

Parts Manual



See "General Information"
for New Parts Manual
Features.

C9 Industrial

MBD1-Up (Engine)

This Parts Manual is also Available in .PDF Format on Compact Disc
(CD-ROM) - Caterpillar Form No. SERP4145



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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* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

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



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

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 beginning each 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.

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.*).

9. NON-SERVICED PARTS

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.

GENERAL INFORMATION

10. PARTS LIST REFERENCE NUMBERS

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 – Refer To Hydraulic Information System
M – Metric Part
R – Remfg Part May Be Available
Y – Separate Illustration
Z – Not Serviced Separately



New Feature

14. DESCRIPTION OF TYPE CHANGES

Type - A type is defined as any configuration change that requires an additional Information Element for an Arrangement, Group, or Assembly. If serial number breaks for types are not available, a type # (Type 1, Type 2, etc.) will be displayed in the caption. These "type" changes are identified with a "C" note (change from previous type) in the Parts List. Only the "types" that apply to this Parts Manual will be included. Additional types may exist causing "C" notes to appear on an Information Element when no other types are shown.

15. <END>

This symbol indicates the end of an information element.

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'inobservation 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).

GÉNÉRALITÉS

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 "Hydraulic Information System"
- 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

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 al principio de cada 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").

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

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

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 – Consulte el sistema de información hidráulica
- M – Pieza métrica
- R – Puede estar disponible como pieza remanufacturada
- Y – Ilustración separada
- Z – No se suministra por separado



Nueva Característica

14. DESCRIPCIÓN DE LOS CAMBIOS DE TIPO

Tipo – Un tipo se define como cualquier cambio de configuración que requiere un Elemento de información adicional de una Configuración, Grupo o Conjunto. Si el número de serie se clasifica por tipos que no están disponibles, se mostrará un número de tipo (Tipo 1, Tipo 2, etc.) en el comentario de la fotografía. Estos cambios de "tipo" se identifican con una nota "C" (cambio con respecto al tipo anterior) en la Lista de Piezas. Se incluirían sólo los "tipos" que aplican a este Manual de Piezas. Es posible que haya tipos adicionales que causen la aparición de notas "C" en el Elemento de Información cuando no se muestran otros tipos."

15. <END>

Este símbolo indica el final de un elemento de información.

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 no início de cada 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.

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*) .

INFORMAÇÃO GERAL

9. NÃO DISPONÍVEL SEPARADAMENTE

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 *itálico*, a fim de indicar que não estão disponíveis.

10. NÚMEROS DE REFERÊNCIA À LISTA DE PEÇAS

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. ABREVIAÇÕES 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 – Consultar o Sistema de Informações Hidráulicas
- M – Peça métrica
- R – Peça remanufaturada pode estar disponível; consulte o seu revendedor Cat
- Y – Ilustração separada
- Z – Não disponível separadamente



14. <END>

Este símbolo indica o final de um elemento de informação.

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

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 am Anfang jeder 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.

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

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

Die Zahlen, die in der Spalte "Ref No" aufgeführt sind, stimmen mit den Zahlen in den beigegeführten 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 Hydraulikinformationssystem
M – metrisches Teil
R – werküberholtes Teil unter Umständen lieferbar
Y – separate Abbildung
Z – nicht einzeln lieferbar

 *Neu im Parts Manual*

14. BESCHREIBUNG DER TYPENÄNDERUNGEN

Typ-A bezieht sich auf alle Konfigurationsänderungen, die ein zusätzliches Informationselement für Ausführung, Gruppe oder Einheit benötigen. Wenn kein Seriennummernumbruch für Typen erhältlich ist, wird in der Überschrift eine Typennummer (Typ 1, Typ 2, etc.) angegeben. Diese "Typenänderungen" sind in der Teileliste mit der Anmerkung "C" (Änderung des vorherigen Typs) versehen. Es werden nur die für dieses Ersatzteilhandbuch relevanten "Typen" angegeben. Es können zusätzliche Typen vorhanden sein, was zu "C" Anmerkungen zu einem Informationselement führen kann, wenn keine anderen Typen angegeben werden.

15. <END>

Dieses Symbol zeigt das Ende eines Informationselements an.

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 Ersatzteibuch 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				
COLLECTOR-DUST (AIR PRECLEANER)	2S-6708	1	PRECLEANER GP	280
ELEMENT AS-PRIMARY (AIR CLEANER)	132-7167	1	AIR CLEANER GP	255
FILTER ELEMENT AS-AIR (SECONDARY) (AIR CLEANER)	6I-2510	1	AIR CLEANER GP	255
BASIC ENGINE				
BELT (AUXILIARY DRIVE)	211-3576	1	PULLEY GP	145
BELT GP-SERPENTINE (AUXILIARY DRIVE)	208-2833	1	PULLEY GP-AUXILIARY DRIVE	147
BREATHER AS (CRANKCASE)	240-0041	1	COVER GP-CYLINDER BLOCK	26
CAP AS-FILLER (ENGINE OIL)	241-5645	1	COVER GP-FRONT HOUSING	30
			COVER GP-FRONT HOUSING	33
	227-4531	1	COVER GP-VALVE MECHANISM	37
			COVER GP-VALVE MECHANISM	38
PLUG-DRAIN (ENGINE)	9S-8008	1	PLUG GP-ENGINE	140
			PLUG GP-ENGINE	143
PLUG (DRAIN) (REAR GEAR HOUSING)	5F-0304	1	GEAR GP-REAR	108
PLUG-MAGNETIC (ENGINE OIL PAN DRAIN)	118-3619	2	DRAIN GP-ENGINE OIL	53
			DRAIN GP-ENGINE OIL	54
			DRAIN GP-ENGINE OIL	55
SEAL AS (VALVE MECHANISM BASE)	268-3490	1	COVER GP-VALVE MECHANISM	38
SEAL (23-DM)(VALVE MECHANISM BASE)	217-5701		COVER GP-VALVE MECHANISM	37
SEAL (23-DM)(VALVE MECHANISM COVER)	217-5701		COVER GP-VALVE MECHANISM	37
			COVER GP-VALVE MECHANISM	38
V-BELT (WATER PUMP)	9L-4896	1	DRIVE GP-WATER PUMP	70
COOLING SYSTEM				
CAP-PRESSURE (7-PSI) (RADIATOR)	6L-8617	1	RADIATOR GP	252
GASKET (WATER REGULATOR HOUSING)	191-4457	1	LINES GP-WATER	237
			LINES GP-WATER	239
GASKET (WATER TEMPERATURE REGULATOR)	219-2340	1	LINES GP-WATER	237
			LINES GP-WATER	239
PLUG-DRAIN (TRANSMISSION OIL COOLER)	8M-9307	1	COOLER GP-TRANSMISSION OIL	216
PLUG-DRAIN (WATER PUMP)	9S-8008	1	PUMP GP-WATER	243
PLUG-DRAIN (WATER REGULATOR HOUSING)	9S-8008	1	LINES GP-WATER	237
			LINES GP-WATER	239
REGULATOR-WATER TEMPERATURE (97-DEG C) (COOLANT)	284-5421	1	LINES GP-WATER	237
			LINES GP-WATER	239
REGULATOR-WATER TEMPERATURE (98-DEG C) (COOLANT)	247-7133	1	LINES GP-WATER	237
			LINES GP-WATER	239
SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)	3S-9643	1	LINES GP-WATER	237
			LINES GP-WATER	239

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
ELECTRICAL AND STARTING SYSTEM				
CIRCUIT BREAKER GP (15-AMPERE)	6T-3643	2	CONTROL GP-AUTO START/STOP	349
ELEMENT AS-JACKET WATER HEATER (240-VOLT, 1500-WATT)	6T-3764	1	HEATER GP-JACKET WATER	359
KEY (IGNITION)	5P-8500	1	CONTROL GP-AUTO START/STOP	349
LAMP AS-INDICATOR	2N-2371	1	CONTROL GP-AUTO START/STOP	349
LAMP (24-VOLT)	7N-5876	2	CONTROL GP-AUTO START/STOP	349
FUEL SYSTEM				
FILTER AS-FUEL	1R-0751	1	FILTER GP-FUEL	291
	1R-0771	1	FILTER GP-WATER SEP & FUEL	294
FILTER AS-FUEL (ADVANCED EFFICIENCY) (SECONDARY)	1R-0762	1	LINES GP-FUEL FILTER	304
		1	LINES GP-FUEL FILTER	312
FILTER AS-WATER SEP & FUEL (PRIMARY)	1R-0770	1	FILTER GP-WATER SEP & FUEL	292
GASKET (FUEL PRIMING PUMP)	1P-0436	1	COVER GP-FUEL FILTER BASE	290
		1	LINES GP-FUEL FILTER	312
		1	PUMP GP-FUEL PRIMING	322
		1	LINES GP-FUEL FILTER	304
SEAL-RING (FUEL, WATER SEPARATOR)	220-8678	1	FILTER GP-WATER SEP & FUEL	292
SEAL-RING (WATER SEPARATOR, FUEL)	220-8678	1	FILTER GP-WATER SEP & FUEL	294
LUBRICATION SYSTEM				
CAP AS-FILLER (ENGINE OIL)	5L-2952	1	FILLER GP-ENGINE OIL	177
	6N-2985	1	FILLER GP-ENGINE OIL	178
	241-5645	1	FILLER GP-ENGINE OIL	179
			FILLER GP-ENGINE OIL	180
			FILLER GP-ENGINE OIL	181
			FILLER GP-ENGINE OIL	182
CAP-OIL FILLER (TURBOCHARGER)	9L-8439	1	LINES GP-TURBOCHARGER OIL	203
			LINES GP-TURBOCHARGER OIL	204
FILTER AS-ENGINE OIL	1R-1808	1	FILTER GP-ENGINE OIL	183
			FILTER GP-ENGINE OIL	184
			FILTER GP-ENGINE OIL	185
HOSE-FUMES DISPOSAL	193-5510	1	FUMES DISPOSAL GP	186

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT DE CARBURANT				
FILTRE - SÉPARATEUR D'EAU ET DE CARBURANT (ENS) (PRINCIPAL)	1R-0770	1	FILTRE DE SÉPARATEUR D'EAU ET DE CARBURANT (ASS)	292
FILTRE A CARBURANT (ENS)	1R-0771	1	FILTRE DE SÉPARATEUR D'EAU ET DE CARBURANT (ASS)	294
	1R-0751	1	FILTRE A CARBURANT (ASS)	291
FILTRE A CARBURANT (ENS)	1R-0762	1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	304
(EFFICACITÉ AVANCÉE) (AUXILIAIRE)		1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	312
JOINT PLAT (POMPE D'AMORÇAGE DE CARBURANT)	1P-0436	1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	304
		1	CANALISATIONS DU FILTRE A CARBURANT (ASS)	312
		1	POMPE D'AMORÇAGE DE CARBURANT (ASS)	322
		1	COUVERCLE DU SUPPORT DE FILTRE À CARBURANT (ASS)	290
SEGMENT D'ÉTANCHÉITÉ (SÉPARATEUR D'EAU)	220-8678	1	FILTRE DE SÉPARATEUR D'EAU ET DE CARBURANT (ASS)	294
SEGMENT D'ÉTANCHÉITÉ (SÉPARATEUR D'EAU, CARBURANT)	220-8678	1	FILTRE DE SÉPARATEUR D'EAU ET DE CARBURANT (ASS)	292
CIRCUIT DE GRAISSAGE				
BOUCHON DE GOULOTTE DE REMPLISSAGE D'HUILE (TURBOCOMPRESSEUR)	9L-8439	1	CANALISATIONS D'HUILE DE TURBOCOMPRESSEUR (ASS)	203
		1	CANALISATIONS D'HUILE DE TURBOCOMPRESSEUR (ASS)	204
BOUCHON DE GOULOTTE DE REMPLISSAGE (ENS) (HUILE MOTEUR)	5L-2952	1	BOUCHON DE REMPLISSAGE D'HUILE MOTEUR (ASS)	177
	6N-2985	1	BOUCHON DE REMPLISSAGE D'HUILE MOTEUR (ASS)	178
	241-5645	1	BOUCHON DE REMPLISSAGE D'HUILE MOTEUR (ASS)	179
		1	BOUCHON DE REMPLISSAGE D'HUILE MOTEUR (ASS)	180
		1	BOUCHON DE REMPLISSAGE D'HUILE MOTEUR (ASS)	181
		1	BOUCHON DE REMPLISSAGE D'HUILE MOTEUR (ASS)	182
FILTRE A HUILE MOTEUR (ENS)	1R-1808	1	FILTRE À HUILE MOTEUR (ASS)	183
		1	FILTRE À HUILE MOTEUR (ASS)	184
		1	FILTRE À HUILE MOTEUR (ASS)	185
FLEXIBLE D'ÉVACUATION DES VAPEURS	193-5510	1	DISPOSITIF D'ÉVACUATION DES VAPEURS DE CARTER	186

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT DE REFROIDISSEMENT				
BOUCHON DE VIDANGE (BOÎTIER DE RÉGULATEUR D'EAU)	9S-8008	1	CANALISATIONS D'EAU (ASS)	237
			1 CANALISATIONS D'EAU (ASS)	239
BOUCHON DE VIDANGE (POMPE À EAU)	9S-8008	1	POMPE A EAU (ASS)	243
BOUCHON DE VIDANGE (REFROIDISSEUR D'HUILE DE BOÎTE)	8M-9307	1	REFROIDISSEUR D'HUILE DE BOÎTE (ASS)	216
COUVERCLE DE PRESSION (7-PSI) (RADIATEUR)	6L-8617	1	RADIATEUR (ASS)	252
JOINT PLAT (BOÎTIER DE RÉGULATEUR D'EAU)	191-4457	1	CANALISATIONS D'EAU (ASS)	237
			1 CANALISATIONS D'EAU (ASS)	239
JOINT PLAT (THERMOSTAT)	219-2340	1	CANALISATIONS D'EAU (ASS)	237
			1 CANALISATIONS D'EAU (ASS)	239
THERMOSTAT-TEMPÉRATURE D'EAU (97-DEG C) (LIQUIDE DE REFROIDISSEMENT)	284-5421	1	CANALISATIONS D'EAU (ASS)	237
			1 CANALISATIONS D'EAU (ASS)	239
THERMOSTAT-TEMPÉRATURE D'EAU (98 DEG C) (LIQUIDE DE REFROIDISSEMENT)	247-7133	1	CANALISATIONS D'EAU (ASS)	237
			1 CANALISATIONS D'EAU (ASS)	239
TYPE LÈVRE À JOINT (RÉGULATEUR DE TEMPÉRATURE D'EAU)	3S-9643	1	CANALISATIONS D'EAU (ASS)	237
			1 CANALISATIONS D'EAU (ASS)	239
CIRCUIT ELECTRIQUE ET DE DEMARRAGE				
AMPOULE (24 VOLTS)	7N-5876	2	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	349
CLÉ (ALLUMAGE)	5P-8500	1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	349
DISJONCTEUR (ASS) (15A)	6T-3643	2	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	349
ÉLÉMENT DU RÉCHAUFFEUR D'EAU DES CHEMISES (ENS) (240V, 1500W)	6T-3764	1	EAU DES CHEMISES - RECHAUFFEUR (ASS)	359
LAMPE DE TÉMOIN (ENS)	2N-2371	1	COMMANDE DE DÉMARRAGE/ARRÊT AUTOMATIQUE	349

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
MOTEUR				
BOUCHON AIMANTÉ (VIDANGE DE CARTER D'HUILE MOTEUR)	118-3619	2	VIDANGE-HUILE DE MOTEUR (ASS)	53
		1	VIDANGE-HUILE DE MOTEUR (ASS)	54
		1	VIDANGE-HUILE DE MOTEUR (ASS)	55
BOUCHON DE GOULOTTE DE REMPLISSAGE (ENS) (HUILE MOTEUR)	227-4531	1	CACHE-SOUPAPES (ASS)	37
		1	CACHE-SOUPAPES (ASS)	38
		1	COUVERCLE DE CARTER AV (ASS)	30
BOUCHON DE VIDANGE (MOTEUR)	9S-8008	1	COUVERCLE DE CARTER AV (ASS)	33
		1	BOUCHON DE MOTEUR (ASS)	140
		1	BOUCHON DE MOTEUR (ASS)	143
BOUCHON FILETÉ (VIDANGE) (CARTER DE PIGNON ARRIÈRE)	5F-0304	1	PIGNON AR (ASS)	108
BOURRELET D'ÉTANCHÉITÉ (23-DM)(COUVERCLE DE CULBUTEUR)	217-5701		CACHE-SOUPAPES (ASS)	37
			CACHE-SOUPAPES (ASS)	38
BOURRELET D'ÉTANCHÉITÉ (23-DM)(SUPPORT DE CULBUTERIE)	217-5701		CACHE-SOUPAPES (ASS)	37
COURROIE D'ENTRAÎNEMENT MULTIPLE (ASS) (ENTRAÎNEMENT AUXILIAIRE)	208-2833	1	ENTRAÎNEMENT AUXILIAIRE - POULIE (ASS)	147
COURROIE (ENTRAÎNEMENT AUXILIAIRE)	211-3576	1	POULIE (ASS)	145
COURROIE TRAPEZOIDALE (POMPE À EAU)	9L-4896	1	ENTRAÎNEMENT DE POMPE À EAU (ASS)	70
JOINT (ENS) (BASE DE CULBUTERIE)	268-3490	1	CACHE-SOUPAPES (ASS)	38
RENIFLARD (ENS) (VILEBREQUIN)	240-0041	1	BLOC-CYLINDRES - COUVERCLE (ASS)	26
SYSTEME D'ÉCHAPPEMENT ET D'ADMISSION D'AIR				
ÉLÉMENT DE FILTRE À AIR (ENS) (SECONDAIRE) (FILTRE À AIR)	6I-2510	1	FILTRE A AIR (ASS)	255
ÉLÉMENT PRINCIPAL (ENS) (FILTRE À AIR)	132-7167	1	FILTRE A AIR (ASS)	255
RAMASSE-POUSSIÈRE (PRÉFILTRE À AIR)	2S-6708	1	PREFILTRE (ASS)	280

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
MOTOR BÁSICO				
CORREA (MANDO AUXILIAR)	211 - 3576	1	POLEA (GR)	145
CORREA TRAPEZOIDAL (BOMBA DE AGUA)	9L - 4896	1	MANDO DE LA BOMBA DE AGUA (GR)	70
GRUPO DE CORREA- SERPENTIN (MANDO AUXILIAR)	208 - 2833	1	POLEA DE MANDO AUXILIAR (GR)	147
RESPIRADERO (CONJ) (CÁRTER DEL MOTOR)	240 - 0041	1	TAPA DEL BLOQUE MOTOR (GR)	26
*SEAL AS (*VALVE MECHANISM BASE)	268 - 3490	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	38
SELLO (*23-DM)(VALVE MECHANISM BASE)	217 - 5701		TAPA DEL MECANISMO DE VÁLVULAS (GR)	37
SELLO (*23-DM)(VALVE MECHANISM COVER)	217 - 5701		TAPA DEL MECANISMO DE VÁLVULAS (GR)	37
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	38
TAPA DE LLENADO (CONJ) (ACEITE DE MOTOR)	227 - 4531	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	37
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	38
TAPA DE LLENADO (CONJ) (ACEITE DEL MOTOR)	241 - 5645	1	TAPA DE LA CAJA DELANTERA (GR)	30
			TAPA DE LA CAJA DELANTERA (GR)	33
TAPÓN DE DRENAJE (MOTOR)	9S - 8008	1	TAPÓN DEL MOTOR (GR)	140
			TAPÓN DEL MOTOR (GR)	143
TAPÓN (DRENAJE) (CAJA DE ENGRANAJES TRASEROS)	5F - 0304	1	ENGRANAJE TRASERO (GR)	108
TAPÓN MAGNÉTICO (DRENAJE DE COLECTOR DE ACEITE DE MOTOR)	118 - 3619	2	DRENAJE DEL ACEITE DE MOTOR	53
			DRENAJE DEL ACEITE DE MOTOR	54
			DRENAJE DEL ACEITE DE MOTOR	55
SISTEMA DE ADMISION DE AIRE Y ESCAPE				
COLECTOR DE POLVO (ANTEFILTRO DE AIRE)	2S - 6708	1	ANTEFILTRO (GR)	280
ELEMENTO DEL FILTRO DE AIRE (CONJ) (SECUNDARIO) (FILTRO DE AIRE)	6I - 2510	1	FILTRO DE AIRE (GR)	255
ELEMENTO PRIMARIO (CONJ) (FILTRO DE AIRE)	132 - 7167	1	FILTRO DE AIRE (GR)	255

* NO HAY TRADUCCION DISPONIBLE EN EL MOMENTO DE LA IMPRESION

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA DE COMBUSTIBLE				
EMPAQUETADURA (BOMBA DE CEBADO DE COMBUSTIBLE)	1P-0436	1	BOMBA DE CEBADO DE COMBUSTIBLE (GR)	322
			TAPA DE LA BASE DEL FILTRO DE COMBUST. (GR)	290
			TUBERÍAS DEL FILTRO DE COMBUSTIBLE	304
			TUBERÍAS DEL FILTRO DE COMBUSTIBLE	312
FILTRO DE COMBUSTIBLE (CONJ)	1R-0751	1	FILTRO DE COMBUSTIBLE (GR)	291
	1R-0771	1	FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (GR)	294
FILTRO DE COMBUSTIBLE (CONJ) (EFICIENCIA AVANZADA) (SECUNDARIO(A))	1R-0762	1	TUBERÍAS DEL FILTRO DE COMBUSTIBLE	304
			TUBERÍAS DEL FILTRO DE COMBUSTIBLE	312
FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (CONJ) (PRIMARIO)	1R-0770	1	FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (GR)	292
SELLO ANULAR (SEPARADOR DE AGUA, COMBUSTIBLE)	220-8678	1	FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (GR)	294
SELLO ANULAR (SEPARADOR DE COMBUSTIBLE Y AGUA)	220-8678	1	FILTRO DE COMBUSTIBLE Y SEPARADOR DE AGUA (GR)	292
SISTEMA DE ENFRIAMIENTO				
EMPAQUETADURA (CAJA DEL TERMOSTATO DE AGUA)	191-4457	1	TUBERÍAS DEL AGUA (GR)	237
			TUBERÍAS DEL AGUA (GR)	239
EMPAQUETADURA (REGULADOR DE TEMPERATURA DE AGUA)	219-2340	1	TUBERÍAS DEL AGUA (GR)	237
			TUBERÍAS DEL AGUA (GR)	239
REGULADOR DE TEMPERATURA DEL AGUA (97 GRADOS C) (REFRIGERANTE)	284-5421	1	TUBERÍAS DEL AGUA (GR)	237
			TUBERÍAS DEL AGUA (GR)	239
REGULADOR DE TEMPERATURA DEL AGUA (98 GRADOS C) (REFRIGERANTE)	247-7133	1	TUBERÍAS DEL AGUA (GR)	239
			TUBERÍAS DEL AGUA (GR)	237
SELLO DE LABIO (REGULADOR DE TEMPERATURA DEL AGUA)	3S-9643	1	TUBERÍAS DEL AGUA (GR)	239
			TUBERÍAS DEL AGUA (GR)	237
TAPA DE PRESION (7 LB/PULG2) (RADIADOR)	6L-8617	1	TUBERÍAS DEL AGUA (GR)	239
			RADIADOR (GR)	252
TAPÓN DE DRENAJE (BOMBA DE AGUA)	9S-8008	1	BOMBA DE AGUA (GR)	243
TAPÓN DE DRENAJE (CAJA DEL REGULADOR DE AGUA)	9S-8008	1	TUBERÍAS DEL AGUA (GR)	237
			TUBERÍAS DEL AGUA (GR)	239
TAPÓN DE DRENAJE (REFRIGERANTE DE ACEITE DE TRANSMISIÓN)	8M-9307	1	ENFRIADOR DE ACEITE DE LA TRANSMISIÓN (GR)	216

* NO HAY TRADUCCION DISPONIBLE EN EL MOMENTO DE LA IMPRESION

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA DE LUBRICACIÓN				
FILTRO DE ACEITE DEL MOTOR (CONJ)	1R-1808	1	FILTRO DE ACEITE DEL MOTOR (GR)	183
		1	FILTRO DE ACEITE DEL MOTOR (GR)	184
		1	FILTRO DE ACEITE DEL MOTOR (GR)	185
MANGUERA DE ESCAPE DE GASES	193-5510	1	ESCAPE DE GASES (GR)	186
TAPA DE LLENADO (CONJ) (ACEITE DEL MOTOR)	5L-2952	1	TUBO DE LLENADO DE ACEITE (GR)	177
	6N-2985	1	TUBO DE LLENADO DE ACEITE (GR)	178
	241-5645	1	TUBO DE LLENADO DE ACEITE (GR)	179
		1	TUBO DE LLENADO DE ACEITE (GR)	180
		1	TUBO DE LLENADO DE ACEITE (GR)	181
		1	TUBO DE LLENADO DE ACEITE (GR)	182
TAPA DEL TUBO DE LLENADO DE ACEITE (TURBOALIMENTADOR)	9L-8439	1	TURBOCOMPRESOR - TUBERÍAS DE ACEITE DEL (GR)	203
		1	TURBOCOMPRESOR - TUBERÍAS DE ACEITE DEL (GR)	204
SISTEMA ELECTRICO Y DE ARRANQUE				
DISYUNTOR DE CIRCUITO (GR) (15 AMPERIOS)	6T-3643	2	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	349
ELEMENTO DEL CALENTADOR DEL AGUA DE LAS CAMISAS (240 VOLTIOS, 1500 VATIOS)	6T-3764	1	AGUA DE LAS CAMISAS - CALENTADOR DEL (GR)	359
LAMPARA INDICADORA (CONJ)	2N-2371	1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	349
LÁMPARA (24 VOLTIOS)	7N-5876	2	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	349
LLAVE (ENCENDIDO)	5P-8500	1	CONTROL AUTOMÁTICO DE ARRANQUE Y PARADA	349

* NO HAY TRADUCCION DISPONIBLE EN EL MOMENTO DE LA IMPRESION

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
MOTOR BÁSICO				
BUJÃO DO DRENO (MOTOR)	9S-8008	1	BUJÃO DO MOTOR	140
		1	BUJÃO DO MOTOR	143
BUJÃO MAGNÉTICO (DRENO DO CÂRTER DO MOTOR)	118-3619	2	DRENO - ÓLEO DO MOTOR	53
		1	DRENO - ÓLEO DO MOTOR	54
		1	DRENO - ÓLEO DO MOTOR	55
CORREIA - SERPENTINA (COMANDO AUXILIAR)	208-2833	1	POLIA DO COMANDO AUXILIAR	147
CORREIA (COMANDO AUXILIAR)	211-3576	1	POLIA	145
CORREIA EM V (BOMBA D'ÁGUA)	9L-4896	1	COMANDO DA BOMBA D'ÁGUA	70
RESPIRO (CÂRTER)	240-0041	1	TAMPA - BLOCO DO MOTOR	26
RETENTOR (BASE DO MECANISMO DA VÁLVULA)	268-3490	1	TAMPA - MECANISMO DAS VÁLVULAS	38
RETENTOR (23 DM)(BASE DO MECANISMO DA VÁLVULA)	217-5701		TAMPA - MECANISMO DAS VÁLVULAS	37
RETENTOR (23 DM)(TAMPA DO MECANISMO DA VÁLVULA)	217-5701		TAMPA - MECANISMO DAS VÁLVULAS	37
			TAMPA - MECANISMO DAS VÁLVULAS	38
TAMPA - BOCAL DE ENCHIMENTO (ÓLEO DO MOTOR)	227-4531	1	TAMPA - MECANISMO DAS VÁLVULAS	37
		1	TAMPA - MECANISMO DAS VÁLVULAS	38
	241-5645	1	TAMPA - CAIXA DIANTEIRA	30
		1	TAMPA - CAIXA DIANTEIRA	33
TAMPÃO (DRENAGEM) (ALOJAMENTO DA ENGRENAGEM TRASEIRA)	5F-0304	1	ENGRENAGENS DE COMANDO TRASEIRO	108
POSIÇÃO DE MARCHA À RÉ, INDICADOR DE FALHA				
CHAVE (IGNIÇÃO)	5P-8500	1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	349
ELEMENTO - AQUECEDOR DE ÁGUA DA CAMISA (240 VOLTS, 1500 WATTS)	6T-3764	1	AQUECEDOR DA ÁGUA DO MOTOR	359
INTERRUPTOR - CIRCUITO (15 AMPERES)	6T-3643	2	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	349
LÂMPADA INDICADORA	2N-2371	1	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	349
LÂMPADA (24 VOLTS)	7N-5876	2	CONTROLE AUTOMÁTICO - DAR PARTIDA/PARAR	349
SISTEMA DE ADMISSÃO E ESCAPE				
COLETOR DE POEIRA (PRÉ-PURIFICADOR DO AR)	2S-6708	1	PRÉ-PURIFICADOR	280
ELEMENTO - PRIMÁRIO (PURIFICADOR DE AR)	132-7167	1	PURIFICADOR DE AR	255
ELEMENTO DO FILTRO DE AR (SECUNDÁRIO) (PURIFICADOR DE AR)	6I-2510	1	PURIFICADOR DE AR	255

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
SISTEMA DE ARREFECIMENTO				
BUJÃO DO DRENO (ALOJAMENTO DO REGULADOR DE ÁGUA)	9S-8008	1	TUBOS - ÁGUA	237
			1 TUBOS - ÁGUA	239
BUJÃO DO DRENO (ARREFECEDOR DO ÓLEO DA TRANSMISSÃO)	8M-9307	1	ARREFECEDOR DE ÓLEO DA TRANSMISSÃO	216
BUJÃO DO DRENO (BOMBA D'ÁGUA)	9S-8008	1	BOMBA DE ÁGUA	243
JUNTA (ALOJAMENTO DO REGULADOR DA ÁGUA)	191-4457	1	TUBOS - ÁGUA	237
			1 TUBOS - ÁGUA	239
JUNTA (REGULADOR DA TEMPERATURA DA ÁGUA)	219-2340	1	TUBOS - ÁGUA	237
			1 TUBOS - ÁGUA	239
REGULADOR DE TEMPERATURA DA ÁGUA (97 GRAUS C) (LÍQUIDO ARREFECEDOR)	284-5421	1	TUBOS - ÁGUA	237
			1 TUBOS - ÁGUA	239
REGULADOR DE TEMPERATURA DA ÁGUA (98 GRAUS C) (LÍQUIDO ARREFECEDOR)	247-7133	1	TUBOS - ÁGUA	237
			1 TUBOS - ÁGUA	239
TAMPA DE PRESSÃO (7 PSI) (RADIADOR)	6L-8617	1	RADIADOR	252
VEDADOR TIPO LABIO (REGULADOR DA TEMPERATURA DA ÁGUA)	3S-9643	1	TUBOS - ÁGUA	237
			1 TUBOS - ÁGUA	239
SISTEMA DE COMBUSTÍVEL				
FILTRO - COMBUSTÍVEL	1R-0751	1	FILTRO - COMBUSTÍVEL	291
	1R-0771	1	FILTRO DE COMBUSTÍVEL E SEPARADOR DE ÁGUA	294
FILTRO - COMBUSTÍVEL (EFICIÊNCIA AVANÇADA) (SECUNDÁRIO)	1R-0762	1	TUBOS - FILTRO DO COMBUSTÍVEL	304
			1 TUBOS - FILTRO DO COMBUSTÍVEL	312
FILTRO - SEPARADOR DE ÁGUA E COMBUSTÍVEL (PRIMÁRIO)	1R-0770	1	FILTRO DE COMBUSTÍVEL E SEPARADOR DE ÁGUA	292
JUNTA (BOMBA DE ESCORVA DE COMBUSTÍVEL)	1P-0436	1	BOMBA DE ESCORVA DO COMBUSTÍVEL	322
			1 TAMPA - BASE DO FILTRO DE COMBUSTÍVEL	290
			1 TUBOS - FILTRO DO COMBUSTÍVEL	304
			1 TUBOS - FILTRO DO COMBUSTÍVEL	312
RETENTOR TIPO ANEL (SEPARADOR DE ÁGUA, COMBUSTÍVEL)	220-8678	1	FILTRO DE COMBUSTÍVEL E SEPARADOR DE ÁGUA	294
RETENTOR TIPO ANEL (SEPARADOR DE ÁGUA E COMBUSTÍVEL)	220-8678	1	FILTRO DE COMBUSTÍVEL E SEPARADOR DE ÁGUA	292

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
SISTEMA DE LUBRIFICAÇÃO				
FILTRO - ÓLEO DO MOTOR	1R - 1808	1	FILTRO - ÓLEO DO MOTOR	183
		1	FILTRO - ÓLEO DO MOTOR	184
		1	FILTRO - ÓLEO DO MOTOR	185
MANGUEIRA - ELIMINAÇÃO DE VAPORES	193 - 5510	1	ELIMINAÇÃO DE VAPORES DO CÂRTER	186
TAMPA - BOCAL DE ENCHIMENTO DE ÓLEO (TURBOALIMENTADOR)	9L - 8439	1	TUBOS - ÓLEO DO TURBOALIMENTADOR	203
		1	TUBOS - ÓLEO DO TURBOALIMENTADOR	204
TAMPA - BOCAL DE ENCHIMENTO (ÓLEO DO MOTOR)	5L - 2952	1	BOCAL DE ENCHIMENTO DE ÓLEO DO MOTOR	177
	6N - 2985	1	BOCAL DE ENCHIMENTO DE ÓLEO DO MOTOR	178
	241 - 5645	1	BOCAL DE ENCHIMENTO DE ÓLEO DO MOTOR	179
		1	BOCAL DE ENCHIMENTO DE ÓLEO DO MOTOR	180
		1	BOCAL DE ENCHIMENTO DE ÓLEO DO MOTOR	181
		1	BOCAL DE ENCHIMENTO DE ÓLEO DO MOTOR	182

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
ELEKTRISCHE ANLAGE UND STARTSYSTEM				
KONTROLLEUCHE	2N-2371	1	AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	349
LEUCHE (24 V)	7N-5876	2	AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	349
SCHLÜSSEL (ZÜNDUNG)	5P-8500	1	AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	349
UMLAUFKÜHLWASSERHEIZUNGS- ELEMENT (240 V, 1500 W)	6T-3764	1	UMLAUFKÜHLWASSERHEIZUNG	359
UNTERBRECHER (15 A)	6T-3643	2	AUTOMATIKSTEUERUNG (STARTEN/ABSTELLEN)	349
KRAFTSTOFFSYSTEM				
DICHTUNG (KRAFTSTOFFENTLÜF- TUNGSPUMPE)	1P-0436	1	KRAFTSTOFF-ENTLÜFTUNGSPUMPE	322
			1 KRAFTSTOFFFILTERLEITUNGEN	304
			1 KRAFTSTOFFFILTERLEITUNGEN	312
			1 KRAFTSTOFFFILTERSOCKELDECKEL	290
DICHTUNGSRING (KRAFTSTOFF, WASSERABSCHEIDER)	220-8678	1	WASSERABSCHEIDER- U. KRAFTSTOFFFILTER	292
DICHTUNGSRING (WASSERABSCHEIDER, KRAFTSTOFF)	220-8678	1	WASSERABSCHEIDER- U. KRAFTSTOFFFILTER	294
KRAFTSTOFFFILTER	1R-0751	1	KRAFTSTOFFFILTER	291
	1R-0771	1	WASSERABSCHEIDER- U. KRAFTSTOFFFILTER	294
KRAFTSTOFFFILTER (HOCHLEISTUNG) (AUSFALLSCHUTZ)	1R-0762	1	KRAFTSTOFFFILTERLEITUNGEN	304
			1 KRAFTSTOFFFILTERLEITUNGEN	312
WASSERABSCHEIDER UND KRAFTSTOFFFILTER (HAUPTLEMENT)	1R-0770	1	WASSERABSCHEIDER- U. KRAFTSTOFFFILTER	292

* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
KÜHLSYSTEM				
ABLASSTOPFEN (GETRIEBESÖLKÜHLER)	8M-9307	1	GETRIEBEÖLKÜHLER	216
ABLASSTOPFEN (WASSERPUMPE)	9S-8008	1	KÜHLWASSERPUMPE	243
ABLASSTOPFEN (WASSERREGELUNGSGEHÄUSE)	9S-8008	1	KÜHLWASSERLEITUNGEN	237
		1	KÜHLWASSERLEITUNGEN	239
DICHTUNG (THERMOSTATGEHÄUSE)	191-4457	1	KÜHLWASSERLEITUNGEN	237
		1	KÜHLWASSERLEITUNGEN	239
DICHTUNG (WASSESTEMPERATUR- REGLER)	219-2340	1	KÜHLWASSERLEITUNGEN	237
		1	KÜHLWASSERLEITUNGEN	239
DRUCKKAPPE (7 PSI) (KÜHLER)	6L-8617	1	KÜHLER	252
LIPPENDICHTUNG (KÜHLWASSERTHERMOSTAT)	3S-9643	1	KÜHLWASSERLEITUNGEN	237
		1	KÜHLWASSERLEITUNGEN	239
WASSESTEMPERATURREGLER (97 GRAD CELSIUS) (KÜHLMITTEL)	284-5421	1	KÜHLWASSERLEITUNGEN	237
		1	KÜHLWASSERLEITUNGEN	239
WASSESTEMPERATURREGLER (98 GRAD C) (KÜHLMITTEL)	247-7133	1	KÜHLWASSERLEITUNGEN	237
		1	KÜHLWASSERLEITUNGEN	239
LUFTANSAUG- UND ABGASSYSTEM				
HAUPTFILTER (LUFTREINIGER)	132-7167	1	LUFTREINIGER	255
LUFTFILTER (HILFSELEMENT) (LUFTREINIGER)	6I-2510	1	LUFTREINIGER	255
STAUBFÄNGER (*AIR PRECLEANER)	2S-6708	1	VORREINIGER	280

* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
MOTOR (GRUNDAUSFÜHRUNG)				
ABLASSTOPFEN (MOTOR)	9S-8008	1	MOTORSTOPFEN	140
		1	MOTORSTOPFEN	143
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ENGINE ARRANGEMENT

244-6783 ENGINE AR-CORE

SMCS-1000

i02340856

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-9723	1	PUMP GP-FUEL INJECTION						321
Y	256-1249	1	TURBOCHARGER GP						286
Y	242-0447	1	VALVE MECHANISM GP						176
	245-0627	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

252-4430 ENGINE AR-CORE

SMCS-1000

i02495058

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-3362	1	PUMP GP-FUEL INJECTION						318
Y	256-1380	1	TURBOCHARGER GP						288
Y	242-0447	1	VALVE MECHANISM GP						176
	255-8231	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

252-4432 ENGINE AR-CORE

SMCS-1000

i02377116

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-9723	1	PUMP GP-FUEL INJECTION						321
Y	256-1249	1	TURBOCHARGER GP						286
Y	242-0447	1	VALVE MECHANISM GP						176
	255-8234	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

252-4433 ENGINE AR-CORE

SMCS-1000

i02596417

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-9723	1	PUMP GP-FUEL INJECTION						321
Y	256-1249	1	TURBOCHARGER GP						286
Y	242-0447	1	VALVE MECHANISM GP						176
	255-8236	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

252-4436 ENGINE AR-CORE

SMCS-1000

i02283665

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-9723	1	PUMP GP-FUEL INJECTION						321
Y	256-1380	1	TURBOCHARGER GP						288
Y	242-0447	1	VALVE MECHANISM GP						176
	252-8760	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

256-3690 ENGINE AR-CORE

SMCS-1000

i02285076

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-9723	1	PUMP GP-FUEL INJECTION						321
Y	256-1377	1	TURBOCHARGER GP						287
Y	242-0447	1	VALVE MECHANISM GP						176
	255-8242	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

261-2204 ENGINE AR-CORE

SMCS-1000

i02286043

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-9723	1	PUMP GP-FUEL INJECTION						321
Y	256-1377	1	TURBOCHARGER GP						287
Y	242-0447	1	VALVE MECHANISM GP						176
	256-3581	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

287-3653 ENGINE AR-CORE

SMCS-1000

i02596377

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	242-0674	1	CAMSHAFT GP						20
Y	188-3826	1	COOLER GP-ENGINE OIL						215
Y	217-8669	1	COVER GP-FRONT HOUSING						31
Y	164-6148	1	CRANKSHAFT GP						39
Y	161-3406	1	CYLINDER BLOCK GP						42
Y	242-0672	1	CYLINDER HEAD GP						46
Y	213-4363	1	FASTENER GP-CYLINDER HEAD						72
Y	205-1321	1	GEAR GP-FRONT						106
Y	209-0758	1	HOUSING GP-FRONT						121
Y	265-1400	6	PISTON & ROD GP						138
Y	220-8233	1	PUMP & MTG GP-UNIT INJ HYD						315
Y	195-8098	1	PUMP GP-ENGINE OIL						206
Y	267-9723	1	PUMP GP-FUEL INJECTION						321
Y	256-1201	1	TURBOCHARGER GP						285
Y	242-0447	1	VALVE MECHANISM GP						176
	287-1745	1	ELECTRONICS GP-ENGINE RATINGS						

Y-SEPARATE ILLUSTRATION

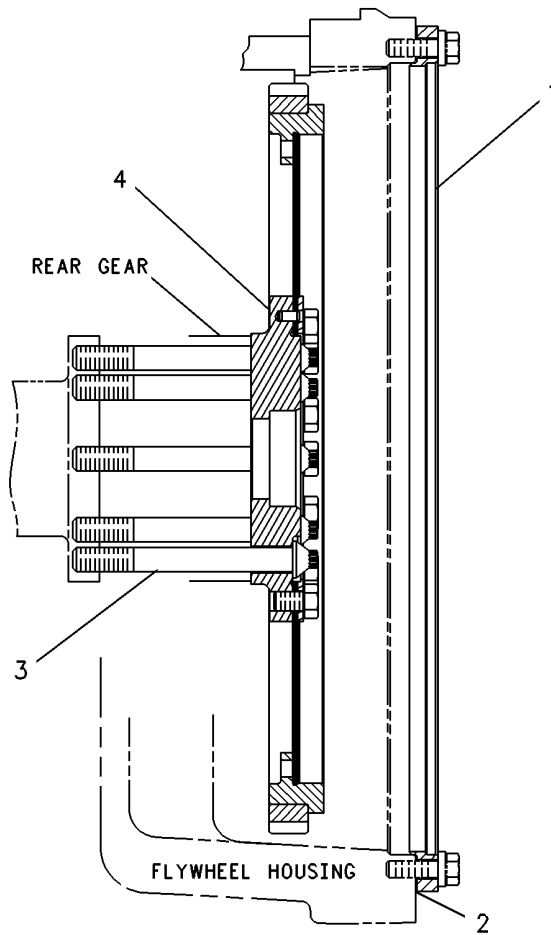
BASIC ENGINE

117-0208 ADAPTER GP-ENGINE TO TMSN AN ATTACHMENT

SMCS-1004, 1157

i02550832

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7E-3476	1	ADAPTER-HOUSING						
	2	1	7E-3478	1	GASKET						
	3	1	287-2538	8	BOLT-SOCKET HEAD (M16X2X135-MM)						
	4	1	6I-3612	1	PLATE AS-FLEXIBLE						



GRAPHIC #1

g00232751

BASIC ENGINE

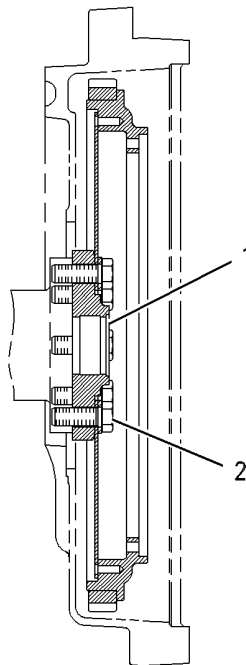
124-2665 ADAPTER GP-ENGINE TO TMSN

AN ATTACHMENT

SMCS-1004, 1157

i02490046

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	160-2280	1	KIT-ENGINE ADAPTER (TRANSMISSION) (INCLUDES BOLTS, ADAPTER AS, PLATE AS AND RETAINER RING)	
M	2	1	9X-2021	8	BOLT-LOCKING (M16X2X45-MM)	
M-METRIC PART						



GRAPHIC #1

<END>

g00461279

BASIC ENGINE

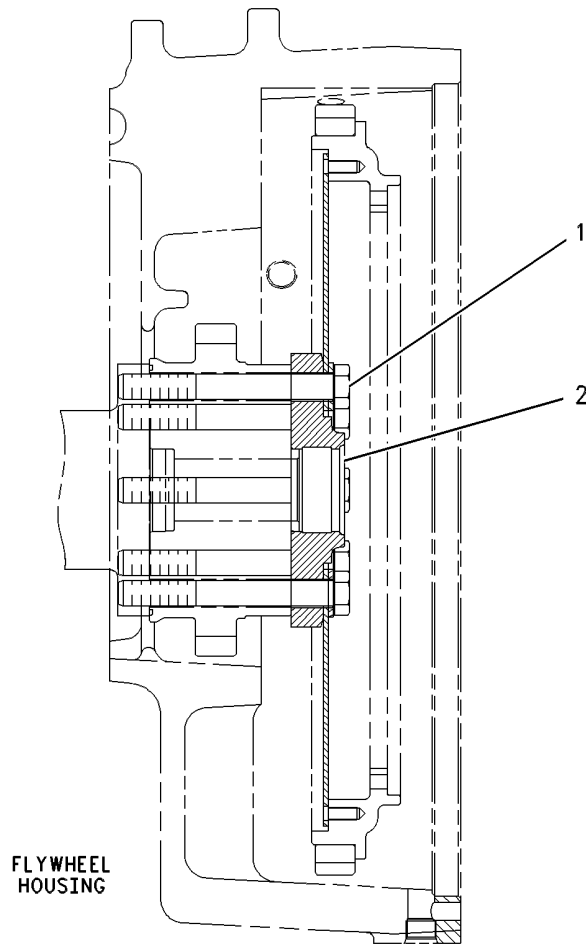
142-2024 ADAPTER GP-ENGINE TO TMSN AN ATTACHMENT

SMCS-1004, 1157

i02490058

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	146-5132	8	BOLT (M16X2X135-MM)						
	2	1	160-2280	1	KIT-ENGINE ADAPTER (TRANSMISSION) (INCLUDES BOLTS, ADAPTER AS, PLATE AS, & RETAINER RING)						

M-METRIC PART



GRAPHIC #1

<END>

g00461347

BASIC ENGINE

149-4915 AIR COMPRESSOR GP*R

PART OF 206-9661 AIR COMPRESSOR GP
AN ATTACHMENT

SMCS-1803

i02298782

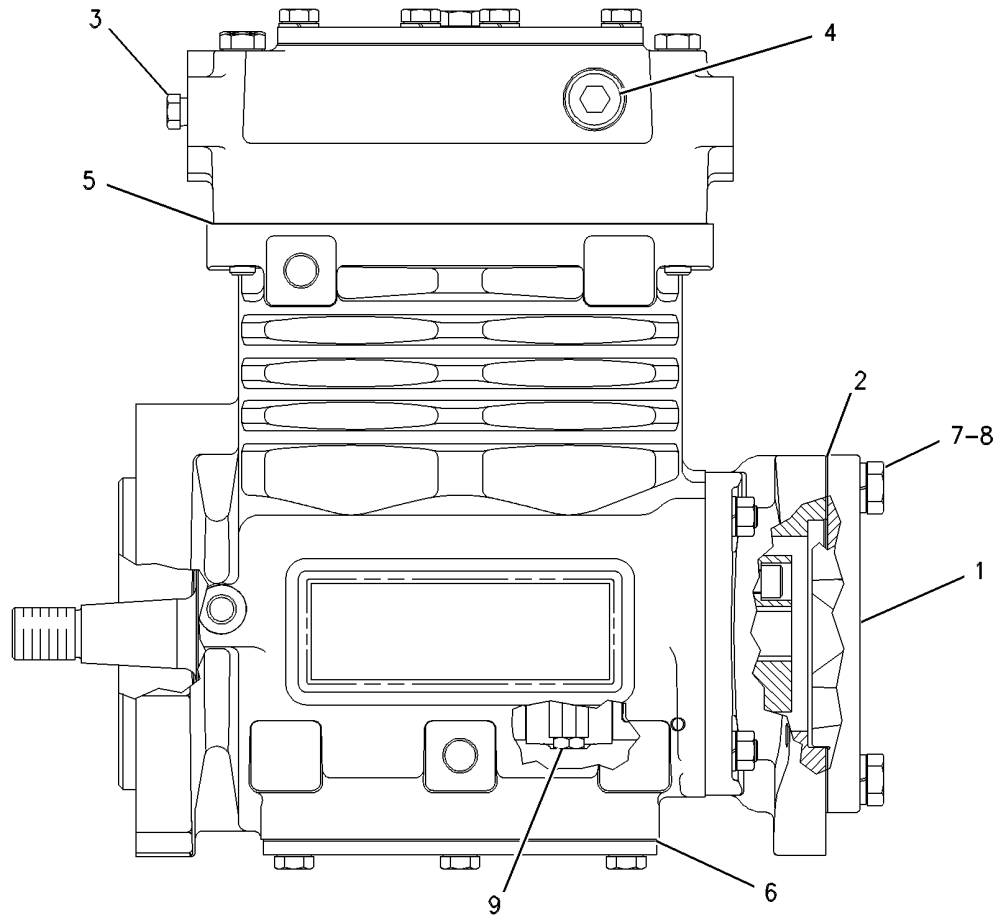
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2P-4358	1	FLANGE						
	2	1	6D-1004	1	GASKET						
	3	1	8T-6757	1	PLUG-PIPE						
	4	1	141-1546	1	PLUG-PIPE						
	5	1	4P-3977	1	GASKET-CYLINDER HEAD						
	6	1	7E-8928	1	GASKET						
M	7	1	6V-1820	2	BOLT (M10X1.5X30-MM)						
	8	1	6V-5839	2	WASHER (11X21X2.5-MM THK)						
	9	1	4P-3966	1	PISTON & ROD AS						
					AVAILABLE REPAIR KIT(S):						
			7E-8923	1	KIT-CRANKSHAFT BEARING (AIR COMPRESSOR) (INCLUDES FRONT COVER SEAL, FRONT MAIN AND REAR BEARINGS, FRONT AND REAR WASHERS, BEARING INSERTS, SLOTTED INSERTS, O-RING SEAL, CYLINDER HEAD AND BASE GASKETS)						
			7E-8925	1	KIT-STANDARD RING (AIR COMPRESSOR) (INCLUDES PISTON RINGS AND SPACERS)						
			7E-8926	1	KIT-CYLINDER HEAD (AIR COMPRESSOR) (INCLUDES UNLOADER PISTONS, UNLOADER SPRINGS, UNLOADER O-RING, UNLOADER GASKET, INLET VALVES, INLET VALVE STOPS, INLET VALVE SEATS, INLET SPRINGS, INLET GASKETS, DISCHARGE VALVES, DISCHARGE VALVE SEATS, DISCHARGE VALVE SPRINGS, DISCHARGE GASKET, GOVERNOR GASKET, STRAINER GASKET, AND CYLINDER HEAD GASKET)						

M-METRIC PART

BASIC ENGINE

149-4915 AIR COMPRESSOR GP (contd.)

i02298782



GRAPHIC #1

<END>

g00292919

BASIC ENGINE

164-7559 AIR COMPRESSOR GP*R

PART OF 239-6363 AIR COMPRESSOR GP
AN ATTACHMENT

SMCS-1803

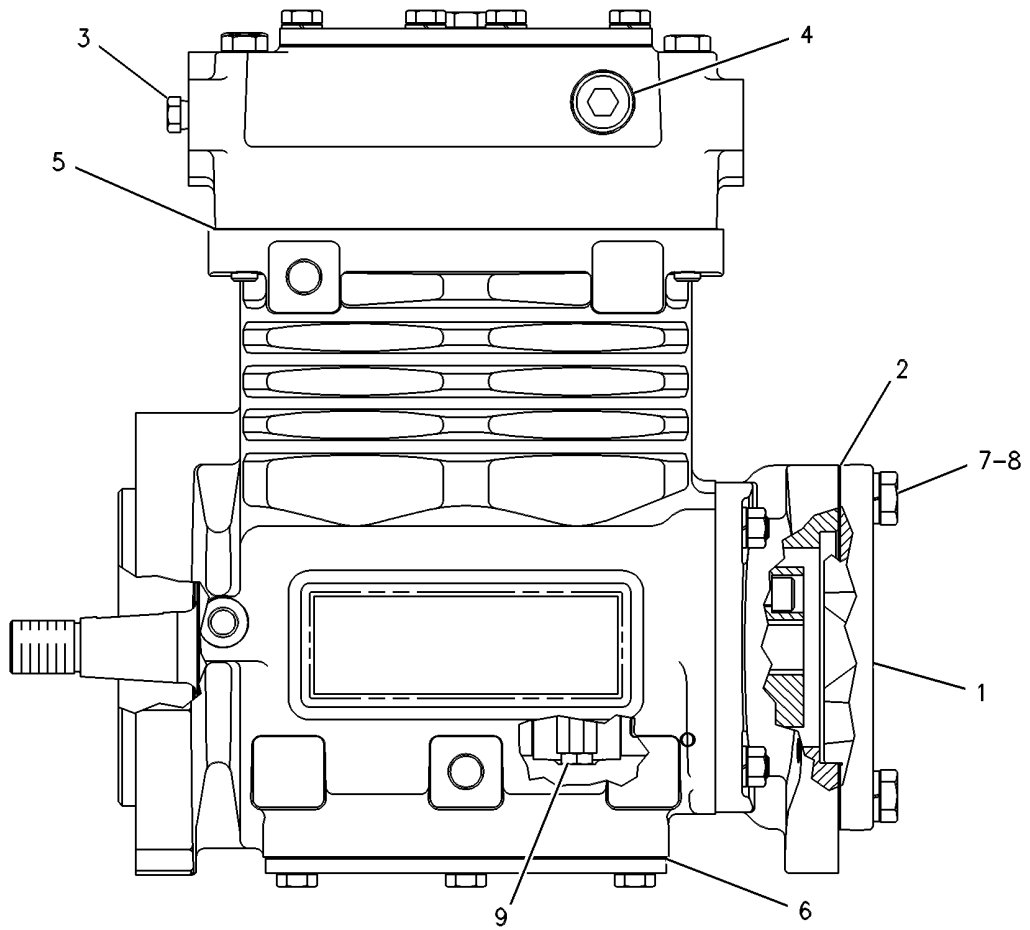
i01779792

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2P-4358	1	FLANGE						
	2	1	6D-1004	1	GASKET						
	3	1	8T-6764	1	PLUG-PIPE						
	4	1	6V-0387	1	PLUG-PIPE						
	5	1	4P-3977	1	GASKET-CYLINDER HEAD						
	6	1	7E-8928	1	GASKET						
M	7	1	6V-1820	2	BOLT (M10X1.5X30-MM)						
	8	1	6V-5839	2	WASHER (11X21X2.5-MM THK)						
	9	1	7E-8924	1	PISTON & ROD AS						
					AVAILABLE REPAIR KIT(S):						
			7E-8923	1	KIT-CRANKSHAFT BEARING (AIR COMPRESSOR) (INCLUDES SEALS, BEARINGS, WASHERS, INSERTS & GASKETS)						
			7E-8926	1	KIT-CYLINDER HEAD (AIR COMPRESSOR) (INCLUDES GASKETS, PISTONS, SPRINGS, SEALS, VALVES & SEATS)						
			164-7572	1	KIT-RING (AIR COMPRESSOR) (INCLUDES STANDARD, SEGMENT, AND SPACER RINGS)						
			150-5146	1	KIT-UNLOADER (AIR COMPRESSOR)						
M-METRIC PART											

BASIC ENGINE

164-7559 AIR COMPRESSOR GP (contd.)

i01779792



GRAPHIC #1

<END>

g00291651

BASIC ENGINE

206-9661 AIR COMPRESSOR GP

AN ATTACHMENT

SMCS-1803

i02265126

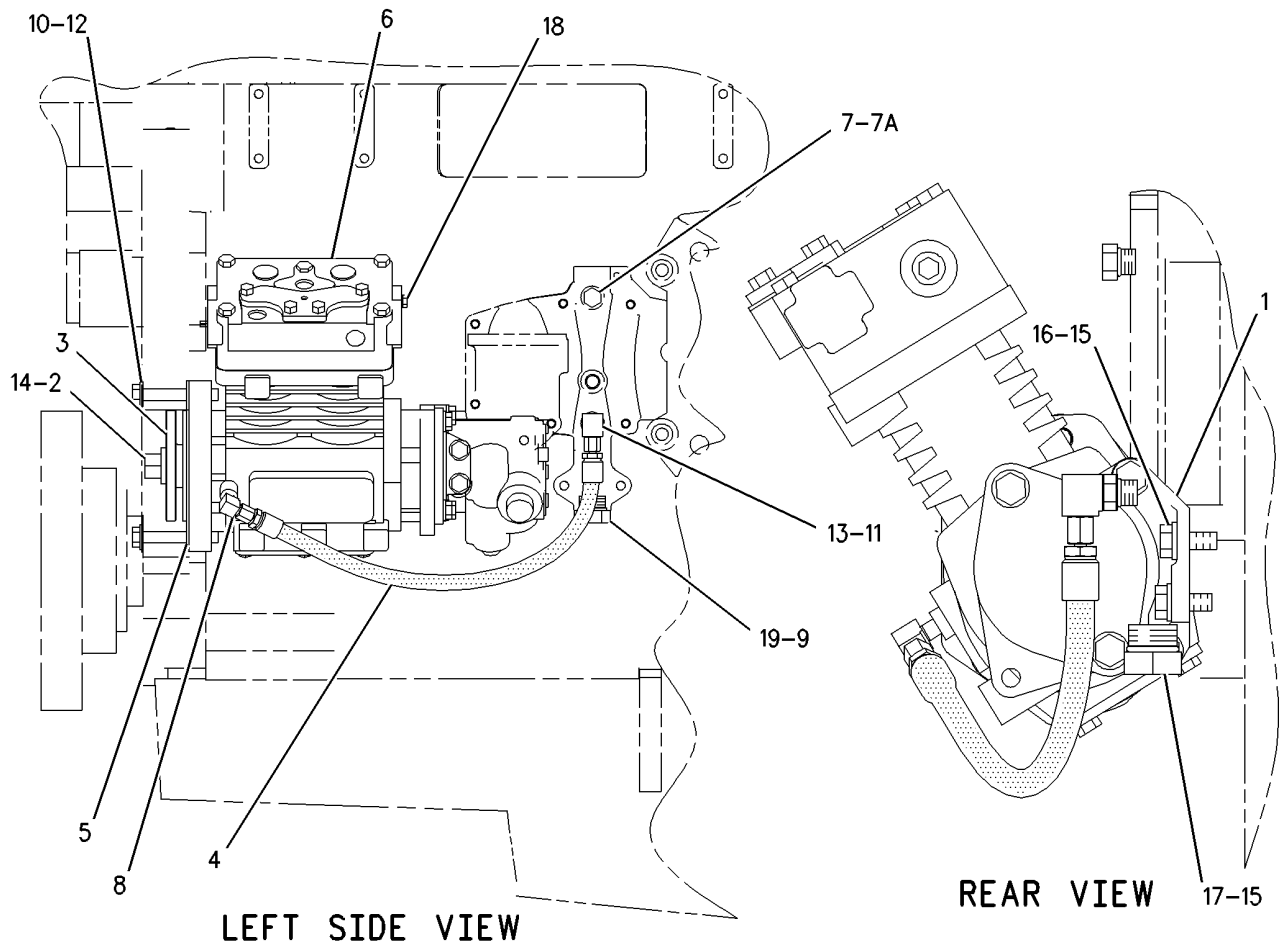
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	4P-5106	1	BRACKET	
	2	1	6B-6682	1	NUT-FULL (3/4-16-THD)	
	3	1	7C-3179	1	GEAR (50-TEETH)	
I	4	1	090-7055	1	HOSE AS	
	5	1	135-9819	1	SEAL	
YR	6	1	149-4915	1	AIR COMPRESSOR GP	12
	7	1	6V-5049	1	SEAL-O-RING	
	7A	1	9S-4191	1	PLUG-O RING	
	8	1	2N-1287	1	ELBOW-FLARED	
	9	1	3D-2824	1	SEAL-O-RING	
	10	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)	
	11	1	6V-5049	1	SEAL-O-RING	
M	12	1	6V-5696	2	BOLT (M12X1.75X80-MM)	
	13	1	7J-4026	1	ELBOW	
	14	1	7X-0521	1	WASHER-HARD (20X36.5X5-MM THK)	
	15	1	8T-4121	4	WASHER-HARD (11X21X2.5-MM THK)	
M	16	1	8T-4136	2	BOLT (M10X1.5X25-MM)	
M	17	1	8T-4195	2	BOLT (M10X1.5X30-MM)	
	18	1	8T-6764	1	PLUG-PIPE	
	19	1	9S-4183	1	PLUG-O RING	

I-REFER TO HYDRAULIC INFORMATION SYSTEM
M-METRIC PART
R-REMG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

BASIC ENGINE

206-9661 AIR COMPRESSOR GP (contd.)

i02265126



GRAPHIC #1

<END>

g00809052

BASIC ENGINE

239-6363 AIR COMPRESSOR GP

AN ATTACHMENT

SMCS-1803

i02504616

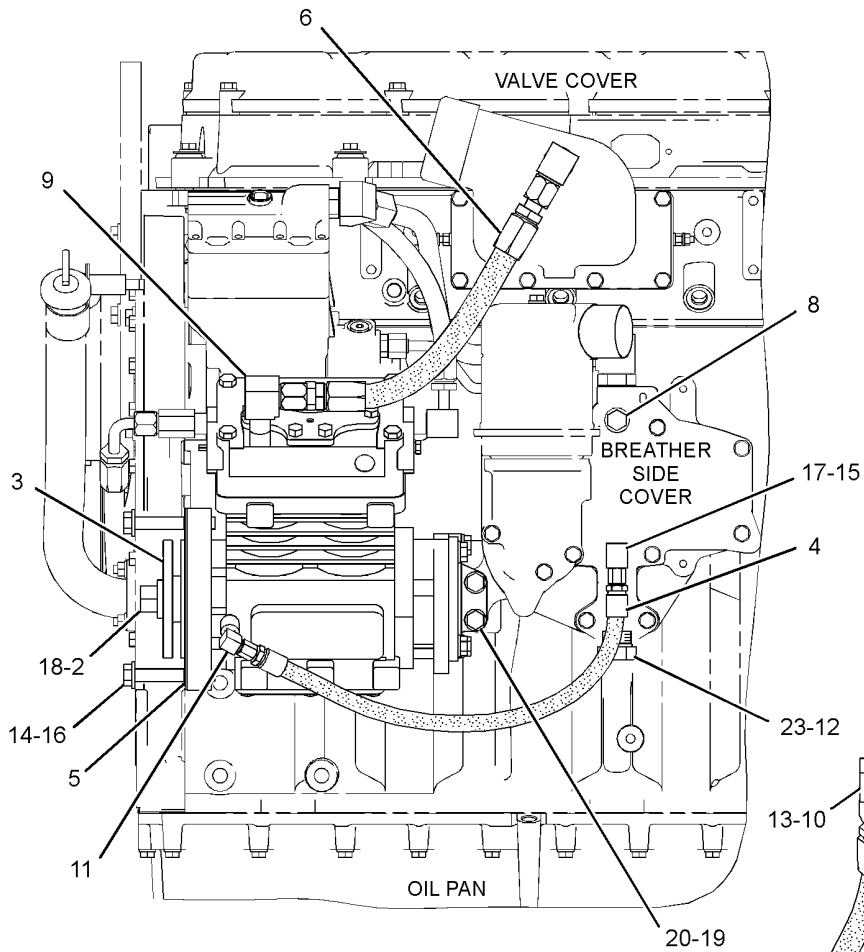
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4P-5106	1	BRACKET						
	2	1	6B-6682	1	NUT-FULL (3/4-16-THD)						
	3	1	7C-3179	1	GEAR (50-TEETH)						
I	4	1	090-7055	1	HOSE AS						
	5	1	135-9819	1	SEAL						
I	6	1	149-0763	1	HOSE AS						
YR	7	1	164-7559	1	AIR COMPRESSOR GP						14
	8	1	183-3406	1	PLUG AS						
		1	6V-5049	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-O RING						
	9	1	001-6936	1	ELBOW						
	10	1	103-4675	1	ELBOW						
	11	1	2N-1287	1	ELBOW-FLARED						
	12	1	3D-2824	1	SEAL-O-RING						
	13	1	3K-0360	1	SEAL-O-RING						
	14	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	15	1	6V-5049	1	SEAL-O-RING						
M	16	1	6V-5696	2	BOLT (M12X1.75X80-MM)						
	17	1	7J-4026	1	ELBOW						
	18	1	7X-0521	1	WASHER-HARD (20X36.5X5-MM THK)						
	19	1	8T-4121	4	WASHER-HARD (11X21X2.5-MM THK)						
M	20	1	8T-4136	2	BOLT (M10X1.5X25-MM)						
M	21	1	8T-4195	2	BOLT (M10X1.5X30-MM)						
	22	1	8T-6764	1	PLUG-PIPE						
	23	1	9S-4183	1	PLUG-O RING						

I-REFER TO HYDRAULIC INFORMATION SYSTEM
M-METRIC PART
R-REMGF PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION

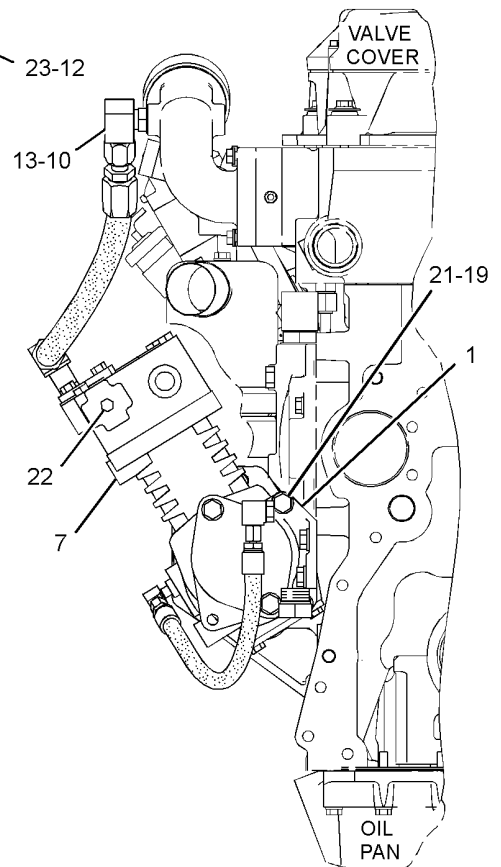
BASIC ENGINE

239-6363 AIR COMPRESSOR GP (contd.)

i02504616



LEFT SIDE VIEW OF ENGINE



REAR VIEW OF ENGINE

GRAPHIC #1

<END>

g01293667

BASIC ENGINE

242-0674 CAMSHAFT GP

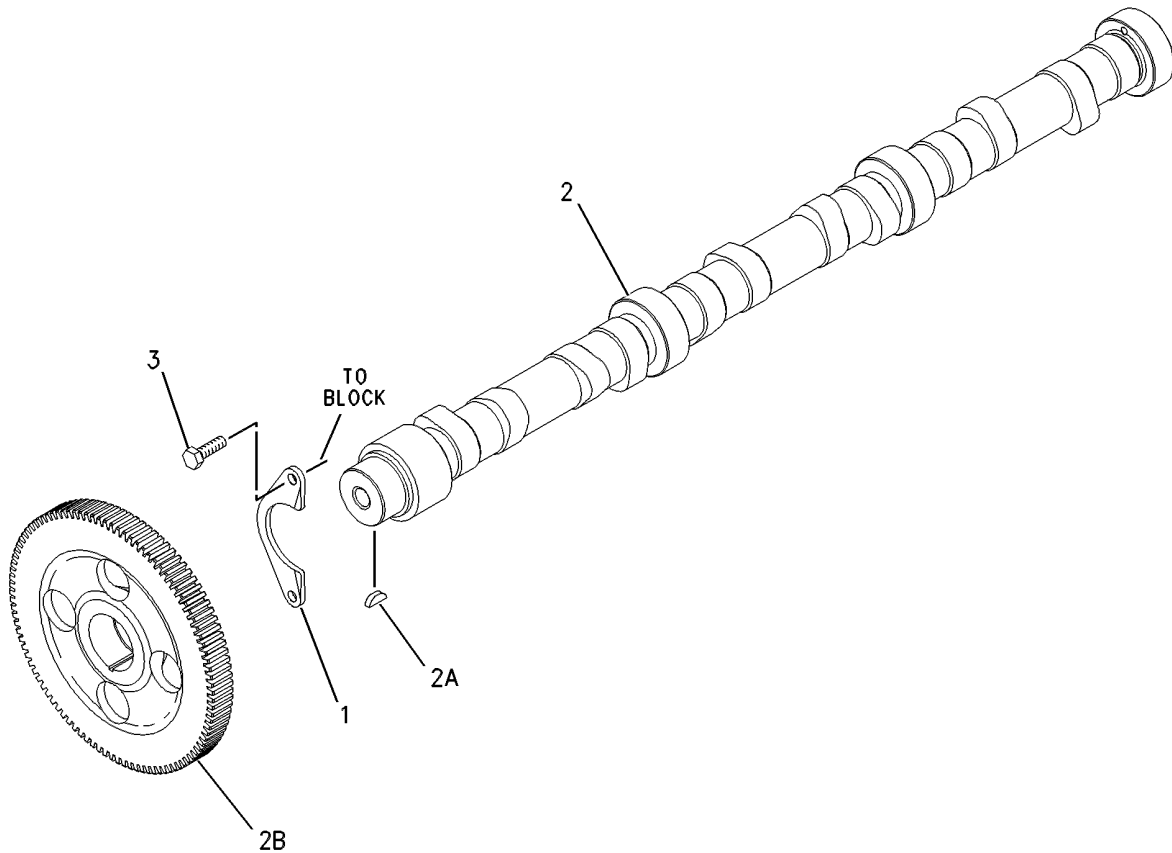
PART OF 287-3653 ENGINE AR-CORE

SMCS-1210

i02176918

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	107-7694	1	PLATE - THRUST						
	2	1	242-0673	1	CAMSHAFT AS						
	2A	1	1B-8705	1	KEY-WOODRUFF						
	2B	1	224-3247	1	GEAR (100-TEETH)						
M	3		6V-3940	2	BOLT (M8X1.25X25-MM)						

M - METRIC PART



GRAPHIC #1

<END>

g00626400

BASIC ENGINE

2W-4908 CLUTCH GP PART OF 2W-4909 POWER TAKE-OFF GP AN ATTACHMENT

SMCS-1007

i02549423

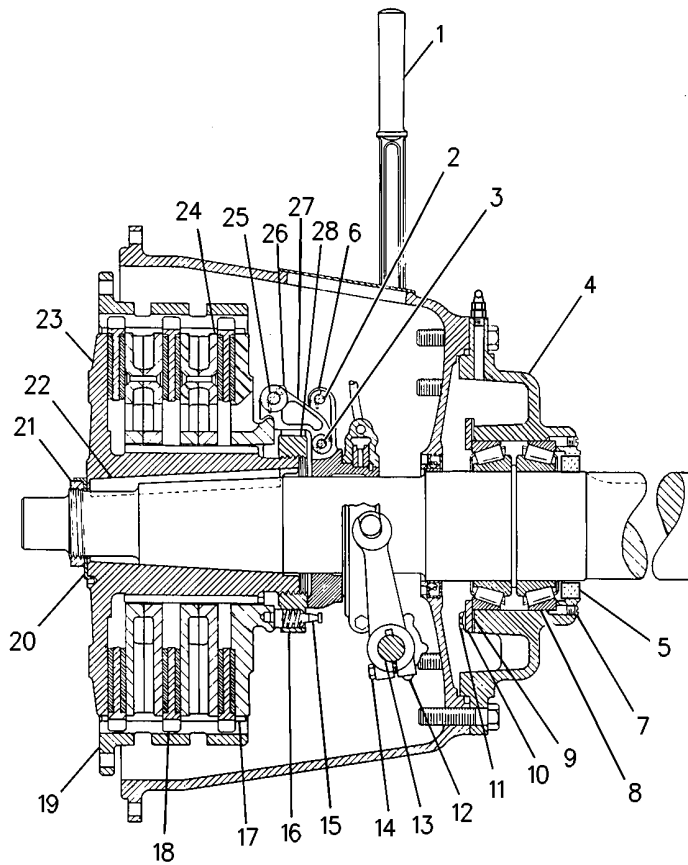
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4B-4810	1	LEVER AS-HAND						
		1	0S-1587	1	BOLT (1/2-13X1.75-IN)						
	2	1	6L-3969	4	PIN						
		1	6L-3964	8	PIN-COTTER (PIN)						
	3	1	6L-3970	4	PIN						
	4	1	3N-8427	1	CARRIER AS-BEARING						
		1	9F-2247	1	PLUG-PIPE						
	5	1	2W-4904	2	RING-SEAL						
	6	1	5L-3495	8	LINK-LEVER						
	7	1	2L-6010	2	PLUG-PIPE						
	8	1	5L-1545	2	CUP-BEARING						
		1	7L-6551	2	CONE-BEARING						
B	9	1	5L-3556	1	SHIM (0.0200-IN THK) (0.14MM THK)						
B		1	5L-3557	1	SHIM (0.010-IN THK) (0.2MM THK)						
B		1	5L-3558	1	SHIM (0.00700-IN THK) (0.28MM THK)						
B		1	5L-3559	1	SHIM (0.0050-IN THK) (0.56MM THK)						
	10	1	5L-3613	1	RETAINER-BEARING						
	11	1	0S-1594	6	BOLT (3/8-16X1-IN)						
		1	5L-3560	3	PLATE-LOCK						
	12	1	5L-3553	1	YOKE-OPERATING						
	13	1	5L-3485	1	SHAFT-CLUTCH LEVER						
		1	6L-5151	2	KEY-WOODRUFF						
	14	1	0S-1591	2	BOLT (3/8-16X1.5-IN)						
	15	1	3N-1462	1	PIN AS						
	16	1	3N-1461	1	SPRING						
	17	1	5L-3602	1	PLATE-PRESSURE						
	18	1	4P-3020	3	PLATE-DRIVE						
	19	1	3N-9175	1	RING-DRIVE						
	20	1	4B-4773	1	LOCK						
	21	1	4B-4764	1	NUT						
	22	1	3N-9176	1	KEY						
	23	1	3N-9178	1	PLATE-HUB & BACK						
	24	1	5L-3603	2	PLATE AS-CENTER						
	25	1	6L-4016	4	PIN						
	26	1	6L-3961	4	PIN-COTTER (PIN)						
	27	1	5L-3493	4	LEVER						
	28	1	5L-3492	1	YOKE-ADJUSTMENT						
	29	2	5L-3496	1	SLEEVE-SLIDING						
	32	2	5B-2410	1	HOSE AS						
	33	2	3B-8489	2	FITTING-GREASE						
		2	9S-1354	1	NUT (5/8-18-THD)						
		2	6F-0253	1	LOCKWASHER						
	34	2	1L-6931	2	SCREW AS-MACHINE (1/4-20X0.5-IN)						
	35	2	108-3561	1	PLATE-INSTRUCTION (POWER TAKE-OFF)						
	36	2	5L-3617	1	SEAL-RUBBER						
	38	2	4B-9782	1	BALL						
	39	2	3N-9180	1	SHAFT-CLUTCH						
	40	2	0S-1625	8	BOLT (5/8-11X2.5-IN)						
	41	2	5L-3487	1	COLLAR AS						
B	41A	2	5L-3561	2	SHIM (0.06-IN THK) (.06IN THK)						
	41B	2	2L-6267	2	LOCKNUT (3/8-24-THD)						
	41C	2	0L-1648	2	BOLT (3/8-24X2.5-IN)						
	42	2	3N-9179	1	HOUSING-CLUTCH						
		2	8B-7121	2	FITTING-HYDRAULIC						
	43	2	5P-3499	1	BALL BEARING						

B-USE AS REQUIRED

BASIC ENGINE

2W-4908 CLUTCH GP (contd.)

i02549423



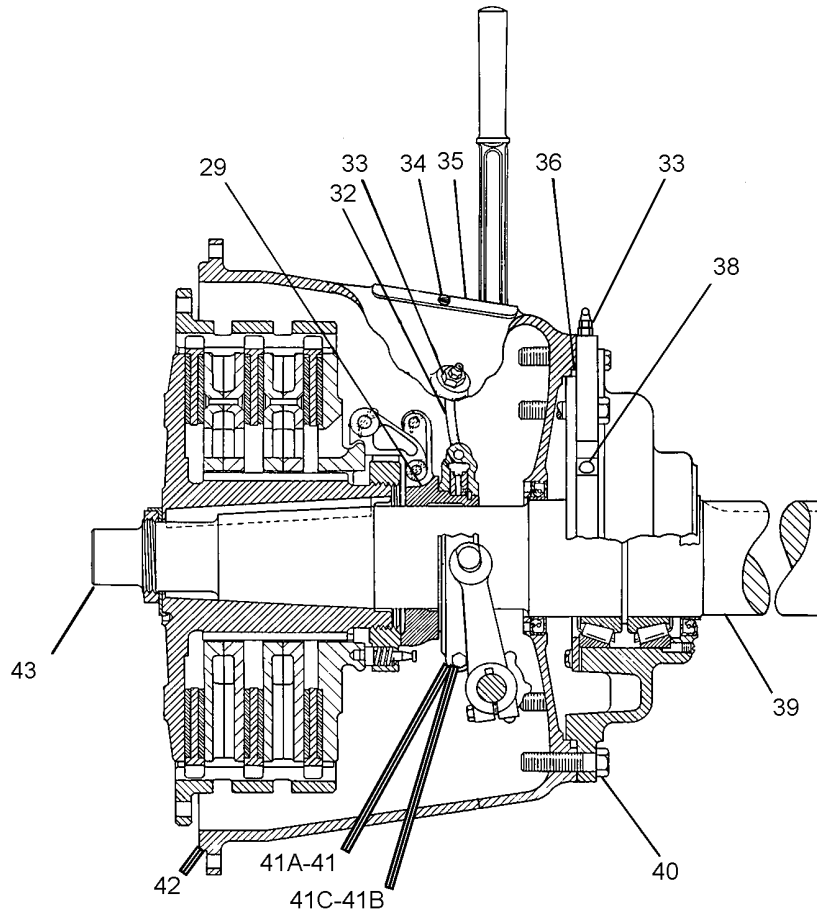
GRAPHIC #1

g00895096

BASIC ENGINE

2W-4908 CLUTCH GP (contd.)

i02549423



GRAPHIC #2

<END>

g01275834

BASIC ENGINE

178-9570 COMPRESSOR GP-REFRIGERANT

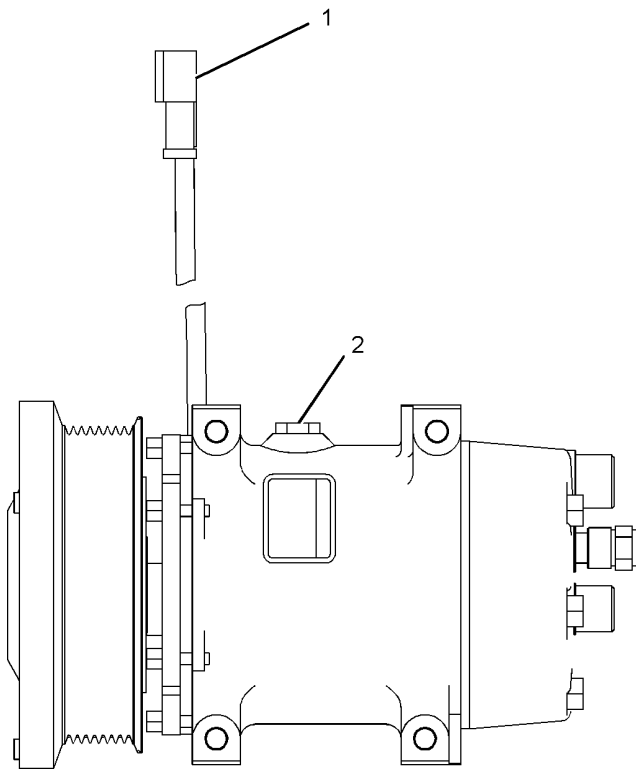
BASIC

PART OF 252-5565 COMPRESSOR GP-REFRIGERANT
AN ATTACHMENT

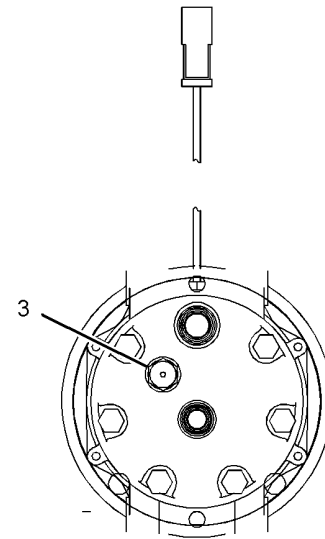
SMCS-1802

i02089812

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)						
					(INCLUDES RECEPTACLE AS AND WEDGE)						
	2	1	7T-4532	1	PLUG AS						
	3	1	114-3469	1	VALVE GP-RELIEF (REFRIGERANT COMPRESSOR)						
		1	9X-7378	1	SEAL-O-RING						



FRONT VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01073569

BASIC ENGINE

252-5565 COMPRESSOR GP-REFRIGERANT

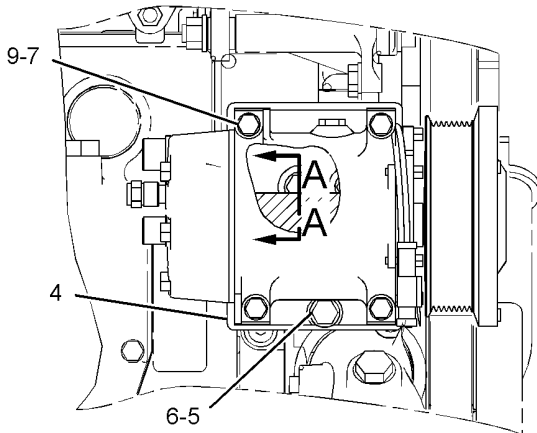
AN ATTACHMENT

SMCS-1802

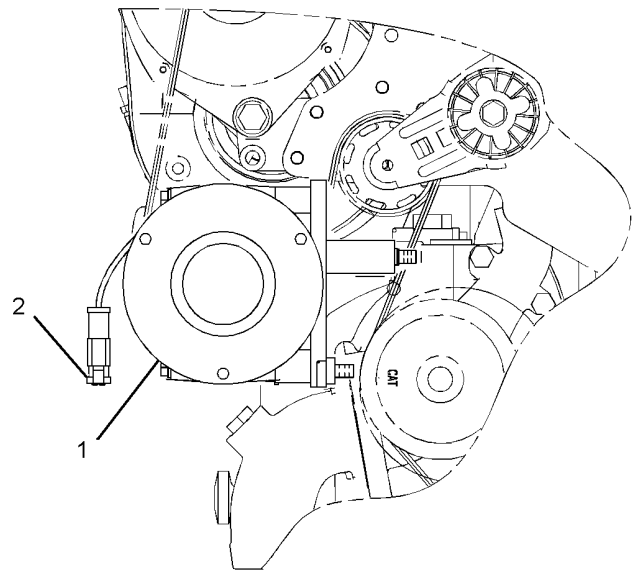
i02253802

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
Y	1	1	178-9570	1	COMPRESSOR GP-REFRIGERANT							24
	2	1	188-2128	1	PLUG AS							
	3	1	211-2101	2	SLEEVE							
	4	1	252-5566	1	SUPPORT AS-COMPRESSOR							
M	5	1	6V-5230	1	BOLT (M10X1.5X60-MM)							
	6	1	6V-5839	3	WASHER (11X21X2.5-MM THK)							
M	7	1	7X-2538	4	BOLT (M8X1.25X100-MM)							
M	8	1	8T-0643	2	BOLT (M10X1.5X80-MM)							
	9	1	8T-4224	4	WASHER-HARD (8.8X16X2-MM THK)							

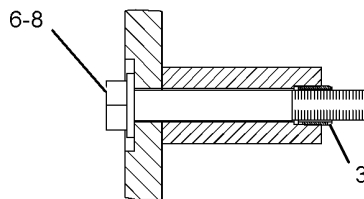
M-METRIC PART
Y-SEPARATE ILLUSTRATION



RIGHT SIDE VIEW



FRONT VIEW



SECTION A-A

GRAPHIC #1

<END>

g01135542

BASIC ENGINE

183-3649 COVER GP-CYLINDER BLOCK

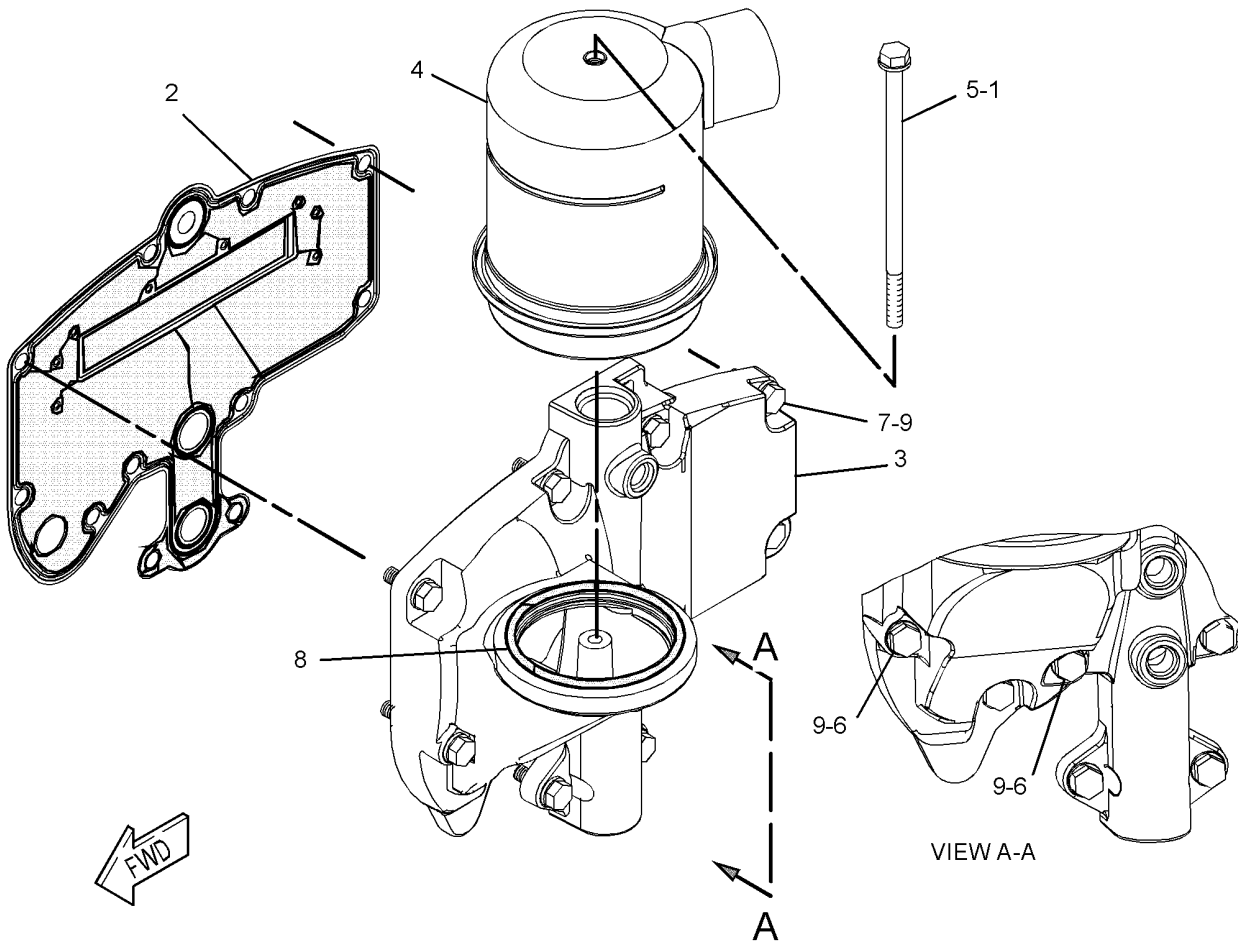
AN ATTACHMENT

SMCS-1201

i02536444

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	5N-4185	1	WASHER-SEAL						
	2	1	213-2410	1	GASKET						
	3	1	213-2411	1	COVER (CYLINDER BLOCK)						
	4	1	240-0041	1	BREATHER AS (CRANKCASE)						
M	5	1	3E-8005	1	BOLT (M8X1.25X160-MM)						
M	6	1	6V-3918	2	BOLT (M8X1.25X50-MM)						
M	7	1	6V-3940	9	BOLT (M8X1.25X25-MM)						
	8	1	9F-4446	1	SEAL-O-RING						
	9	1	9M-1974	11	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

g01270659

BASIC ENGINE

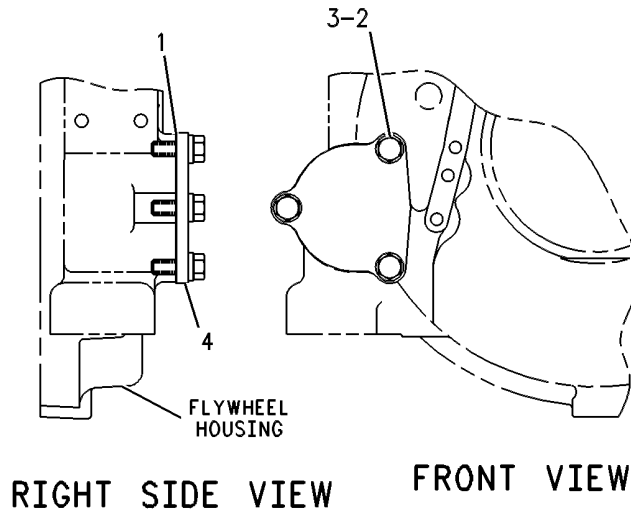
127-5728 COVER GP-FLYWHEEL HOUSING

LEFT STARTER BORE
AN ATTACHMENT

SMCS-1157

i00830240

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9Y-6089	1	GASKET						
	2	1	0S-1589	3	BOLT (5/8-11X1.75IN)						
	3	1	4D-3704	3	WASHER-HARD (5MM THK)						
	4	1	4N-1114	1	COVER						



GRAPHIC #1

<END>

g00262336

BASIC ENGINE

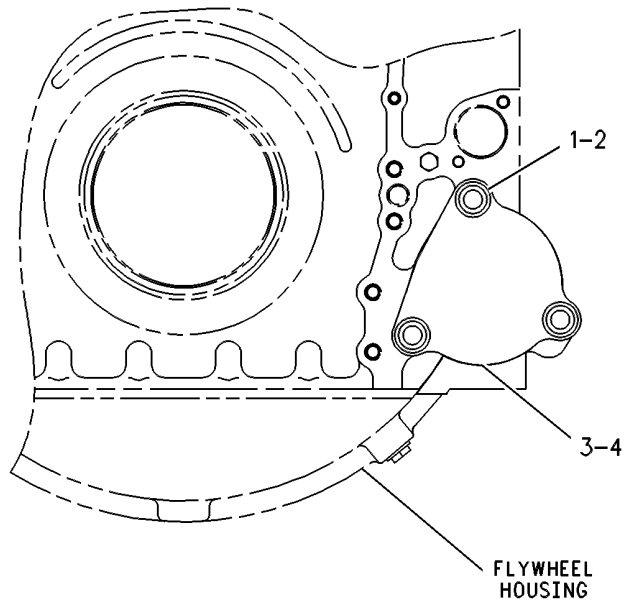
133-1209 COVER GP-FLYWHEEL HOUSING

AN ATTACHMENT

SMCS-1157

i02297824

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 (5/8-11X1.75-IN)						
	2	1	4D-3704	3	WASHER-HARD (17X30X5-MM THK)						
	3	1	4N-1114	1	COVER						
	4	1	4H-7869	1	GASKET						



FRONT VIEW

GRAPHIC #1

<END>

g00260698

BASIC ENGINE

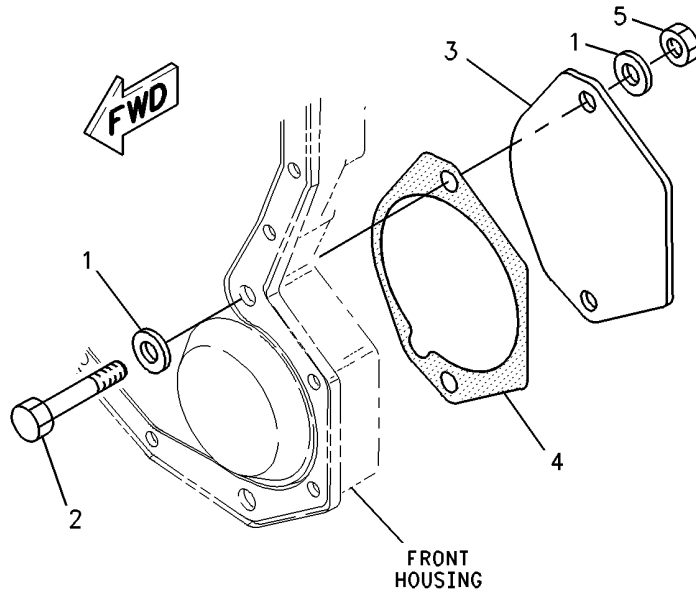
118-1727 COVER GP-FRONT HOUSING REQUIRED ON ENGINES WITH NO FACTORY INSTALLED AIR COMPRESSOR AN ATTACHMENT

SMCS-1151, 1166

i02445680

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-HARD (13.5X25.5X3-MM THK)						
M	2	1	6V-5696	2	BOLT (M12X1.75X80-MM)						
	3	1	4W-2026	1	COVER						
	4	1	135-9819	1	SEAL						
M	5	1	6V-8149	2	NUT (M12X1.75-THD)						

M-METRIC PART



GRAPHIC #1

<END>

g00897312

BASIC ENGINE

214-3562 COVER GP-FRONT HOUSING

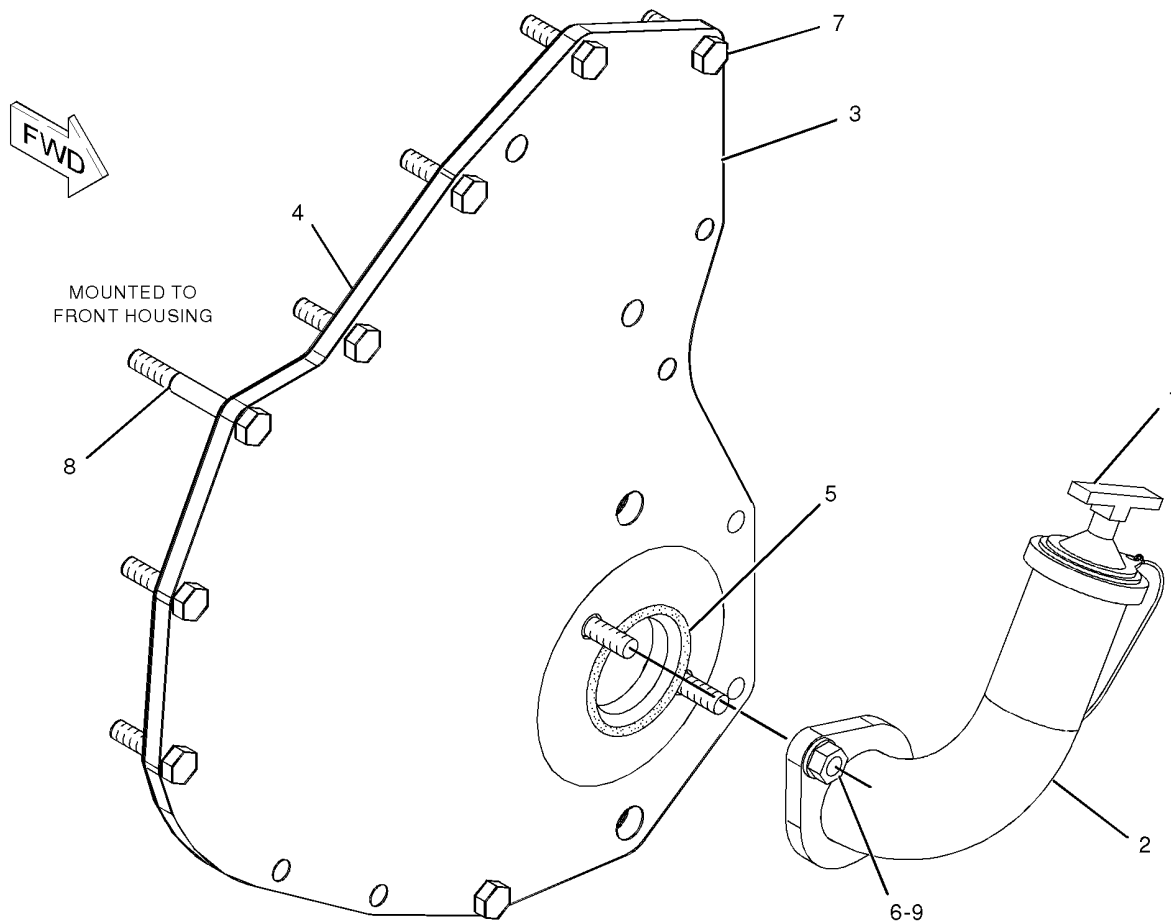
AN ATTACHMENT

SMCS-1151, 1166

i02603446

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	241-5645	1	CAP AS-FILLER (ENGINE OIL)						
	2	1	241-2942	1	TUBE AS-OIL (ENGINE)						
	3	1	166-1776	1	COVER AS-FRONT						
		1	126-1757	2	WASHER (10.85X19.3X1.27-MM THK)						
		1	136-0822	2	STUD						
	4	1	166-1781	1	GASKET						
	5	1	061-9455	1	SEAL-O-RING						
M	6	1	5C-7261	2	NUT (M8X1.25-THD)						
M	7	1	6V-2317	7	BOLT (M8X1.25X30-MM)						
M	8	1	8T-0100	1	BOLT (M8X1.25X60-MM)						
	9	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01059073

BASIC ENGINE

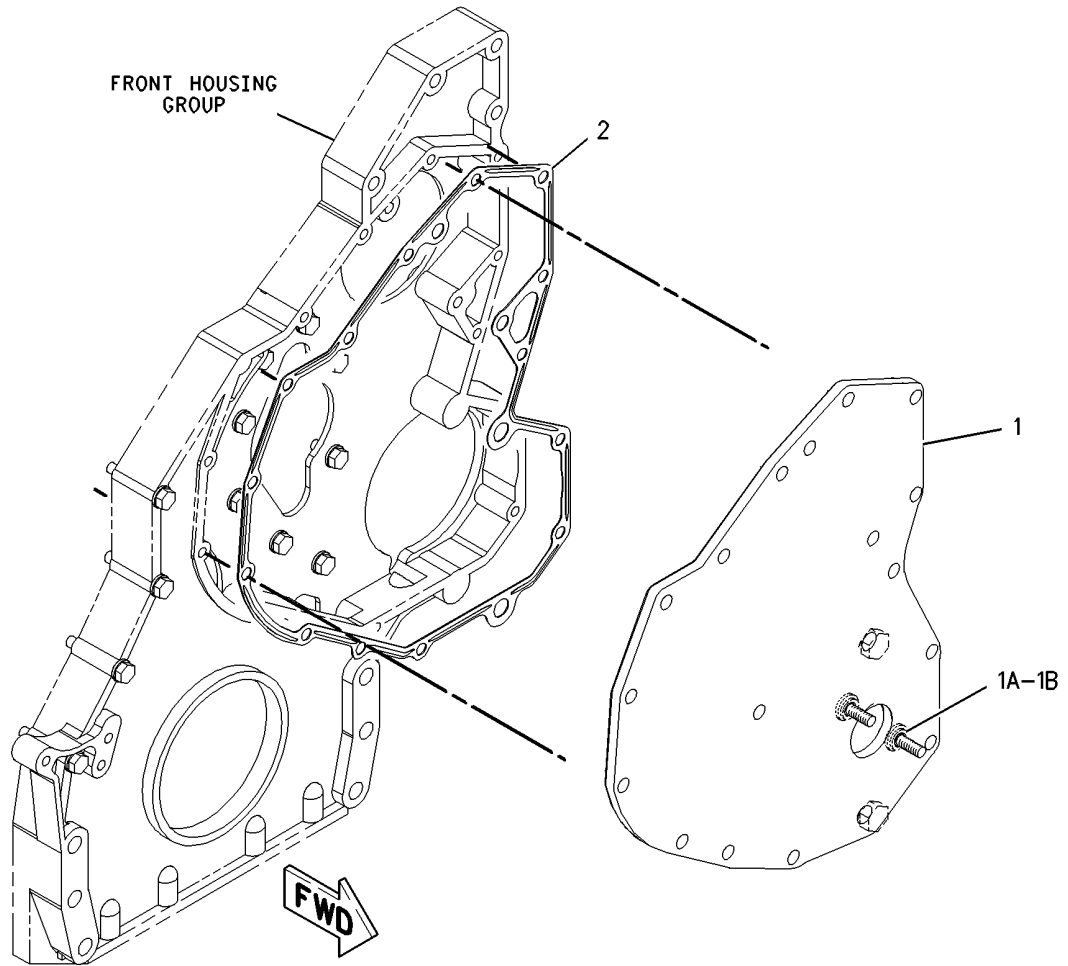
217-8669 COVER GP-FRONT HOUSING

PART OF 287-3653 ENGINE AR-CORE

SMCS-1151, 1166

i02178312

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	209-0760	1	COVER AS-FRONT						
	1A	1	126-1757	2	WASHER (10.85X19.3X1.27-MM THK)						
	1B	1	136-0822	2	STUD						
	2	1	209-0762	1	GASKET AS						



GRAPHIC #1

<END>

g00849279

BASIC ENGINE

247-5716 COVER GP-FRONT HOUSING

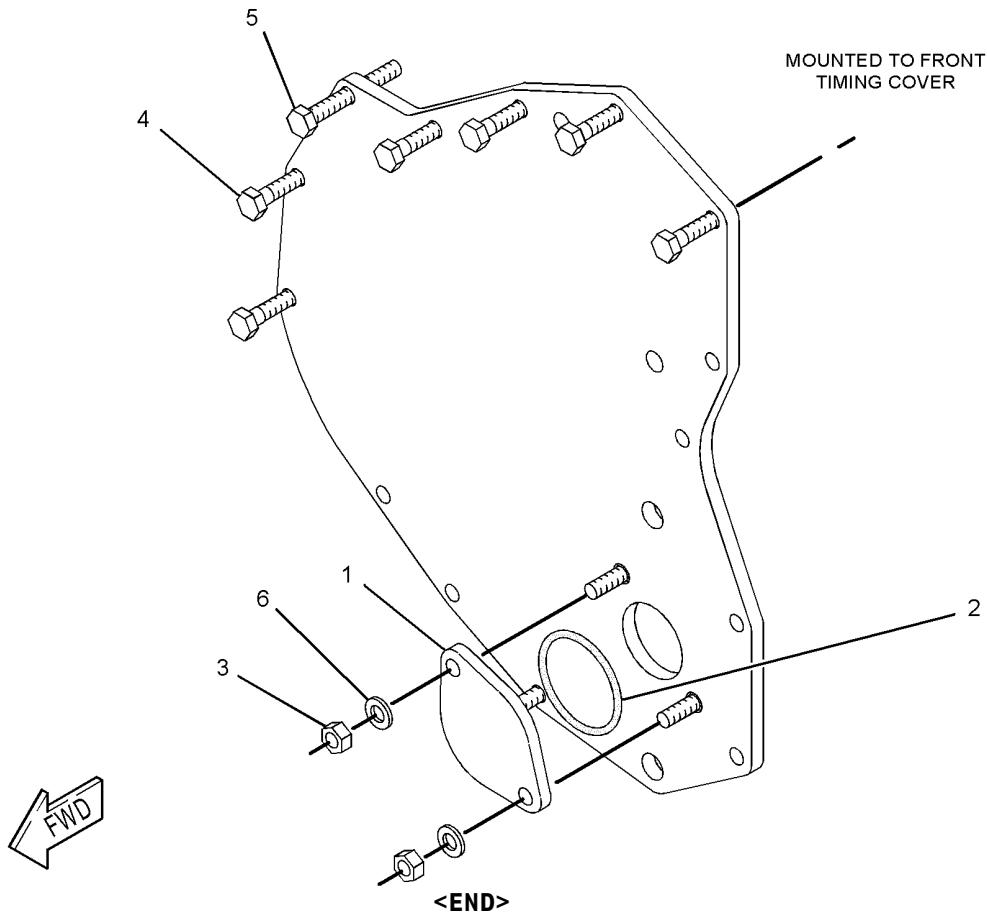
AN ATTACHMENT

SMCS-1151, 1166

i02292207

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						
M	3	1	5C-7261	2	NUT (M8X1.25-THD)						
M	4	1	6V-2317	7	BOLT (M8X1.25X30-MM)						
M	5	1	8T-0100	1	BOLT (M8X1.25X60-MM)						
	6	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

g01100949

BASIC ENGINE

267-6521 COVER GP-FRONT HOUSING

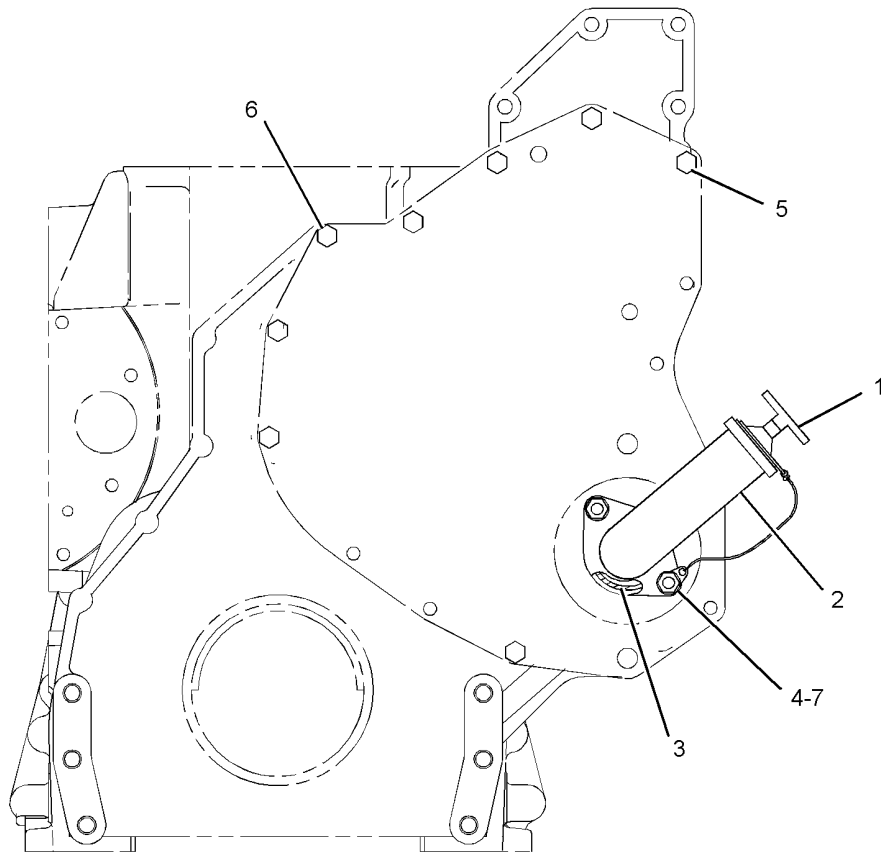
AN ATTACHMENT

SMCS-1151, 1166

i02596826

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	241-5645	1	CAP AS-FILLER (ENGINE OIL)						
	2	1	267-6522	1	TUBE AS						
	3	1	061-9455	1	SEAL-O-RING						
BM	4	1	5C-7261	2	NUT (M8X1.25-THD)						
M	5	1	6V-2317	7	BOLT (M8X1.25X30-MM)						
M	6	1	8T-0100	1	BOLT (M8X1.25X60-MM)						
B	7	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						

B-USE AS REQUIRED
M-METRIC PART



FRONT VIEW

GRAPHIC #1

<END>

g01140390

BASIC ENGINE

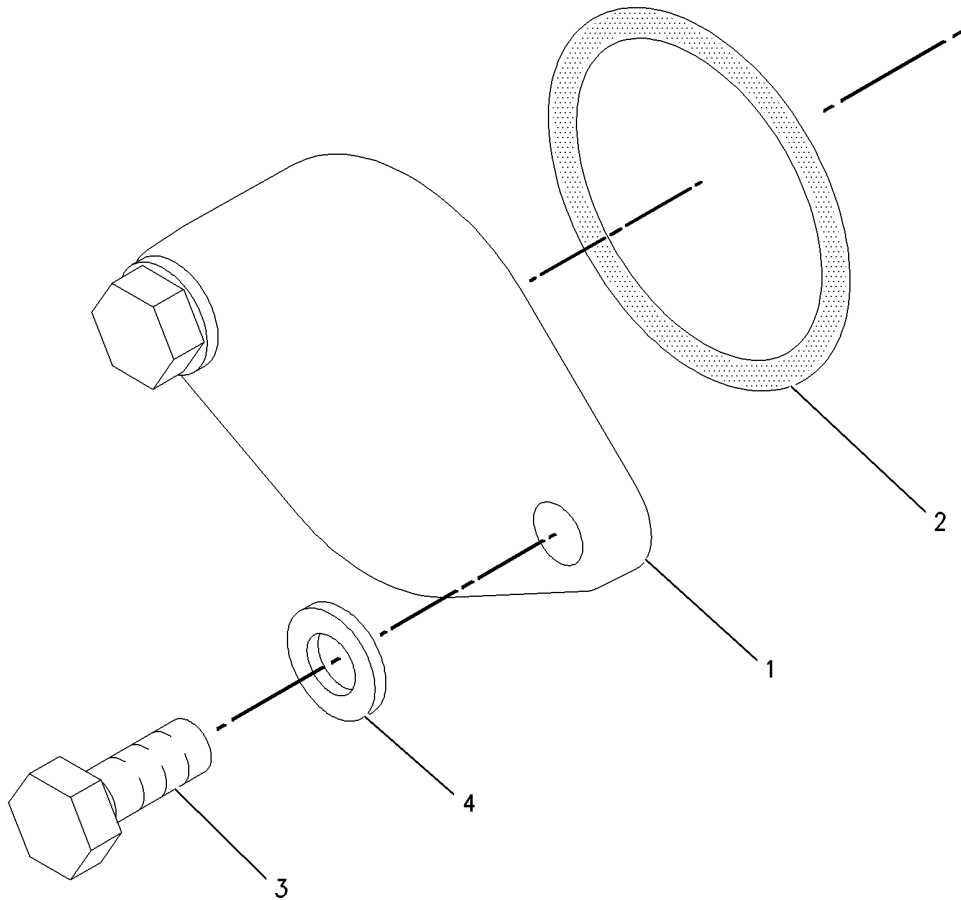
195-3034 COVER GP-OIL PAN-ENGINE AN ATTACHMENT

SMCS-1302

i02418416

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						
M	3	1	6V-5217	2	BOLT (M8X1.25X20-MM)						
	4	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00755075

BASIC ENGINE

9Y-9238 COVER GP-STORAGE-FLYWHEEL HOUSING AN ATTACHMENT

SMCS-0355, 0661, 1157

i01033870

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	7N-7827	1	COVER-FLYWHEEL HOUSING						
	4P-2543	4	FASTENER						
<END>									

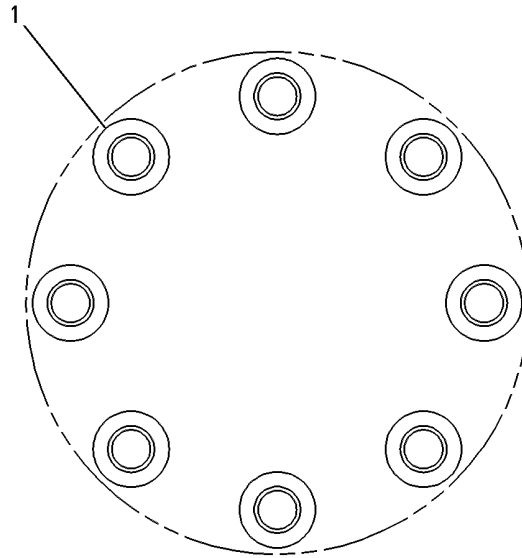
BASIC ENGINE

117-0178 COVER GP-STORAGE-REAR CRANKSHAFT
PROVIDES PLUGS TO SEAL REAR CRANKSHAFT FLANGE BOLT HOLES ON ENGINES BUILT
WITHOUT A FLYWHEEL
AN ATTACHMENT

SMCS-0355, 0661, 1157

i02489778

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-0995	8	PLUG-SEAL						



REAR VIEW

GRAPHIC #1

<END>

g00251313

BASIC ENGINE

235-8174 COVER GP-VALVE MECHANISM

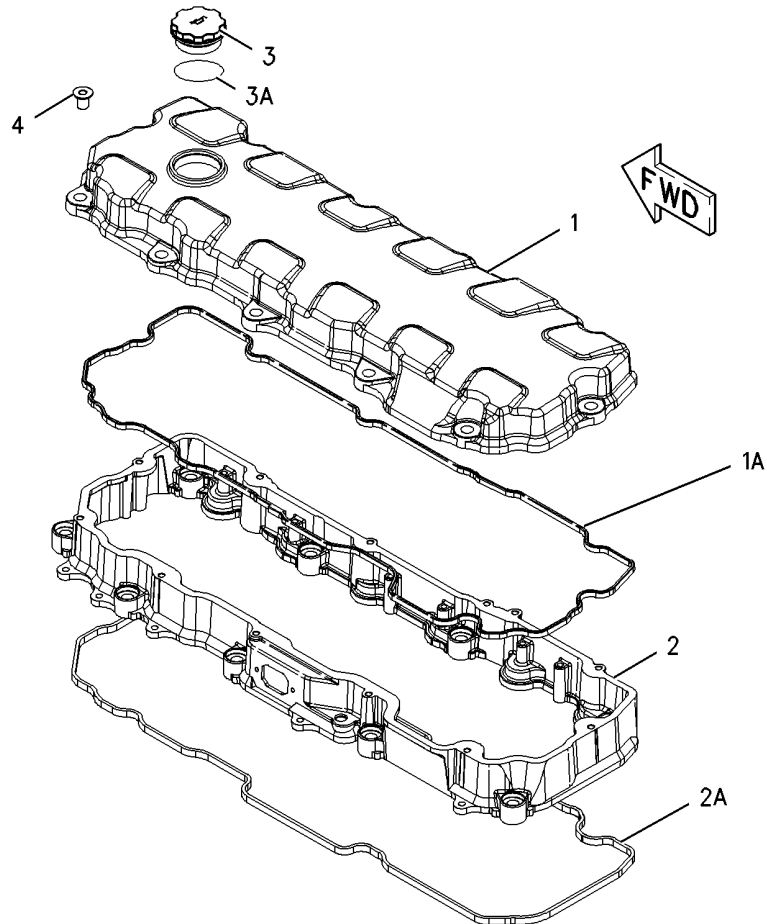
S/N: MBD1-659
AN ATTACHMENT

SMCS-1107

i02596827

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	213-5206	1	COVER GP-VALVE MECHANISM						
L	1A	1	217-5701		SEAL (23-DM) (VALVE MECHANISM COVER)						
	2	1	218-0397	1	COVER AS-BASE						
L	2A	1	217-5701		SEAL (23-DM) (VALVE MECHANISM BASE)						
	3	1	227-4531	1	CAP AS-FILLER (ENGINE OIL)						
	3A	1	7F-8268	1	SEAL-O-RING						
	4	1	246-5083	11	SLEEVE-SPACER						

L-ORDER BY DECIMETER



GRAPHIC #1

<END>

g01001002

BASIC ENGINE

235-8174 COVER GP-VALVE MECHANISM

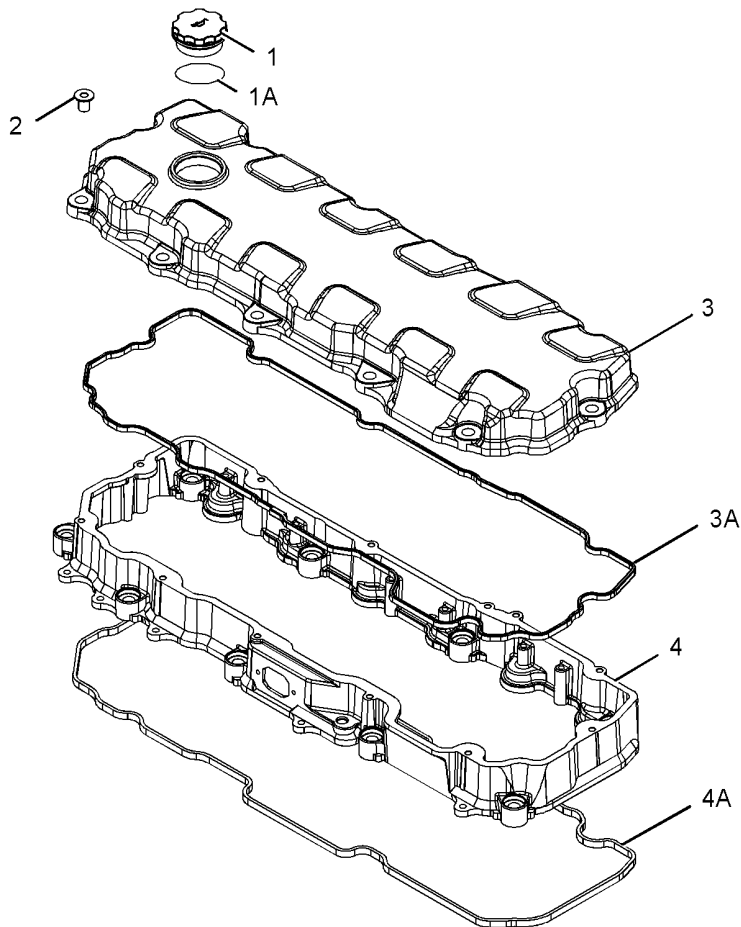
S/N: MBD660-UP
AN ATTACHMENT

SMCS-1107

i02596828

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	227-4531	1	CAP AS-FILLER (ENGINE OIL)							
	1A	1	7F-8268	1	SEAL-O-RING							
	2	1	246-5083	11	SLEEVE-SPACER							
C	3	1	263-7821	1	COVER GP-VALVE MECHANISM							
L	3A	1	217-5701		SEAL (23-DM) (VALVE MECHANISM COVER)							
C	4	1	271-2418	1	BASE GP-VALVE COVER							
CL	4A	1	268-3490	1	SEAL AS (VALVE MECHANISM BASE)							
	BF		4C-9612		SEALANT-SILICONE							

B-USE AS REQUIRED
C-CHANGE FROM PREVIOUS TYPE
F-NOT SHOWN
L-ORDER BY DECIMETER



GRAPHIC #1

<END>

g01277347

BASIC ENGINE

164-6148 CRANKSHAFT GP

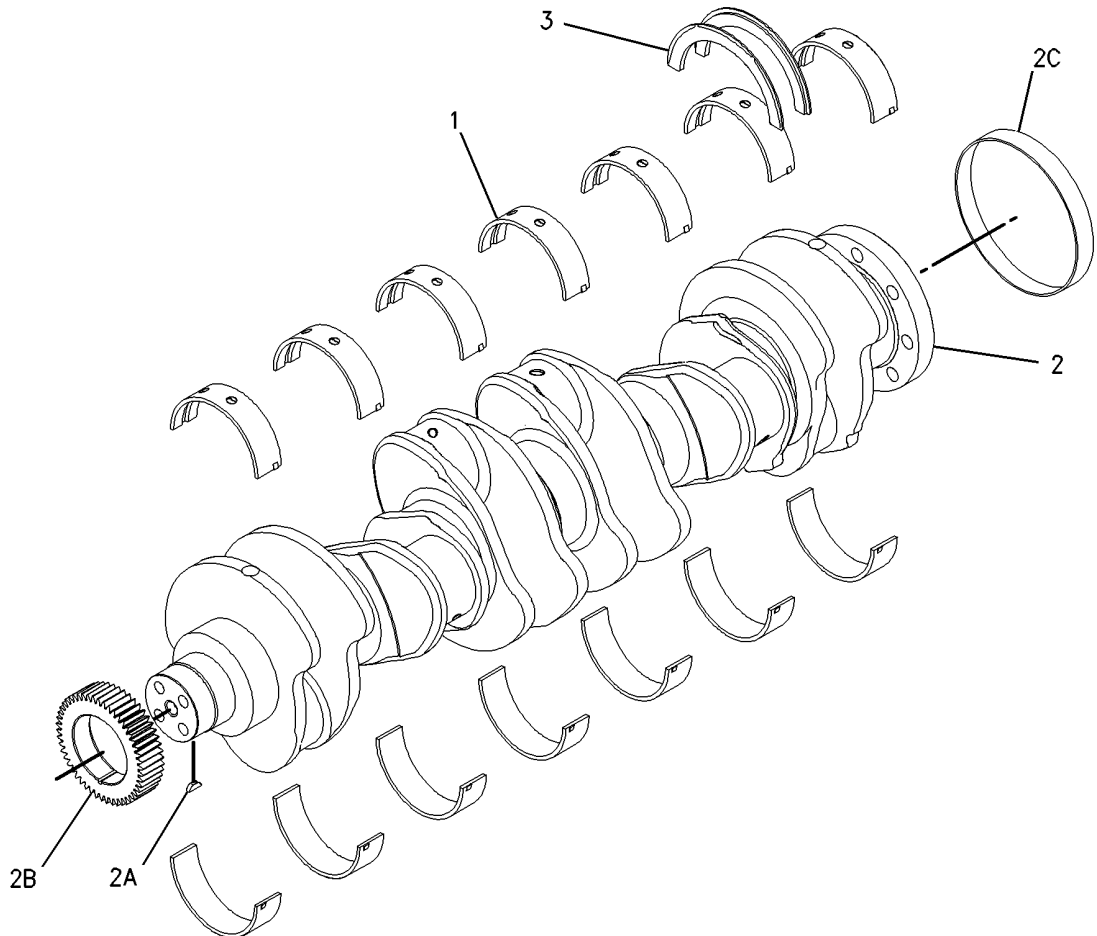
PART OF 287-3653 ENGINE AR-CORE

SMCS-1202

i02569820

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	151-2939	7	BEARING-MAIN (STANDARD)							
R	2	1	261-1544	1	CRANKSHAFT AS							
	2A	1	1B-8705	1	KEY-WOODRUFF							
	2B	1	2W-8147	1	GEAR (50-TEETH)							
	2C	1	9Y-0810	1	SLEEVE-WEAR							
	3	1	246-3150	2	PLATE-THRUST							

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00789955

BASIC ENGINE

221-3248 CYLINDER BLOCK AS

PART OF 220-1952 CYLINDER BLOCK GP

SMCS-1201

i02247506

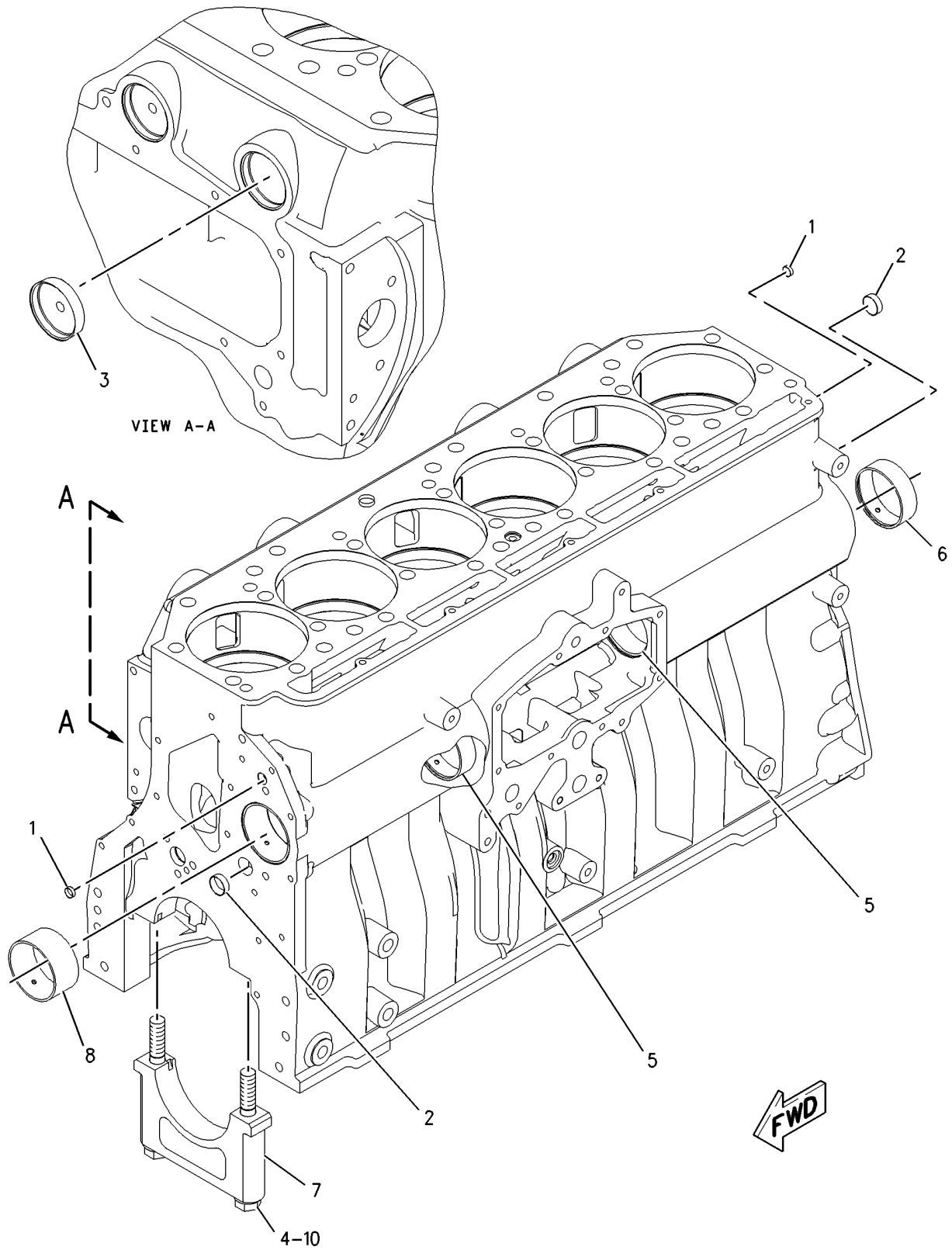
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0L-1026	2	PLUG-CUP						
	2	1	3B-0623	2	PLUG-CUP						
	3	1	4F-5695	4	PLUG-CUP						
M	4	1	175-0454	14	BOLT (M16X2X160-MM)						
	5	1	203-5805	2	BEARING-SLEEVE						
	6	1	203-6090	1	BEARING-SLEEVE						
	7	1	212-7002	7	CAP-BEARING						
	8	1	216-5586	1	BEARING-SLEEVE (CAMSHAFT)						
	10	1	9X-8268	14	WASHER (17.5X30X3.5-MM THK)						

M-METRIC PART

BASIC ENGINE

221-3248 CYLINDER BLOCK AS (contd.)

i02247506



GRAPHIC #1

<END>

g00920253

BASIC ENGINE

161-3406 CYLINDER BLOCK GP

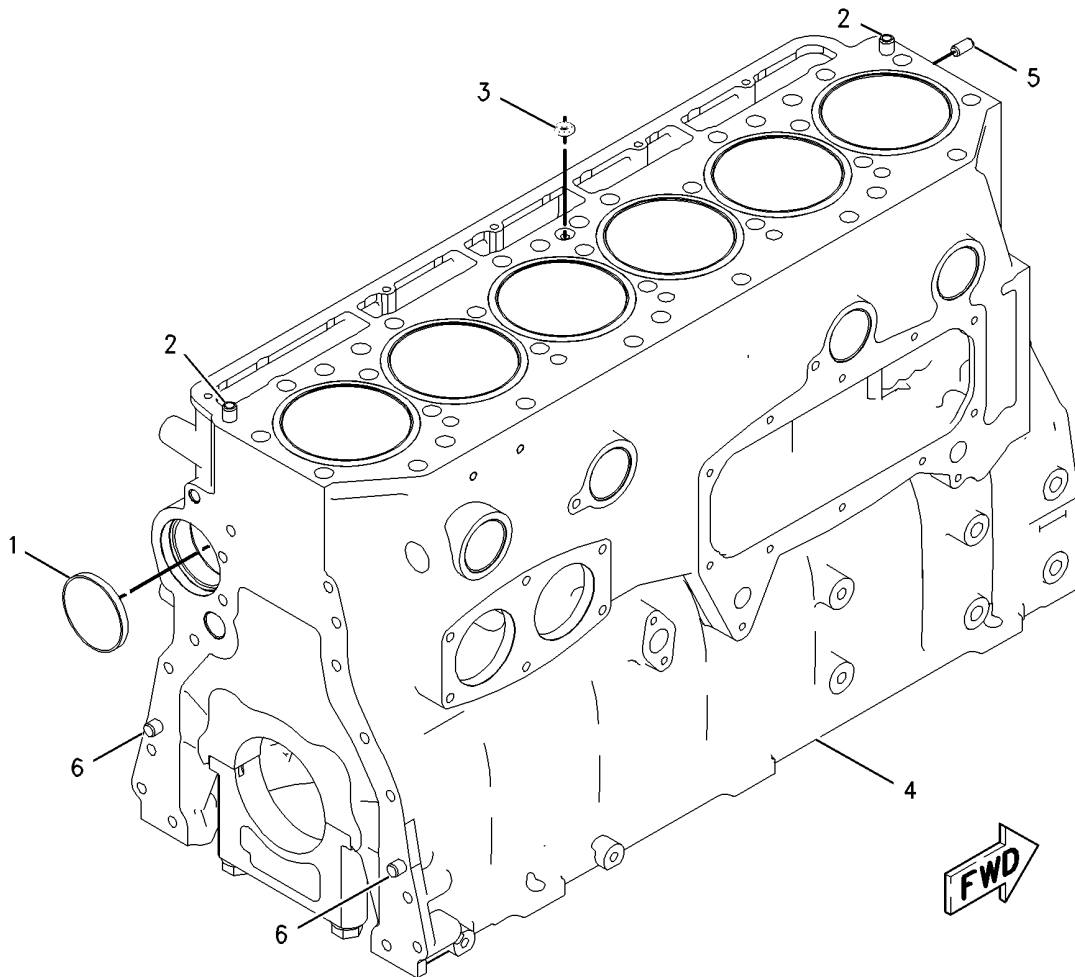
PART OF 287-3653 ENGINE AR-CORE

SMCS-1201

i01988027

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	0S-0519	1	PLUG-CUP						
	2	1	1W-8407	2	SLEEVE						
	3	1	4G-4972	1	SEAL-O-RING						
CY	4	1	220-1952	1	CYLINDER BLOCK GP						43
	5	1	6V-3538	2	DOWEL						
	6	1	7N-5683	2	DOWEL						

C-CHANGE FROM PREVIOUS TYPE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00838255

BASIC ENGINE

220-1952 CYLINDER BLOCK GP

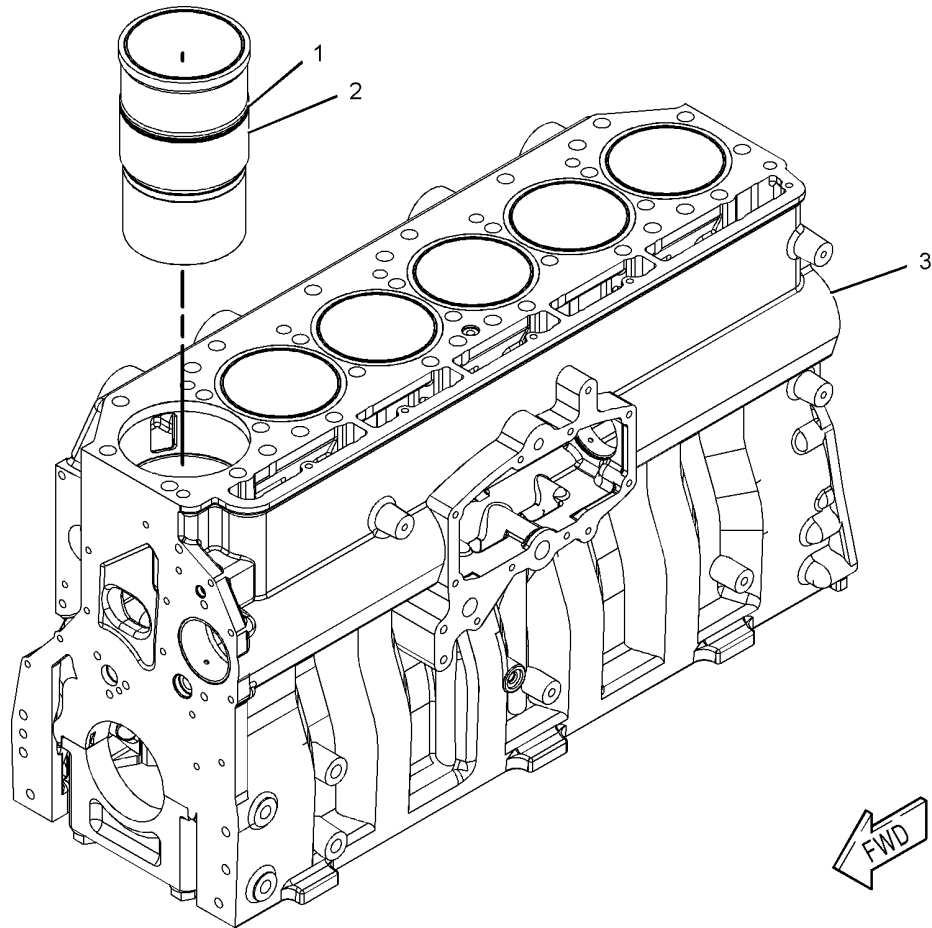
PART OF 161-3406 CYLINDER BLOCK GP

SMCS-1201

i01988156

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	167-0024	6	SEAL-LINER						
	2	1	190-3562	6	LINER-CYLINDER						
Y	3	1	221-3248	1	CYLINDER BLOCK AS						40

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01032547

BASIC ENGINE

252-8438 CYLINDER HEAD AS

PART OF 252-8439 CYLINDER HEAD GP

SMCS-1100, 1101

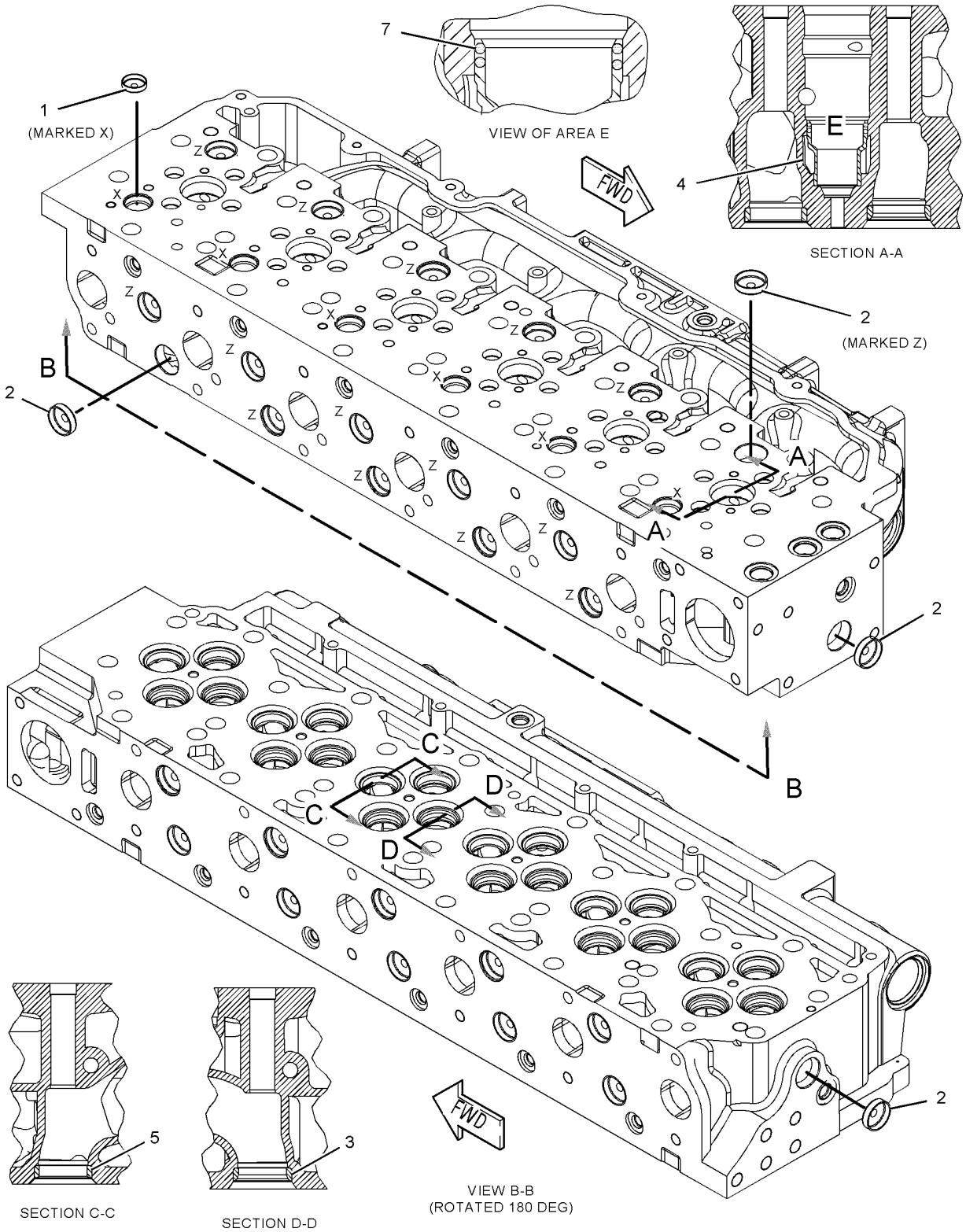
i02179365

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-7604	6	PLUG-CUP						
	2	1	8M-5860	18	PLUG-CUP						
	3	1	212-8917	12	INSERT-VALVE SEAT (EXHAUST)						
	4	1	227-1200	6	SLEEVE-INJECTOR						
	5	1	241-8388	12	INSERT-VALVE SEAT (INLET)						
	7	1	8C-0563	12	SEAL-O-RING						

BASIC ENGINE

252-8438 CYLINDER HEAD AS (contd.)

i02179365



GRAPHIC #1

<END>

g01089169

BASIC ENGINE

242-0672 CYLINDER HEAD GP

PART OF 287-3653 ENGINE AR-CORE

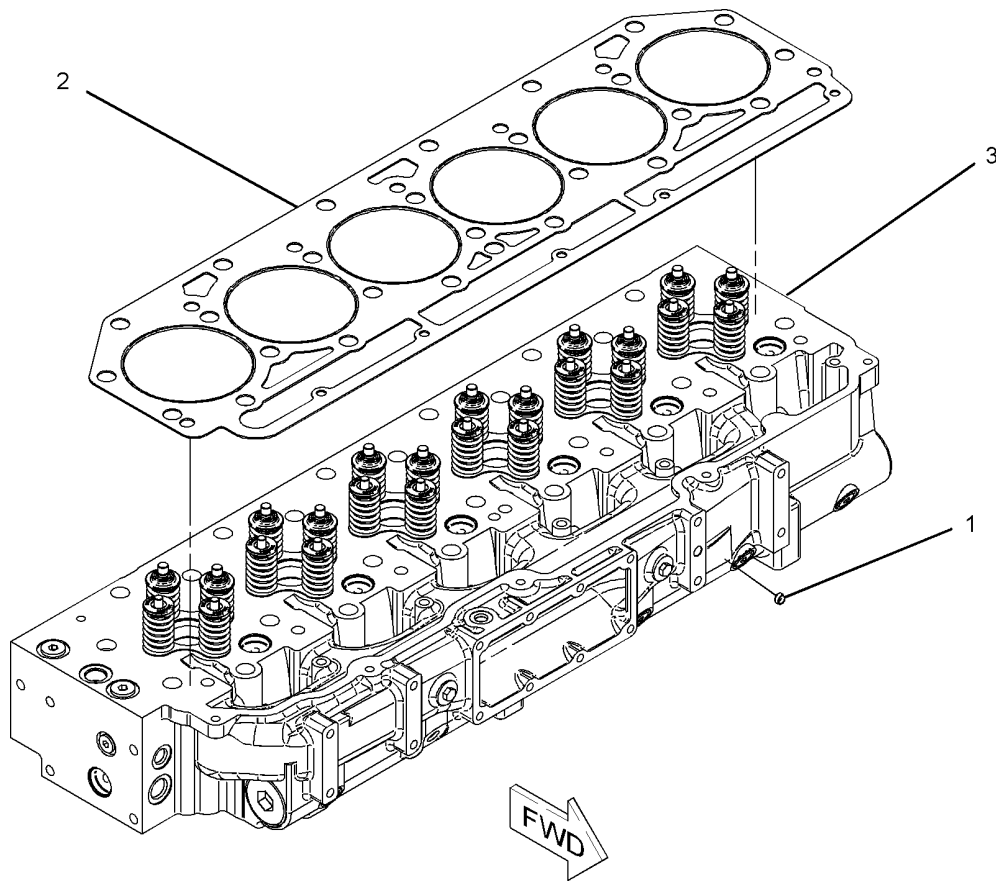
FOR USE WITH ENGINES THAT DO NOT REQUIRE SMART WASTE GATE

SMCS-1100

i02255318

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2A-3746	1	PLUG-CUP						
	2	1	187-1315	1	GASKET AS						
Y	3	1	252-8439	1	CYLINDER HEAD GP						47

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01065328

BASIC ENGINE

252-8439 CYLINDER HEAD GP

PART OF 242-0672 CYLINDER HEAD GP

SMCS-1100

i02490672

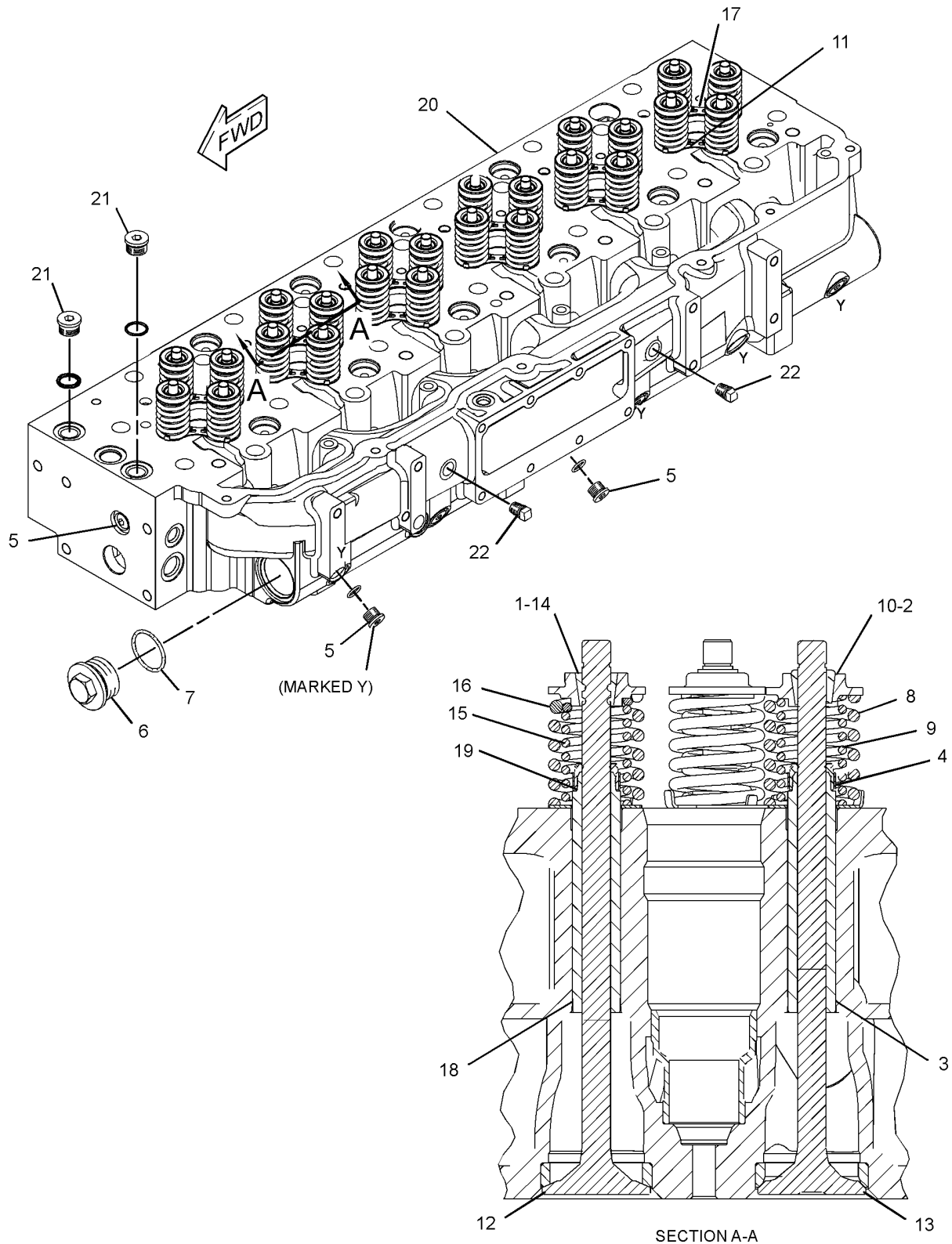
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1W-2715	24	LOCK-RETAINER						
	2	1	2A-4429	24	LOCK-RETAINER						
	3	1	260-4856	12	GUIDE-VALVE						
	4	1	163-2478	12	SEAL-VALVE STEM						
	5	1	183-3407	6	PLUG AS						
					(EACH INCLUDES)						
		1	9S-8004	1	PLUG						
		1	153-4906	1	SEAL-O-RING						
	6	1	271-7442	2	PLUG						
	7	1	183-2317	2	SEAL-O-RING						
	8	1	190-6115	12	SPRING-VALVE (INNER)						
	9	1	190-6117	12	SPRING-VALVE (OUTER)						
	10	1	211-2134	12	RETAINER						
	11	1	217-0609	6	SEAT-VALVE SPRING						
	12	1	241-8382	12	VALVE-INLET						
	13	1	241-8383	12	VALVE-EXHAUST						
	14	1	241-8384	12	RETAINER						
	15	1	241-8385	12	SPRING-VALVE (OUTER)						
	16	1	241-8386	12	SPRING-VALVE (INNER)						
	17	1	241-8387	6	SEAT						
	18	1	259-5829	12	GUIDE-VALVE						
	19	1	241-8390	12	SEAL-VALVE STEM						
Y	20	1	252-8438	1	CYLINDER HEAD AS						44
	21	1	148-8395	2	PLUG AS						
					(EACH INCLUDES)						
		1	3K-0360	1	SEAL-O-RING						
		1	9S-8005	1	PLUG-O RING						
	22	1	8T-6764	2	PLUG-PIPE						

Y-SEPARATE ILLUSTRATION

BASIC ENGINE

252-8439 CYLINDER HEAD GP (contd.)

i02490672



GRAPHIC #1

<END>

g01191136

BASIC ENGINE

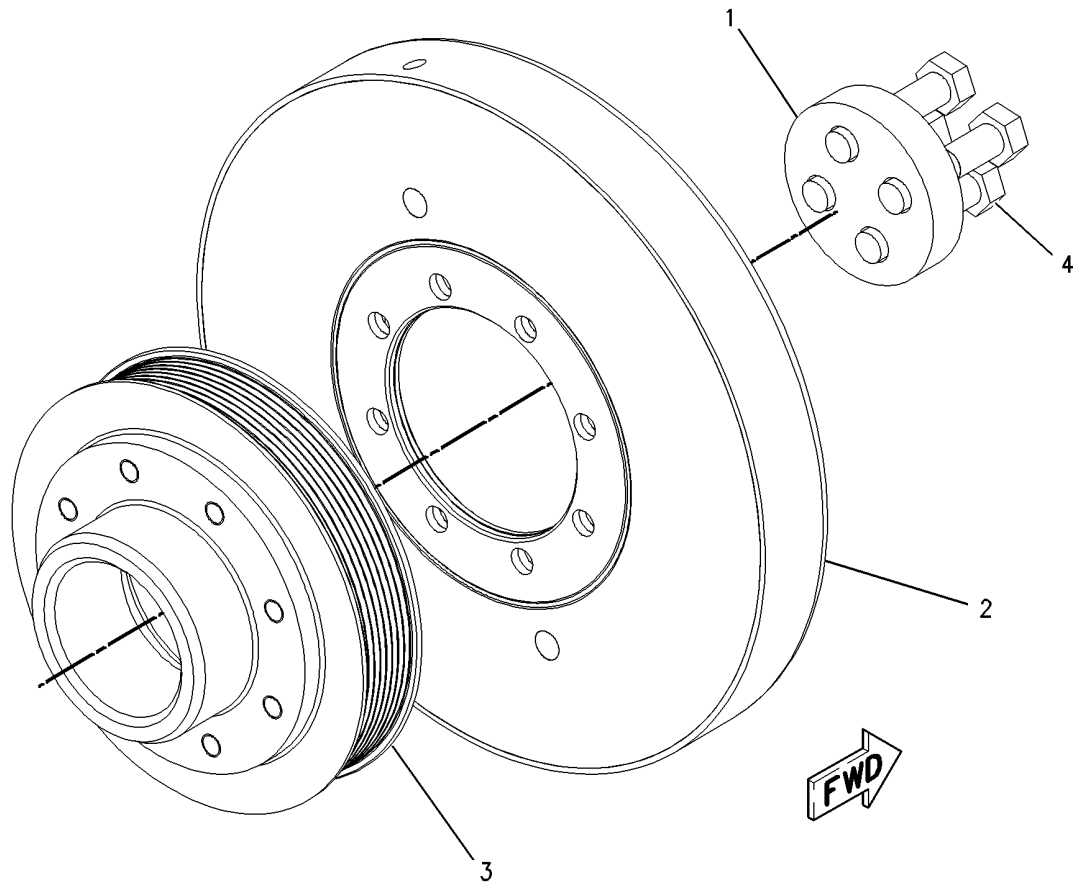
165-4557 DAMPER & PULLEY GP PROVIDES VISCOUS DAMPER W/8 GROOVE POLY-RIB PULLEY AN ATTACHMENT

SMCS-1205

i01615703

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						
	2	1	167-8121	1	DAMPER AS						
	3	1	153-1036	1	PULLEY - CRANKSHAFT						
M	4	1	8T-3666	4	BOLT (M14X60-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00836511

BASIC ENGINE

169-3539 DAMPER & PULLEY GP

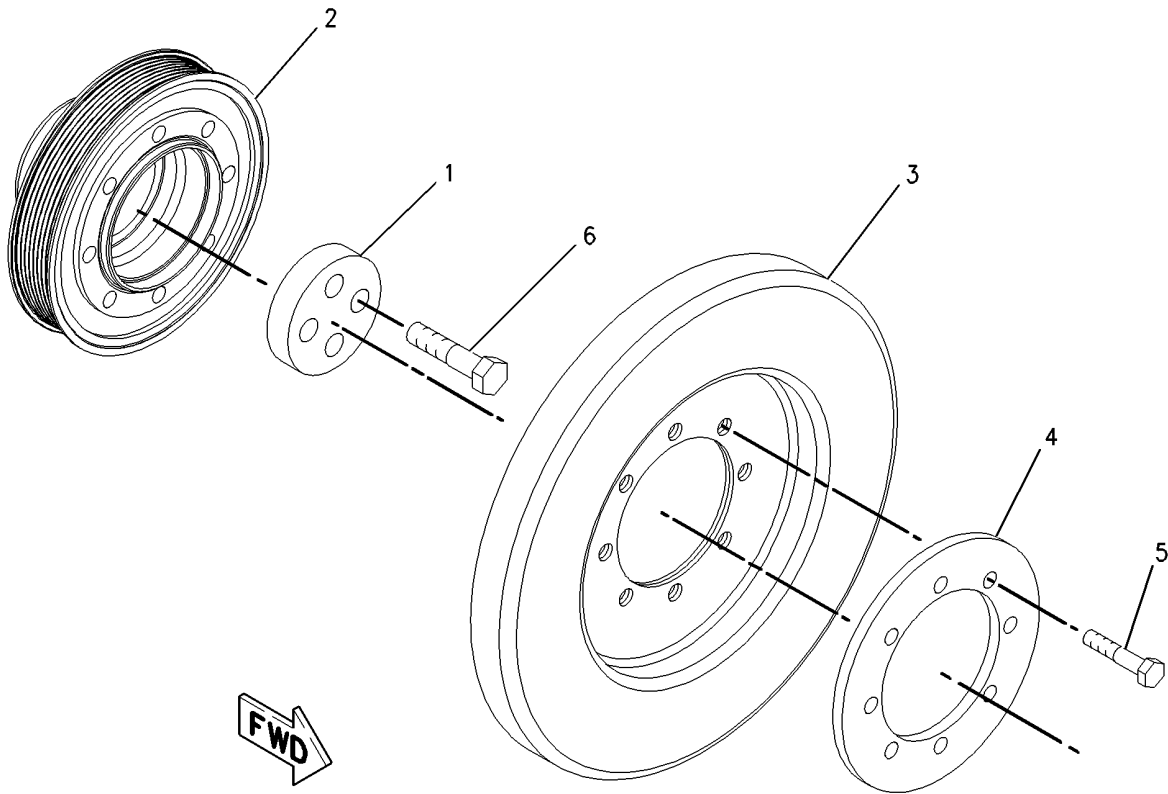
AN ATTACHMENT

SMCS-1205

i02534944

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						
	2	1	153-1036	1	PULLEY - CRANKSHAFT						
	3	1	208-9619	1	DAMPER AS						
	4	1	228-3621	1	SPACER						
M	5	1	6V-4249	8	BOLT (M10X1.5X50-MM)						
M	6	1	8T-3666	4	BOLT (M14X60-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00983707

BASIC ENGINE

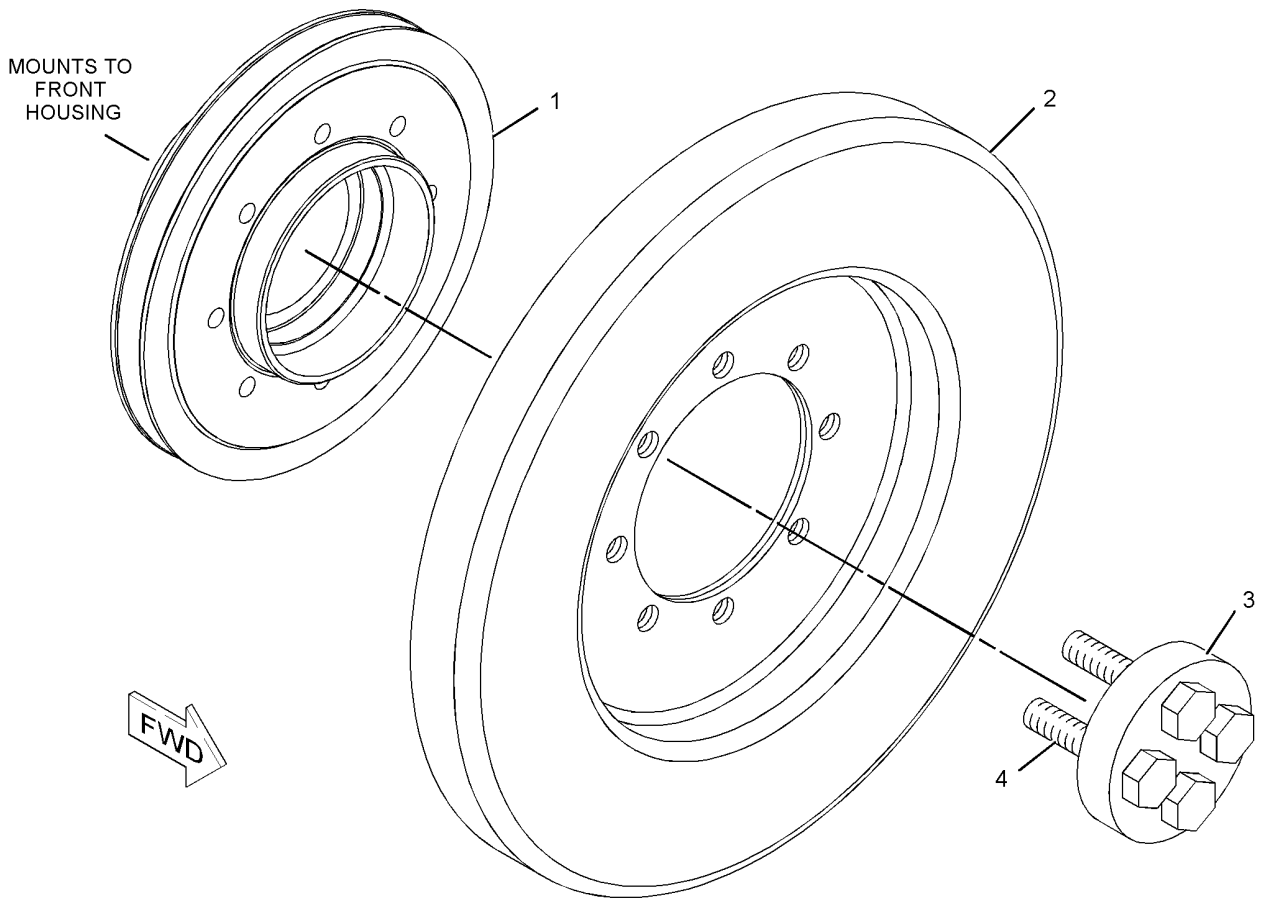
256-9751 DAMPER & PULLEY GP AN ATTACHMENT

SMCS-1205

i02292329

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	256-9752	1	PULLEY						
	2	1	208-9619	1	DAMPER AS						
	3	1	2W-7381	1	WASHER						
M	4	1	8T-3666	4	BOLT (M14X60-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01120134

BASIC ENGINE

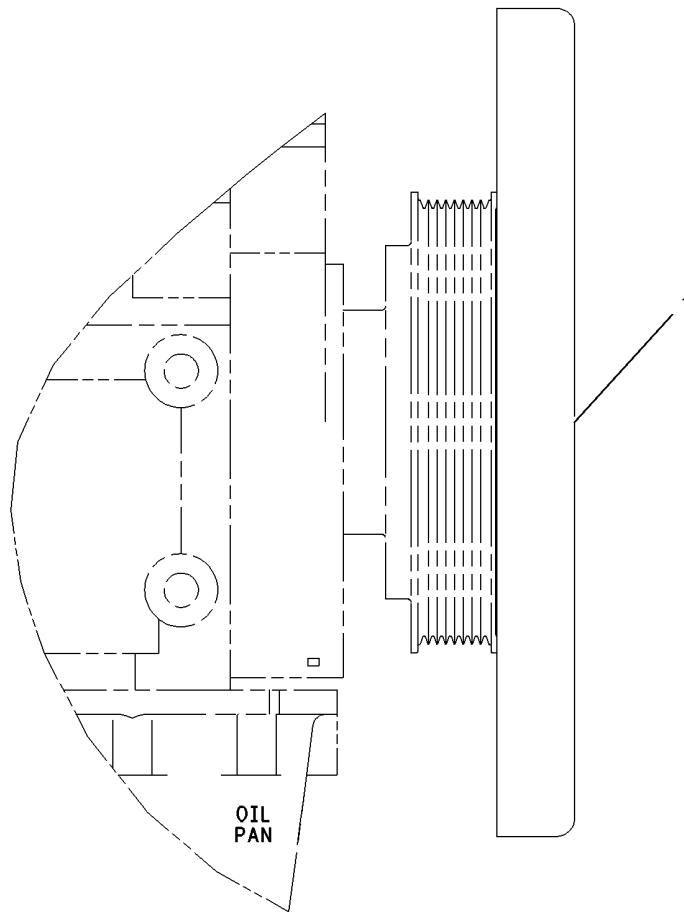
211-8041 DAMPER GP

AN ATTACHMENT

SMCS-1205

i02179690

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	208-9619	1	DAMPER AS						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00919128

