

Parts Manual



See "General Information"
for New Parts Manual
Features.

C4.4 Marine Gen Set

L1K1-Up (Generator Set)
S1M1-Up (Generator Set)
D1K1-Up (Engine)
J1Z1-Up (Engine)

This Parts Manual is also Available in PDF Format on Compact Disk
(CD-ROM)- Caterpillar Form No. SERP4152

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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* NO HAY TRADUCCION DISPONIBLE EN EL MOMENTO DE LA IMPRESION

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* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

GENERAL INFORMATION

1. ENGINE IDENTIFICATION

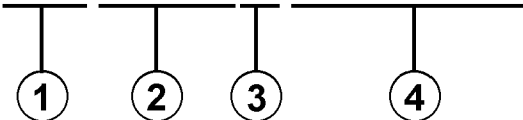
Caterpillar engines are identified with Serial Numbers and Arrangement Numbers. In some cases, Modification Numbers are also used. The serial number plate which shows these numbers is mounted on the engine.

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.

New Feature

Effective First Quarter 2001 the Caterpillar Product Identification Number (PIN) changed from 8 to 17 characters. In an effort to provide uniform equipment identification, Caterpillar and other construction equipment manufacturers are moving to comply with the latest version of the product identification numbering standard. Non-road machine PINs are defined by ISO 10261. The new PIN format will apply to all Caterpillar machines and generator sets. The PIN plates and frame marking will display the 17 character PIN. The new format will look like the following:

CAT 0789BG 6SL12345



Where:

1. Caterpillar's World Manufacturing Code (characters 1-3)
2. Machine Descriptor (characters 4-8)
3. Check Character (character 9)
4. Machine Indicator Section (MIS) or Product Sequence Number (characters 10-17). These were previously referred to as the Serial Number.

Machines and generator sets produced before First Quarter 2001 will maintain their 8 character PIN format.

Components such as engines, transmissions, axles, etc. and work tools will continue to use an 8 character Serial Number (S/N).

2. ORDERING PARTS

WARNING

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

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

Quality Caterpillar replacement parts are available from Caterpillar dealers throughout the world. Their parts inventories are up to date and include all parts normally required to protect your investment in Caterpillar machines. 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. Engine Arrangement and Seat Group are examples of information elements. 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.

GENERAL INFORMATION

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 of 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.

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

14. REPLACEMENT PARTS FOR GENERATORS

Only those generators which are sold and serviced exclusively by "Caterpillar" Dealers are illustrated on the following pages. Externally-regulated "Caterpillar" Diesel Electric Sets are equipped with generators made by other manufacturers. Parts for these generators are NOT serviced by Caterpillar Inc. Parts lists and parts should be ordered from the manufacturer whose name is shown on the Generator Name Plate, always giving the generator rating and serial number shown.

 **New Feature**

15. 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.

GENERAL INFORMATION

16. <END>

This symbol indicates the end of an information element.

NOTE:

Continuing improvement and advancement of product design may cause changes to your machine 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

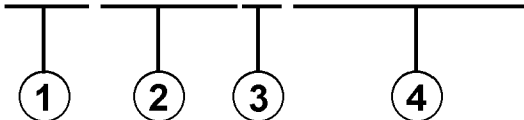
Les moteurs Caterpillar portent des numéros de série et des numéros de version. Dans certains cas, des numéros de modification sont aussi utilisés. Ces numéros figurent sur la plaque de numéro de série qui se trouve sur le moteur.

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.

Nouvelle Caractéristique

À partir du premier trimestre 2001, le numéro d'identification produit (PIN) Caterpillar passe de 8 à 17 caractères. Afin de permettre une identification uniforme des matériels, Caterpillar et d'autres constructeurs de machines de travaux publics s'efforcent de se conformer à la norme la plus récente portant sur les numéros d'identification des produits. Les numéros d'identification (PIN) de machines de chantier sont définis par la norme ISO 10261. Le nouveau format du numéro d'identification est valable pour toutes les machines et tous les groupes électrogènes Caterpillar. Le numéro d'identification produit (PIN) figurant sur la plaque et sur le châssis se composera de 17 caractères. Le nouveau format ressemblera à ceci:

* C A T 0 7 8 9 B G 6 S L 1 2 3 4 5 *



Il se décomposera de la façon suivante:

1. Code international de fabrication de Caterpillar (caractères 1 à 3)
2. Descriptif de la machine (caractères 4 à 8)
3. Contrôle (caractère 9)
4. Indicateur machine (MIS) ou numéro de séquence produit (caractères 10 à 17). Ceux-ci étaient auparavant désignés sous le terme de numéro de série.

Les machines et les groupes électrogènes construits avant le premier trimestre 2001 garderont le format à 8 caractères du numéro d'identification produit (PIN).

Les organes tels que les moteurs, les boîtes de vitesses, les essieux, etc., continueront d'être désignés par un numéro de série (S/N) à 8 caractères.

2. COMMANDE DE PIÈCES

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 machines 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) et "Seat Group" (assemblage de siège) sont des exemples d'éléments 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.

GÉNÉRALITÉS

6. INDEX

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

7. INDEX DES NUMÉROS DE PIÈCES

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

8. LÉGENDES

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



Nouvelle Caractéristique

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

9. PIÈCES NON FOURNIES



Nouvelle Caractéristique

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

10. NUMÉROS DE RÉFÉRENCE DE LA LISTE DES PIÈCES



Nouvelle Caractéristique

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

11. INDENTED PART NAMES (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

GÉNÉRALITÉS

14. REMPLACEMENT DES PIÈCES D'ALTERNATEURS

Seuls les alternateurs vendus et entretenus exclusivement par les concessionnaires "Caterpillar" sont illustrés dans les pages suivantes. Les groupes électrogènes diesel Caterpillar à régulation extérieur sont équipés d'alternateurs fabriqués par d'autres constructeurs. Les pièces de ces alternateurs NE sont PAS entretenus par Caterpillar Inc. La liste des pièces et les pièces elles-mêmes doivent être commandées du constructeur dont le nom est inscrit sur la plaque signalétique de l'alternateur, en précisant la puissance nominale de l'alternateur ainsi que le numéro de série indiqués.

NOTA:

En raison du progrès technique et des améliorations continues apportées au matériel, votre machine comporte peut-être des modifications qui n'apparaissent pas dans la présente publication. En cas de doute sur un détail de votre machine 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.



Nueva Característica

A partir del primer trimestre del 2001, el Número de Identificación de Producto (PIN) de Caterpillar cambió de 8 a 17 caracteres. Para hacer más uniforme el método de identificación de equipos, Caterpillar y otros fabricantes de equipo de construcción han tomado medidas para cumplir con la versión más reciente de la norma de numeración de identificación de productos. Los Números de Identificación de Producto para máquinas que no se operan en carreteras son definidos por la norma ISO 10261. El nuevo formato PIN corresponderá a todas las máquinas y grupos electrógenos Caterpillar. Las placas y los caracteres PIN estampados en el bastidor mostrarán el PIN de 17 caracteres. El nuevo formato tendrá la apariencia siguiente:

CAT 0789BG 6SL12345

Significado de los caracteres:

1. Código de Fabricación Mundial de Caterpillar (caracteres 1-3)
2. Sección Descriptor de la Máquina (caracteres 4-8)
3. Carácter de Verificación (carácter 9)
4. Sección Indicador de la Máquina (MIS) o Número de Secuencia de Producto (caracteres 10-17). Anteriormente, estos caracteres constituían el Número de Serie.

Las máquinas y grupos electrógenos producidos antes del primer semestre del 2001 mantendrán su formato PIN de 8 caracteres.

Los componentes como motores, transmisiones, ejes, herramientas de trabajo, etc., continuarán usando un Número de Serie (S/N) de 8 caracteres.

2. COMO PEDIR REPUESTOS

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 máquinas 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 y los grupos de asientos son ejemplos de elementos 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.

INFORMACIÓN GENERAL

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.

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 de pieza correcto 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

INFORMACIÓN GENERAL

14. PIEZAS DE REPUESTOS PARA GENERADORES

Solamente los generadores que son vendidos y que reciben servicio exclusivamente de los distribuidores "Caterpillar" están ilustrados en las siguientes páginas. Externamente-regulado los juegos eléctricos diesel "Caterpillar" están equipados con generadores fabricados por otros fabricantes. Las piezas para estos generadores NO reciben servicio de Caterpillar Inc. Las listas de piezas y piezas deben ser pedidas por medio del fabricante cuyo nombre se encuentra en la placa del nombre del generador, además se debe dar la potencia de régimen y el número de serie indicado.



Nueva Característica

15. 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."

16. <END>

Este símbolo indica el final de un elemento de información.

NOTA:

Las continuas mejoras y adelantos en diseño podrían originar cambios a su máquina que no se incluyan 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

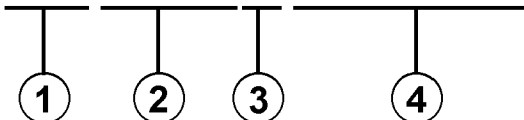
Os motores Caterpillar são identificadas pelos Números de Série e Números de Arranjo. Em alguns casos, Números de Modificação são também usados. A placa do número de série que exibe esses números encontra-se no motor.

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.

Novidades

A partir do primeiro trimestre de 2001 o Número de Identificação de Produto da Caterpillar (PIN) precisa ser mudado de 8 para 17 caracteres. Esforçando-se para fornecer uma identificação uniforme de equipamentos, a Caterpillar e outros fabricantes de equipamento de construção estão mudando para atender a versão mais atualizada do padrão de identificação de produtos. Os números de PIN para produtos de aplicações não rodoviárias são definidos pela ISO 10261. O novo formato de número PIN será adotado em todas as máquinas e grupos geradores Caterpillar. As placas e as marcações do chassi mostrarão os 17 dígitos de PIN. O novo formato terá a seguinte disposição:

*** C A T 0 7 8 9 B G 6 S L 1 2 3 4 5 ***



The diagram shows the 17-digit PIN structure: * C A T 0 7 8 9 B G 6 S L 1 2 3 4 5 *. Below the digits, there are four groups of digits indicated by brackets and circled numbers 1 through 4. Group 1 is 'CAT', Group 2 is '0789', Group 3 is 'B G', and Group 4 is '6 S L 1 2 3 4 5'.

Onde:

1. Código de Fabricação Mundial da Caterpillar (dígitos 1-3)
2. Descrição da Máquina (dígitos 4-8)
3. Dígito de Verificação (dígito 9)
4. Seção de Indicador da Máquina (MIS) ou Número de Seqüência de Produto (dígitos 10-17). Estes eram anteriormente chamados de Número de Série.

Máquinas e grupos geradores produzidos antes do primeiro trimestre de 2001 manterão o formato de 8 caracteres de PIN.

Componentes como motores, transmissões, eixos, ferramentas de trabalho, etc. continuarão a usar Número de Série (S/N) com oito caracteres.

2. COMO OBTER PEÇAS

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 máquinas 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. Arranjo de Motor e Grupo de Assento são exemplos de elementos 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.

INFORMAÇÃO GERAL

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*) .

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. ABREVIACÕES 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

INFORMAÇÃO GERAL

14. PEÇAS DE REPOSIÇÃO PARA GERADORES

Estão ilustrados nas páginas seguintes apenas os geradores vendidos e reparados exclusivamente pelos revendedores "Caterpillar". Os Conjuntos Elétricos à Diesel da "Caterpillar" regulados externamente são equipados com geradores fabricados por outras firmas. Peças para estes geradores NÃO são fornecidas pela Caterpillar Inc. Índices de peças e peças devem ser encomendados junto à firma cujo nome aparece na Placa de Nome do Gerador, sempre fornecendo a classificação do gerador e o número de série indicado.

 *Novidades*

15. <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 sua máquina 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

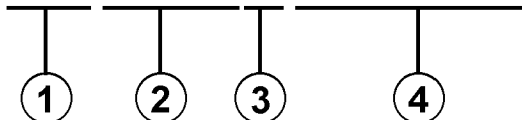
Caterpillar-Motoren sind mit SERIAL NUMBERS (Seriennummern) und ARRANGEMENT NUMBERS (Ausführungsnummern) gekennzeichnet. In einigen Fällen werden auch MODIFICATION NUMBERS (Änderungsnummern) erteilt. Diese Nummern befinden sich auf dem Typenschild des Motors.

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

Neu im Parts Manual

Vom ersten Quartal 2001 ab wurde die Caterpillar Produkt-Identnummer (PIN) von 8 auf 17 Zeichen geändert. Um zur Standardisierung der Produkt-Identnummer beizutragen, sind Caterpillar und andere Baumaschinenhersteller bestrebt, die aktuellste Norm zur Produkt-Identnummerierung einzuführen. Produkt-Identnummern für Baumaschinen sind durch ISO 10261 definiert. Das neue Format der Produkt-Identnummern gilt für alle Caterpillar-Maschinen und -Stromaggregate. Die Produkt-Identschilder und -Identrahmenmarkierung enthalten die aus 17 Zeichen bestehende Identnummer. Das neue Format hat folgende Abschnitte:

CAT 0789BG 6SL12345



Abschnitte:

1. Caterpillars weltweiter Herstellungscode (Zeichen 1-3)
2. Modell (Zeichen 4-8)
3. Kontrollzeichen (Zeichen 9)
4. Maschinenspezifische Kennung (MIS) oder Produktsequenznummer (Zeichen 10-17). Diese wurde früher als Seriennummer bezeichnet.

Für vor dem ersten Quartal 2001 hergestellte Maschinen und Stromaggregate wird das aus 8 Zeichen bestehende PIN-Format beibehalten.

Bauteile wie z.B. Motoren, Getriebe, Achsen sowie Arbeitsgeräte werden weiterhin eine aus 8 Zeichen bestehende Seriennummer (S/N) aufweisen.

2. BESTELLEN VON ERSATZTEILEN

Original Caterpillar-Ersatzteile können weltweit bei jedem Caterpillar-Händler bestellt werden. Die umfangreichen Händlerlager enthalten normalerweise alle Teile, die Sie für Ihre Caterpillar-Maschine 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) und SEAT GROUP (Fahrersitz) sind Beispiele 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.

ALLGEMEINE HINWEISE

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.)".

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 beigelegten 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

14. ERSATZTEILE FÜR GENERATOREN

Nur Generatoren, die ausschließlich von Caterpillar-Händlern verkauft und gewartet werden, sind auf den folgenden Seiten abgebildet. Generatoren von anderen Herstellern, die von Caterpillar-Motoren angetrieben werden, unterliegen aber nicht den Caterpillar-Servicebedingungen. Ersatzteile für diese Generatoren werden NICHT durch Caterpillar, Inc. gewartet. Ersatzteillisten und Ersatzteile können beim Hersteller des Generators, dessen Name sich auf dem Typenschild befindet, auf dem die Generator-Nennleistung und die Seriennummer eingepreßt sind, bestellt werden.



Neu im Parts Manual

15. 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 Ersatzteillhandbuch relevanten "Typen" angegeben. Es können zusätzliche Typen vorhanden sein, was zu "C" Anmerkungen zu einem Informationselement führen kann, wenn keine anderen Typen angegeben werden.

16.<END>

Dieses Symbol zeigt das Ende eines Informationselements an.

ANMERKUNG:

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

REPAIR ALTERNATIVES

REMANUFACTURED COMPONENTS

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

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

Typical components included in the Remanufacturing Program include:

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

Caterpillar Remanufactured engines for many engine arrangements are also available.

OPTIONS DE RÉPARATION

COMPOSANTS RÉNOVÉS

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

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

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

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

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

ALTERNATIVAS DE REPARACIÓN

COMPONENTES REMANUFACTURADOS

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

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

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

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

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

ALTERNATIVAS DE REPARO

COMPONENTES REMANUFATURADOS

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

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

Os componentes típicos que constam no Programa de Remanufatura incluem:

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

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

REPARATURALTERNATIVEN

WERKÜBERHOLTE AT-PRODUKTE

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

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

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

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

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

SUPPLEMENTAL COOLANT ADDITIVES

CUSTOMER BENEFITS:

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

- Provides measured coolant conditioner.

DESCRIPTION:

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

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

NOTE:

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

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

NOTE:

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

PARTS NEEDED:

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

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

() Indicates quantity required.

ADDITIFS POUR LIQUIDE DE REFROIDISSEMENT

AVANTAGES POUR LE CLIENT

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

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

DESCRIPTION:

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

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

NOTA:

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

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

NOTA:

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

PIÈCES NÉCESSAIRES:

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

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

() Indique la quantité exigée.

ADITIVOS DE REFRIGERANTE SUPLEMENTARIOS

VENTAJAS PARA EL USUARIO:

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

- Suministra un acondicionador dosificado de refrigerante.

DESCRIPCIÓN:

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

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

NOTA:

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

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

NOTA:

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

PIEZAS NECESARIAS:

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

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

() Indica la cantidad necesaria.

ADITIVOS SUPLEMENTARES DO LÍQUIDO ARREFECEDOR

BENEFÍCIOS PARA O CLIENTE:

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

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

DESCRIÇÃO:

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

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

NOTA:

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

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

NOTA:

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

PEÇAS NECESSÁRIAS:

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

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

() Indica a quantidade exigida.

KÜHLMITTELZUSATZ

VORTEILE FÜR DEN KUNDEN:

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

- Richtig dosierter Kühlmittelzusatz

BESCHREIBUNG:

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

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

ANMERKUNG:

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

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

ANMERKUNG:

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

TEILEBEZEICHNUNG:

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

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

() Erforderliche Anzahl

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
AIR INLET AND EXHAUST SYSTEM				
FILTER-BREATHER (CLOSED CIRCUIT CRANKCASE)	229-3555	1	AIR CLEANER GP	141
FILTER ELEMENT-AIR (PRIMARY)	123-2367	1	AIR CLEANER GP	140
FILTER ELEMENT-AIR (SECONDARY)	123-2368	1	AIR CLEANER GP	140
FILTER ELEMENT AS-AIR (PRIMARY)	110-6326	1	AIR CLEANER GP	139
	233-5182	1	AIR CLEANER GP	138
FILTER ELEMENT AS-AIR (SECONDARY)	110-6331	1	AIR CLEANER GP	139
	233-5184	1	AIR CLEANER GP	138
HOSE (BREATHER TURBO)	264-8909	1	AIR CLEANER GP	141
HOSE (CRANKCASE BREATHER UPPER)	264-8924	1	AIR CLEANER GP	141
HOSE (100-CM) (CRANKCASE BREATHER LOWER)	268-6427		AIR CLEANER GP	141
SEAL-O-RING (CRANKCASE BREATHER)	262-1046	1	AIR CLEANER GP	141
BASIC ENGINE				
CAP AS (ENGINE OIL FILLER)	130-9888	1	COVER GP-VALVE MECHANISM	28
		1	COVER GP-VALVE MECHANISM	30
	136-3608	1	COVER GP-VALVE MECHANISM	28
		1	COVER GP-VALVE MECHANISM	30
		1	COVER GP-VALVE MECHANISM	32
		1	COVER GP-VALVE MECHANISM	34
GASKET (VALVE COVER)	225-6451	1	COVER GP-VALVE MECHANISM	28
		1	COVER GP-VALVE MECHANISM	30
		1	COVER GP-VALVE MECHANISM	32
		1	COVER GP-VALVE MECHANISM	34
HOSE (CRANKCASE BREATHER)	198-8645	1	COVER GP-VALVE MECHANISM	28
		1	COVER GP-VALVE MECHANISM	30
PLUG-DRAIN (ENGINE OIL)	7C-0351	2	PAN GP-OIL	62
		2	PAN GP-OIL	64
SPRING (CRANKCASE BREATHER HOSE)	162-1565	1	COVER GP-VALVE MECHANISM	30
		1	COVER GP-VALVE MECHANISM	28
COOLING SYSTEM				
CAP-PRESSURE (7-PSI) (EXPANSION TANK)	230-5119	1	TANK GP-COOLANT	129
		1	TANK GP-COOLANT	131
		1	TANK GP-EXPANSION	133
CONNECTION AS (INCLUDES WATER TEMP REGULATOR)	254-2268	1	CONNECTION GP-WATER	90
REGULATOR-WATER TEMPERATURE	293-0747	1	LINES GP-WATER	124
V-BELT (FAN) (INCLUDES ONE BELT)	269-9117	1	BELT GP	88

MAINTENANCE PARTS

DESCRIPTION	PART NUMBER	QTY	WHERE USED	PAGE
ELECTRICAL AND STARTING SYSTEM				
CIRCUIT-BREAKER (10-AMPERE)	274 - 1239	1	WIRING GP-ENGINE	258
		1	WIRING GP-ENGINE	262
		1	WIRING GP-INSTR & IGNITION	265
		1	WIRING GP-INSTR & IGNITION	267
CIRCUIT-BREAKER (80-AMPERE)	274 - 1240	1	WIRING GP-ENGINE	258
		1	WIRING GP-ENGINE	262
		1	WIRING GP-INSTR & IGNITION	265
		1	WIRING GP-INSTR & IGNITION	267
FUSE (RESET BUTTON) (6.5-AMPERE)	215 - 1262	3	WIRING GP-PANEL	269
		3	WIRING GP-PANEL	270
FUSE (5-AMPERE)	274 - 1237	1	WIRING GP-ENGINE	258
		1	WIRING GP-ENGINE	262
		1	WIRING GP-INSTR & IGNITION	265
		1	WIRING GP-INSTR & IGNITION	267
GLOW PLUG	226 - 8770	4	GLOW PLUG GP	222
GLOW PLUG (12-VOLT)	232 - 6662	4	GLOW PLUG GP	221
KEY (BATTERY DISCONNECT)	8H - 5306	1	SWITCH GP-DISCONNECT	244
KEY-LOCK (CIRCUIT BREAKER)	290 - 5533	1	WIRING GP-ENGINE	258
		1	WIRING GP-ENGINE	262
FUEL SYSTEM				
ELEMENT-FUEL FILTER	250 - 6527	1	FILTER & LINES GP-FUEL	170
		1	FILTER & LINES GP-FUEL	172
FILTER-FUEL	287 - 6052	2	FILTER GP-FUEL	174
PLUG-DRAIN (FUEL FILTER)	205 - 3041	1	FILTER & LINES GP-FUEL	170
		1	FILTER & LINES GP-FUEL	172
LUBRICATION SYSTEM				
FILTER AS-ENGINE OIL	7W - 2326	1	FILTER GP-ENGINE OIL	83
FILTER-BREATHER (CLOSED CIRCUIT CRANKCASE)	229 - 3555	1	BREATHER GP	80
		1	BREATHER GP	81
FILTER (ENGINE OIL)	081 - 4661	2	FILTER GP-ENGINE OIL	84
HOSE (CRANKCASE BREATHER)	292 - 8530	1	BREATHER GP	81
HOSE (CRANKCASE BREATHER UPPER)	292 - 8532	1	BREATHER GP	81
			BREATHER GP	81
HOSE (100-CM) (CRANKCASE BREATHER LOWER)	268 - 6427		BREATHER GP	81
SEAL-O-RING (CRANKCASE BREATHER)	262 - 1046	1	BREATHER GP	80
		1	BREATHER GP	81
OPERATOR STATION				
LAMP (12-VOLT, 2-WATT)	271 - 2724	2	PANEL AS-CONTROL	280
		2	PANEL AS-CONTROL	281
LAMP (24-VOLT, 2-WATT)	271 - 2723	2	PANEL AS-CONTROL	279
		2	PANEL AS-CONTROL	282

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT DE CARBURANT				
BOUCHON DE VIDANGE (FILTRE À CARBURANT)	205-3041	1	FILTRE ET CANALISATIONS DE CARBURANT (ASS)	170
		1	FILTRE ET CANALISATIONS DE CARBURANT (ASS)	172
ÉLÉMENT - FILTRE DE CARBURANT	250-6527	1	FILTRE ET CANALISATIONS DE CARBURANT (ASS)	170
		1	FILTRE ET CANALISATIONS DE CARBURANT (ASS)	172
FILTRE A CARBURANT	287-6052	2	FILTRE A CARBURANT (ASS)	174
CIRCUIT DE GRAISSAGE				
FILTRE - RENIFLARD (CARTER À CIRCUIT FERMÉ)	229-3555	1	RENIFLARD (ASS)	80
		1	RENIFLARD (ASS)	81
FILTRE A HUILE MOTEUR (ENS)	7W-2326	1	FILTRE À HUILE MOTEUR (ASS)	83
FILTRE (HUILE MOTEUR)	081-4661	2	FILTRE À HUILE MOTEUR (ASS)	84
FLEXIBLE (*CRANKCASE BREATHER UPPER)	292-8532	1	RENIFLARD (ASS)	81
FLEXIBLE (RENIFLARD DE CARTER)	292-8530	1	RENIFLARD (ASS)	81
FLEXIBLE (*100-CM) (*CRANKCASE BREATHER LOWER)	268-6427		RENIFLARD (ASS)	81
JOINT TORIQUE (RENIFLARD DE CARTER)	262-1046	1	RENIFLARD (ASS)	80
		1	RENIFLARD (ASS)	81
CIRCUIT DE REFROIDISSEMENT				
CONNEXION (ENS) (COMPREND UN THERMOMÈTRE)	254-2268	1	RACCORD D'EAU (ASS)	90
		1	COURROIE (ASS)	88
COURROIE TRAPEZOIDALE (VENTILATEUR) (COMPREND UNE COURROIE)	269-9117	1	COURROIE (ASS)	88
COUVERCLE DE PRESSION (7-PSI) (RÉSERVOIR D'EXPANSION)	230-5119	1	RESERVOIR D'EXPANSION (ASS)	133
		1	RÉSERVOIR DU LIQUIDE DE REFROIDISSEMENT (ASS)	129
		1	RÉSERVOIR DU LIQUIDE DE REFROIDISSEMENT (ASS)	131
THERMOSTAT-TEMPÉRATURE D'EAU	293-0747	1	CANALISATIONS D'EAU (ASS)	124

* TRADUCTION NON DISPONIBLE AU MOMENT DE LA PUBLICATION

PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
CIRCUIT ELECTRIQUE ET DE DEMARRAGE				
BOUGIE DE PRECHAUFFAGE	226-8770	4	BOUGIE DE PRÉCHAUFFAGE (ASS)	222
BOUGIE DE PRECHAUFFAGE (12V)	232-6662	4	BOUGIE DE PRÉCHAUFFAGE (ASS)	221
CLÉ (COUPE-BATTERIE)	8H-5306	1	ROBINET DE BATTERIE (ASS)	244
CLÉ DE VERROUILLAGE (DISJONCTEUR)	290-5533	1	CABLAGE DE MOTEUR (ASS)	258
DISJONCTEUR (10A)	274-1239	1	CABLAGE DE MOTEUR (ASS)	262
		1	CABLAGE DE MOTEUR (ASS)	258
		1	CABLAGE DE MOTEUR (ASS)	262
		1	CABLAGE D'INSTRUMENTS ET ALLUMAGE (ASS)	265
		1	CABLAGE D'INSTRUMENTS ET ALLUMAGE (ASS)	267
DISJONCTEUR (80A)	274-1240	1	CABLAGE DE MOTEUR (ASS)	258
		1	CABLAGE DE MOTEUR (ASS)	262
		1	CABLAGE D'INSTRUMENTS ET ALLUMAGE (ASS)	265
		1	CABLAGE D'INSTRUMENTS ET ALLUMAGE (ASS)	267
		3	CÂBLAGE DE PANNEAU (ASS)	269
FUSIBLE (BOUTON DE RÉARMEMENT) (6,5A)	215-1262	3	CÂBLAGE DE PANNEAU (ASS)	269
FUSIBLE (5A)	274-1237	3	CÂBLAGE DE PANNEAU (ASS)	270
		1	CABLAGE DE MOTEUR (ASS)	258
		1	CABLAGE DE MOTEUR (ASS)	262
		1	CABLAGE D'INSTRUMENTS ET ALLUMAGE (ASS)	265
		1	CABLAGE D'INSTRUMENTS ET ALLUMAGE (ASS)	267
MOTEUR				
BOUCHON DE VIDANGE (HUILE MOTEUR)	7C-0351	2	HUILE MOTEUR - CARTER (ASS)	62
CHAPEAU (ENS) (GOULOTTE D'HUILE MOTEUR)	136-3608	2	HUILE MOTEUR - CARTER (ASS)	64
		1	CACHE-SOUPAPES (ASS)	32
		1	CACHE-SOUPAPES (ASS)	34
		1	CACHE-SOUPAPES (ASS)	28
		1	CACHE-SOUPAPES (ASS)	30
FLEXIBLE (RENIFLARD DE CARTER MOTEUR)	136-3608	1	CACHE-SOUPAPES (ASS)	28
		1	CACHE-SOUPAPES (ASS)	30
		1	CACHE-SOUPAPES (ASS)	30
		1	CACHE-SOUPAPES (ASS)	30
		1	CACHE-SOUPAPES (ASS)	28
JOINT PLAT (CACHE-SOUPAPES)	198-8645	1	CACHE-SOUPAPES (ASS)	28
		1	CACHE-SOUPAPES (ASS)	30
		1	CACHE-SOUPAPES (ASS)	28
		1	CACHE-SOUPAPES (ASS)	32
		1	CACHE-SOUPAPES (ASS)	34
RESSORT (FLEXIBLE DE RENIFLARD DE CARTER MOTEUR)	225-6451	1	CACHE-SOUPAPES (ASS)	28
		1	CACHE-SOUPAPES (ASS)	30
RESSORT (FLEXIBLE DE RENIFLARD DE CARTER MOTEUR)	162-1565	1	CACHE-SOUPAPES (ASS)	28
		1	CACHE-SOUPAPES (ASS)	30

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PIÈCES DE RECHANGE

DESCRIPTION	NUMÉRO DE PIÈCES	QTÉ	DOMAINE D'APPLICATION	PAGE
POSTE DE CONDUITE				
AMPOULE (12V, 2W)	271 - 2724	2	PANNEAU DE COMMANDE	280
		2	PANNEAU DE COMMANDE	281
AMPOULE (24V, 2W)	271 - 2723	2	PANNEAU DE COMMANDE	279
		2	PANNEAU DE COMMANDE	282
SYSTEME D'ÉCHAPPEMENT ET D'ADMISSION D'AIR				
ÉLÉMENT DE FILTRE À AIR (ENS) (PRINCIPAL)	233 - 5182	1	FILTRE A AIR (ASS)	138
	110 - 6326	1	FILTRE A AIR (ASS)	139
ÉLÉMENT DE FILTRE À AIR (ENS) (SECONDAIRE)	110 - 6331	1	FILTRE A AIR (ASS)	139
	233 - 5184	1	FILTRE A AIR (ASS)	138
ÉLÉMENT DE FILTRE À AIR (PRINCIPAL)	123 - 2367	1	FILTRE A AIR (ASS)	140
ÉLÉMENT DE FILTRE À AIR (SECONDAIRE)	123 - 2368	1	FILTRE A AIR (ASS)	140
FILTRE - RENIFLARD (CARTER À CIRCUIT FERMÉ)	229 - 3555	1	FILTRE A AIR (ASS)	141
FLEXIBLE (*BREATHER TURBO)	264 - 8909	1	FILTRE A AIR (ASS)	141
FLEXIBLE (*CRANKCASE BREATHER UPPER)	264 - 8924	1	FILTRE A AIR (ASS)	141
FLEXIBLE (*100-CM) (*CRANKCASE BREATHER LOWER)	268 - 6427		FILTRE A AIR (ASS)	141
JOINT TORIQUE (RENIFLARD DE CARTER)	262 - 1046	1	FILTRE A AIR (ASS)	141

* TRADUCTION NON DISPONIBLE AU MOMENT DE LA PUBLICATION

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
MOTOR BÁSICO				
EMPAQUETADURA (TAPA DE VÁLVULA)	225 - 6451	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	28
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	30
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	32
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	34
MANGUERA (RESPIRADERO DE CARTER)	198 - 8645	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	28
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	30
RESORTE (MANGUERA DEL RESPIRADERO DEL CÁRTER)	162 - 1565	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	28
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	30
TAPÓN (CONJ) (LLENADO DE ACEITE DEL MOTOR)	130 - 9888	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	28
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	30
	136 - 3608	1	TAPA DEL MECANISMO DE VÁLVULAS (GR)	28
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	30
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	32
			TAPA DEL MECANISMO DE VÁLVULAS (GR)	34
TAPÓN DE DRENAJE (ACEITE DE MOTOR)	7C - 0351	2	CÁRTER - COLECTOR DEL (GR)	62
			CÁRTER - COLECTOR DEL (GR)	64
PUESTO DEL OPERADOR				
LÁMPARA (12 VOLTIOS, 2 VATIOS)	271 - 2724	2	PANEL DE CONTROL (CONJ)	280
			PANEL DE CONTROL (CONJ)	281
LÁMPARA (*24-VOLT, 2-WATT)	271 - 2723	2	PANEL DE CONTROL (CONJ)	279
			PANEL DE CONTROL (CONJ)	282

* NO HAY TRADUCCION DISPONIBLE EN EL MOMENTO DE LA IMPRESION

PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA DE ADMISION DE AIRE Y ESCAPE				
ELEMENTO DE FILTRO DE AIRE (PRIMARIO)	123 - 2367	1	FILTRO DE AIRE (GR)	140
ELEMENTO DE FILTRO DE AIRE (SECUNDARIO)	123 - 2368	1	FILTRO DE AIRE (GR)	140
ELEMENTO DEL FILTRO DE AIRE (CONJ) (PRIMARIO)	110 - 6326	1	FILTRO DE AIRE (GR)	139
	233 - 5182	1	FILTRO DE AIRE (GR)	138
ELEMENTO DEL FILTRO DE AIRE (CONJ) (SECUNDARIO)	110 - 6331	1	FILTRO DE AIRE (GR)	139
	233 - 5184	1	FILTRO DE AIRE (GR)	138
*FILTER-BREATHER (*CLOSED CIRCUIT CRANKCASE)	229 - 3555	1	FILTRO DE AIRE (GR)	141
MANGUERA (*BREATHER TURBO)	264 - 8909	1	FILTRO DE AIRE (GR)	141
MANGUERA (*CRANKCASE BREATHER UPPER)	264 - 8924	1	FILTRO DE AIRE (GR)	141
MANGUERA (*100-CM) (*CRANKCASE BREATHER LOWER)	268 - 6427		FILTRO DE AIRE (GR)	141
SELLO ANULAR (RESPIRADERO DEL CARTER)	262 - 1046	1	FILTRO DE AIRE (GR)	141
SISTEMA DE COMBUSTIBLE				
ELEMENTO DEL FILTRO DE COMBUSTIBLE	250 - 6527	1	FILTRO Y TUBERÍAS DE COMBUSTIBLE (GR)	170
		1	FILTRO Y TUBERÍAS DE COMBUSTIBLE (GR)	172
FILTRO DE COMBUSTIBLE	287 - 6052	2	FILTRO DE COMBUSTIBLE (GR)	174
TAPÓN DE DRENAJE (FILTRO DE COMBUSTIBLE)	205 - 3041	1	FILTRO Y TUBERÍAS DE COMBUSTIBLE (GR)	170
		1	FILTRO Y TUBERÍAS DE COMBUSTIBLE (GR)	172
SISTEMA DE ENFRIAMIENTO				
*CONNECTION AS (*INCLUDES WATER TEMP REGULATOR)	254 - 2268	1	AGUA - CONEXIÓN DE (GR)	90
CORREA TRAPEZOIDAL (VENTILADOR) (*INCLUDES ONE BELT)	269 - 9117	1	CORREA (GR)	88
REGULADOR DE TEMPERATURA DEL AGUA	293 - 0747	1	TUBERÍAS DEL AGUA (GR)	124
TAPA DE PRESION (7 LB/PULG2) (TANQUE DE EXPANSION)	230 - 5119	1	TANQUE DE EXPANSIÓN (GR)	133
		1	TANQUE DE REFRIGERANTE (GR)	129
		1	TANQUE DE REFRIGERANTE (GR)	131

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PIEZAS DE MANTENIMIENTO

DESCRIPCION	NUMERO DE PIEZA	CANT	SE UTILIZA EN	PAGINA
SISTEMA DE LUBRICACIÓN				
*FILTER-BREATHER (*CLOSED CIRCUIT CRANKCASE)	229 - 3555	1	RESPIRADERO (GR)	80
		1	RESPIRADERO (GR)	81
FILTRO (ACEITE DEL MOTOR)	081 - 4661	2	FILTRO DE ACEITE DEL MOTOR (GR)	84
FILTRO DE ACEITE DEL MOTOR (CONJ)	7W - 2326	1	FILTRO DE ACEITE DEL MOTOR (GR)	83
MANGUERA (*CRANKCASE BREATHER UPPER)	292 - 8532	1	RESPIRADERO (GR)	81
MANGUERA (RESPIRADERO DEL CARTER)	292 - 8530	1	RESPIRADERO (GR)	81
MANGUERA (*100-CM) (*CRANKCASE BREATHER LOWER)	268 - 6427		RESPIRADERO (GR)	81
SELLO ANULAR (RESPIRADERO DEL CARTER)	262 - 1046	1	RESPIRADERO (GR)	80
		1	RESPIRADERO (GR)	81
SISTEMA ELECTRICO Y DE ARRANQUE				
BUJÍA INCANDESCENTE	226 - 8770	4	BUJÍA INCANDESCENTE (GR)	222
BUJÍA INCANDESCENTE (12 VOLTIOS)	232 - 6662	4	BUJÍA INCANDESCENTE (GR)	221
DISYUNTOR DE CIRCUITO (10-AMPERIOS)	274 - 1239	1	CABLES DEL MOTOR (GR)	258
		1	CABLES DEL MOTOR (GR)	262
		1	GRUPO DE CABLES DE LOS INSTRUMENTOS Y ENCENDIDO	265
		1	GRUPO DE CABLES DE LOS INSTRUMENTOS Y ENCENDIDO	267
DISYUNTOR DE CIRCUITO (80 AMPERIOS)	274 - 1240	1	CABLES DEL MOTOR (GR)	258
		1	CABLES DEL MOTOR (GR)	262
		1	GRUPO DE CABLES DE LOS INSTRUMENTOS Y ENCENDIDO	265
		1	GRUPO DE CABLES DE LOS INSTRUMENTOS Y ENCENDIDO	267
FUSIBLE (BOTÓN DE REACTIVACIÓN) (*6.5-AMPERE)	215 - 1262	3	CABLES DEL TABLERO (GR)	269
		3	CABLES DEL TABLERO (GR)	270
FUSIBLE (5-AMPERIOS)	274 - 1237	1	GRUPO DE CABLES DE LOS INSTRUMENTOS Y ENCENDIDO	267
		1	CABLES DEL MOTOR (GR)	258
		1	CABLES DEL MOTOR (GR)	262
		1	GRUPO DE CABLES DE LOS INSTRUMENTOS Y ENCENDIDO	265
*KEY-LOCK (DISYUNTOR)	290 - 5533	1	CABLES DEL MOTOR (GR)	258
		1	CABLES DEL MOTOR (GR)	262
LLAVE (INTERRUPTOR GENERAL)	8H - 5306	1	DISYUNTOR (GR)	244

* 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 (ÓLEO DO MOTOR)	7C - 0351	2	CÁRTER DO ÓLEO DO MOTOR	62
		2	CÁRTER DO ÓLEO DO MOTOR	64
JUNTA (TAMPA DA VÁLVULA)	225 - 6451	1	TAMPA - MECANISMO DAS VÁLVULAS	28
		1	TAMPA - MECANISMO DAS VÁLVULAS	30
		1	TAMPA - MECANISMO DAS VÁLVULAS	32
		1	TAMPA - MECANISMO DAS VÁLVULAS	34
MANGUEIRA (RESPIRO DO CÁRTER)	198 - 8645	1	TAMPA - MECANISMO DAS VÁLVULAS	28
		1	TAMPA - MECANISMO DAS VÁLVULAS	30
MOLA (MANGUEIRA DO RESPIRO DO CÁRTER)	162 - 1565	1	TAMPA - MECANISMO DAS VÁLVULAS	28
		1	TAMPA - MECANISMO DAS VÁLVULAS	30
TAMPA (BOCAL DE ENCHIMENTO DO ÓLEO DO MOTOR)	130 - 9888	1	TAMPA - MECANISMO DAS VÁLVULAS	28
		1	TAMPA - MECANISMO DAS VÁLVULAS	30
	136 - 3608	1	TAMPA - MECANISMO DAS VÁLVULAS	28
		1	TAMPA - MECANISMO DAS VÁLVULAS	30
		1	TAMPA - MECANISMO DAS VÁLVULAS	32
		1	TAMPA - MECANISMO DAS VÁLVULAS	34
POSIÇÃO DE MARCHA À RÉ, INDICADOR DE FALHA				
CHAVE (DESCONEXÃO DA BATERIA)	8H - 5306	1	CHAVE GERAL	244
CHAVE-TRAVA (DISJUNTOR)	290 - 5533	1	CABOS/FIOS ELÉTRICOS - MOTOR	258
		1	CABOS/FIOS ELÉTRICOS - MOTOR	262
DISJUNTOR (10 AMPERES)	274 - 1239	1	CABOS/FIOS ELÉTRICOS - MOTOR	258
		1	CABOS/FIOS ELÉTRICOS - INSTRUMENTOS E IGNICÃO	265
		1	CABOS/FIOS ELÉTRICOS - INSTRUMENTOS E IGNICÃO	267
		1	CABOS/FIOS ELÉTRICOS - MOTOR	262
DISJUNTOR (80 AMPERES)	274 - 1240	1	CABOS/FIOS ELÉTRICOS - MOTOR	258
		1	CABOS/FIOS ELÉTRICOS - INSTRUMENTOS E IGNICÃO	265
		1	CABOS/FIOS ELÉTRICOS - INSTRUMENTOS E IGNICÃO	267
		1	CABOS/FIOS ELÉTRICOS - MOTOR	262
FUSÍVEL (BOTÃO DE RECONFIGURAÇÃO) (6,5 AMPÈRES)	215 - 1262	3	CABOS/FIOS ELÉTRICOS - PAINEL	269
		3	CABOS/FIOS ELÉTRICOS - PAINEL	270
FUSÍVEL (5 AMPÈRES)	274 - 1237	1	CABOS/FIOS ELÉTRICOS - INSTRUMENTOS E IGNICÃO	265
		1	CABOS/FIOS ELÉTRICOS - INSTRUMENTOS E IGNICÃO	267
		1	CABOS/FIOS ELÉTRICOS - MOTOR	258
		1	CABOS/FIOS ELÉTRICOS - MOTOR	262
VELA DE AQUECIMENTO; VELA INCANDESCENTE	226 - 8770	4	VELA DE AQUECIMENTO; VELA INCANDESCENTE	222
VELA DE AQUECIMENTO; VELA INCANDESCENTE (12 VOLTS)	232 - 6662	4	VELA DE AQUECIMENTO; VELA INCANDESCENTE	221

* TRADUÇÃO NÃO DISPONÍVEL NO MOMENTO DA IMPRESSÃO

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
POSTO DO OPERADOR				
LÂMPADA (12 VOLTS, 2 WATTS)	271 - 2724	2	PAINEL DE CONTROLE	280
		2	PAINEL DE CONTROLE	281
LÂMPADA (24 VOLTS, 2 WATTS)	271 - 2723	2	PAINEL DE CONTROLE	279
		2	PAINEL DE CONTROLE	282
SISTEMA DE ADMISSÃO E ESCAPE				
ELEMENTO DO FILTRO DE AR (PRIMÁRIO)	110 - 6326	1	PURIFICADOR DE AR	139
	233 - 5182	1	PURIFICADOR DE AR	138
ELEMENTO DO FILTRO DE AR (SECUNDÁRIO)	110 - 6331	1	PURIFICADOR DE AR	139
	233 - 5184	1	PURIFICADOR DE AR	138
ELEMENTO FILTRANTE - AR (PRIMÁRIO)	123 - 2367	1	PURIFICADOR DE AR	140
ELEMENTO FILTRANTE - AR (SECUNDÁRIO)	123 - 2368	1	PURIFICADOR DE AR	140
FILTRO - RESPIRO (CÁRTER DE CIRCUITO FECHADO)	229 - 3555	1	PURIFICADOR DE AR	141
MANGUEIRA (*BREATHUR TURBO)	264 - 8909	1	PURIFICADOR DE AR	141
MANGUEIRA (*CRANKCASE BREATHUR UPPER)	264 - 8924	1	PURIFICADOR DE AR	141
MANGUEIRA (*100-CM) (*CRANKCASE BREATHUR LOWER)	268 - 6427		PURIFICADOR DE AR	141
RETENTOR DE ANEL-O (RESPIRO DO CÁRTER DO ÓLEO DO MOTOR)	262 - 1046	1	PURIFICADOR DE AR	141
SISTEMA DE ARREFECIMENTO				
CONEXAO (INCLUI TERMOSTATO DE ÁGUA)	254 - 2268	1	CONEXÃO - TUBO D'ÁGUA	90
CORREIA EM V (VENTILADOR) (INCLUI UMA CORREIA)	269 - 9117	1	CORREIA	88
REGULADOR DE TEMPERATURA DA ÁGUA	293 - 0747	1	TUBOS - ÁGUA	124
TAMPA DE PRESSÃO (7 PSI) (TANQUE DE EXPANSÃO)	230 - 5119	1	TANQUE - LÍQUIDO ARREFECEDOR	129
		1	TANQUE - LÍQUIDO ARREFECEDOR	131
		1	TANQUE DE EXPANSÃO	133
SISTEMA DE COMBUSTÍVEL				
BUJÃO DO DRENO (FILTRO DE COMBUSTÍVEL)	205 - 3041	1	FILTRO E TUBOS - COMBUSTÍVEL	170
		1	FILTRO E TUBOS - COMBUSTÍVEL	172
ELEMENTO DO FILTRO DE COMBUSTÍVEL	250 - 6527	1	FILTRO E TUBOS - COMBUSTÍVEL	170
		1	FILTRO E TUBOS - COMBUSTÍVEL	172
FILTRO - COMBUSTÍVEL	287 - 6052	2	FILTRO - COMBUSTÍVEL	174

* TRADUÇÃO NÃO DISPONÍVEL NO MOMENTO DA IMPRESSÃO

PEÇAS DE MANUTENÇÃO

DESCRIÇÃO	NÚMERO DE PEÇA	QUANT	UTILIZADA EM	PÁGINA
SISTEMA DE LUBRIFICAÇÃO				
FILTRO - ÓLEO DO MOTOR	7W - 2326	1	FILTRO - ÓLEO DO MOTOR	83
FILTRO - RESPIRO (CÁRTER DE CIRCUITO FECHADO)	229 - 3555	1	RESPIRO	80
		1	RESPIRO	81
FILTRO (ÓLEO DO MOTOR)	081 - 4661	2	FILTRO - ÓLEO DO MOTOR	84
MANGUEIRA (*CRANKCASE BREATHER UPPER)	292 - 8532	1	RESPIRO	81
MANGUEIRA (RESPIRO DO CÁRTER DO ÓLEO DO MOTOR)	292 - 8530	1	RESPIRO	81
MANGUEIRA (*100-CM) (*CRANKCASE BREATHER LOWER)	268 - 6427		RESPIRO	81
RETENTOR DE ANEL-O (RESPIRO DO CÁRTER DO ÓLEO DO MOTOR)	262 - 1046	1	RESPIRO	80
		1	RESPIRO	81

* TRADUÇÃO NÃO DISPONÍVEL NO MOMENTO DA IMPRESSÃO

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
BEDIENUNGSSTAND				
LEUCHTE (12 V, 2 W)	271 - 2724	2	SCHALTTAFEL	280
		2	SCHALTTAFEL	281
LEUCHTE (*24-VOLT, 2-WATT)	271 - 2723	2	SCHALTTAFEL	279
		2	SCHALTTAFEL	282
ELEKTRISCHE ANLAGE UND STARTSYSTEM				
GLÜHKERZE	226 - 8770	4	GLÜHKERZE	222
GLÜHKERZE (12 V)	232 - 6662	4	GLÜHKERZE	221
*KEY-LOCK (FÜR UNTERBRECHER)	290 - 5533	1	MOTORVERDRAHTUNG	258
		1	MOTORVERDRAHTUNG	262
SCHLÜSSEL (ELEKTRISCHER HAUPTSCHALTER)	8H - 5306	1	TRENNSCHALTER	244
SCHUTZSCHALTER (10 A)	274 - 1239	1	INSTRUMENTEN- UND ZÜNDVERDRAHTUNG	265
		1	INSTRUMENTEN- UND ZÜNDVERDRAHTUNG	267
		1	MOTORVERDRAHTUNG	258
		1	MOTORVERDRAHTUNG	262
SCHUTZSCHALTER (80 A)	274 - 1240	1	INSTRUMENTEN- UND ZÜNDVERDRAHTUNG	265
		1	INSTRUMENTEN- UND ZÜNDVERDRAHTUNG	267
		1	MOTORVERDRAHTUNG	258
		1	MOTORVERDRAHTUNG	262
SICHERUNG (RÜCKSTELLKNOPF) (*6.5-AMPERE)	215 - 1262	3	TAFELVERDRAHTUNG	269
		3	TAFELVERDRAHTUNG	270
SICHERUNG (5 A)	274 - 1237	1	INSTRUMENTEN- UND ZÜNDVERDRAHTUNG	265
		1	INSTRUMENTEN- UND ZÜNDVERDRAHTUNG	267
		1	MOTORVERDRAHTUNG	258
		1	MOTORVERDRAHTUNG	262
KRAFTSTOFFSYSTEM				
ABLASSSTOPFEN (KRAFTSTOFFFILTER)	205 - 3041	1	KRAFTSTOFFFILTER UND LEITUNGEN	170
		1	KRAFTSTOFFFILTER UND LEITUNGEN	172
KRAFTSTOFFFILTER	250 - 6527	1	KRAFTSTOFFFILTER UND LEITUNGEN	170
		1	KRAFTSTOFFFILTER UND LEITUNGEN	172
	287 - 6052	2	KRAFTSTOFFFILTER	174

* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
KÜHLSYSTEM				
*CONNECTION AS (*INCLUDES WATER TEMP REGULATOR)	254 - 2268	1	KÜHLWASSERANSCHLUSS	90
DRUCKKAPPE (7 PSI) (AUSGLEICHSTANK)	230 - 5119	1	AUSGLEICHSBEHÄLTER	133
		1	KÜHLMITTELBEHÄLTER	129
		1	KÜHLMITTELBEHÄLTER	131
KEILRIEMEN (GEBLÄSE) (*INCLUDES ONE BELT)	269 - 9117	1	RIEMEN	88
WASSERTEMPERATURREGLER	293 - 0747	1	KÜHLWASSERLEITUNGEN	124
LUFTANSAUG- UND ABGASSYSTEM				
ENTLÜFTERFILTER (KURBELGEHÄUSE, GESCHLOSSENER KREISLAUF)	229 - 3555	1	LUFTREINIGER	141
LUFTFILTER (HAUPTELEMENT)	110 - 6326	1	LUFTREINIGER	139
	233 - 5182	1	LUFTREINIGER	138
LUFTFILTER (HILFSELEMENT)	110 - 6331	1	LUFTREINIGER	139
	233 - 5184	1	LUFTREINIGER	138
LUFTFILTERELEMENT (HAUPTELEMENT)	123 - 2367	1	LUFTREINIGER	140
LUFTFILTERELEMENT (HILFSELEMENT)	123 - 2368	1	LUFTREINIGER	140
O-RING-DICHTUNG (KURBELGEHÄUSEENTLÜFTER)	262 - 1046	1	LUFTREINIGER	141
SCHLAUCHLEITUNG (*BREATHER TURBO)	264 - 8909	1	LUFTREINIGER	141
SCHLAUCHLEITUNG (*CRANKCASE BREATHER UPPER)	264 - 8924	1	LUFTREINIGER	141
SCHLAUCHLEITUNG (*100-CM) (*CRANKCASE BREATHER LOWER)	268 - 6427		LUFTREINIGER	141
MOTOR (GRUNDAUSFÜHRUNG)				
ABLASSSTOPFEN (MOTORÖL)	7C - 0351	2	ÖLWANNE	62
		2	ÖLWANNE	64
DICHTUNG (VENTILDECKEL)	225 - 6451	1	VENTILDECKEL	28
		1	VENTILDECKEL	30
		1	VENTILDECKEL	32
		1	VENTILDECKEL	34
FEDER (KURBELGEHÄUSE - ENTLÜFTERSCHLAUCH)	162 - 1565	1	VENTILDECKEL	28
		1	VENTILDECKEL	30
KAPPE (MOTORÖLFÜLLUNG)	130 - 9888	1	VENTILDECKEL	28
		1	VENTILDECKEL	30
	136 - 3608	1	VENTILDECKEL	28
		1	VENTILDECKEL	30
		1	VENTILDECKEL	32
		1	VENTILDECKEL	34
SCHLAUCHLEITUNG (KURBELGEHÄUSEENTLÜFTER)	198 - 8645	1	VENTILDECKEL	28
		1	VENTILDECKEL	30

* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

WARTUNGSTEILE

BESCHREIBUNG	ERSATZTEIL- NUMMER	MENGE	VERWENDET IN	SEITE
SCHMIERSYSTEM				
ENTLÜFTERFILTER (KURBELGEHÄUSE, GESCHLOSSENER KREISLAUF)	229-3555	1	ENTLÜFTER	80
		1	ENTLÜFTER	81
FILTER (MOTORÖL)	081-4661	2	ÖLFILTER	84
O-RING-DICHTUNG (KURBELGEHÄUSEENTLÜFTER)	262-1046	1	ENTLÜFTER	80
		1	ENTLÜFTER	81
ÖLFILTER	7W-2326	1	ÖLFILTER	83
SCHLAUCHLEITUNG (*CRANKCASE BREATHER UPPER)	292-8532	1	ENTLÜFTER	81
SCHLAUCHLEITUNG (KURBELGEHÄUSEENTLÜFTER)	292-8530	1	ENTLÜFTER	81
SCHLAUCHLEITUNG (*100-CM) (*CRANKCASE BREATHER LOWER)	268-6427		ENTLÜFTER	81

* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

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* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

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* ÜBERSETZUNG ZUM ZEITPUNKT DER DRUCKLEGUNG NICHT VORHANDEN

MEMORANDA

ENGINE ARRANGEMENT

267-3299 ENGINE AR-COMPLETE

S/N: S1M1-UP

118 BRAKE KW (158 BHP) AT 1800 RPM

PART OF 290-9639 GENERATOR AR
AN ATTACHMENT

SMCS-1000

i02510254

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	265-7802	1	AFTERCOOLER GP						136
Y	264-8940	1	AIR CLEANER GP						141
Y	268-6276	1	AIR CLEANER GP						143
Y	267-2529	1	DRAIN GP-OIL						82
Y	269-5153	1	ELBOW GP-EXHAUST						148
Y	286-2370	1	ENGINE AR-PRIMARY						14
Y	269-9110	1	LIFTING GP-GENERATOR						311
Y	268-4268	1	MANIFOLD GP-EXHAUST						157
Y	268-7665	1	MOUNTING GP-AIR CLEANER						159
Y	270-3880	1	SENSOR GP-SPEED						238
Y	270-0340	1	SHIELD GP-EXHAUST						162
Y	268-5362	1	TURBOCHARGER GP						166

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

267-3300 ENGINE AR-COMPLETE

S/N: S1M1-UP

103 BRAKE KW (138 BHP) AT 1500 RPM

PART OF 284-5273 GENERATOR AR

AN ATTACHMENT

SMCS-1000

i02318772

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	265-7802	1	AFTERCOOLER GP						136
Y	264-8940	1	AIR CLEANER GP						141
Y	268-6276	1	AIR CLEANER GP						143
Y	267-2529	1	DRAIN GP-OIL						82
Y	269-5153	1	ELBOW GP-EXHAUST						148
Y	272-2837	1	ENGINE AR-PRIMARY						9
Y	269-9110	1	LIFTING GP-GENERATOR						311
Y	268-4268	1	MANIFOLD GP-EXHAUST						157
Y	268-7665	1	MOUNTING GP-AIR CLEANER						159
Y	270-3880	1	SENSOR GP-SPEED						238
Y	270-0340	1	SHIELD GP-EXHAUST						162
Y	268-5362	1	TURBOCHARGER GP						166

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

267-3301 ENGINE AR-COMPLETE

S/N: S1M1-UP

94 BKW (126 BHP) AT 1800 RPM

PART OF 284-5274 GENERATOR AR
AN ATTACHMENT

SMCS - 1000

i02317819

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	265-7802	1	AFTERCOOLER GP						136
Y	264-8940	1	AIR CLEANER GP						141
Y	268-6276	1	AIR CLEANER GP						143
Y	267-2529	1	DRAIN GP-OIL						82
Y	269-5153	1	ELBOW GP-EXHAUST						148
Y	272-2839	1	ENGINE AR-PRIMARY						10
Y	269-9110	1	LIFTING GP-GENERATOR						311
Y	268-4268	1	MANIFOLD GP-EXHAUST						157
Y	268-7665	1	MOUNTING GP-AIR CLEANER						159
Y	270-3880	1	SENSOR GP-SPEED						238
Y	270-0340	1	SHIELD GP-EXHAUST						162
Y	268-5362	1	TURBOCHARGER GP						166

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

267-3302 ENGINE AR-COMPLETE

S/N: S1M1-UP

83 BRAKE KW (111 BHP) AT 1500 RPM

PART OF 284-5275 GENERATOR AR

AN ATTACHMENT

SMCS - 1000

i02318786

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	265-7802	1	AFTERCOOLER GP						136
Y	264-8940	1	AIR CLEANER GP						141
Y	268-6276	1	AIR CLEANER GP						143
Y	267-2529	1	DRAIN GP-OIL						82
Y	269-5153	1	ELBOW GP-EXHAUST						148
Y	272-2841	1	ENGINE AR-PRIMARY						11
Y	269-9110	1	LIFTING GP-GENERATOR						311
Y	268-4268	1	MANIFOLD GP-EXHAUST						157
Y	268-7665	1	MOUNTING GP-AIR CLEANER						159
Y	270-3880	1	SENSOR GP-SPEED						238
Y	270-0340	1	SHIELD GP-EXHAUST						162
Y	268-5362	1	TURBOCHARGER GP						166

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

267-3303 ENGINE AR-COMPLETE

S/N: S1M1-UP

71 BKW (95 BHP) AT 1800 RPM
PART OF 284-5272 GENERATOR AR
AN ATTACHMENT

SMCS - 1000

i02366896

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	269-3099	1	AIR CLEANER GP						144
Y	268-8625	1	BREATHER GP						80
Y	267-2529	1	DRAIN GP-OIL						82
Y	273-1454	1	ENGINE AR-PRIMARY						13
Y	269-3748	1	LIFTING GP-ENGINE						53
Y	263-4793	1	MANIFOLD GP-EXHAUST						156
Y	268-7665	1	MOUNTING GP-AIR CLEANER						159
Y	270-3880	1	SENSOR GP-SPEED						238
Y	273-3613	1	SHIELD GP-EXHAUST						163
Y	266-7090	1	TURBOCHARGER GP						164

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

267-3304 ENGINE AR-COMPLETE

S/N: S1M1-UP

62 BRAKE KW (83 BHP) AT 1500 RPM

PART OF 284-5271 GENERATOR AR

FOR USE WITH THE C4.4 TURBOCHARGED 1500 RPM MARINE GENSET PACKAGE
AN ATTACHMENT

SMCS-1000

i02366897

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	269-3099	1	AIR CLEANER GP						144
Y	268-8625	1	BREATHER GP						80
Y	267-2529	1	DRAIN GP-OIL						82
Y	273-1454	1	ENGINE AR-PRIMARY						13
Y	269-3748	1	LIFTING GP-ENGINE						53
Y	263-4793	1	MANIFOLD GP-EXHAUST						156
Y	268-7665	1	MOUNTING GP-AIR CLEANER						159
Y	270-3880	1	SENSOR GP-SPEED						238
Y	273-3613	1	SHIELD GP-EXHAUST						163
Y	266-7090	1	TURBOCHARGER GP						164

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

267-3305 ENGINE AR-COMPLETE

S/N: L1K1-UP

54 BRAKE KW (72 BHP) AT 1800 RPM

PART OF 284-5269 GENERAL AR-GENERATOR
AN ATTACHMENT

SMCS - 1000

i02366898

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	265-6528	1	AIR CLEANER GP						142
Y	267-2529	1	DRAIN GP-OIL						82
Y	263-5805	1	ELBOW GP-EXHAUST						147
Y	273-0872	1	ENGINE AR-PRIMARY						12
Y	269-3748	1	LIFTING GP-ENGINE						53
Y	263-4793	1	MANIFOLD GP-EXHAUST						156
Y	270-3880	1	SENSOR GP-SPEED						238
Y	269-3749	1	SHIELD GP-EXHAUST						161
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

267-3307 ENGINE AR-COMPLETE

S/N: L1K1-UP

44 BRAKE KW (59 BHP) AT 1500 RPM

PART OF 284-5268 GENERAL AR-GENERATOR
AN ATTACHMENT

SMCS-1000

i02366899

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	265-6528	1	AIR CLEANER GP						142
Y	267-2529	1	DRAIN GP-OIL						82
Y	263-5805	1	ELBOW GP-EXHAUST						147
Y	273-0872	1	ENGINE AR-PRIMARY						12
Y	269-3748	1	LIFTING GP-ENGINE						53
Y	263-4793	1	MANIFOLD GP-EXHAUST						156
Y	270-3880	1	SENSOR GP-SPEED						238
Y	269-3749	1	SHIELD GP-EXHAUST						161
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

272-2837 ENGINE AR-PRIMARY

S/N: J1Z1-UP
AN ATTACHMENT

SMCS - 1000

i02576105

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	232-7528	1	CAMSHAFT GP						19
Y	230-8086	1	CONNECTION GP-WATER						90
Y	238-2799	1	COOLER GP-FLTR BASE & ENG OIL						94
Y	272-2230	1	COVER GP-CYLINDER HEAD						23
Y	230-9196	1	COVER GP-FRONT HOUSING						27
Y	272-2228	1	COVER GP-VALVE MECHANISM						28
Y	232-7439	1	CRANKSHAFT GP						36
Y	232-7606	1	CYLINDER BLOCK GP						42
Y	232-7524	1	CYLINDER HEAD GP						45
Y	272-2229	1	FILTER GP-ENGINE OIL						83
Y	232-6661	1	GLOW PLUG GP						221
Y	232-6179	1	HOUSING GP-FRONT						50
Y	233-7432	1	LIFTING GP-ENGINE						52
Y	247-4885	1	LINES GP-FUEL FILTER						183
Y	272-2231	1	MOUNTING GP-ENGINE						57
Y	272-2224	1	PAN GP-OIL						62
Y	232-7442	1	PISTON & ROD GP						66
Y	225-4317	1	PLUG GP-ENGINE						70
Y	232-6204	1	PLUG GP-ENGINE						71
Y	253-2479	1	PLUG GP-ENGINE						72
Y	230-7352	1	PULLEY GP-CRANKSHAFT						74
Y	230-7578	1	PUMP GP-ENGINE OIL						87
Y	272-2222	1	PUMP GP-FUEL INJECTION						185
Y	230-7355	1	PUMP GP-WATER						125
Y	232-7526	1	VALVE MECHANISM GP						78
	268-0867	1	CYLINDER BLOCK GP-SHORT						
			AVAILABLE GASKET KIT(S):						
	277-5156	1	KIT-GASKET (TOP)						
	272-2232	1	KIT-GASKET (BOTTOM)						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

272-2839 ENGINE AR-PRIMARY

S/N: J1Z1-UP
AN ATTACHMENT

SMCS - 1000

i02576103

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	232-7528	1	CAMSHAFT GP						19
Y	230-8086	1	CONNECTION GP-WATER						90
Y	238-2799	1	COOLER GP-FLTR BASE & ENG OIL						94
Y	272-2230	1	COVER GP-CYLINDER HEAD						23
Y	230-9196	1	COVER GP-FRONT HOUSING						27
Y	272-2228	1	COVER GP-VALVE MECHANISM						28
Y	232-7439	1	CRANKSHAFT GP						36
Y	232-7606	1	CYLINDER BLOCK GP						42
Y	232-7524	1	CYLINDER HEAD GP						45
Y	272-2229	1	FILTER GP-ENGINE OIL						83
Y	232-6661	1	GLOW PLUG GP						221
Y	232-6179	1	HOUSING GP-FRONT						50
Y	233-7432	1	LIFTING GP-ENGINE						52
Y	247-4885	1	LINES GP-FUEL FILTER						183
Y	272-2231	1	MOUNTING GP-ENGINE						57
Y	272-2224	1	PAN GP-OIL						62
Y	232-7442	1	PISTON & ROD GP						66
Y	225-4317	1	PLUG GP-ENGINE						70
Y	232-6204	1	PLUG GP-ENGINE						71
Y	253-2479	1	PLUG GP-ENGINE						72
Y	230-7352	1	PULLEY GP-CRANKSHAFT						74
Y	230-7578	1	PUMP GP-ENGINE OIL						87
Y	272-2799	1	PUMP GP-FUEL INJECTION						193
Y	230-7355	1	PUMP GP-WATER						125
Y	232-7526	1	VALVE MECHANISM GP						78
	268-0867	1	CYLINDER BLOCK GP-SHORT						
			AVAILABLE GASKET KIT(S):						
	277-5156	1	KIT-GASKET (TOP)						
	272-2232	1	KIT-GASKET (BOTTOM)						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

272-2841 ENGINE AR-PRIMARY

S/N: J1Z1-UP
AN ATTACHMENT

SMCS - 1000

i02576109

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	232-7528	1	CAMSHAFT GP						19
Y	230-8086	1	CONNECTION GP-WATER						90
Y	238-2799	1	COOLER GP-FLTR BASE & ENG OIL						94
Y	272-2230	1	COVER GP-CYLINDER HEAD						23
Y	230-9196	1	COVER GP-FRONT HOUSING						27
Y	272-2228	1	COVER GP-VALVE MECHANISM						28
Y	232-7439	1	CRANKSHAFT GP						36
Y	232-7606	1	CYLINDER BLOCK GP						42
Y	232-7524	1	CYLINDER HEAD GP						45
Y	272-2229	1	FILTER GP-ENGINE OIL						83
Y	232-6661	1	GLOW PLUG GP						221
Y	232-6179	1	HOUSING GP-FRONT						50
Y	233-7432	1	LIFTING GP-ENGINE						52
Y	247-4885	1	LINES GP-FUEL FILTER						183
Y	272-2231	1	MOUNTING GP-ENGINE						57
Y	272-2224	1	PAN GP-OIL						62
Y	232-7442	1	PISTON & ROD GP						66
Y	225-4317	1	PLUG GP-ENGINE						70
Y	232-6204	1	PLUG GP-ENGINE						71
Y	253-2479	1	PLUG GP-ENGINE						72
Y	230-7352	1	PULLEY GP-CRANKSHAFT						74
Y	230-7578	1	PUMP GP-ENGINE OIL						87
Y	272-2291	1	PUMP GP-FUEL INJECTION						189
Y	230-7355	1	PUMP GP-WATER						125
Y	232-7526	1	VALVE MECHANISM GP						78
	268-0867	1	CYLINDER BLOCK GP-SHORT						
			AVAILABLE GASKET KIT(S):						
	277-5156	1	KIT-GASKET (TOP)						
	272-2232	1	KIT-GASKET (BOTTOM)						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

273-0872 ENGINE AR-PRIMARY

S/N: D1K1-UP
AN ATTACHMENT

SMCS - 1000

i02576111

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	233-7236	1	CAMSHAFT GP						20
Y	245-4665	1	CONNECTION GP-HEATER						89
Y	230-8086	1	CONNECTION GP-WATER						90
Y	253-2472	1	COOLER GP-FLTR BASE & ENG OIL						95
Y	230-9196	1	COVER GP-FRONT HOUSING						27
Y	273-0871	1	COVER GP-VALVE MECHANISM						32
Y	233-7027	1	CRANKSHAFT GP						38
Y	233-7007	1	CYLINDER BLOCK GP						43
Y	233-7234	1	CYLINDER HEAD GP						46
Y	233-7491	1	ELBOW GP-AIR INLET						146
Y	272-2229	1	FILTER GP-ENGINE OIL						83
Y	232-6661	1	GLOW PLUG GP						221
Y	232-6179	1	HOUSING GP-FRONT						50
Y	233-7432	1	LIFTING GP-ENGINE						52
Y	267-7069	1	LINES GP-FUEL						180
Y	272-2231	1	MOUNTING GP-ENGINE						57
Y	272-2224	1	PAN GP-OIL						62
Y	233-7233	1	PISTON & ROD GP						68
Y	253-2479	1	PLUG GP-ENGINE						72
Y	230-7352	1	PULLEY GP-CRANKSHAFT						74
Y	230-7578	1	PUMP GP-ENGINE OIL						87
Y	273-0869	1	PUMP GP-FUEL INJECTION						196
Y	230-7355	1	PUMP GP-WATER						125
Y	233-7235	1	VALVE MECHANISM GP						79
	267-5367	1	CYLINDER BLOCK GP-SHORT						
AVAILABLE GASKET KIT(S):									
	277-5156	1	KIT-GASKET (TOP)						
	272-0494	1	KIT-GASKET (BOTTOM)						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

273-1454 ENGINE AR-PRIMARY

S/N: J1Z1-UP
AN ATTACHMENT

SMCS-1000

i02358373

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	232-7528	1	CAMSHAFT GP						19
Y	230-8086	1	CONNECTION GP-WATER						90
Y	238-2799	1	COOLER GP-FLTR BASE & ENG OIL						94
Y	272-2230	1	COVER GP-CYLINDER HEAD						23
Y	230-9196	1	COVER GP-FRONT HOUSING						27
Y	272-2228	1	COVER GP-VALVE MECHANISM						28
Y	232-7439	1	CRANKSHAFT GP						36
Y	232-7606	1	CYLINDER BLOCK GP						42
Y	232-7524	1	CYLINDER HEAD GP						45
Y	272-2229	1	FILTER GP-ENGINE OIL						83
Y	232-6661	1	GLOW PLUG GP						221
Y	232-6179	1	HOUSING GP-FRONT						50
Y	233-7432	1	LIFTING GP-ENGINE						52
Y	247-4885	1	LINES GP-FUEL FILTER						183
Y	272-2231	1	MOUNTING GP-ENGINE						57
Y	272-2224	1	PAN GP-OIL						62
Y	232-7442	1	PISTON & ROD GP						66
Y	225-4317	1	PLUG GP-ENGINE						70
Y	232-6204	1	PLUG GP-ENGINE						71
Y	253-2479	1	PLUG GP-ENGINE						72
Y	230-7352	1	PULLEY GP-CRANKSHAFT						74
Y	230-7578	1	PUMP GP-ENGINE OIL						87
Y	273-1407	1	PUMP GP-FUEL INJECTION						199
Y	230-7355	1	PUMP GP-WATER						125
Y	232-7526	1	VALVE MECHANISM GP						78
	268-0867	1	CYLINDER BLOCK GP-SHORT						
			AVAILABLE GASKET KIT(S):						
	239-9897	1	KIT-GASKET (TOP)						
	272-0494	1	KIT-GASKET (BOTTOM)						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

286-2370 ENGINE AR-PRIMARY

S/N: J1Z1-UP

118 BRAKE KW (158 BHP) AT 1800 RPM
AN ATTACHMENT

SMCS-1000

i02510261

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	232-7528	1	CAMSHAFT GP						19
Y	230-8086	1	CONNECTION GP-WATER						90
Y	238-2799	1	COOLER GP-FLTR BASE & ENG OIL						94
Y	272-2230	1	COVER GP-CYLINDER HEAD						23
Y	230-9196	1	COVER GP-FRONT HOUSING						27
Y	272-2228	1	COVER GP-VALVE MECHANISM						28
Y	232-7439	1	CRANKSHAFT GP						36
Y	232-7606	1	CYLINDER BLOCK GP						42
Y	232-7524	1	CYLINDER HEAD GP						45
Y	272-2229	1	FILTER GP-ENGINE OIL						83
Y	232-6661	1	GLOW PLUG GP						221
Y	232-6179	1	HOUSING GP-FRONT						50
Y	233-7432	1	LIFTING GP-ENGINE						52
Y	247-4885	1	LINES GP-FUEL FILTER						183
Y	272-2231	1	MOUNTING GP-ENGINE						57
Y	272-2224	1	PAN GP-OIL						62
Y	232-7442	1	PISTON & ROD GP						66
Y	225-4317	1	PLUG GP-ENGINE						70
Y	232-6204	1	PLUG GP-ENGINE						71
Y	253-2479	1	PLUG GP-ENGINE						72
Y	230-7352	1	PULLEY GP-CRANKSHAFT						74
Y	230-7578	1	PUMP GP-ENGINE OIL						87
Y	286-2365	1	PUMP GP-FUEL INJECTION						203
Y	230-7355	1	PUMP GP-WATER						125
Y	232-7526	1	VALVE MECHANISM GP						78
	274-4711	1	CYLINDER BLOCK GP-SHORT						

Y-SEPARATE ILLUSTRATION

ENGINE ARRANGEMENT

284-5268 GENERAL AR-GENERATOR

S/N: L1K1-UP

50-HZ

AN ATTACHMENT

SMCS-4450

i02519754

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0081	1	COVER GP-ENGINE LIFTING EYE						24
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3307	1	ENGINE AR-COMPLETE						8
Y	263-7105	1	GENERATOR GP						306
Y	266-5347	1	MOUNTING GP-ENGINE & GENERATOR						58
Y-SEPARATE ILLUSTRATION									

ENGINE ARRANGEMENT

284-5269 GENERAL AR-GENERATOR

S/N: L1K1-UP

60-HZ

AN ATTACHMENT

SMCS-4450

i02519755

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0081	1	COVER GP-ENGINE LIFTING EYE						24
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3305	1	ENGINE AR-COMPLETE						7
Y	263-7105	1	GENERATOR GP						306
Y	266-5347	1	MOUNTING GP-ENGINE & GENERATOR						58
Y-SEPARATE ILLUSTRATION									

BASIC ENGINE

263-5845 BARRING GP

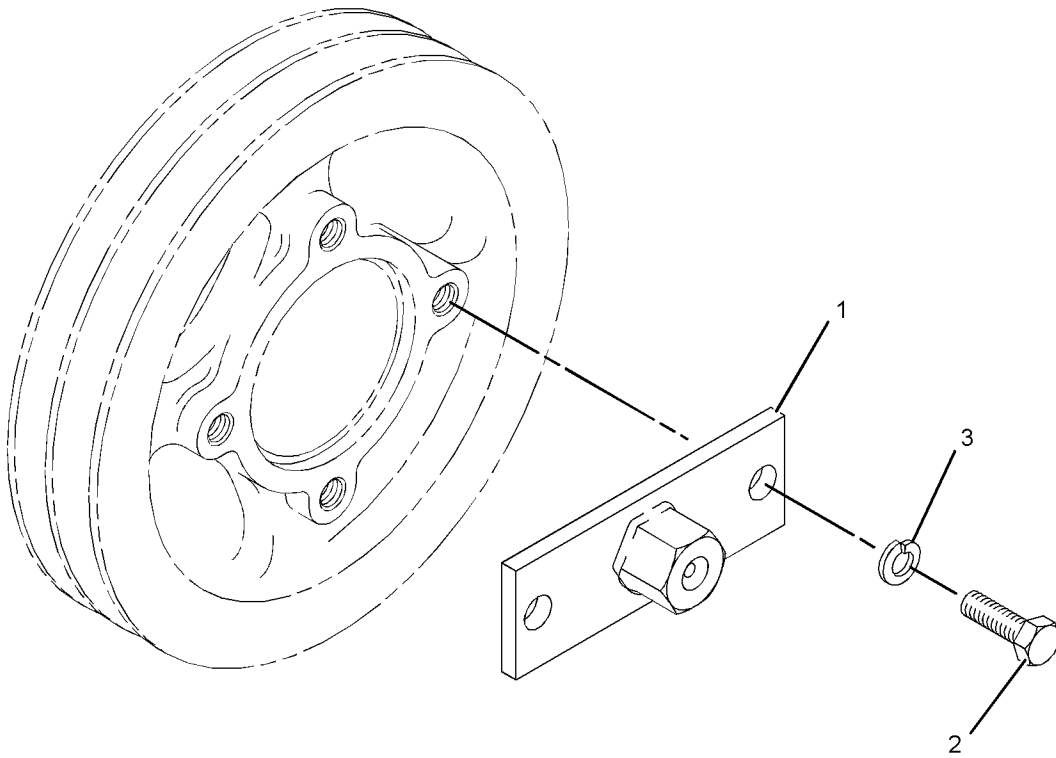
S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH POWER TAKE-OFF SHAFT
AN ATTACHMENT

SMCS-1235

i02304849

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-5844	1	ADAPTER AS (BARRING)						
	2	1	8T-9381	2	BOLT (7/16-20X25.4-MM)						
	3	1	3E-4988	2	LOCKWASHER						



