

Parts Manual



See "General Information"
for New Parts Manual
Features.

3126B Industrial Engine

BEJ1-Up (Engine)

This Parts Manual is also available in .PDF Format on Compact Disc
(CD-ROM) - Caterpillar Form No. SERP3253

Product and Dealer Information

Note: For product identification plate locations, see the section "Product Identification Information" in the Operation and Maintenance Manual.

Delivery Date: _____

Product Information

Model: _____

Product Identification Number: _____

Engine Serial Number: _____

Transmission Serial Number: _____

Generator Serial Number: _____

Attachment Serial Numbers: _____

Attachment Information: _____

Customer Equipment Number: _____

Dealer Equipment Number: _____

Dealer Information

Name: _____ Branch: _____

Address: _____

Dealer Contact

Phone Number

Hours

Sales: _____

Parts: _____

Service: _____

Informations produit et concessionnaire

Nota: Voir l'emplacement de la plaque signalétique du produit au chapitre "Informations produit" du guide d'utilisation et d'entretien.

Date de livraison: _____

Informations produit

Modèle: _____

Numéro d'identification produit: _____

Numéro de série du moteur: _____

Numéro de série de la boîte de vitesses: _____

Numéro de série de l'alternateur: _____

Numéros de série d'équipement: _____

Informations sur l'équipement: _____

Numéro matériel client: _____

Numéro matériel concessionnaire: _____

Informations concessionnaire

Nom: _____ Agence: _____

Adresse: _____

Contact concessionnaire

Numéro de téléphone

Heures

Ventes: _____

Pièces: _____

Service: _____

Información del Producto/Distribuidor

Nota: Para saber la ubicación de las placas de identificación del producto, ver la sección “Información sobre identificación del producto” en el Manual de Operación y Mantenimiento.

Fecha de entrega: _____

Información del producto

Modelo: _____

Número de identificación del producto: _____

Número de serie del motor: _____

Número de serie de la transmisión: _____

Número de serie del generador: _____

Números de serie de los accesorios: _____

Información sobre los accesorios: _____

Número del equipo del cliente: _____

Número del equipo del distribuidor: _____

Información del distribuidor

Nombre: _____ Sucursal: _____

Dirección: _____

Comunicación con el distribuidor

Número de teléfono

Horas

Ventas: _____

Piezas: _____

Servicio: _____

Informações Sobre Produto e Revendedor

Nota: Para localizações da placa de identificação do produto, consulte a seção, “Informações Sobre Identificação do Produto” no Manual de Operação e Manutenção.

Data de Entrega: _____

Informações Sobre o Produto

Modelo: _____

Número de Identificação do Produto: _____

Número de Série do Motor: _____

Número de Série da Transmissão: _____

Número de Série do Gerador: _____

Números de Série de Acessórios: _____

Informações Sobre Acessórios: _____

Número do Equipamento do Cliente: _____

Número do Equipamento do Revendedor: _____

Informações Sobre o Revendedor

Nome: _____ Filial: _____

Endereço: _____

Contato do Revendedor

Telefone

Horas

Vendas: _____

Peças: _____

Serviço: _____

Produkt- und Händlerinformation

Anmerkung: Für die Lage der Produkt-Identnummer und Seriennummern siehe Abschnitt "Produkt-Identinformation" im Betriebs- und Wartungshandbuch.

Lieferdatum: _____

Produkt-Identinformation

Modell: _____

Produkt-Identnummer: _____

Seriennummer des Motors: _____

Seriennummer des Getriebes: _____

Seriennummer des Generators: _____

Seriennummern der Arbeitsgeräte: _____

Arbeitsgeräteinformation: _____

Kundennummer: _____

Händlernummer: _____

Händlerinformation

Name: _____ Niederlassung: _____

Adresse: _____

Kontaktperson beim Händler

Telefon

Dienststunden

Verkauf: _____

Ersatzteile: _____

Service: _____

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GENERAL INFORMATION

1. ENGINE IDENTIFICATION

Caterpillar engines are identified with Serial Numbers and Arrangement Numbers. In some cases, Modification Numbers are also used. The serial number plate which shows these numbers is mounted on the engine.

Caterpillar dealers need this information to determine which components were included on the engine when it was assembled at the factory. This permits accurate identification of replacement part numbers.

2. ORDERING PARTS

WARNING

When replacement parts are required for this product Caterpillar recommends using Caterpillar replacement parts or parts with equivalent specifications including, but not limited to, physical dimensions, type, strength and material.

Failure to heed this warning can lead to premature failures, product damage, personal injury or death.

Quality Caterpillar replacement parts are available from Caterpillar dealers throughout the world. Their parts inventories are up to date and include all parts normally required to protect your investment in Caterpillar Engines. Dealers may offer repair kits or remanufactured parts to allow selection of the most effective repair alternative for a particular situation. When ordering parts, your order should specify the quantity, part number, part name, and the serial number/product identification number of the engine for which the parts are needed.

3. PARTS MANUAL ORGANIZATION

Product information in this manual is presented as "information elements" that represent all of the components for the specific model. An Engine Arrangement is an example of an information element. The information elements are organized alphabetically by part name and secondarily by part number within each major section of the manual.

4. TABLE OF CONTENTS

New Feature

A table of contents (TOC) is found at the beginning of the manual. The TOC lists each section of the manual with a complete list of all information elements organized as they appear in the manual. Page numbers are provided for quick reference to detailed parts identification illustrations and serviceable consist lists.

5. MAINTENANCE PARTS INDEX

The Maintenance Parts Index, located near the beginning of the manual, references most frequently used maintenance part numbers, providing description, quantity, usage and page number. This information is organized alphabetically by part description.

6. INDEX

The index located near the front of the manual is an alphabetical listing of all information elements included in the manual. Page numbers are provided for quick reference to detailed parts identification illustrations and serviceable consist lists.

7. PART NUMBER INDEX

A numerical index listing all part numbers and the corresponding page number(s) appears at the back of the manual.

8. CAPTIONS

Captions located at the top of each page of an information element identify the part number and part name along with additional descriptive information. S/N information found in each caption should be used to select correct information for a specific engine. Field replacement options, identification of optional attachment components, and where used ("part of") information is also provided.

New Feature

The first line of a caption is shown in larger type font to indicate the beginning of an information element. Captions for additional pages that may be required to illustrate an information element will be shown in standard type font and will include the term (*contd.*)

GENERAL INFORMATION

9. NON-SERVICED PARTS

New Feature

In some instances it is necessary to display non-serviced parts that are a link to lower level serviceable consist lists. These non-serviced part numbers are shown in *italic* type indicating that they are not available. All consist lists have not been converted to reflect this enhancement.

10. PARTS LIST REFERENCE NUMBERS

New Feature

Numbers shown in the Ref No column correspond to numbers used in the associated graphic(s). An alphabetic suffix may be added to a reference number to identify lower level consist items. Numbers shown in the Graphic Ref column refer to the graphic number identifier displayed in the lower left corner of each illustration. The Graphic Ref number may be used in combination with the item Ref No to determine the correct part number. There may be intentional omission of a Ref No in a consist list as information is updated to reflect the latest serviceable part numbers.

11. INDENTED PART NAMES

When a part name is indented in a parts list, it is part of (included in) the group or assembly under which it is indented.

12. ILLUSTRATION REFERENCE LETTERS

When necessary, illustrations contain reference letters (A, B, C etc.) that are intended to track lines and harnesses from one point to another. They are also used to show where to reconnect illustrations that have been separated.

13. ABBREVIATIONS AND SYMBOLS

O.D. – Outside Diameter
I.D. – Inside Diameter
A – Not Part Of This Group
B – Use As Required
C – Change From Previous Type
D – Order By The Meter
E – Order By The Centimeter
F – Not Shown
G – Order By The Inch
I – See Hose Fabrication Guide
M – Metric Part
R – Remfg Part May Be Available
Y – Separate Illustration
Z – Not Serviced Separately

NOTE:

Continuing improvement and advancement of product design may cause changes to your engine which may not be included in this publication. Whenever a question arises regarding your Caterpillar product or this publication, please consult your Caterpillar dealer for the latest available information.

GÉNÉRALITÉS

1. IDENTIFICATION DU MOTEUR

Les moteurs Caterpillar portent des numéros de série et des numéros de version. Dans certains cas, des numéros de modification sont aussi utilisés. Ces numéros figurent sur la plaque de numéro de série qui se trouve sur le moteur.

Les concessionnaires Caterpillar ont besoin de ces renseignements pour déterminer les composants inclus sur le moteur lors de l'assemblage à l'usine. Cela permet d'identifier les numéros de pièces de rechange avec précision.

2. COMMANDE DE PIÈCES



Lorsqu'il faut remplacer des pièces de rechange pour ce produit Caterpillar recommande d'utiliser les pièces de rechange Caterpillar ou les pièces qui ont des spécifications équivalentes dont les dimensions physiques, le type, la force et le matériau. Ces équivalences ne se limitent pas à l'énoncé précédent.

L'observation de cette mise en garde peut entraîner des défaillances prématurées, des dommages au produit, des blessures ou même la mort.

Les concessionnaires Caterpillar fournissent dans le monde entier des pièces de rechange de qualité Caterpillar. Leurs stocks de pièces sont constamment réapprovisionnés et comptent toutes les pièces nécessaires pour assurer la bonne marche de vos moteurs Caterpillar. Certains concessionnaires proposent également des kits de réparation ou des pièces rénovées, ce qui permet de choisir la solution la plus économique dans une situation donnée. Lors des commandes de pièces, mentionner la quantité, le numéro de pièce et la désignation des pièces ainsi que le numéro de série/numéro d'identification (PIN) du moteur pour lequel ces pièces sont requises.

3. ORGANISATION DU CATALOGUE DE PIÈCES

Les renseignements sur les produits sont présentés sous forme de "Information élément" (élément d'information) représentant tous les composants d'un modèle donné. "Engine Arrangement" (version de moteur) est un exemple d'un élément d'information. Les éléments d'information sont classés par ordre alphabétique par la désignation standard des pièces et par numéros de pièces dans chaque partie importante du manuel.

4. TABLE DES MATIÈRES



Nouvelle Caractéristique

La table des matières se trouve au début du manuel. La table des matières fournit la liste de tous les chapitres du manuel avec une liste complète de tous les éléments d'information classés par ordre d'apparition dans le manuel. Les numéros de page sont fournis afin que l'utilisateur puisse trouver rapidement les illustrations détaillées concernant l'identification des pièces et les listes des pièces d'entretien.

5. INDEX DES PIÈCES D'ENTRETIEN

La rubrique "Index des pièces d'entretien" qui se trouve au début du manuel renvoie aux pièces d'entretien les plus fréquemment utilisées en précisant la désignation, la quantité, là où la pièce est utilisée et le numéro de page. Ces pièces sont classés par ordre alphabétique.

6. INDEX

L'index qui se trouve vers le début du manuel est une liste alphabétique de tous les éléments d'information du manuel. Les numéros de page sont fournis afin que l'utilisateur puisse trouver rapidement les illustrations détaillées concernant l'identification des pièces et les listes des pièces d'entretien.

7. INDEX DES NUMÉROS DE PIÈCES

Une liste numérique de tous les numéros de pièces et des pages correspondantes se trouve à la fin du manuel.

8. LÉGENDES

Les légendes qui se trouvent en haut de chaque page de chaque élément d'information fournissent le numéro de pièce, la désignation ainsi que des renseignements supplémentaires sur les pièces. Les renseignements concernant les numéros de série (S/N) qui se trouvent dans chaque légende doivent être utilisés pour sélectionner les informations correctes pour un moteur donné. Les informations concernant les options de remplacement sur le chantier, l'identification des composants des équipements offerts en option et les lieux d'application sont aussi fournies.



Nouvelle Caractéristique

Les lettres de la première ligne d'une légende sont présentées en police plus grande afin d'indiquer le début d'une unité d'information. Les légendes qui pourraient être requises pour des pages supplémentaires afin d'illustrer une unité d'information seront présentées en police standard et comprendront le terme (à suivre).

9. PIÈCES NON FOURNIES



Nouvelle Caractéristique

Dans certains cas, il est nécessaire d'indiquer les pièces non fournies qui sont en aval de la liste des pièces d'entretien. Les numéros des pièces non fournies dans la liste des pièces et les légendes seront en italique pour signaler qu'ils ne sont pas disponibles.

10. NUMÉROS DE RÉFÉRENCE DE LA LISTE DES PIÈCES



Nouvelle Caractéristique

Les numéros indiqués dans la colonne des numéros de références correspondent aux numéros utilisés dans les illustrations auxquelles ils sont associés. Un suffixe alphabétique peut être ajouté à un numéro de référence pour identifier la liste des articles en aval. Les numéros indiqués dans la colonne de référence de l'illustration renvoient à l'identification du numéro affiché dans le coin inférieur gauche de chaque illustration. Le numéro de référence de l'illustration pourrait être utilisé avec le numéro de référence de l'article pour déterminer le numéro de pièce correct. Il peut y avoir une omission intentionnelle d'un numéro de référence dans une liste de pièces suite à la mise à jour des informations en vue de refléter les numéros de pièces les plus récentes.

11. DÉSIGNATIONS DE PIÈCES EN RETRAIT

Lorsqu'une désignation de pièce est en retrait, cela veut dire que l'article en regard fait partie de l'ensemble sous lequel il figure.

12. LETTRES DE RÉFÉRENCE DES ILLUSTRATIONS

Quand cela est nécessaire, les illustrations comportent des lettres de référence (A, B, C, etc.) pour montrer le trajet des canalisations et faisceaux de câbles d'un point à l'autre. Elles sont utilisées également pour indiquer où relier les illustrations séparées auparavant.

13. ABRÉVIATIONS ET SYMBOLES

- O.D. – Diamètre extérieur
- I.D. – Diamètre intérieur
- A – Ne fait pas partie de ce groupe
- B – Utiliser selon besoin
- C – Modification
- D – Commander par mètre
- E – Commander par centimètre
- F – Non représenté
- G – Commander par pouce
- I – Voir "Hose Fabrication Guide"
- M – Pièce métrique
- R – Pièce rénovée éventuellement disponible
- Y – Illustration séparée
- Z – Non fourni séparément

NOTA:

En raison du progrès technique et des améliorations continues apportées au matériel, votre moteur comporte peut-être des modifications qui n'apparaissent pas dans la présente publication. En cas de doute sur un détail de votre moteur Caterpillar ou sur le texte de la présente publication, adressez-vous à votre concessionnaire Caterpillar.

INFORMACIÓN GENERAL

1. IDENTIFICACIÓN DEL MOTOR

Los motores Caterpillar se identifican con Números de Identificación del Producto (PIN). El motor se identifica además con Números de Configuración y en algunos casos, Números de Modificación. Estos números están en las placas de identificación que se encuentran montadas en el motor.

Los distribuidores Caterpillar necesitan esta información para determinar que componentes fueron incluidos en el motor cuando lo ensamblaron en la fábrica. Estos números permiten identificar con exactitud los números de piezas de repuesto.

2. COMO PEDIR REPUESTOS

ADVERTENCIA

Cuando se necesiten piezas de repuesto para este producto, Caterpillar recomienda usar piezas de repuesto Caterpillar o piezas que tengan especificaciones equivalentes incluyendo, pero sin estar limitadas a, dimensiones físicas, tipo, fortaleza y material.

El no hacer caso de esta advertencia puede llevar a fallas prematuras, daños al producto y lesiones graves o mortales.

Las piezas de repuesto Caterpillar de calidad están disponibles de los distribuidores Caterpillar en todo el mundo. Sus existencias actualizadas incluyen todas las piezas normalmente requeridas para proteger su inversión en motores Caterpillar. Los distribuidores pueden tener juegos de reparación o piezas remanufacturadas para permitir la selección de la mejor alternativa de reparación en un caso en particular. Al pedir piezas de repuesto, especifique en su pedido la cantidad, el número de pieza, el nombre de la pieza y el número de serie/número de identificación del producto del motor para la cual se necesitan estas piezas.

3. ORGANIZACION DEL MANUAL DE PIEZAS

La información sobre el producto, se presenta en este manual, como "elementos de información" que representan todos los componentes de un modelo específico. Las configuraciones de motores es un ejemplo de un elemento de información. Los elementos de información están organizados primeramente por nombres de piezas en orden alfabético y en segundo lugar, por el número de pieza dentro de cada sección principal del manual.

4. CONTENIDO

Nueva Característica

La página de Contenido se encuentra al comienzo del manual. El Contenido indica cada sección del manual con una lista completa de todos los elementos de información organizados en el orden que aparecen en el manual. Los números de página proporcionan una referencia rápida a las ilustraciones detalladas de identificación de piezas y a las listas de componentes de repuesto de dichas piezas.

5. INDICE DE PIEZAS DE MANTENIMIENTO

Al frente de este catálogo se encuentra un índice de los números de piezas utilizadas más frecuentemente para el mantenimiento, que incluye descripción, cantidad necesaria, lugar de utilización y número de página. Esta información está organizada alfabéticamente, por descripción de la pieza.

6. ÍNDICE

El Índice, ubicado cerca frente del manual, es una lista en orden alfabético de todos los elementos de información incluidos en el manual. Los números de página proporcionan una referencia rápida a las ilustraciones detalladas de identificación de piezas y a las listas de componentes de repuesto de dichas piezas.

7. INDICE NUMÉRICO DE PIEZAS

Un índice numérico de piezas con el correspondiente número de página aparece al final de este catálogo.

8. TÍTULOS

Los títulos ubicados en la parte superior de cada página de elementos de información identifican el número y el nombre de la pieza junto con información descriptiva adicional para ayudar al usuario a seleccionar información correcta para un motor en particular. También se suministra información sobre las opciones de reparación en el campo, la identificación de componentes de accesorios optativos y el lugar de ubicación de la pieza ("es parte de").

Nueva Característica

La primera línea del título se muestra con un tipo de letra más grande para indicar el comienzo de un elemento de información. Si se requieren páginas adicionales para ilustrar un elemento de información, los títulos se muestran con un tipo de letra normal y la continuación se indica entre paréntesis.

INFORMACIÓN GENERAL

9. PIEZAS QUE NO SE SUMINISTRAN COMO REPUESTO

Nueva Característica

En algunos casos es necesario indicar piezas que no se suministran como repuesto pero que pueden estar conectadas a listas de componentes de otras piezas de repuesto. En tal caso, dichas piezas se muestran en cursiva para indicar que no son piezas disponibles.

10. NÚMEROS DE REFERENCIA

Nueva Característica

Los números en la columna de No. de Referencia corresponden a los números indicados en la ilustración que pertenece a ese número de pieza. Los números que tienen un sufijo alfabético identifican artículos de las listas de componentes de piezas. Los números en la columna de Referencia de la ilustración se identifican en la esquina inferior izquierda de cada ilustración. Para determinar el número correcto de pieza se puede utilizar tanto el No. de Referencia de la ilustración como el No. de Referencia del artículo. A medida que se actualiza la información para indicar los más recientes números de piezas de repuesto, puede omitirse intencionalmente un No. de Referencia en una lista de componentes de piezas.

11. NOMBRES DE PIEZA SANGRADOS

Cuando el nombre de una pieza está sangrado en una lista, significa que esta pieza forma parte del grupo o conjunto del renglón inmediatamente superior.

12. LETRAS DE REFERENCIA DE ILUSTRACIONES

Las ilustraciones contienen algunas veces letras de referencia (A, B, C etc.) cuyo propósito es seguir el trayecto de líneas y mazos de cables de un punto a otro. También se utilizan para mostrar dónde volver a unir ilustraciones que se habían separado.

13. ABREVIATURAS Y SIMBOLOS

O.D. – Diámetro exterior

I.D. – Diámetro interior

A – No es pieza de este grupo

B – Utilizado según la demanda

C – Indica cambio

D – Se pide por metro

E – Se pide por centímetro

F – No se muestra

G – Se pide por pulgada

I – Ver "Hose Fabrication Guide"

M – Pieza métrica

R – Puede estar disponible como pieza remanufacturada

Y – Ilustración separada

Z – No se suministra por separado

NOTA:

Las continuas mejoras y adelantos en diseño podrían originar cambios a su motor que no se incluyen en esta publicación. Cuando tenga alguna pregunta acerca de su producto Caterpillar o de esta publicación, consulte al distribuidor Caterpillar para obtener la información más reciente.

INFORMAÇÃO GERAL

1. IDENTIFICAÇÃO DO MOTOR

Os motores Caterpillar são identificadas pelos Números de Série e Números de Arranjo. Em alguns casos, Números de Modificação são também usados. A placa do número de série que exibe esses números encontra-se no motor.

Os revendedores Caterpillar necessitam destas informações para determinar que componentes foram incluídos no motor durante a montagem na fábrica. Isto facilita a identificação precisa dos números de peça de reposição.

2. COMO OBTER PEÇAS



Quando peças de substituição são exigidas para este produto, a Caterpillar recomenda a utilização de peças de substituição Caterpillar ou peças com as especificações equivalentes incluindo, mas não limitadas, à dimensões físicas, tipos, resistência e materiais.

A inobservância desta advertência poderá resultar em falhas prematuras, danos ao produto, ferimentos ou morte.

As Peças de Reposição de Qualidade Caterpillar encontram-se disponíveis nos revendedores Caterpillar no mundo inteiro. Seus estoques de peças são atualizados e incluem todas as peças normalmente necessárias para proteger seu investimento em motores Caterpillar. Alguns revendedores podem oferecer jogos de reparo ou peças de troca/remanufaturadas disponíveis como uma opção da alternativa de reparo mais eficaz para uma situação específica. Ao encomendar peças, seu pedido deve especificar a quantidade, o número e o nome da peça e o número de série/número de identificação do produto referentes ao motor para o qual as peças se destinam.

3. ORGANIZAÇÃO DO MANUAL DE PEÇAS

A informação do produto neste manual é apresentada em forma de "elementos de informação" que representam todos os componentes para o modelo específico. O Arranjo de Motor é um exemplo de elemento de informação. Os elementos de informação são organizados em ordem alfabética por nome de peça ou, secundariamente, por número de peça incluído em cada seção principal do manual.

4. LISTA DE CONTEÚDOS



A Lista de Conteúdos (TOC) se encontra no princípio do manual. A Lista de Conteúdos (TOC) relaciona em cada seção do manual uma lista completa com todos os elementos de informação organizados conforme aparecem no manual. Números de página são fornecidos para que se tenha referência rápida de ilustrações de peças detalhadas e listas de conteúdos que podem receber serviço de manutenção.

5. ÍNDICE DE PEÇAS DE MANUTENÇÃO

O Índice de Peças de Manutenção, localizado perto do princípio do manual, faz referência aos números de peça de manutenção usados com maior frequência, fornecendo uma descrição, a quantidade, o uso e o número de página. Esta informação é organizada com a descrição da peça em ordem alfabética.

6. ÍNDICE

O Índice localizado perto do princípio do manual, consiste de uma lista em ordem alfabética de todos os elementos de informação incluídos no manual. Números de página são fornecidos para que se tenha referência rápida de ilustrações de peças detalhadas e listas de conteúdos que podem receber serviço de manutenção.

7. ÍNDICE DE NÚMERO DE PEÇA

Um índice numérico relacionando todos os números de peça e a(s) página(s) correspondentes, aparece no final do manual.

8. LEGENDAS

As legendas localizadas na parte de cima de cada página de um elemento de informação identifica o número de peça e o nome da peça, juntamente com informação descritiva adicional. Informações sobre o Número de Série (S/N) encontradas em cada legenda devem ser usadas para selecionar a informação correta sobre um motor específico. Opções de substituição no campo, identificação de componentes de acessórios opcionais e informações sobre onde são utilizados ("parte de") são também fornecidas.

INFORMAÇÃO GERAL

Novidades

A primeira linha de uma legenda é indicada em tipo maior para indicar o princípio de um elemento de informação. Legendas para páginas adicionais que podem ser necessárias para ilustrar um elemento de informação serão apresentadas em tipo padrão e incluirão o termo (*continua*) .

9. NÃO DISPONÍVEL SEPARADAMENTE

Novidades

Em alguns casos, é necessário mostrar peças não disponíveis separadamente que têm uma ligação com listas de conteúdos de nível inferior que podem receber serviço de manutenção. Os números de peça destes componentes não disponíveis aparecerão em *italico* , a fim de indicar que não estão disponíveis.

10. NÚMEROS DE REFERÊNCIA À LISTA DE PEÇAS

Novidades

Os números indicados na coluna Ref No (No. de Referência) correspondem-se aos números usados no(s) gráfico(s) correspondente(s). Um sufixo com letras pode ser acrescentado a um número de referência para identificar itens de conteúdo de nível inferior. Os números indicados na coluna Graphic Ref (Referência de Gráfico) referem-se ao identificador de número de gráfico presente no canto esquerdo inferior de cada ilustração. O número de Referência de Gráfico pode ser usado em combinação com o item Ref No para determinar-se o número de peça correto. Poderá haver omissão intencional de um número de referência (Ref No) de uma lista de conteúdos uma vez que as informações são atualizadas para refletir os números de peça mais recentes que podem receber serviço de manutenção.

11. NOMES DE PEÇAS DESALINHADOS

Quando um nome de peça encontra-se desalinhado numa lista de peças, significa que tal item faz parte do (está incluído no) grupo ou conjunto sob o qual está relacionado.

12. LETRAS DE REFERÊNCIA NAS ILUSTRAÇÕES

Quando necessário, as ilustrações contêm letras de referência (A, B, C, etc.) que são utilizadas para seguir tubulações e cabos elétricos de um ponto a outro. Também foram utilizadas para indicar onde se pode reconectar as ilustrações que foram separadas.

13. ABREVIÇÕES E SÍMBOLOS

- O.D. – "Outside Diameter" (Diâmetro Externo)
- I.D. – "Inside Diameter" (Diâmetro Interno)
- A – Não faz parte deste grupo
- B – Use conforme necessário
- C – Indica modificação
- D – Vendido por metro
- E – Vendido por centímetro
- F – Não ilustrado
- G – Vendido por polegada
- I – Consulte o seu revendedor quanto a mangueira
- M – Peça métrica
- R – Peça remanufaturada pode estar disponível; consulte o seu revendedor Cat
- Y – Ilustração separada
- Z – Não disponível separadamente

NOTA:

Os contínuos aperfeiçoamentos e avanços no projeto do produto podem ocasionar modificações em seu motor que talvez ainda não estejam incluídas nesta publicação. Sempre que surgirem dúvidas quanto a um produto Caterpillar ou quanto à presente publicação, consulte o seu revendedor Caterpillar para obter as informações mais recentes disponíveis.

ALLGEMEINE HINWEISE

1. MOTORENKENNZEICHNUNG

Caterpillar-Motoren sind mit SERIAL NUMBERS (Seriennummern) und ARRANGEMENT NUMBERS (Ausführungsnummern) gekennzeichnet. In einigen Fällen werden auch MODIFICATION NUMBERS (Änderungsnummern) erteilt. Diese Nummern befinden sich auf dem Typenschild des Motors.

Die Caterpillar-Händler benötigen diese Nummern, um festzustellen, welche Bauteile bei der Montage des Motors verwendet wurden. Dies ermöglicht das Auffinden der richtigen Ersatzteilnummern.

2. BESTELLEN VON ERSATZTEILEN

WARNUNG

Wenn für diese Maschine Ersatzteile benötigt werden, empfiehlt Caterpillar, ausschließlich Caterpillar-Ersatzteile oder solche zu verwenden, die die gleichen technischen Merkmale hinsichtlich Typ, Festigkeit, Werkzeugeigenschaften und die gleichen Maße aufweisen.

Bei Nichtbeachtung dieser Warnung besteht Verletzungs- oder sogar Lebensgefahr! Ferner kann Nichtbeachtung vorzeitige Ausfälle der Teile und Beschädigung der Maschine zur Folge haben.

Original Caterpillar-Ersatzteile können weltweit bei jedem Caterpillar-Händler bestellt werden. Die umfangreichen Händlerlager enthalten normalerweise alle Teile, die Sie für Ihren Caterpillar-Motor benötigen. Einige Händler bieten Reparatursätze, Austausch- oder werküberholte Teile an, so daß Sie eine Auswahl unter verschiedenen Reparaturmöglichkeiten treffen können. Ihre Bestellung muß folgende Angaben enthalten: Anzahl der benötigten Teile, Bestellnummer, Bezeichnung des Teils und Serien-Nr./Produkt-Ident-Nr. des Motors, für den diese Teile benötigt werden.

3. AUFBAU DES PARTS MANUAL

Die Produktinformationen für alle Komponenten eines bestimmten Modells sind in INFORMATION ELEMENTS (Informationseinheiten) gegliedert. ENGINE ARRANGEMENT (Motorausführung) ist ein Beispiel für solche Informationseinheiten. Sie sind innerhalb jeder Gruppe alphabetisch, entsprechend der Ersatzteilbezeichnung, und zusätzlich numerisch, entsprechend der Ersatzteilnummer, geordnet.

4. INHALTSVERZEICHNIS

Neu im Parts Manual

Das Inhaltsverzeichnis befindet sich am Anfang des Buches. Im Inhaltsverzeichnis werden die einzelnen Abschnitte des Buches aufgeführt. Die Abschnitte enthalten eine vollständige Aufstellung aller Informationseinheiten. Diese sind entsprechend ihrem Erscheinen im Buch geordnet. Das Inhaltsverzeichnis enthält Seitenangaben für Schnellverweise auf detaillierte Abbildungen und Teillisten.

5. INDEX FÜR WARTUNGSTEILE

Der Index für Wartungsteile vorn im Buch enthält die Bestellnummern, Seitenangaben, Mengenangaben und Informationen über den Einsatzbereich für die am häufigsten benötigten Ersatzteile. Die Angaben sind alphabetisch entsprechend der Teilebezeichnung geordnet.

6. INDEX

Der Index vorn im Buch enthält eine alphabetische Liste aller Informationseinheiten. Er enthält Seitenangaben für Schnellverweise auf detaillierte Abbildungen und Teillisten.

7. INDEX FÜR BESTELLNUMMERN

Hinten im Buch befindet sich ein numerischer Index, mit allen Bestellnummern und dem Hinweis auf die Seite, auf der sich die betreffende Abbildung befindet.

8. ÜBERSCHRIFTEN

Die Überschriften, die sich oben auf den Seiten der Informationseinheiten befinden, enthalten Bestellnummern, Ersatzteilbezeichnungen und zusätzliche beschreibende Informationen. Die Seriennummern in den Überschriften sollten zur Auswahl der richtigen Informationen für den betreffenden Motor verwendet werden. Die Überschriften enthalten außerdem Informationen über möglichen Außendienstersatz, mögliche Baugerätekomponenten und die Baugruppe, zu der das Teil gehört.

Neu im Parts Manual

Die erste Zeile einer Überschrift erscheint in einer größeren Schriftart, um den Anfang einer Informationseinheit zu kennzeichnen. Überschriften für zusätzliche Seiten, die zur Erläuterung einer Informationseinheit notwendig sind, erscheinen in normaler Schriftart und enthalten den Begriff "(contd.)".

ALLGEMEINE HINWEISE

9. NICHT EINZELN LIEFERBARE TEILE



Neu im Parts Manual

In einigen Fällen ist es notwendig nicht lieferbare Teile, die selbst mit einer eigenen Teilliste im Buch vertreten sind, aufzuführen. Die Bestellnummern dieser nicht einzeln lieferbaren Teile erscheinen kursiv, wodurch angezeigt wird, daß sie nur in Verbindung mit anderen Teilen lieferbar sind.

10. REFERENZNUMMER FÜR ERSATZTEILE



Neu im Parts Manual

Die Zahlen, die in der Spalte "Ref No" aufgeführt sind, stimmen mit den Zahlen in den beigefügten Abbildungen überein. Ein Buchstaben-Suffix kann zu einer Referenznummer hinzugefügt werden, um zu kennzeichnen, daß das Teil mit einer eigenen Teilliste im Buch aufgeführt ist. Die in der Spalte "Graphic Ref" angeführten Zahlen verweisen auf die Identifikationsnummer der Abbildung, die sich in der linken unteren Ecke der Abbildung befindet. Diese Nummer kann zusammen mit der Referenznummer des Teils angegeben werden, um die richtige Ersatzteilnummer zu ermitteln. Referenznummern können absichtlich weggelassen werden, da die Nummern der lieferbaren Ersatzteile ständig aktualisiert werden.

11. EINGERÜCKTE BEZEICHNUNGEN

Wenn eine Bezeichnung eingerückt ist, wird dadurch angezeigt, daß das Teil zu einer Baugruppe gehört, unter deren Bezeichnung es eingerückt ist.

12. REFERENZBUCHSTABEN

Falls erforderlich sind in den Abbildungen Referenzbuchstaben enthalten (z.B. A, B, C, usw.), die Leitungen und Kabelbäume von einem Punkt zum anderen verfolgen. Außerdem geben sie die Stelle an, an der getrennte Abbildungen fortgesetzt werden.

13. ABKÜRZUNGEN UND SYMBOLE

O.D. – Außendurchmesser

I.D. – Innendurchmesser

A – kein Teil dieser Gruppe

B – nach Bedarf verwenden

C – Hinweis auf eine Änderung

D – in Meter-Länge bestellen

E – in Zentimeter-Länge bestellen

F – nicht gezeigt

G – in Zoll-Länge bestellen

I – siehe "Hose Fabrication Guide"

M – metrisches Teil

R – werküberholtes Teil unter Umständen lieferbar

Y – separate Abbildung

Z – nicht einzeln lieferbar

ANMERKUNG:

Ständig vorgenommene Verbesserungen und Weiterentwicklungen an Ihrem Motor können Änderungen verursachen, die in der vorliegenden Ausgabe noch nicht berücksichtigt sind. Fragen zu Ihrem Caterpillar-Motor oder diesem Ersatzteillbuch beantwortet Ihr Caterpillar-Händler.

REPAIR ALTERNATIVES

REMANUFACTURED COMPONENTS

As an option when making repairs consider Caterpillar Remanufactured Components. Components that are available through the Caterpillar Remanufactured Program are identified three ways in the parts book:

- with the letter R in the note field of the parts list
- with an R* at the beginning of the first line of the caption
- with an *R at the end of the first line of the caption

Typical components included in the Remanufacturing Program include:

ALTERNATORS
CONNECTING RODS
CRANKSHAFTS - UNDERSIZE
CRANKSHAFTS - UPGRADE TO NEW
CYLINDER HEADS
ELECTRONIC CONTROL MODULES (ECM)
ELECTRONIC SENSORS
FUEL INJECTORS
FUEL NOZZLES
FUEL PUMPS
GOVERNORS
OIL PUMPS
PISTONS
SHORT BLOCKS
STARTERS
TURBOCHARGERS - COMPLETE
TURBOCHARGER CARTRIDGES
WATER PUMPS

Caterpillar Remanufactured engines for many engine arrangements are also available.

OPTIONS DE RÉPARATION

COMPOSANTS RÉNOVÉS

Comme option de réparation, considérer les composants rénovés Caterpillar. Les composants disponibles dans le cadre du programme Caterpillar de composants rénovés sont identifiés de trois façons dans le catalogue de pièces:

- avec la lettre "R" dans l'espace note de la liste des pièces
- avec R* au début de la première ligne des légendes
- avec *R à la fin de la première ligne des légendes

Les composants suivants figurent parmi les composants typiques du programme de rénovation:

ALTERNATEURS
BIELLES
VILEBREQUINS - SOUS-DIMENSIONNÉS
VILEBREQUINS - REMIS À NEUF
CULASSES
MODULES DE COMMANDE ÉLECTRONIQUE (ECM)
CAPTEURS ÉLECTRONIQUES
INJECTEURS
TÊTES D'INJECTEURS
POMPES À CARBURANT
RÉGULATEURS
POMPES À HUILE
PISTONS
BLOCS EMBIELLÉS
DÉMARREURS
TURBOCOMPRESSEURS - COMPLETS
CARTOUCHES DE TURBOCOMPRESSEUR
POMPES À EAU

Des moteurs rénovés sont aussi disponibles pour plusieurs versions de moteur.

ALTERNATIVAS DE REPARACIÓN

COMPONENTES REMANUFACTURADOS

Al hacer reparaciones, tenga en cuenta la opción de Componentes Remanufacturados Caterpillar. Los componentes que están disponibles por medio del programa de Productos Remanufacturados Caterpillar se identifican de tres maneras en el manual de piezas:

- con la letra R en el espacio de Nota de la lista de piezas
- con una R* al comienzo de la primera línea de la leyenda
- con una *R al final de la primera línea de la leyenda

Los componentes que se incluyen típicamente en el Programa de Productos Remanufacturados son:

ALTERNADORES
BIELAS
CIGÜEÑALES - BAJOMEDIDA
CIGÜEÑALES - REMANUFACTURADOS A NUEVO
CULATAS
MÓDULOS DE CONTROL ELECTRÓNICO (ECM)
SENSORES ELECTRONICOS
INYECTORES
BOQUILLAS
BOMBAS DE COMBUSTIBLE
REGULADORES
BOMBAS DE ACEITE
PISTONES
MONOBLOQUES
MOTORES DE ARRANQUE
TURBOCOMPRESORES - COMPLETOS
NÚCLEOS DE TURBOCOMPRESOR
BOMBAS DE AGUA

También hay disponibles motores Remanufacturados Caterpillar para muchas de las configuraciones de motores.

ALTERNATIVAS DE REPARO

COMPONENTES REMANUFATURADOS

Considere o uso de Componentes Remanufaturados Caterpillar ao efetuar reparos. Os componentes disponíveis através do Programa de Remanufatura Caterpillar são identificados de três formas no manual de peças:

- com um R na área da nota da lista de peças
- com um R* no princípio da primeira linha da legenda
- com um *R no final da primeira linha da legenda

Os componentes típicos que constam no Programa de Remanufatura incluem:

ALTERNADORES
BIELAS
VIRABREQUINS - SUBMEDIDAS
VIRABREQUINS - ATUALIZAÇÃO
CABEÇOTES
MÓDULOS DE CONTROLE ELETRÔNICO (ECM)
SENSORES ELETRÔNICOS
INJETORES DE COMBUSTÍVEL
BICOS DE ABASTECIMENTO DE COMBUSTÍVEL
BOMBAS DE COMBUSTÍVEL
GOVERNADORES
BOMBAS DE ÓLEO
PISTÕES
BLOCOS BÁSICOS DO MOTOR
MOTORES DE PARTIDA
TURBOALIMENTADORES - COMPLETOS
CARTUCHOS DE TURBOALIMENTADORES
BOMBAS D'ÁGUA

Motores Remanufaturados Caterpillar também encontram-se disponíveis para diversos arranjos de motor.

REPARATURALTERNATIVEN

WERKÜBERHOLTE AT-PRODUKTE

Bei Reparaturen sollten werküberholte AT-Produkte von Caterpillar in Betracht gezogen werden. Die durch das AT-Programm von Caterpillar erhältlichen Teile sind im Parts Book auf drei verschiedene Arten gekennzeichnet:

- mit dem Buchstaben R in der Spalte NOTE der Ersatzteilliste
- mit einem R* am Anfang der ersten Zeile der Überschrift
- mit einem *R am Ende der ersten Zeile der Überschrift

Das AT-Programm umfaßt u.a. folgende Produkte:

DREHSTROMGENERATOREN
PLEUELSTANGEN
KURBELWELLEN - MIT UNTERMASSE
KURBELWELLEN - MIT ORIGINALMASSE
ZYLINDERKÖPFE
ELEKTRONISCHE STEUEREINHEITEN (EMC)
ELEKTRONISCHE SENSOREN
PUMPENDÜSEN
EINSPRITZDÜSEN
KRAFTSTOFFPUMPEN
DREHZAHLREGLER
ÖLPUMPEN
KOLBEN
TEILMOTOREN
ANLASSER
TURBOLADER - KOMPLETT
TURBOLADERLAUFZEUGE
KÜHLWASSERPUMPEN

Viele Motoren können durch werküberholte AT-Motoren von Caterpillar ersetzt werden.

SUPPLEMENTAL COOLANT ADDITIVES

CUSTOMER BENEFITS:

Protects against cavitation, foam, erosion, corrosion, and scale buildup in cooling systems.

- Provides measured coolant conditioner.

DESCRIPTION:

Additives deplete from the coolant with normal operation. For this reason, Supplemental Coolant Additives (SCA) must be added to all heavy duty coolants at regular intervals. In addition, when not using a fully formulated, pre-charged antifreeze, like Caterpillar's DEAC, an initial charge of SCA must be added to the cooling system. The amount of SCA added to the system is dependent on the capacity of the system.

The SCA for initial fill is provided as a liquid. SCA's for maintenance intervals are available in liquid form and as a spin-on element. (No Spin-on available for 3600 Family of Engines)

NOTE:

The amount of SCA added at initial fill is not the same as the amount added at maintenance intervals.

The coolant additive elements can be used with any ethylene or propylene glycol type antifreeze which meets ASTM D4985 or ASTM D5345 Specifications.

NOTE:

For use with standard heavy duty coolant only, not for use with Extended Life Coolant.

PARTS NEEDED:

Cooling System Capacity		Liquid SCA at Initial Fill	Liquid SCA at Maintenance*	Spin-on SCA Maintenance Element*
Liters	Gallons			
22-30	(6-8)	3P-2044 (1)	6V-3542 (1)	111-2370 (1)
30-38	(8-10)	3P-2044 (1) 6V-3542 (1)	111-2372 (1)	111-2369 (1)
38-49	(10-13)	3P-2044 (1) 8T-1589 (1)	111-2372 (1)	111-2369 (1)
49-64	(13-17)	3P-2044 (2)	8T-1589 (1)	9N-3368 (1)
64-83	(17-22)	3P-2044 (2) 8T-1589 (1)	111-2372 (1) 6V-3542 (1)	111-2371 (1)
83-114	(22-30)	3P-2044 (3) 8T-1589 (1)	3P-2044 (1)	9N-3718 (1)
114-163	(30-43)	3P-2044 (5)	3P-2044 (1) 6V-3542 (1)	111-2371 (2)
163-242	(43-64)	3P-2044 (8)	3P-2044 (2)	9N-3718 (2)

* Normal maintenance period is 250 hrs. See your Operation and Maintenance Manual for complete coolant maintenance instructions.

() Indicates quantity required.

ADDITIFS POUR LIQUIDE DE REFROIDISSEMENT

AVANTAGES POUR LE CLIENT

L'additif protège contre la cavitation, la mousse, l'érosion, la corrosion et l'accumulation de dépôts dans le circuit de refroidissement.

- L'additif complémentaire fournit une quantité mesurée d'additif.

DESCRIPTION:

Les additifs s'épuisent pendant l'utilisation du moteur. C'est pourquoi l'on doit ajouter de l'additif au liquide de refroidissement/antigel pour moteurs diesel à intervalles réguliers. En plus, si l'on n'utilise pas de l'antigel entièrement formulé et pré-chargé comme le liquide de refroidissement/antigel Caterpillar pour moteurs diesel, une quantité initiale d'additif doit être ajoutée au circuit de refroidissement. La quantité d'additif à ajouter au circuit dépend de la contenance du circuit.

L'additif pour le remplissage initial est fourni sous forme liquide. L'additif pour l'entretien ultérieur est disponible sous forme liquide et sous forme d'élément à visser. (Il n'y a pas d'élément à visser pour les moteurs de la famille 3600).

NOTA:

La quantité d'additif à ajouter au remplissage initial diffère de la quantité à ajouter aux intervalles d'entretien.

Les éléments d'additif peuvent être utilisés avec tout antigel de type éthylène ou propylène-glycol conforme à la norme ASTM D4985 ou ASTM D5345.

NOTA:

A utiliser uniquement avec du liquide de refroidissement pour moteurs diesel et non avec le liquide de refroidissement longue durée.

PIÈCES NÉCESSAIRES:

Contenance du circuit de refroidissement		Additif liquide au remplissage initial	Additif liquide aux intervalles d'entretien*	Élément d'additif à visser aux intervalles d'entretien*
Litres	Gallons U.S.			
22-30	(6-8)	3P-2044 (1)	6V-3542 (1)	111-2370 (1)
30-38	(8-10)	3P-2044 (1) 6V-3542 (1)	111-2372 (1)	111-2369 (1)
38-49	(10-13)	3P-2044 (1) 8T-1589 (1)	111-2372 (1)	111-2369 (1)
49-64	(13-17)	3P-2044 (2)	8T-1589 (1)	9N-3368 (1)
64-83	(17-22)	3P-2044 (2) 8T-1589 (1)	111-2372 (1) 6V-3542 (1)	111-2371 (1)
83-114	(22-30)	3P-2044 (3) 8T-1589 (1)	3P-2044 (1)	9N-3718 (1)
114-163	(30-43)	3P-2044 (5)	3P-2044 (1) 6V-3542 (1)	111-2371 (2)
163-242	(43-64)	3P-2044 (8)	3P-2044 (2)	9N-3718 (2)

* L'intervalle d'entretien normal est de 250 heures-service. Voir le Guide d'utilisation et d'entretien pour de plus amples renseignements concernant l'entretien du circuit de refroidissement.

() Indique la quantité exigée.

ADITIVOS DE REFRIGERANTE SUPLEMENTARIOS

VENTAJAS PARA EL USUARIO:

Protegen contra la cavitación, la formación de espuma, la corrosión y la acumulación de escamas en los sistemas de enfriamiento.

- Suministra un acondicionador dosificado de refrigerante.

DESCRIPCIÓN:

Los aditivos en el refrigerante se agotan con la operación normal. Por esta razón, se debe agregar Aditivo de refrigerante suplementario (SCA) a todos los refrigerantes para servicio pesado, a intervalos regulares. Además, cuando no se usa un anticongelante de precarga completo, tal como el DEAC de Caterpillar, es necesario agregar una cantidad de aditivo de refrigerante suplementario inicial al sistema de enfriamiento. La cantidad de aditivo que se debe agregar depende de la capacidad del sistema.

El SCA de llenado inicial es líquido. El que se usa para el mantenimiento está disponible tanto en líquido como en un elemento enroscable. (No hay elemento enroscable disponible para la Familia de Motores 3600).

NOTA:

La cantidad de aditivo de llenado inicial no es la misma que se agrega en los intervalos de mantenimiento.

Los elementos de aditivo de refrigerante se pueden usar con cualquier anticongelante de tipo glicol etilénico o propílico que esté de acuerdo con las especificaciones de las normas ASTM D4985 o ASTM D5345.

NOTA:

Se debe utilizar únicamente con refrigerante estándar para servicio pesado; no se debe usar con Refrigerante de Larga Duración.

PIEZAS NECESARIAS:

Capacidad del Sistema de Enfriamiento		SCA líquido de llenado inicial	SCA líquido de mantenimiento*	Elemento de mantenimiento enroscable*
litros	gal EE.UU.			
22-30	6-8	3P-2044 (1)	6V-3542 (1)	111-2370 (1)
30-38	8-10	3P-2044 (1) 6V-3542 (1)	111-2372 (1)	111-2369 (1)
38-49	10-13	3P-2044 (1) 8T-1589 (1)	111-2372 (1)	111-2369 (1)
49-64	13-17	3P-2044 (2)	8T-1589 (1)	9N-3368 (1)
64-83	17-22	3P-2044 (2) 8T-1589 (1)	111-2372 (1) 6V-3542 (1)	111-2371 (1)
83-114	22-30	3P-2044 (3) 8T-1589 (1)	3P-2044 (1)	9N-3718 (1)
114-163	30-43	3P-2044 (5)	3P-2044 (1) 6V-3542 (1)	111-2371 (2)
163-242	43-64	3P-2044 (8)	3P-2044 (2)	9N-3718 (2)

* El período normal de mantenimiento es de 250 horas. Para ver las instrucciones completas sobre el mantenimiento del refrigerante, consulte el Manual de Operación y Mantenimiento.

() Indica la cantidad necesaria.

ADITIVOS SUPLEMENTARES DO LÍQUIDO ARREFECEDOR

BENEFÍCIOS PARA O CLIENTE:

Protege contra cavitação, espuma, erosão, corrosão e acúmulo de crostas nos sistemas de arrefecimento.

- Fornece uma quantidade pré-determinada de condicionador de arrefecimento.

DESCRIÇÃO:

Com a operação normal, os aditivos se esgotam do líquido arrefecedor. Por isso, Aditivos Suplementares do Líquido Arrefecedor (SCA) devem ser acrescentados a todos os líquidos arrefecedores para serviço pesado em intervalos regulares. Além disso, quando um anticongelante pré-carregado, totalmente formulado não for usado, como o DEAC Caterpillar, uma carga inicial de SCA deve ser acrescentada ao sistema de arrefecimento. A quantidade de SCA acrescentada ao sistema depende da capacidade do sistema.

O SCA para abastecimento inicial é fornecido em forma de líquido. Os aditivos suplementares (SCA) para intervalos de manutenção estão à disposição em forma líquida e como um elemento com roscas. (Exceto os Motores da Família 3600)

NOTA:

A quantidade de SCA adicionada no abastecimento inicial não é a mesma que a acrescentada nos intervalos de manutenção.

Os elementos do aditivo do líquido arrefecedor podem ser usados com qualquer tipo de anticongelante etileno ou propileno que satisfaz as Especificações ASTM D4985 ou ASTM D5345.

NOTA:

Para uso apenas com líquido arrefecedor para serviço pesado padrão, não deve ser usado com Líquido Arrefecedor de Vida Longa.

PEÇAS NECESSÁRIAS:

Capacidade do Sistema de Arrefecimento		Líquido SCA Durante Abastecimento Inicial	Líquido SCA Durante Manutenção*	Elemento de Manutenção de SCA com Roscas*
Litros	Galões			
22-30	6-8	3P-2044 (1)	6V-3542 (1)	111-2370 (1)
30-38	8-10	3P-2044 (1) 6V-3542 (1)	111-2372 (1)	111-2369 (1)
38-49	10-13	3P-2044 (1) 8T-1589 (1)	111-2372 (1)	111-2369 (1)
49-64	13-17	3P-2044 (2)	8T-1589 (1)	9N-3368 (1)
64-83	17-22	3P-2044 (2) 8T-1589 (1)	111-2372 (1) 6V-3542 (1)	111-2371 (1)
83-114	22-30	3P-2044 (3) 8T-1589 (1)	3P-2044 (1)	9N-3718 (1)
114-163	30-43	3P-2044 (5)	3P-2044 (1) 6V-3542 (1)	111-2371 (2)
163-242	43-64	3P-2044 (8)	3P-2044 (2)	9N-3718 (2)

* O período normal de manutenção é de 250 horas. Consulte o Manual de Operação e Manutenção para obter instruções completas quanto à manutenção do líquido arrefecedor.

() Indica a quantidade exigida.

KÜHLMITTELZUSATZ

VORTEILE FÜR DEN KUNDEN:

Schutz gegen Kavitation, Schaumbildung, Erosion, Korrosion und Kesselsteinbildung in Kühlsystemen.

- Richtig dosierter Kühlmittelzusatz

BESCHREIBUNG:

Additive erschöpfen sich während des Motorbetriebs. Deshalb muß allen HD-Kühlmitteln regelmäßig Kühlmittelzusatz beigefügt werden. Wenn bei Erstfüllung kein vollwertiges Fertigmittel, wie das Frostschutz- und Kühlmittel für Dieselmotoren von Caterpillar (DEAC), verwendet wird, muß bei Erstfüllung Kühlmittelzusatz beigefügt werden. Wieviel Kühlmittelzusatz beigefügt werden muß, hängt vom Inhalt des Kühlsystems ab.

Für Erstfüllung ist Kühlmittelzusatz nur in flüssiger Form erhältlich. Für Wartungsintervalle ist Kühlmittelzusatz in flüssiger Form und als Zusatzelement erhältlich. (Für die Motorbaureihe 3600 sind keine Zusatzelemente erhältlich.)

ANMERKUNG:

Die Kühlmittelmenge bei Erstfüllung ist nicht die gleiche Menge, die bei Wartungsintervallen beigefügt werden muß.

Die Kühlmittelzusatzelemente können mit allen Frostschutzmitteln auf Ethylen- oder Propylenglykolbasis verwendet werden, die den Standards nach ASTM D4985 oder ASTM D5345 entsprechen.

ANMERKUNG:

Den Kühlmittelzusatz nicht mit Langzeitkühlmittel (ELC) von Caterpillar verwenden. Der Kühlmittelzusatz ist nur für HD-Kühlmittel bestimmt.

TEILEBEZEICHNUNG:

Kühlsysteminhalt		Kühlmittelzusatz bei Erstfüllung	Flüssiger Kühlmittelzusatz bei Wartung*	Kühlmittelzusatzelement bei Wartung*
Liter	US-Gall.			
22-30	(6-8)	3P-2044 (1)	6V-3542 (1)	111-2370 (1)
30-38	(8-10)	3P-2044 (1) 6V-3542 (1)	111-2372 (1)	111-2369 (1)
38-49	(10-13)	3P-2044 (1) 8T-1589 (1)	111-2372 (1)	111-2369 (1)
49-64	(13-17)	3P-2044 (2)	8T-1589 (1)	9N-3368 (1)
64-83	(17-22)	3P-2044 (2) 8T-1589 (1)	111-2372 (1) 6V-3542 (1)	111-2371 (1)
83-114	(22-30)	3P-2044 (3) 8T-1589 (1)	3P-2044 (1)	9N-3718 (1)
114-163	(30-43)	3P-2044 (5)	3P-2044 (1) 6V-3542 (1)	111-2371 (2)
163-242	(43-64)	3P-2044 (8)	3P-2044 (2)	9N-3718 (2)

* Der normale Wartungsintervall beträgt 250 Betriebsstunden. Für vollständige Anweisungen zur Wartung des Kühlsystems, siehe Betriebs- und Wartungshandbuch.

() Erforderliche Anzahl

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
AIR INLET AND EXHAUST SYSTEM				
FILTER ELEMENT AS-PRIMARY AIR	6I -2501	1	AIR CLEANER GP	307
	6I -2509	1	AIR CLEANER GP	309
FILTER ELEMENT AS-SEC AIR	6I -2502	1	AIR CLEANER GP	307
	6I -2510	1	AIR CLEANER GP	309
INDICATOR-AIR FILTER SERVICE	1W -0613	1	INDICATOR GP-AIR FILTER CHANGE	326
	8N -2694	1	AIR CLEANER GP	310
BASIC ENGINE				
BELT	171 -4679	1	PULLEY GP	180
BELT-RIBBED	172 -2245	1	PULLEY GP	182
CAP AS-OIL FILLER	2W -6225	1	COVER GP-VALVE MECHANISM	45
		1	COVER GP-VALVE MECHANISM	46
ELEMENT AS-AIR COMPRESSOR	9L -2169	1	ELEMENT AS-AIR COMPRESSOR	90
FITTING-GREASE	3B -8485	1	BELT TIGHTENER GP	22
	3B -8489	2	CLUTCH GP	32
		2	CLUTCH GP	34
		1	PULLEY GP	180
		1	PULLEY GP-FAN DRIVE	190
FITTING-GREASE (1/8-27 THD)	3B -8489	2	CLUTCH GP	28
		2	CLUTCH GP	30
		1	PULLEY GP	182
PLUG-DRAIN	5F -0304	1	HOUSING GP-FLYWHEEL	141
PLUG-O-RING (MAGNETIC OIL DRAIN) (3/4X16-2A THD)	118 -3619	1	DRAIN GP-ENGINE OIL	72
SEAL	5P -5678		COVER GP-VALVE MECHANISM	45
SEAL (2M)	5P -5678		COVER GP-VALVE MECHANISM	47
SEAL (2.0M)	5P -5678		COVER GP-VALVE MECHANISM	46
			COVER GP-VALVE MECHANISM	48
V-BELT (PUMP DRIVE)	036 -6775	1	DRIVE GP-WATER PUMP	89
COOLING SYSTEM				
CAP-RADIATOR	6L -8617	1	RADIATOR GP	303
FILTER-WATER	119 -3025	1	PUMP GP-WATER	297
		1	PUMP GP-WATER	298
		1	PUMP GP-WATER	299
REGULATOR-WATER TEMPERATURE	115 -4223	2	LINES GP-WATER	292
		2	LINES GP-WATER	293
	119 -3075	2	LINES GP-WATER	294

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
ELECTRICAL AND STARTING SYSTEM				
BATTERY (MAINTENANCE FREE)	115-2421	2	BATTERY GP	419
BATTERY-MAINTENANCE FREE	115-2421	2	BATTERY GP	418
BATTERY (12 VOLT)	153-5656	2	BATTERY GP	417
BRUSH AS-ALTERNATOR	3E-5459	2	ALTERNATOR GP-CHARGING	400
		2	ALTERNATOR GP-CHARGING	402
		2	ALTERNATOR GP-CHARGING	404
		2	ALTERNATOR GP-CHARGING	406
		2	ALTERNATOR GP-CHARGING	410
		2	ALTERNATOR GP-CHARGING	410
CAP	9L-6770	1	ALTERNATOR GP-CHARGING	400
		1	ALTERNATOR GP-CHARGING	404
		1	ALTERNATOR GP-CHARGING	406
		1	ALTERNATOR GP-CHARGING	410
CAP AS-DUST	133-6517	1	HEATER GP-JACKET WATER	440
CAP (37 DEGREE FLARED)	8S-4950	1	CONTROL & MTG GP-ENGINE ELEK	422
CIRCUIT BREAKER AS (15 AMP)	6T-3643	2	CONTROL GP-AUTO START/STOP	424
		2	CONTROL GP-AUTO START/STOP	426
		2	CONTROL GP-AUTO START/STOP	428
ELEMENT AS-JACKET WATER HEATER	124-0686	1	HEATER GP-JACKET WATER	440
	124-0687	1	HEATER GP-JACKET WATER	441
HOLDER AS-BRUSH	3E-5460	1	ALTERNATOR GP-CHARGING	400
		1	ALTERNATOR GP-CHARGING	402
		1	ALTERNATOR GP-CHARGING	404
		1	ALTERNATOR GP-CHARGING	406
		1	ALTERNATOR GP-CHARGING	410
KEY	5P-8500	1	CONTROL GP-AUTO START/STOP	424
		1	CONTROL GP-AUTO START/STOP	426
		1	CONTROL GP-AUTO START/STOP	428
LAMP (24 VOLT)	7N-5876	2	CONTROL GP-AUTO START/STOP	424
		2	CONTROL GP-AUTO START/STOP	426
LENS-AMBER	2V-7087	1	CONTROL GP-AUTO START/STOP	424
		1	CONTROL GP-AUTO START/STOP	426
		1	CONTROL GP-AUTO START/STOP	428
V-BELT	5M-8137	1	ALTERNATOR GP-CHARGING	408
V-BELT (1/2INCH X 50INCH) (12.7MM X 1270MM (COG TYPE))	5M-8137	1	ALTERNATOR GP-CHARGING	414
FUEL SYSTEM				
CAP-DUST	6V-0852	1	LINES GP-FUEL FILTER	360
ELEMENT-FILTER (FUEL/WATER SEPARATOR) (PRIMARY)	133-5673	1	FILTER GP-WATER SEP & FUEL	351
FILTER AS-FUEL	1R-0751	1	FILTER GP-FUEL	348
		1	FILTER GP-FUEL	350
FILTER AS-WATER SEP & FUEL	1R-0762	1	LINES GP-FUEL FILTER	360
	1R-0770	1	FILTER GP-WATER SEP & FUEL	352
REGULATOR AS	196-6840	1	LINES GP-FUEL	356
		1	REGULATOR GP-FUEL PRESSURE	372

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
LUBRICATION SYSTEM				
BREATHER AS	164-0210	1	BREATHER GP	239
	183-6848	1	BREATHER GP	240
CAP-DUST	8C-3445	1	VALVE GP-FLUID SAMPLING	272
CAP-OIL FILLER	4W-3087	1	FILLER GP-ENGINE OIL	243
	9L-8439	1	LINES GP-TURBOCHARGER OIL	265
		1	LINES GP-TURBOCHARGER OIL	266
CLAMP-HOSE	9M-2904	1	FUMES DISPOSAL GP	247
		1	FUMES DISPOSAL GP	250
FILTER AS-ENGINE OIL	1R-0716	1	FILTER GP-ENGINE OIL	245
	1R-0739	1	FILTER GP-ENGINE OIL	244
		1	FILTER GP-ENGINE OIL	246
GASKET	1S-7057	1	LINES GP-TURBOCHARGER OIL	264
	7W-2398	1	LINES GP-TURBOCHARGER OIL	264
HOSE	155-4918	1	FUMES DISPOSAL GP	249
HOSE-DISPOSAL	4W-2181	1	FUMES DISPOSAL GP	250
HOSE (FUMES)	155-4920	1	FUMES DISPOSAL GP	248
HOSE-FUMES DISPOSAL	136-0806	1	FUMES DISPOSAL GP	247
SEAL-O-RING (81.92MM ID)	4L-9564	1	BREATHER GP	239
		1	BREATHER GP	240
SEAL-O-RING (91.67MM ID)	8H-7521	1	FILTER GP-ENGINE OIL	245

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT DE CARBURANT				
ÉLÉMENT DE FILTRE (CARBURANT/SÉPARATEUR D'EAU) (PRINCIPAL)	133-5673	1	FILTRE DE SÉPARATEUR D'EAU ET DE CARBURANT (ASS)	351
FILTRE - SÉPARATEUR D'EAU ET DE CARBURANT (ENS)	1R-0770	1	FILTRE DE SÉPARATEUR D'EAU ET DE CARBURANT (ASS)	352
FILTRE A CARBURANT (ENS)	1R-0751	1	FILTRE A CARBURANT (ASS)	348
		1	FILTRE A CARBURANT (ASS)	350
	1R-0762	1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	360
PARE-POUSSIÈRE	6V-0852	1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	360
RÉGULATEUR (ENS)	196-6840	1	CANALISATIONS DE CARBURANT (ASS)	356
		1	REGULATEUR DE PRESSION DE CARBURANT (ASS)	372
CIRCUIT DE GRAISSAGE				
BOUCHON DE GOULOTTE DE REPLISSAGE D'HUILE	4W-3087	1	BOUCHON DE REMPLISSAGE D'HUILE MOTEUR (ASS)	243
	9L-8439	1	CANALISATIONS D'HUILE DE TURBOCOMPRESSEUR (ASS)	265
		1	CANALISATIONS D'HUILE DE TURBOCOMPRESSEUR (ASS)	266
COLLIER DE FLEXIBLE	9M-2904	1	DISPOSITIF D'EVACUATION DES VAPEURS DE CARTER	247
		1	DISPOSITIF D'EVACUATION DES VAPEURS DE CARTER	250
FILTRE A HUILE MOTEUR (ENS)	1R-0739	1	FILTRE À HUILE MOTEUR (ASS)	244
	1R-0716	1	FILTRE À HUILE MOTEUR (ASS)	245
	1R-0739	1	FILTRE À HUILE MOTEUR (ASS)	246
FLEXIBLE	155-4918	1	DISPOSITIF D'EVACUATION DES VAPEURS DE CARTER	249
FLEXIBLE D'ÉVACUATION DES VAPEURS	136-0806	1	DISPOSITIF D'EVACUATION DES VAPEURS DE CARTER	247
FLEXIBLE (VAPEURS)	155-4920	1	DISPOSITIF D'EVACUATION DES VAPEURS DE CARTER	248
JOINT PLAT	1S-7057	1	CANALISATIONS D'HUILE DE TURBOCOMPRESSEUR (ASS)	264
	7W-2398	1	CANALISATIONS D'HUILE DE TURBOCOMPRESSEUR (ASS)	264
JOINT TORIQUE (DIA INT 81,92MM)	4L-9564	1	RENIFLARD (ASS)	239
		1	RENIFLARD (ASS)	240
JOINT TORIQUE (DIA INT 91,67 MM)	8H-7521	1	FILTRE À HUILE MOTEUR (ASS)	245
PARE-POUSSIÈRE	8C-3445	1	ROBINET-PRÉLÈVEMENT D'ÉCHANTILLON DE LIQUIDE (ASS)	272
RENIFLARD (ENS)	164-0210	1	RENIFLARD (ASS)	239
	183-6848	1	RENIFLARD (ASS)	240
TUYAU D'ÉCHAPPEMENT	4W-2181	1	DISPOSITIF D'EVACUATION DES VAPEURS DE CARTER	250

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT DE REFROIDISSEMENT				
CHAPEAU - RADIATEUR	6L-8617	1	RADIATEUR (ASS)	303
FILTRE -EAU	119-3025	1	POMPE A EAU (ASS)	297
		1	POMPE A EAU (ASS)	298
		1	POMPE A EAU (ASS)	299
THERMOSTAT-TEMPÉRATURE D'EAU	115-4223	2	CANALISATIONS D'EAU (ASS)	292
		2	CANALISATIONS D'EAU (ASS)	293
	119-3075	2	CANALISATIONS D'EAU (ASS)	294

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT ELECTRIQUE ET DE DEMARRAGE				
AMPOULE (24 VOLTS)	7N-5876	2	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	424
		2	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	426
BATTERIE SANS ENTRETIEN	115-2421	2	BATTERIE (ASS)	418
BATTERIE (SANS ENTRETIEN)	115-2421	2	BATTERIE (ASS)	419
BATTERIE (12 VOLTS)	153-5656	2	BATTERIE (ASS)	417
BROSSE D'ALTERNATEUR (ENS)	3E-5459	2	ALTERNATEUR DE CHARGE (ASS)	400
		2	ALTERNATEUR DE CHARGE (ASS)	402
		2	ALTERNATEUR DE CHARGE (ASS)	404
		2	ALTERNATEUR DE CHARGE (ASS)	406
		2	ALTERNATEUR DE CHARGE (ASS)	410
		2	ALTERNATEUR DE CHARGE (ASS)	410
CHAPEAU	9L-6770	1	ALTERNATEUR DE CHARGE (ASS)	400
		1	ALTERNATEUR DE CHARGE (ASS)	404
		1	ALTERNATEUR DE CHARGE (ASS)	406
		1	ALTERNATEUR DE CHARGE (ASS)	410
CHAPEAU ANTI-POUSSIÈRE	133-6517	1	EAU DES CHEMISES - RECHAUFFEUR (ASS)	440
CHAPEAU (ÉVASÉ DE 37 DEGRÉS) CLÉ	8S-4950	1	COMMANDE ET MONTAGE - MOTEUR	422
	5P-8500	1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	424
		1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	426
		1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	428
		1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	428
COURROIE TRAPEZOIDALE	5M-8137	1	ALTERNATEUR DE CHARGE (ASS)	408
COURROIE TRAPEZOIDALE (1/2 POUCE X 50 POUÇES) (12,7 MM X 1270 MM (TYPE CRANTÉ))	5M-8137	1	ALTERNATEUR DE CHARGE (ASS)	414
DISJONCTEUR (ENS) (15A)	6T-3643	2	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	424
		2	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	426
		2	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	428
ÉLÉMENT DU RÉCHAUFFEUR D'EAU DES CHEMISES (ENS)	124-0686	1	EAU DES CHEMISES - RECHAUFFEUR (ASS)	440
	124-0687	1	EAU DES CHEMISES - RECHAUFFEUR (ASS)	441
LENTILLE ORANGE	2V-7087	1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	424
		1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	426
		1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	428
PORTE-BALAIS (ENS)	3E-5460	1	ALTERNATEUR DE CHARGE (ASS)	400
		1	ALTERNATEUR DE CHARGE (ASS)	402
		1	ALTERNATEUR DE CHARGE (ASS)	404
		1	ALTERNATEUR DE CHARGE (ASS)	406
		1	ALTERNATEUR DE CHARGE (ASS)	410

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
MOTEUR				
BOUCHON DE GOULOTTE DE REMPLISSAGE D'HUILE MOTEUR	2W-6225	1	CACHE-SOUPAPES (ASS)	45
		1	CACHE-SOUPAPES (ASS)	46
BOUCHON DE VIDANGE	5F-0304	1	CARTER DE VOLANT (ASS)	141
BOUCHON-JOINT TORIQUE (VIDANGE D'HUILE MAGNÉTIQUE) (FILET 3/4X16-2A)	118-3619	1	VIDANGE-HUILE DE MOTEUR (ASS)	72
BOURRELET D'ÉTANCHÉITÉ	5P-5678		CACHE-SOUPAPES (ASS)	45
BOURRELET D'ÉTANCHÉITÉ (2 M)	5P-5678		CACHE-SOUPAPES (ASS)	47
BOURRELET D'ÉTANCHÉITÉ (2,0 M)	5P-5678		CACHE-SOUPAPES (ASS)	46
			CACHE-SOUPAPES (ASS)	48
COURROIE	171-4679	1	POULIE (ASS)	180
COURROIE NERVURÉE	172-2245	1	POULIE (ASS)	182
COURROIE TRAPEZOIDALE (ENTRAÎNEMENT DE POMPE)	036-6775	1	ENTRAÎNEMENT DE POMPE À EAU (ASS)	89
ELEMENT DU COMPRESSEUR D'AIR (ENS)	9L-2169	1	ELEMENT DU COMPRESSEUR D'AIR (ENS)	90
GRAISSEUR	3B-8485	1	TENDEUR DE COURROIE (ASS)	22
	3B-8489	2	EMBRAYAGE (ASS)	32
		2	EMBRAYAGE (ASS)	34
		1	POULIE (ASS)	180
		1	POULIE D'ENTRAÎNEMENT DE VENTILATEUR (ASS)	190
GRAISSEUR (FILET 1/8-27)	3B-8489	2	EMBRAYAGE (ASS)	28
		2	EMBRAYAGE (ASS)	30
		1	POULIE (ASS)	182
SYSTEME D'ÉCHAPPEMENT ET D'ADMISSION D'AIR				
ÉLÉMENT DE FILTRE À AIR PRIMAIRE (ENS)	6I-2501	1	FILTRE A AIR (ASS)	307
	6I-2509	1	FILTRE A AIR (ASS)	309
ÉLÉMENT DE FILTRE À AIR SECONDAIRE (ENS)	6I-2502	1	FILTRE A AIR (ASS)	307
	6I-2510	1	FILTRE A AIR (ASS)	309
INDICATEUR DE COLMATAGE DE FILTRE A AIR	1W-0613	1	INDICATEUR DE COLMATAGE DE FILTRE À AIR (ASS)	326
	8N-2694	1	FILTRE A AIR (ASS)	310

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
MOTOR BÁSICO				
CONEXIÓN DE ENGRASE	3B-8485	1	AJUSTADOR DE CORREA (GR)	22
	3B-8489	2	EMBRAGUE (GR)	32
		2	EMBRAGUE (GR)	34
		1	POLEA DEL MANDO DE VENTILADOR (GR)	190
CONEXIÓN DE ENGRASE (ROSCA DE 1/8-27)	3B-8489	1	POLEA (GR)	180
		2	EMBRAGUE (GR)	28
		2	EMBRAGUE (GR)	30
		1	POLEA (GR)	182
CORREA	171-4679	1	POLEA (GR)	180
CORREA ACOSTIALLADA	172-2245	1	POLEA (GR)	182
CORREA TRAPEZOIDAL (MANDO DE LA BOMBA)	036-6775	1	MANDO DE LA BOMBA DE AGUA (GR)	89
ELEMENTO DEL COMPRESOR DE AIRE (CONJ)	9L-2169	1	ELEMENTO DEL COMPRESOR DE AIRE (CONJ)	90
SELLO	5P-5678		TAPA DEL MECANISMO DE VÁLVULAS (GR)	45
SELLO (2M)	5P-5678		TAPA DEL MECANISMO DE VÁLVULAS (GR)	47
SELLO (2,0M)	5P-5678		TAPA DEL MECANISMO DE VÁLVULAS (GR)	46
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	48
TAPA DEL TUBO DE LLENADO DE ACEITE (CONJ)	2W-6225	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	45
		1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	46
TAPÓN DE DRENAJE	5F-0304	1	VOLANTE - CAJA DE (GR)	141
TAPÓN (DRENAJE MAGNETIZADO DE ACEITE) (ROSCA DE 3/4X16-2A)	118-3619	1	DRENAJE DEL ACEITE DE MOTOR	72
SISTEMA DE ADMISION DE AIRE Y ESCAPE				
ELEMENTO PRIMARIO DEL FILTRO DE AIRE (CONJ)	6I-2501	1	FILTRO DE AIRE (GR)	307
	6I-2509	1	FILTRO DE AIRE (GR)	309
ELEMENTO SECUNDARIO DEL FILTRO DE AIRE (CONJ)	6I-2502	1	FILTRO DE AIRE (GR)	307
	6I-2510	1	FILTRO DE AIRE (GR)	309
INDICADOR DE SERVICIO DEL FILTRO DE AIRE	1W-0613	1	INDICADOR DE CAMBIO DE FILTRO DE ACEITE (GR)	326
	8N-2694	1	FILTRO DE AIRE (GR)	310

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA DE COMBUSTIBLE				
ELEMENTO DE FILTRO (SEPARADOR DE COMBUSTIBLE/AGUA) (PRIMARIO)	133-5673	1	FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (GR)	351
FILTRO DE COMBUSTIBLE (CONJ)	1R-0751	1	FILTRO DE COMBUSTIBLE (GR)	348
		1	FILTRO DE COMBUSTIBLE (GR)	350
	1R-0762	1	TUBERÍAS DEL FILTRO DE COMBUSTIBLE	360
FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (CONJ)	1R-0770	1	FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (GR)	352
REGULADOR (CONJ)	196-6840	1	REGULADOR DE LA PRESION DE COMBUSTIBLE (GR)	372
		1	TUBERÍAS DE COMBUSTIBLE (GR)	356
TAPA CONTRA EL POLVO	6V-0852	1	TUBERÍAS DEL FILTRO DE COMBUSTIBLE	360
SISTEMA DE ENFRIAMIENTO				
FILTRO DE AGUA	119-3025	1	BOMBA DE AGUA (GR)	297
		1	BOMBA DE AGUA (GR)	298
		1	BOMBA DE AGUA (GR)	299
REGULADOR DE TEMPERATURA DEL AGUA	115-4223	2	TUBERÍAS DEL AGUA (GR)	292
		2	TUBERÍAS DEL AGUA (GR)	293
	119-3075	2	TUBERÍAS DEL AGUA (GR)	294
TAPA DEL RADIADOR	6L-8617	1	RADIADOR (GR)	303
SISTEMA DE LUBRICACIÓN				
ABRAZADERA DE MANGUERA	9M-2904	1	ESCAPE DE GASES (GR)	247
		1	ESCAPE DE GASES (GR)	250
EMPAQUETADURA	1S-7057	1	TURBOCOMPRESOR - TUBERÍAS DE ACEITE DEL (GR)	264
	7W-2398	1	TURBOCOMPRESOR - TUBERÍAS DE ACEITE DEL (GR)	264
FILTRO DE ACEITE DEL MOTOR (CONJ)	1R-0739	1	FILTRO DE ACEITE DEL MOTOR (GR)	244
	1R-0716	1	FILTRO DE ACEITE DEL MOTOR (GR)	245
	1R-0739	1	FILTRO DE ACEITE DEL MOTOR (GR)	246
MANGUERA	155-4918	1	ESCAPE DE GASES (GR)	249
MANGUERA DE ESCAPE DE GASES	136-0806	1	ESCAPE DE GASES (GR)	247
MANGUERA (VAPORES)	155-4920	1	ESCAPE DE GASES (GR)	248
RESPIRADERO (CONJ)	164-0210	1	RESPIRADERO (GR)	239
	183-6848	1	RESPIRADERO (GR)	240
SELLO ANULAR (81,92MM DI)	4L-9564	1	RESPIRADERO (GR)	239
		1	RESPIRADERO (GR)	240
SELLO ANULAR (91,67MM DI)	8H-7521	1	FILTRO DE ACEITE DEL MOTOR (GR)	245
TAPA CONTRA EL POLVO	8C-3445	1	VÁLVULA DE MUESTREO (GR)	272
TAPA DEL TUBO DE LLENADO DE ACEITE	4W-3087	1	TUBO DE LLENADO DE ACEITE (GR)	243
	9L-8439	1	TURBOCOMPRESOR - TUBERÍAS DE ACEITE DEL (GR)	265
		1	TURBOCOMPRESOR - TUBERÍAS DE ACEITE DEL (GR)	266
TUBO DE ESCAPE	4W-2181	1	ESCAPE DE GASES (GR)	250

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA ELECTRICO Y DE ARRANQUE				
BATERÍA LIBRE DE MANTENIMIENTO	115-2421	2	BATERÍA (GR)	418
BATERÍA (LIBRE DE MANTENIMIENTO)	115-2421	2	BATERÍA (GR)	419
BATERÍA (12 VOLTIOS)	153-5656	2	BATERÍA (GR)	417
CORREA TRAPEZOIDAL	5M-8137	1	CARGA - ALTERNADOR DE (GR)	408
CORREA TRAPEZOIDAL (1/2PULGADA X 50PULG.) (12.7MM X 1270MM (DENTADA))	5M-8137	1	CARGA - ALTERNADOR DE (GR)	414
DISYUNTOR (CONJ) (15 A)	6T-3643	2	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	424
		2	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	426
		2	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	428
ELEMENTO DEL CALENTADOR DEL AGUA DE LAS CAMISAS	124-0686	1	AGUA DE LAS CAMISAS - CALENTADOR DEL (GR)	440
	124-0687	1	AGUA DE LAS CAMISAS - CALENTADOR DEL (GR)	441
ESCOBILLA DE ALTERNADOR (CONJ)	3E-5459	2	CARGA - ALTERNADOR DE (GR)	400
		2	CARGA - ALTERNADOR DE (GR)	402
		2	CARGA - ALTERNADOR DE (GR)	404
		2	CARGA - ALTERNADOR DE (GR)	406
		2	CARGA - ALTERNADOR DE (GR)	410
LÁMPARA (24 VOLTIOS)	7N-5876	2	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	424
		2	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	426
LENTE AMBAR	2V-7087	1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	424
		1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	426
		1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	428
LLAVE	5P-8500	1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	424
		1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	426
		1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	428
PORTAESCOBILLAS (CONJ)	3E-5460	1	CARGA - ALTERNADOR DE (GR)	400
		1	CARGA - ALTERNADOR DE (GR)	402
		1	CARGA - ALTERNADOR DE (GR)	404
		1	CARGA - ALTERNADOR DE (GR)	406
		1	CARGA - ALTERNADOR DE (GR)	410
TAPA	9L-6770	1	CARGA - ALTERNADOR DE (GR)	400
		1	CARGA - ALTERNADOR DE (GR)	404
		1	CARGA - ALTERNADOR DE (GR)	406
		1	CARGA - ALTERNADOR DE (GR)	410
TAPA CONTRA EL POLVO (CONJ)	133-6517	1	AGUA DE LAS CAMISAS - CALENTADOR DEL (GR)	440
TAPA (37 GRADOS ABOCINADA)	8S-4950	1	CONTROL ELECTRÓNICO DEL MOTOR Y MONTAJE	422

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
MOTOR BÁSICO				
BUJÃO - ANEL O (MAGNÉTICO-DRENO DO ÓLEO) (ROSCA DE 3/4X16-2A)	118-3619	1	DRENO - ÓLEO DO MOTOR	72
BUJÃO DO DRENO	5F-0304	1	CAIXA DO VOLANTE DO MOTOR	141
CORREIA	171-4679	1	POLIA	180
CORREIA EM V (COMANDO DA BOMBA)	036-6775	1	COMANDO DA BOMBA D'ÁGUA	89
CORREIA-ESTRIADA	172-2245	1	POLIA	182
ELEMENTO - COMPRESSOR DE AR	9L-2169	1	ELEMENTO - COMPRESSOR DE AR	90
GRAXEIRA	3B-8485	1	AJUSTADOR DE CORREIAS	22
	3B-8489	2	EMBREAGEM	32
			2 EMBREAGEM	34
			1 POLIA	180
			1 POLIA - ACIONADOR DO VENTILADOR	190
GRAXEIRA (ROSCA 1/8-27 POL)	3B-8489	2	EMBREAGEM	28
		2	EMBREAGEM	30
		1	POLIA	182
RETENTOR	5P-5678		TAMPA - MECANISMO DAS VÁLVULAS	45
RETENTOR (2M)	5P-5678		TAMPA - MECANISMO DAS VÁLVULAS	47
RETENTOR (2,0M)	5P-5678		TAMPA - MECANISMO DAS VÁLVULAS	46
TAMPA - BOCAL DE ENCHIMENTO DE ÓLEO	2W-6225	1	TAMPA - MECANISMO DAS VÁLVULAS	45
			1 TAMPA - MECANISMO DAS VÁLVULAS	46
SISTEMA DE ADMISSÃO E ESCAPE				
ELEMENTO DO FILTRO PRIMÁRIO DE AR	6I-2501	1	PURIFICADOR DE AR	307
	6I-2509	1	PURIFICADOR DE AR	309
ELEMENTO DO FILTRO SECUNDÁRIO DE AR	6I-2502	1	PURIFICADOR DE AR	307
	6I-2510	1	PURIFICADOR DE AR	309
INDICADOR - LIMPEZA DO FILTRO DE AR	1W-0613	1	INDICADOR - TROCA DO FILTRO DE AR	326
	8N-2694	1	PURIFICADOR DE AR	310
SISTEMA DE ARREFECIMENTO				
FILTRO - ÁGUA	119-3025	1	BOMBA DE ÁGUA	297
			1 BOMBA DE ÁGUA	298
			1 BOMBA DE ÁGUA	299
REGULADOR DE TEMPERATURA DA ÁGUA	115-4223	2	TUBOS - ÁGUA	292
			2 TUBOS - ÁGUA	293
TAMPA - RADIADOR	119-3075	2	TUBOS - ÁGUA	294
	6L-8617	1	RADIADOR	303

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
SISTEMA DE COMBUSTÍVEL				
ELEMENTO - FILTRANTE (SEPARADOR DE ÁGUA E DE COMBUSTÍVEL) (PRIMÁRIO)	133-5673	1	FILTRO DE COMBUSTÍVEL E SEPARADOR DE ÁGUA	351
FILTRO - COMBUSTÍVEL	1R-0751	1	FILTRO - COMBUSTÍVEL	348
		1	FILTRO - COMBUSTÍVEL	350
	1R-0762	1	TUBOS - FILTRO DO COMBUSTÍVEL	360
FILTRO - SEPARADOR DE ÁGUA E COMBUSTÍVEL	1R-0770	1	FILTRO DE COMBUSTÍVEL E SEPARADOR DE ÁGUA	352
REGULADOR	196-6840	1	REGULADOR DE PRESSÃO DO COMBUSTÍVEL	372
		1	TUBOS - COMBUSTÍVEL	356
TAMPA CONTRA POEIRA	6V-0852	1	TUBOS - FILTRO DO COMBUSTÍVEL	360
SISTEMA DE LUBRIFICAÇÃO				
BRAÇADEIRA DE MANGUEIRA	9M-2904	1	ELIMINAÇÃO DE VAPORES DO CÁRTER	247
		1	ELIMINAÇÃO DE VAPORES DO CÁRTER	250
FILTRO - ÓLEO DO MOTOR	1R-0716	1	FILTRO - ÓLEO DO MOTOR	245
	1R-0739	1	FILTRO - ÓLEO DO MOTOR	244
		1	FILTRO - ÓLEO DO MOTOR	246
JUNTA	1S-7057	1	TUBOS - ÓLEO DO TURBOALIMENTADOR	264
	7W-2398	1	TUBOS - ÓLEO DO TURBOALIMENTADOR	264
MANGUEIRA	155-4918	1	ELIMINAÇÃO DE VAPORES DO CÁRTER	249
MANGUEIRA - DESCARTE	4W-2181	1	ELIMINAÇÃO DE VAPORES DO CÁRTER	250
MANGUEIRA - ELIMINAÇÃO DE VAPORES	136-0806	1	ELIMINAÇÃO DE VAPORES DO CÁRTER	247
MANGUEIRA (VAPORES)	155-4920	1	ELIMINAÇÃO DE VAPORES DO CÁRTER	248
RESPIRO	164-0210	1	RESPIRO	239
	183-6848	1	RESPIRO	240
RETENTOR DE ANEL-O (DIÂMETRO INTERNO DE 81,92MM)	4L-9564	1	RESPIRO	239
		1	RESPIRO	240
RETENTOR DE ANEL-O (91,67 MM DE DIÂMETRO INTERNO)	8H-7521	1	FILTRO - ÓLEO DO MOTOR	245
TAMPA - BOCAL DE ENCHIMENTO DE ÓLEO	4W-3087	1	BOCAL DE ENCHIMENTO DE ÓLEO DO MOTOR	243
	9L-8439	1	TUBOS - ÓLEO DO TURBOALIMENTADOR	265
		1	TUBOS - ÓLEO DO TURBOALIMENTADOR	266
TAMPA CONTRA POEIRA	8C-3445	1	VÁLVULA PARA TIRAR AMOSTRAS DE FLUIDOS	272

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
SISTEMA ELÉTRICO E DE PARTIDA				
BATERIA - ISENTA DE MANUTENÇÃO	115-2421	2	BATERIA	418
BATERIA (LIVRE DE MANUTENÇÃO)	115-2421	2	BATERIA	419
BATERIA (12 V)	153-5656	2	BATERIA	417
CHAVE	5P-8500	1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	424
		1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	426
		1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	428
CORREIA EM V	5M-8137	1	ALTERNADOR DE CORRENTE	408
CORREIA EM V (1/2 POL. X 50 POL.) (12,7MM X 1270MM)	5M-8137	1	ALTERNADOR DE CORRENTE	414
DISJUNTOR AUTOMÁTICO DE CIRCUITO (15 A)	6T-3643	2	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	424
		2	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	426
		2	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	428
ELEMENTO - AQUECEDOR DE ÁGUA DA CAMISA	124-0686	1	AQUECEDOR DA ÁGUA DO MOTOR	440
	124-0687	1	AQUECEDOR DA ÁGUA DO MOTOR	441
ESCOVA DO ALTERNADOR	3E-5459	2	ALTERNADOR DE CORRENTE	400
		2	ALTERNADOR DE CORRENTE	402
		2	ALTERNADOR DE CORRENTE	404
		2	ALTERNADOR DE CORRENTE	406
		2	ALTERNADOR DE CORRENTE	410
LÂMPADA (24 V)	7N-5876	2	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	424
		2	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	426
LENTE ÂMBAR	2V-7087	1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	424
		1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	426
		1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	428
SUPORTE - ESCOVA	3E-5460	1	ALTERNADOR DE CORRENTE	400
		1	ALTERNADOR DE CORRENTE	402
		1	ALTERNADOR DE CORRENTE	404
		1	ALTERNADOR DE CORRENTE	406
		1	ALTERNADOR DE CORRENTE	410
TAMPA	9L-6770	1	ALTERNADOR DE CORRENTE	400
		1	ALTERNADOR DE CORRENTE	404
		1	ALTERNADOR DE CORRENTE	406
		1	ALTERNADOR DE CORRENTE	410
TAMPA (ABERTURA DE 37 GRAUS)	8S-4950	1	CONTROLE ELETRÔNICO E MONTAGEM - MOTOR	422
TAMPA CONTRA POEIRA	133-6517	1	AQUECEDOR DA ÁGUA DO MOTOR	440

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
ELEKTRISCHE ANLAGE UND STARTSYSTEM				
ABDECKGLAS (GELB)	2V-7087	1	AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	424
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	426
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	428
BATTERIE - WARTUNGSFREI	115-2421	2	BATTERIE	418
BATTERIE (WARTUNGSFREI)	115-2421	2	BATTERIE	419
BATTERIE (12 V)	153-5656	2	BATTERIE	417
BÜRSTENHALTER	3E-5460	1	DREHSTROMGENERATOR	400
			DREHSTROMGENERATOR	402
			DREHSTROMGENERATOR	404
			DREHSTROMGENERATOR	406
			DREHSTROMGENERATOR	410
			DREHSTROMGENERATOR-BÜRSTE	3E-5459
KAPPE	9L-6770	1	DREHSTROMGENERATOR	400
			DREHSTROMGENERATOR	404
			DREHSTROMGENERATOR	406
			DREHSTROMGENERATOR	410
			DREHSTROMGENERATOR	400
			DREHSTROMGENERATOR	402
			DREHSTROMGENERATOR	404
			DREHSTROMGENERATOR	406
			DREHSTROMGENERATOR	410
			DREHSTROMGENERATOR	410
KAPPE (37 GRAD KONISCH)	8S-4950	1	STEUERUNGSEINHEIT, ELEKTRON. FÜR MOTOR UND BEFEST.	422
KEILRIEMEN	5M-8137	1	DREHSTROMGENERATOR	408
KEILRIEMEN (1/2 ZOLL X 50 ZOLL) (12,7 MM X 1270 MM)	5M-8137	1	DREHSTROMGENERATOR	414
LEUCHTE (24 V)	7N-5876	2	AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	424
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	426
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	428
SCHLÜSSEL	5P-8500	1	AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	424
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	426
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	428
STAUBKAPPE	133-6517	1	UMLAUFKÜHLWASSERHEIZUNG	440
UMLAUFKÜHLWASSERHEIZUNGS-ELEMENT	124-0686	1	UMLAUFKÜHLWASSERHEIZUNG	440
UNTERBRECHER (15 A)	6T-3643	2	UMLAUFKÜHLWASSERHEIZUNG	441
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	424
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	426
			AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	428

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
KRAFTSTOFFSYSTEM				
FILTER (KRAFTSTOFF-/WASSERAB- SCHEIDER) (HAUPTELEMENT)	133-5673	1	WASSERABSCHEIDER- U. KRAFTSTOFFFILTER	351
KRAFTSTOFFFILTER	1R-0751	1	KRAFTSTOFFFILTER	348
		1	KRAFTSTOFFFILTER	350
	1R-0762	1	KRAFTSTOFFFILTERLEITUNGEN	360
REGLER	196-6840	1	KRAFTSTOFFDRUCKREGLER	372
		1	KRAFTSTOFFLEITUNGEN	356
STAUBKAPPE	6V-0852	1	KRAFTSTOFFFILTERLEITUNGEN	360
WASSERABSCHEIDER UND KRAFTSTOFFFILTER	1R-0770	1	WASSERABSCHEIDER- U. KRAFTSTOFFFILTER	352
KÜHLSYSTEM				
KÜHLERKAPPE	6L-8617	1	KÜHLER	303
WASSERFILTER	119-3025	1	KÜHLWASSERPUMPE	297
		1	KÜHLWASSERPUMPE	298
		1	KÜHLWASSERPUMPE	299
WASSERTEMPERATURREGLER	115-4223	2	KÜHLWASSERLEITUNGEN	292
		2	KÜHLWASSERLEITUNGEN	293
	119-3075	2	KÜHLWASSERLEITUNGEN	294
LUFTANSAUG- UND ABGASSYSTEM				
HAUPTFILTER	6I-2501	1	LUFTREINIGER	307
	6I-2509	1	LUFTREINIGER	309
LUFTFILTER-WARTUNGSANZEIGE	1W-0613	1	LUFTFILTERWARTUNGSANZEIGE	326
	8N-2694	1	LUFTREINIGER	310
SICHERHEITSFILTER	6I-2502	1	LUFTREINIGER	307
	6I-2510	1	LUFTREINIGER	309
MOTOR (GRUNDAUSFÜHRUNG)				
ABLASSSTOPFEN	5F-0304	1	SCHWUNGRADGEHÄUSE	141
DICHTUNG	5P-5678		VENTILDECKEL	45
DICHTUNG (2 M)	5P-5678		VENTILDECKEL	47
DICHTUNG (2,0 M)	5P-5678		VENTILDECKEL	46
			VENTILDECKEL	48
KEILRIEMEN	171-4679	1	RIEMENSCHLEIBE	180
KEILRIEMEN (PUMPENANTRIEB)	036-6775	1	KÜHLWASSERPUMPENANTRIEB	89
LUFTKOMPRESSORELEMENT	9L-2169	1	LUFTKOMPRESSORELEMENT	90
O-RING-STOPFEN (MAGNETISCH -ÖLABLASS) (GEWINDE 3/4X2A)	118-3619	1	MOTORÖLABLASS	72
ÖLEINFÜLLSTUTZEN	2W-6225	1	VENTILDECKEL	45
		1	VENTILDECKEL	46
RIEMEN - GERIPPT	172-2245	1	RIEMENSCHLEIBE	182
SCHMIERNIPPEL	3B-8485	1	RIEMENSCHLEIBE	22
	3B-8489	2	KUPPLUNG	32
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		1	LÜFTERRIEMENSCHLEIBE	190
		1	RIEMENSCHLEIBE	180
SCHMIERNIPPEL (1/8-27-GEWINDE)	3B-8489	2	KUPPLUNG	28
		2	KUPPLUNG	30
		1	RIEMENSCHLEIBE	182

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
SCHMIERSYSTEM				
DICHTUNG	1S-7057	1	TURBOLADERÖLLEITUNGEN	264
	7W-2398	1	TURBOLADERÖLLEITUNGEN	264
ENTDUNSTERLEITUNG	4W-2181	1	ENTDUNSTER	250
ENTDUNSTERSCHLAUCH	136-0806	1	ENTDUNSTER	247
ENTLÜFTER	164-0210	1	ENTLÜFTER	239
	183-6848	1	ENTLÜFTER	240
O-RING-DICHTUNG (81,92 MM ID)	4L-9564	1	ENTLÜFTER	239
		1	ENTLÜFTER	240
O-RING-DICHTUNG (91,67 MM INNENDURCHMESSER)	8H-7521	1	ÖLFILTER	245
ÖLEINFÜLLKAPPE	4W-3087	1	MOTORÖLEINFÜLLSTUTZEN	243
	9L-8439	1	TURBOLADERÖLLEITUNGEN	265
		1	TURBOLADERÖLLEITUNGEN	266
ÖLFILTER	1R-0716	1	ÖLFILTER	245
	1R-0739	1	ÖLFILTER	244
		1	ÖLFILTER	246
SCHLAUCHLEITUNG	155-4918	1	ENTDUNSTER	249
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SCHLAUCHSCHELLE	9M-2904	1	ENTDUNSTER	247
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MEMORANDA

ENGINE ARRANGEMENT

203-7096 ENGINE AR-COMPLETE

155 BRAKE KW (208 BHP) AT 2100 RPM

SMCS-1000

i01594098

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	188-3506	1	ALTERNATOR GP-CHARGING						412
Y	128-2682	1	BREATHER GP						239
Y	204-1549	1	COMPRESSOR GP-REFRIGERANT						38
Y	183-1195	1	CONTROL & MTG GP-ENGINE ELEK						422
Y	153-1794	1	COVER GP-AIR INLET						314
Y	205-2199	1	COVER GP-CYLINDER BLOCK						41
Y	118-1727	1	COVER GP-FRONT HOUSING						43
Y	168-8639	1	COVER GP-FRONT HOUSING						44
Y	172-8732	1	COVER GP-OIL FILLER						241
Y	135-5035	1	COVER GP-VALVE MECHANISM						45
Y	165-4557	1	DAMPER & PULLEY GP						65
Y	7C-4566	1	DRAIN GP-ENGINE OIL						72
Y	118-2073	1	DRAIN GP-ENGINE OIL						73
Y	151-0854	1	ELBOW GP-AIR INLET						316
Y	205-3734	1	ENGINE AR-CORE						11
Y	177-5064	1	FASTENER GP-DAMPER						93
Y	116-4556	1	FASTENER GP-FRONT HOUSING						109
Y	166-1788	1	FASTENER GP-FRONT HOUSING						111
Y	164-6118	1	FASTENER GP-INLET MANIFOLD						325
Y	113-6170	1	FASTENER GP-LIFTING						112
Y	117-4075	1	FASTENER GP-OIL FILTER						242
Y	201-9775	1	FILTER GP-ENGINE OIL						246
Y	201-4094	1	FLYWHEEL GP						125
Y	163-5696	1	FUMES DISPOSAL GP						250
Y	203-1259	1	GAUGE GP-OIL LEVEL (DIPSTICK)						255
Y	4P-1479	1	HEATER GP-AIR INLET						438
Y	100-6570	1	HOUSING GP-FLYWHEEL						132
Y	153-5417	1	LIFTING GP-ENGINE						147
Y	7C-2475	1	LINES GP-ENGINE OIL						256
Y	205-9434	1	LINES GP-FUEL FILTER						360
Y	199-6305	1	LINES GP-OIL						260
Y	159-0285	1	LINES GP-TURBOCHARGER OIL						262
Y	141-8278	1	LINES GP-WATER						292
Y	127-3466	1	MANIFOLD GP-EXHAUST						329
Y	201-9762	1	MOUNTING GP-FAN DRIVE						159
Y	145-4925	1	MOUNTING GP-SOLENOID						444
Y	126-5931	1	PAN GP-OIL						164
Y	159-0303	1	PLUG GP-CYLINDER BLOCK						170
Y	142-8336	1	PLUG GP-ENGINE						171
Y	160-7075	1	PLUG GP-WATER LINES						295
Y	201-9771	1	PULLEY GP						180
Y	189-2232	1	PUMP GP-WATER						302
Y	115-4203	1	SEAL GP-CRANKSHAFT						193
Y	202-2371	1	SENSOR GP-ENGINE						448
Y	7E-6306	1	STARTING MOTOR GP-ELECTRIC						479
Y	146-9396	1	SUPPORT GP-ENGINE						201
YR	197-4998	1	TURBOCHARGER GP						340
Y	201-9777	1	VALVE GP-FLUID SAMPLING						272
Y	201-8436	1	WIRING GP-AIR INLET HEATER						518
Y	190-5038	1	WIRING GP-ENGINE						522

GASKET KITS WILL BE PROVIDED WHEN AVAILABLE

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

203-7097 ENGINE AR-COMPLETE

205 BRAKE KW (275 BHP) AT 2100 RPM

SMCS-1000

i01594144

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	188-3506	1	ALTERNATOR GP-CHARGING						412
Y	128-2682	1	BREATHER GP						239
Y	204-1549	1	COMPRESSOR GP-REFRIGERANT						38
Y	183-1195	1	CONTROL & MTG GP-ENGINE ELEK						422
Y	153-1794	1	COVER GP-AIR INLET						314
Y	205-2199	1	COVER GP-CYLINDER BLOCK						41
Y	118-1727	1	COVER GP-FRONT HOUSING						43
Y	168-8639	1	COVER GP-FRONT HOUSING						44
Y	172-8732	1	COVER GP-OIL FILLER						241
Y	135-5035	1	COVER GP-VALVE MECHANISM						45
Y	165-4557	1	DAMPER & PULLEY GP						65
Y	7C-4566	1	DRAIN GP-ENGINE OIL						72
Y	118-2073	1	DRAIN GP-ENGINE OIL						73
Y	151-0854	1	ELBOW GP-AIR INLET						316
Y	205-3735	1	ENGINE AR-CORE						12
Y	177-5064	1	FASTENER GP-DAMPER						93
Y	116-4556	1	FASTENER GP-FRONT HOUSING						109
Y	166-1788	1	FASTENER GP-FRONT HOUSING						111
Y	164-6118	1	FASTENER GP-INLET MANIFOLD						325
Y	113-6170	1	FASTENER GP-LIFTING						112
Y	117-4075	1	FASTENER GP-OIL FILTER						242
Y	201-9775	1	FILTER GP-ENGINE OIL						246
Y	201-4094	1	FLYWHEEL GP						125
Y	163-5696	1	FUMES DISPOSAL GP						250
Y	203-1259	1	GAUGE GP-OIL LEVEL (DIPSTICK)						255
Y	4P-1479	1	HEATER GP-AIR INLET						438
Y	100-6570	1	HOUSING GP-FLYWHEEL						132
Y	153-5417	1	LIFTING GP-ENGINE						147
Y	7C-2475	1	LINES GP-ENGINE OIL						256
Y	205-9434	1	LINES GP-FUEL FILTER						360
Y	199-6305	1	LINES GP-OIL						260
Y	159-0285	1	LINES GP-TURBOCHARGER OIL						262
Y	141-8278	1	LINES GP-WATER						292
Y	127-3466	1	MANIFOLD GP-EXHAUST						329
Y	201-9762	1	MOUNTING GP-FAN DRIVE						159
Y	145-4925	1	MOUNTING GP-SOLENOID						444
Y	126-5931	1	PAN GP-OIL						164
Y	159-0303	1	PLUG GP-CYLINDER BLOCK						170
Y	142-8336	1	PLUG GP-ENGINE						171
Y	160-7075	1	PLUG GP-WATER LINES						295
Y	201-9771	1	PULLEY GP						180
Y	189-2232	1	PUMP GP-WATER						302
Y	115-4203	1	SEAL GP-CRANKSHAFT						193
Y	202-2371	1	SENSOR GP-ENGINE						448
Y	7E-6306	1	STARTING MOTOR GP-ELECTRIC						479
Y	146-9396	1	SUPPORT GP-ENGINE						201
YR	197-4998	1	TURBOCHARGER GP						340
Y	201-9777	1	VALVE GP-FLUID SAMPLING						272
Y	201-8436	1	WIRING GP-AIR INLET HEATER						518
Y	190-5038	1	WIRING GP-ENGINE						522

GASKET KITS WILL BE PROVIDED WHEN AVAILABLE

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

208-2838 ENGINE AR-COMPLETE

S/N: BEJ314-UP

SMCS-1000

i01622405

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	188-3506	1	ALTERNATOR GP-CHARGING						412
Y	128-2682	1	BREATHER GP						239
Y	204-1549	1	COMPRESSOR GP-REFRIGERANT						38
Y	183-1195	1	CONTROL & MTG GP-ENGINE ELEK						422
Y	153-1794	1	COVER GP-AIR INLET						314
Y	205-2199	1	COVER GP-CYLINDER BLOCK						41
Y	118-1727	1	COVER GP-FRONT HOUSING						43
Y	168-8639	1	COVER GP-FRONT HOUSING						44
Y	172-8732	1	COVER GP-OIL FILLER						241
Y	135-5035	1	COVER GP-VALVE MECHANISM						45
Y	165-4557	1	DAMPER & PULLEY GP						65
Y	7C-4566	1	DRAIN GP-ENGINE OIL						72
Y	118-2073	1	DRAIN GP-ENGINE OIL						73
Y	151-0854	1	ELBOW GP-AIR INLET						316
Y	212-2271	1	ENGINE AR-CORE						13
Y	177-5064	1	FASTENER GP-DAMPER						93
Y	116-4556	1	FASTENER GP-FRONT HOUSING						109
Y	166-1788	1	FASTENER GP-FRONT HOUSING						111
Y	164-6118	1	FASTENER GP-INLET MANIFOLD						325
Y	113-6170	1	FASTENER GP-LIFTING						112
Y	117-4075	1	FASTENER GP-OIL FILTER						242
Y	201-9775	1	FILTER GP-ENGINE OIL						246
Y	201-4094	1	FLYWHEEL GP						125
Y	163-5696	1	FUMES DISPOSAL GP						250
Y	203-1259	1	GAUGE GP-OIL LEVEL (DIPSTICK)						255
Y	4P-1479	1	HEATER GP-AIR INLET						438
Y	100-6570	1	HOUSING GP-FLYWHEEL						132
Y	153-5417	1	LIFTING GP-ENGINE						147
Y	7C-2475	1	LINES GP-ENGINE OIL						256
Y	205-9434	1	LINES GP-FUEL FILTER						360
Y	199-6305	1	LINES GP-OIL						260
Y	159-0285	1	LINES GP-TURBOCHARGER OIL						262
Y	141-8278	1	LINES GP-WATER						292
Y	127-3466	1	MANIFOLD GP-EXHAUST						329
Y	201-9762	1	MOUNTING GP-FAN DRIVE						159
Y	145-4925	1	MOUNTING GP-SOLENOID						444
Y	126-5931	1	PAN GP-OIL						164
Y	159-0303	1	PLUG GP-CYLINDER BLOCK						170
Y	142-8336	1	PLUG GP-ENGINE						171
Y	160-7075	1	PLUG GP-WATER LINES						295
Y	201-9771	1	PULLEY GP						180
Y	189-2232	1	PUMP GP-WATER						302
Y	115-4203	1	SEAL GP-CRANKSHAFT						193
Y	202-2371	1	SENSOR GP-ENGINE						448
Y	7E-6306	1	STARTING MOTOR GP-ELECTRIC						479
Y	146-9396	1	SUPPORT GP-ENGINE						201
YR	197-4998	1	TURBOCHARGER GP						340
Y	201-9777	1	VALVE GP-FLUID SAMPLING						272
Y	201-8436	1	WIRING GP-AIR INLET HEATER						518
Y	190-5038	1	WIRING GP-ENGINE						522

GASKET KITS WILL BE PROVIDED WHEN AVAILABLE

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

208-2839 ENGINE AR-COMPLETE

S/N: BEJ341-UP

SMCS-1000

i01622061

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	188-3506	1	ALTERNATOR GP-CHARGING						412
Y	128-2682	1	BREATHER GP						239
Y	204-1549	1	COMPRESSOR GP-REFRIGERANT						38
Y	183-1195	1	CONTROL & MTG GP-ENGINE ELEK						422
Y	153-1794	1	COVER GP-AIR INLET						314
Y	205-2199	1	COVER GP-CYLINDER BLOCK						41
Y	118-1727	1	COVER GP-FRONT HOUSING						43
Y	168-8639	1	COVER GP-FRONT HOUSING						44
Y	172-8732	1	COVER GP-OIL FILLER						241
Y	135-5035	1	COVER GP-VALVE MECHANISM						45
Y	165-4557	1	DAMPER & PULLEY GP						65
Y	7C-4566	1	DRAIN GP-ENGINE OIL						72
Y	118-2073	1	DRAIN GP-ENGINE OIL						73
Y	151-0854	1	ELBOW GP-AIR INLET						316
Y	212-2272	1	ENGINE AR-CORE						14
Y	177-5064	1	FASTENER GP-DAMPER						93
Y	116-4556	1	FASTENER GP-FRONT HOUSING						109
Y	166-1788	1	FASTENER GP-FRONT HOUSING						111
Y	164-6118	1	FASTENER GP-INLET MANIFOLD						325
Y	113-6170	1	FASTENER GP-LIFTING						112
Y	117-4075	1	FASTENER GP-OIL FILTER						242
Y	201-9775	1	FILTER GP-ENGINE OIL						246
Y	201-4094	1	FLYWHEEL GP						125
Y	163-5696	1	FUMES DISPOSAL GP						250
Y	203-1259	1	GAUGE GP-OIL LEVEL (DIPSTICK)						255
Y	4P-1479	1	HEATER GP-AIR INLET						438
Y	100-6570	1	HOUSING GP-FLYWHEEL						132
Y	153-5417	1	LIFTING GP-ENGINE						147
Y	7C-2475	1	LINES GP-ENGINE OIL						256
Y	205-9434	1	LINES GP-FUEL FILTER						360
Y	199-6305	1	LINES GP-OIL						260
Y	159-0285	1	LINES GP-TURBOCHARGER OIL						262
Y	141-8278	1	LINES GP-WATER						292
Y	127-3466	1	MANIFOLD GP-EXHAUST						329
Y	201-9762	1	MOUNTING GP-FAN DRIVE						159
Y	145-4925	1	MOUNTING GP-SOLENOID						444
Y	126-5931	1	PAN GP-OIL						164
Y	159-0303	1	PLUG GP-CYLINDER BLOCK						170
Y	142-8336	1	PLUG GP-ENGINE						171
Y	160-7075	1	PLUG GP-WATER LINES						295
Y	201-9771	1	PULLEY GP						180
Y	189-2232	1	PUMP GP-WATER						302
Y	115-4203	1	SEAL GP-CRANKSHAFT						193
Y	202-2371	1	SENSOR GP-ENGINE						448
Y	7E-6306	1	STARTING MOTOR GP-ELECTRIC						479
Y	146-9396	1	SUPPORT GP-ENGINE						201
YR	197-4998	1	TURBOCHARGER GP						340
Y	201-9777	1	VALVE GP-FLUID SAMPLING						272
Y	201-8436	1	WIRING GP-AIR INLET HEATER						518
Y	190-5038	1	WIRING GP-ENGINE						522

GASKET KITS WILL BE PROVIDED WHEN AVAILABLE

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

195-3336 ENGINE AR-CORE

168 BRAKE KW (225 BHP) AT 2200-2500 RPM

SMCS-1000

i01575066

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
			198-3341						
Y	101-4540	1	ELECTRONICS GP-ENGINE RATINGS						
			GEAR GP-FRONT						126
			S/N: BEJ1-201						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ202-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9635	1	TURBOCHARGER GP						345
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

198-3455 ENGINE AR-CORE

186 BRAKE KW (250 BHP) AT 2200-2500 RPM

SMCS-1000

i01594917

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
	198-3339	1	ELECTRONICS GP-ENGINE RATINGS						
Y	101-4540	1	GEAR GP-FRONT						126
			S/N: BEJ1-201						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ202-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9635	1	TURBOCHARGER GP						345
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

198-3456 ENGINE AR-CORE 205 BRAKE KW (275 BHP) AT 2100-2400 RPM

SMCS-1000

i01595043

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
			198-3338						
Y	101-4540	1	ELECTRONICS GP-ENGINE RATINGS						
			GEAR GP-FRONT						126
			S/N: BEJ1-200						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ201-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	199-6064	1	TURBOCHARGER GP						341
			S/N: BEJ1-161						
Y	201-9635	1	TURBOCHARGER GP						345
			S/N: BEJ162-UP						
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

198-3457 ENGINE AR-CORE

186 BRAKE KW (250 BHP) AT 1800-2100 RPM

SMCS-1000

i01595044

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
	198-3340	1	ELECTRONICS GP-ENGINE RATINGS						
Y	101-4540	1	GEAR GP-FRONT						126
			S/N: BEJ1-201						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ202-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9634	1	TURBOCHARGER GP						344
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

198-3458 ENGINE AR-CORE

149 BRAKE KW (200 BHP) AT 1800-2100 RPM

SMCS-1000

i01566484

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
			198-3342						
			ELECTRONICS GP-ENGINE RATINGS						
Y	101-4540	1	GEAR GP-FRONT						126
			S/N: BEJ1-198						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ199-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9634	1	TURBOCHARGER GP						344
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

198-3461 ENGINE AR-CORE

130/149 BRAKE KW (175/208 BHP) AT 2200-2500 RPM

SMCS-1000

i01575114

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
	198-3343	1	ELECTRONICS GP-ENGINE RATINGS						
Y	101-4540	1	GEAR GP-FRONT						126
			S/N: BEJ1-201						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ202-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
Y	177-7500	6	PISTON & ROD GP						168
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-6343	6	PUMP GP-UNIT INJECTION						368
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9634	1	TURBOCHARGER GP						344
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

205-3734 ENGINE AR-CORE

SMCS-1000

i01594385

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
	205-4592	1	ELECTRONICS GP-ENGINE RATINGS						
Y	101-4540	1	GEAR GP-FRONT						126
			S/N: BEJ1-201						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ202-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9635	1	TURBOCHARGER GP						345
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMFG PART MAY BE AVAILABLE

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

205-3735 ENGINE AR-CORE

SMCS-1000

i01590333

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
	205-4594	1	ELECTRONICS GP-ENGINE RATINGS						
Y	101-4540	1	GEAR GP-FRONT						126
			S/N: BEJ1-201						
Y	200-4496	1	GEAR GP-FRONT						128
			S/N: BEJ202-UP						
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9635	1	TURBOCHARGER GP						345
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMFG PART MAY BE AVAILABLE

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

212-2271 ENGINE AR-CORE

S/N: BEJ314-UP

SMCS-1000

i01593356

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
	213-0459	1	ELECTRONICS GP-ENGINE RATINGS						
Y	200-4496	1	GEAR GP-FRONT						128
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9635	1	TURBOCHARGER GP						345
Y	135-2969	1	VALVE MECHANISM GP						235

R-REMG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

212-2272 ENGINE AR-CORE

S/N: BEJ341-UP

SMCS-1000

i01593358

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	161-4276	1	CAMSHAFT GP						25
Y	117-3643	1	COOLER GP-ENGINE OIL						280
Y	113-6087	1	CRANKSHAFT GP						50
YR	129-1165	1	CYLINDER BLOCK GP						54
Y	133-3742	1	CYLINDER HEAD GP						58
	213-0461	1	ELECTRONICS GP-ENGINE RATINGS						
Y	200-4496	1	GEAR GP-FRONT						128
Y	133-5055	1	HOUSING GP-FRONT						142
YR	161-8420	6	PISTON & ROD GP						167
Y	115-4138	1	PUMP GP-ENGINE OIL						269
Y	178-0198	6	PUMP GP-UNIT INJECTION						366
Y	205-4194	1	PUMP GP-UNIT INJECTOR HYD						371
Y	201-9635	1	TURBOCHARGER GP						345
Y	135-2969	1	VALVE MECHANISM GP						235

R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION

BASIC ENGINE

148-7232 ADAPTER GP-AUXILIARY DRIVE

550 LB/FT OF TORQUE

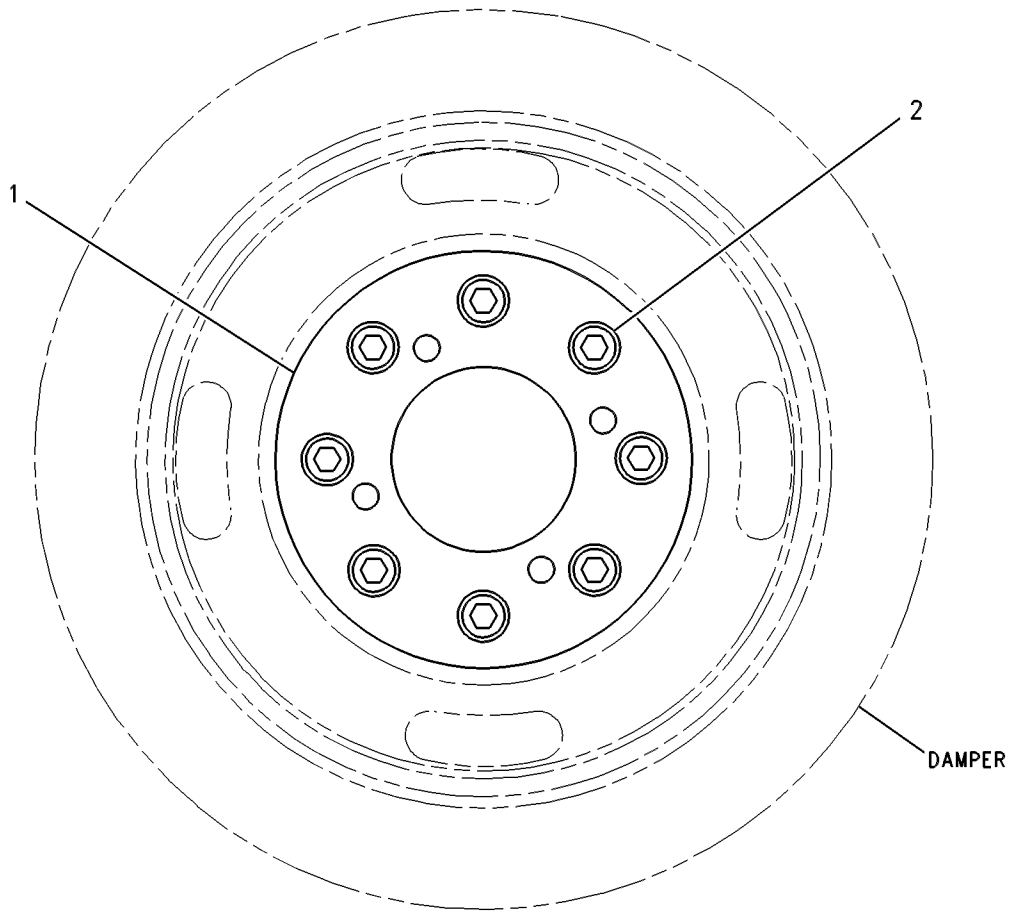
FOR USE WITH CUSTOMER SUPPLIED SPICER 1350 SERIES YOKE, 165-6934—PAGE 71
AN ATTACHMENT

SMCS-1165, 1207

i00799136

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	148-7231	1	ADAPTER						
M	2	1	8T-1160	8	BOLT-SOCKET HEAD (M10X1.5X50MM)						

M-METRIC PART



GRAPHIC #1

g00290352

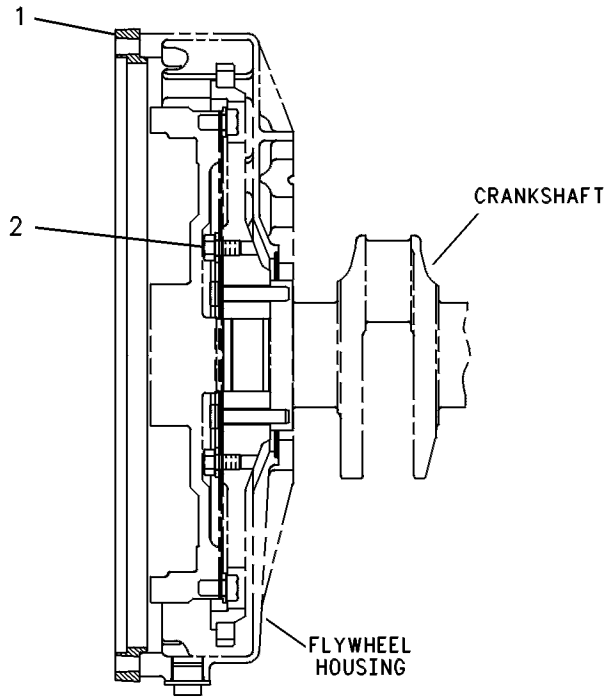
BASIC ENGINE

107-2781 ADAPTER GP-ENGINE TO TMSN FOR USE WITH SAE #1 FLYWHEEL HOUSING, 121-8786-PAGE 108 AN ATTACHMENT

SMCS-1004, 1157

i00644743

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-0229	1	ADAPTER-FLYWHEEL HOUSING						
	2	1	0T-0598	12	BOLT (1/2-20X.875 IN)						



GRAPHIC #1

g00244165

BASIC ENGINE

108-4923 ADAPTER GP-ENGINE TO TMSN FOR USE WITH SPACERLESS TRANSMISSIONS, 117-3440-PAGE 19 AN ATTACHMENT

SMCS-1004, 1157

i00810781

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	0S-1594	6	BOLT (3/8-16X1IN)						
	108-4918	1	RING						
	5M-2894	6	WASHER (2.5MM THK)						

BASIC ENGINE

117-0508 ADAPTER GP-ENGINE TO TMSN

12 VOLT

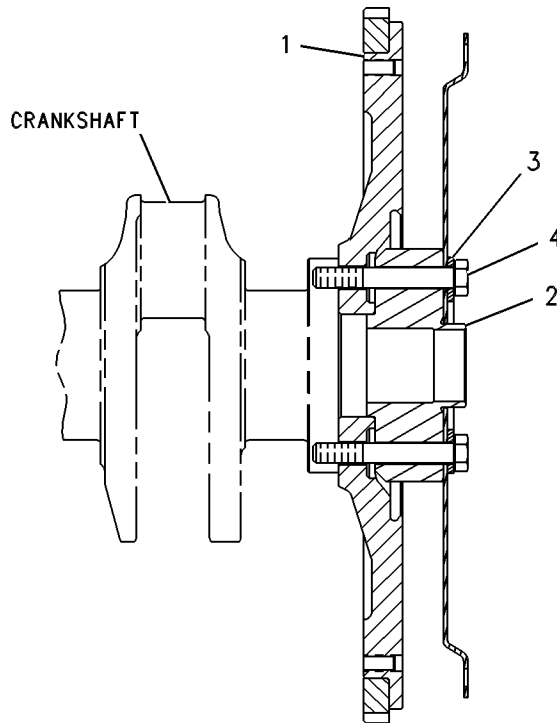
FOR USE WITH SPACER, SAE #2 FLYWHEEL HOUSING, 121-8786-PAGE 108
AN ATTACHMENT

SMCS-1004, 1157

i00810996

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	126-5875	1	FLYWHEEL AS						
		1	7W-5095	1	GEAR-FLYWHEEL (134 TEETH)						
	2	1	4P-7348	1	HUB						
	3	1	4P-7349	1	PLATE-SCUFF						
M	4	1	9X-2496	8	BOLT						

M-METRIC PART



GRAPHIC #1

g00256462

BASIC ENGINE

117-3440 ADAPTER GP-ENGINE TO TMSN

12 VOLT. FLEX PLATE AND HUB

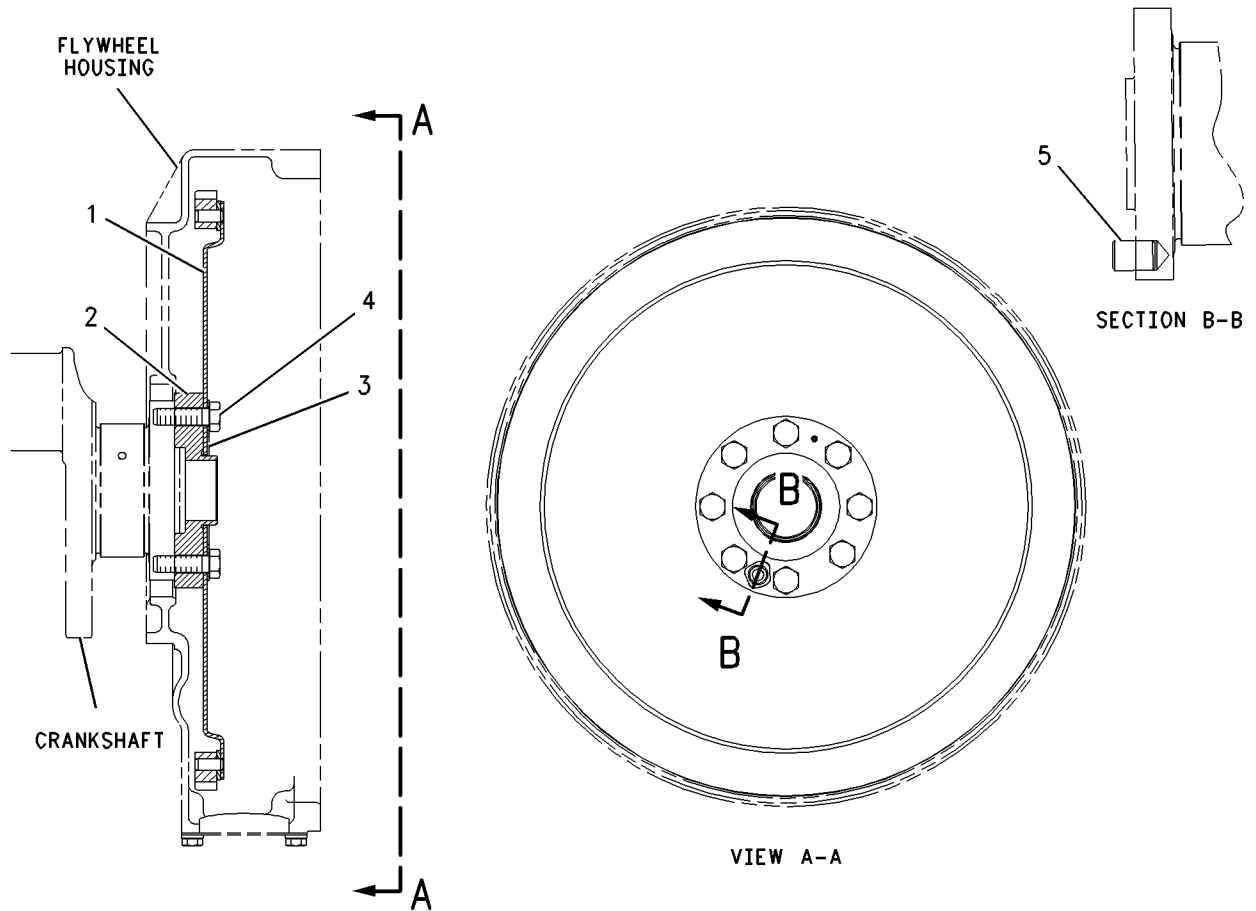
FOR USE WITH 132-2107—PAGE 139, SPACERLESS TRANSMISSION, 121-8786—PAGE 108
AN ATTACHMENT

SMCS-1004, 1157

i01406702

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	117-3441	1	ADAPTER GP-ENGINE TO TMSN						
	2	1	175-2169	1	HUB						
		1	096-0014	1	PIN-SPRING						
	3	1	175-2171	1	PLATE-SCUFF						
M	4	1	6V-7611	8	BOLT (M12X1.75X40MM)						
	5	1	3E-3213	1	PIN-SPRING						

M-METRIC PART



GRAPHIC #1

g00740442

BASIC ENGINE

124-7786 BELT TENSIONER GP

CANNOT BE USED WITH CUSTOMER SUPPLIED REFRIGERANT COMPRESSOR
AN ATTACHMENT

SMCS-1358

i01154988

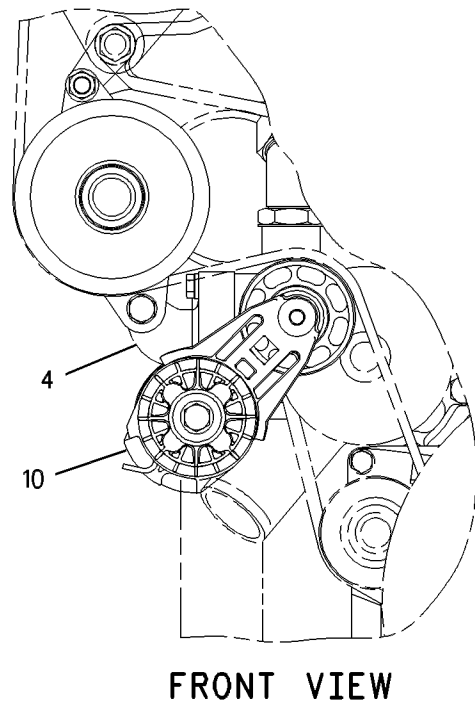
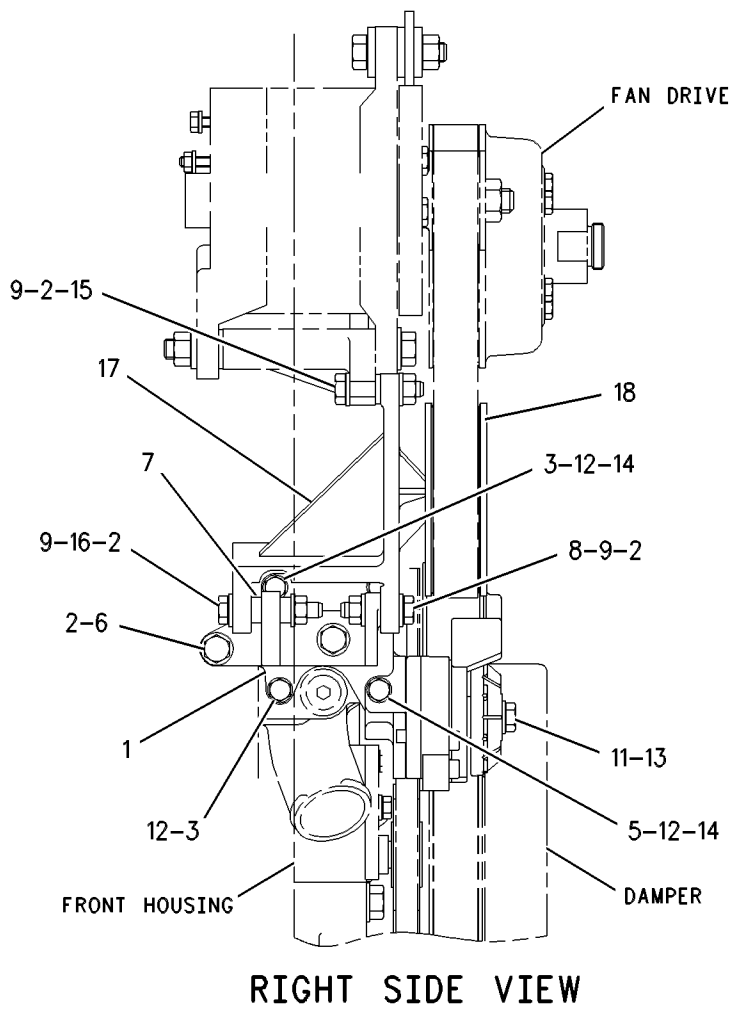
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	120-7387	1	BRACKET-MOUNTING						
	2	1	8T-4121	8	WASHER (2.5MM THK)						
M	3	1	6V-5219	3	BOLT (M8X1.25X40MM)						
	4	1	123-1719	1	SUPPORT-COMPRESSOR						
M	5	1	8C-5748	1	BOLT (M8X1.25X55MM)						
M	6	1	8T-4195	2	BOLT (M10X1.50X30MM)						
	7	1	7E-3443	1	BUSHING-TERMINAL						
M	8	1	8T-4186	1	BOLT (M10X1.50X40MM)						
M	9	1	8T-4133	3	NUT (M10X1.50 THD)						
	10	1	135-2151	1	TENSIONER-BELT						
M	11	1	8T-0643	1	BOLT (M10X1.50X80MM)						
	12	1	9M-1974	4	WASHER-HARD (2MM THK)						
	13	1	6V-5839	1	WASHER (2.5MM THK)						
	14	1	7W-3872	2	SLEEVE						
M	15	1	8T-4185	1	BOLT (M10X1.5X50MM)						
M	16	1	8T-6466	1	BOLT (M10X1.50X60MM)						
	17	1	175-3225	1	BRACKET-PULLEY						
Y	18	1	175-3223	1	PULLEY AS-IDLER						178

M - METRIC PART
Y - SEPARATE ILLUSTRATION

BASIC ENGINE

124-7786 BELT TENSIONER GP (contd.)

i01154988



GRAPHIC #1

g00613864

BASIC ENGINE

203-9715 BELT TIGHTENER GP

CANNOT BE USED WITH ALTERNATOR
AN ATTACHMENT

SMCS-1358

i01621870

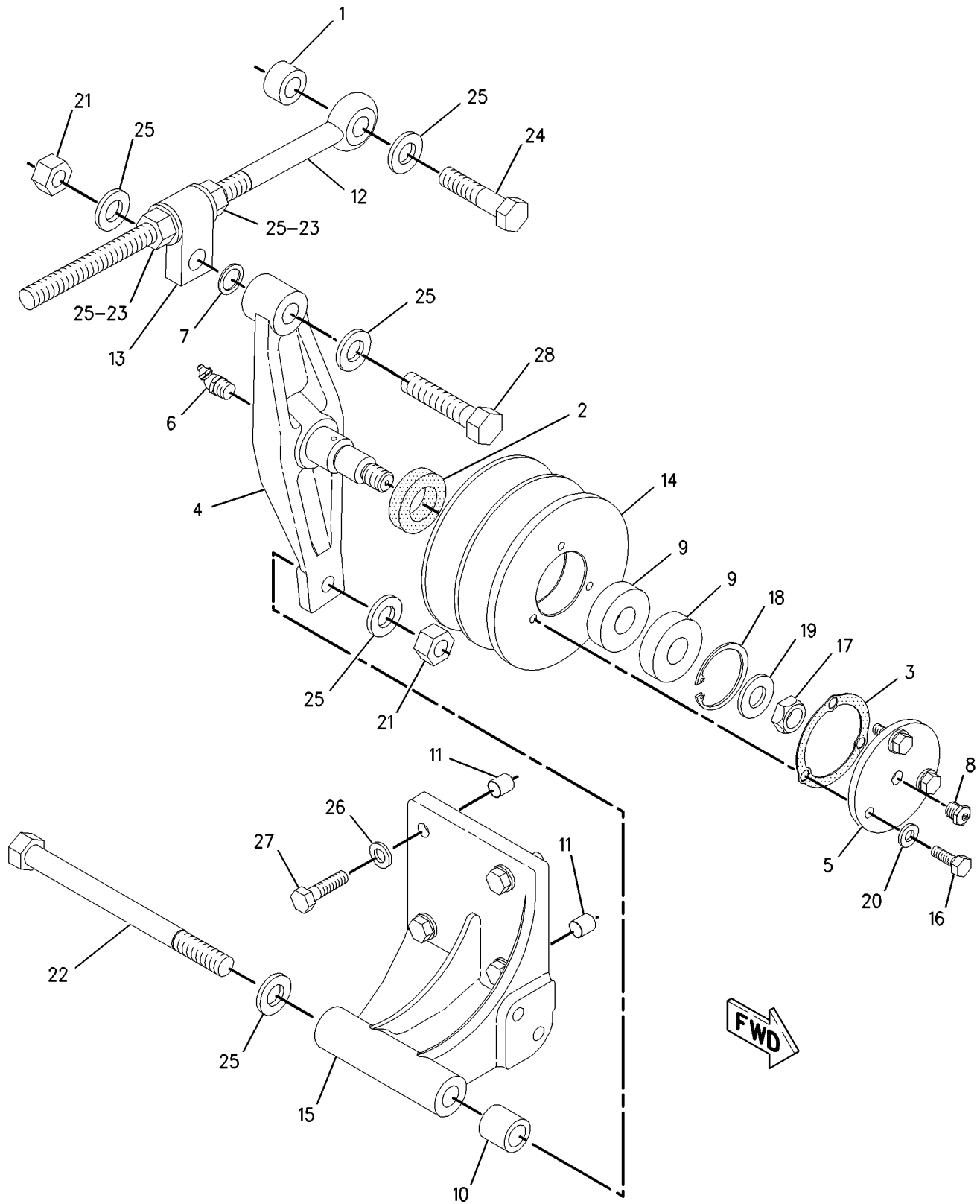
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1L-1486	1	SPACER (0.69X0.875X0.5 IN THK)						
	2	1	2B-0050	1	SEAL-LIP						
	3	1	2N-1330	1	GASKET						
	4	1	2N-1334	1	BRACKET AS						
	5	1	2N-1983	1	PLATE						
	6	1	3B-8485	1	FITTING-GREASE						
	7	1	7X-0584	1	WASHER-HARD (13.5X20.5X2MM THK)						
	8	1	4B-4550	1	FITTING-RELIEF (1/8-27 PTF)						
	9	1	6B-0924	2	BALL BEARING						
	10	1	7J-8417	1	PIPE						
	11	1	7W-3872	2	SLEEVE						
	12	1	9L-5134	1	ROD-ALTERNATOR ADJUSTMENT						
	13	1	9L-6329	1	BLOCK						
	14	1	117-8129	1	PULLEY						
	15	1	185-0832	1	BRACKET						
	16	1	0S-1615	3	BOLT (1/4-20X0.75 IN)						
	17	1	1K-6870	1	LOCKNUT (3/4-10 THD)						
	18	1	3K-9879	1	RING-RETAINING						
	19	1	4B-4280	1	WASHER (13.5X27X2.5MM THK)						
	20	1	5P-0537	3	WASHER-HARD (7.2X14.5X2MM THK)						
	21	1	6V-8188	2	NUT (1/2-13 THD)						
	22	1	7X-0339	1	BOLT (1/2-13X6.25 IN)						
	23	1	7X-3374	2	NUT-FULL (1/2-20 THD)						
M	24	1	8T-4194	1	BOLT (M12X1.75X50MM)						
	25	1	8T-4223	7	WASHER-HARD (13.5X25.5X3MM THK)						
	26	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	27	1	8T-7547	4	BOLT (M8X1.25X30MM)						
	28	1	9X-8278	1	BOLT						

M-METRIC PART

BASIC ENGINE

203-9715 BELT TIGHTENER GP (contd.)

i01621870



GRAPHIC #1

g00789005

BASIC ENGINE

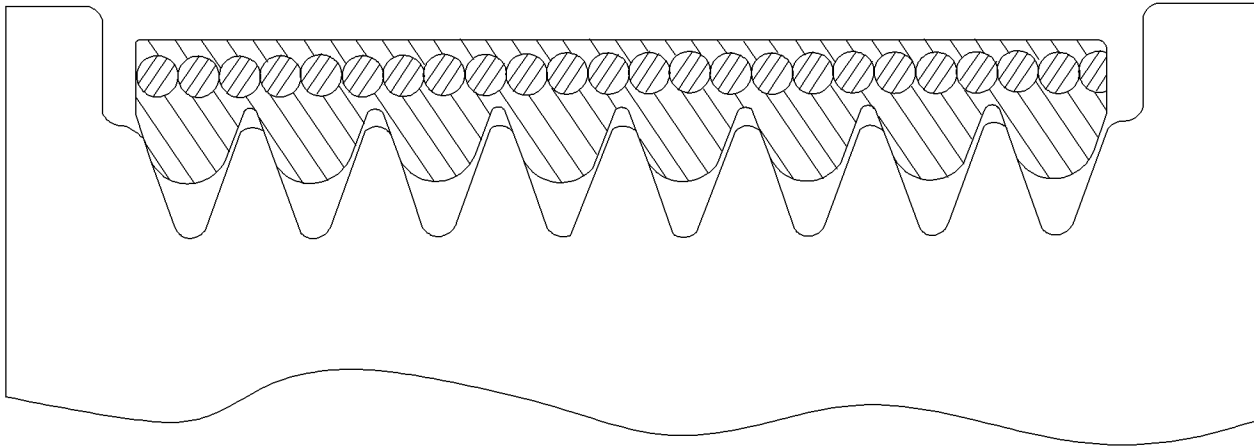
203-7765 BELT-RIBBED

1860 MM (73.2 IN) LONG. 8 GROOVE
FOR USE WITH POLY-VEE FAN DRIVE
AN ATTACHMENT

SMCS-1357

i01613100

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

g00835015

BASIC ENGINE

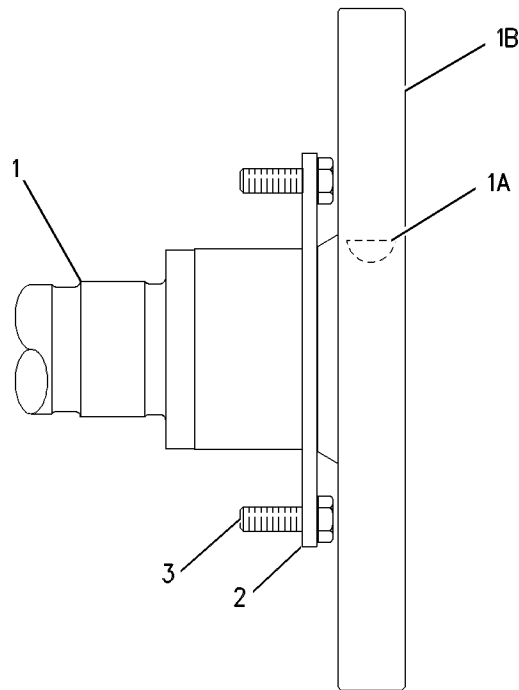
161-4276 CAMSHAFT GP

SMCS-1210

i01544275

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	205-1259	1	CAMSHAFT AS						
	1A	1	1B-8705	1	KEY-WOODRUFF						
	1B	1	107-7809	1	GEAR-CAMSHAFT (100 TEETH)						
	2	1	107-7694	1	PLATE-THRUST						
M	3	1	6V-3940	2	BOLT (M8X1.25X25MM)						

M-METRIC PART



GRAPHIC #1

g00602405

BASIC ENGINE

132-3844 CARRIER GP-SEAL

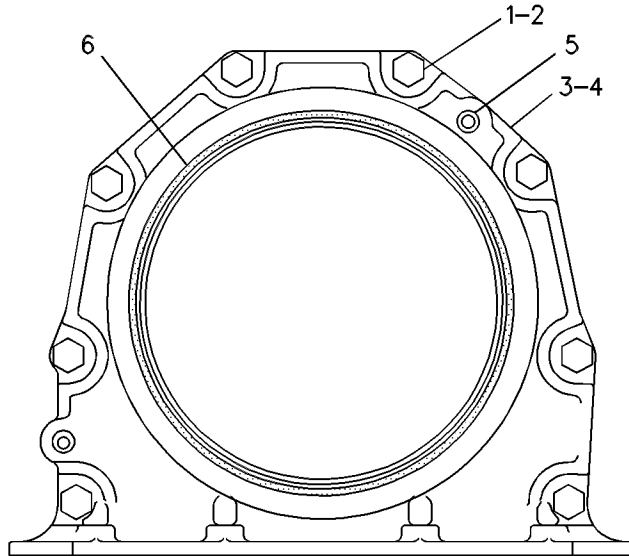
FOR USE WITH POSITIVE BUILD, 132-2104-PAGE 136. CANNOT BE USED WITH
132-2107-PAGE 139
AN ATTACHMENT

SMCS-1160, 1161

i00639760

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-3940	8	BOLT (M8X1.25X25MM)						
	2	1	9M-1974	8	WASHER-HARD (2MM THK)						
	3	1	2W-6546	1	COVER						
B	4	1	1U-8846		GASKET-LIQUID						
	5	1	6V-3538	2	DOWEL (20MM OAL)						
	6	1	8C-3091	1	SEAL-O-RING						

B-USE AS REQUIRED
M-METRIC PART



MOUNTED ON REAR OF CYLINDER BLOCK

GRAPHIC #1

g00108845

BASIC ENGINE

5N-3789 CLUTCH AS

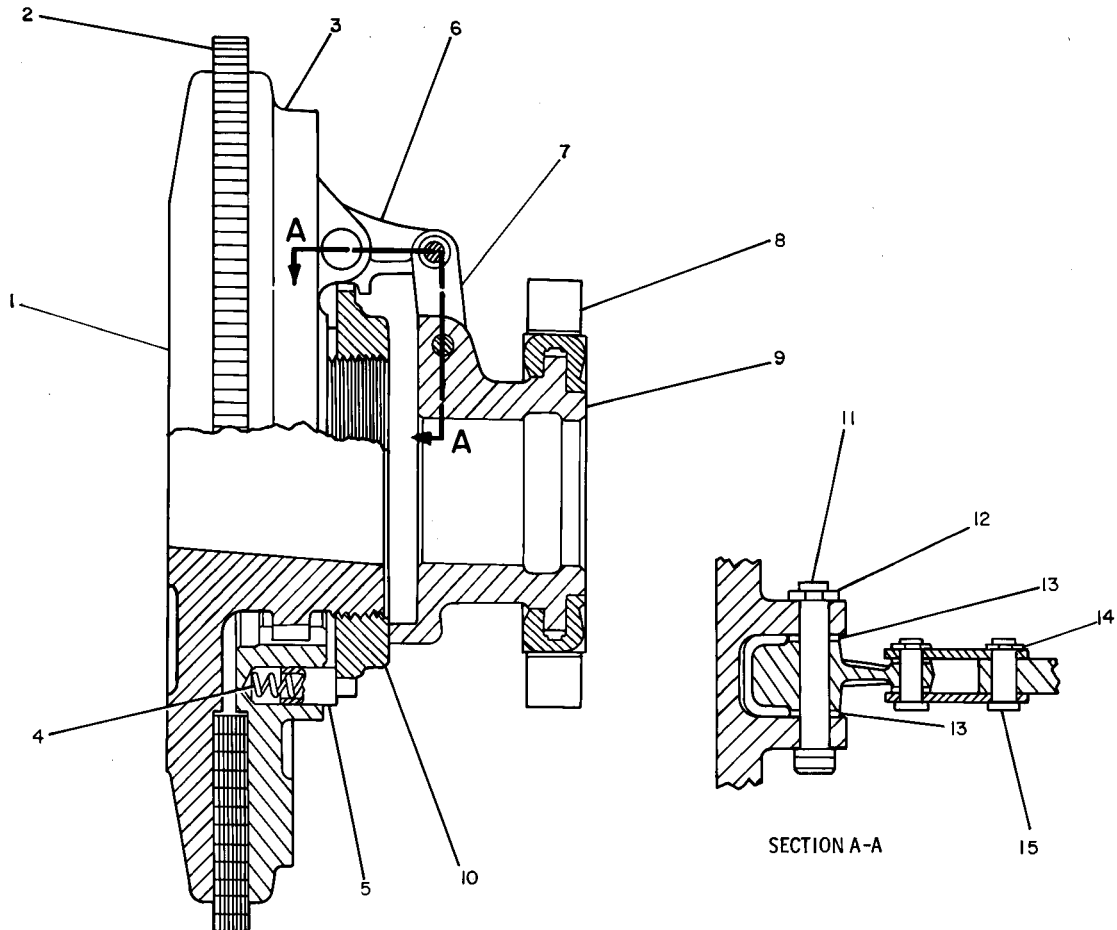
PART OF 4W-2650 CLUTCH GP
AN ATTACHMENT

SMCS-1007

i00646031

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2L-8256	1	PLATE-HUB & BACK						
	2	1	3N-7952	1	PLATE-DRIVE						
	3	1	3N-7953	1	PLATE AS						
	4	1	3N-7955	1	SPRING-LOCKPIN						
	5	1	3N-7954	1	LOCKPIN						
	6	1	2L-8259	3	LEVER						
	7	1	5B-5251	6	LINK						
	8	1	4B-4715	1	COLLAR AS						
		1	0L-0639	2	BOLT (3/8-24X2.25IN)						
		1	2L-6267	2	LOCKNUT (3/8-24 THD)						
B		1	4B-4722	2	SHIM						
	9	1	2L-8260	1	SLEEVE-SLIDING						
	10	1	2L-8262	1	RING-ADJUSTMENT						
	11	1	6L-3966	3	PIN						
	12	1	6L-3964	3	COTTER						
	13	1	5D-2751	6	WASHER-SPRING						
	14	1	6L-3960	6	COTTER						
	15	1	6L-3965	6	PIN						

B-USE AS REQUIRED



GRAPHIC #1

g00138685

BASIC ENGINE

3N-9097 CLUTCH GP PART OF 3N-9098 POWER TAKE-OFF GP-REAR AN ATTACHMENT

SMCS-1007

i00639200

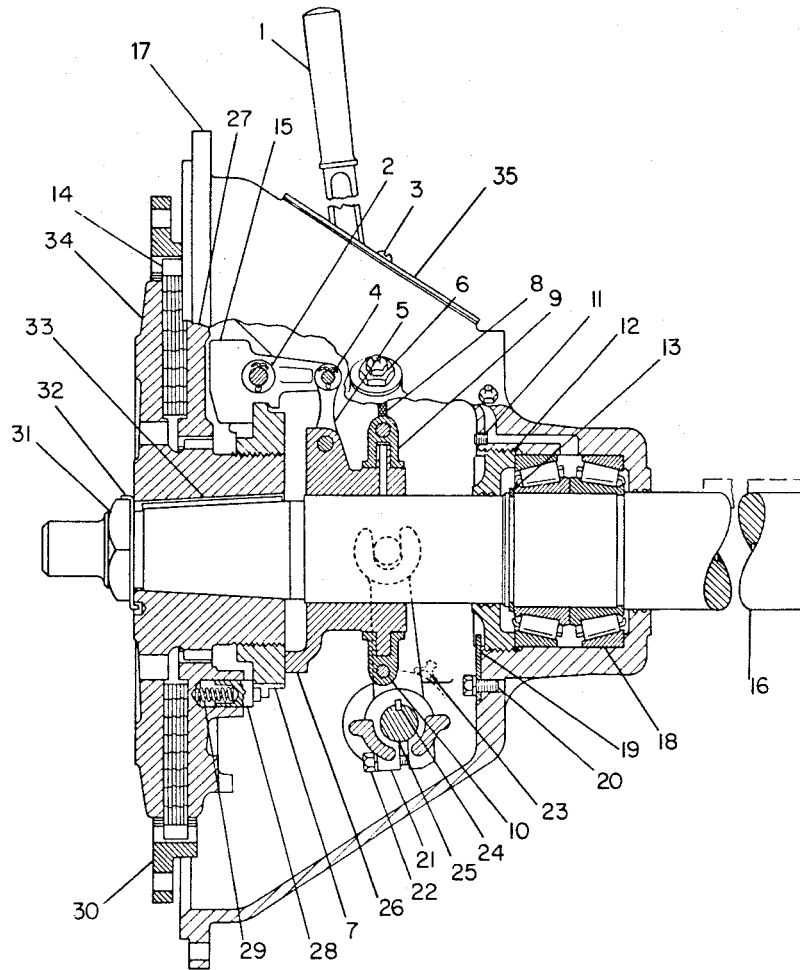
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4B-4810	1	LEVER AS-HAND						
		1	0S-1587	1	BOLT (1/2-13X1.75IN)						
	2	1	6L-3972	4	PIN						
		1	6L-3961	4	COTTER						
		1	1L-4863	8	WASHER-SPRING						
	3	1	1L-6931	2	SCREW AS-MACHINE						
	4	1	6L-3967	8	PIN						
		1	6L-3964	8	COTTER						
	5	1	4B-4721	8	LINK						
	6	1	3B-8489	2	FITTING-GREASE (1/8-27 THD)						
		1	9S-1354	1	NUT (5/8-18 THD)						
		1	6F-0253	1	LOCKWASHER						
	7	1	3H-9572	1	RING-ADJUSTMENT						
	8	1	5B-2410	1	HOSE AS						
	9	1	4B-4716	1	COLLAR AS-SLEEVE						
	10	1	0L-0639	2	BOLT (3/8-24X2.25IN)						
		1	2L-6267	2	LOCKNUT (3/8-24 THD)						
B		1	4B-4758	2	SHIM						
	11	1	2L-6010	1	PLUG-PIPE						
	12	1	4B-4782	1	RETAINER						
	13	1	3F-3729	1	RING-SNAP						
	14	1	4L-3527	1	PLATE-CLUTCH DRIVING						
	15	1	4H-0002	4	LEVER						
	16	1	3N-4086	1	SHAFT-CLUTCH						
	17	1	8B-1303	1	HOUSING-CLUTCH						
		1	108-3560	1	PLATE-WARNING						
	18	1	1B-3922	2	CUP-ROLLER BEARING						
		1	6B-3183	2	CONE-ROLLER BEARING						
	19	1	7L-0116	1	LOCK						
	20	1	2H-3755	1	BOLT (5/16-18X.625IN)						
		1	3F-9556	1	LOCKWASHER (8.4MM ID)						
	21	1	4B-4792	1	YOKE AS						
	22	1	0S-1591	2	BOLT (3/8-16X1.5IN)						
		1	3B-4506	2	LOCKWASHER						
	23	1	8B-7121	2	FITTING-HYDRAULIC						
	24	1	6L-5151	2	KEY-WOODRUFF						
	25	1	4B-4754	1	SHAFT-GOVERNOR CONTROL						
	26	1	1L-5517	1	SLEEVE-THROW-OUT						
	27	1	3N-8125	1	PLATE AS-PRESSURE						
	28	1	3N-8123	1	LOCKPIN						
	29	1	3N-8124	1	SPRING-LOCKPIN						
	30	1	5N-9316	1	RING-DRIVE						
	31	1	4B-4752	1	NUT						
	32	1	4B-4772	1	LOCK						
	33	1	5B-2417	1	KEY						
C	34	1	1L-5516	1	PLATE-CLUTCH						
	35	1	108-3633	1	PLATE-INSTRUCTION						

B- USE AS REQUIRED
C- CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

3N-9097 CLUTCH GP (contd.)

i00639200



GRAPHIC #1

g00240989

BASIC ENGINE

4P-2270 CLUTCH GP

PART OF 6I-0415 POWER TAKE-OFF GP-REAR
AN ATTACHMENT

SMCS-1007

i00638761

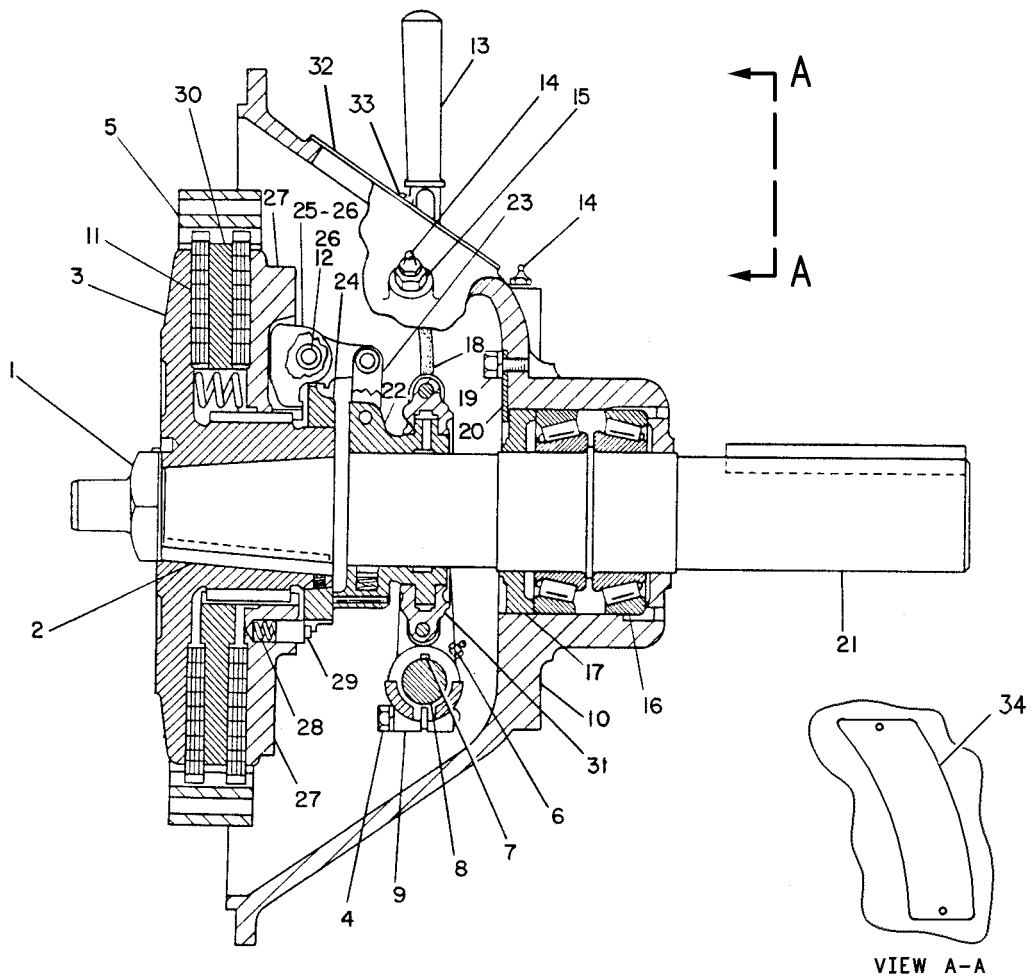
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5L-2017	1	NUT						
		1	5L-2026	1	LOCK						
	2	1	1N-7513	1	KEY						
	3	1	5L-2016	1	PLATE-HUB & BACK						
	4	1	0S-1591	2	BOLT (3/8-16X1.5IN)						
		1	9F-5644	2	LOCKWASHER (9.93MM ID)						
	5	1	2N-1372	1	RING-DRIVE						
	6	1	8B-7121	2	FITTING-HYDRAULIC						
	7	1	6L-5151	2	KEY-WOODRUFF						
	8	1	4B-4756	1	SHAFT-GOVERNOR CONTROL						
	9	1	1K-2673	1	YOKE-THROW-OUT						
	10	1	5L-9645	1	HOUSING						
	11	1	3N-7952	2	PLATE-DRIVE						
	12	1	5D-2751	6	WASHER-SPRING						
	13	1	4B-4787	1	LEVER AS						
		1	0S-1587	1	BOLT (1/2-13X1.75IN)						
	14	1	3B-8489	2	FITTING-GREASE (1/8-27 THD)						
	15	1	9S-1354	1	NUT (5/8-18 THD)						
		1	6F-0253	1	LOCKWASHER						
	16	1	2A-4576	2	CUP-ROLLER BEARING						
		1	5L-9656	2	CONE						
	17	1	5L-9648	1	RETAINER-BEARING						
	18	1	4B-4775	1	HOSE AS						
	19	1	2H-3755	1	BOLT (5/16-18X.625IN)						
		1	3F-9556	1	LOCKWASHER (8.4MM ID)						
	20	1	7L-0116	1	LOCK						
		1	5B-6159	1	SETSCREW-POINT						
	21	1	5N-6094	1	SHAFT-CLUTCH						
	22	1	5L-9647	1	SLEEVE-SLIDING						
	23	1	5B-5251	6	LINK						
		1	6L-3965	6	PIN						
		1	3B-4613	6	COTTER						
	24	1	2L-8262	1	RING-ADJUSTMENT						
	25	1	2L-8259	3	LEVER						
	26	1	6L-3966	3	PIN						
		1	3B-5301	3	COTTER						
	27	1	3N-7953	1	PLATE AS						
	28	1	3N-7955	1	SPRING-LOCKPIN						
	29	1	3N-7954	1	LOCKPIN						
	30	1	5L-2012	1	PLATE-CENTER						
	31	1	1K-2811	1	COLLAR AS						
		1	0L-0369	2	BOLT						
		1	2L-6267	2	LOCKNUT (3/8-24 THD)						
B		1	1K-3621	2	SHIM						
	32	1	108-3561	1	PLATE-INSTRUCTION						
	33	1	1H-3338	2	LOCKWASHER (6.64MM ID)						
		1	1S-7443	2	SCREW-MACHINE						
	34	1	108-3560	1	PLATE-WARNING						

B- USE AS REQUIRED

BASIC ENGINE

4P-2270 CLUTCH GP (contd.)

i00638761



GRAPHIC #1

g00241621

BASIC ENGINE

4P-3073 CLUTCH GP PART OF 4P-3074 POWER TAKE-OFF GP-REAR AN ATTACHMENT

SMCS-1007

i01509323

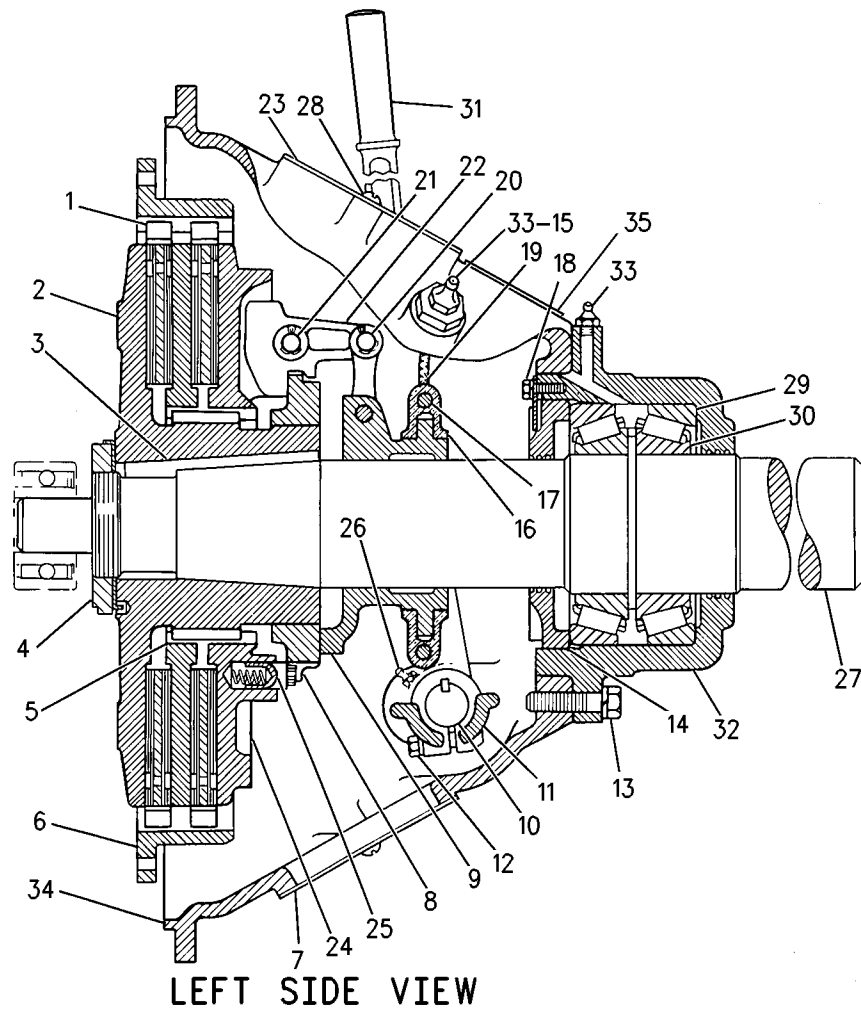
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4L-3527	2	PLATE-CLUTCH DRIVING						
	2	1	5L-9652	1	HUB						
	3	1	8B-7987	1	KEY						
	4	1	5L-9653	1	NUT						
		1	5L-9654	1	LOCK						
	5	1	3H-9571	1	PLATE-CENTER						
	6	1	5N-9317	1	RING-DRIVE						
	7	1	7F-8897	1	PLATE						
	8	1	3H-9572	1	RING-ADJUSTMENT						
	9	1	3H-9574	1	SLEEVE						
	10	1	4B-4754	1	SHAFT-GOVERNOR CONTROL						
		1	6L-5151	2	KEY-WOODRUFF						
	11	1	4B-4792	1	YOKE AS						
	12	1	0S-1591	2	BOLT (3/8-16X1.5 IN)						
		1	3B-4506	2	LOCKWASHER						
	13	1	1A-1460	6	BOLT (1/2-13X2 IN)						
		1	5P-8245	6	WASHER-HARD (13.5X25.5X3MM THK)						
	14	1	5L-9655	1	RETAINER-BEARING						
	15	1	9S-1354	1	NUT (5/8-18 THD)						
		1	6F-0253	1	LOCKWASHER						
	16	1	4B-4716	1	COLLAR AS-SLEEVE						
	17	1	0L-0639	2	BOLT (3/8-24X2.25IN)						
		1	2L-6267	2	LOCKNUT						
B		1	4B-4758	2	SHIM						
	18	1	0S-1617	1	BOLT (5/16-18X0.75 IN)						
		1	3F-9556	1	LOCKWASHER						
		1	5B-2407	1	LOCK						
	19	1	5B-2410	1	HOSE AS (38.1CM)						
	20	1	4B-4721	8	LINK						
		1	6L-3967	8	PIN						
		1	3B-5301	8	COTTER						
	21	1	6L-3972	4	PIN						
		1	3B-4627	4	COTTER						
		1	1L-4863	8	WASHER-SPRING						
	22	1	4H-0002	4	LEVER						
	23	1	108-3561	1	PLATE-INSTRUCTION (PTO)						
	24	1	3N-8125	1	PLATE AS-PRESSURE						
	25	1	3N-8124	1	SPRING-LOCKPIN						
		1	3N-8123	1	LOCKPIN						
	26	1	8B-7121	2	FITTING-HYDRAULIC						
	27	1	3N-4896	1	SHAFT-CLUTCH						
	28	1	1S-7443	4	SCREW-MACHINE						
		1	1H-3338	4	LOCKWASHER						
	29	1	6B-3223	2	CUP-BEARING						
	30	1	4B-7270	2	CONE-BEARING						
	31	1	4B-4810	1	LEVER AS-HAND						
	32	1	7F-8916	1	CARRIER-BEARING						
	33	1	3B-8489	2	FITTING-GREASE						
C	34	1	7W-7155	1	HOUSING-CLUTCH						
	35	1	108-3560	1	PLATE-WARNING						

B- USE AS REQUIRED
C- CHANGE FROM PREVIOUS TYPE

BASIC ENGINE

4P-3073 CLUTCH GP (contd.)

i01509323



GRAPHIC #1

g00783572

BASIC ENGINE

4W-2650 CLUTCH GP

PART OF 4W-2651 POWER TAKE-OFF GP-REAR
AN ATTACHMENT

SMCS-1007

i01421222

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5N-9315	1	RING-DRIVE						
	2	1	6L-3966	3	PIN						
		1	6L-3964	3	COTTER						
		1	5D-2751	6	WASHER-SPRING						
3	1	1	2L-8262	1	RING-ADJUSTMENT						
4	1	1	108-3561	1	PLATE-INSTRUCTION (PTO)						
		1	108-3560	1	PLATE-WARNING						
		1	1L-6931	2	SCREW AS-MACHINE						
5	1	1	4W-2652	1	LEVER AS-HAND						
		1	0S-1587	1	BOLT (1/2-13X1.75 IN)						
6	1	1	3B-8489	2	FITTING-GREASE						
7	1	1	9S-1354	1	NUT (5/8-18 THD)						
		1	6F-0253	1	LOCKWASHER						
8	1	1	4B-4775	1	HOSE AS (12.0IN)						
9	1	1	2H-3755	1	BOLT (5/16-18X0.62 IN)						
		1	3F-9556	1	LOCKWASHER						
10	1	1	7L-0116	1	LOCK						
11	1	1	5B-6159	1	SETSCREW-POINT						
12	1	1	5L-4202	1	HOUSING-CLUTCH						
13	1	1	6B-3224	2	CUP-BEARING						
14	1	1	4B-7255	2	CONE-BEARING						
15	1	1	4W-2649	1	SHAFT-CLUTCH						
16	1	1	2L-8259	3	LEVER						
17	1	1	1L-9087	1	KEY						
18	1	1	4B-4771	1	LOCK						
19	1	1	2L-8260	1	SLEEVE-SLIDING						
20	1	1	2N-9363	1	RETAINER-BEARING						
21	1	1	8B-7121	2	FITTING-HYDRAULIC						
22	1	1	4B-4715	1	COLLAR AS						
		1	0L-0639	2	BOLT (3/8-24X2.25IN)						
		1	2L-6267	2	LOCKNUT (3/8-24 THD)						
		1	4B-4722	2	SHIM						
23	1	1	6L-5151	2	KEY-WOODRUFF						
24	1	1	4B-4756	1	SHAFT-GOVERNOR CONTROL						
25	1	1	4B-4725	1	YOKE						
26	1	1	0S-1591	2	BOLT (3/8-16X1.5 IN)						
		1	9F-5644	2	LOCKWASHER						
27	1	1	6L-3965	6	PIN						
		1	6L-3960	6	COTTER						
28	1	1	5B-5251	6	LINK						
29	1	1	3N-7953	1	PLATE AS						
		1	3N-7954	1	LOCKPIN						
		1	3N-7955	1	SPRING-LOCKPIN						
30	1	1	3N-7952	1	PLATE-DRIVE						
31	1	1	2L-8256	1	PLATE-HUB & BACK						
32	1	1	2L-8257	1	NUT-HUB						

AVAILABLE REPAIR KIT(S) :

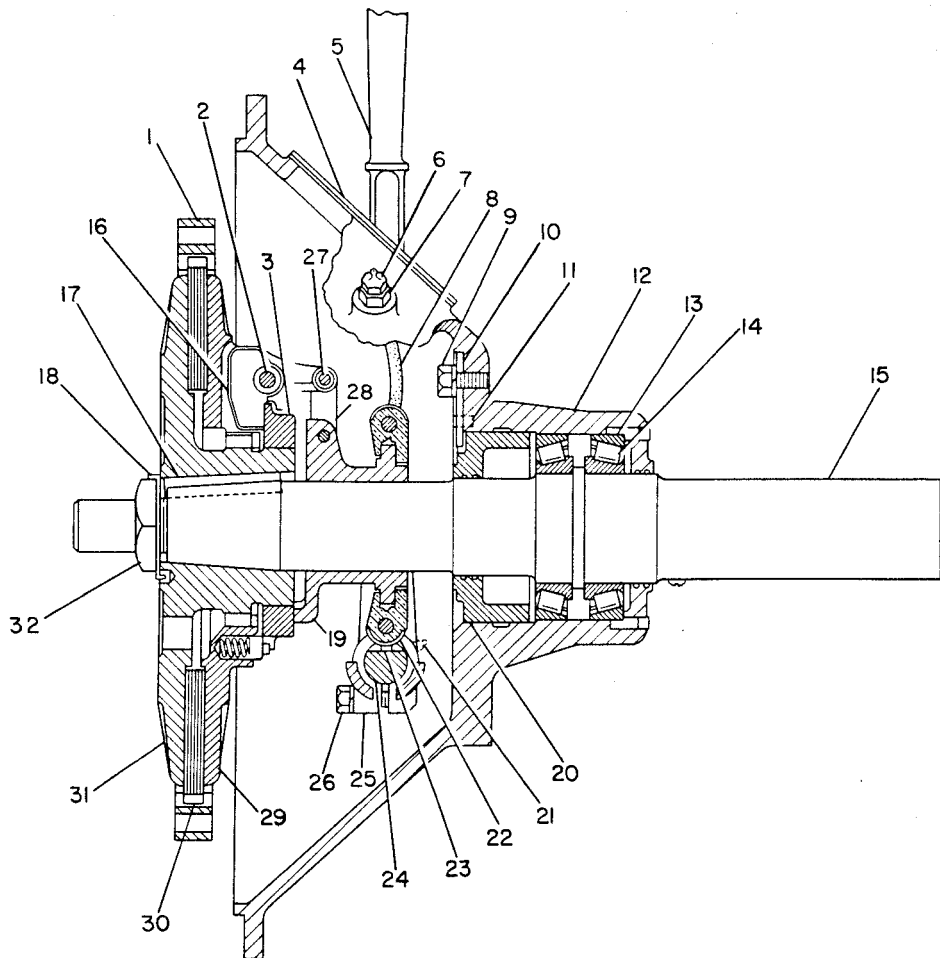
Y		5N-3789	1	CLUTCH AS	27
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Y-SEPARATE ILLUSTRATION

BASIC ENGINE

4W-2650 CLUTCH GP (contd.)

i01421222



GRAPHIC #1

g00164611

BASIC ENGINE

178-9570 COMPRESSOR GP-REFRIGERANT

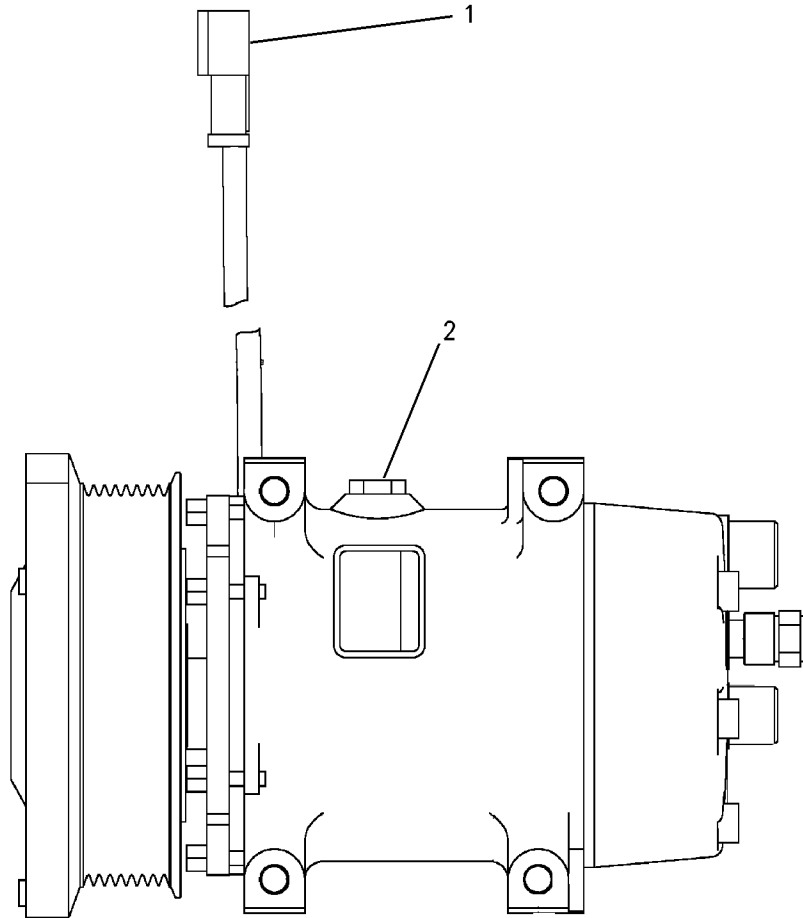
PART OF 204-1549 COMPRESSOR GP-REFRIGERANT

ALSO AN ATTACHMENT

SMCS-1802

i01477252

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
		1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)						
	2	1	7T-4532	1	PLUG AS						



GRAPHIC #1

g00777332

BASIC ENGINE

188-3507 COMPRESSOR GP-REFRIGERANT

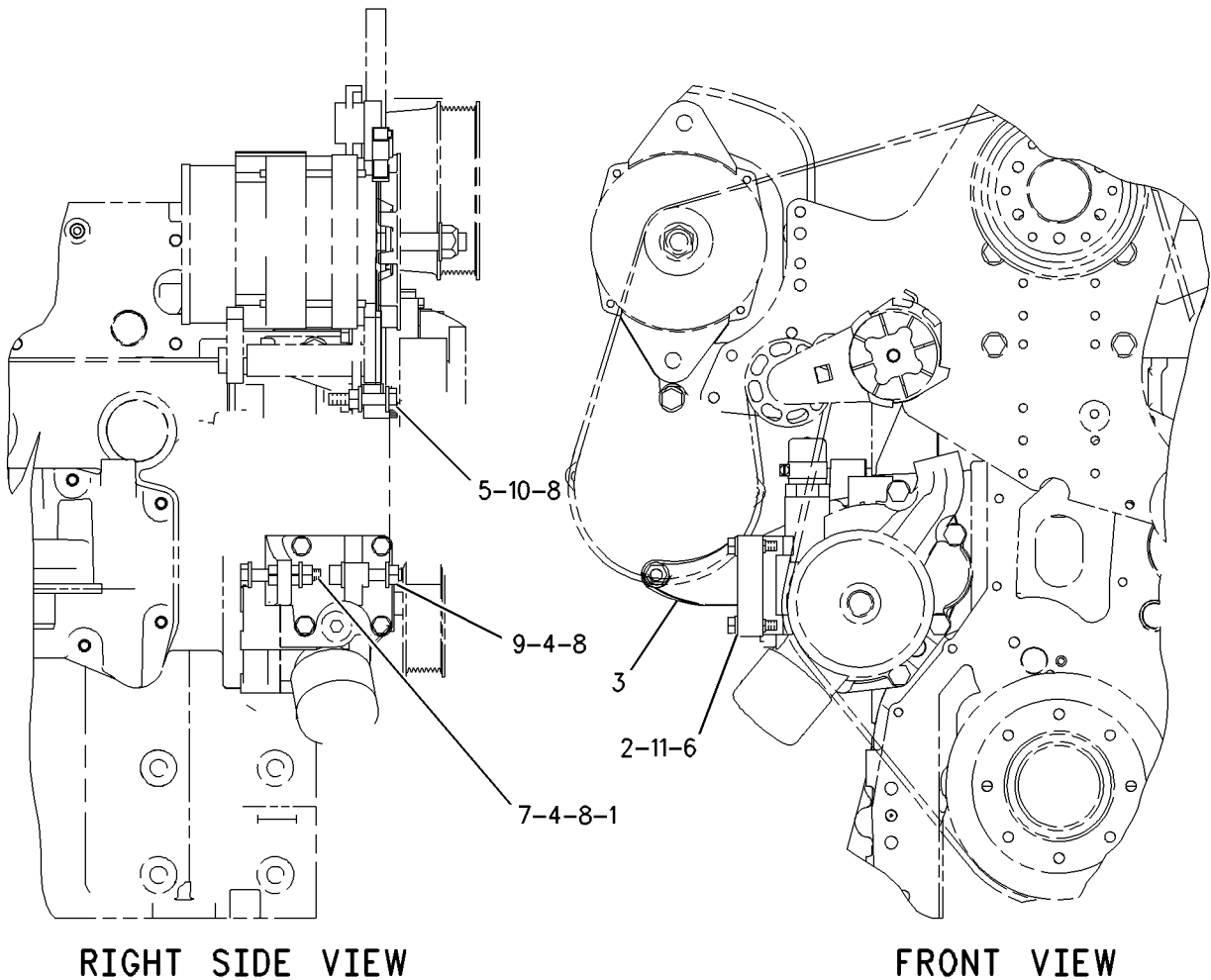
12 VOLT
AN ATTACHMENT

SMCS-1802

i01448307

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-3443	1	BUSHING-TERMINAL						
	2	1	7W-3872	2	SLEEVE						
	3	1	126-8237	1	SUPPORT-COMPRESSOR						
M	4	1	2Y-5829	2	NUT (M10X1.5 THD)						
M	5	1	6V-4249	1	BOLT (M10X1.5X50 MM)						
M	6	1	6V-5218	4	BOLT (M8X1.25X35MM)						
M	7	1	6V-5230	1	BOLT (M10X1.5X60MM)						
	8	1	6V-5839	6	WASHER (11X21X2.5MM THK)						
M	9	1	8T-1160	1	BOLT-SOCKET HEAD (M10X1.5X50MM)						
M	10	1	8T-4133	1	NUT (M10X1.5 THD)						
	11	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00758853

BASIC ENGINE

204-1549 COMPRESSOR GP-REFRIGERANT

FOR USE WITH FRONT DRIVE SYSTEM

ALSO AN ATTACHMENT

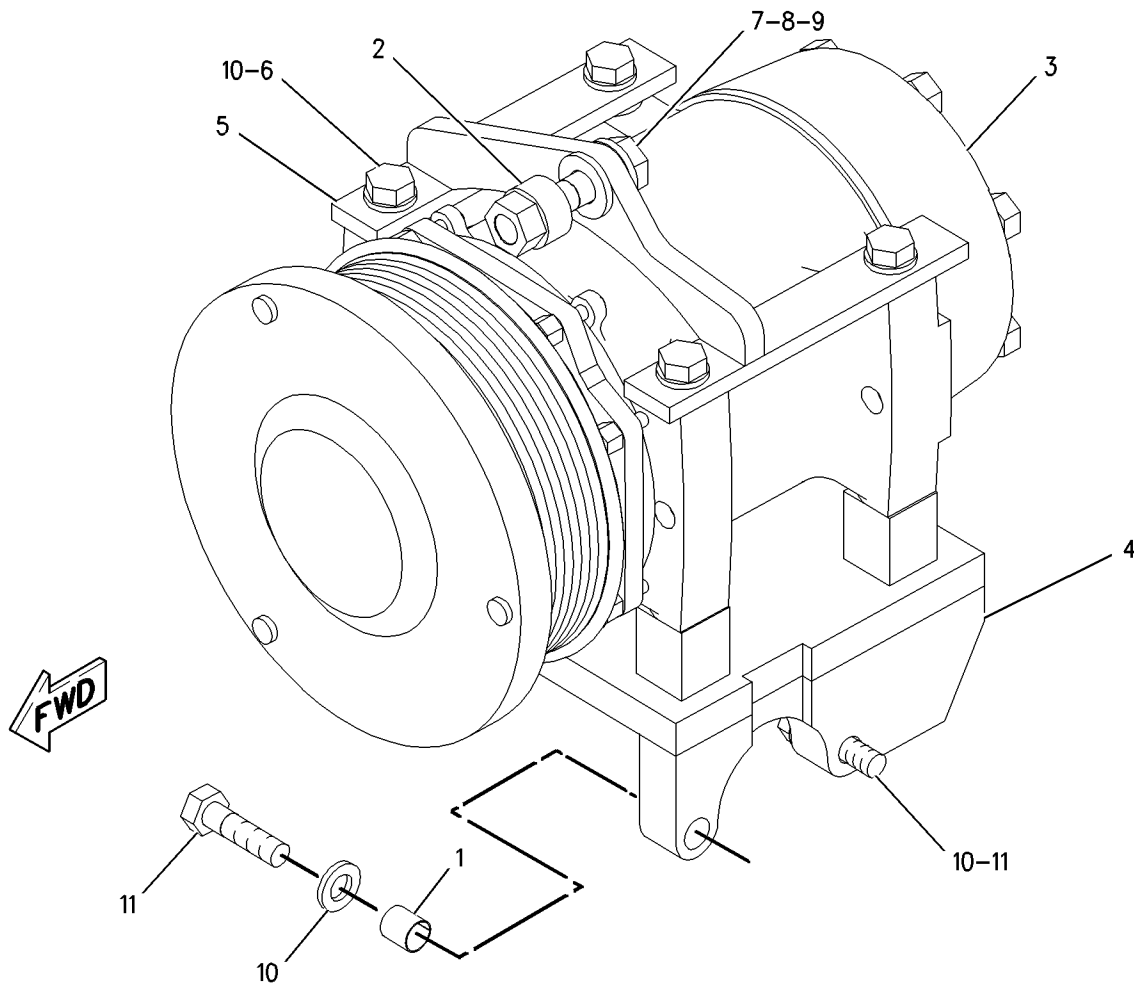
SMCS-1802

i01529553

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-3872	1	SLEEVE						
	2	1	124-2528	1	SPACER (10MM THK)						
Y	3	1	178-9570	1	COMPRESSOR GP-REFRIGERANT						36
	4	1	204-1544	1	SUPPORT AS						
	5	1	204-1548	1	SUPPORT AS						
M	6	1	7X-2538	4	BOLT (M8X1.25X100MM)						
	7	1	8T-4121	2	WASHER-HARD (11X21X2.5MM THK)						
M	8	1	8T-4133	1	NUT (M10X1.5 THD)						
M	9	1	8T-4182	1	BOLT (M10X1.5X45MM)						
	10	1	8T-4224	6	WASHER-HARD (8.8X16X2MM THK)						
M	11	1	8T-7547	2	BOLT (M8X1.25X30MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00794082

BASIC ENGINE

142-0369 COVER GP-CYLINDER BLOCK

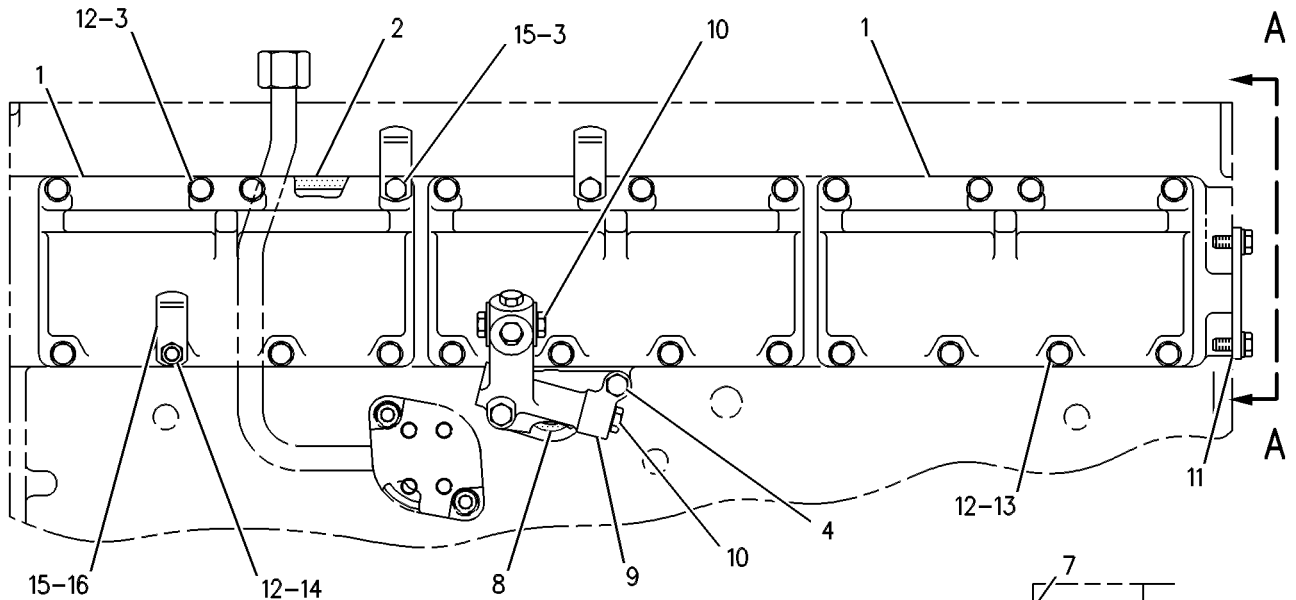
PROVIDES A BLOCK COVER WITHOUT REAR STUD AND WITHOUT OIL PRESSURE SWITCH
AN ATTACHMENT

SMCS-1201

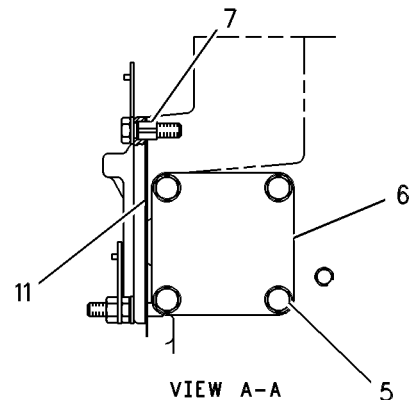
i01509614

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-3871	3	COVER-SIDE						
	2	1	4Y-9652	3	GASKET						
M	3	1	6V-2317	12	BOLT (M8X1.25X30MM)						
M	4	1	6V-5219	2	BOLT (M8X1.25X40MM)						
M	5	1	6V-5215	4	BOLT (M8X1.25X16MM)						
		1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	6	1	2W-6544	1	COVER						
	7	1	7W-3872	6	SLEEVE						
	8	1	4F-9029	1	SEAL						
	9	1	118-4329	1	MANIFOLD-OIL						
	10	1	8T-6765	5	PLUG-PIPE						
B	11	1	1U-8846		SEALANT-GASKET						
	12	1	9M-1974	22	WASHER-HARD (8.8X16X2MM THK)						
M	13	1	6V-5217	11	BOLT (M8X1.25X20MM)						
M	14	1	9X-2097	1	STUDBOLT (M8X1.25 THD)						
	15	1	4P-5918	3	CLIP						
M	16	1	5C-7261	1	NUT (M8X1.25 THD)						

B-USE AS REQUIRED
M-METRIC PART



LEFT SIDE VIEW



VIEW A-A

GRAPHIC #1

g00288727

BASIC ENGINE

193-4712 COVER GP-CYLINDER BLOCK

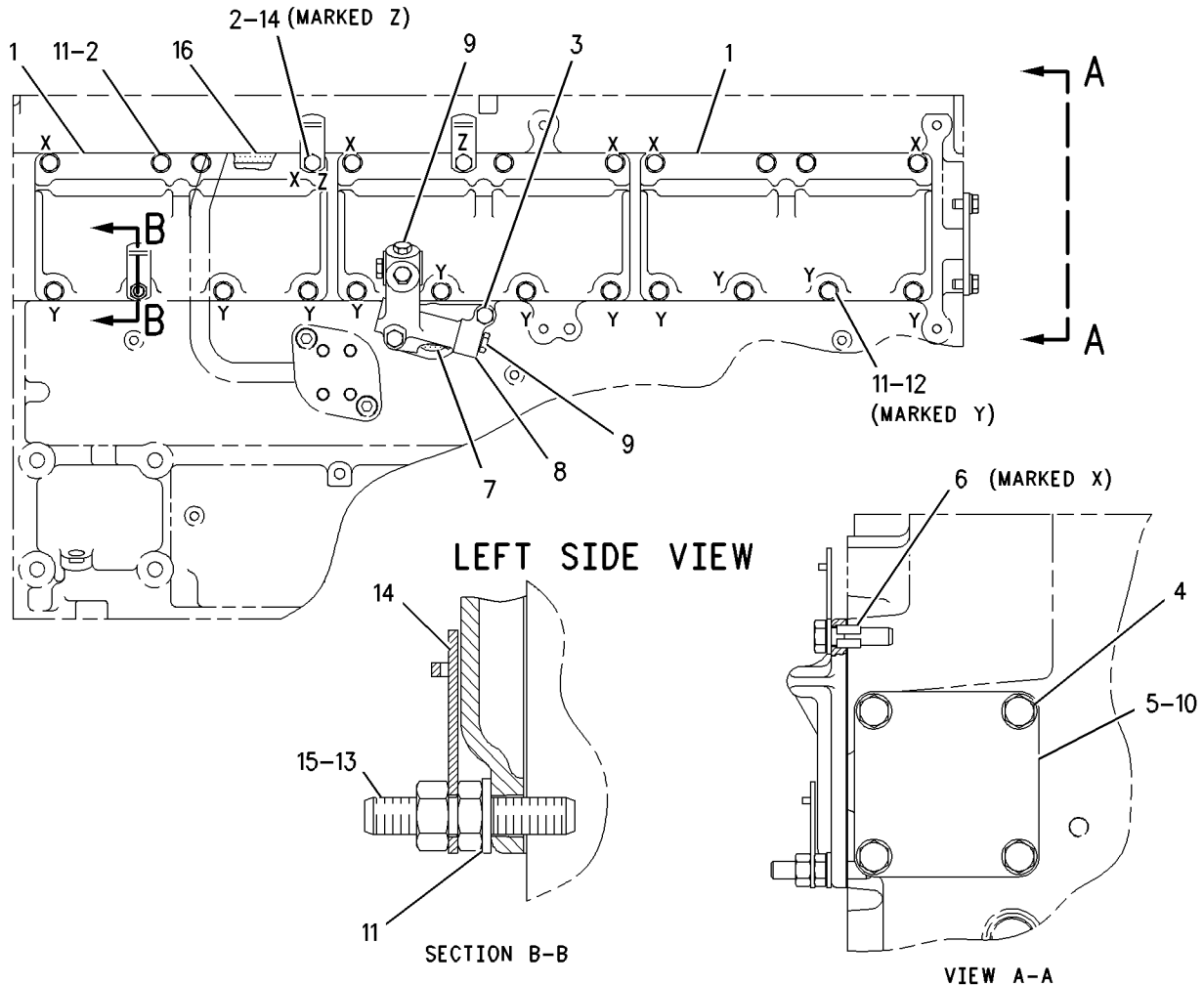
WITHOUT REAR STUD
AN ATTACHMENT

SMCS-1201

i01509648

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-3871	3	COVER-SIDE						
M	2	1	6V-2317	12	BOLT (M8X1.25X30MM)						
M	3	1	6V-5219	2	BOLT (M8X1.25X40MM)						
M	4	1	6V-5215	4	BOLT (M8X1.25X16MM)						
		1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	5	1	2W-6544	1	COVER						
	6	1	7W-3872	6	SLEEVE						
	7	1	4F-9029	1	SEAL						
	8	1	118-4329	1	MANIFOLD-OIL						
	9	1	8T-6765	4	PLUG-PIPE						
B	10	1	1U-8846		SEALANT-GASKET						
	11	1	9M-1974	22	WASHER-HARD (8.8X16X2MM THK)						
M	12	1	6V-5217	11	BOLT (M8X1.25X20MM)						
M	13	1	9X-2097	1	STUDBOLT (M8X1.25 THD)						
	14	1	4P-5918	3	CLIP						
M	15	1	5C-7261	1	NUT (M8X1.25 THD)						
	16	1	4Y-9652	3	GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00742720

BASIC ENGINE

205-2199 COVER GP-CYLINDER BLOCK

FOR USE WITH 202-2371-PAGE 448

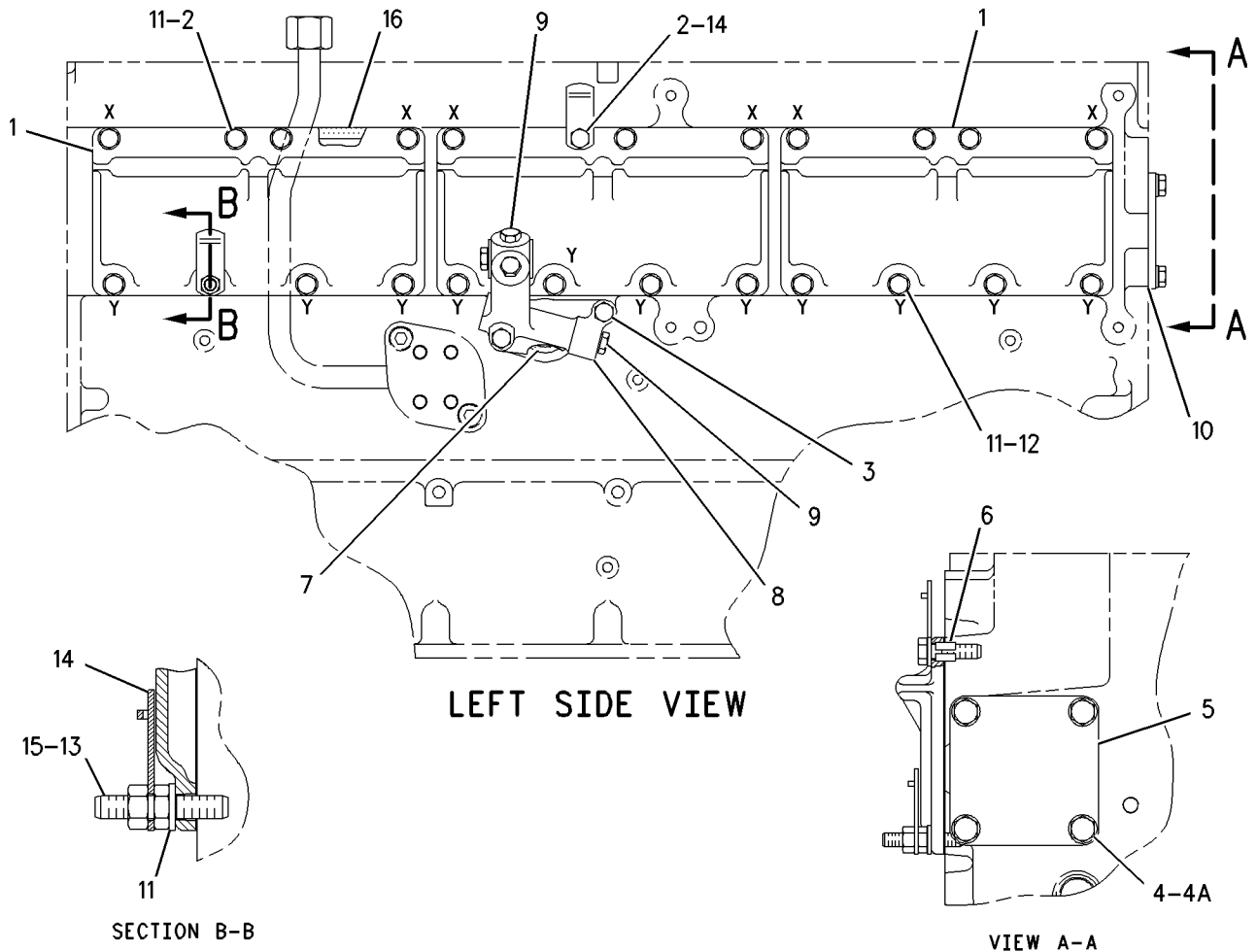
ALSO AN ATTACHMENT

SMCS-1201

i01503331

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-3871	3	COVER-SIDE						
M	2	1	6V-2317	12	BOLT (M8X1.25X30MM)						
M	3	1	6V-5219	2	BOLT (M8X1.25X40MM)						
M	4	1	6V-5215	4	BOLT (M8X1.25X16MM)						
	4A	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	5	1	2W-6544	1	COVER						
	6	1	7W-3872	6	SLEEVE (MARKED X)						
	7	1	4F-9029	1	SEAL						
	8	1	118-4329	1	MANIFOLD-OIL						
	9	1	8T-6765	4	PLUG-PIPE						
B	10	1	1U-8846		SEALANT-GASKET						
	11	1	9M-1974	23	WASHER-HARD (8.8X16X2MM THK)						
M	12	1	6V-5217	11	BOLT (M8X1.25X20MM) (MARKED Y)						
M	13	1	9X-2097	1	STUDBOLT (M8X1.25 THD)						
	14	1	4P-5918	2	CLIP						
M	15	1	5C-7261	1	NUT (M8X1.25 THD)						
	16	1	4Y-9652	3	GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00782413

BASIC ENGINE

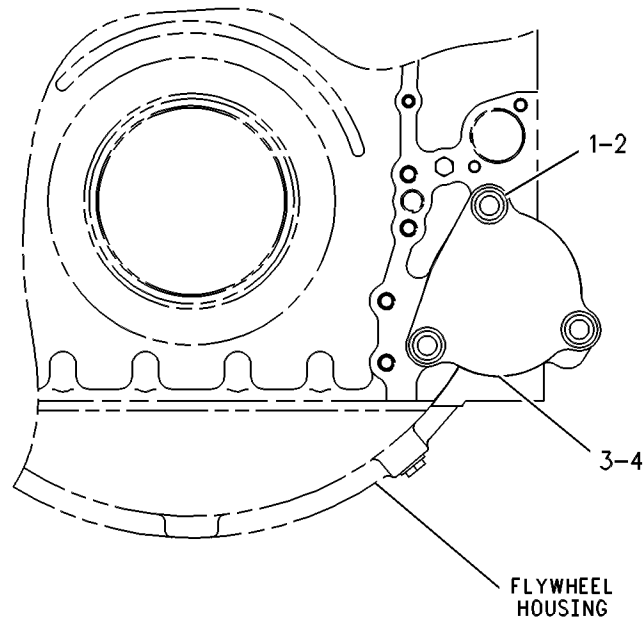
133-1209 COVER GP-FLYWHEEL HOUSING

CANNOT BE USED WITH ELECTRIC STARTING MOTORS
AN ATTACHMENT

SMCS-1157

i00840947

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8S-2332	3	BOLT-12 POINT HEAD (5/8-11X1.75IN)						
	2	1	4D-3704	3	WASHER-HARD (5MM THK)						
	3	1	4N-1114	1	COVER						
	4	1	4H-7869	1	GASKET						



FRONT VIEW

GRAPHIC #1

g00260698

BASIC ENGINE

118-1727 COVER GP-FRONT HOUSING

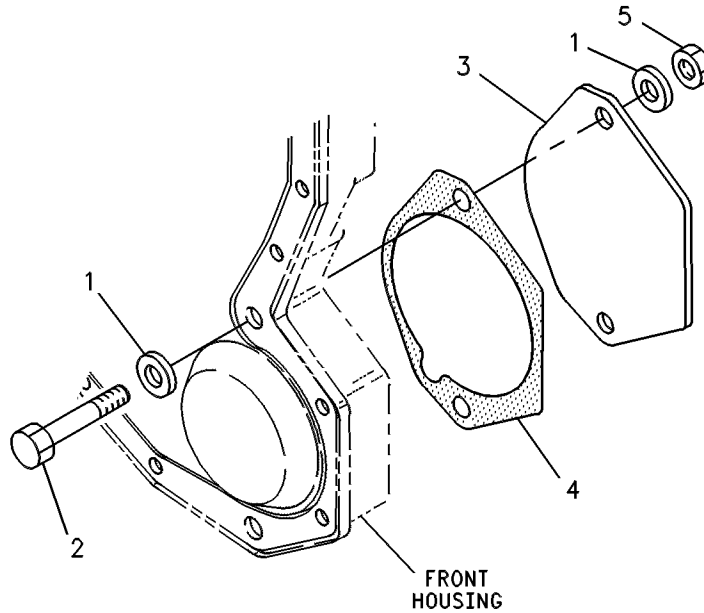
REQUIRED ON ENGINES WITH NO FACTORY INSTALLED AIR COMPRESSOR
ALSO AN ATTACHMENT

SMCS-1151, 1166

i00646946

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8245	4	WASHER (3MM THK)						
M	2	1	6V-5696	2	BOLT (M12X1.75X80MM)						
	3	1	4W-2026	1	COVER						
	4	1	135-9819	1	SEAL - INTEGRAL						
M	5	1	6V-8149	2	NUT (M12X1.75 THD)						