BASIC ENGINE

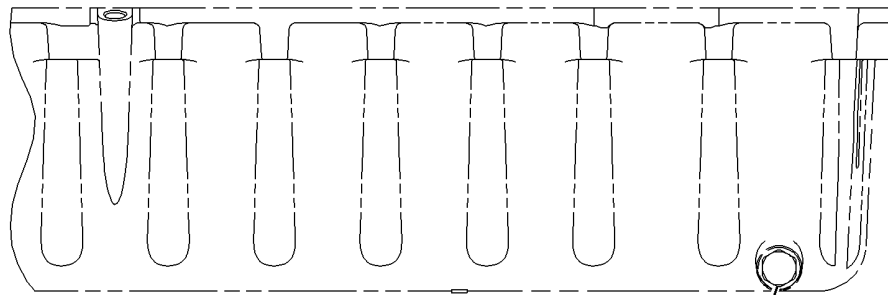
198-6475 DRAIN GP-ENGINE OIL

AN ATTACHMENT

SMCS-1302

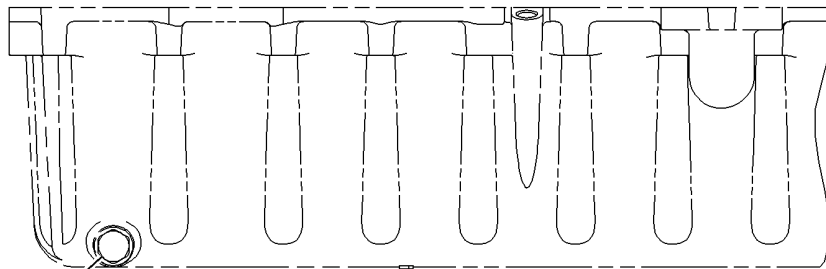
i02299738

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



LEFT SIDE VIEW

1-2



RIGHT SIDE VIEW

1-2

GRAPHIC #1

<END>

g00766543

BASIC ENGINE

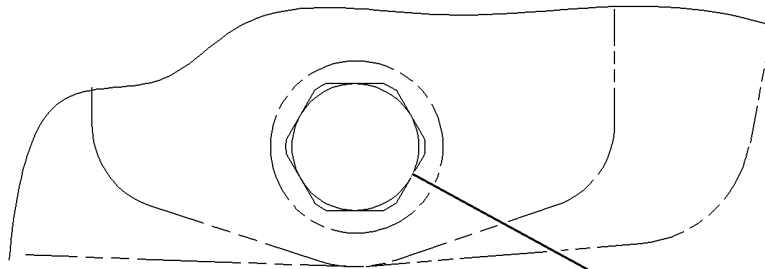
198-6477 DRAIN GP-ENGINE OIL

AN ATTACHMENT

SMCS-1302

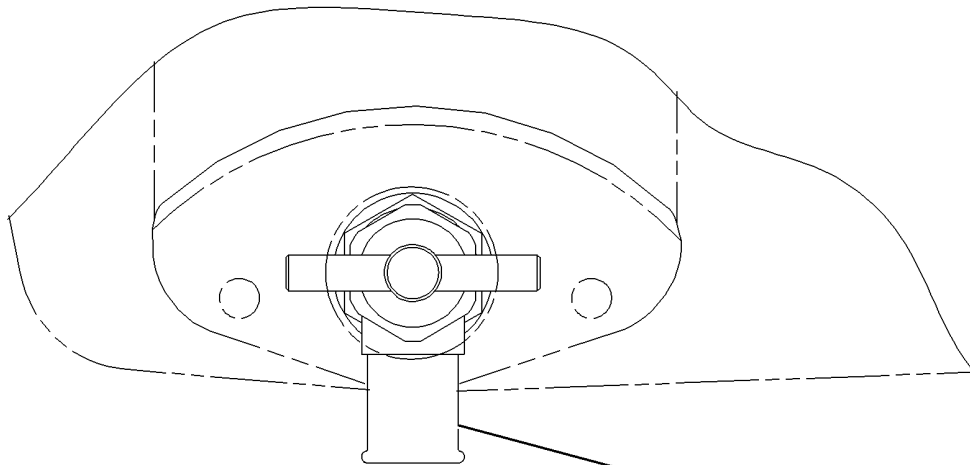
i02596829

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3K-0360	2	SEAL-O-RING						
	2	1	6V-7238	1	VALVE-SHUTOFF (ENGINE OIL PAN DRAIN)						
	3	1	118-3619	1	PLUG-MAGNETIC (ENGINE OIL PAN DRAIN)						



RIGHT SIDE VIEW

1-3



LEFT SIDE VIEW

1-2

GRAPHIC #1

<END>

g00774185

BASIC ENGINE

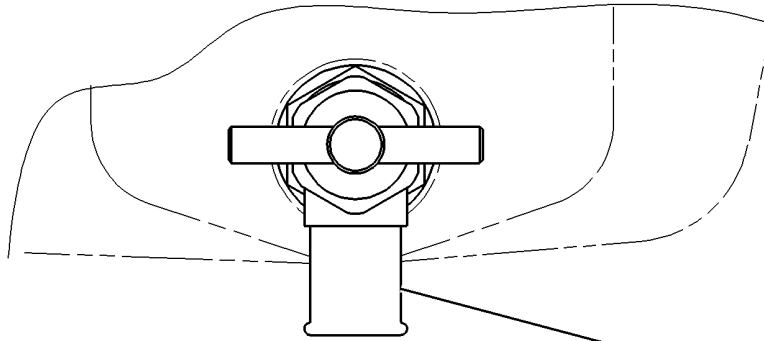
198-6478 DRAIN GP-ENGINE OIL

RH
AN ATTACHMENT

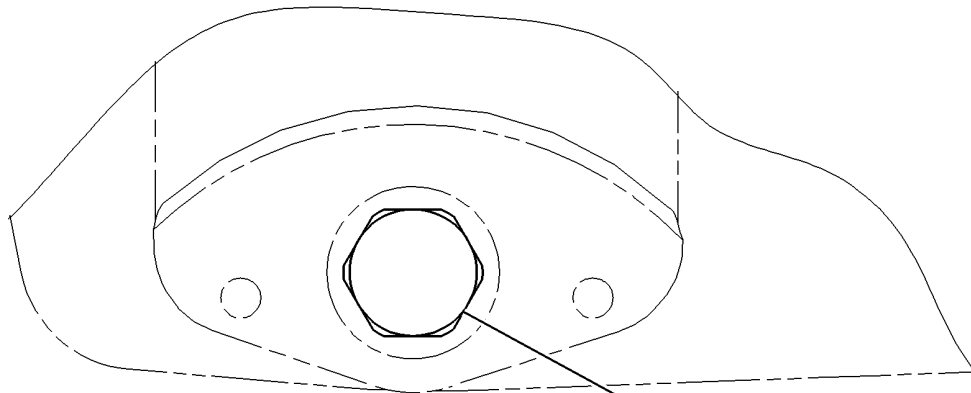
SMCS-1302

i02294439

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3K-0360	2	SEAL-O-RING						
	2	1	6V-7238	1	VALVE-SHUTOFF (ENGINE OIL PAN DRAIN)						
	3	1	118-3619	1	PLUG-MAGNETIC (ENGINE OIL PAN DRAIN)						



RIGHT SIDE VIEW



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00774225

BASIC ENGINE

7C-1682 DRIVE GP-ACCESSORY

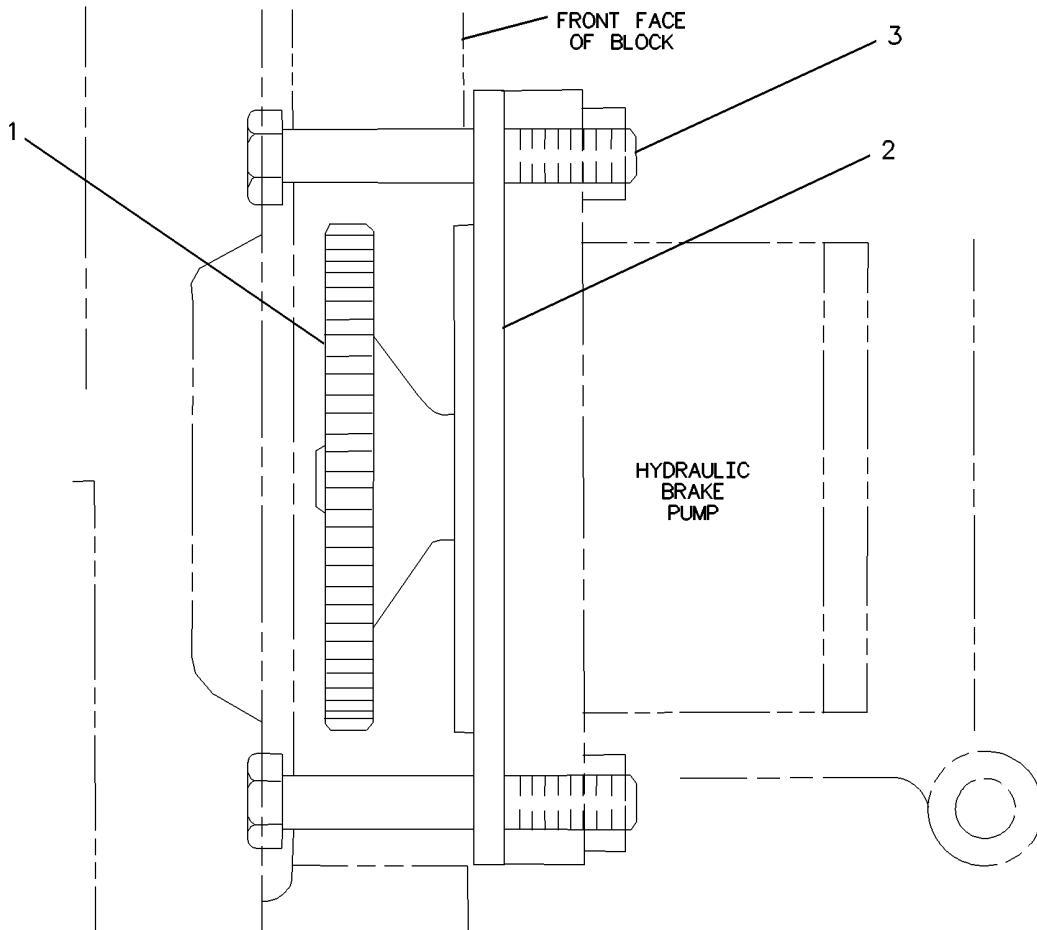
ROTATION IS COUNTER-CLOCKWISE VIEWED FROM THE DRIVE END OF PUMP
 FOR USE WITH HYDRAULIC PUMP WITH 1.5 TAPERED SHAFT. CANNOT BE USED WITH
 AIR COMPRESSOR
 AN ATTACHMENT

SMCS-1207

i00885789

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

<END>

g00203126

BASIC ENGINE

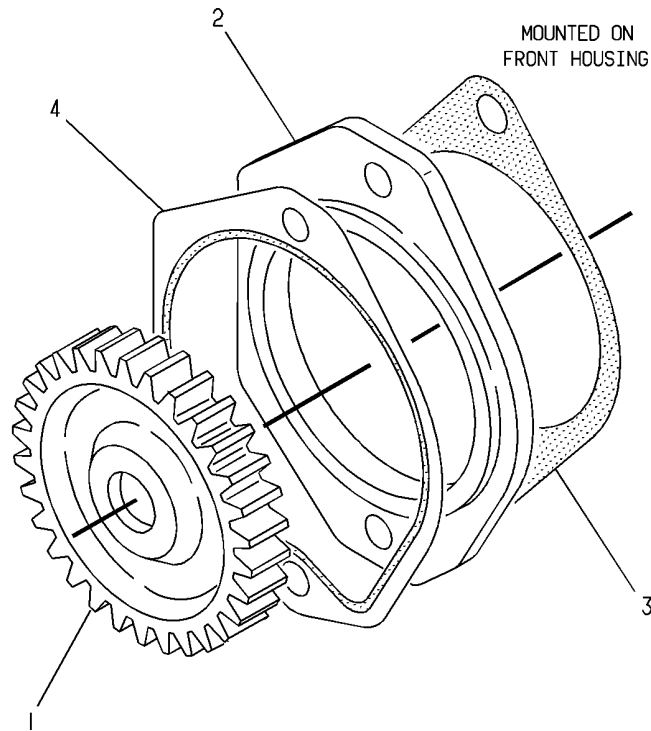
7E-1317 DRIVE GP-ACCESSORY

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

SMCS-1207

i00977630

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						



GRAPHIC #1

<END>

g00194565

BASIC ENGINE

7E-8945 DRIVE GP-ACCESSORY

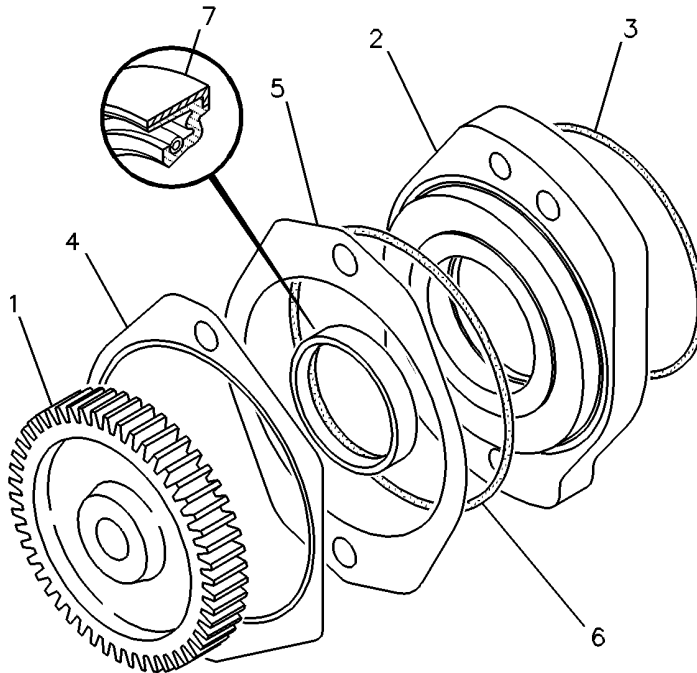
ROTATION IS COUNTER-CLOCKWISE VIEWED FROM DRIVE END OF PUMP
 FOR USE WITH SAE B-B HYDRAULIC PUMP WITH 1:8 TAPERED SHAFT. CANNOT BE USED
 WITH AIR COMPRESSOR
 AN ATTACHMENT

SMCS-1207

i00888291

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

B-USE AS REQUIRED



GRAPHIC #1

<END>

g00219799

BASIC ENGINE

9Y-0608 DRIVE GP-ACCESSORY

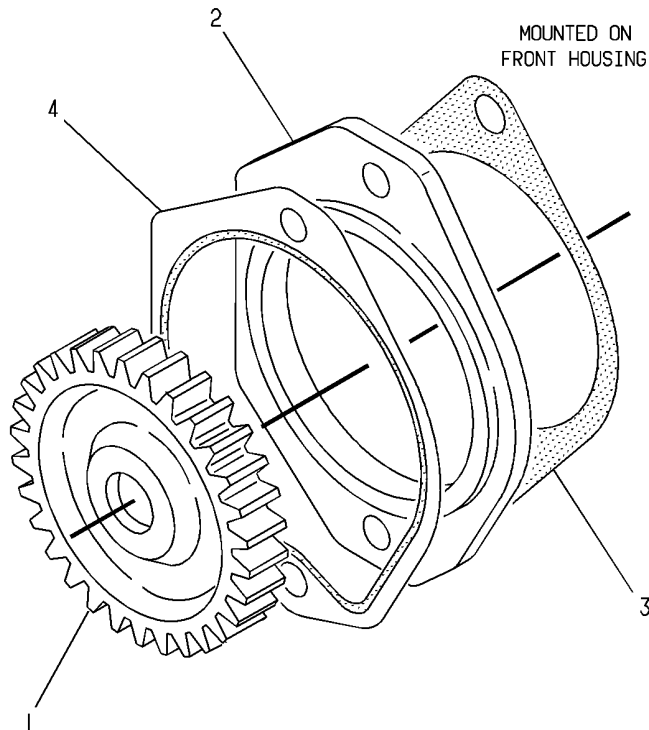
60 HP AT 2200 RPM & ABOVE. 55 MAX HP AT 2000 RPM.
 ROTATION IS COUNTER-CLOCKWISE VIEWED FROM DRIVE END OF PUMP
 FOR USE WITH SAE B HYDRAULIC PUMP WITH TAPERED SHAFT
 AN ATTACHMENT

SMCS-1207

i00888855

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						
C	4	1	135-9819	1	SEAL						

C-CHANGE FROM PREVIOUS TYPE



GRAPHIC #1

<END>

g00194565

BASIC ENGINE

9Y-3827 DRIVE GP-ACCESSORY

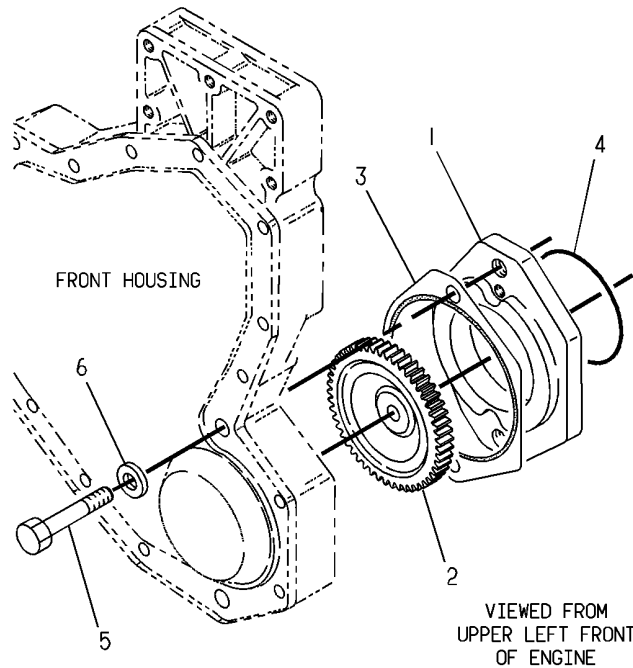
MAXIMUM INPUT 30 HP AT 2000 RPM & ABOVE.
 ROTATION IS COUNTER-CLOCKWISE WHEN VIEWED FROM DRIVE END OF PUMP
 FOR USE WITH SAE A HYDRAULIC PUMP WITH TAPERED SHAFT
 AN ATTACHMENT

SMCS-1207

i00889612

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						
	4	1	1P-8362	1	SEAL-O-RING						
M	5	1	6V-3823	2	BOLT (M12X1.75X60-MM)						
	6	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00195018

BASIC ENGINE

215-1819 DRIVE GP-ACCESSORY

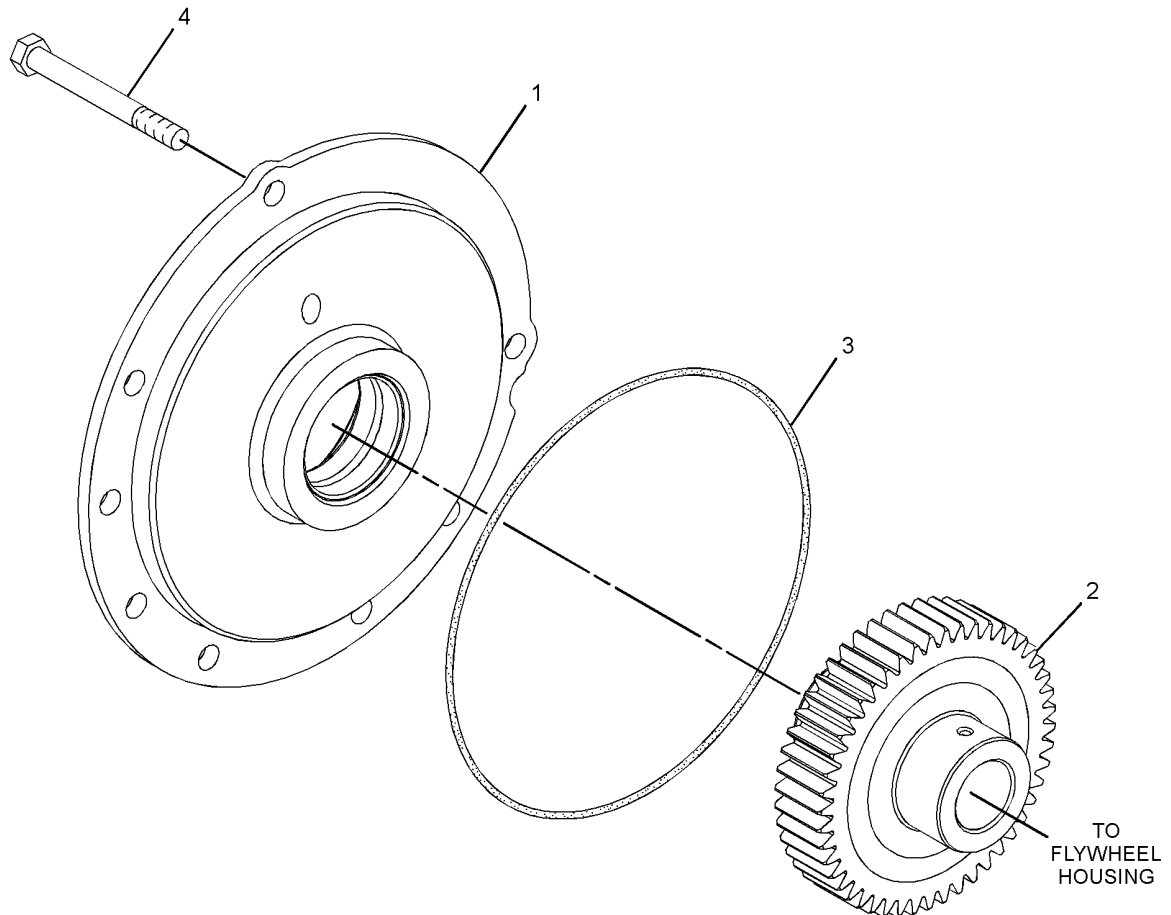
AN ATTACHMENT

SMCS-1207

i02440757

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-8236	1	ADAPTER AS						
		1	160-8184	1	BEARING-SLEEVE						
2	1	1	215-1816	1	GEAR AS (48 TEETH)						
		1	4F-6024	1	PIN						
		1	215-1817	1	GEAR (48 TEETH)						
3	1	1	2D-9572	1	SEAL-O-RING						
M	4	1	8T-0646	8	BOLT (M12X1.75X110-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01264587

BASIC ENGINE

215-1820 DRIVE GP-ACCESSORY

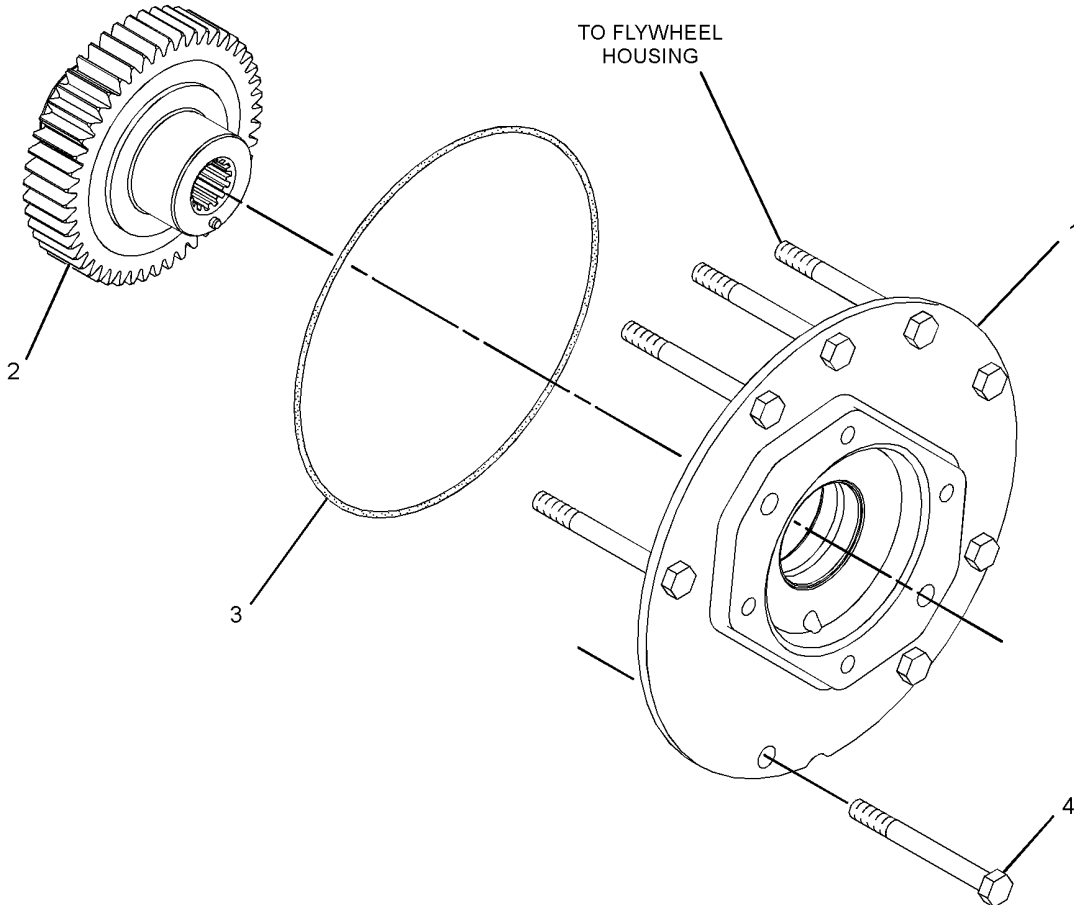
AN ATTACHMENT

SMCS-1207

i02440818

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-8237	1	ADAPTER AS						
		1	160-8184	1	BEARING-SLEEVE						
	2	1	215-1816	1	GEAR AS (48 TEETH)						
		1	4F-6024	1	PIN						
		1	215-1817	1	GEAR (48 TEETH)						
	3	1	2D-9572	1	SEAL-O-RING						
M	4	1	8T-0646	8	BOLT (M12X1.75X110-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01264833

BASIC ENGINE

215-3815 DRIVE GP-ACCESSORY

FOR USE WITH C9 TIER 111 IND ENGINE
AN ATTACHMENT

SMCS-1207

i02356957

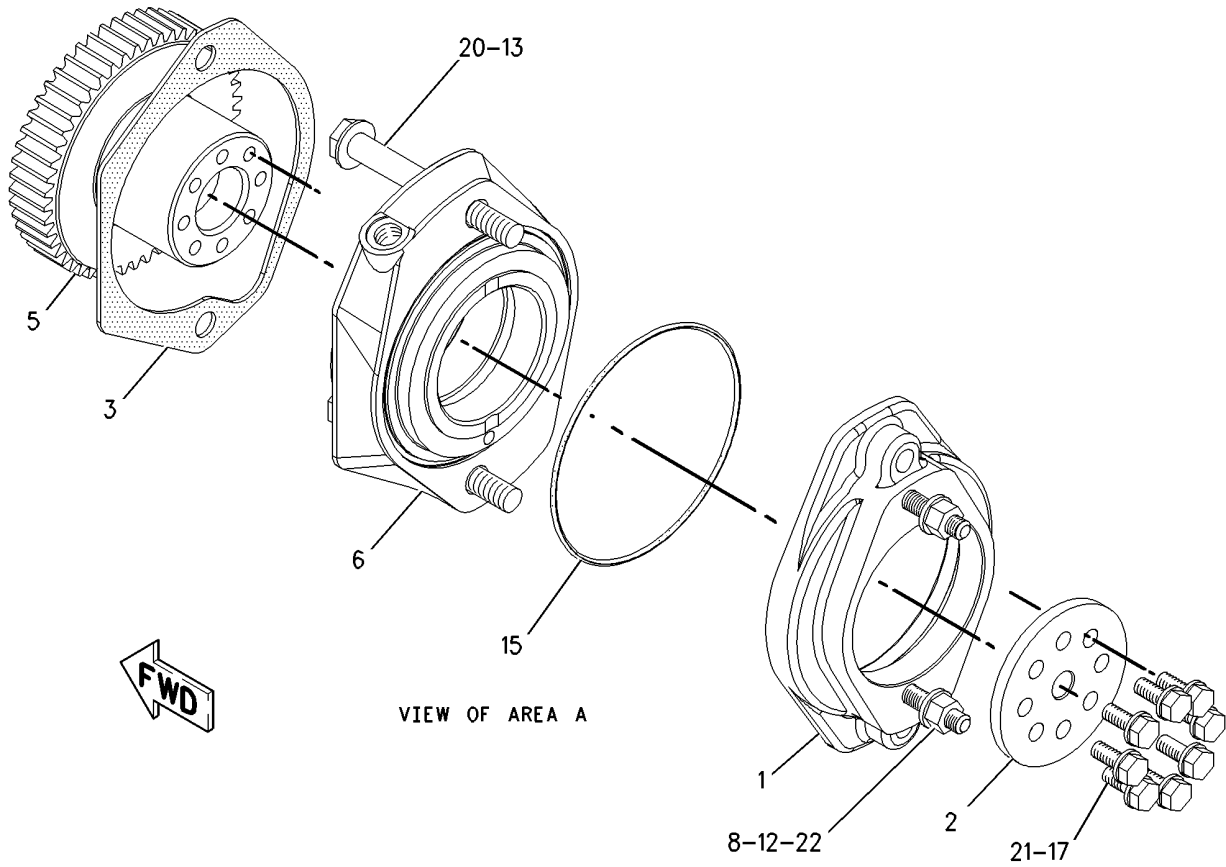
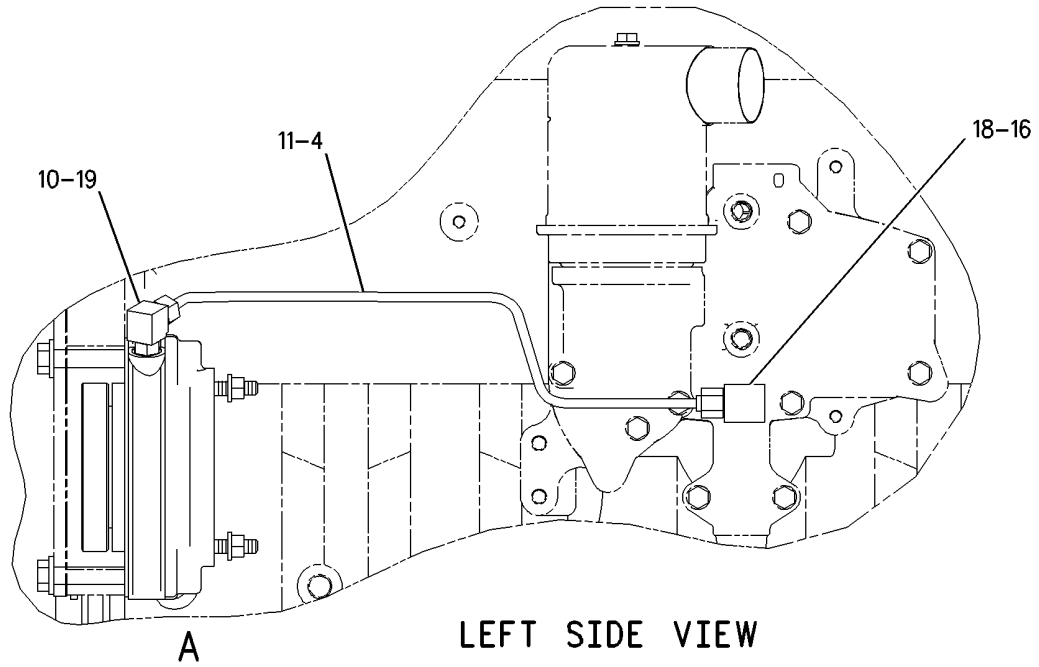
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-7521	1	ADAPTER						
	2	1	100-7523	1	COUPLING						
	3	1	135-9819	1	SEAL						
	4	1	215-3814	1	TUBE AS						
	5	1	100-7517	1	GEAR (50-TEETH)						
	6	1	100-7518	1	BEARING						
	8	1	2M-1538	2	STUD-TAPERLOCK (3/8-16X1.6-IN)						
	10	1	3J-7354	1	SEAL-O-RING						
	11	1	4J-5477	2	SEAL-O-RING						
	12	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	13	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	15	1	6S-3002	1	SEAL-O-RING						
	16	1	6V-5049	1	SEAL-O-RING						
M	17	1	6V-5217	8	BOLT (M8X1.25X20-MM)						
	18	1	6V-8627	1	ELBOW						
	19	1	6V-8628	1	ELBOW						
M	20	1	8T-0106	2	BOLT (M12X1.75X100-MM)						
	21	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						
	22	1	9S-8752	2	NUT-FULL (3/8-16-THD)						

M-METRIC PART

BASIC ENGINE

215-3815 DRIVE GP-ACCESSORY (contd.)

i02356957



GRAPHIC #1

<END>

g00866959

BASIC ENGINE

215-3816 DRIVE GP-ACCESSORY

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

SMCS-1207

i02480925

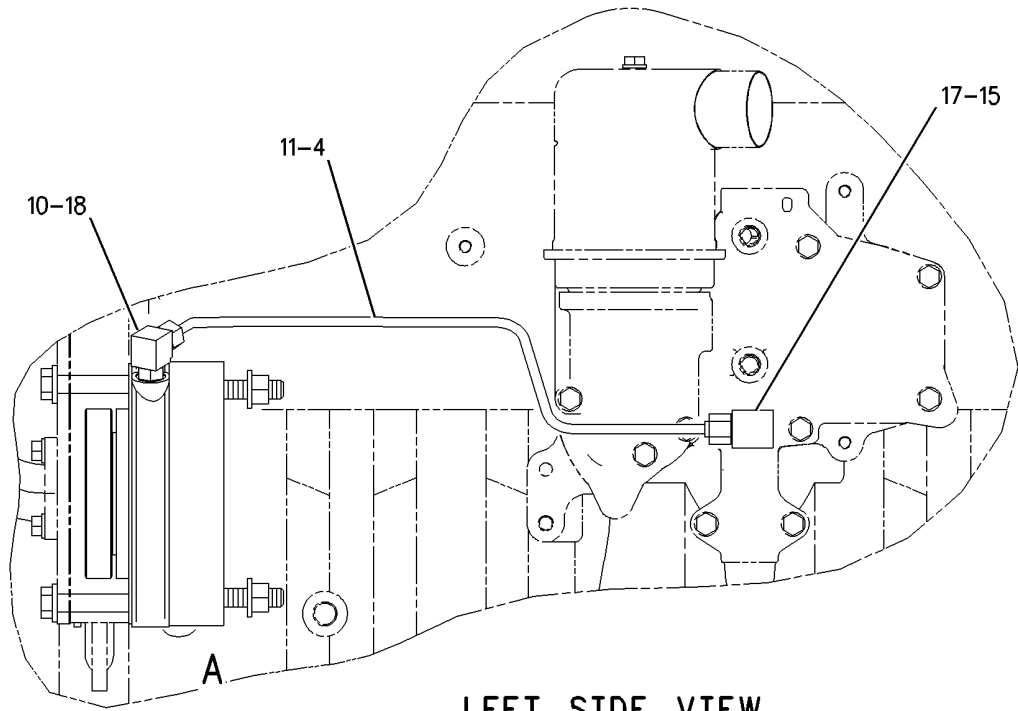
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1N-3974	1	COUPLING						
	3	1	135-9819	1	SEAL						
	4	1	215-3814	1	TUBE AS						
	5	1	100-7517	1	GEAR (50-TEETH)						
	6	1	100-7518	1	BEARING						
	7	1	100-7522	1	ADAPTER						
	9	1	1F-7958	2	NUT-FULL (1/2-13-THD)						
	10	1	3J-7354	1	SEAL-O-RING						
	11	1	4J-5477	2	SEAL-O-RING						
	12	1	5M-1932	2	STUD-TAPERLOCK (1/2-13X2.17-IN)						
	13	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
	14	1	6S-3002	1	SEAL-O-RING						
	15	1	6V-5049	1	SEAL-O-RING						
M	16	1	6V-5217	8	BOLT (M8X1.25X20-MM)						
	17	1	6V-8627	1	ELBOW						
	18	1	6V-8628	1	ELBOW						
M	19	1	8T-0106	2	BOLT (M12X1.75X100-MM)						
	21	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART

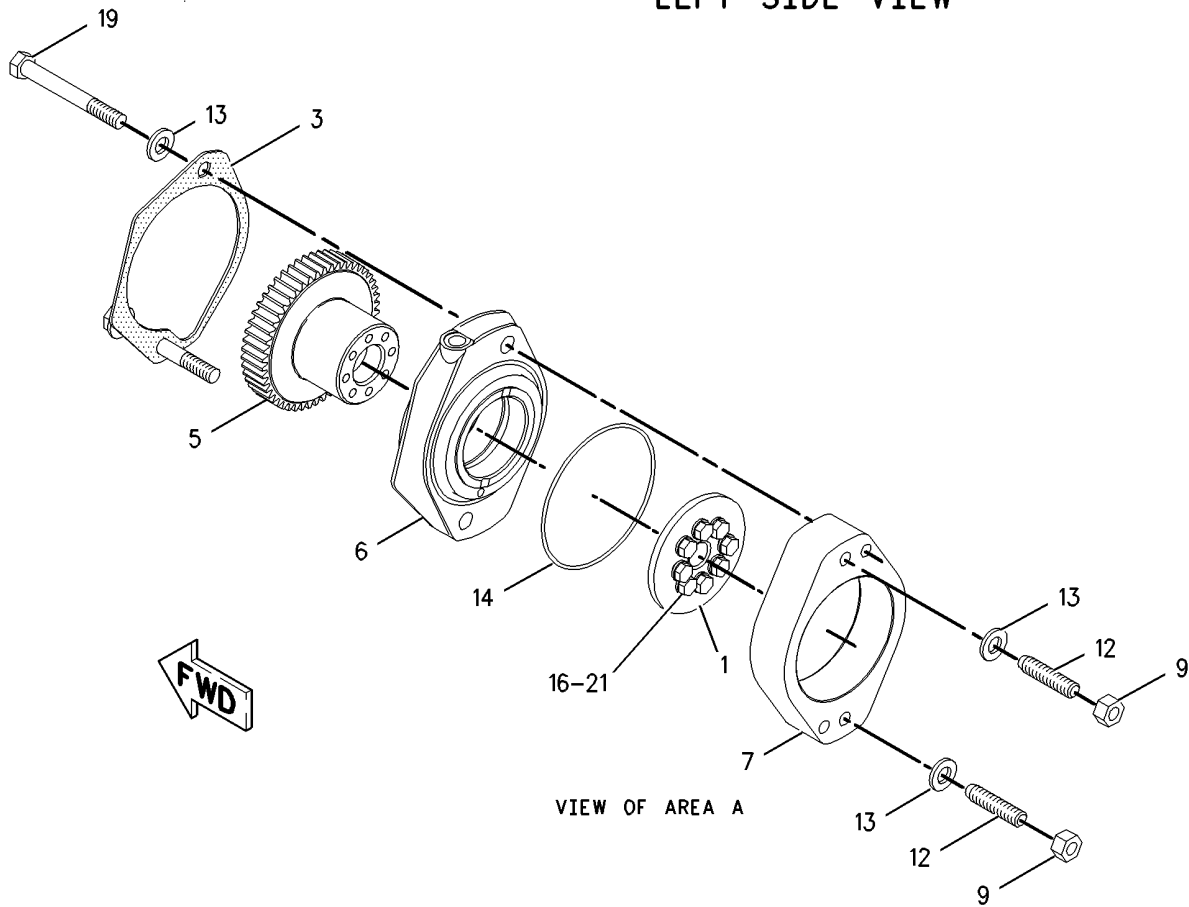
BASIC ENGINE

215-3816 DRIVE GP-ACCESSORY (contd.)

i02480925



LEFT SIDE VIEW



VIEW OF AREA A

GRAPHIC #1

<END>

g00867018

BASIC ENGINE

215-3817 DRIVE GP-ACCESSORY

AN ATTACHMENT

SMCS-1207

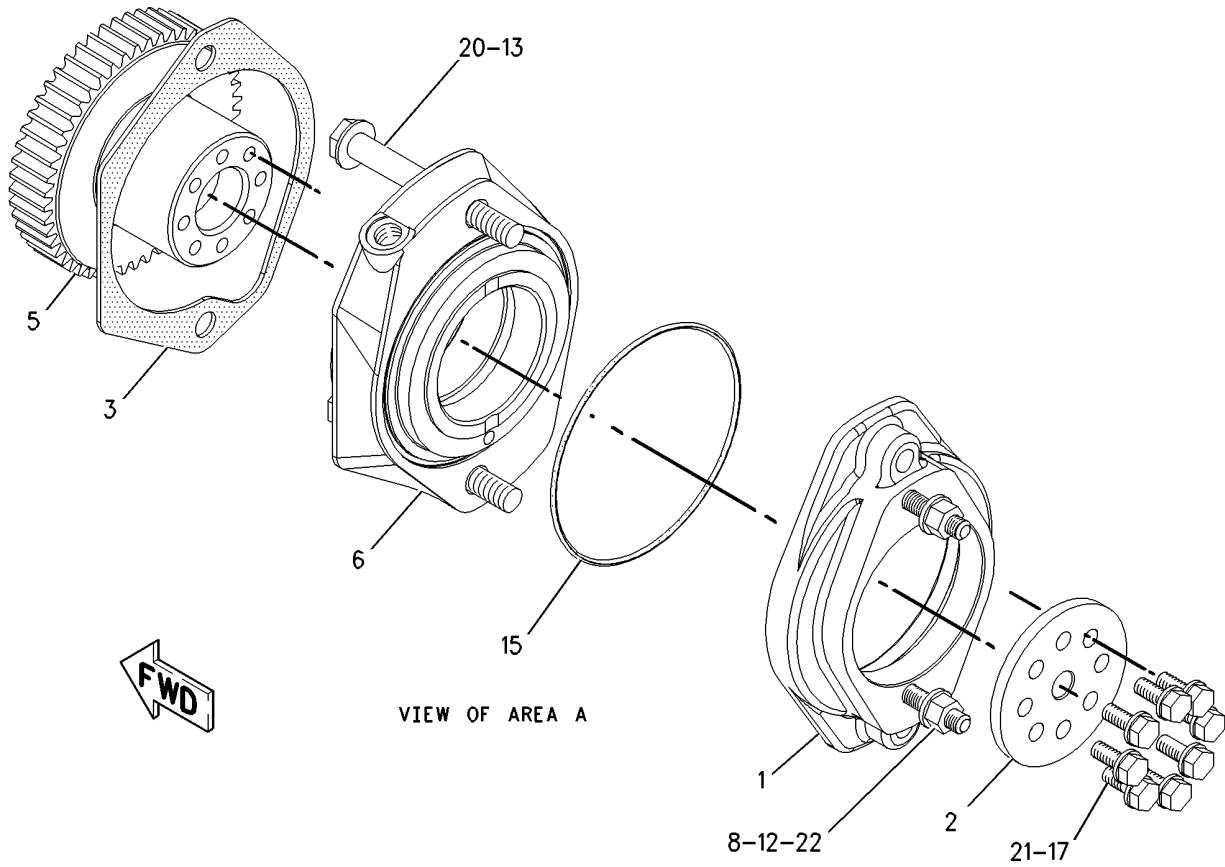
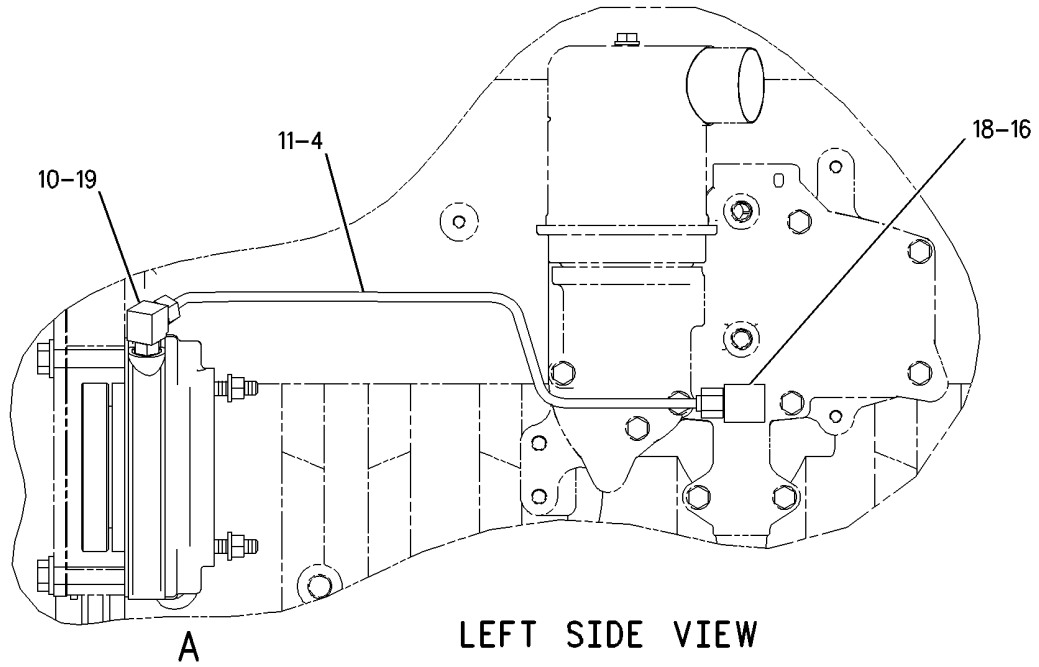
i02440800

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						
	4	1	215-3814	1	TUBE AS						
	5	1	100-7517	1	GEAR (50-TEETH)						
	6	1	100-7518	1	BEARING						
	8	1	2M-1538	2	STUD-TAPERLOCK (3/8-16X1.6-IN)						
	10	1	3J-7354	1	SEAL-O-RING						
	11	1	4J-5477	2	SEAL-O-RING						
	12	1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	13	1	5P-8245	2	WASHER-HARD (13.5X25.5X3-MM THK)						
	15	1	6S-3002	1	SEAL-O-RING						
	16	1	6V-5049	1	SEAL-O-RING						
M	17	1	6V-5217	8	BOLT (M8X1.25X20-MM)						
	18	1	6V-8627	1	ELBOW						
	19	1	6V-8628	1	ELBOW						
M	20	1	8T-0106	2	BOLT (M12X1.75X100-MM)						
	21	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						
	22	1	9S-8752	2	NUT-FULL (3/8-16-THD)						
M-METRIC PART											

BASIC ENGINE

215-3817 DRIVE GP-ACCESSORY (contd.)

i02440800



GRAPHIC #1

<END>

g00866959

BASIC ENGINE

194-9463 DRIVE GP-FAN

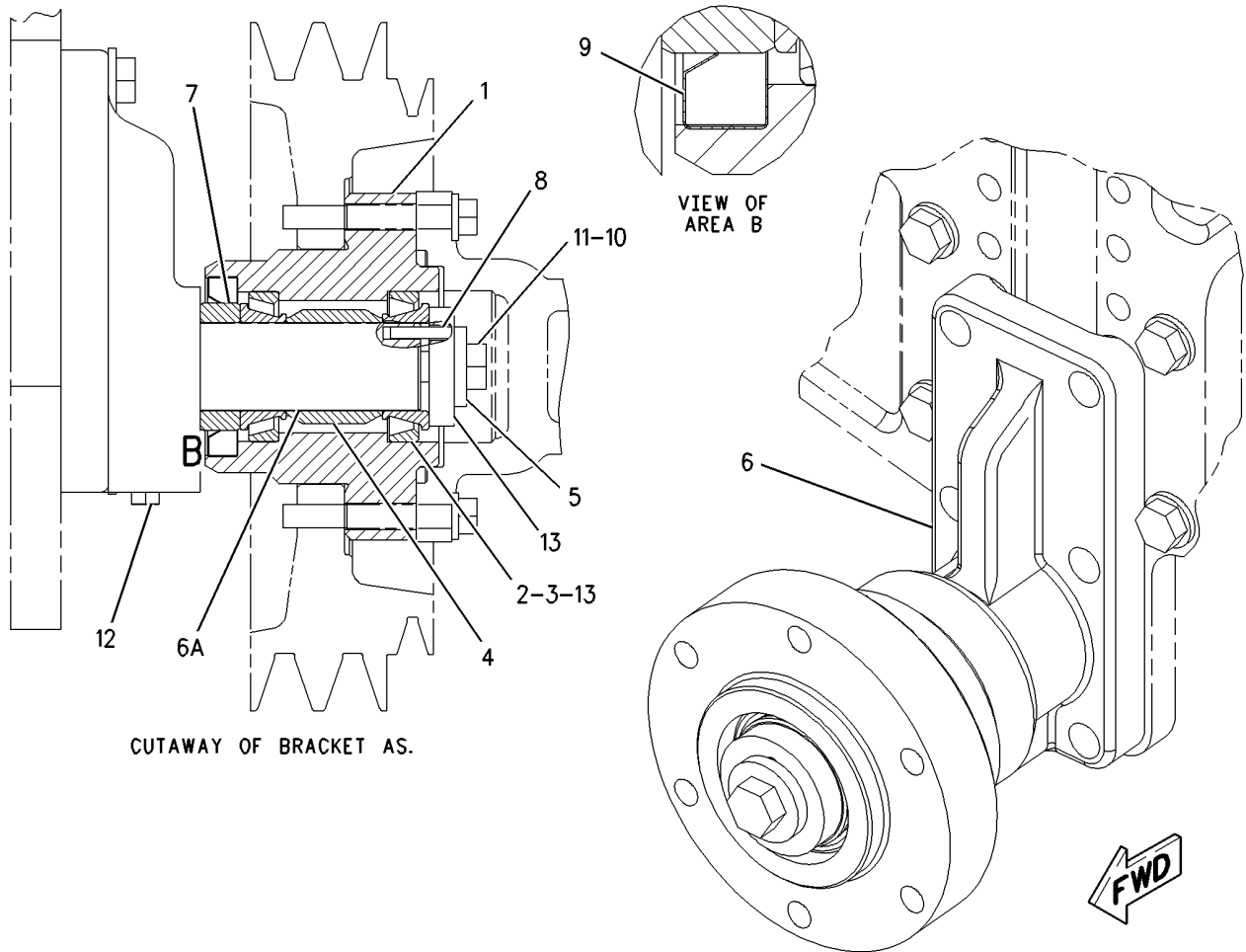
MULTI POSITION V-BELT, 11 INCH TO 22 INCH FAN HEIGHT
AN ATTACHMENT

SMCS-1359

i01569062

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

<END>

g00791294

BASIC ENGINE

256-6166 DRIVE GP-WATER PUMP

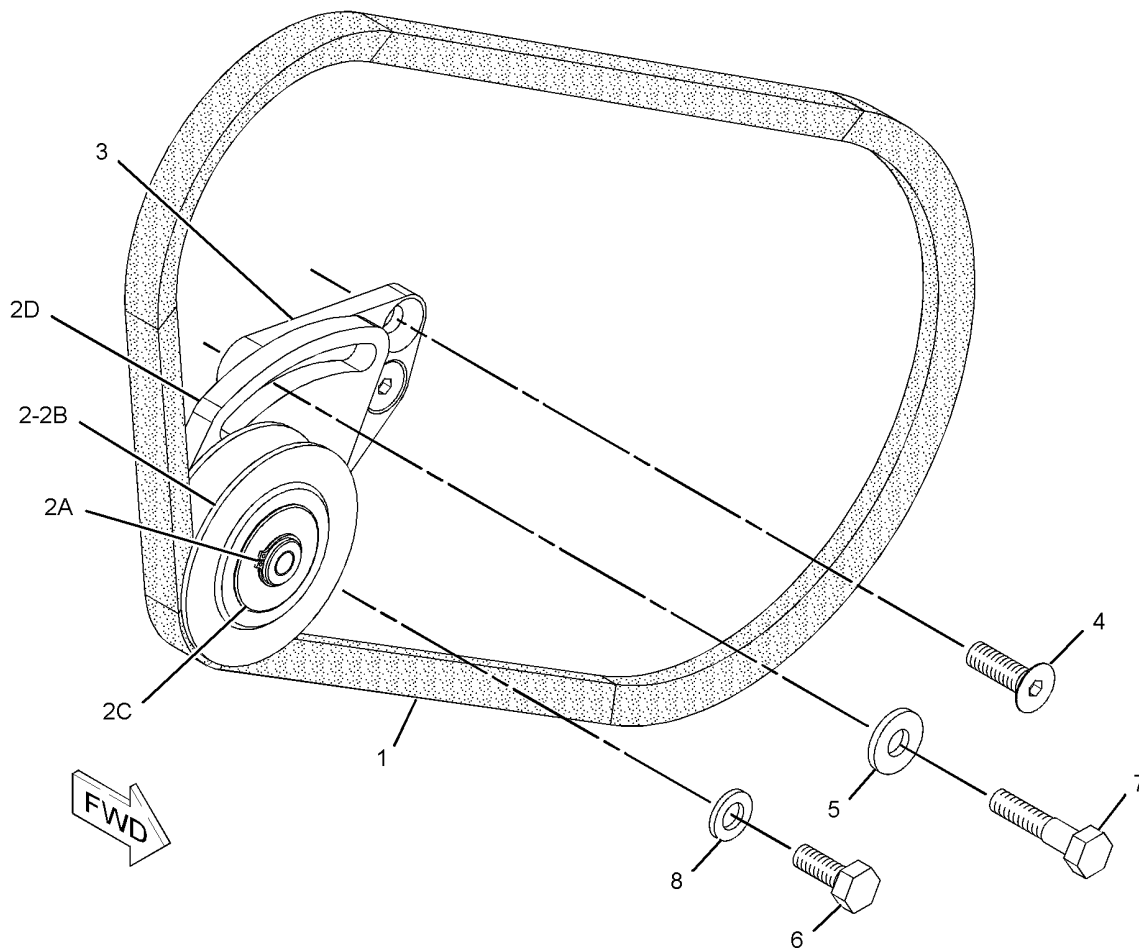
AN ATTACHMENT

SMCS-1361

i02292334

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9L-4896	1	V-BELT (WATER PUMP)						
	2	1	256-6168	1	PULLEY AS-IDLER						
	2A	1	2L-8509	1	RING-LOCK						
	2B	1	115-4237	1	PULLEY-IDLER						
	2C	1	156-1871	2	BALL BEARING						
	2D	1	256-6167	1	PLATE AS						
	3	1	256-6170	1	SPACER						
M	4	1	188-9644	2	SCREW-FLAT HEAD (M8X1.25X25-MM)						
	5	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5-MM THK)						
M	6	1	6V-5217	1	BOLT (M8X1.25X20-MM)						
M	7	1	6V-5218	1	BOLT (M8X1.25X35-MM)						
	8	1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01119745

BASIC ENGINE

167-0171 FASTENER GP-CYLINDER HEAD

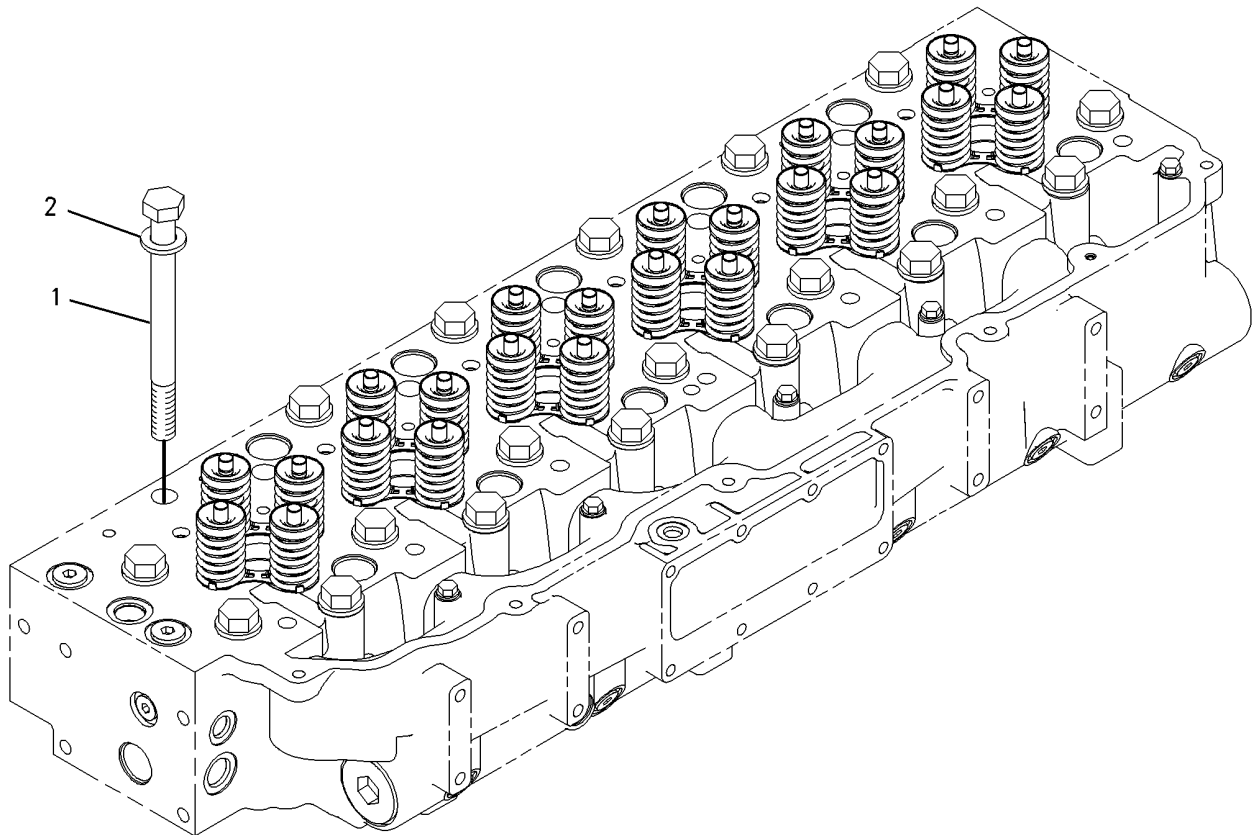
PART OF 213-4363 FASTENER GP-CYLINDER HEAD

SMCS-1100

i02247518

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	183-5163	1	BOLT (M16X2X180-MM)						
	2	1	9X-8268	1	WASHER (17.5X30X3.5-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00792849

BASIC ENGINE

213-4363 FASTENER GP-CYLINDER HEAD

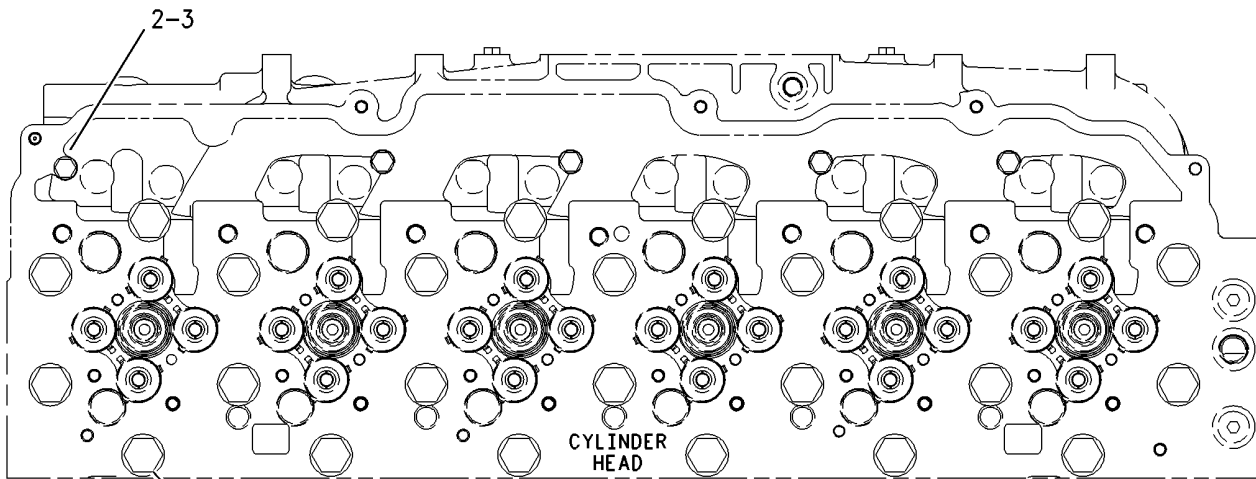
PART OF 287-3653 ENGINE AR-CORE

SMCS-1100

i01972260

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
Y	1	1	167-0171	26	FASTENER GP-CYLINDER HEAD	71
M	2	1	8C-4984	5	BOLT (M8X1.25X150MM)	
	3	1	9M-1974	5	WASHER-HARD (8.8X16X2MM THK)	

M-METRIC PART
Y-SEPARATE ILLUSTRATION



TOP VIEW

GRAPHIC #1

<END>

g00919169

BASIC ENGINE

256-9753 FASTENER GP-DAMPER & PULLEY

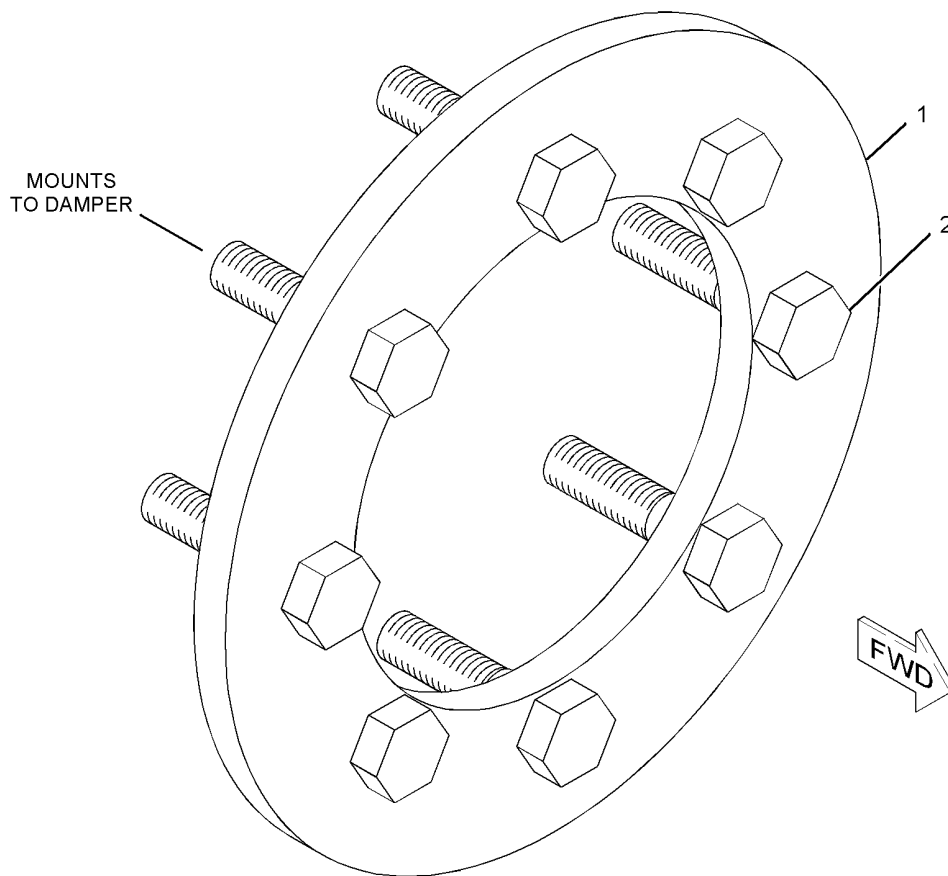
AN ATTACHMENT

SMCS-1205, 7553

i02292332

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	228-3621	1	SPACER						
M	2	1	6V-5842	8	BOLT (M10X1.5X40-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01120164

BASIC ENGINE

256-9757 FASTENER GP-DAMPER & PULLEY- CRANKSHAFT PULLEY

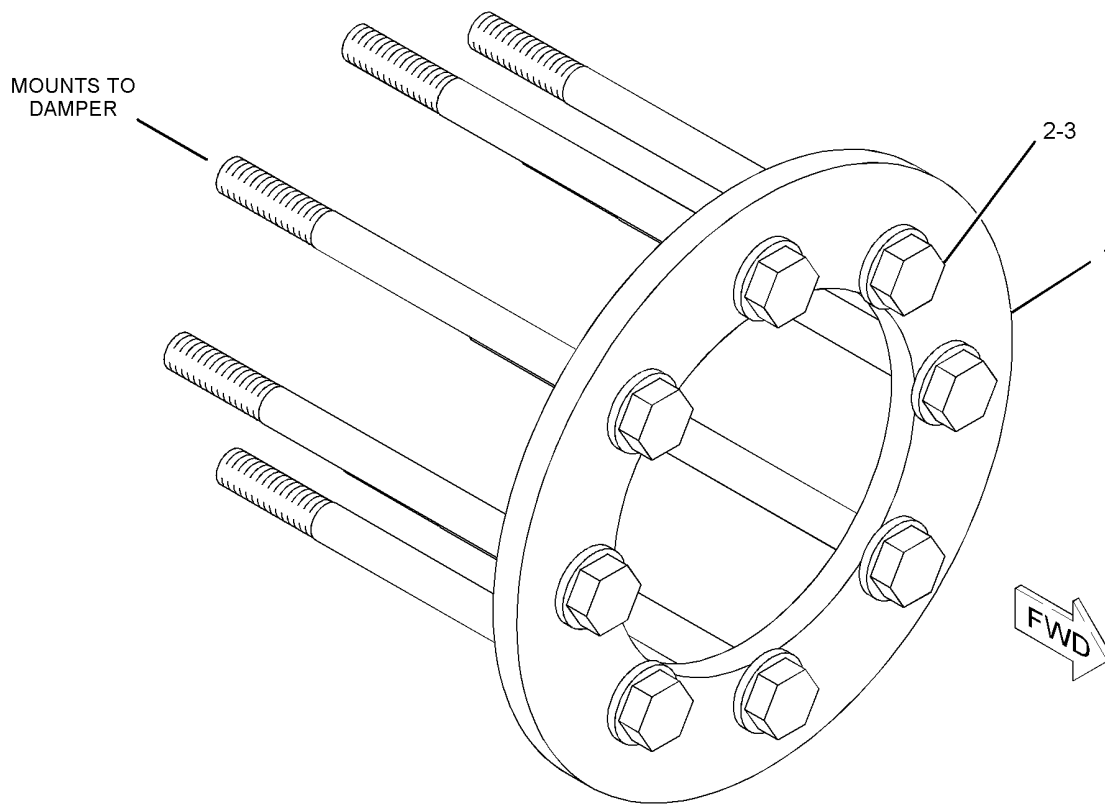
FOR USE WITH 256-9754-PAGE 152, 256-9755-PAGE 153. CANNOT BE USED WITH
PULLEY GP-AUX DRIVE
AN ATTACHMENT

SMCS-1205, 7553

i02298703

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	228-3621	1	SPACER						
	2	1	6V-5839	8	WASHER (11X21X2.5-MM THK)						
M	3	1	8C-2926	8	BOLT (M10X1.5X140-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01120204

BASIC ENGINE

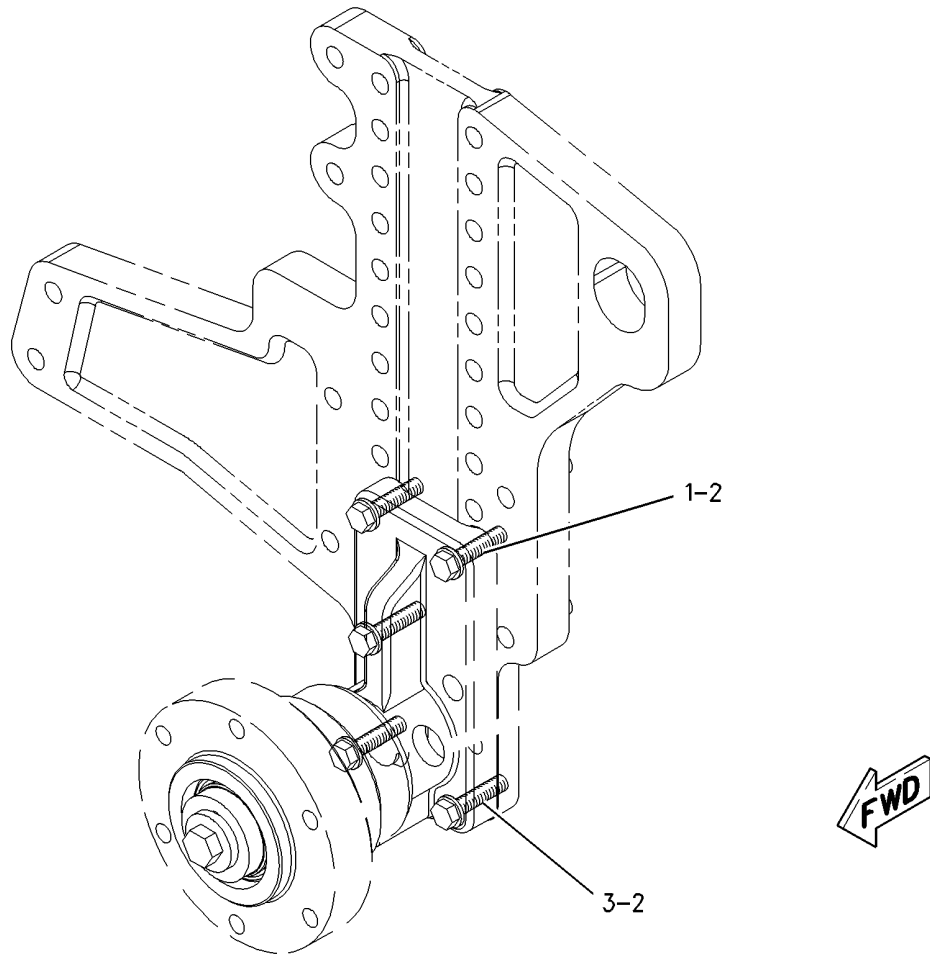
198-7629 FASTENER GP-FAN DRIVE 11 INCH FAN DRIVE HEIGHT AN ATTACHMENT

SMCS-1359

i01565016

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 (13.5X25.5X3-MM THK)						
M	3	1	8T-4956	1	BOLT (M12X1.75X35-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00751432

BASIC ENGINE

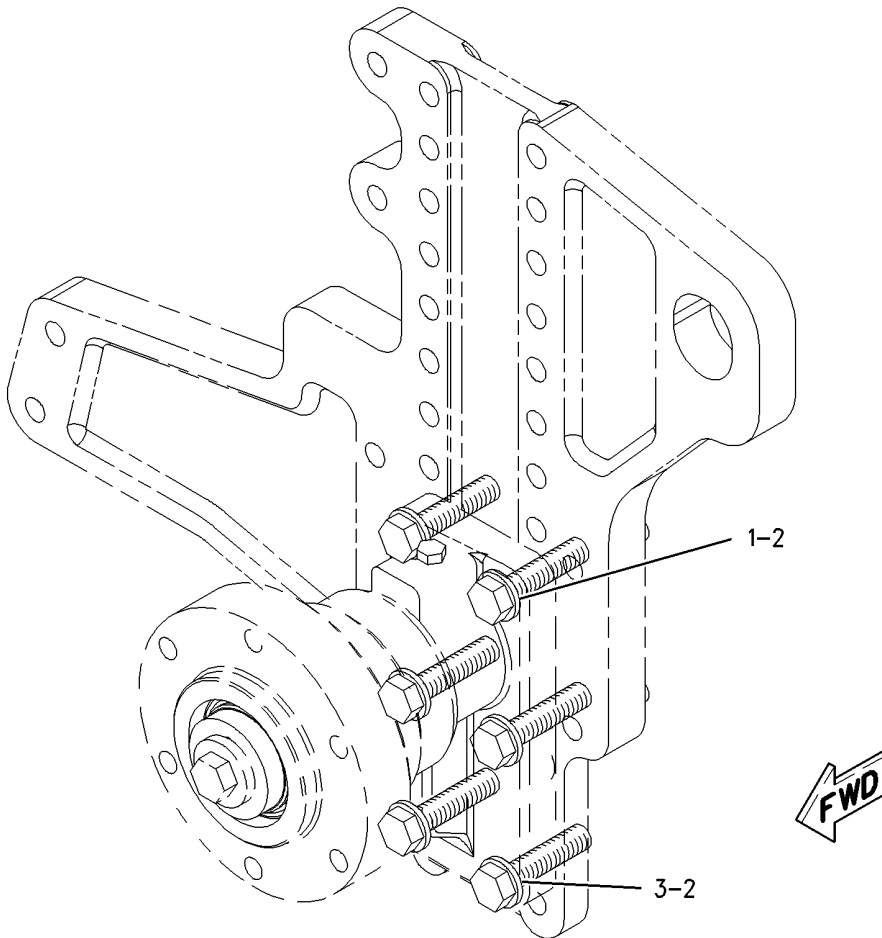
198-7630 FASTENER GP-FAN DRIVE AN ATTACHMENT

SMCS-1359

i02549076

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 (13.5X25.5X3-MM THK)						
M	3	1	8T-4956	1	BOLT (M12X1.75X35-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00751566

BASIC ENGINE

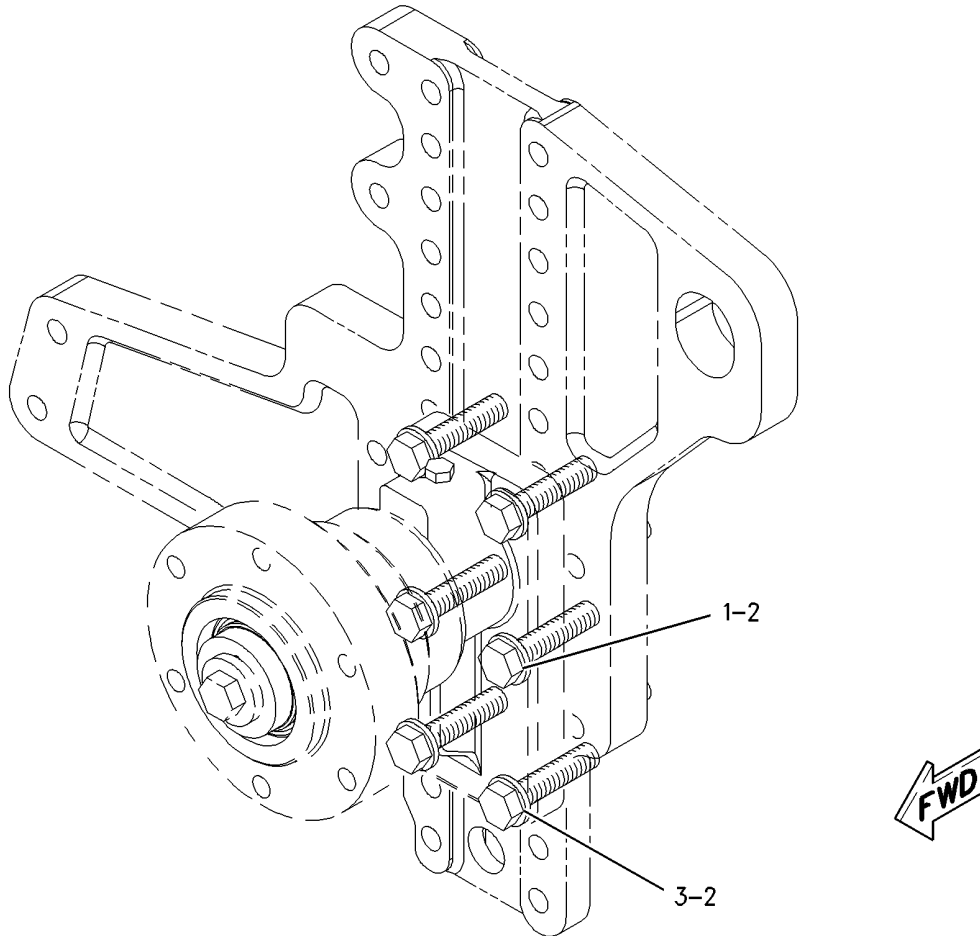
198-7631 FASTENER GP-FAN DRIVE AN ATTACHMENT

SMCS-1359

i02549082

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 (13.5X25.5X3-MM THK)						
M	3	1	8T-4956	1	BOLT (M12X1.75X35-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00751577

BASIC ENGINE

198-7632 FASTENER GP-FAN DRIVE

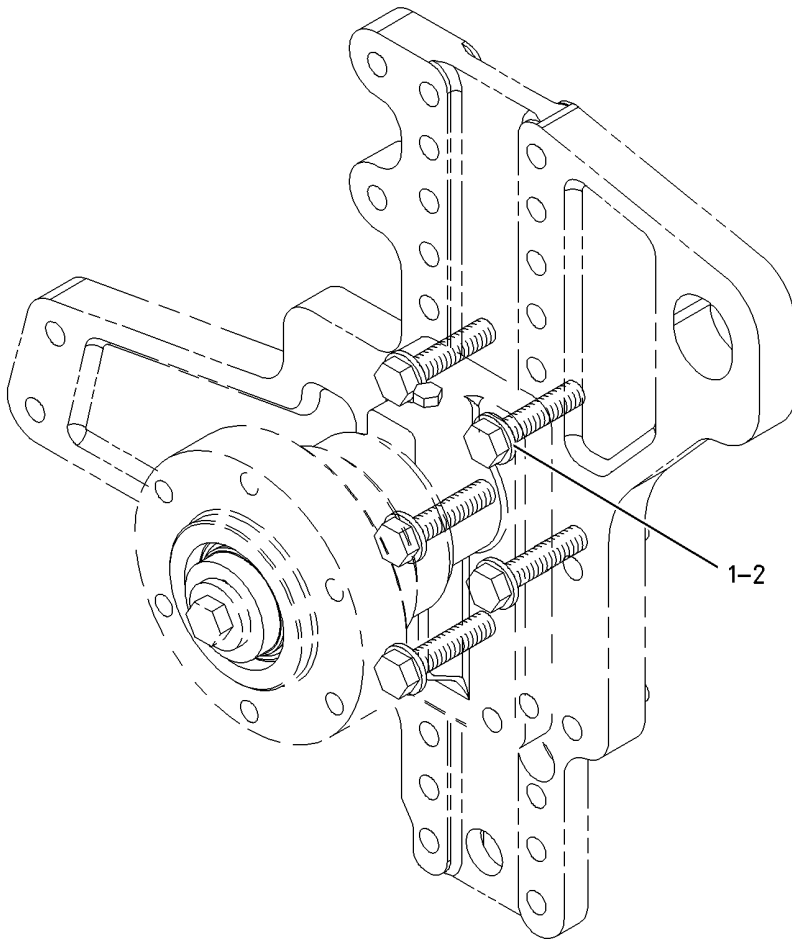
AN ATTACHMENT

SMCS-1359

i02385088

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751584

BASIC ENGINE

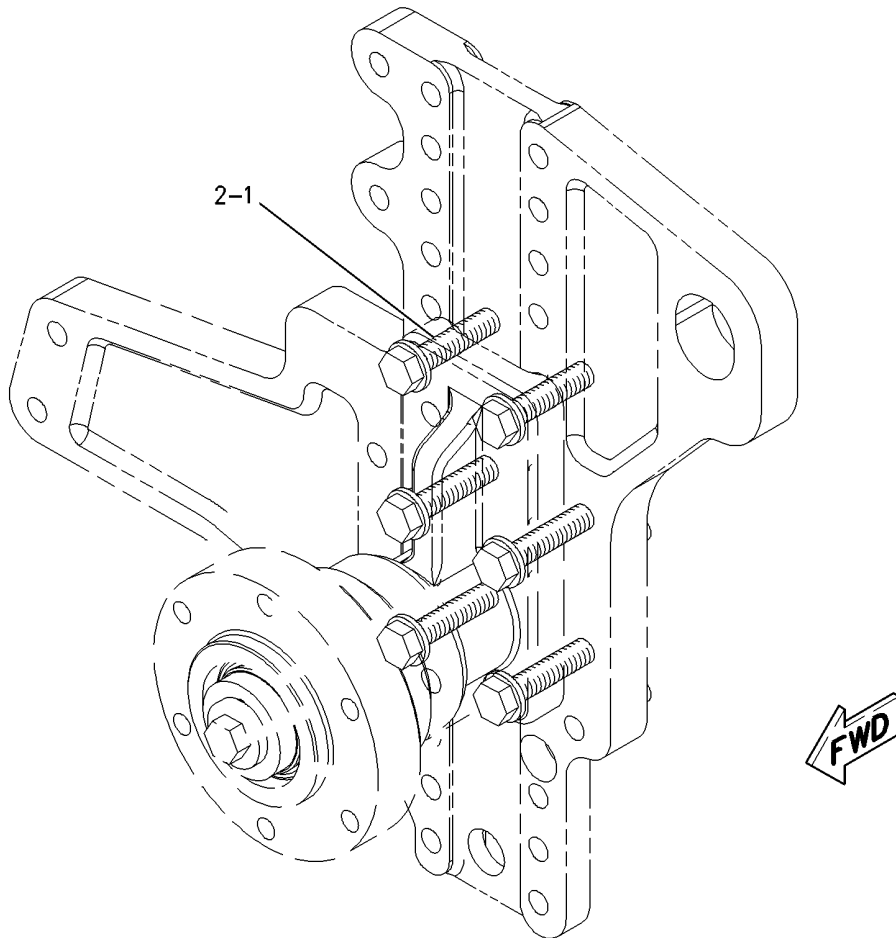
198-7633 FASTENER GP-FAN DRIVE 15-INCH FAN DRIVE HEIGHT AN ATTACHMENT

SMCS-1359

i02252009

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751480

BASIC ENGINE

198-7634 FASTENER GP-FAN DRIVE

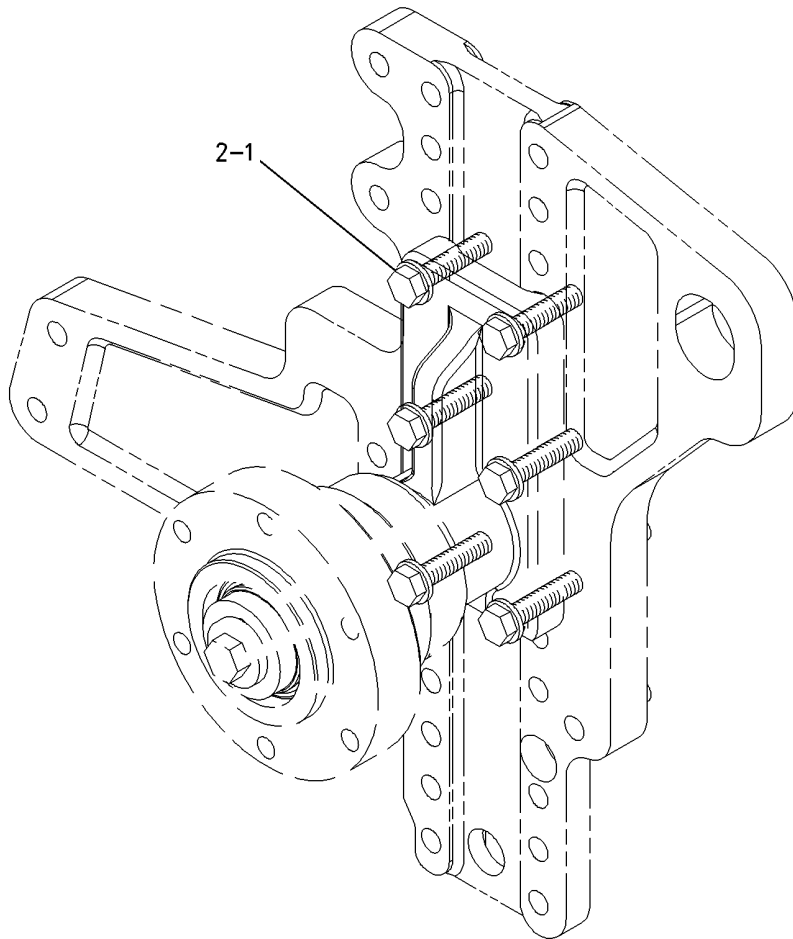
AN ATTACHMENT

SMCS-1359

i02549086

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751492

BASIC ENGINE

198-7635 FASTENER GP-FAN DRIVE

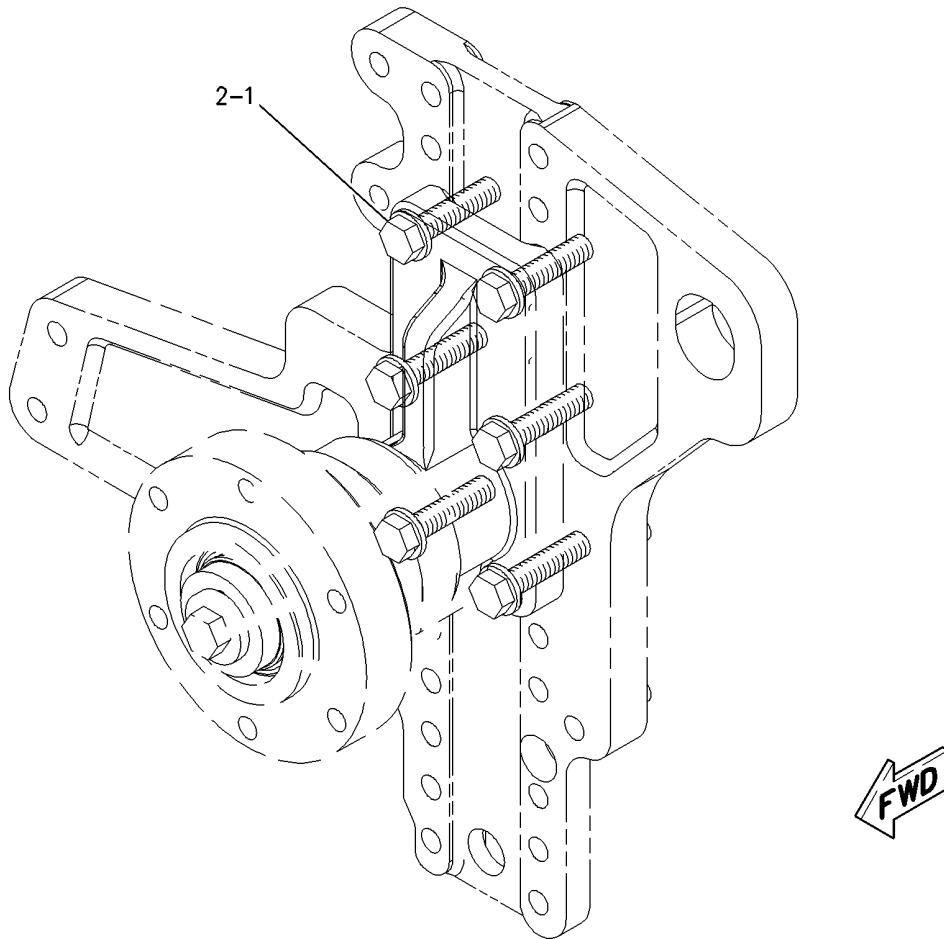
AN ATTACHMENT

SMCS-1359

i02549089

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751503

BASIC ENGINE

198-7636 FASTENER GP-FAN DRIVE

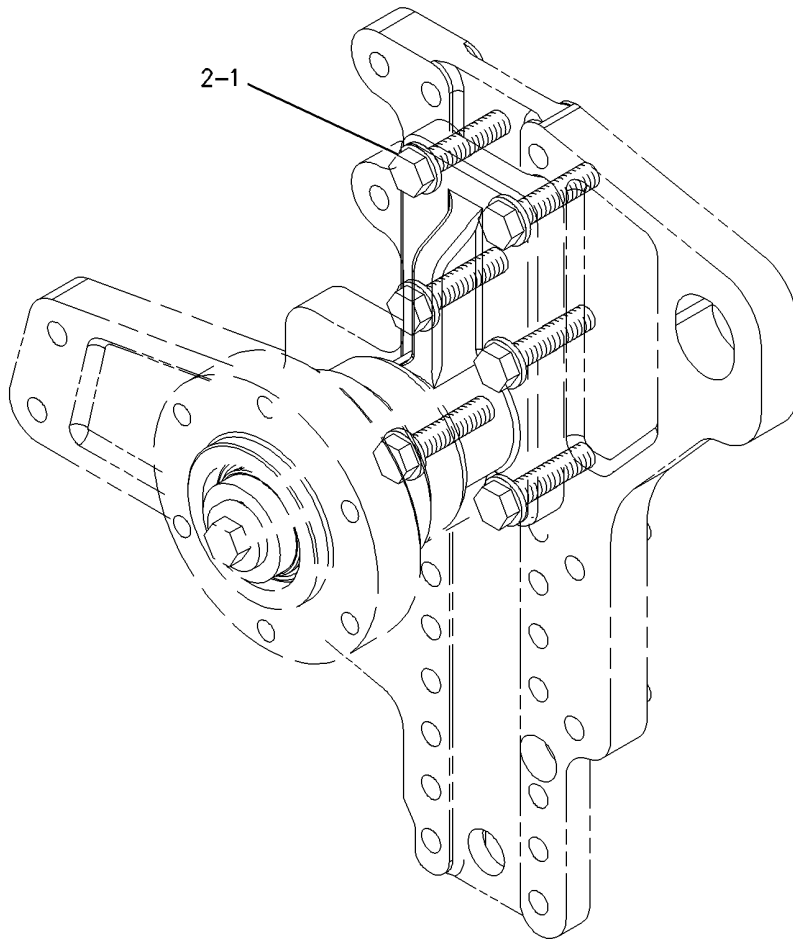
AN ATTACHMENT

SMCS-1359

i02549098

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751521

BASIC ENGINE

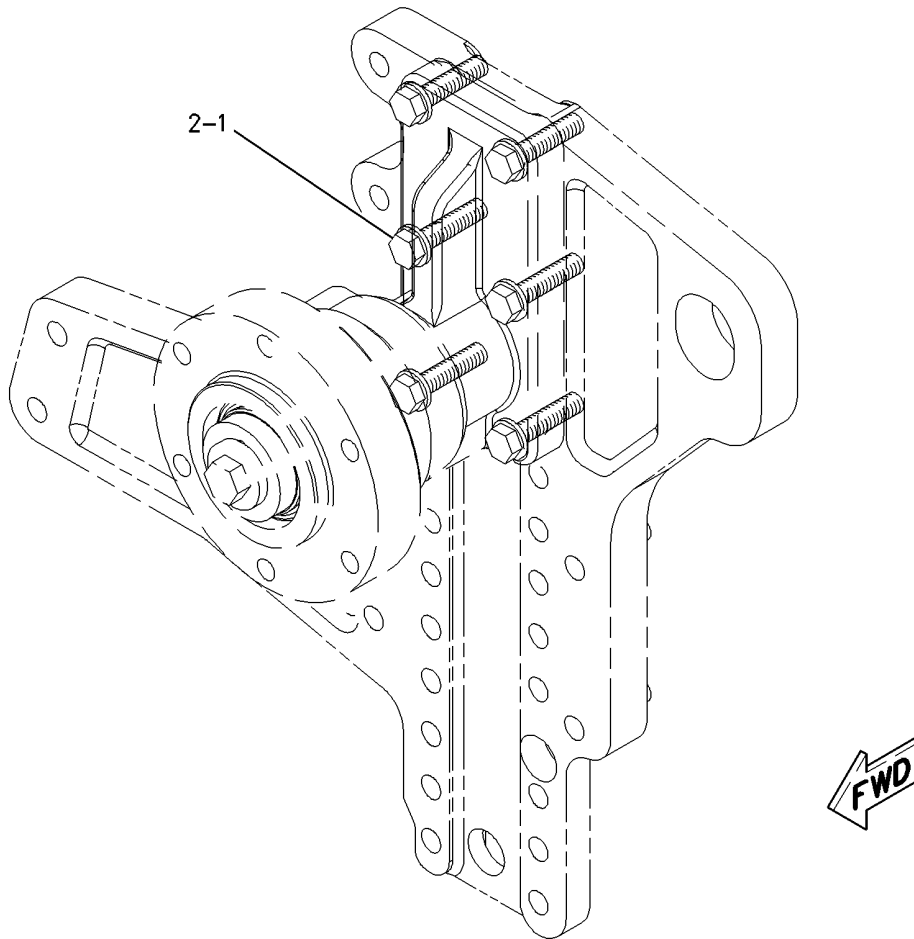
198-7637 FASTENER GP-FAN DRIVE AN ATTACHMENT

SMCS-1359

i02549103

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751526

BASIC ENGINE

198-7638 FASTENER GP-FAN DRIVE

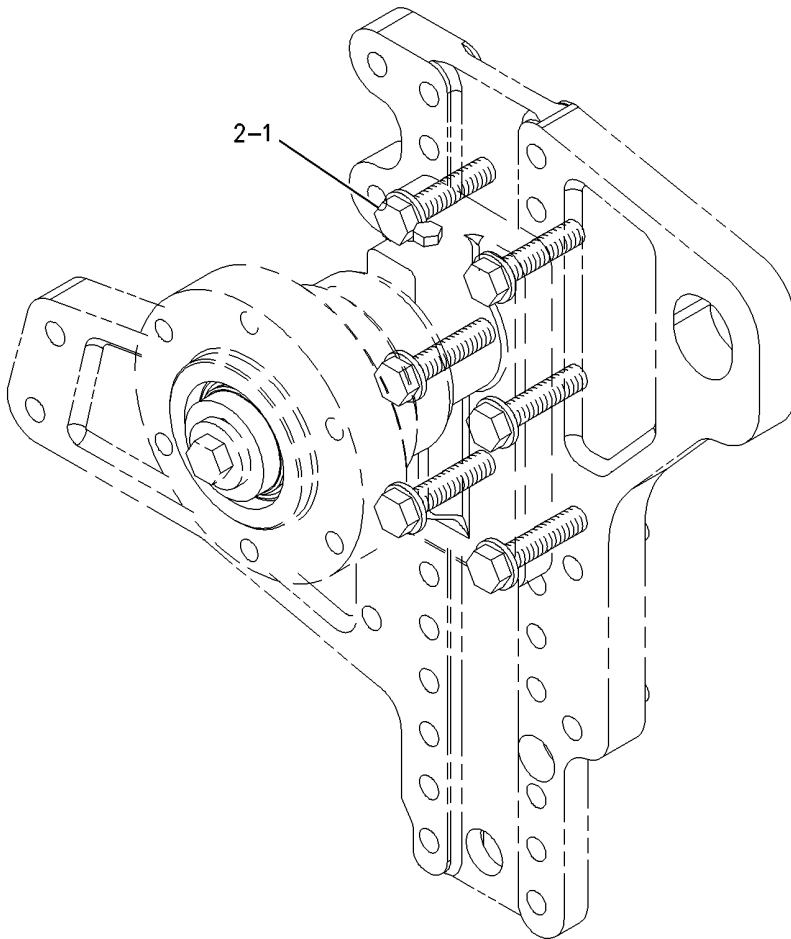
AN ATTACHMENT

SMCS-1359

i02549112

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751529

BASIC ENGINE

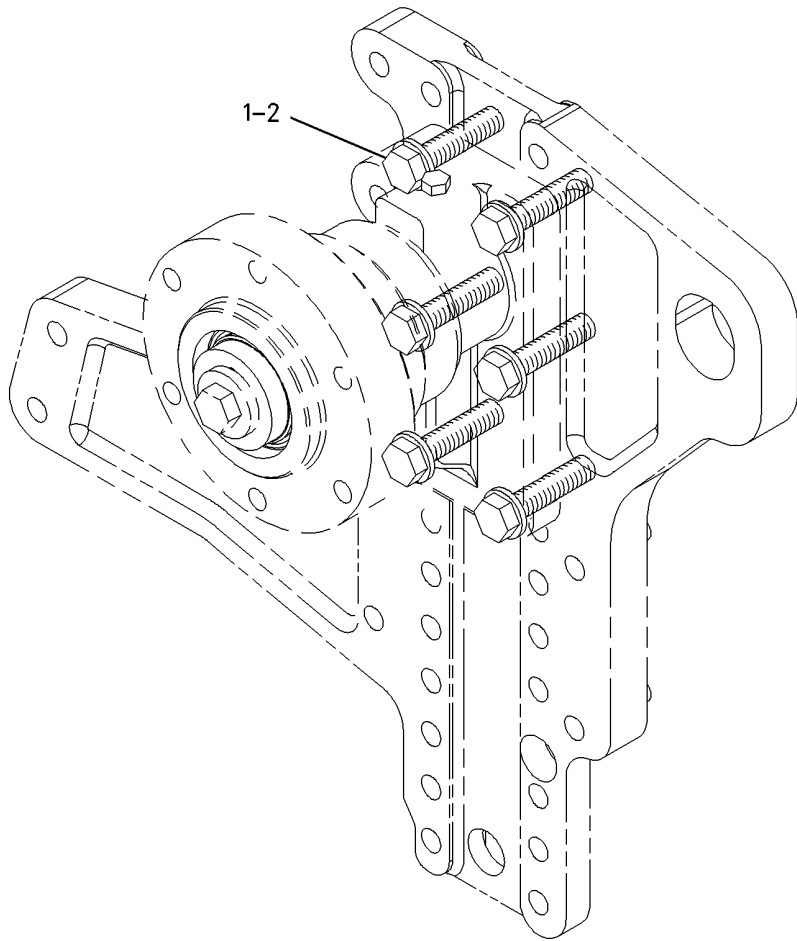
198-7639 FASTENER GP-FAN DRIVE AN ATTACHMENT

SMCS-1359

i02549113

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751556

BASIC ENGINE

198-7640 FASTENER GP-FAN DRIVE

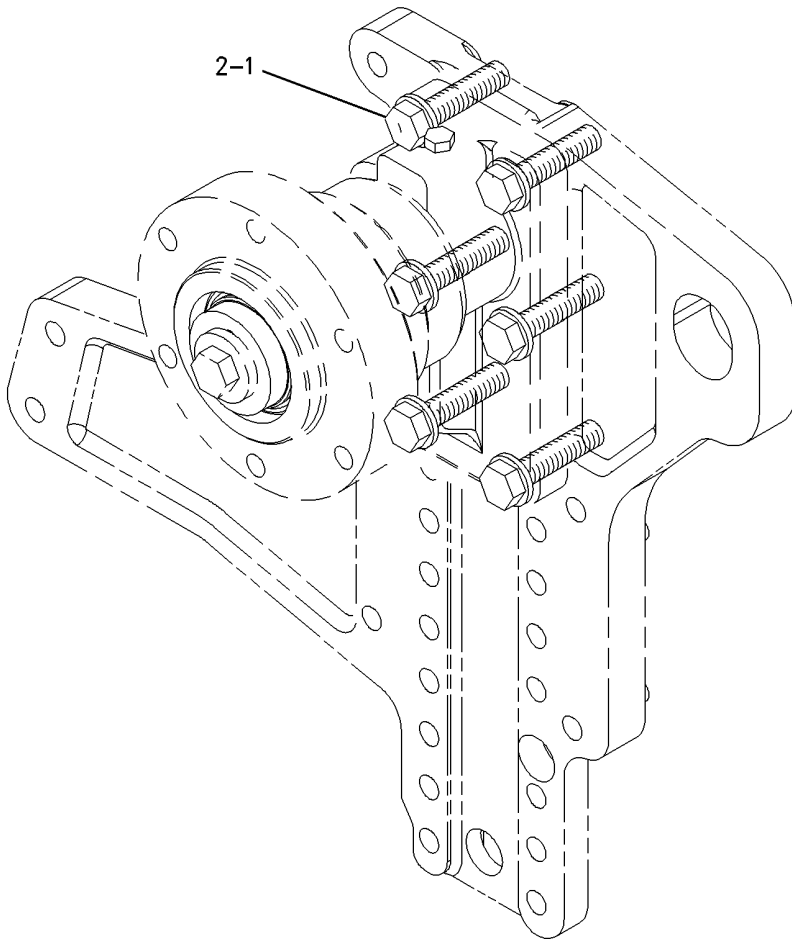
AN ATTACHMENT

SMCS-1359

i02549115

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 (13.5X25.5X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00751562

BASIC ENGINE

126-0177 FASTENER GP-FLYWHEEL

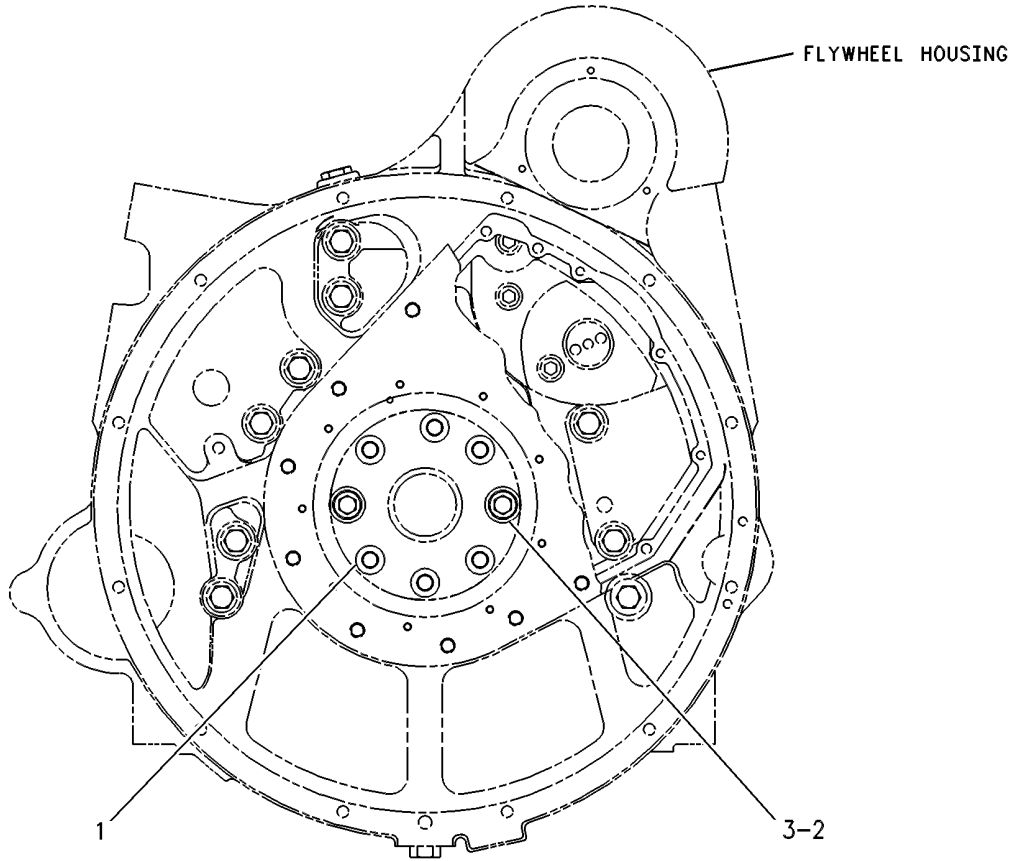
AN ATTACHMENT

SMCS-1156

i02490052

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	5P-0997	6	PLUG-SEAL	
	2	1	5P-8247	2	WASHER-HARD (17X32X3.5-MM THK)	
M	3	1	095-0706	2	BOLT-SOCKET HEAD (M16X2X110-MM)	

M-METRIC PART



REAR VIEW

GRAPHIC #1

<END>

g00251330

BASIC ENGINE

155-4312 FASTENER GP-FLYWHEEL

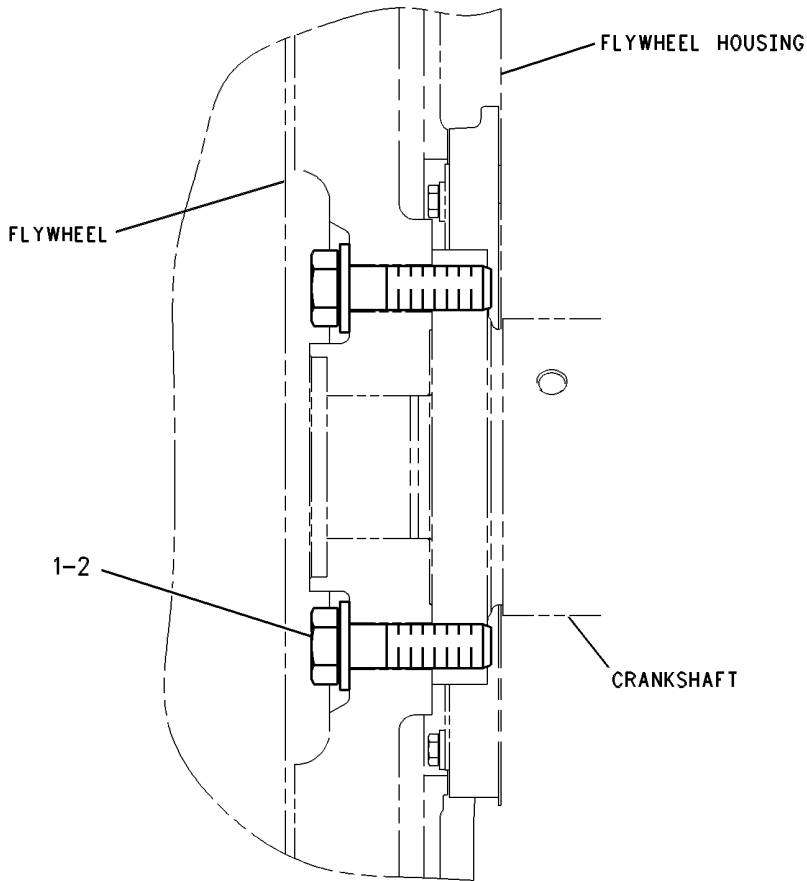
AN ATTACHMENT

SMCS-1156

i02179784

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	162-2776	8	BOLT (M16X2X55-MM)						
	2	1	5P-8247	8	WASHER-HARD (17X32X3.5-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00349028

BASIC ENGINE

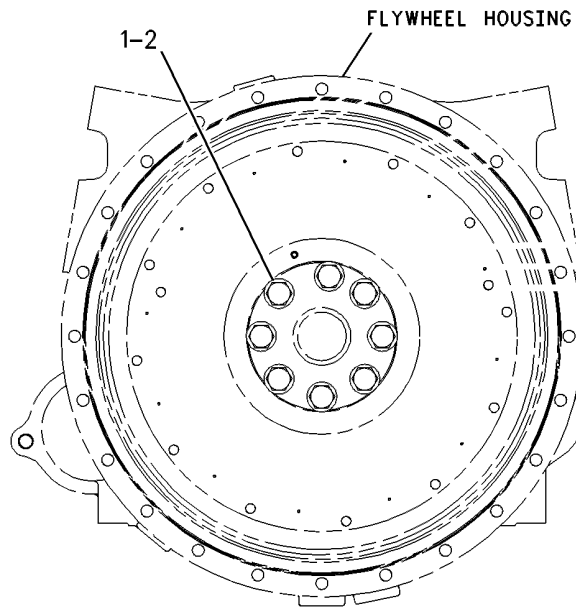
155-4313 FASTENER GP-FLYWHEEL AN ATTACHMENT

SMCS-1156

i02293192

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	5P-8247	8	WASHER-HARD (17X32X3.5-MM THK)	
M	2	1	103-6169	8	BOLT (M16X2X60-MM)	

M-METRIC PART



GRAPHIC #1

<END>

g00349025

BASIC ENGINE

116-4556 FASTENER GP-FRONT HOUSING

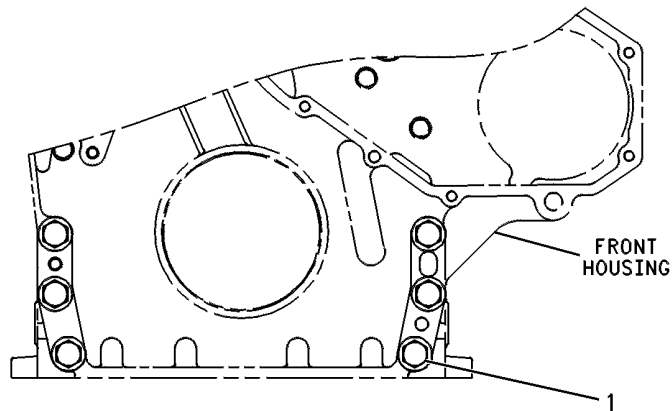
CANNOT BE USED WITH FRONT ENGINE SUPPORT
AN ATTACHMENT

SMCS-1151, 1162

i00670220

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 (M12X1.75X70-MM)						
		1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

<END>

g00244671

BASIC ENGINE

166-1788 FASTENER GP-FRONT HOUSING

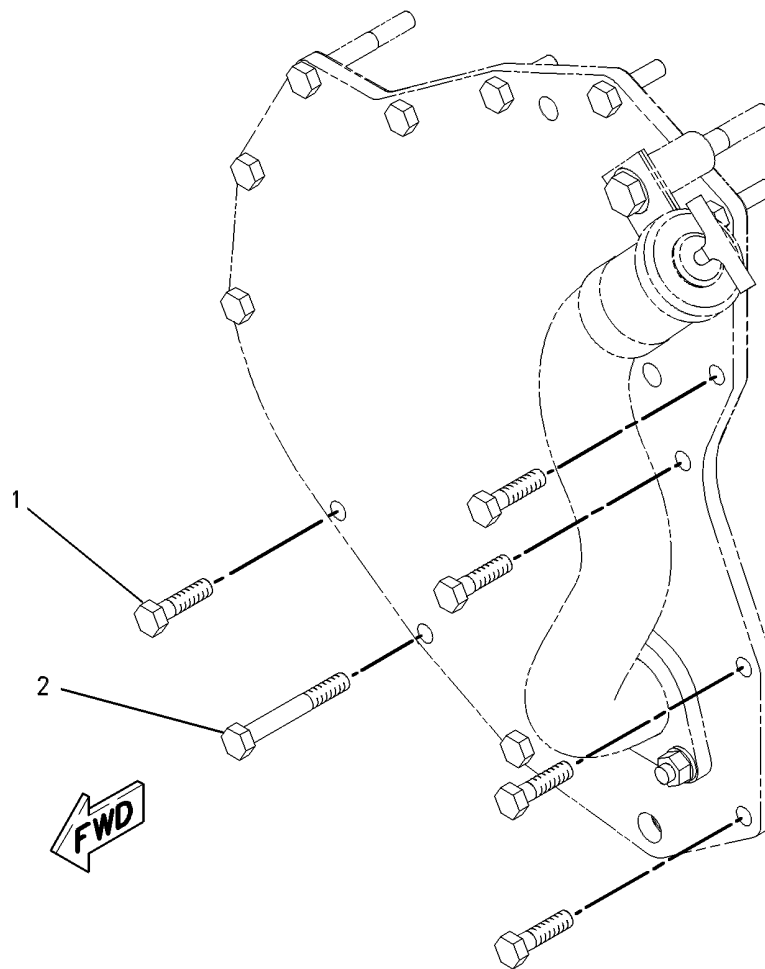
AN ATTACHMENT

SMCS-1151, 1162

i01536900

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

<END>

g00628156

BASIC ENGINE

173-7123 FASTENER GP-FRONT HOUSING

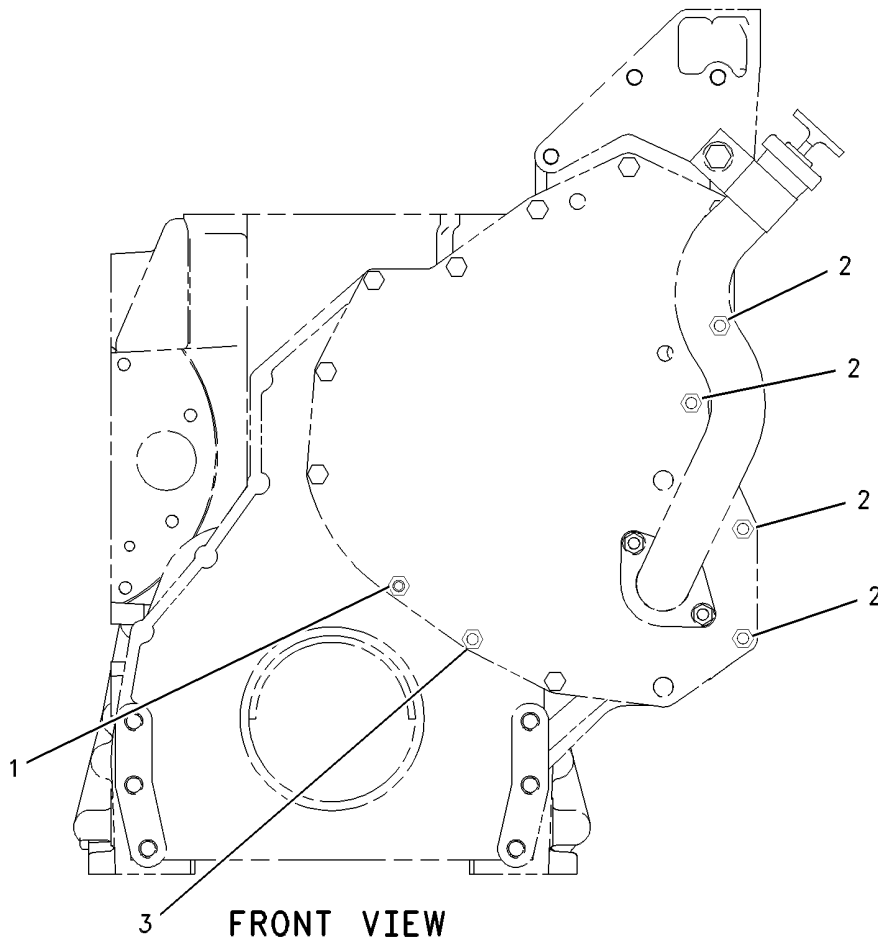
AN ATTACHMENT

SMCS-1151, 1162

i02293229

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	9X-2099	1	STUD (M8X1.25-THD)						
M	2	1	6V-2317	4	BOLT (M8X1.25X30-MM)						
M	3	1	8T-0100	1	BOLT (M8X1.25X60-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00624859

BASIC ENGINE

117-3477 FASTENER GP-LIFTING

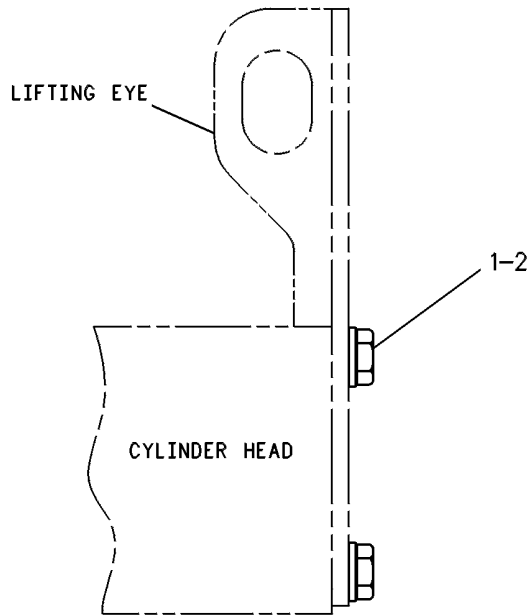
FRONT
CANNOT BE USED WITH FAN DRIVE
AN ATTACHMENT

SMCS-1122

i01582001

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 (11X21X2.5MM THK)						

M-METRIC PART



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00247017

BASIC ENGINE

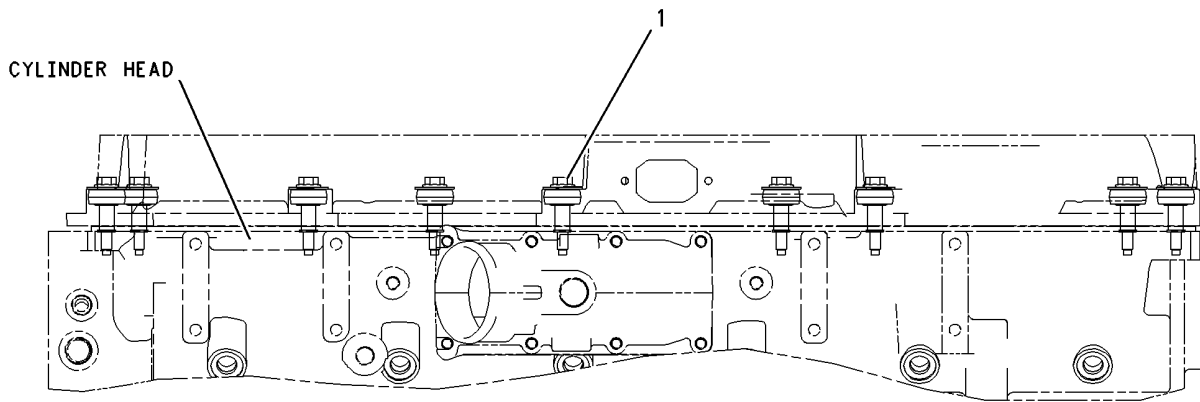
233-0423 FASTENER GP-VALVE COVER-BASE

AN ATTACHMENT
TYPE 1

SMCS-1107

i02179699

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	208-0039	9	FASTENER AS						



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00952459

BASIC ENGINE

233-0423 FASTENER GP-VALVE COVER-BASE

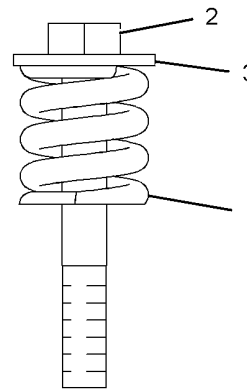
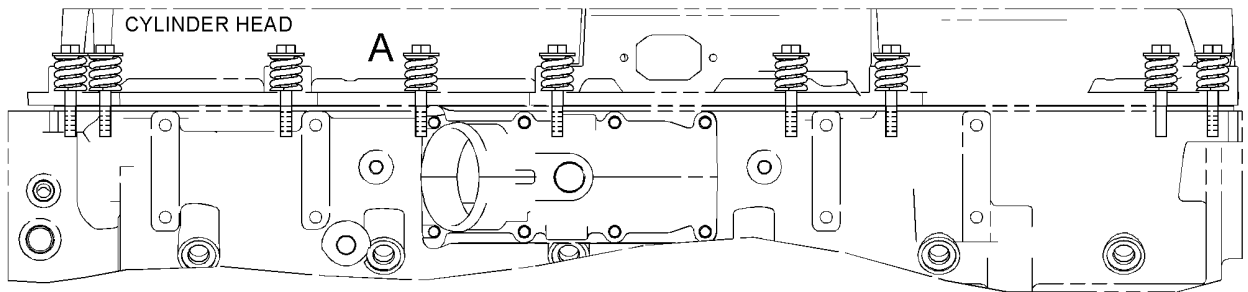
AN ATTACHMENT
TYPE 2

SMCS-1107

i02406493

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE
						PAGE
C	1	1	244-4500	9	SPRING	
CM	2	1	8T-0100	9	BOLT (M8X1.25X60-MM)	
C	3	1	9N-0869	9	WASHER-HARD (8.8X25.5X2-MM THK)	

C-CHANGE FROM PREVIOUS TYPE
M-METRIC PART



GRAPHIC #1

<END>

g01207018

BASIC ENGINE

236-7315 FASTENER GP-VALVE COVER

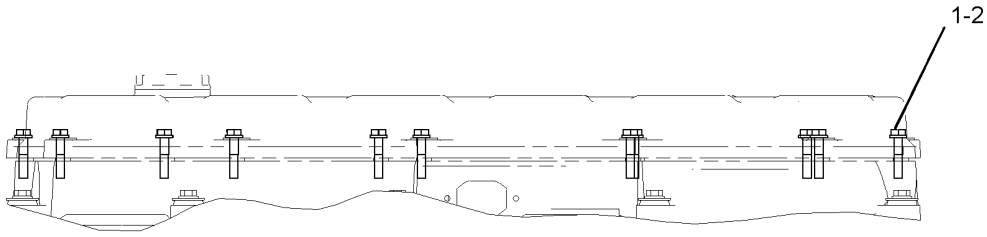
AN ATTACHMENT

SMCS-1107

i02407771

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	099-3649	11	BOLT (M8X1.25X40-MM)						
	2	1	8T-4224	11	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01013698

BASIC ENGINE

239-3311 FASTENER GP-VALVE COVER

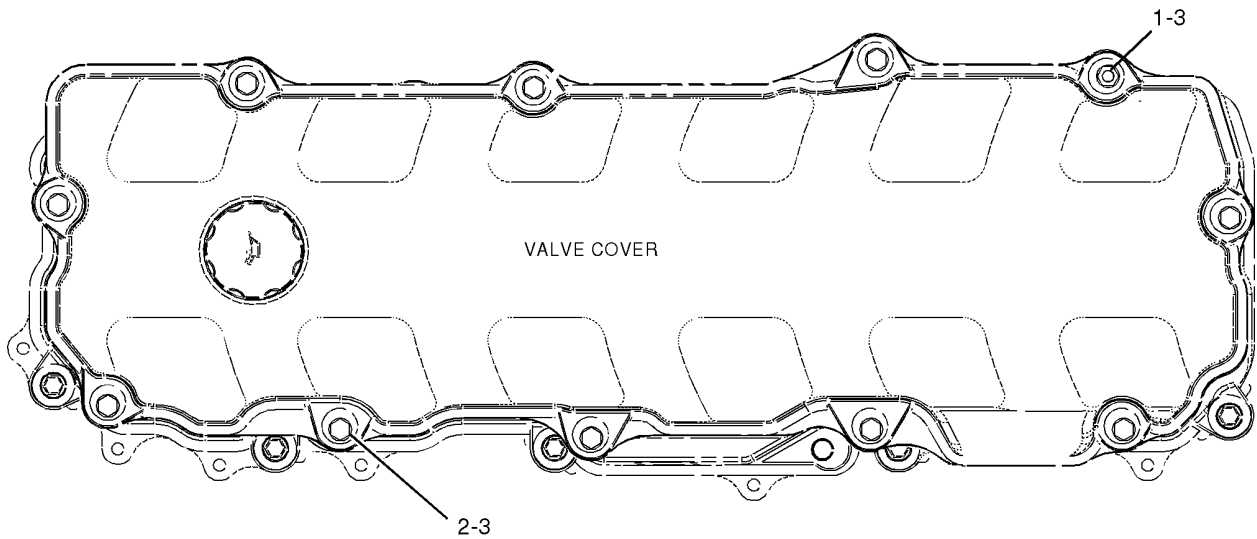
AN ATTACHMENT

SMCS-1107

i02549175

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	162-3148	2	STUD (M8-1.25X15-MM, M8-1.25X22-MM)						
M	2	1	099-3649	9	BOLT (M8X1.25X40-MM)						
	3	1	8T-4224	11	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



TOP VIEW

<END>

GRAPHIC #1

g01007521

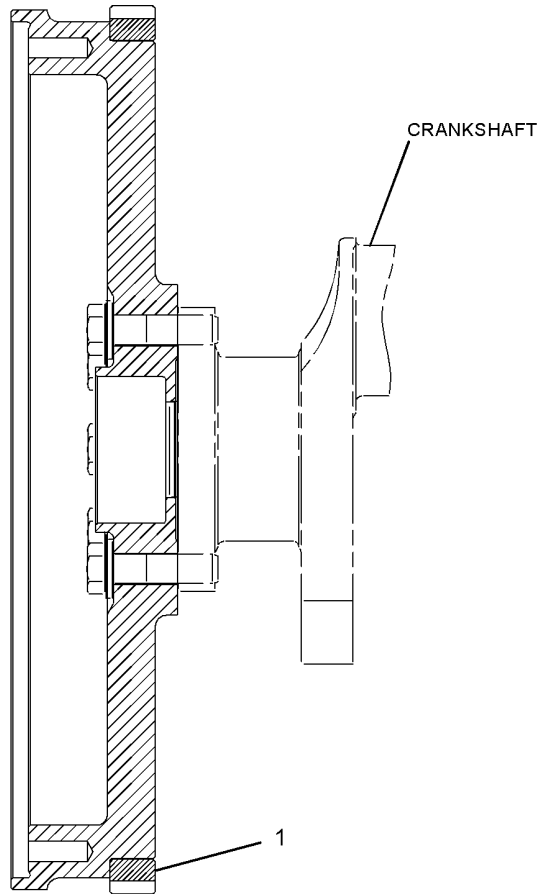
BASIC ENGINE

103-0712 FLYWHEEL AS PART OF 155-6615 FLYWHEEL GP AN ATTACHMENT

SMCS-1156

i02293188

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-2514	1	GEAR (113-TEETH)						



GRAPHIC #1

<END>

g01148051

BASIC ENGINE

145-9112 FLYWHEEL GP

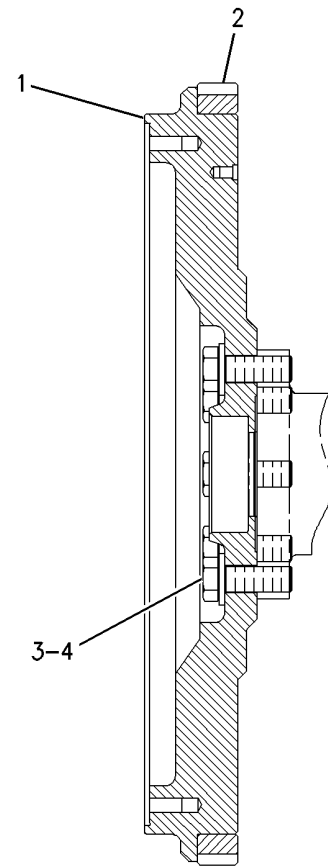
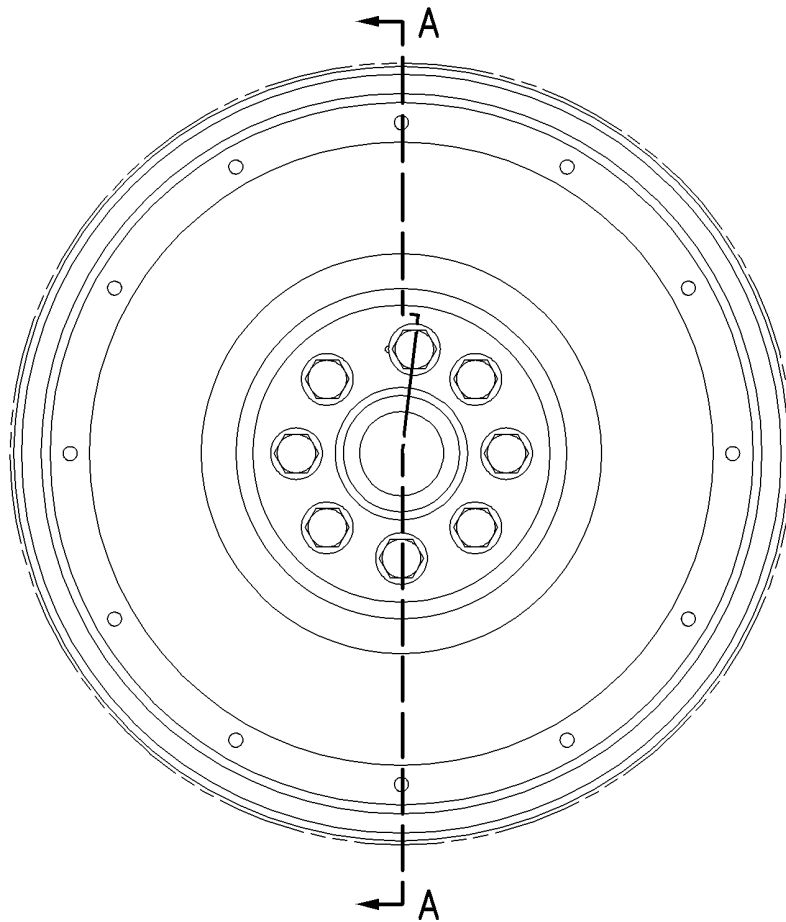
AN ATTACHMENT

SMCS-1156

i02297847

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	144-9553	1	FLYWHEEL AS						
	2	1	4N-2514	1	GEAR (113-TEETH)						
	3	1	5P-8247	8	WASHER-HARD (17X32X3.5-MM THK)						
M	4	1	9X-2021	8	BOLT-LOCKING (M16X2X45-MM)						

M - METRIC PART



SECTION A-A

GRAPHIC #1

<END>

g00796617

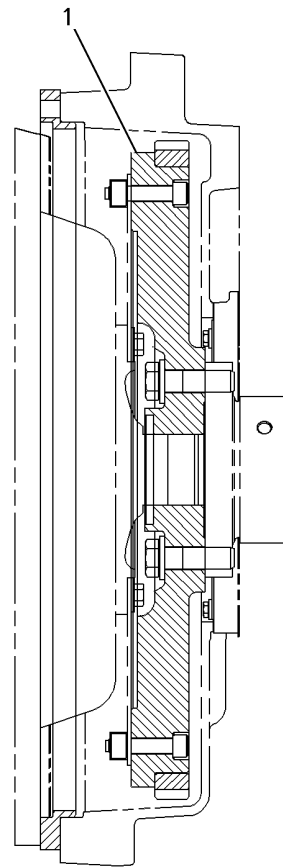
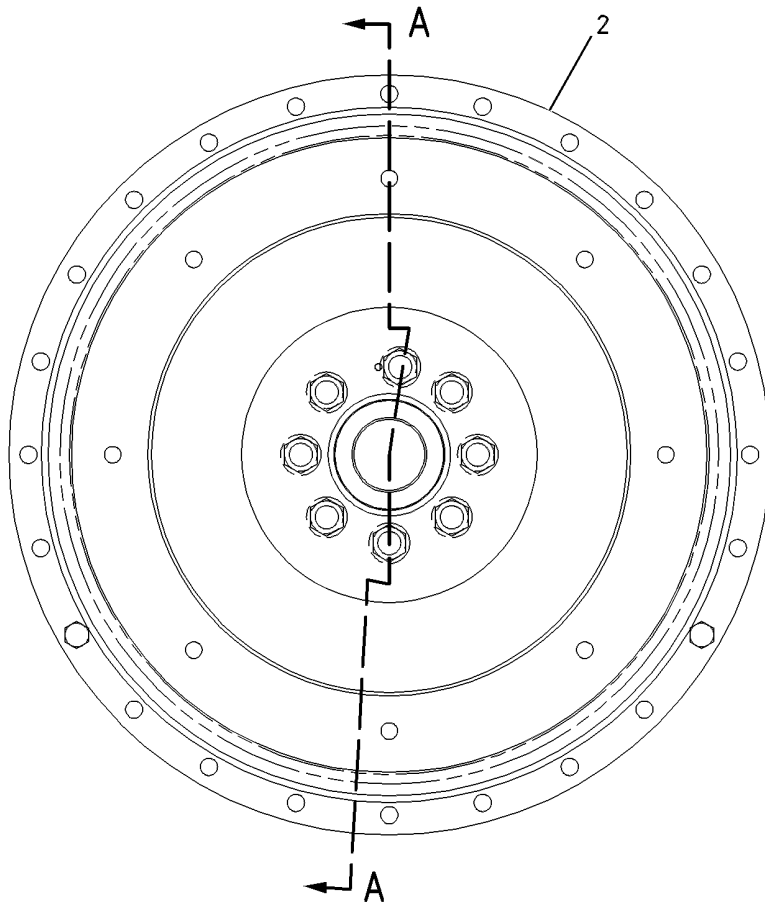
BASIC ENGINE

155-4311 FLYWHEEL GP AN ATTACHMENT

SMCS-1156

i02179783

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	125-1276	1	FLYWHEEL AS						
		1	4N-2514	1	GEAR (113-TEETH)						
	2	1	133-5554	1	ADAPTER-FLYWHEEL HOUSING						



SECTION A-A

GRAPHIC #1

<END>

g00349026

BASIC ENGINE

155-6615 FLYWHEEL GP

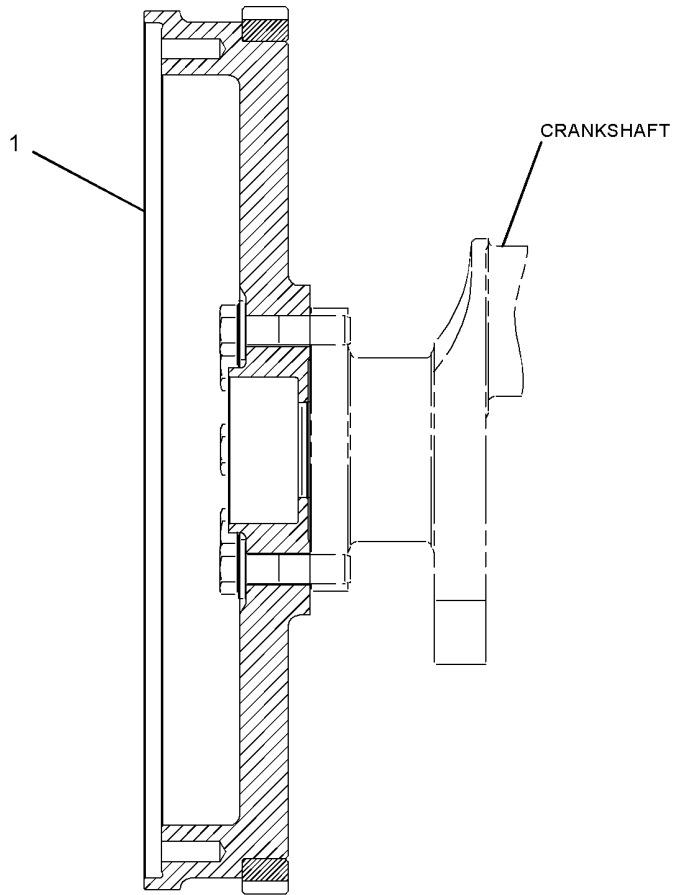
AN ATTACHMENT

SMCS-1156

i02293194

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	103-0712	1	FLYWHEEL AS						98

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01148085

BASIC ENGINE

172-6483 FLYWHEEL GP

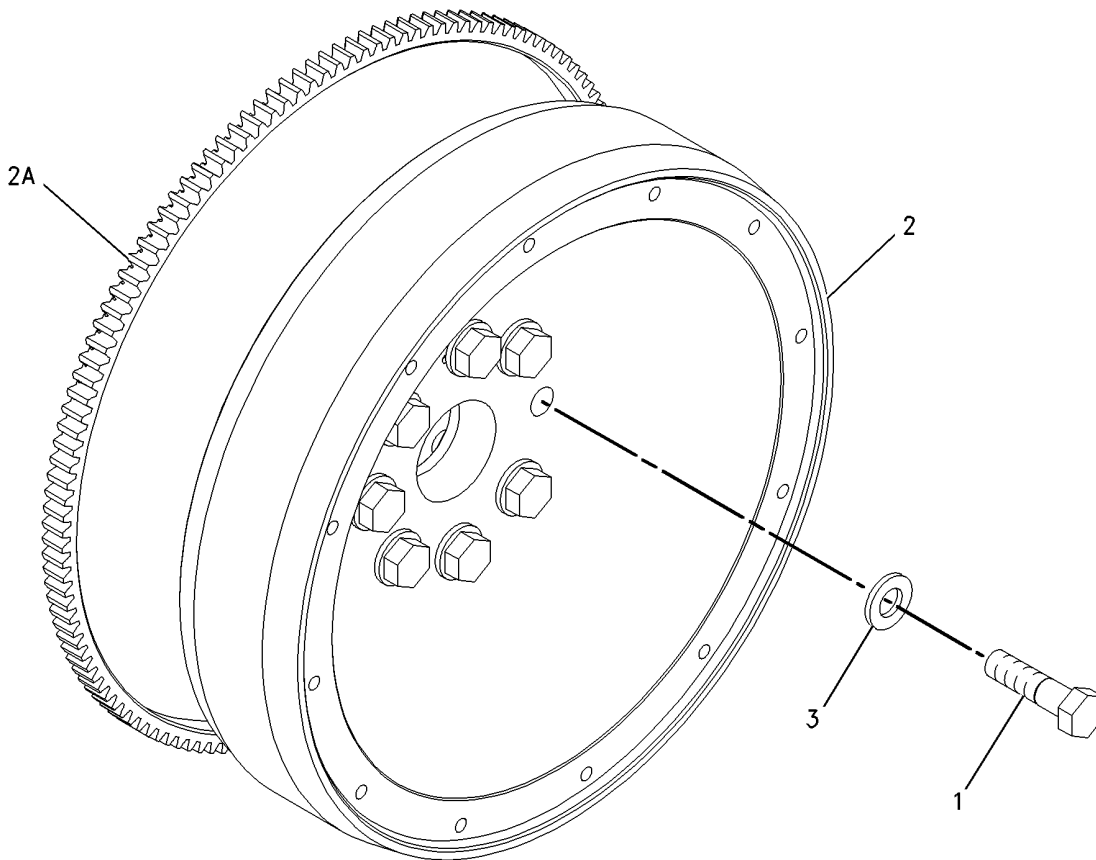
AN ATTACHMENT

SMCS-1156

i02504752

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	103-6169	8	BOLT (M16X2X60-MM)						
	2	1	172-6481	1	FLYWHEEL AS						
	2A	1	163-1387	1	GEAR-FLYWHEEL (134-TEETH)						
	3	1	171-3010	8	WASHER-HARD (M17.5X32X7-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00859355

BASIC ENGINE

192-8815 FLYWHEEL GP

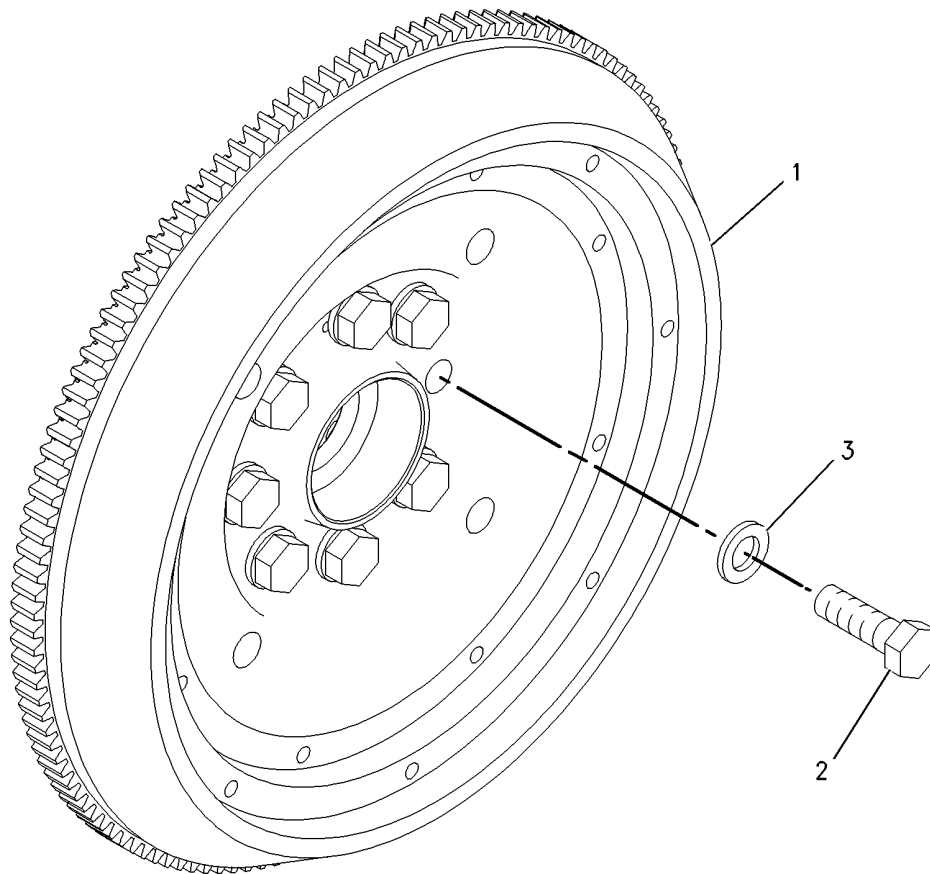
AN ATTACHMENT

SMCS-1156

i02569627

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	192-8813	1	FLYWHEEL AS						
		1	163-1387	1	GEAR-FLYWHEEL (134-TEETH)						
M	2	1	9X-2057	8	BOLT (M16X2X50-MM)						
	3	1	9X-8268	8	WASHER (17.5X30X3.5-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00754396

BASIC ENGINE

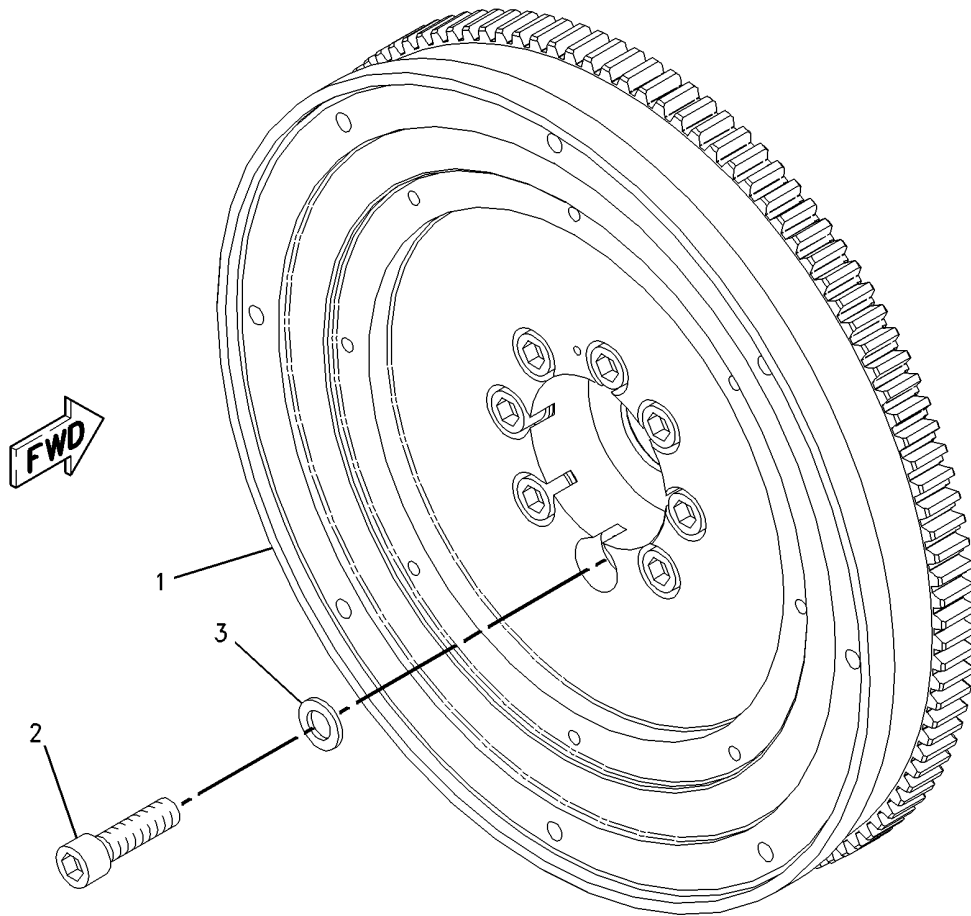
200-0875 FLYWHEEL GP

AN ATTACHMENT

SMCS-1156

i02426691

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	199-1368	1	FLYWHEEL AS						
		1	4N-2514	1	GEAR (113-TEETH)						
	2	1	203-1074	8	BOLT-SOCKET HEAD (M16X2X55-MM)						
	3	1	2S-5658	8	WASHER-HARD (17X29X3-MM THK)						



GRAPHIC #1

<END>

g00783536

BASIC ENGINE

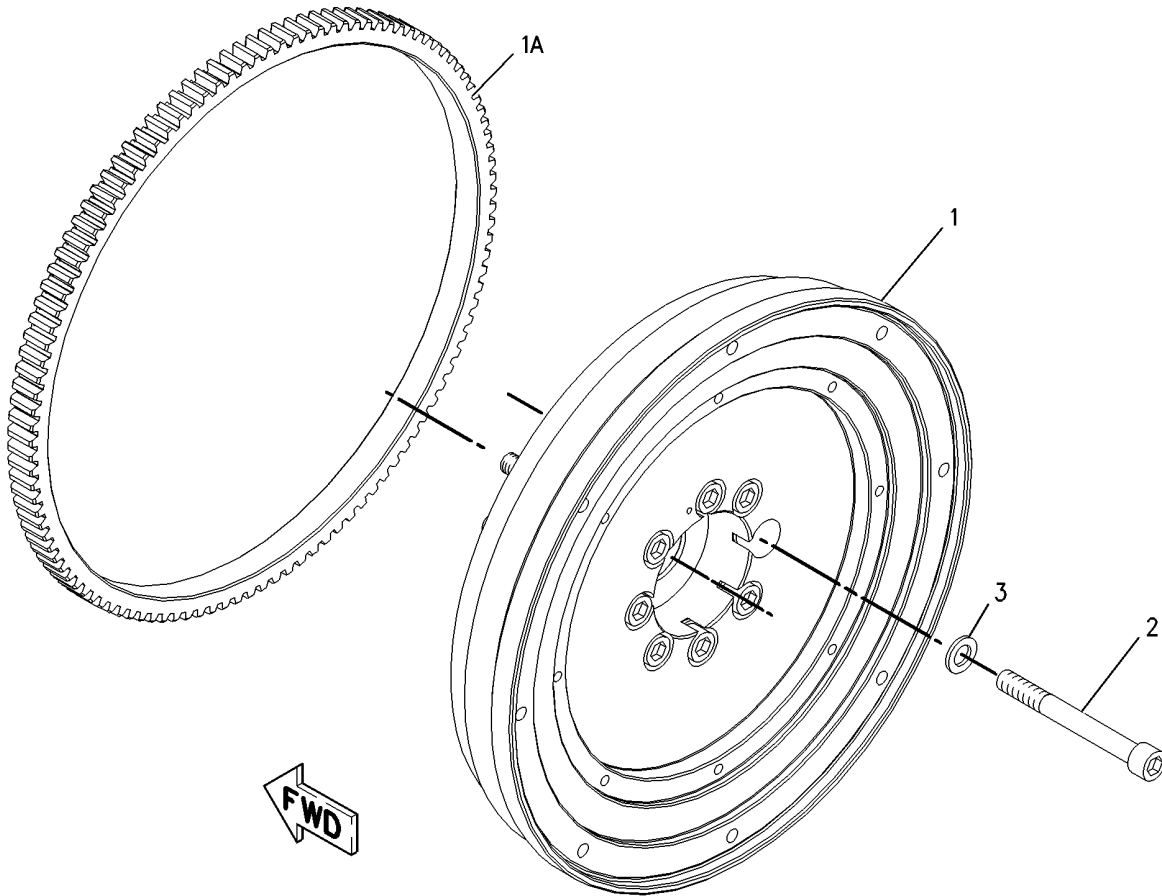
217-8206 FLYWHEEL GP

AN ATTACHMENT

SMCS-1156

i02505570

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	199-1368	1	FLYWHEEL AS						
	1A	1	4N-2514	1	GEAR (113-TEETH)						
	2	1	217-8205	8	BOLT-SOCKET HEAD (M16X2X140-MM)						
	3	1	2S-5658	8	WASHER-HARD (17X29X3-MM THK)						



GRAPHIC #1

<END>

g00869999

BASIC ENGINE

205-1321 GEAR GP-FRONT

PART OF 287-3653 ENGINE AR-CORE

SMCS-1151, 1162, 1206

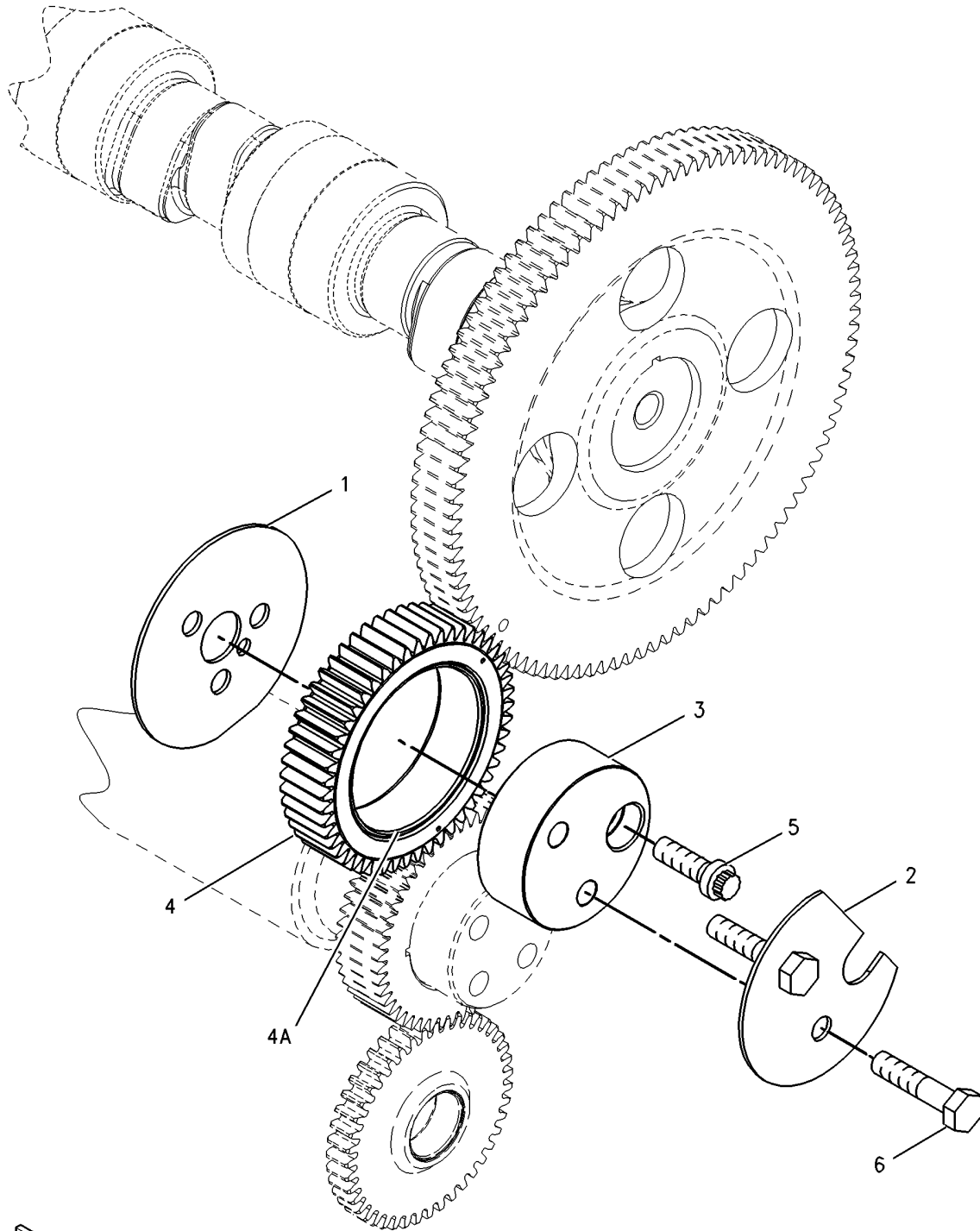
i01686025

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	113-6069	1	PLATE-THRUST						
	2	1	115-4219	1	PLATE-RETAINING						
	3	1	200-4495	1	SHAFT-IDLER						
	4	1	205-1320	1	GEAR AS-IDLER (50 TEETH)						
	4A	1	115-4072	1	BEARING						
M	5	1	136-4183	1	BOLT-12 POINT HEAD (M10X1.5X30MM)						
M	6	1	6V-5843	2	BOLT (M10X1.50X45MM)						
M-METRIC PART											

BASIC ENGINE

205-1321 GEAR GP-FRONT (contd.)

i01686025



GRAPHIC #1

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g00870175

BASIC ENGINE

215-1818 GEAR GP-REAR

AN ATTACHMENT

SMCS-1204

i02505569

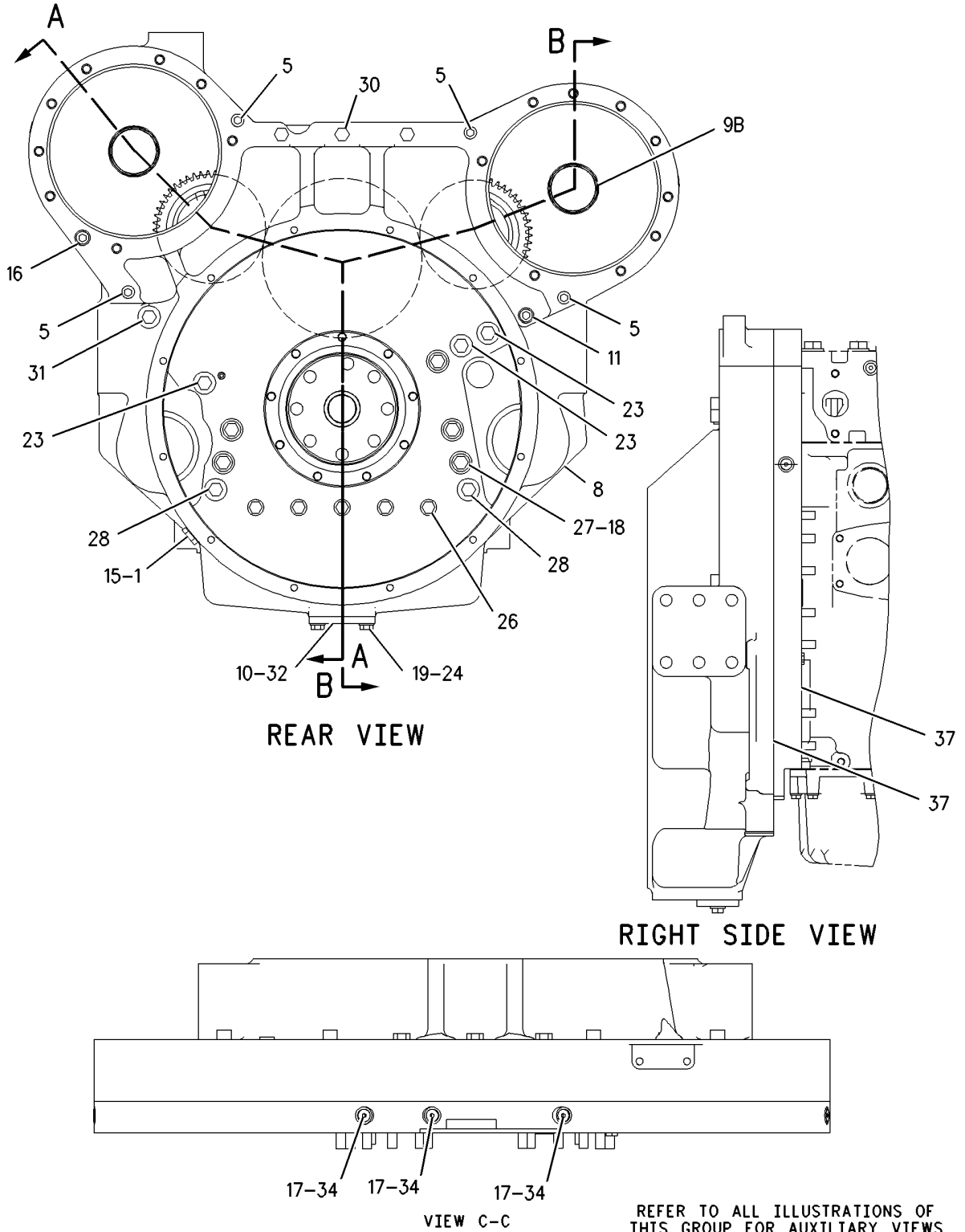
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	5F-0304	1	PLUG (DRAIN) (REAR GEAR HOUSING)	
	2	2	5P-4141	6	BOLT-SELF-LOCKING (1/2-13X1.75-IN)	
	3	2	226-4757	1	SEAL GP-CRANKSHAFT	
	3A	2	7C-1728	1	SEAL-CRANKSHAFT (REAR)	
	3B	2	107-6280	1	SEAL-O-RING	
M	4	2	6V-8214	9	BOLT (M6X1X20-MM)	
M	5	1	095-9232	4	BOLT-SOCKET HEAD (M12X1.75X95-MM)	
	7	2	153-1325	3	SHAFT-IDLER GEAR	
	8	1	177-7463	1	HOUSING-FLYWHEEL	
	9	2	213-8095	1	PLATE AS	
	9A	2	7N-5683	2	DOWEL	
	9B	1	8M-9315	2	BEARING-SLEEVE	
	10	1	061-9455	1	SEAL-O-RING	
M	11	1	108-1782	1	BOLT-SOCKET HEAD (M12X1.75X90-MM)	
	12	2	147-3723	2	GEAR AS-IDLER (49-TEETH)	
					(EACH INCLUDES)	
	12A	2	152-7254	1	BEARING-SLEEVE	
	13	2	151-1339	1	GEAR AS-IDLER (70-TEETH)	
	13A	2	152-7254	1	BEARING-SLEEVE	
	14	2	178-6279	1	GEAR (63-TEETH)	
	15	1	2A-1162	1	GASKET	
M	16	1	3E-6910	1	BOLT-SOCKET HEAD (M12X1.75X70-MM)	
	17	1,2	5P-7814	6	SEAL-O-RING	
	18	1,2	5P-8245	16	WASHER-HARD (13.5X25.5X3-MM THK)	
M	19	1	6V-4248	2	BOLT (M10X1.5X25-MM)	
	20	2	6V-5048	1	SEAL-O-RING	
	21	2	6V-5134	1	SEAL-O-RING	
M	22	2	6V-5684	9	BOLT (M12X1.75X45-MM)	
M	23	1	6V-5696	3	BOLT (M12X1.75X80-MM)	
	24	1	6V-5839	2	WASHER (11X21X2.5-MM THK)	
M	25	2	6V-7673	2	BOLT (M12X1.75X50-MM)	
M	26	1	6V-7981	5	BOLT (M10X1.5X70-MM)	
M	27	1	6V-8004	5	BOLT (M12X1.75X120-MM)	
M	28	1	6V-8336	2	BOLT (M12X1.75X70-MM)	
	29	2	7X-7730	1	PLUG-PIPE	
M	30	1	8T-0106	3	BOLT (M12X1.75X100-MM)	
M	31	1	8T-6991	1	BOLT (M12X1.75X180-MM)	
	32	1	9M-1164	1	COVER	
	33	2	9S-4182	1	PLUG (STRAIGHT THREAD O-RING)	
	34	1,2	9S-8003	6	PLUG	
	35	2	9X-4576	1	SEAL-O-RING	
	36	2	9X-8267	9	WASHER (6.6X12X2-MM THK)	
B	37	1	1U-8846		SEALANT-GASKET	

B-USE AS REQUIRED
M-METRIC PART

BASIC ENGINE

215-1818 GEAR GP-REAR (contd.)

i02505569

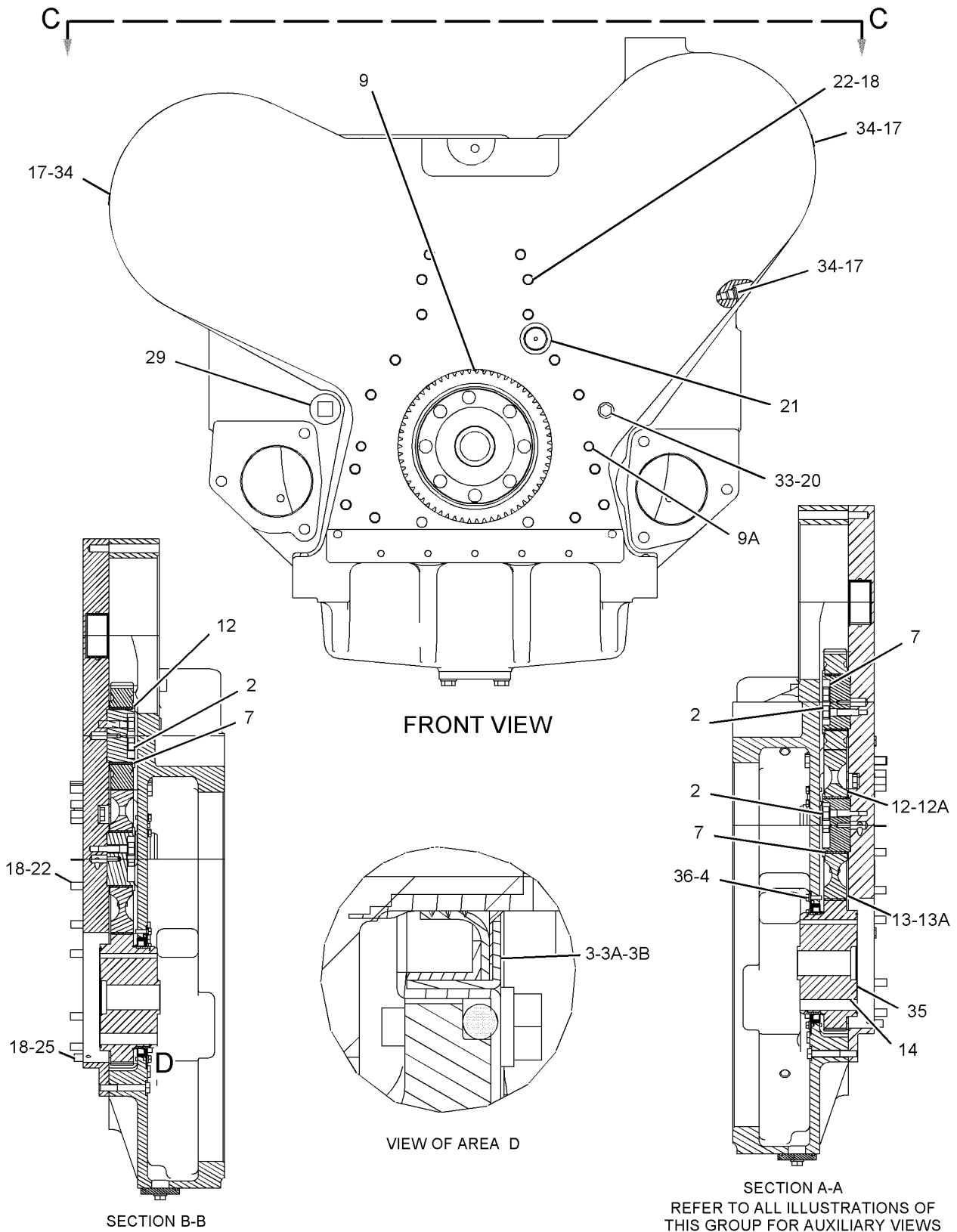


REFER TO ALL ILLUSTRATIONS OF THIS GROUP FOR AUXILIARY VIEWS

BASIC ENGINE

215-1818 GEAR GP-REAR (contd.)