GRAPHIC #1

<END>

g01155400

BASIC ENGINE

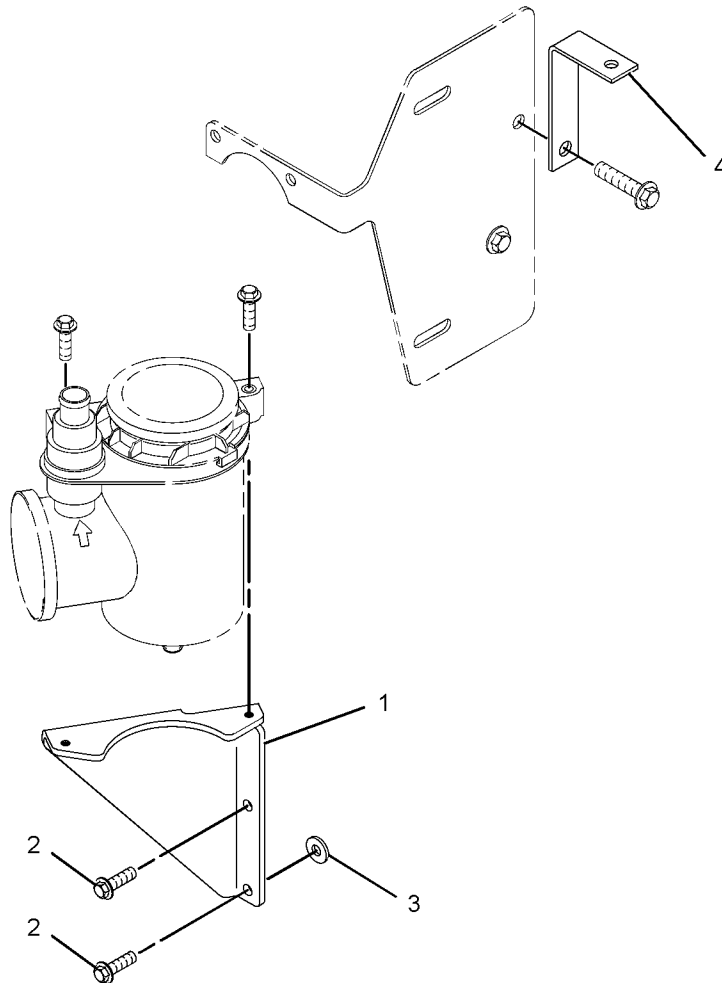
292-5280 BRACKET GP-MOUNTING-CRANKCASE BREATHER

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1317

i02540665

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	292-5278	1	BRACKET						
	2	1	156-6964	2	BOLT						
	3	1	245-4745	1	SPACER (36X76X12-MM THK)						
	4	1	292-5279	1	BRACKET						



GRAPHIC #1

<END>

g01274046

BASIC ENGINE

232 - 7528 CAMSHAFT GP

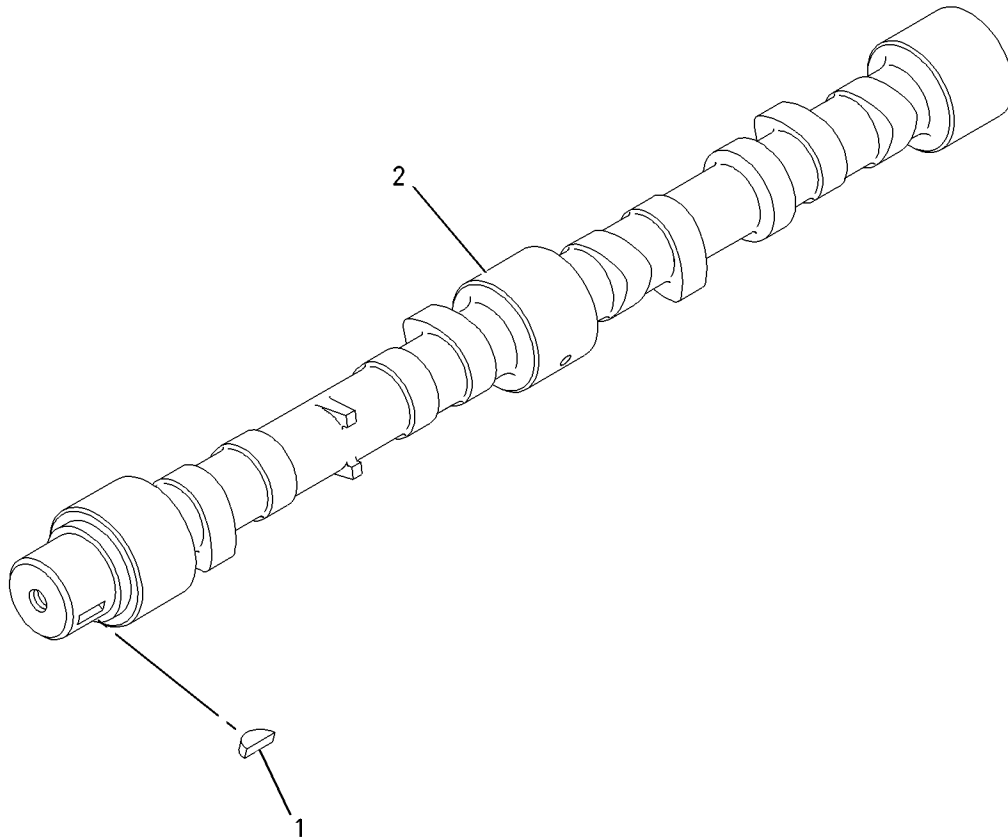
S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1210

i02317983

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1B-8736	1	KEY-WOODRUFF						
	2	1	225-5967	1	CAMSHAFT						



GRAPHIC #1

<END>

g00911297

BASIC ENGINE

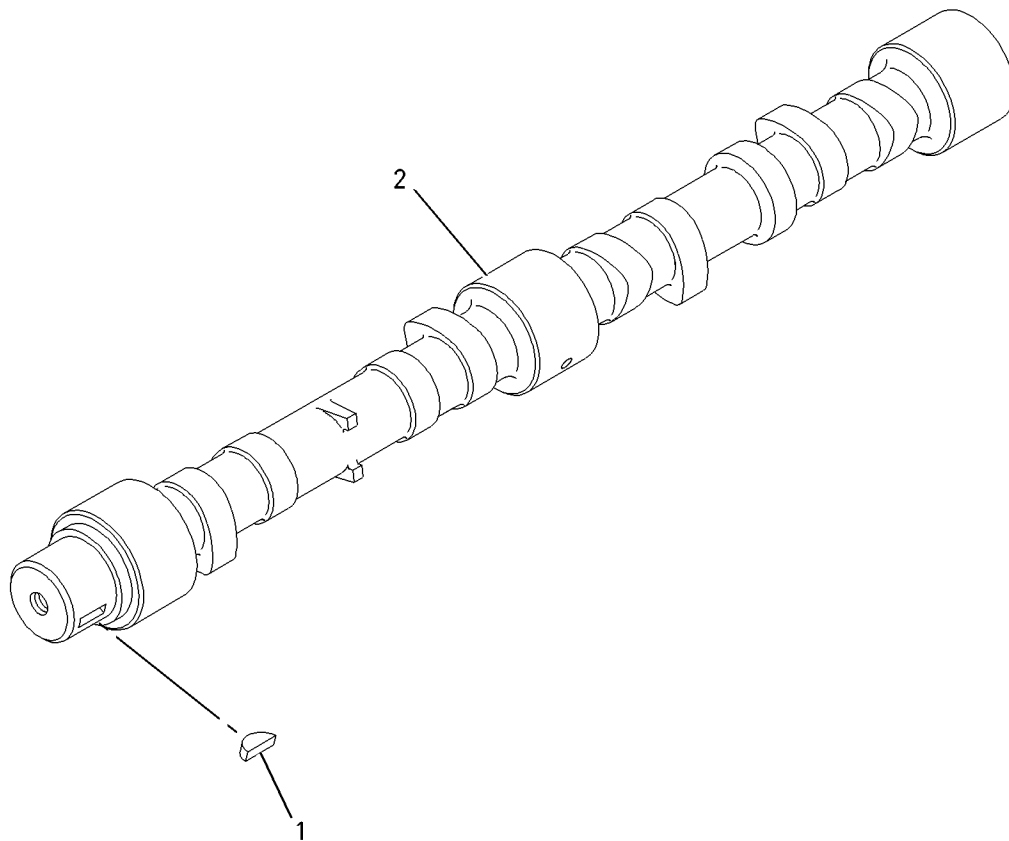
233-7236 CAMSHAFT GP

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1210

i02317452

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1B-8736	1	KEY-WOODRUFF						
	2	1	233-7244	1	CAMSHAFT						



GRAPHIC #1

<END>

g00911297

BASIC ENGINE

263-7929 COUPLING GP-GENERATOR

S/N: L1K1-UP; S1M1-UP

PART OF 284-5268, 284-5269 GENERAL AR-GENERATOR, 284-5271, 284-5272,
284-5273, 284-5274, 284-5275, 290-9639 GENERATOR AR

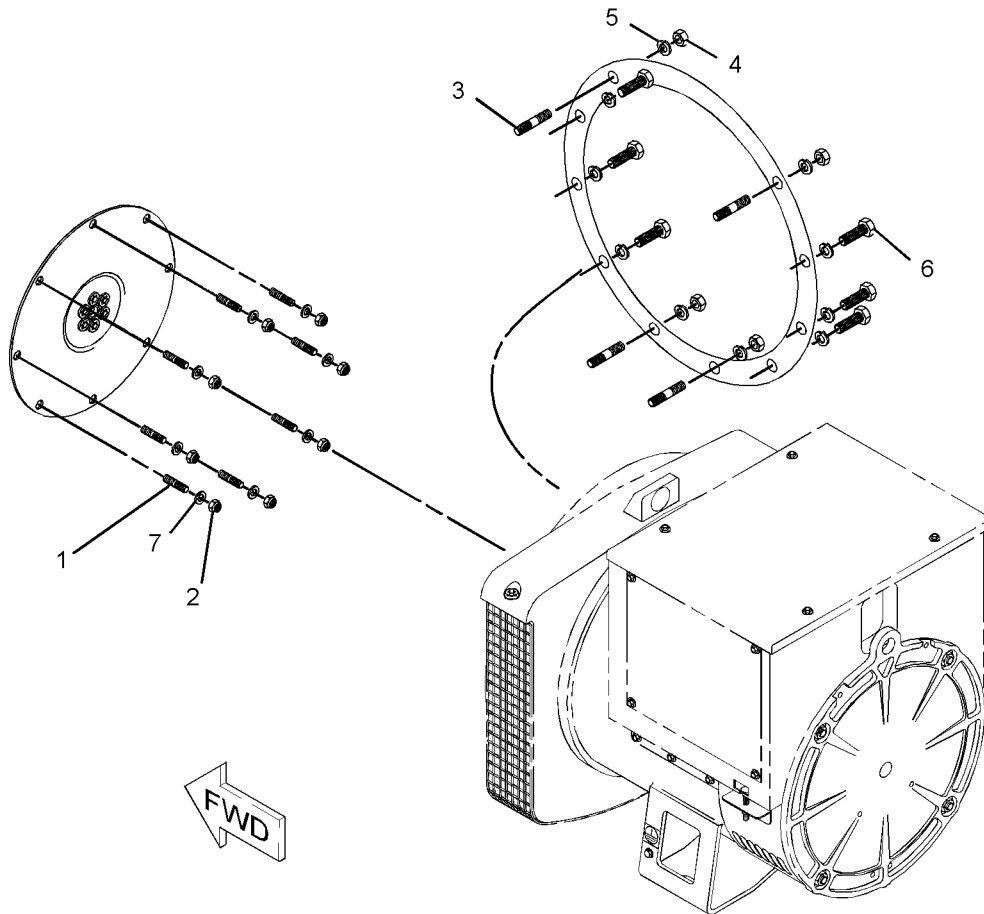
CANNOT BE USED WITH AFTER COOLER
AN ATTACHMENT

SMCS-4456

i02364980

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	033-8510	8	STUD						
	2	1	2F-8616	8	LOCKNUT (3/8-24-THD)						
	3	1	150-1262	4	STUD						
	4	1	196-7700	4	NUT (M10)						
	5	1	9F-4976	10	LOCKWASHER						
M	6	1	8T-4196	6	BOLT (M10X1.5X35-MM)						
	7	1	196-0346	8	WASHER (3/8 FLAT)						

M-METRIC PART



GRAPHIC #1

<END>

g01148790

BASIC ENGINE

277-6150 COUPLING GP-GENERATOR

S/N: S1M1-UP

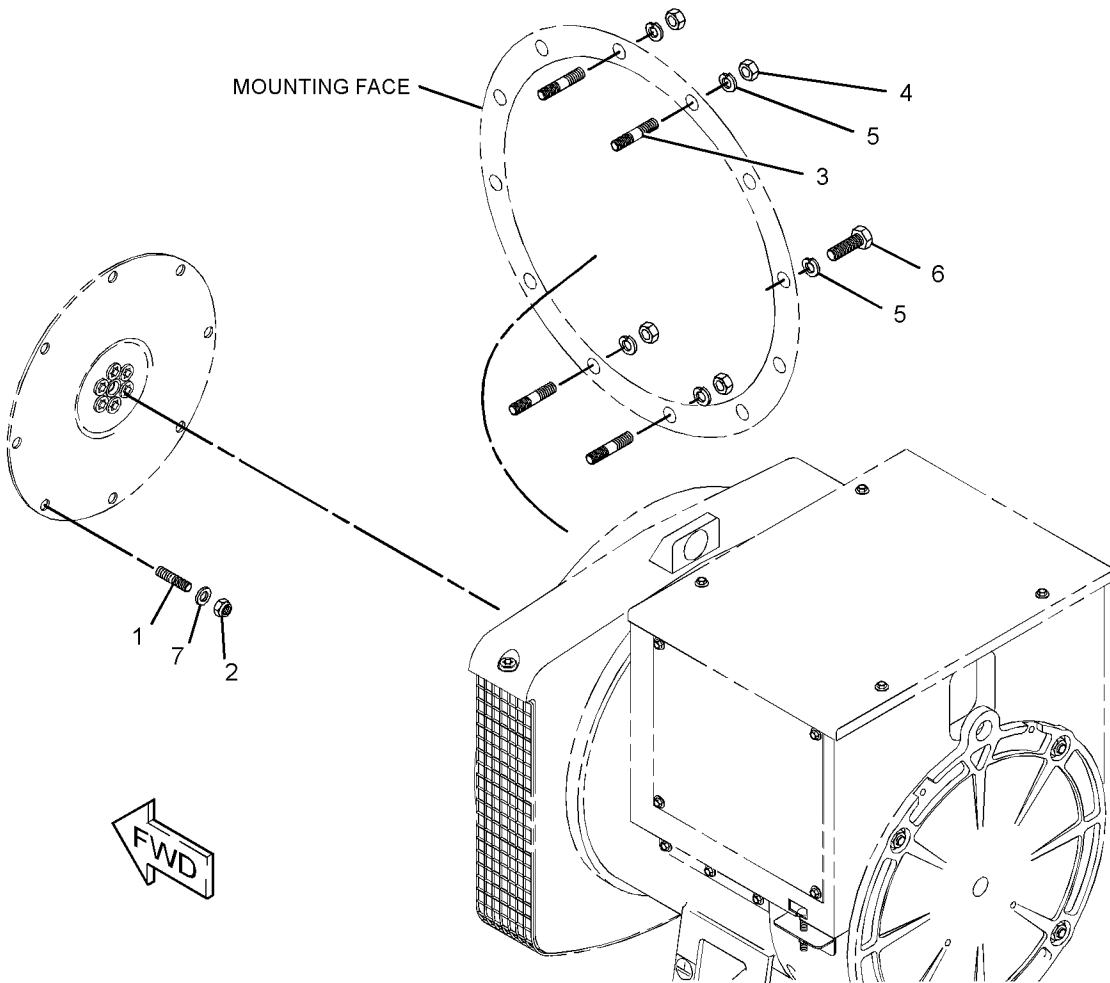
FOR USE WITH THE C4.4 TURBOCHARGED AFTERCOOLED MARINE GENSET PACKAGE. CANNOT BE USED WITH THE C4.4 NATURALLY ASPIRATED AND TURBOCHARGED MARINE GENSET PACKAGES
AN ATTACHMENT

SMCS-4456

i02373078

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	033-8510	8	STUD						
	2	1	2F-8616	8	LOCKNUT (3/8-24-THD)						
	3	1	150-1262	4	STUD						
	4	1	196-7700	4	NUT (M10)						
	5	1	9F-4976	12	LOCKWASHER						
M	6	1	8T-4196	8	BOLT (M10X1.5X35-MM)						
	7	1	196-0346	8	WASHER (3/8 FLAT)						

M-METRIC PART



GRAPHIC #1

<END>

g01192659

BASIC ENGINE

272-2230 COVER GP-CYLINDER HEAD

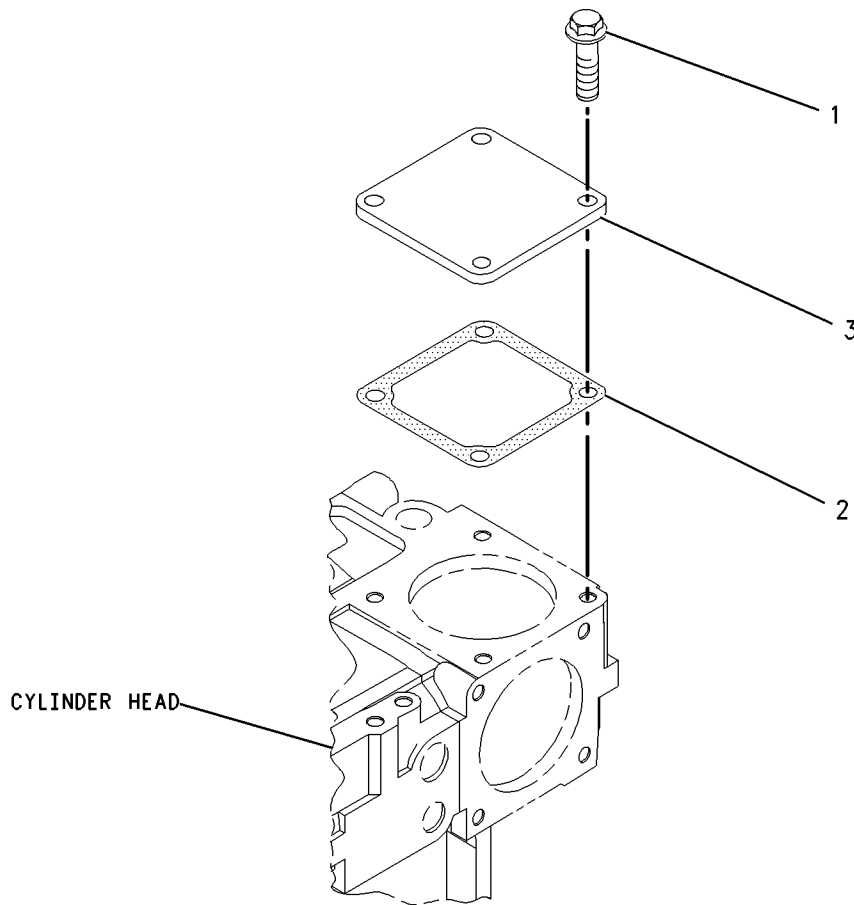
S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1100

i02317994

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0572	12	BOLT (M8X1.25X20-MM)						
	2	1	114-2579	3	GASKET						
	3	1	115-1162	3	PLATE						



GRAPHIC #1

<END>

g00986217

BASIC ENGINE

270-0081 COVER GP-ENGINE LIFTING EYE

S/N: L1K1-UP; S1M1-UP

PART OF 284-5268, 284-5269 GENERAL AR-GENERATOR, 284-5271, 284-5272
GENERATOR AR

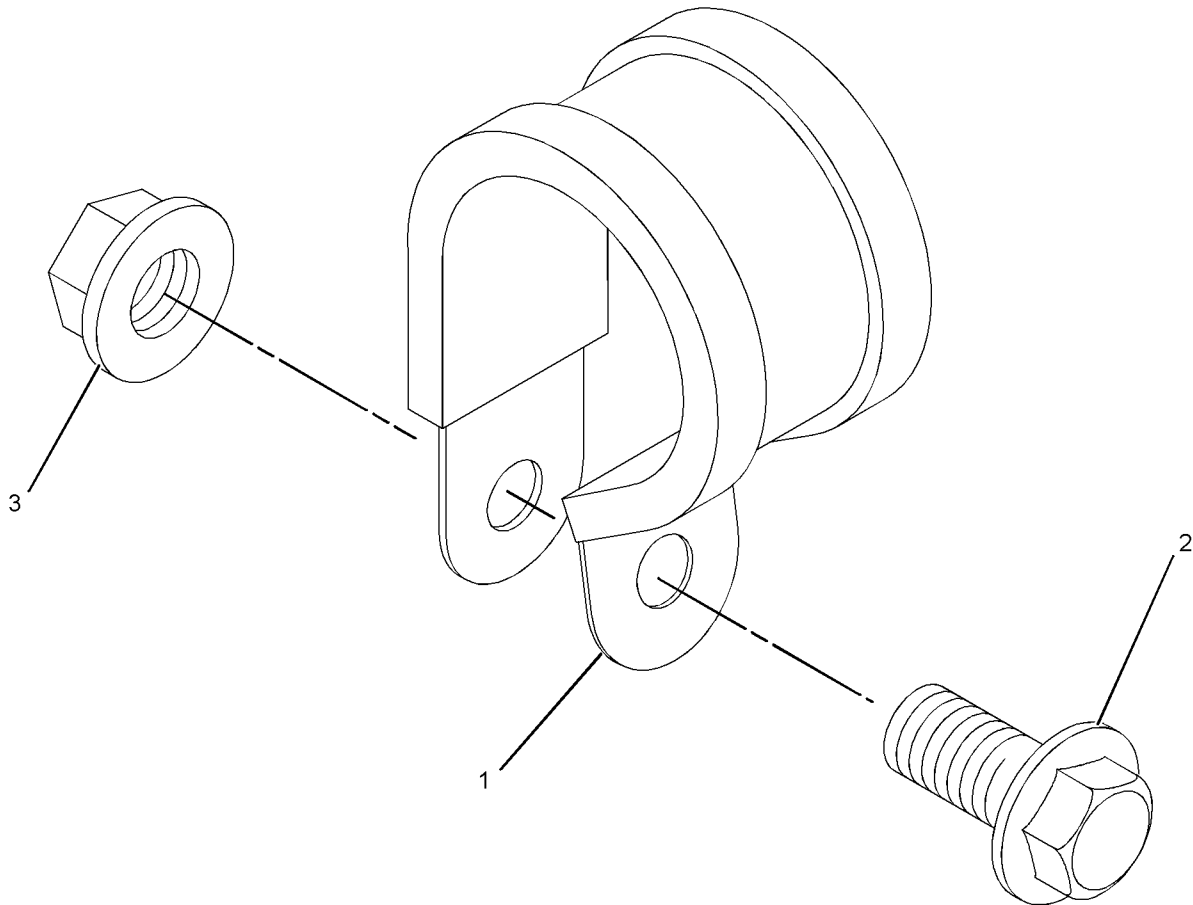
CANNOT BE USED WITH AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1122

i02291023

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	214-0699	1	CLIP						
M	2	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	3	1	8T-0389	1	LOCKNUT (M10X1.15-THD)						

M-METRIC PART



GRAPHIC #1

<END>

g01148593

BASIC ENGINE

270-0089 COVER GP-ENGINE LIFTING EYE

S/N: L1K1-UP; S1M1-UP

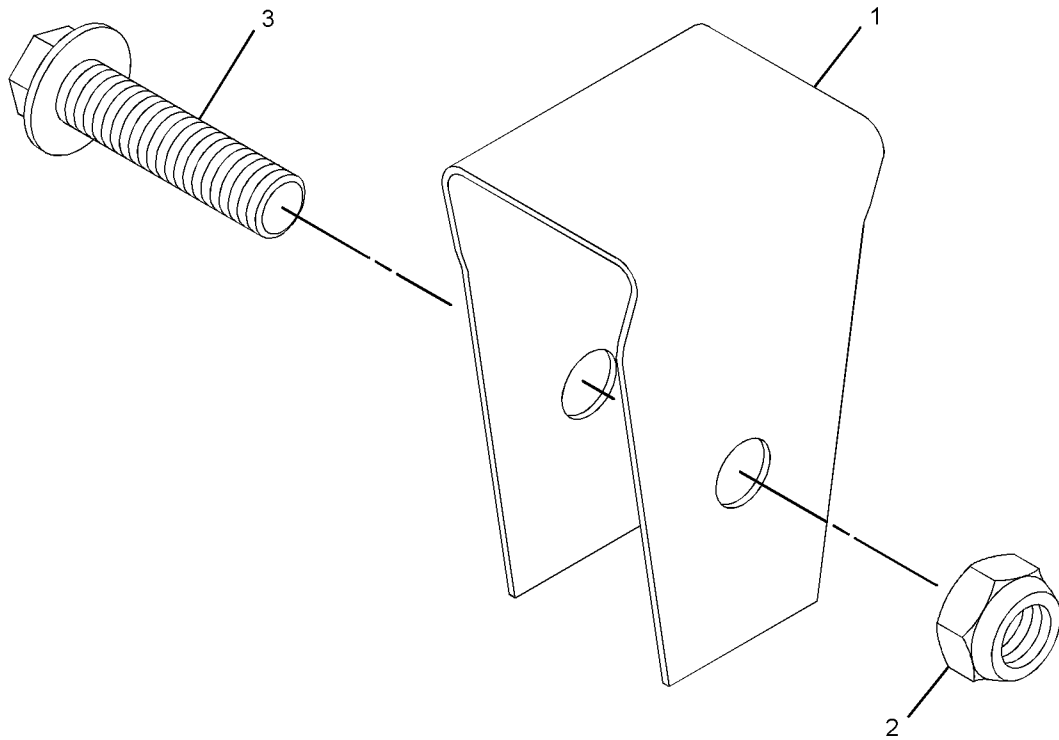
PART OF 284-5268, 284-5269 GENERAL AR-GENERATOR, 284-5271, 284-5272,
284-5273, 284-5274, 284-5275, 290-9639 GENERATOR AR
FOR USE WITH NATURALLY ASPIRATED, TURBOCHARGED, AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1122

i02291027

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	213-0982	1	COVER						
M	2	1	8T-0389	1	LOCKNUT (M10X1.5-THD)						
	3	1	111-0859	1	BOLT (M10X1.5X35-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01148366

BASIC ENGINE

270-1513 COVER GP-ENGINE LIFTING EYE

S/N: L1K1-UP; S1M1-UP

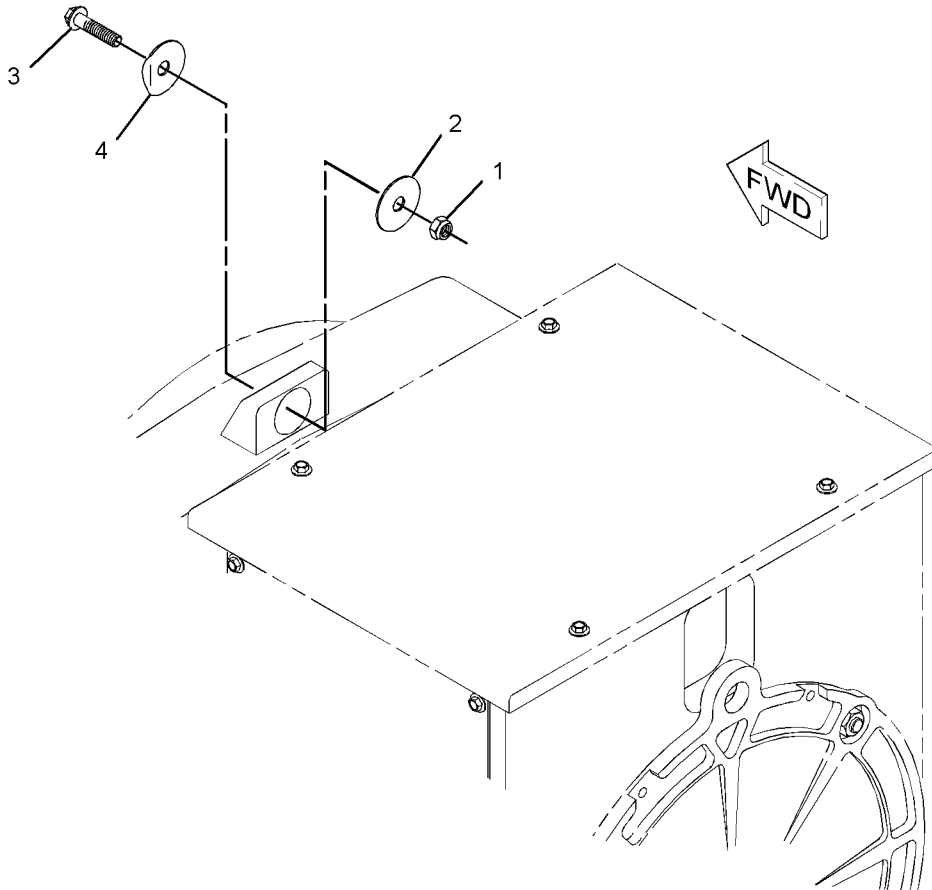
PART OF 284-5268, 284-5269 GENERAL AR-GENERATOR, 284-5271, 284-5272,
284-5273, 284-5274, 284-5275, 290-9639 GENERATOR AR
FOR USE WITH NATURALLY ASPIRATED, TURBOCHARGED, AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1122

i02291085

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	3T-0852	1	LOCKNUT (M8X1.25-THD)						
	2	1	7X-0602	1	WASHER-HARD (10X38X1.6-MM THK)						
	3	1	6I-1090	1	BOLT (M8X1.25X40-MM)						
	4	1	270-1512	1	WASHER						

M-METRIC PART



GRAPHIC #1

<END>

g01148782

BASIC ENGINE

230-9196 COVER GP-FRONT HOUSING

S/N: D1K1-UP; J1Z1-UP

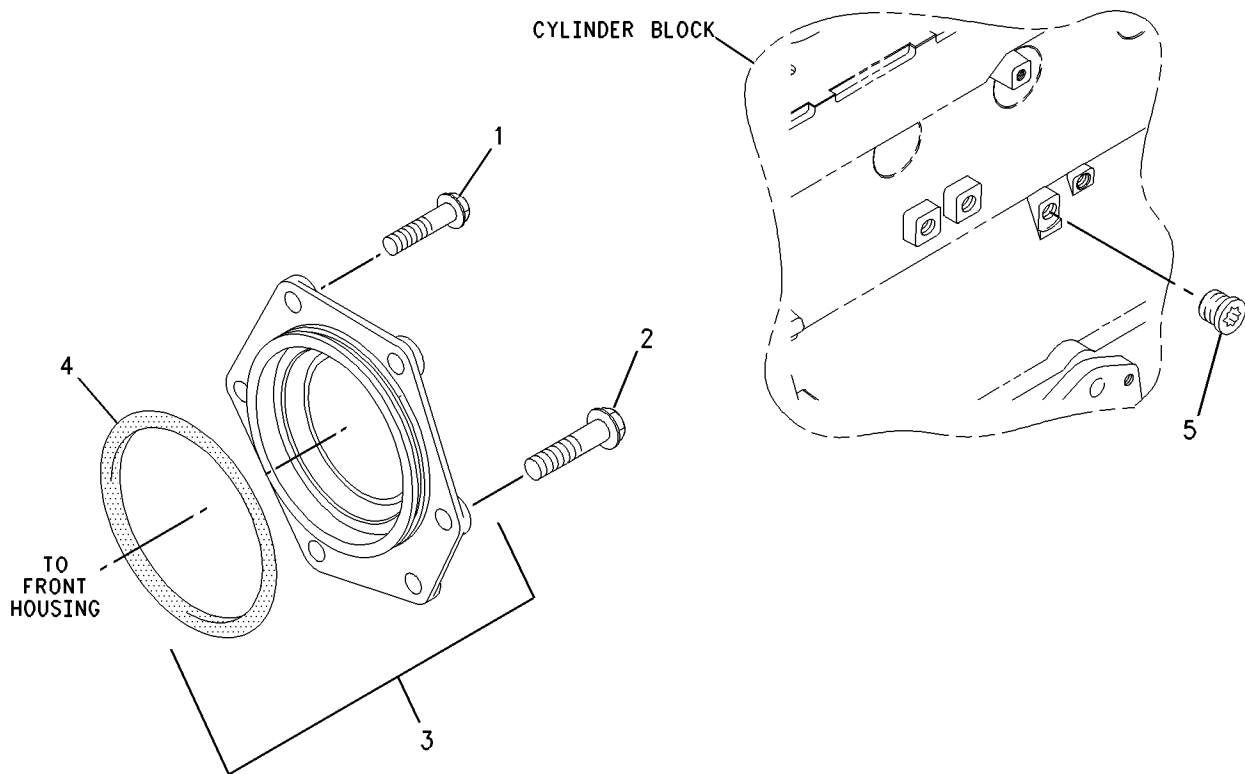
PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1151, 1166

i02317457

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	100-4830	1	BOLT (M10X1.5X20-MM)						
	2	1	111-8222	5	BOLT						
	3	1	209-5502	1	COVER AS (POWER TAKE-OFF)						
	4	1	209-5503	1	SEAL-COVER						
	5	1	231-0046	1	PLUG						

M-METRIC PART



GRAPHIC #1

<END>

g00954165

BASIC ENGINE

272-2228 COVER GP-VALVE MECHANISM

S/N: J1Z1-UP
PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT
TYPE 1

SMCS-1107

i02623606

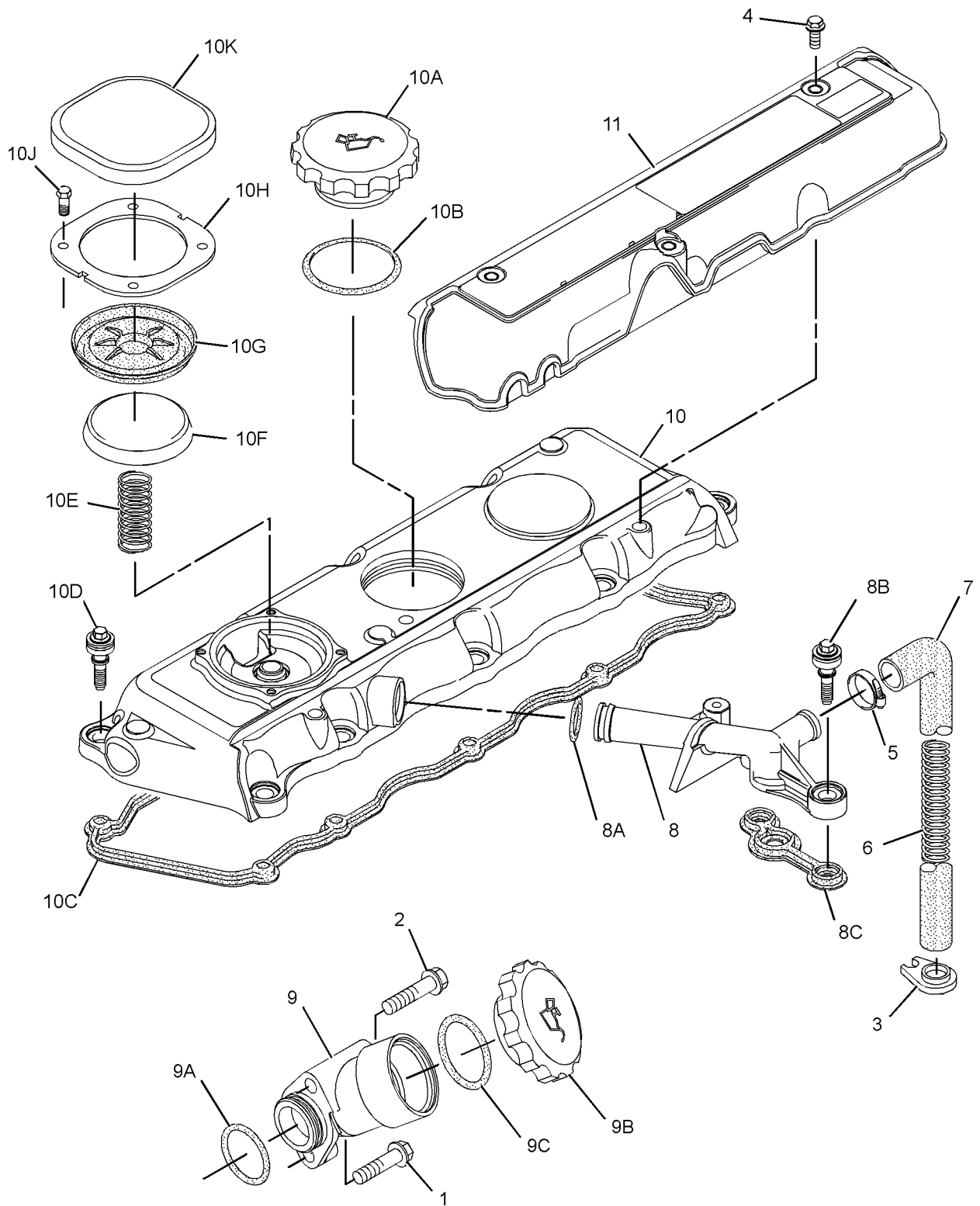
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0254	1	BOLT (M8X1.25X30-MM)						
	2	1	6I-4374	1	BOLT						
	3	1	7C-1281	1	BRACKET						
	4	1	6I-0846	3	BOLT (M6X1X14-MM)						
	5	1	5D-1026	1	CLAMP-HOSE						
	6	1	162-1565	1	SPRING (CRANKCASE BREATHER HOSE)						
	7	1	198-8645	1	HOSE (CRANKCASE BREATHER)						
	8	1	230-9144	1	CONNECTOR						
	8A	1	150-7732	1	SEAL-O-RING						
	8B	1	225-6455	2	BOLT						
	8C	1	225-6517	1	GASKET						
	9	1	230-9152	1	FILLER GP-ENGINE OIL						
	9A	1	6I-1201	1	SEAL-O-RING						
	9B	1	130-9888	1	CAP AS (ENGINE OIL FILLER)						
	9C	1	113-1504	1	SEAL-O-RING						
	10	1	236-8184	1	COVER GP-VALVE MECHANISM						
	10A	1	136-3608	1	CAP AS (ENGINE OIL FILLER)						
	10B	1	124-0506	1	SEAL						
	10C	1	225-6451	1	GASKET (VALVE COVER)						
	10D	1	225-6455	10	BOLT						
	10E	1	225-6456	1	SPRING						
	10F	1	225-6461	1	CAP (CRANKCASE BREATHER)						
	10G	1	225-6464	1	DIAPHRAGM (CRANKCASE PRESSURE CONTACTOR)						
	10H	1	225-6477	1	PLATE						
	10J	1	225-6478	4	SCREW-MACHINE						
	10K	1	225-6479	1	CAP						
	11	1	230-9127	1	COVER						

M-METRIC PART

BASIC ENGINE

272-2228 COVER GP-VALVE MECHANISM (contd.)

i02623606



GRAPHIC #1

<END>

g01157751

BASIC ENGINE

272-2228 COVER GP-VALVE MECHANISM

S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY

AN ATTACHMENT

TYPE 2

SMCS-1107

i02614877

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0254	1	BOLT (M8X1.25X30-MM)						
	2	1	6I-4374	1	BOLT						
	3	1	7C-1281	1	BRACKET						
	4	1	6I-0846	3	BOLT (M6X1X14-MM)						
	5	1	5D-1026	1	CLAMP-HOSE						
	6	1	162-1565	1	SPRING (CRANKCASE BREATHER HOSE)						
	7	1	198-8645	1	HOSE (CRANKCASE BREATHER)						
C	8	1	287-8573	1	PIPE-BREATHER						
	9	1	230-9152	1	FILLER GP-ENGINE OIL						
	9A	1	6I-1201	1	SEAL-O-RING						
	9B	1	130-9888	1	CAP AS (ENGINE OIL FILLER)						
	9C	1	113-1504	1	SEAL-O-RING						
C	10	1	247-7797	1	COVER GP-VALVE MECHANISM						
	10A	1	136-3608	1	CAP AS (ENGINE OIL FILLER)						
	10B	1	124-0506	1	SEAL						
	10C	1	225-6451	1	GASKET (VALVE COVER)						
	10D	1	225-6455	10	BOLT						
	10E	1	225-6456	1	SPRING						
	10F	1	225-6461	1	CAP (CRANKCASE BREATHER)						
	10G	1	225-6464	1	DIAPHRAGM (CRANKCASE PRESSURE CONTACTOR)						
	10H	1	225-6477	1	PLATE						
	10J	1	225-6478	4	SCREW-MACHINE						
	10K	1	225-6479	1	CAP						
	11	1	230-9127	1	COVER						
C	12	1	100-4838	2	BOLT (M6X20-MM)						

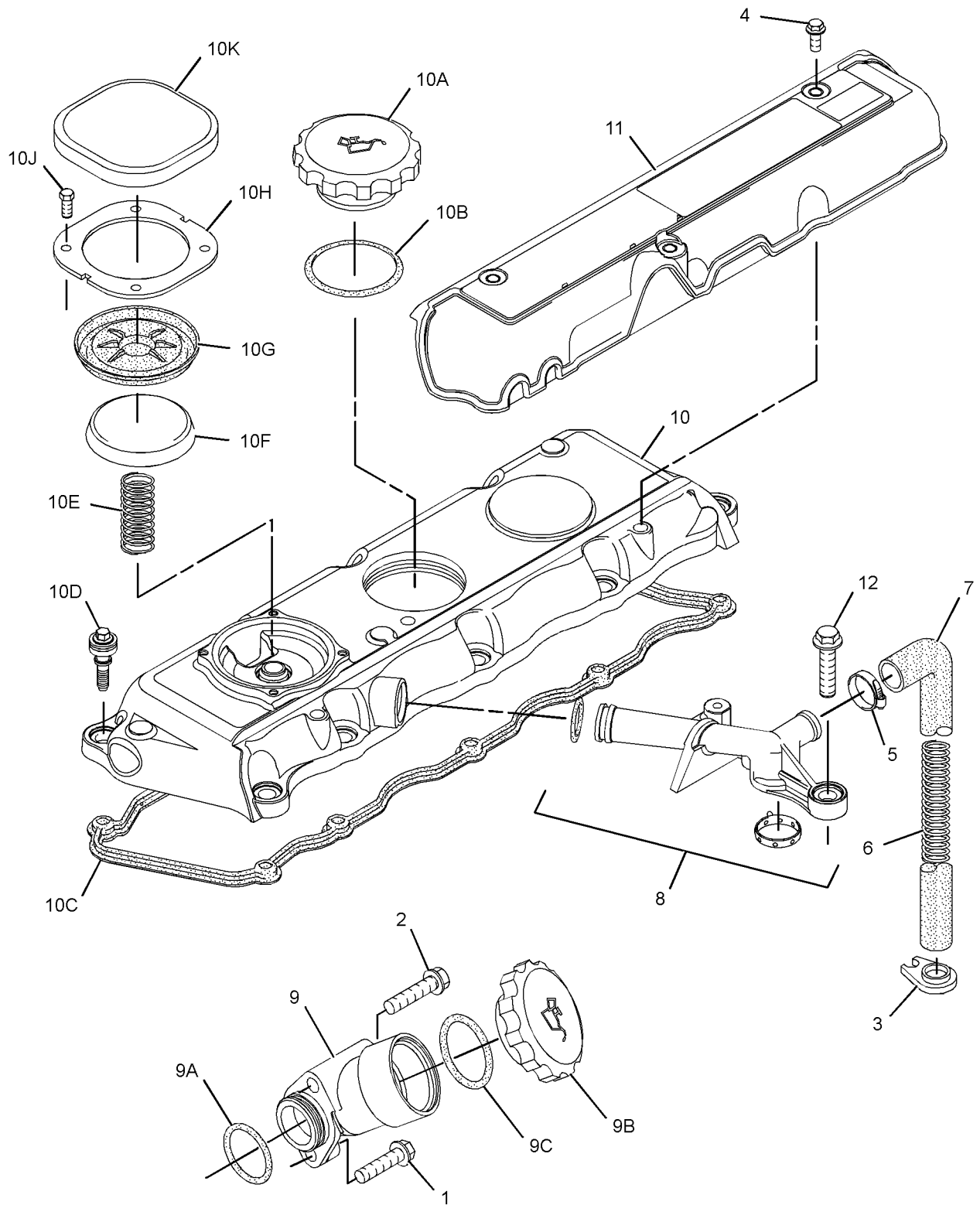
C-CHANGE FROM PREVIOUS TYPE

M-METRIC PART

BASIC ENGINE

272-2228 COVER GP-VALVE MECHANISM (contd.)

i02614877



GRAPHIC #1

<END>

g01288485

BASIC ENGINE

273-0871 COVER GP-VALVE MECHANISM

S/N: D1K1-UP
AN ATTACHMENT
TYPE 1

SMCS-1107

i02435271

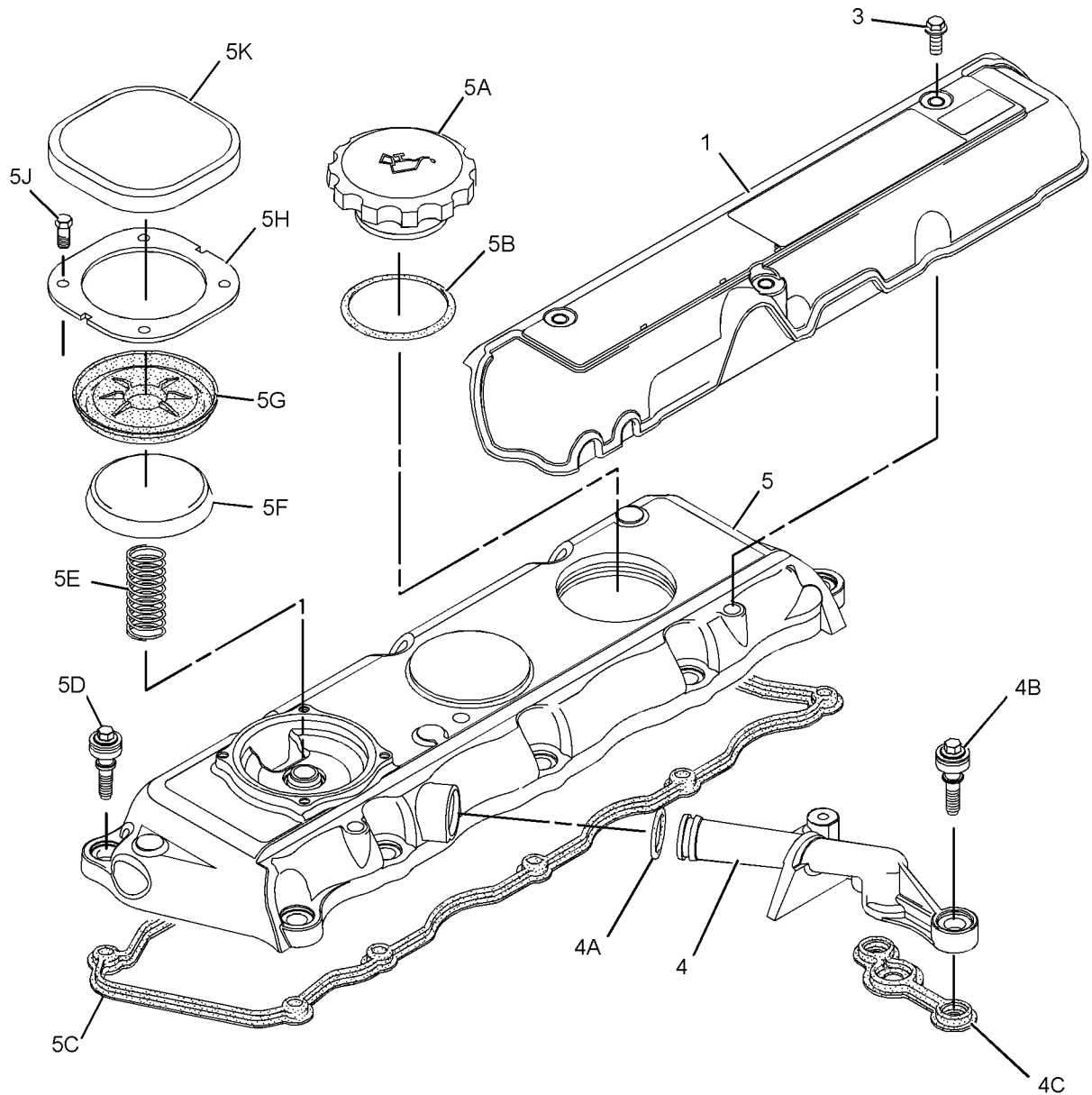
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-9127	1	COVER						
	3	1	6I-0846	3	BOLT (M6X1X14-MM)						
	4	1	230-9125	1	CONNECTOR						
	4A	1	150-7732	1	SEAL-O-RING						
	4B	1	225-6455	2	BOLT						
	4C	1	225-6517	1	GASKET						
	5	1	236-8184	1	COVER GP-VALVE MECHANISM						
	5A	1	136-3608	1	CAP AS (ENGINE OIL FILLER)						
	5B	1	124-0506	1	SEAL						
	5C	1	225-6451	1	GASKET (VALVE COVER)						
	5D	1	225-6455	10	BOLT						
	5E	1	225-6456	1	SPRING						
	5F	1	225-6461	1	CAP						
	5G	1	225-6464	1	DIAPHRAGM (CRANKCASE PRESSURE CONTACTOR)						
	5H	1	225-6477	1	PLATE						
	5J	1	225-6478	4	SCREW-MACHINE						
	5K	1	225-6479	1	CAP						
	FM		6I-0254	1	BOLT (M8X1.25X30-MM)						
	F		6I-4374	1	BOLT						
	F		236-9152	1	BOSS						

F - NOT SHOWN
M - METRIC PART

BASIC ENGINE

273-0871 COVER GP-VALVE MECHANISM (contd.)

i02435271



GRAPHIC #1

<END>

g01160695

BASIC ENGINE

273-0871 COVER GP-VALVE MECHANISM

S/N: D1K1-UP
AN ATTACHMENT
TYPE 2

SMCS-1107

i02623656

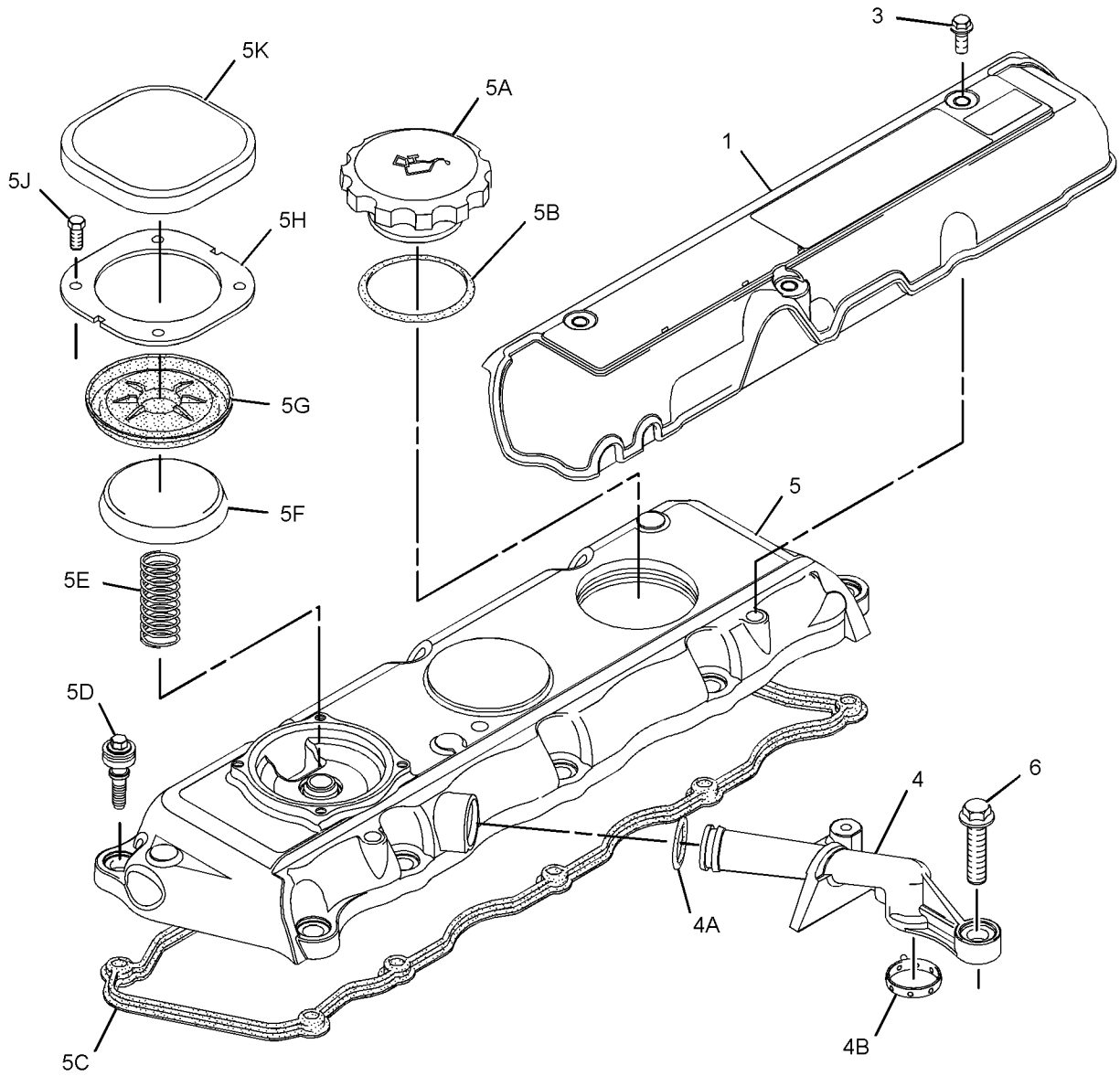
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-9127	1	COVER						
	3	1	6I-0846	3	BOLT (M6X1X14-MM)						
	4	1	286-3029	1	PIPE-BREATHER						
	4A	1	150-7732	1	SEAL-O-RING						
	4B	1	286-3030	2	RING-SEAL						
	5	1	247-7797	1	COVER GP-VALVE MECHANISM						
	5A	1	136-3608	1	CAP AS (ENGINE OIL FILLER)						
	5B	1	124-0506	1	SEAL						
	5C	1	225-6451	1	GASKET (VALVE COVER)						
	5D	1	225-6455	10	BOLT						
	5E	1	225-6456	1	SPRING						
	5F	1	225-6461	1	CAP (CRANKCASE BREATHER)						
	5G	1	225-6464	1	DIAPHRAGM (CRANKCASE PRESSURE CONTACTOR)						
	5H	1	225-6477	1	PLATE						
	5J	1	225-6478	4	SCREW-MACHINE						
	5K	1	225-6479	1	CAP						
	6	1	100-4838	2	BOLT (M6X20-MM)						
	FM		6I-0254	1	BOLT (M8X1.25X30-MM)						
	F		6I-4374	1	BOLT						
	F		236-9152	1	BOSS						

F - NOT SHOWN
M - METRIC PART

BASIC ENGINE

273-0871 COVER GP-VALVE MECHANISM (contd.)

i02623656



GRAPHIC #1

<END>

g01288216

BASIC ENGINE

232-7439 CRANKSHAFT GP

S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1202

i02354786

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1B-8736	1	KEY-WOODRUFF						
	2	1	216-8314	1	GEAR-CRANKSHAFT (34-TEETH)						
	3	1	232-7400	1	CRANKSHAFT GP						
	4	1	225-7772	1	BEARING SET-MAIN (STANDARD)						
AB		1	233-3784		KIT-CRANKSHAFT BEARING (0.25-MM OS)						
AB		1	233-3785		KIT-CRANKSHAFT BEARING (0.5-MM OS)						
AB		1	233-3786		KIT-CRANKSHAFT BEARING (0.76-MM OS)						
	5	1	225-7781	1	BEARING SET-ROD (STANDARD)						
AB		1	233-3788		KIT-ROD BEARING (0.25-MM OS)						
AB		1	233-3789		KIT-ROD BEARING (0.51-MM OS)						
AB		1	233-3790		KIT-ROD BEARING (0.76-MM OS)						
	6	1	032-9090	2	WASHER-THRUST (STANDARD-UPPER)						
AB		1	067-6873		WASHER-THRUST (0.18-MM OS) (UPPER)						
	7	1	032-9091	2	WASHER-THRUST (STANDARD-LOWER)						
AB		1	067-6874		WASHER-THRUST (0.18-MM OS) (LOWER)						

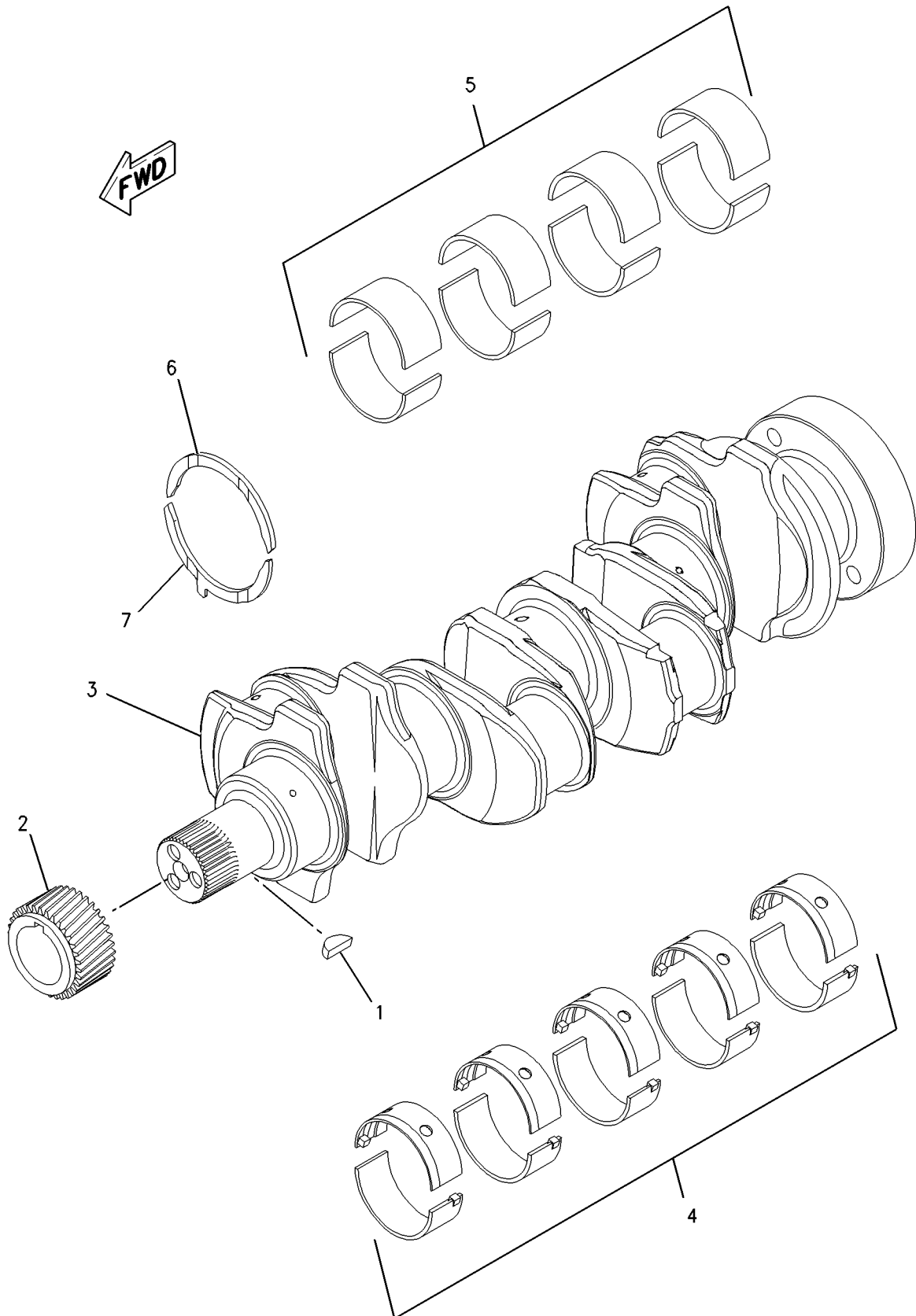
A-NOT PART OF THIS GROUP

B-USE AS REQUIRED

BASIC ENGINE

232-7439 CRANKSHAFT GP (contd.)

i02354786



GRAPHIC #1

<END>

g00950782

BASIC ENGINE

233-7027 CRANKSHAFT GP

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1202

i02354797

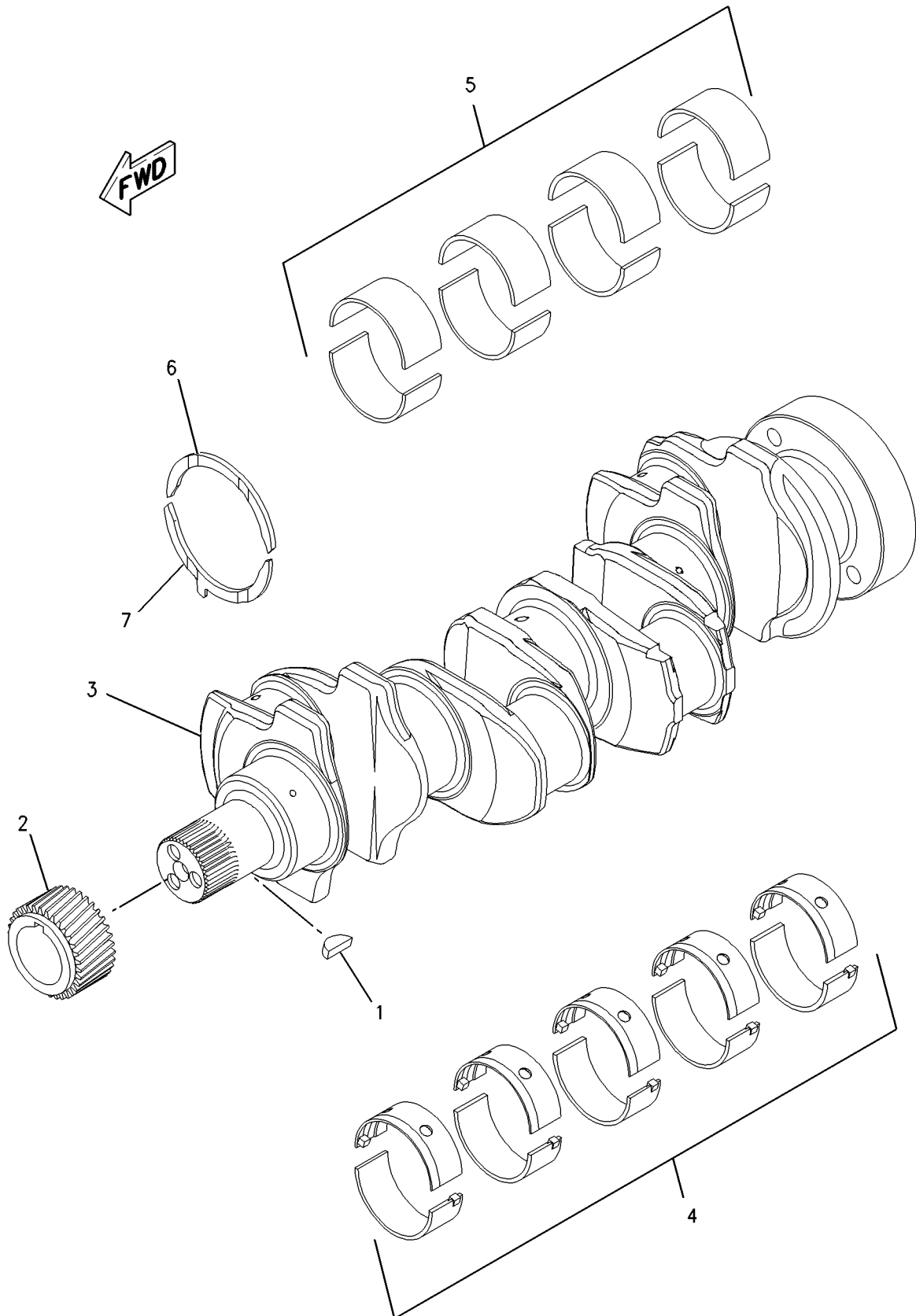
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1B-8736	1	KEY-WOODRUFF						
	2	1	216-8314	1	GEAR-CRANKSHAFT (34-TEETH)						
	3	1	233-7009	1	CRANKSHAFT GP						
	4	1	225-7772	1	BEARING SET-MAIN (STANDARD)						
AB		1	233-3784		KIT-CRANKSHAFT BEARING (0.25-MM OS)						
AB		1	233-3785		KIT-CRANKSHAFT BEARING (0.5-MM OS)						
AB		1	233-3786		KIT-CRANKSHAFT BEARING (0.76-MM OS)						
	5	1	225-7781	1	BEARING SET-ROD (STANDARD)						
AB		1	233-3788		KIT-ROD BEARING (0.25-MM OS)						
AB		1	233-3789		KIT-ROD BEARING (0.51-MM OS)						
AB		1	233-3790		KIT-ROD BEARING (0.76-MM OS)						
	6	1	032-9090	2	WASHER-THRUST (STANDARD-UPPER)						
AB		1	067-6873		WASHER-THRUST (0.18-MM OS) (UPPER)						
	7	1	032-9091	2	WASHER-THRUST (STANDARD-LOWER)						
AB		1	067-6874		WASHER-THRUST (0.18-MM OS) (LOWER)						

A - NOT PART OF THIS GROUP
B - USE AS REQUIRED

BASIC ENGINE

233-7027 CRANKSHAFT GP (contd.)

i02354797



GRAPHIC #1

<END>

g00950782

BASIC ENGINE

232-7604 CYLINDER BLOCK GP

S/N: D1K1-UP; J1Z1-UP

PART OF 232-7606, 233-7007 CYLINDER BLOCK GP
AN ATTACHMENT

SMCS-1201

i02535609

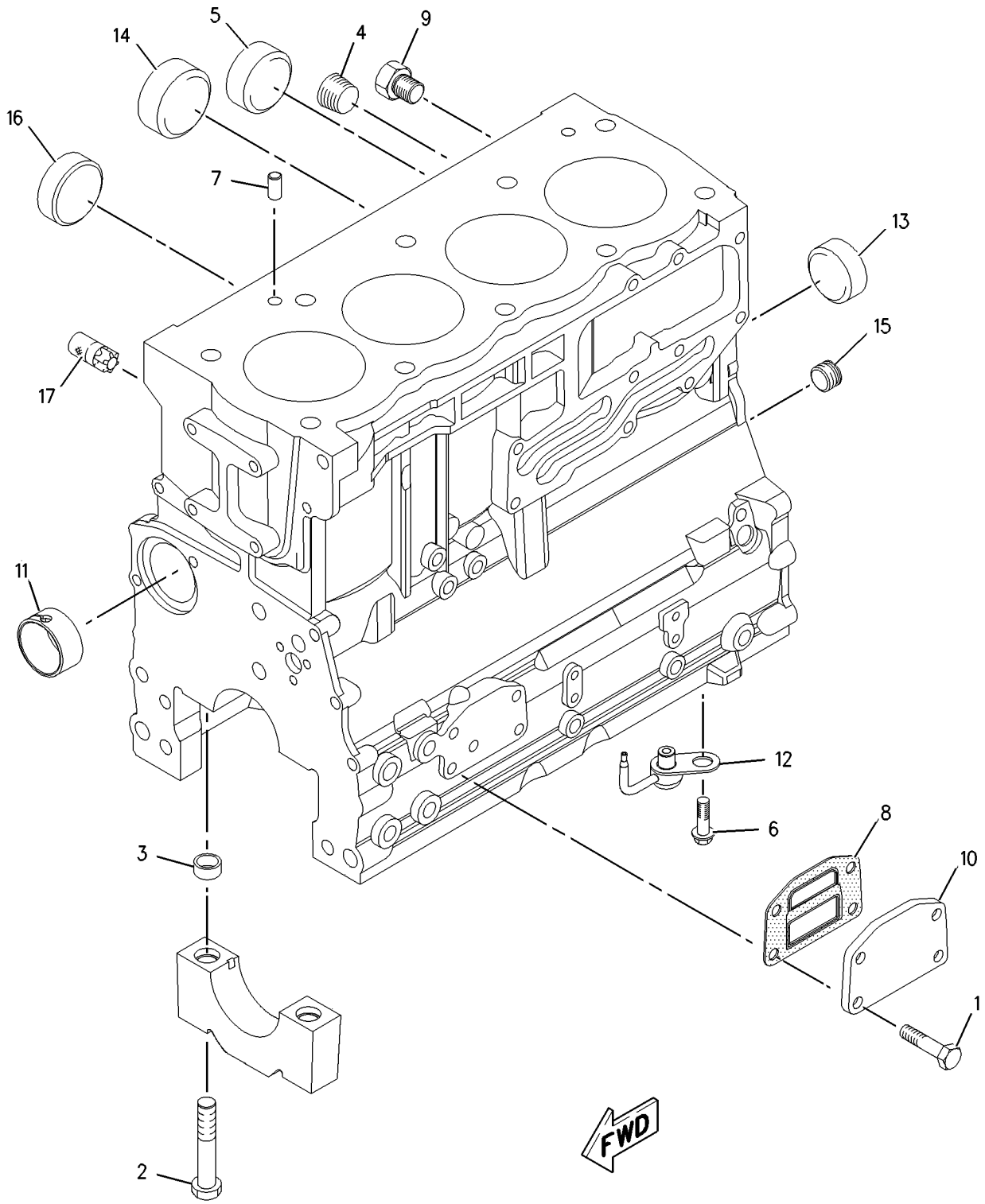
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0572	4	BOLT (M8X1.25X20-MM)						
	2	1	035-8068	10	BOLT (5/8-18X3.75-IN)						
	3	1	067-6002	10	DOWEL						
	4	1	067-6006	1	PLUG						
	5	1	067-6043	1	PLUG-SIDE						
M	6	1	100-4841	4	BOLT (M6X1X10-MM)						
	7	1	185-0884	2	DOWEL						
	8	1	225-7944	1	GASKET (ENGINE OIL FILTER BASE)						
	9	1	225-8858	2	PLUG						
	10	1	232-3751	1	PLATE						
	11	1	232-7440	1	BEARING						
	12	1	276-5605	4	JET AS-PISTON COOLING						
	13	1	232-7596	1	PLUG						
	14	1	232-7597	2	PLUG						
	15	1	232-7599	1	PLUG						
	16	1	232-7600	1	PLUG-CUP						
	17	1	232-7603	1	PLUG						

M-METRIC PART

BASIC ENGINE

232-7604 CYLINDER BLOCK GP (contd.)

i02535609



GRAPHIC #1

<END>

g00951214

BASIC ENGINE

232-7606 CYLINDER BLOCK GP

S/N: J1Z1-UP

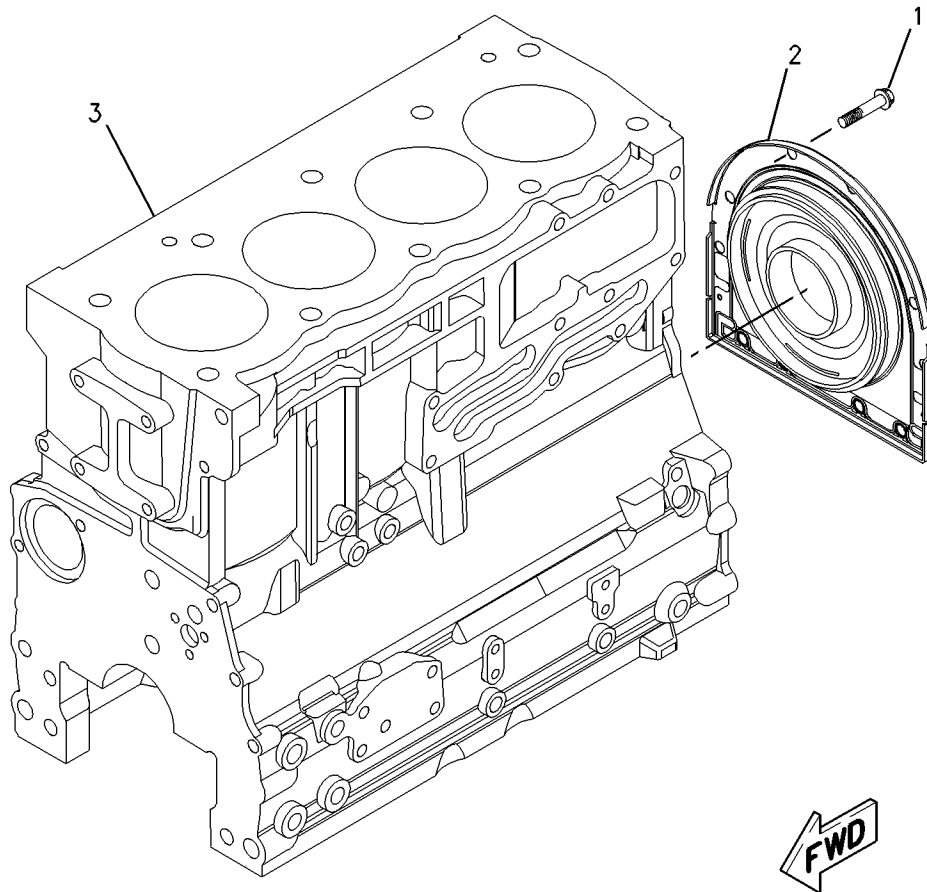
PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1201

i02317984

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	209-9219	10	BOLT (M8X1.25X16-MM)						
	2	1	232-7449	1	HOUSING AS						
Y	3	1	232-7604	1	CYLINDER BLOCK GP						40

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00952056

BASIC ENGINE

233-7007 CYLINDER BLOCK GP

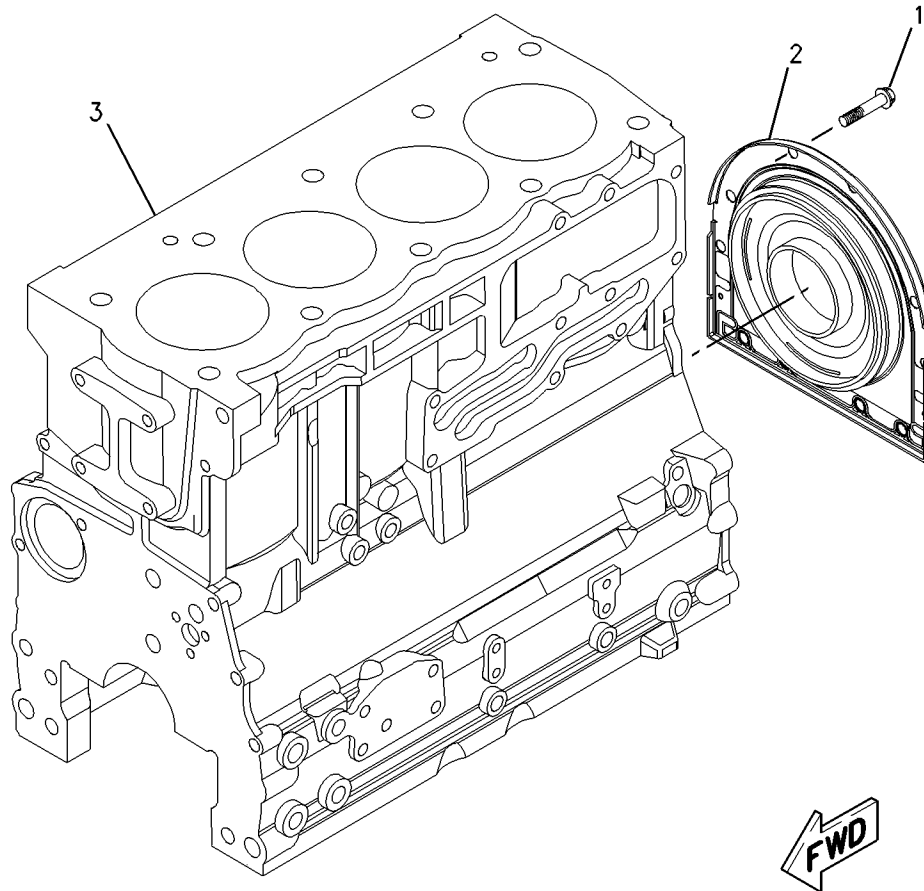
S/N: D1K1-UP
AN ATTACHMENT

SMCS-1201

i02316238

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	209-9219	10	BOLT (M8X1.25X16-MM)						
	2	1	232-7449	1	HOUSING AS						
Y	3	1	232-7604	1	CYLINDER BLOCK GP						40