M-METRIC PART



GRAPHIC #1

g00245495

BASIC ENGINE

168-8639 COVER GP-FRONT HOUSING

REQUIRES FASTENER & FILLER OR COVER

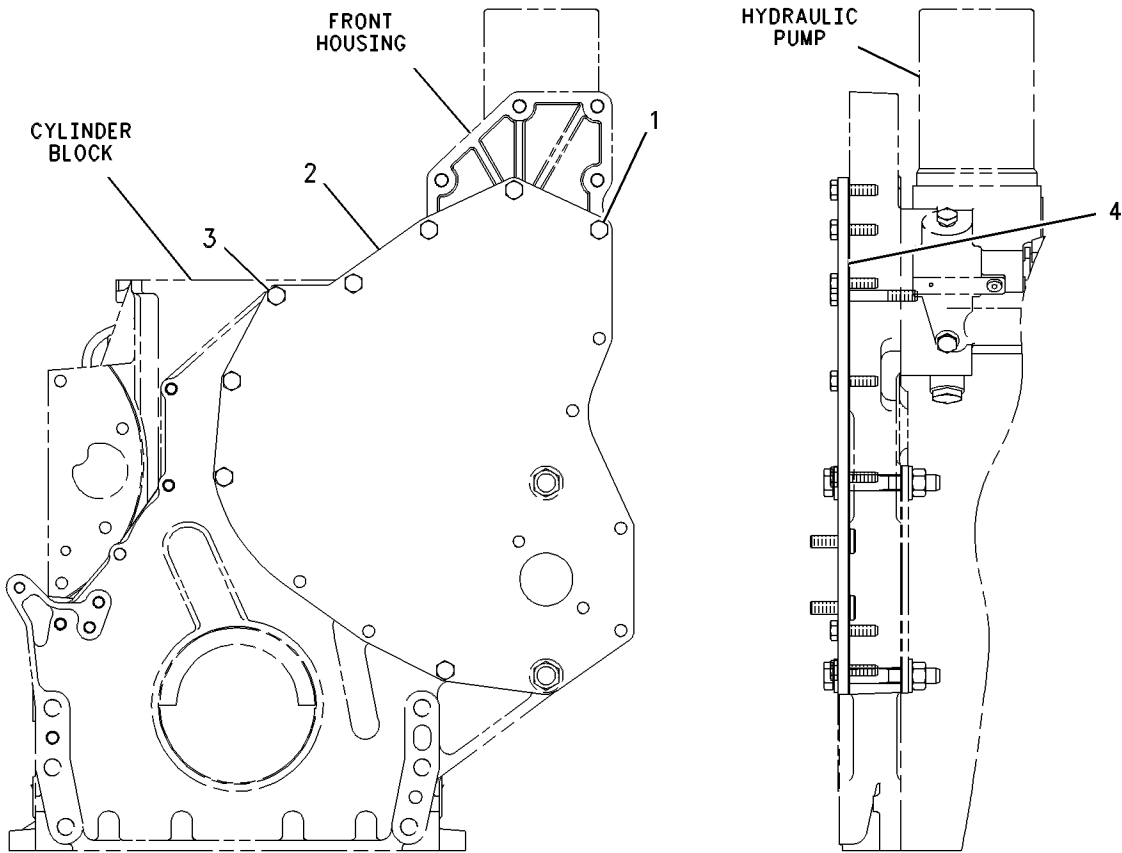
ALSO AN ATTACHMENT

SMCS-1151, 1166

i01112963

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-2317	7	BOLT (M8X1.25X30MM)						
	2	1	136-0823	1	COVER AS-FRONT						
			1	126-1757	2	WASHER-SEAL					
M			136-0822	2	STUD						
	3	1	8T-0100	1	BOLT (M8X1.25X60MM)						
	4	1	139-3526	1	GASKET						

M-METRIC PART



FRONT VIEW

LEFT SIDE VIEW

GRAPHIC #1

g00595204

BASIC ENGINE

135-5035 COVER GP-VALVE MECHANISM

REAR BREATHER, FRONT OIL FILL

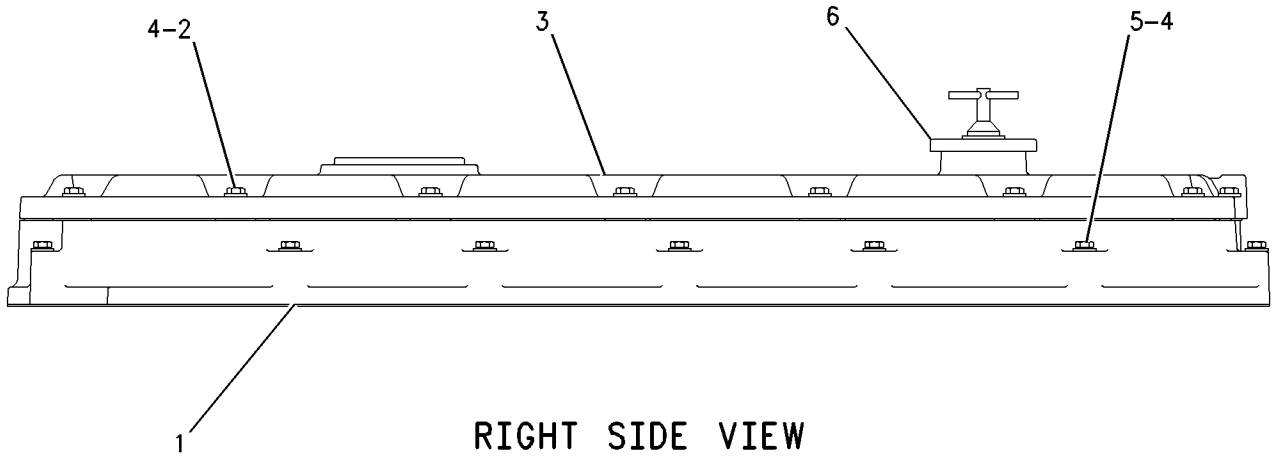
ALSO AN ATTACHMENT

SMCS-1107

i01478852

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8361	1	COVER AS-BASE						
BD		1	5P-5678		SEAL						
M	2	1	6V-2315	14	BOLT (M6X1X35MM)						
	3	1	167-8359	1	COVER AS-TOP						
BD		1	5P-5678		SEAL						
	4	1	5P-0537	28	WASHER-HARD (7.2X14.5X2MM THK)						
M	5	1	6V-7728	14	BOLT (M6X1.0X45MM)						
	6	1	2W-6225	1	CAP AS-OIL FILLER						

B-USE AS REQUIRED
D-ORDER BY THE METER
M-METRIC PART



GRAPHIC #1

g00770117

BASIC ENGINE

141-8269 COVER GP-VALVE MECHANISM

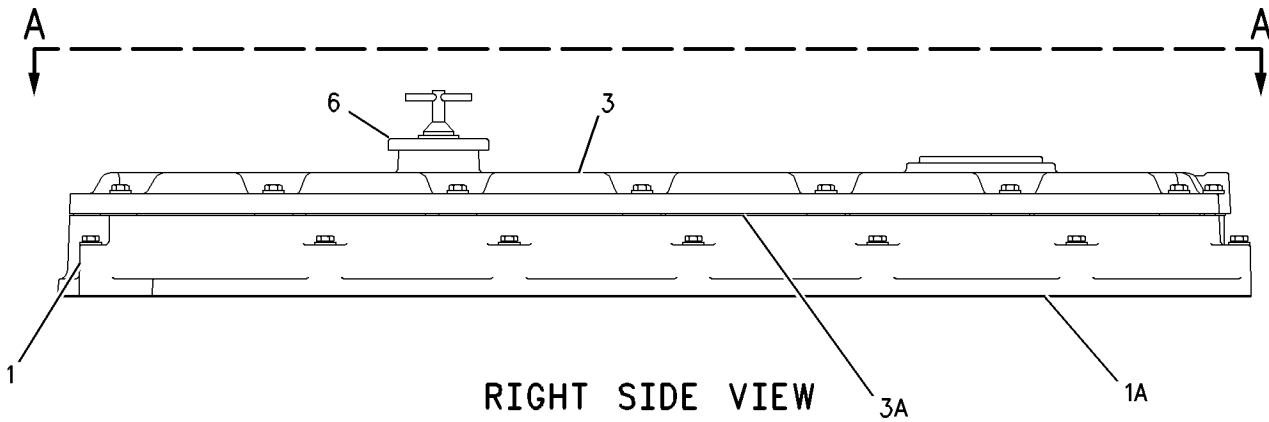
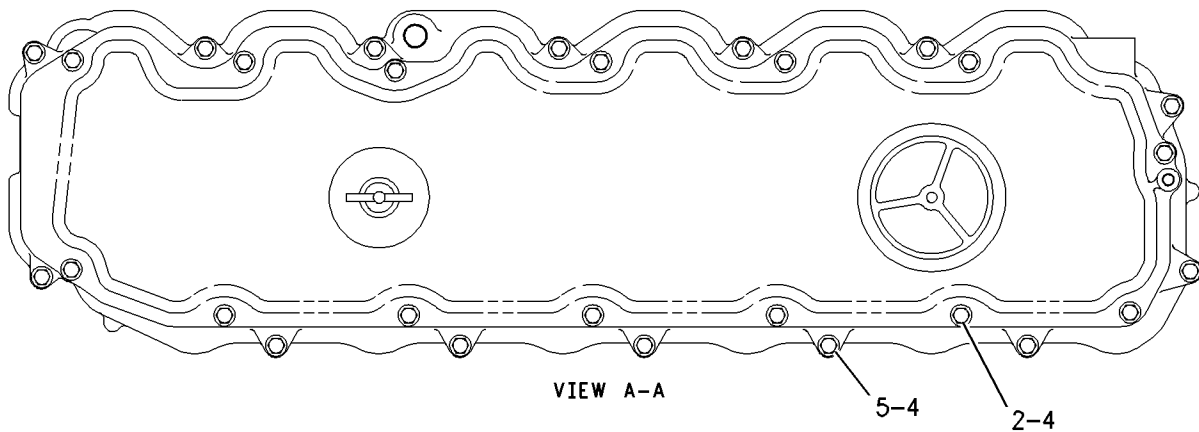
FRONT BREATHER, REAR OIL FILL
AN ATTACHMENT

SMCS-1107

i01478903

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8361	1	COVER AS-BASE						
D	1A	1	5P-5678		SEAL (2.0M)						
M	2	1	6V-2315	14	BOLT (M6X1X35MM)						
	3	1	172-6276	1	COVER AS-TOP						
D	3A	1	5P-5678		SEAL (2.0M)						
	4	1	5P-0537	28	WASHER-HARD (7.2X14.5X2MM THK)						
M	5	1	6V-7728	14	BOLT (M6X1.0X45MM)						
	6	1	2W-6225	1	CAP AS-OIL FILLER						

D- ORDER BY THE METER
M-METRIC PART



GRAPHIC #1

g00770131

BASIC ENGINE

141-8285 COVER GP - VALVE MECHANISM

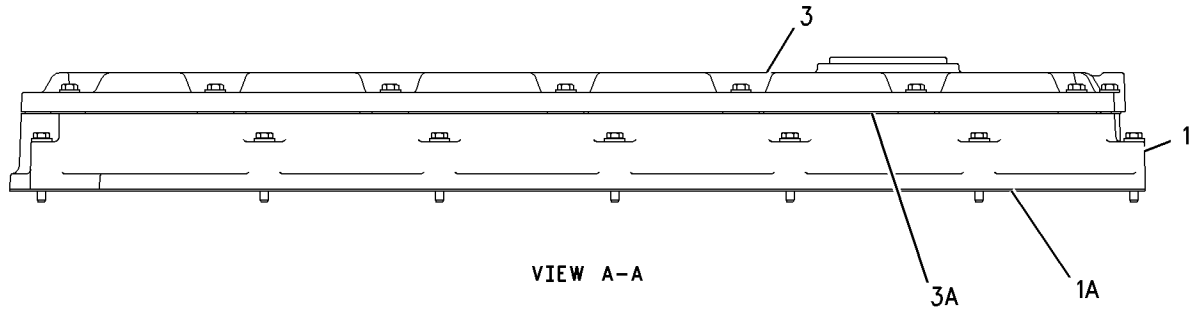
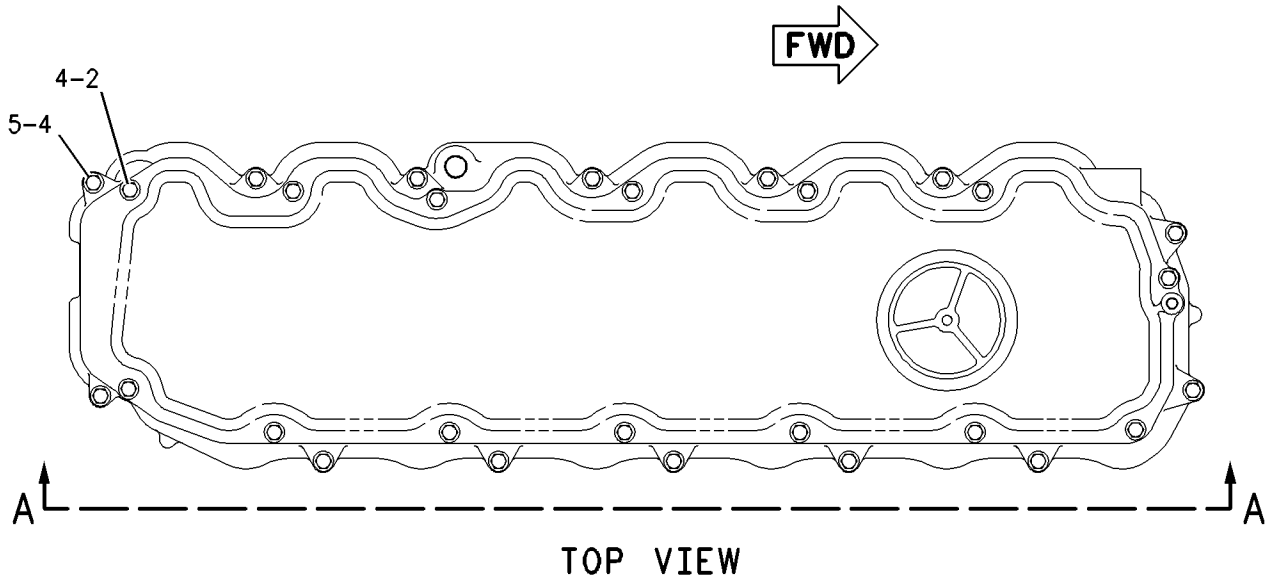
FRONT BREATHER. REQUIRES ADDITIONAL OIL FILL
AN ATTACHMENT

SMCS-1107

i01478906

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8361	1	COVER AS-BASE						
D	1A	1	5P-5678		SEAL (2M)						
M	2	1	6V-2315	14	BOLT (M6X1X35MM)						
	3	1	172-6274	1	COVER AS-TOP						
D	3A	1	5P-5678		SEAL (2M)						
	4	1	5P-0537	28	WASHER-HARD (7.2X14.5X2MM THK)						
M	5	1	6V-7728	14	BOLT (M6X1.0X45MM)						

D-ORDER BY THE METER
M-METRIC PART



GRAPHIC #1

g00770134

BASIC ENGINE

153-1832 COVER GP - VALVE MECHANISM

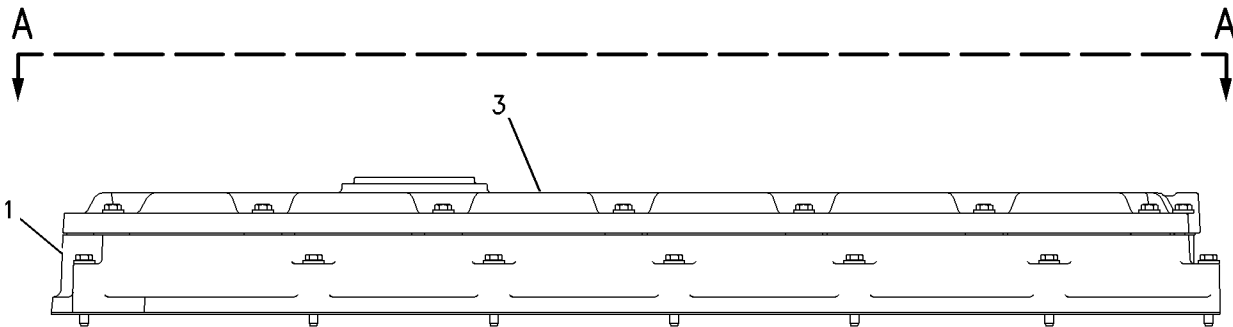
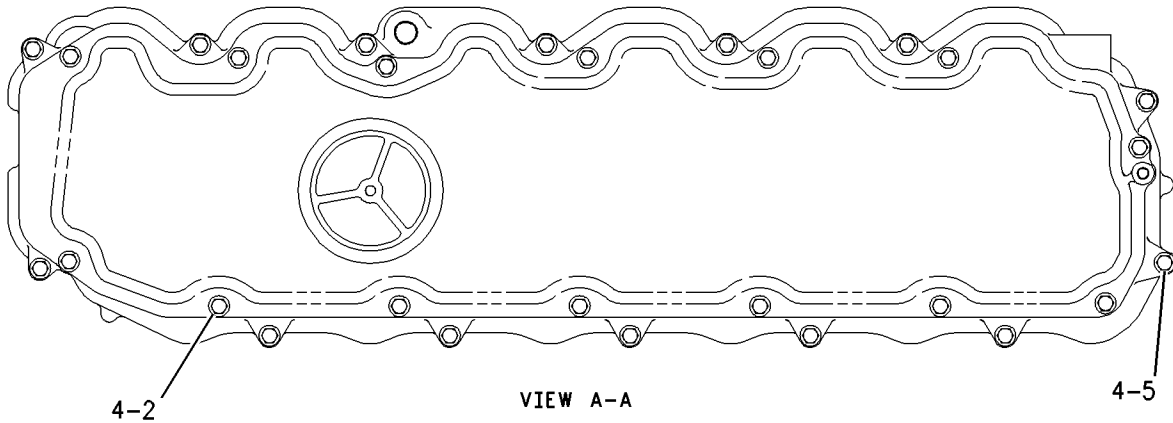
REAR BREATHER, NO OIL FILL
AN ATTACHMENT

SMCS-1107

i01564482

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8361	1	COVER AS-BASE						
D		1	5P-5678		SEAL (2.0M)						
M	2	1	6V-2315	14	BOLT (M6X1X35MM)						
	3	1	172-6280	1	COVER AS-TOP						
D		1	5P-5678		SEAL (2.0M)						
	4	1	5P-0537	28	WASHER-HARD (7.2X14.5X2MM THK)						
M	5	1	6V-7728	14	BOLT (M6X1.0X45MM)						

D-ORDER BY THE METER
M-METRIC PART



GRAPHIC #1

g00812833

MEMORANDA

BASIC ENGINE

113-6087 CRANKSHAFT GP

SMCS-1202

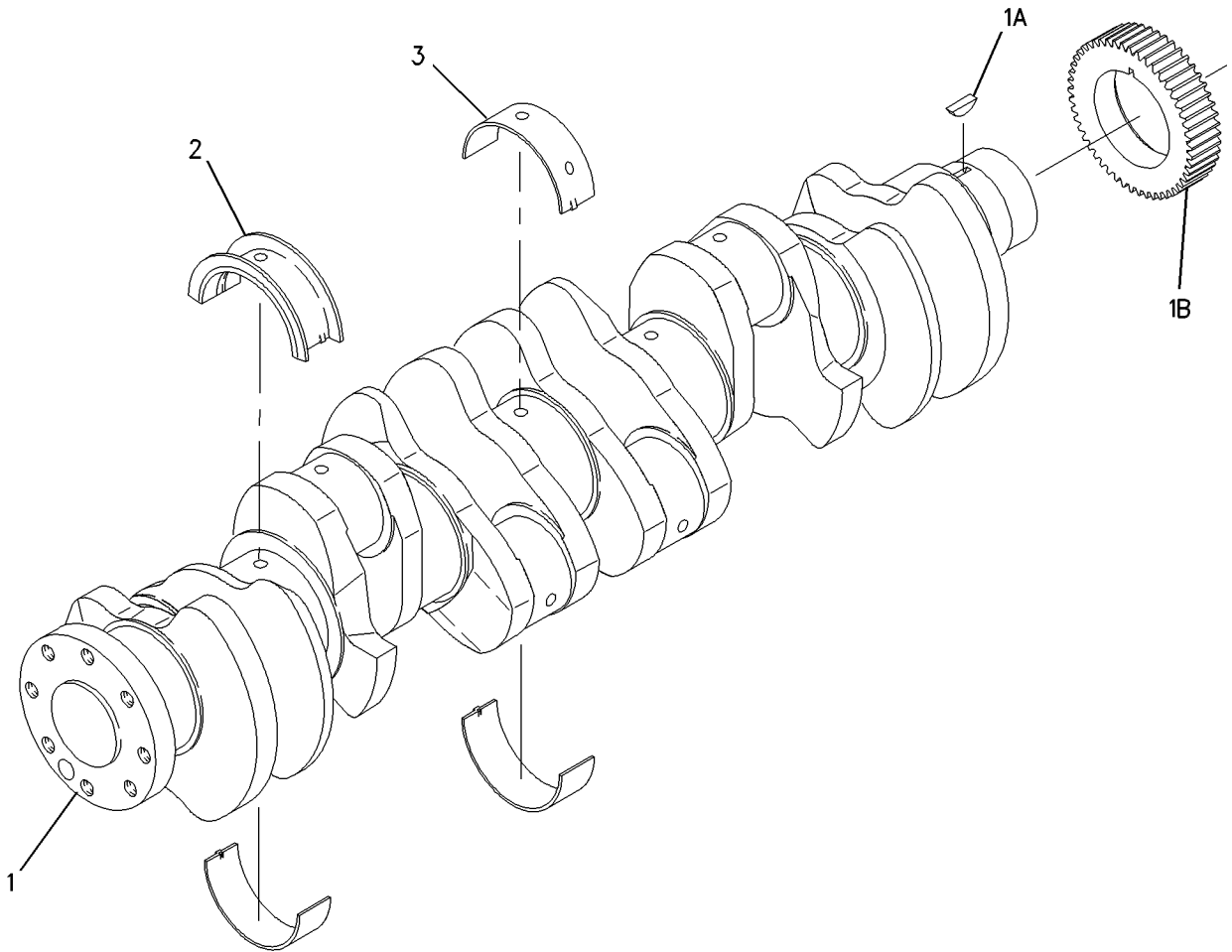
i01560047

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
R	1	1	105-1725	1	CRANKSHAFT AS						
	1A	1	1B-8705	1	KEY-WOODRUFF						
	1B	1	2W-8147	1	GEAR (50 TEETH)						
J	2	1	107-7602	1	BEARING-THRUST						
AB		1	7C-6969		BEARING-THRUST (0.5MM OS)						
AB		1	7C-6970		BEARING-THRUST (0.5MM US - 0.5MM OS)						
AB		1	7C-6966		BEARING-THRUST (0.25MM US)						
AB		1	7C-6967		BEARING-THRUST (0.5MM US)						
J	3	1	107-7708	6	BEARING-MAIN						
AB		1	145-0168		BEARING-MAIN (0.5MM O.S.)						
AB		1	145-0170		BEARING-MAIN (0.5MM US - 0.5MM OS)						
AB		1	145-0162		BEARING-MAIN (0.25MM US)						
AB		1	145-0164		BEARING-MAIN (0.5MM U.S.)						
ABF		1	7C-7980	1	SLEEVE-OIL SEAL (THIS WEAR SLEEVE IS USED ONLY TO SALVAGE (REPAIR) THE REAR SEAL SURFACE OF THE CRANKSHAFT)						
					AVAILABLE REPAIR KIT(S) :						
J			196-9519		KIT-MAIN BEARING						
A - NOT PART OF THIS GROUP B - USE AS REQUIRED F - NOT SHOWN J - KIT MARKED J SERVICES PARTS MARKED J R - REMFG PART MAY BE AVAILABLE											

BASIC ENGINE

113-6087 CRANKSHAFT GP (contd.)

i01560047



GRAPHIC #1

g00810614

BASIC ENGINE

129-1163 CYLINDER BLOCK GP

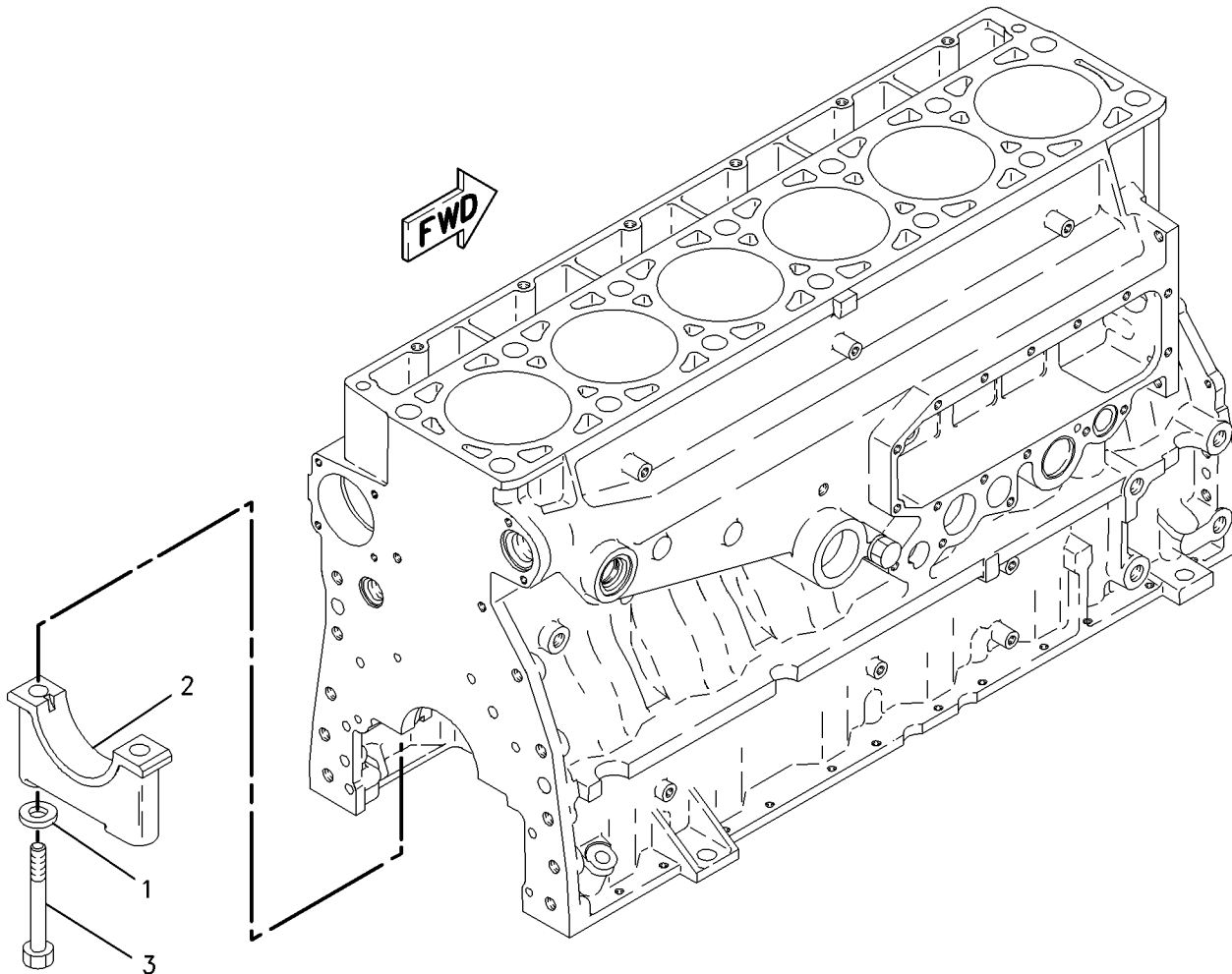
PART OF 129-1164 CYLINDER BLOCK GP

SMCS-1201

i01513233

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8247	14	WASHER-HARD (17X32X3.5MM THK)						
	2	1	7E-2968	7	CAP-CRANKSHAFT BEARING						
M	3	1	9X-8916	14	BOLT (M16X2.0X140MM)						

M-METRIC PART



GRAPHIC #1

g00785467

BASIC ENGINE

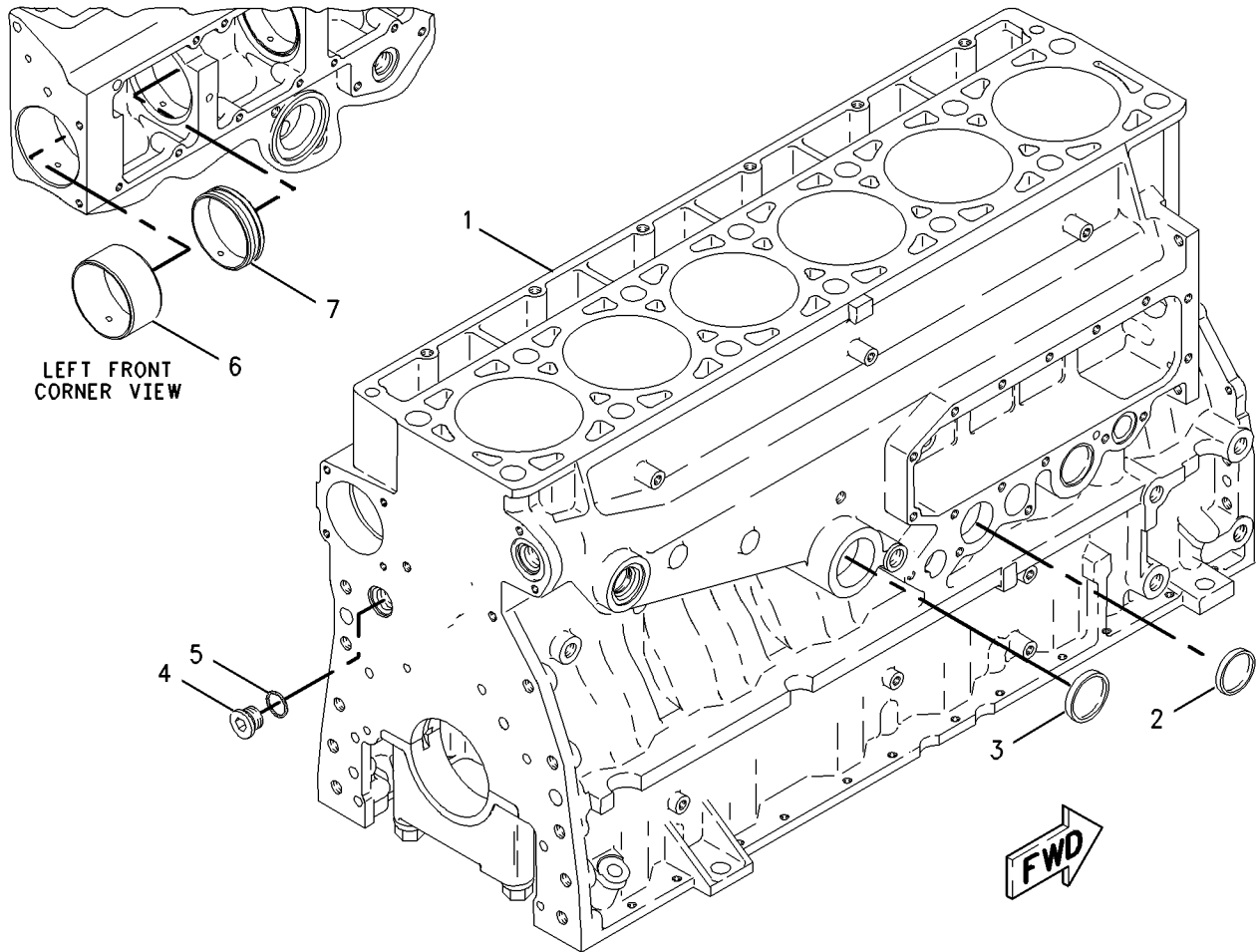
129-1164 CYLINDER BLOCK GP*R PART OF 129-1165 CYLINDER BLOCK GP

SMCS-1201

i01589115

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	129-1163	1	CYLINDER BLOCK GP						52
	2	1	2M-6471	2	PLUG-CUP						
	3	1	3H-5552	1	PLUG-CUP						
	4	1	9S-8006	1	PLUG						
	5	1	2M-9780	1	SEAL-O-RING						
	6	1	2W-7211	1	BEARING-SLEEVE (CAMSHAFT)						
AC	7	1	2W-7213	6	BEARING-SLEEVE (CAMSHAFT)						

A - NOT PART OF THIS GROUP
C - CHANGE FROM PREVIOUS TYPE
Y - SEPARATE ILLUSTRATION



GRAPHIC #1

g00824295

BASIC ENGINE

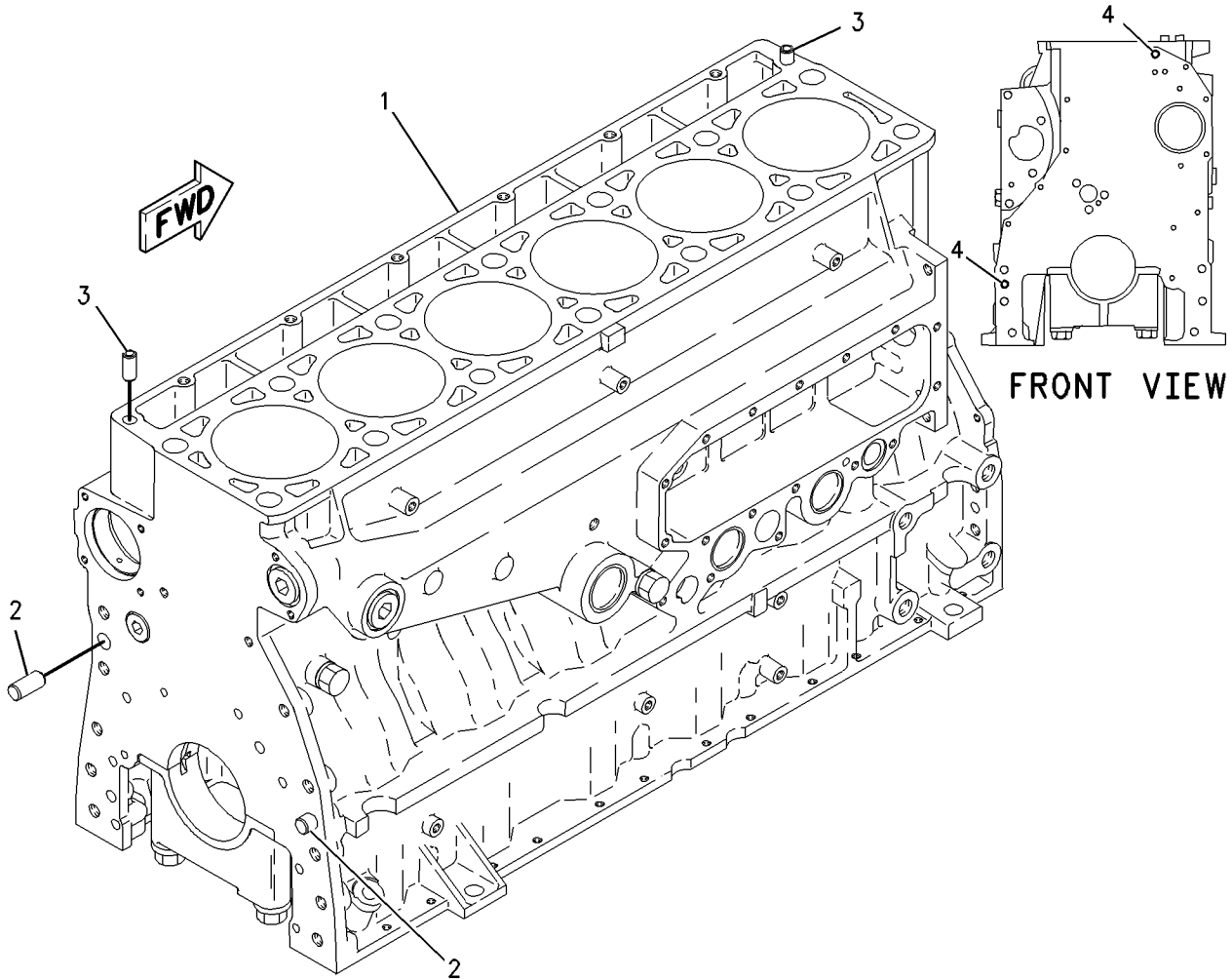
129-1165 CYLINDER BLOCK GP*R

SMCS-1201

i01541285

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	129-1164	1	CYLINDER BLOCK GP						53
	2	1	7N-5683	2	DOWEL						
	3	1	1W-8407	2	SLEEVE						
	4	1	6V-3538	2	DOWEL						

R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00800849

BASIC ENGINE

183-6832 CYLINDER HEAD AS

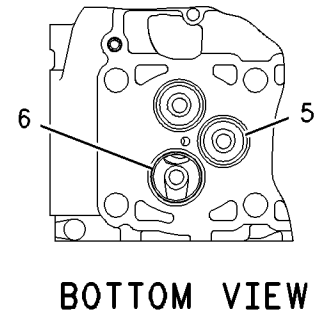
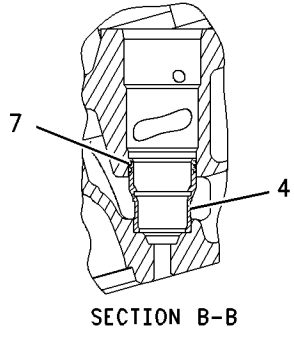
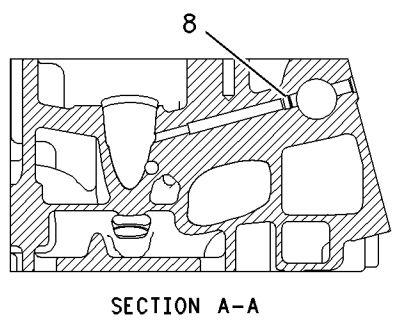
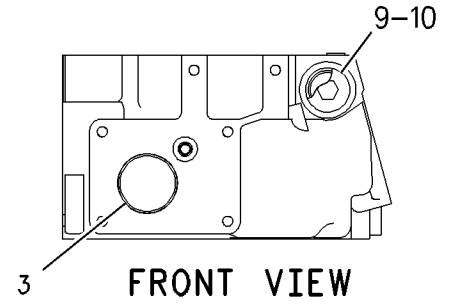
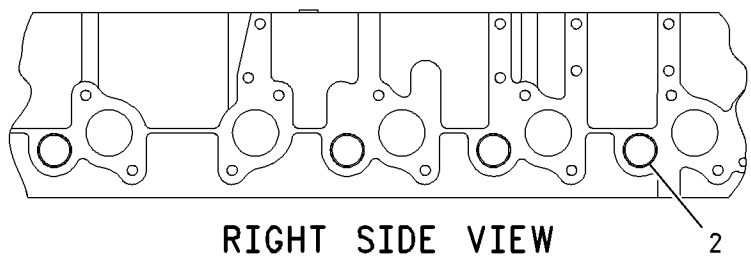
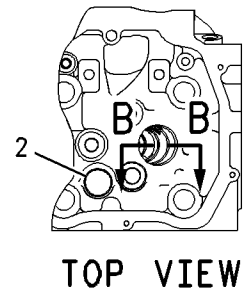
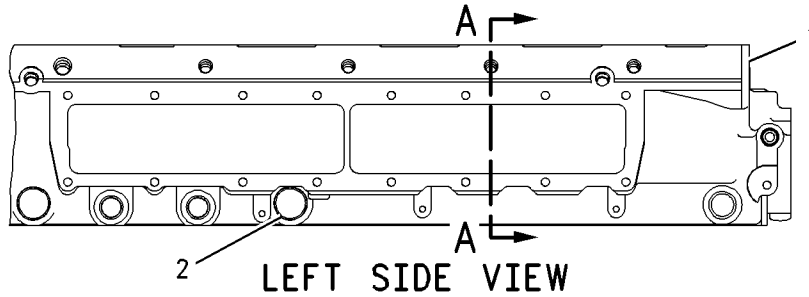
PART OF 183-6836 CYLINDER HEAD AS, 183-6833 CYLINDER HEAD GP

FIELD REPLACEMENT ORDER 183-6836—PAGE 56

SMCS-1100, 1101

i01513018

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	183-6831	1	CYLINDER HEAD						
	2	1	8M-5860	12	PLUG-CUP						
	3	1	4F-5695	2	PLUG-CUP						
	4	1	159-0300	6	SLEEVE-INJECTOR						
	5	1	155-9504	12	INSERT-VALVE SEAT (INLET)						
	6	1	147-8218	6	INSERT-VALVE SEAT (EXHAUST)						
	7	1	8C-0563	12	SEAL-O-RING						
	8	1	154-8025	6	SETSCREW-SOCKET						
	9	1	9S-9334	1	PLUG						
	10	1	9X-7712	1	SEAL-O-RING						



GRAPHIC #1

g00741546

BASIC ENGINE

183-6836 CYLINDER HEAD AS

NO. 6 (9/16") PORT

SMCS-1100, 1101

i01477831

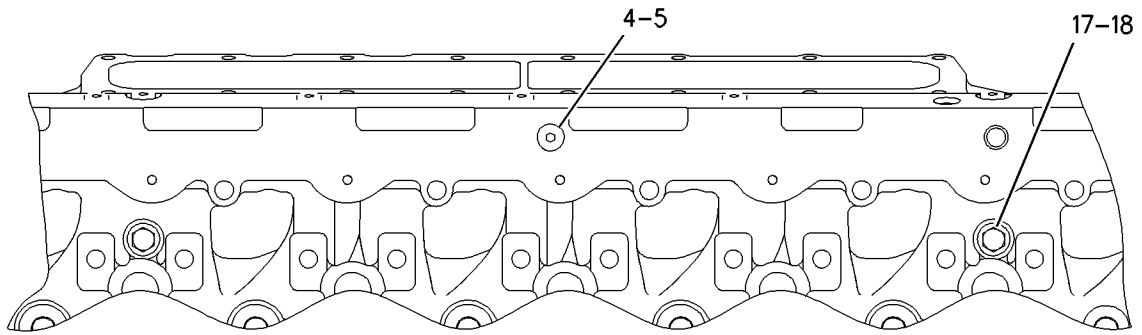
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	183-6832	1	CYLINDER HEAD AS						55
	2	1	9S-8002	7	PLUG-O-RING						
	3	1	6V-5048	7	SEAL-O-RING						
	4	1	9S-8004	4	PLUG						
	5	1	3J-1907	4	SEAL-O-RING						
	6	1	147-8214	12	SEAL-V STEM						
	7	1	140-9670	12	GUIDE-VALVE						
	8	1	9S-8006	1	PLUG						
	9	1	2M-9780	1	SEAL-O-RING						
	10	1	9S-9334	1	PLUG						
	11	1	9X-7712	1	SEAL-O-RING						
	12	1	147-8220	6	GUIDE-VALVE						
	13	1	102-6229	6	SEAL-VALVE STEM						
	14	1	137-6715	6	SEAT-VALVE SPRING						
	15	1	9S-8005	1	PLUG						
	16	1	3K-0360	1	SEAL-O-RING						
	17	1	1N-5999	2	PLUG						
	18	1	7J-0204	2	SEAL-O-RING						

Y-SEPARATE ILLUSTRATION

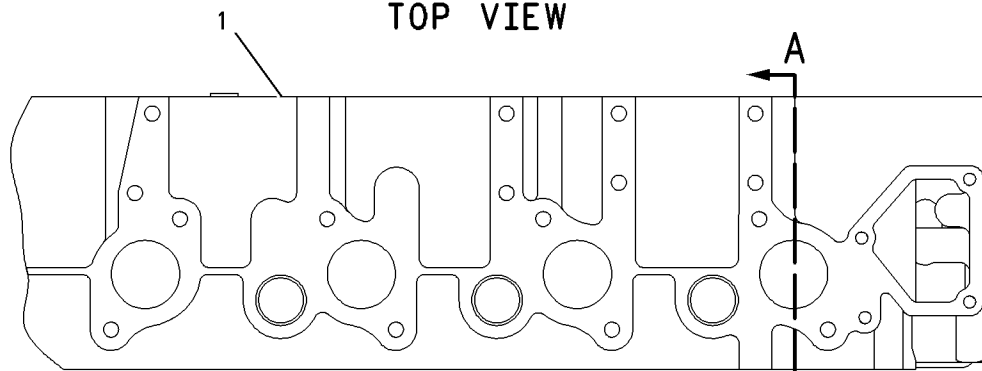
BASIC ENGINE

183-6836 CYLINDER HEAD AS (contd.)

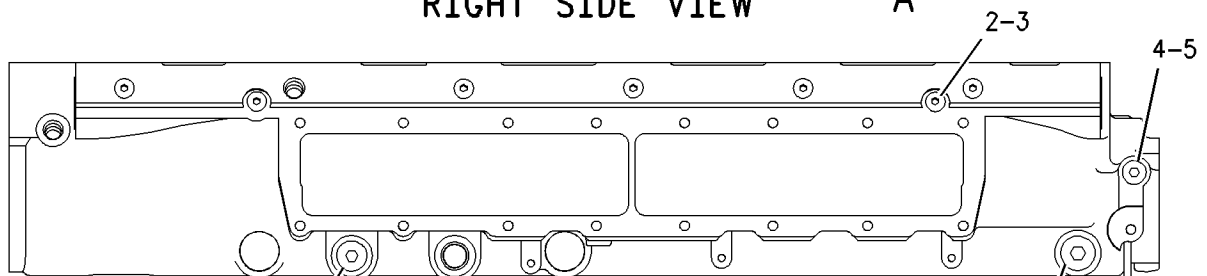
i01477831



TOP VIEW

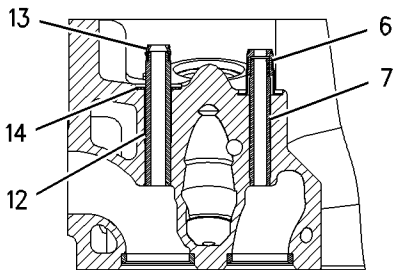


RIGHT SIDE VIEW

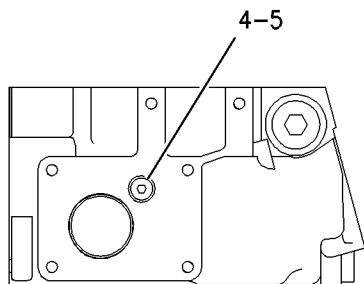


LEFT SIDE VIEW

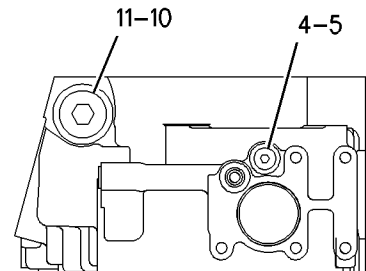
16-15



SECTION A-A



FRONT VIEW



REAR VIEW

GRAPHIC #1

g00741894

BASIC ENGINE

133-3742 CYLINDER HEAD GP

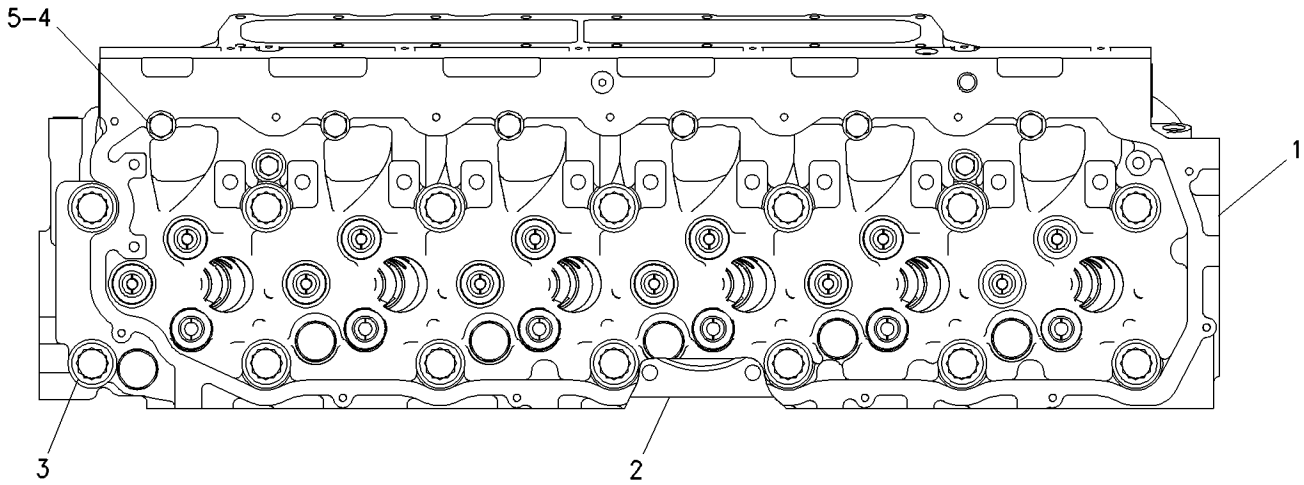
FIELD REPLACEMENT ORDER 183-6835-PAGE 62

SMCS-1100

i01596008

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE	
					1	2	3	4	5	6 (PRODUCT LEVEL)		
Y	1	1	183-6834	1	CYLINDER HEAD GP						60	
	2	1	133-4995	1	GASKET-CYLINDER HEAD							
	3	1	138-3252	14	BOLT-12 POINT HEAD							
			1	8T-3282	14	WASHER-HARD (22X35X3.5MM THK)						
			1	6V-4876	14	LUBRICANT						
M	4	1	8T-7950	6	BOLT (M10X1.5X180MM)							
	5	1	6V-5839	6	WASHER (11X21X2.5MM THK)							

M- METRIC PART
Y- SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

g00760746

BASIC ENGINE

183-6833 CYLINDER HEAD GP

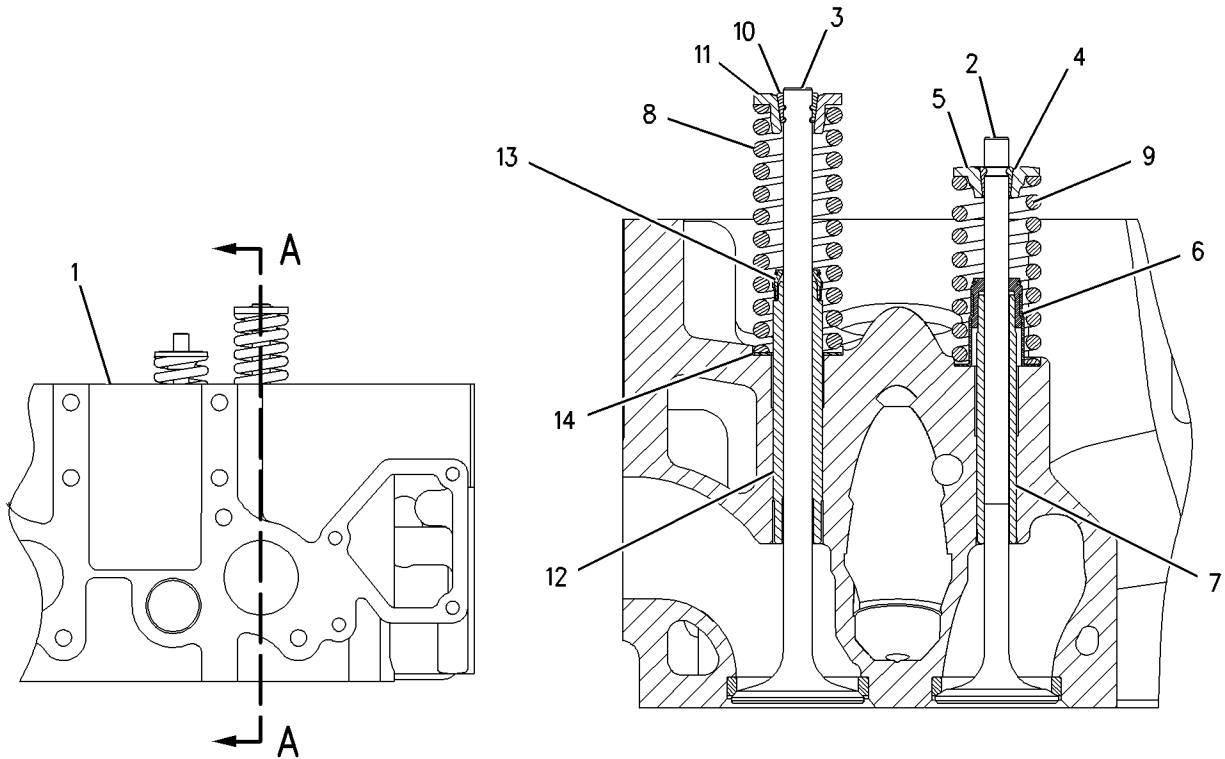
PART OF 183-6834, 183-6835 CYLINDER HEAD GP
FOR USE WITH OIL TEMPERATURE SENSOR USED FOR COLD STARTING

SMCS-1100

i01452514

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	183-6832	1	CYLINDER HEAD AS						55
	2	1	145-7390	12	VALVE-INLET						
	3	1	147-8211	6	VALVE-EXHAUST						
	4	1	1W-2715	24	LOCK-RETAINER						
	5	1	7E-7779	12	RETAINER-SPRING						
	6	1	147-8214	12	SEAL-V STEM						
	7	1	140-9670	12	GUIDE-VALVE						
	8	1	137-6718	6	SPRING-VALVE						
	9	1	140-6188	12	SPRING-VALVE						
	10	1	2A-4429	12	LOCK-RETAINER						
	11	1	134-4483	6	RETAINER-SPRING						
	12	1	147-8220	6	GUIDE-VALVE						
	13	1	102-6229	6	SEAL-VALVE STEM						
	14	1	137-6715	6	SEAT-VALVE SPRING						

Y-SEPARATE ILLUSTRATION



VIEW A-A

GRAPHIC #1

g00760929

BASIC ENGINE

183-6834 CYLINDER HEAD GP

PART OF 133-3742 CYLINDER HEAD GP
FIELD REPLACEMENT ORDER 183-6835--PAGE 62

SMCS-1100

i01593119

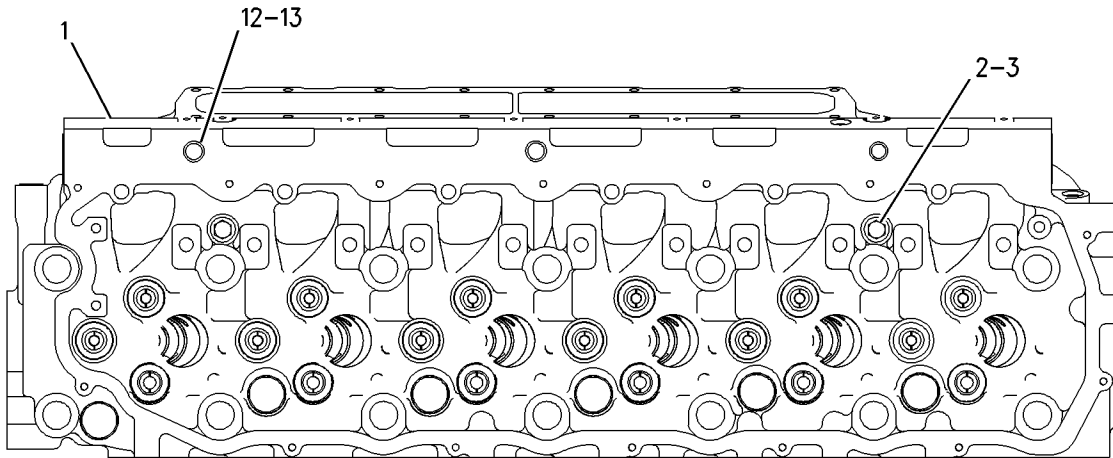
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	183-6833	1	CYLINDER HEAD GP						59
	2	1	1N-5999	2	PLUG						
	3	1	7J-0204	2	SEAL-O-RING						
	4	1	9S-8002	7	PLUG-O-RING						
	5	1	6V-5048	7	SEAL-O-RING						
	6	1	9S-8004	3	PLUG						
	7	1	3J-1907	3	SEAL-O-RING						
	8	1	9S-8006	1	PLUG						
	9	1	2M-9780	1	SEAL-O-RING						
	10	1	9S-9334	1	PLUG						
	11	1	9X-7712	1	SEAL-O-RING						
	12	1	9S-8003	1	PLUG-O-RING						
	13	1	1J-9671	1	SEAL-O-RING						

Y- SEPARATE ILLUSTRATION

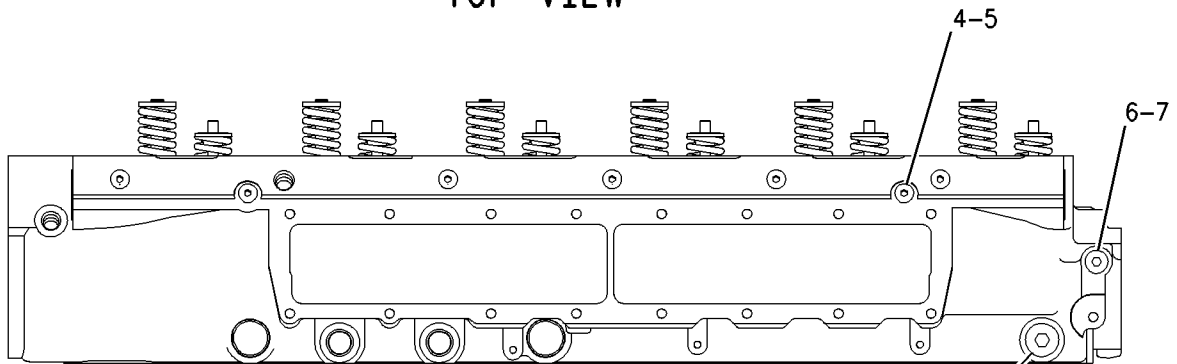
BASIC ENGINE

183-6834 CYLINDER HEAD GP (contd.)

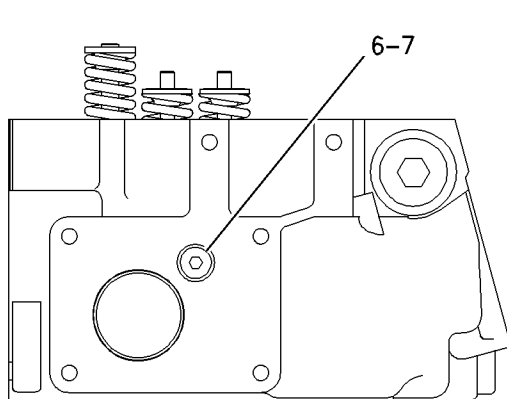
i01593119



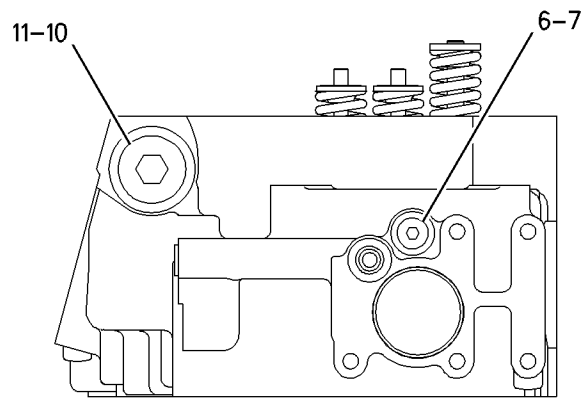
TOP VIEW



LEFT SIDE VIEW



FRONT VIEW



REAR VIEW

GRAPHIC #1

g00826874

BASIC ENGINE

183-6835 CYLINDER HEAD GP

FIELD REPLACEMENT FOR 133-3742-PAGE 58: FOR 183-6834-PAGE 60

SMCS-1100

i01599559

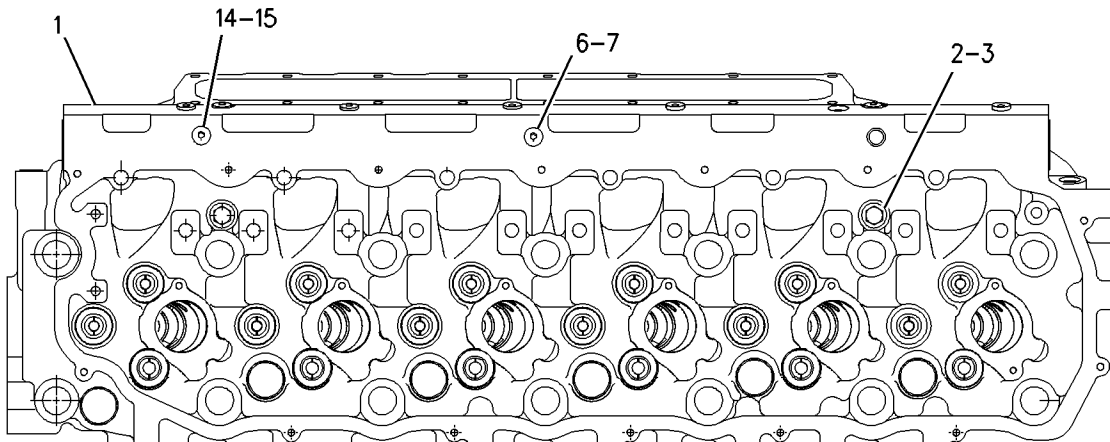
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	183-6833	1	CYLINDER HEAD GP						59
	2	1	1N-5999	2	PLUG						
	3	1	7J-0204	2	SEAL-O-RING						
	4	1	9S-8002	7	PLUG-O-RING						
	5	1	6V-5048	7	SEAL-O-RING						
	6	1	9S-8004	4	PLUG						
	7	1	3J-1907	4	SEAL-O-RING						
	8	1	9S-8006	1	PLUG						
	9	1	2M-9780	1	SEAL-O-RING						
	10	1	9S-9334	1	PLUG						
	11	1	9X-7712	1	SEAL-O-RING						
	12	1	9S-8005	1	PLUG-O-RING						
	13	1	3K-0360	1	SEAL-O-RING						
	14	1	9S-8003	1	PLUG-O-RING						
	15	1	1J-9671	1	SEAL-O-RING						

Y-SEPARATE ILLUSTRATION

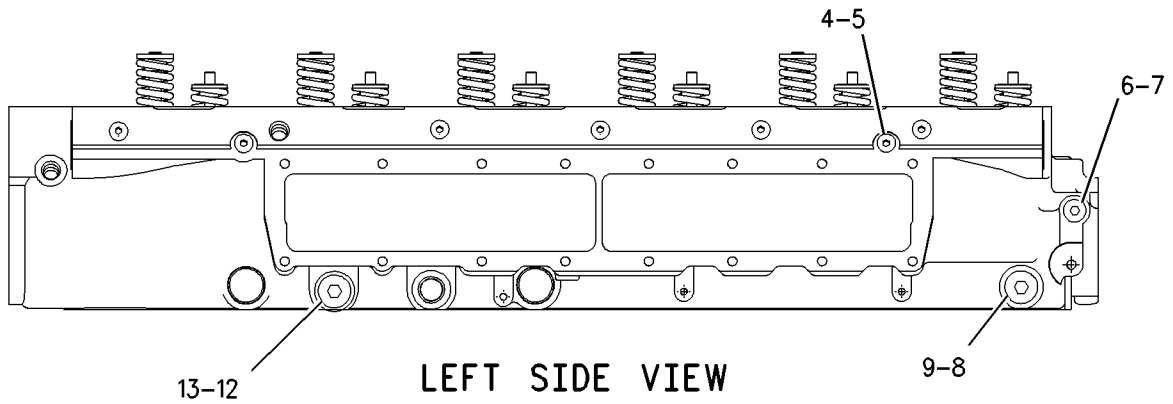
BASIC ENGINE

183-6835 CYLINDER HEAD GP (contd.)

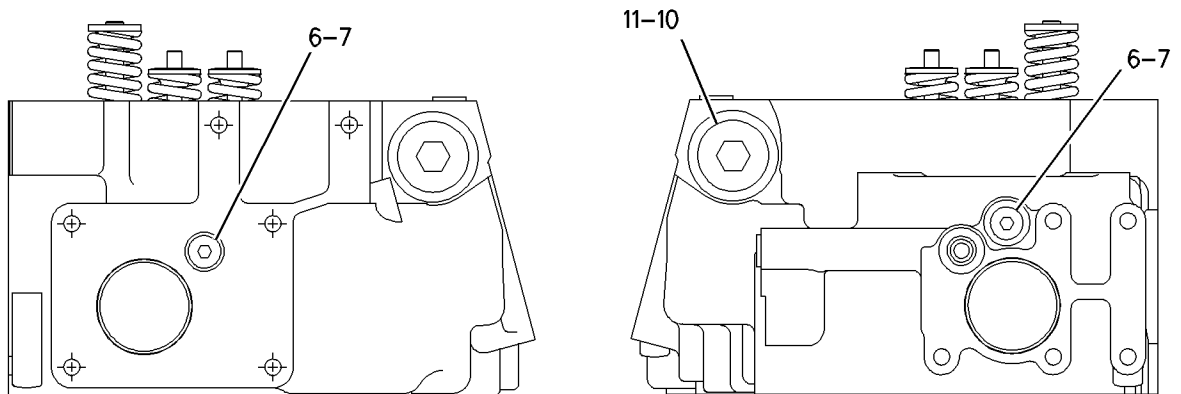
i01599559



TOP VIEW



LEFT SIDE VIEW



FRONT VIEW

REAR VIEW

GRAPHIC #1

g00829053

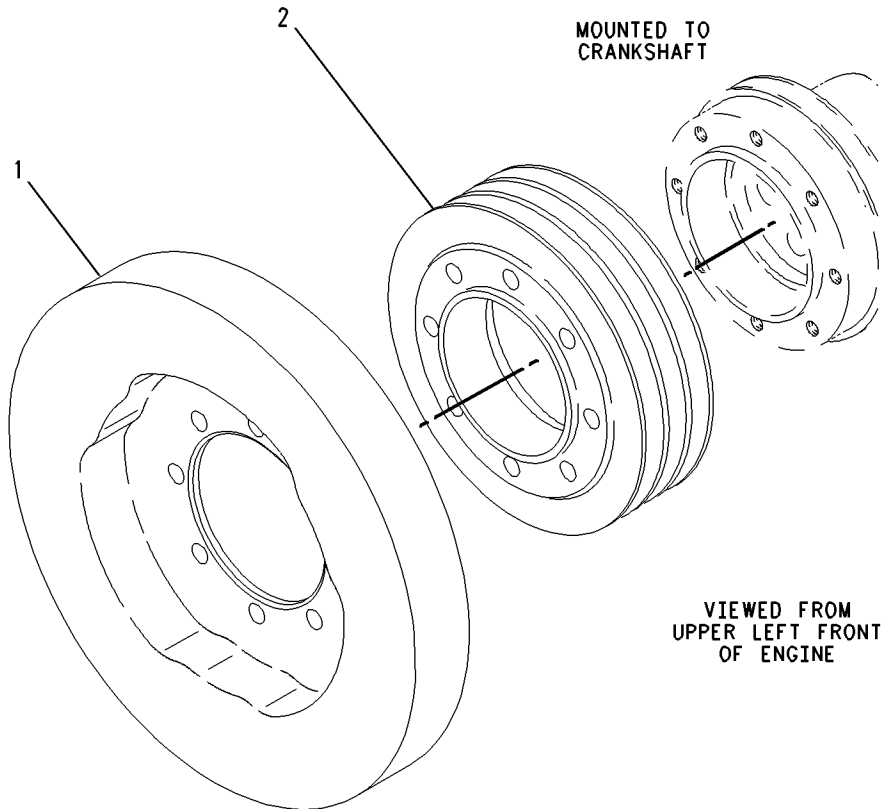
BASIC ENGINE

132-1976 DAMPER & PULLEY GP FOR USE WITH 132-1980—PAGE 92, ALL ENGINE SPEEDS AN ATTACHMENT

SMCS-1205

i01228675

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8121	1	DAMPER AS						
	2	1	107-7750	1	PULLEY						



GRAPHIC #1

g00656958

BASIC ENGINE

165-4557 DAMPER & PULLEY GP

PROVIDES VISCOUS DAMPER W/8 GROOVE POLY-RIB PULLEY

FOR USE WITH 177-5064—PAGE 93

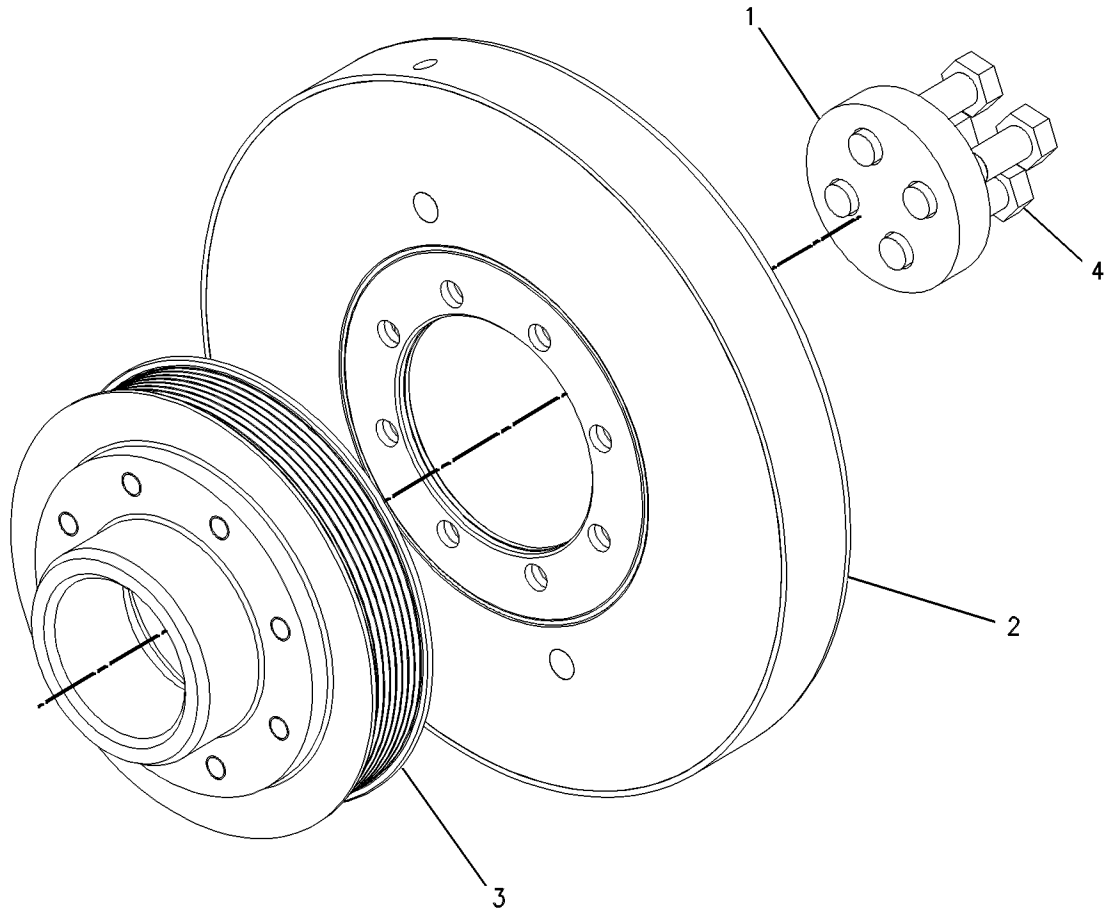
ALSO AN ATTACHMENT

SMCS-1205

i01457178

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-7381	1	WASHER-CLAMP						
	2	1	167-8121	1	DAMPER AS						
	3	1	153-1036	1	PULLEY-CRANKSHAFT						
M	4	1	8T-3666	4	BOLT (M14X60MM)						

M-METRIC PART



GRAPHIC #1

g00585853

BASIC ENGINE

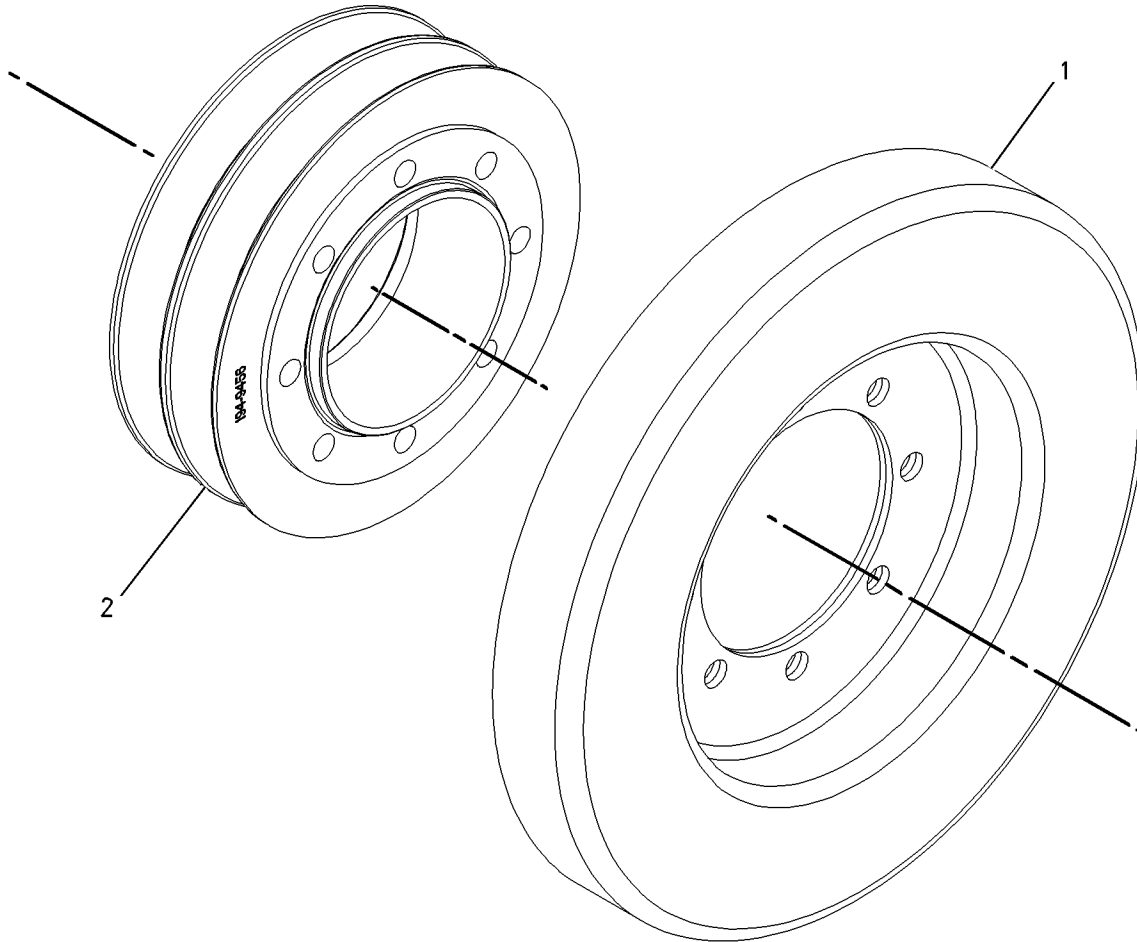
194-9458 DAMPER & PULLEY GP

2 GROOVE PULLEY, 190MM DIA DAMPER
FOR USE WITH 194-9469—PAGE 94
AN ATTACHMENT

SMCS-1205

i01439840

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8121	1	DAMPER AS						
	2	1	194-9456	1	PULLEY - CRANKSHAFT						



GRAPHIC #1

g00755081

BASIC ENGINE

194-9459 DAMPER & PULLEY GP

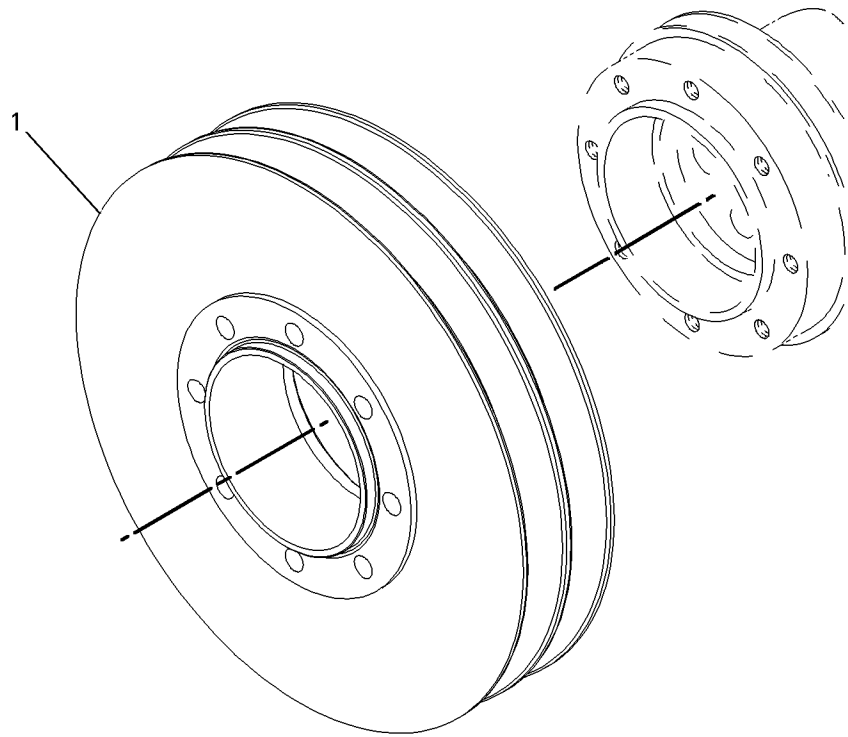
2 GROOVE PULLEY, 275 MM DIA DAMPER

FOR USE WITH 198-7628—PAGE 189, 198-7629—PAGE 96, 194-9469—PAGE 94
AN ATTACHMENT

SMCS-1205

i01619802

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	194-9457	1	PULLEY - CRANKSHAFT						



GRAPHIC #1

g00839454

BASIC ENGINE

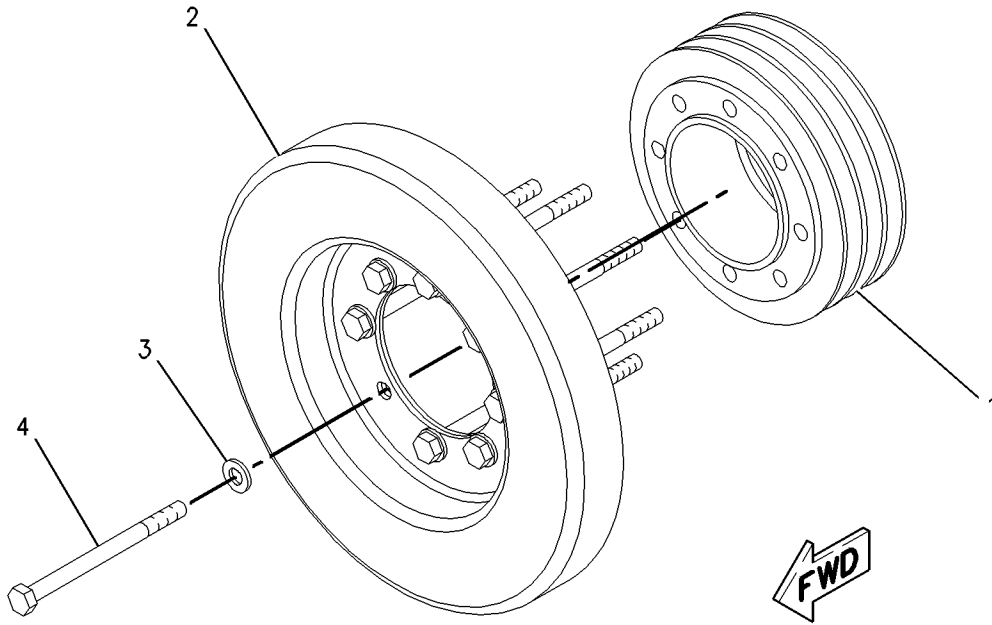
202-4520 DAMPER & PULLEY GP CANNOT BE USED WITH CLOSED COUPLED RADIATOR GPS AN ATTACHMENT

SMCS-1205

i01619822

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1620	1	PULLEY (180MM DIA, 3 GROOVE)						
	2	1	167-8121	1	DAMPER AS						
	3	1	6V-5839	8	WASHER (11X21X2.5MM THK)						
M	4	1	8T-5436	8	BOLT (M10X1.50X130MM)						

M-METRIC PART



GRAPHIC #1

g00839654

BASIC ENGINE

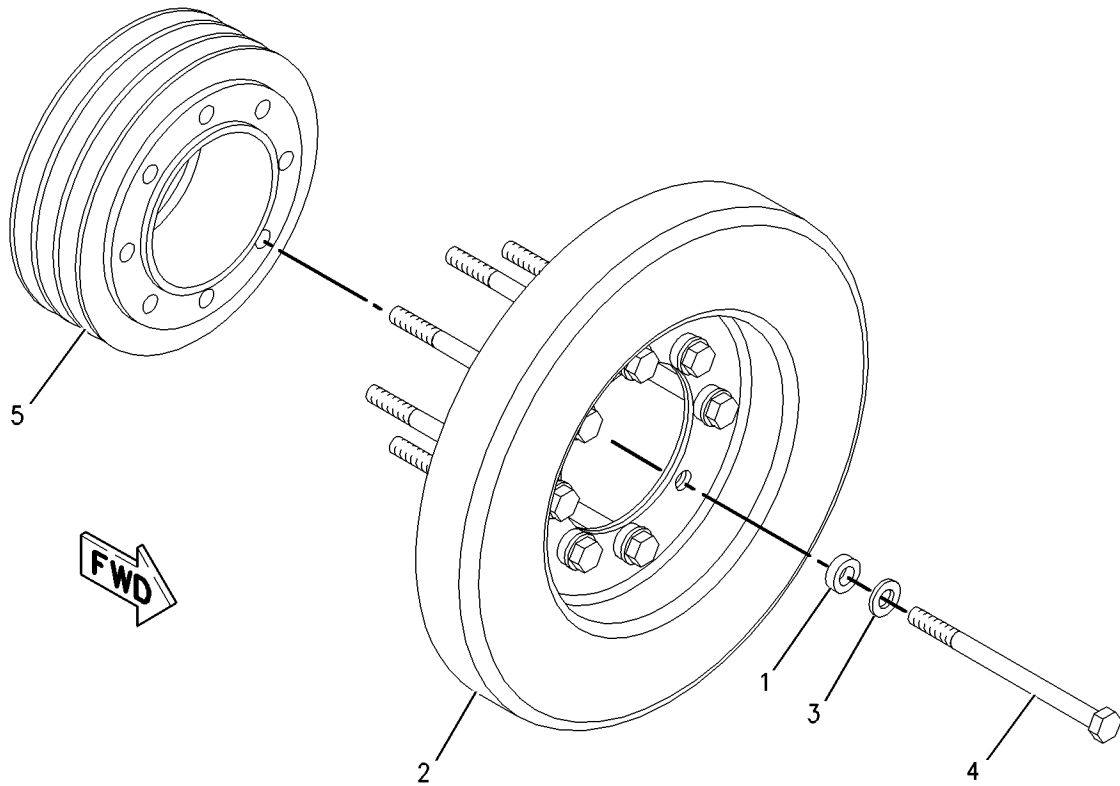
202-4521 DAMPER & PULLEY GP CANNOT BE USED WITH CLOSE COUPLED RADIATORS AN ATTACHMENT

SMCS-1205

i01619824

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9R-5008	8	SPACER (11X20X6MM THK)						
	2	1	167-8121	1	DAMPER AS						
	3	1	6V-5839	8	WASHER (11X21X2.5MM THK)						
M	4	1	8C-2926	8	BOLT (M10X1.50X140MM)						
	5	1	9Y-5386	1	PULLEY						

M-METRIC PART



GRAPHIC #1

g00839716

BASIC ENGINE

4P-4451 DAMPER GP

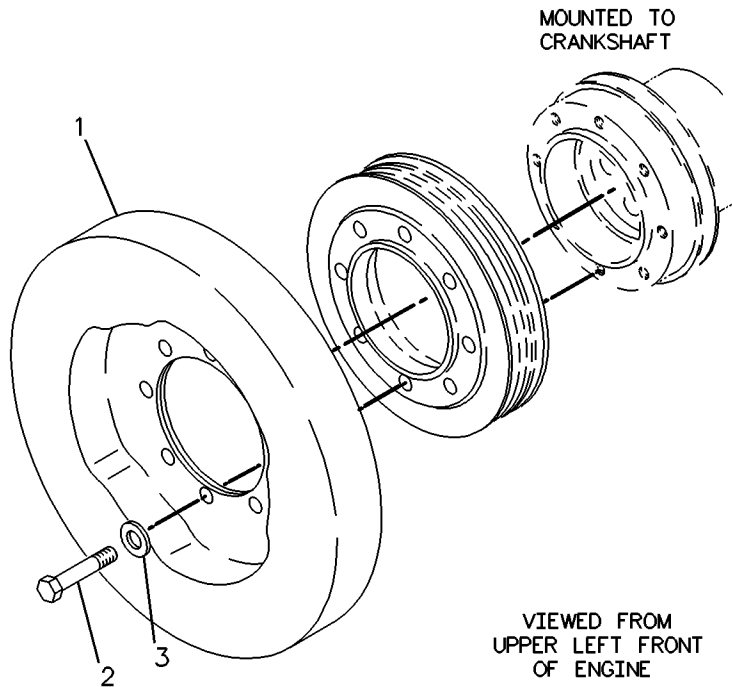
304.8MM DIAMETER SOLID DAMPER. REQUIRED ON 275 HP AND ABOVE
FOR USE WITH 118-2090-PAGE 184
AN ATTACHMENT

SMCS-1205

i01220081

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8121	1	DAMPER AS						
M	2	1	8T-4186	8	BOLT (M10X1.50X40MM)						
	3	1	8T-4121	8	WASHER-HARD (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00226159

BASIC ENGINE

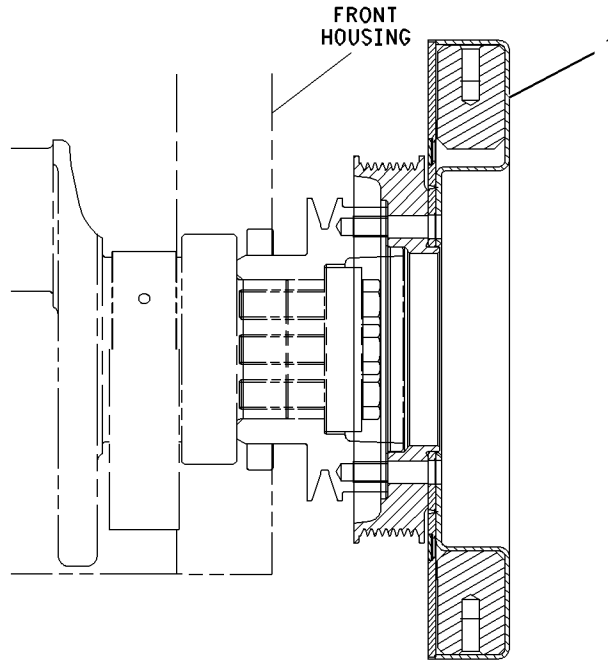
165-6934 DAMPER GP

FOR USE WITH 118-2090-PAGE 184, 148-7232-PAGE 15
AN ATTACHMENT

SMCS-1205

i01622413

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-8121	1	DAMPER AS						



RIGHT SIDE VIEW

GRAPHIC #1

g00839641

BASIC ENGINE

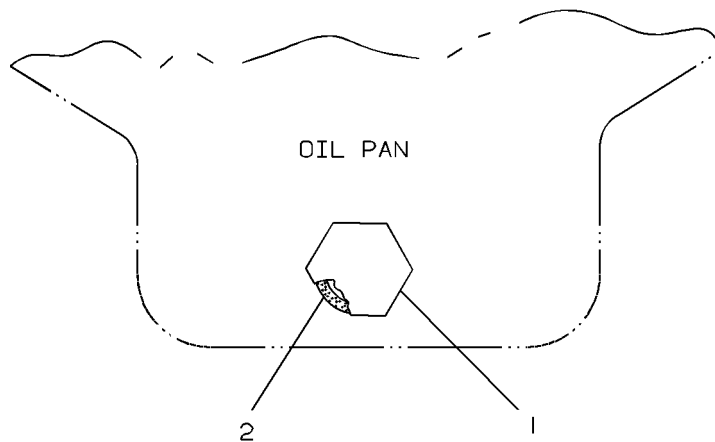
7C-4566 DRAIN GP-ENGINE OIL

FOR USE WITH ALUMINUM OIL PANS THAT REQUIRE AN ADDITIONAL LONG PLUG
ALSO AN ATTACHMENT

SMCS-1302

i01589121

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	118-3619	1	PLUG-O-RING (MAGNETIC OIL DRAIN) (3/4X16-2A THD)						
	2	1	3K-0360	1	SEAL-O-RING						



GRAPHIC #1

g00125672

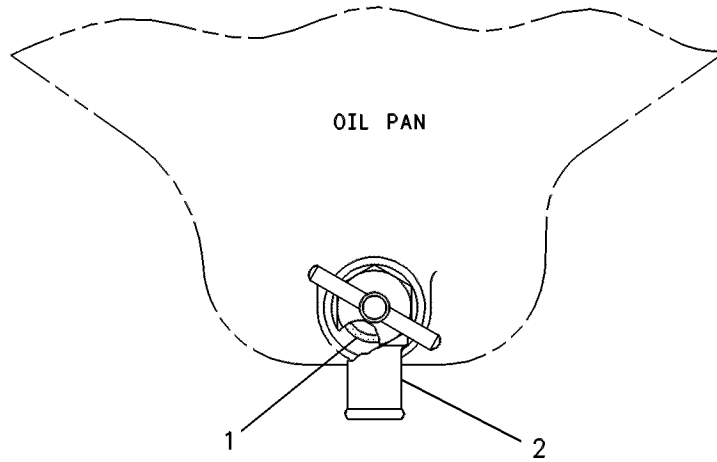
BASIC ENGINE

118-2073 DRAIN GP - ENGINE OIL ALSO AN ATTACHMENT

SMCS-1302

i01195289

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						
	2	1	6V-7238	1	VALVE-SHUTOFF						



GRAPHIC #1

g00117513

BASIC ENGINE

7C-1682 DRIVE GP-ACCESSORY

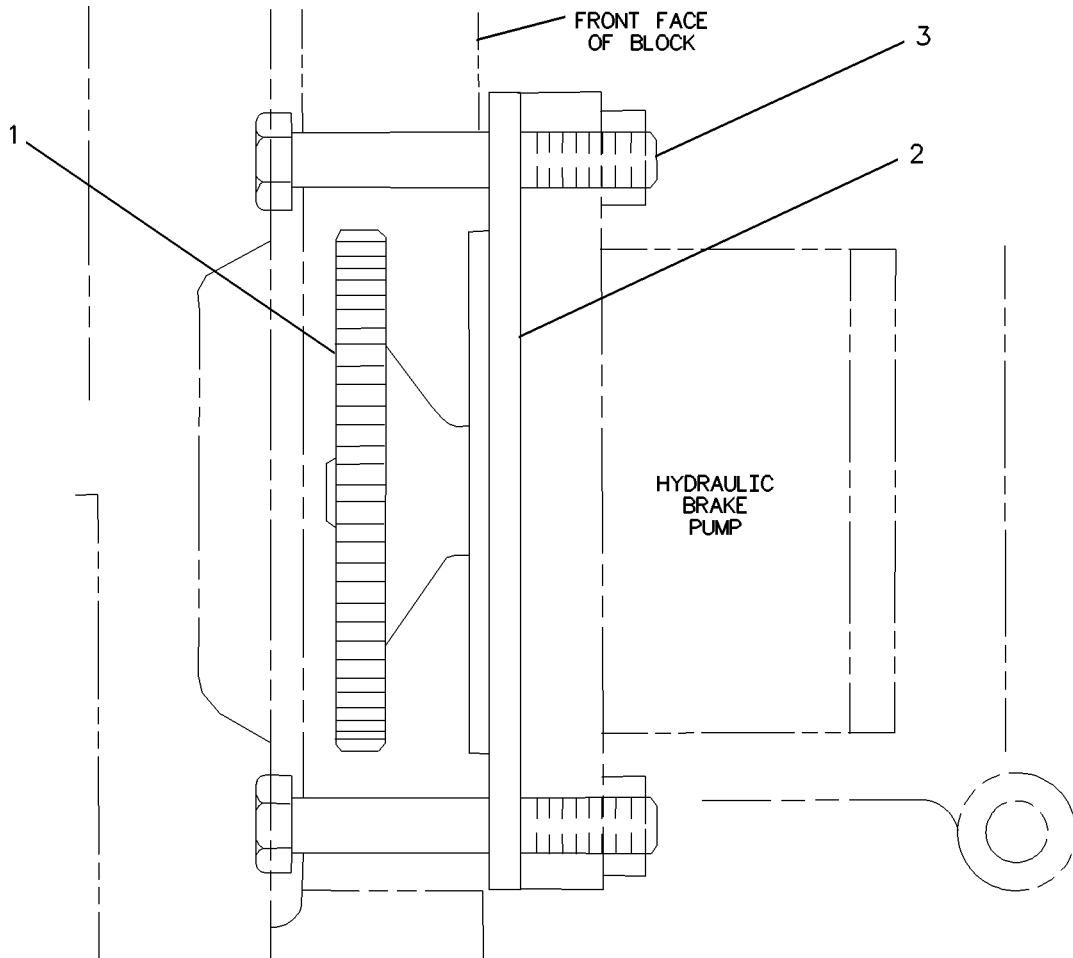
ROTATION IS COUNTER-CLOCKWISE VIEWED FROM THE DRIVE END OF PUMP
 FOR USE WITH HYDRAULIC PUMP WITH 1.5 TAPERED SHAFT. CANNOT BE USED WITH AIR
 COMPRESSOR
 AN ATTACHMENT

SMCS-1207

i00638799

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-1782	1	GEAR-HYDRAULIC PUMP DRIVE (50 TEETH)						
	2	1	7C-1289	1	ADAPTER						
M	3	1	6V-5696	2	BOLT (M12X1.75X80MM)						

M-METRIC PART



GRAPHIC #1

g00203126

BASIC ENGINE

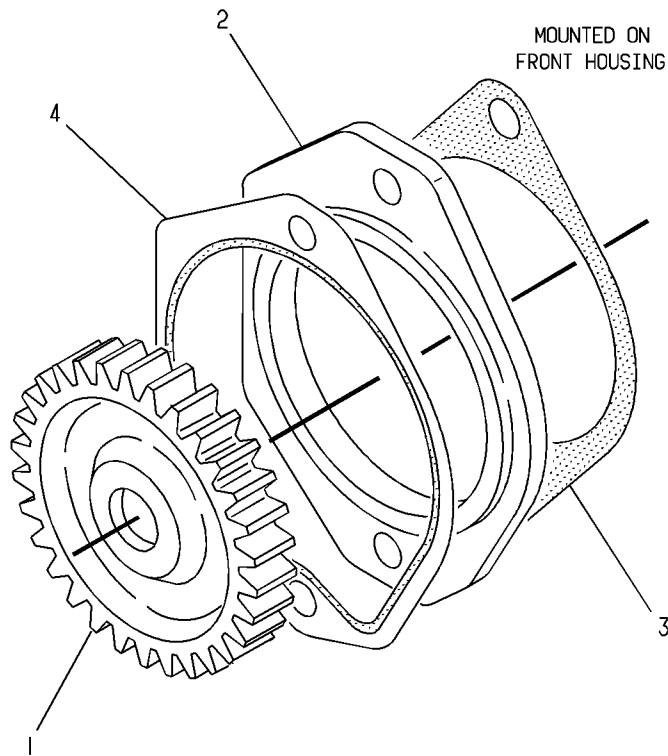
7E-1317 DRIVE GP-ACCESSORY

FOR USE WITH SAE B HYDRAULIC PUMP WITH STRAIGHT SHAFT. ROTATION IS CCW VIEWED FROM
DRIVE END OF PUMP. CANNOT BE USED WITH AIR COMPRESSOR
AN ATTACHMENT

SMCS-1207

i00791054

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1318	1	GEAR (50 TEETH)						
	2	1	7C-1289	1	ADAPTER						
	3	1	9H-8872	1	GASKET						
	4	1	135-9819	1	SEAL-INTEGRAL						



GRAPHIC #1

g00194565

BASIC ENGINE

7E-8692 DRIVE GP-ACCESSORY

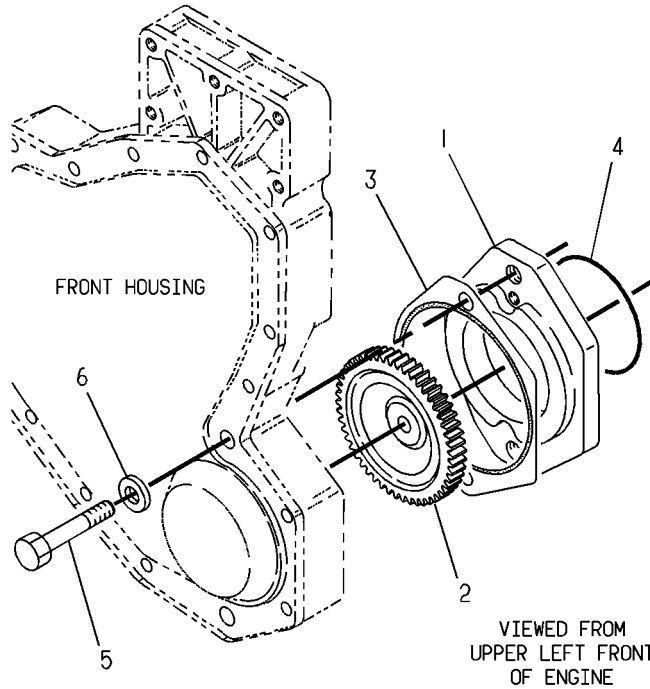
FOR USE WITH SAE "A" HYDRAULIC PUMP. CANNOT BE USED WITH AIR COMPRESSOR
AN ATTACHMENT

SMCS-1207

i00811130

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-3828	1	ADAPTER						
	2	1	7E-8691	1	GEAR-HYDRAULIC PUMP DRIVE (50 TEETH)						
	3	1	135-9819	1	SEAL-INTEGRAL						
	4	1	1P-8362	1	SEAL-O-RING						
M	5	1	6V-3823	2	BOLT (M12X1.75X60MM)						
	6	1	5P-8245	2	WASHER (3MM THK)						

M-METRIC PART



GRAPHIC #1

g00195018

BASIC ENGINE

7E-8945 DRIVE GP-ACCESSORY

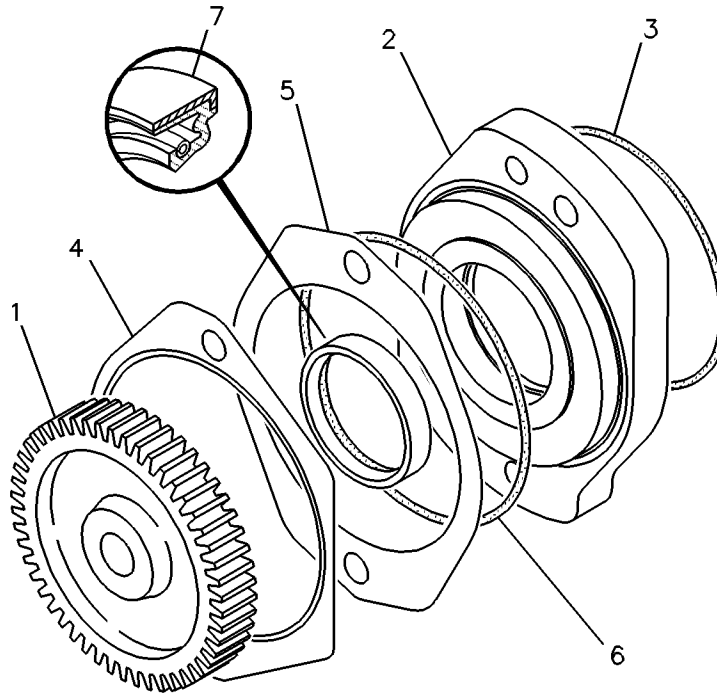
FOR USE WITH SAE B-B HYDRAULIC PUMP WITH 1:8 TAPERED SHAFT, ROTATION IS CCW VIEWED FROM DRIVE END OF PUMP. CANNOT BE USED WITH AIR COMPRESSOR AN ATTACHMENT

SMCS-1207

i00736786

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-8946	1	GEAR (50 TEETH)						
	2	1	7E-8947	1	ADAPTER-PUMP						
	3	1	3K-0715	1	SEAL-O-RING (101.27MM ID)						
	4	1	135-9819	1	SEAL-INTEGRAL						
B	5	1	4P-3855	1	SHIM (1.5 MM THK)						
	6	1	8C-5237	1	SEAL-O-RING (127.37MM ID)						
	7	1	3G-1797	1	SEAL-LIP						

B-USE AS REQUIRED



GRAPHIC #1

g00219799

BASIC ENGINE

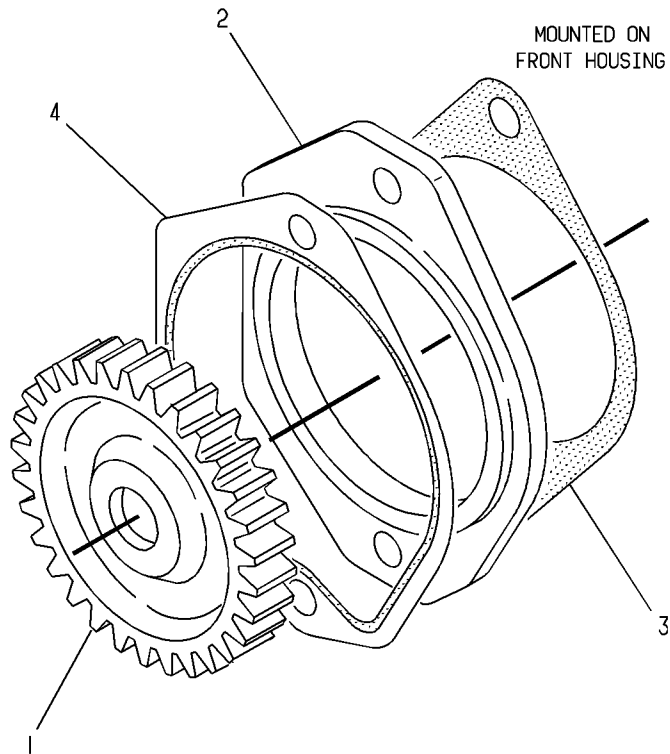
9Y-0608 DRIVE GP-ACCESSORY

60 HP AT 2200 RPM & ABOVE. 55 MAX HP AT 2000 RPM.
 ROTATION IS COUNTER-CLOCKWISE VIEWED FROM DRIVE END OF PUMP
 FOR USE WITH SAE B HYDRAULIC PUMP WITH 1:8 TAPERED SHAFT
 AN ATTACHMENT

SMCS-1207

i01465624

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-0607	1	GEAR (50 TEETH)						
	2	1	7C-1289	1	ADAPTER						
	3	1	9H-8872	1	GASKET						
	4	1	135-9819	1	SEAL (INTEGRAL)						



GRAPHIC #1

g00194565

BASIC ENGINE

9Y-3827 DRIVE GP-ACCESSORY

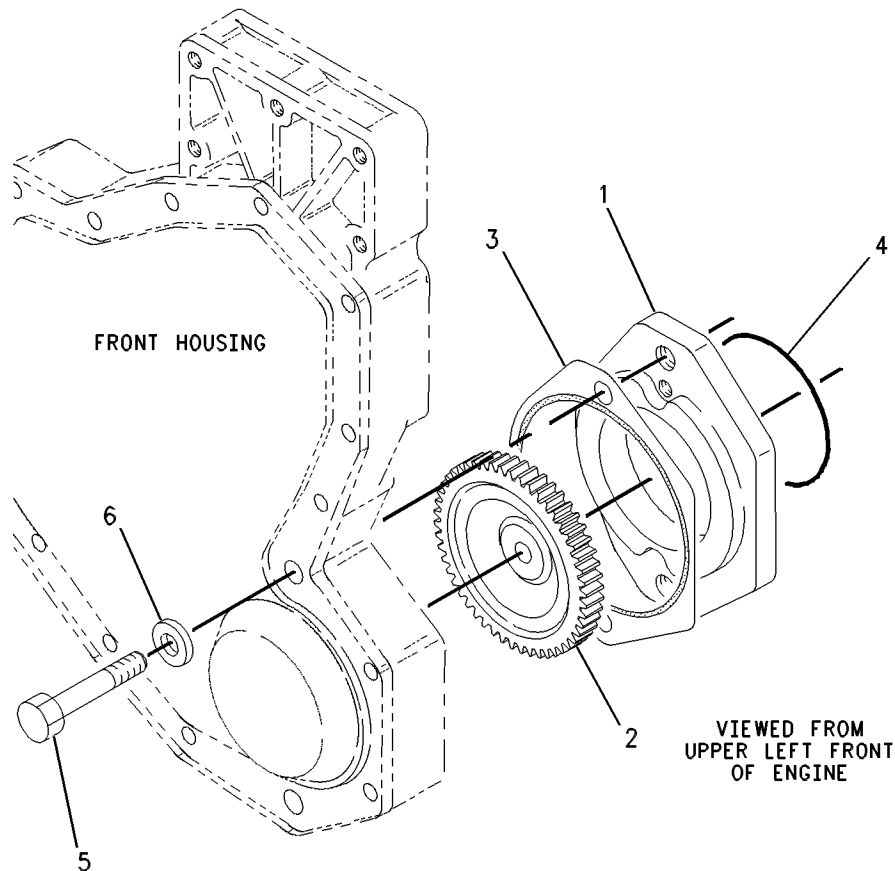
MAXIMUM INPUT 30 HP AT 2000 RPM & ABOVE
 FOR USE WITH SAE A HYDRAULIC PUMP WITH TAPERED SHAFT. ROTATION CCW FROM DRIVE END
 OF PUMP. CANNOT BE USED WITH AIR COMPRESSOR
 AN ATTACHMENT

SMCS-1207

i01199493

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-3828	1	ADAPTER						
	2	1	9Y-3829	1	GEAR-HYDRAULIC PUMP DRIVE (50 TEETH)						
	3	1	135-9819	1	SEAL-INTEGRAL						
	4	1	1P-8362	1	SEAL-O-RING						
M	5	1	6V-3823	2	BOLT (M12X1.75X60MM)						
	6	1	5P-8245	2	WASHER-HARD (3MM THK)						

M-METRIC PART



GRAPHIC #1

g00469616

BASIC ENGINE

132-2057 DRIVE GP-ACCESSORY

9 TOOTH SPLINE

CANNOT BE USED WITH AIR COMPRESSOR, LH OIL FILTER
AN ATTACHMENT

SMCS-1207

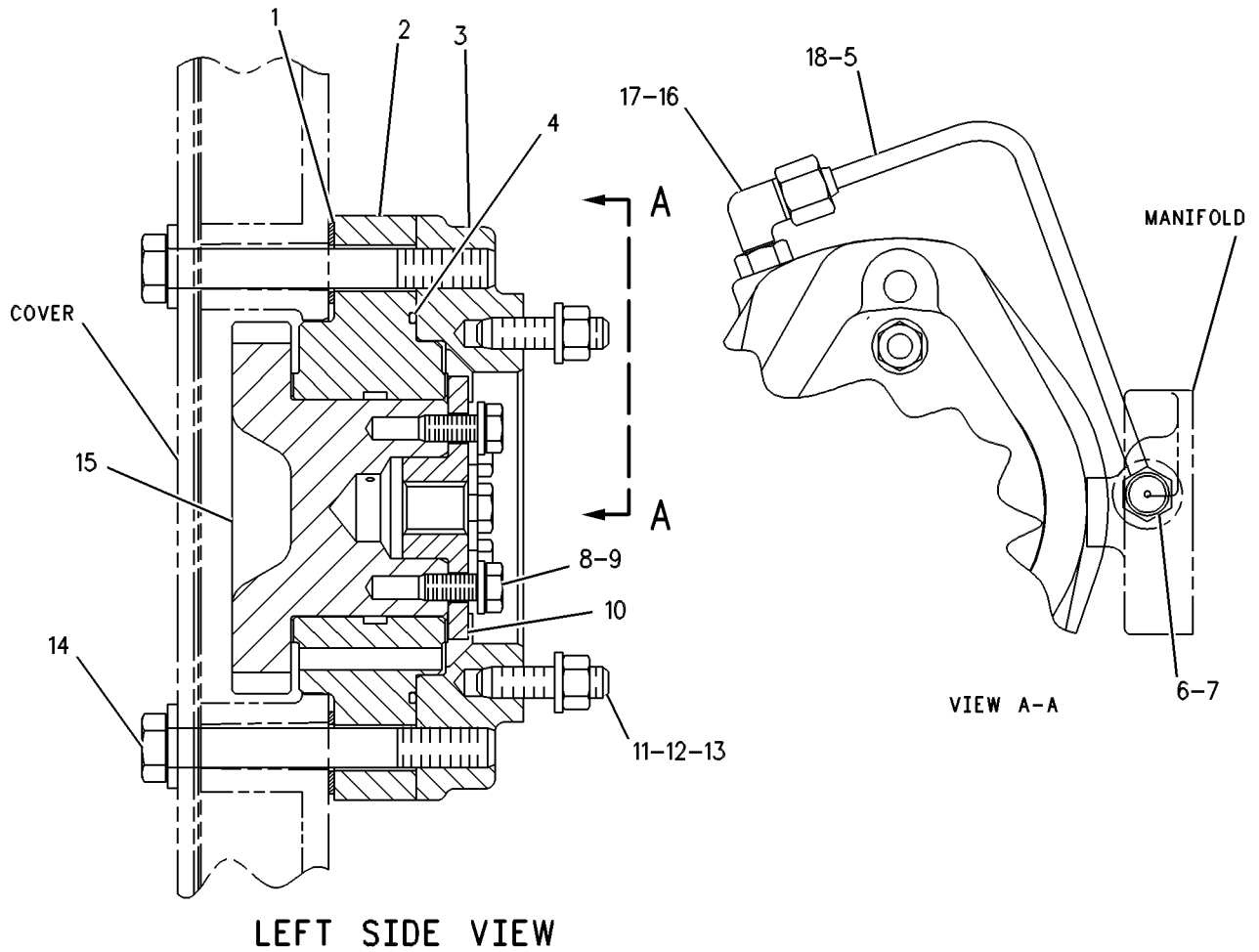
i00937134

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	135-9819	1	SEAL-INTEGRAL						
	2	1	100-7518	1	BEARING						
	3	1	100-7521	1	ADAPTER						
	4	1	6S-3002	1	SEAL-O-RING (113.97MM ID)						
	5	1	4J-5477	2	SEAL-O-RING (8.61MM ID)						
	6	1	6V-8641	1	CONNECTOR-SEAL						
	7	1	3J-1907	1	SEAL-O-RING (11.89MM ID)						
M	8	1	6V-5217	8	BOLT (M8X1.25X20MM)						
	9	1	9M-1974	8	WASHER-HARD (2MM THK)						
	10	1	100-7524	1	COUPLING						
	11	1	2M-1538	2	STUD-TAPERLOCK						
	12	1	5M-2894	2	WASHER (2.5MM THK)						
	13	1	9S-8752	2	NUT-FULL (3/8-16 THD)						
M	14	1	8T-0106	2	BOLT (M12X1.75X100MM)						
	15	1	100-7517	1	GEAR (50 TEETH)						
	16	1	6V-8628	1	ELBOW-90 DEGREE (9/16-18 THD)						
	17	1	3J-7354	1	SEAL-O-RING (8.92MM ID)						
	18	1	100-7520	1	TUBE AS						
M-METRIC PART											

BASIC ENGINE

132-2057 DRIVE GP-ACCESSORY (contd.)

i00937134



GRAPHIC #1

g00257634

BASIC ENGINE

201-7986 DRIVE GP-ACCESSORY

9 TOOTH SPLINED

CANNOT BE USED WITH AIR COMPRESSOR
AN ATTACHMENT

SMCS-1207

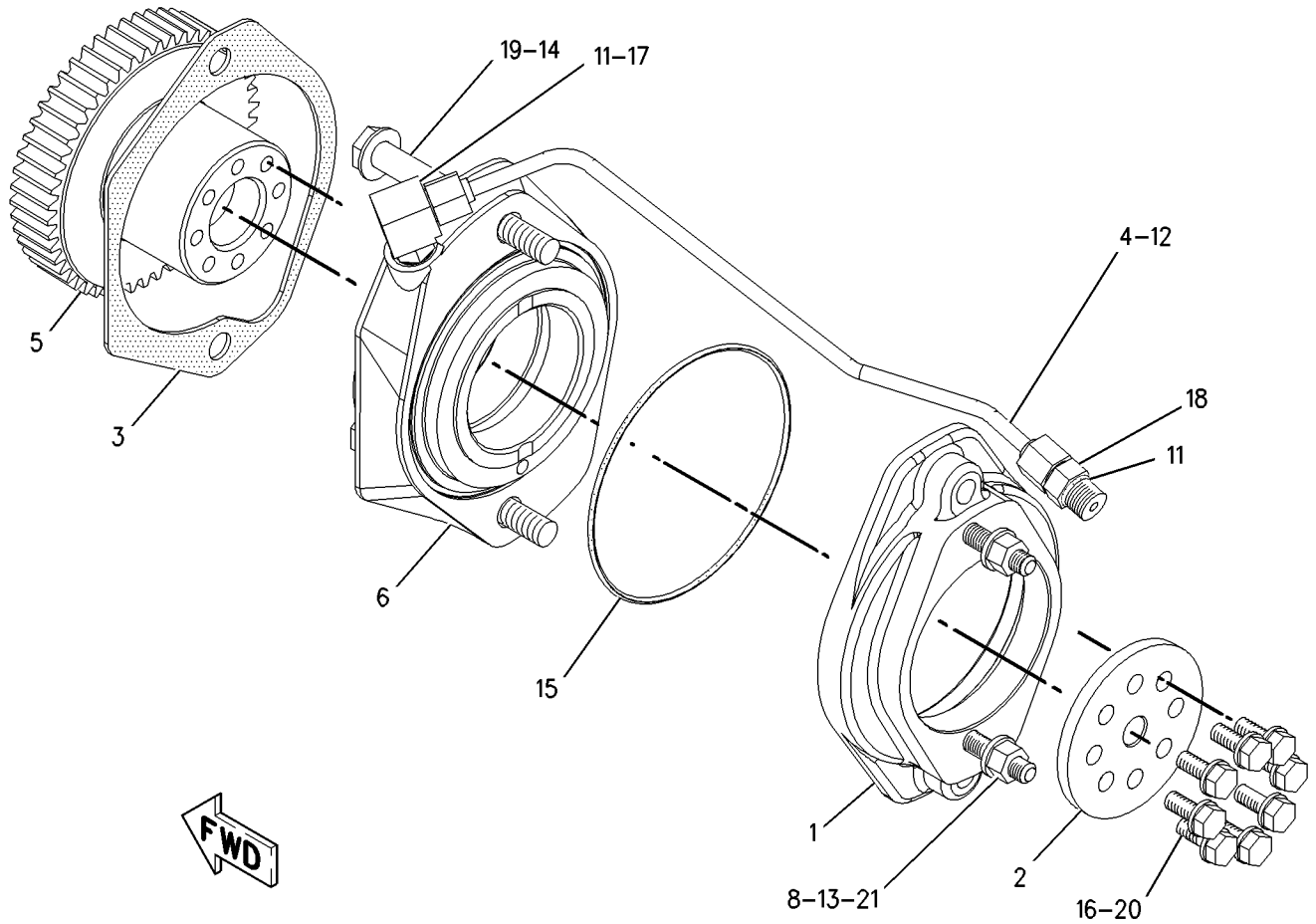
i01619818

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-7521	1	ADAPTER						
	2	1	100-7524	1	COUPLING						
	3	1	135-9819	1	SEAL (INTEGRAL)						
	4	1	201-7660	1	TUBE AS						
	5	1	100-7517	1	GEAR (50 TEETH)						
	6	1	100-7518	1	BEARING						
	8	1	2M-1538	2	STUD-TAPERLOCK						
	11	1	3J-7354	2	SEAL-O-RING						
	12	1	4J-5477	2	SEAL-O-RING						
	13	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5MM THK)						
	14	1	5P-8245	2	WASHER-HARD (13.5X25.5X3MM THK)						
	15	1	6S-3002	1	SEAL-O-RING						
M	16	1	6V-5217	8	BOLT (M8X1.25X20MM)						
	17	1	6V-8628	1	ELBOW						
	18	1	6V-8647	1	CONNECTOR						
M	19	1	8T-0106	2	BOLT (M12X1.75X100MM)						
	20	1	9M-1974	8	WASHER-HARD (8.8X16X2MM THK)						
	21	1	9S-8752	2	NUT-FULL (3/8-16 THD)						
M-METRIC PART											

BASIC ENGINE

201 - 7986 DRIVE GP - ACCESSORY (contd.)

i01619818



GRAPHIC #1

g00839195

BASIC ENGINE

202-3158 DRIVE GP-ACCESSORY

11 TOOTH SPLINE DRIVE
CANNOT BE USED WITH AIR COMPRESSOR
AN ATTACHMENT

SMCS-1207

i01496262

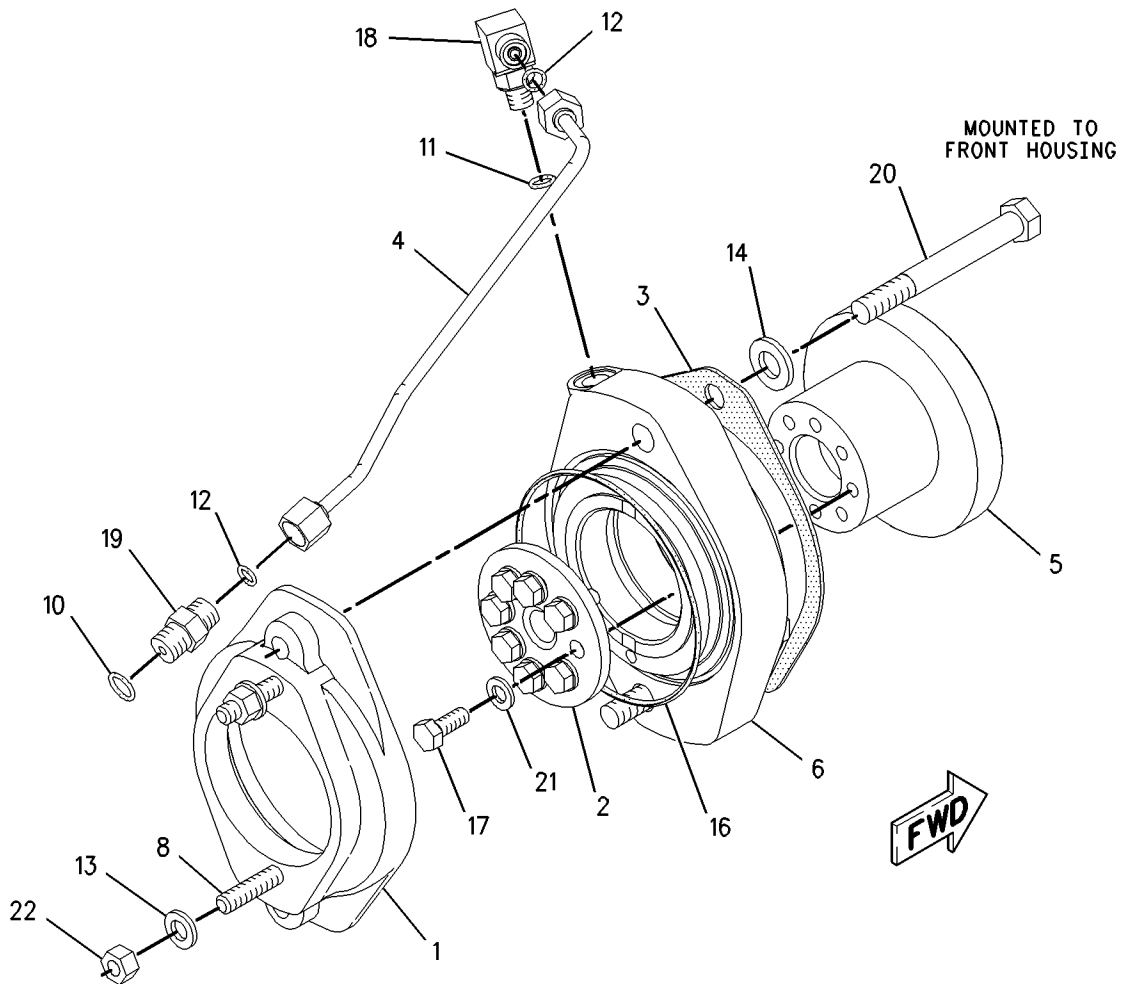
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-7521	1	ADAPTER						
	2	1	100-7523	1	COUPLING						
	3	1	135-9819	1	SEAL (INTEGRAL)						
	4	1	201-7660	1	TUBE AS						
	5	1	100-7517	1	GEAR (50 TEETH)						
	6	1	100-7518	1	BEARING						
	8	1	2M-1538	2	STUD-TAPERLOCK						
	10	1	3J-1907	1	SEAL-O-RING						
	11	1	3J-7354	1	SEAL-O-RING						
	12	1	4J-5477	2	SEAL-O-RING						
	13	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5MM THK)						
	14	1	5P-8245	2	WASHER-HARD (13.5X25.5X3MM THK)						
	16	1	6S-3002	1	SEAL-O-RING						
M	17	1	6V-5217	8	BOLT (M8X1.25X20MM)						
	18	1	6V-8628	1	ELBOW						
	19	1	6V-8641	1	CONNECTOR						
M	20	1	8T-0106	2	BOLT (M12X1.75X100MM)						
	21	1	9M-1974	8	WASHER-HARD (8.8X16X2MM THK)						
	22	1	9S-8752	2	NUT-FULL (3/8-16 THD)						

M-METRIC PART

BASIC ENGINE

202-3158 DRIVE GP-ACCESSORY (contd.)

i01496262



GRAPHIC #1

g00785444

BASIC ENGINE

202-3163 DRIVE GP-ACCESSORY

13 TOOTH SPLINE DRIVE
CANNOT BE USED WITH AIR COMPRESSOR
AN ATTACHMENT

SMCS-1207

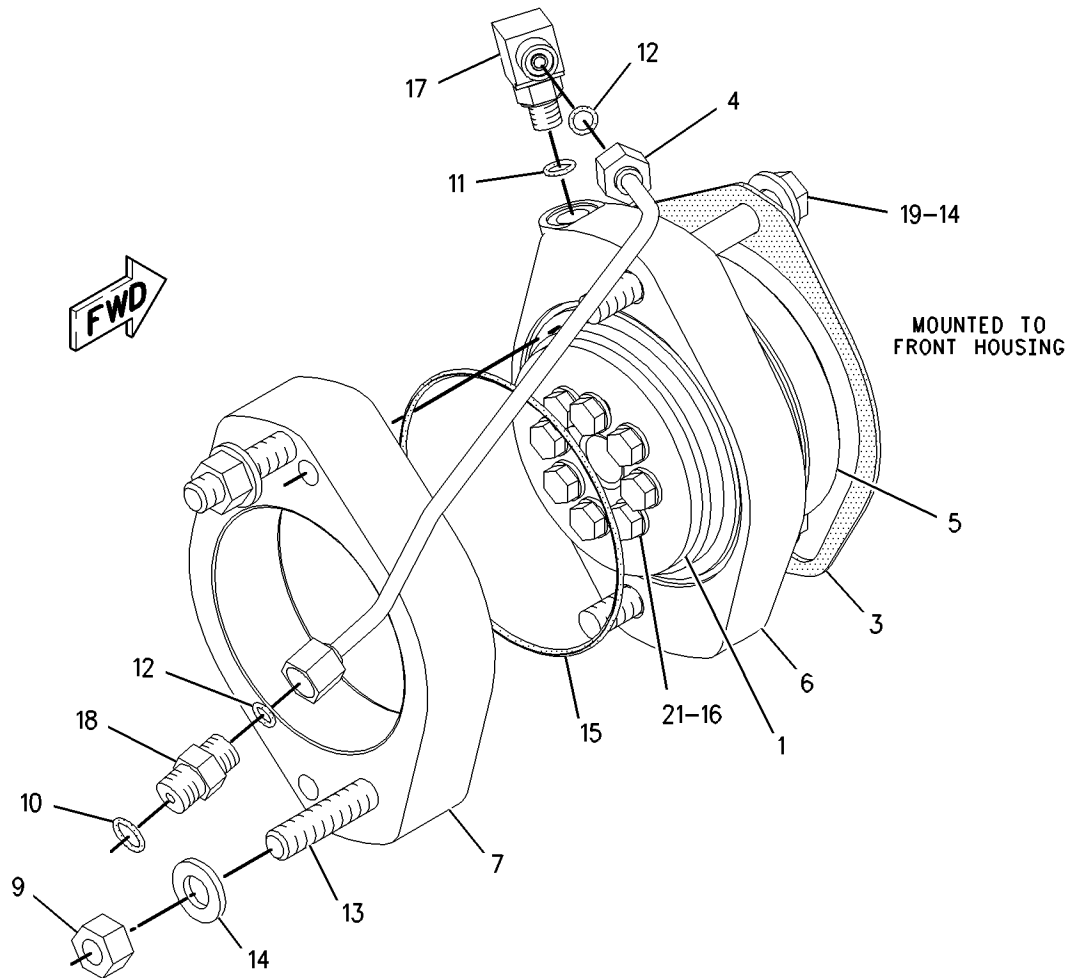
i01496264

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3974	1	COUPLING						
	3	1	135-9819	1	SEAL						
	4	1	201-7660	1	TUBE AS						
	5	1	100-7517	1	GEAR (50 TEETH)						
	6	1	100-7518	1	BEARING						
	7	1	100-7522	1	ADAPTER						
	9	1	1F-7958	2	NUT-FULL (1/2-13 THD)						
	10	1	3J-1907	1	SEAL-O-RING						
	11	1	3J-7354	1	SEAL-O-RING						
	12	1	4J-5477	2	SEAL-O-RING						
	13	1	5M-1932	2	STUD-TAPERLOCK (1/2X13X2.2 IN OAL)						
	14	1	5P-8245	4	WASHER-HARD (13.5X25.5X3MM THK)						
	15	1	6S-3002	1	SEAL-O-RING						
M	16	1	6V-5217	8	BOLT (M8X1.25X20MM)						
	17	1	6V-8628	1	ELBOW						
	18	1	6V-8641	1	CONNECTOR						
M	19	1	8T-0106	2	BOLT (M12X1.75X100MM)						
	21	1	9M-1974	8	WASHER-HARD (8.8X16X2MM THK)						
M-METRIC PART											

BASIC ENGINE

202-3163 DRIVE GP-ACCESSORY (contd.)

i01496264



GRAPHIC #1

g00783449

BASIC ENGINE

194-9463 DRIVE GP-FAN

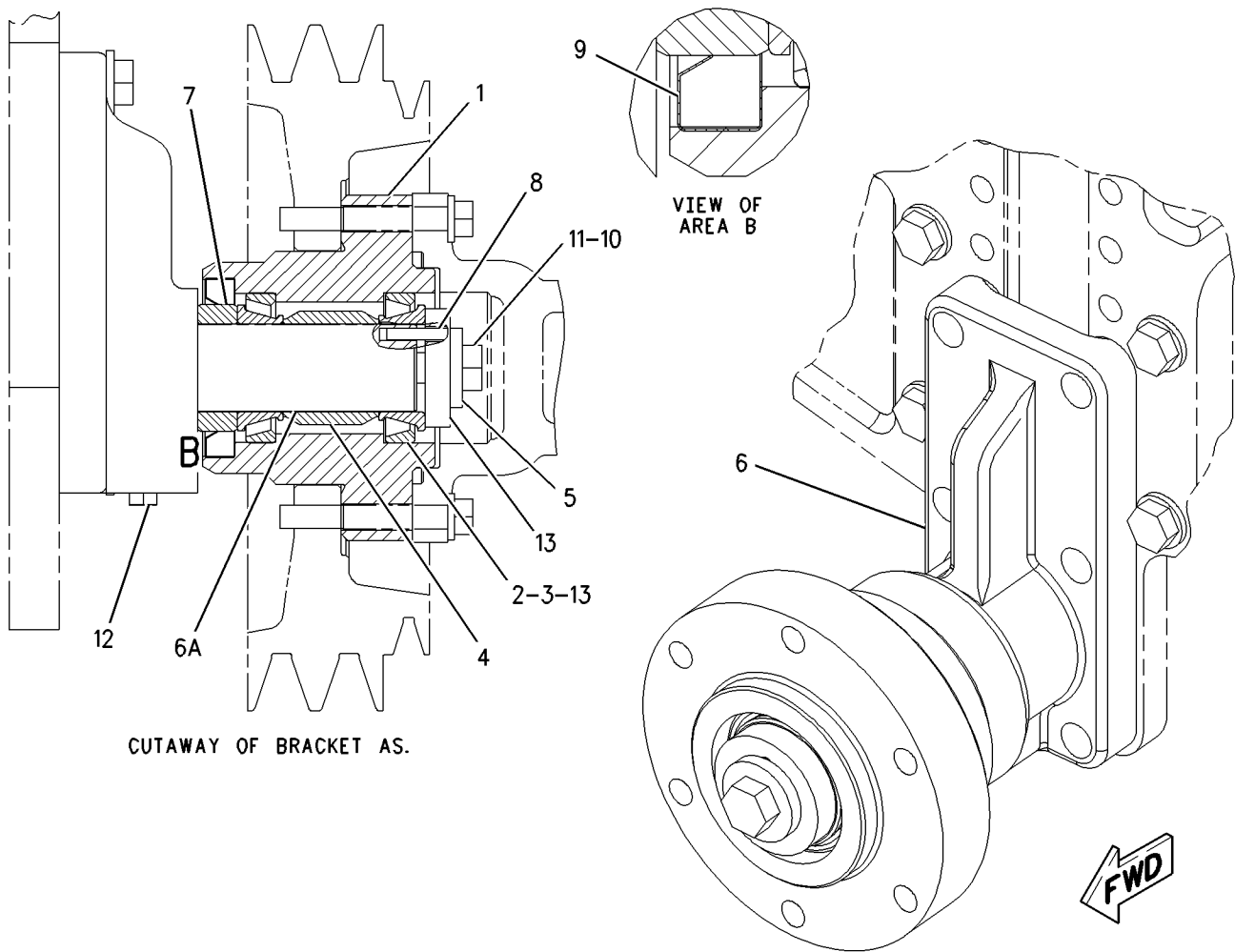
MULTI-POSITION V-BELT ADJUSTMENT; 11 INCH TO 22 INCH FAN HEIGHT
AN ATTACHMENT

SMCS-1359

i01523240

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-5039	1	HUB-FAN PULLEY						
	2	1	4W-1203	2	CUP-ROLLER BEARING						
	3	1	4W-1204	2	CONE-ROLLER BEARING						
	4	1	4W-2042	1	SPACER (35.3X45.5X38.331MM THK)						
	5	1	7E-4808	1	PLATE						
	6	1	194-9462	1	BRACKET AS						
	6A	1	129-5617	1	SHAFT-FAN						
	7	1	5S-9062	1	SPACER (35.032X50.8X15.88MM THK)						
	8	1	6H-3956	1	PIN						
	9	1	6V-9748	1	SEAL-LIP						
	10	1	7D-1649	1	WASHER-HARD (13.5X32X5MM THK)						
M	11	1	8T-0162	1	BOLT (M12X1.75X160MM)						
	12	1	8T-6764	1	PLUG-PIPE						

M-METRIC PART



GRAPHIC #1

g00791294

BASIC ENGINE

120-6657 DRIVE GP-WATER PUMP

1.33:1 DRIVE RATIO

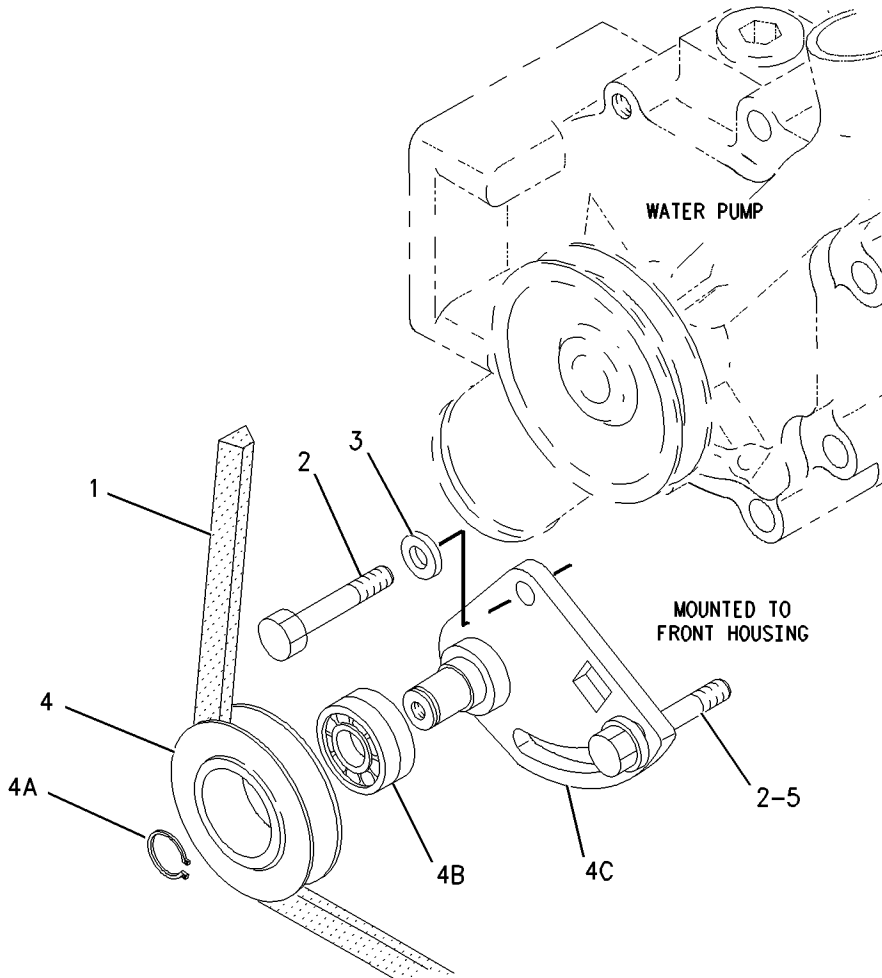
AN ATTACHMENT

SMCS-1361

i01605275

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	036-6775	1	V-BELT (PUMP DRIVE)						
M	2	1	6V-2317	2	BOLT (M8X1.25X30MM)						
	3	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
	4	1	115-4204	1	PULLEY AS-IDLER						
	4A	1	2L-8509	1	LOCK RING						
	4B	1	117-7114	1	BEARING AS-BALL						
	4C	1	100-6267	1	PLATE AS-IDLER						
	5	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00810617

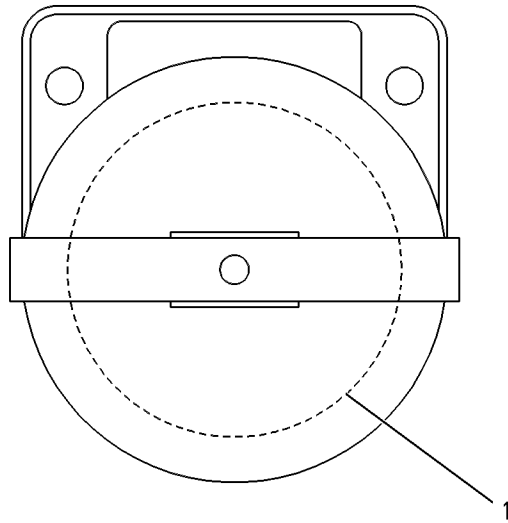
BASIC ENGINE

9L-3690 ELEMENT AS-AIR COMPRESSOR AN ATTACHMENT

SMCS-1803

i00638457

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9L-2169	1	ELEMENT AS-AIR COMPRESSOR						



GRAPHIC #1

g00253789

BASIC ENGINE

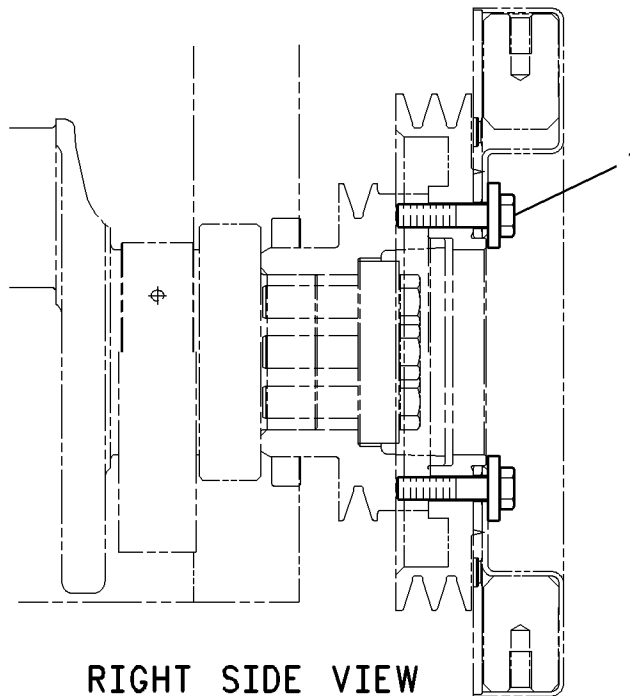
117-6487 FASTENER GP-DAMPER AN ATTACHMENT

SMCS-1205

i01622067

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-2561	8	WASHER-HARD (10.5X28.5X5MM THK)						
M		1	6V-5843	8	BOLT (M10X1.50X45MM)						

M-METRIC PART



GRAPHIC #1

g00839336

BASIC ENGINE

132-1980 FASTENER GP-DAMPER

FOR USE WITH 132-1976-PAGE 64

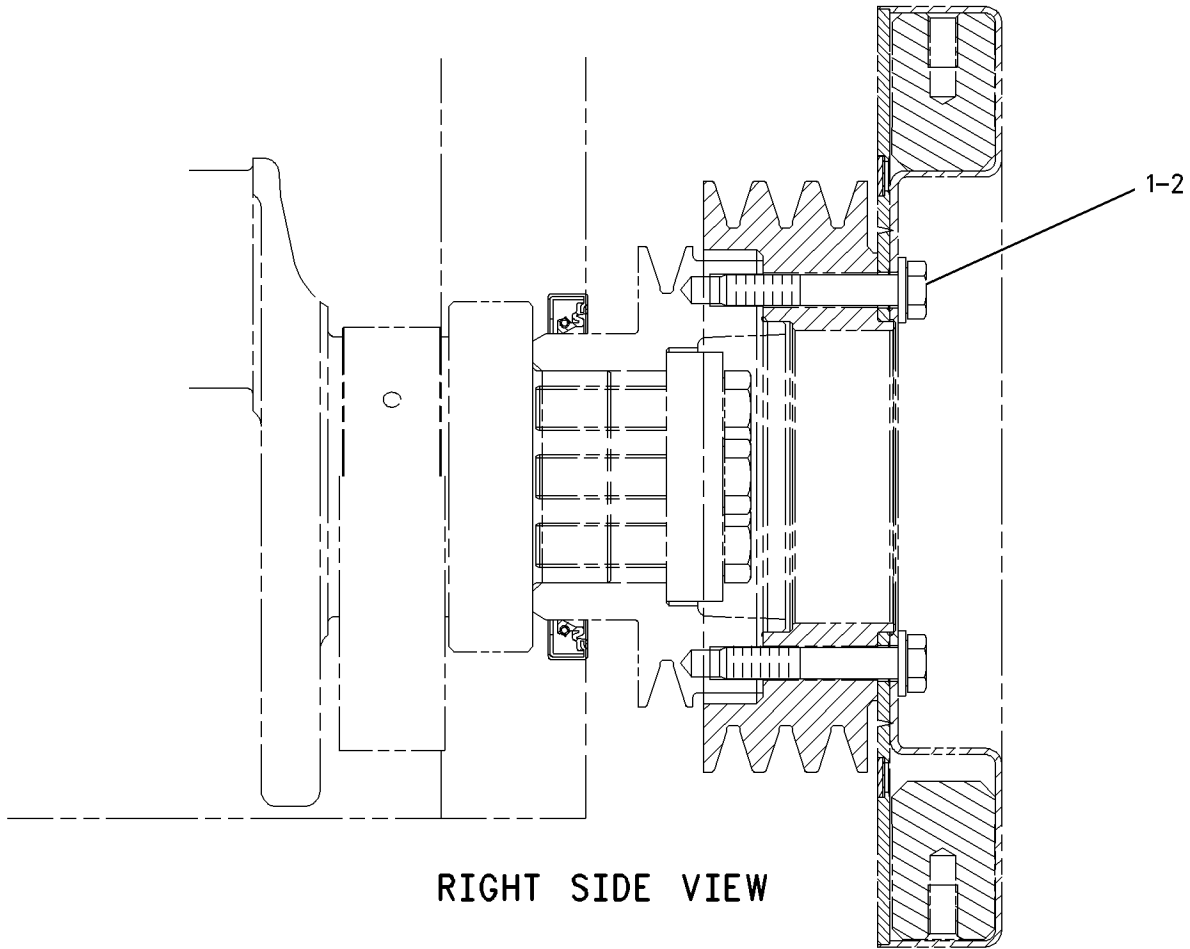
AN ATTACHMENT

SMCS-1205

i01622069

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-5230	8	BOLT (M10X1.5X60MM)						
	2	1	6V-5839	8	WASHER (11X21X2.5MM THK)						

M-METRIC PART



RIGHT SIDE VIEW

GRAPHIC #1

g00839337

BASIC ENGINE

177-5064 FASTENER GP-DAMPER

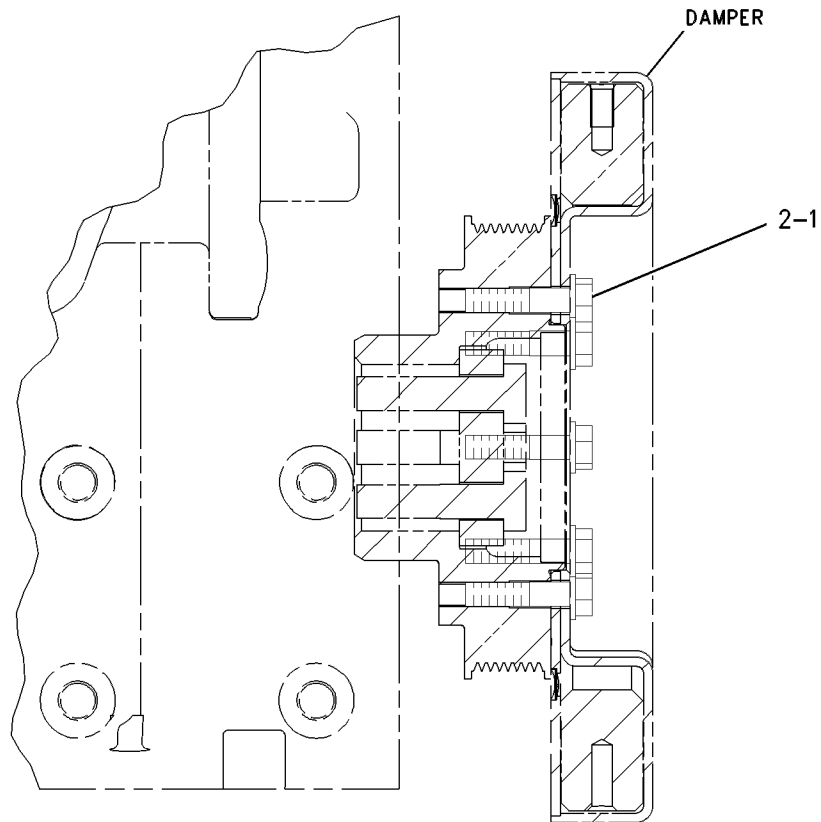
FOR USE WITH 165-4557-PAGE 65

SMCS-1205

i01567797

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-5839	8	WASHER (11X21X2.5MM THK)						
M	2	1	6V-5843	8	BOLT (M10X1.50X45MM)						

M-METRIC PART



RIGHT SIDE VIEW

GRAPHIC #1

g00632979

BASIC ENGINE

194-9469 FASTENER GP-DAMPER

DAMPER/PULLEY

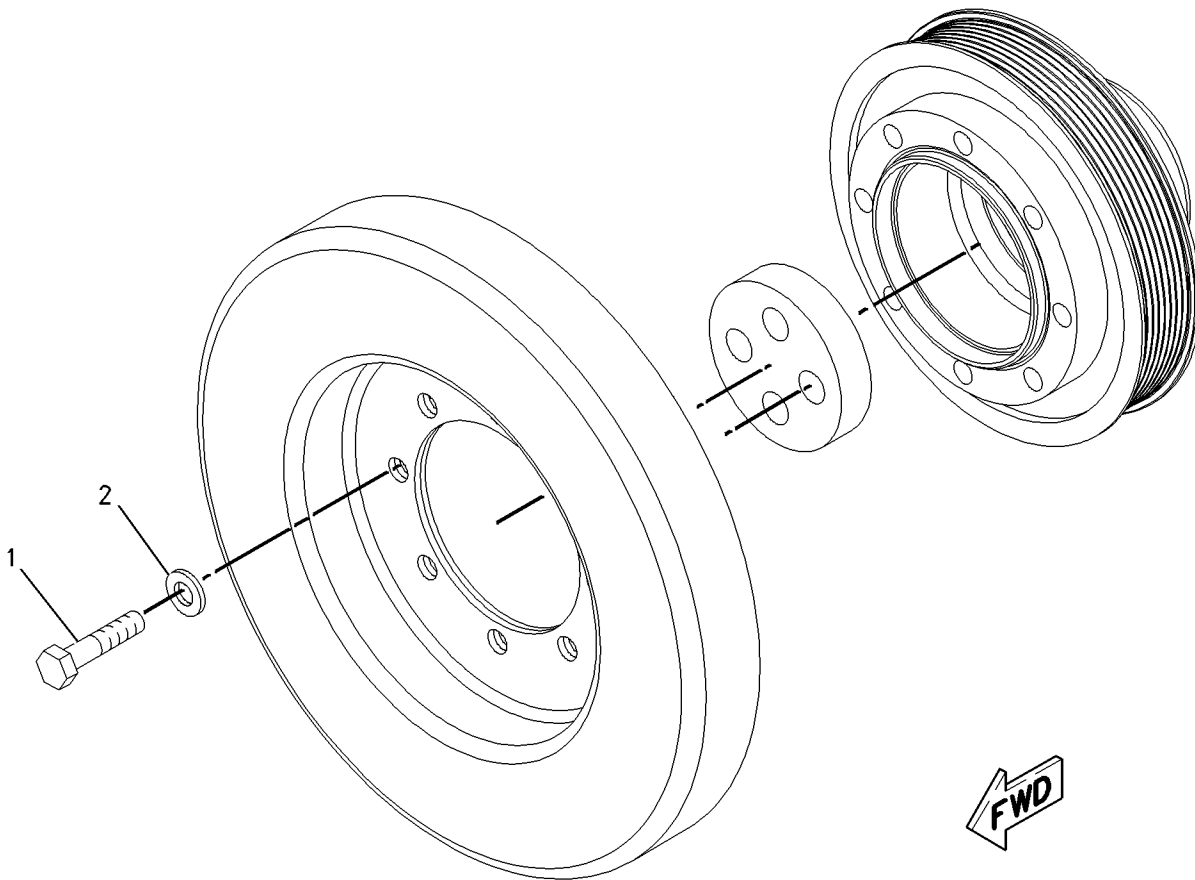
FOR USE WITH 194-9459-PAGE 67, 194-9458-PAGE 66. CANNOT BE USED WITH STUB SHAFT
AN ATTACHMENT

SMCS-1205

i01439852

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-5815	8	BOLT (M10X1.5X75MM)						
	2	1	6V-5839	8	WASHER (11X21X2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00755201

BASIC ENGINE

132 - 1458 FASTENER GP - ENGINE MOUNTING

POSITIVE BUILD

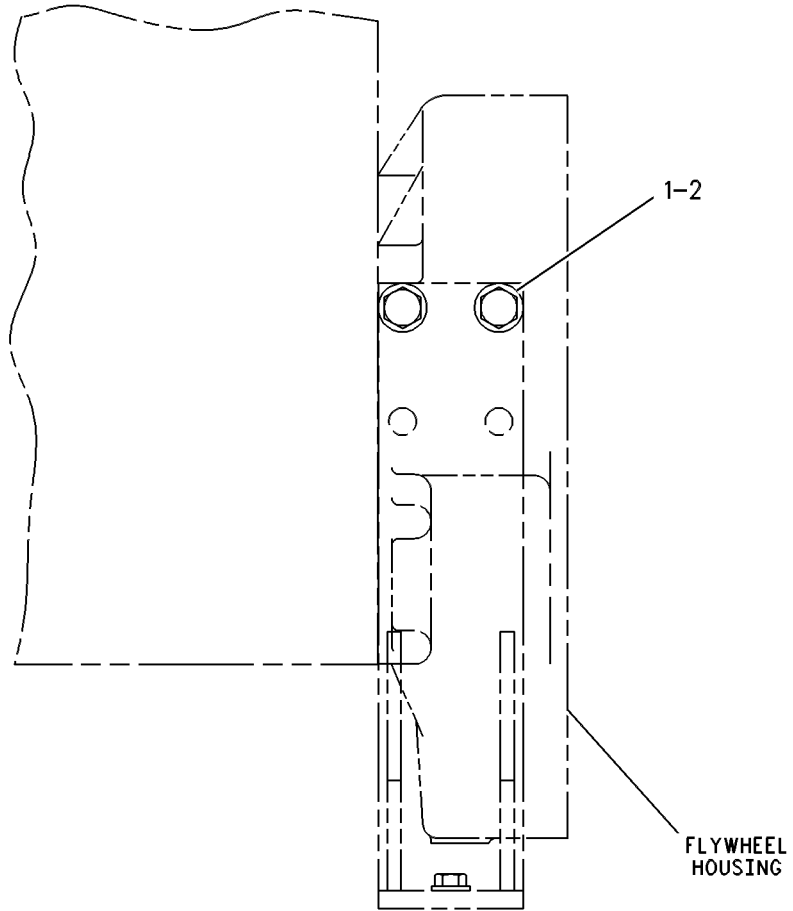
FOR USE WITH REAR MOUNTING WHEN SHUTOFF IS NOT INSTALLED, 132-1455-PAGE 153,
132-1454-PAGE 152
AN ATTACHMENT

SMCS-1154

i00639720

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-4429	2	BOLT (M16X2.0X40MM)						
	2	1	5P-8247	2	WASHER-HARD (3.5MM THK)						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00257763

BASIC ENGINE

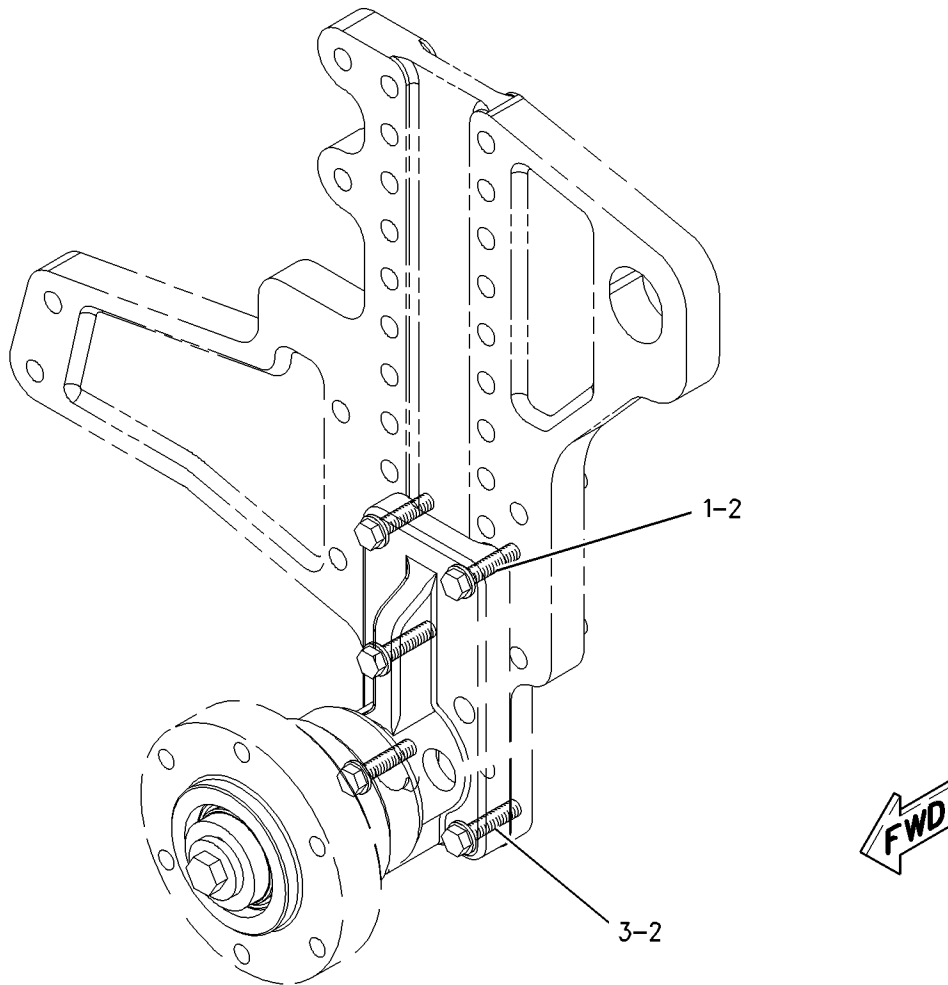
198-7629 FASTENER GP-FAN DRIVE FOR USE WITH 11 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433120

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	4	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	5	WASHER-HARD (13.5X25.5X3MM THK)						
M	3	1	8T-4956	1	BOLT (M12X1.75X35MM)						

M-METRIC PART



GRAPHIC #1

g00751432

BASIC ENGINE

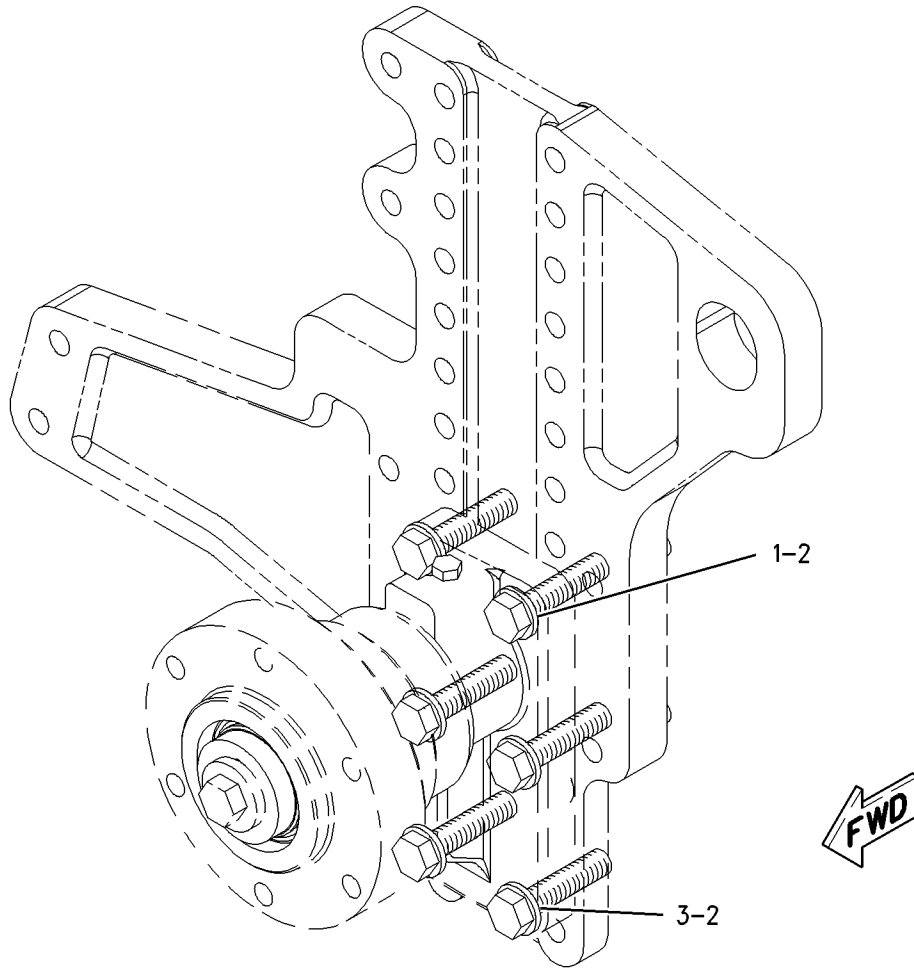
198-7630 FASTENER GP-FAN DRIVE FOR USE WITH 12 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433170

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	5	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						
M	3	1	8T-4956	1	BOLT (M12X1.75X35MM)						

M-METRIC PART



GRAPHIC #1

g00751566

BASIC ENGINE

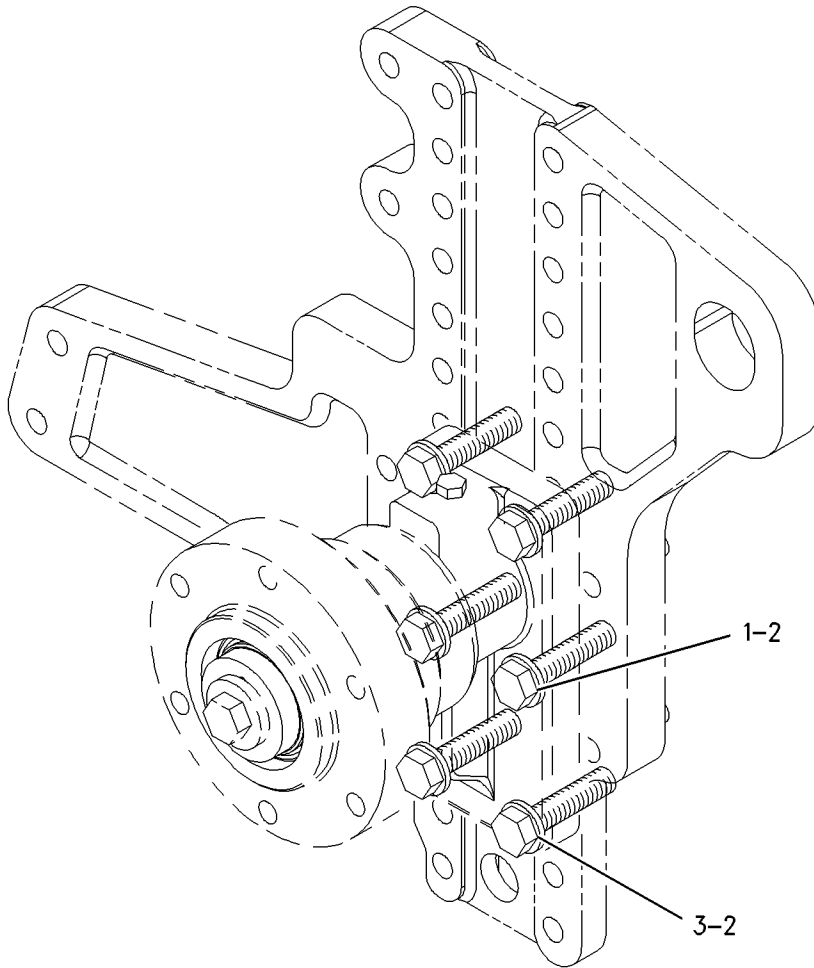
198-7631 FASTENER GP-FAN DRIVE FOR USE WITH 13 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433176

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	5	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						
M	3	1	8T-4956	1	BOLT (M12X1.75X35MM)						

M-METRIC PART



GRAPHIC #1

g00751577

BASIC ENGINE

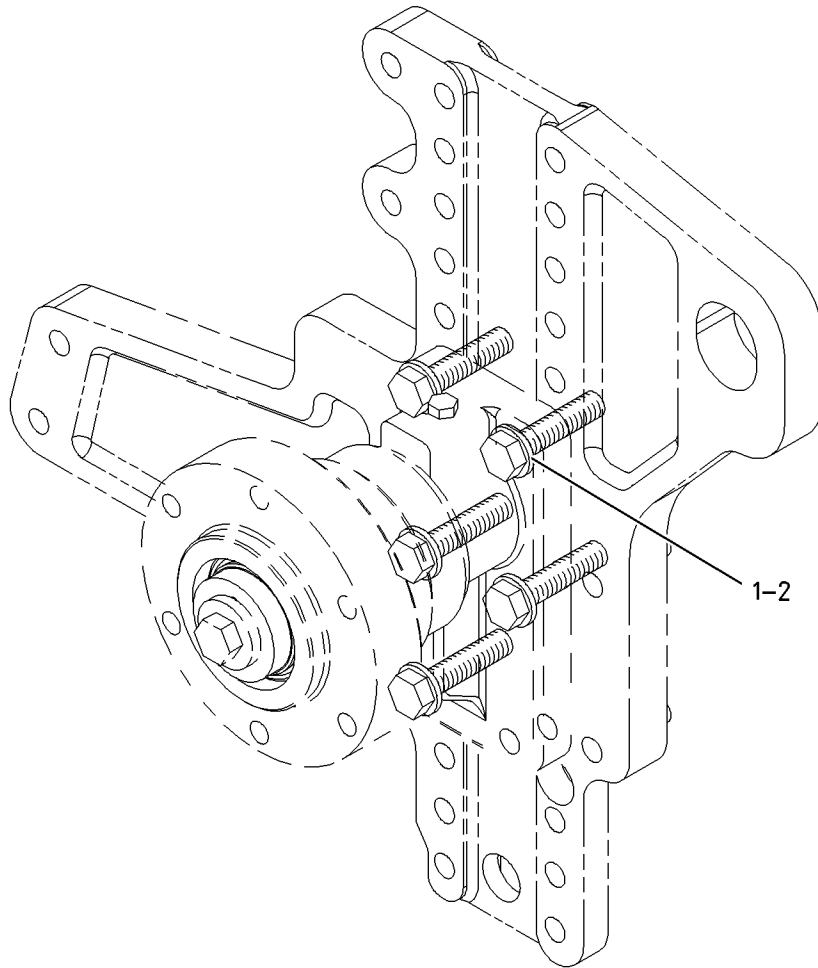
198 - 7632 FASTENER GP - FAN DRIVE FOR USE WITH 14 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS - 1359

i01433180

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	5	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	5	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751584

BASIC ENGINE

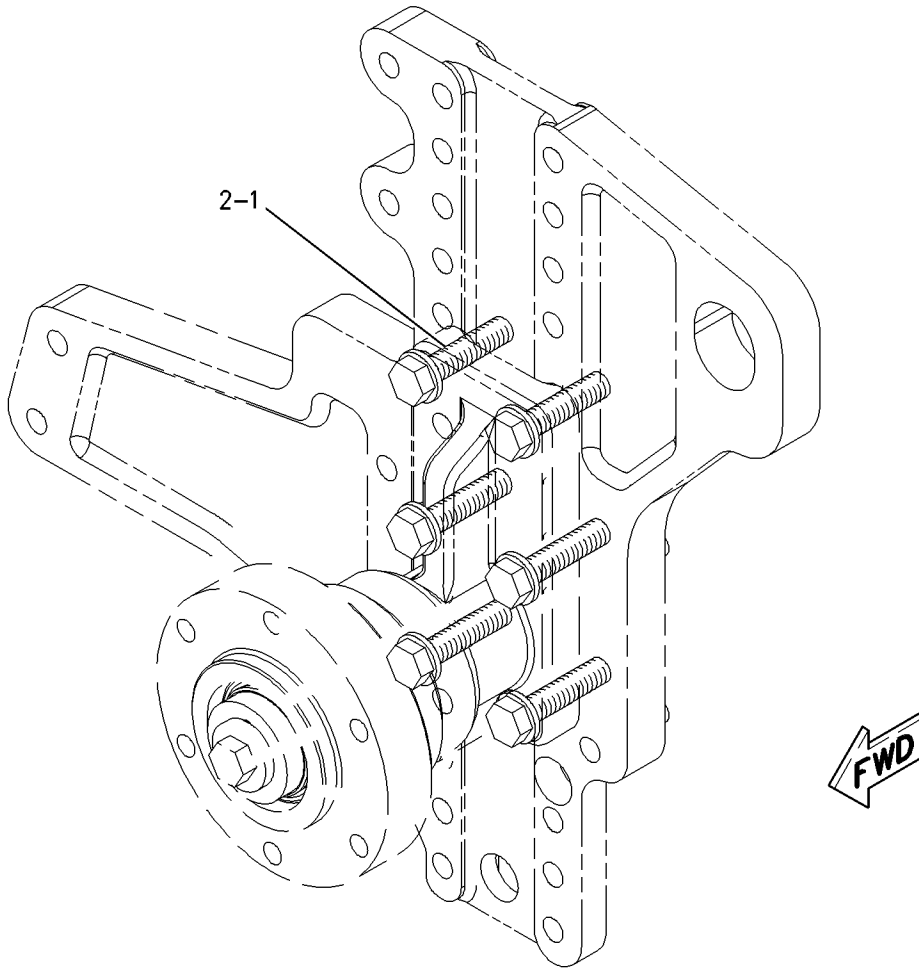
198-7633 FASTENER GP-FAN DRIVE FOR USE WITH 15 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433189

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751480

BASIC ENGINE

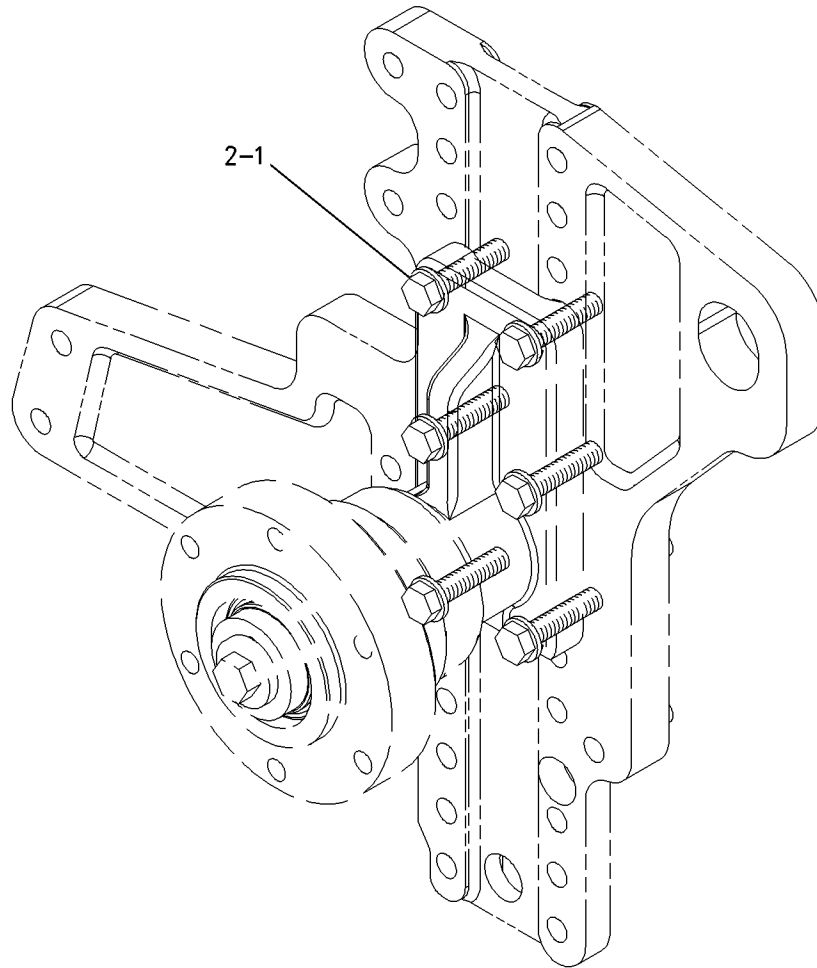
198-7634 FASTENER GP-FAN DRIVE FOR USE WITH 16 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751492

BASIC ENGINE

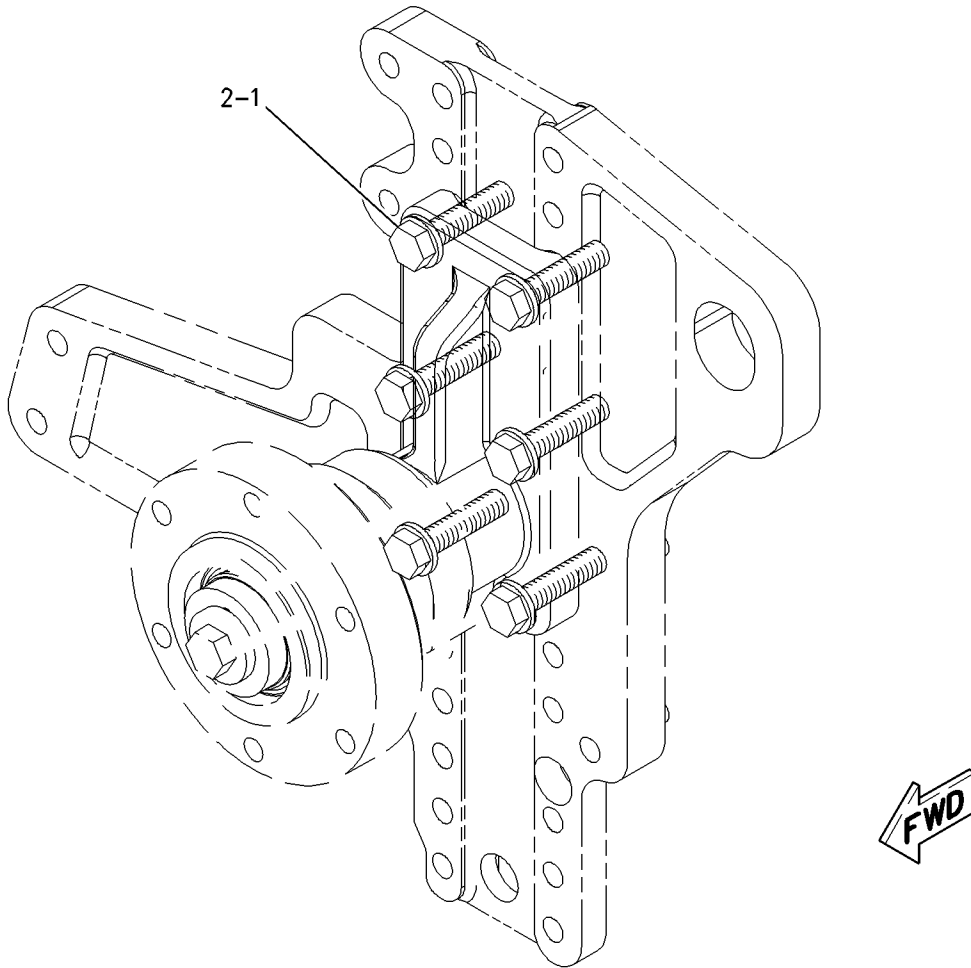
198 - 7635 FASTENER GP - FAN DRIVE FOR USE WITH 17 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS - 1359

i01433196

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751503

BASIC ENGINE

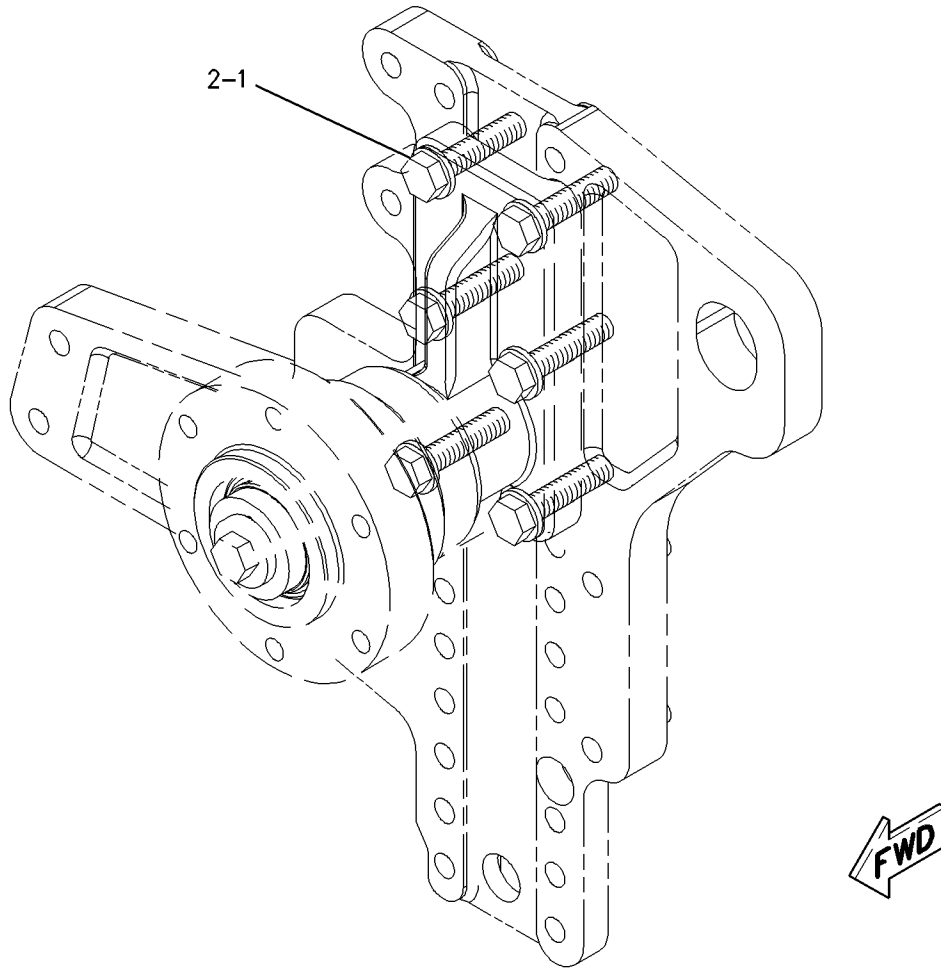
198-7636 FASTENER GP-FAN DRIVE FOR USE WITH 18 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433203

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751521

BASIC ENGINE

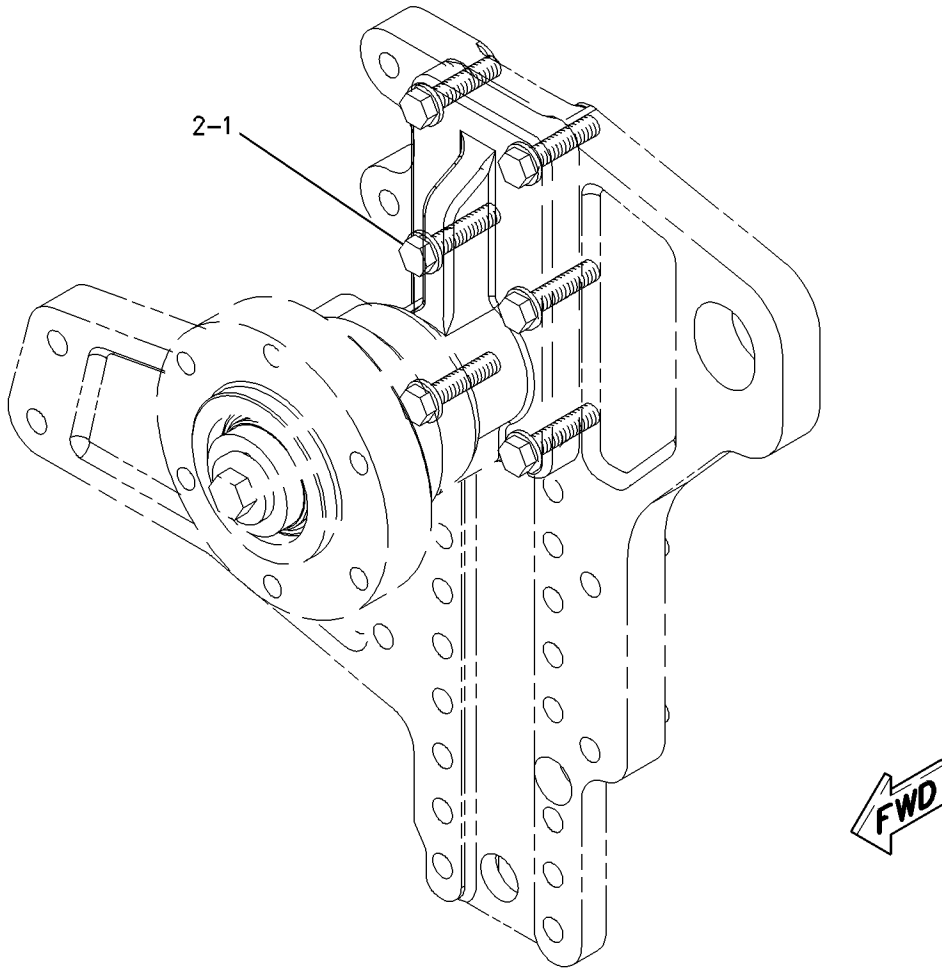
198-7637 FASTENER GP-FAN DRIVE FOR USE WITH 19 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433228

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751526

BASIC ENGINE

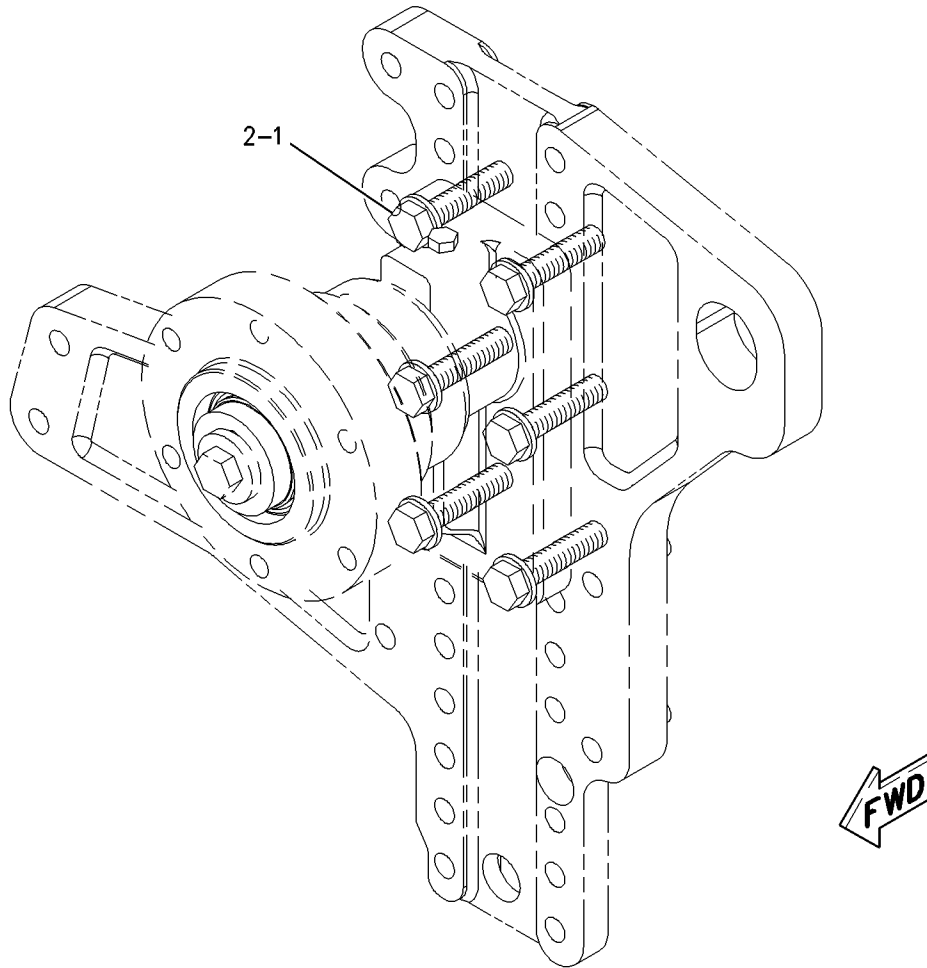
198-7638 FASTENER GP-FAN DRIVE FOR USE WITH 20 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433233

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751529

BASIC ENGINE

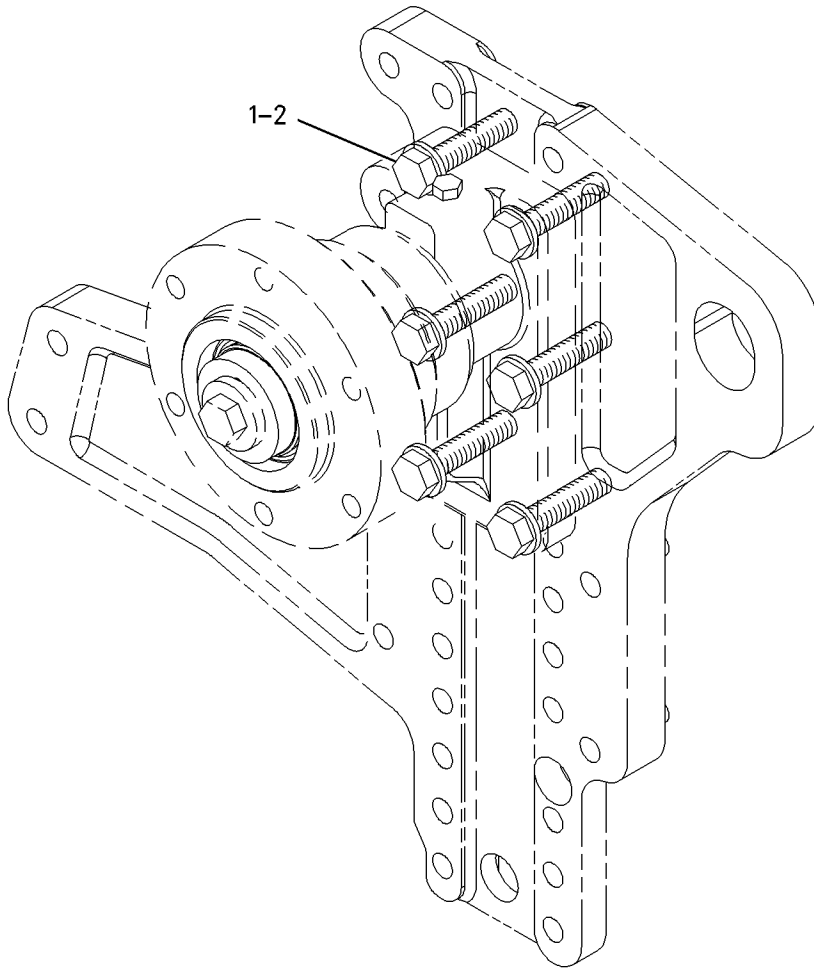
198-7639 FASTENER GP-FAN DRIVE FOR USE WITH 21 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433239

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751556

BASIC ENGINE

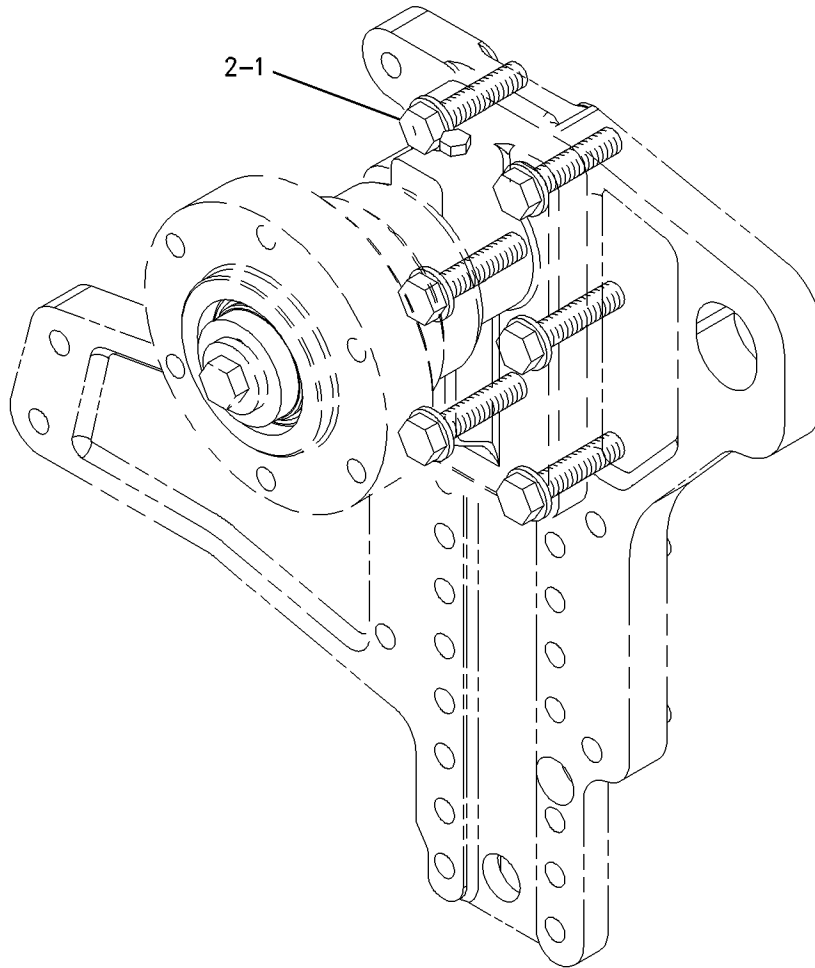
198-7640 FASTENER GP-FAN DRIVE FOR USE WITH 22 INCH FAN DRIVE HEIGHT, 194-9463-PAGE 88 AN ATTACHMENT

SMCS-1359

i01433260

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4183	6	BOLT (M12X1.75X40 MM)						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



GRAPHIC #1

g00751562

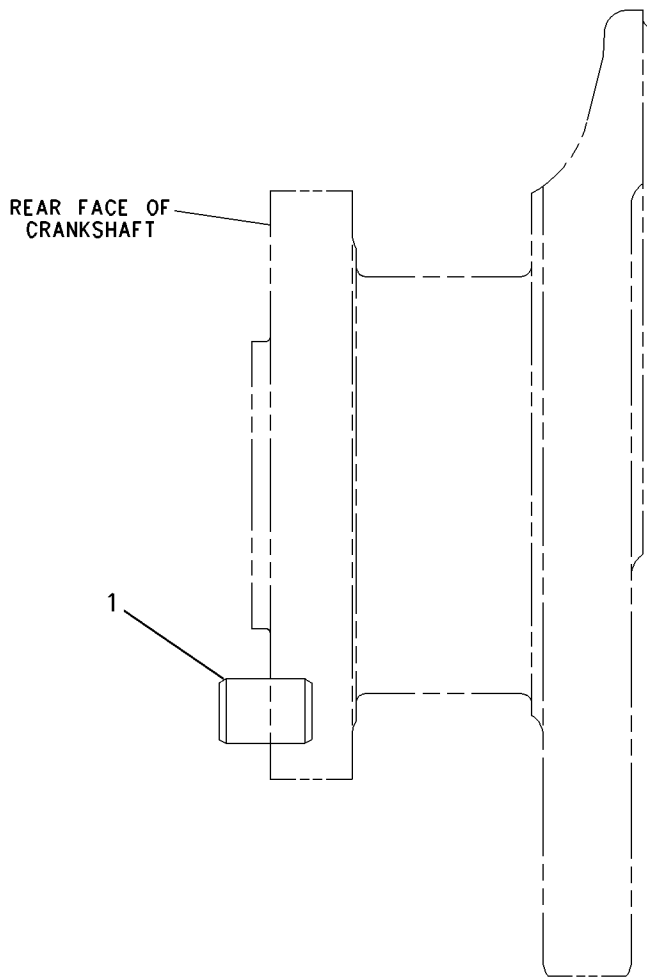
BASIC ENGINE

121-8786 FASTENER GP-FLYWHEEL FOR USE WITH AUTOMATIC TRANSMISSION AN ATTACHMENT

SMCS-1156

i01438462

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-3213	1	PIN-SPRING						



GRAPHIC #1

g00753603

BASIC ENGINE

116-4556 FASTENER GP-FRONT HOUSING

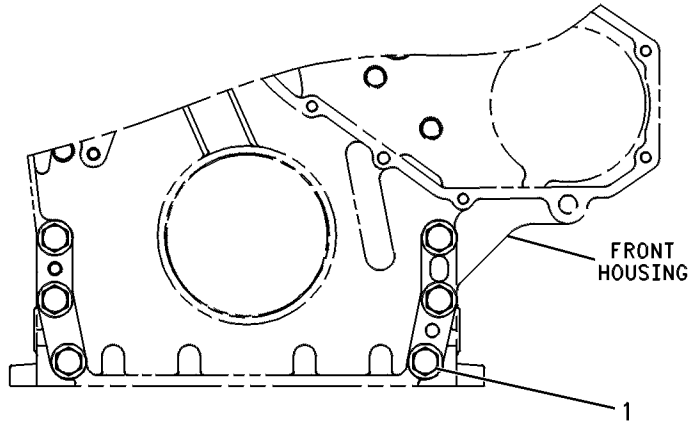
CANNOT BE USED WITH 132-2022-PAGE 200, FRONT ENGINE SUPPORT
ALSO AN ATTACHMENT

SMCS-1151, 1162

i01427276

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-8336	6	BOLT (M12X1.75X70MM)						
		1	5P-8245	6	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

g00244671

BASIC ENGINE

154-7192 FASTENER GP - FRONT HOUSING

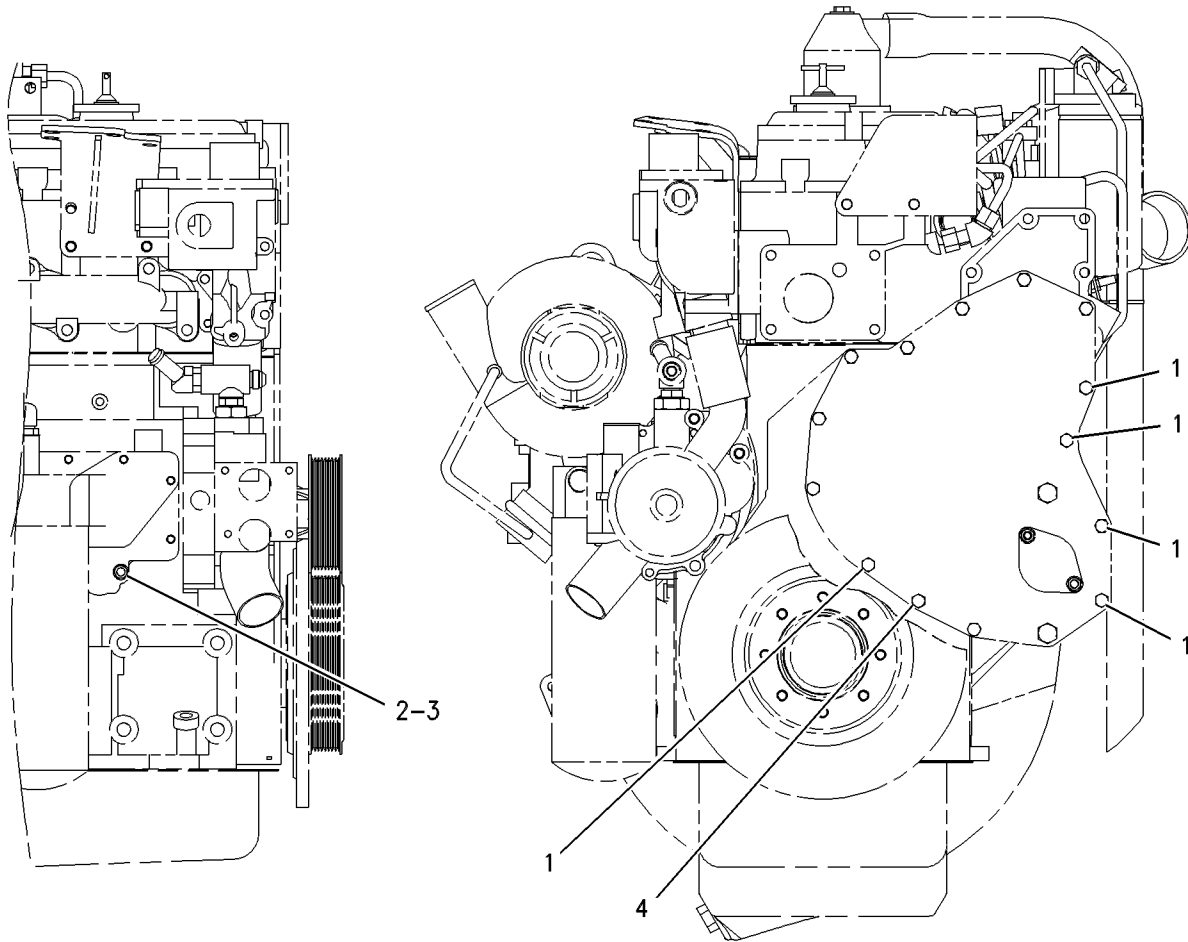
FOR USE WITH FRONT COVER, NO STUDS, SHORT FRONT END
AN ATTACHMENT

SMCS-1151, 1162

i01373115

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-2317	5	BOLT (M8X1.25X30MM)						
M	2	1	9X-2098	1	STUDBOLT (M8X1.25X67.75MM OAL)						
	3	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
M	4	1	8T-0100	1	BOLT (M8X1.25X60MM)						

M-METRIC PART



RIGHT SIDE VIEW

FRONT VIEW

GRAPHIC #1

g00441463

BASIC ENGINE

166-1788 FASTENER GP-FRONT HOUSING

CANNOT BE USED WITH AIR COMPRESSOR

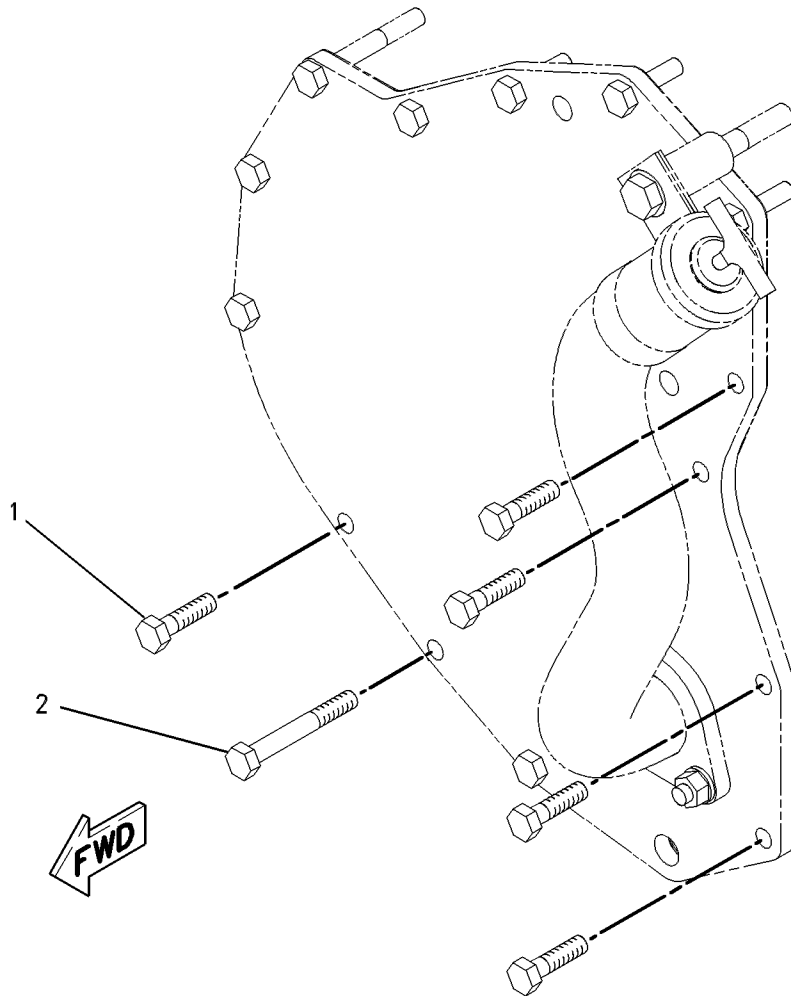
ALSO AN ATTACHMENT

SMCS-1151, 1162

i01225865

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-2317	5	BOLT (M8X1.25X30MM)						
M	2	1	8T-0100	1	BOLT (M8X1.25X60MM)						

M-METRIC PART



MOUNTED TO FRONT
TIMING COVER

GRAPHIC #1

g00628156

BASIC ENGINE

113-6170 FASTENER GP-LIFTING

REAR

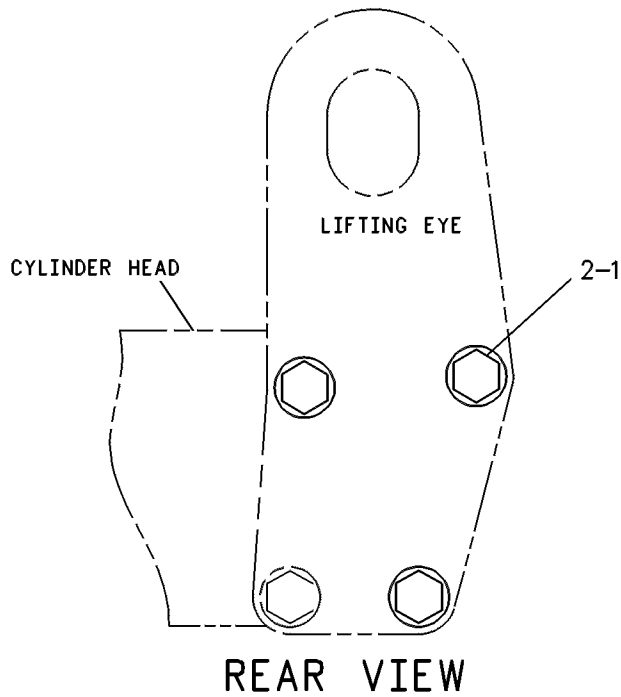
CANNOT BE USED WITH REMOTE FUEL FILTER
ALSO AN ATTACHMENT

SMCS-1122

i01569044

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						
M	2	1	8T-4136	3	BOLT (M10X1.5X25MM)						

M-METRIC PART



GRAPHIC #1

g00246972

BASIC ENGINE

117-3477 FASTENER GP-LIFTING

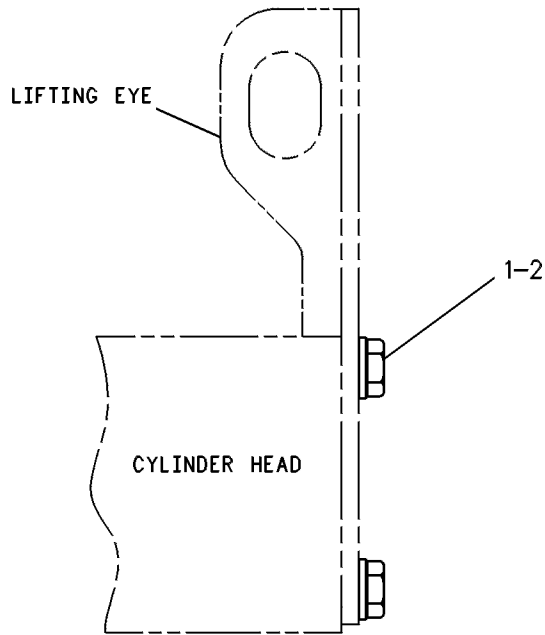
FRONT
CANNOT BE USED WITH FAN DRIVE
AN ATTACHMENT

SMCS-1122

i00638180

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-4248	4	BOLT (M10X1.50X25MM)						
	2	1	6V-5839	4	WASHER (2.5MM THK)						