i02505569



SECTION A-A
REFER TO ALL ILLUSTRATIONS OF
THIS GROUP FOR AUXILIARY VIEWS

GRAPHIC #2

<END>

g01110120

BASIC ENGINE

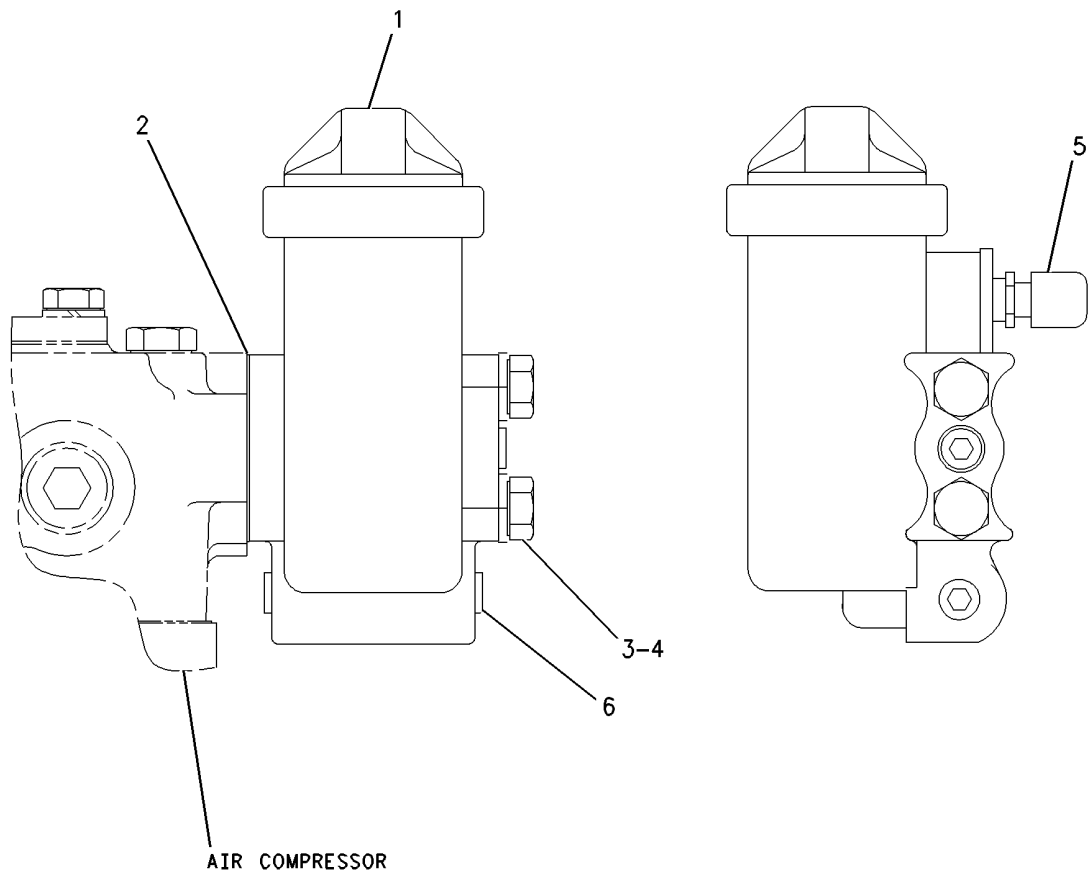
7E-4832 GOVERNOR GP-AIR COMPRESSOR

AN ATTACHMENT

SMCS-1804

i01653507

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-9680	1	GOVERNOR GP-AIR COMPRESSOR						
		1	2S-2923	1	COVER						
		1	9M-0402	1	KIT-GOVERNOR OVERHAUL (AIR COMPRESSOR)						
2		1	6L-1883	1	GASKET						
3		1	1D-4540	2	BOLT (5/16-18X2.75-IN)						
4		1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
5		1	5F-5434	1	VALVE AS-RELIEF						
6		1	9F-2247	5	PLUG-PIPE						



GRAPHIC #1

<END>

g00783763

BASIC ENGINE

155-7935 HOUSING GP-FLYWHEEL

AN ATTACHMENT

SMCS-1157

i02294214

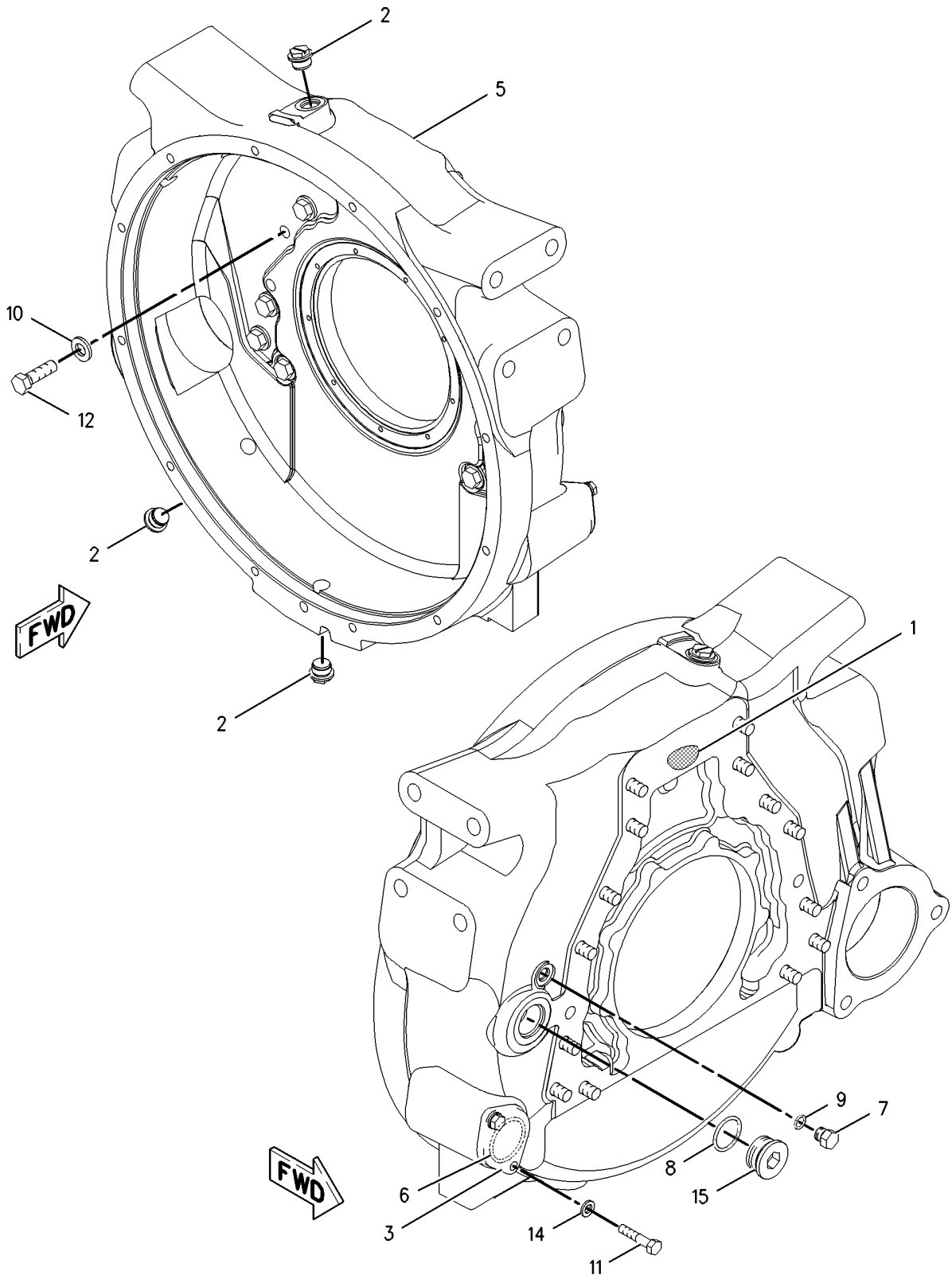
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
B	1	1	1U-8846		SEALANT-GASKET						
	2	1	1P-1669	3	PLUG-SEAL						
	3	1	7C-1445	1	COVER						
	5	1	228-4740	1	HOUSING-FLYWHEEL						
	6	1	061-9455	1	SEAL-O-RING						
	7	1	3K-8460	1	PLUG						
	8	1	5P-7701	1	SEAL-O-RING						
	9	1	5P-7814	1	SEAL-O-RING						
	10	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
M	11	1	6V-5219	2	BOLT (M8X1.25X40-MM)						
M	12	1	6V-8197	14	BOLT (M12X1.75X40-MM)						
	14	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	15	1	9S-9334	1	PLUG						

B-USE AS REQUIRED
M-METRIC PART

BASIC ENGINE

155-7935 HOUSING GP-FLYWHEEL (contd.)

i02294214



GRAPHIC #1

<END>

g00956544

BASIC ENGINE

187-4087 HOUSING GP-FLYWHEEL

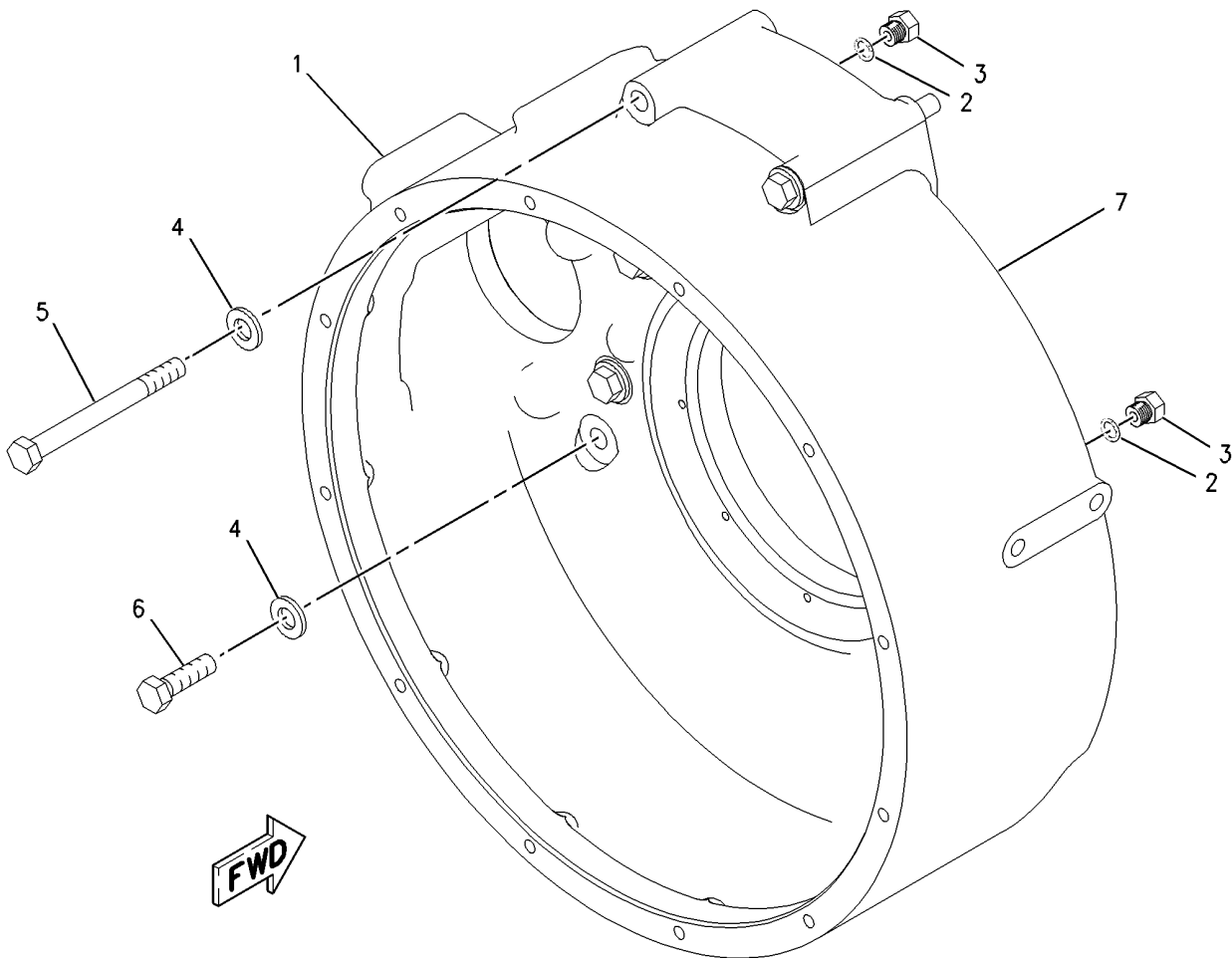
AN ATTACHMENT

SMCS-1157

i02504772

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-4088	1	HOUSING-FLYWHEEL						
	2	1	1J-9671	2	SEAL-O-RING						
	3	1	3K-8460	2	PLUG (STRAIGHT THREAD O-RING)						
	4	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
M	5	1	6V-8004	2	BOLT (M12X1.75X120-MM)						
M	6	1	6V-8197	12	BOLT (M12X1.75X40-MM)						
B	7	1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00939289

BASIC ENGINE

189-9374 HOUSING GP-FLYWHEEL

AN ATTACHMENT

SMCS-1157

i02512570

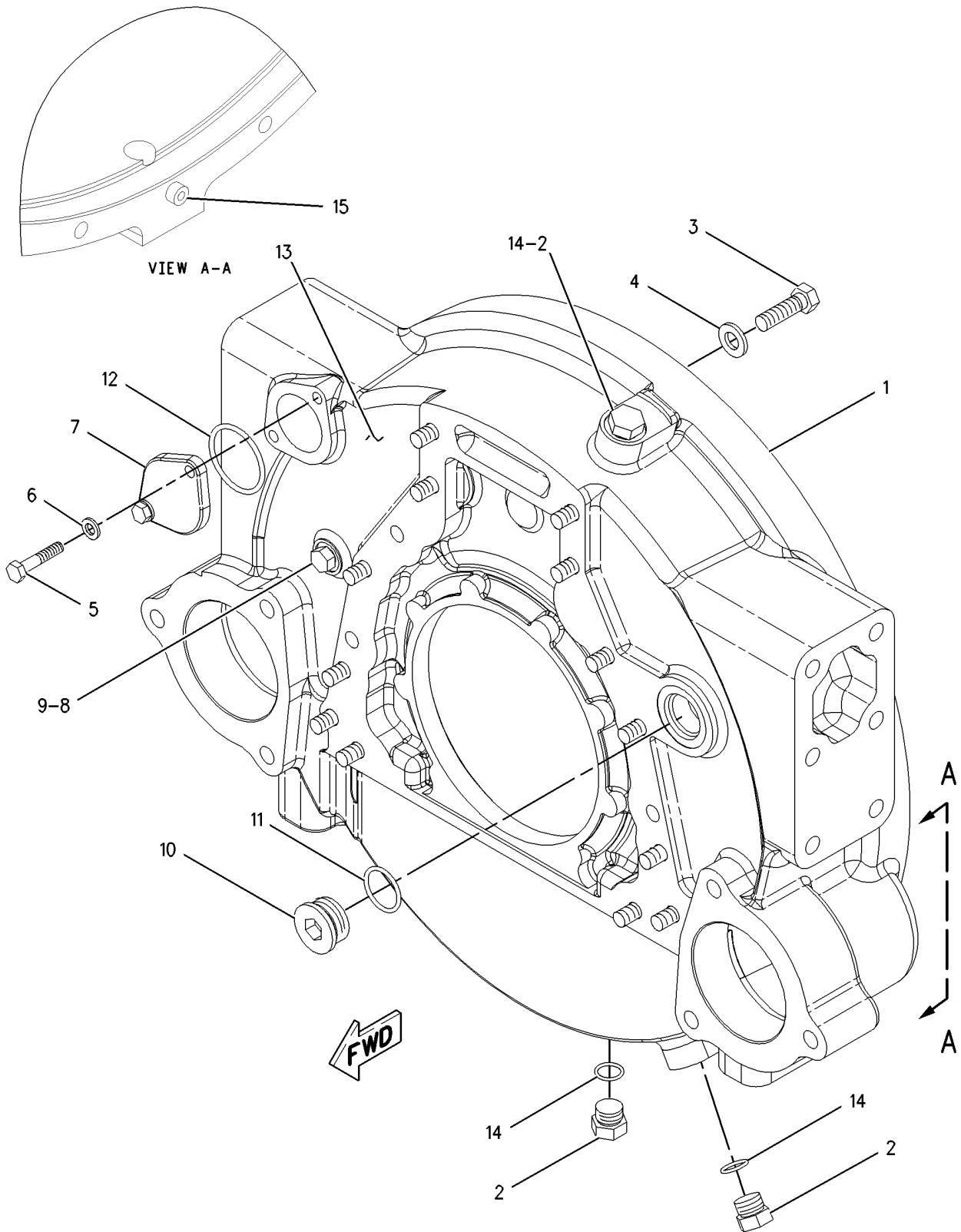
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	233-9770	1	HOUSING-FLYWHEEL						
	2	1	9S-4185	3	PLUG						
CM	3	1	6V-8197	14	BOLT (M12X1.75X40-MM)						
C	4	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
M	5	1	6V-5219	2	BOLT (M8X1.25X40-MM)						
	6	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	7	1	7C-1445	1	COVER						
	8	1	3K-8460	1	PLUG						
	9	1	5P-7814	1	SEAL-O-RING						
	10	1	9S-9334	1	PLUG						
	11	1	5P-7701	1	SEAL-O-RING						
	12	1	061-9455	1	SEAL-O-RING						
B	13	1	8C-8422		SEALANT						
	14	1	8L-2786	3	SEAL-O-RING						
	15	1	106-1565	1	PLUG						

B-USE AS REQUIRED
 C-CHANGE FROM PREVIOUS TYPE
 M-METRIC PART

BASIC ENGINE

189-9374 HOUSING GP-FLYWHEEL (contd.)

i02512570



GRAPHIC #1

<END>

g01007773

BASIC ENGINE

222-3991 HOUSING GP-FLYWHEEL

AN ATTACHMENT

SMCS-1157

i02292864

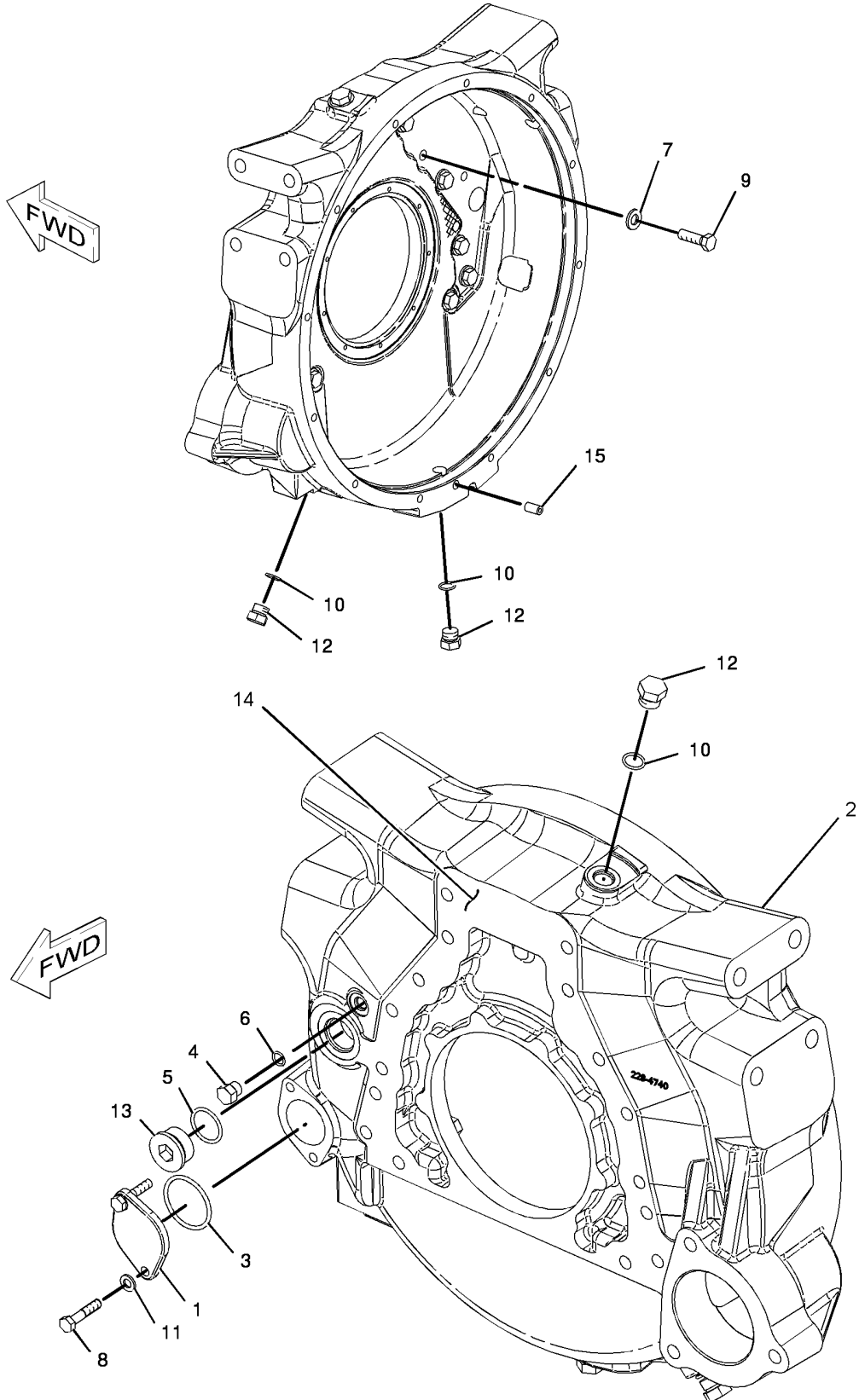
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-1445	1	COVER						
	2	1	228-4740	1	HOUSING-FLYWHEEL						
	3	1	061-9455	1	SEAL-O-RING						
	4	1	3K-8460	1	PLUG						
	5	1	5P-7701	1	SEAL-O-RING						
	6	1	5P-7814	1	SEAL-O-RING						
	7	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)						
M	8	1	6V-5219	2	BOLT (M8X1.25X40-MM)						
M	9	1	6V-8197	14	BOLT (M12X1.75X40-MM)						
	10	1	8L-2786	3	SEAL-O-RING						
	11	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	12	1	9S-4185	3	PLUG (FLYWHEEL HOUSING DRAIN)						
	13	1	9S-9334	1	PLUG						
B	14	1	1U-8846		SEALANT-GASKET						
	15	1	106-1565	1	PLUG						

B-USE AS REQUIRED
M-METRIC PART

BASIC ENGINE

222-3991 HOUSING GP-FLYWHEEL (contd.)

i02292864



GRAPHIC #1

<END>

g01005873

BASIC ENGINE

234-1842 HOUSING GP-FLYWHEEL

FOR USE WITH C9 TIER 111 IND ENGINE
AN ATTACHMENT

SMCS-1157

i02360346

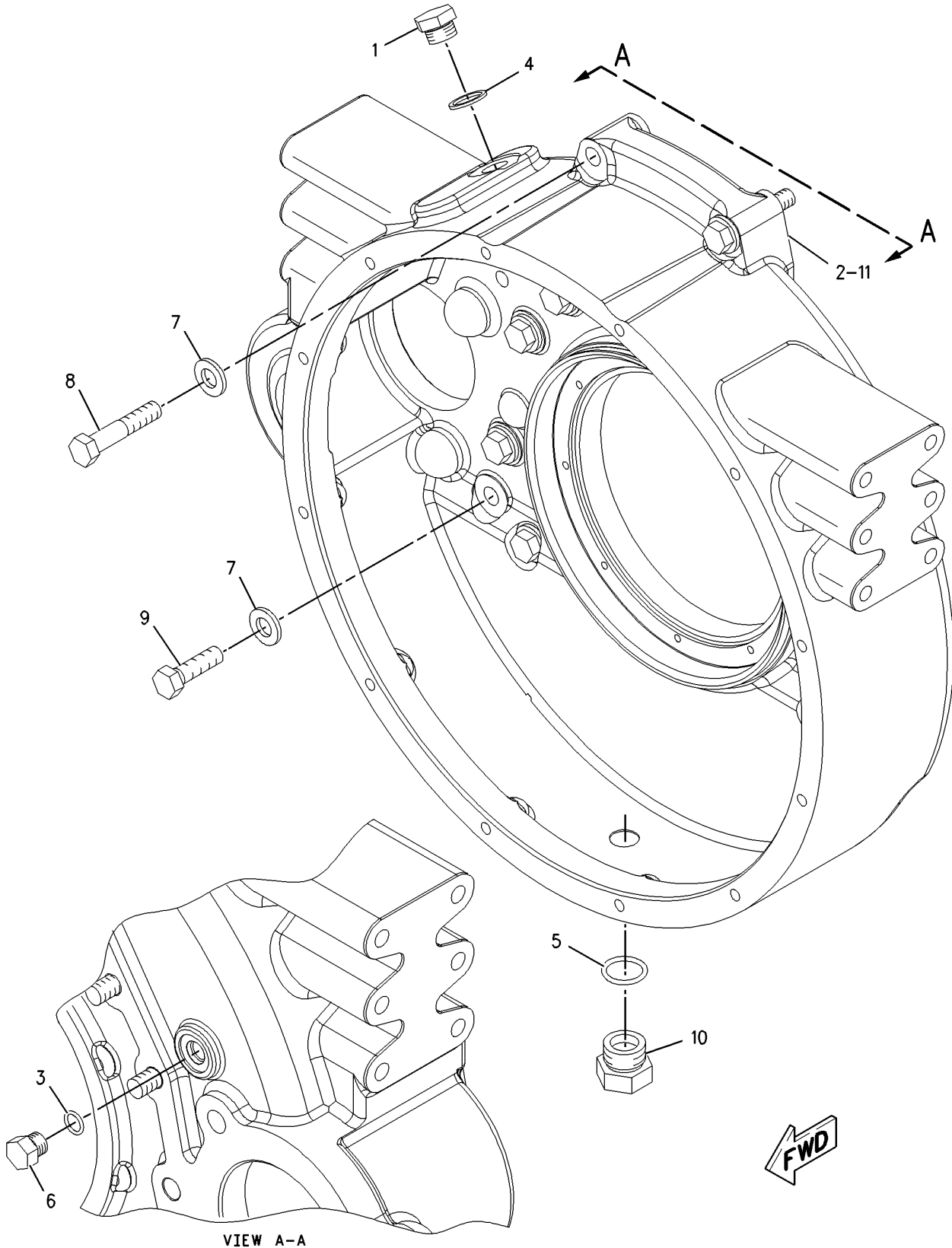
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	2A-1912	1	PLUG-DRAIN	
	2	1	159-6010	1	HOUSING-FLYWHEEL	
	3	1	1J-9671	1	SEAL-O-RING	
	4	1	2A-1913	1	GASKET-PLUG	
	5	1	3D-2824	1	SEAL-O-RING	
	6	1	3K-8460	1	PLUG	
	7	1	5P-8245	14	WASHER-HARD (13.5X25.5X3-MM THK)	
M	8	1	6V-3823	2	BOLT (M12X1.75X60-MM)	
M	9	1	6V-8197	12	BOLT (M12X1.75X40-MM)	
	10	1	9S-4183	1	PLUG-O RING (STRAIGHT THREAD O-RING)	
	11	1	1U-8846	1	SEALANT-GASKET	

M-METRIC PART

BASIC ENGINE

234-1842 HOUSING GP-FLYWHEEL (contd.)

i02360346



GRAPHIC #1

<END>

g00991082

BASIC ENGINE

209-0758 HOUSING GP-FRONT

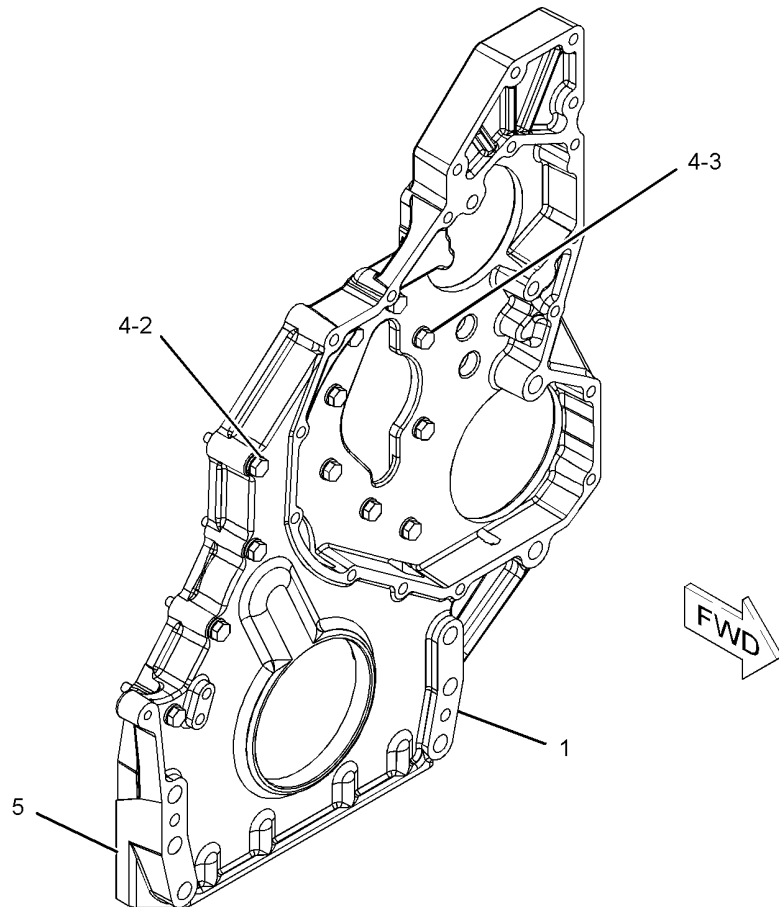
PART OF 287-3653 ENGINE AR-CORE

SMCS-1151, 1162, 1206

i02280886

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	245-3261	1	HOUSING-FRONT						
M	2	1	6V-3918	4	BOLT (M8X1.25X50-MM)						
M	3	1	6V-5217	8	BOLT (M8X1.25X20-MM)						
	4	1	9M-1974	12	WASHER-HARD (8.8X16X2-MM THK)						
B	5	1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g01141811

BASIC ENGINE

169-3113 LIFTING GP-ENGINE

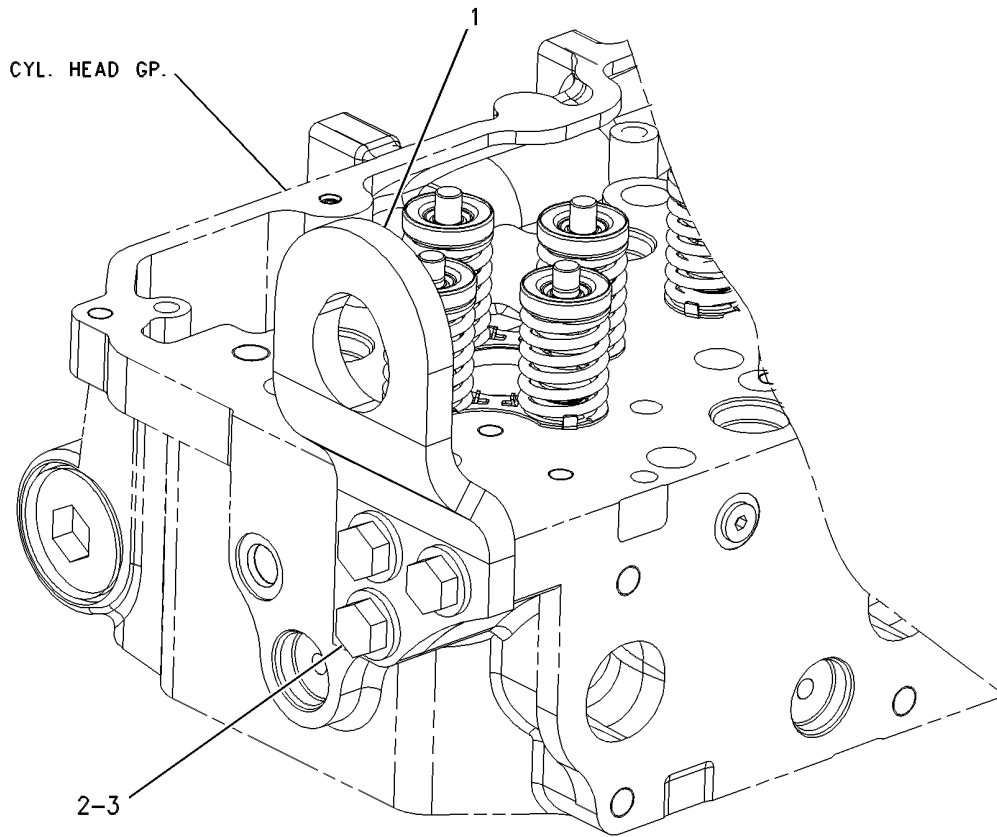
REAR
AN ATTACHMENT

SMCS-1122

i02293225

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	166-1785	1	PLATE-LIFTING						
	2	1	5P-8245	3	WASHER-HARD (13.5X25.5X3-MM THK)						
M	3	1	6V-8675	3	BOLT (M12X1.75X35-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00626065

BASIC ENGINE

193-3293 LIFTING GP-ENGINE

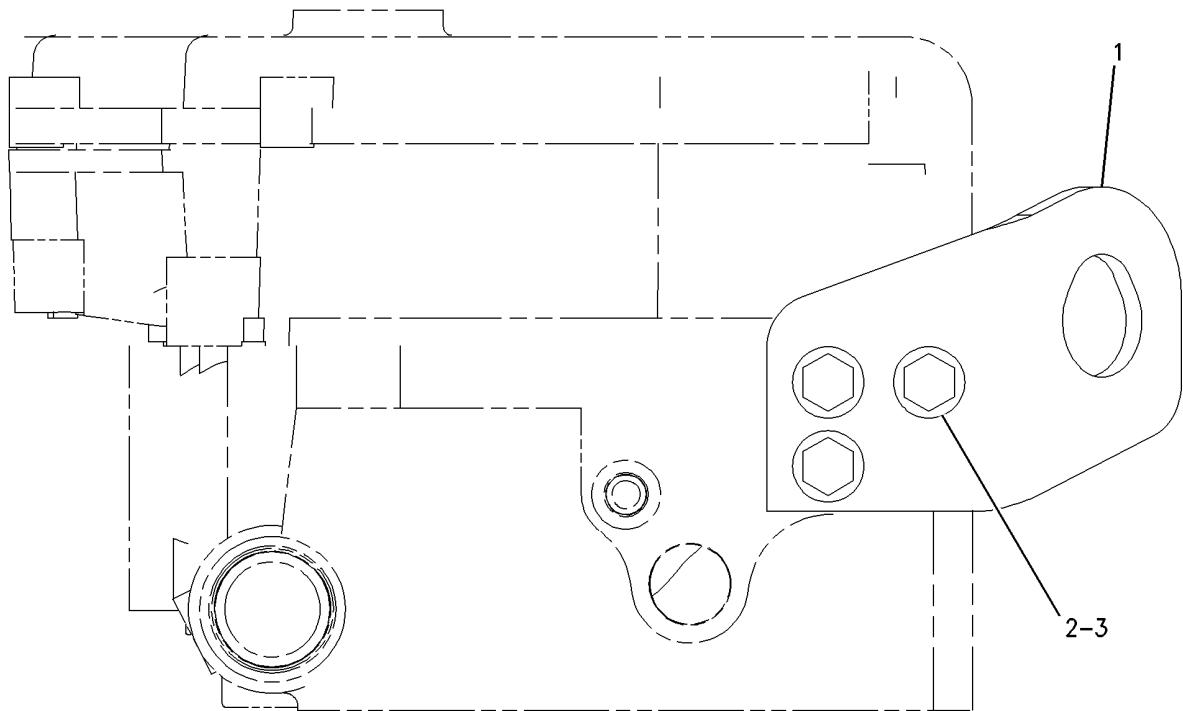
REAR
AN ATTACHMENT

SMCS-1122

i02294228

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	193-3294	1	PLATE-LIFT EYE	
	2	1	5P-8245	3	WASHER-HARD (13.5X25.5X3-MM THK)	
M	3	1	6V-3668	3	BOLT (M12X1.75X30-MM)	

M-METRIC PART



REAR VIEW

GRAPHIC #1

<END>

g00759226

BASIC ENGINE

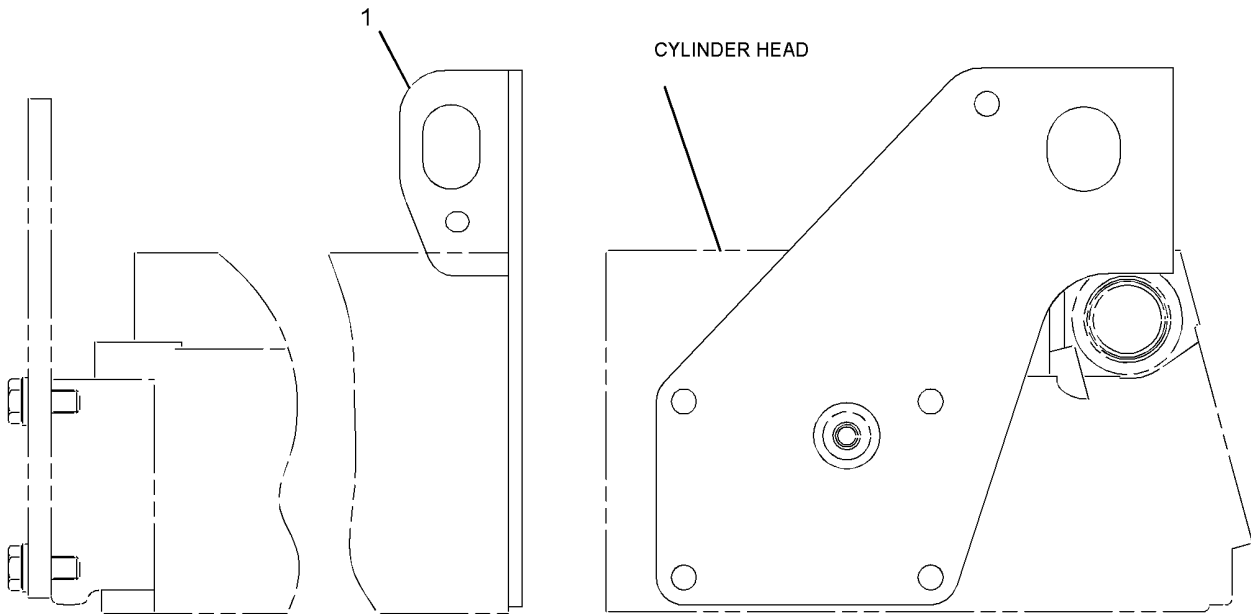
217-4624 LIFTING GP-ENGINE

FRONT
AN ATTACHMENT

SMCS-1122

i02299545

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	228-4766	1	PLATE-LIFTING						



RIGHT SIDE
VIEW

FRONT
VIEW

GRAPHIC #1

<END>

g01151620

BASIC ENGINE

166-1763 LINES GP-AIR COMPRESSOR

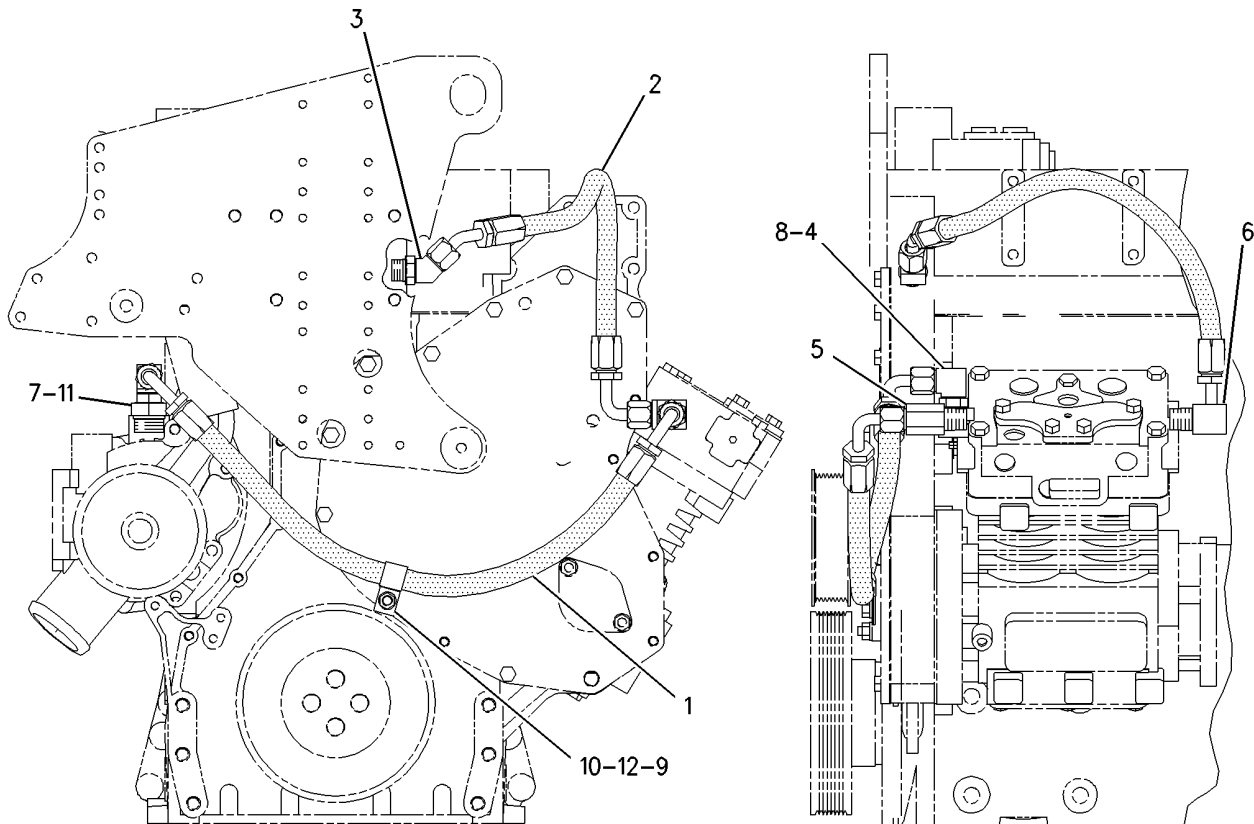
AN ATTACHMENT

SMCS-1803, 5502

i02293214

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	118-0284	1	HOSE AS						
I	2	1	204-4298	1	HOSE AS (END)						
	3	1	030-7943	1	ELBOW						
	4	1	118-4728	1	ELBOW						
	5	1	118-0280	1	COUPLING (37-DEG)						
	6	1	2N-3378	1	ELBOW-FLARED (FLARED)						
	7	1	3D-2824	1	SEAL-O-RING						
	8	1	3K-0360	2	SEAL-O-RING						
M	9	1	5C-7261	1	NUT (M8X1.25-THD)						
	10	1	6D-4246	1	CLIP						
	11	1	6V-1722	1	ADAPTER-O-RING						
	12	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						

I-REFER TO HYDRAULIC INFORMATION SYSTEM
M-METRIC PART



FRONT VIEW

LEFT SIDE VIEW

GRAPHIC #1

<END>

g00786930

BASIC ENGINE

201-9767 LINES GP-AIR COMPRESSOR

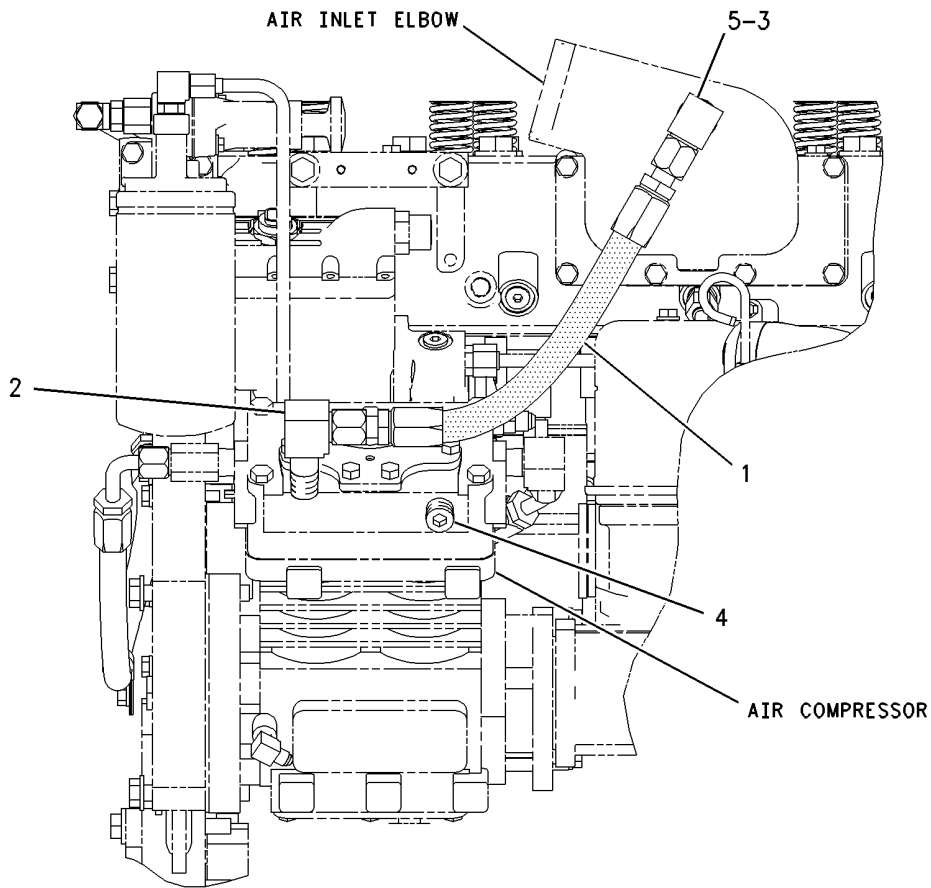
AN ATTACHMENT

SMCS-1803, 5502

i02294221

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	149-0763	1	HOSE AS						
	2	1	001-6936	1	ELBOW						
	3	1	103-4675	1	ELBOW						
	4	1	141-1546	1	PLUG-PIPE						
	5	1	3K-0360	1	SEAL-O-RING						

I-REFER TO HYDRAULIC INFORMATION SYSTEM



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00786610

BASIC ENGINE

253-7176 MOUNTING GP-ALTERNATOR

S/N: MBD1-1449

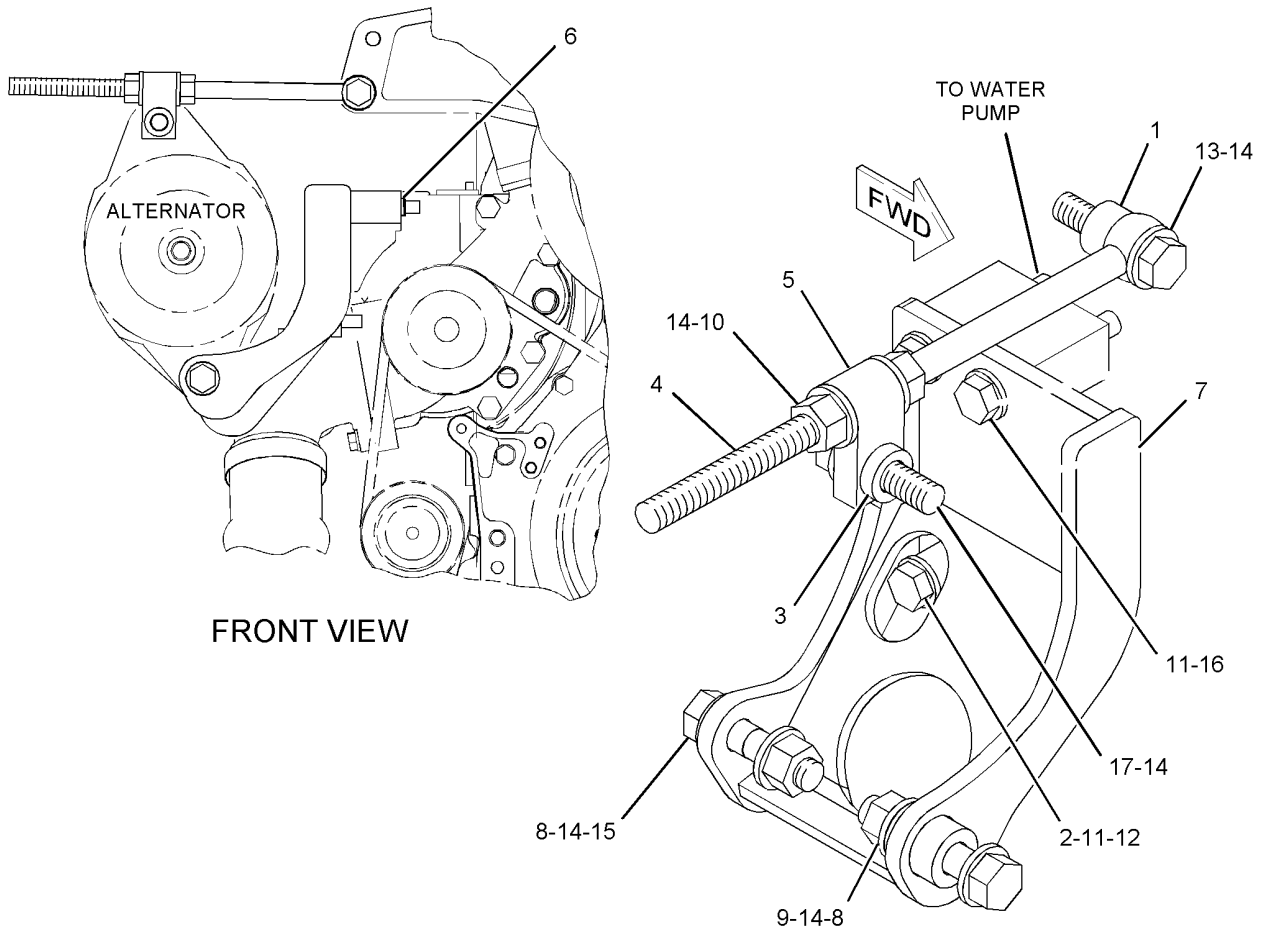
FOR USE WITH TRUCK WATER PUMP, 194-1093-PAGE 132
AN ATTACHMENT

SMCS-1154, 1405

i02252229

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 (0.5X0.875X0.5-IN THK)						
	2	1	2B-0941	1	SPACER (10.5X19X19-MM THK)						
	3	1	3J-4278	1	SPACER (13.5X22.2X6.5-MM THK)						
	4	1	9L-5134	1	ROD						
	5	1	9L-6329	1	BLOCK						
	6	1	211-2101	2	SLEEVE						
	7	1	253-7177	1	BRACKET AS						
	8	1	6V-8188	2	NUT (1/2-13-THD)						
	9	1	7X-0325	1	BOLT (1/2-13X2.5-IN)						
	10	1	7X-3374	2	NUT-FULL (1/2-20-THD)						
	11	1	8T-4121	3	WASHER-HARD (11X21X2.5-MM THK)						
M	12	1	8T-4182	1	BOLT (M10X1.5X45-MM)						
M	13	1	8T-4194	1	BOLT (M12X1.75X50-MM)						
	14	1	8T-4223	8	WASHER-HARD (13.5X25.5X3-MM THK)						
	15	1	8T-4835	1	BOLT (1/2-13X2-IN)						
M	16	1	8T-5005	2	BOLT (M10X1.5X70-MM)						
	17	1	8T-8919	1	BOLT (1/2-13X1.75-IN)						

M-METRIC PART



GRAPHIC #1

<END>

g01134774

BASIC ENGINE

253-7176 MOUNTING GP-ALTERNATOR

S/N: MBD1450-UP

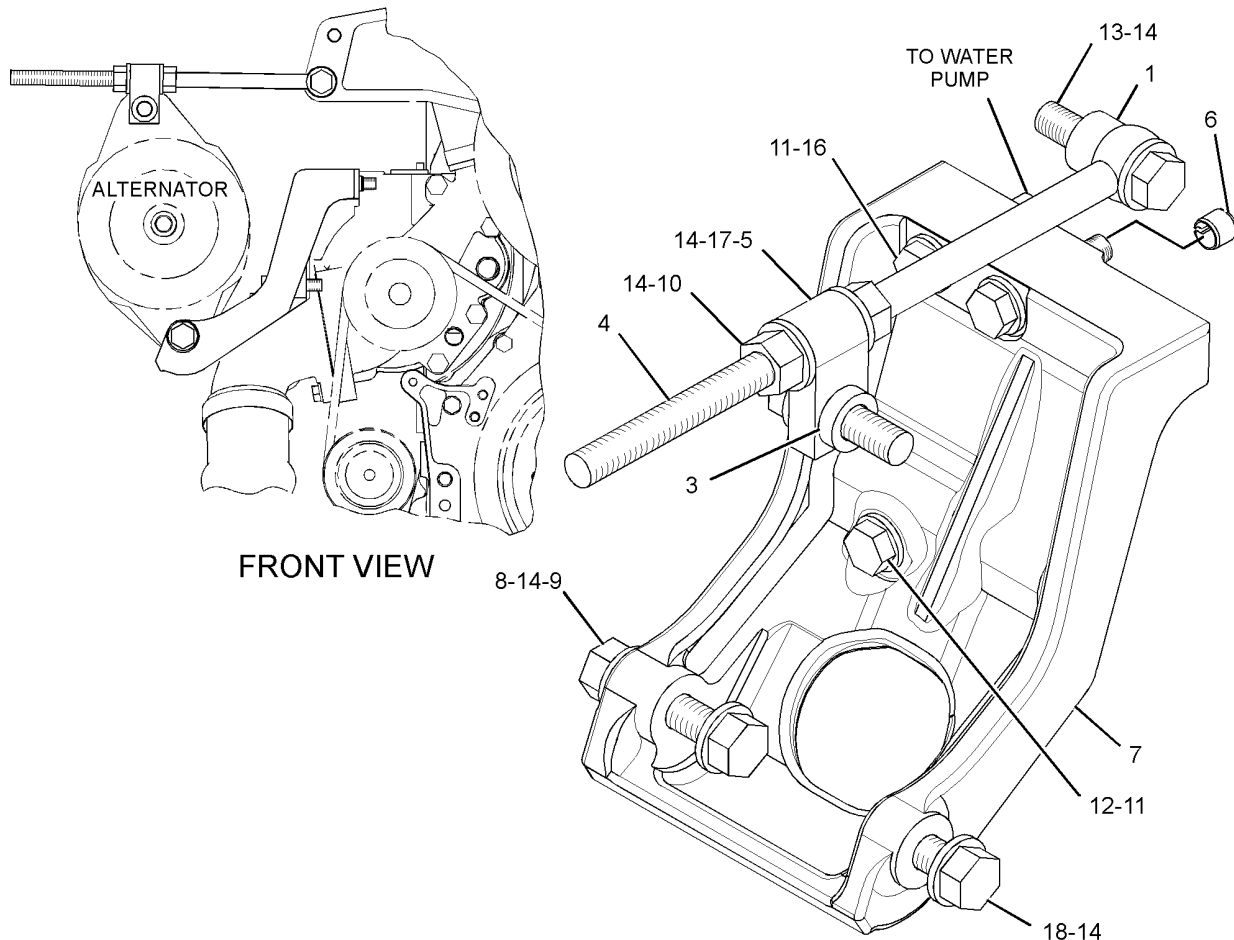
FOR USE WITH TRUCK WATER PUMP, 194-1093-PAGE 132
AN ATTACHMENT

SMCS-1154, 1405

i02550046

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 (0.5X0.875X0.5-IN THK)						
	3	1	3J-4278	1	SPACER (13.5X22.2X6.5-MM THK)						
	4	1	9L-5134	1	ROD						
	5	1	9L-6329	1	BLOCK						
	6	1	211-2101	2	SLEEVE						
C	7	1	279-6024	1	BRACKET						
C	8	1	6V-8188	1	NUT (1/2-13-THD)						
	9	1	7X-0325	1	BOLT (1/2-13X2.5-IN)						
	10	1	7X-3374	2	NUT-FULL (1/2-20-THD)						
	11	1	8T-4121	3	WASHER-HARD (11X21X2.5-MM THK)						
M	12	1	8T-4182	1	BOLT (M10X1.5X45-MM)						
M	13	1	8T-4194	1	BOLT (M12X1.75X50-MM)						
C	14	1	8T-4223	7	WASHER-HARD (13.5X25.5X3-MM THK)						
CM	16	1	8T-4185	2	BOLT (M10X1.5X50-MM)						
	17	1	8T-8919	1	BOLT (1/2-13X1.75-IN)						
C	18	1	5P-2566	1	BOLT (1/2-13X1.5-IN)						

C-CHANGE FROM PREVIOUS TYPE
M-METRIC PART



GRAPHIC #1

<END>

g01297681

BASIC ENGINE

291-5526 MOUNTING GP-ALTERNATOR

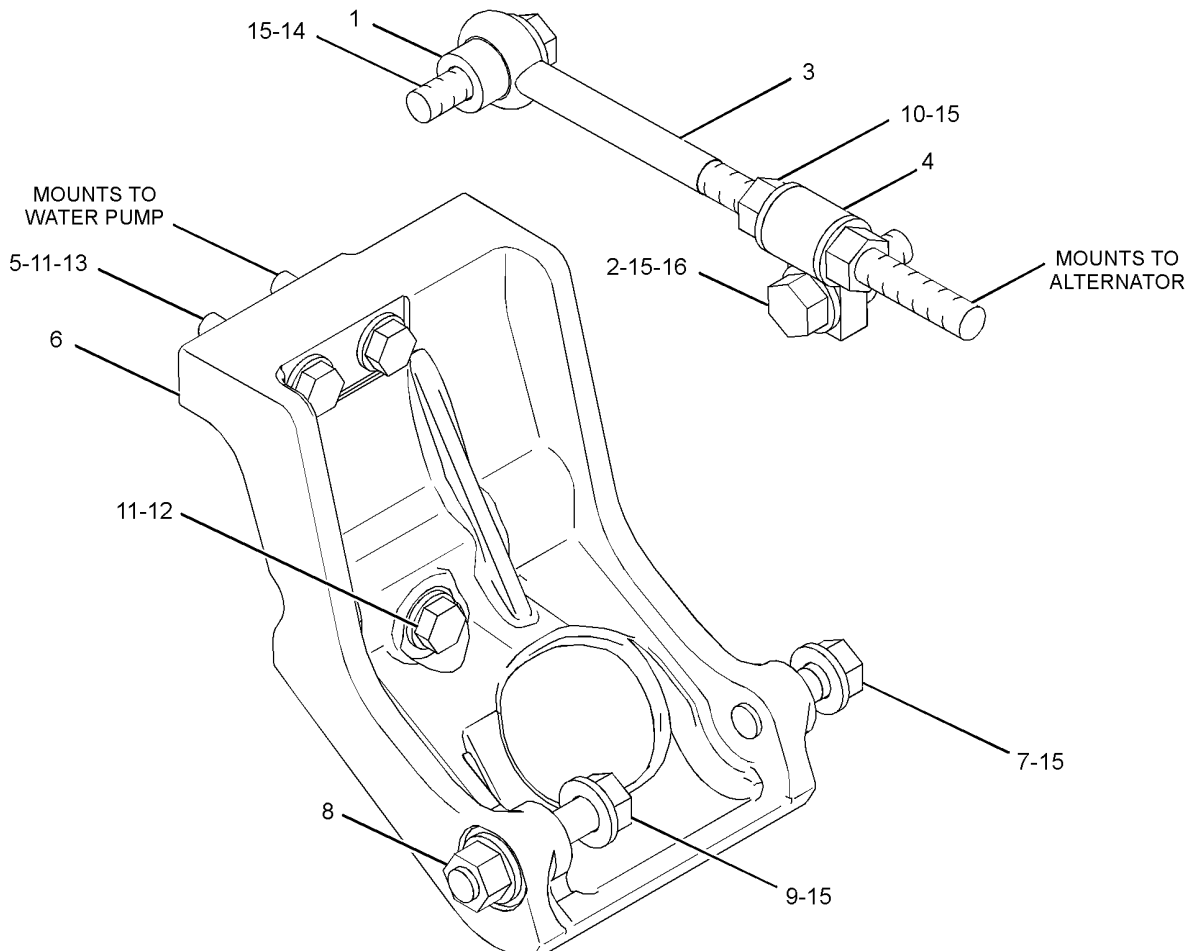
AN ATTACHMENT

SMCS-1154, 1405

i02549885

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 (0.5X0.875X0.5-IN THK)						
	2	1	3J-4278	1	SPACER (13.5X22.2X6.5-MM THK)						
	3	1	6L-5874	1	ROD-PULLEY ADJUSTMENT						
	4	1	9L-6329	1	BLOCK						
	5	1	211-2101	2	SLEEVE (SPLIT)						
	6	1	279-6024	1	BRACKET						
	7	1	5P-2566	1	BOLT (1/2-13X1.5-IN)						
	8	1	6V-8188	1	NUT (1/2-13-THD)						
	9	1	7X-0325	1	BOLT (1/2-13X2.5-IN)						
	10	1	7X-3374	2	NUT-FULL (1/2-20-THD)						
	11	1	8T-4121	3	WASHER-HARD (11X21X2.5-MM THK)						
M	12	1	8T-4182	1	BOLT (M10X1.5X45-MM)						
M	13	1	8T-4185	2	BOLT (M10X1.5X50-MM)						
M	14	1	8T-4194	1	BOLT (M12X1.75X50-MM)						
	15	1	8T-4223	7	WASHER-HARD (13.5X25.5X3-MM THK)						
	16	1	8T-8919	1	BOLT (1/2-13X1.75-IN)						

M-METRIC PART



GRAPHIC #1

<END>

g01277380

BASIC ENGINE

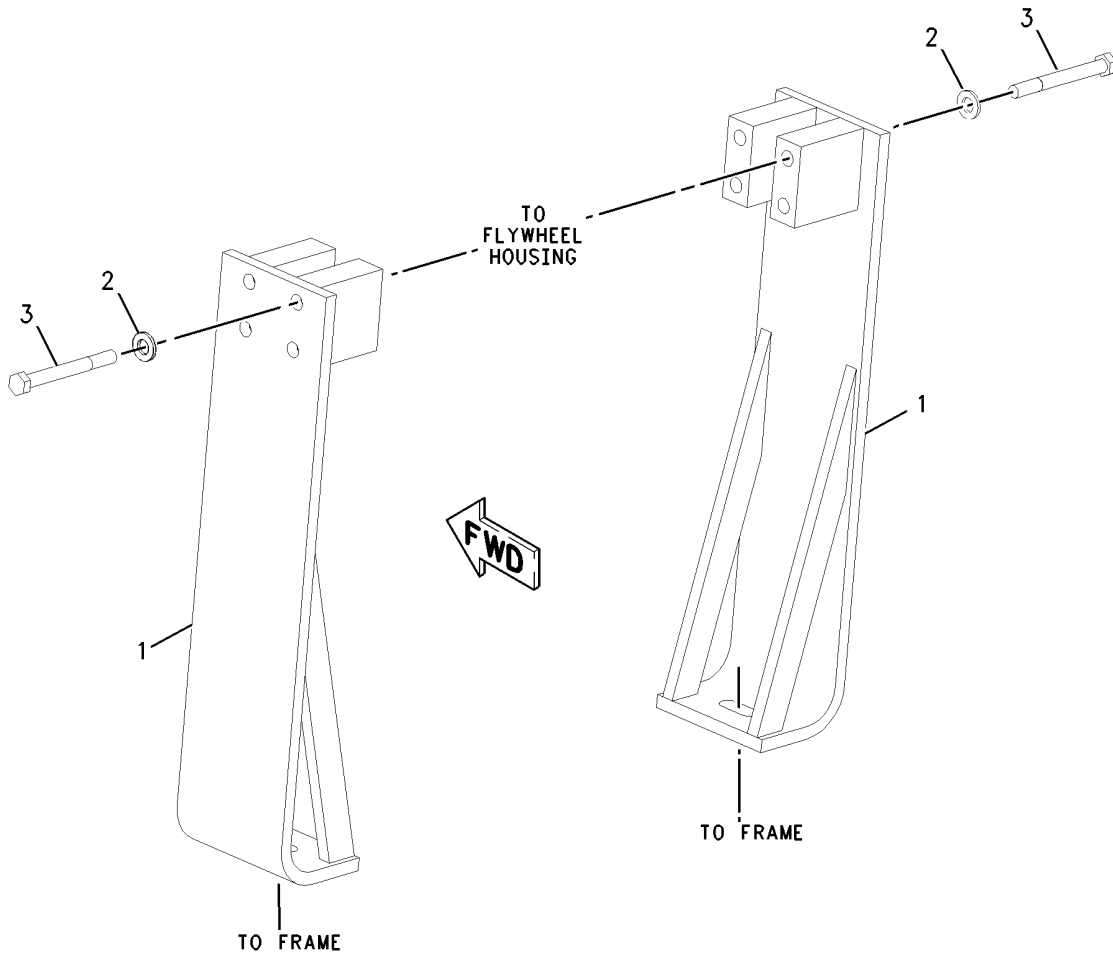
219-1479 MOUNTING GP-ENGINE AN ATTACHMENT

SMCS-1152

i02505571

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	219-1480	2	SUPPORT AS						
	2	1	5P-8245	8	WASHER-HARD (13.5X25.5X3-MM THK)						
M	3	1	8T-0646	8	BOLT (M12X1.75X110-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00933910

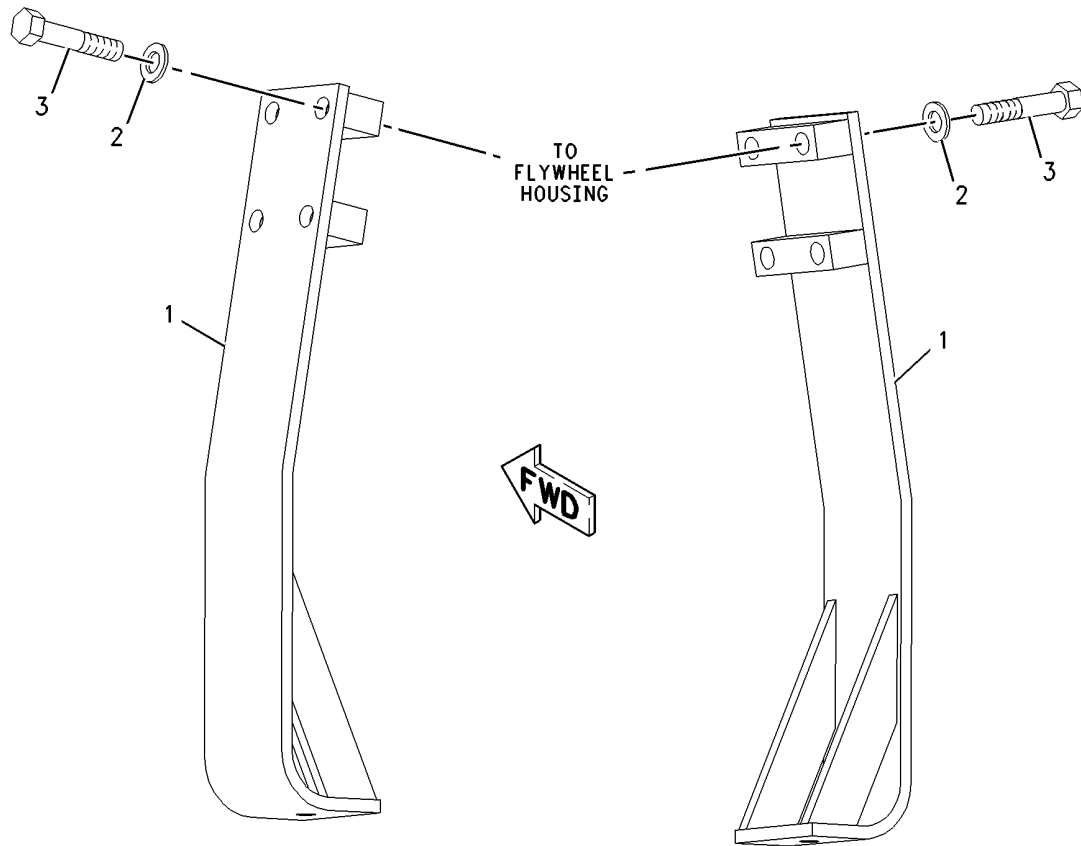
BASIC ENGINE

219-1481 MOUNTING GP-ENGINE AN ATTACHMENT

SMCS-1152

i02505573

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	219-1482	2	SUPPORT AS						
	2	1	5P-8248	8	WASHER-HARD (20X36.5X3.5-MM THK)						
	3	1	7F-5227	8	BOLT (3/4-10X3.75-IN)						



GRAPHIC #1

<END>

g00933953

BASIC ENGINE

194-1093 MOUNTING GP-FAN DRIVE

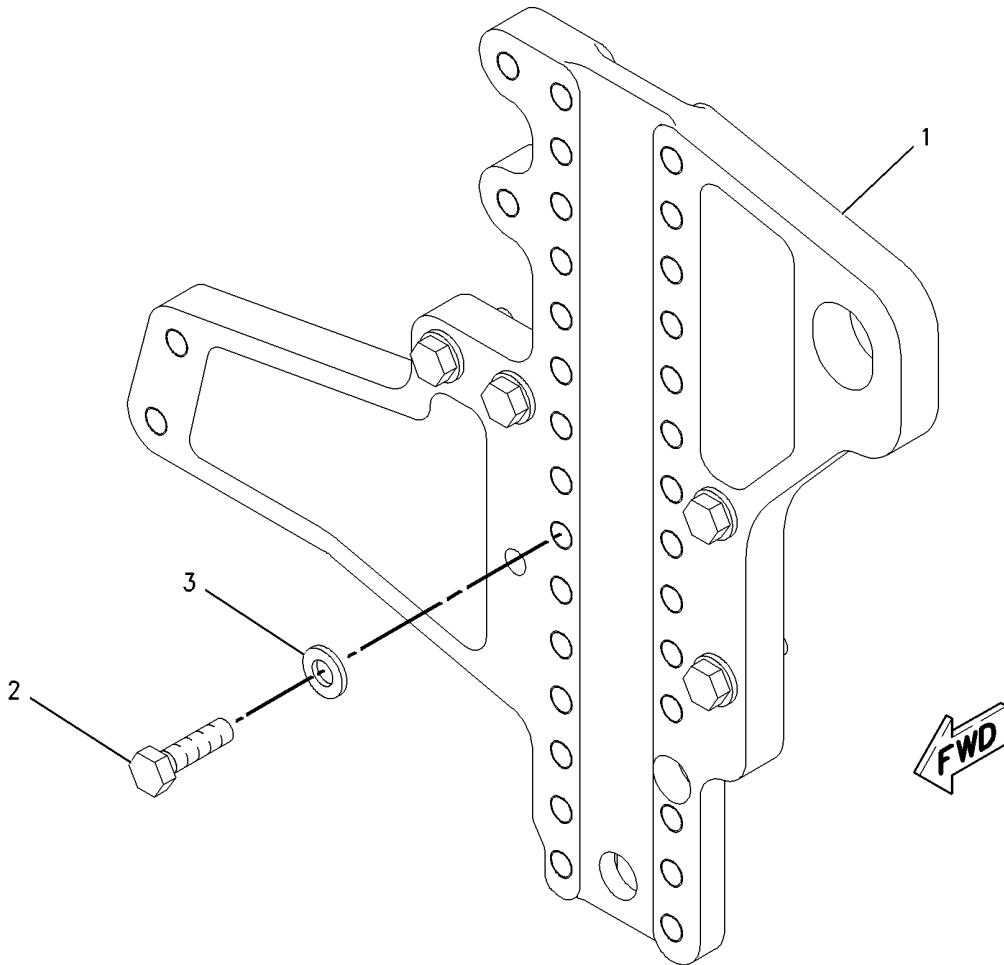
AN ATTACHMENT

SMCS-1359

i02294451

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 (M10X1.5X35-MM)						
	3	1	6V-5839	5	WASHER (11X21X2.5-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00754312

BASIC ENGINE

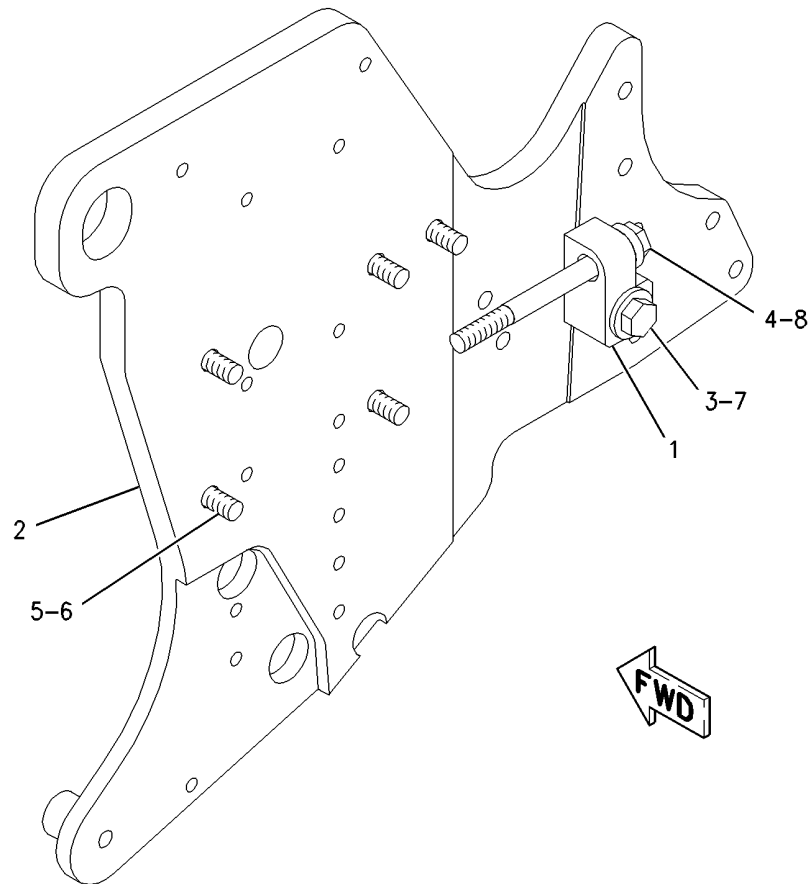
201-9764 MOUNTING GP-FAN DRIVE AN ATTACHMENT

SMCS-1359

i02294450

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	188-7756	1	BLOCK						
	2	1	201-9763	1	SUPPORT AS-FAN						
	3	1	3E-4353	1	WASHER-HARD (11X25X3-MM THK)						
	4	1	4S-9191	1	WASHER (12X22.5X5-MM THK)						
M	5	1	6V-3822	5	BOLT (M10X1.5X35-MM)						
	6	1	6V-5839	5	WASHER (11X21X2.5-MM THK)						
M	7	1	6V-5843	1	BOLT (M10X1.5X45-MM)						
M	8	1	8T-0355	1	BOLT (M10X1.5X110-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00787810

BASIC ENGINE

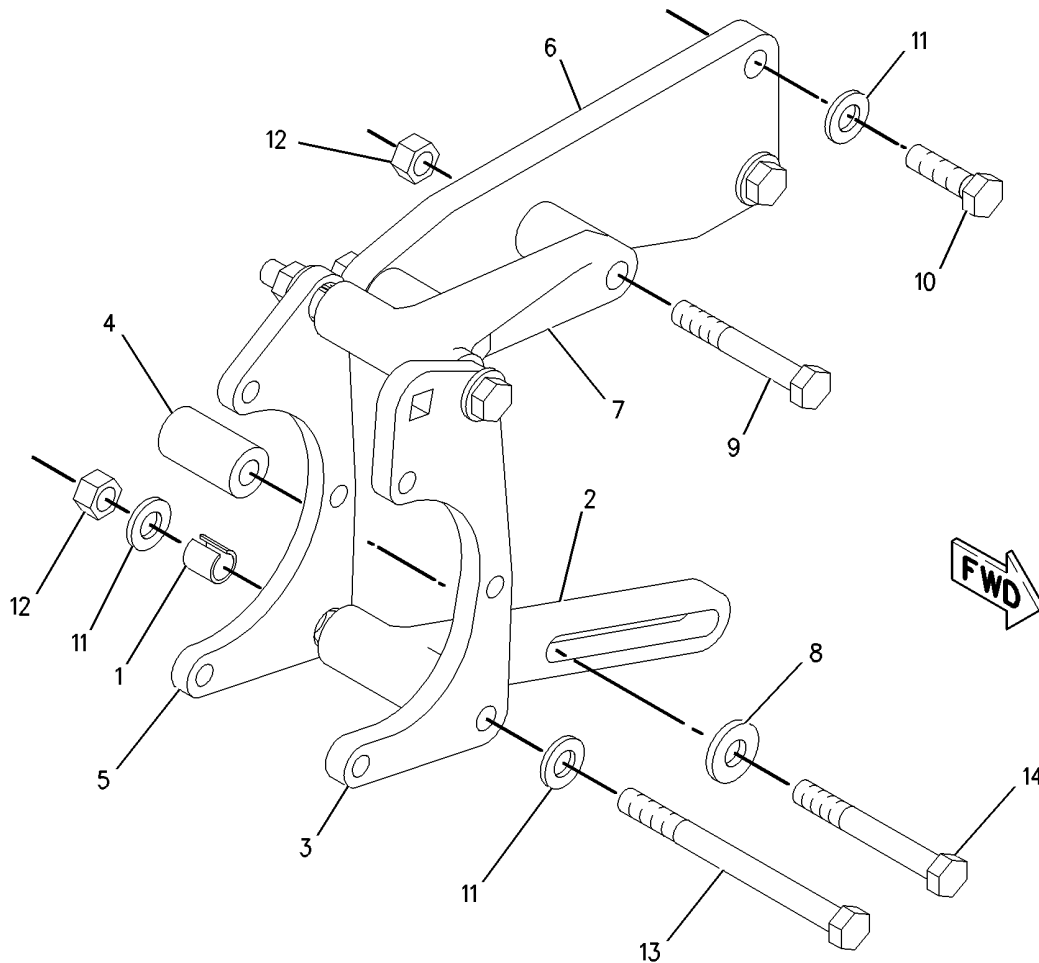
194-9467 MOUNTING GP-REFRIGERANT COMPR AN ATTACHMENT

SMCS-1802

i02206399

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 (16.8X17.5-MM)						
	2	1	7E-8918	1	BRACKET						
	3	1	9Y-7573	1	PLATE						
	4	1	4L-9600	1	SPACER (1.25-IN THK)						
	5	1	194-9455	1	PLATE						
	6	1	194-9466	1	BRACKET						
	7	1	194-9568	1	GASKET						
	8	1	5P-1076	1	WASHER-HARD (13.5X30X4-MM THK)						
M	9	1	8T-4648	2	BOLT (M12X1.75X70-MM)						
M	10	1	8T-4183	2	BOLT (M12X1.75X40-MM)						
	11	1	8T-4223	6	WASHER-HARD (13.5X25.5X3-MM THK)						
M	12	1	8T-4244	4	NUT (M12X1.75-THD)						
M	13	1	8T-5412	2	BOLT (M12X1.75X140-MM)						
M	14	1	8T-6868	1	BOLT (M12X1.75X80-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00921330

BASIC ENGINE

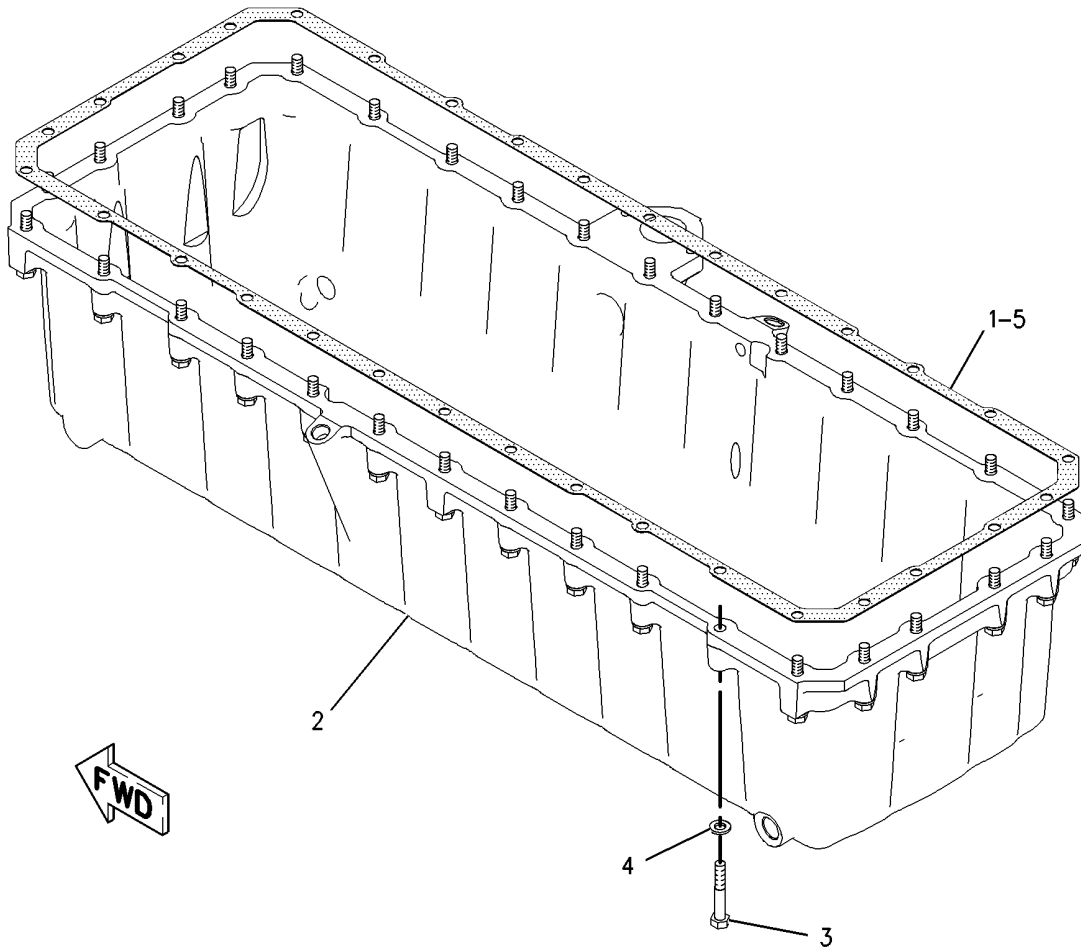
197-6354 PAN GP-OIL-ENGINE AN ATTACHMENT

SMCS-1302

i02338215

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	190-6114	1	GASKET-OIL PAN (ENGINE)							
	2	1	192-1949	1	PAN-OIL (ENGINE)							
M	3	1	6V-3918	32	BOLT (M8X1.25X50-MM)							
	4	1	9M-1974	32	WASHER-HARD (8.8X16X2-MM THK)							
B	5	1	4C-9612		SEALANT-SILICONE							

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00793586

BASIC ENGINE

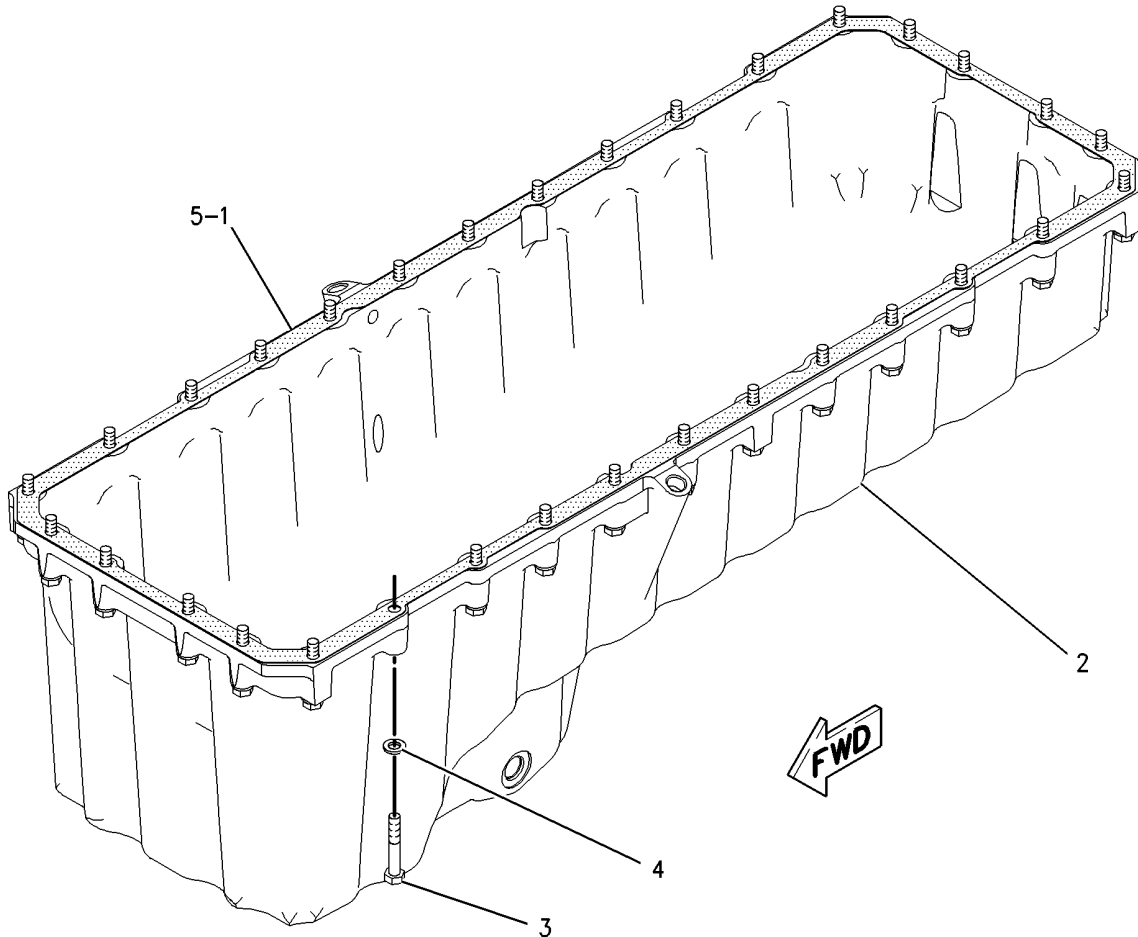
198-6368 PAN GP-OIL-ENGINE FRONT SUMP AN ATTACHMENT

SMCS-1302

i02596843

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	190-6114	1	GASKET-OIL PAN							
	2	1	198-6366	1	PAN-OIL							
M	3	1	6V-3918	32	BOLT (M8X1.25X50-MM)							
	4	1	9M-1974	32	WASHER-HARD (8.8X16X2-MM THK)							
B	5	1	4C-9612		SEALANT-SILICONE							

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00766865

BASIC ENGINE

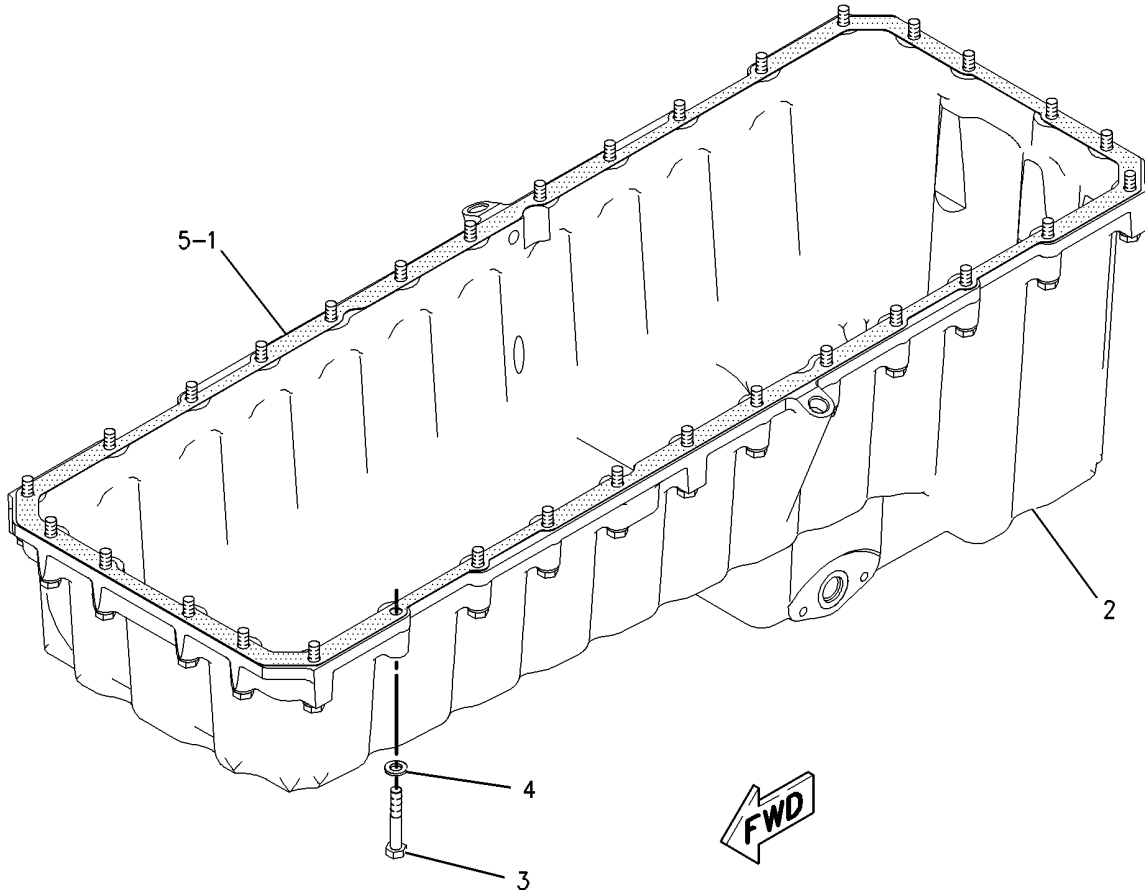
198-6369 PAN GP-OIL-ENGINE REAR SUMP AN ATTACHMENT

SMCS-1302

i02596845

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	190-6114	1	GASKET-OIL PAN						
	2	1	198-6366	1	PAN-OIL						
M	3	1	6V-3918	32	BOLT (M8X1.25X50-MM)						
	4	1	9M-1974	32	WASHER-HARD (8.8X16X2-MM THK)						
B	5	1	4C-9612		SEALANT-SILICONE						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00766821

BASIC ENGINE

265-1400 PISTON & ROD GP

16.1:1 COMPRESSION RATIO

PART OF 287-3653 ENGINE AR-CORE

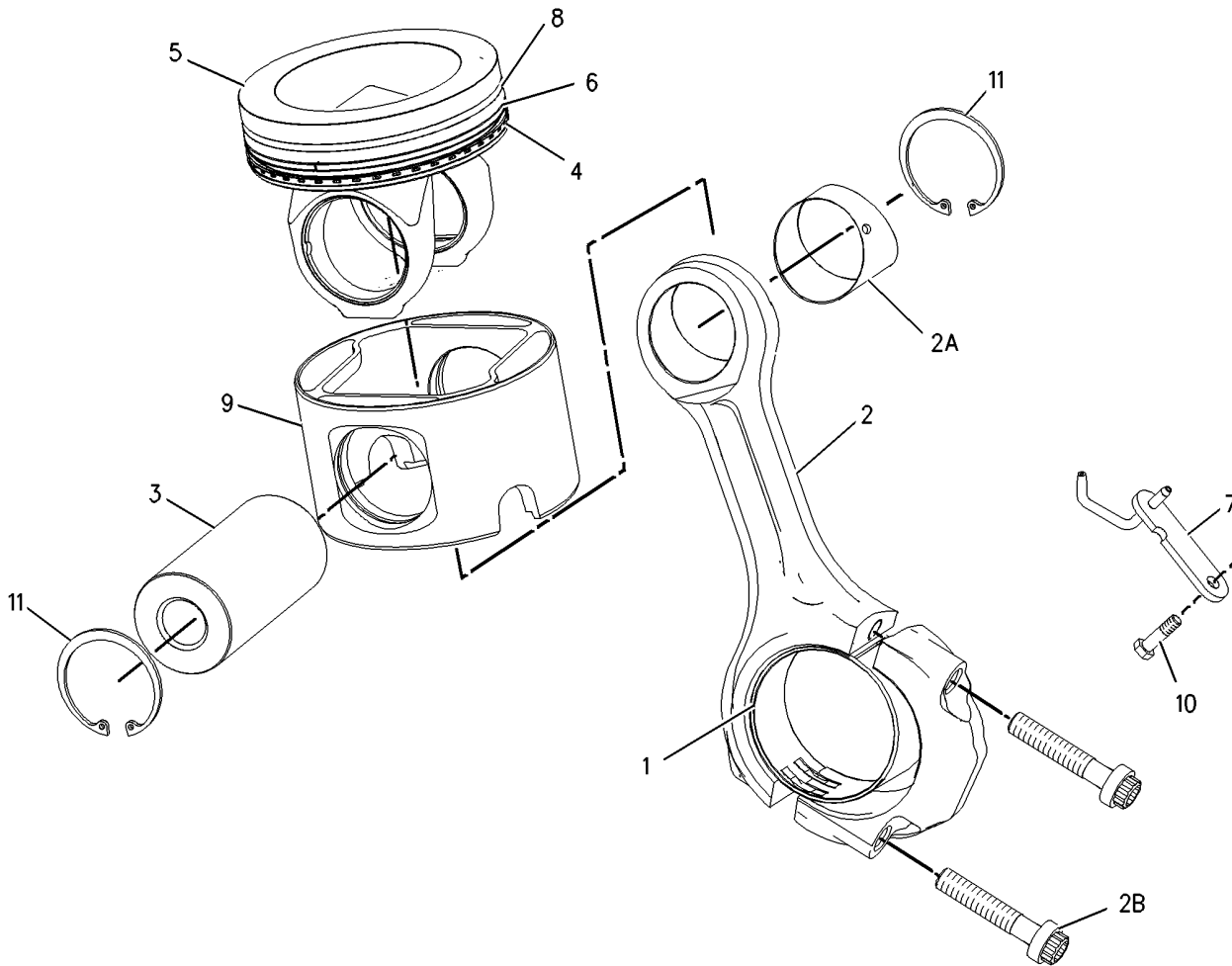
SMCS-1225

i02283011

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	213-3190	1	BEARING						
R	2	1	160-8199	1	ROD AS						
	2A	1	160-8194	1	BEARING						
M	2B	1	160-8197	2	BOLT						
	3	1	166-3648	1	PIN-PISTON						
	4	1	168-7211	1	RING-PISTON (OIL CONTROL)						
	5	1	265-1401	1	CROWN AS-PISTON						
	6	1	161-3424	1	RING-PISTON (INTERMEDIATE)						
	7	1	197-9367	1	TUBE AS (PISTON COOLING JET)						
	8	1	197-9392	1	RING-PISTON (TOP)						
	9	1	238-2709	1	SKIRT-PISTON						
M	10	1	6V-3940	1	BOLT (M8X1.25X25-MM)						
	11	1	7X-2908	2	RING-RETAINING						

M-METRIC PART

R-REMG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00922644

BASIC ENGINE

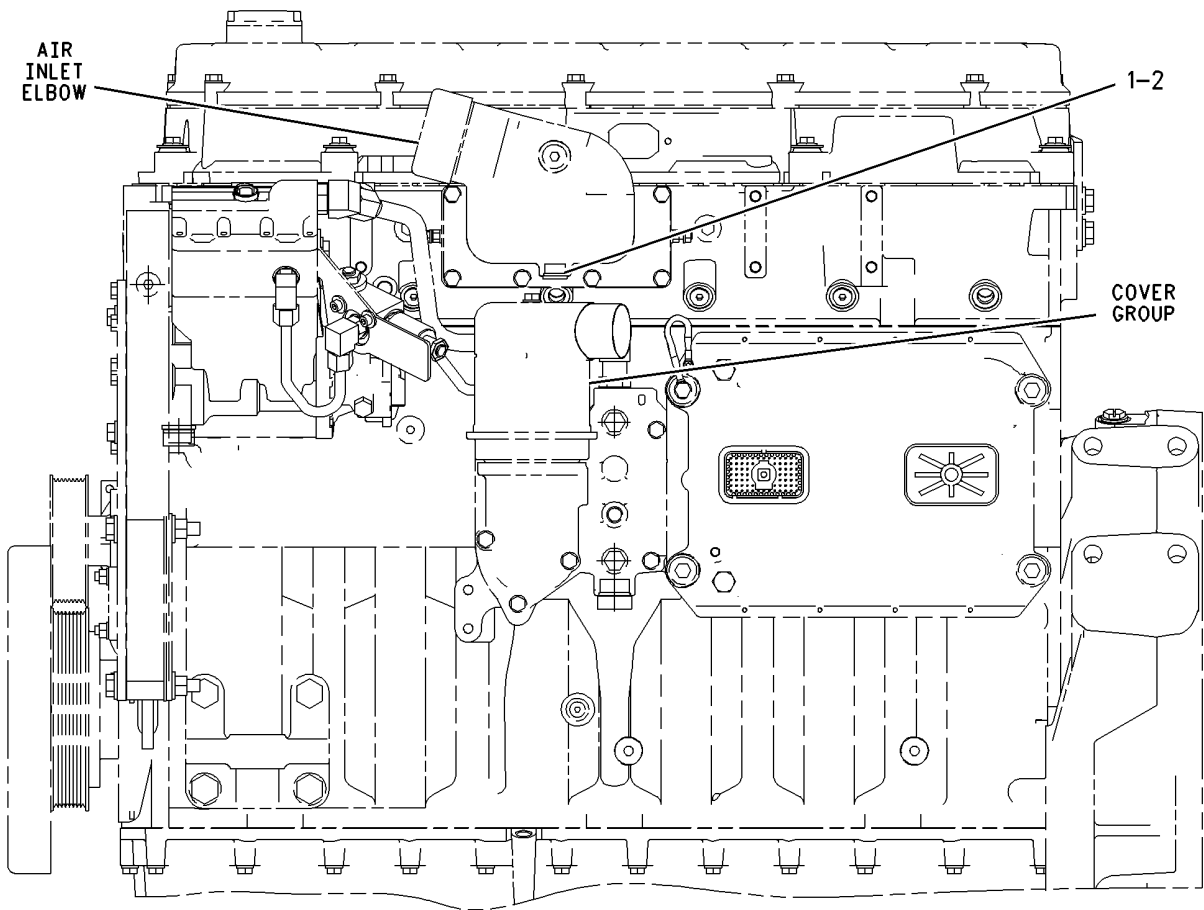
208-2836 PLUG GP-ENGINE

AN ATTACHMENT

SMCS-1100

i02265098

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8L-2786	1	SEAL-O-RING						
	2	1	9S-8005	1	PLUG-O RING						



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00844049

BASIC ENGINE

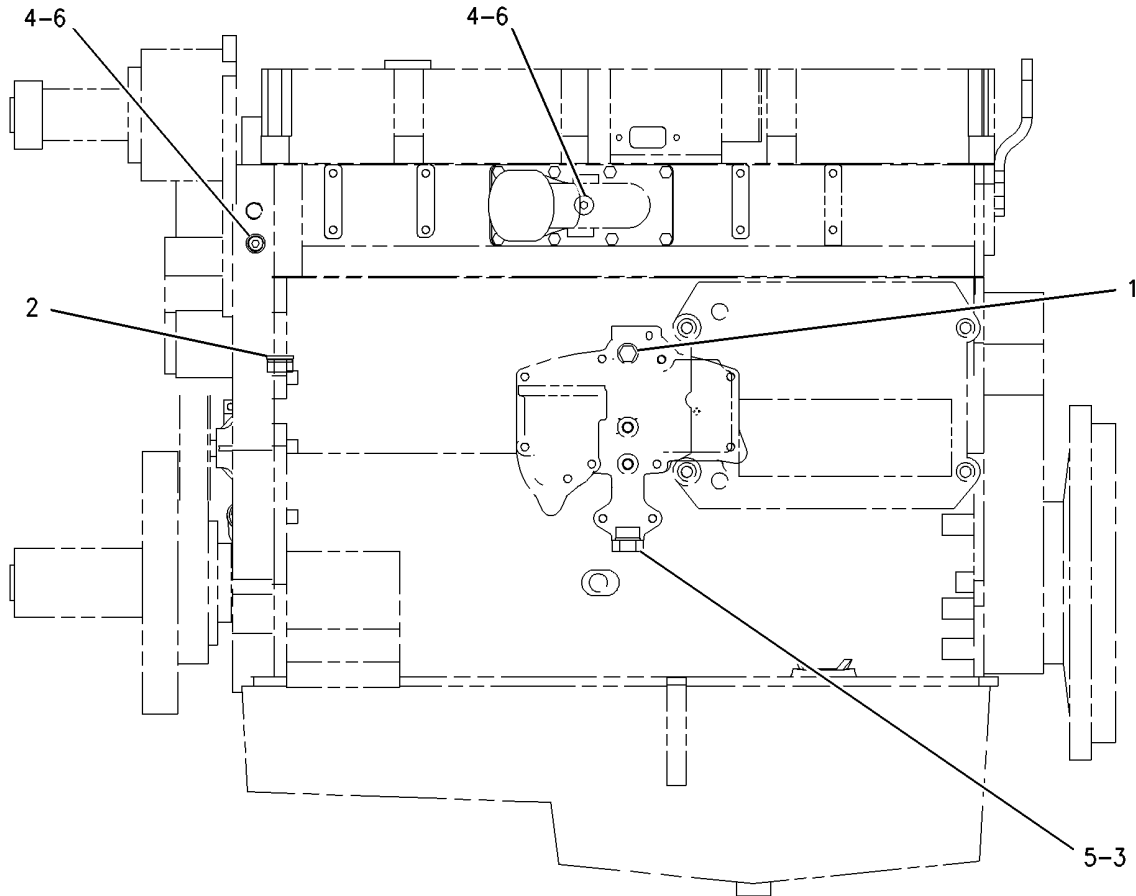
215-7708 PLUG GP-ENGINE

AN ATTACHMENT

SMCS-1100

i02596850

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	183-3406	1	PLUG AS						
		1	9S-4191	1	PLUG-O RING						
		1	6V-5049	1	SEAL-O-RING						
2	1	1	148-8409	1	PLUG AS						
		1	9S-8008	1	PLUG-DRAIN (ENGINE)						
		1	3D-2824	1	SEAL-O-RING						
3	1	1	3D-2824	1	SEAL-O-RING						
4	1	1	8L-2786	2	SEAL-O-RING						
5	1	1	9S-4183	1	PLUG-O RING						
6	1	1	9S-8005	2	PLUG-O RING						



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00858470

BASIC ENGINE

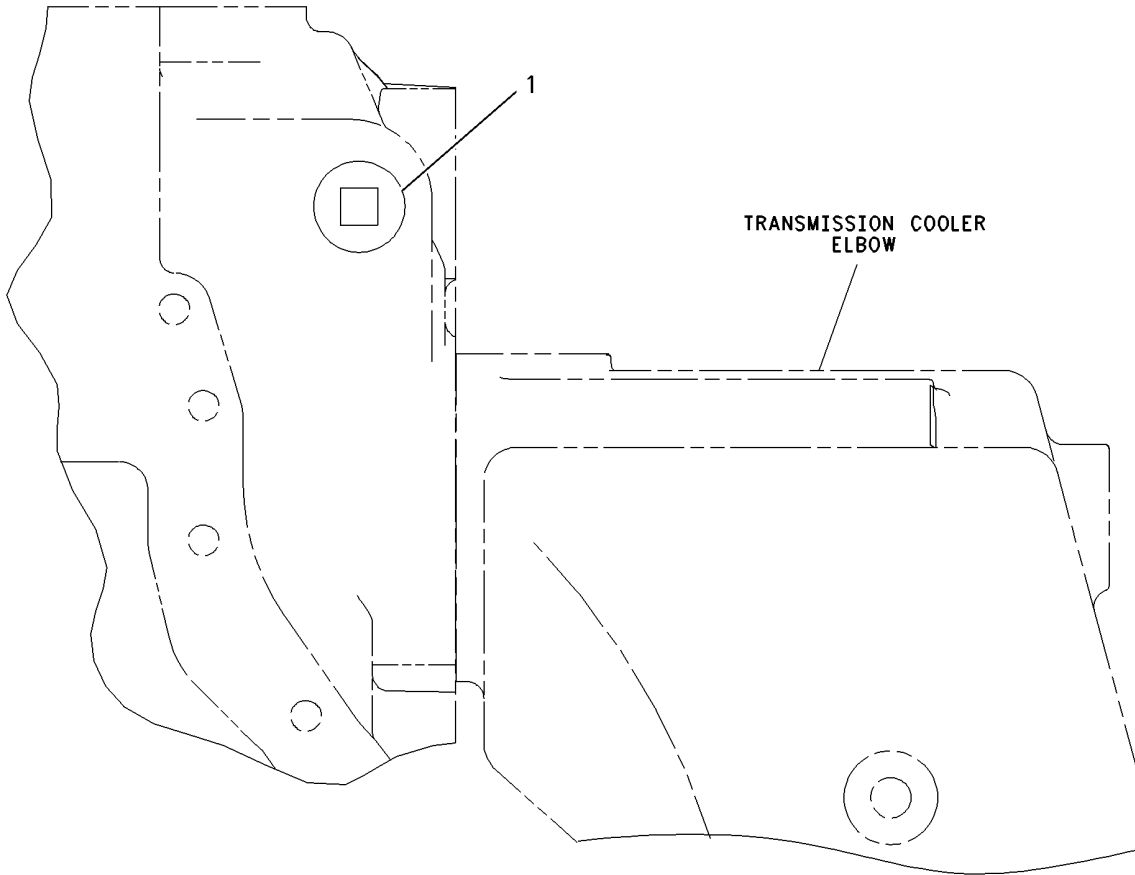
228-0784 PLUG GP-ENGINE

AN ATTACHMENT

SMCS-1100

i02509027

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-6761	1	PLUG-PIPE						



REAR VIEW

GRAPHIC #1

<END>

g00985699

BASIC ENGINE

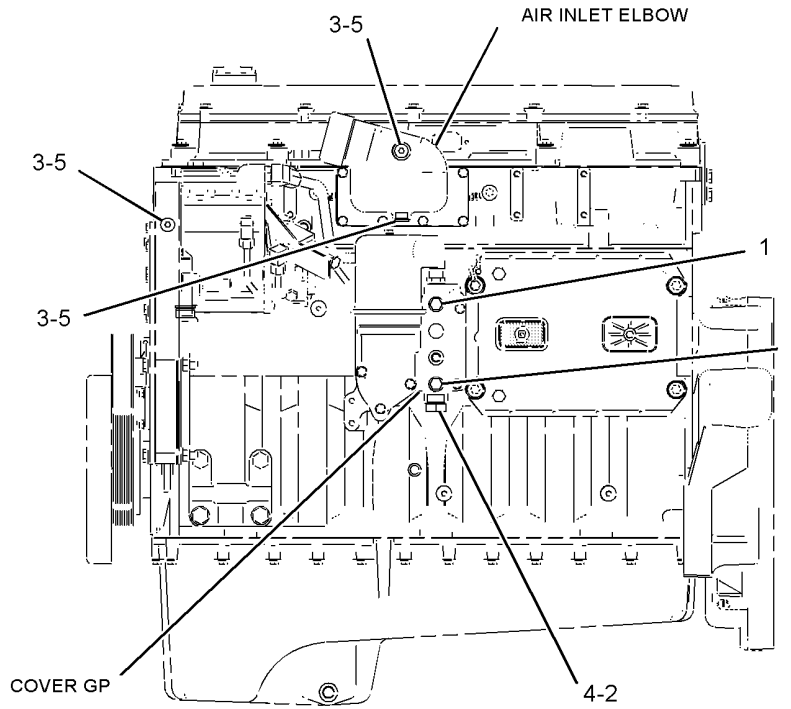
253-7172 PLUG GP-ENGINE

FOR ENGINES W/O AIR COMPRESSOR
AN ATTACHMENT

SMCS-1100

i02292157

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
1	1	1	183-3406	2	PLUG AS						
					(EACH INCLUDES)						
		1	6V-5049	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-O RING						
2		1	3D-2824	1	SEAL-O-RING						
3		1	8L-2786	3	SEAL-O-RING						
4		1	9S-4183	1	PLUG-O RING						
5		1	9S-8005	3	PLUG-O RING						



LEFT SIDE VIEW

<END>

GRAPHIC #1

g01100938

BASIC ENGINE

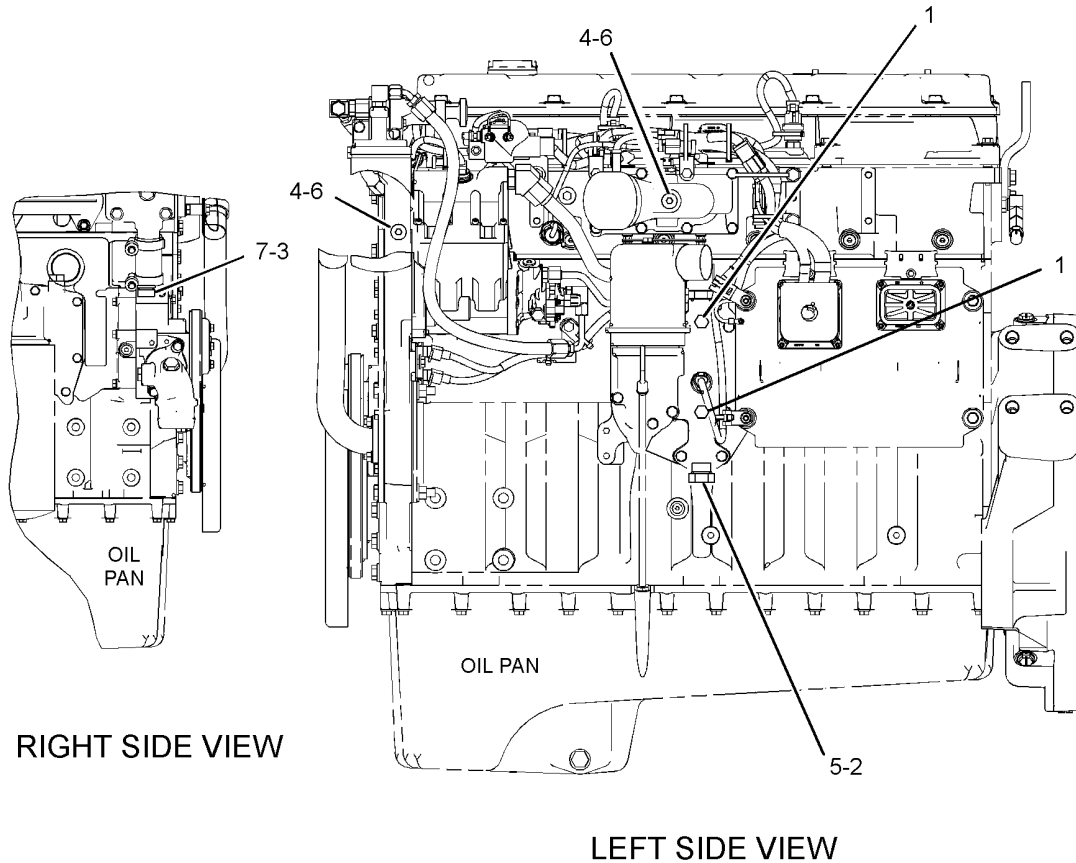
260-1547 PLUG GP-ENGINE

FOR ENGINES W/O AIR COMPRESSOR
AN ATTACHMENT

SMCS-1100

i02596853

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	183-3406	2	PLUG AS						
					(EACH INCLUDES)						
		1	6V-5049	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-O RING						
	2	1	3D-2824	1	SEAL-O-RING						
	3	1	6V-5063	1	SEAL-O-RING						
	4	1	8L-2786	2	SEAL-O-RING						
	5	1	9S-4183	1	PLUG-O RING						
	6	1	9S-8005	2	PLUG-O RING						
	7	1	9S-8008	1	PLUG-DRAIN (ENGINE)						



GRAPHIC #1

<END>

g01255599

BASIC ENGINE

2W-4909 POWER TAKE-OFF GP

CLUTCH

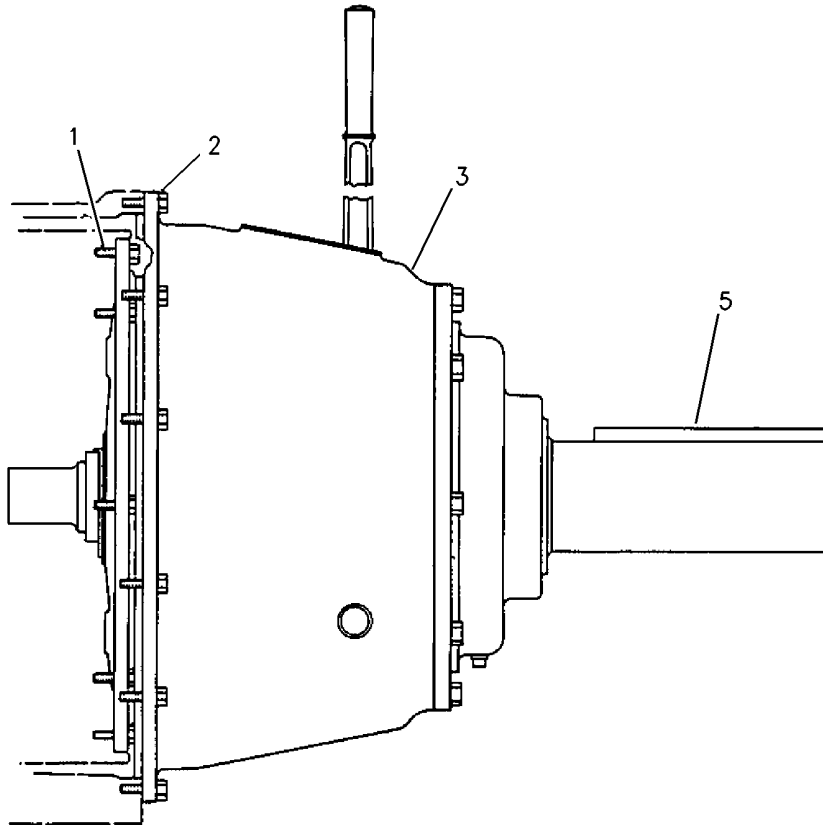
CANNOT BE USED WITH REAR STUB SHAFT
AN ATTACHMENT

SMCS-1165

i01664490

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	3H-5368	12	BOLT (7/16-14X1.375IN)						
Y	3	1	2W-4908	1	CLUTCH GP						21
	5	1	2F-7771	1	KEY-SQUARE						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00863553

BASIC ENGINE

236-6689 PULLEY GP

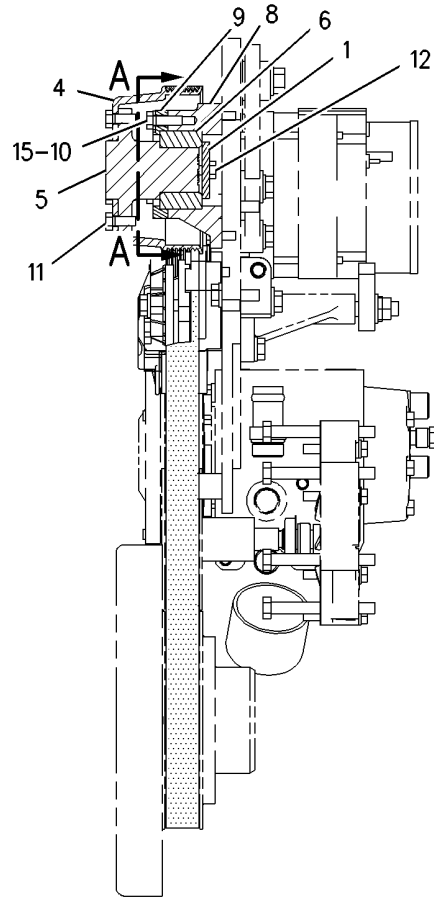
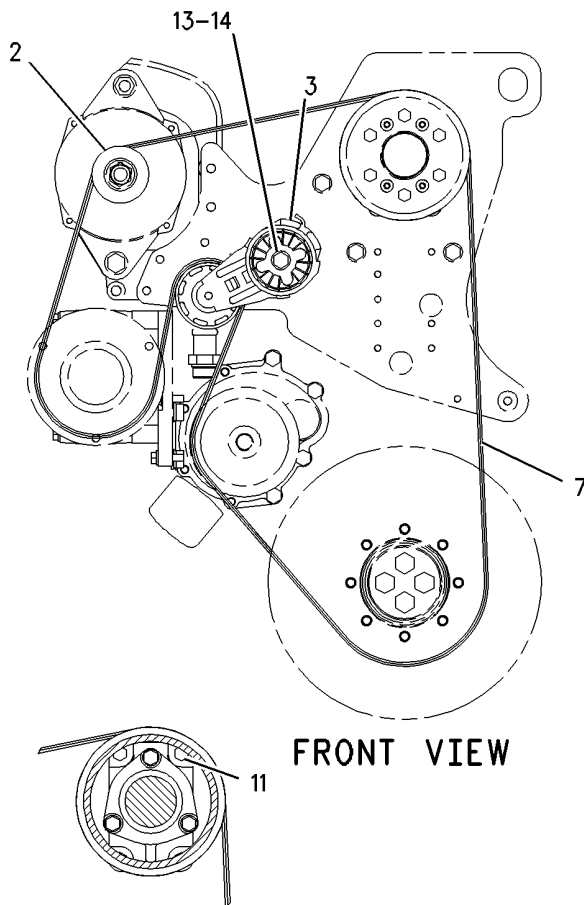
AN ATTACHMENT

SMCS-1205, 1359, 1384, 1425

i02292516

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	111-7238	1	PLATE (THRUST)						
	2	1	123-0858	1	PULLEY GP-FAN & ALT DRIVE (8-GROOVE)						
	3	1	135-2142	1	BELT TENSIONER (AUXILIARY DRIVE)						
	4	1	190-3956	1	PULLEY (8-GROOVE)						
	5	1	190-3968	1	SHAFT-FAN						
	6	1	200-2282	1	BEARING AS						
	7	1	211-3576	1	BELT (AUXILIARY DRIVE)						
	8	1	226-7914	1	BRACKET (FAN BEARING)						
	9	1	228-5827	1	RETAINER-BEARING						
M	10	1	6V-3940	3	BOLT (M8X1.25X25-MM)						
M	11	1	6V-5217	10	BOLT (M8X1.25X20-MM)						
M	12	1	6V-5219	2	BOLT (M8X1.25X40-MM)						
	13	1	6V-5839	1	WASHER (11X21X2.5-MM THK)						
M	14	1	8T-0643	1	BOLT (M10X1.5X80-MM)						
	15	1	9M-1974	3	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00990317

BASIC ENGINE

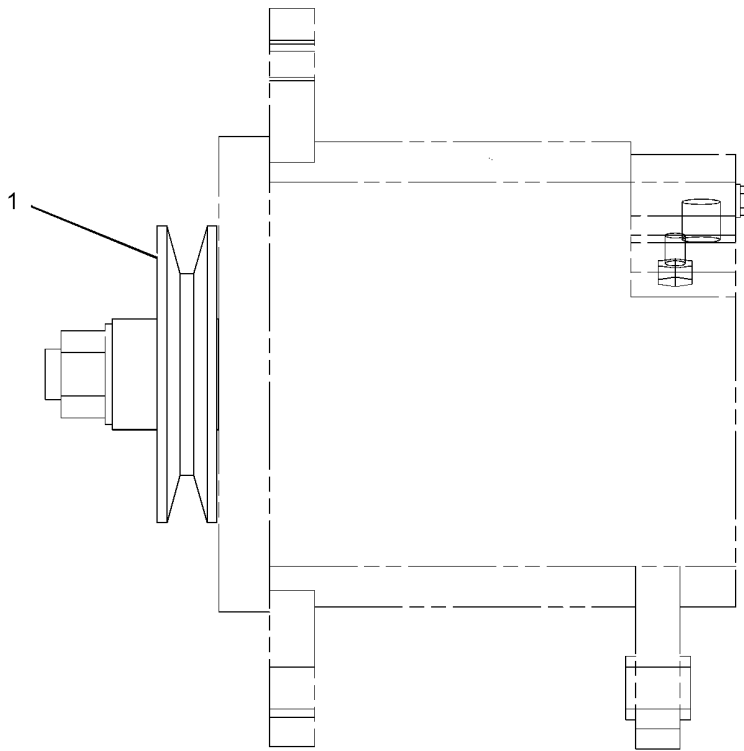
262-4465 PULLEY GP-ALTERNATOR

AN ATTACHMENT

SMCS-1425

i02292255

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	148-8860	1	PULLEY-ALTERNATOR						



GRAPHIC #1

<END>

g01148715

BASIC ENGINE

201-9768 PULLEY GP-AUXILIARY DRIVE

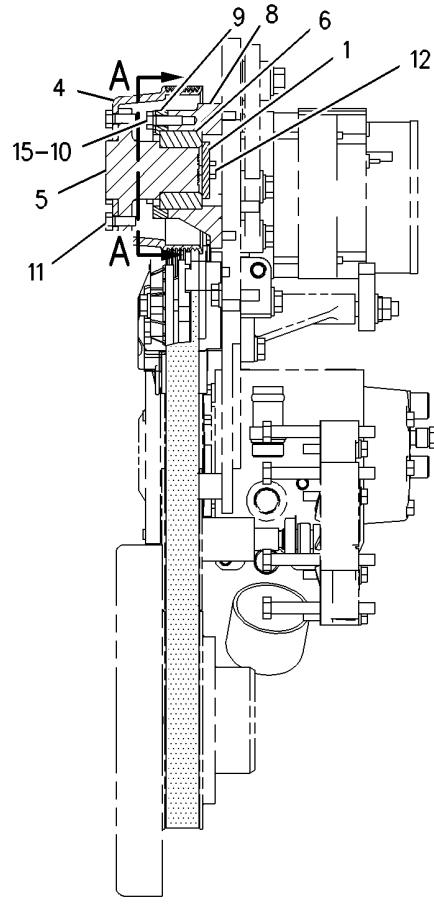
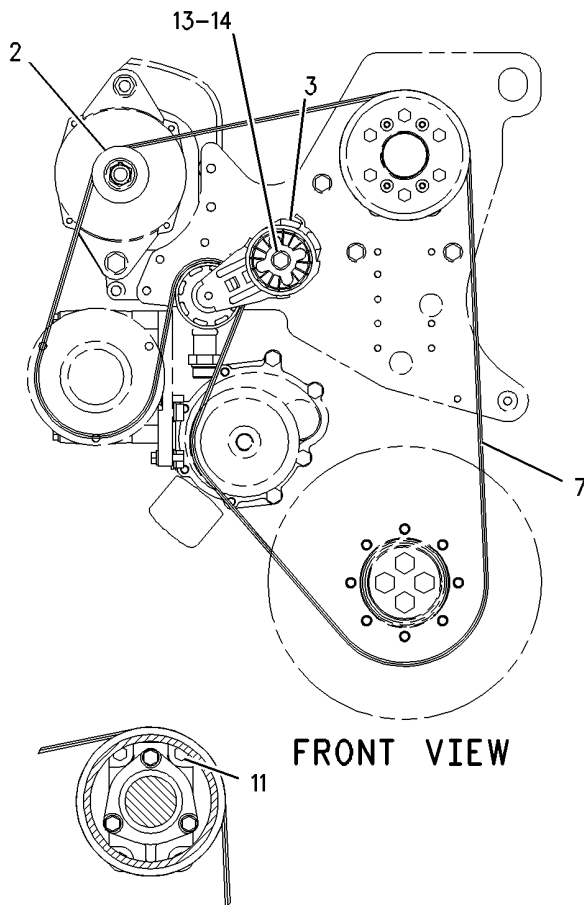
AN ATTACHMENT

SMCS-1205, 1207

i02253903

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	111-7238	1	PLATE (THRUST)							
	2	1	129-5096	1	PULLEY-ALTERNATOR							
	3	1	135-2142	1	BELT TENSIONER (AUXILIARY DRIVE)							
	4	1	190-3956	1	PULLEY (8-GROOVE)							
	5	1	190-3968	1	SHAFT-FAN							
	6	1	200-2282	1	BEARING AS							
	7	1	208-2833	1	BELT GP-SERPENTINE (AUXILIARY DRIVE)							
	8	1	226-7914	1	BRACKET (FAN BEARING)							
	9	1	228-5827	1	RETAINER-BEARING							
M	10	1	6V-3940	3	BOLT (M8X1.25X25-MM)							
M	11	1	6V-5217	10	BOLT (M8X1.25X20-MM)							
M	12	1	6V-5219	2	BOLT (M8X1.25X40-MM)							
	13	1	6V-5839	1	WASHER (11X21X2.5-MM THK)							
M	14	1	8T-0643	1	BOLT (M10X1.5X80-MM)							
	15	1	9M-1974	3	WASHER-HARD (8.8X16X2-MM THK)							

M-METRIC PART



GRAPHIC #1

<END>

g00990317

BASIC ENGINE

256-9758 PULLEY GP-AUXILIARY DRIVE

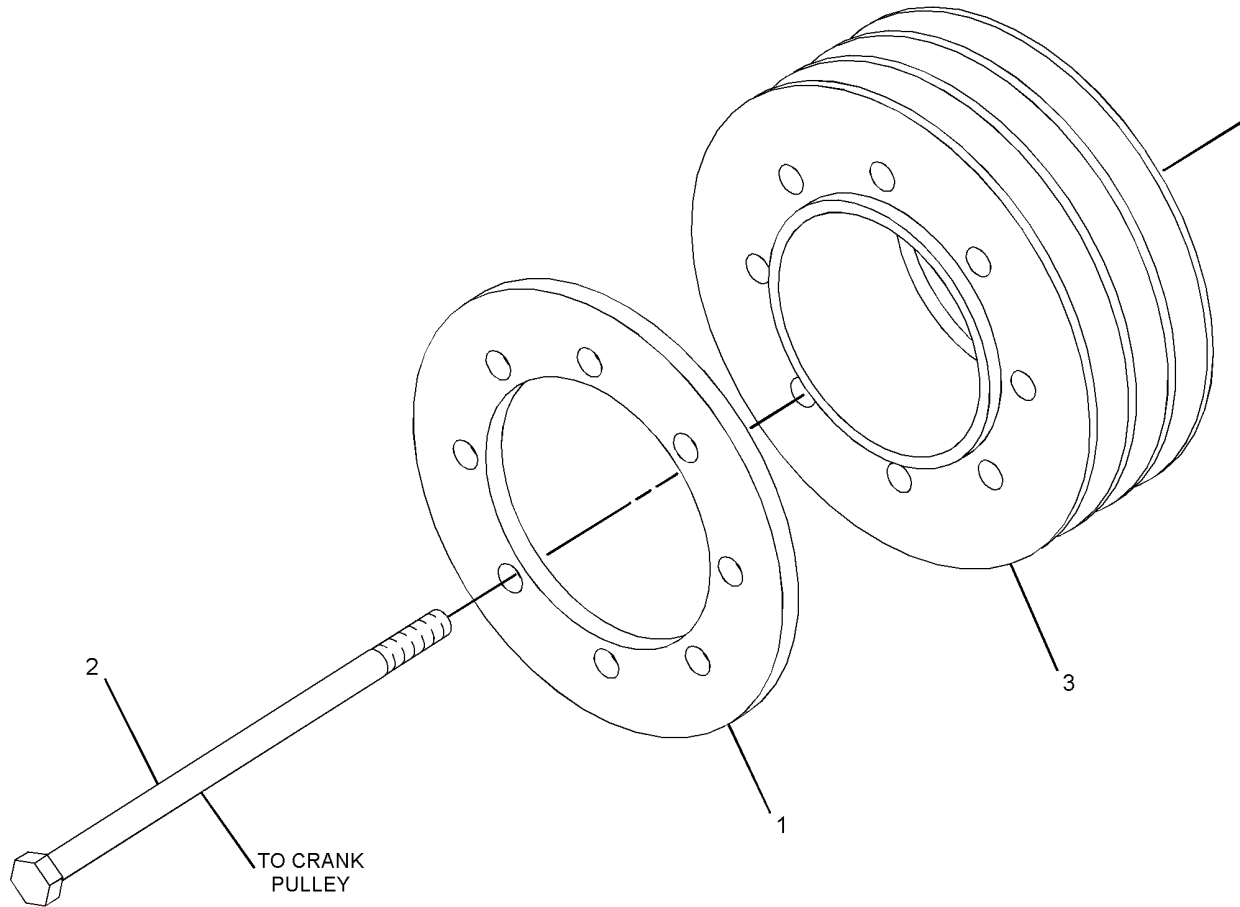
AN ATTACHMENT

SMCS-1205, 1207

i02504607

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE
						PAGE
	1	1	228-3621	1	SPACER	
M	2	1	8T-6854	8	BOLT (M10X1.5X200-MM)	
	3	1	9Y-5386	1	PULLEY	

M-METRIC PART



GRAPHIC #1

<END>

g01292991

BASIC ENGINE

256-9759 PULLEY GP-AUXILIARY DRIVE

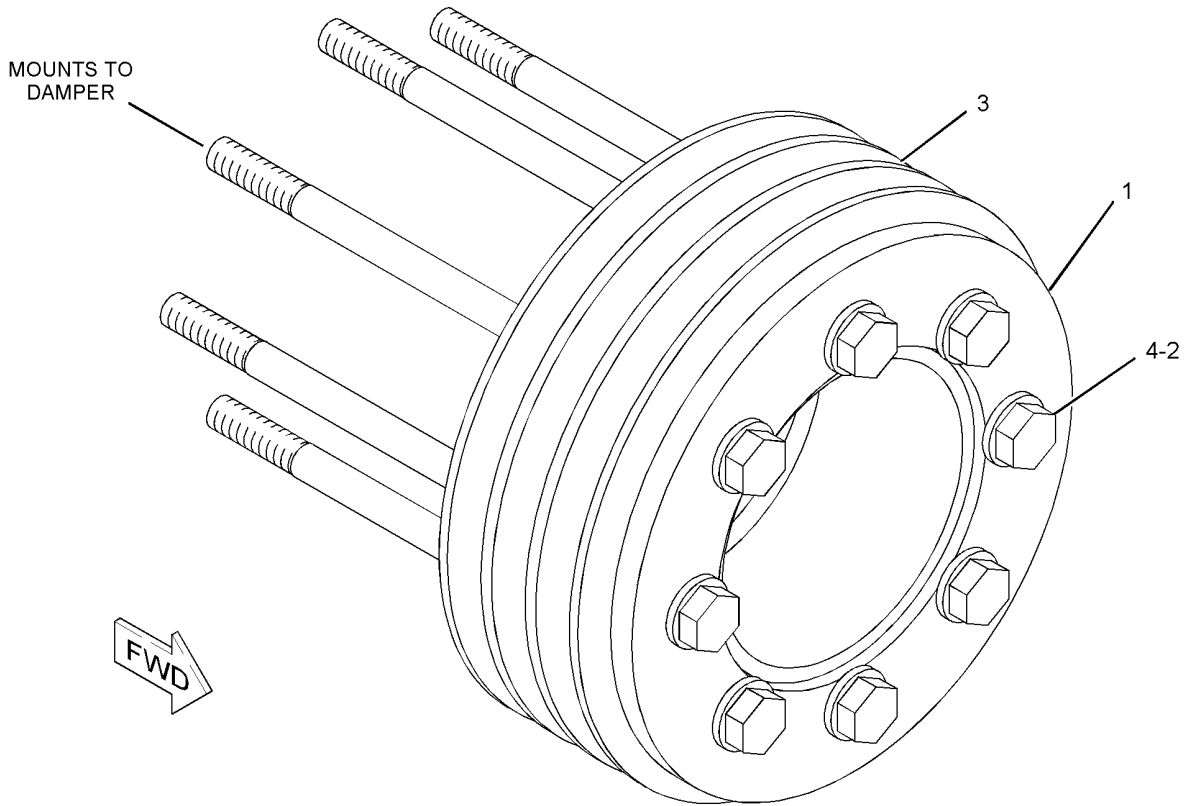
AN ATTACHMENT

SMCS-1205, 1207

i02459971

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	228-3621	1	SPACER						
	2	1	6V-5839	8	WASHER (11X21X2.5-MM THK)						
	3	1	7E-1620	1	PULLEY						
M	4	1	8T-6854	8	BOLT (M10X1.5X200-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01120141

BASIC ENGINE

208-2843 PULLEY GP-CRANKSHAFT

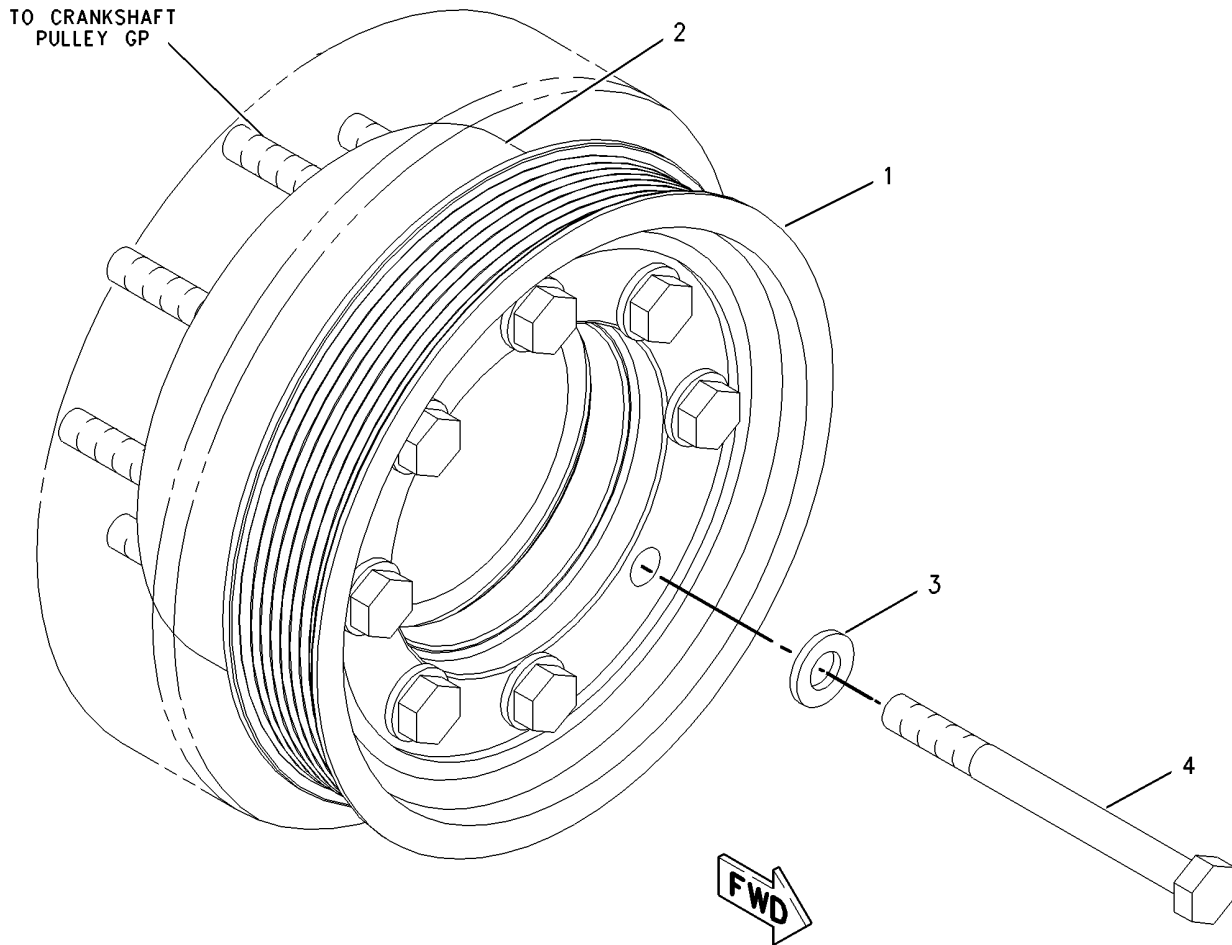
AN ATTACHMENT

SMCS-1205

i01689403

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE
						PAGE
	1	1	7E-8438	1	PULLEY	
	2	1	208-2844	1	ADAPTER	
	3	1	6V-5839	8	WASHER (11X21X2.5-MM THK)	
M	4	1	8T-0355	8	BOLT (M10X1.5X110-MM)	

M-METRIC PART



GRAPHIC #1

<END>

g00866977

BASIC ENGINE

211-8043 PULLEY GP-CRANKSHAFT

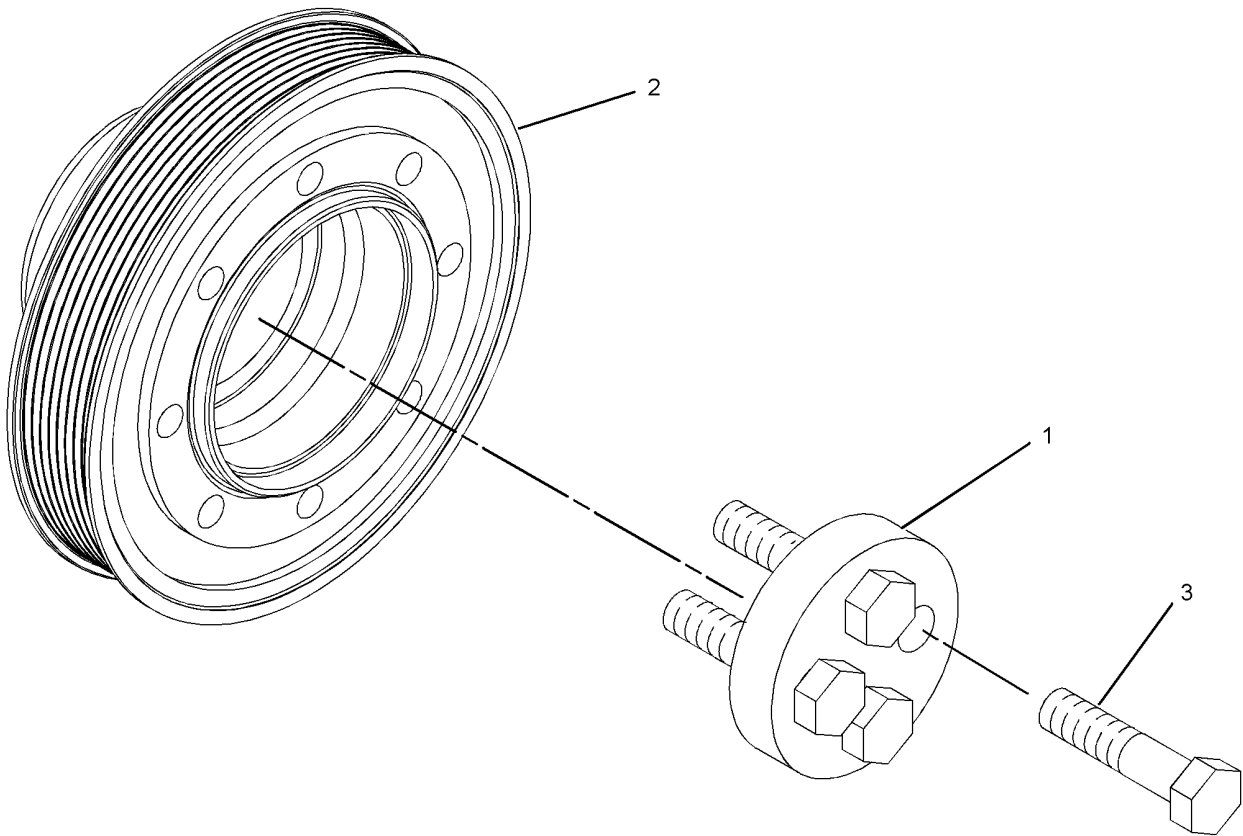
PROVIDES 8-GROOVE, 182.5MM DIAMETER POLY VEE CRANK PULLEY
AN ATTACHMENT

SMCS-1205

i02271042

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						
	2	1	153-1036	1	PULLEY - CRANKSHAFT						
M	3	1	8T-3666	4	BOLT (M14X60-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01137977

BASIC ENGINE

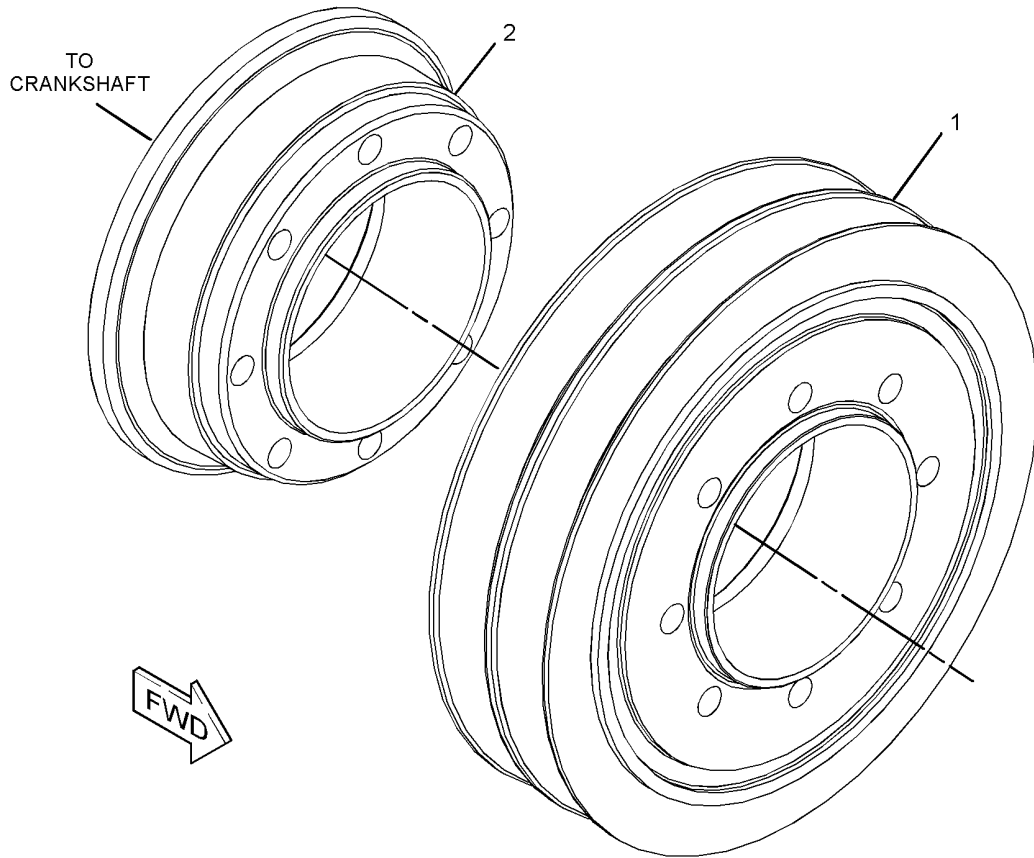
256-9754 PULLEY GP-CRANKSHAFT

AN ATTACHMENT

SMCS-1205

i02410180

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-2550	1	PULLEY						
	2	1	256-9756	1	SPACER						



GRAPHIC #1

<END>

g01205289

BASIC ENGINE

256-9755 PULLEY GP-CRANKSHAFT

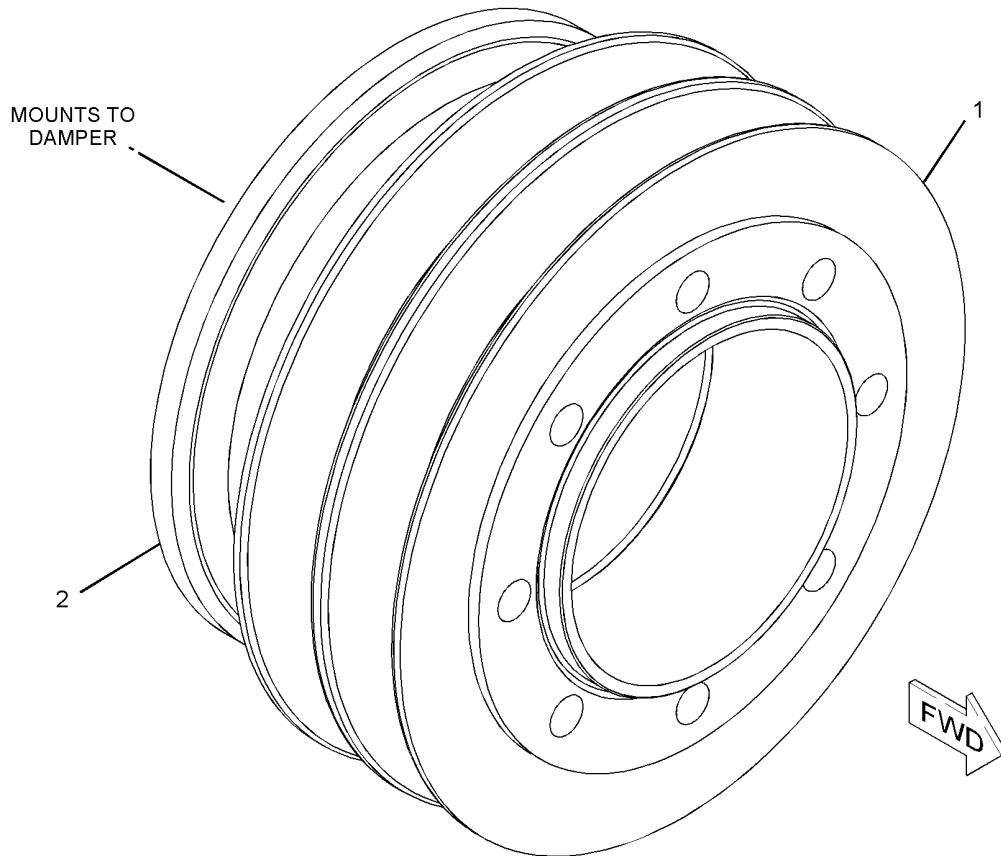
190-MM

FOR USE WITH DAMPER GP-PULLEY, FASTENER GP, OR PULLEY GP-AUX DRIVE
AN ATTACHMENT

SMCS-1205

i02298701

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	194-9456	1	PULLEY - CRANKSHAFT						
	2	1	256-9756	1	SPACER						



GRAPHIC #1

<END>

g01119761

BASIC ENGINE

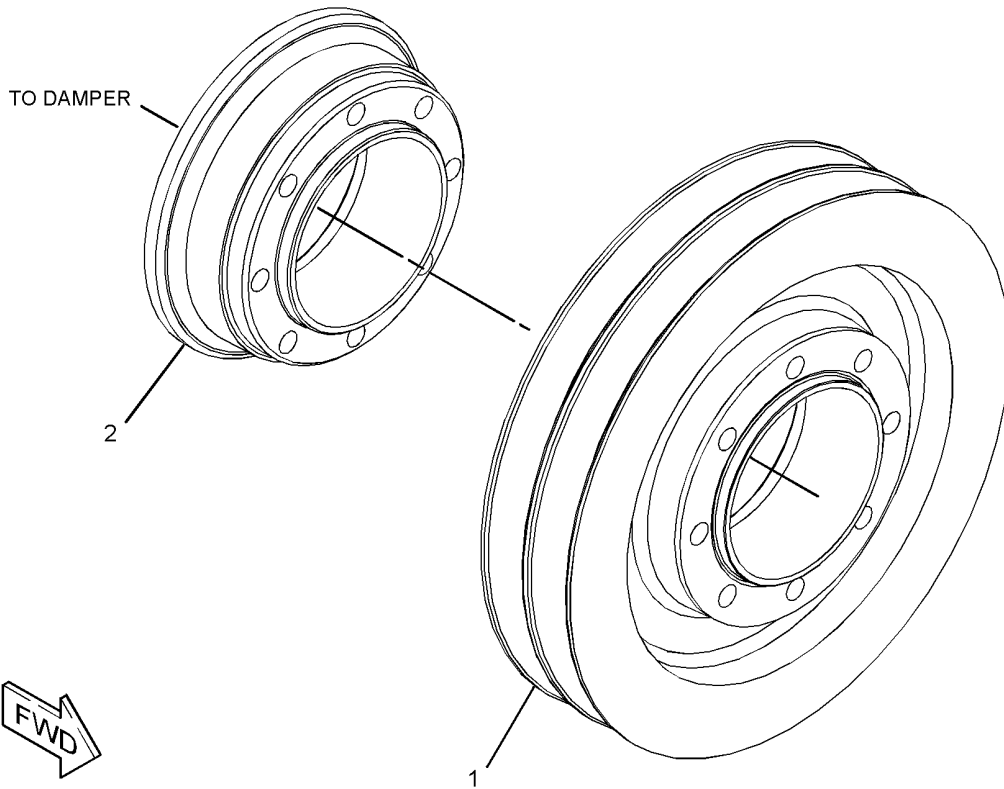
273-3850 PULLEY GP-CRANKSHAFT

1.2:1 FAN DRIVE RATIO
AN ATTACHMENT

SMCS-1205

i02431218

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						
	2	1	256-9756	1	SPACER						



GRAPHIC #1

<END>

g01217314

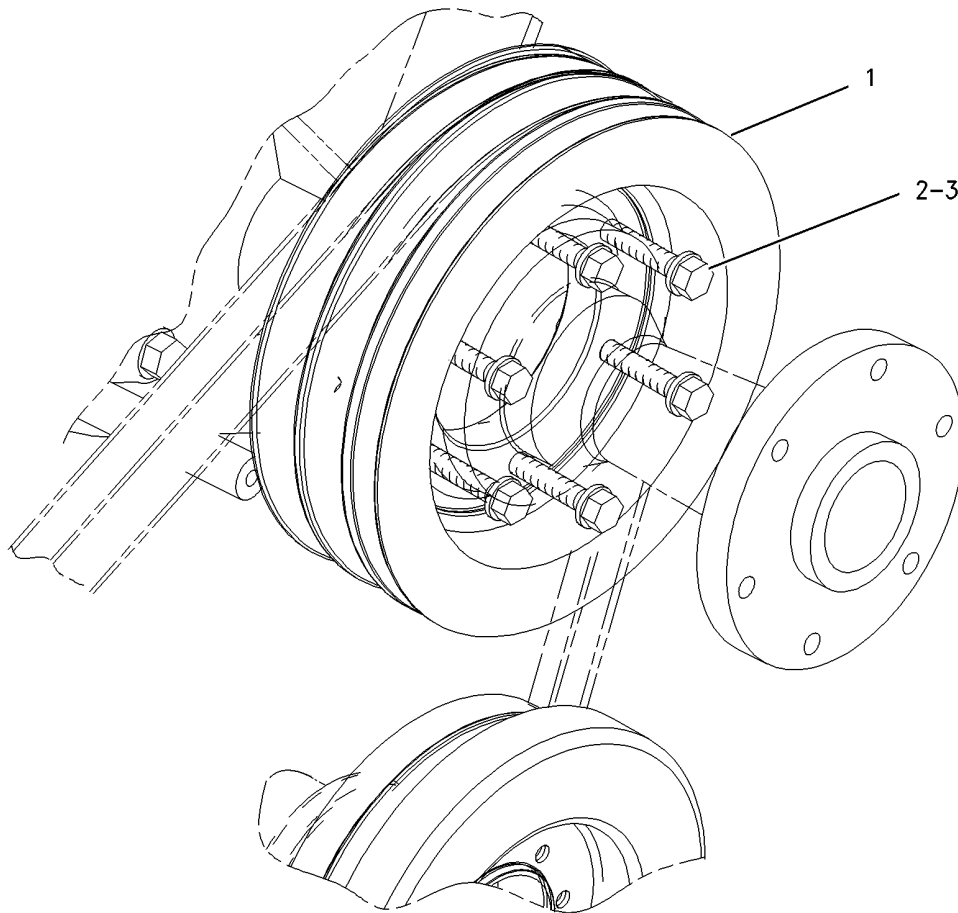
BASIC ENGINE

198-7627 PULLEY GP-FAN 230-MM DIAMETER AN ATTACHMENT

SMCS-1359

i01565759

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

<END>

g00751265

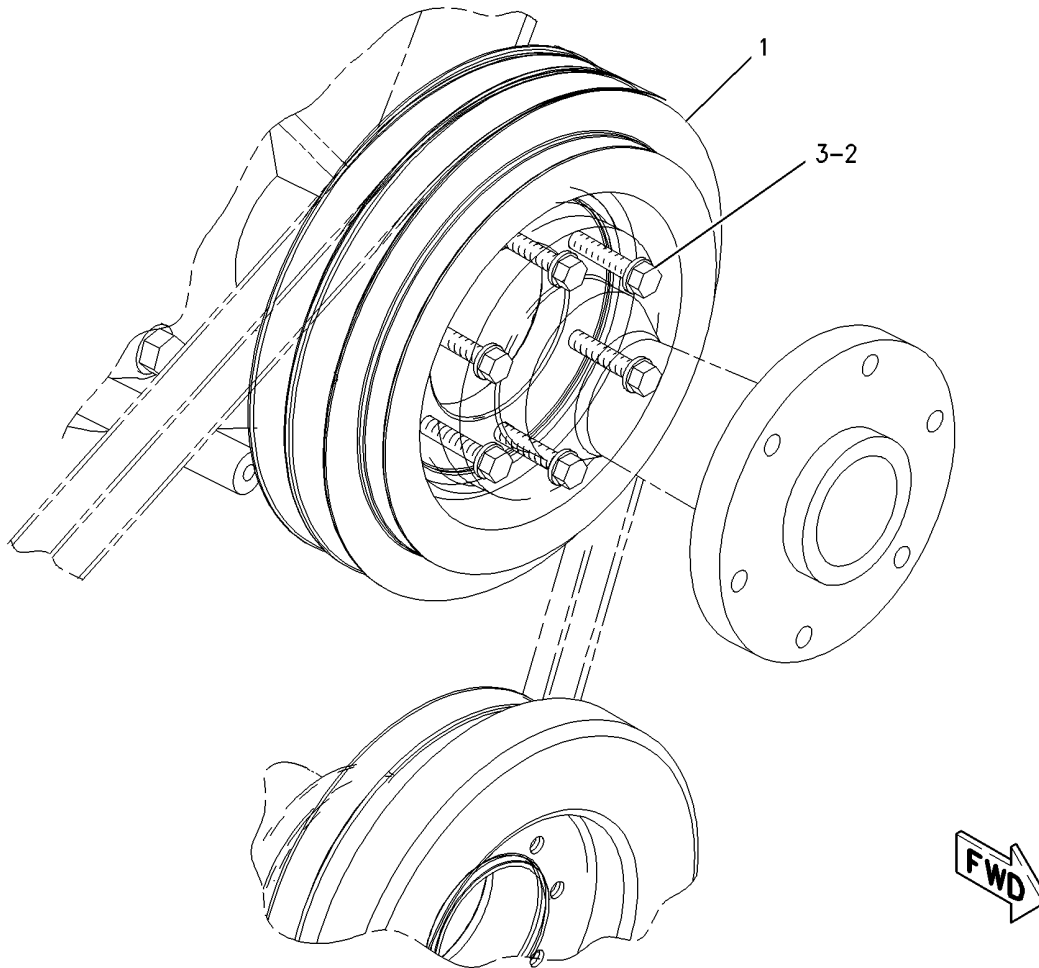
BASIC ENGINE

198-7628 PULLEY GP-FAN AN ATTACHMENT

SMCS-1359

i02118142

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 (10.2X18.5X2.5-MM THK)						
	3	1	8T-9101	6	BOLT (3/8-16X2.75-IN)						



GRAPHIC #1

<END>

g00751236

BASIC ENGINE

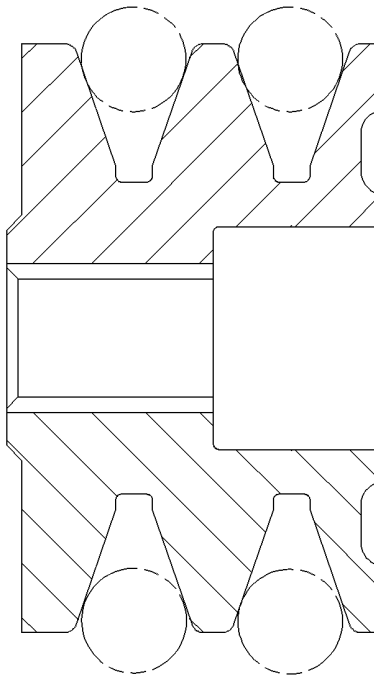
2W-8494 PULLEY-ALTERNATOR

AN ATTACHMENT

SMCS-1425

i02455722

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

<END>

g00324492

BASIC ENGINE

100-2854 PULLEY-ALTERNATOR

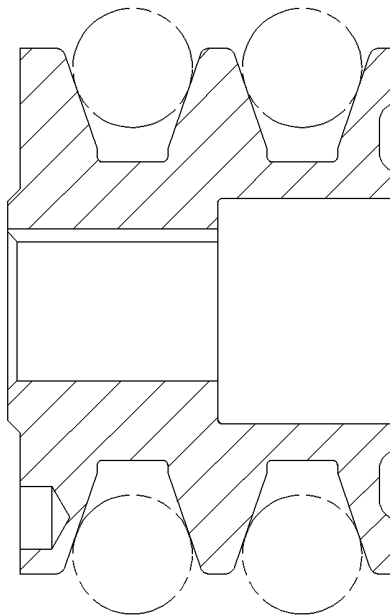
AN ATTACHMENT

SMCS-1425

i02596259

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

<END>

g00324491

BASIC ENGINE

213-9320 ROCKER ARM GP-EXHAUST

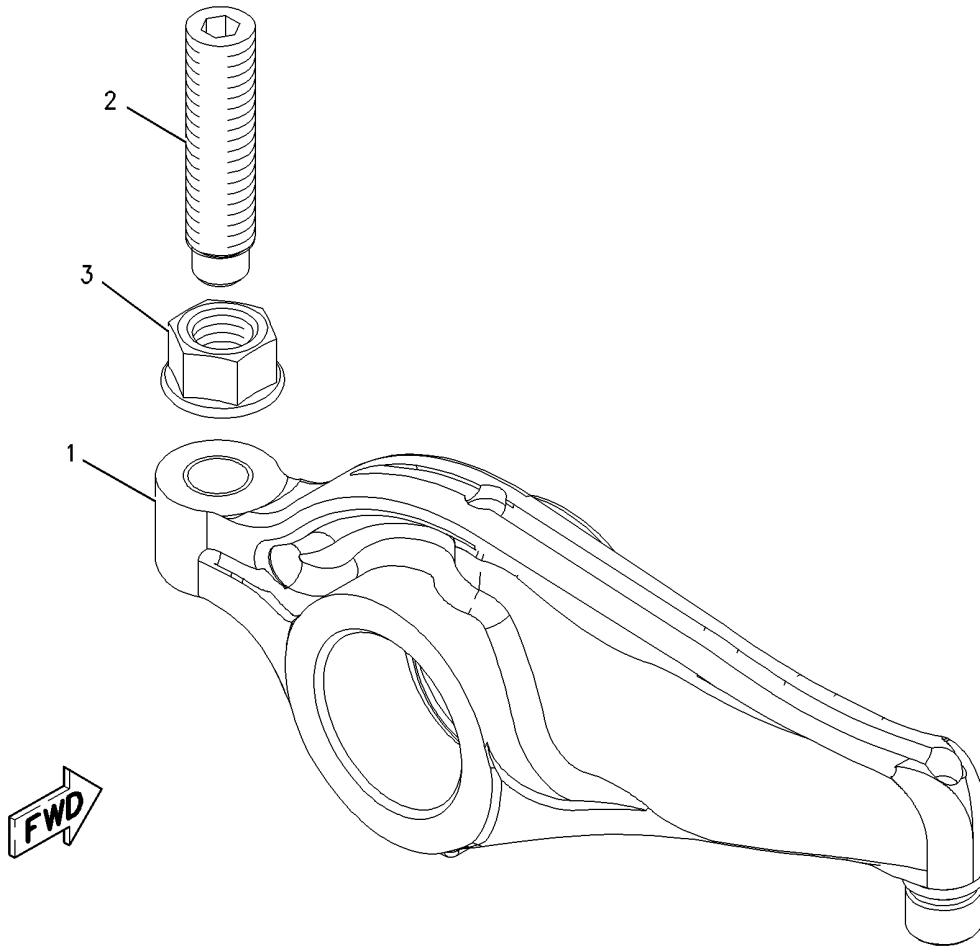
PART OF 212-8926 VALVE MECHANISM GP

SMCS-1123

i02585216

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
R	1	1	163-2447	1	ROCKER ARM AS						
	2	1	260-7524	1	SCREW-VALVE ADJUSTMENT						
M	3	1	2Y-5829	1	NUT (M10X1.15-THD)						

M-METRIC PART
R-REMG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00848359

BASIC ENGINE

242-0329 ROCKER ARM GP-INLET

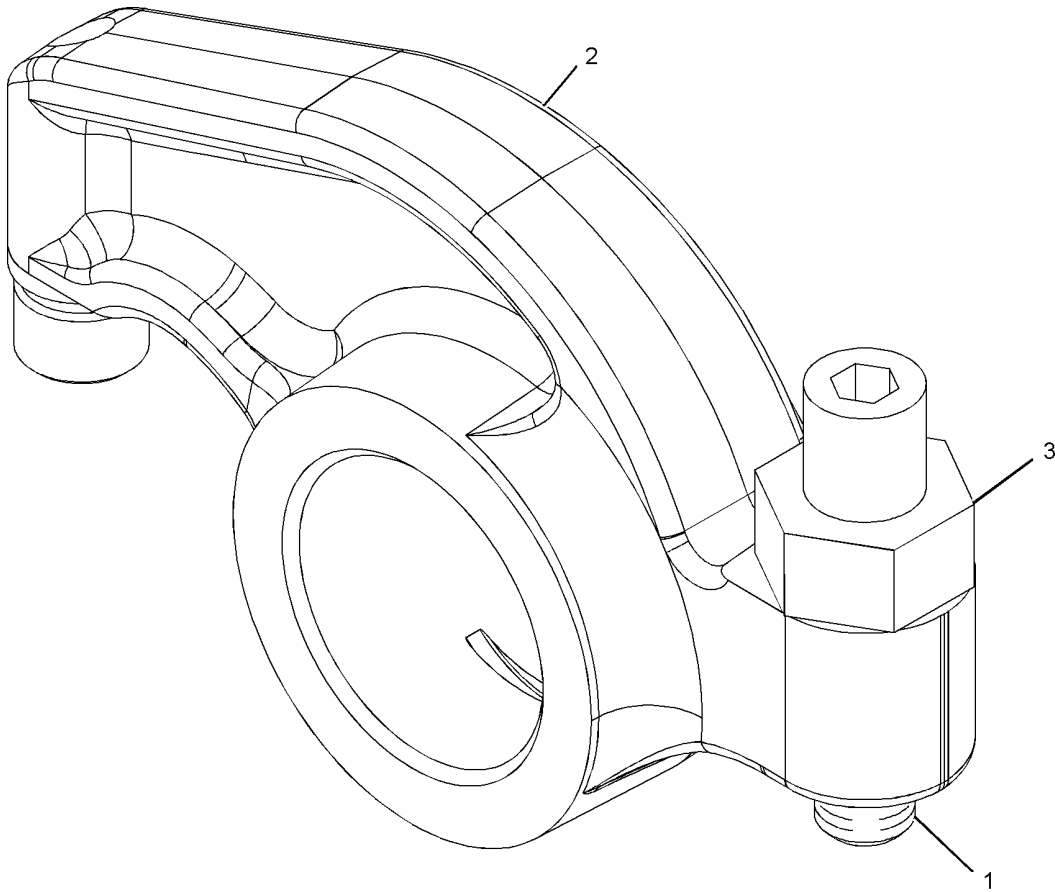
PART OF 212-8926 VALVE MECHANISM GP

SMCS-1123

i02179386

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	183-4365	1	SCREW-ADJUSTMENT (M10X1.5-THD)						
	2	1	242-0328	1	ROCKER ARM AS						
M	3	1	2Y-5829	1	NUT (M10X1.5-THD)						