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00952056

BASIC ENGINE

232-7519 CYLINDER HEAD GP

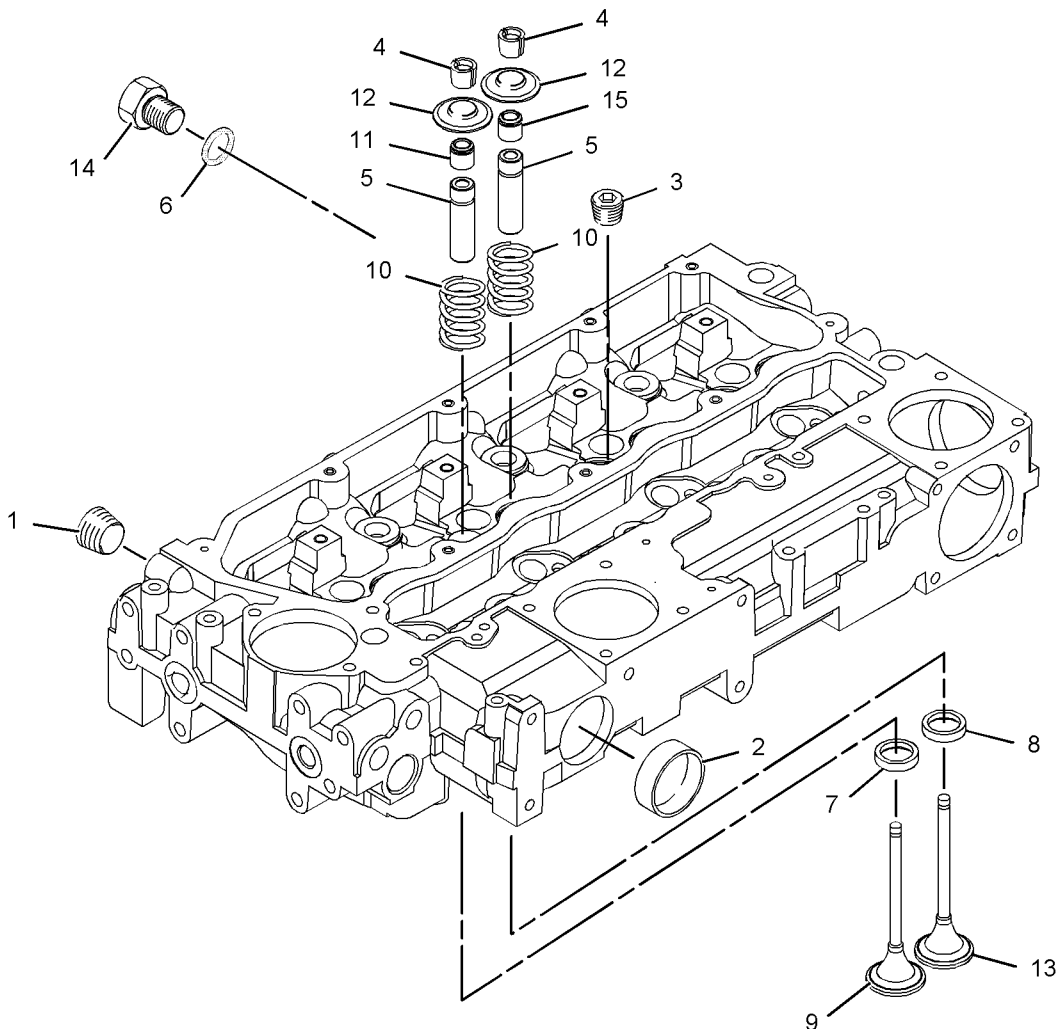
S/N: D1K1-UP; J1Z1-UP

PART OF 232-7524, 233-7234 CYLINDER HEAD GP
AN ATTACHMENT

SMCS-1100

i02317496

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2B-0858	1	PLUG-PIPE						
	2	1	9Y-5015	2	PLUG-FREEZE						
	3	1	067-6006	4	PLUG						
	4	1	147-1979	16	RETAINER-VALVE SPRING						
	5	1	185-0882	8	GUIDE-VALVE (INTAKE)						
	6	1	199-9751	1	SEAL-O-RING						
	7	1	225-5493	4	INSERT-VALVE (INLET)						
	8	1	225-5494	4	INSERT-VALVE (EXHAUST)						
	9	1	225-5495	4	VALVE-INLET						
	10	1	225-5496	8	SPRING-VALVE						
	11	1	252-6438	4	SEAL-INLET VALVE						
	12	1	225-5498	8	CAP						
	13	1	225-5499	4	VALVE-EXHAUST						
	14	1	232-1322	1	PLUG						
	15	1	254-3954	4	SEAL-EXHAUST VALVE						



GRAPHIC #1

<END>

g01095382

BASIC ENGINE

232-7524 CYLINDER HEAD GP

S/N: J1Z1-UP

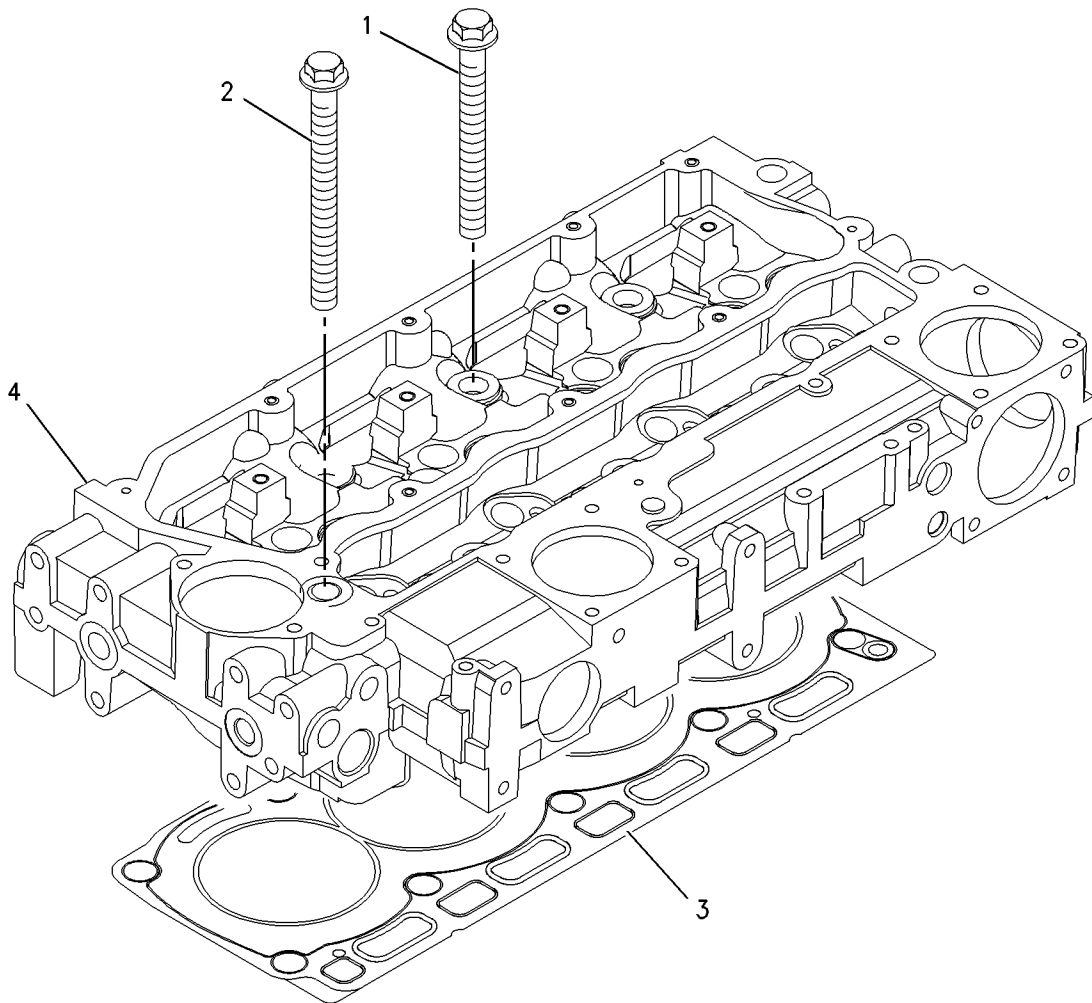
PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1100

i02499236

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-5501	7	BOLT (M15X1.5X137-MM)						
	2	1	225-5502	3	BOLT (M15X1.5X162-MM)						
	3	1	258-4946	1	GASKET-HEAD						
Y	4	1	232-7519	1	CYLINDER HEAD GP						44

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00909291

BASIC ENGINE

233-7234 CYLINDER HEAD GP

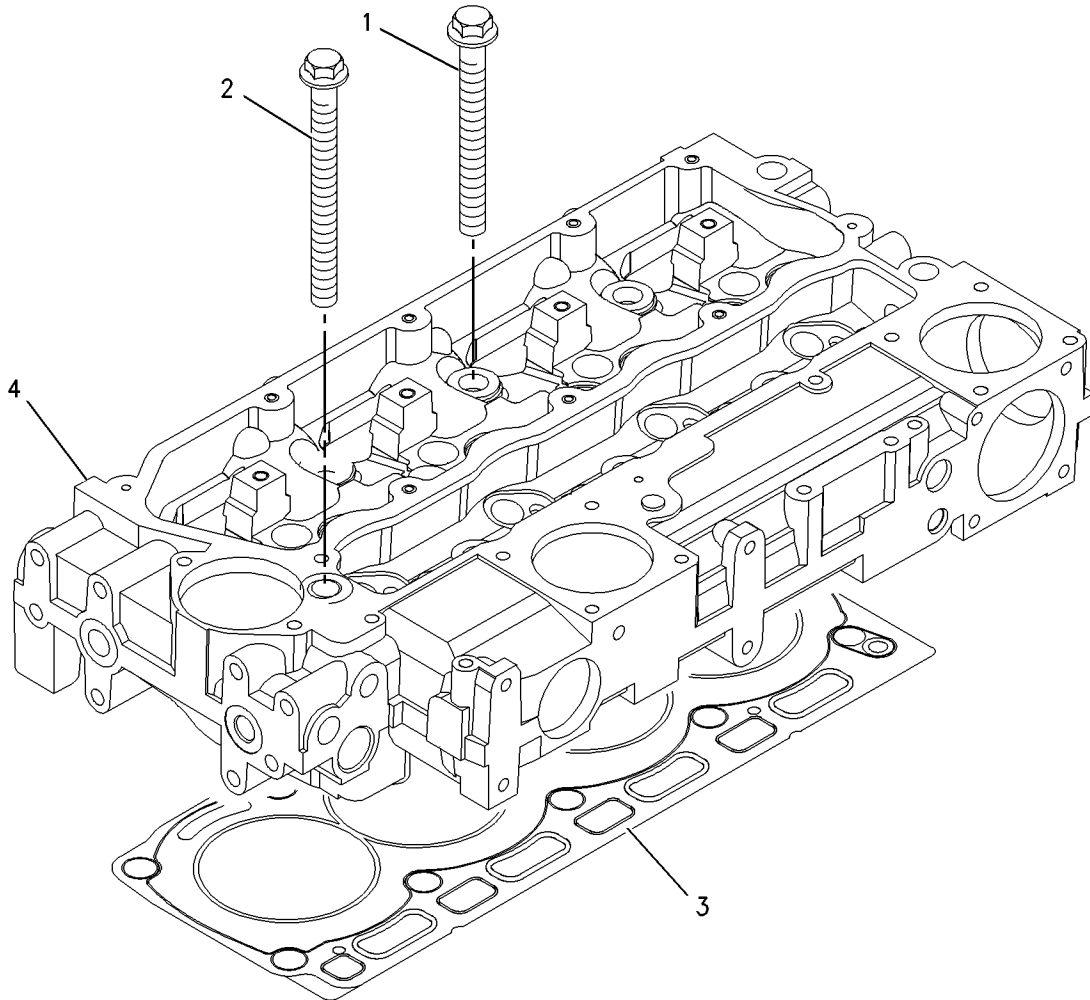
S/N: D1K1-UP
AN ATTACHMENT

SMCS-1100

i02316382

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-5501	7	BOLT (M15X1.5X137-MM)						
	2	1	225-5502	3	BOLT (M15X1.5X162-MM)						
	3	1	237-1911	1	GASKET-CYLINDER HEAD						
Y	4	1	232-7519	1	CYLINDER HEAD GP						44

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g00909291

BASIC ENGINE

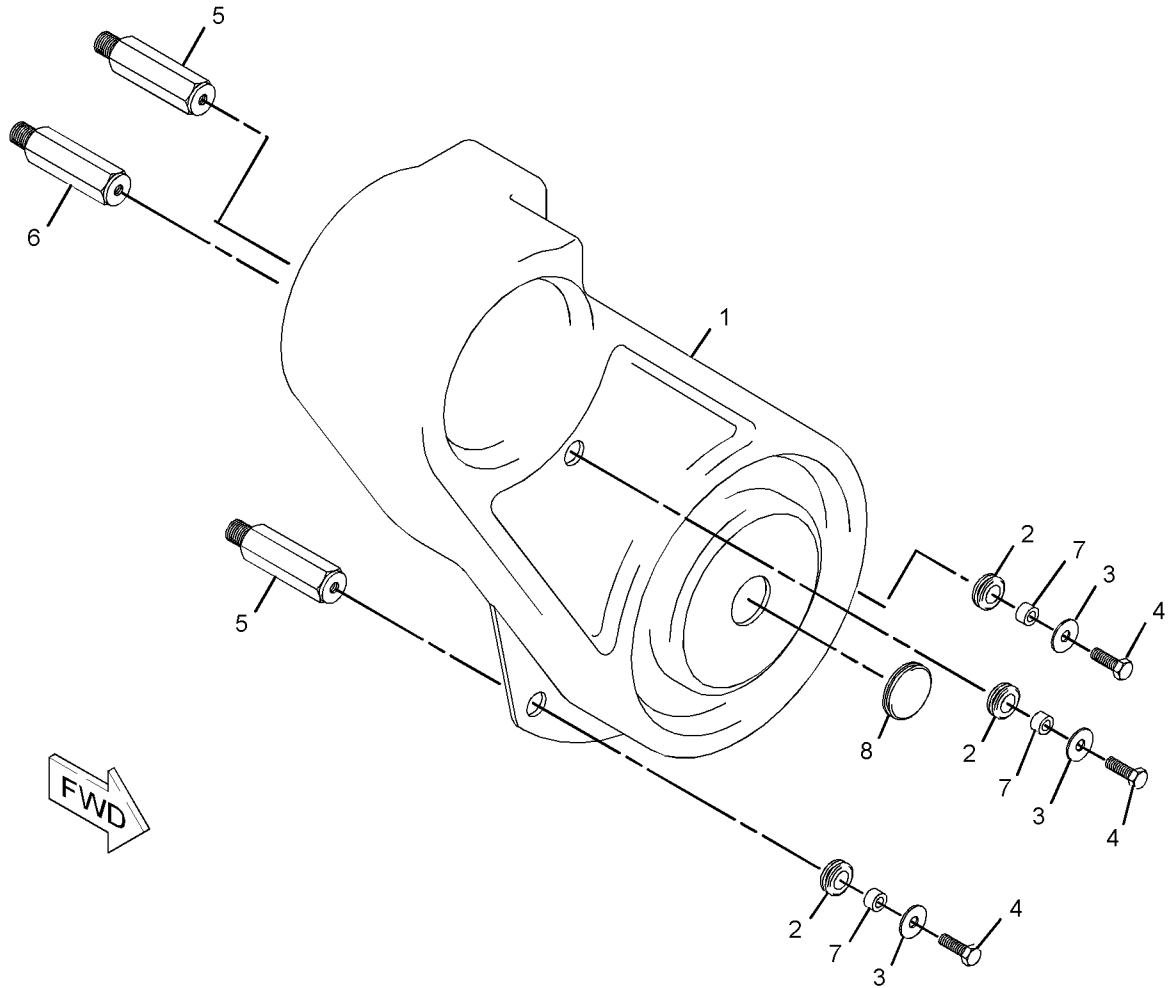
265-6535 GUARD GP-BELT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-7174

i02288799

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	265-6532	1	GUARD-BELT						
	2	1	196-0270	3	GROMMET						
	3	1	196-0272	3	WASHER (8.3X25.4X1.5-MM)						
	4	1	196-0340	3	SETSCREW (M8X25)						
	5	1	204-0370	2	SPACER (M16XM8)						
	6	1	265-6533	1	SPACER (M8X1.25)						
	7	1	196-0271	3	SPACER (8.5X14.3X8-MM)						
	8	1	265-6534	1	GROMMET						



GRAPHIC #1

<END>

g01149245

BASIC ENGINE

263-7044 HOUSING GP-FLYWHEEL

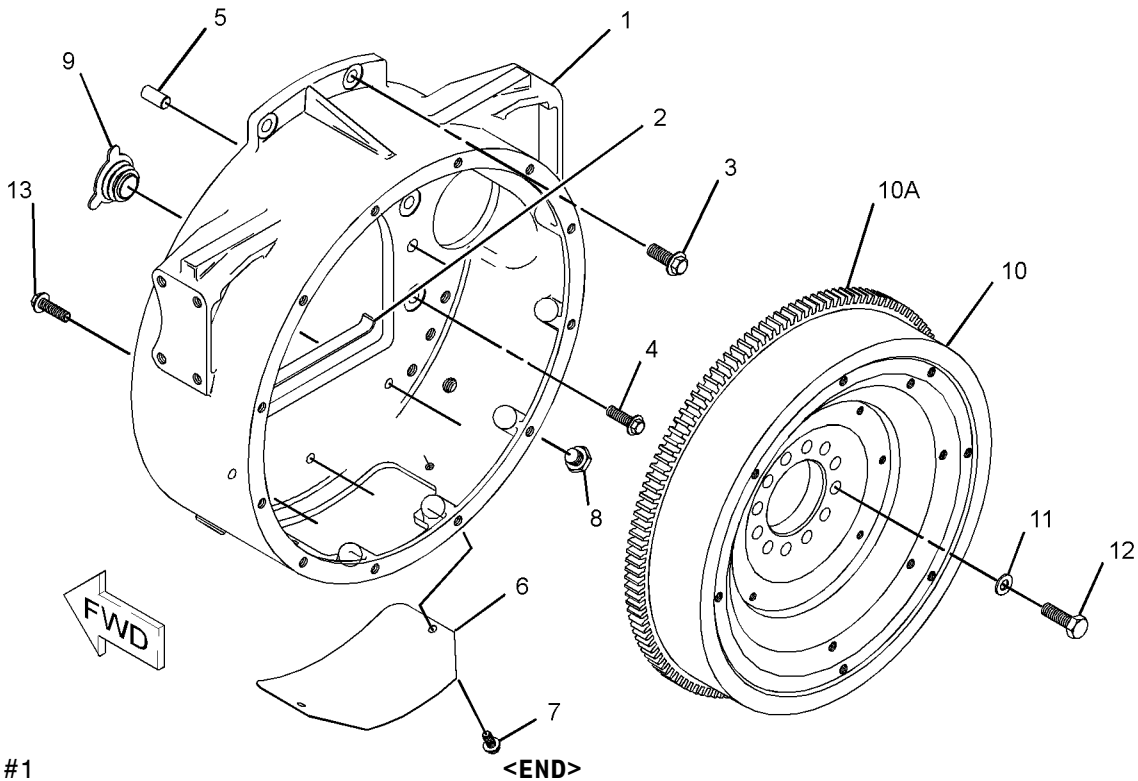
S/N: L1K1-UP; S1M1-UP
 FOR USE WITH SINGLE STARTER ONLY
 AN ATTACHMENT

SMCS-1157

i02612960

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	220-8632	1	HOUSING-FLYWHEEL						
	2	1	7W-4642	1	SHIELD-DUST						
M	3	1	6I-0423	2	BOLT (M12X1.75X30-MM)						
	4	1	121-0883	6	BOLT (M10X1.5X30-MM)						
	5	1	287-8597	2	DOWEL						
	6	1	7W-1176	1	PLATE-COVER						
	7	1	101-3615	2	BOLT (M8X10)						
	8	1	6I-0847	1	PLUG						
	9	1	210-6655	1	PLUG						
	10	1	103-6131	1	FLYWHEEL AS						
	10A	1	033-7687	1	RING-STARTING MOTOR (126-TEETH)						
	11	1	5P-8245	10	WASHER-HARD (13.5X25.5X3-MM THK)						
	12	1	0S-1603	10	BOLT (1/2-20X1.5-IN)						
M	13	1	6I-0593	3	BOLT (M10X1.5X30-MM)						

M-METRIC PART



GRAPHIC #1

g01147784

BASIC ENGINE

263-7059 HOUSING GP-FLYWHEEL

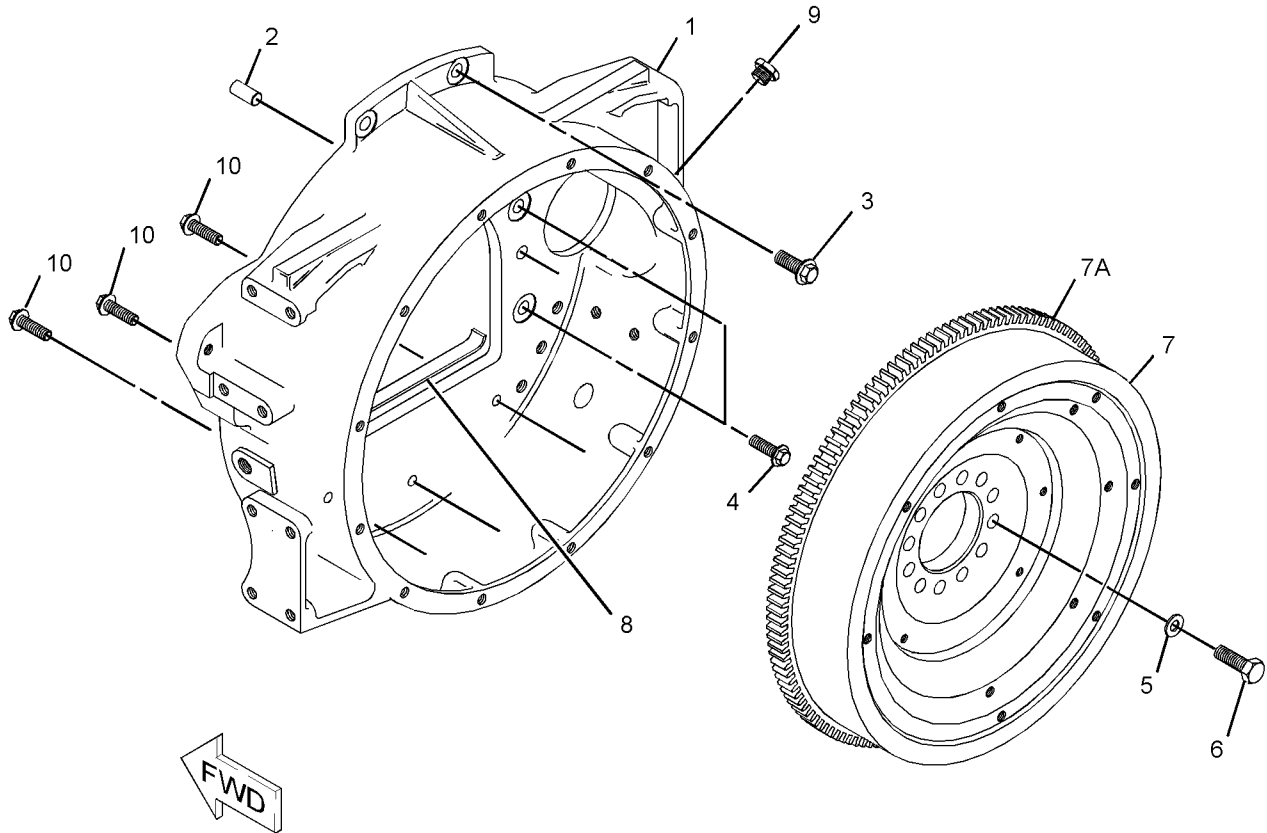
S/N: L1K1-UP; S1M1-UP
 FOR USE WITH TWIN STARTER ONLY
 AN ATTACHMENT

SMCS-1157

i02612964

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	210-7730	1	HOUSING-FLYWHEEL						
	2	1	287-8597	2	DOWEL						
M	3	1	6I-0423	2	BOLT (M12X1.75X30-MM)						
	4	1	121-0883	6	BOLT (M10X1.5X30-MM)						
	5	1	5P-8245	10	WASHER-HARD (13.5X25.5X3-MM THK)						
	6	1	0S-1603	10	BOLT (1/2-20X1.5-IN)						
	7	1	103-6131	1	FLYWHEEL AS						
	7A	1	033-7687	1	RING-STARTING MOTOR (126-TEETH)						
	8	1	7W-4642	1	SHIELD-DUST						
	9	1	6I-0847	1	PLUG						
M	10	1	6I-0593	3	BOLT (M10X1.5X30-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01149348

BASIC ENGINE

232-6179 HOUSING GP-FRONT

S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1151, 1162, 1206

i02603554

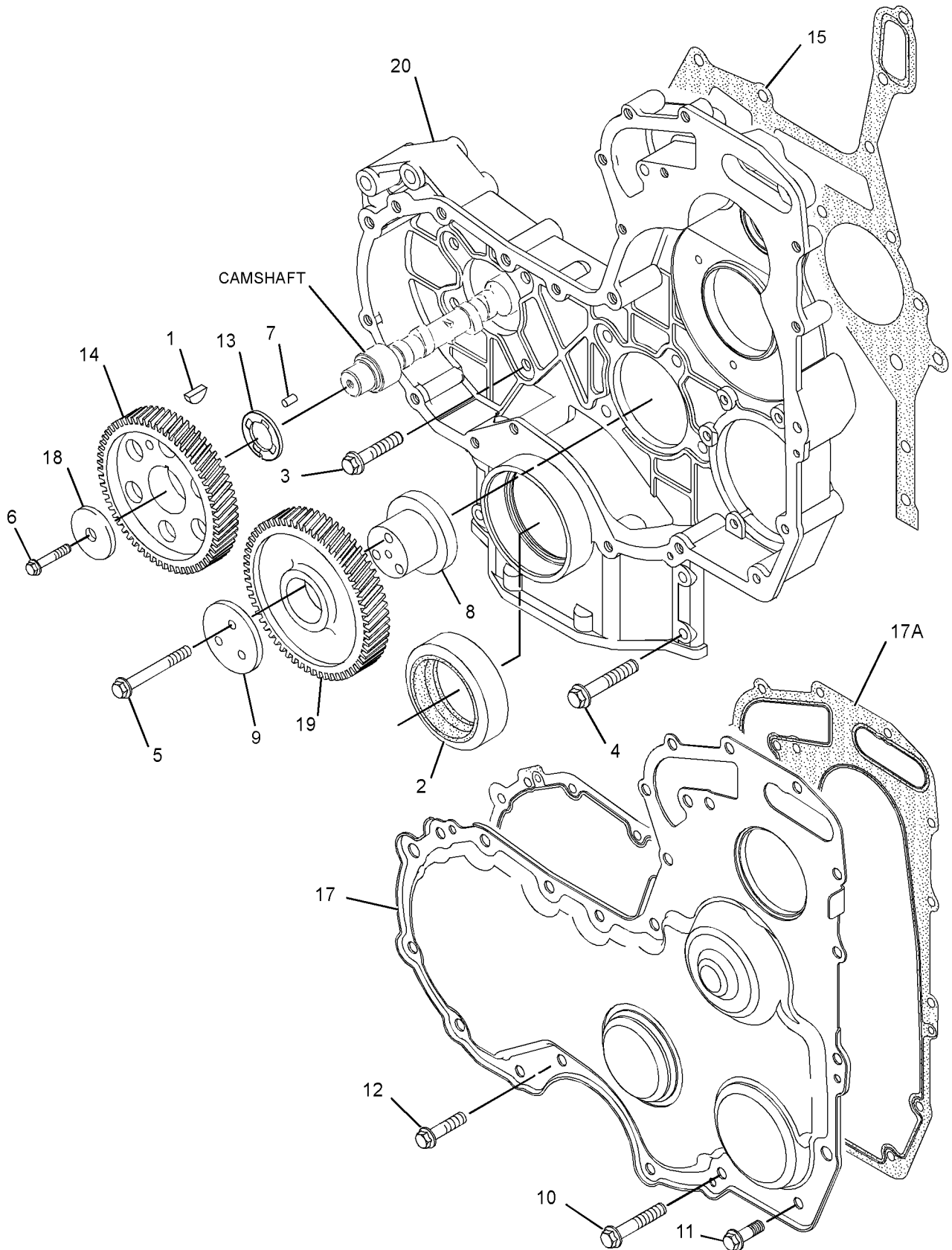
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	1B-8736	1	KEY-WOODRUFF						
	2	1	288-0422	1	SEAL-OIL (FRONT)						
M	3	1	6I-0217	8	BOLT (M8X1.25X20-MM)						
M	4	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
CM	5	1	6I-0650	3	BOLT (M10X1.5X65-MM)						
	6	1	7C-4616	1	BOLT (M12X1.75X45-MM)						
	7	1	067-6179	1	DOWEL						
C	8	1	282-9861	1	HUB-IDLER GEAR						
C	9	1	295-1711	1	PLATE-RETAINING						
M	10	1	100-3751	5	BOLT (M8X1.25X65-MM)						
M	11	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	12	1	124-3815	9	BOLT (M8X16X1.25-MM)						
	13	1	232-3666	1	WASHER-THRUST						
	14	1	216-8634	1	GEAR-CAMSHAFT (68-TEETH)						
	15	1	277-3012	1	GASKET-COVER						
	17	1	226-8767	1	COVER AS-FRONT						
	17A	1	226-8766	1	GASKET-COVER						
	18	1	133-1011	1	WASHER						
	19	1	251-4336	1	GEAR AS-IDLER (73-TEETH)						
	20	1	294-0298	1	HOUSING-FRONT						

C- CHANGE FROM PREVIOUS TYPE
M- METRIC PART

BASIC ENGINE

232-6179 HOUSING GP-FRONT (contd.)

i02603554



GRAPHIC #1

<END>

g01311941

BASIC ENGINE

233-7432 LIFTING GP-ENGINE

S/N: D1K1-UP; J1Z1-UP

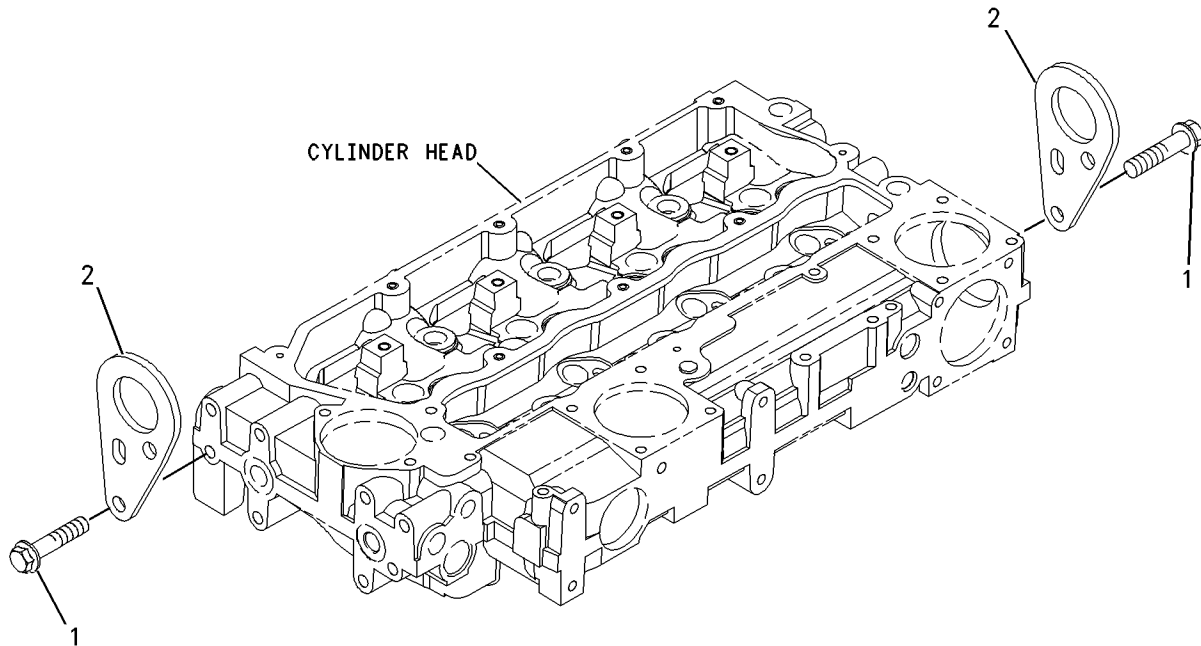
PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1122

i02317461

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	100-4830	4	BOLT (M10X1.5X20-MM)						
	2	1	225-8848	2	PLATE-LIFTING						

M-METRIC PART



GRAPHIC #1

<END>

g00955299

BASIC ENGINE

269-3748 LIFTING GP-ENGINE

S/N: L1K1-UP; S1M1-UP

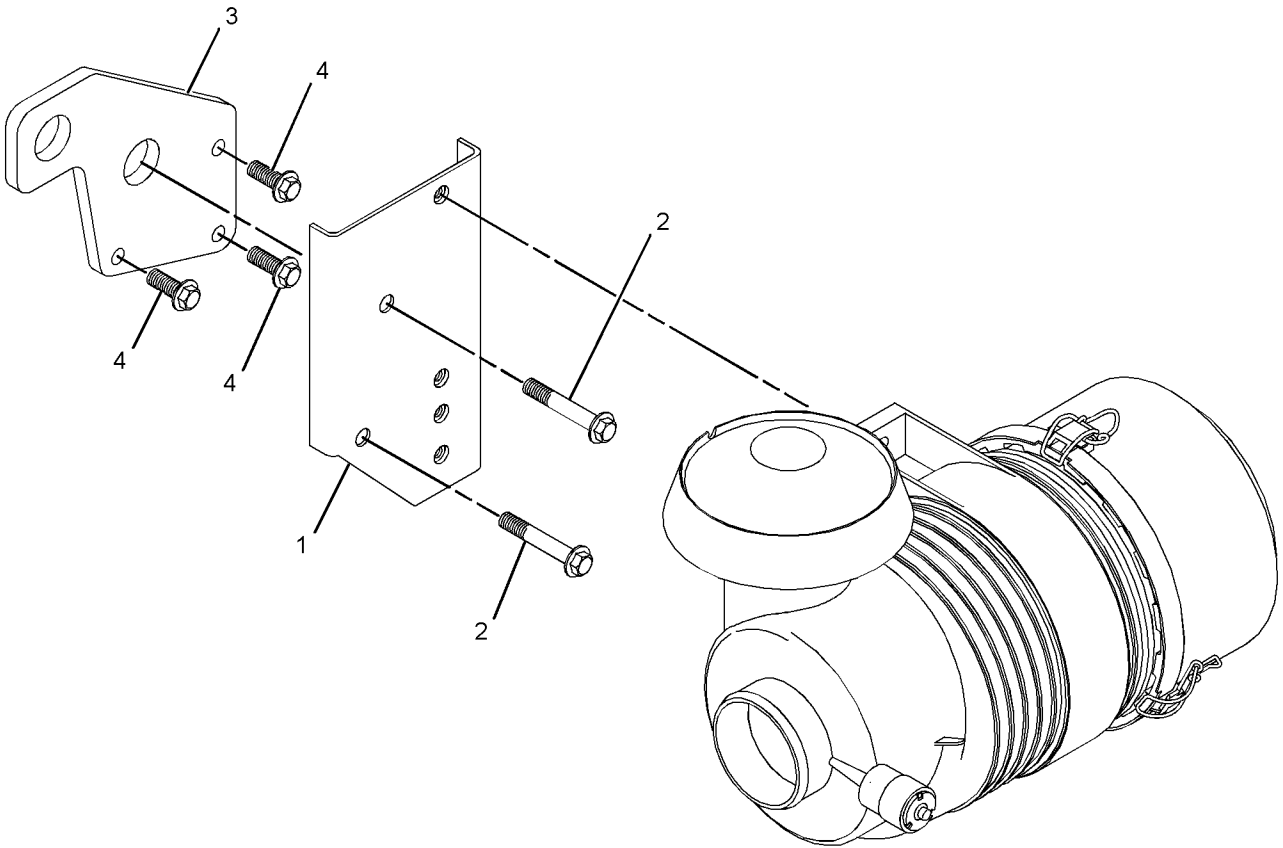
CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1122

i02319892

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	252-6291	1	BRACKET-MOUNTING						
	2	1	6I-0789	2	BOLT (M10X1.5X60-MM)						
	3	1	269-3747	1	BRACKET-LIFTING						
M	4	1	6I-0654	3	BOLT (M10X1.5X25-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01160402

BASIC ENGINE

289-9801 LIFTING GP-ENGINE

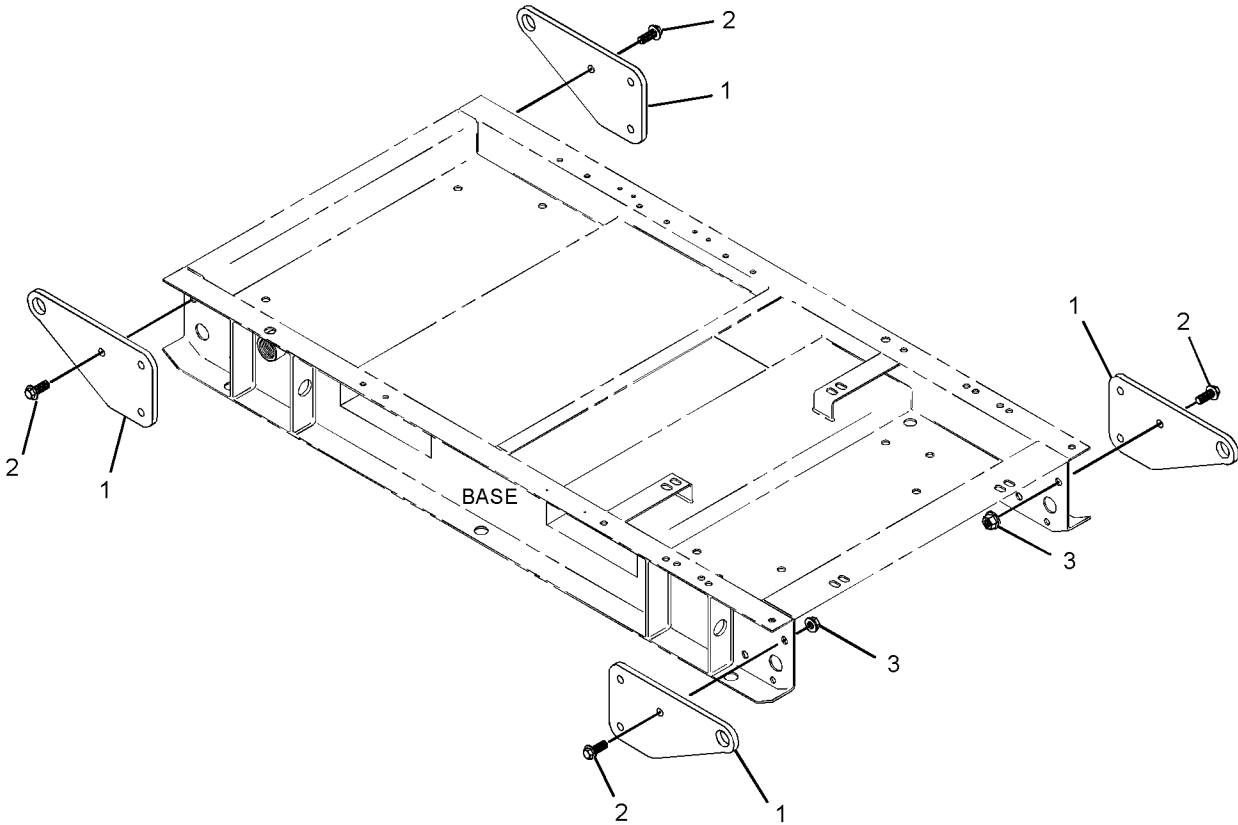
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1122

i02540163

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-9802	4	PLATE						
M	2	1	6I-0423	12	BOLT (M12X1.75X30-MM)						
	3	1	6I-0233	12	NUT (M12)						

M-METRIC PART



GRAPHIC #1

<END>

g01274158

BASIC ENGINE

263-7700 MOUNTING GP-ALTERNATOR

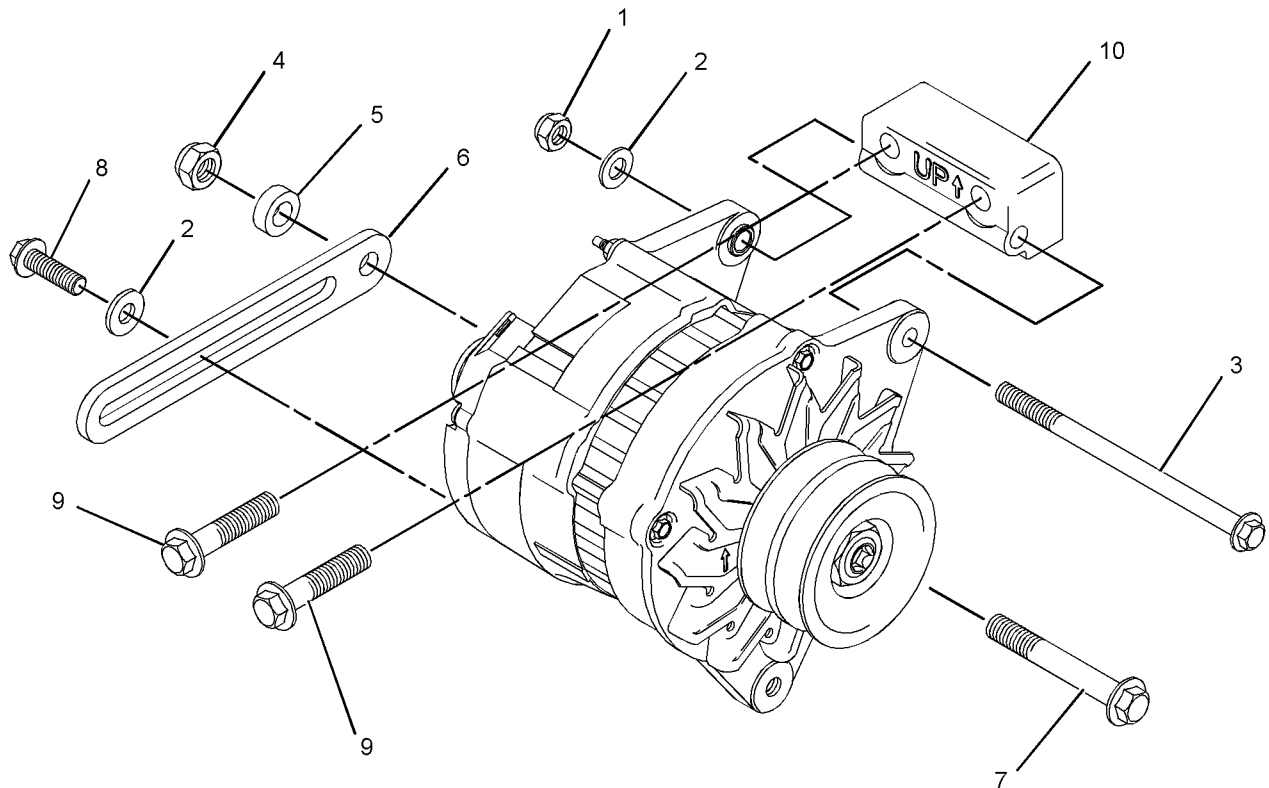
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1154, 1405

i02288465

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	3T-0852	1	LOCKNUT (M8X1.25-THD)						
	2	1	8T-4224	2	WASHER-HARD (8.8X16X2-MM THK)						
	3	1	100-8451	1	BOLT						
M	4	1	8T-0389	1	LOCKNUT (M10X1.15-THD)						
	5	1	214-3205	1	SPACER (10.32X19.05X6.35-MM THK)						
	6	1	263-7688	1	LEVER-ADJUSTING						
	7	1	6I-4045	1	BOLT (M10X1.5X75-MM)						
M	8	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
M	9	1	140-8783	2	BOLT (M10X45-MM)						
	10	1	233-9530	1	BRACKET						

M-METRIC PART



GRAPHIC #1

<END>

g01147030

BASIC ENGINE

292-0213 MOUNTING GP-BRACKET

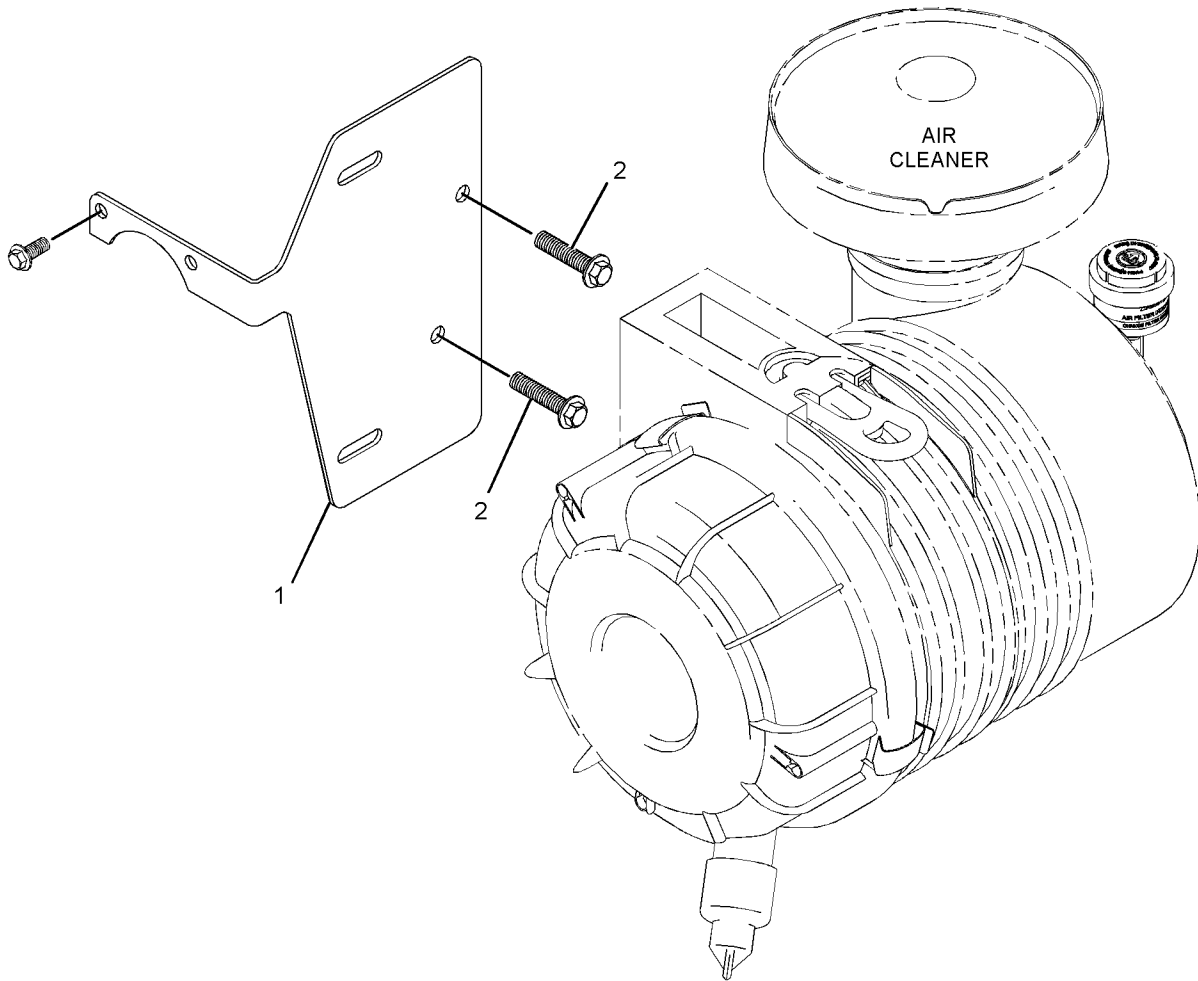
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-7174

i02540711

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	236-8748	1	BRACKET - MOUNTING						
M	2	1	140-8783	2	BOLT (M10X45-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01274185

BASIC ENGINE

272-2231 MOUNTING GP-ENGINE

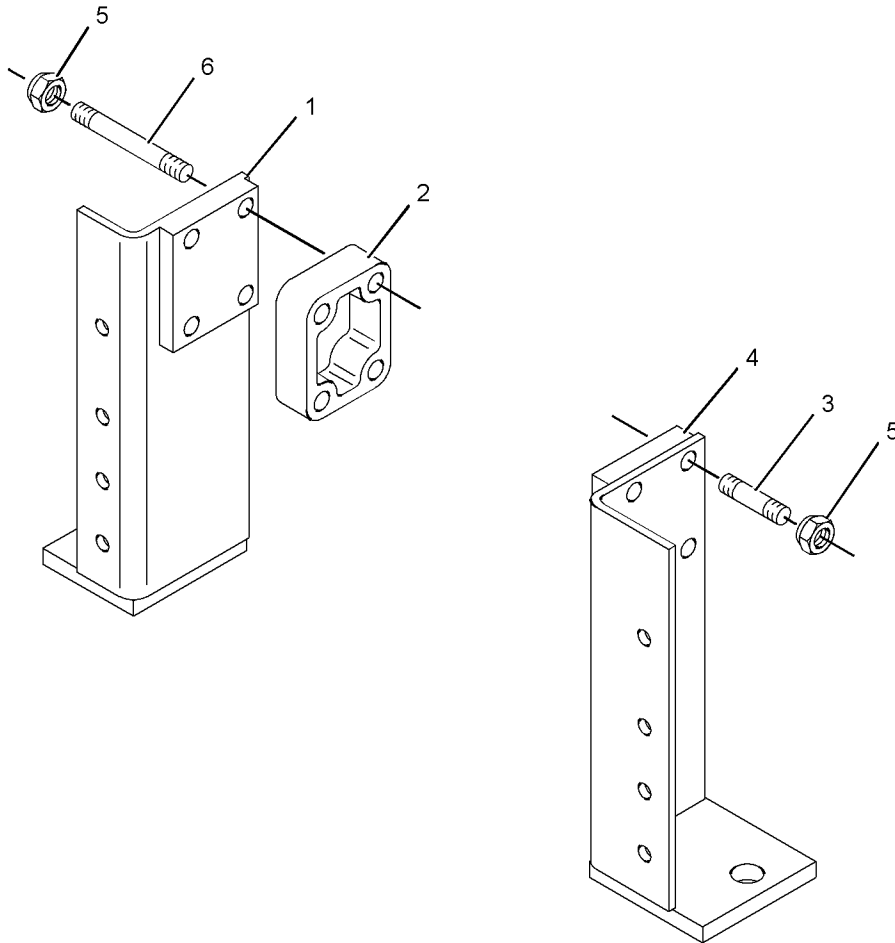
S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1152

i02316079

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	139-7007	1	BRACKET						
	2	1	145-2881	1	SPACER						
	3	1	183-1343	4	STUD						
	4	1	186-3594	1	BRACKET						
	5	1	195-2221	8	NUT (M12X1.75-THD)						
	6	1	247-8314	4	STUD (M12X1.75X55-MM)						



GRAPHIC #1

<END>

g01158020

BASIC ENGINE

266-5347 MOUNTING GP-ENGINE & GENERATOR

S/N: L1K1-UP; S1M1-UP

PART OF 284-5268, 284-5269 GENERAL AR-GENERATOR, 284-5271, 284-5272
GENERATOR AR

CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1021, 1152

i02301198

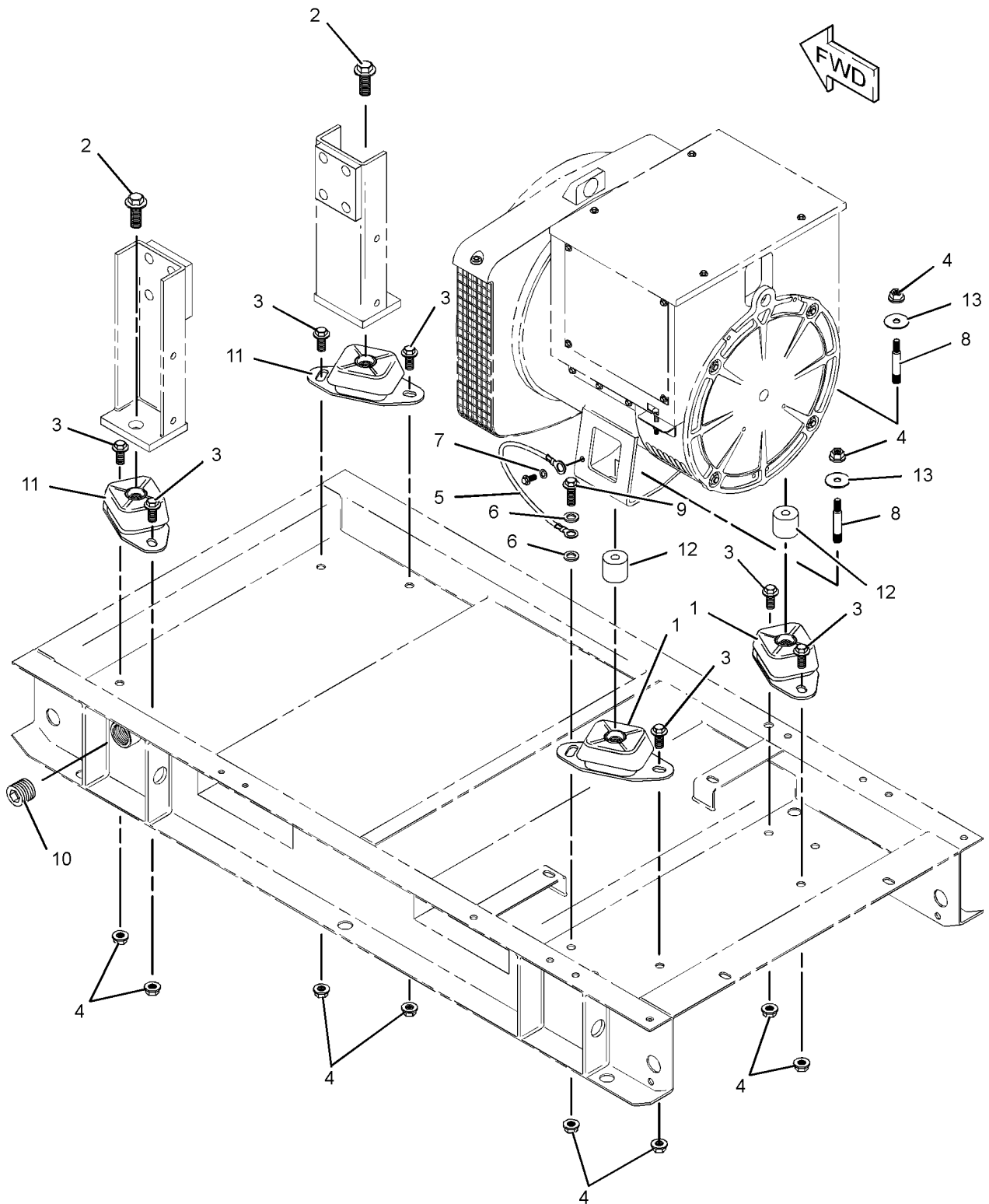
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-0405	2	MOUNT-FLEXIBLE						
	2	1	103-6716	2	BOLT (M16X40)						
	3	1	102-9941	7	BOLT (M12X1.75X25-MM)						
	4	1	6I-0233	10	NUT (M12)						
	5	1	266-5351	1	CABLE AS						
	6	1	196-0348	2	WASHER (13X23.5X2.5-MM THK)						
	7	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
	8	1	266-5356	2	STUD						
M	9	1	6I-0423	1	BOLT (M12X1.75X30-MM)						
	10	1	166-5000	1	PLUG						
	11	1	266-5354	2	MOUNT-FLEXIBLE						
	12	1	266-5355	2	SPACER						
	13	1	266-5360	2	WASHER (13X37X3-MM THK)						

M-METRIC PART

BASIC ENGINE

266-5347 MOUNTING GP-ENGINE & GENERATOR (contd.)

i02301198



GRAPHIC #1

<END>

g01153083

BASIC ENGINE

268-3640 MOUNTING GP-ENGINE & GENERATOR

S/N: S1M1-UP

PART OF 284-5273, 284-5274, 284-5275, 290-9639 GENERATOR AR
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1021, 1152

i02288978

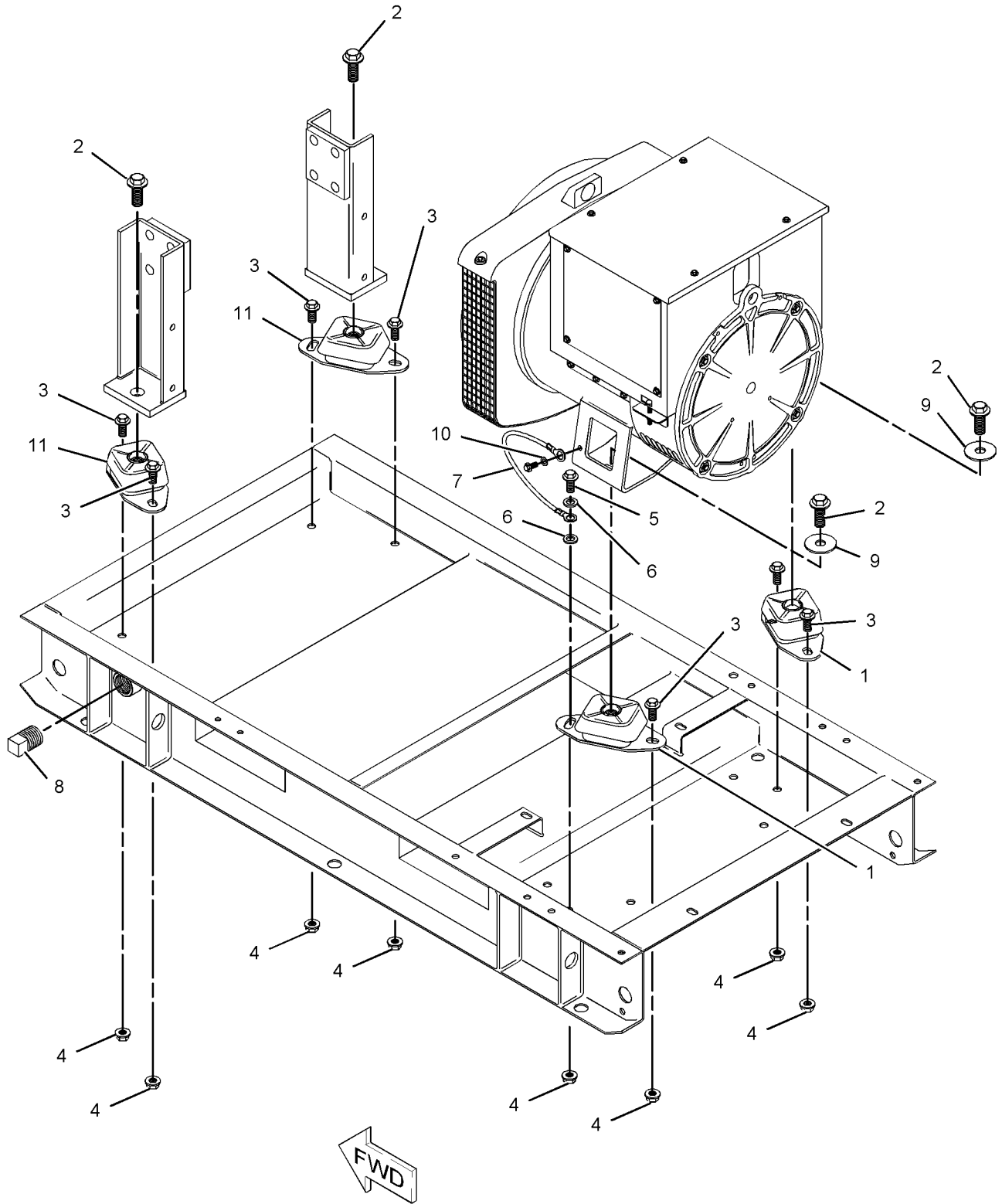
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	196-0405	2	MOUNT-FLEXIBLE						
	2	1	103-6716	4	BOLT (M16X40)						
	3	1	102-9941	7	BOLT (M12X1.75X25-MM)						
	4	1	6I-0233	8	NUT (M12)						
M	5	1	6I-0423	1	BOLT (M12X1.75X30-MM)						
	6	1	196-0348	2	WASHER (13X23.5X2.5-MM THK)						
	7	1	266-5351	1	CABLE AS						
	8	1	166-5000	1	PLUG						
	9	1	268-3639	2	WASHER (16.5X50X3-MM THK)						
	10	1	8T-4224	1	WASHER-HARD (8.8X16X2-MM THK)						
	11	1	266-5354	2	MOUNT-FLEXIBLE						

M-METRIC PART

BASIC ENGINE

268-3640 MOUNTING GP-ENGINE & GENERATOR (contd.)

i02288978



GRAPHIC #1

<END>

g01146955

BASIC ENGINE

272-2224 PAN GP-OIL

S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY

AN ATTACHMENT

TYPE 1

SMCS-1302

i02317466

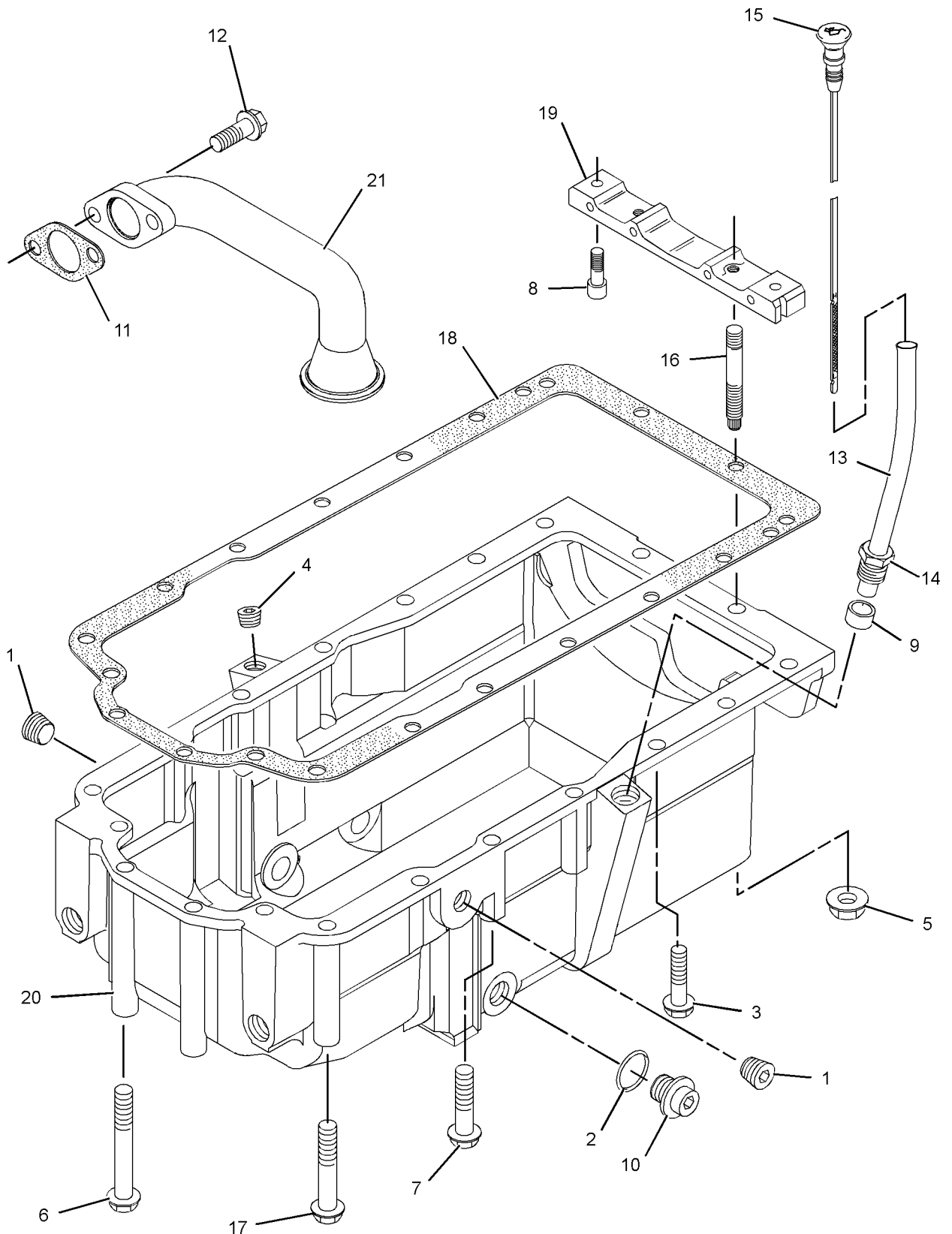
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2B-0858	2	PLUG-PIPE						
	2	1	5P-6718	2	SEAL-O-RING						
M	3	1	6I-0217	8	BOLT (M8X1.25X20-MM)						
	4	1	6I-0289	1	PLUG						
	5	1	6I-0291	2	NUT (M8X1.25-THD)						
	6	1	6I-0292	2	BOLT						
	7	1	6I-0293	4	BOLT (M8X1.25X80-MM)						
M	8	1	6I-0363	2	BOLT (M6X1X20-MM)						
	9	1	6I-1497	1	SEAL						
	10	1	7C-0351	2	PLUG-DRAIN (ENGINE OIL)						
	11	1	067-6213	1	GASKET						
M	12	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
	13	1	124-7702	1	TUBE AS						
	14	1	6I-4079	1	NUT						
	15	1	131-4291	1	GAUGE AS-OIL LEVEL (DIPSTICK) (ENGINE)						
	16	1	155-4828	2	STUD						
	17	1	220-8311	4	BOLT (M8X1.25-MM)						
	18	1	225-6005	1	GASKET						
	19	1	230-8094	1	BRIDGE						
	20	1	230-8251	1	PAN-OIL						
	21	1	272-2226	1	TUBE-OIL SUCTION						

M-METRIC PART

BASIC ENGINE

272-2224 PAN GP-OIL (contd.)

i02317466



GRAPHIC #1

<END>

g01157582

BASIC ENGINE

272-2224 PAN GP-OIL

S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY

AN ATTACHMENT

TYPE 2

SMCS-1302

i02622176

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2B-0858	2	PLUG-PIPE						
	2	1	275-9883	2	SEAL (SUMP DRAIN PLUG)						
M	3	1	6I-0217	8	BOLT (M8X1.25X20-MM)						
	4	1	6I-0289	1	PLUG						
	5	1	6I-0291	2	NUT (M8X1.25-THD)						
	6	1	6I-0292	2	BOLT						
	7	1	6I-0293	4	BOLT (M8X1.25X80-MM)						
M	8	1	6I-0363	2	BOLT (M6X1X20-MM)						
	9	1	6I-1497	1	SEAL						
	10	1	7C-0351	2	PLUG-DRAIN (ENGINE OIL)						
	11	1	067-6213	1	GASKET						
M	12	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
C	13	1	251-8336	1	TUBE AS						
	15	1	131-4291	1	GAUGE AS-OIL LEVEL (DIPSTICK) (ENGINE)						
	16	1	155-4828	2	STUD						
	17	1	220-8311	4	BOLT (M8X1.25-MM)						
	18	1	225-6005	1	GASKET						
	19	1	230-8094	1	BRIDGE						
	20	1	230-8251	1	PAN-OIL (ENGINE)						
	21	1	272-2226	1	TUBE-OIL SUCTION						

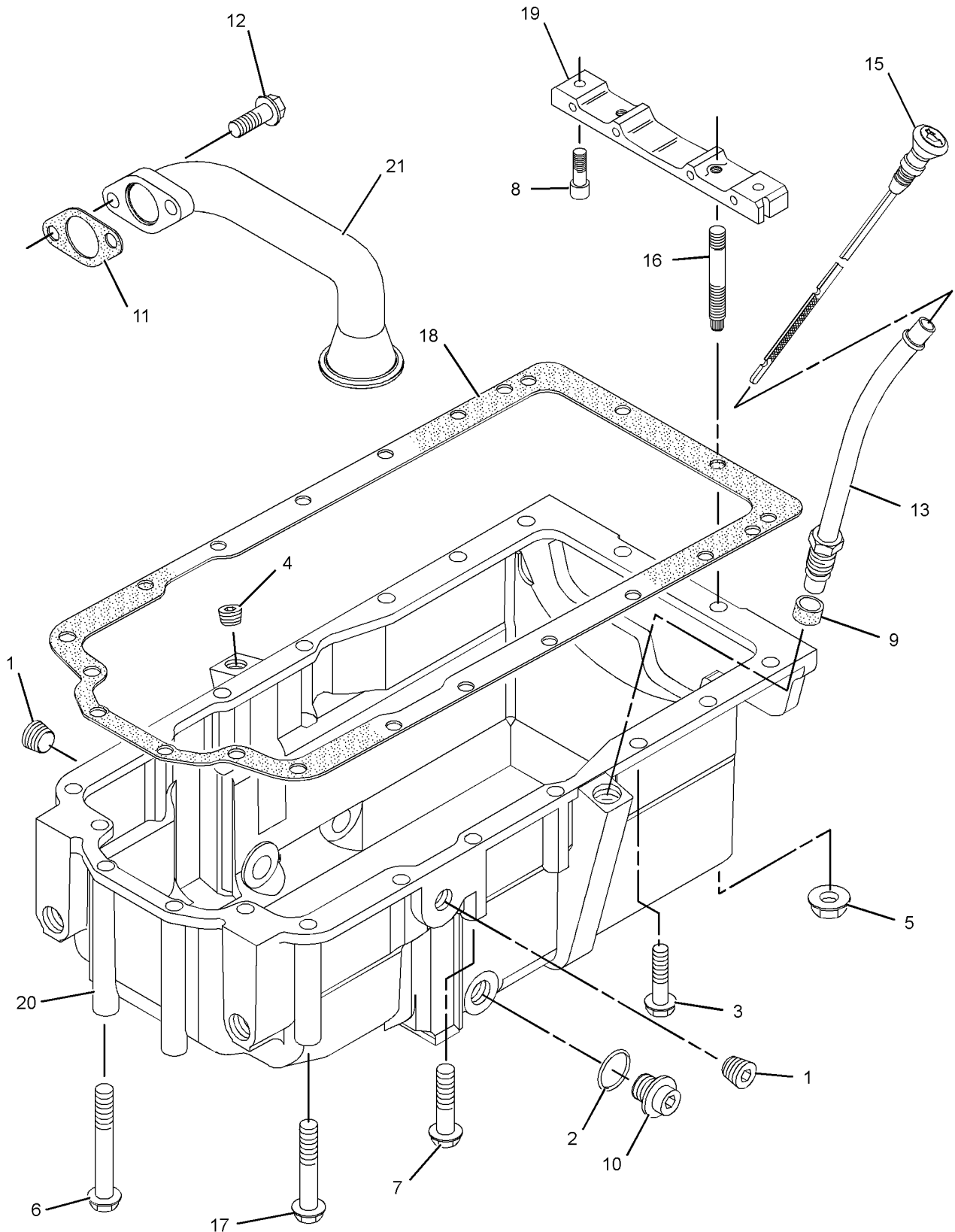
C-CHANGE FROM PREVIOUS TYPE

M-METRIC PART

BASIC ENGINE

272-2224 PAN GP-OIL (contd.)

i02622176



GRAPHIC #1

<END>

g01300831

BASIC ENGINE

232-7442 PISTON & ROD GP

S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1225

i02317974

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	225-5437	4	PISTON AS						
					(EACH INCLUDES)						
	2	1	124-3536	2	RING-RETAINING						
	3	1	225-5436	1	KIT-PISTON RING						
BJ	4	1	225-5441	4	ROD AS-CONNECTING (LENGTH L)						
					-OR-						
BJ		1	225-5451	4	ROD AS-CONNECTING (LENGTH K)						
					-OR-						
BJ		1	225-5453	4	ROD AS-CONNECTING (LENGTH J)						
					-OR-						
BJ		1	225-5454	4	ROD AS-CONNECTING (LENGTH H)						
					-OR-						
BJ		1	225-5458	4	ROD AS-CONNECTING (LENGTH G)						
					-OR-						
BJ		1	225-5459	4	ROD AS-CONNECTING (LENGTH F)						
					(EACH ROD AS INCLUDES)						
	5	1	225-5438	1	BUSHING						
	6	1	225-5439	2	BOLT						

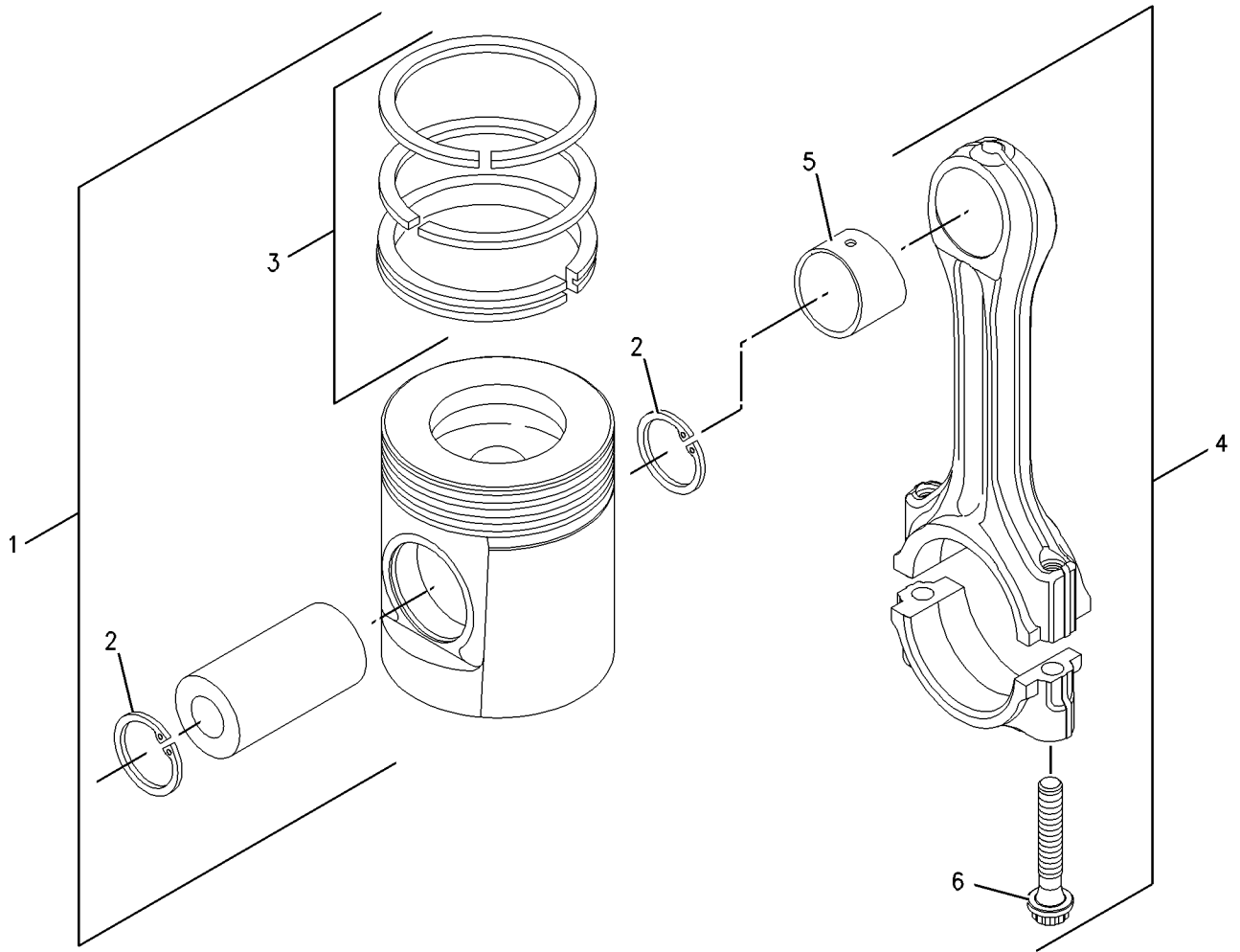
B-USE AS REQUIRED

J-ENSURE THAT CORRECT ROD LENGTH IS FITTED

BASIC ENGINE

232-7442 PISTON & ROD GP (contd.)