M-METRIC PART



RIGHT SIDE VIEW

GRAPHIC #1

g00247017

BASIC ENGINE

197-8100 FASTENER GP-LIFTING

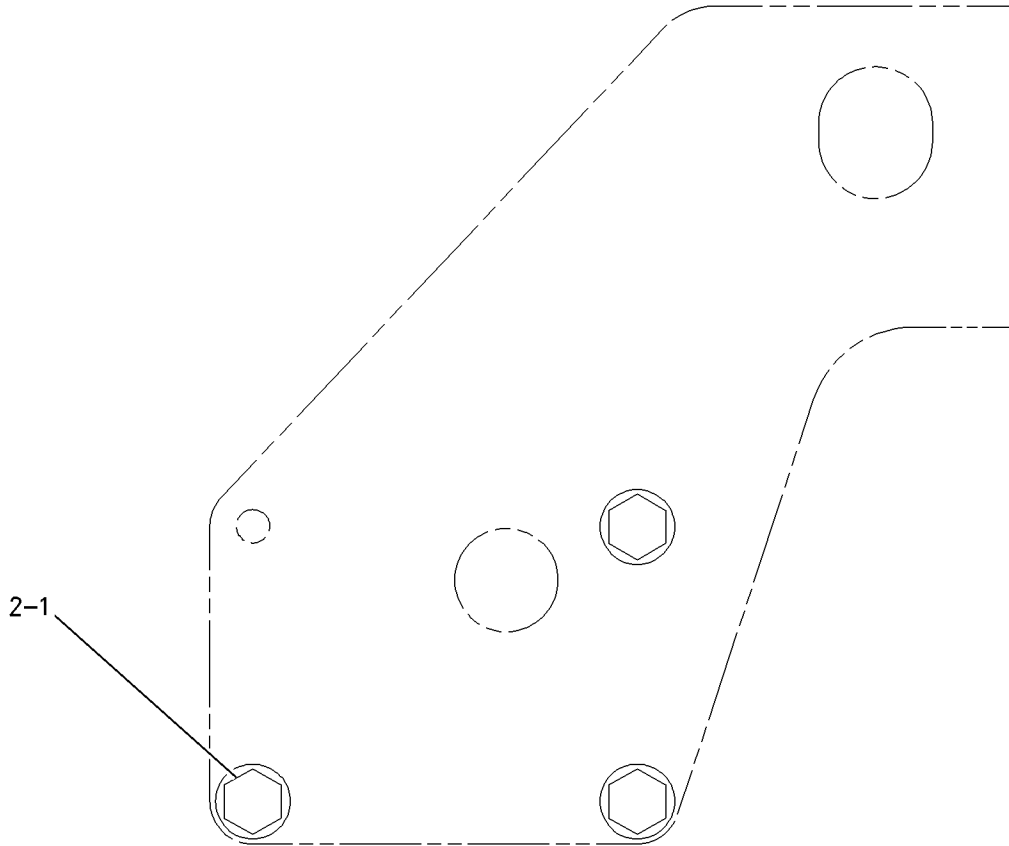
FOR USE WITH ALTERNATOR GROUP, "C" SIZE BELT. CANNOT BE USED WITH FAN DRIVE
SUPPORT BRACKET
AN ATTACHMENT

SMCS-1122

i01436060

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-4248	3	BOLT (M10X1.50X25MM)						
	2	1	6V-5839	3	WASHER (11X21X2.5MM THK)						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

g00753914

BASIC ENGINE

117-2747 FLANGE GP-OUTPUT SHAFT

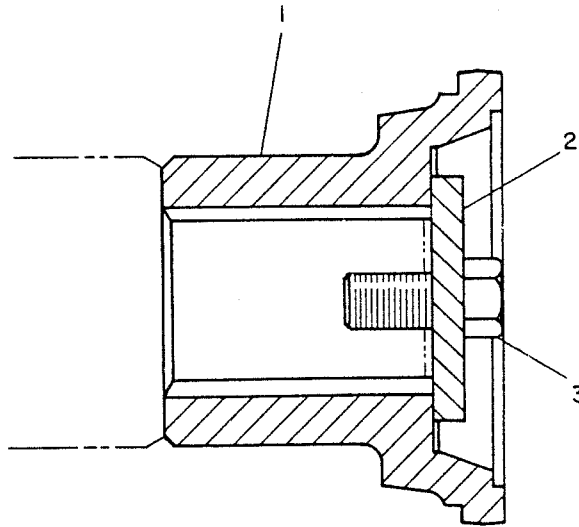
DANA 1350 AND 1410 COUPLING

AN ATTACHMENT

SMCS-1014

i01102495

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-6496	1	FLANGE						
	2	1	5V-7190	1	WASHER-HARD (6MM THK)						
	3	1	0L-1351	1	BOLT (3/8-16X.875IN)						



GRAPHIC #1

g00185991

BASIC ENGINE

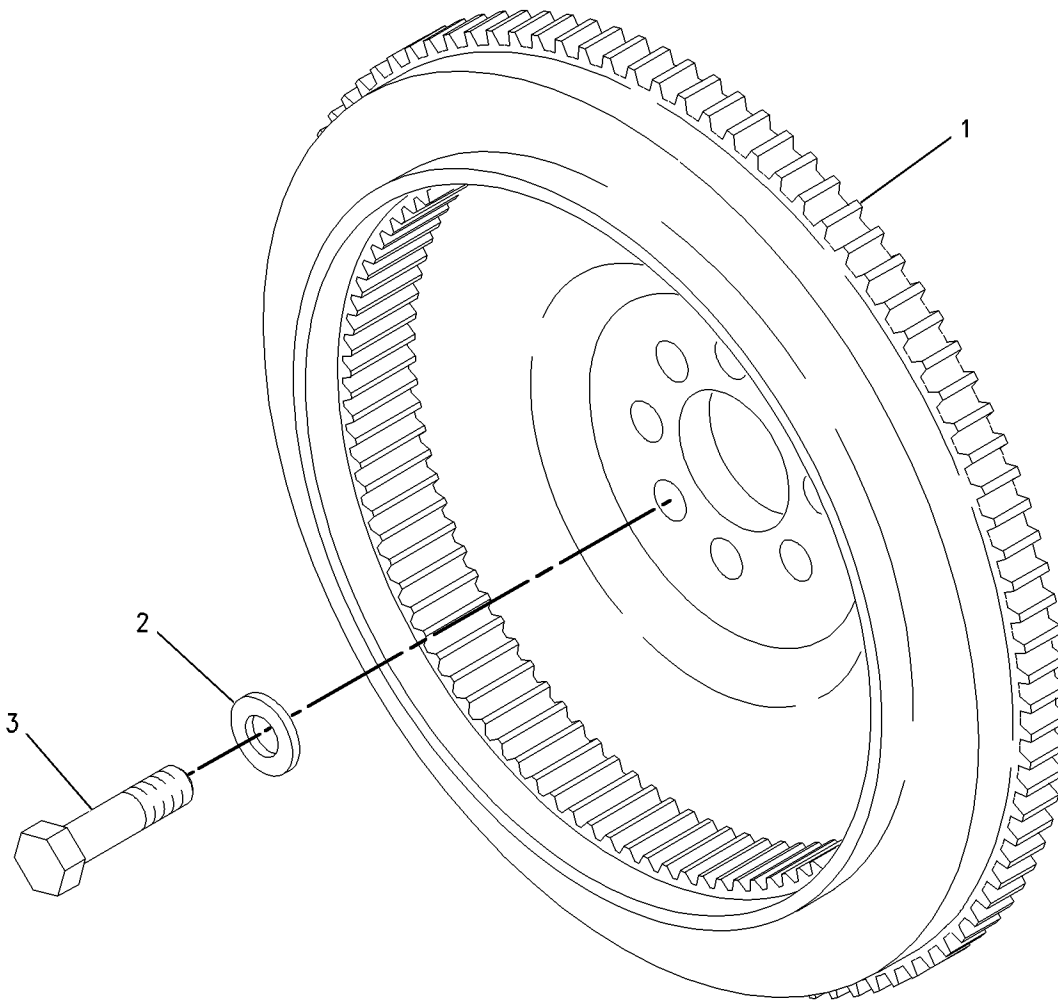
7E-0519 FLYWHEEL GP AN ATTACHMENT

SMCS-1156

i01451626

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	160-8230	1	FLYWHEEL AS						
		1	7W-5095	1	GEAR-FLYWHEEL (134 TEETH)						
	2	1	5P-8245	8	WASHER-HARD (13.5X25.5X3MM THK)						
M	3	1	7X-3344	8	BOLT						

M-METRIC PART



GRAPHIC #1

g00759559

BASIC ENGINE

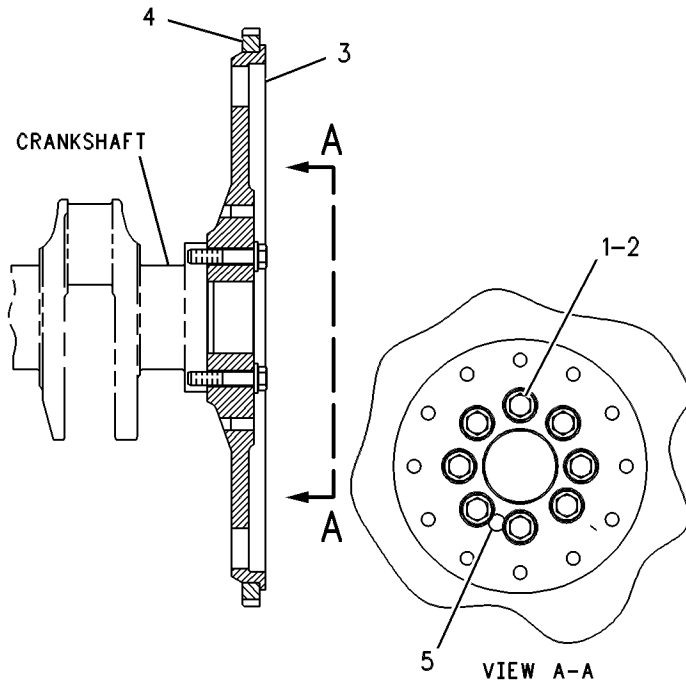
100-6578 FLYWHEEL GP FOR USE WITH SAE#1 FLYWHEEL HOUSING AN ATTACHMENT

SMCS-1156

i00644698

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8245	8	WASHER (3MM THK)						
M	2	1	7X-3343	8	BOLT-LOCKING						
	3	1	140-8056	1	FLYWHEEL AS						
	4	1	6I-2997	1	GEAR (156 TEETH)						
	5	1	3E-3213	1	PIN-SPRING						

M-METRIC PART



GRAPHIC #1

g00268723

BASIC ENGINE

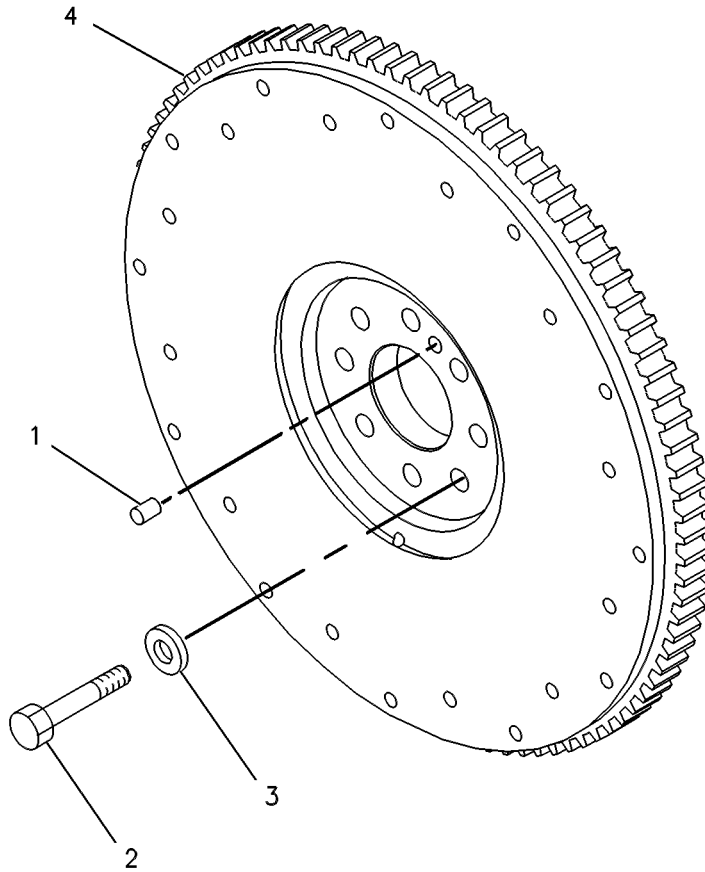
122-8933 FLYWHEEL GP FOR USE WITH SAE #2 FLYWHEEL HOUSING AN ATTACHMENT

SMCS-1156

i00811336

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-3213	1	PIN-SPRING						
M	2	1	7X-3350	8	BOLT-LOCKING (M12X1.75X35 MM)						
	3	1	5P-8245	8	WASHER (3MM THK)						
	4	1	126-5875	1	FLYWHEEL AS						
		1	7W-5095	1	GEAR-FLYWHEEL (134 TEETH)						

M-METRIC PART



GRAPHIC #1

g00256328

BASIC ENGINE

180-0127 FLYWHEEL GP

SAE # 2

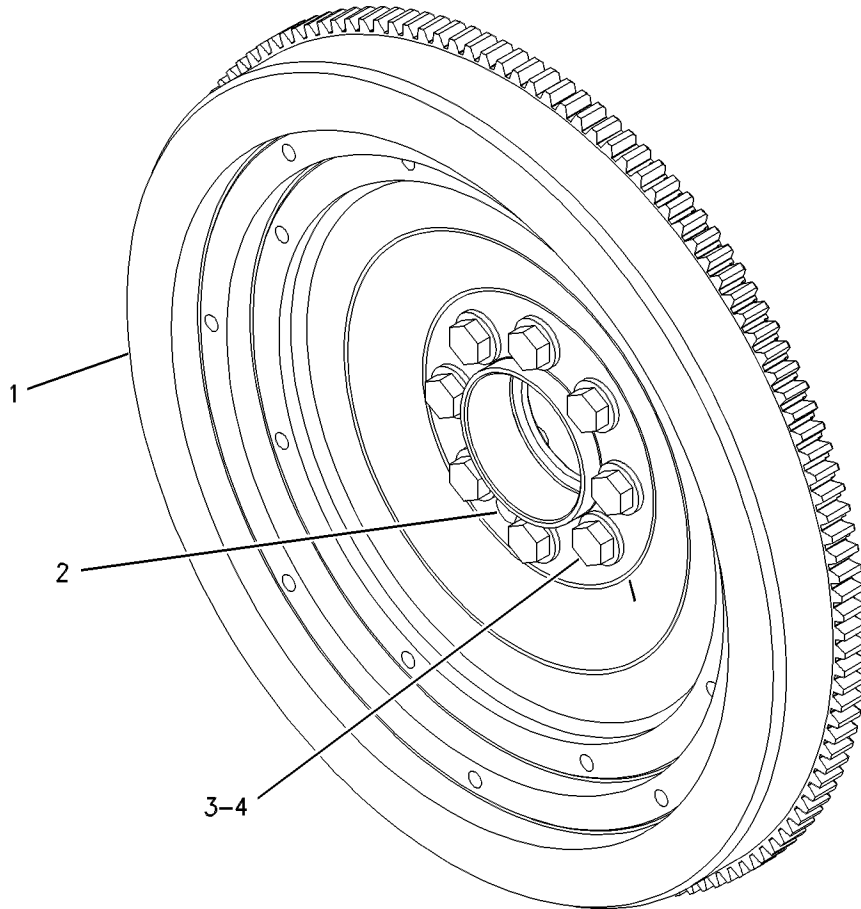
FOR USE WITH 117-5118—PAGE 133
AN ATTACHMENT

SMCS-1156

i01211370

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	160-8195	1	FLYWHEEL AS						
		1	7W-5095	1	GEAR-FLYWHEEL (134 TEETH)						
	2	1	3E-3213	1	PIN-SPRING						
	3	1	5P-8245	8	WASHER-HARD (3MM THK)						
M	4	1	6V-8197	8	BOLT (M12X1.75X40MM)						

M-METRIC PART



GRAPHIC #1

g00647497

BASIC ENGINE

186-5880 FLYWHEEL GP

72MM (2.835 IN) DIAMETER

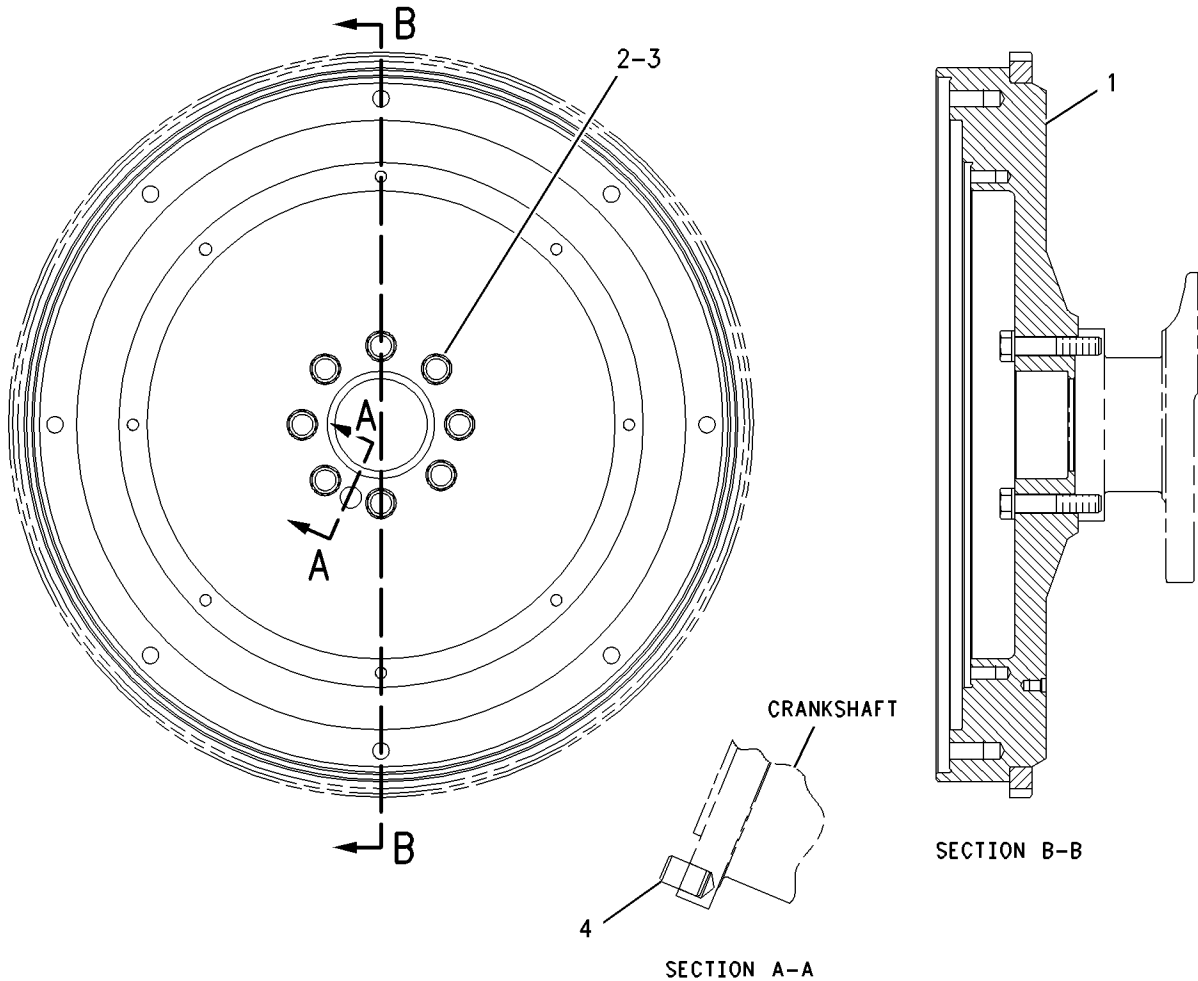
AN ATTACHMENT

SMCS-1156

i01496202

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	202-2381	1	FLYWHEEL AS						
		1	6I-2997	1	GEAR (156 TEETH)						
M	2	1	7X-3343	8	BOLT-LOCKING						
	3	1	5P-7213	8	WASHER-HARD (13.5X20.5X2MM THK)						
	4	1	3E-3213	1	PIN-SPRING						

M-METRIC PART



GRAPHIC #1

g00787137

BASIC ENGINE

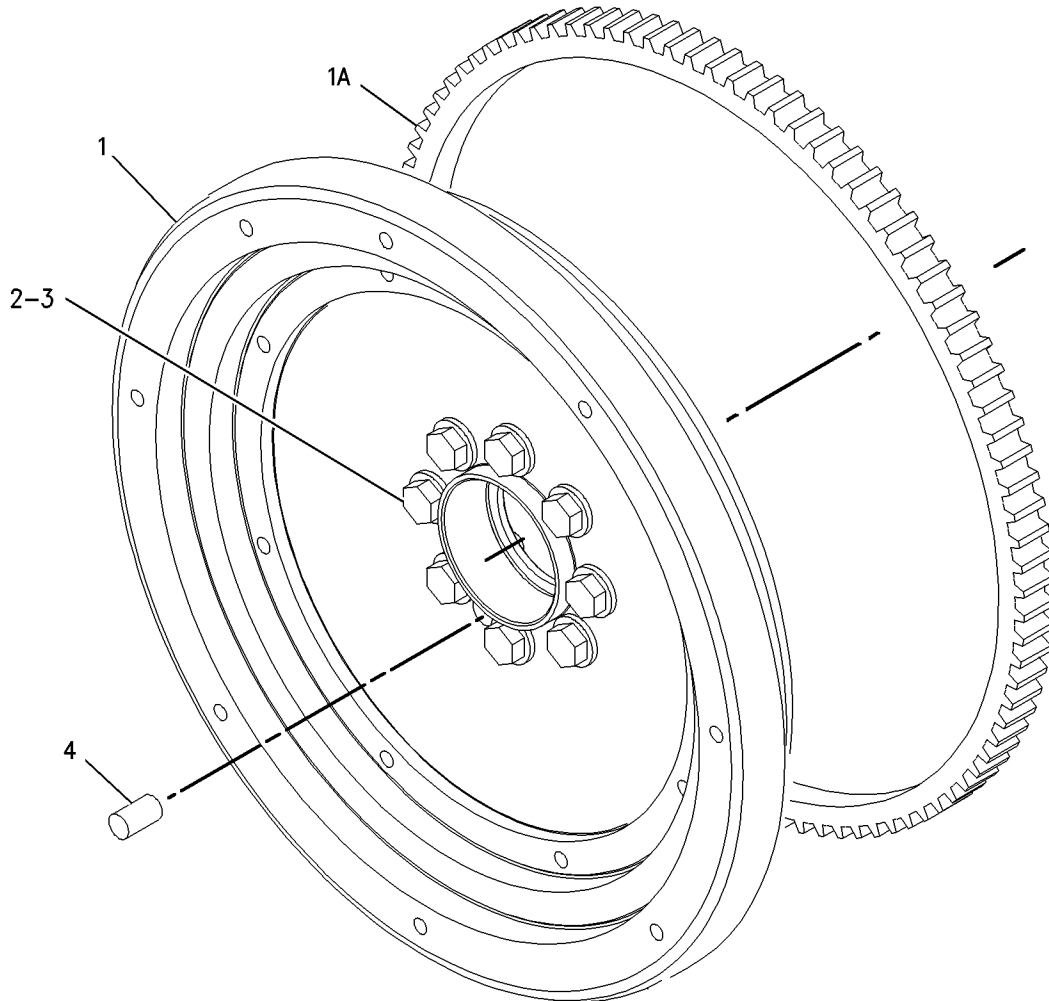
186-5882 FLYWHEEL GP FOR USE WITH NO. 1 FLYWHEEL HOUSING AN ATTACHMENT

SMCS-1156

i01418467

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	186-5881	1	FLYWHEEL AS						
	1A	1	6I-2997	1	GEAR (156 TEETH)						
M	2	1	7X-3343	8	BOLT-LOCKING						
	3	1	5P-7213	8	WASHER-HARD (13.5X20.5X2MM THK)						
	4	1	3E-3213	1	PIN-SPRING						

M-METRIC PART



GRAPHIC #1

g00745871

BASIC ENGINE

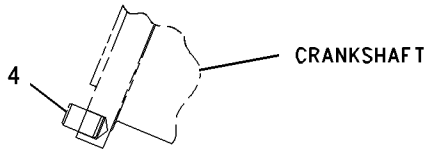
186-5890 FLYWHEEL GP 355.6MM (14 IN) 2 PLATE AUTOMOTIVE CLUTCH AN ATTACHMENT

SMCS-1156

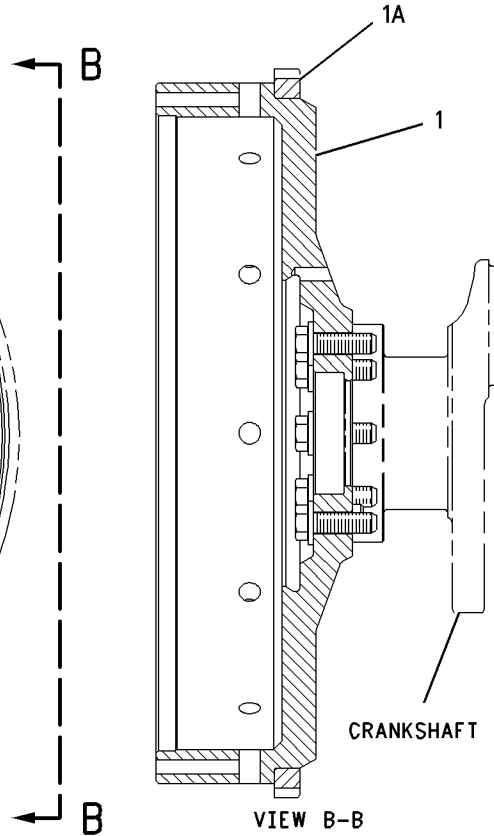
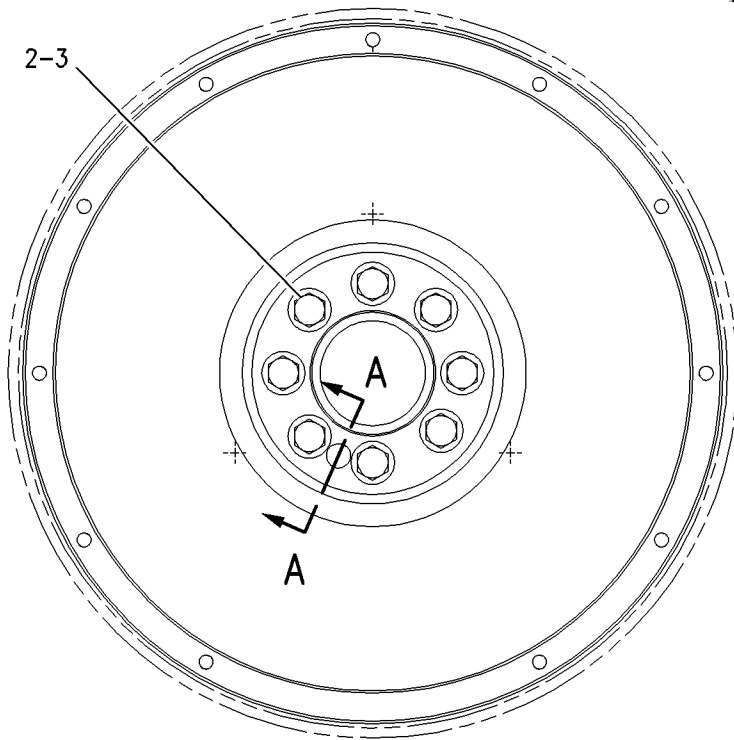
i01570647

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	202-2383	1	FLYWHEEL AS						
	1A	1	163-1387	1	GEAR-FLYWHEEL (134 TEETH)						
M	2	1	6V-8197	8	BOLT (M12X1.75X40MM)						
	3	1	5P-8245	8	WASHER-HARD (13.5X25.5X3MM THK)						
	4	1	3E-3213	1	PIN-SPRING						

M-METRIC PART



SECTION A-A



GRAPHIC #1

g00787718

BASIC ENGINE

186-5892 FLYWHEEL GP

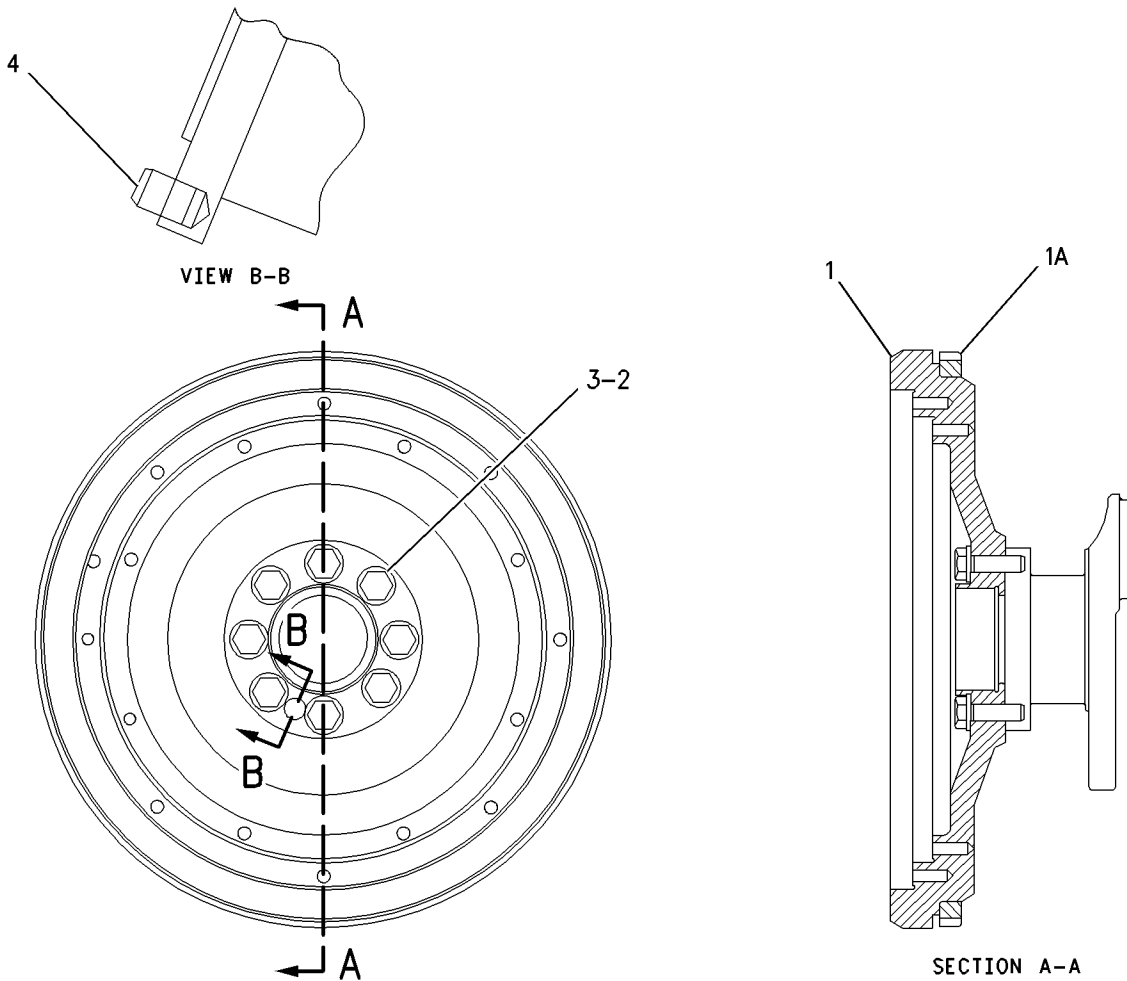
FITS 10 INCH OR 11.5 INCH OVER THE CENTER CLUTCH
FOR USE WITH SAE NO. 3 FLYWHEEL HOUSING. CANNOT BE USED WITH FLYWHEEL STUB SHAFT
AN ATTACHMENT

SMCS-1156

i01461265

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	202-2382	1	FLYWHEEL AS						
	1A	1	1W-1064	1	GEAR-FLYWHEEL RING (126 TEETH)						
M	2	1	6V-8197	8	BOLT (M12X1.75X40MM)						
	3	1	5P-8245	8	WASHER-HARD (13.5X25.5X3MM THK)						
	4	1	3E-3213	1	PIN-SPRING						

M-METRIC PART



GRAPHIC #1

g00764000

BASIC ENGINE

196-8549 FLYWHEEL GP

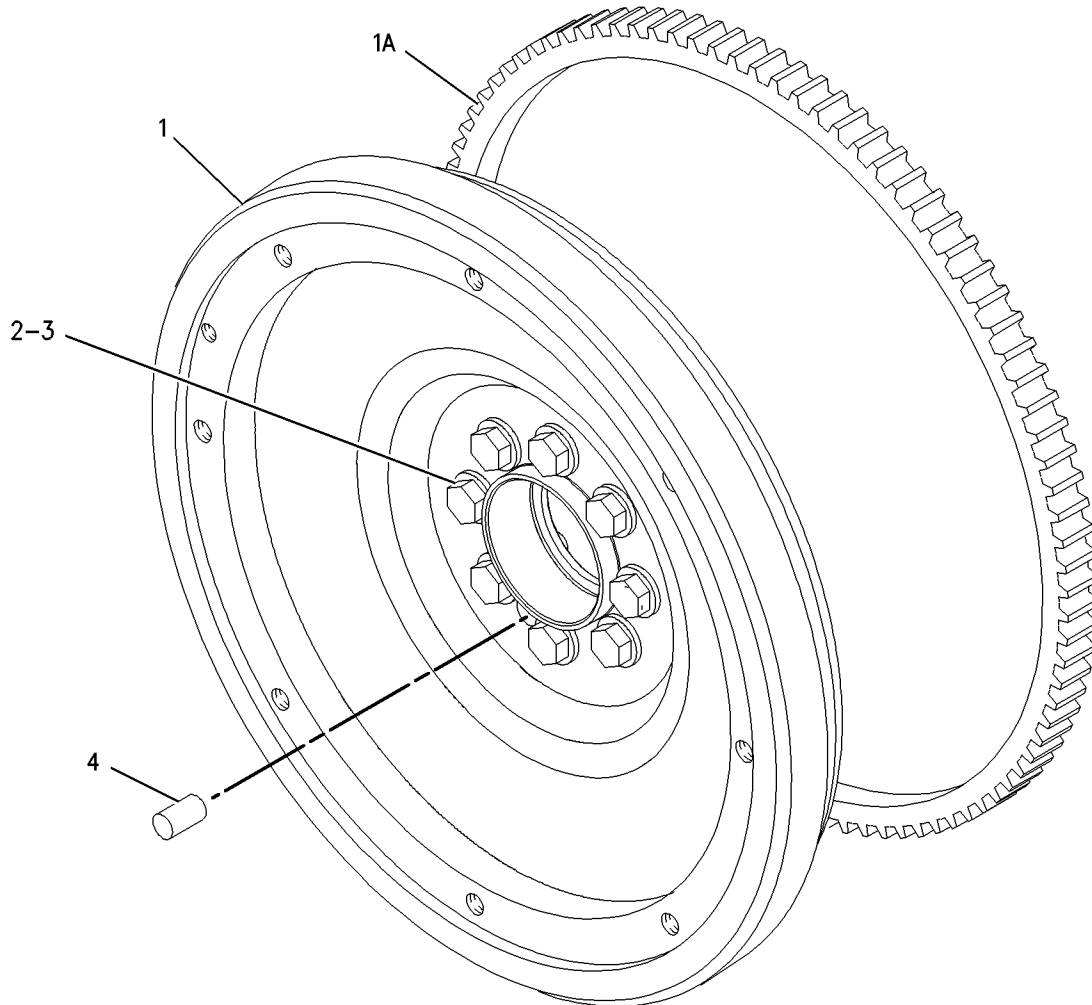
FOR USE WITH NO. 3 FLYWHEEL HOUSING, 11.5 INCH OVER THE CENTER CLUTCH
AN ATTACHMENT

SMCS-1156

i01426446

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-8550	1	FLYWHEEL AS						
	1A	1	1W-1064	1	GEAR-FLYWHEEL RING (126 TEETH)						
M	2	1	6V-8197	8	BOLT (M12X1.75X40MM)						
	3	1	5P-8245	8	WASHER-HARD (13.5X25.5X3MM THK)						
	4	1	3E-3213	1	PIN-SPRING						

M-METRIC PART



GRAPHIC #1

g00747828

BASIC ENGINE

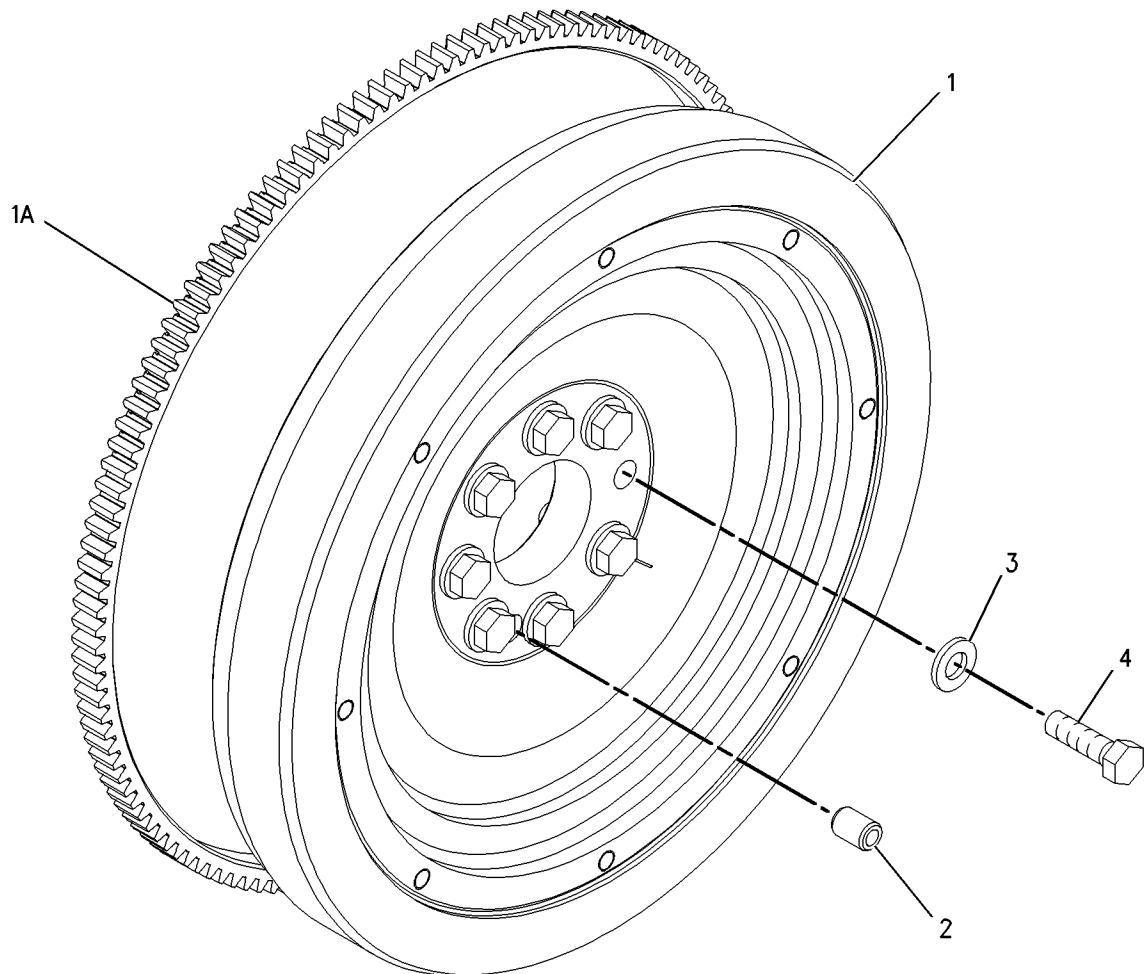
201-4094 FLYWHEEL GP FOR USE WITH NO. 3 FLYWHEEL HOUSING ALSO AN ATTACHMENT

SMCS-1156

i01448364

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	160-8160	1	FLYWHEEL AS						
	1A	1	163-1387	1	GEAR-FLYWHEEL (134 TEETH)						
	2	1	3E-3213	1	PIN-SPRING						
	3	1	5P-8245	8	WASHER-HARD (13.5X25.5X3MM THK)						
M	4	1	6V-8197	8	BOLT (M12X1.75X40MM)						

M-METRIC PART



GRAPHIC #1

g00759042

BASIC ENGINE

101-4540 GEAR GP - FRONT

S/N: BEJ1-198

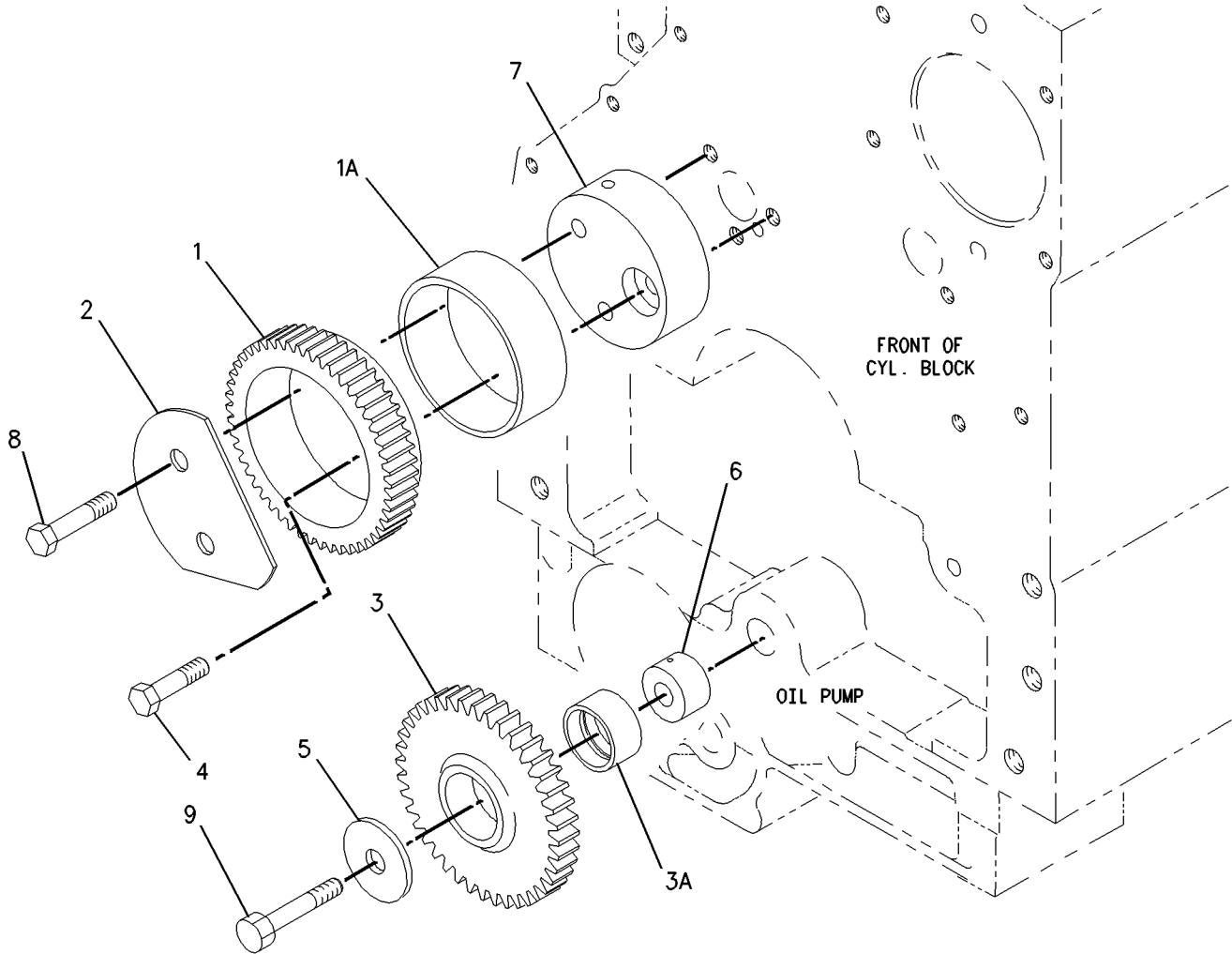
TYPE 1

SMCS - 1206

i01306548

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-8476	1	GEAR AS-IDLER (50 TEETH)						
	1A	1	2W-7566	1	BEARING-SLEEVE						
	2	1	101-3208	1	PLATE-RETAINING						
	3	1	7W-9740	1	GEAR AS-IDLER (43 TEETH)						
	3A	1	7W-9930	1	BEARING-SLEEVE						
M	4	1	6V-3822	1	BOLT (M10X1.5X35MM)						
	5	1	7W-9738	1	WASHER						
	6	1	7W-9737	1	SHAFT-OIL PUMP						
	7	1	101-3207	1	SHAFT-CAM IDLER						
M	8	1	6V-5843	2	BOLT (M10X1.50X45MM)						
M	9	1	9X-2305	1	BOLT-LOCKING						

M-METRIC PART



GRAPHIC #1

g00692130

BASIC ENGINE

101-4540 GEAR GP-FRONT

S/N: BEJ1-198

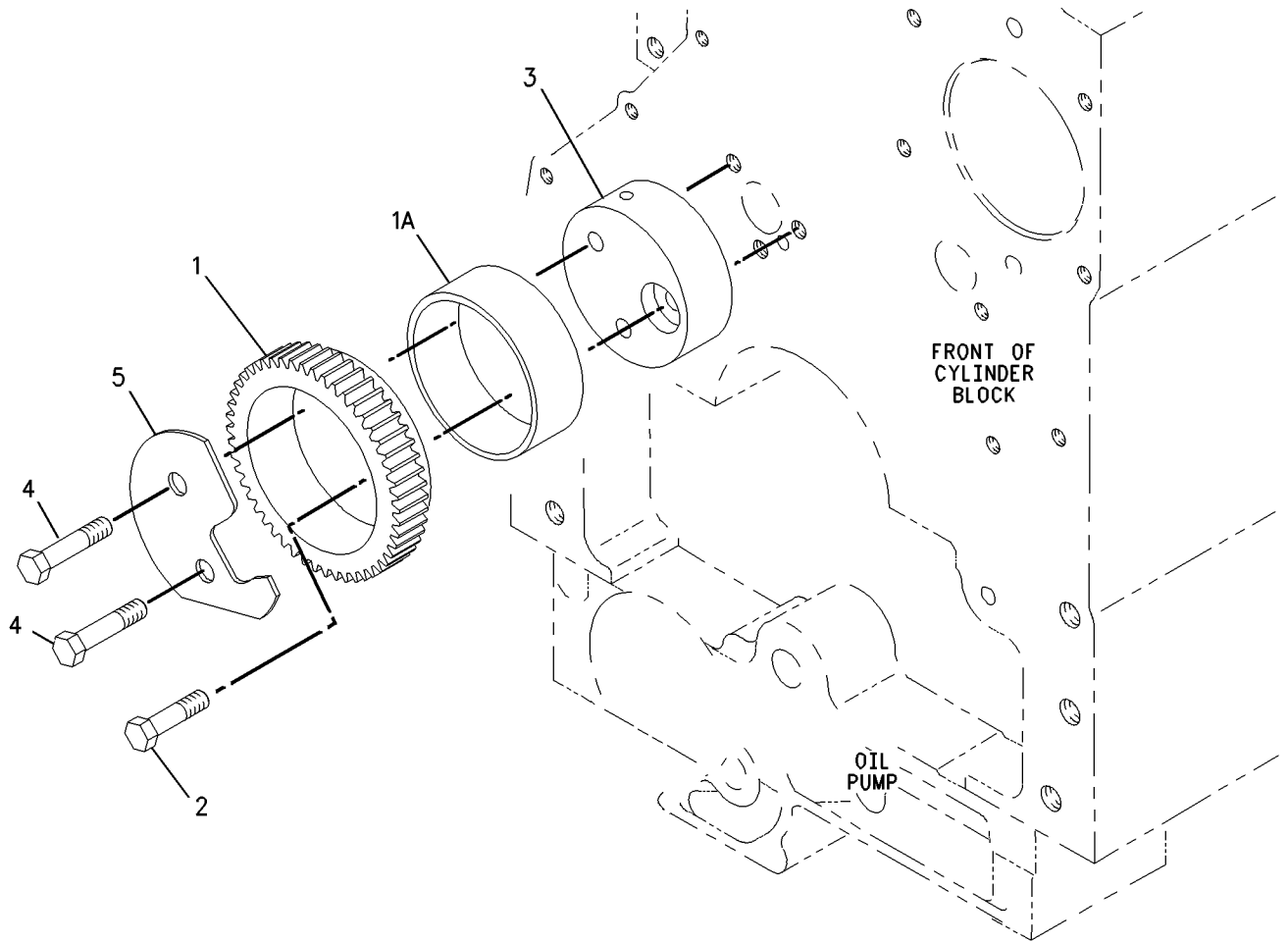
TYPE 2

SMCS-1206

i01579604

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-8476	1	GEAR AS-IDLER (50 TEETH)						
	1A	1	2W-7566	1	BEARING-SLEEVE						
M	2	1	6V-3822	1	BOLT (M10X1.5X35MM)						
	3	1	101-3207	1	SHAFT-CAM IDLER						
M	4	1	6V-5843	2	BOLT (M10X1.50X45MM)						
	5	1	101-3208	1	PLATE-RETAINING						

M-METRIC PART



GRAPHIC #1

g00820242

BASIC ENGINE

200-4496 GEAR GP - FRONT

S/N: BEJ199-UP

TYPE 1

SMCS - 1206

i01622078

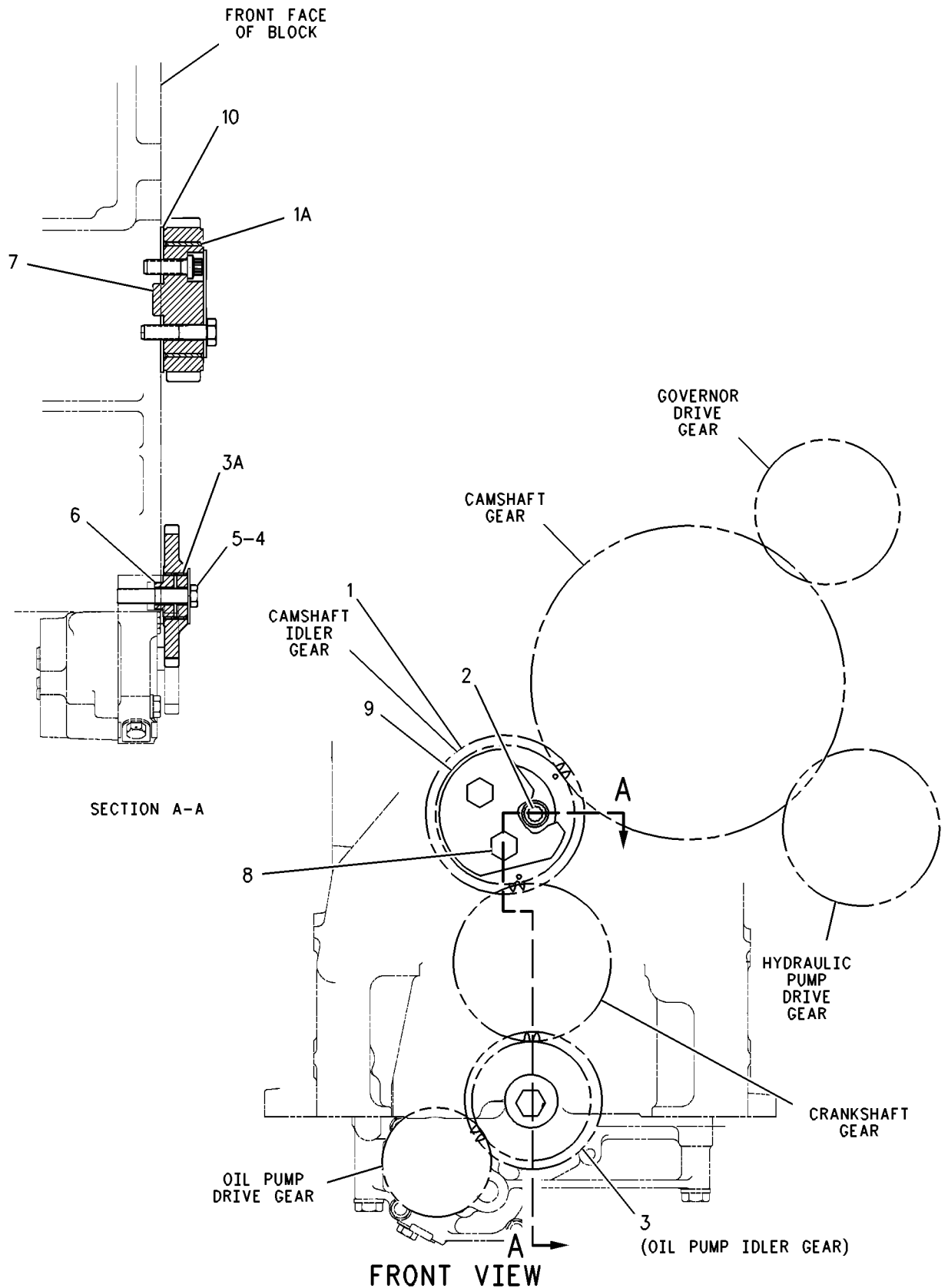
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-4134	1	GEAR AS (50 TEETH)						
	1A	1	115-4072	1	BEARING						
M	2	1	136-4183	1	BOLT-12 POINT HEAD (M10X1.5X30MM)						
	3	1	7W-9740	1	GEAR AS- IDLER (43 TEETH)						
	3A	1	7W-9930	1	BEARING-SLEEVE						
M	4	1	9X-2305	1	BOLT-LOCKING (M10X1.5 THD)						
	5	1	7W-9738	1	WASHER (10.5X38X1.6MM THK)						
	6	1	7W-9737	1	SHAFT-OIL PUMP						
	7	1	200-4495	1	SHAFT- IDLER						
M	8	1	6V-5843	2	BOLT (M10X1.50X45MM)						
	9	1	115-4219	1	PLATE-RETAINING						
	10	1	113-6069	1	PLATE-THRUST						

M-METRIC PART

BASIC ENGINE

200-4496 GEAR GP - FRONT (contd.)

i01622078



GRAPHIC #1

g00839342

BASIC ENGINE

200-4496 GEAR GP - FRONT

S/N: BEJ199-UP

TYPE 2

SMCS - 1206

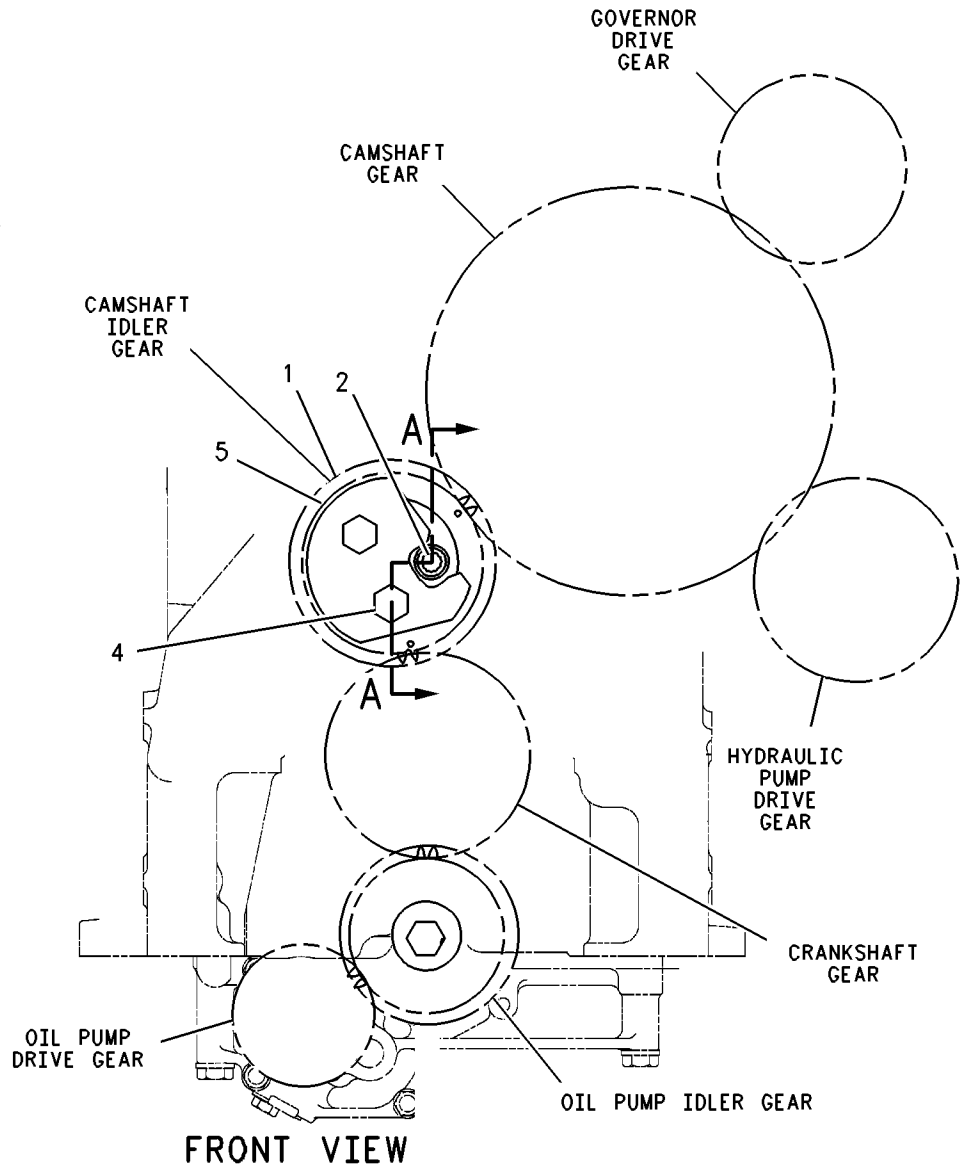
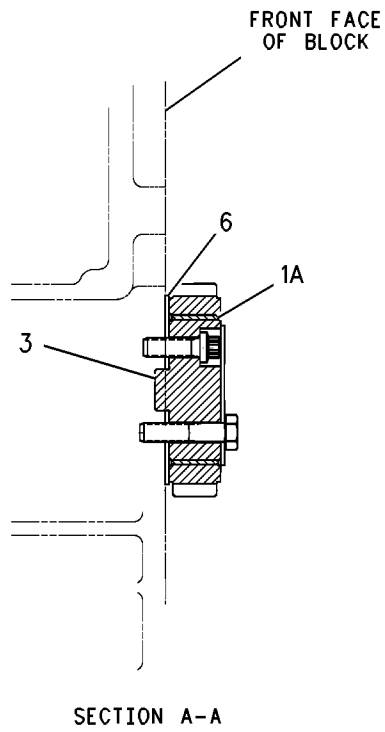
i01622073

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-4134	1	GEAR AS (50 TEETH)						
	1A	1	115-4072	1	BEARING						
M	2	1	136-4183	1	BOLT - 12 POINT HEAD (M10X1.5X30MM)						
	3	1	200-4495	1	SHAFT - IDLER						
M	4	1	6V-5843	2	BOLT (M10X1.50X45MM)						
	5	1	115-4219	1	PLATE - RETAINING						
	6	1	113-6069	1	PLATE - THRUST						
M - METRIC PART											

BASIC ENGINE

200-4496 GEAR GP - FRONT (contd.)

i01622073



GRAPHIC #1

g00839339

BASIC ENGINE

100-6570 HOUSING GP-FLYWHEEL

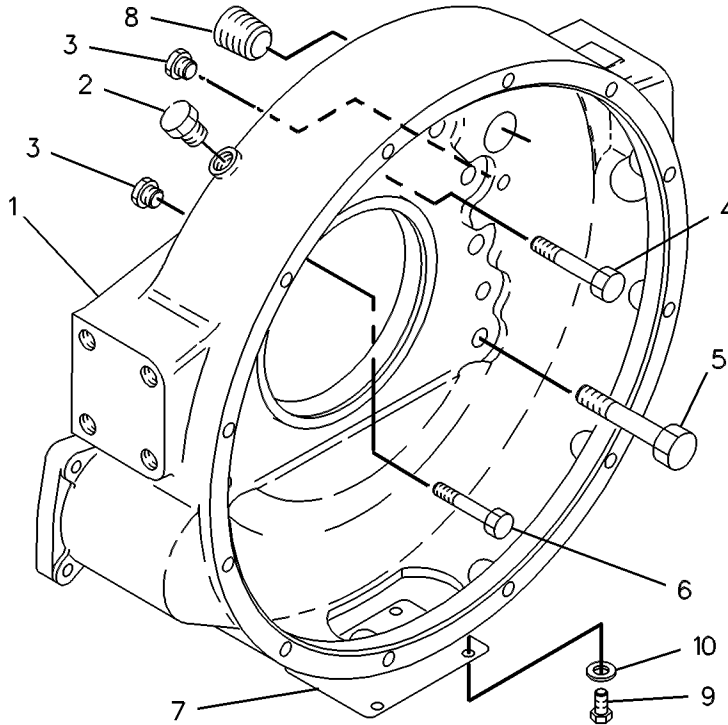
FOR USE WITH SAE NO. 2 VERTICAL HOUSING INSTALLATION WITH LH STARTER
ALSO AN ATTACHMENT

SMCS-1157

i01219316

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	126-5874	1	HOUSING-FLYWHEEL						
B		1	1U-8846		SEALANT						
	2	1	9S-4185	1	PLUG-O-RING (3/4-16 THD)						
	3	1	9S-4182	2	PLUG (7/16-20 THD)						
M	4	1	8T-4196	2	BOLT (M10X1.50X35MM)						
M	5	1	9X-6609	10	BOLT-LOCKING						
M	6	1	8T-7547	1	BOLT (M8X1.25X30MM)						
	7	1	9L-7859	1	COVER						
	8	1	172-6300	1	PLUG						
M	9	1	7X-2536	4	BOLT (M8X1.25X14MM)						
	10	1	8T-4224	4	WASHER-HARD (2MM THK)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00254446

BASIC ENGINE

117-5118 HOUSING GP-FLYWHEEL

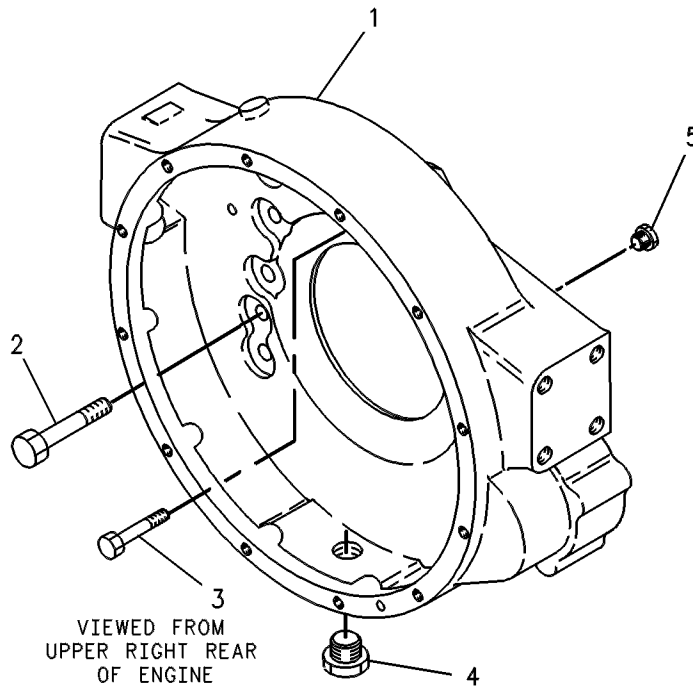
SAE NO. 2 HOUSING FOR FRONT MOUNTED STARTING MOTOR
CANNOT BE USED WITH 117-5119—PAGE 134
AN ATTACHMENT

SMCS-1157

i00638196

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-6550	1	HOUSING-FLYWHEEL						
M	2	1	8T-0226	10	BOLT (M14X2X45 MM)						
M	3	1	6V-5842	2	BOLT (M10X1.50X40MM)						
	4	1	9S-4183	1	PLUG (1 1/16-12 THD)						
	5	1	9S-4182	1	PLUG (7/16-20 THD)						

M-METRIC PART



GRAPHIC #1

g00243876

BASIC ENGINE

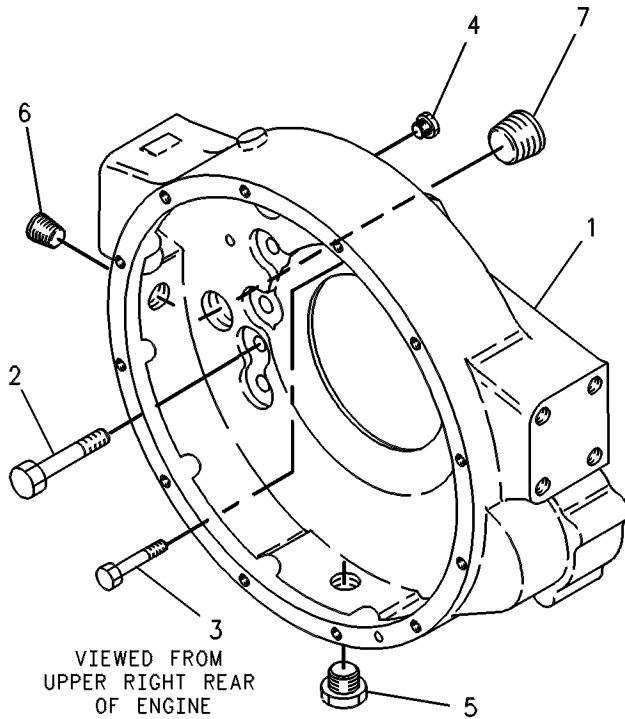
117-5119 HOUSING GP-FLYWHEEL SAE NO. 3 HOUSING FOR FORWARD MOUNTED STARTING MOTOR AN ATTACHMENT

SMCS-1157

i00638200

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-4583	1	HOUSING-FLYWHEEL						
M	2	1	8T-0226	10	BOLT (M14X2X45 MM)						
M	3	1	6V-5842	2	BOLT (M10X1.50X40MM)						
	4	1	9S-4182	2	PLUG (7/16-20 THD)						
	5	1	9S-4183	1	PLUG (1 1/16-12 THD)						
	6	1	7X-7731	1	PLUG-PIPE (3/4-14 NPTF THD)						
	7	1	7X-7730	1	PLUG-PIPE						

M-METRIC PART



GRAPHIC #1

g00243881

BASIC ENGINE

122-8934 HOUSING GP-FLYWHEEL

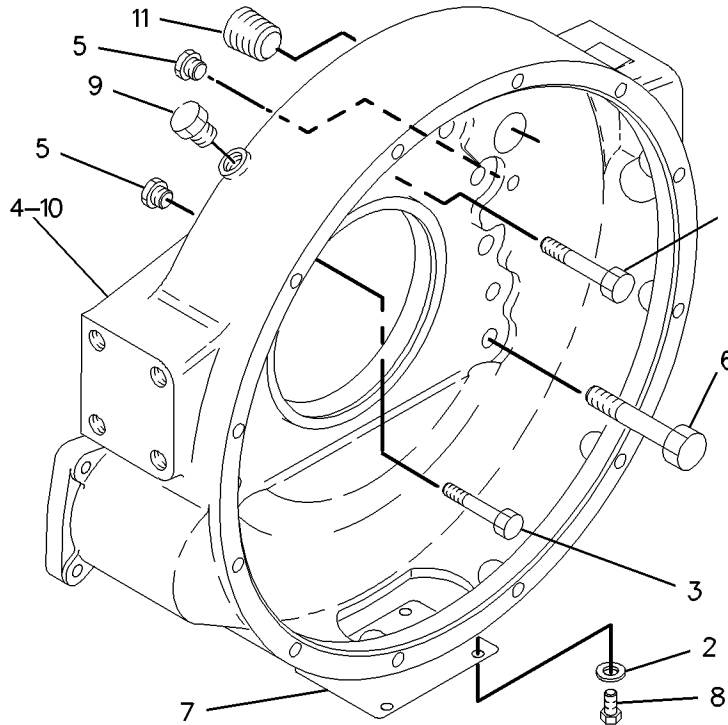
PROVIDES VERTICAL PAD SAE #2 HOUSING
AN ATTACHMENT

SMCS-1157

i01261356

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4196	2	BOLT (M10X1.50X35MM)						
	2	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	3	1	8T-7547	1	BOLT (M8X1.25X30MM)						
	4	1	126-5874	1	HOUSING-FLYWHEEL						
	5	1	9S-4182	2	PLUG (7/16-20 THD)						
M	6	1	9X-6609	10	BOLT-LOCKING						
	7	1	160-5123	1	COVER						
M	8	1	7X-2536	4	BOLT (M8X1.25X14MM)						
	9	1	9S-4185	1	PLUG-O-RING (3/4-16 THD)						
B	10	1	1U-8846		SEALANT						
	11	1	172-6300	1	PLUG						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00670868

BASIC ENGINE

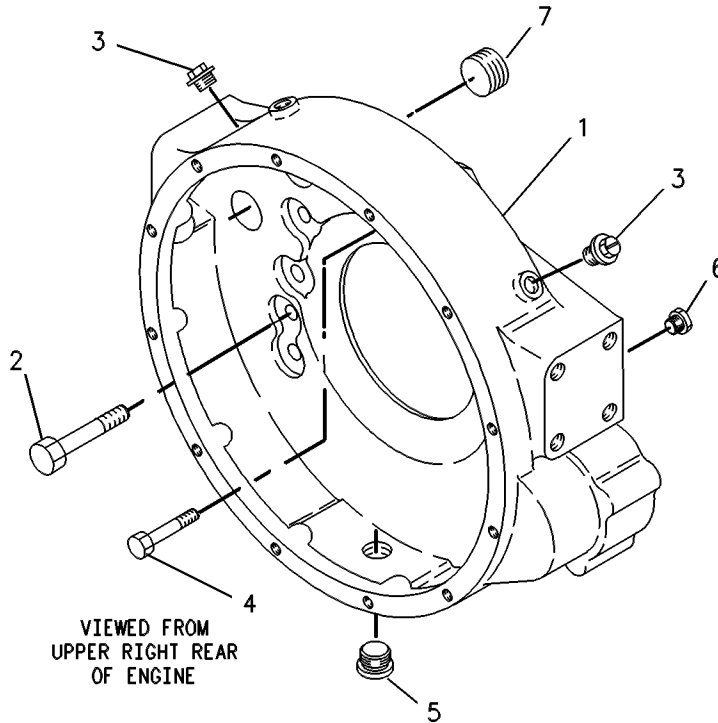
132-2104 HOUSING GP-FLYWHEEL FOR USE WITH 132-3844-PAGE 26, SAE NO. 1 FLYWHEEL HOUSING AN ATTACHMENT

SMCS-1157

i00639917

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	126-5900	1	HOUSING-FLYWHEEL						
M	2	1	8T-0226	10	BOLT (M14X2X45 MM)						
	3	1	2P-1294	2	PLUG-SEAL						
M	4	1	6V-5842	2	BOLT (M10X1.50X40MM)						
	5	1	9S-8008	1	PLUG-O-RING (1 1/16-12 THD)						
	6	1	9S-4182	1	PLUG (7/16-20 THD)						
	7	1	7X-7730	1	PLUG-PIPE						

M-METRIC PART



GRAPHIC #1

g00258601

BASIC ENGINE

132-2105 HOUSING GP-FLYWHEEL

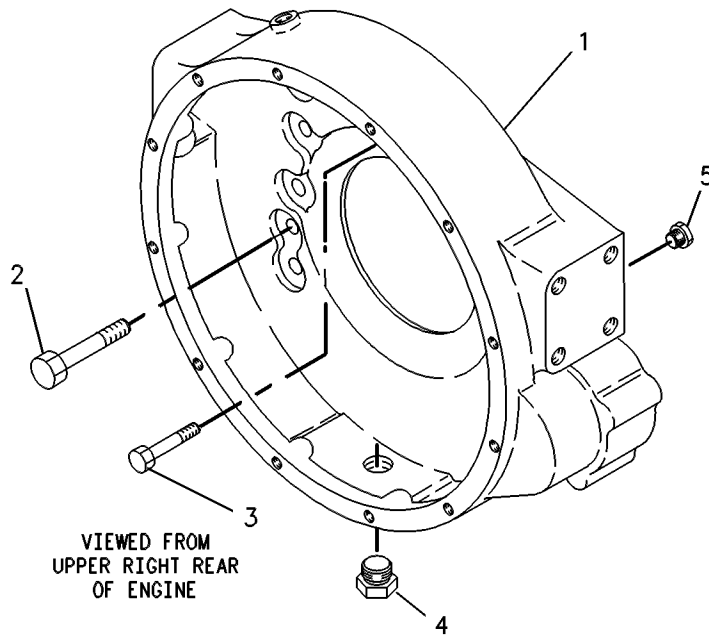
SAE NO.2
AN ATTACHMENT

SMCS-1157

i00640094

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-6551	1	HOUSING-FLYWHEEL						
M	2	1	8T-0226	10	BOLT (M14X2X45 MM)						
M	3	1	6V-5842	2	BOLT (M10X1.50X40MM)						
	4	1	9S-4183	1	PLUG (1 1/16-12 THD)						
	5	1	9S-4182	1	PLUG (7/16-20 THD)						

M-METRIC PART



GRAPHIC #1

g00258566

BASIC ENGINE

132-2106 HOUSING GP-FLYWHEEL

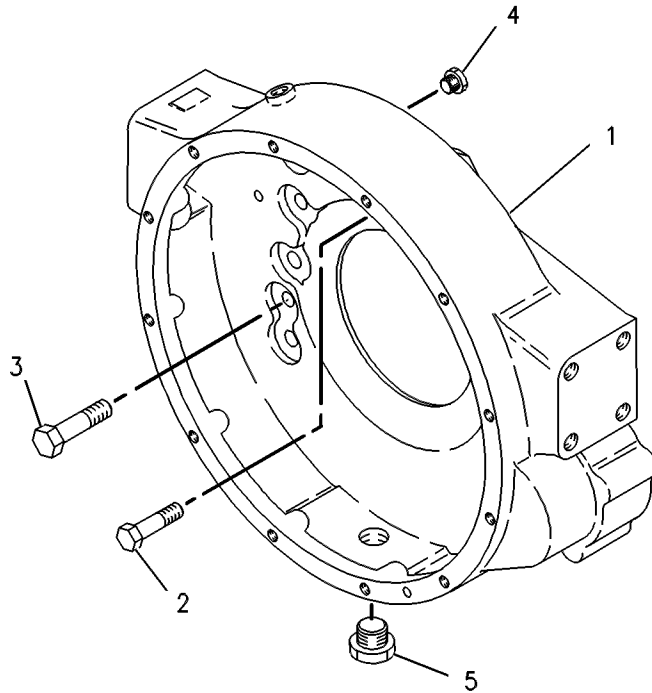
PROVIDES STARTING MOTOR MOUNTING FLANGE ON RH SIDE
FOR USE WITH NO. 3 FLYWHEEL HOUSING
AN ATTACHMENT

SMCS-1157

i00639943

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-5233	1	HOUSING-FLYWHEEL						
M	2	1	6V-5842	2	BOLT (M10X1.50X40MM)						
M	3	1	8T-0226	10	BOLT (M14X2X45 MM)						
	4	1	9S-4182	1	PLUG (7/16-20 THD)						
	5	1	9S-4183	1	PLUG (1 1/16-12 THD)						

M-METRIC PART



GRAPHIC #1

g00258572

BASIC ENGINE

132-2107 HOUSING GP-FLYWHEEL

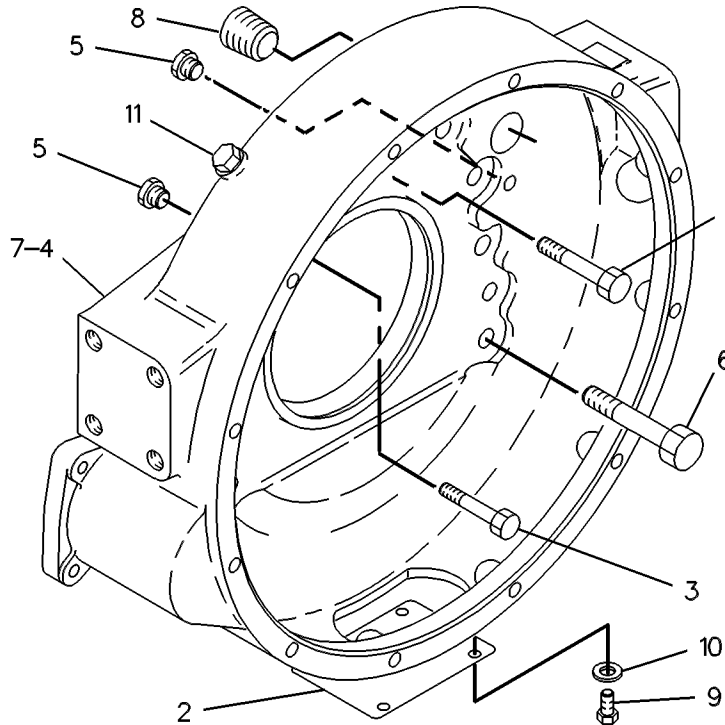
**SAE NO.2. VERTICAL HOUSING INSTALLATION WITH LEFT HAND STARTER
FOR USE WITH 7E-6306-PAGE 479
AN ATTACHMENT**

SMCS-1157

i01240125

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4196	2	BOLT (M10X1.50X35MM)						
	2	1	160-5123	1	COVER						
M	3	1	8T-7547	1	BOLT (M8X1.25X30MM)						
	4	1	126-5874	1	HOUSING-FLYWHEEL						
	5	1	9S-4182	2	PLUG (7/16-20 THD)						
M	6	1	9X-6609	10	BOLT-LOCKING						
B	7	1	1U-8846		SEALANT						
	8	1	172-6300	1	PLUG						
M	9	1	7X-2536	4	BOLT (M8X1.25X14MM)						
	10	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
	11	1	9S-4185	1	PLUG-O-RING (3/4-16 THD)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00282948

BASIC ENGINE

132-2108 HOUSING GP-FLYWHEEL

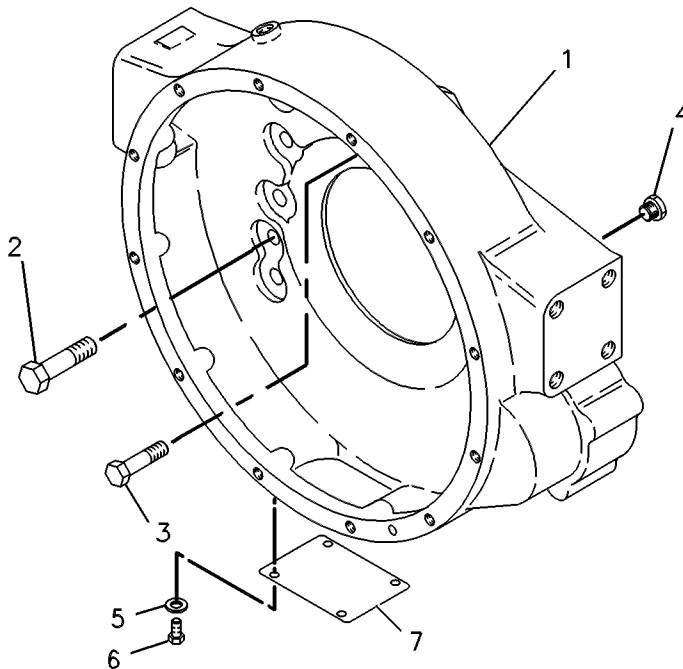
SAE NO.2
AN ATTACHMENT

SMCS-1157

i01240192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	119-2920	1	HOUSING-FLYWHEEL						
M	2	1	8T-0226	10	BOLT (M14X2X45 MM)						
M	3	1	6V-5842	2	BOLT (M10X1.50X40MM)						
	4	1	9S-4182	1	PLUG (7/16-20 THD)						
M	5	1	7X-2536	4	BOLT (M8X1.25X14MM)						
	6	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
	7	1	160-5123	1	COVER						

M-METRIC PART



GRAPHIC #1

g00258596

BASIC ENGINE

197-5210 HOUSING GP-FLYWHEEL

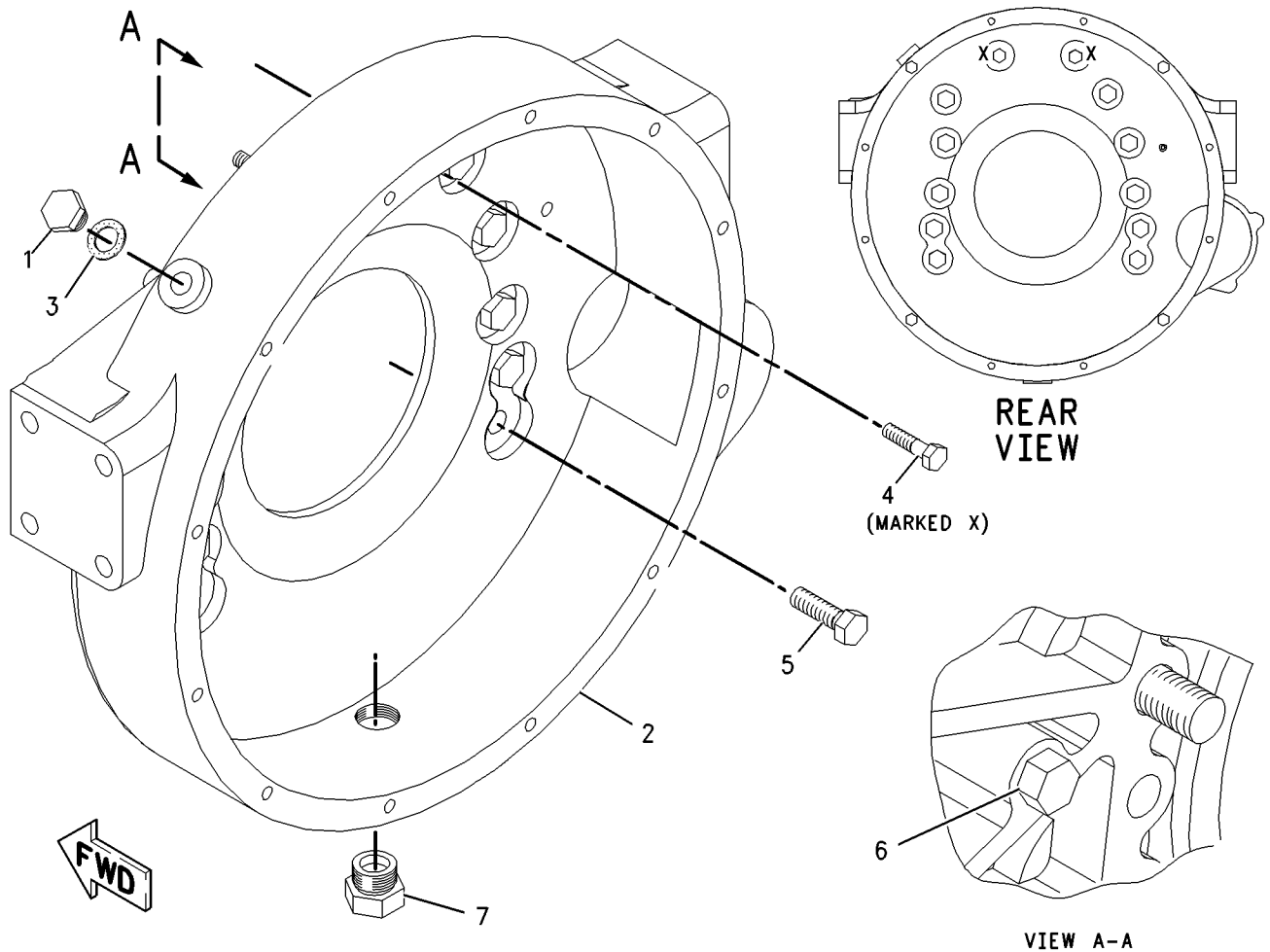
AN ATTACHMENT

SMCS-1157

i01613208

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5F-0304	1	PLUG-DRAIN						
	2	1	100-6551	1	HOUSING-FLYWHEEL						
	3	1	2A-1162	1	GASKET						
M	4	1	6V-5842	2	BOLT (M10X1.50X40MM)						
M	5	1	8T-0226	1	BOLT (M14X2X45 MM)						
	6	1	9S-4182	1	PLUG-O-RING						
	7	1	9S-4183	1	PLUG						

M-METRIC PART



GRAPHIC #1

g00835913

BASIC ENGINE

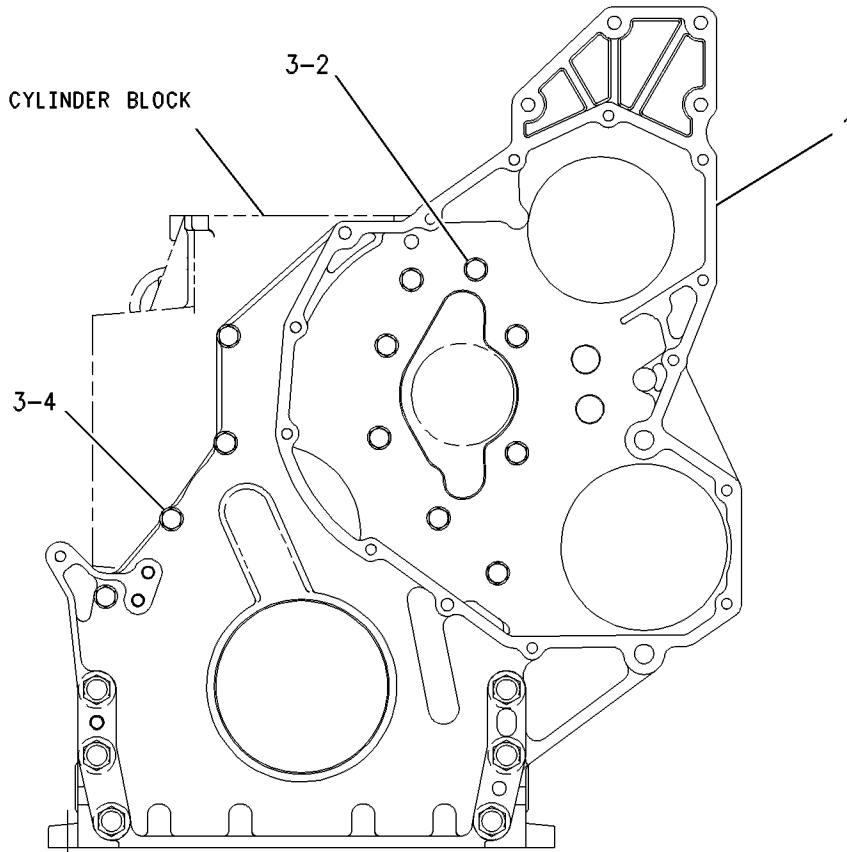
133-5055 HOUSING GP-FRONT

SMCS-1151, 1162

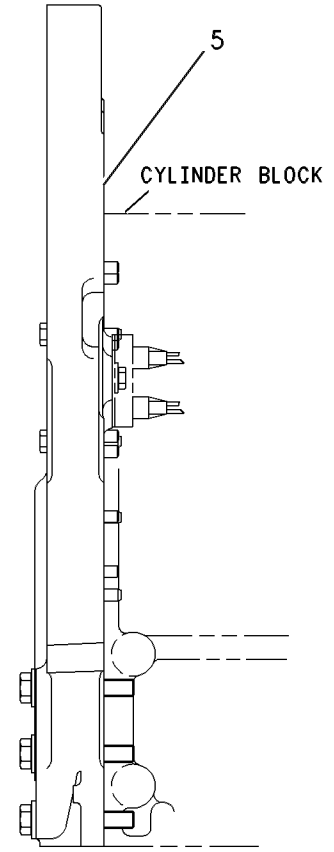
i01359133

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	128-3883	1	HOUSING-FRONT						
M	2	1	6V-5217	8	BOLT (M8X1.25X20MM)						
	3	1	9M-1974	12	WASHER-HARD (2MM THK)						
M	4	1	6V-3918	4	BOLT (M8X1.25X50MM)						
B	5	1	1U-8846		SEALANT						

B-USE AS REQUIRED
M-METRIC PART



FRONT VIEW



LEFT SIDE VIEW

GRAPHIC #1

g00285827

BASIC ENGINE

120-6661 IDLER GP

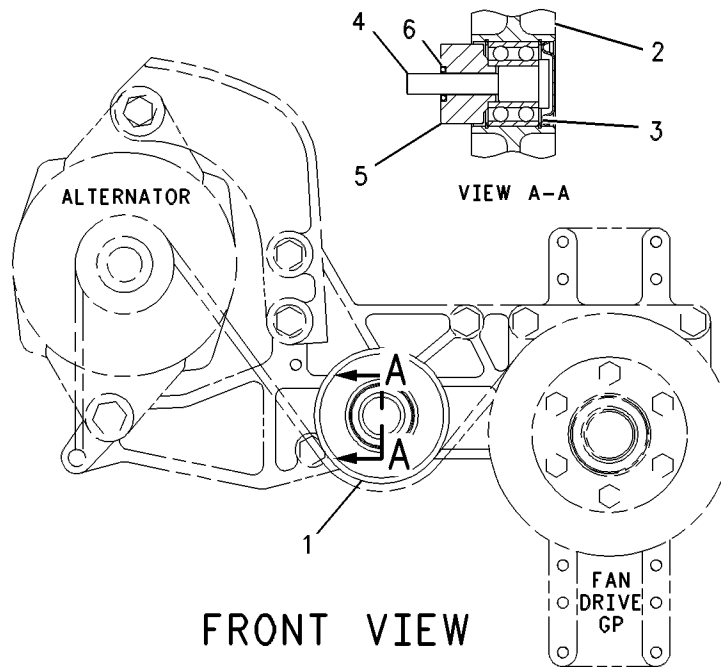
FOR USE WITH ENGINES EQUIPPED WITH ADJUSTABLE FAN BRACKET, 142-7107--PAGE 156,
143-7018--PAGE 190
AN ATTACHMENT

SMCS-1206

i00992554

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	144-5612	1	IDLER AS						
	2	1	144-5611	1	PULLEY AS-IDLER						
	3	1	145-2901	1	COVER-DUST						
M	4	1	144-8122	1	BOLT-SPECIAL (M10X1.5 THD)						
	5	1	144-8123	1	SPACER						
	6	1	6V-9027	1	SEAL-O-RING (8.92MM ID)						

M-METRIC PART



GRAPHIC #1

g00527023

BASIC ENGINE

153-9719 IDLER GP

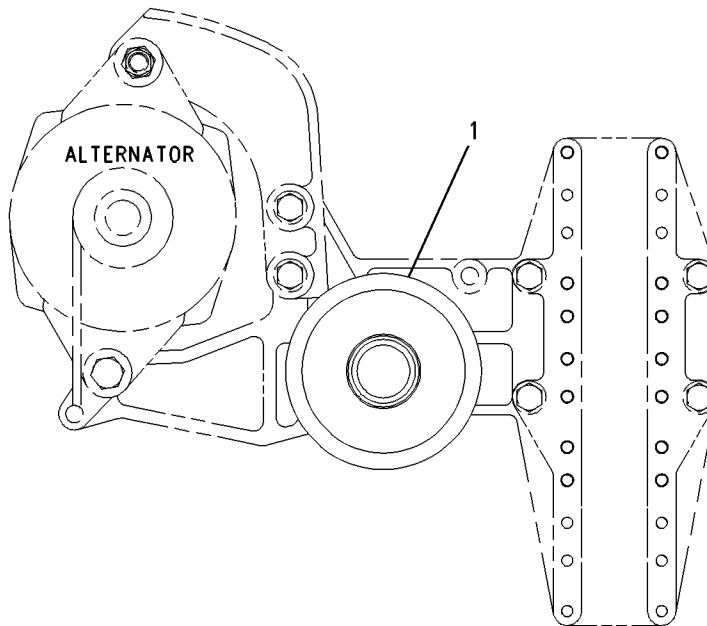
FOR USE WITH REMOTE MOUNTED FAN, 142-7107-PAGE 156. CANNOT BE USED WITH FAN PULLEY AN ATTACHMENT

SMCS-1206

i01457189

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	151-0862	1	PULLEY AS-IDLER						
		1	6V-9027	1	SEAL-O-RING						
		1	124-7792	1	PULLEY AS-IDLER						
M		1	144-8122	1	BOLT-SPECIAL (M10 X 1.5 X 65MM)						
		1	144-8123	1	SPACER						
		1	145-2901	1	COVER-DUST						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

g00373178

BASIC ENGINE

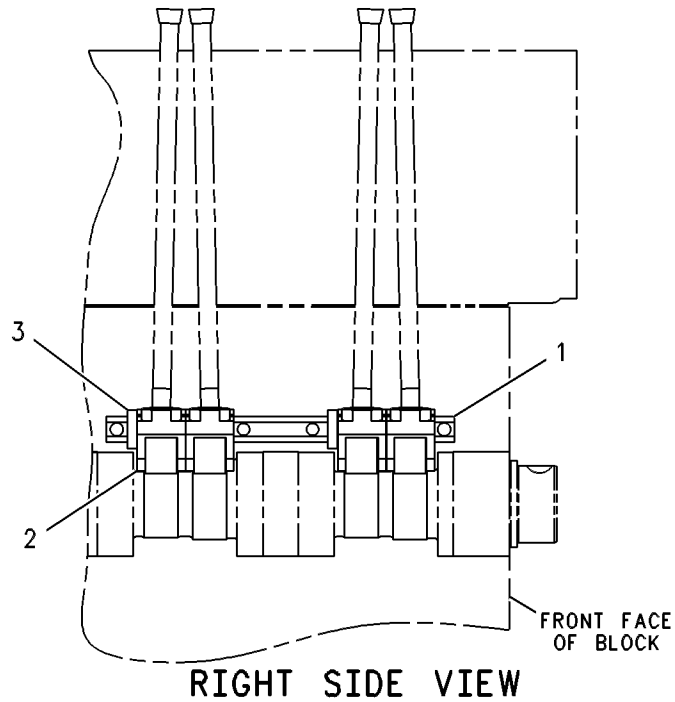
139-4081 LIFTER GP-VALVE

PART OF 135-2969 VALVE MECHANISM GP

SMCS-1209

i00827973

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	139-9476	1	SHAFT AS-LIFTER						
		1	2D-6642	2	BALL						
	2	1	7E-6794	4	ARM AS-INJECTOR						
	3	1	139-4084	2	SPACER-FOLLOWER						



GRAPHIC #1

g00288708

BASIC ENGINE

142-8100 LIFTING GP-ENGINE

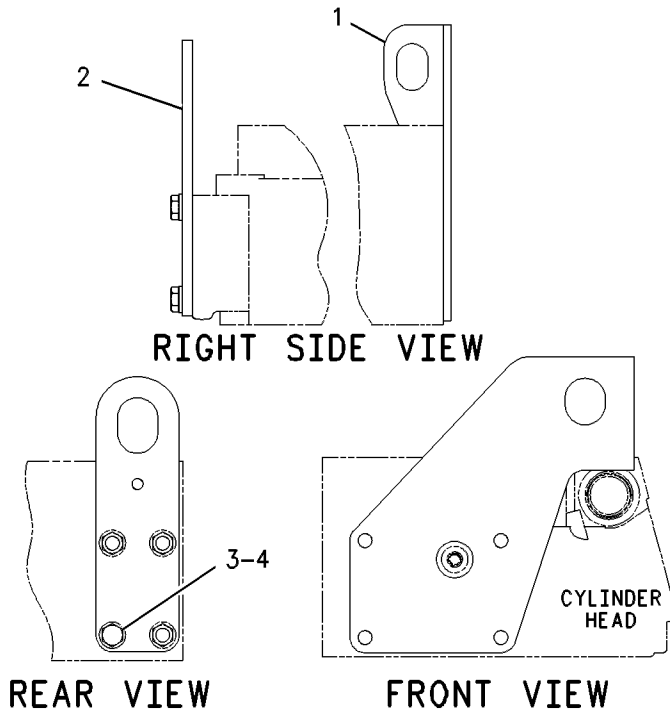
FRONT AND REAR
AN ATTACHMENT

SMCS-1122

i01130453

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	163-0787	1	PLATE-LIFTING						
	2	1	154-0896	1	PLATE-LIFTING						
M	3	1	8T-4136	1	BOLT (M10X1.50X25MM)						
	4	1	8T-4121	1	WASHER (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00597754

BASIC ENGINE

153-5417 LIFTING GP-ENGINE

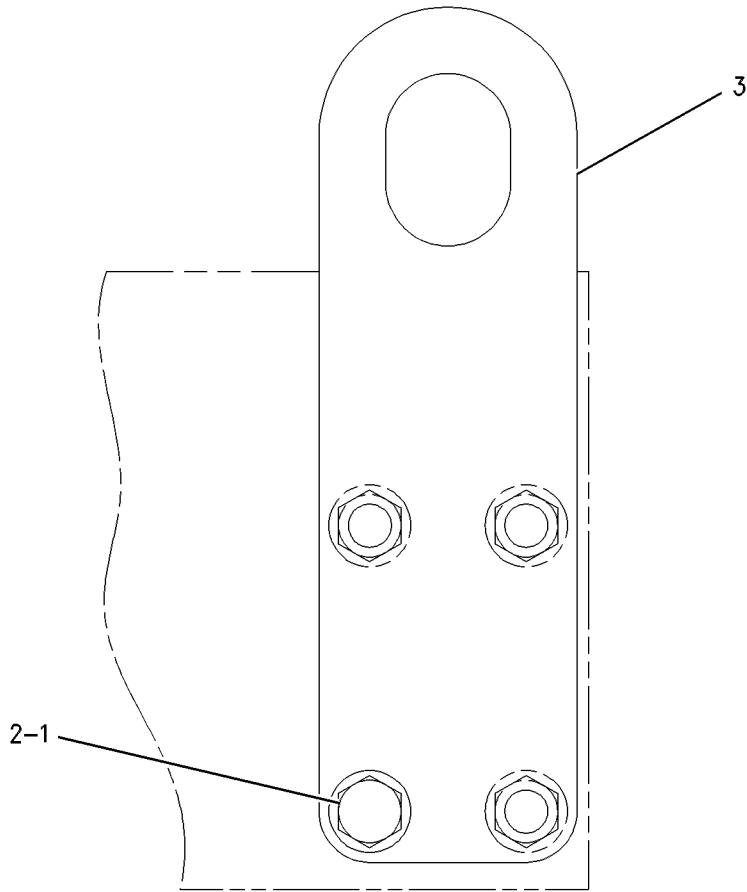
REAR
ALSO AN ATTACHMENT

SMCS-1122

i00864444

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-4136	1	BOLT (M10X1.50X25MM)						
	2	1	8T-4121	1	WASHER (2.5MM THK)						
	3	1	154-0896	1	PLATE-LIFTING						

M-METRIC PART



REAR VIEW

GRAPHIC #1

g00441547

BASIC ENGINE

120-6655 MOUNTING GP-ALTERNATOR

PROVIDES A NON ADJUSTABLE BRACKET & PULLEY

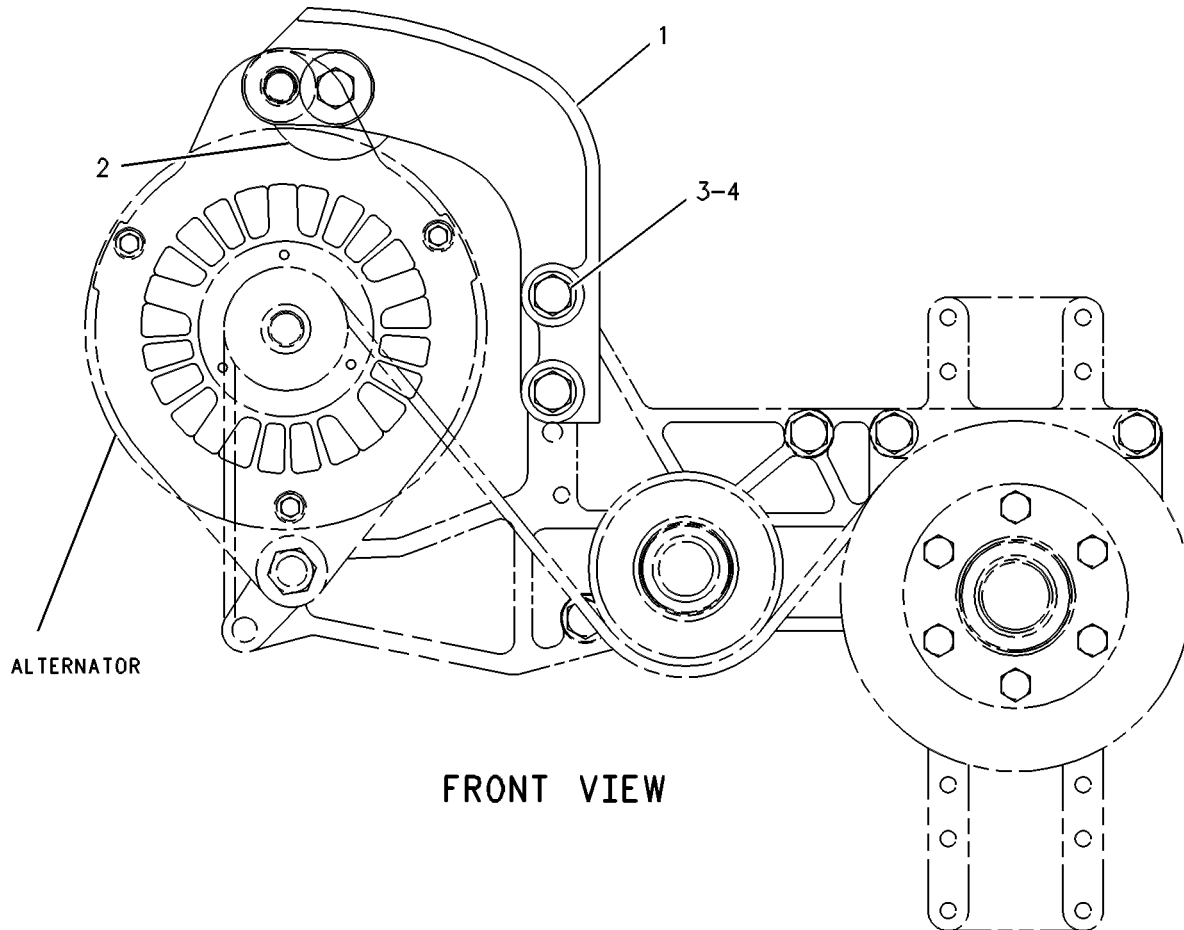
FOR USE WITH 8 GROOVE CRANK PULLEY, 142-7107-PAGE 156, LARGE ALTERNATORS
AN ATTACHMENT

SMCS-1405

i00795966

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	131-2206	1	SUPPORT-ALTERNATOR						
	2	1	129-5096	1	PULLEY-ALTERNATOR						
M	3	1	8T-4186	2	BOLT (M10X1.50X40MM)						
	4	1	8T-4121	2	WASHER (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00268521

BASIC ENGINE

194-9454 MOUNTING GP-ALTERNATOR

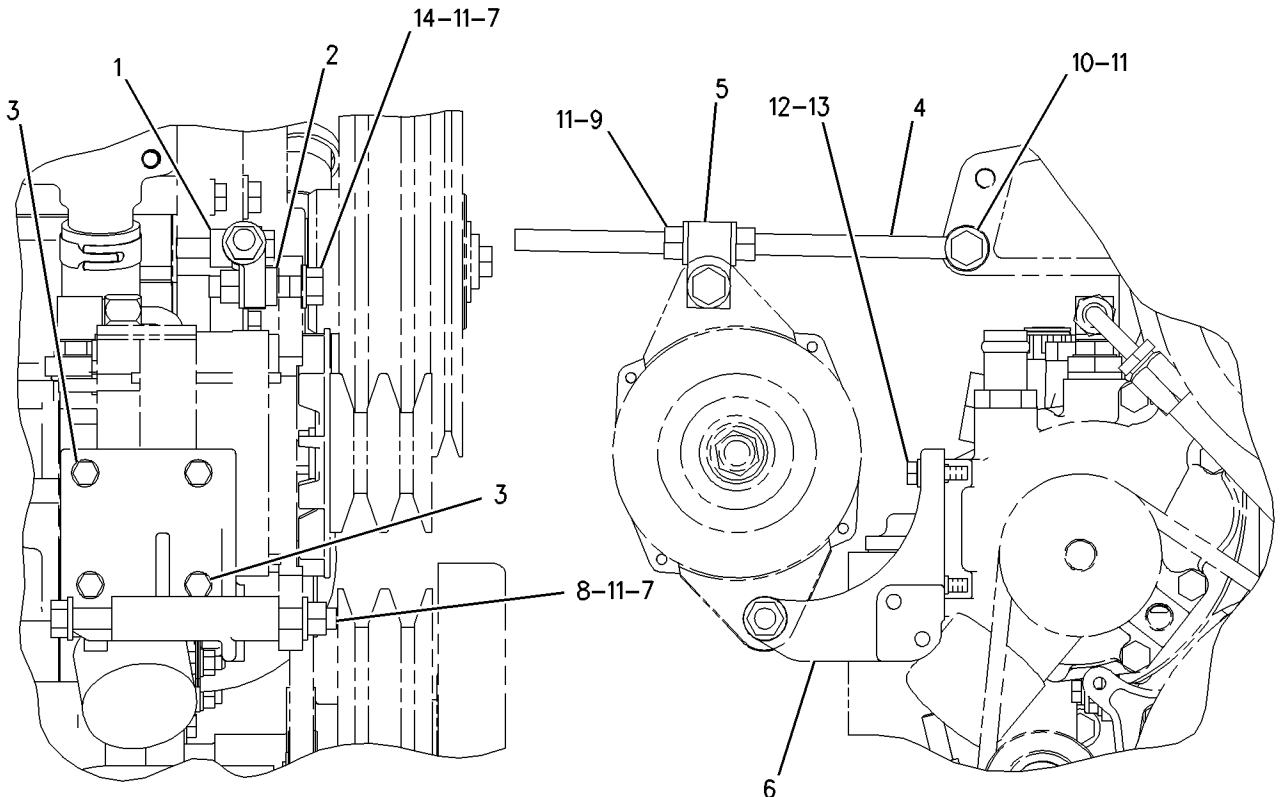
PROVIDES ADJUSTABLE ROD & STRAPS
FOR USE WITH V-BELT FRONT END DRIVE
AN ATTACHMENT

SMCS-1405

i01433984

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1L-1486	1	SPACER (.69X.875X.5 IN THK)						
	2	1	3J-4278	1	SPACER						
	3	1	7W-3872	2	SLEEVE						
	4	1	9L-5134	1	ROD-ALTERNATOR ADJUSTMENT						
	5	1	9L-6329	1	BLOCK						
	6	1	185-0832	1	BRACKET						
	7	1	6V-8188	2	NUT (1/2-13 THD)						
	8	1	7X-0339	1	BOLT (1/2-13X6.25 IN)						
	9	1	7X-3374	2	NUT-FULL (1/2-20 THD)						
M	10	1	8T-4194	1	BOLT (M12X1.75X50MM)						
	11	1	8T-4223	7	WASHER-HARD (13.5X25.5X3MM THK)						
	12	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	13	1	8T-7547	4	BOLT (M8X1.25X30MM)						
	14	1	9X-8278	4	BOLT						

M-METRIC PART



RIGHT SIDE VIEW

FRONT VIEW

GRAPHIC #1

g00752652

BASIC ENGINE

197-8099 MOUNTING GP-ALTERNATOR

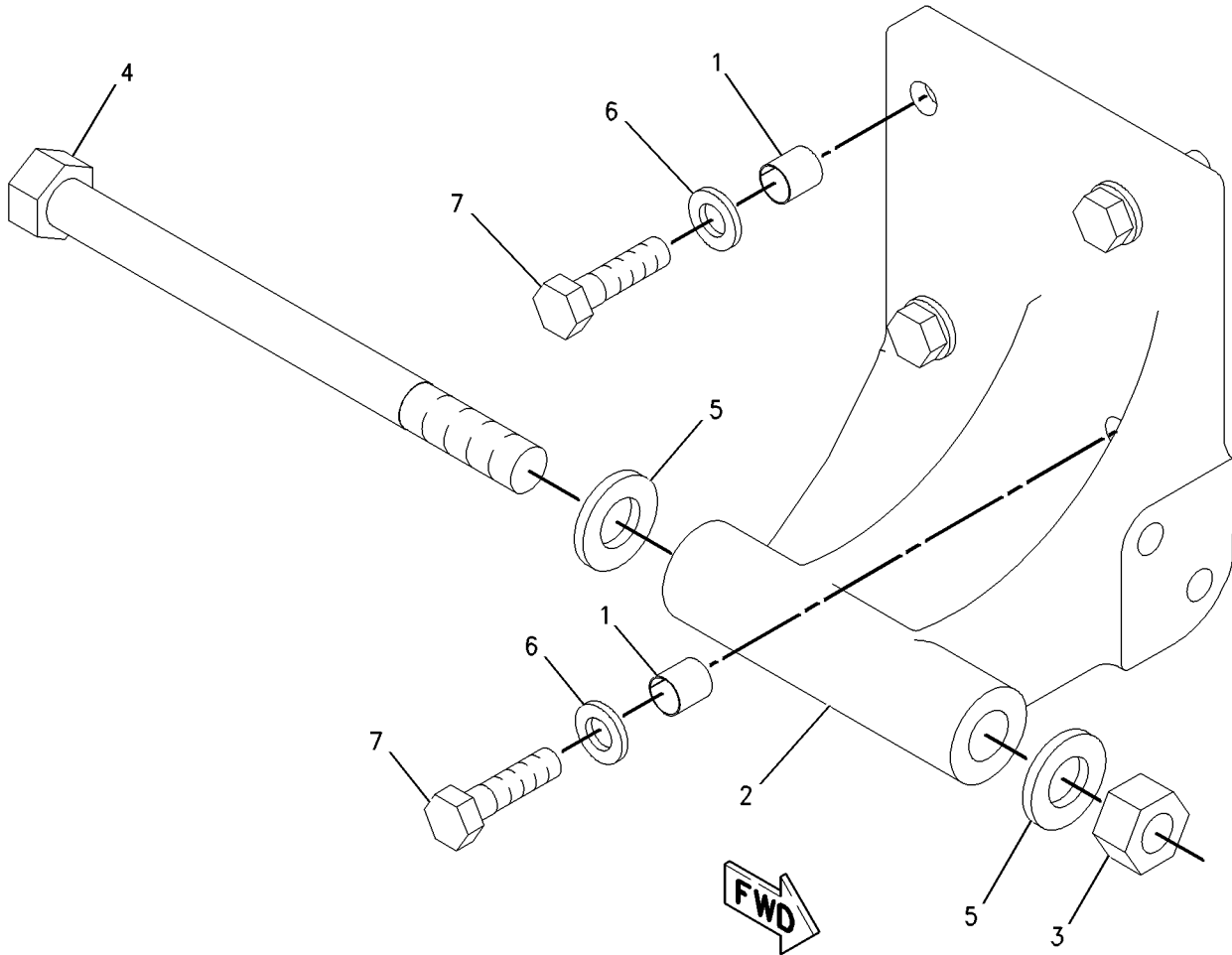
PROVIDES LOWER RH ALT MTG SUPPORT & BOLTS
FOR USE WITH V-BELT FRONT END DRIVE
AN ATTACHMENT

SMCS-1405

i01433986

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	7W-3872	2	SLEEVE						
	2	1	185-0832	1	BRACKET						
	3	1	6V-8188	1	NUT (1/2-13 THD)						
	4	1	7X-0339	1	BOLT (1/2-13X6.25 IN)						
	5	1	8T-4223	2	WASHER-HARD (13.5X25.5X3MM THK)						
	6	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	7	1	8T-7547	4	BOLT (M8X1.25X30MM)						

M-METRIC PART



GRAPHIC #1

g00751924

BASIC ENGINE

207-4102 MOUNTING GP-ALTERNATOR

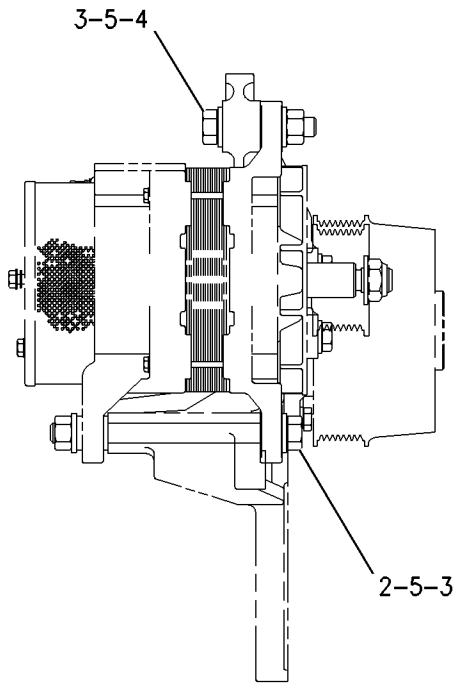
AN ATTACHMENT

SMCS-1405

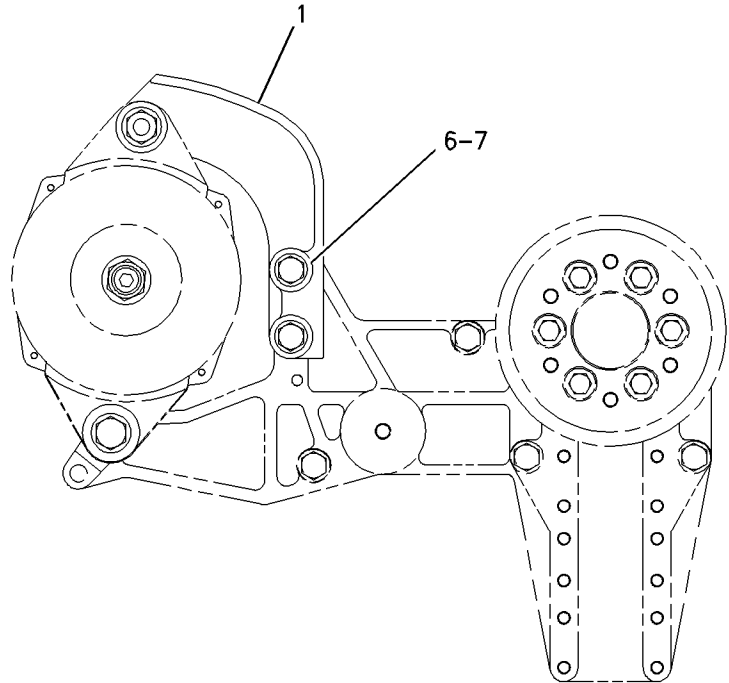
i01593180

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	131-2206	1	SUPPORT-ALTERNATOR						
	2	1	1D-4574	1	BOLT (1/2-13X6 IN)						
	3	1	1F-7958	2	NUT-FULL (1/2-13 THD)						
	4	1	1H-2415	1	BOLT						
	5	1	5P-8245	4	WASHER-HARD (13.5X25.5X3MM THK)						
	6	1	8T-4121	2	WASHER-HARD (11X21X2.5MM THK)						
M	7	1	8T-4186	2	BOLT (M10X1.5X40MM)						

M-METRIC PART



RIGHT SIDE VIEW



FRONT VIEW

GRAPHIC #1

g00811983

BASIC ENGINE

132 - 1454 MOUNTING GP-ENGINE

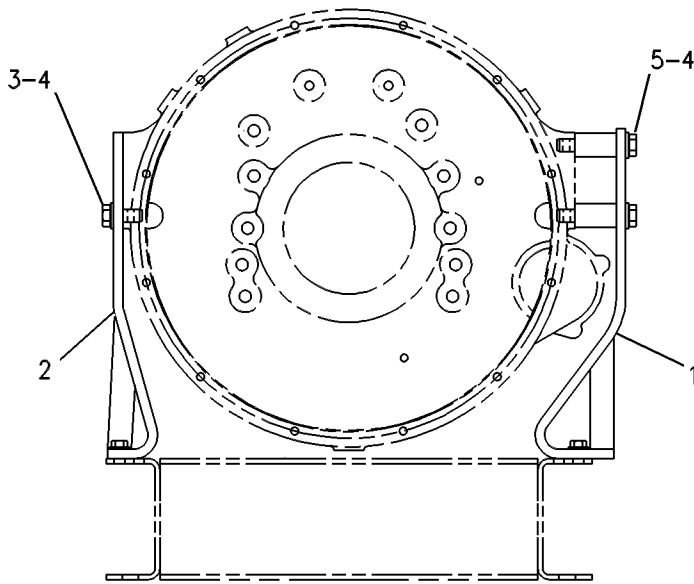
FOR USE WITH SAE NO.1 FLYWHEEL HOUSING, RADIATOR COOLING SYSTEM & LIGHT DUTY OR
CUSTOMER SUPPLIED BASE, 7E-1487-PAGE 540
AN ATTACHMENT

SMCS-1152

i00638994

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	109-8860	1	SUPPORT AS (RH)						
	2	1	109-8859	1	SUPPORT AS (LH)						
M	3	1	6V-4429	2	BOLT (M16X2.0X40MM)						
	4	1	5P-8247	6	WASHER-HARD (3.5MM THK)						
M	5	1	8T-0358	4	BOLT (M16X2.0X90MM)						

M-METRIC PART



REAR VIEW

GRAPHIC #1

g00258207

BASIC ENGINE

132 - 1455 MOUNTING GP - ENGINE

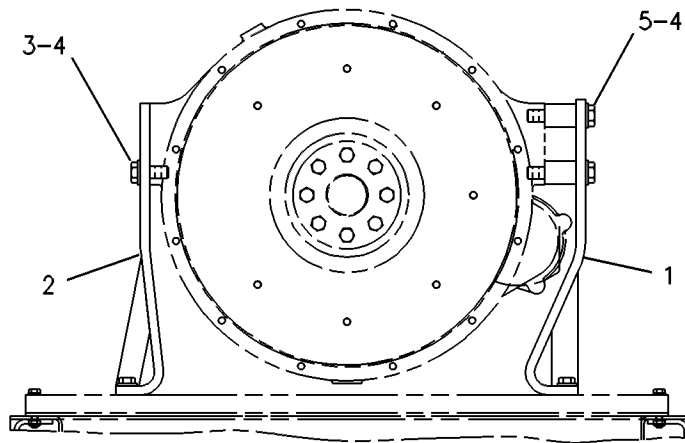
FOR USE WITH SAE NO.2 OR 3 FLYWHEEL HOUSING, RADIATOR COOLING SYSTEM OR CUSTOMER
SUPPLIED BASE, 7E-1487-PAGE 540
AN ATTACHMENT

SMCS-1152

i00639043

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	101-4633	1	SUPPORT AS (RH)						
	2	1	101-4632	1	SUPPORT AS (LH)						
M	3	1	6V-4429	2	BOLT (M16X2.0X40MM)						
	4	1	5P-8247	6	WASHER-HARD (3.5MM THK)						
M	5	1	8T-0281	4	BOLT (M16X2.0X80MM)						

M-METRIC PART



REAR VIEW

GRAPHIC #1

g00258215

BASIC ENGINE

132-1961 MOUNTING GP-ENGINE

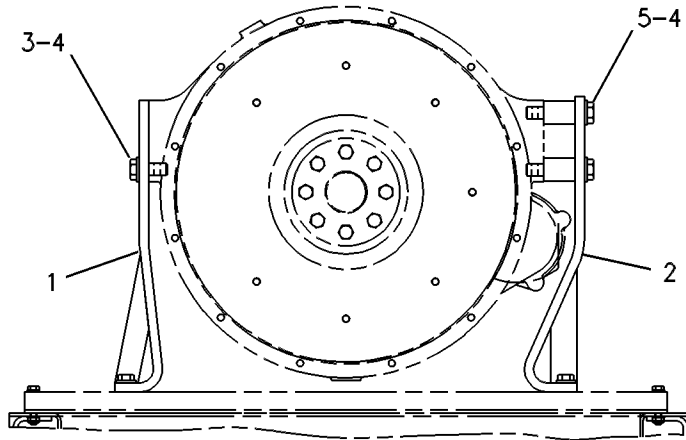
FOR USE WITH SAE NO.2 OR 3 FLYWHEEL HOUSING. CANNOT BE USED WITH RADIATOR COOLANT PACKAGE
AN ATTACHMENT

SMCS-1152

i00639734

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-2107	1	SUPPORT AS (LH FLY. HSG)						
	2	1	9Y-2108	1	SUPPORT AS (RH FLY. HSG)						
M	3	1	6V-4429	2	BOLT (M16X2.0X40MM)						
	4	1	5P-8247	6	WASHER-HARD (3.5MM THK)						
M	5	1	8T-0281	4	BOLT (M16X2.0X80MM)						

M-METRIC PART



REAR VIEW

GRAPHIC #1

g00258230

BASIC ENGINE

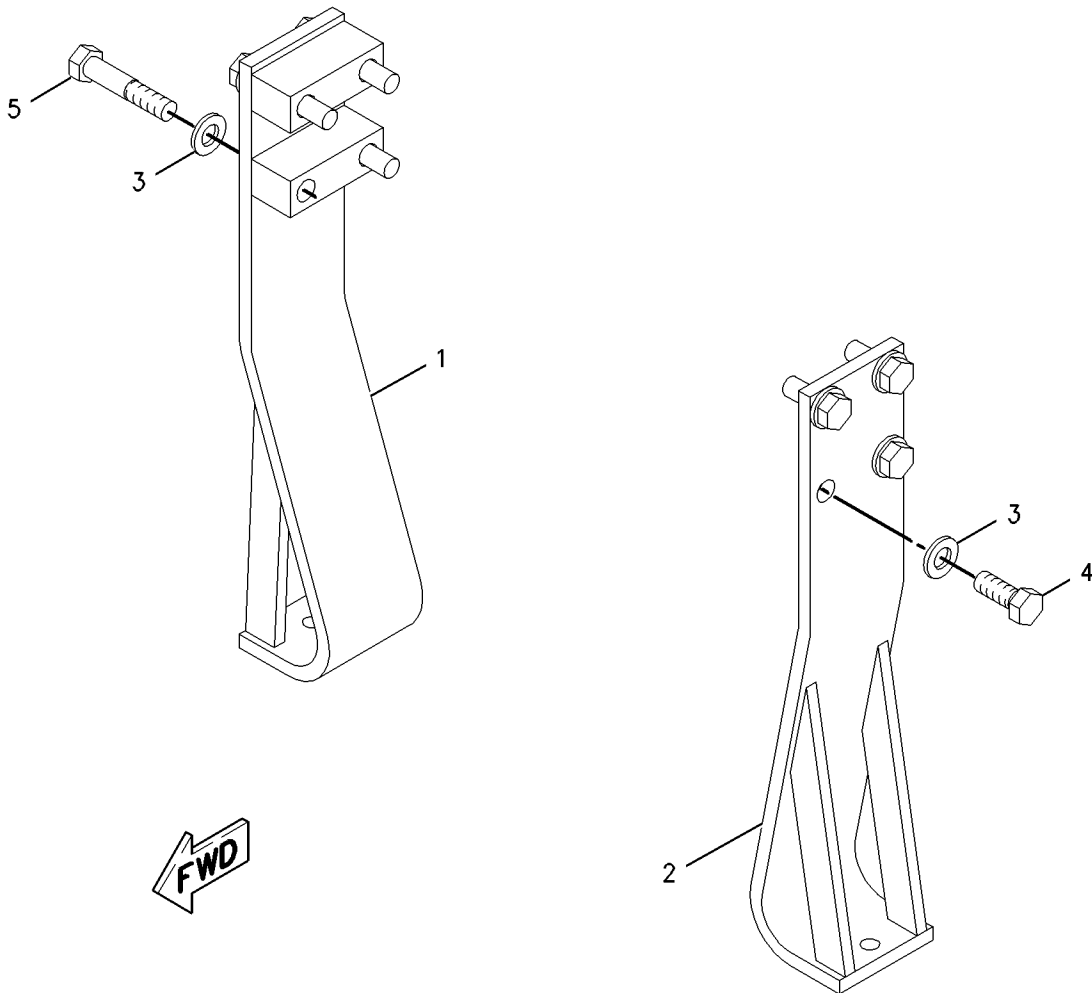
214-5862 MOUNTING GP-ENGINE FOR USE WITH SAE #2 OR #3 FLYWHEEL HOUSING, RH STARTER AN ATTACHMENT

SMCS-1152

i01611481

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	214-5863	1	SUPPORT AS						
	2	1	214-5864	1	SUPPORT AS						
	3	1	5P-8247	8	WASHER-HARD (17X32X3.5MM THK)						
M	4	1	6V-4429	4	BOLT (M16X2X40MM)						
M	5	1	8T-0281	4	BOLT (M16X2X80MM)						

M-METRIC PART



GRAPHIC #1

g00834787

BASIC ENGINE

142-7107 MOUNTING GP-FAN DRIVE

PROVIDES STANDARD MOUNT FAN ADJUSTMENT BRACKET ONLY. REQUIRES PULLEY OR CUSTOMER SUPPLIED FAN DRIVE

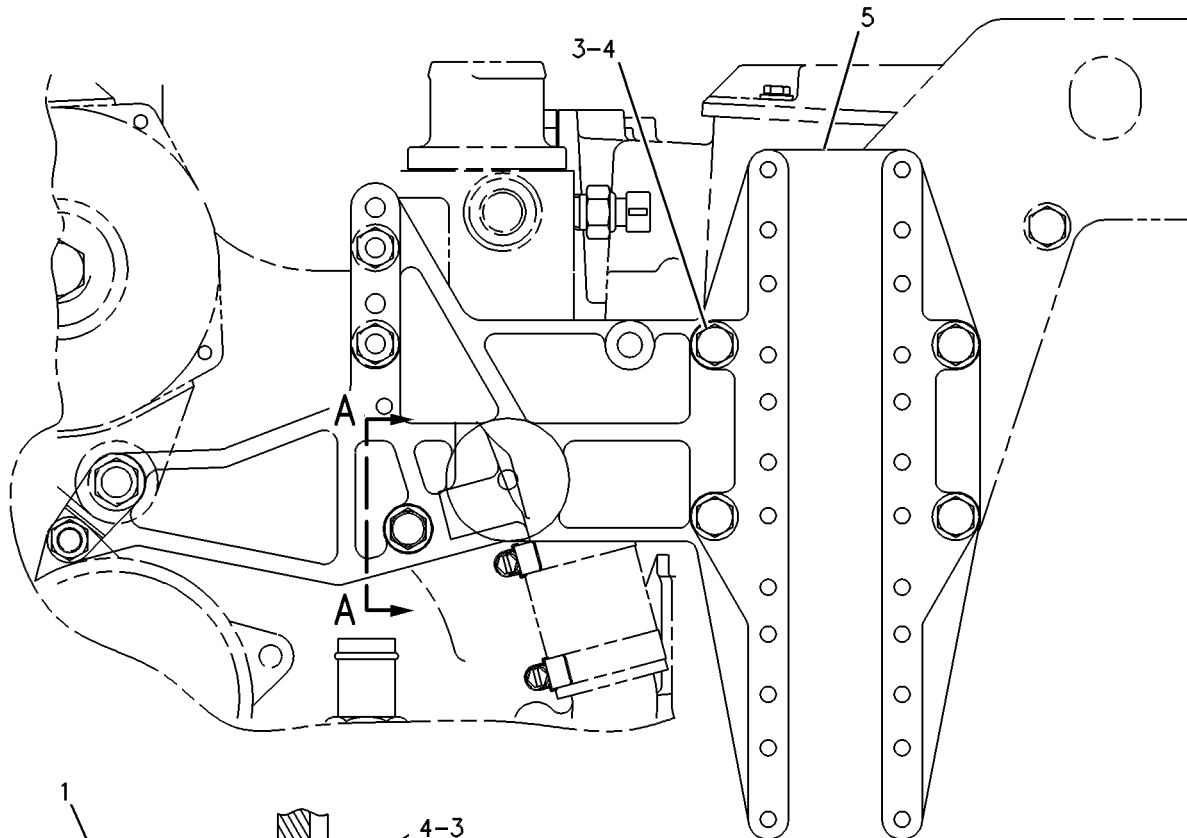
FOR USE WITH 143-7018-PAGE 190, 120-6661-PAGE 143
AN ATTACHMENT

SMCS-1359

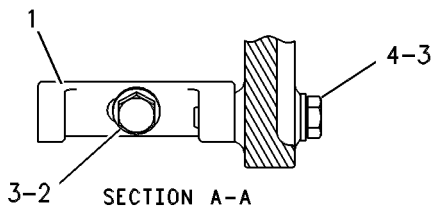
i00828484

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1313	1	BRACKET						
M	2	1	8T-4195	1	BOLT (M10X1.50X30MM)						
	3	1	8T-4121	6	WASHER (2.5MM THK)						
M	4	1	8T-4185	5	BOLT (M10X1.50X50MM)						
	5	1	142-8137	1	SUPPORT-FAN						

M-METRIC PART



FRONT VIEW



GRAPHIC #1

g00287328

BASIC ENGINE

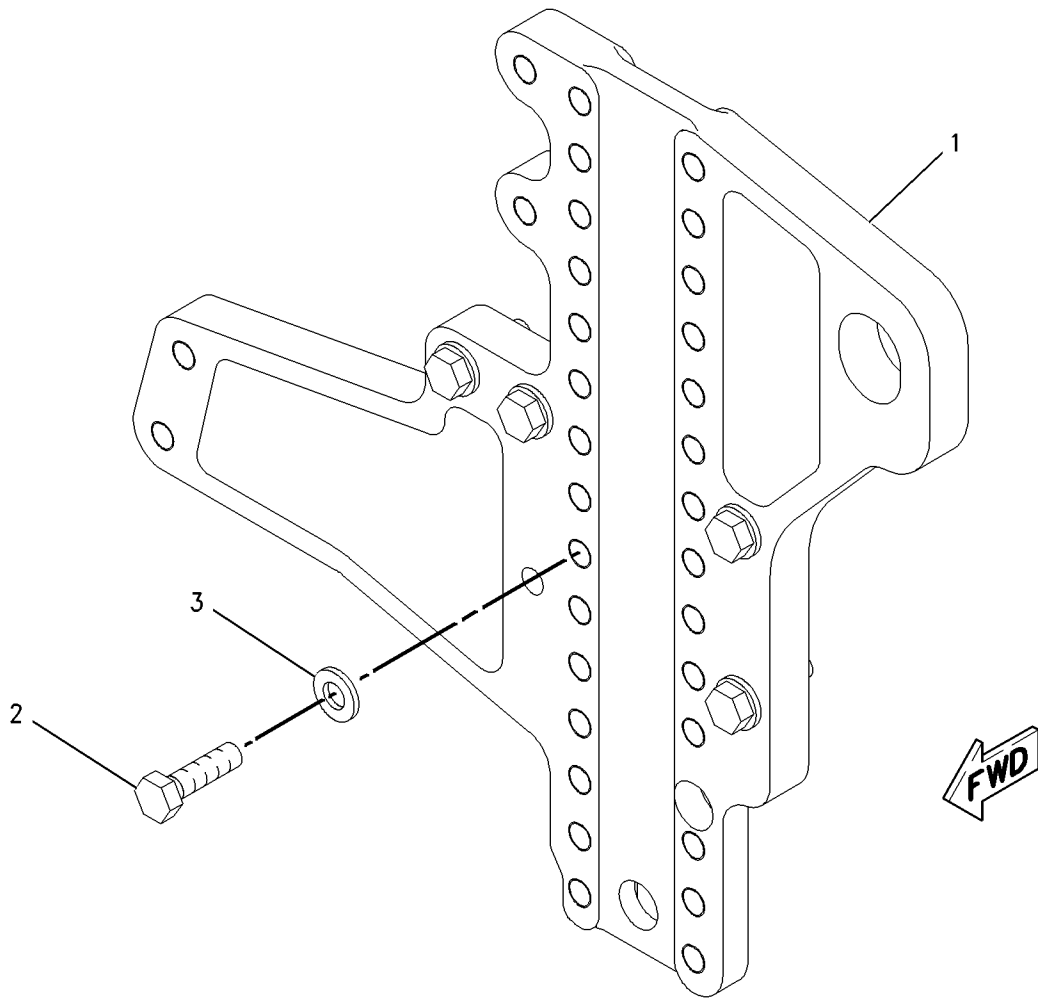
194-1093 MOUNTING GP-FAN DRIVE ADJUSTABLE PLATE FOR 11 INCH TO 22 INCH FAN HEIGHT AN ATTACHMENT

SMCS-1359

i01439831

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	194-1092	1	SUPPORT-FAN						
M	2	1	6V-3822	5	BOLT (M10X1.5X35MM)						
	3	1	6V-5839	5	WASHER (11X21X2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00754312

BASIC ENGINE

197-0649 MOUNTING GP-FAN DRIVE

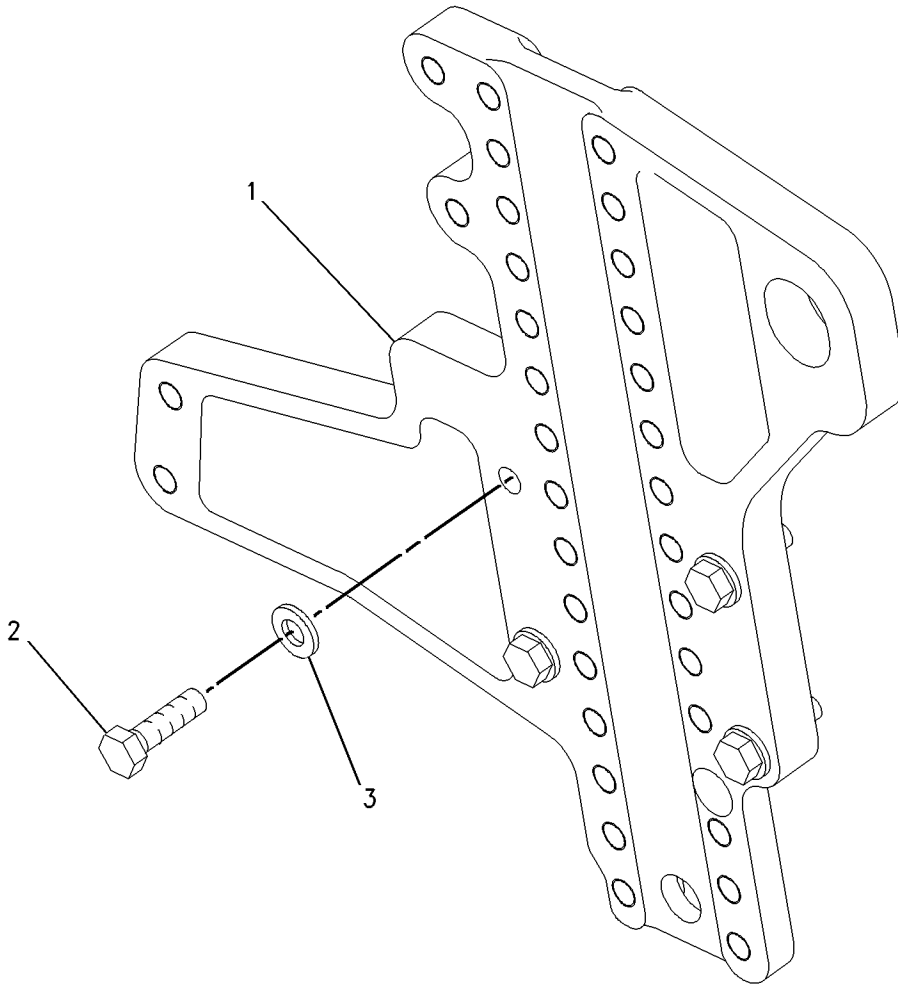
FOR USE WITH FAN HEIGHTS OF 11 TO 22 INCHES, VEE BELT FRONT DESIGN DRIVE
AN ATTACHMENT

SMCS-1359

i01448314

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	197-0646	1	SUPPORT-FAN						
M	2	1	6V-3822	4	BOLT (M10X1.5X35MM)						
	3	1	6V-5839	4	WASHER (11X21X2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00758412

BASIC ENGINE

201-9762 MOUNTING GP-FAN DRIVE

PROVIDES FRONT DRIVE SYSTEM

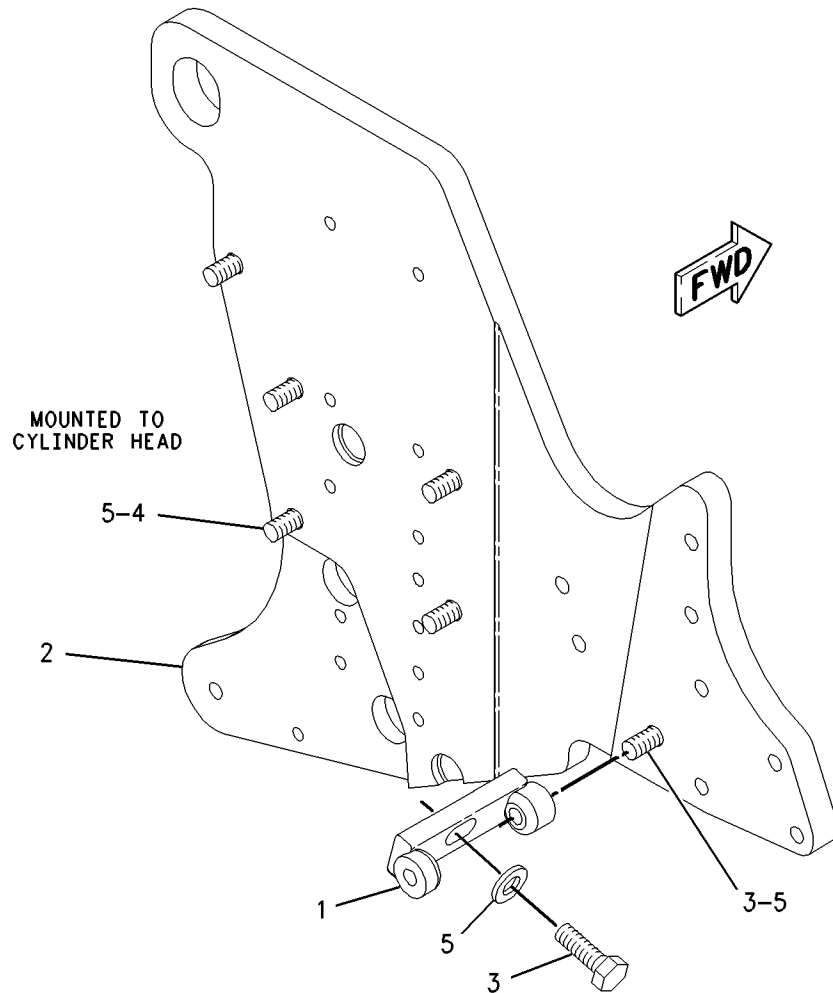
ALSO AN ATTACHMENT

SMCS-1359

i01529561

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1313	1	BRACKET						
	2	1	201-9761	1	SUPPORT AS-FAN						
M	3	1	6V-1820	2	BOLT (M10X1.50X30MM)						
M	4	1	6V-3822	5	BOLT (M10X1.5X35MM)						
	5	1	6V-5839	7	WASHER (11X21X2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00794289

BASIC ENGINE

194-9467 MOUNTING GP-REFRIGERANT COMPR

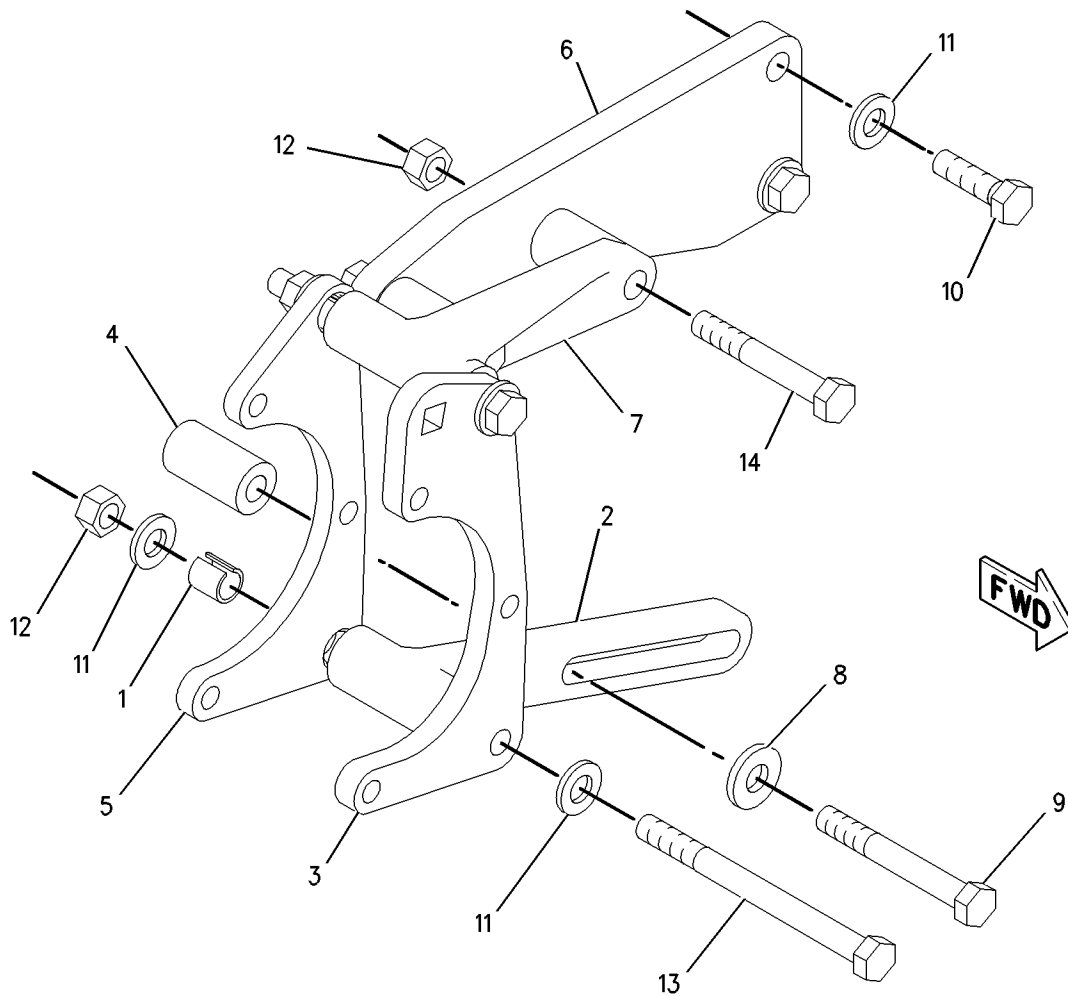
FOR USE WITH CUSTOMER PROVIDED REFRIGERANT COMPRESSOR, V-BELT PULLEYS AND FAN MTG
AN ATTACHMENT

SMCS-1802

i01433377

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-3976	2	SPACER (16.8MM OD X 17.5MM OAL)						
	2	1	7E-8918	1	BRACKET						
	3	1	9Y-7573	1	PLATE						
	4	1	054-5060	1	TUBE						
	5	1	194-9455	1	PLATE						
	6	1	194-9466	1	BRACKET						
	7	1	194-9468	1	BRACKET						
	8	1	5P-1076	1	WASHER-HARD (13.5X30X4MM THK)						
M	9	1	8T-4176	1	BOLT (M12X1.75X90MM)						
M	10	1	8T-4183	2	BOLT (M12X1.75X40 MM)						
	11	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						
M	12	1	8T-4244	4	NUT (M12X1.75 THD)						
M	13	1	8T-5412	2	BOLT (M12X1.75X140MM)						
M	14	1	8T-6868	2	BOLT (M12X1.75X80MM)						

M-METRIC PART



GRAPHIC #1

g00752094

BASIC ENGINE

9Y-4146 MOUNTING GP-TORQUE CONVERTER

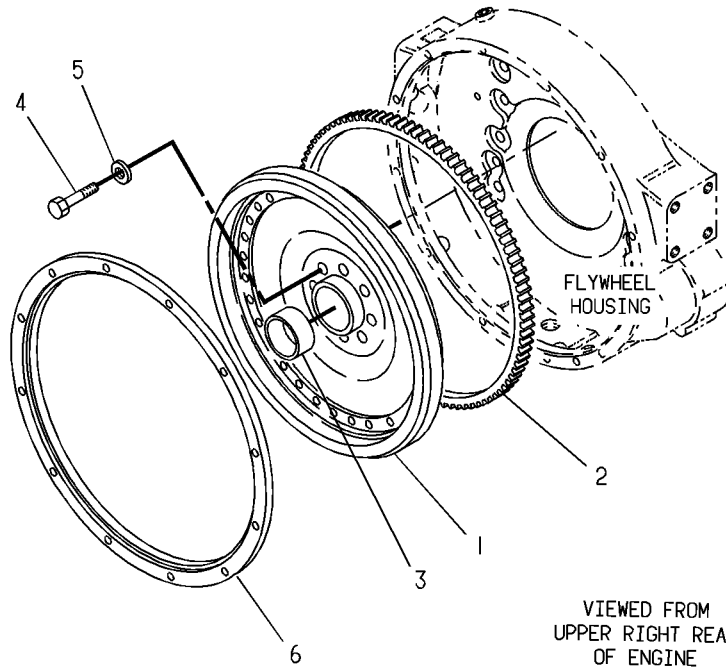
FOR USE WITH SAE NO. 3 FLYWHEEL HOUSING
AN ATTACHMENT

SMCS-3101

i00638541

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-4147	1	FLYWHEEL AS						
	2	1	2N-1599	1	GEAR (126 TEETH)						
	3	1	4W-7594	1	SLEEVE - HARDENED						
M	4	1	6V-7673	8	BOLT (M12X1.75X50MM)						
	5	1	5P-8245	8	WASHER (3MM THK)						
	6	1	9Y-4636	1	ADAPTER						

M-METRIC PART



GRAPHIC #1

g00195856

BASIC ENGINE

9Y-4144 MOUNTING GP-TRANSMISSION

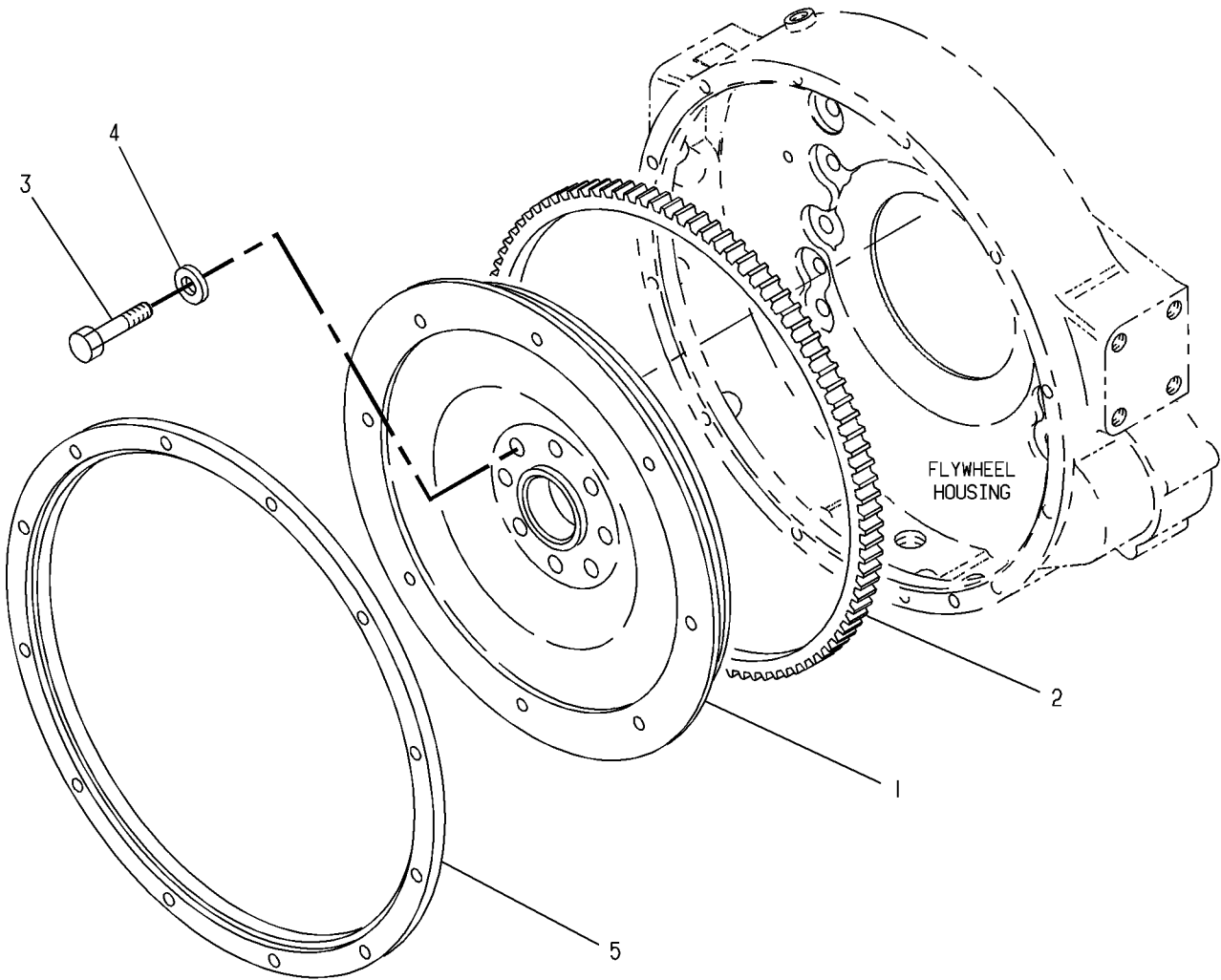
FOR USE WITH SAE NO. 3 FLYWHEEL HOUSING, REQUIRES FLYWHEEL HOUSING WITH ACCESS HOLES FOR FLYWHEEL TO TRANSMISSION MOUNTING BOLTS AN ATTACHMENT

SMCS-3030

i00638526

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-4145	1	FLYWHEEL AS						
	2	1	2N-1599	1	GEAR (126 TEETH)						
M	3	1	6V-8197	8	BOLT (M12X1.75X40MM)						
	4	1	5P-8245	8	WASHER (3MM THK)						
	5	1	9Y-4350	1	ADAPTER-FLYWHEEL HOUSING						

M-METRIC PART



GRAPHIC #1

g00195011

BASIC ENGINE

117-5123 PAN GP-OIL

25 LITERS. CENTER SUMP

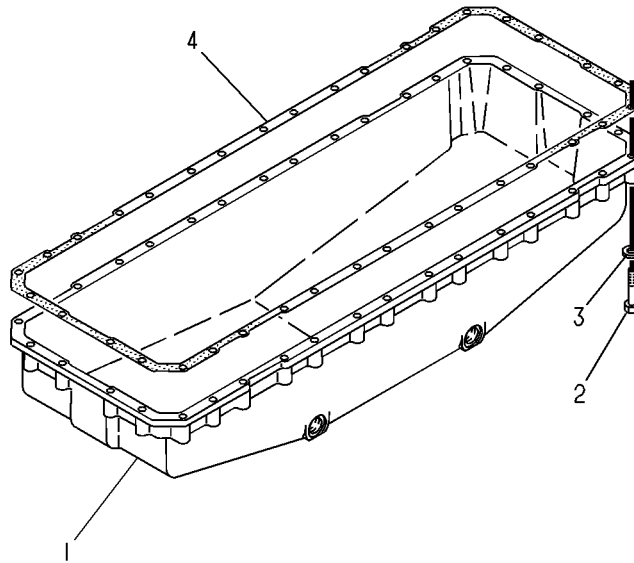
FOR USE WITH 6I-2687-PAGE 251, 117-5125-PAGE 257
AN ATTACHMENT

SMCS-1302

i01584648

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	126-5890	1	PAN-OIL						
M	2	1	6V-3918	36	BOLT (M8X1.25X50MM)						
	3	1	9M-1974	36	WASHER-HARD (8.8X16X2MM THK)						
	4	1	115-4202	1	GASKET						

M-METRIC PART



GRAPHIC #1

g00194669

BASIC ENGINE

126-5931 PAN GP-OIL

31 LITER. FRONT SUMP

FOR USE WITH 7C-2475-PAGE 256, 7C-4566-PAGE 72

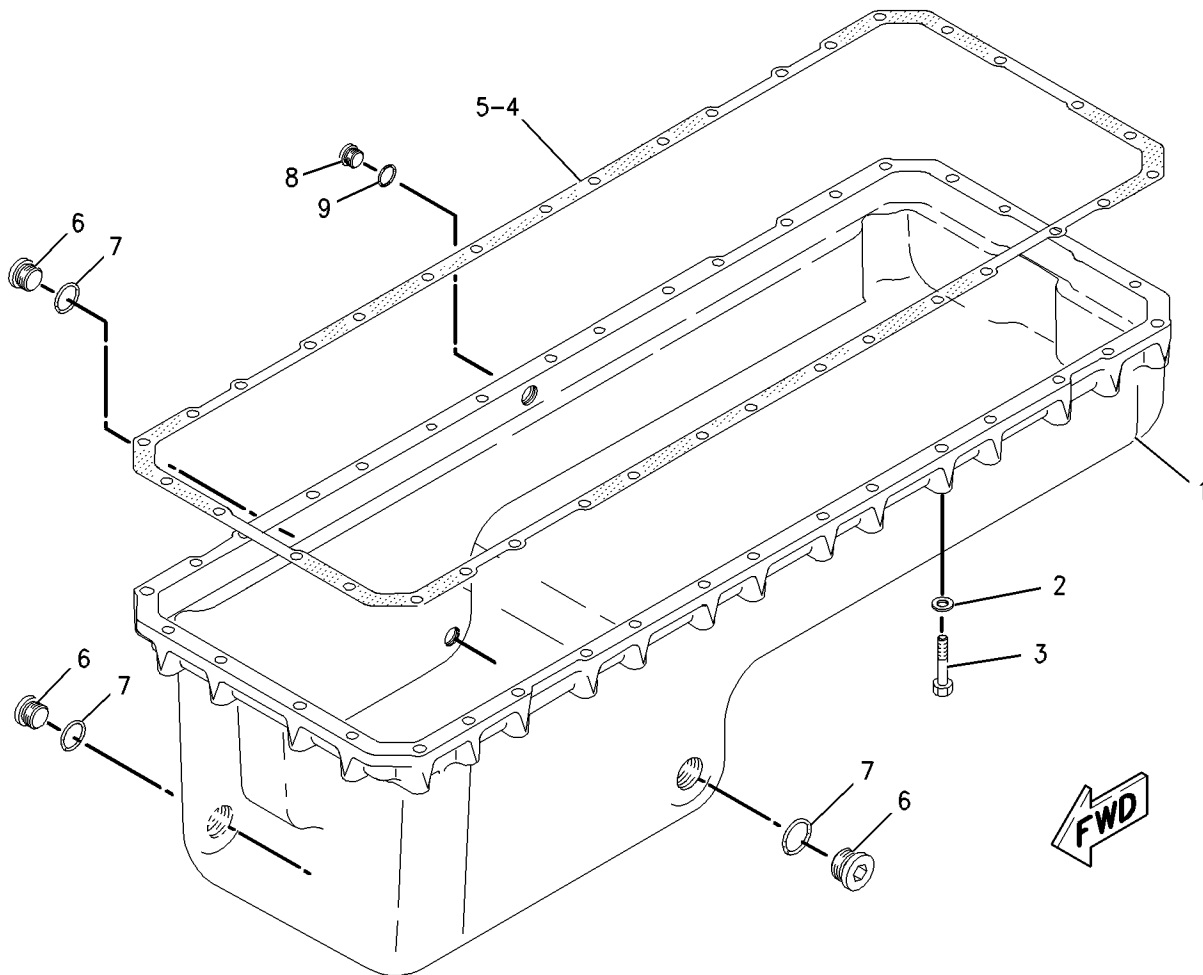
ALSO AN ATTACHMENT

SMCS-1302

i01581410

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	144-3484	1	PAN-OIL						
	2	1	9M-1974	36	WASHER-HARD (8.8X16X2MM THK)						
M	3	1	6V-3918	36	BOLT (M8X1.25X50MM)						
	4	1	115-4202	1	GASKET						
B	5	1	1U-8846		SEALANT-GASKET						
	6	1	9S-8008	2	PLUG-O-RING (1-1/16X12-2A THD)						
	7	1	3D-2824	2	SEAL-O-RING						
	8	1	9S-8004	1	PLUG (9/16X18-2A THD)						
	9	1	3J-1907	1	SEAL-O-RING						

B- USE AS REQUIRED
M- METRIC PART



GRAPHIC #1

g00820738

BASIC ENGINE

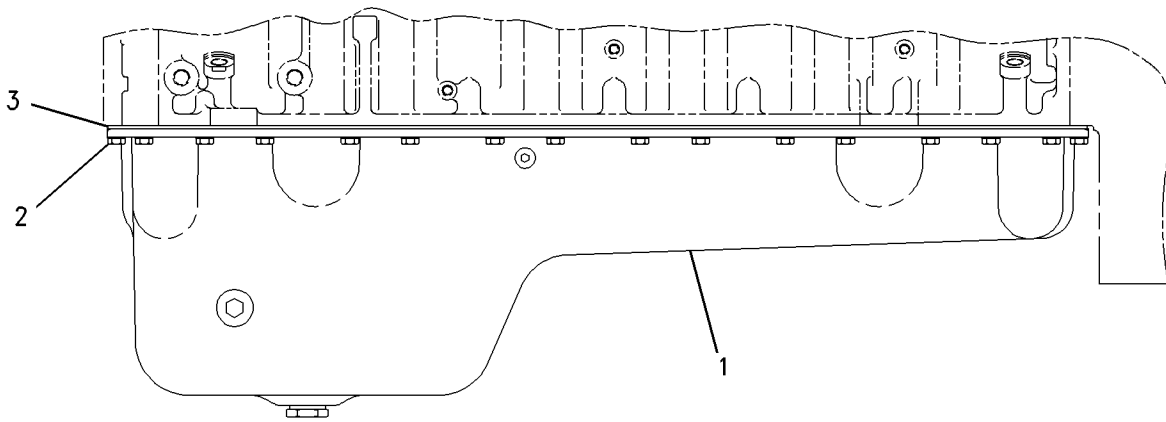
175-3231 PAN GP-OIL 28 LITER. FRONT SUMP FOR USE WITH 7C-2475-PAGE 256 AN ATTACHMENT

SMCS-1302

i01566093

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	175-3232	1	PAN GP-OIL						166
M	2	1	175-3676	36	BOLT-HEX HEAD						
	3	1	166-2905	1	SEAL-INTEGRAL						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



LEFT SIDE VIEW

GRAPHIC #1

g00813942

BASIC ENGINE

175-3232 PAN GP-OIL

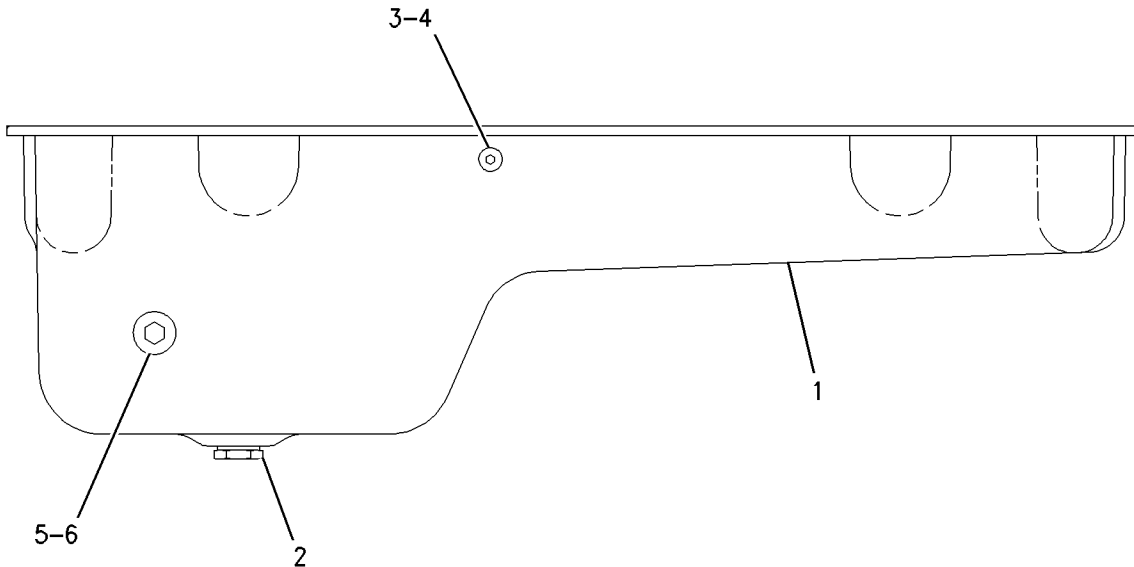
FRONT SUMP

PART OF 175-3231 PAN GP-OIL
AN ATTACHMENT

SMCS-1302

i01509433

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	175-3230	1	PAN AS-OIL						
	2	1	168-2288	1	PLUG AS (M18X1.5 THREAD)						
		1	169-7487	1	SEAL-O-RING						
	3	1	9S-8004	1	PLUG						
	4	1	3J-1907	1	SEAL-O-RING						
	5	1	9S-8008	1	PLUG-O-RING						
	6	1	3D-2824	1	SEAL-O-RING						



LEFT SIDE VIEW

GRAPHIC #1

g00783656

BASIC ENGINE

161-8420 PISTON & ROD GP*R

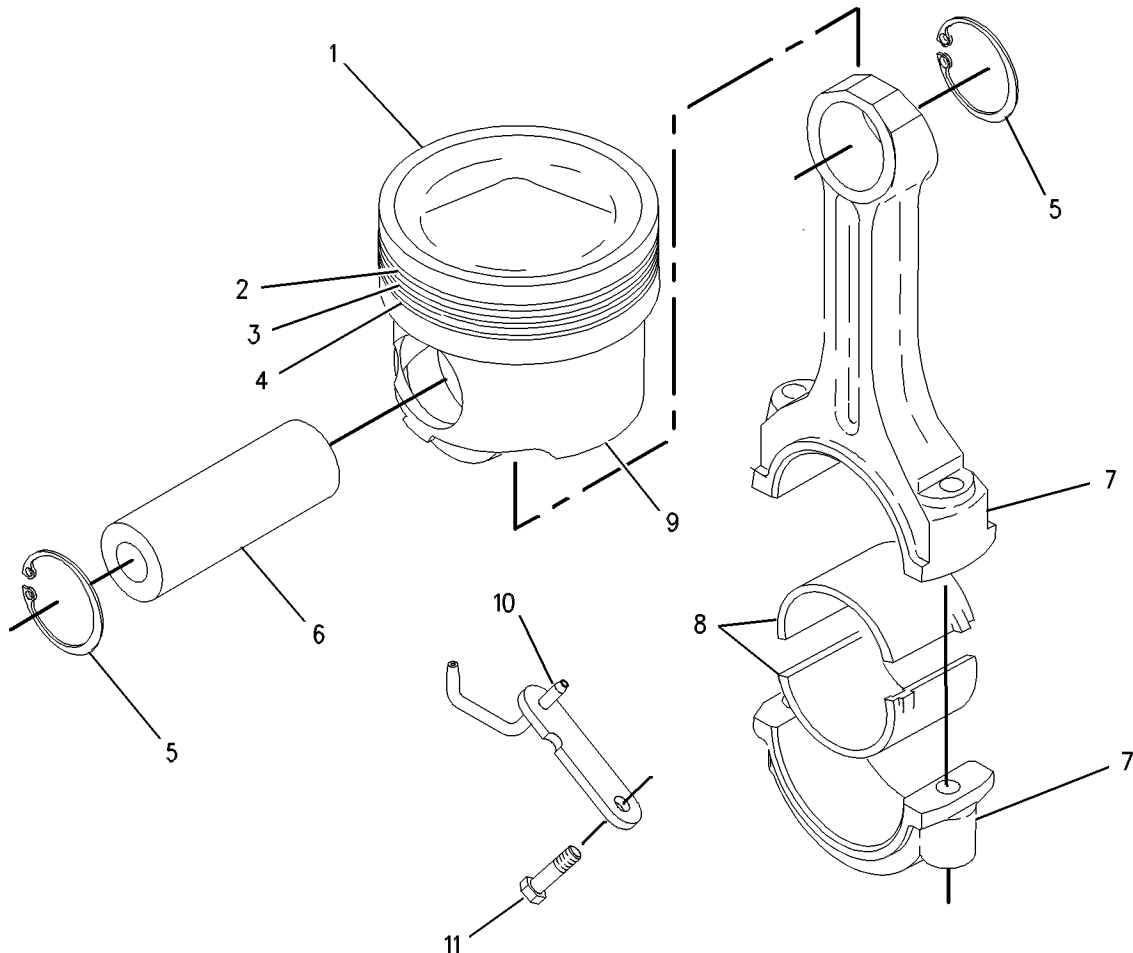
16:1 RATIO

SMCS-1225

i01622081

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	150-4621	1	CROWN AS-PISTON						
	2	1	132-5246	1	RING-PISTON (TOP) (TOP)						
	3	1	107-7630	1	RING-PISTON (INTERMEDIATE)						
	4	1	107-7566	1	RING-PISTON (OIL CONTROL)						
	5	1	7C-0111	2	RETAINER-PIN						
	6	1	168-7226	1	PIN-PISTON						
R	7	1	2W-9128	1	ROD AS-CONNECTING						
		1	4P-3313	1	ROD-CONNECTING						
		1	2W-0027	1	BEARING						
		1	9L-7669	2	NUT-CONNECTING ROD (7/16-20 THD)						
		1	9N-3832	2	BOLT-CONNECTING ROD						
	8	1	7W-9415	1	BEARING-CONNECTING ROD (STANDARD)						
A		1	7C-6976	1	BEARING (.25MM US)						
A		1	7C-6977	1	BEARING (.5MM US)						
	9	1	115-4083	1	SKIRT-PISTON						
	10	1	135-5970	1	TUBE AS-PISTON COOLING JET						
M	11	1	6V-3940	1	BOLT (M8X1.25X25MM)						

A - NOT PART OF THIS GROUP
M - METRIC PART
R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00588811

BASIC ENGINE

177-7500 PISTON & ROD GP

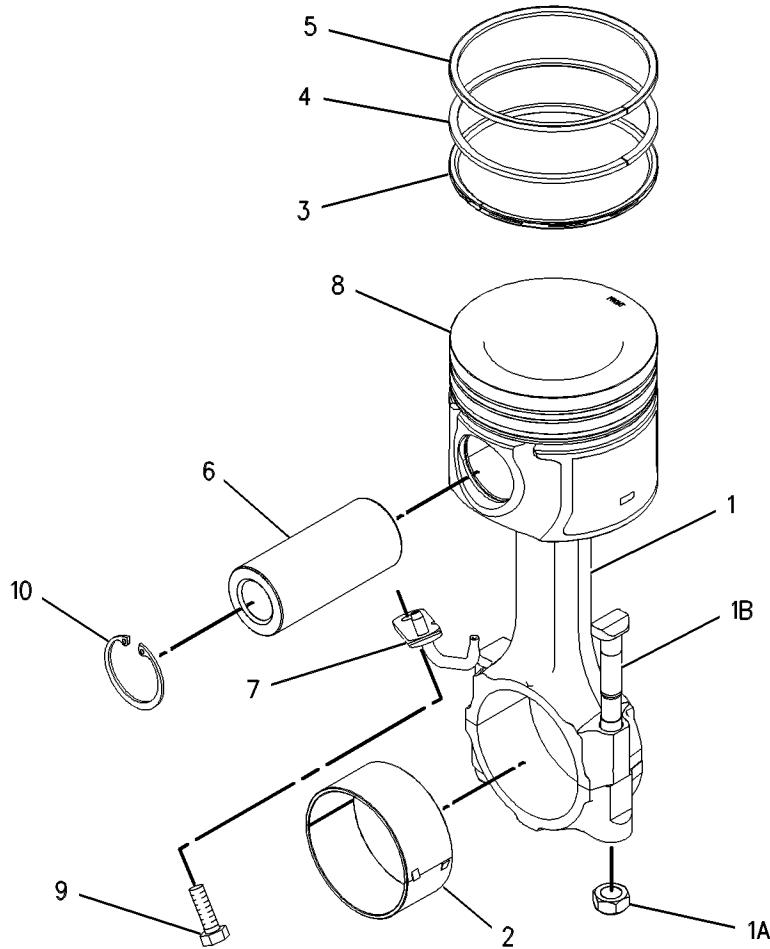
16:1 COMPRESSION RATIO

SMCS-1225

i01551715

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE		
						1	2	3	4	5	6			
R	1	1	2W-9128	1	ROD AS-CONNECTING									
	1A	1	9L-7669	2	NUT-CONNECTING ROD (7/16-20 THD)									
	1B	1	9N-3832	2	BOLT-CONNECTING ROD									
	2	1	7W-9415	1	BEARING-CONNECTING ROD (STANDARD)									
A		1	7C-6976	1	BEARING (.25MM US)									
A		1	7C-6977	1	BEARING (.5MM US)									
	3	1	107-7566	1	RING-PISTON (OIL CONTROL)									
	4	1	197-9277	1	RING (INTERMEDIATE)									
	5	1	132-5246	1	RING-PISTON (TOP)									
	6	1	168-7224	1	PIN-PISTON									
	7	1	173-0143	1	TUBE AS-OIL JET									
	8	1	177-7498	1	BODY AS-PISTON									
M	9	1	6V-3940	1	BOLT (M8X1.25X25MM)									
	10	1	7C-0111	2	RETAINER-PIN									

A - NOT PART OF THIS GROUP
M - METRIC PART
R - REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00659174

BASIC ENGINE

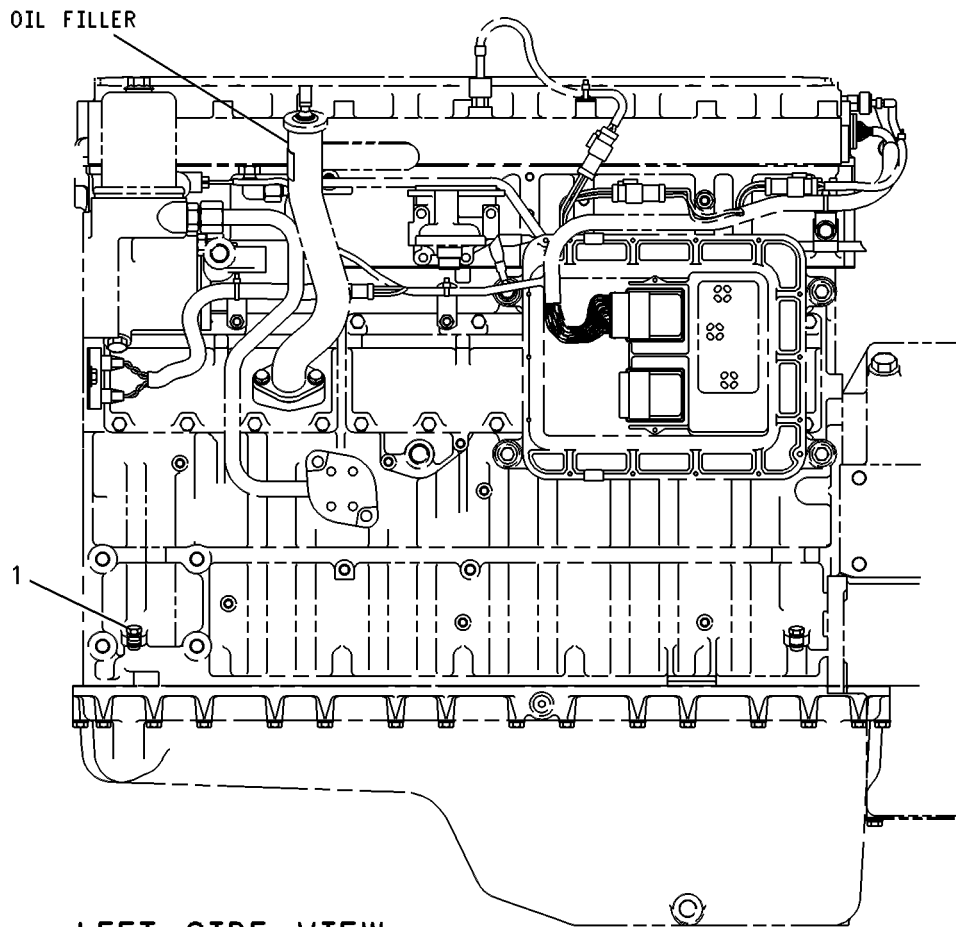
135-2141 PLUG GP-CYLINDER BLOCK

PROVIDES PLUGS WHEN GAUGE IS NOT REQUIRED
AN ATTACHMENT

SMCS-1201

i00814738

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1S-2563	4	PLUG						



LEFT SIDE VIEW

GRAPHIC #1

g00265825

BASIC ENGINE

159-0303 PLUG GP-CYLINDER BLOCK

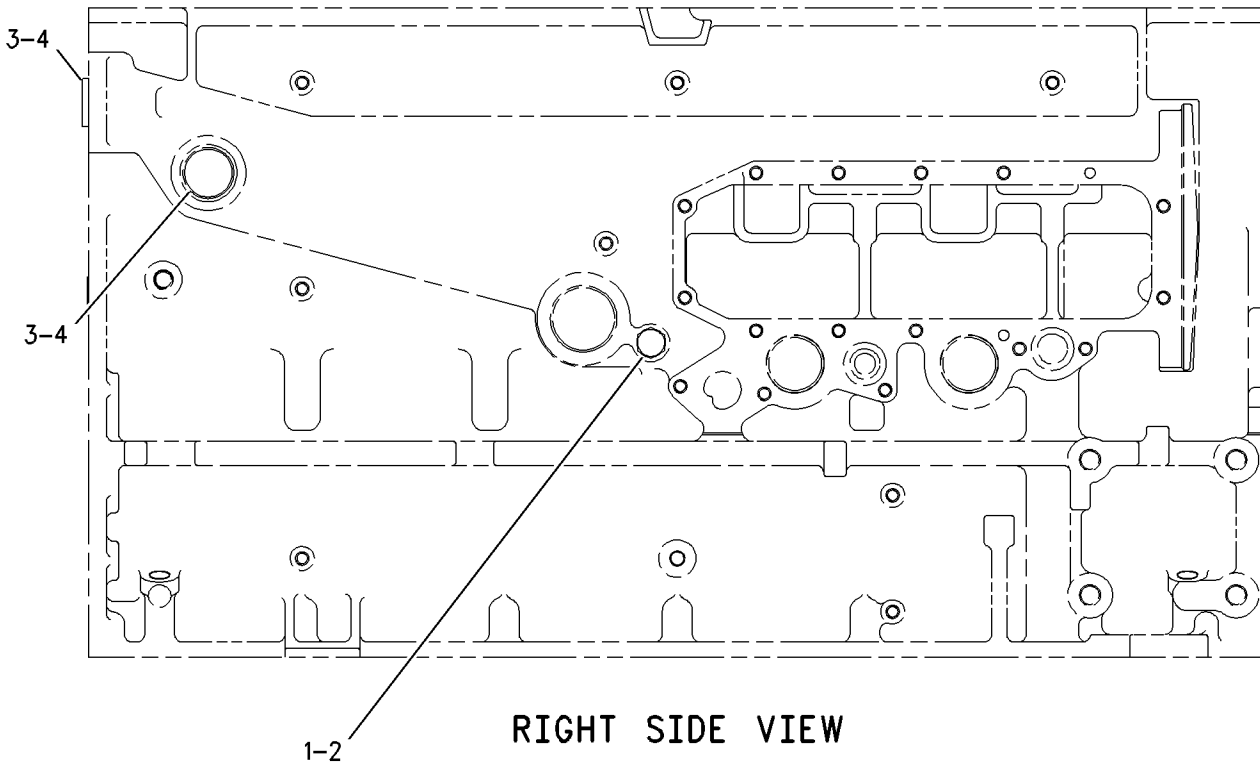
REQUIRED WHEN REMOTE MOUNT COOLANT CONDITIONER IS NOT USED
ALSO AN ATTACHMENT

SMCS-1201

i01273670

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-0293	1	BOLT (M12X1.75X20MM)						
	2	1	6F-7062	1	WASHER (1.83MM THK)						
	3	1	9S-8008	2	PLUG-O-RING (1 1/16-12 THD)						
	4	1	3D-2824	2	SEAL-O-RING (23.47MM ID)						

M-METRIC PART



GRAPHIC #1

g00677138

BASIC ENGINE

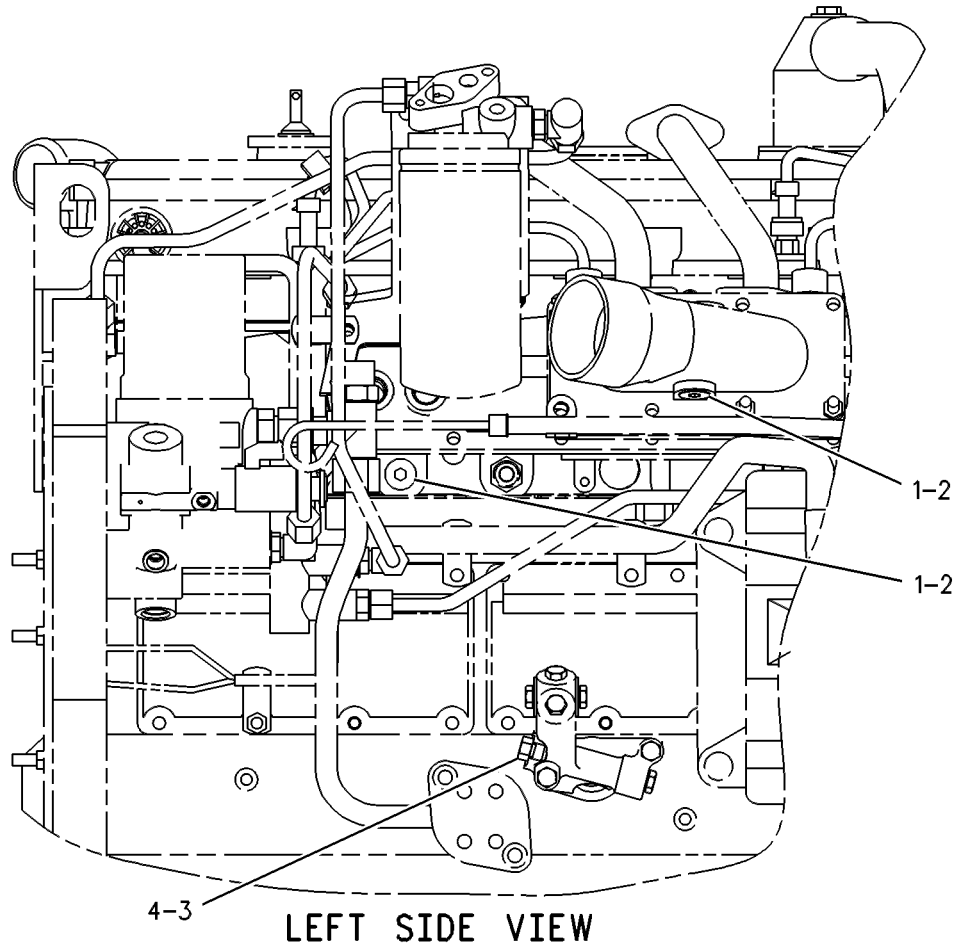
142-8336 PLUG GP-ENGINE

PROVIDES PLUGS & FITTINGS FOR CUSTOMER SUPPLIED AIR COMPRESSOR
ALSO AN ATTACHMENT

SMCS-1100

i01568791

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-8005	2	PLUG						
	2	1	3K-0360	2	SEAL-O-RING						
	3	1	9S-4182	1	PLUG-O-RING						
	4	1	3J-7354	1	SEAL-O-RING						



LEFT SIDE VIEW

GRAPHIC #1

g00287757

BASIC ENGINE

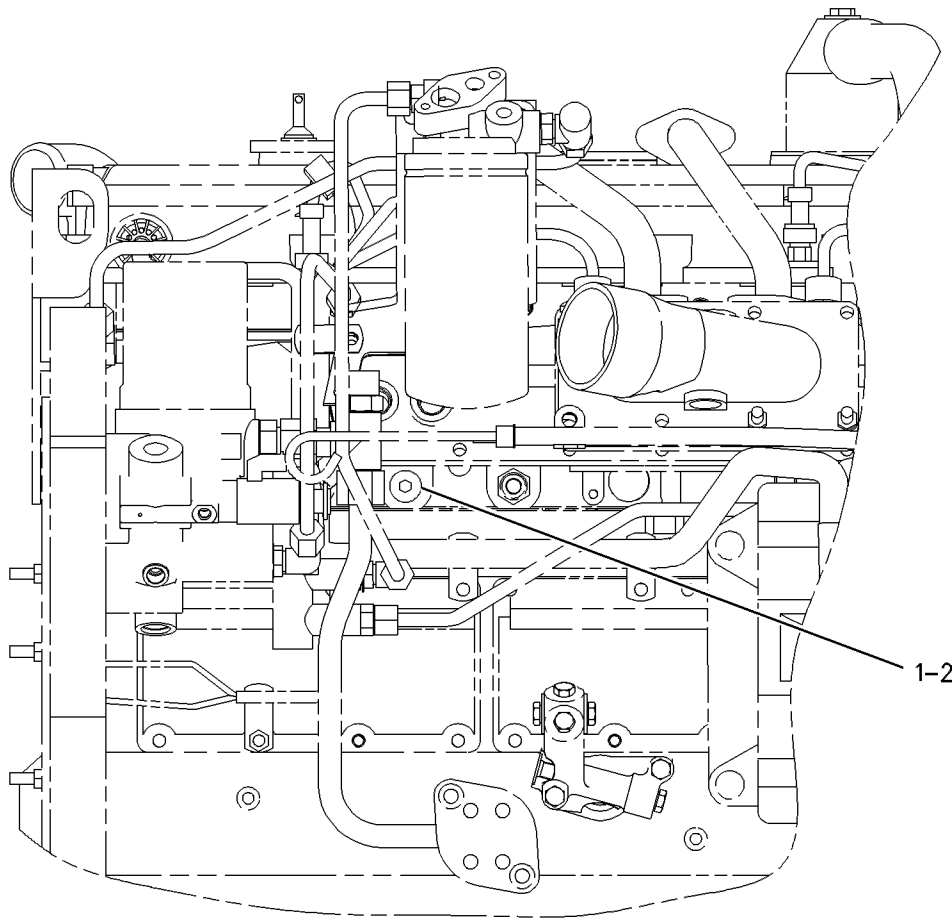
162-8068 PLUG GP-ENGINE

PROVIDES PLUG IN REAR OF HEAD
AN ATTACHMENT

SMCS-1100

i01029257

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-8005	1	PLUG-O-RING (3/4-16 THD)						
	2	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						



GRAPHIC #1

g00530355

BASIC ENGINE

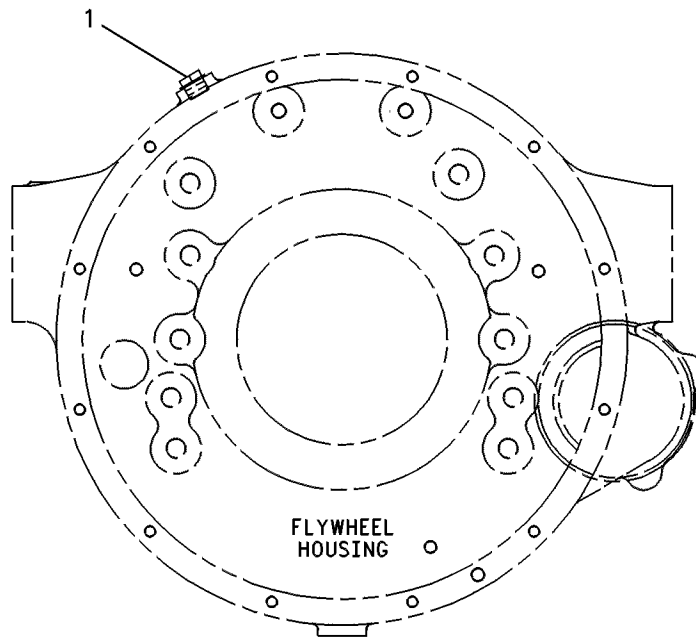
121-0802 PLUG GP-FLYWHEEL HOUSING

CANNOT BE USED WITH 117-4739-PAGE 443, 132-1378-PAGE 537, 132-1379-PAGE 538,
132-1380-PAGE 539
AN ATTACHMENT

SMCS-1157

i00638549

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2P-1294	1	PLUG-SEAL						



GRAPHIC #1

g00244704

BASIC ENGINE

3N-9098 POWER TAKE-OFF GP-REAR

CLUTCH

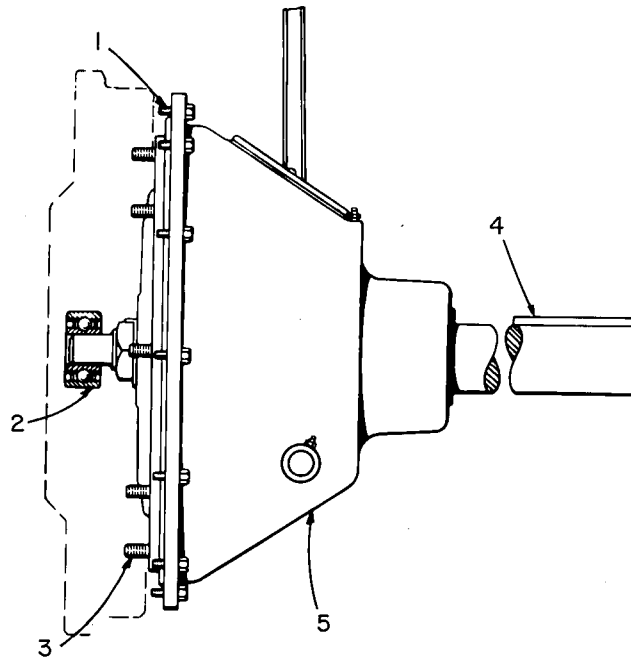
FOR USE WITH SAE #1 FLYWHEEL, 132-2104-PAGE 136
AN ATTACHMENT

SMCS-1165

i00639205

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0T-0320	12	BOLT (7/16-14X1.25IN)						
	2	1	6V-0455	1	BALL BEARING						
	3	1	0S-1595	8	BOLT (1/2-13X1.25IN)						
	4	1	6B-8575	1	KEY						
Y	5	1	3N-9097	1	CLUTCH GP						28

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00205792

BASIC ENGINE

4P-3074 POWER TAKE-OFF GP-REAR

CLUTCH

FOR USE WITH SAE #1 FLYWHEEL, 132-2104-PAGE 136. CANNOT BE USED WITH REAR STUB SHAFT

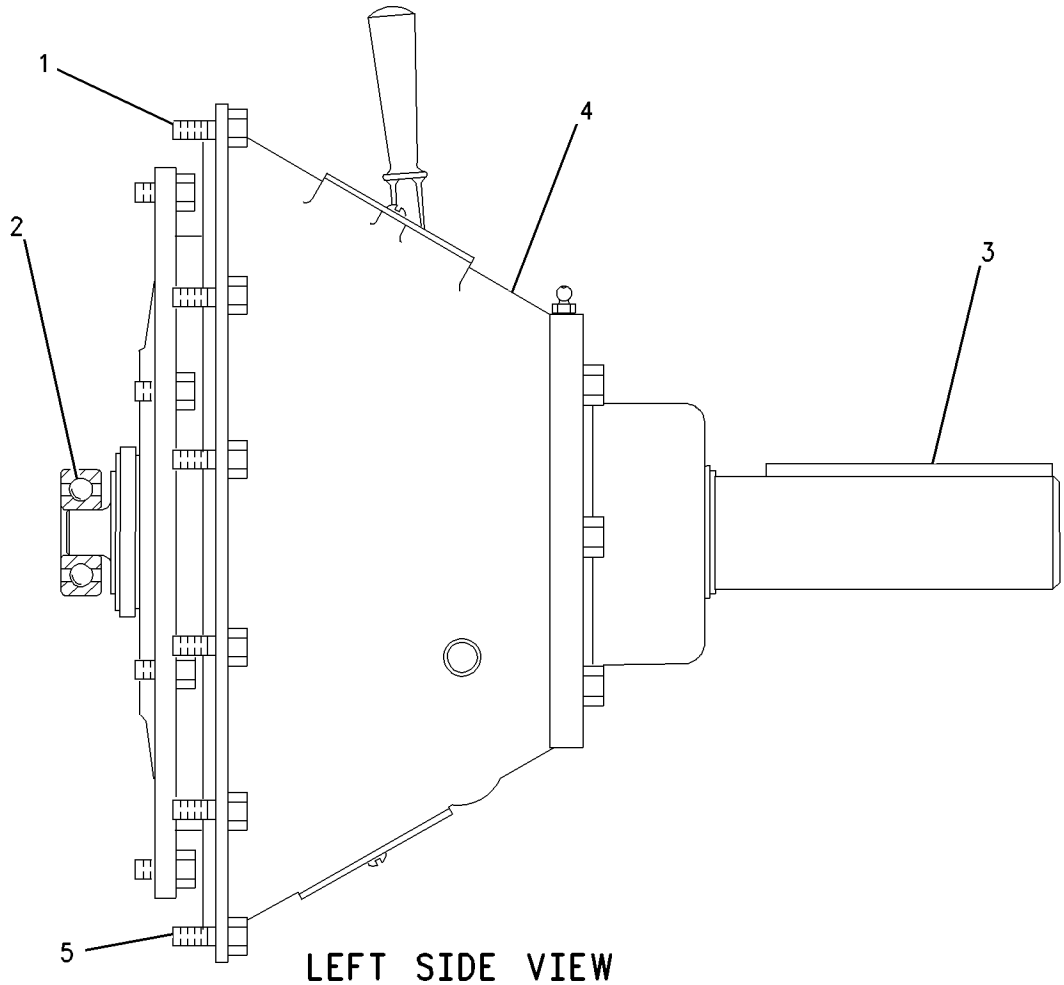
AN ATTACHMENT

SMCS-1165

i01509984

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7B-3235	8	BOLT (1/2-13X1.375 IN)						
	2	1	6V-0455	1	BALL BEARING						
	3	1	7F-8896	1	KEY						
Y	4	1	4P-3073	1	CLUTCH GP						32
	5	1	3H-5368	12	BOLT (7/16-14X1.375IN)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00784075

BASIC ENGINE

4W-2651 POWER TAKE-OFF GP-REAR

REAR CLUTCH

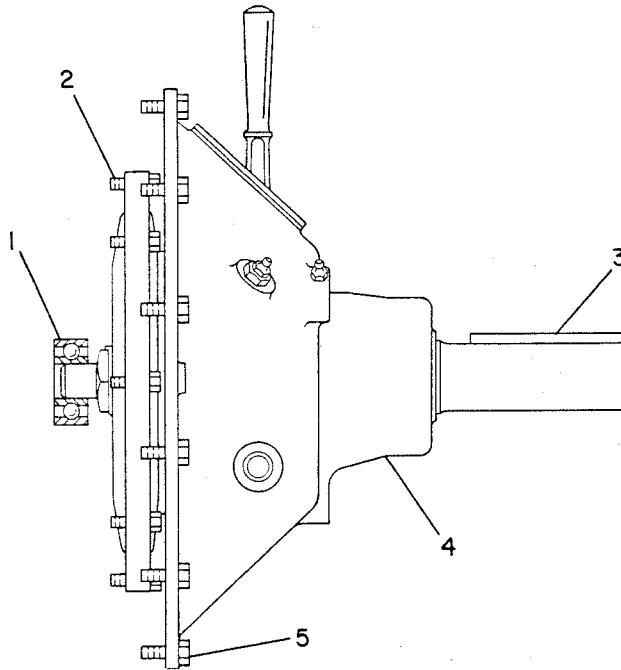
FOR USE WITH SAE 2 FLYWHEEL HOUSING & #306 PILOT BRG. BORE, 117-5118-PAGE 133
AN ATTACHMENT

SMCS-1165

i00637173

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-0898	1	BALL BEARING						
	2	1	0S-1591	8	BOLT (3/8-16X1.5IN)						
	3	1	4L-4866	1	KEY-SQUARE						
Y	4	1	4W-2650	1	CLUTCH GP						34
	5	1	8T-2502	12	BOLT (3/8-16X1.13IN)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00164610

BASIC ENGINE

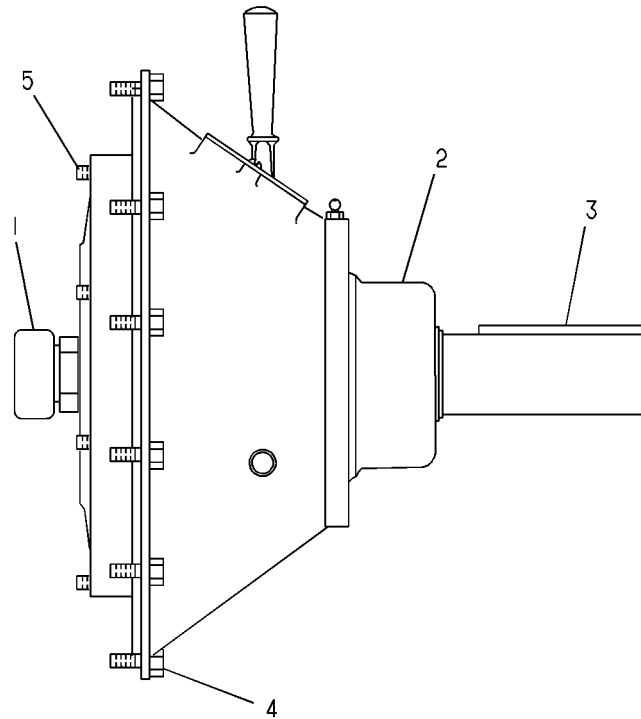
6I-0415 POWER TAKE-OFF GP-REAR FOR USE WITH SAE NO. 2 FLYWHEEL HOUSING, 117-5118-PAGE 133 AN ATTACHMENT

SMCS-1165

i00638778

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-0898	1	BALL BEARING						
Y	2	1	4P-2270	1	CLUTCH GP						30
	3	1	4L-4866	1	KEY-SQUARE						
	4	1	9B-7237	12	BOLT (3/8-16X1.25IN)						
	5	1	0L-1143	8	BOLT (3/8-16X2.5IN)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00155101

BASIC ENGINE

175-3223 PULLEY AS-IDLER

S/N: BEJ1-188

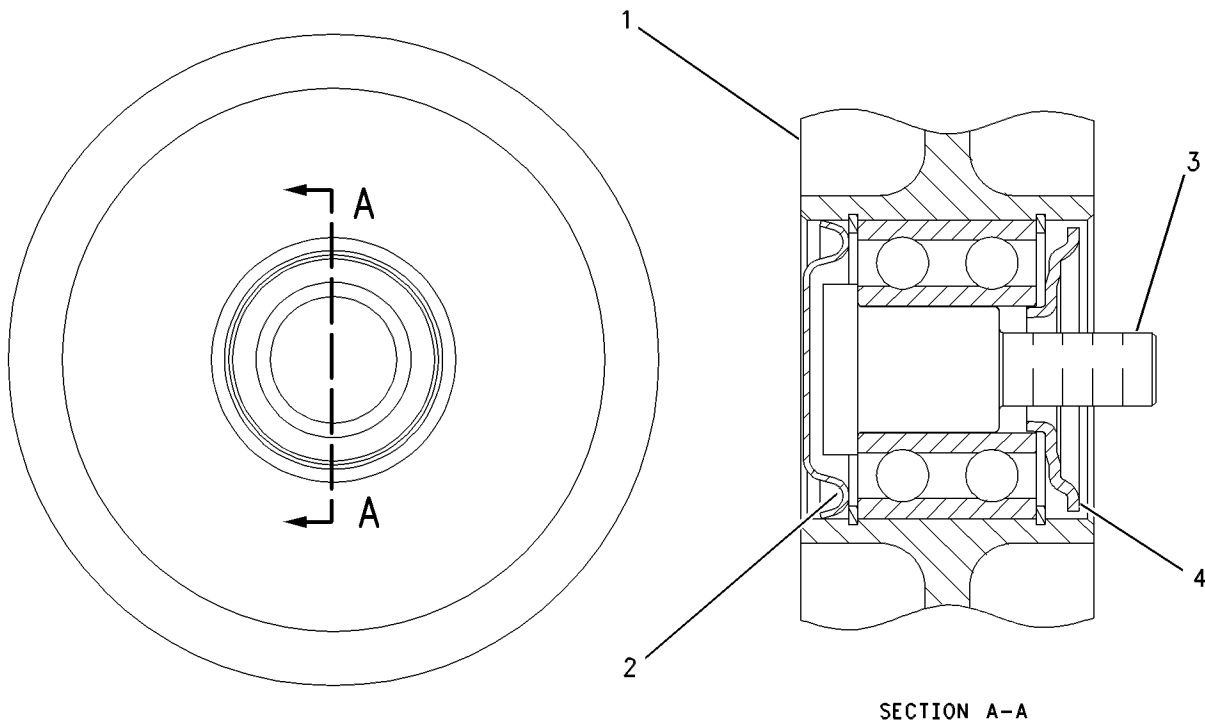
PART OF 124-7786 BELT TENSIONER GP, 201-9771 PULLEY GP
ALSO AN ATTACHMENT

SMCS-1358

i01571362

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	124-7792	1	PULLEY AS-IDLER						
	2	1	124-7791	1	COVER-DUST						
M	3	1	124-7790	1	BOLT-SPECIAL (M10X1.5X40MM)						
	4	1	145-2901	1	COVER-DUST (REAR)						

M-METRIC PART



GRAPHIC #1

g00614102

MEMORANDA

BASIC ENGINE

201-9771 PULLEY GP

S/N: BEJ1-188

ALSO AN ATTACHMENT

SMCS-1205, 1359, 1384, 1425

i01530951

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-8489	1	FITTING-GREASE						
	2	1	6I-9235	1	BEARING AS-ROLLER						
	3	1	100-4026	1	RETAINER-BEARING						
	4	1	111-7238	1	PLATE						
	5	1	123-0856	1	SHAFT-FAN						
	6	1	129-5096	1	PULLEY-ALTERNATOR						
	7	1	134-5690	1	BRACKET-FAN BEARING						
	8	1	135-2142	1	BELT TIGHTENER						
Y	9	1	175-3223	1	PULLEY AS-IDLER						178
	10	1	192-3837	1	PULLEY-FAN						
	11	1	171-4679	1	BELT						
	12	1	5M-6509	1	SEAL-O-RING						
M	13	1	6V-3940	3	BOLT (M8X1.25X25MM)						
M	14	1	6V-5217	10	BOLT (M8X1.25X20MM)						
M	15	1	6V-5219	2	BOLT (M8X1.25X40MM)						
	16	1	6V-5839	1	WASHER (11X21X2.5MM THK)						
M	17	1	8T-0643	1	BOLT (M10X1.50X80MM)						
	18	1	9M-1974	7	WASHER-HARD (8.8X16X2MM THK)						