M-METRIC PART



GRAPHIC #1

<END>

g01056688

BASIC ENGINE

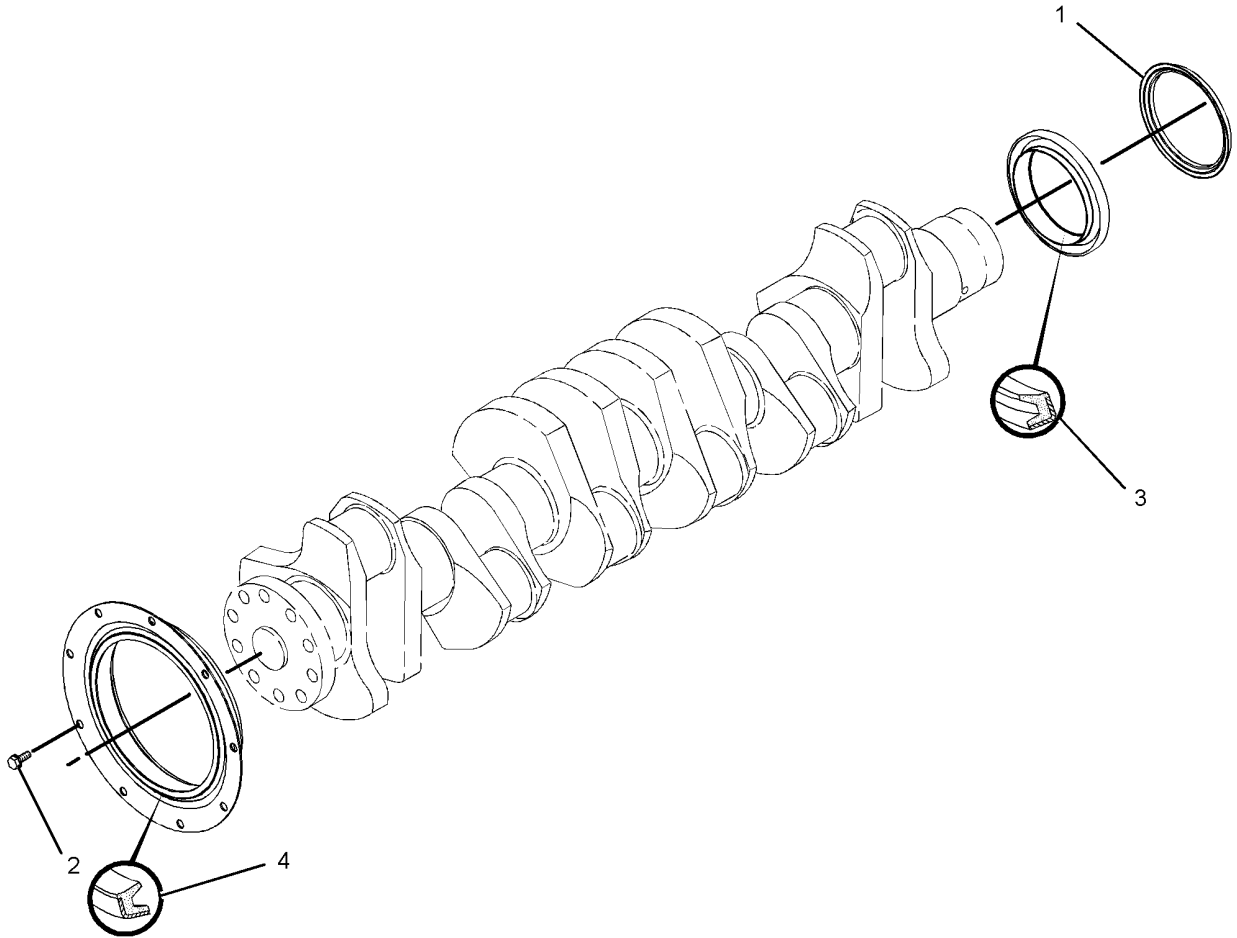
178-3899 SEAL GP-CRANKSHAFT

AN ATTACHMENT

SMCS-1160, 1161

i02492381

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4R-9999	1	EXCLUDER - CRANKSHAFT SEAL						
	2	1	206-3719	9	BOLT AS						
	3	1	245-7339	1	SEAL - CRANKSHAFT (FRONT)						
	4	1	285-4073	1	SEAL GP - CRANKSHAFT						



GRAPHIC #1

<END>

g01250958

BASIC ENGINE

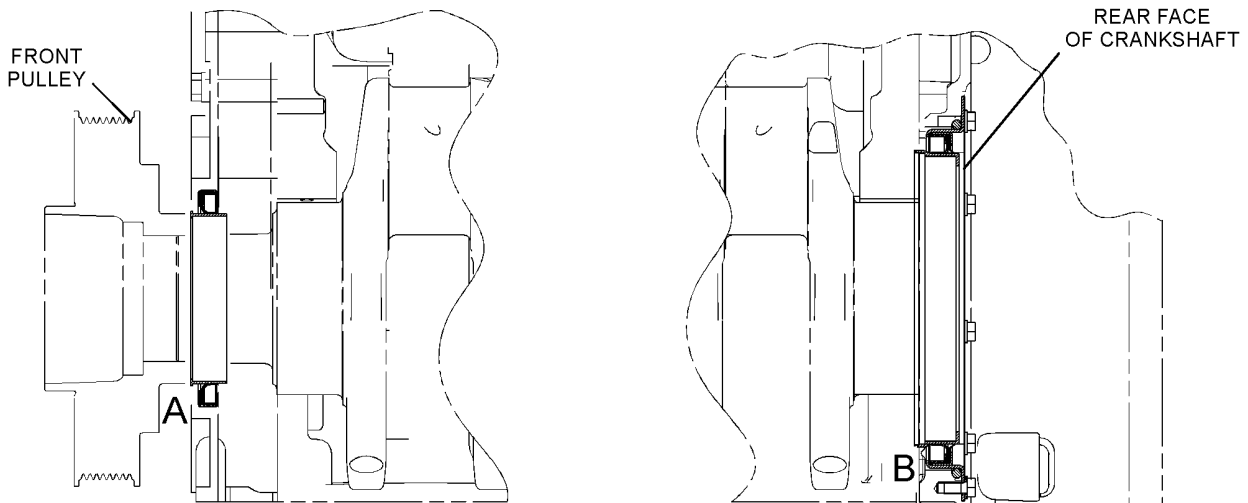
187-6508 SEAL GP-CRANKSHAFT

AN ATTACHMENT

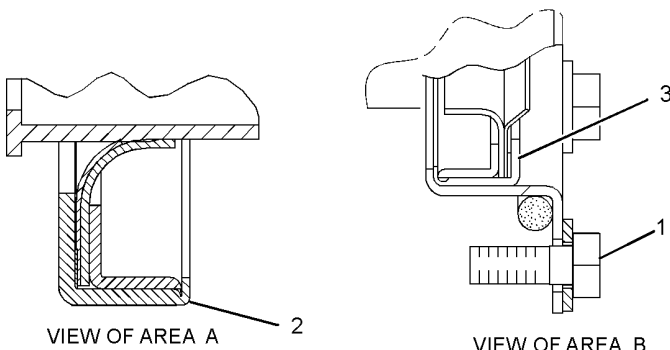
SMCS-1160, 1161

i02492504

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	206-3719	9	BOLT AS						
	2	1	245-7339	1	SEAL - CRANKSHAFT (FRONT)						
	3	1	285-4073	1	SEAL GP - CRANKSHAFT (REAR)						



LEFT SIDE VIEW



GRAPHIC #1

g01250859

BASIC ENGINE

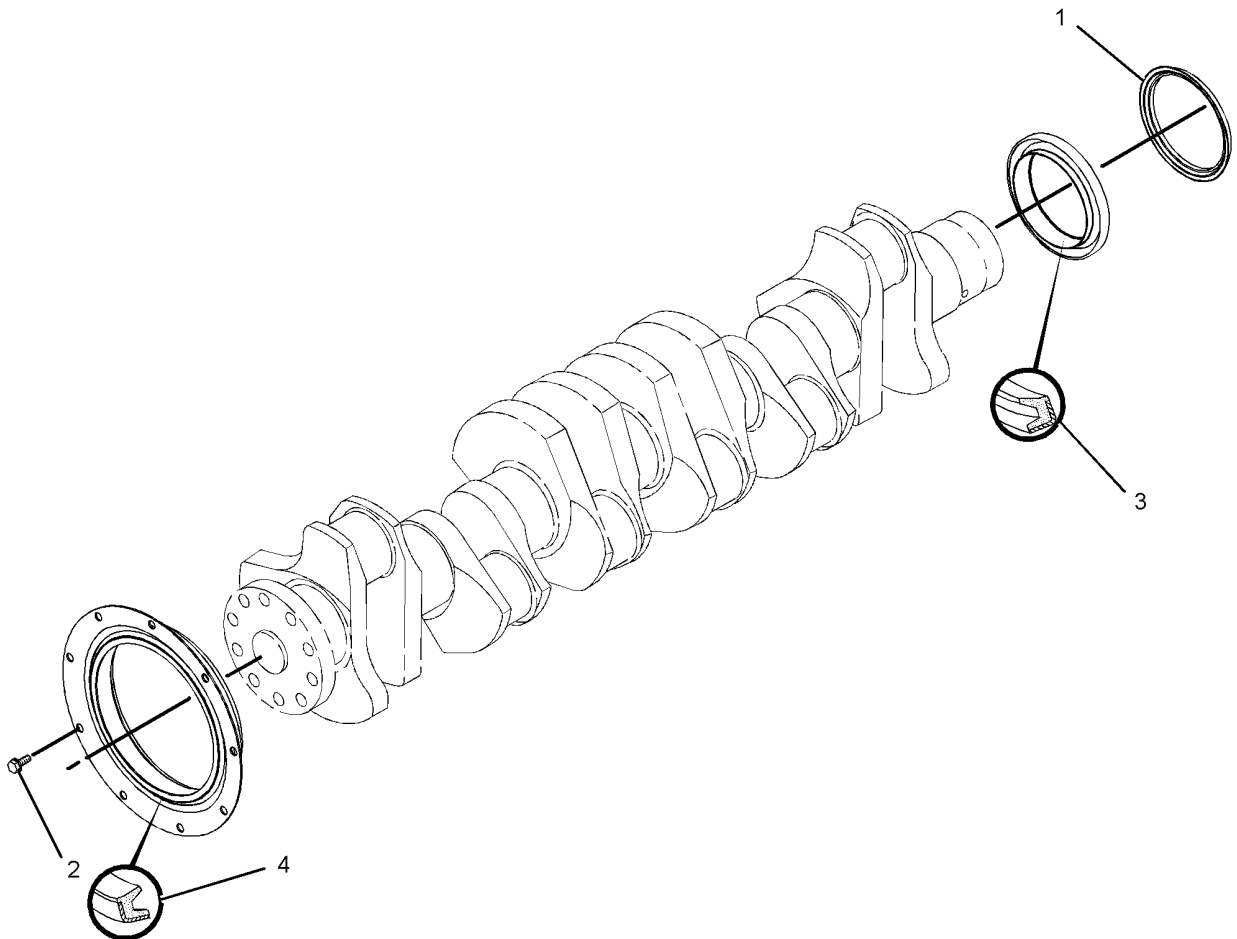
189-9306 SEAL GP-CRANKSHAFT AN ATTACHMENT

SMCS-1160, 1161

i02549585

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4R-9999	1	EXCLUDER - CRANKSHAFT SEAL						
	2	1	206-3719	9	BOLT AS						
	3	1	245-7339	1	SEAL - CRANKSHAFT (FRONT)						
Y	4	1	285-4074	1	SEAL GP-CRANKSHAFT (REAR)						165

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01250958

BASIC ENGINE

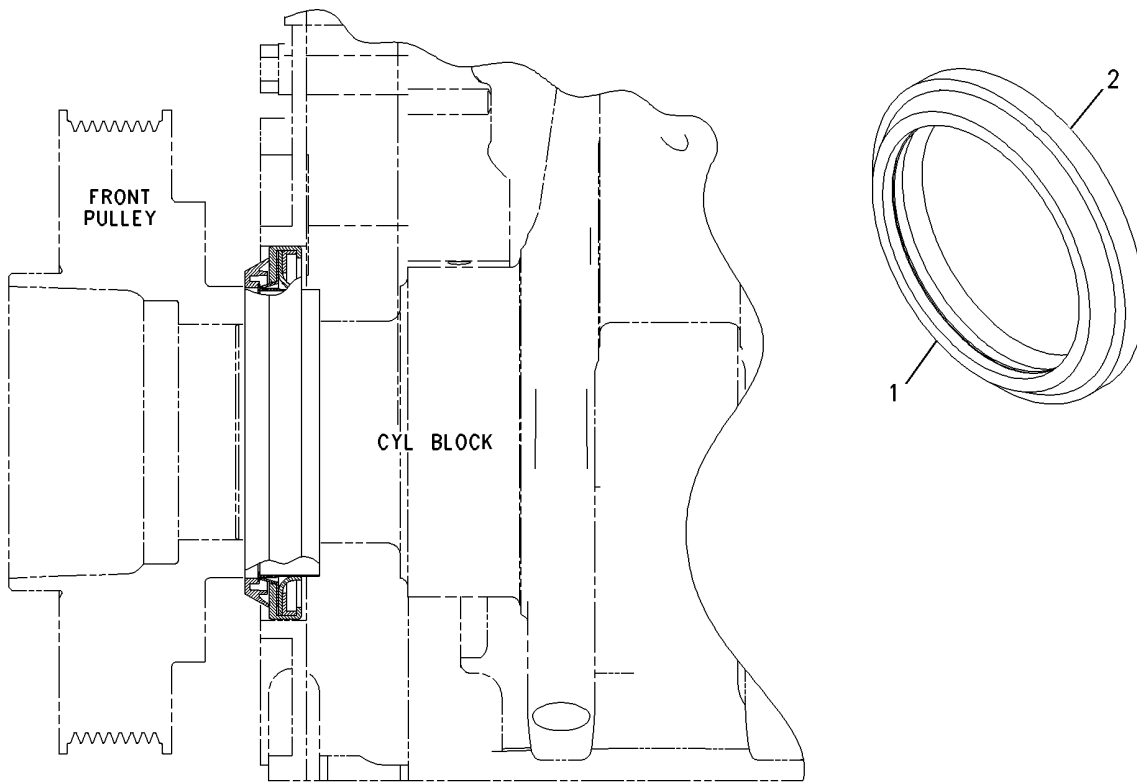
217-2684 SEAL GP-CRANKSHAFT

AN ATTACHMENT

SMCS-1160, 1161

i02493654

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4R-9999	1	EXCLUDER-CRANKSHAFT SEAL						
	2	1	245-7339	1	SEAL-CRANKSHAFT (FRONT)						



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00976044

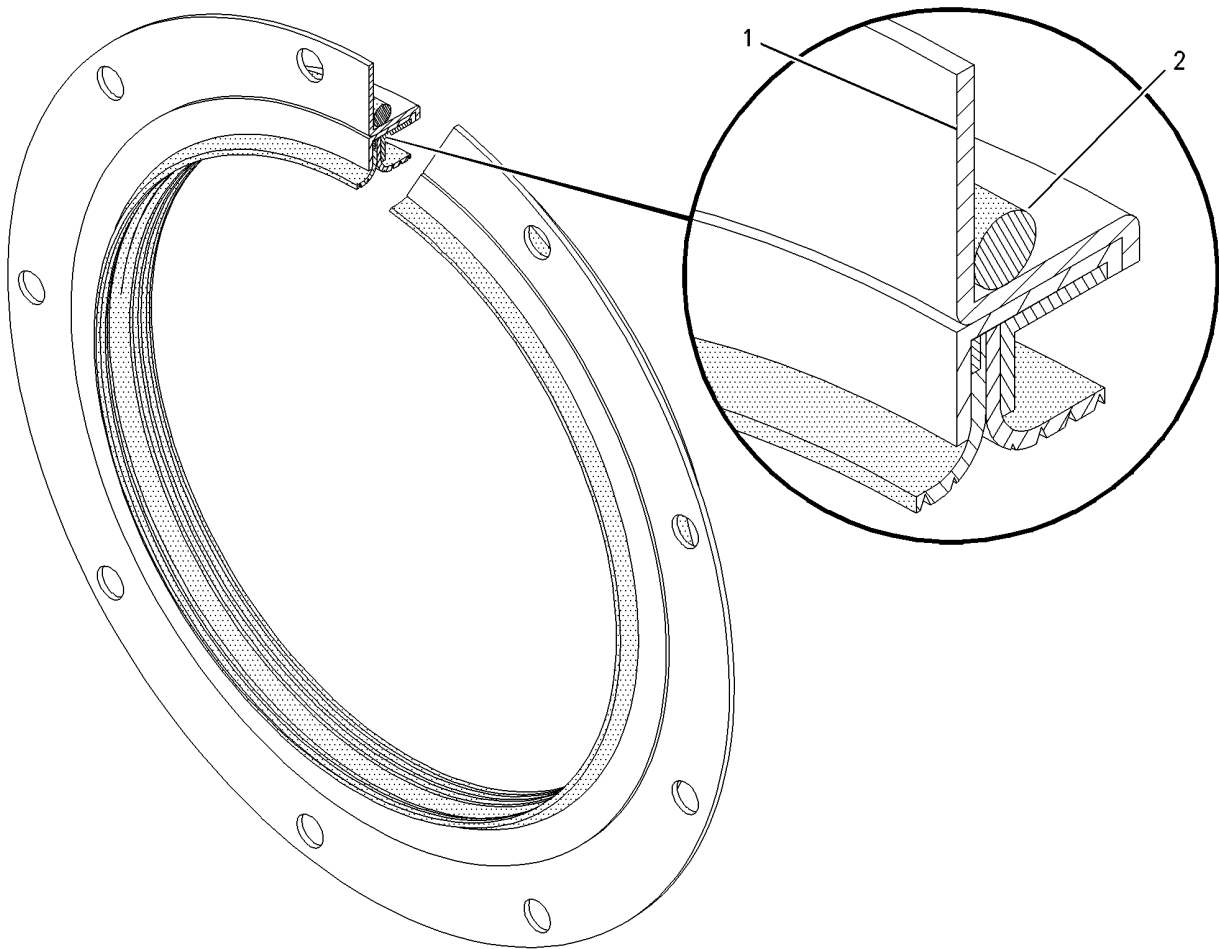
BASIC ENGINE

285-4074 SEAL GP-CRANKSHAFT PART OF 189-9306 SEAL GP-CRANKSHAFT AN ATTACHMENT

SMCS-1160, 1161

i02549577

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	187-8971	1	SEAL GP-CRANKSHAFT						
	2	1	107-6280	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00985056

BASIC ENGINE

131-2202 SUPPORT GP-ENGINE

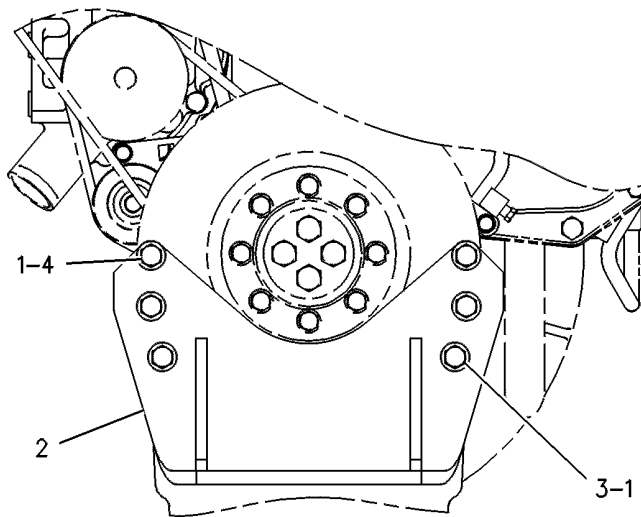
AN ATTACHMENT

SMCS-1154

i02179782

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-8245	6	WASHER-HARD (13.5X25.5X3-MM THK)						
	2	1	131-2192	1	SUPPORT AS-FRONT						
M	3	1	6V-5696	5	BOLT (M12X1.75X80-MM)						
M	4	1	6V-8336	1	BOLT (M12X1.75X70-MM)						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

<END>

g00243753

BASIC ENGINE

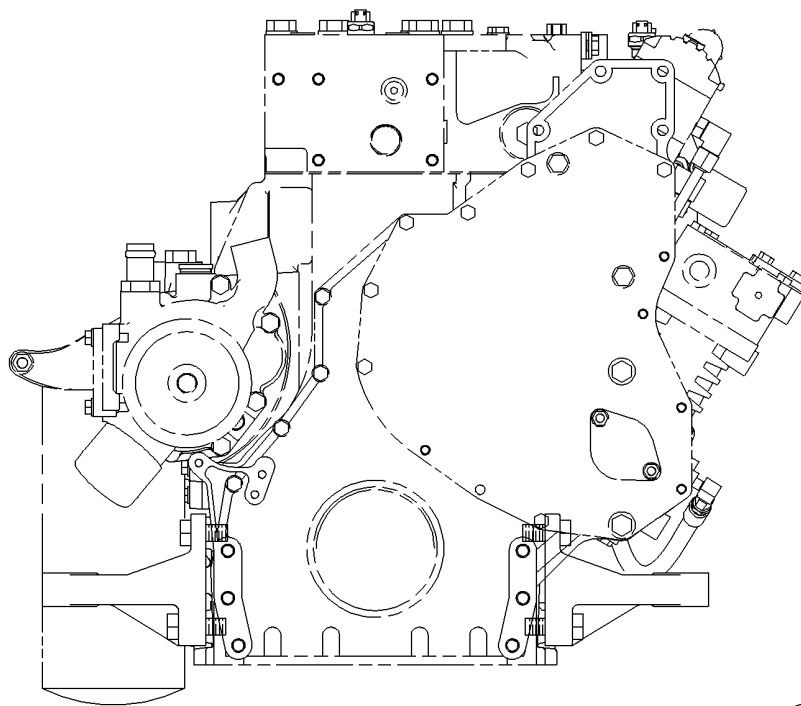
185-5334 SUPPORT GP-ENGINE-FRONT AN ATTACHMENT

SMCS-1154

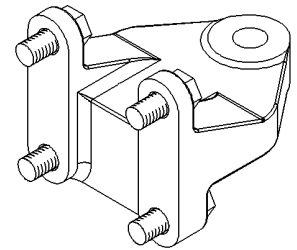
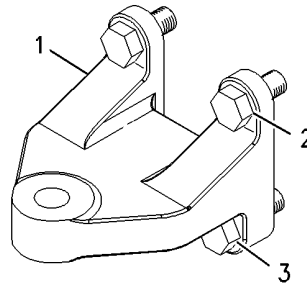
i02294218

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	205-9444	2	SUPPORT - ENGINE							
M	2	1	6V-5844	4	BOLT (M16X2X35-MM)							
M	3	1	8T-0375	4	BOLT (M16X2X45-MM)							

M-METRIC PART



FRONT VIEW



ISOMETRIC VIEW

GRAPHIC #1

<END>

g00992882

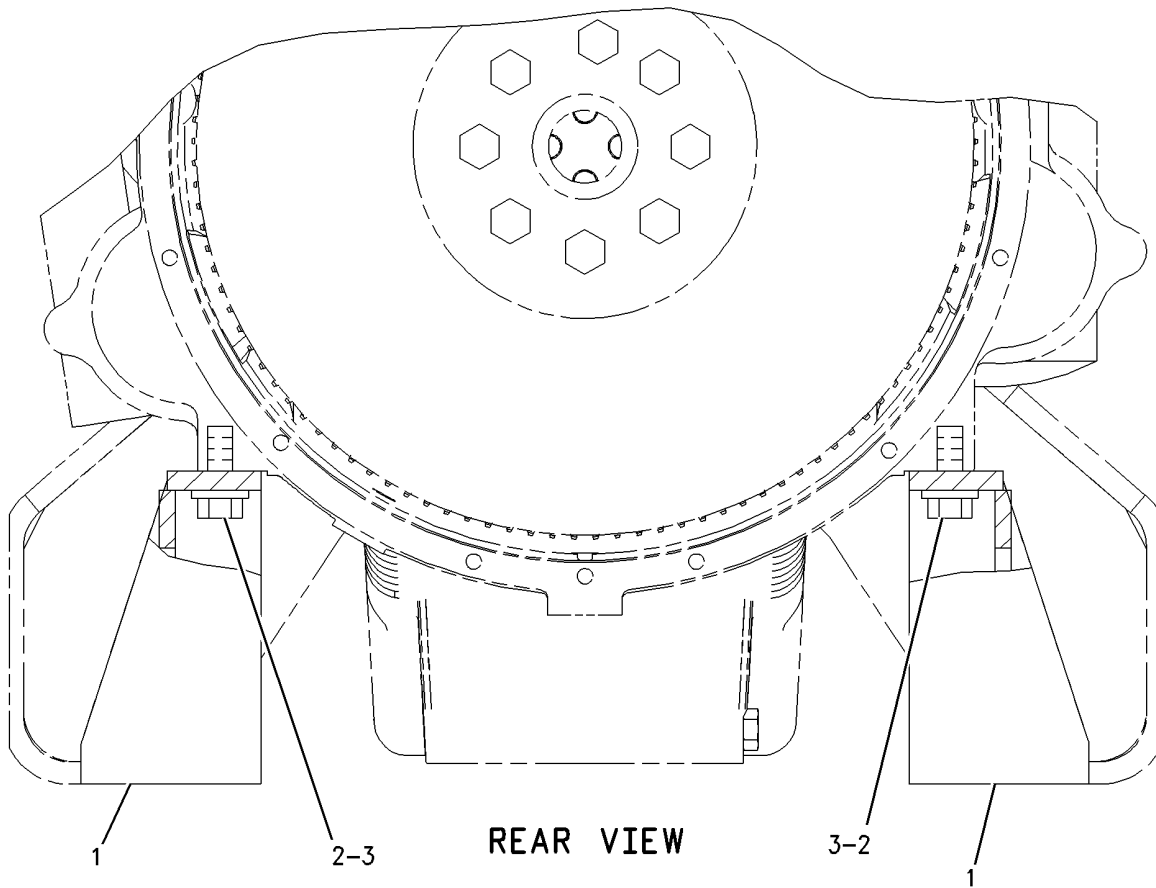
BASIC ENGINE

197-0640 SUPPORT GP-ENGINE-REAR AN ATTACHMENT

SMCS-1154

i02505585

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	197-0639	2	SUPPORT AS-REAR						
	2	1	0S-1589	4	BOLT (5/8-11X1.75-IN)						
	3	1	2S-7593	4	WASHER-HARD (17X35X5-MM THK)						



GRAPHIC #1

<END>

g00755191

BASIC ENGINE

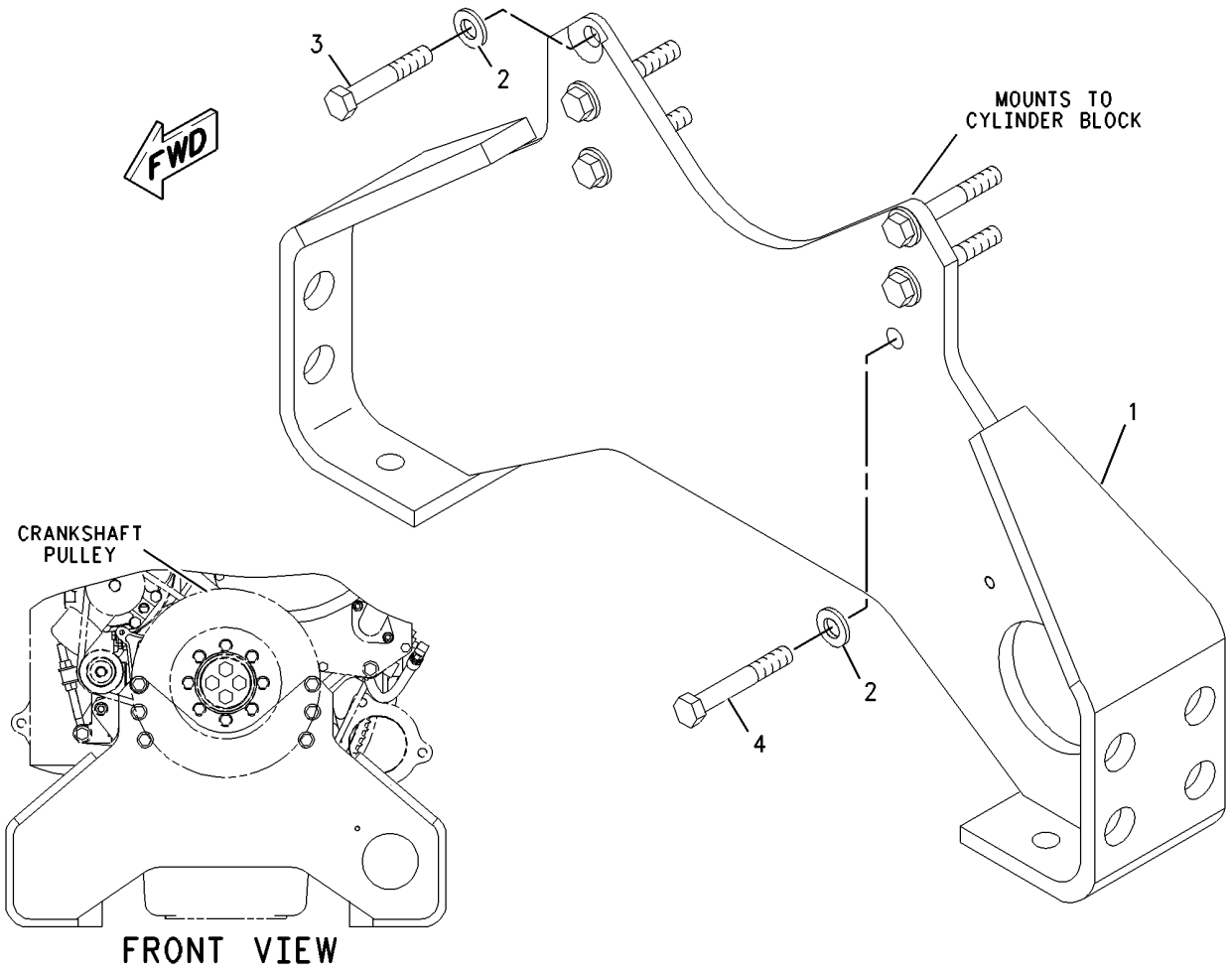
230-2540 SUPPORT GP-ENGINE-FRONT AN ATTACHMENT

SMCS-1154

i02504756

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-2541	1	SUPPORT AS-FRONT						
	2	1	8T-4223	6	WASHER-HARD (13.5X25.5X3-MM THK)						
M	3	1	8T-4648	1	BOLT (M12X1.75X70-MM)						
M	4	1	8T-6868	5	BOLT (M12X1.75X80-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00989635

BASIC ENGINE

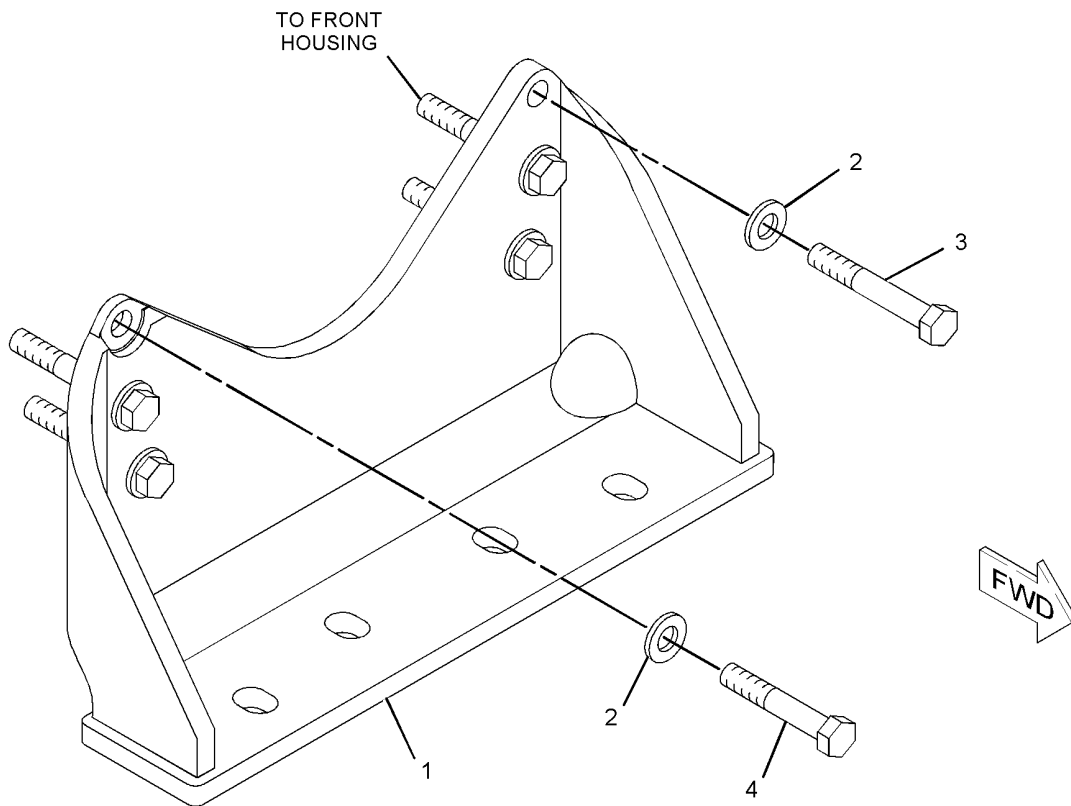
266-0772 SUPPORT GP-ENGINE-FRONT AN ATTACHMENT

SMCS-1154

i02346451

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	256-9760	1	SUPPORT - FRONT						
	2	1	5P-8245	6	WASHER - HARD (13.5X25.5X3-MM THK)						
M	3	1	6V-5696	5	BOLT (M12X1.75X80-MM)						
M	4	1	6V-8336	1	BOLT (M12X1.75X70-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01140393

BASIC ENGINE

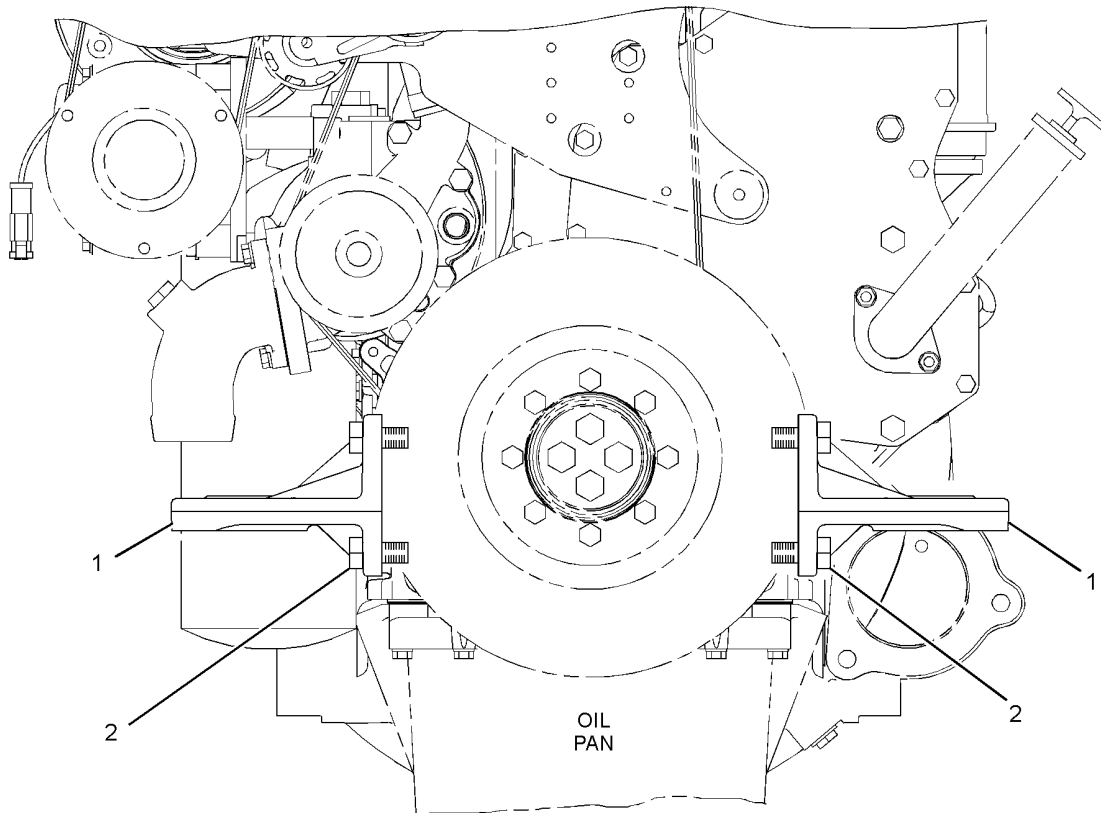
270-8447 SUPPORT GP-ENGINE-FRONT AN ATTACHMENT

SMCS-1154

i02509500

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	270-8448	2	SUPPORT-ENGINE (FRONT)						
M	2	1	6V-5844	8	BOLT (M16X2X35-MM)						

M-METRIC PART



FRONT VIEW

GRAPHIC #1

<END>

g01256236

BASIC ENGINE

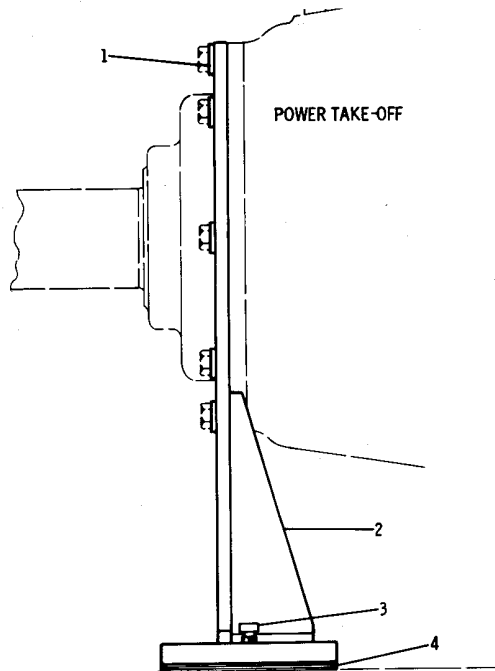
5N-1678 SUPPORT GP-POWER TAKE-OFF AN ATTACHMENT

SMCS-1165

i02549968

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4D-3704	8	WASHER-HARD (17X30X5-MM THK)						
	2	1	5N-1677	1	SUPPORT AS						
	3	1	4B-3586	2	SETSCREW (1/2-13X2-IN)						
B	4	1	5N-1693	6	SHIM (0.5-MM THK)						
B		1	5N-1694	12	SHIM (0.8-MM THK)						

B-USE AS REQUIRED



GRAPHIC #1

<END>

g00136031

BASIC ENGINE

2P-1388 V-BELT SET-2 BELTS

1626 MM (64 IN) LG
AN ATTACHMENT

SMCS-1357

i02504974

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

4N-3587 V-BELT SET-2 BELTS

1676 MM (66 IN) LG
AN ATTACHMENT

SMCS-1357

i02568470

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

7M-0185 V-BELT SET-2 BELTS

1880 MM (74 IN) LG
AN ATTACHMENT

SMCS-1357

i02568545

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

7M-0981 V-BELT SET-2 BELTS

1651 MM (65 IN) LG
AN ATTACHMENT

SMCS-1357

i02505148

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

7M-4707 V-BELT SET-2 BELTS

1803 MM (71 IN) LG
AN ATTACHMENT

SMCS-1357

i02251880

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

BASIC ENGINE

7M-4716 V-BELT SET-2 BELTS

1600-MM (63-INCH) LG
AN ATTACHMENT

SMCS-1357

i02568551

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

7M-4719 V-BELT SET-2 BELTS

1816 MM (71.5 IN) LG
AN ATTACHMENT

SMCS-1357

i02381104

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

9M-7221 V-BELT SET-2 BELTS

1600-MM (63-INCH) LG
AN ATTACHMENT

SMCS-1357

i02568557

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

BASIC ENGINE

212-8926 VALVE MECHANISM GP

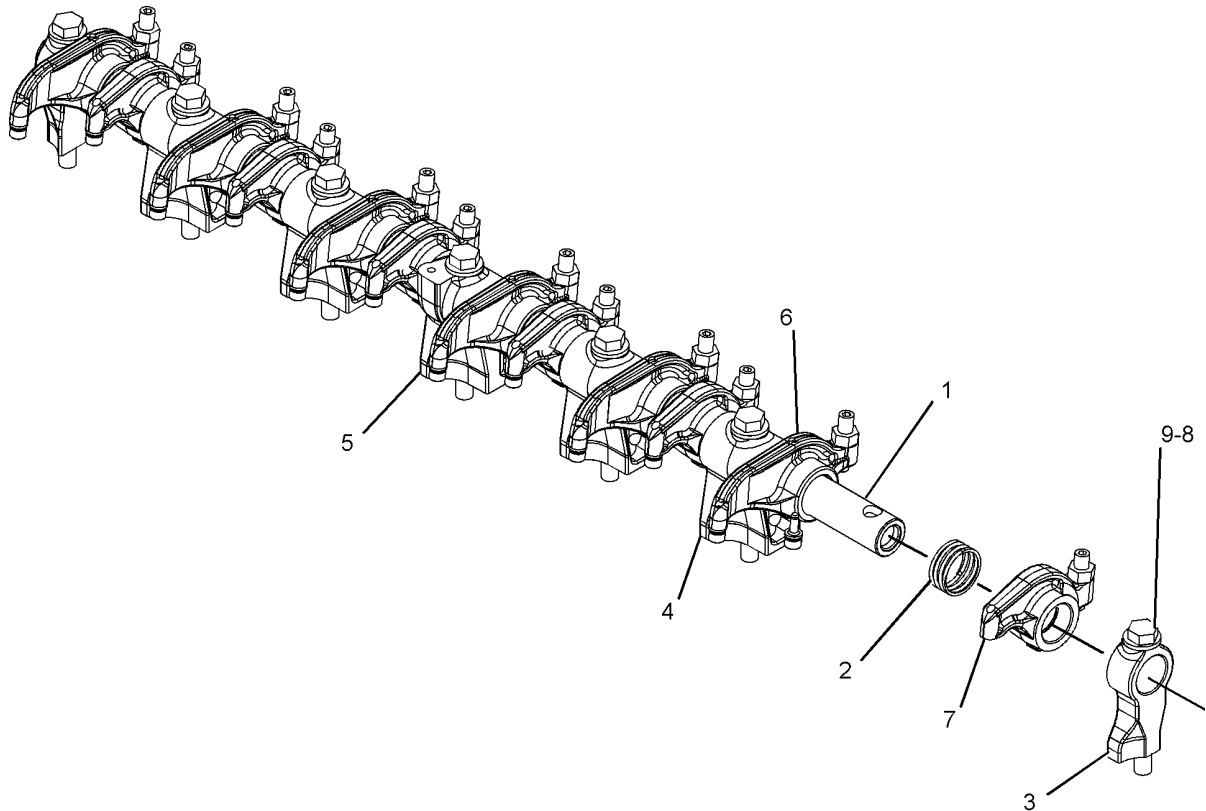
PART OF 242-0447 VALVE MECHANISM GP

SMCS-1102, 1121, 1123

i02178521

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		
	1	1	163-2445	1	SHAFT AS-ROCKER ARM								
		1	8F-6575	2	PLUG-CUP								
	2	1	163-2459	6	SPRING								
	3	1	164-5669	2	STAND (END)								
	4	1	176-5913	4	STAND (MIDDLE)								
	5	1	176-5914	1	STAND (OIL)								
Y	6	1	213-9320	6	ROCKER ARM GP (EXHAUST)								159
Y	7	1	242-0329	6	ROCKER ARM GP (INLET)								160
	8	1	5P-8245	7	WASHER-HARD (13.5X25.5X3-MM THK)								
M	9	1	8T-0646	7	BOLT (M12X1.75X110-MM)								

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01069313

BASIC ENGINE

242-0447 VALVE MECHANISM GP

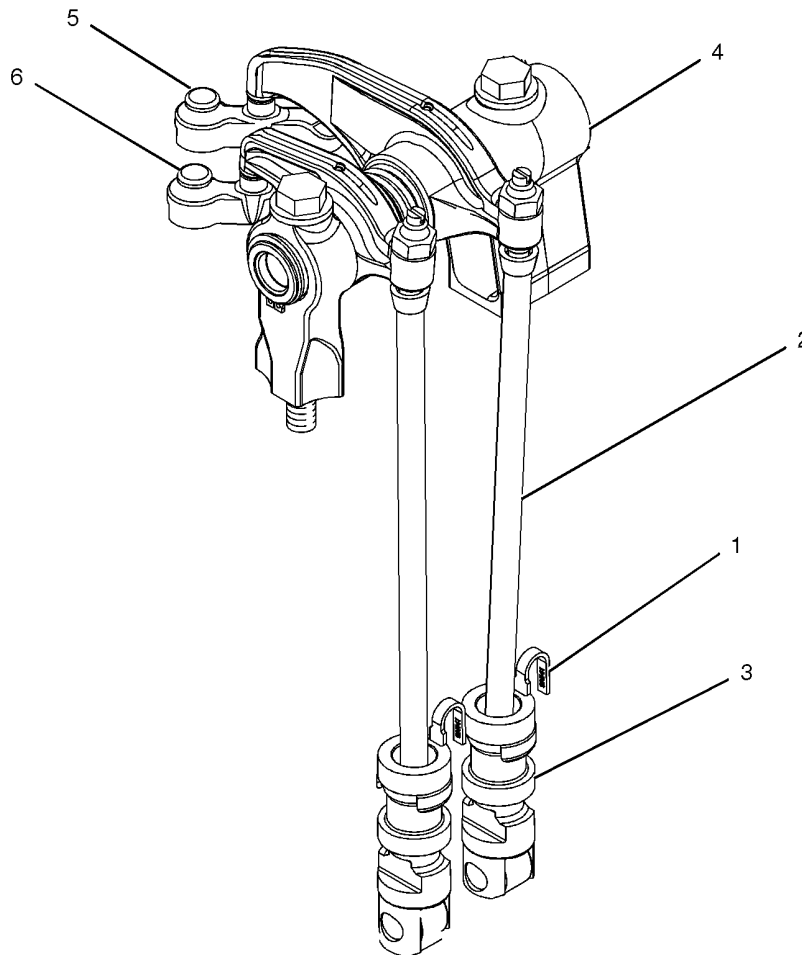
PART OF 287-3653 ENGINE AR-CORE

SMCS-1102, 1121, 1123

i02564501

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	216-1598	12	GUIDE						
	2	1	264-6156	12	ROD-VALVE PUSH						
	3	1	163-2437	12	LIFTER AS-VALVE						
Y	4	1	212-8926	1	VALVE MECHANISM GP						175
	5	1	244-5891	6	BRIDGE-VALVE						
	6	1	241-4815	6	BRIDGE-VALVE						

Y-SEPARATE ILLUSTRATION



<END>

GRAPHIC #1

g01043825

LUBRICATION SYSTEM

7W-8798 FILLER GP-ENGINE OIL

LOW FRONT, LEFT SIDE

CANNOT BE USED WITH 118-1727-PAGE 29

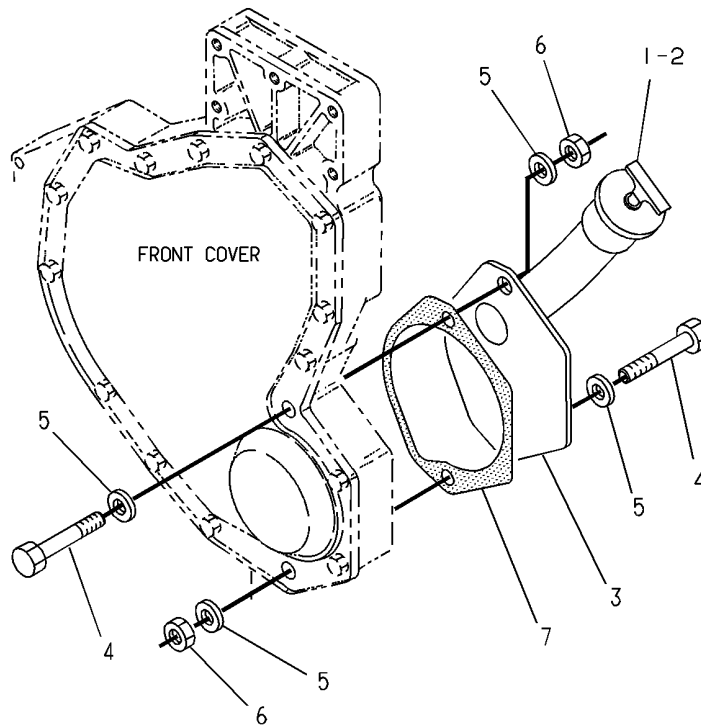
AN ATTACHMENT

SMCS-1316

i02302719

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5L-2952	1	CAP AS-FILLER (ENGINE OIL)						
	2	1	6L-2609	1	SEAL-RUBBER						
	3	1	7C-0714	1	TUBE AS-FILLER						
M	4	1	6V-8336	2	BOLT (M12X1.75X70-MM)						
	5	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
M	6	1	6V-8149	2	NUT (M12X1.75-THD)						
	7	1	135-9819	1	SEAL						

M-METRIC PART



GRAPHIC #1

<END>

g00125700

LUBRICATION SYSTEM

186-4115 FILLER GP-ENGINE OIL

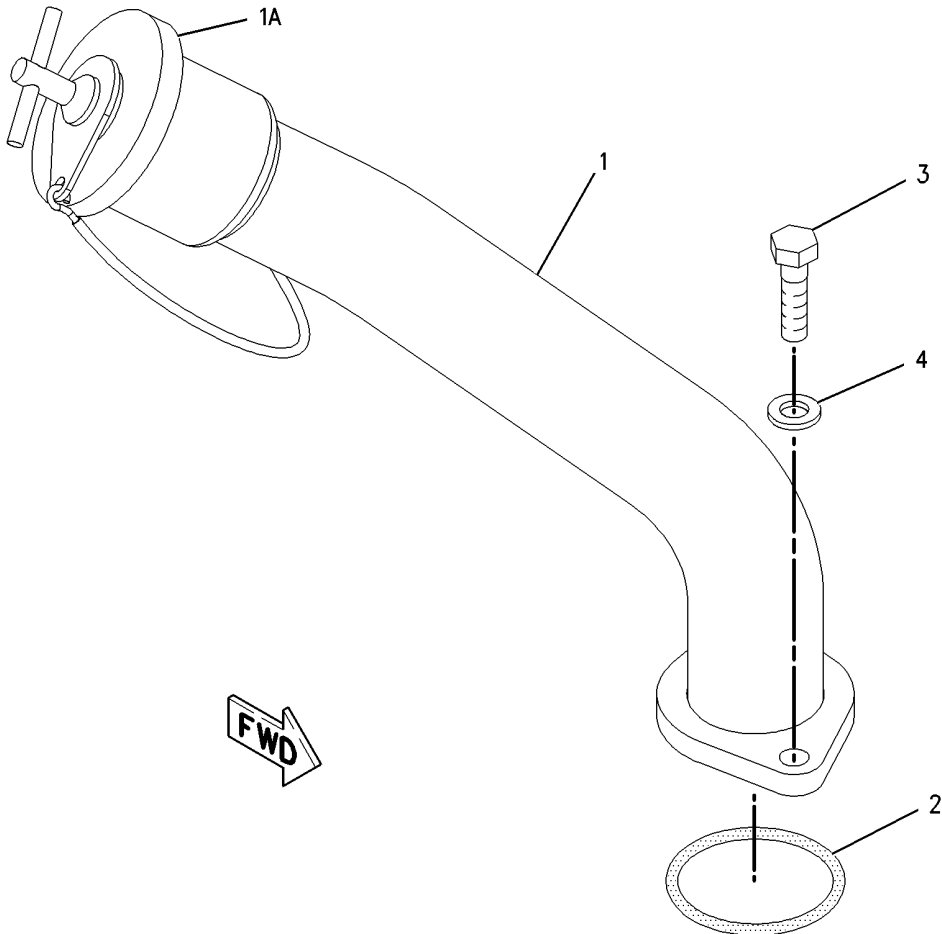
AN ATTACHMENT

SMCS-1316

i02459261

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	218-1763	1	TUBE AS						
		1	2A-3211	1	WASHER (5.5X12.3X0.8-MM THK)						
		1	4K-2089	1	RIVET-POP						
		1	4N-6045	1	LUG						
	1A	1	6N-2985	1	CAP AS-FILLER (ENGINE OIL)						
	2	1	061-9455	1	SEAL-O-RING						
M	3	1	6V-2317	2	BOLT (M8X1.25X30-MM)						
	4	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00755133

LUBRICATION SYSTEM

250-1890 FILLER GP-ENGINE OIL

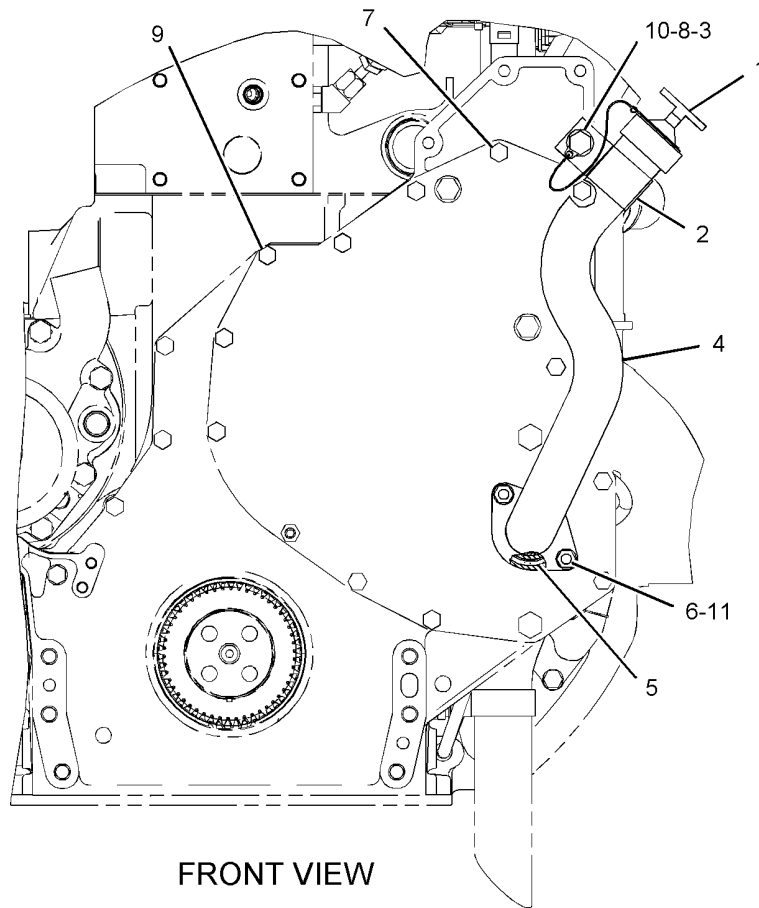
AN ATTACHMENT

SMCS-1316

i02597295

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	241-5645	1	CAP AS-FILLER (ENGINE OIL)						
	2	1	002-3448	1	CLIP						
	3	1	068-0006	1	TUBE						
	4	1	159-0286	1	TUBE AS-FILLER						
	5	1	061-9455	1	SEAL-O-RING						
M	6	1	5C-7261	2	NUT (M8X1.25-THD)						
M	7	1	6V-2317	7	BOLT (M8X1.25X30-MM)						
	8	1	6V-5839	1	WASHER (11X21X2.5-MM THK)						
M	9	1	8T-0100	1	BOLT (M8X1.25X60-MM)						
M	10	1	8T-0643	1	BOLT (M10X1.5X80-MM)						
	11	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01101009

LUBRICATION SYSTEM

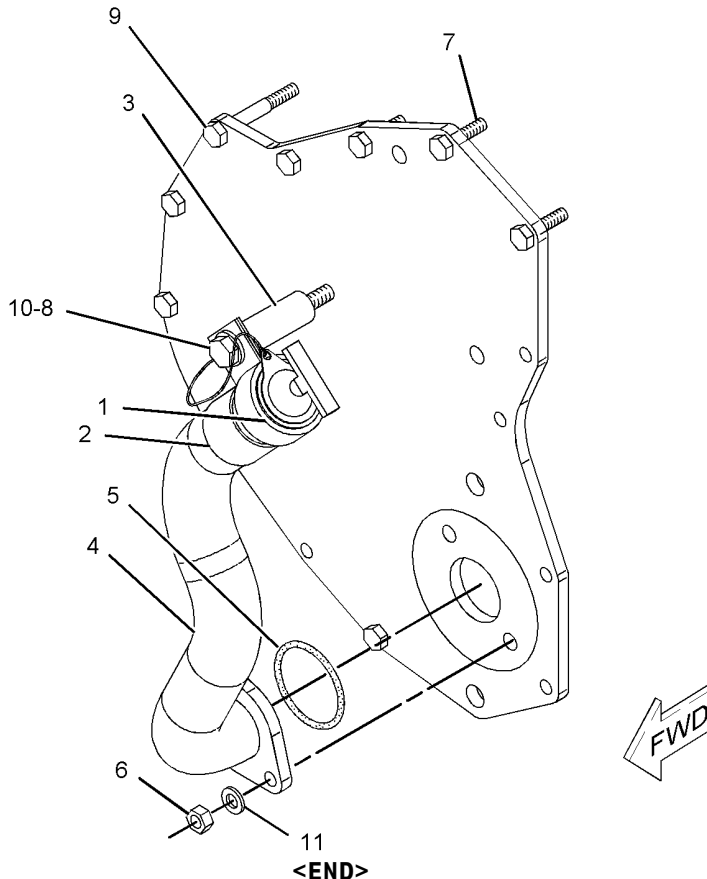
260-6891 FILLER GP-ENGINE OIL AN ATTACHMENT

SMCS-1316

i02597314

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	241-5645	1	CAP AS-FILLER (ENGINE OIL)						
	2	1	002-3448	1	CLIP						
	3	1	108-3612	1	SPACER (11.13X19.05X53-MM THK)						
	4	1	159-0286	1	TUBE AS-FILLER						
	5	1	061-9455	1	SEAL-O-RING						
M	6	1	5P-7970	2	NUT (M8X1.25-THD)						
M	7	1	6V-2317	7	BOLT (M8X1.25X30-MM)						
	8	1	6V-5839	1	WASHER (11X21X2.5-MM THK)						
M	9	1	8T-0100	1	BOLT (M8X1.25X60-MM)						
M	10	1	8T-0643	1	BOLT (M10X1.5X80-MM)						
	11	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

g01119163

LUBRICATION SYSTEM

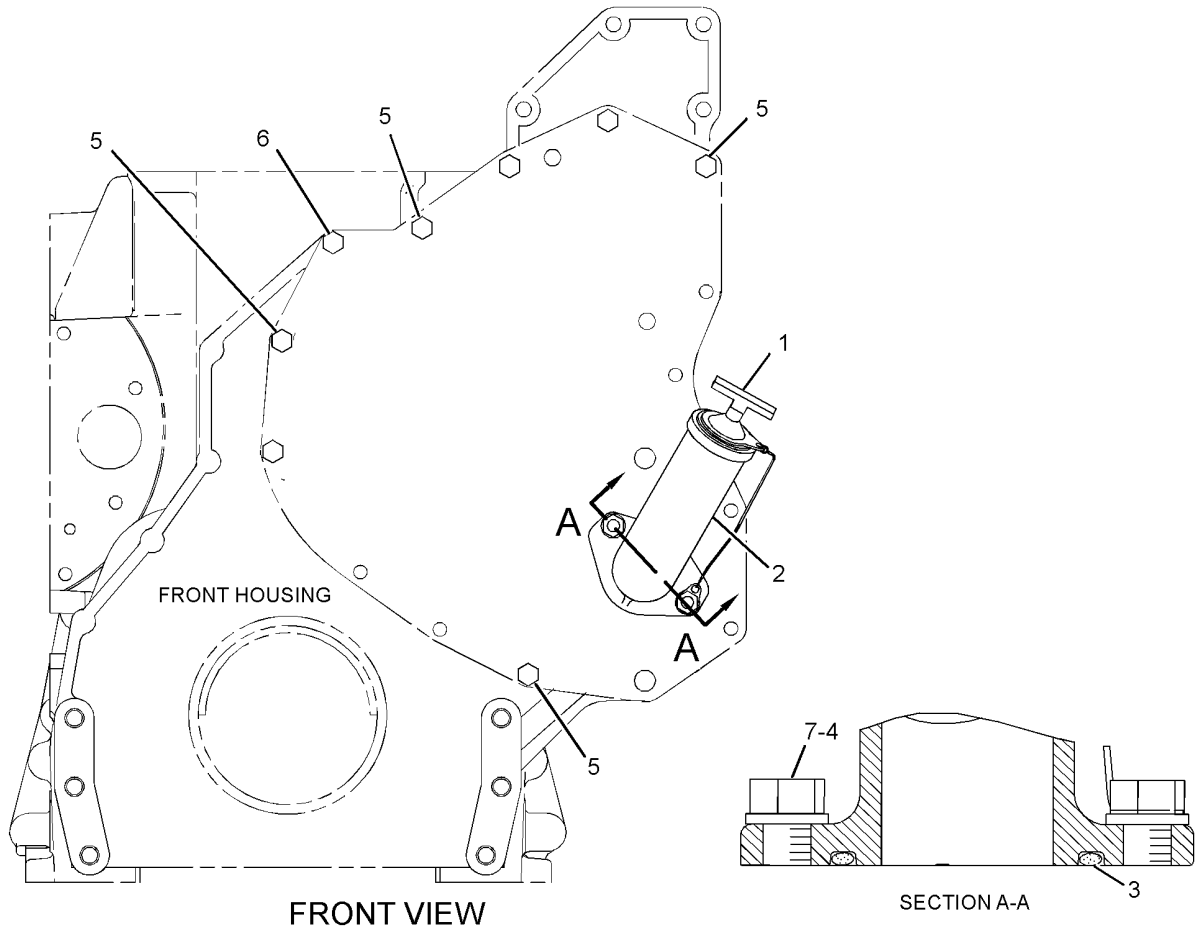
274-9990 FILLER GP-ENGINE OIL-FRONT HOUSING AN ATTACHMENT

SMCS-1316

i02597362

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	241-5645	1	CAP AS-FILLER (ENGINE OIL)						
	2	1	264-4289	1	TUBE-OIL FILLER						
	3	1	061-9455	1	SEAL-O-RING						
M	4	1	5C-7261	2	NUT (M8X1.25-THD)						
M	5	1	6V-2317	7	BOLT (M8X1.25X30-MM)						
M	6	1	8T-0100	1	BOLT (M8X1.25X60-MM)						
	7	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01252370

LUBRICATION SYSTEM

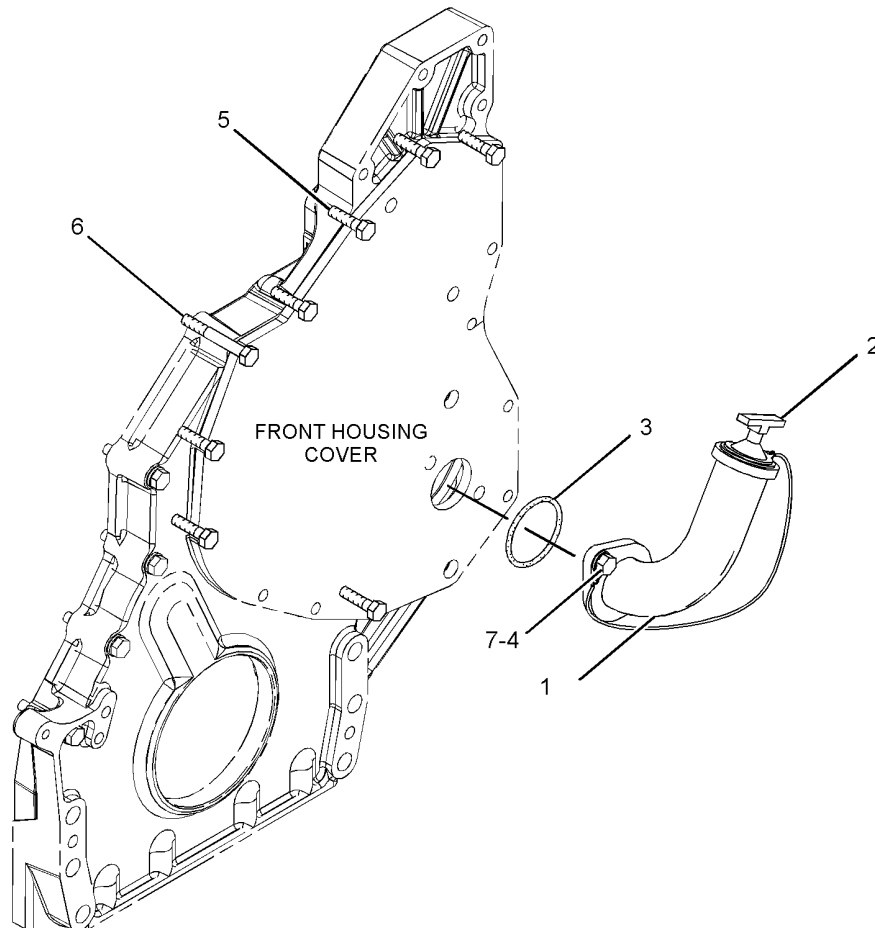
290-4668 FILLER GP-ENGINE OIL-FRONT HOUSING AN ATTACHMENT

SMCS-1316

i02597404

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	241-2942	1	TUBE AS-OIL						
	2	1	241-5645	1	CAP AS-FILLER (ENGINE OIL)						
	3	1	061-9455	1	SEAL-O-RING						
M	4	1	5C-7261	2	NUT (M8X1.25-THD)						
M	5	1	6V-2317	7	BOLT (M8X1.25X30-MM)						
M	6	1	8T-0100	1	BOLT (M8X1.25X60-MM)						
	7	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01277433

LUBRICATION SYSTEM

116-1853 FILTER GP-ENGINE OIL

AN ATTACHMENT

SMCS-1306, 1308

i02425392

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	102-5829	1	ADAPTER						
	104-7995	1	BASE GP-OIL FILTER (ENGINE)						
	2P-4304	1	STUD-HOLLOW						
	102-5828	1	COVER						
	030-7951	4	ELBOW-FLARED						
	1R-1808	1	FILTER AS-ENGINE OIL						
I	9L-5709	2	HOSE AS						
	5P-7701	4	SEAL-O-RING						
	6V-3908	2	SEAL-O-RING						

I-REFER TO HYDRAULIC INFORMATION SYSTEM

<END>

LUBRICATION SYSTEM

201-9778 FILTER GP-ENGINE OIL

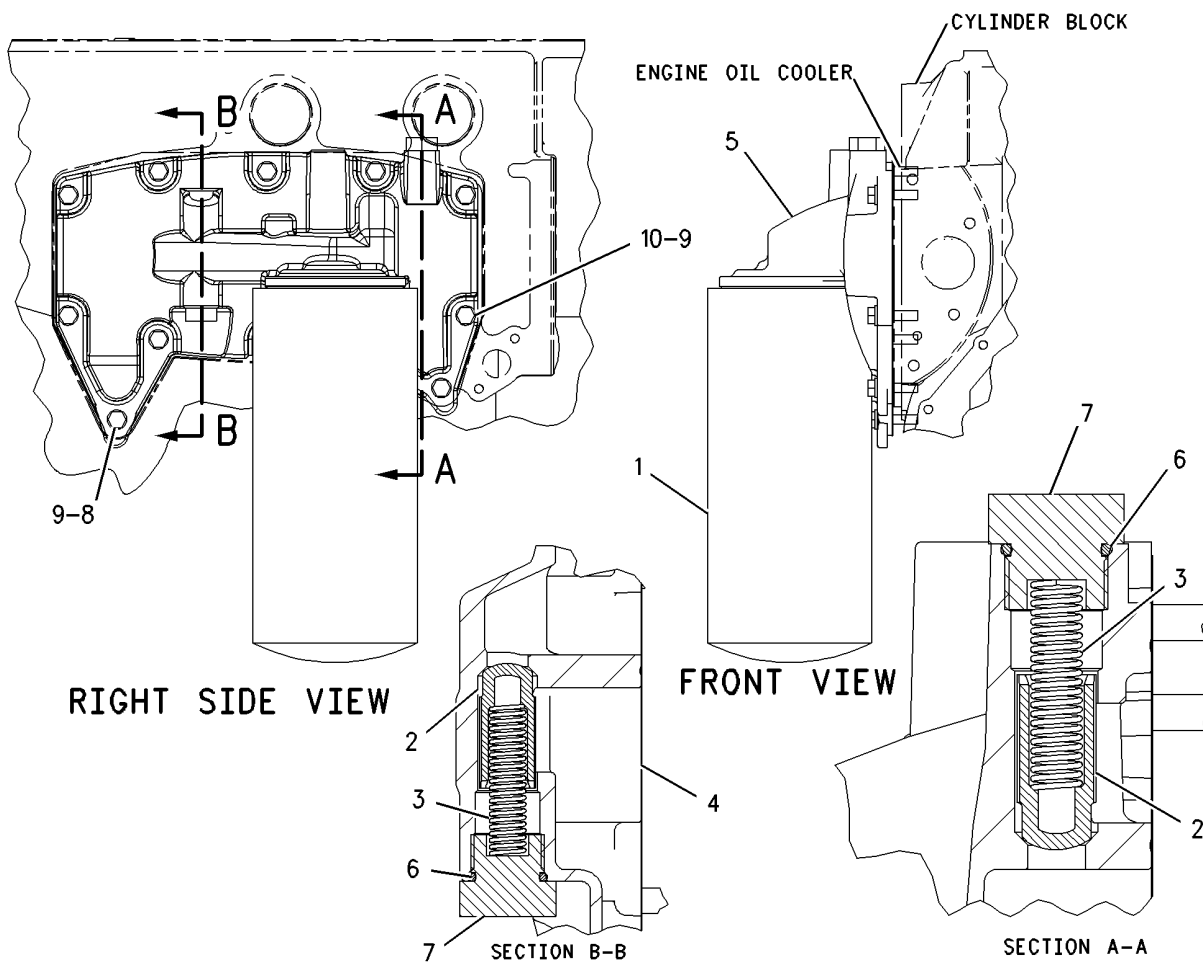
AN ATTACHMENT

SMCS-1306, 1308

i02295070

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1R-1808	1	FILTER AS-ENGINE OIL						
	2	1	7C-1493	2	VALVE AS-BYPASS (ENGINE OIL FILTER)						
	3	1	242-3864	2	SPRING						
	4	1	209-7290	1	GASKET						
	5	1	209-7291	1	BASE GP-OIL FILTER (ENGINE)						
		1	2P-4304	1	STUD-HOLLOW						
	6	1	2M-9780	2	SEAL-O-RING						
M	7	1	5P-8196	2	PLUG						
M	8	1	6V-5218	11	BOLT (M8X1.25X35-MM)						
	9	1	9M-1974	12	WASHER-HARD (8.8X16X2-MM THK)						
M	10	1	145-2264	1	STUD						

M-METRIC PART



GRAPHIC #1

<END>

g01003462

LUBRICATION SYSTEM

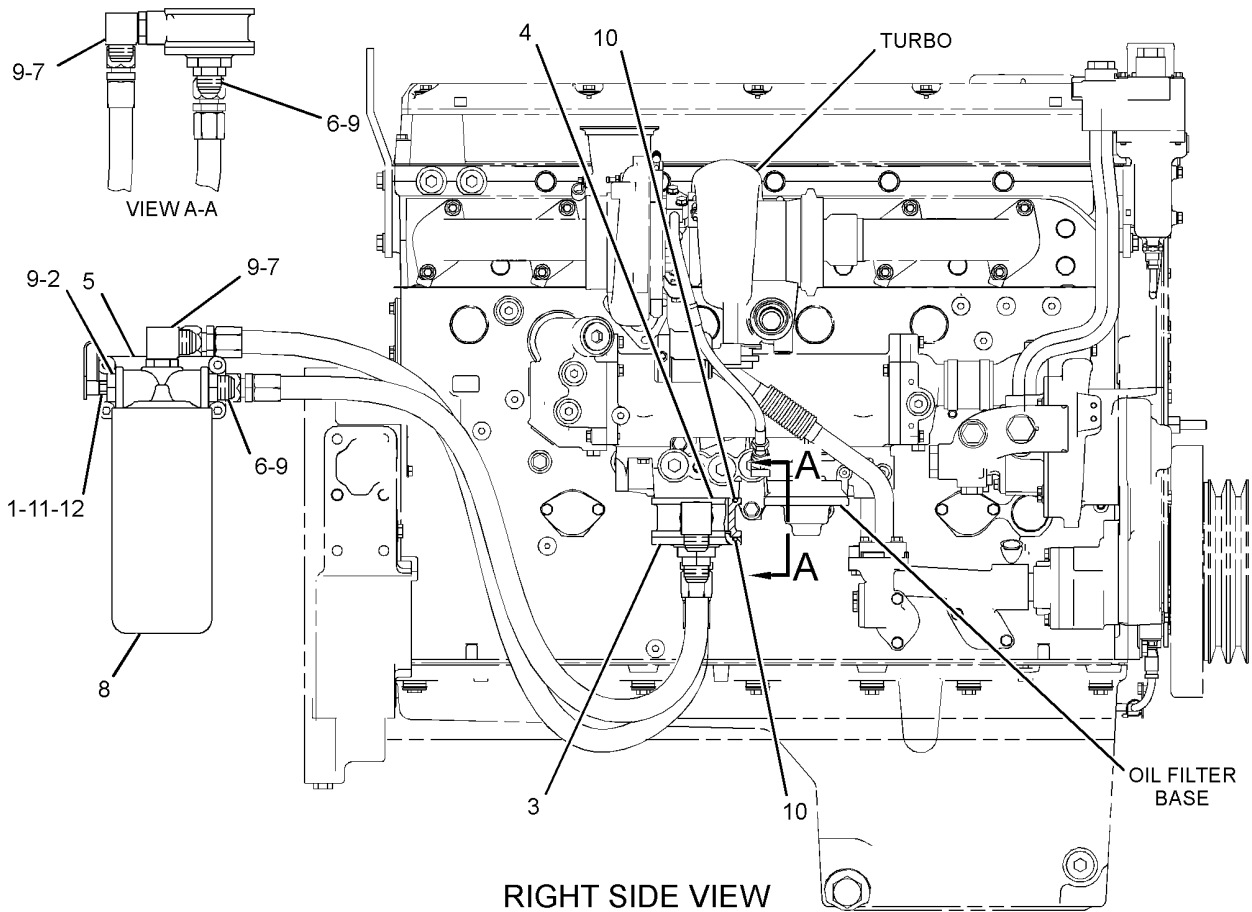
269-6439 FILTER GP-ENGINE OIL

AN ATTACHMENT

SMCS-1306, 1308

i02549703

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	8D-8428	1	ADAPTER						
			030-7935	2	CONNECTOR						
	3	1	102-5828	1	COVER						
	4	1	102-5829	1	ADAPTER						
	5	1	190-1106	1	BASE AS-OIL FILTER (ENGINE)						
			2P-4304	1	STUD-HOLLOW						
	6	1	030-7951	2	ELBOW-FLARED						
	7	1	1R-1808	1	FILTER AS-ENGINE OIL						
	8	1	5P-7701	5	SEAL-O-RING						
	9	1	6V-3908	2	SEAL-O-RING						
	10	1	6V-5048	1	SEAL-O-RING						
	11	1	8C-3446	1	VALVE-FLUID SAMPLING (ENGINE OIL)						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01213474

LUBRICATION SYSTEM

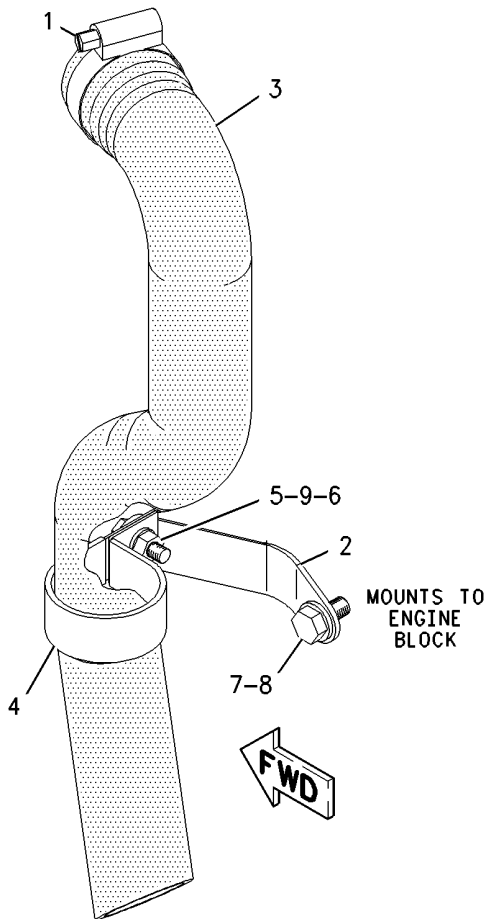
187-3077 FUMES DISPOSAL GP AN ATTACHMENT

SMCS-1317

i02297819

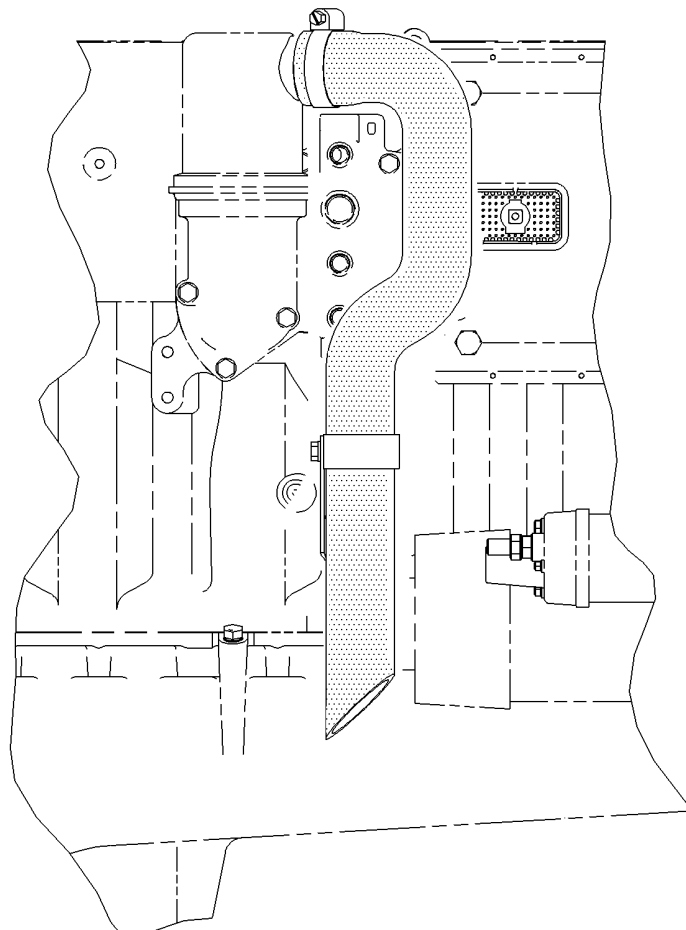
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-0597	1	CLAMP - HOSE						
	2	1	193-0731	1	BRACKET						
	3	1	193-5510	1	HOSE - FUMES DISPOSAL						
	4	1	5P-4325	1	CLIP						
M	5	1	5P-7970	1	NUT (M8X1.25-THD)						
M	6	1	6V-3940	1	BOLT (M8X1.25X25-MM)						
	7	1	6V-5839	1	WASHER (11X21X2.5-MM THK)						
M	8	1	6V-6317	1	BOLT (M10X1.5X20-MM)						
	9	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



ISOMETRIC

GRAPHIC #1



LEFT SIDE VIEW

<END>

g00984667

LUBRICATION SYSTEM

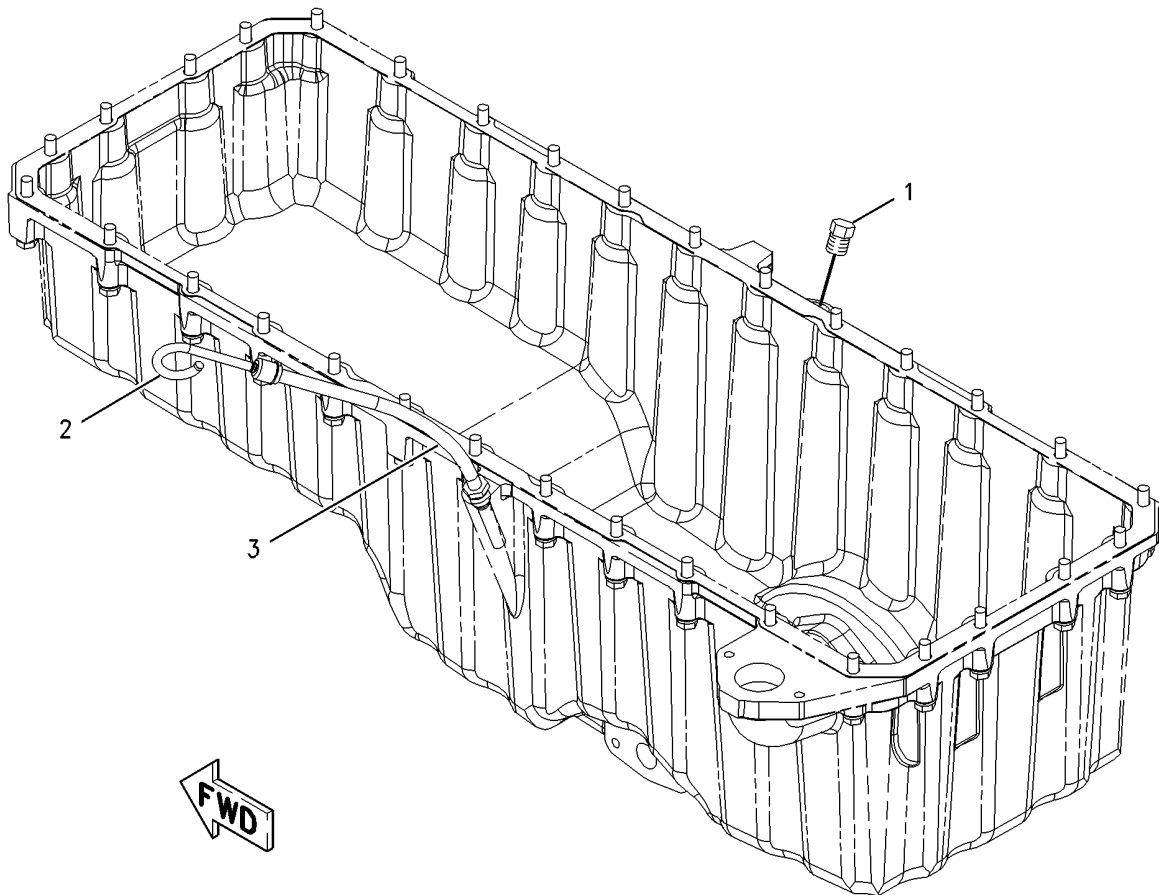
176-5328 GAUGE GP-OIL LEVEL (DIPSTICK)-ENGINE AN ATTACHMENT

SMCS-1326

i02504757

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	1	PLUG						
	2	1	183-3014	1	GAUGE-OIL LEVEL (DIPSTICK, ENGINE)						
	3	1	187-0716	1	TUBE AS-GUIDE						

J-USE TO PLUG OPTIONAL DIPSTICK LOCATION



GRAPHIC #1

<END>

g00835927

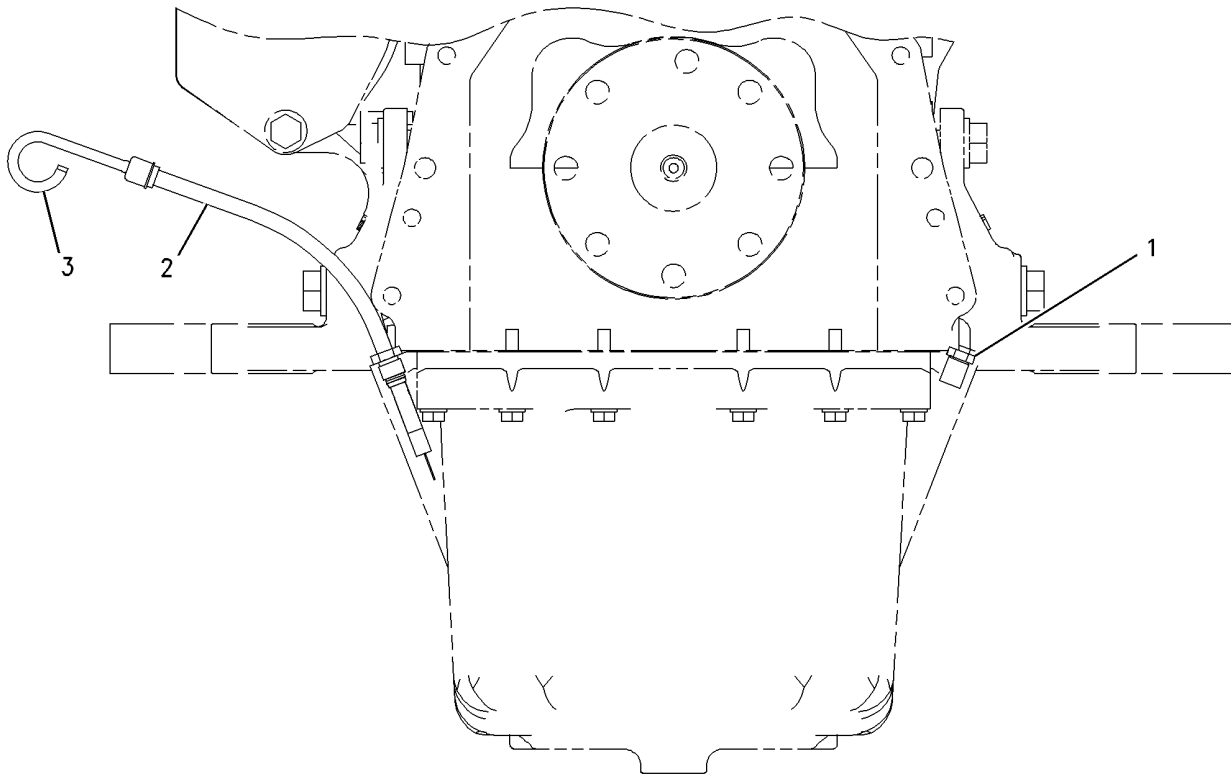
LUBRICATION SYSTEM

201-9773 GAUGE GP-OIL LEVEL (DIPSTICK)-ENGINE AN ATTACHMENT

SMCS-1326

i02294226

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1S-2563	1	PLUG						
	2	1	187-0716	1	TUBE AS-GUIDE						
	3	1	204-1555	1	GAUGE-OIL LEVEL (DIPSTICK) (ENGINE)						



REAR VIEW

GRAPHIC #1

<END>

g00786591

LUBRICATION SYSTEM

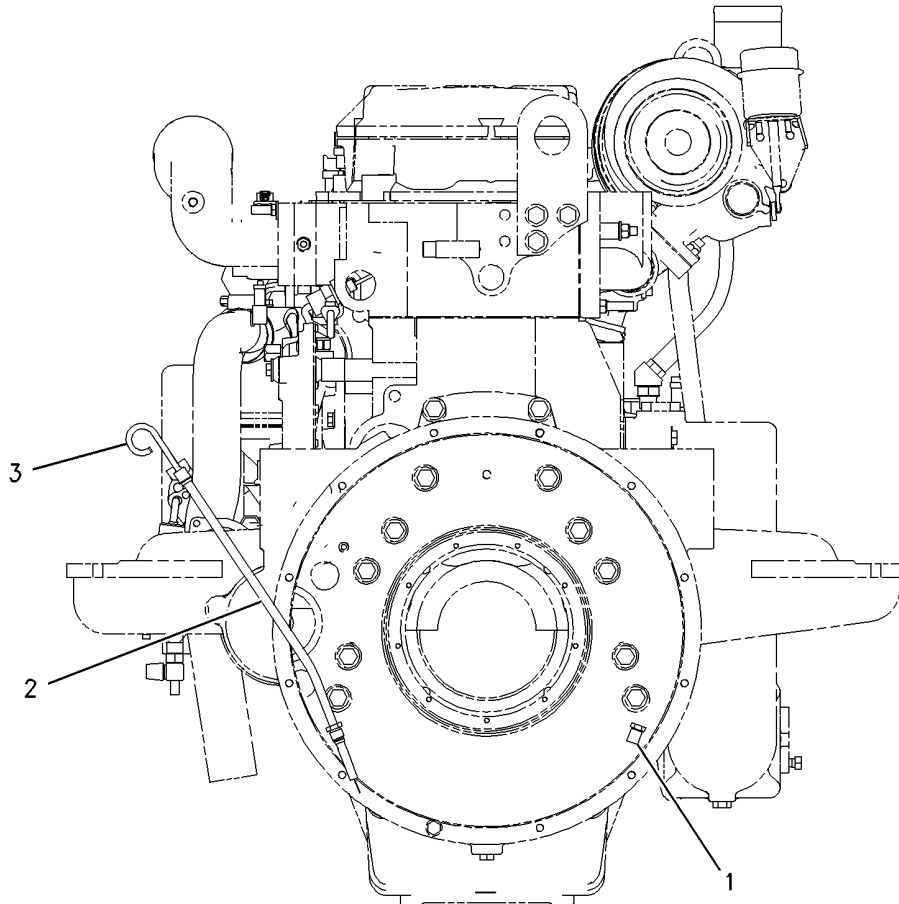
204-1552 GAUGE GP-OIL LEVEL (DIPSTICK)-ENGINE

LH
FOR USE WITH FRONT SUMP
AN ATTACHMENT

SMCS-1326

i02301056

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1S-2563	1	PLUG						
	2	1	195-6068	1	TUBE AS-GUIDE						
	3	1	204-1554	1	GAUGE-OIL LEVEL (DIPSTICK, ENGINE)						



REAR VIEW

GRAPHIC #1

<END>

g00786634

LUBRICATION SYSTEM

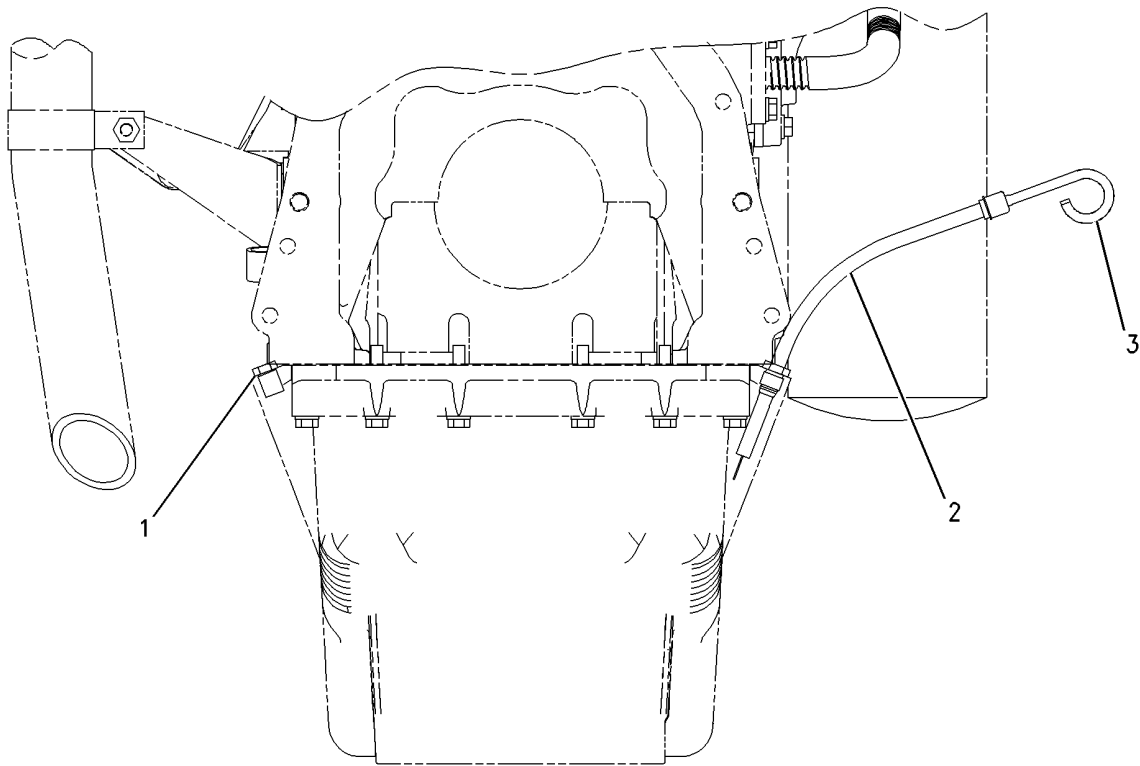
204-1553 GAUGE GP-OIL LEVEL (DIPSTICK)-ENGINE AN ATTACHMENT

SMCS-1326

i02295743

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	1	PLUG						
	2	1	187-0716	1	TUBE AS-GUIDE						
	3	1	204-1555	1	GAUGE-OIL LEVEL (DIPSTICK) (ENGINE)						

J-USE TO PLUG OPTIONAL DIPSTICK LOCATIONS



REAR VIEW

GRAPHIC #1

<END>

g00786597

LUBRICATION SYSTEM

192-2832 LINES GP-ENGINE OIL

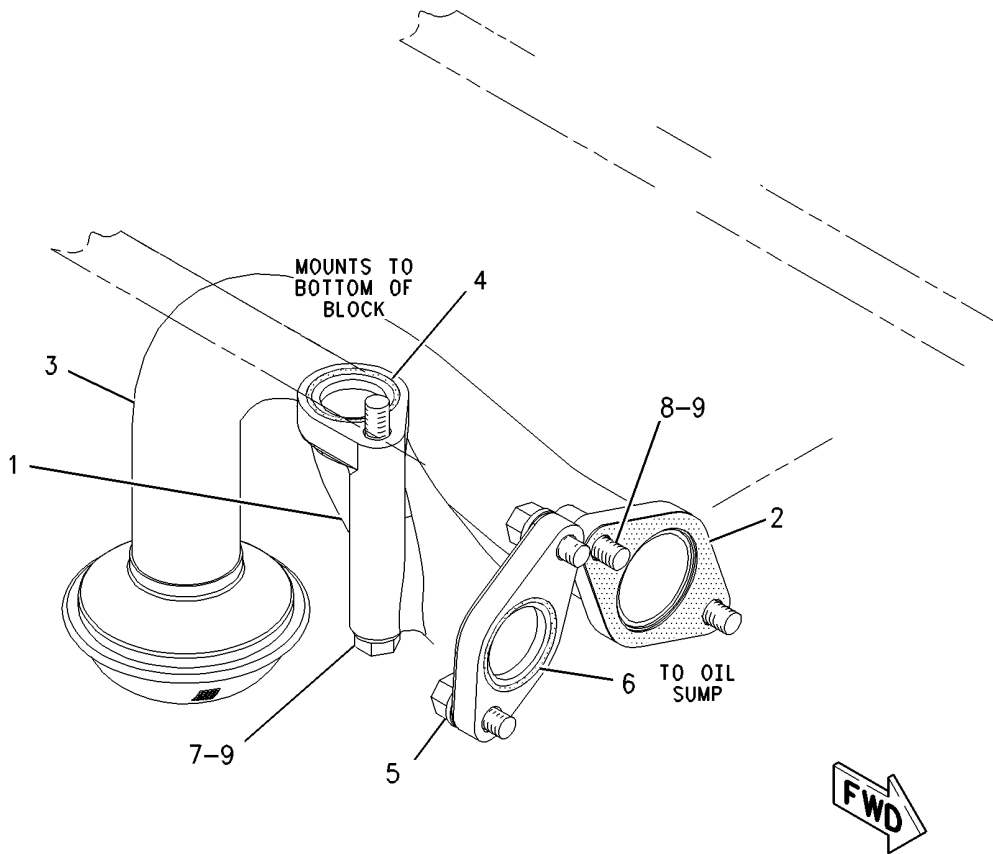
FRONT SUMP AN ATTACHMENT

SMCS-1307

i02179689

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	234-0203	1	ELBOW-OUTLET						
	2	1	195-0452	1	GASKET						
	3	1	212-7798	1	TUBE AS						
	4	1	033-6034	1	SEAL-O-RING						
M	5	1	208-9282	1	BOLT (M8X1.25X25-MM)						
	6	1	5P-7530	1	SEAL-O-RING						
M	7	1	8T-0292	1	BOLT (M8X1.25X90-MM)						
M	8	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	9	1	9M-1974	3	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00976306

LUBRICATION SYSTEM

192-2833 LINES GP-ENGINE OIL

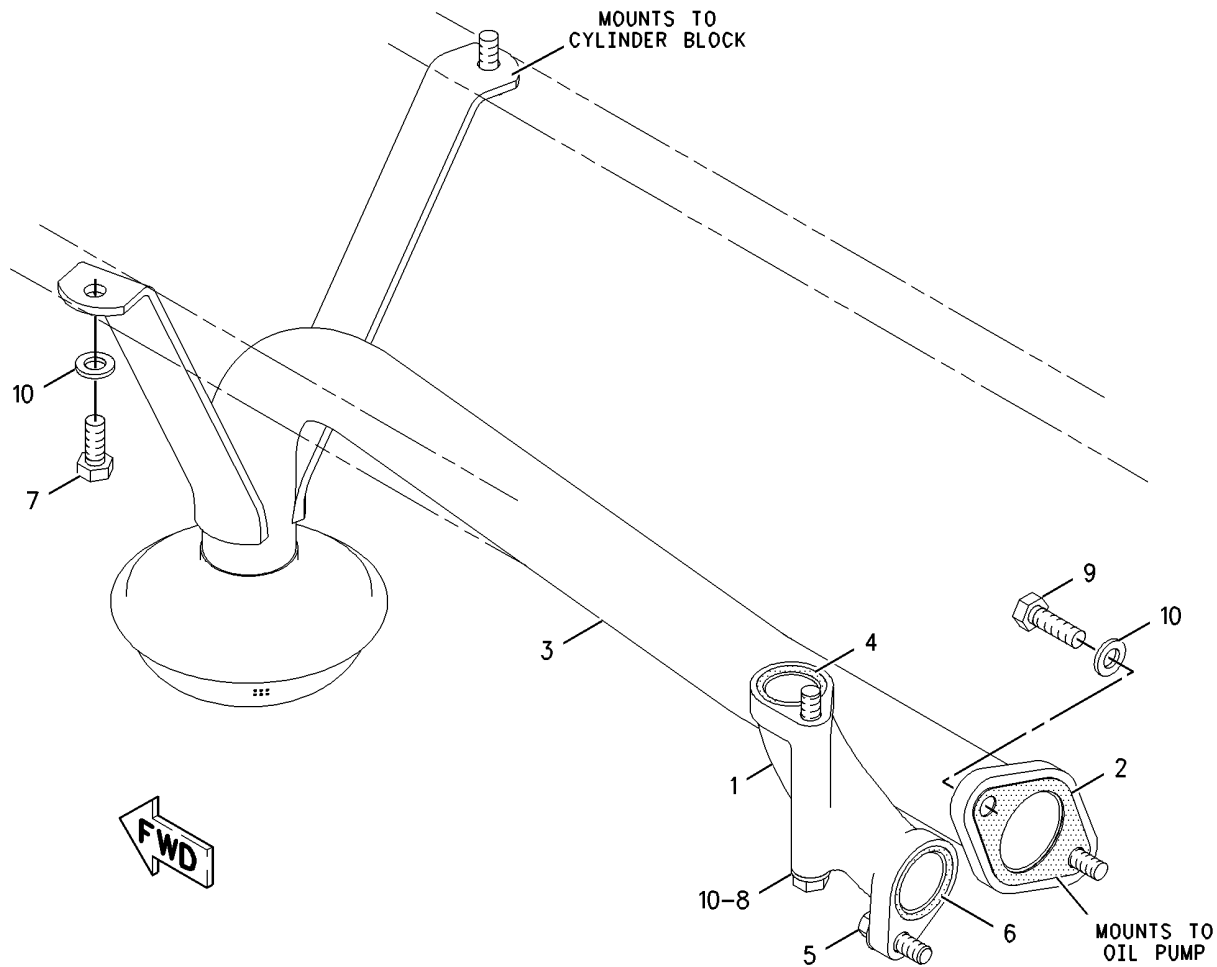
AN ATTACHMENT

SMCS-1307

i02292883

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	234-0203	1	ELBOW-OUTLET						
	2	1	195-0452	1	GASKET						
	3	1	212-7799	1	TUBE AS						
	4	1	033-6034	1	SEAL-O-RING						
M	5	1	208-9282	1	BOLT (M8X1.25X25-MM)						
	6	1	5P-7530	1	SEAL-O-RING						
M	7	1	6V-5217	2	BOLT (M8X1.25X20-MM)						
M	8	1	8T-0292	1	BOLT (M8X1.25X90-MM)						
M	9	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	10	1	9M-1974	5	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00986686

LUBRICATION SYSTEM

279-6010 LINES GP-ENGINE OIL

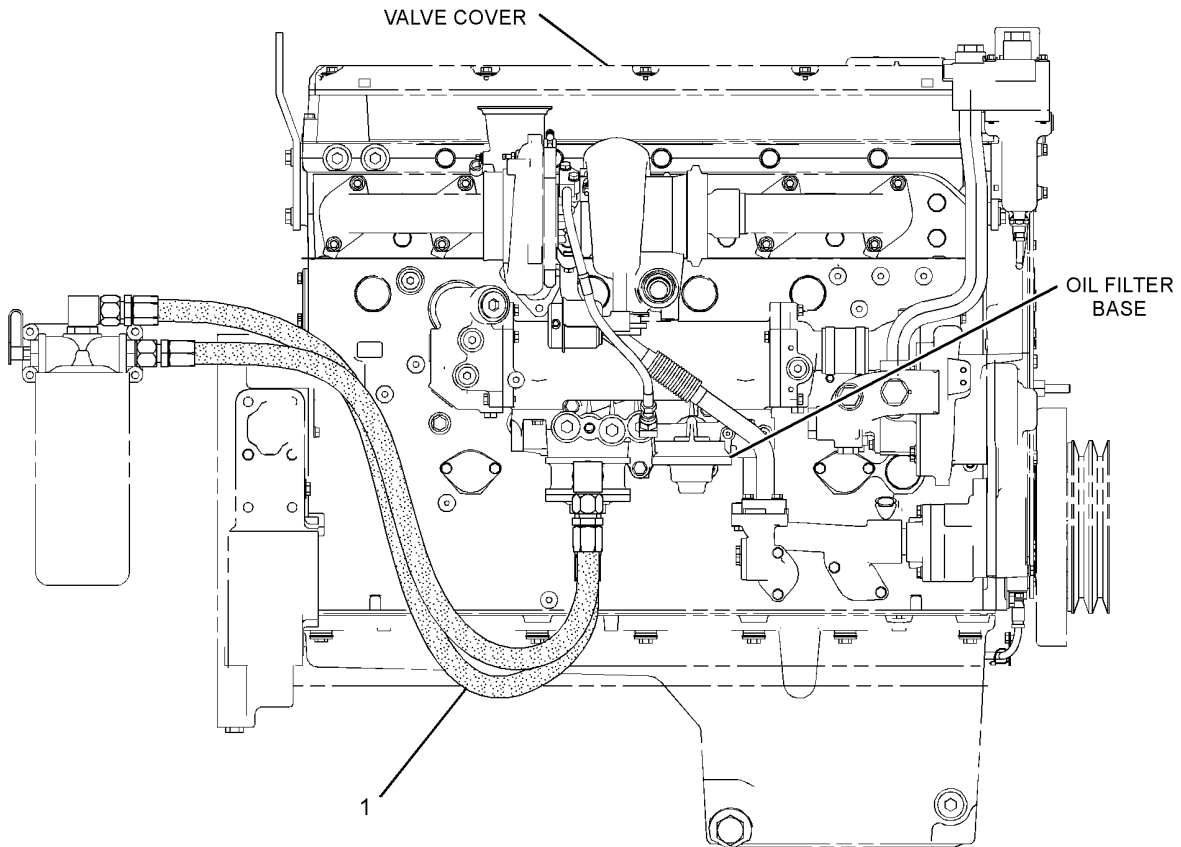
AN ATTACHMENT

SMCS-1307

i02503010

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	279-6011	2	HOSE AS						

I-REFER TO HYDRAULIC INFORMATION SYSTEM



RIGHT SIDE VIEW

<END>

GRAPHIC #1

g01213444

LUBRICATION SYSTEM

165-4465 LINES GP-TURBOCHARGER OIL

AN ATTACHMENT
TYPE 1

SMCS-1052, 1307

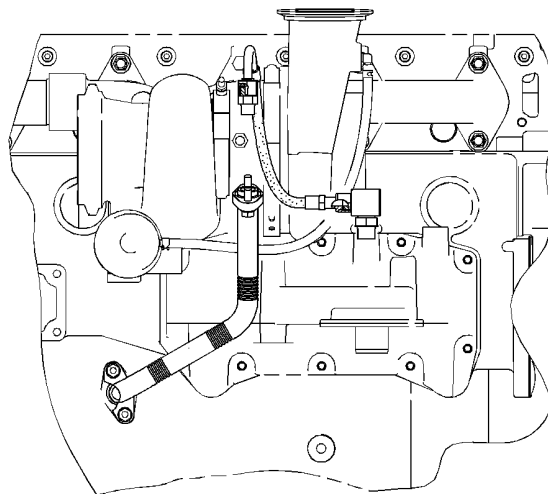
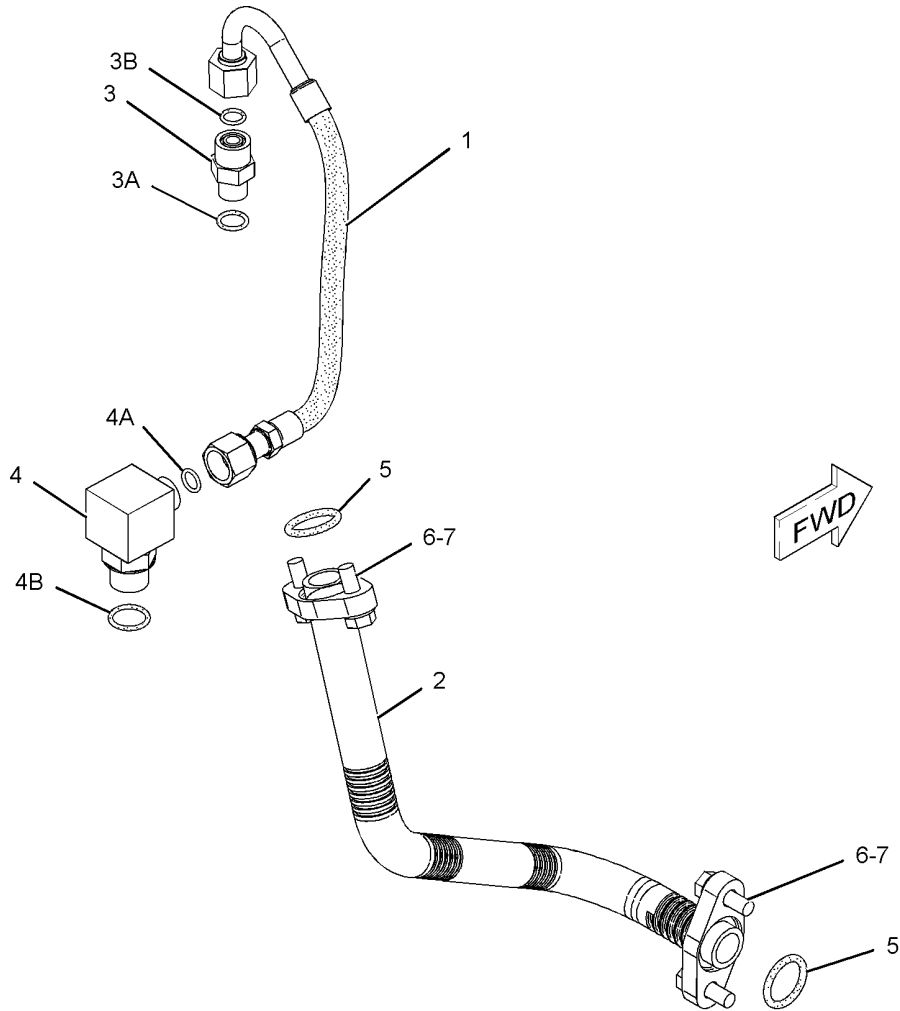
i02301033

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	249-9230	1	HOSE AS						
	2	1	167-0166	1	TUBE AS						
	3	1	183-3398	1	CONNECTOR AS						
		1	6V-8636	1	CONNECTOR						
	3A	1	6V-5049	1	SEAL-O-RING						
	3B	1	8L-2779	1	SEAL-O-RING						
	4	1	183-3404	1	ELBOW AS						
		1	6V-8723	1	ELBOW						
	4A	1	8L-2779	1	SEAL-O-RING						
	4B	1	8L-2786	1	SEAL-O-RING						
	5	1	3P-1156	2	SEAL-O-RING						
M	6	1	6V-3940	4	BOLT (M8X1.25X25-MM)						
	7	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
M-METRIC PART											

LUBRICATION SYSTEM

165-4465 LINES GP-TURBOCHARGER OIL (contd.)

i02301033



LEFT SIDE VIEW
<END>

GRAPHIC #1

g01067149

LUBRICATION SYSTEM

165-4465 LINES GP-TURBOCHARGER OIL

AN ATTACHMENT
TYPE 2

SMCS-1052, 1307

i02424979

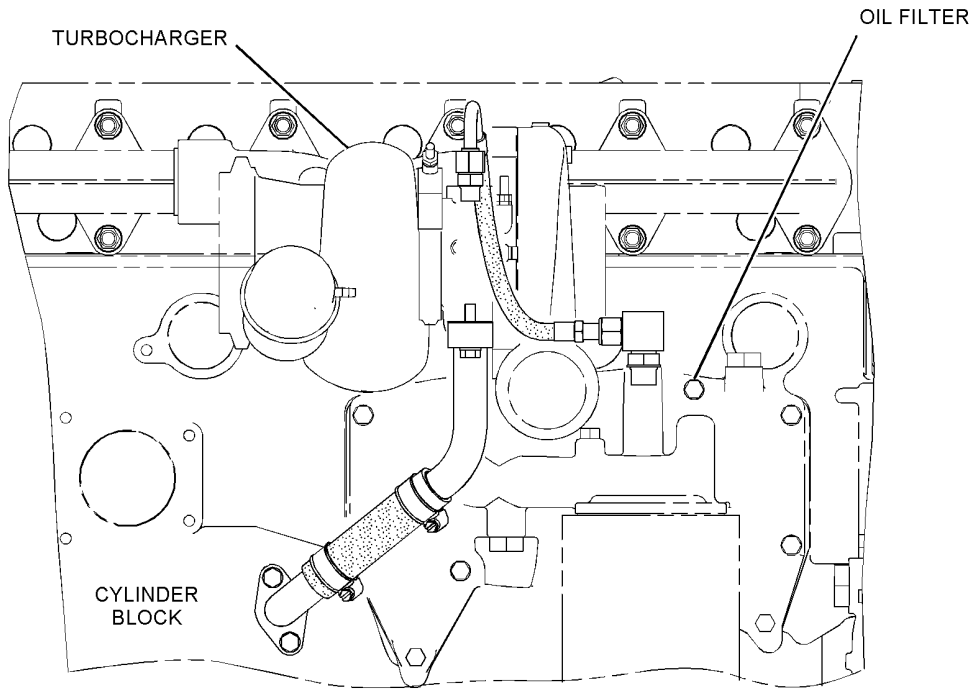
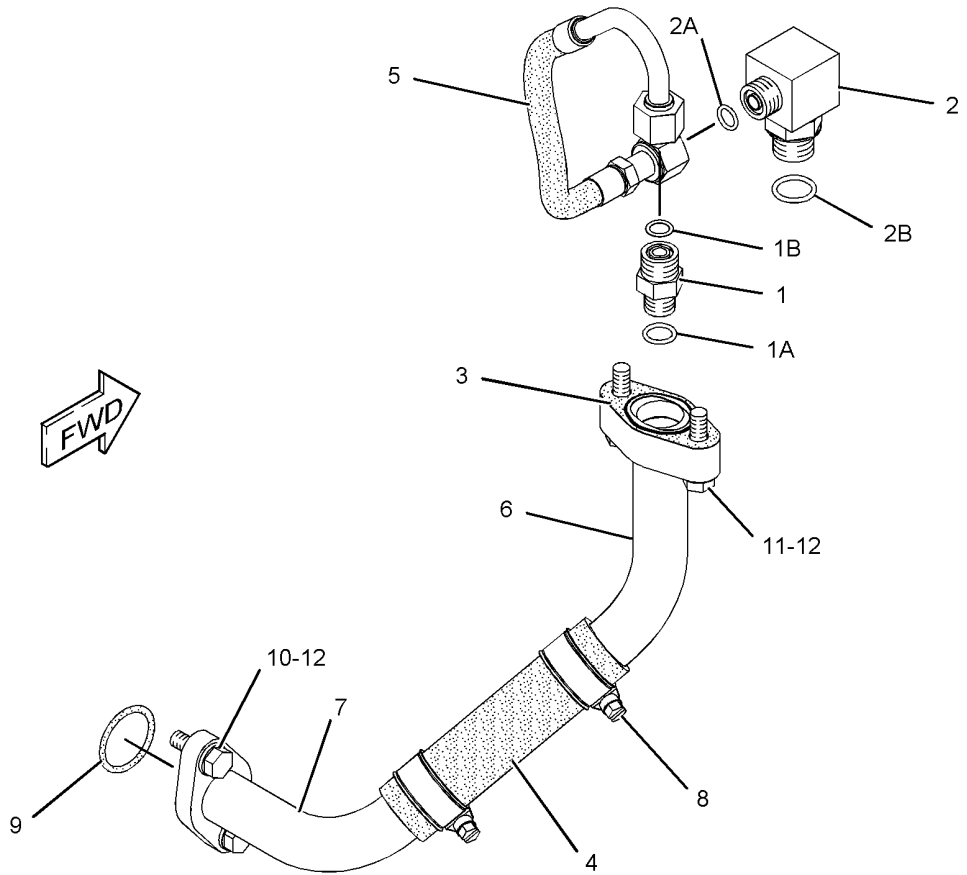
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
C	1	1	183-3399	1	CONNECTOR AS						
		1	6V-8636	1	CONNECTOR						
	1A	1	214-7568	1	SEAL-O-RING						
	1B	1	221-3494	1	SEAL-O-RING						
	2	1	183-3404	1	ELBOW AS						
		1	6V-8723	1	ELBOW						
	2A	1	8L-2779	1	SEAL-O-RING						
	2B	1	8L-2786	1	SEAL-O-RING						
C	3	1	197-8419	1	GASKET (TURBOCHARGER OIL)						
C	4	1	246-6036	1	HOSE						
	5	1	249-9230	1	HOSE AS						
C	6	1	259-2993	1	TUBE AS-DRAIN						
C	7	1	259-2994	1	TUBE AS-DRAIN						
C	8	1	269-8788	2	CLAMP-BAND						
C	9	1	5P-7530	1	SEAL-O-RING						
CM	10	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
CM	11	1	6V-5218	2	BOLT (M8X1.25X35-MM)						
	12	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						

C - CHANGE FROM PREVIOUS TYPE
M - METRIC PART

LUBRICATION SYSTEM

165-4465 LINES GP-TURBOCHARGER OIL (contd.)

i02424979



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01197820

LUBRICATION SYSTEM

197-2672 LINES GP-TURBOCHARGER OIL

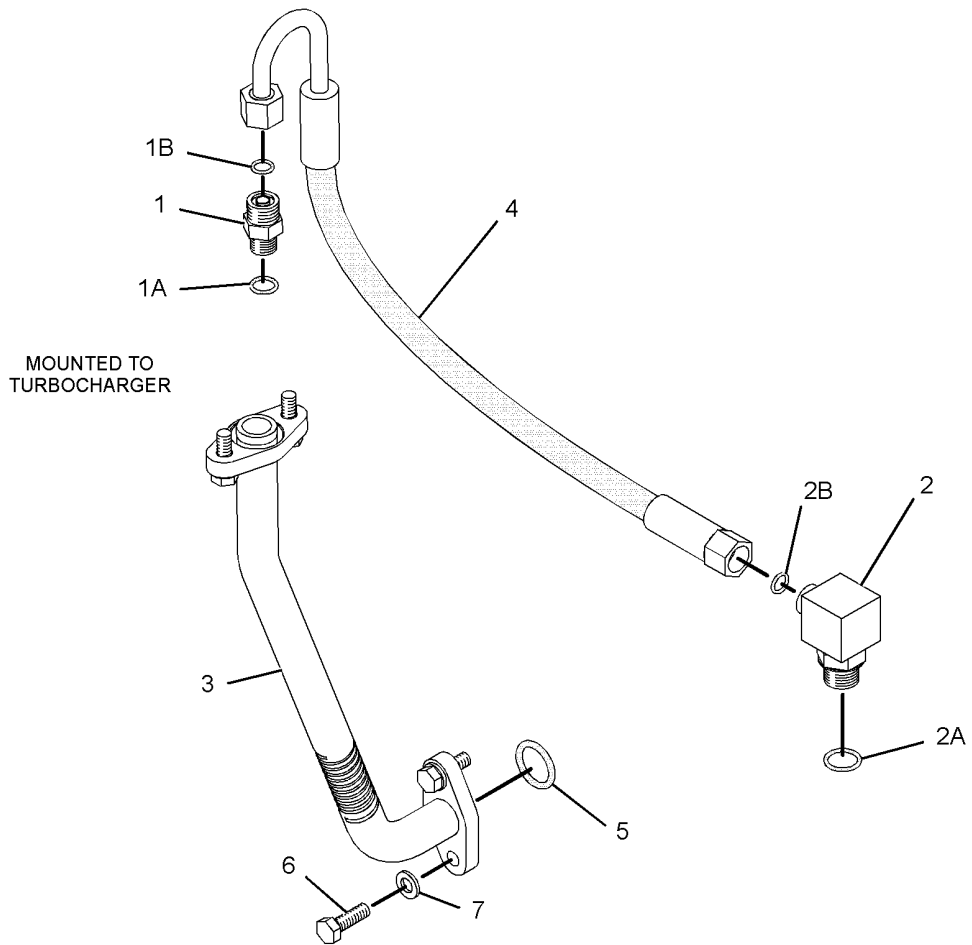
AN ATTACHMENT

SMCS-1052, 1307

i02298745

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	183-3398	1	CONNECTOR AS						
			6V-8636	1	CONNECTOR						
	1A	1	6V-5049	1	SEAL-O-RING						
	1B	1	8L-2779	1	SEAL-O-RING						
	2	1	183-3404	1	ELBOW AS						
		1	6V-8723	1	ELBOW						
	2A	1	8L-2779	1	SEAL-O-RING						
	2B	1	8L-2786	1	SEAL-O-RING						
	3	1	197-2678	1	TUBE AS						
	4	1	200-5736	1	HOSE AS						
	5	1	3P-1156	2	SEAL-O-RING						
M	6	1	6V-3940	4	BOLT (M8X1.25X25-MM)						
	7	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01151255

LUBRICATION SYSTEM

214-3557 LINES GP-TURBOCHARGER OIL

AN ATTACHMENT

SMCS-1052, 1307

i02551015

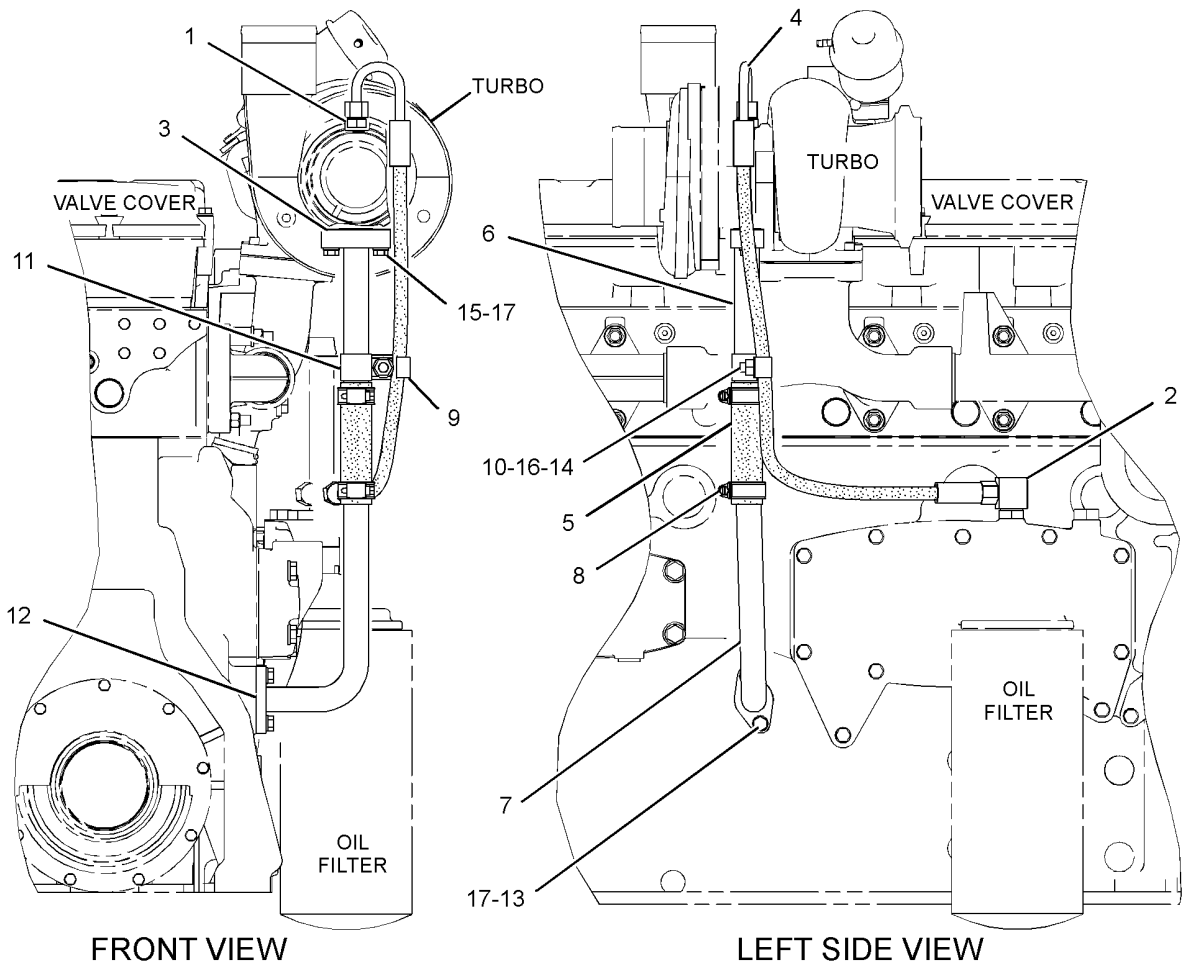
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	183-3399	1	CONNECTOR AS	
		1	6V-8636	1	CONNECTOR	
		1	214-7568	1	SEAL-O-RING (11.89-MM ID)	
		1	221-3494	1	SEAL-O-RING (9.27-MM ID)	
	2	1	183-3404	1	ELBOW AS	
		1	6V-8723	1	ELBOW	
		1	8L-2779	1	SEAL-O-RING (9.25-MM ID)	
		1	8L-2786	1	SEAL-O-RING (16.36-MM ID)	
	3	1	197-8419	1	GASKET (TURBOCHARGER OIL)	
	4	1	214-3556	1	HOSE AS	
	5	1	246-6036	1	HOSE	
	6	1	263-3464	1	TUBE AS	
	7	1	269-8299	1	TUBE AS	
	8	1	284-3502	2	CLAMP-BAND	
	9	1	033-8248	1	CLIP	
M	10	1	2Y-5829	1	NUT (M10X1.15-THD)	
	11	1	4S-1962	1	CLIP	
	12	1	5P-7530	1	SEAL-O-RING	
M	13	1	6V-3940	2	BOLT (M8X1.25X25-MM)	
M	14	1	6V-4248	1	BOLT (M10X1.5X25-MM)	
M	15	1	6V-5218	2	BOLT (M8X1.25X35-MM)	
	16	1	6V-5839	2	WASHER (11X21X2.5-MM THK)	
	17	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)	

M-METRIC PART

LUBRICATION SYSTEM

214-3557 LINES GP-TURBOCHARGER OIL (contd.)

i02551015



FRONT VIEW

LEFT SIDE VIEW

GRAPHIC #1

<END>

g01271479

LUBRICATION SYSTEM

221-5421 LINES GP-TURBOCHARGER OIL

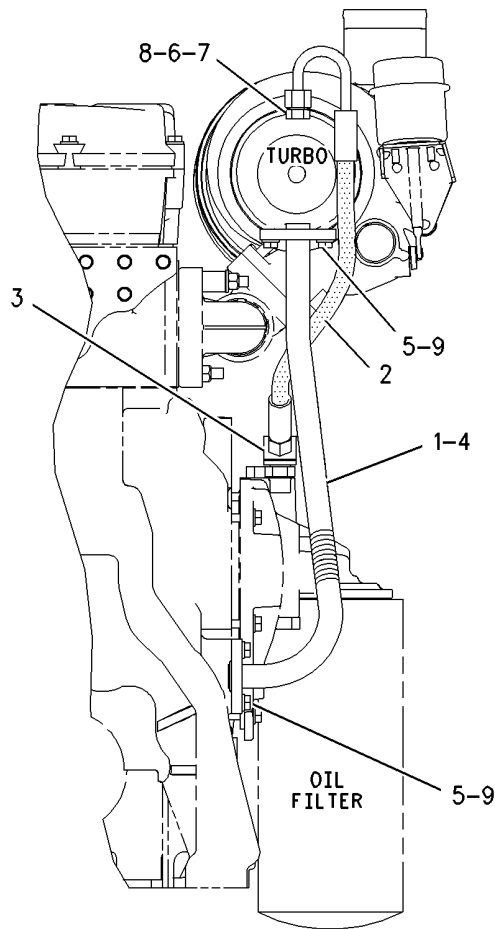
AN ATTACHMENT

SMCS-1052, 1307

i02459972

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	188-8842	1	TUBE AS-OIL DRAIN							
	2	1	221-5420	1	HOSE AS							
	3	1	148-8363	1	ELBOW AS							
		1	6V-9876	1	ELBOW							
		1	3K-0360	1	SEAL-O-RING (16.36MM ID)							
		1	6V-8397	1	SEAL-O-RING (12.83MM ID)							
	4	1	3P-1156	2	SEAL-O-RING							
M	5	1	6V-3940	4	BOLT (M8X1.25X25-MM)							
	6	1	221-3494	1	SEAL-O-RING (9.25MM ID)							
	7	1	6V-8636	1	CONNECTOR							
	8	1	214-7568	1	SEAL-O-RING							
	9	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)							

M-METRIC PART



REAR VIEW

GRAPHIC #1

<END>

g00934020

LUBRICATION SYSTEM

224-4389 LINES GP-TURBOCHARGER OIL

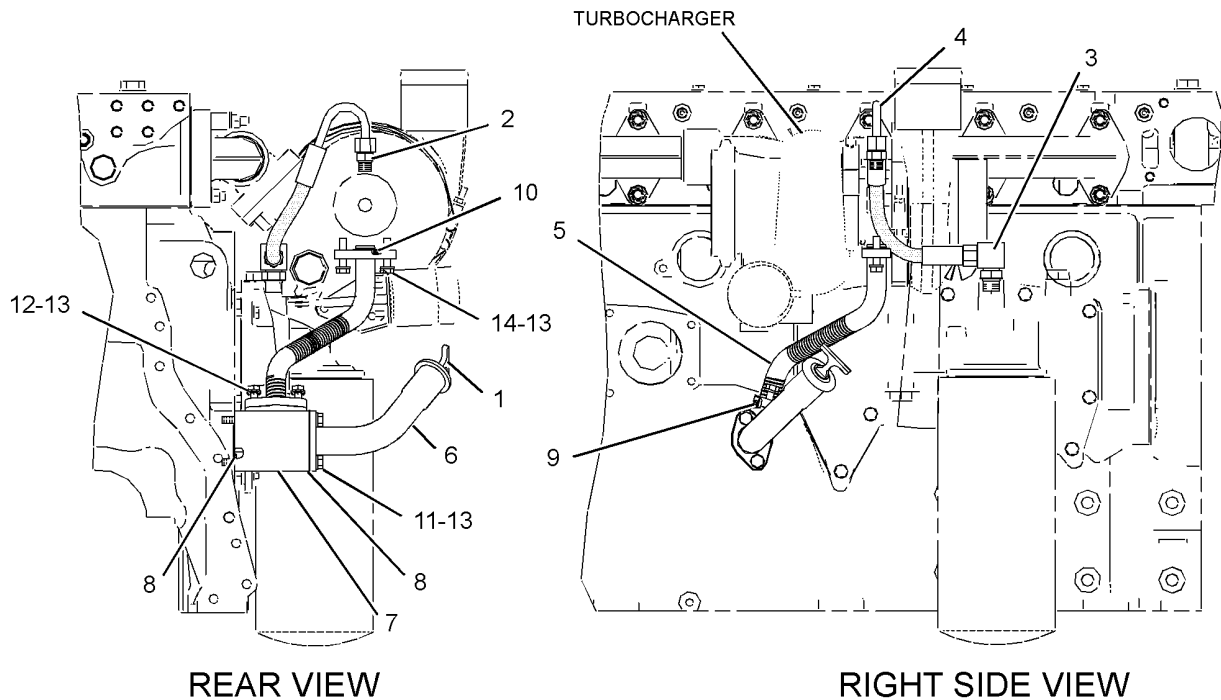
AN ATTACHMENT

SMCS-1052, 1307

i02505568

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9L-8439	1	CAP-OIL FILLER (TURBOCHARGER)						
	2	1	183-3399	1	CONNECTOR AS						
		1	214-7568	1	SEAL-O-RING (11.89-MM ID)						
		1	221-3494	1	SEAL-O-RING						
		1	6V-8636	1	CONNECTOR (9.25-MM ID)						
	3	1	183-3404	1	ELBOW AS						
		1	6V-8723	1	ELBOW						
		1	8L-2779	1	SEAL-O-RING (9.25-MM ID)						
		1	8L-2786	1	SEAL-O-RING (16.36-MM ID)						
	4	1	205-1332	1	HOSE AS						
	5	1	224-4390	1	TUBE AS						
	6	1	224-4391	1	TUBE AS						
	7	1	224-4392	1	ADAPTER						
	8	1	2A-4448	2	GASKET						
	9	1	3P-1156	1	SEAL-O-RING						
	10	1	197-8419	1	GASKET (TURBOCHARGER OIL)						
M	11	1	6V-3821	2	BOLT (M8X1.25X110-MM)						
M	12	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	13	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)						
M	14	1	6V-2317	2	BOLT (M8X1.25X30-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01198917

LUBRICATION SYSTEM

227-7481 LINES GP-TURBOCHARGER OIL

AN ATTACHMENT

SMCS-1052, 1307

i02509968

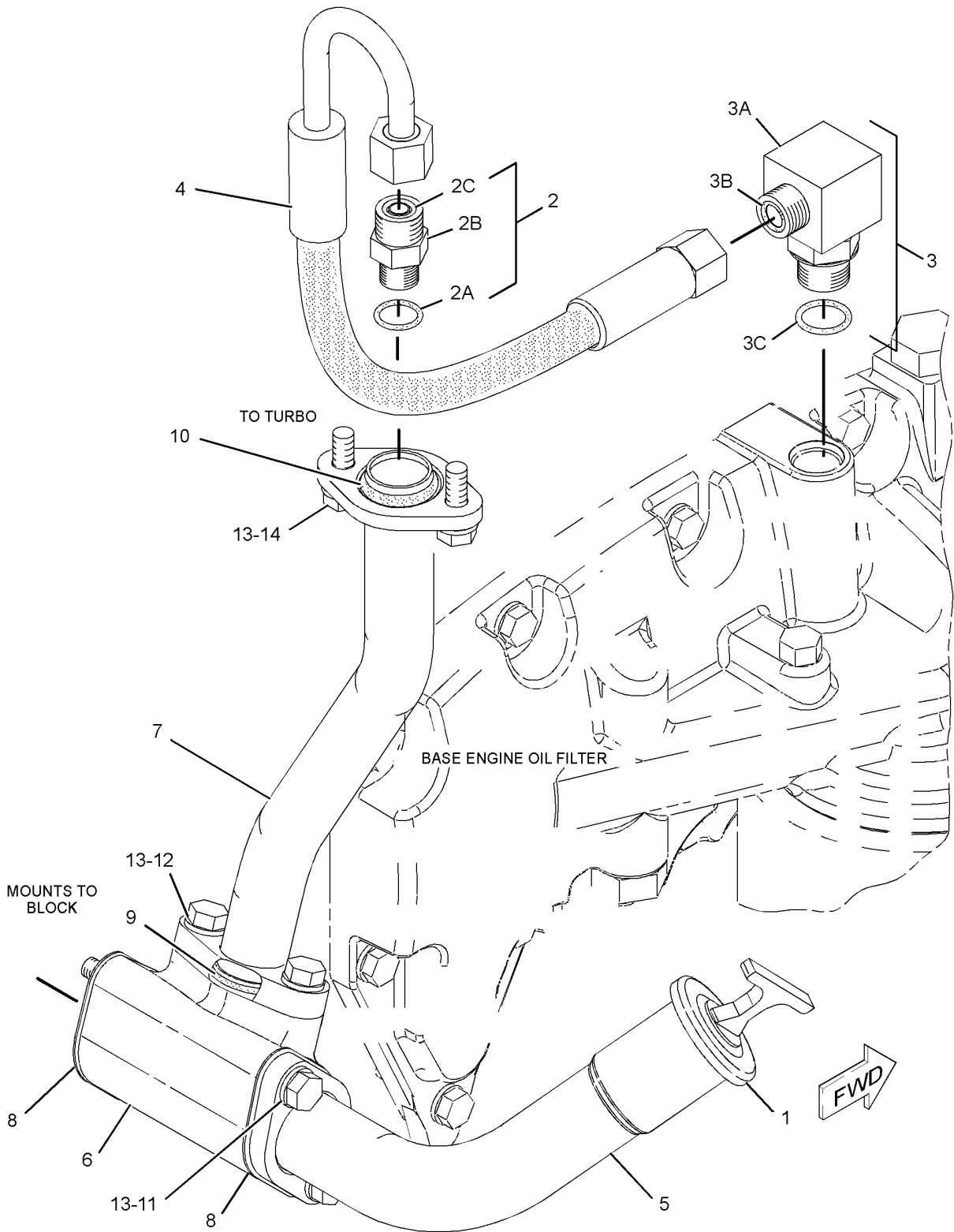
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9L-8439	1	CAP-OIL FILLER (TURBOCHARGER)						
	2	1	183-3399	1	CONNECTOR AS						
	2A	1	214-7568	1	SEAL-O-RING						
	2B	1	6V-8636	1	CONNECTOR						
	2C	1	221-3494	1	SEAL-O-RING						
	3	1	183-3404	1	ELBOW AS						
	3A	1	6V-8723	1	ELBOW						
	3B	1	8L-2779	1	SEAL-O-RING						
	3C	1	8L-2786	1	SEAL-O-RING						
	4	1	200-5736	1	HOSE AS						
	5	1	224-4391	1	TUBE AS						
	6	1	224-4392	1	ADAPTER						
	7	1	227-7482	1	TUBE AS						
	8	1	2A-4448	2	GASKET						
	9	1	3P-1156	1	SEAL-O-RING						
	10	1	197-8419	1	GASKET (TURBOCHARGER OIL)						
M	11	1	6V-3821	2	BOLT (M8X1.25X110-MM)						
M	12	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	13	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)						
M	14	1	6V-2317	2	BOLT (M8X1.25X30-MM)						

M-METRIC PART

LUBRICATION SYSTEM

227-7481 LINES GP-TURBOCHARGER OIL (contd.)

i02509968



GRAPHIC #1

<END>

g01256422

LUBRICATION SYSTEM

195-8098 PUMP GP-ENGINE OIL

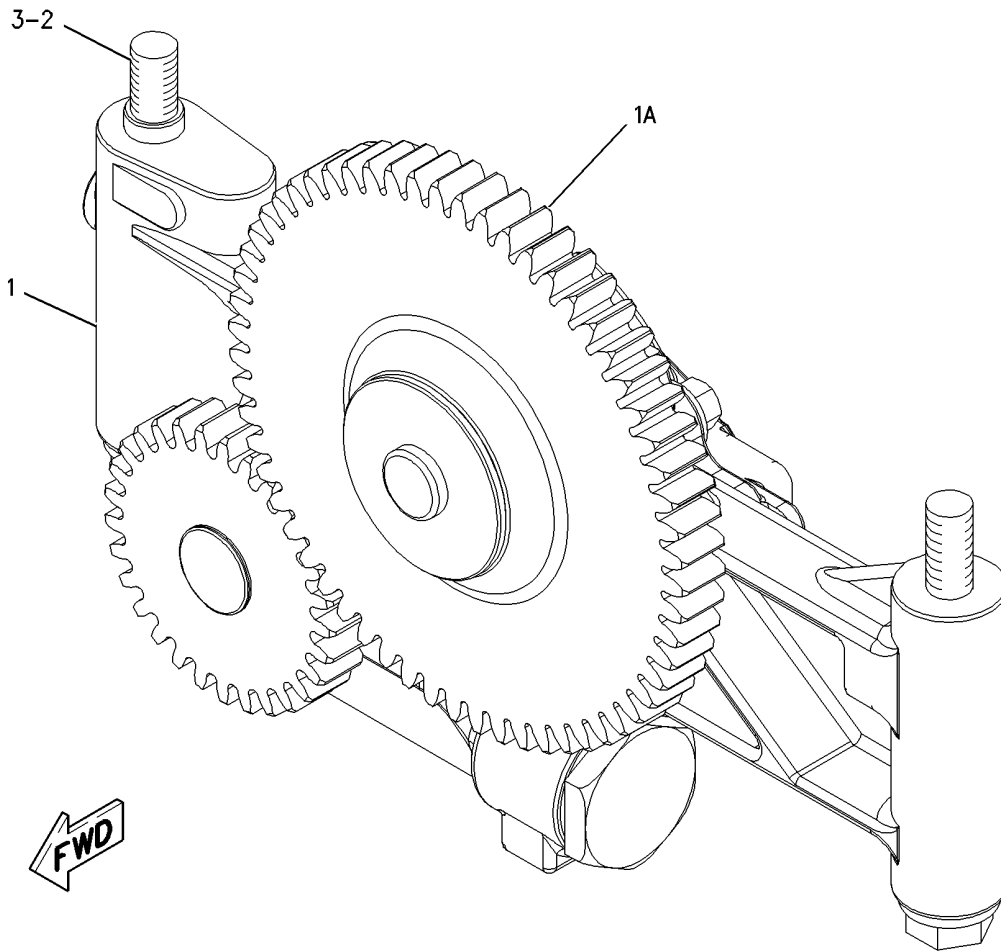
PART OF 287-3653 ENGINE AR-CORE

SMCS-1304, 1315

i01836184

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	211-0546	1	PUMP GP-ENGINE OIL						
		1	210-5522	1	PUMP AS-ENGINE OIL						
	1A	1	221-0144	1	GEAR AS (60 TEETH)						
M	2	1	6V-1819	2	BOLT (M10X1.50X100MM)						
	3	1	6V-5839	2	WASHER (11X21X2.5MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00909910

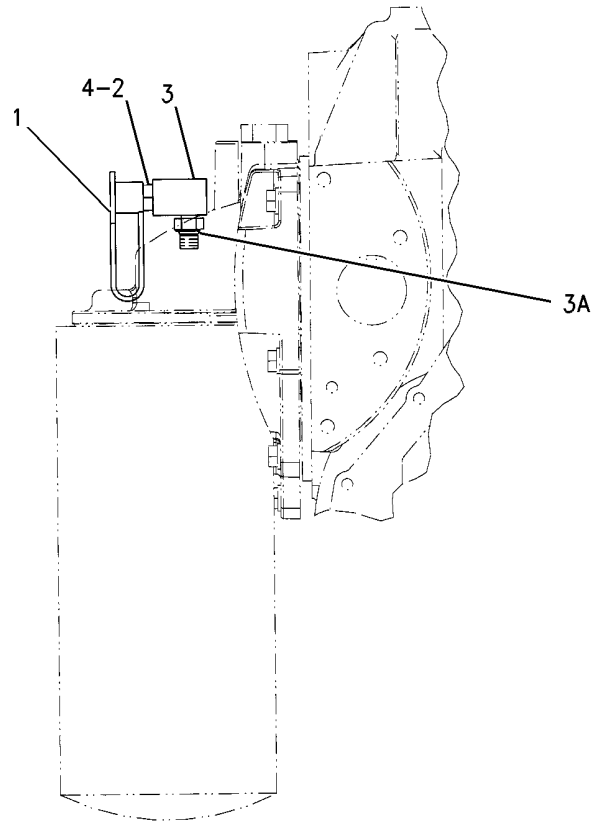
LUBRICATION SYSTEM

204-1543 VALVE GP-FLUID SAMPLING-ENGINE OIL AN ATTACHMENT

SMCS-7542

i02295080

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-FLUID SAMPLING						
	3	1	162-6802	1	ELBOW GP						
		1	151-5145	1	ELBOW						
	3A	1	3J-7354	1	SEAL-O-RING						
	4	1	3J-7354	1	SEAL-O-RING						



FRONT VIEW

GRAPHIC #1

<END>

g00786041

COOLING SYSTEM

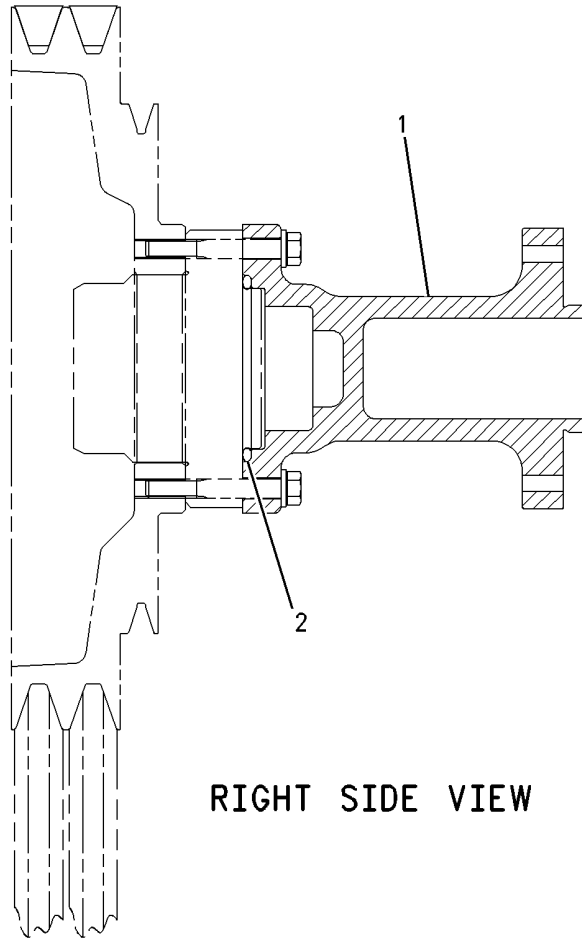
131-8151 ADAPTER GP-FAN

AN ATTACHMENT

SMCS-1356, 1359

i02448324

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	131-8149	1	ADAPTER-FAN						
	2	1	9F-4446	1	SEAL-O-RING						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00784086

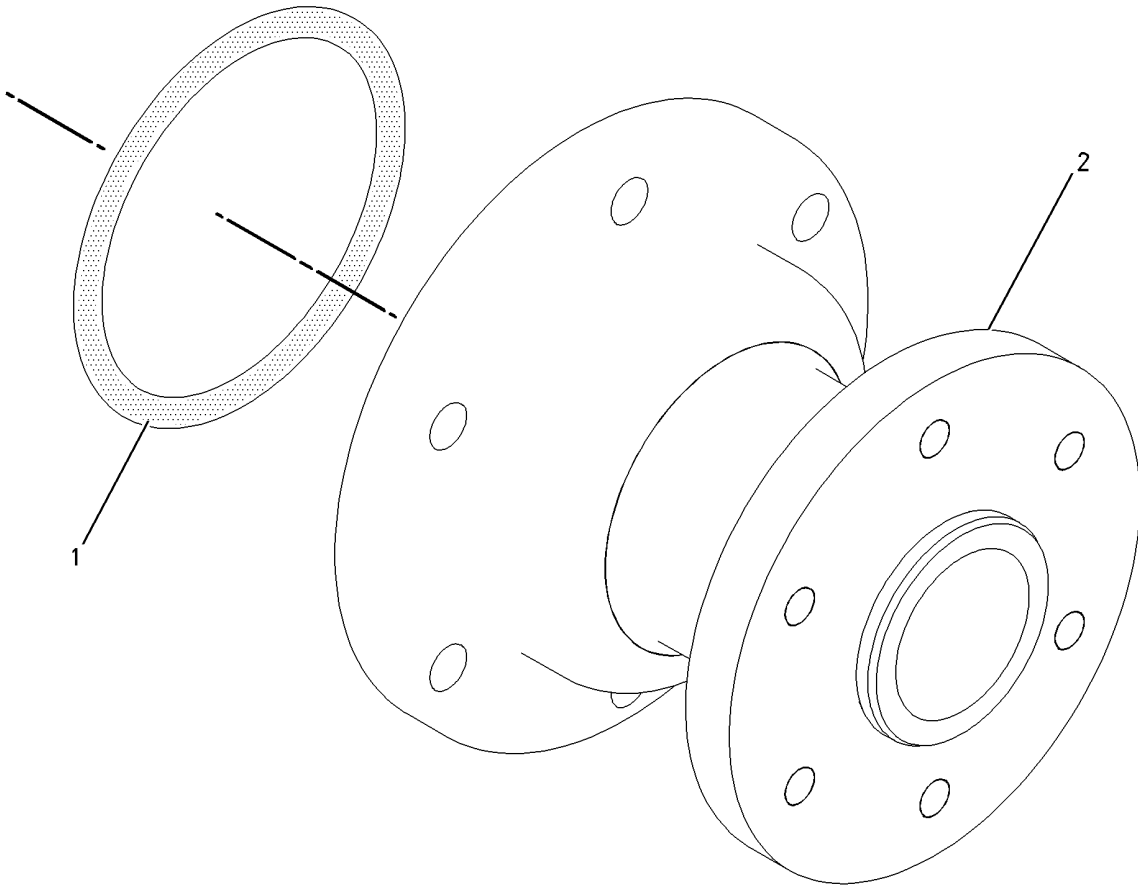
COOLING SYSTEM

197-8103 ADAPTER GP-FAN 26 INCH SUCTION OR BLOWER FAN HEIGHT AN ATTACHMENT

SMCS-1356, 1359

i01579892

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	197-0650	1	ADAPTER-FAN						



GRAPHIC #1

<END>

g00756289

COOLING SYSTEM

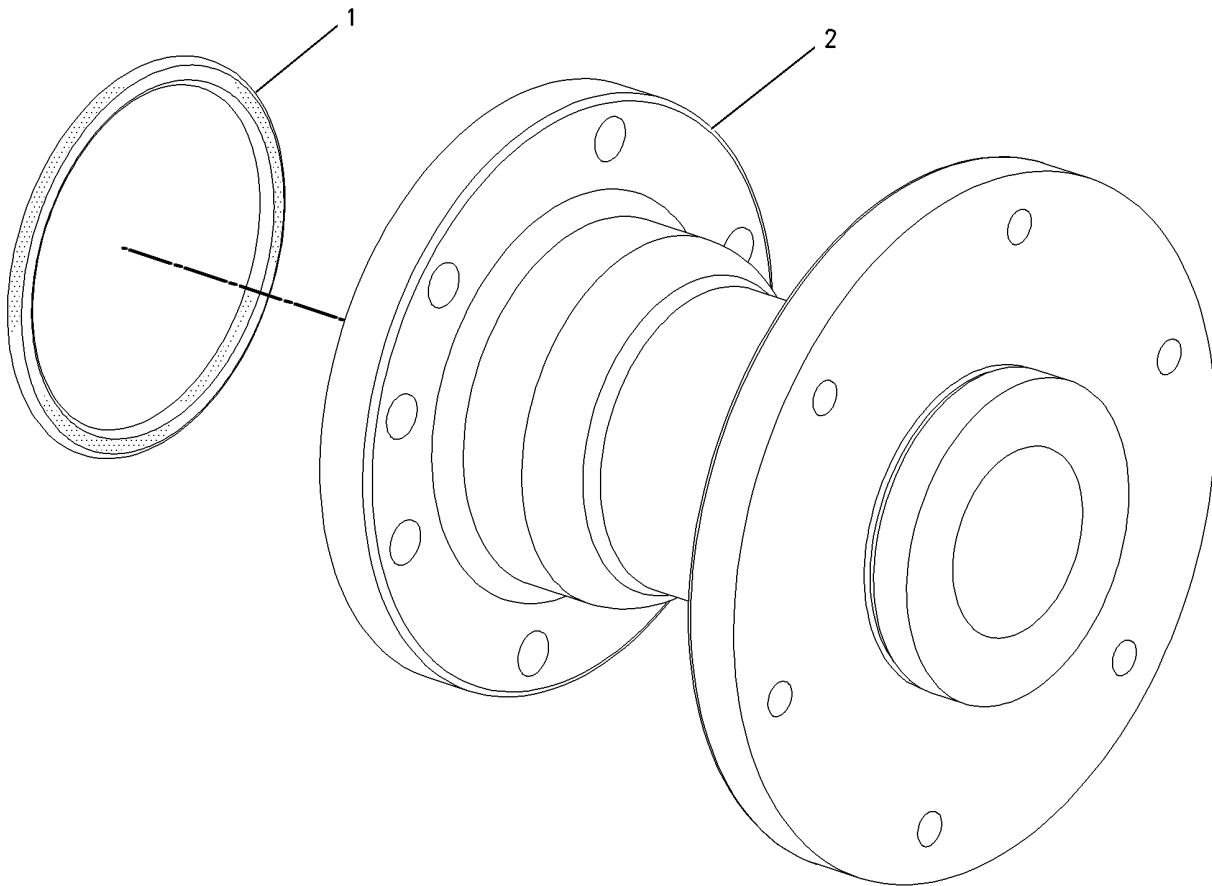
197-8104 ADAPTER GP-FAN

AN ATTACHMENT

SMCS-1356, 1359

i02250275

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	197-8108	1	ADAPTER-FAN						



GRAPHIC #1

<END>

g00755866

COOLING SYSTEM

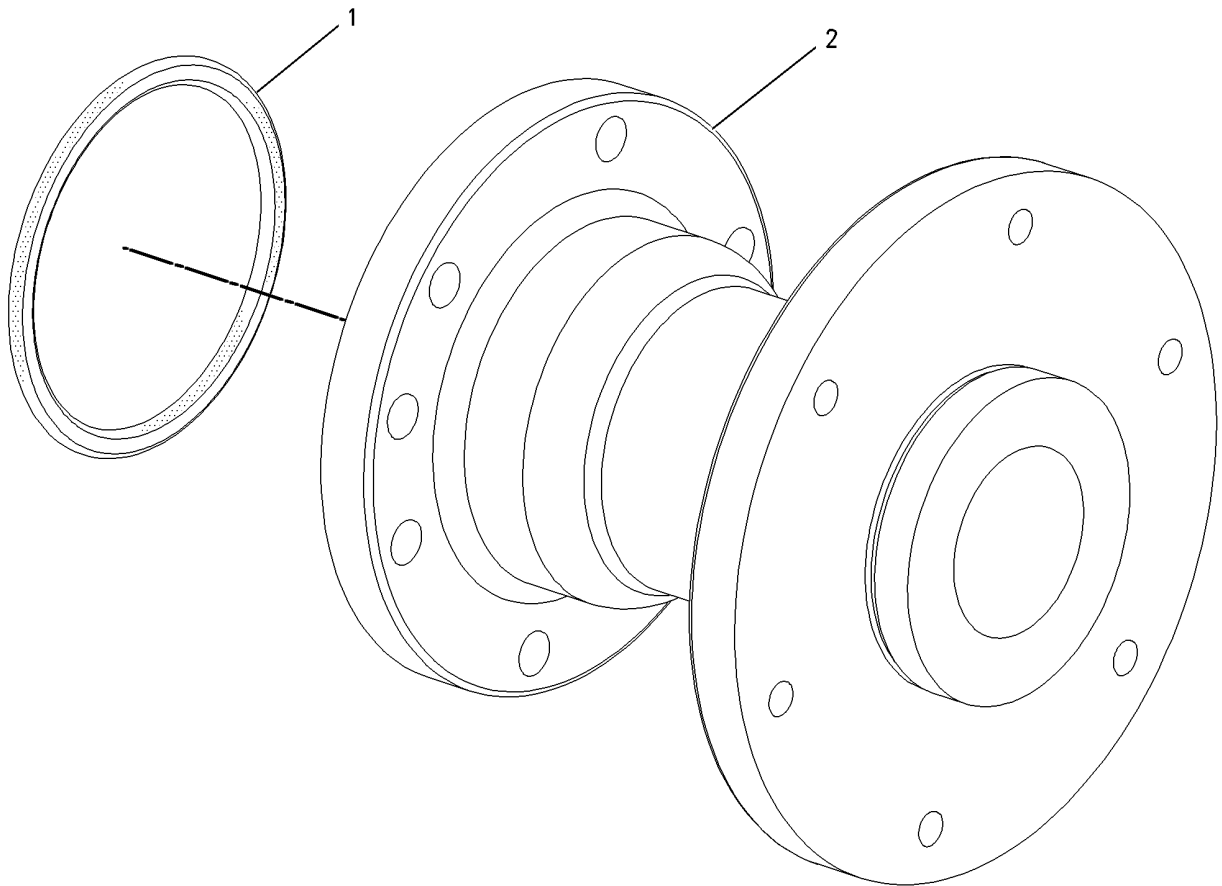
197-8105 ADAPTER GP-FAN

AN ATTACHMENT

SMCS-1356, 1359

i02505574

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	198-7624	1	ADAPTER-FAN						



GRAPHIC #1

<END>

g00755875

COOLING SYSTEM

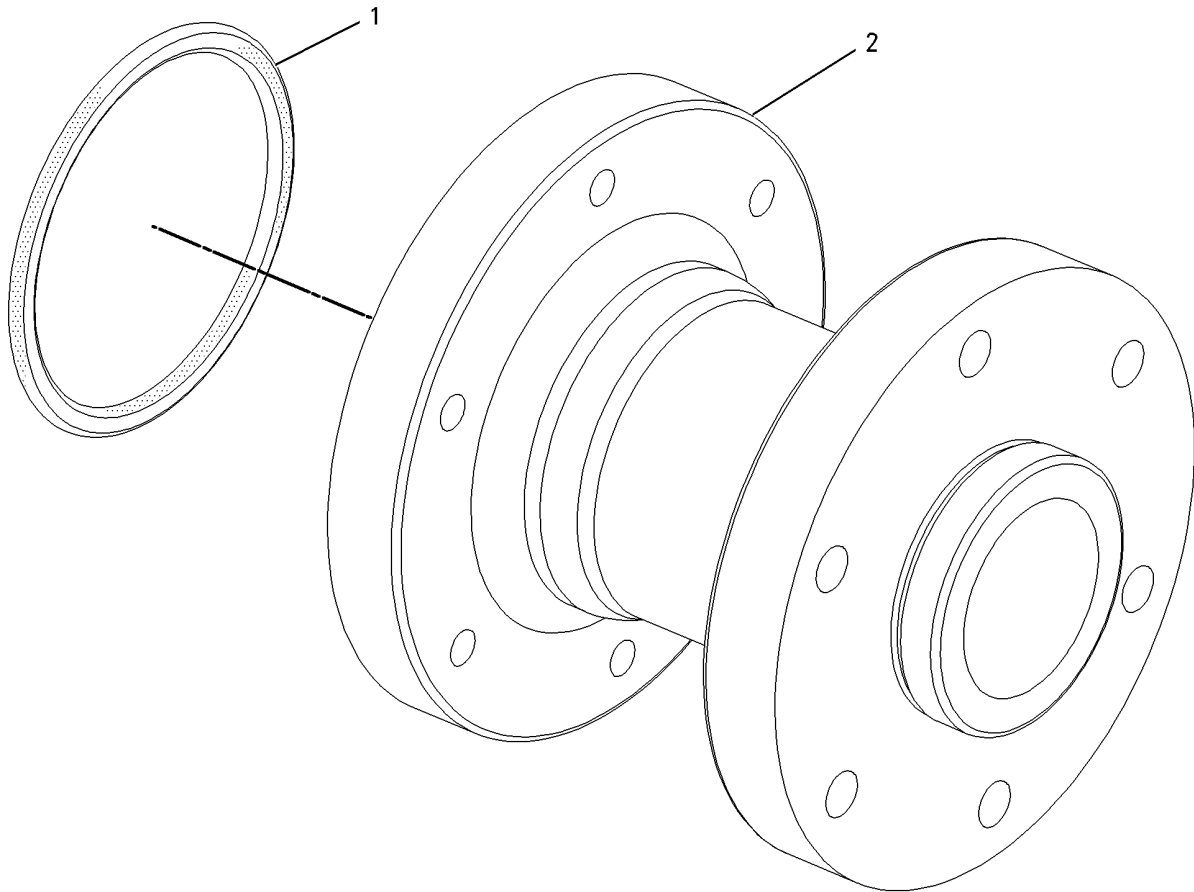
197-8106 ADAPTER GP-FAN

AN ATTACHMENT

SMCS-1356, 1359

i02505575

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	131-8154	1	ADAPTER-FAN						



GRAPHIC #1

<END>

g00755882

COOLING SYSTEM

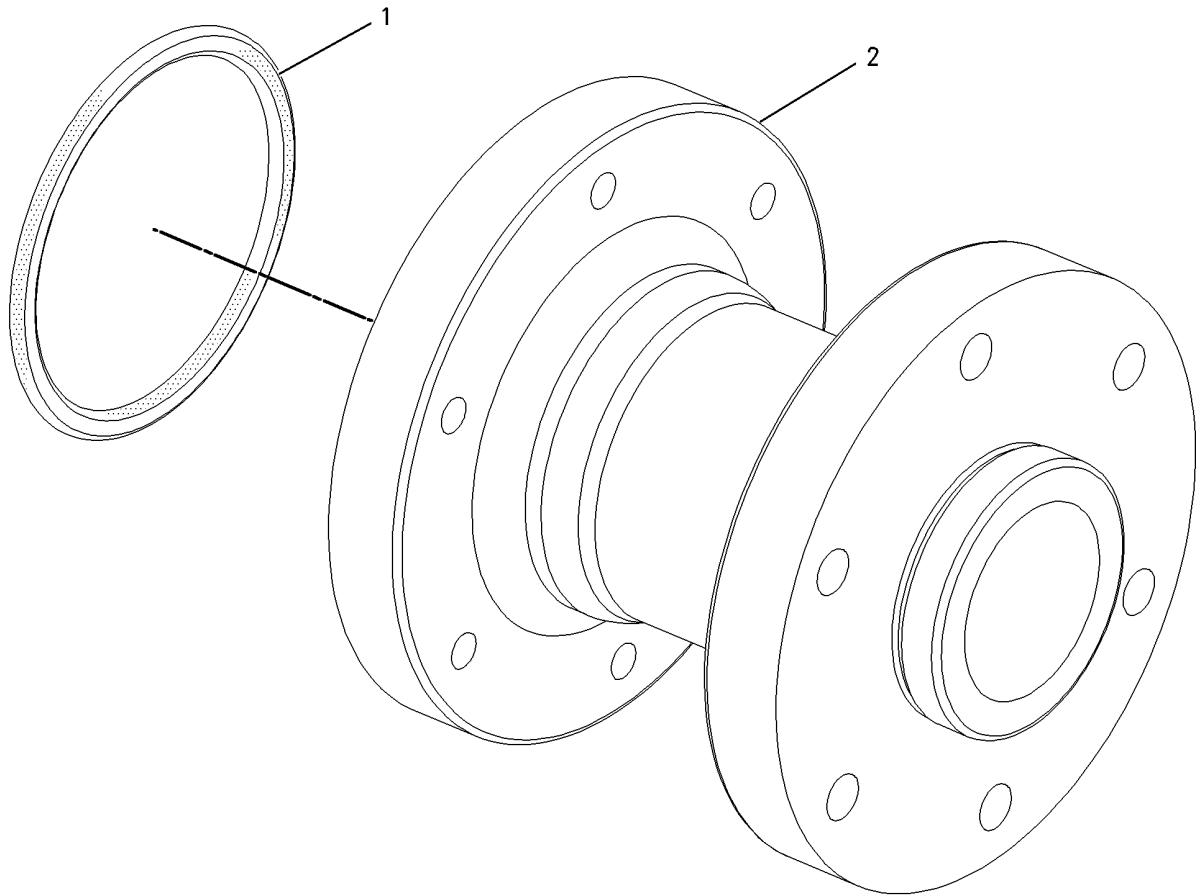
197-8107 ADAPTER GP-FAN

AN ATTACHMENT

SMCS-1356, 1359

i02505577

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	130-5917	1	ADAPTER-FAN						



GRAPHIC #1

<END>

g00755888

COOLING SYSTEM

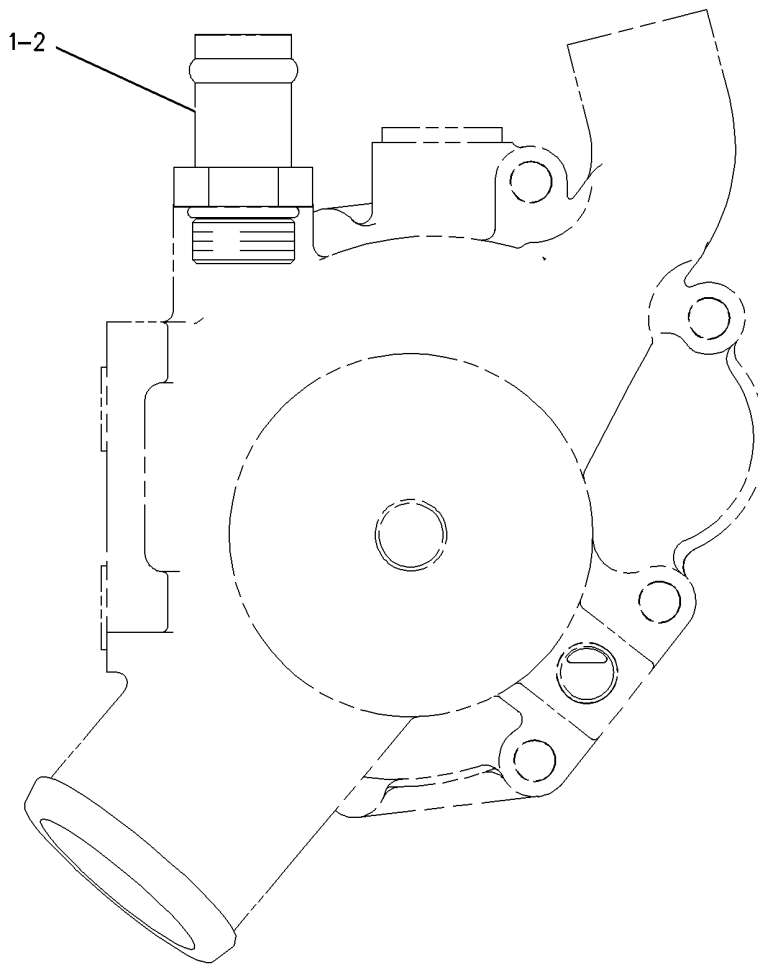
204-1528 CONNECTION GP-WATER

AN ATTACHMENT

SMCS-1380

i02547534

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	069-4269	1	STEM						
	2	1	3D-2824	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00784420