i02317974



GRAPHIC #1

<END>

g00909669

BASIC ENGINE

233-7233 PISTON & ROD GP

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1225

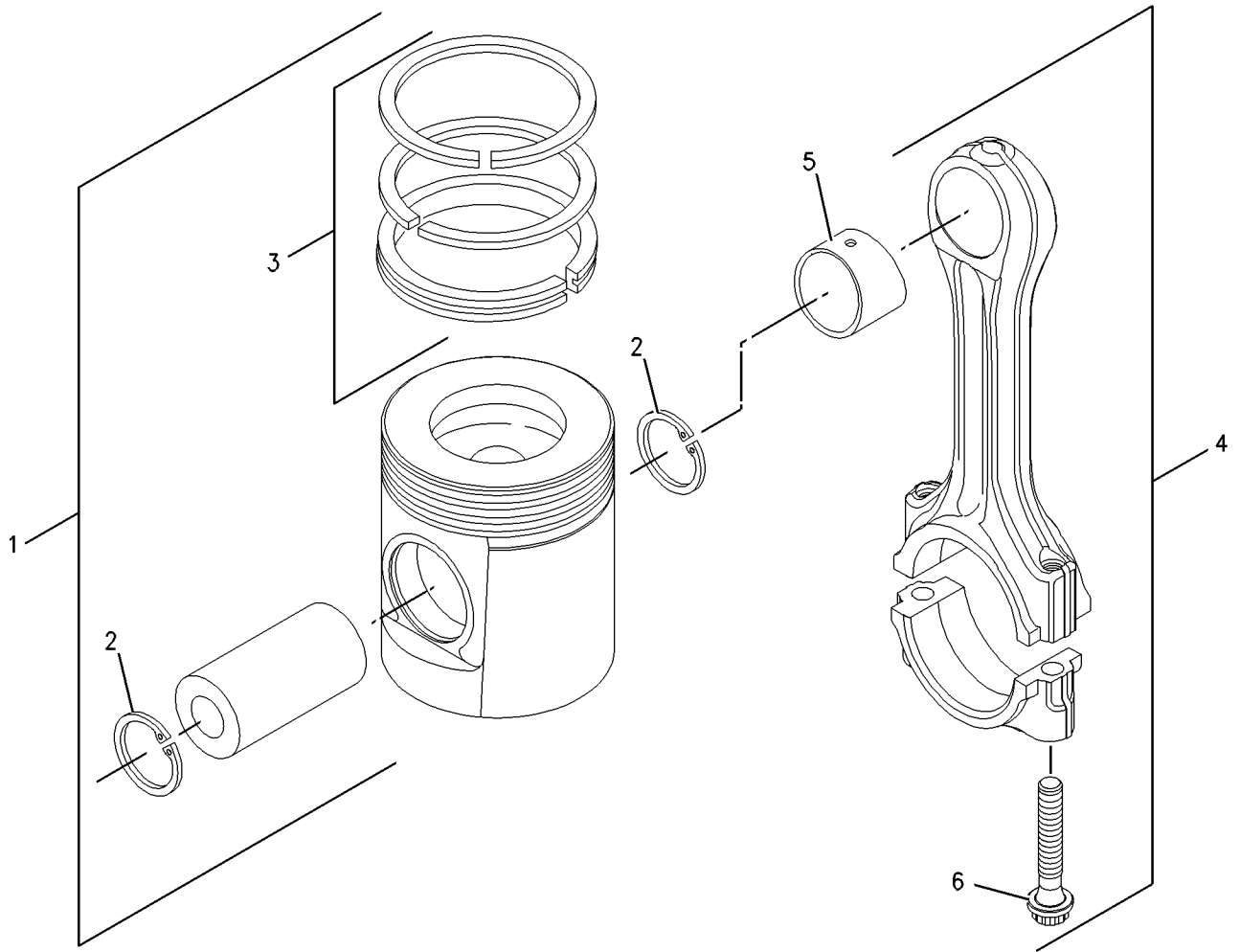
i02463021

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	233-7232	4	PISTON AS						
					(EACH PISTON AS INCLUDES)						
	2	1	124-3536	2	RING-RETAINING						
	3	1	233-7231	1	RING GP-PISTON						
BJ	4	1	225-5441	4	ROD AS-CONNECTING (LENGTH L)						
					-OR-						
BJ		1	225-5451	4	ROD AS-CONNECTING (LENGTH K)						
					-OR-						
BJ		1	225-5453	4	ROD AS-CONNECTING (LENGTH J)						
					-OR-						
BJ		1	225-5454	4	ROD AS-CONNECTING (LENGTH H)						
					-OR-						
BJ		1	225-5458	4	ROD AS-CONNECTING (LENGTH G)						
					-OR-						
BJ		1	225-5459	4	ROD AS-CONNECTING (LENGTH F)						
					(EACH ROD AS INCLUDES)						
	5	1	225-5438	1	BUSHING						
	6	1	225-5439	2	BOLT						
B-USE AS REQUIRED											
J-ENSURE THAT CORRECT ROD LENGTH IS FITTED											

BASIC ENGINE

233-7233 PISTON & ROD GP (contd.)

i02463021



GRAPHIC #1

<END>

g00909669

BASIC ENGINE

225-4317 PLUG GP-ENGINE

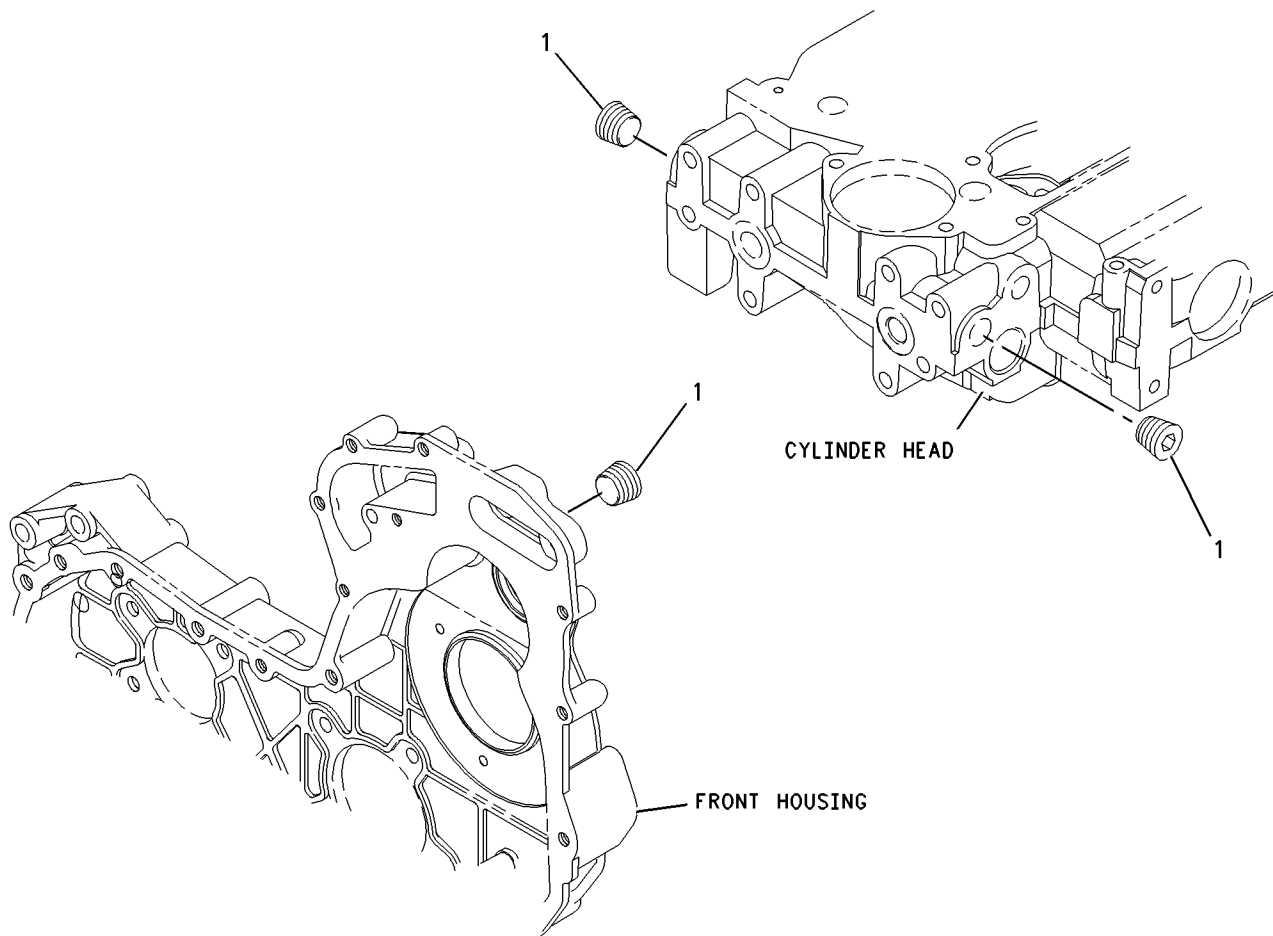
S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1100

i02317966

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2B-0858	3	PLUG-PIPE						



GRAPHIC #1

<END>

g00911937

BASIC ENGINE

232-6204 PLUG GP-ENGINE

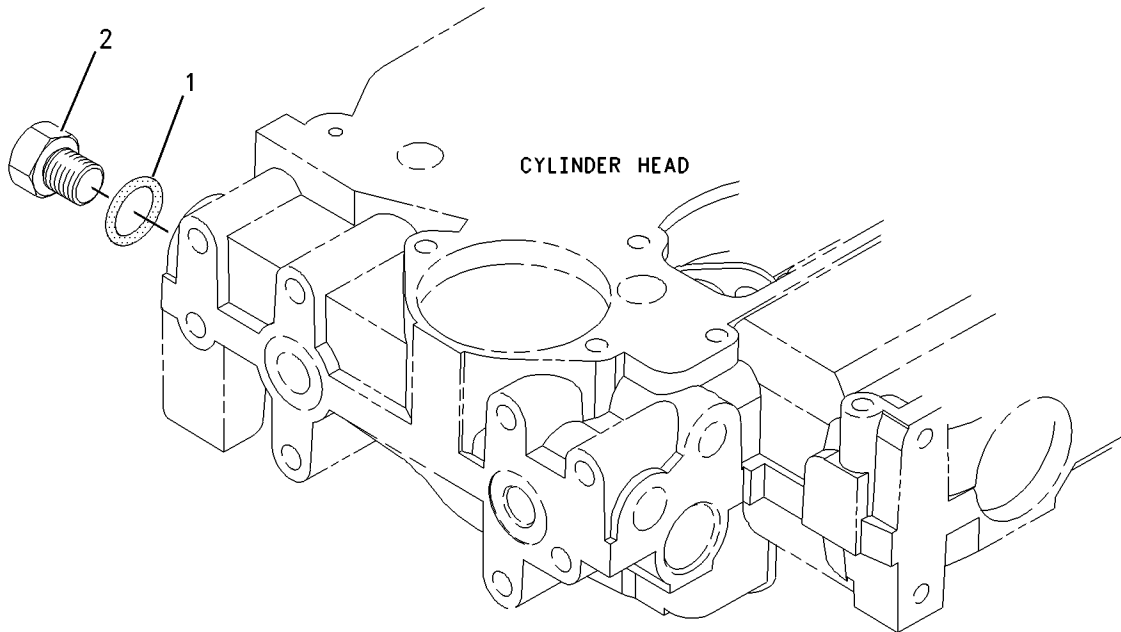
S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1100

i02317968

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	199-9751	1	SEAL-O-RING						
	2	1	232-1322	1	PLUG						



GRAPHIC #1

<END>

g00950934

BASIC ENGINE

253-2479 PLUG GP-ENGINE

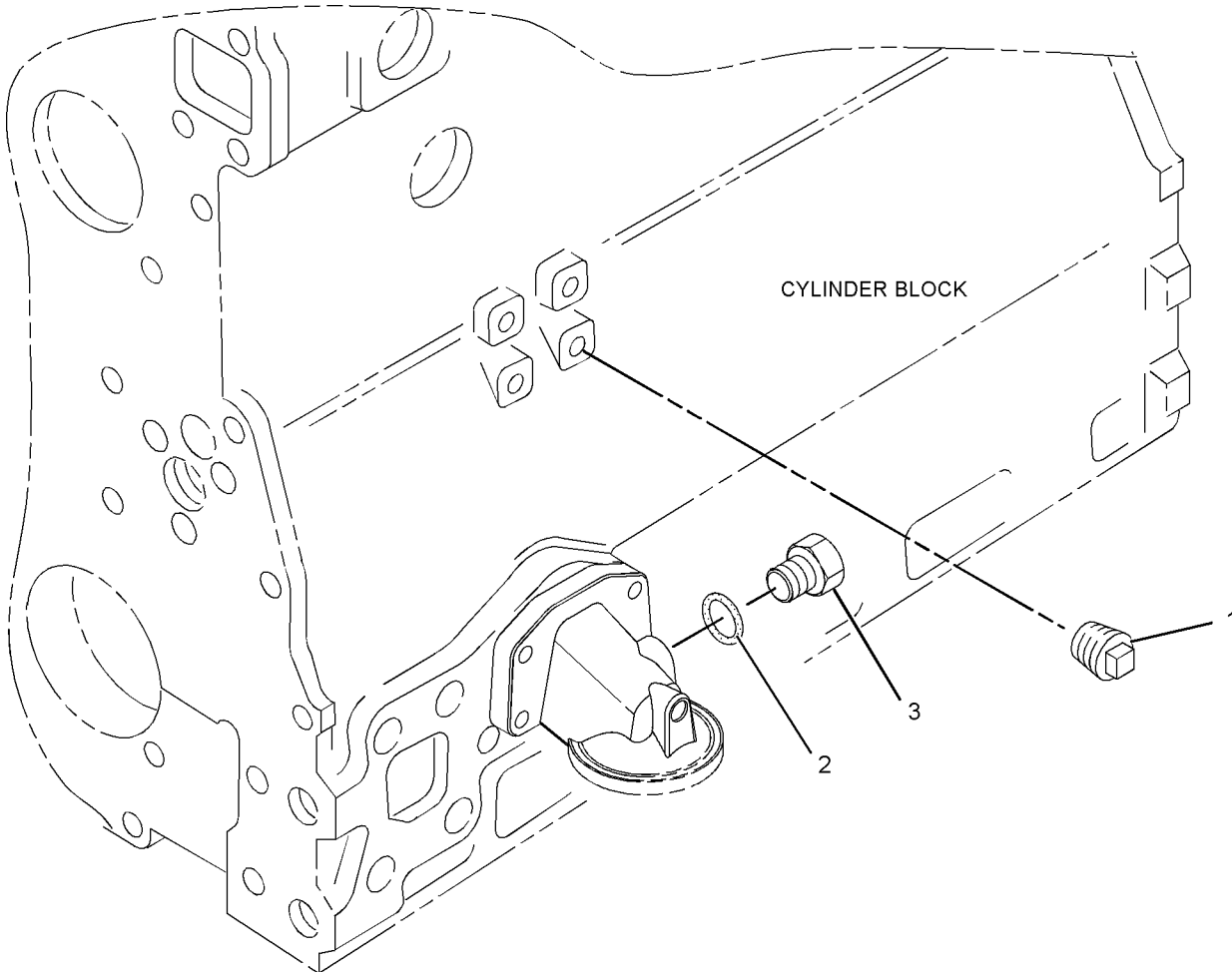
S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1100

i02317488

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	035-8063	1	PLUG						
	2	1	199-9267	1	SEAL-O-RING						
	3	1	232-3861	1	PLUG (BLANKING)						



GRAPHIC #1

<END>

g01079757

BASIC ENGINE

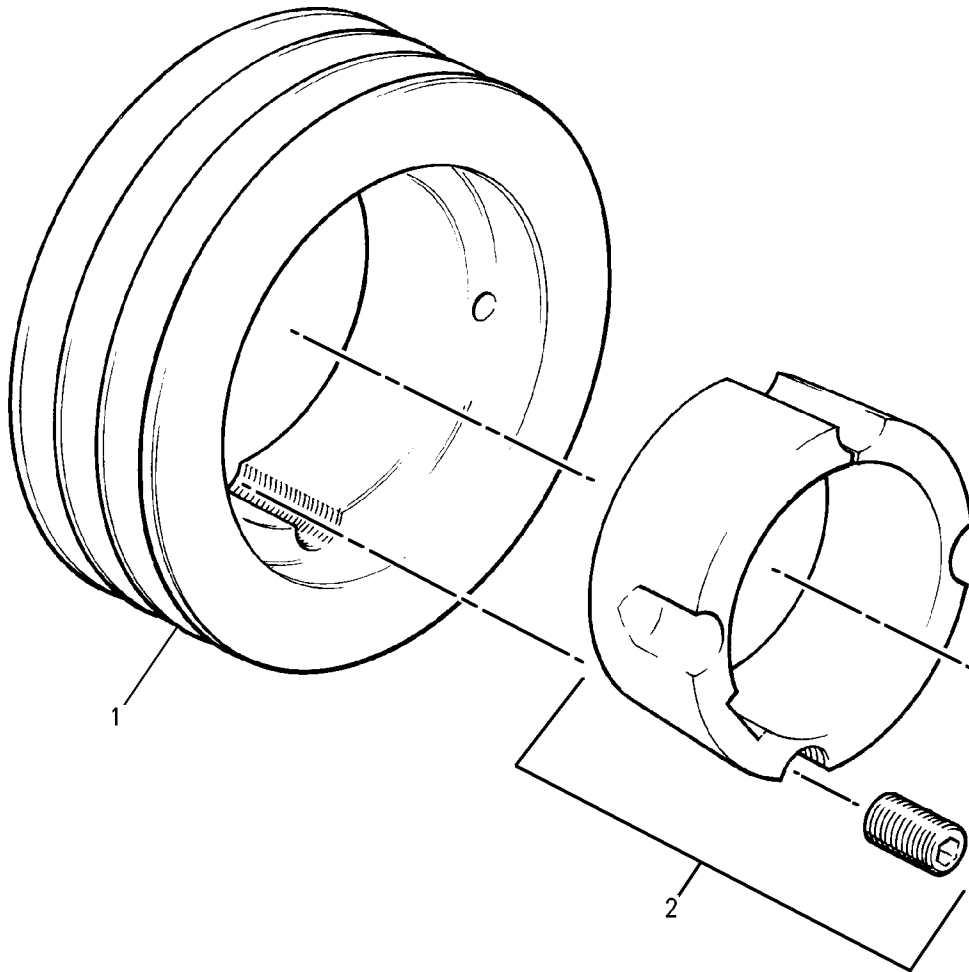
198-4119 PULLEY GP

S/N: L1K1-UP; S1M1-UP
 3-GROOVE, 5-INCH PULLEY WITH A LOCK BUSHING
 AN ATTACHMENT

SMCS-1205, 1359, 1384, 1425

i02312670

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-4656	1	PULLEY (3-GROOVE)						
	2	1	195-4657	1	BUSHING AS						



GRAPHIC #1

<END>

g00748016

BASIC ENGINE

230-7352 PULLEY GP-CRANKSHAFT

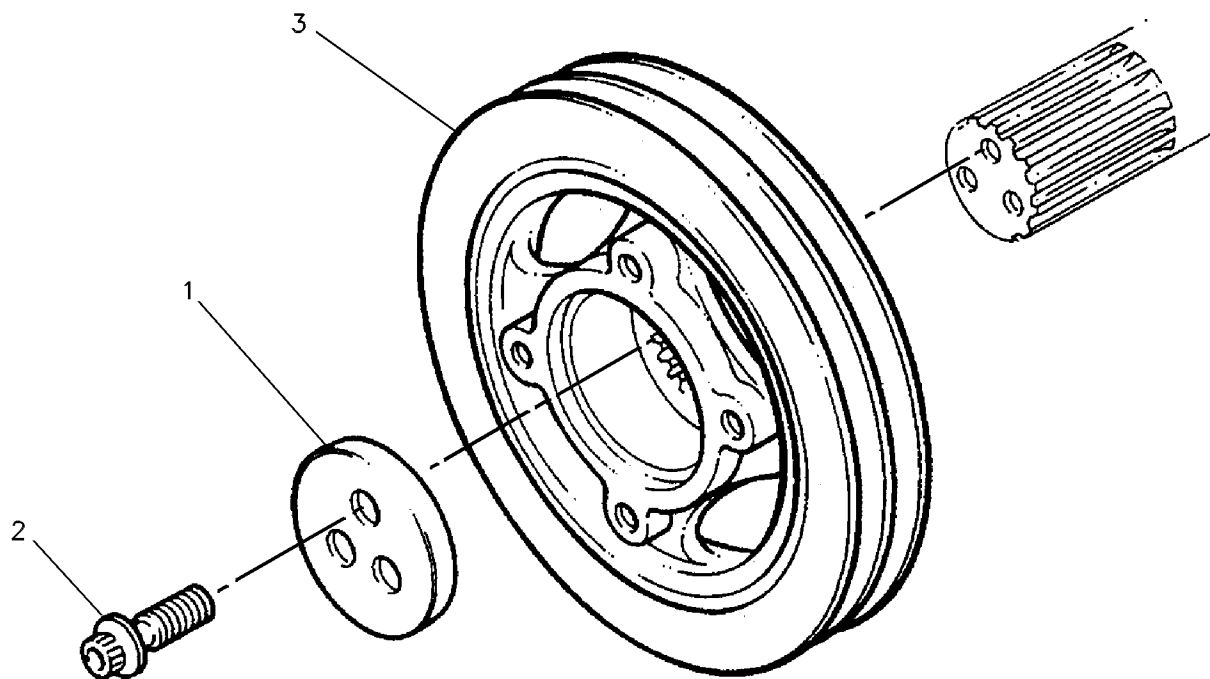
S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1205

i02317463

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0501	1	BLOCK						
	2	1	7W-4634	3	BOLT (7/16-20X1.5-IN)						
	3	1	111-3297	1	PULLEY						



GRAPHIC #1

<END>

g00658339

BASIC ENGINE

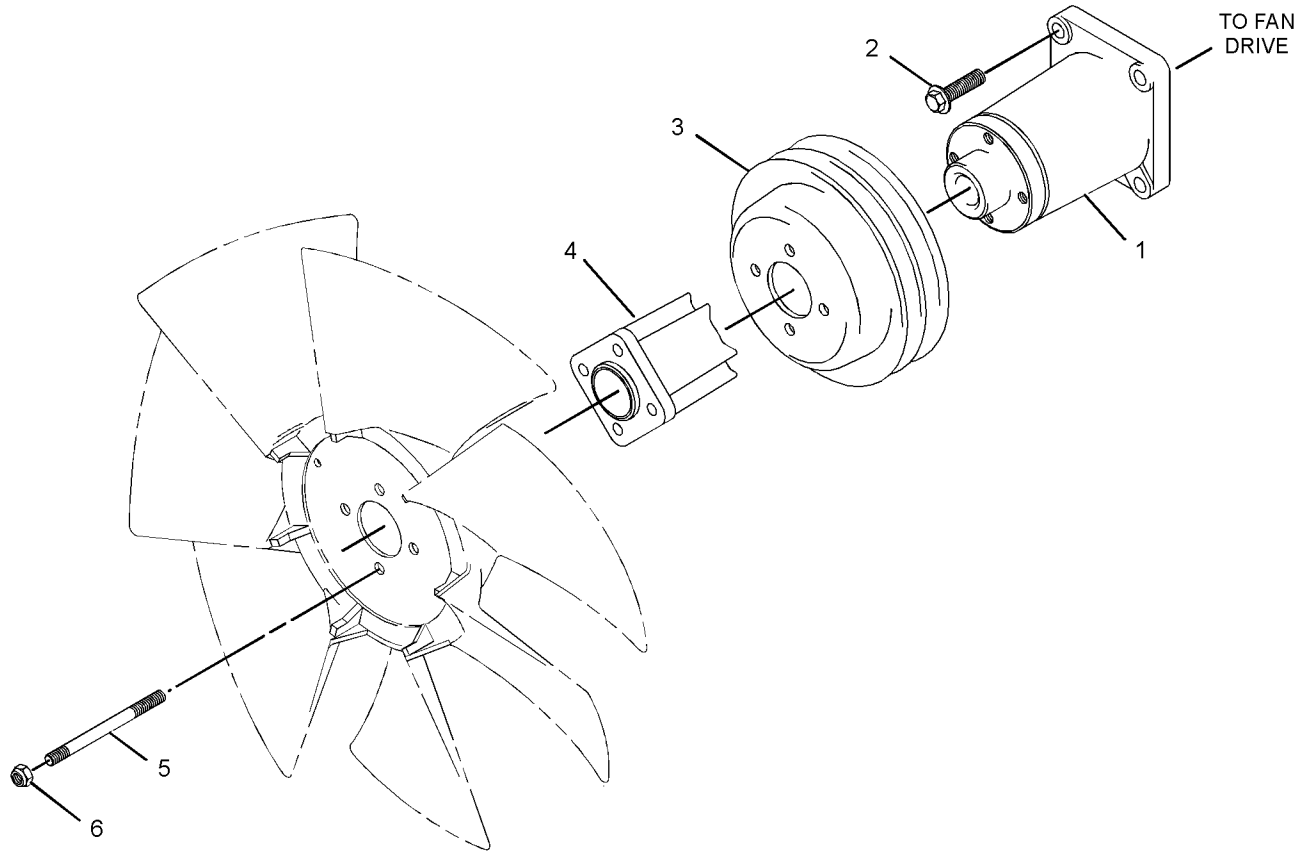
291-4645 PULLEY GP-FAN DRIVE

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1359

i02540700

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	230-8065	1	HOUSING AS						
	2	1	111-0859	4	BOLT (M10X1.5X35-MM)						
	3	1	130-3879	1	PULLEY-FAN DRIVE						
	4	1	135-6363	1	EXTENSION-FAN						
	5	1	135-6362	4	STUD						
	6	1	113-6349	4	NUT (M12-1.75X93-MM-THD)						



GRAPHIC #1

<END>

g01274016

BASIC ENGINE

210-6507 SHAFT GP-STUB

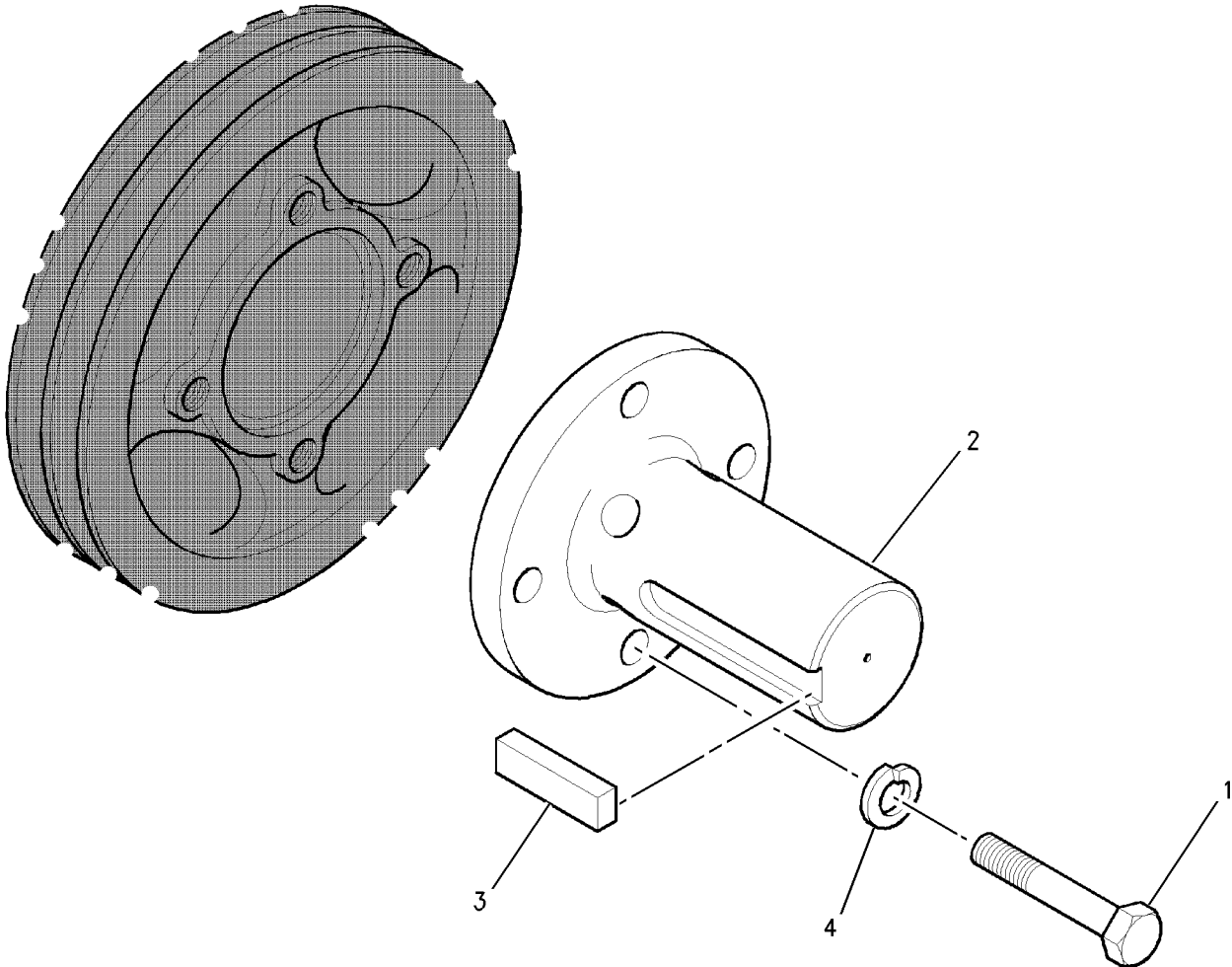
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1237

i02312955

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	089-7722	4	BOLT (7/16X1.1/4-IN)						
	2	1	204-7519	1	SHAFT-STUB						
	3	1	204-7521	1	KEY						
	4	1	3E-4988	4	LOCKWASHER						

M-METRIC PART



GRAPHIC #1

<END>

g00850918

BASIC ENGINE

4N-8771 V-BELT SET—INCLUDES 2-BELTS

S/N: L1K1-UP; S1M1-UP

1359 MM (53.5 IN) LG

AN ATTACHMENT

SMCS-1357

i02586941

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

BASIC ENGINE

232-7526 VALVE MECHANISM GP

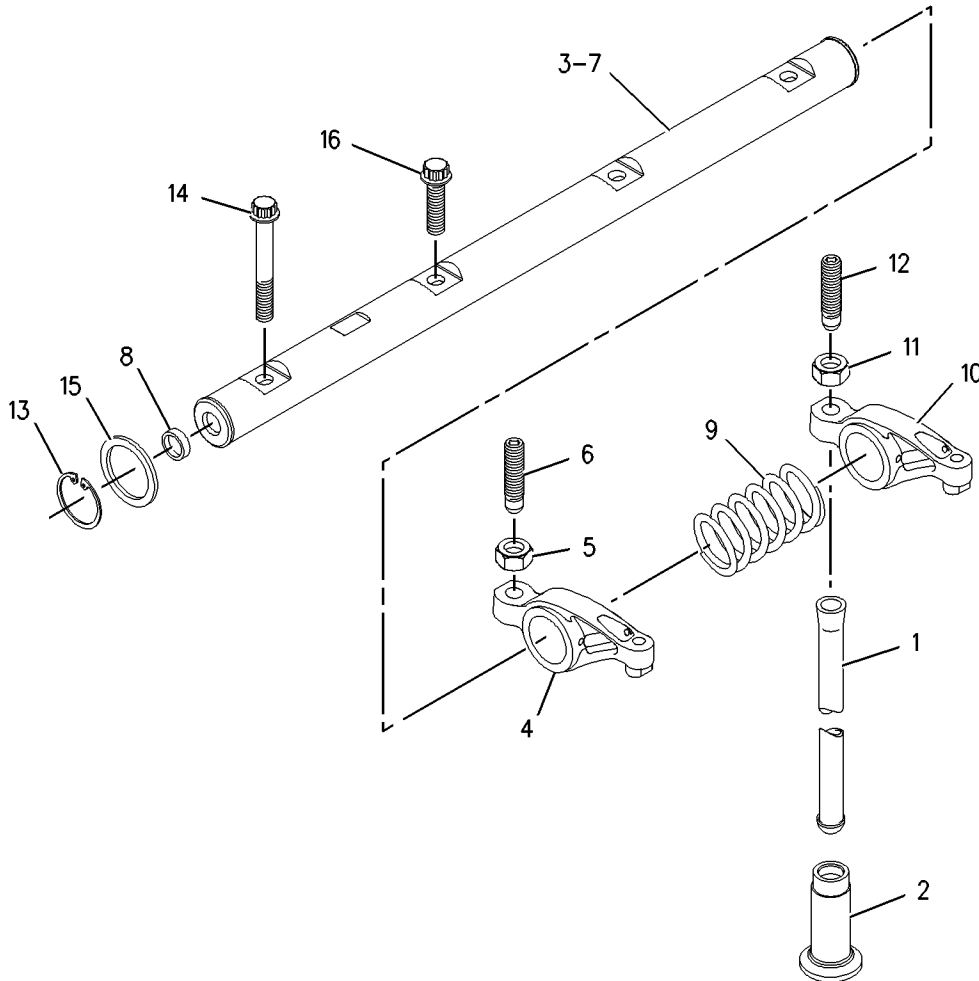
S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1102, 1121, 1123

i02317981

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	067-6095	8	ROD						
	2	1	138-2053	8	TAPPET						
	3	1	225-5963	1	ROCKER ARM AS						
	4	1	225-5625	4	LEVER AS						
					(EACH INCLUDES)						
	5	1	5B-9079	1	NUT-JAM (3/8-24-THD)						
	6	1	185-1546	1	SCREW						
	7	1	225-5634	1	SHAFT AS						
	8	1	225-5629	2	PLUG						
	9	1	225-5638	3	SPRING						
	10	1	225-5640	4	LEVER AS						
					(EACH INCLUDES)						
	11	1	5B-9079	1	NUT-JAM (3/8-24-THD)						
	12	1	185-1546	1	SCREW						
	13	1	225-5959	2	CLIP						
	14	1	225-5960	1	BOLT (M8X1.25X60-MM)						
	15	1	225-5961	2	WASHER (26.7X34.32X0.38-MM THK)						
	16	1	225-5962	3	BOLT (M8X1.25X30-MM)						



GRAPHIC #1

<END>

g00910253

BASIC ENGINE

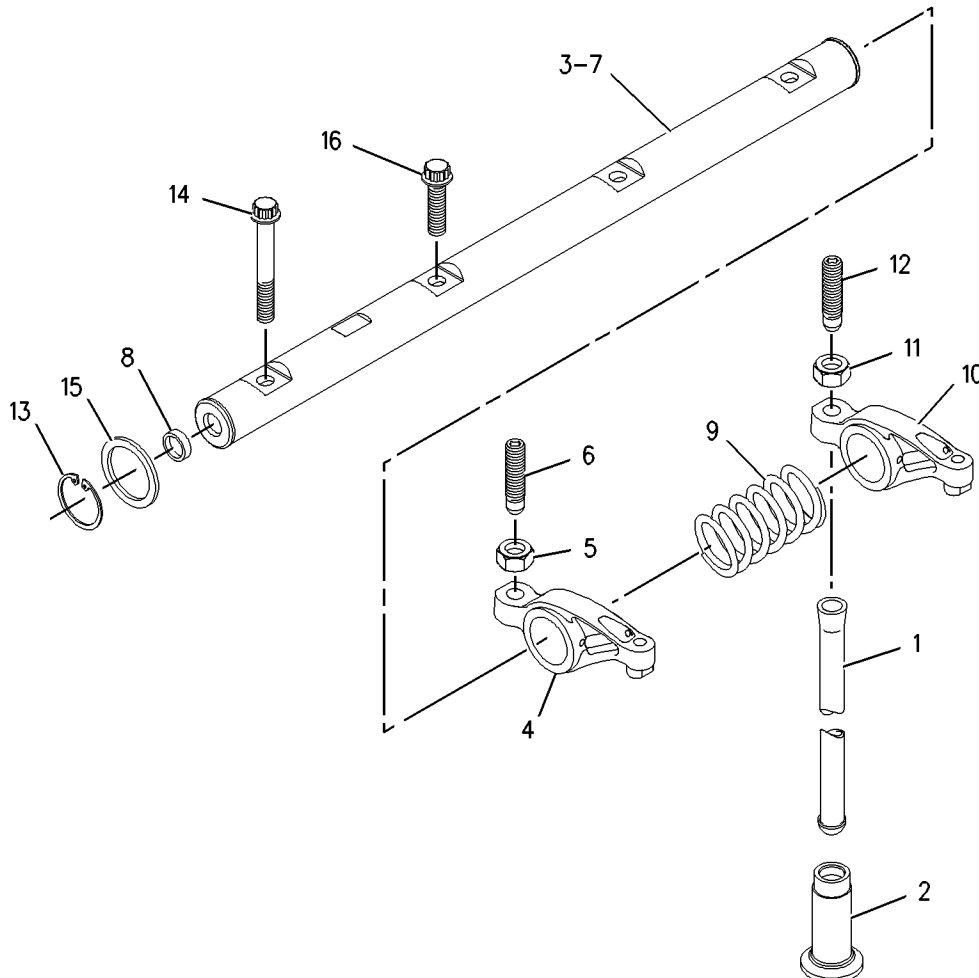
233-7235 VALVE MECHANISM GP

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1102, 1121, 1123

i02316396

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	067-6095	8	ROD						
	2	1	138-2053	8	TAPPET						
	3	1	225-5963	1	ROCKER ARM AS						
	4	1	225-5625	4	LEVER AS						
					(EACH INCLUDES)						
	5	1	5B-9079	1	NUT-JAM (3/8-24-THD)						
	6	1	185-1546	1	SCREW						
	7	1	225-5634	1	SHAFT AS						
	8	1	225-5629	2	PLUG						
	9	1	225-5638	3	SPRING						
	10	1	225-5640	4	LEVER AS						
					(EACH INCLUDES)						
	11	1	5B-9079	1	NUT-JAM (3/8-24-THD)						
	12	1	185-1546	1	SCREW						
	13	1	225-5959	2	CLIP						
	14	1	225-5960	1	BOLT (M8X1.25X60-MM)						
	15	1	225-5961	2	WASHER (26.7X34.32X0.38-MM THK)						
	16	1	225-5962	3	BOLT (M8X1.25X30-MM)						



GRAPHIC #1

<END>

g00910253

LUBRICATION SYSTEM

268-8625 BREATHER GP-CRANKCASE

S/N: S1M1-UP

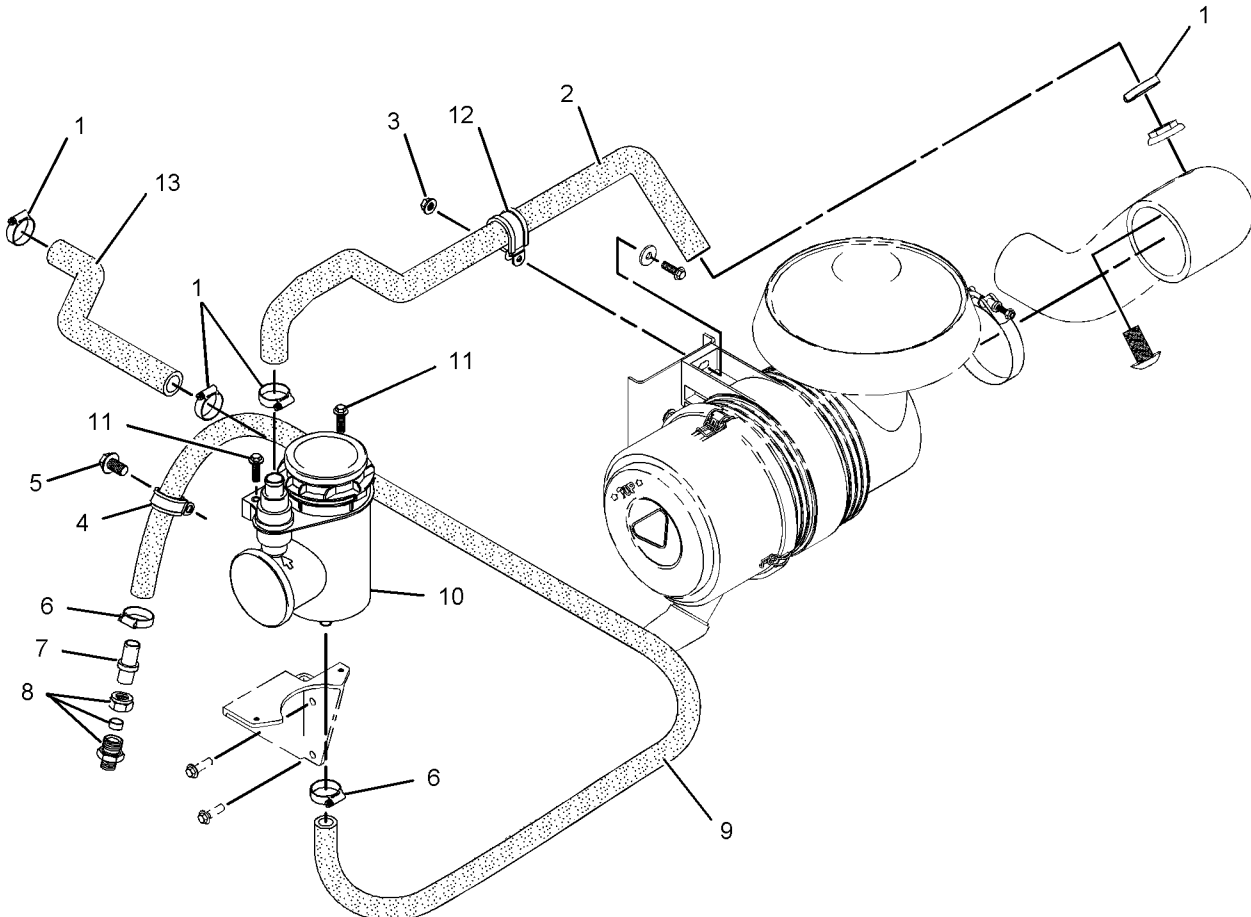
**CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES, NATURALLY
ASPIRATED ENGINES
AN ATTACHMENT**

SMCS-1317

i02623663

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5141	4	CLAMP-HOSE						
	2	1	268-8623	1	HOSE						
	3	1	6I-0291	1	NUT (M8X1.25-THD)						
	4	1	1S-0994	1	CLIP						
	5	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	6	1	230-5811	2	CLAMP-HOSE						
	7	1	216-9618	1	VALVE-CHECK						
	8	1	264-8914	1	ADAPTER						
E	9	1	268-6427		HOSE (100-CM)						
	10	1	262-1044	1	BREATHER AS (CRANKCASE)						
		1	229-3555	1	FILTER-BREATHER (CLOSED CIRCUIT CRANKCASE)						
		1	262-1046	1	SEAL-O-RING (CRANKCASE BREATHER)						
	11	1	112-7704	2	BOLT						
	12	1	193-5192	1	CLIP						
	13	1	268-8624	1	HOSE						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01147881

LUBRICATION SYSTEM

292-8529 BREATHER GP-CRANKCASE

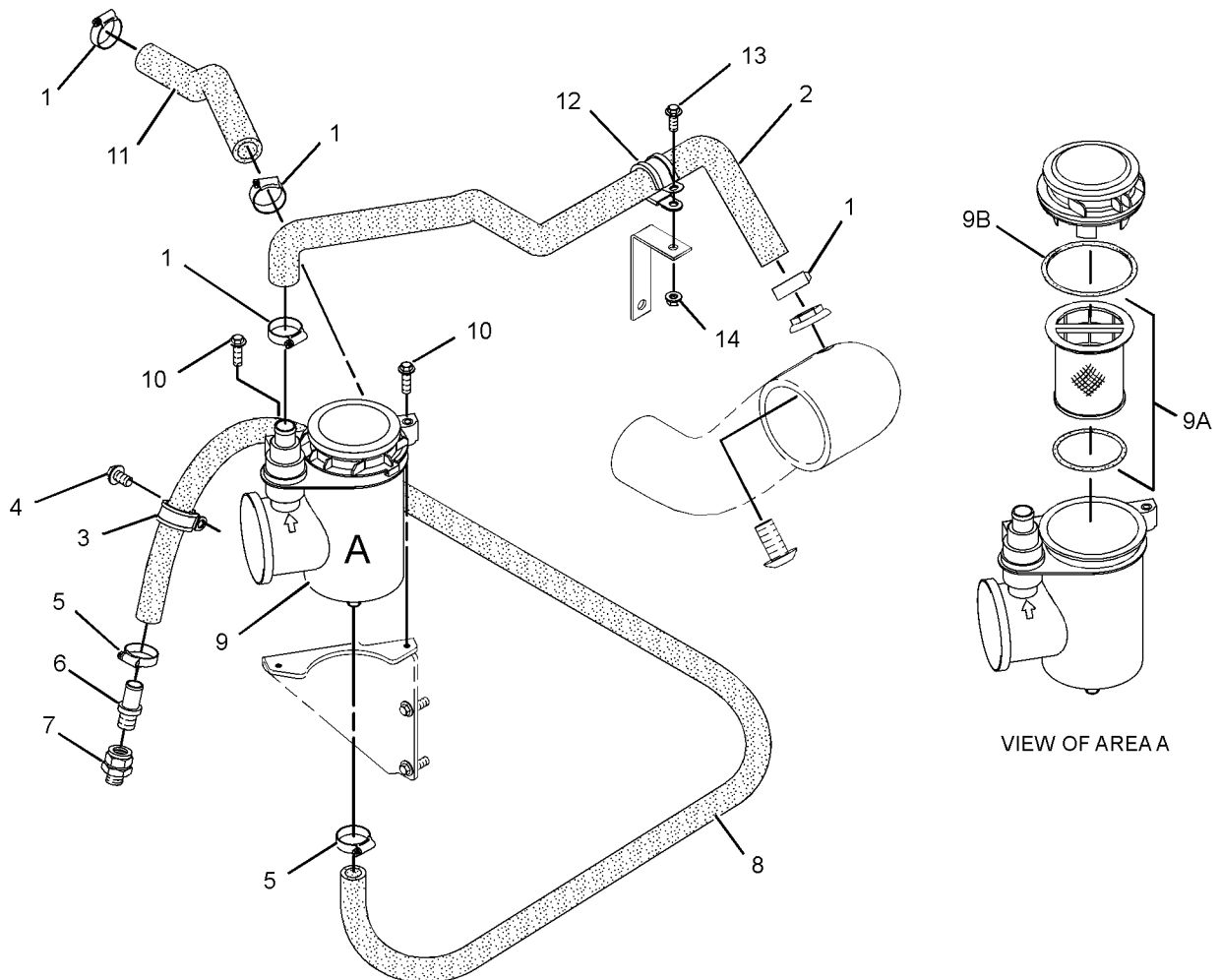
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1317

i02623667

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5141	4	CLAMP-HOSE						
	2	1	292-8530	1	HOSE (CRANKCASE BREATHER)						
	3	1	1S-0994	1	CLIP						
	4	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	5	1	230-5811	2	CLAMP-HOSE						
	6	1	216-9618	1	VALVE-CHECK						
	7	1	264-8914	1	ADAPTER						
E	8	1	268-6427		HOSE (100-CM) (CRANKCASE BREATHER LOWER)						
	9	1	262-1044	1	BREATHER AS (CRANKCASE)						
	9A	1	229-3555	1	FILTER-BREATHER (CLOSED CIRCUIT CRANKCASE)						
	9B	1	262-1046	1	SEAL-O-RING (CRANKCASE BREATHER)						
	10	1	112-7704	2	BOLT						
	11	1	292-8532	1	HOSE (CRANKCASE BREATHER UPPER)						
	12	1	193-5192	1	CLIP						
M	13	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
	14	1	6I-0291	1	NUT (M8X1.25-THD)						

E-ORDER BY THE CENTIMETER
M-METRIC PART



VIEW OF AREA A

GRAPHIC #1

<END>

g01291240

LUBRICATION SYSTEM

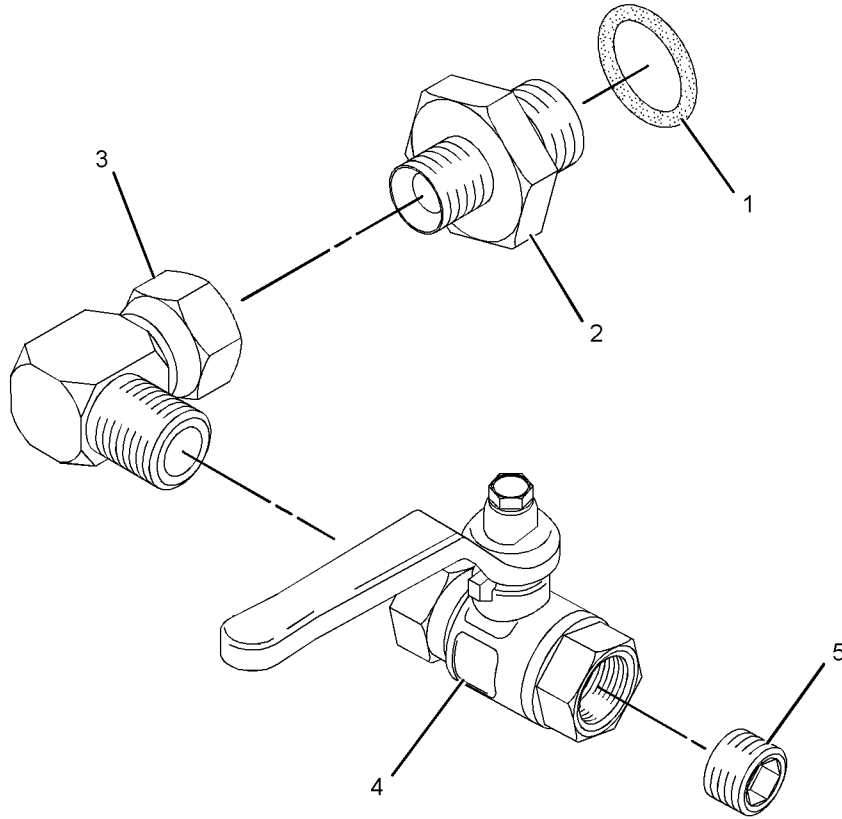
267-2529 DRAIN GP-OIL-ENGINE

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1372

i02288884

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	194-7158	1	SEAL-O-RING						
	2	1	193-5101	1	ADAPTER (3/8X3/4)						
	3	1	234-2489	1	ADAPTER						
	4	1	195-4644	1	VALVE GP-MANUAL						
	5	1	7M-7410	1	PLUG-PIPE						



GRAPHIC #1

<END>

g01148047

LUBRICATION SYSTEM

272-2229 FILTER GP-ENGINE OIL

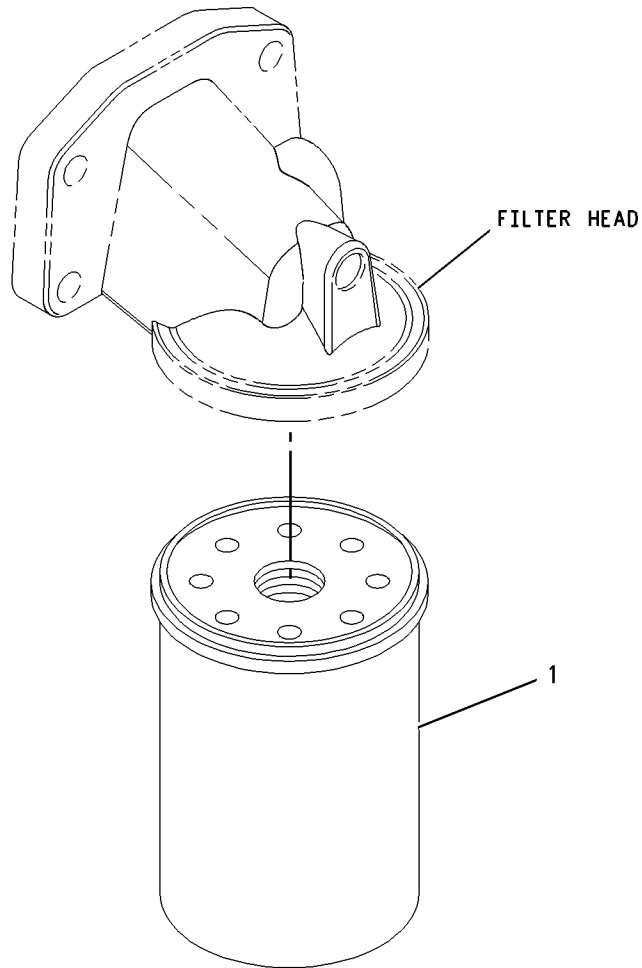
S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1306, 1308

i02317467

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-2326	1	FILTER AS-ENGINE OIL						



GRAPHIC #1

<END>

g00950898

LUBRICATION SYSTEM

288-4113 FILTER GP-ENGINE OIL

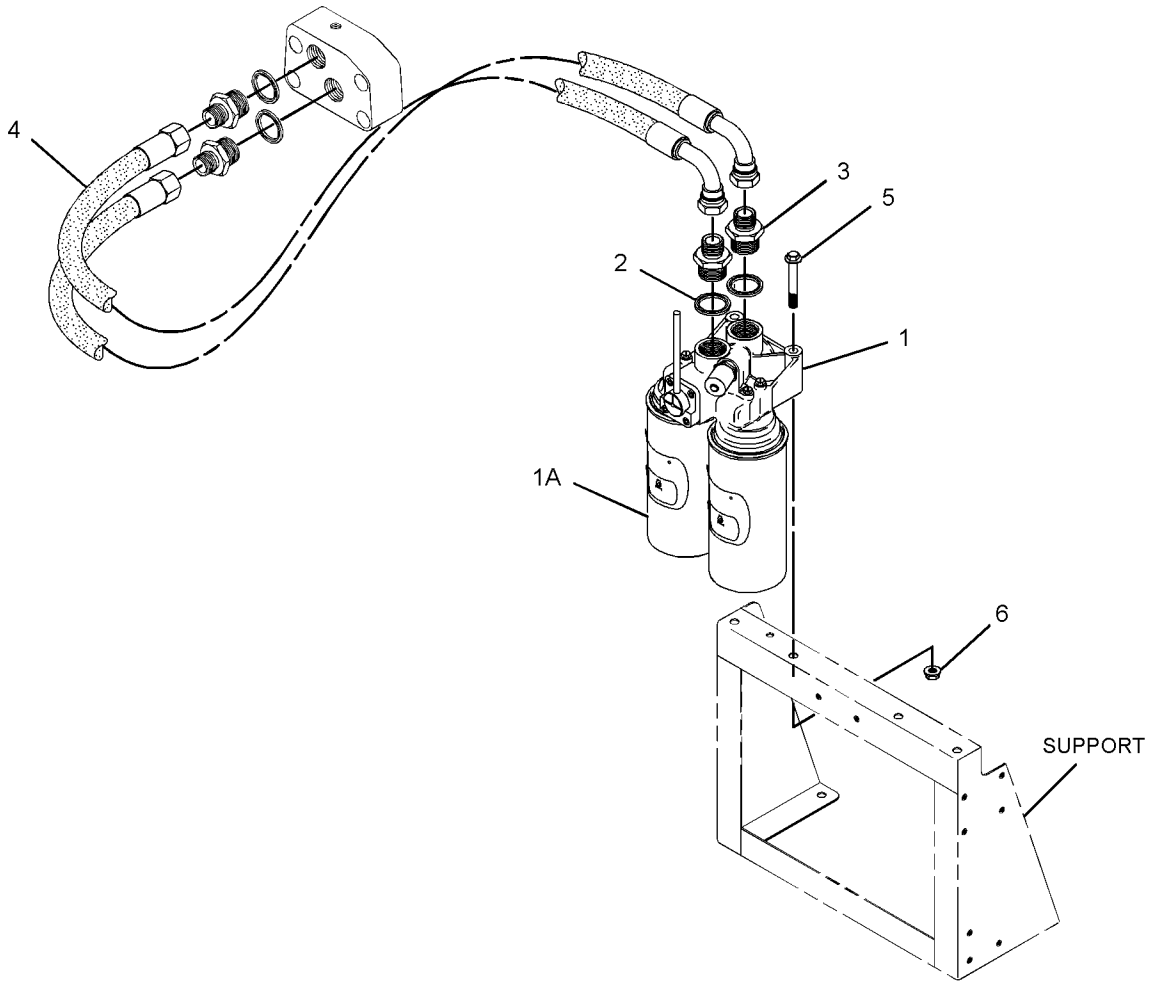
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1306, 1308

i02614846

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	288-4110	1	FILTER AS-OIL (ENGINE)						
	1A	1	081-4661	2	FILTER (ENGINE OIL)						
	2	1	6V-0409	2	SEAL-BONDED (33.89-MM ID)						
	3	1	288-4111	2	ADAPTER						
	4	1	288-4112	2	HOSE AS						
M	5	1	6I-0454	2	BOLT (M10X1.5X70-MM)						
	6	1	6I-0594	2	NUT (M10X1.15-THD)						

M-METRIC PART



GRAPHIC #1

<END>

g01273830

LUBRICATION SYSTEM

271-9995 LINES GP-ENGINE OIL

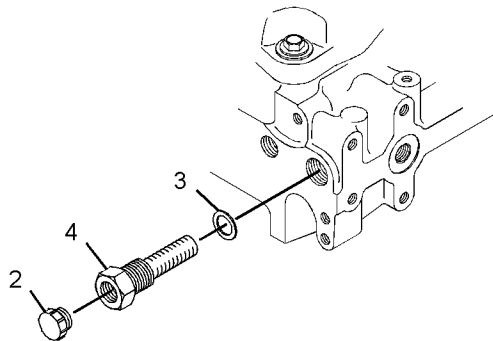
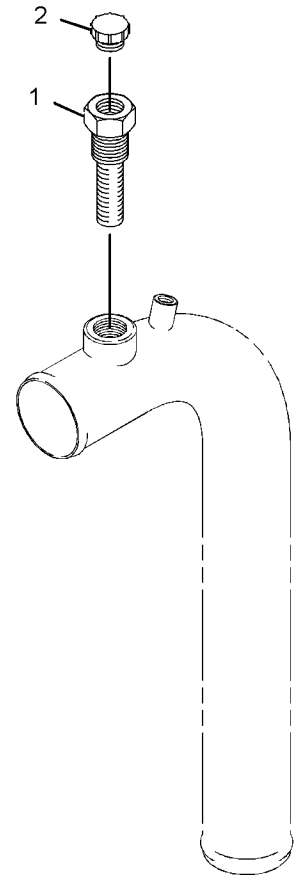
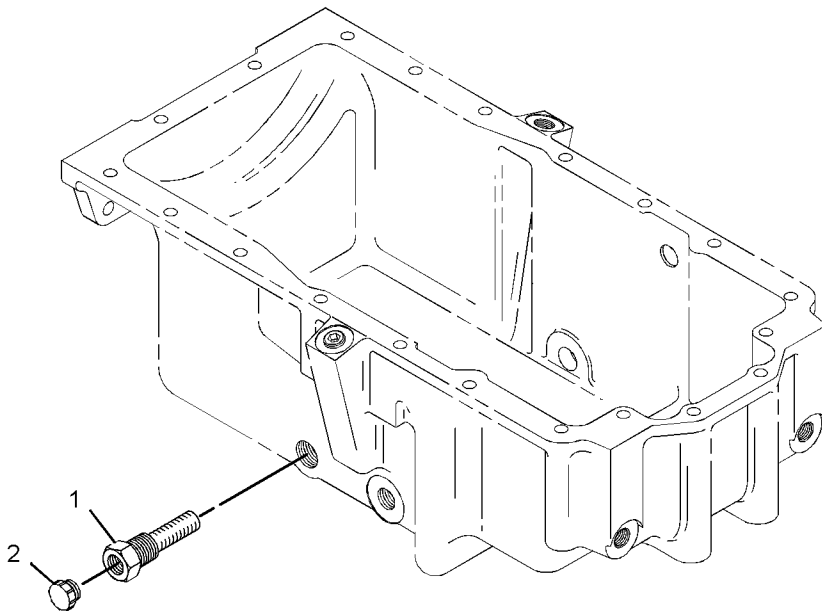
S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES ONLY. CANNOT BE USED WITH HEAT EXCHANGER
COOLED ENGINES
AN ATTACHMENT

SMCS-1307

i02306161

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	237-4092	2	TUBE						
	2	1	238-1783	3	CAP						
	3	1	236-6056	1	WASHER (M18)						
	4	1	271-9994	1	TUBE						



GRAPHIC #1

<END>

g01156771

LUBRICATION SYSTEM

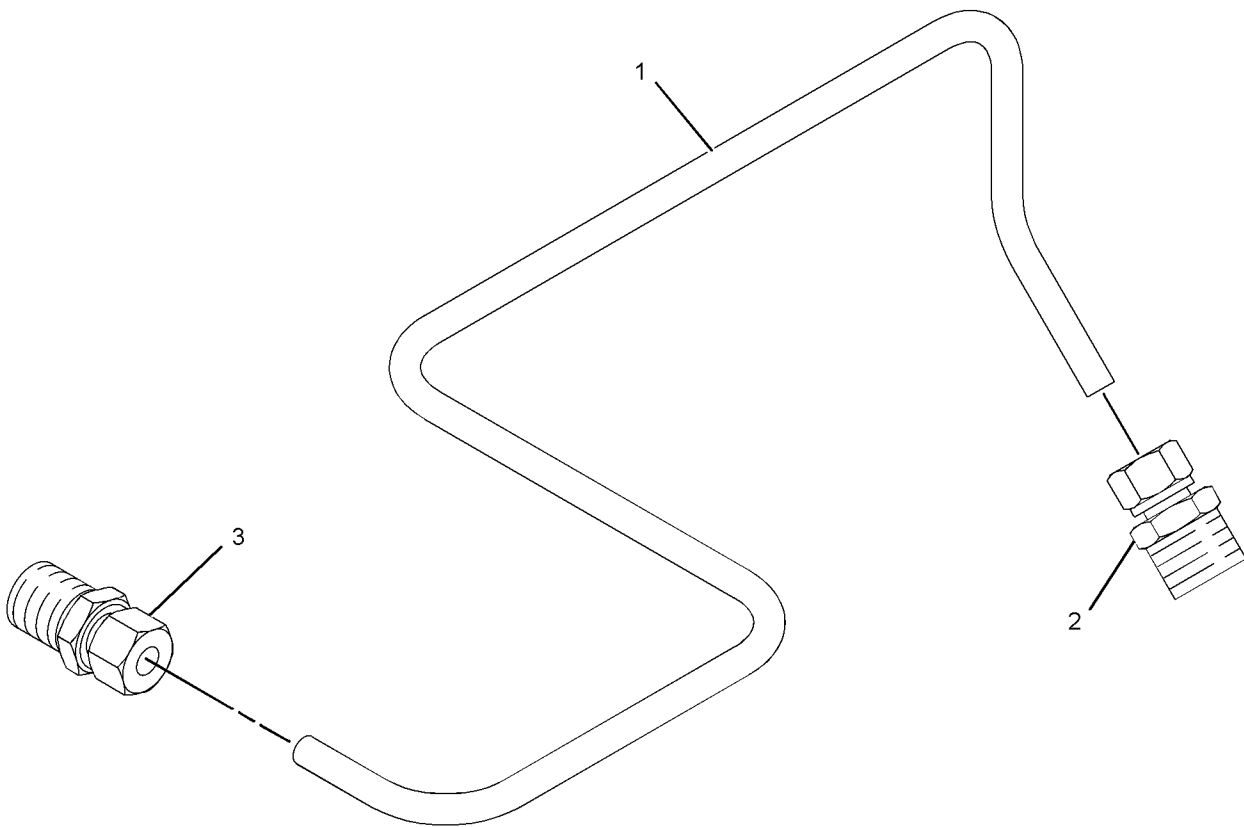
293-4297 LINES GP-OIL-ENGINE

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1307

i02544910

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	281-1277	1	TUBE						
	2	1	281-0574	1	ADAPTER						
	3	1	281-1278	1	ADAPTER						



GRAPHIC #1

<END>

g01276087

LUBRICATION SYSTEM

230-7578 PUMP GP-ENGINE OIL

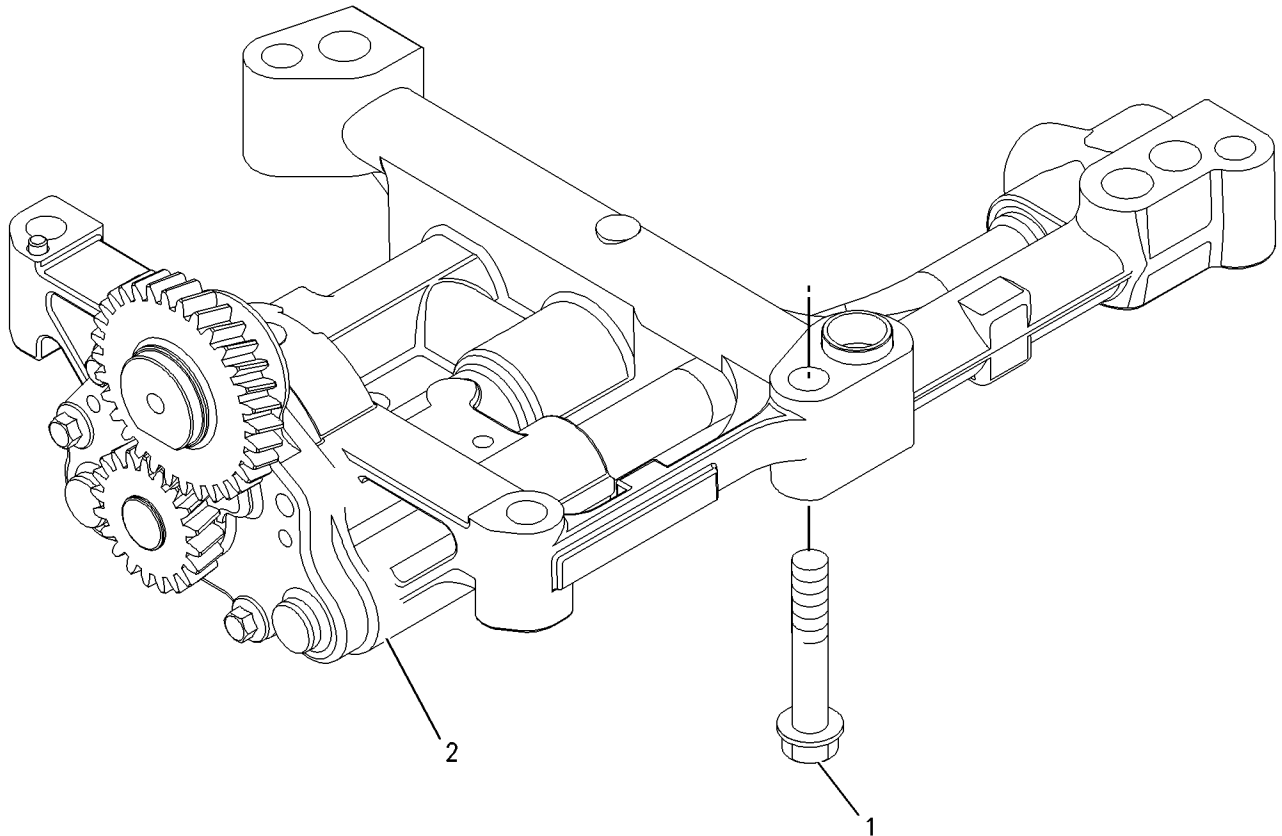
S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1304, 1315

i02317468

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	100-4461	5	BOLT (M10X50-MM)						
	2	1	225-8329	1	PUMP AS-ENGINE OIL						



GRAPHIC #1

<END>

g00911993

COOLING SYSTEM

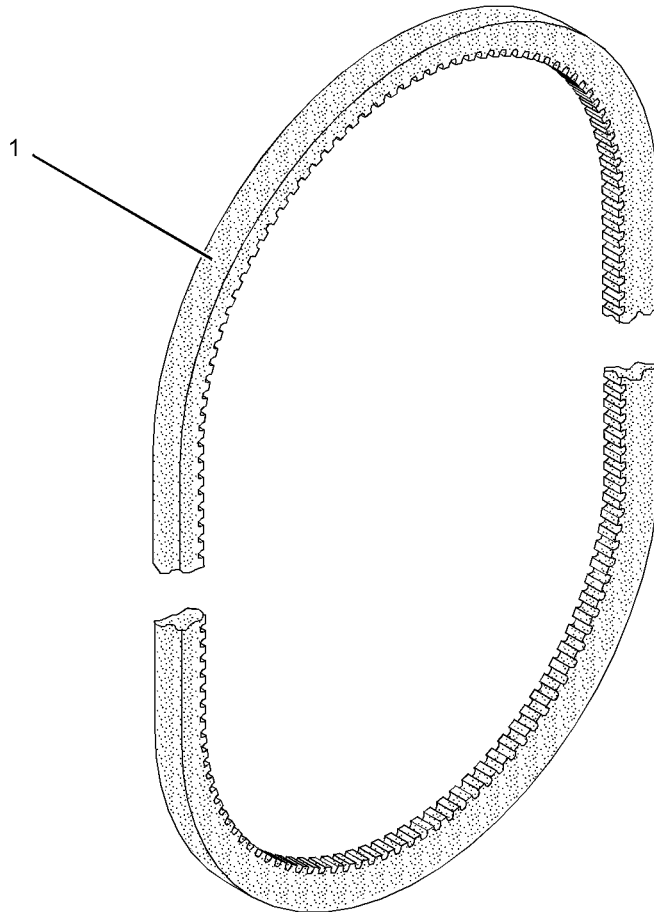
269-9118 BELT GP-FAN

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1356, 1357

i02330682

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-9117	1	V-BELT (FAN) (INCLUDES ONE BELT)						



GRAPHIC #1

<END>

g01153100

COOLING SYSTEM

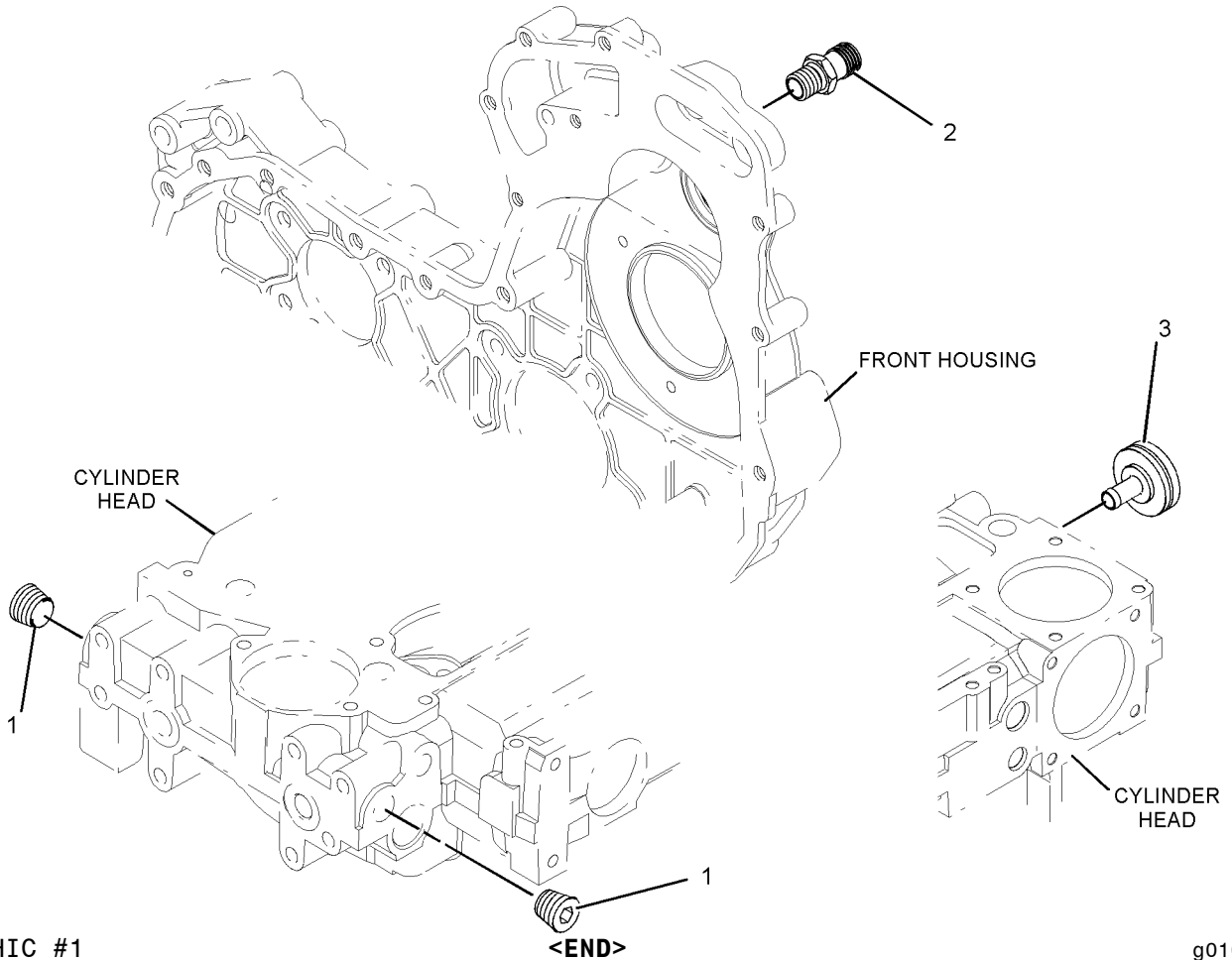
245-4665 CONNECTION GP-HEATER

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1333, 1380, 1383

i02317454

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2B-0858	2	PLUG-PIPE						
	2	1	7W-4669	1	ADAPTER						
	3	1	173-0418	1	ADAPTER						



g01029823

COOLING SYSTEM

230-8086 CONNECTION GP-WATER

S/N: D1K1-UP; J1Z1-UP

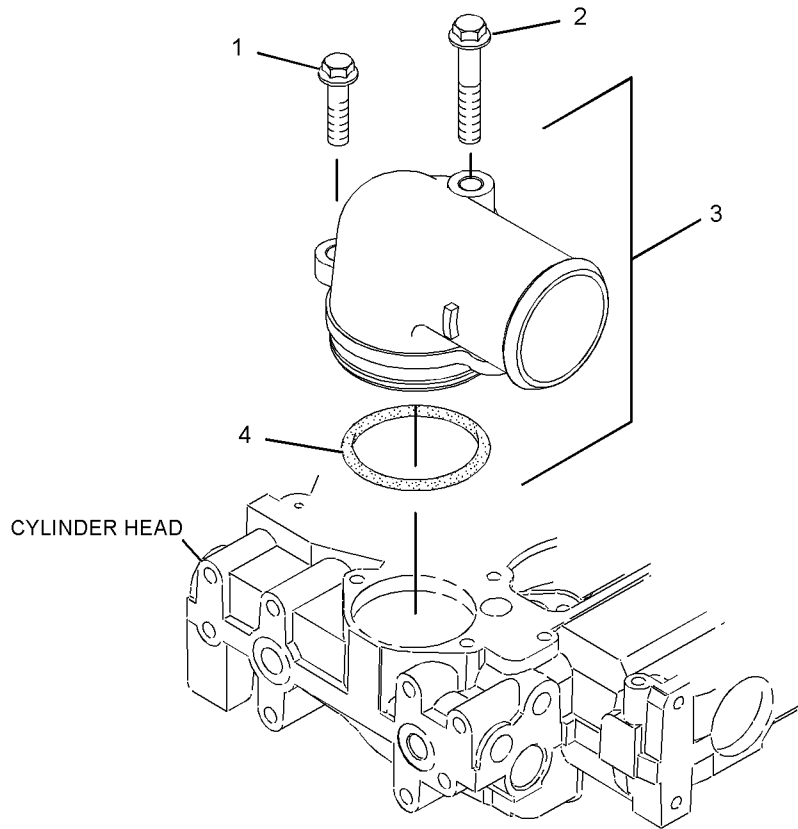
PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1380

i02330695

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	1	BOLT (M8X1.25X25-MM)						
M	2	1	100-3751	1	BOLT (M8X1.25X65-MM)						
	3	1	254-2268	1	CONNECTION AS (INCLUDES WATER TEMP REGULATOR)						
	4	1	254-2270	1	SEAL-O-RING (WATER TEMPERATURE REGULATOR)						

M-METRIC PART



GRAPHIC #1

<END>

g01123531

COOLING SYSTEM

270-0170 CONNECTION GP-WATER

S/N: S1M1-UP

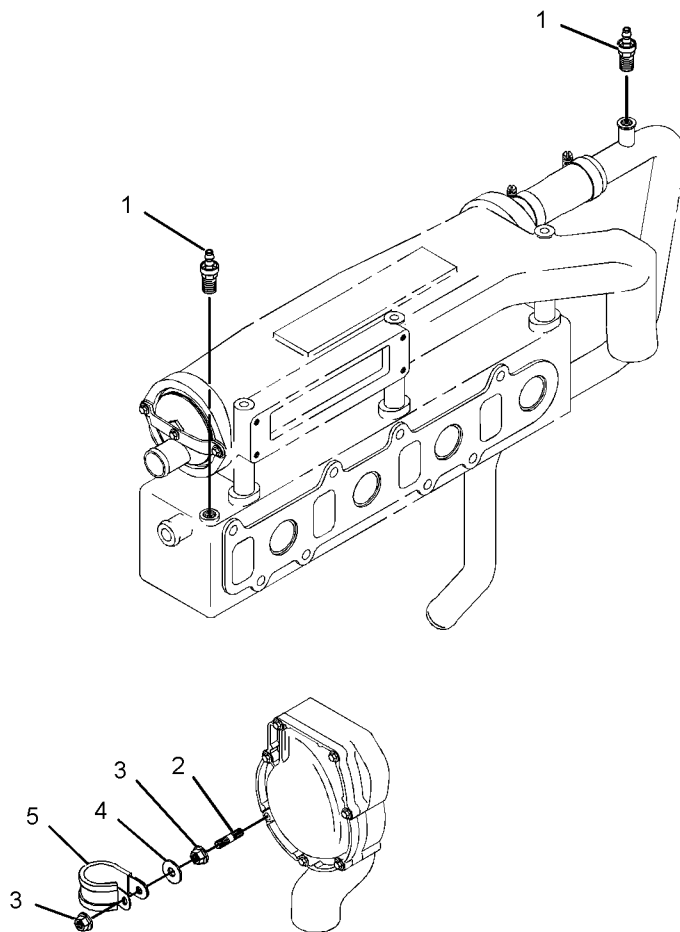
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY, KEEL COOLED ENGINES ONLY