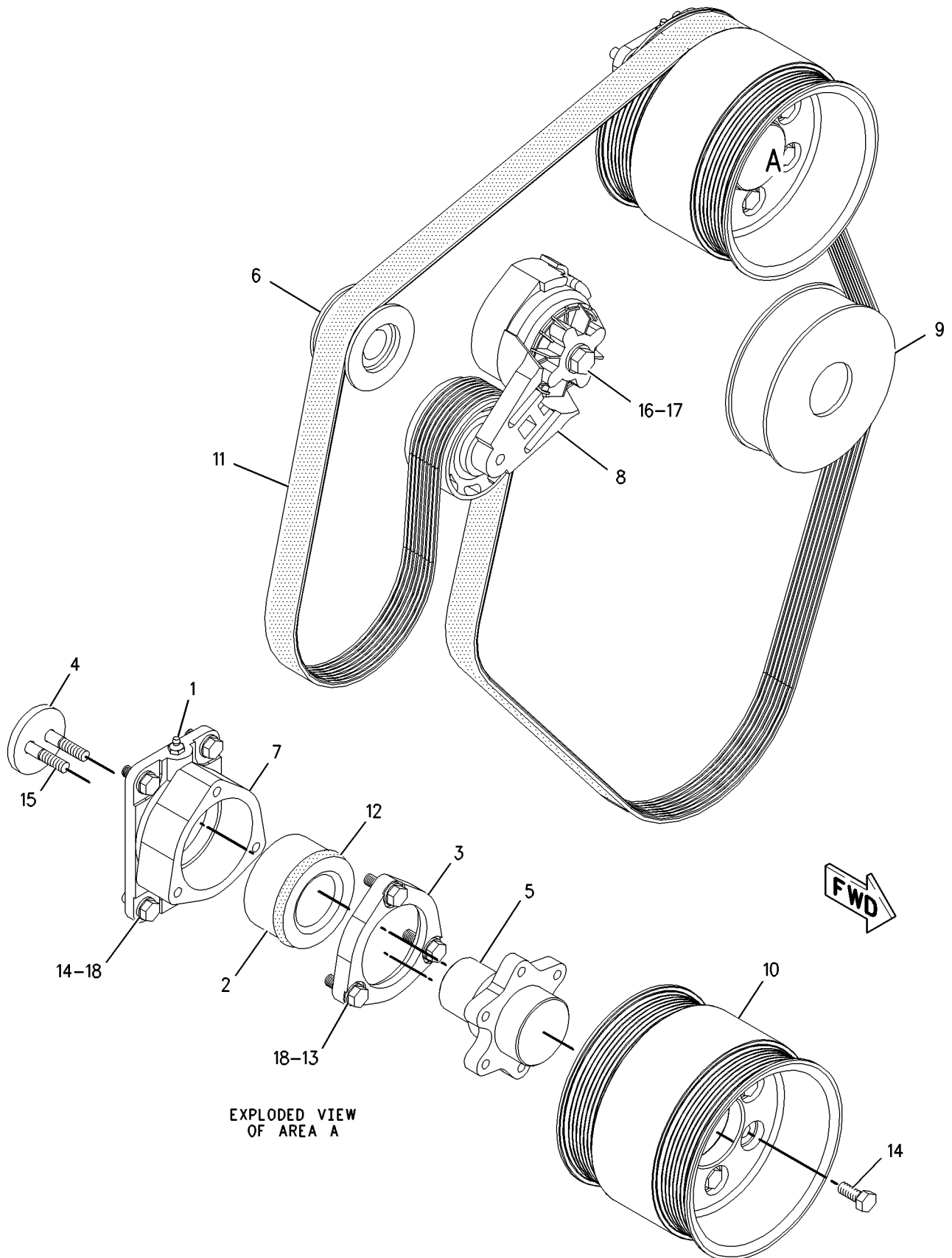
M - METRIC PART

Y - SEPARATE ILLUSTRATION

BASIC ENGINE

201-9771 PULLEY GP (contd.)

i01530951



GRAPHIC #1

g00794874

BASIC ENGINE

201-9771 PULLEY GP

S/N: BEJ189-UP

ALSO AN ATTACHMENT

SMCS-1205, 1359, 1384, 1425

i01569586

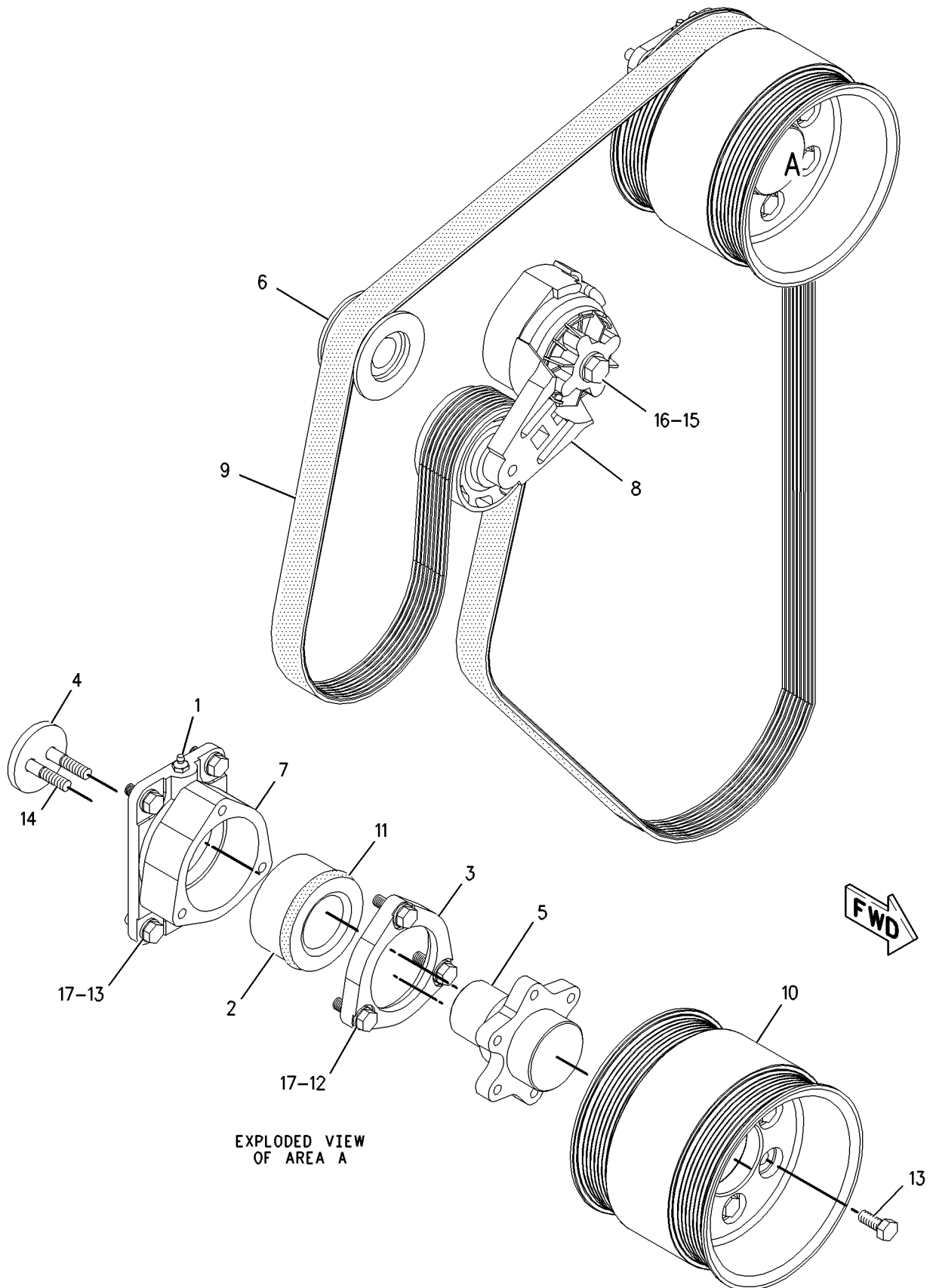
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-8489	1	FITTING-GREASE (1/8-27 THD)						
	2	1	6I-9235	1	BEARING AS-ROLLER						
	3	1	100-4026	1	RETAINER-BEARING						
	4	1	111-7238	1	PLATE						
	5	1	123-0856	1	SHAFT-FAN						
	6	1	129-5096	1	PULLEY-ALTERNATOR						
	7	1	134-5690	1	BRACKET-FAN BEARING						
	8	1	135-2142	1	BELT TIGHTENER						
	9	1	172-2245	1	BELT-RIBBED						
	10	1	192-3837	1	PULLEY-FAN						
	11	1	5M-6509	1	SEAL-O-RING						
M	12	1	6V-3940	3	BOLT (M8X1.25X25MM)						
M	13	1	6V-5217	10	BOLT (M8X1.25X20MM)						
M	14	1	6V-5219	2	BOLT (M8X1.25X40MM)						
	15	1	6V-5839	1	WASHER (11X21X2.5MM THK)						
M	16	1	8T-0643	1	BOLT (M10X1.50X80MM)						
	17	1	9M-1974	7	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART

BASIC ENGINE

201-9771 PULLEY GP (contd.)

i01569586



EXPLODED VIEW
OF AREA A

GRAPHIC #1

g00817065

BASIC ENGINE

118-2090 PULLEY GP-CRANKSHAFT

PROVIDES A PULLEY WITH 8 GROOVE POLY-V BELT

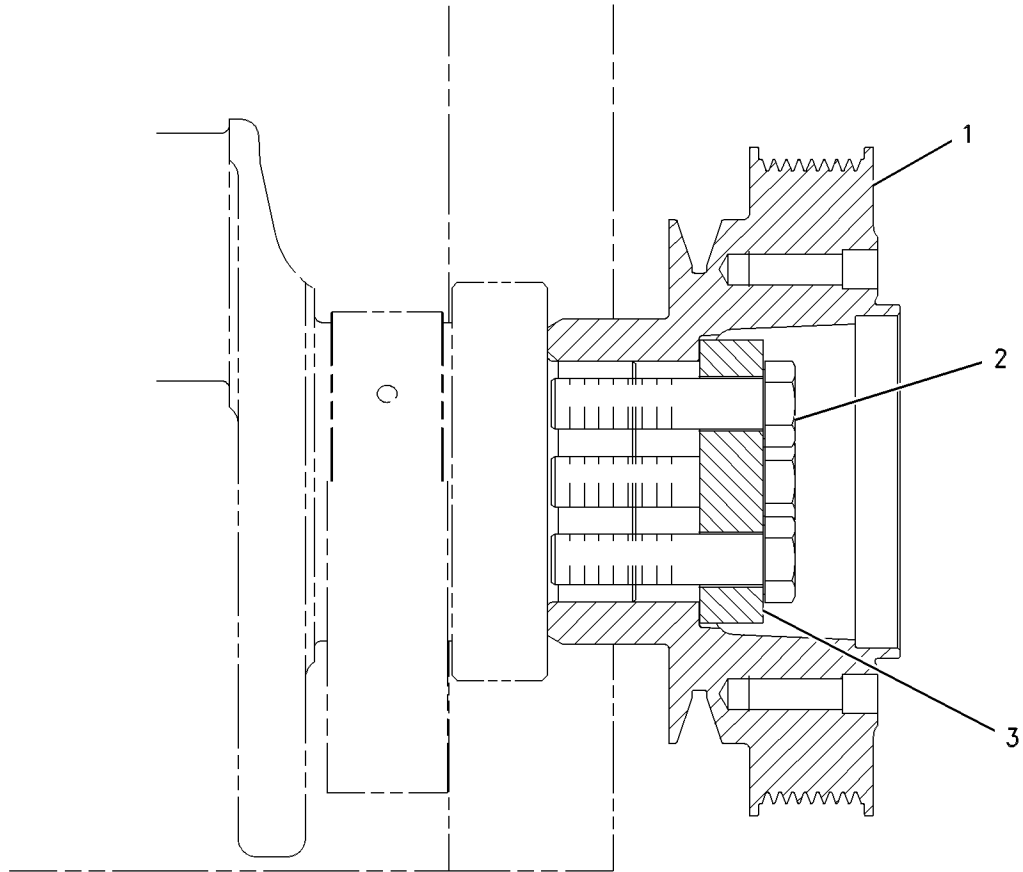
FOR USE WITH 165-6934-PAGE 71, 4P-4451-PAGE 70. CANNOT BE USED WITH SHORT FRONT
END
AN ATTACHMENT

SMCS-1205

i01582277

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	118-2089	1	PULLEY						
M	2	1	8T-3666	4	BOLT (M14X60MM)						
	3	1	2W-7381	1	WASHER						

M-METRIC PART



GRAPHIC #1

g00560468

BASIC ENGINE

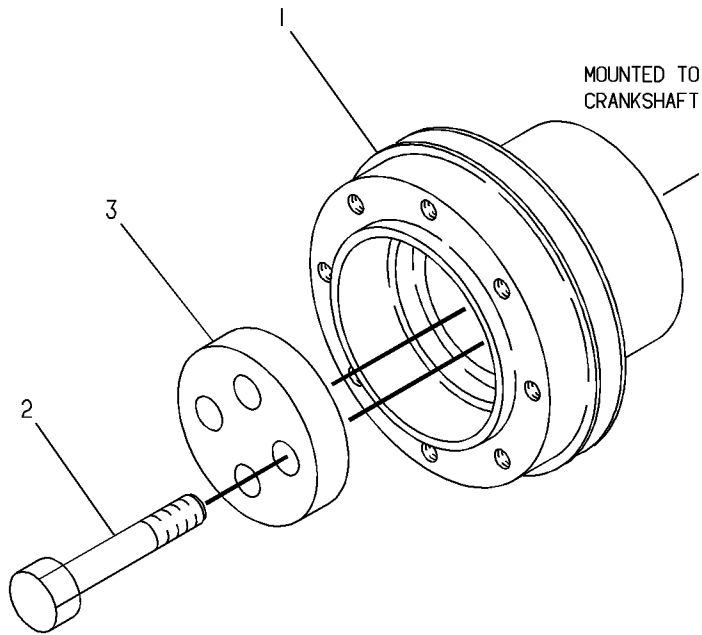
122-8931 PULLEY GP-CRANKSHAFT FOR USE WITH 8 GROOVE POLY-V OR V-GROOVE ACCESSORY DRIVE PULLEY AN ATTACHMENT

SMCS-1205

i01457419

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-3773	1	PULLEY - CRANKSHAFT						
M	2	1	8T-3666	4	BOLT (M14X60MM)						
	3	1	2W-7381	1	WASHER - CLAMP						

M-METRIC PART



GRAPHIC #1

g00108307

BASIC ENGINE

197-0648 PULLEY GP - CRANKSHAFT

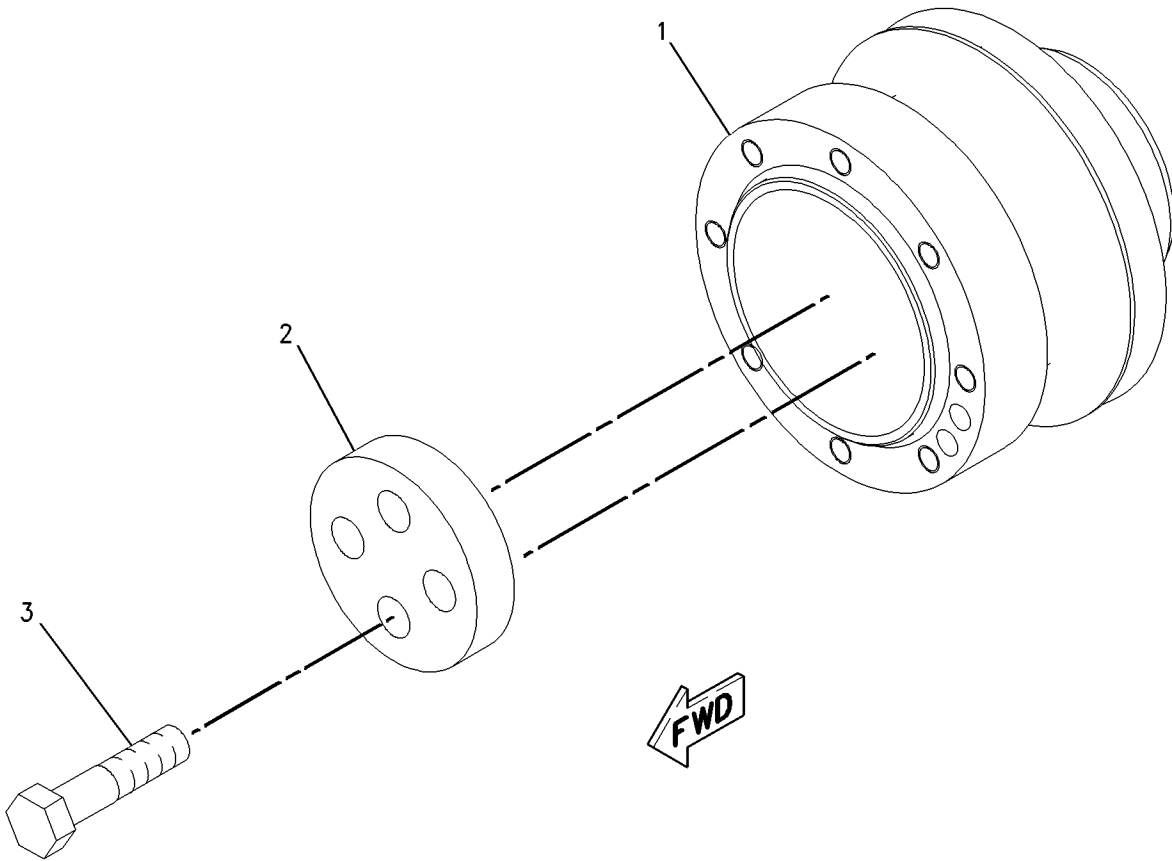
FOR USE WITH VEE BELT FRONT DRIVE DESIGN
AN ATTACHMENT

SMCS - 1205

i01448312

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-7381	1	WASHER - CLAMP						
	2	1	197-0647	1	PULLEY - CRANKSHAFT						
M	3	1	8T-3666	4	BOLT (M14X60MM)						

M-METRIC PART



GRAPHIC #1

g00758729

BASIC ENGINE

201-8650 PULLEY GP-CRANKSHAFT

0.83 FAN DRIVE RATIO

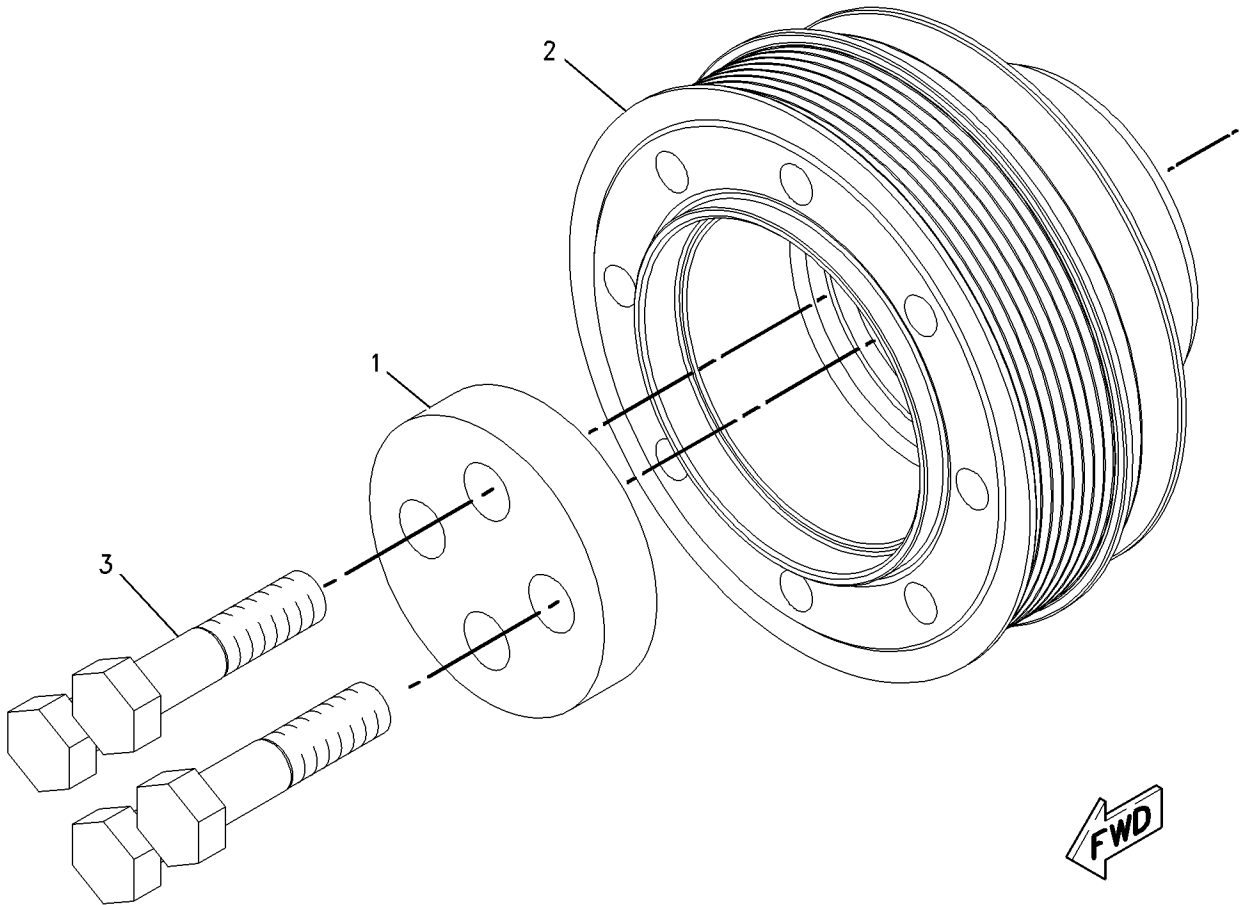
FOR USE WITH POLY VEE CRANKSHAFT PULLEY BELT, VEE BELT WATER PUMP
AN ATTACHMENT

SMCS-1205

i01465416

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-7381	1	WASHER-CLAMP						
	2	1	201-8651	1	PULLEY						
M	3	1	8T-3666	4	BOLT (M14X60MM)						

M-METRIC PART



GRAPHIC #1

g00765639

BASIC ENGINE

198-7627 PULLEY GP-FAN

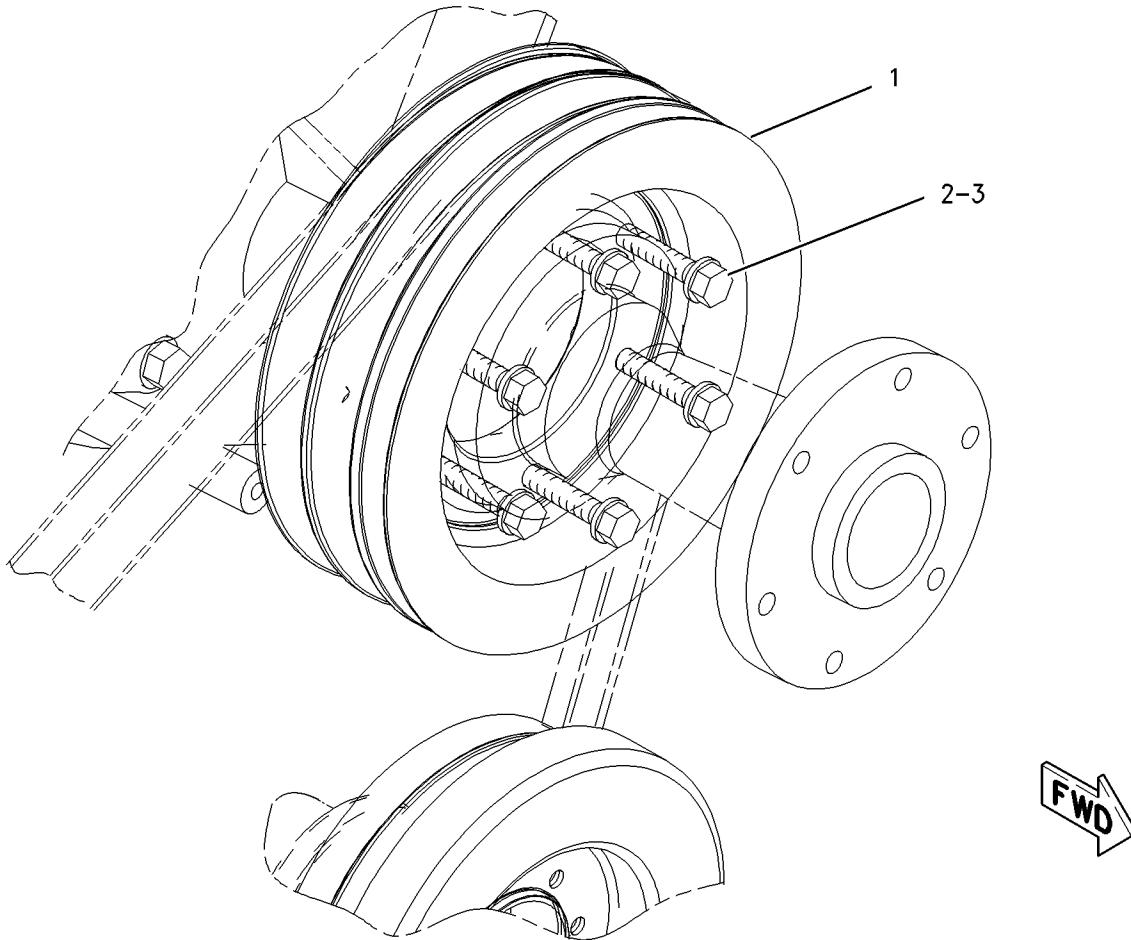
230MM DIA

FOR USE WITH 1.2:1 RATIO WHEN USED WITH, 194-9459-PAGE 67
AN ATTACHMENT

SMCS-1359

i01432833

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	194-9464	1	PULLEY-FAN						
	2	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5MM THK)						
	3	1	8T-9101	6	BOLT (3/8-16X2.75 IN)						



GRAPHIC #1

g00751265

BASIC ENGINE

198-7628 PULLEY GP-FAN

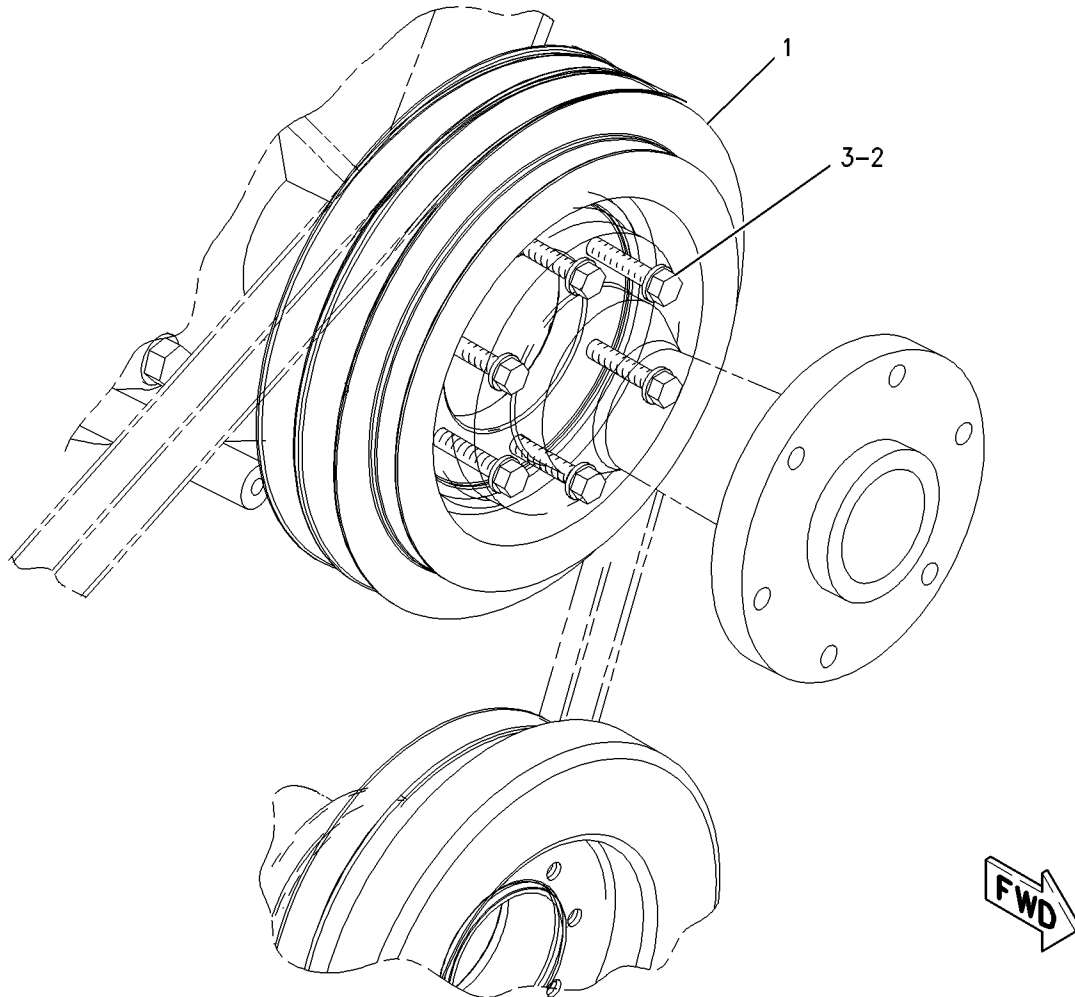
275MM DIA

FOR USE WITH 1:1 RATIO WHEN USED WITH, 194-9459-PAGE 67
AN ATTACHMENT

SMCS-1359

i01432828

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	194-9465	1	PULLEY-FAN						
	2	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5MM THK)						
	3	1	8T-9101	6	BOLT (3/8-16X2.75 IN)						



GRAPHIC #1

g00751236

BASIC ENGINE

143-7018 PULLEY GP-FAN DRIVE

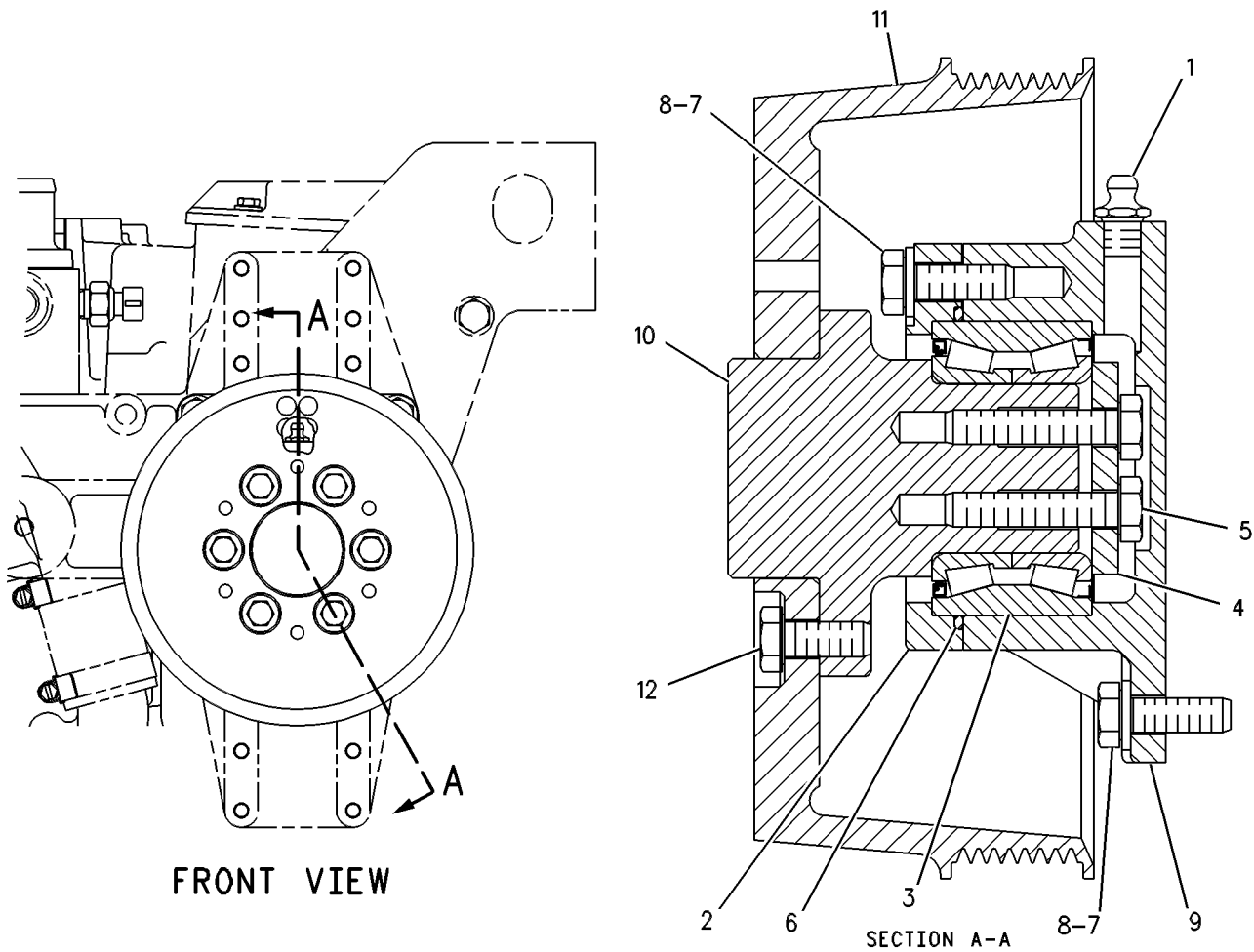
FOR USE WITH 50.8 MM PILOT, 142-7107-PAGE 156, 120-6661-PAGE 143
AN ATTACHMENT

SMCS-1359

i01517068

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3B-8489	1	FITTING-GREASE						
	2	1	100-4026	1	RETAINER-BEARING						
	3	1	6I-9235	1	BEARING AS-ROLLER						
	4	1	111-7238	1	PLATE						
M	5	1	6V-5219	2	BOLT (M8X1.25X40MM)						
	6	1	5M-6509	1	SEAL-O-RING						
M	7	1	6V-3940	7	BOLT (M8X1.25X25MM)						
	8	1	9M-1974	7	WASHER-HARD (8.8X16X2MM THK)						
	9	1	134-5690	1	BRACKET-FAN BEARING						
	10	1	123-0856	1	SHAFT-FAN						
	11	1	125-3722	1	PULLEY-FAN (8 GROOVE)						
M	12	1	8T-4189	6	BOLT (M8X1.25X20MM)						

M-METRIC PART



GRAPHIC #1

g00288083

BASIC ENGINE

2W-8494 PULLEY-ALTERNATOR

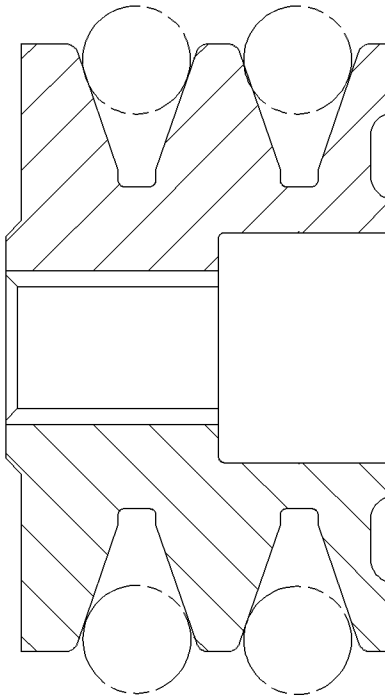
93.68 MM DIAMETER. V-BELT 2 GROOVE

AN ATTACHMENT

SMCS-1425

i01605488

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)						



GRAPHIC #1

g00324492

BASIC ENGINE

100-2854 PULLEY-ALTERNATOR

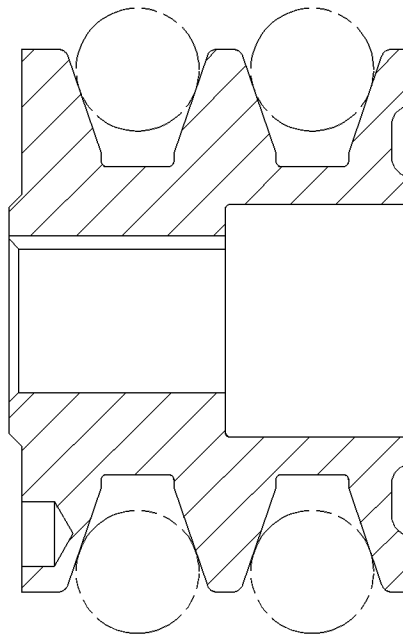
84 MM DIAMETER. V-BELT 2 GROOVE

AN ATTACHMENT

SMCS-1425

i01209616

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)						



GRAPHIC #1

g00324491

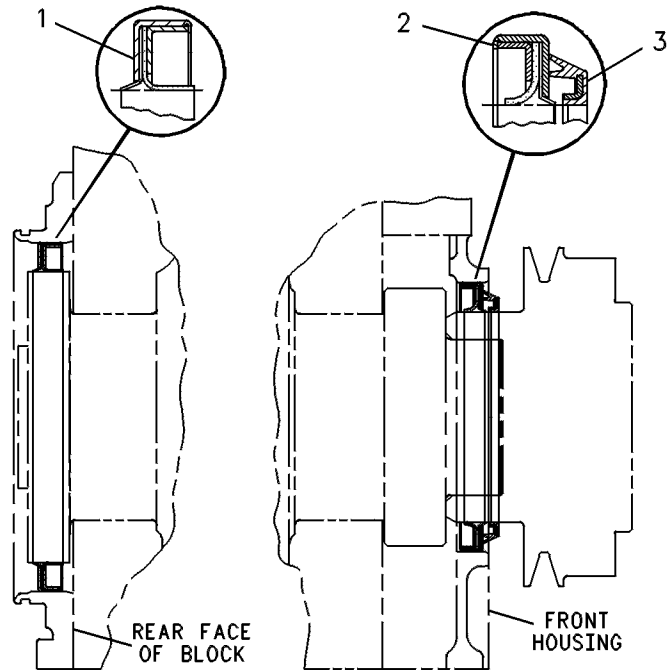
BASIC ENGINE

115-4203 SEAL GP - CRANKSHAFT

SMCS-1160, 1161

i00785205

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-4109	1	SEAL GP - CRANKSHAFT						
	2	1	119-2921	1	SEAL GP - CRANKSHAFT						
	3	1	4R-9999	1	EXCLUDER - CRANKSHAFT SEAL						



GRAPHIC #1

g00131231

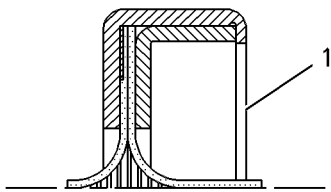
BASIC ENGINE

115-4210 SEAL GP - CRANKSHAFT AN ATTACHMENT

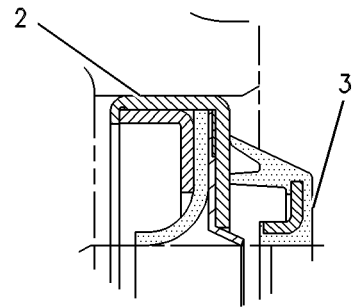
SMCS-1160, 1161

i00767748

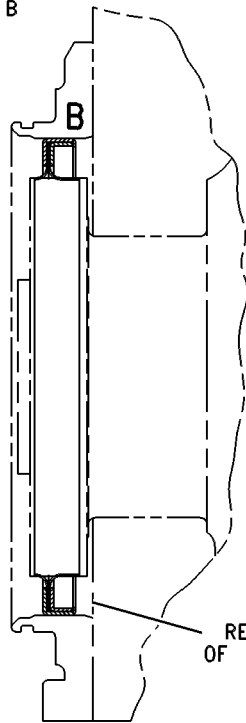
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-4120	1	SEAL GP - CRANKSHAFT						
	2	1	119-2921	1	SEAL GP - CRANKSHAFT						
	3	1	4R-9999	1	EXCLUDER - CRANKSHAFT SEAL						



VIEW OF
AREA B

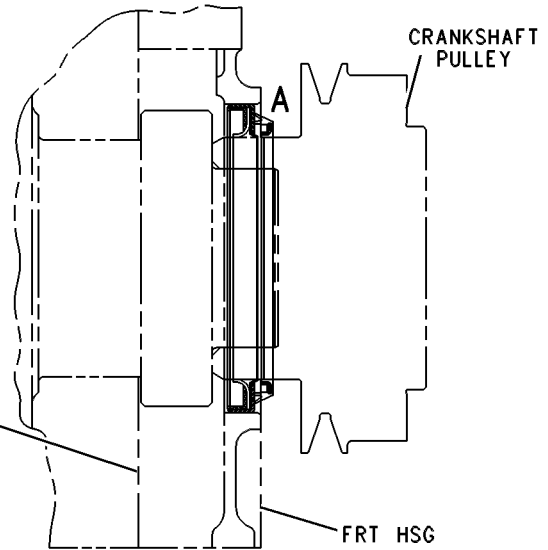


VIEW OF
AREA A



REAR FACE
OF CYL BLOCK

FRONT FACE
OF CYL BLOCK



FRT HSG

CRANKSHAFT
PULLEY

RIGHT SIDE VIEW

GRAPHIC #1

g00109240

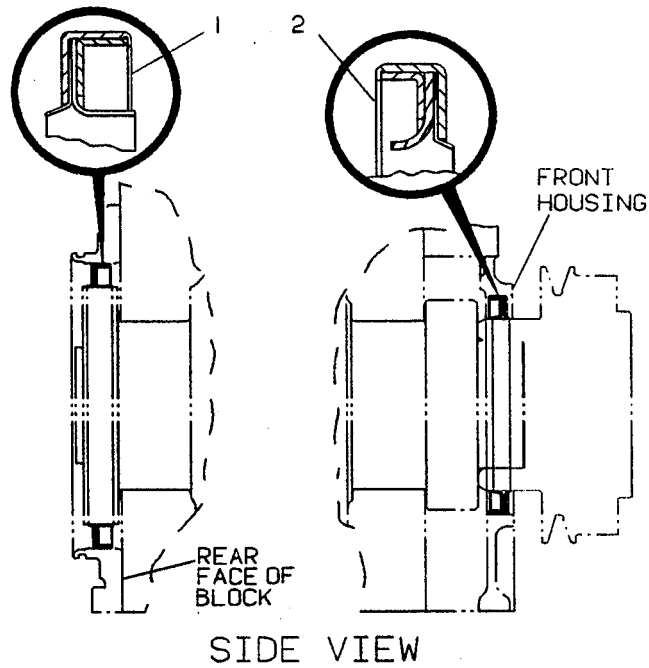
BASIC ENGINE

122-8929 SEAL GP - CRANKSHAFT FOR USE WITH DRY FLYWHEEL HOUSING AN ATTACHMENT

SMCS-1160, 1161

i01248964

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-3571	1	SEAL GP - CRANKSHAFT						
	2	1	119-2921	1	SEAL GP - CRANKSHAFT						



GRAPHIC #1

g00125389

BASIC ENGINE

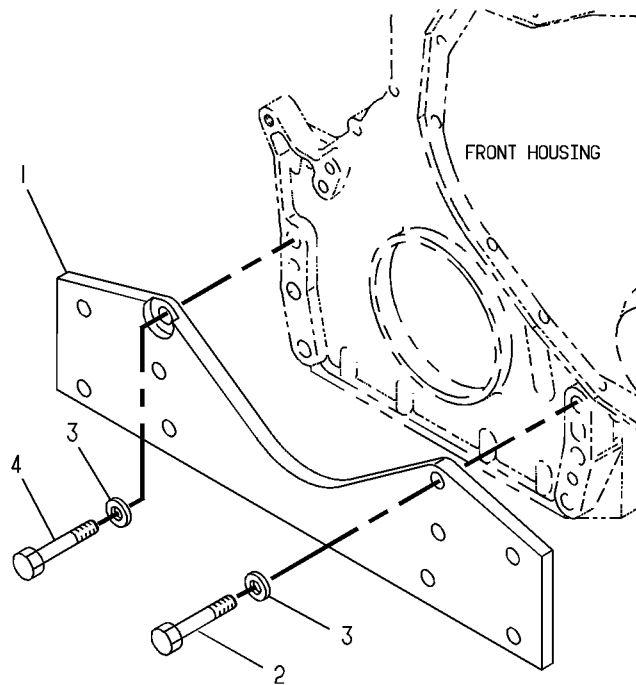
7C-1687 SUPPORT GP-ENGINE AN ATTACHMENT

SMCS-1154

i00638803

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-0907	1	PLATE						
M	2	1	6V-5696	5	BOLT (M12X1.75X80MM)						
	3	1	5P-8245	6	WASHER (3MM THK)						
M	4	1	6V-8336	1	BOLT (M12X1.75X70MM)						

M-METRIC PART



GRAPHIC #1

g00187557

BASIC ENGINE

7C-6996 SUPPORT GP-ENGINE

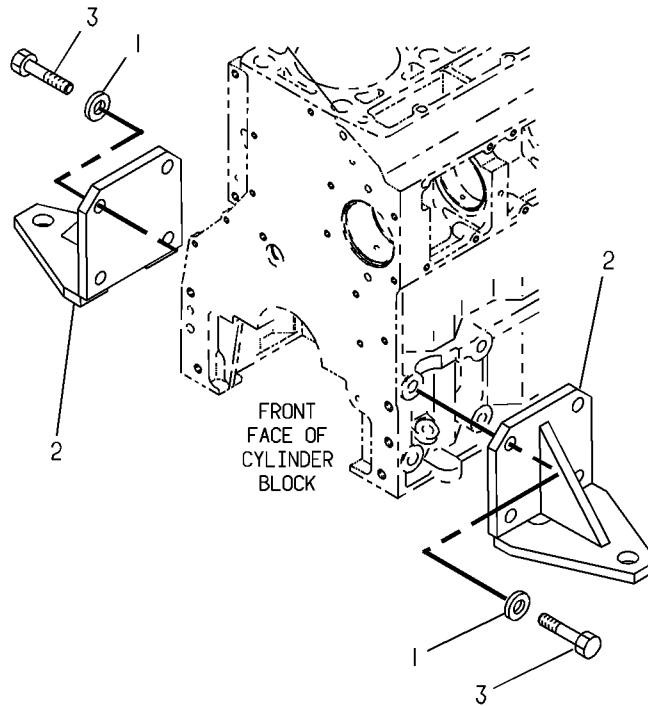
FOR USE WITH APPLICATIONS REQUIRING FRONT PEDESTAL SUPPORTS AT SIDE OF BLOCK.
CANNOT BE USED WITH INSTALLED RADIATOR
AN ATTACHMENT

SMCS-1154

i00638842

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8246	8	WASHER - HARD						
	2	1	7C-9917	2	SUPPORT AS-ENGINE						
M	3	1	6V-8550	8	BOLT						

M-METRIC PART



GRAPHIC #1

g00194677

BASIC ENGINE

7E-1717 SUPPORT GP-ENGINE

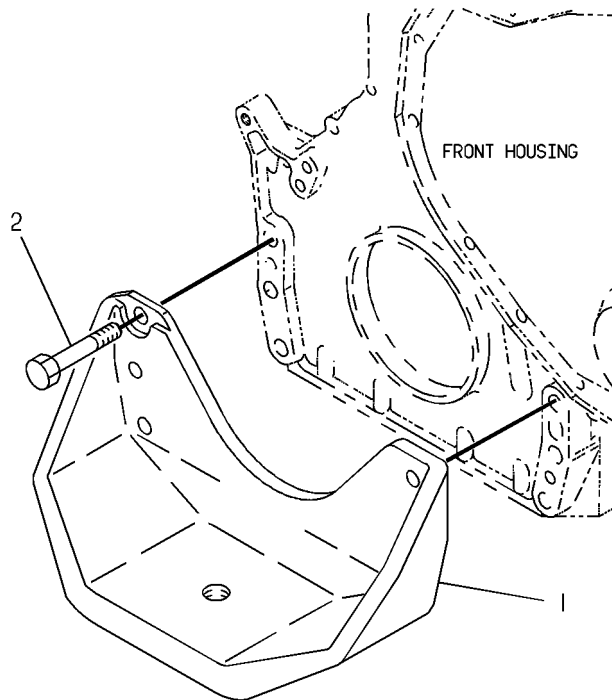
FOR USE WITH MOBILE ENGINES WHICH REQUIRE SINGLE POINT FRONT MOUNTING. CANNOT BE
USED WITH INSTALLED RADIATOR
AN ATTACHMENT

SMCS-1154

i00638878

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1718	1	SUPPORT						
M	2	1	8T-6868	6	BOLT (M12X1.75X80MM)						

M-METRIC PART



GRAPHIC #1

g00195051

BASIC ENGINE

7E-2770 SUPPORT GP-ENGINE

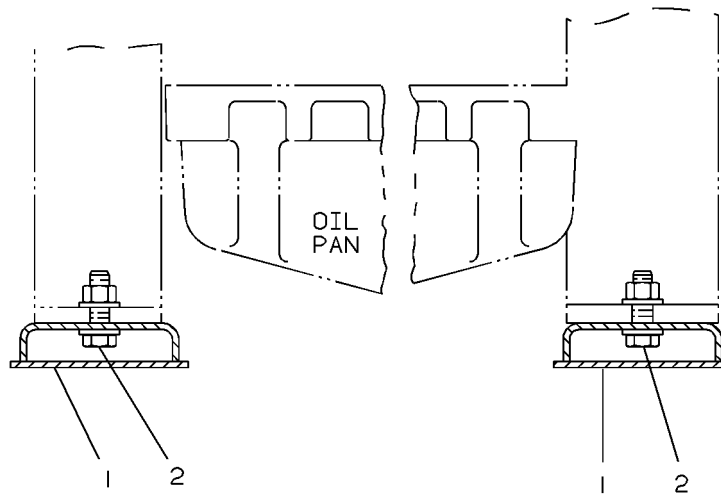
FOR USE WITH FRONT & REAR SUPPORT
AN ATTACHMENT

SMCS-1154

i00638894

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-2106	2	SUPPORT AS						
M	2	1	6V-8197	4	BOLT (M12X1.75X40MM)						
		1	5P-8245	8	WASHER (3MM THK)						
M		1	6V-8149	4	NUT (M12X1.75 THD)						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00203023

BASIC ENGINE

132-2022 SUPPORT GP-ENGINE

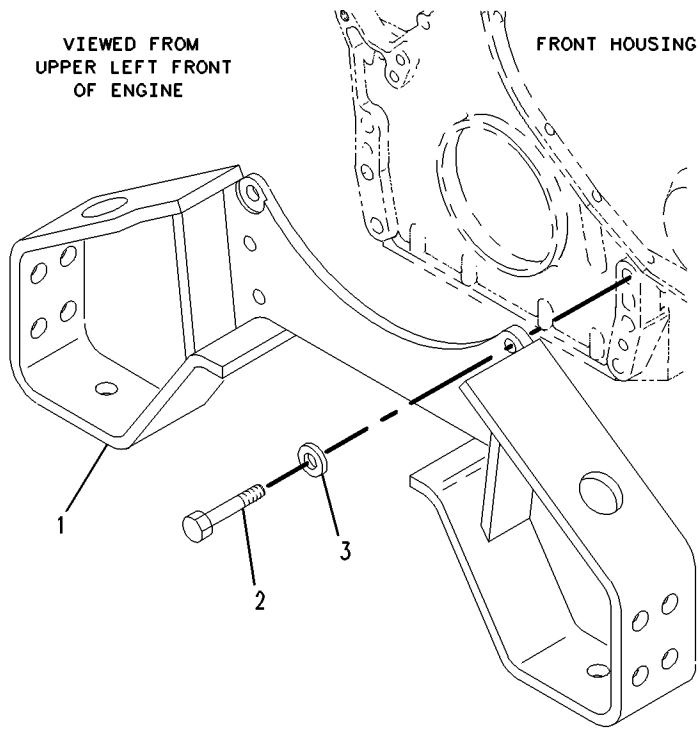
CANNOT BE USED WITH RADIATOR PACKAGES
AN ATTACHMENT

SMCS-1154

i00639831

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1753	1	SUPPORT AS-FRONT						
M	2	1	8T-6868	6	BOLT (M12X1.75X80MM)						
	3	1	8T-4223	6	WASHER-HARD (3MM THK)						

M-METRIC PART



GRAPHIC #1

g00203061

BASIC ENGINE

146-9396 SUPPORT GP-ENGINE

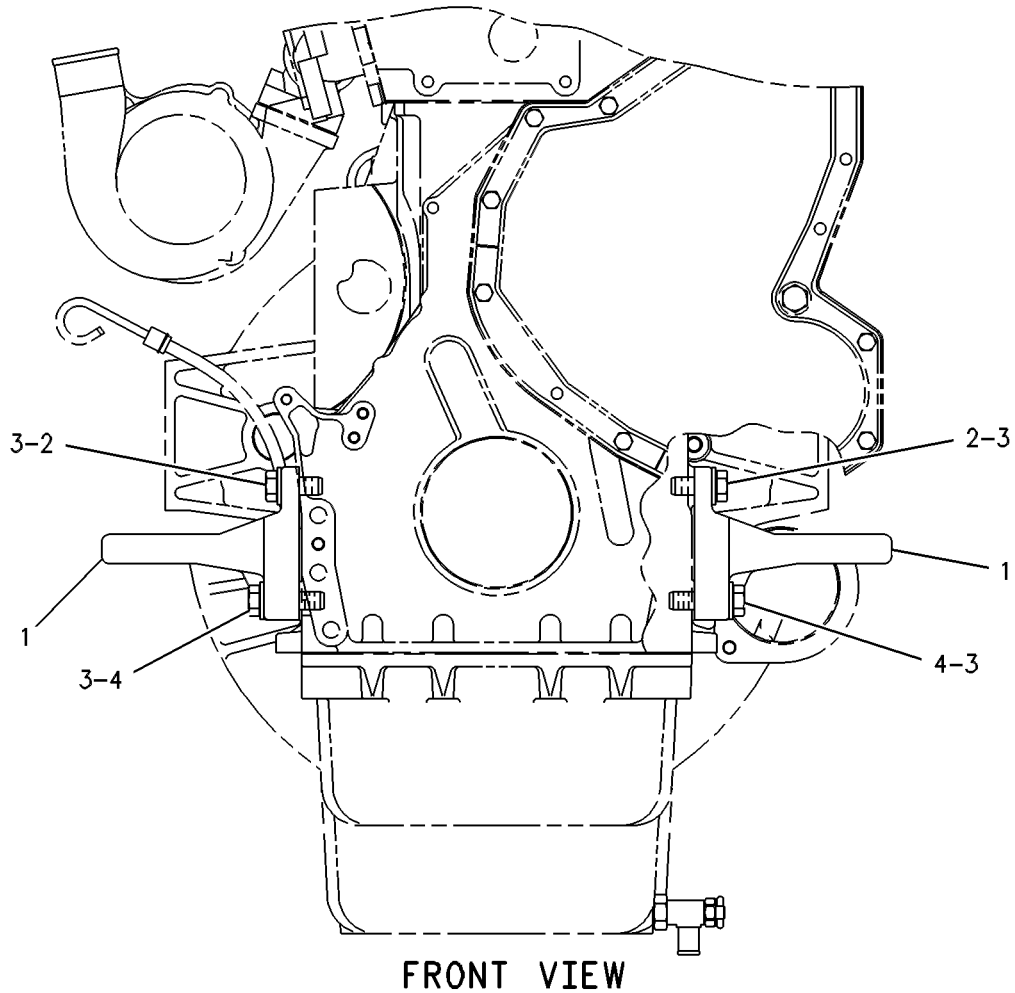
SIDE MOUNTED
ALSO AN ATTACHMENT

SMCS-1154

i01457466

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	128-7719	2	SUPPORT-ENGINE						
M	2	1	6V-8550	4	BOLT (M14X2X35MM)						
	3	1	5P-8246	8	WASHER-HARD (15.5X29X3MM THK)						
M	4	1	6V-5685	4	BOLT (M14X2X50MM)						

M-METRIC PART



GRAPHIC #1

g00284584

BASIC ENGINE

197-0643 SUPPORT GP-ENGINE

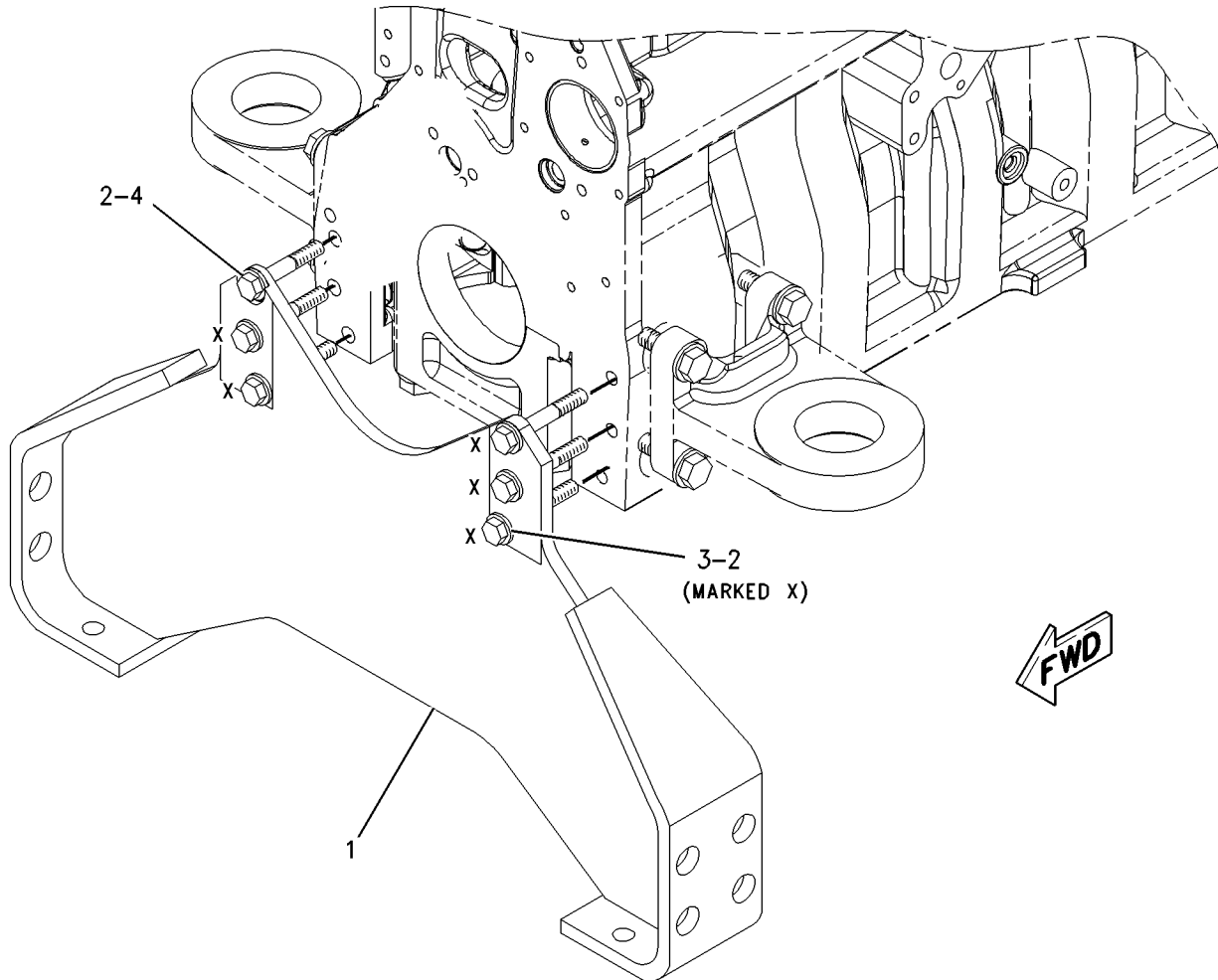
PROVIDES A WIDE FRONT SUPPORT FOR STATIONARY APPLICATIONS
AN ATTACHMENT

SMCS-1154

i01584052

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	197-0642	1	SUPPORT AS-FRONT						
	2	1	5P-8245	6	WASHER-HARD (13.5X25.5X3MM THK)						
M	3	1	6V-5696	5	BOLT (M12X1.75X80MM)						
M	4	1	6V-8336	1	BOLT (M12X1.75X70MM)						

M-METRIC PART



GRAPHIC #1

g00823046

BASIC ENGINE

2P - 1388 V-BELT SET

1626MM (64IN) LG

AN ATTACHMENT

SMCS - 1357

i01528764

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 2 BELTS	

BASIC ENGINE

2W-4547 V-BELT SET

1702 MM (67 IN) LG

AN ATTACHMENT

SMCS-1357

i01239498

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 2 BELTS	

BASIC ENGINE

2W-6766 V-BELT SET

2235 MM (88 IN) LG

AN ATTACHMENT

SMCS-1357

i01463675

NOTE	PART NUMBER	QTY	PART NAME	SEE
			1 2 3 4 5 6 (PRODUCT LEVEL)	PAGE
			INCLUDES 2 BELTS	

BASIC ENGINE

2W-8951 V-BELT SET

2210 MM (87IN) LG

AN ATTACHMENT

SMCS-1357

i01025721

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
CONSISTS OF 2 BELTS				

BASIC ENGINE

3P-0071 V-BELT SET SAE EFFECTIVE LENGTH-1765 MM AN ATTACHMENT

SMCS-1357

i01463677

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL) (INCLUDES 2 BELTS)	

BASIC ENGINE

3P-0098 V-BELT SET

1867 MM (73.5 IN) LG

AN ATTACHMENT

SMCS-1357

i01233587

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 2 BELTS	

BASIC ENGINE

4N-3587 V-BELT SET

1676 MM (66 IN) LG

AN ATTACHMENT

SMCS-1357

i01354875

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 2 BELTS	

BASIC ENGINE

4S-9791 V-BELT SET

2108 MM (83 IN) LG

AN ATTACHMENT

SMCS-1357

i01237103

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 3 BELTS	

BASIC ENGINE

5L-5014 V-BELT SET

1968 MM (77.5 IN) LG

AN ATTACHMENT

SMCS-1357

i01237304

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

5L-5015 V-BELT SET

FAN DRIVE
AN ATTACHMENT

SMCS-1357

i01522205

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

5R-7276 V-BELT SET

2019 MM (79.5 IN) LG

AN ATTACHMENT

SMCS-1357

i01239502

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 2 BELTS	

BASIC ENGINE

6L-1987 V-BELT SET

2083 MM (82 IN) LG

AN ATTACHMENT

SMCS-1357

i01237322

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7C-3559 V-BELT SET

2184 MM (86 IN) LG

AN ATTACHMENT

SMCS-1357

i01237344

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7L-7099 V-BELT SET

1689 MM (66.5 IN) LG

AN ATTACHMENT

SMCS-1357

i01239543

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 2 BELTS	

BASIC ENGINE

7M-0185 V-BELT SET

1880 MM (74 IN) LG

AN ATTACHMENT

SMCS-1357

i01237348

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-0981 V-BELT SET

1651 MM (65 IN) LG

AN ATTACHMENT

SMCS-1357

i01239550

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			INCLUDES 2 BELTS	

BASIC ENGINE

7M-4702 V-BELT SET

1854 MM (73 IN) LG

AN ATTACHMENT

SMCS-1357

i01237354

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4703 V-BELT SET

1943 MM (76.5 IN) LG

AN ATTACHMENT

SMCS-1357

i01237358

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4705 V-BELT SET

1842 MM (72.5 IN) LG

FOR USE WITH 1:1 RATIO PULLEY AND 13IN FAN HEIGHT
AN ATTACHMENT

SMCS-1357

i01237363

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
(INCLUDES 2 BELTS)				

BASIC ENGINE

7M-4706 V-BELT SET

1778 MM (70 IN) LG

AN ATTACHMENT

SMCS-1357

i01463729

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4707 V-BELT SET

1803 MM (71 IN) LG

AN ATTACHMENT

SMCS-1357

i01463736

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4710 V-BELT SET

2159 MM (85 IN) LG

AN ATTACHMENT

SMCS-1357

i01463737

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4717 V-BELT SET

1930 MM (76 IN) LG

AN ATTACHMENT

SMCS-1357

i01237371

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4718 V-BELT SET 1956MM (77IN) LG. FAN DRIVE AN ATTACHMENT

SMCS-1357

i01522209

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL) (INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4719 V-BELT SET

1816 MM (71.5 IN) LG

AN ATTACHMENT

SMCS - 1357

i01237375

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

7M-4721 V-BELT SET

1994 MM (78.50) LG

AN ATTACHMENT

SMCS-1357

i01237381

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

8M-0934 V-BELT SET

2007 MM (79 IN) LG

AN ATTACHMENT

SMCS-1357

i01237429

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

8M-8681 V-BELT SET

2057MM (81 IN.) LG

AN ATTACHMENT

SMCS-1357

i01463762

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

8S-1475 V-BELT SET

1918 MM (75.5 IN) LG

AN ATTACHMENT

SMCS-1357

i01237389

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

9M-7221 V-BELT SET

1753 MM (69 IN) LG

AN ATTACHMENT

SMCS-1357

i01463765

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

9M-7801 V-BELT SET

2032 MM (80 IN) LG

AN ATTACHMENT

SMCS-1357

i01237397

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL)	
			(INCLUDES 2 BELTS)	

BASIC ENGINE

206-7828 V-BELT SET 2108MM (83 IN) LG. FAN DRIVE AN ATTACHMENT

SMCS-1357

i01522168

NOTE	PART NUMBER	QTY	PART NAME	SEE PAGE
			1 2 3 4 5 6 (PRODUCT LEVEL) (INCLUDES 2 BELTS)	

BASIC ENGINE

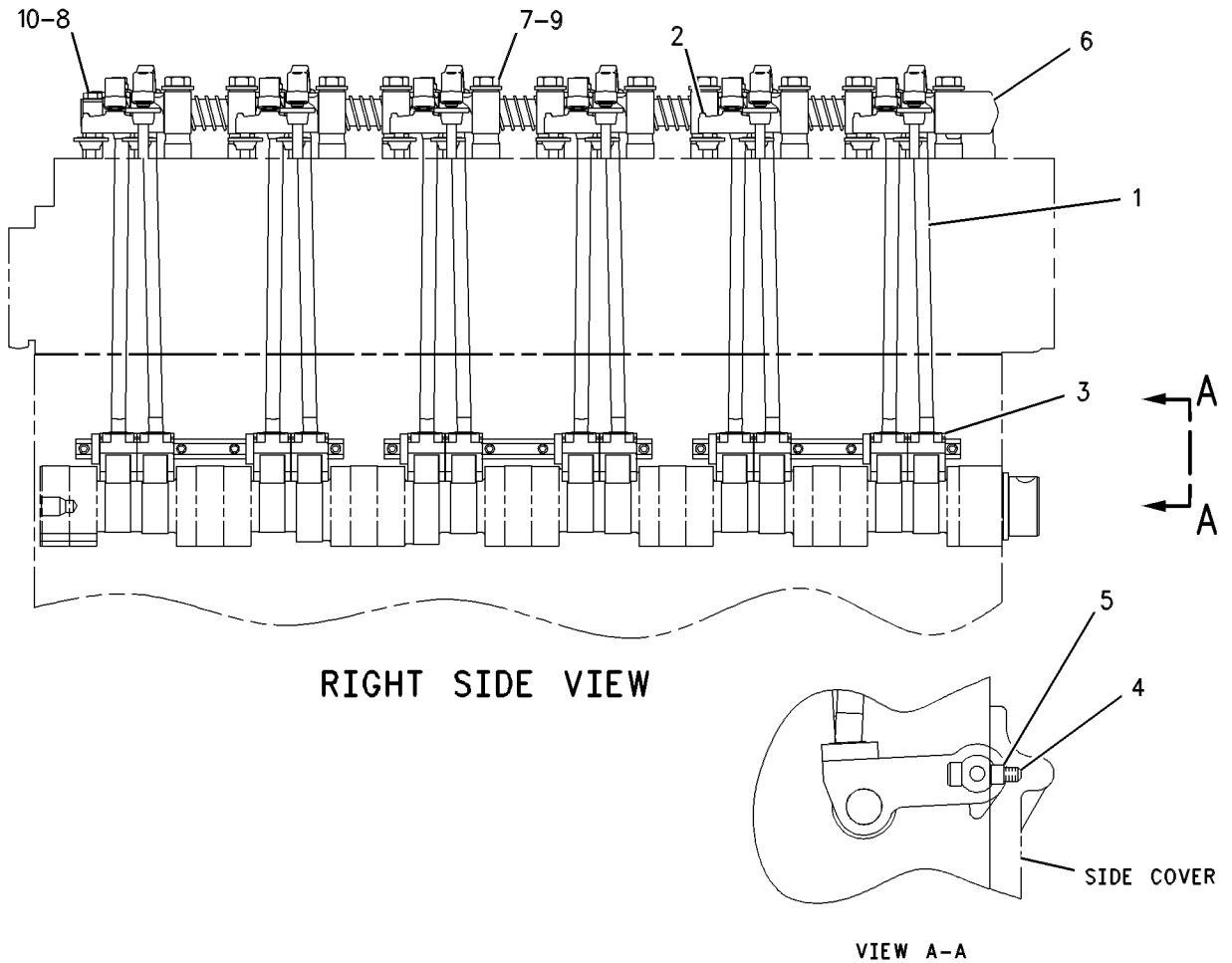
135-2969 VALVE MECHANISM GP

SMCS-1102, 1121, 1123

i00843407

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-6379	12	ROD-VALVE PUSH						
	2	1	145-7384	6	BRIDGE-VALVE						
Y	3	1	<i>139-4081</i>	3	LIFTER GP-VALVE						145
M	4	1	8T-8442	12	BOLT-SOCKET HEAD (M6X1X30MM)						
	5	1	3E-9412	6	DOWEL-BUSHING						
CY	6	1	<i>155-4773</i>	1	VALVE MECHANISM GP						236
M	7	1	6V-5696	11	BOLT (M12X1.75X80MM)						
	8	1	9M-1974	2	WASHER-HARD (2MM THK)						
	9	1	5P-8245	11	WASHER (3MM THK)						
M	10	1	8T-0100	2	BOLT (M8X1.25X60MM)						

C-CHANGE FROM PREVIOUS TYPE
M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00286874

BASIC ENGINE

155-4773 VALVE MECHANISM GP

PART OF 135-2969 VALVE MECHANISM GP

SMCS-1102, 1121, 1123

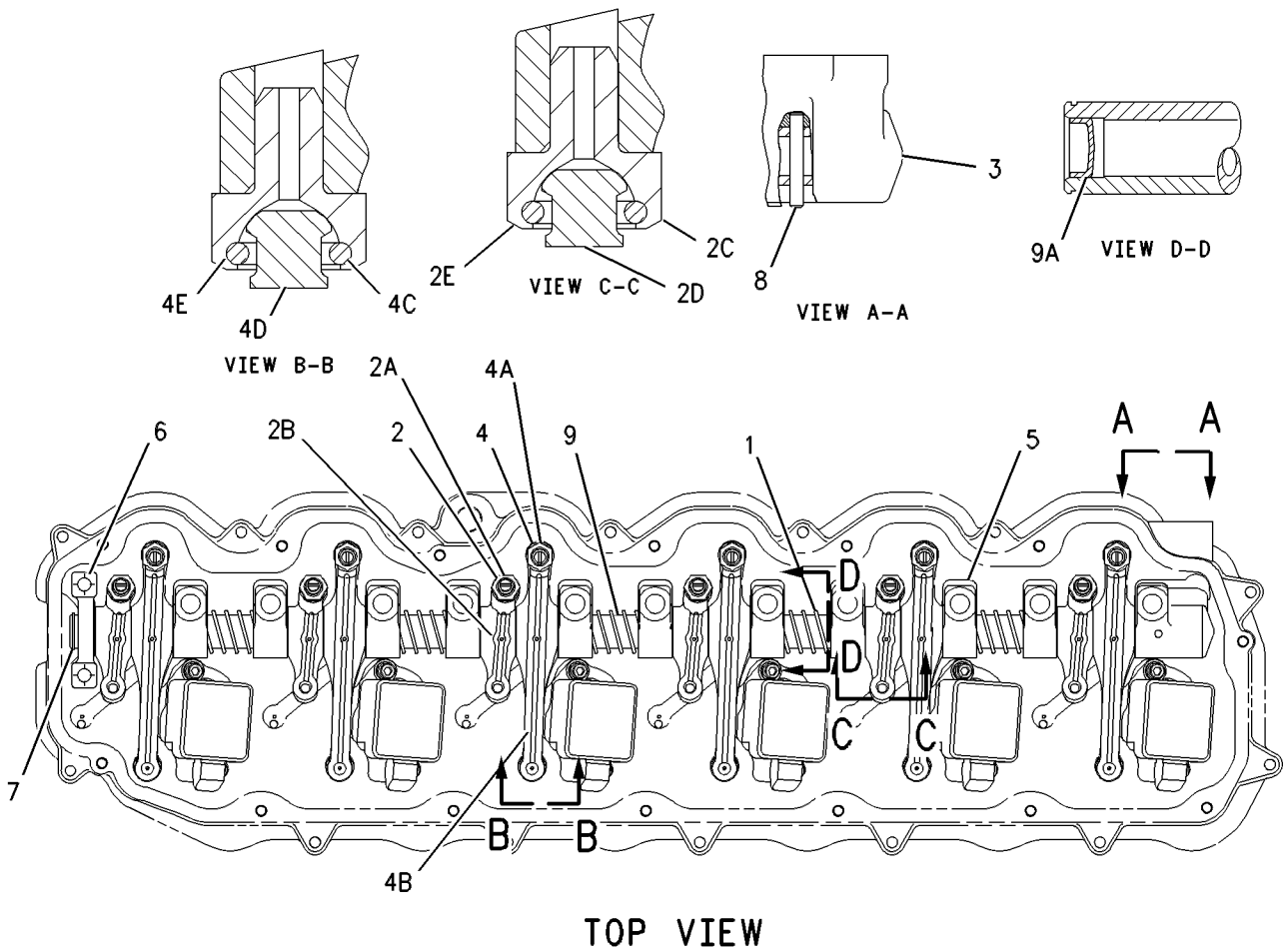
i01458403

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	137-6717	5	SPRING						
	2	1	<i>153-8466</i>	6	ROCKER ARM GP (INTAKE)						
					(EACH INCLUDES)						
M	2A	1	2Y-5829	1	NUT (M10X1.5 THD)						
M		1	9Y-4832	1	SCREW-VALVE ADJUSTMENT (M10X1.5X38MM)						
	2B	1	153-8467	1	ROCKER ARM AS						
	2C	1	7W-3983	1	RING-RETAINING						
	2D	1	145-7376	1	BUTTON-ROCKER ARM						
	2E	1	145-7385	1	SOCKET-ROCKER ARM						
	3	1	138-8403	1	STAND						
	4	1	<i>153-8469</i>	6	ROCKER ARM GP (EXHAUST)						
					(EACH INCLUDES)						
M	4A	1	2Y-5829	1	NUT (M10X1.5 THD)						
M		1	9Y-4832	1	SCREW-VALVE ADJUSTMENT (M10X1.5X38MM)						
	4B	1	153-8470	1	ROCKER ARM AS						
	4C	1	7W-3983	1	RING-RETAINING						
	4D	1	145-7376	1	BUTTON-ROCKER ARM						
	4E	1	145-7385	1	SOCKET-ROCKER ARM						
	5	1	138-8401	10	STAND						
	6	1	138-8402	1	STAND						
	7	1	138-9868	1	RING-RETAINING						
	8	1	8H-5244	1	DOWEL						
	9	1	138-7198	1	SHAFT AS						
	9A	1	5B-1866	1	PLUG-CUP						
M-METRIC PART											

BASIC ENGINE

155-4773 VALVE MECHANISM GP (contd.)

i01458403



GRAPHIC #1

g00621392

LUBRICATION SYSTEM

192-2968 ADAPTER GP-ENGINE OIL LINE

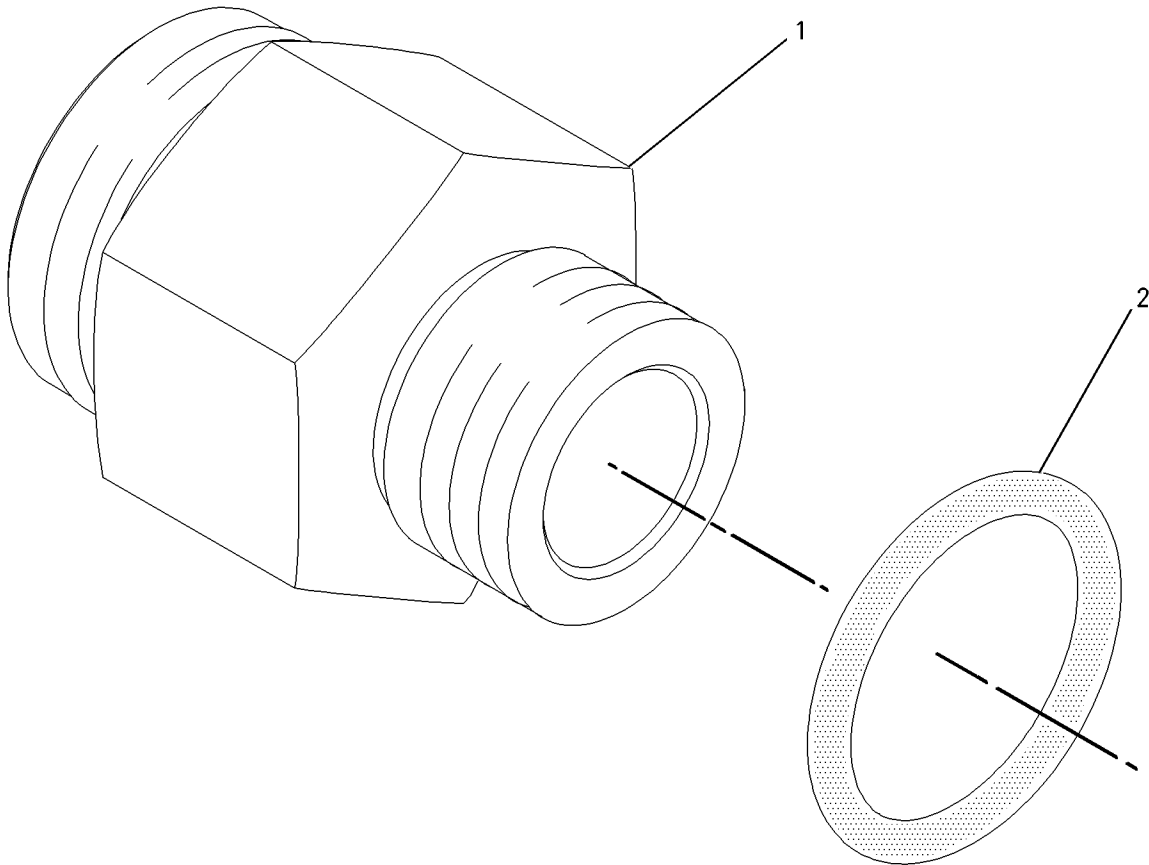
PART OF 173-3257 LINES GP-ENGINE OIL

AN ATTACHMENT

SMCS-1307

i01430959

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-2969	1	ADAPTER AS						
	2	1	136-7227	1	SEAL-O-RING (19.18MM ID)						



GRAPHIC #1

g00751929

LUBRICATION SYSTEM

128-2682 BREATHER GP

FOR USE WITH FUMES DISPOSAL

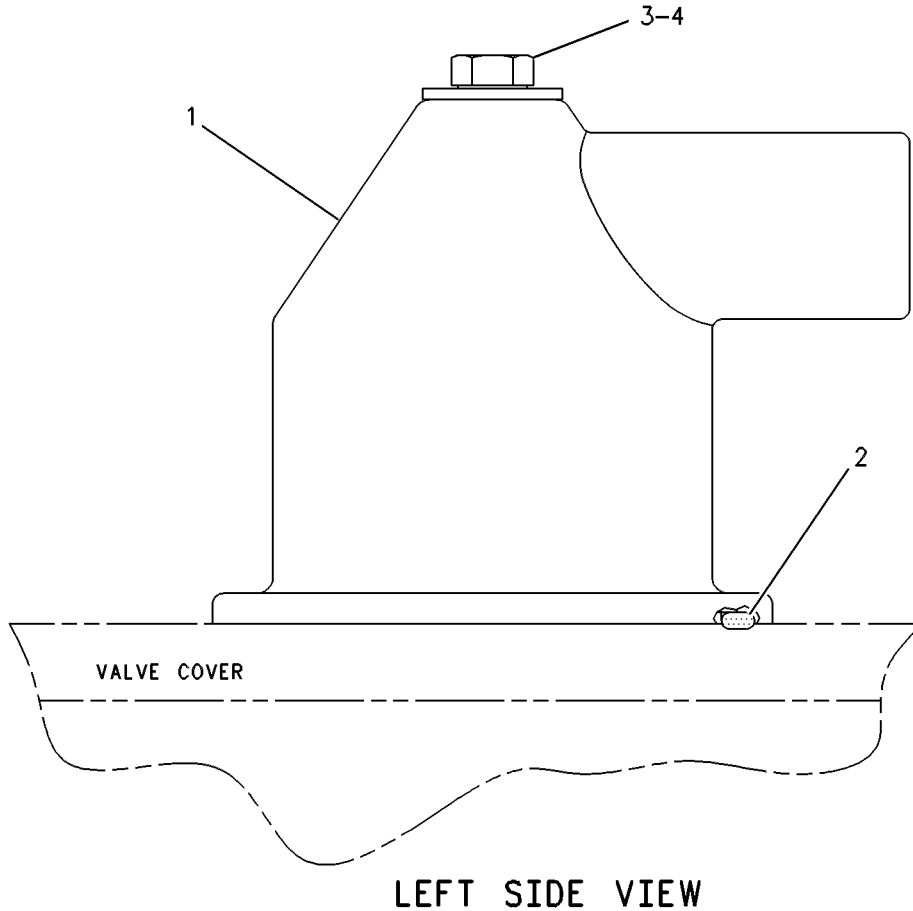
ALSO AN ATTACHMENT

SMCS-1317

i01314741

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	164-0210	1	BREATHER AS						
	2	1	4L-9564	1	SEAL-O-RING (81.92MM ID)						
M	3	1	6V-3821	1	BOLT (M8X1.25X110MM)						
	4	1	9N-0869	1	WASHER-HARD (2MM THK)						

M-METRIC PART



GRAPHIC #1

g00288715

LUBRICATION SYSTEM

156-0233 BREATHER GP

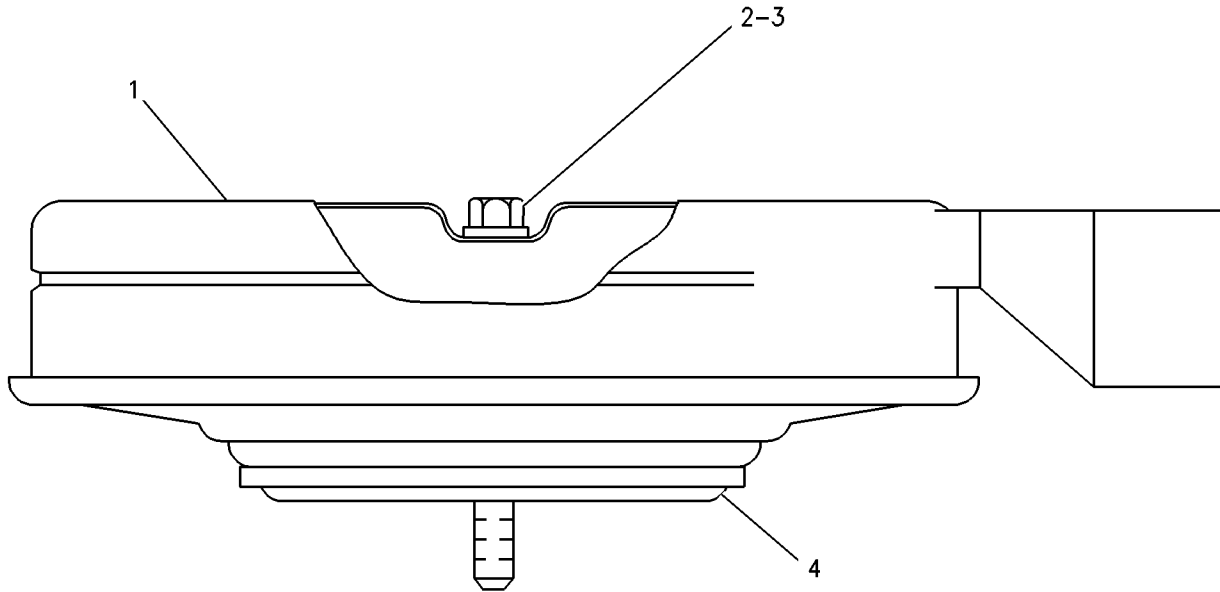
LOW PROFILE
AN ATTACHMENT

SMCS-1317

i01314745

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	183-6848	1	BREATHER AS						
M	2	1	8T-6870	1	BOLT (M8X1.25X70MM)						
	3	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
	4	1	4L-9564	1	SEAL-O-RING (81.92MM ID)						

M-METRIC PART



GRAPHIC #1

g00648415

LUBRICATION SYSTEM

172-8732 COVER GP-OIL FILLER

FOR USE WITH RH SERVICED ENGINES. CANNOT BE USED WITH 172-8733-PAGE 243

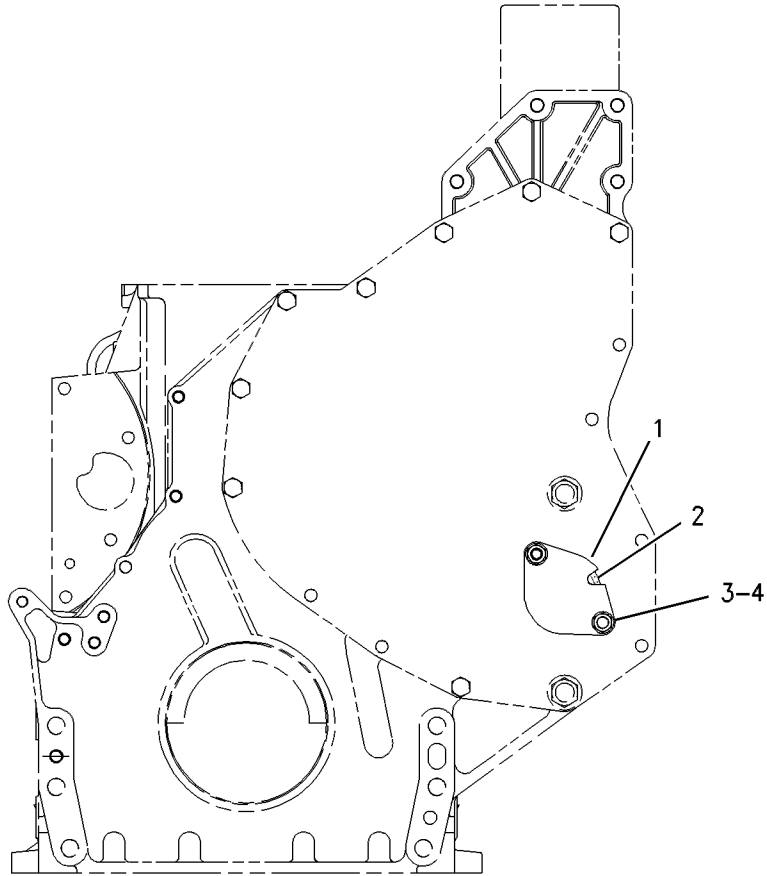
ALSO AN ATTACHMENT

SMCS-1316

i01146596

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-1445	1	COVER						
	2	1	061-9455	1	SEAL-O-RING (47.22MM ID)						
	3	1	8T-4224	2	WASHER-HARD (2MM THK)						
M	4	1	5C-7261	2	NUT (M8X1.25 THD)						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

g00596335

LUBRICATION SYSTEM

117-4075 FASTENER GP-OIL FILTER

FOR USE WITH FASTENER-WIRING HARNESS

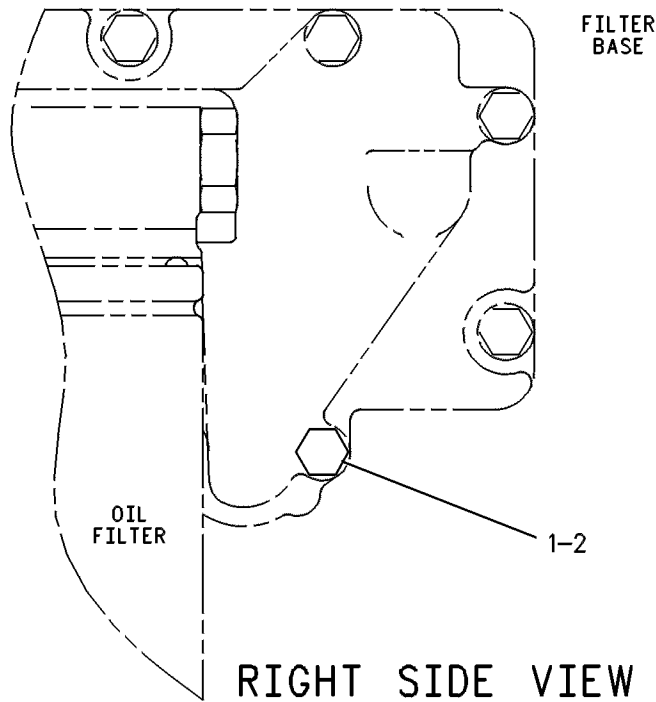
ALSO AN ATTACHMENT

SMCS-1306, 1308

i00638182

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-0276	1	BOLT (M8X1.25X45MM)						
	2	1	9M-1974	1	WASHER-HARD (2MM THK)						

M-METRIC PART



GRAPHIC #1

g00246969

LUBRICATION SYSTEM

172-8733 FILLER GP-ENGINE OIL

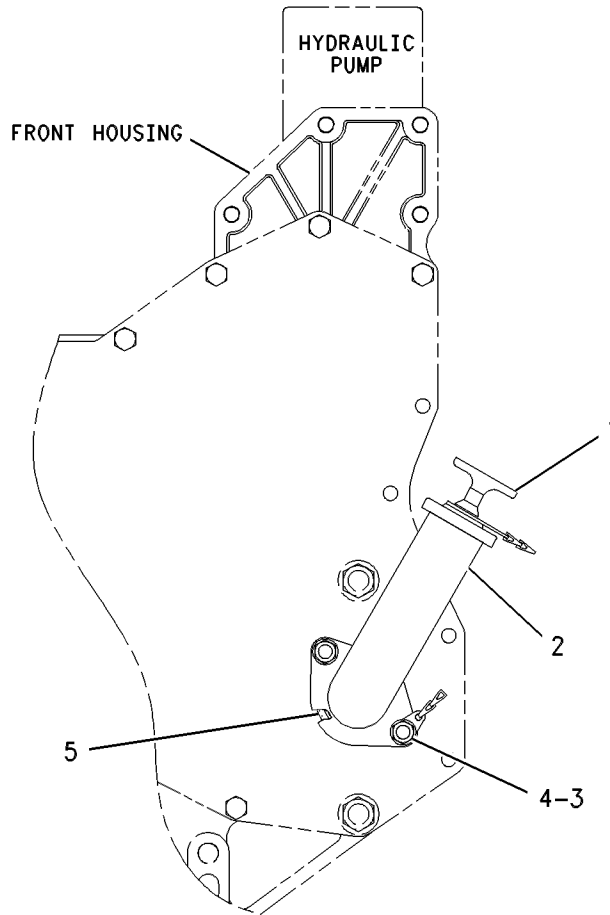
FOR USE WITH ENGINES THAT REQUIRE FRONT OIL FILLER WITH A FILL CAP, LH SERVICED ENGINES. CANNOT BE USED WITH 172-8732-PAGE 241 AN ATTACHMENT

SMCS-1316

i01113083

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-3087	1	CAP-OIL FILLER						
	2	1	7E-4035	1	TUBE AS-OIL FILLER						
M	3	1	5C-7261	2	NUT (M8X1.25 THD)						
	4	1	8T-4224	2	WASHER-HARD (2MM THK)						
	5	1	061-9455	1	SEAL-O-RING (47.22MM ID)						

M-METRIC PART



GRAPHIC #1

g00590539

LUBRICATION SYSTEM

117-4074 FILTER GP-ENGINE OIL

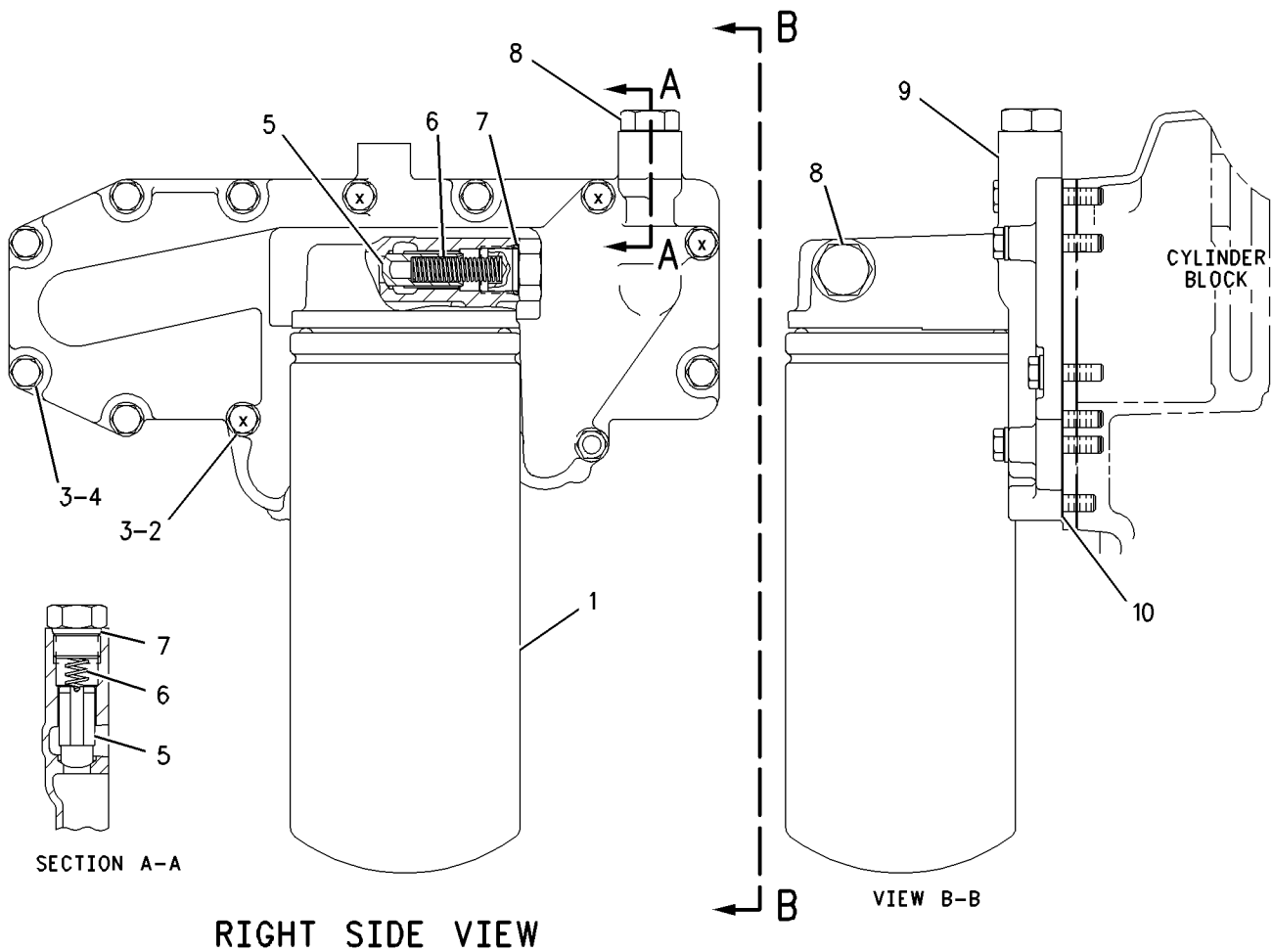
RH MOUNT
AN ATTACHMENT

SMCS-1306, 1308

i01622084

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1R-0739	1	FILTER AS-ENGINE OIL						
M	2	1	8T-0276	4	BOLT (M8X1.25X45MM)						
	3	1	9M-1974	14	WASHER-HARD (8.8X16X2MM THK)						
M	4	1	6V-2317	10	BOLT (M8X1.25X30MM)						
	5	1	7C-1493	2	VALVE-BYPASS (ENGINE OIL)						
	6	1	9L-9188	2	SPRING-VALVE						
	7	1	2M-9780	2	SEAL-O-RING						
M	8	1	5P-8196	2	PLUG-O-RING						
	9	1	4P-8182	1	BASE AS-OIL FILTER						
		1	2P-2537	1	STUD-HOLLOW						
	10	1	7E-9817	1	GASKET						

M-METRIC PART



GRAPHIC #1

g00839347

LUBRICATION SYSTEM

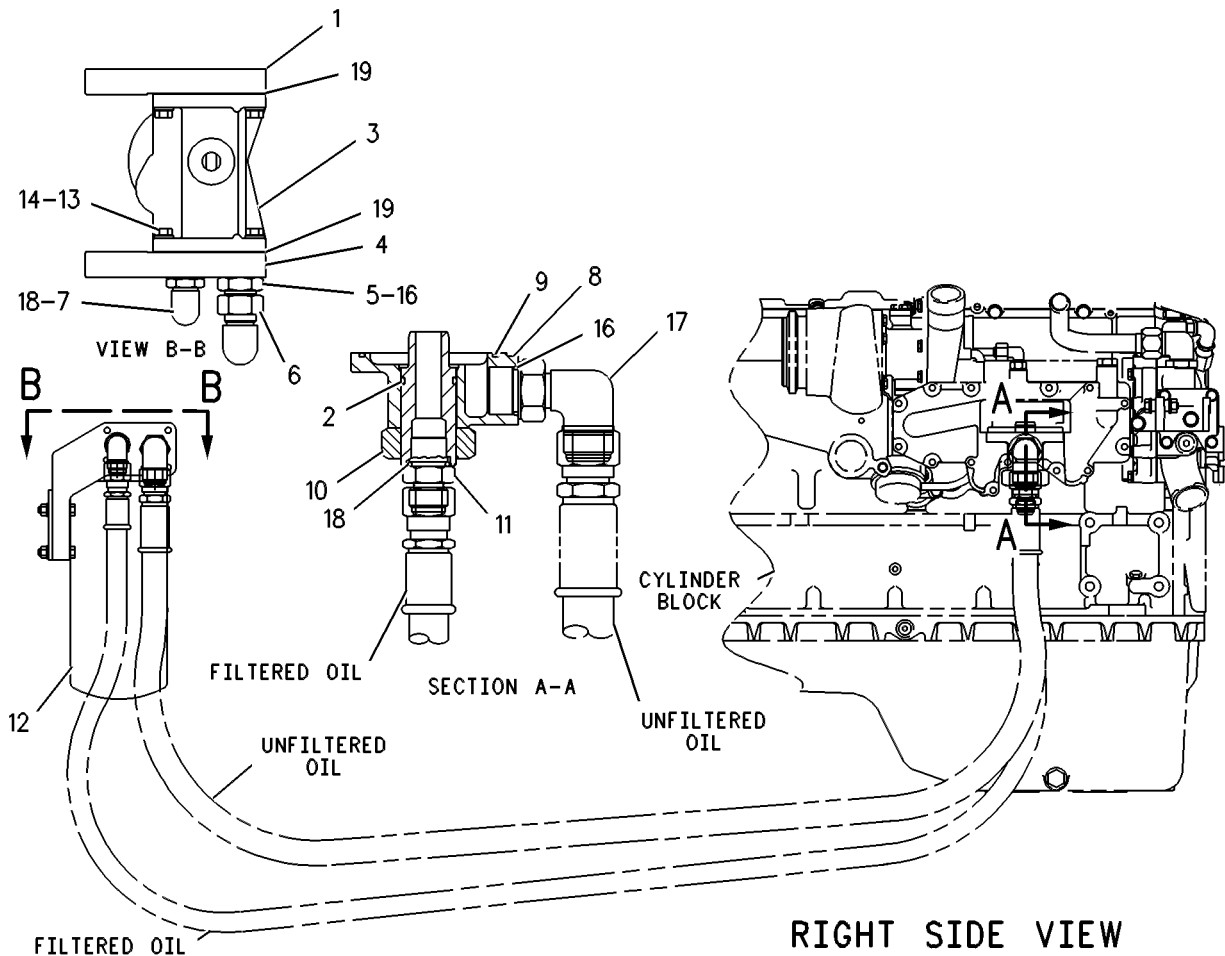
127-4761 FILTER GP-ENGINE OIL

AN ATTACHMENT

SMCS-1306, 1308

i00643642

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-9105	1	BRACKET						
	2	1	5P-8066	1	SEAL-O-RING (32.92MM ID)						
	3	1	2P-4303	1	BASE AS-OIL FILTER						
		1	2P-4304	1	STUD-TAPERLOCK						
	4	1	4P-9104	1	BRACKET						
	5	1	030-7935	1	CONNECTOR-FLARED						
	6	1	031-5744	1	ELBOW						
	7	1	030-7950	1	ELBOW (1 1/16-12 STR THD)						
	8	1	4P-9103	1	ADAPTER-BASE						
	9	1	8H-7521	1	SEAL-O-RING (91.67MM ID)						
	10	1	7F-0216	1	NUT-JAM						
	11	1	2R-6276	1	CONNECTOR (1 1/16-12 THD)						
	12	1	1R-0716	1	FILTER AS-ENGINE OIL						
	13	1	5M-2894	8	WASHER (2.5MM THK)						
	14	1	0S-1588	8	BOLT (3/8-16X1.25IN)						
	15	1	4P-9107	1	STUD-HOLLOW						
	16	1	7M-8485	2	SEAL-O-RING (29.74MM ID)						
	17	1	030-7951	1	ELBOW-FLARED						
	18	1	3D-2824	2	SEAL-O-RING (23.47MM ID)						
	19	1	2P-4305	2	GASKET						



GRAPHIC #1

g00259962

LUBRICATION SYSTEM

201-9775 FILTER GP-ENGINE OIL

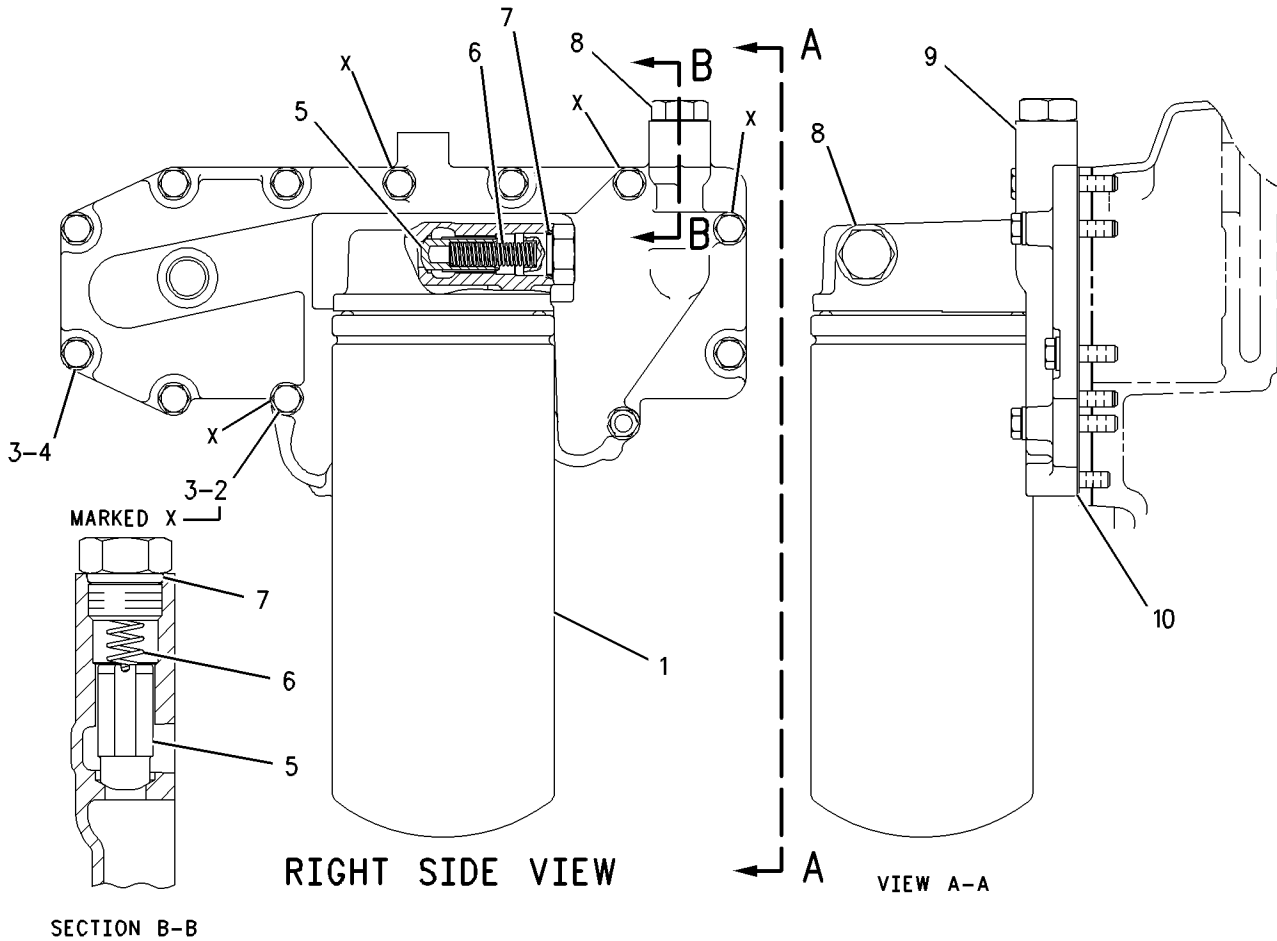
FOR USE WITH OIL SAMPLING VALVE. CANNOT BE USED WITH PLUGGED OIL SAMPLING PORT
ALSO AN ATTACHMENT

SMCS-1306, 1308

i01622089

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1R-0739	1	FILTER AS-ENGINE OIL						
M	2	1	8T-0276	4	BOLT (M8X1.25X45MM)						
	3	1	9M-1974	14	WASHER-HARD (8.8X16X2MM THK)						
M	4	1	6V-2317	10	BOLT (M8X1.25X30MM)						
	5	1	7C-1493	2	VALVE-BYPASS						
	6	1	9L-9188	2	SPRING-VALVE						
	7	1	2M-9780	2	SEAL-O-RING						
M	8	1	5P-8196	2	PLUG-O-RING						
	9	1	201-9774	1	BASE AS-OIL FILTER						
		1	2P-2537	1	STUD-HOLLOW						
	10	1	7E-9817	1	GASKET						

M-METRIC PART



GRAPHIC #1

g00839352

LUBRICATION SYSTEM

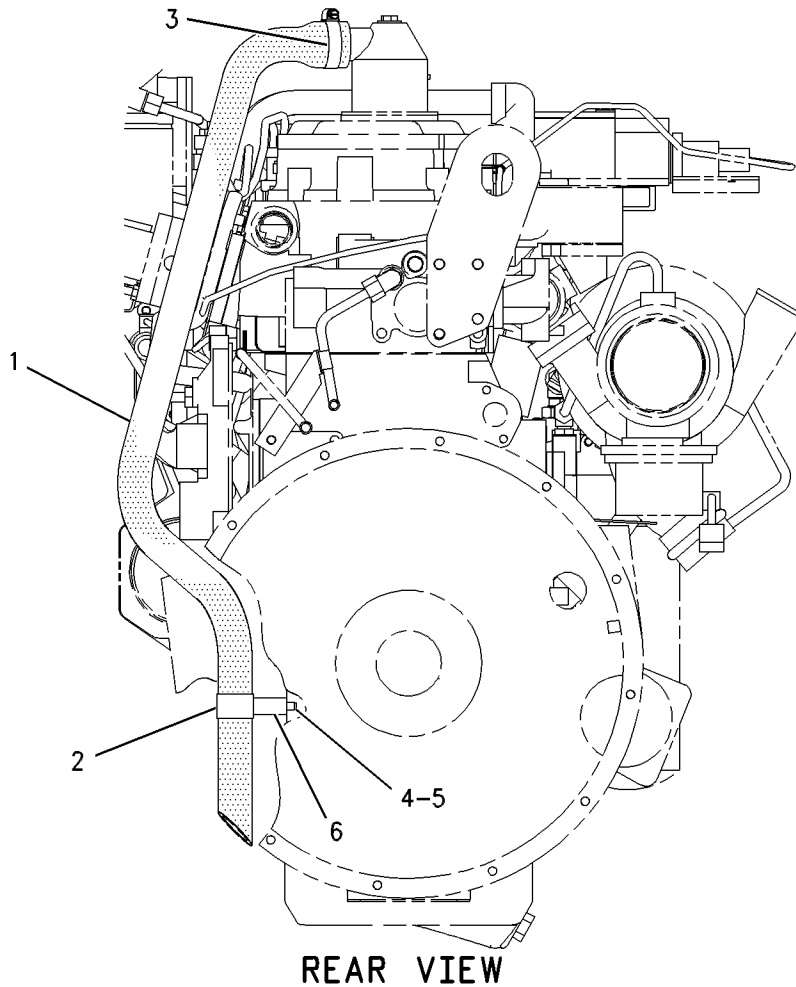
126-5470 FUMES DISPOSAL GP FOR USE WITH REAR MOUNTED BREATHER AND HIGH MOUNTED ECM AN ATTACHMENT

SMCS-1317

i01314748

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	136-0806	1	HOSE - FUMES DISPOSAL						
	2	1	2S-2053	1	CLIP (34.92MM ID)						
	3	1	9M-2904	1	CLAMP - HOSE						
	4	1	9M-1974	1	WASHER - HARD (2MM THK)						
M	5	1	6V-3918	1	BOLT (M8X1.25X50MM)						
	6	1	3L-3825	1	SPACER (1-3/8 IN LG)						

M-METRIC PART



GRAPHIC #1

g00286436

LUBRICATION SYSTEM

143-7326 FUMES DISPOSAL GP

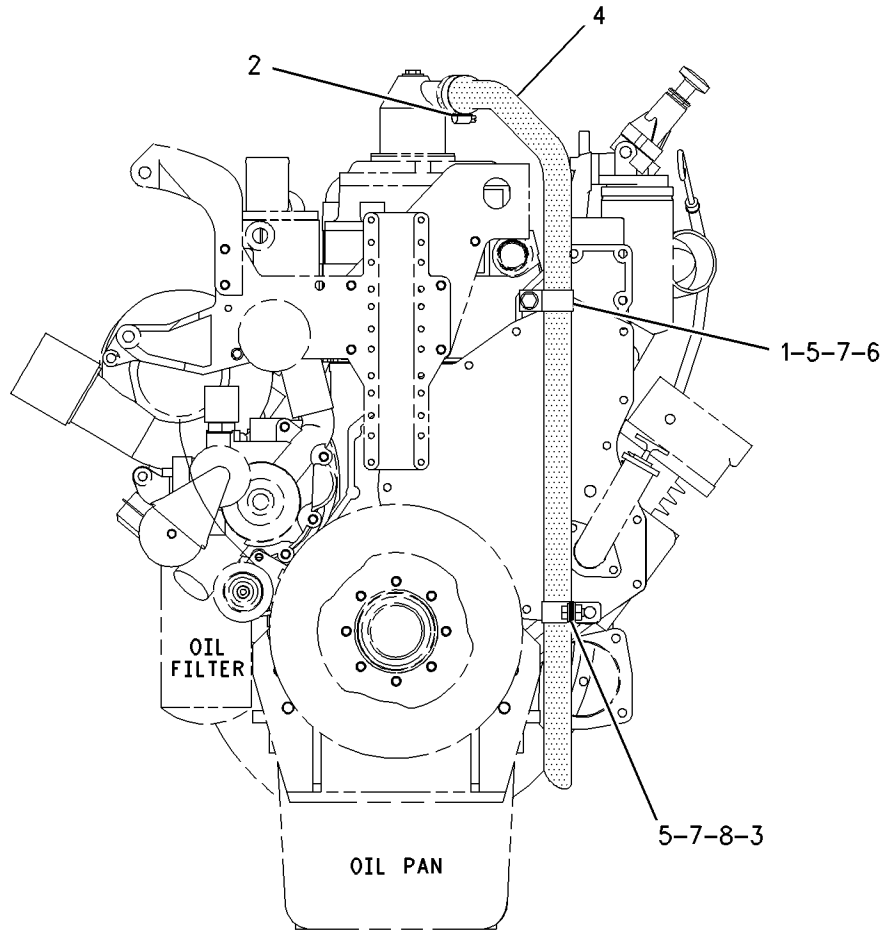
FOR USE WITH FRONT COVER
AN ATTACHMENT

SMCS-1317

i01605278

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8E-5498	1	BOSS						
	2	1	9M-2904	1	CLAMP-HOSE						
	3	1	149-5262	1	BRACKET AS						
	4	1	155-4920	1	HOSE (FUMES)						
	5	1	2S-2053	2	CLIP						
M	6	1	6V-4249	1	BOLT (M10X1.5X50 MM)						
	7	1	6V-5839	2	WASHER (11X21X2.5MM THK)						
M	8	1	6V-6317	1	BOLT (M10X1.5X20MM)						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

g00696609

LUBRICATION SYSTEM

151-0865 FUMES DISPOSAL GP

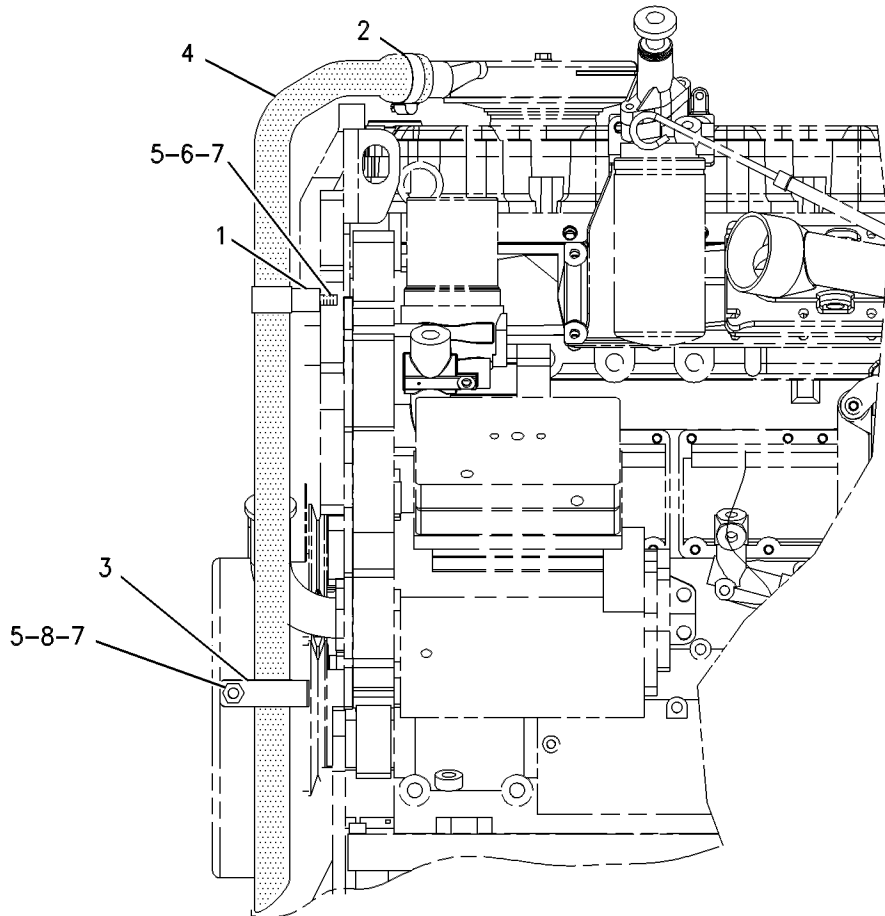
FOR USE WITH LOW MOUNT FRONT BREATHER
AN ATTACHMENT

SMCS-1317

i01457473

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8E-5498	1	BOSS						
	2	1	9M-2904	1	CLAMP-HOSE						
	3	1	149-5262	1	BRACKET AS						
M		1	8T-3490	1	NUT-WELD (M10X1.5 THD)						
	4	1	155-4918	1	HOSE						
	5	1	2S-2053	2	CLIP						
M	6	1	6V-4249	1	BOLT (M10X1.5X50 MM)						
	7	1	6V-5839	2	WASHER (11X21X2.5MM THK)						
M	8	1	6V-6317	1	BOLT (M10X1.5X20MM)						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00400860

LUBRICATION SYSTEM

163-5696 FUMES DISPOSAL GP

REAR MOUNTED BREATHER

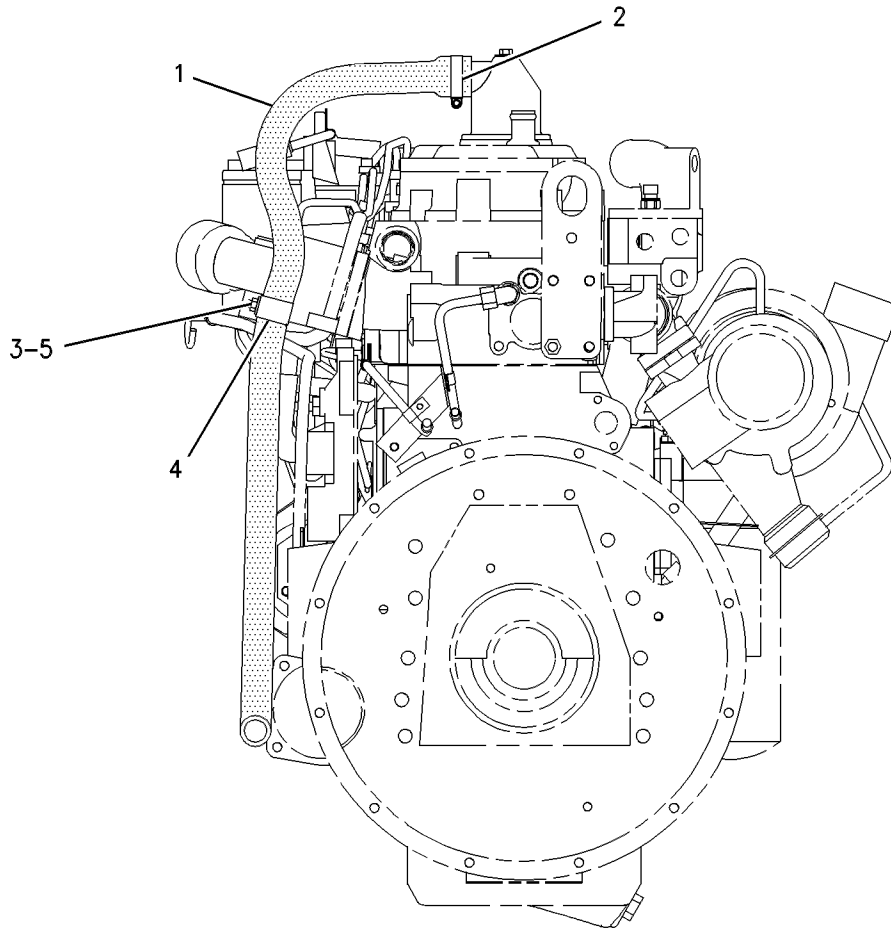
ALSO AN ATTACHMENT

SMCS-1317

i01327878

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-2181	1	HOSE-DISPOSAL						
	2	1	9M-2904	1	CLAMP-HOSE						
	3	1	3E-4352	2	WASHER-HARD (2.5MM THK)						
	4	1	2S-2053	1	CLIP (34.92MM ID)						
M	5	1	5P-7970	1	NUT (M8X1.25 THD)						

M-METRIC PART



REAR VIEW

GRAPHIC #1

g00528836

LUBRICATION SYSTEM

6I-2687 GAUGE GP-OIL LEVEL (DIPSTICK)

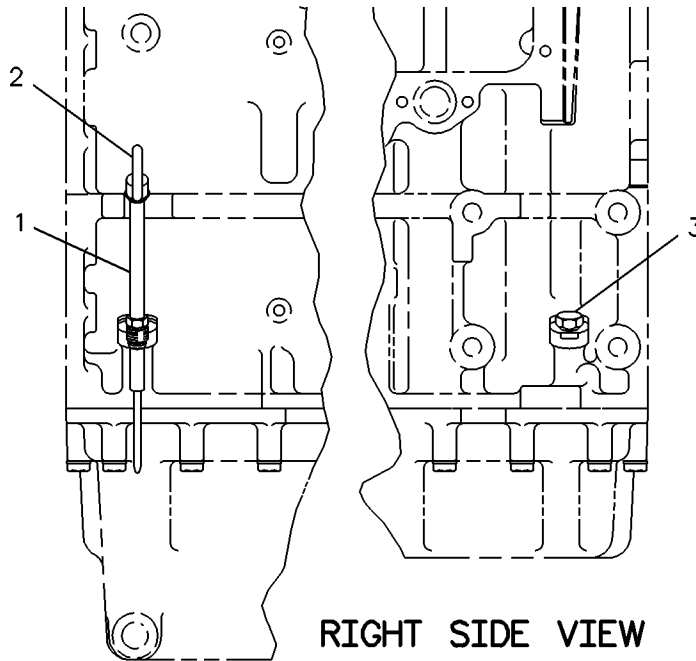
FOR USE WITH 117-5123-PAGE 163, 117-5125-PAGE 257

AN ATTACHMENT

SMCS-1326

i01457566

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-7069	1	TUBE AS-OIL GAUGE						
	2	1	6I-2688	1	GAUGE-OIL LEVEL (DIPSTICK)						
	3	1	1S-2563	3	PLUG						
(USE TO PLUG OPTIONAL DIPSTICK LOCATIONS)											



GRAPHIC #1

g00222560

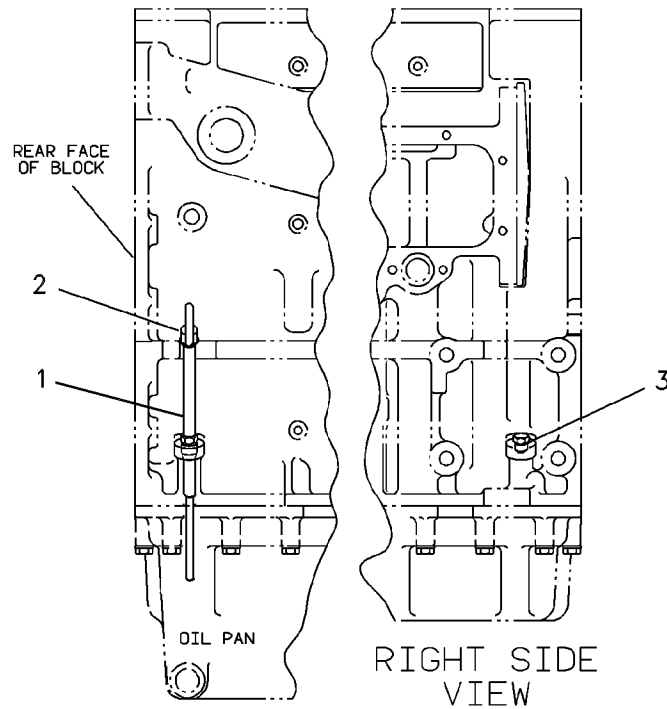
LUBRICATION SYSTEM

132-3838 GAUGE GP-OIL LEVEL (DIPSTICK) AN ATTACHMENT

SMCS-1326

i00639669

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-7069	1	TUBE AS-OIL GAUGE						
		1	8F-8997	1	NUT-FITTING						
	2	1	106-8634	1	GAUGE-OIL LEVEL (DIPSTICK)						
	3	1	1S-2563	3	PLUG						
(USE TO PLUG OPTIONAL DIPSTICK LOCATIONS)											



GRAPHIC #1

g00236588

LUBRICATION SYSTEM

203-1257 GAUGE GP-OIL LEVEL (DIPSTICK)

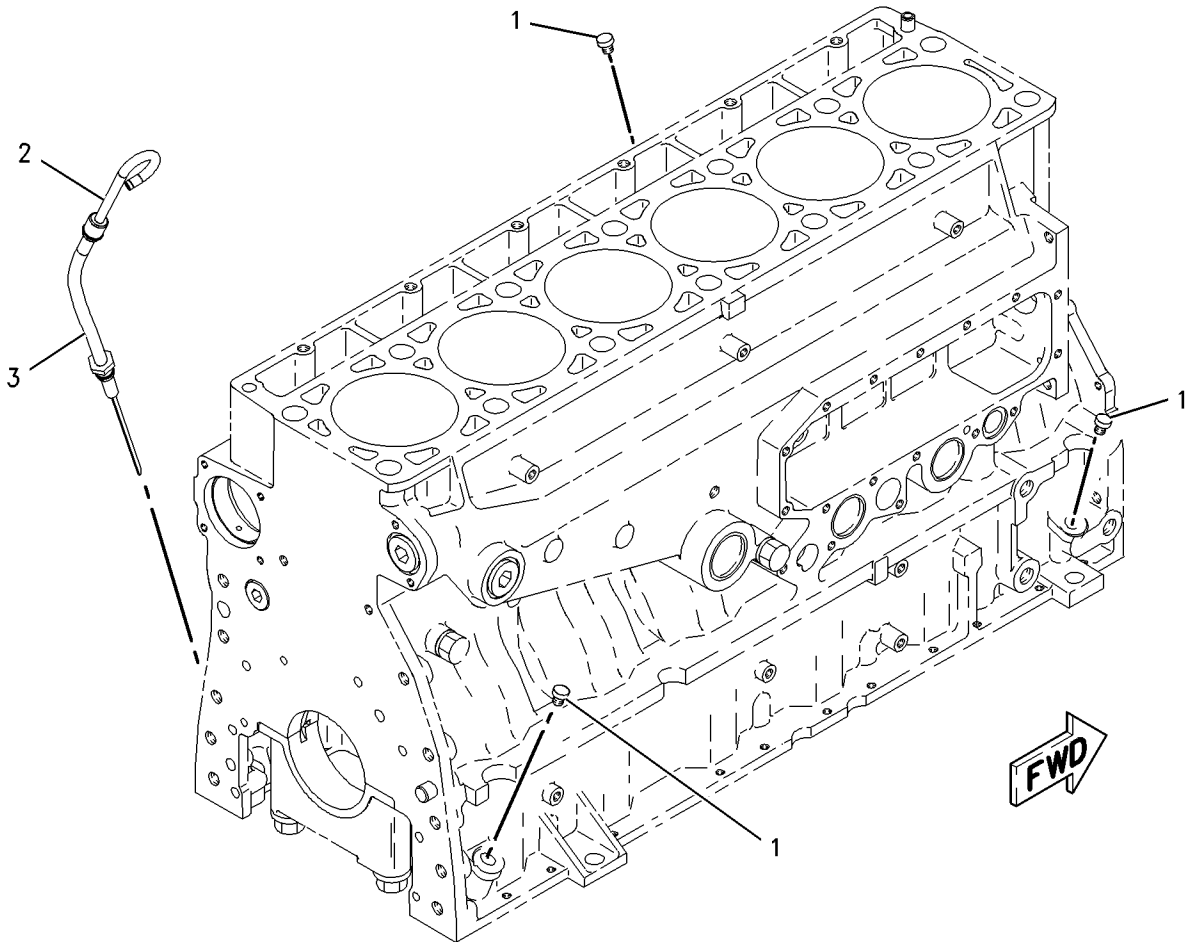
LH REAR
AN ATTACHMENT

SMCS-1326

i01496266

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	1S-2563	3	PLUG						
	2	1	106-8634	1	GAUGE-OIL LEVEL (DIPSTICK)						
	3	1	9Y-7069	1	TUBE AS-OIL GAUGE						

J-USE TO PLUG OPTIONAL DIPSTICK LOCATIONS IN CYLINDER BLOCK



GRAPHIC #1

g00783192

LUBRICATION SYSTEM

203-1258 GAUGE GP-OIL LEVEL (DIPSTICK)

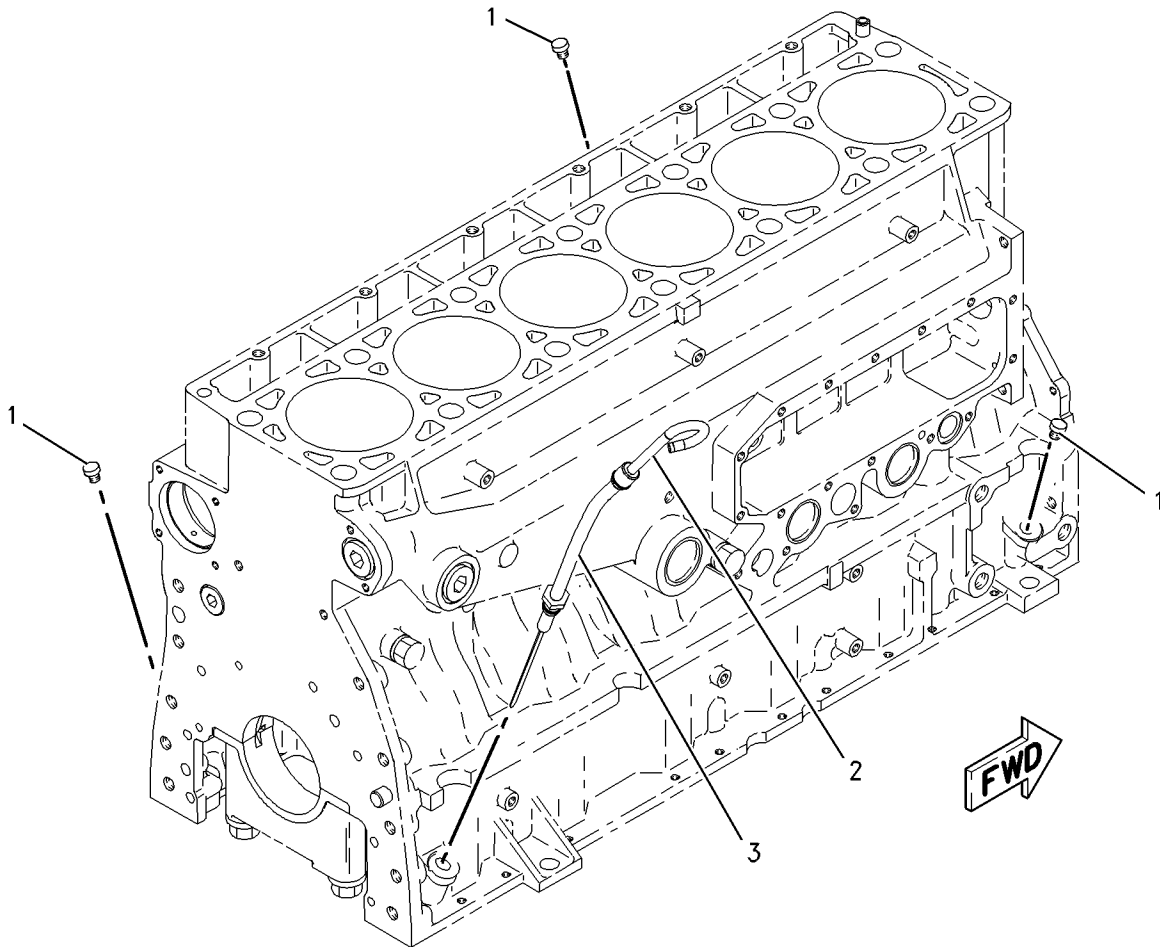
RH REAR
AN ATTACHMENT

SMCS-1326

i01496271

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	1S-2563	3	PLUG						
	2	1	106-8634	1	GAUGE-OIL LEVEL (DIPSTICK)						
	3	1	9Y-7069	1	TUBE AS-OIL GAUGE						

J-USE TO PLUG OPTIONAL DIPSTICK LOCATIONS IN CYLINDER BLOCK



GRAPHIC #1

g00783534

LUBRICATION SYSTEM

203-1259 GAUGE GP-OIL LEVEL (DIPSTICK)

RH FRONT

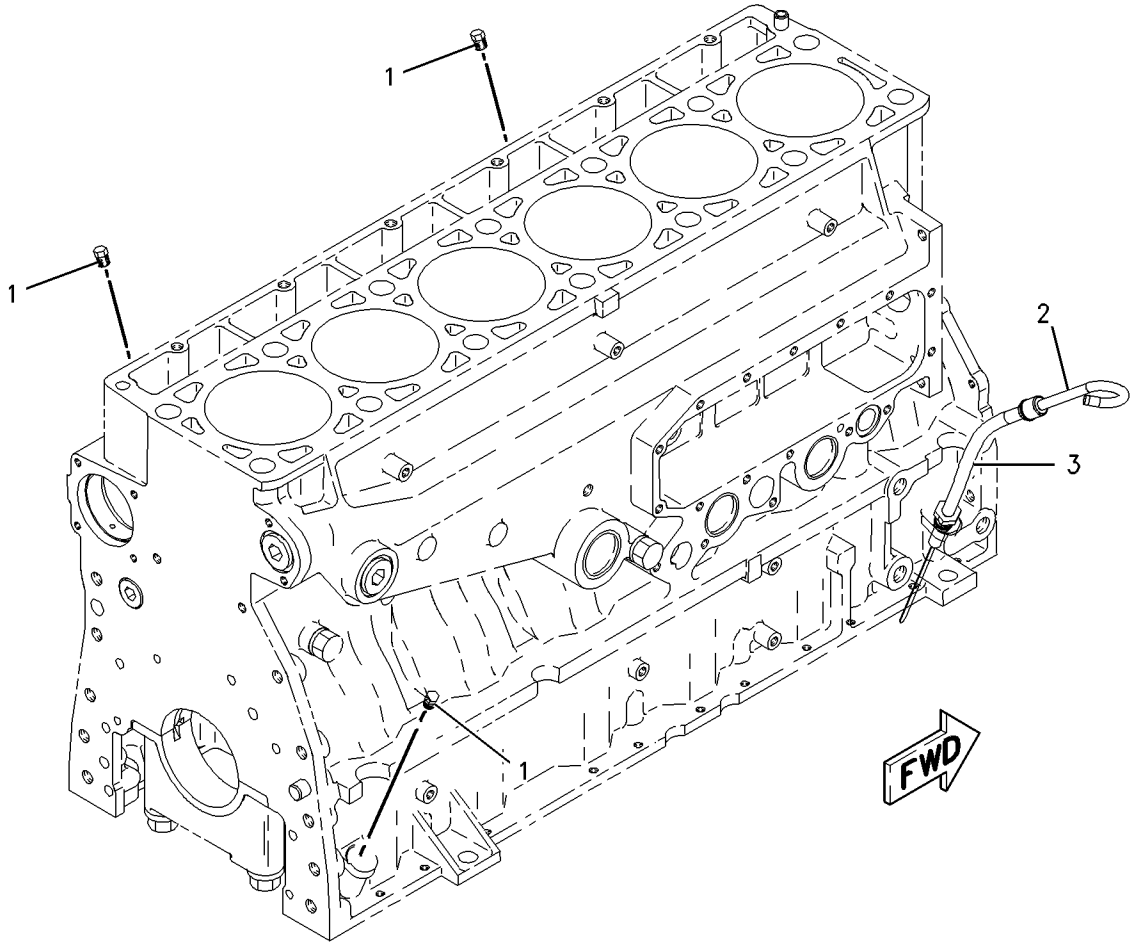
ALSO AN ATTACHMENT

SMCS-1326

i01496272

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
J	1	1	1S-2563	3	PLUG						
	2	1	106-8634	1	GAUGE-OIL LEVEL (DIPSTICK)						
	3	1	9Y-7069	1	TUBE AS-OIL GAUGE						

J-USE TO PLUG OPTIONAL DIPSTICK LOCATIONS IN CYLINDER BLOCK



GRAPHIC #1

g00783183

LUBRICATION SYSTEM

7C-2475 LINES GP-ENGINE OIL

FOR USE WITH 32 LITER FRONT SUMP OIL PAN, 126-5931--PAGE 164

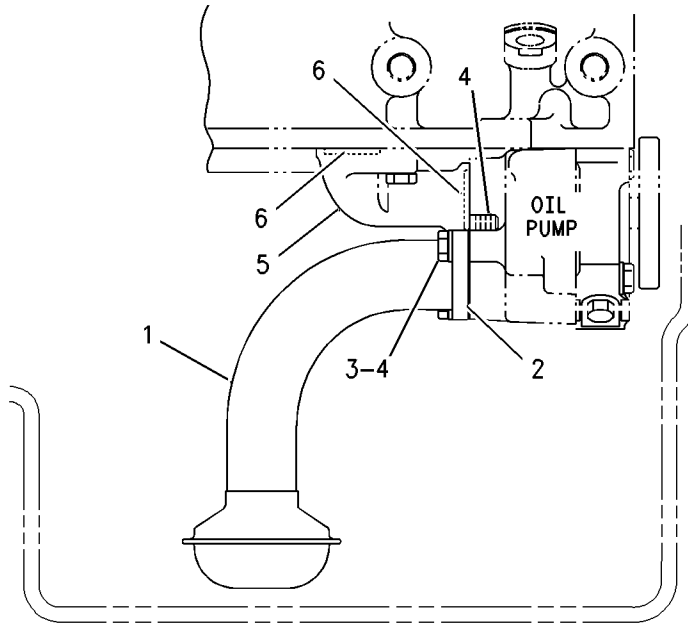
ALSO AN ATTACHMENT

SMCS-1307

i01560106

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-5403	1	TUBE AS						
	2	1	7W-5340	1	GASKET						
	3	1	9M-1974	2	WASHER-HARD (8.8X16X2MM THK)						
M	4	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	5	1	4W-2232	1	ELBOW-OUTLET						
	6	1	3P-1156	2	SEAL-O-RING						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00810667

LUBRICATION SYSTEM

117-5125 LINES GP-ENGINE OIL

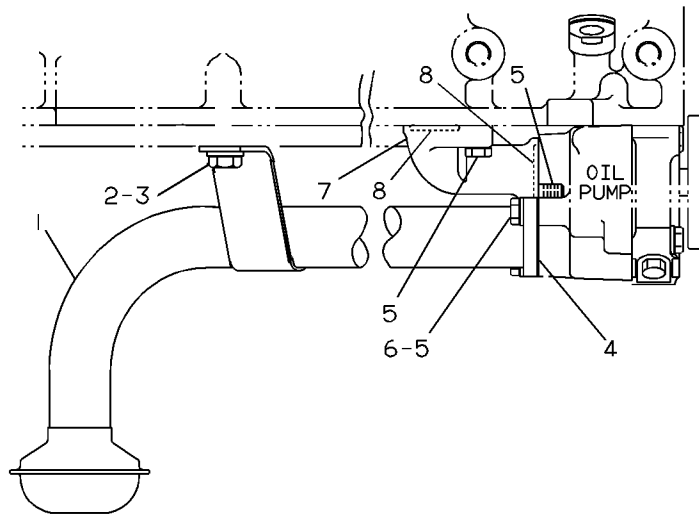
FOR USE WITH 25 LITER OIL CHANGE CAPACITY, 6I-2687-PAGE 251, 117-5123-PAGE 163
AN ATTACHMENT

SMCS-1307

i01537503

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-6518	1	TUBE AS						
	2	1	6V-5839	1	WASHER (11X21X2.5MM THK)						
M	3	1	6V-4248	1	BOLT (M10X1.50X25MM)						
	4	1	7W-5340	1	GASKET						
M	5	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	6	1	9M-1974	2	WASHER-HARD (8.8X16X2MM THK)						
	7	1	4W-2232	1	ELBOW-OUTLET						
	8	1	3P-1156	2	SEAL-O-RING						

M-METRIC PART



SIDE VIEW

GRAPHIC #1

g00213115

LUBRICATION SYSTEM

129-1133 LINES GP-ENGINE OIL

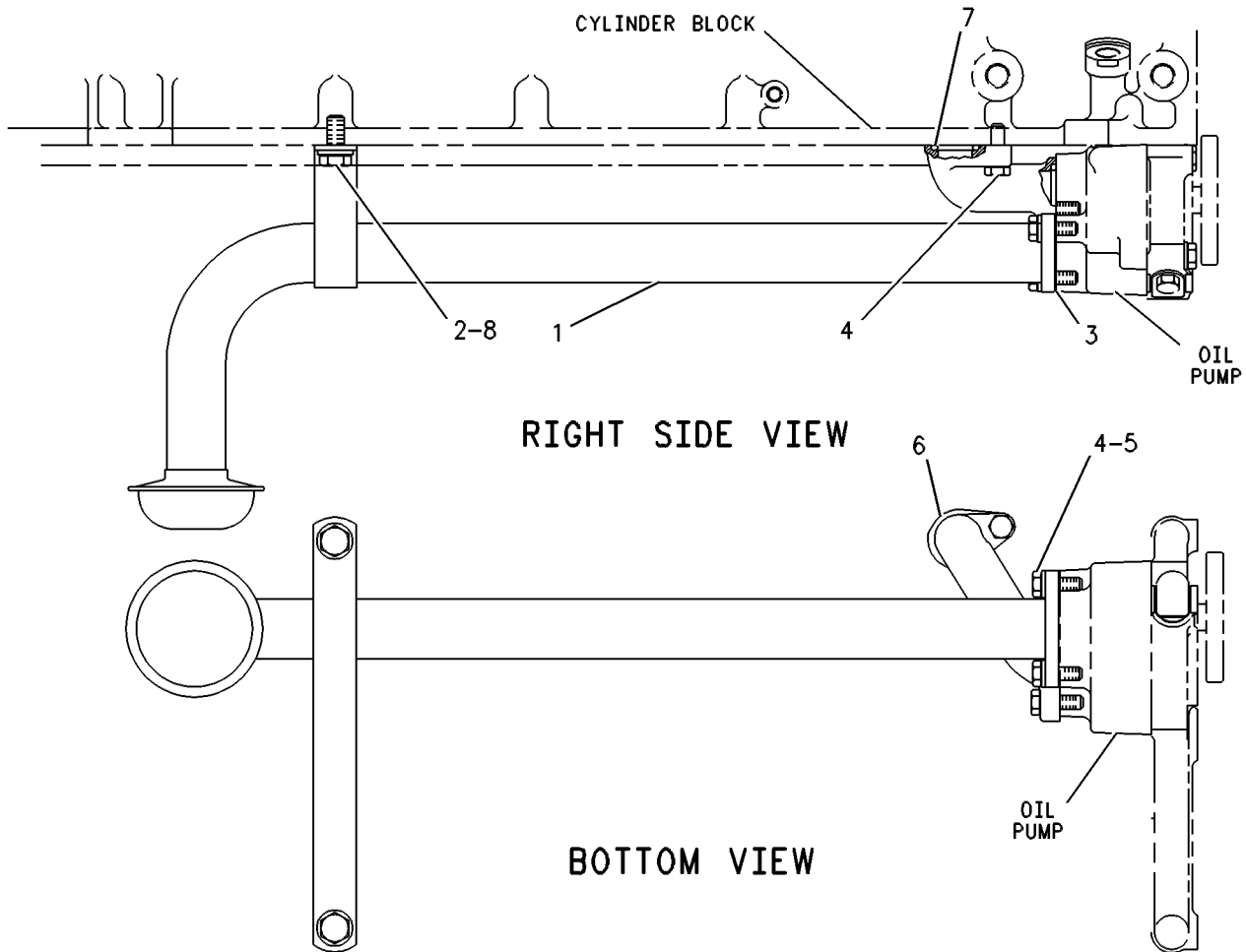
FOR USE WITH 32 LITER REAR SUMP OIL PAN
AN ATTACHMENT

SMCS-1307

i00638698

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	129-1132	1	TUBE AS-OIL						
M	2	1	6V-4248	2	BOLT (M10X1.50X25MM)						
	3	1	7W-5340	1	GASKET						
M	4	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	5	1	9M-1974	2	WASHER-HARD (2MM THK)						
	6	1	4W-2232	1	ELBOW-OUTLET						
	7	1	3P-1156	2	SEAL-O-RING						
	8	1	6V-5839	2	WASHER (2.5MM THK)						

M-METRIC PART



GRAPHIC #1

g00258097

LUBRICATION SYSTEM

173-3257 LINES GP-ENGINE OIL

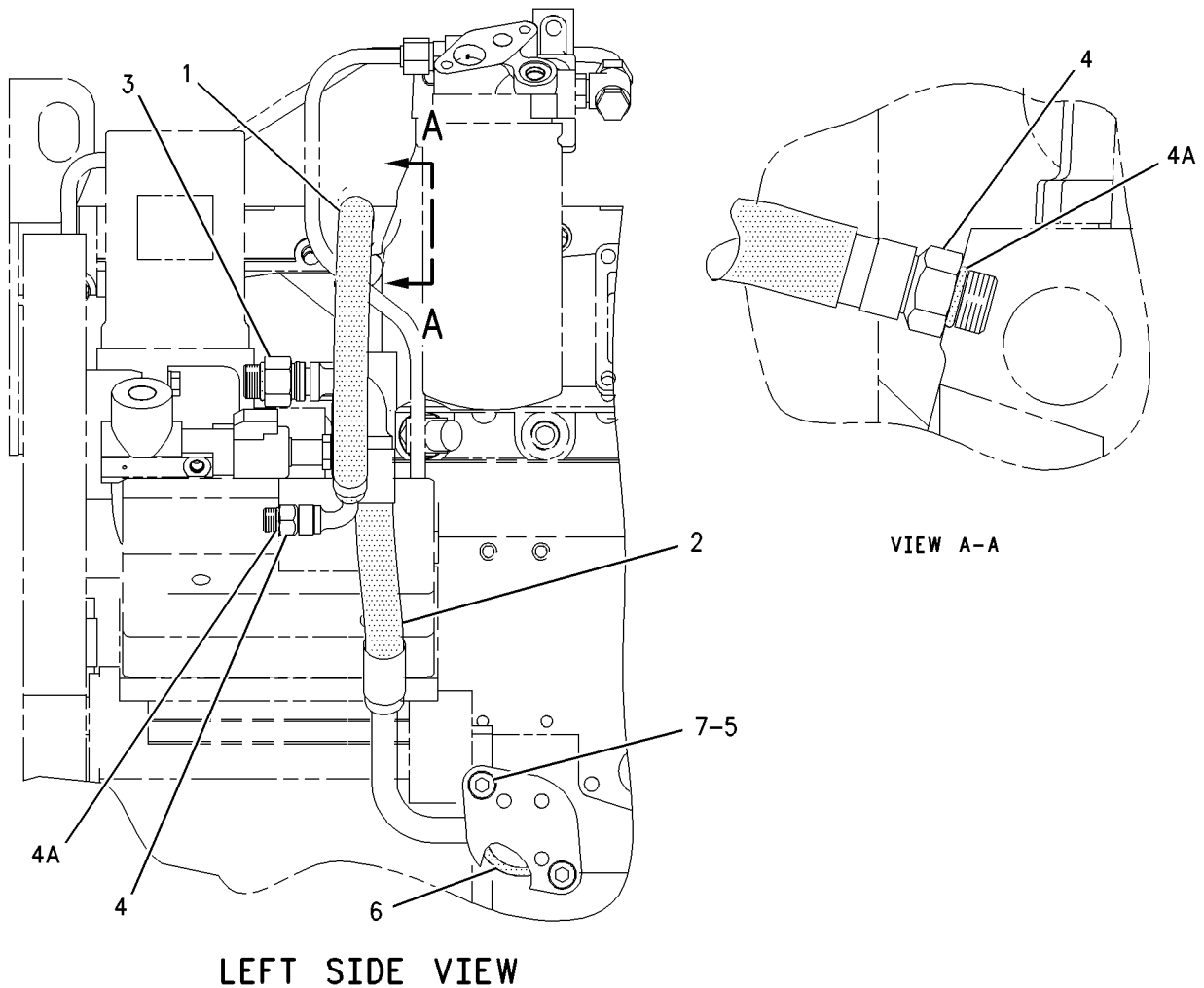
PROVIDES OIL LINES FOR HEUI PUMP
AN ATTACHMENT

SMCS-1307

i01519470

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	175-3236		HOSE AS						
	2	1	192-2963	1	HOSE AS						
Y	3	1	192-2968	1	ADAPTER GP-ENGINE OIL LINE						238
	4	1	179-7001	2	ADAPTER GP-PUMP						
					(EACH INCLUDES)						
	4A	1	153-4906	1	SEAL-O-RING						
		1	179-7002	1	ADAPTER AS						
	5	1	3V-2431	2	WASHER (10.2X16.0X2.0MM THK)						
	6	1	4F-9653	1	SEAL-O-RING						
M	7	1	8T-1159	2	BOLT-SOCKET HEAD (M10X1.5X25MM)						
					AVAILABLE REPAIR KIT(S) :						
			192-2964		KIT-HOSE (INCLUDES REMOVAL TOOL)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00789328

LUBRICATION SYSTEM

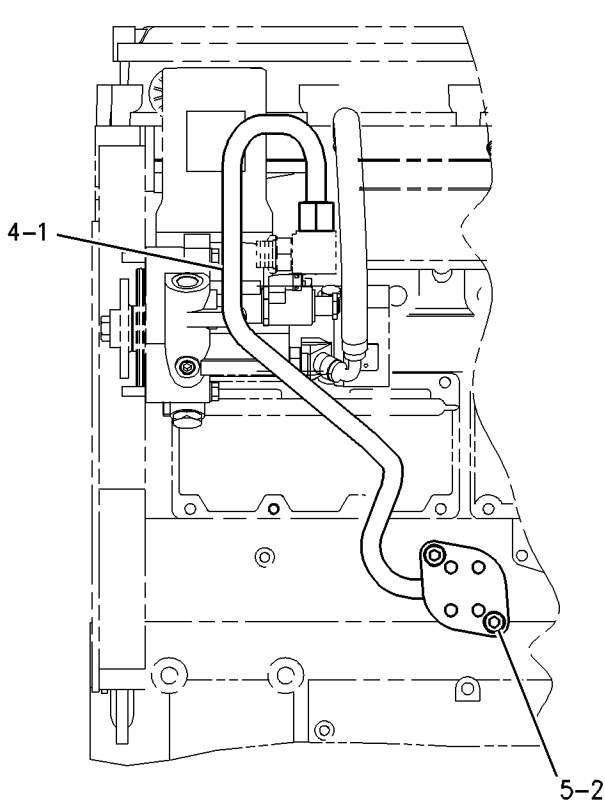
199-6305 LINES GP-OIL FOR USE WITH LOW OIL PRESSURE LINE TO FUEL PUMP ALSO AN ATTACHMENT

SMCS-1307

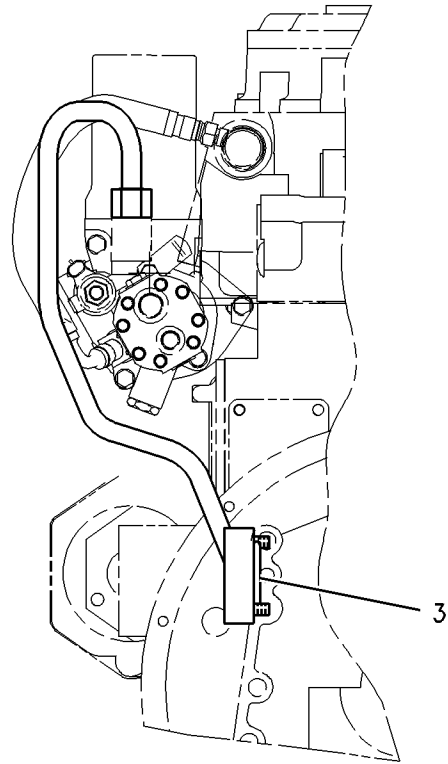
i01575346

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	176-4190	1	TUBE AS						
	2	1	3V-2431	2	WASHER (10.2X16.0X2.0MM THK)						
	3	1	4F-9653	1	SEAL-O-RING						
	4	1	7J-9108	1	SEAL-O-RING						
M	5	1	8T-1159	2	BOLT-SOCKET HEAD (M10X1.5X25MM)						

M-METRIC PART



LEFT SIDE VIEW



REAR VIEW

GRAPHIC #1

g00818636

LUBRICATION SYSTEM

126-5464 LINES GP-TURBOCHARGER OIL

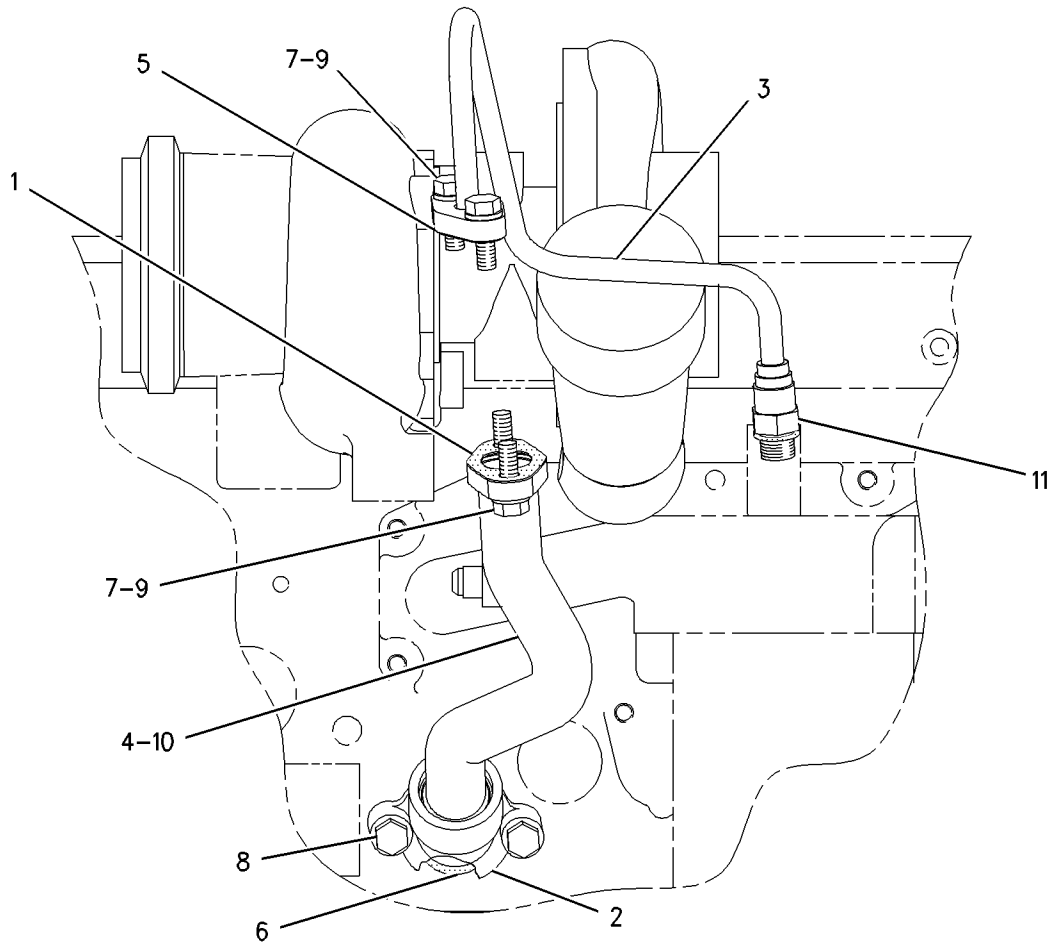
FOR USE WITH STANDARD EXHAUST MANIFOLD
AN ATTACHMENT

SMCS-1052, 1307

i01605277

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-2398	1	GASKET (TURBOCHARGER)						
	2	1	119-2942	1	ADAPTER						
	3	1	164-0217	1	TUBE AS-TURBOCHARGER						
	4	1	164-0218	1	TUBE AS-OIL DRAIN						
	5	1	1S-7057	1	GASKET						
	6	1	4F-7391	1	SEAL-O-RING						
M	7	1	6V-3940	4	BOLT (M8X1.25X25MM)						
M	8	1	6V-5218	2	BOLT (M8X1.25X35MM)						
	9	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	10	1	9M-4849	1	SEAL-O-RING						
	11	1	148-8336	1	CONNECTOR GP						
		1	3J-1907	1	SEAL-O-RING						
		1	6V-8397	1	SEAL-O-RING						
		1	6V-8636	1	CONNECTOR						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00759780

LUBRICATION SYSTEM

159-0285 LINES GP-TURBOCHARGER OIL

FOR USE WITH REAR EXHAUST

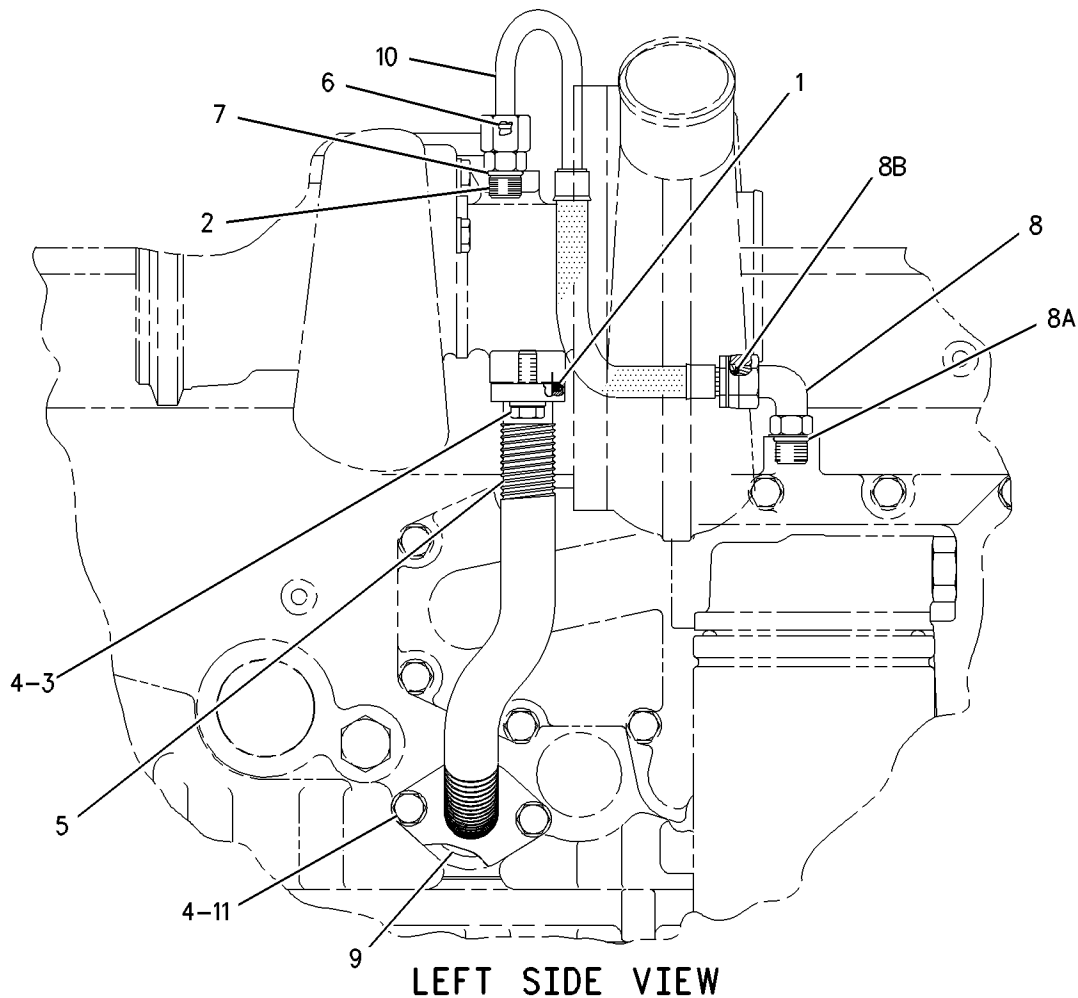
ALSO AN ATTACHMENT

SMCS-1052, 1307

i01622090

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3P-1156	1	SEAL-O-RING						
	2	1	6V-8636	1	CONNECTOR						
M	3	1	6V-3940	2	BOLT (M8X1.25X25MM)						
	4	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	5	1	159-0918	1	TUBE AS-OIL DRAIN						
	6	1	8L-2779	1	SEAL-O-RING						
	7	1	6V-5049	1	SEAL-O-RING						
	8	1	6V-8724	1	ELBOW						
	8A	1	3J-1907	1	SEAL-O-RING						
	8B	1	6V-8397	1	SEAL-O-RING						
	9	1	5P-8066	1	SEAL-O-RING						
	10	1	205-1332	1	HOSE AS						
M	11	1	6V-5217	2	BOLT (M8X1.25X20MM)						

M-METRIC PART



GRAPHIC #1

g00839356

LUBRICATION SYSTEM

198-0030 LINES GP-TURBOCHARGER OIL

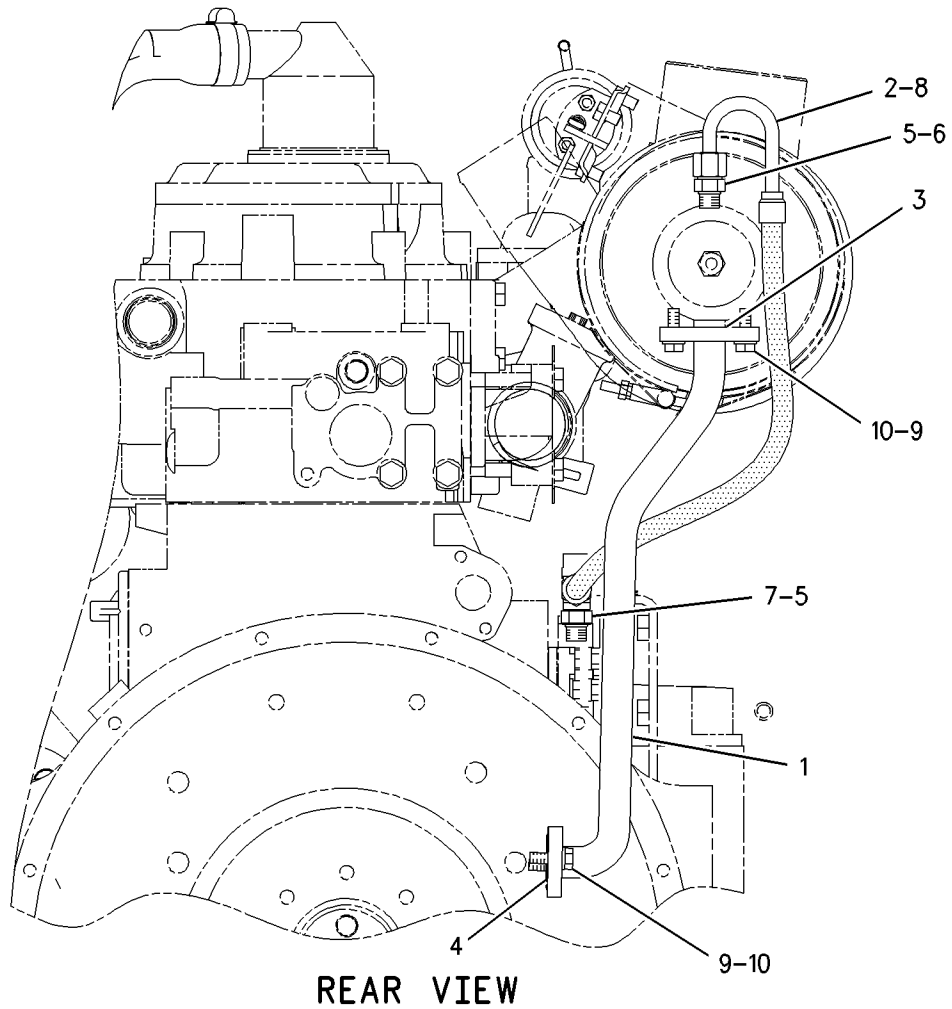
AN ATTACHMENT

SMCS-1052, 1307

i01496196

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-6293	1	TUBE AS-DRAIN						
	2	1	187-6294	1	HOSE AS-OIL SUPPLY						
	3	1	3P-1156	1	SEAL-O-RING						
	4	1	5P-8066	1	SEAL-O-RING						
	5	1	6V-5049	2	SEAL-O-RING						
	6	1	6V-8636	1	CONNECTOR						
	7	1	6V-8724	1	ELBOW						
	8	1	8L-2779	2	SEAL-O-RING						
	9	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	10	1	8T-4908	4	BOLT (M8X1.25X25MM)						

M-METRIC PART



GRAPHIC #1

g00778491

LUBRICATION SYSTEM

198-3440 LINES GP-TURBOCHARGER OIL

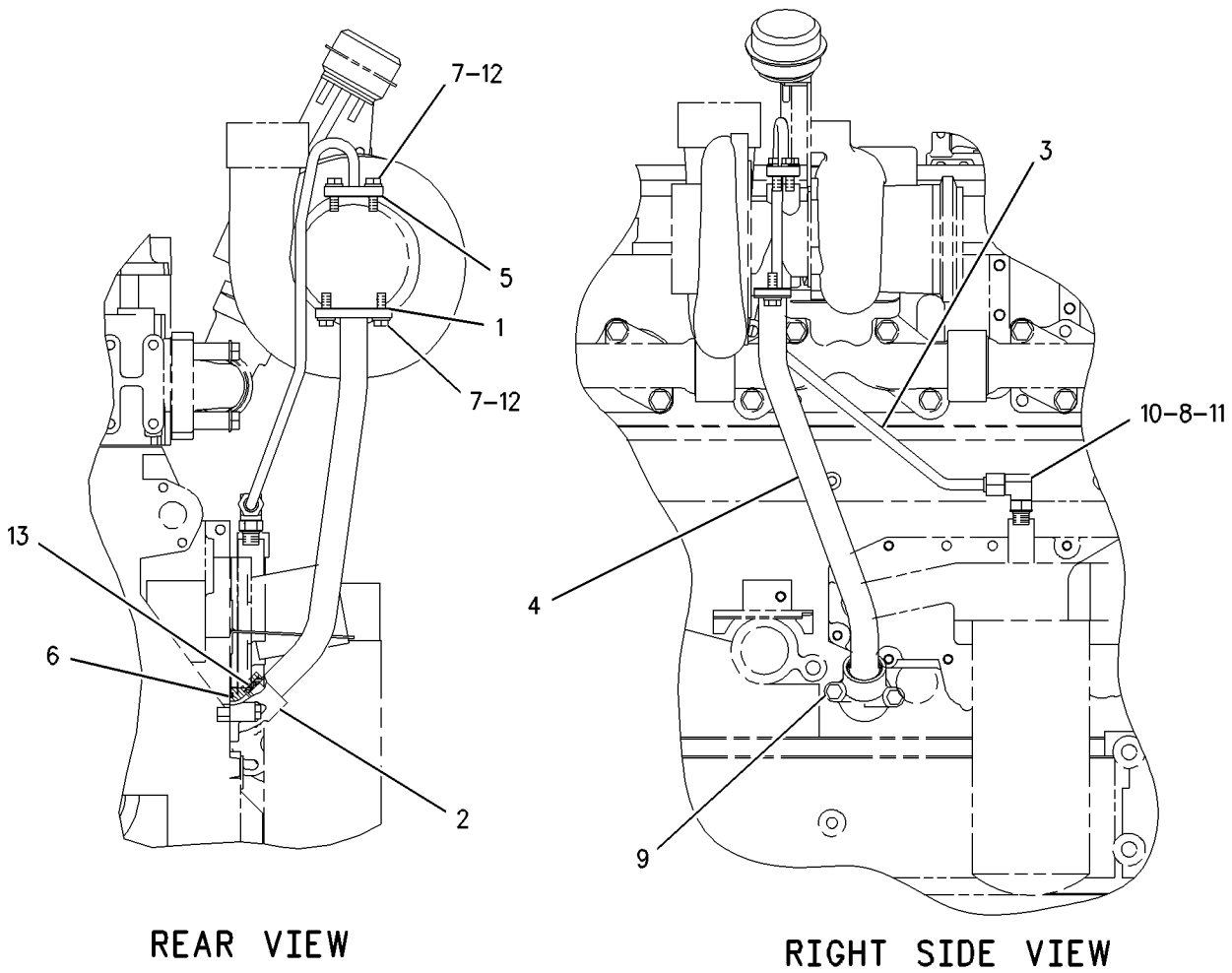
FOR USE WITH FRONT TURBO EXHAUST
AN ATTACHMENT

SMCS-1052, 1307

i01436117

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-2398	1	GASKET						
	2	1	119-2942	1	ADAPTER						
	3	1	198-3441	1	TUBE AS-OIL SUPPLY						
	4	1	198-4706	1	TUBE AS-DRAIN						
	5	1	1S-7057	1	GASKET						
	6	1	4F-7391	1	SEAL-O-RING (32.92MM ID)						
M	7	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	8	1	6V-5049	1	SEAL-O-RING (11.89MM ID)						
M	9	1	6V-5218	2	BOLT (M8X1.25X35MM)						
	10	1	6V-8724	1	ELBOW						
	11	1	8L-2779	1	SEAL-O-RING (9.25MM ID)						
	12	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	13	1	9M-4849	1	SEAL-O-RING (23.16MM ID)						

M-METRIC PART



GRAPHIC #1

g00752679

LUBRICATION SYSTEM

208-9746 LINES GP-TURBOCHARGER OIL

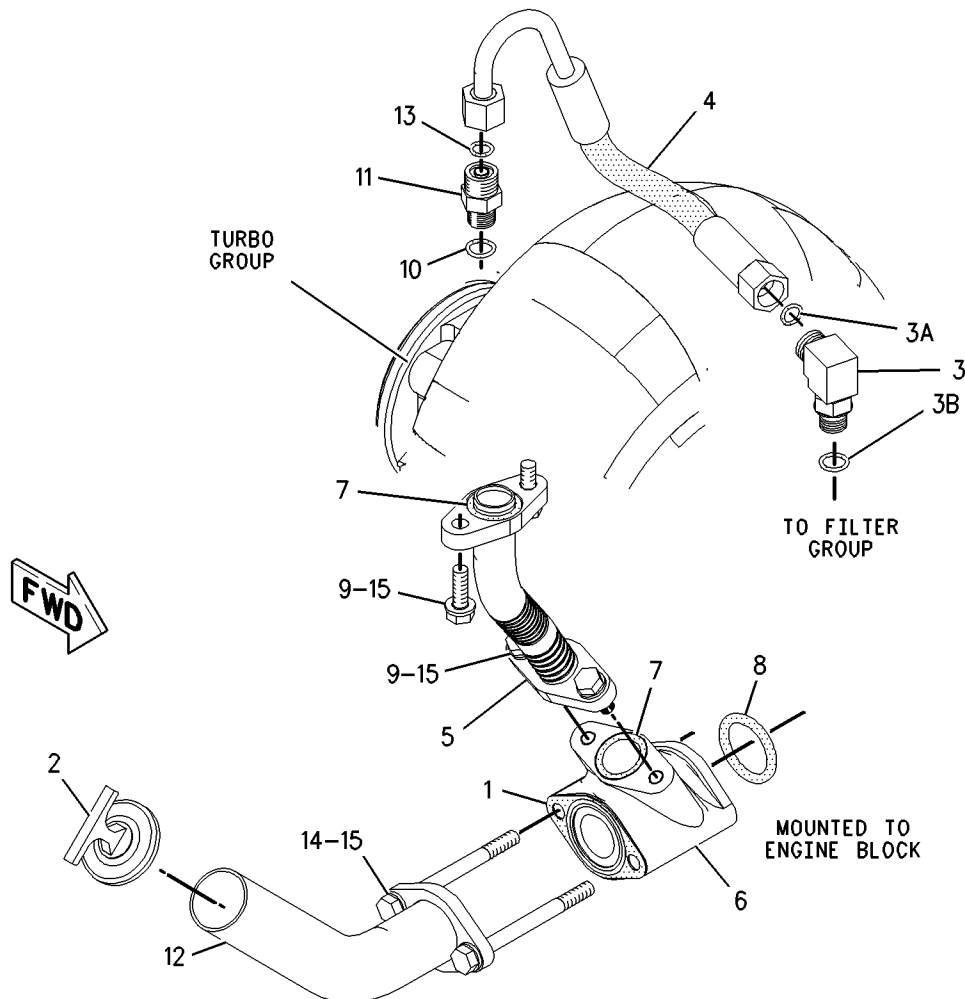
RH FILL AND REAR FACING EXHAUST
AN ATTACHMENT

SMCS-1052, 1307

i01593252

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-0358	1	GASKET						
	2	1	9L-8439	1	CAP-OIL FILLER						
	3	1	6V-8724	1	ELBOW						
	3A	1	6V-8397	1	SEAL-O-RING						
	3B	1	3J-1907	1	SEAL-O-RING						
	4	1	205-1332	1	HOSE AS						
	5	1	208-9747	1	TUBE AS						
	6	1	210-3182	1	ADAPTER						
	7	1	3P-1156	2	SEAL-O-RING						
	8	1	4F-7391	1	SEAL-O-RING						
M	9	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	10	1	6V-5049	1	SEAL-O-RING						
	11	1	6V-8636	1	CONNECTOR						
	12	1	7C-9197	1	TUBE AS						
	13	1	8L-2779	1	SEAL-O-RING						
M	14	1	8T-0292	2	BOLT (M8X1.25X90MM)						
	15	1	9M-1974	6	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00829033

LUBRICATION SYSTEM

209-6336 LINES GP-TURBOCHARGER OIL

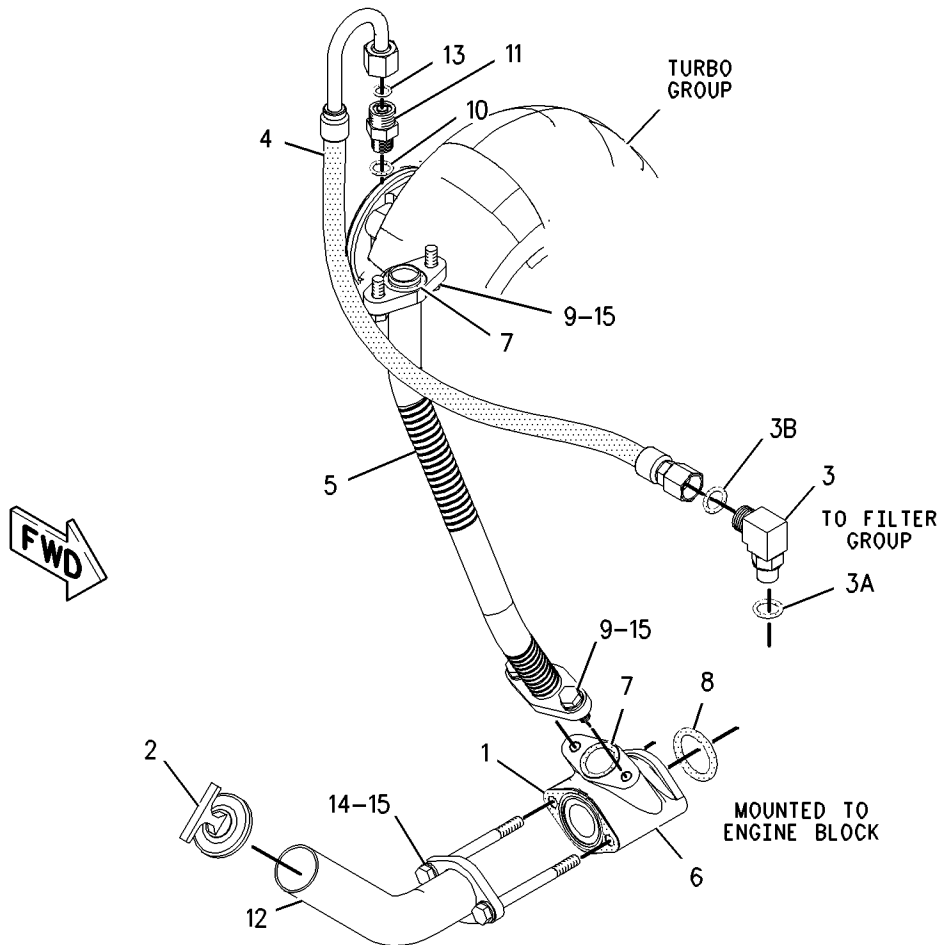
RH FILL AND FRONT FACING EXHAUST
AN ATTACHMENT

SMCS-1052, 1307

i01593253

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-0358	1	GASKET						
	2	1	9L-8439	1	CAP-OIL FILLER						
	3	1	6V-8724	1	ELBOW						
	3A	1	3J-1907	1	SEAL-O-RING						
	3B	1	6V-8397	1	SEAL-O-RING						
	4	1	187-6294	1	HOSE AS-OIL SUPPLY						
	5	1	209-6337	1	TUBE AS						
	6	1	210-3182	1	ADAPTER						
	7	1	3P-1156	2	SEAL-O-RING						
	8	1	4F-7391	1	SEAL-O-RING						
M	9	1	6V-3940	4	BOLT (M8X1.25X25MM)						
	10	1	6V-5049	1	SEAL-O-RING						
	11	1	6V-8636	1	CONNECTOR						
	12	1	7C-9197	1	TUBE AS						
	13	1	8L-2779	1	SEAL-O-RING						
M	14	1	8T-0292	2	BOLT (M8X1.25X90MM)						
	15	1	9M-1974	6	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00829101

LUBRICATION SYSTEM

201-9776 PLUG GP-ENGINE OIL MANIFOLD

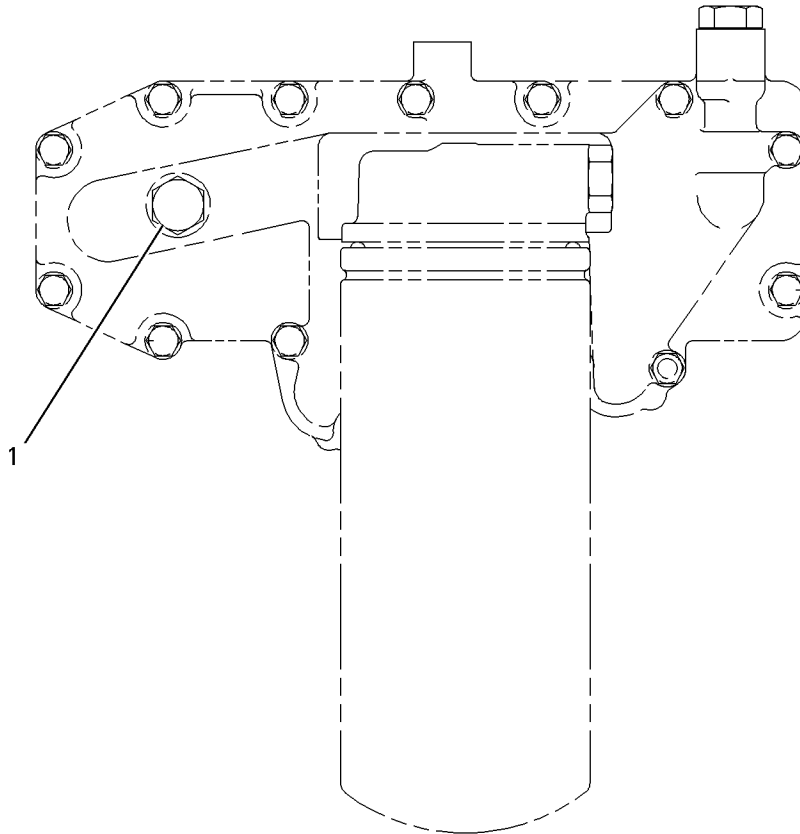
CANNOT BE USED WITH 201-9777-PAGE 272

AN ATTACHMENT

SMCS-1201, 1307

i01622091

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-4185	1	PLUG-O-RING						
		1	3K-0360	1	SEAL-O-RING						



RIGHT SIDE VIEW

GRAPHIC #1

g00839358

LUBRICATION SYSTEM

115-4123 PUMP GP-ENGINE OIL*R

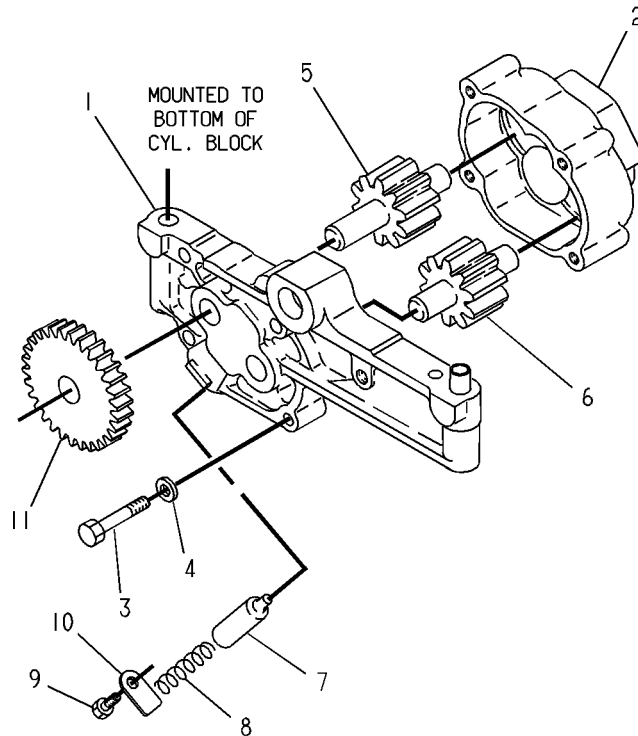
PART OF 115-4138 PUMP GP-ENGINE OIL

SMCS-1304, 1315

i01570079

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2W-8077	1	BODY AS-OIL PUMP						
	2	1	7E-5536	1	BODY-OIL PUMP						
M	3	1	6V-5219	4	BOLT (M8X1.25X40MM)						
	4	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	5	1	115-4074	1	SHAFT AS						
	6	1	115-4116	1	SHAFT AS-IDLER						
	7	1	2W-8078	1	PLUNGER-RELIEF						
	8	1	105-1805	1	SPRING						
M	9	1	6V-5215	1	BOLT (M8X1.25X16MM)						
	10	1	2W-8079	1	WASHER						
	11	1	2W-8085	1	GEAR-PUMP DRIVE (33 TEETH)						

M-METRIC PART



GRAPHIC #1

g00108299

LUBRICATION SYSTEM

115-4138 PUMP GP-ENGINE OIL

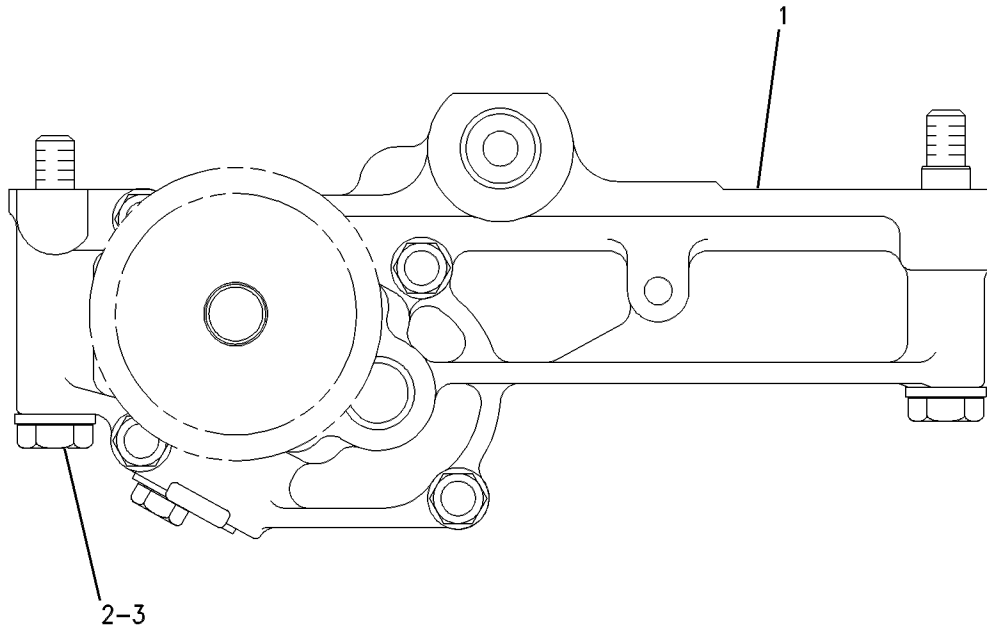
TYPE 1

SMCS-1304, 1315

i01148445

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	115-4123	1	PUMP GP-ENGINE OIL						268
M	2	1	6V-5815	2	BOLT (M10X1.5X75MM)						
	3	1	6V-5839	2	WASHER (2.5MM THK)						

M-METRIC PART
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00609991

LUBRICATION SYSTEM

115-4138 PUMP GP-ENGINE OIL

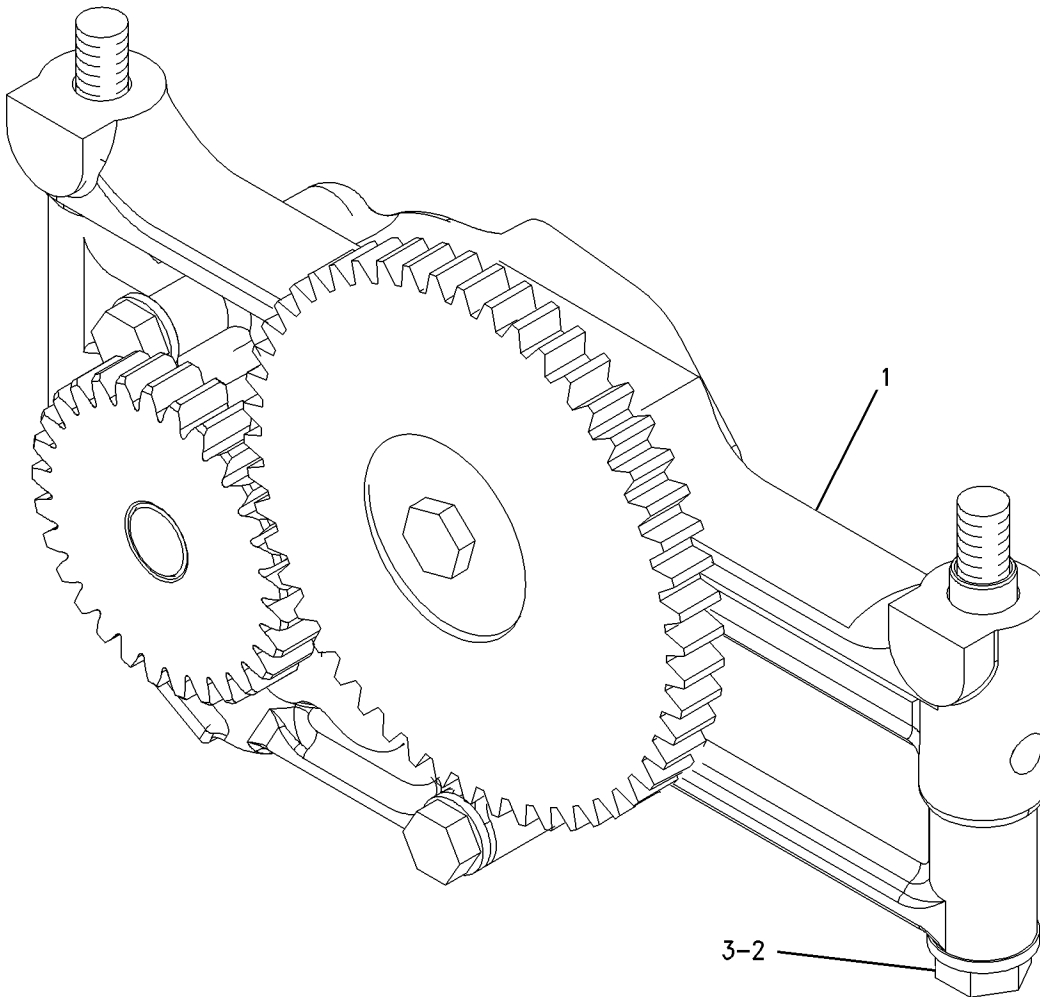
TYPE 2

SMCS-1304, 1315

i01579686

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	200-4497	1	PUMP GP-ENGINE OIL						271
M	2	1	6V-5815	2	BOLT (M10X1.5X75MM)						
	3	1	6V-5839	2	WASHER (11X21X2.5MM THK)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00820272

LUBRICATION SYSTEM

200-4497 PUMP GP-ENGINE OIL

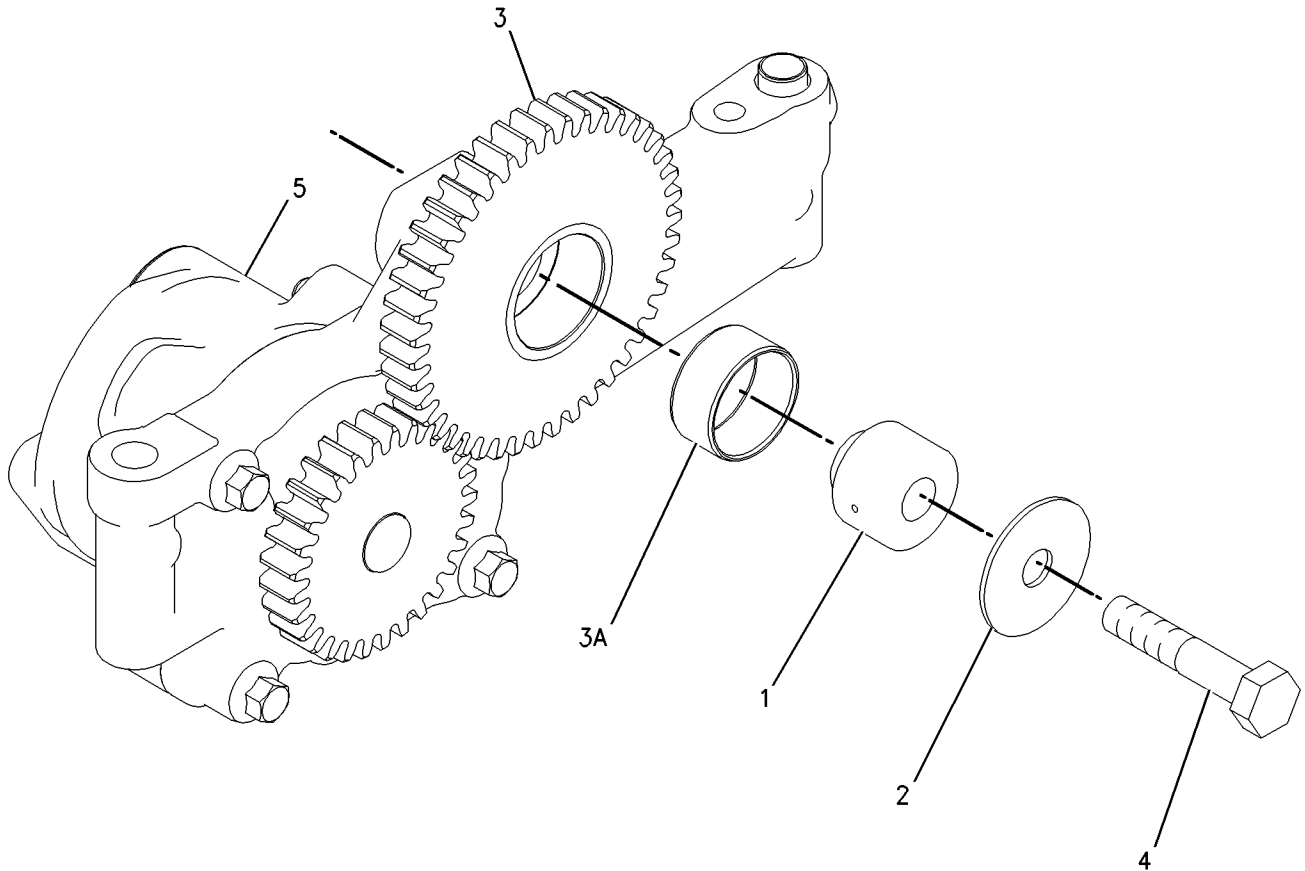
PART OF 115-4138 PUMP GP-ENGINE OIL

SMCS-1304, 1315

i01507893

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-9737	1	SHAFT-OIL PUMP						
	2	1	7W-9738	1	WASHER (10.5X38X1.6MM THK)						
	3	1	7W-9740	1	GEAR AS-IDLER (43 TEETH)						
	3A	1	7W-9930	1	BEARING-SLEEVE						
M	4	1	9X-2305	1	BOLT-LOCKING (M10X1.5 THD)						
	5	1	189-8777	1	PUMP GP-GEROTOR						

M-METRIC PART



GRAPHIC #1

g00775788

LUBRICATION SYSTEM

201-9777 VALVE GP-FLUID SAMPLING

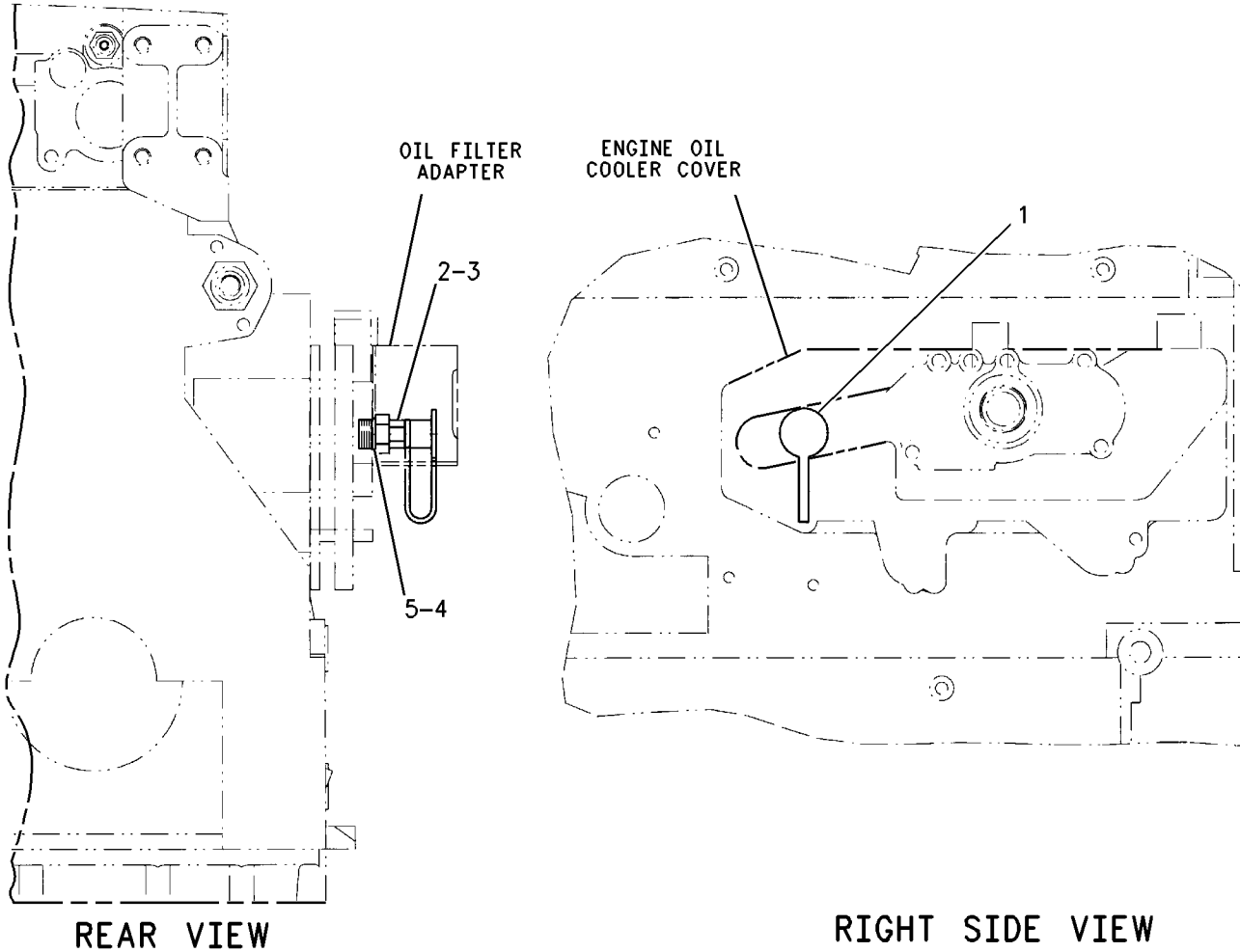
RH

CANNOT BE USED WITH 201-9776—PAGE 267
ALSO AN ATTACHMENT

SMCS-7542

i01529524

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8C-3445	1	CAP-DUST						
	2	1	8C-3446	1	VALVE AS-FLUID SAMPLING						
	3	1	3J-7354	1	SEAL-O-RING						
	4	1	3K-0360	1	SEAL-O-RING						
	5	1	3P-1932	1	ADAPTER						



GRAPHIC #1

g00794255

COOLING SYSTEM

127-5171 ADAPTER GP-FAN

94 MM LONG

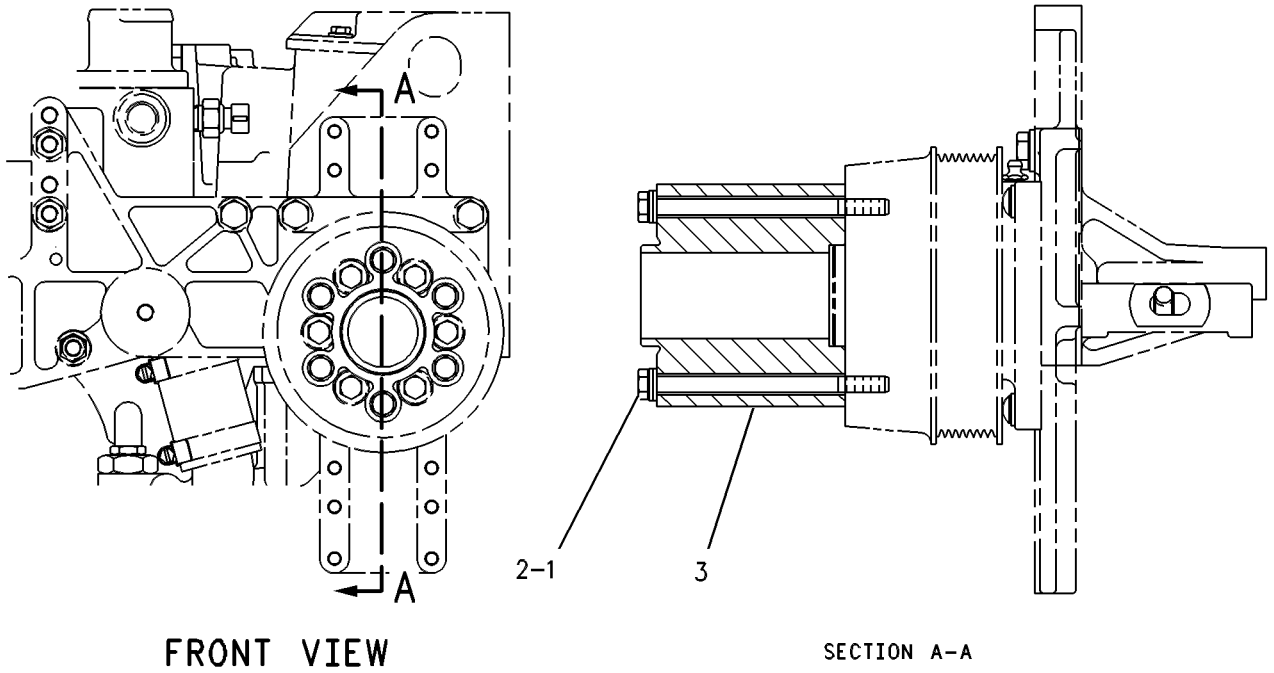
FOR USE WITH FAN PULLEY WITH 50.8 MM (2 IN) PILOT
AN ATTACHMENT

SMCS-1356, 1359

i00813463

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-9607	6	BOLT (M8X1.25X120MM)						
	2	1	9M-1974	12	WASHER-HARD (2MM THK)						
	3	1	104-5320	1	ADAPTER-FAN						