COOLING SYSTEM

188-3826 COOLER GP-ENGINE OIL

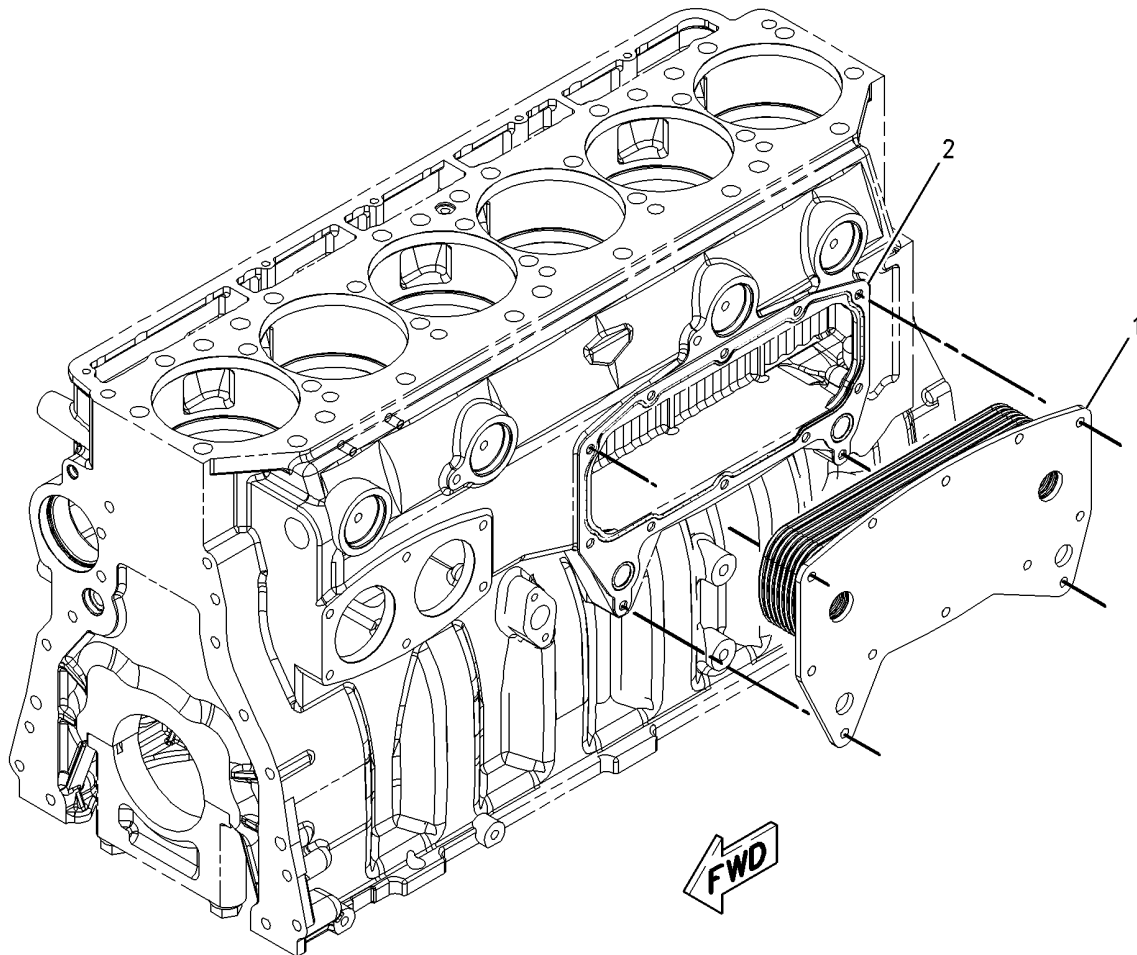
PART OF 287-3653 ENGINE AR-CORE

SMCS-1378

i01988128

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
R	1	1	237-4956	1	CORE AS-OIL COOLER (ENGINE)						
	2	1	209-7293	1	GASKET						

R-REMFG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g00837749

COOLING SYSTEM

228-0780 COOLER GP-TRANSMISSION OIL

AN ATTACHMENT

SMCS-1375

i02504742

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2S-0795	2	GASKET						
	2	1	6F-7062	1	WASHER (12.7X19.05X1.83-MM THK)						
	3	1	8M-9307	1	PLUG-DRAIN (TRANSMISSION OIL COOLER)						
	4	1	8S-4304	1	BONNET-TMSN OIL COOLER						
R	5	1	127-5537	1	CORE AS (TRANSMISSION OIL)						
	6	1	167-0160	1	BRACKET						
	7	1	180-3907	1	SEAL-INTEGRAL						
	8	1	180-8420	1	BONNET						
	9	1	0S-1595	4	BOLT (1/2-13X1.25-IN)						
	10	1	3J-1907	1	SEAL-O-RING						
	11	1	3K-0360	1	SEAL-O-RING						
	12	1	5P-8245	4	WASHER-HARD (13.5X25.5X3-MM THK)						
M	13	1	6V-1819	1	BOLT (M10X1.5X100-MM)						
M	14	1	6V-3668	2	BOLT (M12X1.75X30-MM)						
	15	1	7M-8485	1	SEAL-O-RING						
M	16	1	8T-5030	2	BOLT (M10X1.5X120-MM)						
M	17	1	8T-7950	3	BOLT (M10X1.5X180-MM)						
	18	1	9S-4181	1	PLUG-O RING						
	19	1	9S-4185	1	PLUG						
	20	1	9S-4191	1	PLUG-O RING						
	21	1	9X-8873	2	BOLT (1/2-13X2.25-IN)						
	22	1	9X-8877	6	BOLT (1/2-13X5-IN)						
	23	1	198-3462	1	DIVERTER						

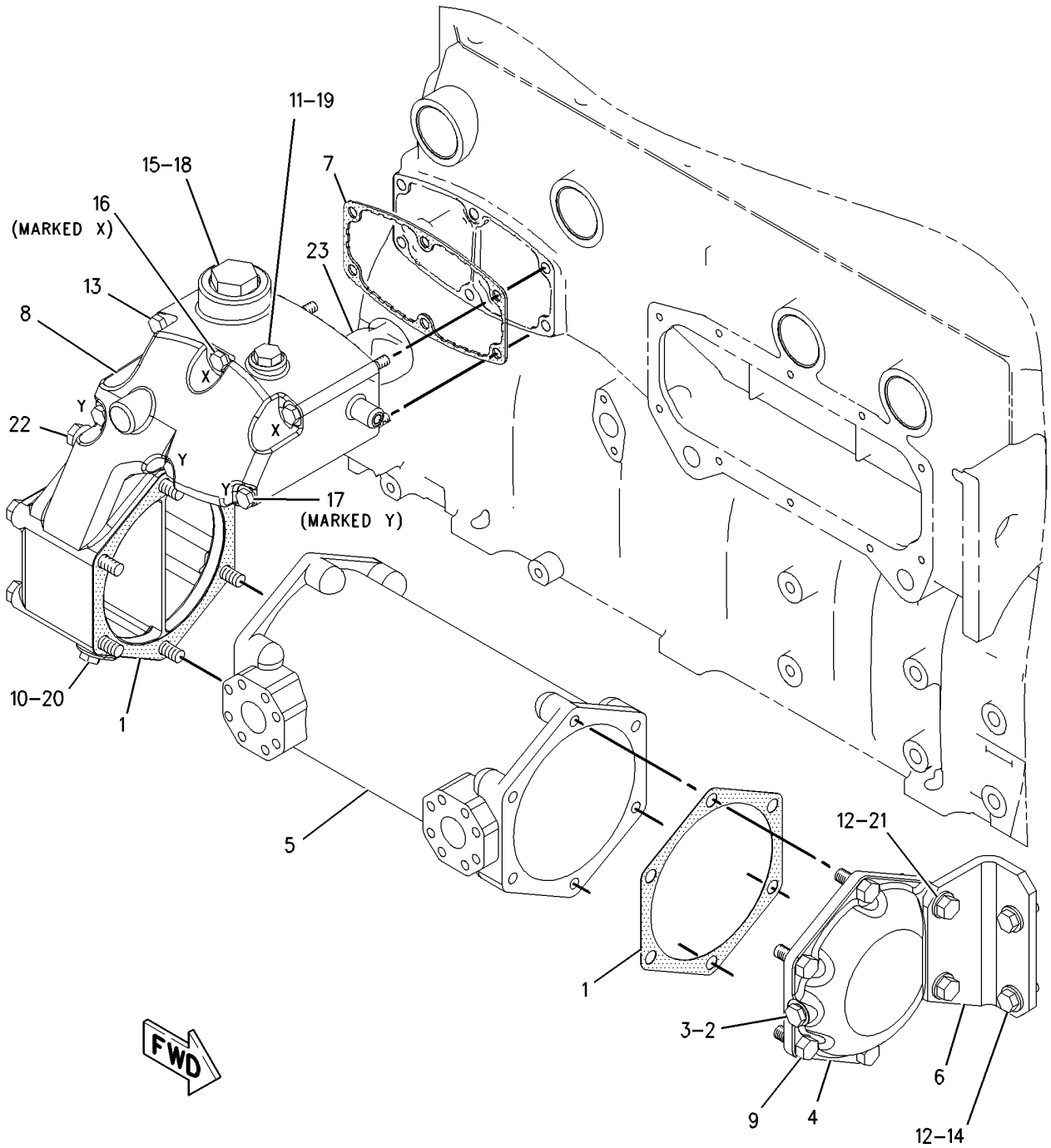
M-METRIC PART

R-REMG PART MAY BE AVAILABLE

COOLING SYSTEM

228-0780 COOLER GP-TRANSMISSION OIL (contd.)

i02504742



GRAPHIC #1

<END>

g00985692

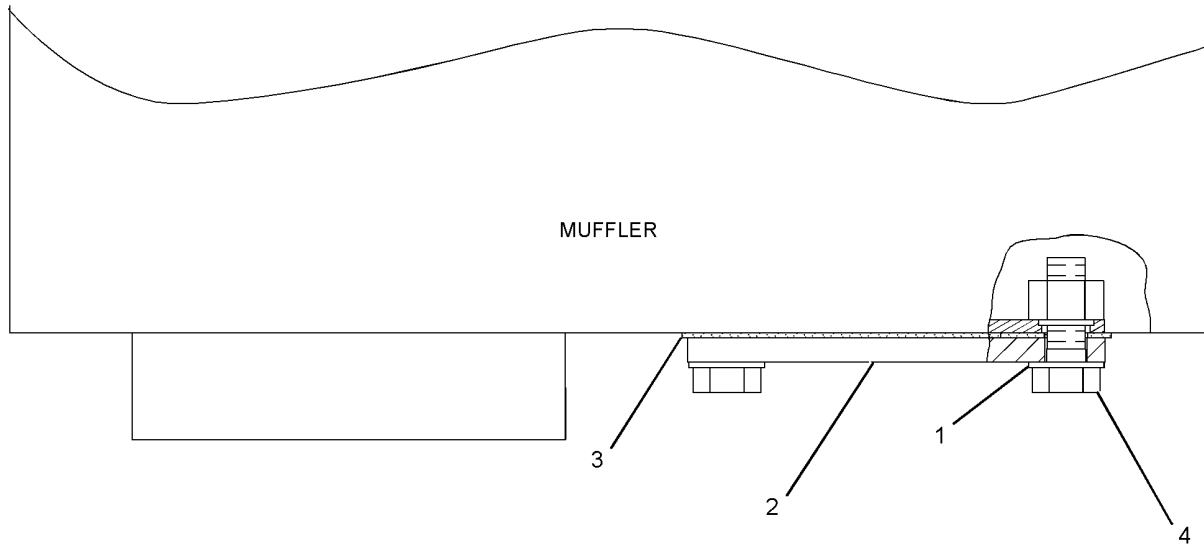
COOLING SYSTEM

279-5445 COVER GP-MUFFLER EXHAUST ASPIRATION TUBE AN ATTACHMENT

SMCS-1378

i02504762

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-4896	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	2	1	6H-6698	1	COVER						
	3	1	7W-2735	1	GASKET						
	4	1	4L-6454	2	BOLT (3/8-16X1-IN)						



GRAPHIC #1

<END>

g01252417

COOLING SYSTEM

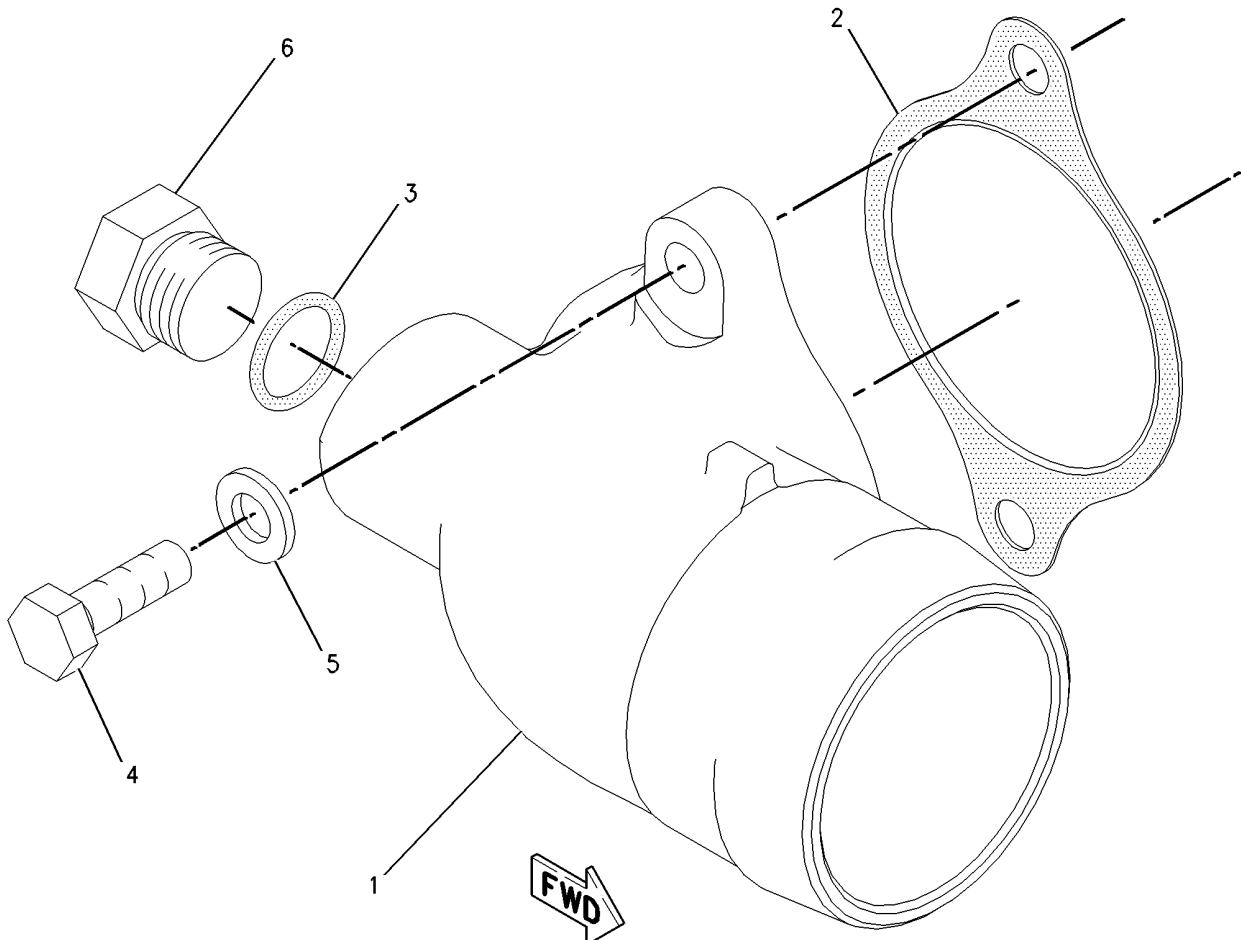
200-1213 ELBOW GP-WATER-WATER PUMP AN ATTACHMENT

SMCS-1380

i02178862

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-7386	1	ELBOW						
	2	1	200-2258	1	GASKET						
	3	1	3K-0360	1	SEAL-O-RING						
M	4	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	5	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	6	1	9S-4185	1	PLUG						

M-METRIC PART



GRAPHIC #1

<END>

g00795408

COOLING SYSTEM

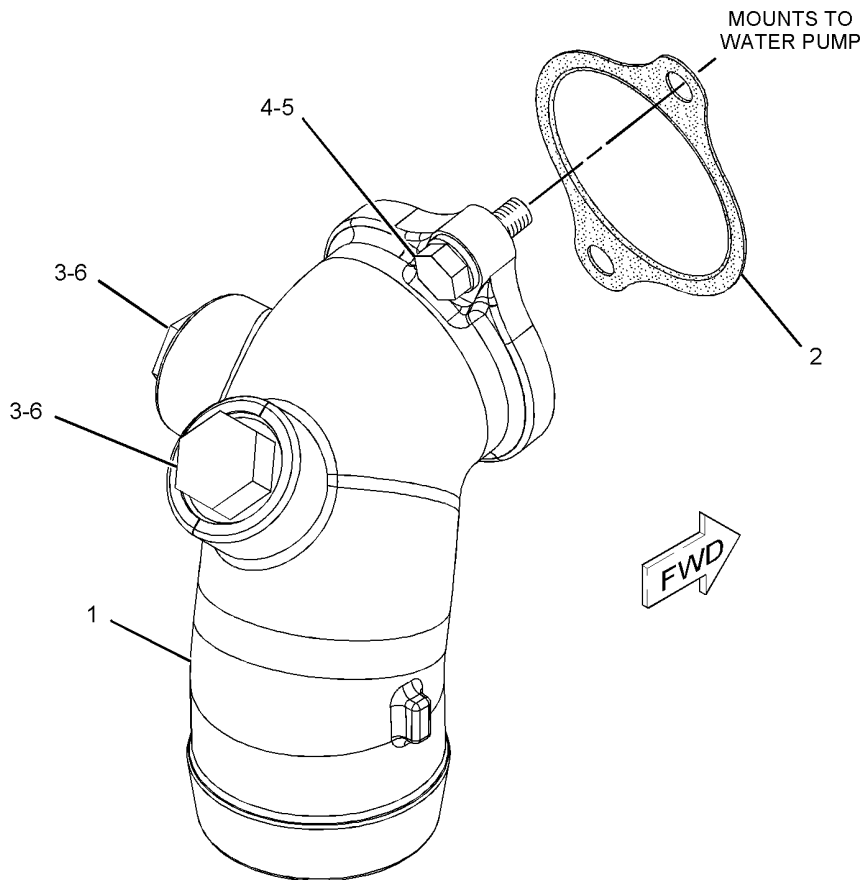
200-1215 ELBOW GP-WATER-WATER PUMP AN ATTACHMENT

SMCS-1380

i02271039

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	200-2257	1	ELBOW						
	2	1	200-2258	1	GASKET						
	3	1	3K-0360	2	SEAL-O-RING						
M	4	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	5	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	6	1	9S-4185	2	PLUG						

M-METRIC PART



GRAPHIC #1

<END>

g01139621

COOLING SYSTEM

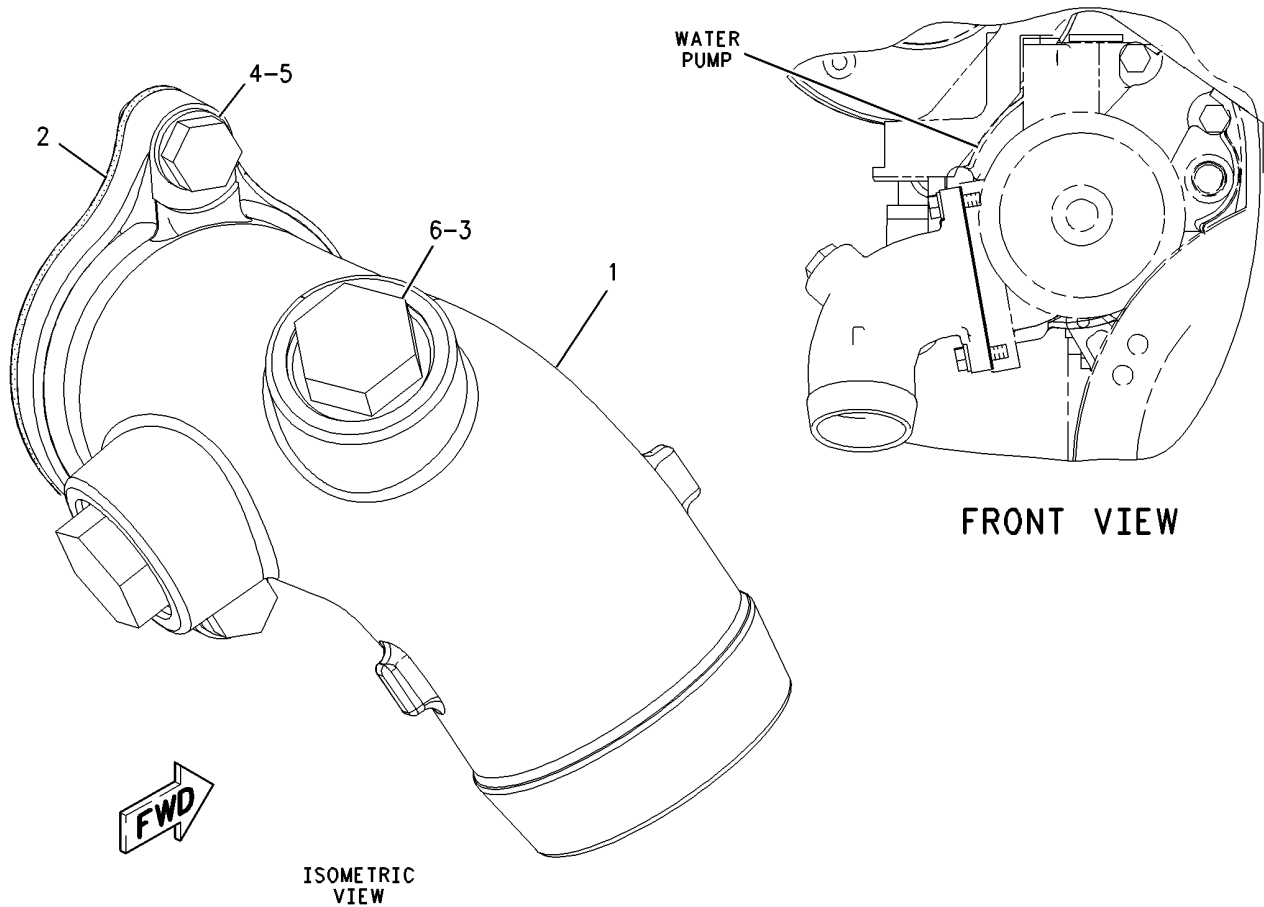
231-4545 ELBOW GP-WATER-WATER PUMP AN ATTACHMENT

SMCS-1380

i02292855

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	200-2257	1	ELBOW						
	2	1	200-2258	1	GASKET						
	3	1	3K-0360	2	SEAL-O-RING						
M	4	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	5	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						
	6	1	9S-4185	2	PLUG						

M-METRIC PART



GRAPHIC #1

<END>

g00952475

COOLING SYSTEM

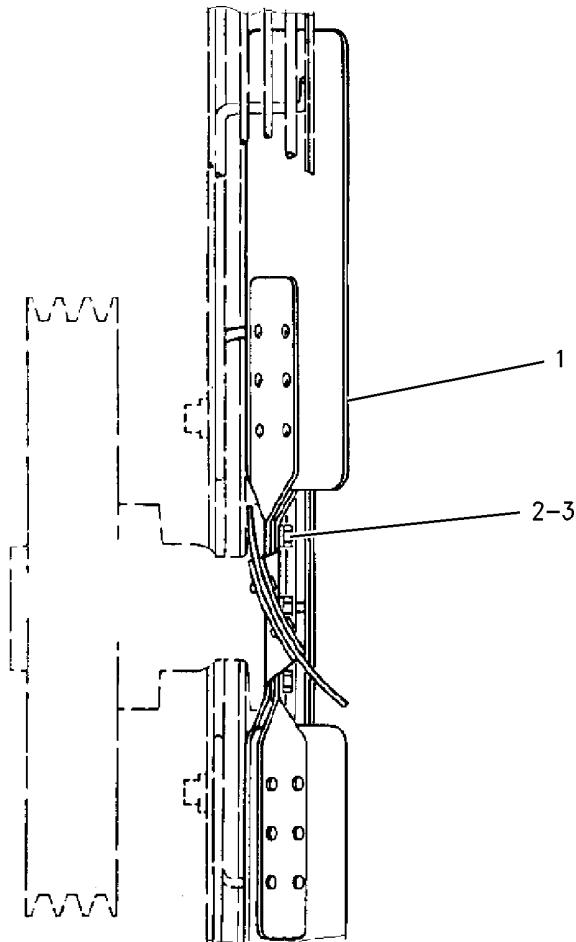
4N-2569 FAN GP-BLOWER

AN ATTACHMENT

SMCS-1356, 1360

i02549950

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-FAN (6 BLADE)						
	2	1	8T-2502	6	BOLT (3/8-16X1.125-IN)						
	3	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00727447

COOLING SYSTEM

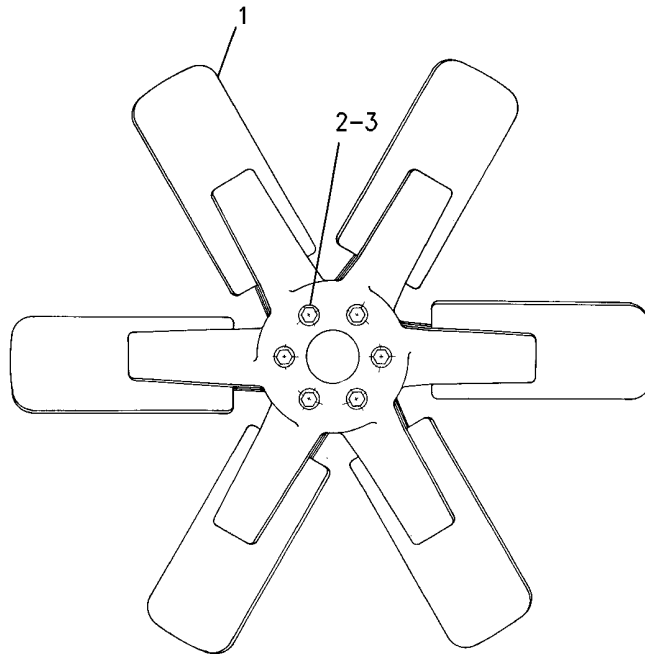
7C-7463 FAN GP-BLOWER

AN ATTACHMENT

SMCS-1356, 1360

i02505110

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 (6-BLADE)						
	2	1	8T-2502	6	BOLT (3/8-16X1.125-IN)						
	3	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00937380

COOLING SYSTEM

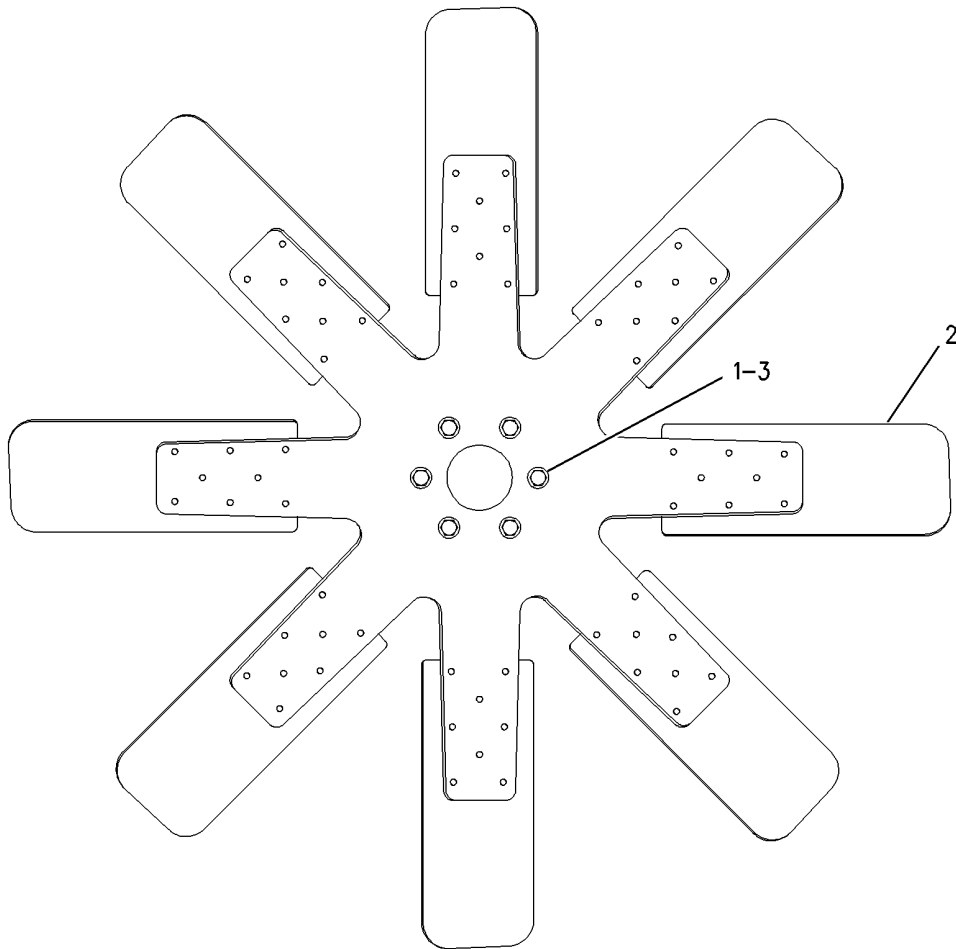
197-8110 FAN GP-BLOWER

AN ATTACHMENT

SMCS-1356, 1360

i02505579

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



GRAPHIC #1

<END>

g00754381

COOLING SYSTEM

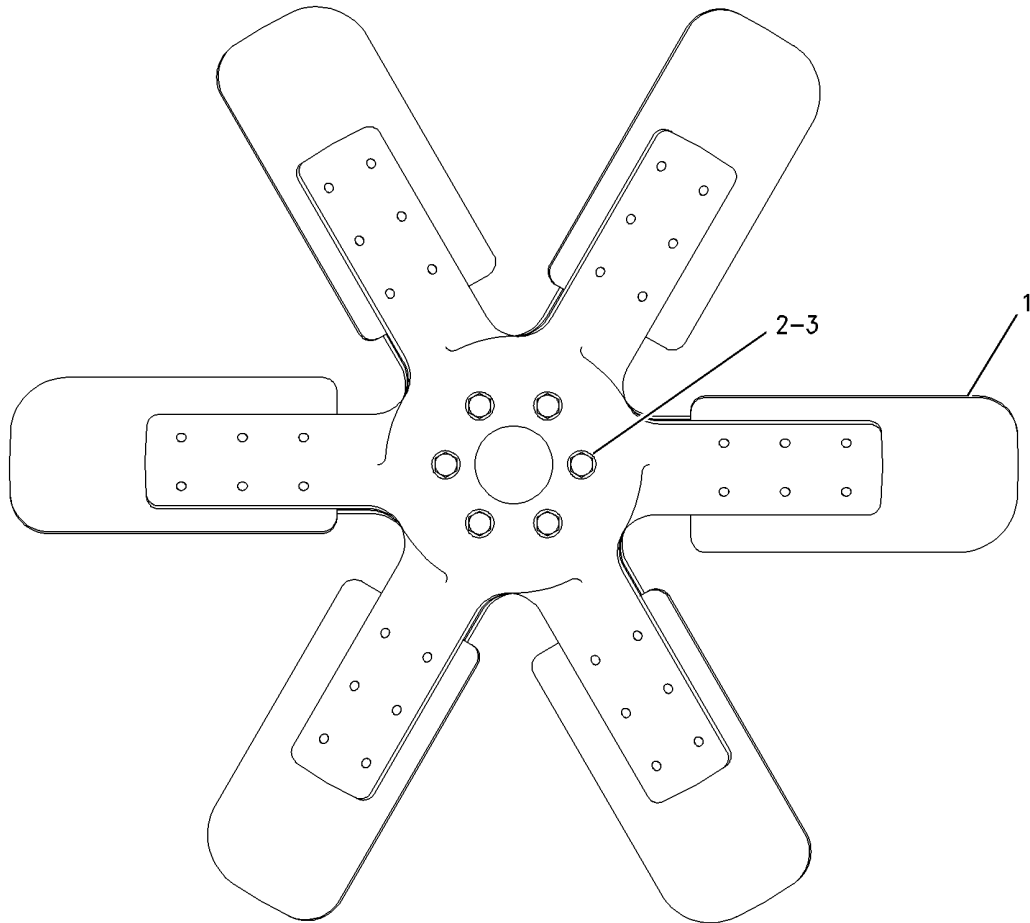
198-7626 FAN GP-BLOWER

AN ATTACHMENT

SMCS-1356, 1360

i02505580

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 (6-BLADE)						
	2	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00754388

COOLING SYSTEM

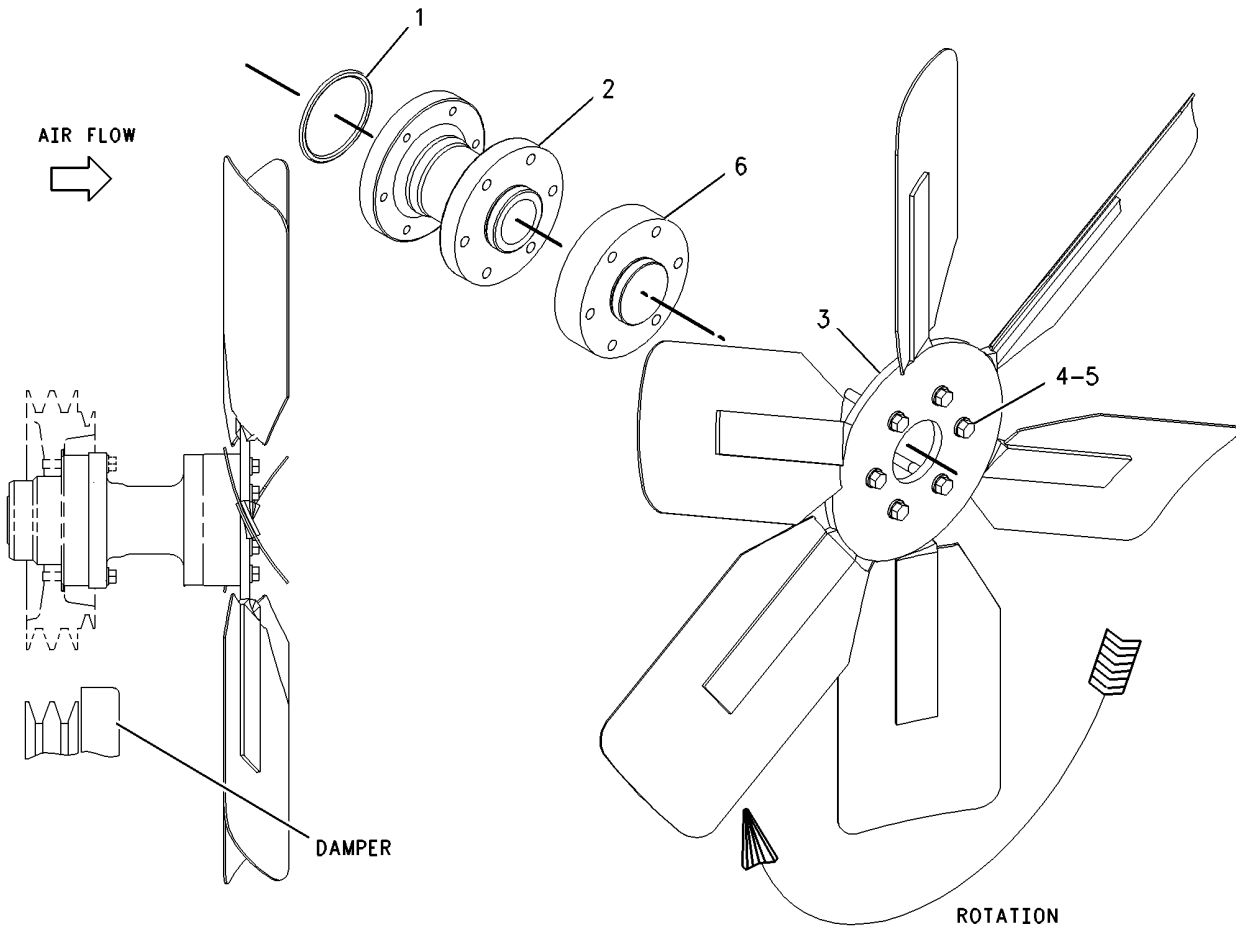
228-4311 FAN GP-BLOWER

AN ATTACHMENT

SMCS-1356, 1360

i02509970

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	131-8154	1	ADAPTER-FAN						
	3	1	4N-2571	1	SPIDER AS-FAN (6 BLADES)						
	4	1	4L-6459	6	BOLT (3/8-16X2.5-IN)						
	5	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	6	1	230-2549	1	SPACER						



GRAPHIC #1

<END>

g01004526

COOLING SYSTEM

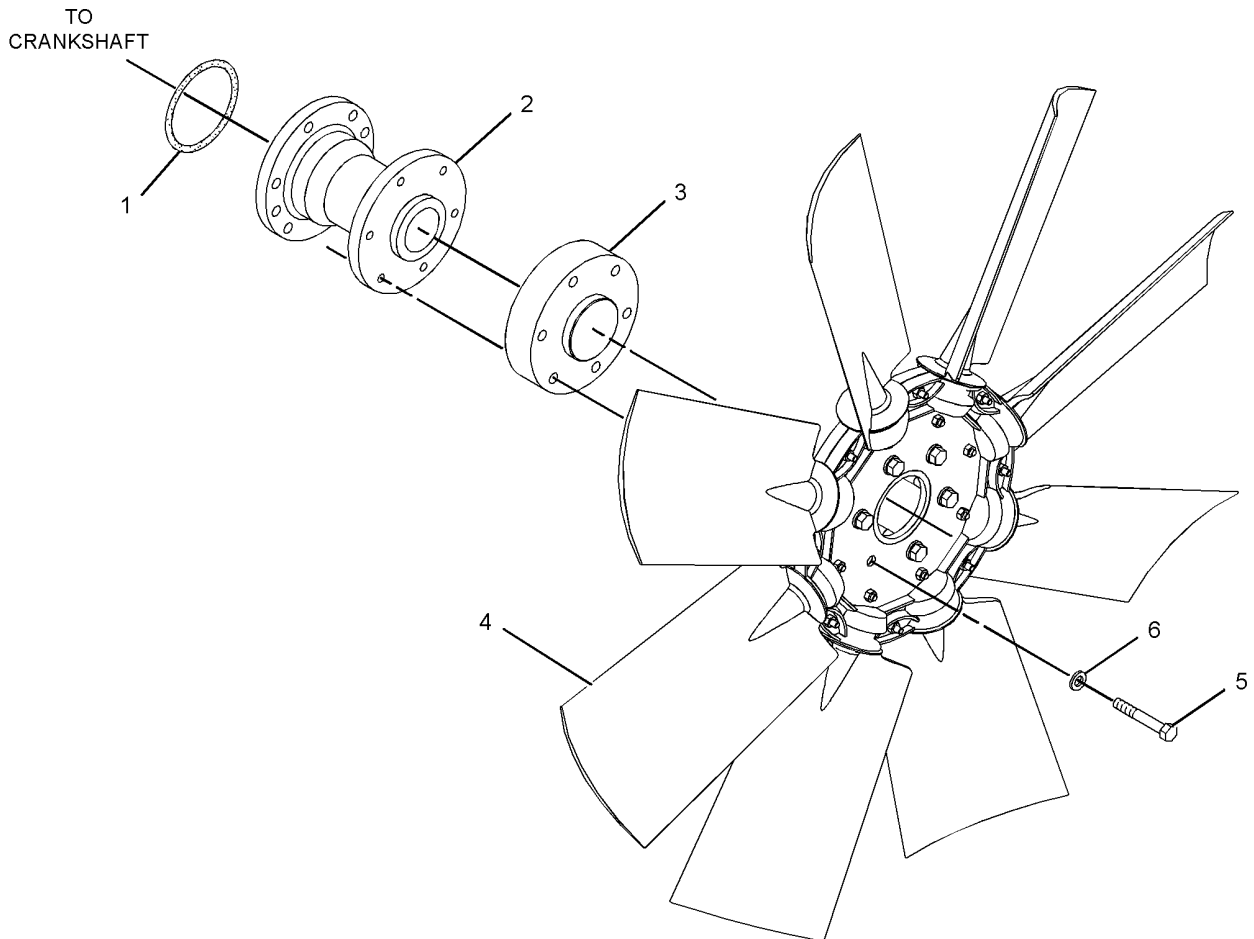
291-6079 FAN GP-BLOWER

FOR USE WITH 253-7179-PAGE 252
AN ATTACHMENT

SMCS-1356, 1360

i02549748

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	197-8108	1	ADAPTER-FAN						
	3	1	230-2549	1	SPACER						
	4	1	291-6080	1	SPIDER AS (BLOWER FAN)						
	5	1	4L-6459	6	BOLT (3/8-16X2.5-IN)						
	6	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g01277370

COOLING SYSTEM

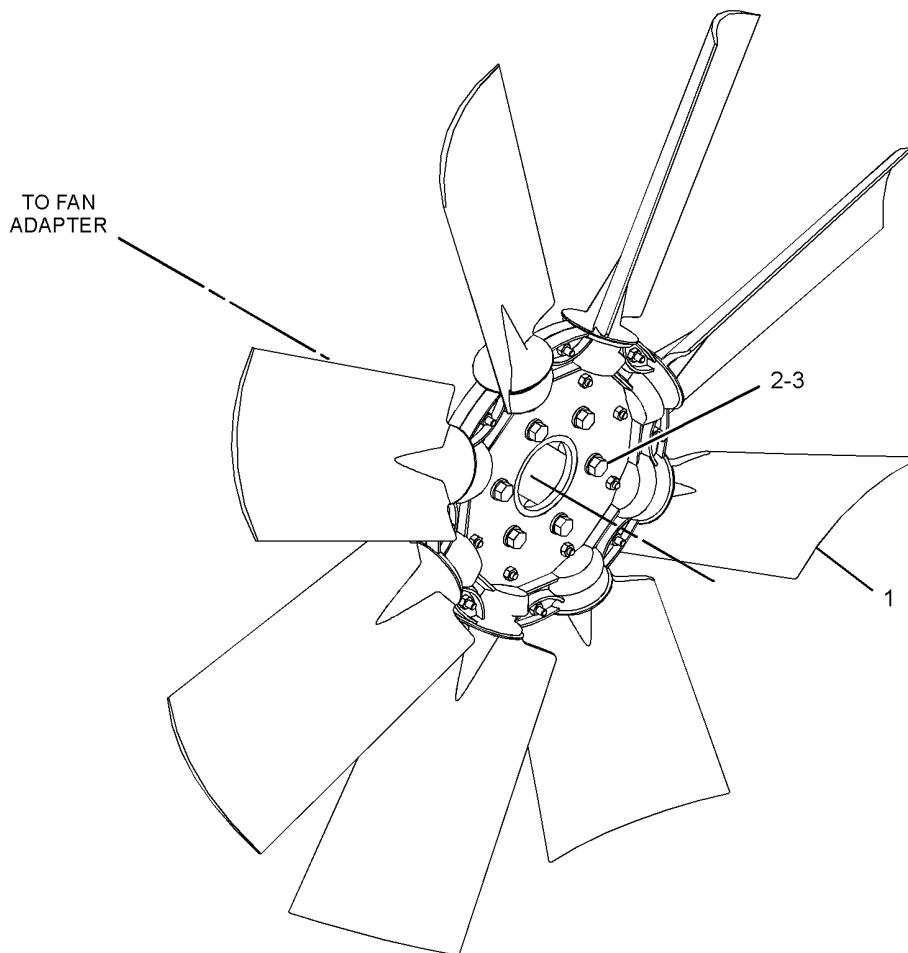
292-1377 FAN GP-BLOWER

AN ATTACHMENT

SMCS-1356, 1360

i02549710

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	291-6080	1	SPIDER AS (BLOWER FAN)						
	2	1	4L-6459	6	BOLT (3/8-16X2.5-IN)						
	3	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g01277320

COOLING SYSTEM

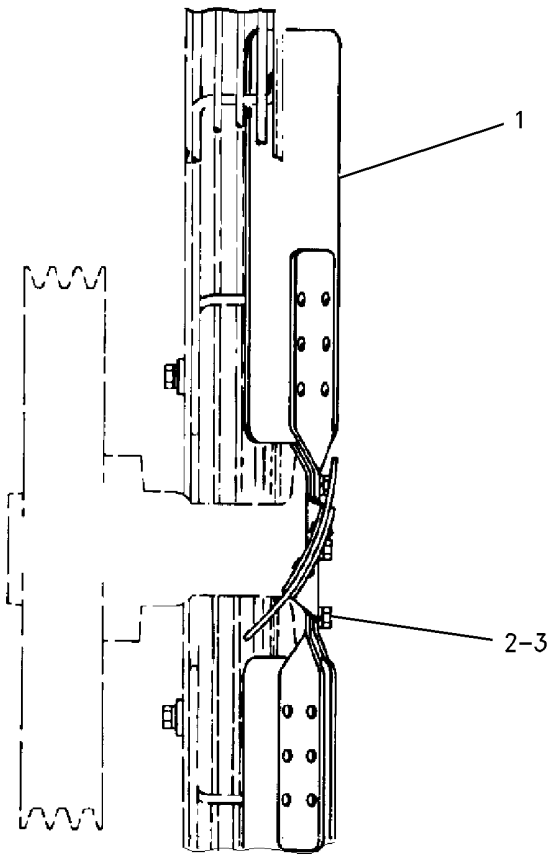
4N-2570 FAN GP-SUCTION

838.2 MM (33 INCH)
AN ATTACHMENT

SMCS-1356

i01821431

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

<END>

g00787102

COOLING SYSTEM

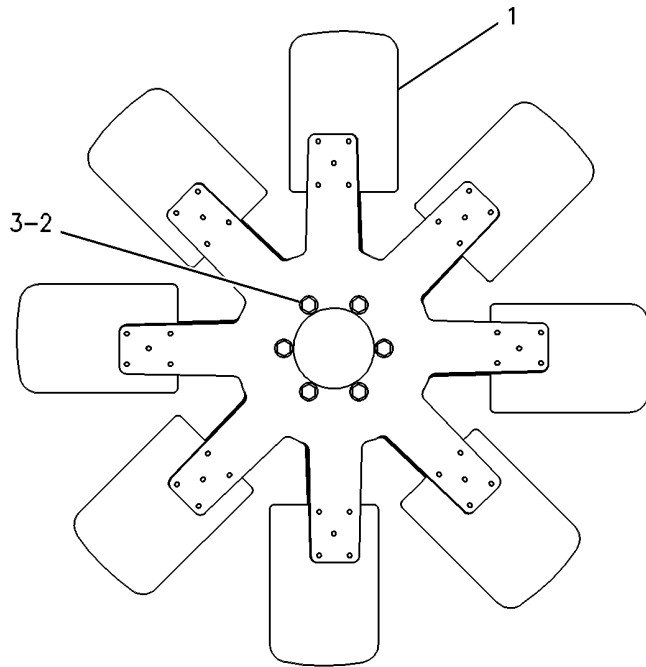
135-2036 FAN GP-SUCTION

AN ATTACHMENT

SMCS-1356

i02505566

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-BLADE)						
	2	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00261318

COOLING SYSTEM

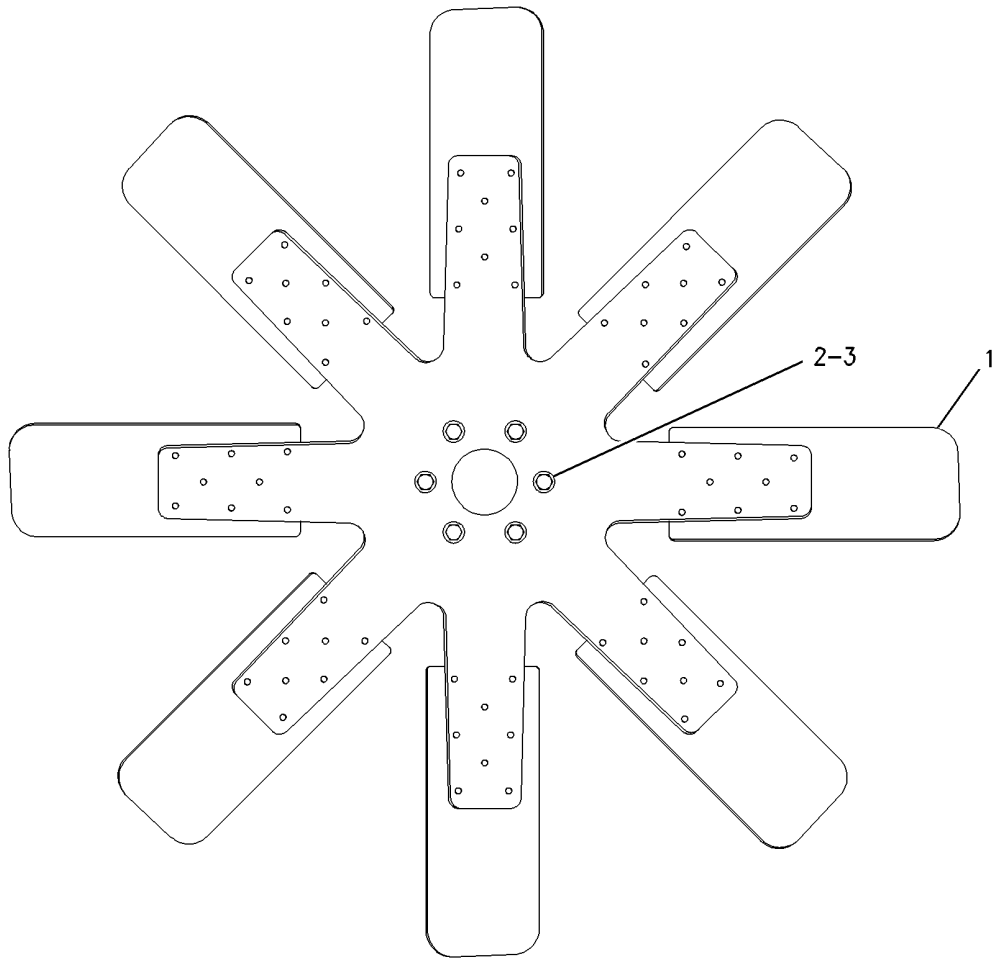
197-8109 FAN GP-SUCTION

AN ATTACHMENT

SMCS-1356

i02457292

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 (8-BLADE)						
	2	1	0S-1591	6	BOLT (3/8-16X1.5-IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00754377

COOLING SYSTEM

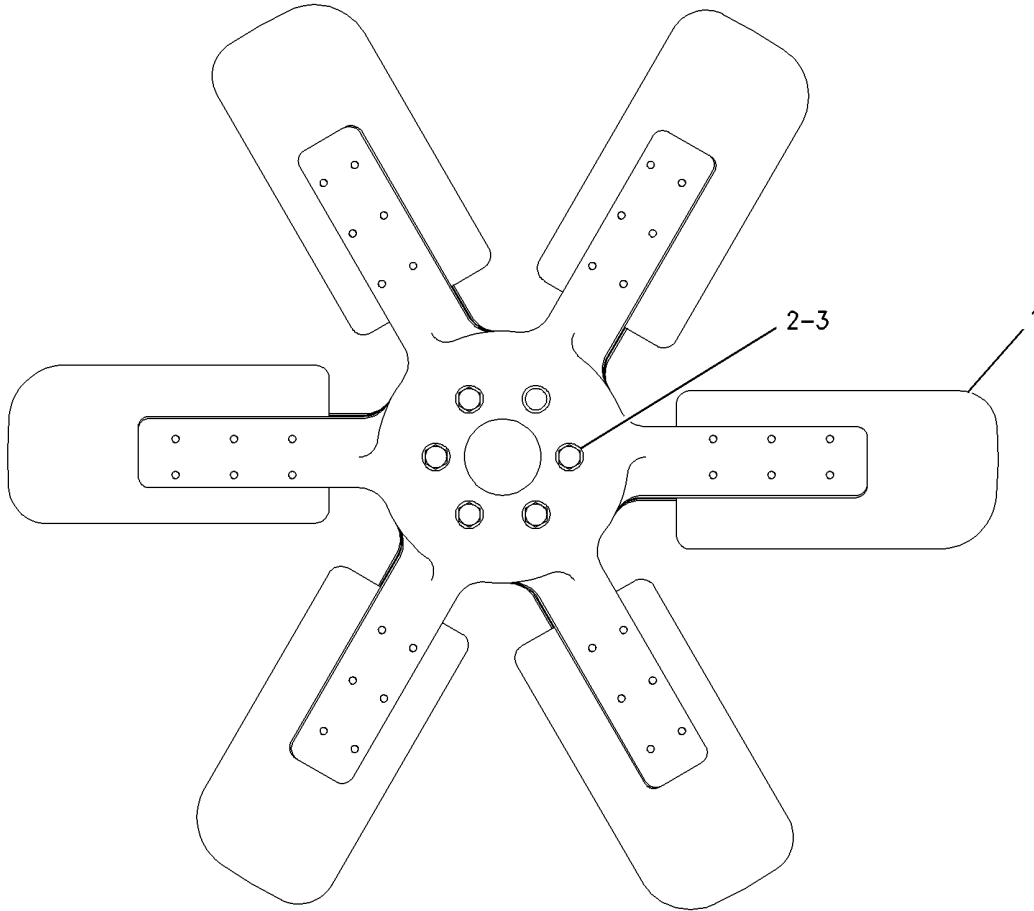
198-7625 FAN GP-SUCTION

660.4 MM (26 INCH)
AN ATTACHMENT

SMCS-1356

i02250370

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 (6-BLADE)						
	2	1	1A-2029	6	BOLT (3/8-16X1.125-IN)						
	3	1	5M-2894	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00754385

COOLING SYSTEM

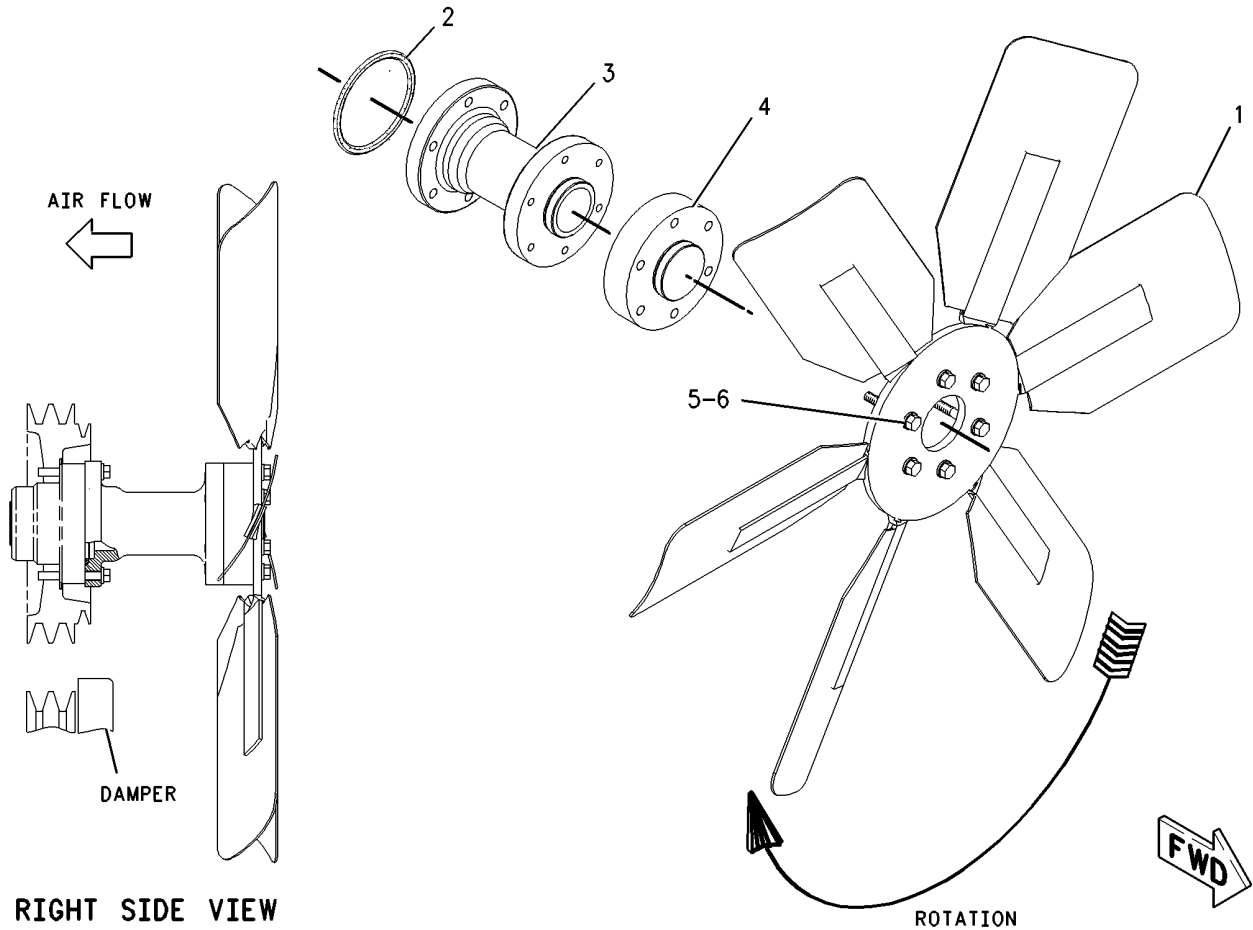
228-4312 FAN GP-SUCTION

AN ATTACHMENT

SMCS-1356

i02509971

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	9F-4446	1	SEAL-O-RING						
	3	1	131-8149	1	ADAPTER-FAN						
	4	1	230-2549	1	SPACER						
	5	1	4L-6459	6	BOLT (3/8-16X2.5-IN)						
	6	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01004487

COOLING SYSTEM

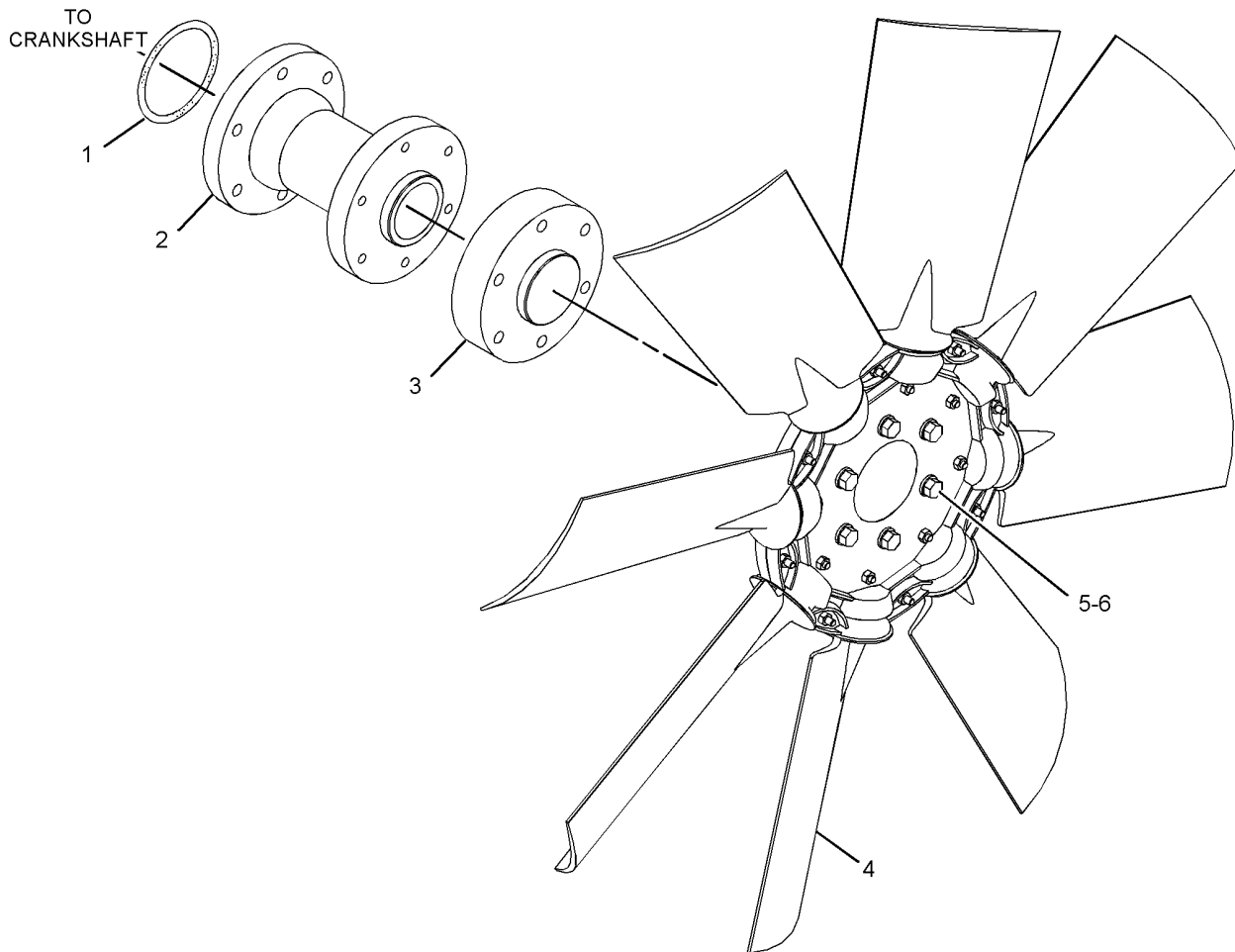
291-6077 FAN GP-SUCTION

FOR USE WITH 253-7179-PAGE 252
AN ATTACHMENT

SMCS-1356

i02549863

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	131-8149	1	ADAPTER-FAN						
	3	1	230-2549	1	SPACER						
	4	1	291-6078	1	SPIDER AS						
	5	1	4L-6459	6	BOLT (3/8-16X2.5-IN)						
	6	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g01277424

COOLING SYSTEM

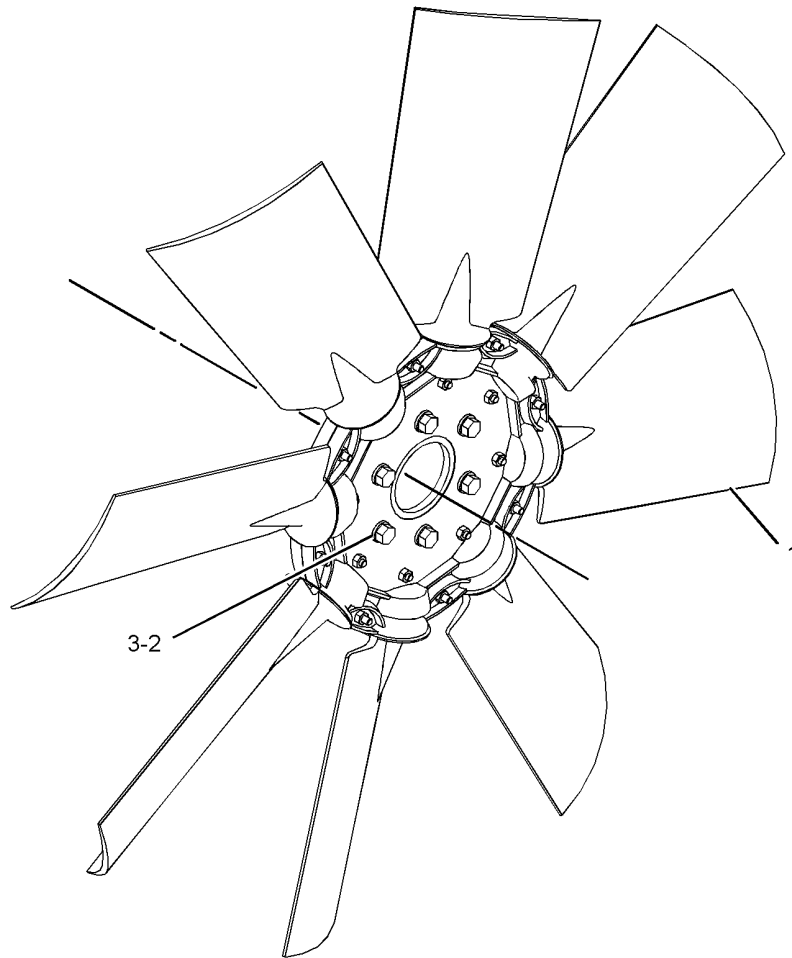
292-1376 FAN GP-SUCTION

AN ATTACHMENT

SMCS-1356

i02549734

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	291-6078	1	SPIDER AS						
	2	1	4L-6459	6	BOLT (3/8-16X2.5-IN)						
	3	1	8T-4896	6	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g01277323

COOLING SYSTEM

228-4333 GUARD GP-RADIATOR

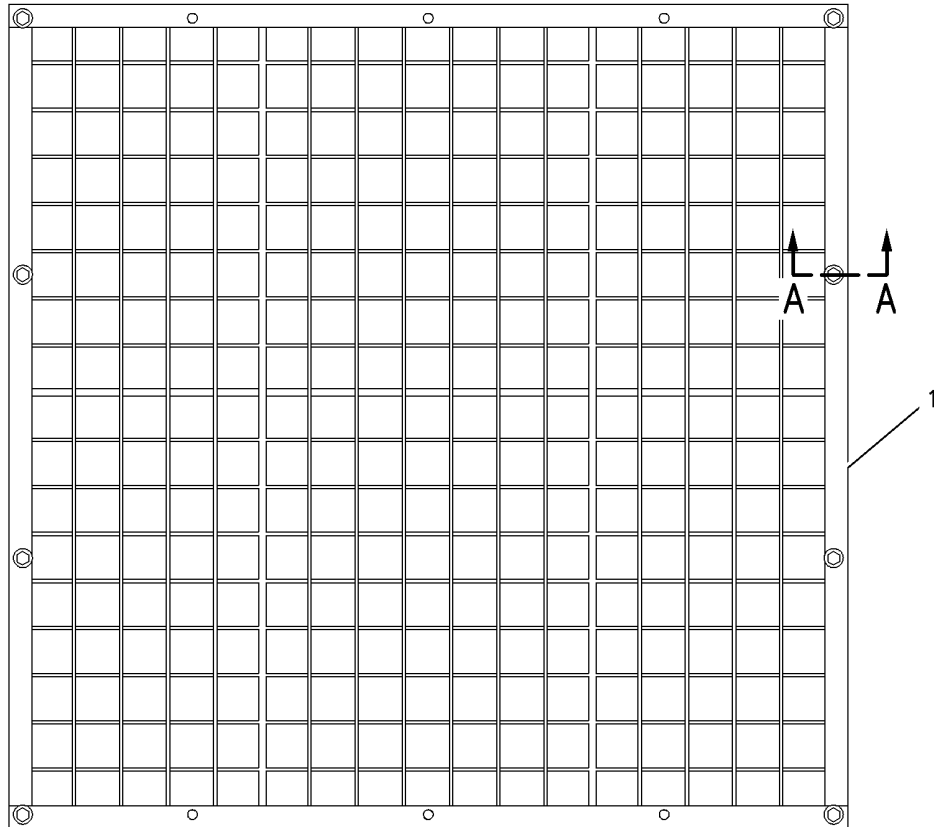
AN ATTACHMENT

SMCS-7155

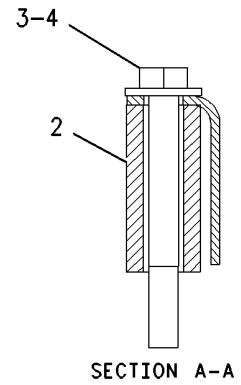
i02509974

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7C-8629	1	FLANGE AS-DUCT						
	2	1	199-7854	8	SPACER (11.8X20X45-MM THK)						
	3	1	5P-4116	8	WASHER-HARD (8.8X20.5X2-MM THK)						
M	4	1	8T-6870	8	BOLT (M8X1.25X70-MM)						

M-METRIC PART



FRONT VIEW



GRAPHIC #1

<END>

g00989291

COOLING SYSTEM

210-6184 LINES GP-WATER DUAL THERMOSTAT, PROVIDES FORWARD OUTLET AN ATTACHMENT

SMCS-1355, 1380, 1393

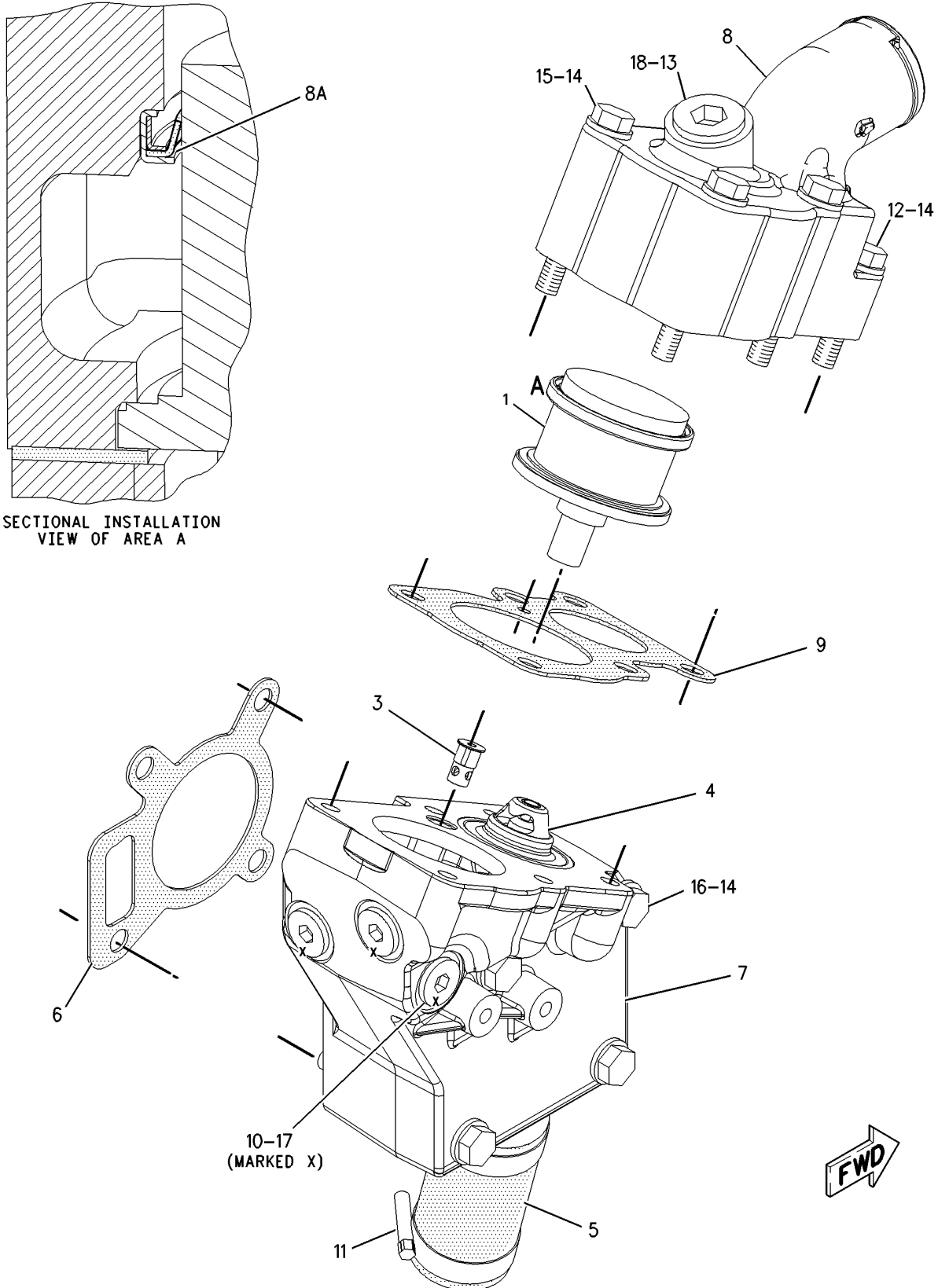
i02597415

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	247-7133	1	REGULATOR-WATER TEMPERATURE (98-DEG C) (COOLANT)						
	3	1	8N-4485	1	VALVE AS-VENT (WATER TEMPERATURE REGULATOR)						
	4	1	284-5421	1	REGULATOR-WATER TEMPERATURE (97-DEG C) (COOLANT)						
	5	1	280-6794	1	HOSE						
	6	1	191-4457	1	GASKET (WATER REGULATOR HOUSING)						
	7	1	219-2334	1	HOUSING-WATER REGULATOR						
	8	1	219-2337	1	HOUSING AS (REGULATOR)						
	8A	1	3S-9643	1	SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)						
	9	1	219-2340	1	GASKET (WATER TEMPERATURE REGULATOR)						
	10	1	112-5282	3	SEAL-O-RING						
	11	1	237-5176	2	CLAMP-BAND						
M	12	1	6V-4249	2	BOLT (M10X1.5X50-MM)						
	13	1	6V-5063	1	SEAL-O-RING						
	14	1	6V-5839	10	WASHER (11X21X2.5-MM THK)						
M	15	1	8T-0643	4	BOLT (M10X1.5X80-MM)						
M	16	1	8T-0644	4	BOLT (M10X1.5X90-MM)						
	17	1	9S-8005	3	PLUG-O RING						
	18	1	9S-8008	1	PLUG-DRAIN (WATER REGULATOR HOUSING)						
M-METRIC PART											

COOLING SYSTEM

210-6184 LINES GP-WATER (contd.)

i02597415



SECTIONAL INSTALLATION
VIEW OF AREA A

GRAPHIC #1

<END>

g00975841

COOLING SYSTEM

220-2765 LINES GP-WATER DUAL THERMOSTAT, PROVIDES VERTICAL OUTLET AN ATTACHMENT

SMCS-1355, 1380, 1393

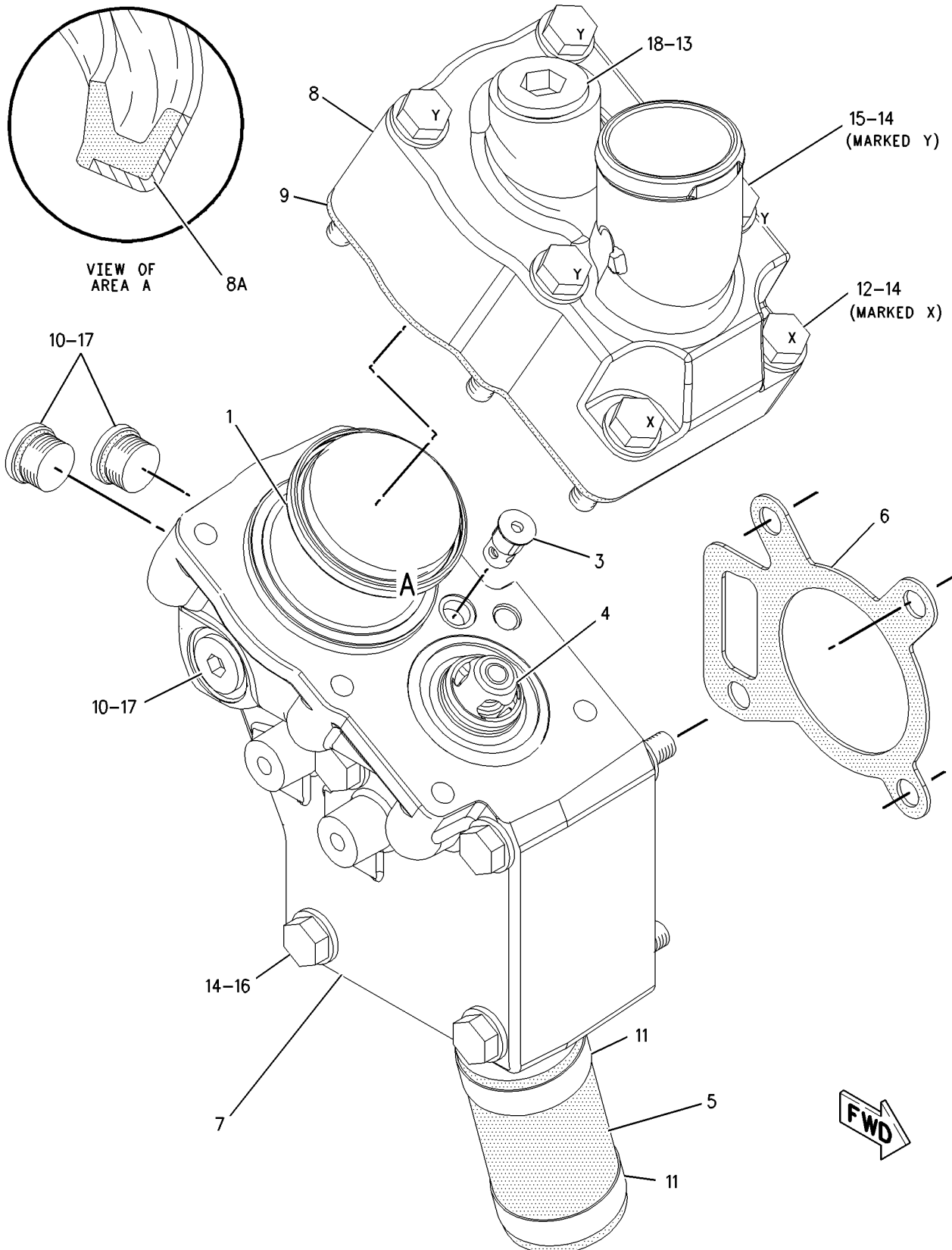
i02597417

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	247-7133	1	REGULATOR-WATER TEMPERATURE (98-DEG C) (COOLANT)						
	3	1	8N-4485	1	VALVE AS-VENT (WATER TEMPERATURE REGULATOR)						
	4	1	284-5421	1	REGULATOR-WATER TEMPERATURE (97-DEG C) (COOLANT)						
	5	1	280-6794	1	HOSE						
	6	1	191-4457	1	GASKET (WATER REGULATOR HOUSING)						
	7	1	219-2334	1	HOUSING-WATER REGULATOR						
	8	1	219-2335	1	HOUSING AS						
	8A	1	3S-9643	1	SEAL-LIP TYPE (WATER TEMPERATURE REGULATOR)						
	9	1	219-2340	1	GASKET (WATER TEMPERATURE REGULATOR)						
	10	1	112-5282	3	SEAL-O-RING						
	11	1	237-5176	2	CLAMP-BAND						
M	12	1	6V-4249	2	BOLT (M10X1.5X50-MM)						
	13	1	6V-5063	1	SEAL-O-RING						
	14	1	6V-5839	10	WASHER (11X21X2.5-MM THK)						
M	15	1	8T-0643	4	BOLT (M10X1.5X80-MM)						
M	16	1	8T-0644	4	BOLT (M10X1.5X90-MM)						
	17	1	9S-8005	3	PLUG-O RING						
	18	1	9S-8008	1	PLUG-DRAIN (WATER REGULATOR HOUSING)						
M-METRIC PART											

COOLING SYSTEM

220-2765 LINES GP-WATER (contd.)

i02597417



GRAPHIC #1

<END>

g00944986

COOLING SYSTEM

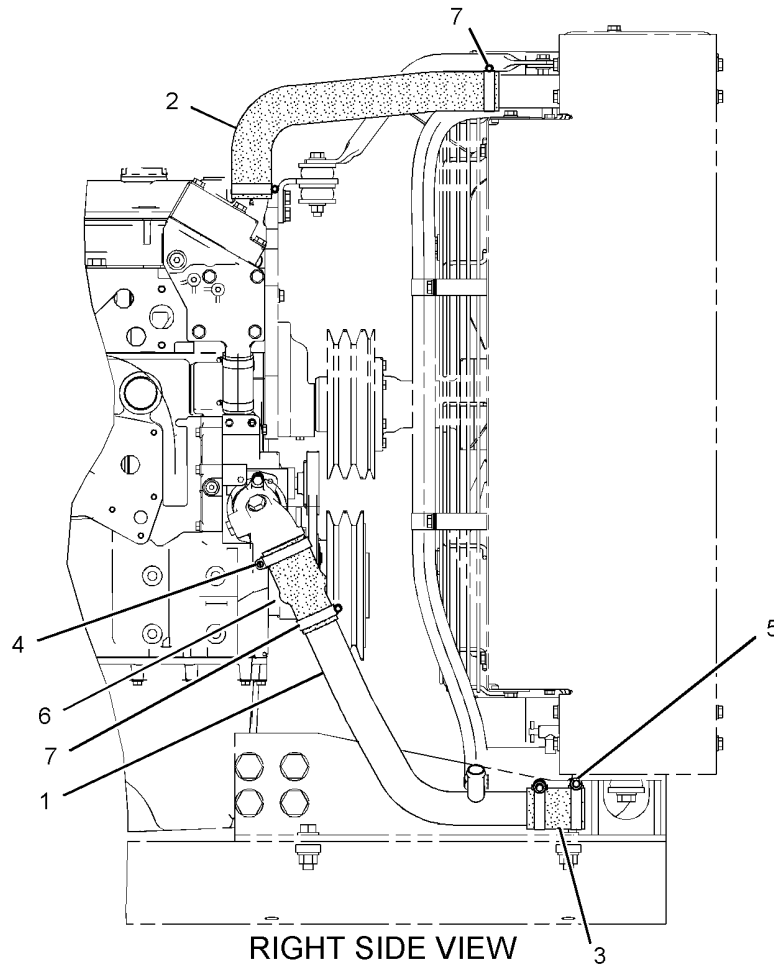
253-7173 LINES GP-WATER AN ATTACHMENT

SMCS-1355, 1380, 1393

i02515397

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	253-7174	1	TUBE AS						
	2	1	253-7175	1	HOSE						
E	3	1	5P-1259		HOSE (3.5-CM)						
	4	1	5P-4868	1	CLAMP-HOSE						
	5	1	8T-4984	2	CLAMP-HOSE						
	6	1	109-5351	1	HOSE						
	7	1	8T-6703	3	CLAMP-HOSE						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01143691

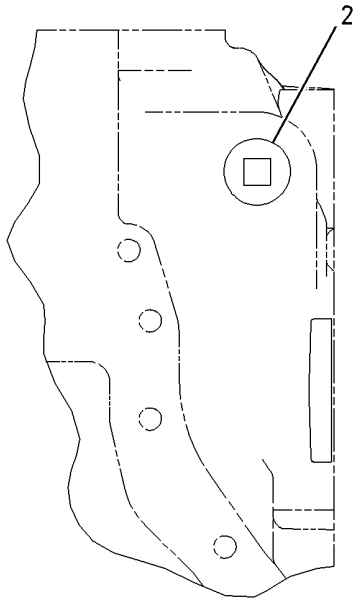
COOLING SYSTEM

205-4013 PLUG GP-WATER LINES-COOLANT AN ATTACHMENT

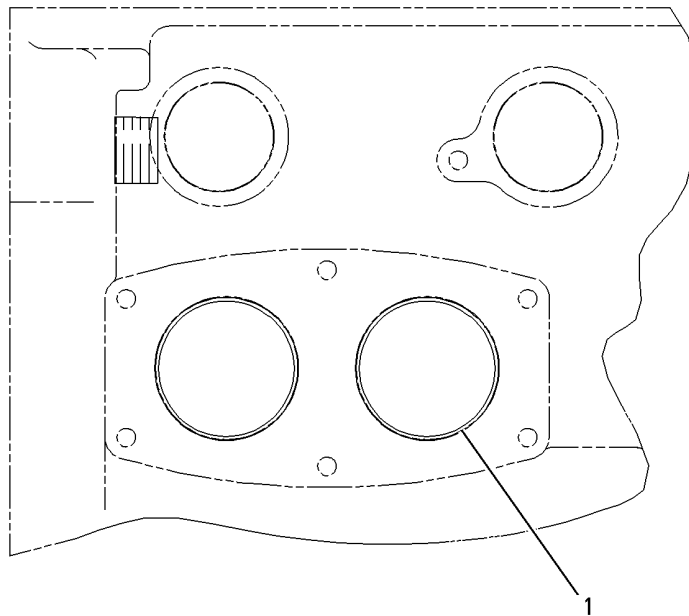
SMCS-1380

i01552293

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	209-1434	2	PLUG-CUP						
	2	1	8T-6761	1	PLUG-PIPE						



REAR VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00797632

COOLING SYSTEM

209-4600 PUMP GP-WATER

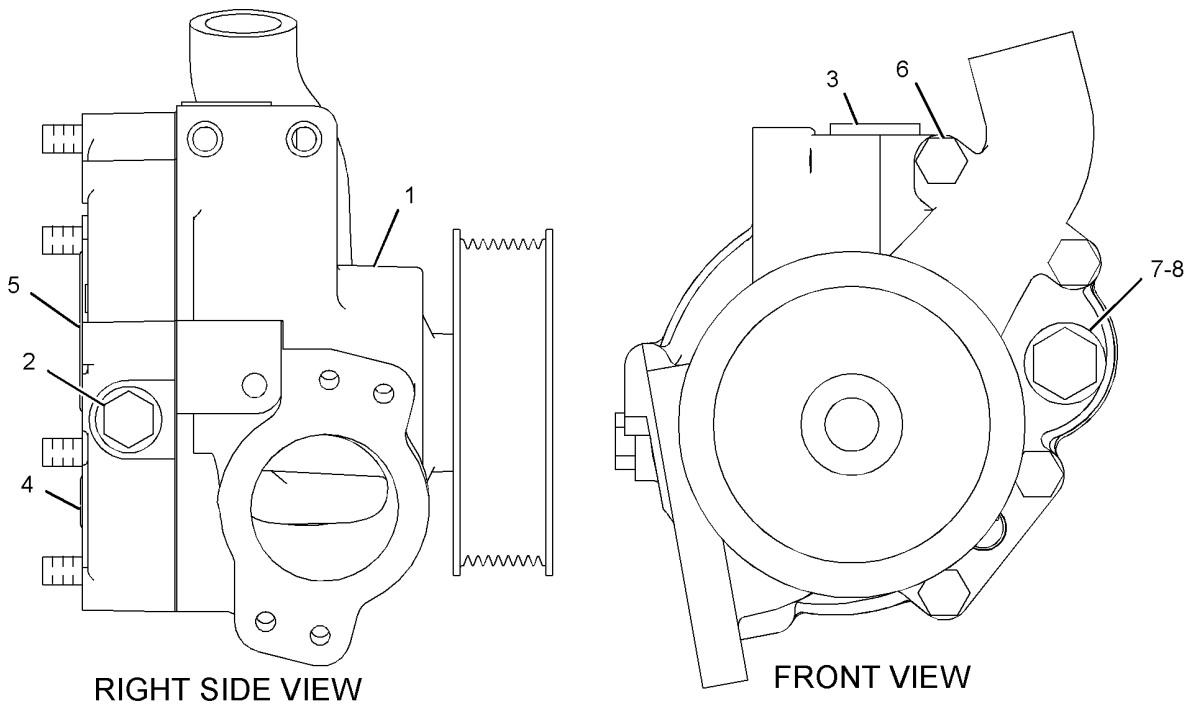
AN ATTACHMENT

SMCS-1361

i02597419

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	227-4299	1	PUMP GP-WATER						245
	2	1	148-8407	1	PLUG AS						
		1	3J-1907	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-O RING						
	3	1	148-8409	1	PLUG AS						
	1	3D-2824	1	SEAL-O-RING							
	1	9S-8008	1	PLUG-DRAIN (WATER PUMP)							
4	1	2M-4453	1	SEAL-O-RING							
5	1	4J-0525	1	SEAL-O-RING							
M	6	1	8T-0644	4	BOLT (M10X1.5X90-MM)						
	7	1	3K-0360	1	SEAL-O-RING						
	8	1	9S-4185	1	PLUG						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01142678

COOLING SYSTEM

227-4298 PUMP GP-WATER

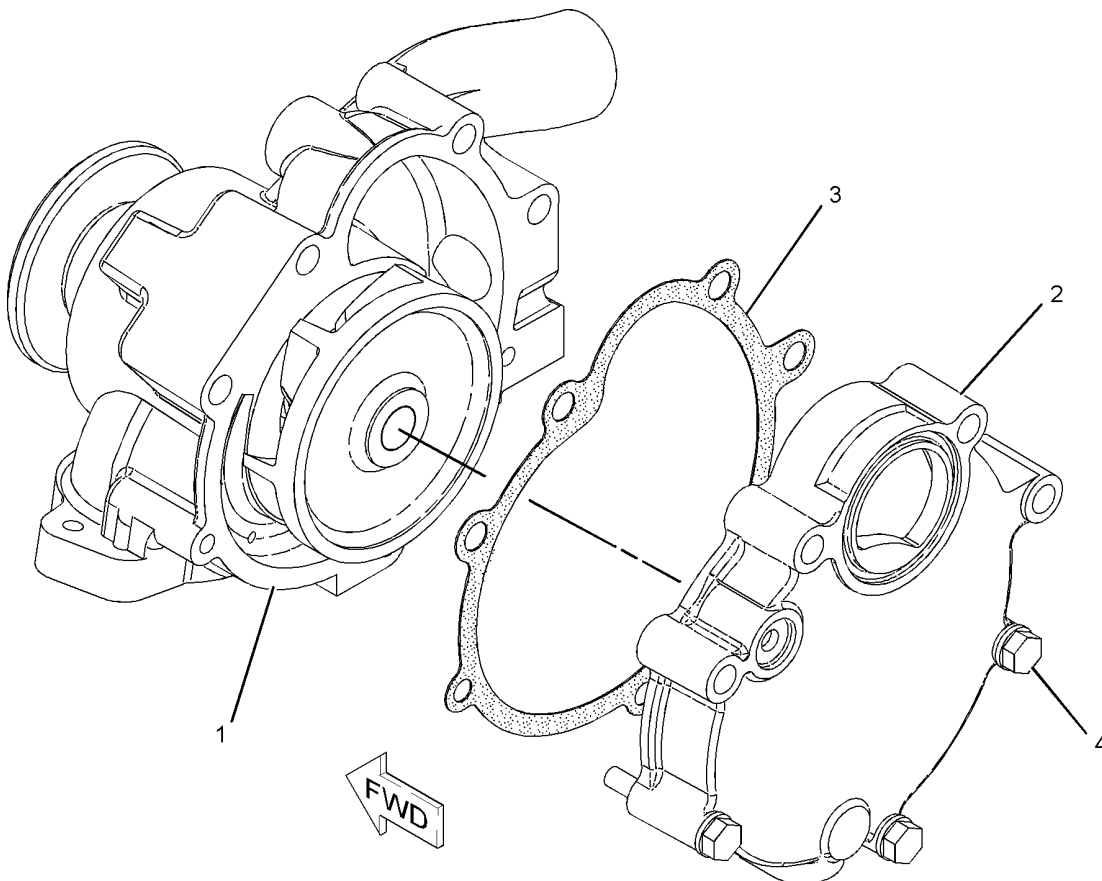
PART OF 260-1546 PUMP GP-WATER
AN ATTACHMENT

SMCS-1361

i02180051

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	227-4300	1	PUMP GP-WATER	246
	2	1	226-6051	1	COVER	
	3	1	197-9580	1	GASKET	
	4	1	183-2931	3	BOLT AS	
(EACH INCLUDES)						
M		1	6V-3918	1	BOLT (M8X1.25X50-MM)	
		1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)	

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01103508

COOLING SYSTEM

227-4299 PUMP GP-WATER

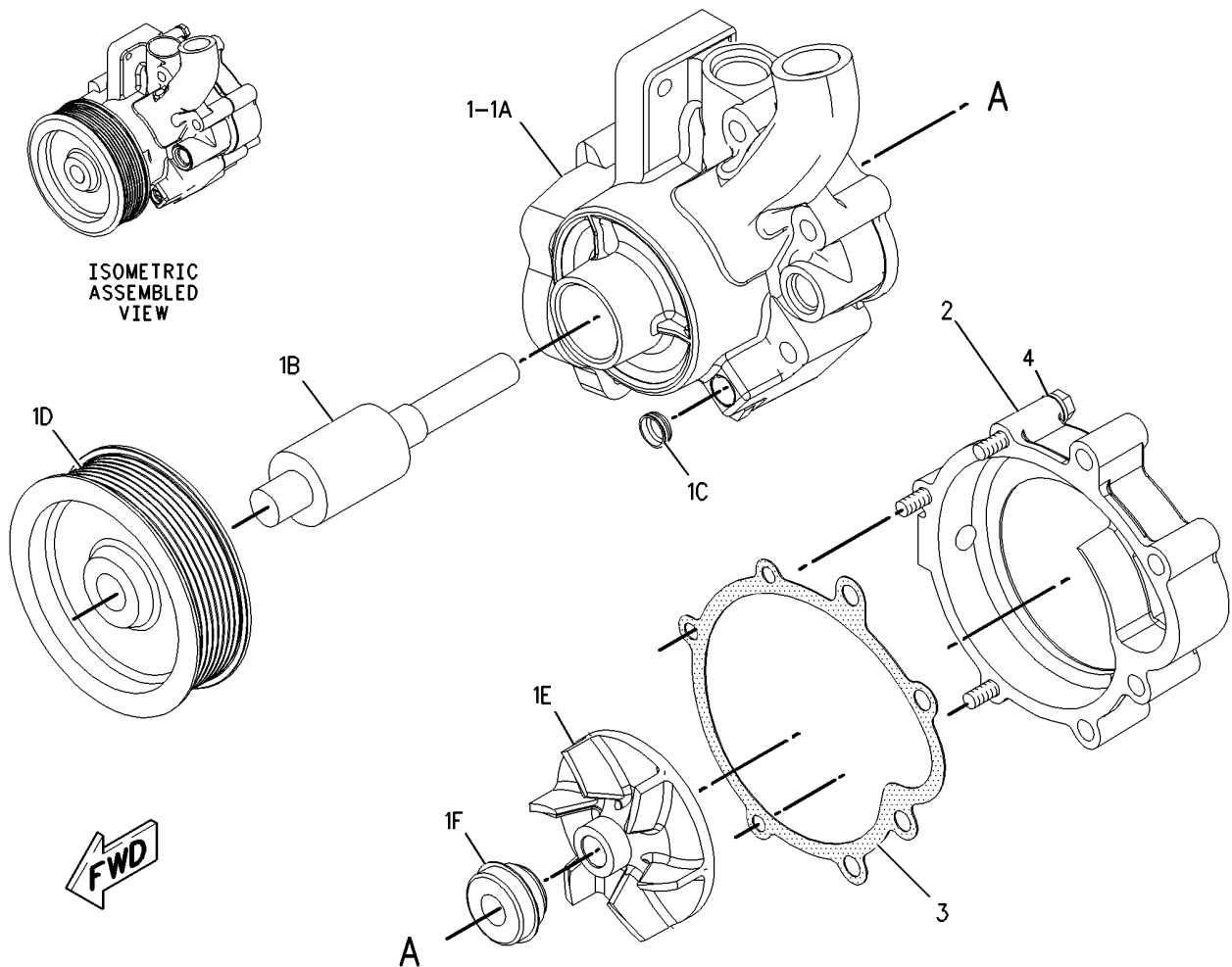
PART OF 274-9244 PUMP GP-WATER
AN ATTACHMENT

SMCS-1361

i02299455

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	227-4301	1	PUMP AS-WATER							
	1A	1	203-6093	1	HOUSING							
	1B	1	177-1052	1	SHAFT AS							
	1C	1	177-1058	1	PLUG							
	1D	1	197-9581	1	PULLEY							
	1E	1	226-6039	1	IMPELLER							
	1F	1	147-5088	1	SEAL AS-WATER PUMP							
	2	1	226-6051	1	COVER							
	3	1	197-9580	1	GASKET							
	4	1	183-2931	3	BOLT AS							
(EACH INCLUDES)												
M		1	6V-3918	1	BOLT (M8X1.25X50-MM)							
		1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)							

M-METRIC PART



GRAPHIC #1

<END>

g00949232

COOLING SYSTEM

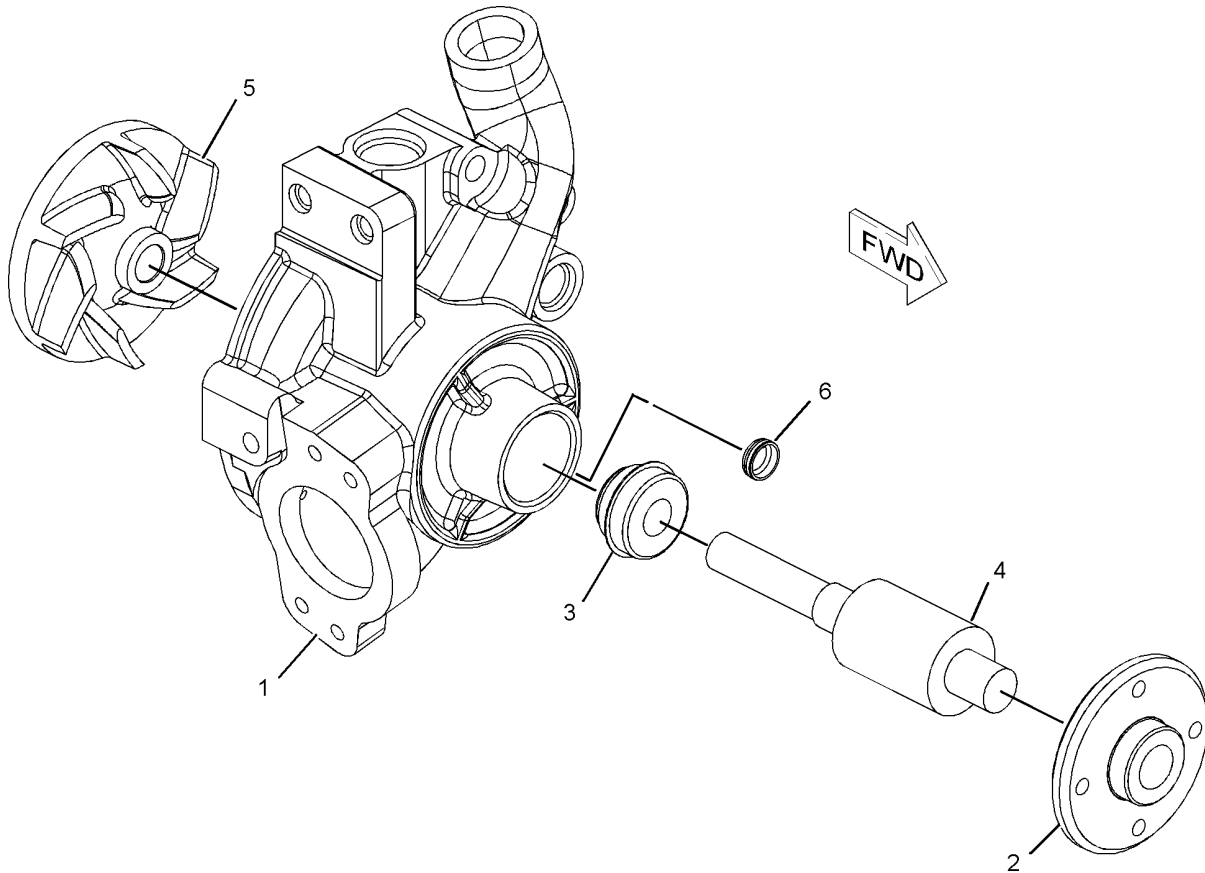
227-4300 PUMP GP-WATER

PART OF 227-4298 PUMP GP-WATER
AN ATTACHMENT

SMCS-1361

i02179476

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	203-6093	1	HOUSING						
	2	1	203-6098	1	HUB						
	3	1	147-5088	1	SEAL AS-WATER PUMP						
	4	1	177-1052	1	SHAFT AS						
	5	1	226-6039	1	IMPELLER						
	6	1	177-1058	1	PLUG						



GRAPHIC #1

<END>

g01103413

COOLING SYSTEM

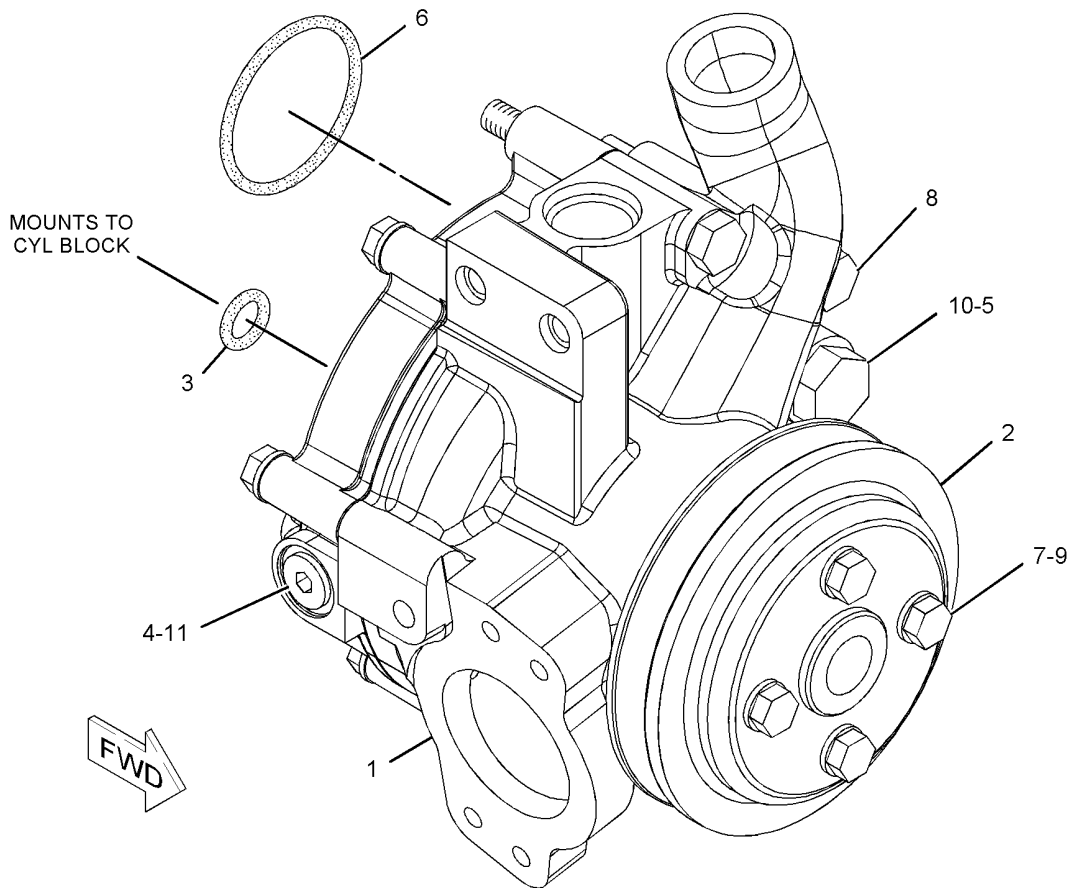
260-1546 PUMP GP-WATER AN ATTACHMENT

SMCS-1361

i02421175

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
Y	1	1	227-4298	1	PUMP GP-WATER							244
	2	1	256-6169	1	PULLEY							
	3	1	2M-4453	1	SEAL-O-RING							
	4	1	3J-1907	1	SEAL-O-RING							
	5	1	3K-0360	1	SEAL-O-RING							
	6	1	4J-0525	1	SEAL-O-RING							
M	7	1	6V-5217	4	BOLT (M8X1.25X20-MM)							
M	8	1	8T-0644	4	BOLT (M10X1.5X90-MM)							
	9	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)							
	10	1	9S-4185	1	PLUG							
	11	1	9S-8004	1	PLUG							

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01120154

COOLING SYSTEM

274-9244 PUMP GP-WATER

AN ATTACHMENT

SMCS-1361

i02540919

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	227-4299	1	PUMP GP-WATER						245
	2	1	<i>148-8407</i>	1	PLUG AS						
		1	3J-1907	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-O RING						
	3	1	2M-4453	1	SEAL-O-RING						
	4	1	3K-0360	1	SEAL-O-RING						
	5	1	4J-0525	1	SEAL-O-RING						
M	6	1	8T-0644	4	BOLT (M10X1.5X90-MM)						
	7	1	9S-4185	1	PLUG						

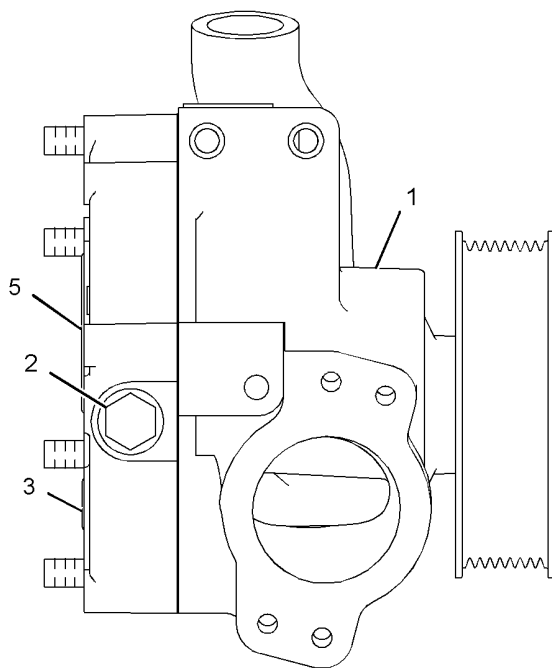
M-METRIC PART

Y-SEPARATE ILLUSTRATION

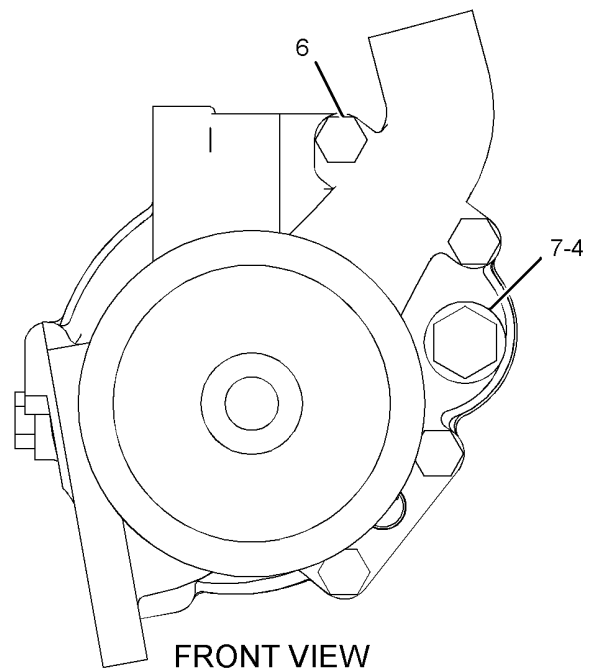
COOLING SYSTEM

274-9244 PUMP GP-WATER (contd.)

i02540919



RIGHT SIDE VIEW



FRONT VIEW

GRAPHIC #1

<END>

g01295121

COOLING SYSTEM

228-4302 RADIATOR GP

PART OF 253-7179 RADIATOR GP
AN ATTACHMENT

SMCS-1353

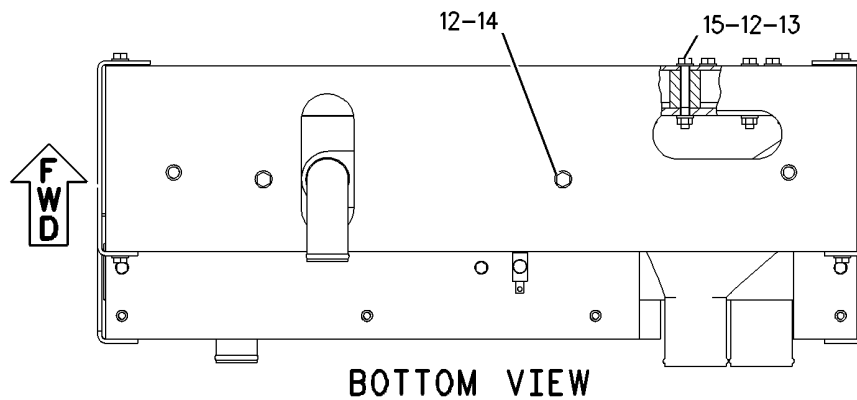
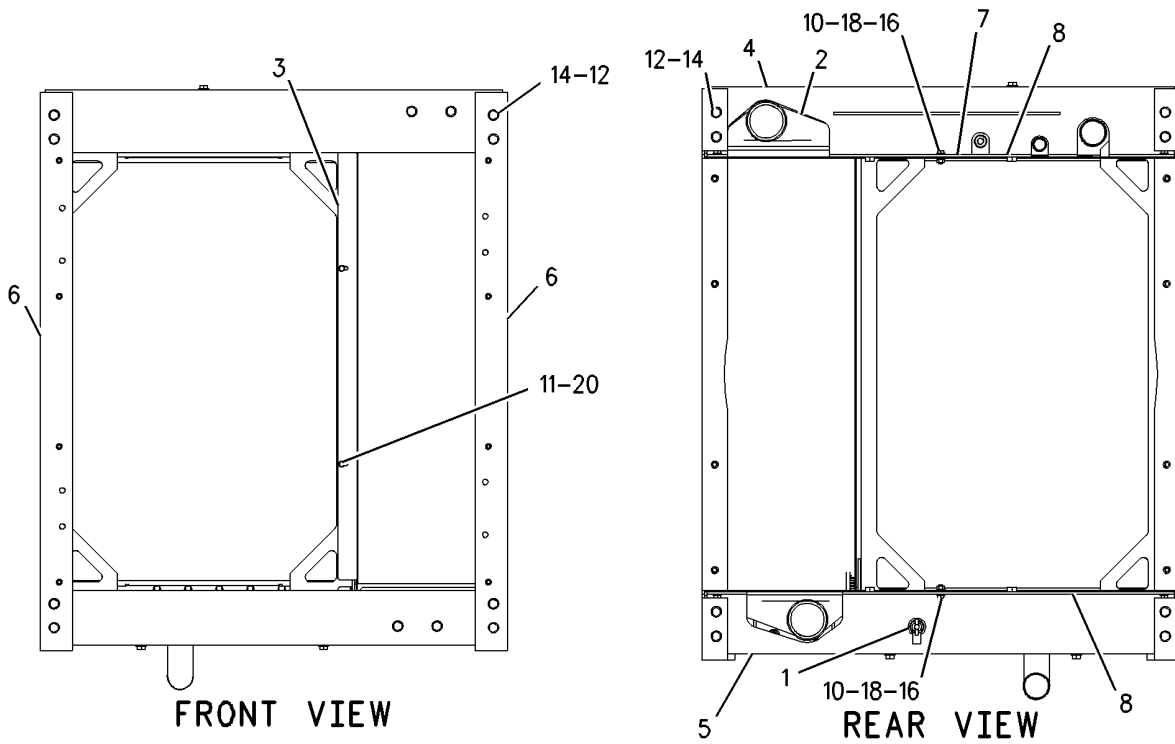
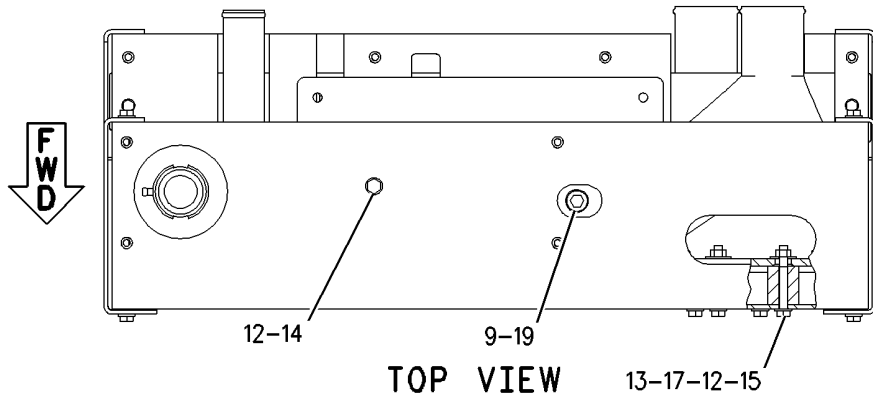
i02503955

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8F-8151	1	VALVE AS-SHUTOFF (COOLANT)						
	2	1	186-0117	1	AFTERCOOLER AS						
	3	1	204-9877	1	BAFFLE						
	4	1	228-4303	1	BRACKET AS						
M		1	8T-3490	16	NUT-WELD (M10X1.5-THD)						
	5	1	228-4304	1	BRACKET AS						
M		1	8T-3490	12	NUT-WELD (M10X1.5-THD)						
M		1	9X-6269	2	NUT-WELD (M16X2X13-MM OAL)						
	6	1	228-4305	2	CHANNEL AS						
					(EACH INCLUDES)						
M		1	8T-3490	4	NUT-WELD (M10X1.5-THD)						
M		1	8T-3612	4	NUT-WELD (M8X1.25-THD)						
	7	1	230-5006	1	CORE AS-RADIATOR						
	8	1	234-0263	2	PLATE						
	9	1	3J-7354	1	SEAL-O-RING						
M	10	1	5C-7261	6	NUT (M8X1.25-THD)						
M	11	1	5C-9553	2	BOLT (M6X1X16-MM)						
	12	1	8T-4121	25	WASHER-HARD (11X21X2.5-MM THK)						
M	13	1	8T-4133	4	NUT (M10X1.5-THD)						
M	14	1	8T-4136	19	BOLT (M10X1.5X25-MM)						
M	15	1	8T-4172	4	BOLT (M10X1.5X80-MM)						
M	16	1	8T-4189	6	BOLT (M8X1.25X20-MM)						
	17	1	8T-4222	2	WASHER-PLATED (11X32X2.5-MM THK)						
	18	1	8T-4224	12	WASHER-HARD (8.8X16X2-MM THK)						
	19	1	9S-4182	1	PLUG (STRAIGHT THREAD O-RING)						
	20	1	9X-8256	2	WASHER (6.6X12X2-MM THK)						
M-METRIC PART											

COOLING SYSTEM

228-4302 RADIATOR GP (contd.)

i02503955



GRAPHIC #1

<END>

g00990010

COOLING SYSTEM

253-7179 RADIATOR GP

AN ATTACHMENT

SMCS-1353

i02503942

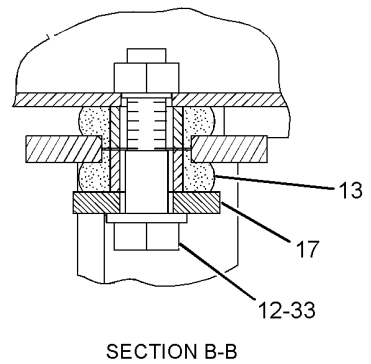
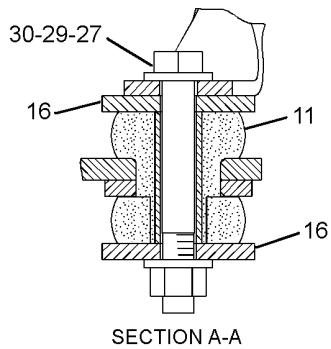
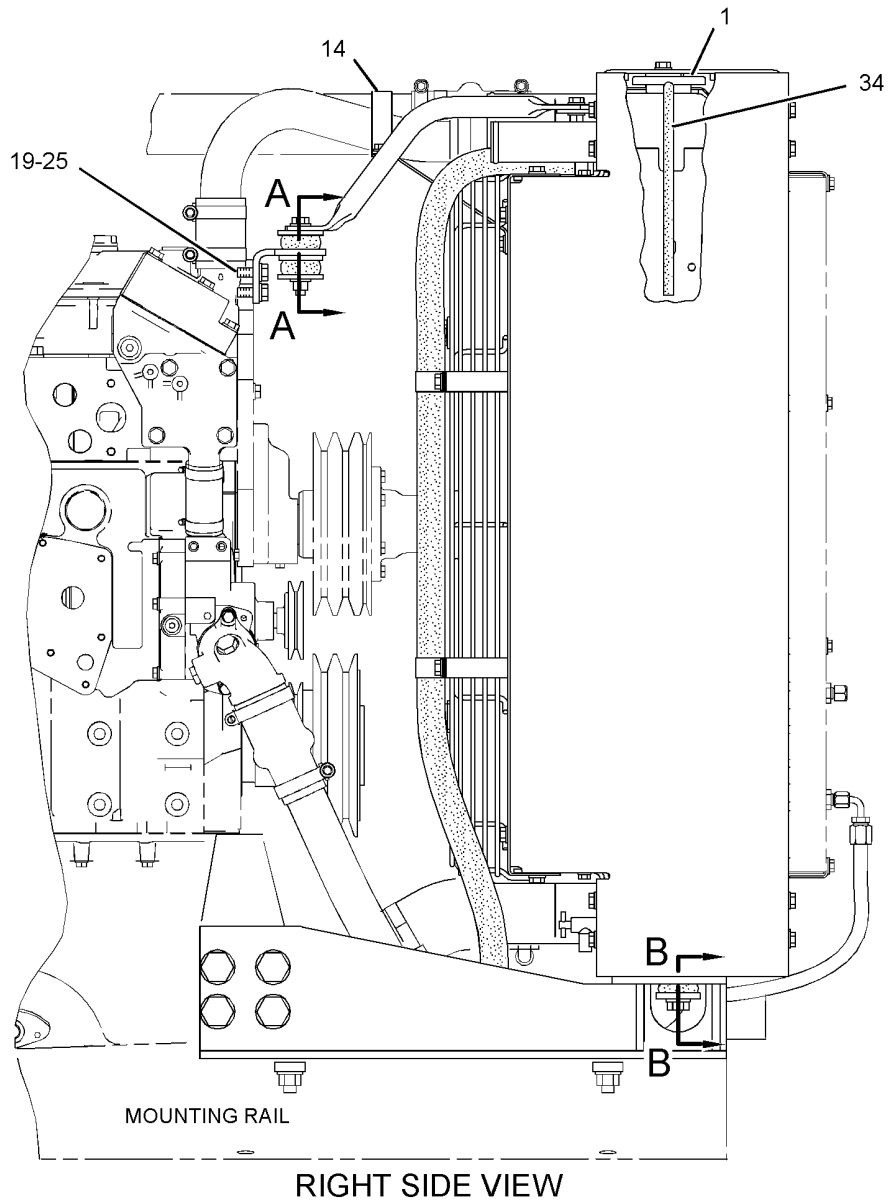
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6L-8617	1	CAP-PRESSURE (7-PSI) (RADIATOR)						
	2	2	8K-2090	2	TUBE						
	3	2	8T-4983	2	CLAMP-HOSE						
Y	4	2	228-4302	1	RADIATOR GP						250
	5	2	228-4306	2	GUARD AS-FAN						
	6	2	228-4308	1	SUPPORT AS						
	7	2	228-4309	1	SUPPORT AS						
	8	2	228-4310	2	BRACE						
	9	2	228-4337	1	BRACKET AS						
	10	2	233-0074	1	BRACKET						
	11	1	112-4159	2	MOUNTING AS						
M	12	1	118-4977	2	BOLT (M16X2X65-MM)						
	13	1	187-7331	4	MOUNT-RUBBER						
	14	1	2N-1117	1	CLIP						
	15	2	2S-2053	2	CLIP						
	16	1	7G-8839	4	SPACER (13.5X57X6-MM THK)						
	17	1	7X-0607	2	WASHER-HARD (20X55X8-MM THK)						
M	18	2	7X-2575	8	BOLT (M24X3X60-MM)						
	19	1	7X-3392	4	WASHER-HARD (13.5X22.5X3-MM THK)						
M	20	2	8T-4001	8	NUT (M24X3-THD)						
	21	2	8T-4121	28	WASHER-HARD (11X21X2.5-MM THK)						
M	22	2	8T-4133	4	NUT (M10X1.5-THD)						
M	23	2	8T-4136	16	BOLT (M10X1.5X25-MM)						
M	24	2	8T-4137	4	BOLT (M10X1.5X20-MM)						
M	25	1	8T-4139	4	BOLT (M12X1.75X30-MM)						
	26	2	8T-4167	16	WASHER-HARD (26X44X4-MM THK)						
M	27	1	8T-4176	2	BOLT (M12X1.75X90-MM)						
M	28	2	8T-4195	2	BOLT (M10X1.5X30-MM)						
	29	1	8T-4223	4	WASHER-HARD (13.5X25.5X3-MM THK)						
M	30	1	8T-4244	2	NUT (M12X1.75-THD)						
M	31	2	8T-6685	2	BOLT (M10X1.5X110-MM)						
	32	2	8T-6765	1	PLUG-PIPE						
	33	1	9X-8257	2	WASHER (17.5X30X3.5-MM THK)						
D	34	1	5P-5991		HOSE (3-M)						
E	35	2	5P-1251		HOSE (138-CM)						

D-ORDER BY THE METER
 E-ORDER BY THE CENTIMETER
 M-METRIC PART
 Y-SEPARATE ILLUSTRATION

COOLING SYSTEM

253-7179 RADIATOR GP (contd.)

i02503942



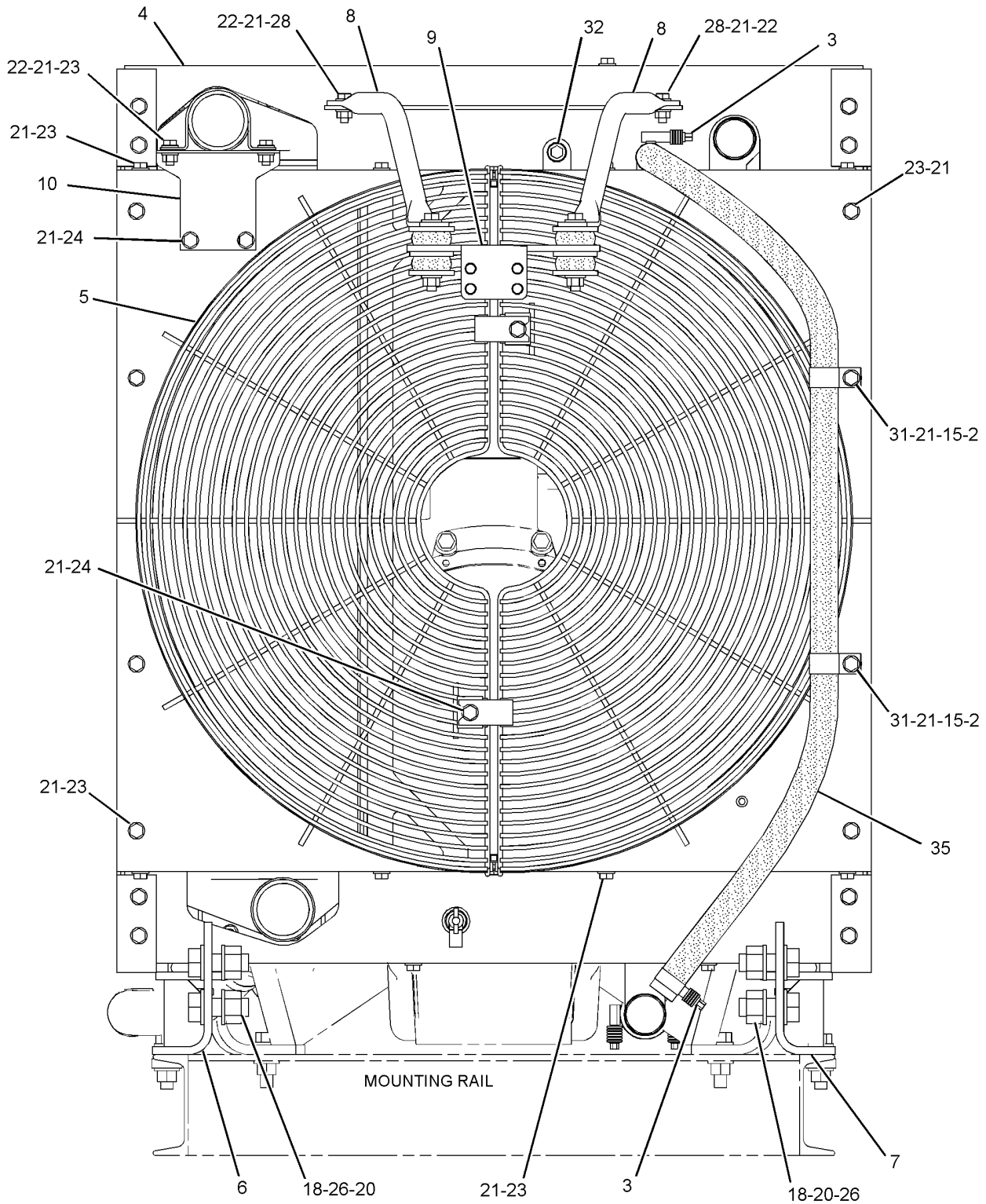
GRAPHIC #1

g01252273

COOLING SYSTEM

253-7179 RADIATOR GP (contd.)

i02503942



REAR VIEW

<END>

GRAPHIC #2

g01252354

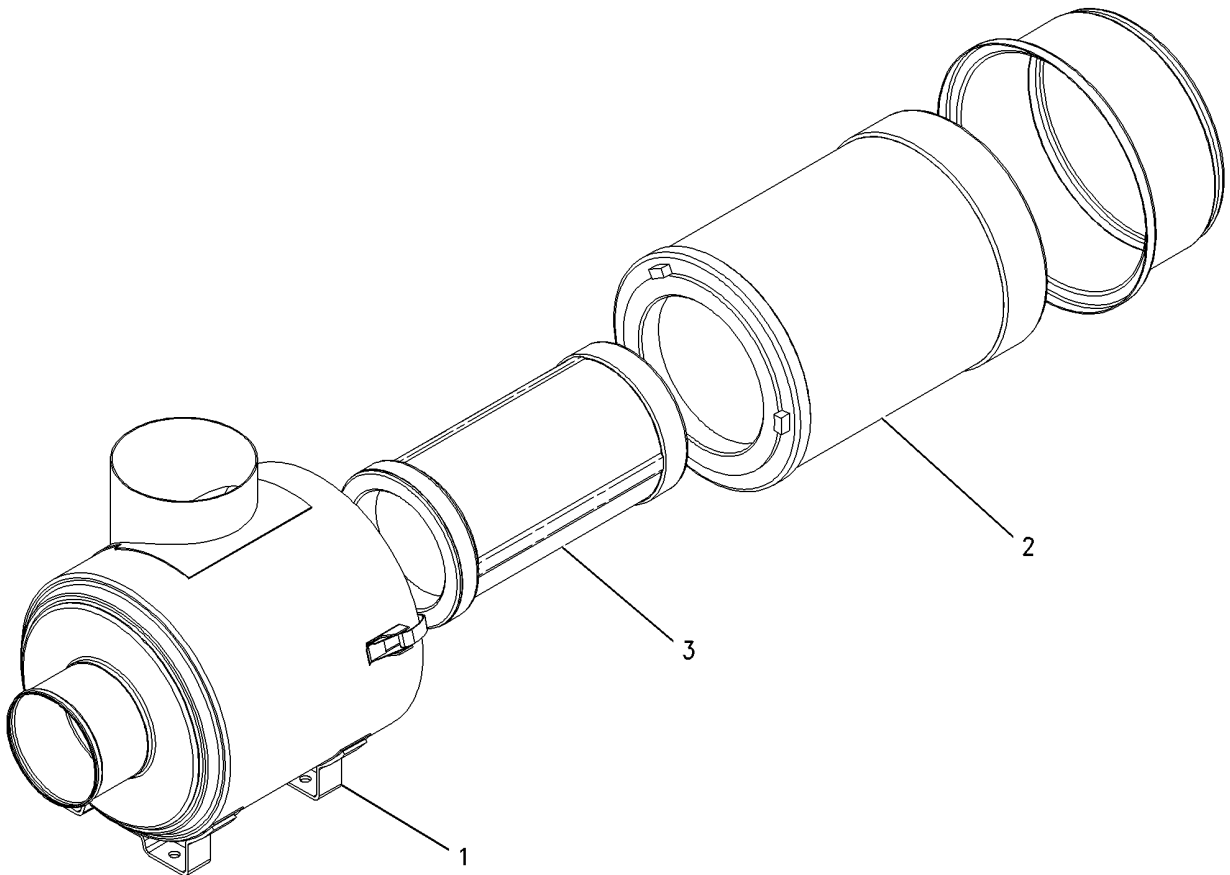
AIR INLET AND EXHAUST SYSTEM

159-8563 AIR CLEANER GP PART OF 192-2072, 231-5203 AIR CLEANER GP AN ATTACHMENT

SMCS-1051, 1054

i02373048

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE
						PAGE
	1	1	6I-4467	1	COVER AS-AIR CLEANER	
		1	101-2850	1	FILM-INFORMATION (AIR CLEANER)	
	2	1	132-7167	1	ELEMENT AS-PRIMARY (AIR CLEANER)	
	3	1	6I-2510	1	FILTER ELEMENT AS-AIR (SECONDARY) (AIR CLEANER)	



GRAPHIC #1

<END>

g00755460

AIR INLET AND EXHAUST SYSTEM

192-2072 AIR CLEANER GP

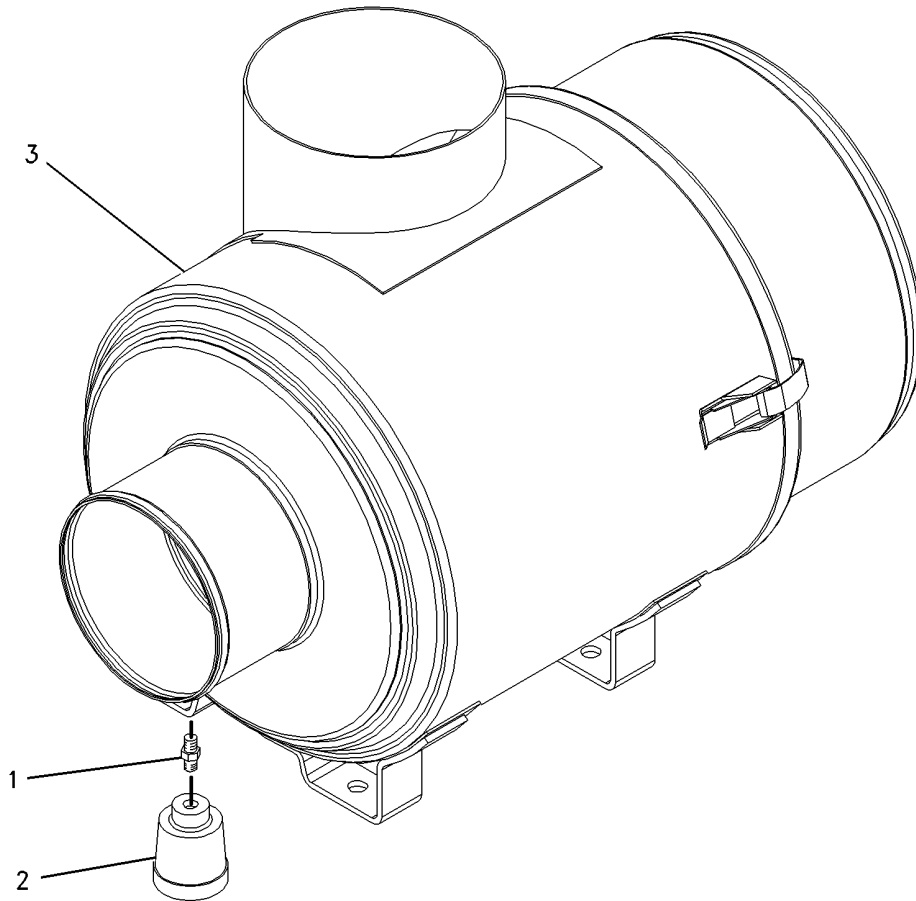
AN ATTACHMENT

SMCS-1051, 1054

i02343563

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5L-3233	1	FITTING						
	2	1	8N-2694	1	INDICATOR GP-AIR FILTER CHANGE						
Y	3	1	159-8563	1	AIR CLEANER GP						255

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00817790

AIR INLET AND EXHAUST SYSTEM

231-5203 AIR CLEANER GP CANNOT BE USED WITH 215-1818-PAGE 108 AN ATTACHMENT

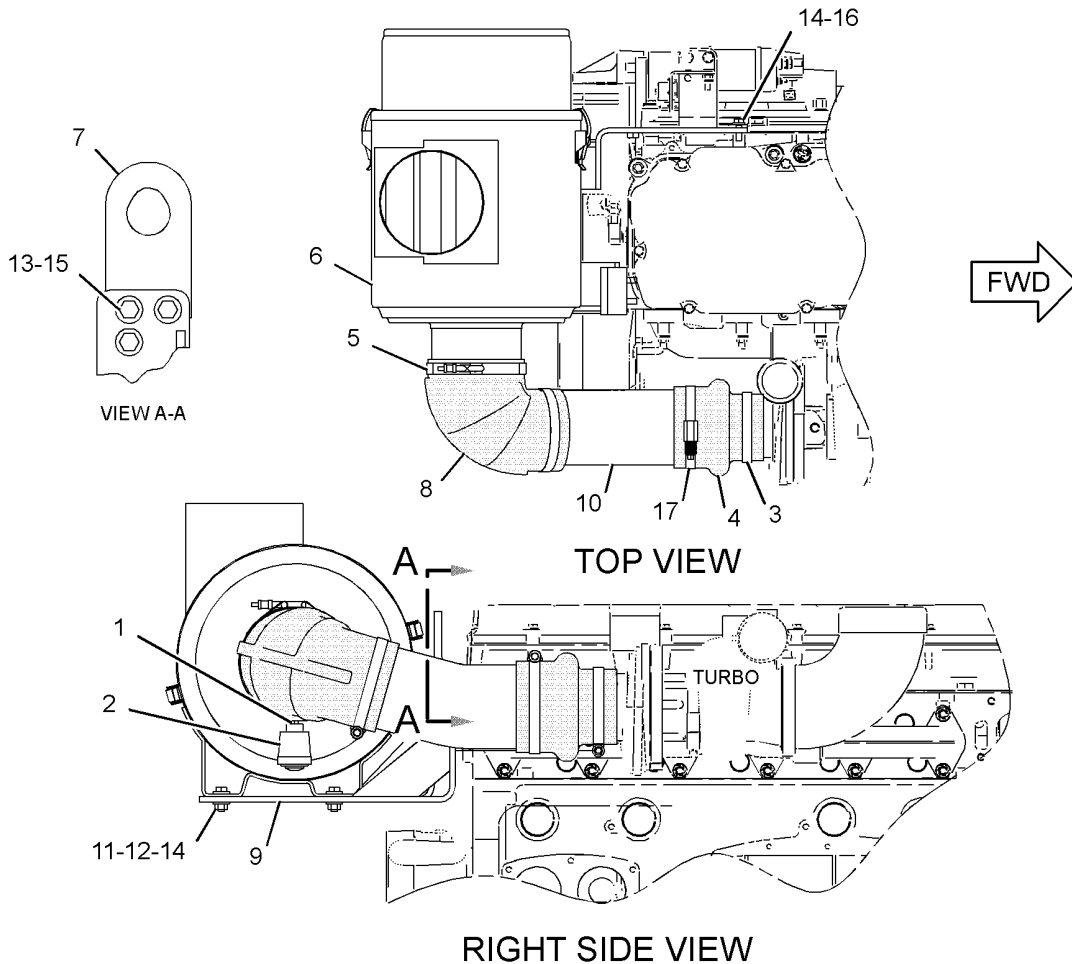
SMCS-1051, 1054

i02549636

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5L-3233	1	FITTING						
	2	1	8N-2694	1	INDICATOR GP-AIR FILTER CHANGE (AIR CLEANER)						
	3	1	8T-4986	1	CLAMP-HOSE						
	4	1	067-3676	1	REDUCER						
	5	1	135-6261	1	CLAMP						
Y	6	1	159-8563	1	AIR CLEANER GP						255
	7	1	166-1785	1	PLATE-LIFTING						
	8	1	178-9410	1	HOSE-ELBOW						
	9	1	231-5204	1	BRACKET AS						
	10	1	231-5216	1	TUBE						
M	11	1	8T-4133	4	NUT (M10X1.5-THD)						
	12	1	7X-7729	8	WASHER (11X25X3-MM THK)						
	13	1	8T-4223	3	WASHER-HARD (13.5X25.5X3-MM THK)						
M	14	1	8T-4195	6	BOLT (M10X1.5X30-MM)						
M	15	1	8T-4183	3	BOLT (M12X1.75X40-MM)						
	16	1	7X-0589	2	WASHER-HARD (12X28.5X5-MM THK)						
	17	1	8T-4987	2	CLAMP-HOSE						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01254190

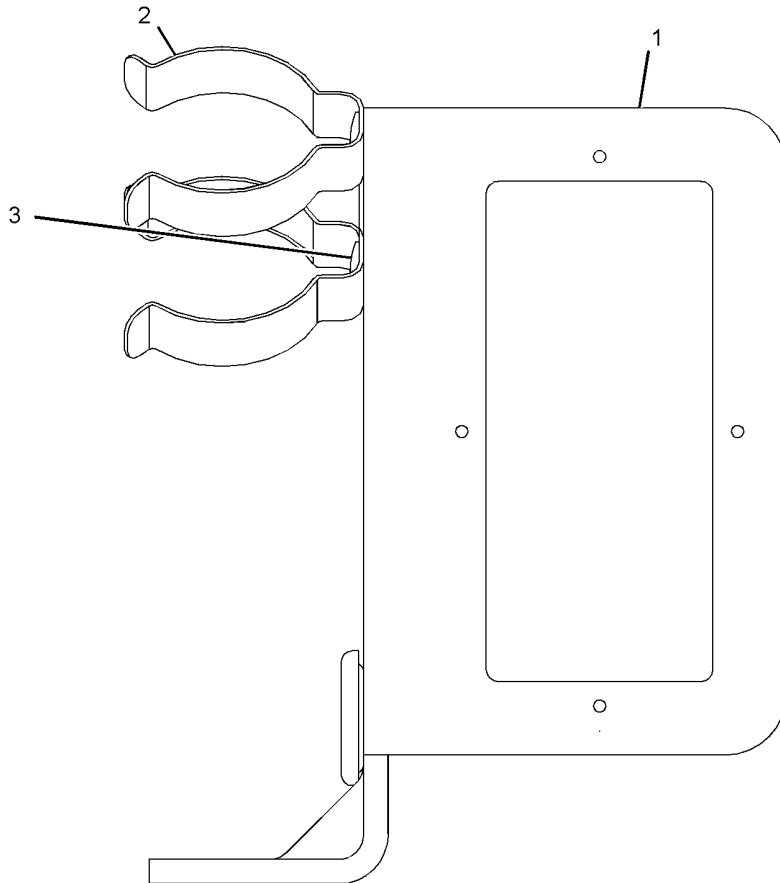
AIR INLET AND EXHAUST SYSTEM

131-5526 BRACKET AS-ECM HARNESS PART OF 281-9194 WIRING GP-ELECTRONIC CONTROL AN ATTACHMENT

SMCS-1052

i02499884

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	110-8213	1	BRACKET AS						
	2	1	7C-2644	1	CLIP						
	3	1	8C-3334	2	RIVET-TUBULAR						



GRAPHIC #1

<END>

g01164791

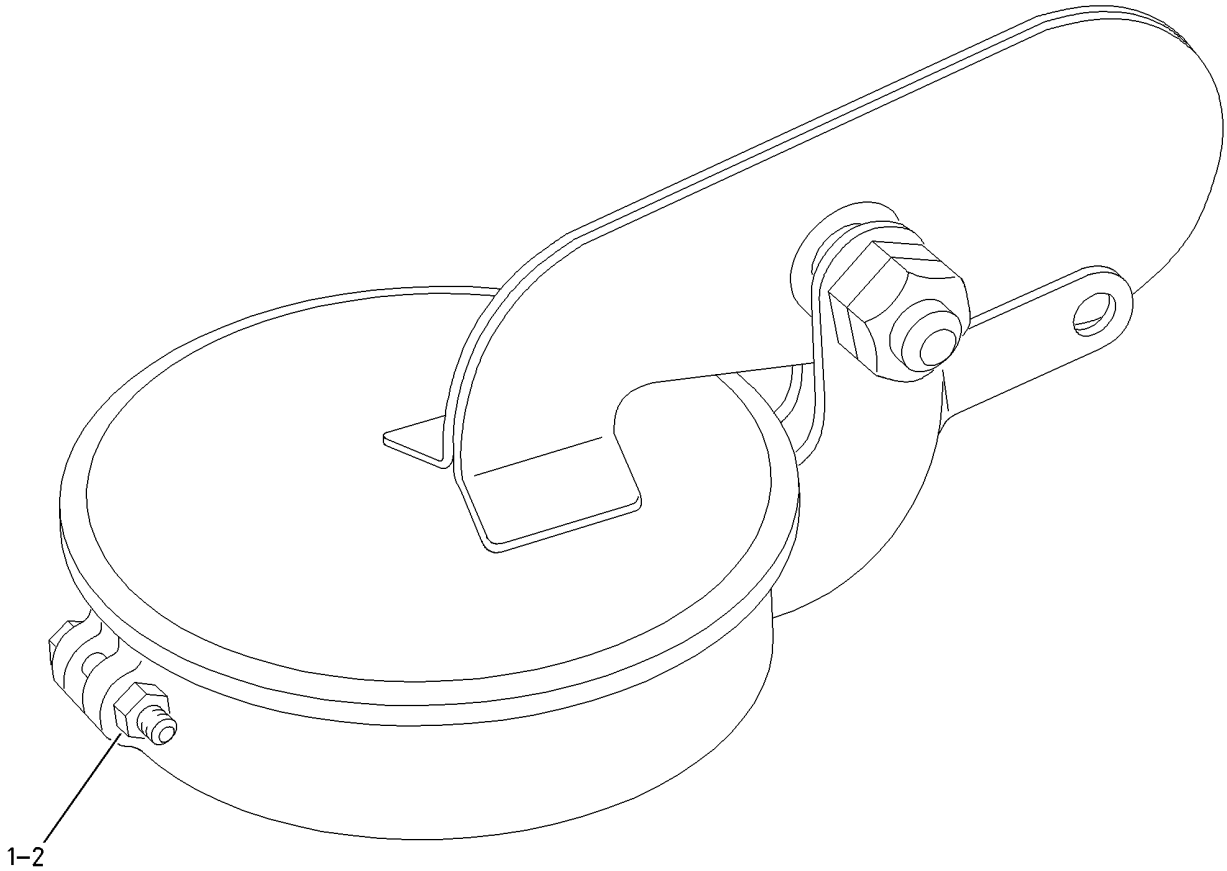
AIR INLET AND EXHAUST SYSTEM

9S-7148 CAP AS-RAIN 5 INCH. EXHAUST AN ATTACHMENT

SMCS-1072

i01689430

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1B-2713	1	BOLT (1/4-20X1.75-IN)						
	2	1	9S-8750	1	NUT-FULL (1/4-20-THD)						



GRAPHIC #1

<END>

g00791291

AIR INLET AND EXHAUST SYSTEM

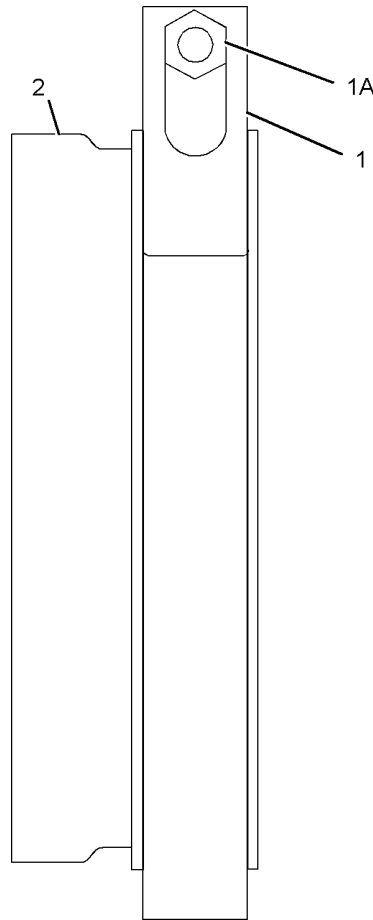
4W-9183 CONNECTION GP-EXHAUST

AN ATTACHMENT

SMCS-1061

i02178673

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-9160	1	CLAMP-V BAND						
	1A	1	8T-0122	1	NUT-FULL (1/4-28-THD)						
	2	1	9N-1940	1	ADAPTER-EXHAUST PIPE						
F			6K-0806	1	STRAP-CABLE						
F - NOT SHOWN											



<END>

GRAPHIC #1

g01103240

AIR INLET AND EXHAUST SYSTEM

230-2542 DUST EJECTOR GP

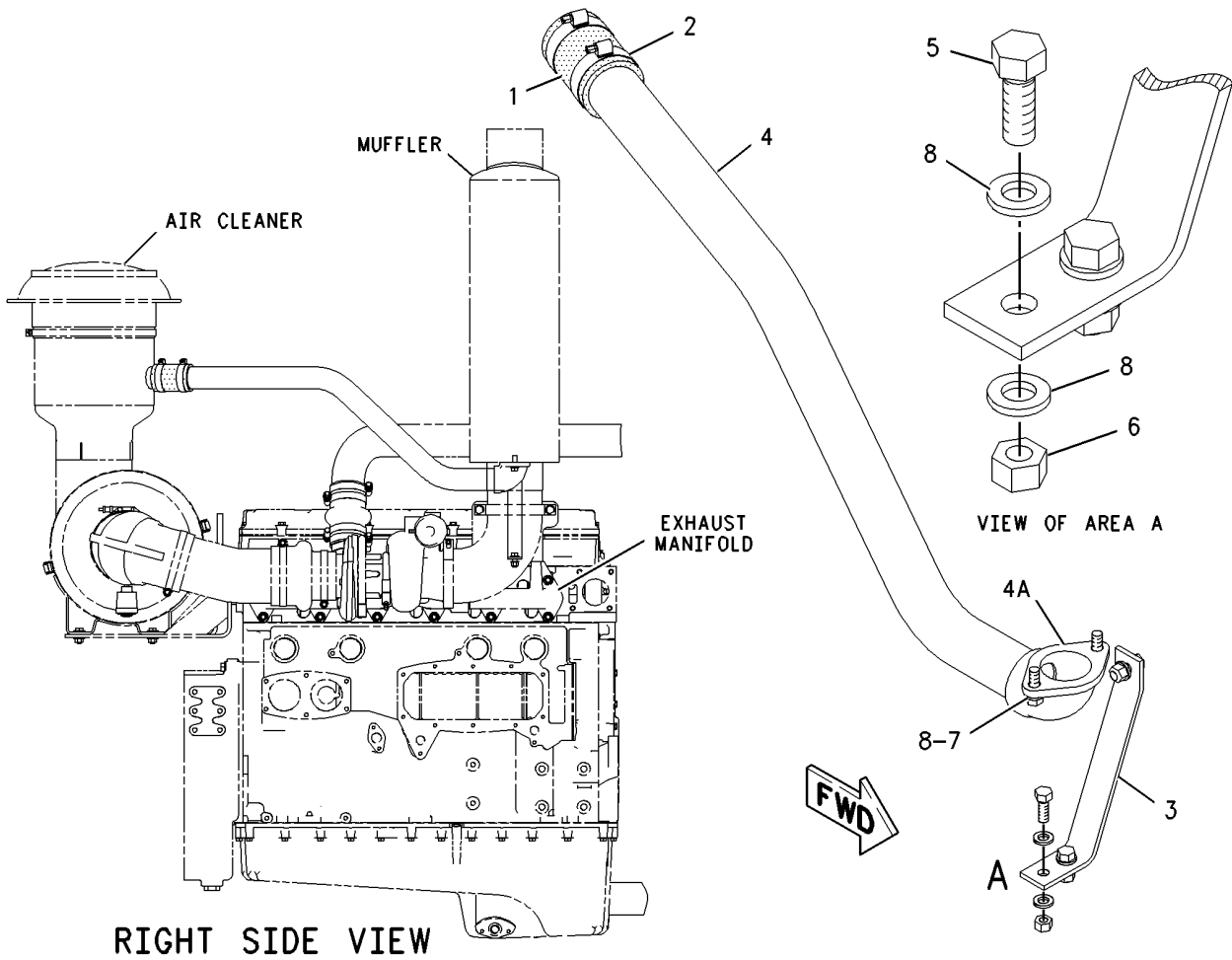
AN ATTACHMENT

SMCS-1068

i02504760

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
E	1	1	5P-1259		HOSE (9-CM)						
	2	1	5P-0597	2	CLAMP-HOSE						
	3	1	212-6041	1	BRACKET						
	4	1	229-2029	1	TUBE AS						
	4A	1	6F-3214	1	ELBOW						
	5	1	4L-6454	3	BOLT (3/8-16X1-IN)						
	6	1	6V-8801	3	NUT (3/8-16-THD)						
	7	1	8T-2502	2	BOLT (3/8-16X1.125-IN)						
8	1	8T-4896	8	WASHER-HARD (10.2X18.5X2.5-MM THK)							

E-ORDER BY THE CENTIMETER



RIGHT SIDE VIEW

VIEW OF AREA A

GRAPHIC #1

<END>

g00989304

AIR INLET AND EXHAUST SYSTEM

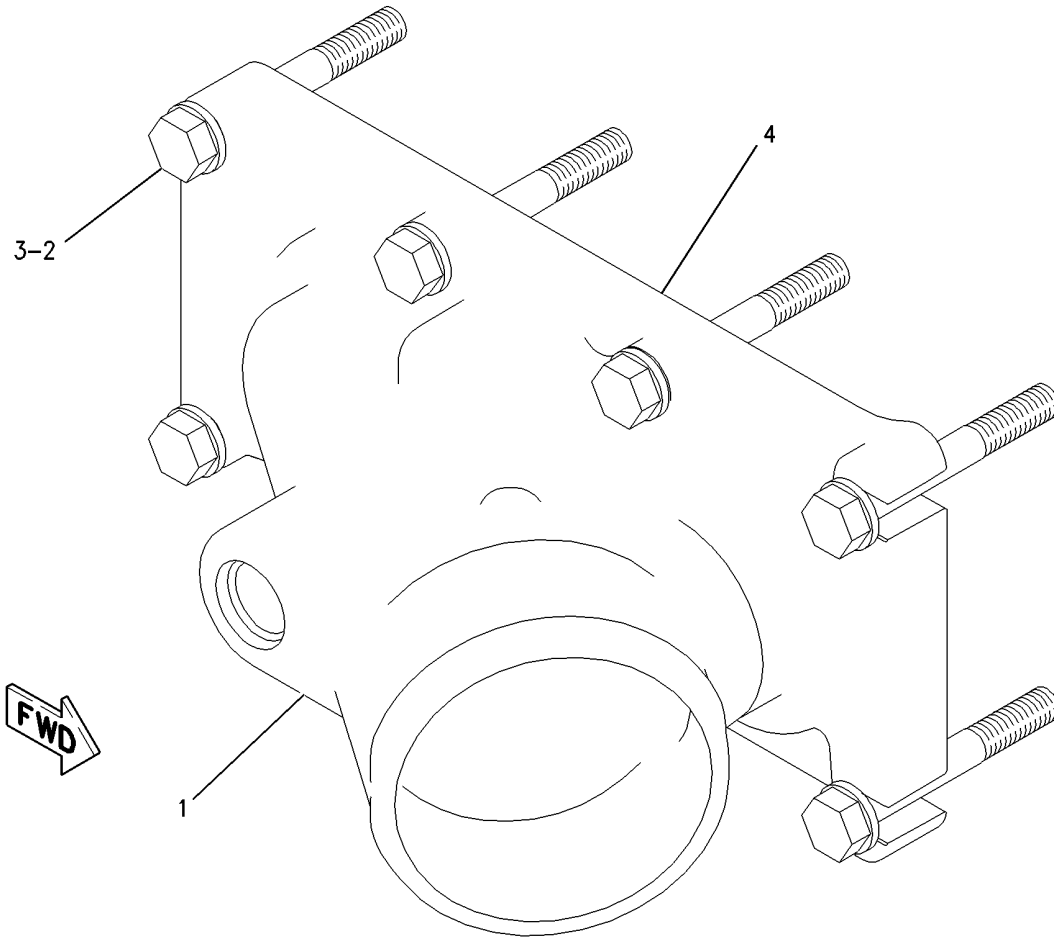
165-4464 ELBOW GP-AIR INLET AN ATTACHMENT

SMCS-1087

i02293197

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-4011	1	ELBOW						
M	2	1	8T-0100	8	BOLT (M8X1.25X60-MM)						
	3	1	9M-1974	8	WASHER-HARD (8.8X16X2-MM THK)						
B	4	1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00888687

AIR INLET AND EXHAUST SYSTEM

173-6107 ELBOW GP-AIR INLET

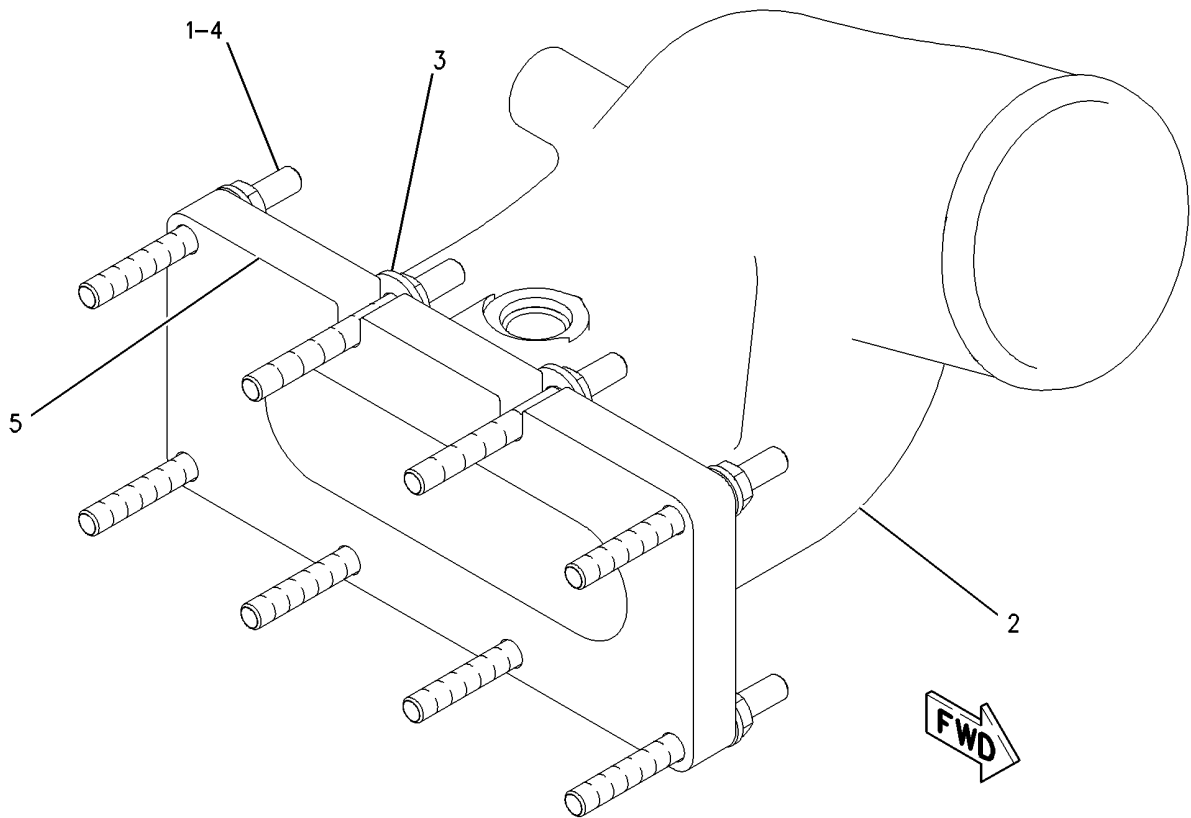
AN ATTACHMENT

SMCS-1087

i02550875

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	131-0353	8	STUD (M8X1.25X60-MM)						
	2	1	187-3971	1	ELBOW						
	3	1	3E-4352	2	WASHER-HARD (8.8X20.5X2.5-MM THK)						
	4	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)						
B	5	1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00758007

AIR INLET AND EXHAUST SYSTEM

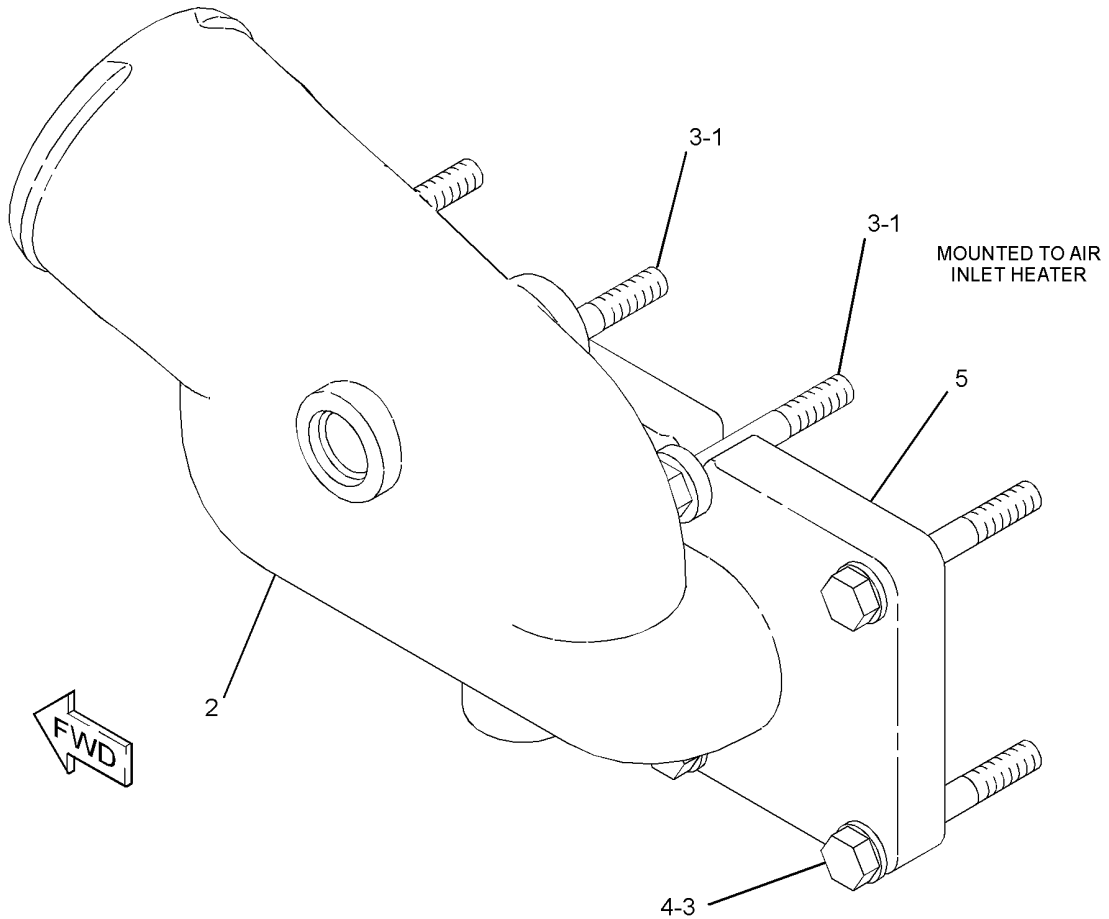
203-1193 ELBOW GP-AIR INLET AN ATTACHMENT

SMCS-1087

i02295077

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7S-6369	2	WASHER (0.344X0.75X0.188-IN THK)						
	2	1	201-9765	1	ELBOW						
M	3	1	8T-0100	8	BOLT (M8X1.25X60-MM)						
	4	1	9M-1974	6	WASHER-HARD (8.8X16X2-MM THK)						
B	5	1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g01149560