AN ATTACHMENT

SMCS-1380

i02291082

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5158	2	FITTING (1/4)						
	2	1	100-3752	1	STUD (M8X30-MM)						
	3	1	6I-0291	2	NUT (M8X1.25-THD)						
	4	1	196-0272	1	WASHER (8.3X25.4X1.5-MM)						
	5	1	193-5151	1	CLIP						



GRAPHIC #1

<END>

g01148329

COOLING SYSTEM

273-7100 CONNECTION GP-WATER

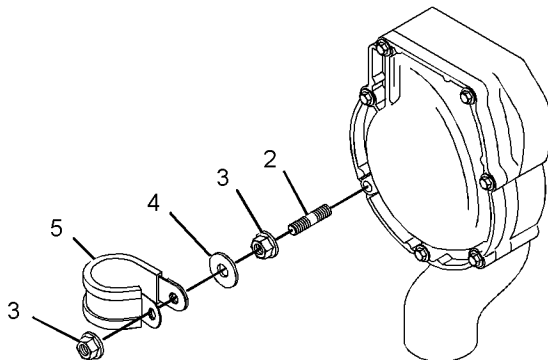
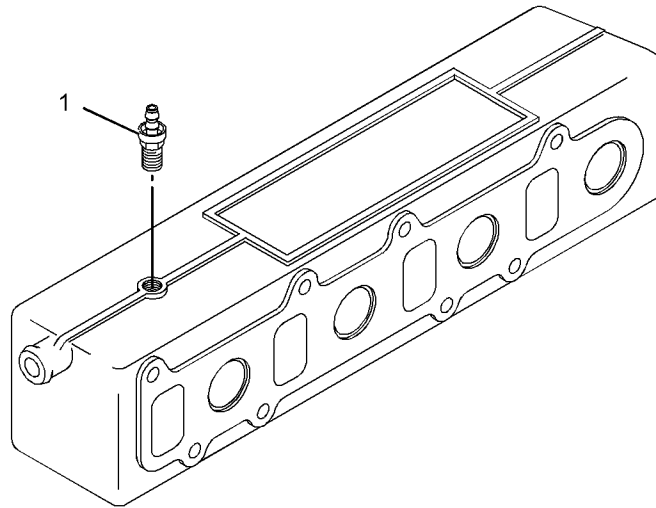
S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES ONLY
AN ATTACHMENT

SMCS-1380

i02312046

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5158	1	FITTING (1/4)						
	2	1	100-3752	1	STUD (M8X30-MM)						
	3	1	6I-0291	2	NUT (M8X1.25-THD)						
	4	1	196-0272	1	WASHER (8.3X25.4X1.5-MM)						
	5	1	193-5151	1	CLIP						



GRAPHIC #1

<END>

g01159433

COOLING SYSTEM

232-3722 COOLER GP-ENGINE OIL

S/N: J1Z1-UP

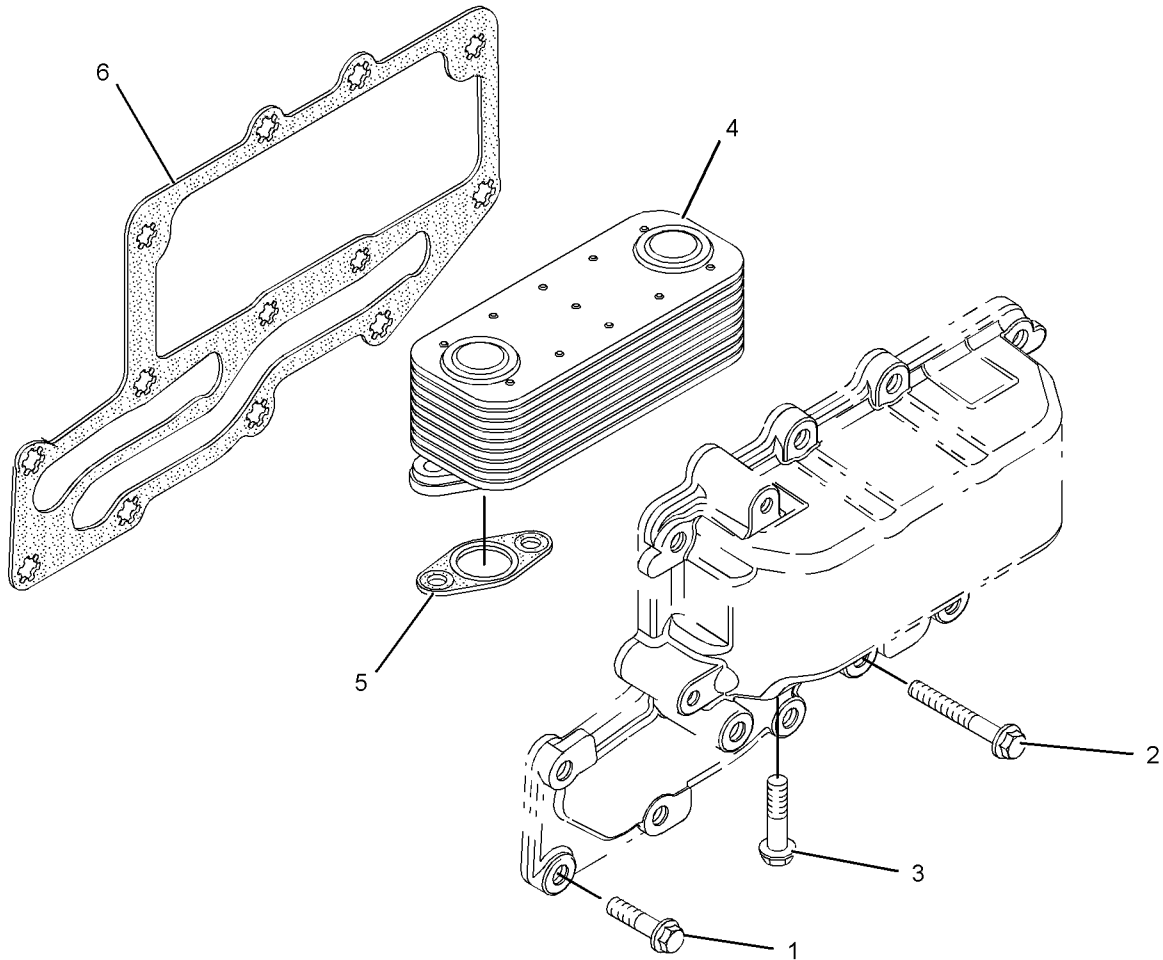
PART OF 238-2799 COOLER GP-FLTR BASE & ENG OIL
AN ATTACHMENT

SMCS-1378

i02534920

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	10	BOLT (M8X1.25X25-MM)						
	2	1	6I-4374	3	BOLT						
M	3	1	101-3895	4	BOLT (M8X1.25X35-MM)						
	4	1	225-6817	1	COOLER-OIL (ENGINE)						
	5	1	225-6818	2	SEAL						
	6	1	272-2265	1	SEAL						

M-METRIC PART



GRAPHIC #1

<END>

g01111678

COOLING SYSTEM

238-2799 COOLER GP-FLTR BASE & ENG OIL

S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

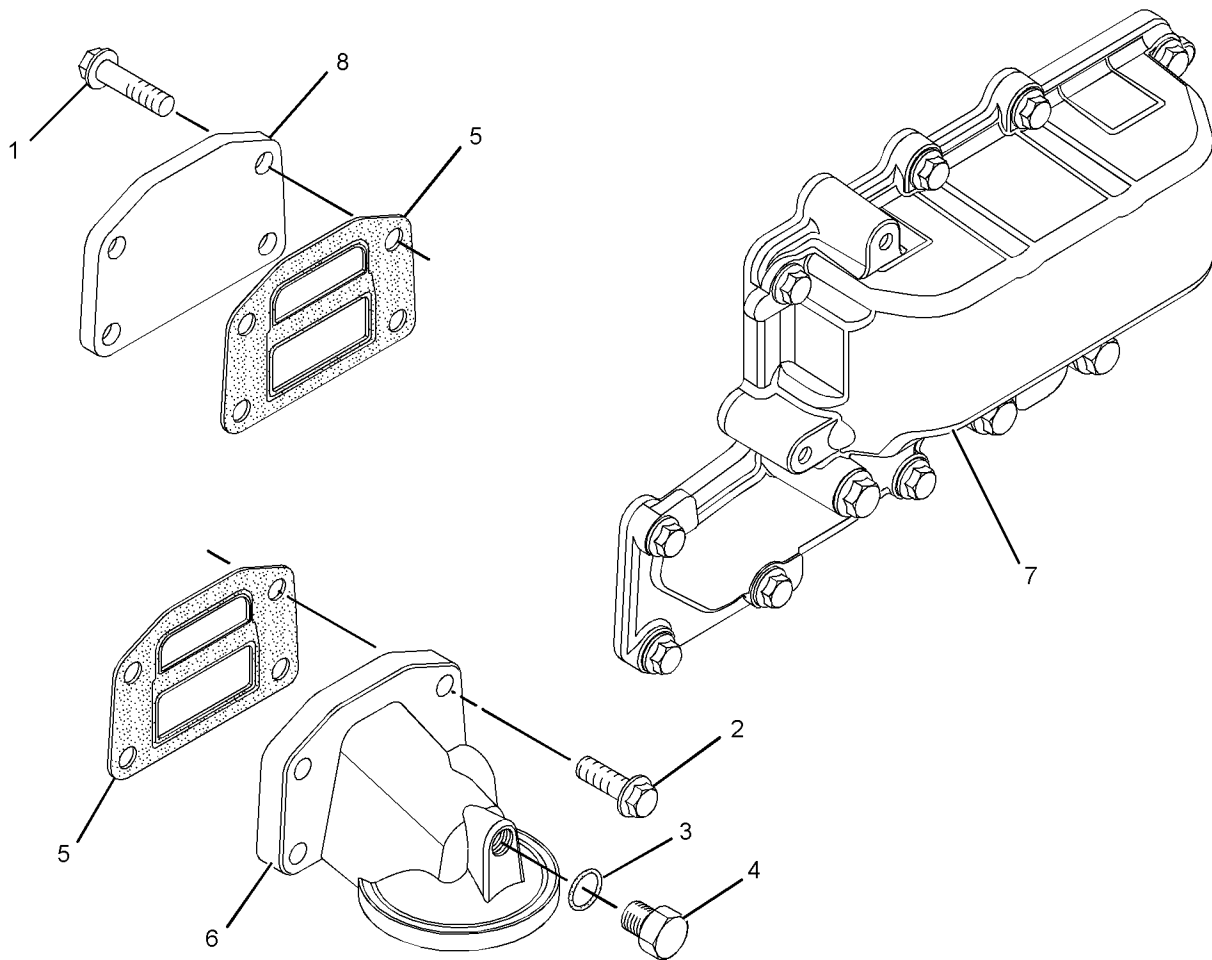
SMCS-1306, 1378

i02574313

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0572	4	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
	3	1	8T-7876	1	SEAL-O-RING						
	4	1	225-7941	1	PLUG						
	5	1	225-7944	2	GASKET						
	6	1	249-0974	1	HEAD AS-OIL FILTER						
Y	7	1	232-3722	1	COOLER GP-ENGINE OIL						93
	8	1	232-3751	1	PLATE						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01289551

COOLING SYSTEM

253-2472 COOLER GP-FLTR BASE & ENG OIL

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1306, 1378

i02578011

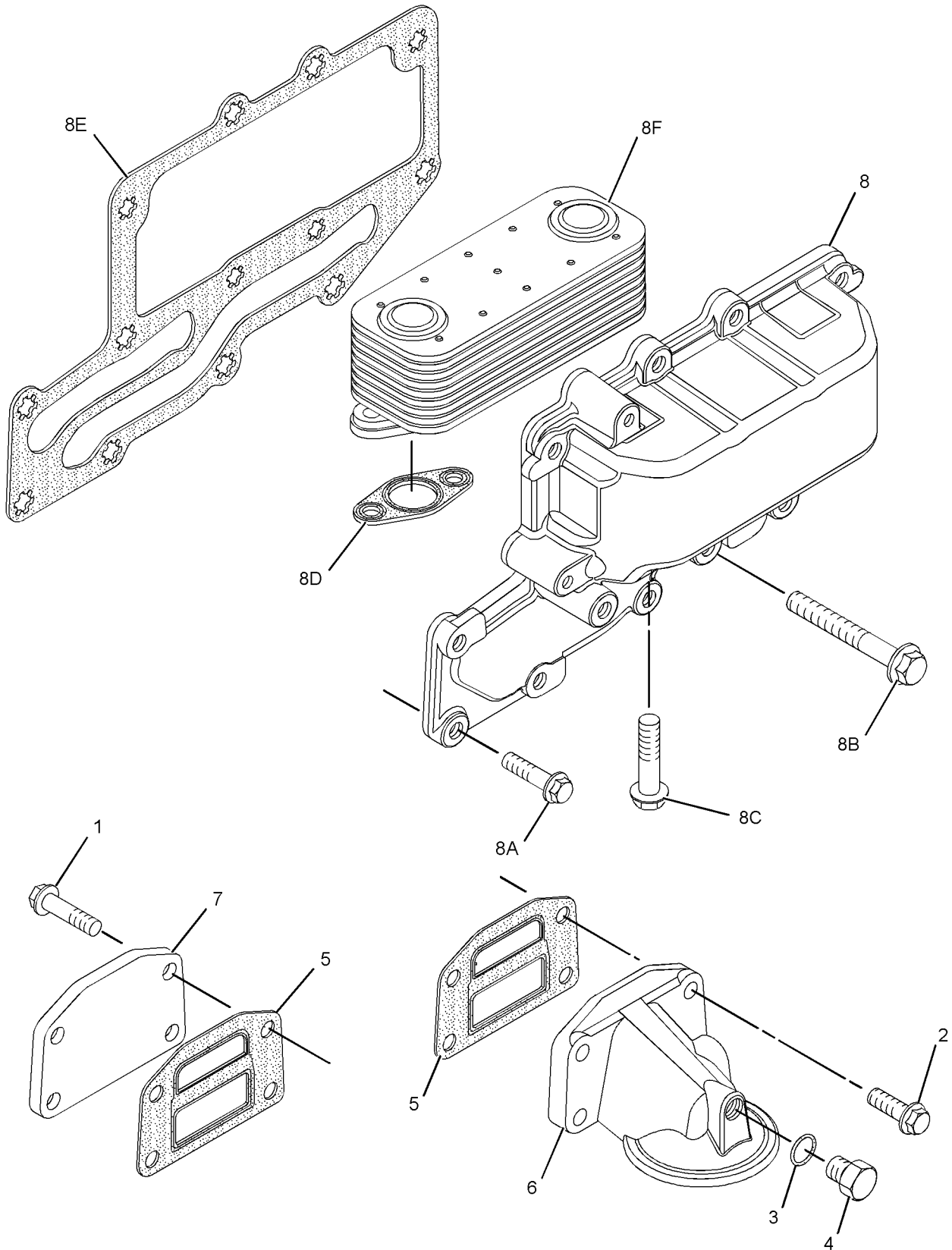
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0572	4	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0645	4	BOLT (M8X1.25X25-MM)						
	3	1	8T-7876	1	SEAL-O-RING						
	4	1	225-7941	1	PLUG						
	5	1	225-7944	2	GASKET						
	6	1	249-0974	1	HEAD AS-OIL FILTER (ENGINE)						
	7	1	232-3751	1	PLATE						
	8	1	233-7223	1	COOLER AS-OIL (ENGINE)						
M	8A	1	6I-0260	10	BOLT (M8X1.25X25-MM)						
	8B	1	6I-4374	3	BOLT						
M	8C	1	101-3895	4	BOLT (M8X1.25X35-MM)						
	8D	1	225-6818	2	SEAL						
	8E	1	225-6820	1	GASKET						
	8F	1	233-7222	1	COOLER-OIL (ENGINE)						

M-METRIC PART

COOLING SYSTEM

253-2472 COOLER GP-FLTR BASE & ENG OIL (contd.)

i02578011



GRAPHIC #1

<END>

g01300525

COOLING SYSTEM

292-7757 FITTING GP

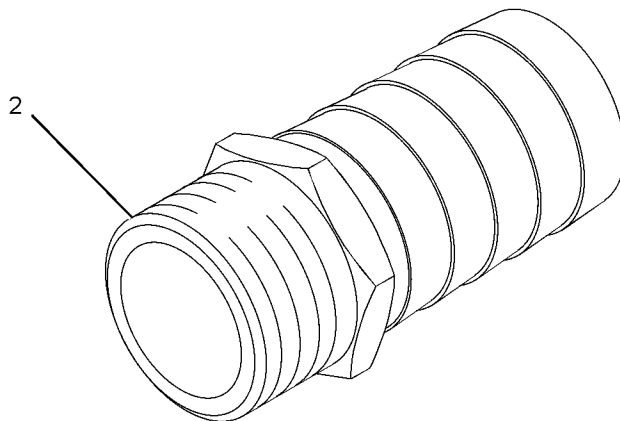
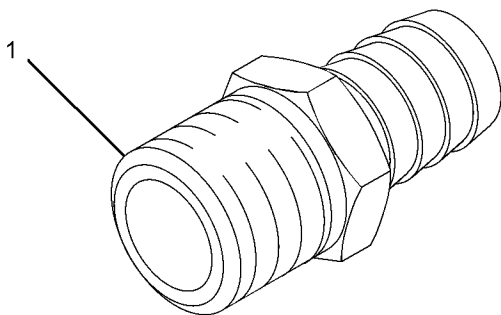
S/N: L1K1-UP; S1M1-UP

AN ATTACHMENT

SMCS-1380

i02540663

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	214-4131	1	ADAPTER						
	2	1	230-7225	1	CONNECTOR						



GRAPHIC #1

<END>

g01274052

COOLING SYSTEM

263-5117 HEAT EXCHANGER GP-SEA WATER

S/N: L1K1-UP; S1M1-UP

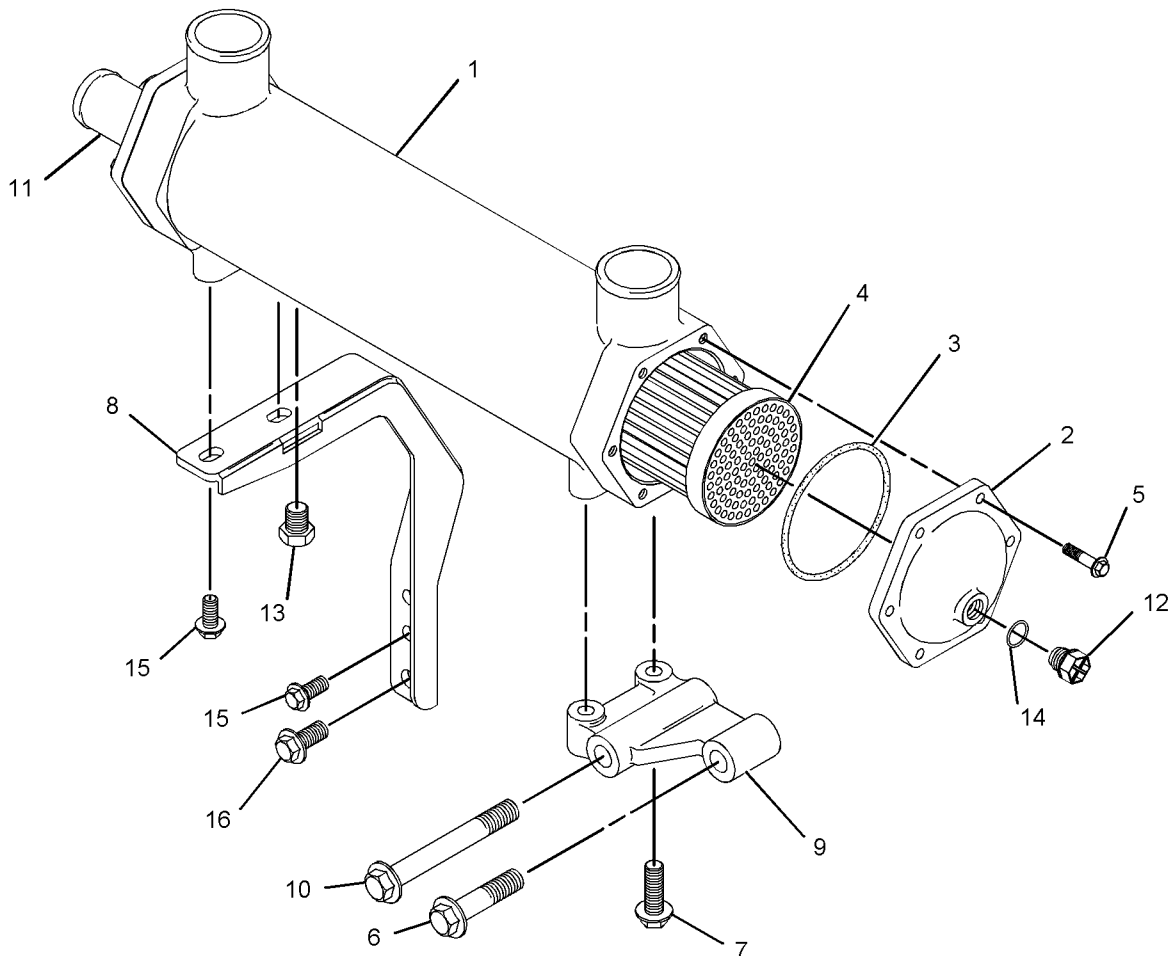
CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1379

i02288369

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	210-6896	1	HEAT EXCHANGER GP-SEA WATER						
	2	1	196-7661	1	CAP AS-END						
	3	1	194-7227	2	SEAL-O-RING						
	4	1	210-6897	1	BUNDLE AS-TUBE						
	5	1	6I-0843	12	BOLT (M6X1X25-MM)						
	6	1	6I-0235	1	BOLT (M12X1.75X50-MM)						
M	7	1	101-3895	2	BOLT (M8X1.25X35-MM)						
	8	1	270-4176	1	BRACKET-SUPPORT						
	9	1	210-6899	1	BRACKET						
	10	1	210-6900	1	BOLT-FLANGE HEAD (M12X100-MM)						
	11	1	196-7662	1	CAP-END						
	12	1	203-9845	1	PLUG						
	13	1	194-7226	1	PLUG						
	14	1	214-7654	1	SEAL-O-RING						
M	15	1	124-3815	4	BOLT (M8X16X1.25-MM)						
M	16	1	100-4830	1	BOLT (M10X1.5X20-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01148982

COOLING SYSTEM

268-8711 HEAT EXCHANGER GP-SEA WATER

S/N: S1M1-UP

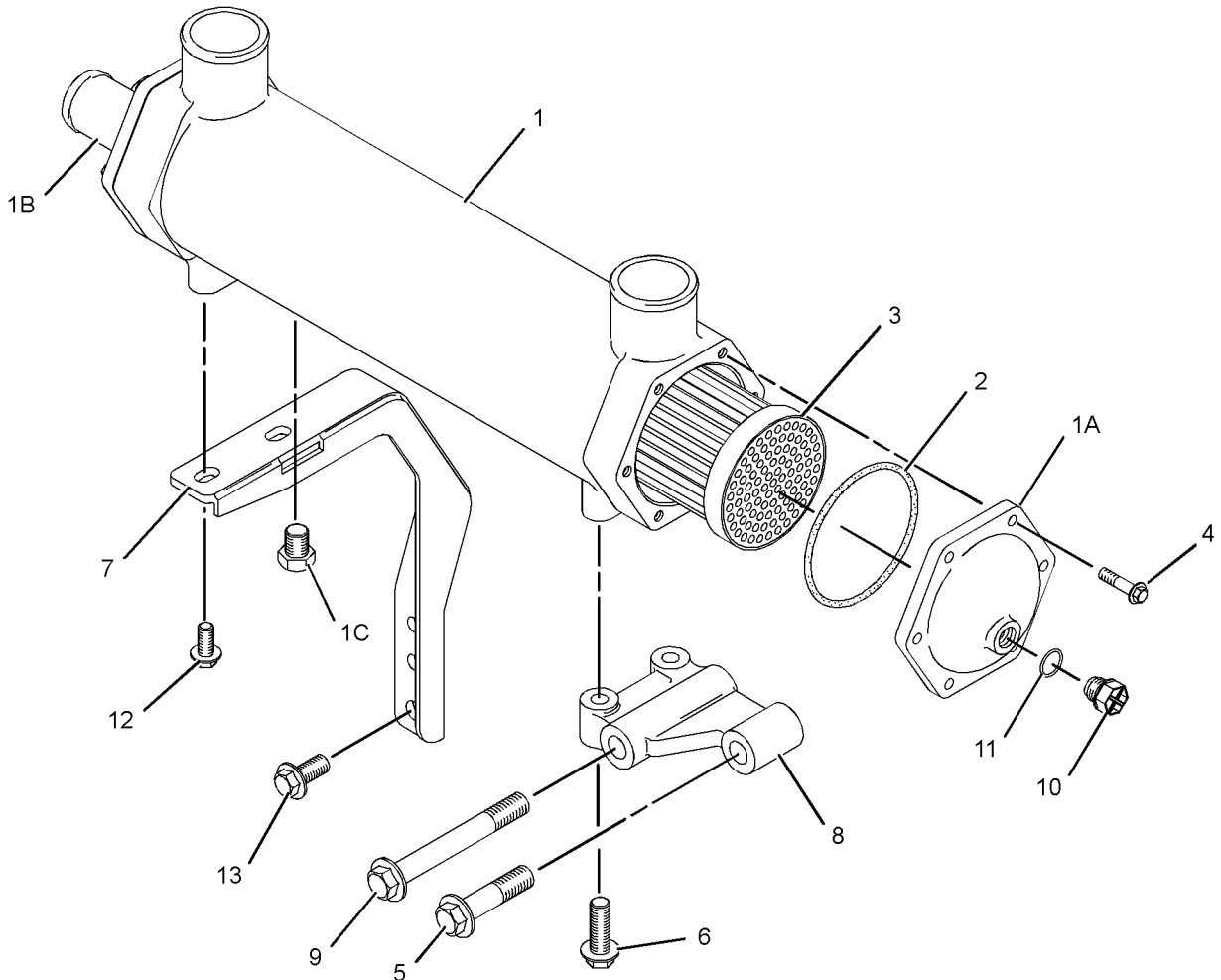
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES, HEAT EXCHANGER COOLED ENGINES. CANNOT BE USED WITH KEEL COOLED ENGINES
AN ATTACHMENT

SMCS-1379

i02305080

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	210-6896	1	HEAT EXCHANGER GP-SEA WATER						
	1A	1	196-7662	1	CAP-END						
	1B	1	196-7661	1	CAP AS-END						
	1C	1	194-7226	1	PLUG						
	2	1	194-7227	2	SEAL-O-RING						
	3	1	210-6897	1	BUNDLE AS-TUBE						
	4	1	6I-0843	12	BOLT (M6X1X25-MM)						
	5	1	6I-0235	1	BOLT (M12X1.75X50-MM)						
M	6	1	101-3895	2	BOLT (M8X1.25X35-MM)						
	7	1	270-4176	1	BRACKET-SUPPORT						
	8	1	210-6899	1	BRACKET						
	9	1	210-6900	1	BOLT-FLANGE HEAD (M12X100-MM)						
	10	1	203-9845	1	PLUG						
	11	1	214-7654	1	SEAL-O-RING						
M	12	1	124-3815	4	BOLT (M8X16X1.25-MM)						
M	13	1	100-4830	1	BOLT (M10X1.5X20-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01155487

COOLING SYSTEM

263-5387 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP

FOR USE WITH HEAT EXCHANGER COOLED ENGINES ONLY. CANNOT BE USED WITH KEEL
COOLED ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02288364

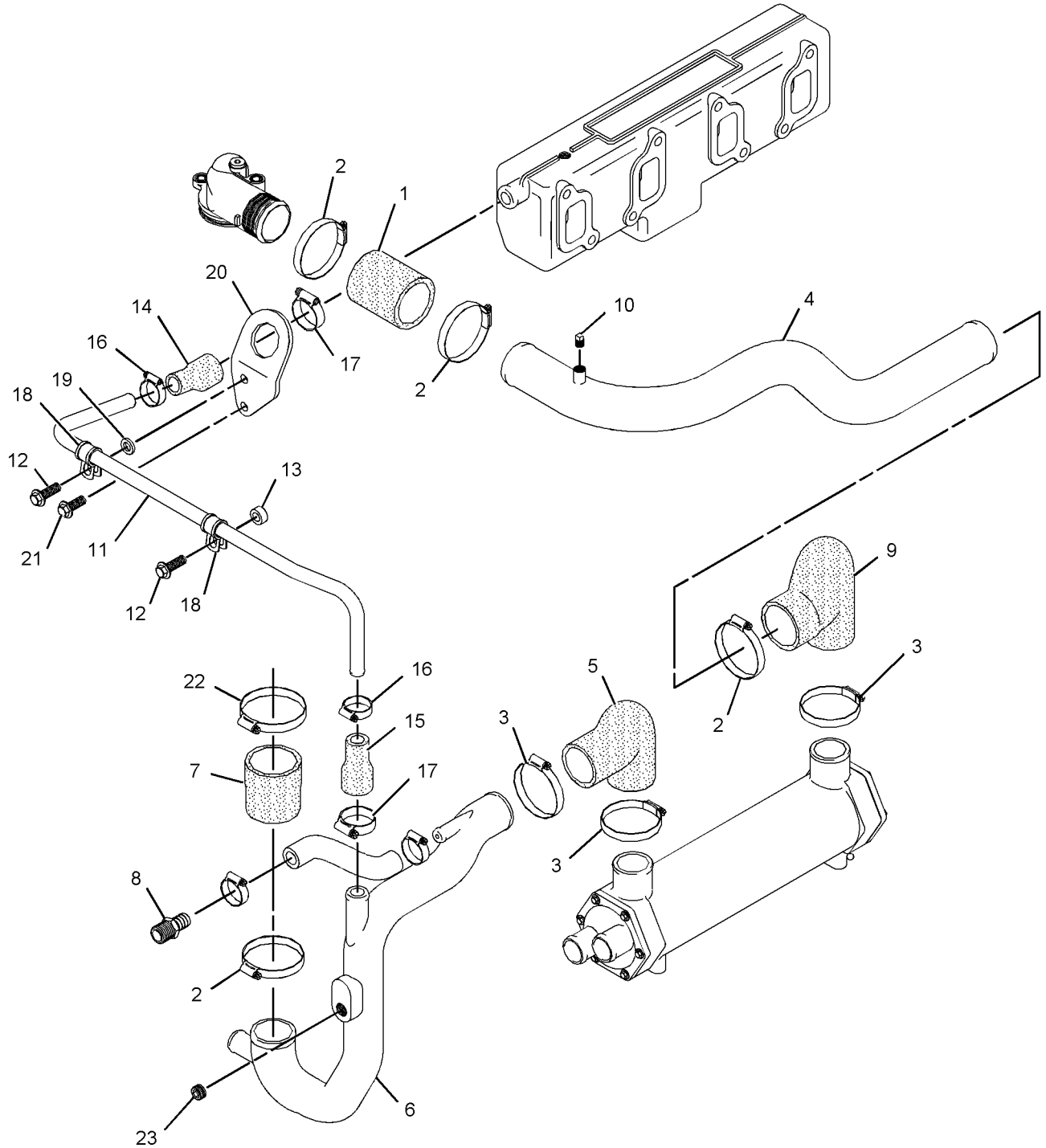
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5120	1	HOSE						
	2	1	9M-0164	4	CLAMP-HOSE						
	3	1	124-6260	3	CLAMP-HOSE						
	4	1	263-5162	1	TUBE						
	5	1	263-5164	1	HOSE						
	6	1	263-5166	1	TUBE						
	7	1	263-5168	1	HOSE						
	8	1	214-4131	1	ADAPTER						
	9	1	263-5173	1	HOSE						
	10	1	205-2294	1	PLUG-PIPE						
	11	1	263-5177	1	TUBE						
M	12	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
	13	1	089-7338	1	SLEEVE						
	14	1	263-5179	1	HOSE						
	15	1	263-5183	1	HOSE						
	16	1	5D-1026	2	CLAMP-HOSE						
	17	1	2S-3440	2	CLAMP-HOSE						
	18	1	193-5183	2	CLIP						
	19	1	263-5191	1	SPACER (11X19X3-MM THK)						
	20	1	263-5193	1	BRACKET						
M	21	1	6I-0654	1	BOLT (M10X1.5X25-MM)						
	22	1	2J-6540	1	CLAMP (HOSE)						
	23	1	195-4708	1	PLUG						

M-METRIC PART

COOLING SYSTEM

263-5387 LINES GP-WATER (contd.)

i02288364



GRAPHIC #1

<END>

g01146734

COOLING SYSTEM

263-5676 LINES GP-WATER

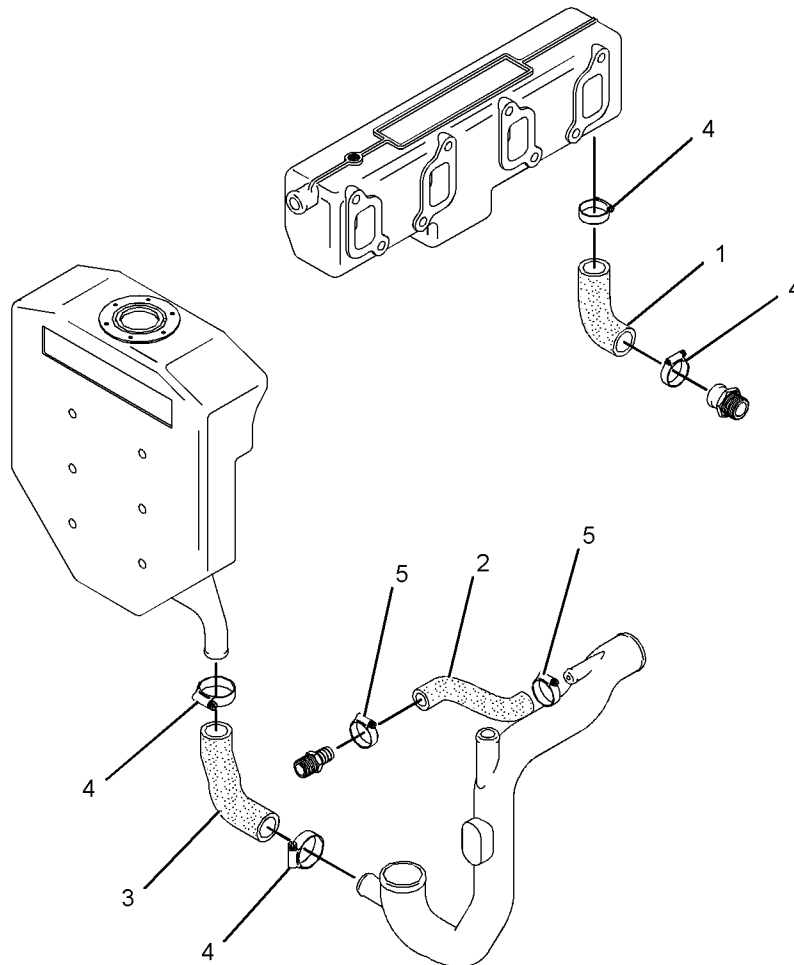
S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES, KEEL COOLED
ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02288379

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-5668	1	HOSE						
	2	1	263-5673	1	HOSE						
	3	1	263-5670	1	HOSE						
	4	1	2S-3440	4	CLAMP - HOSE						
	5	1	5D-1026	2	CLAMP - HOSE						



GRAPHIC #1

<END>

g01146717

COOLING SYSTEM

263-5766 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02288412

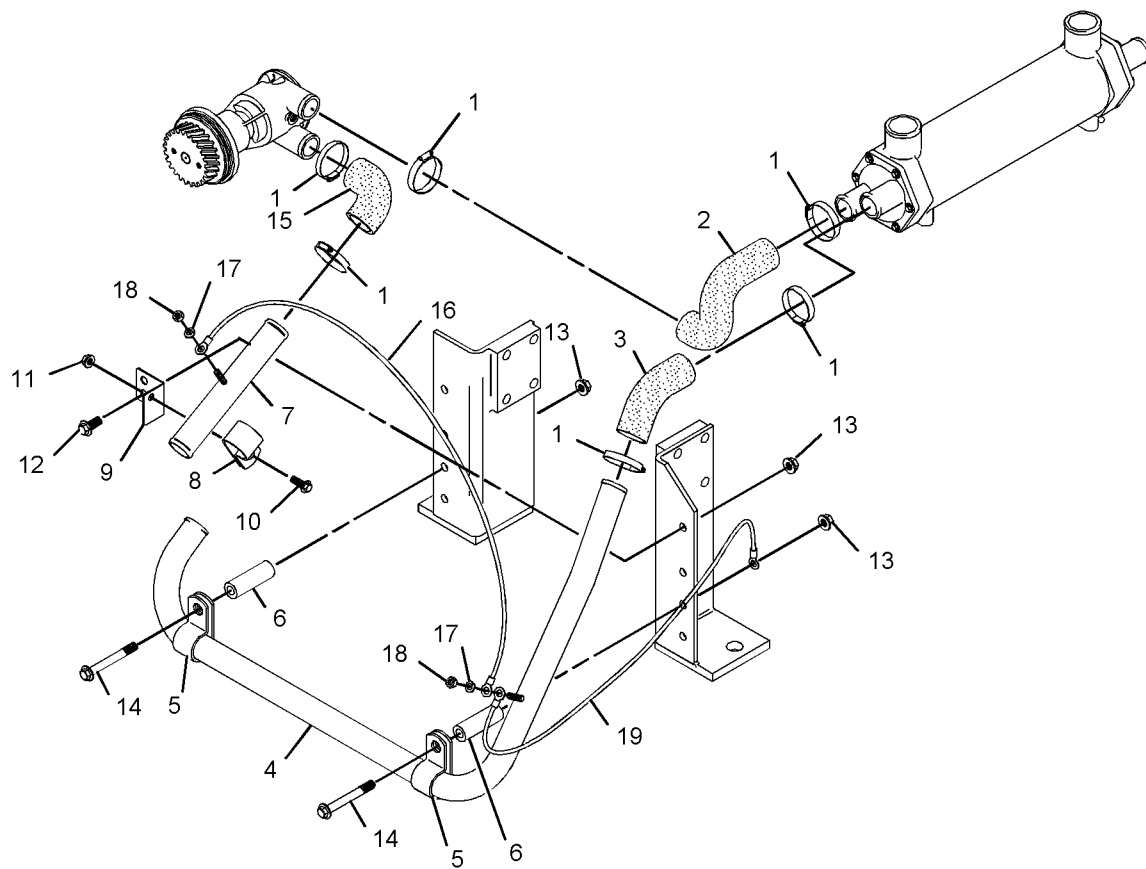
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	124-6258	6	CLAMP-HOSE						
	2	1	210-6869	1	HOSE						
	3	1	193-5132	1	HOSE-ELBOW						
	4	1	263-5763	1	TUBE						
	5	1	193-5198	2	CLIP						
	6	1	263-5764	2	SPACER (11X20X60-MM THK)						
	7	1	210-6871	1	TUBE						
	8	1	193-5192	1	CLIP						
	9	1	210-6872	1	BRACKET						
M	10	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
	11	1	6I-0291	1	NUT (M8X1.25-THD)						
M	12	1	100-4830	1	BOLT (M10X1.5X20-MM)						
	13	1	6I-0594	3	NUT (M10X1.15-THD)						
M	14	1	103-5687	2	BOLT (M10X1.5X85-MM)						
	15	1	210-6873	1	HOSE						
	16	1	194-7181	1	WIRE AS-GROUND						
	17	1	194-7184	2	LOCKWASHER						
M	18	1	199-1291	2	NUT-BRASS (M6X1-THD)						
	19	1	196-0278	1	WIRE AS (BONDING)						

M-METRIC PART

COOLING SYSTEM

263-5766 LINES GP-WATER (contd.)

i02288412



GRAPHIC #1

<END>

g01146641

COOLING SYSTEM

266-5846 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH HEAT EXCHANGER COOLED ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

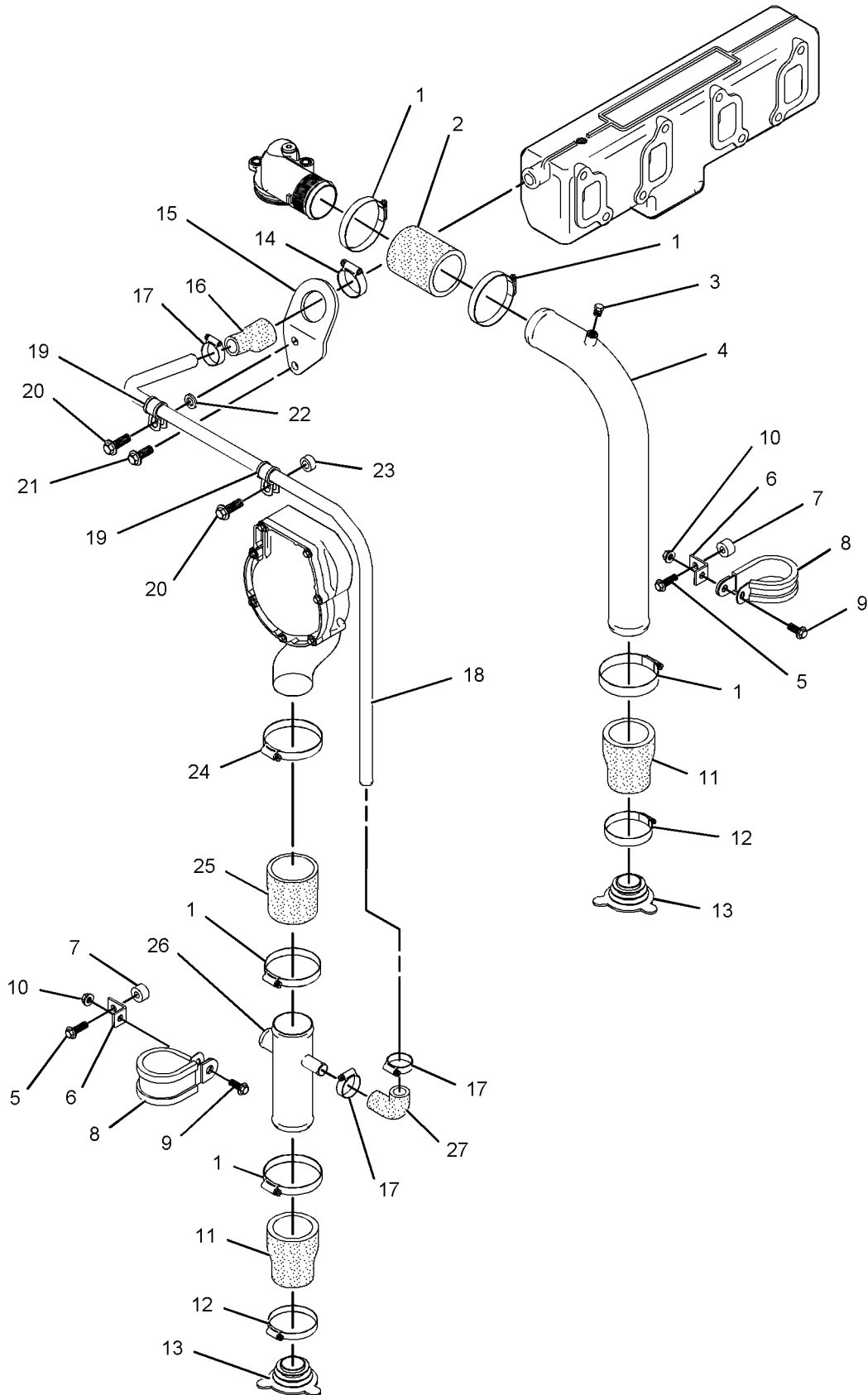
i02288802

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-0164	5	CLAMP-HOSE						
	2	1	193-5120	1	HOSE						
	3	1	205-2294	1	PLUG-PIPE						
	4	1	266-5847	1	TUBE AS						
M	5	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
	6	1	266-5848	2	BRACKET-SUPPORT						
	7	1	5C-1809	2	SPACER (8X19X6.5-MM)						
	8	1	237-4089	2	CLIP						
M	9	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
	10	1	6I-0291	2	NUT (M8X1.25-THD)						
	11	1	194-7201	2	HOSE-REDUCER						
	12	1	9M-2904	2	CLAMP-HOSE						
	13	1	210-6655	2	PLUG						
	14	1	2S-3440	1	CLAMP-HOSE						
	15	1	263-5193	1	BRACKET						
	16	1	263-5179	1	HOSE						
	17	1	5D-1026	3	CLAMP-HOSE						
	18	1	266-5849	1	TUBE AS						
	19	1	193-5183	2	CLIP						
M	20	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
M	21	1	6I-0654	1	BOLT (M10X1.5X25-MM)						
	22	1	263-5191	1	SPACER (11X19X3-MM THK)						
	23	1	089-7338	1	SLEEVE						
	24	1	196-0383	1	CLAMP-HOSE						
	25	1	263-5168	1	HOSE						
	26	1	266-5850	1	TUBE AS						
	27	1	7W-4666	1	HOSE						
M-METRIC PART											

COOLING SYSTEM

266-5846 LINES GP-WATER (contd.)

i02288802



GRAPHIC #1

<END>

g01146875

COOLING SYSTEM

268-9251 LINES GP-WATER

S/N: S1M1-UP

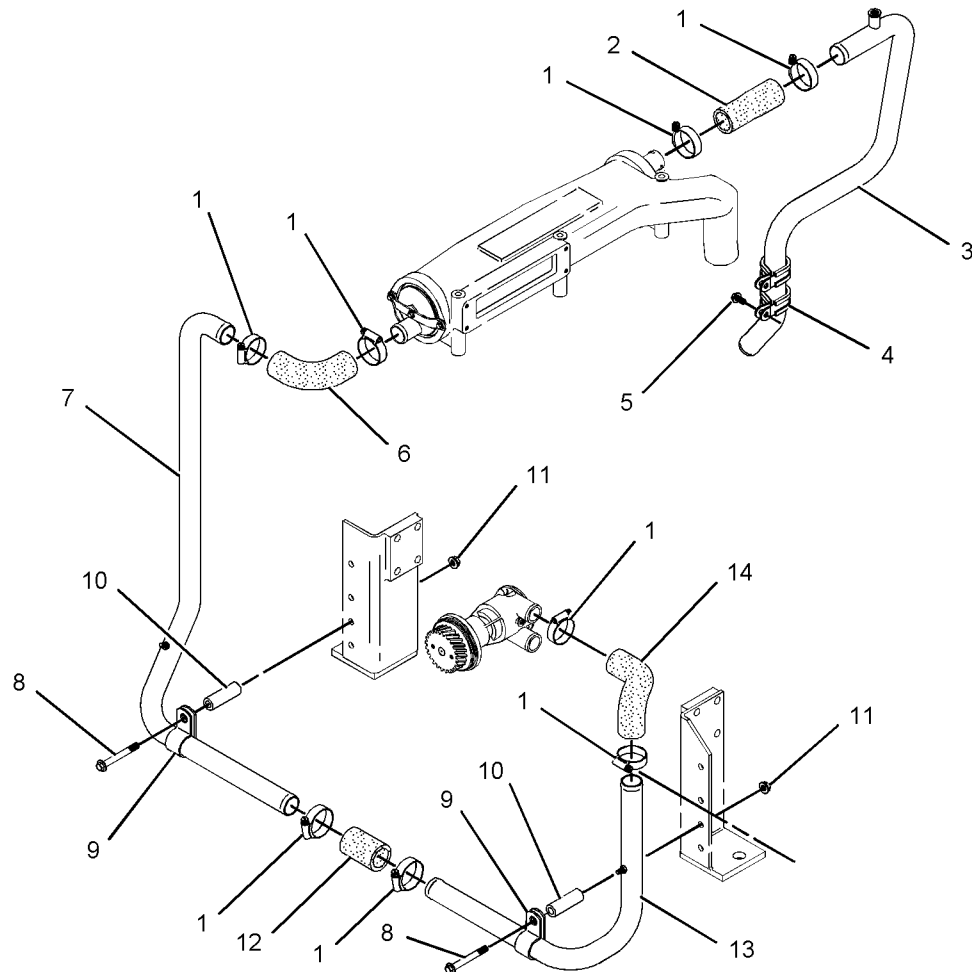
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES, KEEL COOLED ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02290173

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-2904	8	CLAMP-HOSE						
	2	1	268-9245	1	HOSE						
	3	1	268-9246	1	TUBE						
	4	1	193-5184	2	CLIP						
	5	1	102-9941	2	BOLT (M12X1.75X25-MM)						
	6	1	268-9247	1	HOSE						
	7	1	268-9248	1	TUBE						
M	8	1	103-5687	2	BOLT (M10X1.5X85-MM)						
	9	1	193-5198	2	CLIP						
	10	1	263-5764	2	SPACER (11X20X60-MM THK)						
	11	1	6I-0594	2	NUT (M10X1.15-THD)						
	12	1	193-5133	1	HOSE						
	13	1	268-9249	1	TUBE						
	14	1	268-9250	1	HOSE						

M-METRIC PART



GRAPHIC #1

<END>

g01147815

COOLING SYSTEM

269-1754 LINES GP-WATER

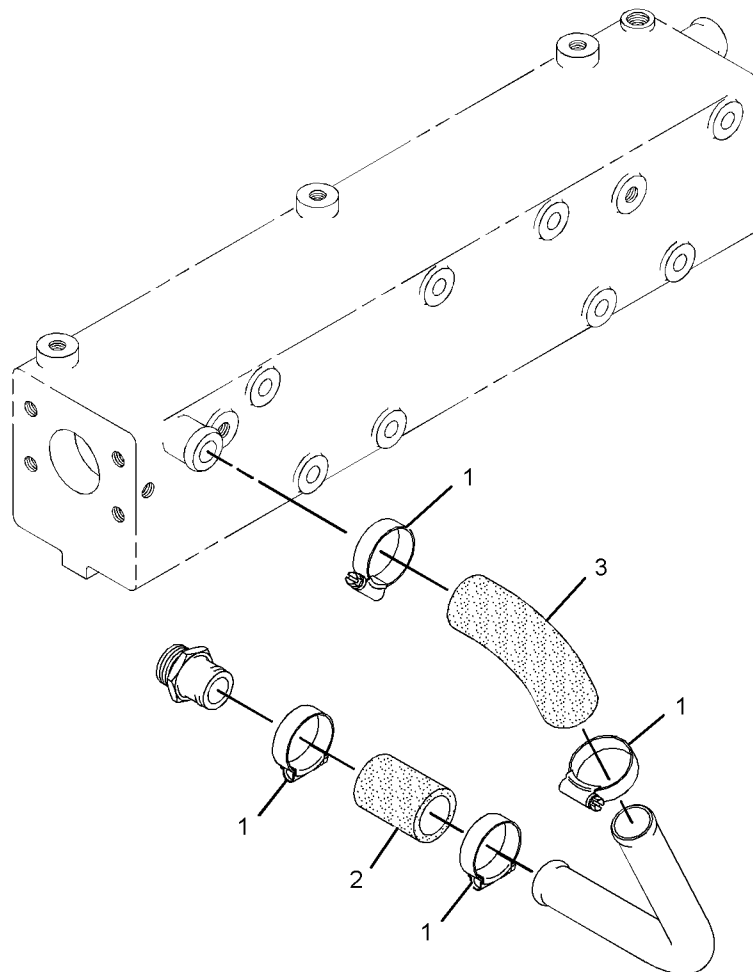
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES. CANNOT BE USED WITH HEAT EXCHANGER COOLED ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02290179

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	2S-3440	4	CLAMP-HOSE						
	2	1	268-4270	1	HOSE						
	3	1	193-5104	1	HOSE-ELBOW						



GRAPHIC #1

<END>

g01147741

COOLING SYSTEM

269-1767 LINES GP-WATER

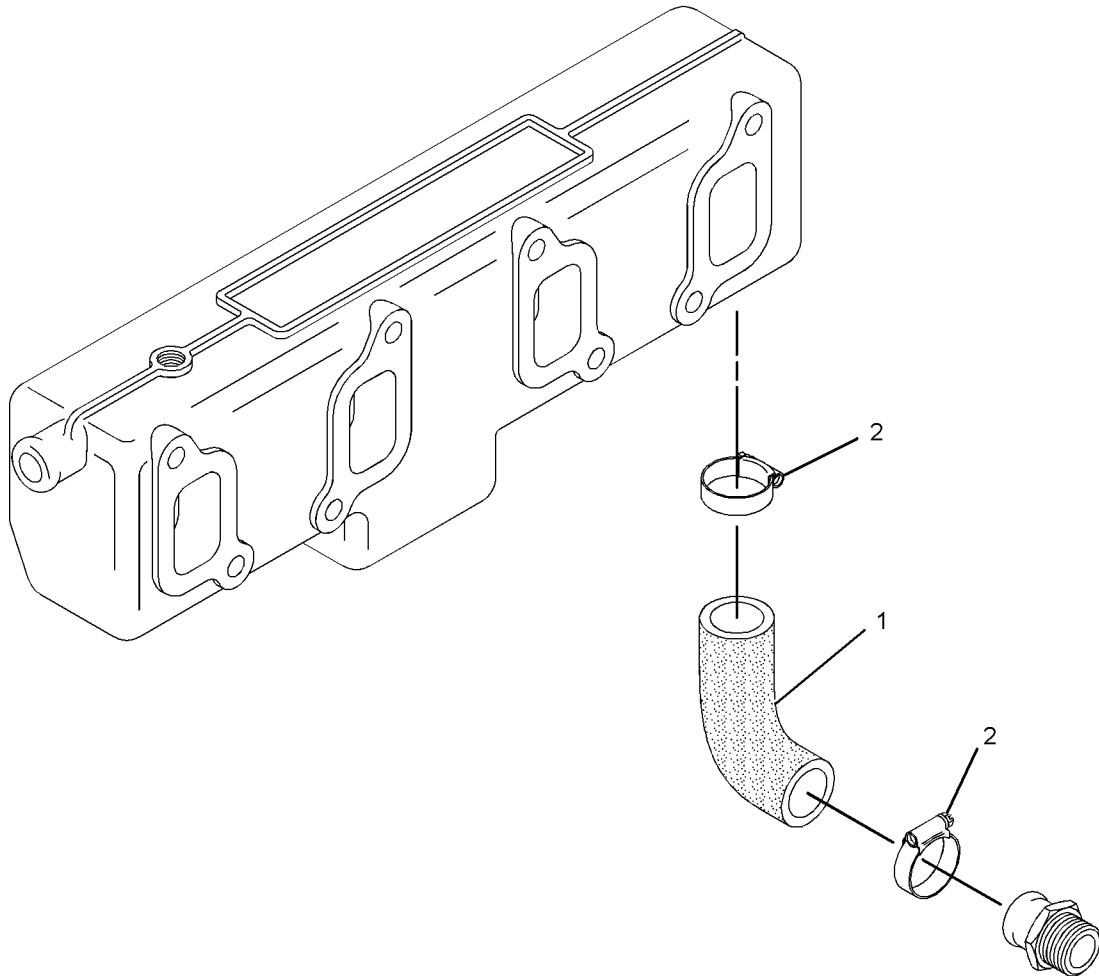
S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES ONLY. CANNOT BE USED WITH HEAT EXCHANGER
COOLED ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02290306

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	263-5668	1	HOSE	
	2	1	2S-3440	2	CLAMP - HOSE	



GRAPHIC #1

<END>

g01147979

COOLING SYSTEM

269-4247 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES, MARINE SOCIETY APPROVED ENGINES ONLY.

CANNOT BE USED WITH HEAT EXCHANGER COOLED ENGINES

AN ATTACHMENT

SMCS-1355, 1380, 1393

i02301327

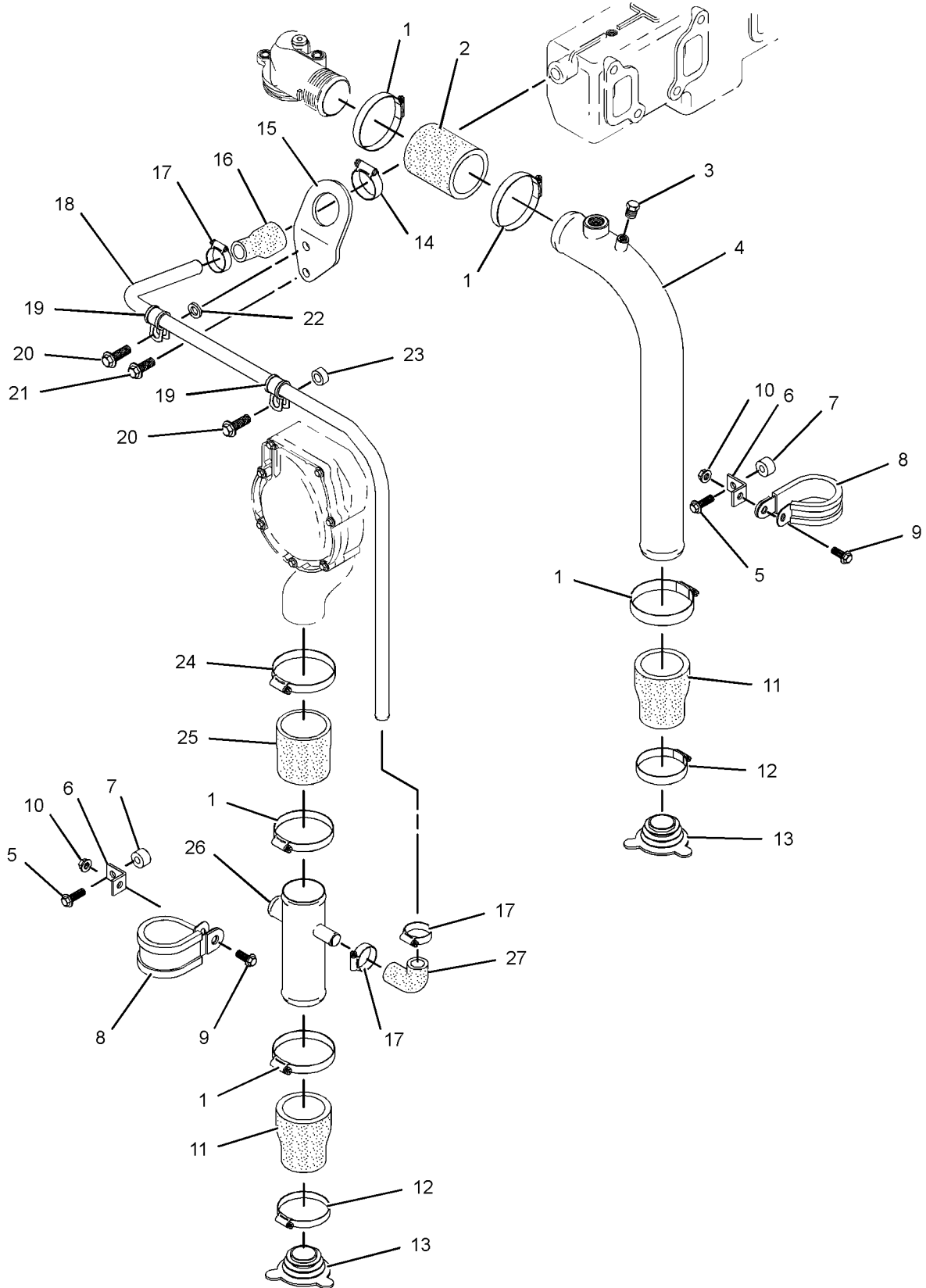
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-0164	5	CLAMP-HOSE						
	2	1	193-5120	1	HOSE						
	3	1	205-2294	1	PLUG-PIPE						
	4	1	269-4246	1	TUBE						
M	5	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
	6	1	266-5848	2	BRACKET-SUPPORT						
	7	1	5C-1809	2	SPACER (8X19X6.5-MM)						
	8	1	237-4089	2	CLIP						
M	9	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
	10	1	6I-0291	2	NUT (M8X1.25-THD)						
	11	1	194-7201	2	HOSE-REDUCER						
	12	1	9M-2904	2	CLAMP-HOSE						
	13	1	210-6655	2	PLUG						
	14	1	2S-3440	1	CLAMP-HOSE						
	15	1	263-5193	1	BRACKET						
	16	1	263-5179	1	HOSE						
	17	1	5D-1026	3	CLAMP-HOSE						
	18	1	266-5849	1	TUBE AS						
	19	1	193-5183	2	CLIP						
M	20	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
M	21	1	6I-0654	1	BOLT (M10X1.5X25-MM)						
	22	1	263-5191	1	SPACER (11X19X3-MM THK)						
	23	1	089-7338	1	SLEEVE						
	24	1	196-0383	1	CLAMP-HOSE						
	25	1	263-5168	1	HOSE						
	26	1	266-5850	1	TUBE AS						
	27	1	7W-4666	1	HOSE						

M-METRIC PART

COOLING SYSTEM

269-4247 LINES GP-WATER (contd.)

i02301327



GRAPHIC #1

<END>

g01153023

COOLING SYSTEM

269-9096 LINES GP-WATER

S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES, HEAT EXCHANGER COOLED
ENGINES ONLY
AN ATTACHMENT

SMCS-1355, 1380, 1393

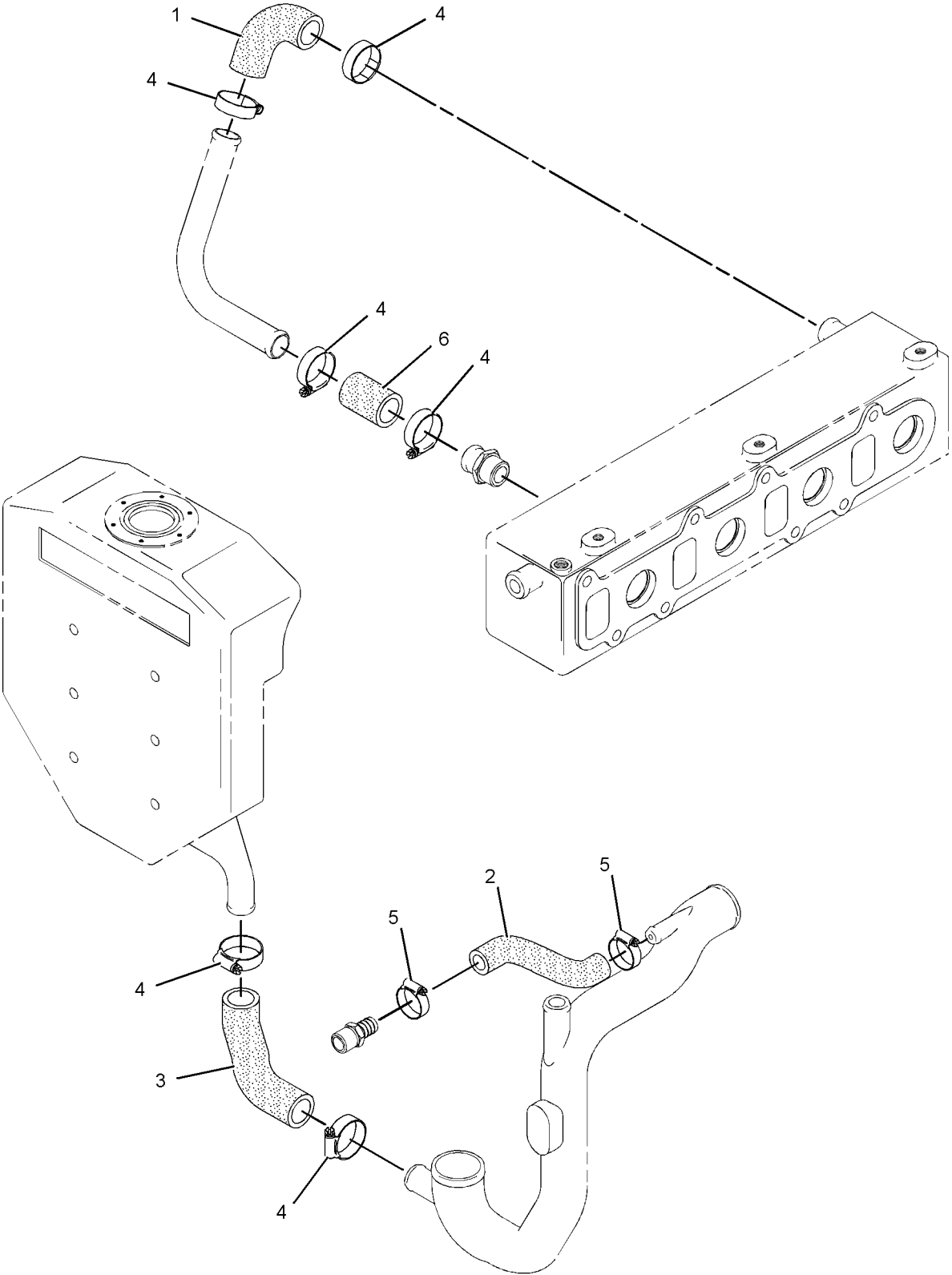
i02291012

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5104	1	HOSE - ELBOW						
	2	1	263-5673	1	HOSE						
	3	1	263-5670	1	HOSE						
	4	1	2S-3440	6	CLAMP - HOSE						
	5	1	5D-1026	2	CLAMP - HOSE						
	6	1	268-4270	1	HOSE						

COOLING SYSTEM

269-9096 LINES GP-WATER (contd.)

i02291012



GRAPHIC #1

<END>

g01158044

COOLING SYSTEM

271-0151 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP

FOR USE WITH HEAT EXCHANGER COOLED ENGINES, TWIN STARTER MOTOR ENGINES WHICH
ARE FITTED WITH A WATER JACKET HEATER
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02291568

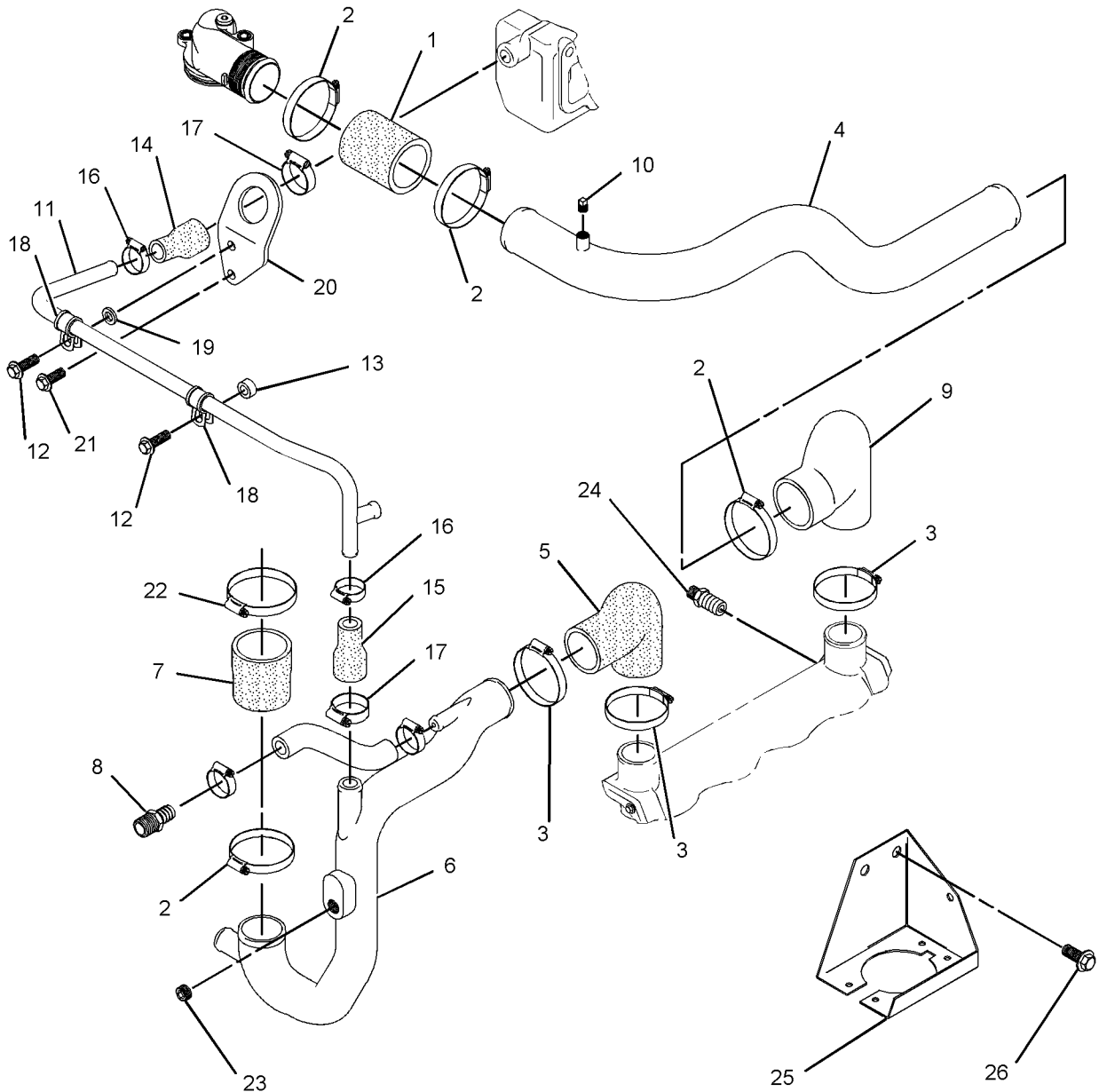
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5120	1	HOSE						
	2	1	9M-0164	4	CLAMP - HOSE						
	3	1	124-6260	3	CLAMP - HOSE						
	4	1	263-5162	1	TUBE						
	5	1	263-5164	1	HOSE						
	6	1	263-5166	1	TUBE						
	7	1	263-5168	1	HOSE						
	8	1	214-4131	1	ADAPTER						
	9	1	263-5173	1	HOSE						
	10	1	205-2294	1	PLUG - PIPE						
	11	1	271-0149	1	TUBE						
M	12	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
	13	1	089-7338	1	SLEEVE						
	14	1	263-5179	1	HOSE						
	15	1	263-5183	1	HOSE						
	16	1	5D-1026	2	CLAMP - HOSE						
	17	1	2S-3440	2	CLAMP - HOSE						
	18	1	193-5183	2	CLIP						
	19	1	263-5191	1	SPACER (11X19X3-MM THK)						
	20	1	263-5193	1	BRACKET						
M	21	1	6I-0654	1	BOLT (M10X1.5X25-MM)						
	22	1	2J-6540	1	CLAMP (HOSE) (WITH LINER)						
	23	1	195-4708	1	PLUG						
	24	1	214-0697	1	ADAPTER						
	25	1	214-7269	1	BRACKET						
	26	1	102-9941	2	BOLT (M12X1.75X25-MM)						

M-METRIC PART

COOLING SYSTEM

271-0151 LINES GP-WATER (contd.)

i02291568



GRAPHIC #1

<END>

g01148591

COOLING SYSTEM

271-1337 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP

FOR USE WITH HEAT EXCHANGER COOLED, SINGLE STARTER MOTOR ENGINES FITTED
WITH A WATER JACKET HEATER. CANNOT BE USED WITH KEEL COOLED OR TWIN STARTER
MOTOR ENGINES
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02309237

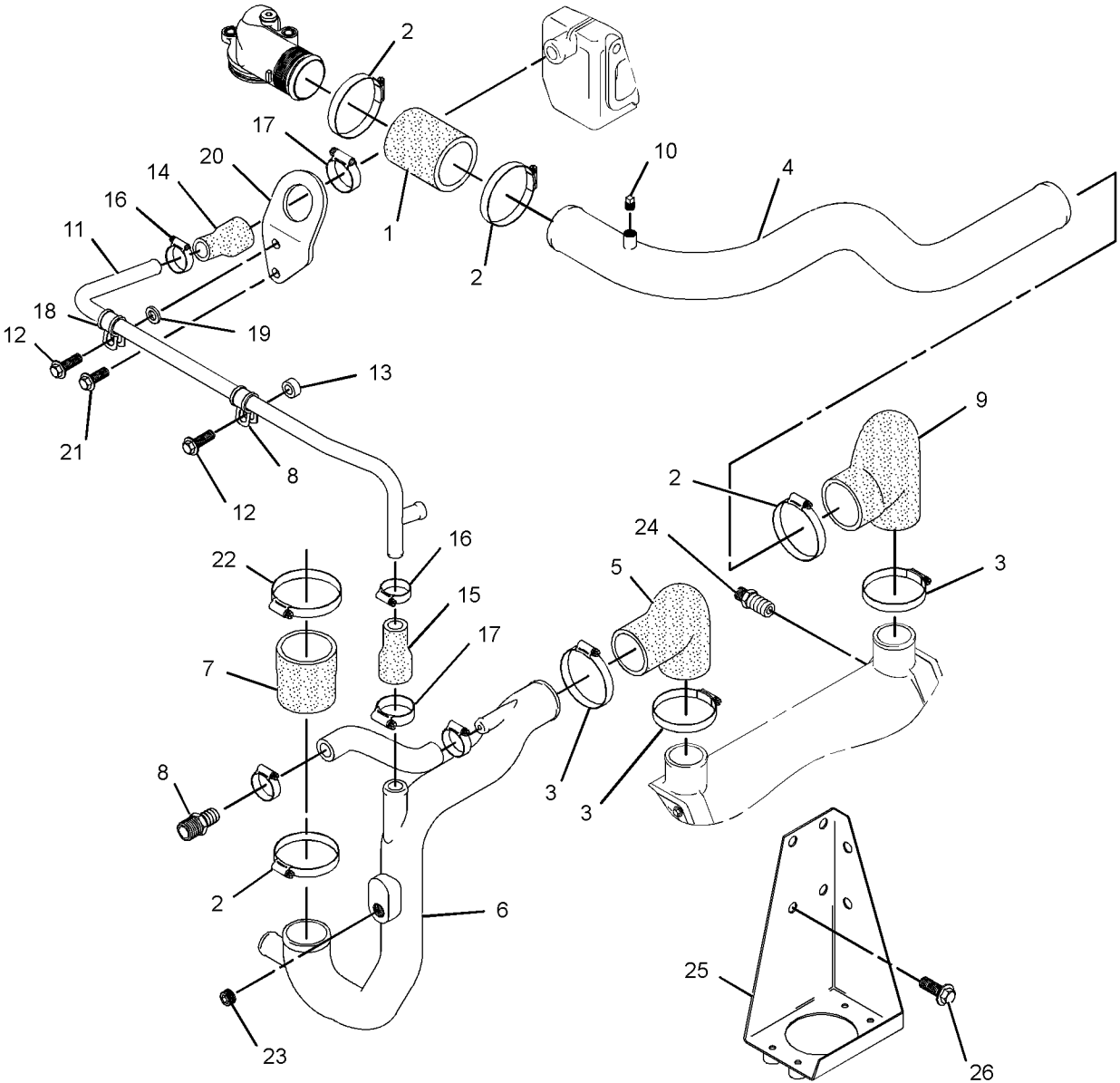
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5120	1	HOSE						
	2	1	9M-0164	4	CLAMP-HOSE						
	3	1	124-6260	3	CLAMP-HOSE						
	4	1	263-5162	1	TUBE						
	5	1	263-5164	1	HOSE						
	6	1	263-5166	1	TUBE						
	7	1	263-5168	1	HOSE						
	8	1	214-4131	1	ADAPTER						
	9	1	263-5173	1	HOSE						
	10	1	205-2294	1	PLUG-PIPE						
	11	1	271-0149	1	TUBE						
M	12	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
	13	1	089-7338	1	SLEEVE						
	14	1	263-5179	1	HOSE						
	15	1	263-5183	1	HOSE						
	16	1	5D-1026	2	CLAMP-HOSE						
	17	1	2S-3440	2	CLAMP-HOSE						
	18	1	193-5183	2	CLIP						
	19	1	263-5191	1	SPACER (11X19X3-MM THK)						
	20	1	263-5193	1	BRACKET						
M	21	1	6I-0654	1	BOLT (M10X1.5X25-MM)						
	22	1	196-0383	1	CLAMP-HOSE						
	23	1	195-4708	1	PLUG						
	24	1	214-0697	1	ADAPTER						
	25	1	214-0694	1	BRACKET						
	26	1	102-9941	2	BOLT (M12X1.75X25-MM)						

M-METRIC PART

COOLING SYSTEM

271-1337 LINES GP-WATER (contd.)