M-METRIC PART



FRONT VIEW

SECTION A-A

GRAPHIC #1

g00256324

COOLING SYSTEM

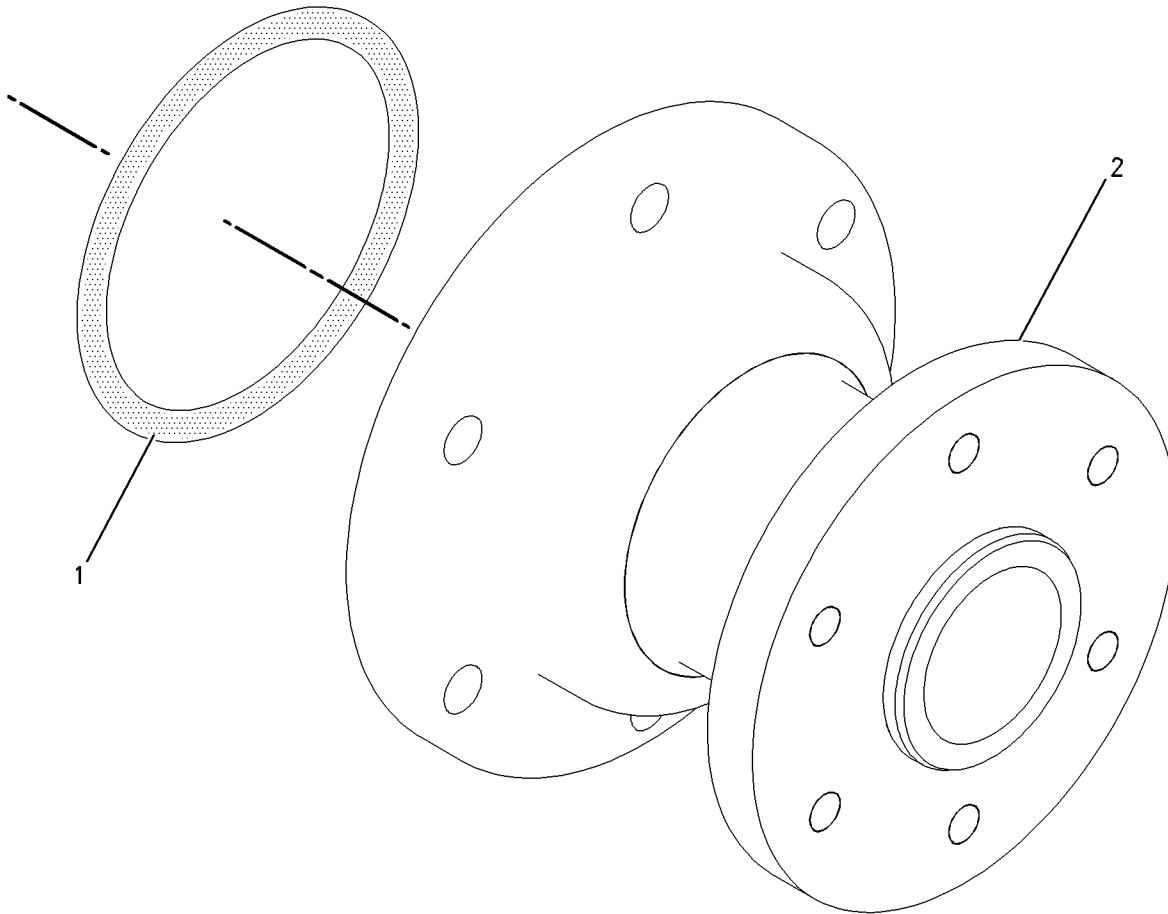
197-8103 ADAPTER GP-FAN

FOR USE WITH 26 INCH SUCTION OR BLOWER FAN HEIGHT
AN ATTACHMENT

SMCS-1356, 1359

i01440972

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9F-4446	1	SEAL-O-RING (78.74MM ID)						
	2	1	197-0650	1	ADAPTER-FAN						



GRAPHIC #1

g00756289

COOLING SYSTEM

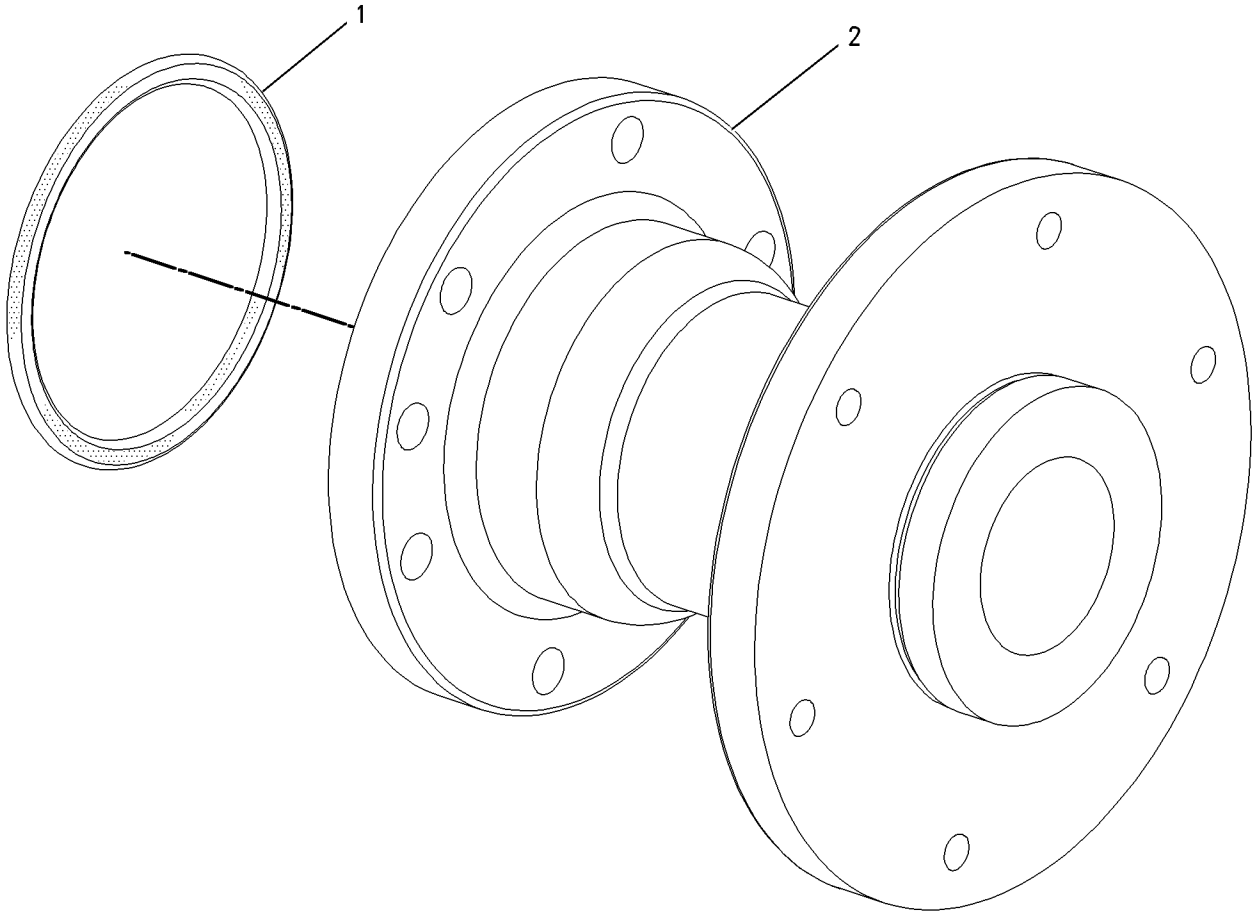
197-8104 ADAPTER GP-FAN

FOR USE WITH 30, 33, OR 36 INCH SUCTION FAN HEIGHTS
AN ATTACHMENT

SMCS-1356, 1359

i01442623

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9F-4446	1	SEAL-O-RING (78.74MM ID)						
	2	1	197-8108	1	ADAPTER-FAN						



GRAPHIC #1

g00755866

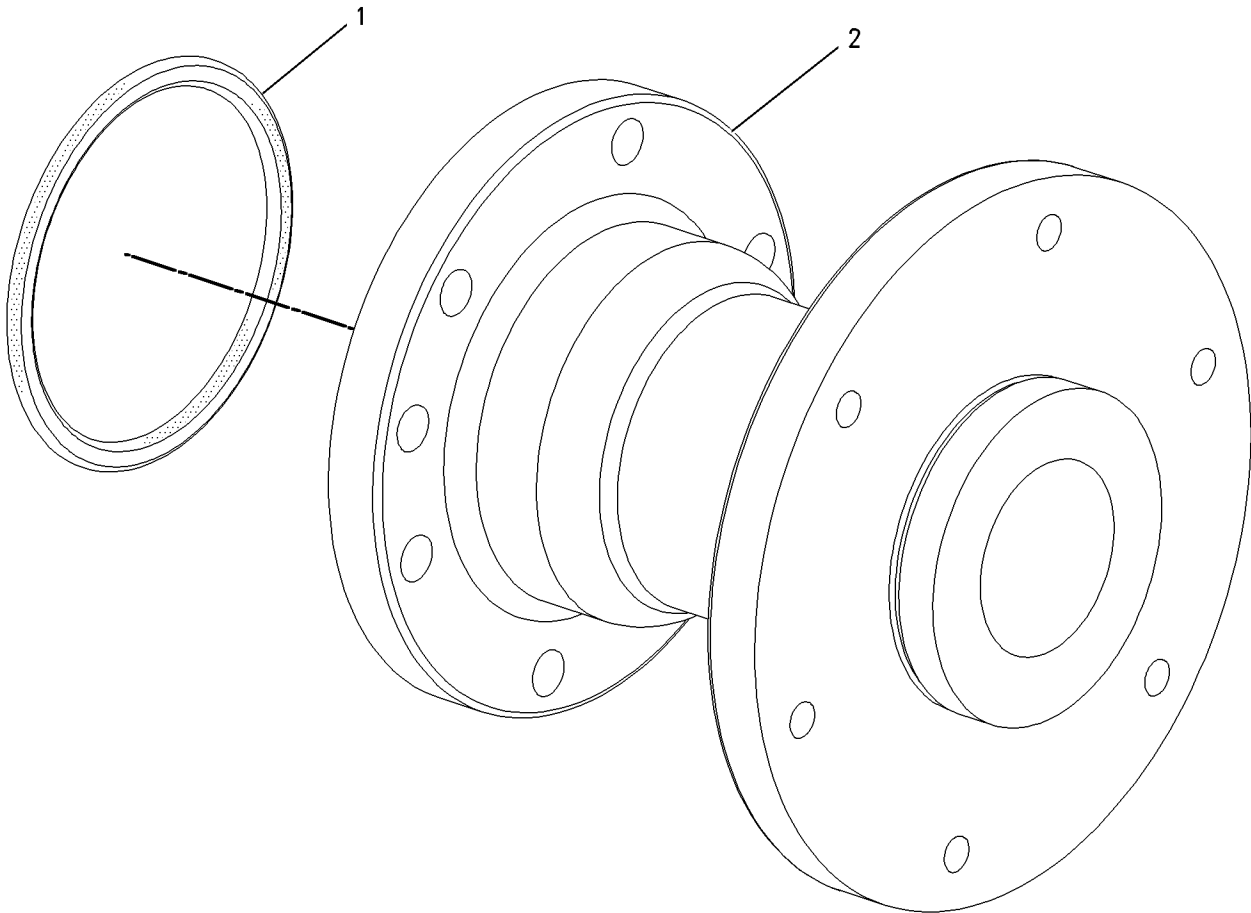
COOLING SYSTEM

197-8105 ADAPTER GP-FAN FOR USE WITH 40 INCH SUCTION FAN HEIGHT AN ATTACHMENT

SMCS-1356, 1359

i01442645

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9F-4446	1	SEAL-O-RING (78.74MM ID)						
	2	1	198-7624	1	ADAPTER-FAN						



GRAPHIC #1

g00755875

COOLING SYSTEM

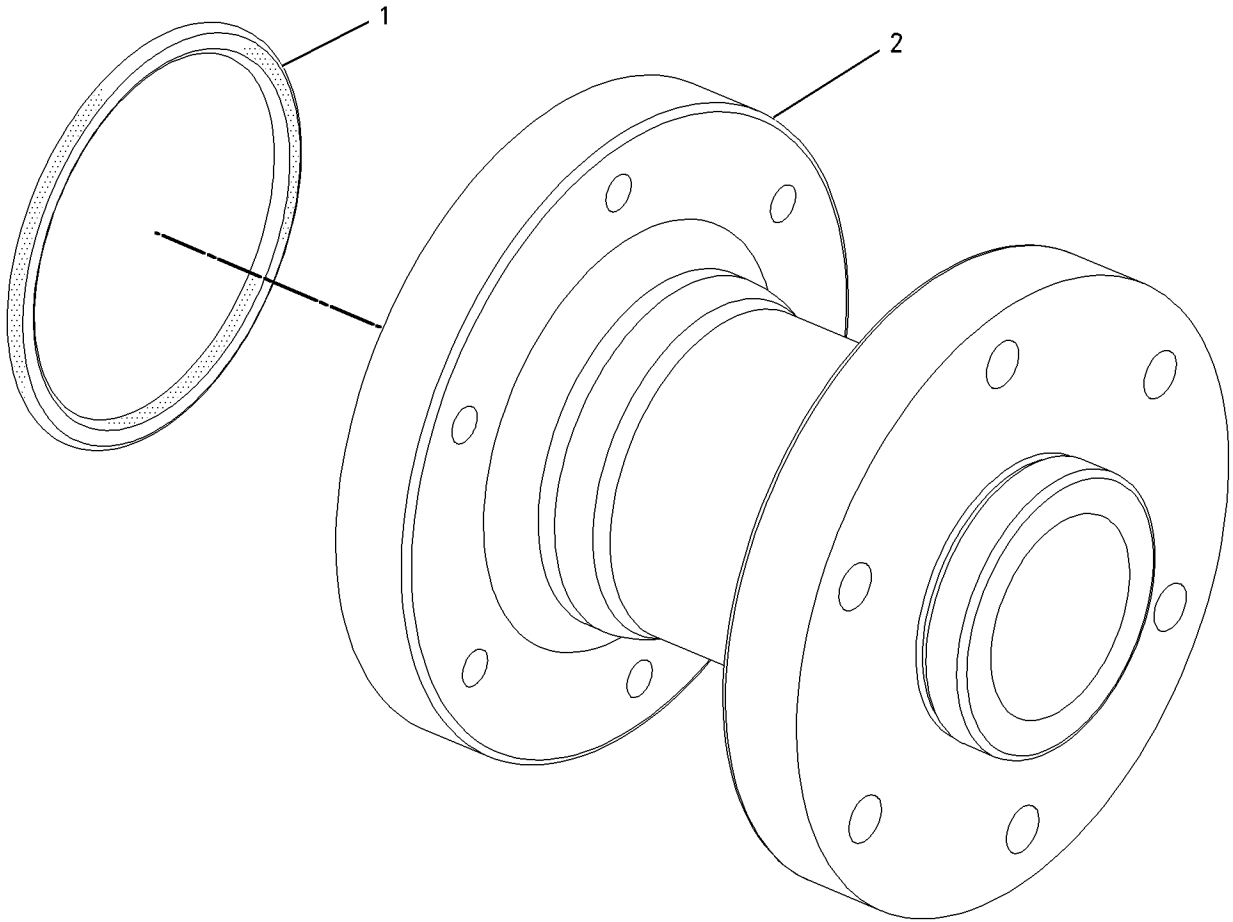
197-8106 ADAPTER GP-FAN

FOR USE WITH 30, 33, OR 36 INCH BLOWER FAN HEIGHTS
AN ATTACHMENT

SMCS-1356, 1359

i01442667

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9F-4446	1	SEAL-O-RING (78.74MM ID)						
	2	1	131-8154	1	ADAPTER-FAN						



GRAPHIC #1

g00755882

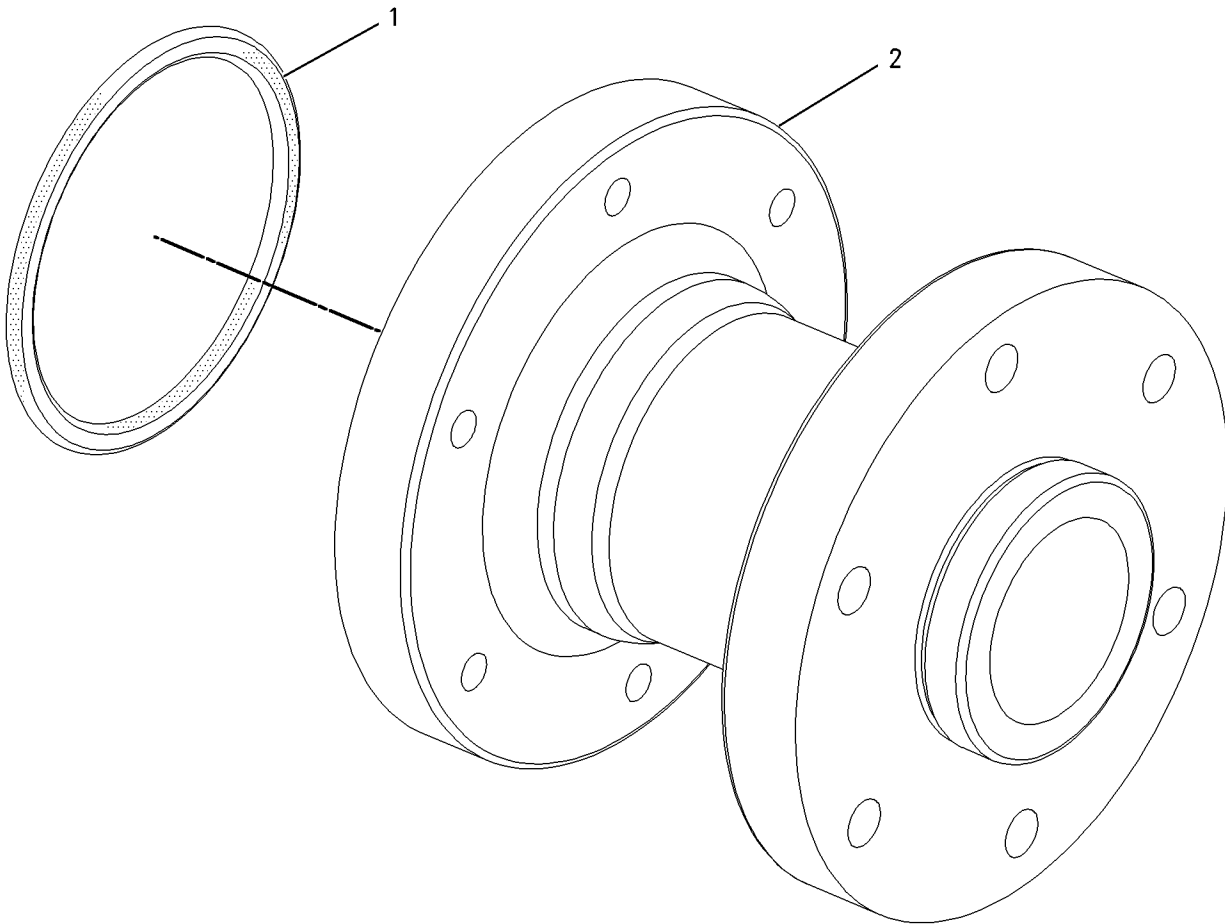
COOLING SYSTEM

197-8107 ADAPTER GP-FAN FOR USE WITH 40 INCH BLOWER FAN HEIGHT AN ATTACHMENT

SMCS-1356, 1359

i01442669

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9F-4446	1	SEAL-O-RING (78.74MM ID)						
	2	1	130-5917	1	ADAPTER-FAN						



GRAPHIC #1

g00755888

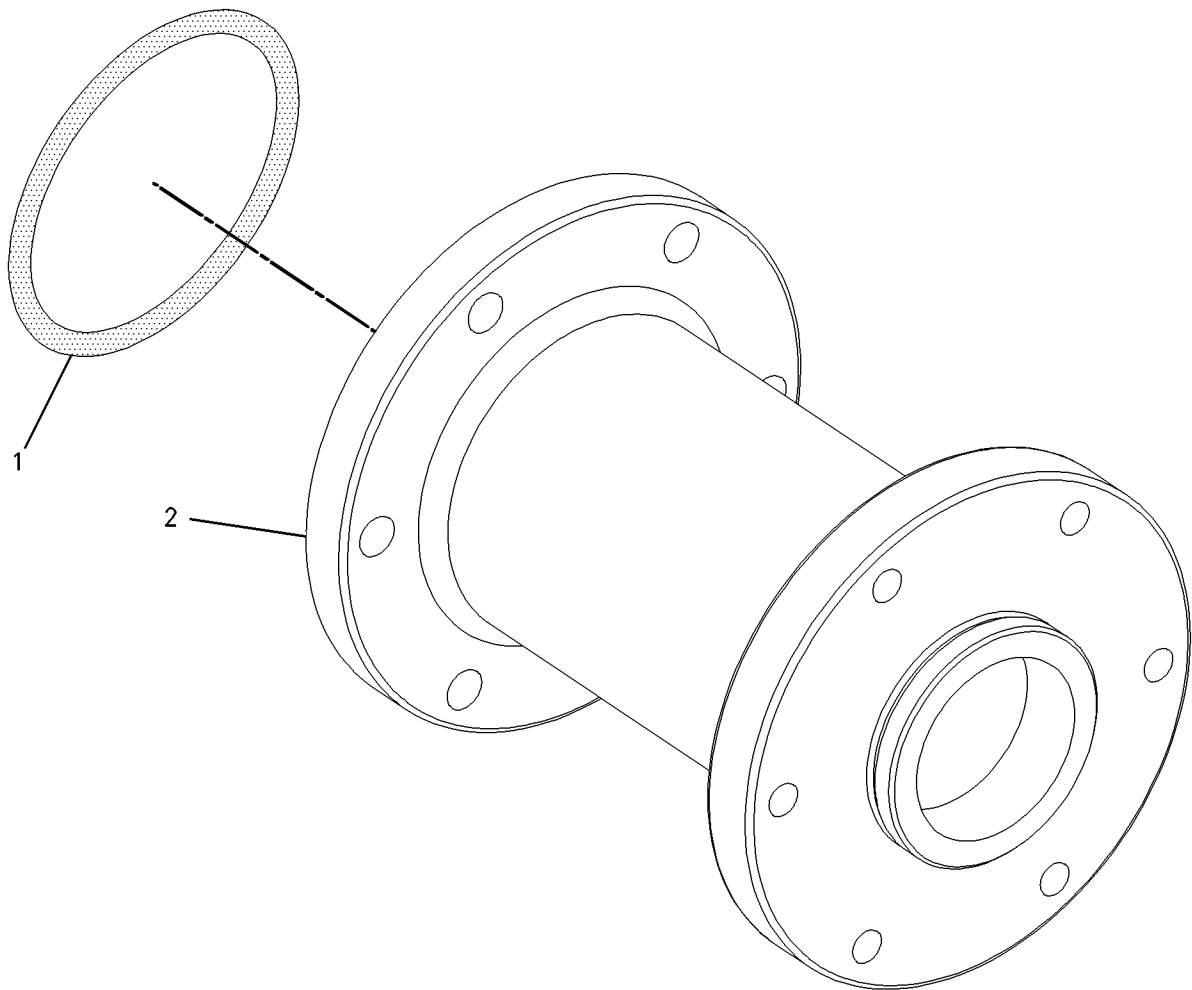
COOLING SYSTEM

201-9770 ADAPTER GP-FAN AN ATTACHMENT

SMCS-1356, 1359

i01523035

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9F-4446	1	SEAL-O-RING						
	2	1	107-4902	1	SPACER-FAN						



GRAPHIC #1

g00791220

COOLING SYSTEM

117-3643 COOLER GP-ENGINE OIL

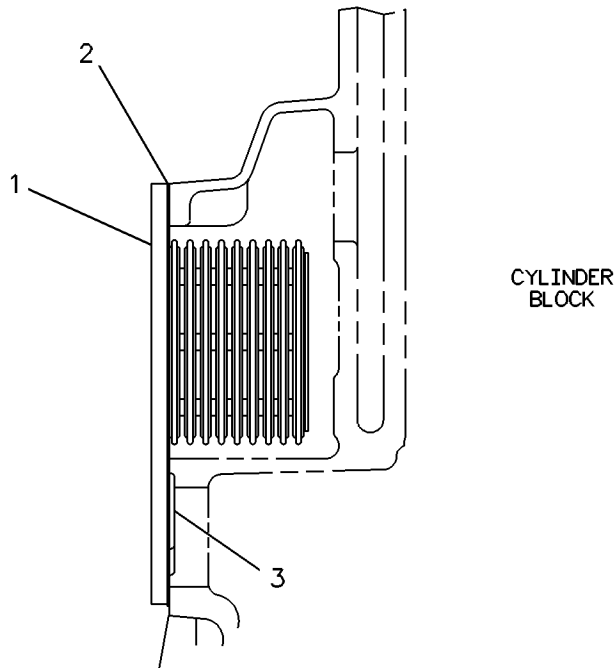
RH MOUNTED

SMCS-1378

i01461325

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-8595	1	CORE AS						
	2	1	7C-1160	1	GASKET						
M	3	1	8M-4445	2	SEAL-O-RING						

M-METRIC PART



GRAPHIC #1

g00117316

COOLING SYSTEM

4N-2569 FAN GP-BLOWER

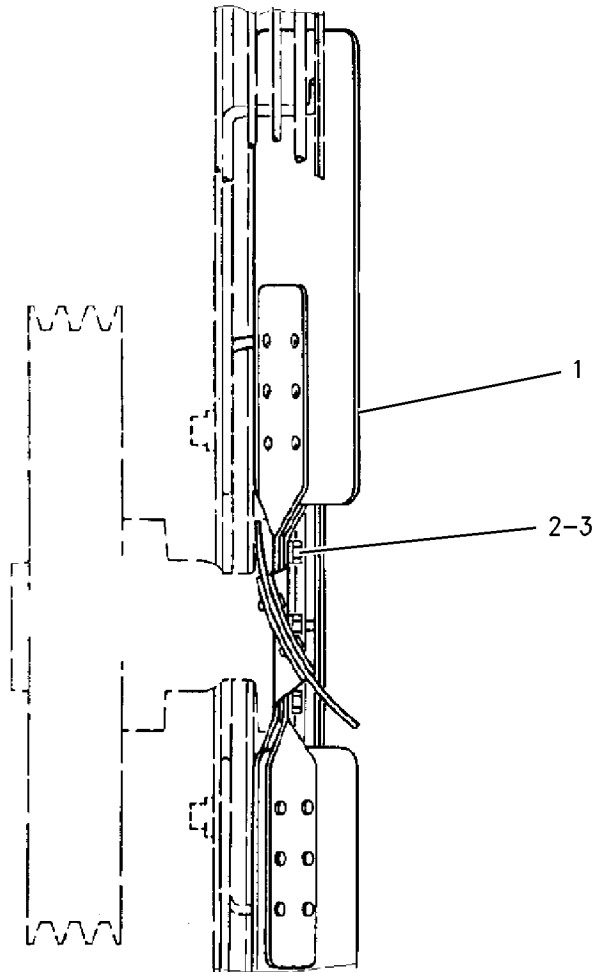
838 MM (33 INCH)

AN ATTACHMENT

SMCS-1356

i01472933

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-2571	1	SPIDER AS-BLOWER FAN (6 BLADE)						
	2	1	8T-2502	6	BOLT (3/8-16X1.125 IN)						
	3	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5MM THK)						



GRAPHIC #1

g00727447

COOLING SYSTEM

4N-3093 FAN GP-BLOWER

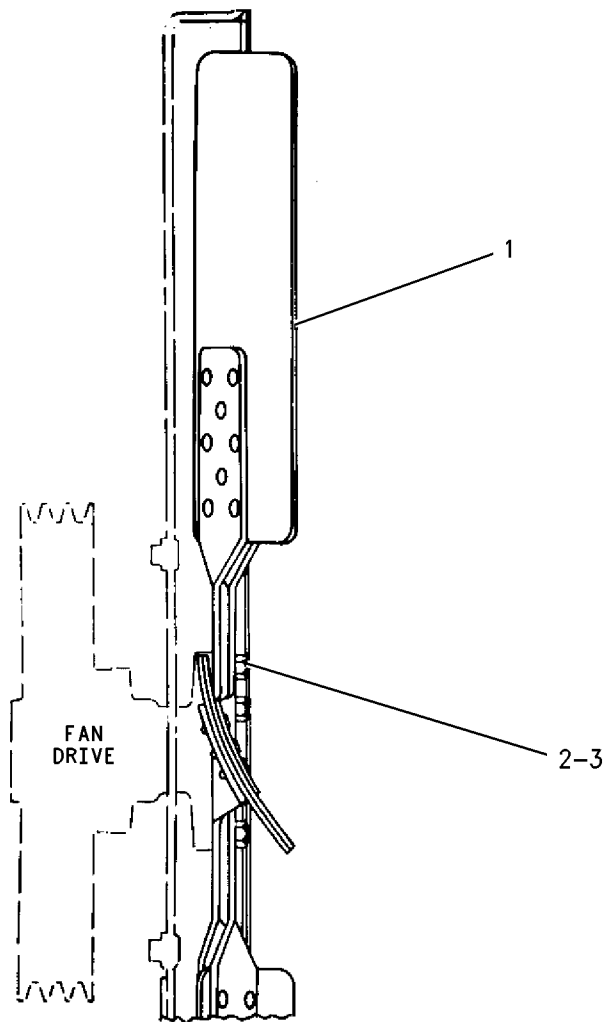
1016 MM (40 INCH)

AN ATTACHMENT

SMCS-1356

i01472932

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-3091	1	SPIDER AS (8 BLADE)						
	2	1	5P-2566	6	BOLT (1/2-13X1.5 IN)						
	3	1	8T-4223	6	WASHER-HARD (13.5X25.5X3MM THK)						



GRAPHIC #1

g00723269

COOLING SYSTEM

7C-7463 FAN GP-BLOWER

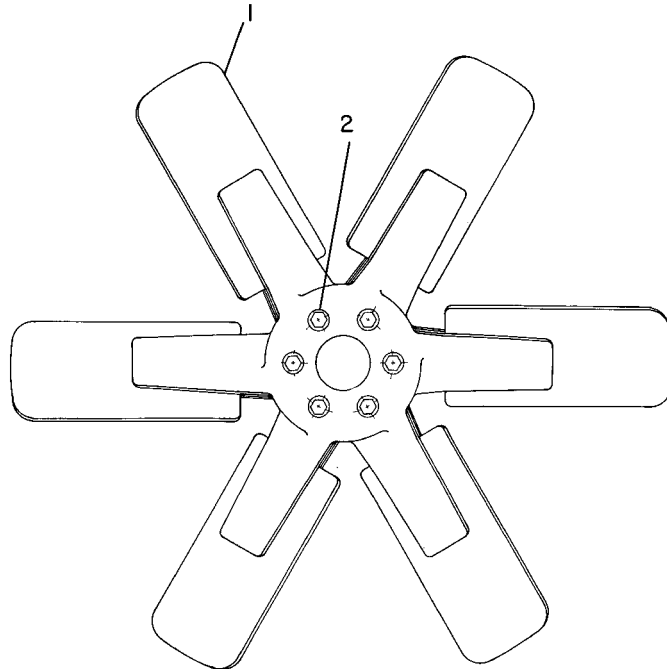
762MM (30IN)

FOR USE WITH AIR-TO-AIR AFTERCOOLED AIR
AN ATTACHMENT

SMCS-1356

i00649494

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-7464	1	SPIDER AS-BLOWER						
	2	1	1A-2029	6	BOLT (3/8-16X1.125IN)						
		1	5M-2894	6	WASHER (2.5MM THK)						



GRAPHIC #1

g00194895

COOLING SYSTEM

197-8110 FAN GP-BLOWER

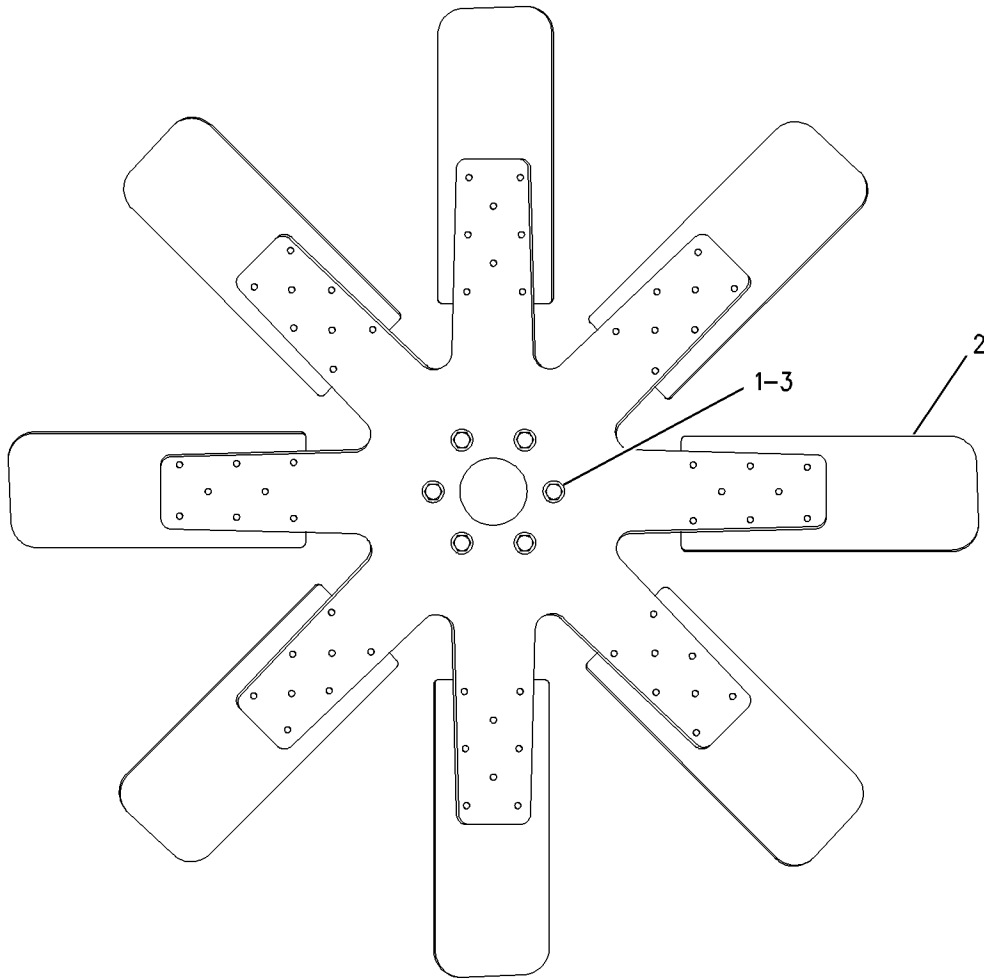
914MM (36 IN)

AN ATTACHMENT

SMCS-1356

i01440063

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0S-1591	6	BOLT (3/8-16X1.5 IN)						
	2	1	7C-4624	1	SPIDER AS						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5MM THK)						



GRAPHIC #1

g00754381

COOLING SYSTEM

198-7626 FAN GP-BLOWER

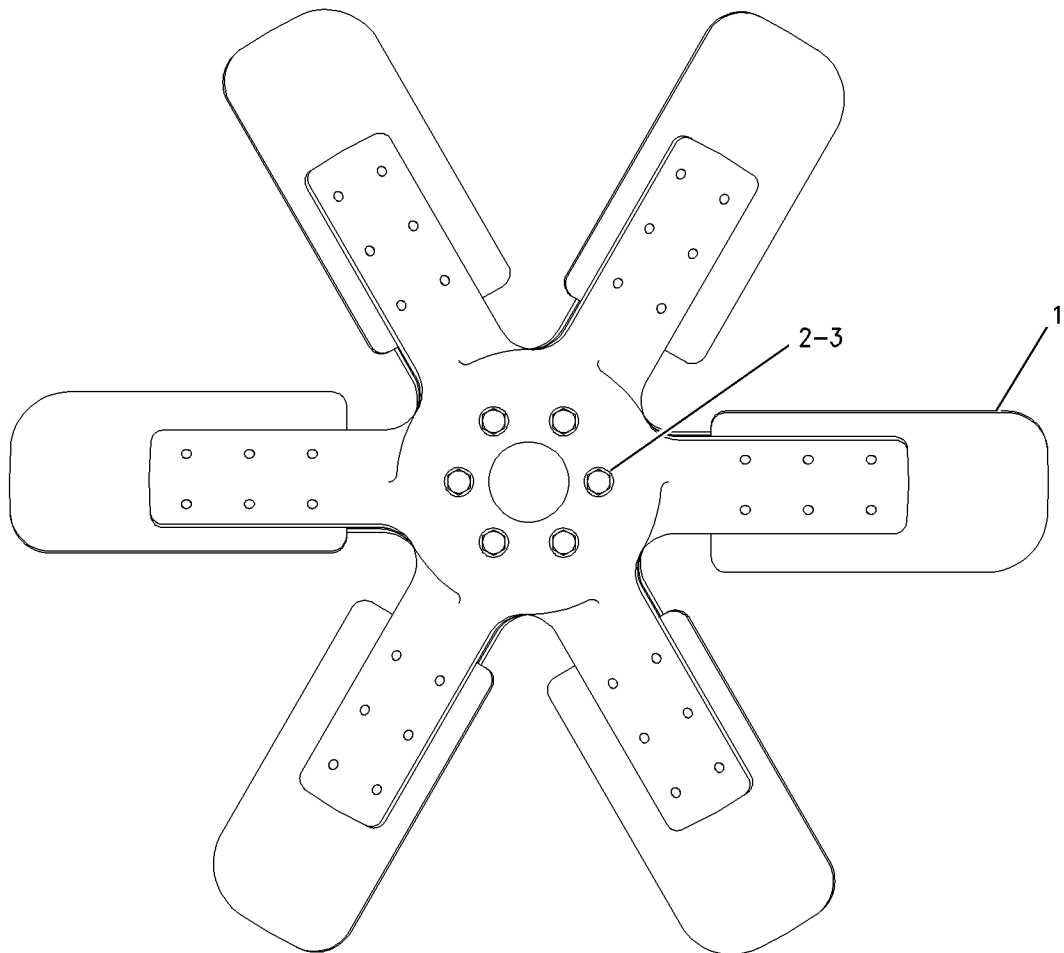
660MM (26 IN)

AN ATTACHMENT

SMCS-1356

i01440908

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	104-6413	1	SPIDER AS-BLOWER FAN						
	2	1	1A-2029	6	BOLT (3/8-16X1.125 IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5MM THK)						



GRAPHIC #1

g00754388

COOLING SYSTEM

4N-2570 FAN GP-SUCTION

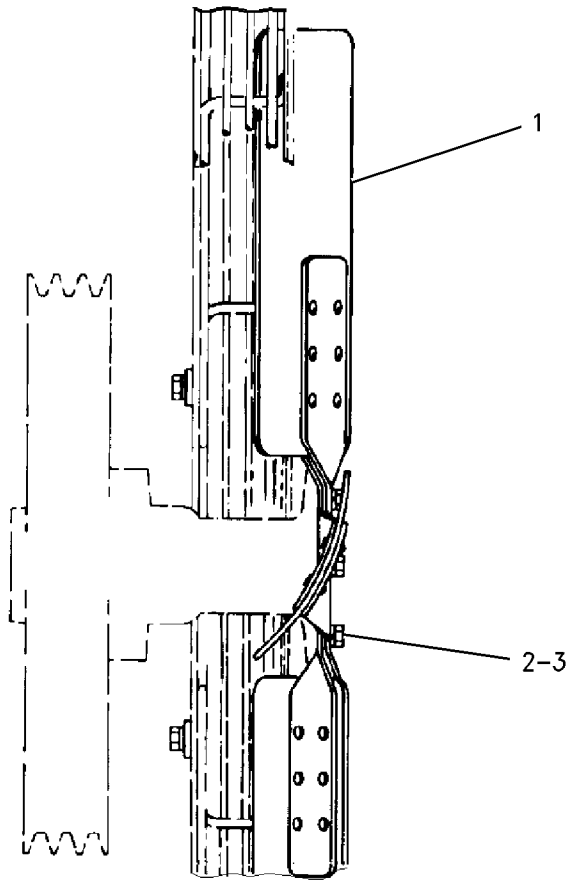
838 MM (33 INCH) DIAMETER

AN ATTACHMENT

SMCS-1356

i01517204

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-2572	1	SPIDER AS-FAN (6 BLADE)						
	2	1	8T-2502	6	BOLT (3/8-16X1.125 IN)						
	3	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5MM THK)						



RIGHT SIDE VIEW

GRAPHIC #1

g00787102

COOLING SYSTEM

4N-3094 FAN GP-SUCTION

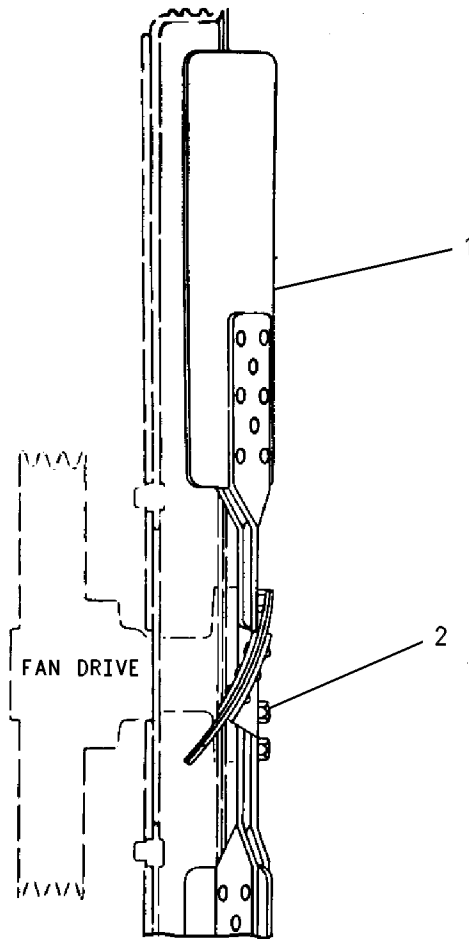
1016 MM (40 INCH)

AN ATTACHMENT

SMCS-1356

i01472926

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-3092	1	SPIDER AS (8 BLADE)						
	2	1	0S-1585	6	BOLT (1/2-13X1.50 IN)						
		1	2M-0849	6	WASHER-HARD (13.5X25.5X5MM THK)						



GRAPHIC #1

g00567378

COOLING SYSTEM

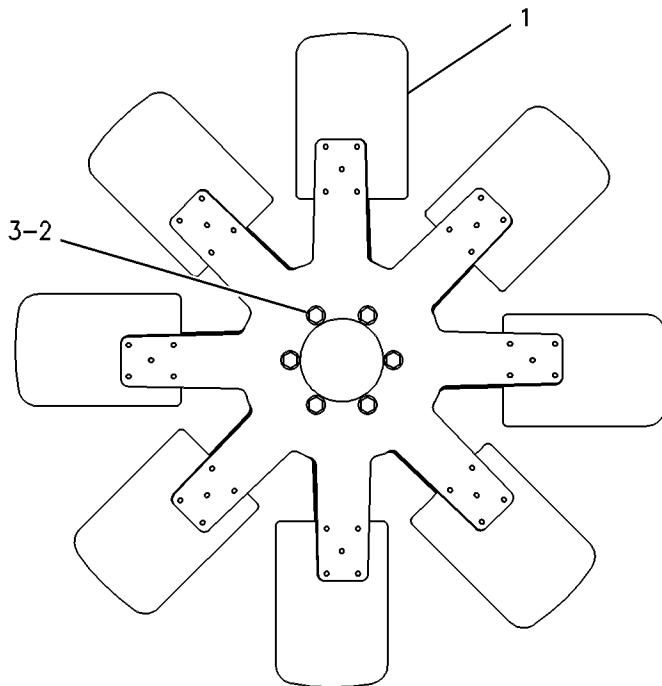
135-2036 FAN GP-SUCTION

762MM (30IN)
AN ATTACHMENT

SMCS-1356

i00637416

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9L-5958	1	SPIDER AS-FAN (8 BLADES)						
	2	1	1A-2029	6	BOLT (3/8-16X1.125IN)						
	3	1	5M-2894	6	WASHER (2.5MM THK)						



GRAPHIC #1

g00261318

COOLING SYSTEM

197-8109 FAN GP-SUCTION

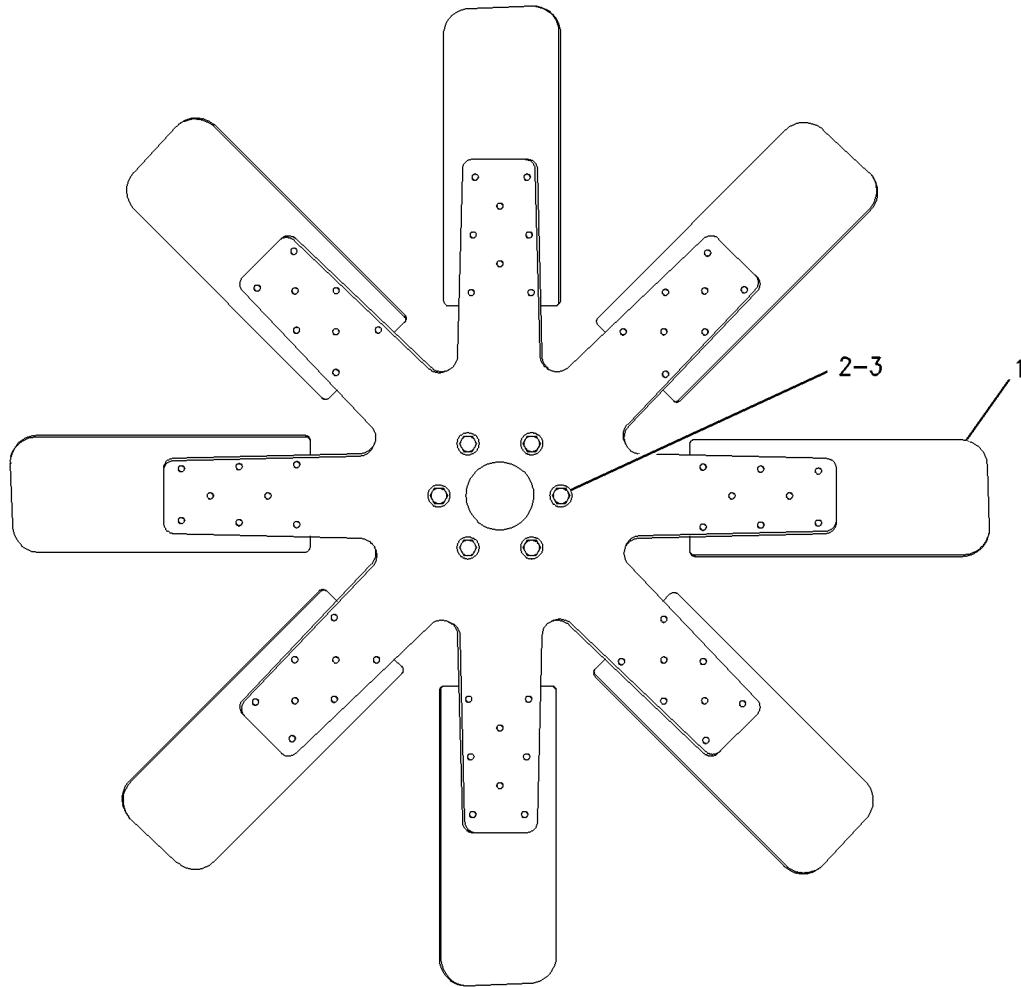
914MM (36 IN)

AN ATTACHMENT

SMCS-1356

i01440014

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-4625	1	SPIDER AS-FAN						
	2	1	0S-1591	6	BOLT (3/8-16X1.5 IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5MM THK)						



GRAPHIC #1

g00754377

COOLING SYSTEM

198-7625 FAN GP-SUCTION

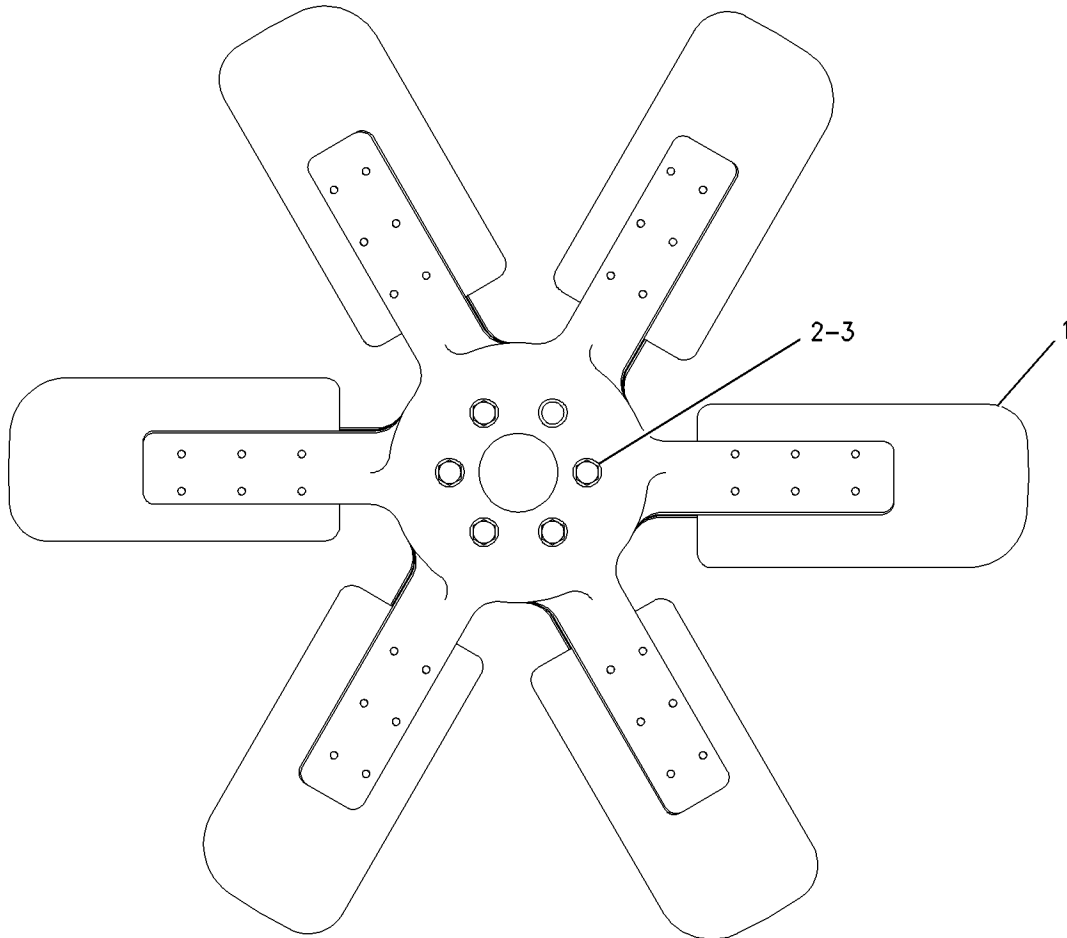
660MM (26 IN)

AN ATTACHMENT

SMCS-1356

i01440907

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	104-6414	1	SPIDER AS-SUCTION FAN						
	2	1	1A-2029	6	BOLT (3/8-16X1.125 IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5MM THK)						



GRAPHIC #1

g00754385

COOLING SYSTEM

7C-8630 GUARD GP-RADIATOR

DUCT FLANGE

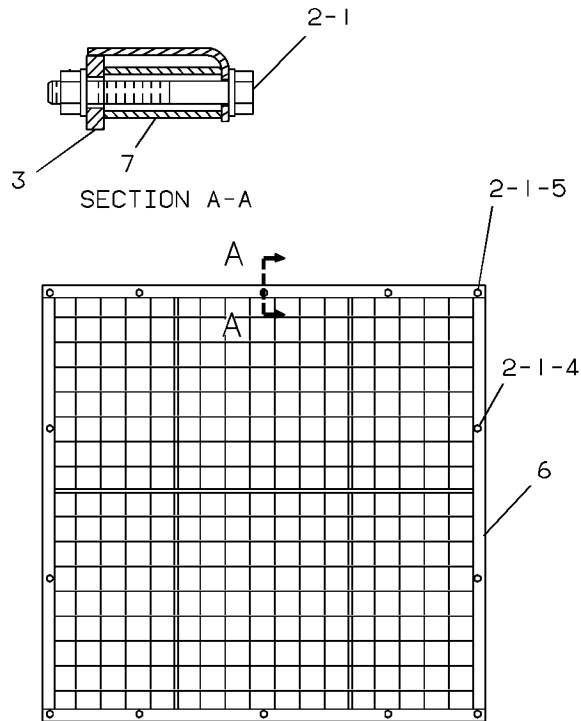
PART OF 208-3038 RADIATOR GP
FOR USE WITH AIR-TO-AIR AFTERCOOLED AR
AN ATTACHMENT

SMCS-7155

i01523116

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	9M-1974	14	WASHER-HARD (8.8X16X2MM THK)						
	2	1	1D-4539	14	BOLT (5/16-18X2.5 IN)						
C	3	1	7E-6086	2	BAR AS						
	(EACH INCLUDES)										
C		1	4K-9097	3	NUT-WELD (5/16-18 THD)						
	4	1	061-9325	4	PIPE						
	5	1	3H-4656	4	SPACER (1.5 IN THK)						
	6	1	7C-8629	1	FLANGE AS-DUCT						
	7	1	9W-1991	6	SPACER (13.94X17.14X40MM THK)						

C-CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

g00221539

COOLING SYSTEM

141-8278 LINES GP-WATER

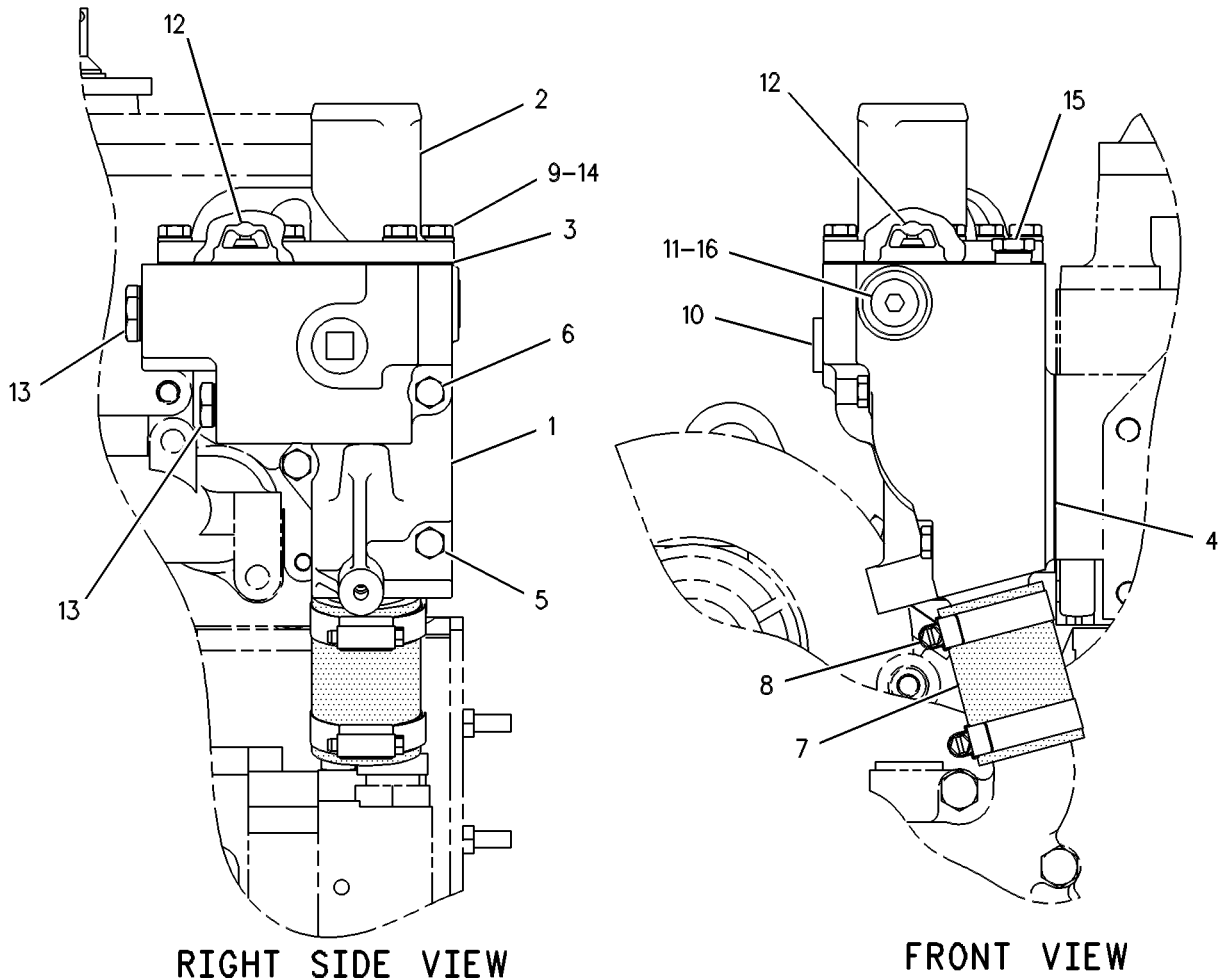
**PROVIDES WATER LINES WITH STRAIGHT UP CONNECTOR WITHOUT BYPASS
ALSO AN ATTACHMENT**

SMCS-1380

i01314763

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-3730	1	HOUSING-WATER REGULATOR						
	2	1	160-5131	1	PIPE						
	3	1	136-0812	1	GASKET-WATER REGULATOR						
	4	1	126-5466	1	GASKET						
M	5	1	5P-8347	2	BOLT (M8X1.25X70MM)						
M	6	1	6V-5223	1	BOLT (M8X1.25X100MM)						
E	7	1	7E-0759		HOSE (7.6CM)						
	8	1	127-4471	2	CLAMP-HOSE						
M	9	1	6V-3940	6	BOLT (M8X1.25X25MM)						
	10	1	7X-7731	1	PLUG-PIPE (3/4-14 NPTF THD)						
	11	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						
	12	1	115-4223	2	REGULATOR-WATER TEMPERATURE						
	13	1	7W-6492	3	PLUG-PIPE (1/2-14 NPTF THD)						
	14	1	9M-1974	6	WASHER-HARD (2MM THK)						
	15	1	8T-6767	1	PLUG-PIPE (3/8-18 NPTF THD)						
	16	1	9S-8005	1	PLUG-O-RING (3/4-16 THD)						

E- ORDER BY THE CENTIMETER
M- METRIC PART



GRAPHIC #1

g00287303

COOLING SYSTEM

141-8279 LINES GP-WATER

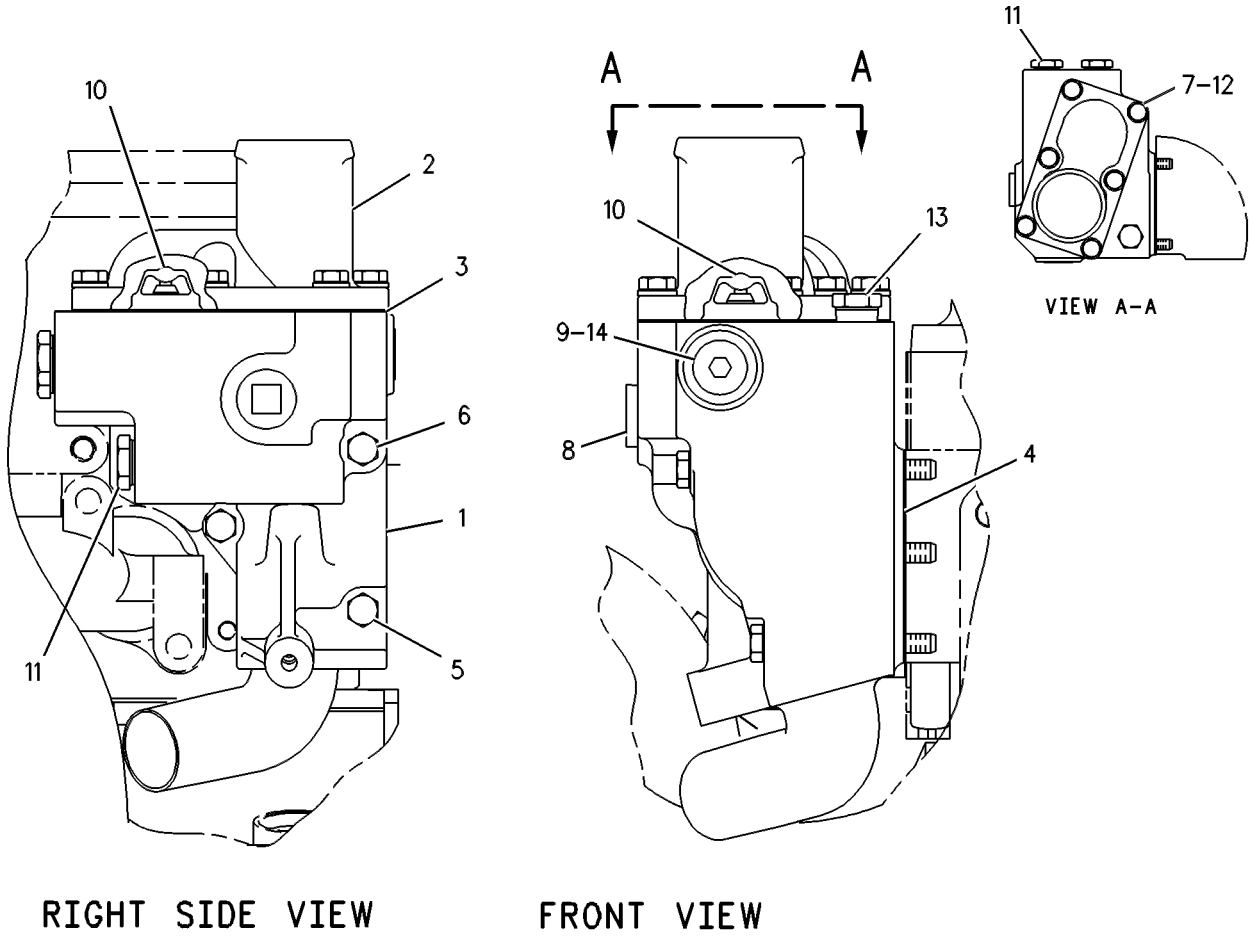
**PROVIDES WATER LINES W/DUAL 190 DEG F THERMOSTAT, VERTICAL WATER OUTLET TUBE,
AND WATER BYPASS FOR AUTOMATIC TRANSMISSION RETARDER/COOLER
AN ATTACHMENT**

SMCS-1380

i01327861

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	141-8276	1	HOUSING-WATER REGULATOR						
	2	1	160-5131	1	PIPE						
	3	1	136-0812	1	GASKET-WATER REGULATOR						
	4	1	126-5466	1	GASKET						
M	5	1	5P-8347	2	BOLT (M8X1.25X70MM)						
M	6	1	6V-5223	1	BOLT (M8X1.25X100MM)						
M	7	1	6V-3940	6	BOLT (M8X1.25X25MM)						
	8	1	7X-7731	1	PLUG-PIPE (3/4-14 NPTF THD)						
	9	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						
	10	1	115-4223	2	REGULATOR-WATER TEMPERATURE						
	11	1	7W-6492	3	PLUG-PIPE (1/2-14 NPTF THD)						
	12	1	9M-1974	6	WASHER-HARD (2MM THK)						
	13	1	8T-6767	1	PLUG-PIPE (3/8-18 NPTF THD)						
	14	1	9S-8005	1	PLUG-O-RING (3/4-16 THD)						

M-METRIC PART



GRAPHIC #1

g00288079

COOLING SYSTEM

146-8127 LINES GP-WATER

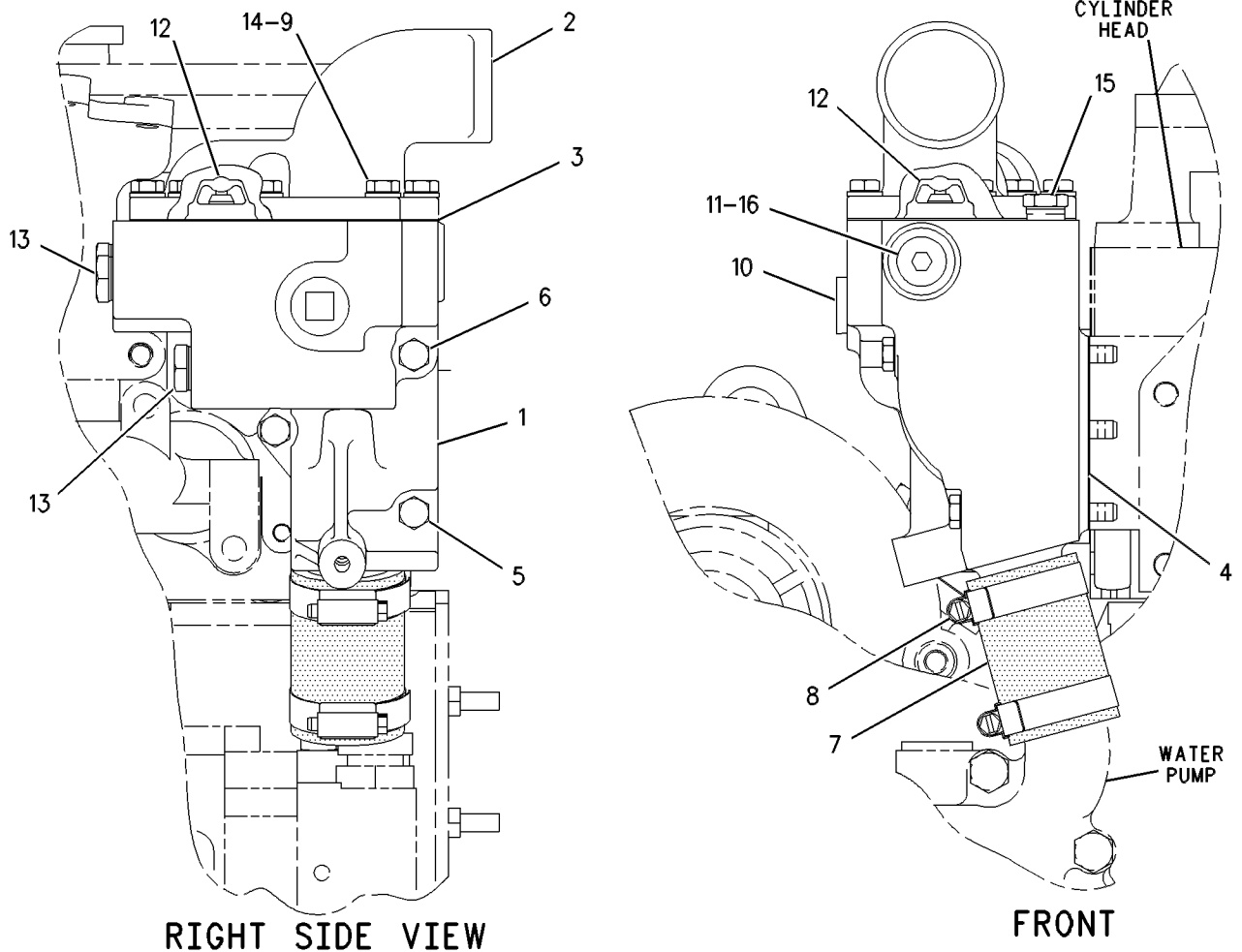
PROVIDES WATER LINES W/A DUAL THERMOSTAT OUTLET ELBOW FACING THE FRONT OF THE ENGINE
AN ATTACHMENT

SMCS-1380

i01327864

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	133-3730	1	HOUSING-WATER REGULATOR						
	2	1	146-8126	1	ELBOW						
	3	1	136-0812	1	GASKET-WATER REGULATOR						
	4	1	126-5466	1	GASKET						
M	5	1	5P-8347	2	BOLT (M8X1.25X70MM)						
M	6	1	6V-5223	1	BOLT (M8X1.25X100MM)						
	7	1	7E-0759	1	HOSE						
	8	1	127-4471	2	CLAMP-HOSE						
M	9	1	6V-3940	6	BOLT (M8X1.25X25MM)						
	10	1	7X-7731	1	PLUG-PIPE (3/4-14 NPTF THD)						
	11	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						
	12	1	119-3075	2	REGULATOR-WATER TEMPERATURE						
	13	1	7W-6492	3	PLUG-PIPE (1/2-14 NPTF THD)						
	14	1	9M-1974	6	WASHER-HARD (2MM THK)						
	15	1	8T-6767	1	PLUG-PIPE (3/8-18 NPTF THD)						
	16	1	9S-8005	1	PLUG-O-RING (3/4-16 THD)						

M-METRIC PART



GRAPHIC #1

g00290353

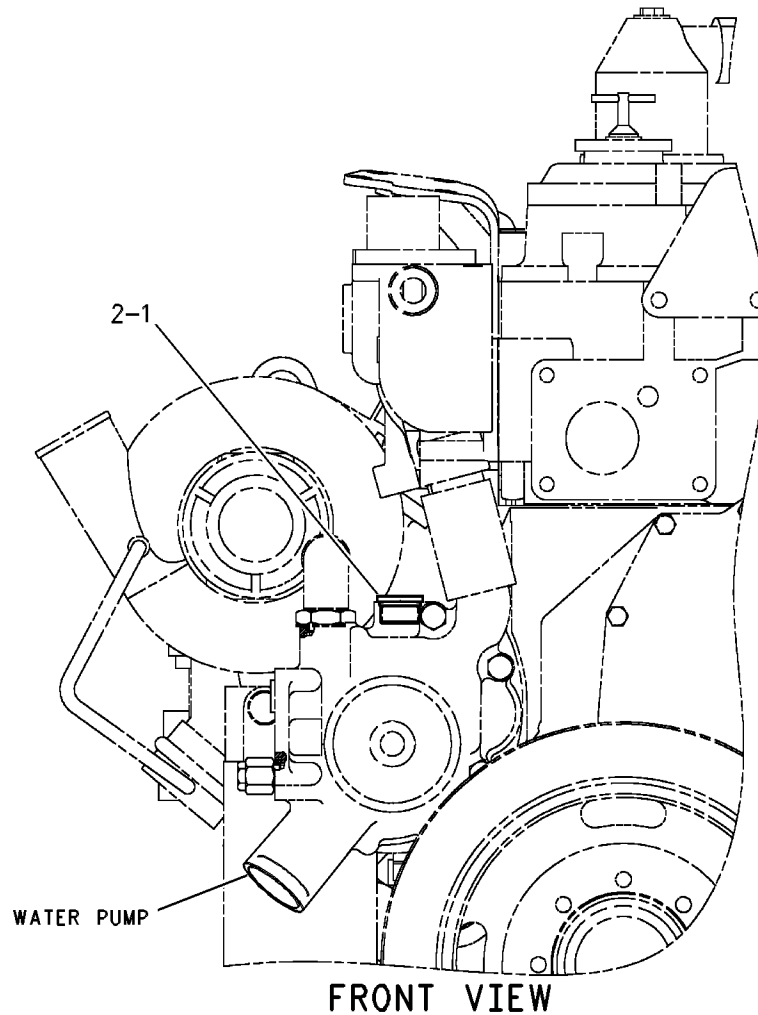
COOLING SYSTEM

160-7075 PLUG GP-WATER LINES USE TO PLUG WATER PUMP WHEN NO AIR COMPRESSOR IS USED ALSO AN ATTACHMENT

SMCS-1380

i01538605

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-8008	1	PLUG-O-RING						
	2	1	3D-2824	1	SEAL-O-RING						



FRONT VIEW

GRAPHIC #1

g00528975

COOLING SYSTEM

117-3433 PUMP GP-WATER

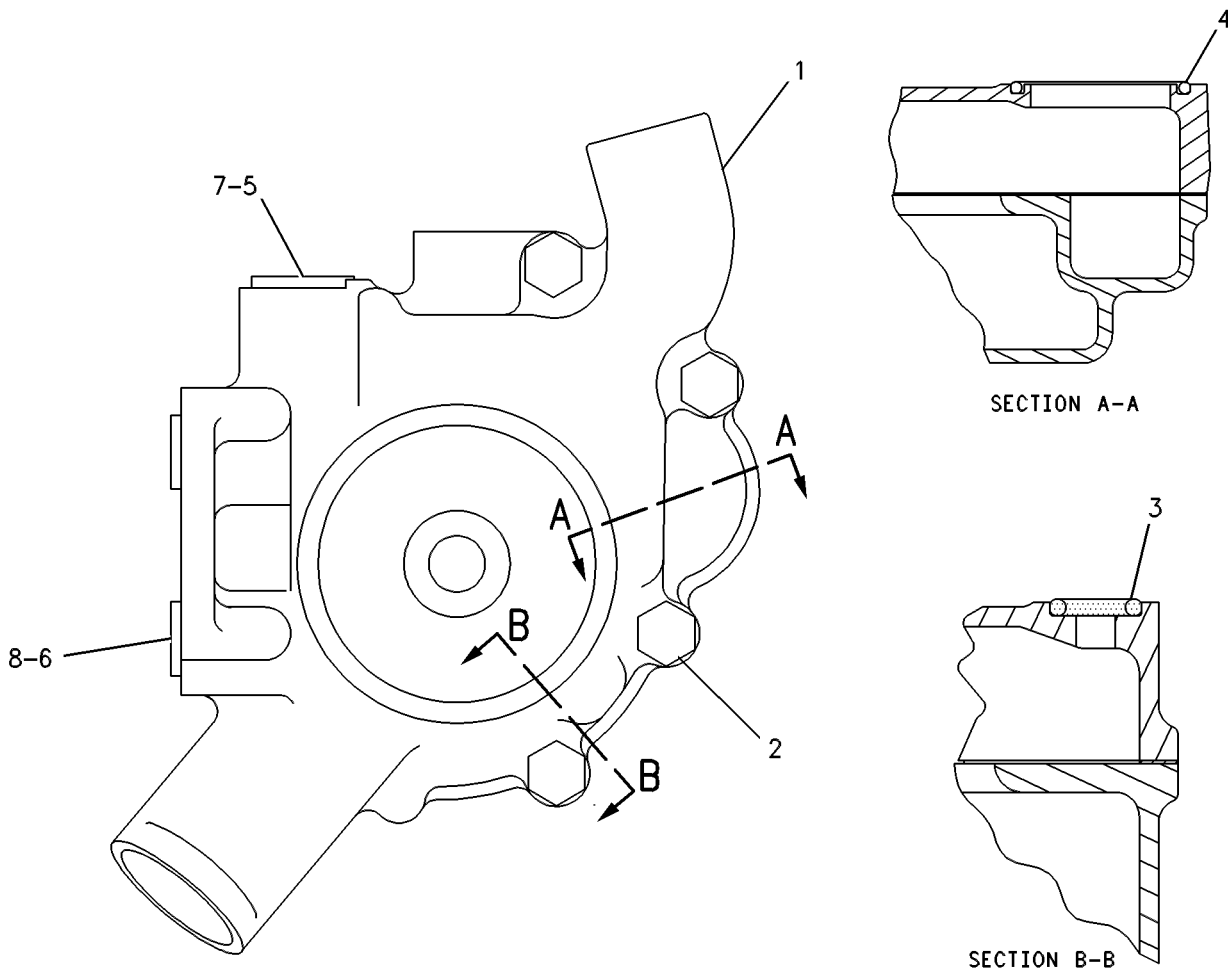
PROVIDES WATER PUMP WITHOUT 90 DEGREE ELBOW
CANNOT BE USED WITH WATER BYPASS
AN ATTACHMENT

SMCS-1361

i00646924

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	120-8402	1	PUMP GP-WATER						297
M	2	1	8T-0644	4	BOLT (M10X1.50X90MM)						
	3	1	2M-4453	1	SEAL-O-RING						
	4	1	7F-8267	1	SEAL-O-RING (47.2MM ID)						
	5	1	9S-8008	1	PLUG-O-RING (1 1/16-12 THD)						
	6	1	9S-8005	1	PLUG-O-RING (3/4-16 THD)						
	7	1	3D-2824	1	SEAL-O-RING (23.47MM ID)						
	8	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						

M- METRIC PART
R- REMFG PART MAY BE AVAILABLE
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

g00256489

COOLING SYSTEM

120-8402 PUMP GP-WATER*R

PART OF 117-3433 PUMP GP-WATER

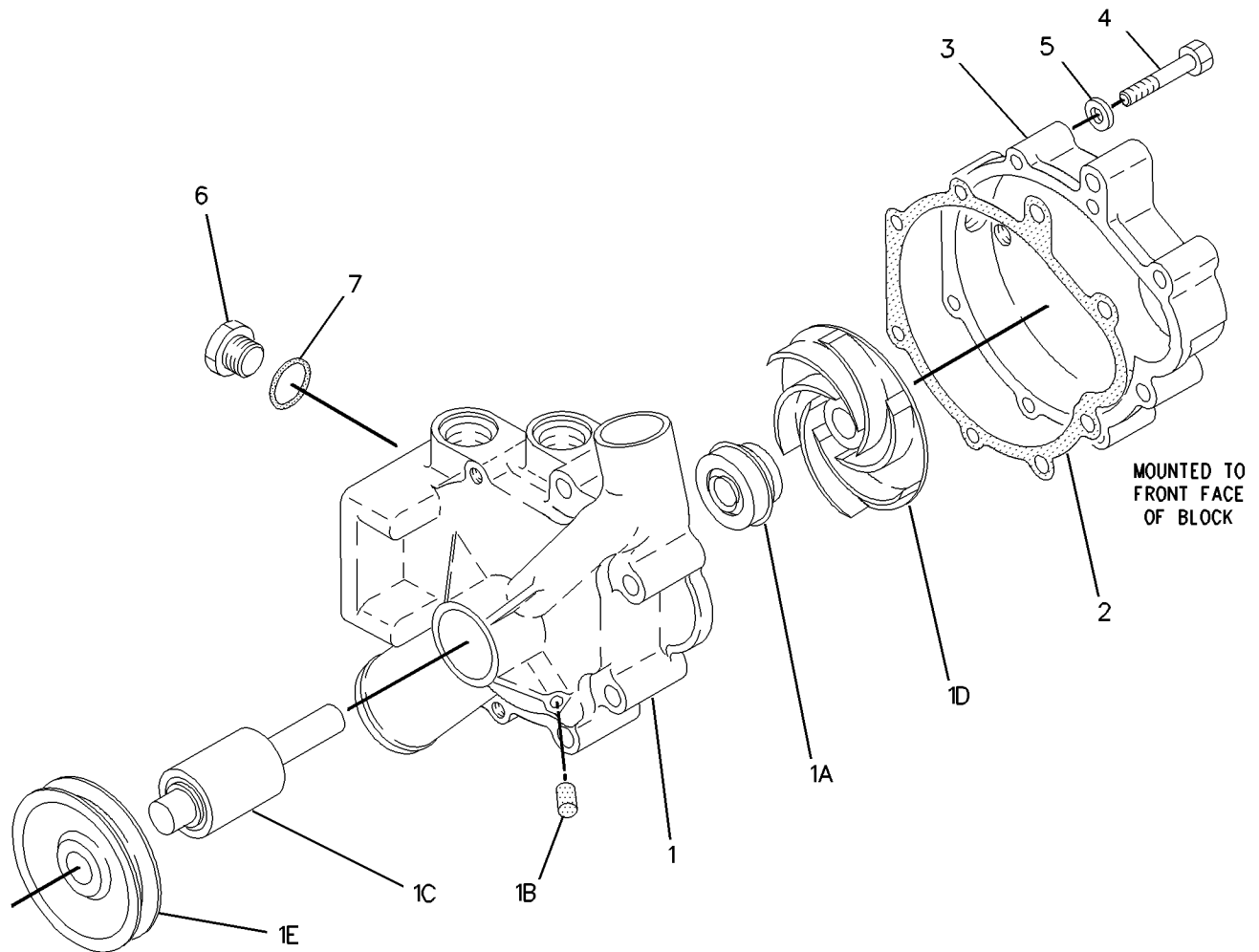
AN ATTACHMENT

SMCS-1361

i01560128

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	159-3141	1	PUMP AS-WATER						
		1	4P-3681	1	HOUSING-PUMP						
	1A	1	147-5088	1	SEAL AS-WATER PUMP						
	1B	1	119-3025	1	FILTER-WATER						
	1C	1	4W-0250	1	SHAFT AS						
	1D	1	152-3952	1	IMPELLER-PUMP						
	1E	1	7W-3780	1	PULLEY						
	2	1	4W-7592	1	GASKET						
	3	1	107-7701	1	COVER						
M	4	1	6V-3918	4	BOLT (M8X1.25X50MM)						
	5	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	6	1	9S-8005	1	PLUG						
	7	1	3K-0360	1	SEAL-O-RING						

M-METRIC PART



GRAPHIC #1

g00810676

COOLING SYSTEM

126-8227 PUMP GP-WATER

PART OF 140-8068 PUMP GP-WATER

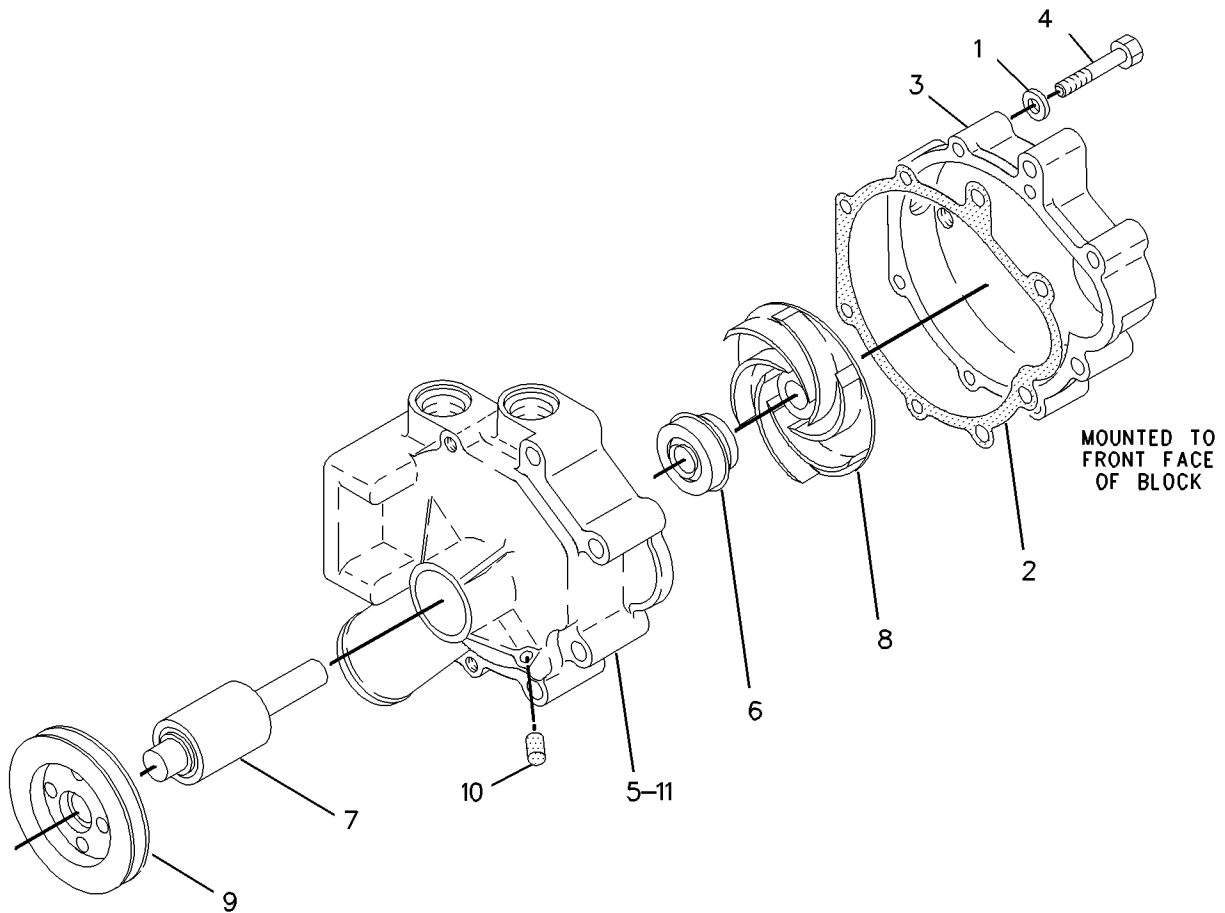
AN ATTACHMENT

SMCS-1361

i01322456

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-1974	4	WASHER-HARD (2MM THK)						
	2	1	4W-7592	1	GASKET						
	3	1	107-7701	1	COVER						
M	4	1	6V-3918	4	BOLT (M8X1.25X50MM)						
C	5	1	159-3145	1	PUMP AS-WATER						
	6	1	147-5088	1	SEAL AS-WATER PUMP						
	7	1	4W-0250	1	SHAFT AS						
	8	1	152-3952	1	IMPELLER-PUMP						
	9	1	7W-3780	1	PULLEY						
	10	1	119-3025	1	FILTER-WATER						
	11	1	128-5121	1	HOUSING AS-PUMP						

C- CHANGE FROM PREVIOUS TYPE
M- METRIC PART



GRAPHIC #1

g00701890

COOLING SYSTEM

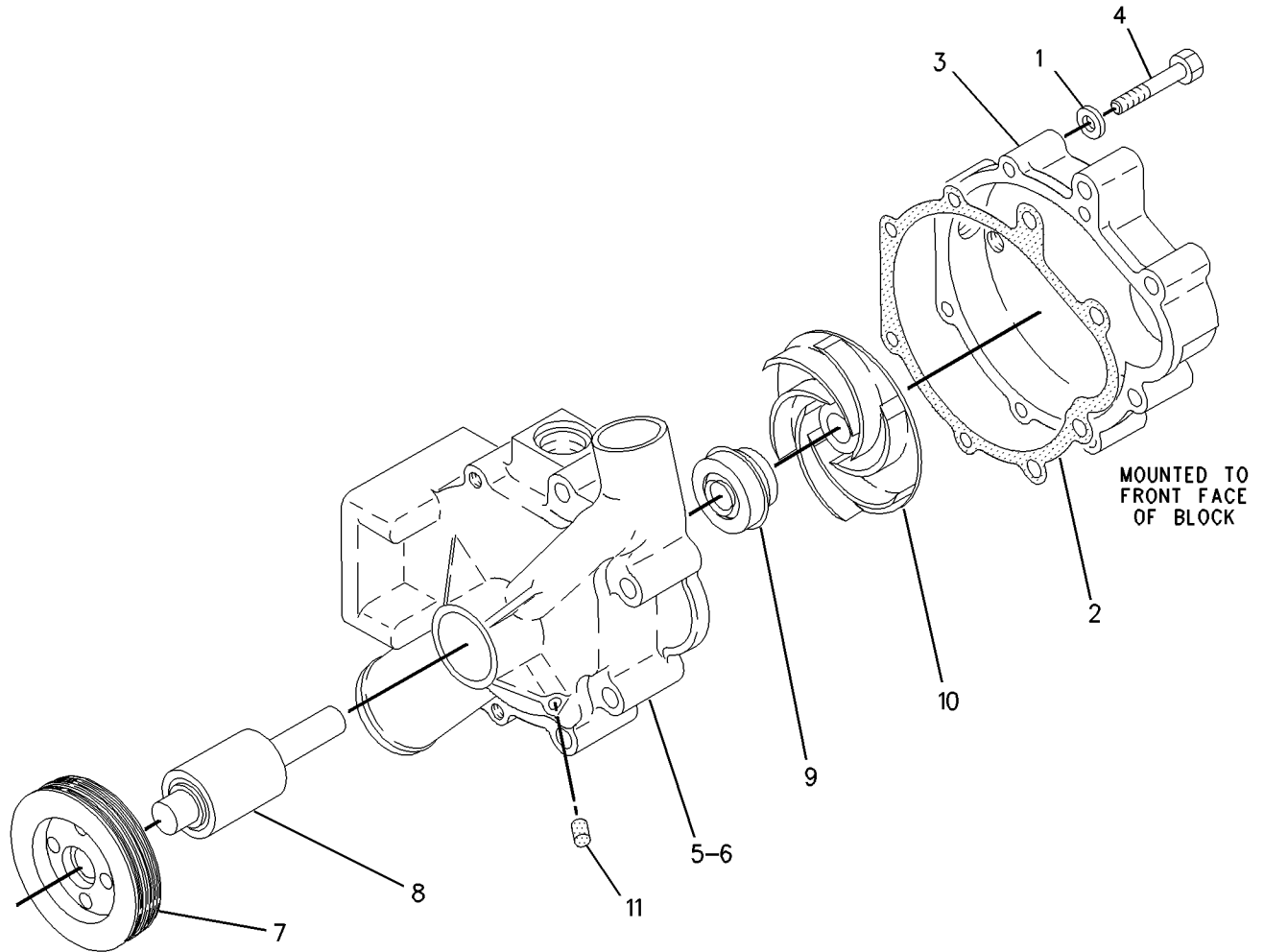
129-1172 PUMP GP-WATER PART OF 129-1173, 189-2232 PUMP GP-WATER ALSO AN ATTACHMENT

SMCS-1361

i01575333

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	2	1	4W-7592	1	GASKET						
	3	1	107-7701	1	COVER						
M	4	1	6V-3918	4	BOLT (M8X1.25X50MM)						
	5	1	159-3139	1	PUMP AS-WATER						
	6	1	129-1169	1	HOUSING-PUMP						
	7	1	117-3437	1	PULLEY (8 GROOVE)						
	8	1	129-1170	1	SHAFT AS						
	9	1	147-5088	1	SEAL AS-WATER PUMP						
	10	1	152-3952	1	IMPELLER-PUMP						
	11	1	119-3025	1	FILTER-WATER						

M-METRIC PART



GRAPHIC #1

g00701970

COOLING SYSTEM

129-1173 PUMP GP-WATER

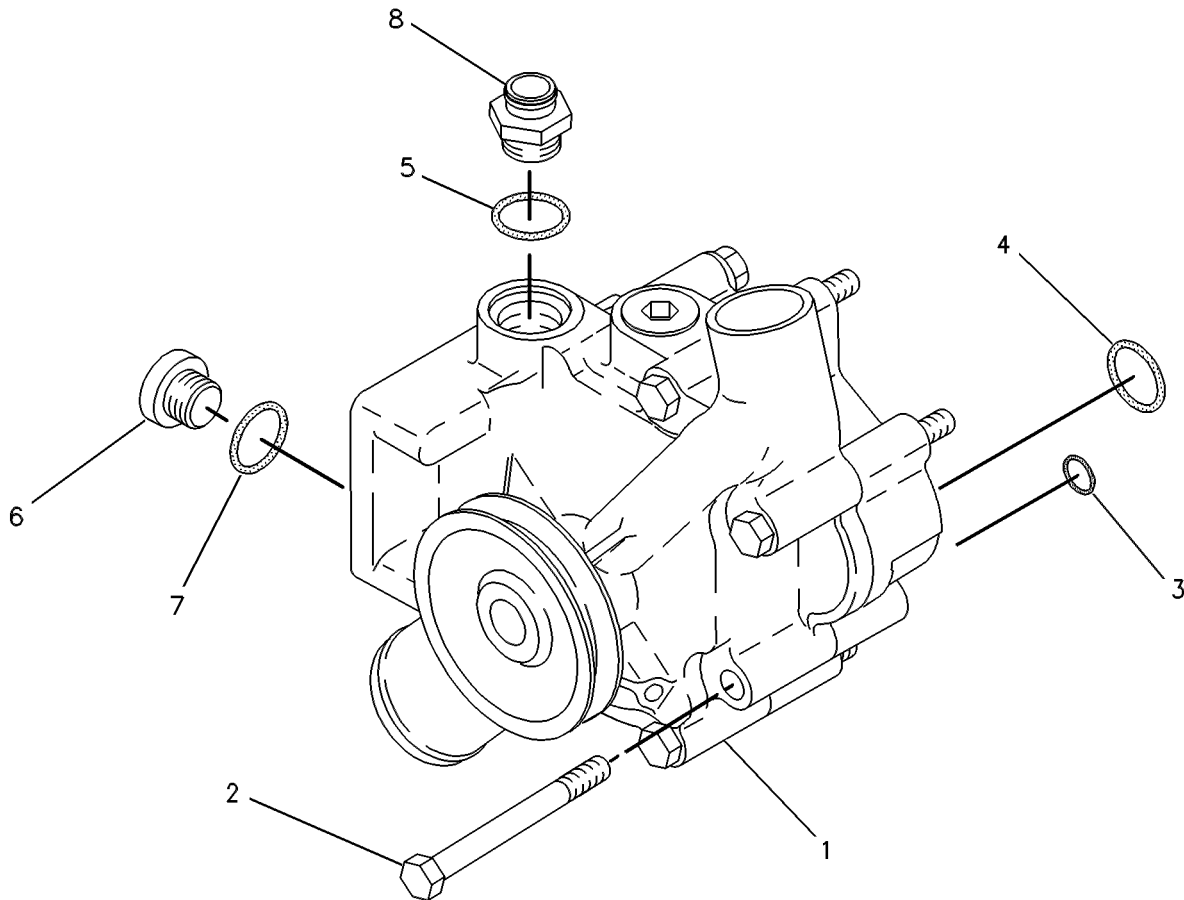
FOR USE WITH CUSTOMER SUPPLIED 8 GROOVE POLY-RIB BELT, SHORT FRONT END ACCESSORY DRIVE AN ATTACHMENT

SMCS-1361

i00803667

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	129-1172	1	PUMP GP-WATER						299
M	2	1	8T-0644	4	BOLT (M10X1.50X90MM)						
	3	1	2M-4453	1	SEAL-O-RING						
	4	1	7F-8267	1	SEAL-O-RING (47.2MM ID)						
	5	1	3D-2824	1	SEAL-O-RING (23.47MM ID)						
	6	1	9S-8006	1	PLUG-O-RING (7/8-14 THD)						
	7	1	2M-9780	1	SEAL-O-RING (19.18MM ID)						
	8	1	069-4269	1	STEM						

M- METRIC PART
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

g00260315

COOLING SYSTEM

140-8068 PUMP GP-WATER

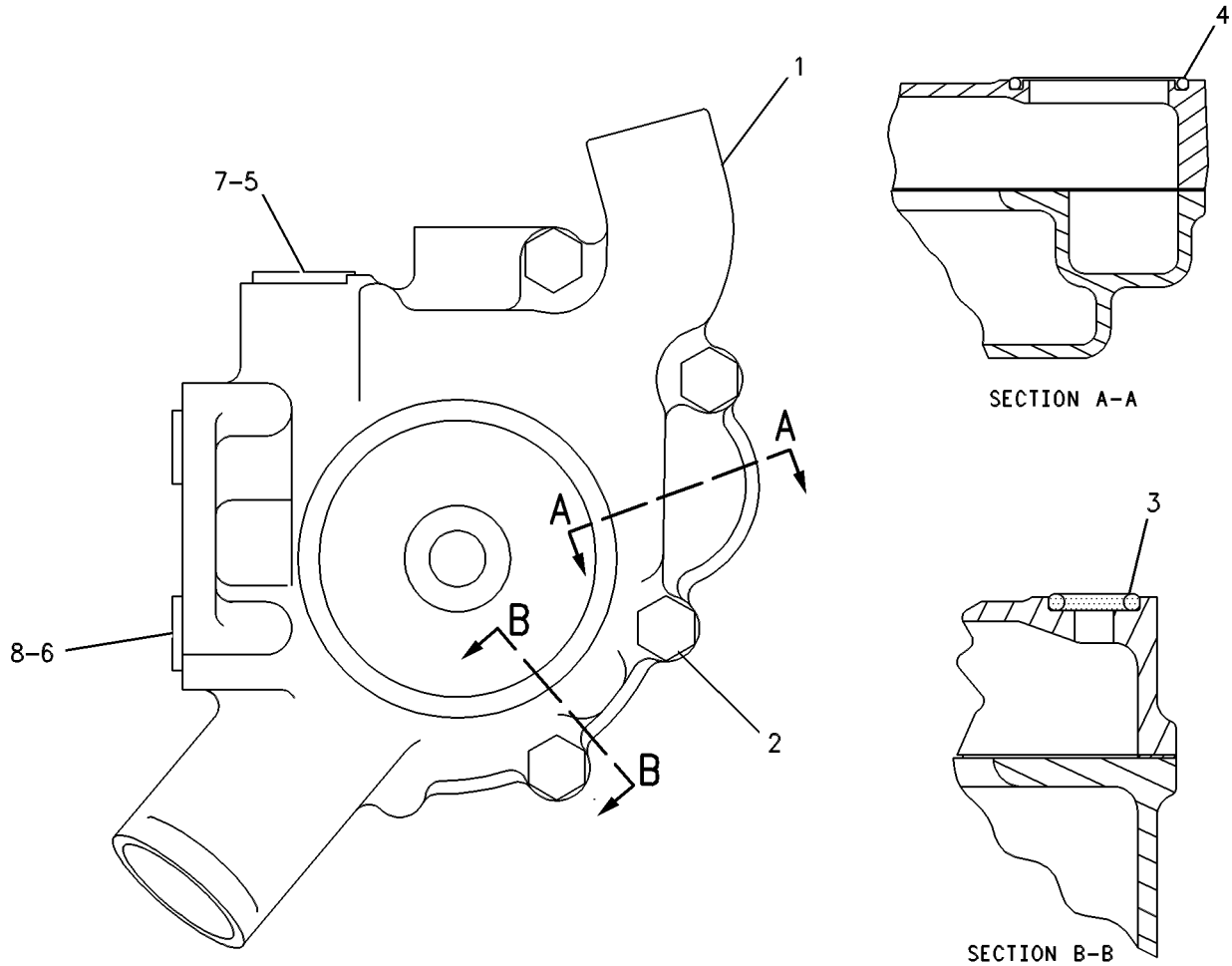
PROVIDES A WATER PUMP WITHOUT A 90 DEG ELBOW AND NOT USING A SHUNT OPENING
FOR USE WITH A WATER BYPASS
AN ATTACHMENT

SMCS-1361

i01113555

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	126-8227	1	PUMP GP-WATER						298
M	2	1	8T-0644	4	BOLT (M10X1.50X90MM)						
	3	1	2M-4453	1	SEAL-O-RING (12.29MM ID)						
	4	1	7F-8267	1	SEAL-O-RING (47.2MM ID)						
	5	1	9S-8008	1	PLUG-O-RING (1 1/16-12 THD)						
	6	1	9S-8005	2	PLUG-O-RING (3/4-16 THD)						
	7	1	3D-2824	1	SEAL-O-RING (23.47MM ID)						
	8	1	3K-0360	2	SEAL-O-RING (16.36MM ID)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00256489

COOLING SYSTEM

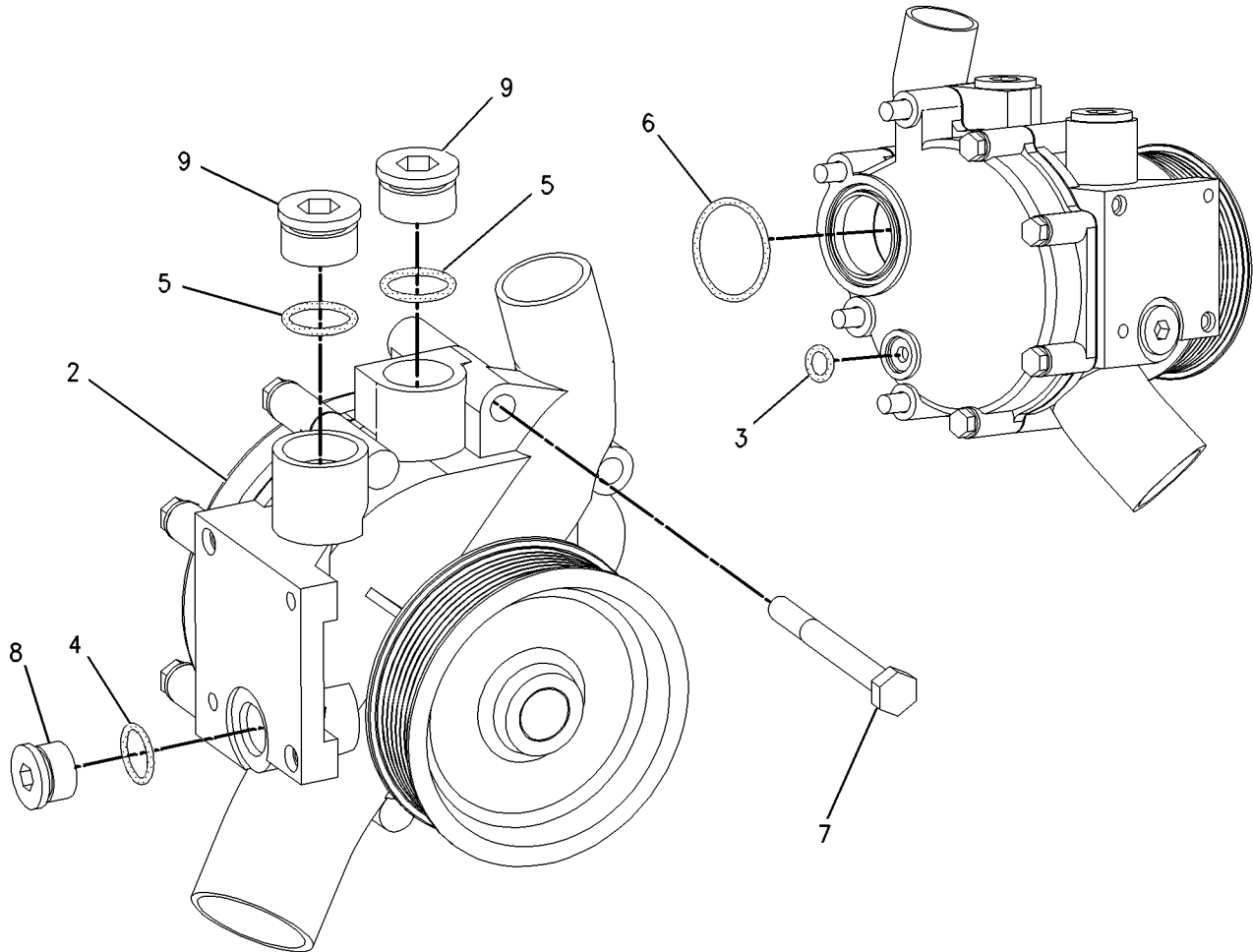
189-2232 PUMP GP-WATER

SMCS-1361

i01529590

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	2	1	129-1172	1	PUMP GP-WATER						299
	3	1	2M-4453	1	SEAL-O-RING						
	4	1	2M-9780	1	SEAL-O-RING						
	5	1	3D-2824	2	SEAL-O-RING						
	6	1	7F-8267	1	SEAL-O-RING						
M	7	1	8T-0644	4	BOLT (M10X1.50X90MM)						
	8	1	9S-8006	1	PLUG						
	9	1	9S-8008	2	PLUG-O-RING						

M- METRIC PART
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

g00794120

COOLING SYSTEM

110-2791 RADIATOR GP

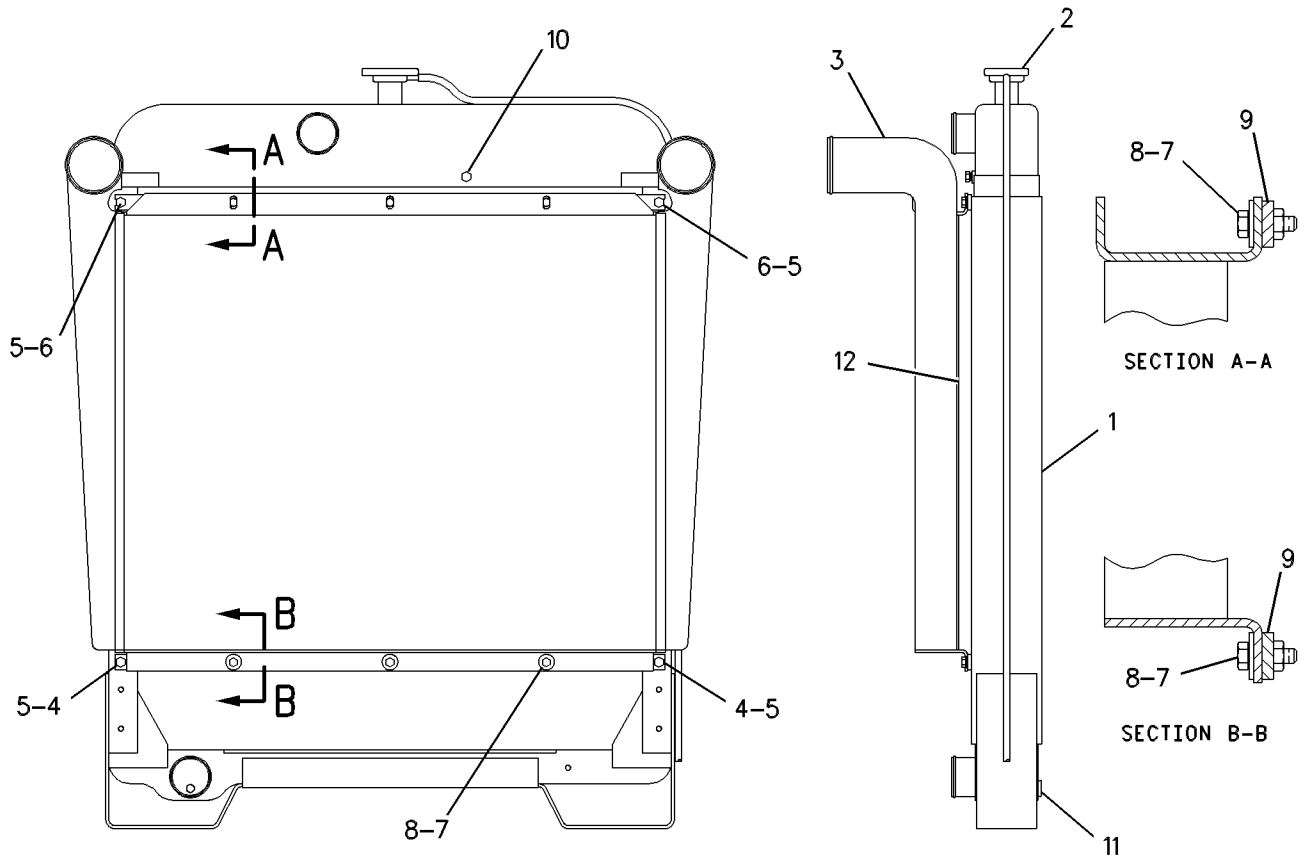
PART OF 208-3038 RADIATOR GP
AN ATTACHMENT

SMCS-1353

i01113192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-8627	1	RADIATOR AS						
		1	9F-2978	4	NUT-WELD (3/8-16 THD)						
		1	4K-9097	12	NUT-WELD (5/16-18 THD)						
		1	8T-6764	1	PLUG-PIPE (1/8-27 NPTF THD)						
2		1	6L-8617	1	CAP-RADIATOR						
3		1	7C-8386	1	AFTERCOOLER AS						
4		1	9B-7237	2	BOLT (3/8-16X1.25IN)						
5		1	8T-4896	4	WASHER-HARD (2.5MM THK)						
6		1	4L-6454	2	BOLT (3/8-16X1.0IN)						
7		1	4M-6425	6	BOLT (5/16-18X1IN)						
8		1	7X-0579	6	WASHER-HARD (2.0MM THK)						
9		1	7E-6086	2	BAR AS						
		1	4K-9097	3	NUT-WELD (5/16-18 THD)						
10		1	8T-6765	1	PLUG-PIPE (1/4-18 NPTF THD)						
		1	8T-6762	1	PLUG-PIPE (1/2-14 NPTF THD)						
D	12	1	8T-1133		SEAL (1.5 METER)						

D-ORDER BY THE METER



GRAPHIC #1

g00589880

COOLING SYSTEM

208-3038 RADIATOR GP

FOR USE WITH 194-9463-PAGE 88, 198-7628-PAGE 189, 197-8106-PAGE 277,
198-7631-PAGE 98, 7C-7463-PAGE 283, 7M-4705-PAGE 221
AN ATTACHMENT

SMCS-1353

i01593248

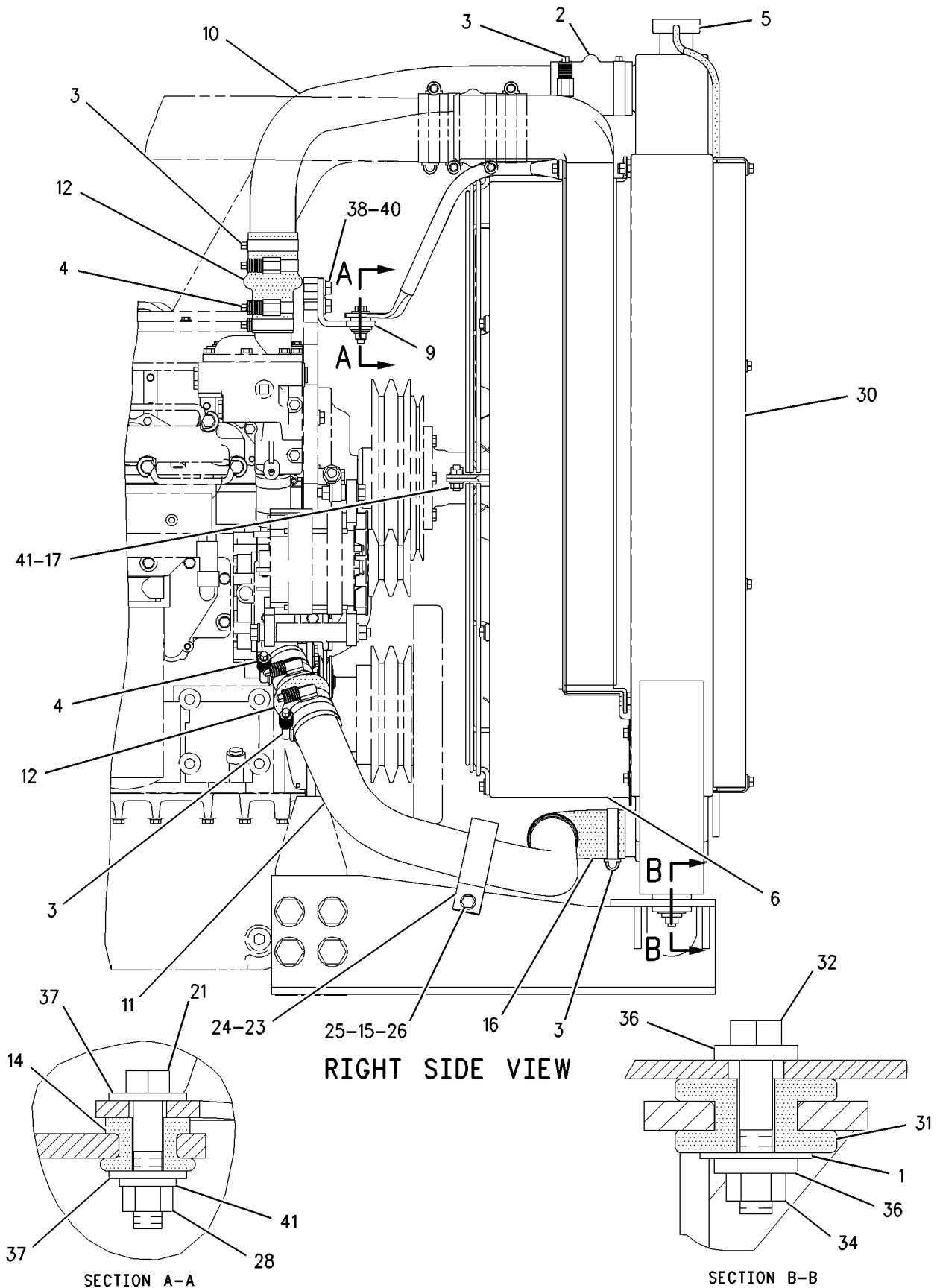
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1C-1976	2	WASHER (1.9MM THK)						
	2	1	4N-6749	1	HOSE-HUMP						
	3	1	8T-4984	8	CLAMP-HOSE						
	4	1	8T-6703	4	CLAMP-HOSE						
Y	5	1	<i>110-2791</i>	1	RADIATOR GP						303
	6	1	110-9687	1	SHROUD						
	7	2	202-2648	1	SUPPORT AS						
	8	2	202-2649	1	SUPPORT AS						
	9	1	202-4991	1	BRACKET						
	10	1	208-8128	1	TUBE						
	11	1	208-8129	1	TUBE						
	12	1	109-5351	2	HOSE-HUMP						
	13	2	110-9688	2	GUARD AS-FAN (EACH INCLUDES)						
		2	1F-0750	1	NUT-WELD (3/8-16 THD)						
	14	1	2W-9710	2	MOUNT AS						
M	15	1	2Y-5829	1	NUT (M10X1.5 THD)						
	16	1	3R-1317	1	HOSE						
	17	1	4L-6454	2	BOLT (3/8-16X1 IN)						
	18	2	4M-0061	4	BOLT (5/16-18X0.750 IN)						
	19	2	4M-6425	2	BOLT (5/16-18X1 IN)						
	20	2	5P-4116	14	WASHER-HARD (8.8X20.5X2MM THK)						
	21	1	5S-7383	2	BOLT (3/8-16X1.75 IN)						
	23	1	6V-1581	1	CLIP (SLOT)						
	24	1	6V-1582	1	CLIP (TAB)						
M	25	1	6V-3822	1	BOLT (M10X1.5X35MM)						
	26	1	6V-5839	2	WASHER (11X21X2.5MM THK)						
	27	2	6V-8189	2	NUT (5/16-18 THD)						
	28	1	6V-8801	2	NUT (3/8-16 THD)						
	29	2	6V-8918	6	BOLT (5/16-18X1.25 IN)						
Y	30	1	<i>7C-8630</i>	1	GUARD GP-RADIATOR						291
	31	1	7T-8332	2	MOUNTING						
	32	1	7X-0311	2	BOLT (7/16-14X2.25 IN)						
	33	2	7X-0382	8	BOLT (7/8-9X2.25IN)						
	34	1	7X-0447	2	NUT (7/16-14 THD)						
	35	2	7X-0449	8	NUT-FULL (7/8-9 THD)						
	36	1	7X-0589	4	WASHER-HARD (12X28.5X5MM THK)						
	37	1	7X-0772	4	WASHER-HARD (10.2X25.5X2.5MM THK)						
	38	1	7X-3392	4	WASHER-HARD (13.5X22.5X3MM THK)						
	39	2	8C-6913	16	WASHER-HARD (24X41.5X4MM THK)						
M	40	1	8T-4139	4	BOLT (M12X1.75X30MM)						
	41	1	8T-4896	4	WASHER-HARD (10.2X18.5X2.5MM THK)						
	42	2	9Y-6350	1	BRACE						
	43	2	9Y-6351	1	BRACE						

M-METRIC PART
Y-SEPARATE ILLUSTRATION

COOLING SYSTEM

208-3038 RADIATOR GP (contd.)

i01593248



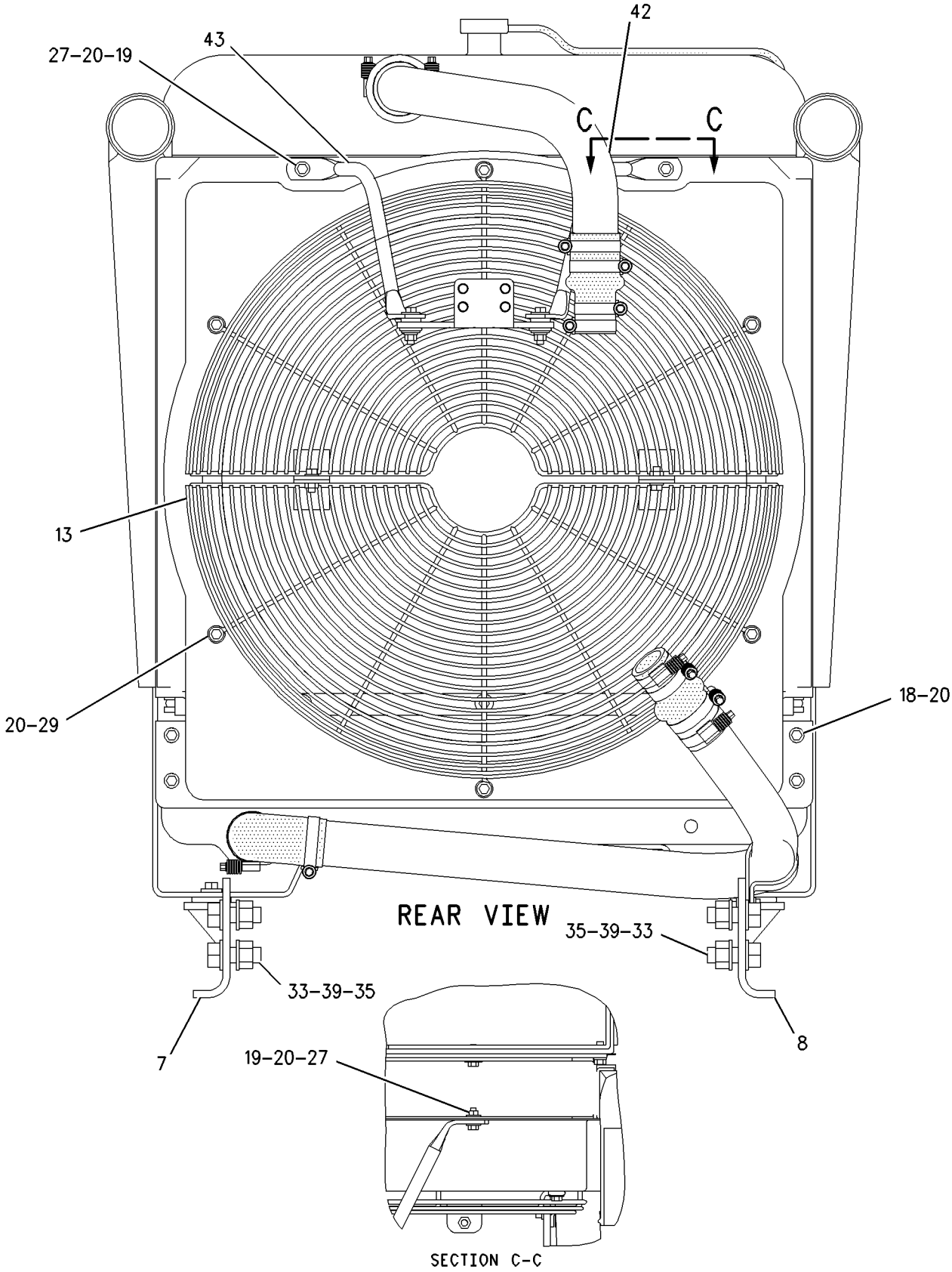
GRAPHIC #1

g00833057

COOLING SYSTEM

208-3038 RADIATOR GP (contd.)

i01593248



AIR INLET AND EXHAUST SYSTEM

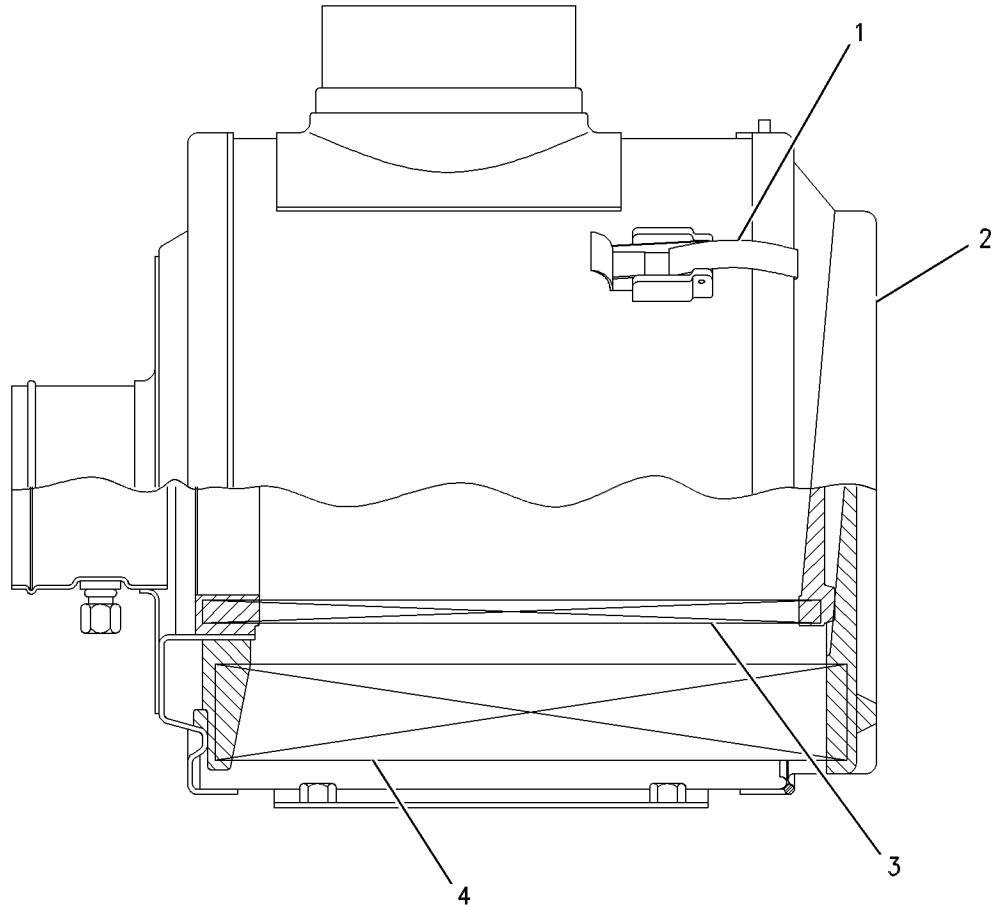
108-8070 AIR CLEANER GP

PART OF 108-8774 AIR CLEANER GP
AN ATTACHMENT

SMCS-1051

i00915647

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8N-4617	2	KIT-AIR CLEANER CLAMP						
	2	1	6I-4464		COVER AS-AIR CLEANER						
		1	4P-5524	1	SEAL-O-RING						
	3	1	6I-2502	1	FILTER ELEMENT AS-SEC AIR						
	4	1	6I-2501	1	FILTER ELEMENT AS-PRIMARY AIR						



GRAPHIC #1

g00467710

AIR INLET AND EXHAUST SYSTEM

108-8774 AIR CLEANER GP 12 INCH. DRY-TYPE SINGLE STAGE FILTER AN ATTACHMENT

SMCS-1051

i00911852

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	108-8070	1	AIR CLEANER GP						307
	7N-4247	1	BOOT						
	8T-6764	1	PLUG-PIPE (1/8-27 NPTF THD)						
Y-SEPARATE ILLUSTRATION									

AIR INLET AND EXHAUST SYSTEM

163-0820 AIR CLEANER GP

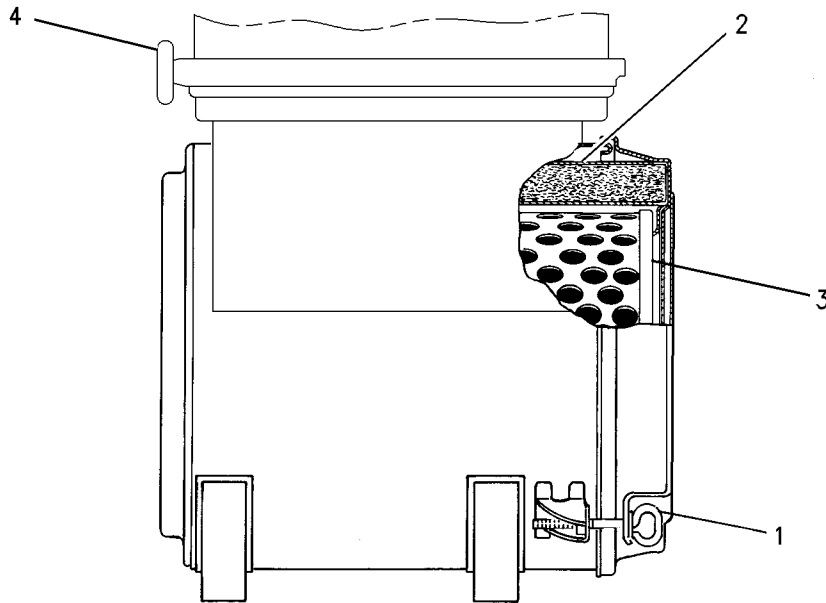
PART OF 209-5356 AIR CLEANER GP

AN ATTACHMENT

SMCS-1051

i01562483

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4467	1	COVER AS-AIR CLEANER						
		1	101-2850	1	FILM-AIR CLEANER (RADIAL SEAL)						
	2	1	6I-2509	1	FILTER ELEMENT AS-PRIMARY AIR						
	3	1	6I-2510	1	FILTER ELEMENT AS-SEC AIR						
	4	1	8S-6824	1	CLAMP AS						



GRAPHIC #1

g00760184

AIR INLET AND EXHAUST SYSTEM

209-5356 AIR CLEANER GP

FOR USE WITH HEAVY DUTY MUFFLER/PRECLEANER, AND #0 FLYWHEEL HOUSING. CANNOT BE
USED WITH JACKET WATER HEATER OR #1 FLYWHEEL HOUSING
AN ATTACHMENT

SMCS-1051

i01563680

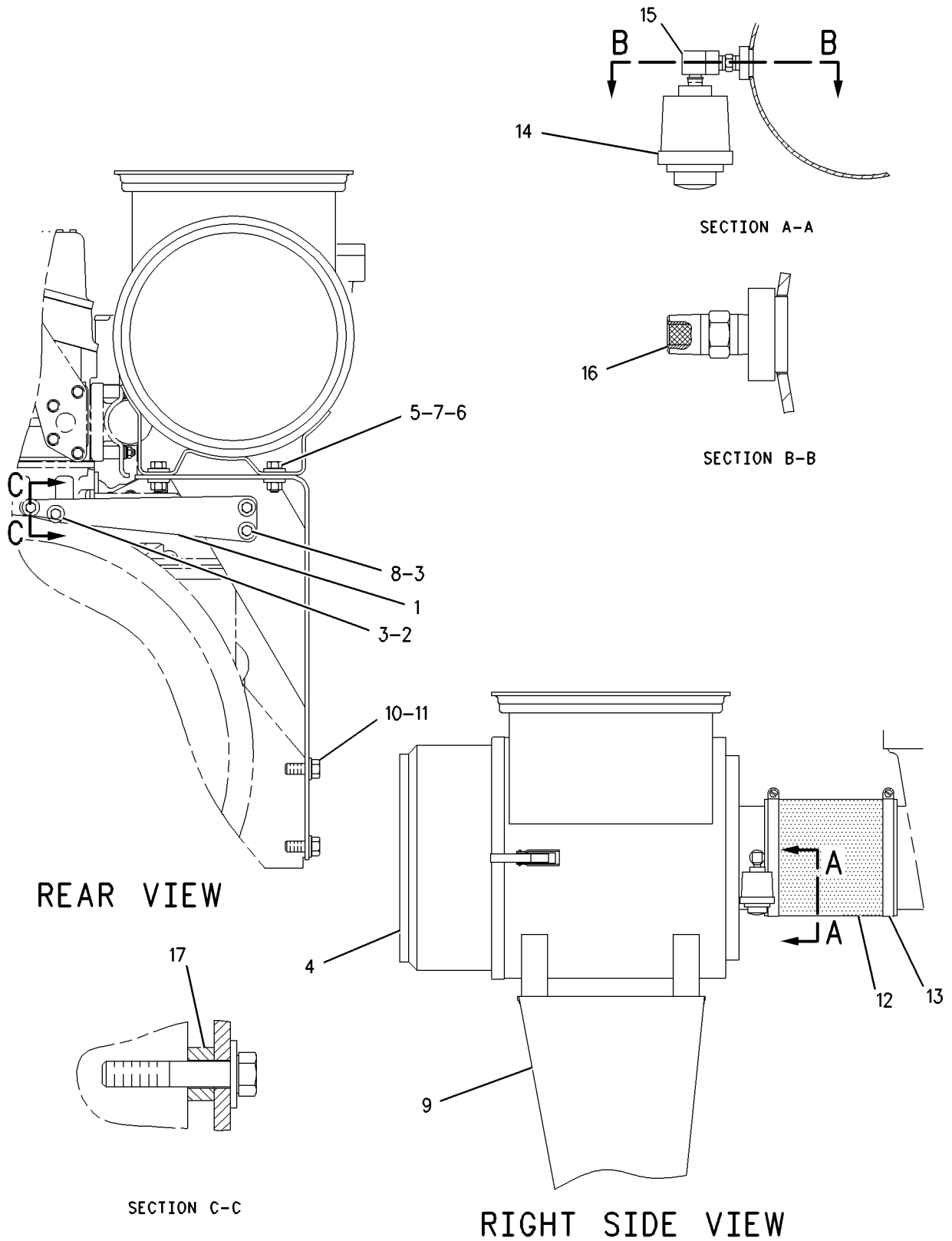
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	126-2442	1	BRACKET						
	2	1	0S-1590	2	BOLT (3/8-16X2 IN)						
	3	1	9L-9132	4	WASHER (10.2X25.5X2.5MM THK)						
Y	4	1	163-0820	1	AIR CLEANER GP						309
	5	1	7B-3235	4	BOLT (1/2-13X1.375 IN)						
	6	1	1F-7958	4	NUT-FULL (1/2-13 THD)						
	7	1	7D-1649	8	WASHER-HARD (13.5X32X5MM THK)						
	8	1	1A-2029	2	BOLT (3/8-16X1.125 IN)						
	9	1	124-3689	1	BRACKET AS						
		1	1F-0750	2	NUT-WELD (3/8-16 THD)						
	10	1	0S-1566	3	BOLT (5/8-11X1.5 IN)						
	11	1	5P-8247	3	WASHER-HARD (17X32X3.5MM THK)						
E	12	1	6V-6811		HOSE (17CM)						
	13	1	5P-3860	2	CLAMP-HOSE						
	14	1	8N-2694	1	INDICATOR-AIR FILTER SERVICE						
	15	1	3B-6552	1	ELBOW						
	16	1	5L-3233	1	FITTING						
	17	1	091-0081	2	SPACER (10.5X20X10.0MM THK)						

E- ORDER BY THE CENTIMETER
Y- SEPARATE ILLUSTRATION

AIR INLET AND EXHAUST SYSTEM

209-5356 AIR CLEANER GP (contd.)

i01563680



REAR VIEW

SECTION C-C

SECTION A-A

SECTION B-B

RIGHT SIDE VIEW

GRAPHIC #1

g00812240

AIR INLET AND EXHAUST SYSTEM

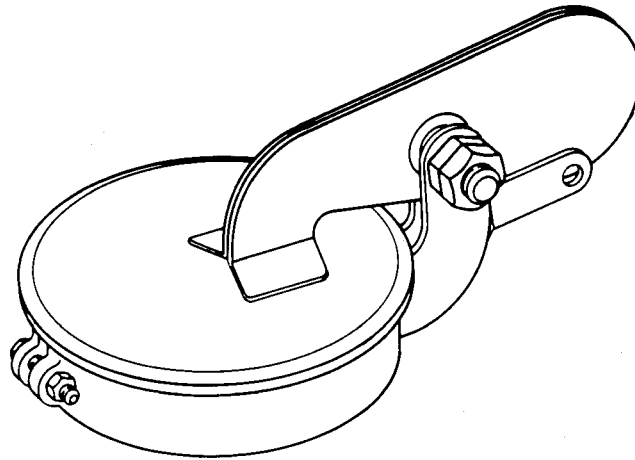
7S-1784 CAP AS-RAIN

FOR USE WITH 109-6310-PAGE 331, 109-6309-PAGE 332, APPLICATIONS REQUIRING 114.3
OD EXHAUST SYSTEM
AN ATTACHMENT

SMCS-1072

i00911887

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
					INDIVIDUAL PART ARE NOT						
					SERVICED SEPARATELY						



GRAPHIC #1

g00143528

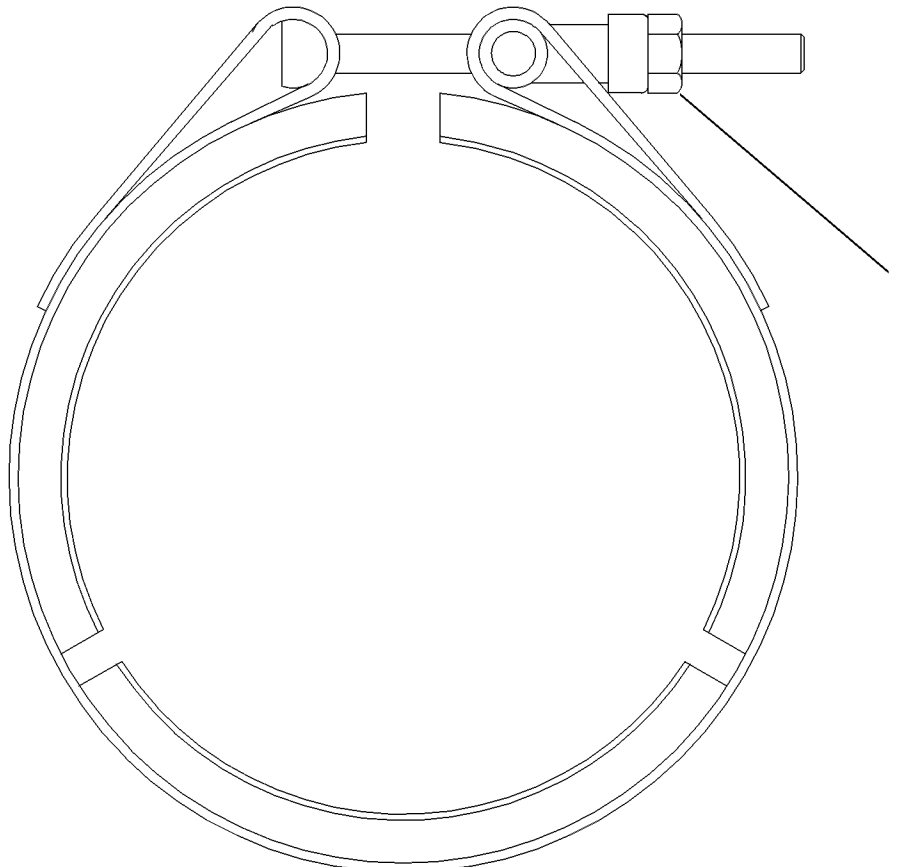
AIR INLET AND EXHAUST SYSTEM

1W-2431 CLAMP - BAND STAINLESS STL, 119.1MM GAGE DIAMETER AN ATTACHMENT

SMCS-1071

i01148265

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-0193	1	NUT-FULL (5/16-24 THD)						



GRAPHIC #1

g00605009

AIR INLET AND EXHAUST SYSTEM

153-1794 COVER GP-AIR INLET

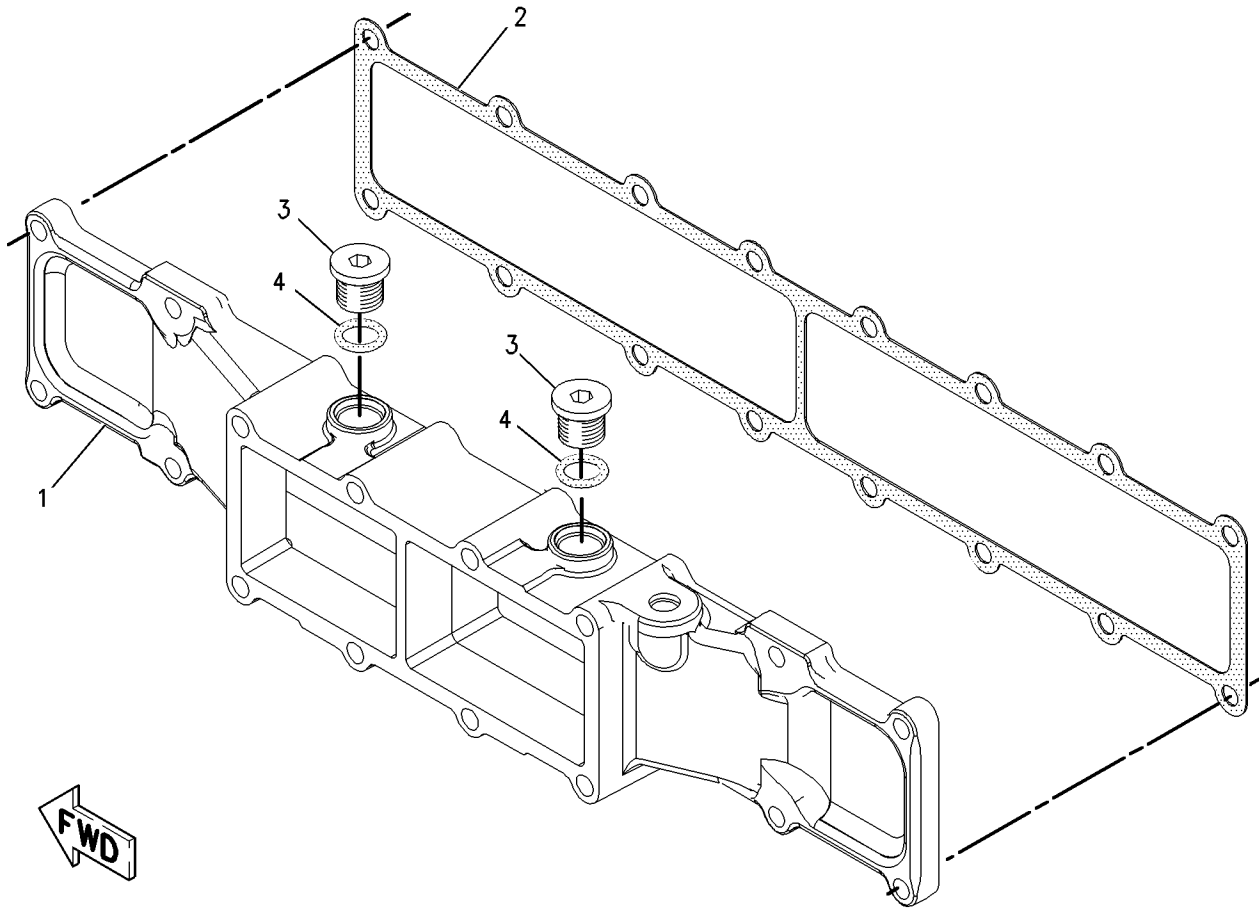
PROVIDES AIR INLET COVER ONLY

ALSO AN ATTACHMENT

SMCS-1087

i01593516

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	203-3769	1	COVER-AIR INLET						
	2	1	144-3472	1	GASKET						
	3	1	9S-8005	2	PLUG-O-RING						
	4	1	3K-0360	2	SEAL-O-RING						



GRAPHIC #1

g00826727

AIR INLET AND EXHAUST SYSTEM

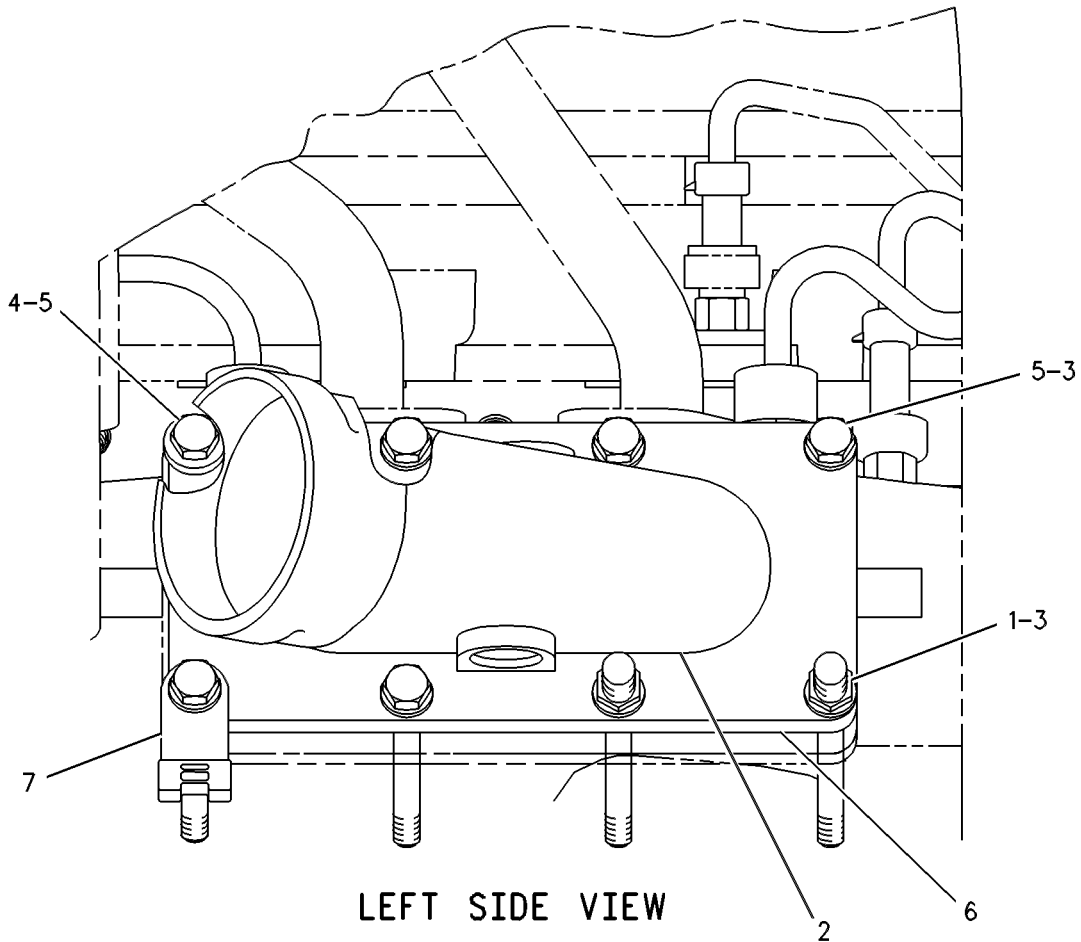
137-5182 ELBOW GP-AIR INLET FOR USE WHEN OIL GUIDE IS NOT ATTACHED TO INTAKE AN ATTACHMENT

SMCS-1087

i00827838

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	137-6726	2	STUD-BOLT						
	2	1	137-9863	1	ELBOW-AIR INLET						
	3	1	9M-1974	7	WASHER-HARD (2MM THK)						
	4	1	7S-6369	1	WASHER (4.8MM THK)						
M	5	1	6V-3821	6	BOLT (M8X1.25X110MM)						
B	6	1	1U-8846		GASKET-LIQUID						
	7	1	4P-8134	1	CLIP (10.5MM ID)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00288730

AIR INLET AND EXHAUST SYSTEM

151-0854 ELBOW GP-AIR INLET

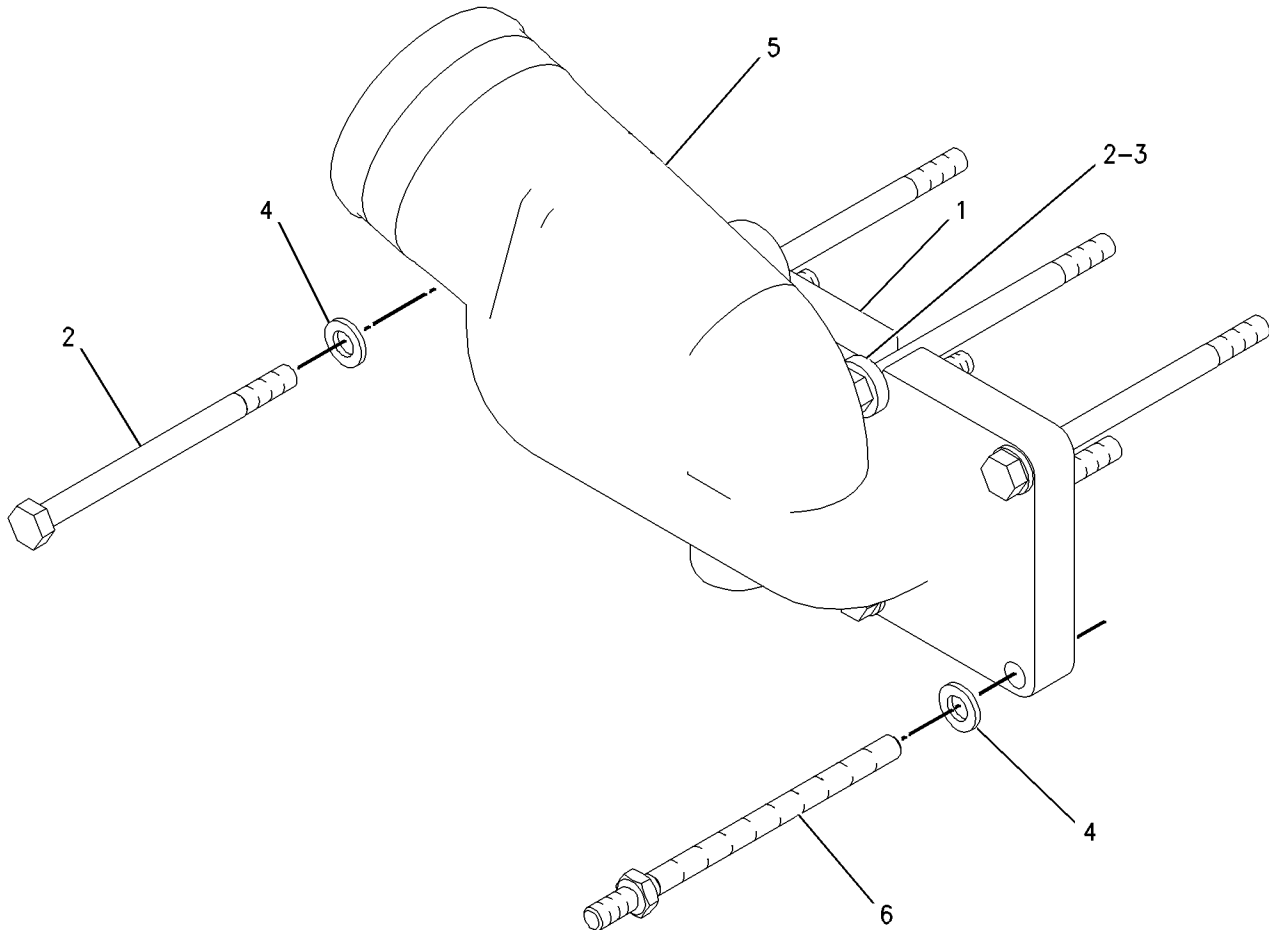
FOR USE WITH NARROW ENGINES AND 76MM DIAMETER BEADED HOSE CONNECTION
ALSO AN ATTACHMENT

SMCS-1087

i01540010

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	1U-8846		SEALANT-GASKET						
M	2	1	6V-3821	7	BOLT (M8X1.25X110MM)						
	3	1	7S-6369	2	WASHER (.344X.75X.188 IN THK)						
	4	1	9M-1974	6	WASHER-HARD (8.8X16X2MM THK)						
	5	1	143-7347	1	ELBOW-AIR INLET						
M	6	1	137-6726	1	STUD-BOLT (M8X1.25X132.75MM OAL)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00800003

AIR INLET AND EXHAUST SYSTEM

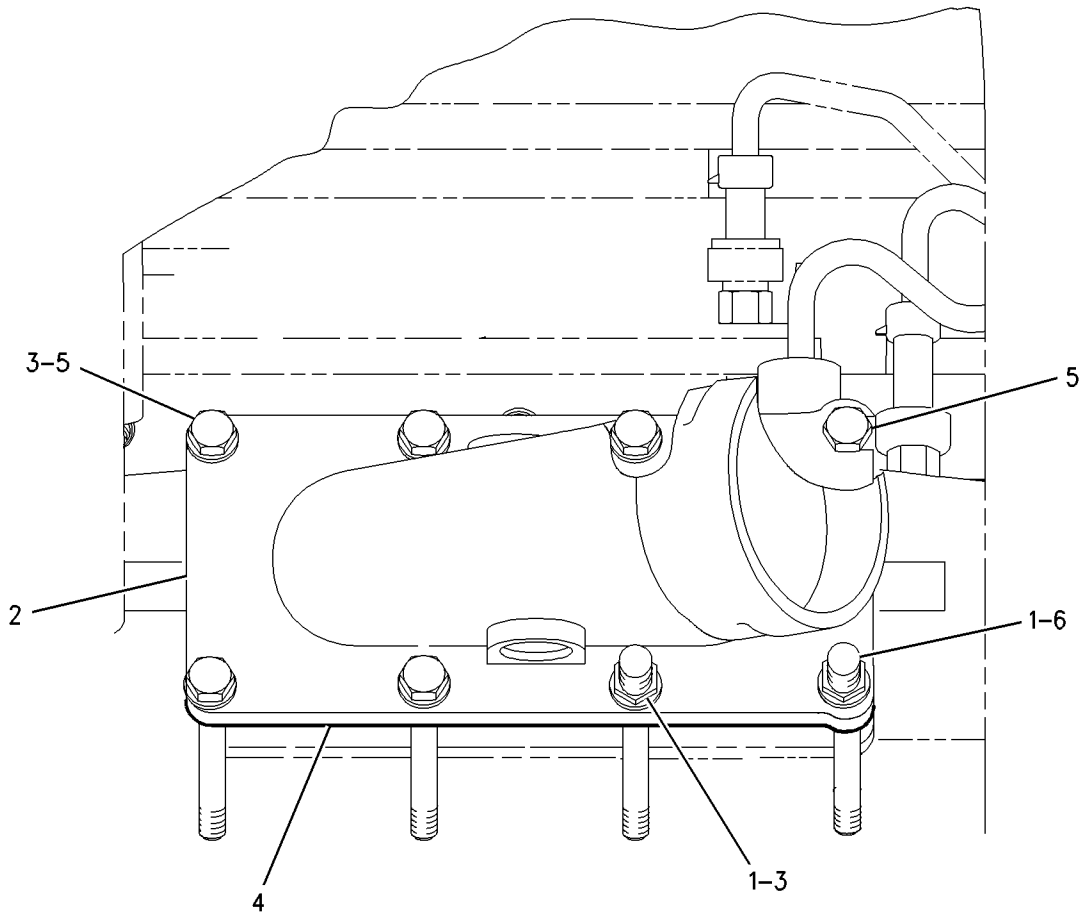
151-0863 ELBOW GP-AIR INLET PROVIDES ELBOW POINTING TOWARD REAR OF ENGINE AN ATTACHMENT

SMCS-1087

i01469536

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	137-6726	2	STUD-BOLT (M8X1.25X132.75MM OAL)						
	2	1	137-9863	1	ELBOW-AIR INLET						
	3	1	9M-1974	6	WASHER-HARD (8.8X16X2MM THK)						
B	4	1	1U-8846		SEALANT-GASKET						
M	5	1	6V-3821	6	BOLT (M8X1.25X110MM)						
	6	1	7S-6369	1	WASHER (.344X.75X.188 IN THK)						

B-USE AS REQUIRED
M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00738722

AIR INLET AND EXHAUST SYSTEM

155-4910 ELBOW GP-AIR INLET

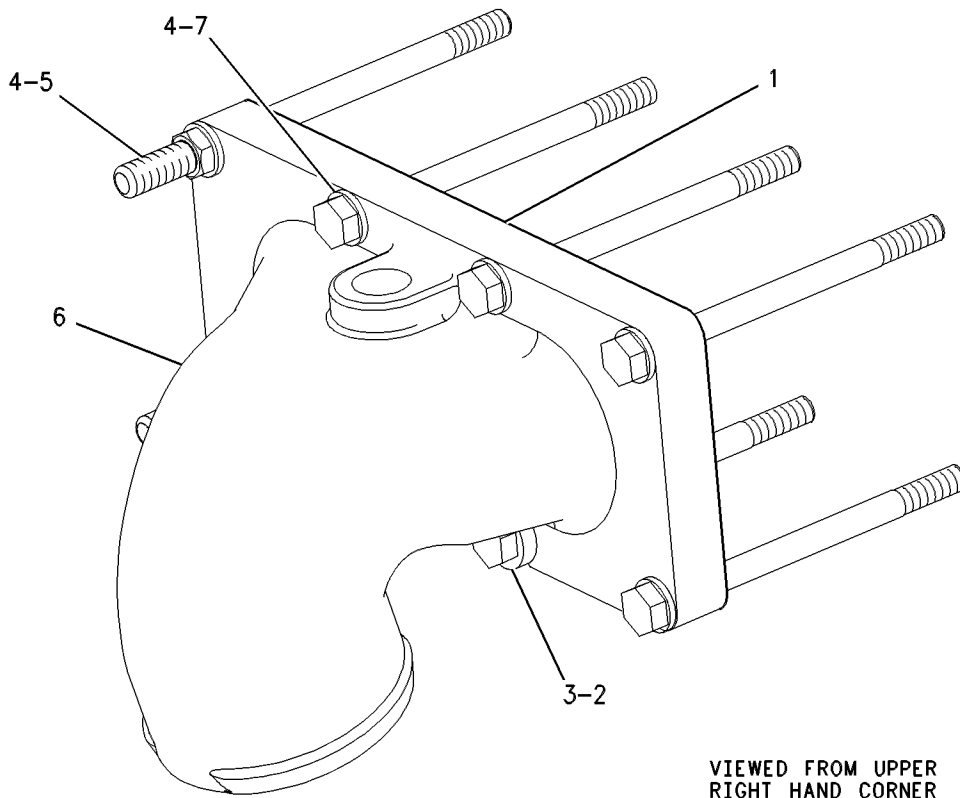
PROVIDES ELBOW POINTING DOWN & ANGLED 15 DEG TOWARDS ENGINE
AN ATTACHMENT

SMCS-1087

i00838869

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	1U-8846		GASKET-LIQUID						
M	2	1	6V-3821	6	BOLT (M8X1.25X110MM)						
	3	1	7S-6369	1	WASHER (4.8MM THK)						
	4	1	9M-1974	7	WASHER-HARD (2MM THK)						
	5	1	137-6726	2	STUD-BOLT						
	6	1	155-4909	1	ELBOW-AIR INLET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00404761

AIR INLET AND EXHAUST SYSTEM

159-7343 ELBOW GP-AIR INLET

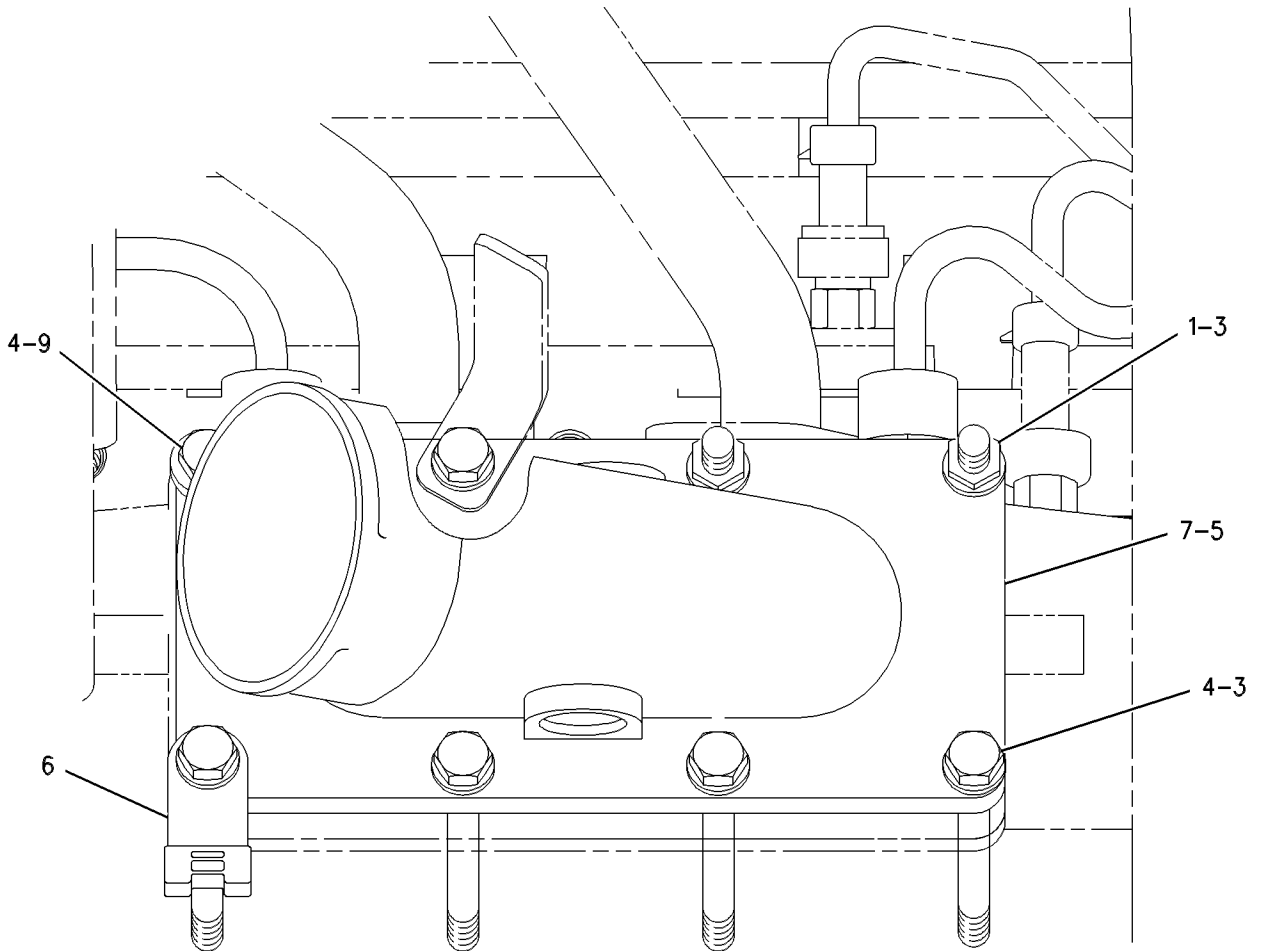
PROVIDES ELBOW POINTING FORWARD
AN ATTACHMENT

SMCS-1087

i00842729

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	137-6726	2	STUD-BOLT						
	3	1	9M-1974	7	WASHER-HARD (2MM THK)						
M	4	1	6V-3821	6	BOLT (M8X1.25X110MM)						
B	5	1	1U-8846		GASKET-LIQUID						
	6	1	4P-8134	1	CLIP						
	7	1	137-9863	1	ELBOW-AIR INLET						
	9	1	7S-6369	1	WASHER (4.8MM THK)						

B-USE AS REQUIRED
M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00421240

AIR INLET AND EXHAUST SYSTEM

162-1555 ELBOW GP-AIR INLET

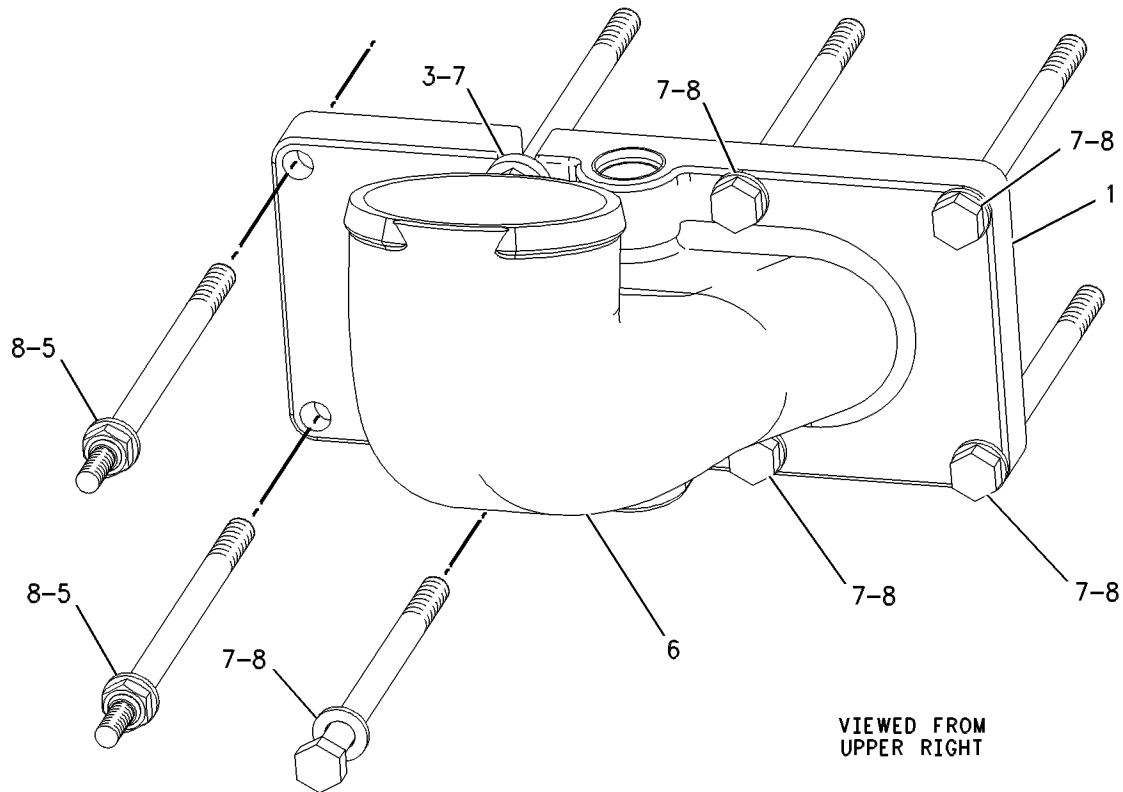
PROVIDES ELBOW POINTING UPWARD & ANGLED 30 DEG TOWARDS ENGINE
AN ATTACHMENT

SMCS-1087

i01469592

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	1U-8846	1	SEALANT-GASKET						
	3	1	7S-6369	1	WASHER (.344X.75X.188 IN THK)						
M	5	1	137-6726	2	STUD-BOLT (M8X1.25X132.75MM OAL)						
	6	1	155-4909	1	ELBOW-AIR INLET						
M	7	1	6V-3821	6	BOLT (M8X1.25X110MM)						
	8	1	9M-1974	7	WASHER-HARD (8.8X16X2MM THK)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00535800

AIR INLET AND EXHAUST SYSTEM

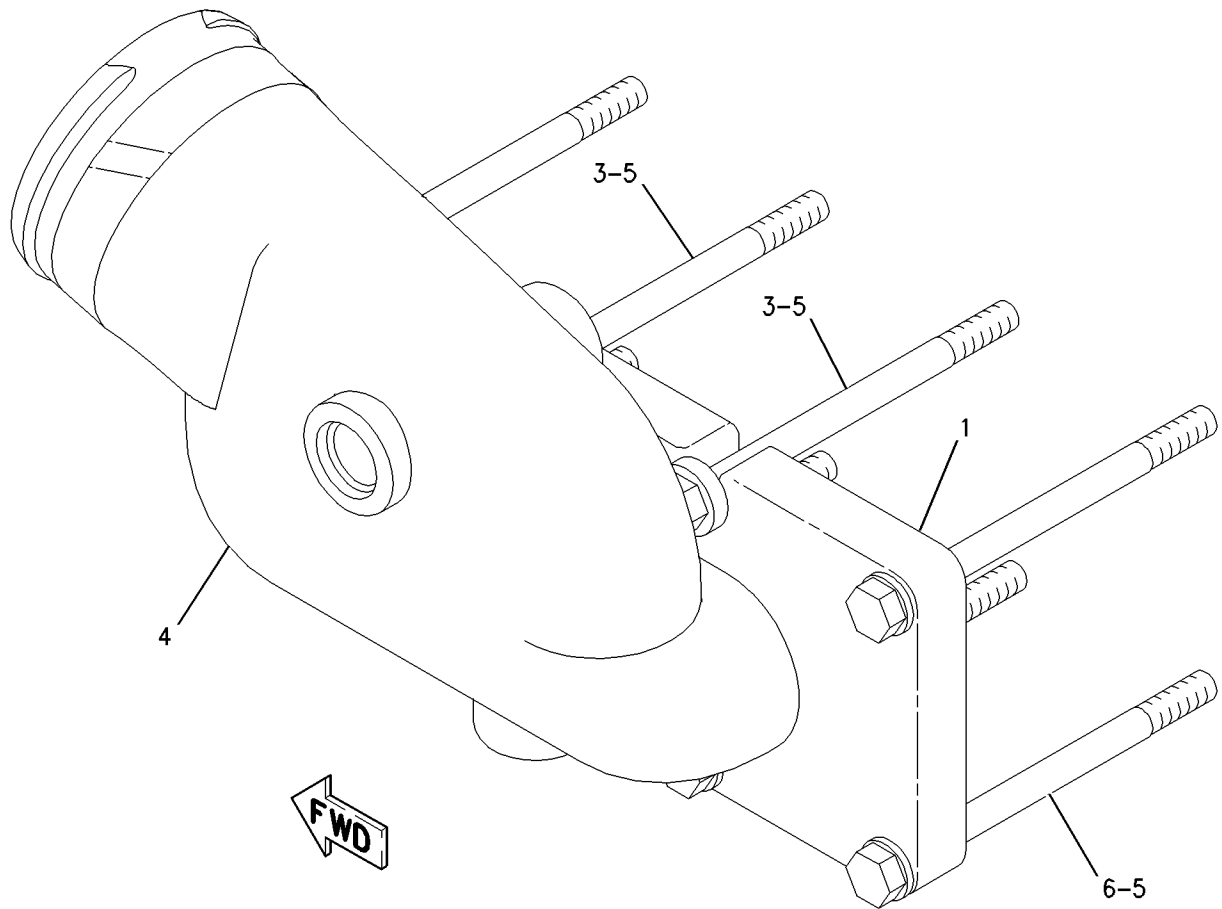
201-9766 ELBOW GP-AIR INLET AN ATTACHMENT

SMCS-1087

i01503360

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1U-8846	1	SEALANT-GASKET						
	3	1	7S-6369	2	WASHER (.344X.75X.188 IN THK)						
	4	1	201-9765	1	ELBOW-AIR INLET						
M	5	1	6V-3821	8	BOLT (M8X1.25X110MM)						
	6	1	9M-1974	6	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00782431

AIR INLET AND EXHAUST SYSTEM

126-7856 ELBOW GP-EXHAUST

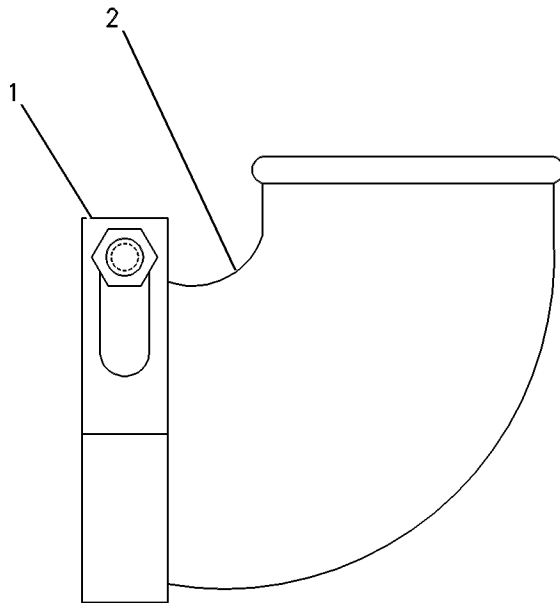
45 DEG, 4 IN WELDABLE PIPE

AN ATTACHMENT

SMCS-1061

i00813313

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2431	1	CLAMP						
	2	1	9N-6326	1	ELBOW-EXHAUST						



GRAPHIC #1

g00256346

AIR INLET AND EXHAUST SYSTEM

126-7857 ELBOW GP-EXHAUST

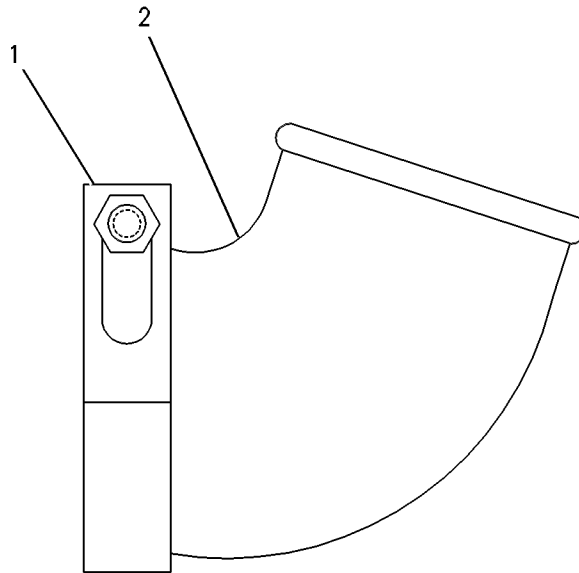
90 DEGREE 4 IN. WELDABLE PIPE

FOR USE WITH 90 DEGREE EXH ELBOW FROM TURBO WITH 101.6 DIA MARMAN TURBINE OUTLET
AN ATTACHMENT

SMCS-1061

i00638668

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2431	1	CLAMP						
	2	1	9N-6327	1	ELBOW-EXHAUST						



GRAPHIC #1

g00256345

AIR INLET AND EXHAUST SYSTEM

126-7855 EXTENSION GP-EXHAUST

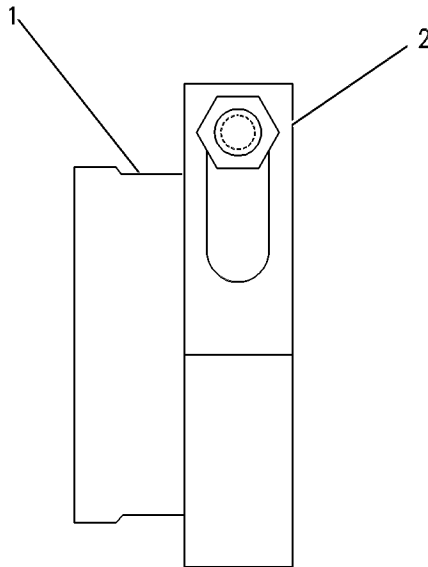
4 INCH WELDABLE PIPE

FOR USE WITH APPLICATIONS REQUIRING A STRAIGHT EXHAUST EXTENSION FROM TURBO
W/101.6 DIA TURBINE OUTLET
AN ATTACHMENT

SMCS-1061

i00638659

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9N-6325		ADAPTER-EXHAUST						
	2	1	1W-2431		CLAMP						



GRAPHIC #1

g00256347

AIR INLET AND EXHAUST SYSTEM

164-6118 FASTENER GP- INLET MANIFOLD

FOR USE WITH 153-1794-PAGE 314

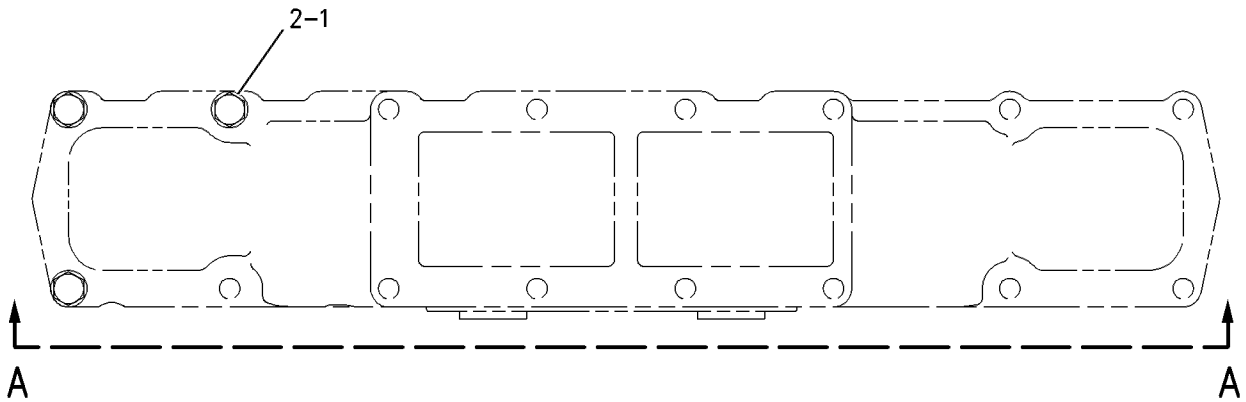
ALSO AN ATTACHMENT

SMCS-1058

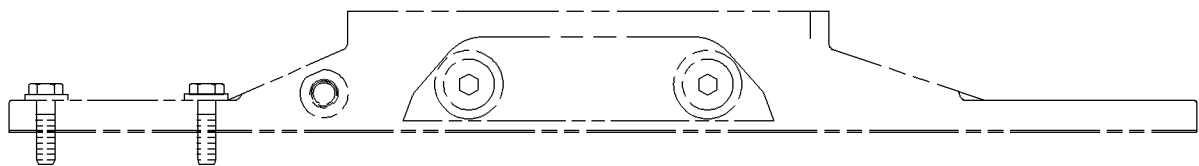
i00946270

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-2317	3	BOLT (M8X1.25X30MM)						
	2	1	9M-1974	3	WASHER-HARD (2MM THK)						

M-METRIC PART



TOP VIEW



VIEW A-A

GRAPHIC #1

g00482551

AIR INLET AND EXHAUST SYSTEM

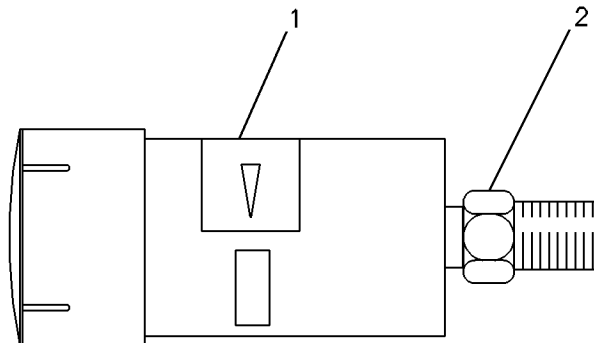
7E-5170 INDICATOR GP-AIR FILTER CHANGE

FOR USE WITH 1.1 L ENGINE, AIR CLEANER GPS
AN ATTACHMENT

SMCS-7452

i00639022

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-0613	1	INDICATOR-AIR FILTER SERVICE						
	2	1	5L-3233	1	FITTING						



GRAPHIC #1

g00220173

AIR INLET AND EXHAUST SYSTEM

208-3040 LINES GP-AIR

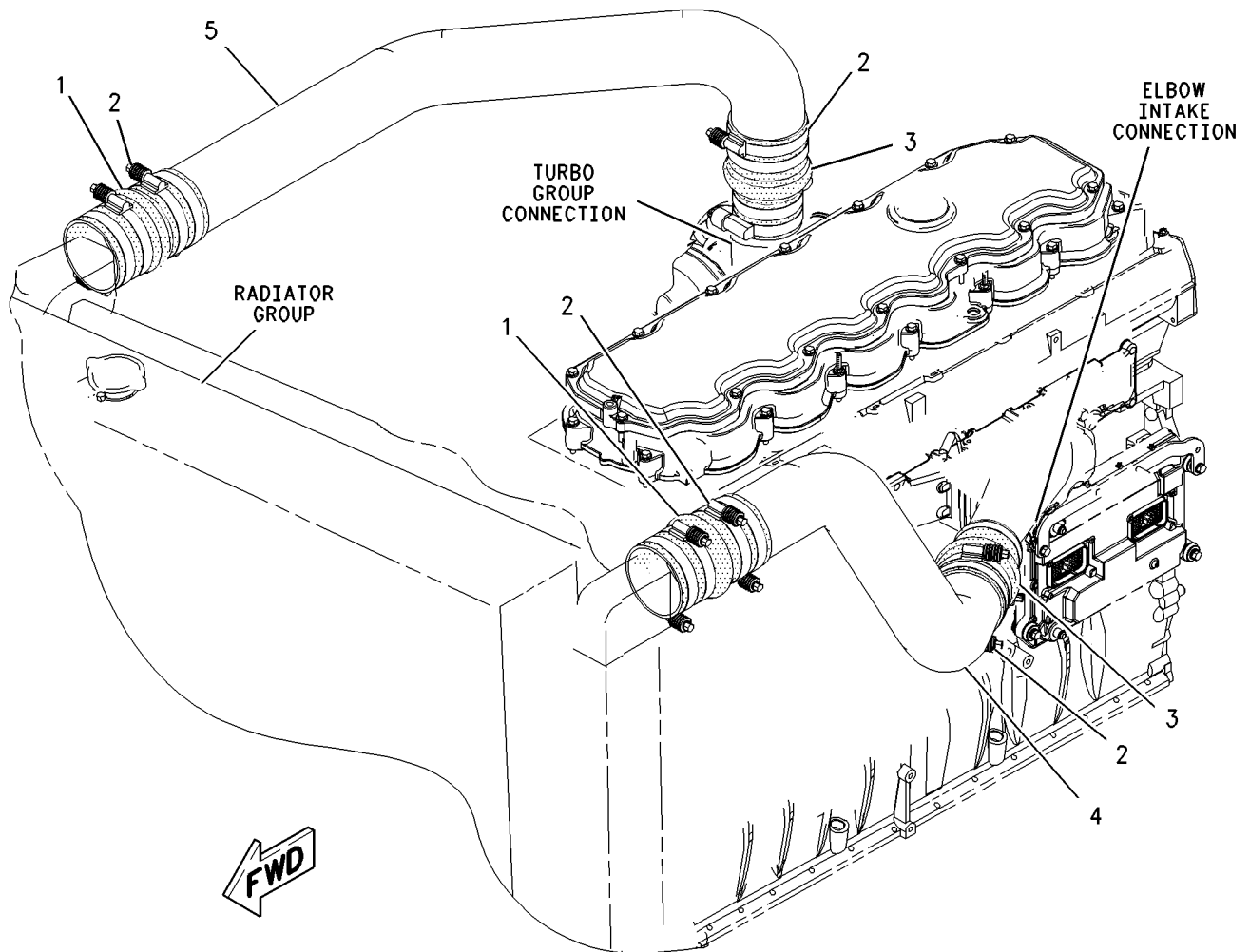
FOR USE WITH 137-5182-PAGE 315

AN ATTACHMENT

SMCS-1071

i01593332

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-7534	2	HOSE - HUMP						
	2	1	8T-4985	15	CLAMP - HOSE						
	3	1	211-9060	1	HOSE						
	4	1	211-9849	1	TUBE						
	5	1	211-9850	1	TUBE						



GRAPHIC #1

g00828365

AIR INLET AND EXHAUST SYSTEM

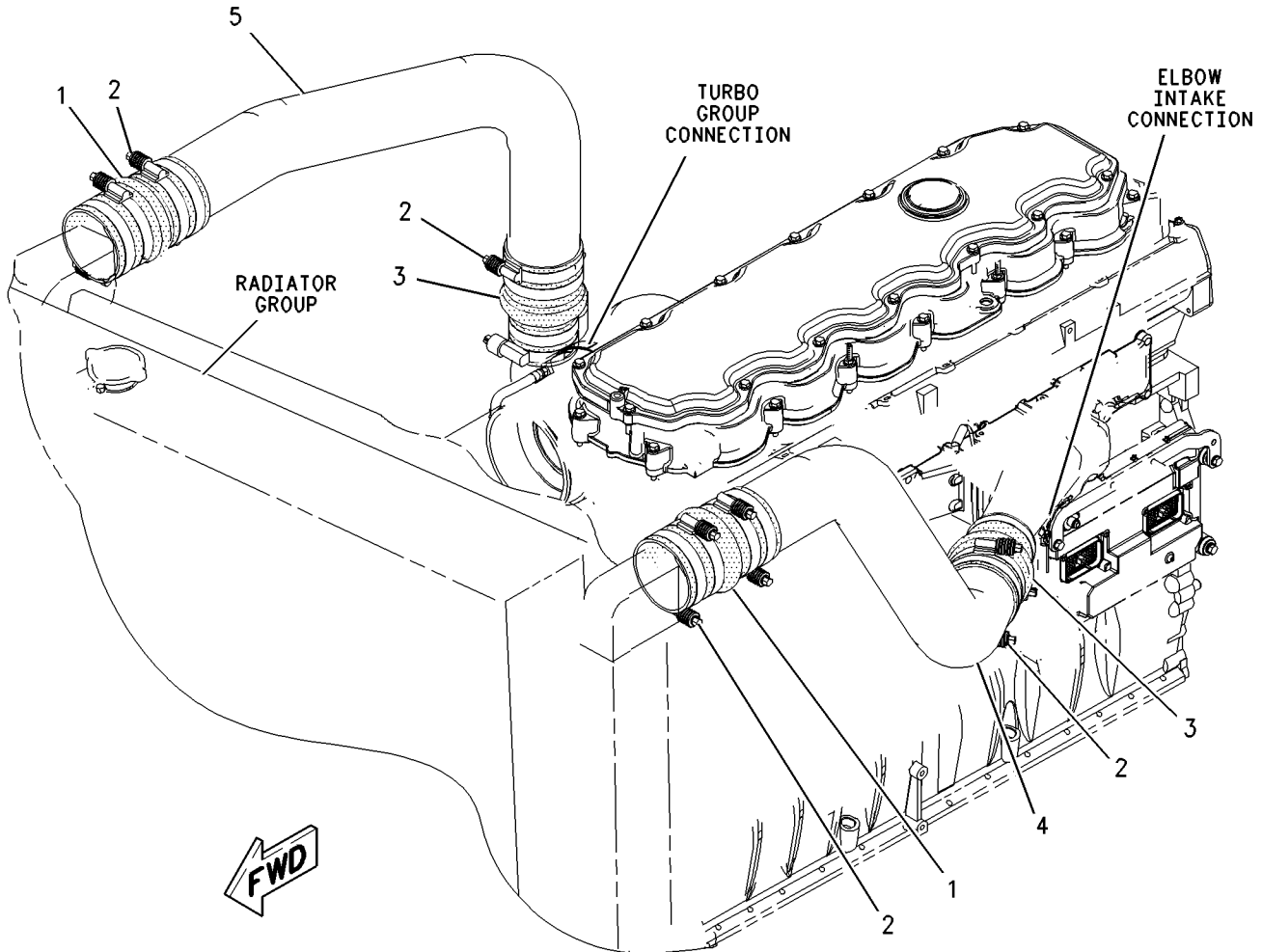
208-3042 LINES GP-AIR

REAR TURBO EXHAUST AN ATTACHMENT

SMCS-1071

i01593298

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-7534	2	HOSE - HUMP						
	2	1	8T-4985	15	CLAMP - HOSE						
	3	1	211-9060	2	HOSE						
	4	1	211-9849	1	TUBE						
	5	1	211-9851	1	TUBE						



GRAPHIC #1

g00828720

AIR INLET AND EXHAUST SYSTEM

127-3466 MANIFOLD GP-EXHAUST

DRY

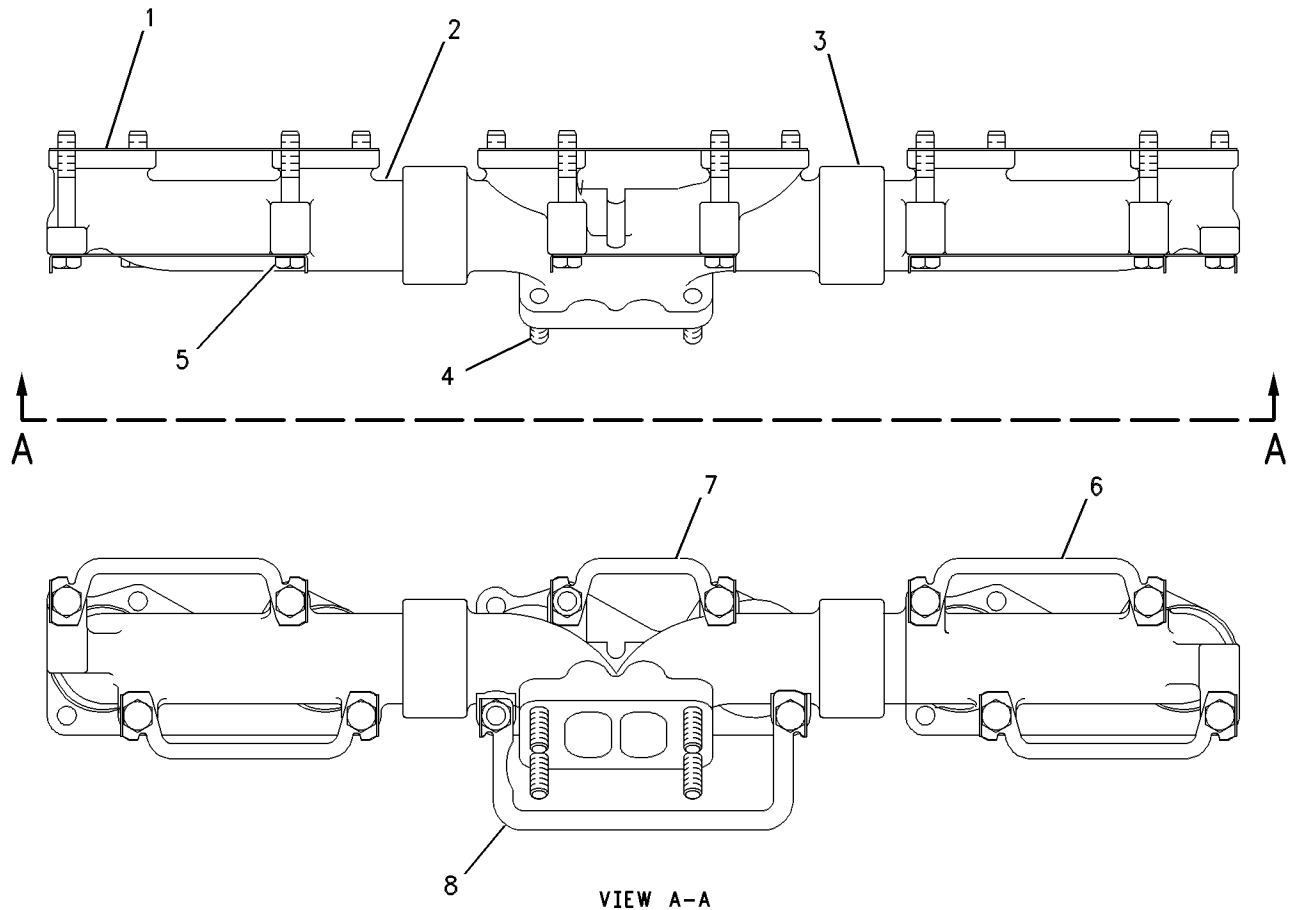
FOR USE WITH ENGINE RATED ABOVE 210 HP, REAR TURBO EXHAUST
ALSO AN ATTACHMENT

SMCS-1059

i01163038

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	154-8030	3	GASKET						
	2	1	127-3467	2	MANIFOLD-EXHAUST						
	3	1	156-0223	1	MANIFOLD (EXHAUST)						
M	4	1	8T-7044	4	STUD (M10)						
M	5	1	154-1582	12	BOLT-HEX HEAD (M10X1.5X75MM)						
	6	1	156-0235	4	LOCK						
	7	1	127-9810	1	LOCK						
	8	1	127-9811	1	LOCK						

M-METRIC PART



GRAPHIC #1

g00423798

AIR INLET AND EXHAUST SYSTEM

183-6845 MANIFOLD GP-EXHAUST

DRY

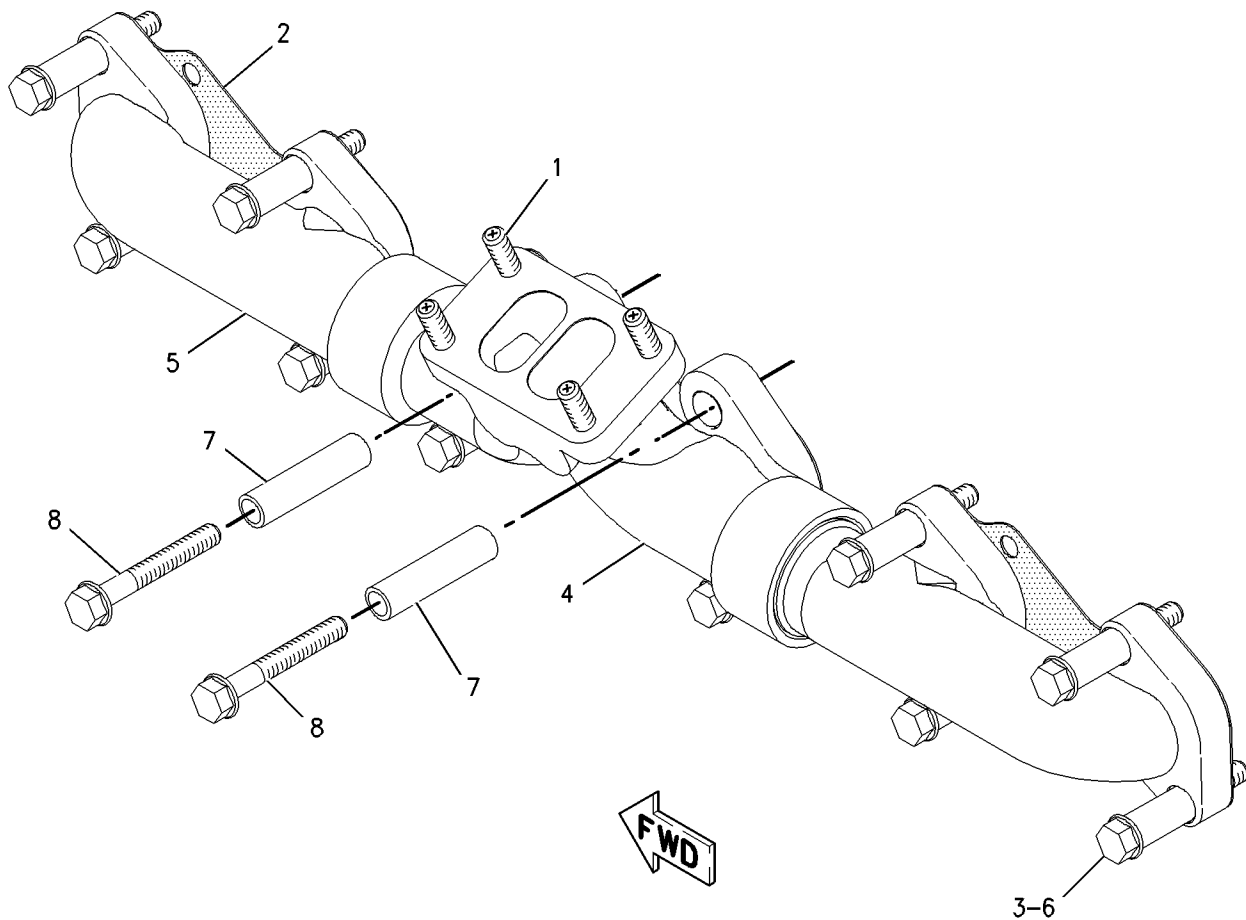
FOR USE WITH FRONT TURBO EXHAUST OR REAR EXHAUST, HIGH MOUNT
AN ATTACHMENT

SMCS-1059

i01600086

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	8T-7044	4	STUD-TAPERLOCK						
	2	1	172-6284	3	GASKET						
M	3	1	172-6298	10	BOLT-FLANGE HEAD (M10)						
	4	1	183-6854	1	MANIFOLD-EXHAUST						
	5	1	183-6856	2	MANIFOLD-EXHAUST						
	6	1	189-8772	10	SPACER						
	7	1	203-3768	2	SPACER						
	8	1	210-7722	2	BOLT						

M-METRIC PART



GRAPHIC #1

g00829483

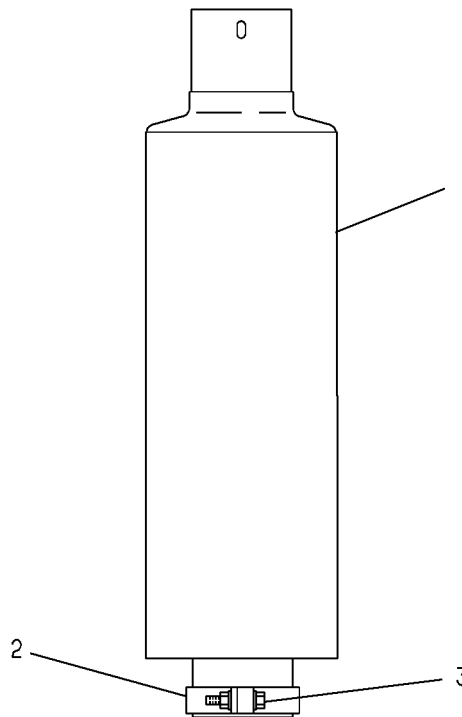
AIR INLET AND EXHAUST SYSTEM

109-6310 MUFFLER GP AN ATTACHMENT

SMCS-1062

i00638104

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7S-8443	1	MUFFLER						
	2	1	7H-4266	1	CLAMP						
	3	1	0S-1591	1	BOLT (3/8-16X1.5IN)						
		1	1B-5355	1	NUT-FULL (3/8-16THD)						



GRAPHIC #1

g00194691

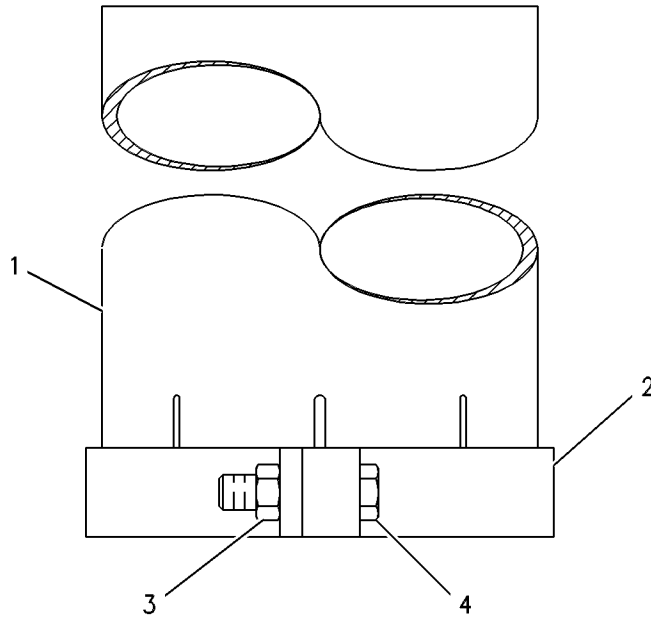
AIR INLET AND EXHAUST SYSTEM

109-6309 PIPE GP-EXHAUST 101.6 MM (4 IN.) DIAMETER STRAIGHT EXHAUST PIPE AN ATTACHMENT

SMCS-1061

i00638101

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6P-7912	1	PIPE-EXHAUST EXTENSION						
	2	1	6F-8815	1	CLAMP						
	3	1	1B-5355	1	NUT-FULL (3/8-16THD)						
	4	1	0S-1591	1	BOLT (3/8-16X1.5IN)						



GRAPHIC #1

g00250853

AIR INLET AND EXHAUST SYSTEM

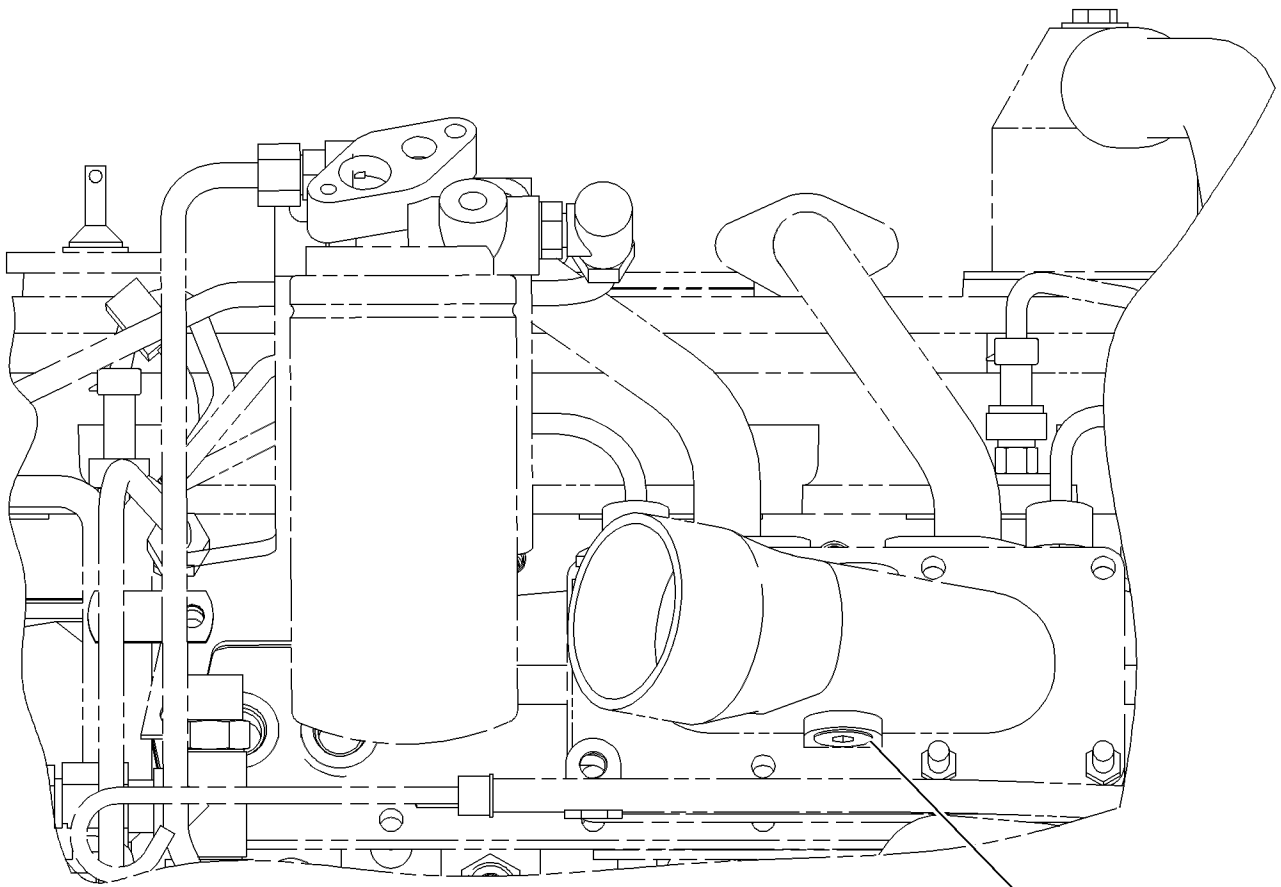
151-0864 PLUG GP-INLET MANIFOLD

PROVIDES PLUGS FOR 750 AIR COMPRESSOR.
FOR USE WITH UNUSED SENSOR PORT IN AIR INLET ELBOW
AN ATTACHMENT

SMCS-1058

i00838826

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9S-8005	1	PLUG-O-RING (3/4-16 THD)						
	2	1	3K-0360	1	SEAL-O-RING (16.36MM ID)						