AIR INLET AND EXHAUST SYSTEM

206-7400 ELBOW GP-AIR INLET

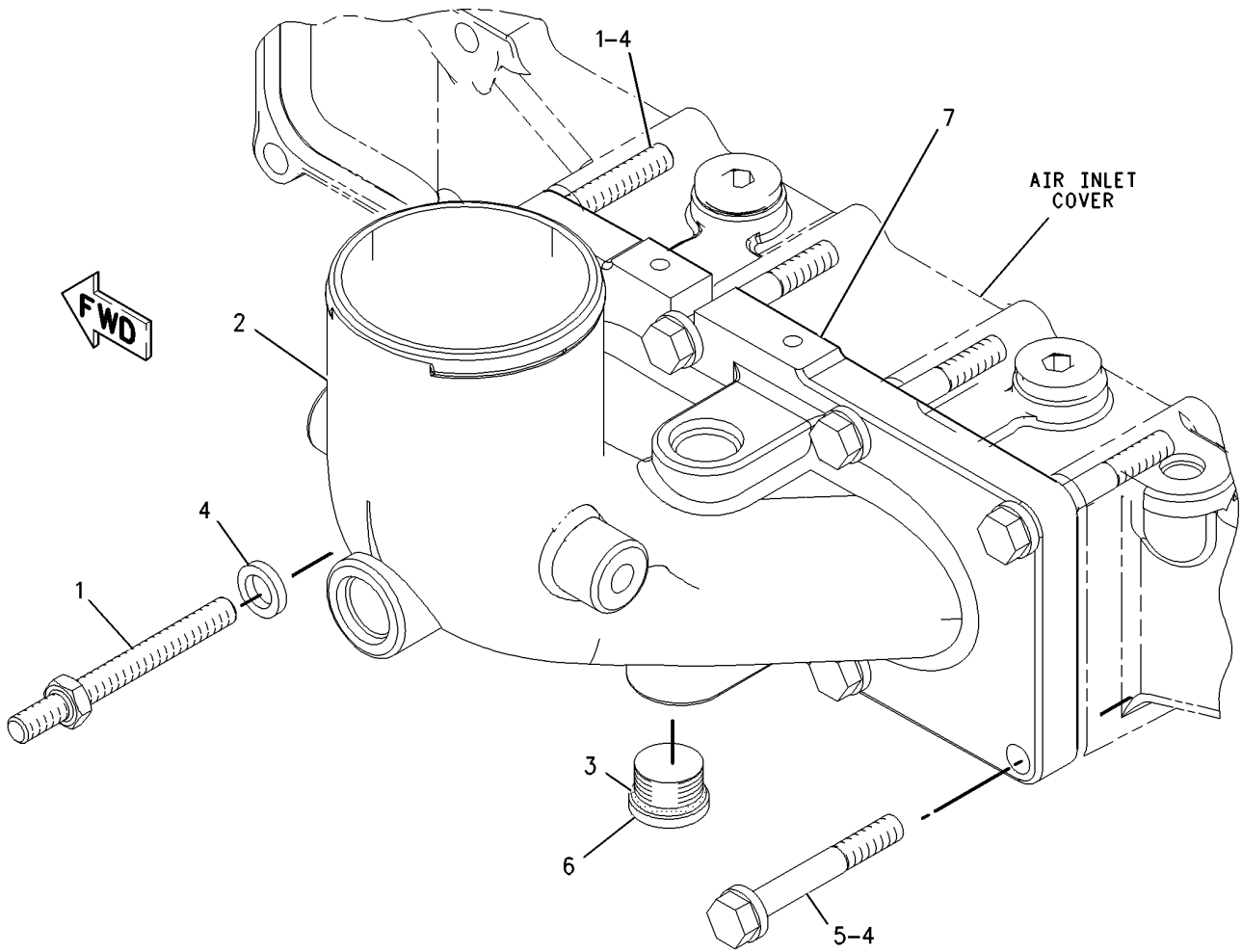
AN ATTACHMENT

SMCS-1087

i02597422

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	131-0353	2	STUD (M8X1.25X60-MM)						
	2	1	223-2278	1	ELBOW						
	3	1	3K-0360	1	SEAL-O-RING						
	4	1	8M-3175	8	WASHER-HARD (10.2X16X3-MM THK)						
M	5	1	8T-0100	6	BOLT (M8X1.25X60-MM)						
	6	1	9S-8005	1	PLUG-O RING						
B	7	1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00995453

AIR INLET AND EXHAUST SYSTEM

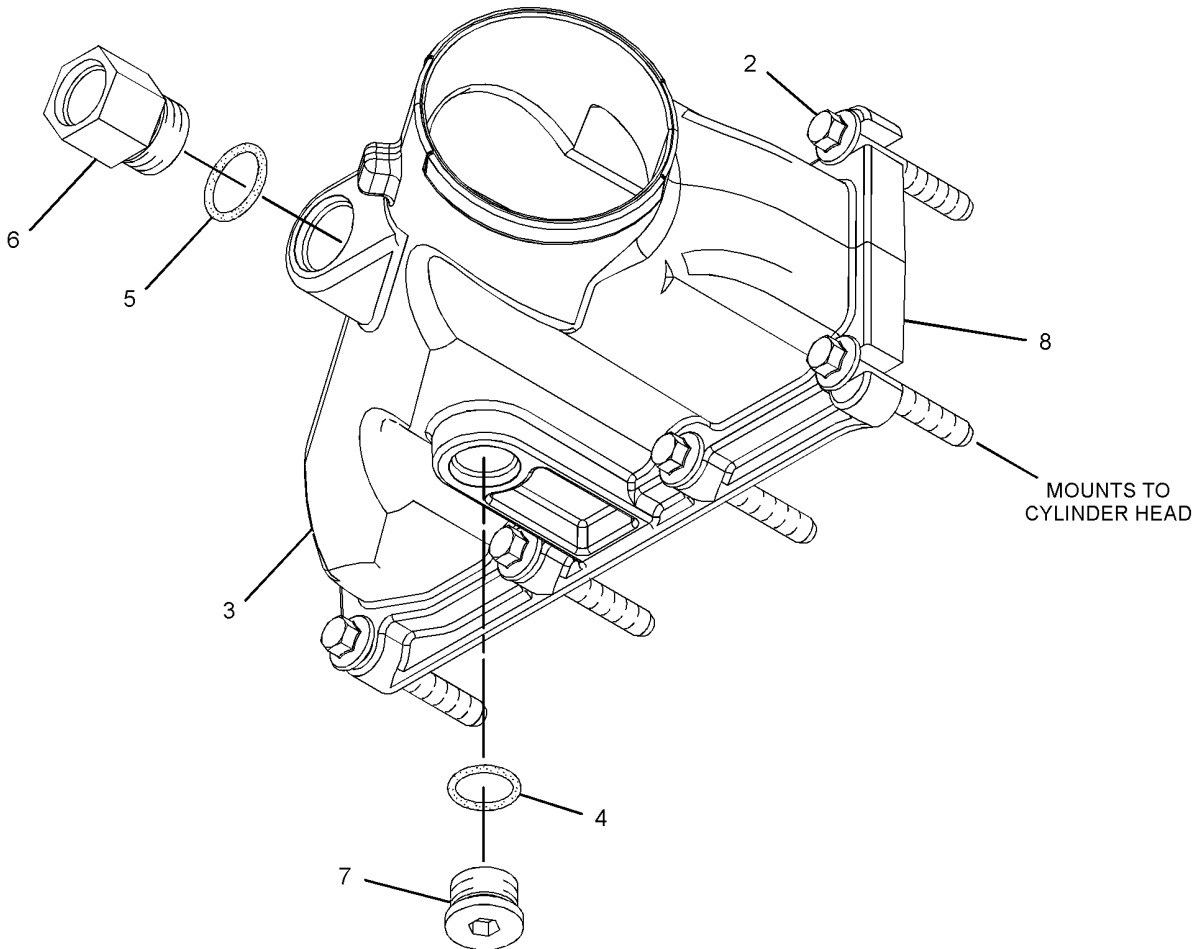
233-0079 ELBOW GP-AIR INLET AN ATTACHMENT

SMCS-1087

i02504610

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	208-9287	8	BOLT-FLANGE HEAD (M8X1.25X50-MM)						
	3	1	221-6809	1	ELBOW						
	4	1	3K-0360	1	SEAL-O-RING						
	5	1	6V-4589	1	SEAL-O-RING						
	6	1	6V-7420	1	ADAPTER (STRAIGHT THREAD O-RING)						
	7	1	9S-8005	1	PLUG-O RING						
B	8	1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED



GRAPHIC #1

<END>

g01293108

AIR INLET AND EXHAUST SYSTEM

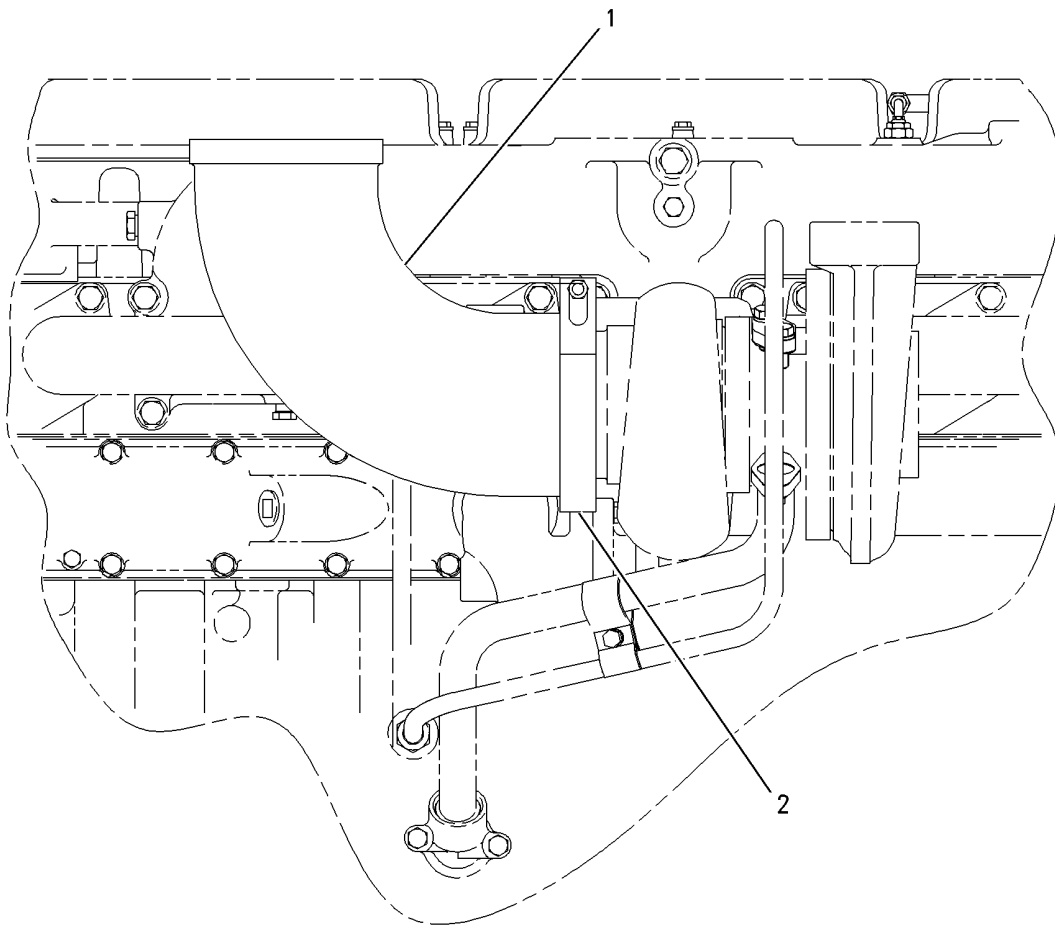
155-8536 ELBOW GP-EXHAUST

AN ATTACHMENT

SMCS-1061

i02476294

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	155-8538	1	ELBOW-EXHAUST						
	2	1	4W-9160	1	CLAMP-V BAND						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00831728

AIR INLET AND EXHAUST SYSTEM

212-6032 ELBOW GP-EXHAUST

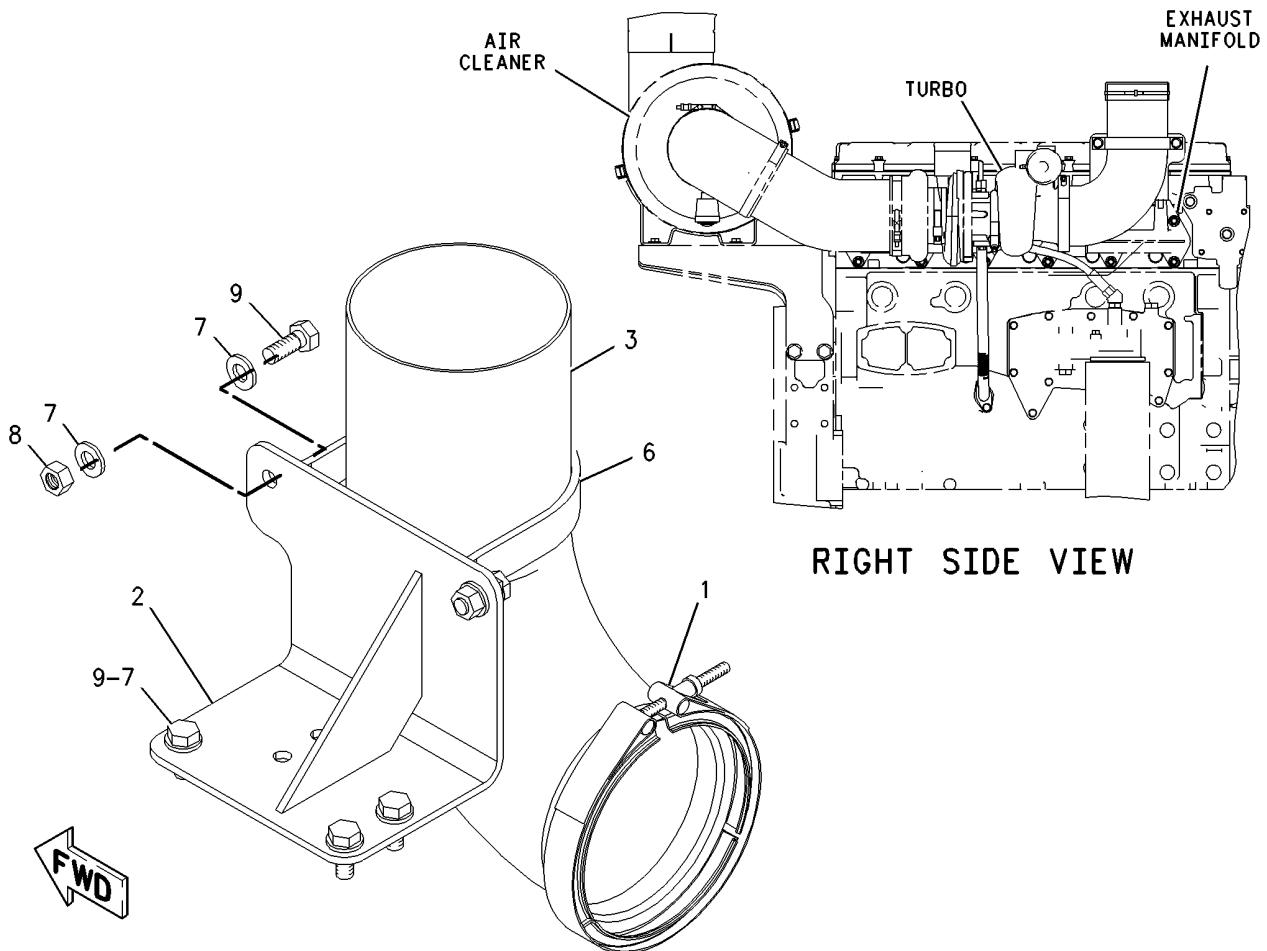
AN ATTACHMENT

SMCS-1061

i02550936

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4W-9160	1	CLAMP-V BAND						
	2	1	212-6030	1	SUPPORT AS						
	3	1	212-6031	1	ELBOW-EXHAUST						
	6	1	7L-8256	1	CLAMP-TUBE						
	7	1	8T-4121	7	WASHER-HARD (11X21X2.5-MM THK)						
M	8	1	8T-4133	2	NUT (M10X1.5-THD)						
M	9	1	8T-4136	5	BOLT (M10X1.5X25-MM)						

M-METRIC PART



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00870026

AIR INLET AND EXHAUST SYSTEM

116-5399 KIT-EXHAUST PARTS

AN ATTACHMENT

SMCS-1061

i02302700

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	4W-9160	1	CLAMP-V BAND (V-BAND)						
<END>									

184-5367 LINES GP-AIR-AFTERCOOLER

AN ATTACHMENT

SMCS-1071

i02550885

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	9X-2201	4	CLAMP-HOSE						
	7E-8630	1	HOSE-AIR INLET						
<END>									

AIR INLET AND EXHAUST SYSTEM

228-4320 LINES GP-AIR

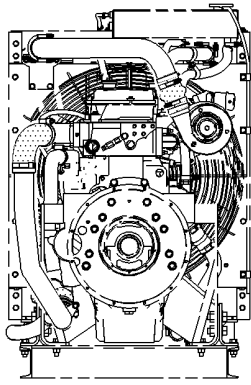
AN ATTACHMENT

SMCS-1071

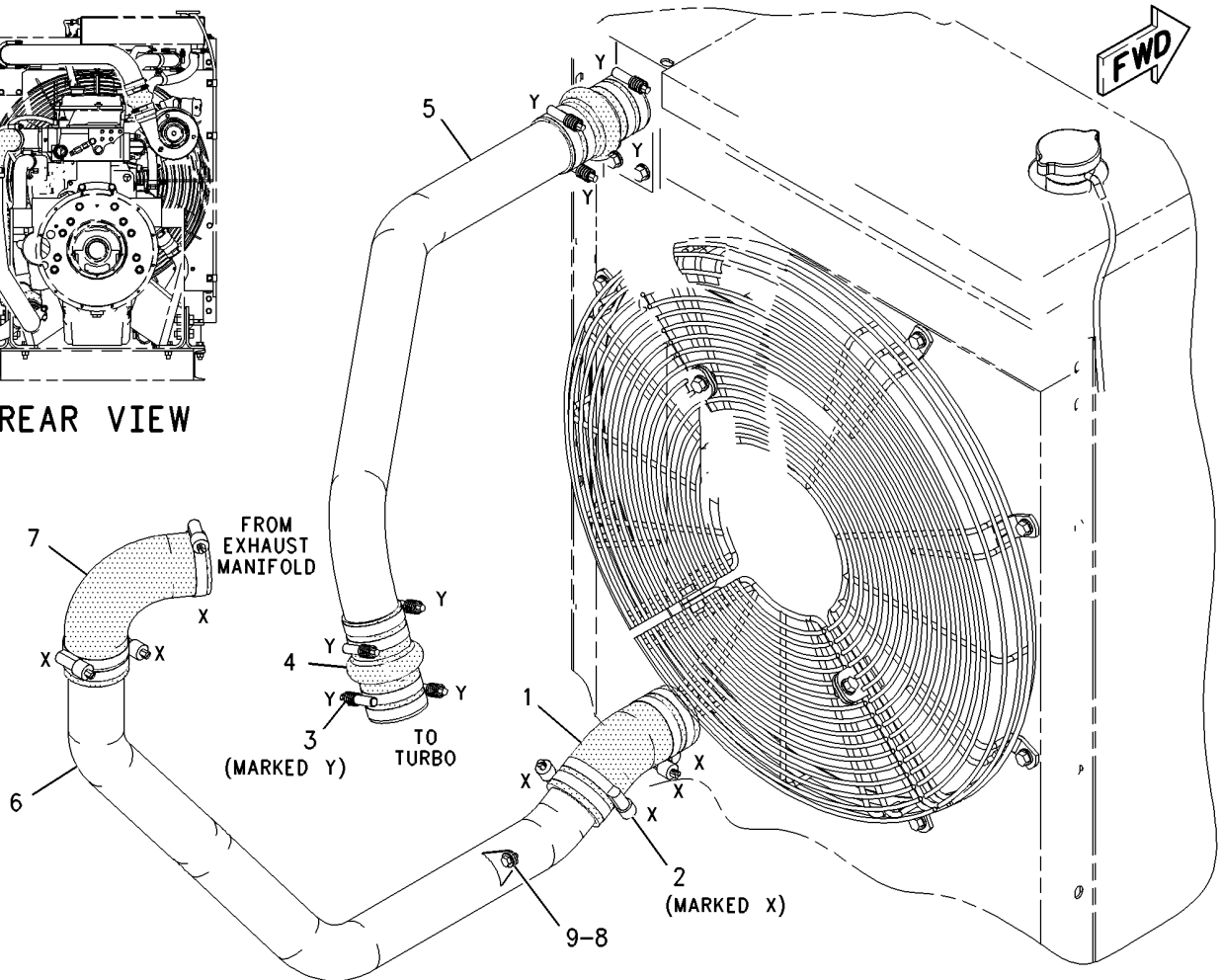
i02509972

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7Y-1182	1	HOSE						
	2	1	8T-4985	7	CLAMP-HOSE						
	3	1	144-0367	8	CLAMP-HOSE						
	4	1	177-0581	2	HOSE						
	5	1	228-4323	1	TUBE						
	6	1	228-4324	1	TUBE						
	7	1	228-4338	1	HOSE						
	8	1	5P-4116	1	WASHER-HARD (8.8X20.5X2-MM THK)						
M	9	1	8T-4200	1	BOLT (M8X1.25X16-MM)						

M-METRIC PART



REAR VIEW



GRAPHIC #1

<END>

g00986313

AIR INLET AND EXHAUST SYSTEM

228-4326 LINES GP-AIR

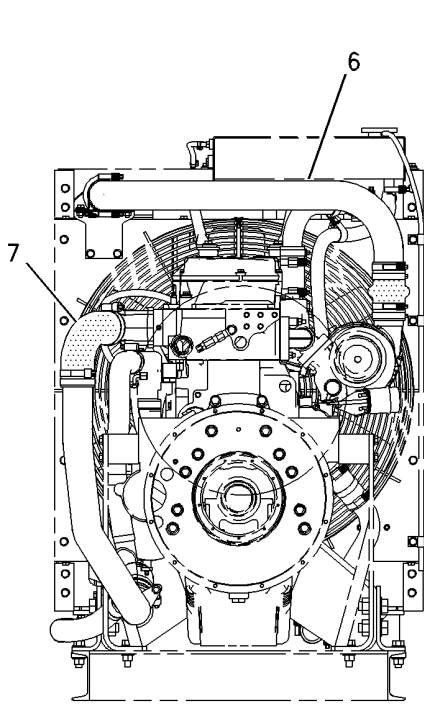
AN ATTACHMENT

SMCS-1071

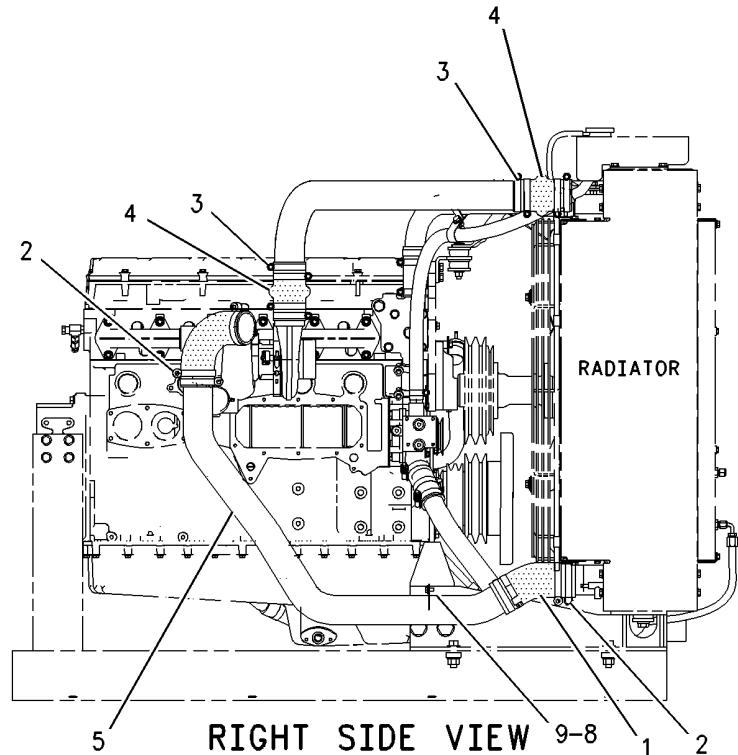
i02509973

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7Y-1182	1	HOSE						
	2	1	8T-4985	7	CLAMP-HOSE						
	3	1	144-0367	8	CLAMP-HOSE						
	4	1	177-0581	2	HOSE						
	5	1	228-4324	1	TUBE						
	6	1	228-4328	1	TUBE						
	7	1	228-4338	1	HOSE						
	8	1	5P-4116	1	WASHER-HARD (8.8X20.5X2-MM THK)						
M	9	1	8T-4200	1	BOLT (M8X1.25X16-MM)						

M-METRIC PART



REAR VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00986355

AIR INLET AND EXHAUST SYSTEM

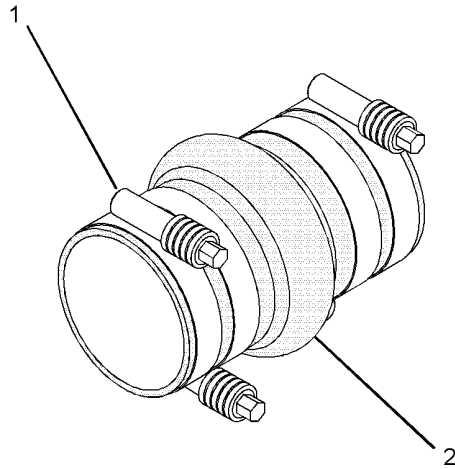
269-2206 LINES GP-AIR

AN ATTACHMENT

SMCS-1071

i02509662

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	144-0367	4	CLAMP-HOSE						
	2	1	177-0581	1	HOSE						



GRAPHIC #1

<END>

g01167021

AIR INLET AND EXHAUST SYSTEM

171-4687 MANIFOLD GP-EXHAUST

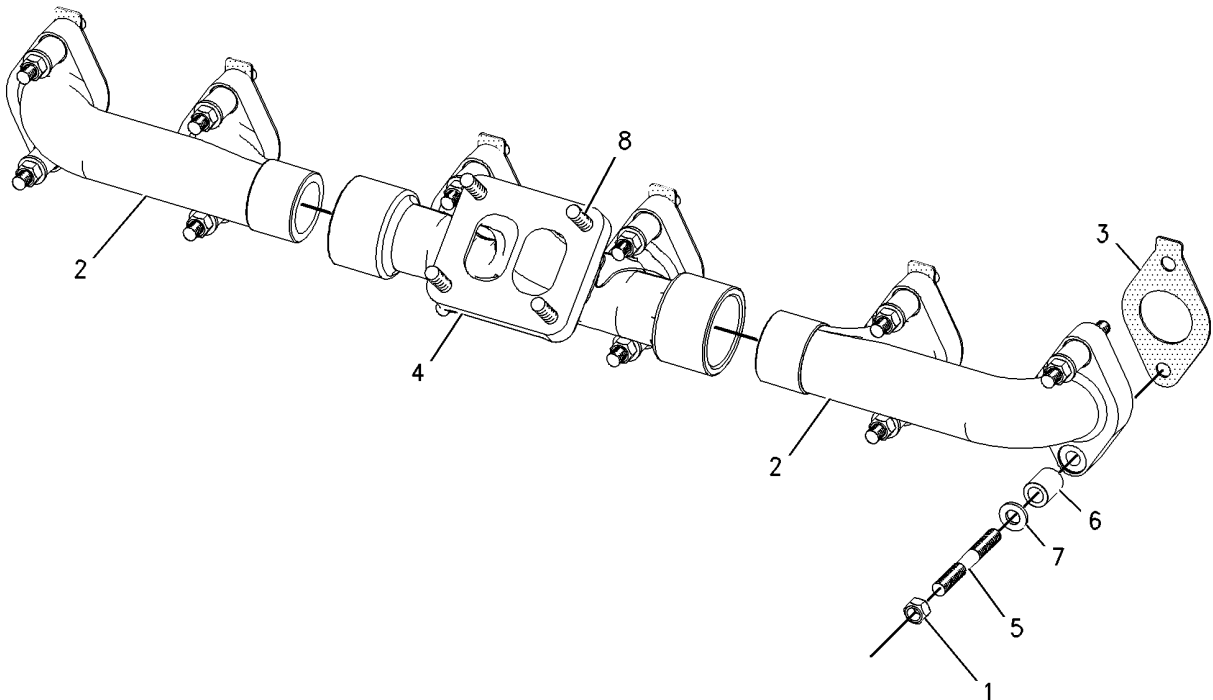
AN ATTACHMENT

SMCS-1059

i02298682

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	12	LOCKNUT (M10X1.5-MM THD)						
	2	1	161-3398	2	MANIFOLD-EXHAUST						
	3	1	161-3411	6	GASKET						
	4	1	192-4697	1	MANIFOLD-EXHAUST						
M	5	1	116-3715	12	STUD-TAPERLOCK (M10X1.5X85-MM)						
	6	1	4P-4369	6	SPACER (12X19X23.5-MM THK)						
	7	1	6V-5839	12	WASHER (11X21X2.5-MM THK)						
M	8	1	8T-7044	4	STUD-TAPERLOCK (M10X1.5X40-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00787062

AIR INLET AND EXHAUST SYSTEM

194-9643 MANIFOLD GP-EXHAUST

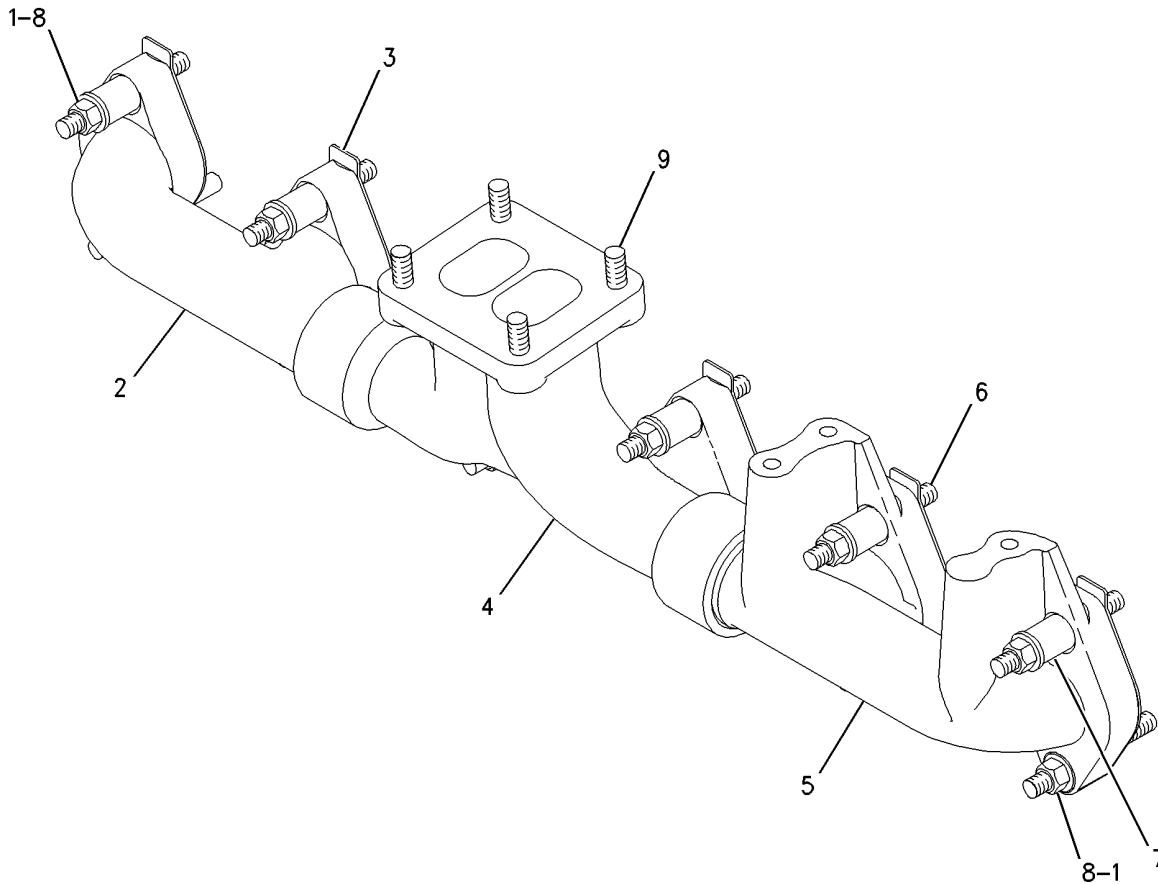
AN ATTACHMENT

SMCS-1059

i02550910

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
M	1	1	3E-8017	12	LOCKNUT (M10X1.5-MM-THD)							
	2	1	161-3398	1	MANIFOLD-EXHAUST							
	3	1	161-3411	6	GASKET							
	4	1	194-9644	1	MANIFOLD-EXHAUST							
	5	1	203-7775	1	MANIFOLD-EXHAUST							
M	6	1	116-3715	12	STUD-TAPERLOCK (M10X1.5X85-MM)							
	7	1	4P-4369	6	SPACER (12X19X23.5-MM THK)							
	8	1	6V-5839	12	WASHER (11X21X2.5-MM THK)							
M	9	1	8T-7044	4	STUD-TAPERLOCK (M10X1.5X40-MM)							

M-METRIC PART



GRAPHIC #1

<END>

g00816622

AIR INLET AND EXHAUST SYSTEM

204-1545 MANIFOLD GP-EXHAUST

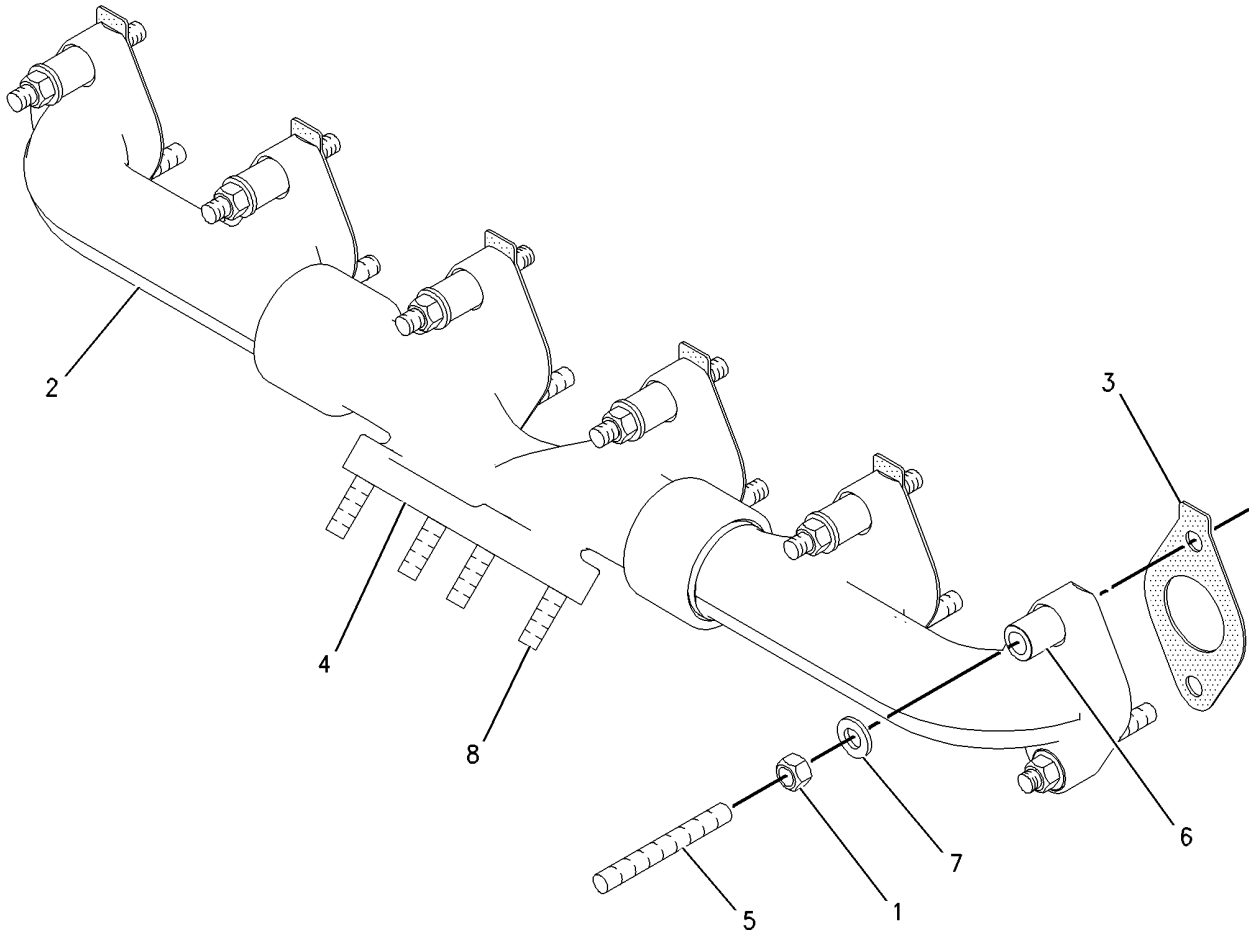
AN ATTACHMENT

SMCS-1059

i02296006

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
M	1	1	3E-8017	12	LOCKNUT (M10X1.5-MM THD)						
	2	1	161-3398	2	MANIFOLD-EXHAUST						
	3	1	161-3411	6	GASKET						
	4	1	192-4697	1	MANIFOLD-EXHAUST						
M	5	1	116-3715	12	STUD-TAPERLOCK (M10X1.5X85-MM)						
	6	1	4P-4369	6	SPACER (12X19X23.5-MM THK)						
	7	1	6V-5839	12	WASHER (11X21X2.5-MM THK)						
M	8	1	8T-7044	4	STUD-TAPERLOCK (M10X1.5X40-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00784384

AIR INLET AND EXHAUST SYSTEM

212-6029 MANIFOLD GP-EXHAUST

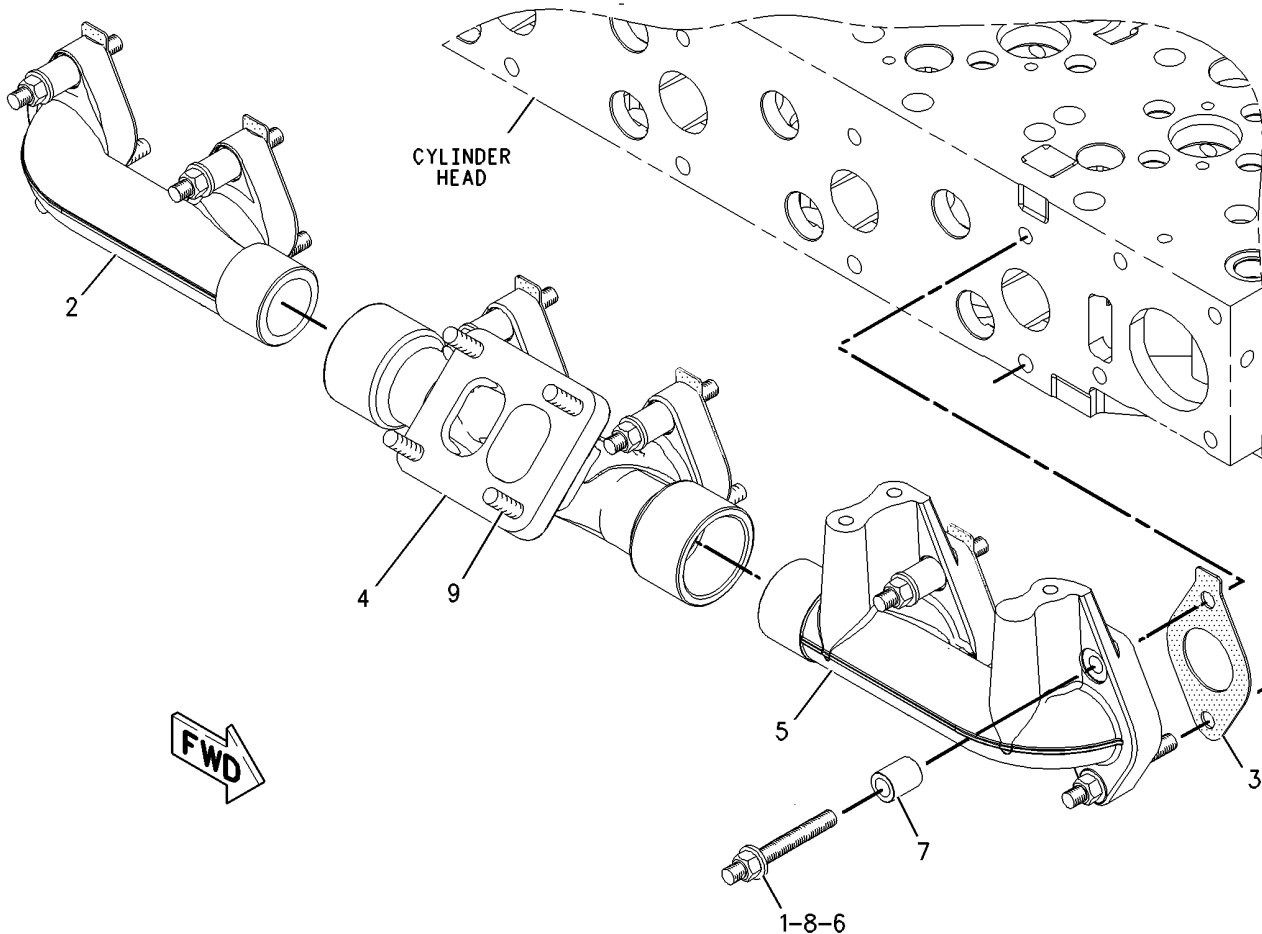
AN ATTACHMENT

SMCS-1059

i02550937

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	12	LOCKNUT (M10X1.5-MM-THD)						
	2	1	161-3398	1	MANIFOLD-EXHAUST						
	3	1	161-3411	6	GASKET						
	4	1	192-4697	1	MANIFOLD-EXHAUST						
	5	1	203-7775	1	MANIFOLD-EXHAUST						
M	6	1	116-3715	12	STUD-TAPERLOCK (M10X1.5X85-MM)						
	7	1	4P-4369	6	SPACER (12X19X23.5-MM THK)						
	8	1	6V-5839	12	WASHER (11X21X2.5-MM THK)						
M	9	1	8T-7044	4	STUD-TAPERLOCK (M10X1.5X40-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g00870053

AIR INLET AND EXHAUST SYSTEM

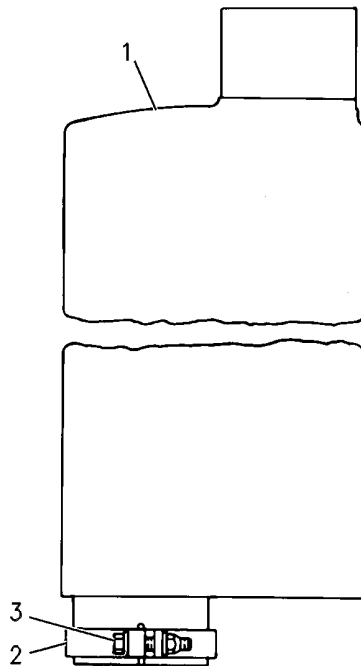
4N-8086 MUFFLER GP

AN ATTACHMENT

SMCS-1062

i02346252

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4N-4577	1	MUFFLER AS						
	2	1	7N-5685	1	CLAMP						
	3	1	0L-1352	1	BOLT (3/8-16X3.25-IN)						
		1	1B-5355	1	NUT-FULL (3/8-16 THD)						
		1	5M-2894	2	WASHER-HARD (10.2X18.5X2.5-MM THK)						



GRAPHIC #1

<END>

g00114642

AIR INLET AND EXHAUST SYSTEM

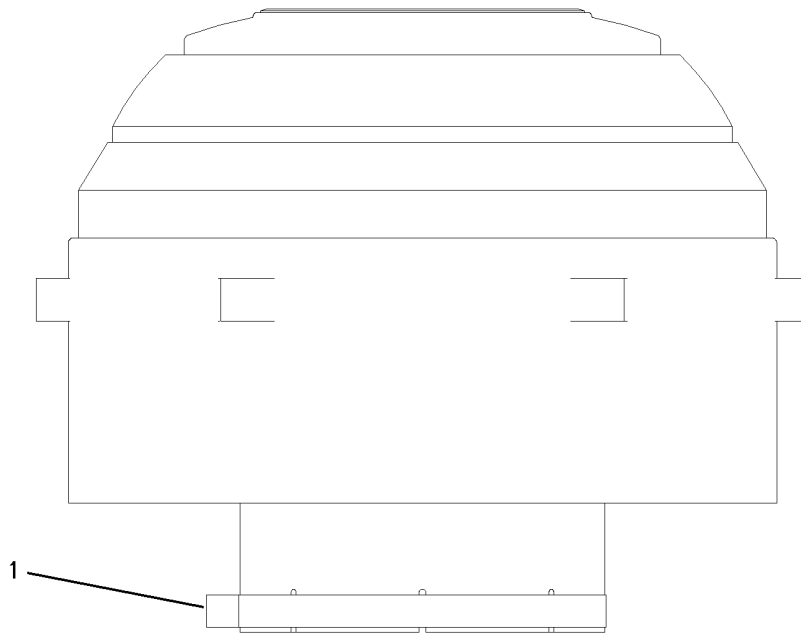
130-3281 PRECLEANER AS

PART OF 280-2581 PRECLEANER GP
AN ATTACHMENT

SMCS-1055

i02503675

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	174-4895	2	CLAMP						



GRAPHIC #1

<END>

g00658715

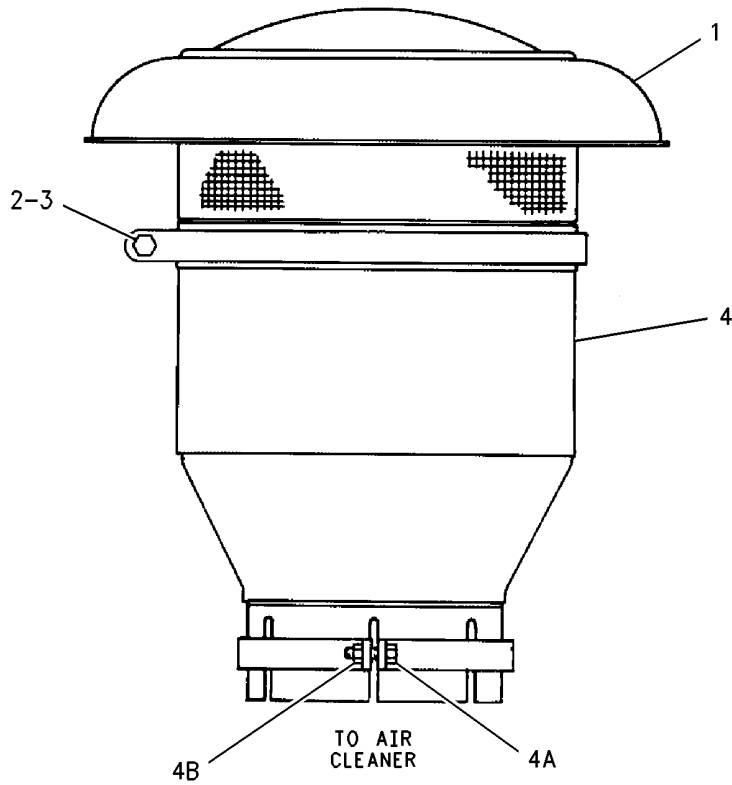
AIR INLET AND EXHAUST SYSTEM

6N-8588 PRECLEANER GP AN ATTACHMENT

SMCS-1055

i02549980

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7S-3687	1	HOOD AS (PRECLEANER)						
	2	1	4L-9337	1	BOLT (3/8-16X1.5-IN)						
	3	1	6V-8801	1	NUT (3/8-16-THD)						
	4	1	6N-8587	1	BODY AS (PRECLEANER)						
	4A	1	0S-1571	1	BOLT (3/8-16X1.75-IN)						
	4B	1	6V-8801	1	NUT (3/8-16-THD)						



GRAPHIC #1

<END>

g00722850

AIR INLET AND EXHAUST SYSTEM

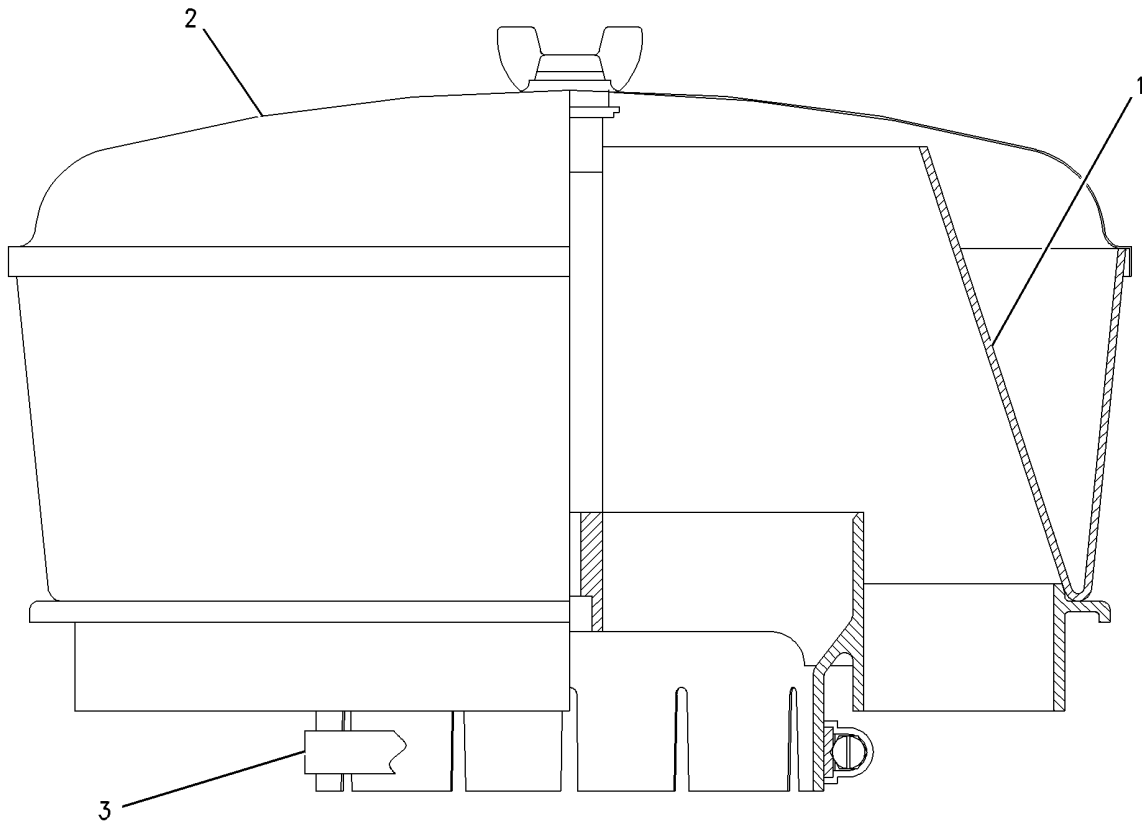
150-1714 PRECLEANER GP-AIR CLEANER

FITS OVER 177.8 MM (7 INCH) DIA INLET TUBE
FOR USE WITH DUAL ELEMENT AIR CLEANER
AN ATTACHMENT

SMCS-1055

i02569568

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 (AIR PRECLEANER)						
	2	1	2S-2493	1	COVER AS-PRECLEANER						
	3	1	5P-0600	1	CLAMP-HOSE						



GRAPHIC #1

<END>

g00769430

AIR INLET AND EXHAUST SYSTEM

280-2581 PRECLEANER GP

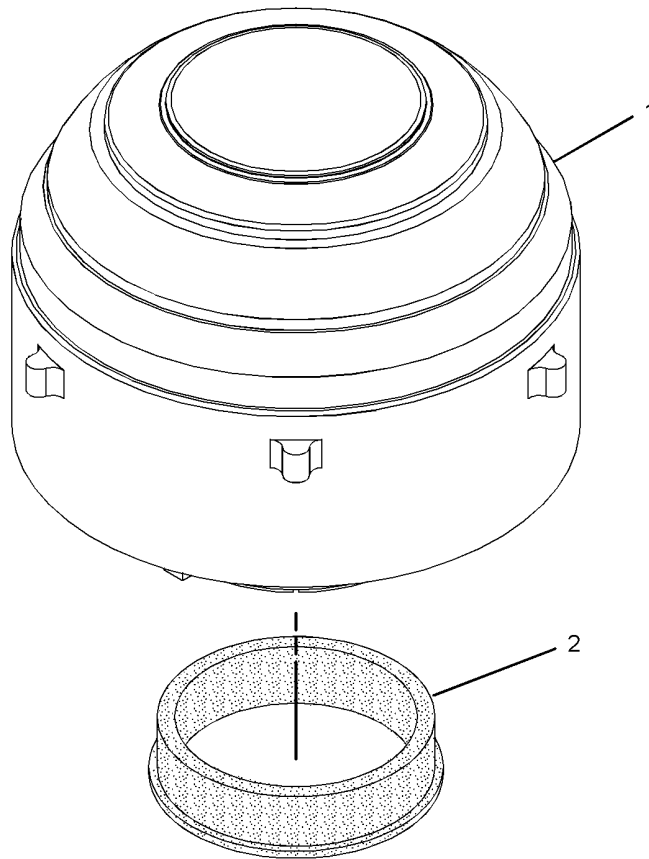
AN ATTACHMENT

SMCS-1055

i02503678

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	130-3281	1	PRECLEANER AS (AIR TURBINE)	278
	2	1	107-7495	1	DAMPER	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01293181

AIR INLET AND EXHAUST SYSTEM

250-7701 TURBOCHARGER GP*R

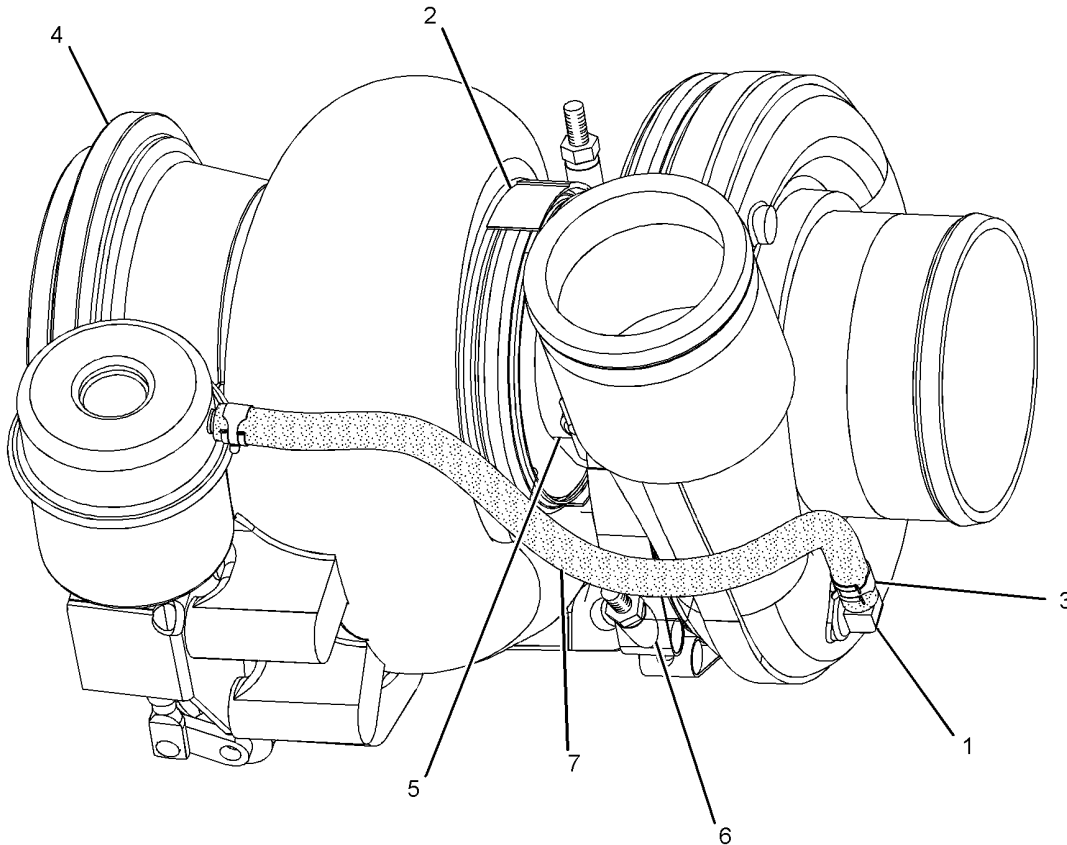
PART OF 256-1380 TURBOCHARGER GP
ALSO AN ATTACHMENT

SMCS-1052, 1053

i02258922

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-4536	1	ELBOW						
	2	1	137-1602	1	CLAMP AS						
		1	7M-9918	1	LOCKNUT (1/4-28-THD)						
	3	1	161-6963	2	CLAMP						
	4	1	210-2678	1	HOUSING AS-TURBINE						
	5	1	211-6960	1	CARTRIDGE GP-TURBOCHARGER						
	6	1	248-5576	1	CLAMP AS-V-BAND						
		1	7M-9918	1	LOCKNUT (1/4-28-THD)						
E	7	1	242-3360		HOSE (46-CM)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01137418

AIR INLET AND EXHAUST SYSTEM

253-7324 TURBOCHARGER GP*R

PART OF 256-1201 TURBOCHARGER GP

SMCS-1052, 1053

i02596403

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	255-5457	1	CARTRIDGE GP-TURBOCHARGER						
	137-1602	1	CLAMP AS						
	7M-9918	1	LOCKNUT (1/4-28-THD)						
	248-5576	1	CLAMP AS-V-BAND						
	7M-9918	1	LOCKNUT (1/4-28-THD)						

<END>

AIR INLET AND EXHAUST SYSTEM

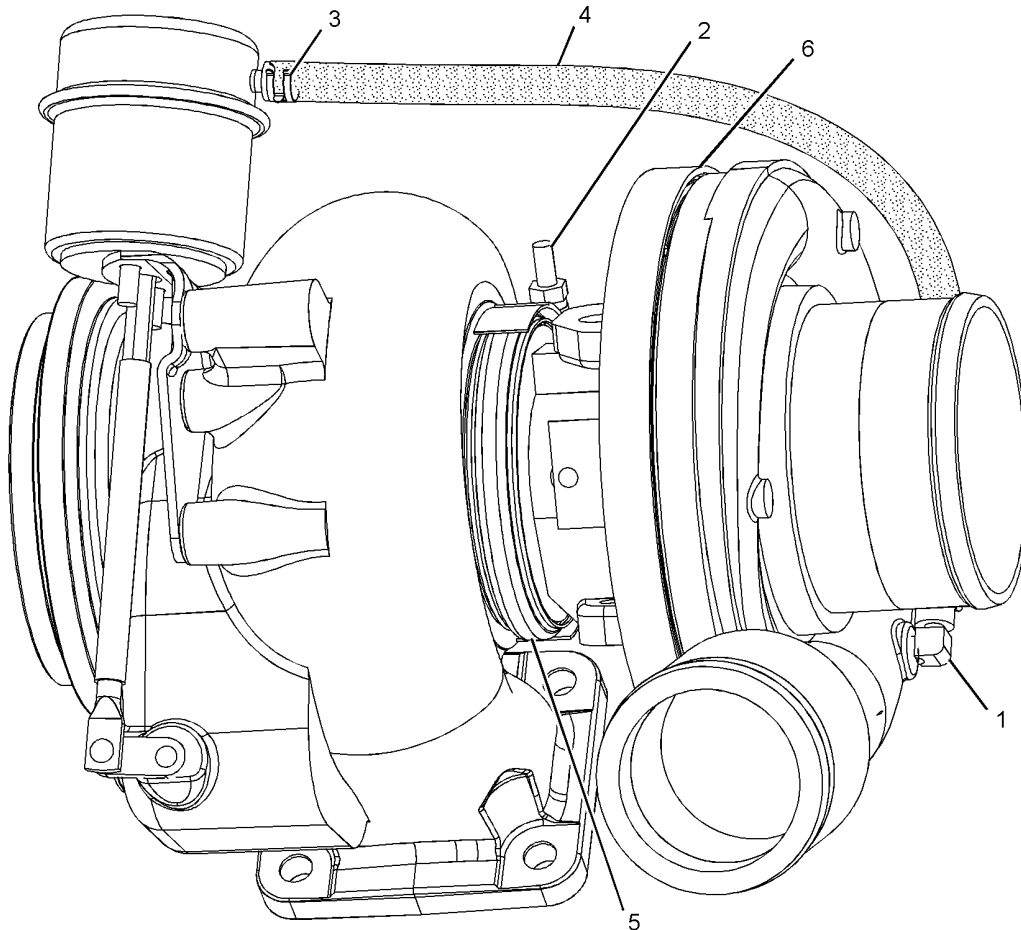
253-7325 TURBOCHARGER GP

PART OF 256-1377 TURBOCHARGER GP
ALSO AN ATTACHMENT

SMCS-1052, 1053

i02262458

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5P-4536	1	ELBOW						
	2	1	137-1602	1	CLAMP AS						
		1	7M-9918	1	LOCKNUT (1/4-28-THD)						
	3	1	161-6963	2	CLAMP						
	4	1	179-0091	1	HOSE						
	5	1	196-6097	1	CARTRIDGE GP-TURBOCHARGER						
	6	1	248-5576	1	CLAMP AS-V-BAND						
		1	7M-9918	1	LOCKNUT (1/4-28-THD)						



GRAPHIC #1

<END>

g01137465

AIR INLET AND EXHAUST SYSTEM

256-1201 TURBOCHARGER GP

PART OF 287-3653 ENGINE AR-CORE

SMCS-1052, 1053

i02596399

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
YR	253-7324	1	TURBOCHARGER GP						283
	1P-0451	1	GASKET						
M	3E-8017	4	LOCKNUT (M10X1.5-MM-THD)						

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

<END>

AIR INLET AND EXHAUST SYSTEM

256-1249 TURBOCHARGER GP

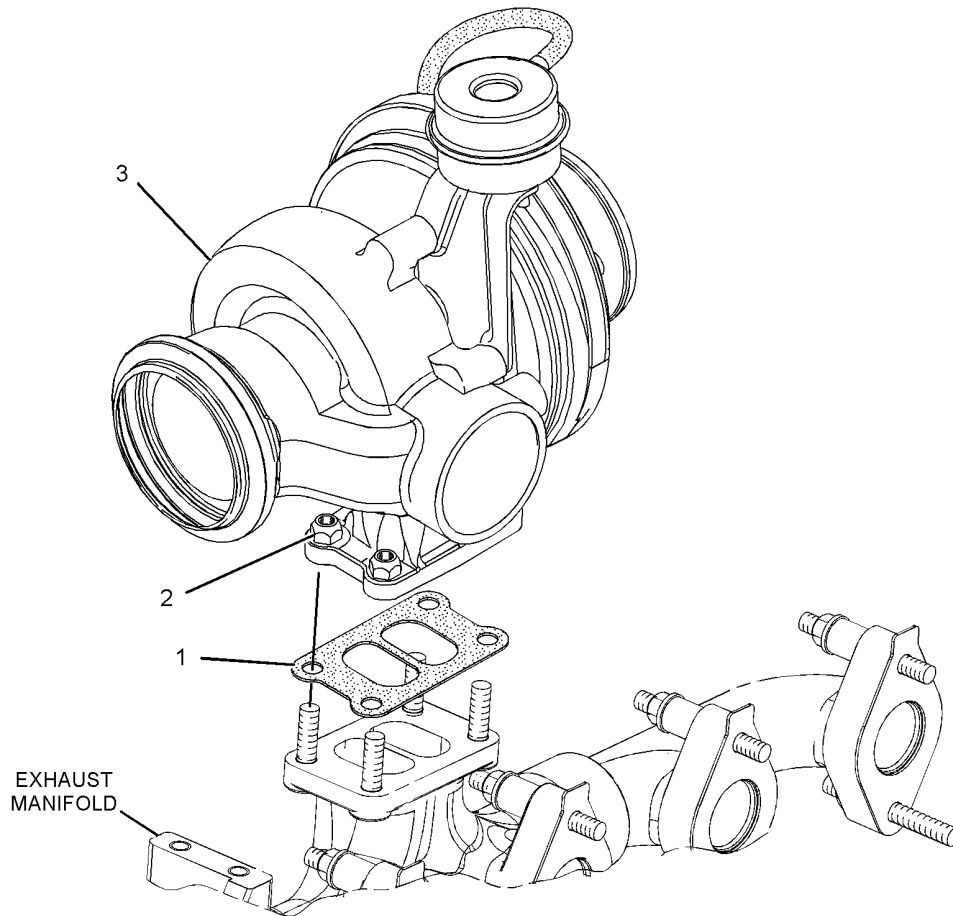
SMCS-1052, 1053

i02597467

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1P-0451	1	GASKET						
M	2	1	3E-8017	4	LOCKNUT (M10X1.5-MM-THD)						
R	3	1	248-0323	1	TURBOCHARGER GP						

M-METRIC PART

R-REMG PART MAY BE AVAILABLE



GRAPHIC #1

<END>

g01300305

AIR INLET AND EXHAUST SYSTEM

256-1377 TURBOCHARGER GP

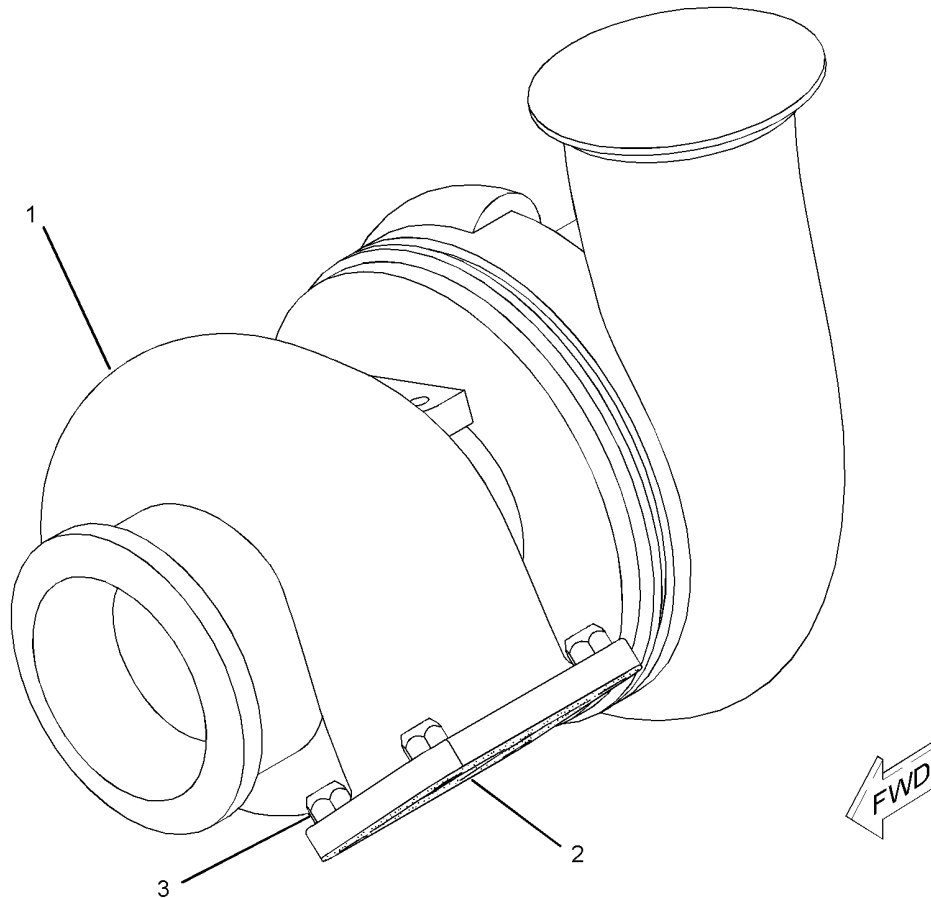
ALSO AN ATTACHMENT

SMCS-1052, 1053

i02260713

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	253-7325	1	TURBOCHARGER GP						284
	2	1	1P-0451	1	GASKET						
M	3	1	3E-8017	4	LOCKNUT (M10X1.5-MM THD)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01137446

AIR INLET AND EXHAUST SYSTEM

256-1380 TURBOCHARGER GP

ALSO AN ATTACHMENT

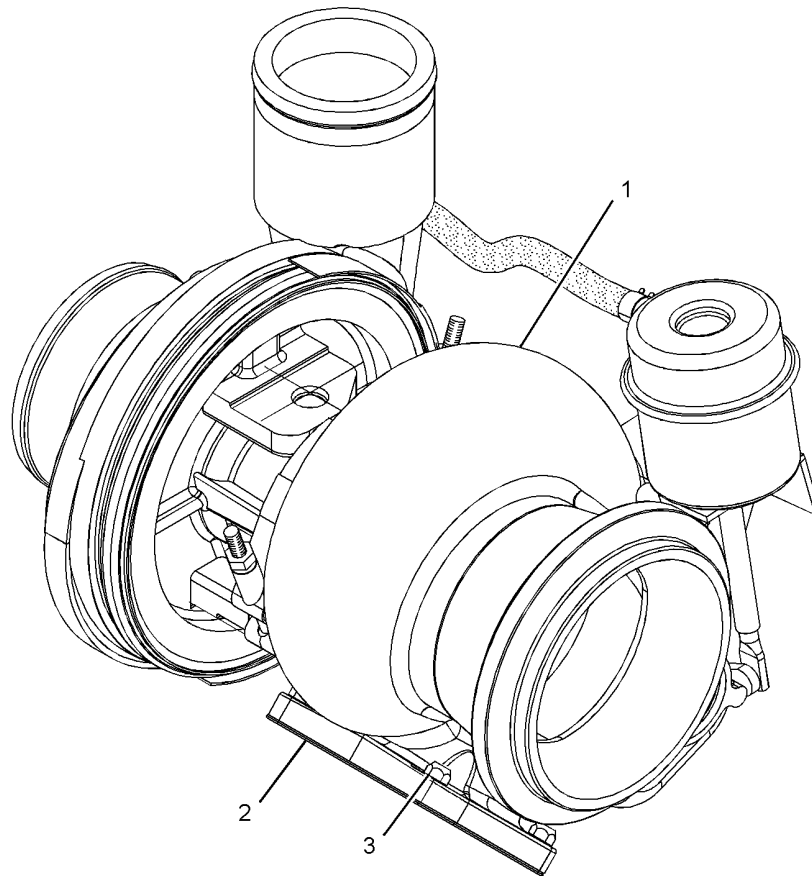
SMCS-1052, 1053

i02258438

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
Y	1	1	250-7701	1	TURBOCHARGER GP	282
	2	1	1P-0451	1	GASKET	
M	3	1	3E-8017	4	LOCKNUT (M10X1.5-MM THD)	

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01137447

FUEL SYSTEM

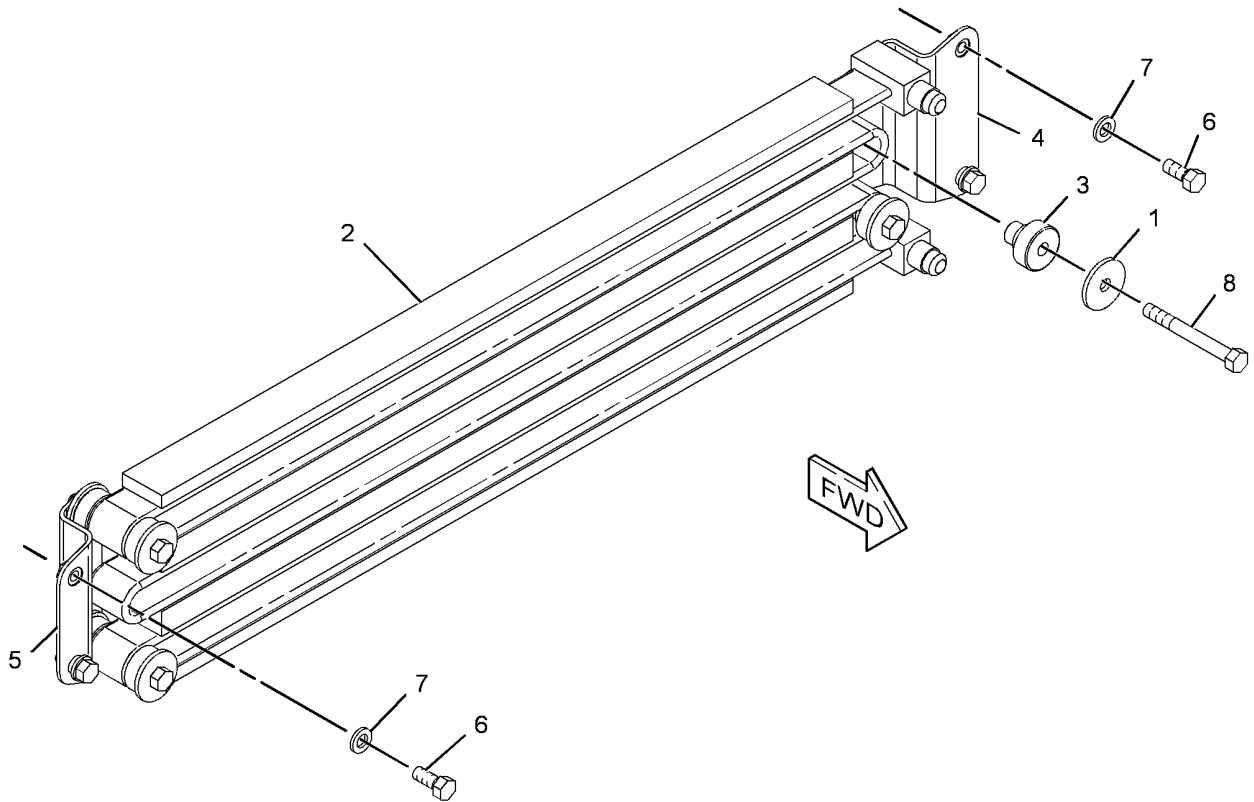
228-4336 COOLER GP-FUEL

AN ATTACHMENT

SMCS-1712

i02509969

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4F-3714	8	WASHER (0.375X1.5X0.135-IN THK)						
	2	1	129-5429	1	CORE AS-FUEL COOLER						
	3	1	141-1060	8	MOUNT-ISOLATION						
	4	1	228-4339	1	BRACKET AS						
	5	1	228-4340	1	BRACKET AS						
	6	1	5S-7379	4	BOLT (3/8-16X0.875-IN)						
	7	1	8T-4896	4	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	8	1	8T-8915	4	BOLT (3/8-16X3.25-IN)						



GRAPHIC #1

<END>

g01256423

FUEL SYSTEM

116-5410 COVER GP-FUEL FILTER BASE

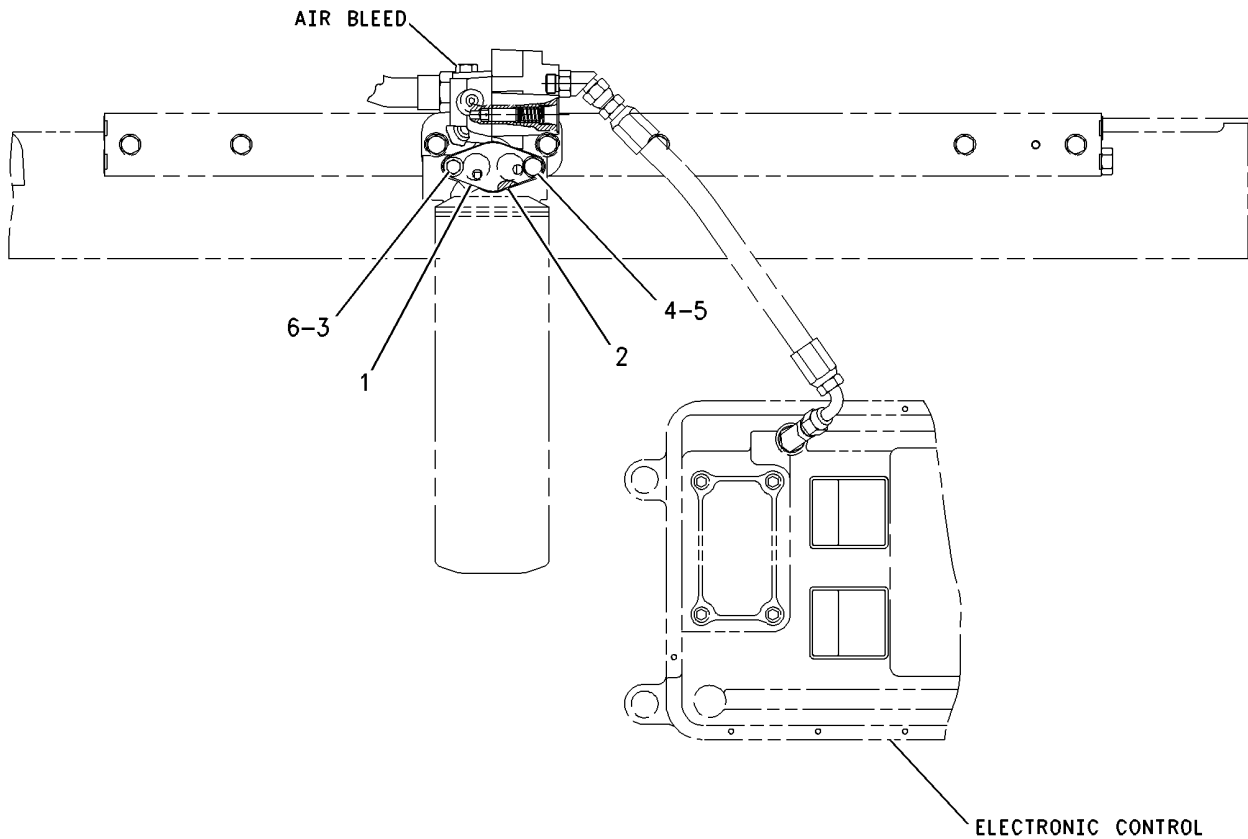
RIGHT HAND SERVICE, PROVIDES COVER AND SEAL WHEN NO PRIMING PUMP IS REQUIRED
FOR USE WITH METRIC FUEL FILTER BASE, FUEL FILTER GPS. CANNOT BE USED WITH
FUEL PRIMING PUMPS
AN ATTACHMENT

SMCS-1262

i02587670

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	6V-2315	1	BOLT (M6X1X35-MM)						
M	4	1	6V-5218	1	BOLT (M8X1.25X35-MM)						
	5	1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)						
	6	1	5P-0537	1	WASHER-HARD (7.2X14.5X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00683091

FUEL SYSTEM

201-8144 FILTER GP-FUEL

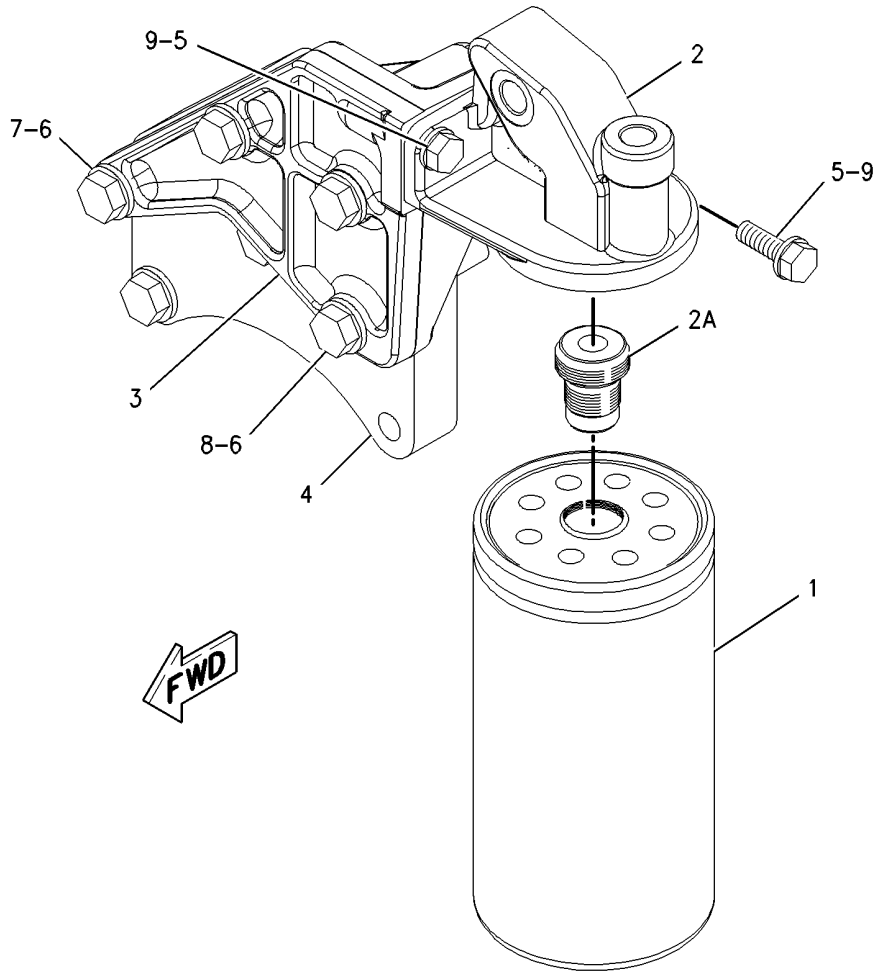
AN ATTACHMENT

SMCS-1261

i02293545

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	120-0201	1	BASE AS-FUEL FILTER						
	2A	1	112-6523	1	INSERT-FUEL FILTER						
	3	1	156-0243	1	BRACKET						
	4	1	201-2532	1	BRACKET						
M	5	1	6V-3940	2	BOLT (M8X1.25X25-MM)						
	6	1	6V-5839	6	WASHER (11X21X2.5-MM THK)						
M	7	1	6V-5843	5	BOLT (M10X1.5X45-MM)						
M	8	1	6V-7981	1	BOLT (M10X1.5X70-MM)						
	9	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g00765668

FUEL SYSTEM

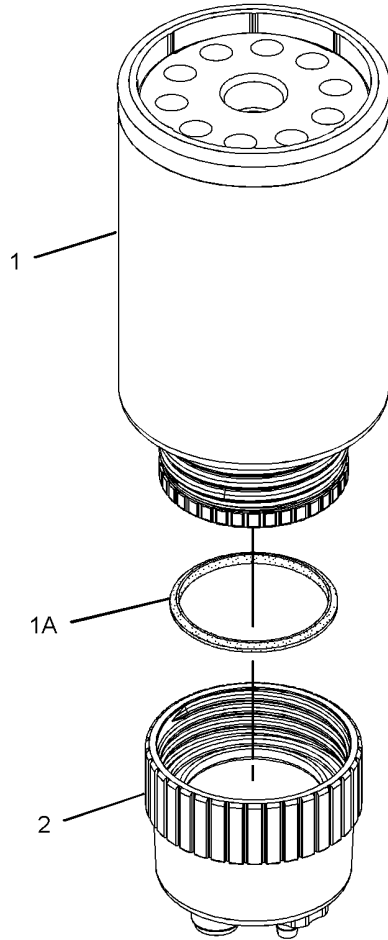
174-9570 FILTER GP-WATER SEP & FUEL

PART OF 263-2183 FILTER GP-WATER SEP & FUEL
AN ATTACHMENT

SMCS-1261, 1263

i02510022

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1R-0770	1	FILTER AS-WATER SEP & FUEL (PRIMARY)						
	1A	1	220-8678	1	SEAL-RING (FUEL, WATER SEPARATOR)						
	2	1	270-5320	1	BOWL AS (FUEL, WATER SEPARATOR)						



GRAPHIC #1

<END>

g01179858

FUEL SYSTEM

212-9431 FILTER GP-WATER SEP & FUEL

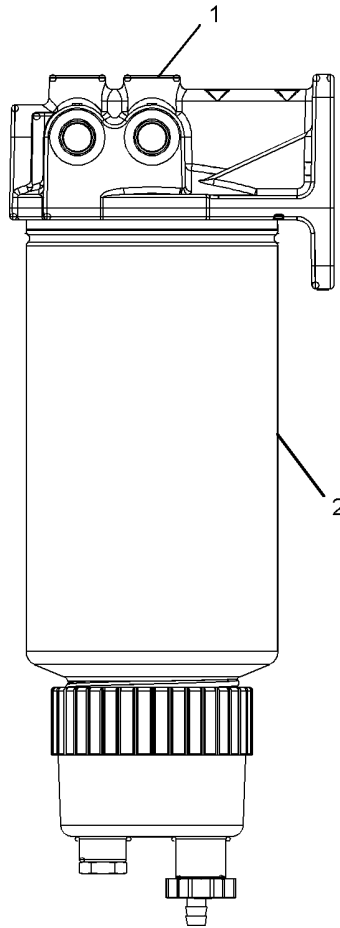
AN ATTACHMENT

SMCS-1261, 1263

i02401809

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	177-9778	1	BASE AS						
Y	2	1	212-9580	1	FILTER GP-WATER SEP & FUEL						294

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01078385

FUEL SYSTEM

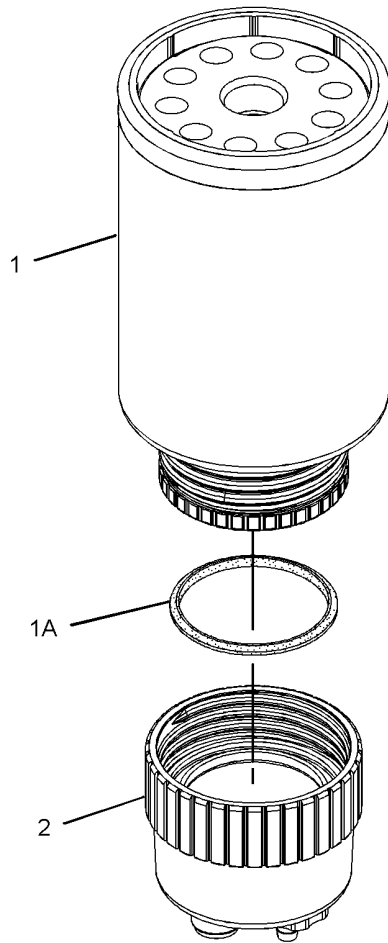
212-9580 FILTER GP-WATER SEP & FUEL

PART OF 212-9431, 280-3400 FILTER GP-WATER SEP & FUEL, 217-8342 PUMP GP-FUEL
PRM & SEC FILTER
AN ATTACHMENT

SMCS-1261, 1263

i02401794

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1R-0771	1	FILTER AS-FUEL						
	1A	1	220-8678	1	SEAL-RING (WATER SEPARATOR, FUEL)						
	2	1	270-5320	1	BOWL AS						



GRAPHIC #1

<END>

g01179858

FUEL SYSTEM

263-2183 FILTER GP-WATER SEP & FUEL

AN ATTACHMENT

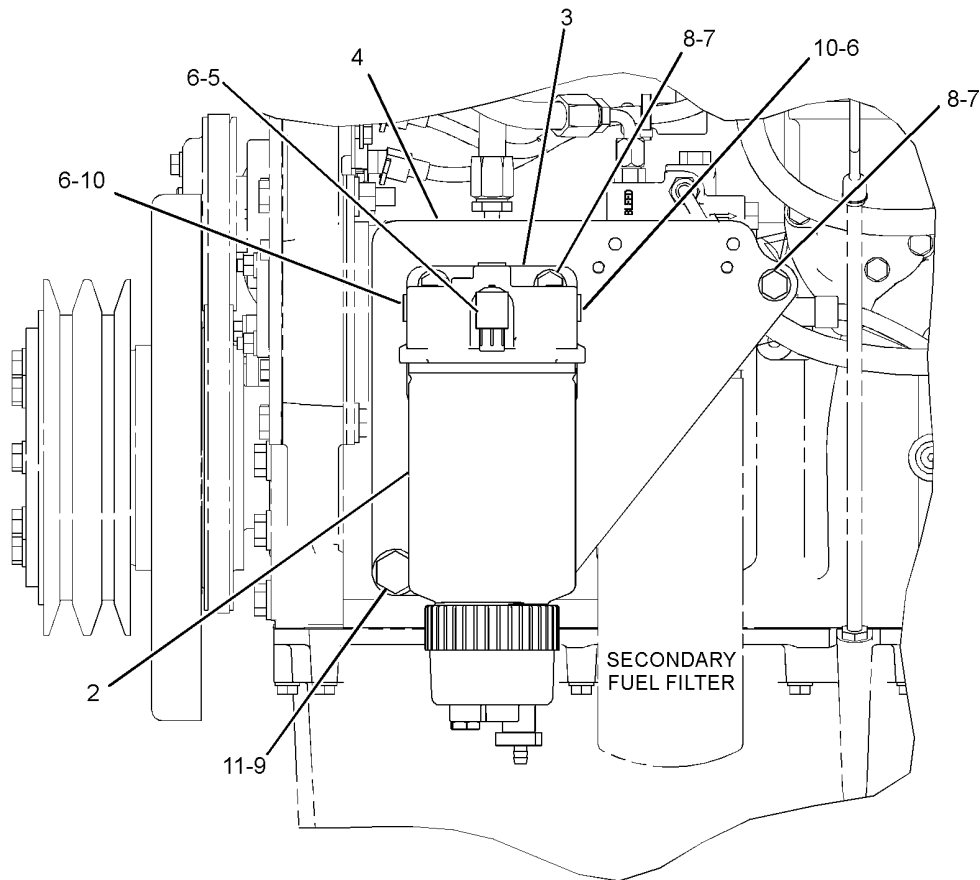
SMCS-1261, 1263

i02460033

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	2	1	174-9570	1	FILTER GP-WATER SEP & FUEL						292
	3	1	177-9778	1	BASE AS						
		1	9S-4167	1	STUD-HOLLOW (1-14X1.47-IN)						
	4	1	229-2026	1	PLATE						
	5	1	030-7947	1	ELBOW						
	6	1	6V-5049	6	SEAL-O-RING						
	7	1	8T-4121	5	WASHER-HARD (11X21X2.5-MM THK)						
M	8	1	8T-4136	5	BOLT (M10X1.5X25-MM)						
M	9	1	8T-4779	2	BOLT (M16X2X35-MM)						
	10	1	9S-8004	5	PLUG						
	11	1	9X-8257	2	WASHER (17.5X30X3.5-MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

LEFT SIDE VIEW

<END>

g01252414

FUEL SYSTEM

280-3400 FILTER GP-WATER SEP & FUEL

AN ATTACHMENT

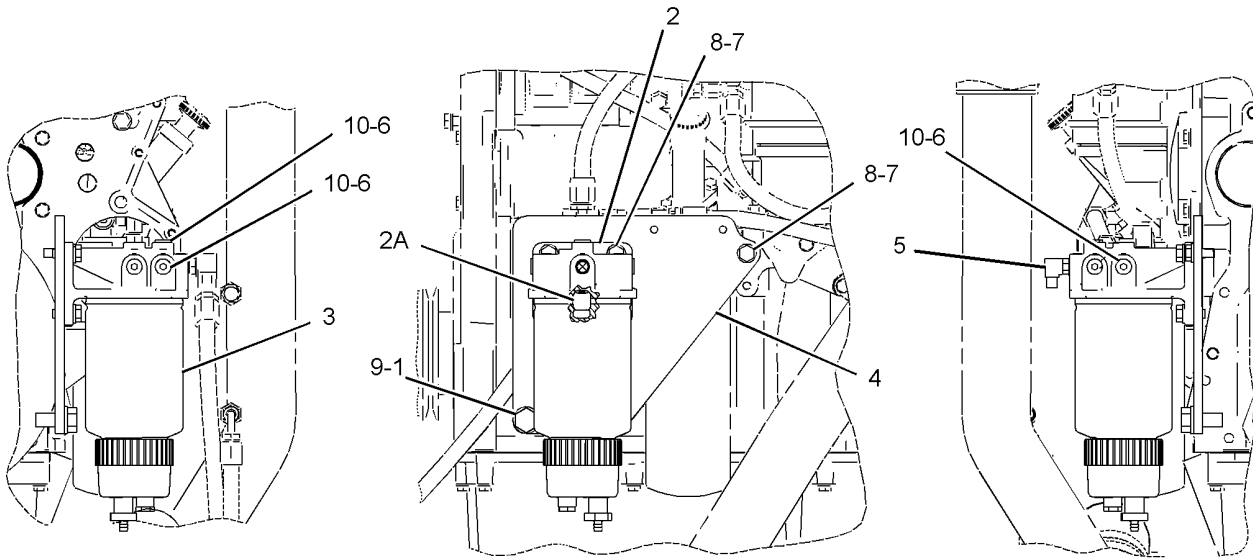
SMCS-1261, 1263

i02569888

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	177-9778	1	BASE AS						
	2A	1	9S-4167	1	STUD-HOLLOW (1-14X1.47-IN)						
Y	3	1	212-9580	1	FILTER GP-WATER SEP & FUEL						294
	4	1	280-3401	1	PLATE						
	5	1	164-6877	1	ELBOW AS						
		1	3J-1907	1	SEAL-O-RING						
		1	030-7947	1	ELBOW						
	6	1	190-7634	5	SEAL-O-RING						
	7	1	8T-4121	5	WASHER-HARD (11X21X2.5-MM THK)						
M	8	1	8T-4136	5	BOLT (M10X1.5X25-MM)						
M	9	1	8T-4779	2	BOLT (M16X2X35-MM)						
	10	1	9S-8004	5	PLUG						
	11	1	9X-8257	2	WASHER (17.5X30X3.5-MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



*XTR1

*XTR2

*XTR3

GRAPHIC #1

<END>

g01291152

FUEL SYSTEM

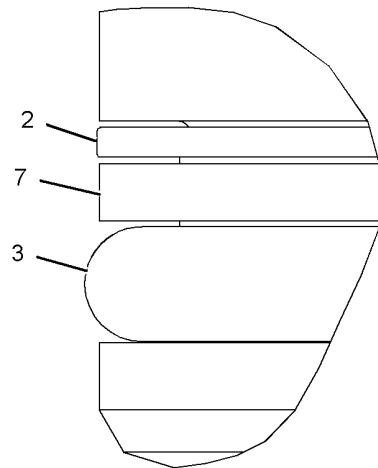
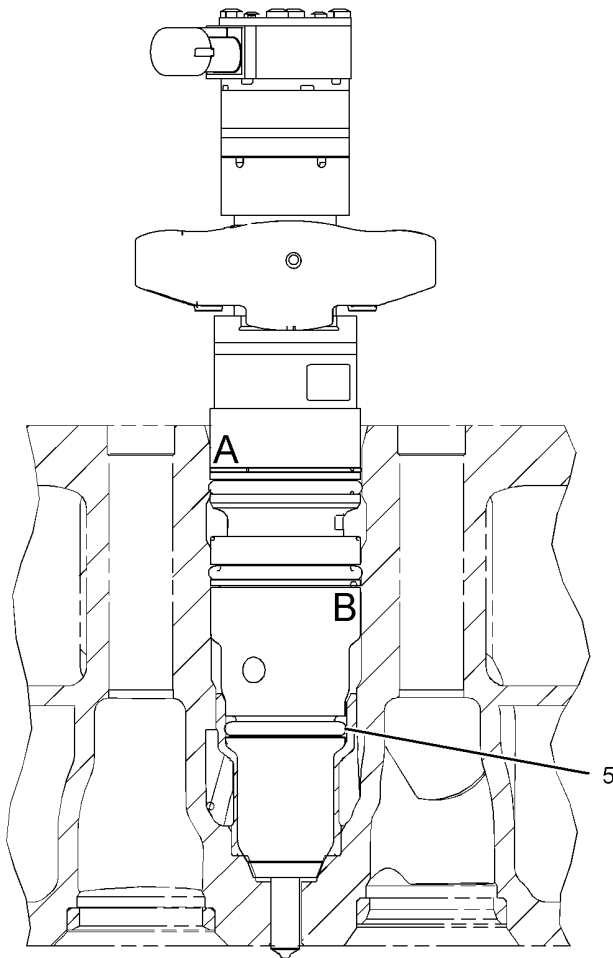
267-3360 INJECTOR GP-FUEL

PART OF 267-3361 PUMP GP-FUEL INJECTION

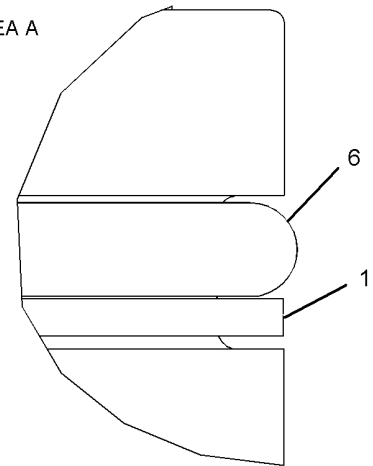
SMCS-1251, 1254, 1290, 1713

i02299737

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	149-5240	1	RING-BACKUP						
	2	1	169-3104	1	RING-BACKUP						
	3	1	169-8598	1	SEAL-O-RING						
	5	1	109-3207	1	SEAL-O-RING						
	6	1	148-2903	1	SEAL-O-RING						
	7	1	169-8586	1	RING-BACKUP						



VIEW OF AREA A



VIEW OF AREA B

GRAPHIC #1

<END>

g01147349

FUEL SYSTEM

267-9711 INJECTOR GP-FUEL

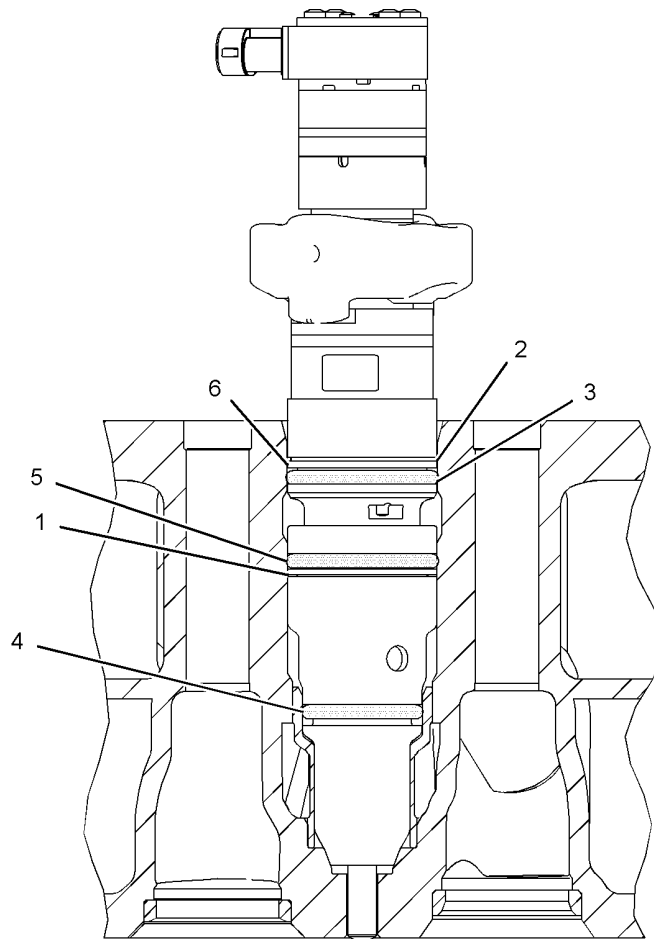
2.2 SF

PART OF 267-9718 PUMP GP-FUEL INJECTION

SMCS-1251, 1254, 1290, 1713

i02282989

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE	
					1	2	3	4	5	6 (PRODUCT LEVEL)		
	1	1	149-5240	1								
	2	1	169-3104	1								
	3	1	169-8598	1								
	4	1	109-3207	1								
	5	1	148-2903	1								
	6	1	169-8586	1								



GRAPHIC #1

<END>

g01143141

FUEL SYSTEM

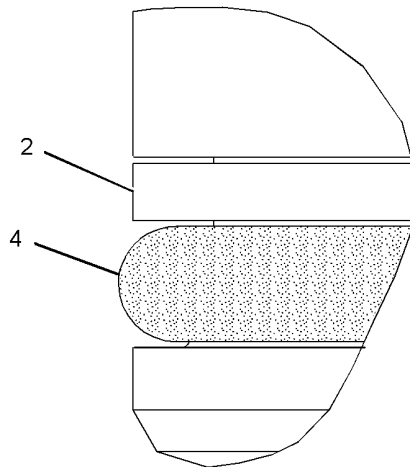
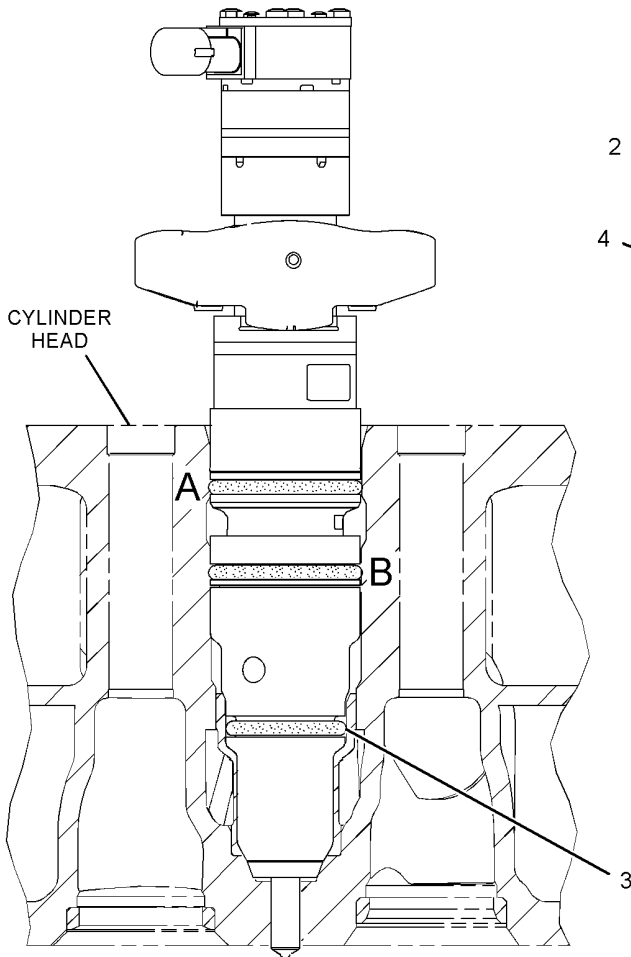
293-4072 INJECTOR GP-FUEL

PART OF 267-3361 PUMP GP-FUEL INJECTION

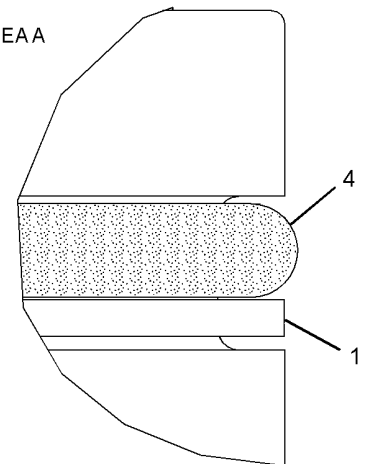
SMCS-1251, 1254, 1290, 1713

i02571977

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE	
					1	2	3	4	5	6 (PRODUCT LEVEL)		
	1	1	149-5240	1								
	2	1	293-0730	1								
	3	1	109-3207	1								
	4	1	148-2903	2								



VIEW OF AREA A



VIEW OF AREA B

GRAPHIC #1

<END>

g01290525

FUEL SYSTEM

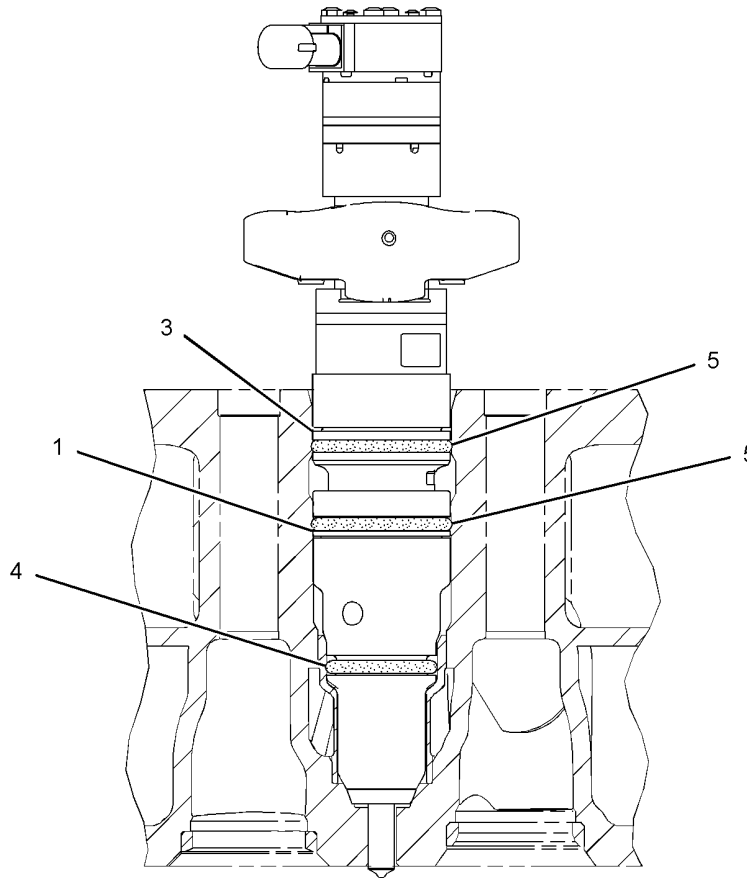
293-4073 INJECTOR GP-FUEL

PART OF 267-9718 PUMP GP-FUEL INJECTION

SMCS-1251, 1254, 1290, 1713

i02572976

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE	
					1	2	3	4	5	6 (PRODUCT LEVEL)		
	1	1	149-5240	1								
	3	1	293-0730	1								
	4	1	109-3207	1								
	5	1	148-2903	2								



GRAPHIC #1

<END>

g01293215

FUEL SYSTEM

203-3154 LINES GP-FLEXIBLE FUEL

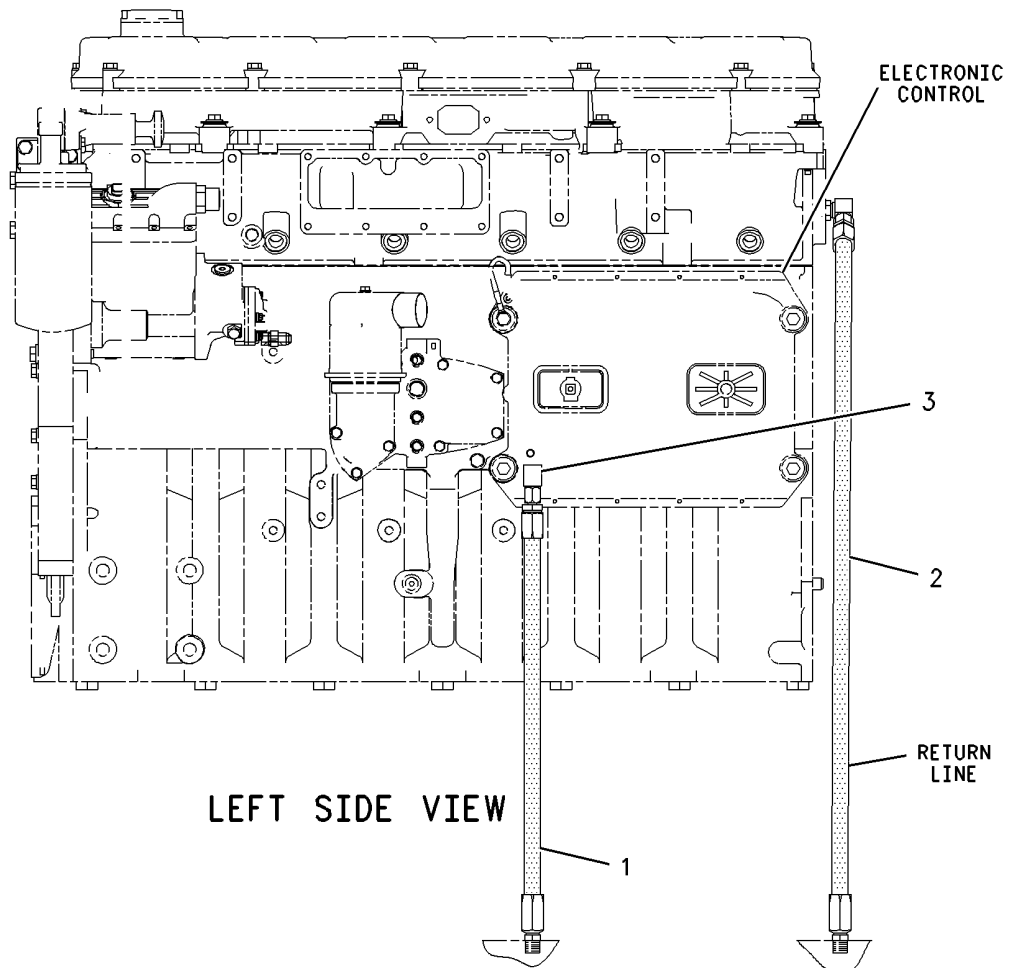
AN ATTACHMENT

SMCS-1274

i02177901

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-FLARED						

I-REFER TO HYDRAULIC INFORMATION SYSTEM



GRAPHIC #1

<END>

g00789120

FUEL SYSTEM

280-2584 LINES GP-FLEXIBLE FUEL

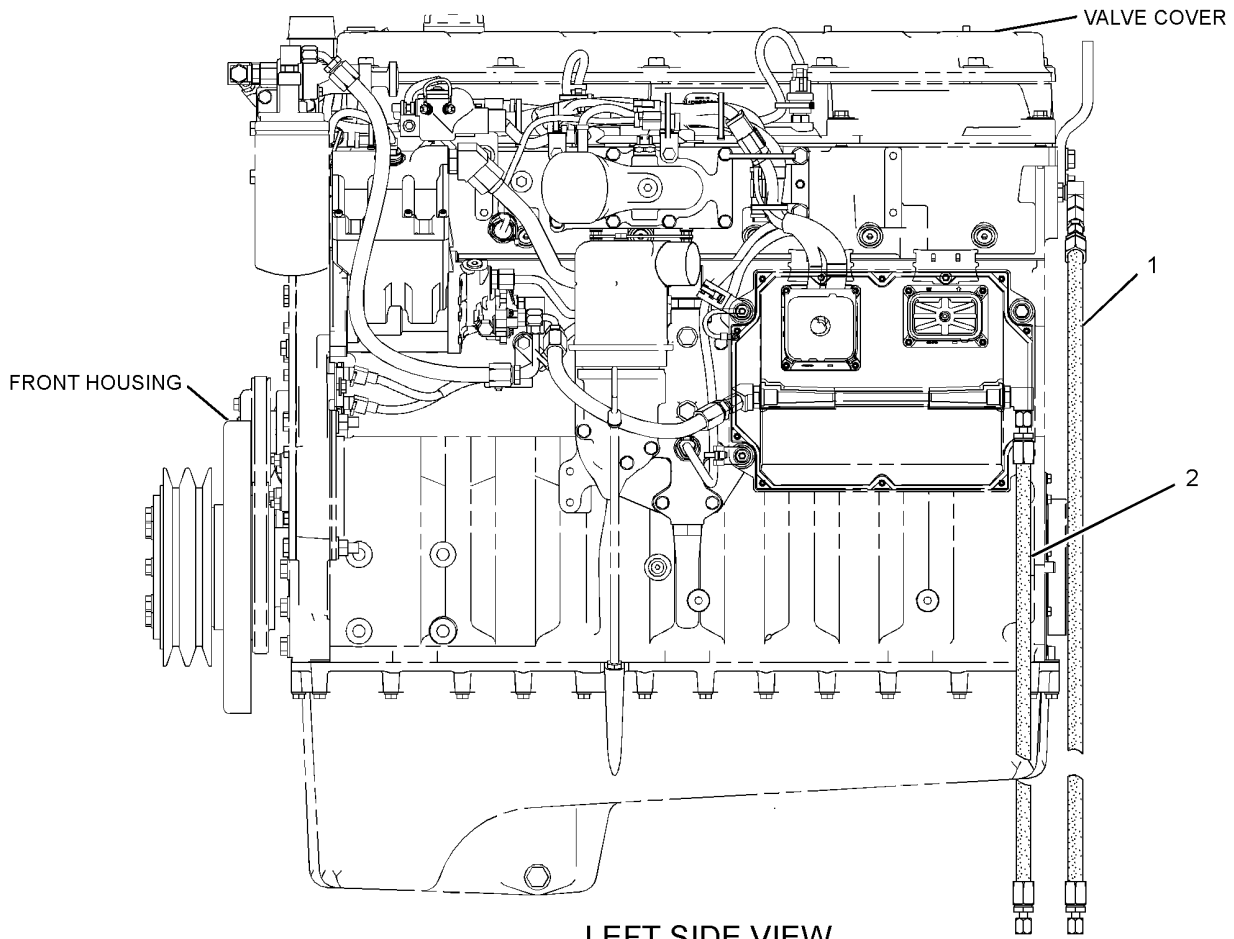
AN ATTACHMENT

SMCS-1274

i02494590

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

I-REFER TO HYDRAULIC INFORMATION SYSTEM



LEFT SIDE VIEW

GRAPHIC #1

<END>

g01209627

FUEL SYSTEM

230-2561 LINES GP-FUEL

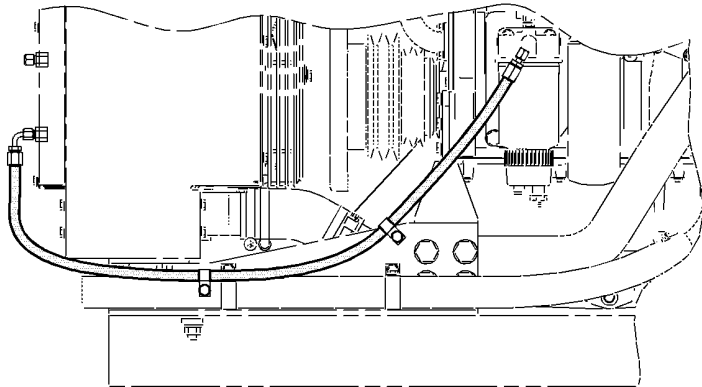
AN ATTACHMENT

SMCS-1274

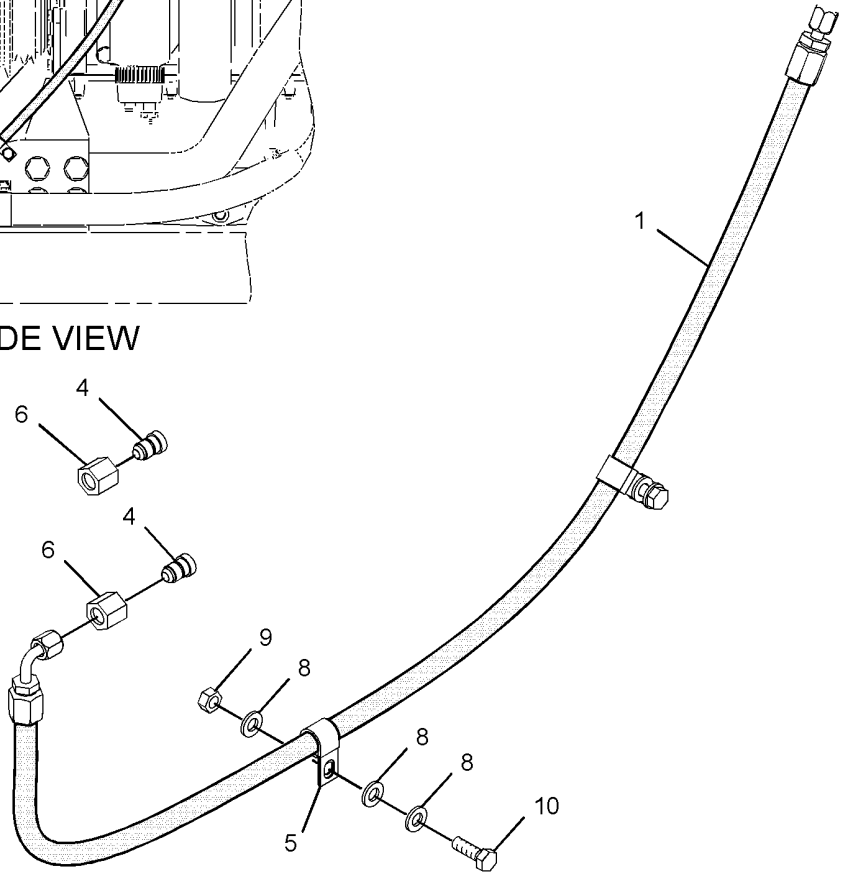
i02515395

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
I	1	1	7W-8857	1	HOSE AS						
	4	1	030-8144	2	REDUCER-FLARED						
	5	1	067-2551	2	CLIP						
	6	1	1P-1441	2	NUT-FLARED (3/4-16-THD)						
	8	1	8T-4121	6	WASHER-HARD (11X21X2.5-MM THK)						
M	9	1	8T-4133	2	NUT (M10X1.5-THD)						
M	10	1	8T-4195	2	BOLT (M10X1.5X30-MM)						

I-REFER TO HYDRAULIC INFORMATION SYSTEM
M-METRIC PART



LEFT SIDE VIEW



GRAPHIC #1

<END>

g01246663

FUEL SYSTEM

252-5562 LINES GP-FUEL FILTER

AN ATTACHMENT

SMCS-1261, 1274

i02575027

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	2	1P-0436	1	GASKET (FUEL PRIMING PUMP)	
	2	1	1R-0762	1	FILTER AS-FUEL (ADVANCED EFFICIENCY) (SECONDARY)	
	3	1,2	3S-2093	4	STRAP-CABLE	
	4	2	105-2508	1	PUMP AS-FUEL PRIMING	
		2	7L-9061	1	SEAL-O-RING	
		2	229-3218	2	VALVE AS	
	6	2	183-3402	1	ELBOW AS	
		2	6V-5049	1	SEAL-O-RING	
		2	030-7942	1	ELBOW	
	7	2	185-3627	1	TUBE AS	
	8	1	186-1667	2	CONNECTOR AS (EACH INCLUDES)	
		1	2R-6806	1	CONNECTOR-O-RING	
		1	6V-5049	1	SEAL-O-RING	
	9	2	186-6315	1	BLOCK-FUEL	
	10	1,2	191-7805	3	ELBOW AS (EACH INCLUDES)	
		1,2	6V-5049	1	SEAL-O-RING	
		1,2	030-7947	1	ELBOW	
	11	2	3E-2332	1	ELBOW	
	12	2	229-8871	1	REGULATOR AS (FUEL PRESSURE)	
	13	1	238-6790	1	BASE AS-FUEL FILTER	
Y	14	2	239-2396	1	SENSOR GP-PRESSURE (FUEL)	373
	15	1	252-5563	1	TUBE AS	
	16	2	252-5564	1	BRACKET	
	17	1	257-7274	1	HARNESS AS-SENSOR (FUEL)	
		1	102-8803	1	KIT-RECEPTACLE (3-PIN) (INCLUDES RECEPTACLE AS AND WEDGE)	
		1	102-8806	1	KIT-RECEPTACLE (8-PIN) (INCLUDES RECEPTACLE AS AND WEDGE)	
	18	2	030-7942	1	ELBOW	
I	19	2	172-3445	1	HOSE AS	
	20	2	4P-7428	1	CLIP	
	21	1,2	4P-7581	3	CLIP	
	22	2	5P-8245	3	WASHER-HARD (13.5X25.5X3-MM THK)	
	23	1	5P-9297	1	CLIP	
M	24	2	6A-5591	1	BOLT (M12X1.75X25-MM)	
M	25	2	6V-2315	1	BOLT (M6X1X35-MM)	
M	26	1	6V-3822	2	BOLT (M10X1.5X35-MM)	
M	27	1	6V-3940	2	BOLT (M8X1.25X25-MM)	
M	28	2	6V-4249	1	BOLT (M10X1.5X50-MM)	
	30	1,2	6V-5049	4	SEAL-O-RING	
M	31	1	6V-5218	1	BOLT (M8X1.25X35-MM)	
	32	1,2	6V-5839	7	WASHER (11X21X2.5-MM THK)	
M	33	1	6V-5842	1	BOLT (M10X1.5X40-MM)	
M	34	1	6V-6317	3	BOLT (M10X1.5X20-MM)	
M	35	2	6V-8149	1	NUT (M12X1.75-THD)	
	37	2	6V-8636	1	CONNECTOR	
	39	2	7V-6214	1	STRIP	
	40	2	8L-2779	1	SEAL-O-RING	
M	41	2	8T-0293	1	BOLT (M12X1.75X20-MM)	
	42	1	9M-1974	3	WASHER-HARD (8.8X16X2-MM THK)	
	43	2	110-6349	1	FITTING AS (QUICK DISCONNECT)	
	44	1	9S-4191	1	PLUG-O RING	
	45	2	9X-8267	1	WASHER (6.6X12X2-MM THK)	

FUEL SYSTEM

252-5562 LINES GP-FUEL FILTER (contd.)

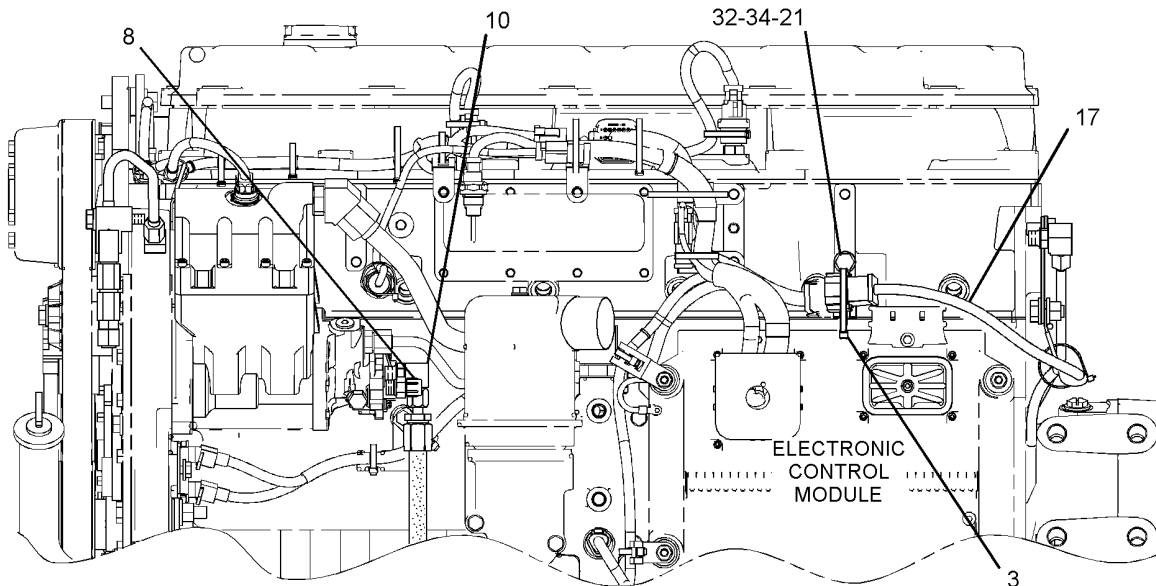
i02575027

I-REFER TO HYDRAULIC INFORMATION SYSTEM
M-METRIC PART
Y-SEPARATE ILLUSTRATION

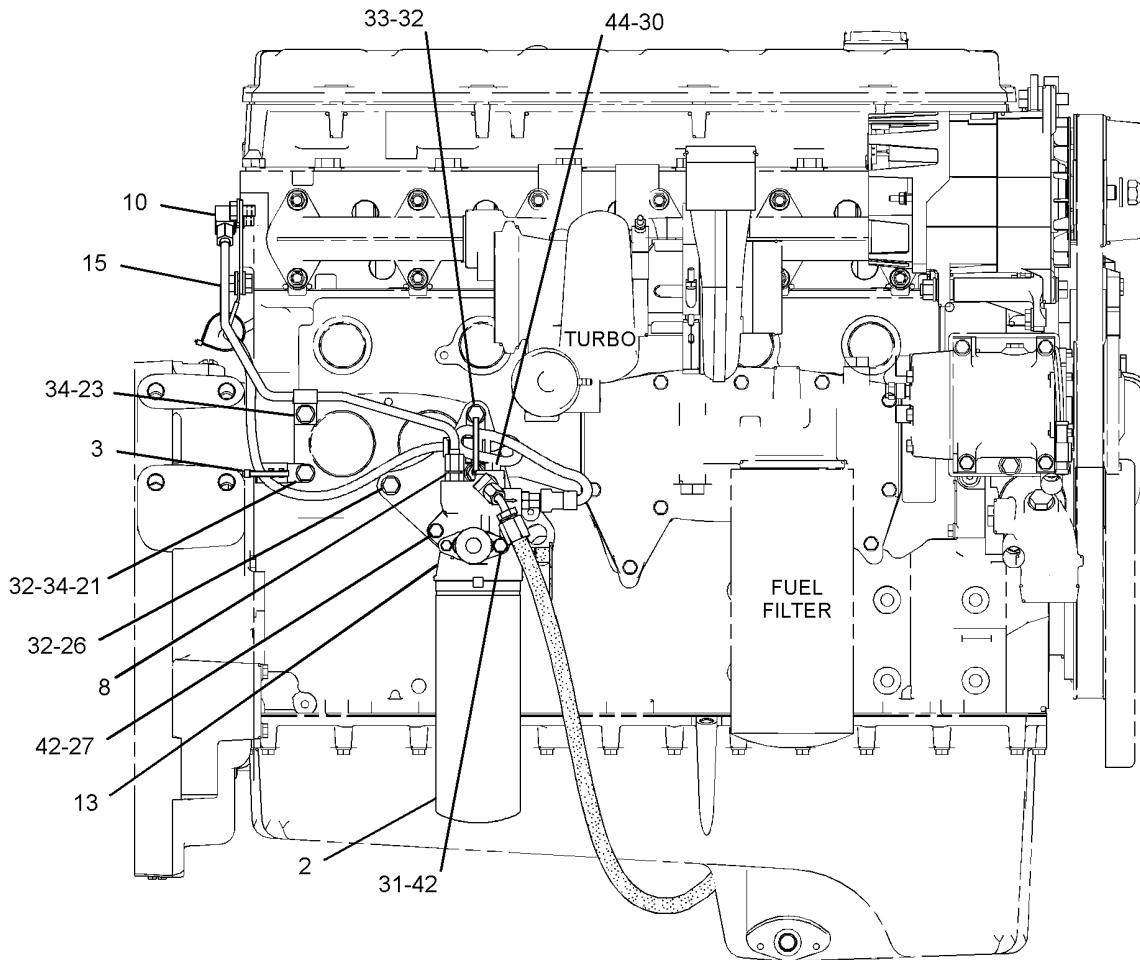
FUEL SYSTEM

252-5562 LINES GP-FUEL FILTER (contd.)

i02575027



LEFT SIDE VIEW OF ENGINE



RIGHT SIDE VIEW OF ENGINE

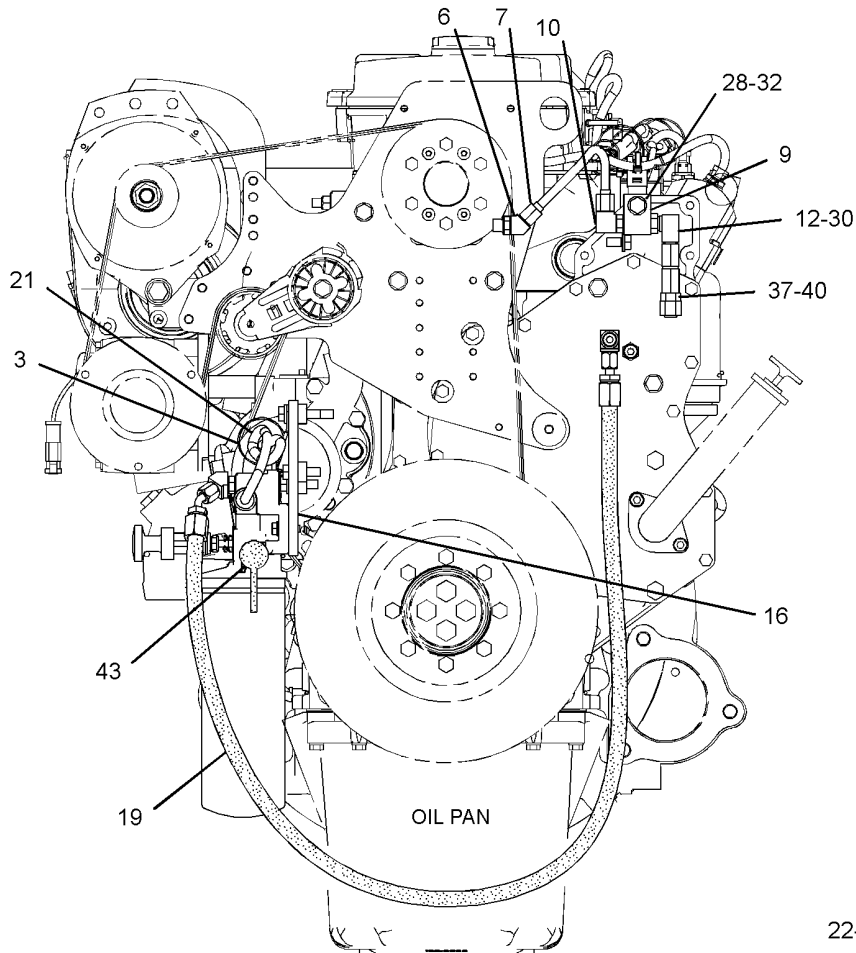
GRAPHIC #1

g01297712

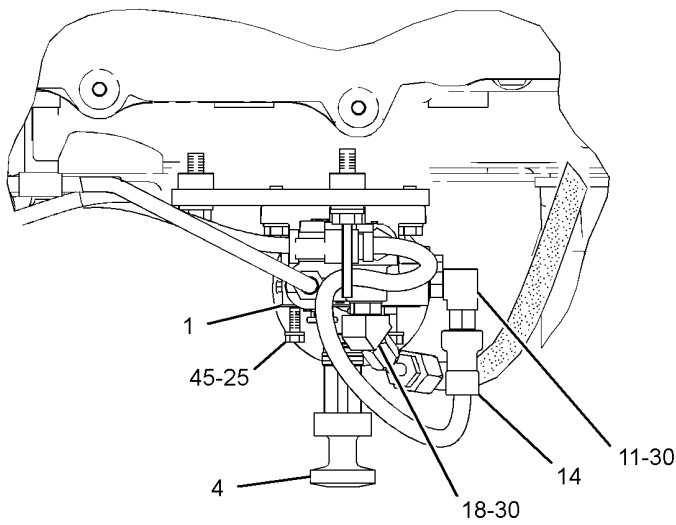
FUEL SYSTEM

252-5562 LINES GP-FUEL FILTER (contd.)

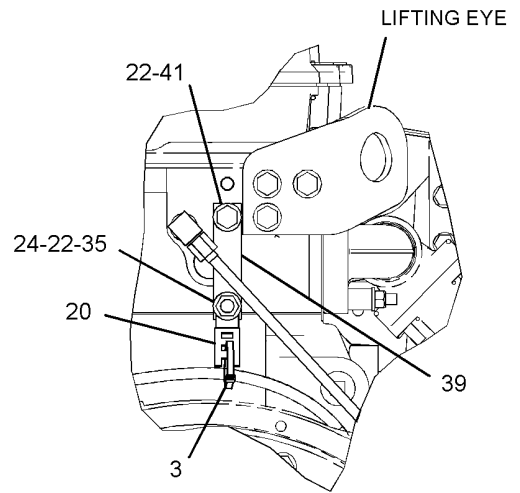
i02575027



FRONT VIEW OF ENGINE



TOP VIEW OF ENGINE



REAR VIEW OF ENGINE

GRAPHIC #2

<END>

g01297713

FUEL SYSTEM

260-6882 LINES GP-FUEL FILTER

S/N: MBD1-519

FOR USE WITH FUEL COOLED ECM, 201-8144-PAGE 291, 165-4467-PAGE 322
AN ATTACHMENT

SMCS-1261, 1274

i02332550

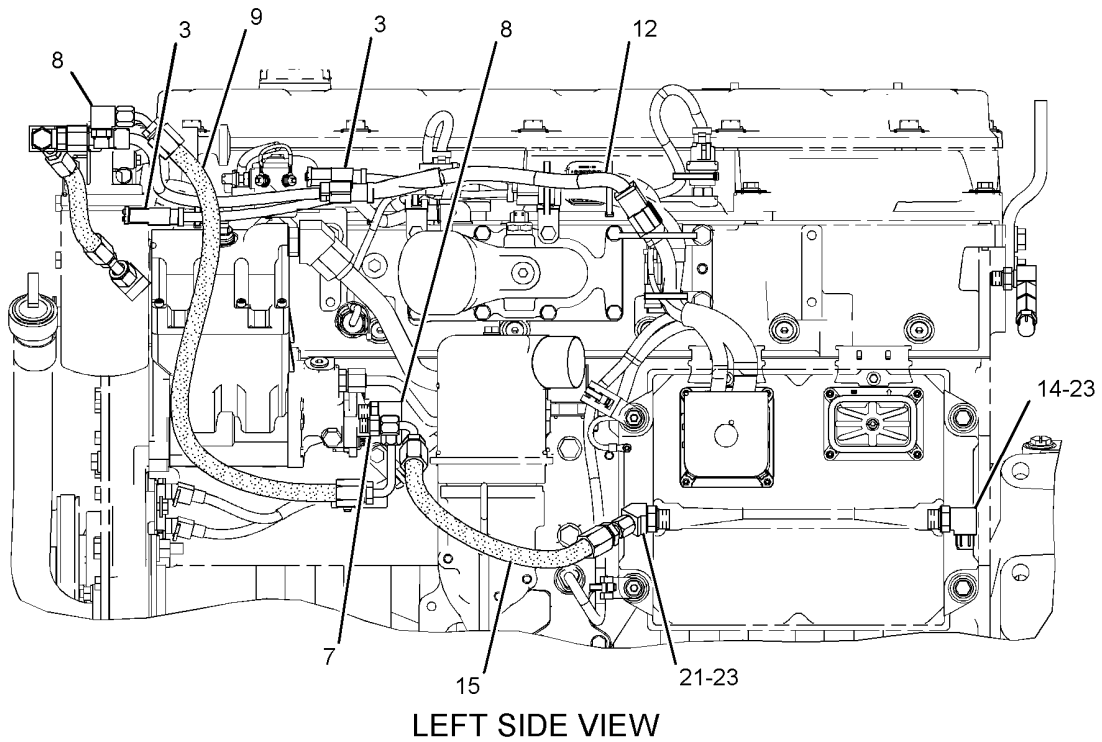
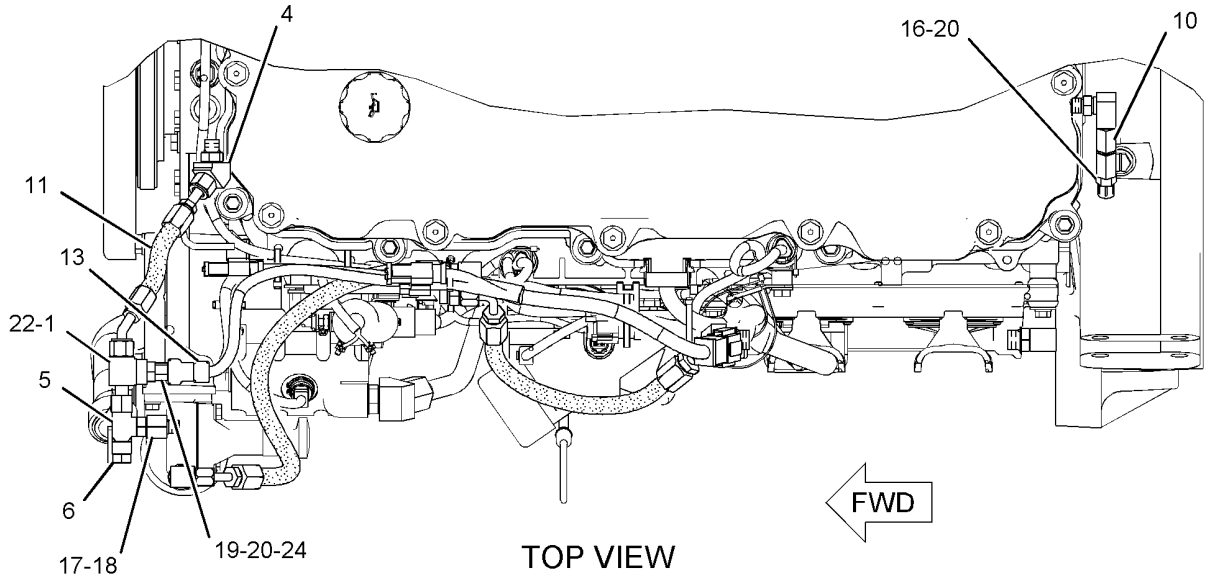
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-8902	1	TEE						
	3	1	160-8124	2	PLUG AS						
					(EACH INCLUDES)						
		1	102-8802	1	KIT-RECEPTACLE (2-PIN)						
					(INCLUDES RECEPTACLE AS AND WEDGE)						
	4	1	183-3401	1	ELBOW AS						
		1	6V-5049	1	SEAL-O-RING						
		1	8L-2779	1	SEAL-O-RING						
	5	1	183-3405	1	TEE AS						
		1	6V-5049	1	SEAL-O-RING						
		1	8L-2779	1	SEAL-O-RING						
	6	1	183-3406	1	PLUG AS						
		1	6V-5049	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-O RING						
	7	1	186-1667	1	CONNECTOR AS						
		1	6V-5049	1	SEAL-O-RING						
	8	1	191-7805	2	ELBOW AS						
					(EACH INCLUDES)						
		1	6V-5049	1	SEAL-O-RING						
I	9	1	201-8402	1	HOSE AS						
Y	10	1	205-1306	1	REGULATOR GP-FUEL PRESSURE						325
I	11	1	215-6794	1	HOSE AS						
	12	1	227-3812	1	HARNESS AS-WIRING (JUMPER) (FUEL SENSORS)						
		1	102-8803	2	KIT-RECEPTACLE (3-PIN)						
					(EACH INCLUDES RECEPTACLE AS AND WEDGE)						
		1	102-8806	1	KIT-RECEPTACLE (8-PIN)						
					(INCLUDES RECEPTACLE AS AND WEDGE)						
		1	8T-8737	1	PLUG-SEAL						
		1	155-2270	2	KIT-CONNECTING PLUG (2-PIN)						
					(EACH INCLUDES PLUG AS AND WEDGE)						
Y	13	1	239-2396	1	SENSOR GP-PRESSURE (FUEL)						373
	14	1	005-4362	1	ELBOW						
I	15	1	233-0077	1	HOSE AS						
	16	1	2R-6806	1	CONNECTOR-O-RING						
	17	1	5P-1318	1	ADAPTER						
	18	1	5P-7814	1	SEAL-O-RING						
	19	1	6V-5048	1	SEAL-O-RING						
	20	1	6V-5049	2	SEAL-O-RING						
	21	1	7D-9984	1	ELBOW						
	22	1	8L-2779	1	SEAL-O-RING						
	23	1	8L-2786	2	SEAL-O-RING						
	24	1	9X-0261	1	ADAPTER						

I-REFER TO HYDRAULIC INFORMATION SYSTEM
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

260-6882 LINES GP-FUEL FILTER (contd.)

i02332550



GRAPHIC #1

<END>

g01119847

FUEL SYSTEM

260-6882 LINES GP-FUEL FILTER

S/N: MBD520-UP

FOR USE WITH FUEL COOLED ECM, 201-8144-PAGE 291, 165-4467-PAGE 322
AN ATTACHMENT

SMCS-1261, 1274

i02597531

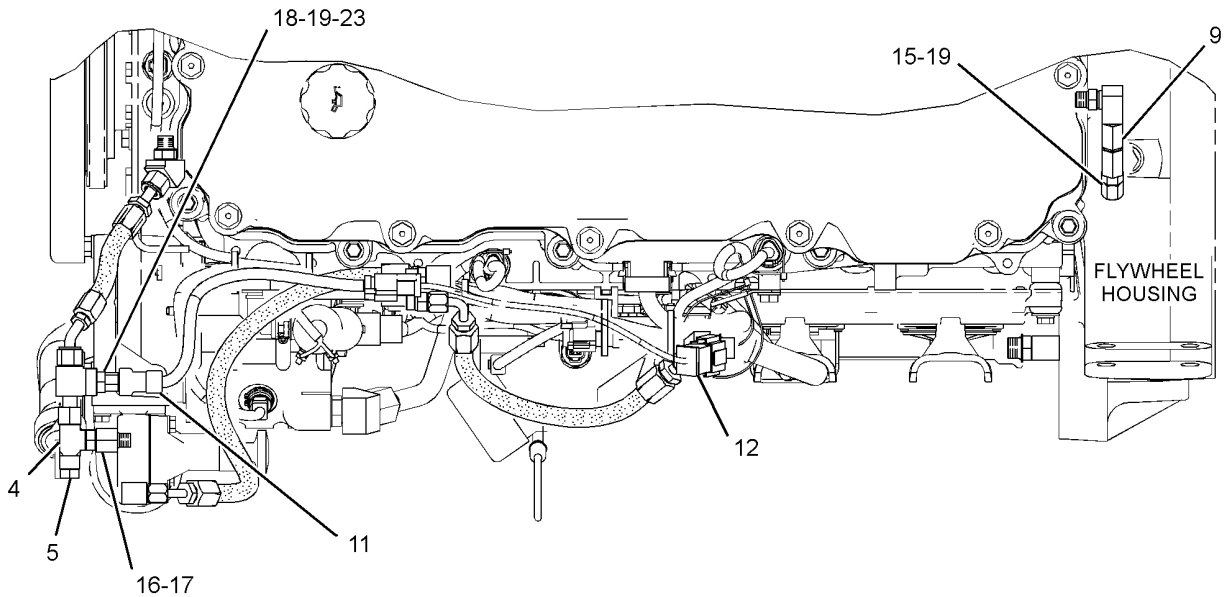
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	8T-8902	1	TEE						
	3	1	183-3401	1	ELBOW AS						
		1	6V-5049	1	SEAL-O-RING						
		1	8L-2779	1	SEAL-O-RING						
	4	1	183-3405	1	TEE AS						
		1	6V-5049	1	SEAL-O-RING						
		1	8L-2779	1	SEAL-O-RING						
	5	1	183-3406	1	PLUG AS						
		1	6V-5049	1	SEAL-O-RING						
		1	9S-4191	1	PLUG-O RING						
	6	1	186-1667	1	CONNECTOR AS						
		1	6V-5049	1	SEAL-O-RING						
	7	1	191-7805	2	ELBOW AS						
					(EACH INCLUDES)						
		1	6V-5049	1	SEAL-O-RING						
I	8	1	201-8402	1	HOSE AS						
Y	9	1	205-1306	1	REGULATOR GP-FUEL PRESSURE						325
I	10	1	215-6794	1	HOSE AS						
Y	11	1	239-2396	1	SENSOR GP-PRESSURE (FUEL)						373
C	12	1	276-3091	1	HARNES AS-SENSOR (FUEL)						
		1	3E-3370	2	RECEPTACLE AS-CONNECTOR (3-PIN)						
		1	3E-3388	1	RECEPTACLE AS-CONNECTOR (8-PIN)						
	13	1	005-4362	1	ELBOW						
I	14	1	233-0077	1	HOSE AS						
	15	1	2R-6806	1	CONNECTOR-O-RING						
	16	1	5P-1318	1	ADAPTER						
	17	1	5P-7814	1	SEAL-O-RING						
	18	1	6V-5048	1	SEAL-O-RING						
	19	1	6V-5049	2	SEAL-O-RING						
	20	1	7D-9984	1	ELBOW (45-DEG)						
	21	1	8L-2779	1	SEAL-O-RING						
	22	1	8L-2786	2	SEAL-O-RING						
	23	1	9X-0261	1	ADAPTER						

C-CHANGE FROM PREVIOUS TYPE
I-REFER TO HYDRAULIC INFORMATION SYSTEM
Y-SEPARATE ILLUSTRATION

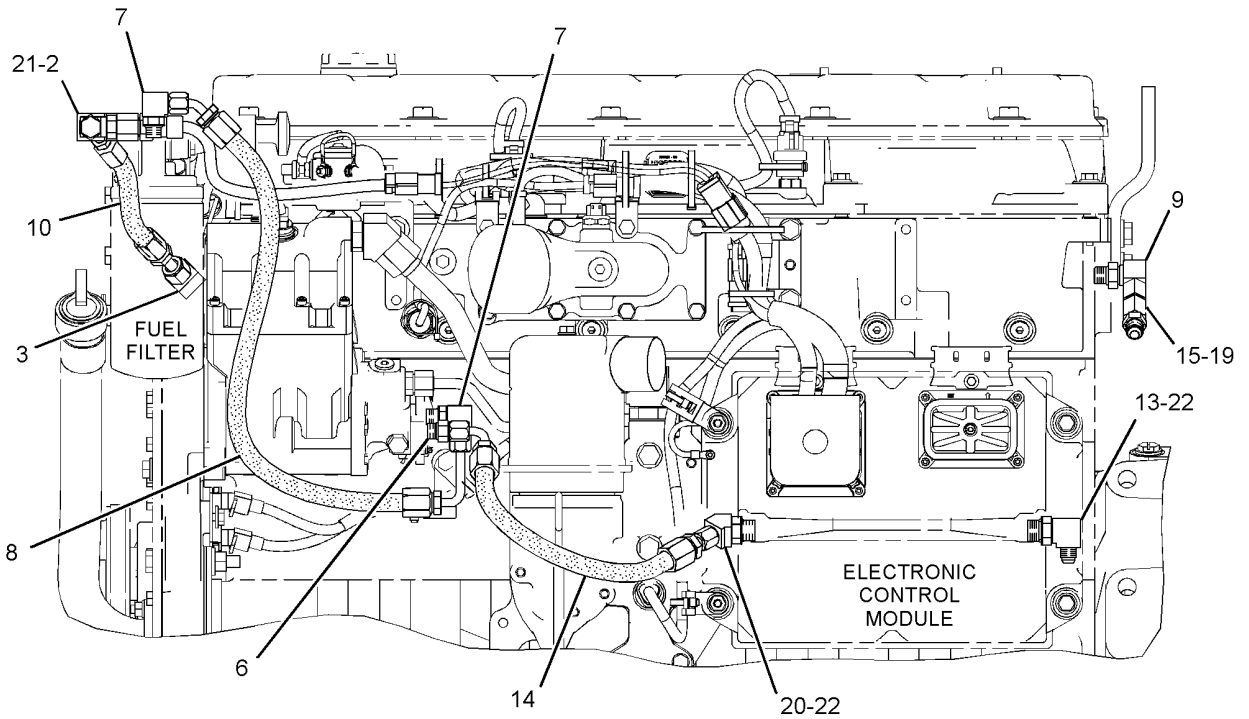
FUEL SYSTEM

260-6882 LINES GP-FUEL FILTER (contd.)

i02597531



TOP VIEW OF ENGINE



LEFT SIDE VIEW OF ENGINE

GRAPHIC #1

<END>

g01296860

FUEL SYSTEM

263-2182 LINES GP-FUEL FILTER

AN ATTACHMENT

SMCS-1261, 1274

i02460028

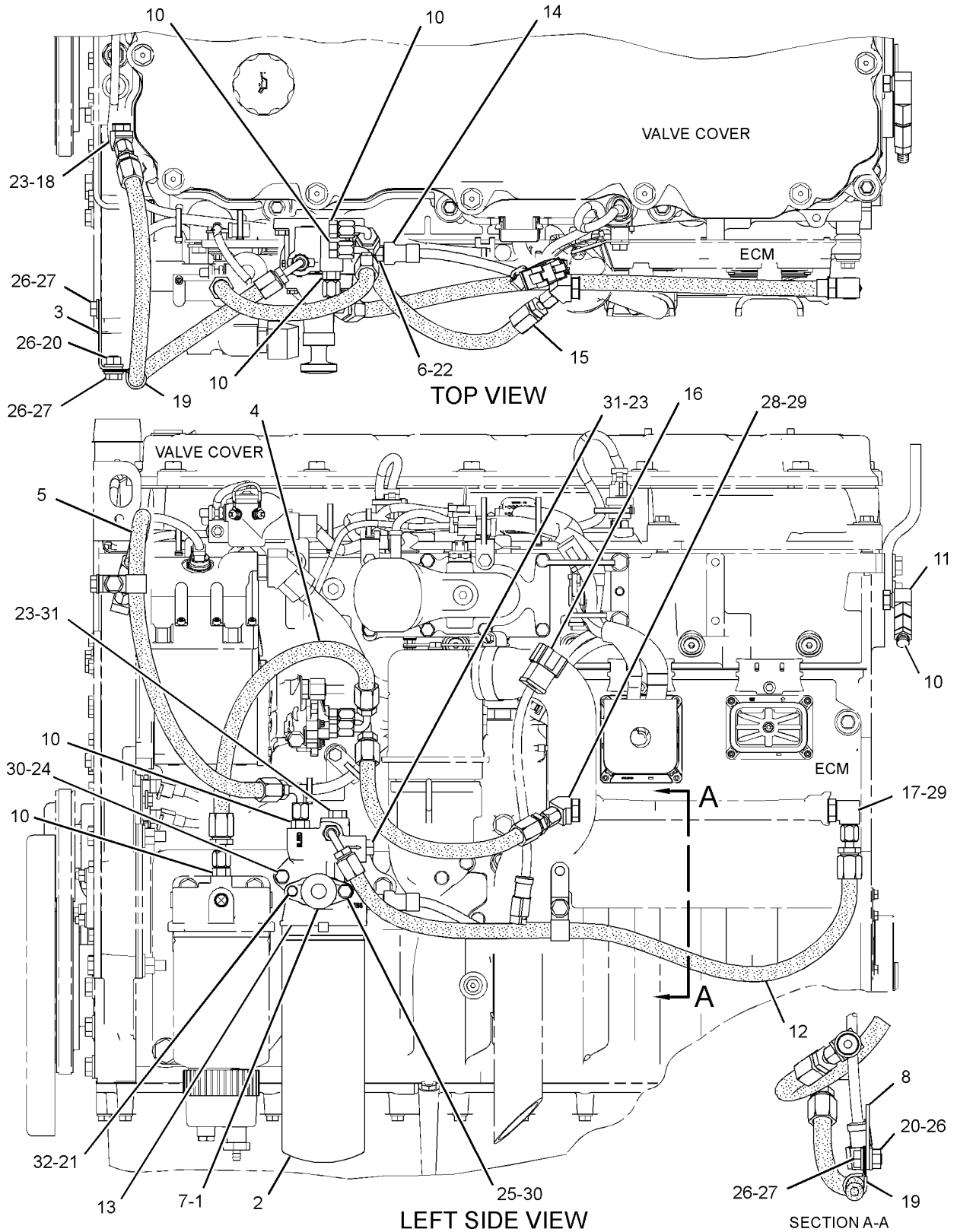
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	1P-0436	1	GASKET (FUEL PRIMING PUMP)	
	2	1	1R-0762	1	FILTER AS-FUEL (ADVANCED EFFICIENCY) (SECONDARY)	
	3	1	3S-1784	1	BRACKET	
I	4	1	4W-5964	1	HOSE AS	
I	5	1	4W-9783	1	HOSE AS	
	6	1	9X-0262	1	ADAPTER	
	7	1	105-2508	1	PUMP AS-FUEL PRIMING	
		1	7L-9061	1	SEAL-O-RING	
		1	229-3218	2	VALVE AS	
	8	1	118-7809	1	PLATE	
	10	1	186-1667	6	CONNECTOR AS (EACH INCLUDES)	
		1	2R-6806	1	CONNECTOR-O-RING	
		1	6V-5049	1	SEAL-O-RING	
Y	11	1	205-1306	1	REGULATOR GP-FUEL PRESSURE	325
	12	1	222-9840	1	HOSE AS	
	13	1	238-6790	1	BASE AS-FUEL FILTER	
		1	9S-4167	1	STUD-HOLLOW (1-14X1.47-IN)	
Y	14	1	239-2396	1	SENSOR GP-PRESSURE (FUEL)	373
I	15	1	255-1255	1	HOSE AS	
	16	1	272-5869	1	HARNESS AS-SENSOR (FUEL SENSOR)	
		1	102-8803	1	KIT-RECEPTACLE (3-PIN) (INCLUDES RECEPTACLE AS & WEDGE)	
		1	102-8806	1	KIT-RECEPTACLE (8-PIN) (INCLUDES RECEPTACLE AS & WEDGE)	
	17	1	005-4362	1	ELBOW	
	18	1	030-7942	1	ELBOW	
	19	1	067-2551	2	CLIP	
M	20	1	2Y-5829	2	NUT (M10X1.15-THD)	
M	21	1	6V-2315	1	BOLT (M6X1X35-MM)	
	22	1	6V-5048	1	SEAL-O-RING	
	23	1	6V-5049	3	SEAL-O-RING	
M	24	1	6V-5217	2	BOLT (M8X1.25X20-MM)	
M	25	1	6V-5218	1	BOLT (M8X1.25X35-MM)	
	26	1	6V-5839	5	WASHER (11X21X2.5-MM THK)	
M	27	1	6V-6317	3	BOLT (M10X1.5X20-MM)	
	28	1	7D-9984	1	ELBOW	
	29	1	8L-2786	2	SEAL-O-RING	
	30	1	9M-1974	3	WASHER-HARD (8.8X16X2-MM THK)	
	31	1	9S-4191	2	PLUG-O RING	
	32	1	9X-8267	1	WASHER (6.6X12X2-MM THK)	

I-REFER TO HYDRAULIC INFORMATION SYSTEM
M-METRIC PART
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

263-2182 LINES GP-FUEL FILTER (contd.)

i02460028



GRAPHIC #1

<END>

g01252330

FUEL SYSTEM

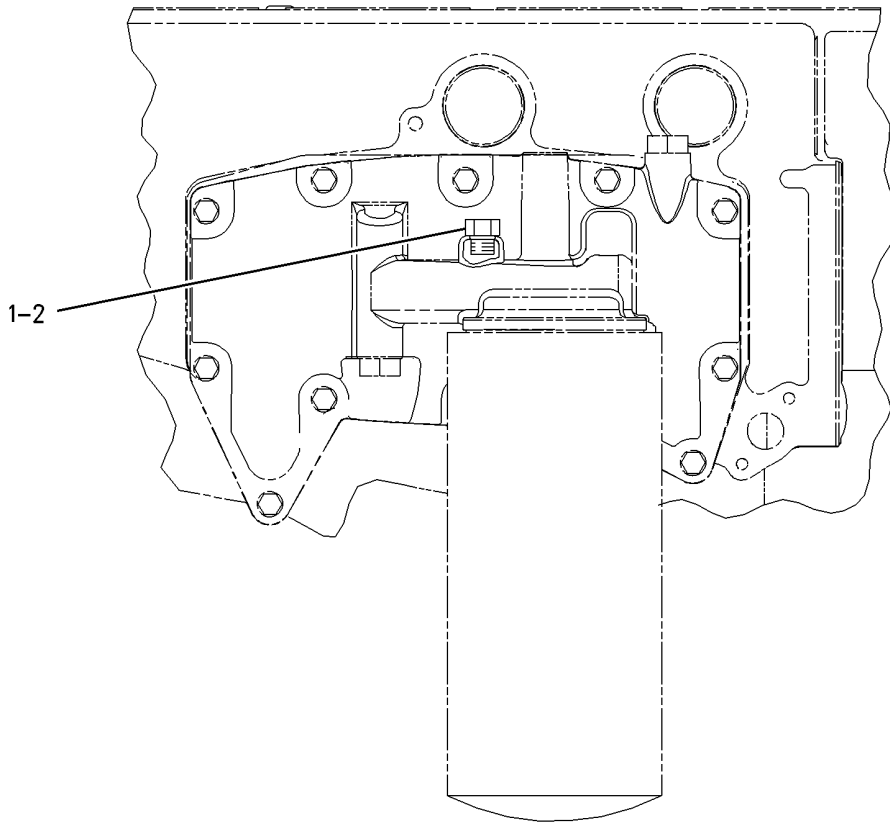
201-9779 PLUG GP-FUEL FILTER BASE

AN ATTACHMENT

SMCS-1262

i02295069

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	033-5853	1	SEAL-O-RING						
	2	1	9S-4182	1	PLUG (STRAIGHT THREAD O-RING)						



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00786619

FUEL SYSTEM

220-8233 PUMP & MTG GP-UNIT INJ HYD

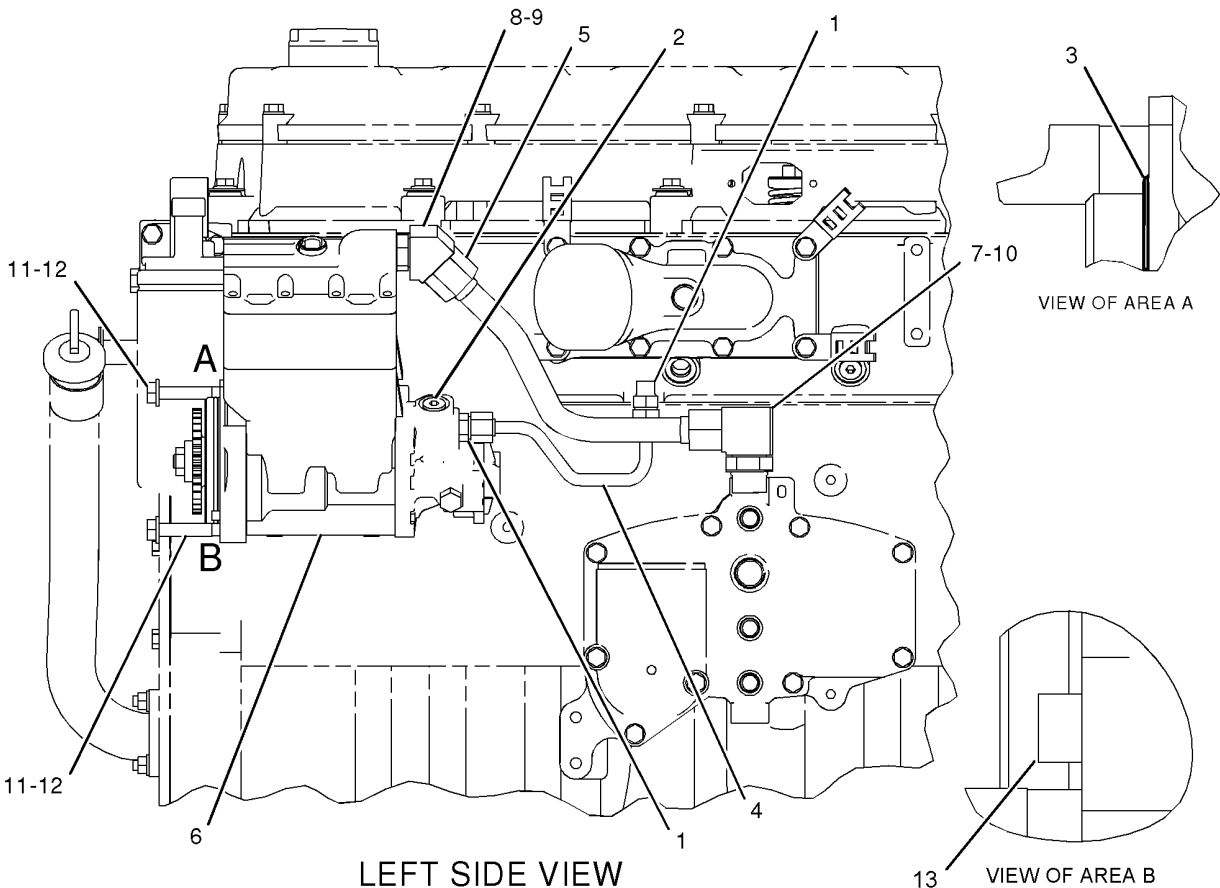
PART OF 287-3653 ENGINE AR-CORE

SMCS-1714

i02178440

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	183-3399	2	CONNECTOR AS							
					(EACH INCLUDES)							
		1	6V-8636	1	CONNECTOR							
		1	214-7568	1	SEAL-O-RING							
		1	221-3494	1	SEAL-O-RING							
	2	1	183-3407	1	PLUG AS							
		1	9S-8004	1	PLUG							
		1	153-4906	1	SEAL-O-RING							
	3	1	227-5904	1	SEAL-O-RING (UNIT INJECTOR HYD PUMP)							
	4	1	209-3171	1	TUBE AS							
	5	1	209-3172	1	TUBE AS							
YR	6	1	254-4358	1	PUMP GP-UNIT INJECTOR HYD							324
	7	1	030-7950	1	ELBOW							
	8	1	5P-3264	1	ELBOW							
	9	1	6V-4589	1	SEAL-O-RING							
	10	1	6V-5050	1	SEAL-O-RING							
	11	1	6V-5839	2	WASHER (11X21X2.5-MM THK)							
M	12	1	6V-7981	2	BOLT (M10X1.5X70-MM)							
	13	1	3E-9412	1	DOWEL							