i02309237



GRAPHIC #1

<END>

g01157328

COOLING SYSTEM

272-4907 LINES GP-WATER

S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY, HEAT EXCHANGER
COOLED ENGINES ONLY
AN ATTACHMENT

SMCS-1355, 1380, 1393

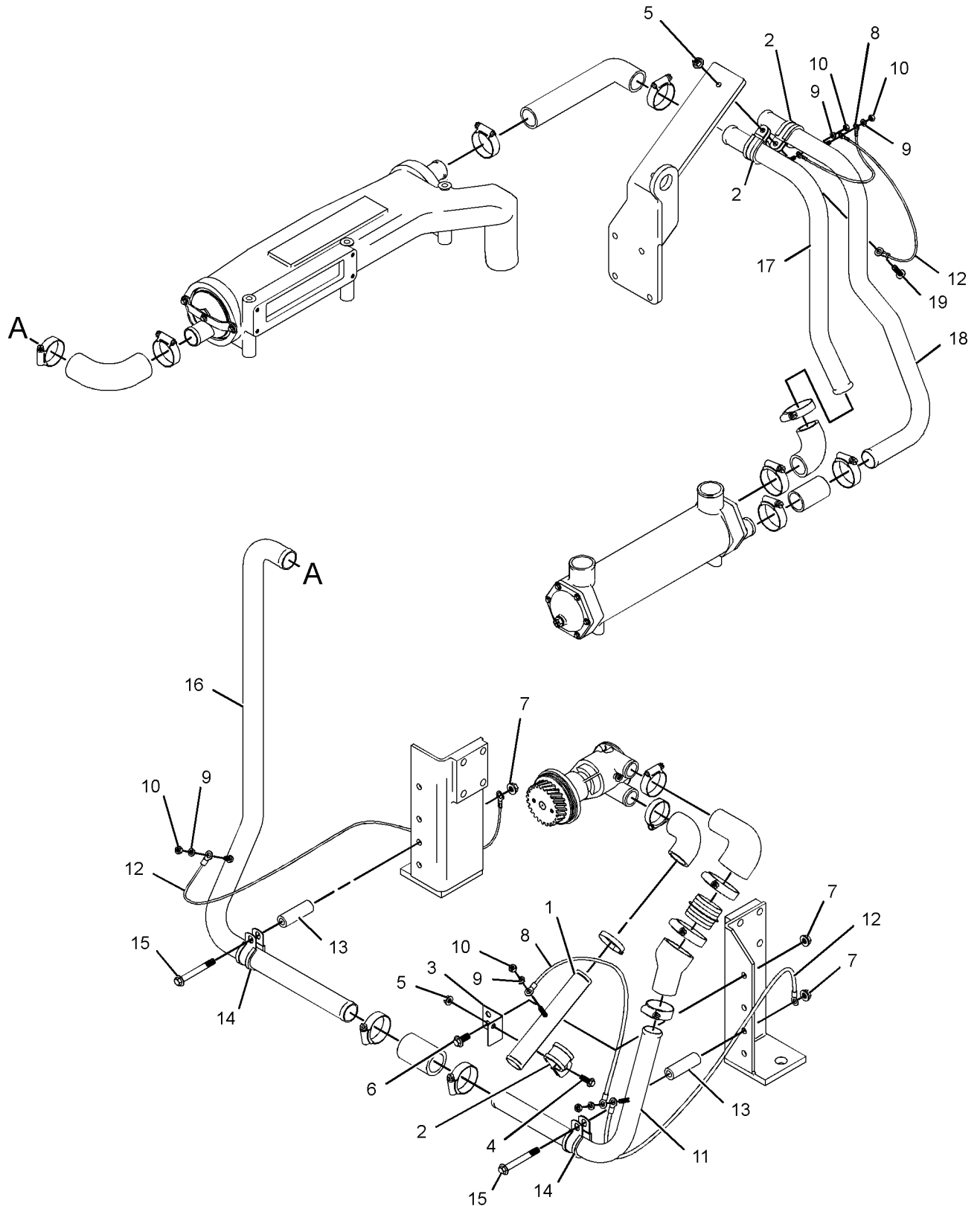
i02318792

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	210-6871	1	TUBE						
	2	1	193-5192	3	CLIP						
	3	1	210-6872	1	BRACKET						
M	4	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
	5	1	6I-0291	2	NUT (M8X1.25-THD)						
M	6	1	100-4830	1	BOLT (M10X1.5X20-MM)						
	7	1	6I-0594	3	NUT (M10X1.15-THD)						
	8	1	194-7181	2	WIRE AS-GROUND						
	9	1	194-7184	5	LOCKWASHER						
M	10	1	199-1291	5	NUT-BRASS (M6X1-THD)						
	11	1	272-4904	1	TUBE						
	12	1	196-0278	3	WIRE AS						
	13	1	263-5764	2	SPACER (11X20X60-MM THK)						
	14	1	193-5198	2	CLIP						
M	15	1	103-5687	2	BOLT (M10X1.5X85-MM)						
	16	1	268-9248	1	TUBE						
	17	1	272-4905	1	TUBE						
	18	1	272-4906	1	TUBE						
M	19	1	106-8720	1	BOLT (M8X1.25-THD)						
M-METRIC PART											

COOLING SYSTEM

272-4907 LINES GP-WATER (contd.)

i02318792



GRAPHIC #1

<END>

g01160383

COOLING SYSTEM

272-6941 LINES GP-WATER

S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY, HEAT EXCHANGER
COOLED ENGINES ONLY
AN ATTACHMENT

SMCS-1355, 1380, 1393

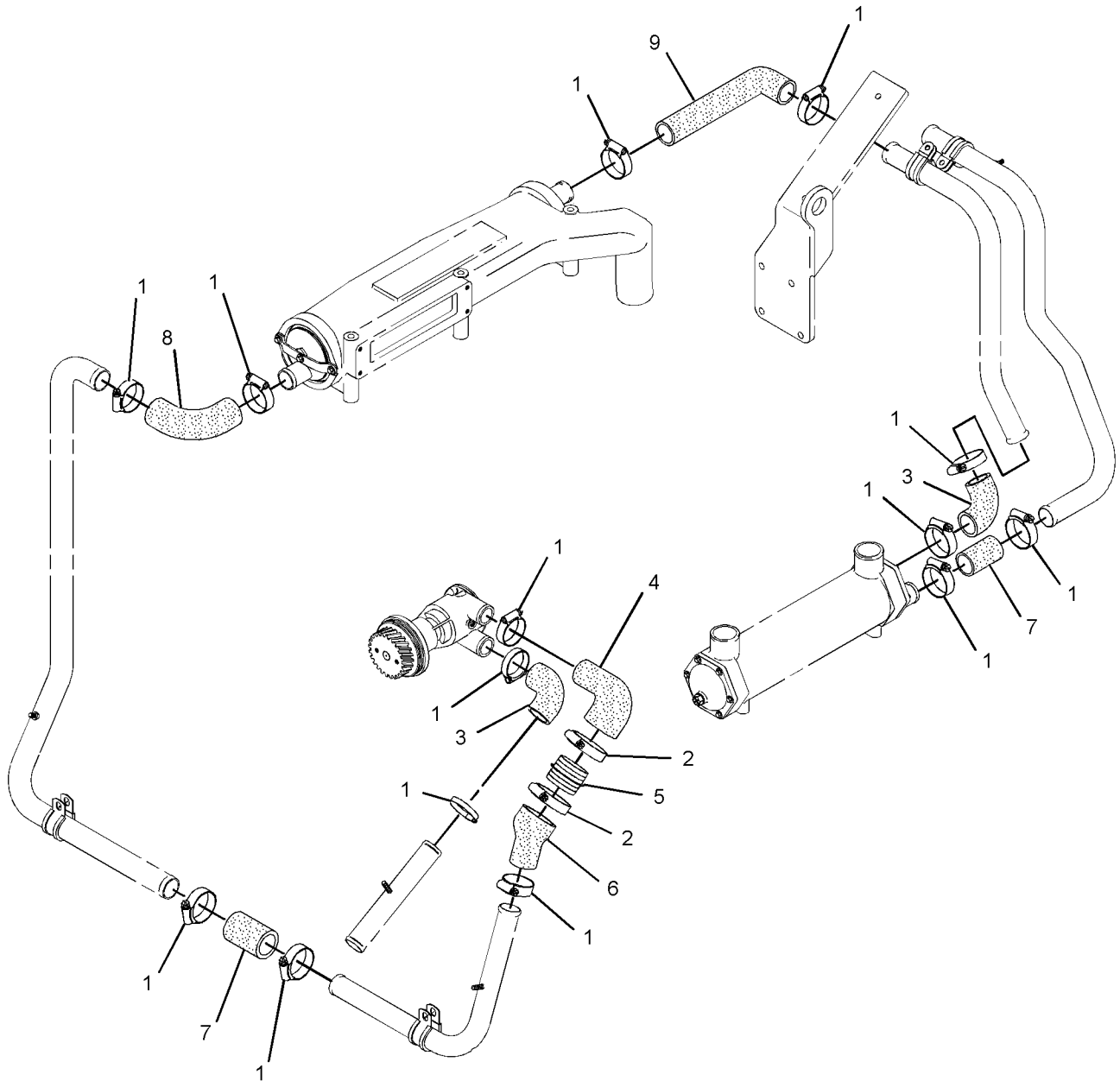
i02314957

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-2904	14	CLAMP-HOSE						
	2	1	9M-0164	2	CLAMP-HOSE						
	3	1	210-6873	2	HOSE						
	4	1	193-5122	1	HOSE-REDUCER						
	5	1	193-5105	1	STRAINER						
	6	1	205-2247	1	HOSE						
	7	1	193-5133	2	HOSE						
	8	1	268-9247	1	HOSE						
	9	1	272-6940	1	HOSE						

COOLING SYSTEM

272-6941 LINES GP-WATER (contd.)

i02314957



GRAPHIC #1

<END>

g01160389

COOLING SYSTEM

287-1940 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02516106

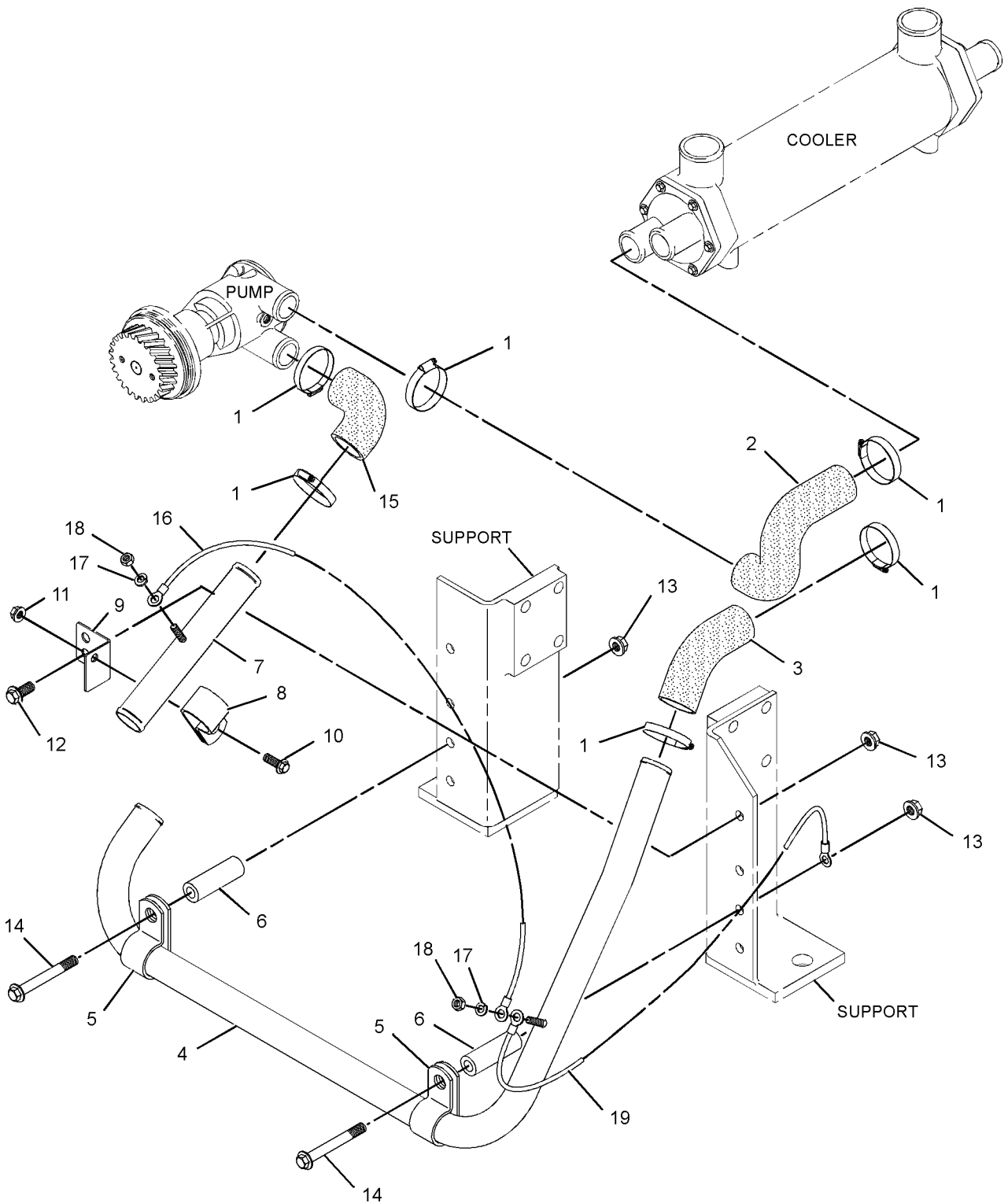
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-2904	6	CLAMP-HOSE						
	2	1	210-6869	1	HOSE						
	3	1	193-5132	1	HOSE-ELBOW						
	4	1	263-5763	1	TUBE						
	5	1	193-5198	2	CLIP						
	6	1	263-5764	2	SPACER (11X20X60-MM THK)						
	7	1	210-6871	1	TUBE						
	8	1	193-5192	1	CLIP						
	9	1	210-6872	1	BRACKET						
M	10	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
	11	1	6I-0291	1	NUT (M8X1.25-THD)						
M	12	1	100-4830	1	BOLT (M10X1.5X20-MM)						
	13	1	6I-0594	3	NUT (M10X1.15-THD)						
M	14	1	103-5687	2	BOLT (M10X1.5X85-MM)						
	15	1	210-6873	1	HOSE						
	16	1	287-1938	1	WIRE AS						
	17	1	194-7184	2	LOCKWASHER						
M	18	1	199-1291	2	NUT-BRASS (M6X1-THD)						
	19	1	287-1939	1	WIRE AS						

M-METRIC PART

COOLING SYSTEM

287-1940 LINES GP-WATER (contd.)

i02516106



GRAPHIC #1

<END>

g01267419

COOLING SYSTEM

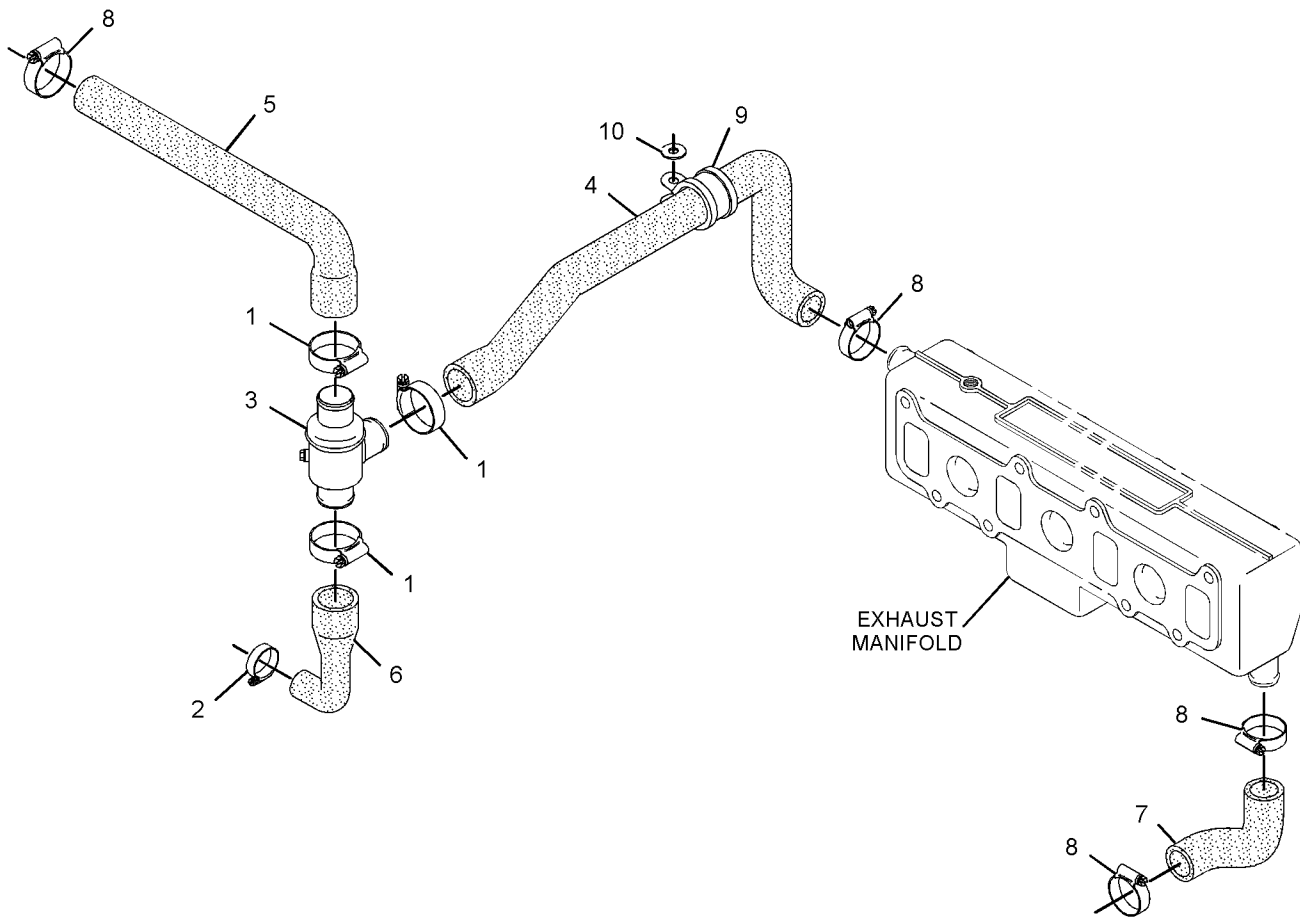
293-0745 LINES GP-WATER

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1355, 1380, 1393

i02544904

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	124-6258	3	CLAMP - HOSE						
	2	1	5D-1026	1	CLAMP - HOSE						
	3	1	293-0747	1	REGULATOR-WATER TEMPERATURE						
	4	1	293-0749	1	HOSE						
	5	1	293-0750	1	HOSE						
	6	1	293-0751	1	HOSE						
	7	1	263-5668	1	HOSE						
	8	1	2S-3440	4	CLAMP - HOSE						
	9	1	193-5198	1	CLIP						
	10	1	8T-4121	1	WASHER-HARD (11X21X2.5-MM THK)						



GRAPHIC #1

<END>

g01277666

COOLING SYSTEM

230-7355 PUMP GP-WATER

S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1361

i02317471

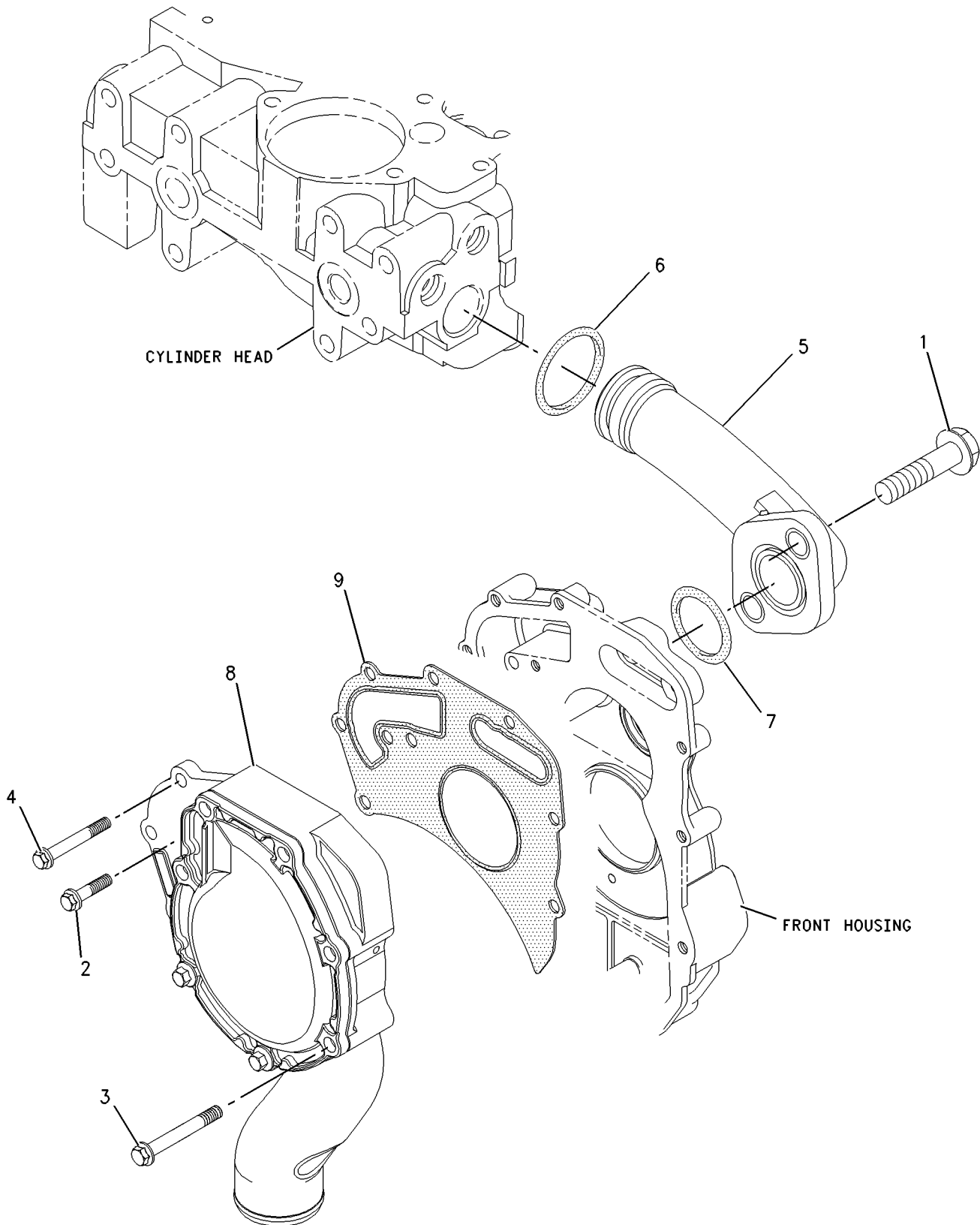
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0254	2	BOLT (M8X1.25X30-MM)						
M	3	1	100-3751	5	BOLT (M8X1.25X65-MM)						
	4	1	113-8129	2	BOLT (M8X75-MM)						
	5	1	225-7741	1	CONNECTION AS						
	6	1	225-7738	1	SEAL-O-RING						
	7	1	225-7739	1	SEAL-O-RING						
	8	1	225-8016	1	PUMP GP-WATER						
		1	247-0144	1	KIT-WATER PUMP						
	9	1	225-8019	1	GASKET						

M-METRIC PART

COOLING SYSTEM

230-7355 PUMP GP-WATER (contd.)

i02317471



GRAPHIC #1

<END>

g00912411

COOLING SYSTEM

263-7530 PUMP GP-WATER

S/N: L1K1-UP; S1M1-UP

FOR USE WITH HEAT EXCHANGER COOLED ENGINES. CANNOT BE USED WITH KEEL COOLED ENGINES

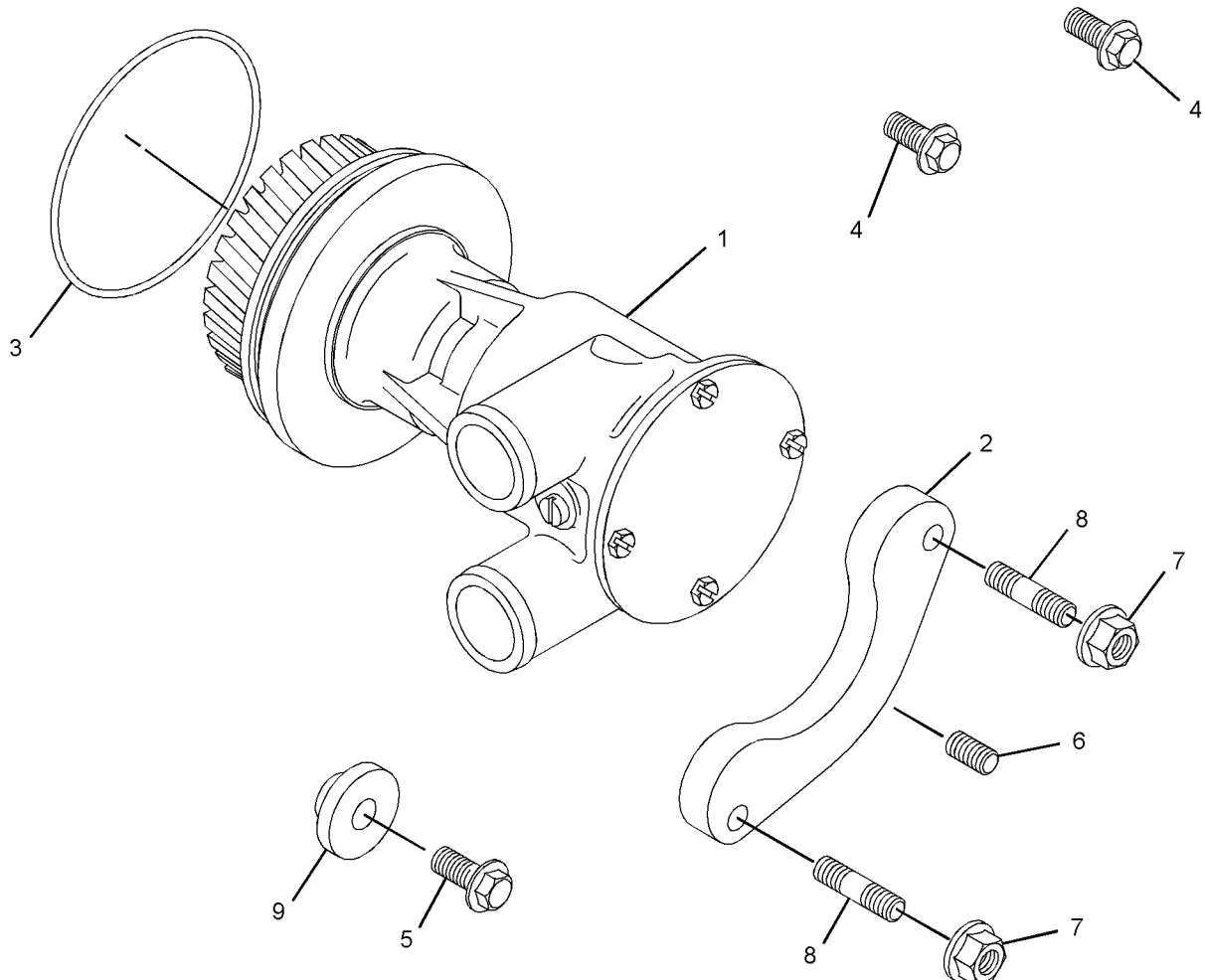
AN ATTACHMENT

SMCS-1361

i02419185

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE		
					1	2	3	4	5	6 (PRODUCT LEVEL)			
Y	1	1	263-7531	1	PUMP GP-WATER						128		
	2	1	194-7205	1	PLATE-CLAMP								
	3	1	194-7151	1	SEAL-O-RING								
	4	1	113-4597	2	BOLT (M8X10-MM)								
	5	1	6I-0303	1	BOLT (M10X1.5X30-MM)								
	6	1	6I-0840	1	STUD (M8X20-MM)								
	7	1	100-3752	2	STUD (M8X30-MM)								
	8	1	6I-0291	2	NUT (M8X1.25-THD)								
	9	1	194-7206	1	WASHER								
					AVAILABLE REPAIR KIT(S):								
					278-8697	1	KIT-SERVICE (WATER PUMP)						
					(INCLUDES IMPELLER, END COVER SCREWS, END COVER SEAL, AND LIP SEAL)								

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01148886

COOLING SYSTEM

263-7531 PUMP GP-WATER

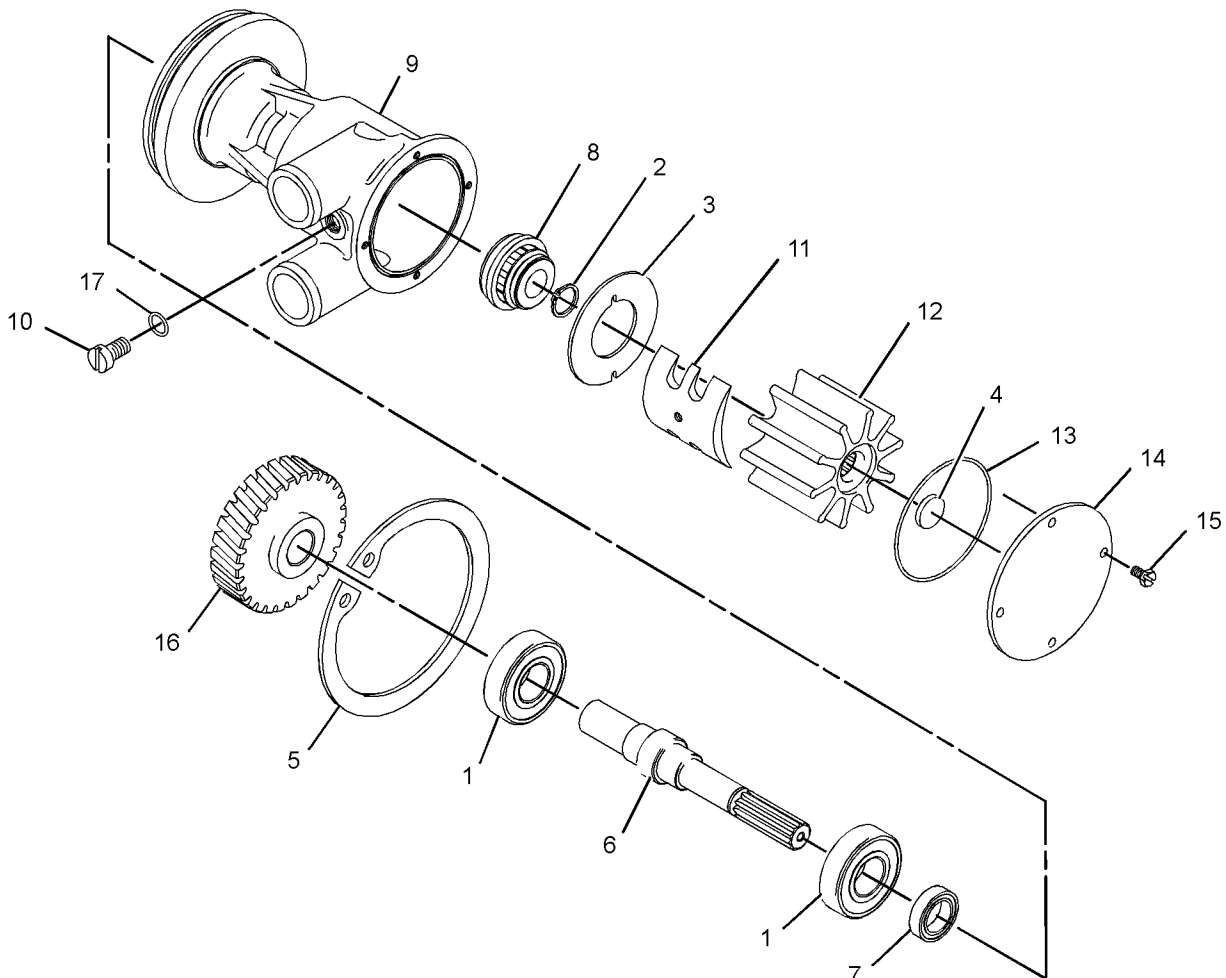
S/N: L1K1-UP; S1M1-UP

PART OF 263-7530 PUMP GP-WATER
AN ATTACHMENT

SMCS-1361

i02314937

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7F-9993	2	BALL BEARING						
	2	1	196-0387	1	RING-RETAINING						
	3	1	196-0388	1	PLATE-WEAR						
	4	1	196-0393	1	SEAL						
	5	1	196-0397	1	RING-RETAINING						
	6	1	196-0399	1	SHAFT-PUMP						
	7	1	199-1336	1	SEAL-SHAFT						
	8	1	205-3018	1	SEAL						
	9	1	263-7532	1	HOUSING-PUMP						
	10	1	263-7533	1	SCREW						
	11	1	263-7535	1	CAM						
	12	1	263-7536	1	IMPELLER-PUMP						
	13	1	263-7537	1	SEAL-O-RING						
	14	1	263-7538	1	COVER-PUMP						
	15	1	263-7539	4	SCREW						
	16	1	263-7540	1	GEAR						
	17	1	263-7541	1	SEAL-O-RING						



GRAPHIC #1

<END>

g01160036

COOLING SYSTEM

268-3870 TANK GP-COOLANT

S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1377

i02327209

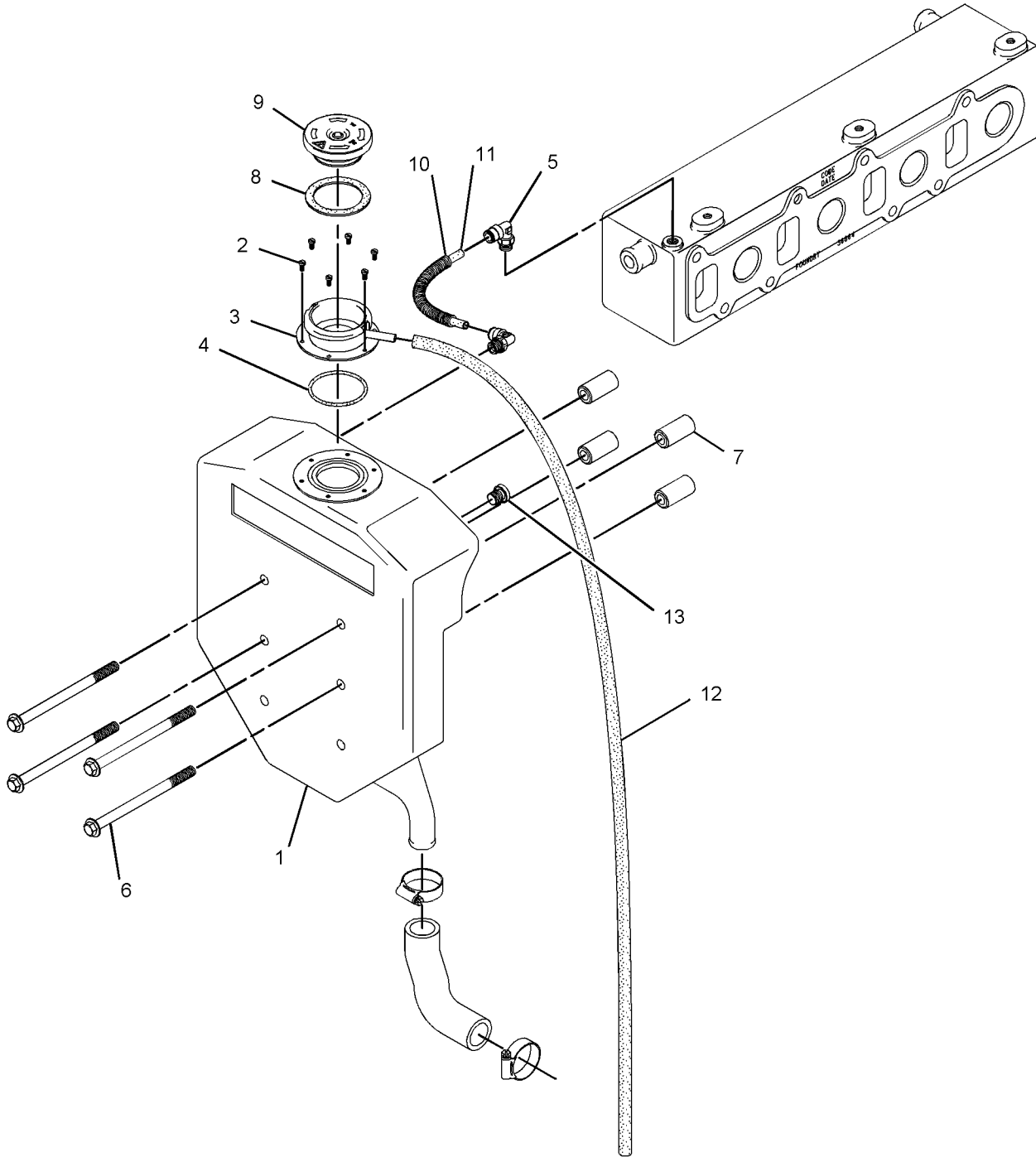
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-5632	1	TANK AS (COOLANT)						
M	2	1	161-7619	6	SCREW (M4X10-MM)						
	3	1	245-6013	1	ADAPTER						
	4	1	245-6014	1	SEAL-O-RING						
	5	1	263-5639	2	ELBOW						
	6	1	153-0709	4	BOLT (M10X1.5X140-MM)						
	7	1	263-5640	4	SPACER (11X20X40-MM THK)						
	8	1	210-6738	1	GASKET (EXPANSION TANK CAP)						
	9	1	230-5119	1	CAP-PRESSURE (7-PSI) (EXPANSION TANK)						
E	10	1	197-3800		LOOM (22-CM)						
E	11	1	265-2757		HOSE (27-CM)						
	12	1	205-2260	1	HOSE						
	13	1	263-5647	1	PLUG						

E-ORDER BY THE CENTIMETER
M-METRIC PART

COOLING SYSTEM

268-3870 TANK GP-COOLANT (contd.)

i02327209



GRAPHIC #1

<END>

g01146736

COOLING SYSTEM

271-0108 TANK GP-COOLANT

S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES ONLY. CANNOT BE USED WITH HEAT EXCHANGER
COOLED ENGINES
AN ATTACHMENT

SMCS-1377

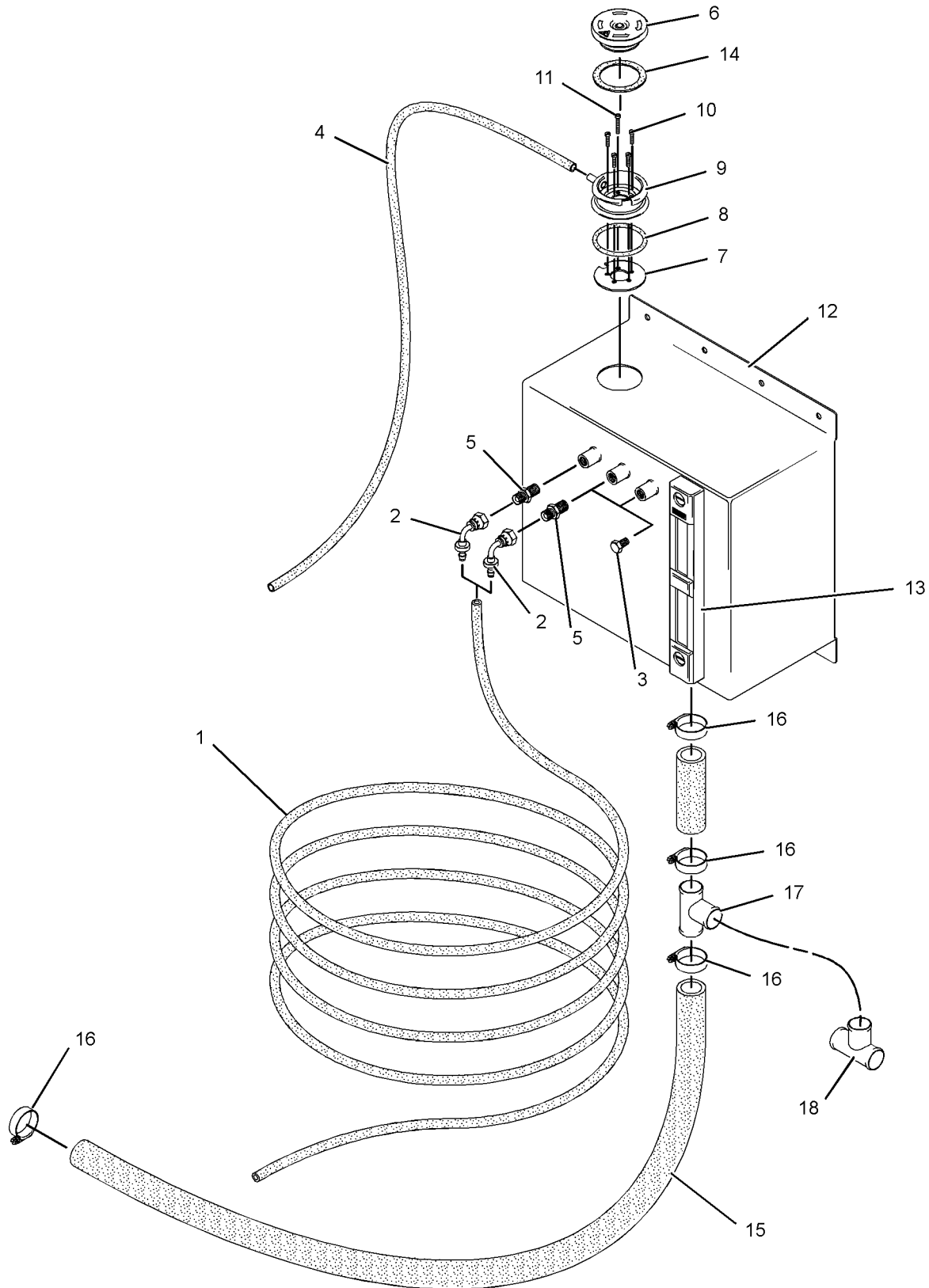
i02330711

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	234-2610	1	HOSE						
	2	1	193-5187	2	COUPLING-HOSE						
	3	1	194-7148	2	PLUG						
	4	1	205-2260	1	HOSE						
	5	1	213-7483	2	ADAPTER						
	6	1	230-5119	1	CAP-PRESSURE (7-PSI) (EXPANSION TANK)						
	7	1	213-7487	1	RING						
	8	1	213-7488	1	SEAL-O-RING						
	9	1	213-7491	1	TUBE AS-FILLER						
	10	1	195-4677	4	SCREW-MACHINE (M4X16-MM)						
	11	1	213-7489	1	SCREW (M4X25-MM)						
	12	1	213-7490	1	TANK (COOLANT)						
	13	1	213-7482	1	GAUGE-SIGHT (FLUID LEVEL) (COOLANT)						
	14	1	210-6738	1	GASKET (EXPANSION TANK CAP)						
	15	1	234-2611	1	HOSE						
	16	1	124-6258	4	CLAMP-HOSE						
	17	1	271-0109	1	TEE						
	18	1	271-0110	1	TEE						

COOLING SYSTEM

271-0108 TANK GP-COOLANT (contd.)

i02330711



GRAPHIC #1

<END>

g01153169

COOLING SYSTEM

263-5658 TANK GP-EXPANSION

S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES, KEEL COOLED ENGINES

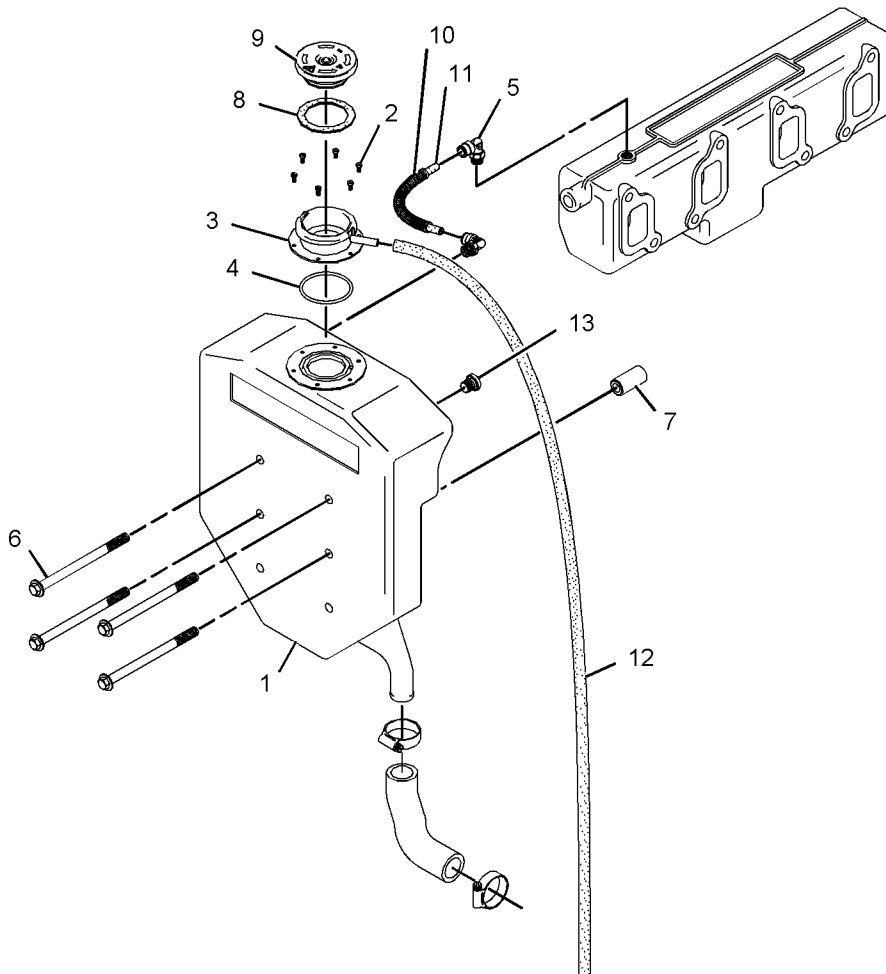
AN ATTACHMENT

SMCS-1354

i02327216

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-5632	1	TANK AS						
M	2	1	161-7619	6	SCREW (M4X10-MM)						
	3	1	245-6013	1	ADAPTER						
	4	1	245-6014	1	SEAL-O-RING						
	5	1	263-5639	2	ELBOW						
	6	1	153-0709	4	BOLT (M10X1.5X140-MM)						
	7	1	263-5640	4	SPACER (11X20X40-MM THK)						
	8	1	210-6738	1	GASKET (EXPANSION TANK CAP)						
	9	1	230-5119	1	CAP-PRESSURE (7-PSI) (EXPANSION TANK)						
E	10	1	197-3800		LOOM (27-CM)						
E	11	1	265-2757		HOSE (33-CM)						
	12	1	205-2260	1	HOSE						
	13	1	263-5647	1	PLUG						

E-ORDER BY THE CENTIMETER
M-METRIC PART



GRAPHIC #1

<END>

g01146714

COOLING SYSTEM

269-1895 TANK GP-EXPANSION

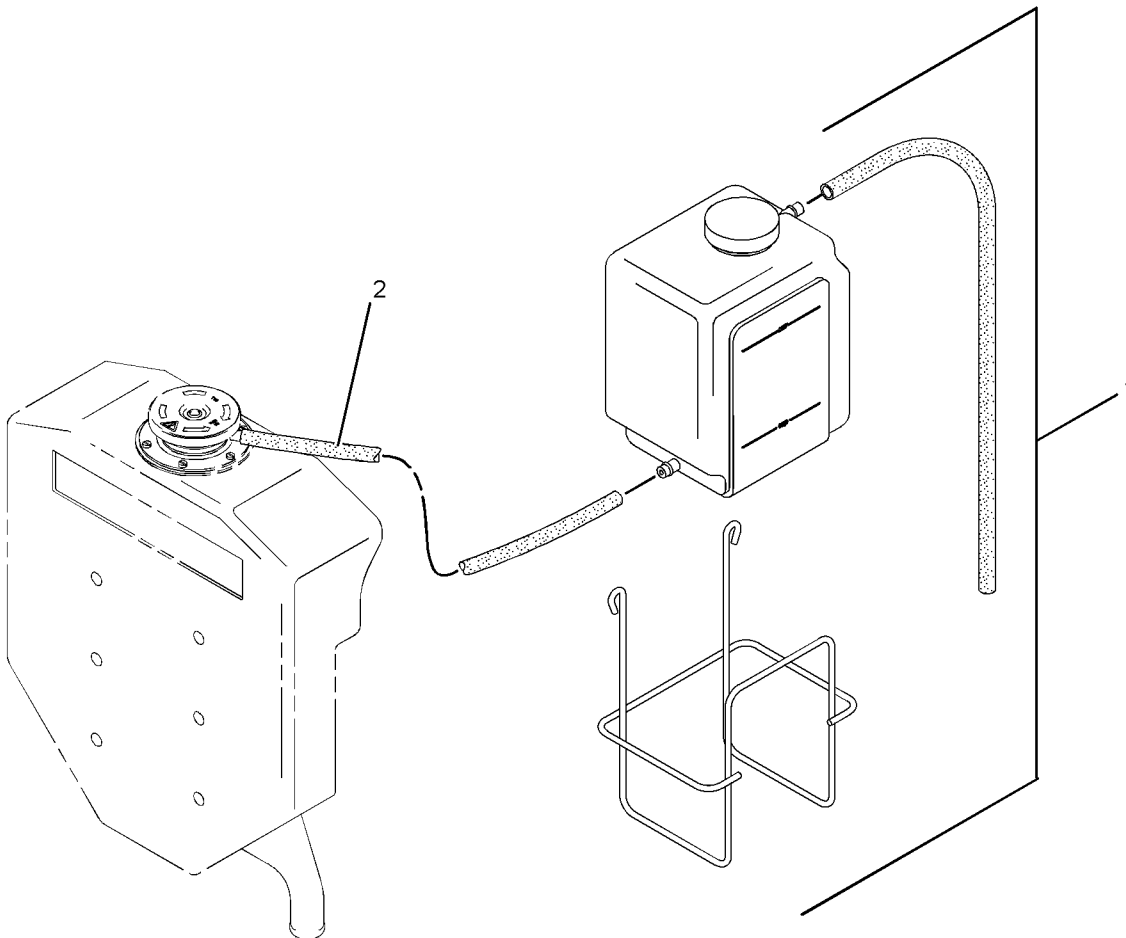
S/N: L1K1-UP; S1M1-UP

FOR USE WITH HEAT EXCHANGER COOLED ENGINES. CANNOT BE USED WITH KEEL COOLED ENGINES
AN ATTACHMENT

SMCS-1354

i02290368

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	245-1235	1	TANK GP-EXPANSION						
	2	1	245-1236	1	HOSE						



GRAPHIC #1

<END>

g01147795

COOLING SYSTEM

289-0458 TUBE AS

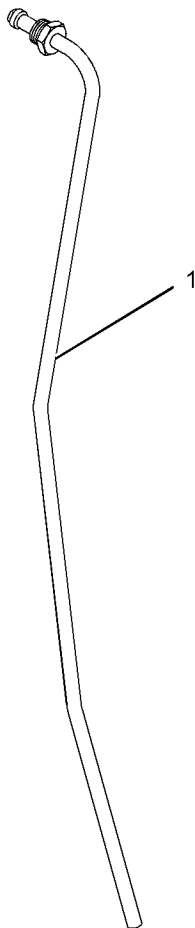
S/N: L1K1-UP; S1M1-UP

AN ATTACHMENT

SMCS-1374, 5057

i02539336

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-0459	1	TUBE - FUEL						



GRAPHIC #1

<END>

g01273801

AIR INLET AND EXHAUST SYSTEM

265-7802 AFTERCOOLER GP

S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1063

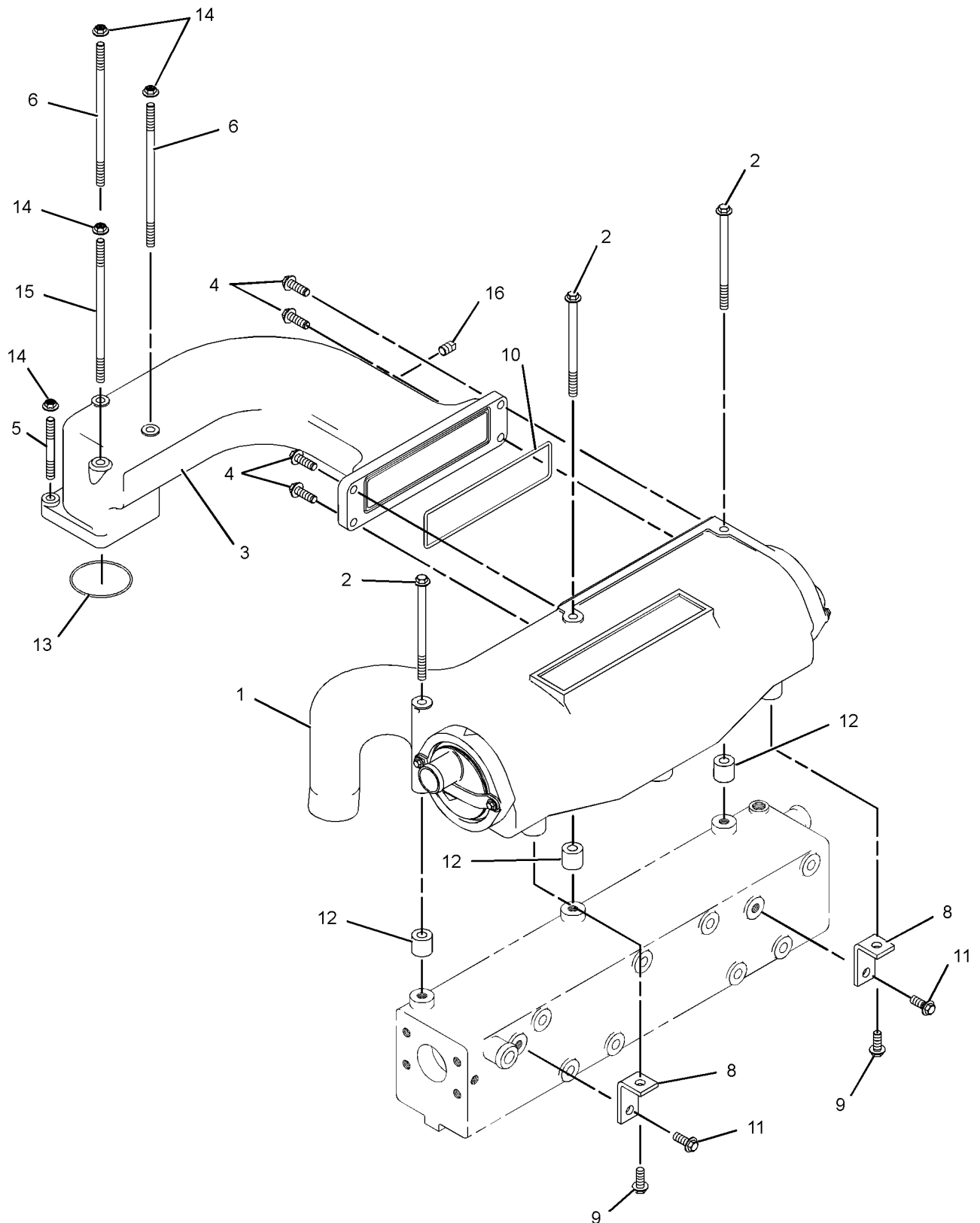
i02288800

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	265-7178	1	AFTERCOOLER AS						
	2	1	153-0709	3	BOLT (M10X1.5X140-MM)						
	3	1	265-7804	1	DUCT						
M	4	1	6I-0260	4	BOLT (M8X1.25X25-MM)						
	5	1	100-3753	1	STUD						
	6	1	265-7806	2	STUD						
	8	1	265-7180	2	BRACKET						
M	9	1	124-3815	2	BOLT (M8X16X1.25-MM)						
	10	1	265-7808	1	SEAL-O-RING						
M	11	1	100-4830	2	BOLT (M10X1.5X20-MM)						
	12	1	9R-5383	3	BOSS						
	13	1	194-7227	1	SEAL-O-RING						
	14	1	6I-0291	4	NUT (M8X1.25-THD)						
	15	1	230-5120	1	STUD						
	16	1	035-8063	1	PLUG						
M-METRIC PART											

AIR INLET AND EXHAUST SYSTEM

265-7802 AFTERCOOLER GP (contd.)

i02288800



GRAPHIC #1

<END>

g01148971

AIR INLET AND EXHAUST SYSTEM

233-5180 AIR CLEANER GP

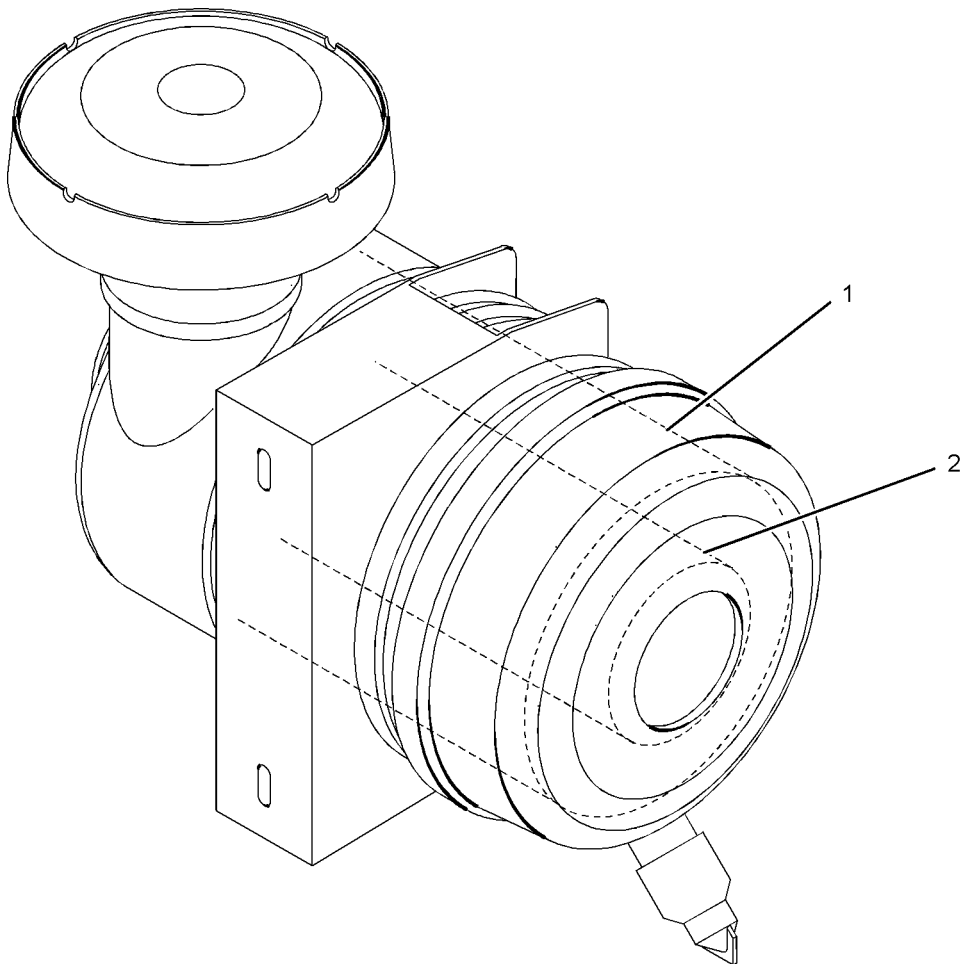
S/N: L1K1-UP; S1M1-UP

PART OF 268-6276, 292-0468 AIR CLEANER GP
AN ATTACHMENT

SMCS-1051, 1054

i02309731

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	233-5182	1	FILTER ELEMENT AS-AIR (PRIMARY)						
	2	1	233-5184	1	FILTER ELEMENT AS-AIR (SECONDARY)						



GRAPHIC #1

<END>

g01086817

AIR INLET AND EXHAUST SYSTEM

252-8751 AIR CLEANER GP

S/N: S1M1-UP

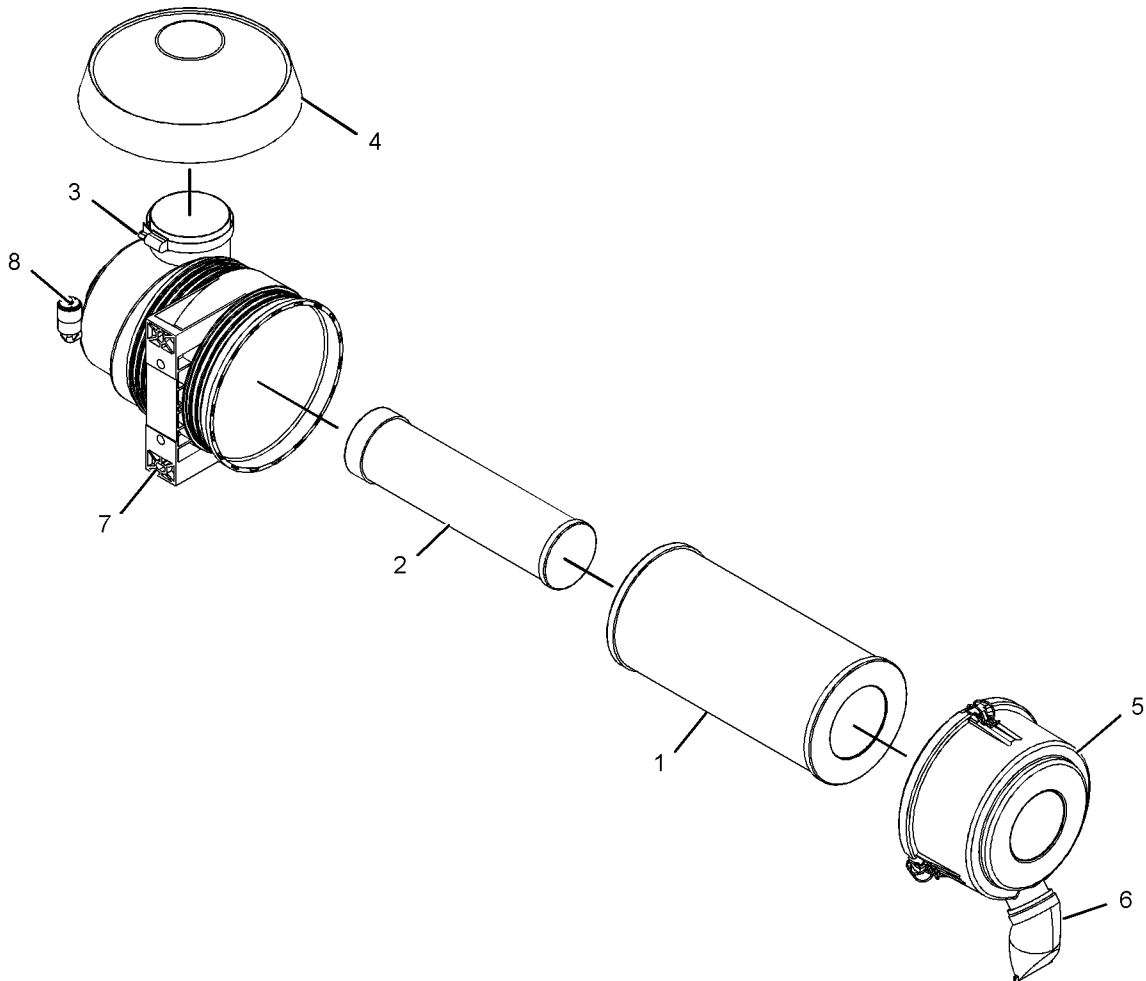
8 INCH DIAMETER

PART OF 269-3099 AIR CLEANER GP
AN ATTACHMENT

SMCS-1051, 1054

i02623694

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	110-6326	1	FILTER ELEMENT AS-AIR (PRIMARY)						
	2	1	110-6331	1	FILTER ELEMENT AS-AIR (SECONDARY)						
	3	1	9M-6738	1	CLAMP-HOSE						
	4	1	101-7856	1	CAP (AIR CLEANER)						
	5	1	127-9376	1	COVER						
	6	1	127-9377	1	VALVE-AIR CLEANER DUST						
	7	1	175-2584	1	BRACKET						
	8	1	252-9208	1	INDICATOR-AIR FILTER CHANGE						



GRAPHIC #1

<END>

g01078182

AIR INLET AND EXHAUST SYSTEM

254-0076 AIR CLEANER GP

S/N: L1K1-UP; S1M1-UP

7 INCH DIAMETER

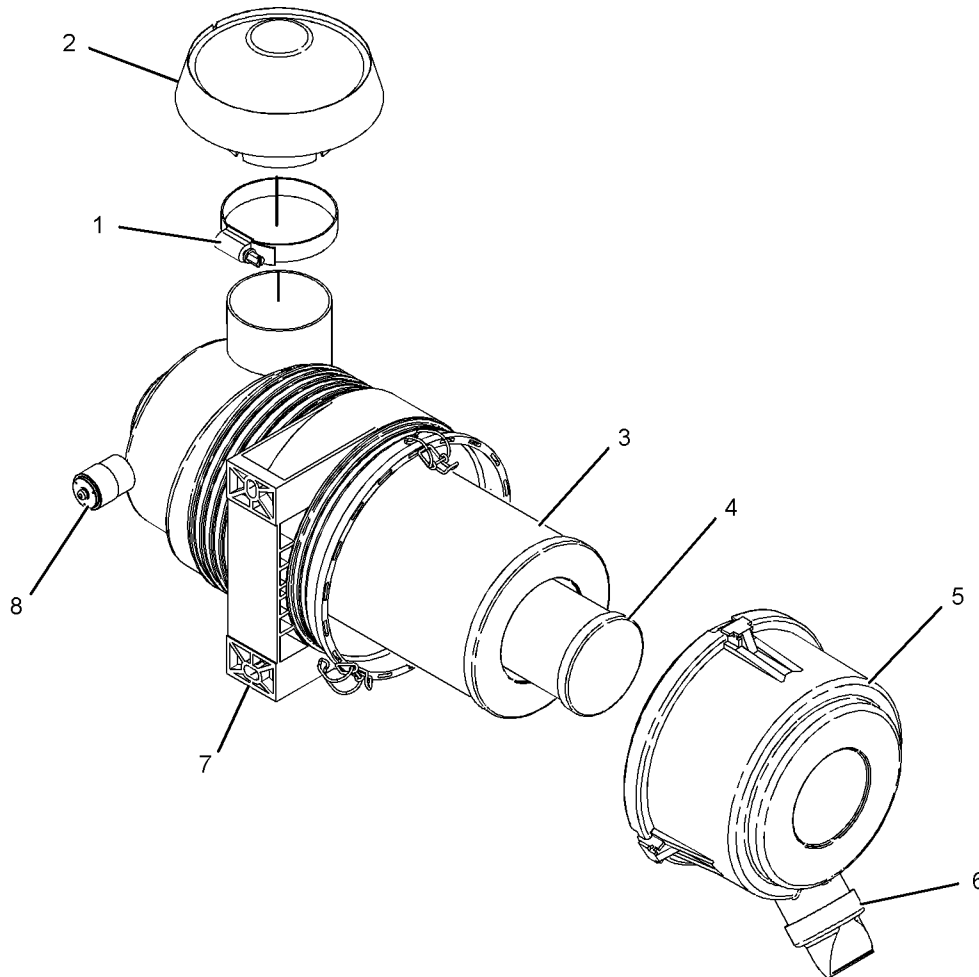
PART OF 265-6528 AIR CLEANER GP

AN ATTACHMENT

SMCS-1051, 1054

i02623718

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	9M-7959	1	CLAMP-HOSE						
	2	1	101-7856	1	CAP (AIR CLEANER)						
	3	1	123-2367	1	FILTER ELEMENT-AIR (PRIMARY)						
	4	1	123-2368	1	FILTER ELEMENT-AIR (SECONDARY)						
	5	1	127-9674	1	COVER						
	6	1	127-9675	1	VALVE-AIR CLEANER DUST						
	7	1	127-9676	1	CLAMP						
	8	1	252-9208	1	INDICATOR-AIR FILTER CHANGE						



GRAPHIC #1

<END>

g01095628

AIR INLET AND EXHAUST SYSTEM

264-8940 AIR CLEANER GP

S/N: S1M1-UP

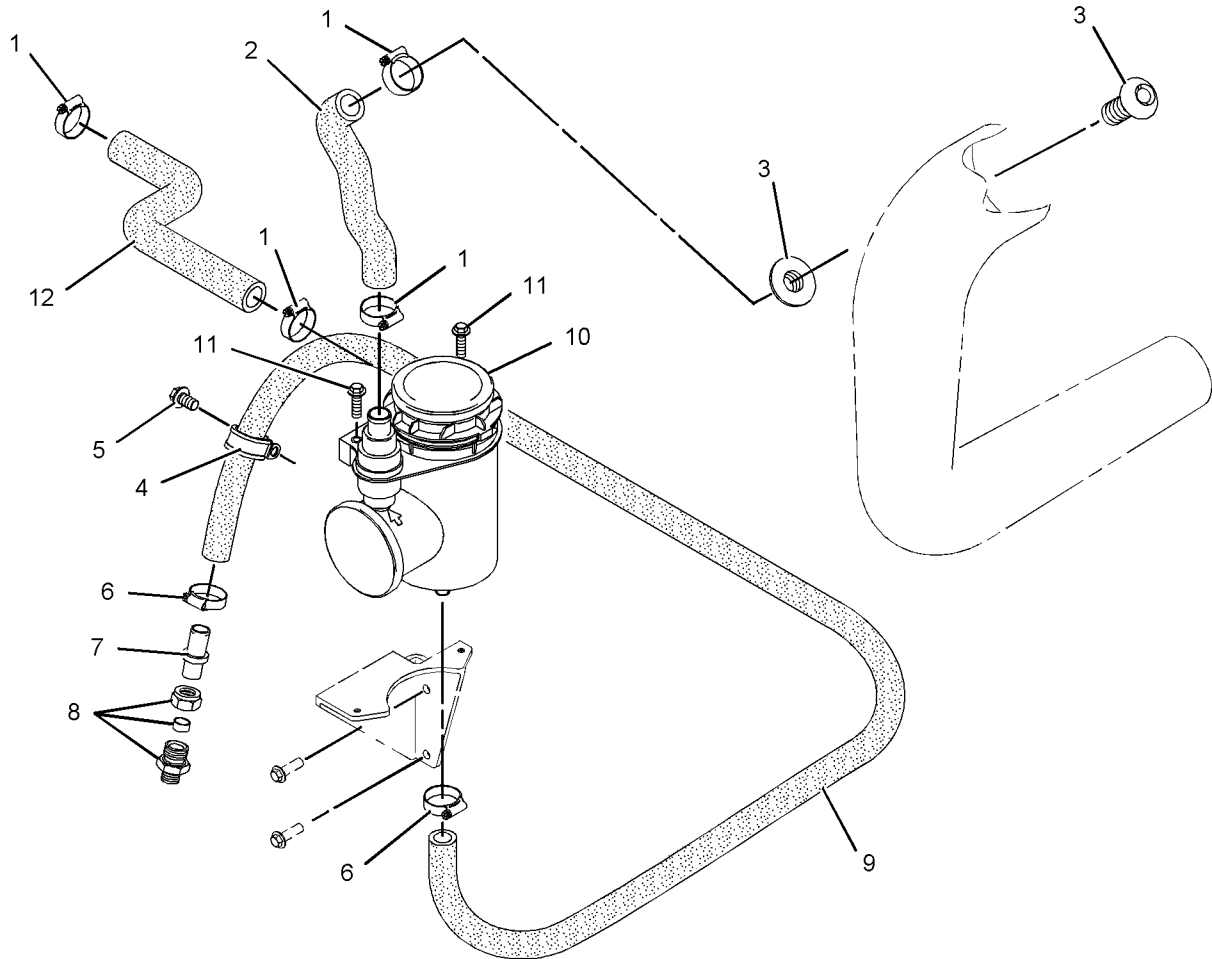
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1051, 1054

i02623719

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5141	4	CLAMP-HOSE						
	2	1	264-8909	1	HOSE (BREATHER TURBO)						
	3	1	210-6977	1	ADAPTER						
	4	1	1S-0994	1	CLIP						
	5	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	6	1	230-5811	2	CLAMP-HOSE						
	7	1	216-9618	1	VALVE-CHECK						
	8	1	264-8914	1	ADAPTER						
E	9	1	268-6427		HOSE (100-CM) (CRANKCASE BREATHER LOWER)						
	10	1	262-1044	1	BREATHER AS (CRANKCASE)						
		1	229-3555	1	FILTER-BREATHER (CLOSED CIRCUIT CRANKCASE)						
		1	262-1046	1	SEAL-O-RING (CRANKCASE BREATHER)						
	11	1	112-7704	2	BOLT						
	12	1	264-8924	1	HOSE (CRANKCASE BREATHER UPPER)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01147982

AIR INLET AND EXHAUST SYSTEM

265-6528 AIR CLEANER GP

S/N: L1K1-UP; S1M1-UP

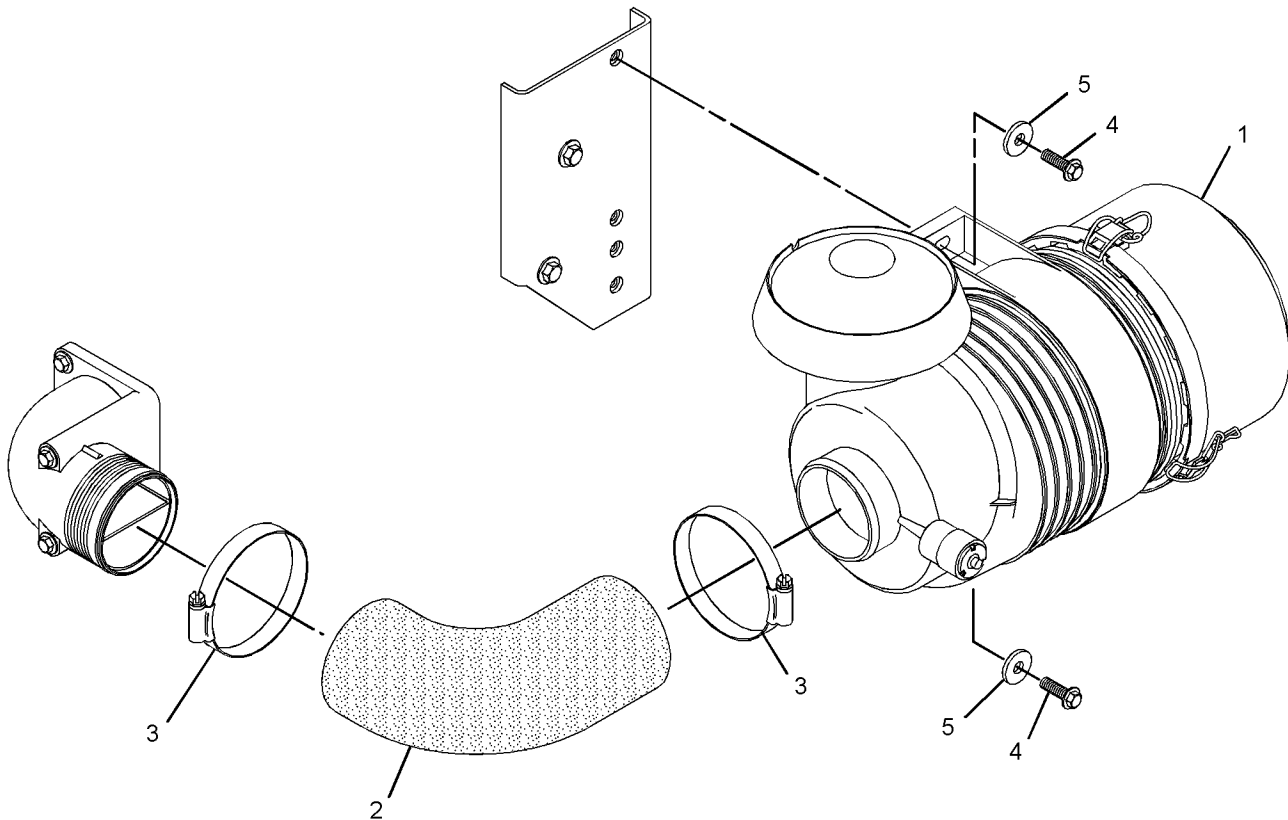
FOR USE WITH NATURALLY ASPIRATED ENGINES
AN ATTACHMENT

SMCS-1051, 1054

i02308800

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	254-0076	1	AIR CLEANER GP						140
	2	1	265-6526	1	HOSE						
	3	1	265-6527	2	CLIP						
M	4	1	6I-0260	2	BOLT (M8X1.25X25-MM)						
	5	1	8C-0572	2	WASHER (8.8X25.5X2-MM THK)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01159436