LEFT SIDE VIEW

1-2

GRAPHIC #1

g00399430

AIR INLET AND EXHAUST SYSTEM

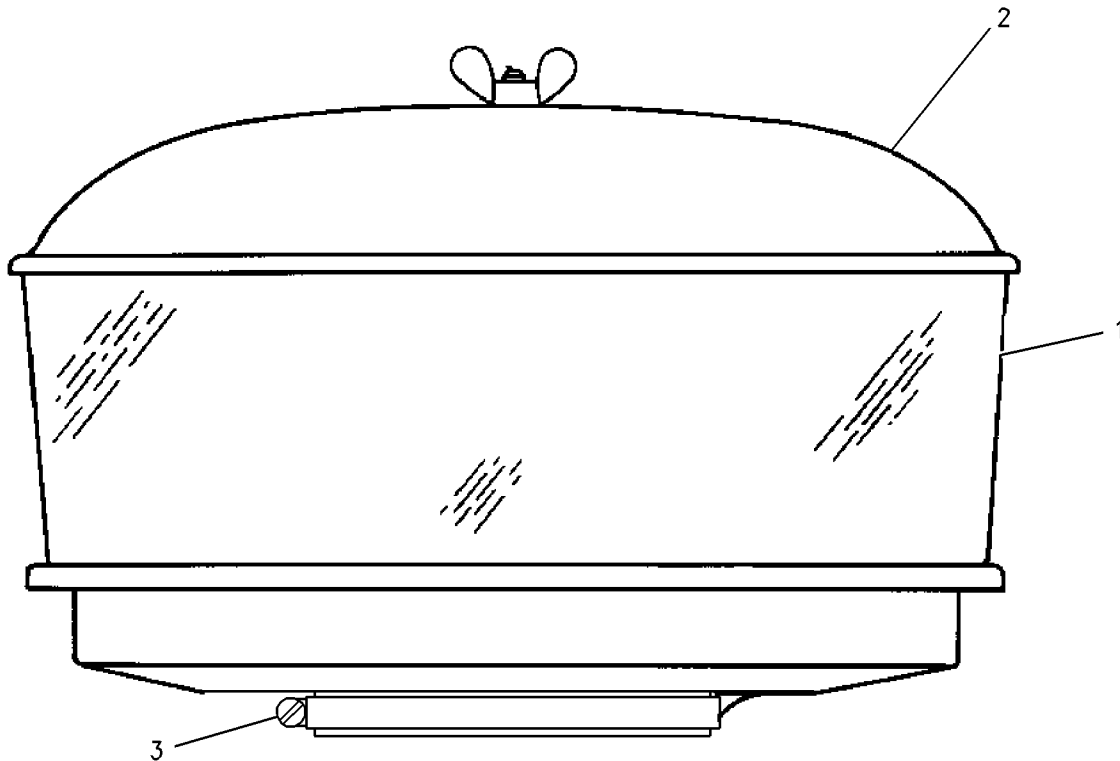
150-1713 PRECLEANER AS

FITS ONTO A 152.4 MM (6 INCH) DIA. INLET TUBE
AN ATTACHMENT

SMCS-1055

i01509359

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2S-6708	1	COLLECTOR-DUST						
	2	1	2S-2493	1	COVER AS-PRECLEANER						
	3	1	5P-0600	1	CLAMP (HOSE)						



GRAPHIC #1

g00762078

AIR INLET AND EXHAUST SYSTEM

124-3237 PRECLEANER GP

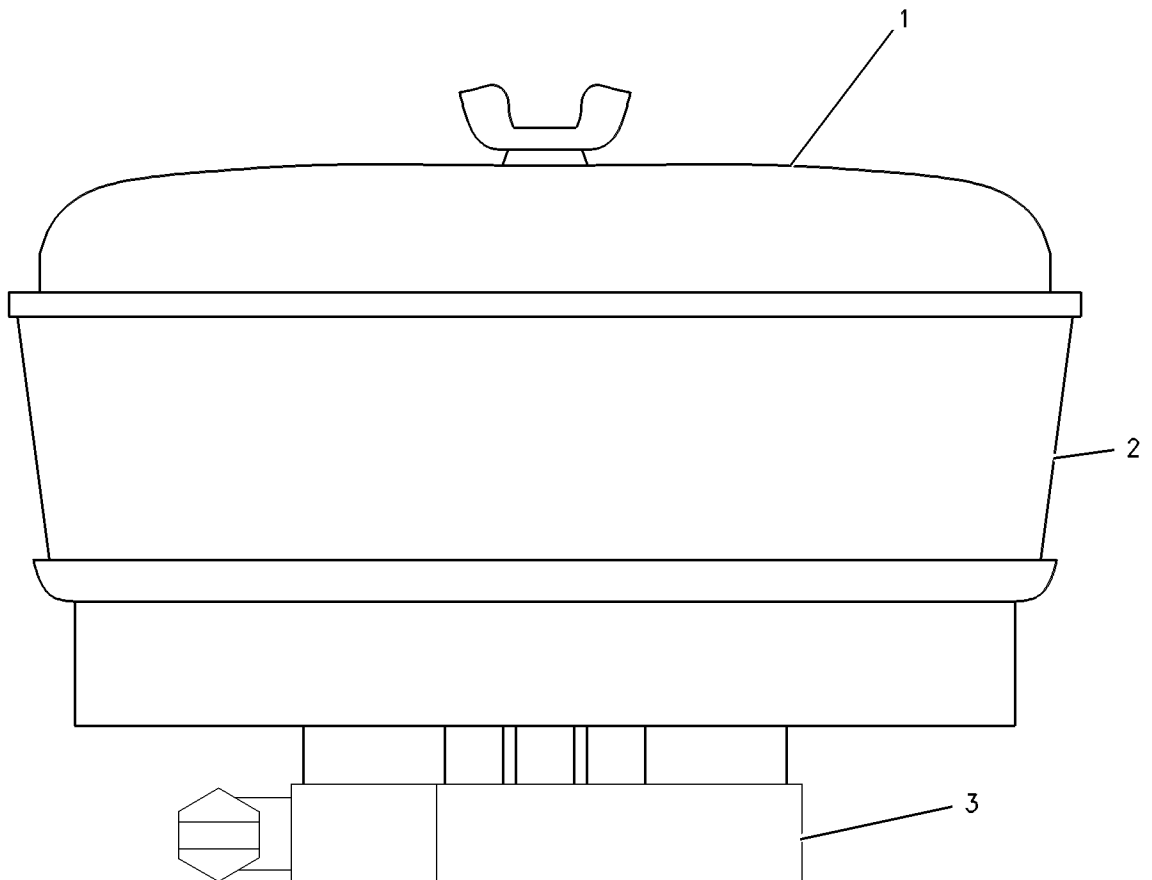
FOR USE WITH 108-8774—PAGE 308

AN ATTACHMENT

SMCS-1055

i01124722

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-5201	1	COVER AS						
	2	1	6H-8021	1	BODY - PRECLEANER						
	3	1	5P-0599	1	CLAMP (HOSE)						



GRAPHIC #1

g00595692

AIR INLET AND EXHAUST SYSTEM

191-8019 TURBOCHARGER GP

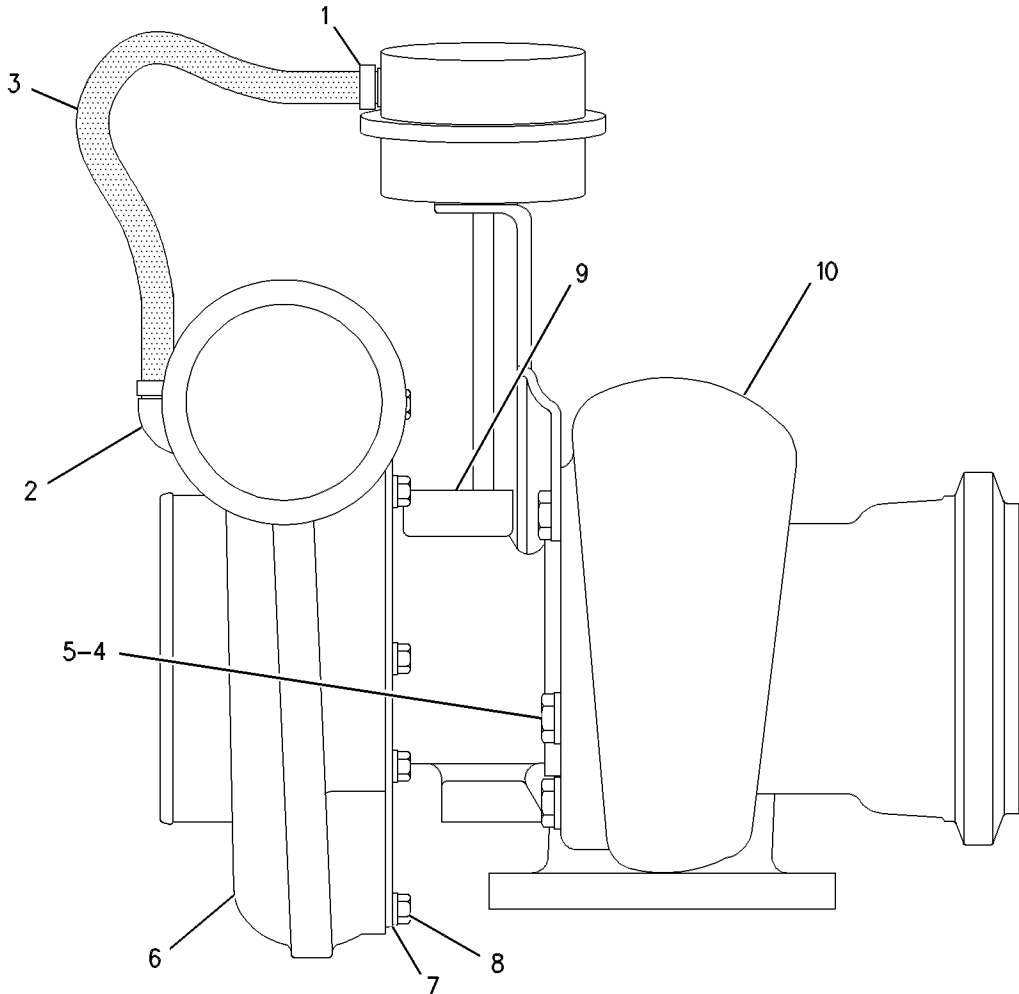
OUTLET IS ORIENTED 115 DEGREES OUTBOARD FROM TOP VERTICAL
FIELD REPLACEMENT FOR 191-8024—PAGE 337. FOR USE WITH 250-300 HP TRUCK ENGINES

SMCS-1052

i01344322

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-6963	2	CLAMP						
	2	1	5P-4536	1	ELBOW (90 DEGREE)						
	3	1	177-6920	1	HOSE						
M	4	1	7C-6670	4	BOLT (M8X12.5MM)						
	5	1	133-8524	2	PLATE-CLAMP (TURBINE)						
	6	1	143-5985	1	COVER AS-COMPRESSOR						
	7	1	121-9799	3	PLATE-CLAMP (COMPRESSOR)						
	8	1	125-5466	6	BOLT AS						
	9	1	191-8031	1	CARTRIDGE GP-TURBOCHARGER						
	10	1	191-8033	1	HOUSING AS-TURBINE						

M-METRIC PART



GRAPHIC #1

g00333533

AIR INLET AND EXHAUST SYSTEM

191-8024 TURBOCHARGER GP

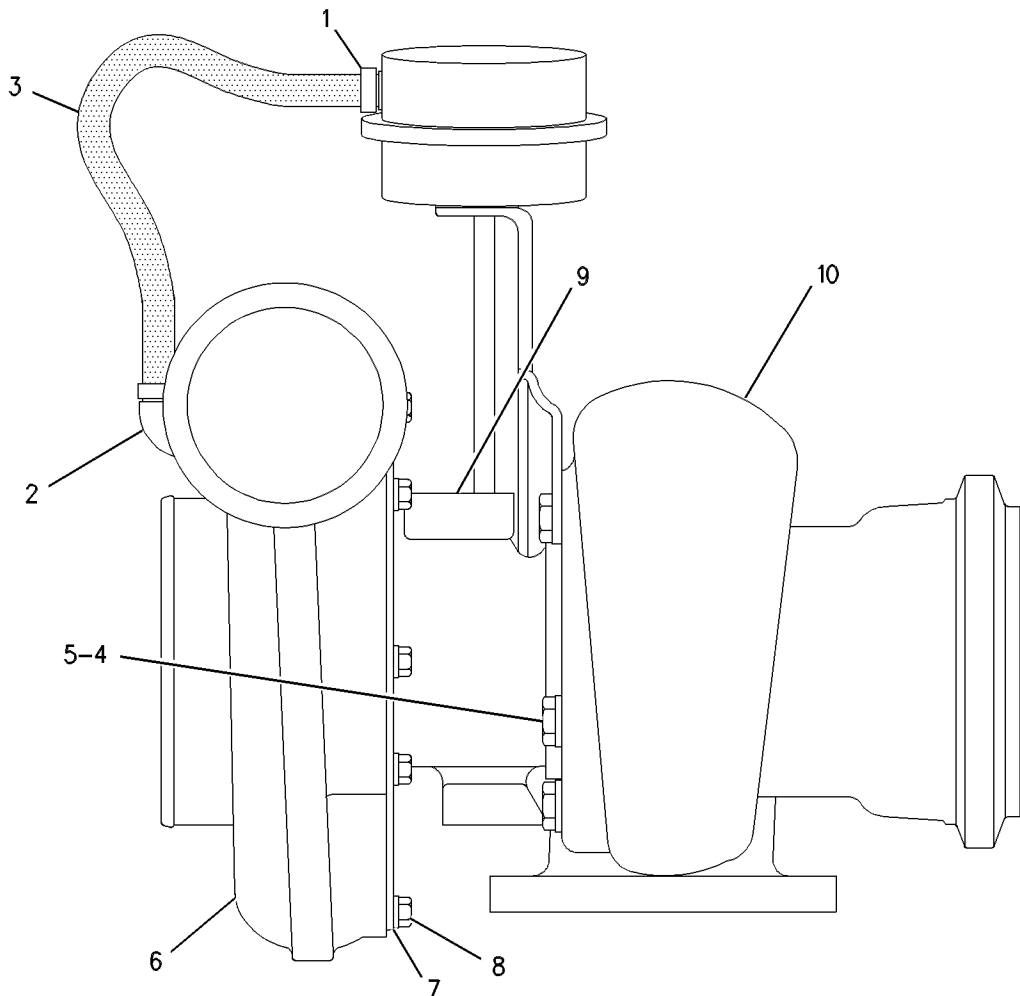
COMPRESSOR OUTLET IS ORIENTED 25 DEGREES OUTBOARD FROM TOP VERTICAL
 FIELD REPLACEMENT ORDER 191-8019—PAGE 336. FOR USE WITH 250-300 HP TRUCK ENGINES
 AN ATTACHMENT

SMCS-1052

i01344376

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-6963	2	CLAMP						
	2	1	5P-4536	1	ELBOW (90 DEGREE)						
	3	1	177-6920	1	HOSE						
M	4	1	7C-6670	4	BOLT (M8X12.5MM)						
	5	1	133-8524	2	PLATE-CLAMP (TURBINE)						
	6	1	143-5985	1	COVER AS-COMPRESSOR						
	7	1	121-9799	3	PLATE-CLAMP (COMPRESSOR)						
	8	1	125-5466	6	BOLT AS						
	9	1	191-8031	1	CARTRIDGE GP-TURBOCHARGER						
	10	1	191-8033	1	HOUSING AS-TURBINE						

M-METRIC PART



GRAPHIC #1

g00333533

AIR INLET AND EXHAUST SYSTEM

191-8028 TURBOCHARGER GP

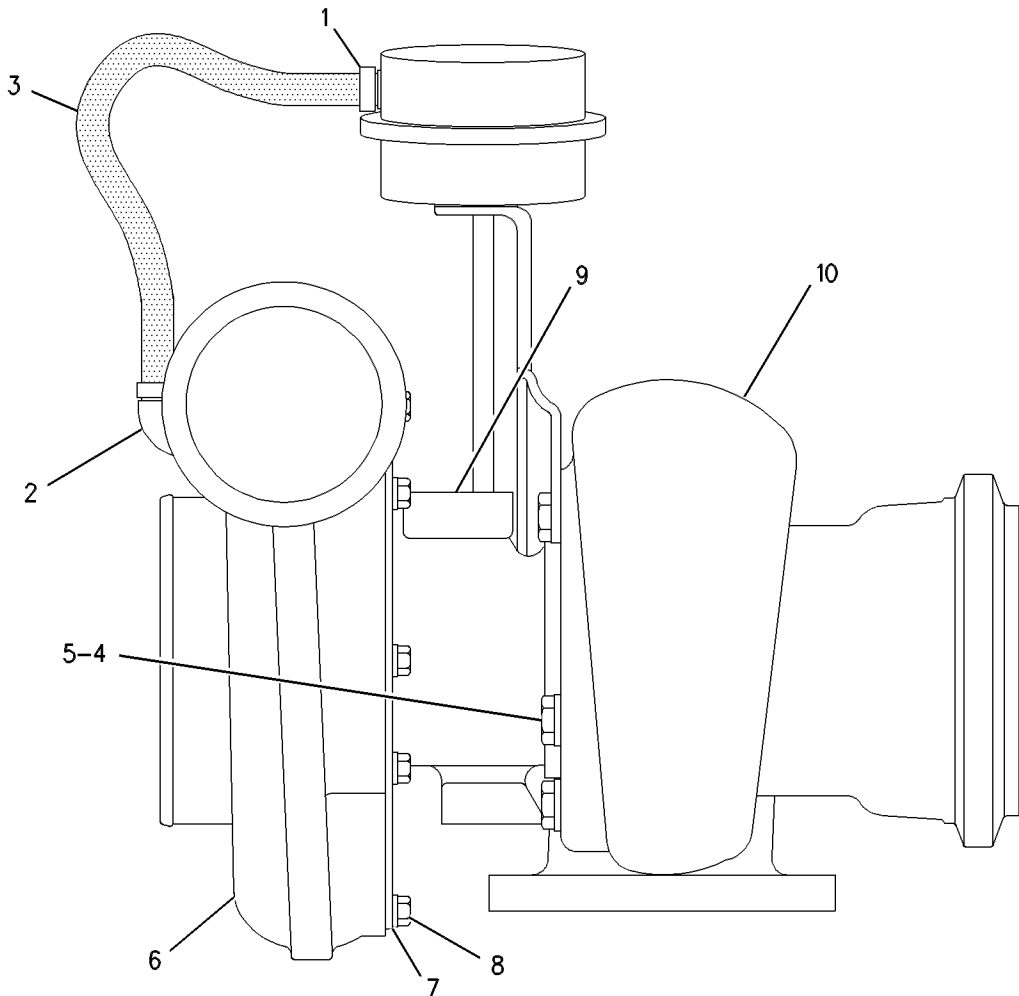
BASIC. 25 DEG INBOARD FROM TOP VERTICAL
AN ATTACHMENT

SMCS - 1052

i01344394

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-6963	2	CLAMP						
	2	1	5P-4536	1	ELBOW (90 DEGREE)						
	3	1	177-6920	1	HOSE						
M	4	1	7C-6670	4	BOLT (M8X12.5MM)						
	5	1	133-8524	2	PLATE-CLAMP (TURBINE)						
	6	1	143-5985	1	COVER AS-COMPRESSOR						
	7	1	121-9799	3	PLATE-CLAMP (COMPRESSOR)						
	8	1	125-5466	6	BOLT AS						
	9	1	191-8031	1	CARTRIDGE GP-TURBOCHARGER						
	10	1	166-0331	1	HOUSING AS-TURBINE						

M-METRIC PART



GRAPHIC #1

g00333533

AIR INLET AND EXHAUST SYSTEM

195-6000 TURBOCHARGER GP-BASIC

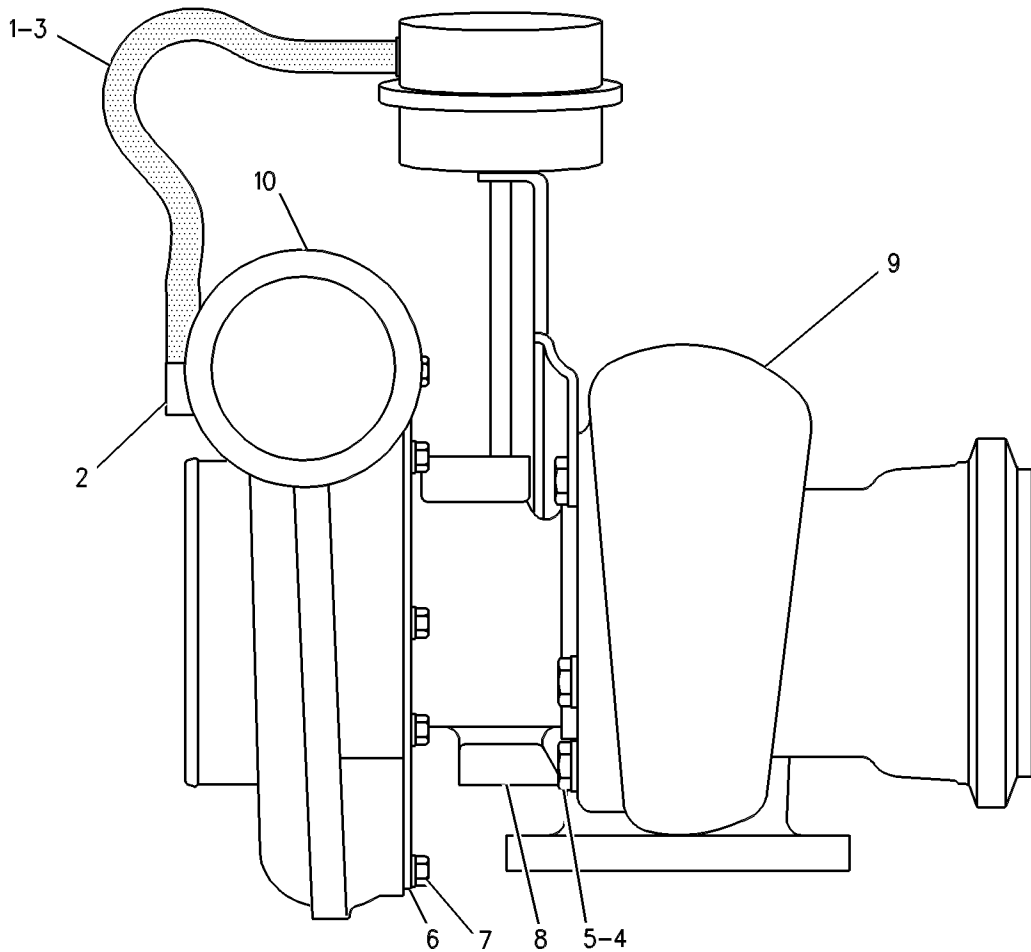
40 DEGREES
AN ATTACHMENT

SMCS-1052

i01469549

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-6963	2	CLAMP						
	2	1	5P-4536	1	ELBOW						
	3	1	177-6920	1	HOSE						
M	4	1	7C-6670	4	BOLT (M8X12.5MM)						
	5	1	7C-6672	2	PLATE-CLAMP						
	6	1	158-6072	1	CLAMP-COMPRESSOR						
	7	1	7M-9918	1	LOCKNUT (1/4-28 THRD)						
	8	1	195-6005	1	CARTRIDGE GP-TURBOCHARGER						
	9	1	174-0127	1	HOUSING AS-TURBINE						
	10	1	158-0504	1	COVER-COMPRESSOR						

M-METRIC PART



GRAPHIC #1

g00286886

AIR INLET AND EXHAUST SYSTEM

197-4998 TURBOCHARGER GP-BASIC

COMPRESSOR OUTLET IS ORIENTATED 40 DEGREES OUTBOARD FROM TOP VERTICAL
ALSO AN ATTACHMENT

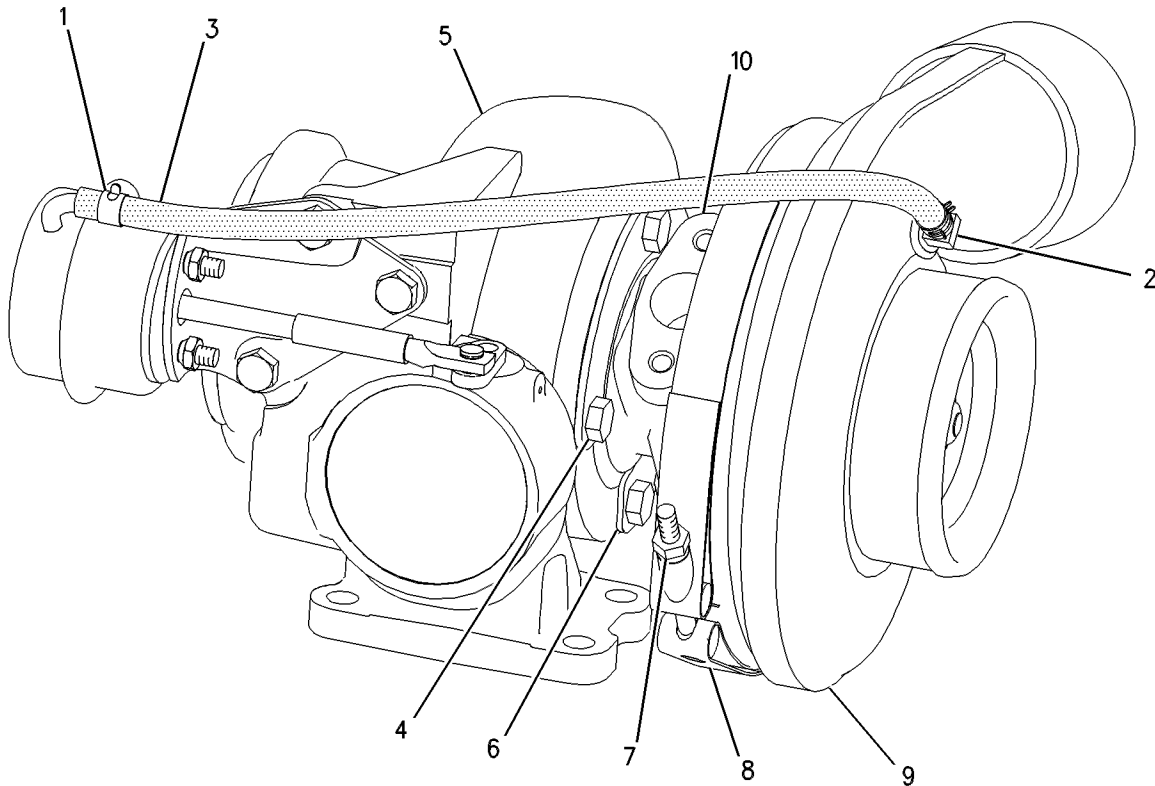
SMCS - 1052

i01449815

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-6963	2	CLAMP						
	2	1	5P-4536	1	ELBOW						
	3	1	177-6920	1	HOSE						
M	4	1	7C-6670	4	BOLT (M8X12.5MM)						
	5	1	174-0128	1	HOUSING AS-TURBINE						
	6	1	133-8524	2	PLATE-CLAMP (TURBINE)						
	7	1	7M-9918	1	LOCKNUT						
	8	1	158-6072	1	CLAMP-COMPRESSOR						
	9	1	192-0953	1	COVER-COMPRESSOR						
R	10	1	191-8032	1	CARTRIDGE GP-TURBOCHARGER						

M-METRIC PART

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

g00606204

AIR INLET AND EXHAUST SYSTEM

199-6064 TURBOCHARGER GP

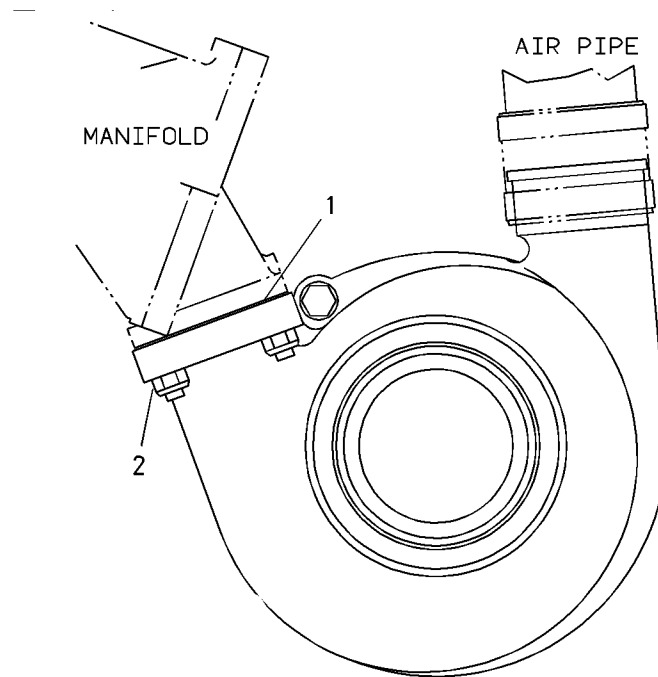
S/N: BEJ1-161

SMCS-1052

i01440308

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-7431	1	GASKET - TURBOCHARGER						
M	2	1	9X-6620	4	LOCKNUT (M10X1.5 THD)						

M-METRIC PART



GRAPHIC #1

g00754861

AIR INLET AND EXHAUST SYSTEM

201-6842 TURBOCHARGER GP

BASIC

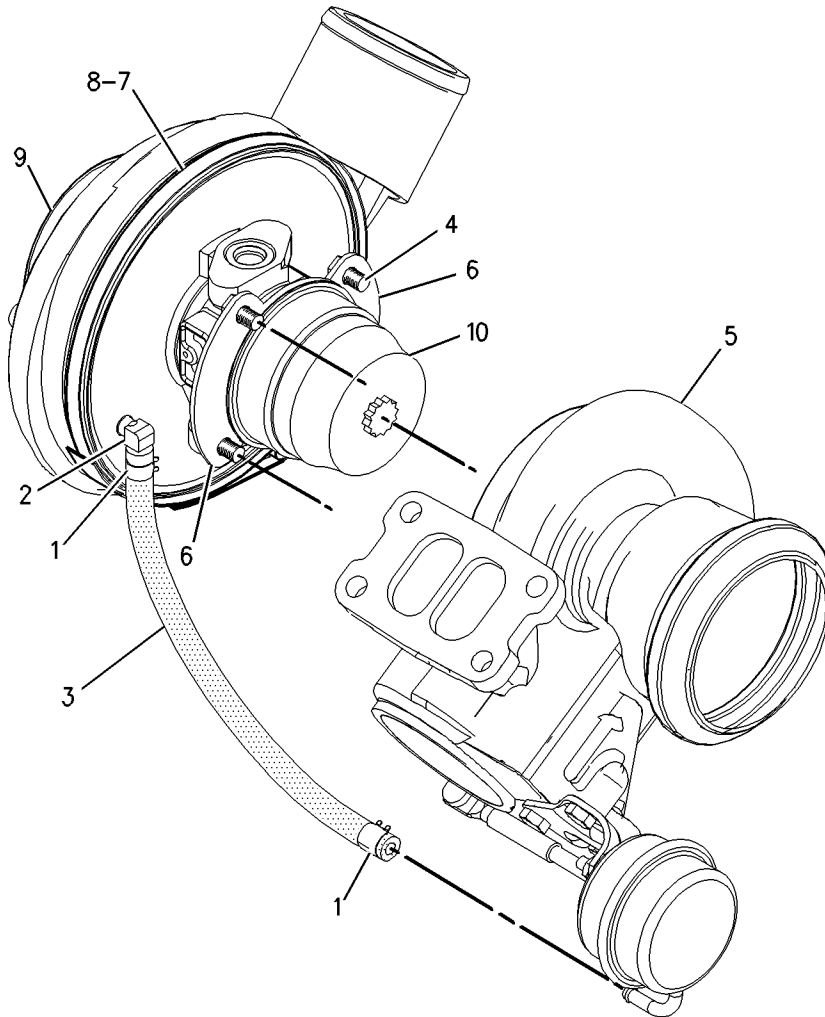
FOR USE WITH LOW HP ENGINES WITH FRONT EXHAUST
AN ATTACHMENT

SMCS - 1052

i01561880

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-6963	2	CLAMP						
	2	1	5P-4536	1	ELBOW						
	3	1	177-6920	1	HOSE						
M	4	1	7C-6670	4	BOLT (M8X12.5MM)						
	5	1	205-9952	1	HOUSING AS-TURBINE						
	6	1	7C-6672	2	PLATE-CLAMP						
	7	1	7M-9918	1	LOCKNUT (1/4-28 THD)						
	8	1	158-6072	1	CLAMP AS (COMPRESSOR)						
	9	1	158-0504	1	COVER-COMPRESSOR						
	10	1	201-6844	1	CARTRIDGE GP-TURBOCHARGER						

M-METRIC PART



GRAPHIC #1

g00786286

AIR INLET AND EXHAUST SYSTEM

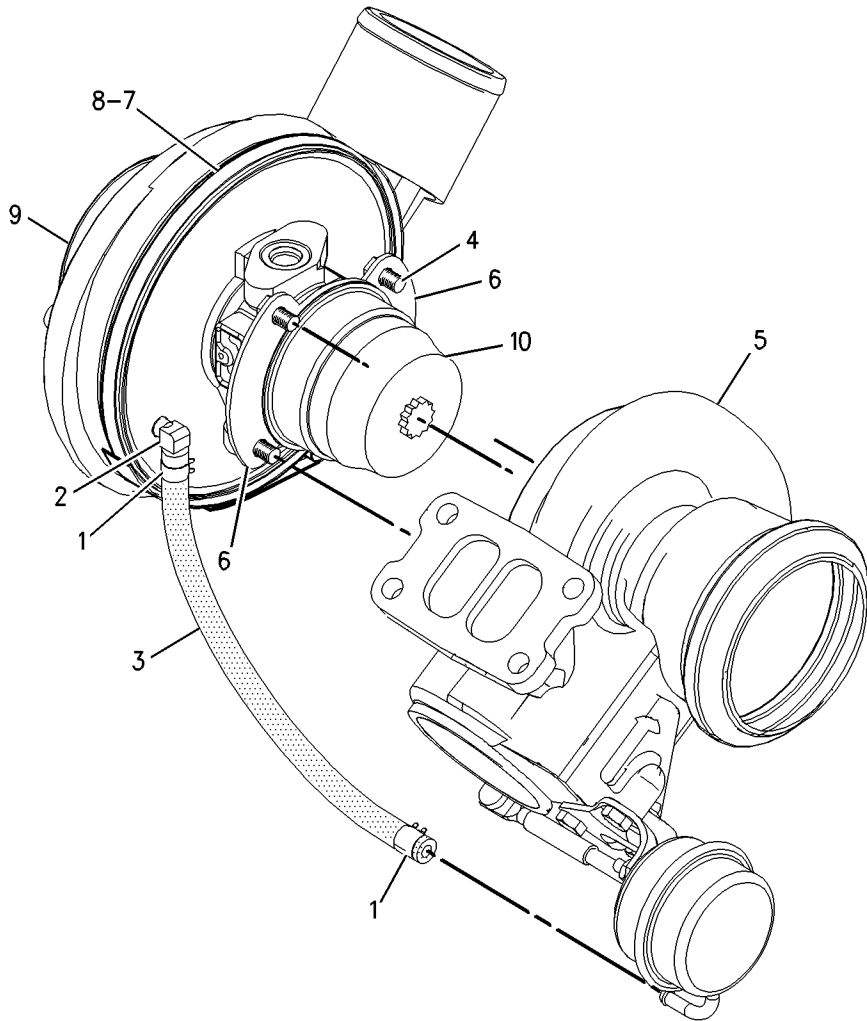
201-6846 TURBOCHARGER GP FOR USE WITH HIGH HP ENGINES WITH FRONT EXHAUST AN ATTACHMENT

SMCS - 1052

i01558364

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-6963	2	CLAMP						
	2	1	5P-4536	1	ELBOW						
	3	1	177-6920	1	HOSE						
M	4	1	7C-6670	4	BOLT (M8X12.5MM)						
	5	1	205-9951	1	HOUSING AS-TURBINE						
	6	1	133-8524	2	PLATE-CLAMP (TURBINE)						
	7	1	7M-9918	1	LOCKNUT (1/4-28 THRD)						
	8	1	158-6072	1	CLAMP-COMPRESSOR						
	9	1	192-0953	1	COVER-COMPRESSOR						
	10	1	201-6847	1	CARTRIDGE GP-TURBOCHARGER						

M-METRIC PART



GRAPHIC #1

g00786215

AIR INLET AND EXHAUST SYSTEM

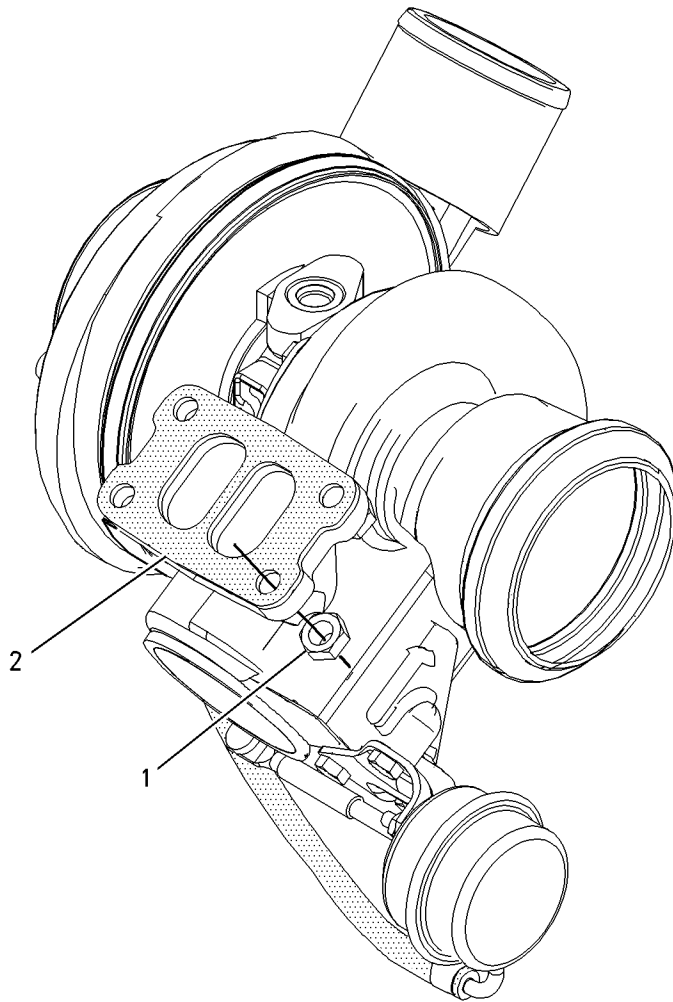
201-9634 TURBOCHARGER GP FOR USE WITH LOW HP ENGINE WITH REAR EXHAUST ALSO AN ATTACHMENT

SMCS-1052

i01496284

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	3E-8017	4	LOCKNUT (M10X1.5)						
	2	1	7C-7431	1	GASKET - TURBOCHARGER						

M-METRIC PART



GRAPHIC #1

g00786282

AIR INLET AND EXHAUST SYSTEM

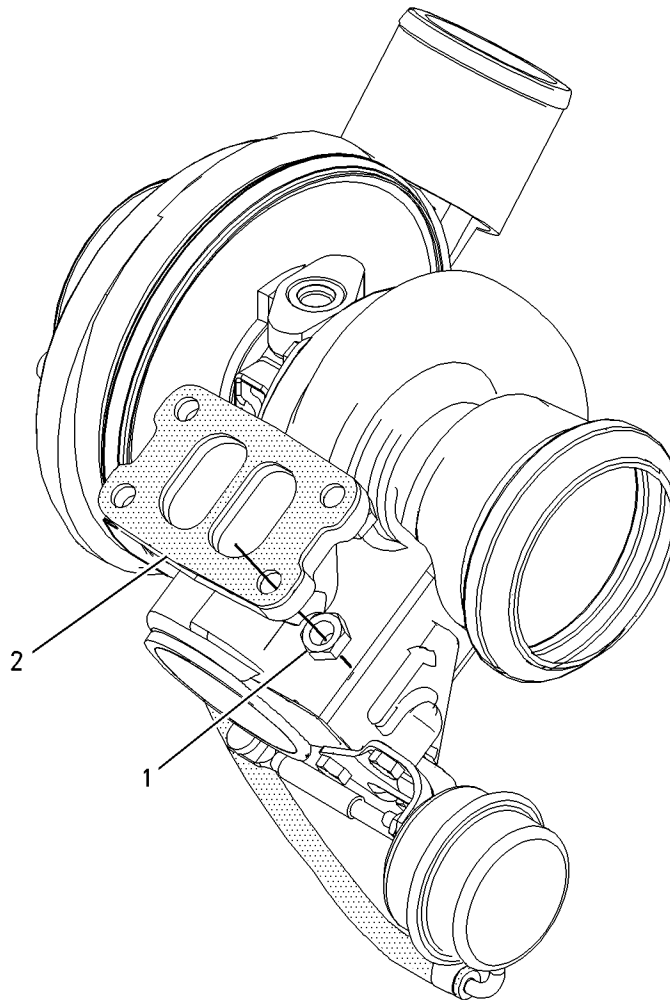
201-9635 TURBOCHARGER GP FOR USE WITH HIGH HP ENGINE WITH REAR EXHAUST ALSO AN ATTACHMENT

SMCS-1052

i01496274

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	3E-8017	4	LOCKNUT (M10X1.5)						
	2	1	7C-7431	1	GASKET - TURBOCHARGER						

M-METRIC PART



GRAPHIC #1

g00786240

FUEL SYSTEM

116-5410 COVER GP-FUEL FILTER BASE

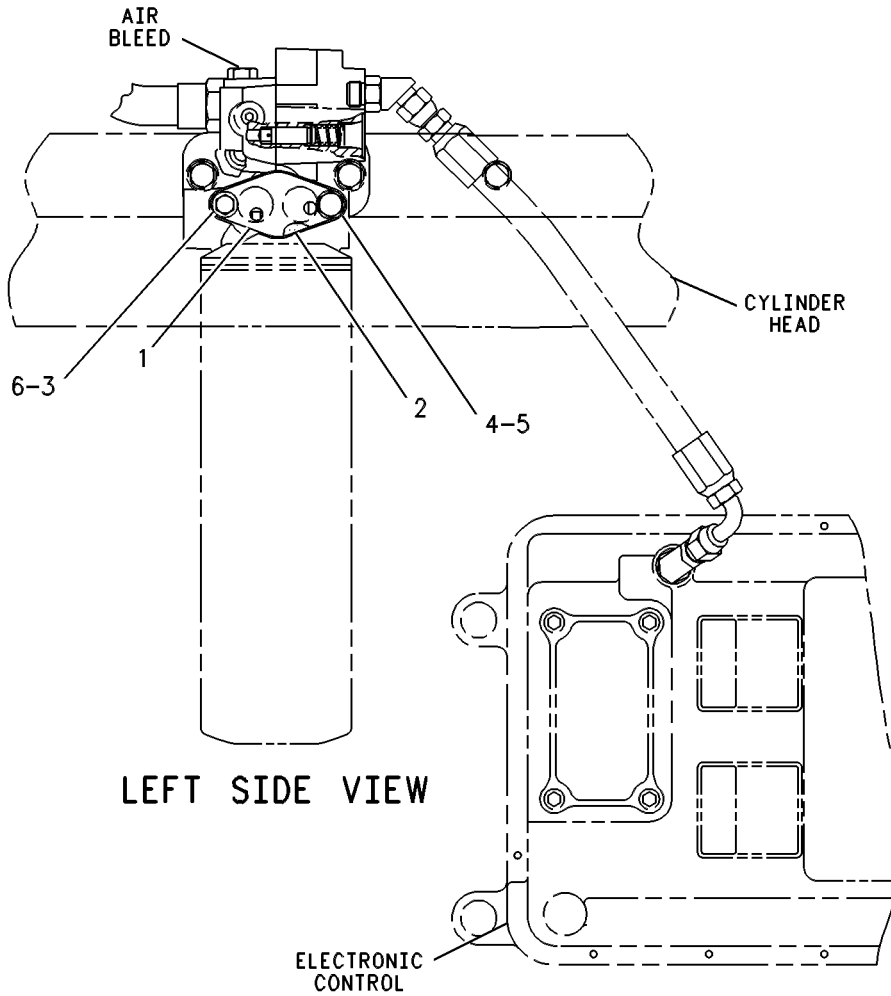
PROVIDES COVER AND SEAL WHEN NO PRIMING PUMP IS REQUIRED
FOR USE WITH 129-3204-PAGE 348
AN ATTACHMENT

SMCS-1262

i01416318

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6N-4414	1	COVER-FILTER BASE						
	2	1	1P-0436	1	GASKET (FUEL PRIMING PUMP)						
M	3	1	8T-0640	1	BOLT (M6X1.0X30MM)						
M	4	1	6V-5218	1	BOLT (M8X1.25X35MM)						
	5	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
	6	1	5P-0537	1	WASHER-HARD (7.2X14.5X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00251295

MEMORANDA

FUEL SYSTEM

129-3204 FILTER GP-FUEL

SECONDARY
AN ATTACHMENT

SMCS-1261

i01481426

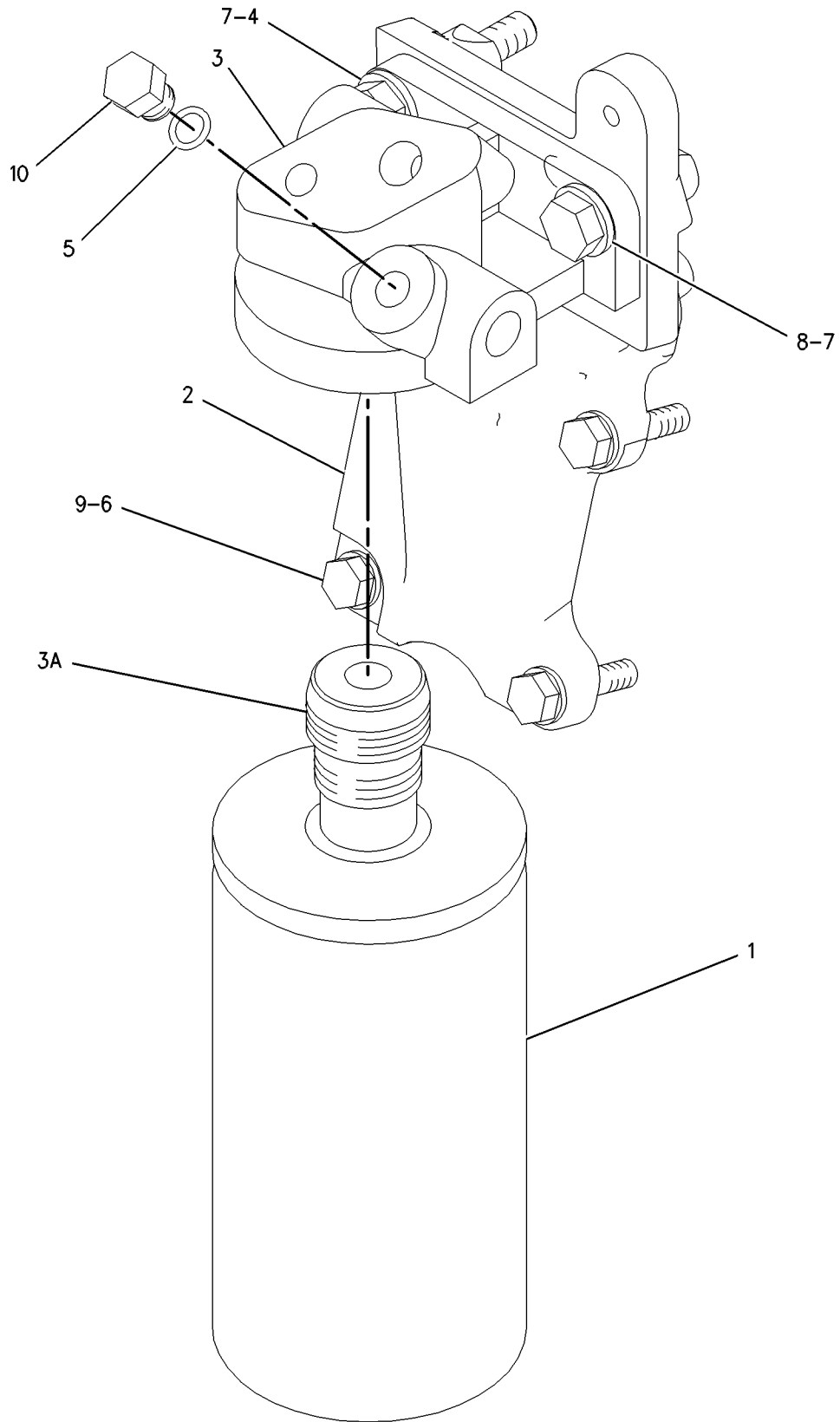
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1R-0751	1	FILTER AS-FUEL						
	2	1	163-8702	1	BRACKET-FUEL FILTER						
	3	1	141-5138	1	BASE AS-FUEL FILTER						
	3A	1	112-6523	1	INSERT-FUEL FILTER						
M	4	1	160-8742	1	BOLT-HEX HEAD						
	5	1	6V-5048	1	SEAL-O-RING						
M	6	1	6V-5218	4	BOLT (M8X1.25X35MM)						
	7	1	8T-4121	2	WASHER-HARD (11X21X2.5MM THK)						
M	8	1	8T-4196	1	BOLT (M10X1.5X35MM)						
	9	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	10	1	9S-4182	1	PLUG-O-RING						

M-METRIC PART

FUEL SYSTEM

129-3204 FILTER GP-FUEL (contd.)

i01481426



GRAPHIC #1

g00774245

FUEL SYSTEM

201-5949 FILTER GP-FUEL

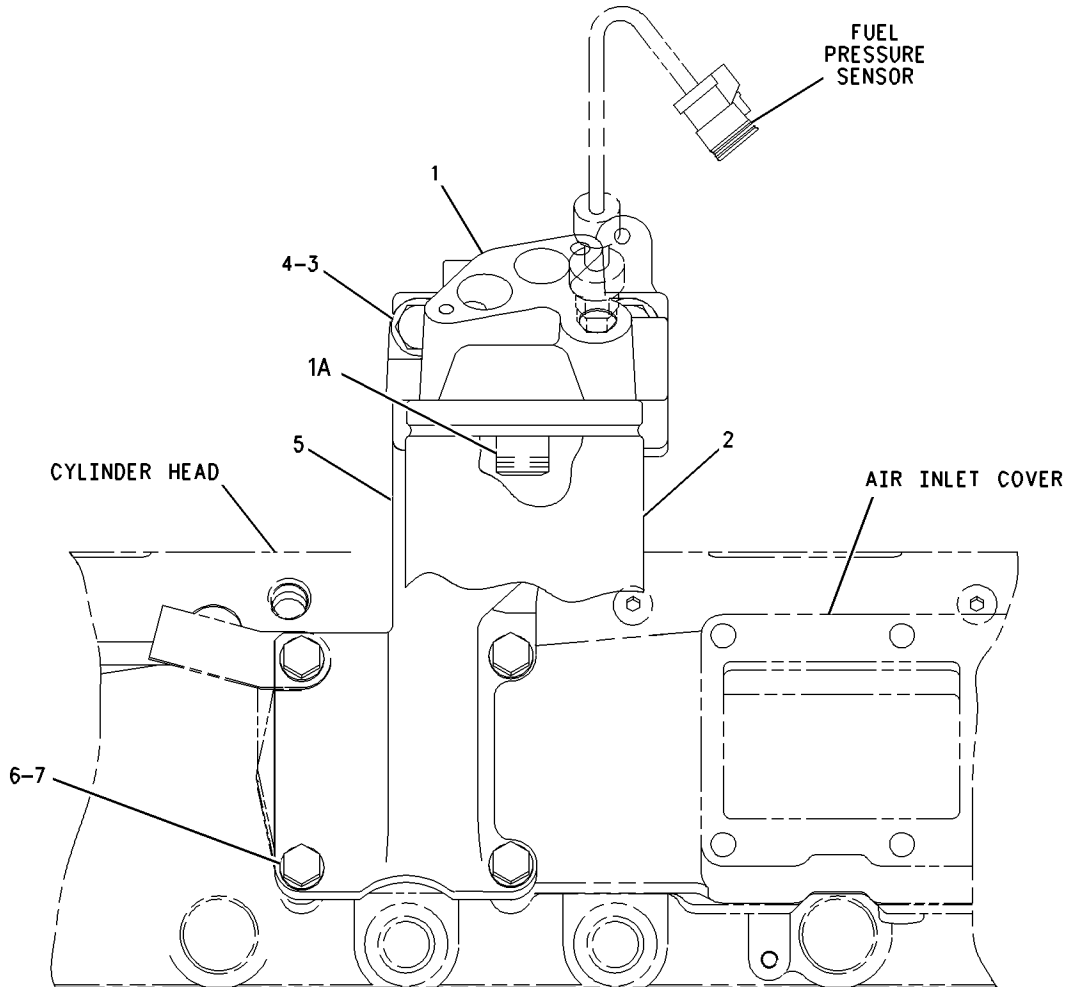
FOR USE WITH FUEL PRESSURE SENSOR WHEN INSTALLED ON FILTER BASE
AN ATTACHMENT

SMCS-1261

i01458326

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	141-5138	1	BASE AS-FUEL FILTER						
	1A	1	112-6523	1	INSERT-FUEL FILTER						
	2	1	1R-0751	1	FILTER AS-FUEL						
M	3	1	8T-4196	2	BOLT (M10X1.5X35MM)						
	4	1	8T-4121	2	WASHER-HARD (11X21X2.5MM THK)						
	5	1	163-8702	1	BRACKET-FUEL FILTER						
M	6	1	6V-5218	4	BOLT (M8X1.25X35MM)						
	7	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00762262

FUEL SYSTEM

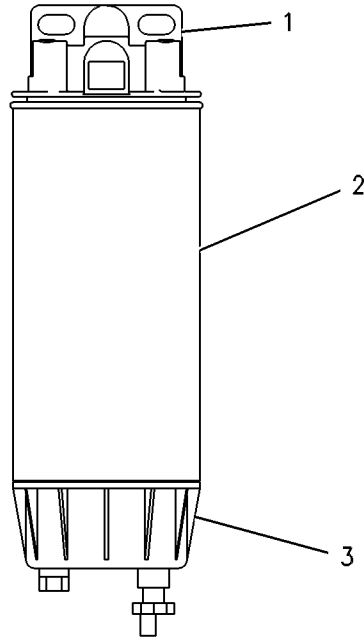
133-5671 FILTER GP-WATER SEP & FUEL

PRIMARY
AN ATTACHMENT

SMCS-1261, 1263

i01552520

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	137-4367	1	BASE AS						
	2	1	133-5673	1	ELEMENT-FILTER (FUEL/WATER SEPARATOR) (PRIMARY)						
	3	1	129-0375	1	BOWL AS-WATER COLLECTION						
					AVAILABLE REPLACEMENT PART(S) :						
			141-0284		KIT-FUEL FILTER & WATER SEP (THIS KIT PROVIDES REPLACEMENT SEALS FOR SEALS DAMAGED DURING INSTALLATION OF REPLACEMENT ELEMENT AND/OR BOWL)						
			155-2629	1	BOWL AS-WATER COLLECTION (12 VOLT HEATER)						
			157-1206	1	BOWL AS-WATER COLLECTION (24 VOLT HEATER)						



GRAPHIC #1

g00262735

FUEL SYSTEM

174-9570 FILTER GP-WATER SEP & FUEL

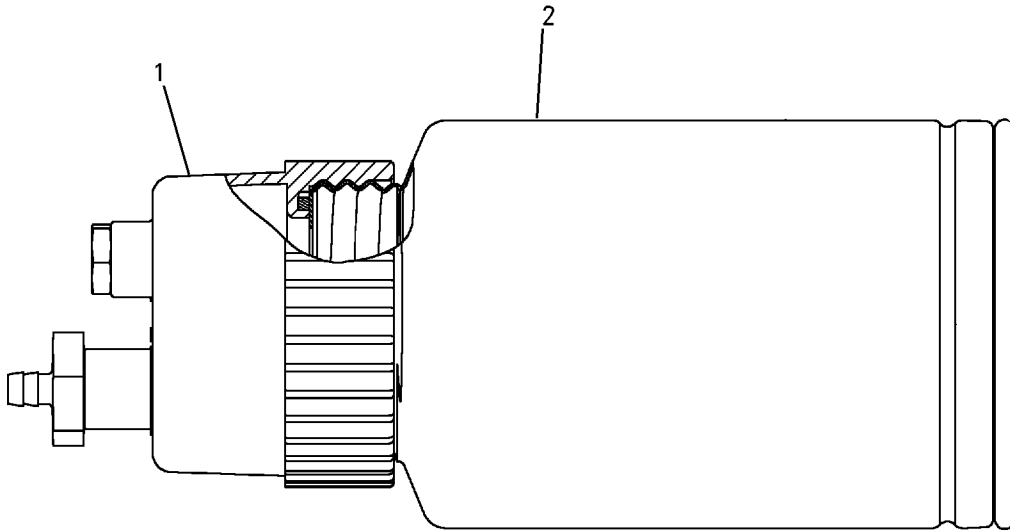
PART OF 183-5876 FILTER GP-WATER SEP & FUEL

AN ATTACHMENT

SMCS-1261, 1263

i01515678

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	173-7126	1	BOWL AS						
		1	5F-9144	1	SEAL-O-RING						
		1	6V-5049	1	SEAL-O-RING						
	2	1	1R-0770	1	FILTER AS-WATER SEP & FUEL						



GRAPHIC #1

g00787237

FUEL SYSTEM

183-5876 FILTER GP-WATER SEP & FUEL

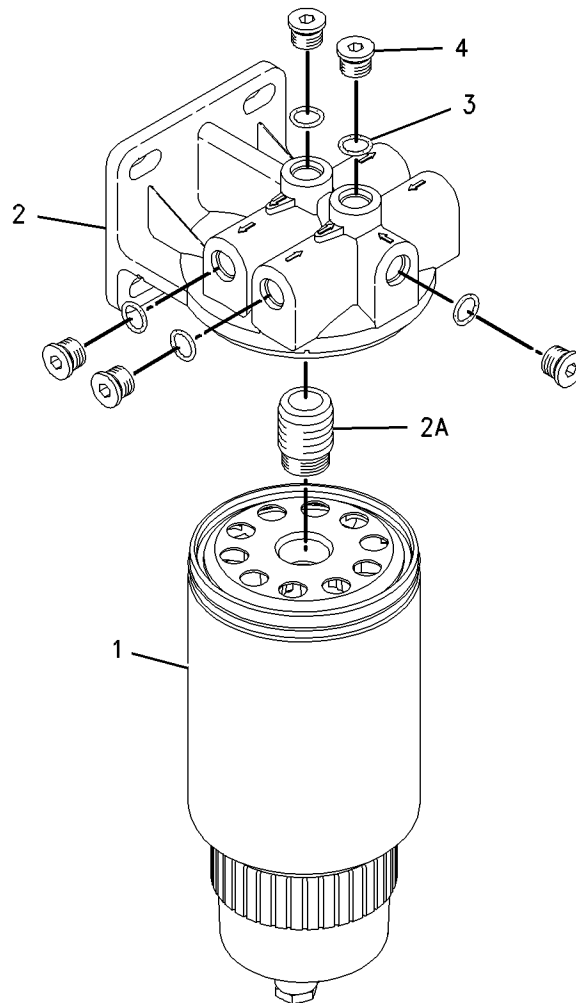
MULTIPLE PORTING
AN ATTACHMENT

SMCS-1261, 1263

i01547067

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	174-9570	1	FILTER GP-WATER SEP & FUEL						352
	2	1	177-9778	1	BASE AS						
		1	9S-4167	1	STUD-HOLLOW						
	3	1	190-7634	5	SEAL-O-RING						
	4	1	9S-8004	5	PLUG						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00783499

FUEL SYSTEM

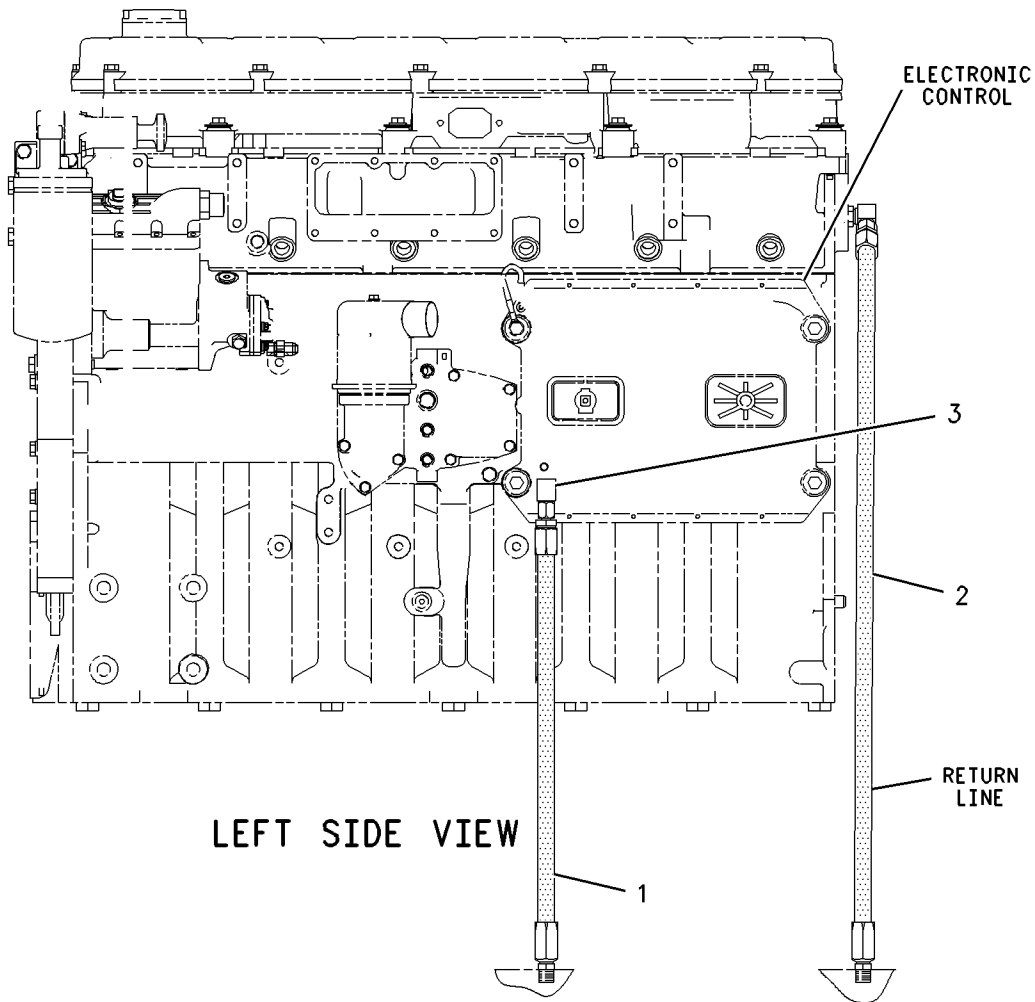
203-3154 LINES GP-FLEXIBLE FUEL AN ATTACHMENT

SMCS-1274

i01515591

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	3N-4846	1	HOSE AS						
I	2	1	9Y-7332	1	HOSE AS						
	3	1	6K-9194	1	ELBOW						

I-SEE HOSE FABRICATION GUIDE



GRAPHIC #1

g00789120

MEMORANDA

FUEL SYSTEM

199-6306 LINES GP-FUEL

FOR USE WITH FUEL COOLED ECM

AN ATTACHMENT

SMCS-1252, 1274

i01575739

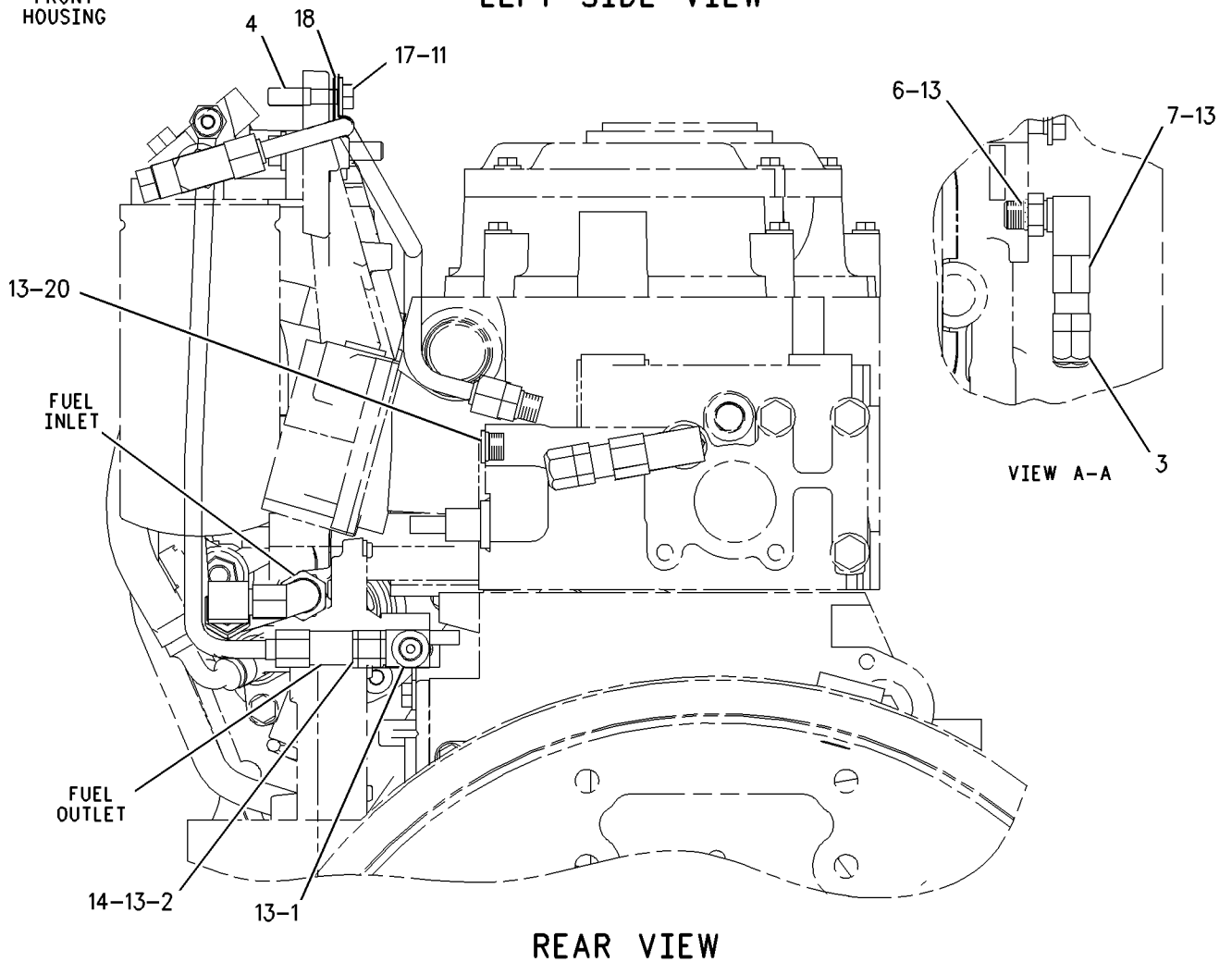
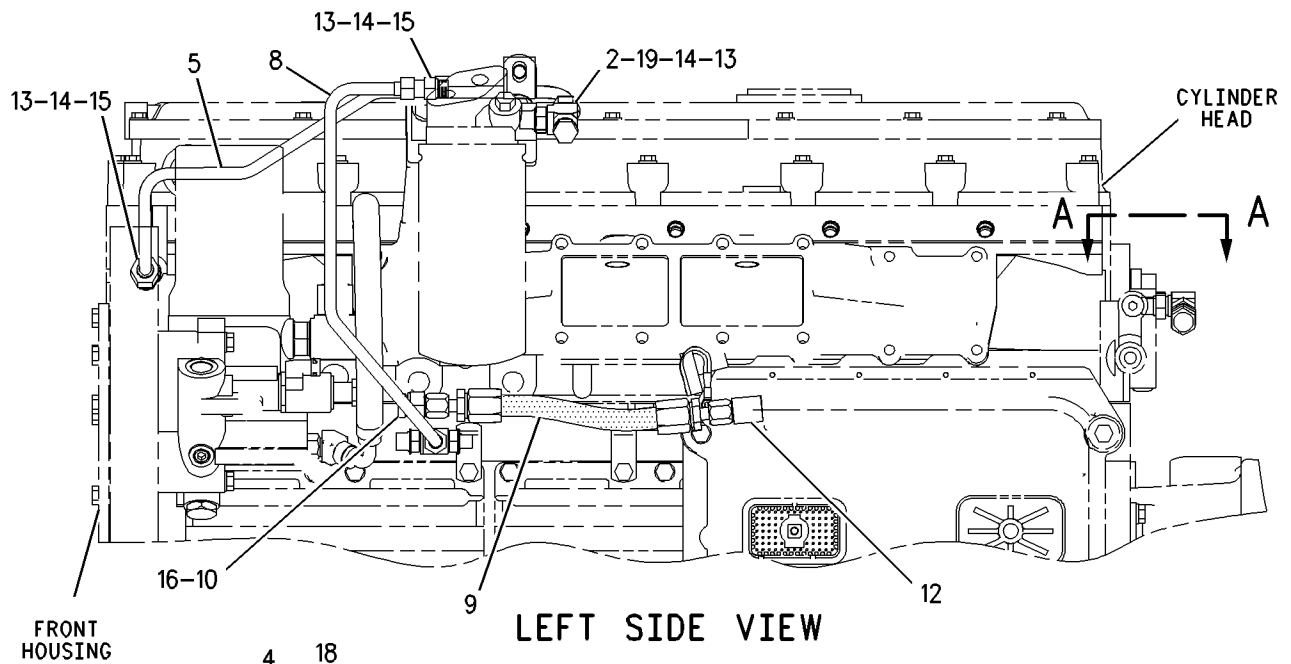
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-2332	1	ELBOW						
	2	1	7X-2459	2	TEE-O-RING						
	3	1	8S-4950	1	CAP (37 DEGREE FLARED)						
	4	1	068-9526	1	CAP-TUBE						
	5	1	146-5233	1	TUBE AS						
	6	1	196-6838	1	ELBOW AS						
	7	1	196-6840	1	REGULATOR AS						
	8	1	199-8365	1	TUBE AS						
I	9	1	201-7810	1	HOSE AS						
	10	1	030-8188	2	CONNECTOR-FLARED						
	11	1	5P-4116	1	WASHER-HARD (8.8X20.5X2MM THK)						
	12	1	6K-9194	1	ELBOW						
	13	1	6V-5049	9	SEAL-O-RING						
	14	1	6V-8397	4	SEAL-O-RING						
	15	1	6V-8636	2	CONNECTOR						
	16	1	8L-2786	1	SEAL-O-RING						
M	17	1	8T-4154	1	BOLT (M8X1.25X35MM)						
	18	1	9S-1350	1	CLIP						
	19	1	9S-4191	1	PLUG-STRAIGHT THREAD						
	20	1	9S-8004	1	PLUG						

I - SEE HOSE FABRICATION GUIDE
M - METRIC PART

FUEL SYSTEM

199-6306 LINES GP-FUEL (contd.)

i01575739



GRAPHIC #1

g00819683

FUEL SYSTEM

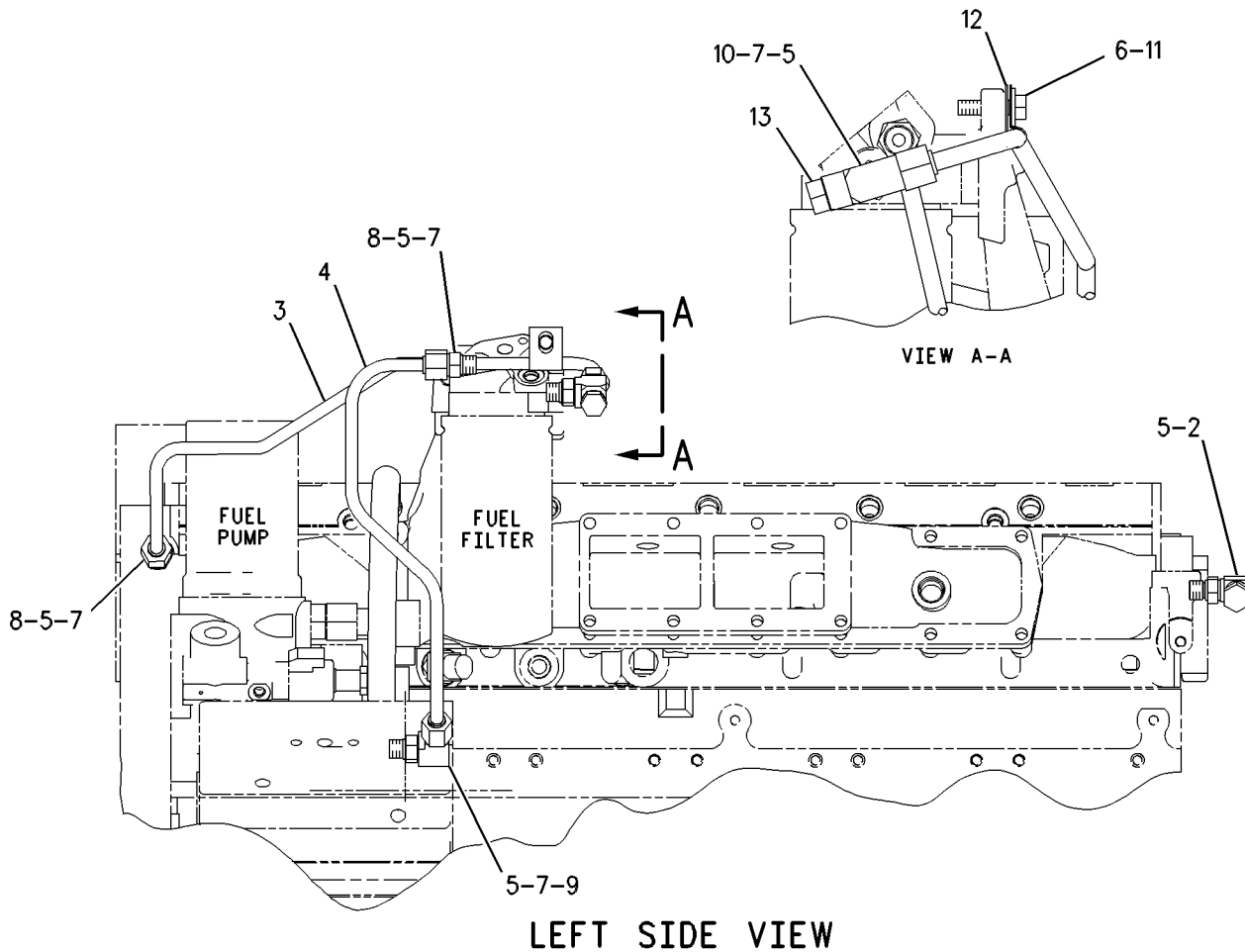
142-8335 LINES GP-FUEL FILTER FOR USE WITH ENGINES WITH NO. 6 PORT FUEL INLET AND RETURN AN ATTACHMENT

SMCS-1261, 1274

i01403690

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	142-0371	1	REGULATOR-PRESSURE (FUEL)						
	3	1	146-5233	1	TUBE AS						
	4	1	175-3237	1	TUBE AS						
	5	1	3J-1907	6	SEAL-O-RING (11.89MM ID)						
	6	1	5P-4116	1	WASHER-HARD (8.8X20.5X2MM THK)						
	7	1	6V-8397	4	SEAL-O-RING (9.27MM ID)						
	8	1	6V-8636	2	CONNECTOR						
	9	1	6V-8724	1	ELBOW						
	10	1	7X-2459	1	TEE-O-RING						
M	11	1	8T-4154	1	BOLT (M8X1.25X35MM)						
	12	1	9S-1350	1	CLIP						
	13	1	9S-4191	1	PLUG-O-RING						

M-METRIC PART



GRAPHIC #1

g00657923

MEMORANDA

FUEL SYSTEM

205-9434 LINES GP-FUEL FILTER

SMCS-1261, 1274

i01593494

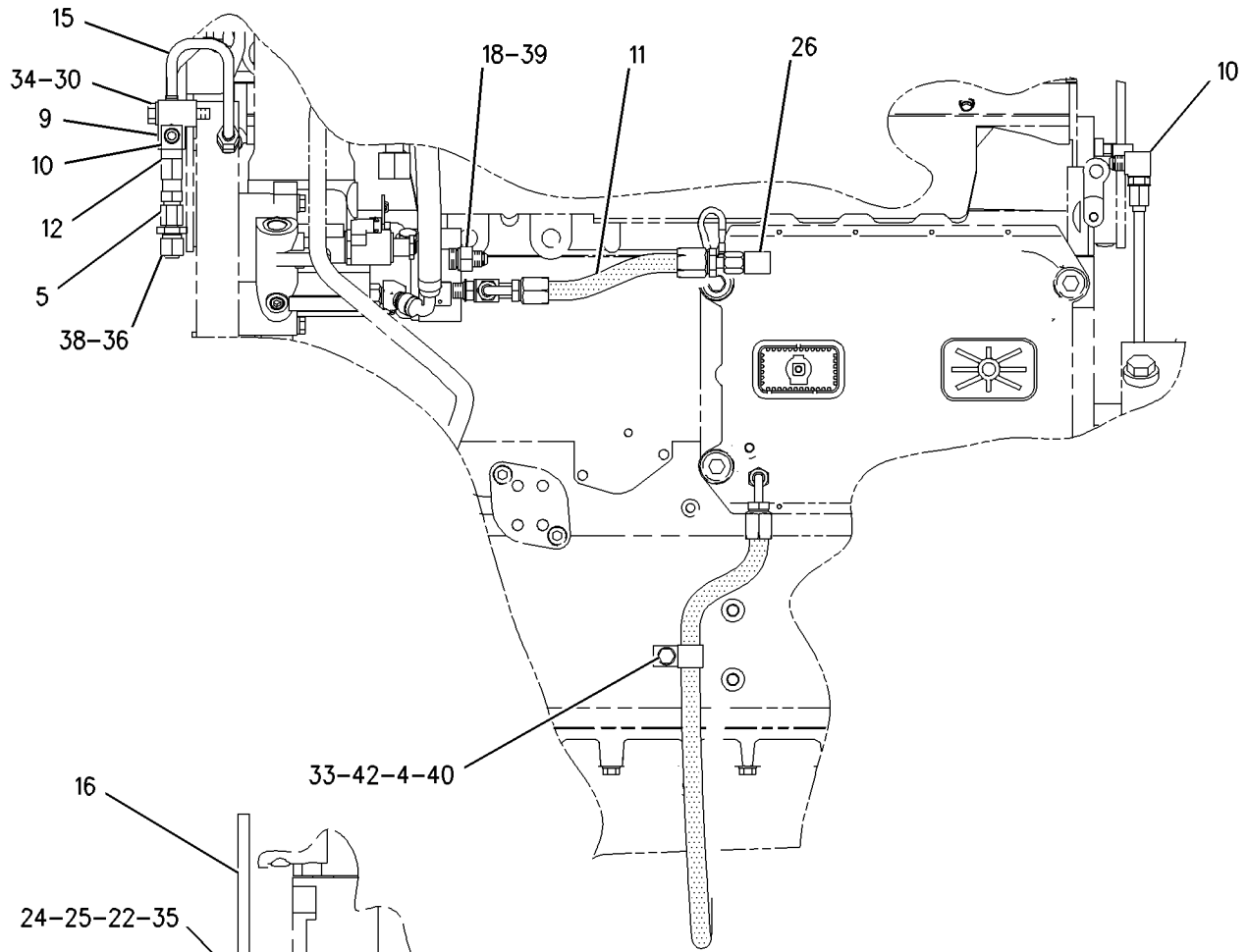
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	2	1R-0762	1	FILTER AS-FUEL						
I	2	2	4W-9576	1	HOSE AS						
	3	1	5P-4961	2	CLAMP-HOSE						
	4	1	8K-3970	1	SPACER (25.4MM THK)						
	5	1	112-2564	1	ADAPTER						
	6	1	174-7599	1	BASE AS-FUEL						
		1	9S-4167	1	STUD-HOLLOW						
	7	1	179-9348	1	VALVE-DRAIN						
	8	2	186-1667	1	CONNECTOR AS						
		2	2R-6806	1	CONNECTOR						
		2	6V-5049	1	SEAL-O-RING						
	9	1	186-6315	1	BLOCK-FUEL						
	10	1,2	191-7805	3	ELBOW AS						
I	11	1	194-3464	1	HOSE AS						
Y	12	1	198-1897	1	REGULATOR GP-FUEL PRESSURE						372
I	13	2	205-8206	1	HOSE AS						
Y	14	2	205-9430	1	PUMP GP-FUEL PRIMING						364
	15	1	205-9433	1	TUBE AS						
	16	1	208-3542	1	TUBE AS						
	17	1	208-5014	1	PLATE AS						
	18	1	030-8188	2	CONNECTOR-FLARED						
	19	1	030-8194	1	CONNECTOR-FLARED						
	20	2	141-8275	1	VALVE-DRAIN						
	21	2	168-3357	1	TEE						
	22	1	1K-3113	1	PIPE						
	23	2	2R-6806	1	CONNECTOR						
	24	1	5P-8245	1	WASHER-HARD (13.5X25.5X3MM THK)						
	25	1	5P-9297	1	CLIP						
	26	1	6K-9194	1	ELBOW						
	27	2	6V-0852	1	CAP-DUST						
M	28	1,2	6V-3822	6	BOLT (M10X1.5X35MM)						
	29	2	183-7264	1	VALVE-FLUID SAMPLING						
M	30	1	6V-4249	1	BOLT (M10X1.5X50 MM)						
	31	1	6V-4589	1	SEAL-O-RING						
	32	1,2	6V-5049	7	SEAL-O-RING						
M	33	1	6V-5219	1	BOLT (M8X1.25X40MM)						
	34	1,2	6V-5839	7	WASHER (11X21X2.5MM THK)						
M	35	1	6V-8004	1	BOLT (M12X1.75X120MM)						
	36	1	6V-9829	1	CAP AS						
M	37	1	7X-0818	2	BOLT (M8X1.25X45MM)						
	38	1	8L-2779	1	SEAL-O-RING						
	39	1	8L-2786	2	SEAL-O-RING						
	40	1	8M-2773	1	CLIP						
M	41	1	8T-0100	1	BOLT (M8X1.25X60MM)						
	42	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	43	1,2	9S-8004	2	PLUG						
E	44	2	5P-1442		HOSE (10CM)						
E	45	2	5P-1442		HOSE (5CM)						

E- ORDER BY THE CENTIMETER
 I- SEE HOSE FABRICATION GUIDE
 M- METRIC PART
 Y- SEPARATE ILLUSTRATION

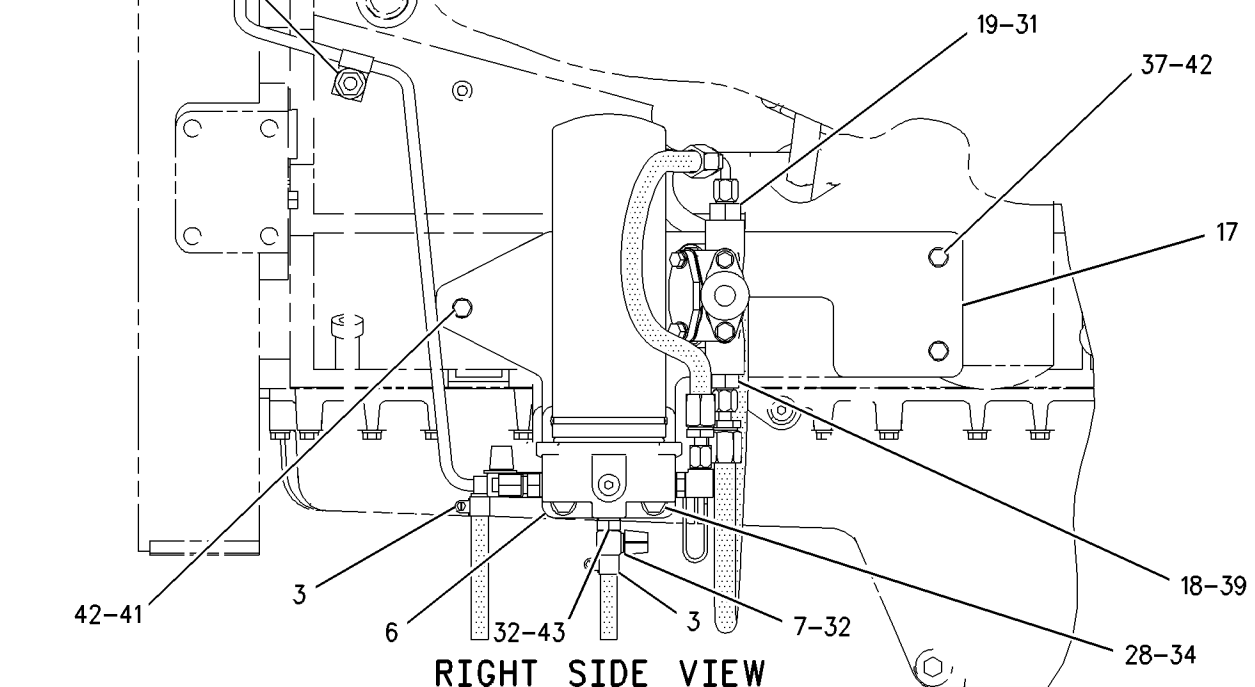
FUEL SYSTEM

205-9434 LINES GP-FUEL FILTER (contd.)

i01593494



LEFT SIDE VIEW



RIGHT SIDE VIEW

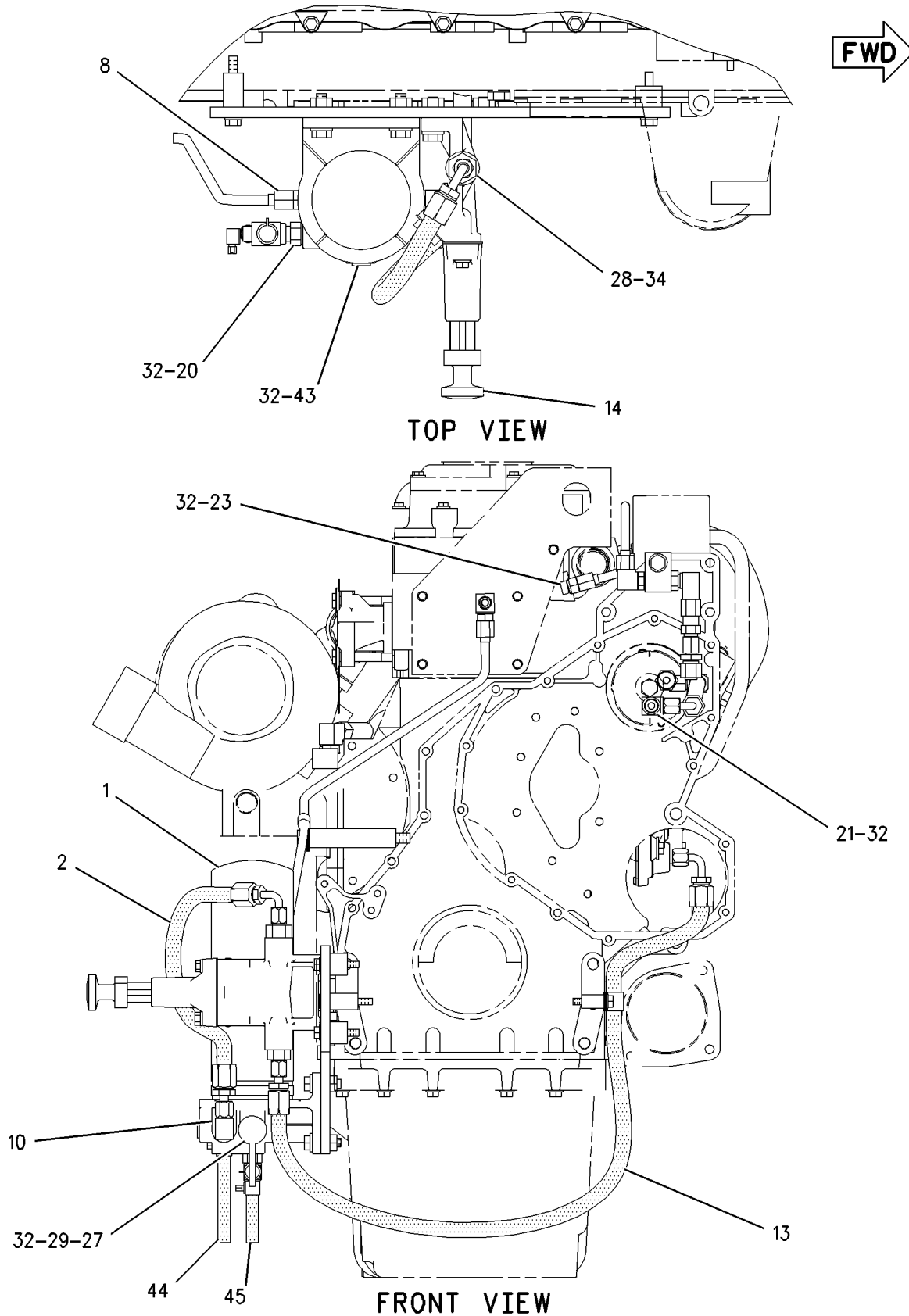
GRAPHIC #1

g00813594

FUEL SYSTEM

205-9434 LINES GP - FUEL FILTER (contd.)

i01593494



GRAPHIC #2

g00813595

FUEL SYSTEM

172-6291 PUMP GP-FUEL PRIMING

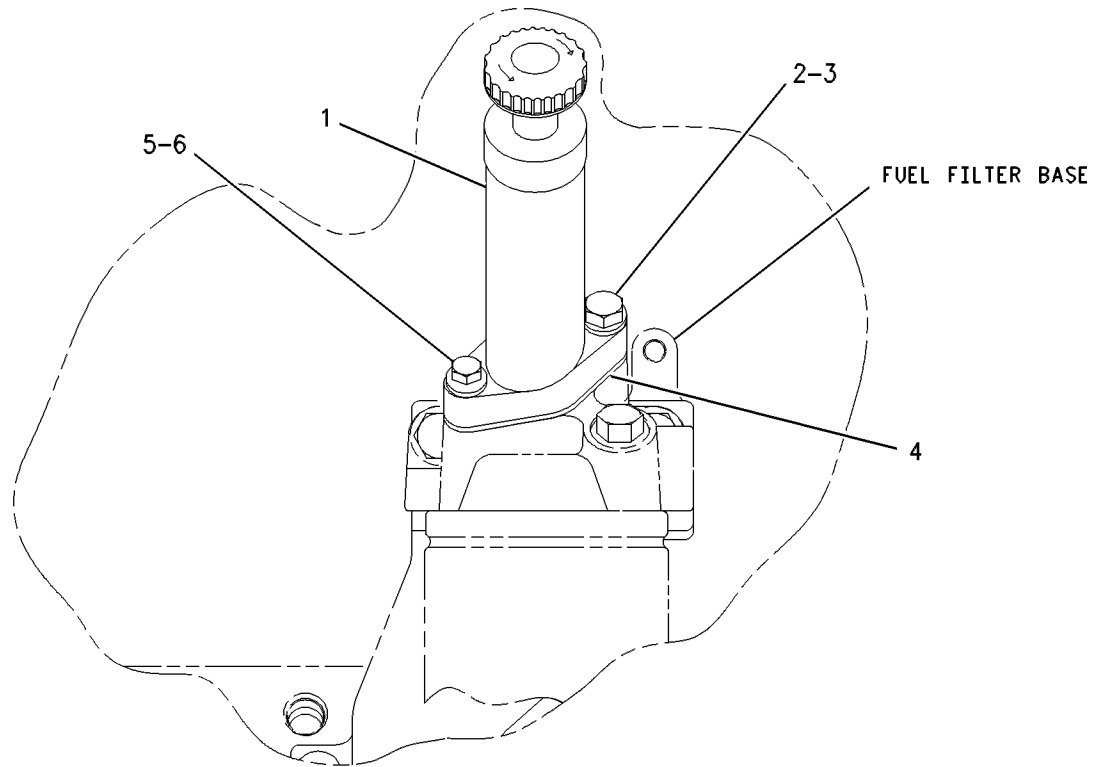
FOR USE WITH STANDARD MOUNT FUEL FILTER BASE; METRIC MOUNTED HARDWARE
AN ATTACHMENT

SMCS-1258

i01509762

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	137-5541	1	PUMP AS-FUEL PRIMING						
M	2	1	6V-5218	1	BOLT (M8X1.25X35MM)						
	3	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
	4	1	1P-0436	1	GASKET (FUEL PRIMING PUMP)						
	5	1	5P-0537	1	WASHER-HARD (7.2X14.5X2MM THK)						
M	6	1	8T-0640	1	BOLT (M6X1.0X30MM)						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

g00605004

FUEL SYSTEM

205-9430 PUMP GP-FUEL PRIMING

PART OF 205-9434 LINES GP-FUEL FILTER

SMCS-1258

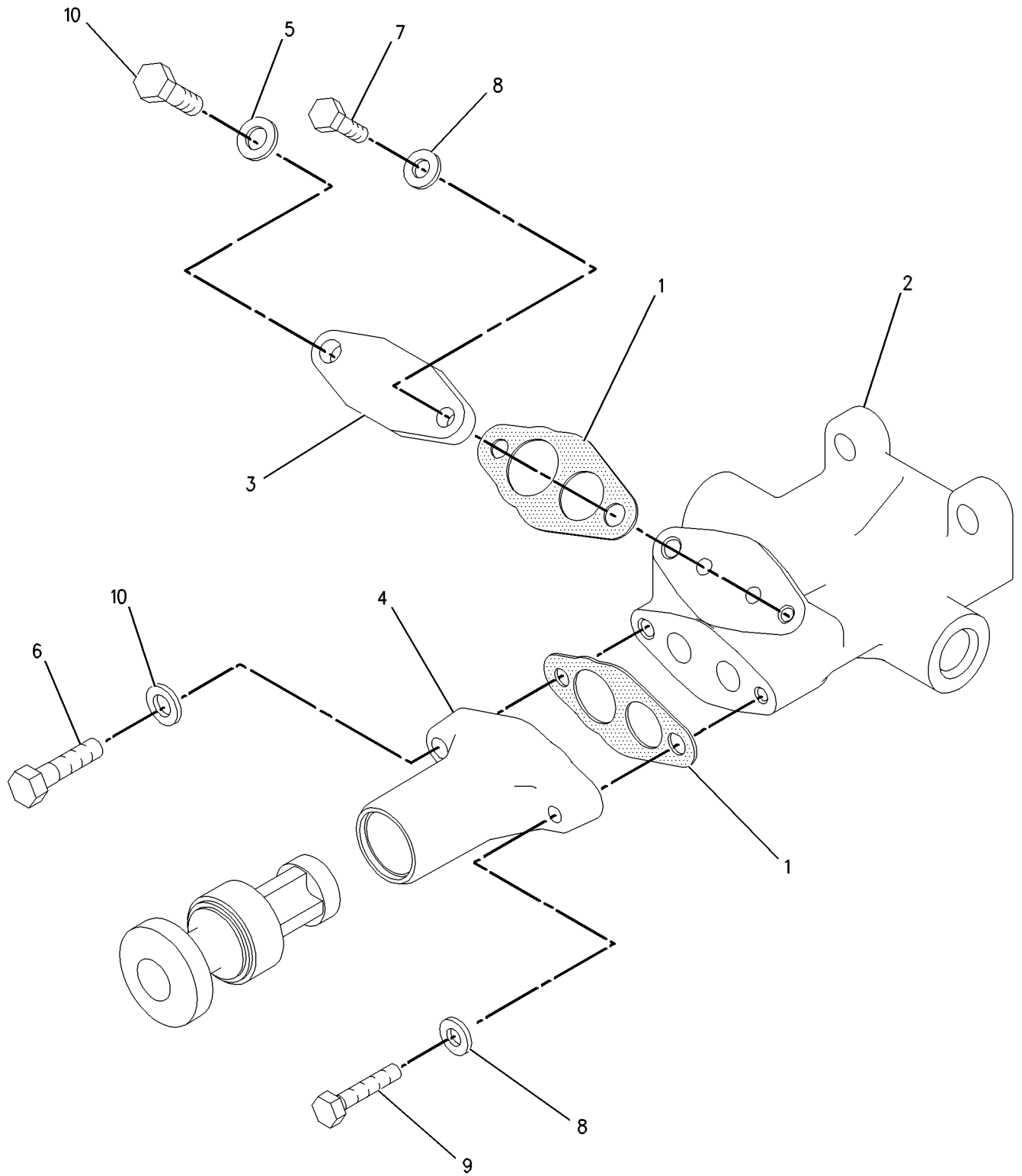
i01530446

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1P-0436	2	GASKET (FUEL PRIMING PUMP)						
	2	1	7W-8834	1	BASE-FUEL PRIMING PUMP						
	3	1	8N-3573	1	COVER						
	4	1	105-2508	1	PUMP AS-FUEL PRIMING						
		1	7E-5346	2	VALVE AS						
		1	7F-8607	1	SEAL-O-RING						
	5	1	0S-1618	1	BOLT (5/16-18X1 IN)						
	6	1	1B-7182	1	BOLT (5/16-18X1.25 IN)						
	7	1	4F-7957	1	BOLT (1/4-20X0.875 IN)						
	8	1	5P-0537	2	WASHER-HARD (7.2X14.5X2MM THK)						
	9	1	7B-2742	1	BOLT (1/4-20X1.25 IN)						
	10	1	9M-1974	2	WASHER-HARD (8.8X16X2MM THK)						

FUEL SYSTEM

205-9430 PUMP GP - FUEL PRIMING (contd.)

i01530446



GRAPHIC #1

g00793614

FUEL SYSTEM

178-0198 PUMP GP-UNIT INJECTION

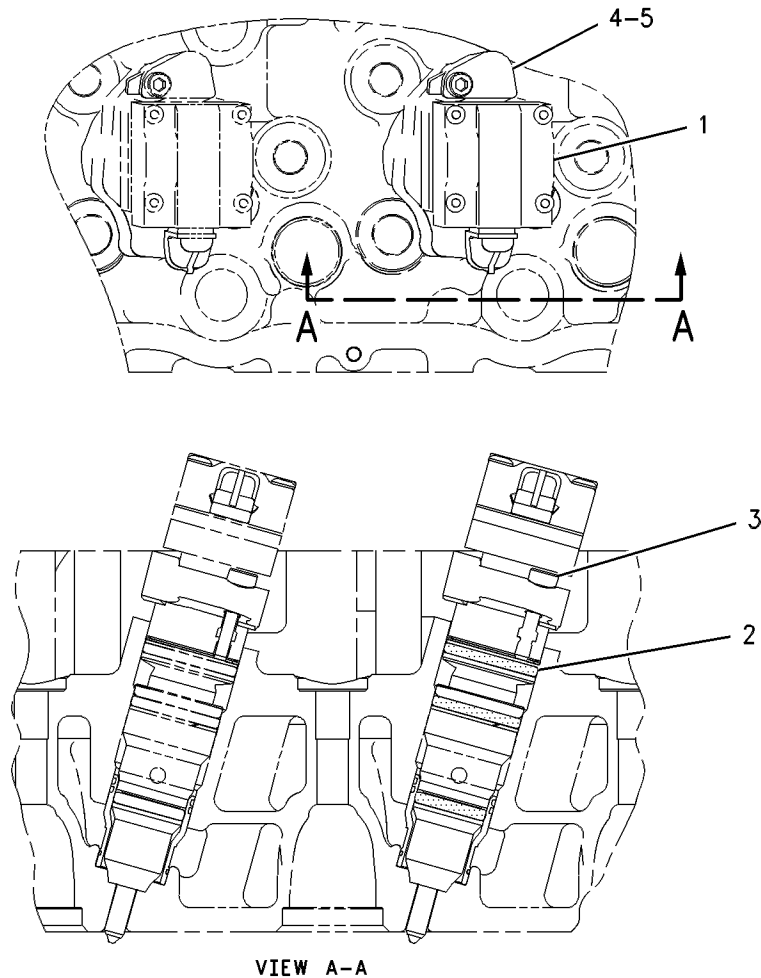
SMCS-1290

i01459797

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-4754	1	INJECTOR GP-FUEL						
Y	2	1	154-8016	1	SEAL GP-FUEL INJECTOR						373
	3	1	199-6103	1	BOLT-SHOULDER						
	4	1	159-0288	1	DEFLECTOR						
M	5	1	8T-2396	1	BOLT (M6X1.0X60MM)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00590793

MEMORANDA

FUEL SYSTEM

178-6343 PUMP GP-UNIT INJECTION

SMCS-1290

i01456442

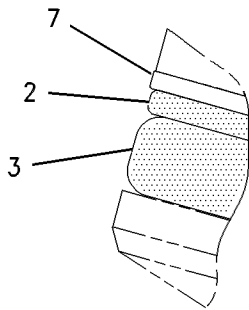
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-4752	1	INJECTOR GP-FUEL						
	2	1	150-4105	1	RING-BACKUP						
	3	1	9X-7557	1	SEAL-O-RING						
	4	1	148-2903	1	SEAL-O-RING						
	5	1	149-5240	1	RING-BACKUP						
	6	1	109-3207	1	SEAL-O-RING						
	7	1	133-3715	1	RING-BACKUP						
	8	1	199-6103	1	BOLT-SHOULDER						
	9	1	159-0288	1	DEFLECTOR						
M	10	1	8T-2396	1	BOLT (M6X1.0X60MM)						

M-METRIC PART

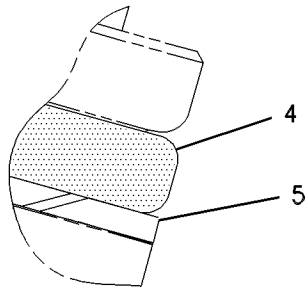
FUEL SYSTEM

178-6343 PUMP GP-UNIT INJECTION (contd.)

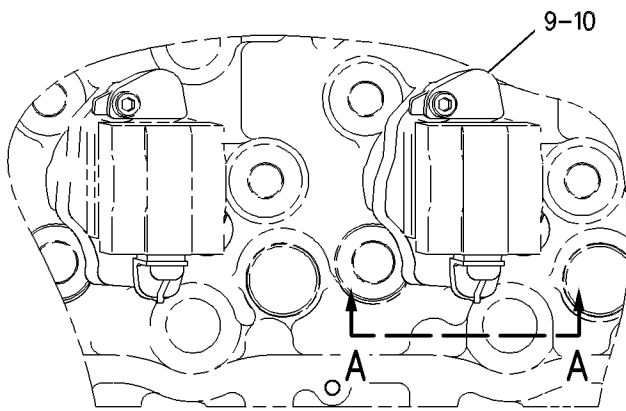
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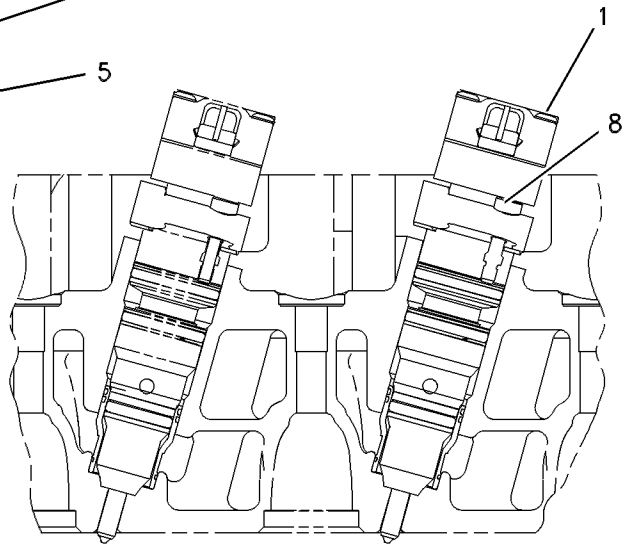
VIEW OF AREA B



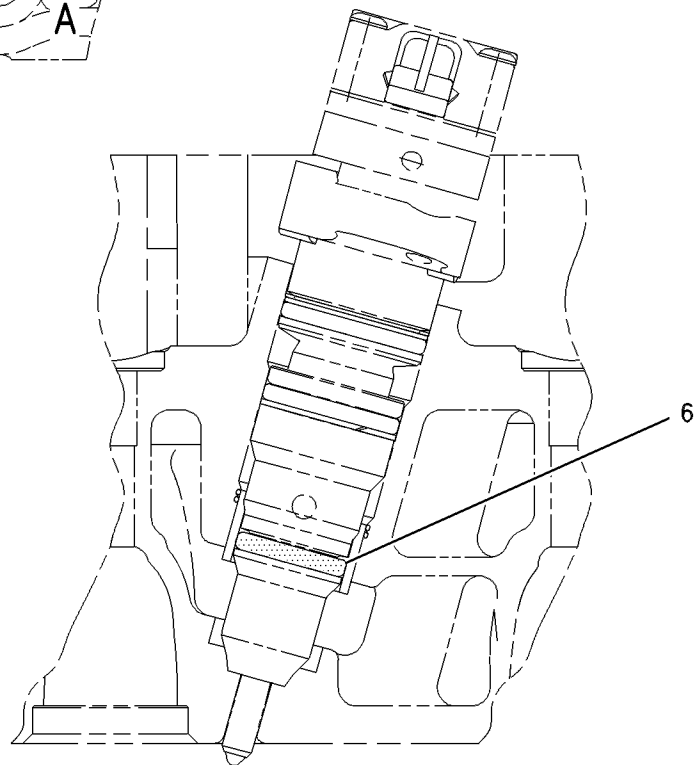
VIEW OF AREA C



TOP VIEW



VIEW A-A



RIGHT SIDE VIEW

GRAPHIC #1

g00660627

FUEL SYSTEM

162-9608 PUMP GP-UNIT INJECTOR HYD

PART OF 205-4194 PUMP GP-UNIT INJECTOR HYD

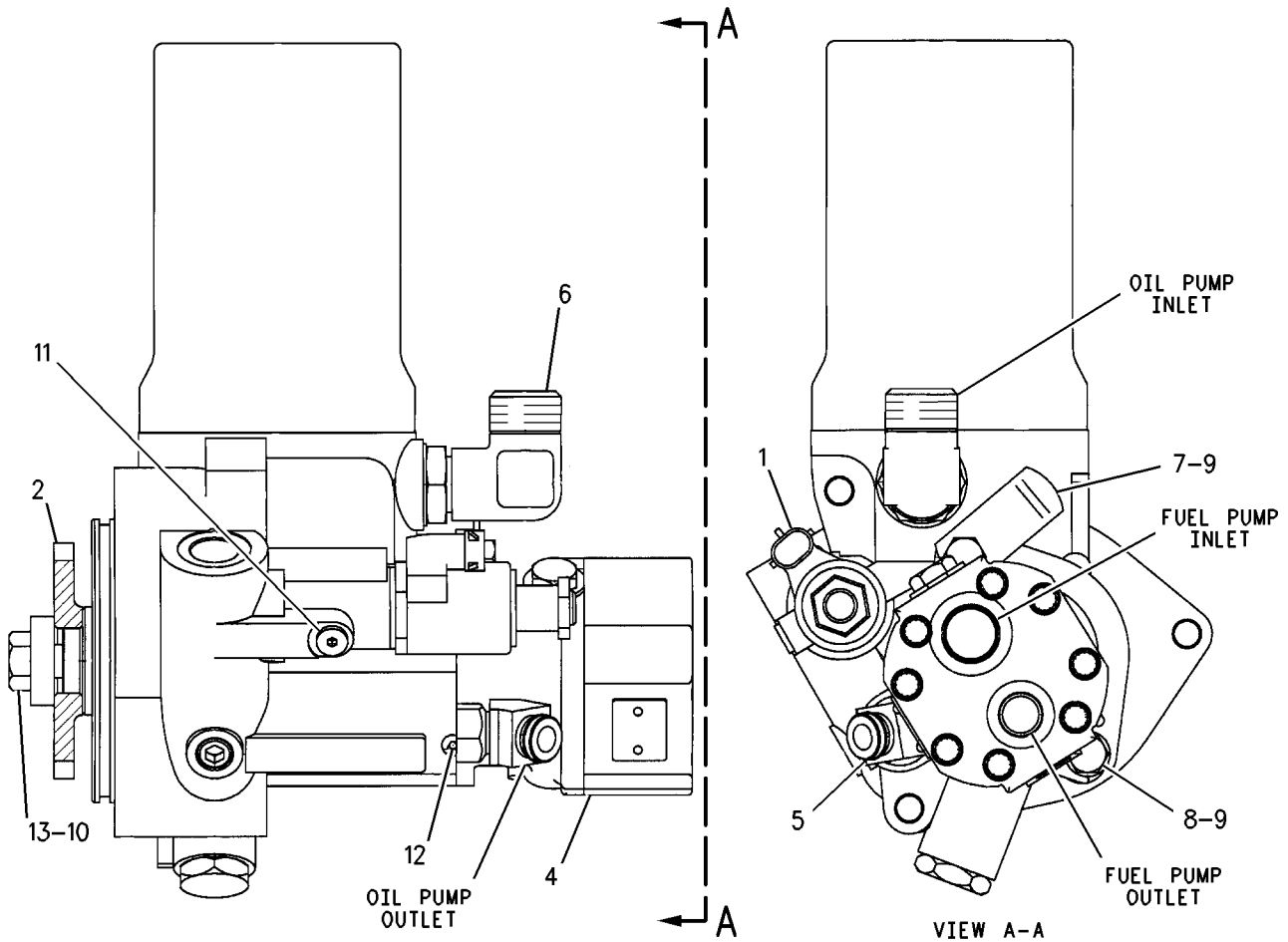
SMCS-1714

i01529081

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE	
					1	2	3	4	5	6 (PRODUCT LEVEL)		
Y	1	1	122-5053	1	VALVE GP-SOLENOID						515	
	2	1	128-3473	1	GEAR-PUMP DRIVE (36 TEETH)							
	4	1	162-9612	1	PUMP GP-FUEL							
	5	1	179-7004	1	ADAPTER AS							
			1	153-4906	1	SEAL-O-RING						
	6	1	6V-8626	1	ELBOW							
			1	152-2939	1	SEAL-O-RING						
	7	1	4P-5918	1	CLIP							
	8	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)							
	M	9	1	8T-7547	2	BOLT (M8X1.25X30MM)						
		10	1	118-0275	1	WASHER						
		11	1	131-1845	1	PLUG-HEX SOCKET						
		12	1	144-7339	1	SEAL-O-RING						
M	13	1	8T-4139	1	BOLT (M12X1.75X30MM)							

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00794924

FUEL SYSTEM

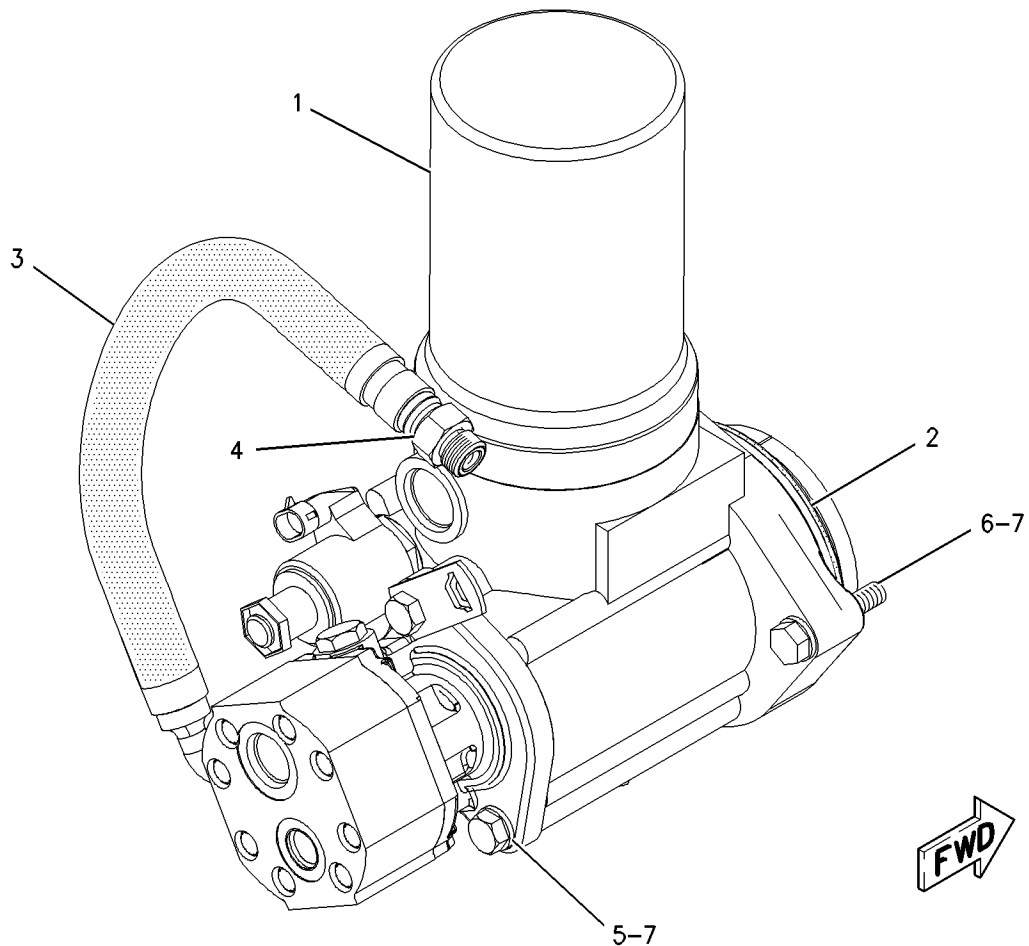
205-4194 PUMP GP-UNIT INJECTOR HYD

SMCS-1714

i01528392

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	162-9608	1	PUMP GP-UNIT INJECTOR HYD						370
	2	1	185-3241	1	SEAL-O-RING						
	3	1	175-3236	1	HOSE AS						
	4	1	179-7002	1	ADAPTER AS						
		1	153-4906	1	SEAL-O-RING						
M	5	1	6V-5219	1	BOLT (M8X1.25X40MM)						
M	6	1	6V-9804	2	BOLT (M8X75MM)						
	7	1	9M-1974	3	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00715358

FUEL SYSTEM

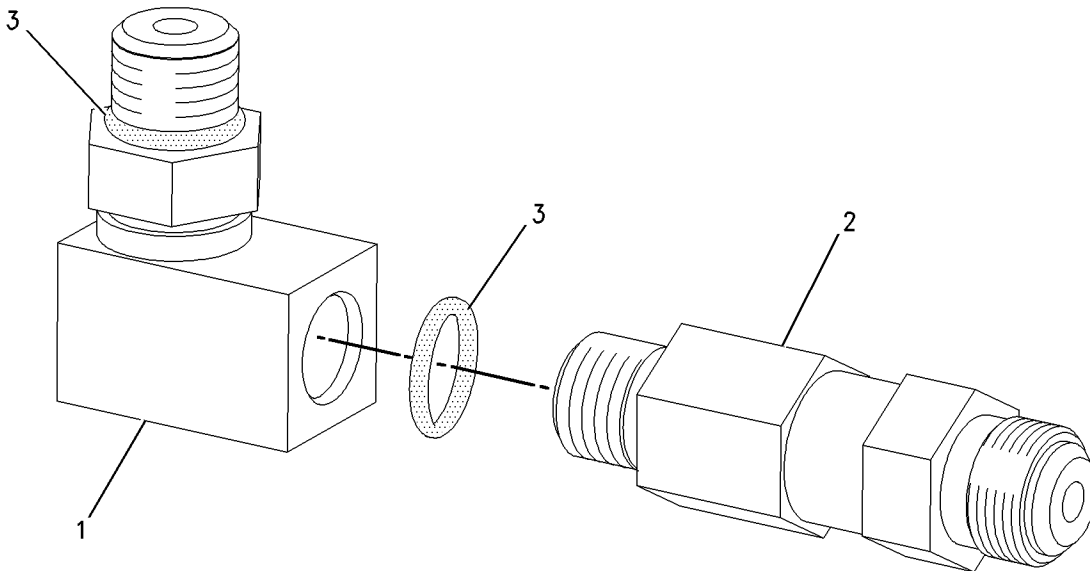
198 - 1897 REGULATOR GP - FUEL PRESSURE

PART OF 205-9434 LINES GP-FUEL FILTER

SMCS-1270

i01447707

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-6838	1	ELBOW AS						
	2	1	196-6840	1	REGULATOR AS						
	3	1	6V-5049	2	SEAL-O-RING (11.89MM ID)						



GRAPHIC #1

g00745764

FUEL SYSTEM

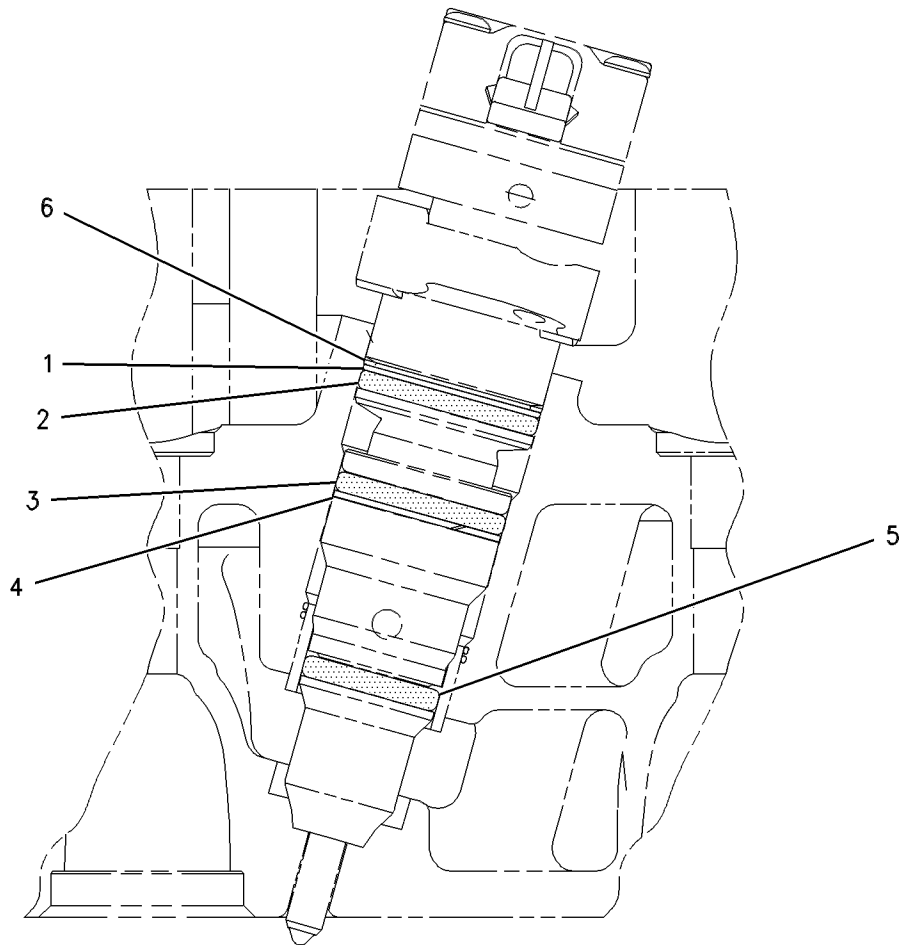
154-8016 SEAL GP-FUEL INJECTOR

PART OF 178-0198 PUMP GP-UNIT INJECTION

SMCS-1290

i01122270

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	150-4105	1	RING-BACKUP						
	2	1	9X-7557	1	SEAL-O-RING (32.92MM ID)						
	3	1	148-2903	1	SEAL-O-RING (31.34MM ID)						
	4	1	149-5240	1	RING-BACKUP						
	5	1	109-3207	1	SEAL-O-RING (23.39MM ID)						
	6	1	133-3715	1	RING-BACKUP						



GRAPHIC #1

g00433901

ELECTRICAL AND STARTING SYSTEM

3E-7577 ALTERNATOR GP-CHARGING*R

24 VOLT, 75 AMPERE

AN ATTACHMENT

SMCS-1405

i01444395

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	9S-2011	1	SCREW-MACHINE (1/4-20 X .500 IN)	
	2	1	1H-3244	1	LOCKWASHER	
	3	1	2K-4821	1	LOCKNUT	
	4	1	7F-7621	1	WASHER (0.635X1.25X0.09 IN THK)	
	5	1	9S-2260	1	PLATE-COVER	
	6	1	9S-2255	1	COVER	
	7	1	9S-2262	1	GASKET	
	8	1	9S-2544	6	SCREW-HEX HEAD (8-32 X 11.13MM)	
	9	1	9B-7233	10	LOCKWASHER	
	10	1	9S-2437	5	SCREW-TAPPING (10-24 X 19.05MM)	
	11	1	8F-1434	5	LOCKWASHER	
	12	1	5P-3418	1	BEARING-ROLLER	
	13	1	5P-3419	1	RACE-BEARING INNER	
	14	1	9S-2396	1	BUSHING-TERMINAL	
	15	1	9S-2393	3	DIODE-NEGATIVE	
	16	1	9N-0943	1	PLUG-BEARING WELL	
	17	1	9F-2247	1	PLUG-PIPE	
J	18	1	9S-2292	1	HEAT SINK AS	
	19	1	100-6656	1	DIODE AS-ALTERNATOR	
	20	1	9S-9830	4	SCREW-FORMING (#8-32 X 19.05MM)	
	21	1	8C-9660	4	WASHER (4.6X7.9X.8MM THK)	
	22	1	9S-2300	4	INSULATOR	
	23	1	9S-2301	1	INSULATION	
	24	1	9S-2248	1	COIL & SUPPORT AS	
	25	1	9N-3388	3	LOCKSCREW	
	26	1	3T-6354	1	REGULATOR AS (24 VOLT)	
	27	1	7N-9023	1	SCREW AS (8-32 X 26.9MM)	
	28	1	6N-1872	2	SCREW AS (8-32 X 1.25 IN)	
	29	1	4B-2043	4	NUT (8-32 THD)	
	30	1	100-6657	1	PLATE-ALTERNATOR	
	31	1	9S-2302	1	ROTOR AS	
	32	1	9S-2005	1	GROMMET	
	33	1	2L-8075	3	TERMINAL (14-16 GA)	
	34	1	100-6658	1	WIRE AS-ALTERNATOR	
	35	1	9S-2389	1	STUD AS	
	36	1	9L-6770	1	CAP	
	37	1	2P-5616	1	FRAME-DRIVE END	
	38	1	9S-2390	1	RETAINER	
	39	1	9X-2500	4	SCREW-HEX FLANGE (10-24 X 38.1MM)	
	40	1	9S-2009	4	SCREW-HEAD (10-24 X 3.625 IN)	
	41	1	100-6532	1	COLLAR-ALTERNATOR	
	42	1	5P-7807	1	BALL BEARING	
	43	1	100-6531	1	FAN-ALTERNATOR	
	44	1	9S-3451	1	STATOR AS	
	45	1	9S-2006	1	INSULATOR	
	46	1	9S-2005	1	GROMMET	
	47	1	9S-2014	3	CLIP	
					AVAILABLE REPAIR KIT(S) :	
			9S-2013	1	KIT-RELAY TERMINAL (INCLUDES BUSHING, O-RING & HARDWARE)	
			9S-2012	1	KIT-OUTPUT TERMINAL (INCLUDES GASKETS, TERMINALS, & HARDWARE)	
J			9S-2290	3	KIT-DIODE JUNCTION STUD (EACH INCLUDES INSULATOR & STUD)	
J			9S-2291	3	KIT-POSITIVE DIODE (EACH INCLUDES DIODE)	

ELECTRICAL AND STARTING SYSTEM

3E-7577 ALTERNATOR GP - CHARGING (contd.)

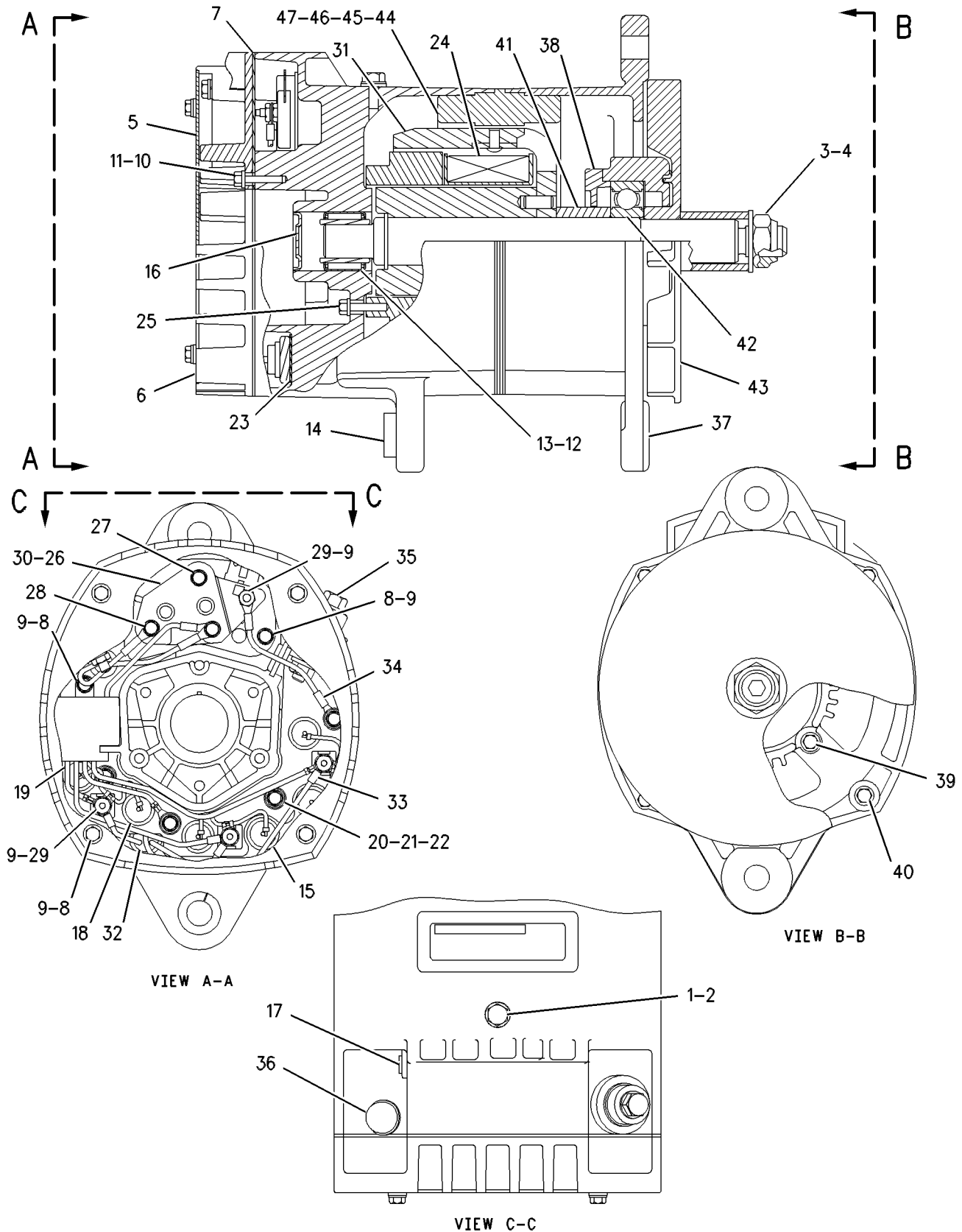
i01444395

J - PART MARKED J INCLUDES KIT(S) MARKED J

ELECTRICAL AND STARTING SYSTEM

3E-7577 ALTERNATOR GP - CHARGING (contd.)

i01444395



GRAPHIC #1

g00545711

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

4N-3986 ALTERNATOR GP-CHARGING*R

24 VOLT, 60 AMPERE
AN ATTACHMENT

SMCS-1405

i00778243

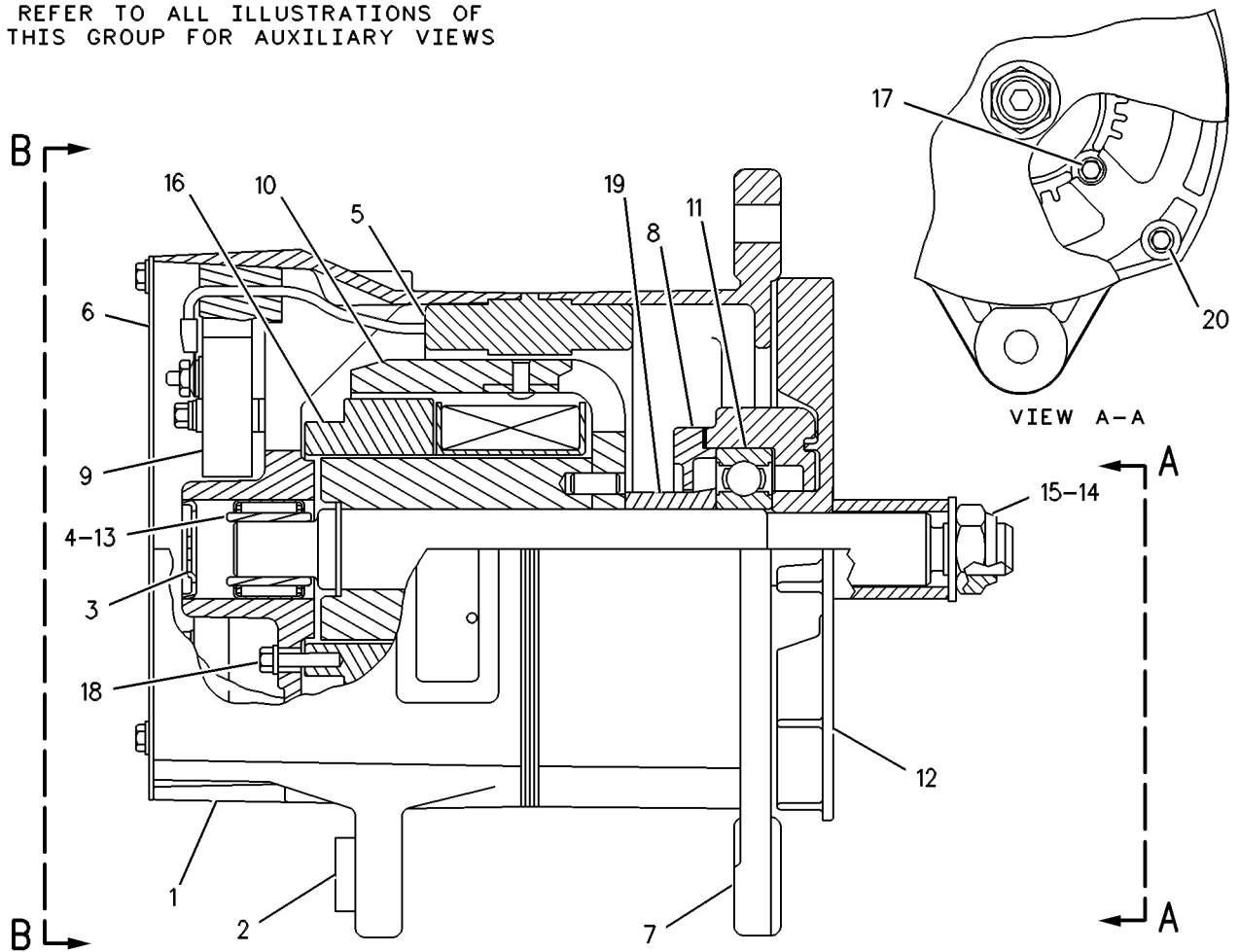
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	6N-1876	1	HOUSING AS						
2		1	9S-2396	1	BUSHING-TERMINAL						
3		1	9N-0943	1	PLUG-BEARING WELL						
4		1	5P-3418	1	BEARING-ROLLER						
5		1	6N-1968	1	STATOR AS						
		1	9S-2014	3	CLIP						
		1	9N-0939	1	GROMMET						
6		1	9N-0942	1	PLATE-COVER						
7		1	2P-5616	1	FRAME-DRIVE END						
8		1	9S-2390	1	RETAINER						
9		1	9N-0937	1	RECTIFIER AS						
10		1	9S-2302	1	ROTOR AS						
11		1	5P-7807	1	BALL BEARING						
12		1	100-6531	1	FAN-ALTERNATOR						
13		1	5P-3419	1	RACE-BEARING INNER						
14		1	7F-7621	1	WASHER						
15		1	2K-4821	1	LOCKNUT (5/8-18 THD)						
16		1	6N-1945	1	COIL AS-FIELD						
17		1	9X-2500	4	SCREW-HEX FLANGE						
18		1	9N-3388	5	LOCKSCREW						
19		1	100-6532	1	COLLAR-ALTERNATOR						
20		1	9S-2009	4	SCREW-HEAD						
21		2	6N-1944	1	DIODE AS						
22		2	6N-1870	2	SCREW AS						
		2	8M-6701	3	WASHER (12.7MM)						
		2	6N-1856	4	BUSHING-TERMINAL						
23		2	8T-0328	2	WASHER-HARD (1MM THK)						
24		2	9S-2544	7	SCREW-HEX HEAD						
25		2	9B-7233	11	LOCKWASHER (NO.8)						
26		2	4B-2043	4	NUT (8-32 THD)						
27		2	6V-8187	2	NUT (1/4-28 THD)						
28		2	1H-3244	2	LOCKWASHER (NO.14)						
29		2	6N-1925	1	BRACKET						
30		2	6N-1946	1	CAPACITOR AS						
31		2	6N-1872	3	SCREW AS						
32		2	3T-6354	1	REGULATOR AS						
33		2	6N-1873	1	LEAD AS						
34		2	2L-8075	3	TERMINAL (HORN)						
35		2	8T-4205	2	WASHER-HARD (2MM THK)						
36		2	6N-1871	1	LEAD AS						
					AVAILABLE REPAIR KIT(S) :						
			6N-1875	1	KIT-TERMINAL (INCLUDES TERMINAL, LOAD, BUSHING, WASHERS, NUTS AND LOCKWASHERS)						
			105-3762	1	KIT-ALTERNATOR TERMINAL (INCLUDES TERMINAL, INSULATOR, BUSHING, WASHER, NUTS AND LOCKWASHERS)						

ELECTRICAL AND STARTING SYSTEM

4N-3986 ALTERNATOR GP - CHARGING (contd.)

i00778243

REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS



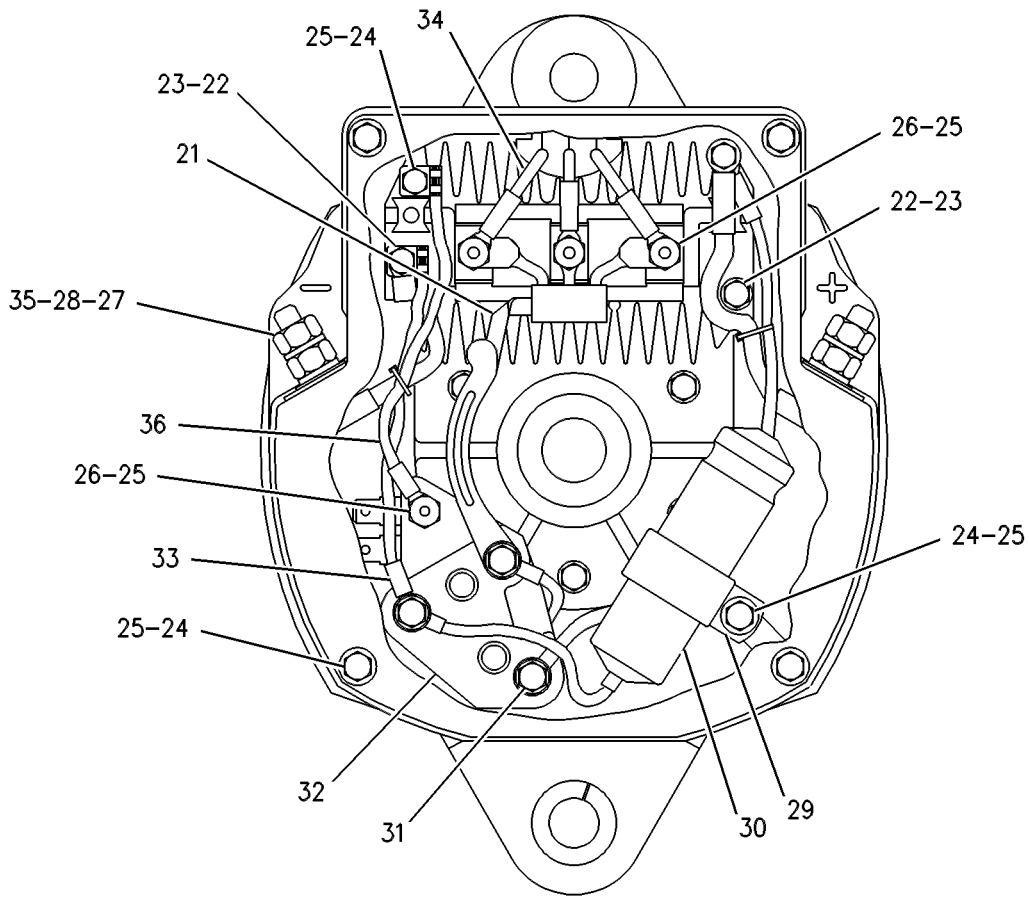
GRAPHIC #1

g00358207

ELECTRICAL AND STARTING SYSTEM

4N-3986 ALTERNATOR GP - CHARGING (contd.)

i00778243



VIEW B-B

GRAPHIC #2

g00358144

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

5N-5692 ALTERNATOR GP-CHARGING

24 VOLT, 45 AMPERE
AN ATTACHMENT

SMCS-1405

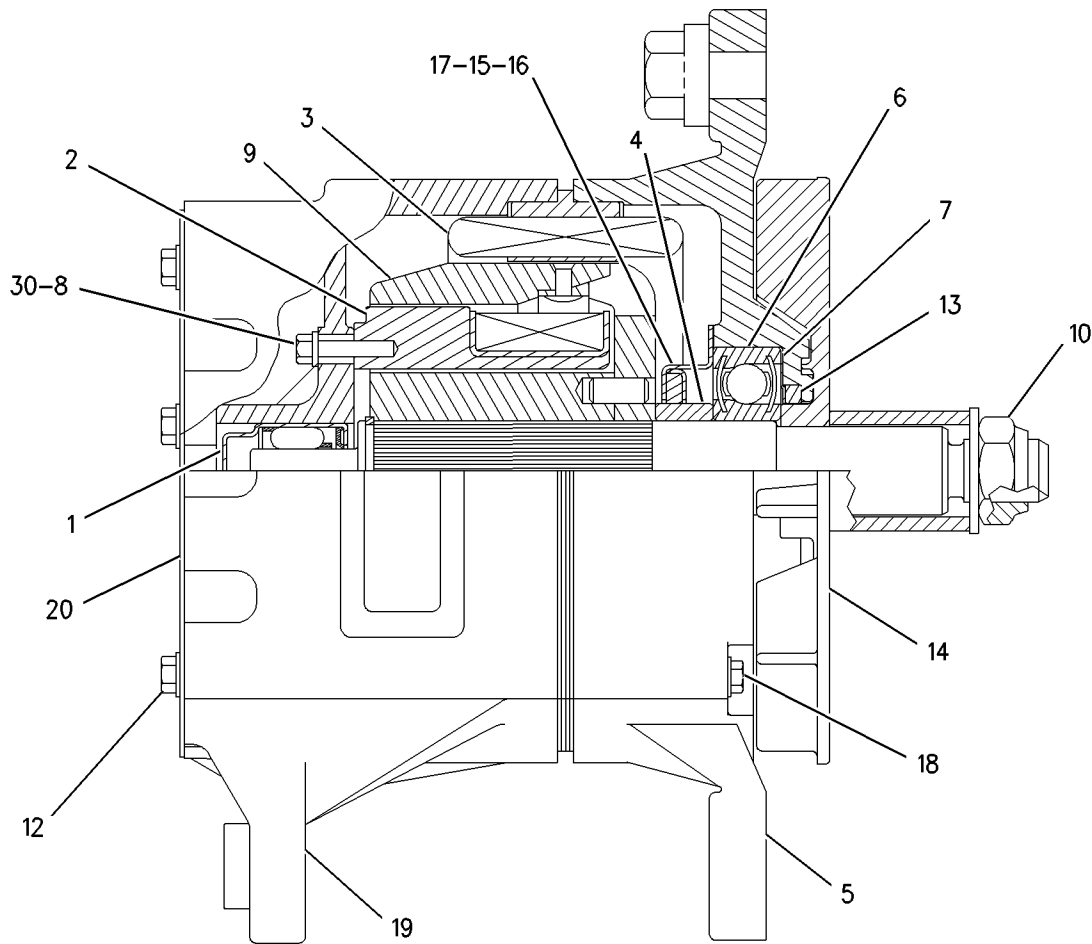
i01562435

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
1		1	5P-6920	1	BEARING-ROLLER	
2		1	7N-7806	1	COIL AS-FIELD	
3		1	9G-5578	1	STATOR AS	
4		1	7N-7795	1	COLLAR	
5		1	7N-7810	1	FRAME AS-DRIVE END	
6		1	6V-2202	1	BALL BEARING	
7		1	9L-2140	1	PLATE	
8		1	7X-3353	4	SCREW-HEX HEAD (10 X 24 X 19.05MM)	
9		1	7N-7800	1	ROTOR AS	
10		1	187-2034	1	NUT-FLANGE (5/8-18 THD)	
12		1,2	030-9612	5	SCREW-FORMING (10-24X.5 IN)	
13		1	9L-2139	1	WASHER-FELT	
14		1	3E-5454	1	FAN-ALTERNATOR	
15		1	9S-2437	3	SCREW-TAPPING (10-24X19.05MM)	
16		1	9L-2137	1	RETAINER AS	
17		1,2	8F-1434	4	LOCKWASHER	
18		1	7N-9024	4	BOLT (M10X24X63.5MM)	
19		1	7N-7805	1	HOUSING	
20		1	7N-7809	1	PLATE	
21		2	8T-4205	1	WASHER-HARD (7.2X14.5X2MM THK)	
22		2	9B-7233	6	LOCKWASHER	
23		2	9L-6770	1	CAP	
25		2	6N-1872	2	SCREW AS (8-32 X 1.25 IN)	
26		2	7N-9023	2	SCREW AS (8-32 X 26.9MM)	
27		2	3T-6354	1	REGULATOR AS (24 VOLT)	
28		2	6V-8377	4	NUT (8-32 THD)	
29		2	7N-7811	1	CONNECTOR	
30		2	8T-0328	4	WASHER-HARD (5.5X10X1MM THK)	
31		2	9N-1202	1	DIODE AS	
33		2	7N-9021	1	SCREW AS	
		2	7N-7796	1	BUSHING-TERMINAL	
34		2	7N-7802	1	CAPACITOR AS	
35		2	7N-7798	1	CONNECTOR	
36		2	7N-7801	1	CONNECTOR	
37		2	9S-2544	2	SCREW-HEX HEAD (8-32X11.13MM)	
38		2	1H-3244	1	LOCKWASHER	
39		2	6V-8187	1	NUT (1/4-28 THD)	
40		2	206-4202	1	RECTIFIER AS	
					AVAILABLE REPAIR KIT(S) :	
			7N-7807	1	KIT-TERMINAL (INCLUDES INSULATOR, SCREWS, WASHERS, LOCKWASHERS, NUTS & ADAPTERS)	
			7N-7808	1	KIT-TERMINAL (RELAY) (INCLUDES STUDS, BUSHINGS, WASHERS & NUT AS)	

ELECTRICAL AND STARTING SYSTEM

5N-5692 ALTERNATOR GP - CHARGING (contd.)

i01562435



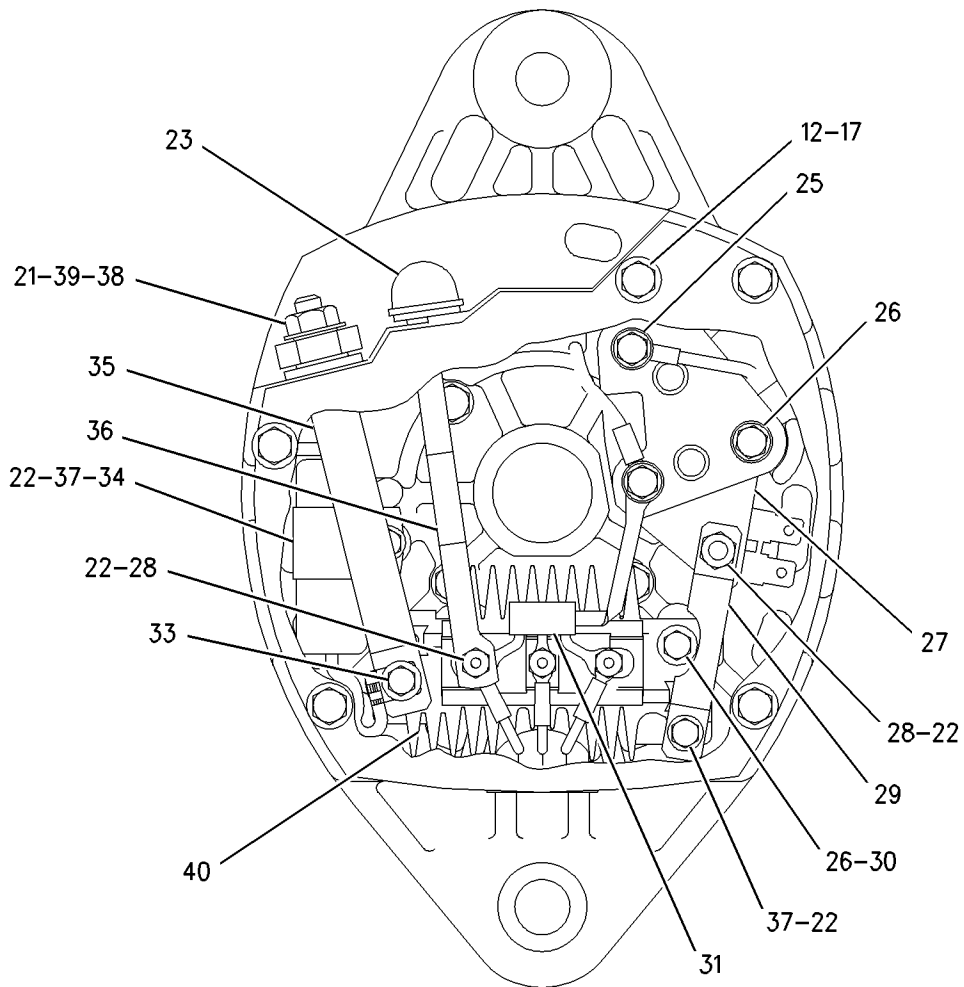
GRAPHIC #1

g00797422

ELECTRICAL AND STARTING SYSTEM

5N-5692 ALTERNATOR GP - CHARGING (contd.)

i01562435



GRAPHIC #2

g00811550

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

7G-7889 ALTERNATOR GP-CHARGING

12 VOLT, 60 AMPERE
AN ATTACHMENT

SMCS-1405

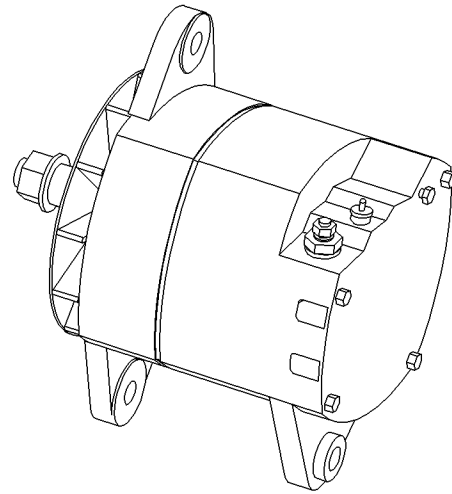
i01550670

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-6920	1	BEARING-ROLLER						
	2	1	9G-5233	1	COIL AS-FIELD						
	3	1	9G-5234	1	STATOR AS						
	4	1	7N-7795	1	COLLAR						
	5	1	7N-7810	1	FRAME AS-DRIVE END						
	6	1	6V-2202	1	BALL BEARING						
	7	1	9L-2140	1	PLATE						
	8	1	8F-1434	3	LOCKWASHER						
	9	1	7N-7800	1	ROTOR AS						
	10	1	187-2034	1	NUT-FLANGE (5/8-18 THD)						
	11	2	8T-4205	2	WASHER-HARD (7.2X14.5X2MM THK)						
	12	1	7N-9024	4	BOLT (M10X24X63.5MM)						
	13	1	9L-2139	1	WASHER-FELT						
	14	1	3E-5454	1	FAN-ALTERNATOR						
	15	1	9S-2437	3	SCREW-TAPPING (10-24X19.05MM)						
	16	1	9L-2137	1	RETAINER AS						
	17	2	206-4202	1	RECTIFIER AS						
	18	1	7N-7805	1	HOUSING						
	19	1	7X-3353	4	SCREW-HEX HEAD (10 X 24 X 19.05MM)						
	20	1	7N-7809	1	PLATE						
	21	2	9G-5232	1	KIT-TERMINAL (OUTPUT) (INCLUDES INSULATOR, SCREW, WASHERS, LOCKWASHER & NUT)						
	22	2	7N-7808	1	KIT-TERMINAL (RELAY) (INCLUDES STUD, BUSHINGS, WASHERS & NUT AS)						
	23	2	9L-6770	1	CAP						
	24	1,2	030-9612	5	SCREW-FORMING (10-24X.5 IN)						
	25	2	6N-1872	2	SCREW AS (8-32 X 1.25 IN)						
	26	2	7N-9023	2	SCREW AS (8-32 X 26.9MM)						
	27	2	3E-5451	1	REGULATOR AS						
	28	2	6V-8377	4	NUT (8-32 THD)						
	29	2	7N-7811	1	CONNECTOR						
	30	2	9S-2544	2	SCREW-HEX HEAD (8-32X11.13MM)						
	31	2	112-9119	1	DIODE AS-ALTERNATOR						
	32	1,2	8T-0328	6	WASHER-HARD (5.5X10X1MM THK)						
	33	2	7N-9021	1	SCREW AS						
		2	7N-7796	1	BUSHING-TERMINAL						
	34	2	7N-7802	1	CAPACITOR AS						
	35	2	7N-7798	1	CONNECTOR						
	36	2	7N-7801	1	CONNECTOR						
	37	2	9B-7233	6	LOCKWASHER						
	38	2	8F-1434	1	LOCKWASHER						
	39	2	1H-3244	1	LOCKWASHER						
	40	2	6V-8187	1	NUT (1/4-28 THD)						

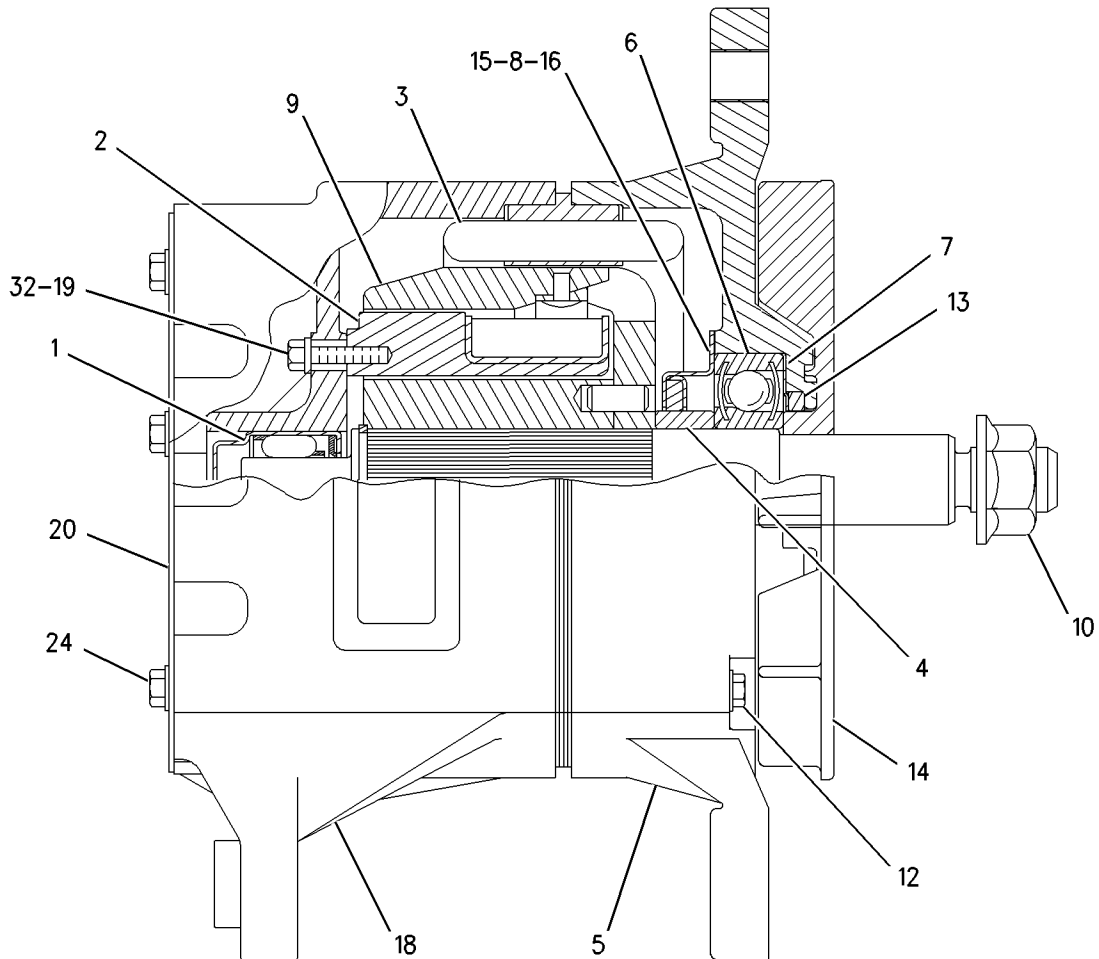
ELECTRICAL AND STARTING SYSTEM

7G-7889 ALTERNATOR GP - CHARGING (contd.)

i01550670



ISOMETRIC VIEW



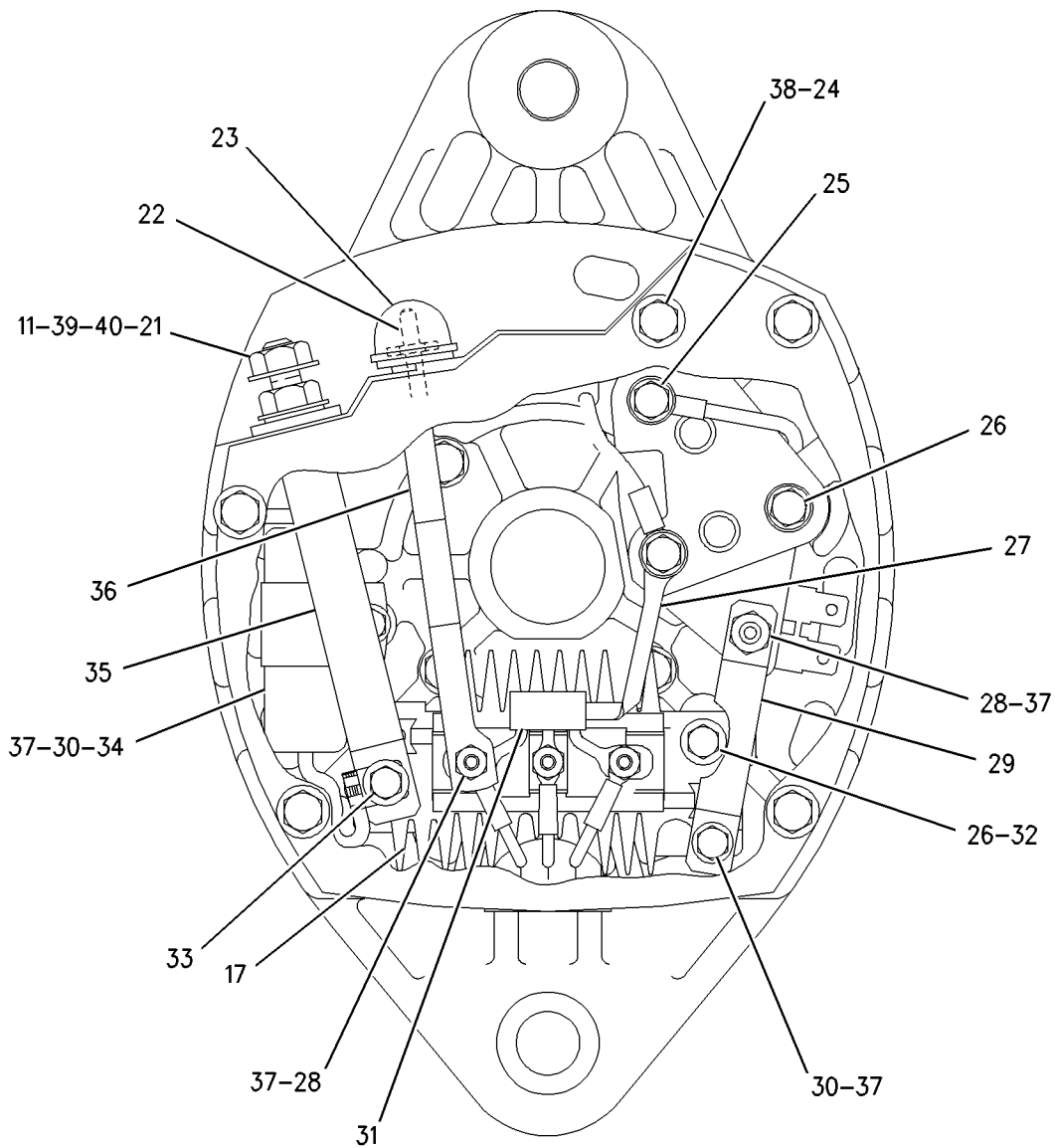
GRAPHIC #1

g00806410

ELECTRICAL AND STARTING SYSTEM

7G-7889 ALTERNATOR GP - CHARGING (contd.)

i01550670



GRAPHIC #2

g00806862

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

9W-3043 ALTERNATOR GP-CHARGING*R

24 VOLT, 52 AMPERE

PART OF 132-1191, 197-8101 ALTERNATOR GP-CHARGING
AN ATTACHMENT

SMCS-1405

i01351486

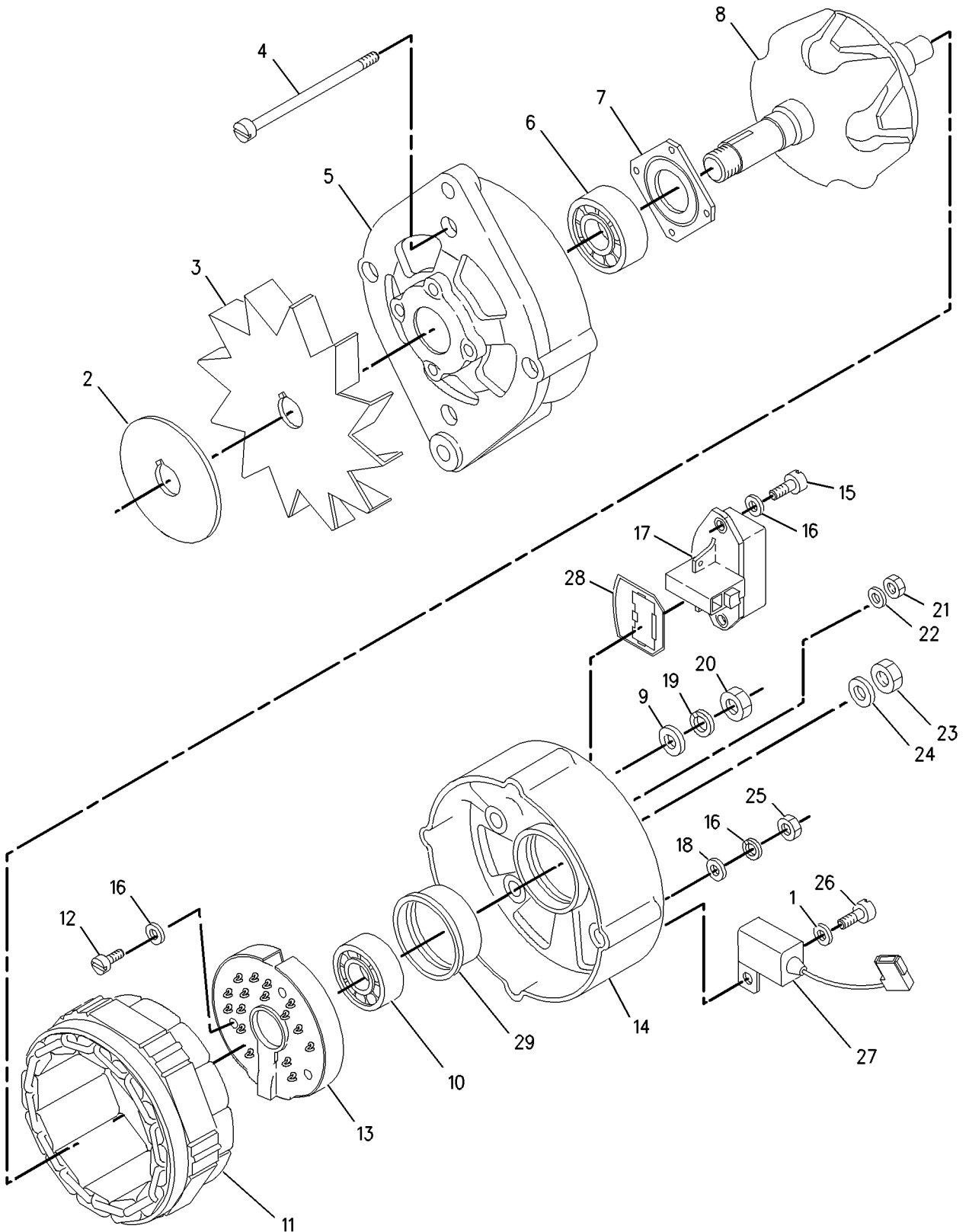
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8F-1434	2	LOCKWASHER (0.51MM THK)						
	2	1	8C-6141	1	PLATE-SUPPORT						
	3	1	9W-1904	1	FAN						
M	4	1	9W-1901	4	SCREW						
	5	1	8C-6149	1	FRAME AS						
	6	1	2P-8099	1	BALL BEARING						
	7	1	9W-1794	1	COVER						
	8	1	8C-6146	1	ROTOR						
	9	1	1H-3244	1	LOCKWASHER (NO.14) (1/4)						
	10	1	9W-1793	1	BEARING						
	11	1	8C-6147	1	STATOR						
M	12	1	6V-9492	2	SCREW-MACHINE (M4X0.7 THD)						
	13	1	8C-6144	1	RECTIFIER						
	14	1	8C-6148	1	FRAME AS						
M	15	1	6V-5210	2	SCREW-MACHINE (M4X0.7 THD)						
	16	1	096-6166	5	WASHER-HARD (1MM THK)						
	17	1	105-2063	1	REGULATOR AS-ALTERNATOR						
	18	1	9B-7233	1	LOCKWASHER (NO.8)						
	19	1	8T-4205	2	WASHER-HARD (2MM THK)						
M	20	1	5C-2890	2	NUT (M6X1 THD)						
M	21	1	5C-2874	1	NUT (M5X.8 THD)						
	22	1	8T-0328	1	WASHER-HARD (1MM THK)						
M	23	1	5C-7261	1	NUT (M8X1.25 THD)						
	24	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
M	25	1	5C-8312	1	NUT (M4X0.7 THD)						
M	26	1	6V-9673	1	SCREW-MACHINE (M5X0.8X12MM)						
	27	1	9W-1900	1	CAPACITOR						
	28	1	8C-6143	1	GASKET						
	29	1	8C-6142	1	RING-FITTING						
					AVAILABLE REPAIR KIT(S) :						
			9W-1912	1	KIT-HARDWARE (ALTERNATOR) (INCLUDES SPACERS, LOCKWASHERS, NUTS, SCREWS, AND KEY)						
			8C-6150	1	KIT-TERMINAL (STARTER) (INCLUDES NUTS, WASHERS, INSULATORS, BUSHING, STUD AND CAP)						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

9W-3043 ALTERNATOR GP - CHARGING (contd.)

i01351486



GRAPHIC #1

g00709519

ELECTRICAL AND STARTING SYSTEM

9X-7803 ALTERNATOR GP-CHARGING*R

24 VOLT, 100 AMPERE

AN ATTACHMENT

SMCS-1405

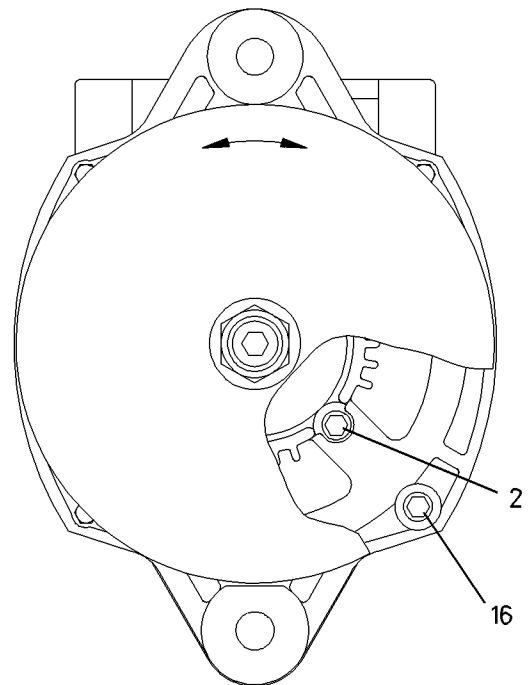
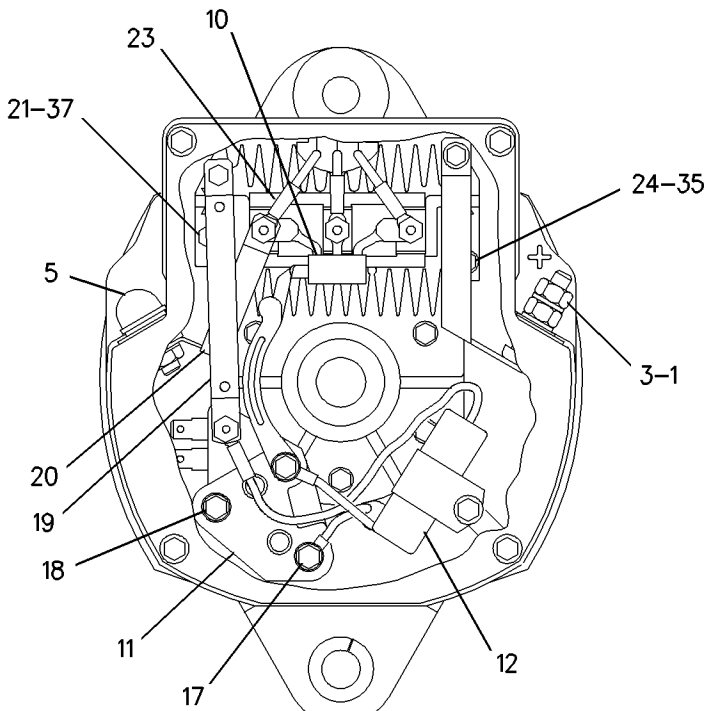
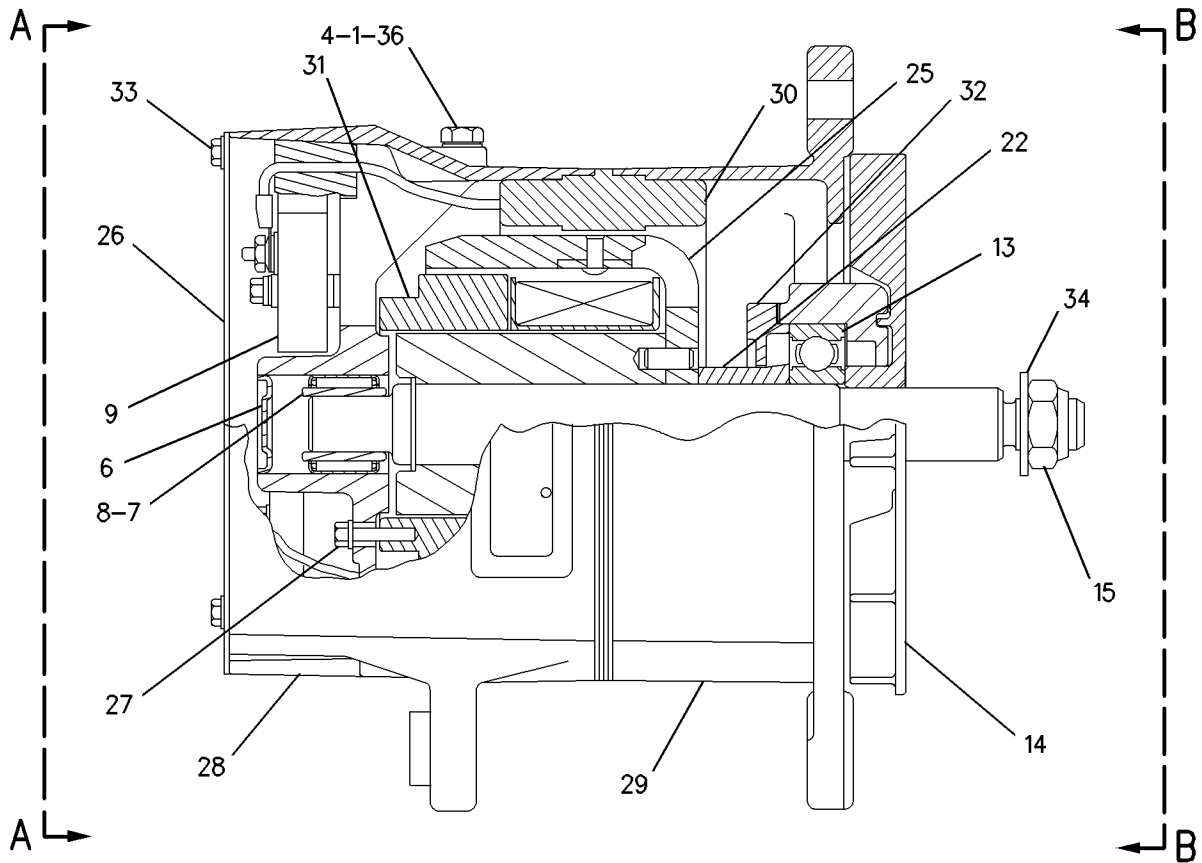
i01541437

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1	1		8T-4205	2	WASHER-HARD (7.2X14.5X2MM THK)						
2	1		9X-2500	4	SCREW-HEX FLANGE (10-24 X 38.1MM)						
3	1		6V-8187	1	NUT (1/4-28 THD)						
4	1		5S-7349	1	BOLT (1/4-20X0.5 IN)						
5	1		9L-6770	1	CAP						
6	1		9N-0943	1	PLUG-BEARING WELL						
7	1		5P-3418	1	BEARING-ROLLER						
8	1		5P-3419	1	RACE-BEARING INNER						
9	1		9L-6776	1	RECTIFIER AS						
10	1		6N-1944	1	DIODE AS						
11	1		3T-6354	1	REGULATOR AS (24 VOLT) (ALTERNATOR)						
12	1		105-3763	1	CAPACITOR AS-ALTERNATOR						
13	1		5P-7807	1	BALL BEARING						
14	1		100-6531	1	FAN-ALTERNATOR						
15	1		2K-4821	1	LOCKNUT						
16	1		9S-2009	4	SCREW-HEAD (10-24 X 3.625 IN)						
17	1		6N-1872	2	SCREW AS (8-32 X 1.25 IN)						
18	1		7N-9023	1	SCREW AS (8-32 X 26.9MM)						
19	1		106-7689	1	CONNECTOR-ALTERNATOR						
20	1		106-7690	1	CONNECTOR-ALTERNATOR						
21	1		9S-2544	2	SCREW-HEX HEAD (8-32X11.13MM)						
22	1		100-6532	1	COLLAR-ALTERNATOR						
23	1		2L-8075	3	TERMINAL (14-16 GA)						
24	1		7N-9021	2	SCREW AS						
25	1		9S-2302	1	ROTOR AS						
26	1		9N-0942	1	PLATE-COVER						
27	1		9N-3388	5	LOCKSCREW						
28	1		106-7687	1	HOUSING AS-ALTERNATOR						
29	1		2P-5616	1	FRAME-DRIVE END						
30	1		8T-9762	1	STATOR AS						
31	1		106-7688	1	COIL AS-ALTERNATOR						
32	1		9S-2390	1	RETAINER						
33	1		030-9612	4	SCREW-FORMING (10-24X.5 IN)						
34	1		7F-7621	1	WASHER (0.635X1.25X0.09 IN THK)						
35	1		8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
36	1		1H-3244	2	LOCKWASHER (6.64X11.91X.65MM THK)						
37	1		9B-7233	2	LOCKWASHER						
					AVAILABLE REPAIR KIT(S) :						
			9S-2013	1	KIT-RELAY TERMINAL (ALTERNATOR) (INCLUDES BUSHING, WASHERS, NUT AS, & STUD)						
			105-3764	1	KIT-ALTERNATOR TERMINAL (INCLUDES TERMINAL AS, INSULATOR, BUSHING, WASHER, NUTS & LOCKWASHERS)						

ELECTRICAL AND STARTING SYSTEM

9X-7803 ALTERNATOR GP - CHARGING (contd.)

i01541437



GRAPHIC #1

g00741720

ELECTRICAL AND STARTING SYSTEM

100-5045 ALTERNATOR GP-CHARGING

24 VOLT, 50 AMPERE

PART OF 100-5047 ALTERNATOR GP-CHARGING
FIELD REPLACEMENT ORDER 100-5047-PAGE 398
AN ATTACHMENT

SMCS-1405

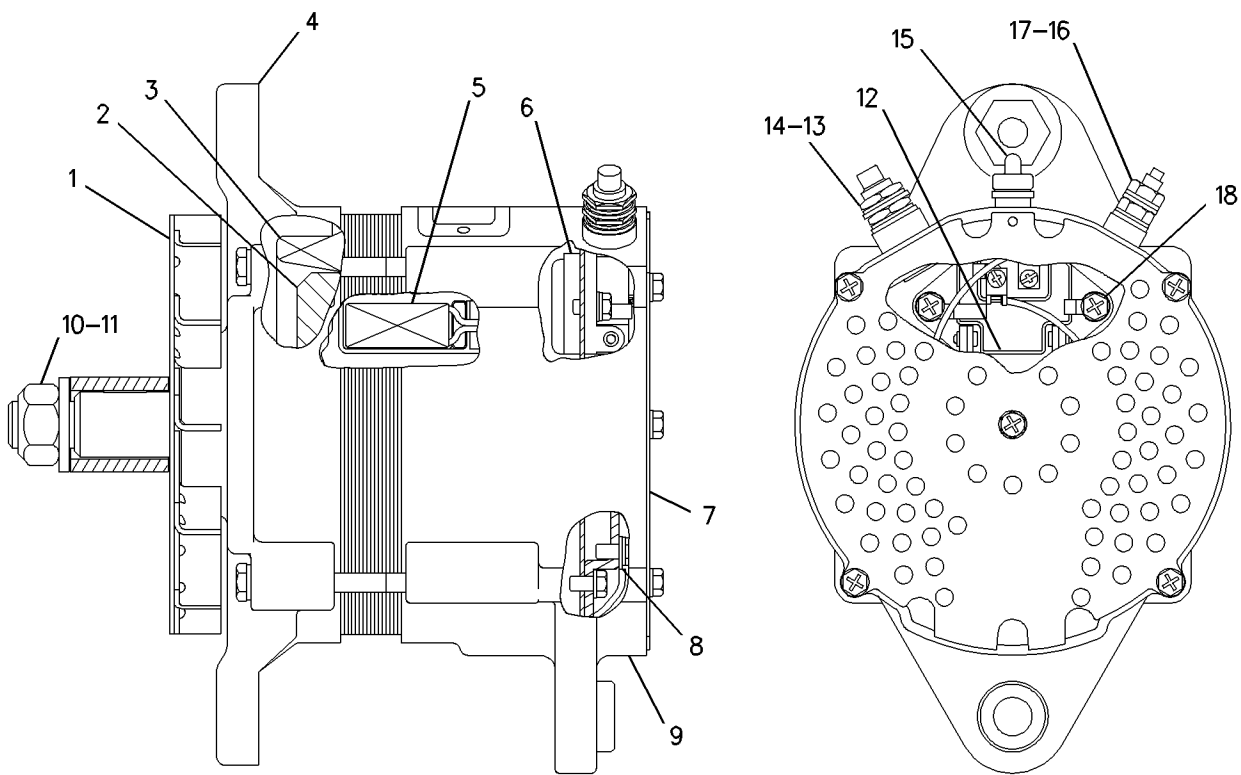
i01562993

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7T-2793	1	FAN AS						
	2	1	7T-2790	1	ROTOR AS						
	3	1	7T-6418	1	STATOR AS						
	4	1	7T-2792	1	FRAME AS						
	5	1	7T-6417	1	COIL AS						
	6	1	7T-2798	1	REGULATOR AS						
	7	1	7T-2797	1	COVER						
	8	1	7T-6416	1	HOLDER AS						
	9	1	7T-2795	1	FRAME AS						
	10	1	2K-4821	1	LOCKNUT						
	11	1	5P-8247	1	WASHER-HARD (17X32X3.5MM THK)						
	12	1	7T-2801	1	CONDENSER						
	13	1	7X-0447	1	NUT (7/16-14 THD)						
	14	1	2H-3920	1	LOCKWASHER						
	15	1	9L-6770	1	CAP (ALTERNATOR)						
	16	1	6V-8185	1	NUT (1/4-20 THD)						
	17	1	1H-3244	1	LOCKWASHER						
	18	1	7T-2802	1	WIRE AS						
F			1B-8705	1	KEY-WOODRUFF (NO.6)						
					AVAILABLE REPAIR KIT(S) :						
			7T-2799	1	KIT-BEARING (ALTERNATOR) (INCLUDES BEARINGS)						
			7T-2800	1	KIT-TERMINAL (ALTERNATOR) (INCLUDES INSULATORS, LOCKWASHERS, WASHERS & NUTS)						
			7T-2803	1	KIT-HARDWARE (INCLUDES SCREW ASSEMBLIES & BOLT ASSEMBLIES)						
			7T-2804	1	KIT-TERMINAL (ALTERNATOR) (INCLUDES CAP, BOLT, WIRE AS & BUSHING)						
			7T-2805	1	KIT-TERMINAL (ALTERNATOR) (INCLUDES NUTS, LOCKWASHERS, WASHER & INSULATORS)						
			7T-2816	1	KIT-HARDWARE (INCLUDES WASHERS, SPACERS, RING, PLATE AS, BOLT AS & PLATE)						
F-NOT SHOWN											

ELECTRICAL AND STARTING SYSTEM

100-5045 ALTERNATOR GP - CHARGING (contd.)

i01562993



GRAPHIC #1

g00784210

ELECTRICAL AND STARTING SYSTEM

100-5046 ALTERNATOR GP-CHARGING*R

24 VOLT, 50 AMPERE

PART OF 100-5047 ALTERNATOR GP-CHARGING
FIELD REPLACEMENT ORDER 100-5047-PAGE 398
AN ATTACHMENT

SMCS-1405

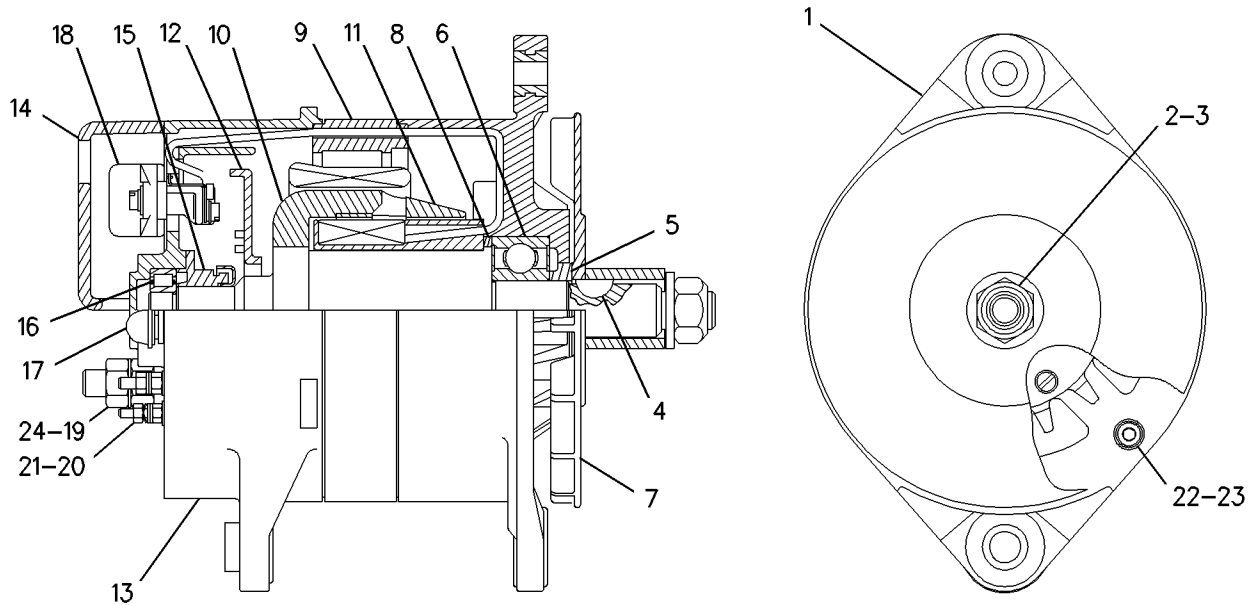
i01510703

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9G-7566	1	FRAME-DRIVE END						
	2	1	2K-4821	1	LOCKNUT						
	3	1	5P-8247	1	WASHER-HARD (17X32X3.5MM THK)						
	4	1	1B-8705	1	KEY-WOODRUFF						
	5	1	9G-7549	1	SPACER (9.5MM THK)						
	6	1	9G-7551	1	BEARING						
	7	1	9G-7564	1	FAN						
	8	1	9G-7548	1	RING						
	9	1	3T-1886	1	STATOR AS						
	10	1	3T-1885	1	COIL AS-FIELD						
	11	1	9G-7560	1	ROTOR AS						
	12	1	3T-1887	1	DIODE AS						
	13	1	9G-7568	1	FRAME AS-REAR						
	14	1	9G-7562	1	COVER AS						
	15	1	9G-7553	1	RING-COVER						
	16	1	9G-7552	1	BEARING						
	17	1	9L-6770	1	CAP (ALTERNATOR)						
	18	1	9G-7567	1	REGULATOR AS						
	19	1	7X-0447	1	NUT (7/16-14 THD)						
M	20	1	5C-2874	1	NUT (M5X.8 THD)						
	21	1	7X-0620	1	WASHER-HARD (5.5X13X1.6MM THK)						
M	22	1	9X-6001	4	BOLT-HEX HEAD (M5X0.3X150MM)						
	23	1	8T-0328	4	WASHER-HARD (5.5X10X1MM THK)						
	24	1	8T-5360	1	WASHER (12X22.5X2.5MM THK)						
					AVAILABLE REPAIR KIT(S) :						
			9G-7554	1	KIT-TERMINAL GROUND (INCLUDES LOCK WASHERS AND HEX NUTS)						
			9G-7555	1	KIT-OUTPUT TERMINAL (INCLUDES BUSHINGS, LOCK WASHERS, AND HEX NUTS)						
			9G-7556	1	KIT-CAPACITOR (INCLUDES CAPACITOR, LOCK WASHER AND SCREWS)						
			9G-7559	1	KIT-RELAY TERMINAL (INCLUDES TUBE, NUT, TERMINAL, WASHERS, BUSHING, AND CAP)						
			9G-7565	1	KIT-REGULATOR TERMINAL (INCLUDES WASHERS, BUSHING, AND HEX NUT)						
M-METRIC PART											

ELECTRICAL AND STARTING SYSTEM

100-5046 ALTERNATOR GP - CHARGING (contd.)

i01510703



GRAPHIC #1

g00784242

ELECTRICAL AND STARTING SYSTEM

100-5047 ALTERNATOR GP - CHARGING*R

24 VOLT, 50 AMPERE

FIELD REPLACEMENT FOR 100-5045-PAGE 394: FOR 100-5046-PAGE 396
AN ATTACHMENT

SMCS - 1405

i01400421

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	100-5045	1	ALTERNATOR GP - CHARGING						394
			-OR-						
YR	100-5046	1	ALTERNATOR GP - CHARGING						396
R - REMFG PART MAY BE AVAILABLE									
Y - SEPARATE ILLUSTRATION									

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

107-7977 ALTERNATOR GP-CHARGING*R

24 VOLT, 70 AMPERE

FIELD REPLACEMENT FOR 132-2156-PAGE 410

AN ATTACHMENT

SMCS-1405

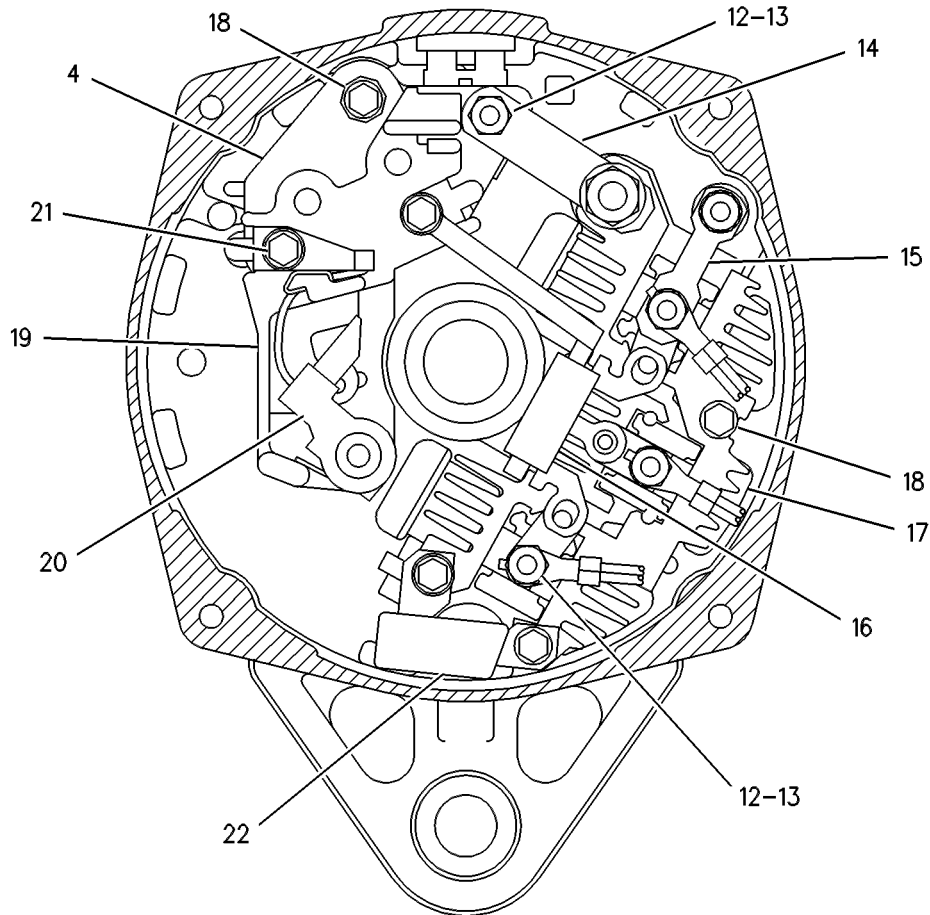
i01460775

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	1H-3244	2	LOCKWASHER						
2		1	6V-8187	1	NUT (1/4-28 THD)						
3		1	8T-4205	2	WASHER-HARD (7.2X14.5X2MM THK)						
4		1	3T-6354	1	REGULATOR AS (24 VOLT)						
5		1	9L-6770	1	CAP						
6		1	2K-4821	1	LOCKNUT						
7		1	7F-7621	1	WASHER (0.635X1.25X0.09 IN THK)						
8		1	4B-2047	1	NUT (10-24 THD)						
9		1	8T-0328	1	WASHER-HARD (5.5X10X1MM THK)						
10		1	8F-1434	1	LOCKWASHER						
11		1	3E-5450	1	COVER						
12		1	4B-2043	4	NUT (8-32 THD)						
13		1	9B-7233	4	LOCKWASHER						
14		1	3E-5448	1	CONNECTOR						
15		1	3E-5446	1	CONNECTOR						
16		1	3E-5457	1	DIODE AS						
17		1	132-1225	1	RECTIFIER AS-ALTERNATOR						
18		1	7N-9023	3	SCREW AS (8-32 X 26.9MM)						
19		1	3E-5460	1	HOLDER AS-BRUSH						
20		1	3E-5459	2	BRUSH AS-ALTERNATOR						
21		1	3N-3718	2	SCREW AS						
22		1	3E-5458	1	CAPACITOR AS-ALTERNATOR						
23		1	4M-5281	1	BOLT (1/4-20X0.750 IN)						
24		1	3E-5454	1	FAN-ALTERNATOR						
25		1	3E-5455	1	HOUSING						
26		1	5P-7807	1	BALL BEARING						
27		1	3E-5447	1	PLATE						
28		1	030-9612	3	SCREW-FORMING						
29		1	132-1222	1	ROTOR AS-ALTERNATOR (24 VOLT)						
30		1	132-1223	1	STATOR AS-ALTERNATOR (24 VOLT)						
31		1	132-1224	1	FRAME AS-ALTERNATOR						
32		1	5P-6920	1	BEARING-ROLLER						
33		1	132-1228	1	KIT-ALTERNATOR TERMINAL (BATTERY) (INCLUDES NUTS, TERMINAL, LOCKWASHER, INSULATOR & ADAPTER)						
34		1	132-1229	1	KIT-ALTERNATOR TERMINAL (RELAY) (INCLUDES NUTS, LOCKWASHER, INSULATOR, BUSHING, WASHERS, CONNECTOR, TERMINAL & RECTIFIER)						
35		1	132-1230	1	KIT-ALTERNATOR TERMINAL (INDICATOR LIGHT) (INCLUDES INSULATOR, WASHER, NUT & TERMINAL)						

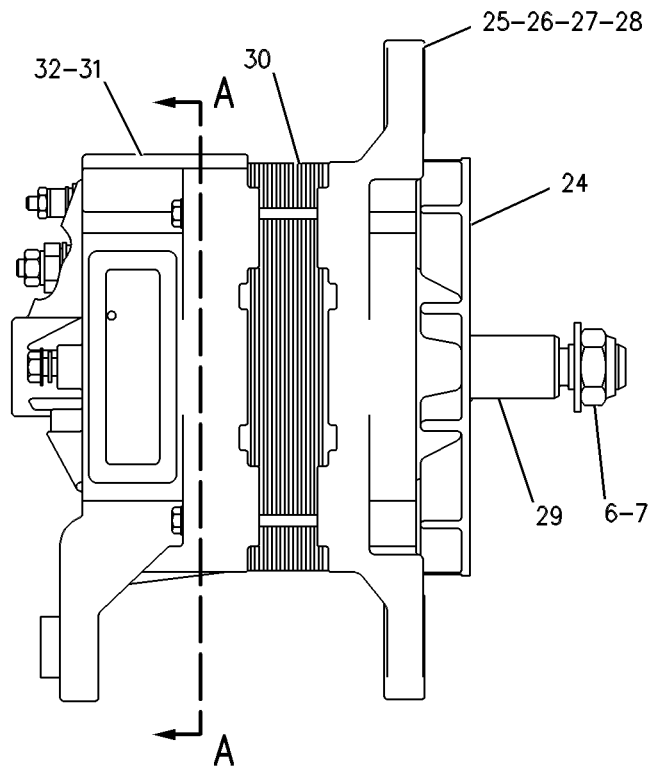
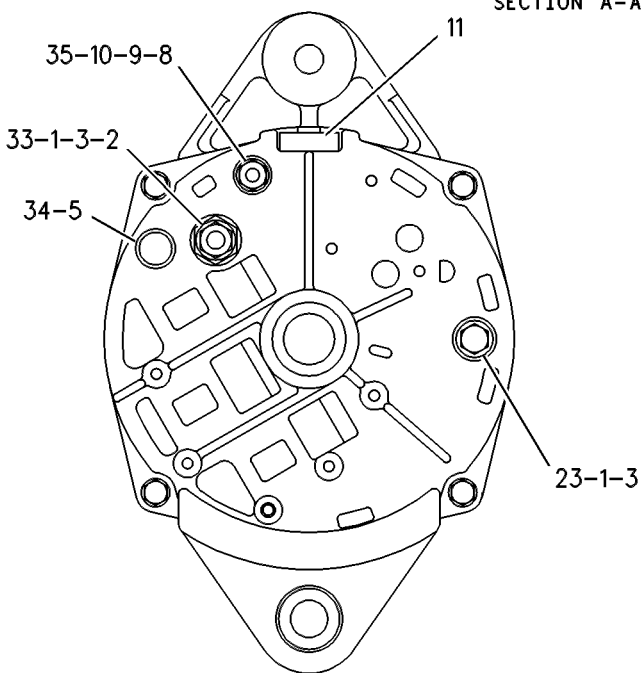
ELECTRICAL AND STARTING SYSTEM

107-7977 ALTERNATOR GP - CHARGING (contd.)

i01460775



SECTION A-A



GRAPHIC #1

g00122232

ELECTRICAL AND STARTING SYSTEM

117-1379 ALTERNATOR GP-CHARGING*R

12 VOLT, 130 AMPERE

PART OF 188-3506 ALTERNATOR GP-CHARGING

ALSO AN ATTACHMENT

SMCS-1405

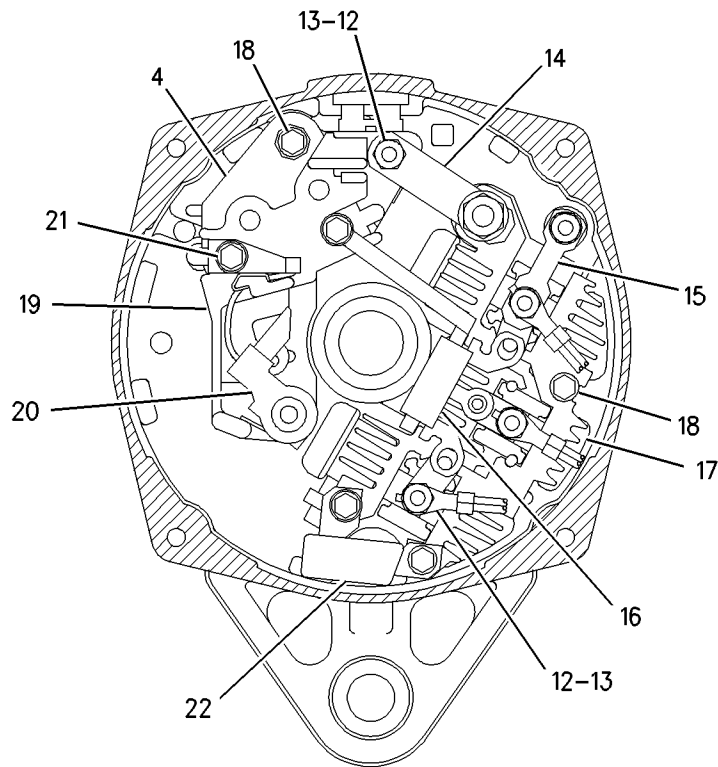
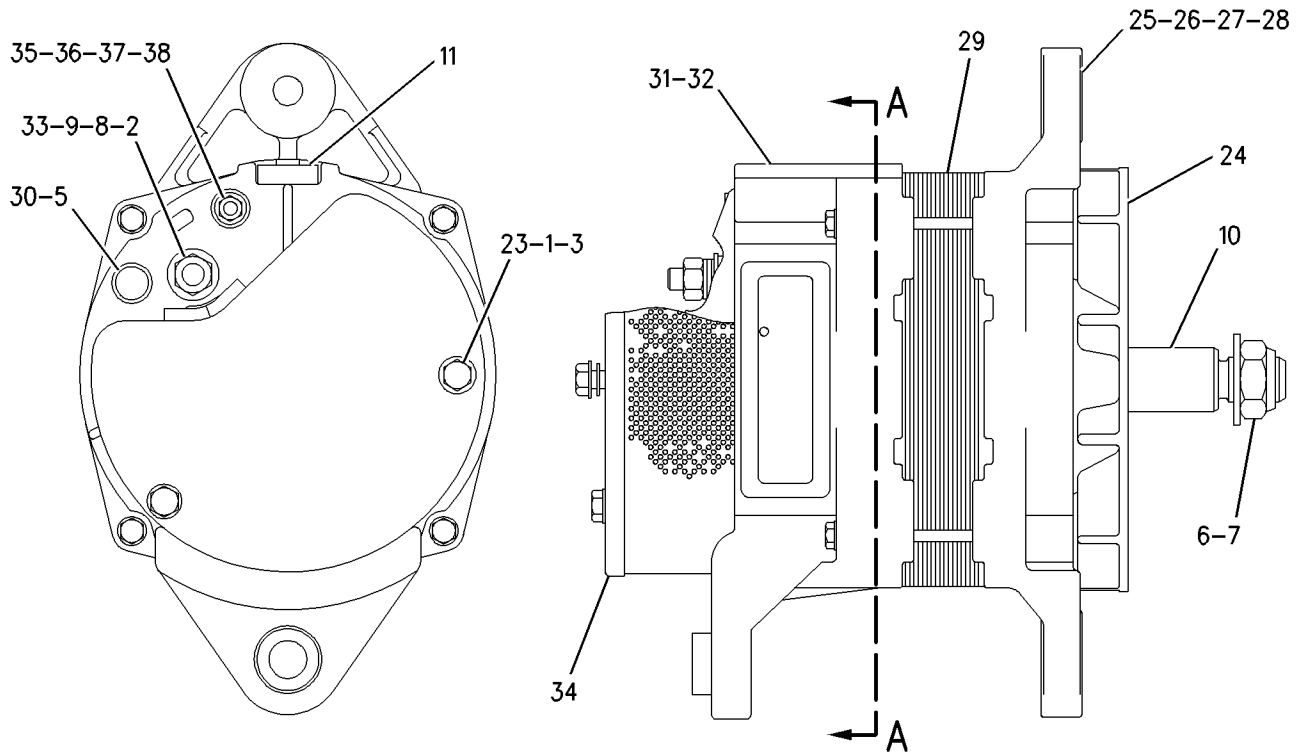
i01534514

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	1H-3244	1	LOCKWASHER						
2		1	6V-8189	1	NUT (5/16-18 THD)						
3		1	8T-4205	1	WASHER-HARD (7.2X14.5X2MM THK)						
4		1	3E-5451	1	REGULATOR AS						
5		1	9L-6770	1	CAP (DUST)						
6		1	2K-4821	1	LOCKNUT						
7		1	7F-7621	1	WASHER (0.635X1.25X0.09 IN THK)						
8		1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
9		1	3F-9556	1	LOCKWASHER						
10		1	137-4937	1	ROTOR AS-ALTERNATOR						
11		1	3E-5450	1	COVER						
12		1	4B-2043	4	NUT (8-32 THD)						
13		1	9B-7233	4	LOCKWASHER						
14		1	3E-5448	1	CONNECTOR						
15		1	3E-5446	1	CONNECTOR						
16		1	3E-5457	1	DIODE AS						
17		1	3E-5461	1	RECTIFIER AS						
18		1	7N-9023	3	SCREW AS (8-32 X 26.9MM)						
19		1	3E-5460	1	HOLDER AS-BRUSH						
20		1	3E-5459	2	BRUSH AS-ALTERNATOR						
21		1	3N-3718	2	SCREW AS						
22		1	3E-5458	1	CAPACITOR AS-ALTERNATOR						
23		1	8T-9367	1	BOLT (1/4-20X2 IN)						
24		1	3E-5454	1	FAN-ALTERNATOR						
25		1	3E-5455	1	HOUSING						
26		1	5P-7807	1	BALL BEARING						
27		1	3E-5447	1	PLATE						
28		1	030-9612	3	SCREW-FORMING (10-24X.5 IN)						
29		1	100-3686	1	STATOR AS-ALTERNATOR						
30		1	132-1230	1	KIT-ALTERNATOR TERMINAL						
31		1	132-1224	1	FRAME AS-ALTERNATOR						
32		1	5P-6920	1	BEARING-ROLLER						
33		1	3E-5462	1	KIT-TERMINAL (INCLUDES NUTS, TERMINAL, LOCKWASHER AND INSULATOR)						
34		1	126-2368	1	KIT-ALTERNATOR GUARD (INCLUDES GUARD, BOLT, SCREW AND LOCKWASHER)						
35		1	132-1229	1	KIT-ALTERNATOR TERMINAL (INCLUDES BUSHING, WASHER, NUT AND TERMINAL)						
36		1	4B-2047	1	NUT (10-24 THD)						
37		1	8T-0328	1	WASHER-HARD (5.5X10X1MM THK)						
38		1	8F-1434	1	LOCKWASHER						