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



GRAPHIC #1

<END>

g01022226

FUEL SYSTEM

267-3361 PUMP GP-FUEL INJECTION

PART OF 267-3362 PUMP GP-FUEL INJECTION

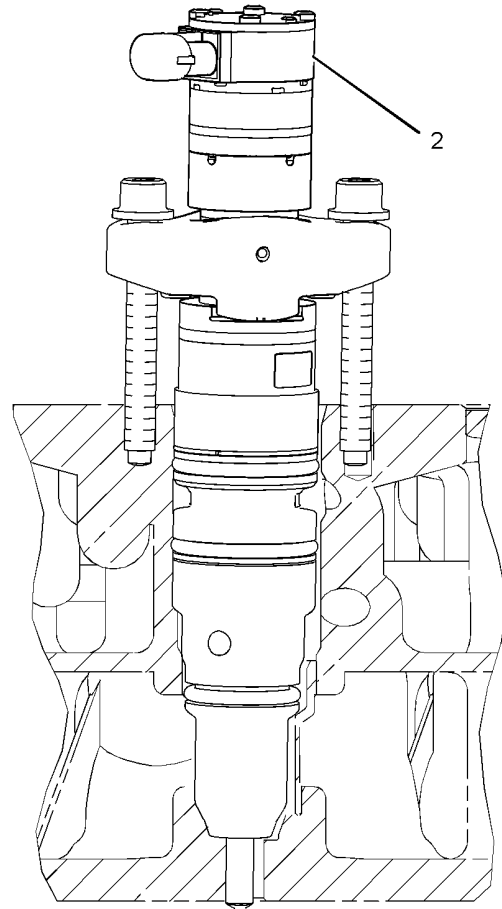
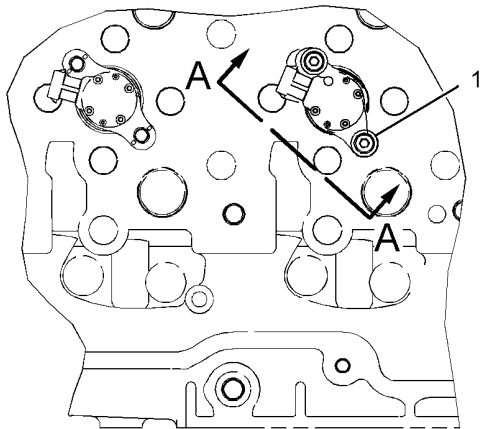
TYPE 1

SMCS-1251, 1290

i02299732

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	235-9651	2	BOLT-SOCKET HEAD (M8X1.25X65-MM)						
Y	2	1	267-3360	1	INJECTOR GP-FUEL						297

Y-SEPARATE ILLUSTRATION



VIEW A-A
ROTATED 48° CCW

GRAPHIC #1

<END>

g01147295

FUEL SYSTEM

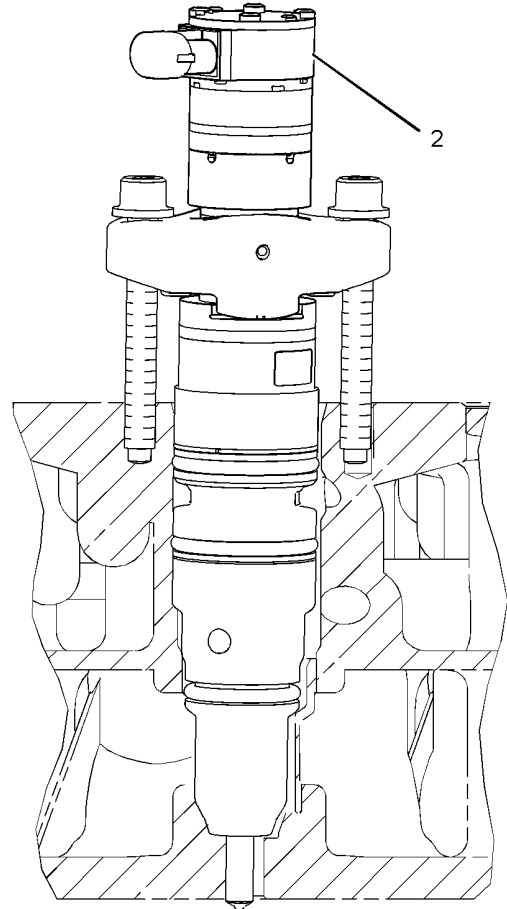
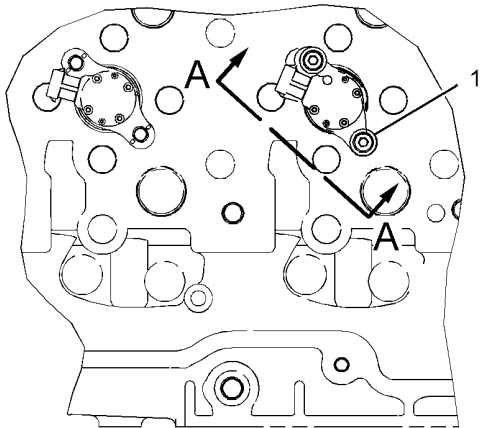
267-3361 PUMP GP-FUEL INJECTION

PART OF 267-3362 PUMP GP-FUEL INJECTION
TYPE 2

SMCS-1251, 1290

i02571515

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	235-9651	2	BOLT-SOCKET HEAD (M8X1.25X65-MM)						
CY	2	1	293-4072	1	INJECTOR GP-FUEL						299
C-CHANGE FROM PREVIOUS TYPE Y-SEPARATE ILLUSTRATION											



VIEW A-A
ROTATED 48° CCW

GRAPHIC #1

<END>

g01147295

FUEL SYSTEM

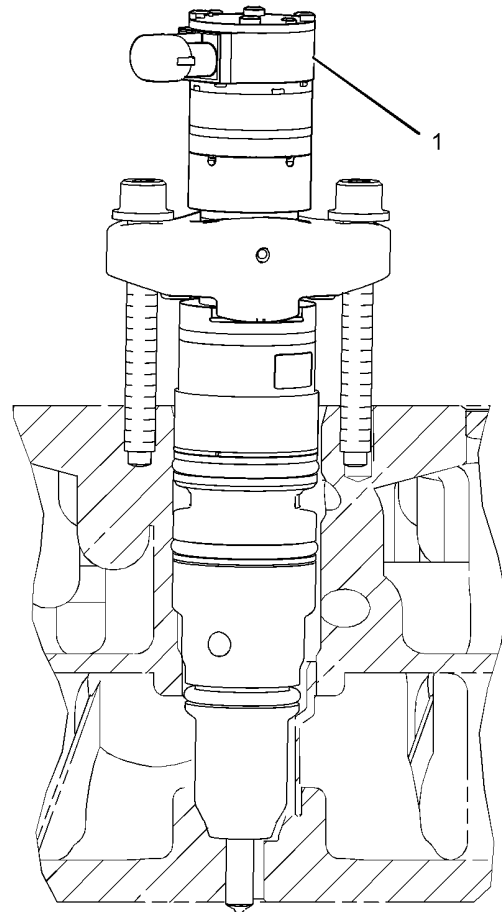
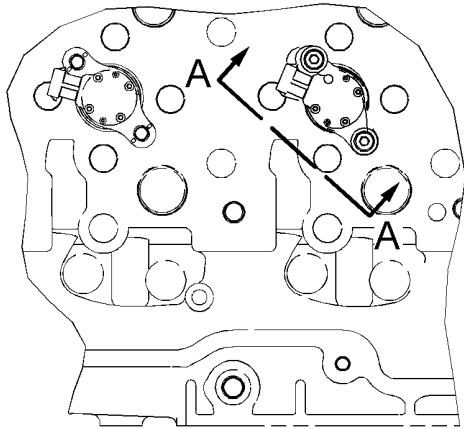
267-3362 PUMP GP-FUEL INJECTION

SMCS-1251, 1290

i02299731

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	267-3361	6	PUMP GP-FUEL INJECTION						316

Y-SEPARATE ILLUSTRATION



VIEW A-A
ROTATED 48° CCW

GRAPHIC #1

<END>

g01147347

FUEL SYSTEM

267-9718 PUMP GP-FUEL INJECTION

PART OF 267-9723 PUMP GP-FUEL INJECTION

FOR USE WITH 2.2 SF INJECTOR

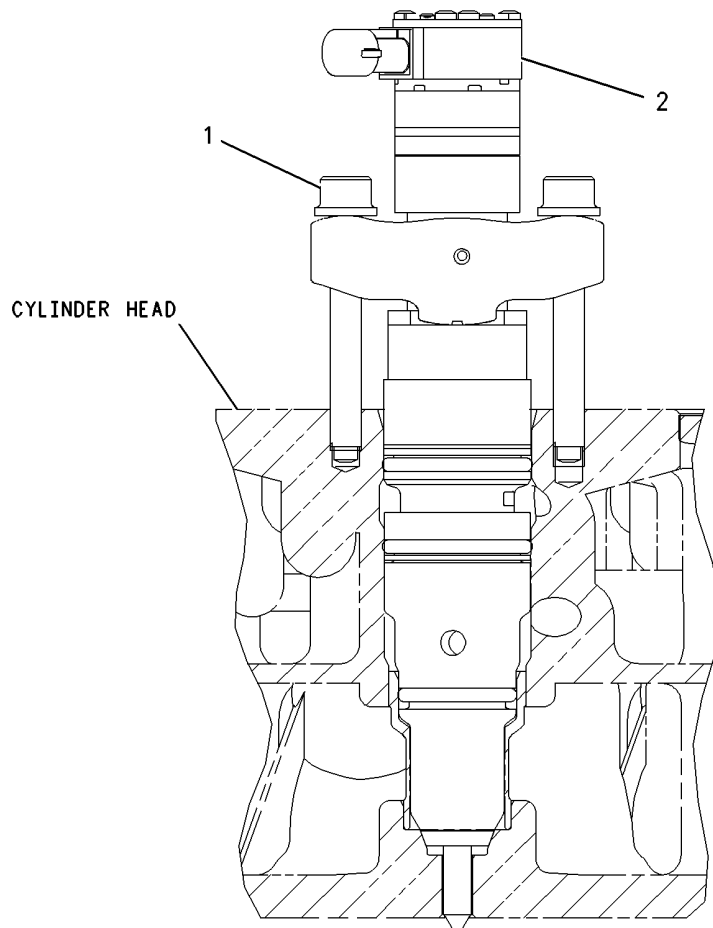
TYPE 1

SMCS-1251, 1290

i02282981

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	235-9651	2	BOLT-SOCKET HEAD (M8X1.25X65-MM)						
Y	2	1	267-9711	1	INJECTOR GP-FUEL						298

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00920949

FUEL SYSTEM

267-9718 PUMP GP-FUEL INJECTION

PART OF 267-9723 PUMP GP-FUEL INJECTION

FOR USE WITH 2.2 SF INJECTOR

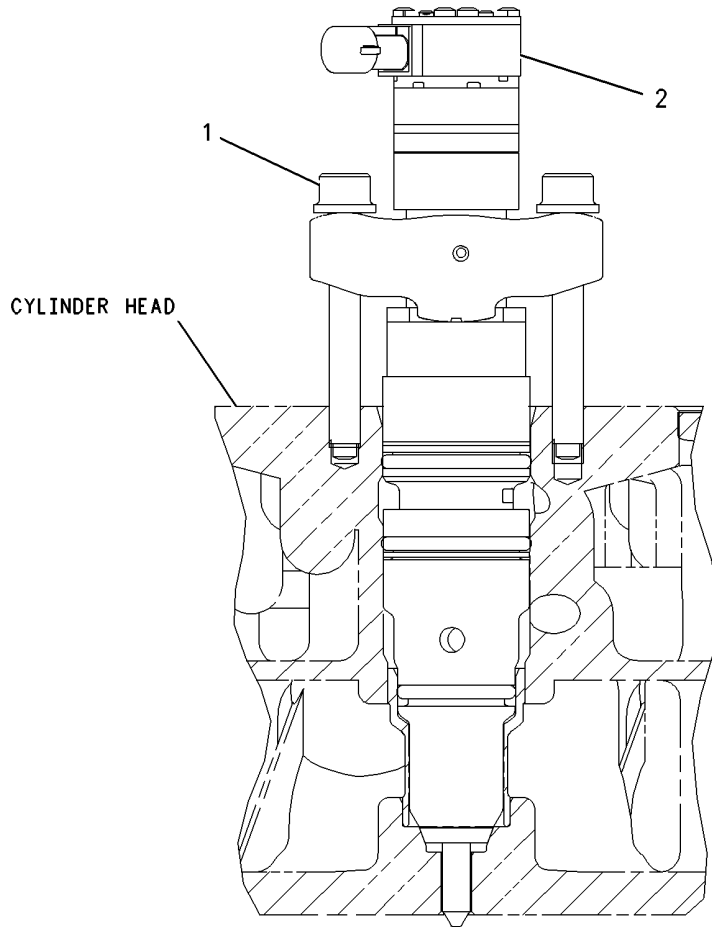
TYPE 2

SMCS-1251, 1290

i02571246

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE
						PAGE
	1	1	235-9651	2	BOLT-SOCKET HEAD (M8X1.25X65-MM)	
CY	2	1	293-4073	1	INJECTOR GP-FUEL	300

C-CHANGE FROM PREVIOUS TYPE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00920949

FUEL SYSTEM

267-9723 PUMP GP-FUEL INJECTION

PART OF 287-3653 ENGINE AR-CORE

SMCS-1251, 1290

i02282938

NOTE	PART NUMBER	QTY	PART NAME						SEE
			1	2	3	4	5	6 (PRODUCT LEVEL)	PAGE
Y	267-9718	6	PUMP GP-FUEL INJECTION						319
Y-SEPARATE ILLUSTRATION									

<END>

FUEL SYSTEM

165-4467 PUMP GP-FUEL PRIMING

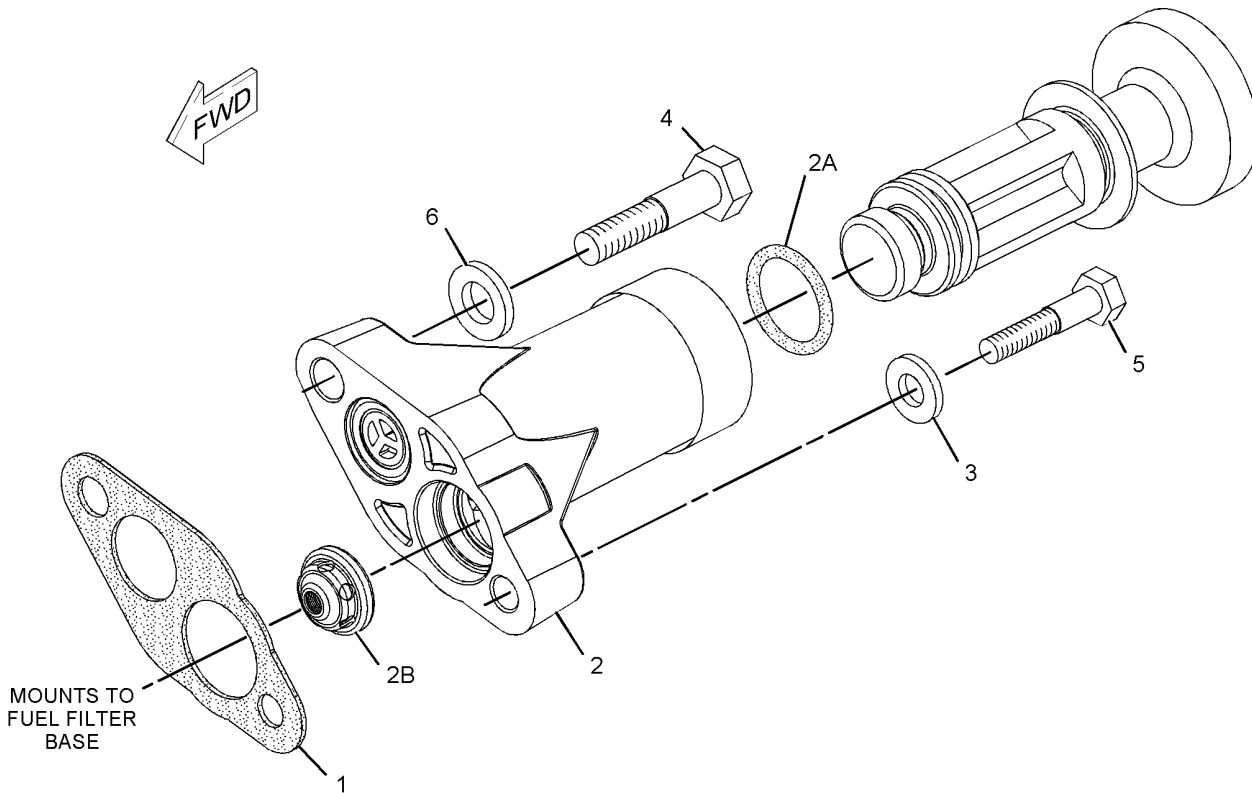
AN ATTACHMENT

SMCS-1258

i02178859

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1P-0436	1	GASKET (FUEL PRIMING PUMP)						
	2	1	105-2508	1	PUMP AS-FUEL PRIMING						
	2A		7L-9061	1	SEAL-O-RING						
	2B		229-3218	2	VALVE AS						
	3	1	5P-0537	1	WASHER-HARD (7.2X14.5X2-MM THK)						
M	4	1	6V-5218	1	BOLT (M8X1.25X35-MM)						
M	5	1	8T-0640	1	BOLT (M6X1X30-MM)						
	6	1	9M-1974	1	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01103345

FUEL SYSTEM

217-8342 PUMP GP-FUEL PRM & SEC FILTER

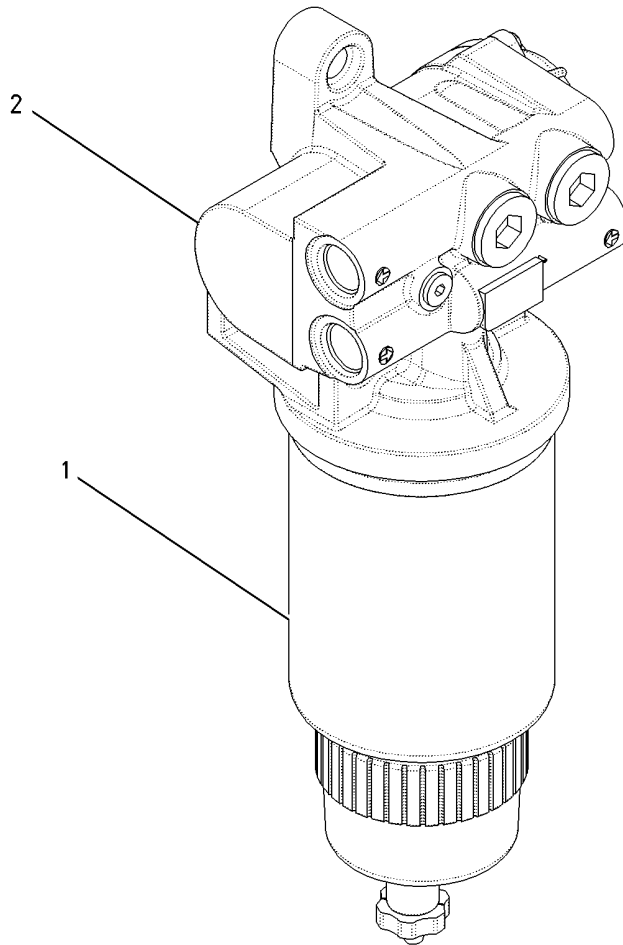
AN ATTACHMENT

SMCS-1258, 1261

i02443683

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	212-9580	1	FILTER GP-WATER SEP & FUEL						294
	2	1	217-8339	1	BASE AS-FUEL FILTER						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00929334

FUEL SYSTEM

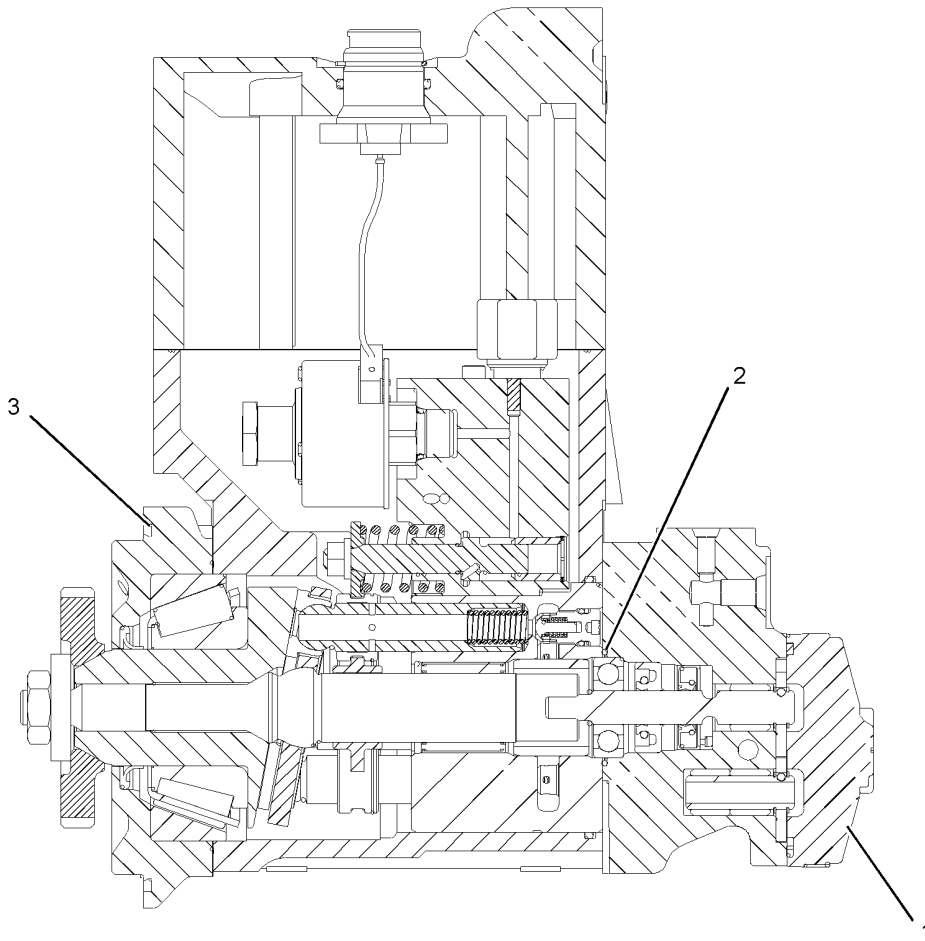
254-4358 PUMP GP-UNIT INJECTOR HYD*R

PART OF 220-8233 PUMP & MTG GP-UNIT INJ HYD

SMCS-1714

i02380918

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	178-2357	1	PUMP GP-FUEL TRANSFER						
	2	1	179-8128	1	SEAL-O-RING (FUEL TRANSFER PUMP)						
	3	1	227-5904	1	SEAL-O-RING (UNIT INJECTOR HYD PUMP)						



GRAPHIC #1

<END>

g01190308

FUEL SYSTEM

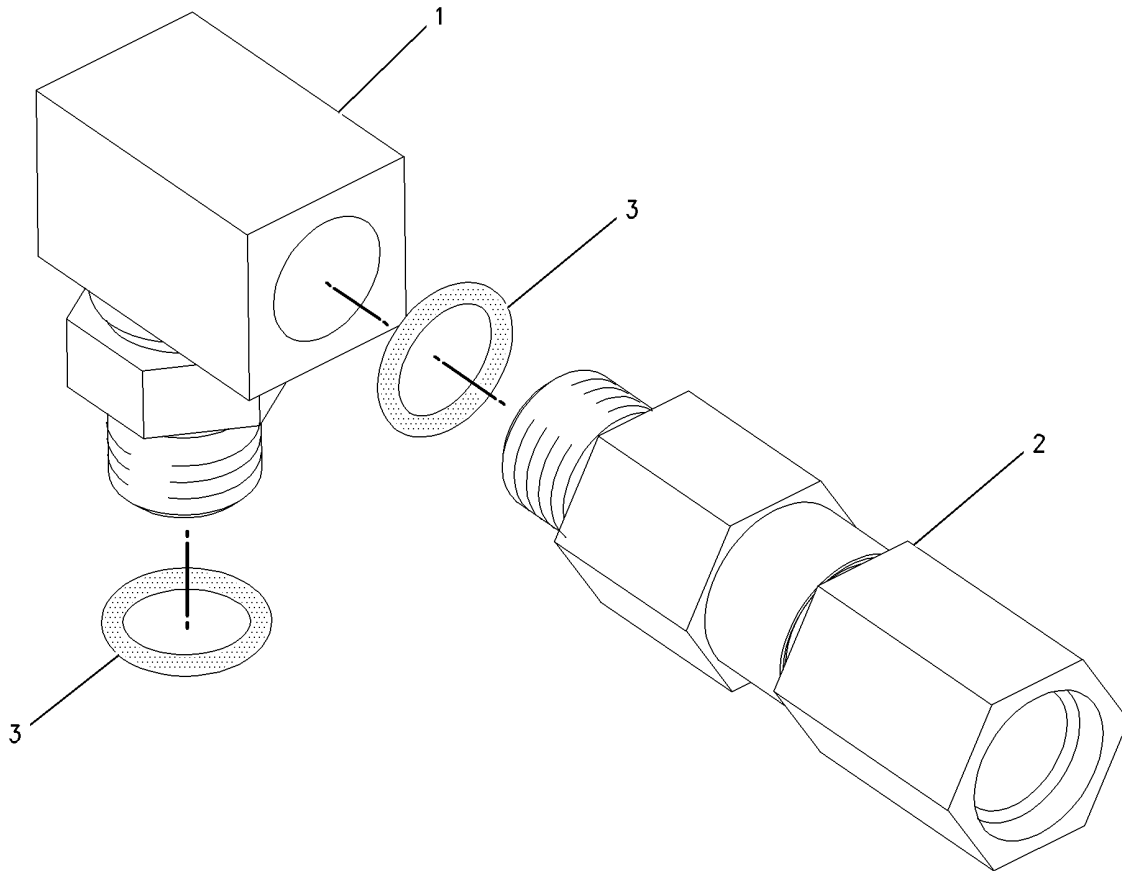
205-1306 REGULATOR GP-FUEL PRESSURE

PART OF 260-6882, 263-2182 LINES GP-FUEL FILTER
AN ATTACHMENT

SMCS-1270

i02564922

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	229-8870	1	REGULATOR AS (FUEL PRESSURE)						
	3	1	6V-5049	2	SEAL-O-RING						



GRAPHIC #1

<END>

g00822125

ELECTRICAL AND STARTING SYSTEM

5N-5692 ALTERNATOR GP-CHARGING*R

24-VOLT, 45-AMPERE
AN ATTACHMENT

SMCS-1405

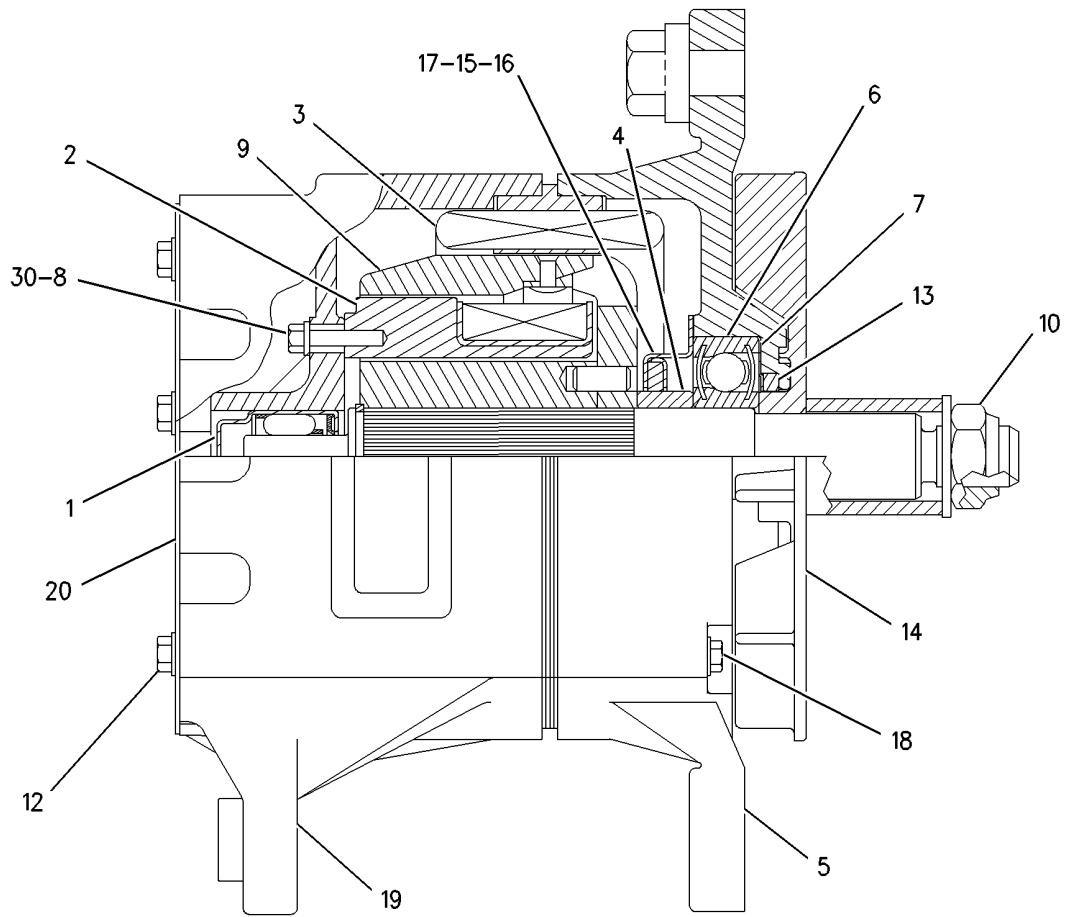
i02023871

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 (10X24X19.05-MM)	
	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 (10-24X0.5-IN)	
	13	1	9L-2139	1	WASHER-FELT (1.31X1.68X0.125-IN THK)	
	14	1	3E-5454	1	FAN-ALTERNATOR	
	15	1	9S-2437	3	SCREW-TAPPING (10-24X19.05-MM)	
	16	1	9L-2137	1	RETAINER AS	
	17	1,2	8F-1434	4	LOCKWASHER	
	18	1	7N-9024	4	BOLT (M10X24X63.5-MM)	
	19	1	7N-7805	1	HOUSING	
	20	1	7N-7809	1	PLATE	
	21	2	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)	
	22	2	9B-7233	6	LOCKWASHER	
	23	2	9L-6770	1	CAP	
	25	2	6N-1872	2	SCREW AS (8-32X1.25-IN)	
	26	2	7N-9023	2	SCREW AS (8-32X26.9-MM)	
	27	2	3T-6354	1	REGULATOR AS-VOLTAGE (24-VOLT) (ALTERNATOR)	
	28	2	6V-8377	4	NUT (8-32-THD)	
	29	2	7N-7811	1	CONNECTOR	
	30	2	8T-0328	4	WASHER-HARD (5.5X10X1-MM THK)	
	31	2	9N-1202	1	DIODE AS	
	33	2	7N-9021	1	SCREW AS (8-32X1.34-IN)	
		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 (8-32X11.13-MM)	
	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-OUTPUT TERMINAL (ALTERNATOR) INCLUDES INSULATOR, SCREWS, WASHERS, LOCKWASHERS, NUTS AND ADAPTERS	
			7N-7808	1	KIT-RELAY TERMINAL (ALTERNATOR) INCLUDES STUDS, BUSHINGS, WASHERS AND NUT ASSEMBLY	

ELECTRICAL AND STARTING SYSTEM

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

i02023871



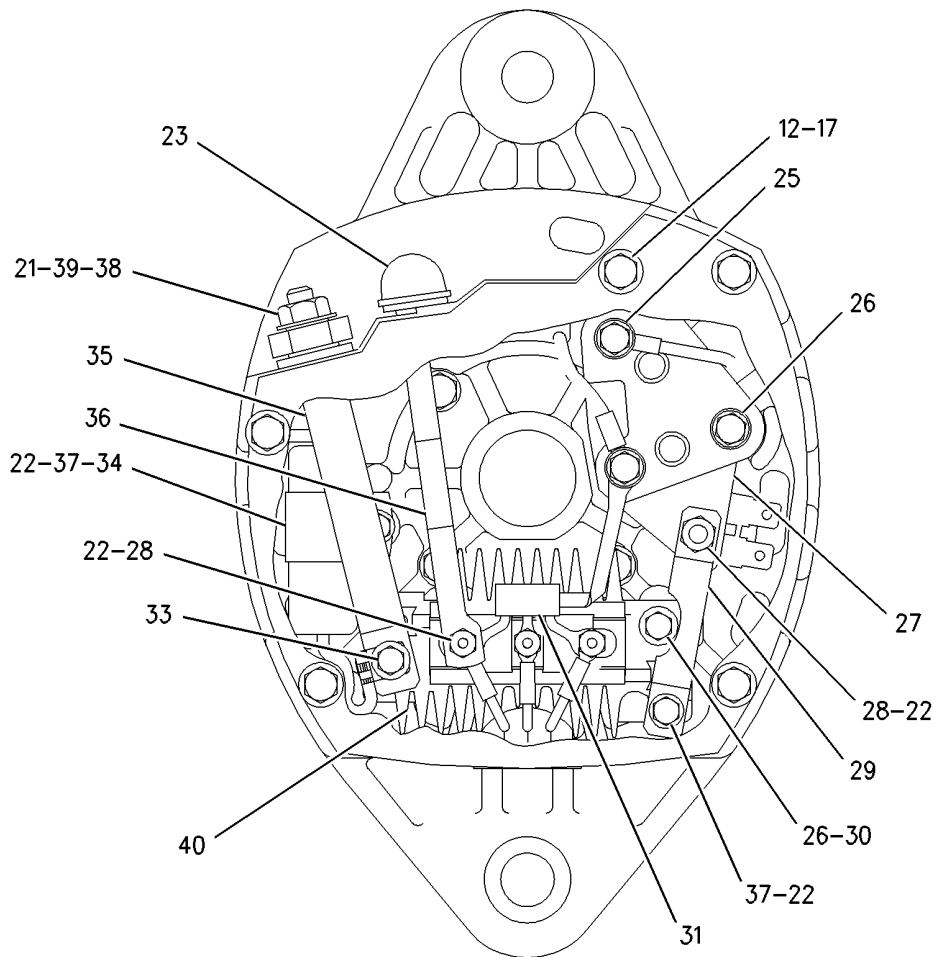
GRAPHIC #1

g00797422

ELECTRICAL AND STARTING SYSTEM

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

i02023871



GRAPHIC #2

<END>

g00825009

ELECTRICAL AND STARTING SYSTEM

117-1379 ALTERNATOR GP-CHARGING*R

12-VOLT, 130-AMPERE

PART OF 188-3506 ALTERNATOR GP-CHARGING
AN ATTACHMENT

SMCS-1405

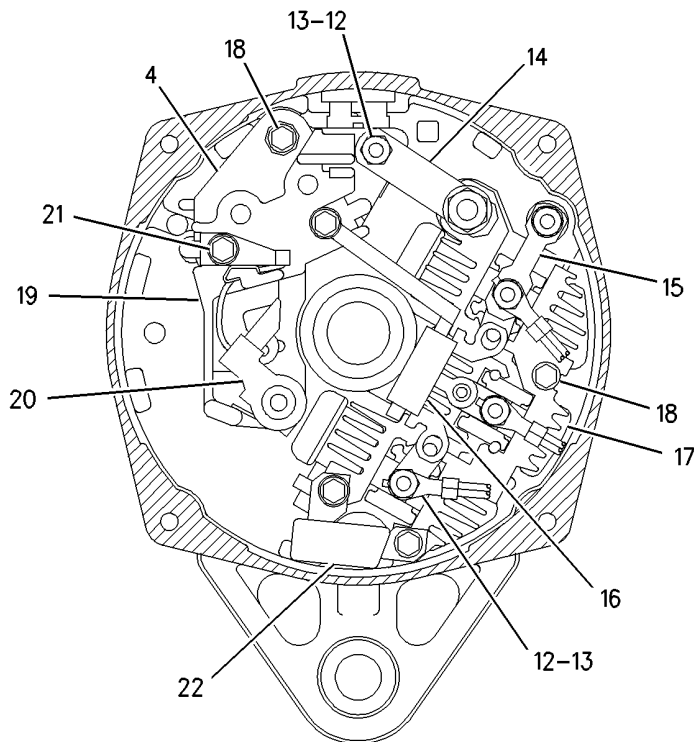
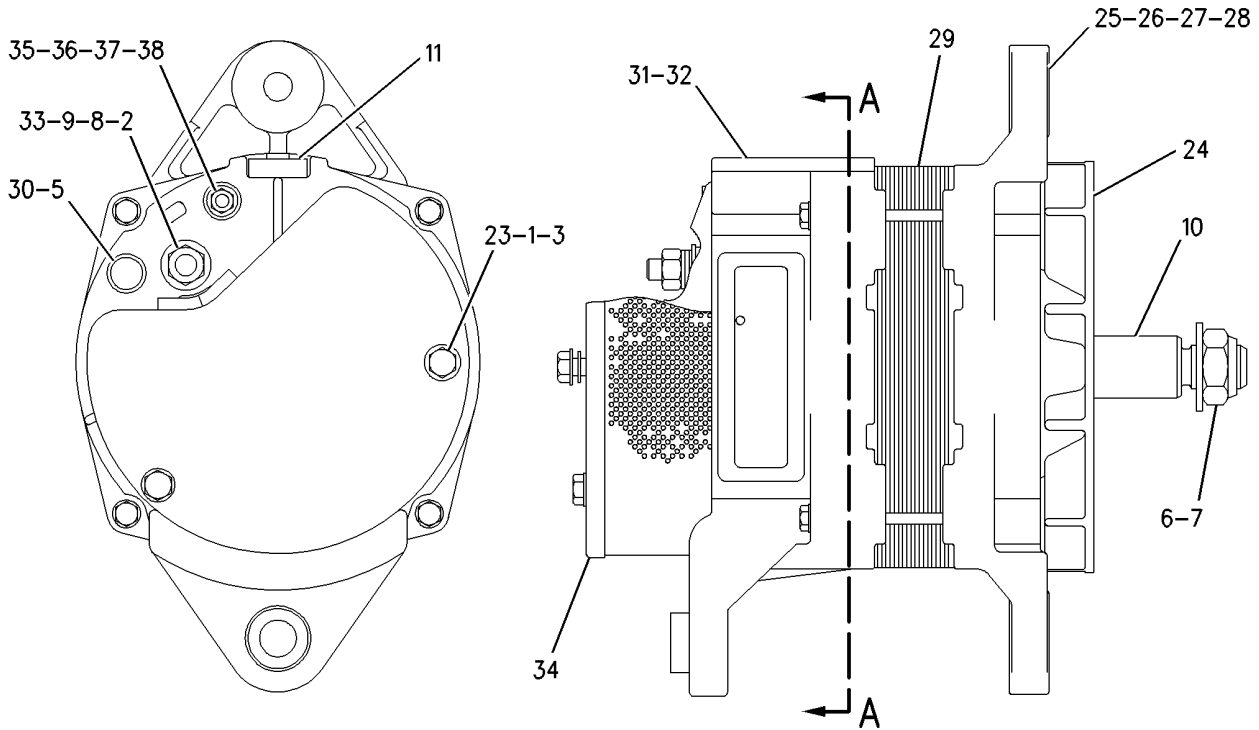
i02019524

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		
	1	1	1H-3244	1	LOCKWASHER								
	2	1	6V-8189	1	NUT (5/16-18-THD)								
	3	1	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)								
	4	1	3E-5451	1	REGULATOR AS (12-VOLT) (ALTERNATOR)								
	5	1	9L-6770	1	CAP (DUST)								
	6	1	2K-4821	1	LOCKNUT (5/8-18-THD)								
	7	1	7F-7621	1	WASHER (0.635X1.25X0.09-IN THK)								
	8	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM 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 (8-32X26.9-MM)								
	19	1	3E-5460	1	HOLDER AS-BRUSH (ALTERNATOR)								
	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 (10-24X0.5-IN)								
	29	1	100-3686	1	STATOR AS-ALTERNATOR								
	30	1	132-1230	1	KIT-ALTERNATOR TERMINAL (RELAY)								
	31	1	132-1224	1	FRAME AS-ALTERNATOR								
	32	1	5P-6920	1	BEARING-ROLLER								
	33	1	3E-5462	1	KIT-ALTERNATOR TERMINAL (BATTERY)								
					(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 (INDICATOR LIGHT)								
					(INCLUDES BUSHING, WASHER, NUT AND TERMINAL)								
	36	1	4B-2047	1	NUT (10-24-THD)								
	37	1	8T-0328	1	WASHER-HARD (5.5X10X1-MM THK)								
	38	1	8F-1434	1	LOCKWASHER								

ELECTRICAL AND STARTING SYSTEM

117-1379 ALTERNATOR GP-CHARGING (contd.)

i02019524



SECTION A-A

GRAPHIC #1

<END>

g00796770

ELECTRICAL AND STARTING SYSTEM

169-3345 ALTERNATOR GP-CHARGING*R

24-VOLT, 50-AMPERE
AN ATTACHMENT

SMCS-1405

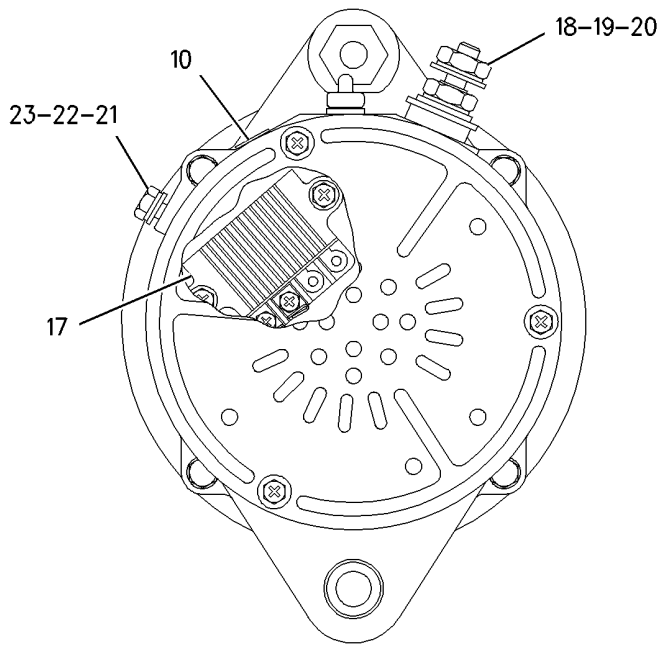
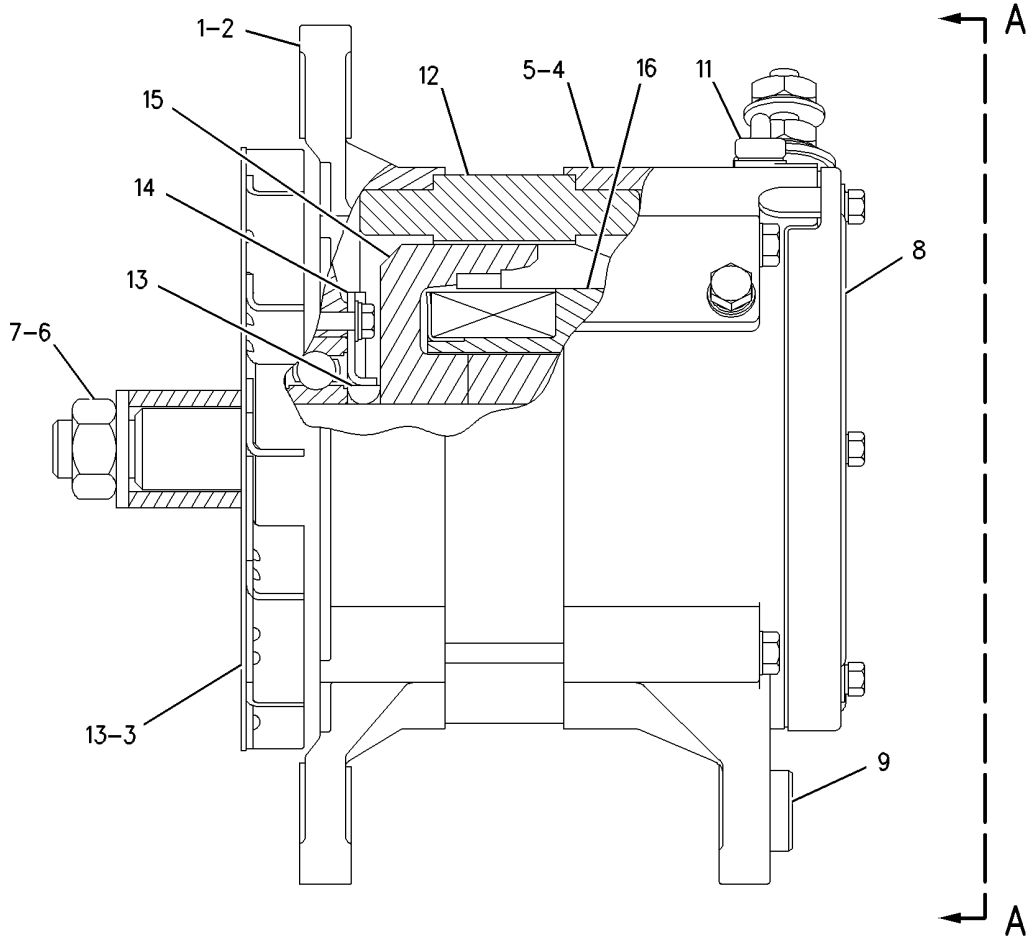
i02397775

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-2653	1	FRAME						
	2	1	185-2652	1	FRAME AS						
	3	1	185-2639	1	FAN AS						
	4	1	185-2640	1	FRAME AS						
	5	1	185-2645	1	FRAME						
	6	1	2K-4821	1	LOCKNUT (5/8-18-THD)						
	7	1	5P-8247	1	WASHER-HARD (17X32X3.5-MM THK)						
	8	1	185-2651	1	COVER						
	9	1	185-2646	1	BUSHING						
	10	1	185-2647	1	GROMMET						
	11	1	9L-6770	1	CAP						
	12	1	190-0065	1	STATOR AS-ALTERNATOR						
	13	1	185-2638	2	COLLAR						
	14	1	185-2654	1	PLATE						
	15	1	185-2650	1	ROTOR AS						
	16	1	185-2644	1	COIL AS						
	17	1	185-2648	1	REGULATOR AS-VOLTAGE (24-VOLT) (ALTERNATOR)						
	18	1	6V-8189	1	NUT (5/16-18-THD)						
	19	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
	20	1	3F-9556	1	LOCKWASHER						
	21	1	5S-7349	1	BOLT (1/4-20X0.5-IN)						
	22	1	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)						
	23	1	1H-3244	1	LOCKWASHER						
					AVAILABLE REPAIR KIT(S):						
			185-2655	1	KIT-BEARING (ALTERNATOR) (INCLUDES BEARINGS)						
			199-8436	1	KIT-TERMINAL (ALTERNATOR) (INCLUDES HOLDER AS, PLATE, INSULATOR, PIN, BOLT KITS, GROMMET AND NUT)						
			199-7891	1	KIT-TERMINAL (ALTERNATOR) (INCLUDES INSULATORS, WASHERS AND NUTS)						
			185-2658	1	KIT-HARDWARE (ALTERNATOR) (INCLUDES BOLT KITS)						

ELECTRICAL AND STARTING SYSTEM

169-3345 ALTERNATOR GP-CHARGING (contd.)

i02397775



VIEW A-A

GRAPHIC #1

<END>

g00724069

ELECTRICAL AND STARTING SYSTEM

177-9953 ALTERNATOR GP-CHARGING*R

24-VOLT, 80-AMPERE
AN ATTACHMENT

SMCS-1405

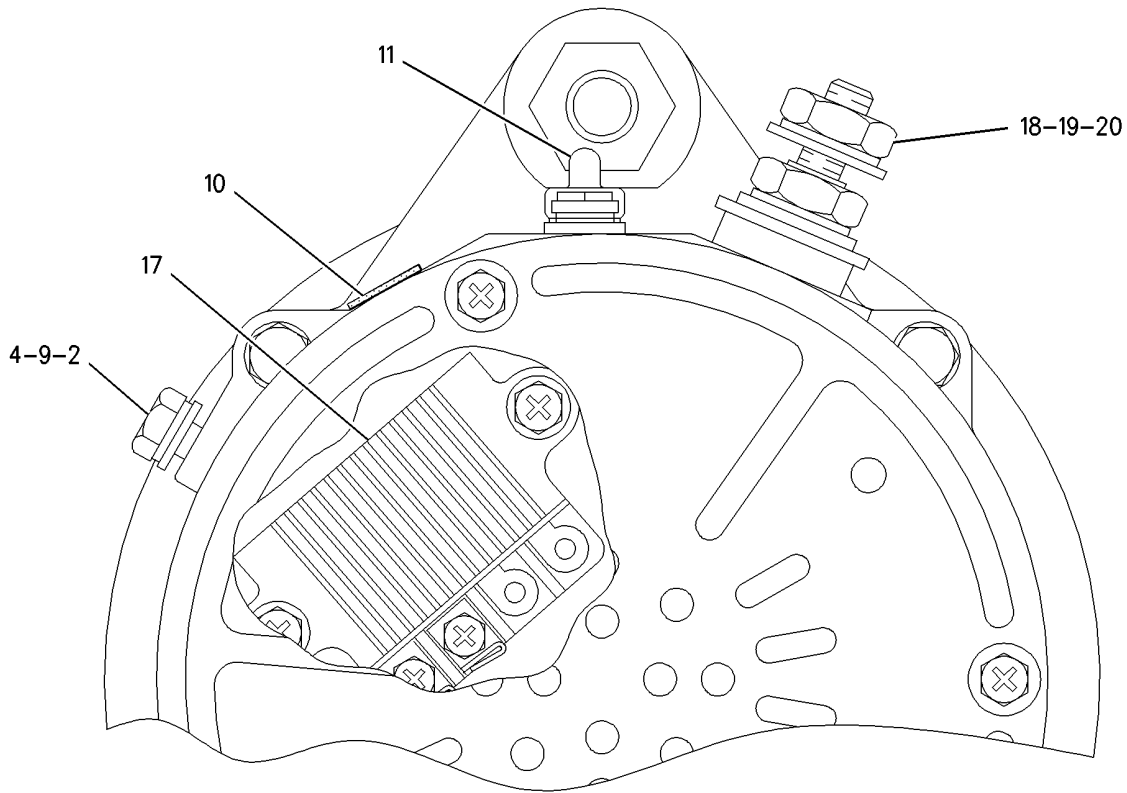
i02603768

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-2653	1	FRAME						
	2	1	5S-7349	1	BOLT (1/4-20X0.5-IN)						
	3	1	185-2639	1	FAN AS						
	4	1	1H-3244	1	LOCKWASHER						
	5	1	185-2645	1	FRAME						
	6	1	2K-4821	1	LOCKNUT (5/8-18-THD)						
	7	1	5P-8247	1	WASHER-HARD (17X32X3.5-MM THK)						
	8	1	185-2651	1	COVER						
	9	1	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)						
	10	1	185-2647	1	GROMMET						
	11	1	9L-6770	1	CAP						
	12	1	185-2643	1	STATOR AS						
	13	1	185-2638	2	COLLAR						
	14	1	185-2654	1	PLATE						
	15	1	185-2650	1	ROTOR AS						
	16	1	185-2644	1	COIL AS						
	17	1	185-2648	1	REGULATOR AS-VOLTAGE (24-VOLT) (ALTERNATOR)						
J	18	1	6V-8189	1	NUT (5/16-18-THD)						
J	19	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
J	20	1	3F-9556	1	LOCKWASHER						
					AVAILABLE REPAIR KIT(S):						
J			199-7891		KIT-TERMINAL (ALTERNATOR)						
					(INCLUDES INSULATORS, WASHERS, NUT, STEP NUT)						
			185-2655		KIT-BEARING (ALTERNATOR)						
					(INCLUDES 3 BEARINGS)						
			199-8436		KIT-TERMINAL (ALTERNATOR)						
					(INCLUDES HOLDER AS, PLATE, INSULATOR, PIN, BOLT, GROMMET, NUT)						
			185-2658		KIT-HARDWARE (ALTERNATOR)						
					(INCLUDES BOLTS)						
J-KIT MARKED J AVAILABLE FOR PARTS MARKED J											

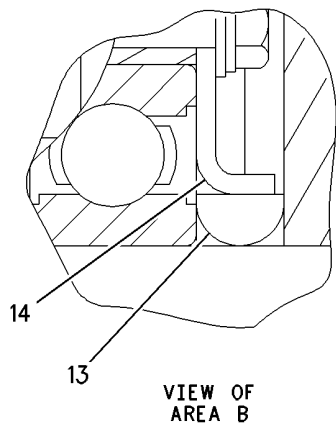
ELECTRICAL AND STARTING SYSTEM

177-9953 ALTERNATOR GP-CHARGING (contd.)

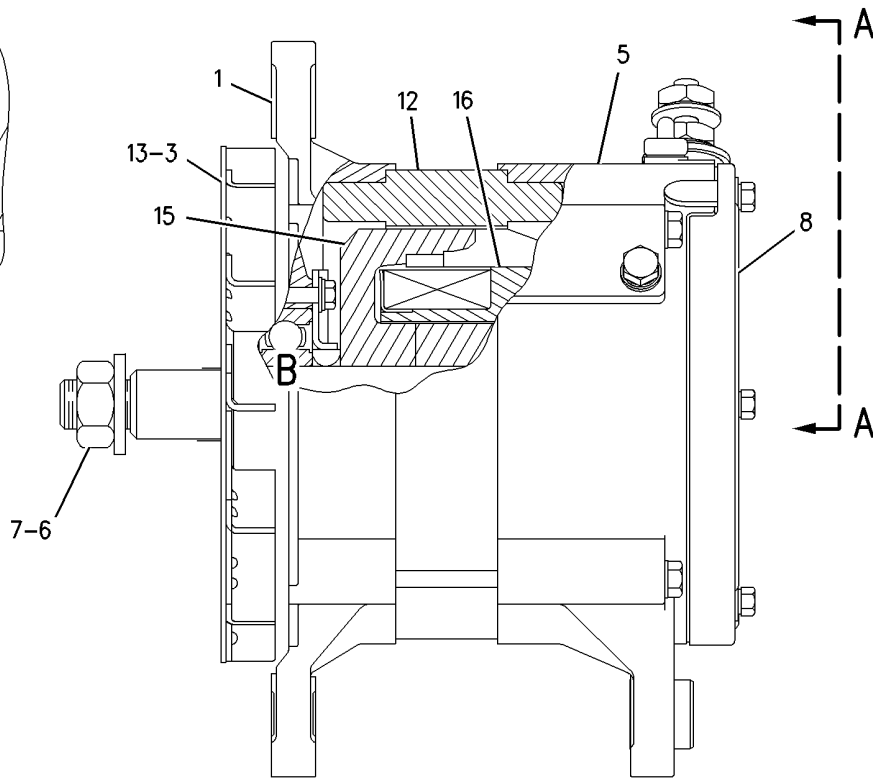
i02603768



VIEW A-A



VIEW OF AREA B



<END>

GRAPHIC #1

g00795850

ELECTRICAL AND STARTING SYSTEM

184-7171 ALTERNATOR GP-CHARGING

S/N: MBD1-310, 1445-2163

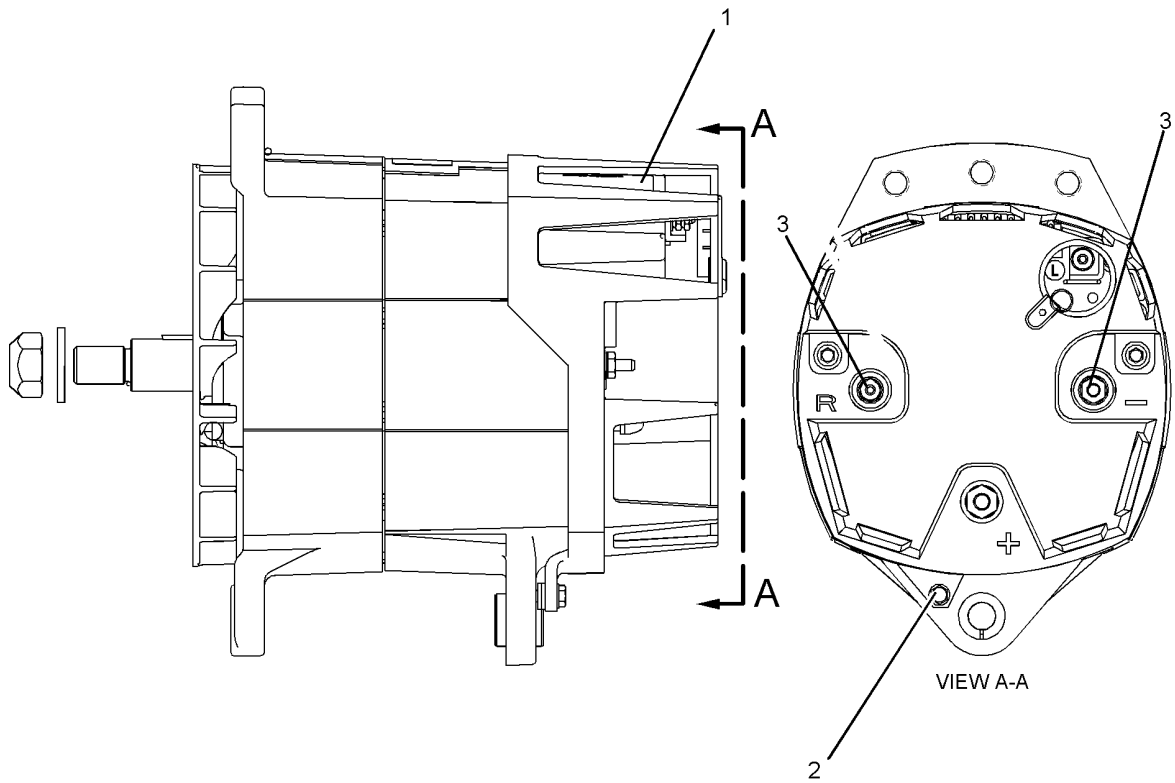
12-VOLT, 160-AMPERE

PART OF 236-6687 ALTERNATOR GP-CHARGING
AN ATTACHMENT

SMCS-1405

i02292800

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	198-0971	1	GUARD						
	2	1	045-4065	1	SCREW-MACHINE (10-32X0.75-IN)						
	3	1	6V-5764	2	SCREW-MACHINE (10-32X0.625-IN)						



GRAPHIC #1

<END>

g01055220

ELECTRICAL AND STARTING SYSTEM

185-5294 ALTERNATOR GP-CHARGING*R

24-VOLT, 65-AMPERE
AN ATTACHMENT

SMCS-1405

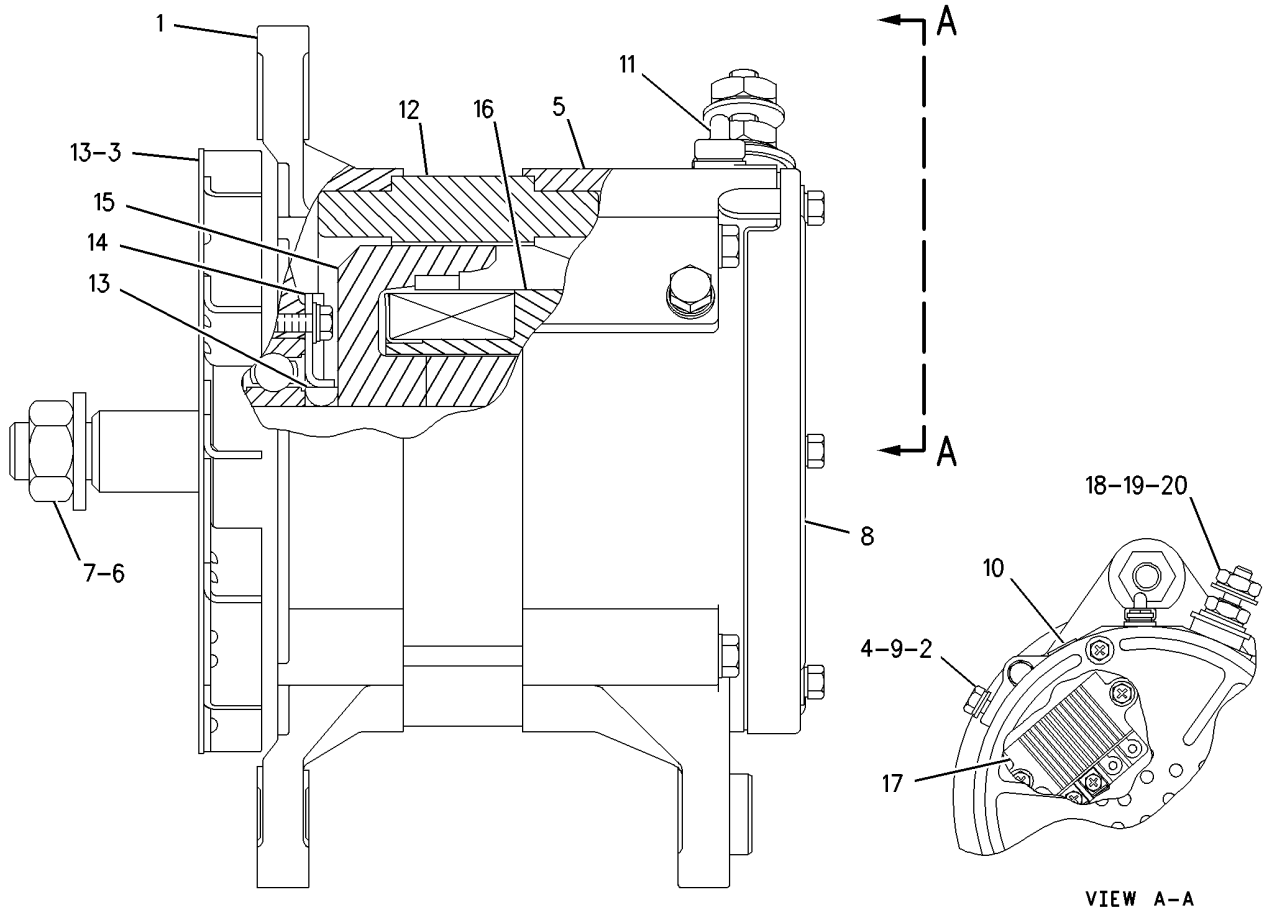
i02247153

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-2653	1	FRAME						
	2	1	5S-7349	1	BOLT (1/4-20X0.5-IN)						
	3	1	185-2639	1	FAN AS						
	4	1	1H-3244	1	LOCKWASHER						
	5	1	185-2645	1	FRAME						
	6	1	2K-4821	1	LOCKNUT (5/8-18-THD)						
	7	1	5P-8247	1	WASHER-HARD (17X32X3.5-MM THK)						
	8	1	185-2651	1	COVER						
	9	1	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)						
	10	1	185-2647	1	GROMMET						
	11	1	9L-6770	1	CAP						
	12	1	185-2642	1	STATOR AS						
	13	1	185-2638	2	COLLAR						
	14	1	185-2654	1	PLATE						
	15	1	185-2650	1	ROTOR AS						
	16	1	185-2644	1	COIL AS						
	17	1	185-2648	1	REGULATOR AS-VOLTAGE (24-VOLT) (ALTERNATOR)						
	18	1	6V-8189	1	NUT (5/16-18-THD)						
	19	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
	20	1	3F-9556	1	LOCKWASHER						
					AVAILABLE REPAIR KIT(S):						
			185-2655	1	KIT-BEARING (ALTERNATOR)						
			199-8436	1	KIT-TERMINAL (ALTERNATOR)						
					(INCLUDES HOLDER AS, PLATE INSULATOR, PIN, BOLT KIT, GROMMET, AND NUT)						
			199-7891	1	KIT-TERMINAL (ALTERNATOR)						
					(INCLUDES INSULATORS, WASHERS, AND NUTS)						
			185-2658	1	KIT-HARDWARE (ALTERNATOR)						

ELECTRICAL AND STARTING SYSTEM

185-5294 ALTERNATOR GP-CHARGING (contd.)

i02247153



GRAPHIC #1

<END>

g00789053

ELECTRICAL AND STARTING SYSTEM

188-3506 ALTERNATOR GP-CHARGING

12-VOLT, 130-AMPERE
AN ATTACHMENT

SMCS-1405

i01567425

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						329
	2	1	126-8240	1	SUPPORT-ALTERNATOR						
	3	1	131-2182	1	SUPPORT-ALTERNATOR						
	4	1	1H-2415	1	BOLT (0.5-13X2.5-IN)						
	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 (11X21X2.5-MM THK)						
M	8	1	8T-4186	2	BOLT (M10X1.5X40-MM)						
M	9	1	8T-4195	4	BOLT (M10X1.5X30-MM)						
	10	1	8T-4223	4	WASHER-HARD (13.5X25.5X3-MM THK)						

M-METRIC PART

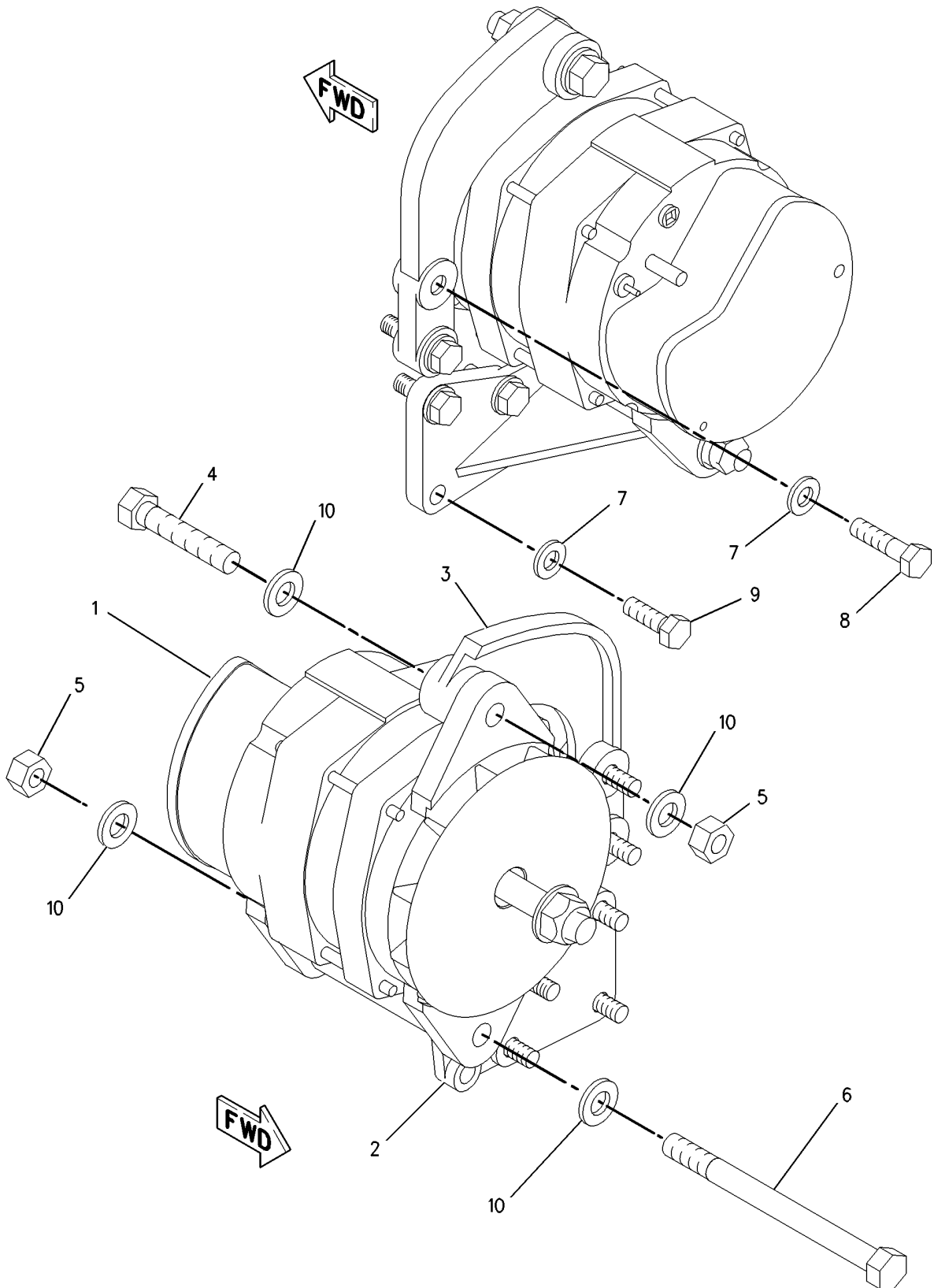
R-REMFG PART MAY BE AVAILABLE

Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

188-3506 ALTERNATOR GP-CHARGING (contd.)

i01567425



GRAPHIC #1

<END>

g00758669

ELECTRICAL AND STARTING SYSTEM

197-8820 ALTERNATOR GP-CHARGING*R

24-VOLTS, 95-AMPERE
AN ATTACHMENT

SMCS-1405

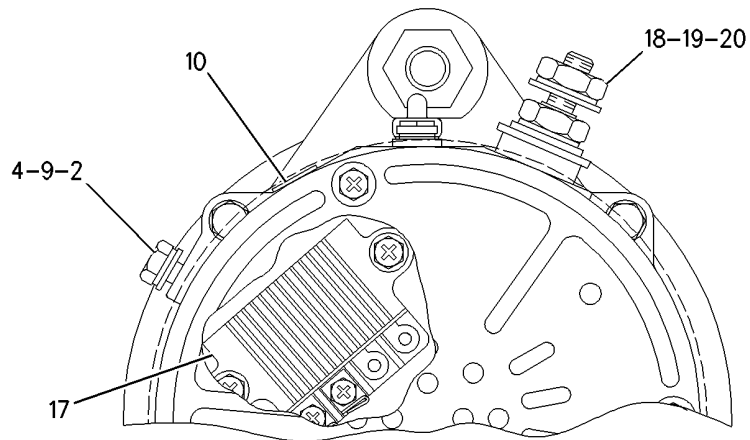
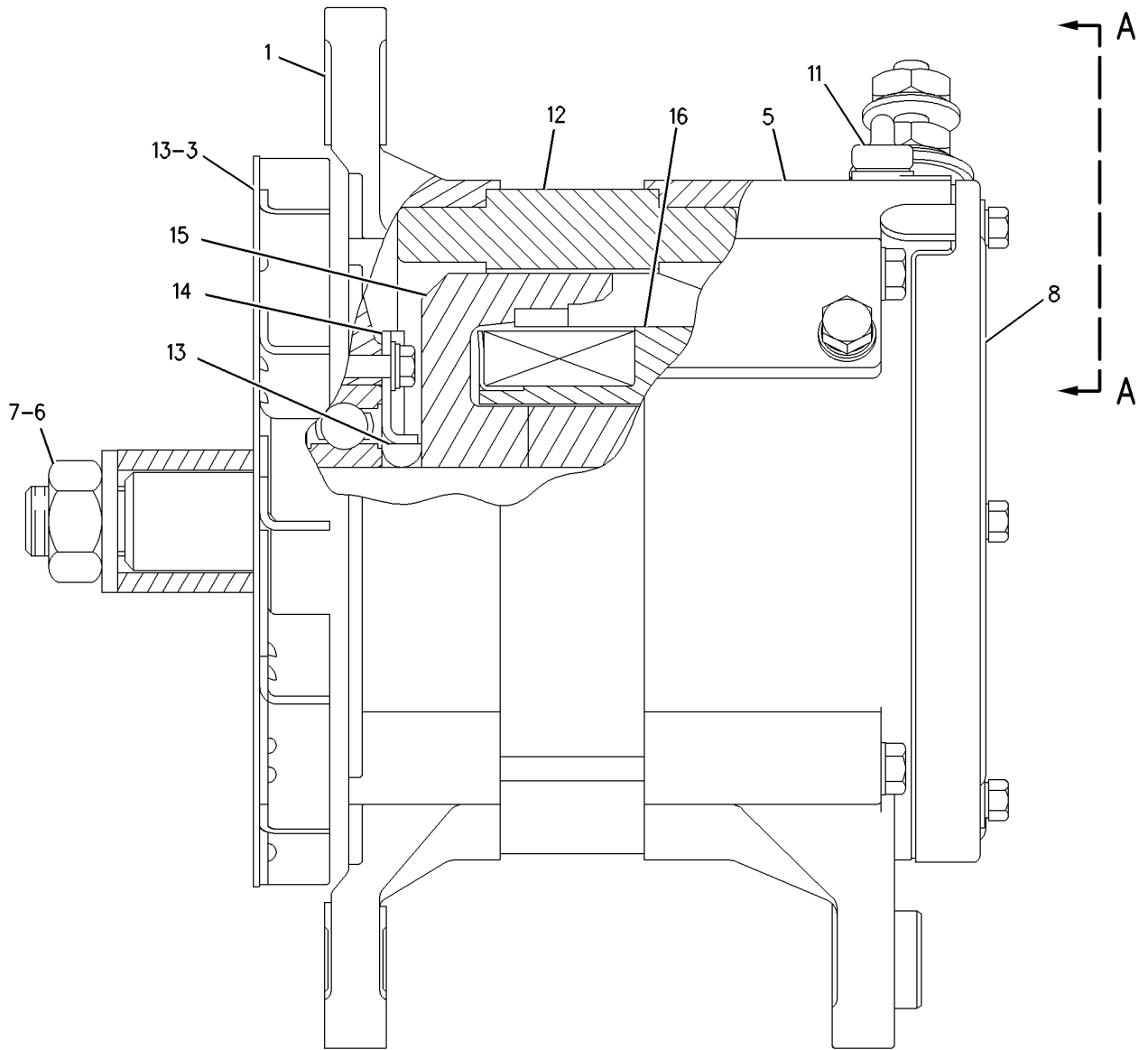
i02455448

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	185-2653	1	FRAME						
	2	1	5S-7349	1	BOLT (1/4-20X0.5-IN)						
	3	1	185-2639	1	FAN AS						
	4	1	1H-3244	1	LOCKWASHER						
	5	1	185-2645	1	FRAME						
	6	1	2K-4821	1	LOCKNUT (5/8-18-THD)						
	7	1	5P-8247	1	WASHER-HARD (17X32X3.5-MM THK)						
	8	1	185-2651	1	COVER						
	9	1	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)						
	10	1	185-2647	1	GROMMET						
	11	1	9L-6770	1	CAP (ALTERNATOR AC TAP)						
	12	1	205-0626	1	STATOR AS-ALTERNATOR						
	13	1	185-2638	2	COLLAR						
	14	1	185-2654	1	PLATE						
	15	1	185-2650	1	ROTOR AS						
	16	1	185-2644	1	COIL AS						
	17	1	185-2648	1	REGULATOR AS-VOLTAGE (24-VOLT) (ALTERNATOR)						
	18	1	6V-8189	1	NUT (5/16-18-THD)						
	19	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
	20	1	3F-9556	1	LOCKWASHER						
					AVAILABLE REPAIR KIT(S):						
			185-2655		KIT-BEARING (ALTERNATOR) (INCLUDES 2 BEARINGS)						
			199-8436		KIT-TERMINAL (ALTERNATOR) (INCLUDES HOLDER AS, PLATE, INSULATOR, PIN, BOLTS, GROMMET, AND NUT)						
			199-7891		KIT-TERMINAL (ALTERNATOR) (INCLUDES INSULATORS, WASHERS, AND NUTS)						
			185-2658		KIT-HARDWARE (ALTERNATOR) (INCLUDES BOLTS)						

ELECTRICAL AND STARTING SYSTEM

197-8820 ALTERNATOR GP-CHARGING (contd.)

i02455448



GRAPHIC #1

<END>

g00873198

ELECTRICAL AND STARTING SYSTEM

236-6687 ALTERNATOR GP-CHARGING

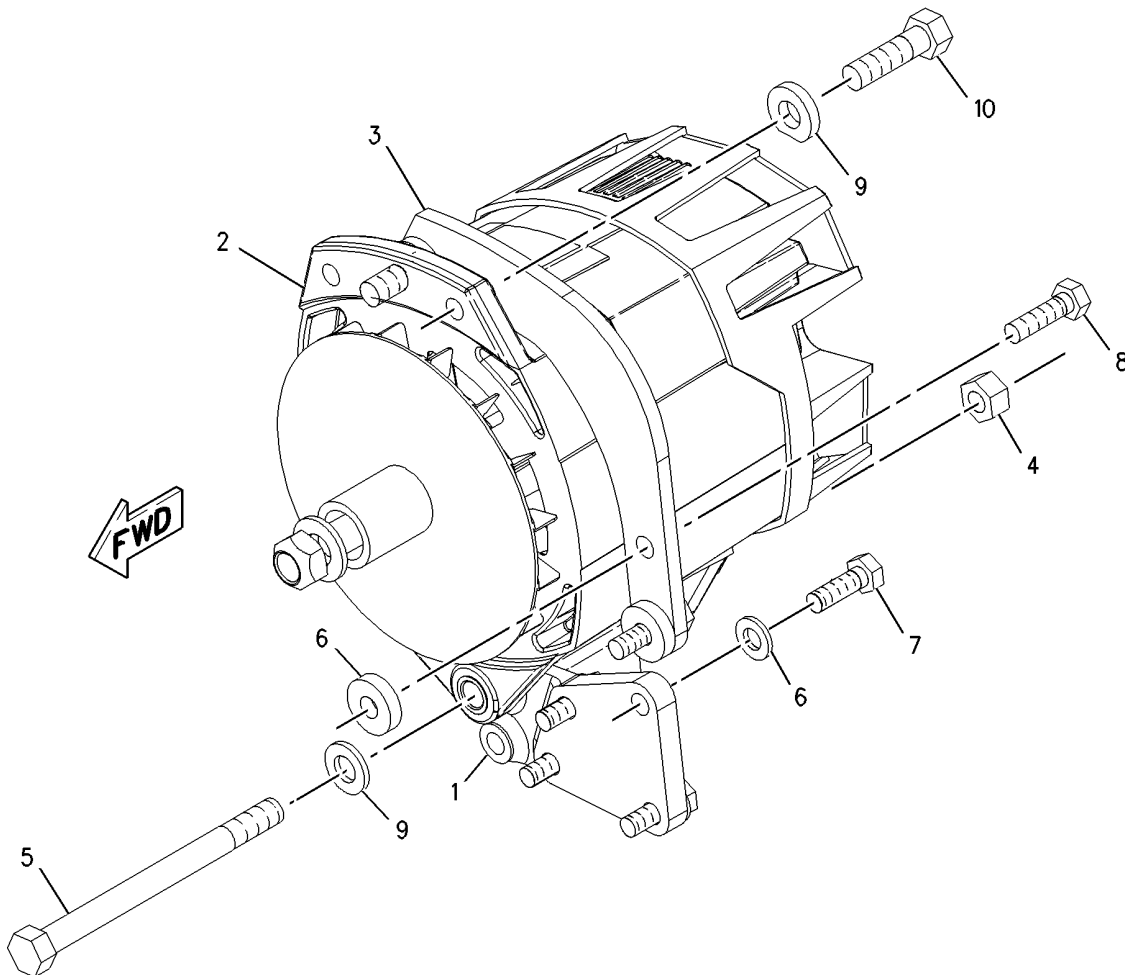
S/N: MBD1-2163
12-VOLT, 160-AMPERE
AN ATTACHMENT

SMCS-1405

i02560435

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	126-8240	1	SUPPORT-ALTERNATOR							
Y	2	1	184-7171	1	ALTERNATOR GP-CHARGING (12-VOLT, 160-AMPERE)							335
	3	1	235-7085	1	BRACKET AS							
	4	1	6V-8188	1	NUT (1/2-13-THD)							
	5	1	7X-0338	1	BOLT (1/2-13X6-IN)							
	6	1	8T-4121	6	WASHER-HARD (11X21X2.5-MM THK)							
M	7	1	8T-4195	4	BOLT (M10X1.5X30-MM)							
M	8	1	8T-4196	2	BOLT (M10X1.5X35-MM)							
	9	1	8T-4223	4	WASHER-HARD (13.5X25.5X3-MM THK)							
	10	1	8T-8919	2	BOLT (1/2-13X1.75-IN)							

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01004507

ELECTRICAL AND STARTING SYSTEM

236-6687 ALTERNATOR GP-CHARGING

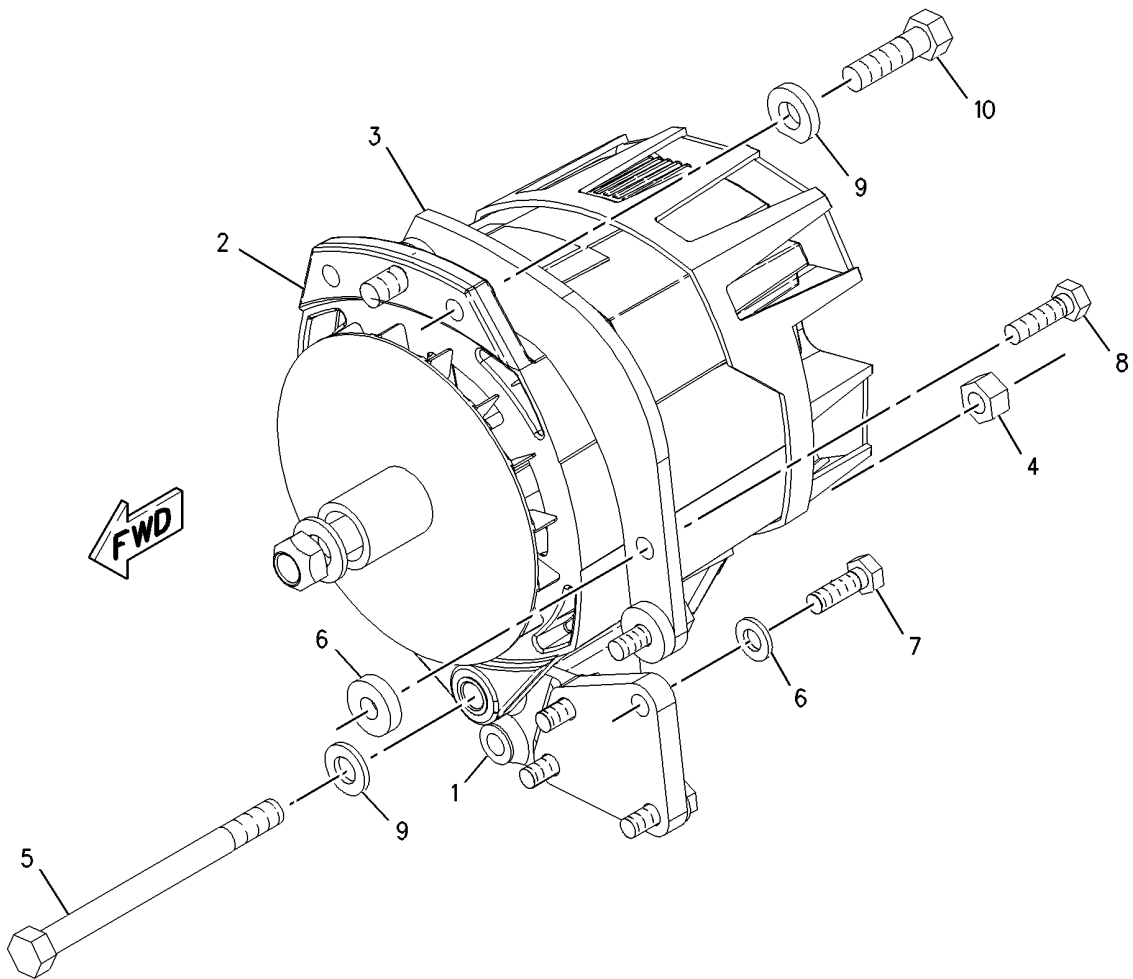
S/N: MBD2164-UP
12-VOLT, 160-AMPERE
AN ATTACHMENT

SMCS-1405

i02574726

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	1 2 3 4 5 6 (PRODUCT LEVEL)						SEE PAGE
	1	1	126-8240	1	SUPPORT-ALTERNATOR							
CY	2	1	268-4110	1	ALTERNATOR GP-CHARGING							344
	3	1	235-7085	1	BRACKET AS							
	4	1	6V-8188	1	NUT (1/2-13-THD)							
	5	1	7X-0338	1	BOLT (1/2-13X6-IN)							
	6	1	8T-4121	6	WASHER-HARD (11X21X2.5-MM THK)							
M	7	1	8T-4195	4	BOLT (M10X1.5X30-MM)							
M	8	1	8T-4196	2	BOLT (M10X1.5X35-MM)							
	9	1	8T-4223	4	WASHER-HARD (13.5X25.5X3-MM THK)							
	10	1	8T-8919	2	BOLT (1/2-13X1.75-IN)							

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



GRAPHIC #1

<END>

g01004507

ELECTRICAL AND STARTING SYSTEM

268-4110 ALTERNATOR GP-CHARGING

S/N: MBD2164-UP

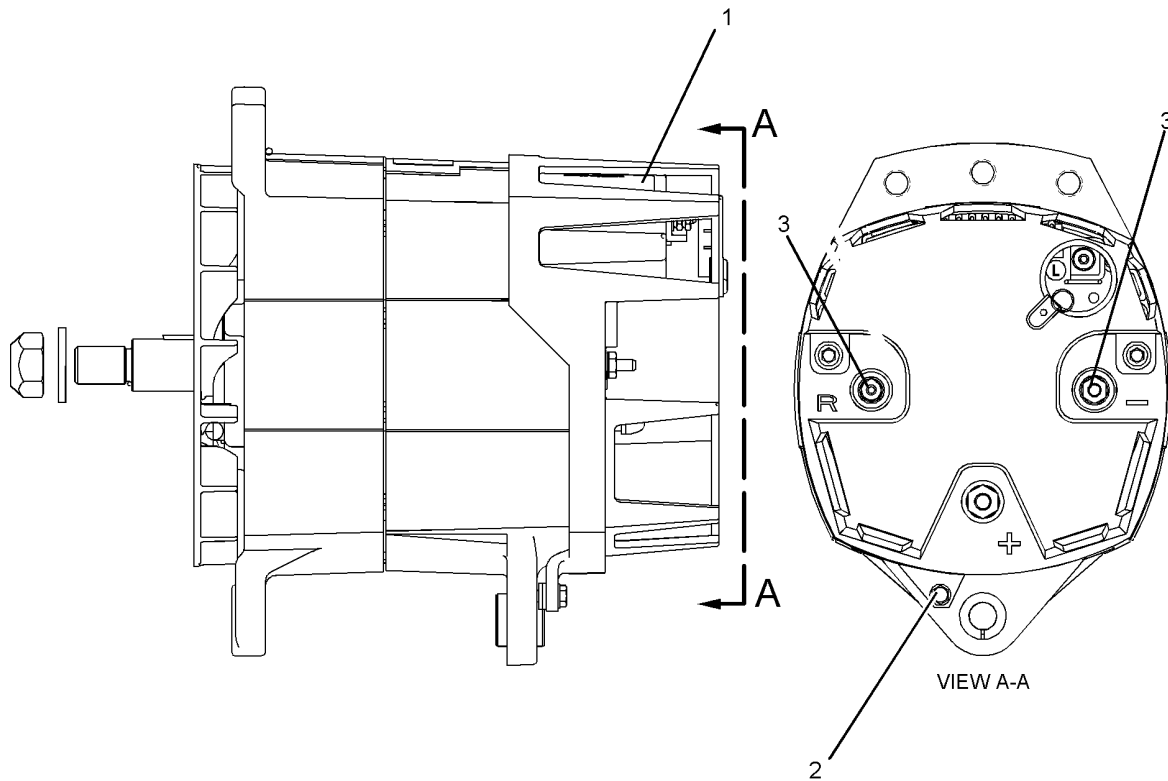
12-VOLT, 160-AMPERE

PART OF 236-6687 ALTERNATOR GP-CHARGING
AN ATTACHMENT

SMCS-1405

i02455796

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	198-0971	1	GUARD						
	2	1	045-4065	1	SCREW-MACHINE (10-32X0.75-IN)						
	3	1	6V-5764	2	SCREW-MACHINE (10-32X0.625-IN)						



GRAPHIC #1

<END>

g01055220

ELECTRICAL AND STARTING SYSTEM

200-2310 CONNECTION GP-ELECTRICAL

PROVIDES PARTS FOR THROTTLE SENSOR CONNECTION
AN ATTACHMENT

SMCS-1408

i01575651

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 (16-GA TO 18-GA)						
	8T-9834	1	PLUG AS-CONNECTOR (40-PIN)						
	3E-4367	1	RING-RETAINING						
M	3E-8557	1	BOLT (M5X0.8X39.37-MM)						
	9X-3132	2	SEAL-CONNECTOR (40-PIN)						
	8T-8737	36	PLUG-SEAL						
	8T-8732	1	RECEPTACLE (3-PIN)						
	9W-0844	3	SOCKET-CONNECTOR (14-GA)						
	9X-3402	39	SOCKET-CONNECTOR (16-GA TO 18-GA)						
	151-6320	2	TOOL-WIRE REMOVAL						

M-METRIC PART

<END>

ELECTRICAL AND STARTING SYSTEM

240-6054 CONNECTION GP-ELECTRICAL

AN ATTACHMENT

SMCS-1408

i02346587

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
J	8T-8732	1	RECEPTACLE (3-PIN)						
L	8T-8737	66	PLUG-SEAL						
L	9W-0844	3	SOCKET-CONNECTOR (14-GA)						
L	133-0969	1	CONNECTOR-SOCKET						
	160-7689	1	PLUG AS-CONNECTOR (70-PIN)						
	159-9322	1	SEAL-O-RING						
	9X-3401	3	PIN-CONNECTOR (16-GA TO 18-GA) (16-GA TO 18-GA WIRE)						
			-OR-						
	126-1767	3	PIN-CONNECTOR (14-GA) (14-GA WIRE)						
J	194-5226	1	WIRE AS-HARNESS (16-GA TO 18-GA) (THROTTLE POSITION)						
			-OR-						
J	194-5227	1	WIRE AS-HARNESS (14-GA WIRE) (THROTTLE POSITION)						
L	194-5226	1	WIRE AS-HARNESS (16-GA TO 18-GA) (CUSTOMER CONNECTOR)						
			-OR-						
L	194-5227	1	WIRE AS-HARNESS (14-GA WIRE) (CUSTOMER CONNECTOR)						
	151-6320	2	TOOL-WIRE REMOVAL						
S	8C-3334	2	RIVET-TUBULAR						
S	8C-6354	1	CAP-RECEPTACLE						
S	8T-8736	1	RECEPTACLE-CONNECTOR (9-PIN)						
S	8T-8737	2	PLUG-SEAL						
S	9W-0852	2	PIN-CONNECTOR (14-GA)						
S	133-0967	1	CONNECTOR-PIN						

J-FOR THROTTLE POSITION SENSOR CONNECTION
L-FOR CUSTOMER CONNECTOR (70-PIN)
S-CAT SERVICE TOOL

<END>

ELECTRICAL AND STARTING SYSTEM

246-9345 CONTROL & MTG GP-ENGINE ELEK

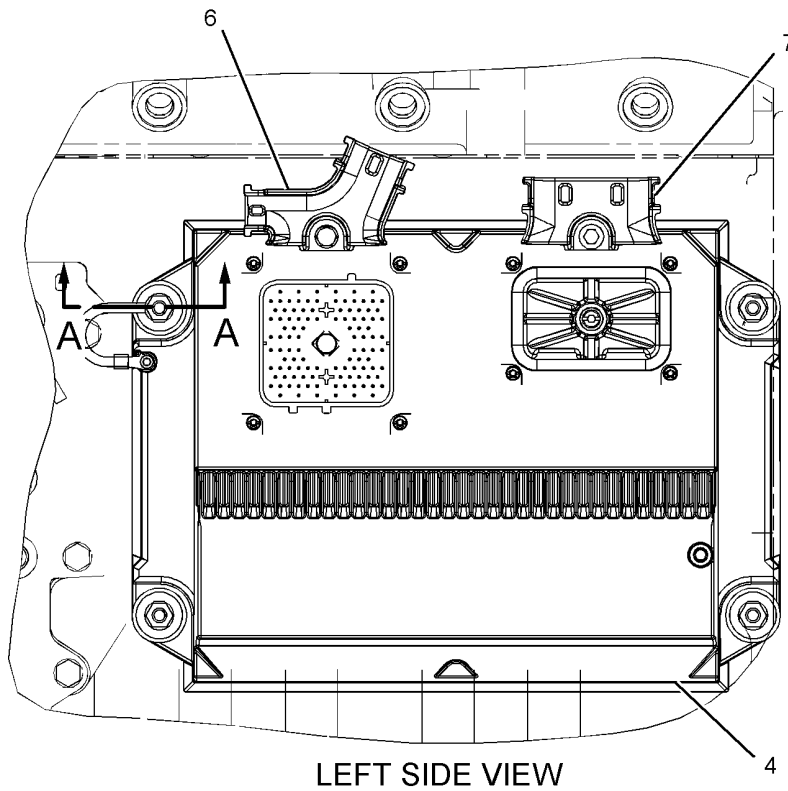
AN ATTACHMENT

SMCS-1900, 1901

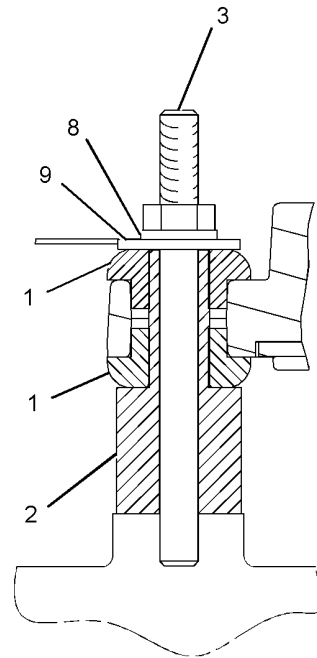
i02461826

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-9655	8	MOUNT-ISOLATION						
	2	1	101-3128	4	SPACER						
M	3	1	143-9392	4	STUD (M8X1.25-THD)						
	4	1	255-5284	1	CONTROL GP-UNPROGRAMMED (ENGINE)						
	6	1	244-3168	1	BRACKET AS						
	7	1	233-0891	1	BRACKET AS						
	8	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	9	1	9N-0869	4	WASHER-HARD (8.8X25.5X2-MM THK)						

M-METRIC PART



LEFT SIDE VIEW



SECTION A-A

GRAPHIC #1

<END>

g01093182

ELECTRICAL AND STARTING SYSTEM

195-1345 CONTROL GP-AUTO START/STOP

AN ATTACHMENT

SMCS-1426, 4462

i02603771

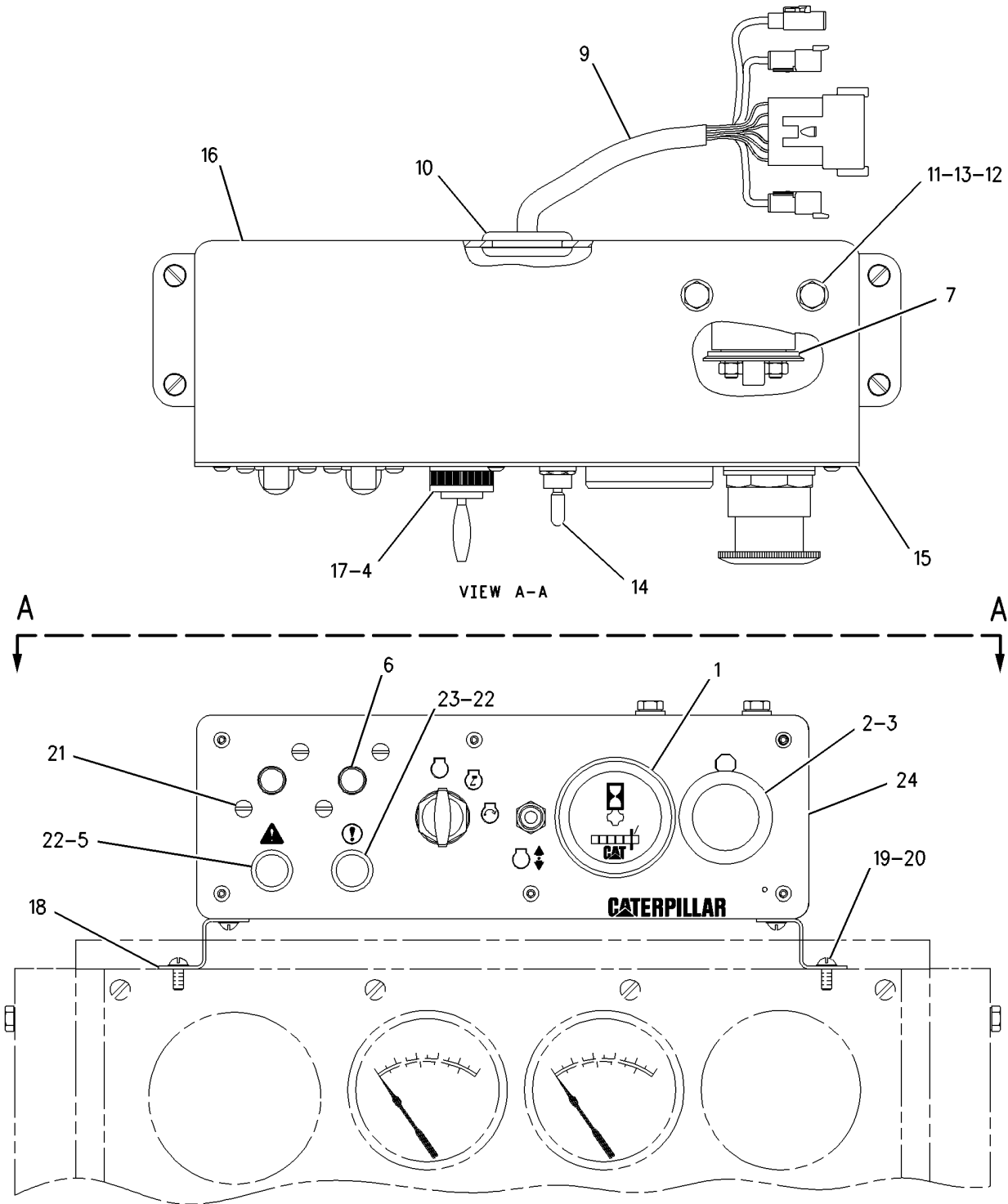
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9W-1494	1	KIT-SERVICE METER (24-VOLT) (INSTRUMENT PANEL) (INCLUDES SERVICE METER AND SERVICE FILM)						
	2	1	111-1325	1	BLOCK-CONTACT (2-POLE)						
	3	1	109-6507	1	SWITCH AS-PUSH BUTTON (SECONDARY 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						
		1	2V-7088	1	LENS-RED (INDICATOR)						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27-THD)						
		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875-IN)						
	6	1	6T-3643	2	CIRCUIT BREAKER GP (15-AMPERE) (EACH INCLUDES)						
		1	6V-8376	2	SCREW-MACHINE (8-32X0.25-IN)						
		1	9B-7233	2	LOCKWASHER						
Y	7	1	125-1302	1	SWITCH GP-MAGNETIC (24-VOLT) (STARTING MOTOR)						413
	9	1	195-1344	1	HARNESS AS-WIRING (AUTO START/STOP CONTROL)						
		1	102-8805	1	KIT-RECEPTACLE (6-PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
		1	127-5486	1	RECEPTACLE AS-CONNECTOR (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 (7.2X14.5X2-MM THK)						
	12	1	6V-8185	2	NUT (1/4-20-THD)						
	13	1	4M-5281	2	BOLT (1/4-20X0.75-IN)						
	14	1	110-7884	1	SWITCH AS-TOGGLE (MOMENTARY) (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 (IGNITION)						
	18	1	137-5135	2	BRACKET						
	19	1	9F-8125	8	LOCKWASHER						
	20	1	4B-1237	8	SCREW-MACHINE (10-32X12.7-MM)						
	21	1	3E-8035	4	SCREW-MACHINE						
	22	1	7N-5876	2	LAMP (24-VOLT)						
	23	1	141-9228	1	LAMP AS (INDICATOR)						
		1	2V-7087	1	LENS-AMBER (INDICATOR)						
		1	6V-8367	1	LOCKWASHER						
		1	6V-8382	1	NUT-HEX (11/16-27-THD)						
		1	6V-8817	2	SCREW-MACHINE (4-36X0.1875-IN)						
	24	1	142-2245	1	FILM-CONTROL PANEL						

Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

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

i02603771



GRAPHIC #1

<END>

g00737774

ELECTRICAL AND STARTING SYSTEM

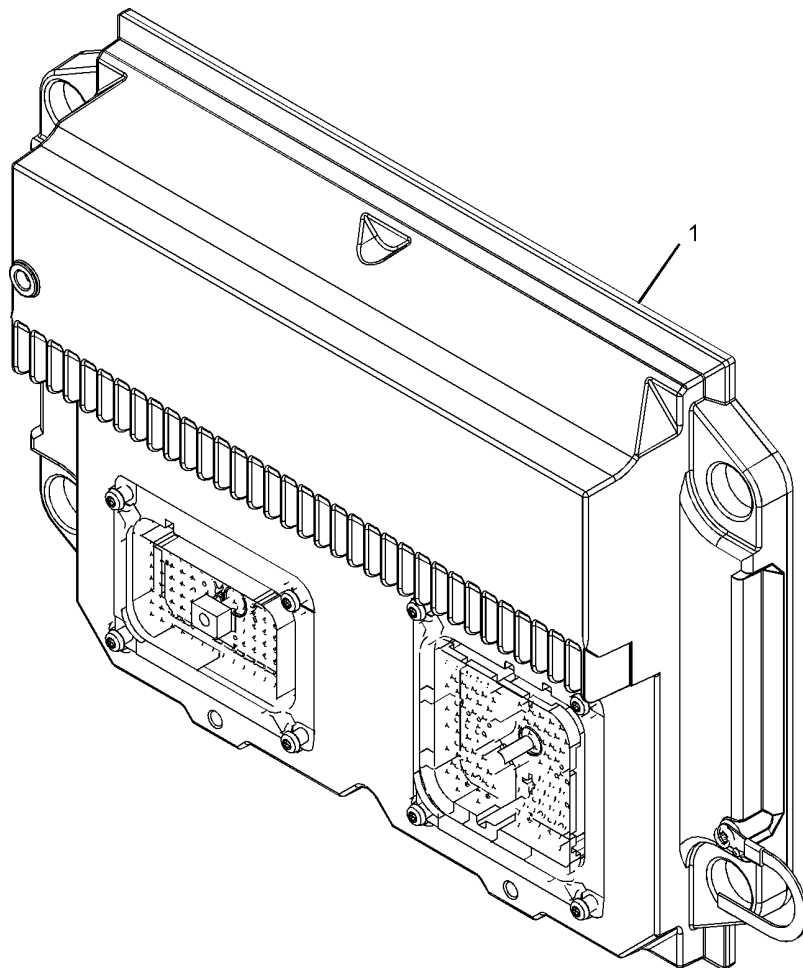
226-7473 CONTROL GP-ENGINE ELECTRONIC

PART OF 231-1972 CONTROL GP-ENGINE ELECTRONIC
AN ATTACHMENT

SMCS-1901

i02317524

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	262-2878	1	CONTROL GP-MACHINE						



GRAPHIC #1

<END>

g01101798

ELECTRICAL AND STARTING SYSTEM

231-1972 CONTROL GP-ENGINE ELECTRONIC

AN ATTACHMENT

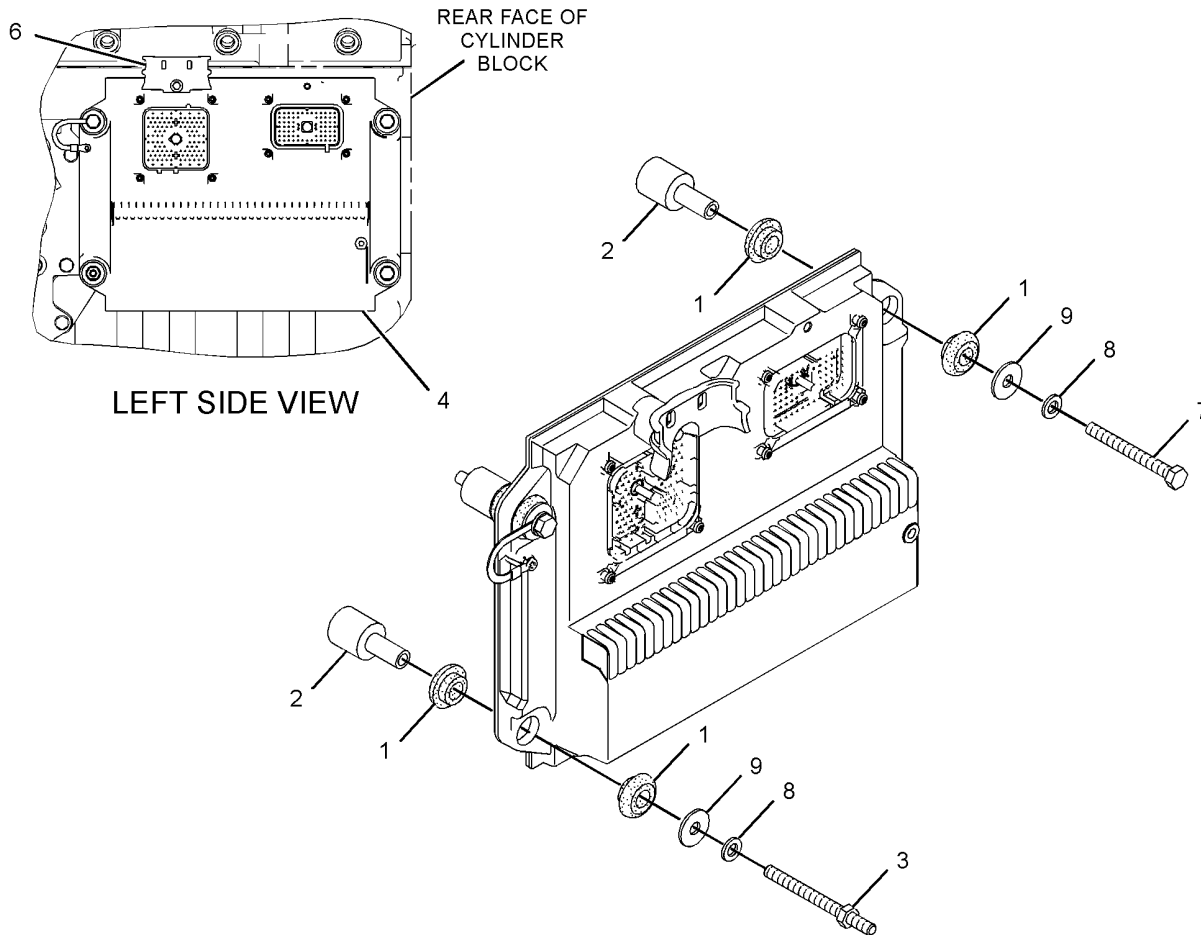
SMCS-1901

i02385739

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-9655	8	MOUNT-ISOLATION						
	2	1	101-3128	4	SPACER						
M	3	1	143-9392	1	STUD (M8X1.25-THD)						
Y	4	1	226-7473	1	CONTROL GP-ENGINE ELECTRONIC						351
	6	1	233-0891	1	BRACKET AS						
M	7	1	6V-9804	3	BOLT (M8X75-MM)						
	8	1	9M-1974	4	WASHER-HARD (8.8X16X2-MM THK)						
	9	1	9N-0869	4	WASHER-HARD (8.8X25.5X2-MM THK)						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01196534

ELECTRICAL AND STARTING SYSTEM

134-0597 CONTROL GP-ENGINE SPEED

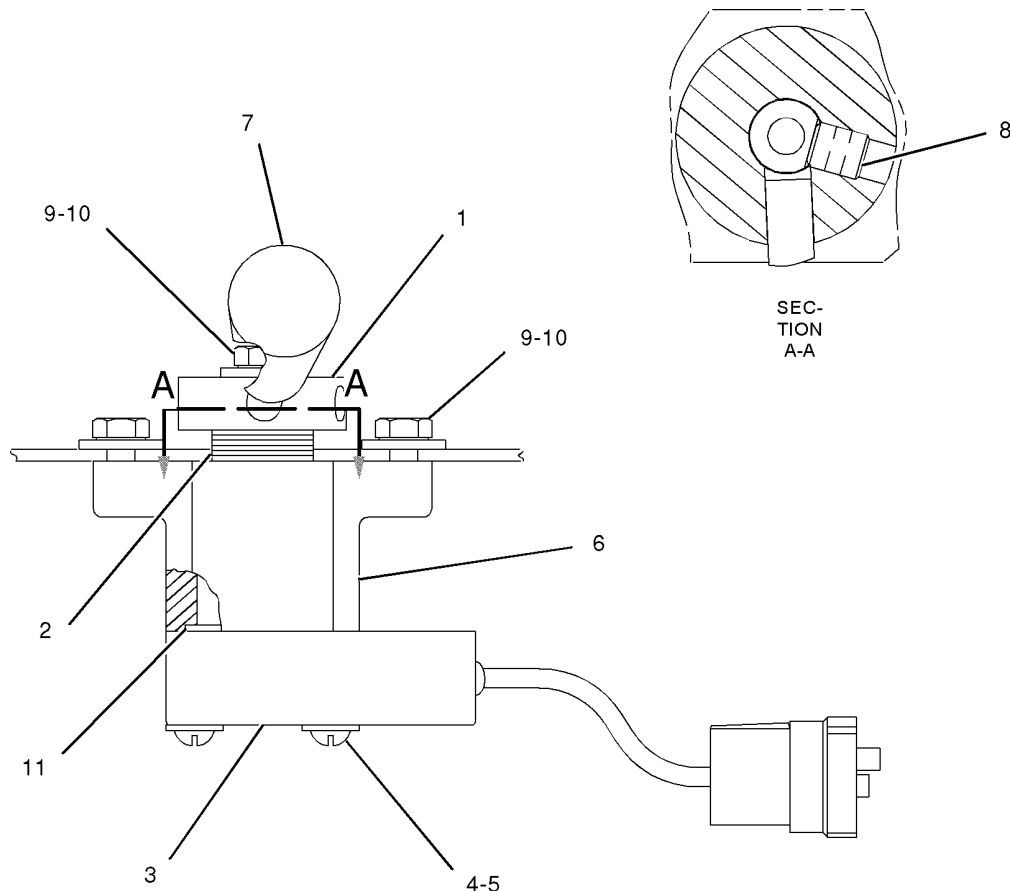
LEVER OPERATED
AN ATTACHMENT

SMCS-1901

i01991935

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	219-2384	1	SENSOR GP-POSITION (ROTARY) (ENGINE SPEED)						365
	4	1	4B-4274	2	WASHER (5.5X13X1.2-MM THK)						
	5	1	2F-7888	2	SCREW-MACHINE (10-32X1.25-IN) (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 (5/16-18X0.375-IN)						
	9	1	031-0215	3	BOLT-LOCKING (1/4-20X0.625-IN) (1/4 NC X 5/8IN)						
	10	1	5P-4115	3	WASHER-HARD (7.2X19X2-MM THK)						
	11	1	6V-0894	1	SEAL-O-RING						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01043957

ELECTRICAL AND STARTING SYSTEM

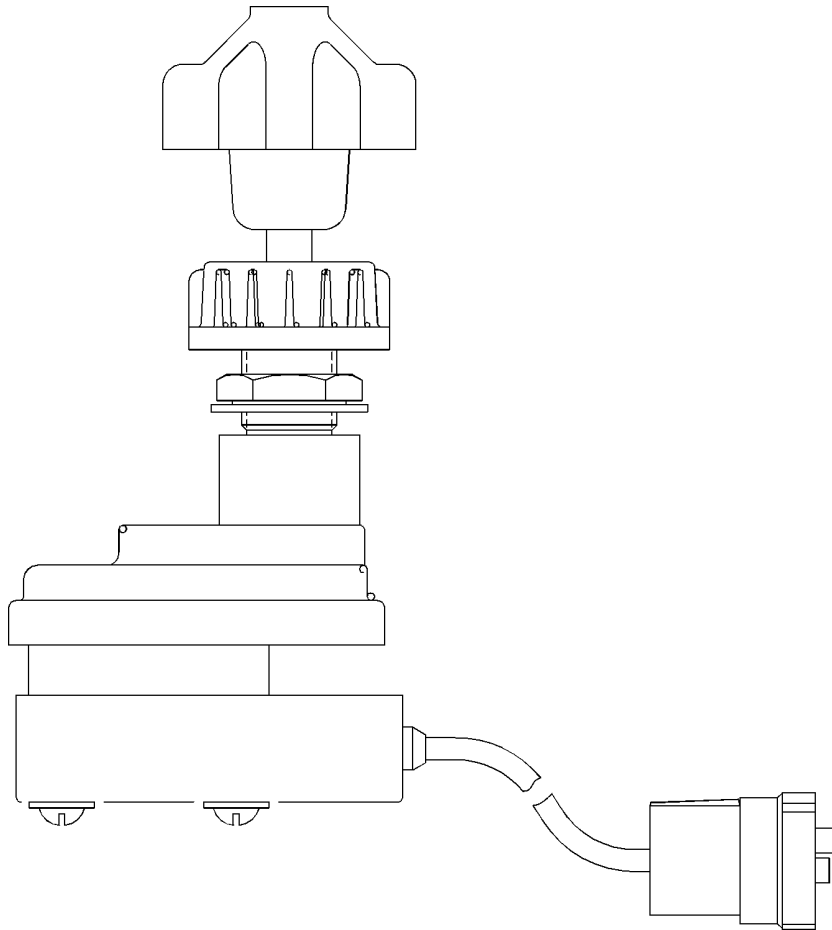
134-0670 CONTROL GP-ENGINE SPEED

KNOB OPERATED
FOR USE WITH ELECTRONIC ENGINES
AN ATTACHMENT

SMCS-1901

i02000199

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

<END>

g01036033

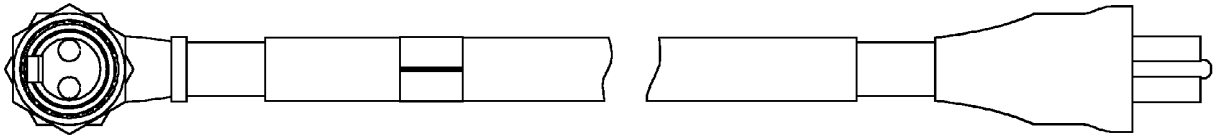
ELECTRICAL AND STARTING SYSTEM

188-1336 CORD AS-JACKET WATER HEATER 120-VOLT, 15-AMPERE AN ATTACHMENT

SMCS-1408

i02596369

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

<END>

g01297074

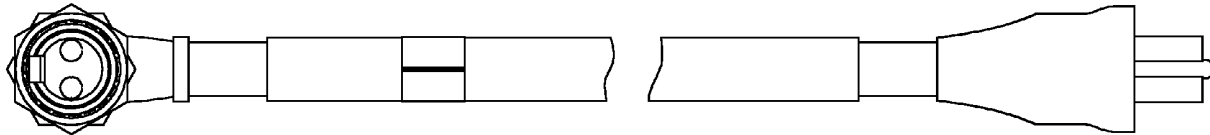
ELECTRICAL AND STARTING SYSTEM

188-1588 CORD AS-JACKET WATER HEATER 240-VOLT, 15-AMPERE AN ATTACHMENT

SMCS-1408

i02566545

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

<END>

g01297074

ELECTRICAL AND STARTING SYSTEM

230-2548 FASTENER GP-ENGINE WIRING

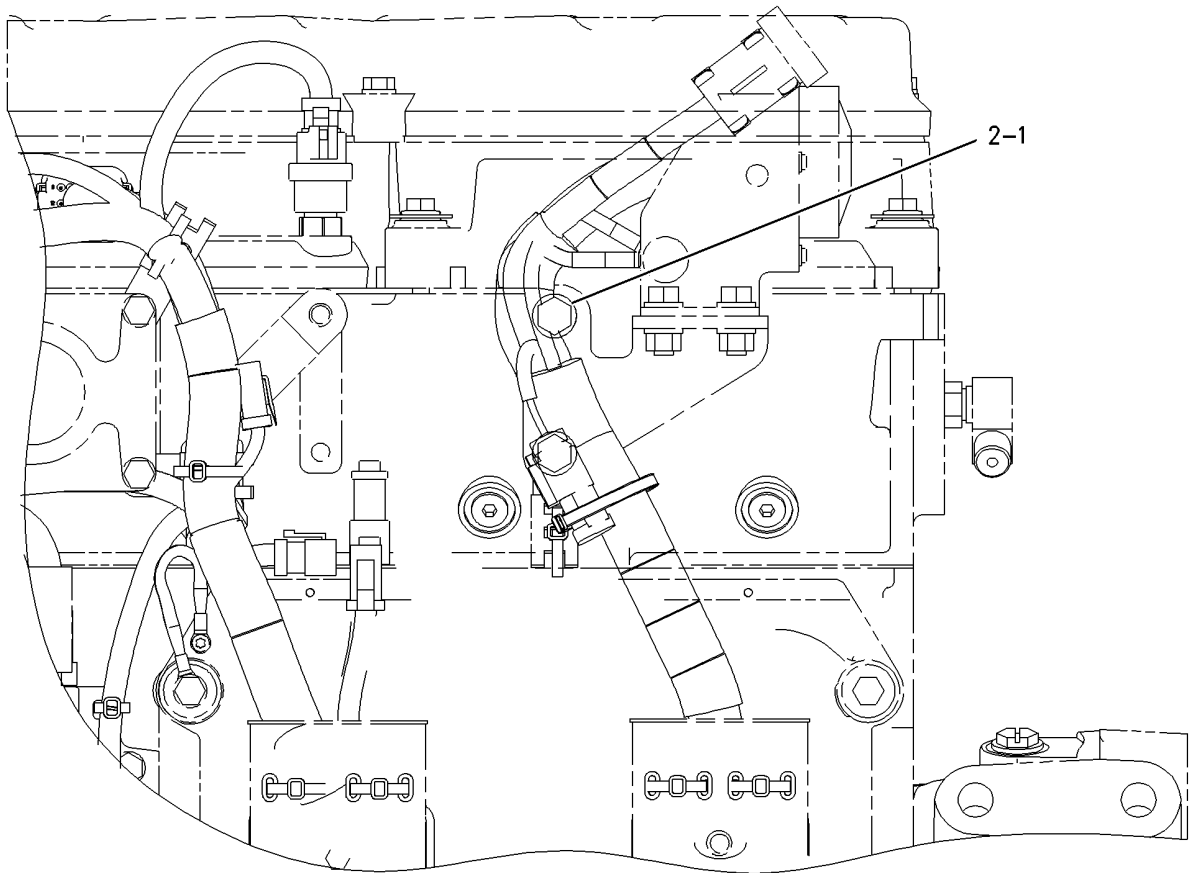
AN ATTACHMENT

SMCS-1408

i02292858

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8T-4121	2	WASHER-HARD (11X21X2.5-MM THK)						
M	2	1	8T-4136	2	BOLT (M10X1.5X25-MM)						

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

<END>

g00990393

ELECTRICAL AND STARTING SYSTEM

257-7268 FASTENER GP-ENGINE WIRING

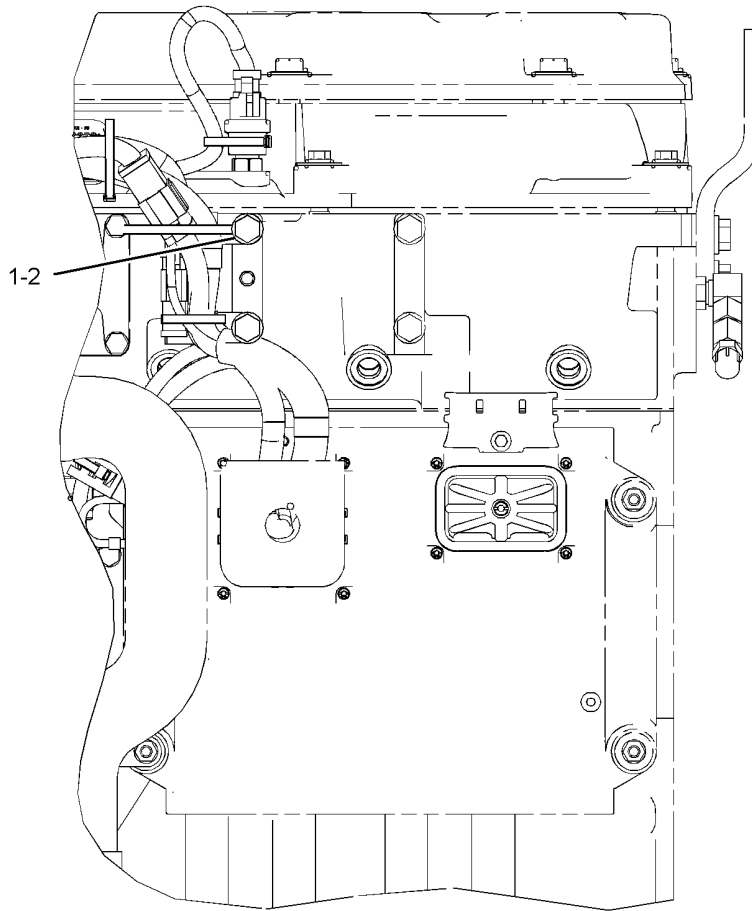
AN ATTACHMENT

SMCS-1408

i02292318

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	6V-5839	2	WASHER (11X21X2.5-MM THK)	
M	2	1	6V-6317	2	BOLT (M10X1.5X20-MM)	

M-METRIC PART



LEFT SIDE VIEW

GRAPHIC #1

<END>

g01105782

ELECTRICAL AND STARTING SYSTEM

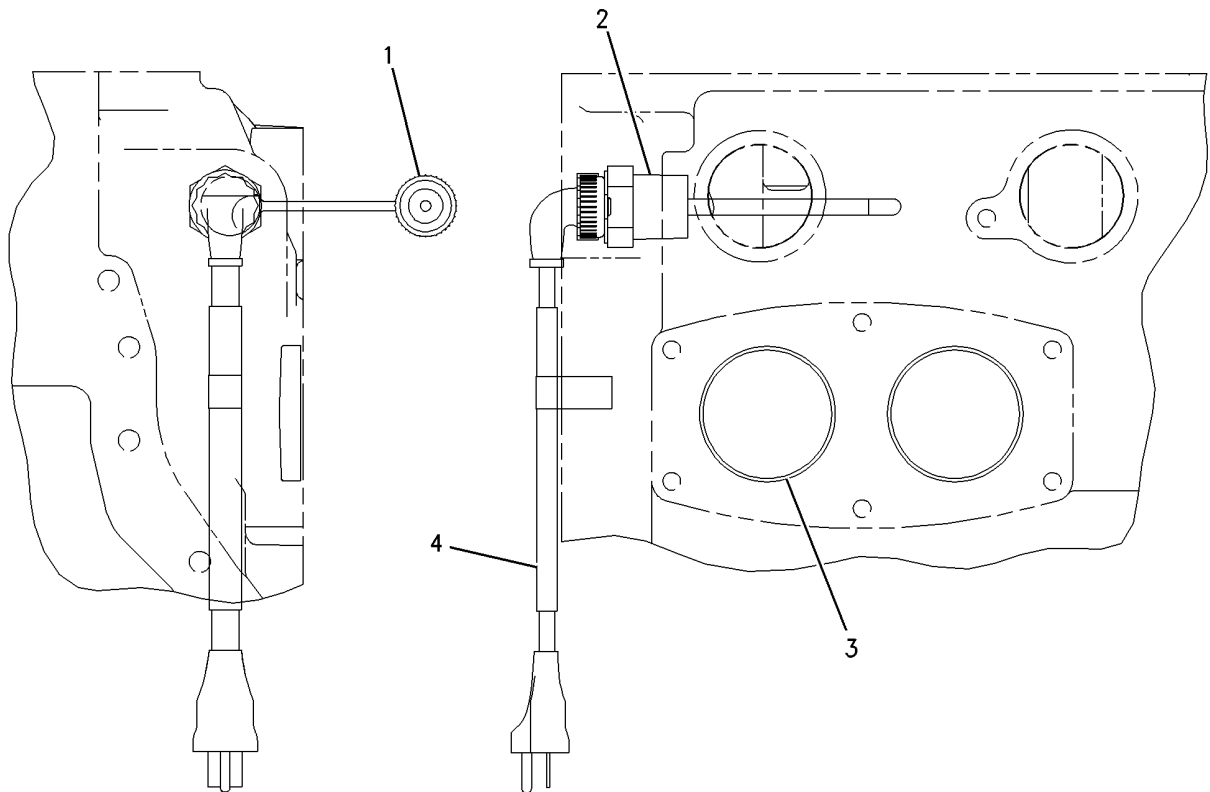
205-7237 HEATER GP-JACKET WATER

AN ATTACHMENT

SMCS-1383

i02549135

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6N-1604	1	CAP AS-DUST (JACKET WATER HEATER)						
	2	1	6T-3764	1	ELEMENT AS-JACKET WATER HEATER (240-VOLT, 1500-WATT)						
	3	1	7L-7556	2	PLUG-CUP (67.03MM OD)						
					-OR-						
		1	209-1434	2	PLUG-CUP (73.38MM OD)						
	4	1	188-1588	1	CORD AS						



REAR VIEW

RIGHT SIDE VIEW

GRAPHIC #1

<END>

g00791521

ELECTRICAL AND STARTING SYSTEM

4P-1479 HEATER GP-STARTING AID

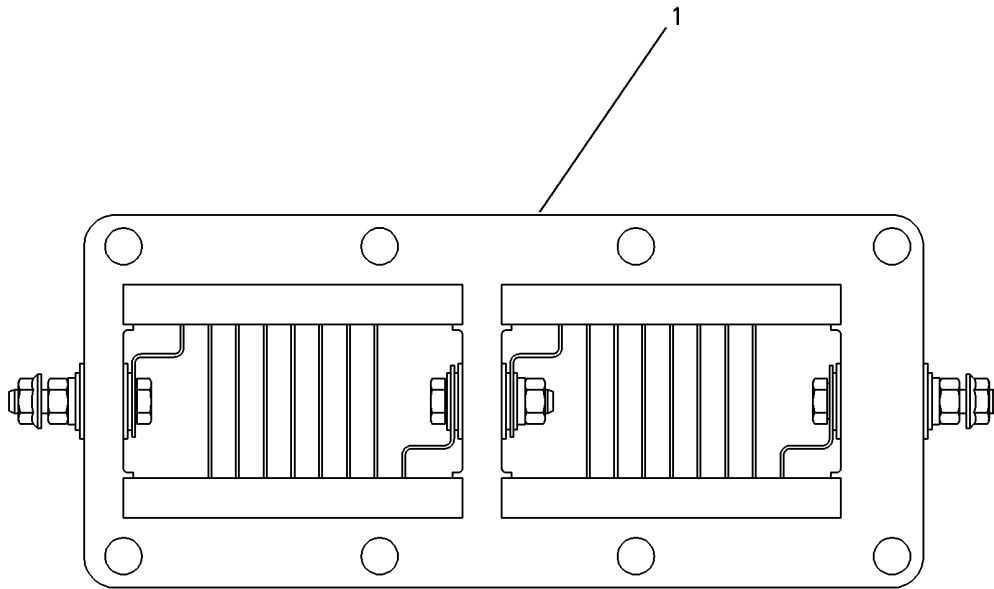
AN ATTACHMENT

SMCS-1090

i00937814

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						
		1	9X-8256	2	WASHER (6.6X12X2-MM THK)						
M		1	5C-2890	2	NUT (M6X1-THD)						
B		1	1U-8846		SEALANT-GASKET						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00214191

ELECTRICAL AND STARTING SYSTEM

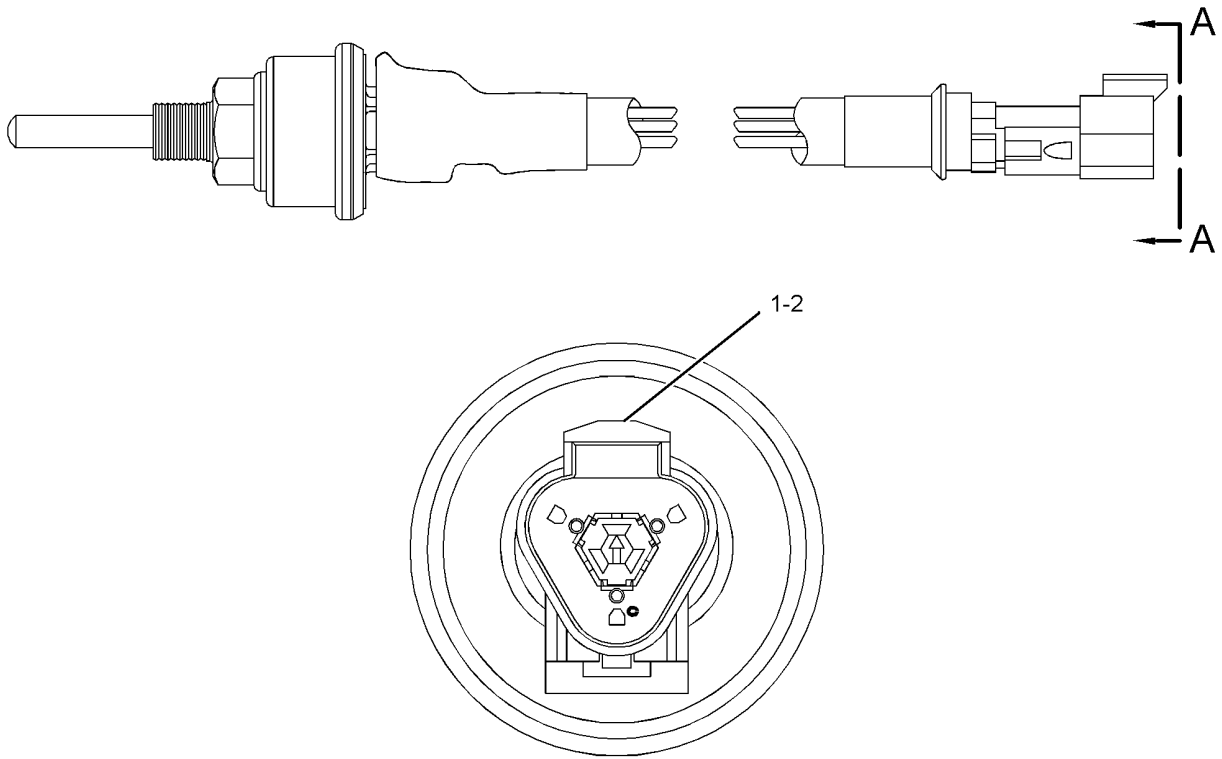
204-2518 SENSOR GP-COOLANT LEVEL

AN ATTACHMENT

SMCS-7422

i02581187

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	102-8803	1	KIT-RECEPTACLE (3-PIN) (INCLUDES RECEPTACLE AS & WEDGE)	
	2	1	186-3735	3	PIN-CONNECTOR (16-GA TO 18-GA)	



VIEW A-A

GRAPHIC #1

<END>

g01213538

ELECTRICAL AND STARTING SYSTEM

231-1978 SENSOR GP-ENGINE

AN ATTACHMENT

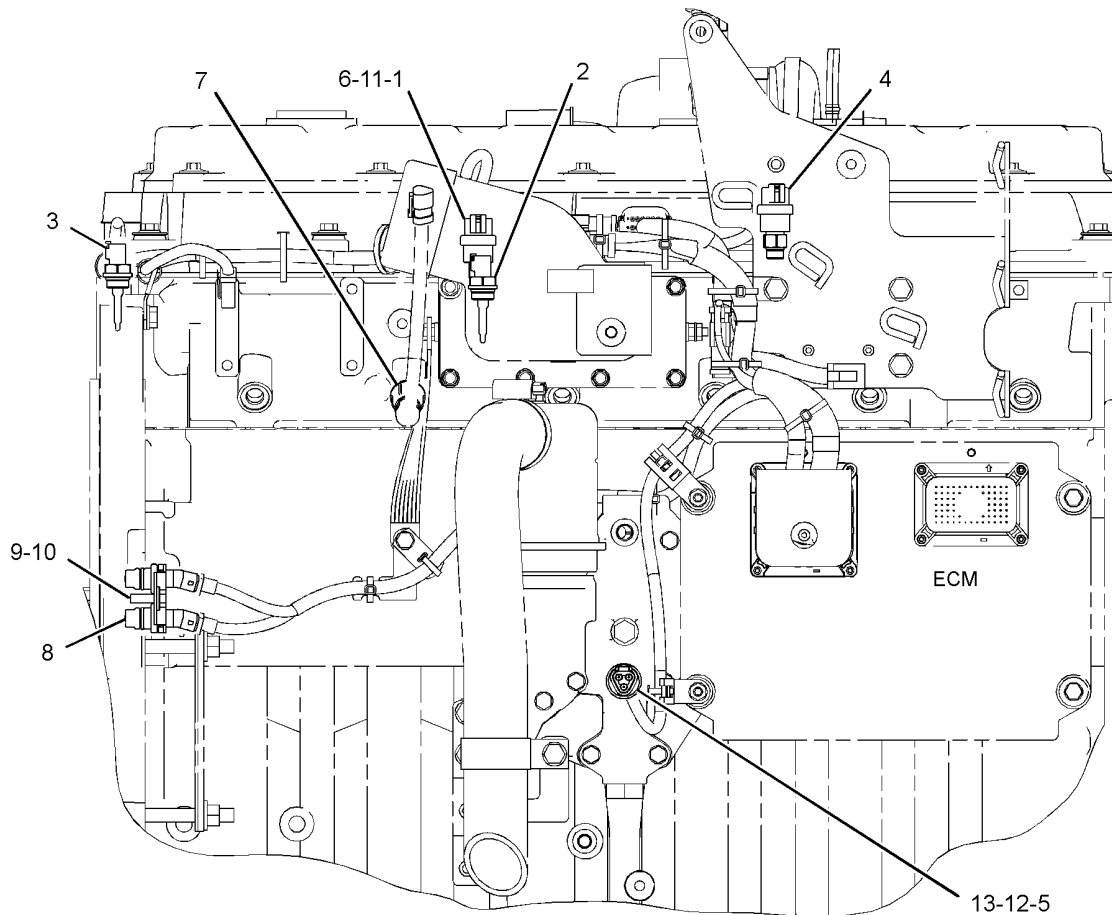
SMCS-1000, 1718, 1906, 1907, 1912, 1917, 1923,
1924, 1925, 1928, 1929, 7400, 7422

i02603812

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-0262	1	ADAPTER						
Y	2	1	274-7395	1	SENSOR GP-TEMPERATURE (AIR INLET MANIFOLD)						379
Y	3	1	274-7396	1	SENSOR GP-TEMPERATURE (WATER, COOLANT)						380
Y	4	1	197-8393	1	SENSOR GP-PRESSURE (ATMOSPHERIC AIR)						368
Y	5	1	197-8394	1	SENSOR GP-PRESSURE (ENGINE OIL)						369
Y	6	1	210-1747	1	SENSOR GP-PRESSURE (AIR INLET MANIFOLD)						370
Y	7	1	236-6220	1	SENSOR GP-PRESSURE (INJECTION ACTUATION)						372
Y	8	1	236-6221	1	SENSOR GP-SPEED (ENGINE SPEED, TIMING)						374
	9	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5-MM THK)						
M	10	1	6V-3940	1	BOLT (M8X1.25X25-MM)						
	11	1	6V-5048	1	SEAL-O-RING						
	12	1	6V-5049	1	SEAL-O-RING						
	13	1	9X-0261	1	ADAPTER						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



LEFT SIDE VIEW

<END>

GRAPHIC #1

g01199708

ELECTRICAL AND STARTING SYSTEM

260-6885 SENSOR GP-ENGINE

AN ATTACHMENT

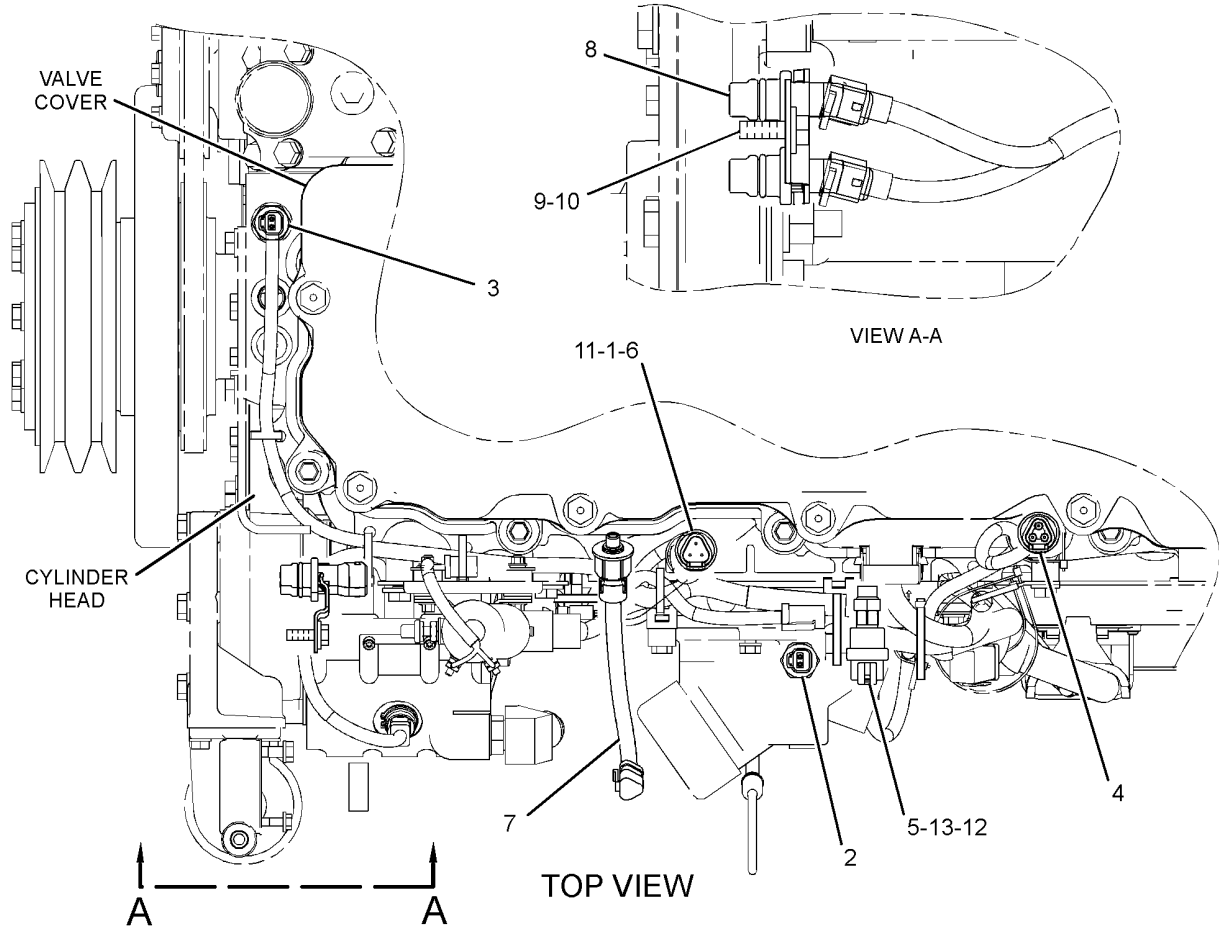
SMCS-1000, 1718, 1906, 1907, 1912, 1917, 1923,
1924, 1925, 1928, 1929, 7400, 7422

i02603813

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9X-0262	1	ADAPTER						
Y	2	1	197-8391	1	SENSOR GP-TEMPERATURE (AIR INLET MANIFOLD)						376
Y	3	1	197-8392	1	SENSOR GP-TEMPERATURE (COOLANT, WATER)						377
Y	4	1	197-8393	1	SENSOR GP-PRESSURE (ATMOSPHERIC AIR)						368
Y	5	1	197-8394	1	SENSOR GP-PRESSURE (ENGINE OIL)						369
Y	6	1	210-1747	1	SENSOR GP-PRESSURE (AIR INLET MANIFOLD)						370
Y	7	1	236-6220	1	SENSOR GP-PRESSURE (INJECTION ACTUATION)						372
Y	8	1	236-6221	1	SENSOR GP-SPEED (ENGINE SPEED, TIMING)						374
	9	1	3E-4352	1	WASHER-HARD (8.8X20.5X2.5-MM THK)						
M	10	1	6V-3940	1	BOLT (M8X1.25X25-MM)						
	11	1	6V-5048	1	SEAL-O-RING						
	12	1	6V-5049	1	SEAL-O-RING						
	13	1	9X-0261	1	ADAPTER						

M- METRIC PART

Y- SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01277127

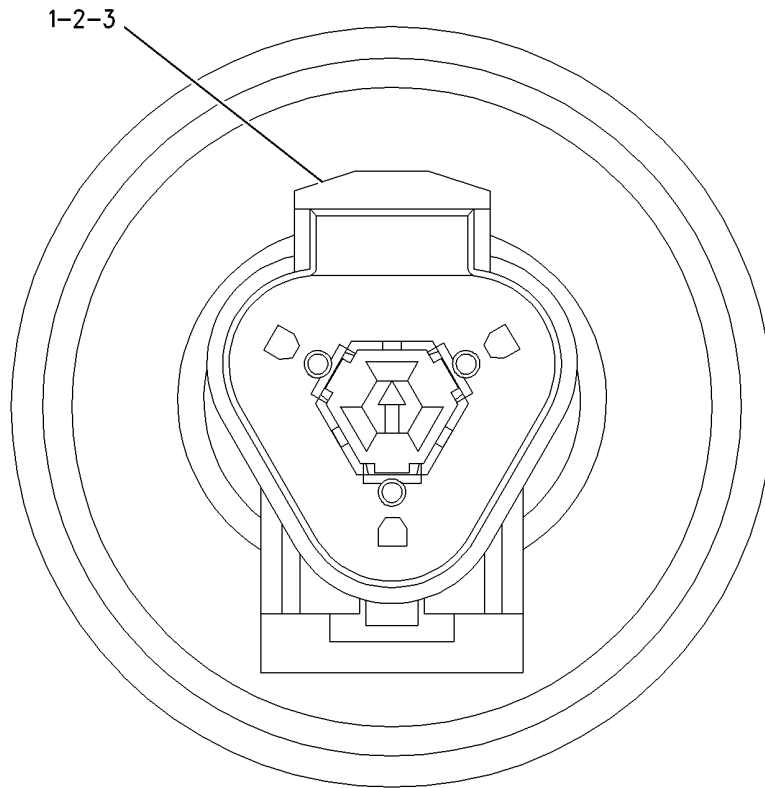
ELECTRICAL AND STARTING SYSTEM

165-6634 SENSOR GP-LIQUID LEVEL-WATER, COOLANT AN ATTACHMENT

SMCS-7422

i02586006

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)						
					(INCLUDES RECEPTACLE AS AND WEDGE)						
	2	1	3E-3371	1	WEDGE-RECEPTACLE LOCK (3-PIN)						
	3	1	186-3735	1	PIN-CONNECTOR (16-GA TO 18-GA)						



FRONT VIEW

GRAPHIC #1

<END>

g00785373

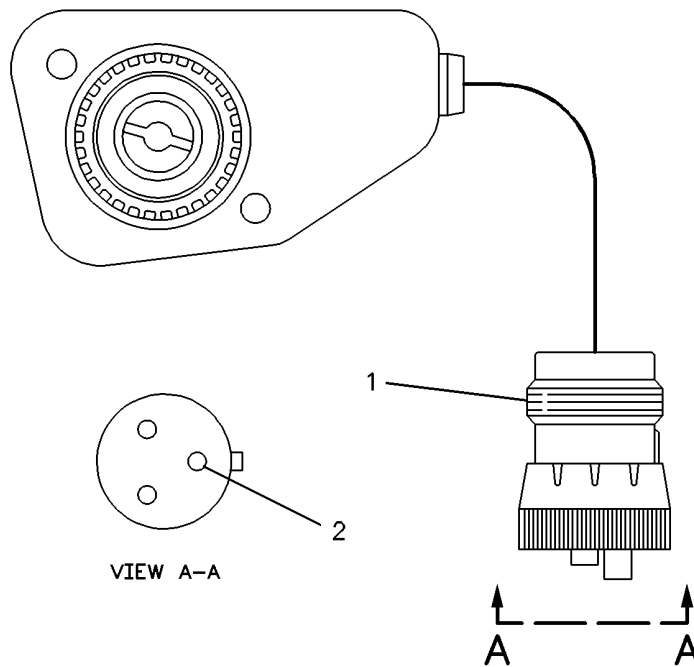
ELECTRICAL AND STARTING SYSTEM

219-2384 SENSOR GP-POSITION-ENGINE SPEED PART OF 134-0597 CONTROL GP-ENGINE SPEED AN ATTACHMENT

SMCS-1905, 1911

i01820531

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

<END>

g00083170

ELECTRICAL AND STARTING SYSTEM

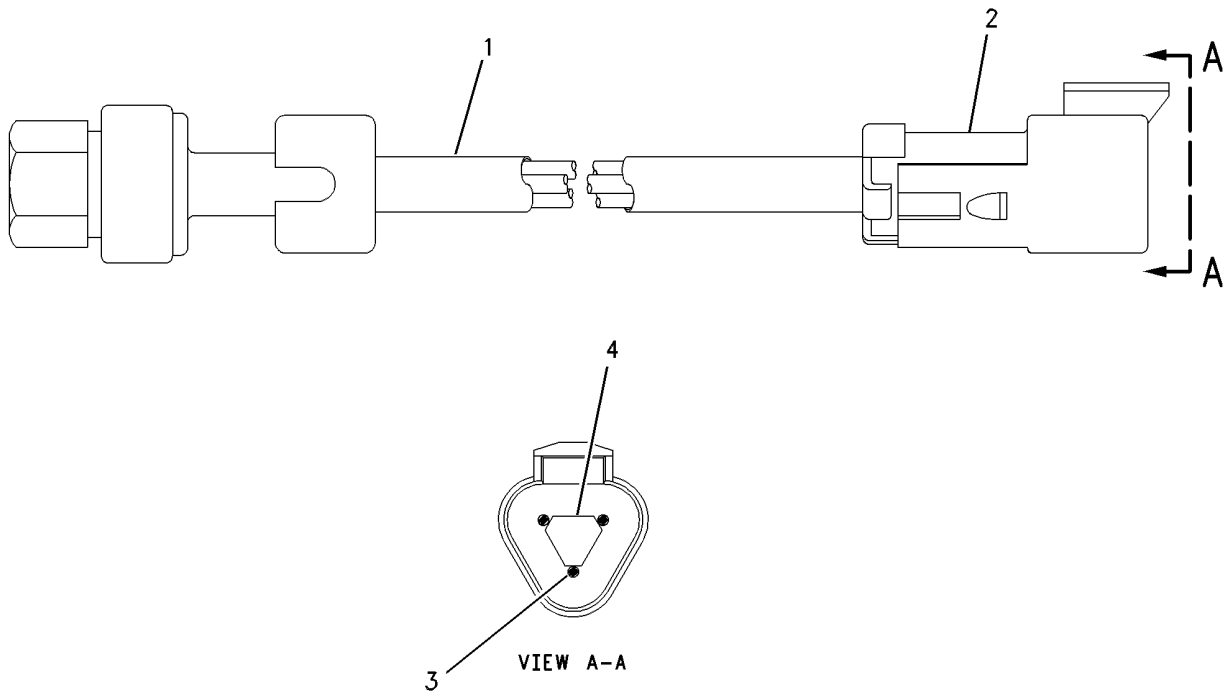
161-9932 SENSOR GP-PRESSURE-AUXILIARY AN ATTACHMENT

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

i02581184

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
E	1	1	9X-1386		SLEEVE (15-CM)						
	2	1	102-8803	1	KIT-RECEPTACLE (3-PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
	3	1	186-3735	3	PIN-CONNECTOR (16-GA TO 18-GA)						
	4	1	3E-3371	1	WEDGE-RECEPTACLE LOCK (3-PIN)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g00612982

ELECTRICAL AND STARTING SYSTEM

194-6725 SENSOR GP-PRESSURE-FUEL

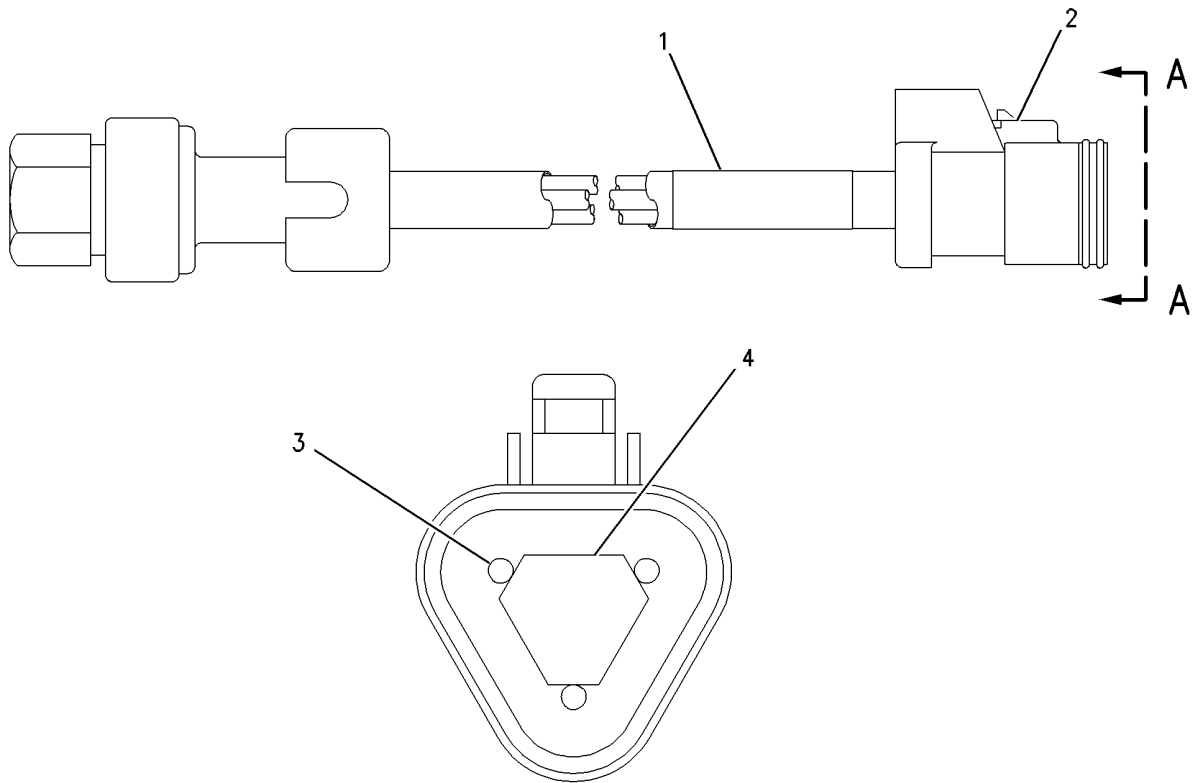
PART OF 239-2396 SENSOR GP-PRESSURE
AN ATTACHMENT

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

i02301143

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
E	1	1	9X-1813		SLEEVE (34-CM)						
	2	1	155-2260	1	KIT-CONNECTING PLUG (3-PIN) (INCLUDES PLUG AS AND WEDGE)						
	3	1	180-9340	3	SOCKET-CONNECTOR						
	4	1	3E-3368	1	WEDGE-PLUG LOCK (3-PIN)						

E-ORDER BY THE CENTIMETER



VIEW A-A

GRAPHIC #1

<END>

g00851220

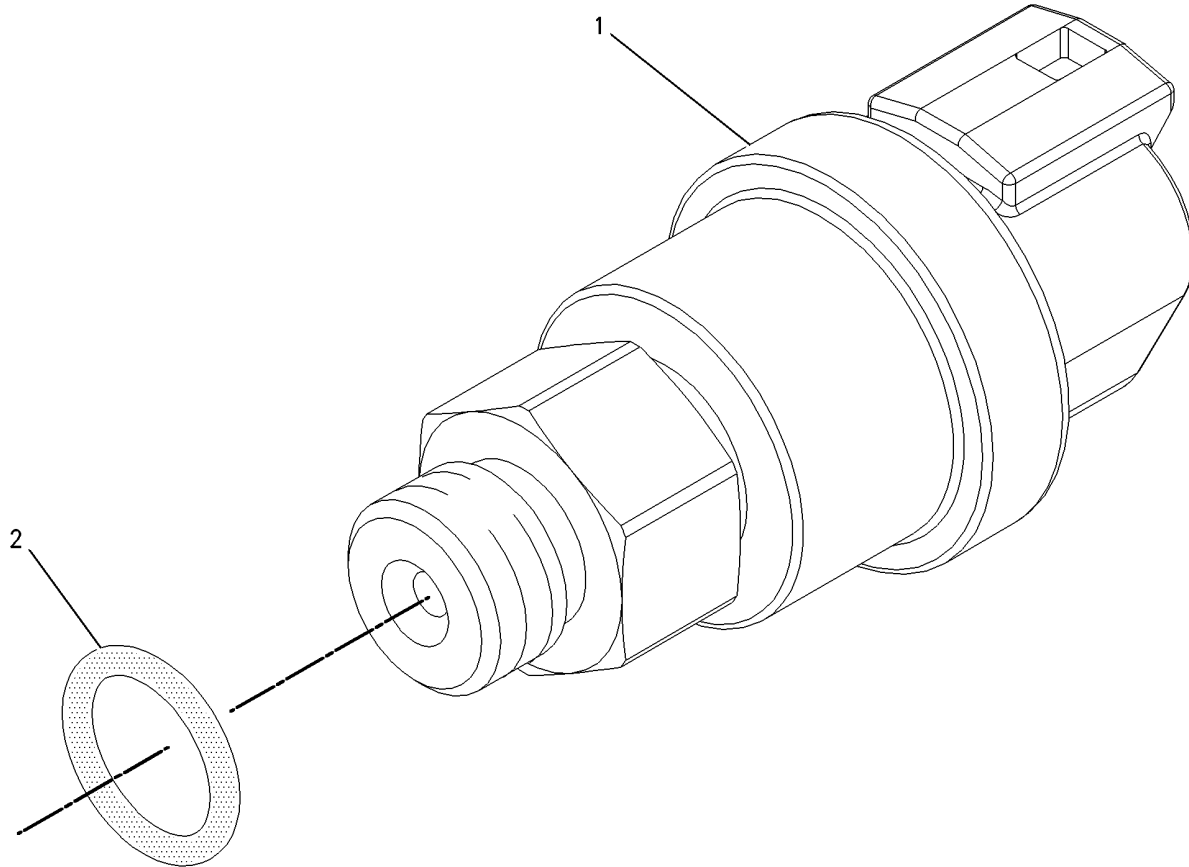
ELECTRICAL AND STARTING SYSTEM

197-8393 SENSOR GP-PRESSURE-ATMOSPHERIC AIR PART OF 231-1978, 260-6885 SENSOR GP-ENGINE AN ATTACHMENT

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

i02343514

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-1703	1	SENSOR GP-PRESSURE						
	2	1	6V-5049	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00855973

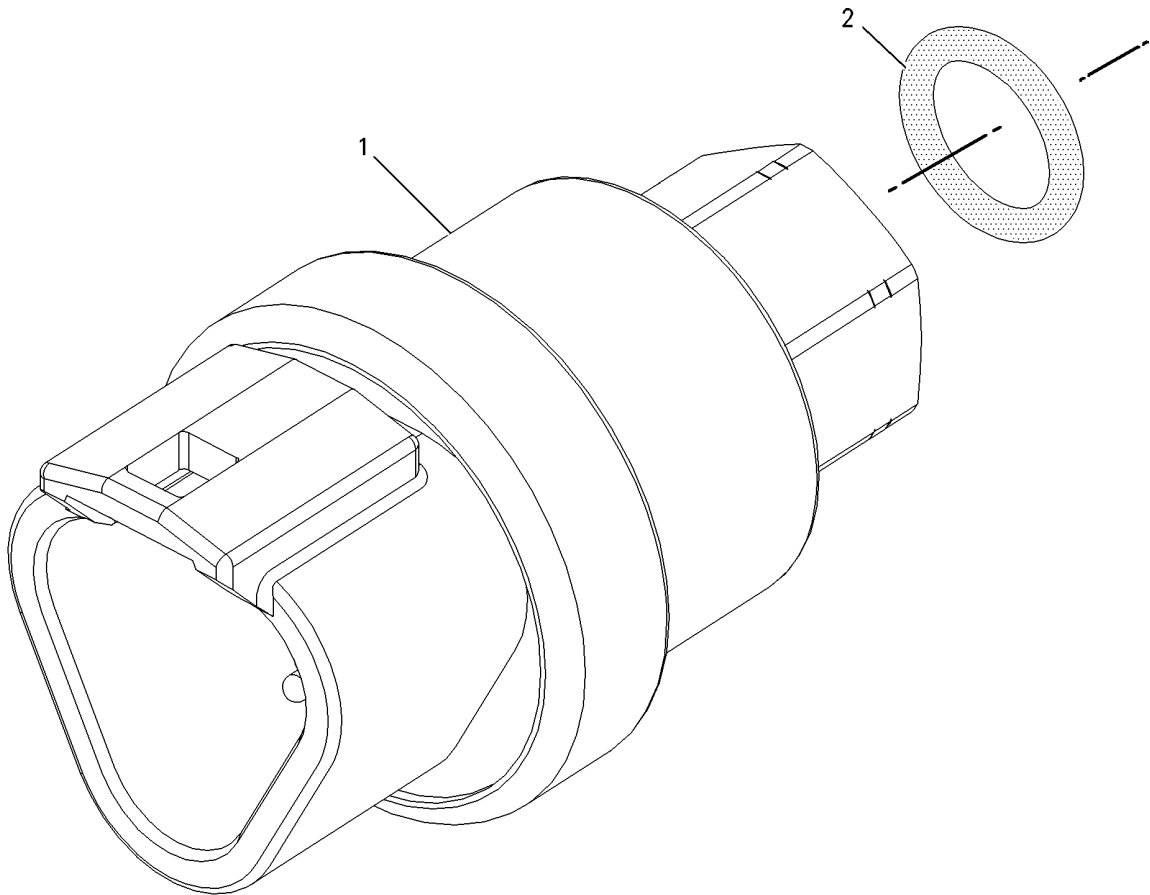
ELECTRICAL AND STARTING SYSTEM

197-8394 SENSOR GP-PRESSURE-ENGINE OIL PART OF 231-1978, 260-6885 SENSOR GP-ENGINE AN ATTACHMENT

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

i02580801

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-1705	1	SENSOR AS-PRESSURE						
	2	1	6V-5048	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00856107

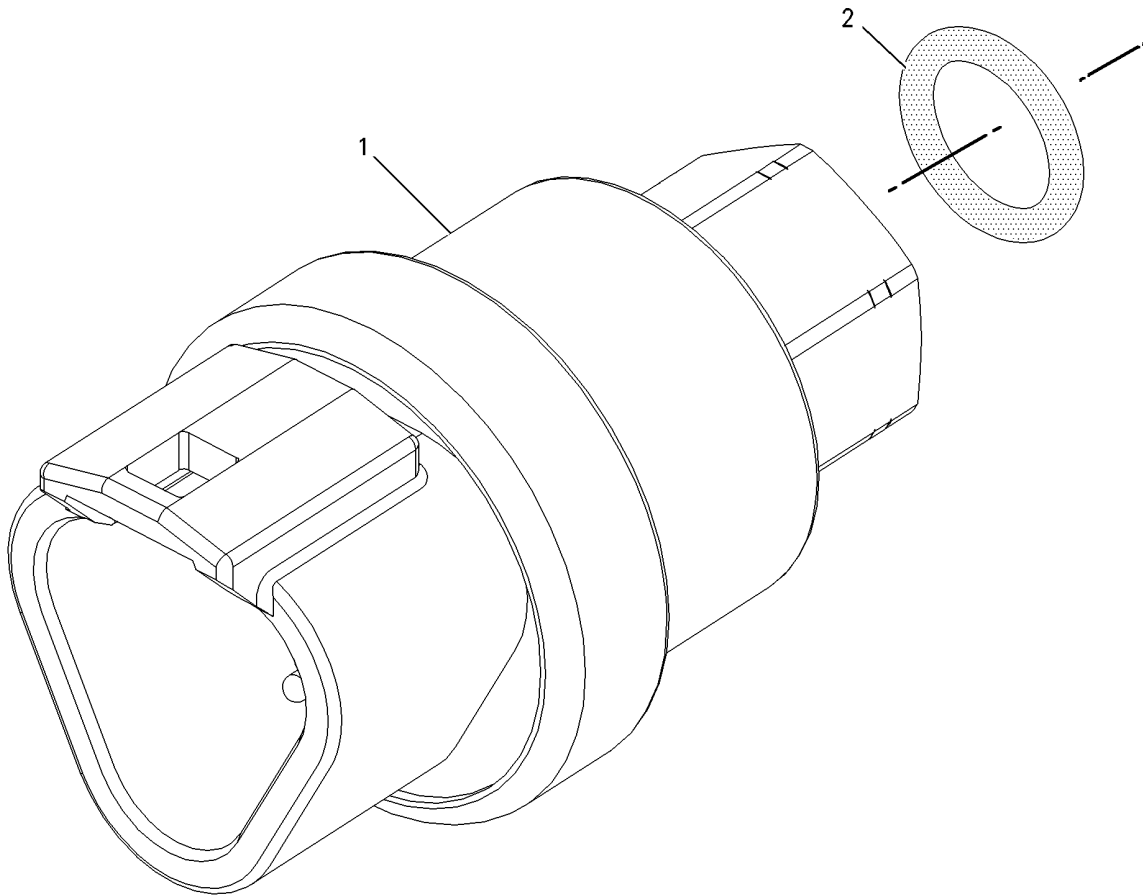
ELECTRICAL AND STARTING SYSTEM

210-1747 SENSOR GP-PRESSURE-AIR INLET MANIFOLD PART OF 231-1978, 260-6885 SENSOR GP-ENGINE AN ATTACHMENT

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

i02343512

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	161-1704	1	SENSOR GP-PRESSURE						
	2	1	6V-5048	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00856107