AIR INLET AND EXHAUST SYSTEM

268-6276 AIR CLEANER GP

S/N: S1M1-UP

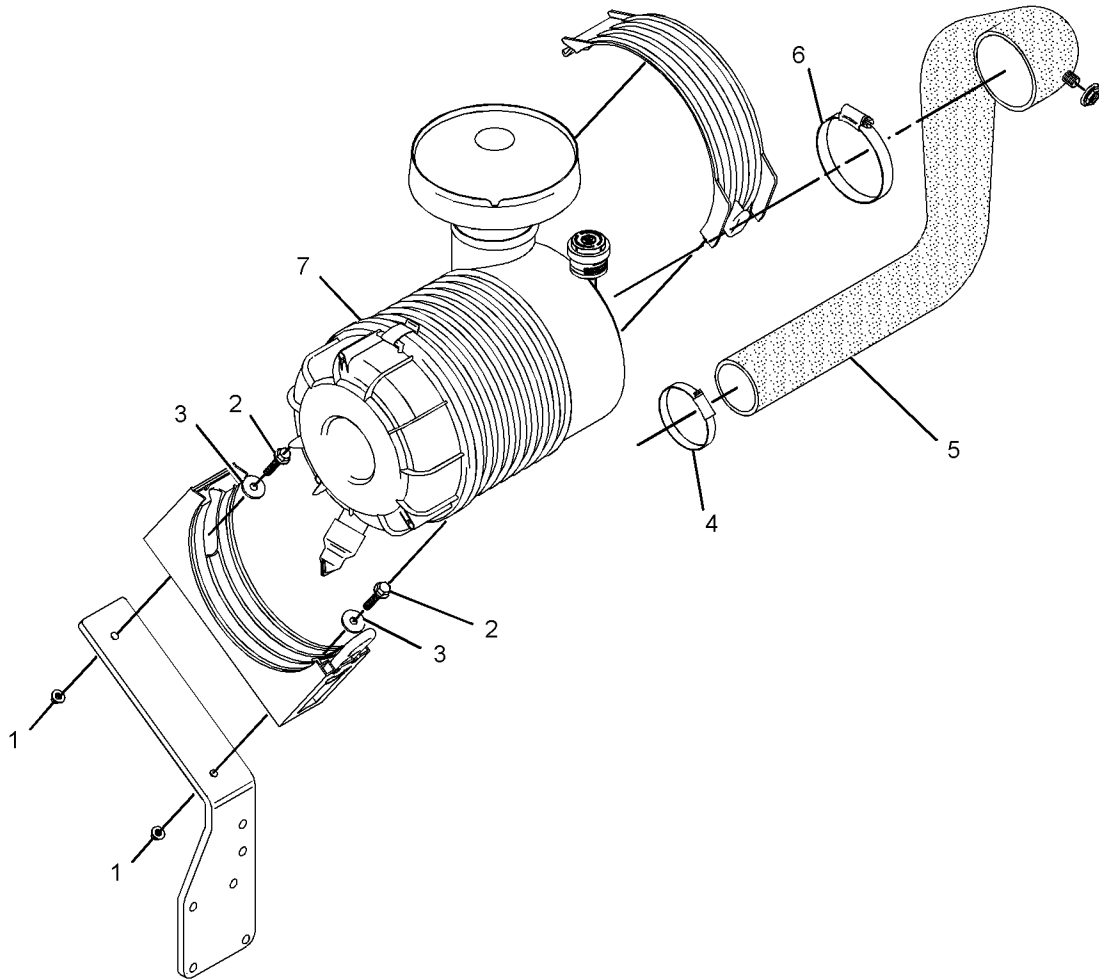
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1051, 1054

i02288988

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0291	2	NUT (M8X1.25-THD)						
	2	1	6I-1090	2	BOLT (M8X1.25X40-MM)						
	3	1	8C-0572	2	WASHER (8.8X25.5X2-MM THK)						
	4	1	2J-6540	1	CLAMP (HOSE)						
	5	1	268-6277	1	HOSE						
	6	1	6V-3582	1	CLAMP-HOSE						
Y	7	1	233-5180	1	AIR CLEANER GP						138

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01159473

AIR INLET AND EXHAUST SYSTEM

269-3099 AIR CLEANER GP

S/N: S1M1-UP

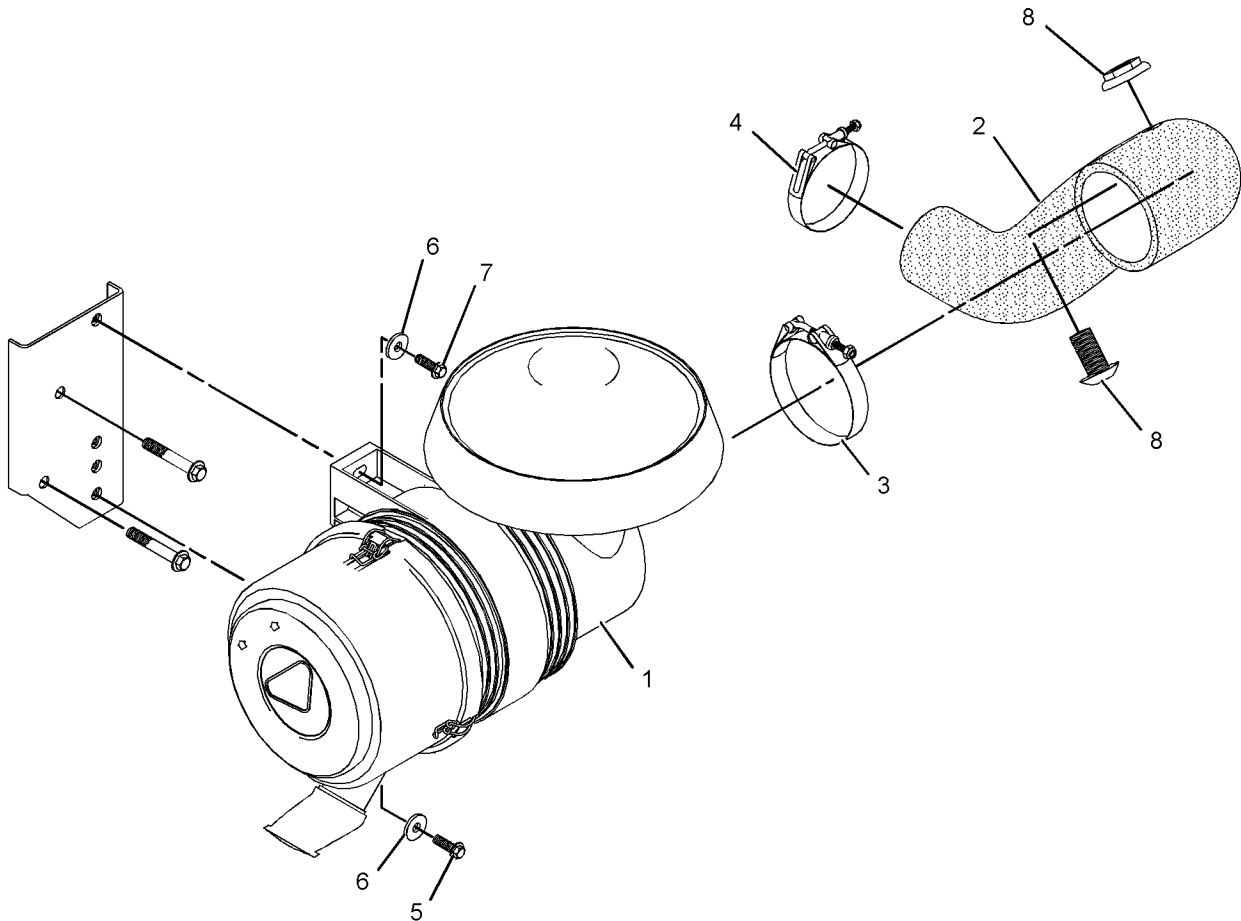
CANNOT BE USED WITH NATURALLY ASPIRATED ENGINES, TURBOCHARGED AND
AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1051, 1054

i02301197

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	252-8751	1	AIR CLEANER GP						139
	2	1	269-3100	1	HOSE						
	3	1	101-7860	1	CLIP						
	4	1	101-7861	1	CLIP						
M	5	1	6I-0260	1	BOLT (M8X1.25X25-MM)						
	6	1	8C-0572	2	WASHER (8.8X25.5X2-MM THK)						
	7	1	6I-1090	1	BOLT (M8X1.25X40-MM)						
	8	1	210-6977	1	ADAPTER						

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01157330

AIR INLET AND EXHAUST SYSTEM

292-0468 AIR CLEANER GP

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

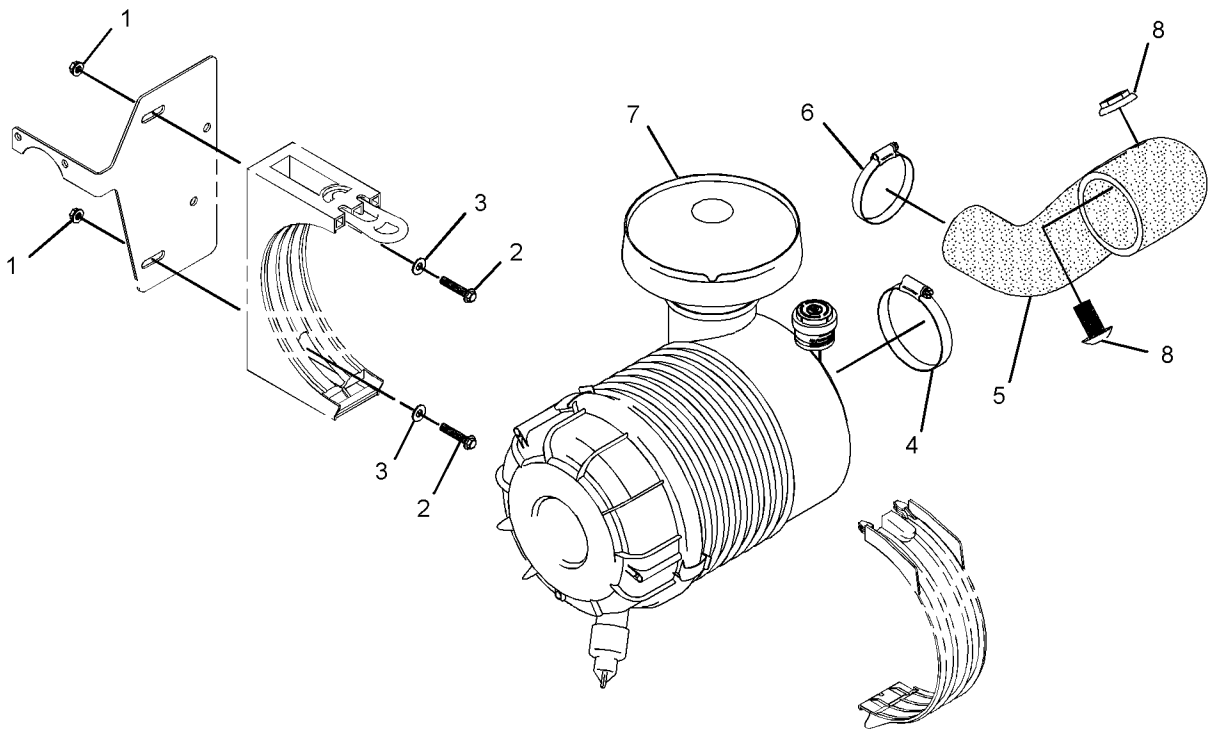
SMCS-1051, 1054

i02540712

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0291	2	NUT (M8X1.25-THD)						
M	2	1	6I-0254	2	BOLT (M8X1.25X30-MM)						
	3	1	8C-0572	2	WASHER (8.8X25.5X2-MM THK)						
	4	1	4D-7922	1	CLAMP-HOSE						
	5	1	292-0469	1	HOSE						
	6	1	1W-4724	1	CLAMP-HOSE						
Y	7	1	233-5180	1	AIR CLEANER GP						138
	8	1	210-6977	1	ADAPTER						

M-METRIC PART

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01274175

AIR INLET AND EXHAUST SYSTEM

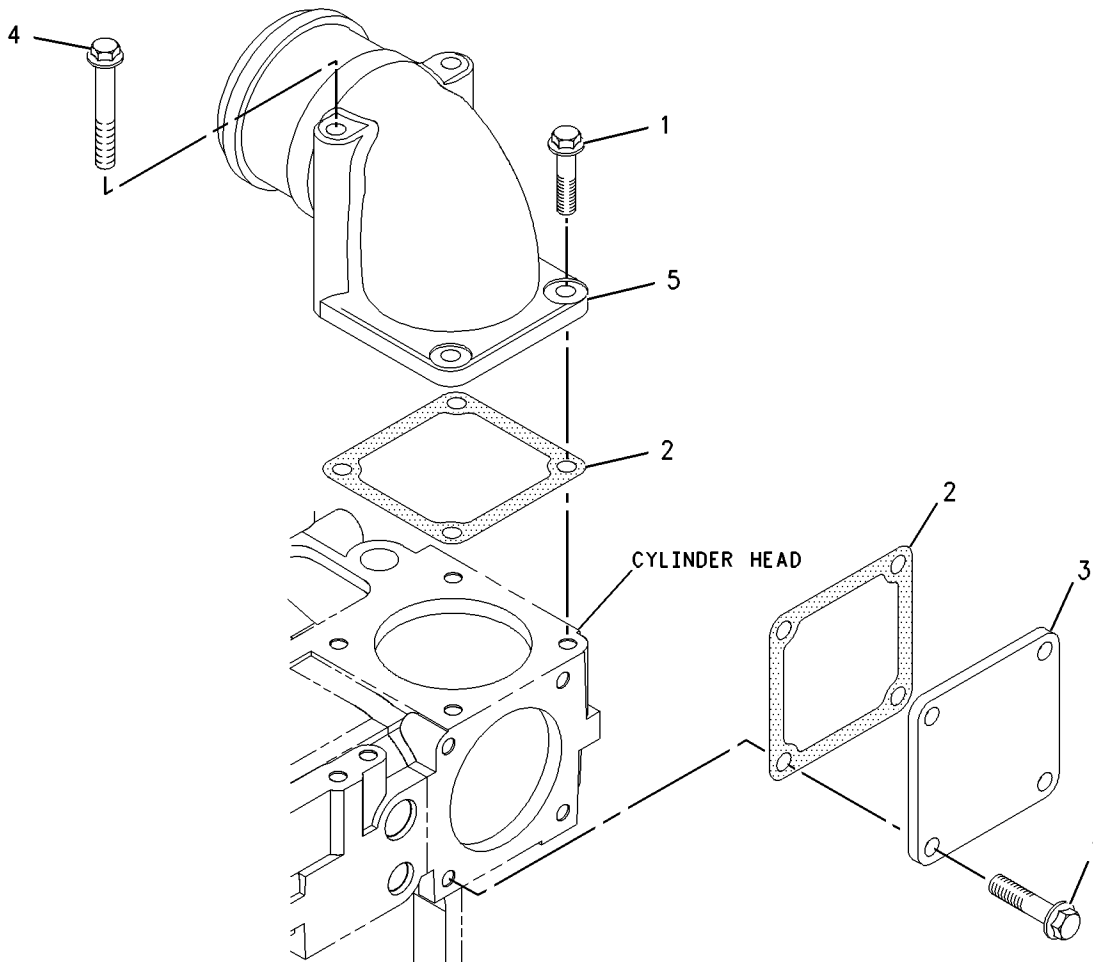
233-7491 ELBOW GP-AIR INLET

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1087

i02317479

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0572	14	BOLT (M8X1.25X20-MM)						
	2	1	114-2579	4	GASKET						
	3	1	115-1162	3	PLATE						
	4	1	233-7489	2	BOLT (M8X1.25-MM)						
	5	1	233-7490	1	ELBOW						



GRAPHIC #1

<END>

g00960144

AIR INLET AND EXHAUST SYSTEM

263-5805 ELBOW GP-EXHAUST

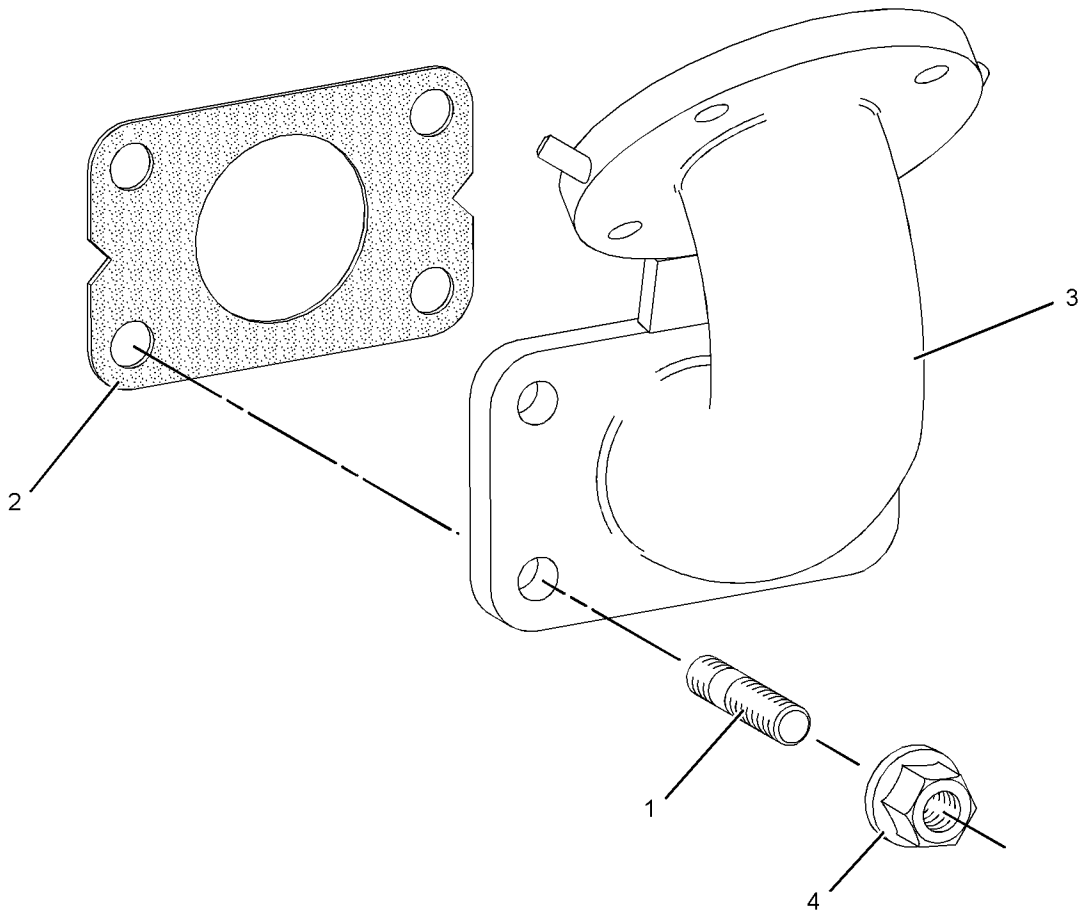
S/N: L1K1-UP

FOR USE WITH NATURALLY ASPIRATED ENGINES
AN ATTACHMENT

SMCS-1061

i02304803

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4012	4	STUD						
	2	1	263-5802	1	GASKET						
	3	1	263-5803	1	ELBOW						
	4	1	6I-0563	4	NUT (M10X1.5-THD)						



GRAPHIC #1

<END>

g01155445

AIR INLET AND EXHAUST SYSTEM

269-5153 ELBOW GP-EXHAUST

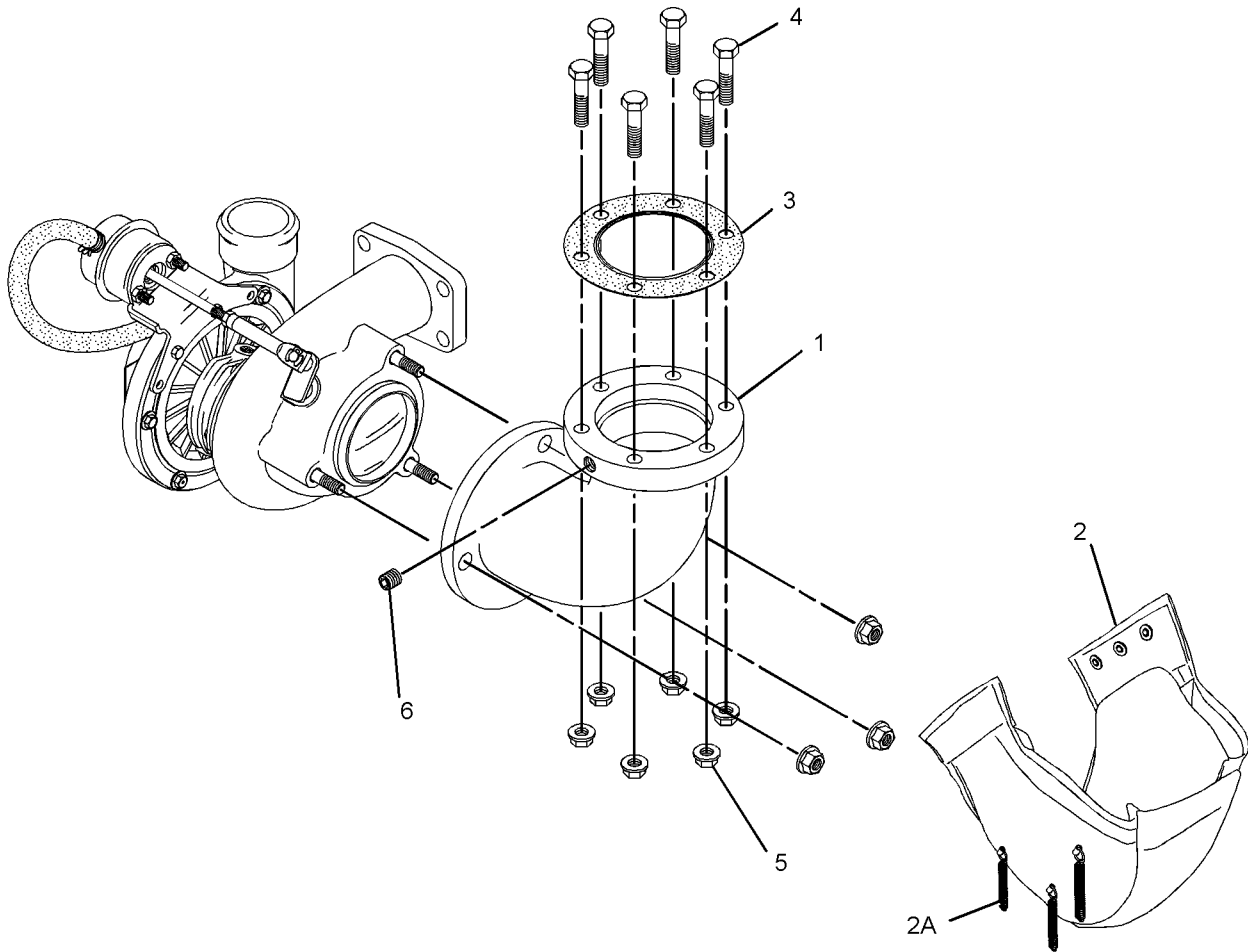
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1061

i02308832

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-5149	1	ELBOW						
	2	1	269-5150	1	JACKET AS						
	3	1	7W-4566	1	GASKET (EXHAUST OUTLET)						
	4	1	269-5151	6	BOLT (M8X40-MM)						
	5	1	101-3803	6	NUT (SPIRALOCK M8-THD)						
	6	1	195-4639	1	PLUG						



GRAPHIC #1

<END>

g01147950

AIR INLET AND EXHAUST SYSTEM

272-6535 ELBOW GP-EXHAUST

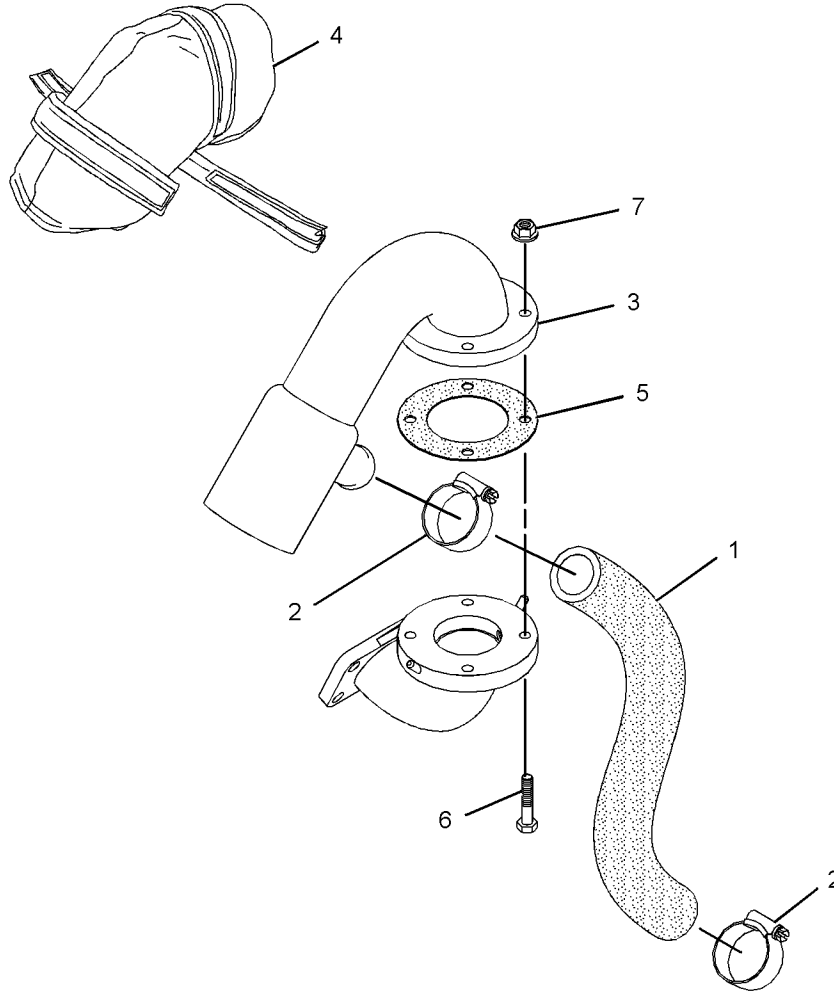
S/N: L1K1-UP; S1M1-UP

FOR USE WITH NATURALLY ASPIRATED ENGINES ONLY
AN ATTACHMENT

SMCS-1061

i02308837

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	195-4628	1	HOSE						
	2	1	9M-2904	2	CLAMP - HOSE						
	3	1	272-6531	1	ELBOW AS-EXHAUST						
	4	1	272-6532	1	SHIELD AS-HEAT						
	5	1	195-4715	1	GASKET - EXHAUST						
	6	1	269-5151	4	BOLT (M8X40-MM)						
	7	1	101-3803	4	NUT (SPIRALOCK M8-THD)						



GRAPHIC #1

<END>

g01158933

AIR INLET AND EXHAUST SYSTEM

272-6993 ELBOW GP-EXHAUST

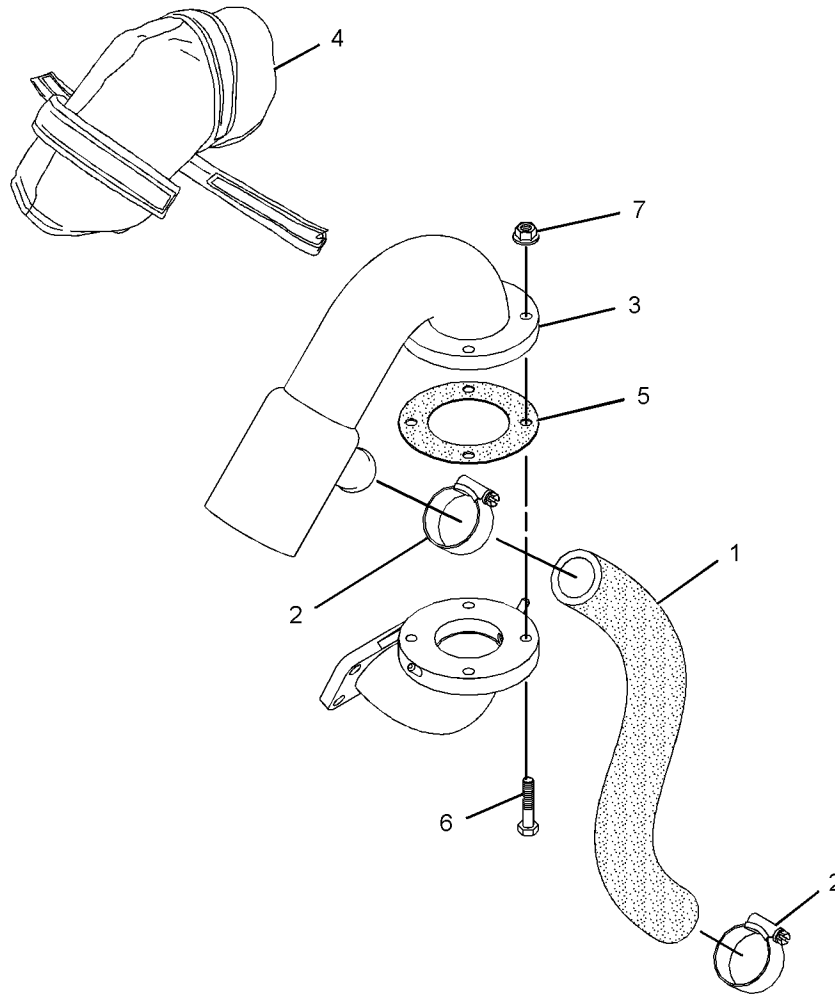
S/N: S1M1-UP

CANNOT BE USED WITH NATURALLY ASPIRATED ENGINES, TURBOCHARGED AND
AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1061

i02306158

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-4628	1	HOSE						
	2	1	9M-2904	2	CLAMP - HOSE						
	3	1	272-6991	1	ELBOW AS-EXHAUST						
	4	1	272-6992	1	SHIELD-EXHAUST						
	5	1	195-4715	1	GASKET-EXHAUST						
	6	1	269-5151	4	BOLT (M8X40-MM)						
	7	1	101-3803	4	NUT (SPIRALOCK M8-THD)						



GRAPHIC #1

<END>

g01158933

AIR INLET AND EXHAUST SYSTEM

274-1939 ELBOW GP-EXHAUST

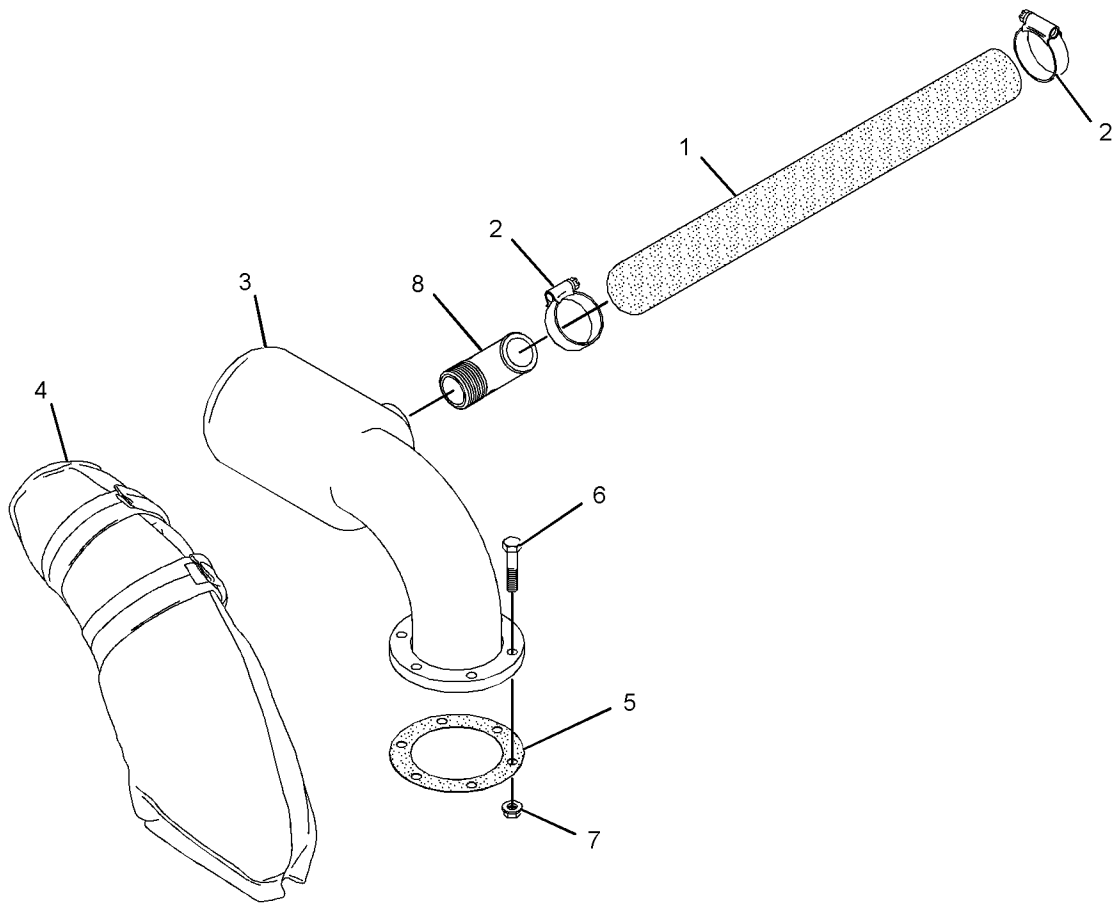
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1061

i02319542

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	204-7003	1	HOSE						
	2	1	9M-2904	2	CLAMP - HOSE						
	3	1	274-1937	1	ELBOW AS-EXHAUST						
	4	1	274-1938	1	SHIELD AS-HEAT						
	5	1	7W-4566	1	GASKET						
	6	1	269-5151	6	BOLT (M8X40-MM)						
	7	1	101-3803	6	NUT (SPIRALOCK M8-THD)						
	8	1	195-4618	1	ELBOW						



GRAPHIC #1

<END>

g01160615

AIR INLET AND EXHAUST SYSTEM

271-9964 EXHAUST GP-FLEXIBLE

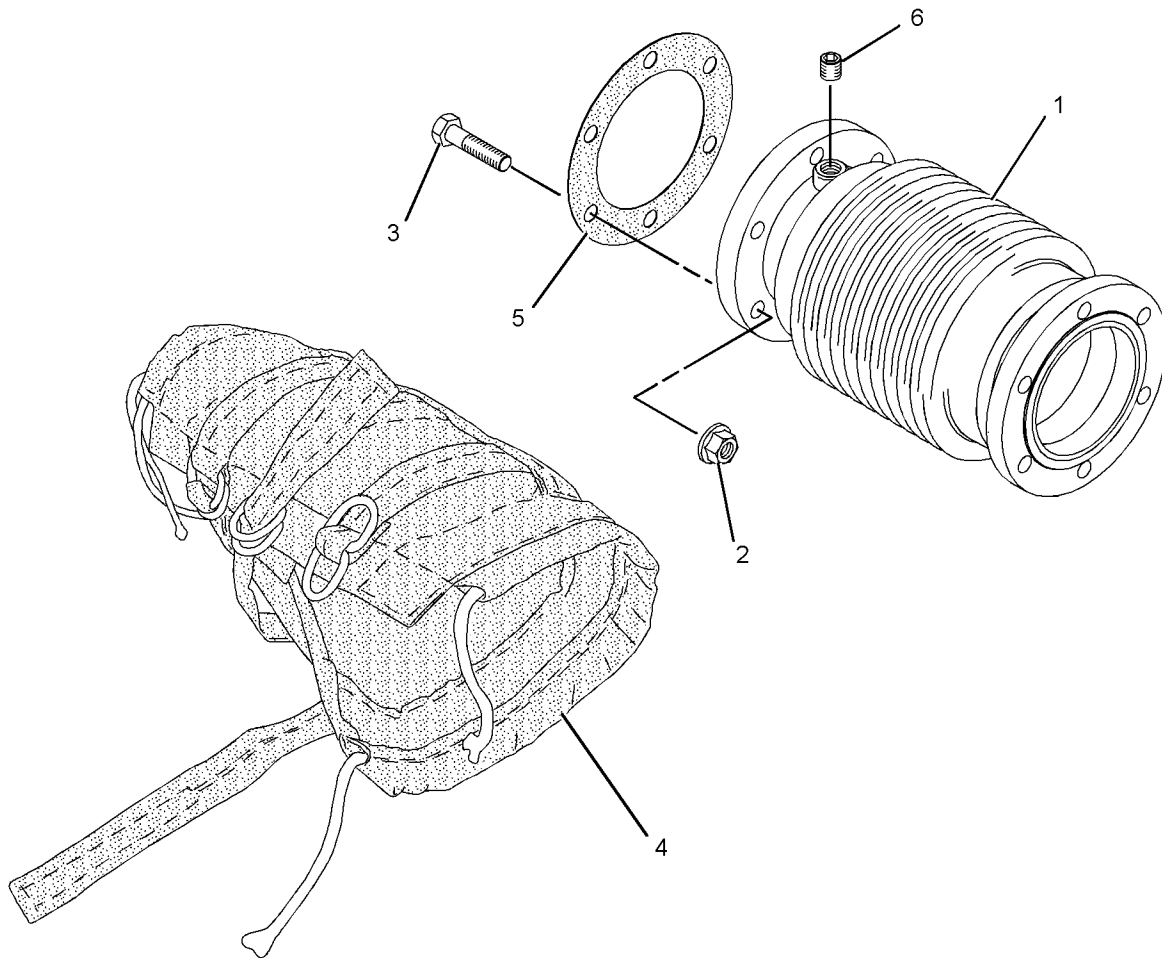
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY
AN ATTACHMENT

SMCS-1061

i02306049

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-4654	1	BELLOWS AS-EXHAUST						
	2	1	101-3803	6	NUT (SPIRALOCK M8-THD)						
	3	1	195-4667	6	BOLT (M8X35-MM)						
	4	1	271-9963	1	SHIELD AS-HEAT						
	5	1	7W-4566	1	GASKET						
	6	1	195-4639	1	PLUG						



GRAPHIC #1

<END>

g01155748

AIR INLET AND EXHAUST SYSTEM

273-0702 EXHAUST GP-FLEXIBLE

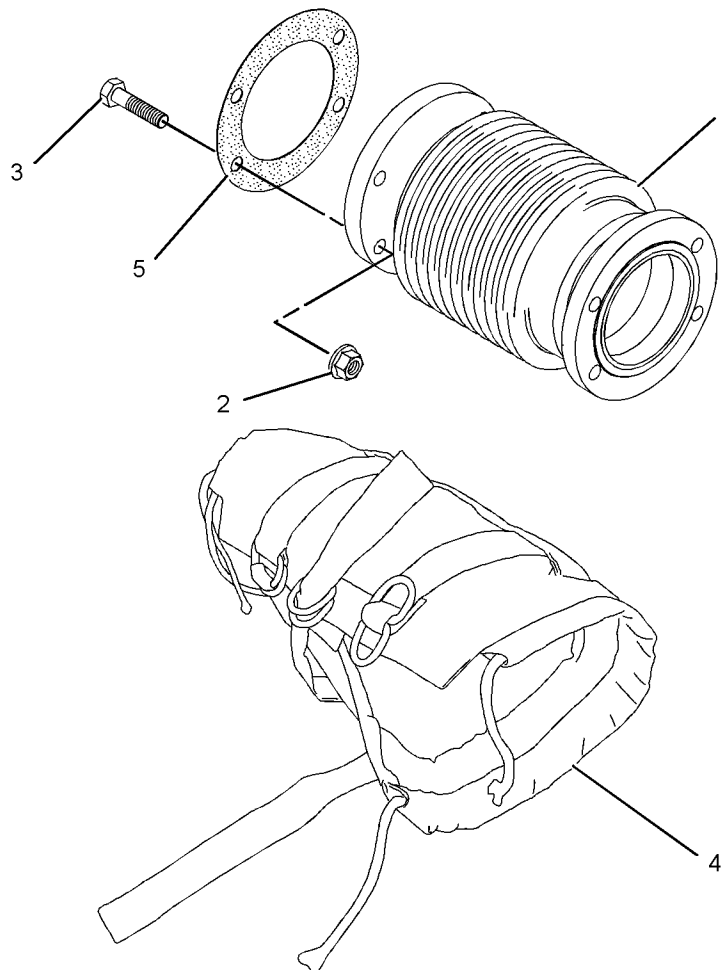
S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1061

i02319555

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-4716	1	BELLOWS - EXHAUST						
	2	1	101-3803	4	NUT (SPIRALOCK M8-THD)						
	3	1	195-4667	4	BOLT (M8X35-MM)						
	4	1	273-0705	1	SHIELD AS-HEAT						
	5	1	195-4715	1	GASKET - EXHAUST						



GRAPHIC #1

<END>

g01160635

AIR INLET AND EXHAUST SYSTEM

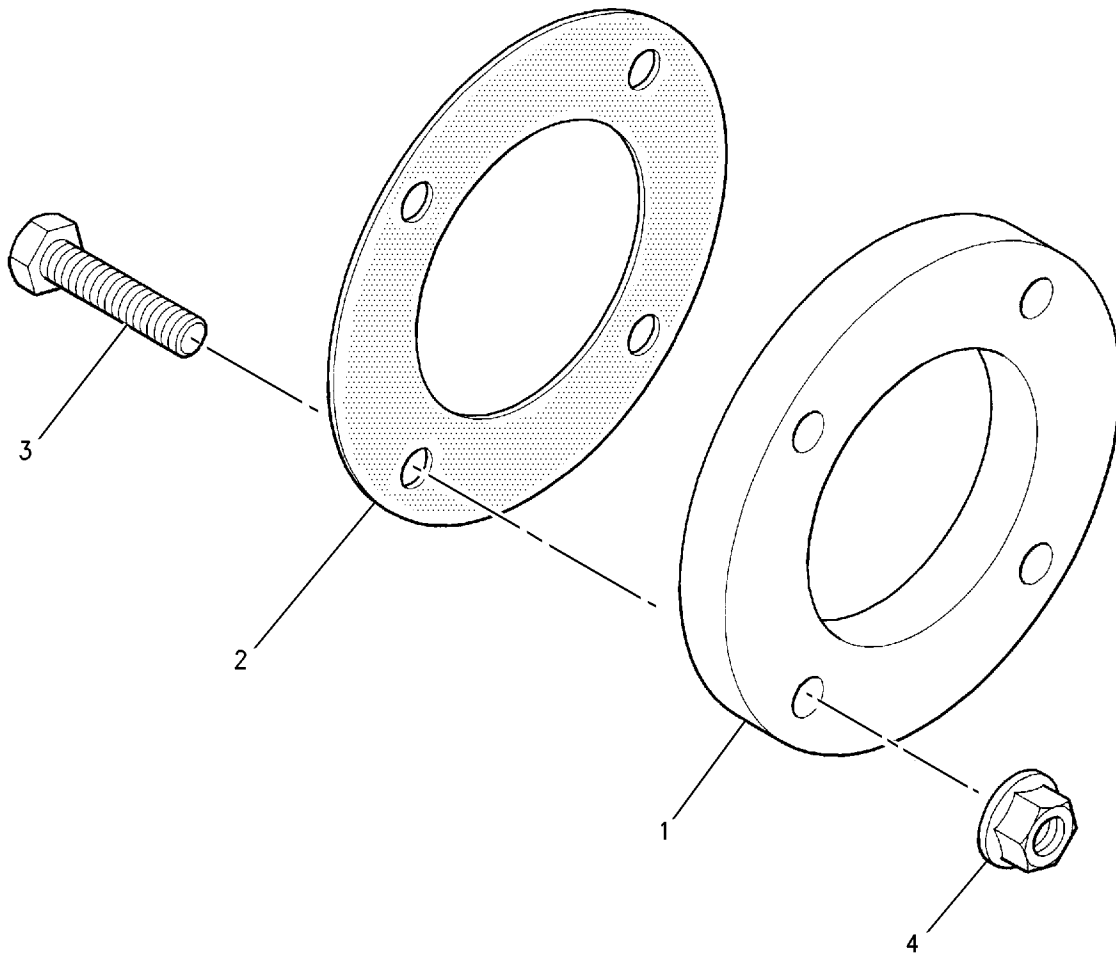
217-8261 FLANGE GP-EXHAUST

S/N: S1M1-UP
AN ATTACHMENT

SMCS-1061

i02312953

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-4718	1	FLANGE - EXHAUST						
	2	1	195-4715	1	GASKET - EXHAUST						
	3	1	195-4667	4	BOLT (M8X35-MM)						
	4	1	101-3803	4	NUT (SPIRALOCK M8-THD)						



GRAPHIC #1

<END>

g00862001

AIR INLET AND EXHAUST SYSTEM

273-1696 FLANGE GP-EXHAUST

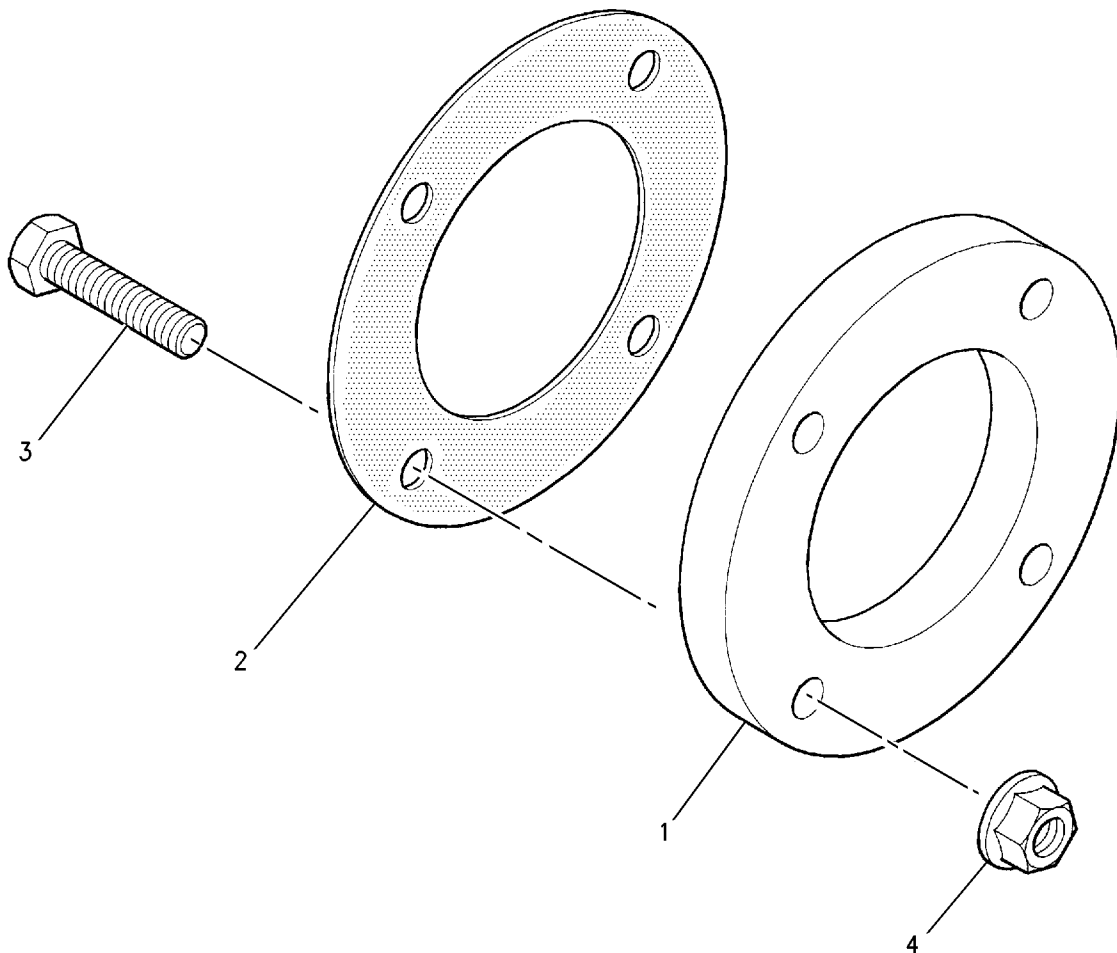
S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1061

i02319554

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	195-4718	1	FLANGE - EXHAUST						
	2	1	195-4715	1	GASKET - EXHAUST						
	3	1	269-5151	4	BOLT (M8X40-MM)						
	4	1	101-3803	4	NUT (SPIRALOCK M8-THD)						



GRAPHIC #1

<END>

g00862001

AIR INLET AND EXHAUST SYSTEM

263-4793 MANIFOLD GP-EXHAUST

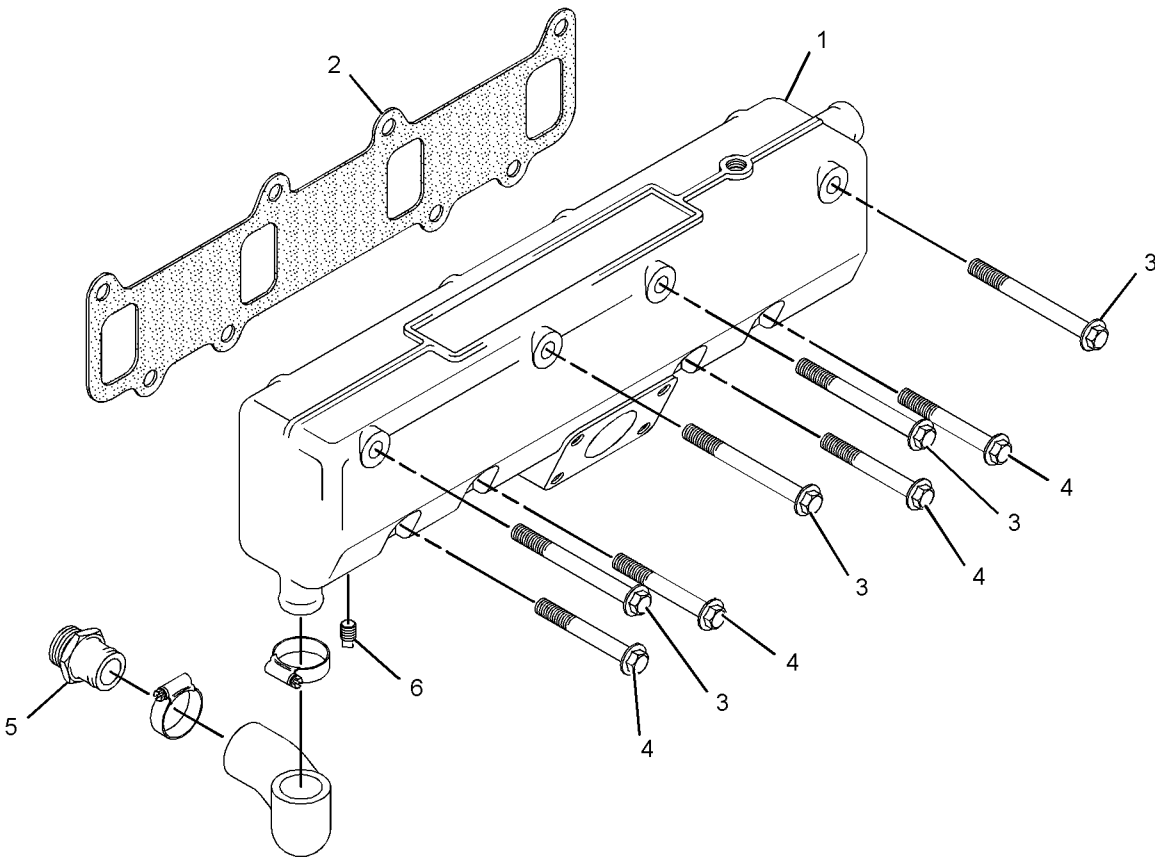
S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH TURBOCHARGED AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS - 1059

i02286899

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-4797	1	MANIFOLD (EXHAUST)						
	2	1	263-4794	1	GASKET						
	3	1	103-0050	4	BOLT (M10X100-MM)						
	4	1	6I-4045	4	BOLT (M10X1.5X75-MM)						
	5	1	263-4798	1	ADAPTER						
	6	1	035-8063	1	PLUG						



GRAPHIC #1

<END>

g01148779

AIR INLET AND EXHAUST SYSTEM

268-4268 MANIFOLD GP-EXHAUST

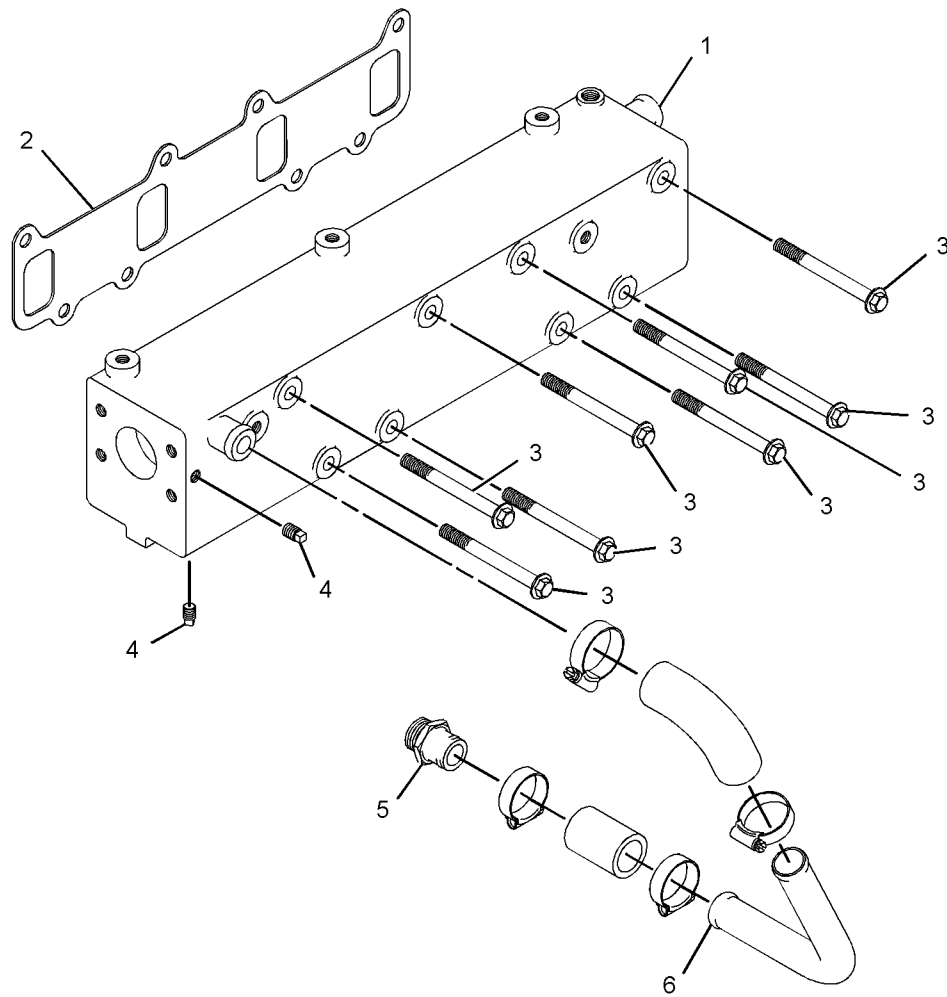
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1059

i02288983

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	268-4269	1	MANIFOLD (EXHAUST)						
	2	1	263-4794	1	GASKET						
	3	1	100-4715	8	BOLT (M10X130)						
	4	1	035-8063	2	PLUG						
	5	1	263-4798	1	ADAPTER						
	6	1	268-4271	1	TUBE						



GRAPHIC #1

<END>

g01146975

AIR INLET AND EXHAUST SYSTEM

291-4625 MANIFOLD GP-EXHAUST

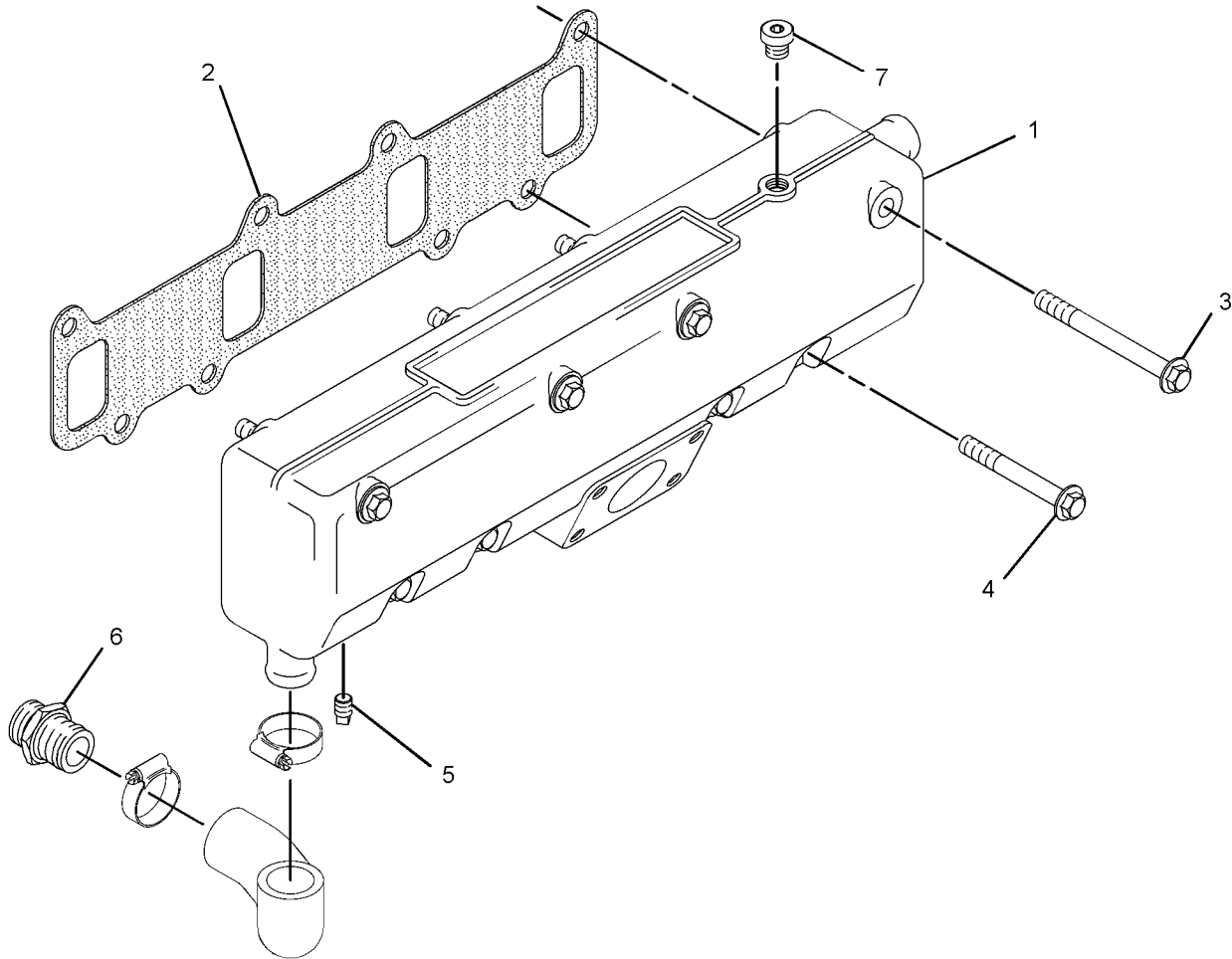
S/N: L1K1-UP; S1M1-UP

FOR USE WITH RADIATOR COOLED MARINE GENSET PACKAGES
AN ATTACHMENT

SMCS-1059

i02540697

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	291-4626	1	MANIFOLD-EXHAUST						
	2	1	263-4794	1	GASKET						
	3	1	103-0050	4	BOLT (M10X100-MM)						
	4	1	6I-4045	4	BOLT (M10X1.5X75-MM)						
	5	1	035-8063	1	PLUG						
	6	1	263-4798	1	ADAPTER						
	7	1	263-5647	1	PLUG						



GRAPHIC #1

<END>

g01277648

AIR INLET AND EXHAUST SYSTEM

268-7665 MOUNTING GP-AIR CLEANER

S/N: S1M1-UP

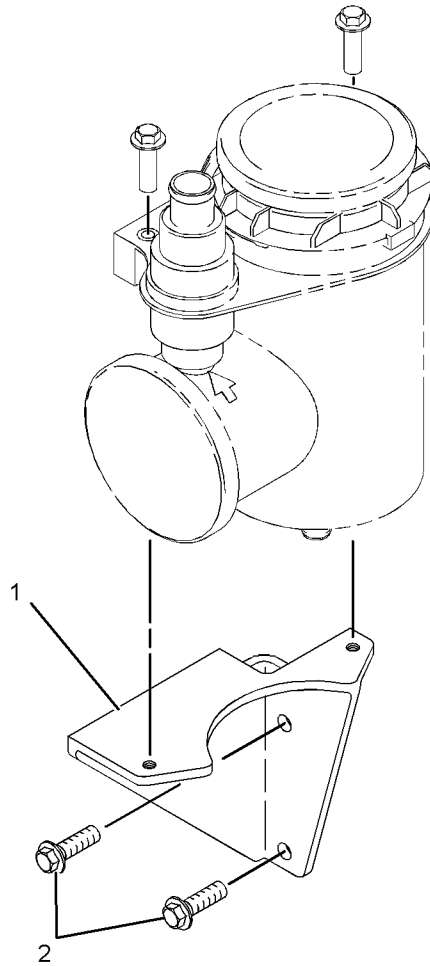
CANNOT BE USED WITH NATURALLY ASPIRATED ENGINES
AN ATTACHMENT

SMCS-1051

i02288990

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	268-7663	1	BRACKET						
M	2	1	6I-0645	2	BOLT (M8X1.25X25-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01148910

AIR INLET AND EXHAUST SYSTEM

272-2240 MOUNTING GP-EXHAUST

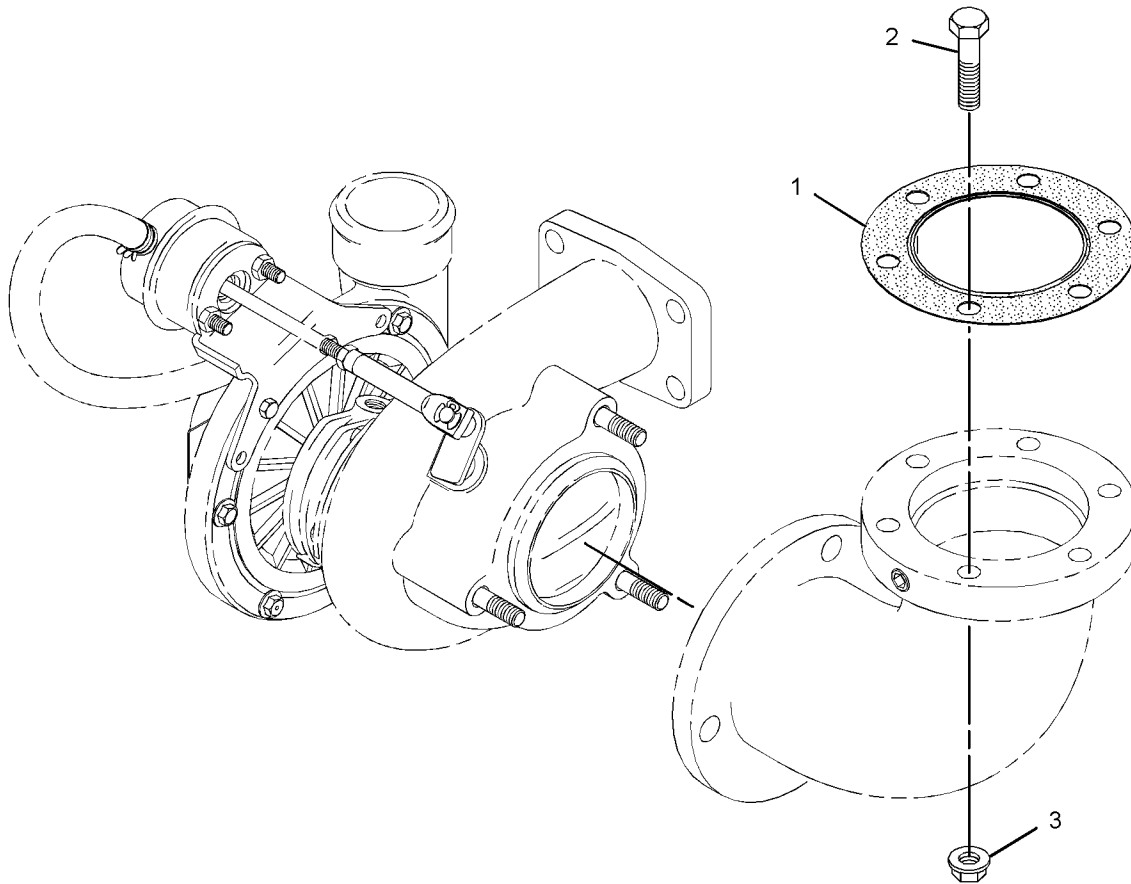
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1061

i02308833

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-4566	1	GASKET						
	2	1	269-5151	6	BOLT (M8X40-MM)						
	3	1	101-3803	6	NUT (SPIRALOCK M8-THD)						



GRAPHIC #1

<END>

g01159377

AIR INLET AND EXHAUST SYSTEM

269-3749 SHIELD GP-EXHAUST

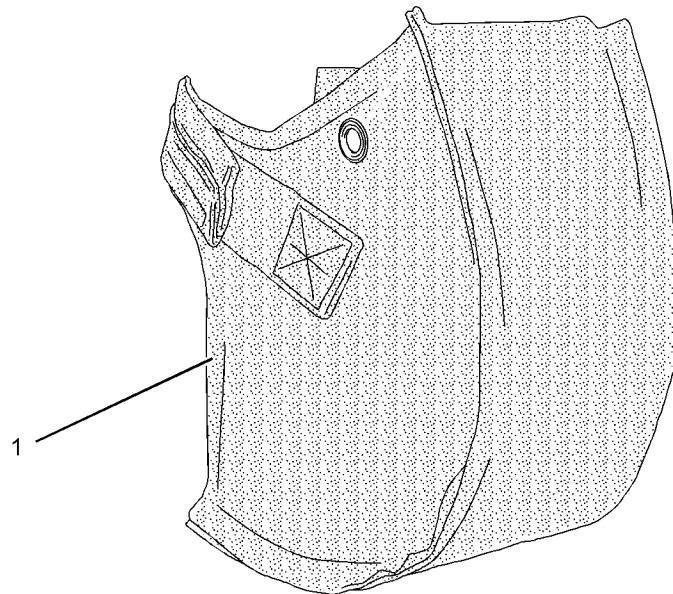
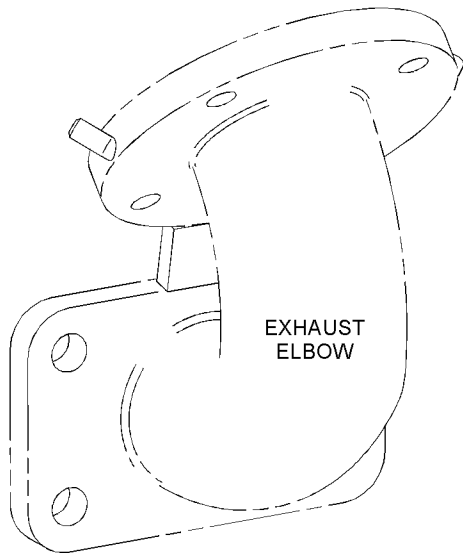
S/N: L1K1-UP

FOR USE WITH NATURALLY ASPIRATED ENGINES ONLY
AN ATTACHMENT

SMCS-1067

i02306183

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	272-9714	1	JACKET AS						



GRAPHIC #1

<END>

g01155753

AIR INLET AND EXHAUST SYSTEM

270-0340 SHIELD GP-EXHAUST

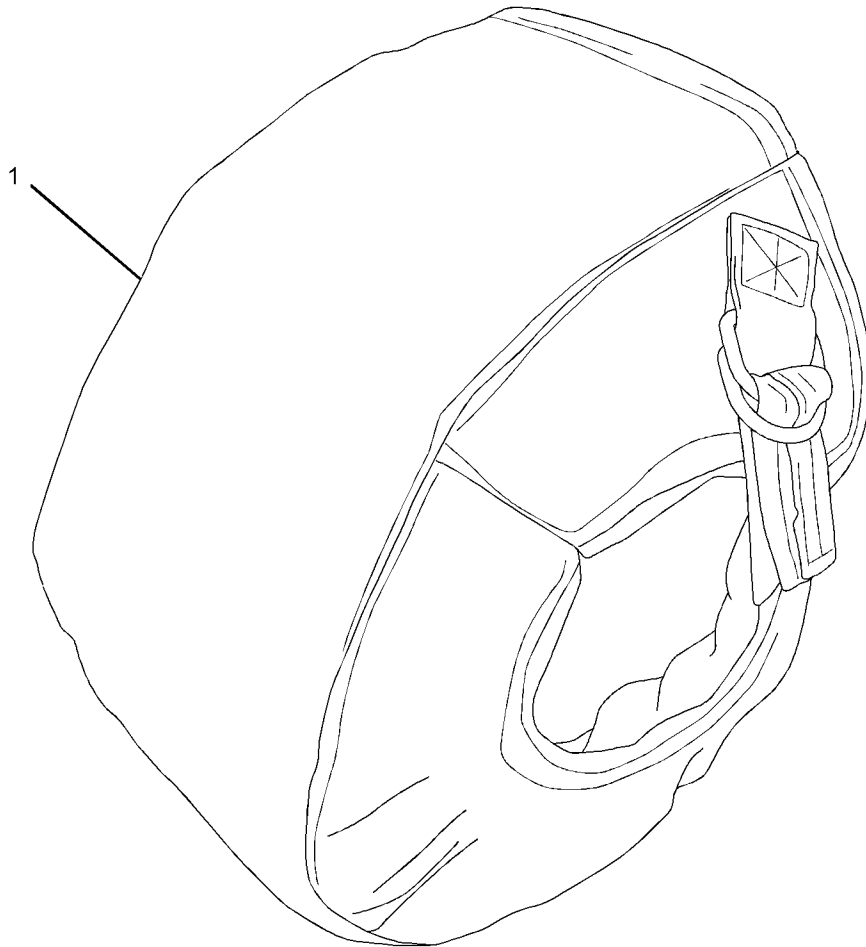
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY
AN ATTACHMENT

SMCS-1067

i02308838

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	270-0341	1	SHIELD AS						



GRAPHIC #1

<END>

g01158934

AIR INLET AND EXHAUST SYSTEM

273-3613 SHIELD GP-EXHAUST

S/N: S1M1-UP

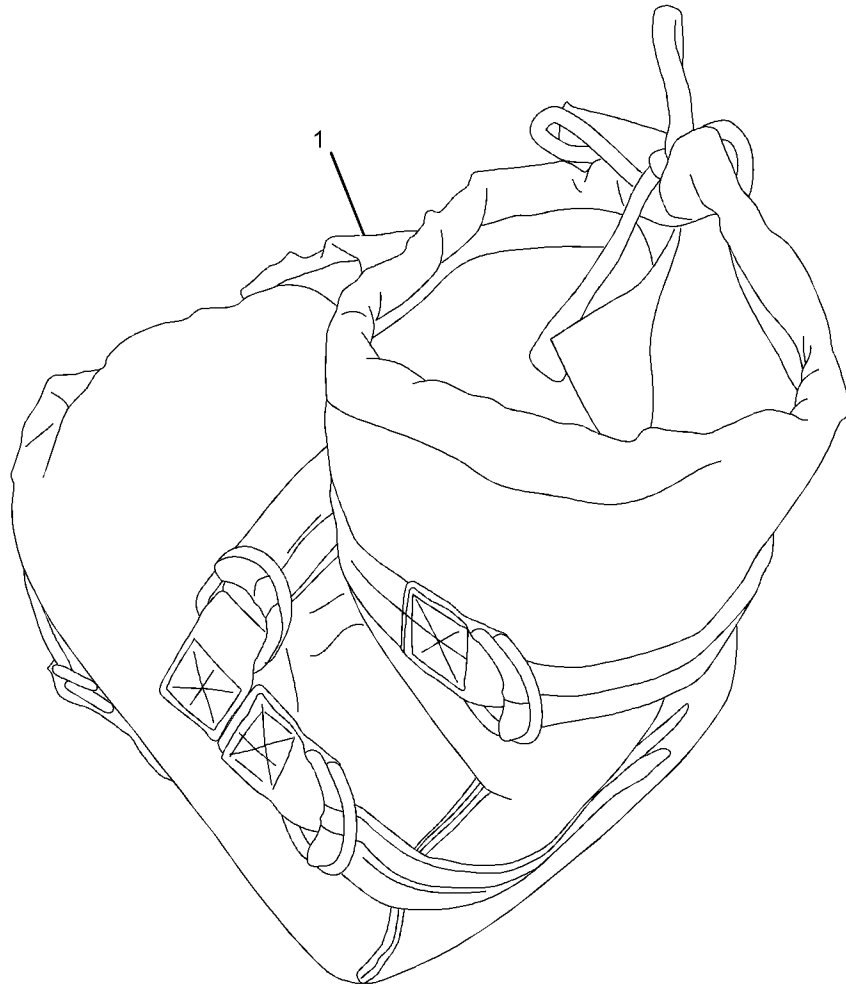
FOR USE WITH NATURALLY ASPIRATED ENGINES, TURBOCHARGED AND AFTERCOOLED
ENGINES

AN ATTACHMENT

SMCS-1067

i02311907

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-3614	1	SHIELD AS-EXHAUST						



GRAPHIC #1

<END>

g01159431

AIR INLET AND EXHAUST SYSTEM

266-7090 TURBOCHARGER GP

S/N: S1M1-UP

CANNOT BE USED WITH NATURALLY ASPIRATED ENGINES, TURBOCHARGED AND
AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1052, 1053

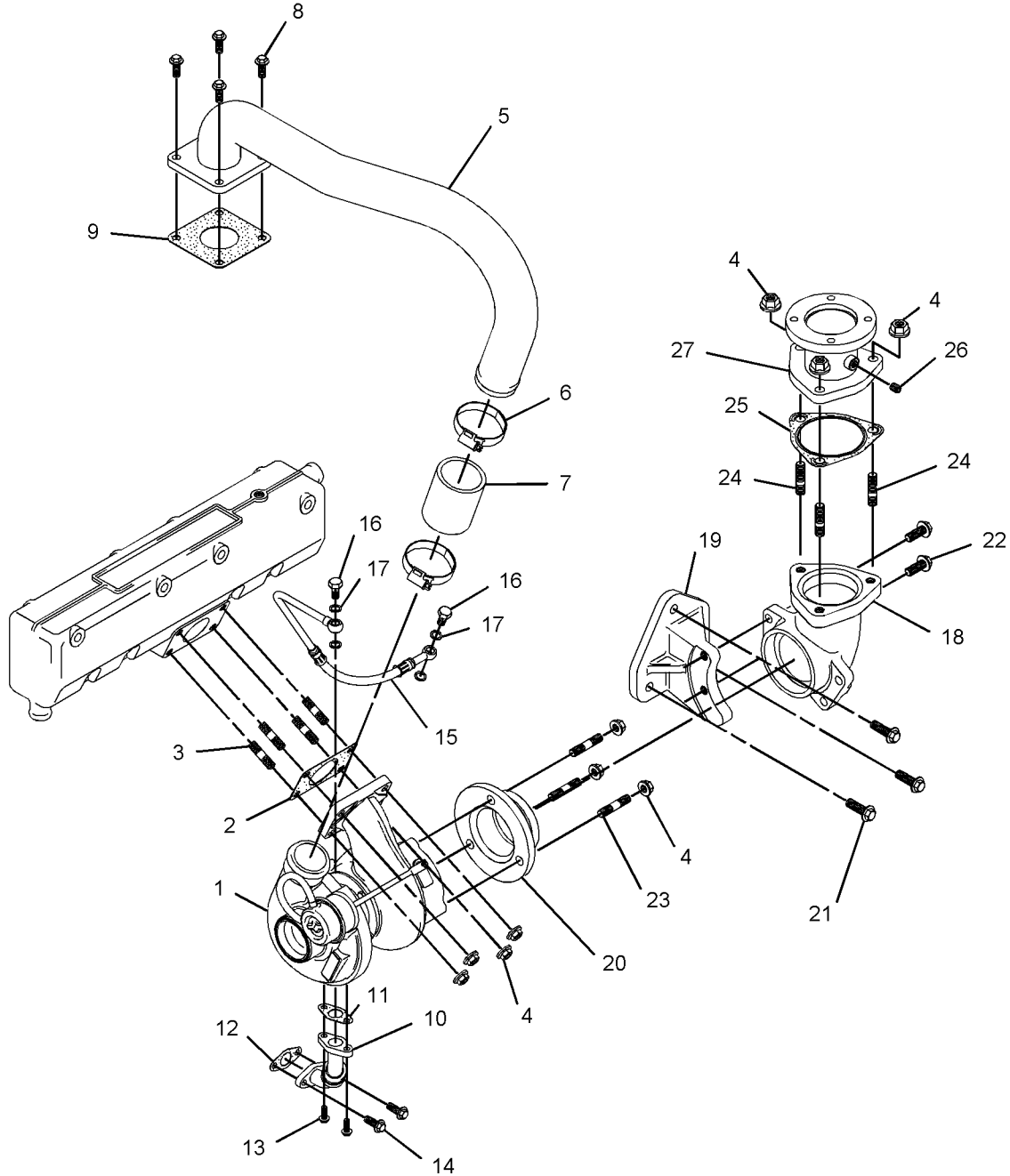
i02618492

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	234-2988	1	TURBOCHARGER GP						
	2	1	263-5802	1	GASKET						
	3	1	149-4236	4	STUD						
	4	1	6I-0563	10	NUT (M10X1.15-THD)						
	5	1	235-5233	1	TUBE						
	6	1	266-7092	2	CLAMP-HOSE						
	7	1	234-3029	1	HOSE						
	8	1	6I-0572	4	BOLT (M8X1.25X20-MM)						
	9	1	234-3030	1	GASKET						
	10	1	285-3030	1	TUBE AS						
	11	1	225-8533	1	GASKET (TURBOCHARGER)						
	12	1	225-8534	1	GASKET						
	13	1	106-8916	2	BOLT (M6X16-MM)						
M	14	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
	15	1	285-3031	1	TUBE AS						
	16	1	225-8524	2	BOLT (M10X1X23-MM)						
	17	1	225-8526	4	WASHER (10.4X13.75X1.37-MM THK)						
	18	1	227-4562	1	ELBOW-EXHAUST						
	19	1	232-6194	1	BRACKET						
	20	1	227-4563	1	ADAPTER-EXHAUST						
M	21	1	6I-0654	3	BOLT (M10X1.5X25-MM)						
M	22	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
	23	1	147-5553	3	STUD						
	24	1	6I-4012	3	STUD						
	25	1	6I-4039	1	GASKET						
	26	1	195-4639	1	PLUG						
	27	1	270-4163	1	ADAPTER-EXHAUST						
M-METRIC PART											