ELECTRICAL AND STARTING SYSTEM

117-1379 ALTERNATOR GP - CHARGING (contd.)

i01534514



SECTION A-A

GRAPHIC #1

g00796770

ELECTRICAL AND STARTING SYSTEM

121-4134 ALTERNATOR GP-CHARGING*R

12 VOLT, 115 AMPERE
AN ATTACHMENT

SMCS-1405

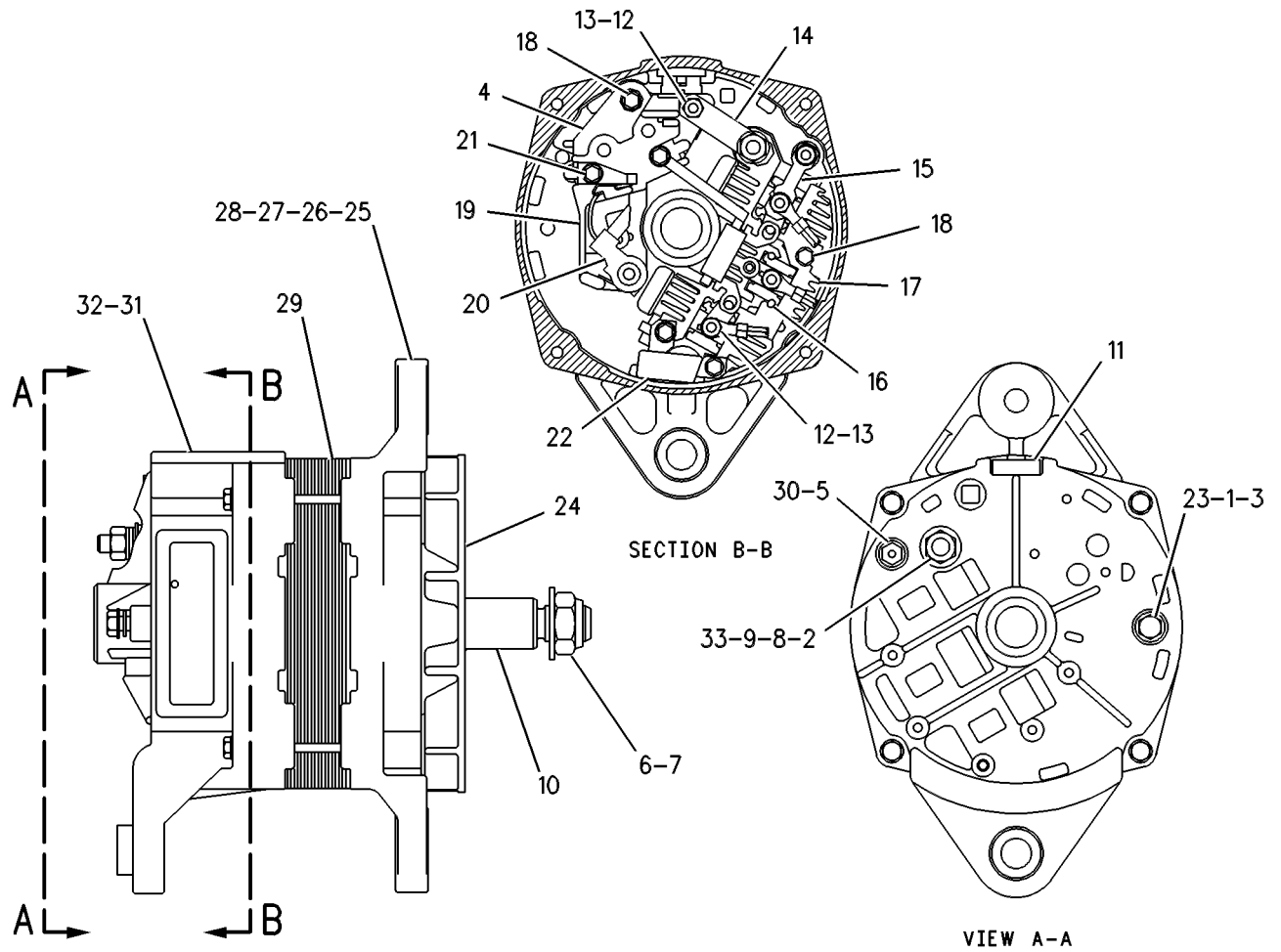
i01460785

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1	1		1H-3244	1	LOCKWASHER						
2	1		6V-8189	1	NUT (5/16-18 THD)						
3	1		8T-4205	1	WASHER-HARD (7.2X14.5X2MM THK)						
4	1		3E-5451	1	REGULATOR AS						
5	1		9L-6770	1	CAP						
6	1		2K-4821	1	LOCKNUT						
7	1		7F-7621	1	WASHER (0.635X1.25X0.09 IN THK)						
8	1		8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
9	1		3F-9556	1	LOCKWASHER						
10	1		137-4936	1	ROTOR AS-ALTERNATOR						
11	1		3E-5450	1	COVER						
12	1		4B-2043	4	NUT (8-32 THD)						
13	1		9B-7233	4	LOCKWASHER						
14	1		3E-5448	1	CONNECTOR						
15	1		3E-5446	1	CONNECTOR						
16	1		3E-5457	1	DIODE AS						
17	1		3E-5461	1	RECTIFIER AS						
18	1		7N-9023	3	SCREW AS (8-32 X 26.9MM)						
19	1		3E-5460	1	HOLDER AS-BRUSH						
20	1		3E-5459	2	BRUSH AS-ALTERNATOR						
21	1		3N-3718	2	SCREW AS						
22	1		3E-5458	1	CAPACITOR AS-ALTERNATOR						
23	1		4M-5281	1	BOLT (1/4-20X0.750 IN)						
24	1		3E-5454	1	FAN-ALTERNATOR						
25	1		3E-5455	1	HOUSING						
26	1		5P-7807	1	BALL BEARING						
27	1		3E-5447	1	PLATE						
28	1		030-9612	3	SCREW-FORMING						
29	1		3E-5452	1	STATOR AS						
30	1		132-1230	1	KIT-ALTERNATOR TERMINAL (INCLUDES INSULATOR, WASHER, NUT & TERMINAL)						
31	1		132-1224	1	FRAME AS-ALTERNATOR						
32	1		5P-6920	1	BEARING-ROLLER						
33	1		3E-5462	1	KIT-TERMINAL (INCLUDES INSULATOR, LOCKWASHER, NUTS & TERMINAL)						

ELECTRICAL AND STARTING SYSTEM

121-4134 ALTERNATOR GP - CHARGING (contd.)

i01460785



GRAPHIC #1

g00266002

ELECTRICAL AND STARTING SYSTEM

125-9597 ALTERNATOR GP-CHARGING*R

12 VOLT, 145 AMPERE
AN ATTACHMENT

SMCS-1405

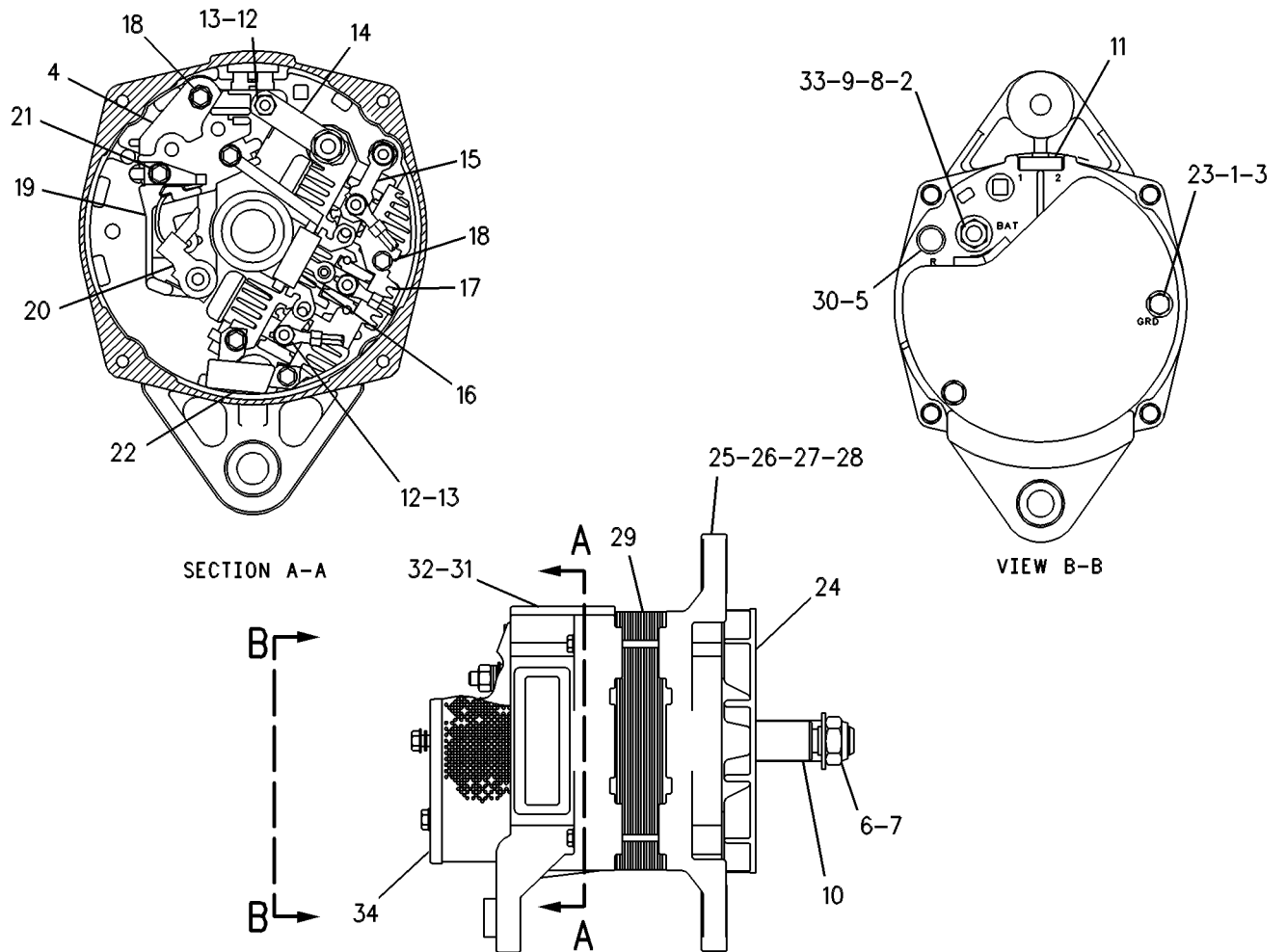
i01461322

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	1H-3244	1	LOCKWASHER						
2		1	6V-8189	1	NUT (5/16-18 THD)						
3		1	8T-4205	1	WASHER-HARD (7.2X14.5X2MM THK)						
4		1	3E-5451	1	REGULATOR AS						
5		1	9L-6770	1	CAP						
6		1	2K-4821	1	LOCKNUT						
7		1	7F-7621	1	WASHER (0.635X1.25X0.09 IN THK)						
8		1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						
9		1	3F-9556	1	LOCKWASHER						
10		1	137-4937	1	ROTOR AS-ALTERNATOR						
11		1	3E-5450	1	COVER						
12		1	4B-2043	4	NUT (8-32 THD)						
13		1	9B-7233	4	LOCKWASHER						
14		1	3E-5448	1	CONNECTOR						
15		1	3E-5446	1	CONNECTOR						
16		1	3E-5457	1	DIODE AS						
17		1	3E-5461	1	RECTIFIER AS						
18		1	7N-9023	3	SCREW AS (8-32 X 26.9MM)						
19		1	3E-5460	1	HOLDER AS-BRUSH						
20		1	3E-5459	2	BRUSH AS-ALTERNATOR						
21		1	3N-3718	2	SCREW AS						
22		1	3E-5458	1	CAPACITOR AS-ALTERNATOR						
23		1	8T-9367	1	BOLT (1/4-20X2 IN)						
24		1	3E-5454	1	FAN-ALTERNATOR						
25		1	3E-5455	1	HOUSING						
26		1	5P-7807	1	BALL BEARING						
27		1	3E-5447	1	PLATE						
28		1	030-9612	3	SCREW-FORMING						
29		1	137-4938	1	STATOR AS-ALTERNATOR						
30		1	132-1230	1	KIT-ALTERNATOR TERMINAL (INCLUDES BUSHING, WASHER, NUT AND TERMINAL)						
31		1	132-1224	1	FRAME AS-ALTERNATOR						
32		1	5P-6920	1	BEARING-ROLLER						
33		1	3E-5462	1	KIT-TERMINAL (INCLUDES NUTS, TERMINAL, LOCKWASHER AND INSULATOR)						
34		1	126-2368	1	KIT-ALTERNATOR GUARD (INCLUDES GUARD, BOLT, SCREW & LOCKWASHER)						

ELECTRICAL AND STARTING SYSTEM

125-9597 ALTERNATOR GP - CHARGING (contd.)

i01461322



GRAPHIC #1

g00272795

ELECTRICAL AND STARTING SYSTEM

132-1191 ALTERNATOR GP-CHARGING

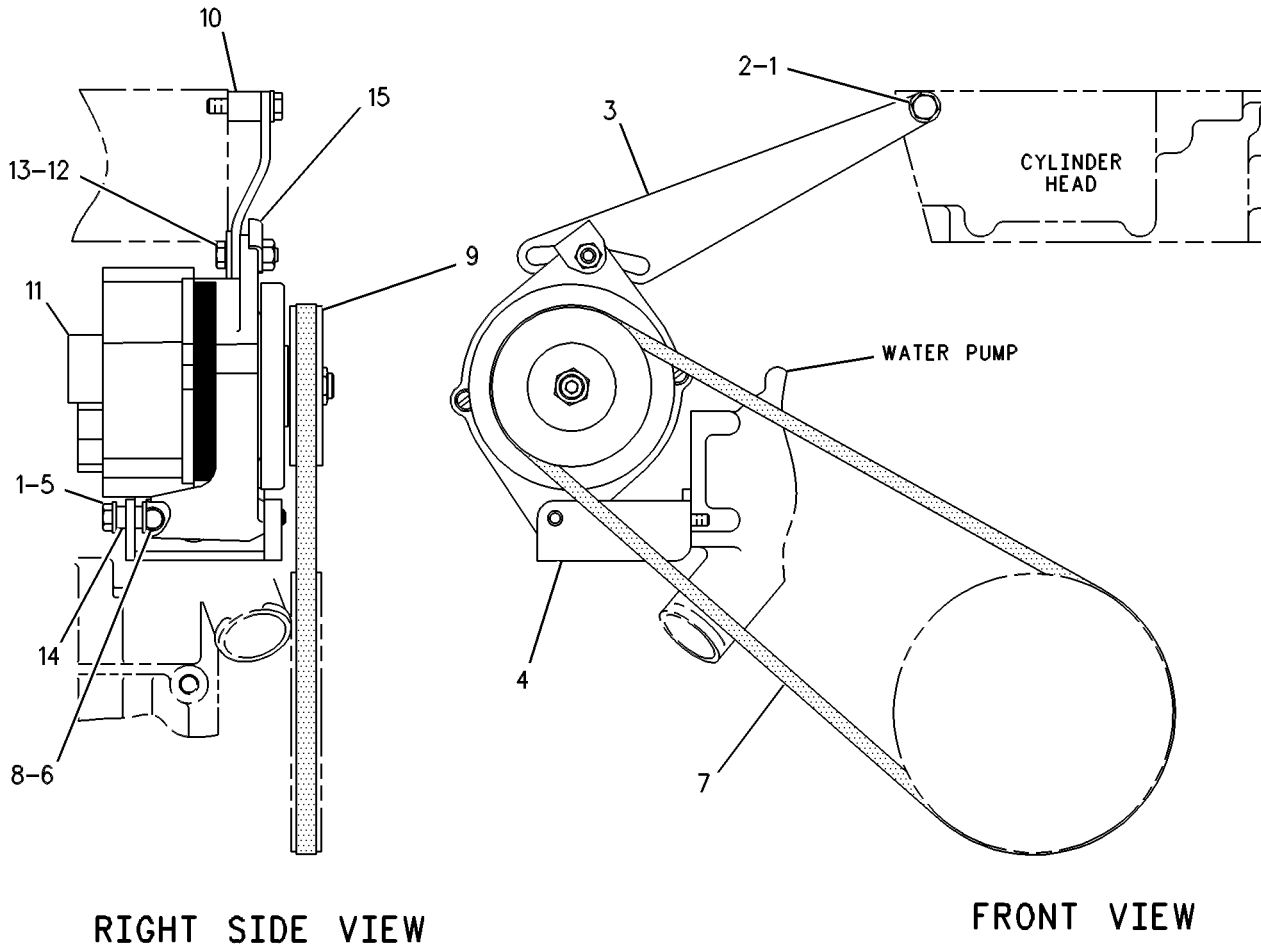
24 VOLT, 52 AMPERE
AN ATTACHMENT

SMCS-1405

i00638645

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	8T-4121	3	WASHER (2.5MM THK)							
M	2	1	8T-4182	1	BOLT (M10X1.5X45MM)							
	3	1	9Y-5324	1	STRAP							
	4	1	9Y-5326	1	BRACKET AS							
M	5	1	7X-2543	1	BOLT (M10X1.50X120MM)							
M	6	1	8T-4189	2	BOLT (M8X1.25X20MM)							
	7	1	5M-8137	1	V-BELT							
	8	1	8T-4224	2	WASHER-HARD (2MM THK)							
	9	1	9Y-5325	1	PULLEY							
	10	1	7C-6921	1	SPACER							
YR	11	1	9W-3043	1	ALTERNATOR GP-CHARGING							390
M	12	1	8T-4196	1	BOLT (M10X1.50X35MM)							
	13	1	8T-4222	1	WASHER-PLATED (2.5MM THK)							
	14	1	7C-5583	1	SPACER							
	15	1	7W-5746	1	NUT AS							

M-METRIC PART
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



RIGHT SIDE VIEW

FRONT VIEW

GRAPHIC #1

g00257645

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

132-2156 ALTERNATOR GP-CHARGING*R

24 VOLT, 70 AMPERE

FIELD REPLACEMENT ORDER 107-7977-PAGE 400

AN ATTACHMENT

SMCS-1405

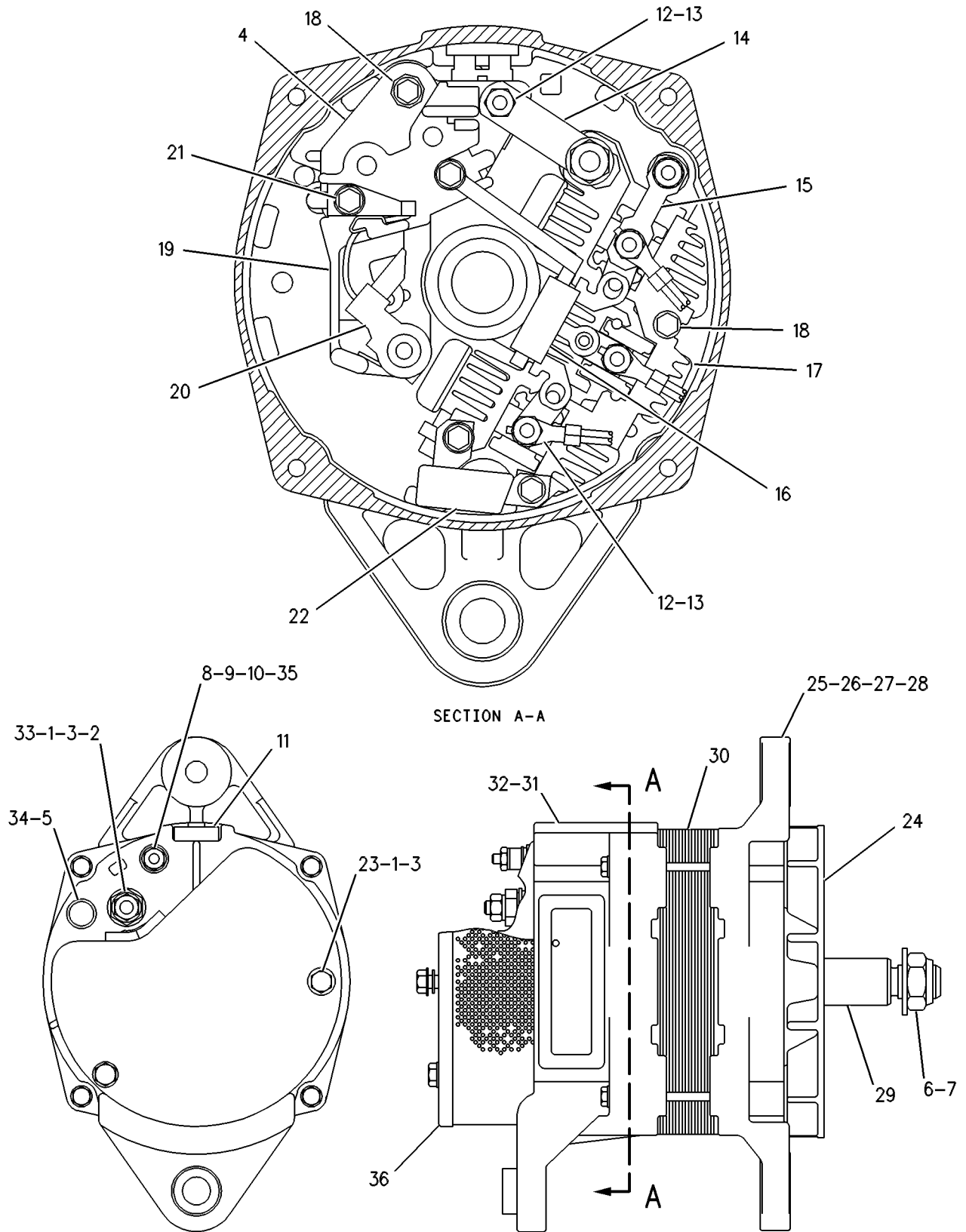
i01460788

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	1H-3244	2	LOCKWASHER						
2		1	6V-8187	1	NUT (1/4-28 THD)						
3		1	8T-4205	2	WASHER-HARD (7.2X14.5X2MM THK)						
4		1	3T-6354	1	REGULATOR AS (24 VOLT)						
5		1	9L-6770	1	CAP						
6		1	2K-4821	1	LOCKNUT						
7		1	7F-7621	1	WASHER (0.635X1.25X0.09 IN THK)						
8		1	4B-2047	1	NUT (10-24 THD)						
9		1	8T-0328	1	WASHER-HARD (5.5X10X1MM THK)						
10		1	8F-1434	1	LOCKWASHER						
11		1	3E-5450	1	COVER						
12		1	4B-2043	4	NUT (8-32 THD)						
13		1	9B-7233	4	LOCKWASHER						
14		1	3E-5448	1	CONNECTOR						
15		1	3E-5446	1	CONNECTOR						
16		1	3E-5457	1	DIODE AS						
17		1	132-1225	1	RECTIFIER AS-ALTERNATOR						
18		1	7N-9023	3	SCREW AS (8-32 X 26.9MM)						
19		1	3E-5460	1	HOLDER AS-BRUSH						
20		1	3E-5459	2	BRUSH AS-ALTERNATOR						
21		1	3N-3718	2	SCREW AS						
22		1	3E-5458	1	CAPACITOR AS-ALTERNATOR						
23		1	8T-9367	1	BOLT (1/4-20X2 IN)						
24		1	3E-5454	1	FAN-ALTERNATOR						
25		1	3E-5455	1	HOUSING						
26		1	5P-7807	1	BALL BEARING						
27		1	3E-5447	1	PLATE						
28		1	030-9612	3	SCREW-FORMING						
29		1	132-1222	1	ROTOR AS-ALTERNATOR (24 VOLT)						
30		1	132-1223	1	STATOR AS-ALTERNATOR (24 VOLT)						
31		1	132-1224	1	FRAME AS-ALTERNATOR						
32		1	5P-6920	1	BEARING-ROLLER						
33		1	132-1228	1	KIT-ALTERNATOR TERMINAL (BATTERY) (INCLUDES TERMINAL, NUTS, ADAPTER, LOCKWASHER, & INSULATOR)						
34		1	132-1230	1	KIT-ALTERNATOR TERMINAL (INDICATOR LIGHT) (INCLUDES WASHER, NUT, TERMINAL & INSULATOR)						
35		1	132-1229	1	KIT-ALTERNATOR TERMINAL (RELAY) (INCLUDES BUSHINGS, NUTS, CONNECTOR, LOCKWASHER, WASHER, RECTIFIER & TERMINAL),						
36		1	126-2368	1	KIT-ALTERNATOR GUARD (INCLUDES GUARD, BOLT, SCREW & LOCKWASHER)						

ELECTRICAL AND STARTING SYSTEM

132-2156 ALTERNATOR GP - CHARGING (contd.)

i01460788



GRAPHIC #1

g00265036

ELECTRICAL AND STARTING SYSTEM

188-3506 ALTERNATOR GP-CHARGING

12 VOLT, 130 AMPERE

ALSO AN ATTACHMENT

SMCS-1405

i01517319

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	117-1379	1	ALTERNATOR GP-CHARGING						402
	2	1	126-8240	1	SUPPORT-ALTERNATOR						
	3	1	131-2182	1	SUPPORT-ALTERNATOR						
	4	1	1H-2415	1	BOLT						
	5	1	6V-8188	2	NUT (1/2-13 THD)						
	6	1	7X-0338	1	BOLT (1/2-13X6 IN)						
	7	1	8T-4121	6	WASHER-HARD (11X21X2.5MM THK)						
M	8	1	8T-4186	2	BOLT (M10X1.5X40MM)						
M	9	1	8T-4195	4	BOLT (M10X1.5X30MM)						
	10	1	8T-4223	4	WASHER-HARD (13.5X25.5X3MM THK)						

M-METRIC PART

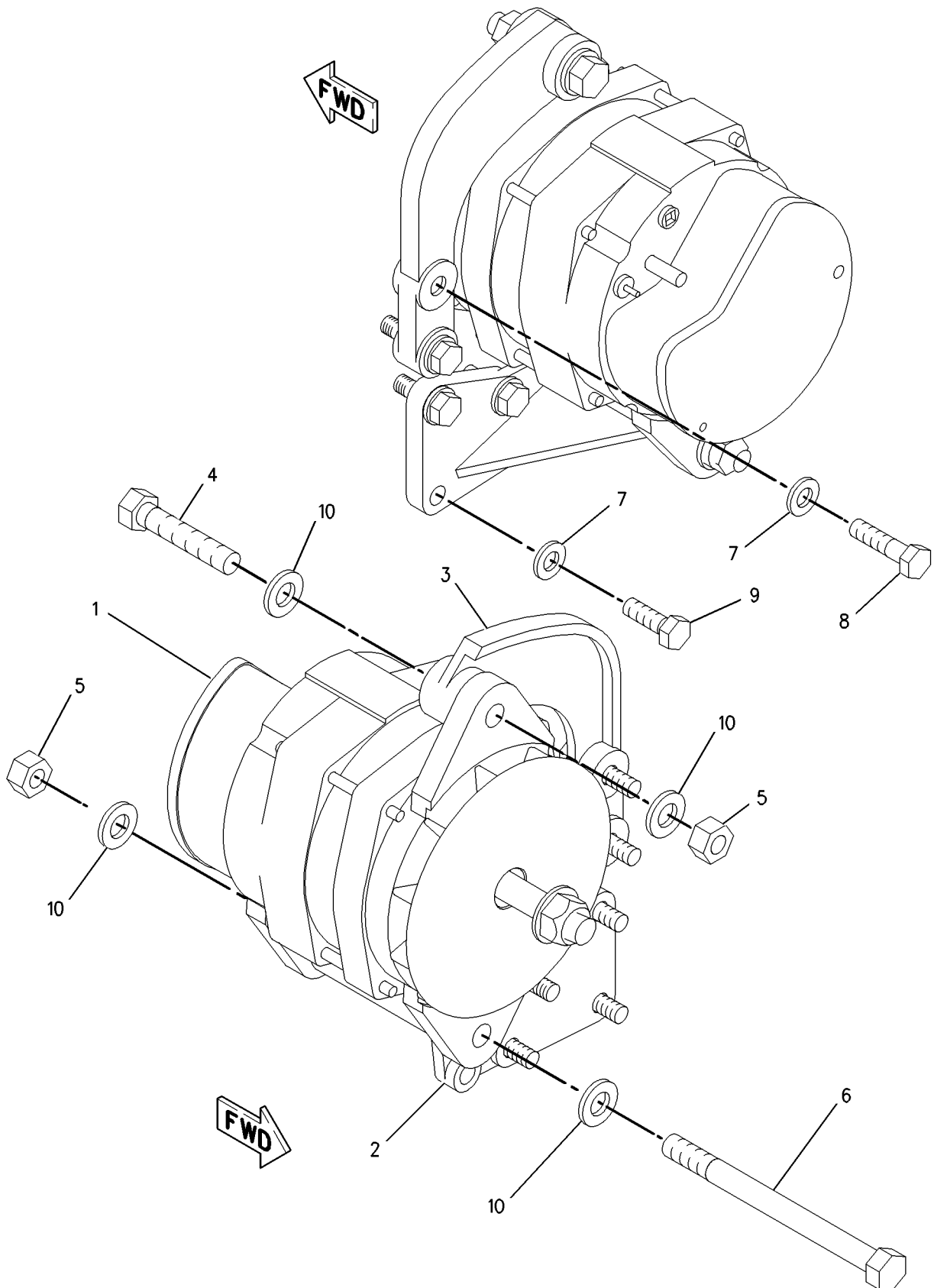
R-REMG PART MAY BE AVAILABLE

Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

188 - 3506 ALTERNATOR GP - CHARGING (contd.)

i01517319



GRAPHIC #1

g00758669

ELECTRICAL AND STARTING SYSTEM

197-8101 ALTERNATOR GP-CHARGING

24 VOLT, 52 AMPERE

FOR USE WITH "C" SIZE BELT. CANNOT BE USED WITH FAN DRIVE SUPPORT BRACKET
AN ATTACHMENT

SMCS-1405

i01436140

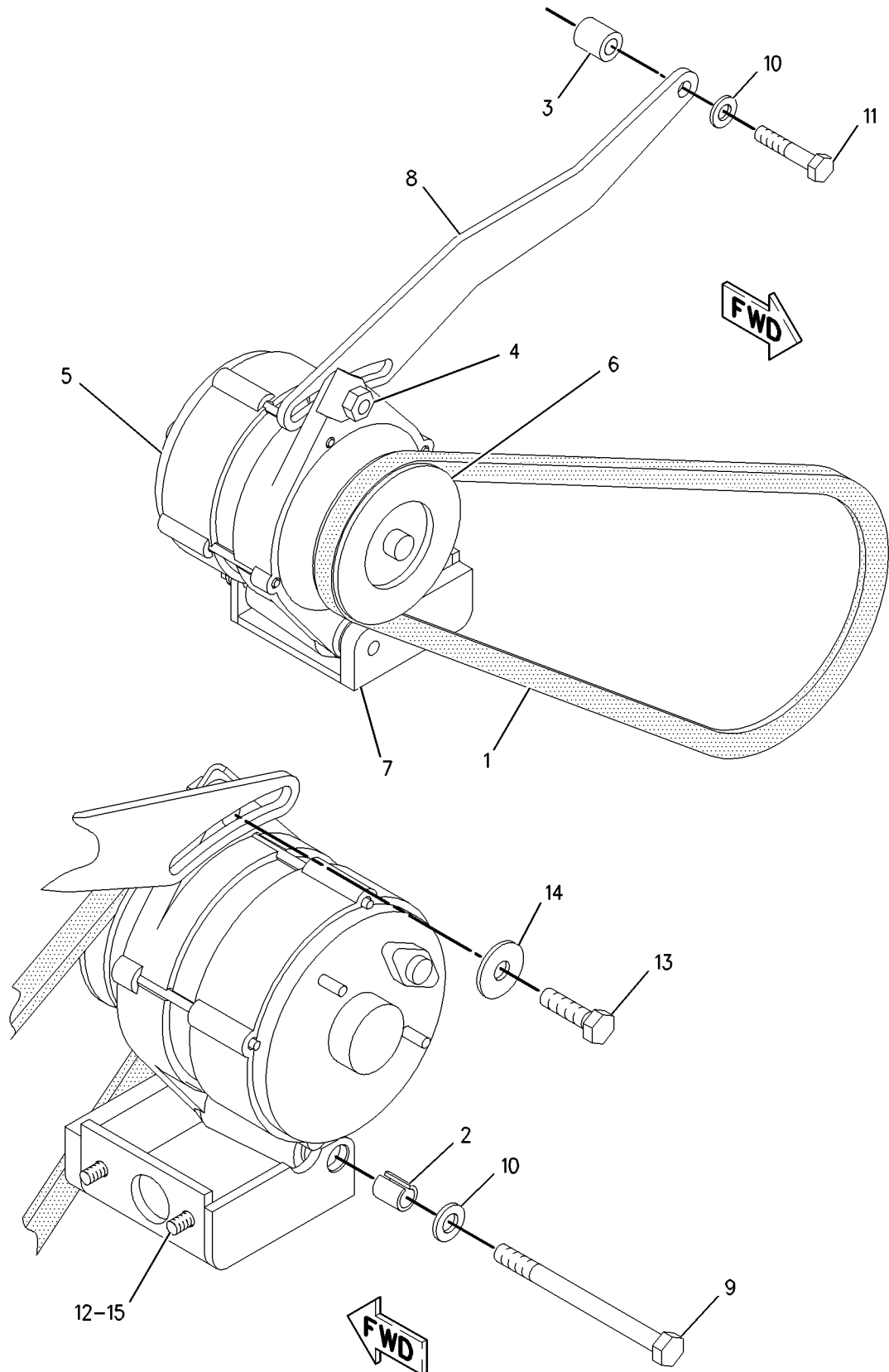
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5M-8137	1	V-BELT (1/2INCH X 50INCH) (12.7MM X 1270MM (COG TYPE))						
	2	1	7C-5583	1	SPACER						
	3	1	7C-6921	1	SPACER (11X20X22.8MM THK)						
	4	1	7W-5746	1	NUT AS (M10 X 1.5 THD)						
YR	5	1	9W-3043	1	ALTERNATOR GP-CHARGING						390
	6	1	9Y-5325	1	PULLEY (17MM BORE X 108.5MM DIA) (SINGLE GROOVE)						
	7	1	9Y-5326	1	BRACKET AS						
	8	1	197-8102	1	STRAP						
M	9	1	7X-2543	1	BOLT (M10X1.5X120MM)						
	10	1	8T-4121	3	WASHER-HARD (11X21X2.5MM THK)						
M	11	1	8T-4185	1	BOLT (M10X1.5X50MM)						
M	12	1	8T-4189	2	BOLT (M8X1.25X20MM)						
M	13	1	8T-4196	1	BOLT (M10X1.5X35MM)						
	14	1	8T-4222	1	WASHER-PLATED (11X32X2.5MM THK)						
	15	1	8T-4224	2	WASHER-HARD (8.8X16X2MM THK)						

M - METRIC PART
R - REMFG PART MAY BE AVAILABLE
Y - SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

197-8101 ALTERNATOR GP - CHARGING (contd.)

i01436140



GRAPHIC #1

g00761346

ELECTRICAL AND STARTING SYSTEM

7W-0408 BATTERY CHARGER

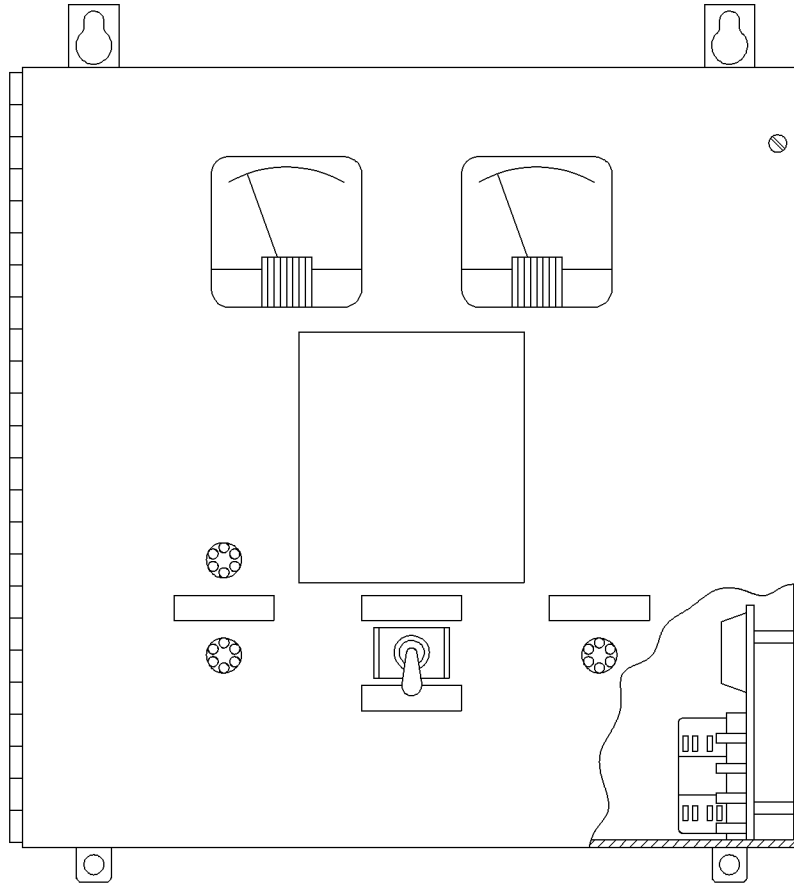
24 VOLT DC

FOR USE WITH EITHER LEAD ACID OR NICAD BATTERY
AN ATTACHMENT

SMCS-1401, 1406

i01505530

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

g00746505

ELECTRICAL AND STARTING SYSTEM

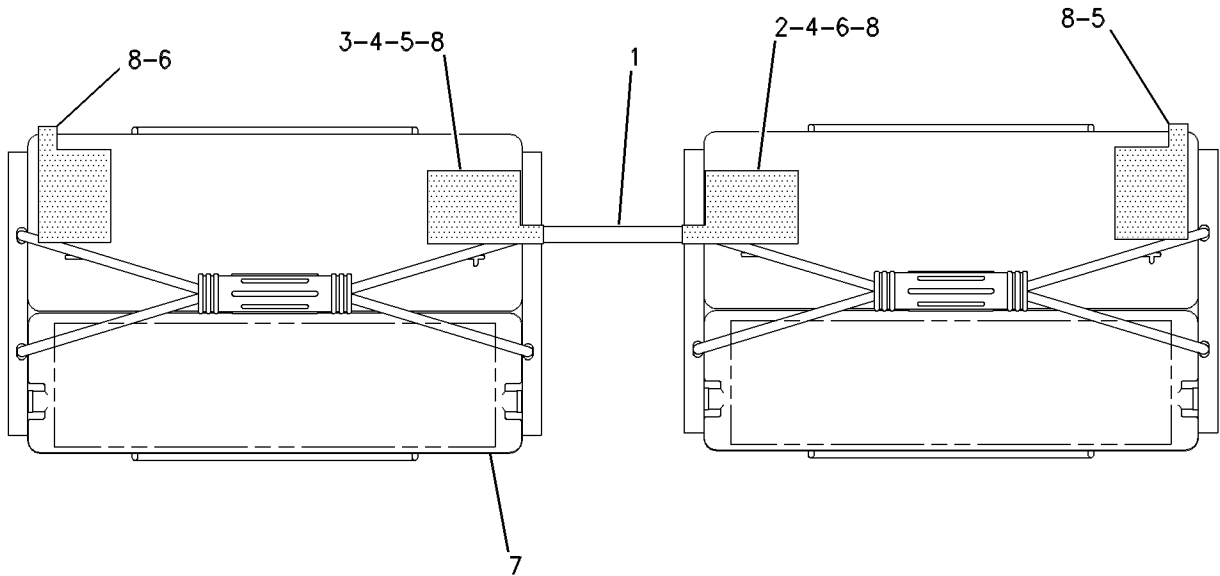
7C-1976 BATTERY GP 24 VOLT, 67 AMPERE. LOW MAINTENANCE FOR USE WITH BATTERY SUPPORT AN ATTACHMENT

SMCS-1401

i01298227

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2V-7397	1	CABLE AS						
E		1	5P-0747		CABLE (00GA) (20CM)						
	2	1	5M-9205	1	TERMINAL AS (NEG)						
	3	1	5M-9204	1	TERMINAL AS (POS)						
					(EACH TERMINAL AS INCLUDES)						
	4	1	1M-6119	1	BOLT (5/16-18X1.375IN)						
		1	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)						
	5	1	9G-0004	2	COVER (RED)						
	6	1	9G-0003	2	COVER (BLACK)						
	7	1	153-5656	2	BATTERY (12 VOLT)						
	8	1	8L-8413	4	STRAP-CABLE (1.12IN DIA)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00635090

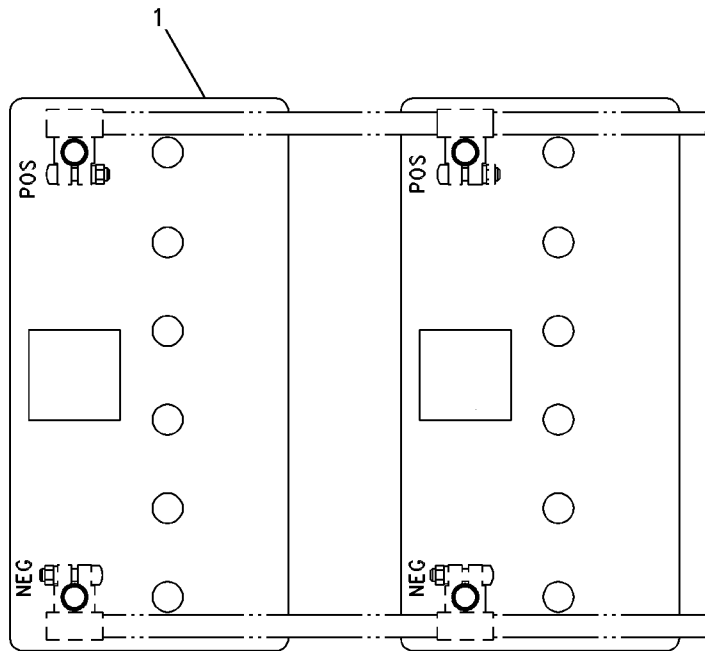
ELECTRICAL AND STARTING SYSTEM

9Y-5704 BATTERY GP 12 VOLT-LMHO 1230 CCA-184 AMP HR AN ATTACHMENT

SMCS-1401

i00911890

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	115-2421	2	BATTERY-MAINTENANCE FREE (EACH INCLUDES)						
		1	123-1373	6	PLUG AS-FILLER						



TOP VIEW

GRAPHIC #1

g00465574

ELECTRICAL AND STARTING SYSTEM

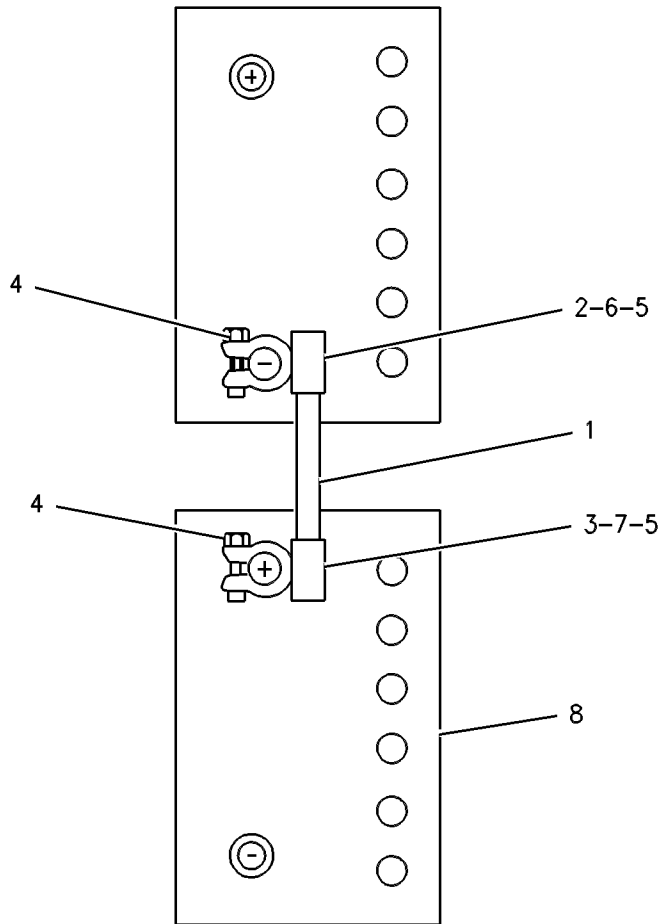
160-5447 BATTERY GP 24 VOLT, 90 AMPERE. LOW MAINTENANCE AN ATTACHMENT

SMCS-1401

i01613084

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2V-7397	1	CABLE AS						
E		1	5P-0747		CABLE (00GA) (BLACK) (20CM)						
	2	1	8T-9757	1	TERMINAL AS-BATTERY (NEGATIVE)						
	3	1	8C-5917	1	TERMINAL AS-BATTERY (POSITIVE)						
	4	1	1M-6119	2	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)						
		1	1M-6120	2	NUT-BATTERY TERMINAL (5/16-18 THD)						
	5	1	8L-8413	4	STRAP-CABLE						
	6	1	9G-0003	2	COVER-TERMINAL (BLACK)						
	7	1	9G-0004	2	COVER-TERMINAL (RED)						
	8	1	115-2421	2	BATTERY (MAINTENANCE FREE)						
					(EACH INCLUDES)						
		1	123-1373	6	PLUG AS-FILLER						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00436618

ELECTRICAL AND STARTING SYSTEM

7W-0825 CABLE GP-BATTERY

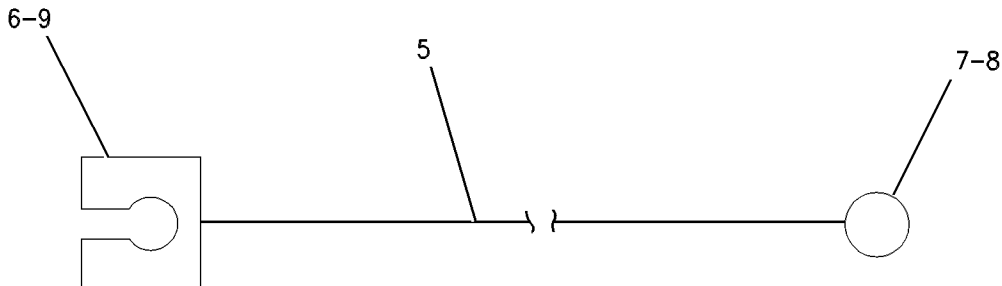
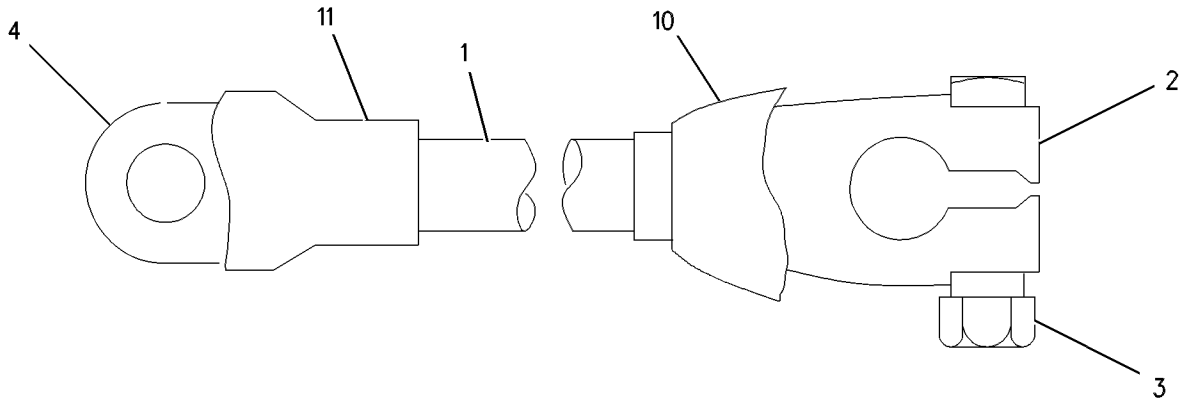
PROVIDES A POSITIVE AND A NEGATIVE CABLE AS 1879MM (74 IN) LONG
AN ATTACHMENT

SMCS-1402

i01561859

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3K-1715	1	CABLE AS						
	2	1	3S-6050	1	TERMINAL AS-BATTERY (NEGATIVE)						
	3	1	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)						
		1	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)						
	4	1	1S-7251	1	TERMINAL-RING (FOR 1/2 IN BOLT)						
	5	1	3V-6785	1	CABLE AS						
BE		1	5P-0761		CABLE (00GA) (RED)						
	6	1	3S-6049	1	TERMINAL AS-BATTERY (POSITIVE)						
		1	1M-6119	1	BOLT-BATTERY TERMINAL (5/16-18X1.375 IN)						
		1	1M-6120	1	NUT-BATTERY TERMINAL (5/16-18 THD)						
	7	1	1S-7251	1	TERMINAL-RING (FOR 1/2 IN BOLT)						
	8	1	7N-5274	1	COVER-TERMINAL (BLACK) (BATTERY)						
	9	1	8N-0869	1	COVER-TERMINAL (RED) (RING)						
	10	1	8N-1725	1	COVER-TERMINAL (RED) (BATTERY)						
	11	1	9G-8909	1	COVER-TERMINAL (BLACK) (RING)						

B- USE AS REQUIRED
E- ORDER BY THE CENTIMETER



GRAPHIC #1

g00623828

ELECTRICAL AND STARTING SYSTEM

200-2310 CONNECTION GP - ELECTRICAL

PROVIDES PARTS FOR THROTTLE SENSOR CONNECTION
AN ATTACHMENT

SMCS - 1408

i01471959

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	133-0969	1	CONNECTOR - SOCKET						
	9X-3401	3	PIN - CONNECTOR						
	8T-9834	1	PLUG AS - CONNECTOR (40 PIN)						
	3E-4367	1	RING - RETAINING						
M	3E-8557	1	BOLT (M5X0.8X39.37MM)						
	9X-3132	2	SEAL - CONNECTOR						
	8T-8737	36	PLUG - SEAL						
	8T-8732	1	RECEPTACLE - CONNECTOR						
	9W-0844	3	SOCKET - CONNECTION						
	9X-3402	39	SOCKET - CONNECTOR						
	151-6320	2	TOOL - WIRE REMOVAL						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

183-1195 CONTROL & MTG GP-ENGINE ELEK

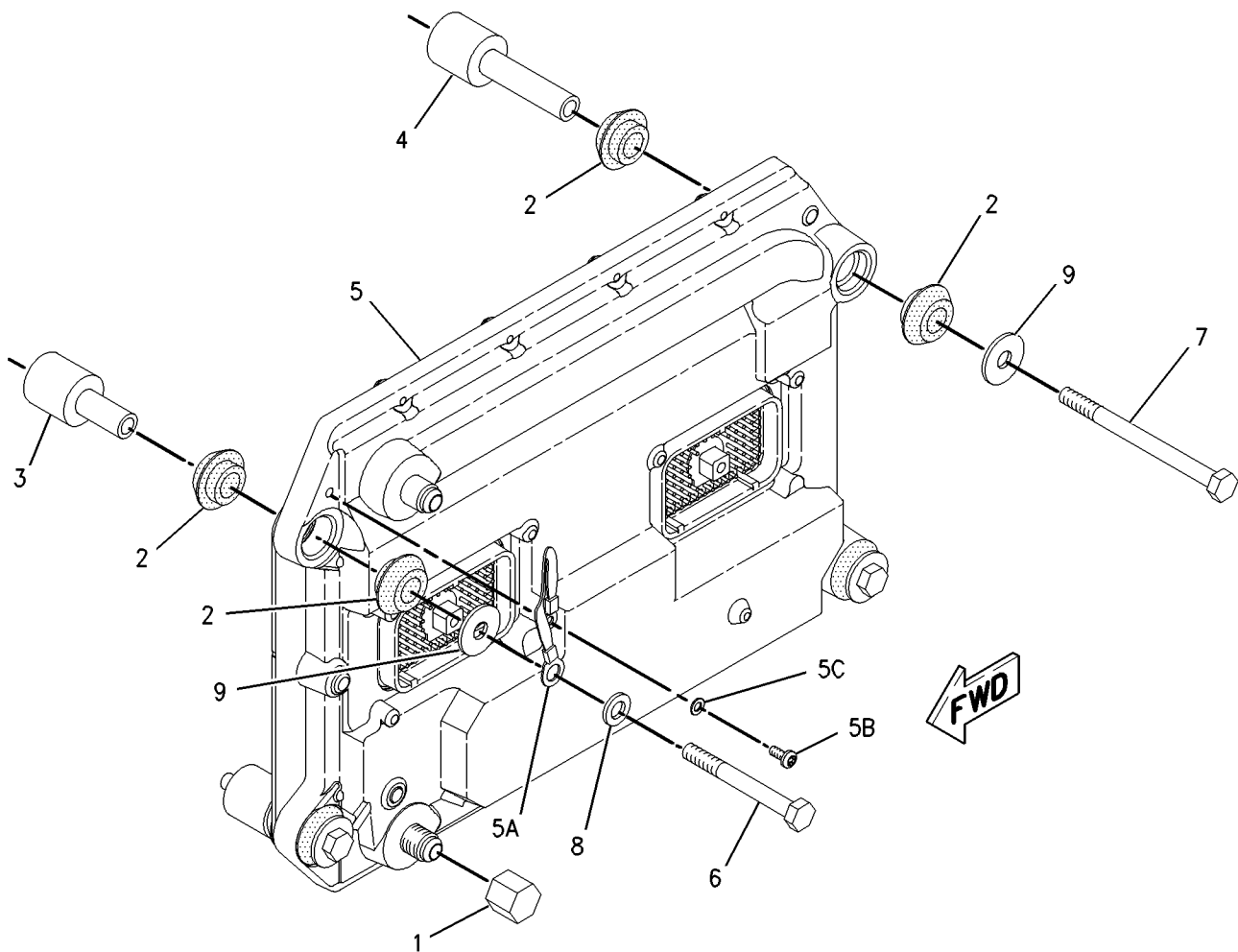
FUEL COOLED
ALSO AN ATTACHMENT

SMCS-1900, 1901

i01406147

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8S-4950	1	CAP (37 DEGREE FLARED)						
	2	1	8T-9655	8	MOUNT (ISOLATION)						
	3	1	101-3128	2	SPACER						
	4	1	169-3111	2	SPACER						
	5	1	179-9850	1	CONTROL GP-ENGINE ELECTRONIC						
	5A	1	7X-6315	1	STRAP-GROUNDING						
	5B	1	184-2472	1	SCREW-PAN HEAD (LUBRICATED)						
	5C	1	134-4126	1	WASHER (.76MM THK)						
M	6	1	5P-8347	2	BOLT (M8X1.25X70MM)						
M	7	1	6V-5223	2	BOLT (M8X1.25X100MM)						
	8	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
	9	1	9N-0869	4	WASHER-HARD (8.8X25.5X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00723153

ELECTRICAL AND STARTING SYSTEM

198-1724 CONTROL & MTG GP-ENGINE ELEK

FUEL COOLED

FOR USE WITH 195-1333-PAGE 519

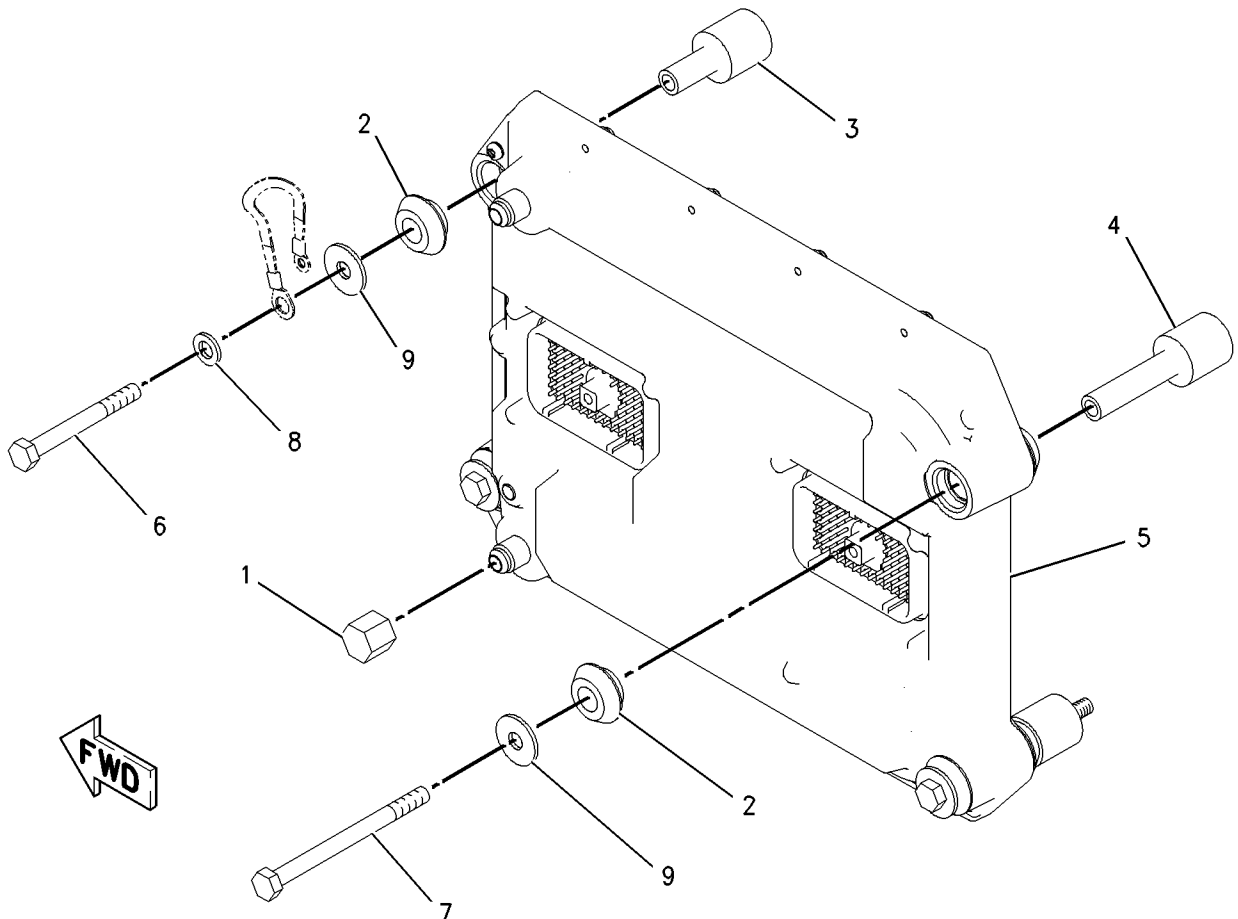
AN ATTACHMENT

SMCS-1900, 1901

i01433406

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8S-4950	1	CAP (37 DEGREE FLARED)						
	2	1	8T-9655	8	MOUNT (ISOLATION)						
	3	1	101-3128	2	SPACER						
	4	1	169-3111	2	SPACER						
Y	5	1	178-3091	1	CONTROL GP-ENGINE ELECTRONIC						430
M	6	1	5P-8347	2	BOLT (M8X1.25X70MM)						
M	7	1	6V-5223	2	BOLT (M8X1.25X100MM)						
	8	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
	9	1	9N-0869	4	WASHER-HARD (8.8X25.5X2MM THK)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00752079

ELECTRICAL AND STARTING SYSTEM

133-3329 CONTROL GP-AUTO START/STOP

CANNOT BE USED WITH A RADIATOR
AN ATTACHMENT

SMCS-1426, 4462

i01563989

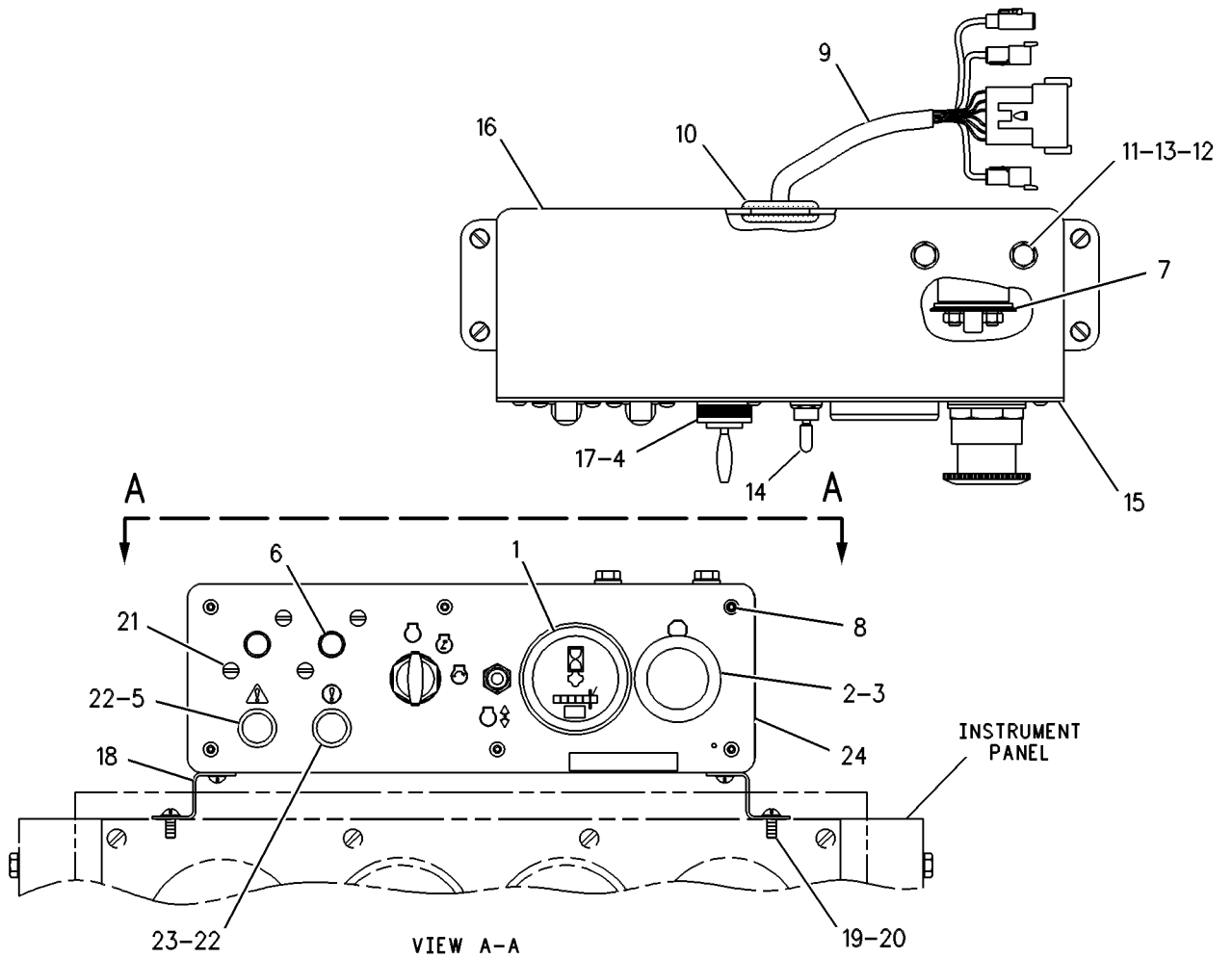
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6T-7337	1	METER-SERVICE						
	2	1	111-1325	1	BLOCK-CONTACT						
	3	1	109-6507	1	SWITCH AS-PUSH (SECONDARY STOP)						
	4	1	3E-0156	1	SWITCH GP-START (IGNITION)						
	5	1	2N-2371	1	LAMP AS-INDICATOR (ACCEPTS T 3 1/4 A-1 LAMP)						
		1	2V-7088	1	LENS-RED						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27 THD)						
M		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875 IN)						
	6	1	6T-3643	2	CIRCUIT BREAKER AS (15 AMP)						
	7	1	125-1302	1	SWITCH GP-MAGNETIC (STARTING MOTOR)						
	8	1	7D-0894	6	SCREW-HEAD						
	9	1	137-2114	1	HARNESS AS-WIRING						
	10	1	3K-9520	1	GROMMET						
	11	1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)						
	12	1	6V-8185	2	NUT (1/4-20 THD)						
	13	1	4M-5281	2	BOLT (1/4-20X0.750 IN)						
	14	1	110-7884	1	SWITCH AS-TOGGLE (LOW CURRENT) (SPEED CONTROL)						
	15	1	137-2133	1	PLATE						
	16	1	137-2113	1	ENCLOSURE						
	17	1	5P-8500	1	KEY						
	18	1	137-5135	2	BRACKET						
	19	1	9F-8125	8	LOCKWASHER						
	20	1	4B-1237	8	SCREW-MACHINE						
	21	1	3E-8035	4	SCREW-MACHINE						
	22	1	7N-5876	2	LAMP (24 VOLT)						
	23	1	141-9228	1	LAMP AS (ACCEPTS T 3 1/4 A-1 LAMP)						
		1	2V-7087	1	LENS-AMBER						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27 THD)						
M		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875 IN)						
	24	1	142-2245	1	FILM-CONTROL PANEL						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

133-3329 CONTROL GP-AUTO START/STOP (contd.)

i01563989



GRAPHIC #1

g00272128

ELECTRICAL AND STARTING SYSTEM

195-1345 CONTROL GP-AUTO START/STOP

FOR USE WITH 24 VOLT WIRING SYSTEM

AN ATTACHMENT

SMCS-1426, 4462

i01563997

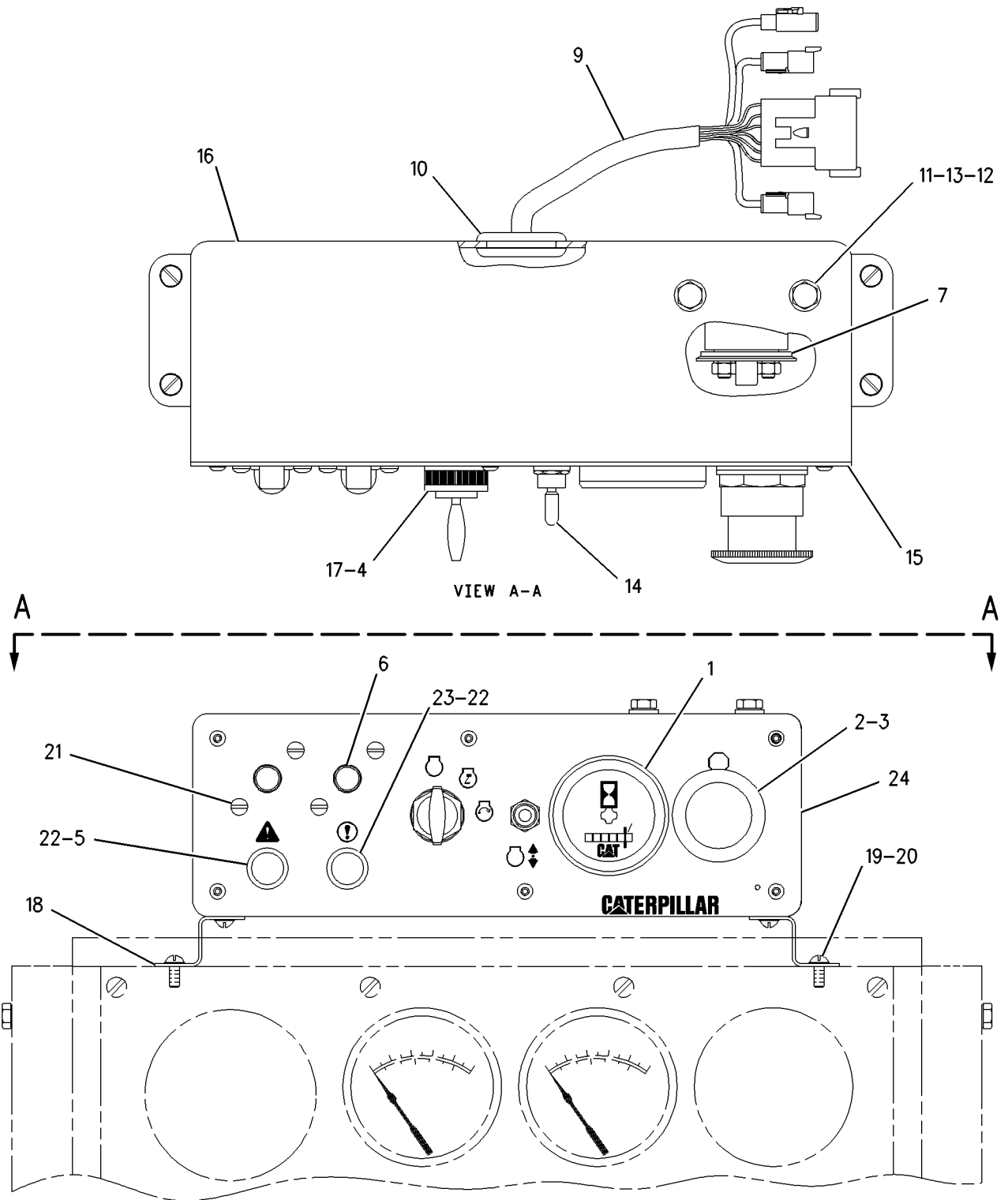
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9W-1494	1	KIT-SERVICE METER (INCLUDES METER SERVICE AND FILM SERVICE)						
	2	1	111-1325	1	BLOCK-CONTACT						
	3	1	109-6507	1	SWITCH AS-PUSH (SECONDARY STOP)						
	4	1	3E-0156	1	SWITCH GP-START (IGNITION)						
		1	6V-8362	1	SCREW-MACHINE (8-32X0.31 IN)						
		1	7T-6799	1	NUT-MOUNTING (1-32 THD)						
		1	9B-7233	1	LOCKWASHER						
	5	1	2N-2371	1	LAMP AS-INDICATOR (ACCEPTS T 3 1/4 A-1 LAMP)						
		1	2V-7088	1	LENS-RED						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27 THD)						
M		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875 IN)						
	6	1	6T-3643	2	CIRCUIT BREAKER AS (15 AMP) (EACH INCLUDES)						
		1	6V-8376	2	SCREW-MACHINE (8-32X0.25 IN)						
		1	9B-7233	2	LOCKWASHER						
	7	1	125-1302	1	SWITCH GP-MAGNETIC (STARTING MOTOR)						
	9	1	195-1344	1	HARNESS AS-WIRING						
		1	102-8805	1	KIT-RECEPTACLE (6 PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
		1	127-5486	1	RECEPTACLE AS (1 PIN)						
		1	155-2270	1	KIT-CONNECTING PLUG (2 PIN) (INCLUDES PLUG AS AND WEDGE)						
	10	1	3K-9520	1	GROMMET						
	11	1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)						
	12	1	6V-8185	2	NUT (1/4-20 THD)						
	13	1	4M-5281	2	BOLT (1/4-20X0.750 IN)						
	14	1	110-7884	1	SWITCH AS-TOGGLE (LOW CURRENT) (SPEED CONTROL)						
		1	3L-8187	3	LOCKWASHER						
		1	6T-3631	2	NUT-HEX (15/32-32 THD)						
		1	6T-3632	1	LOCKWASHER						
		1	6T-3633	1	RING-LOCKING						
		1	6V-8374	3	SCREW-MACHINE (6-32X0.25 IN)						
	15	1	137-2133	1	PLATE						
	16	1	137-2113	1	ENCLOSURE						
	17	1	5P-8500	1	KEY						
	18	1	137-5135	2	BRACKET						
	19	1	9F-8125	8	LOCKWASHER						
	20	1	4B-1237	8	SCREW-MACHINE						
	21	1	3E-8035	4	SCREW-MACHINE						
	22	1	7N-5876	2	LAMP (24 VOLT)						
	23	1	141-9228	1	LAMP AS (ACCEPTS T 3 1/4 A-1 LAMP)						
		1	2V-7087	1	LENS-AMBER						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27 THD)						
M		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875 IN)						
	24	1	142-2245	1	FILM-CONTROL PANEL						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

195-1345 CONTROL GP-AUTO START/STOP (contd.)

i01563997



GRAPHIC #1

g00737774

ELECTRICAL AND STARTING SYSTEM

205-8657 CONTROL GP-AUTO START/STOP

FOR USE WITH 12 VOLT SYSTEM

AN ATTACHMENT

SMCS-1426, 4462

i01559115

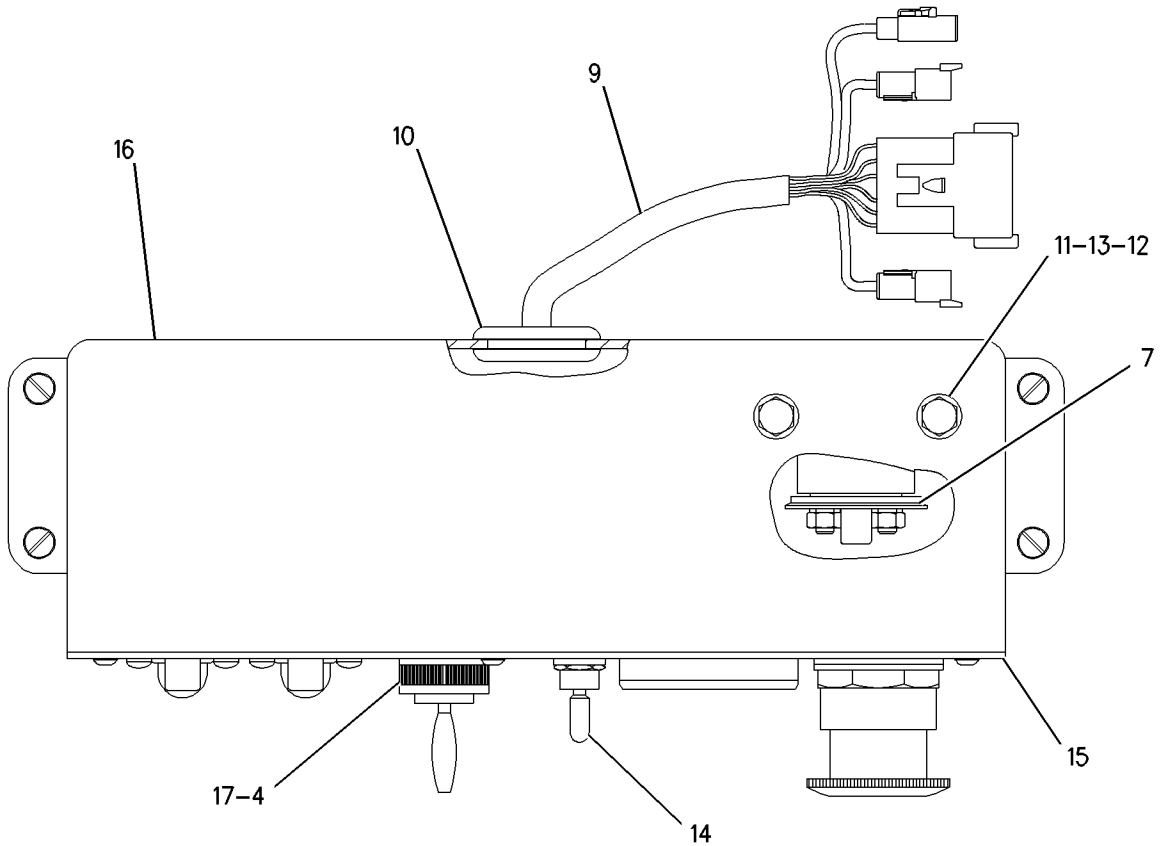
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9W-1494	1	KIT-SERVICE METER (INCLUDES SERVICE METER AND SERVICE FILM)						
	2	1	111-1325	1	BLOCK-CONTACT						
	3	1	109-6507	1	SWITCH AS-PUSH (SECONDARY STOP)						
	4	1	3E-0156	1	SWITCH GP-START						
		1	6V-8362	1	SCREW-MACHINE (8-32X0.31 IN)						
		1	7T-6799	1	NUT-MOUNTING (1-32 THD)						
		1	9B-7233	1	LOCKWASHER						
	5	1	2N-2371	1	LAMP AS-INDICATOR						
		1	2V-7088	1	LENS-RED						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27 THD)						
M		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875 IN)						
	6	1	6T-3643	2	CIRCUIT BREAKER AS (15 AMP) (EACH INCLUDES)						
		1	6V-8376	2	SCREW-MACHINE (8-32X0.25 IN)						
		1	9B-7233	2	LOCKWASHER						
	7	1	125-1303	1	SWITCH AS-MAGNETIC (STARTING MOTOR)						
	8	1	7D-0894	6	SCREW-HEAD						
	9	1	195-1344	1	HARNESS AS-WIRING						
		1	102-8805	1	KIT-RECEPTACLE (6 PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
		1	127-5486	1	RECEPTACLE AS (1 PIN)						
		1	155-2270	1	KIT-CONNECTING PLUG (2 PIN) (INCLUDES PLUG AS AND WEDGE)						
	10	1	3K-9520	1	GROMMET						
	11	1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)						
	12	1	6V-8185	2	NUT (1/4-20 THD)						
	13	1	4M-5281	2	BOLT (1/4-20X0.750 IN)						
	14	1	110-7884	1	SWITCH AS-TOGGLE (LOW CURRENT) (SPEED CONTROL)						
		1	3L-8187	3	LOCKWASHER						
		1	6T-3631	2	NUT-HEX (15/32-32 THD)						
		1	6T-3632	1	LOCKWASHER						
		1	6T-3633	1	RING-LOCKING						
		1	6V-8374	3	SCREW-MACHINE (6-32X0.25 IN)						
	15	1	137-2133	1	PLATE						
	16	1	137-2113	1	ENCLOSURE						
	17	1	5P-8500	1	KEY						
	18	1	137-5135	2	BRACKET						
	19	1	9F-8125	8	LOCKWASHER						
	20	1	4B-1237	8	SCREW-MACHINE						
	21	1	3E-8035	4	SCREW-MACHINE						
	22	1	2N-2372	2	LAMP						
	23	1	141-9228	1	LAMP AS						
		1	2V-7087	1	LENS-AMBER						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27 THD)						
M		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875 IN)						
	24	1	142-2245	1	FILM-CONTROL PANEL						

M-METRIC PART

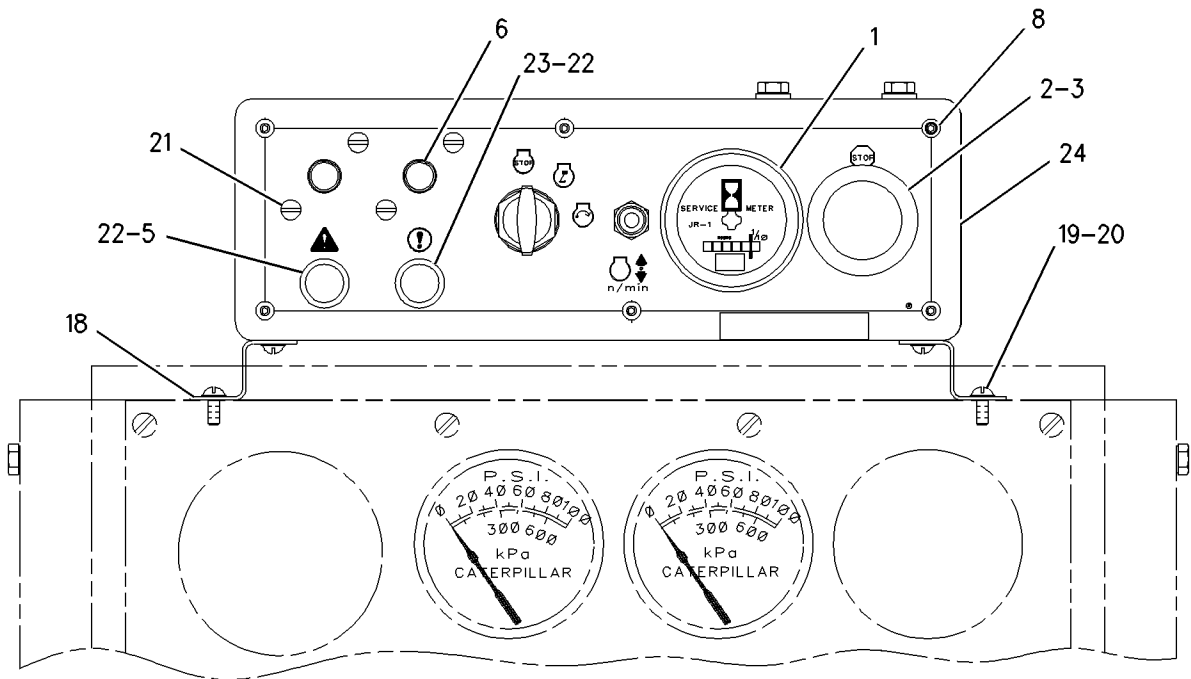
ELECTRICAL AND STARTING SYSTEM

205-8657 CONTROL GP-AUTO START/STOP (contd.)

i01559115



TOP VIEW



FRONT VIEW

GRAPHIC #1

g00788835

ELECTRICAL AND STARTING SYSTEM

178-3091 CONTROL GP-ENGINE ELECTRONIC

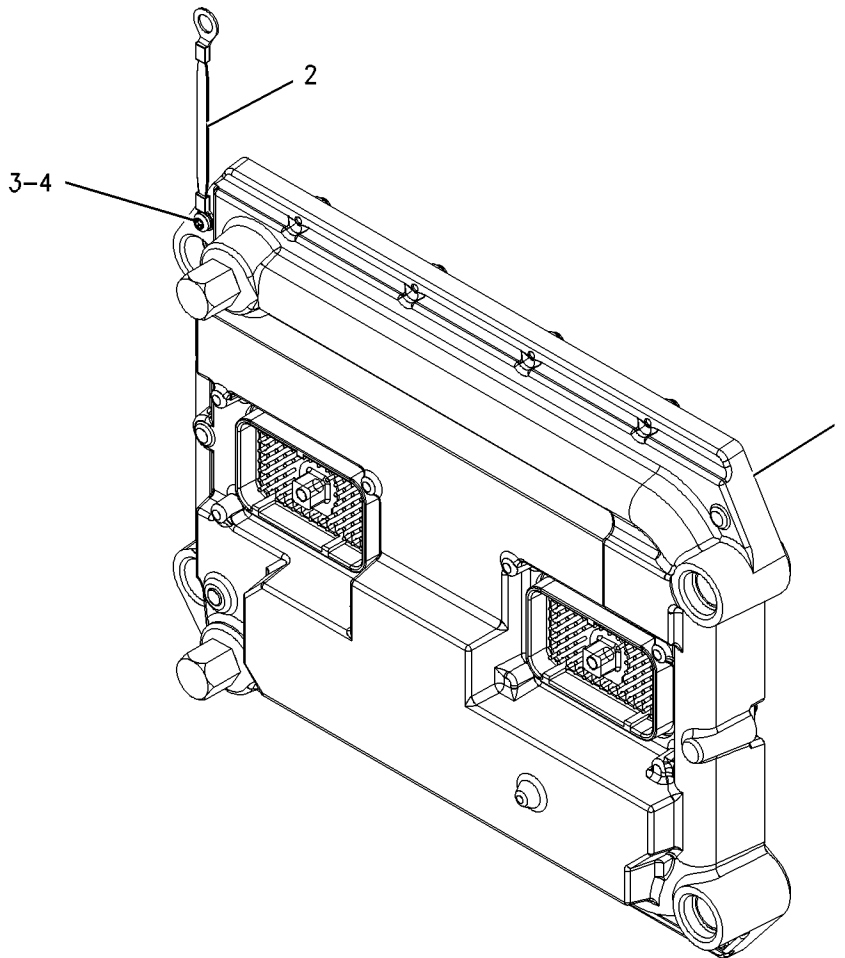
PART OF 198-1724 CONTROL & MTG GP-ENGINE ELEK

AN ATTACHMENT

SMCS-1900, 1901

i01265349

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	179-9850	1	CONTROL GP-ENGINE ELECTRONIC						
	2	1	7X-6315	1	STRAP-GROUNDING						
	3	1	134-4126	1	WASHER (.76MM THK)						
	4	1	184-2472	1	SCREW-PAN HEAD						



GRAPHIC #1

g00673185

ELECTRICAL AND STARTING SYSTEM

140-2175 CONTROL GP-REMOTE SPEED

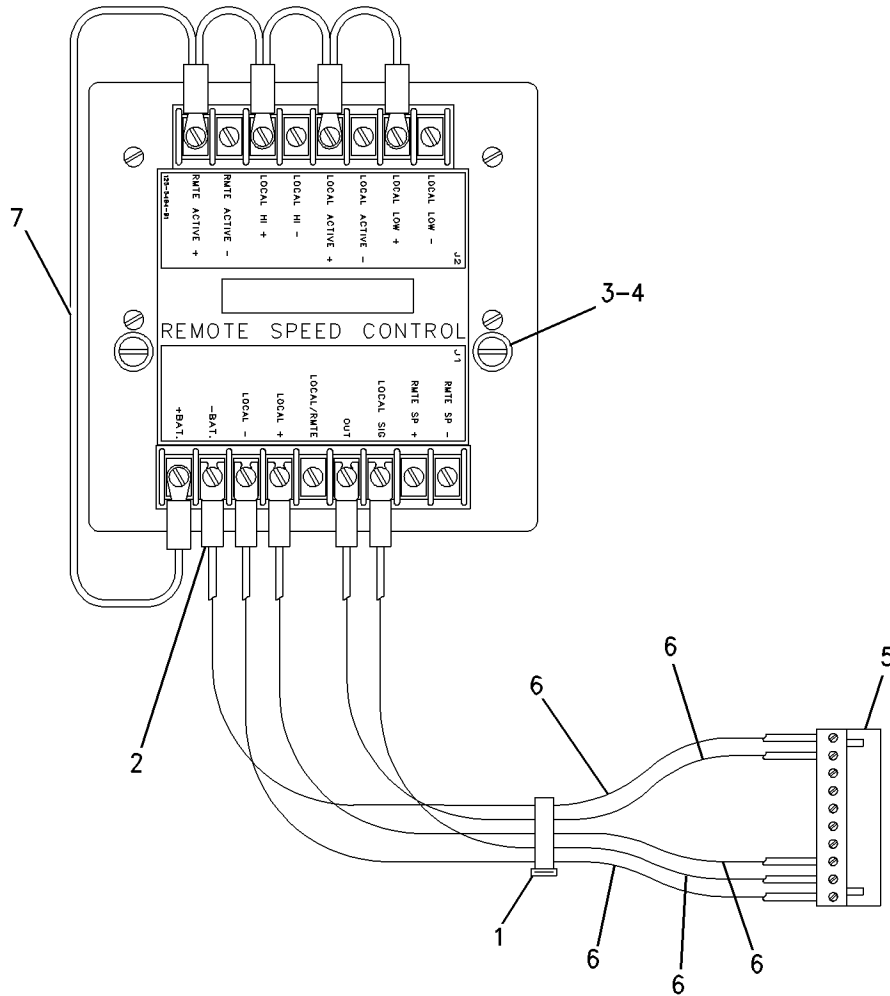
REMOTE SPEED CONTROL AN ATTACHMENT

SMCS-1907, 1915

i01380918

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8L-8413	1	STRAP-CABLE (1.12IN DIA)						
	2	1	5P-2321	5	TERMINAL (14 TO 16 GA, NO. 6 SCREW)						
	3	1	7S-1198	2	SCREW-MACHINE (8-32X1.5IN)						
	4	1	4B-4863	2	WASHER (4.7X11X1.2MM THK)						
	5	1	9X-9672	1	CONNECTOR-PLUG						
BD	6	1	5P-5677		WIRE (18 GA)						
	7	1	132-5559	1	WIRE AS						

B-USE AS REQUIRED
D-ORDER BY THE METER



GRAPHIC #1

g00730904

ELECTRICAL AND STARTING SYSTEM

142-8333 FASTENER GP-GROUND STUD

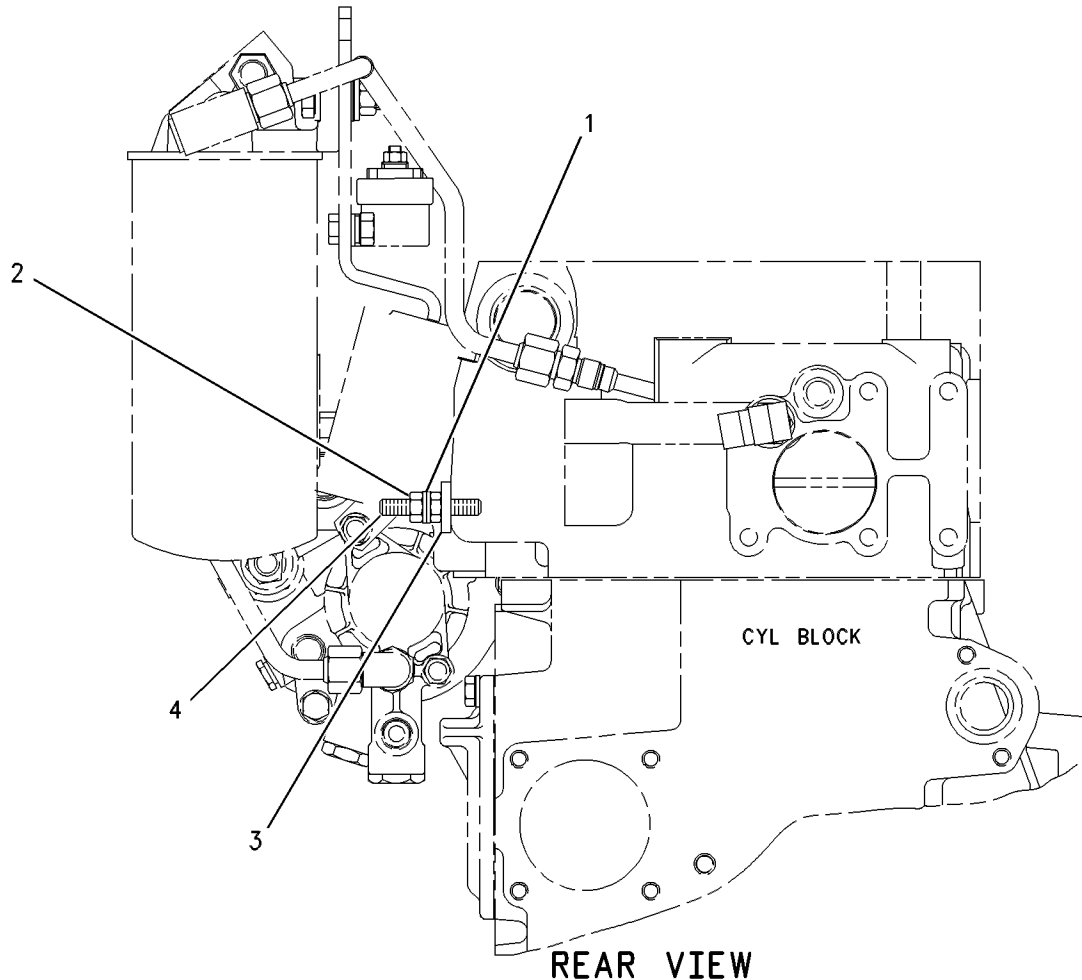
CANNOT BE USED WITH GM ENGINES
AN ATTACHMENT

SMCS-1408

i00828531

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-1974	2	WASHER-HARD (2MM THK)						
M	2	1	5P-7970	1	NUT (M8X1.25 THD)						
	3	1	6V-3964	1	WASHER-HARD						
	4	1	9X-2097	1	STUDBOLT						

M-METRIC PART



GRAPHIC #1

g00286441

ELECTRICAL AND STARTING SYSTEM

212-8693 GUARD GP-ALTERNATOR

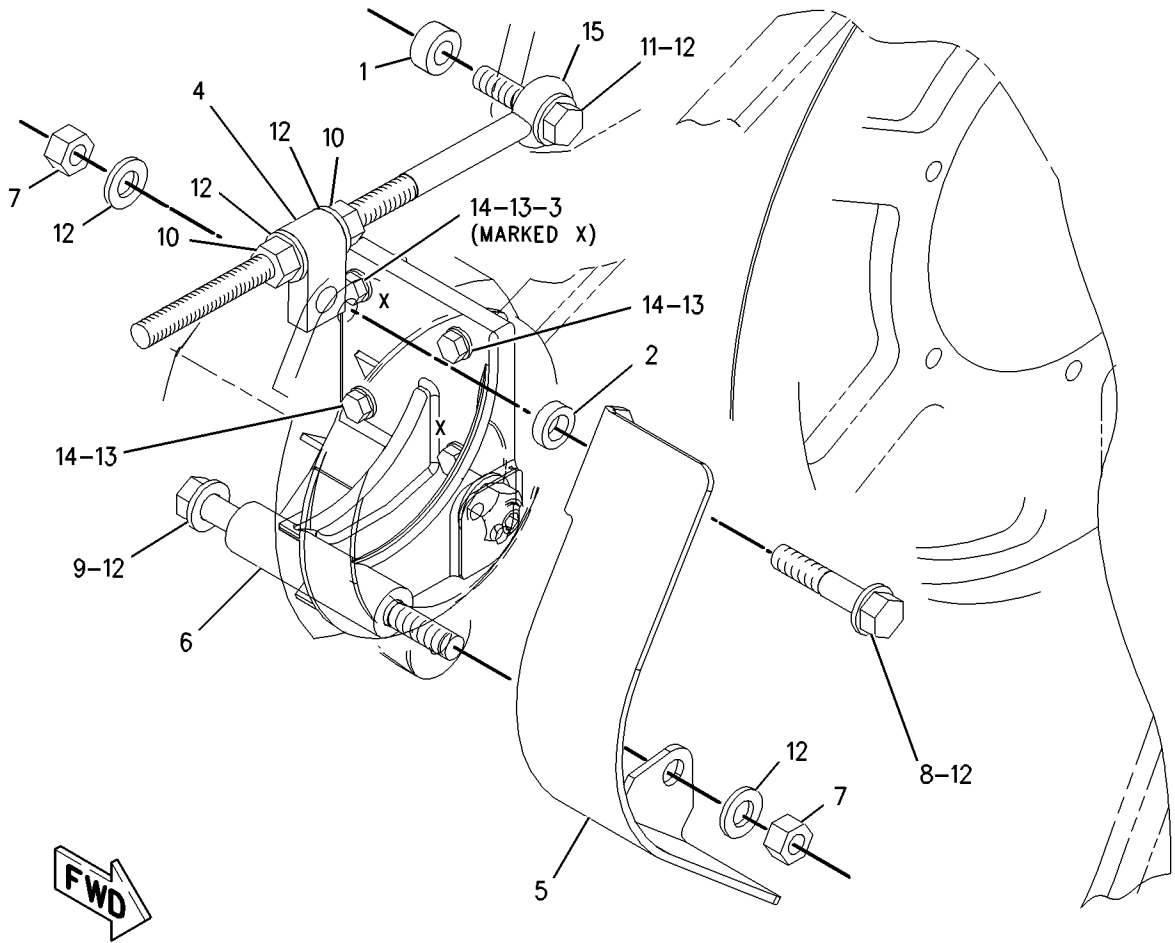
FOR USE WITH 194-1093-PAGE 157. CANNOT BE USED WITH 194-9454-PAGE 149,
197-8099-PAGE 150, 203-9715-PAGE 22
AN ATTACHMENT

SMCS-7168

i01593305

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1L-1486	1	SPACER (0.69X0.875X0.5 IN THK)						
	2	1	3J-4278	1	SPACER (13.5X22.2X6.5)						
	3	1	7W-3872	2	SLEEVE						
	4	1	9L-6329	1	BLOCK						
	5	1	143-7409	1	GUARD-ALTERNATOR						
	6	1	185-0832	1	BRACKET						
	7	1	6V-8188	2	NUT (1/2-13 THD)						
	8	1	7X-0325	1	BOLT (1/2-13X2.5 IN)						
	9	1	7X-0340	1	BOLT (1/2-13X6.5 IN)						
	10	1	7X-3374	2	NUT-FULL (1/2-20 THD)						
M	11	1	8T-4194	1	BOLT (M12X1.75X50MM)						
	12	1	8T-4223	7	WASHER-HARD (13.5X25.5X3MM THK)						
	13	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	14	1	8T-7547	4	BOLT (M8X1.25X30MM)						
	15	1	9L-5134	1	ROD-ALTERNATOR ADJUSTMENT						

M-METRIC PART



GRAPHIC #1

g00829122

ELECTRICAL AND STARTING SYSTEM

212-8694 GUARD GP-ALTERNATOR

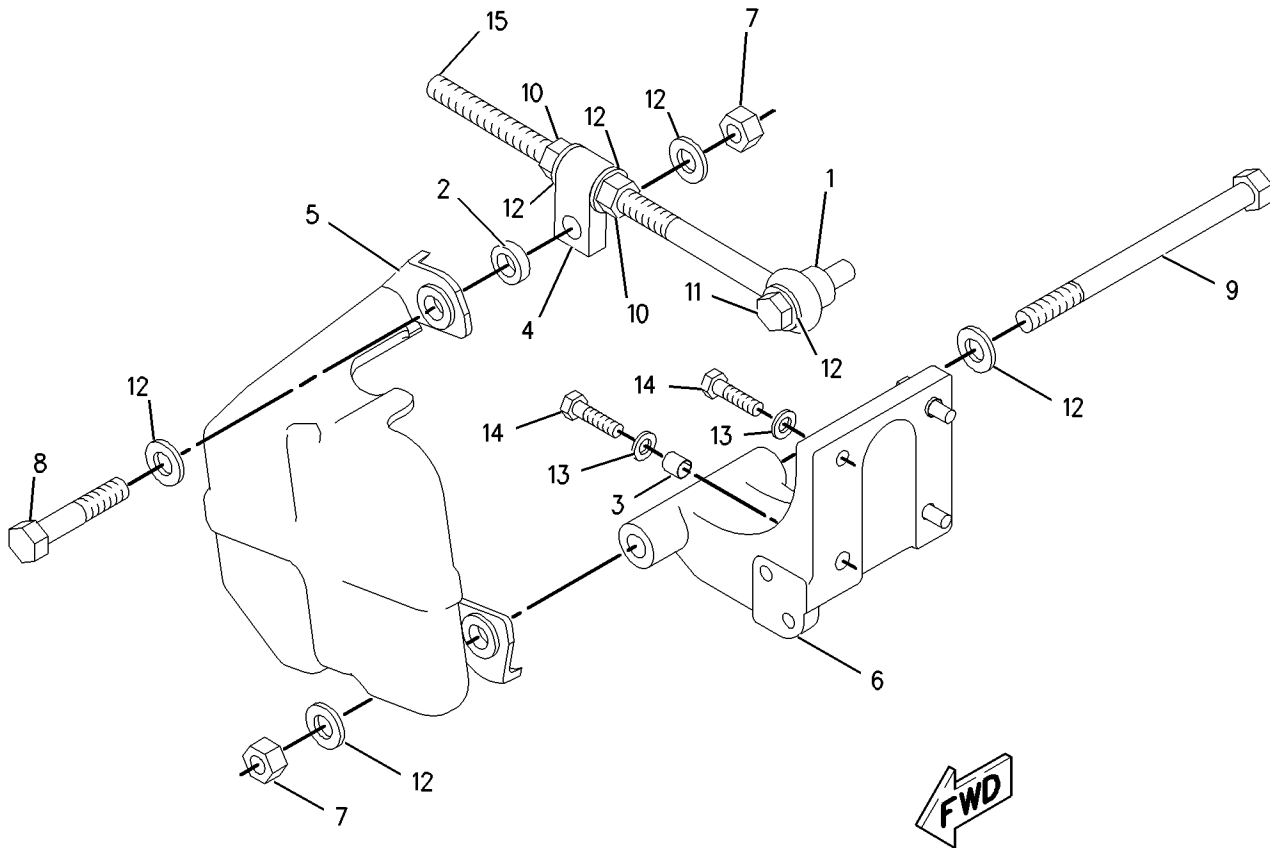
FOR USE WITH 3E-7577-PAGE 374, 4N-3986-PAGE 378, 9X-7803-PAGE 392,
100-5047-PAGE 398, 194-1093-PAGE 157. CANNOT BE USED WITH 194-9454-PAGE 149,
197-8099-PAGE 150, 203-9715-PAGE 22
AN ATTACHMENT

SMCS-7168

i01593307

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1L-1486	1	SPACER (0.69X0.875X0.5 IN THK)						
	2	1	3J-4278	1	SPACER (13.5X22.2X6.5)						
	3	1	7W-3872	2	SLEEVE						
	4	1	9L-6329	1	BLOCK						
	5	1	115-0635	1	GUARD-ALTERNATOR						
	6	1	185-0832	1	BRACKET						
	7	1	6V-8188	2	NUT (1/2-13 THD)						
	8	1	7X-0325	1	BOLT (1/2-13X2.5 IN)						
	9	1	7X-0340	1	BOLT (1/2-13X6.5 IN)						
	10	1	7X-3374	2	NUT-FULL (1/2-20 THD)						
M	11	1	8T-4194	1	BOLT (M12X1.75X50MM)						
	12	1	8T-4223	7	WASHER-HARD (13.5X25.5X3MM THK)						
	13	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	14	1	8T-7547	4	BOLT (M8X1.25X30MM)						
	15	1	9L-5134	1	ROD-ALTERNATOR ADJUSTMENT						

M-METRIC PART



GRAPHIC #1

g00827609

ELECTRICAL AND STARTING SYSTEM

212-8695 GUARD GP-ALTERNATOR

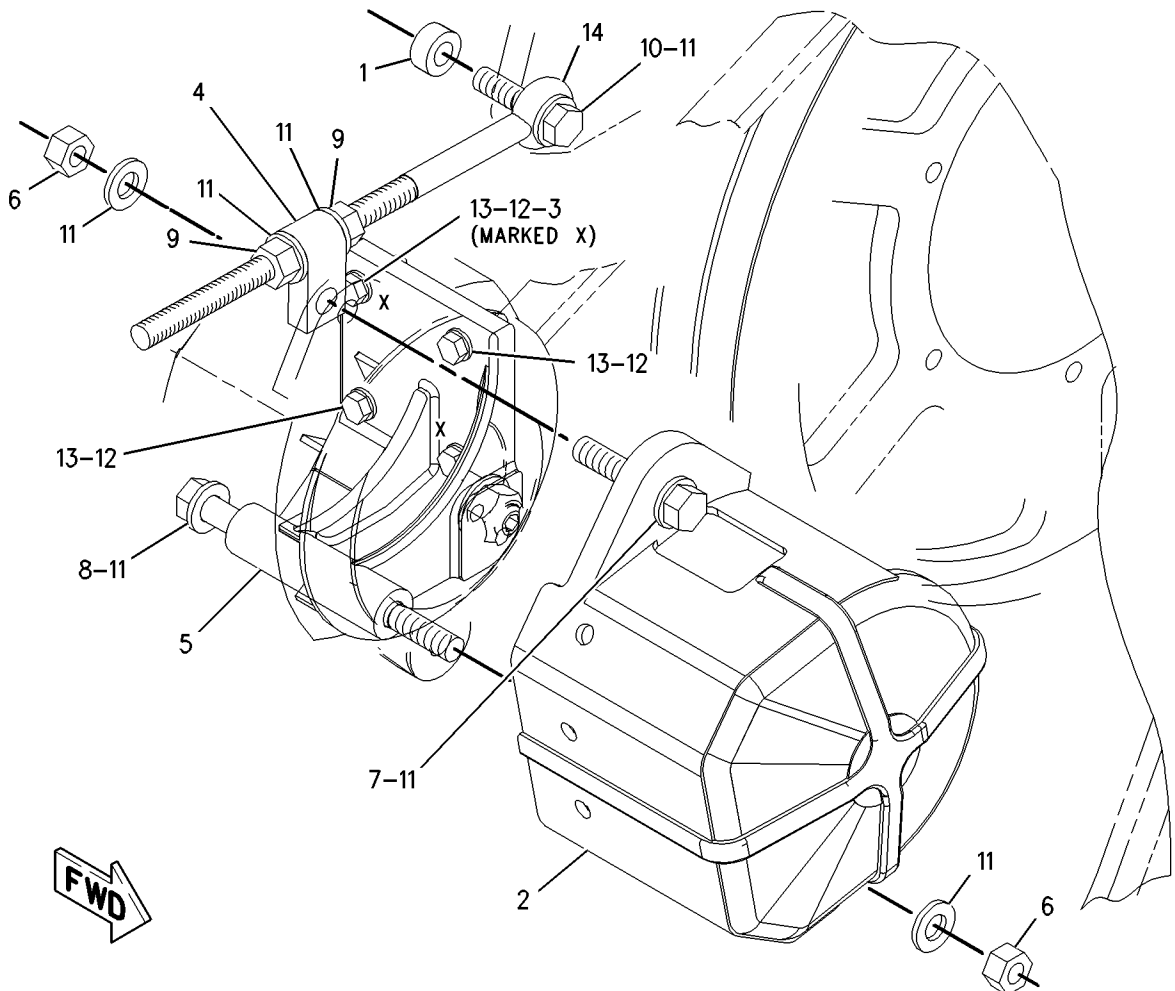
FOR USE WITH 5N-5692-PAGE 382, 7G-7889-PAGE 386, 107-7977-PAGE 400,
121-4134-PAGE 404, 125-9597-PAGE 406, 194-1093-PAGE 157. CANNOT BE USED WITH
194-9454-PAGE 149, 197-8099-PAGE 150, 203-9715-PAGE 22
AN ATTACHMENT

SMCS-7168

i01593316

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1L-1486	1	SPACER (0.69X0.875X0.5 IN THK)						
	2	1	7E-8695	1	GUARD-ALTERNATOR						
	3	1	7W-3872	2	SLEEVE						
	4	1	9L-6329	1	BLOCK						
	5	1	185-0832	1	BRACKET						
	6	1	6V-8188	2	NUT (1/2-13 THD)						
	7	1	7X-0325	1	BOLT (1/2-13X2.5 IN)						
	8	1	7X-0340	1	BOLT (1/2-13X6.5 IN)						
	9	1	7X-3374	2	NUT-FULL (1/2-20 THD)						
M	10	1	8T-4194	1	BOLT (M12X1.75X50MM)						
	11	1	8T-4223	7	WASHER-HARD (13.5X25.5X3MM THK)						
	12	1	8T-4224	4	WASHER-HARD (8.8X16X2MM THK)						
M	13	1	8T-7547	4	BOLT (M8X1.25X30MM)						
	14	1	9L-5134	1	ROD-ALTERNATOR ADJUSTMENT						

M-METRIC PART



GRAPHIC #1

g00828892

ELECTRICAL AND STARTING SYSTEM

160-1050 HARNESS AS-INSTRUMENT PANEL

FOR USE WITH ELECTRONIC MONITORING SYSTEM (EMS) MAIN UNIT, EMS TACHOMETER, OR
INDUSTRIAL EMS QUAD GAUGE
AN ATTACHMENT

SMCS-1408, 7451

i01581817

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	155-2271	1	KIT-CONNECTING PLUG (4 PIN) (INCLUDES PLUG AS & WEDGE)						
	155-2274	1	KIT-CONNECTING PLUG (6 PIN) (INCLUDES PLUG AS & WEDGE)						
	155-2265	2	KIT-CONNECTING PLUG (8 PIN) (INCLUDES PLUG AS & WEDGE)						
	155-2255	1	KIT-CONNECTING PLUG (12 PIN) (INCLUDES PLUG AS & WEDGE)						
	102-8806	1	KIT-RECEPTACLE (8 PIN) (INCLUDES RECEPTACLE AS & WEDGE)						
	102-8801	1	KIT-RECEPTACLE (12 PIN) (INCLUDES RECEPTACLE AS & WEDGE)						
	8T-9834	1	PLUG AS-CONNECTOR (40 PIN)						
	3E-4367	1	RING-RETAINING						
M	3E-8557	1	BOLT (M5X0.8X39.37MM)						
	9X-3132	2	SEAL-CONNECTOR						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

137 - 1590 HARNESS AS-WIRING

PART OF 144-3924 WIRING GP-ENGINE

AN ATTACHMENT

SMCS - 1408

i01582074

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	155-2270	1	KIT-CONNECTING PLUG (2 PIN)						
			(INCLUDES PLUG AS AND WEDGE)						
	155-2260	1	KIT-CONNECTING PLUG (3 PIN)						
			(INCLUDES PLUG AS AND WEDGE)						
	155-2255	1	KIT-CONNECTING PLUG (12 PIN)						
			(INCLUDES PLUG AS AND WEDGE)						
	8T-9834	1	PLUG AS-CONNECTOR (40 PIN)						

ELECTRICAL AND STARTING SYSTEM

4P-1479 HEATER GP-AIR INLET

12 VOLT. TUNED INLET

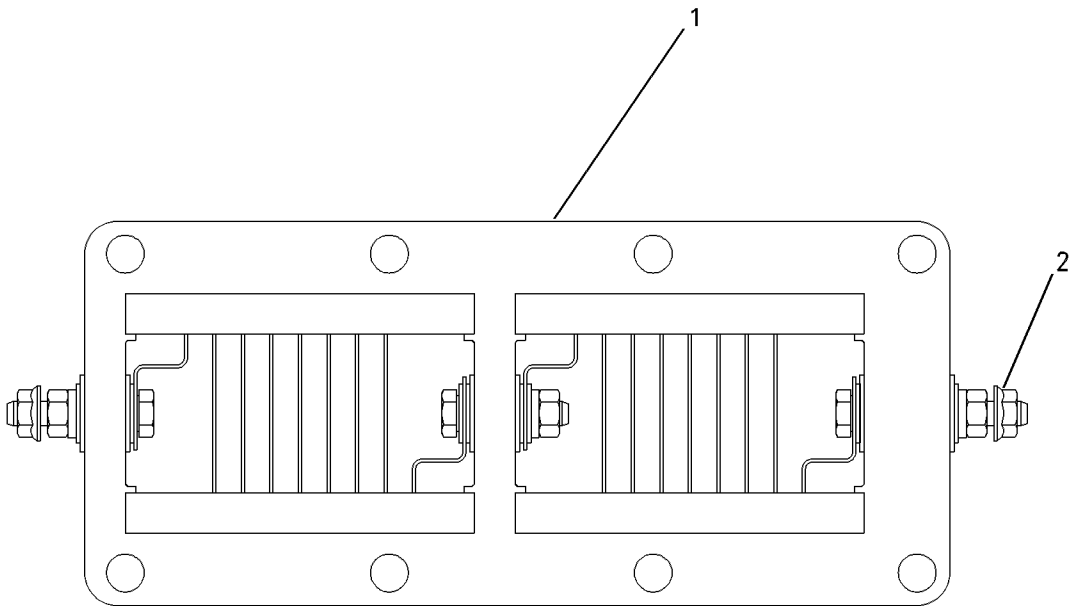
ALSO AN ATTACHMENT

SMCS-1090

i01202486

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	155-4911	1	HEATER AS						
B		1	1U-8846		SEALANT						
	2	1	9X-8256	2	WASHER (2MM THK)						
M		1	5C-2890	2	NUT (M6X1.00 THD)						

B- USE AS REQUIRED
M- METRIC PART



GRAPHIC #1

g00459699

ELECTRICAL AND STARTING SYSTEM

118-7284 HEATER GP-AIR INLET

24 VOLT

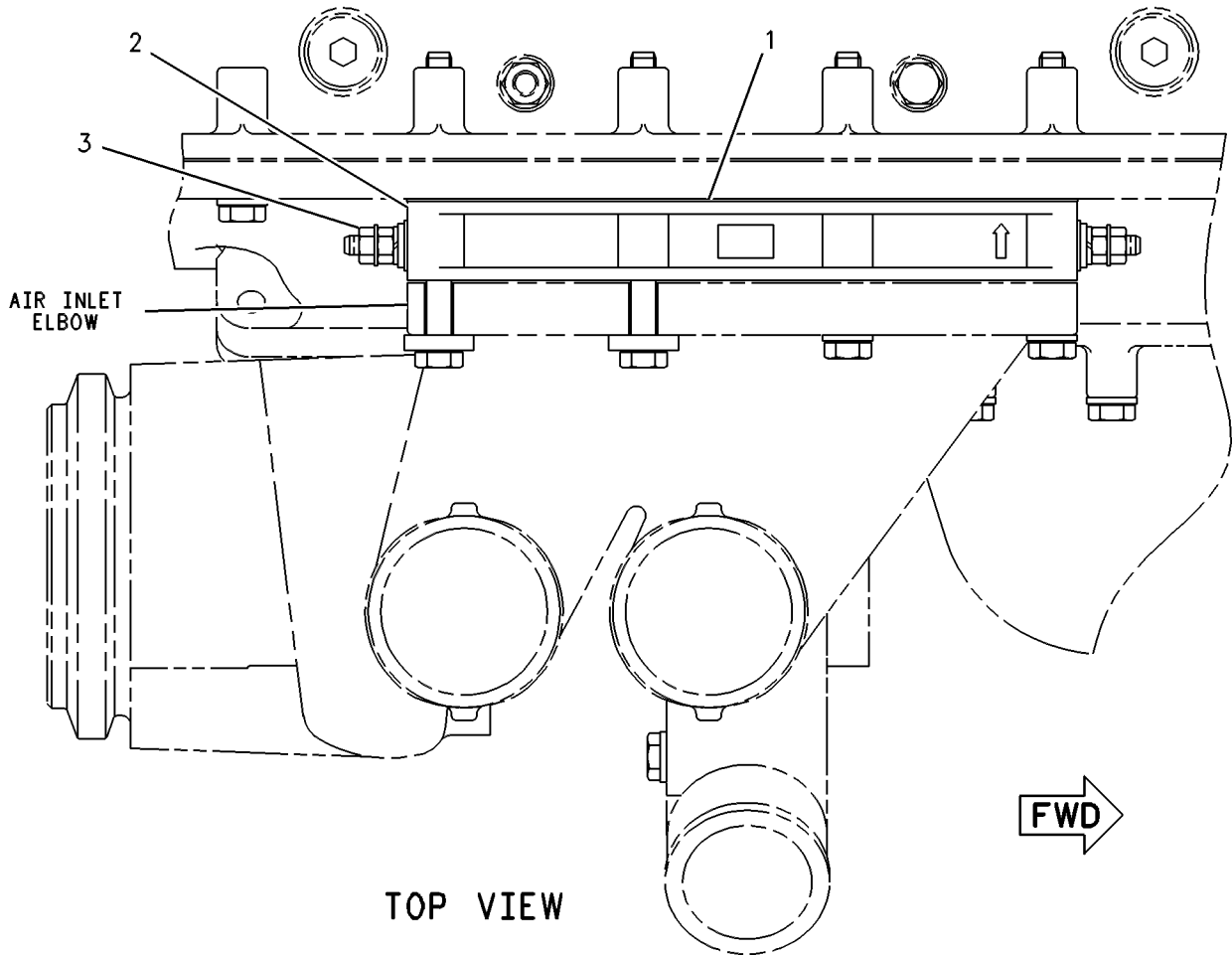
FOR USE WITH 6I-4991-PAGE 470
AN ATTACHMENT

SMCS-1090

i01354391

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	1U-8846		SEALANT						
	2	1	159-3537	1	HEATER AS						
M	3	1	5C-2890	2	NUT (M6X1 THD)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00250922

ELECTRICAL AND STARTING SYSTEM

121-4390 HEATER GP-JACKET WATER

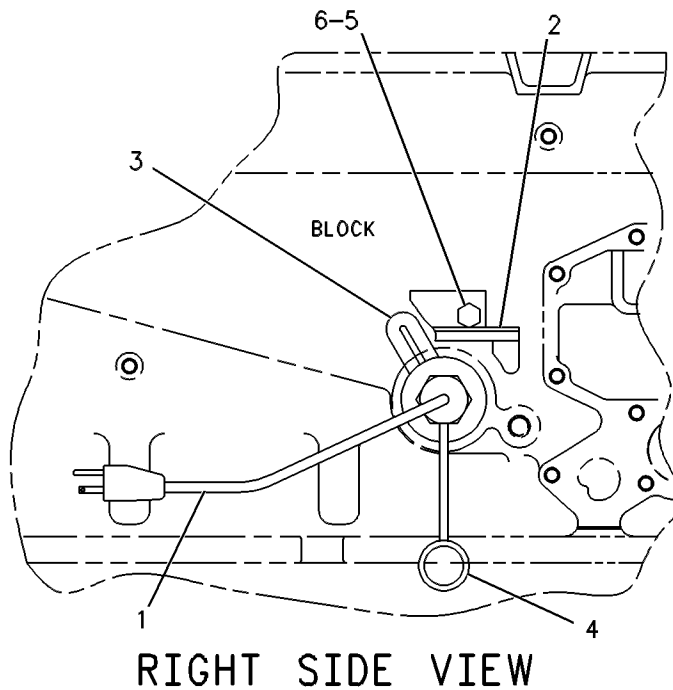
120 VOLT UNIT, 1000 WATTS. REAR EXHAUST
FOR USE WITH EXHAUST TO REAR TURBO
AN ATTACHMENT

SMCS-1383

i01272183

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9N-5253	1	CORD AS-HEATER						
	2	1	4P-2949	1	SHIELD-HEAT						
	3	1	124-0686	1	ELEMENT AS-JACKET WATER HEATER						
		1	133-6517	1	CAP AS-DUST						
		1	132-1448	1	KIT-SEAL (JACKET WATER HEATER)						
M	5	1	8T-4200	1	BOLT (M8X1.25X16MM)						
	6	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART



GRAPHIC #1

g00254562

ELECTRICAL AND STARTING SYSTEM

132-2457 HEATER GP-JACKET WATER

240 VAC

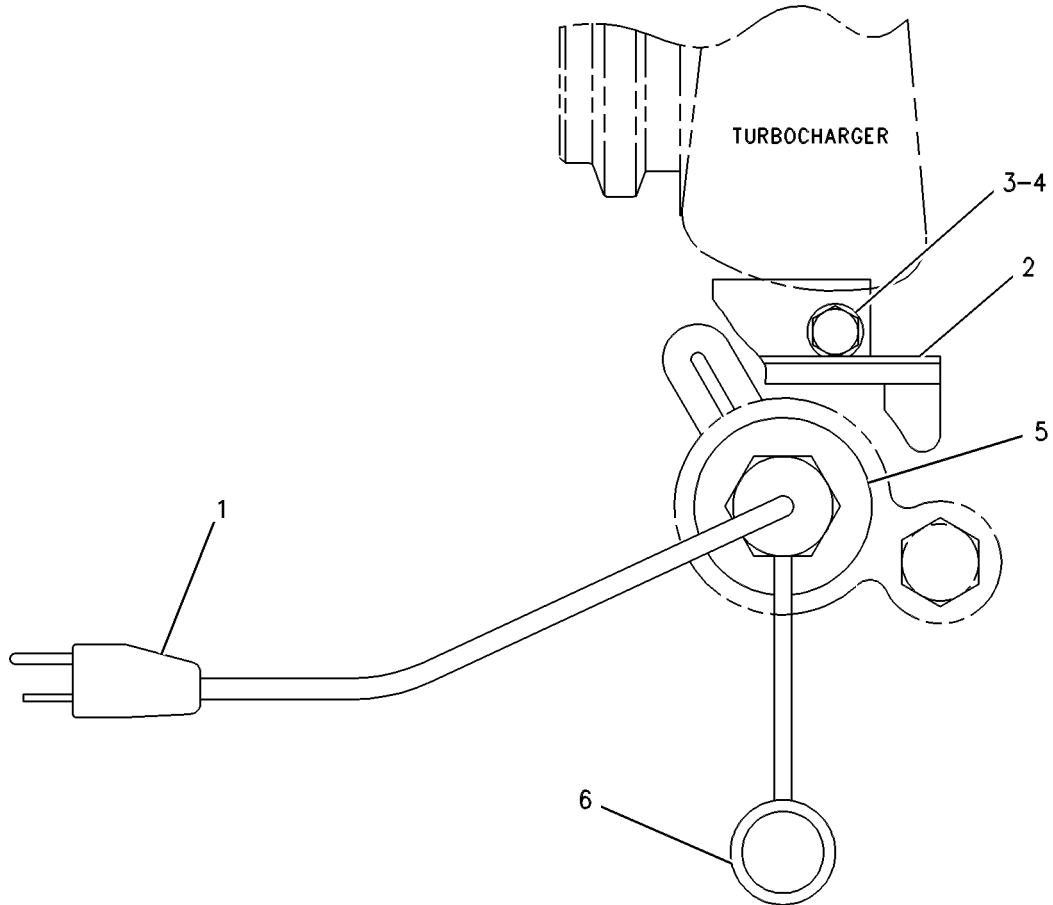
FOR USE WITH EXHAUST TO REAR TURBOCHARGERS. CANNOT BE USED WITH LH MTD OIL FILTER
AN ATTACHMENT

SMCS-1383

i00733617

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-8227	1	CORD AS-HEATER						
	2	1	4P-2949	1	SHIELD-HEAT						
M	3	1	8T-4200	1	BOLT (M8X1.25X16MM)						
	4	1	8T-4224	1	WASHER-HARD (2MM THK)						
	5	1	124-0687	1	ELEMENT AS-JACKET WATER HEATER						
	6	1	133-6517	1	CAP AS-DUST						
		1	132-1448	1	KIT-SEAL						

M-METRIC PART



GRAPHIC #1

g00109079

ELECTRICAL AND STARTING SYSTEM

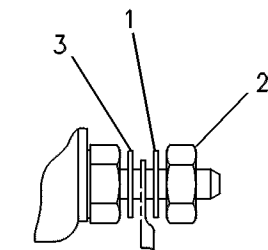
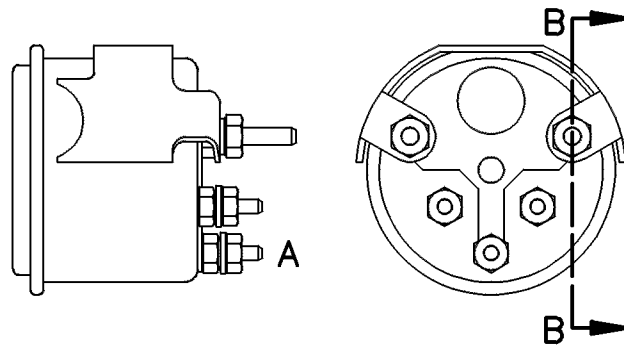
104-5687 INDICATOR AS-VOLT

12 VOLT
AN ATTACHMENT

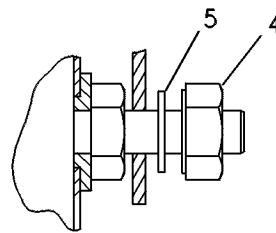
SMCS-7468

i01455111

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4B-5324	2	WASHER (3.9X9.6X1.2MM THK)						
	2	1	6V-8368	2	NUT (6-32 THD)						
	3	1	3L-8187	2	LOCKWASHER						
	4	1	4B-2043	2	NUT (8-32 THD)						
	5	1	9B-7233	2	LOCKWASHER						



VIEW OF AREA A



SECTION B-B

GRAPHIC #1

g00236444

ELECTRICAL AND STARTING SYSTEM

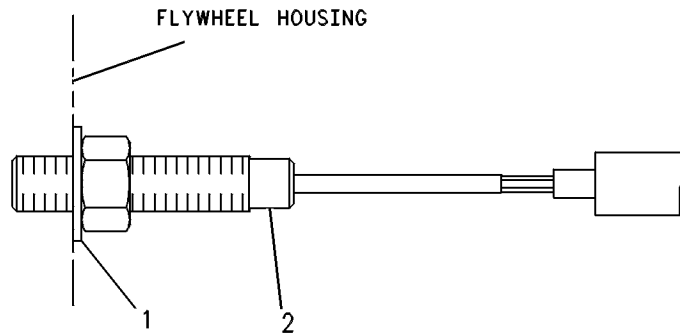
117-4739 MAGNETIC PICKUP GP

TACHOMETER
AN ATTACHMENT

SMCS-1905, 1907

i01330299

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4B-4281	1	WASHER (2.5MM THK)						
	2	1	3E-7886	1	SENSOR AS-SPEED (ENGINE)						
		1	7N-7779	1	SOCKET-CONNECTOR						
		1	7N-7780	1	PIN-CONNECTOR (BLADE)						
		1	7N-9738	1	HOUSING-RECEPTACLE						
		1	9X-1386	14	SLEEVE (2CM)						



GRAPHIC #1

g00243869

ELECTRICAL AND STARTING SYSTEM

145-4925 MOUNTING GP-SOLENOID

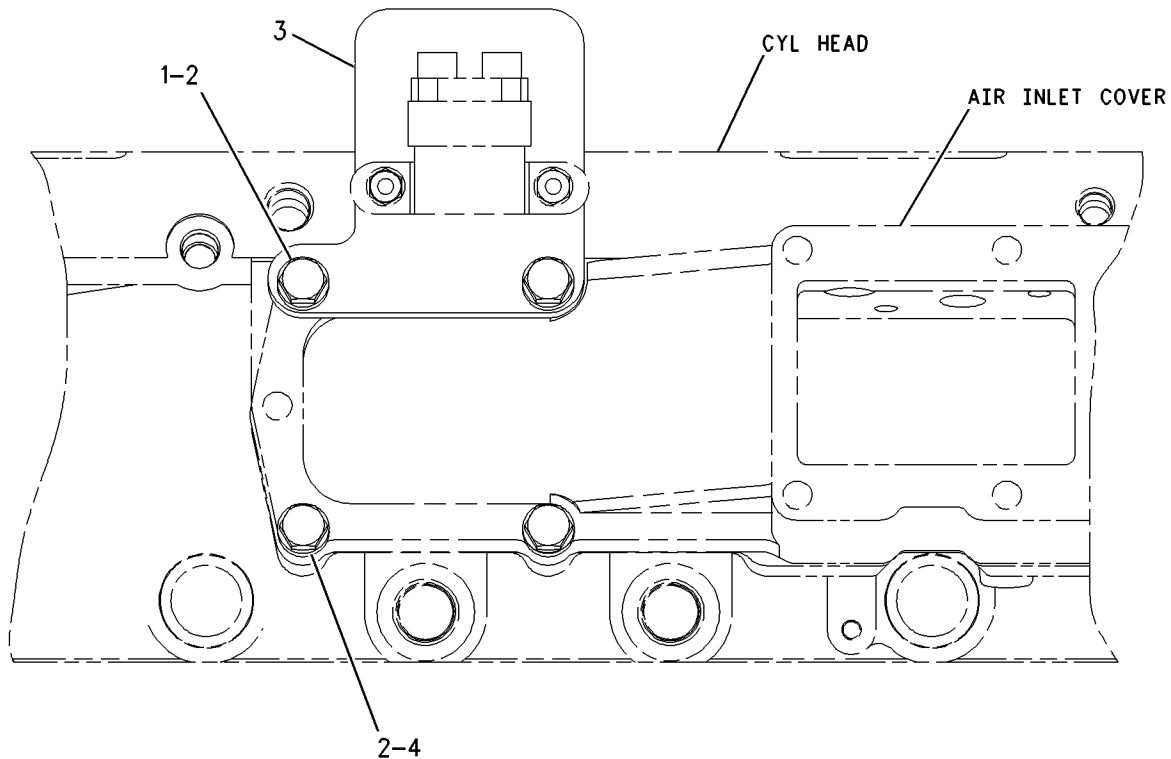
PROVIDES MOUNTING BRACKET FOR AIR INLET HEATER RELAY
FOR USE WITH REMOTE MOUNTED FUEL FILTER. CANNOT BE USED WITH STANDARD FUEL FILTER
BASE

SMCS-1259, 1467

i01574840

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6V-5218	2	BOLT (M8X1.25X35MM)						
	2	1	9M-1974	4	WASHER-HARD (8.8X16X2MM THK)						
	3	1	145-4926	1	BRACKET AS						
M	4	1	6V-2317	2	BOLT (M8X1.25X30MM)						

M-METRIC PART



GRAPHIC #1

g00758150

ELECTRICAL AND STARTING SYSTEM

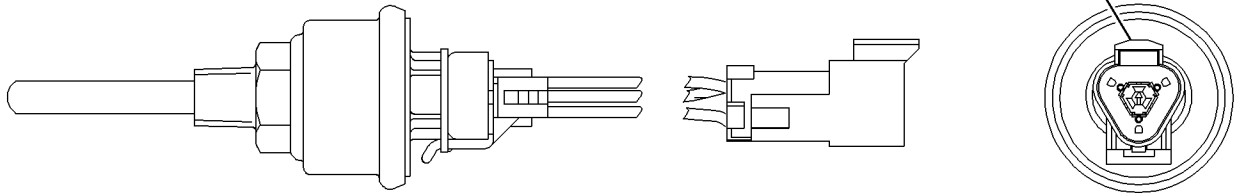
165-6634 SENSOR GP-COOLANT LEVEL

COOLANT LOSS
AN ATTACHMENT

SMCS-7422

i01575838

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	102-8803	1	KIT-RECEPTACLE (3 PIN) (COOLANT LEVEL SENSOR) (INCLUDES RECEPTACLE AS & WEDGE)						
	2	1	3E-3371	1	WEDGE-RECEPTACLE LOCK (3 PIN)						
	3	1	186-3735	3	PIN-CONNECTOR						



GRAPHIC #1

g00785629

ELECTRICAL AND STARTING SYSTEM

159-1822 SENSOR GP - ENGINE

AN ATTACHMENT

SMCS-7400

i01486436

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	130-9811	1	SENSOR GP-TEMPERATURE (INTAKE AIR)						
Y	2	1	194-6723	1	SENSOR GP-PRESSURE (INTAKE MANIFOLD)						456
Y	3	1	194-6722	1	SENSOR GP-PRESSURE (ATMOSPHERIC)						455
Y	4	1	<i>169-3300</i>	1	SENSOR GP-SPEED (TIMING)						462
	5	1	6V-5049	2	SEAL-O-RING						
Y	6	1	194-6725	2	SENSOR GP-PRESSURE (FUEL)						457
	7	1	117-1385	2	SEAL-O-RING						
Y	8	1	194-6726	1	SENSOR GP-PRESSURE (INJECTION ACTUATION)						458
	9	1	9X-0262	1	ADAPTER						
	10	1	3J-7354	2	SEAL-O-RING						
	11	1	6V-6609	1	SEAL-O-RING						
	12	1	5P-7814	1	SEAL-O-RING						
M	13	1	6V-3940	1	BOLT (M8X1.25X25MM)						
	14	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5MM THK)						
	15	1	6V-5048	2	SEAL-O-RING						
	16	1	8L-2786	1	SEAL-O-RING						
Y	17	1	191-6587	1	SENSOR GP-TEMPERATURE (OIL)						465
	18	1	3S-2093	1	STRAP-CABLE						
	19	1	130-9811	1	SENSOR GP-TEMPERATURE (COOLANT)						

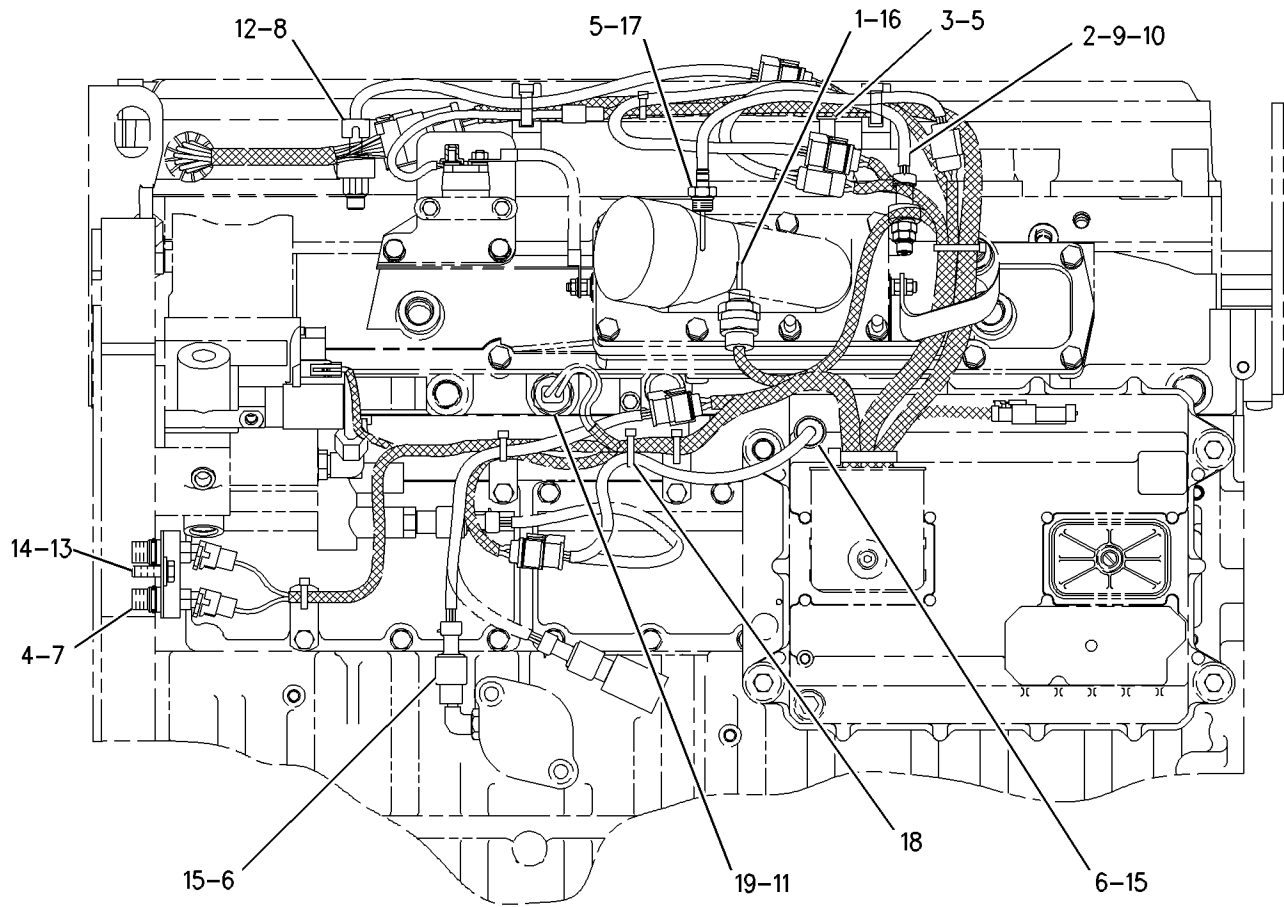
M- METRIC PART

Y- SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

159-1822 SENSOR GP-ENGINE (contd.)

i01486436



LEFT SIDE VIEW

GRAPHIC #1

g00773318

ELECTRICAL AND STARTING SYSTEM

202-2371 SENSOR GP - ENGINE

FOR USE WITH 201-5949-PAGE 350, 190-5038-PAGE 522

ALSO AN ATTACHMENT

SMCS-7400

i01533012

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	130-9811	1	SENSOR GP-TEMPERATURE (INTAKE AIR)						
	1A	1	130-9811	1	SENSOR GP-TEMPERATURE (COOLANT)						
Y	2	1	194-6722	1	SENSOR GP-PRESSURE (ATMOSPHERIC)						455
Y	3	1	194-6723	1	SENSOR GP-PRESSURE (INTAKE MANIFOLD)						456
Y	4	1	169-3300	1	SENSOR GP-SPEED (TIMING)						462
	5	1	6V-5049	2	SEAL-O-RING						
	6	1	117-1385	2	SEAL-O-RING						
	7	1	9X-0262	1	ADAPTER						
	8	1	3J-7354	3	SEAL-O-RING						
	9	1	6V-6609	2	SEAL-O-RING						
M	10	1	6V-3940	1	BOLT (M8X1.25X25MM)						
	11	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5MM THK)						
	12	1	6V-5048	1	SEAL-O-RING						
Y	13	1	191-6587	1	SENSOR GP-TEMPERATURE (OIL)						465
	14	1	141-5147	1	ADAPTER						
	17	1	1J-9671	1	SEAL-O-RING						
Y	18	1	194-6725	2	SENSOR GP-PRESSURE (OIL)						457
Y	19	1	194-6726	1	SENSOR GP-PRESSURE (INJECTION ACTUATION)						458

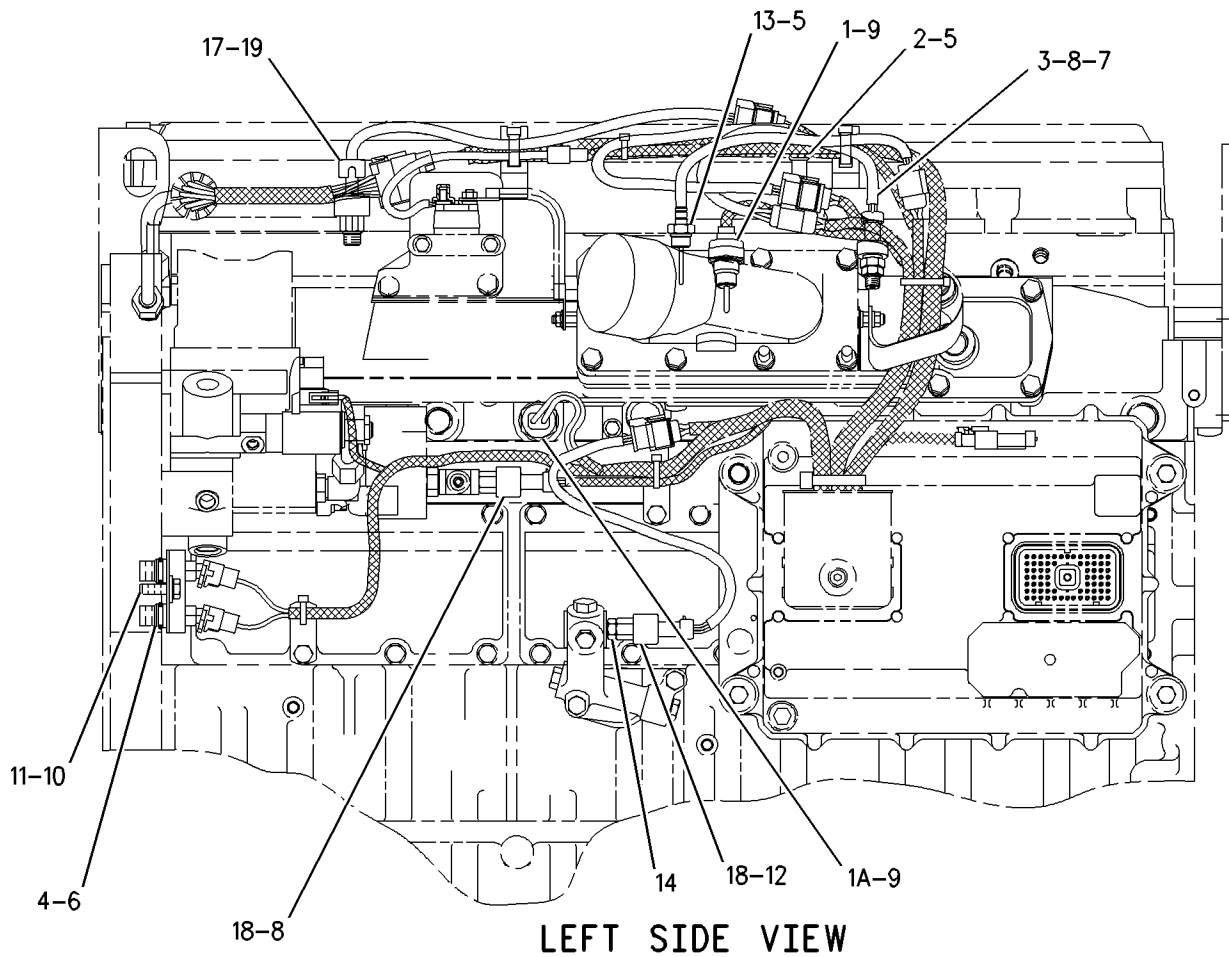
M - METRIC PART

Y - SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

202-2371 SENSOR GP-ENGINE (contd.)

i01533012



GRAPHIC #1

g00795805

ELECTRICAL AND STARTING SYSTEM

9X-9647 SENSOR GP-POSITION

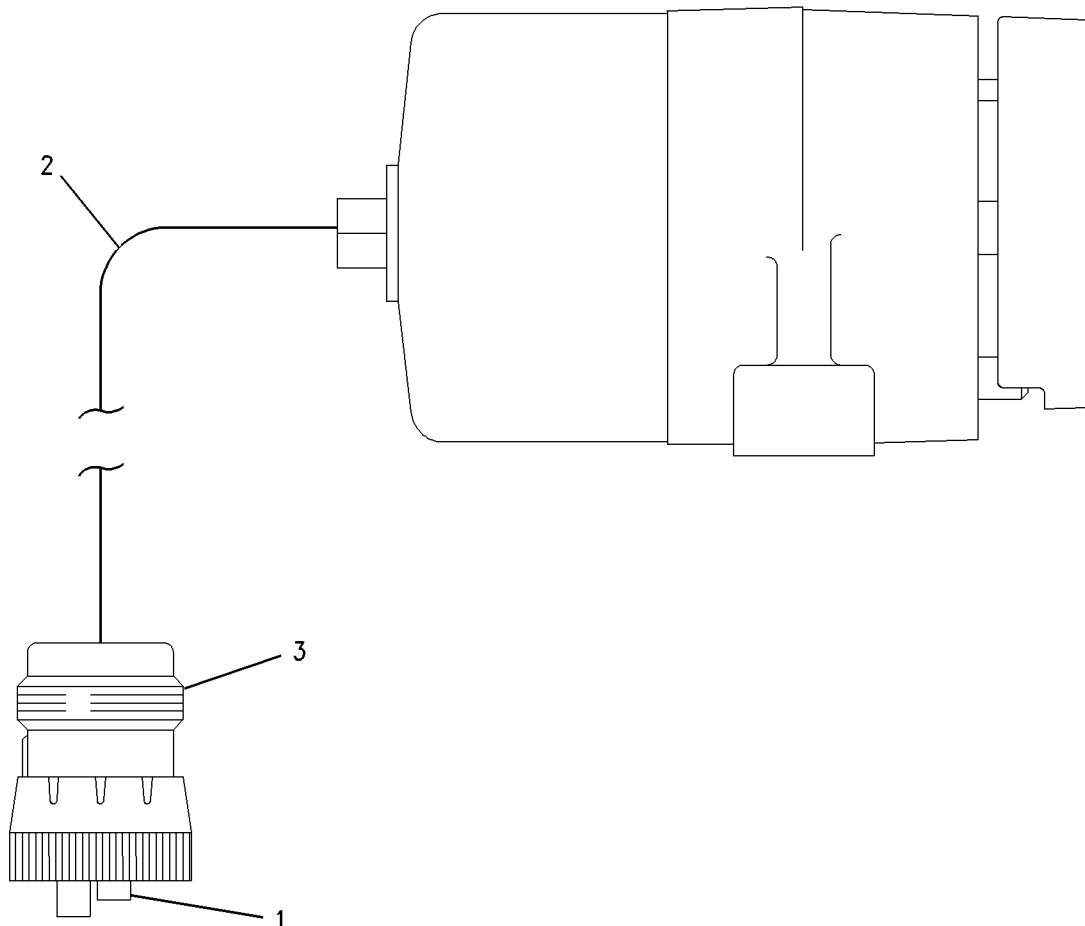
REMOTE MOUNTED
AN ATTACHMENT

SMCS-1905, 1911

i01613158

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-8730	3	SOCKET-CONNECTOR						
BE	2	1	9X-1813		SLEEVE						
	3	1	8T-8731	1	PLUG-CONNECTOR						

B- USE AS REQUIRED
E- ORDER BY THE CENTIMETER



GRAPHIC #1

g00683899

ELECTRICAL AND STARTING SYSTEM

134-0597 SENSOR GP - POSITION

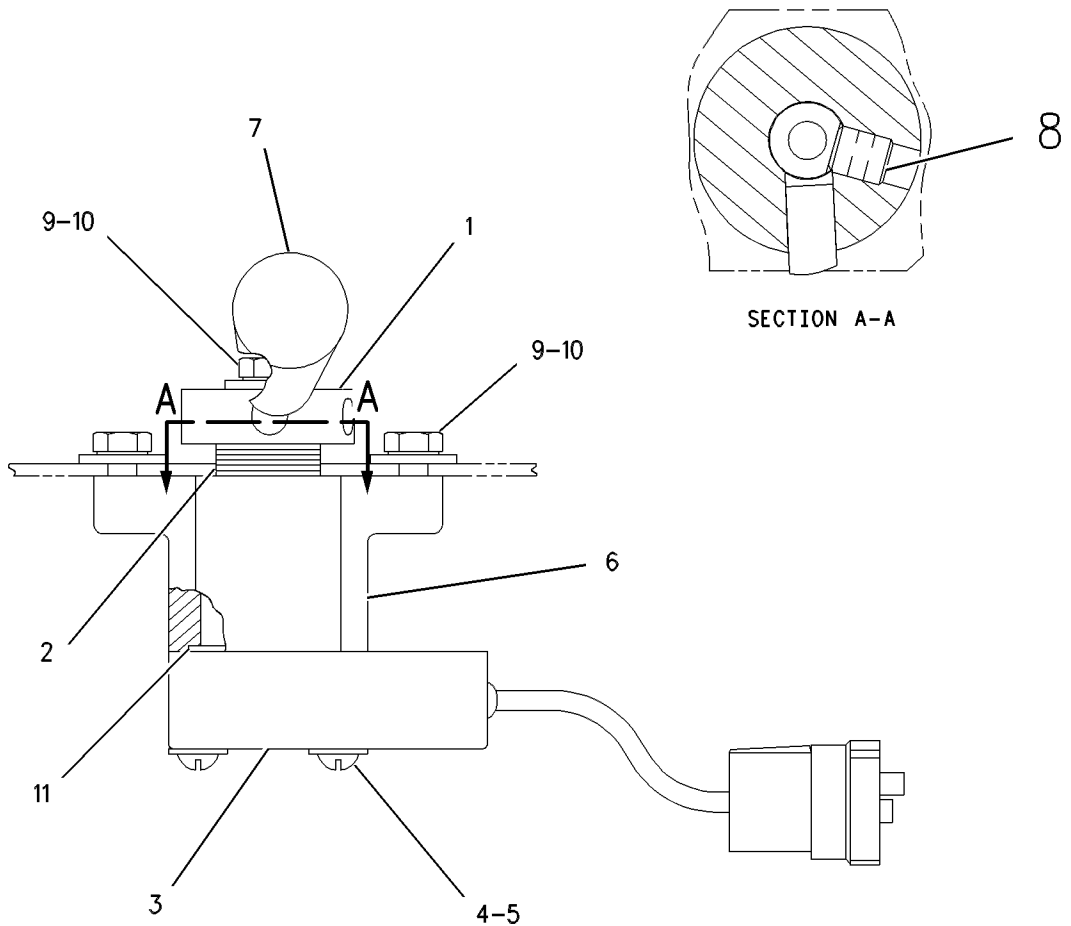
LEVER OPERATED
FOR USE WITH ELECTRONIC ENGINES
AN ATTACHMENT

SMCS-1905, 1911

i01389921

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	114-0268	1	LEVER AS						
	2	1	2N-9421	6	SPRING-DISC						
Y	3	1	161-8906	1	SENSOR GP - POSITION (ENGINE SPEED)						453
	4	1	4B-4274	2	WASHER (5.5X13X1.2MM THK)						
	5	1	2F-7888	2	SCREW-MACHINE (10-32 THD X 1.250)						
	6	1	166-0690	1	BLOCK AS-MOUNTING						
	7	1	039-7601	1	KNOB						
	8	1	8B-7179	1	SETSCREW-SOCKET (5/16-18X3/8IN)						
	9	1	031-0215	3	BOLT-LOCKING (1/4 NC X 5/8IN)						
	10	1	5P-4115	3	WASHER-HARD (7.2X19X2MM THK)						
	11	1	6V-0894	1	SEAL-O-RING (29.87MM ID)						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00579895

ELECTRICAL AND STARTING SYSTEM

134-0670 SENSOR GP - POSITION

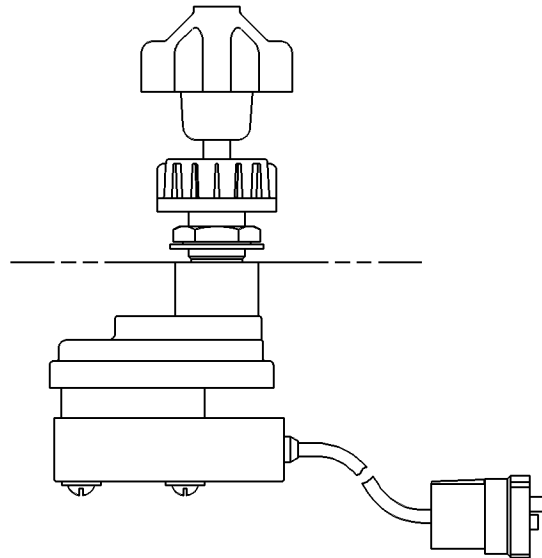
KNOB OPERATED, ENGINE SPEED
FOR USE WITH ELECTRONIC ENGINES
AN ATTACHMENT

SMCS-1905, 1911

i00700609

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	

(INDIVIDUAL PARTS ARE NOT SERVICED SEPARATELY)



GRAPHIC #1

g00263246

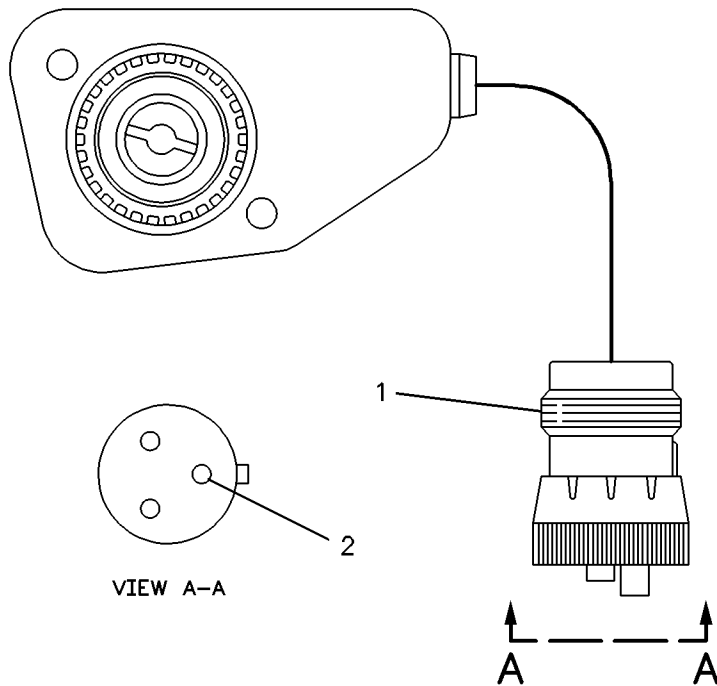
ELECTRICAL AND STARTING SYSTEM

161-8906 SENSOR GP-POSITION PART OF 134-0597 SENSOR GP-POSITION CANNOT BE USED WITH ROTARY SENSOR CONTROL GP AN ATTACHMENT

SMCS-1905, 1911

i01243225

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-8731	1	PLUG-CONNECTOR						
	2	1	8T-8730	3	SOCKET-CONNECTOR						



GRAPHIC #1

g00083170

ELECTRICAL AND STARTING SYSTEM

161-9932 SENSOR GP-PRESSURE

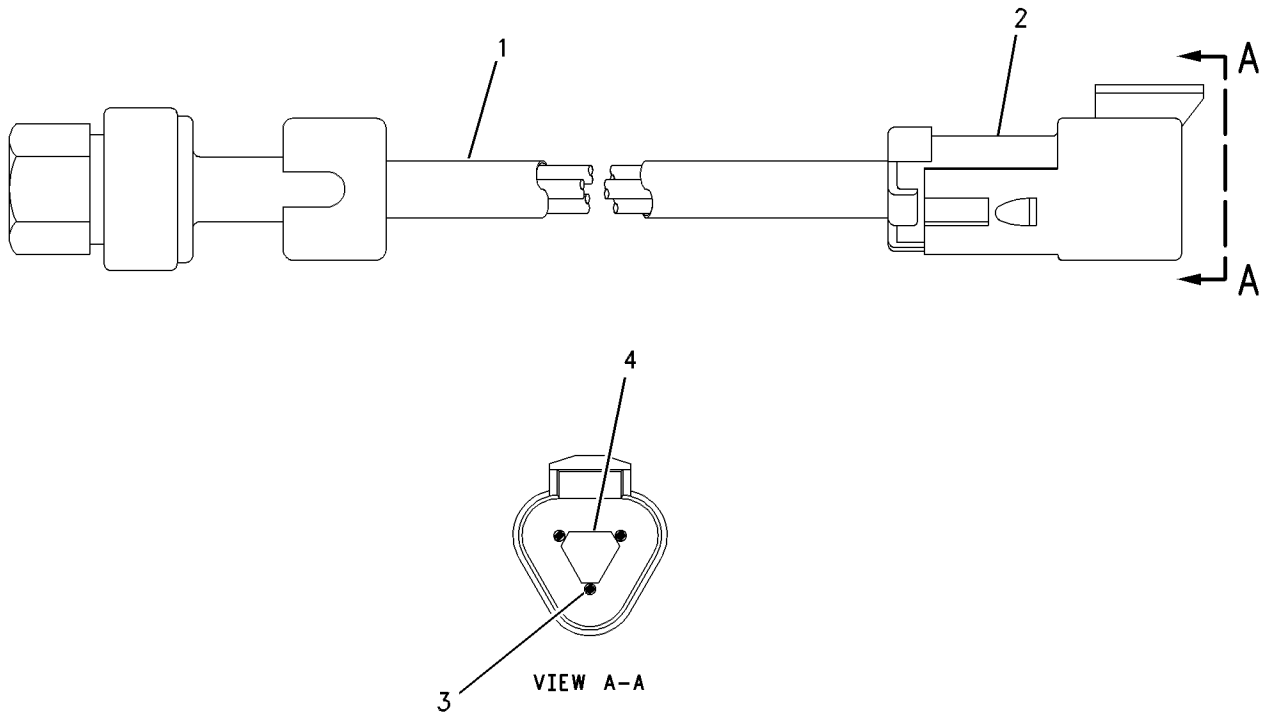
AN ATTACHMENT

SMCS-1718, 1916, 1917, 1923, 1924, 1925

i01613264

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
BE	1	1	9X-1386		SLEEVE						
	2	1	102-8803	1	KIT-RECEPTACLE (3 PIN) (INCLUDES RECEPTACLE AS. AND WEDGE)						
	3	1	9X-3401	3	PIN-CONNECTOR (FOR 16-18 GA WIRE) -OR-						
		1	126-1767	3	CONNECTOR-PIN (FOR 14 GA WIRE)						
	4	1	3E-3371	1	WEDGE-RECEPTACLE LOCK (3 PIN)						

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00612982

ELECTRICAL AND STARTING SYSTEM

194-6722 SENSOR GP - PRESSURE

PART OF 159-1822, 202-2371 SENSOR GP-ENGINE

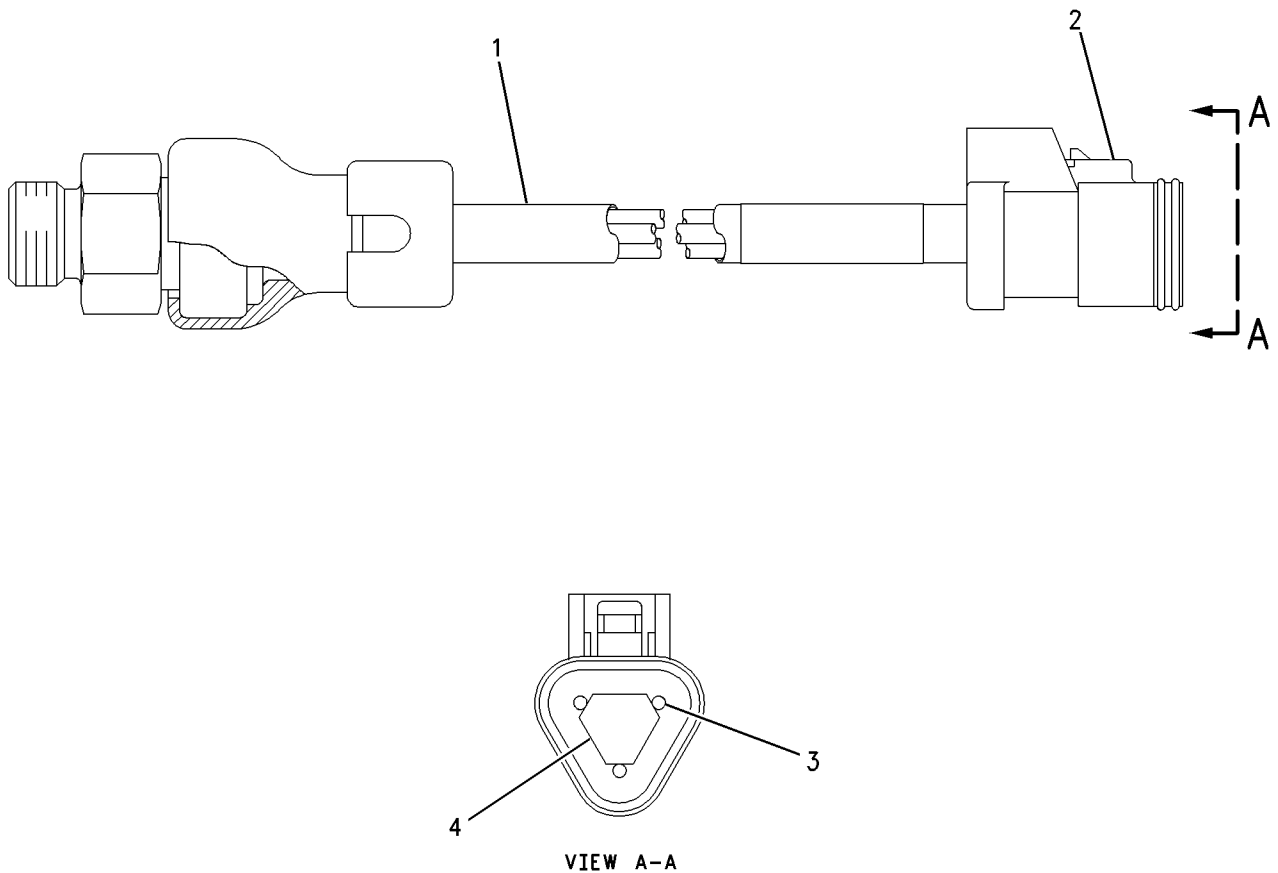
ALSO AN ATTACHMENT

SMCS-1718, 1916, 1917, 1923, 1924, 1925

i01562222

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
BE	1	1	9X-1813		SLEEVE						
	2	1	155-2260	1	KIT-CONNECTING PLUG (3 PIN) (INCLUDES PLUG AS & WEDGE)						
	3	1	180-9340	3	SOCKET-CONNECTOR						
	4	1	3E-3368	1	WEDGE-PLUG LOCK						

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00807030

ELECTRICAL AND STARTING SYSTEM

194-6723 SENSOR GP - PRESSURE

PART OF 159-1822, 202-2371 SENSOR GP-ENGINE

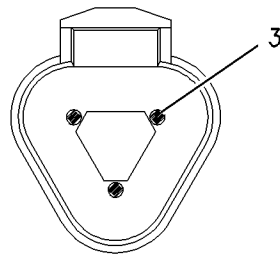
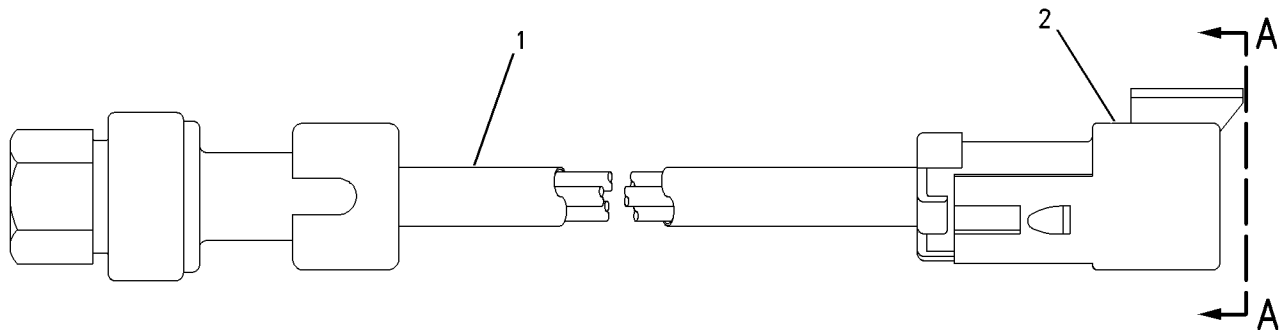
ALSO AN ATTACHMENT

SMCS-1718, 1916, 1917, 1923, 1924, 1925

i01490080

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	9X-1813		SLEEVE						
	2	1	102-8803	1	KIT-RECEPTACLE (3 PIN) (INCLUDES RECEPTACLE AS & WEDGE)						
	3	1	126-1767	3	CONNECTOR-PIN (FOR 14 GAUGE WIRE) -OR-						
		1		9X-3401	3	PIN-CONNECTOR (FOR 16-18 GAUGE WIRE)					

B-USE AS REQUIRED



VIEW A-A

GRAPHIC #1

g00759648

ELECTRICAL AND STARTING SYSTEM

194-6725 SENSOR GP - PRESSURE

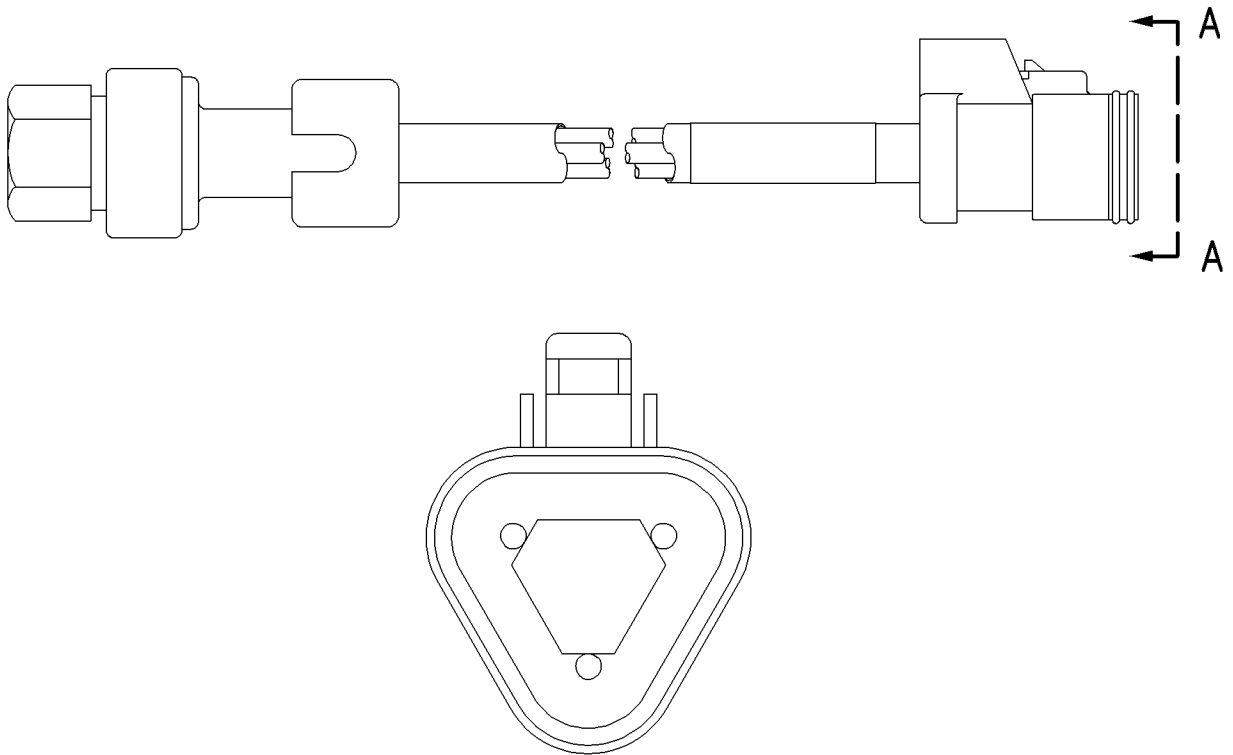
PART OF 159-1822, 202-2371 SENSOR GP-ENGINE

ALSO AN ATTACHMENT

SMCS-1718, 1916, 1917, 1923, 1924, 1925

i01586520

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



VIEW A-A

GRAPHIC #1

g00823280

ELECTRICAL AND STARTING SYSTEM

194-6726 SENSOR GP - PRESSURE

PART OF 159-1822, 202-2371 SENSOR GP-ENGINE

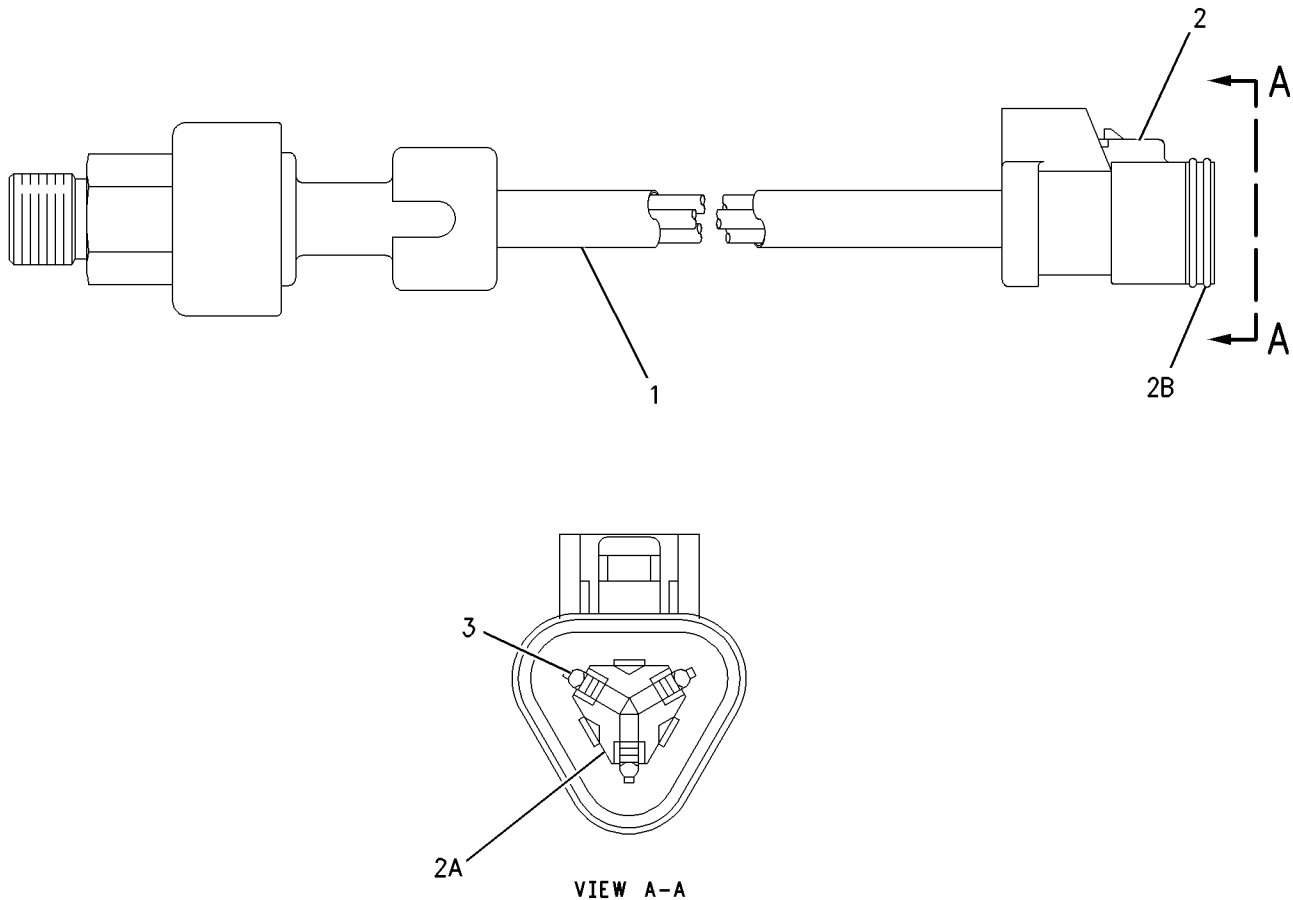
ALSO AN ATTACHMENT

SMCS-1718, 1916, 1917, 1923, 1924, 1925

i01458390

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	9X-1813		SLEEVE						
	2	1	104-2921	1	PLUG AS-CONNECTOR						
		1	155-2260	1	KIT-CONNECTING PLUG (3 PIN) (INCLUDES PLUG AS & WEDGE)						
	2A	1	3E-3368	1	WEDGE-PLUG LOCK						
	2B	1	102-8813	1	SEAL-INTERFACE						
	3	1	180-9340	3	SOCKET-CONNECTOR						

B-USE AS REQUIRED



GRAPHIC #1

g00758865

ELECTRICAL AND STARTING SYSTEM

3E-7886 SENSOR GP-SPEED

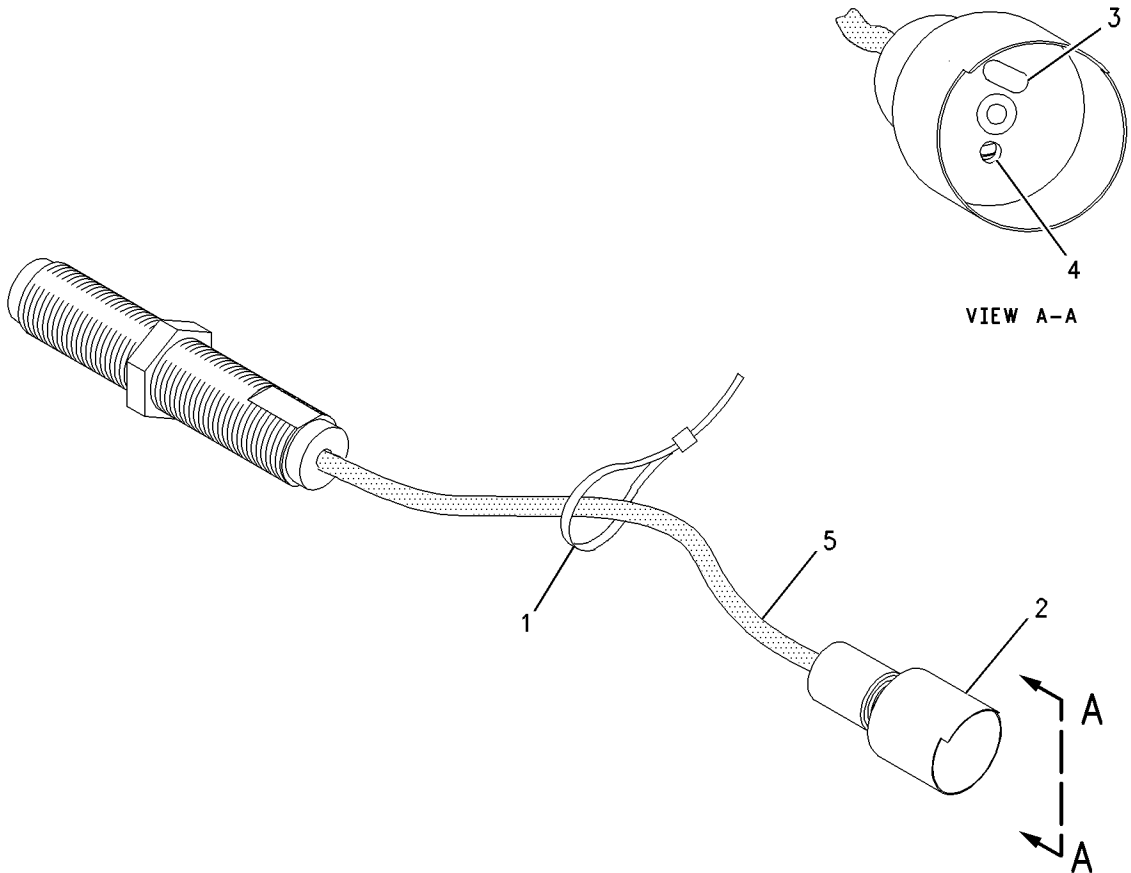
PART OF 7W-3355 SENSOR GP-SPEED
 FIELD REPLACEMENT ORDER 1-155-2270 KIT-REPAIR, 2-186-3736 SOCKET-CONNECTOR,
 189-5746-PAGE 463
 AN ATTACHMENT

SMCS-1907

i01616247

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	171-5349	1	STRAP-MARKER						
	2	1	7N-9738	1	HOUSING-RECEPTACLE						
	3	1	7N-7780	1	PIN-CONNECTOR (BLADE)						
	4	1	7N-7779	1	SOCKET-CONNECTOR						
E	5	1	9X-1386		SLEEVE (14CM)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00837148

ELECTRICAL AND STARTING SYSTEM

7W-3355 SENSOR GP - SPEED

ENGINE SPEED

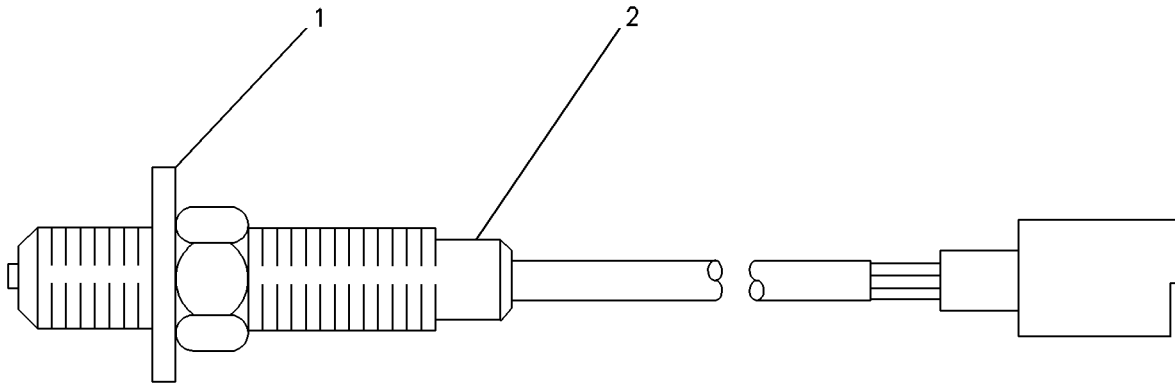
PART OF 132-1378, 132-1379, 132-1380 TACHOMETER GP - ELECTRIC
FOR USE WITH ENGINE MOUNTED INSTRUMENT PANEL
AN ATTACHMENT

SMCS - 1907

i01616195

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	4B-4281	1	WASHER (16.8X33X2.5MM THK)						
Y	2	1	3E-7886	1	SENSOR GP - SPEED (ENGINE)						459

B - USE AS REQUIRED
Y - SEPARATE ILLUSTRATION



GRAPHIC #1

g00065532

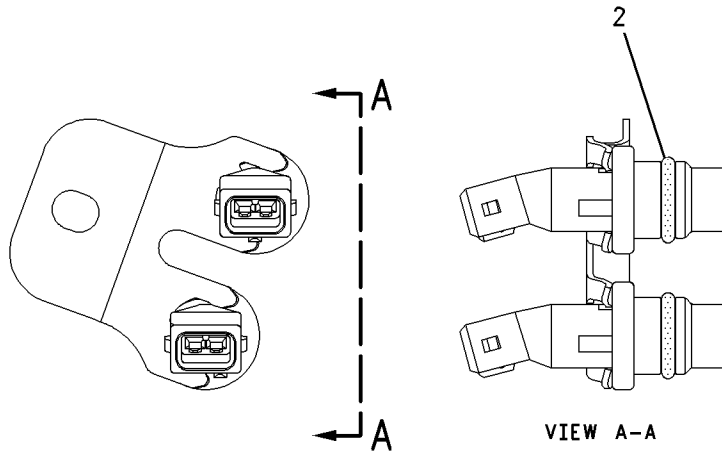
ELECTRICAL AND STARTING SYSTEM

119-4142 SENSOR GP - SPEED FIELD REPLACEMENT FOR 169-3300—PAGE 462

SMCS-1907

i01591010

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	117-1385	1	SEAL-O-RING						



GRAPHIC #1

g00825056

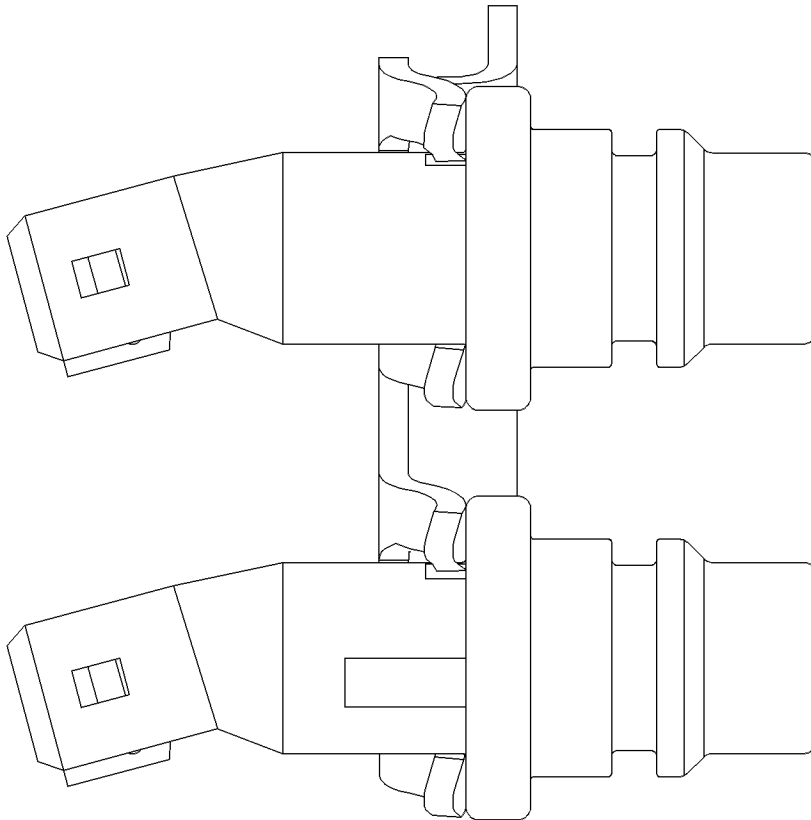
ELECTRICAL AND STARTING SYSTEM

169-3300 SENSOR GP-SPEED
PART OF 159-1822, 202-2371 SENSOR GP-ENGINE
FIELD REPLACEMENT ORDER 119-4142-PAGE 461
ALSO AN ATTACHMENT

SMCS-1907

i01118975

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

g00592118

ELECTRICAL AND STARTING SYSTEM

189-5746 SENSOR GP-SPEED

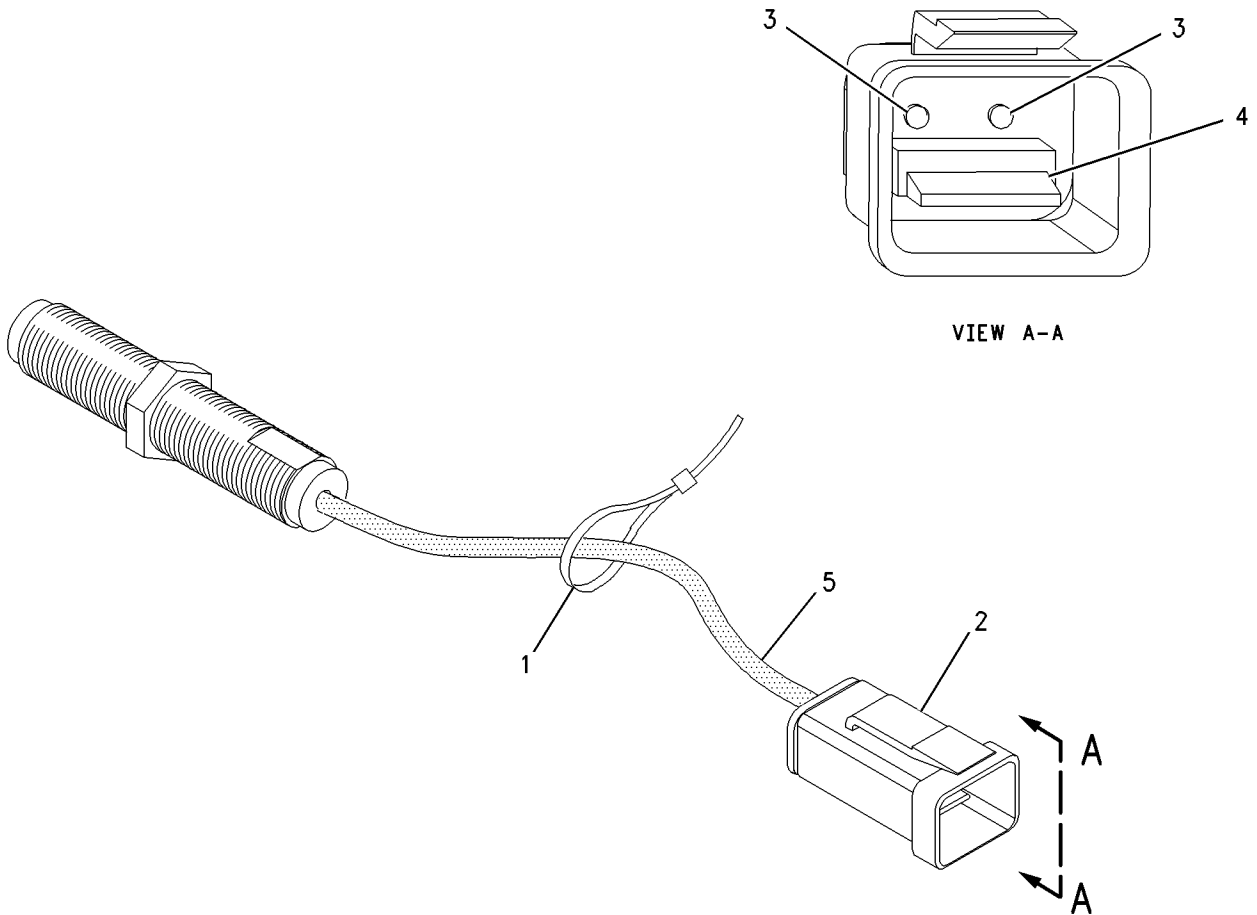
PART OF 7W-3355 SENSOR GP-SPEED
FIELD REPLACEMENT FOR 3E-7886—PAGE 459

SMCS-1907

i01616577

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	171-5349	1	STRAP-MARKER						
	2	1	102-8802	1	KIT-RECEPTACLE (2 PIN)						
					INCLUDES WEDGE AND RECEPTACLE ASSEMBLY						
	3	1	186-3735	2	PIN-CONNECTOR						
	4	1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2 PIN)						
E	5	1	9X-1386		SLEEVE (14CM)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00837278

ELECTRICAL AND STARTING SYSTEM

131-0427 SENSOR GP-TEMPERATURE

8 VOLT .PULSE WIDTH MODULATION

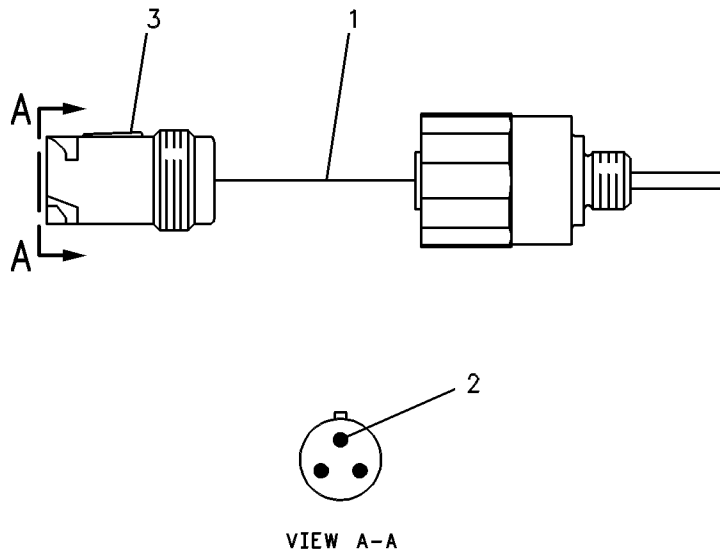
AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i01500305

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
E	1	1	112-4550		SLEEVE (33CM)						
	2	1	8T-8729	3	PIN-CONNECTOR						
	3	1	8T-8732	1	RECEPTACLE-CONNECTOR						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

g00084552

ELECTRICAL AND STARTING SYSTEM

191-6587 SENSOR GP-TEMPERATURE

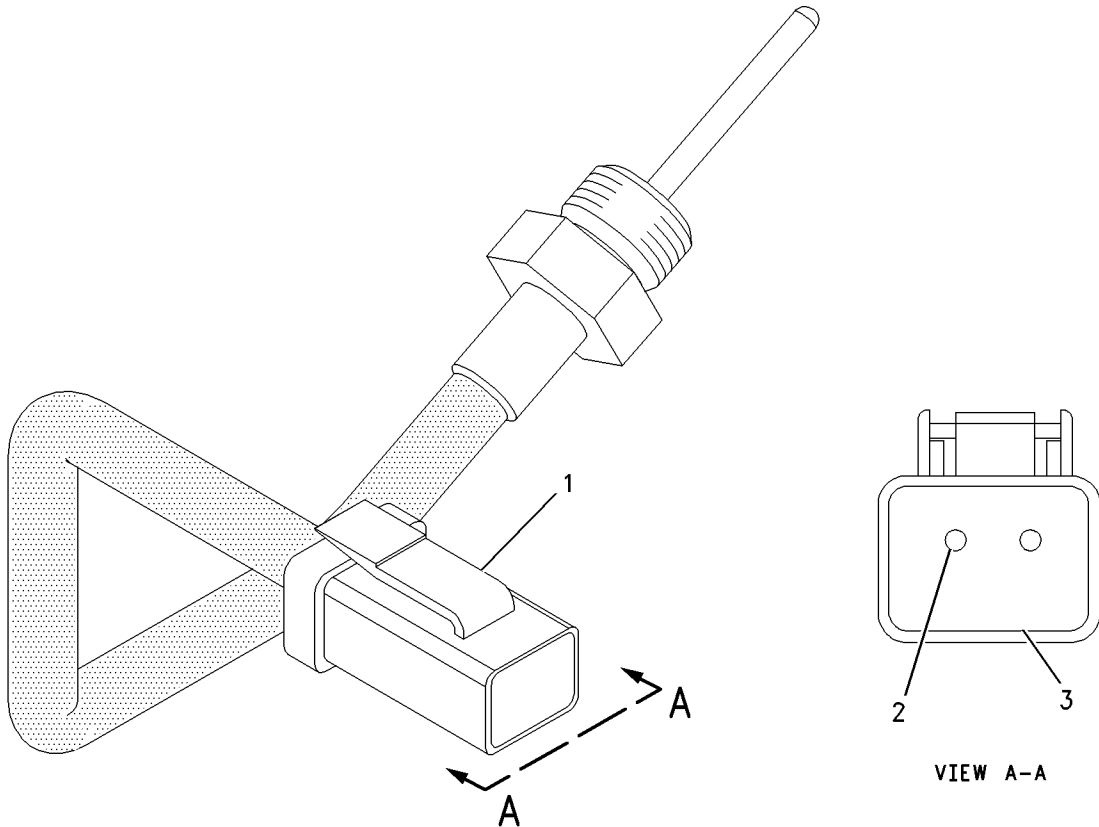
PART OF 159-1822, 202-2371 SENSOR GP-ENGINE

ALSO AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i01465225

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	155-2270	1	KIT-CONNECTING PLUG (2 PIN) (INCLUDES PLUG AS & WEDGE)						
	2	1	186-3736	2	SOCKET-CONNECTOR						
	3	1	155-2261	1	WEDGE-PLUG LOCK (2 PIN)						



GRAPHIC #1

g00774618

ELECTRICAL AND STARTING SYSTEM

7E-4860 STARTING AID GP-ETHER

12 VOLT. SPRAY ATOMIZER
AN ATTACHMENT

SMCS - 1456

i01230673

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	7X-6101	1	ATOMIZER AS-ETHER						
			-OR-						
	6N-9995	1	ATOMIZER AS-ETHER						
	7N-2059	1	CLAMP AS-CYLINDER						
	2L-8078	1	CONNECTOR						
	5P-2948	1	CONNECTOR-TUBE						
	5P-5391	1	FILM-INSTRUCTION (DIRECT ELECTRIC STARTING)						
	8J-7844	1	FITTING-ADAPTER						
	7N-9738	2	HOUSING-RECEPTACLE						
	7E-5245	1	INSTRUCTIONS						
	7N-7780	2	PIN-CONNECTOR (BLADE)						
	3K-0360	2	SEAL-O-RING (16.36MM ID)						
	7N-7779	2	SOCKET						
	3T-3453	1	SWITCH AS (ETHER AID ON/OFF)						
	8C-3569	1	SWITCH AS-TEMPERATURE (ETHER AID ARMING)						
	2V-1713	1	TAG-NOTICE (STARTING AID)						
	2L-8081	1	TERMINAL						
	5P-1476	2	TERMINAL (BLADE)						
	7N-0140	1	TUBE AS-COIL						
	8N-3536	1	TUBE-STEEL						
	3T-9493	1	VALVE AS-ETHER START						
BD	5P-0640		WIRE-ELECTRICAL						

B- USE AS REQUIRED
D- ORDER BY THE METER

ELECTRICAL AND STARTING SYSTEM

7E-4861 STARTING AID GP-ETHER

24 VOLT. SPRAY ATOMIZER

AN ATTACHMENT

SMCS-1456

i01230675

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	7X-6101	1	ATOMIZER AS-ETHER						
			-OR-						
	6N-9995	1	ATOMIZER AS-ETHER						
	7N-2059	1	CLAMP AS-CYLINDER						
	2L-8078	1	CONNECTOR						
	5P-2948	1	CONNECTOR-TUBE						
	5P-5391	1	FILM-INSTRUCTION (DIRECT ELECTRIC STARTING)						
	8J-7844	1	FITTING-ADAPTER						
	7N-9738	2	HOUSING-RECEPTACLE						
	7E-5245	1	INSTRUCTIONS						
	7N-7780	2	PIN-CONNECTOR (BLADE)						
	3K-0360	2	SEAL-O-RING (16.36MM ID)						
	7N-7779	2	SOCKET						
	3T-3453	1	SWITCH AS (ETHER AID ON/OFF)						
	8C-3569	1	SWITCH AS-TEMPERATURE (ETHER AID ARMING)						
	2V-1713	1	TAG-NOTICE (STARTING AID)						
	2L-8081	1	TERMINAL						
	5P-1476	2	TERMINAL (BLADE)						
	7N-0140	1	TUBE AS-COIL						
	8N-3536	1	TUBE-STEEL						
	9G-4365	1	VALVE AS-ETHER START						
BE	5P-0640		WIRE-ELECTRICAL						

B-USE AS REQUIRED

E-ORDER BY THE CENTIMETER

ELECTRICAL AND STARTING SYSTEM

3E-5382 STARTING MOTOR GP-ELECTRIC

12 VOLT

PART OF 7W-8759 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

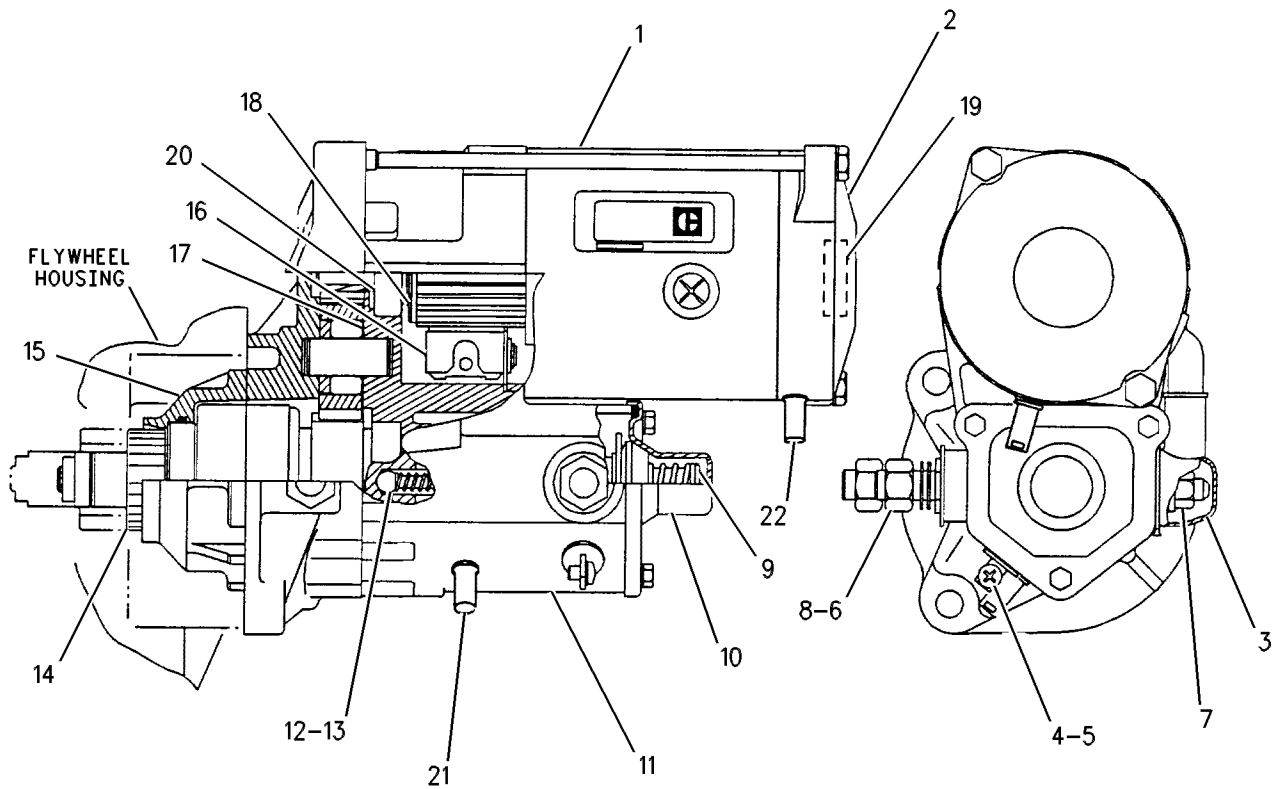
i00929296

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-1270	1	CASE AS-STARTING MOTOR						
	2	1	9X-1276	1	FRAME-STARTER						
	3	1	9X-1278	1	BOOT						
M	4	1	9X-2036	1	SCREW-PAN HEAD						
	5	1	8F-1434	1	LOCKWASHER (0.51MM THK)						
M	6	1	8T-4244	2	NUT (M12X1.75 THD)						
M	7	1	8T-4133	1	NUT (M10X1.50 THD)						
		1	8T-4121	1	WASHER (2.5MM THK)						
	8	1	7X-0562	2	WASHER-HARD (0.8MM THK)						
	9	1	8C-9778	1	PLUNGER AS						
	10	1	9X-1277	1	COVER						
	11	1	3E-6497	1	SWITCH AS (STARTER)						
	12	1	8J-4455	1	BALL						
	13	1	7T-6090	1	SPRING						
	14	1	9X-1272	1	DRIVE AS-STARTING MOTOR						
	15	1	9X-1273	1	HOUSING-STARTING MOTOR						
	16	1	9X-1275	1	HOLDER AS-BRUSH						
	17	1	7T-6087	1	WASHER						
	18	1	9X-1271	1	ARMATURE AS						
	19	1	2P-8104	1	BEARING						
	20	1	8L-4070	1	BALL BEARING						
	21	1	3E-5154	1	BUSHING-STARTING MOTOR						
	22	1	3E-5153	1	COVER-STARTING MOTOR						
					AVAILABLE REPAIR KIT(S) :						
			9X-0295	1	KIT-TERMINAL (INCL. NUTS, WASHERS, BUSHINGS, SEALS, PLATES & TERMINALS)						
			9X-1285	1	KIT-BRUSH (INCL. BRUSHES & SCREWS)						
			9X-1284	1	KIT-STARTING MOTOR SEAL (INCL. SEALS & GASKET)						
			9X-1283	1	KIT-HARDWARE (INCL. BOLTS, SCREWS, NUT, WASHER & LOCKWASHERS)						
			9X-1282	1	KIT-STARTING MOTOR GEAR (INCL. PINIONS, ROLLERS & RETAINERS)						
M-METRIC PART											

ELECTRICAL AND STARTING SYSTEM

3E-5382 STARTING MOTOR GP-ELECTRIC (contd.)

i00929296



GRAPHIC #1

g00474206

ELECTRICAL AND STARTING SYSTEM

6I-4991 STARTING MOTOR GP-ELECTRIC

24 VOLT

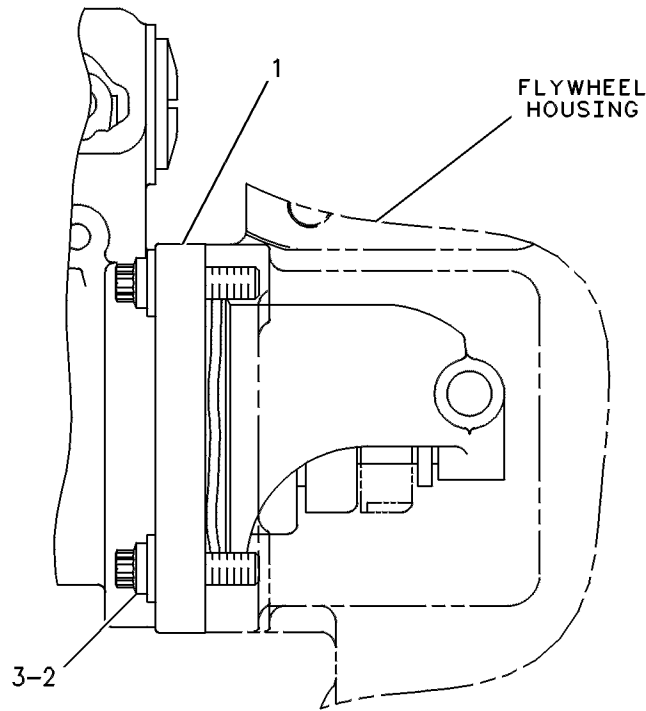
FOR USE WITH LONG HAUL OR LIGHT DUTY CYCLE APPLICATIONS, 122-8934-PAGE 135
AN ATTACHMENT

SMCS-1453

i00811111

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	103-0875	1	STARTING MOTOR GP-ELECTRIC						482
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	6V-5839	3	WASHER (2.5MM THK)						

M-METRIC PART
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00238583

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

6V-4238 STARTING MOTOR GP-ELECTRIC*R

12 VOLT. BASIC

PART OF 7E-6306 STARTING MOTOR GP-ELECTRIC

ALSO AN ATTACHMENT

SMCS-1453

i01525360

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-4250	1	SOLENOID AS						
	2	1	8T-4205	5	WASHER-HARD (7.2X14.5X2MM THK)						
	3	1	6V-8188	3	NUT (1/2-13 THD)						
	4	1	4M-1828	1	RETAINER-SPRING						
	5	1	036-9821	1	WASHER						
	6	1	7T-3269	1	BOOT						
	7	1	7T-3270	1	PLUNGER AS						
	8	1	9M-7609	1	SPRING						
	9	1	4M-1827	1	RETAINER-SPRING						
	10	1	102-9863	1	TERMINAL AS-STARTER						
	11	1	4M-1831	1	PLUG-LEVER HOUSING						
JP	12	1	7L-2894	1	GASKET						
	13	1	7X-1952	1	HOUSING AS-LEVER						
	14	1	7X-1954	1	HOUSING AS-DRIVE						
	15	1	9X-8070	1	DRIVE AS-STARTING MOTOR						
	16	1	036-9823	5	BOLT						
	17	1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
	18	1	3F-0379	8	SCREW-POLE SHOE						
	19	1	9X-4249	1	ARMATURE AS						
	20	1	7X-1950	4	SHOE-POLE						
	21	1	9X-4248	1	COIL-STARTING MOTOR						
	22	1	106-7149	1	HOUSING AS-STARTER						
	23	1	9X-4252	1	PLATE AS-STARTING MOTOR						
JZ	24	1		1	SPACER						
PZ	25	1		1	SEAL						
	26	1	5S-7349	5	BOLT (1/4-20X0.5 IN)						
	27	1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
	28	1	4B-2049	2	NUT (10-32 THD)						
	29	1	8F-1434	1	LOCKWASHER						
	30	1	2H-3429	1	RING-RETAINING						
	31	1	9X-4824	1	COVER-STARTING MOTOR						
JZ	32	1		1	RETAINER-SEAL						
PZ	33	1		1	LEVER AS						
JPZ	34	1		1	STOP						
PZ	35	1		1	SHAFT AS						
JZ	36	1		1	RING						
JZ	37	1		1	WASHER (0.38X0.88X0.02 IN THK)						
	38	1	7X-0562	3	WASHER-HARD (13.5X19X0.8MM THK)						
	39	1	7T-3454	1	INSULATOR						
	40	1	7T-3451	1	INSULATOR-TERMINAL						
	41	1	8T-8569	1	INSULATOR-TERMINAL						
	42	1	9X-4271	1	CONNECTOR						
LPZ	43	1		1	SEAL-O-RING						
LZ	44	1		4	SCREW						
JLZ	45	1		4	SCREW AS						
LZ	46	1		4	BRUSH						
LZ	47	1		4	SPRING						
JZ	48	1		2	BUSHING						
JZ	49	1		2	BUSHING						
JZ	50	1		2	PLUG						
JZ	51	1		3	CUP						
JZ	52	1		1	WASHER (0.38X0.88X0.02 IN THK)						
PJZ	53	1		1	NUT						
PZ	54	1		1	SEAL						
PJZ	55	1		1	SEAL-O-RING						

ELECTRICAL AND STARTING SYSTEM

6V-4238 STARTING MOTOR GP-ELECTRIC (contd.)