ELECTRICAL AND STARTING SYSTEM

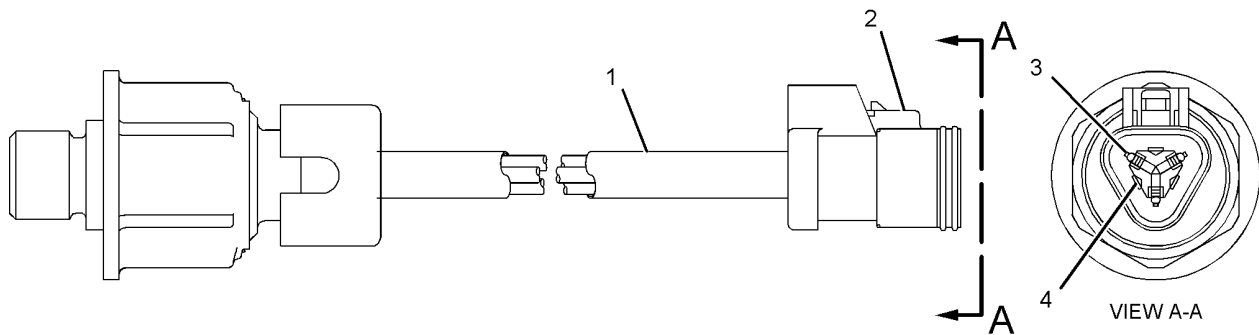
224-4536 SENSOR GP-PRESSURE-INJECTION ACTUATION PART OF 236-6220 SENSOR GP-PRESSURE AN ATTACHMENT

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

i02326547

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
E	1	1	9X-1813		SLEEVE (35-CM)						
	2	1	155-2260	1	KIT-CONNECTING PLUG (3-PIN) (INCLUDES PLUG AS AND WEDGE)						
	3	1	194-5226	1	WIRE AS-HARNESS (16-GA TO 18-GA) (INJECTION ACTUATION)						
					-OR-						
		1	194-5227	1	WIRE AS-HARNESS (14-GA WIRE) (INJECTION ACTUATION)						
	4	1	155-2276	1	WEDGE-PLUG LOCK (3-PIN)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01040301

ELECTRICAL AND STARTING SYSTEM

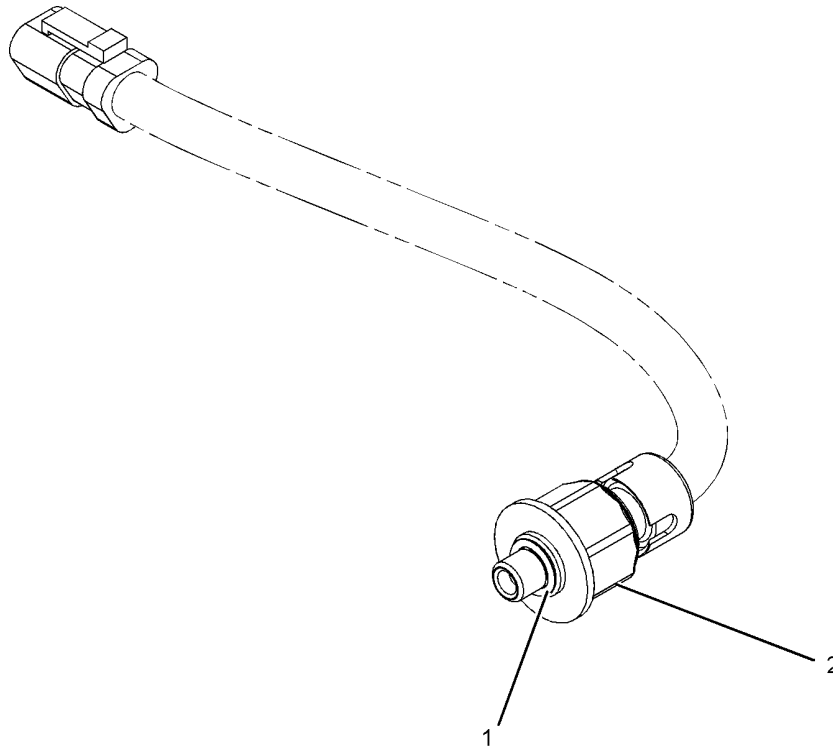
236-6220 SENSOR GP-PRESSURE-INJECTION ACTUATION PART OF 231-1978, 260-6885 SENSOR GP-ENGINE AN ATTACHMENT

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

i02502178

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	214-7567	1	SEAL-O-RING	
Y	2	1	224-4536	1	SENSOR GP-PRESSURE	371

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01054528

ELECTRICAL AND STARTING SYSTEM

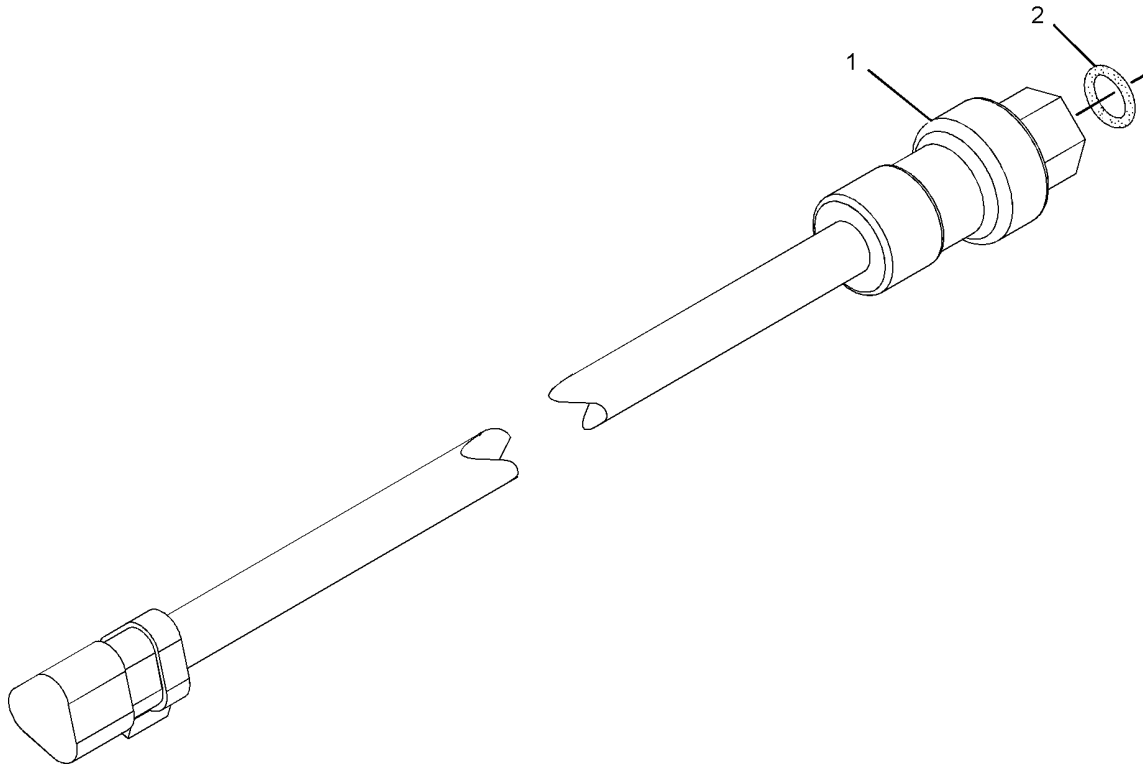
239-2396 SENSOR GP-PRESSURE-FUEL PART OF 252-5562, 260-6882, 263-2182 LINES GP-FUEL FILTER AN ATTACHMENT

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

i02603819

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	194-6725	1	SENSOR GP-PRESSURE						367
	2	1	6V-5048	1	SEAL-O-RING						

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01057563

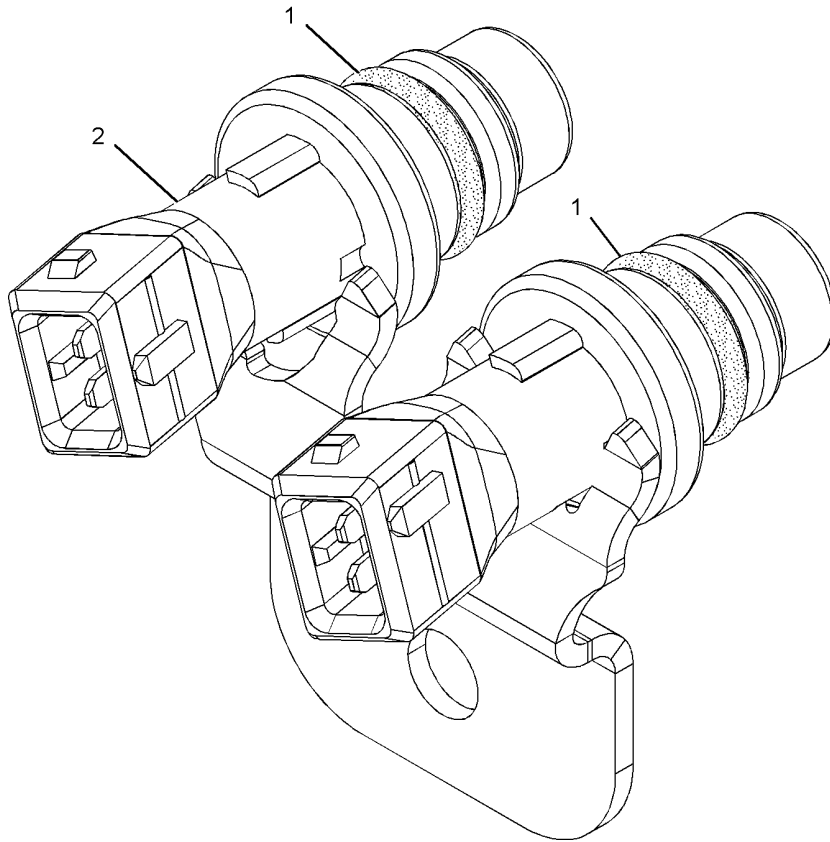
ELECTRICAL AND STARTING SYSTEM

236-6221 SENSOR GP-SPEED-ENGINE TIMING PART OF 231-1978, 260-6885 SENSOR GP-ENGINE AN ATTACHMENT

SMCS-1907

i02139097

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	203-3940	2	SEAL-O-RING						
	2	1	245-4630	1	SENSOR GP-SPEED						



GRAPHIC #1

<END>

g01013894

ELECTRICAL AND STARTING SYSTEM

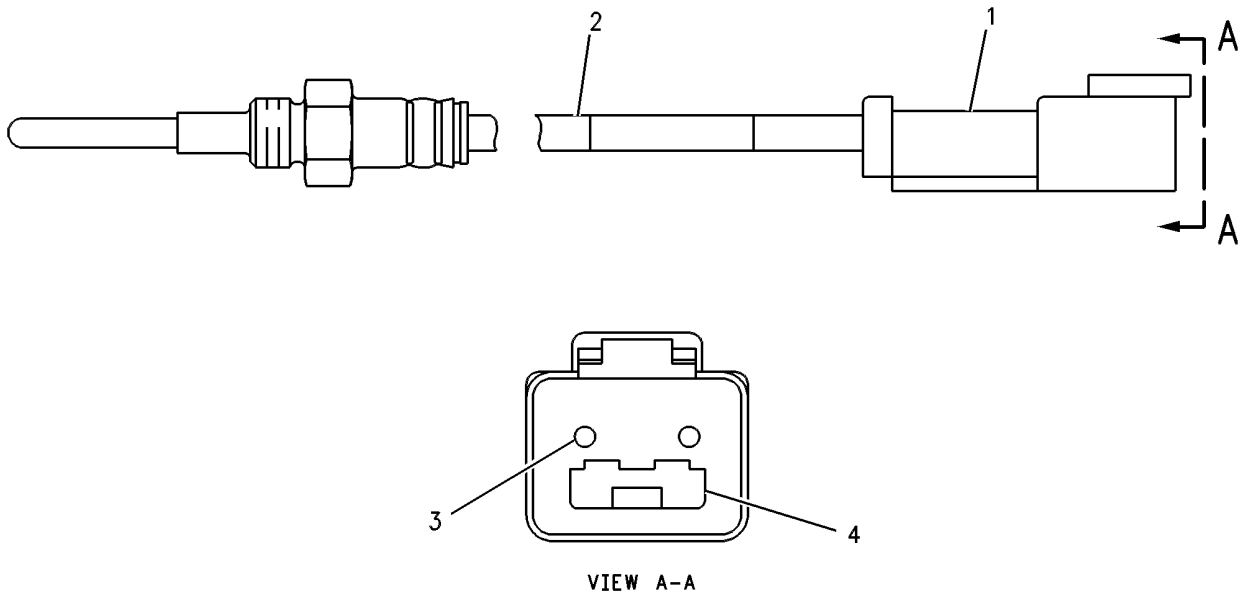
145-7028 SENSOR GP-TEMPERATURE-AUXILIARY PART OF 229-9985 SENSOR GP-TEMPERATURE AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i02222923

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) (INCLUDES RECEPTACLE AS AND WEDGE)						
E	2	1	153-5043		SLEEVE (3-CM)						
	3	1	8T-8729	2	PIN-CONNECTOR						
	4	1	3E-3365	1	WEDGE-RECEPTACLE LOCK (2-PIN)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g00334570

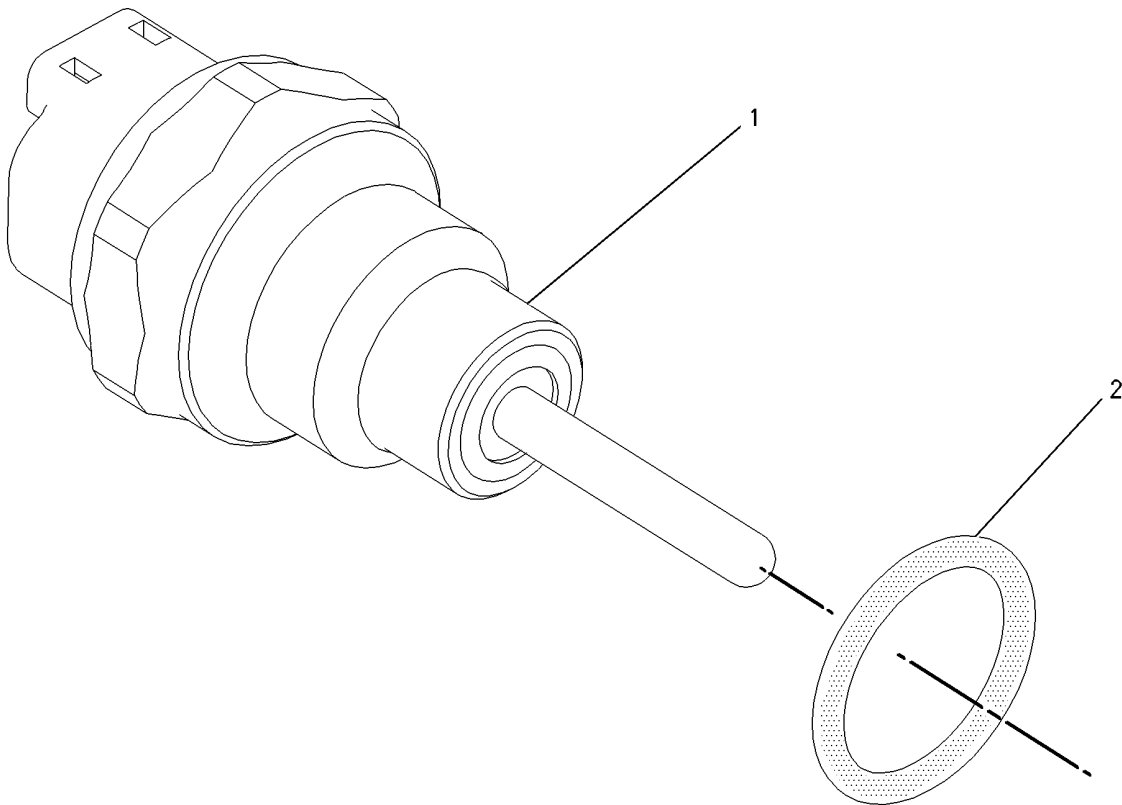
ELECTRICAL AND STARTING SYSTEM

197-8391 SENSOR GP-TEMPERATURE-AIR INLET MANIFOLD PART OF 260-6885 SENSOR GP-ENGINE AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i02538190

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 (2-PIN)						
	2	1	8L-2786	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00856011

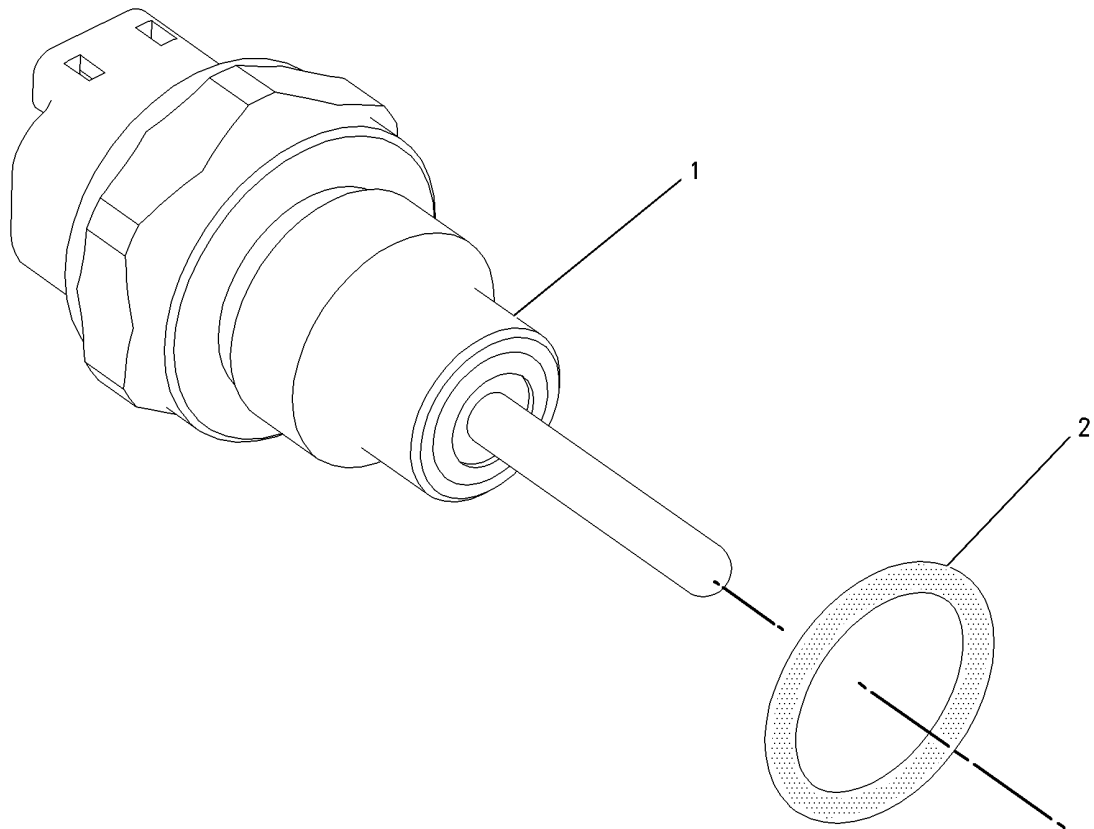
ELECTRICAL AND STARTING SYSTEM

197-8392 SENSOR GP-TEMPERATURE-COOLANT, WATER PART OF 260-6885 SENSOR GP-ENGINE AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i02266451

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 (2-PIN)						
	2	1	6V-6609	1	SEAL-O-RING						



GRAPHIC #1

<END>

g00856005

ELECTRICAL AND STARTING SYSTEM

229-9985 SENSOR GP-TEMPERATURE-AUXILIARY

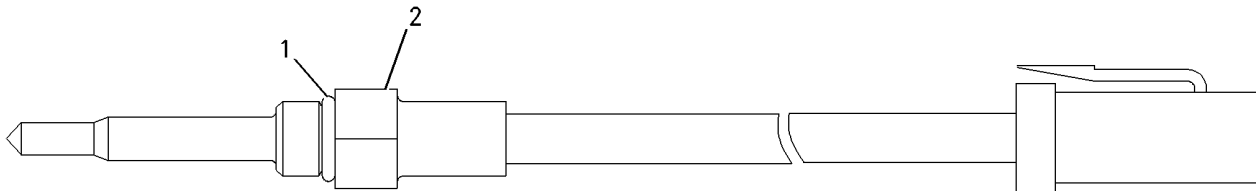
AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i02443694

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	108-5803	1	SEAL-O-RING						
Y	2	1	145-7028	1	SENSOR GP-TEMPERATURE						375

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00950383

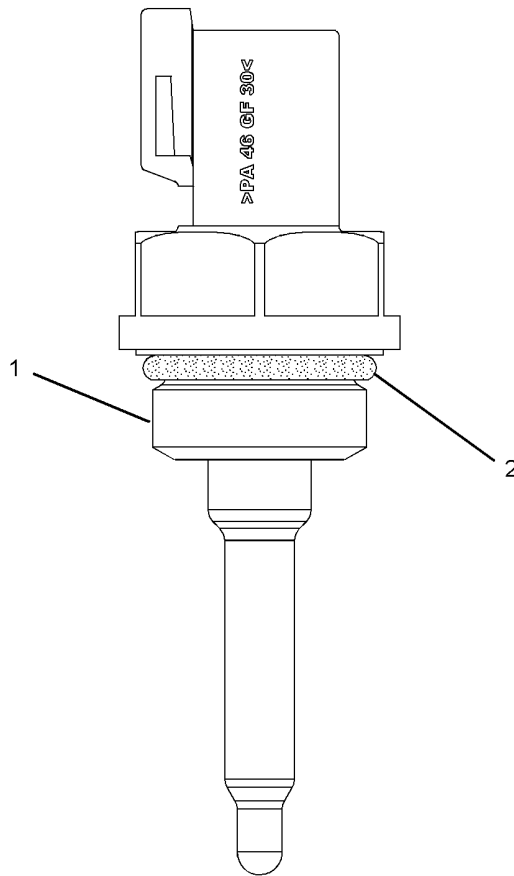
ELECTRICAL AND STARTING SYSTEM

274-7395 SENSOR GP-TEMPERATURE-AIR INLET MANIFOLD PART OF 231-1978 SENSOR GP-ENGINE AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i02515124

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1		264-4297	1	SENSOR GP-TEMPERATURE						
	2	1	8L-2786	1	SEAL-O-RING						



GRAPHIC #1

<END>

g01193032

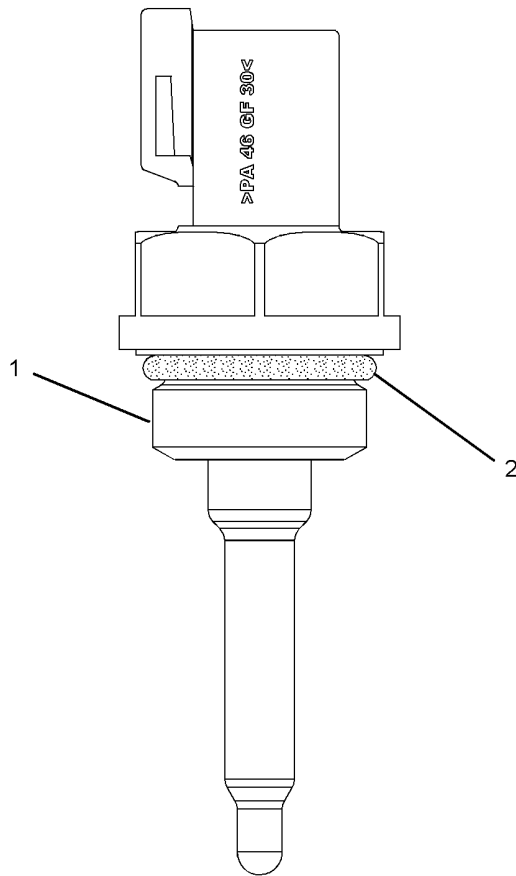
ELECTRICAL AND STARTING SYSTEM

274-7396 SENSOR GP-TEMPERATURE-COOLANT, WATER PART OF 231-1978 SENSOR GP-ENGINE AN ATTACHMENT

SMCS-1906, 1919, 1921, 1922, 1928, 1929

i02515155

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	264-4297	1	SENSOR GP-TEMPERATURE						
	2	1	6V-6609	1	SEAL-O-RING						



GRAPHIC #1

<END>

g01193032

ELECTRICAL AND STARTING SYSTEM

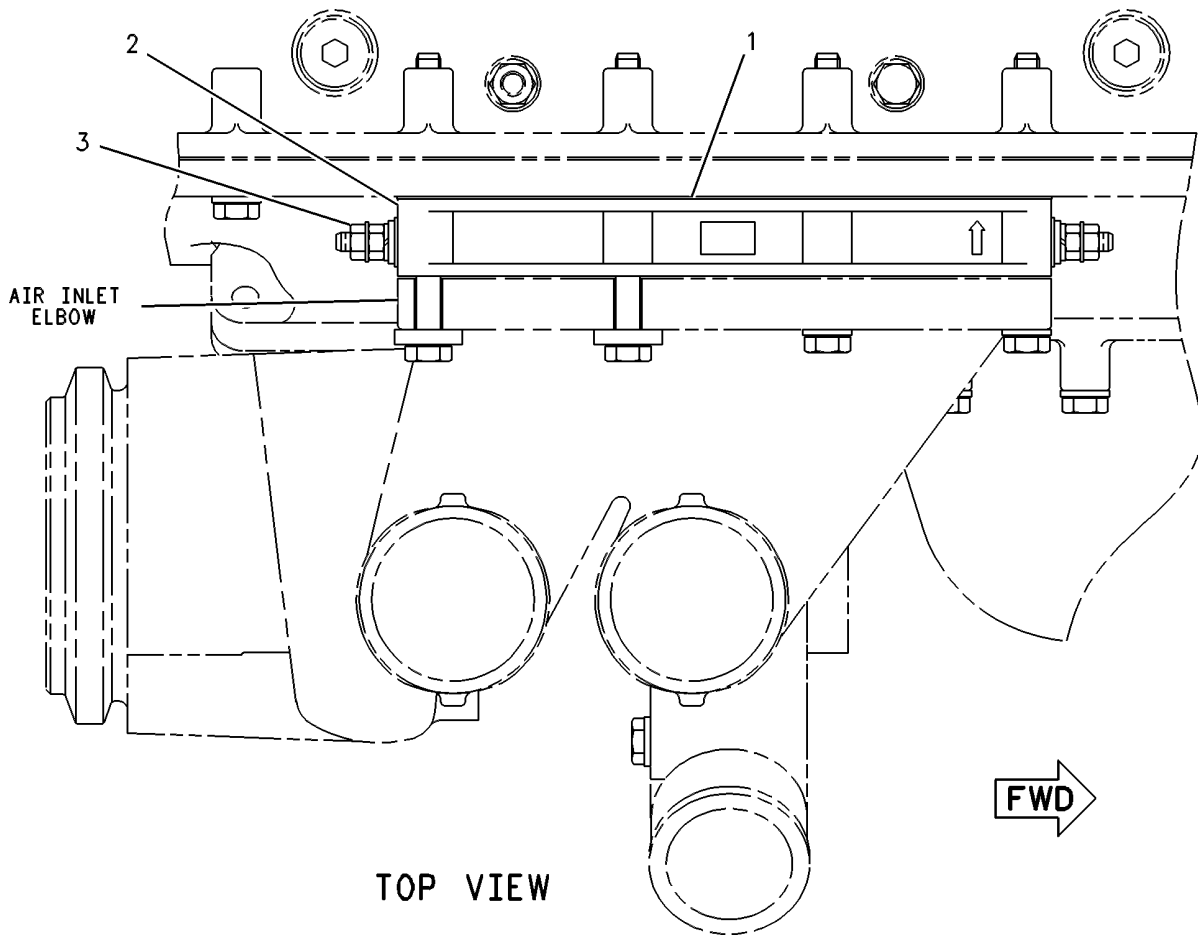
118-7284 STARTING AID GP-AIR INLET HEATER 24-VOLT AN ATTACHMENT

SMCS-1090

i02023661

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						
	2	1	159-3537	1	HEATER AS-AIR INLET (22-VOLT, 1892-WATT) (AIR INLET)						
M	3	1	5C-2890	2	NUT (M6X1-THD)						

B-USE AS REQUIRED
M-METRIC PART



GRAPHIC #1

<END>

g00250922

ELECTRICAL AND STARTING SYSTEM

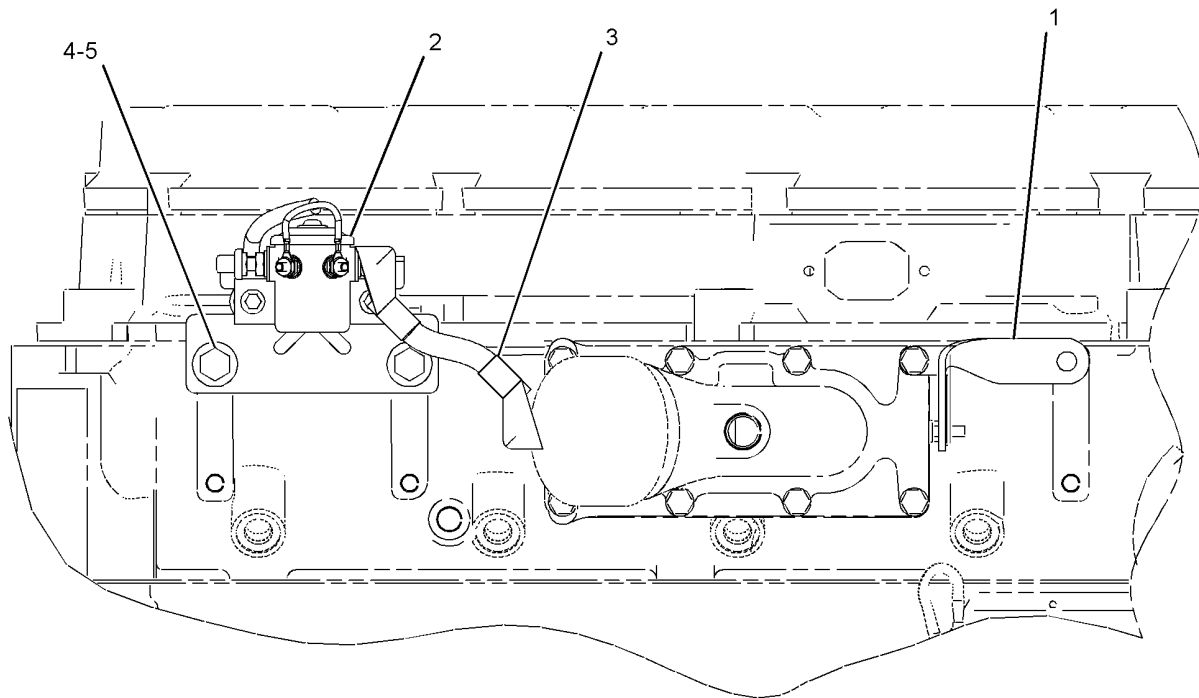
209-2107 STARTING AID GP-SWITCH, WIRING 12-VOLT AN ATTACHMENT

SMCS-1090

i02274111

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	180-8292	1	STRAP-GROUNDING	
Y	2	1	212-7766	1	SWITCH GP-MAGNETIC (12-VOLT) (AIR INLET HEATER)	414
	3	1	226-0903	1	CABLE AS	
	4	1	3E-4353	2	WASHER-HARD (11X25X3-MM THK)	
M	5	1	6V-6317	2	BOLT (M10X1.5X20-MM)	

M-METRIC PART
Y-SEPARATE ILLUSTRATION



LEFT SIDE VIEW

GRAPHIC #1

<END>

g01138813

ELECTRICAL AND STARTING SYSTEM

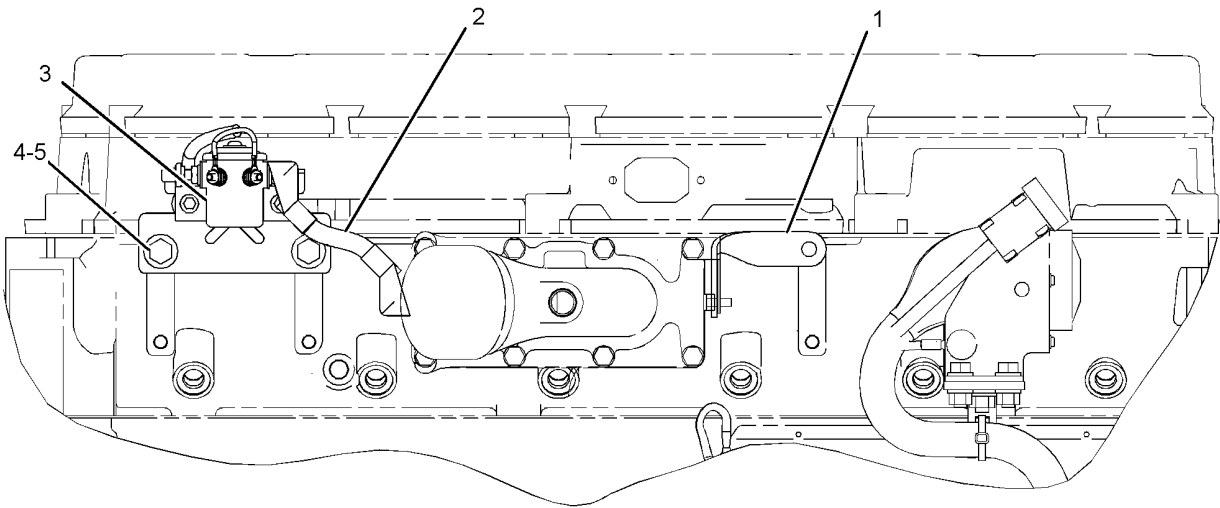
209-2108 STARTING AID GP-SWITCH, WIRING 24-VOLT AN ATTACHMENT

SMCS-1090

i02298778

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	180-8292	1	STRAP-GROUNDING						
	2	1	226-0903	1	CABLE AS (GROUND)						
Y	3	1	223-4453	1	SWITCH GP-MAGNETIC (24-VOLT) (AIR INLET HEATER)						416
	4	1	3E-4353	2	WASHER-HARD (11X25X3-MM THK)						
M	5	1	6V-6317	2	BOLT (M10X1.5X20-MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



LEFT SIDE VIEW

GRAPHIC #1

<END>

g01151279

ELECTRICAL AND STARTING SYSTEM

6V-4215 STARTING MOTOR GP-ELECTRIC

PART OF 201-9915 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

i02437573

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	5S-7349	4	BOLT (1/4-20X0.5-IN)	
	2	1	3T-3434	6	PLUG	
	3	1	2H-3429	1	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	7L-2894	1	GASKET	
	8	1	036-9823	5	BOLT (1/4-28X1-IN)	
	9	1	8T-8568	1	COIL AS-FIELD	
	10	1	3F-0379	8	SCREW-POLE SHOE (3/8-24-THD)	
	11	1	7T-3275	1	ARMATURE AS (12-VOLT)	
	12	1	8H-1141	4	SHOE-POLE	
	13	1	7T-3454	1	INSULATOR	
	14	1	7T-3279	1	HOUSING AS	
	15	1	8T-8570	1	HOLDER AS-BRUSH	
	16	1	3T-3422	1	WIRE AS	
	17	1	8T-8566	1	TERMINAL AS	
	18	1	8T-4205	4	WASHER-HARD (7.2X14.5X2-MM THK)	
	19	1	6V-8188	4	NUT (1/2-13-THD)	
	20	1	7X-0562	4	WASHER-HARD (13.5X19X0.8-MM THK)	
	21	1	9X-4824	1	COVER-STARTING MOTOR	
	22	1	7T-3451	1	INSULATOR-TERMINAL	
	23	1	8T-8569	1	INSULATOR-TERMINAL	
	24	1	3E-5449	1	SOLENOID AS-STARTING MOTOR (12-VOLT)	
		1	206-8787	1	KIT-SOLENOID (KIT INCLUDES: SOLENOID AS, COVER, BOLT, AND NUTS)	
	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 (SHIFT LEVER)	
	29	1	4M-1828	1	RETAINER-SPRING	
	30	1	4M-1827	1	RETAINER-SPRING	
	31	1	4M-1831	1	PLUG-LEVER HOUSING	
	32	1	3E-7775	1	HOUSING AS	
	33	1	7T-3974	1	HOUSING AS-DRIVE	
	34	1	7X-3373	6	BOLT (5/16-18X0.88-IN)	
	35	1	6N-3827	1	DRIVE AS-MOTOR	
	36	1	8T-0328	3	WASHER-HARD (5.5X10X1-MM THK)	
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	
LZ		1		1	BUSHING	
NZ	43	1		1	LEVER AS	
NZ	44	1		1	LEVER AS	
NPZ	45	1		1	NUT	
NPZ	46	1		1	SEAL (O-RING)	
PZ	47	1		1	SEAL (O-RING)	
NZ	48	1		1	RETAINER	
PZ	49	1		1	BUSHING	
PZ	50	1		1	BUSHING	
PZ	51	1		2	CUP (PLUG)	
PZ	52	1		1	CUP (PLUG)	

ELECTRICAL AND STARTING SYSTEM

6V-4215 STARTING MOTOR GP-ELECTRIC (contd.)

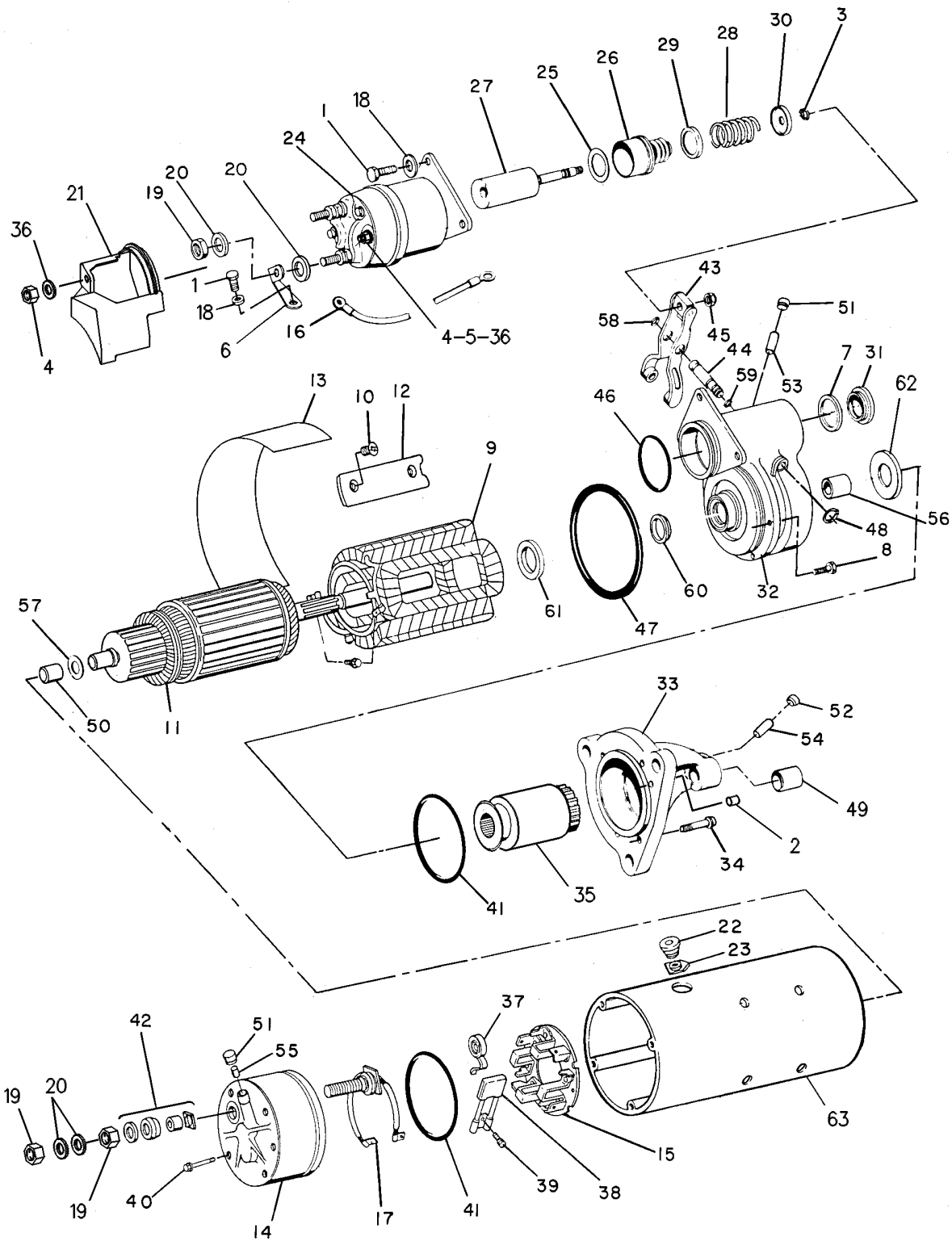
i02437573

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
PZ	53	1		1	PLUG						
PZ	54	1		1	PLUG						
PZ	55	1		1	PLUG						
PZ	56	1		1	BUSHING						
PZ	57	1		1	WASHER						
NZ	58	1		1	SEAL (O-RING)						
NZ	59	1		1	SEAL (O-RING)						
PZ	60	1		1	RETAINER (SEAL)						
PZ	61	1		1	SPACER						
PZ	62	1		1	GASKET (WASHER)						
Z	63	1		1	HOUSING						
AVAILABLE REPAIR KIT(S):											
J			8T-9885	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 INCLUDES PART(S) MARKED J											
L-KIT MARKED L INCLUDES PART(S) MARKED L											
N-KIT MARKED N INCLUDES PART(S) MARKED N											
P-KIT MARKED P INCLUDES PART(S) MARKED P											
Z-NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

6V-4215 STARTING MOTOR GP-ELECTRIC (contd.)

i02437573



GRAPHIC #1

<END>

g00238337

ELECTRICAL AND STARTING SYSTEM

6V-5538 STARTING MOTOR GP-ELECTRIC

24-VOLT

PART OF 207-1560 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 207-1560-PAGE 407

AN ATTACHMENT

SMCS-1453

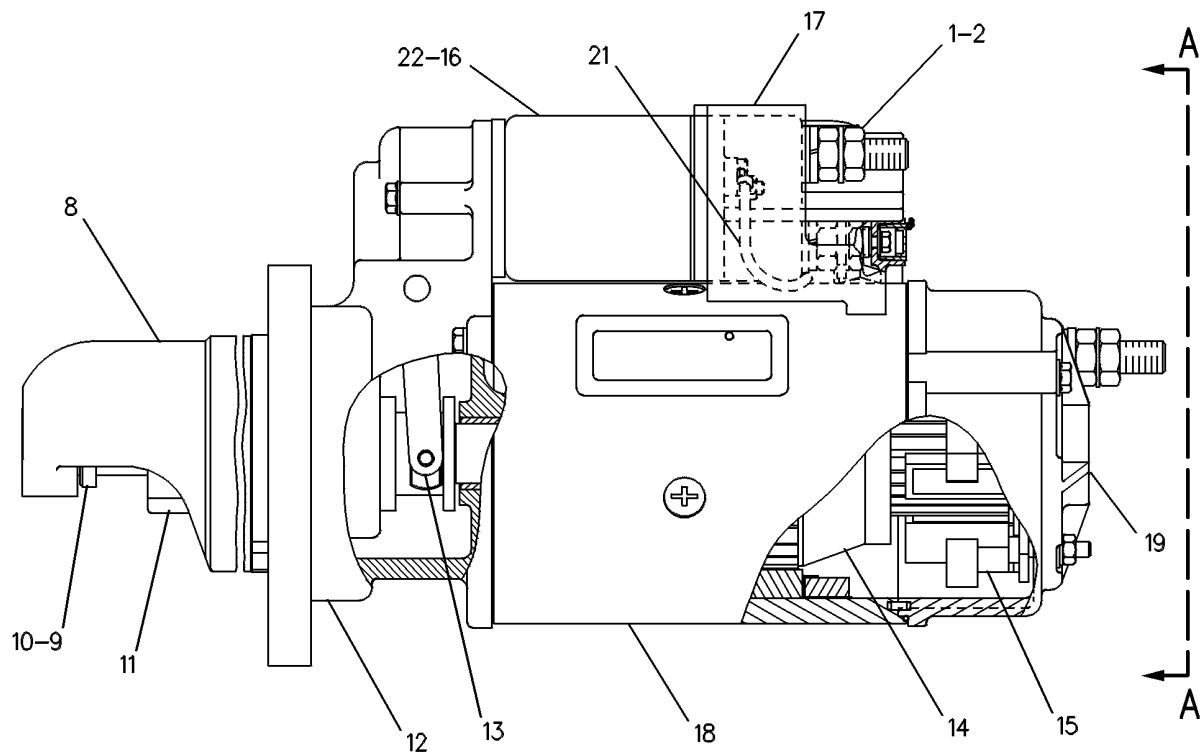
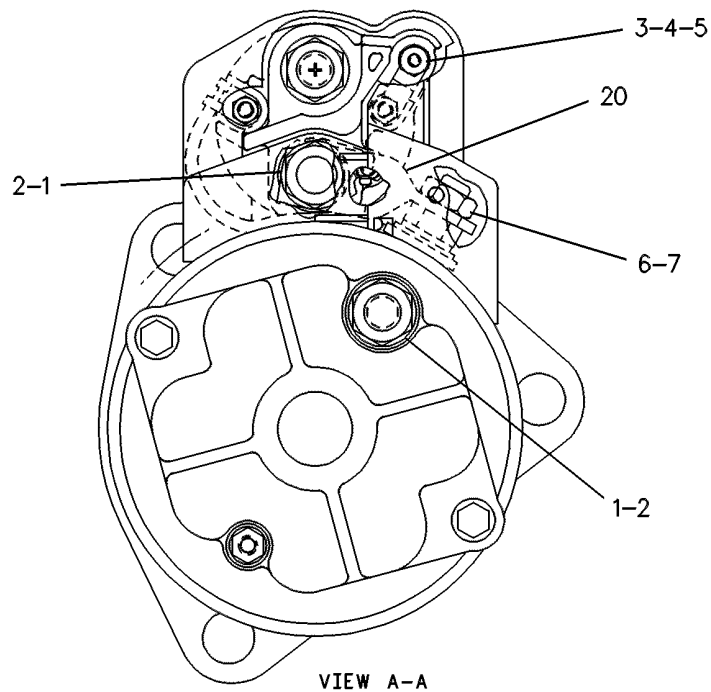
i02603820

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-8188	3	NUT (1/2-13-THD)						
	2	1	7X-0562	3	WASHER-HARD (13.5X19X0.8-MM THK)						
	3	1	4B-2049	1	NUT (10-32-THD)						
	4	1	8F-1434	1	LOCKWASHER						
	5	1	8T-0328	1	WASHER-HARD (5.5X10X1-MM THK)						
M	6	1	8T-4133	1	NUT (M10X1.5-THD)						
	7	1	8T-4121	1	WASHER-HARD (11X21X2.5-MM THK)						
	8	1	3E-0142	1	HOUSING AS						
	9	1	3E-0141	1	STOP-STARTING MOTOR						
	10	1	4N-7521	1	RING-LOCK						
	11	1	3E-0143	1	DRIVE AS-STARTING MOTOR						
	12	1	3E-0144	1	HOUSING AS						
	13	1	3E-0140	1	LEVER AS-STARTING MOTOR						
	14	1	3E-0138	1	ARMATURE AS (24-VOLT)						
	15	1	3E-0137	1	HOLDER AS-BRUSH (STARTING MOTOR)						
	16	1	3E-0135	1	SOLENOID AS (24-VOLT) (STARTING MOTOR)						
	17	1	3E-0125	1	COVER AS-STARTING MOTOR						
	18	1	3E-0139	1	HOUSING AS						
	19	1	3E-0136	1	HOUSING AS						
	20	1	3E-0132	1	CONNECTOR						
	21	1	3E-0133	1	WIRE AS-STARTING MOTOR						
	22	1	3E-0134	1	COVER-PLUNGER						
					AVAILABLE REPAIR KIT(S):						
			3E-0128	1	KIT-BRUSH (STARTING MOTOR) (INCLUDES O-RINGS, SCREW, SPRING, & BRUSH)						
			3E-0131	1	KIT-WASHER (STARTING MOTOR)						
			3E-0127	1	KIT-BEARING (STARTING MOTOR)						
			3E-0129	1	KIT-HARDWARE (STARTING MOTOR) (INCLUDES WASHERS, BOLTS, LOCKWASHERS, NUTS, BUSHINGS, & PLATE)						
			3E-0130	1	KIT-STARTING MOTOR SEAL (INCLUDES SEALS & O-RINGS)						
			3E-0145	1	KIT-STARTING MOTOR PIN (INCLUDES O-RINGS, SHAFT, AND RING)						
M-METRIC PART											

ELECTRICAL AND STARTING SYSTEM

6V-5538 STARTING MOTOR GP-ELECTRIC (contd.)

i02603820



GRAPHIC #1

<END>

g00108496

ELECTRICAL AND STARTING SYSTEM

6V-5582 STARTING MOTOR GP-ELECTRIC

24-VOLT

PART OF 207-1556 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 207-1556-PAGE 404

AN ATTACHMENT

SMCS-1453

i02186284

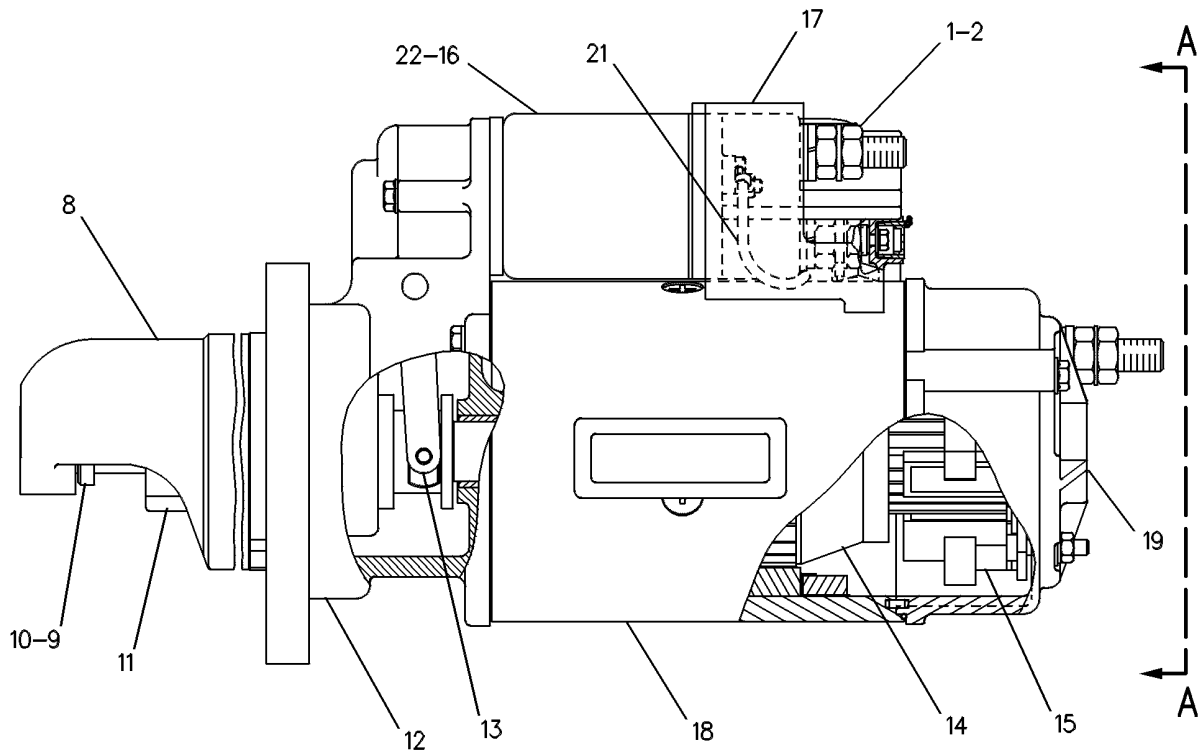
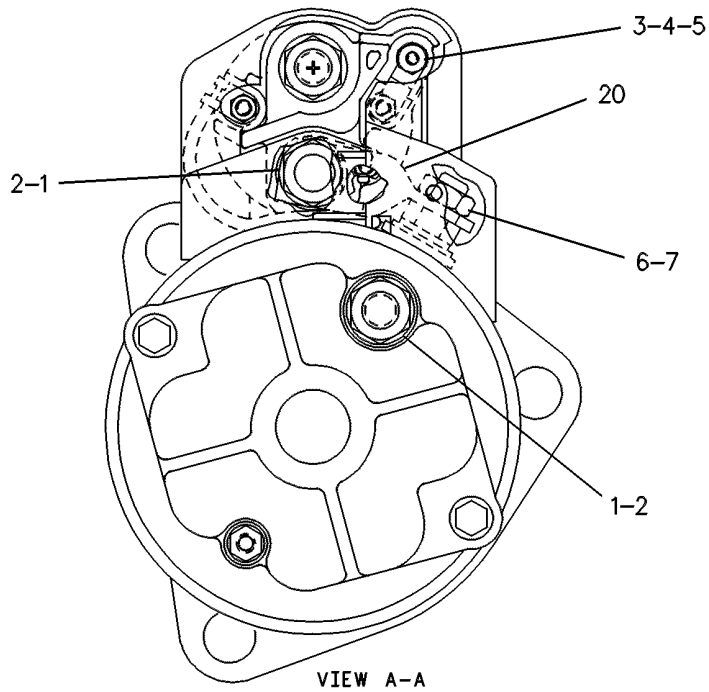
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6V-8188	3	NUT (1/2-13-THD)						
	2	1	7X-0562	3	WASHER-HARD (13.5X19X0.8-MM THK)						
	3	1	4B-2049	1	NUT (10-32-THD)						
	4	1	8F-1434	1	LOCKWASHER						
	5	1	8T-0328	1	WASHER-HARD (5.5X10X1-MM THK)						
M	6	1	8T-4133	1	NUT (M10X1.5-THD)						
	7	1	8T-4121	1	WASHER-HARD (11X21X2.5-MM THK)						
	8	1	3E-0142	1	HOUSING AS (DRIVE)						
	9	1	3E-0141	1	STOP-STARTING MOTOR						
	10	1	4N-7521	1	RING-LOCK						
	11	1	3E-0146	1	DRIVE AS-STARTING MOTOR						
	12	1	3E-0144	1	HOUSING AS (STARTER)						
	13	1	3E-0140	1	LEVER AS-STARTING MOTOR						
	14	1	3E-0138	1	ARMATURE AS (24-VOLT)						
	15	1	3E-0137	1	HOLDER AS-BRUSH (STARTING MOTOR)						
	16	1	3E-0135	1	SOLENOID AS (24-VOLT) (STARTING MOTOR)						
	17	1	3E-0125	1	COVER AS-STARTING MOTOR						
	18	1	3E-0139	1	HOUSING AS (STARTER)						
	19	1	3E-0136	1	HOUSING AS (STARTER)						
	20	1	3E-0132	1	CONNECTOR						
	21	1	3E-0133	1	WIRE AS-STARTING MOTOR						
	22	1	3E-0134	1	COVER-PLUNGER						
					AVAILABLE REPAIR KIT(S):						
			3E-0128	1	KIT-BRUSH (STARTING MOTOR) (INCLUDES O-RINGS, SCREW, SPRING, & BRUSH)						
			3E-0131	1	KIT-WASHER (STARTING MOTOR) (INCLUDES WASHERS)						
			3E-0127	1	KIT-BEARING (STARTING MOTOR) (INCLUDES BEARINGS)						
			3E-0129	1	KIT-HARDWARE (STARTING MOTOR) (INCLUDES WASHERS, BOLTS, LOCKWASHERS, NUTS, BUSHINGS, & PLATE)						
			3E-0130	1	KIT-STARTING MOTOR SEAL (INCLUDES SEALS & O-RINGS)						
			3E-0145	1	KIT-STARTING MOTOR PIN (INCLUDES O-RINGS, SHAFT, AND RING)						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

6V-5582 STARTING MOTOR GP-ELECTRIC (contd.)

i02186284



GRAPHIC #1

<END>

g00084516

ELECTRICAL AND STARTING SYSTEM

102-5836 STARTING MOTOR GP-ELECTRIC

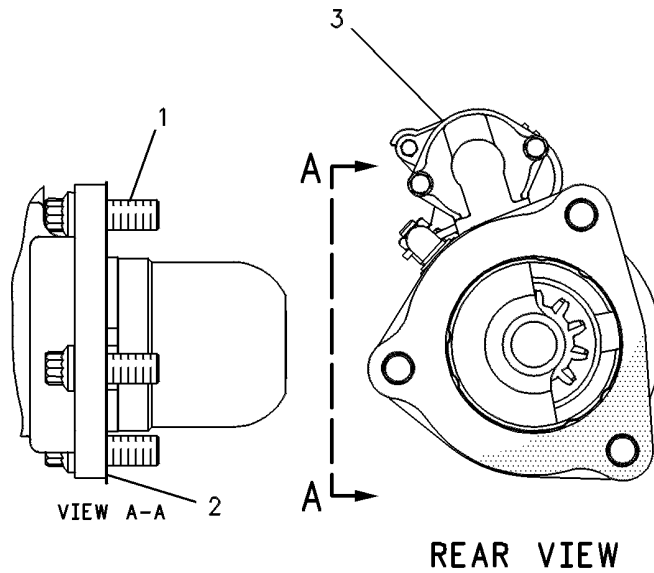
24-VOLT
AN ATTACHMENT

SMCS-1453

i02337266

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 (5/8-11X1.75-IN)						
C	2	1	4H-7869	1	GASKET						
CYR	3	1	207-1556	1	STARTING MOTOR GP-ELECTRIC						404

C-CHANGE FROM PREVIOUS TYPE
R-REMFG PART MAY BE AVAILABLE
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00235472

ELECTRICAL AND STARTING SYSTEM

111-2675 STARTING MOTOR GP-ELECTRIC

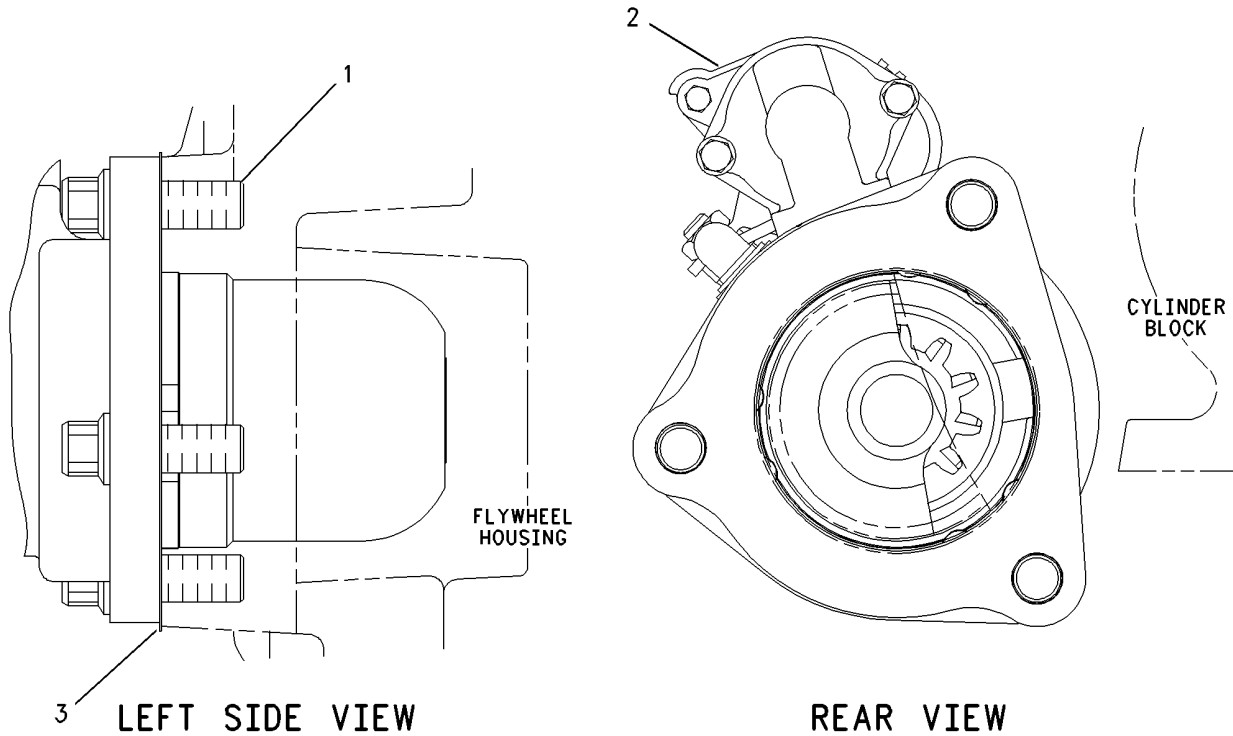
24-VOLT
AN ATTACHMENT

SMCS-1453

i02293191

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	8S-2332	3	BOLT-12 POINT HEAD (5/8-11X1.75-IN)	
Y	2	1	207-1548	1	STARTING MOTOR GP-ELECTRIC	399
	3	1	4H-7869	1	GASKET	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00829251

ELECTRICAL AND STARTING SYSTEM

131-3401 STARTING MOTOR GP-ELECTRIC

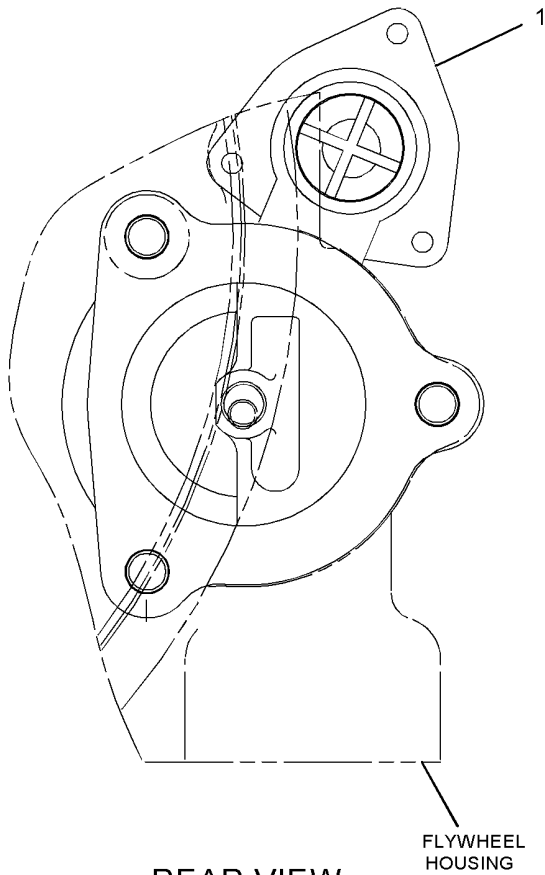
24-VOLT
AN ATTACHMENT

SMCS-1453

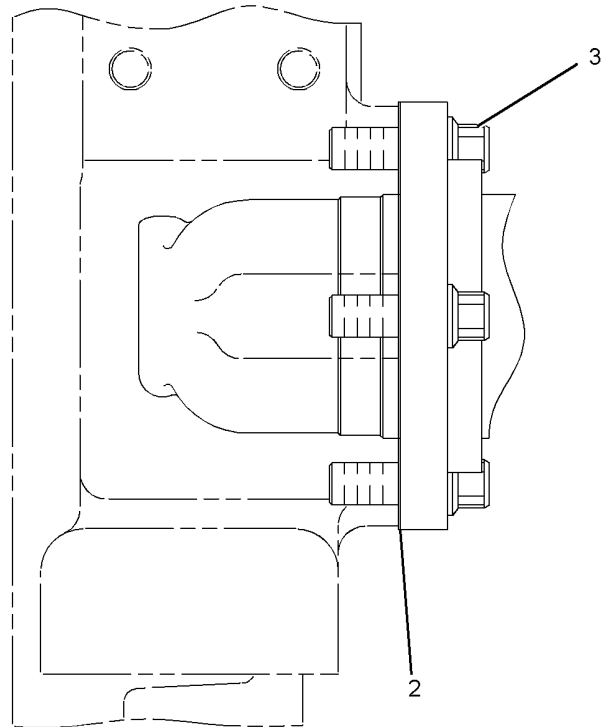
i02550843

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	207-1549	1	STARTING MOTOR GP-ELECTRIC						401
	2	1	155-8725	1	GASKET						
	3	1	176-2543	3	BOLT-12 POINT HEAD (5/8-11X1.75-IN)						

Y-SEPARATE ILLUSTRATION



REAR VIEW



RIGHT SIDE VIEW

GRAPHIC #1

<END>

g01124878

ELECTRICAL AND STARTING SYSTEM

149-5538 STARTING MOTOR GP-ELECTRIC

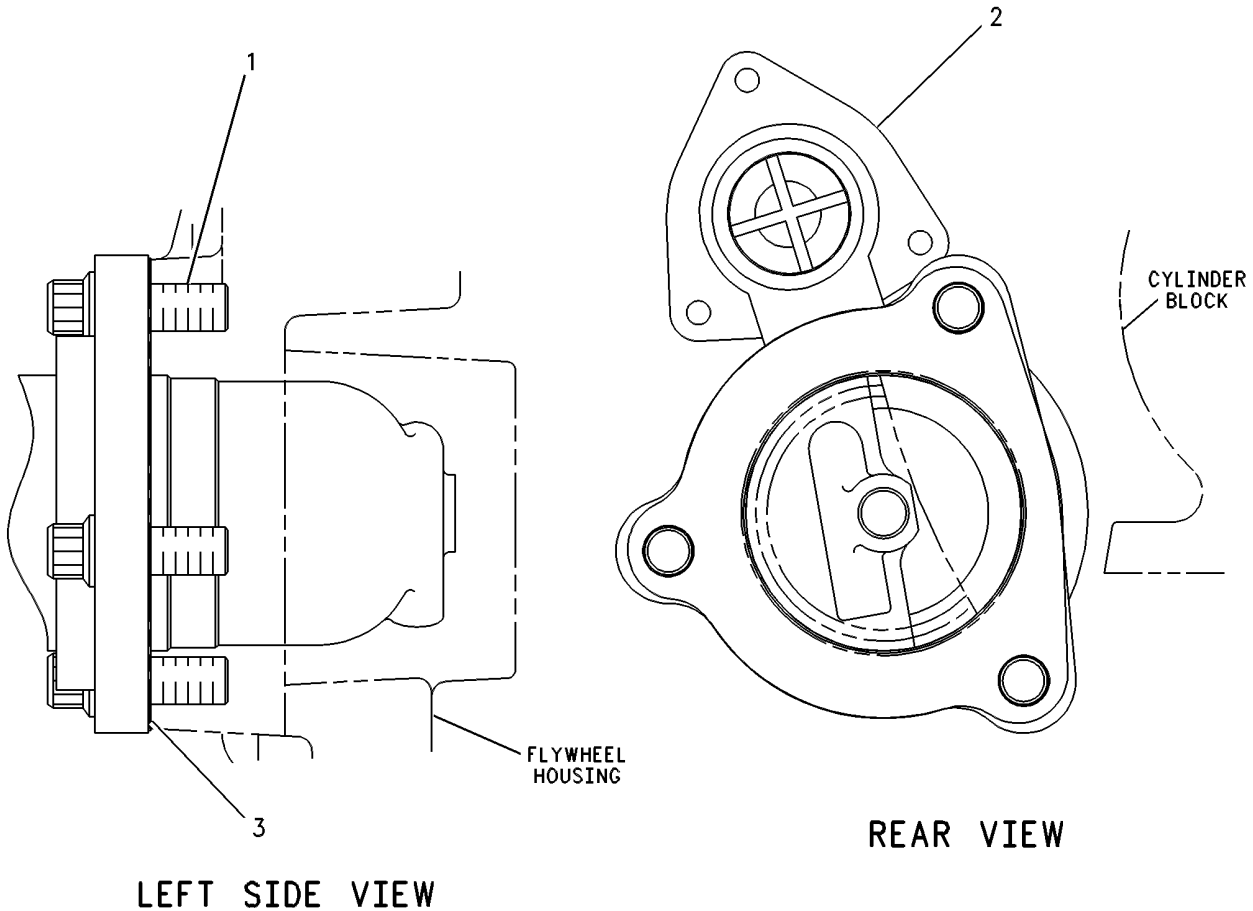
12-VOLT
AN ATTACHMENT

SMCS-1453

i02550857

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	8S-2332	3	BOLT-12 POINT HEAD (5/8-11X1.75-IN)	
Y	2	1	207-1521	1	STARTING MOTOR GP-ELECTRIC	397
	3	1	4H-7869	1	GASKET	

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00285252

ELECTRICAL AND STARTING SYSTEM

171-5288 STARTING MOTOR GP-ELECTRIC

24-VOLT

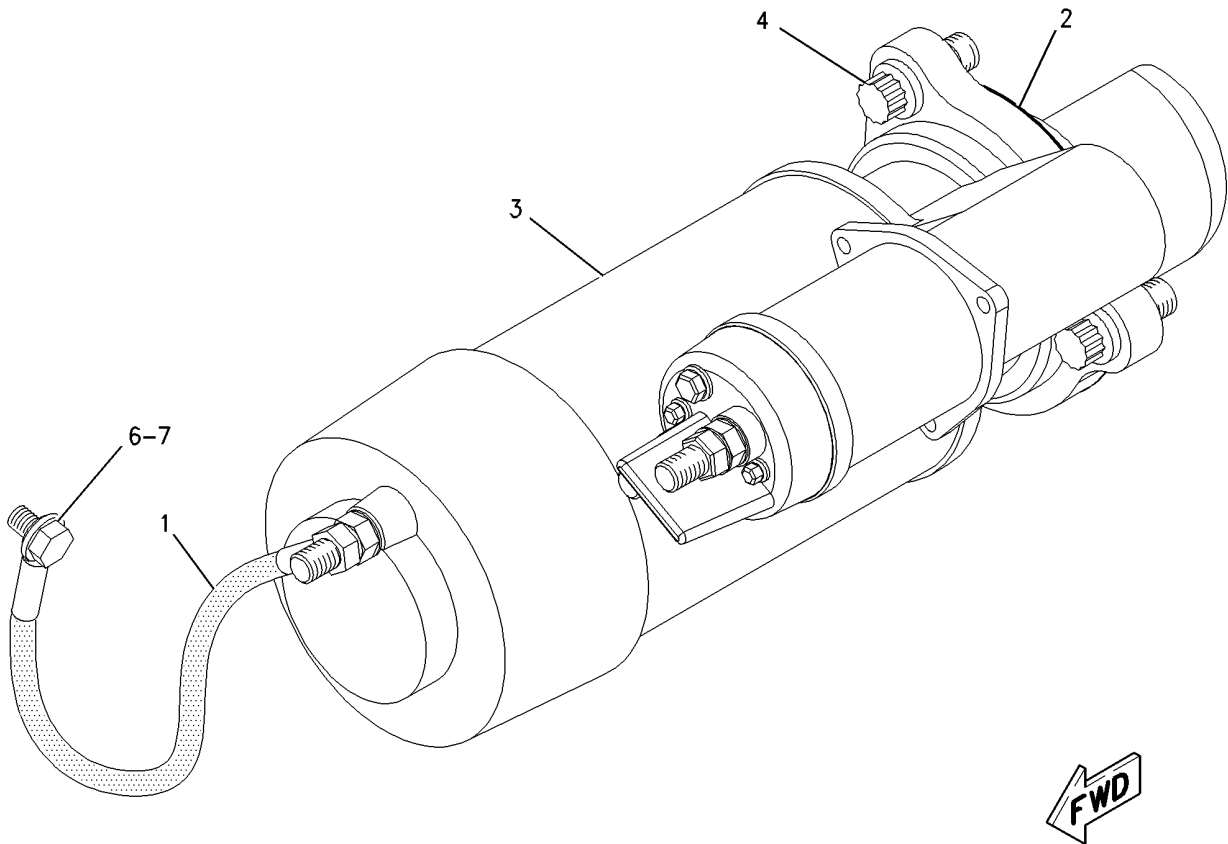
FOR USE WITH C9 TIER III INDUSTRIAL ENGINE
AN ATTACHMENT

SMCS-1453

i02346476

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	131-1449	1	CABLE AS						
	2	1	4H-7869	1	GASKET						
YR	3	1	207-1560	1	STARTING MOTOR GP-ELECTRIC						407
	4	1	7J-8902	3	BOLT-12 POINT HEAD (5/8-11X1.5-IN)						
	6	1	8T-4121	1	WASHER-HARD (11X21X2.5-MM THK)						
M	7	1	8T-4191	1	BOLT (M10X1.5X16-MM)						

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



GRAPHIC #1

<END>

g00820148

ELECTRICAL AND STARTING SYSTEM

201-9915 STARTING MOTOR GP-ELECTRIC

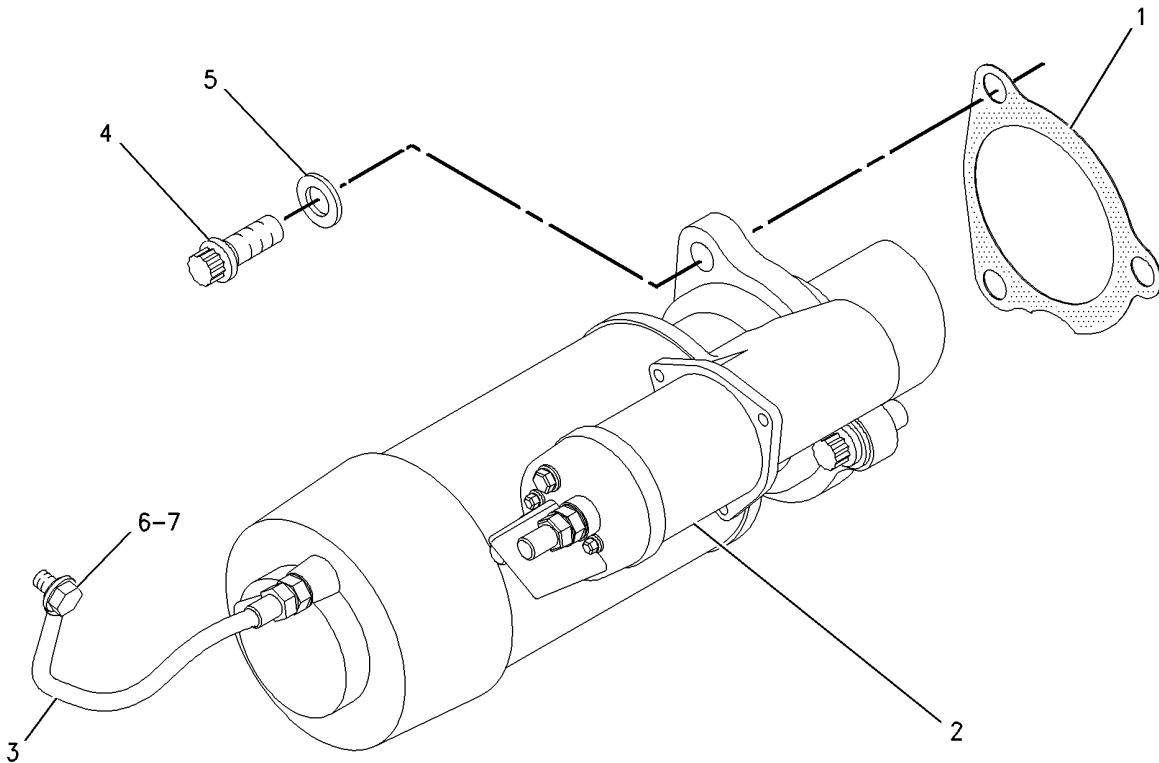
12-VOLT
AN ATTACHMENT

SMCS-1453

i02505581

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
	1	1	4H-7869	1	GASKET	
Y	2	1	6V-4215	1	STARTING MOTOR GP-ELECTRIC	384
	3	1	9F-4337	1	WIRE AS	
	4	1	7J-8902	3	BOLT-12 POINT HEAD (5/8-11X1.5-IN)	
	5	1	8D-5054	3	WASHER-HARD (17X30X3-MM THK)	
	6	1	8T-4121	1	WASHER-HARD (11X21X2.5-MM THK)	
M	7	1	8T-4191	1	BOLT (M10X1.5X16-MM)	

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00766400

ELECTRICAL AND STARTING SYSTEM

207-1521 STARTING MOTOR GP-ELECTRIC

12-VOLT

PART OF 149-5538 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

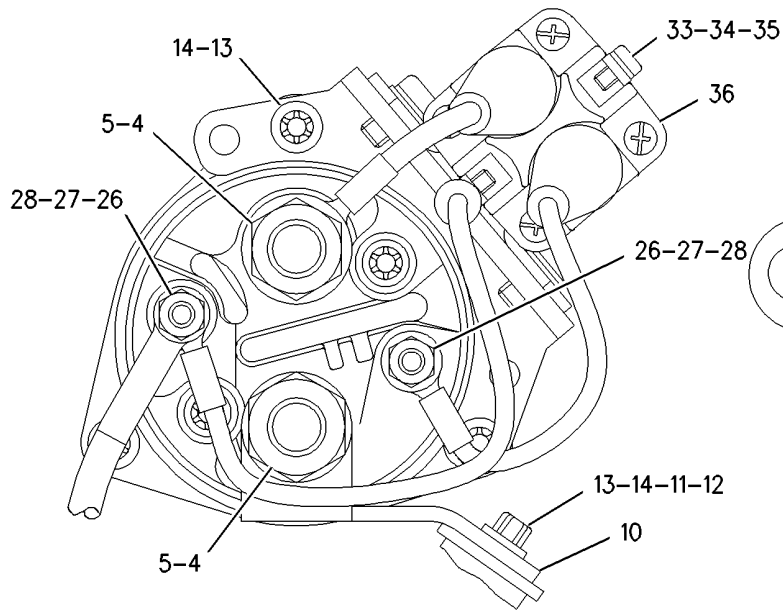
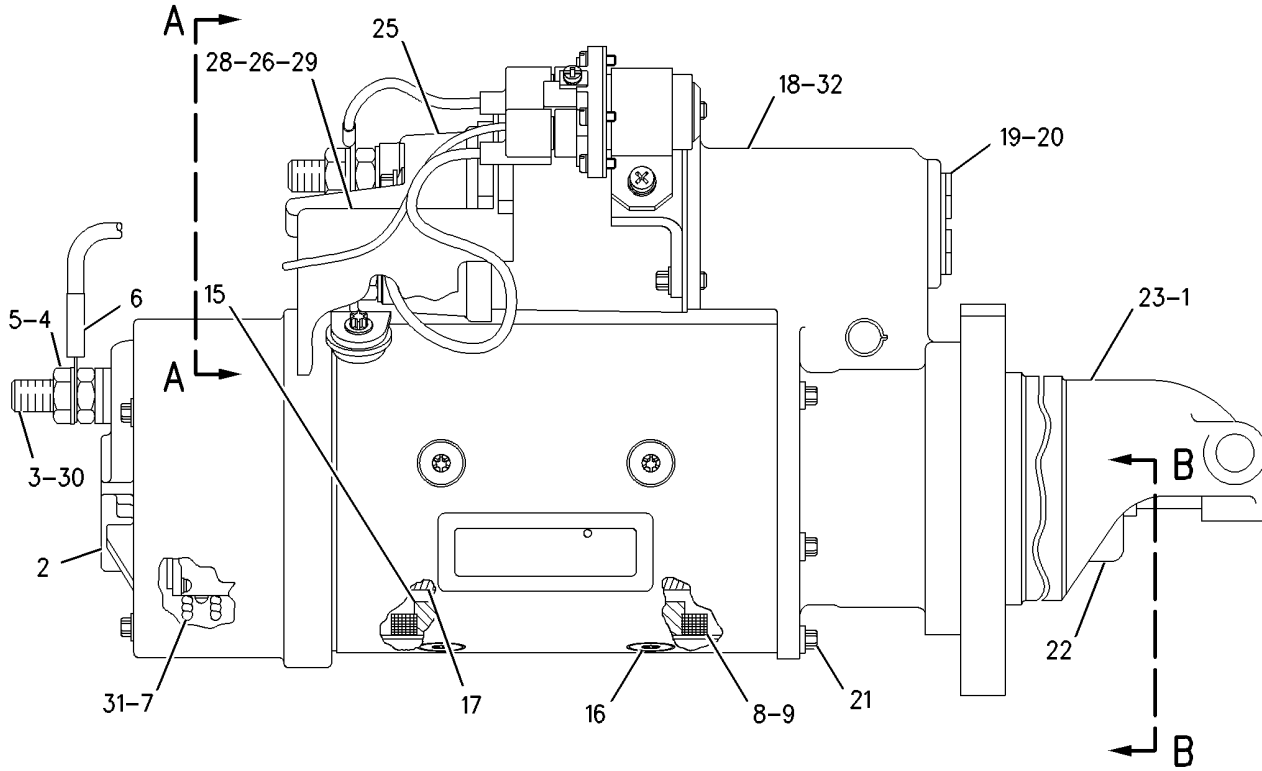
i02295068

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	1	1	3T-3434	6	PLUG	
	2	1	7T-3279	1	HOUSING AS	
	3	1	8T-8566	1	TERMINAL AS	
	4	1	6V-8188	4	NUT (1/2-13-THD)	
	5	1	7X-0562	4	WASHER-HARD (13.5X19X0.8-MM THK)	
	6	1	3T-3422	1	WIRE AS	
	7	1	8T-8570	1	HOLDER AS-BRUSH	
	8	1	8T-8568	1	COIL AS-FIELD	
	9	1	7T-3454	1	INSULATOR	
	10	1	7T-3271	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 (7.2X14.5X2-MM THK)	
	15	1	8H-1141	4	SHOE-POLE	
	16	1	3F-0379	8	SCREW-POLE SHOE (3/8-24-THD)	
	17	1	7T-3275	1	ARMATURE AS (12-VOLT)	
	18	1	3E-7775	1	HOUSING AS	
	19	1	4M-1831	1	PLUG-LEVER HOUSING	
	20	1	7L-2894	1	GASKET	
	21	1	036-9823	5	BOLT (1/4-28X1-IN)	
	22	1	6N-3826	1	DRIVE AS-MOTOR	
	23	1	7T-3974	1	HOUSING AS-DRIVE	
	24	1	7X-3373	6	BOLT (5/16-18X0.88-IN)	
	25	1	206-8789	1	KIT-SOLENOID (12-VOLT) (STARTING MOTOR) (INCLUDES SOLENOID AS, BOLT, AND NUTS)	
	26	1	6V-8378	3	NUT (10-32-THD)	
	27	1	8F-1434	2	LOCKWASHER	
	28	1	8T-0328	3	WASHER-HARD (5.5X10X1-MM THK)	
	29	1	9X-4824	1	COVER-STARTING MOTOR	
	30	1	8T-9884	1	KIT-INSULATOR (STARTING MOTOR) (INCLUDES INSULATORS AND BUSHING)	
	31	1	8T-9885	1	KIT-BRUSH (STARTING MOTOR) (INCLUDES BRUSHES, SPRINGS, SCREWS, SEAL, AND SCREW ASSEMBLIES)	
	32	1	7T-3268	1	KIT-LEVER (STARTING MOTOR) (INCLUDES LEVER ASSEMBLIES, SEALS, NUT, GASKET, AND RETAINER)	
M	33	1	095-7930	1	SCREW-MACHINE (M4X0.07X6-MM)	
	34	1	096-6166	1	WASHER-HARD (4.5X9X1-MM THK)	
	35	1	9B-7233	1	LOCKWASHER	
	36	1	146-3504	1	SWITCH AS-RELAY (12-VOLT) (STARTING MOTOR)	
					AVAILABLE REPAIR KIT(S):	
			7T-3267	1	KIT-BUSHING (STARTING MOTOR) (INCLUDES BUSHINGS, WICKS, CUPS, SEALS, GASKET, SCREW ASSEMBLIES, WASHERS, SPACER, AND NUT)	
M-METRIC PART						

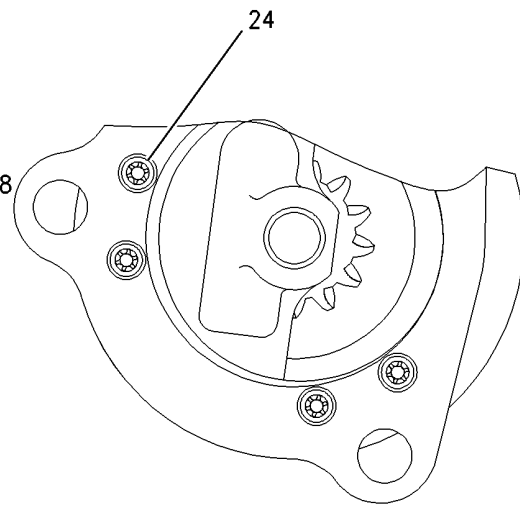
ELECTRICAL AND STARTING SYSTEM

207-1521 STARTING MOTOR GP-ELECTRIC (contd.)

i02295068



VIEW A-A



VIEW B-B

GRAPHIC #1

<END>

g00888492

ELECTRICAL AND STARTING SYSTEM

207-1548 STARTING MOTOR GP-ELECTRIC

24-VOLT

PART OF 111-2675 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

i02293330

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3T-3434	6	PLUG						
	2	1	7T-3279	1	HOUSING AS						
	3	1	8T-8566	1	TERMINAL AS						
	4	1	6V-8188	4	NUT (1/2-13-THD)						
	5	1	7X-0562	4	WASHER-HARD (13.5X19X0.8-MM THK)						
	6	1	3T-3422	1	WIRE AS						
	7	1	7T-3278	1	HOLDER AS-BRUSH						
	8	1	7T-3277	1	COIL AS-FIELD						
	9	1	7T-3454	1	INSULATOR						
	10	1	7T-3271	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 (7.2X14.5X2-MM THK)						
	15	1	8H-1141	4	SHOE-POLE						
	16	1	3F-0379	8	SCREW-POLE SHOE (3/8-24-THD)						
	17	1	7T-3276	1	ARMATURE AS (24-VOLT)						
	18	1	3E-7775	1	HOUSING AS						
	19	1	4M-1831	1	PLUG-LEVER HOUSING						
	20	1	7L-2894	1	GASKET						
	21	1	036-9823	5	BOLT (1/4-28X1-IN)						
	22	1	6N-3826	1	DRIVE AS-MOTOR						
	23	1	7T-3974	1	HOUSING AS-DRIVE						
	24	1	7X-3373	6	BOLT (5/16-18X0.88-IN)						
	25	1	193-8570	1	SOLENOID AS (24-VOLT) (STARTING MOTOR)						
	26	1	6V-8378	3	NUT (10-32-THD)						
	27	1	8F-1434	2	LOCKWASHER						
	28	1	8T-0328	3	WASHER-HARD (5.5X10X1-MM THK)						
	29	1	9X-4824	1	COVER-STARTING MOTOR						
	30	1	8T-9884	1	KIT-INSULATOR (STARTING MOTOR) (INCLUDES INSULATORS AND BUSHING)						
	31	1	8C-3655	1	KIT-BRUSH (STARTING MOTOR) (INCLUDES BRUSHES, SPRINGS, SCREWS, SEAL, AND SCREW ASSEMBLIES)						
	32	1	7T-3268	1	KIT-LEVER (STARTING MOTOR) (INCLUDES LEVER ASSEMBLIES, SEALS, NUT, GASKET, AND RETAINER)						
					AVAILABLE REPAIR KIT(S):						
			7T-3267	1	KIT-BUSHING (STARTING MOTOR) (INCLUDES BUSHINGS, WICKS, CUPS, SEALS, GASKET, SCREW ASSEMBLIES, WASHERS, SPACER, AND NUT)						

ELECTRICAL AND STARTING SYSTEM

207-1549 STARTING MOTOR GP-ELECTRIC

24-VOLT

PART OF 131-3401 STARTING MOTOR GP-ELECTRIC
AN ATTACHMENT

SMCS-1453

i02550842

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3T-3434	6	PLUG						
	2	1	7T-3279	1	HOUSING AS						
	3	1	8T-8566	1	TERMINAL AS						
	4	1	6V-8188	4	NUT (1/2-13-THD)						
	5	1	7X-0562	4	WASHER-HARD (13.5X19X0.8-MM THK)						
	6	1	3T-3422	1	WIRE AS						
	7	1	7T-3278	1	HOLDER AS-BRUSH (STARTING MOTOR)						
	8	1	7T-3277	1	COIL AS-FIELD						
	9	1	7T-3454	1	INSULATOR						
	10	1	7T-3271	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 (7.2X14.5X2-MM THK)						
	15	1	8H-1141	4	SHOE-POLE						
	16	1	3F-0379	8	SCREW-POLE SHOE (3/8-24-THD)						
	17	1	7T-3276	1	ARMATURE AS (24-VOLT)						
	18	1	3E-7775	1	HOUSING AS						
	19	1	4M-1831	1	PLUG-LEVER HOUSING						
	20	1	7L-2894	1	GASKET						
	21	1	036-9823	5	BOLT (1/4-28X1-IN)						
	22	1	6N-3826	1	DRIVE AS-MOTOR						
	23	1	7T-3974	1	HOUSING AS-DRIVE						
	24	1	7X-3373	6	BOLT (5/16-18X0.88-IN)						
	25	1	193-8570	1	SOLENOID AS (24-VOLT) (STARTING MOTOR)						
	26	1	6V-8378	2	NUT (10-32-THD)						
	27	1	8F-1434	2	LOCKWASHER						
	28	1	8T-0328	2	WASHER-HARD (5.5X10X1-MM THK)						
Z	29	1		1	HOUSING						
JZ	30	1		4	SPRING						
JZ	31	1		4	BRUSH						
JZ	32	1		4	SCREW						
JPZ	33	1		6	SCREW AS						
JPZ	34	1		1	SEAL-O-RING						
LZ	35	1		3	INSULATOR						
NZ	36	1		1	LEVER AS						
NPZ	37	1		1	NUT						
NPZ	38	1		1	SEAL-O-RING						
PZ	39	1		1	SEAL-O-RING						
NZ	40	1		1	RETAINER						
PZ	41	1		1	GASKET						
PZ	42	1		1	BUSHING						
PZ	43	1		2	PLUG-CUP						
PZ	44	1		1	PLUG-CUP						
PZ	45	1		1	PLUG						
PZ	46	1		1	PLUG						
PZ	47	1		1	PLUG						
PZ	48	1		1	BUSHING						
PZ	49	1		1	WASHER						
NZ	50	1		1	SEAL-O-RING						
NZ	51	1		1	SEAL-O-RING						
PZ	52	1		1	RETAINER						
PZ	53	1		1	SPACER						
PZ	54	1		1	BUSHING						
LZ	55	1		1	BUSHING						

ELECTRICAL AND STARTING SYSTEM

207-1549 STARTING MOTOR GP-ELECTRIC (contd.)

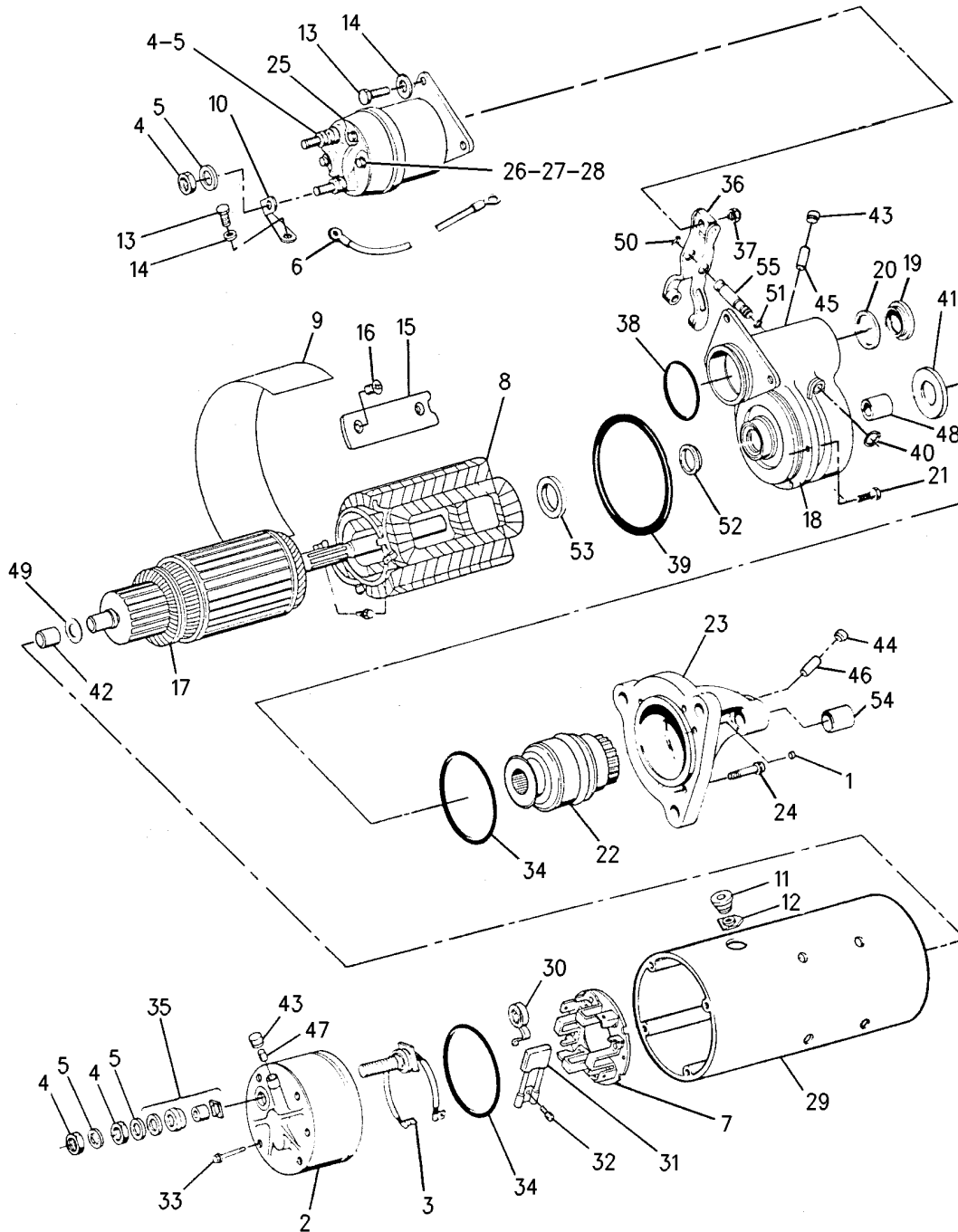
i02550842

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
AVAILABLE REPAIR KIT(S):											
J			8C-3655	1	KIT-BRUSH (STARTING MOTOR)						
(INCLUDES SEAL, BRUSHES, SPRINGS, AND SCREWS)											
P			7T-3267	1	KIT-BUSHING (STARTING MOTOR)						
(INCLUDES BUSHINGS, SEALS, GASKET, CUP, WICKS, AND SPACER)											
N			7T-3268	1	KIT-LEVER (STARTING MOTOR)						
(INCLUDES LEVER ASSEMBLIES, SEALS, GASKET, NUT, AND RETAINER)											
L			8T-9884	1	KIT-INSULATOR (STARTING MOTOR)						
(INCLUDES INSULATORS AND BUSHING)											
J-KIT MARKED J INCLUDES PARTS MARKED J L-KIT MARKED L INCLUDES PARTS MARKED L N-KITS MARKED N INCLUDES PARTS MARKED N P-KITS MARKED P INCLUDES PARTS MARKED P Z-NOT SERVICED SEPARATELY											

ELECTRICAL AND STARTING SYSTEM

207-1549 STARTING MOTOR GP-ELECTRIC (contd.)

i02550842



GRAPHIC #1

<END>

g00836417

ELECTRICAL AND STARTING SYSTEM

207-1556 STARTING MOTOR GP-ELECTRIC

24-VOLT

PART OF 102-5836 STARTING MOTOR GP-ELECTRIC
FIELD REPLACEMENT ORDER 237-1962-PAGE 410. FIELD REPLACEMENT FOR
207-1557-PAGE 405, 6V-5582-PAGE 389
AN ATTACHMENT

SMCS-1453

i01593340

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	6V-5582	1	STARTING MOTOR GP-ELECTRIC						389
			-OR-						
Y	207-1557	1	STARTING MOTOR GP-ELECTRIC						405
Y-SEPARATE ILLUSTRATION									

<END>

ELECTRICAL AND STARTING SYSTEM

207-1557 STARTING MOTOR GP-ELECTRIC

24-VOLT

PART OF 207-1556 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 207-1556-PAGE 404

AN ATTACHMENT

SMCS-1453

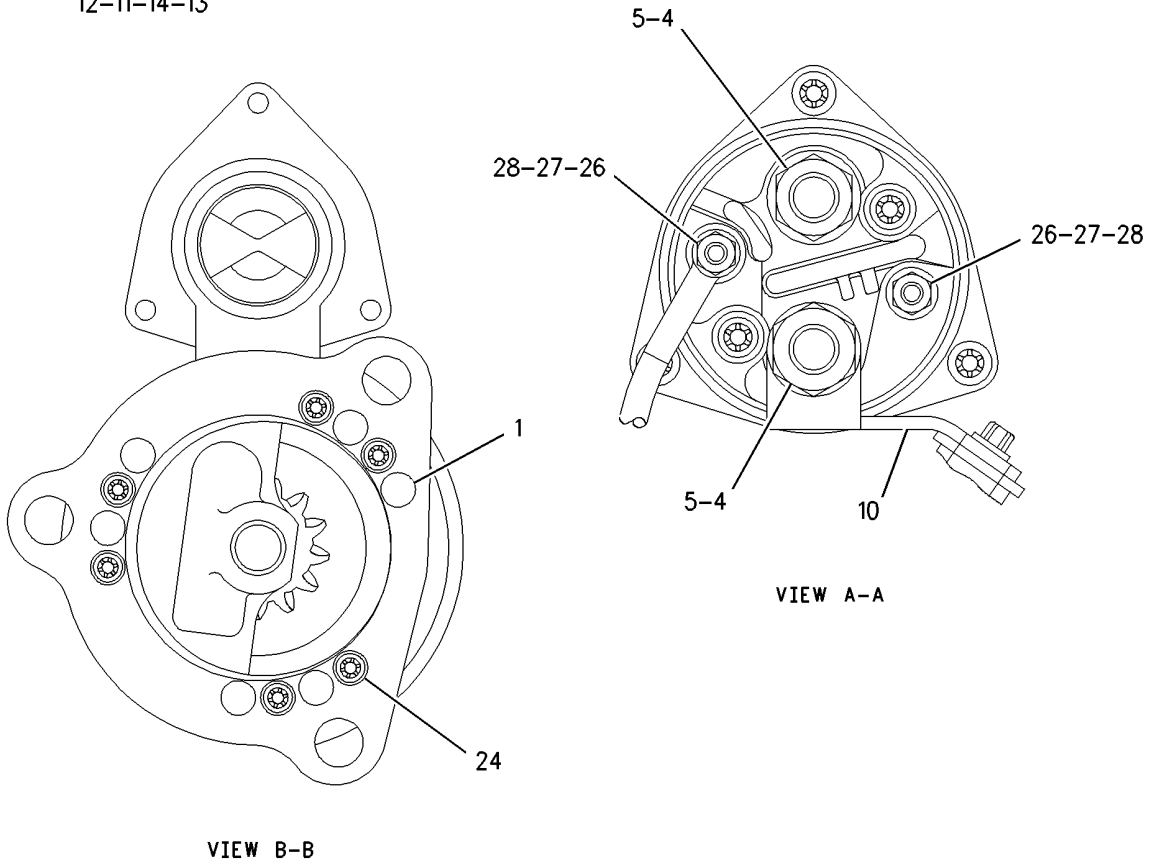
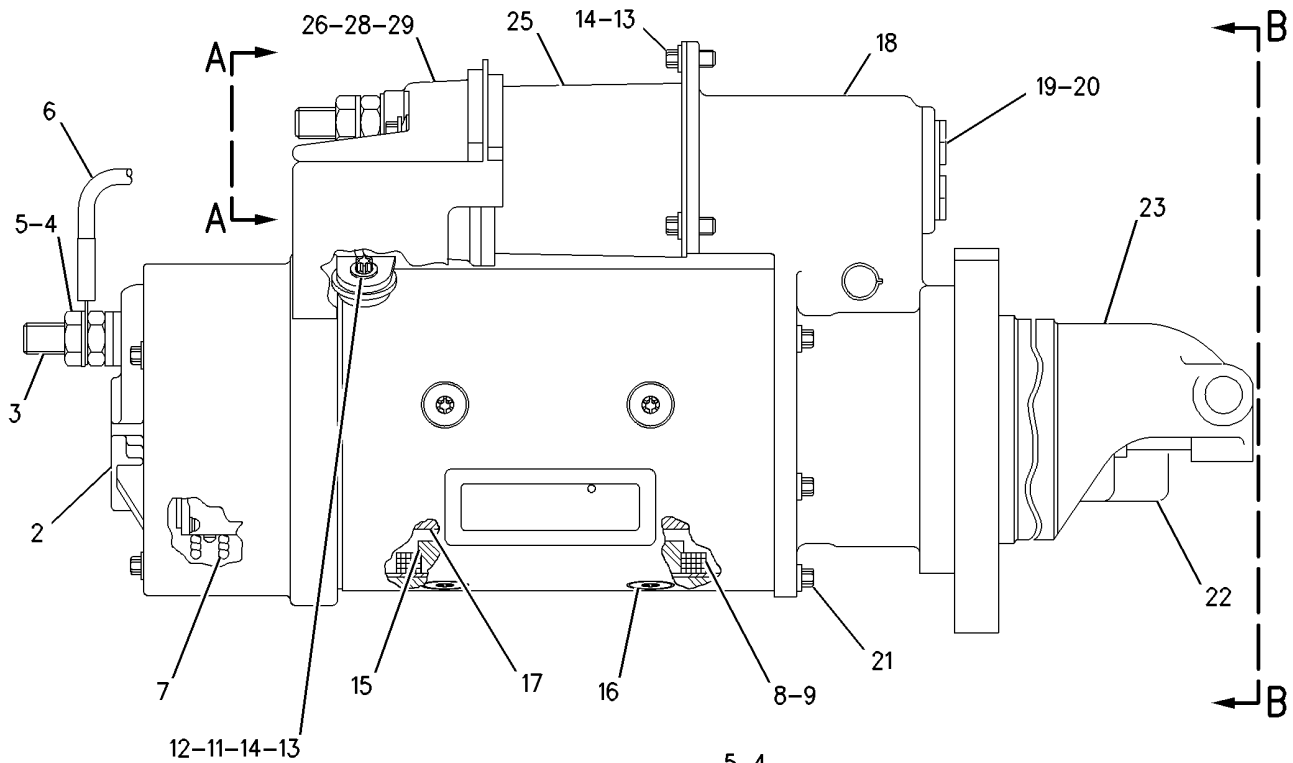
i02425809

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3T-3434	6	PLUG						
	2	1	7T-3279	1	HOUSING AS						
	3	1	8T-8566	1	TERMINAL AS						
	4	1	6V-8188	4	NUT (1/2-13-THD)						
	5	1	7X-0562	4	WASHER-HARD (13.5X19X0.8-MM THK)						
	6	1	3T-3422	1	WIRE AS						
	7	1	7T-3278	1	HOLDER AS-BRUSH						
	8	1	7T-3277	1	COIL AS-FIELD						
	9	1	7T-3454	1	INSULATOR						
	10	1	7T-3271	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 (7.2X14.5X2-MM THK)						
	15	1	8H-1141	4	SHOE-POLE						
	16	1	3F-0379	8	SCREW-POLE SHOE (3/8-24-THD)						
	17	1	7T-3276	1	ARMATURE AS (24-VOLT)						
	18	1	3E-7775	1	HOUSING AS						
	19	1	4M-1831	1	PLUG-LEVER HOUSING						
	20	1	7L-2894	1	GASKET						
	21	1	036-9823	5	BOLT (1/4-28X1-IN)						
	22	1	6N-3826	1	DRIVE AS-MOTOR						
	23	1	7T-3974	1	HOUSING AS-DRIVE						
	24	1	7X-3373	6	BOLT (5/16-18X0.88-IN)						
	25	1	193-8570	1	SOLENOID AS (24-VOLT) (STARTING MOTOR)						
	26	1	6V-8378	3	NUT (10-32-THD)						
	27	1	8F-1434	2	LOCKWASHER						
	28	1	8T-0328	3	WASHER-HARD (5.5X10X1-MM THK)						
	29	1	9X-4824	1	COVER-STARTING MOTOR						
					AVAILABLE REPAIR KIT(S):						
			7T-3268		KIT-LEVER (STARTING MOTOR) (KIT INCLUDES LEVER ASSEMBLIES, SEALS, NUT, GASKET & RETAINER)						
			7T-3267		KIT-BUSHING (STARTING MOTOR) (KIT INCLUDES BUSHINGS, WICKS, CUPS, SEALS, GASKET, SCREW AS., WASHERS, SPACER & NUT)						
			8C-3655		KIT-BRUSH (STARTING MOTOR) (KIT INCLUDES BRUSHES, SPRINGS, SCREWS, SCREW AS. & SEAL)						
			8T-9884		KIT-INSULATOR (STARTING MOTOR) (KIT INCLUDES INSULATORS AND BUSHING)						

ELECTRICAL AND STARTING SYSTEM

207-1557 STARTING MOTOR GP-ELECTRIC (contd.)

i02425809



GRAPHIC #1

<END>

g00826583

ELECTRICAL AND STARTING SYSTEM

207-1560 STARTING MOTOR GP-ELECTRIC*R

24-VOLT

PART OF 171-5288 STARTING MOTOR GP-ELECTRIC
FIELD REPLACEMENT FOR 207-1561-PAGE 408: FOR 6V-5538-PAGE 387
AN ATTACHMENT

SMCS-1453

i01689293

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	6V-5538	1	STARTING MOTOR GP-ELECTRIC						387
			-OR-						
Y	207-1561	1	STARTING MOTOR GP-ELECTRIC						408
Y-SEPARATE ILLUSTRATION									

<END>

ELECTRICAL AND STARTING SYSTEM

207-1561 STARTING MOTOR GP-ELECTRIC

24-VOLT

PART OF 207-1560 STARTING MOTOR GP-ELECTRIC

FIELD REPLACEMENT ORDER 207-1560-PAGE 407

AN ATTACHMENT

SMCS-1453

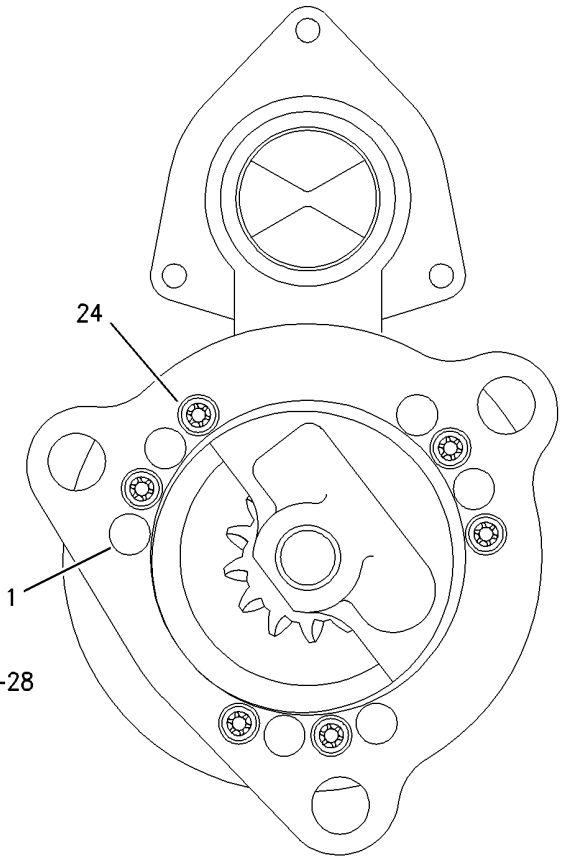
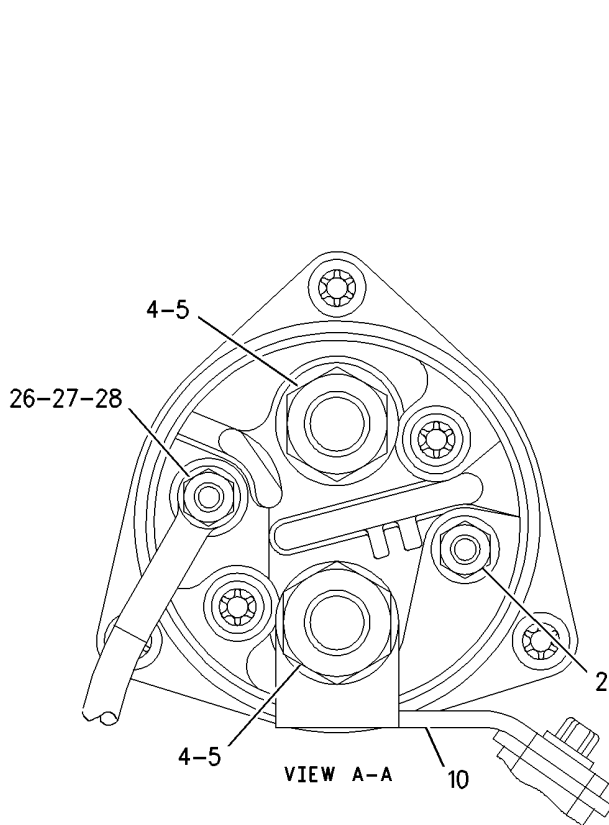
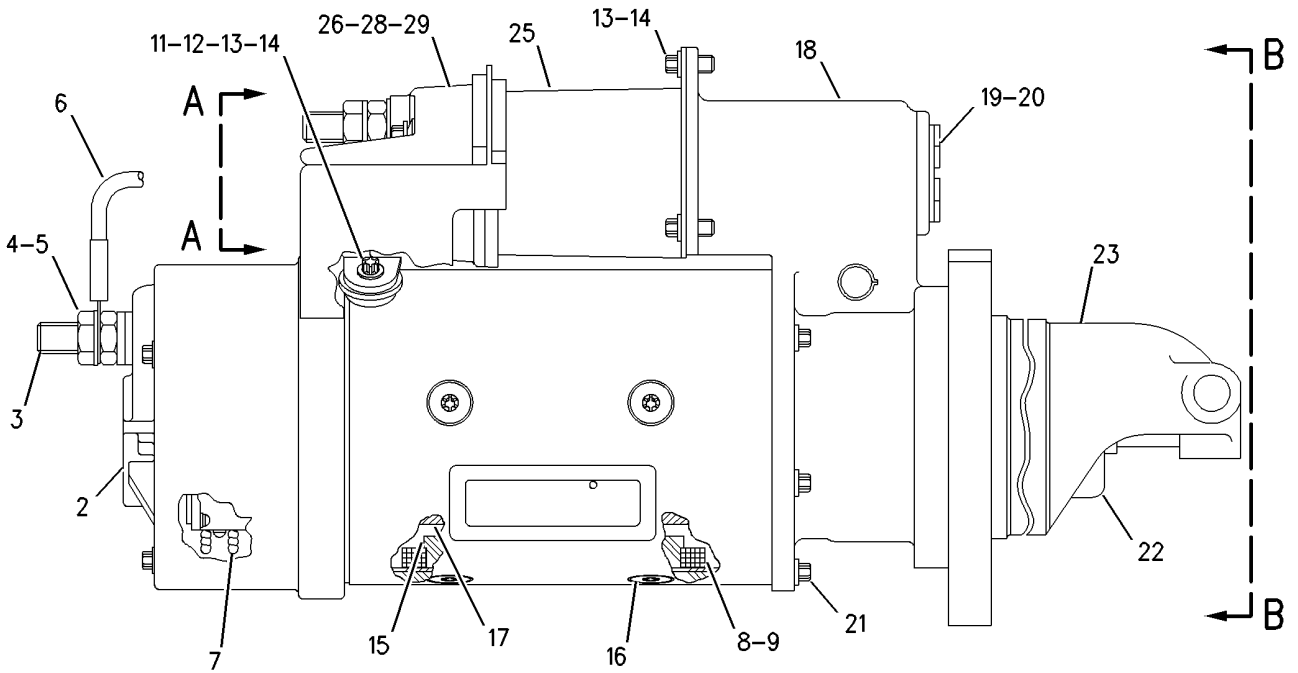
i02603828

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3T-3434	6	PLUG						
	2	1	7T-3279	1	HOUSING AS						
	3	1	8T-8566	1	TERMINAL AS						
	4	1	6V-8188	4	NUT (1/2-13-THD)						
	5	1	7X-0562	4	WASHER-HARD (13.5X19X0.8-MM THK)						
	6	1	3T-3422	1	WIRE AS						
	7	1	7T-3278	1	HOLDER AS-BRUSH						
	8	1	7T-3277	1	COIL AS-FIELD						
	9	1	7T-3454	1	INSULATOR						
	10	1	7T-3271	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 (7.2X14.5X2-MM THK)						
	15	1	8H-1141	4	SHOE-POLE						
	16	1	3F-0379	8	SCREW-POLE SHOE (3/8-24-THD)						
	17	1	7T-3276	1	ARMATURE AS (24-VOLT)						
	18	1	3E-7775	1	HOUSING AS						
	19	1	4M-1831	1	PLUG-LEVER HOUSING						
	20	1	7L-2894	1	GASKET						
	21	1	036-9823	5	BOLT (1/4-28X1-IN)						
	22	1	6N-3827	1	DRIVE AS-MOTOR						
	23	1	7T-3974	1	HOUSING AS-DRIVE						
	24	1	7X-3373	6	BOLT (5/16-18X0.88-IN)						
	25	1	193-8570	1	SOLENOID AS (24-VOLT) (STARTING MOTOR)						
	26	1	6V-8378	2	NUT (10-32-THD)						
	27	1	8F-1434	2	LOCKWASHER						
	28	1	8T-0328	2	WASHER-HARD (5.5X10X1-MM THK)						
	29	1	9X-4824	2	COVER-STARTING MOTOR						
					AVAILABLE REPAIR KIT(S):						
			7T-3267	1	KIT-BUSHING (STARTING MOTOR) (INCLUDES BUSHINGS, WICKS, CUPS, SEALS, SCREW AS'S, WASHERS, SPACER & NUT)						
			7T-3268	1	KIT-LEVER (STARTING MOTOR) (INCLUDES LEVER AS, SEALS, NUT, GASKET & RETAINER)						
			8C-3655	1	KIT-BRUSH (STARTING MOTOR) (INCLUDES BRUSHES, SPRINGS, SCREWS, SEAL & SCREW AS)						
			8T-9884	1	KIT-INSULATOR (STARTING MOTOR) (INCLUDES INSULATORS & BUSHING)						

ELECTRICAL AND STARTING SYSTEM

207-1561 STARTING MOTOR GP-ELECTRIC (contd.)

i02603828



GRAPHIC #1

<END>

g00846214

ELECTRICAL AND STARTING SYSTEM

237-1962 STARTING MOTOR GP-ELECTRIC*R

24-VOLT

FIELD REPLACEMENT FOR 207-1556-PAGE 404

SMCS-1453

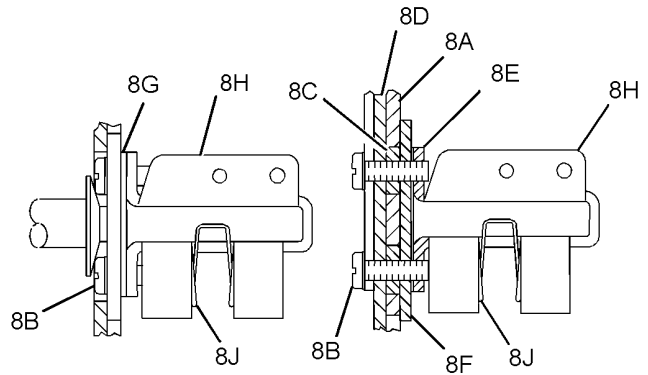
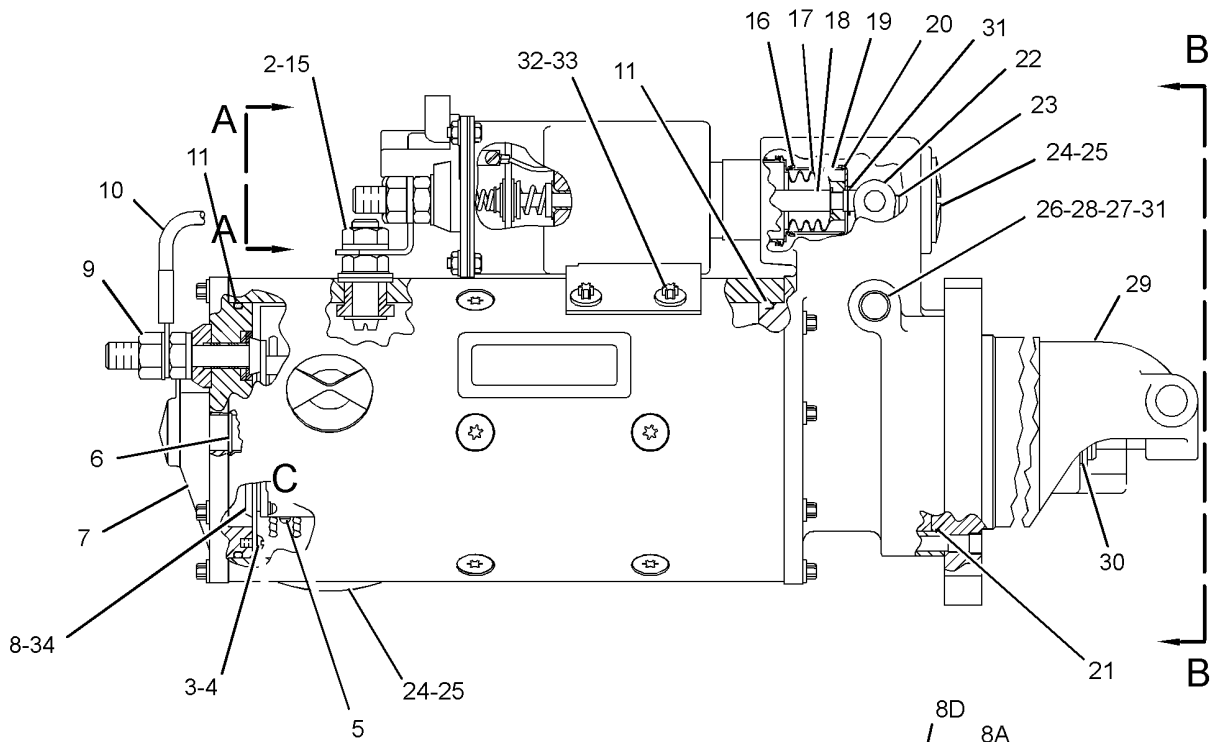
i02321704

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7M-0326	1	CONNECTOR						
	2	1	9H-3757	2	WASHER (0.516X1X0.094-IN THK)						
	3	1	1S-7446	3	SCREW-MACHINE (8-32X0.437-IN)						
	4	1	8C-9660	3	WASHER (4.6X7.9X0.8-MM THK)						
	5	1	9S-2544	9	SCREW-HEX HEAD (8-32X11.13-MM)						
	6	1	7M-0327	1	WASHER-THRUST (17.4X25.4X1.6-MM THK)						
	7	1	3T-3418	1	FRAME AS-END						
		1	3T-3423	1	CUP						
		1	3T-3424	1	PLUG-FELT						
		1	9G-4101	1	BUSHING-END						
	8	1	3T-9525	1	PLATE AS-BRUSH						
	8A	1	6T-0371	1	INSULATOR						
	8B	1	5P-6298	12	SCREW-MACHINE (10-32X0.5-IN)						
	8C	1	7F-3525	6	WASHER-BUSHING (0.207X0.39X0.09-IN THK)						
		1	9F-5599	12	LOCKWASHER						
	8D	1	6T-0372	1	PLATE						
	8E	1	3T-4709	3	PLATE						
	8F	1	2L-6679	3	PLATE-INSULATOR						
	8G	1	3T-4710	3	PLATE						
	8H	1	6T-0363	6	HOLDER AS-BRUSH (STARTING MOTOR) (EACH INCLUDES)						
	8J	1	3T-9494	1	SPRING						
	9	1	7F-3491	2	WASHER (0.516X1X0.094-IN THK)						
	10	1	3T-3422	1	WIRE AS						
	11	1	2J-8163	2	SEAL-O-RING						
	12	1	7X-3373	1	BOLT (5/16-18X0.88-IN)						
	13	1	3T-3434	6	PLUG						
	14	1	5J-5314	5	BOLT (5/16-18X1.5-IN)						
	15	1	3L-3380	1	BUSHING-TERMINAL						
	16	1	036-9821	1	WASHER						
	17	1	4M-1828	1	RETAINER-SPRING						
	18	1	4M-1829	1	BOOT-RUBBER						
	19	1	9M-7609	1	SPRING (SHIFT LEVER)						
	20	1	4M-1827	1	RETAINER-SPRING						
	21	1	8C-3089	1	SEAL-O-RING						
	22	1	4M-1853	1	LEVER AS-SHIFT						
	23	1	5M-3034	1	LOCKNUT (5/16-24-THD)						
	24	1	7L-2894	4	GASKET						
	25	1	4M-1831	4	PLUG-LEVER HOUSING						
	26	1	4M-1854	1	SHAFT-LEVER						
	27	1	1H-1023	1	SEAL-O-RING						
	28	1	2D-6392	1	SEAL-O-RING						
	29	1	7T-3974	1	HOUSING AS-DRIVE						
	30	1	6N-3826	1	DRIVE AS-MOTOR						
	31	1	2H-3429	2	RING-RETAINING						
	32	1	6V-1322	4	BOLT (1/4-20X0.375-IN)						
	33	1	8T-4205	4	WASHER-HARD (7.2X14.5X2-MM THK)						
	34	1	6N-3279	1	INSULATOR						

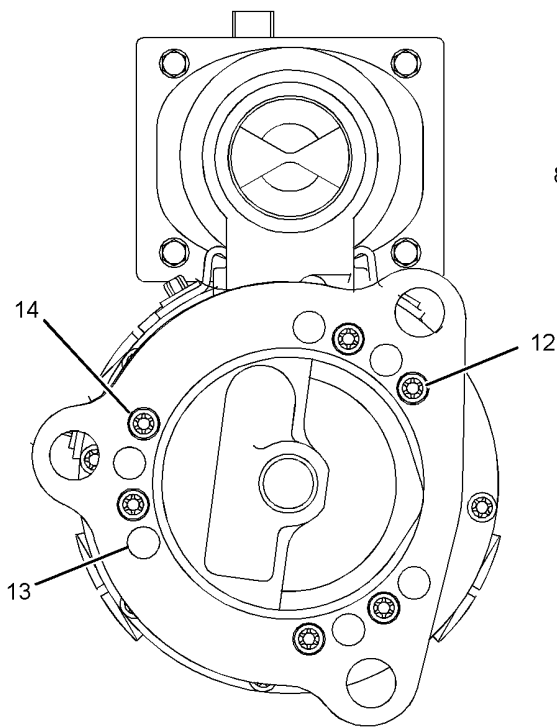
ELECTRICAL AND STARTING SYSTEM

237-1962 STARTING MOTOR GP-ELECTRIC (contd.)

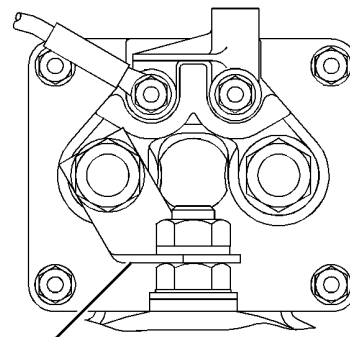
i02321704



VIEW OF AREA C



VIEW B-B



VIEW A-A

GRAPHIC #1

<END>

g01160609

ELECTRICAL AND STARTING SYSTEM

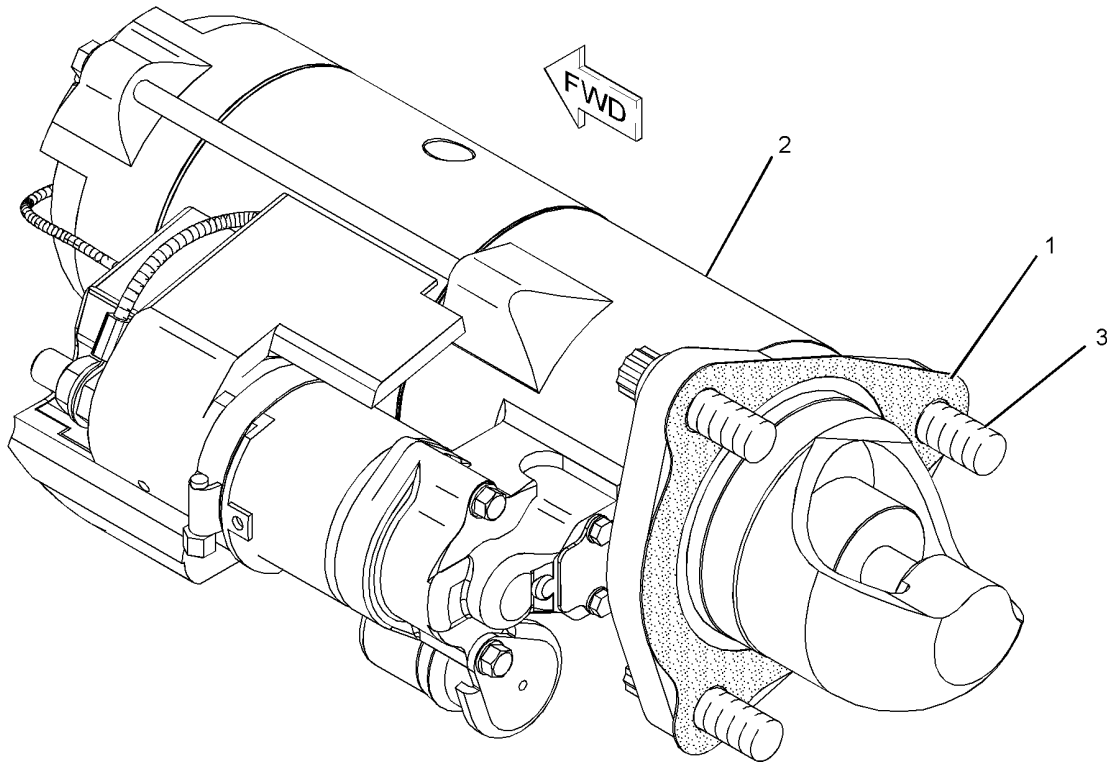
265-6955 STARTING MOTOR GP-ELECTRIC

12-VOLT
AN ATTACHMENT

SMCS-1453

i02241853

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	4H-7869	1	GASKET						
	2	1	249-3681	1	STARTING MOTOR GP-ELECTRIC						
	3	1	8S-2332	3	BOLT-12 POINT HEAD (5/8-11X1.75-IN)						



GRAPHIC #1

<END>

g01131135

ELECTRICAL AND STARTING SYSTEM

125-1302 SWITCH GP-MAGNETIC-STARTING MOTOR

24-VOLT

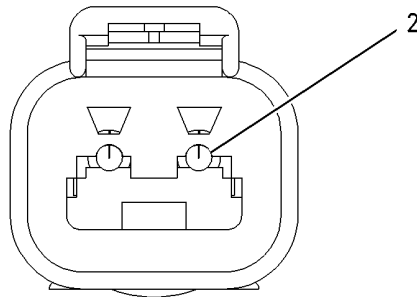
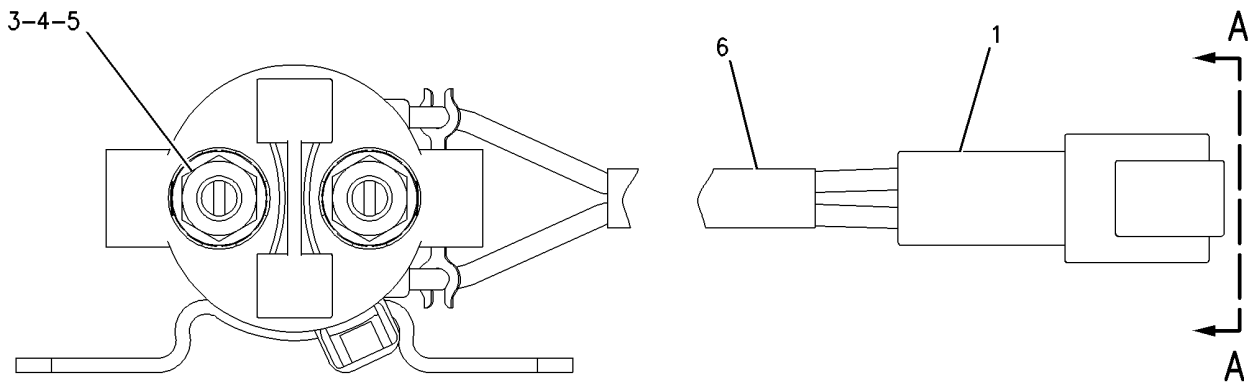
PART OF 195-1345 CONTROL GP-AUTO START/STOP
AN ATTACHMENT

SMCS-7499

i01896615

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)						
					(INCLUDES RECEPTACLE AS & WEDGE)						
	2	1	186-3735	2	PIN-CONNECTOR (16-GA TO 18-GA)						
	3	1	1H-3338	2	LOCKWASHER						
	4	1	012-0380	2	LOCKWASHER						
M	5	1	5C-2890	2	NUT (M6X1-THD)						
E	6	1	9X-1813		SLEEVE (16CM)						

E-ORDER BY THE CENTIMETER
M-METRIC PART



VIEW A-A

GRAPHIC #1

<END>

g00988004

ELECTRICAL AND STARTING SYSTEM

212-7766 SWITCH GP-MAGNETIC-AIR INLET HEATER

12-VOLT

PART OF 209-2107 STARTING AID GP, 242-7478 WIRING GP-HEATER
AN ATTACHMENT

SMCS-7499

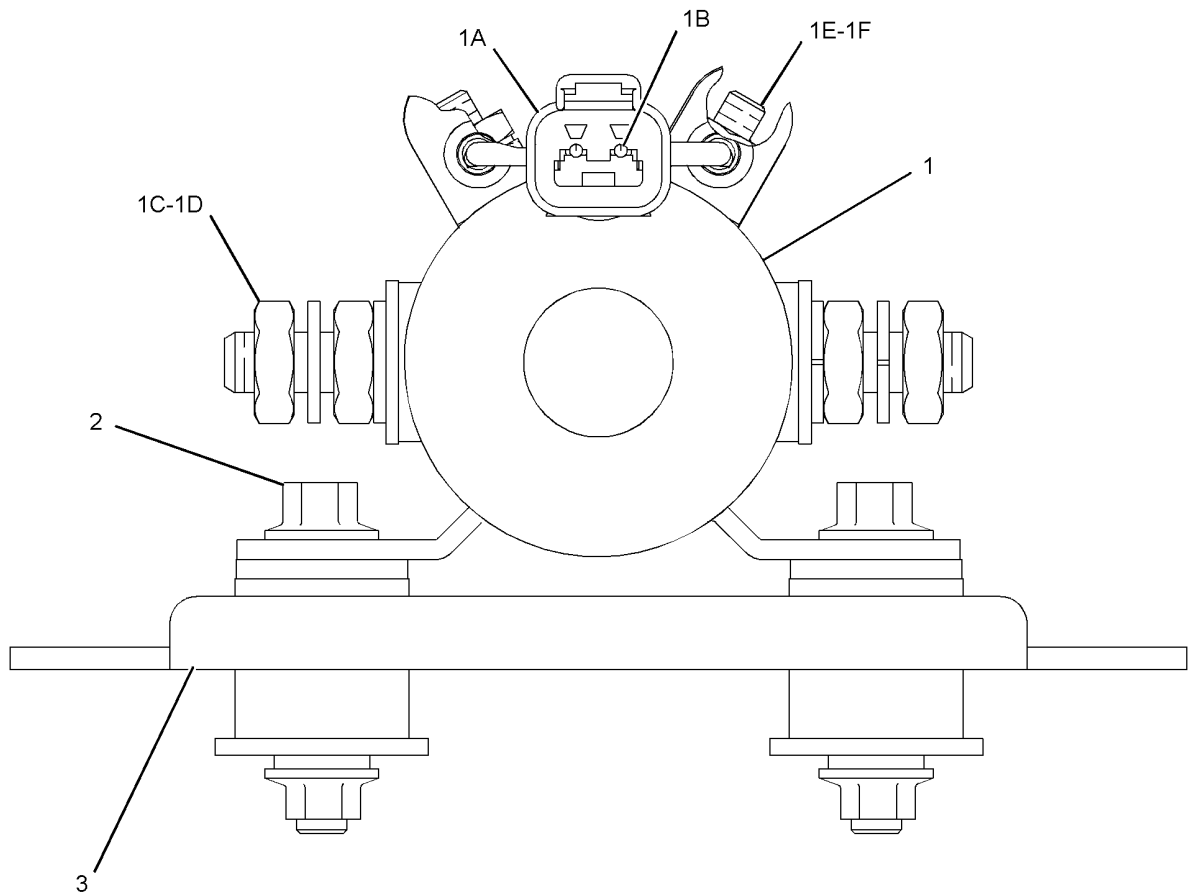
i02512382

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	209-5581	1	SWITCH GP-MAGNETIC (12-VOLT) (AIR INLET HEATER)	
	1A	1	102-8802	1	KIT-RECEPTACLE (2-PIN) (INCLUDES RECEPTACLE AS AND WEDGE)	
	1B	1	186-3735	2	PIN-CONNECTOR (16-GA TO 18-GA)	
	1C	1	3F-9556	2	LOCKWASHER	
	1D	1	6V-8186	2	NUT-FULL (5/16-24-THD)	
	1E	1	6V-8378	2	NUT (10-32-THD)	
	1F	1	8F-1434	2	LOCKWASHER	
	2	1	208-9277	2	BOLT-FLANGE HEAD (M8X1X25-MM)	
	3	1	283-1226	1	BRACKET AS	

ELECTRICAL AND STARTING SYSTEM

212-7766 SWITCH GP-MAGNETIC (contd.)

i02512382



GRAPHIC #1

<END>

g01257725

ELECTRICAL AND STARTING SYSTEM

223-4453 SWITCH GP-MAGNETIC-AIR INLET HEATER

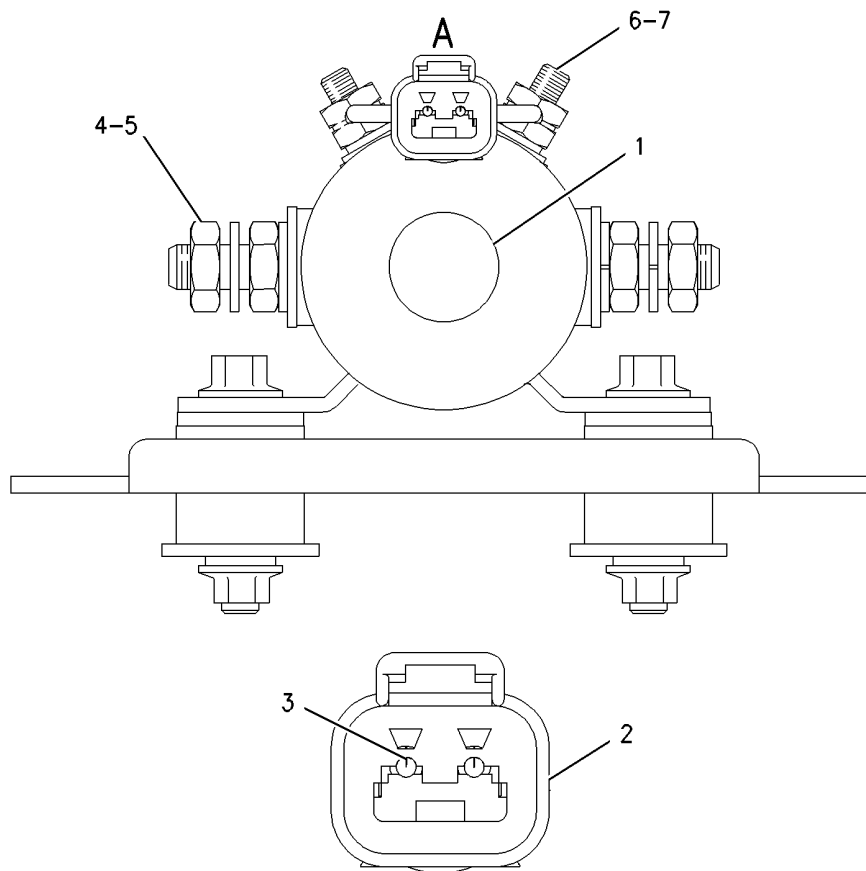
24-VOLT

PART OF 209-2108 STARTING AID GP
AN ATTACHMENT

SMCS-7499

i02522358

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	209-5582	1	SWITCH GP-MAGNETIC (24-VOLT) (AIR INLET HEATER RELAY)						
	2	1	102-8802	1	KIT-RECEPTACLE (2-PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
	3	1	186-3735	2	PIN-CONNECTOR (16-GA TO 18-GA)						
	4	1	3F-9556	2	LOCKWASHER						
	5	1	6V-8186	2	NUT-FULL (5/16-24-THD)						
	6	1	6V-8378	2	NUT (10-32-THD)						
	7	1	8F-1434	2	LOCKWASHER						



VIEW OF AREA A

GRAPHIC #1

<END>

g00921149

ELECTRICAL AND STARTING SYSTEM

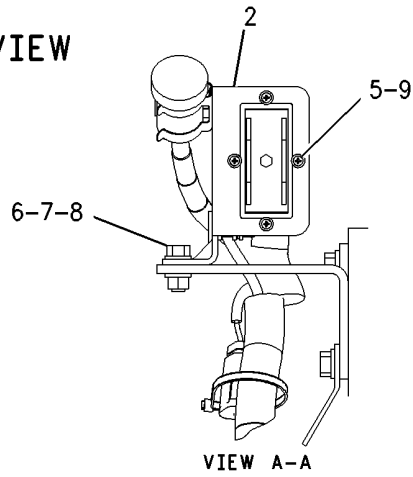
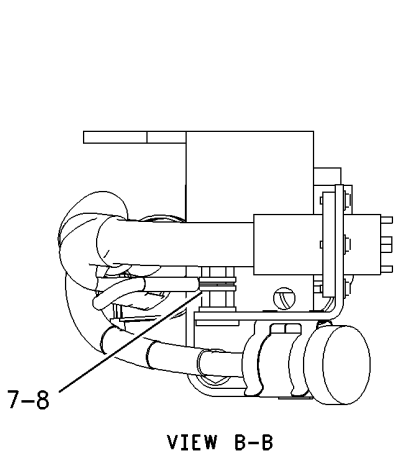
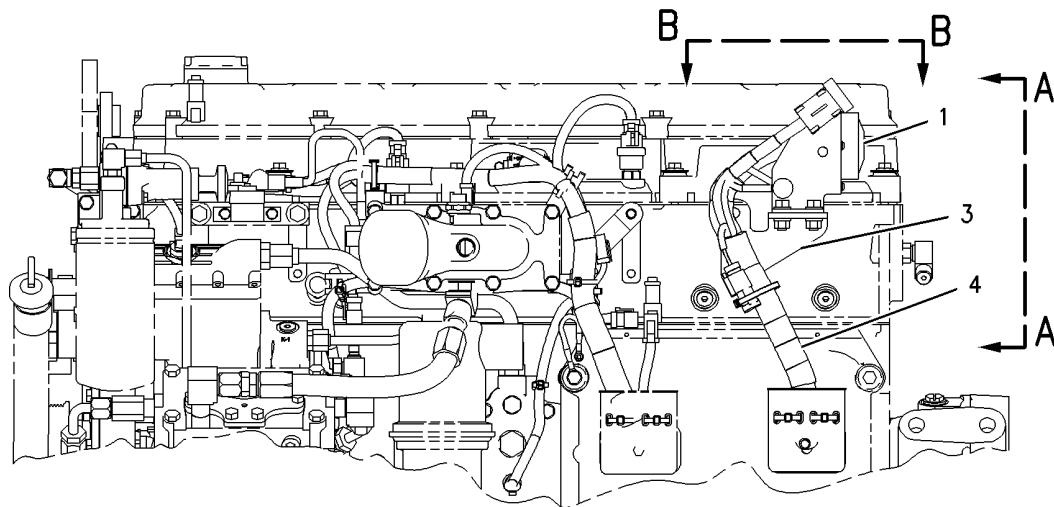
194-1091 WIRING GP-ELECTRONIC CONTROL

AN ATTACHMENT

SMCS-1408, 1900

i02293277

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	221-5422	1	BRACKET						
	4	1	221-5424	1	HARNESS AS (ELECTRONIC CONTROL MODULE)						
		1	3S-2093	3	STRAP-CABLE						
		1	9X-1343	1	RECEPTACLE AS-CONNECTOR (40-PIN)						
		1	134-2540	1	RECEPTACLE AS-CONNECTOR (3-PIN)						
		1	160-7689	1	PLUG AS-CONNECTOR (70-PIN)						
		1	159-9322	1	SEAL-O-RING						
		1	174-0503	1	KIT-CONNECTING PLUG (3-PIN) (INCLUDES PLUG AS AND WEDGE)						
	5	1	4B-5324	4	WASHER (3.9X9.6X1.2-MM THK)						
	6	1	4L-6454	2	BOLT (3/8-16X1-IN)						
	7	1	6V-8801	4	NUT (3/8-16-THD)						
	8	1	8T-4896	7	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	9	1	9X-6258	4	SCREW-MACHINE (6-32X0.5-IN)						



GRAPHIC #1

<END>

g00994674

ELECTRICAL AND STARTING SYSTEM

281-9194 WIRING GP-ELECTRONIC CONTROL

FOR USE WITH 230-2548-PAGE 357
AN ATTACHMENT

SMCS-1408, 1900

i02494568

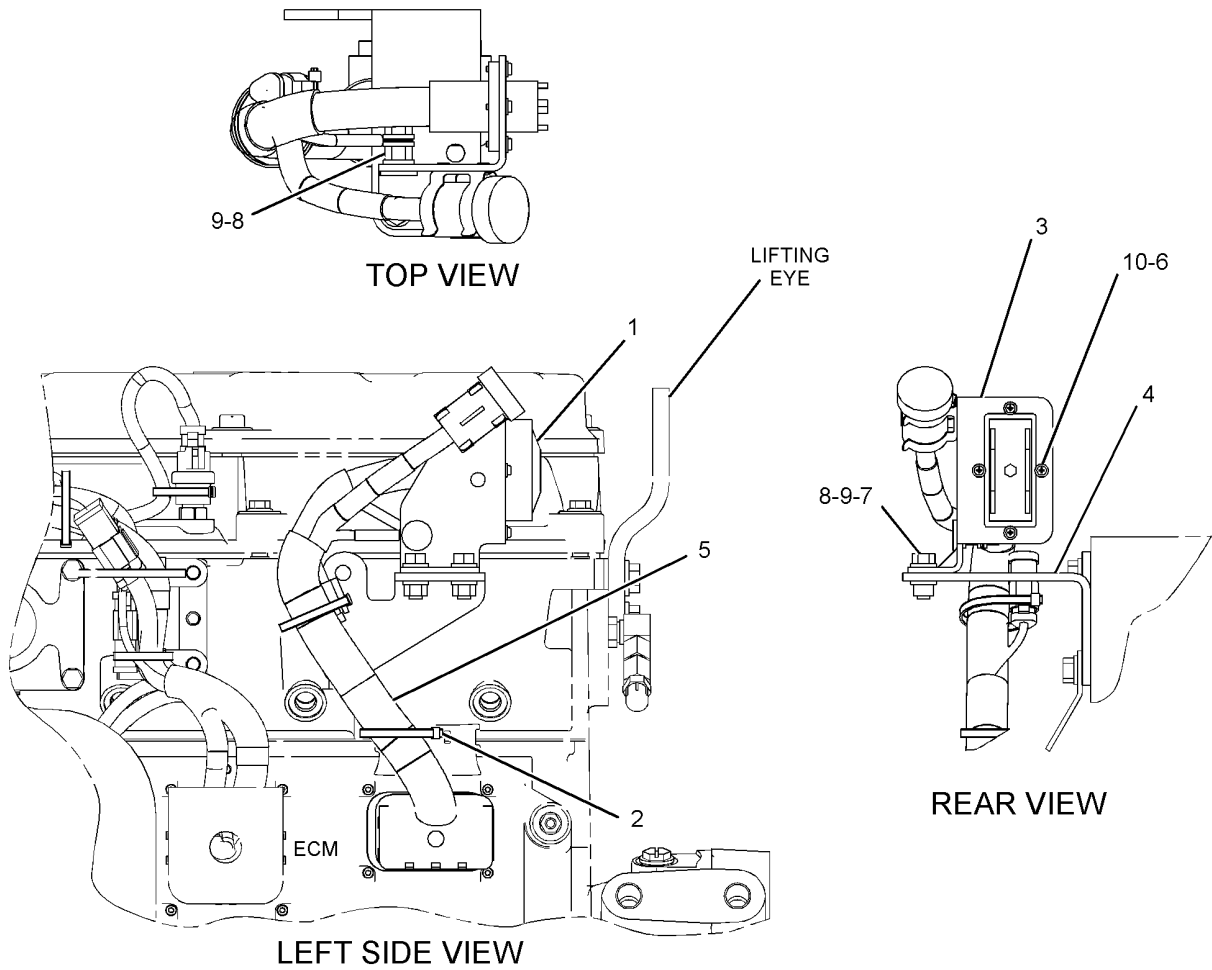
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3E-6443	1	CAP-CONNECTOR						
	2	1	3S-2093	1	STRAP-CABLE						
Y	3	1	131-5526	1	BRACKET AS (ECM HARNESS)						258
	4	1	221-5422	1	BRACKET						
	5	1	281-9195	1	HARNESS AS-CONTROL (ELECTRONIC CONTROL MODULE)						
		1	3S-2093	1	STRAP-CABLE						
		1	6I-4348	1	BOOT (40-PIN)						
		1	8C-6354	1	CAP-RECEPTACLE						
		1	8T-8736	1	RECEPTACLE-CONNECTOR (9-PIN)						
		1	9X-1343	1	RECEPTACLE AS-CONNECTOR (40-PIN)						
E		1	119-3662		TUBE-HEAT SHRINK (10.85-MM DIA) (13-CM)						
E		1	125-7874		TUBE-HEAT SHRINK (5.72-MM DIA) (10-CM)						
E		1	125-7875		TUBE-HEAT SHRINK (7.44-MM DIA) (10-CM)						
		1	134-2540	1	RECEPTACLE AS-CONNECTOR (3-PIN)						
	6	1	4B-5324	4	WASHER (3.9X9.6X1.2-MM THK)						
	7	1	4L-6454	2	BOLT (3/8-16X1-IN)						
	8	1	6V-8801	4	NUT (3/8-16-THD)						
	9	1	8T-4896	7	WASHER-HARD (10.2X18.5X2.5-MM THK)						
	10	1	9X-6258	4	SCREW-MACHINE (6-32X0.5-IN)						

E-ORDER BY THE CENTIMETER
Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

281-9194 WIRING GP-ELECTRONIC CONTROL (contd.)

i02494568



GRAPHIC #1

<END>

g01250802

ELECTRICAL AND STARTING SYSTEM

195-0131 WIRING GP-ENGINE-CONTROL PANEL

AN ATTACHMENT

SMCS-1000, 1408

i02454217

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
	194-4613	1	HARNESS AS-WIRING (CONTROL PANEL)						
	8T-9834	1	PLUG AS-CONNECTOR (40-PIN)						
	3E-4367	1	RING-RETAINING						
M	3E-8557	1	BOLT (M5X0.8X39.37-MM)						
	9X-3132	2	SEAL-CONNECTOR (40-PIN)						
	155-2255	1	KIT-CONNECTING PLUG (12-PIN) (WIRING HARNESS) (INCLUDES PLUG AS AND WEDGE)						
	155-2260	1	KIT-CONNECTING PLUG (3-PIN) (WIRING HARNESS) (INCLUDES PLUG AS AND WEDGE)						
	155-2270	1	KIT-CONNECTING PLUG (2-PIN) (WIRING HARNESS) (INCLUDES PLUG AS AND WEDGE)						
	155-2274	1	KIT-CONNECTING PLUG (6-PIN) (WIRING HARNESS) (INCLUDES PLUG AS AND WEDGE)						
	8N-1542	1	PIN-CONNECTOR						
	127-5485	1	PLUG AS-CONNECTOR (1-PIN)						
	127-5486	1	RECEPTACLE AS-CONNECTOR (1-PIN)						
	8N-1543	1	SOCKET-CONNECTOR (10-GA)						
	9W-0844	2	SOCKET-CONNECTOR (14-GA)						
	186-3736	4	SOCKET-CONNECTOR (16-GA TO 18-GA)						
	2L-8066	1	TERMINAL-RING (10-GA TO 12-GA, NO 10 SCREW)						
	2L-8081	2	TERMINAL (14-GA TO 16-GA)						
	2L-8071	1	TERMINAL (10-GA TO 12-GA, 1/2-IN SCREW)						
	155-2263	1	WEDGE-PLUG LOCK (6-PIN)						
D	5P-5624		WIRE (14-GA, BLACK) (5-M)						
D	5P-5622		WIRE (10-GA, BLACK) (5-M)						

D-ORDER BY THE METER
M-METRIC PART

<END>

ELECTRICAL AND STARTING SYSTEM

231-1935 WIRING GP-ENGINE ELECTRONIC

AN ATTACHMENT

SMCS-1408, 1900

i02390052

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	3S-2093	17	STRAP-CABLE						
	2	1	4P-5918	1	CLIP						
	3	1	215-3249	1	HARNESS AS-ENGINE (UNIT INJECTOR)						
		1	3S-2093	5	STRAP-CABLE						
		1	191-7823	1	RECEPTACLE AS						
	4	1	235-8202	1	HARNESS AS-ENGINE (ELECTRONIC CONTROL MODULE)						
		1	102-8802	1	KIT-RECEPTACLE (2-PIN)						
					(INCLUDES RECEPTACLE AS AND WEDGE)						
		1	102-8803	1	KIT-RECEPTACLE (3-PIN)						
					(INCLUDES RECEPTACLE AS AND WEDGE)						
		1	100-3320	1	PLUG AS-CONNECTOR (2-PIN)						
		1	126-5011	1	SEAL-CONNECTOR						
		1	111-2416	1	PLUG AS-CONNECTOR (2-PIN)						
		1	126-5011	1	SEAL-CONNECTOR						
		1	119-3662	33	TUBE-HEAT SHRINK (10.85-MM DIA)						
		1	125-7874	5	TUBE-HEAT SHRINK (5.72-MM DIA)						
		1	125-7875	10	TUBE-HEAT SHRINK (7.44-MM DIA)						
		1	155-2265	1	KIT-CONNECTING PLUG (8-PIN)						
					(INCLUDES PLUG AS AND WEDGE)						
		1	155-2260	3	KIT-CONNECTING PLUG (3-PIN)						
					(EACH INCLUDES PLUG AS AND WEDGE)						
		1	155-2270	5	KIT-CONNECTING PLUG (2-PIN)						
					(EACH INCLUDES PLUG AS AND WEDGE)						
		1	172-6062	1	PLUG AS-CONNECTOR (18-PIN)						
		1	211-6807	1	COVER (CONNECTOR)						
		1	227-4002	1	PLUG AS-CONNECTOR (108-PIN)						
	5	1	132-5789	1	CLIP						
	6	1	4P-7581	4	CLIP						
	7	1	4P-8134	1	CLIP						
M	8	1	5P-7970	2	NUT (M8X1.25-THD)						
	9	1	6V-4369	1	CLIP						
M	10	1	6V-5217	1	BOLT (M8X1.25X20-MM)						
	11	1	6V-5839	1	WASHER (11X21X2.5-MM THK)						
M	12	1	7I-2272	2	BOLT (M5X0.8X12-MM)						
	13	1	8T-0328	2	WASHER-HARD (5.5X10X1-MM THK)						
M	14	1	8T-4137	1	BOLT (M10X1.5X20-MM)						
	15	1	8T-4205	1	WASHER-HARD (7.2X14.5X2-MM THK)						
M	16	1	8T-5451	1	BOLT (M6X1X12-MM)						
	17	1	9M-1974	2	WASHER-HARD (8.8X16X2-MM THK)						

M-METRIC PART

ELECTRICAL AND STARTING SYSTEM

242-7478 WIRING GP-HEATER

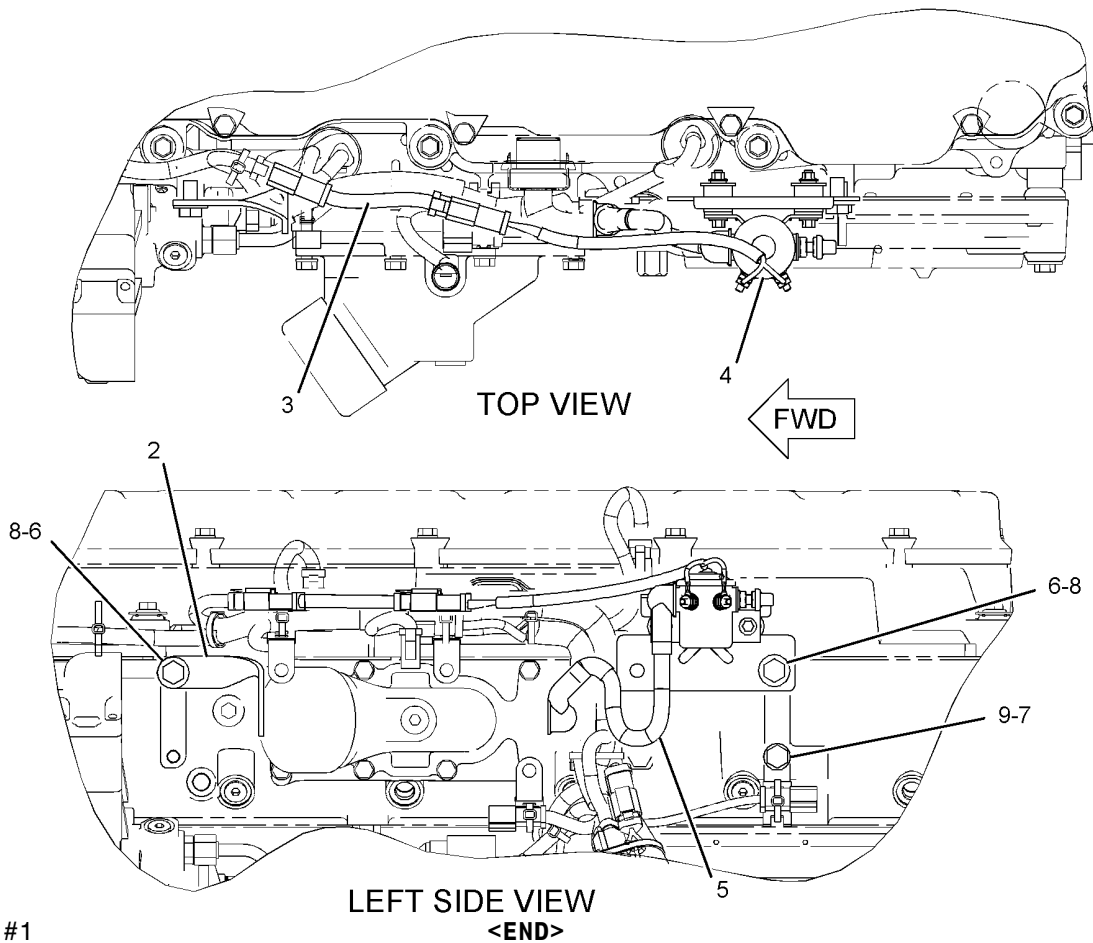
12-VOLT. AIR INLET
AN ATTACHMENT

SMCS-1090, 1408

i02292209

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	2	1	180-8292	1	STRAP-GROUNDING						
	3	1	189-9108	1	HARNES AS-SENSOR (FUEL TEMPERATURE)						
		1	102-8802	1	KIT-RECEPTACLE (2-PIN) (INCLUDES RECEPTACLE AS AND WEDGE)						
		1	155-2270	1	KIT-CONNECTING PLUG (2-PIN) (INCLUDES PLUG AS AND WEDGE)						
Y	4	1	212-7766	1	SWITCH GP-MAGNETIC (12-VOLT) (FUEL HEATER)						414
	5	1	251-5894	1	CABLE AS						
	6	1	3E-4353	2	WASHER-HARD (11X25X3-MM THK)						
	7	1	6V-5839	1	WASHER (11X21X2.5-MM THK)						
M	8	1	6V-6317	2	BOLT (M10X1.5X20-MM)						
M	9	1	6V-8212	1	BOLT (M10X1.5X16-MM)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

g01065094

OPERATOR STATION

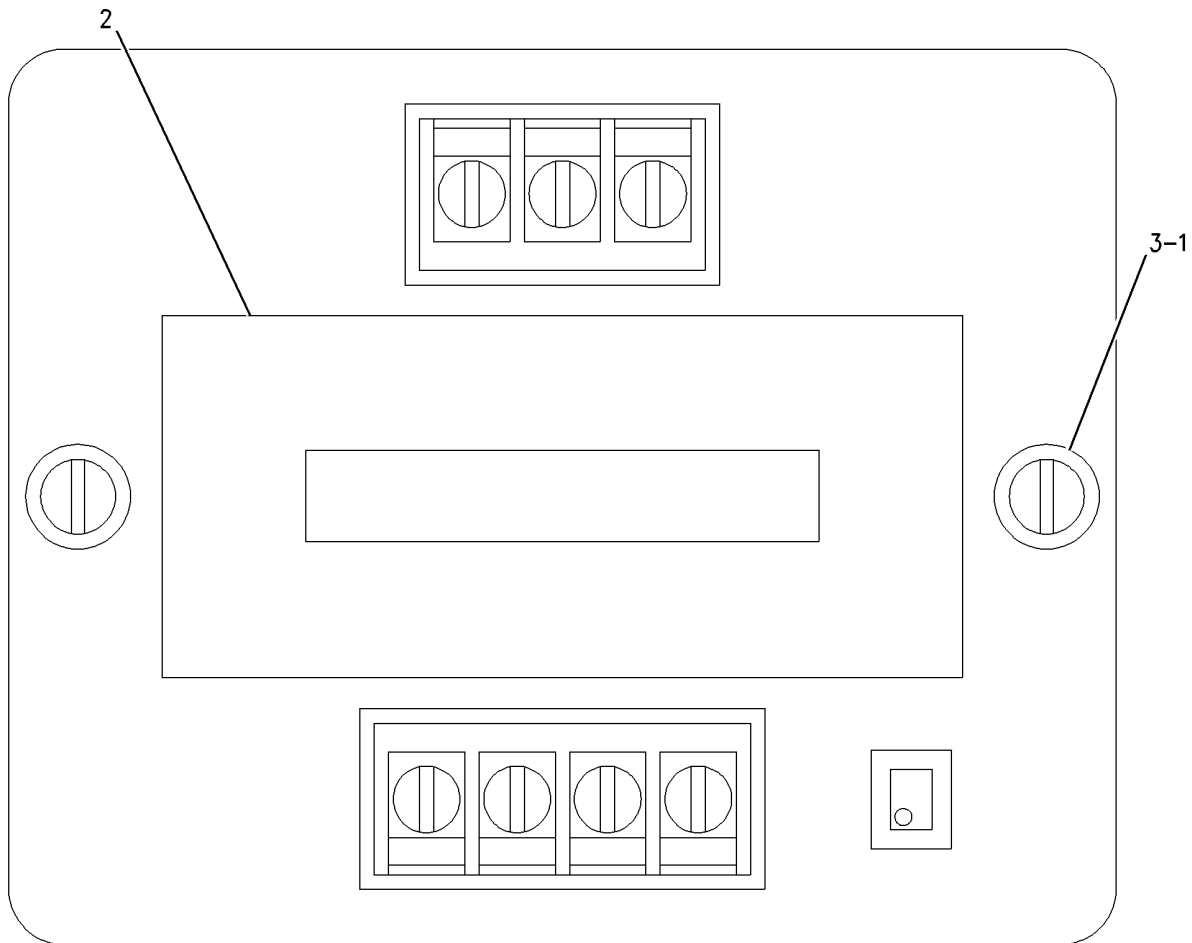
9X-9591 CONVERTER GP-ELECTRICAL

AN ATTACHMENT

SMCS-1421

i01582288

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

<END>

g00774430

SERVICE EQUIPMENT AND SUPPLIES

6L-4502 CHART-PLATE & FILM

SMCS-7557

i02302037

NOTE	PART NUMBER	QTY	PART NAME 1 2 3 4 5 6 (PRODUCT LEVEL)	SEE PAGE
	229-5663	1	FILM-STRIPE (CAT, C9, ACERT) INSTALL ON TOP FLAT SURFACE OF VALVE COVER CENTERED IN MIDDLE DEPRESSION. READABLE FROM RH SIDE OF ENGINE.	
	136-9066	1	FILM-ENGINE OIL INSTALL ON OIL FILTER BASE ABOVE AND TO THE RIGHT OF OIL FILTER AS ON CURVED SURFACE, READABLE FROM RH SIDE OF ENGINE.	
	228-3581	2	FILM-WARNING (READ OMM) INSTALL ONE ON LH SIDE OF ENGINE ON VERTICAL SURFACE OF FRONT FIRST RAISED SECTION OF VALVE COVER.	
			INSTALL ONE ON RH SIDE OF ENGINE ON VERTICAL SURFACE OF SECOND RAISED SECTION OF VALVE COVER FROM THE REAR OF THE ENGINE.	
	4W-1413	1	PLATE-SERIAL NUMBER (ENGINE) INSTALL WITH LOCTITE COMPANY DEPEND ADHESIVE ON LH SIDE OF CYLINDER BLOCK TOWARD THE TOP AND REAR FLAT AREA THAT WOULD BE ABOVE AND BEHIND THE ECM WHEN MOUNTED.	
	8L-8413	1	STRAP-CABLE INSTALL PRESTART TAG.	
	3N-3469	1	TAG-INSTRUCTION (ENGINE PRESTART) INSTALL ON RH OR LH SIDE ENGINE IN A VISIBLE LOCATION. DO NOT INSTALL ON FRONT OR REAR OF ENGINE OR COMPONENT.	
<END>				

MEMORANDA

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