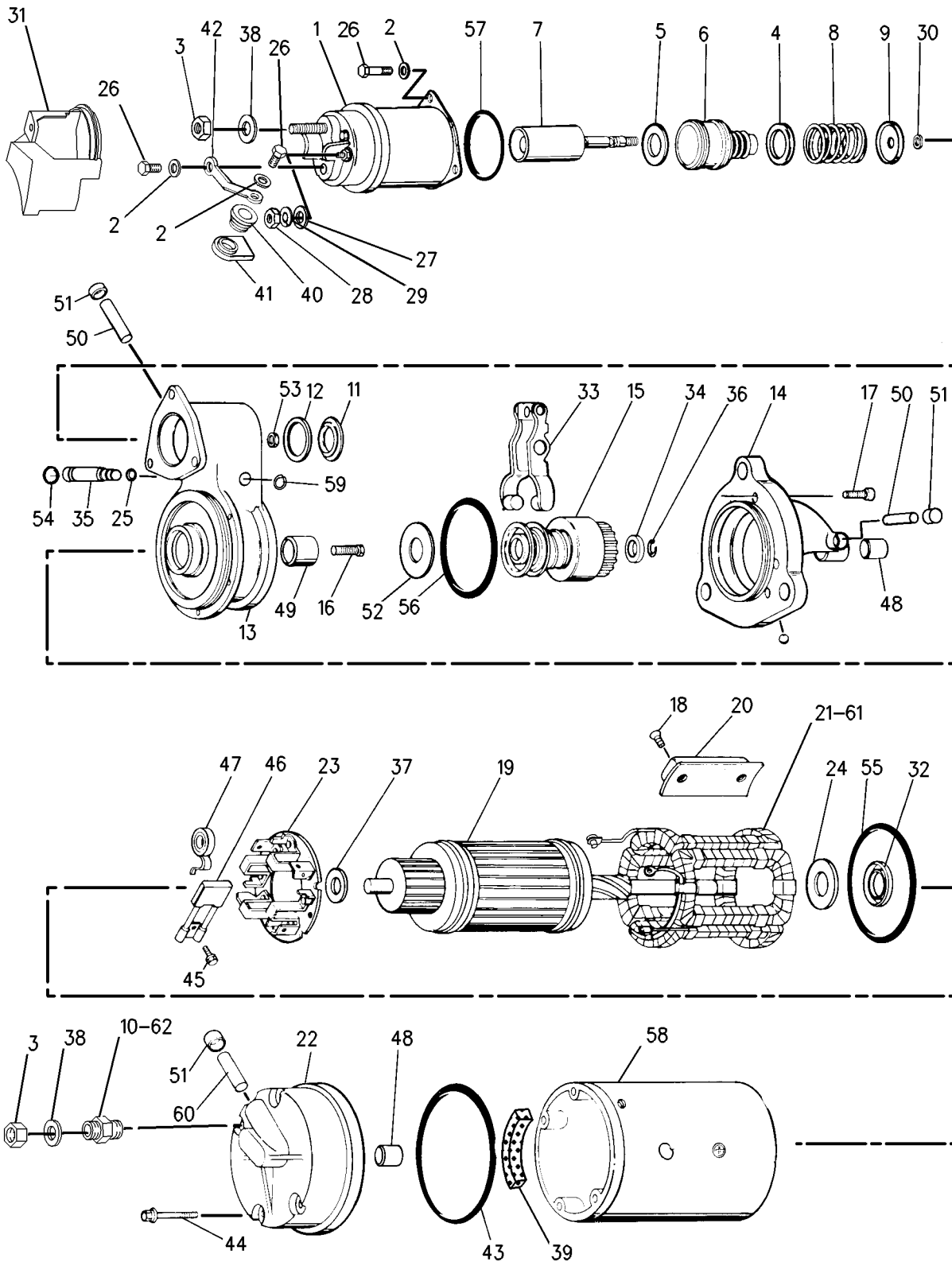
i01525360

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
JPZ	56	1		1	SEAL-O-RING						
JZ	57	1		1	SEAL-O-RING						
Z	58	1		1	HOUSING						
PZ	59	1		1	RETAINER						
JZ	60	1		1	WICK						
LZ	61	1		3	INSULATOR						
	62	1	8T-9884	1	KIT-INSULATOR (STARTING MOTOR) (INCLUDES INSULATORS & BUSHING)						
AVAILABLE REPAIR KIT(S):											
J			9X-4270	1	KIT-BUSHING (STARTER)						
L			9X-4251	1	KIT-BRUSH (STARTER) (12 VOLT)						
P			7X-1958	1	KIT-LEVER (SHIFT)						
J-KIT MARKED J INCLUDES PART(S) MARKED J L-KIT MARKED L INCLUDES PART(S) MARKED L P-KIT MARKED P INCLUDES PART(S) MARKED P Z-NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

6V-4238 STARTING MOTOR GP-ELECTRIC (contd.)

i01525360



GRAPHIC #1

g00792413

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

6V-5821 STARTING MOTOR GP-ELECTRIC*R

24 VOLT

PART OF 132-1418 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

i01566427

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5S-7349	4	BOLT (1/4-20X0.5 IN)						
	2	1	9X-4824	1	COVER-STARTING MOTOR						
	3	1	2H-3429	2	RING-RETAINING						
	4	1	4B-2049	3	NUT (10-32 THD)						
	5	1	8F-1434	2	LOCKWASHER						
	6	1	7T-3271	1	CONNECTOR						
	7	1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)						
	8	1	036-9823	5	BOLT						
	9	1	7T-3277	1	COIL AS-FIELD						
	10	1	3F-0379	8	SCREW-POLE SHOE						
	11	1	7T-3276	1	ARMATURE AS (24 VOLT)						
	12	1	8H-1141	4	SHOE-POLE						
	13	1	7T-3454	1	INSULATOR						
	14	1	7T-3279	1	HOUSING AS						
	15	1	7T-3278	1	HOLDER AS-BRUSH						
	16	1	3T-3422	1	WIRE AS						
	17	1	8T-8566	1	TERMINAL AS						
NP	18	1	7L-2894	1	GASKET						
	19	1	6V-8188	4	NUT (1/2-13 THD)						
	20	1	7X-0562	4	WASHER-HARD (13.5X19X0.8MM THK)						
	21	1	8T-0328	3	WASHER-HARD (5.5X10X1MM THK)						
	22	1	7T-3451	1	INSULATOR-TERMINAL						
	23	1	8T-8569	1	INSULATOR-TERMINAL						
	24	1	9X-9511	1	SOLENOID AS (24 VOLT)						
	25	1	036-9821	1	WASHER						
	26	1	7T-3269	1	BOOT						
	27	1	7T-3270	1	PLUNGER AS						
	28	1	9M-7609	1	SPRING						
	29	1	4M-1828	1	RETAINER-SPRING						
	30	1	4M-1827	1	RETAINER-SPRING						
	31	1	4M-1831	1	PLUG-LEVER HOUSING						
	32	1	105-9702	1	HOUSING AS						
	33	1	9X-9510	1	HOUSING AS						
	34	1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
	35	1	6N-3827	1	DRIVE AS-MOTOR						
Z	36	1		1	HOUSING						
JZ	37	1		4	SPRING						
JZ	38	1		4	BRUSH						
JZ	39	1		4	SCREW						
JPZ	40	1		6	SCREW AS						
JPZ	41	1		2	SEAL-O-RING						
LZ	42	1		3	INSULATOR						
NPZ	45	1		1	NUT						
NPZ	46	1		1	SEAL-O-RING						
PZ	47	1		1	SEAL-O-RING						
Z	48	1		1	RETAINER						
PZ	49	1		1	GASKET						
PZ	50	1		1	BUSHING						
PZ	51	1		2	CAP						
PZ	52	1		1	PLUG-PIPE (1/8-27THD HEX-COUNTERSUNK)						
PZ	53	1		1	PLUG						
PZ	54	1		1	WICK						
PZ	55	1		1	PLUG						
PZ	56	1		1	BUSHING						
PZ	57	1		1	WASHER						

ELECTRICAL AND STARTING SYSTEM

6V-5821 STARTING MOTOR GP-ELECTRIC (contd.)

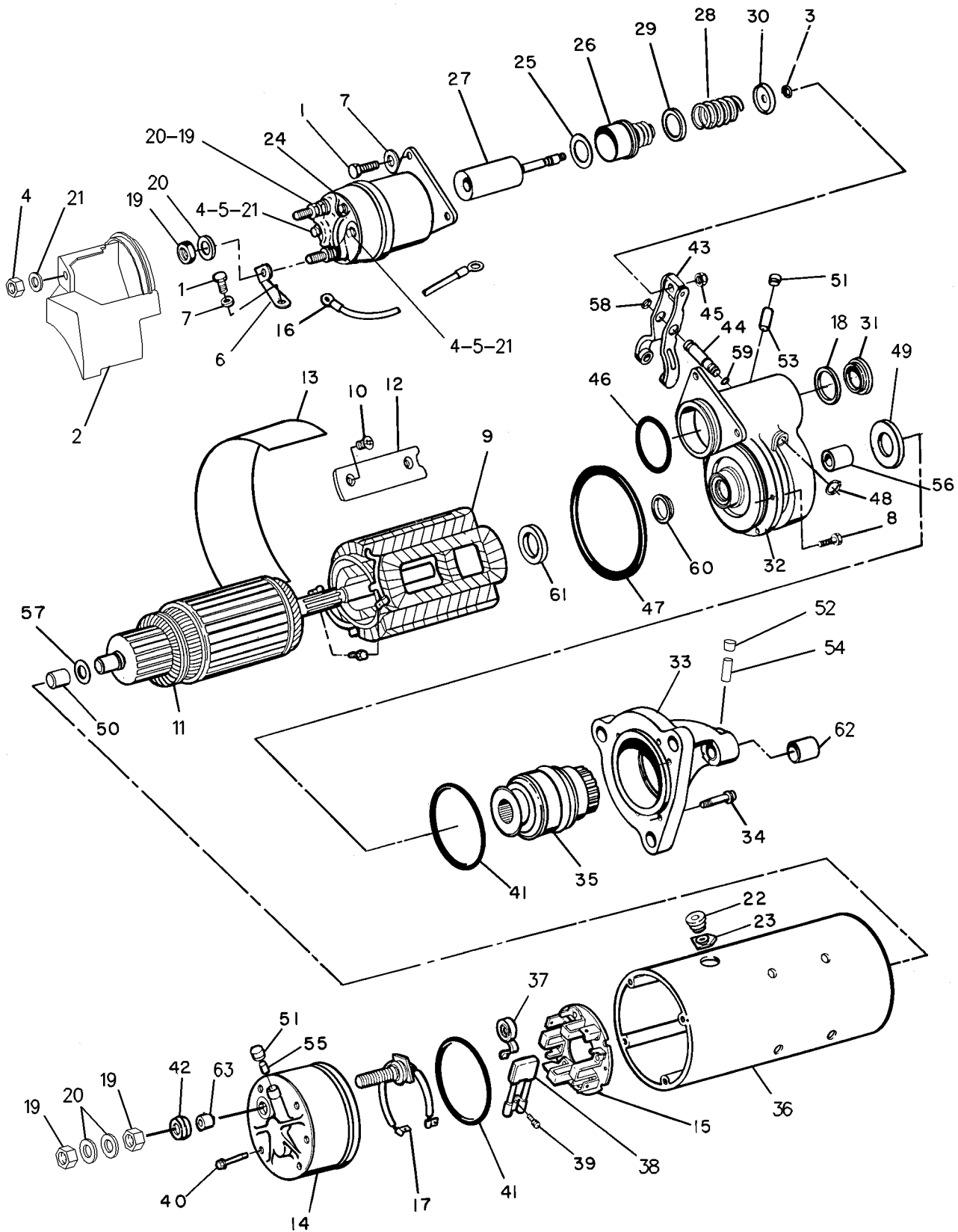
i01566427

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
NZ	58	1		1	SEAL-O-RING						
NZ	59	1		1	SEAL-O-RING						
PZ	60	1		1	RETAINER						
PZ	61	1		1	SPACER						
PZ	62	1		1	BUSHING						
LZ	63	1		1	BUSHING						
AVAILABLE REPAIR KIT(S) :											
J			8C-3655	1	KIT-BRUSH (STARTING MOTOR)						
P			7T-3267	1	KIT-BUSHING (STARTING MOTOR)						
N			7T-3268	1	KIT-LEVER (STARTING MOTOR)						
L			8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
J-KIT MARKED J SERVICES PART(S) MARKED J L-KIT MARKED L SERVICES PART(S) MARKED L N-KIT MARKED N SERVICES PART(S) MARKED N P-KIT MARKED P SERVICES PART(S) MARKED P Z-NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

6V-5821 STARTING MOTOR GP-ELECTRIC (contd.)

i01566427



GRAPHIC #1

g00814130

ELECTRICAL AND STARTING SYSTEM

7E-6306 STARTING MOTOR GP-ELECTRIC

12 VOLT. LIGHT DUTY APPLICATIONS

FOR USE WITH 122-8934-PAGE 135, SAE #2 FLYWHEEL HOUSING WITH LEFT SIDE STARTER, RV APPLICATIONS. CANNOT BE USED WITH LATIN AMERICAN APPLICATIONS

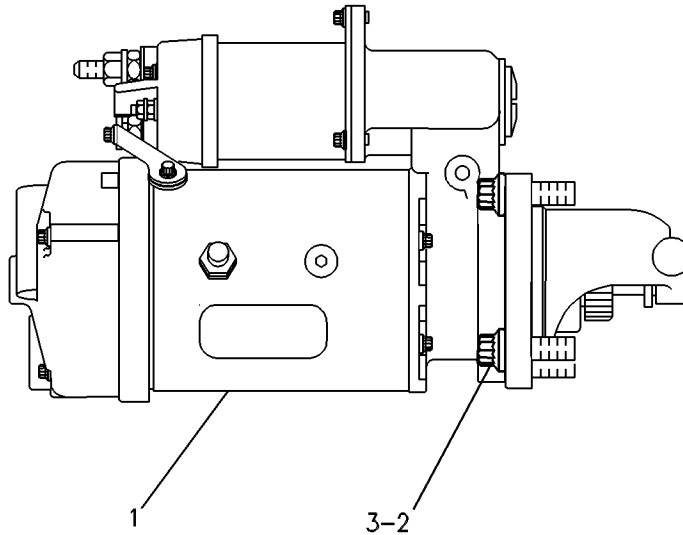
ALSO AN ATTACHMENT
TYPE 1

SMCS-1453

i01530135

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	6V-4238	1	STARTING MOTOR GP-ELECTRIC						472
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	6V-5839	3	WASHER (11X21X2.5MM THK)						

M-METRIC PART
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00251550

ELECTRICAL AND STARTING SYSTEM

7E-6306 STARTING MOTOR GP-ELECTRIC

12 VOLT. LIGHT DUTY APPLICATIONS

FOR USE WITH 122-8934—PAGE 135, SAE #2 FLYWHEEL HOUSING WITH LEFT SIDE STARTER, RV APPLICATIONS. CANNOT BE USED WITH LATIN AMERICAN APPLICATIONS

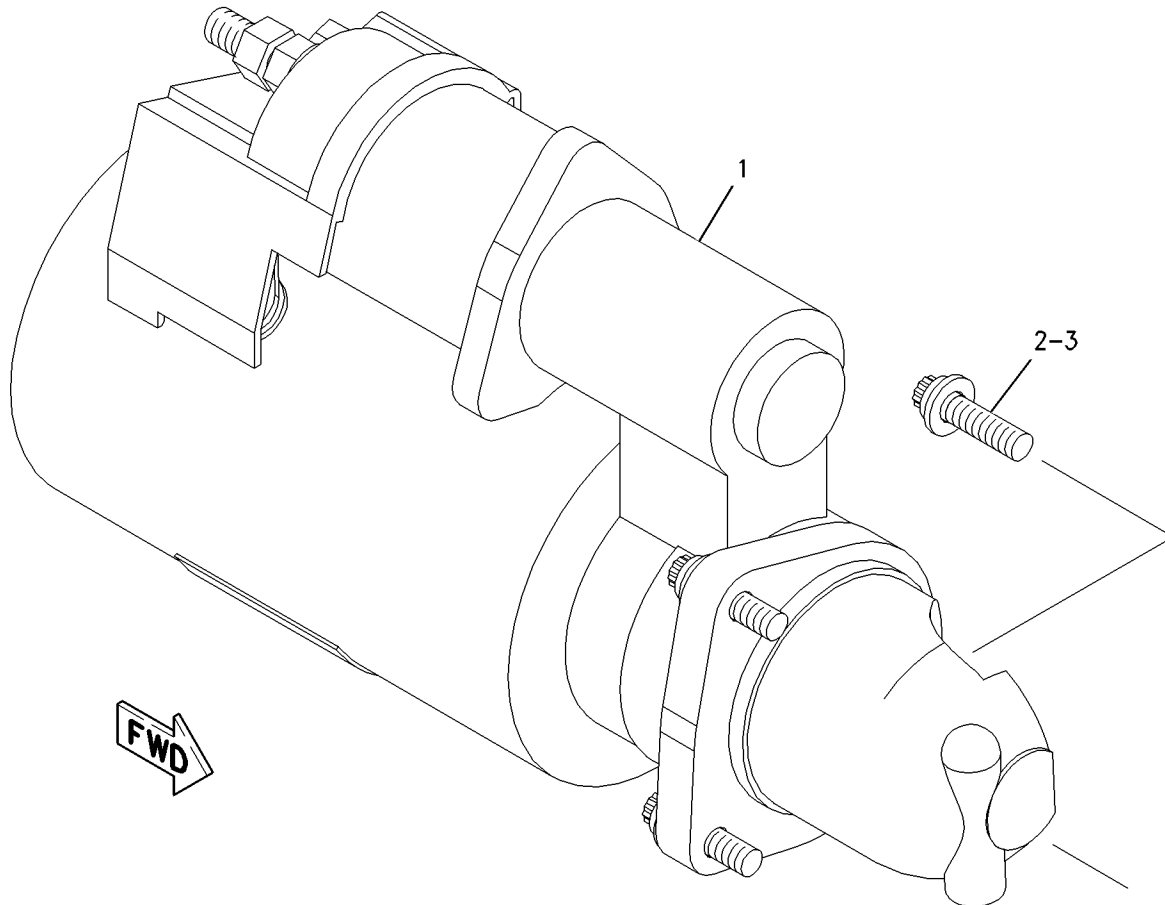
ALSO AN ATTACHMENT
TYPE 2

SMCS-1453

i01593442

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CY	1	1	207-1510	1	STARTING MOTOR GP-ELECTRIC						510
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	6V-5839	3	WASHER (11X21X2.5MM THK)						

C- CHANGE FROM PREVIOUS TYPE
M- METRIC PART
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

g00828567

ELECTRICAL AND STARTING SYSTEM

7W-8759 STARTING MOTOR GP-ELECTRIC

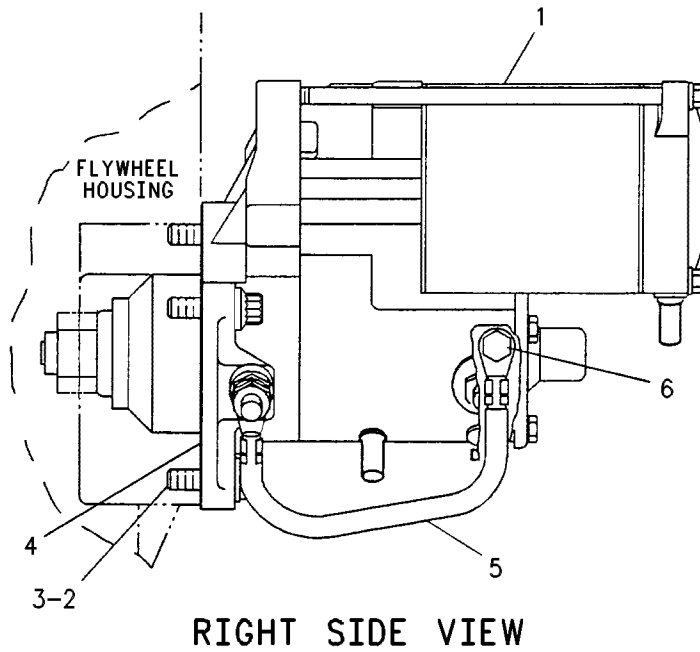
12 VOLT
AN ATTACHMENT

SMCS-1453

i00547256

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
CY	1	1	3E-5382	1	STARTING MOTOR GP-ELECTRIC						468
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	6V-5839	3	WASHER (2.5MM THK)						
	4	1	3K-3257	1	GASKET						
	5	1	9Y-8241	1	WIRE AS						
	6	1	8T-4200	1	BOLT (M8X1.25X16MM)						
		1	8T-4224	1	WASHER-HARD (2MM THK)						

C- CHANGE FROM PREVIOUS TYPE
M- METRIC PART
Y- SEPARATE ILLUSTRATION



GRAPHIC #1

g00250462

ELECTRICAL AND STARTING SYSTEM

103-0875 STARTING MOTOR GP-ELECTRIC*R

PART OF 6I-4991 STARTING MOTOR GP-ELECTRIC

AN ATTACHMENT

SMCS-1453

i00810530

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-4823	1	SOLENOID AS						
	2	1	8T-9884	1	KIT-INSULATOR						
	3	1	6V-8188	4	NUT (1/2-13 THD)						
	4	1	4M-1828	1	RETAINER-SPRING						
	5	1	036-9821	1	WASHER						
	6	1	7T-3269	1	BOOT						
	7	1	7T-3270	1	PLUNGER AS						
	8	1	9M-7609	1	SPRING						
	9	1	4M-1827	1	RETAINER-SPRING						
	10	1	102-9863	1	TERMINAL AS						
	11	1	4M-1831	1	PLUG-LEVER HOUSING						
JP	12	1	7L-2894	1	GASKET						
	13	1	7X-1952	1	HOUSING AS						
	14	1	7X-1954	1	HOUSING AS-DRIVE						
	15	1	9X-8070	1	DRIVE AS-STARTING MOTOR						
	16	1	036-9823	5	BOLT						
	17	1	7X-3373	6	BOLT (5/16-18X.88IN)						
	18	1	3F-0379	8	SCREW-POLE SHOE						
	19	1	7X-1951	1	ARMATURE AS						
	20	1	7X-1950	4	SHOE-POLE						
	21	1	9X-4822	1	COIL AS						
	22	1	106-7149	1	HOUSING AS						
	23	1	9X-4821	1	PLATE AS						
JZ	24	1		1	SPACER						
PZ	25	1		1	SEAL						
	26	1	5S-7349	4	BOLT (1/4-20X0.5IN)						
	27	1	8T-0328	2	WASHER-HARD (1MM THK)						
	28	1	4B-2049	2	NUT (10-32 THD)						
	29	1	8F-1434	1	LOCKWASHER (0.51MM THK)						
	30	1	2H-3429	1	RING-RETAINING						
	31	1	3E-7853	1	TERMINAL-STARTING MOTOR						
JZ	32	1		1	RETAINER-SEAL						
PZ	33	1		1	LEVER AS						
JPZ	34	1		1	STOP						
PZ	35	1		1	SHAFT AS						
JZ	36	1		1	RING						
JZ	37	1		1	WASHER						
	38	1	7X-0562	4	WASHER-HARD (0.8MM THK)						
	39	1	7T-3454	1	INSULATOR						
	40	1	7T-3451	1	INSULATOR-TERMINAL						
	41	1	8T-8569	1	INSULATOR-TERMINAL						
	42	1	9X-4271	1	CONNECTOR						
PLZ	43	1		1	O-RING						
LZ	44	1		4	SCREW						
JLZ	45	1		4	SCREW AS						
LZ	46	1		4	BRUSH						
LZ	47	1		4	SPRING						
JZ	48	1		2	BUSHING						
JZ	49	1		1	BUSHING						
JZ	50	1		2	PLUG						
JZ	51	1		3	CUP						
JZ	52	1		1	WASHER						
PJZ	53	1		1	NUT						
PZ	54	1		1	SEAL						
PJZ	55	1		1	O-RING						
JPZ	56	1		1	O-RING						

ELECTRICAL AND STARTING SYSTEM

103-0875 STARTING MOTOR GP - ELECTRIC (contd.)

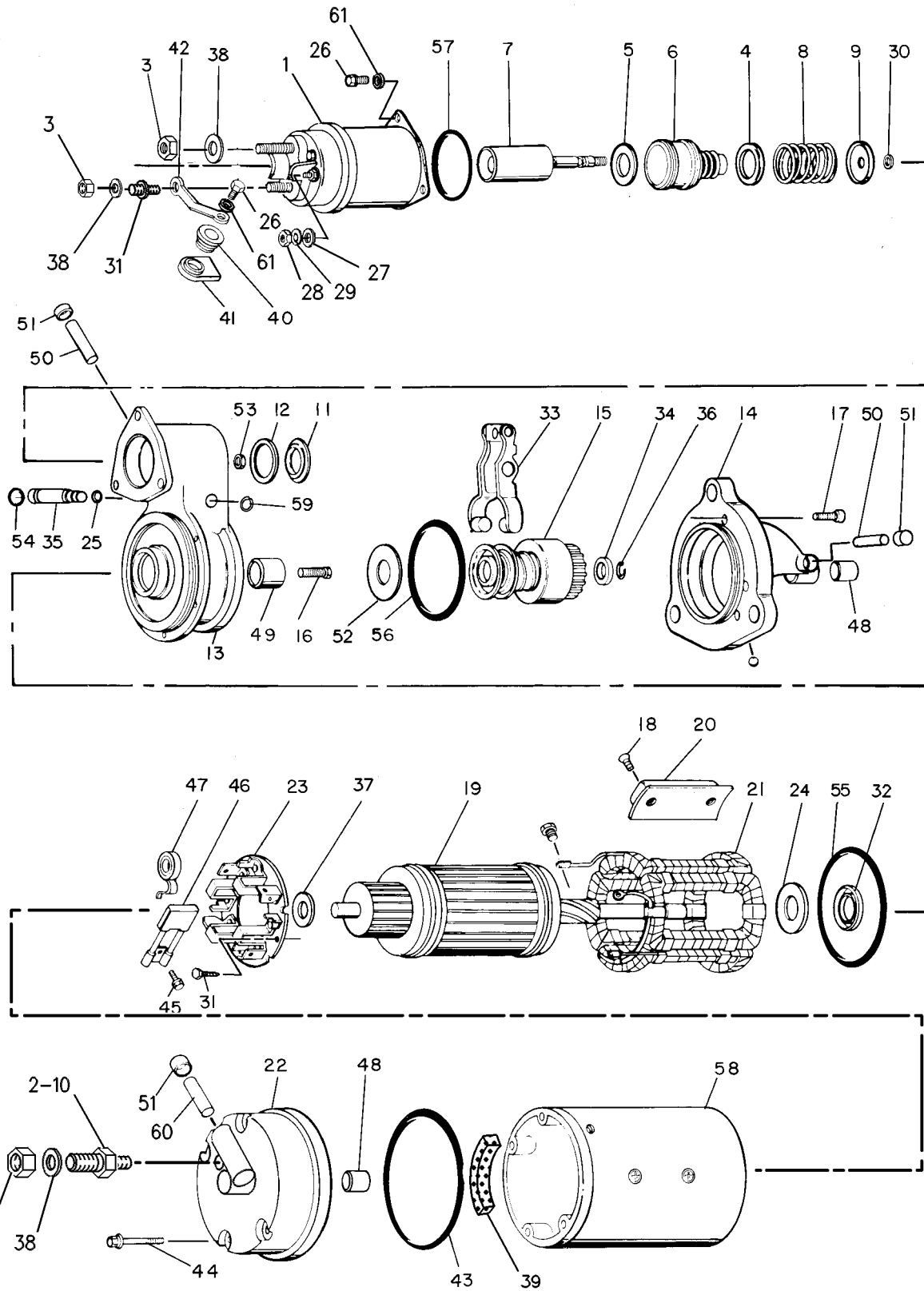
i00810530

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
JZ	57	1		1	O-RING						
Z	58	1		1	HOUSING						
PZ	59	1		1	RETAINER						
JZ	60	1		1	WICK						
	61	1	8T-4205	4	WASHER-HARD (2MM THK)						
AVAILABLE REPAIR KIT(S) :											
J			9X-4270	1	KIT-BUSHING						
L			9X-4825	1	KIT-BRUSH						
P			7X-1958	1	KIT-LEVER						
J - (KITS MARKED J INCLUDE PARTS MARKED J) L - (KITS MARKED L INCLUDE PARTS MARKED L) P - (KITS MARKED P INCLUDE PARTS MARKED P) Z - NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

103-0875 STARTING MOTOR GP-ELECTRIC (contd.)

i00810530



GRAPHIC #1

g00238588

ELECTRICAL AND STARTING SYSTEM

106-8558 STARTING MOTOR GP-ELECTRIC*R

24 VOLT

PART OF 111-4275 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT FOR 106-8559-PAGE 486

AN ATTACHMENT

SMCS-1453

i01617896

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	106-8559	1	STARTING MOTOR GP-ELECTRIC						486
Y-SEPARATE ILLUSTRATION									

ELECTRICAL AND STARTING SYSTEM

106-8559 STARTING MOTOR GP-ELECTRIC

24 VOLT

PART OF 106-8558 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 106-8558-PAGE 485

AN ATTACHMENT

SMCS-1453

i01517590

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-7859	1	SOLENOID AS-STARTER (24 VOLT)						
	2	1	5S-7349	4	BOLT (1/4-20X0.5 IN)						
	3	1	6V-8188	4	NUT (1/2-13 THD)						
	4	1	4M-1828	1	RETAINER-SPRING						
J	5	1	036-9821	1	WASHER						
	6	1	7T-3269	1	BOOT						
	7	1	7T-3270	1	PLUNGER AS						
	8	1	9M-7609	1	SPRING						
	9	1	4M-1827	1	RETAINER-SPRING						
	10	1	102-9863	1	TERMINAL AS-STARTER						
	11	1	4M-1831	1	PLUG-LEVER HOUSING						
JLP	12	1	7L-2894	1	GASKET						
	13	1	7X-1952	1	HOUSING AS-LEVER						
	14	1	3E-7858	1	HOUSING AS-STARTER						
	15	1	3E-7857	1	DRIVE AS-STARTING MOTOR						
	16	1	036-9823	5	BOLT						
	17	1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
	18	1	3F-0379	8	SCREW-POLE SHOE						
	19	1	3E-7855	1	ARMATURE AS-STARTER (24 VOLT)						
	20	1	7X-1950	4	SHOE-POLE						
	21	1	3E-7852	1	COIL-STARTING MOTOR						
	22	1	106-7149	1	HOUSING AS-STARTER						
	23	1	9X-4821	1	PLATE AS						
JZ	24	1		1	SPACER						
PZ	25	1		1	RING						
	26	1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)						
	27	1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
	28	1	4B-2049	2	NUT (10-32 THD)						
	29	1	8F-1434	1	LOCKWASHER						
	30	1	2H-3429	1	RING-RETAINING						
LZ	31	1		4	SCREW						
JZ	32	1		1	RETAINER						
PZ	33	1		1	LEVER AS						
	34	1	3E-7853	1	TERMINAL-STARTING MOTOR						
PZ	35	1		1	SHAFT AS						
JZ	36	1		1	RING						
JZ	37	1		1	WASHER						
	38	1	7X-0562	4	WASHER-HARD (13.5X19X0.8MM THK)						
	39	1	7T-3454	1	INSULATOR						
	40	1	7T-3451	1	INSULATOR-TERMINAL						
	41	1	8T-8569	1	INSULATOR-TERMINAL						
	42	1	9X-4271	1	CONNECTOR						
JLZ	43	1		1	SEAL-O-RING						
LZ	44	1		4	SCREW						
LZ	45	1		4	SCREW AS						
LZ	46	1		4	BRUSH						
LZ	47	1		4	SPRING						
JZ	48	1		2	BUSHING						
JZ	49	1		1	BUSHING						
JZ	50	1		3	PLUG						
JZ	51	1		3	CUP						
JZ	52	1		1	WASHER						
PJZ	53	1		1	NUT						
PZ	54	1		1	SEAL						

ELECTRICAL AND STARTING SYSTEM

106-8559 STARTING MOTOR GP-ELECTRIC (contd.)

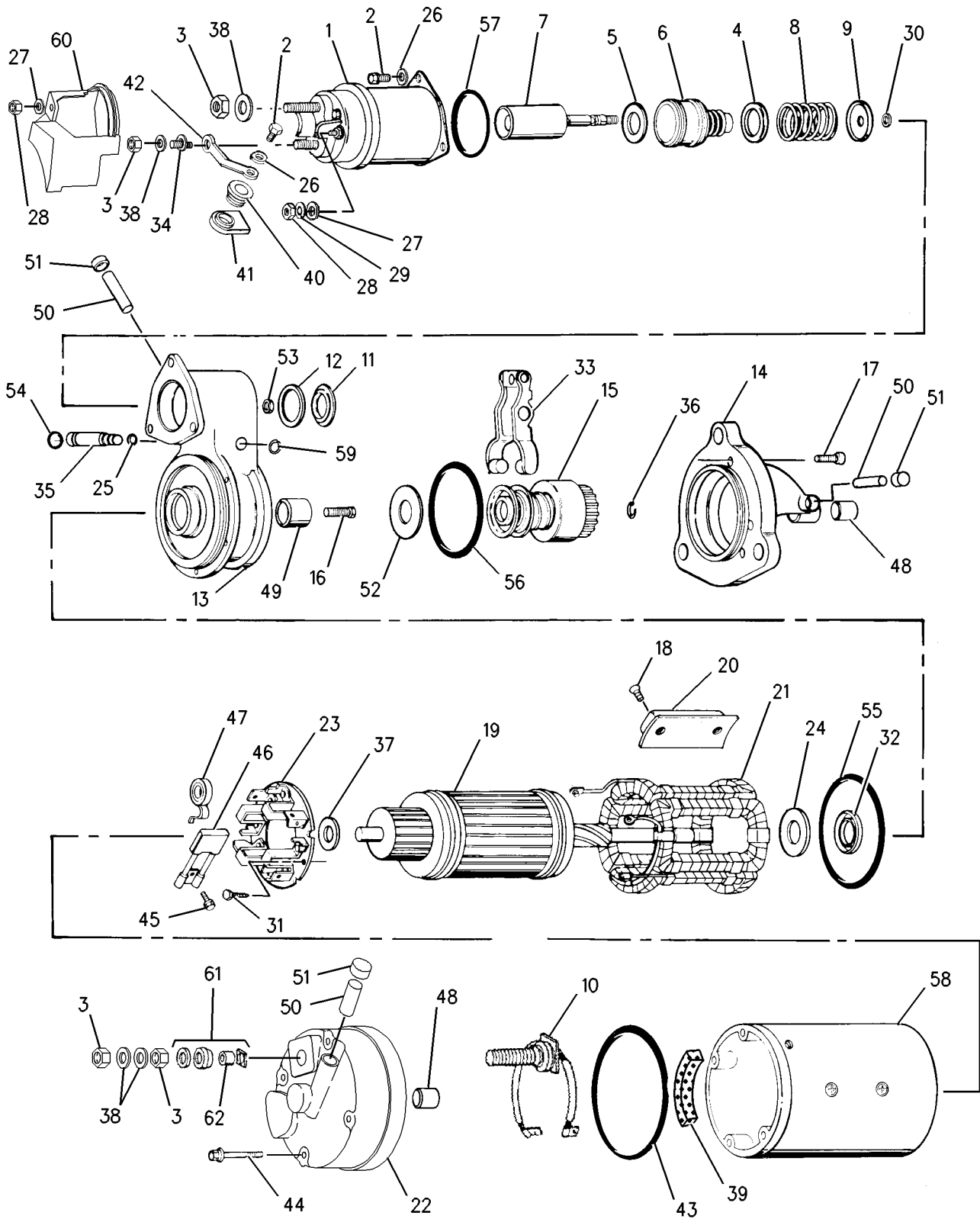
i01517590

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
PJZ	55	1		1	SEAL-O-RING						
JPZ	56	1		1	SEAL-O-RING						
JZ	57	1		1	SEAL-O-RING						
Z	58	1		1	HOUSING						
PZ	59	1		1	RETAINER						
	60	1	9X-4824	1	COVER-STARTING MOTOR						
NZ	61	1		3	INSULATOR						
NZ	62	1		1	BUSHING						
AVAILABLE REPAIR KIT(S) :											
J			3E-7860	1	KIT-BUSHING						
L			9X-4825	1	KIT-BRUSH (STARTER)						
P			3E-7861	1	KIT-LEVER						
N			8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
J-KIT MARKED J SERVICES PART(S) MARKED J L-KIT MARKED L SERVICES PART(S) MARKED L N-KIT MARKED N SERVICES PART(S) MARKED N P-KIT MARKED P SERVICES PART(S) MARKED P Z-NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

106-8559 STARTING MOTOR GP-ELECTRIC (contd.)

i01517590



GRAPHIC #1

g00707672

ELECTRICAL AND STARTING SYSTEM

108-3857 STARTING MOTOR GP-ELECTRIC

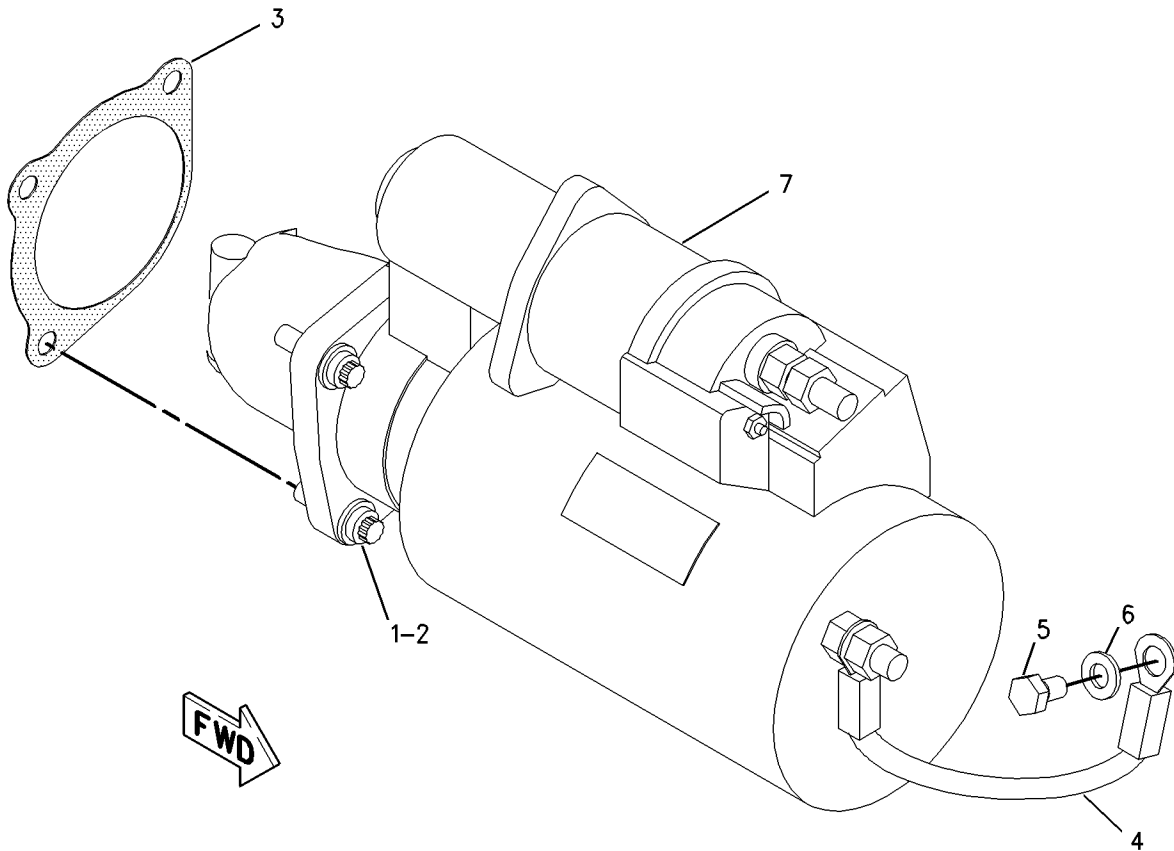
12 VOLT
AN ATTACHMENT

SMCS-1453

i01611116

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	108-7808	3	BOLT (M10X1.5X35MM)						
	2	1	6V-5839	3	WASHER (11X21X2.5MM THK)						
	3	1	3K-3257	1	GASKET						
	4	1	134-2730	1	WIRE AS						
M	5	1	8T-4191	1	BOLT (M10X1.5X16MM)						
	6	1	8T-4121	1	WASHER-HARD (11X21X2.5MM THK)						
Y	7	1	207-1508	1	STARTING MOTOR GP-ELECTRIC						508

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00833997

ELECTRICAL AND STARTING SYSTEM

111-4275 STARTING MOTOR GP-ELECTRIC

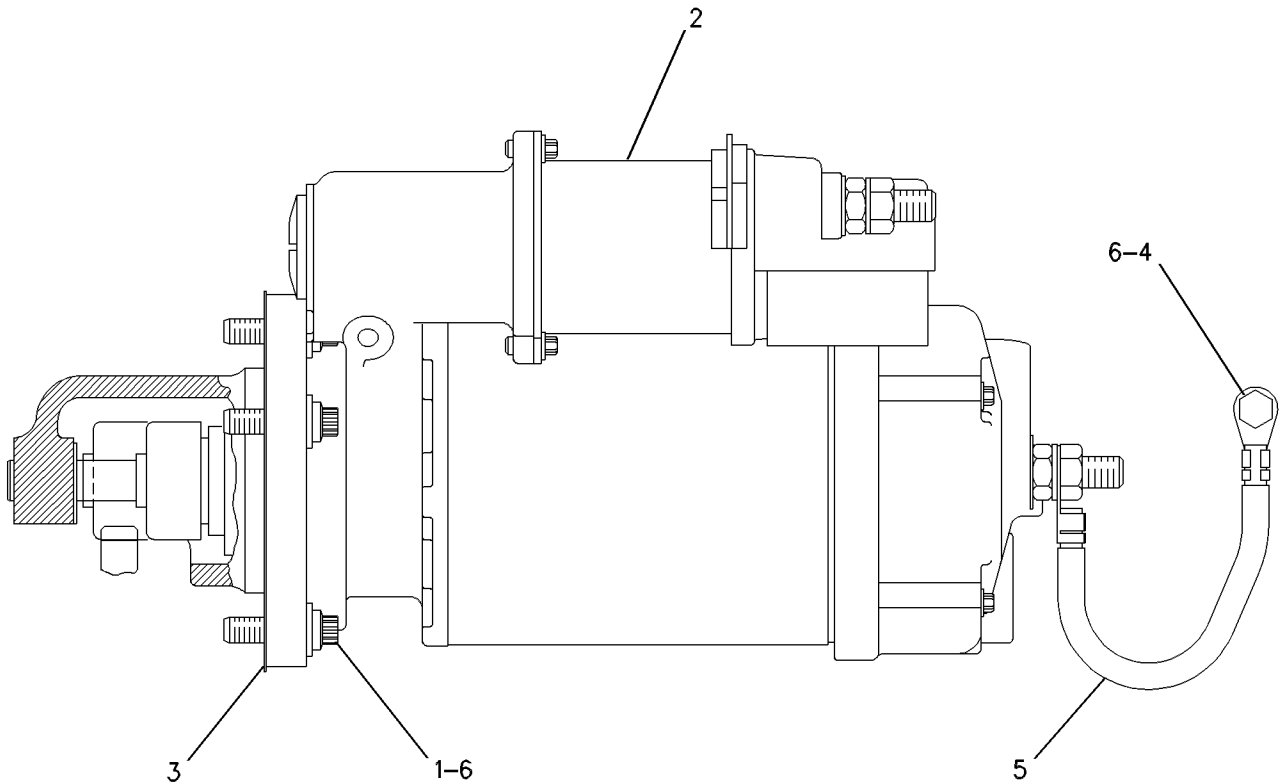
24 VOLT
AN ATTACHMENT

SMCS-1453

i01155337

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	118-9573	3	BOLT-12 POINT HEAD						
YR	2	1	106-8558	1	STARTING MOTOR GP-ELECTRIC						485
	3	1	3K-3257	1	GASKET						
M	4	1	8T-4191	1	BOLT (M10X1.50X16MM)						
	5	1	8Y-9603	1	CABLE AS-STARTING						
		1	1S-7251	1	TERMINAL (FOR 1/2IN BOLT)						
		1	1S-7252	1	TERMINAL (FOR 3/8IN BOLT)						
E		1	5P-0747		CABLE (00GA) (28CM)						
	6	1	8T-4121	4	WASHER (2.5MM THK)						

E-ORDER BY THE CENTIMETER
M-METRIC PART
R-REMG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00613782

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

131-1275 STARTING MOTOR GP-ELECTRIC*R

PART OF 135-2149 STARTING MOTOR GP-ELECTRIC

AN ATTACHMENT

SMCS-1453

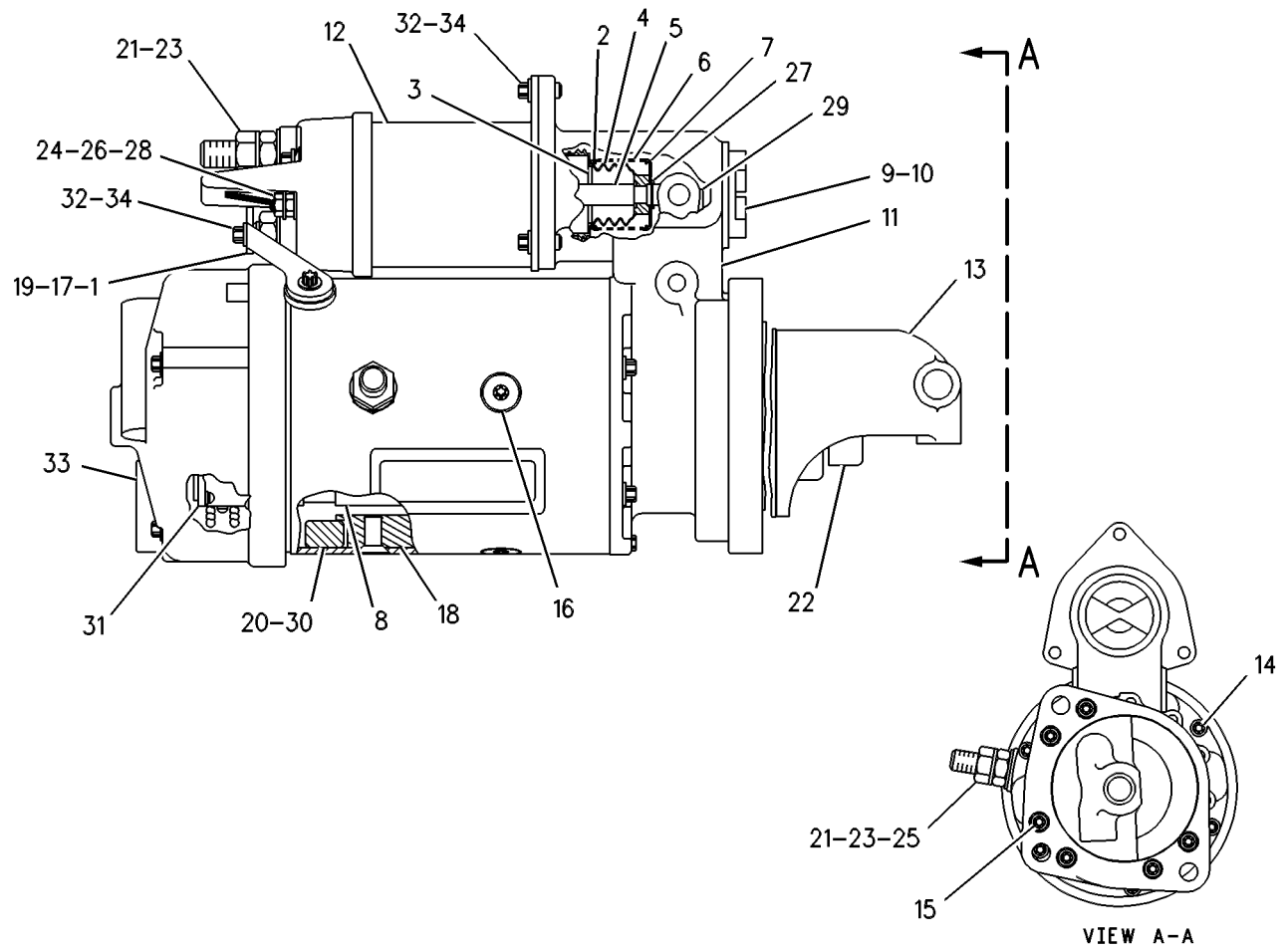
i01517072

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	9X-4271	1	CONNECTOR						
2		1	4M-1828	1	RETAINER-SPRING						
3		1	036-9821	1	WASHER						
4		1	7T-3269	1	BOOT						
5		1	7T-3270	1	PLUNGER AS						
6		1	9M-7609	1	SPRING						
7		1	4M-1827	1	RETAINER-SPRING						
8		1	137-1756	1	ARMATURE AS						
9		1	4M-1831	1	PLUG-LEVER HOUSING						
10		1	7L-2894	1	GASKET						
11		1	7X-1952	1	HOUSING AS-LEVER						
12		1	137-1727	1	TUBE AS						
		1	2S-4078	1	SEAL-O-RING						
		1	9S-6130	1	PLUG-O-RING						
13		1	137-1736	1	HOUSING AS						
14		1	036-9823	5	BOLT						
15		1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
16		1	3F-0379	7	SCREW-POLE SHOE						
17		1	7T-3451	1	INSULATOR-TERMINAL						
18		1	7X-1950	4	SHOE-POLE						
19		1	8T-8569	1	INSULATOR-TERMINAL						
20		1	7T-3454	1	INSULATOR						
21		1	7X-0562	2	WASHER-HARD (13.5X19X0.8MM THK)						
22		1	3E-7857	1	DRIVE AS-STARTING MOTOR						
23		1	6V-8188	2	NUT (1/2-13 THD)						
24		1	4B-2049	1	NUT (10-32 THD)						
25		1	3E-7854	1	TERMINAL-STARTING MOTOR						
26		1	8F-1434	1	LOCKWASHER						
27		1	2H-3429	1	RING-RETAINING						
28		1	8T-0328	1	WASHER-HARD (5.5X10X1MM THK)						
29		1	5M-3034	1	LOCKNUT						
30		1	9X-4248	1	COIL-STARTING MOTOR						
31		1	9X-4252	1	PLATE AS-STARTING MOTOR						
32		1	5S-7349	5	BOLT (1/4-20X0.5 IN)						
33		1	9X-4253	1	HOUSING AS						
34		1	8T-4205	5	WASHER-HARD (7.2X14.5X2MM THK)						
					AVAILABLE REPAIR KIT(S) :						
			9X-4251	1	KIT-BRUSH (STARTER) (INCLUDES SCREWS, BRUSH, RING, & SPRING)						
			3E-7861	1	KIT-LEVER (INCLUDES RINGS, NUT, GASKET, & LEVER)						
			3E-7860	1	KIT-BUSHING (INCLUDES RINGS, WASHERS, & BUSHING)						

ELECTRICAL AND STARTING SYSTEM

131-1275 STARTING MOTOR GP-ELECTRIC (contd.)

i01517072



GRAPHIC #1

g00287295

ELECTRICAL AND STARTING SYSTEM

132-1418 STARTING MOTOR GP-ELECTRIC

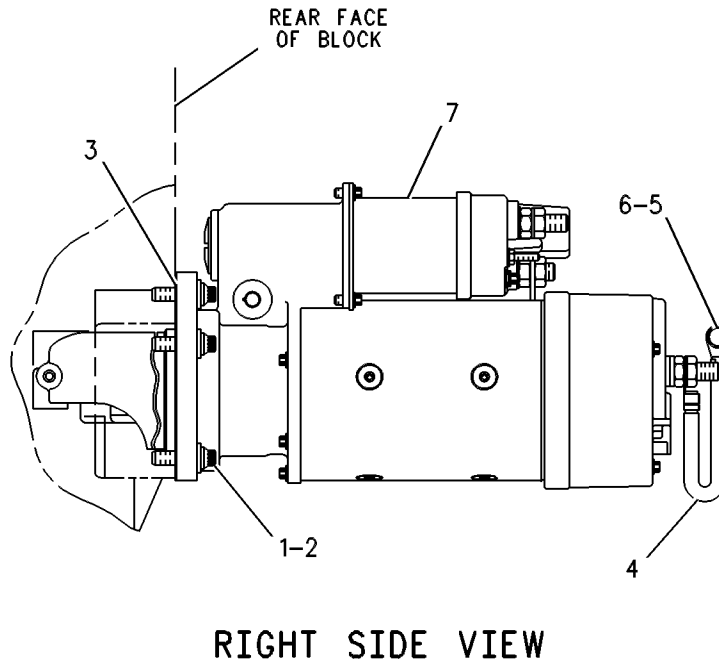
24 VOLT
AN ATTACHMENT

SMCS-1453

i00638696

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	108-7808	3	BOLT (M10X1.5X35MM)						
	2	1	6V-5839	3	WASHER (2.5MM THK)						
	3	1	3K-3257	1	GASKET						
	4	1	134-2730	1	WIRE AS						
M	5	1	8T-4191	1	BOLT (M10X1.50X16MM)						
	6	1	8T-4121	1	WASHER (2.5MM THK)						
YR	7	1	6V-5821	1	STARTING MOTOR GP-ELECTRIC						476

M - METRIC PART
R - REMFG PART MAY BE AVAILABLE
Y - SEPARATE ILLUSTRATION



GRAPHIC #1

g00250855

ELECTRICAL AND STARTING SYSTEM

135-2149 STARTING MOTOR GP-ELECTRIC

12 VOLT

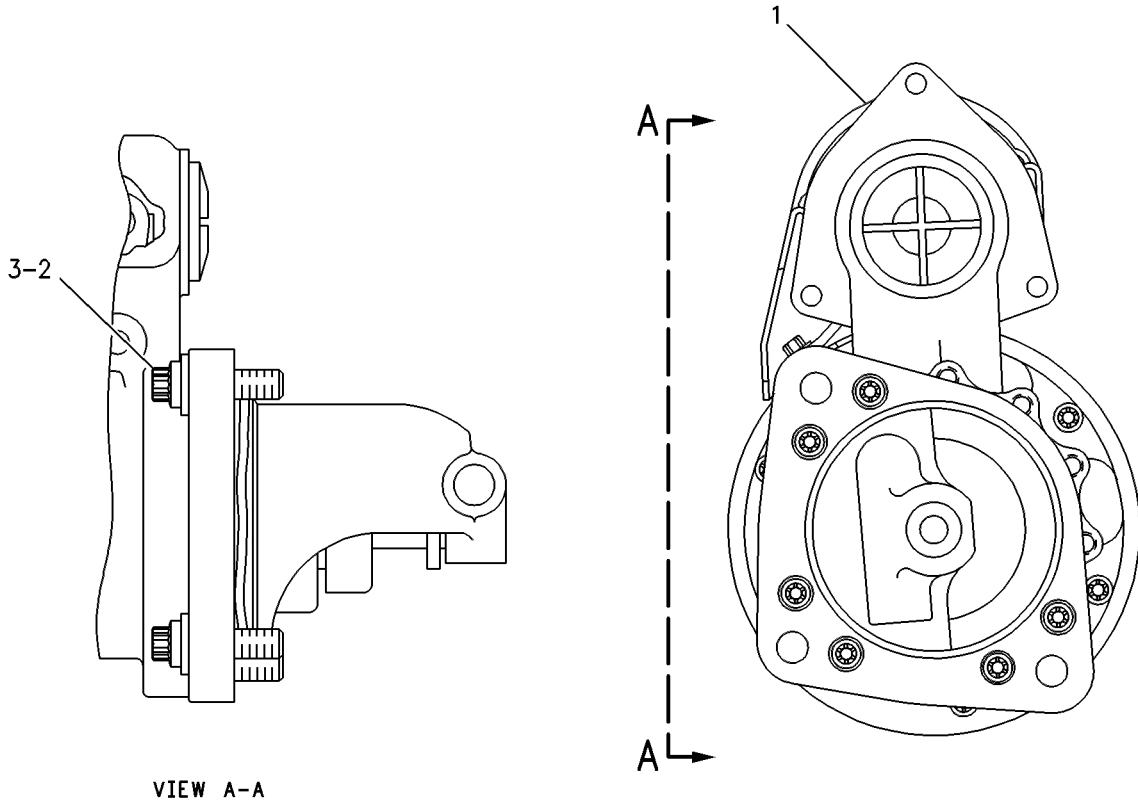
FOR USE WITH VERTICAL FLYWHEEL HOUSING WITH LEFT SIDE STARTER LOCATION
AN ATTACHMENT

SMCS-1453

i00795319

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	1	1	131-1275	1	STARTING MOTOR GP-ELECTRIC						492
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	8M-3175	3	WASHER-HARD						

M-METRIC PART
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00268189

ELECTRICAL AND STARTING SYSTEM

146-3505 STARTING MOTOR GP-ELECTRIC

12 VOLT. BASIC

PART OF 146-3638 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

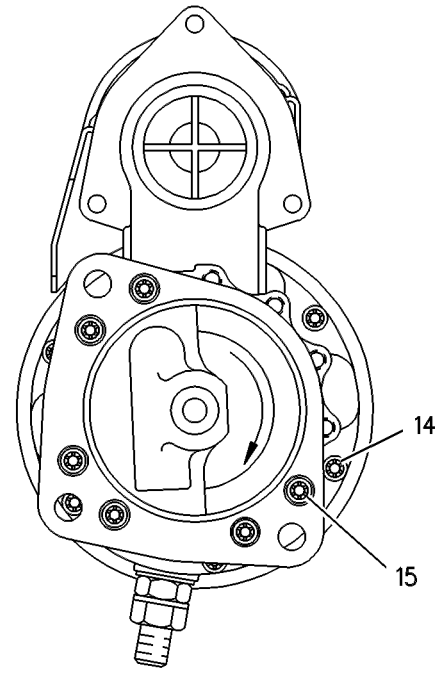
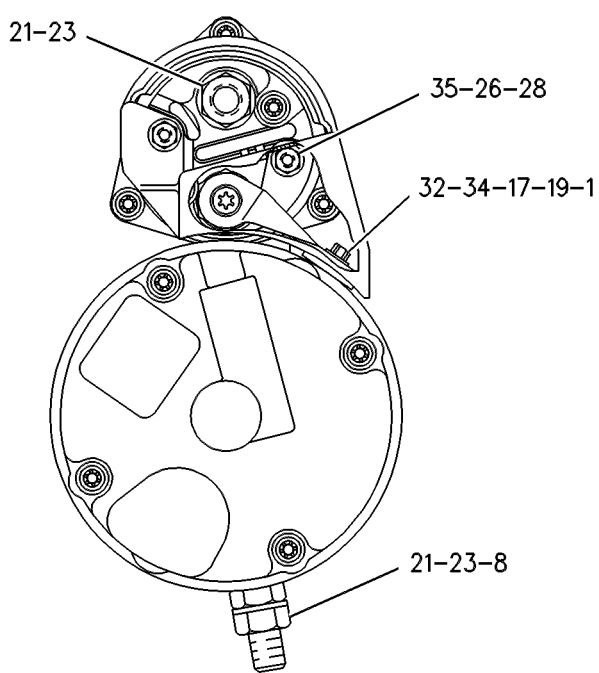
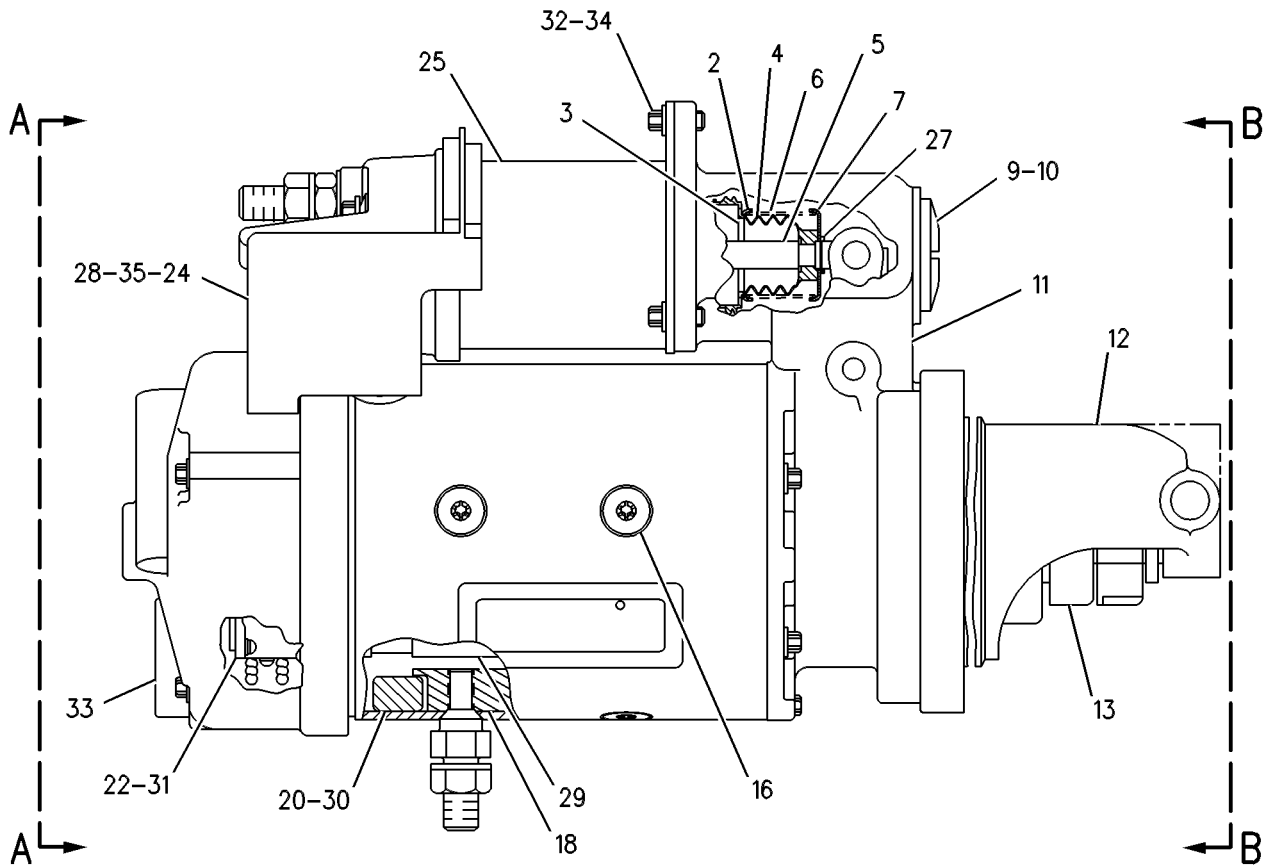
i01437081

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	9X-4271	1	CONNECTOR						
2		1	4M-1828	1	RETAINER-SPRING						
3		1	036-9821	1	WASHER						
4		1	7T-3269	1	BOOT						
5		1	7T-3270	1	PLUNGER AS						
6		1	9M-7609	1	SPRING						
7		1	4M-1827	1	RETAINER-SPRING						
8		1	8C-5639	1	TERMINAL						
9		1	4M-1831	1	PLUG-LEVER HOUSING						
10		1	7L-2894	1	GASKET						
11		1	7X-1952	1	HOUSING AS-LEVER						
12		1	7X-1954	1	HOUSING AS-DRIVE						
13		1	9X-8070	1	DRIVE AS-STARTING MOTOR						
14		1	036-9823	5	BOLT						
15		1	7X-3373	6	BOLT (5/16-18X.88 IN)						
16		1	3F-0379	7	SCREW-POLE SHOE						
17		1	7T-3451	1	INSULATOR-TERMINAL						
18		1	7X-1950	4	SHOE-POLE						
19		1	8T-8569	1	INSULATOR-TERMINAL						
20		1	7T-3454	1	INSULATOR						
21		1	7X-0562	2	WASHER-HARD (13.5X19X0.8MM THK)						
22		1	6V-6717	4	SCREW-WASHER HEAD						
23		1	6V-8188	2	NUT (1/2-13 THD)						
24		1	9X-4824	1	COVER-STARTING MOTOR						
25		1	9X-4250	1	SOLENOID AS						
26		1	8F-1434	1	LOCKWASHER						
27		1	2H-3429	1	RING-RETAINING						
28		1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
29		1	9X-4249	1	ARMATURE AS						
30		1	9X-4248	1	COIL-STARTING MOTOR						
31		1	9X-4252	1	PLATE AS-STARTING MOTOR						
32		1	5S-7349	5	BOLT (1/4-20X0.5 IN)						
33		1	9X-4253	1	HOUSING AS						
34		1	8T-4205	5	WASHER-HARD (7.2X14.5X2MM THK)						
35		1	6V-8378	2	NUT (10-32 THD)						
					AVAILABLE REPAIR KIT(S) :						
			7X-1958	1	KIT-LEVER (INCLUDES LEVER AS, SHAFT AS, O-RINGS, STOP, & NUT)						
			9X-4270	1	KIT-BUSHING (INCLUDES O-RINGS, STOP, NUT SCREW AS, WASHER, WICK, GASKET, SEAL, CUP, & BUSHING)						
			9X-4251	1	KIT-BRUSH (INCLUDES O-RING, BRUSH, SPRING, & SCREW AS)						

ELECTRICAL AND STARTING SYSTEM

146-3505 STARTING MOTOR GP-ELECTRIC (contd.)

i01437081



GRAPHIC #1

g00297470

ELECTRICAL AND STARTING SYSTEM

146-3638 STARTING MOTOR GP-ELECTRIC

12 VOLT
AN ATTACHMENT

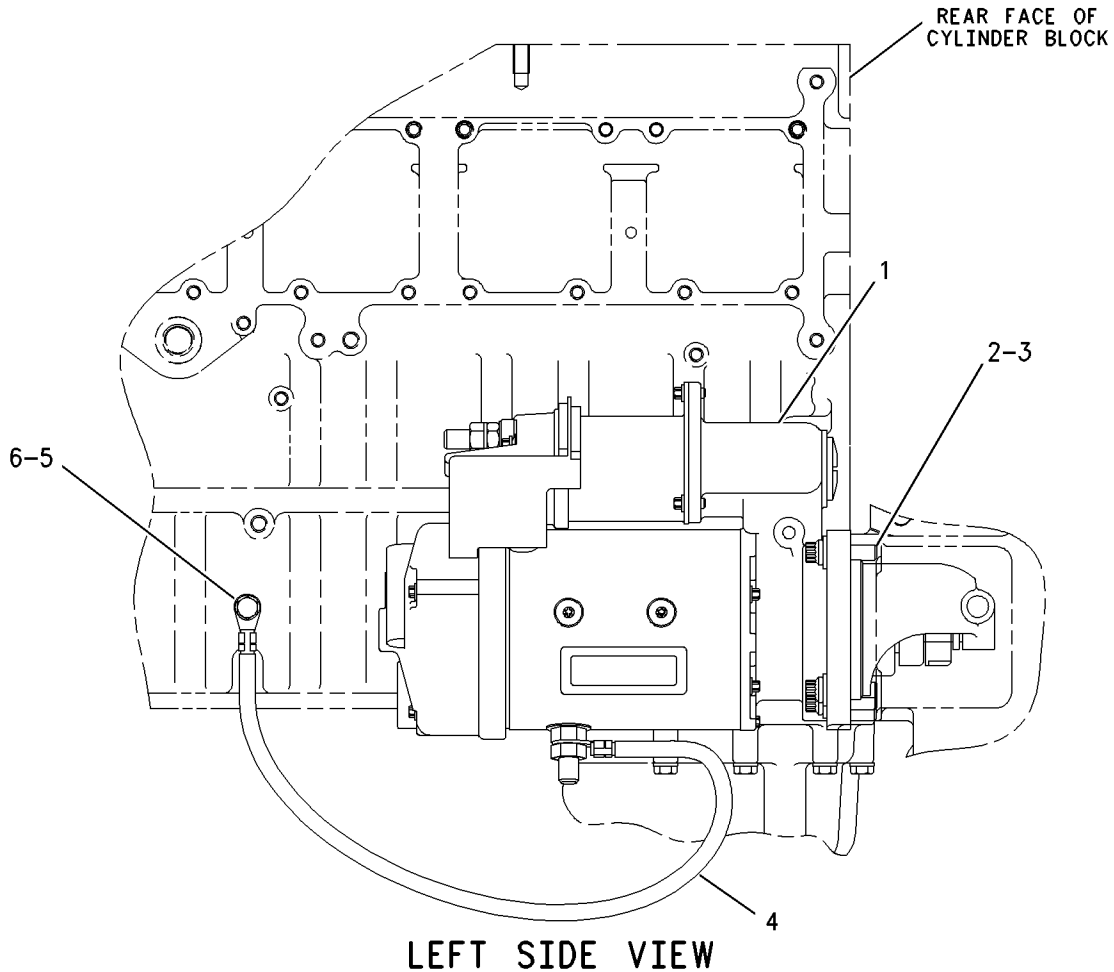
SMCS-1453

i01286513

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	146-3505	1	STARTING MOTOR GP-ELECTRIC						496
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	6V-5839	3	WASHER (2.5MM THK)						
	4	1	9Y-8241	1	WIRE AS						
M	5	1	8T-4200	1	BOLT (M8X1.25X16MM)						
	6	1	8T-4224	1	WASHER-HARD (8.8X16X2MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00681966

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

150-4247 STARTING MOTOR GP-ELECTRIC*R

24 VOLT

PART OF 153-9714 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

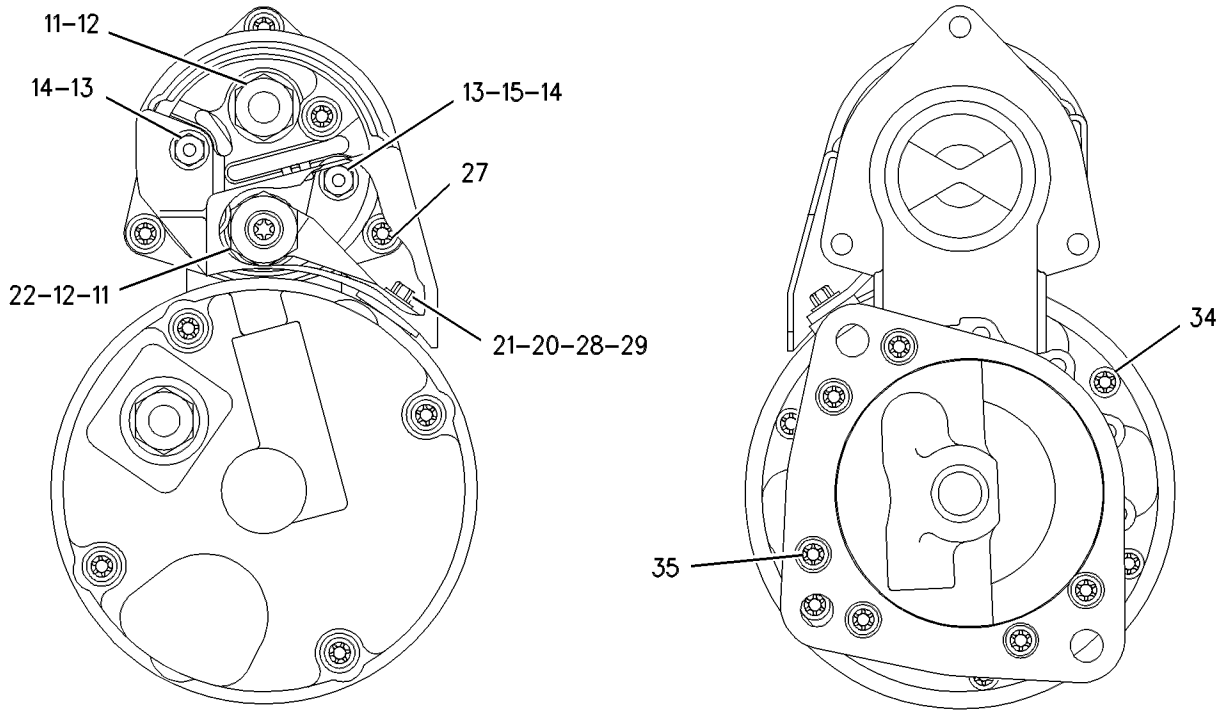
i01605271

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	4M-1828	1	RETAINER-SPRING						
2		1	036-9821	1	WASHER						
3		1	7T-3269	1	BOOT						
4		1	8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
5		1	9M-7609	1	SPRING						
6		1	4M-1827	1	RETAINER-SPRING						
7		1	4M-1831	1	PLUG-LEVER HOUSING						
8		1	7L-2894	1	GASKET						
9		1	9X-4824	1	COVER-STARTING MOTOR						
10		1	3E-7857	1	DRIVE AS-STARTING MOTOR						
11		1	7X-0562	4	WASHER-HARD (13.5X19X0.8MM THK)						
12		1	6V-8188	4	NUT (1/2-13 THD)						
13		1	4B-2049	2	NUT (10-32 THD)						
14		1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
15		1	8F-1434	1	LOCKWASHER						
16		1	2H-3429	1	RING-RETAINING						
17		1	3E-7859	1	SOLENOID AS-STARTER (24 VOLT)						
		1	3E-7853	1	TERMINAL-STARTING MOTOR						
18		1	9X-4821	1	PLATE AS						
19		1	3E-7855	1	ARMATURE AS-STARTER (24 VOLT)						
20		1	5S-7349	4	BOLT (1/4-20X0.5 IN)						
21		1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)						
22		1	3E-7853	1	TERMINAL-STARTING MOTOR						
23		1	102-9863	1	TERMINAL AS-STARTER						
24		1	106-7149	1	HOUSING AS-STARTER						
25		1	3E-7852	1	COIL-STARTING MOTOR						
26		1	7T-3454	1	INSULATOR						
27		1	9X-4271	1	CONNECTOR						
28		1	8T-8569	1	INSULATOR-TERMINAL						
29		1	7T-3451	1	INSULATOR-TERMINAL						
30		1	7X-1950	4	SHOE-POLE						
31		1	3F-0379	8	SCREW-POLE SHOE						
32		1	7X-1952	1	HOUSING AS-LEVER						
33		1	137-1736	1	HOUSING AS						
34		1	036-9823	5	BOLT						
35		1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
36		1	7T-3270	1	PLUNGER AS						
					AVAILABLE REPAIR KIT(S) :						
			3E-7860		KIT-BUSHING (INCLUDES BUSHING, SEAL, SPACER, WASHERS, CUP, RINGS GASKETS, PLUG, AND SCREWS)						
			3E-7861		KIT-LEVER (INCLUDES LEVER, NUT, RING, GASKET, AND O-RING SEALS)						
			9X-4825		KIT-BRUSH (STARTER) (INCLUDES SCREWS, BRUSH, SPRING, AND O-RING SEAL)						

ELECTRICAL AND STARTING SYSTEM

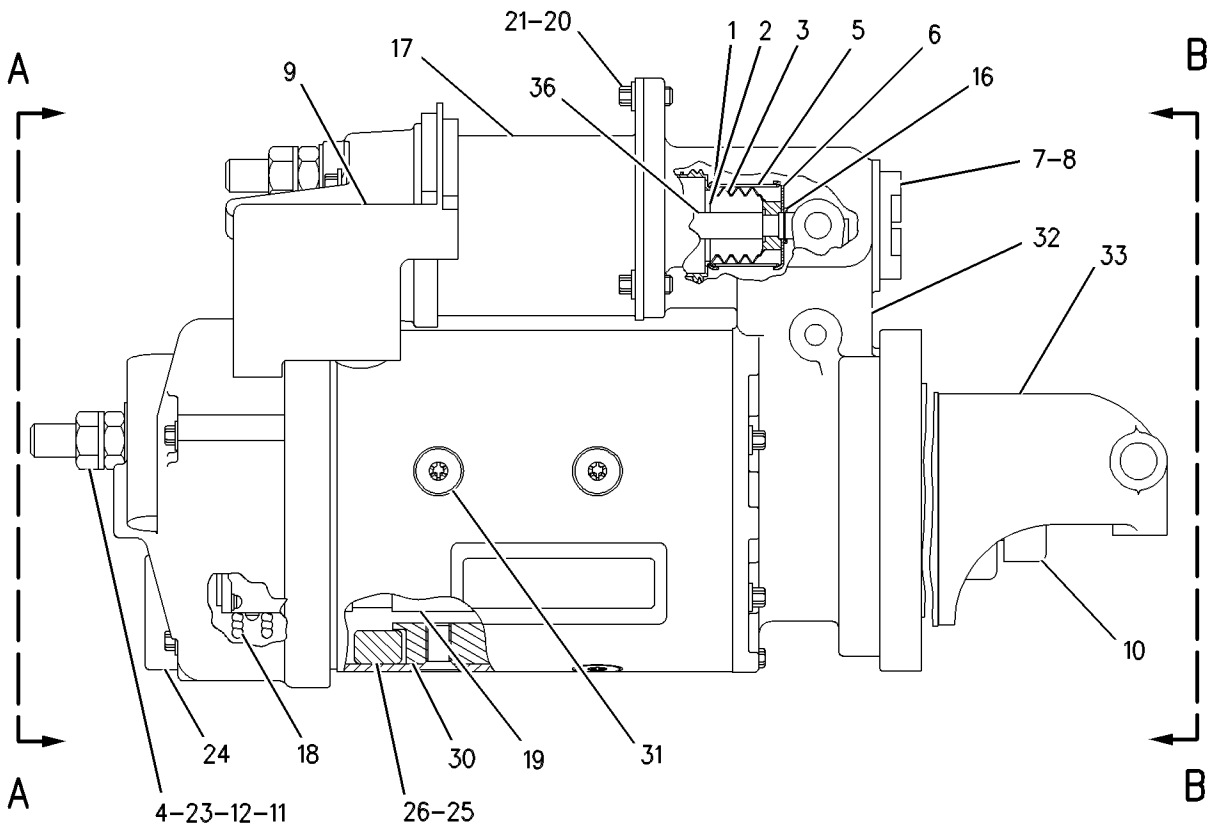
150-4247 STARTING MOTOR GP-ELECTRIC (contd.)

i01605271



VIEW A-A

VIEW B-B



GRAPHIC #1

g00442131

ELECTRICAL AND STARTING SYSTEM

151-8090 STARTING MOTOR GP-ELECTRIC

12V 42MT, OFFSET SKEWED NOSE CONE

PART OF 153-2369 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

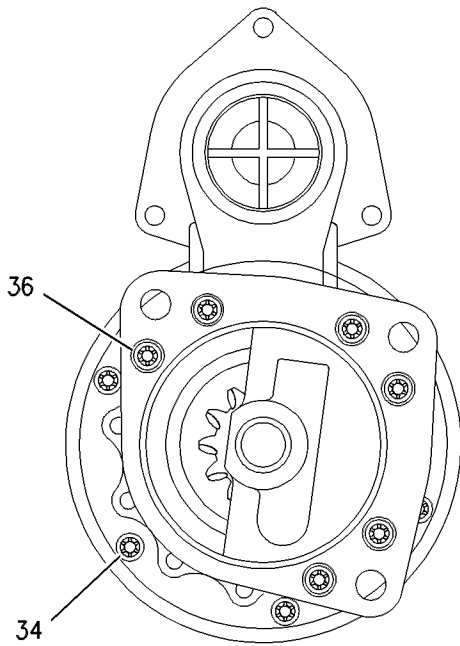
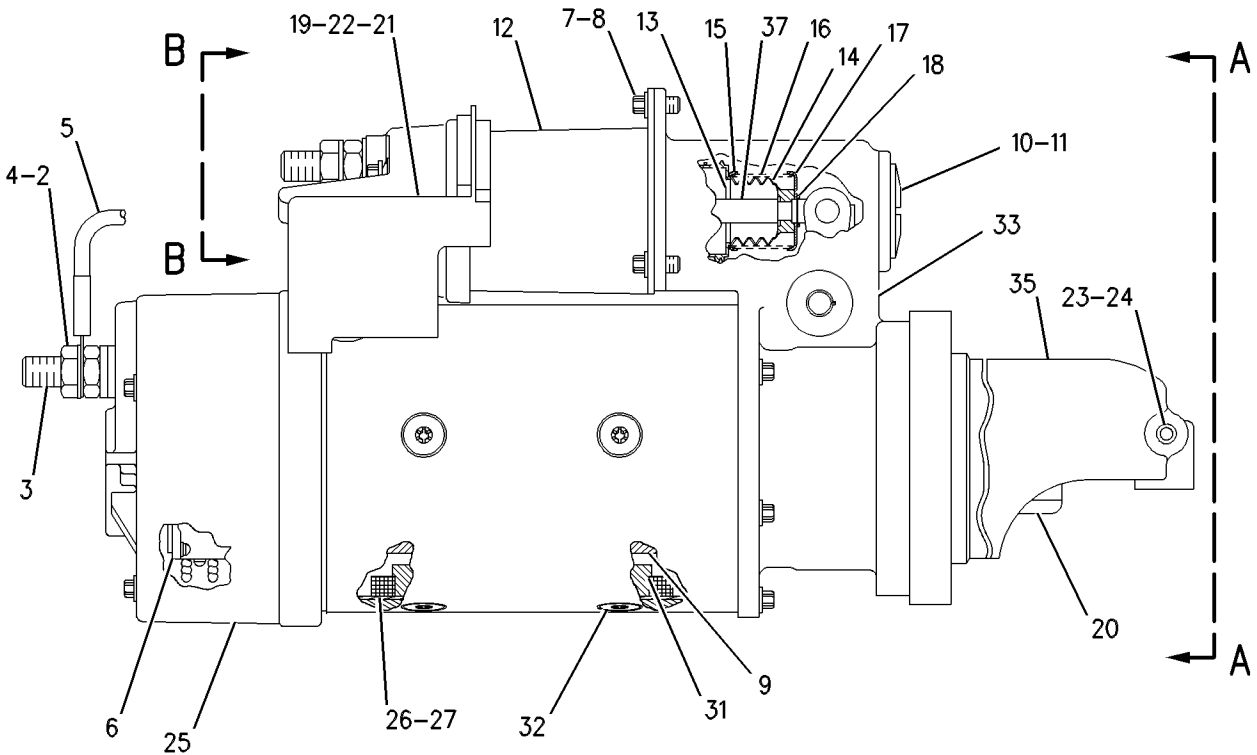
i00942260

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	8F-1434	2	LOCKWASHER (0.51MM THK)						
2		1	6V-8188	4	NUT (1/2-13 THD)						
3		1	8T-8566	1	TERMINAL AS						
4		1	7X-0562	4	WASHER-HARD (0.8MM THK)						
5		1	3T-3422	1	WIRE AS						
6		1	8T-8570	1	HOLDER AS-BRUSH						
7		1	5S-7349	4	BOLT (1/4-20X0.5IN)						
8		1	8T-4205	4	WASHER-HARD (2MM THK)						
9		1	7T-3275	1	ARMATURE AS						
10		1	4M-1831	1	PLUG-LEVER HOUSING						
11		1	7L-2894	1	GASKET						
12		1	3E-5449	1	SOLENOID AS-STARTING MOTOR (STARTER 24 VOLT)						
13		1	036-9821	1	WASHER						
14		1	7T-3269	1	BOOT						
15		1	4M-1828	1	RETAINER-SPRING						
16		1	9M-7609	1	SPRING						
17		1	4M-1827	1	RETAINER-SPRING						
18		1	2H-3429	1	RING-RETAINING						
19		1	4B-2049	3	NUT (10-32 THD)						
20		1	6N-3827	1	DRIVE AS-MOTOR						
21		1	9X-4824	1	COVER-STARTING MOTOR						
22		1	8T-0328	3	WASHER-HARD (1MM THK)						
23		1	9F-2247	1	PLUG-PIPE						
24		1	9F-2547	1	WICK						
25		1	7T-3279	1	HOUSING AS						
26		1	8T-8568	1	COIL AS-FIELD						
27		1	7T-3454	1	INSULATOR						
28		1	7T-3271	1	CONNECTOR						
29		1	8T-8569	1	INSULATOR-TERMINAL						
30		1	7T-3451	1	INSULATOR-TERMINAL						
31		1	8H-1141	4	SHOE-POLE						
32		1	3F-0379	8	SCREW-POLE SHOE						
33		1	105-9702	1	HOUSING AS						
34		1	036-9823	5	BOLT						
35		1	9X-9510	1	HOUSING AS						
36		1	7X-3373	6	BOLT (5/16-18X.88IN)						
37		1	7T-3270	1	PLUNGER AS						
					AVAILABLE REPAIR KIT(S) :						
			7T-3267		KIT-BUSHING						
			8T-9884		KIT-INSULATOR						
			7T-3268		KIT-LEVER						
			8T-9885		KIT-BRUSH						

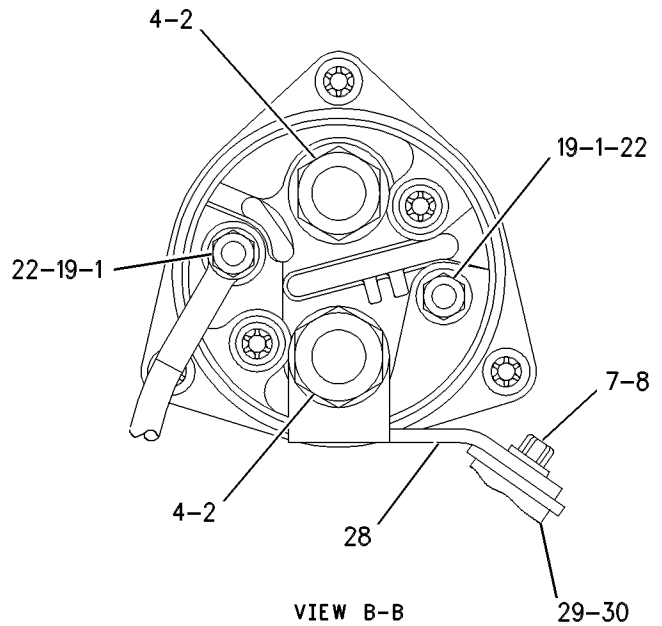
ELECTRICAL AND STARTING SYSTEM

151-8090 STARTING MOTOR GP-ELECTRIC (contd.)

i00942260



VIEW A-A



VIEW B-B

GRAPHIC #1

g00480891

ELECTRICAL AND STARTING SYSTEM

153-2369 STARTING MOTOR GP-ELECTRIC

42 MT, 12 VOLT. HIGH-ALTITUDE, COLD-CLIMATE CONDITIONS

AN ATTACHMENT

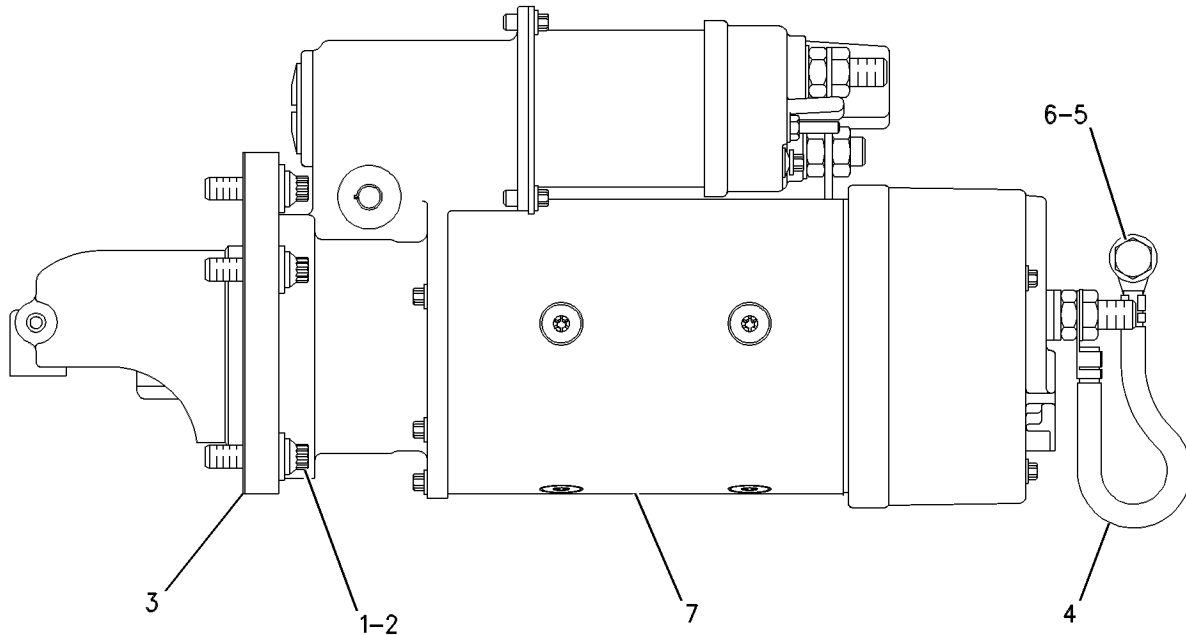
SMCS-1453

i00944175

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	108-7808	3	BOLT (M10X1.5X35MM)						
	2	1	6V-5839	3	WASHER (2.5MM THK)						
	3	1	3K-3257	1	GASKET						
	4	1	134-2730	1	WIRE AS						
M	5	1	8T-4191	1	BOLT (M10X1.50X16MM)						
	6	1	8T-4121	1	WASHER (2.5MM THK)						
Y	7	1	151-8090	1	STARTING MOTOR GP-ELECTRIC						502

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

g00481928

ELECTRICAL AND STARTING SYSTEM

153-9714 STARTING MOTOR GP-ELECTRIC

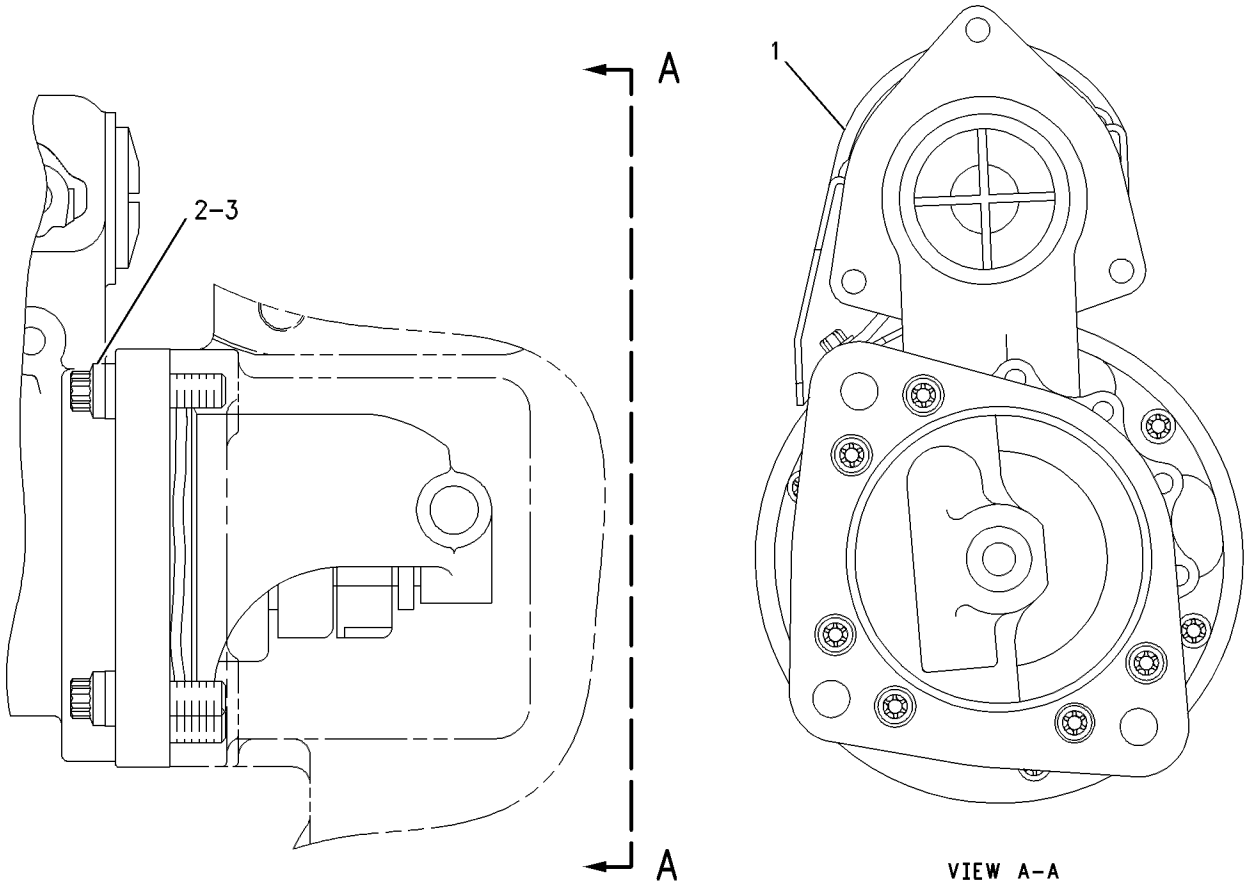
24 VOLT. LEFT HAND MOUNT
FOR USE WITH HIGH CAPACITY VEHICLE BATTERIES
AN ATTACHMENT
TYPE 1

SMCS-1453

i00864483

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	150-4247	1	STARTING MOTOR GP-ELECTRIC						500
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	8M-3175	3	WASHER-HARD						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00449478

ELECTRICAL AND STARTING SYSTEM

153-9714 STARTING MOTOR GP-ELECTRIC

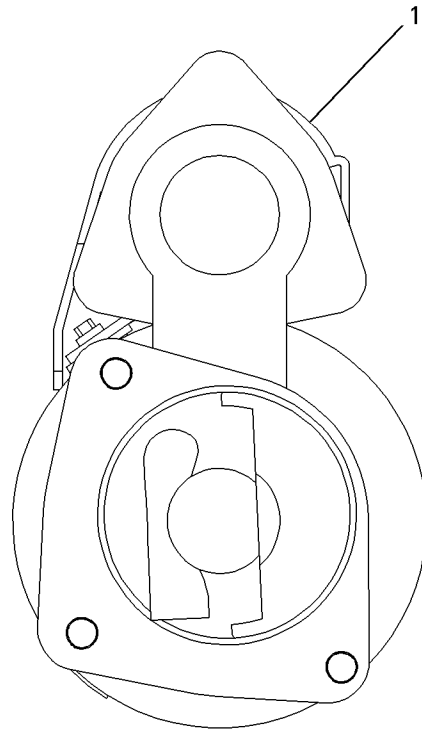
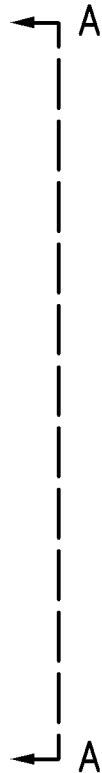
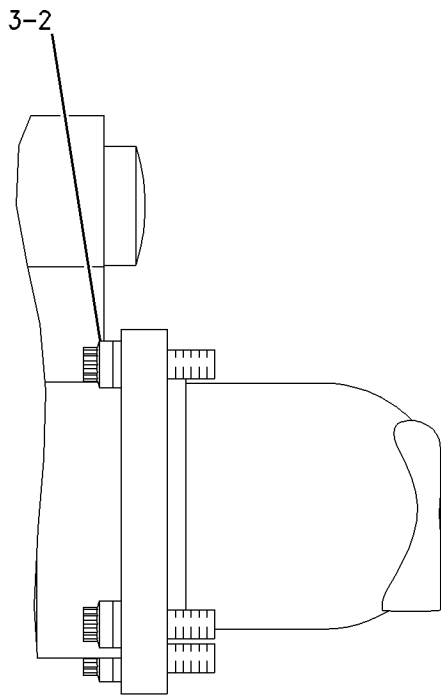
24 VOLT. LEFT HAND MOUNT
FOR USE WITH HIGH CAPACITY VEHICLE BATTERIES
AN ATTACHMENT
TYPE 2

SMCS-1453

i01576953

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	207-1516	1	STARTING MOTOR GP-ELECTRIC						512
M	2	1	108-7808	3	BOLT (M10X1.5X35MM)						
	3	1	8M-3175	3	WASHER-HARD (10.2X16X3MM THK)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



VIEW A-A

GRAPHIC #1

g00821273

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

207-1508 STARTING MOTOR GP-ELECTRIC

12 VOLT

PART OF 108-3857 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

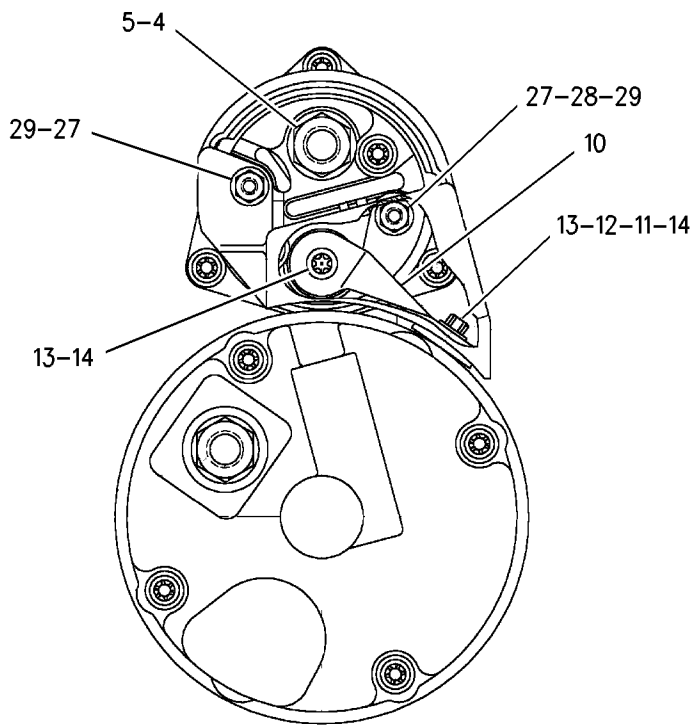
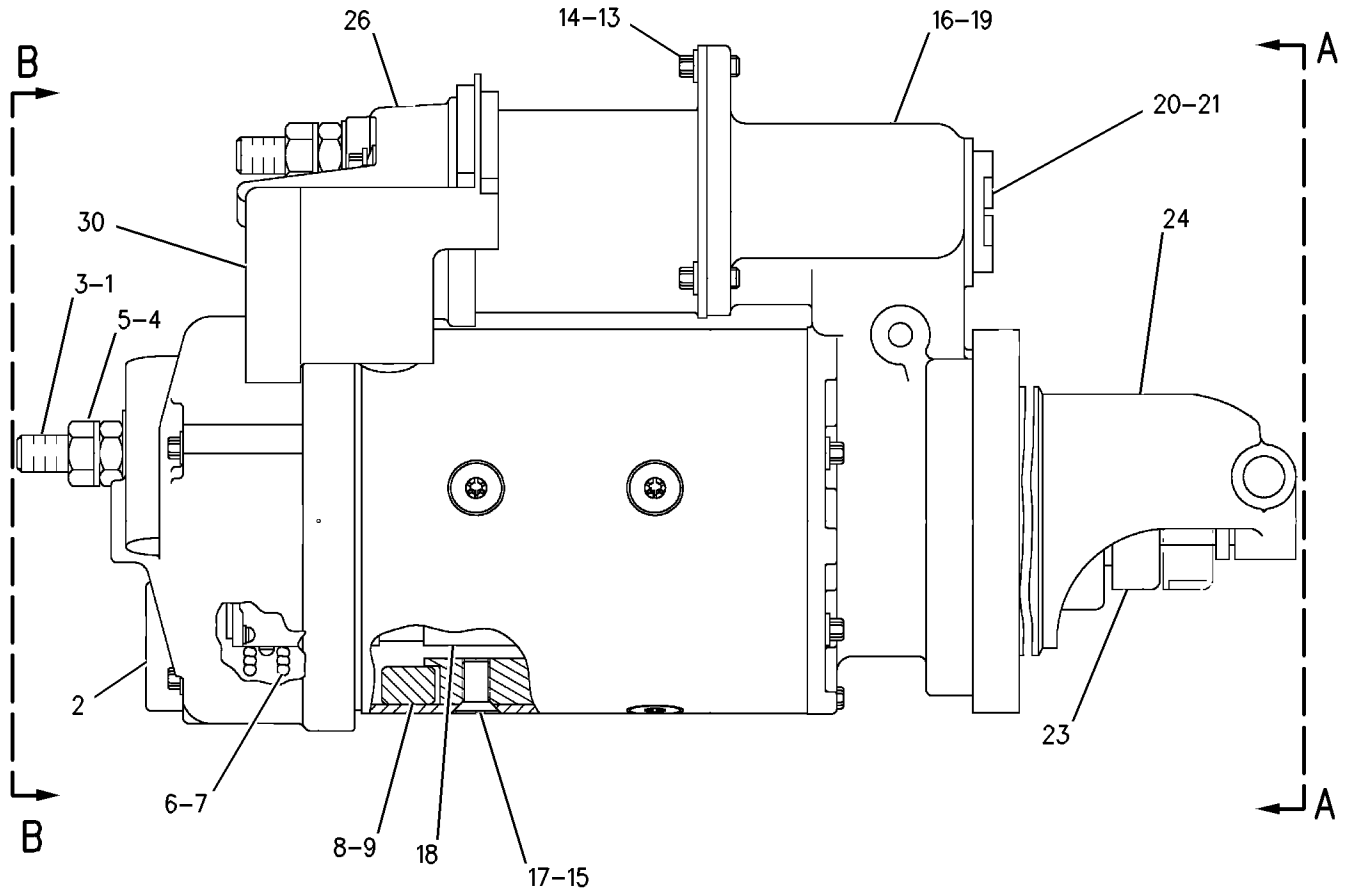
i01611117

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
2		1	106-7149	1	HOUSING AS-STARTER						
3		1	102-9863	1	TERMINAL AS-STARTER						
4		1	6V-8188	3	NUT (1/2-13 THD)						
5		1	7X-0562	3	WASHER-HARD (13.5X19X0.8MM THK)						
6		1	9X-4251	1	KIT-BRUSH (STARTER)						
7		1	9X-4252	1	PLATE AS-STARTING MOTOR						
8		1	9X-4248	1	COIL-STARTING MOTOR						
9		1	7T-3454	1	INSULATOR						
10		1	9X-4271	1	CONNECTOR						
11		1	7T-3451	1	INSULATOR-TERMINAL						
12		1	8T-8569	1	INSULATOR-TERMINAL						
13		1	5S-7349	5	BOLT (1/4-20X0.5 IN)						
14		1	8T-4205	5	WASHER-HARD (7.2X14.5X2MM THK)						
15		1	7X-1950	4	SHOE-POLE						
16		1	7X-1958	1	KIT-LEVER (STARTER)						
17		1	3F-0379	8	SCREW-POLE SHOE						
18		1	9X-4249	1	ARMATURE AS						
19		1	7X-1952	1	HOUSING AS-LEVER						
20		1	4M-1831	1	PLUG-LEVER HOUSING						
21		1	7L-2894	1	GASKET						
22		1	036-9823	5	BOLT						
23		1	7X-1953	1	DRIVE AS-MOTOR						
24		1	7X-1954	1	HOUSING AS-DRIVE						
25		1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
26		1	206-8786	1	KIT-SOLENOID						
27		1	6V-8378	2	NUT (10-32 THD)						
28		1	8F-1434	1	LOCKWASHER						
29		1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
30		1	9X-4824	1	COVER-STARTING MOTOR						
					AVAILABLE REPAIR KIT(S) :						
			9X-4270	1	KIT-BUSHING (STARTER)						

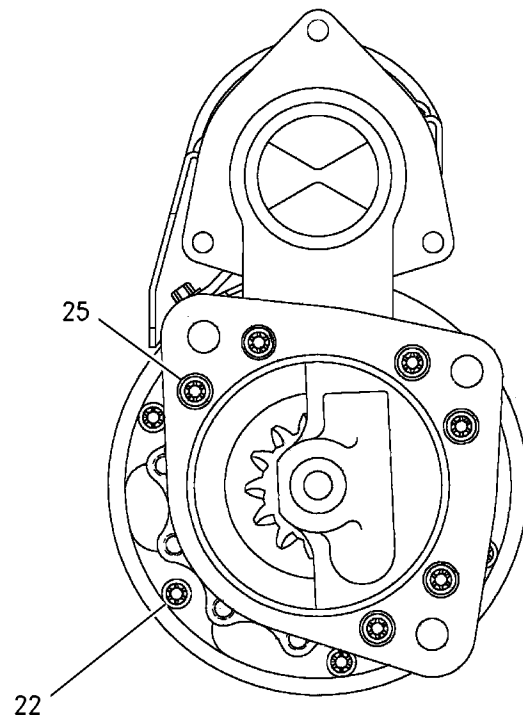
ELECTRICAL AND STARTING SYSTEM

207-1508 STARTING MOTOR GP-ELECTRIC (contd.)

i01611117



VIEW B-B



VIEW A-A

GRAPHIC #1

g00834392

ELECTRICAL AND STARTING SYSTEM

207-1510 STARTING MOTOR GP-ELECTRIC

12 VOLT

PART OF 7E-6306 STARTING MOTOR GP-ELECTRIC
ALSO AN ATTACHMENT

SMCS-1453

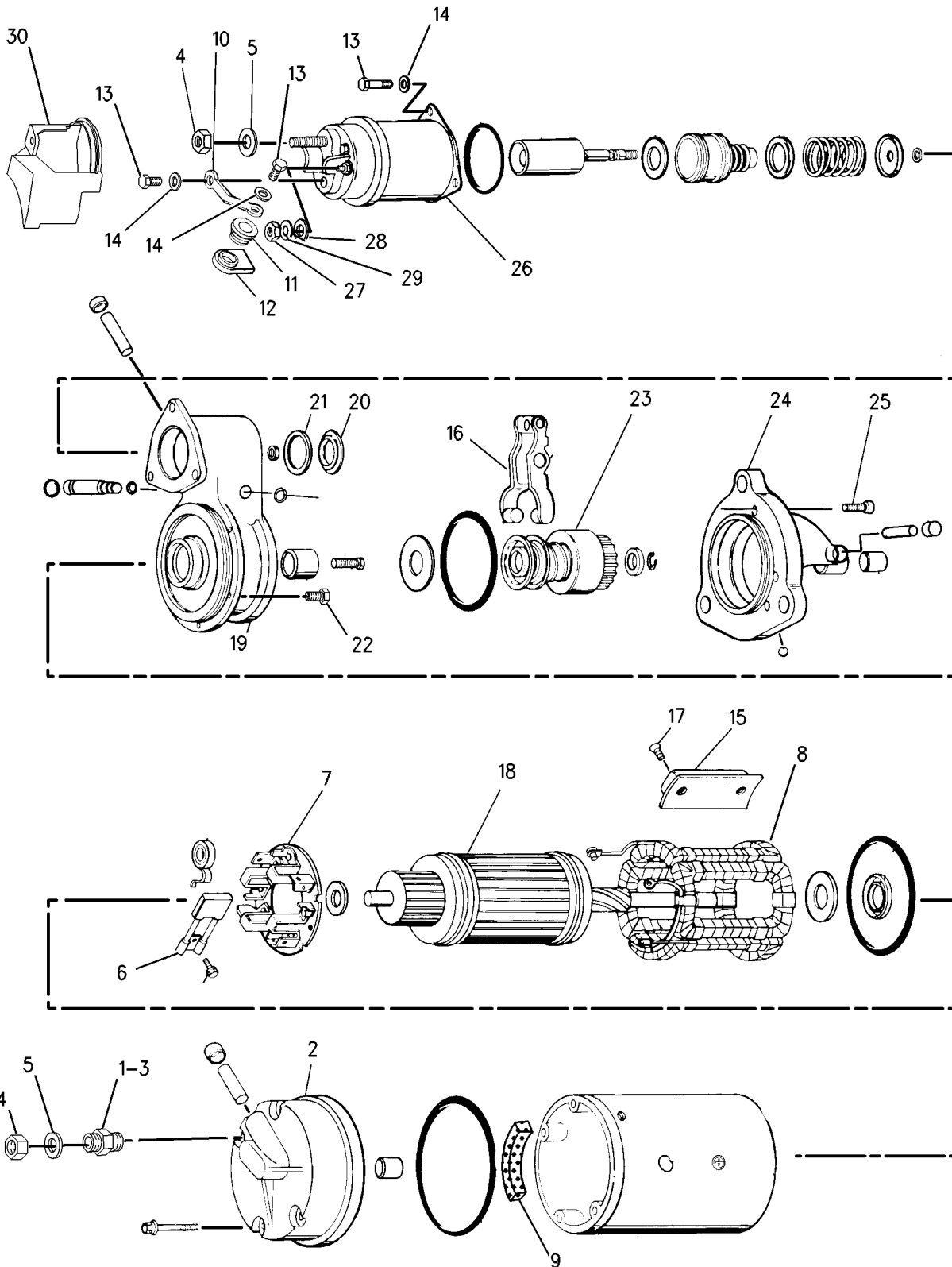
i01593454

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
2		1	106-7149	1	HOUSING AS-STARTER						
3		1	102-9863	1	TERMINAL AS-STARTER						
4		1	6V-8188	3	NUT (1/2-13 THD)						
5		1	7X-0562	3	WASHER-HARD (13.5X19X0.8MM THK)						
6		1	9X-4251	1	KIT-BRUSH (STARTER)						
7		1	9X-4252	1	PLATE AS-STARTING MOTOR						
8		1	9X-4248	1	COIL-STARTING MOTOR						
9		1	7T-3454	1	INSULATOR						
10		1	9X-4271	1	CONNECTOR						
11		1	7T-3451	1	INSULATOR-TERMINAL						
12		1	8T-8569	1	INSULATOR-TERMINAL						
13		1	5S-7349	5	BOLT (1/4-20X0.5 IN)						
14		1	8T-4205	5	WASHER-HARD (7.2X14.5X2MM THK)						
15		1	7X-1950	4	SHOE-POLE						
16		1	7X-1958	1	KIT-LEVER (STARTER)						
17		1	3F-0379	8	SCREW-POLE SHOE						
18		1	9X-4249	1	ARMATURE AS						
19		1	7X-1952	1	HOUSING AS-LEVER						
20		1	4M-1831	1	PLUG-LEVER HOUSING						
21		1	7L-2894	1	GASKET						
22		1	036-9823	5	BOLT						
23		1	9X-8070	1	DRIVE AS-STARTING MOTOR						
24		1	7X-1954	1	HOUSING AS-DRIVE						
25		1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
26		1	206-8786	1	KIT-SOLENOID						
27		1	6V-8378	2	NUT (10-32 THD)						
28		1	8F-1434	1	LOCKWASHER						
29		1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
30		1	9X-4824	1	COVER-STARTING MOTOR						
					AVAILABLE REPAIR KIT(S) :						
			9X-4270		KIT-BUSHING (STARTER)						

ELECTRICAL AND STARTING SYSTEM

207-1510 STARTING MOTOR GP - ELECTRIC (contd.)

i01593454



GRAPHIC #1

g00827667

ELECTRICAL AND STARTING SYSTEM

207-1516 STARTING MOTOR GP-ELECTRIC

24 VOLT

PART OF 153-9714 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS - 1453

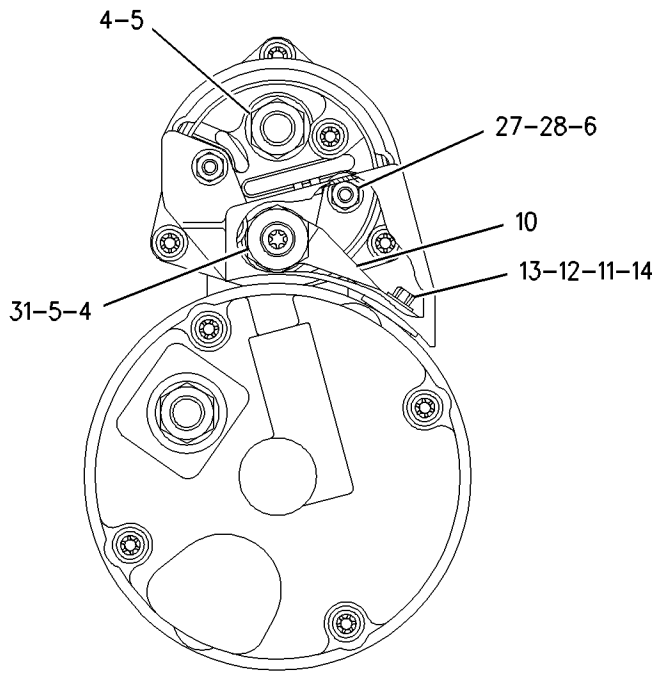
i01577246

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1		1	9X-4825	1	KIT-BRUSH (STARTER)						
2		1	106-7149	1	HOUSING AS-STARTER						
3		1	8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
4		1	6V-8188	4	NUT (1/2-13 THD)						
5		1	7X-0562	4	WASHER-HARD (13.5X19X0.8MM THK)						
6		1	8T-0328	2	WASHER-HARD (5.5X10X1MM THK)						
7		1	9X-4821	1	PLATE AS						
8		1	3E-7852	1	COIL-STARTING MOTOR						
9		1	7T-3454	1	INSULATOR						
10		1	9X-4271	1	CONNECTOR						
11		1	7T-3451	1	INSULATOR-TERMINAL						
12		1	8T-8569	1	INSULATOR-TERMINAL						
13		1	5S-7349	4	BOLT (1/4-20X0.5 IN)						
14		1	8T-4205	4	WASHER-HARD (7.2X14.5X2MM THK)						
15		1	7X-1950	4	SHOE-POLE						
16		1	3E-7861	1	KIT-LEVER						
17		1	3F-0379	8	SCREW-POLE SHOE						
18		1	3E-7855	1	ARMATURE AS-STARTER (24 VOLT)						
19		1	7X-1952	1	HOUSING AS-LEVER						
20		1	4M-1831	1	PLUG-LEVER HOUSING						
21		1	7L-2894	1	GASKET						
22		1	036-9823	5	BOLT						
23		1	3E-7857	1	DRIVE AS-STARTING MOTOR						
24		1	137-1736	1	HOUSING AS						
25		1	7X-3373	6	BOLT (5/16-18X0.88 IN)						
26		1	206-8784	1	SOLENOID AS-STARTING MOTOR						
27		1	6V-8378	2	NUT (10-32 THD)						
28		1	8F-1434	1	LOCKWASHER						
29		1	102-9863	1	TERMINAL AS-STARTER						
30		1	9X-4824	1	COVER-STARTING MOTOR						
31		1	3E-7853	1	TERMINAL-STARTING MOTOR						
					AVAILABLE REPAIR KIT(S) :						
					3E-7860						
					KIT-BUSHING						
					(INCLUDES BUSHING, SEAL, SPACER, WASHERS, CUP, RINGS, GASKETS, PLUG AND SCREWS)						

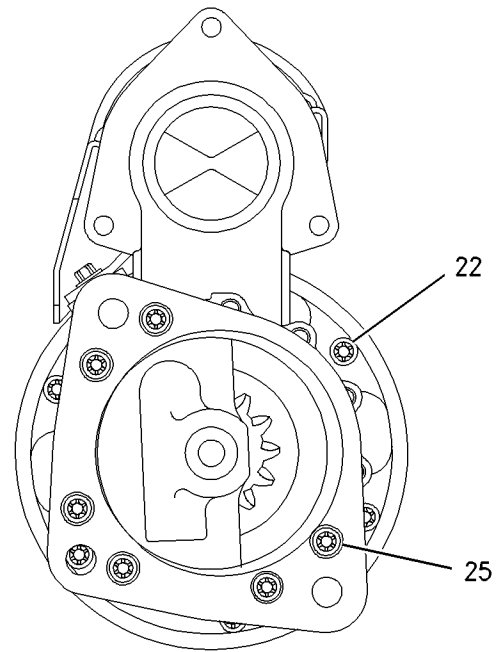
ELECTRICAL AND STARTING SYSTEM

207-1516 STARTING MOTOR GP-ELECTRIC (contd.)

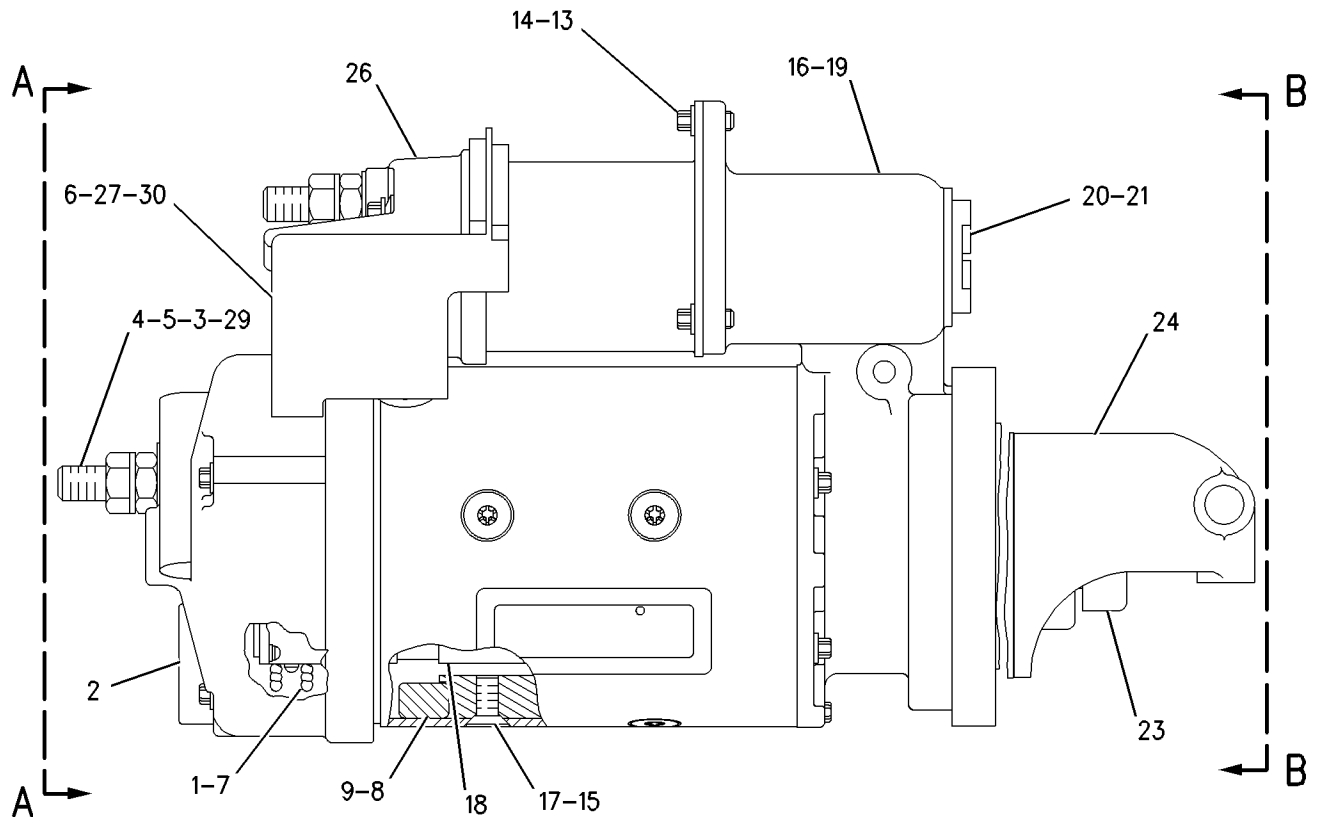
i01577246



VIEW A-A



VIEW B-B



GRAPHIC #1

g00820790

ELECTRICAL AND STARTING SYSTEM

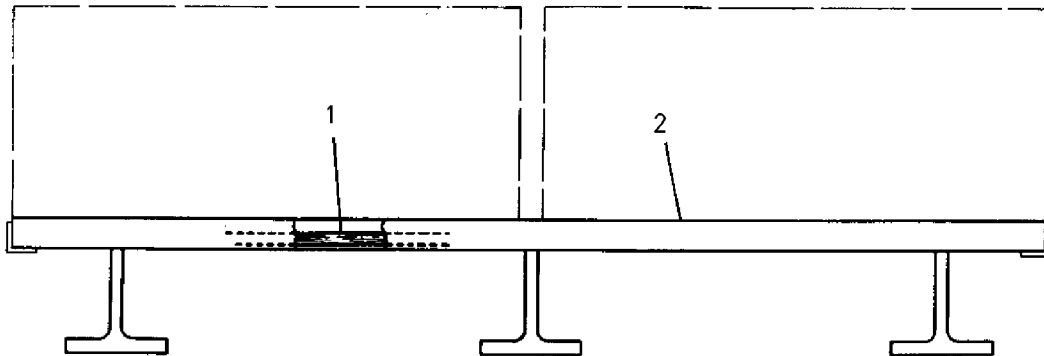
3N-7056 SUPPORT GP-BATTERY

FLOOR TYPE, WILL HOLD 2 BATTERIES
AN ATTACHMENT

SMCS-7257

i01380951

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3N-7055	1	BOARD						
	2	1	3N-7054	1	SUPPORT AS-BATTERY						



GRAPHIC #1

g00729953

ELECTRICAL AND STARTING SYSTEM

122-5053 VALVE GP-SOLENOID PART OF 162-9608 PUMP GP-UNIT INJECTOR HYD

SMCS-5479

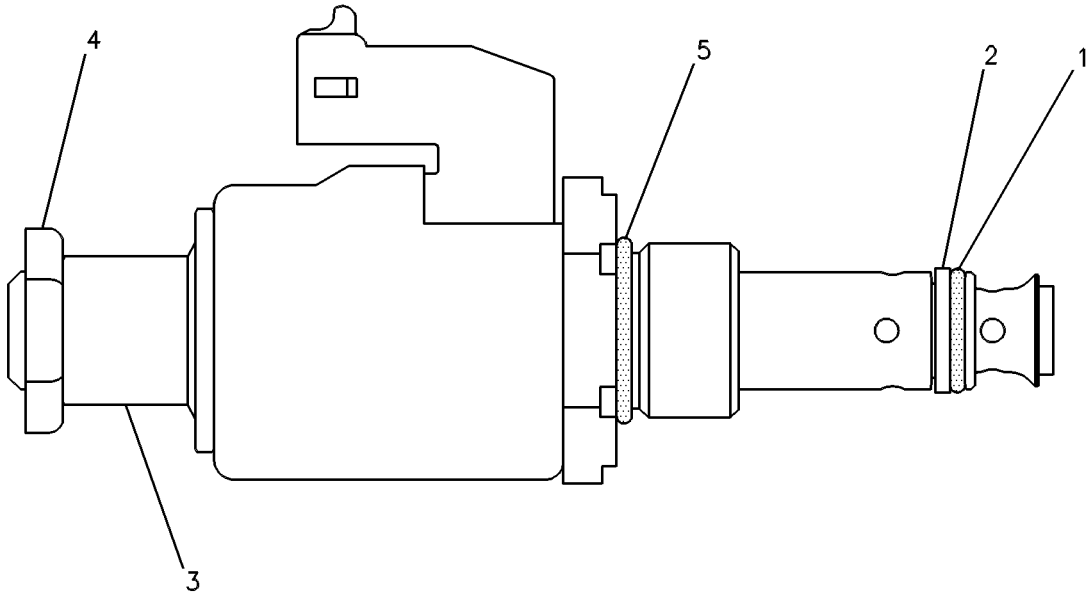
i01546719

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
JZ	1	1		1	SEAL-O-RING						
JZ	2	1		1	RING-BACKUP						
JZ	3	1		1	SPACER						
JZ	4	1		1	NUT-RETAINER						
JZ	5	1		1	SEAL-O-RING						

AVAILABLE REPAIR KIT(S) :

J	9X-1484	1	KIT-SEAL
---	----------------	---	----------

J-KIT MARKED J SERVICES PARTS MARKED J
Z-NOT SERVICED SEPARATELY



GRAPHIC #1

g00085024

ELECTRICAL AND STARTING SYSTEM

191-6113 WIRING GP-AIR INLET HEATER

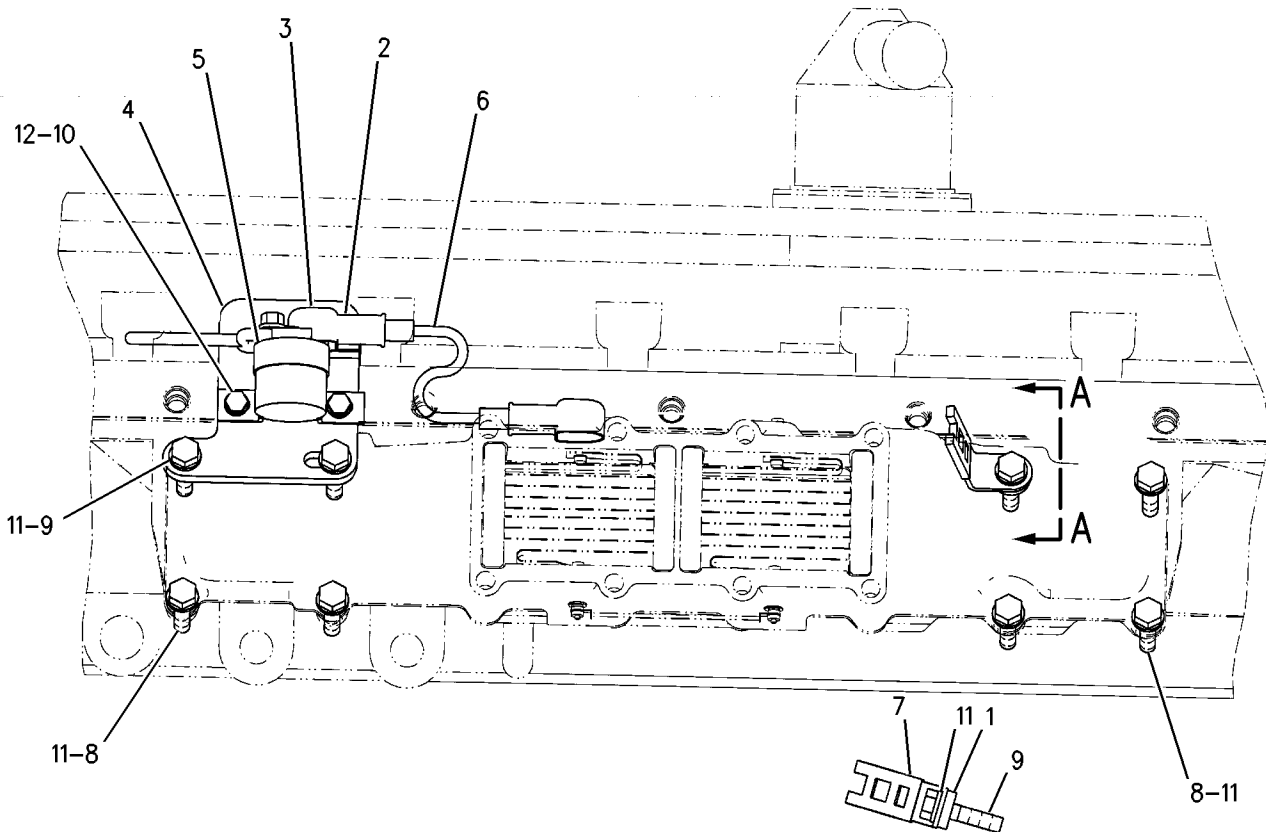
24 VOLT FRONT
AN ATTACHMENT

SMCS-1090, 1408

i01488469

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7S-6369	1	WASHER (.344X.75X.188 IN THK)						
	2	1	003-9835	2	PROTECTOR						
M	3	1	112-6646	2	LOCKNUT						
	4	1	145-4926	1	BRACKET AS						
M		1	6V-9632	2	NUT-WELD (M6X1 THD)						
	5	1	148-0757	1	SWITCH AS-MAGNETIC (INLET AIR HEATER)						
	6	1	179-9355	1	WIRE AS						
	7	1	4P-8134	1	CLIP						
M	8	1	6V-2317	5	BOLT (M8X1.25X30MM)						
M	9	1	6V-5218	3	BOLT (M8X1.25X35MM)						
M	10	1	8T-4970	2	BOLT (M6X1X14MM)						
	11	1	9M-1974	8	WASHER-HARD (8.8X16X2MM THK)						
	12	1	9X-8256	2	WASHER (6.6X12X2MM THK)						

M-METRIC PART



SECTION A-A

GRAPHIC #1

g00775083

ELECTRICAL AND STARTING SYSTEM

199-3780 WIRING GP-AIR INLET HEATER

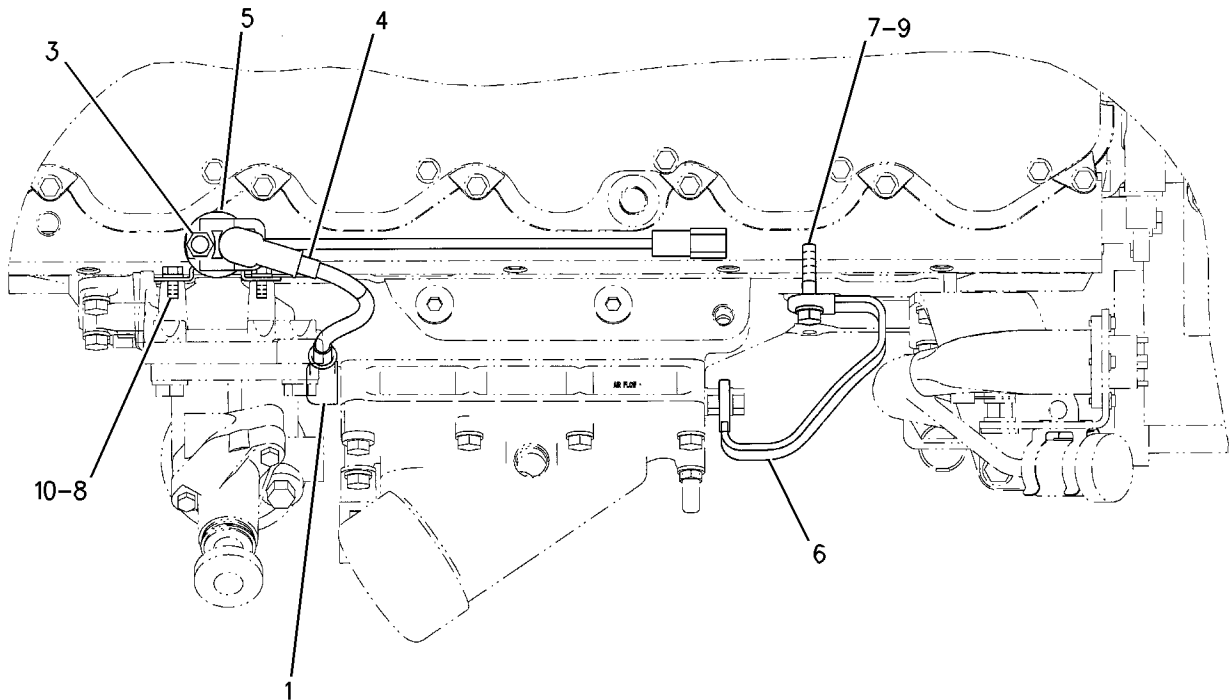
24 VOLT, PROVIDES RELAY SWITCH
FOR USE WITH AIR INLET HEATER/SOLENOID, MID MOUNT FUEL FILTER BASE
AN ATTACHMENT

SMCS-1090, 1408

i01459632

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	003-9835	2	PROTECTOR						
M	3	1	112-6646	2	LOCKNUT						
	4	1	147-0286	1	WIRE AS						
	5	1	148-0757	1	SWITCH AS-MAGNETIC						
	6	1	179-9356	1	STRAP-GROUNDING						
M	7	1	6V-5219	1	BOLT (M8X1.25X40MM)						
M	8	1	8T-4970	2	BOLT (M6X1X14MM)						
	9	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
	10	1	9X-8256	2	WASHER (6.6X12X2MM THK)						

M-METRIC PART



TOP VIEW

GRAPHIC #1

g00763774

ELECTRICAL AND STARTING SYSTEM

201-8436 WIRING GP-AIR INLET HEATER

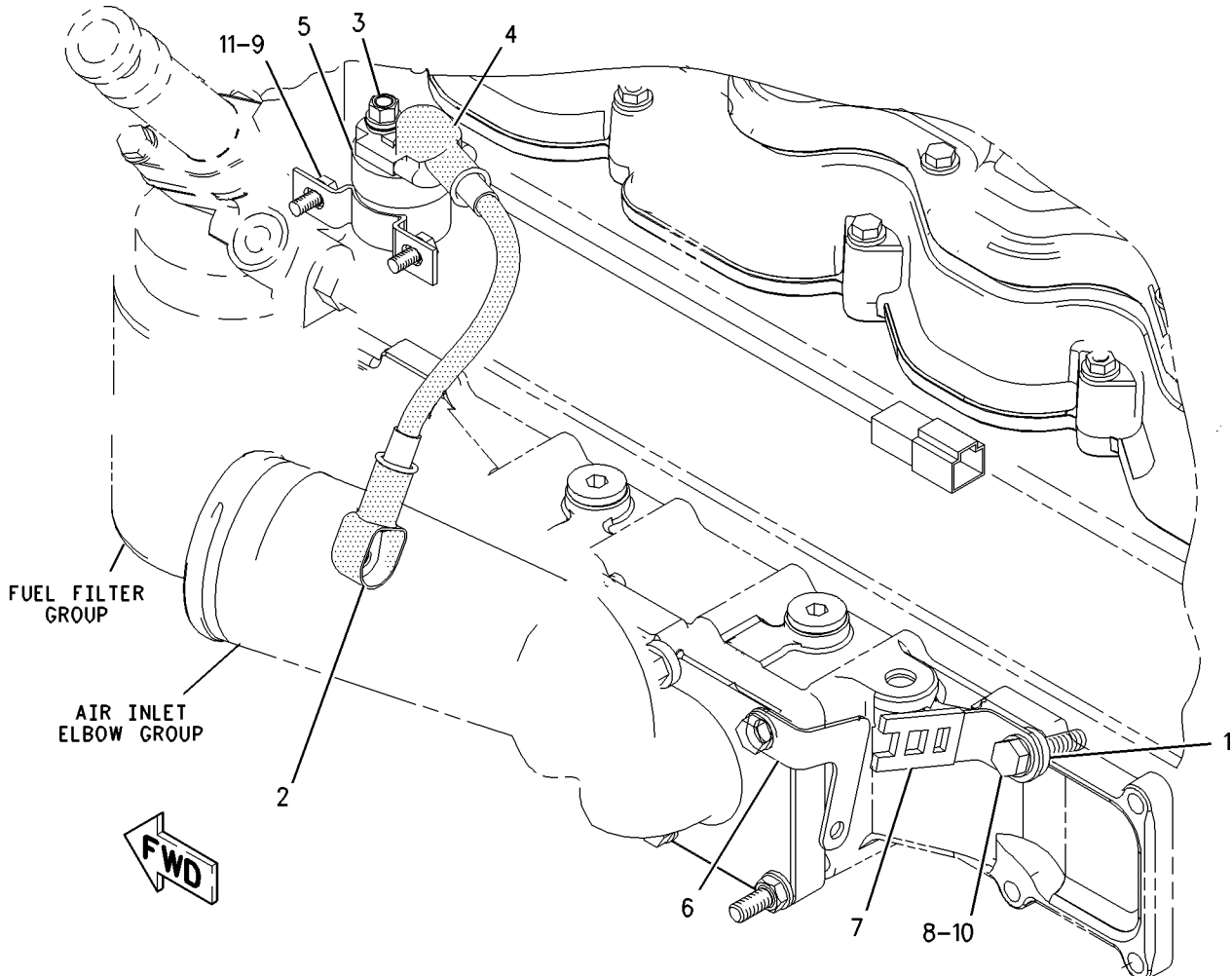
12 VOLT, PROVIDES RELAY SWITCH
FOR USE WITH AIR INLET HEATER, MID MOUNT FUEL FILTER BASE
ALSO AN ATTACHMENT

SMCS-1090, 1408

i01593492

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7S-6369	1	WASHER (.344X.75X.188 IN THK)						
	2	1	003-9835	2	PROTECTOR						
M	3	1	112-6646	2	LOCKNUT						
	4	1	147-0286	1	WIRE AS						
	5	1	175-2301	1	SWITCH AS-MAGNETIC (12 VOLT) (AIR INLET HEATER)						
			102-8802	1	KIT-RECEPTACLE (2 PIN) (INCLUDES RECEPTACLE AS & WEDGE)						
		1	186-3735	2	PIN-CONNECTOR						
B		1	9X-1813		SLEEVE						
BM		1	112-6646	2	LOCKNUT						
	6	1	195-1306	1	STRAP-GROUNDING						
	7	1	4P-8134	1	CLIP						
M	8	1	6V-5218	1	BOLT (M8X1.25X35MM)						
M	9	1	8T-4970	2	BOLT (M6X1X14MM)						
	10	1	9M-1974	1	WASHER-HARD (8.8X16X2MM THK)						
	11	1	9X-8256	2	WASHER (6.6X12X2MM THK)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

g00829373

ELECTRICAL AND STARTING SYSTEM

195 - 1333 WIRING GP - ELECTRONIC CONTROL

FOR USE WITH ADEM III CONTROL MODULE, 198-1724-PAGE 423

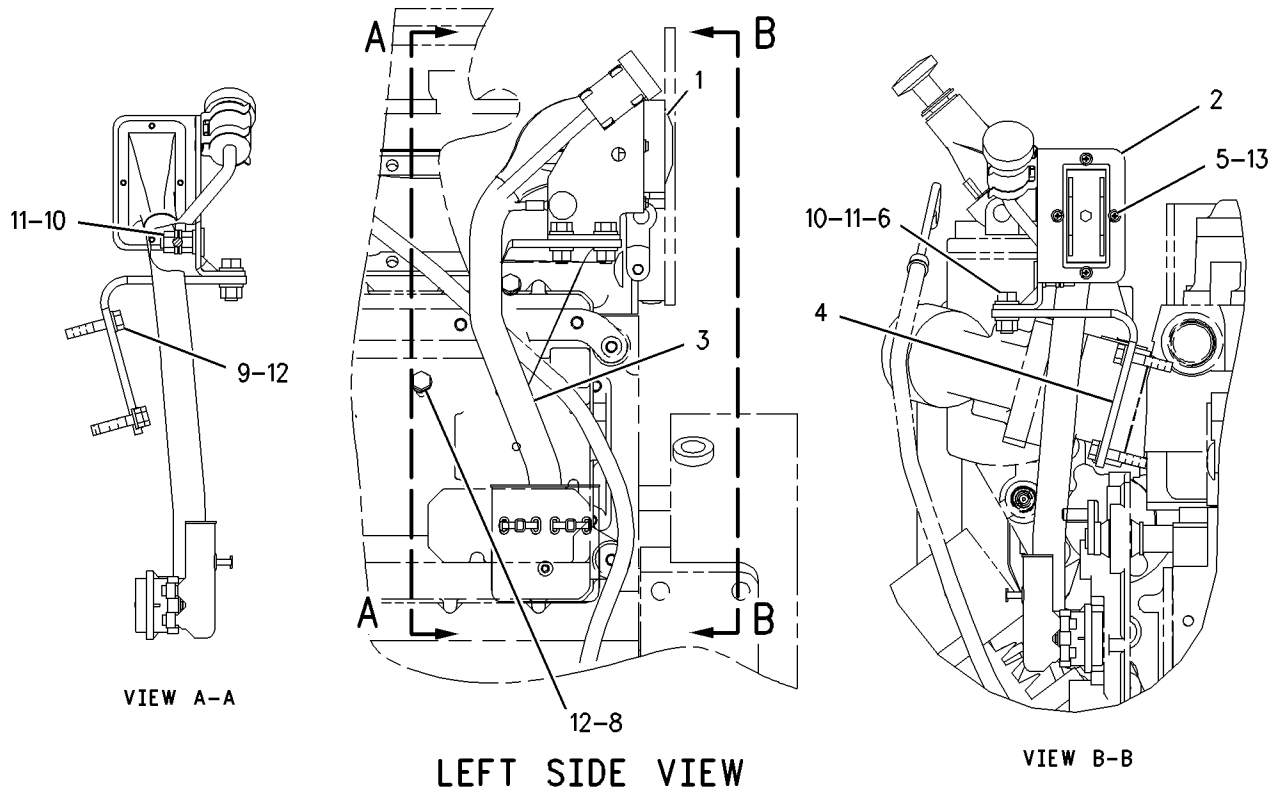
AN ATTACHMENT

SMCS-1408, 1900

i01579637

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-6443	1	CAP - CONNECTOR						
	2	1	131-5526	1	BRACKET AS						
		1	4M-0200	2	STUD-WELD						
	3	1	194-1090	1	HARNES AS						
		1	174-0503	1	KIT-CONNECTING PLUG (3 PIN) (INCLUDES PLUG AS & WEDGE)						
		1	160-7689	1	PLUG AS-CONNECTOR (70 PIN)						
		1	159-9322	1	SEAL-O-RING						
	4	1	195-1331	1	BRACKET						
	5	1	4B-5324	4	WASHER (3.9X9.6X1.2MM THK)						
	6	1	4L-6454	2	BOLT (3/8-16X1 IN)						
M	8	1	6V-2317	1	BOLT (M8X1.25X30MM)						
M	9	1	6V-5219	2	BOLT (M8X1.25X40MM)						
	10	1	6V-8801	4	NUT (3/8-16 THD)						
	11	1	8T-4896	7	WASHER-HARD (10.2X18.5X2.5MM THK)						
	12	1	9M-1974	3	WASHER-HARD (8.8X16X2MM THK)						
	13	1	9X-6258	4	SCREW-MACHINE (6-32X.50 IN)						

M-METRIC PART



GRAPHIC #1

g00810818

ELECTRICAL AND STARTING SYSTEM

144-3924 WIRING GP-ENGINE-REMOTE MOUNTED CONTROL AN ATTACHMENT

SMCS-1000, 1408

i00703045

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	137-1590	1	HARNESS AS-WIRING						437
	102-8810	1	KIT-CONNECTING PLUG						
	8N-1542	1	PIN-CONNECTOR						
	127-5485	1	PLUG AS-CONNECTING						
	127-5486	1	RECEPTACLE AS						
	102-8812	1	SEAL-INTERFACE						
	9W-0844	4	SOCKET-CONNECTION						
	8N-1543	1	SOCKET-CONNECTION						
	8T-8730	4	SOCKET-CONNECTOR						
	2L-8066	1	TERMINAL (10 GA)						
	3D-7814	1	TERMINAL AS						
	3E-3380	1	WEDGE-PLUG LOCK						

Y-SEPARATE ILLUSTRATION

MEMORANDA

ELECTRICAL AND STARTING SYSTEM

190-5038 WIRING GP - ENGINE HIGH SIDE ACTIVATION OF AIR INLET HEATER RELAY ALSO AN ATTACHMENT

SMCS-1000, 1408

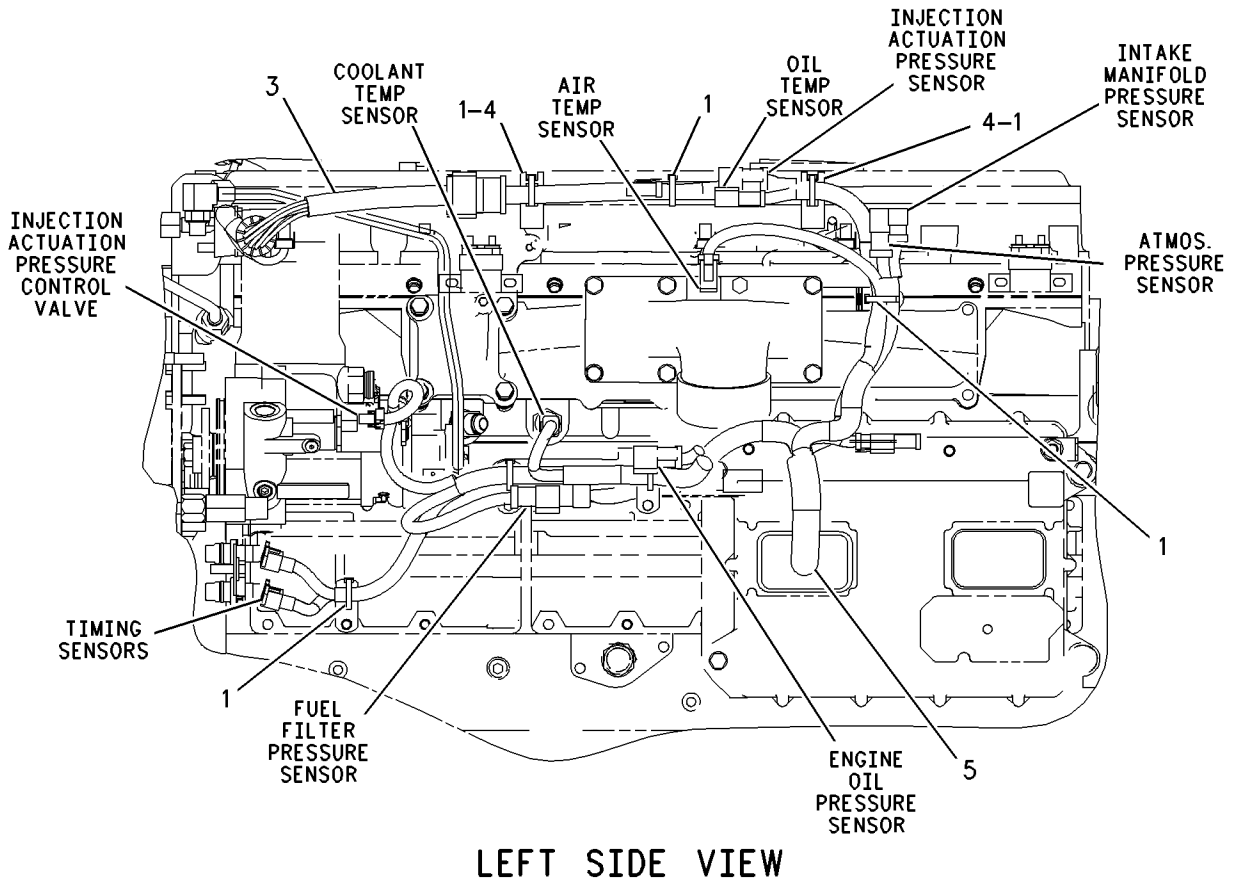
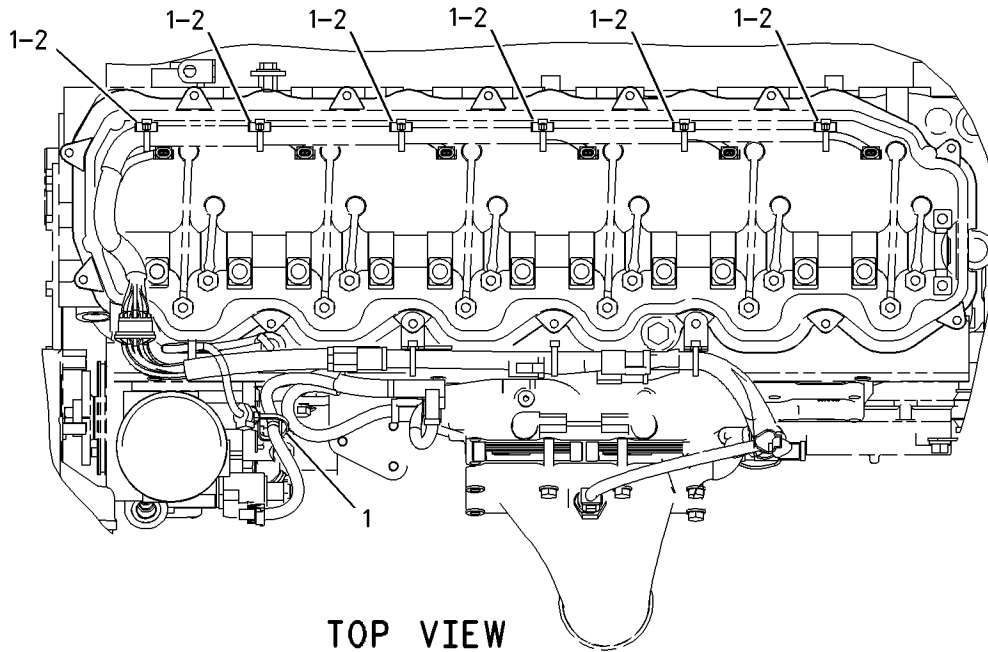
i01499316

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3S-2093	14	STRAP - CABLE						
	2	1	105-1797	6	MOUNT - WIRE TIE						
	3	1	153-8920	1	HARNES AS - WIRING						
		1	155-2255	1	KIT - CONNECTING PLUG (12 PIN) (INCLUDES PLUG AS AND WEDGE)						
	4	1	156-6175	2	CLIP						
	5	1	195-7336	1	HARNES AS						
		1	102-8802	2	KIT - RECEPTACLE (2 PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
		1	102-8803	4	KIT - RECEPTACLE (3 PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
		1	102-8801	1	KIT - RECEPTACLE (12 PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
		1	100-3320	1	PLUG AS - CONNECTOR						
		1	126-5011	1	SEAL - CONNECTOR						
		1	111-2416	1	PLUG AS - CONNECTOR						
		1	126-5011	1	SEAL - CONNECTOR						
		1	155-2260	1	KIT - CONNECTING PLUG (3 PIN) (INCLUDES PLUG AS AND WEDGE)						
		1	155-2270	4	KIT - CONNECTING PLUG (2 PIN) (INCLUDES PLUG AS AND WEDGE)						
		1	160-7690	1	PLUG AS - CONNECTOR						
		1	159-9322	1	SEAL - O - RING						

ELECTRICAL AND STARTING SYSTEM

190-5038 WIRING GP-ENGINE (contd.)

i01499316



GRAPHIC #1

g0077749

ELECTRICAL AND STARTING SYSTEM

195-0131 WIRING GP - ENGINE

FOR USE WITH 133-3329-PAGE 424, 24 VOLT WIRING SYSTEM
AN ATTACHMENT

SMCS-1000, 1408

i01514952

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	194-4613	1	HARNESS AS-WIRING						
	8T-9834	1	PLUG AS-CONNECTOR (40 PIN)						
	3E-4367	1	RING-RETAINING						
M	3E-8557	1	BOLT (M5X0.8X39.37MM)						
	9X-3132	2	SEAL-CONNECTOR						
	155-2255		KIT-CONNECTING PLUG (12 PIN) (INCLUDES PLUG AS AND WEDGE)						
	155-2260	1	KIT-CONNECTING PLUG (3 PIN) (INCLUDES PLUG AS AND WEDGE)						
	155-2270		KIT-CONNECTING PLUG (2 PIN) (INCLUDES PLUG AS AND WEDGE)						
	155-2274	1	KIT-CONNECTING PLUG (6 PIN)						
	8N-1542	1	PIN-CONNECTOR						
	127-5485	1	PLUG AS-CONNECTOR						
	127-5486	1	RECEPTACLE AS (1 PIN)						
	8N-1543	1	SOCKET-CONNECTION						
	9W-0844	2	SOCKET-CONNECTION						
	186-3736	4	SOCKET-CONNECTOR						
	2L-8066	1	TERMINAL (10 GA)						
	2L-8081	2	TERMINAL						
	2L-8071	1	TERMINAL-INSULATED (10 GA)						
	155-2263	1	WEDGE-PLUG LOCK						
D	5P-5624		WIRE (14 GA) (5M)						
D	5P-5622		WIRE (10 GA) (5M)						
D- ORDER BY THE METER M- METRIC PART									

OPERATOR STATION

133-4850 CONTROL GP-ENGINE MONITORING

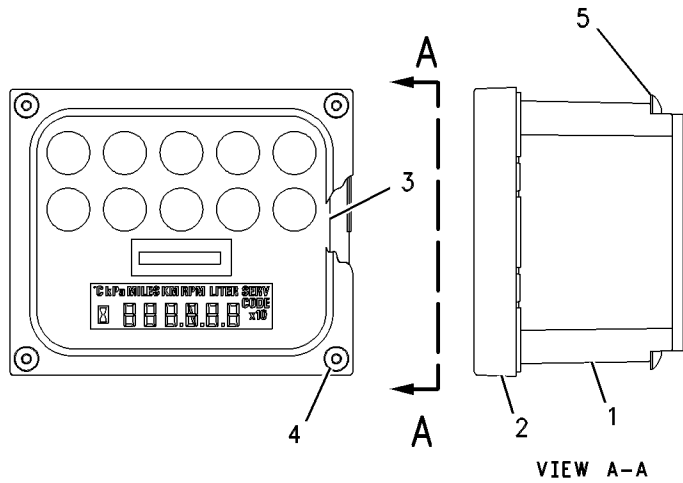
AN ATTACHMENT

SMCS-1901, 7490

i01451919

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	198-9749	1	CONTROL GP-MONITOR (MARINE POWER DISPLAY)						
	2	1	117-6601	1	BEZEL						
	3	1	133-4860	1	FILM-CONTROL PANEL						
M	4	1	7Y-7388	4	SCREW-BUTTON HEAD (M5X0.8X12MM)						
M	5	1	8T-3992	3	SCREW (M6X1X12MM)						

M-METRIC PART



GRAPHIC #1

g00327074

OPERATOR STATION

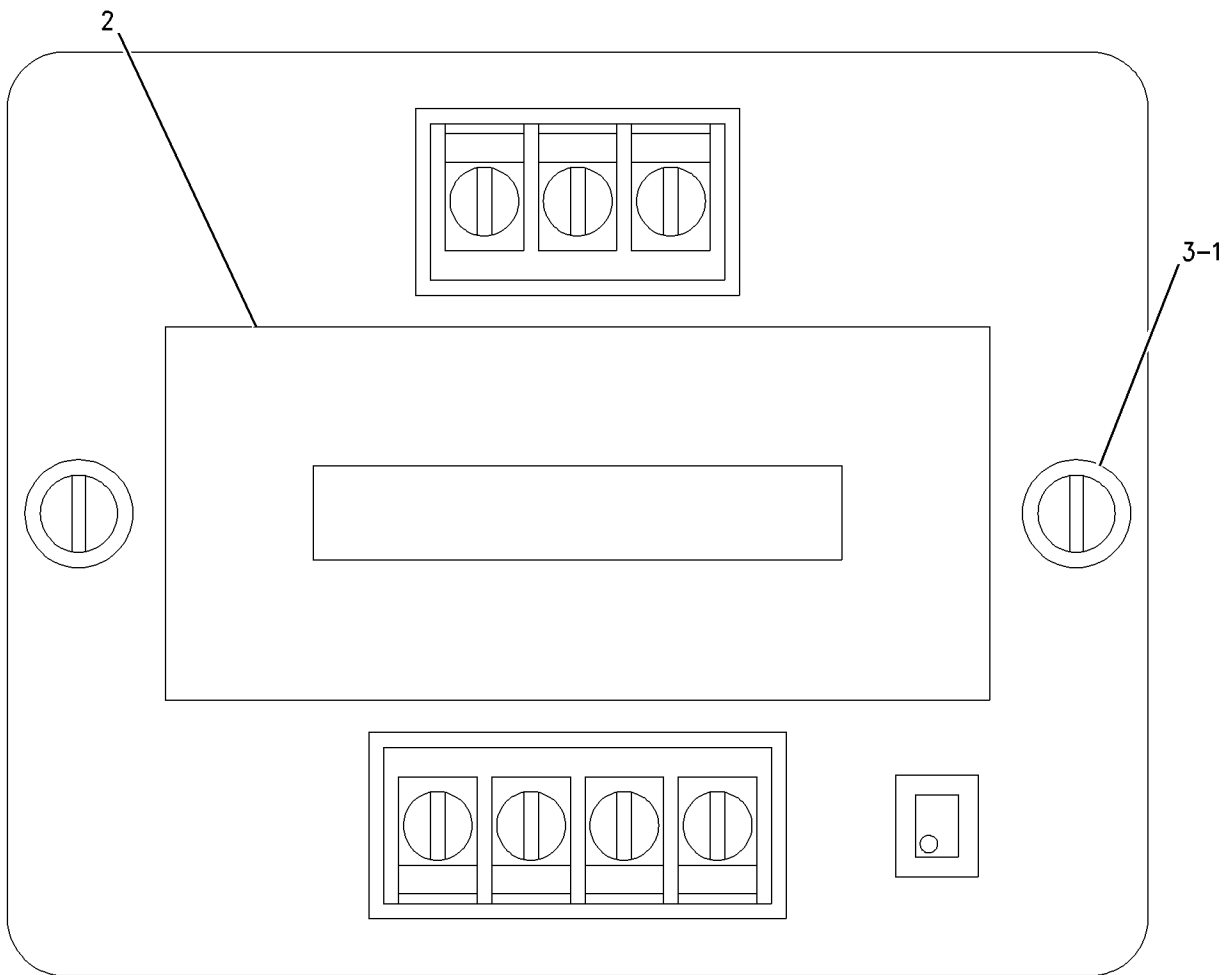
9X-9591 CONVERTER GP-ELECTRICAL

PWM
AN ATTACHMENT

SMCS-1421

i01491367

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4B-4863	2	WASHER (4.7X11X1.2MM THK)						
	2	1	9X-9857	1	FILM-IDENTIFICATION						
	3	1	3K-8106	2	SCREW-MACHINE (8-32 X 1 IN)						



GRAPHIC #1

g00774430

OPERATOR STATION

127-8853 CONVERTER GP - ELECTRICAL

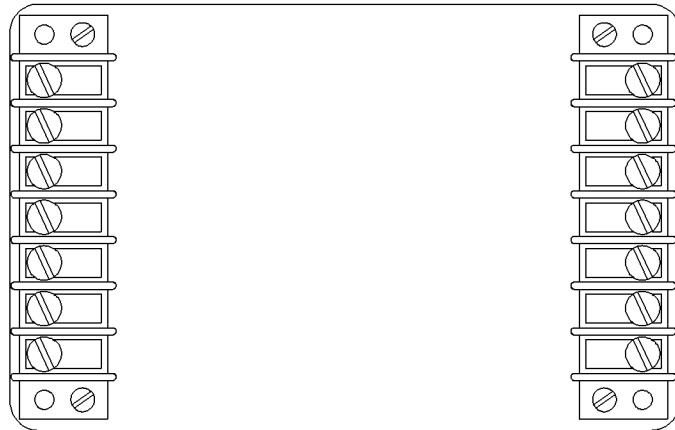
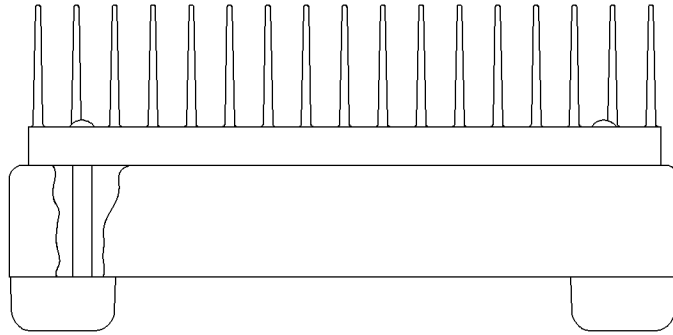
12 VDC TO 24 VDC CONVERTER

AN ATTACHMENT

SMCS-1421

i01302140

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
(NO SERVICED PARTS)											



GRAPHIC #1

g00691213

OPERATOR STATION

132-1422 GAUGE GP
24 VOLT. VOLTAGE INDICATOR
FOR USE WITH 24 VOLT INSTRUMENT PANEL
AN ATTACHMENT

SMCS-7450, 7451

i00638703

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	105-1457	1	GAUGE GP - VOLTAGE						531
	9Y-5721	1	WIRE AS						
Y - SEPARATE ILLUSTRATION									

OPERATOR STATION

132-1423 GAUGE GP
12 VOLT. VOLTAGE INDICATOR
FOR USE WITH 12 VOLT INSTRUMENT PANEL
AN ATTACHMENT

SMCS-7450, 7451

i00638713

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	1W-6379	1	INDICATOR AS-VOLT						
	3L-8187	2	LOCKWASHER (3.7MM ID)						
	9B-7233	2	LOCKWASHER (NO.8)						
	6V-8377	2	NUT (8-32 THD)						
	6V-8368	2	NUT (6-32 THD)						
	6V-3507	1	SEAL-RECTANGULAR						
	4B-5324	2	WASHER (1.19MM THK)						
	9Y-5721	1	WIRE AS						

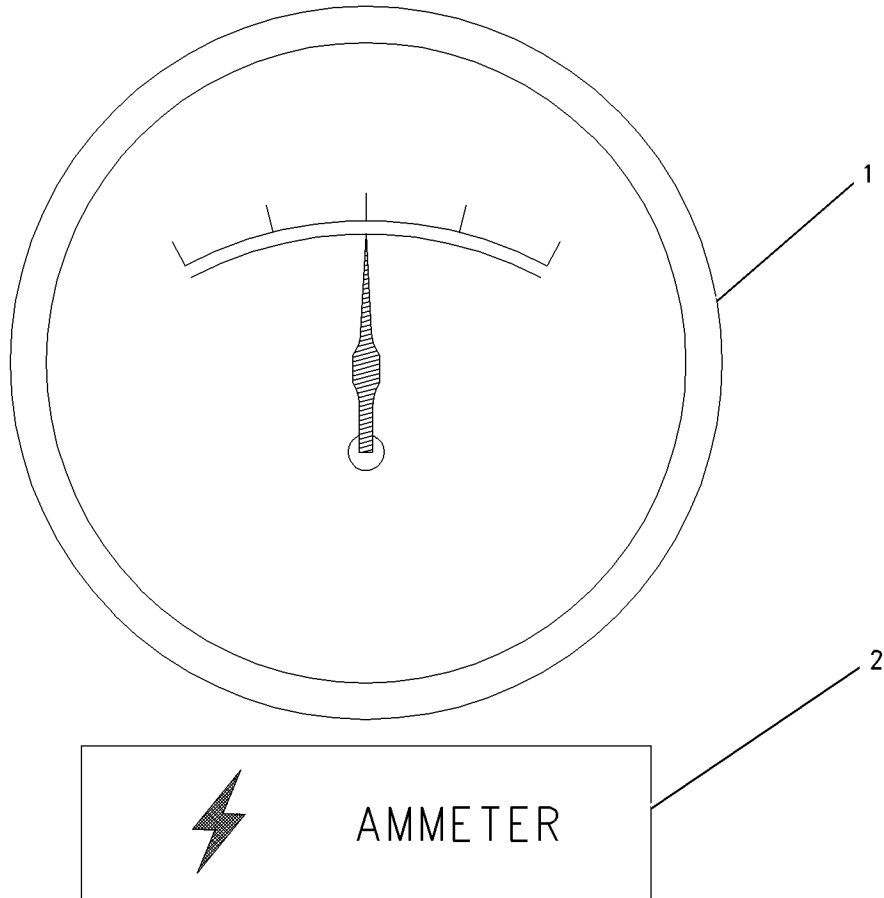
OPERATOR STATION

3N-9012 GAUGE GP-AMMETER FOR USE WITH PREMIUM INSTRUMENT PANEL AN ATTACHMENT

SMCS-7467

i01506268

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3N-5992	1	AMMETER						
	2	1	3N-5990	1	FILM-GAUGE IDENTIFICATION						



GRAPHIC #1

g00781783

OPERATOR STATION

105-1457 GAUGE GP-VOLTAGE

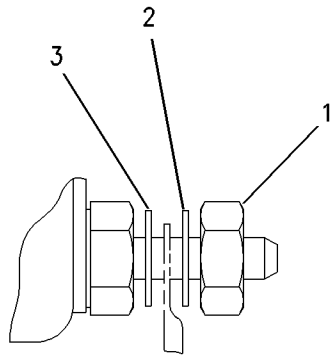
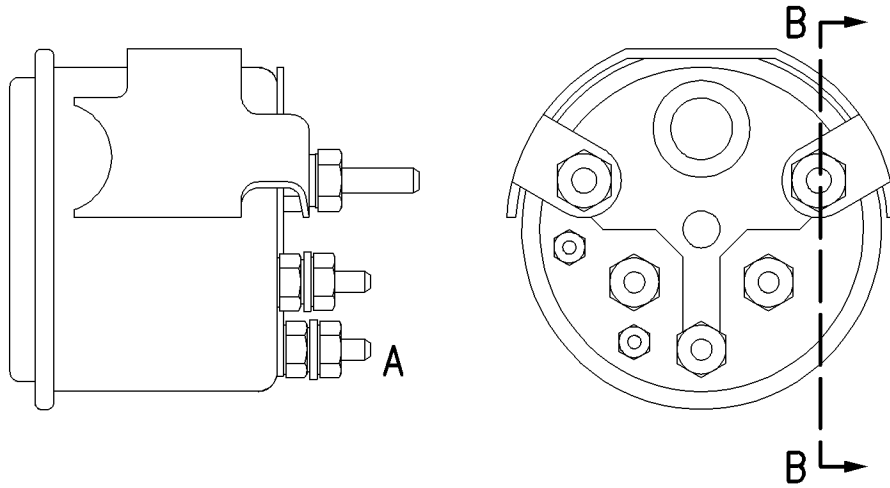
ALTERNATOR

PART OF 132-1422 GAUGE GP
AN ATTACHMENT

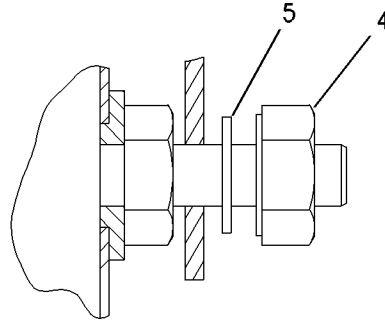
SMCS-7468

i01393797

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-8368	2	NUT (6-32 THD)						
	2	1	4B-5324	2	WASHER (3.9X9.6X1.2MM THK)						
	3	1	3L-8187	2	LOCKWASHER (#6)						
	4	1	4B-2043	2	NUT (8-32 THD)						
	5	1	9B-7233	2	LOCKWASHER (#8)						



VIEW OF AREA A



SECTION B-B

GRAPHIC #1

g00734608

OPERATOR STATION

132-8044 MODULE GP-QUAD GAUGE

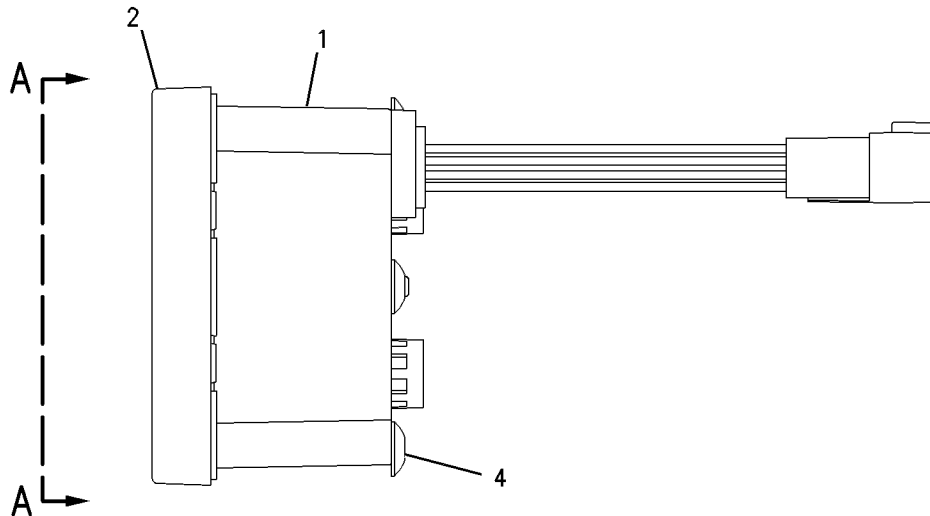
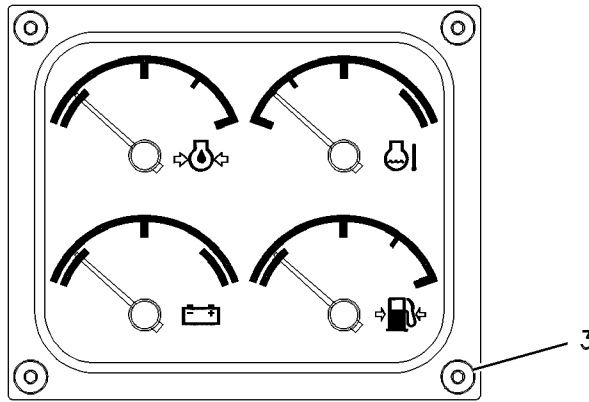
ELECTRONIC
AN ATTACHMENT

SMCS-7451, 7490

i01233531

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	166-6936	1	MODULE GP-QUAD GAUGE						533
	2	1	117-6601	1	BEZEL						
M	3	1	7Y-7388	4	SCREW-BUTTON HEAD (M5X0.8X12MM)						
M	4	1	8T-3992	4	SCREW (M6X1X12MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g00659713

OPERATOR STATION

166-6936 MODULE GP-QUAD GAUGE

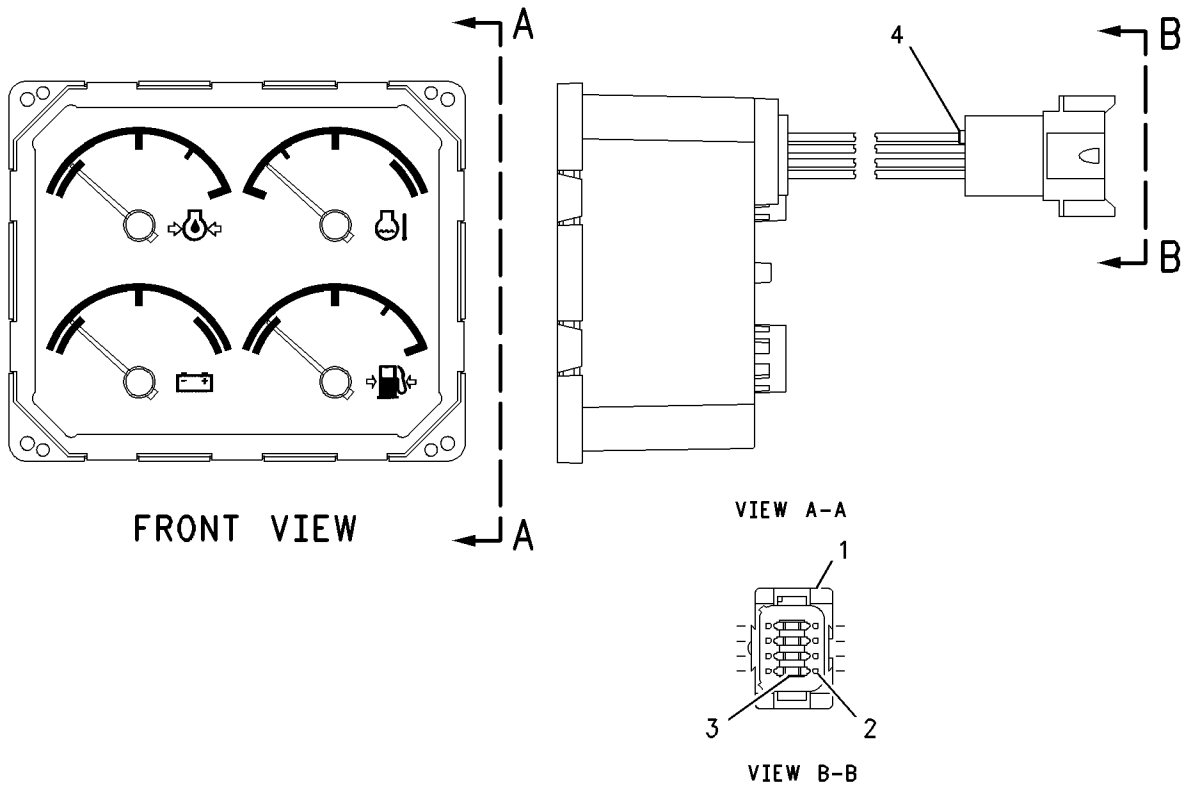
PART OF 132-8044 MODULE GP-QUAD GAUGE

AN ATTACHMENT

SMCS-7451, 7490

i01566105

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	102-8806	1	KIT-RECEPTACLE (8 PIN) (INCLUDES RECEPTACLE AS & WEDGE)						
	2	1	186-3735	7	PIN-CONNECTOR						
	3	1	3E-3389	1	WEDGE-RECEPTACLE LOCK						
	4	1	8T-8737	1	PLUG-SEAL						



GRAPHIC #1

g00814003

OPERATOR STATION

144-0890 MODULE GP - SPEEDOMETER & TACH

PROVIDES SPEED/TACH WITH POSITIVE MODE DISPLAY
AN ATTACHMENT

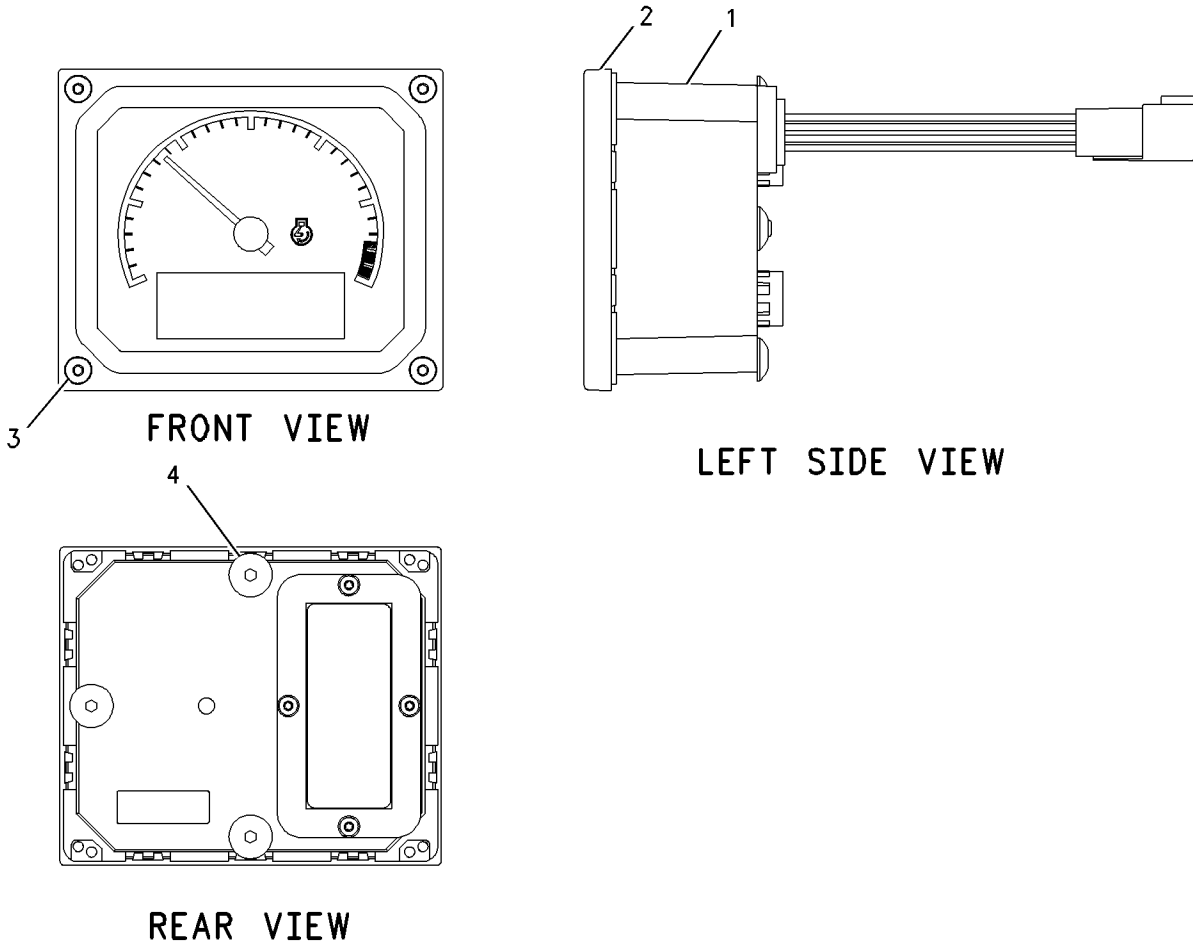
SMCS-7451, 7462, 7463, 7490

i01511601

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	153-8059	1	MODULE GP - SPEEDOMETER & TACH						535
	2	1	117-6601	1	BEZEL						
M	3	1	7Y-7388	4	SCREW - BUTTON HEAD (M5X0.8X12MM)						
M	4	1	8T-3992	3	SCREW (M6X1X12MM)						

M - METRIC PART

Y - SEPARATE ILLUSTRATION



GRAPHIC #1

g00784664

OPERATOR STATION

153-8059 MODULE GP - SPEEDOMETER & TACH

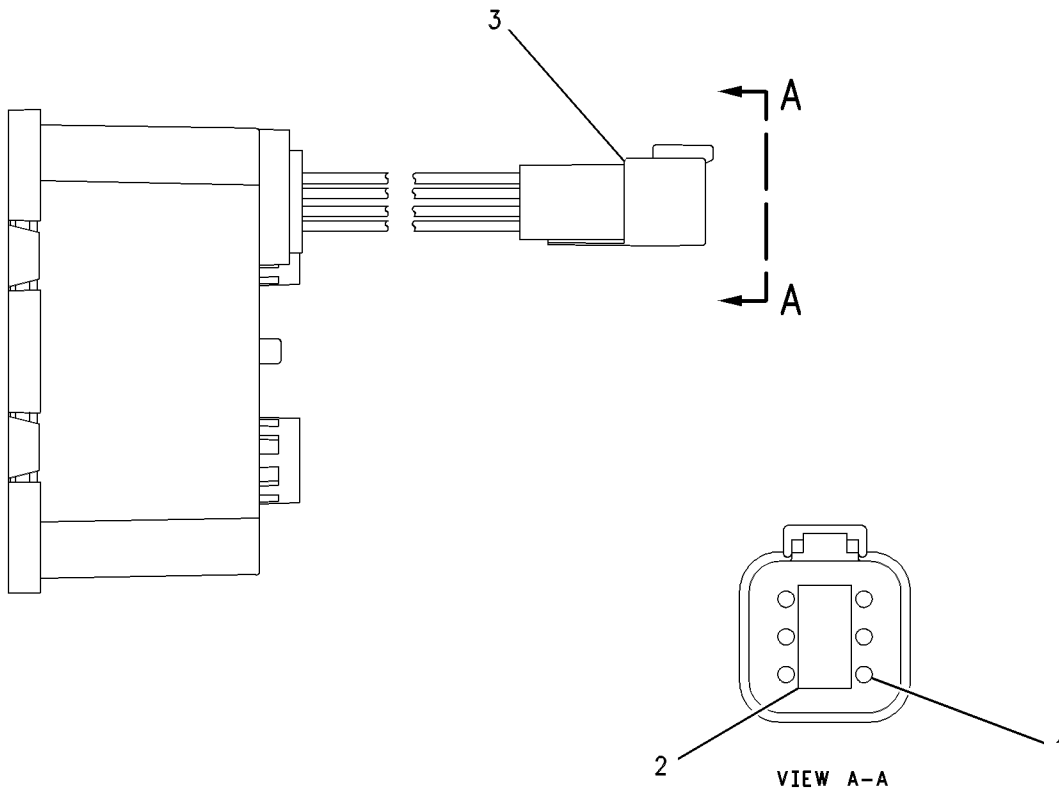
PART OF 144-0890 MODULE GP - SPEEDOMETER & TACH

AN ATTACHMENT

SMCS-7451, 7462, 7463, 7490

i01270536

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-8729	6	PIN-CONNECTOR						
	2	1	3E-3383	1	WEDGE-RECEPTACLE LOCK						
	3	1	102-8805	1	KIT-RECEPTACLE (6 PIN)						
(INCLUDES RECEPTACLE AS & WEDGE)											



GRAPHIC #1

g00395696

OPERATOR STATION

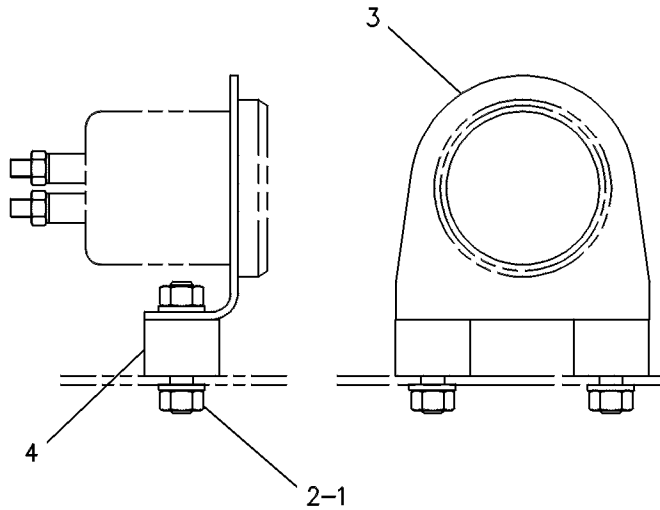
110-8310 MOUNTING GP - INSTRUMENT

RIGHT HAND
AN ATTACHMENT

SMCS-7451

i00639068

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-1974	4	WASHER-HARD (2MM THK)						
	2	1	5S-0003	4	NUT-FULL (5/16-18 THD)						
	3	1	6L-2845	1	BRACKET-MOUNTING						
	4	1	7C-0100	2	MOUNT-SHOCK						



GRAPHIC #1

g00242080

OPERATOR STATION

132-1378 TACHOMETER GP-ELECTRIC

SAE NO.1

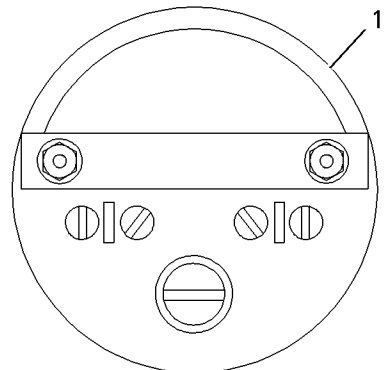
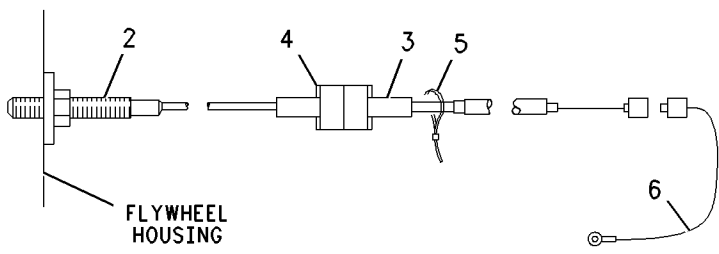
FOR USE WITH 156 TOOTH FLYWHEEL
AN ATTACHMENT

SMCS-7462

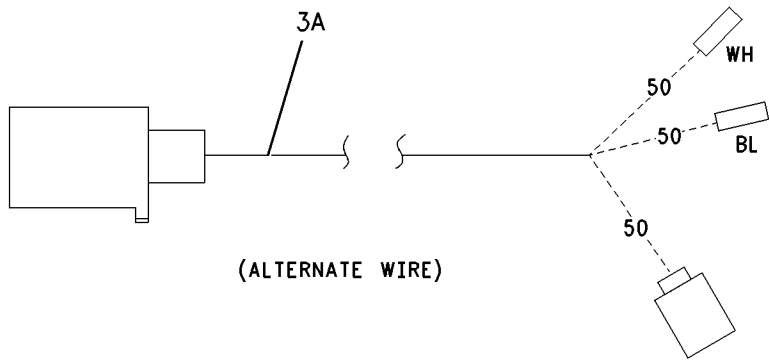
i01522739

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-1117	1	TACHOMETER						
					-OR-						
J	1A	1	197-7348	1	TACHOMETER GP						
Y	2	1	7W-3355	1	SENSOR GP-SPEED						460
	3	1	9Y-9849	1	WIRE AS-TACHOMETER						
					-OR-						
J	3A	1	205-1767	1	WIRE AS						
	4	1	9G-9151	1	CLIP						
	5	1	8L-8413	1	STRAP-CABLE						
	6	1	2W-0619	1	WIRE AS						
FJ			155-2274	1	KIT-CONNECTING PLUG (6 PIN)						
FJ			186-3736	4	SOCKET-CONNECTOR						

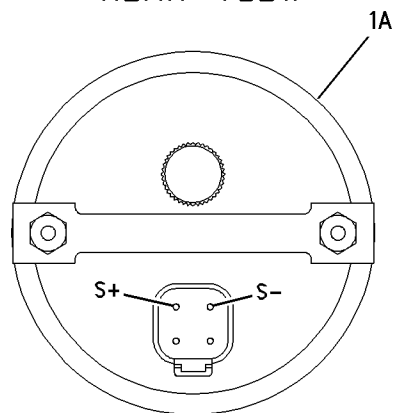
F - NOT SHOWN
 J - USE ALL PARTS MARKED J TO REPLACE 9X-1117 TACHOMETER
 Y - SEPARATE ILLUSTRATION



REAR VIEW



(ALTERNATE WIRE)



REAR VIEW

GRAPHIC #1

g00783071

OPERATOR STATION

132-1379 TACHOMETER GP-ELECTRIC

SAE NO.2

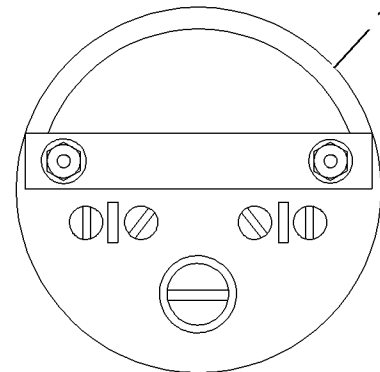
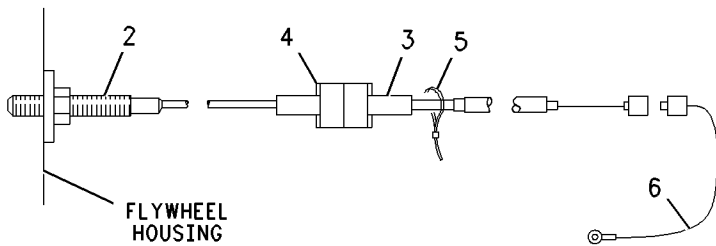
FOR USE WITH 134 TOOTH FLYWHEEL
AN ATTACHMENT

SMCS-7462

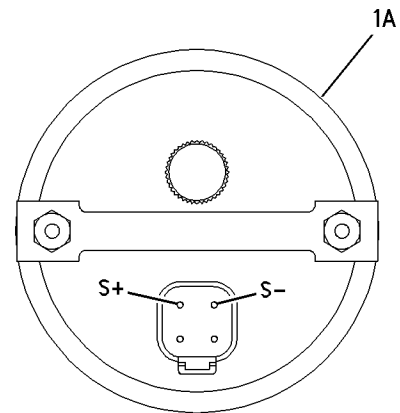
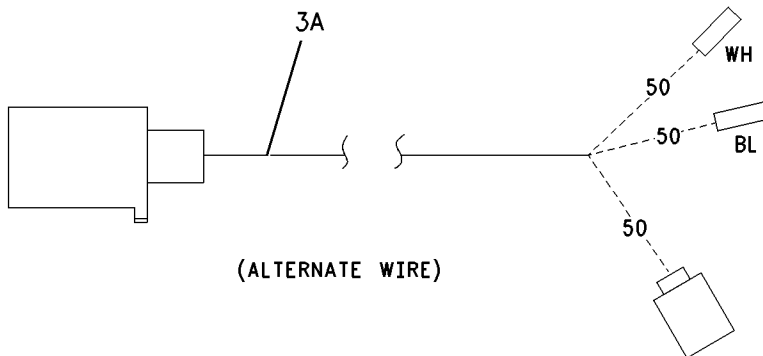
i01513139

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-1117	1	TACHOMETER						
					-OR-						
J	1A	1	197-7348	1	TACHOMETER GP						
Y	2	1	7W-3355	1	SENSOR GP-SPEED						460
	3	1	9Y-9849	1	WIRE AS-TACHOMETER						
					-OR-						
J	3A	1	205-1767	1	WIRE AS						
	4	1	9G-9151	1	CLIP						
	5	1	8L-8413	1	STRAP-CABLE						
	6	1	2W-0619	1	WIRE AS						
FJ			155-2274	1	KIT-CONNECTING PLUG (6 PIN)						
FJ			186-3736	4	SOCKET-CONNECTOR						

F - NOT SHOWN
 J - USE ALL PARTS MARKED J TO REPLACE 9X-1117 TACHOMETER
 Y - SEPARATE ILLUSTRATION



REAR VIEW



REAR VIEW

GRAPHIC #1

g00783071

OPERATOR STATION

132-1380 TACHOMETER GP-ELECTRIC

SAE NO.3

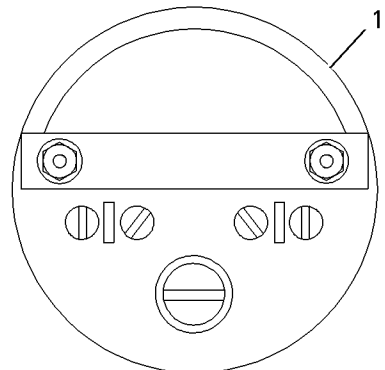
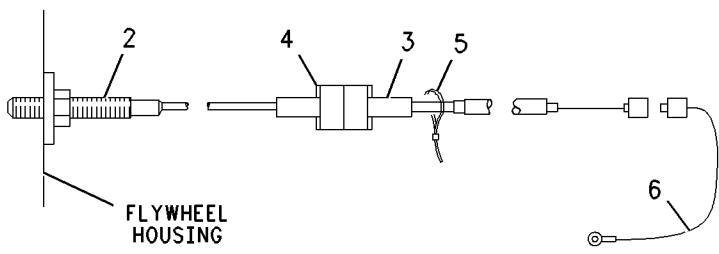
FOR USE WITH 126 TOOTH FLYWHEEL
AN ATTACHMENT

SMCS-7462

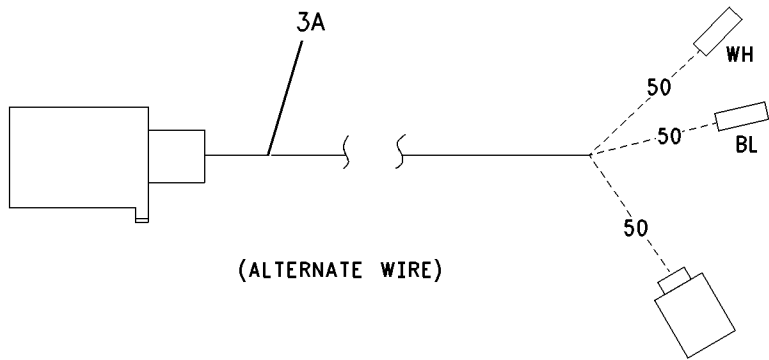
i01513147

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-1117	1	TACHOMETER						
					-OR-						
J	1A	1	197-7348	1	TACHOMETER GP						
Y	2	1	7W-3355	1	SENSOR GP-SPEED						460
	3	1	9Y-9849	1	WIRE AS-TACHOMETER						
					-OR-						
J	3A	1	205-1767	1	WIRE AS						
	4	1	9G-9151	1	CLIP						
	5	1	8L-8413	1	STRAP-CABLE						
	6	1	2W-0619	1	WIRE AS						
FJ			155-2274	1	KIT-CONNECTING PLUG (6 PIN)						
FJ			186-3736	4	SOCKET-CONNECTOR						

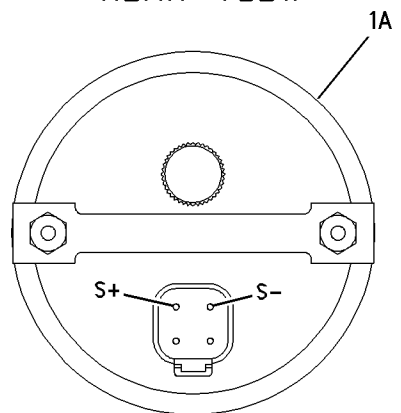
F - NOT SHOWN
 J - USE ALL PARTS MARKED J TO REPLACE 9X-1117 TACHOMETER
 Y - SEPARATE ILLUSTRATION



REAR VIEW



(ALTERNATE WIRE)



REAR VIEW

GRAPHIC #1

g00783071

ENCLOSURES, GUARDS AND BASES

7E-1487 BASE GP-ENGINE

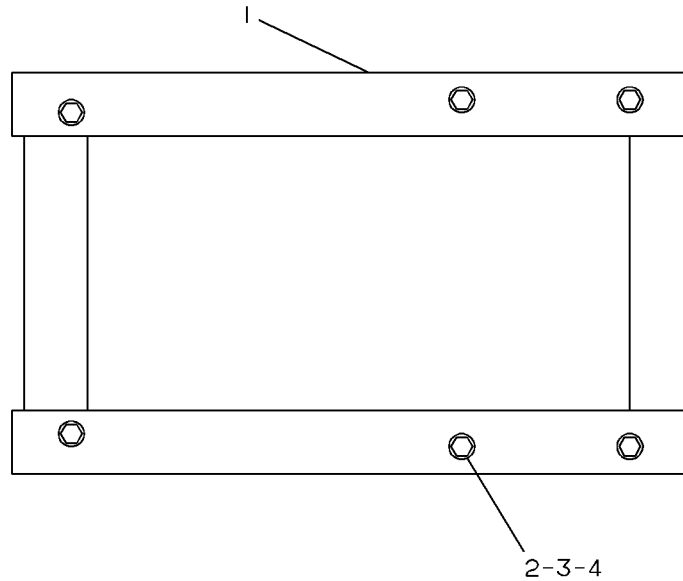
FOR USE WITH FRONT & REAR SUPPORT
AN ATTACHMENT

SMCS-7060

i00638852

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-1488	1	BASE AS						
BM	2	1	6V-8197	4	BOLT (M12X1.75X40MM)						
B	3	1	5P-8245	8	WASHER (3MM THK)						
BM	4	1	6V-8149	4	NUT (M12X1.75 THD)						

B- USE AS REQUIRED
M- METRIC PART



GRAPHIC #1

g00203030

SERVICE EQUIPMENT AND SUPPLIES

6L -4502 CHART -PLATE & FILM

SMCS -7557

i01432390

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	118-6305		FILM INSTALL ON TOP FLAT SURFACE OF VALVE COVER ADJACENT TO THE RIGHT SIDE OF WARRANTY FILM, READABLE FROM LH SIDE OF ENGINE.	
	124-5354		FILM (TRADEMARK) INSTALL ON TOP FLAT SURFACE OF VALVE COVER TOWARD REAR OF ENGINE, READABLE FROM LH SIDE OF ENGINE.	
	136-9066		FILM-ENGINE OIL INSTALL ON LEFT HAND SIDE OF ENGINE ON OIL FILL TUBE BENEATH FILLER CAP.	
	4P-6379		FILM-IDENTIFICATION (FUEL FILTER) INSTALL ON SPIN-ON FUEL FILTER	
	4P-8681		FILM-IDENTIFICATION (ENGINE OIL FILTER) INSTALL ON SPIN-ON OIL FILTER.	
	156-8041		FILM-INFORMATION INSTALL ON OIL PUMP RESERVOIR READABLE FROM LEFT SIDE OF ENGINE.	
	9M-0016		FILM-PATENT (ENGINE) INSTALL ON FRONT TIMING COVER TOWARDS LH SIDE OF ENGINE.	
	115-5852		PLATE & FILM GP INSTALL ON TOP OF FRONT VALVE COVER READABLE FROM LEFT HAND SIDE OF ENGINE. INSTALL LAMINATE OVER SILVER FILM.	
	4W-1413		PLATE - SERIAL NUMBER REFLATTEN AFTER STAMPING. INSTALL WITH LOCTITE COMPANY DEPEND ADHESIVE ON LOWER RH SIDE OF CYL BLOCK.	
	8L-8413		STRAP -CABLE USED TO INSTALL PRE-START TAG.	
	3N-3469		TAG - INSTRUCTION (ENGINE PRESTART) INSTALL ON RH OR LH SIDE OF ENGINE IN A VISIBLE LOCATION. DO NOT INSTALL ON FRONT OR REAR OF ENGINE OR COMPONENT.	

MEMORANDA

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			394		39		34
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0L-0639	27		402		41		524
	28		404		132	2L-8071	524
	32		406		135	2L-8075	374
	34		410		139		378
0L-1143	177	1H-3338	30		142		392
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0S-1585	287		62		316	2L-8081	466
0S-1587	28		448		317		467
	30	1K-2673	30		318		524
	34	1K-2811	30		319	2L-8256	27
0S-1588	245	1K-3113	360		320		34
0S-1590	310	1K-3621	30		321	2L-8257	34
0S-1591	28	1K-6870	22		438	2L-8259	27
	30	1L-1486	22		439		30
	32		149	1W-0613	326		34
	34		433	1W-1064	123	2L-8260	27
	176		434		124		34
	284		435	1W-2431	▶313	2L-8262	27
	289	1L-4863	28		322		30
	331		32		323		34
	332	1L-5516	28		324	2L-8509	89
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	310		363		482		302
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