AIR INLET AND EXHAUST SYSTEM

266-7090 TURBOCHARGER GP (contd.)

i02618492



GRAPHIC #1

<END>

g01147013

AIR INLET AND EXHAUST SYSTEM

268-5362 TURBOCHARGER GP

S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1052, 1053

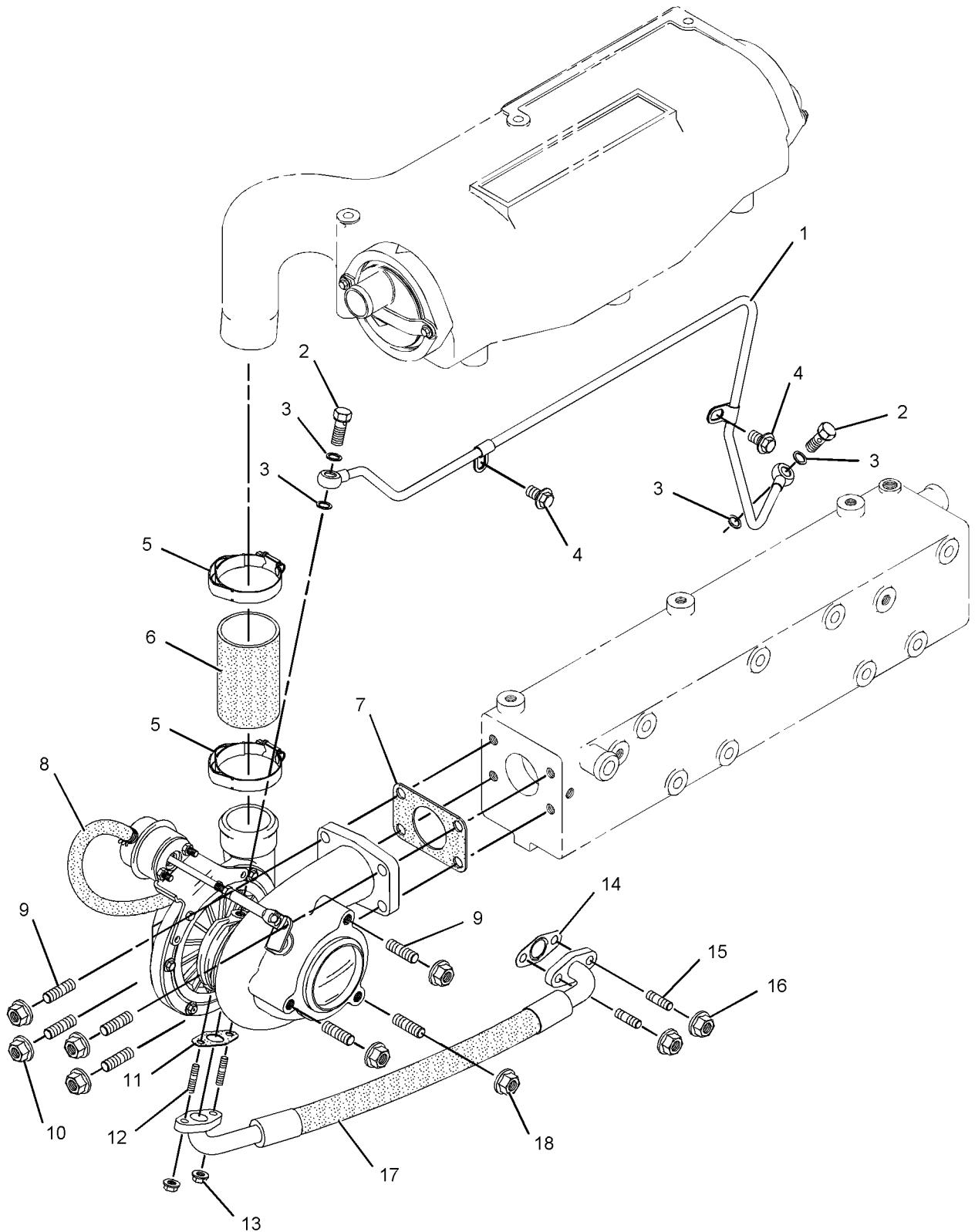
i02288987

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	268-5357	1	TUBE AS						
	2	1	225-8524	2	BOLT (M10X1X23-MM)						
	3	1	225-8526	4	WASHER (10.4X13.75X1.37-MM THK)						
	4	1	6I-4200	2	BOLT (M10X1.5X16-MM)						
	5	1	266-7092	2	CLAMP-HOSE						
	6	1	268-5358	1	HOSE						
	7	1	263-5802	1	GASKET						
	8	1	268-5359	1	TURBOCHARGER						
	9	1	6I-4012	7	STUD						
	10	1	6I-0594	4	NUT (M10X1.5-THD)						
	11	1	225-8533	1	GASKET						
	12	1	268-5360	2	STUD (M6X1X24-MM)						
	13	1	6I-0918	2	NUT (M6-THD)						
	14	1	225-8534	1	GASKET						
	15	1	6I-0840	2	STUD (M8X20-MM)						
	16	1	6I-0291	2	NUT (M8X1.25-THD)						
	17	1	268-5361	1	HOSE AS						
	18	1	6I-0563	3	NUT (M10X1.5-THD)						

AIR INLET AND EXHAUST SYSTEM

268-5362 TURBOCHARGER GP (contd.)

i02288987



GRAPHIC #1

<END>

g01149091

AIR INLET AND EXHAUST SYSTEM

291-9846 TURBOCHARGER GP

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1052, 1053

i02614825

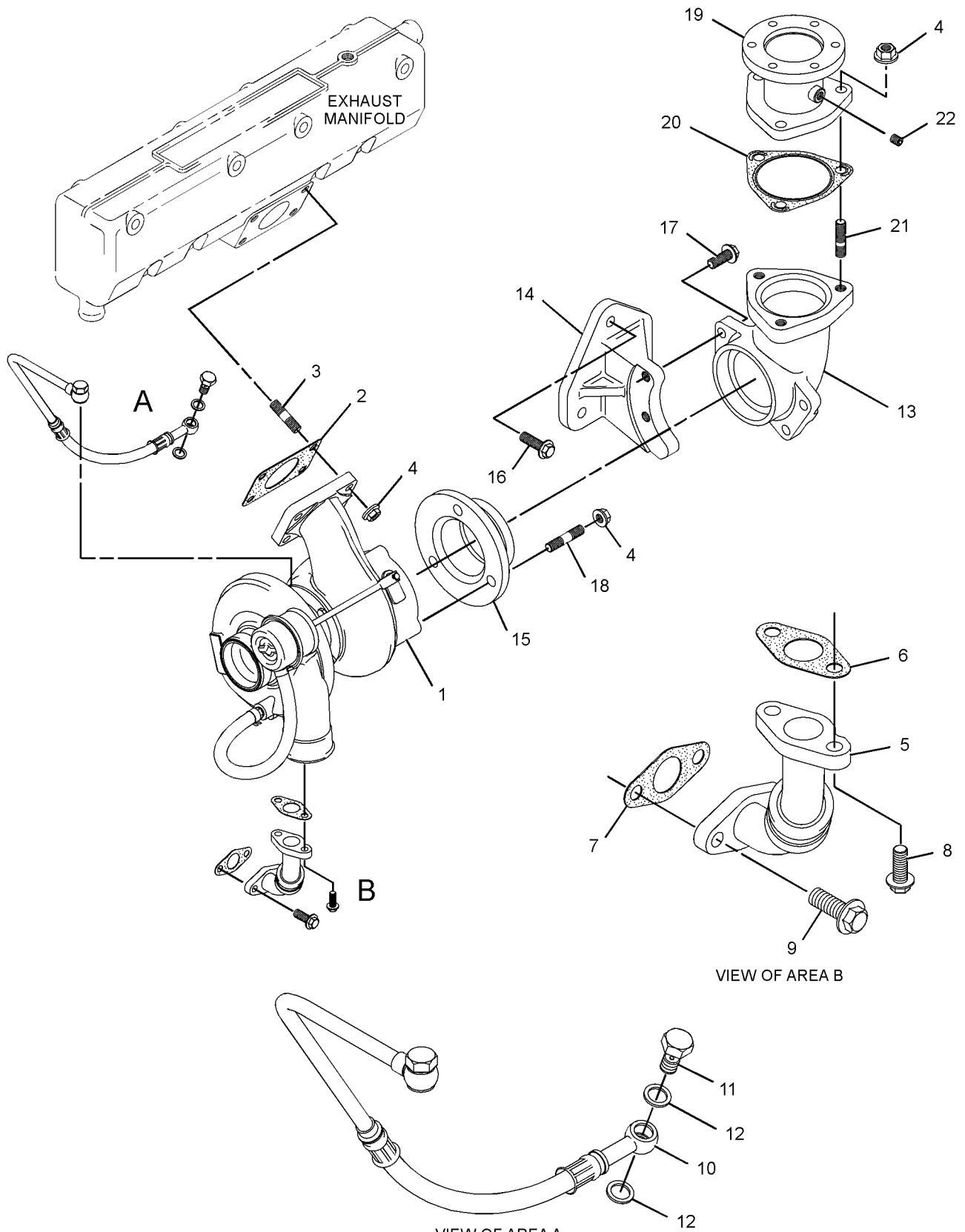
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	236-8746	1	TURBOCHARGER GP						
	2	1	263-5802	1	GASKET						
	3	1	149-4236	4	STUD						
	4	1	6I-0563	10	NUT (M10X1.15-THD)						
	5	1	285-3030	1	TUBE AS						
	6	1	225-8533	1	GASKET						
	7	1	225-8534	1	GASKET						
	8	1	106-8916	2	BOLT (M6X16-MM)						
M	9	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
	10	1	285-3031	1	TUBE AS						
	11	1	225-8524	2	BOLT (M10X1X23-MM) (BANJO)						
	12	1	225-8526	4	WASHER (10.4X13.75X1.37-MM THK)						
	13	1	227-4562	1	ELBOW-EXHAUST						
	14	1	232-6194	1	BRACKET						
	15	1	227-4563	1	ADAPTER-EXHAUST						
M	16	1	6I-0654	3	BOLT (M10X1.5X25-MM)						
M	17	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
	18	1	147-5553	3	STUD						
	19	1	291-9847	1	ADAPTER-EXHAUST						
	20	1	6I-4039	1	GASKET (EXHAUST)						
	21	1	6I-4012	3	STUD						
	22	1	195-4639	1	PLUG						

M-METRIC PART

AIR INLET AND EXHAUST SYSTEM

291-9846 TURBOCHARGER GP (contd.)

i02614825



GRAPHIC #1

VIEW OF AREA A
<END>

g01277638

FUEL SYSTEM

265-3858 FILTER & LINES GP-FUEL

S/N: L1K1-UP; S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1261, 1274

i02623726

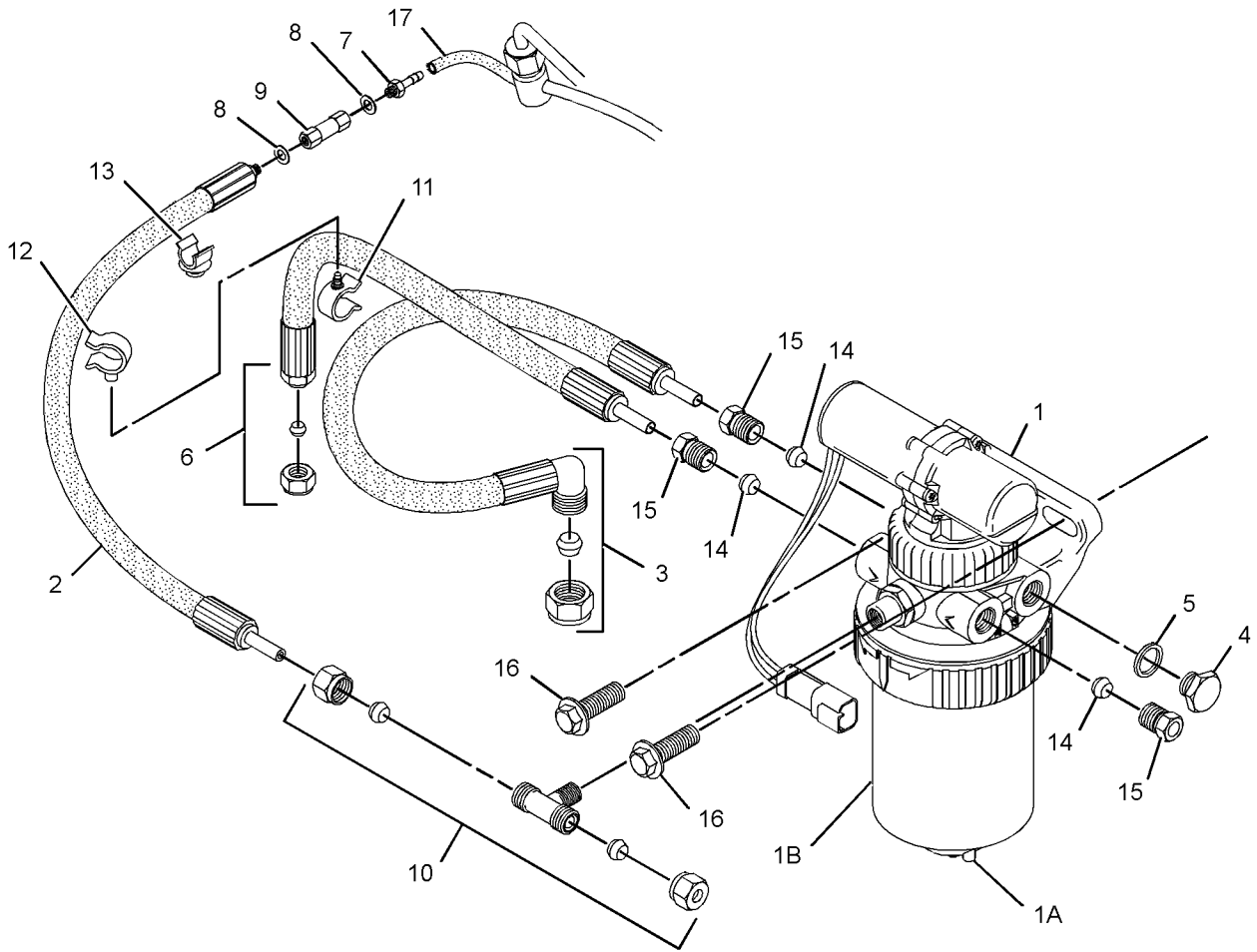
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	265-5540	1	FILTER GP-FUEL (PRIMARY)						
	1A	1	205-3041	1	PLUG-DRAIN (FUEL FILTER)						
	1B	1	250-6527	1	ELEMENT-FUEL FILTER						
	2	1	265-5541	1	HOSE AS						
	3	1	265-5542	1	HOSE AS						
	4	1	033-7849	1	PLUG						
	5	1	032-8100	1	WASHER (0.531X0.718X0.064-IN THK)						
	6	1	265-5543	1	HOSE AS						
	7	1	265-5545	1	ADAPTER						
	8	1	265-5546	2	WASHER (5.1X8X1-MM THK)						
	9	1	265-5547	1	VALVE						
	10	1	265-5548	1	CONNECTION						
	11	1	263-8001	1	CLIP						
	12	1	263-7999	1	CLIP						
	13	1	232-3126	1	CLIP						
	14	1	067-6269	3	FERRULE						
	15	1	067-6268	3	NUT-FUEL LINE (1/2-IN)						
M	16	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
E	17	1	276-9384		HOSE (8-CM)						

E-ORDER BY THE CENTIMETER
M-METRIC PART

FUEL SYSTEM

265-3858 FILTER & LINES GP-FUEL (contd.)

i02623726



GRAPHIC #1

<END>

g01190484

FUEL SYSTEM

265-5562 FILTER & LINES GP-FUEL

S/N: L1K1-UP; S1M1-UP

CANNOT BE USED WITH TURBOCHARGED AND ASPIRATED ENGINES
AN ATTACHMENT

SMCS-1261, 1274

i02623727

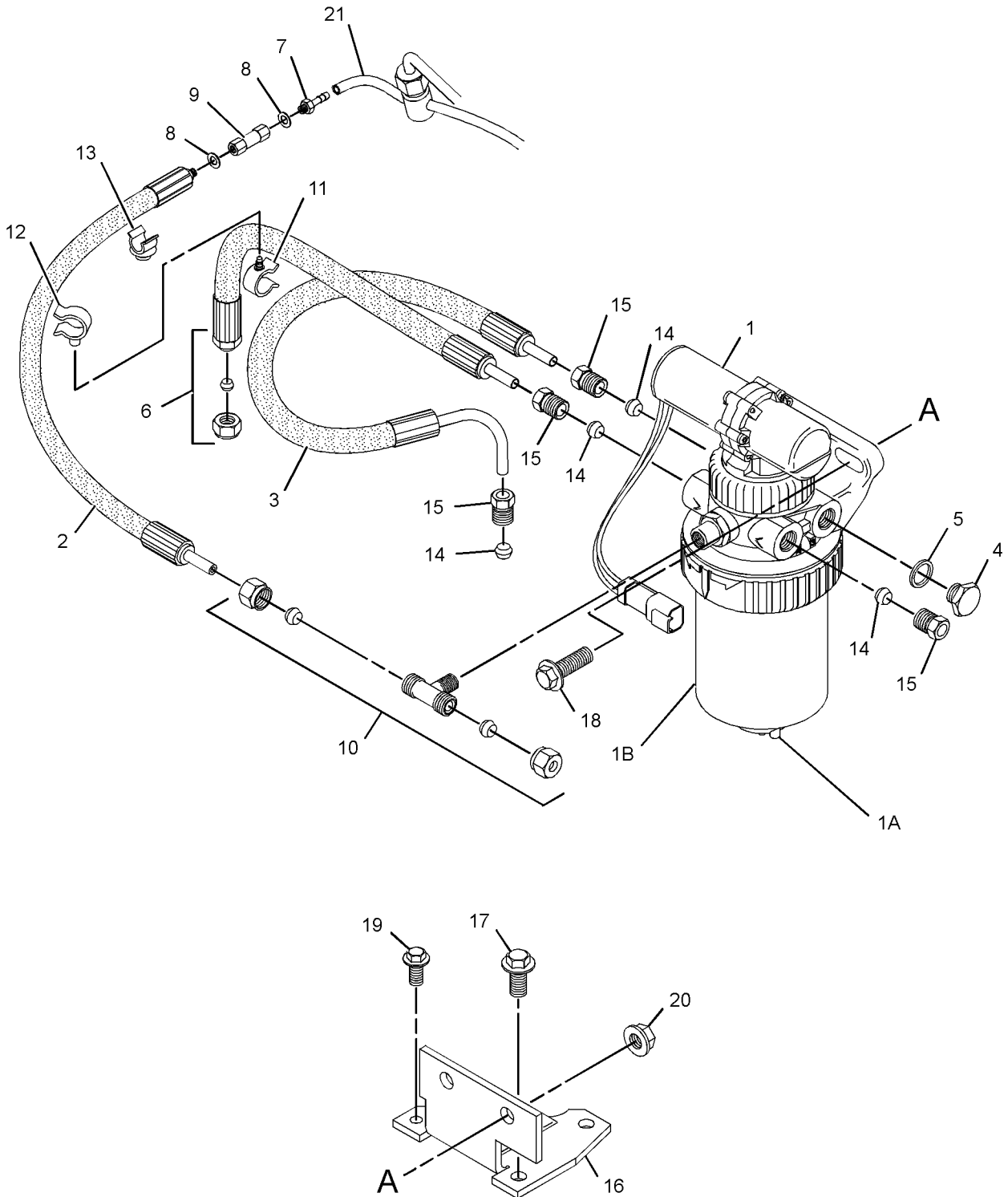
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	265-5540	1	FILTER GP-FUEL (PRIMARY)						
	1A	1	205-3041	1	PLUG-DRAIN (FUEL FILTER)						
	1B	1	250-6527	1	ELEMENT-FUEL FILTER						
	2	1	265-5541	1	HOSE AS						
	3	1	277-5674	1	HOSE AS						
	4	1	033-7849	1	PLUG						
	5	1	032-8100	1	WASHER (0.531X0.718X0.064-IN THK)						
	6	1	265-5543	1	HOSE AS						
	7	1	265-5545	1	ADAPTER						
	8	1	265-5546	2	WASHER (5.1X8X1-MM THK)						
	9	1	265-5547	1	VALVE						
	10	1	265-5548	1	CONNECTION						
	11	1	263-8001	1	CLIP						
	12	1	263-7999	1	CLIP						
	13	1	232-3126	1	CLIP						
	14	1	067-6269	4	FERRULE						
	15	1	067-6268	4	NUT-FUEL LINE (1/2-IN)						
	16	1	265-5555	1	BRACKET						
M	17	1	6I-0217	2	BOLT (M8X1.25X20-MM)						
M	18	1	6I-0593	2	BOLT (M10X1.5X30-MM)						
	19	1	6I-0846	1	BOLT (M6X1X14-MM)						
	20	1	6I-0594	2	NUT (M10X1.15-THD)						
	21	1	276-9384		HOSE (8-CM)						

M-METRIC PART

FUEL SYSTEM

265-5562 FILTER & LINES GP-FUEL (contd.)

i02623727



GRAPHIC #1

<END>

g01190286

FUEL SYSTEM

288-4593 FILTER GP-FUEL

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1261

i02529638

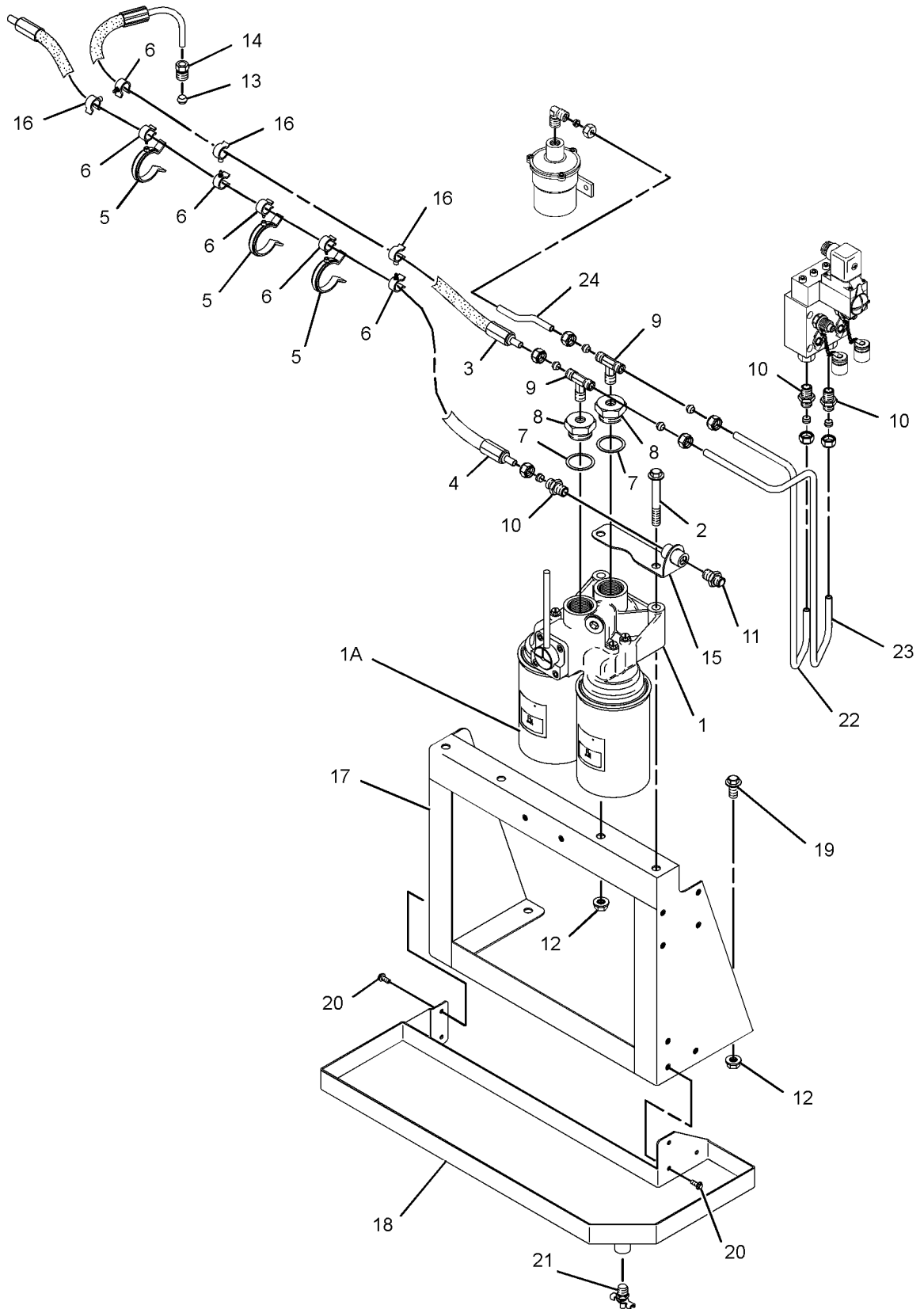
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	288-4572	1	FILTER AS-FUEL						
	1A	1	287-6052	2	FILTER-FUEL						
	2	1	6I-4045	2	BOLT (M10X1.5X75-MM)						
	3	1	288-4574	1	HOSE AS						
	4	1	288-4575	1	HOSE AS						
	5	1	288-4576	3	CLIP						
	6	1	263-8001	6	CLIP						
	7	1	288-4577	2	WASHER						
	8	1	288-4579	2	ADAPTER						
	9	1	288-4580	2	ADAPTER-TEE						
	10	1	288-4581	3	ADAPTER						
	11	1	231-0324	1	ADAPTER						
	12	1	6I-0594	6	NUT (M10X1.15-THD)						
	13	1	067-6269	1	FERRULE						
	14	1	067-6268	1	NUT-FUEL LINE (1/2-IN)						
	15	1	288-4582	1	BRACKET						
	16	1	263-7999	3	CLIP						
	17	1	288-4583	1	BRACKET						
	18	1	288-4585	1	TRAY-DRIP						
M	19	1	100-4830	4	BOLT (M10X1.5X20-MM)						
	20	1	245-6541	5	BOLT						
	21	1	288-4588	1	PLUG-DRAIN						
	22	1	288-4589	1	TUBE						
	23	1	288-4591	1	TUBE						
	24	1	288-4590	1	TUBE						

M-METRIC PART

FUEL SYSTEM

288-4593 FILTER GP-FUEL (contd.)

i02529638



GRAPHIC #1

<END>

g01271193

FUEL SYSTEM

263-8003 LINES GP-FLEXIBLE FUEL

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1274

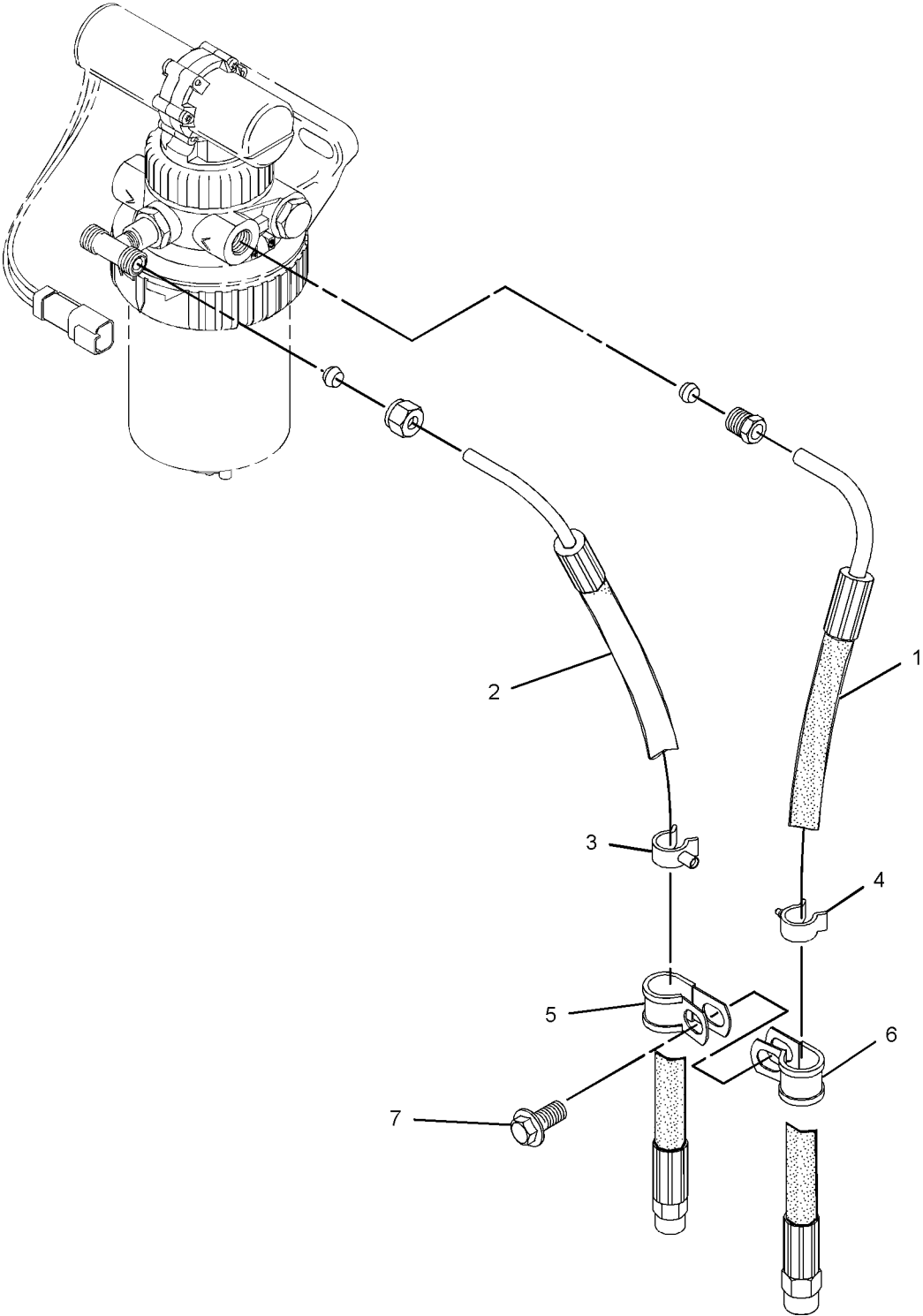
i02288470

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE	
					1	2	3	4	5	6 (PRODUCT LEVEL)		
	1	1	263-7995	1	HOSE	AS						
	2	1	263-7997	1	HOSE	AS						
	3	1	263-7999	1	CLIP							
	4	1	263-8001	1	CLIP							
	5	1	205-8712	1	CLIP							
	6	1	193-5183	1	CLIP							
M	7	1	100-4830	1	BOLT	(M10X1.5X20-MM)						
M-METRIC PART												

FUEL SYSTEM

263-8003 LINES GP-FLEXIBLE FUEL (contd.)

i02288470



GRAPHIC #1

<END>

g01147967

FUEL SYSTEM

263-8674 LINES GP-FLEXIBLE FUEL

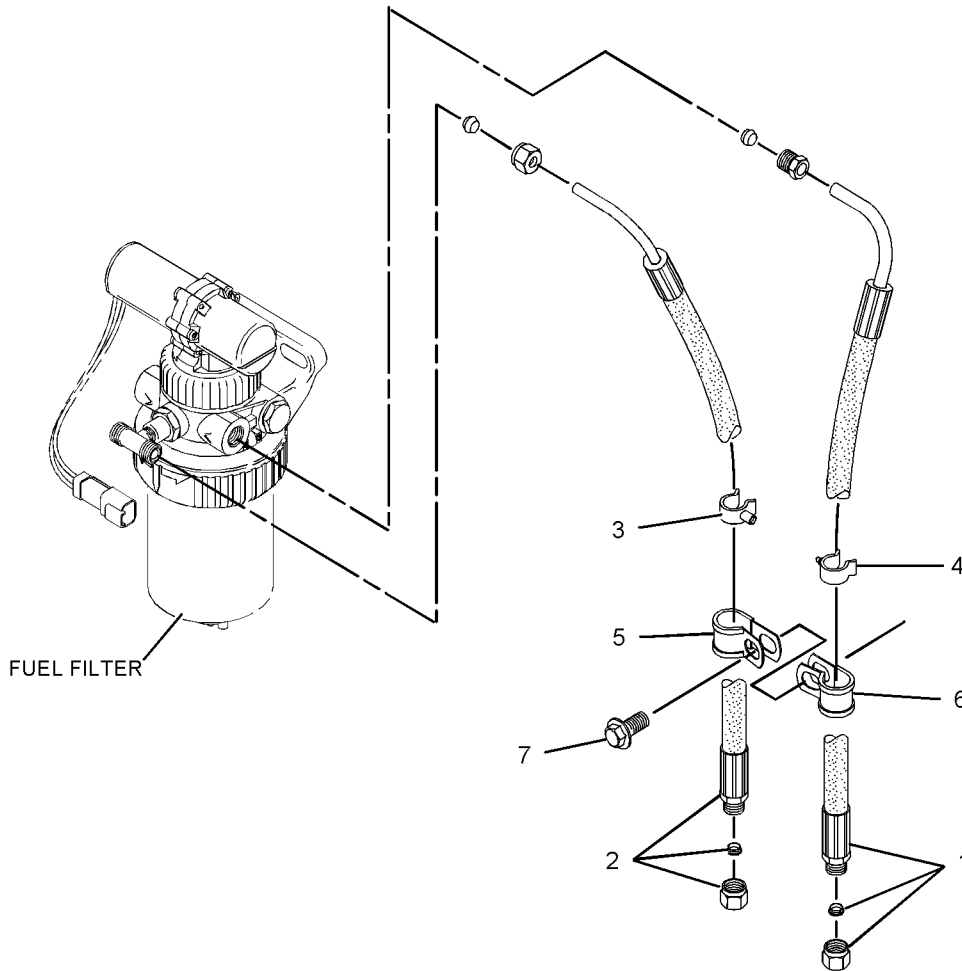
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1274

i02288610

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-8669	1	HOSE AS						
	2	1	263-8670	1	HOSE AS						
	3	1	263-7999	1	CLIP						
	4	1	263-8001	1	CLIP						
	5	1	205-8712	1	CLIP						
	6	1	193-5183	1	CLIP						
M	7	1	100-4830	1	BOLT (M10X1.5X20-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01147830

FUEL SYSTEM

263-8111 LINES GP-FUEL

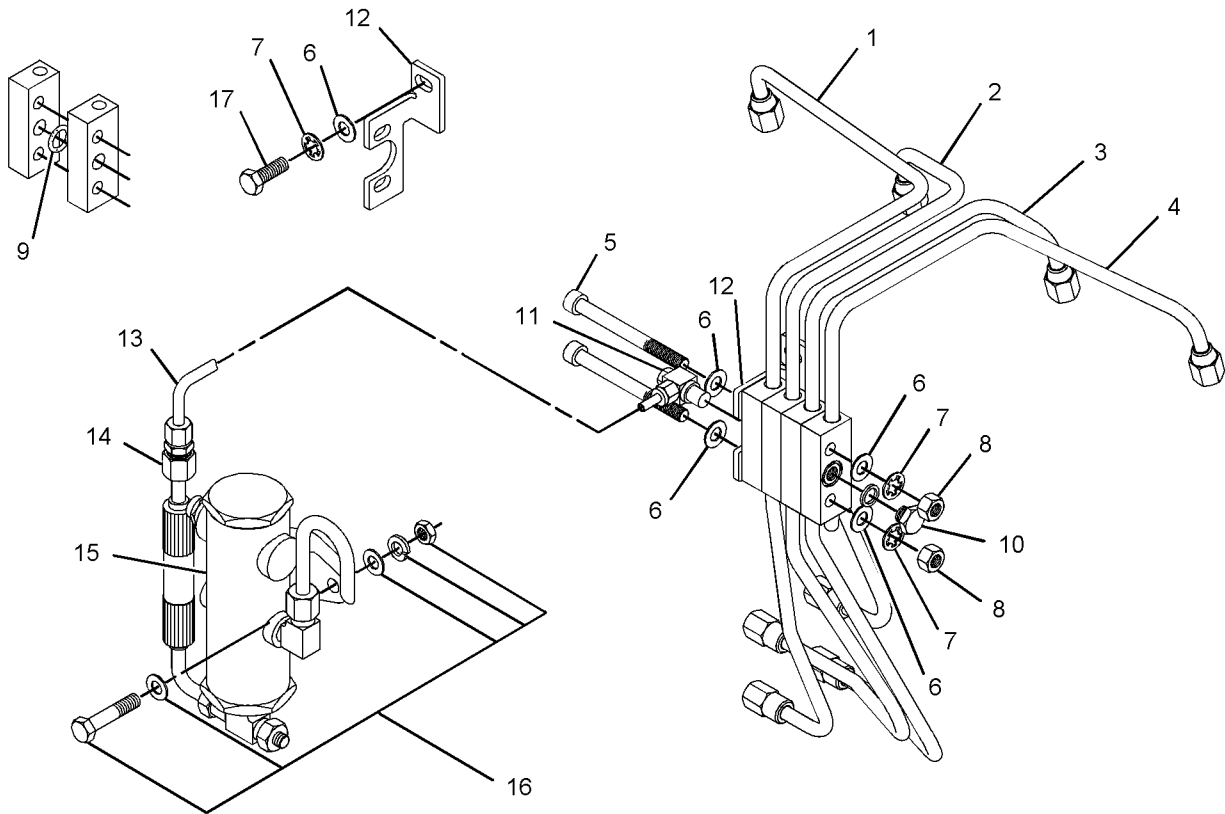
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1274

i02288477

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-8093	1	LINE AS-FUEL (CYLINDER ONE)						
	2	1	263-8094	1	LINE AS-FUEL (CYLINDER TWO)						
	3	1	263-8095	1	LINE AS-FUEL (CYLINDER THREE)						
	4	1	263-8096	1	LINE AS-FUEL (CYLINDER FOUR)						
M	5	1	8T-2224	2	BOLT-SOCKET HEAD						
	6	1	8T-4224	5	WASHER-HARD (8.8X16X2-MM THK)						
	7	1	234-3106	3	WASHER						
	8	1	196-7699	2	NUT (M8X6.5-MM)						
	9	1	234-3108	3	SEAL-O-RING						
	10	1	234-3350	1	PLUG						
	11	1	234-3068	1	FITTING AS						
	12	1	263-8098	1	BRACKET						
	13	1	234-3353	1	TUBE						
	14	1	234-3107	1	COUPLING						
	15	1	169-0122	1	TANK AS-FUEL (ALARM)						
	16	1	205-7289	1	FASTENER GP						
	17	1	196-0340	1	SETSCREW (M8X25)						

M-METRIC PART



GRAPHIC #1

<END>

g01147798

FUEL SYSTEM

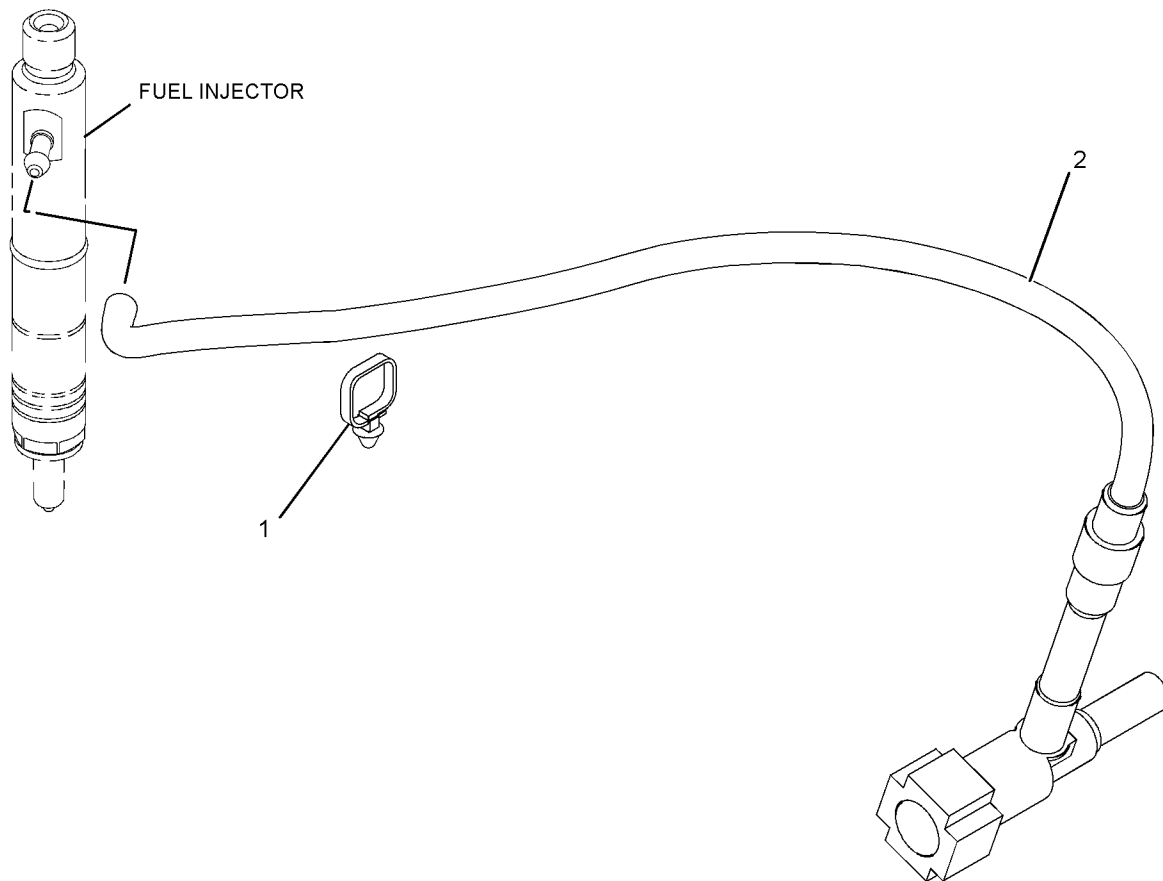
267-7069 LINES GP-FUEL

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1274

i02315995

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	235-6281	1	TIE - CABLE						
	2	1	267-7065	1	TUBE						



GRAPHIC #1

<END>

g01160595

FUEL SYSTEM

287-5627 LINES GP-FUEL

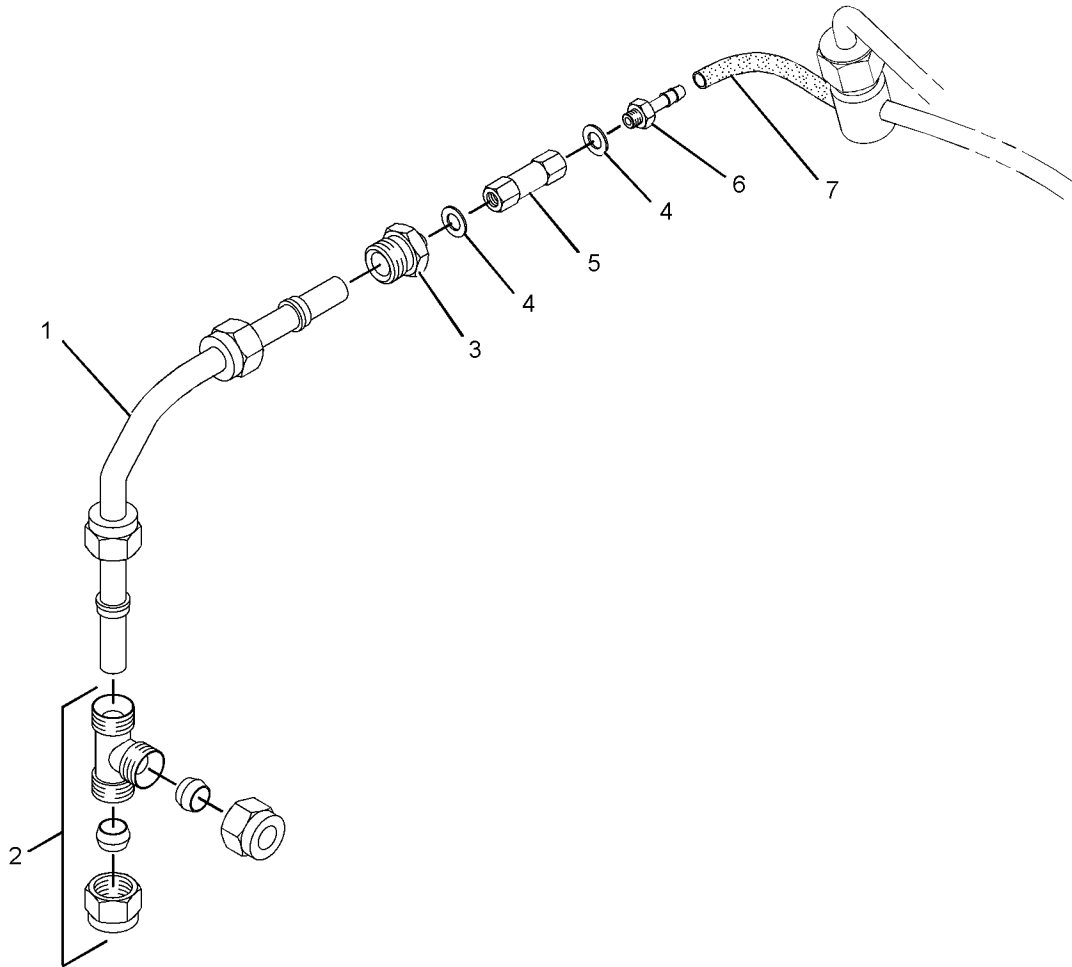
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1274

i02516103

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	287-5624	1	TUBE						
	2	1	287-5625	1	ADAPTER (BRASS)						
	3	1	287-5626	1	ADAPTER (PLATED STEEL)						
	4	1	265-5546	2	WASHER (5.1X8X1-MM THK)						
	5	1	265-5547	1	VALVE						
	6	1	265-5545	1	ADAPTER (NICKLE PLATED BRASS)						
E	7	1	276-9384		HOSE (8-CM)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01260137

FUEL SYSTEM

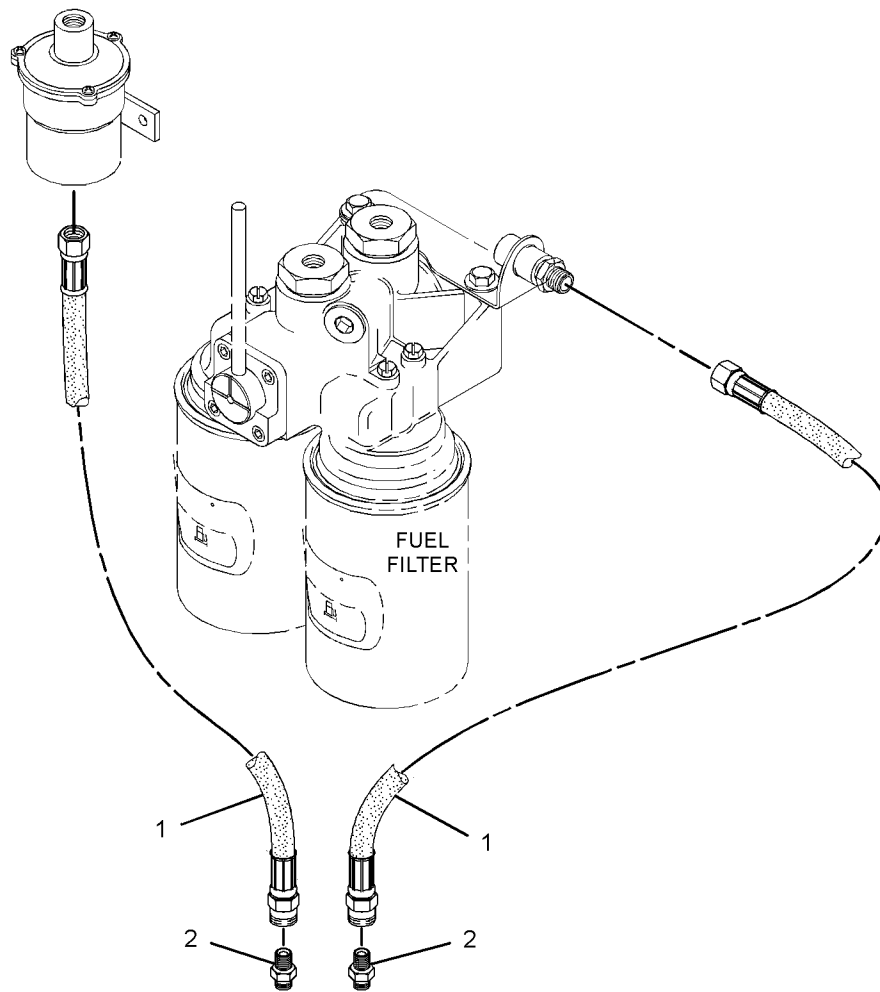
289-9772 LINES GP-FUEL

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1274

i02540156

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-8791	2	HOSE AS						
	2	1	231-0324	2	ADAPTER						



GRAPHIC #1

<END>

g01273810

FUEL SYSTEM

247-4885 LINES GP-FUEL FILTER

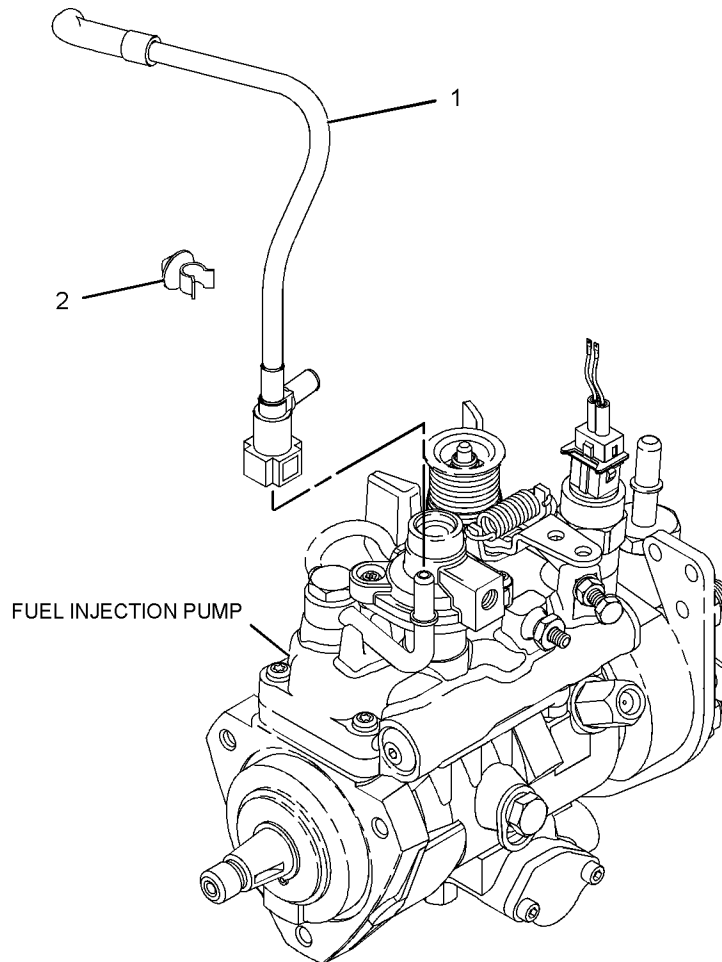
S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1261, 1274

i02317987

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	247-4884	1	TUBE AS						
	2	1	232-3126	1	CLIP						



GRAPHIC #1

<END>

g01123693

FUEL SYSTEM

272-2221 PUMP GP-FUEL INJECTION

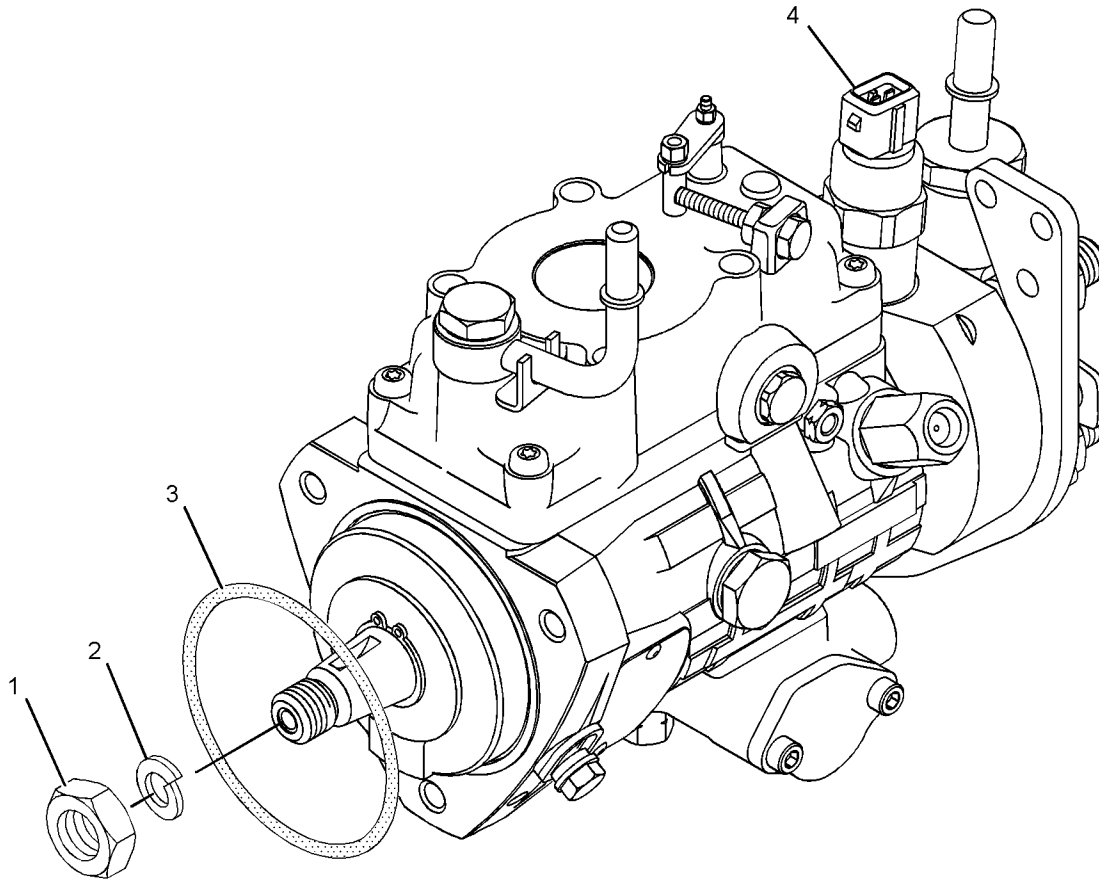
S/N: J1Z1-UP

PART OF 272-2222 PUMP GP-FUEL INJECTION
AN ATTACHMENT

SMCS-1251, 1290

i02623737

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	111-3422	1	NUT						
	2	1	111-3423	1	WASHER						
	3	1	152-3968	1	SEAL-O-RING (UNIT INJECTOR HYD PUMP)						
	4	1	176-6219	1	VALVE GP-SOLENOID (12-VOLT) (FUEL SHUTOFF)						



GRAPHIC #1

<END>

g01160107

FUEL SYSTEM

272-2222 PUMP GP-FUEL INJECTION

S/N: J1Z1-UP
AN ATTACHMENT

SMCS-1251, 1290

i02585847

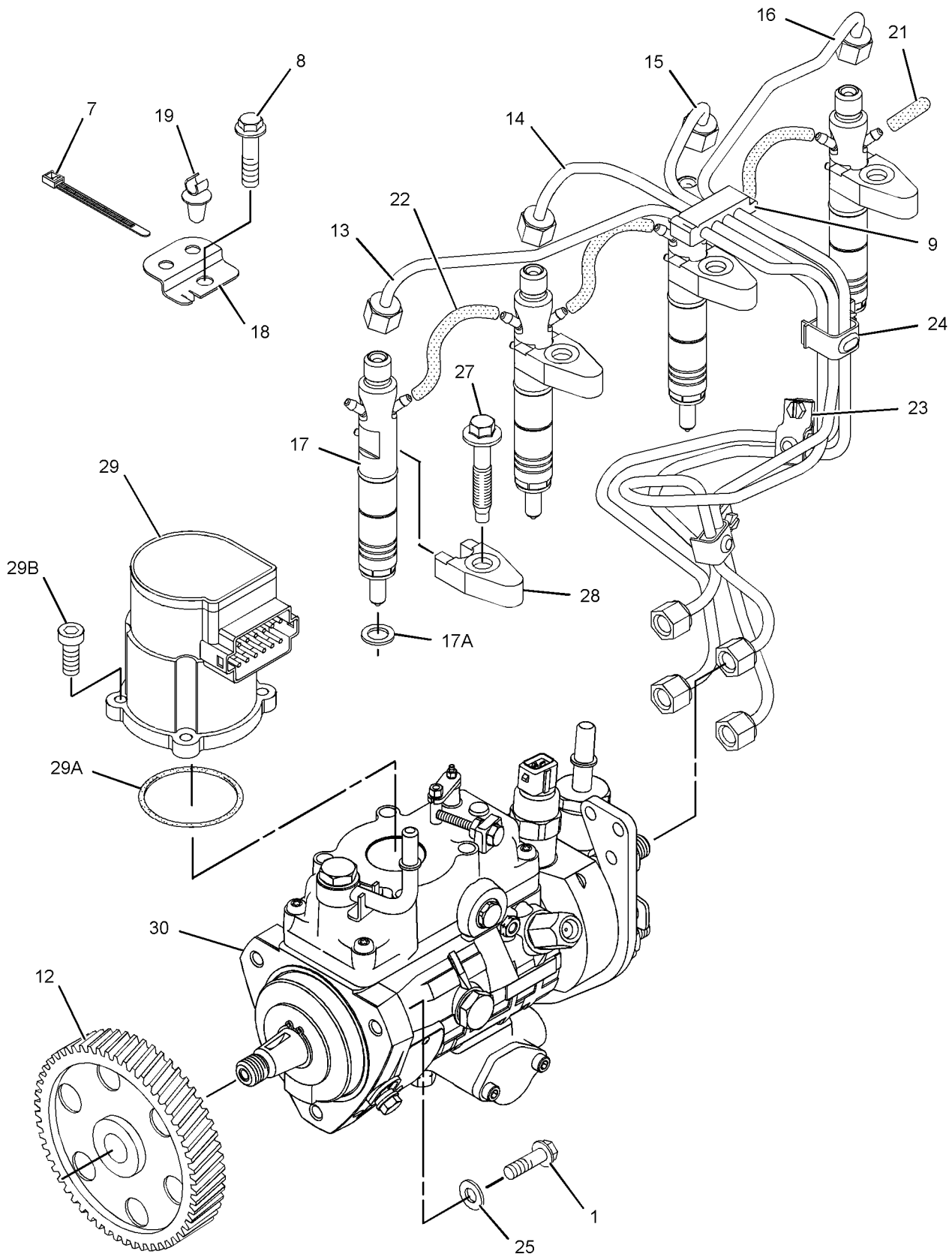
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
	4	2	7M-7410	1	PLUG-PIPE						
	5	2	9F-2247	1	PLUG-PIPE						
	7	1	110-8760	1	STRAP						
M	8	1	124-3815	1	BOLT (M8X16X1.25-MM)						
	9	1	140-8714	1	CLIP						
	10	2	203-6797	1	SENSOR-SPEED (ENGINE)						
	11	2	203-6798	1	ADAPTER						
	12	1	230-8989	1	GEAR-FUEL PUMP						
	13	1	230-8995	1	TUBE AS (CYL NO.1)						
	14	1	230-8996	1	TUBE AS (CYL NO.2)						
	15	1	230-8997	1	TUBE AS (CYL NO.3)						
	16	1	230-8998	1	TUBE AS (CYL NO.4)						
	17	1	230-8999	4	INJECTOR AS-FUEL (EACH INCLUDES)						
	17A	1	140-8718	1	WASHER						
	18	1	230-9527	1	BRACKET						
	19	1	232-1115	1	CLIP-PIPE						
	20	2	232-1323	1	PLUG-CUP						
	21	1	232-1328	1	CAP						
	22	1	232-1794	3	HOSE						
	23	1	232-2725	2	CLIP						
	24	1	232-2726	1	CLIP						
	25	1	232-3149	3	WASHER (8.35X16.85X1.55-MM THK)						
	27	1	232-3274	4	BOLT (M8X1.25X48.1-MM)						
	28	1	238-8671	4	CLAMP-INJECTOR						
	29	1	272-2223	1	ACTUATOR GP-GOVERNOR						
	29A	1	241-4288	4	SEAL-O-RING						
	29B	1	241-4291	1	SCREW						
Y	30	1	272-2221	1	PUMP GP-FUEL INJECTION						184

M-METRIC PART
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

272-2222 PUMP GP-FUEL INJECTION (contd.)

i02585847



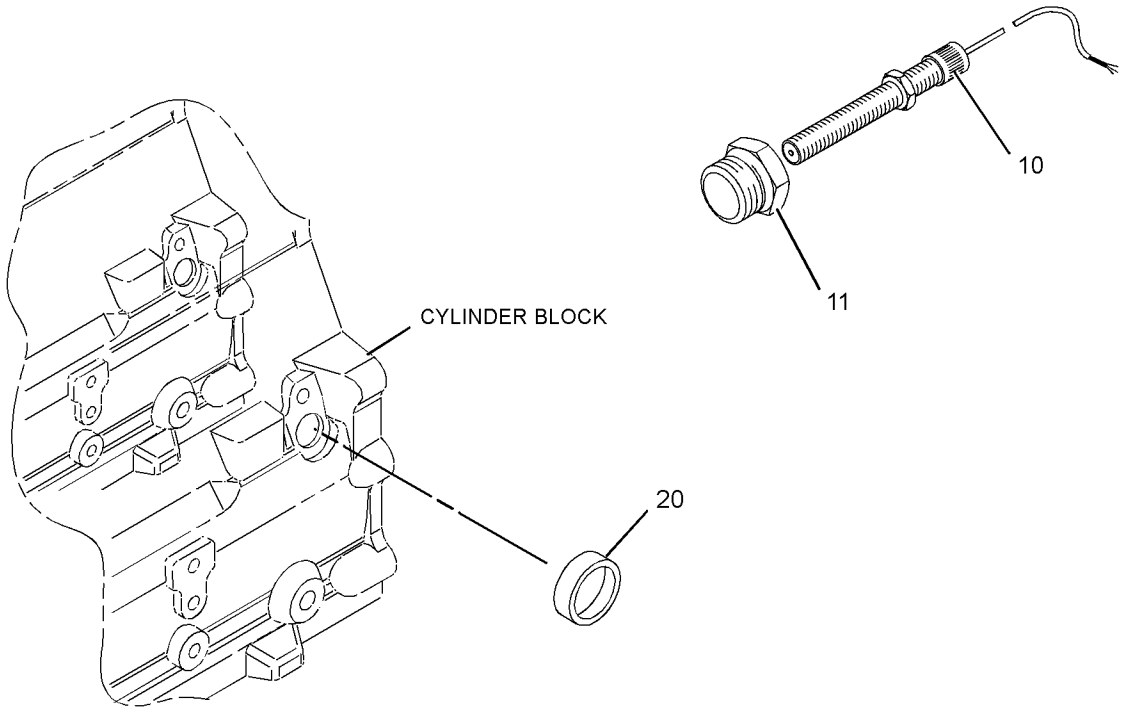
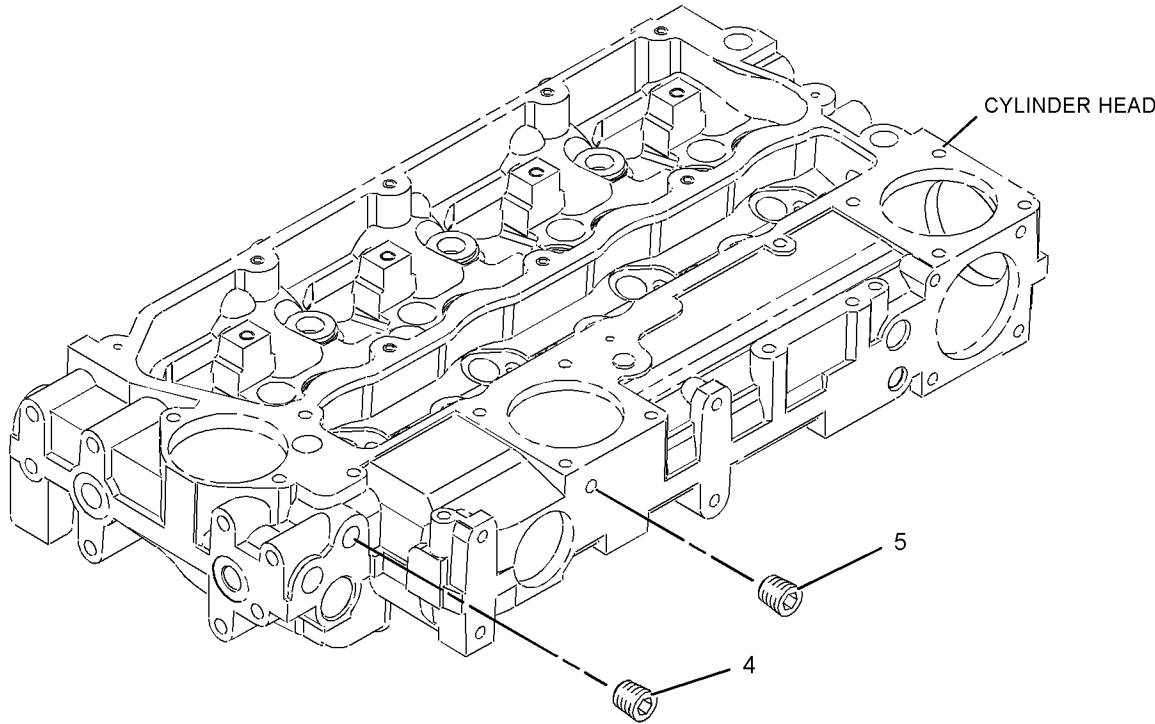
GRAPHIC #1

g01299166

FUEL SYSTEM

272-2222 PUMP GP-FUEL INJECTION (contd.)

i02585847



GRAPHIC #2

<END>

g01158460

FUEL SYSTEM

272-2290 PUMP GP-FUEL INJECTION

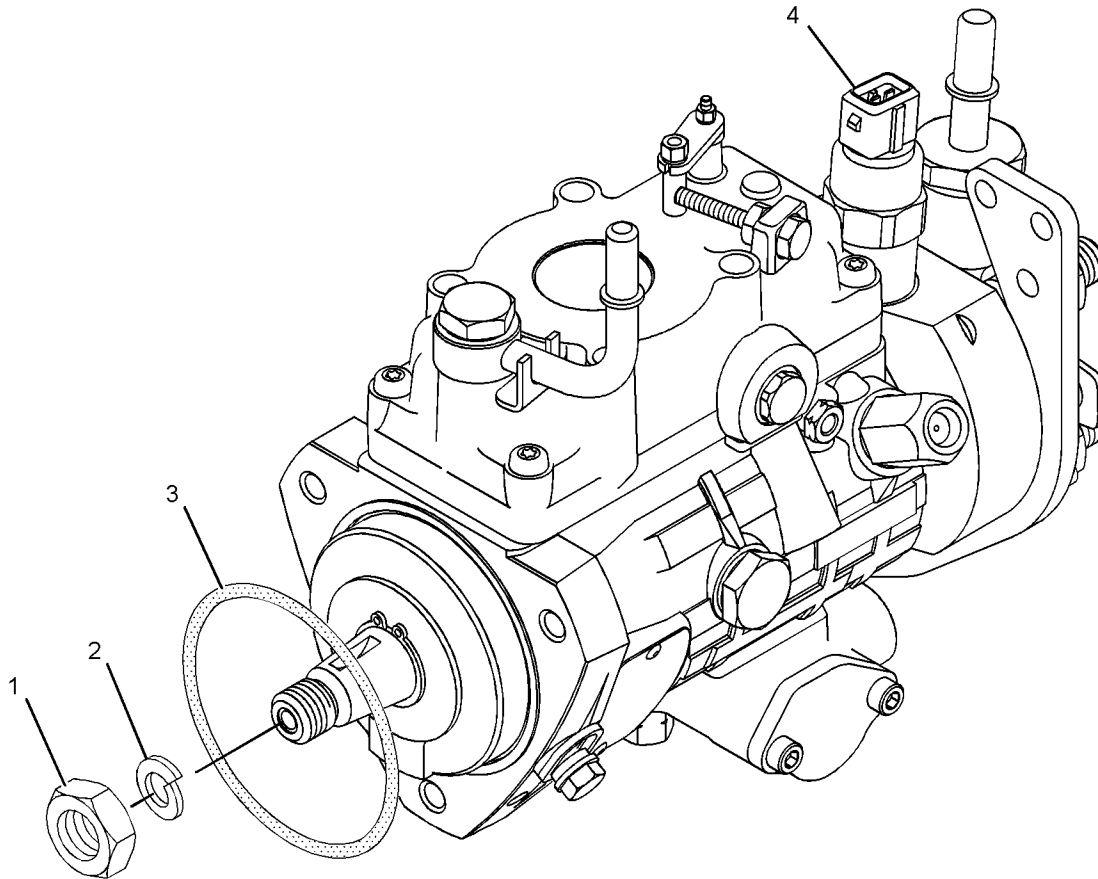
S/N: J1Z1-UP

PART OF 272-2291 PUMP GP-FUEL INJECTION
AN ATTACHMENT

SMCS-1251, 1290

i02623654

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	111-3422	1	NUT						
	2	1	111-3423	1	WASHER						
	3	1	152-3968	1	SEAL-O-RING						
	4	1	176-6219	1	VALVE GP-SOLENOID (12-VOLT) (FUEL SHUTOFF)						



GRAPHIC #1

<END>

g01160107

FUEL SYSTEM

272-2291 PUMP GP-FUEL INJECTION

S/N: J1Z1-UP
AN ATTACHMENT

SMCS-1251, 1290

i02585845

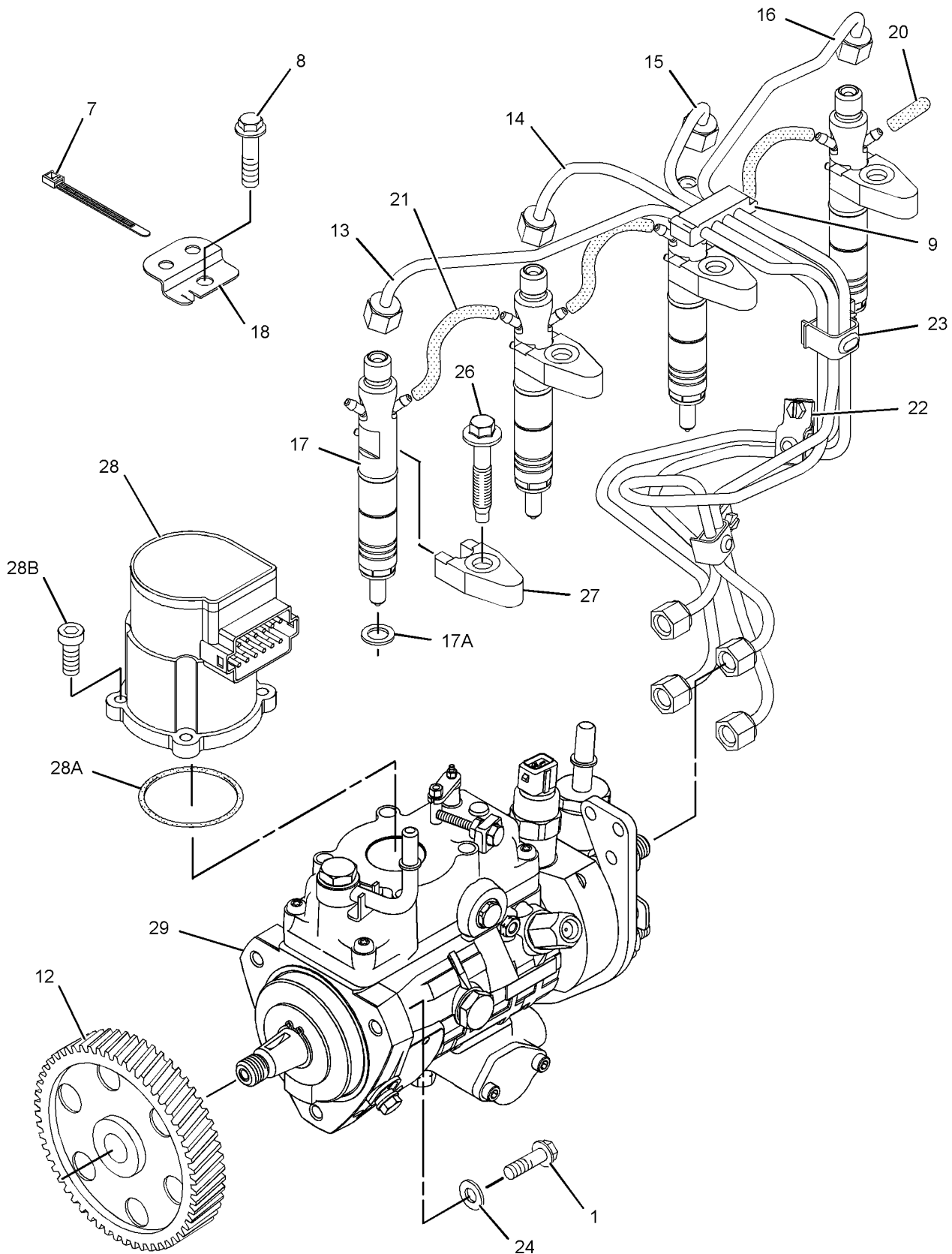
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
M	1	1	6I-0260	3	BOLT (M8X1.25X25-MM)	
	4	2	7M-7410	1	PLUG-PIPE	
	5	2	9F-2247	1	PLUG-PIPE	
	7	1	110-8760	1	STRAP	
M	8	1	124-3815	1	BOLT (M8X16X1.25-MM)	
	9	1	140-8714	1	CLIP	
	10	2	203-6797	1	SENSOR-SPEED (ENGINE)	
	11	2	203-6798	1	ADAPTER	
	12	1	230-8989	1	GEAR-FUEL PUMP	
	13	1	230-8995	1	TUBE AS (CYL NO.1)	
	14	1	230-8996	1	TUBE AS (CYL NO.2)	
	15	1	230-8997	1	TUBE AS (CYL NO.3)	
	16	1	230-8998	1	TUBE AS (CYL NO.4)	
	17	1	230-8999	4	INJECTOR AS-FUEL (EACH INCLUDES)	
	17A	1	140-8718	1	WASHER	
	18	1	230-9527	1	BRACKET	
	19	2	232-1323	1	PLUG-CUP	
	20	1	232-1328	1	CAP	
	21	1	232-1794	3	HOSE	
	22	1	232-2725	2	CLIP	
	23	1	232-2726	1	CLIP	
24	1	232-3149	3	WASHER (8.35X16.85X1.55-MM THK)		
26	1	232-3274	4	BOLT (M8X1.25X48.1-MM)		
27	1	238-8671	4	CLAMP-INJECTOR		
28	1	272-2223	1	ACTUATOR GP-GOVERNOR		
28A	1	241-4288	4	SEAL-O-RING		
28B	1	241-4291	1	SCREW		
Y	29	1	272-2290	1	PUMP GP-FUEL INJECTION	188

M-METRIC PART
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

272-2291 PUMP GP-FUEL INJECTION (contd.)

i02585845



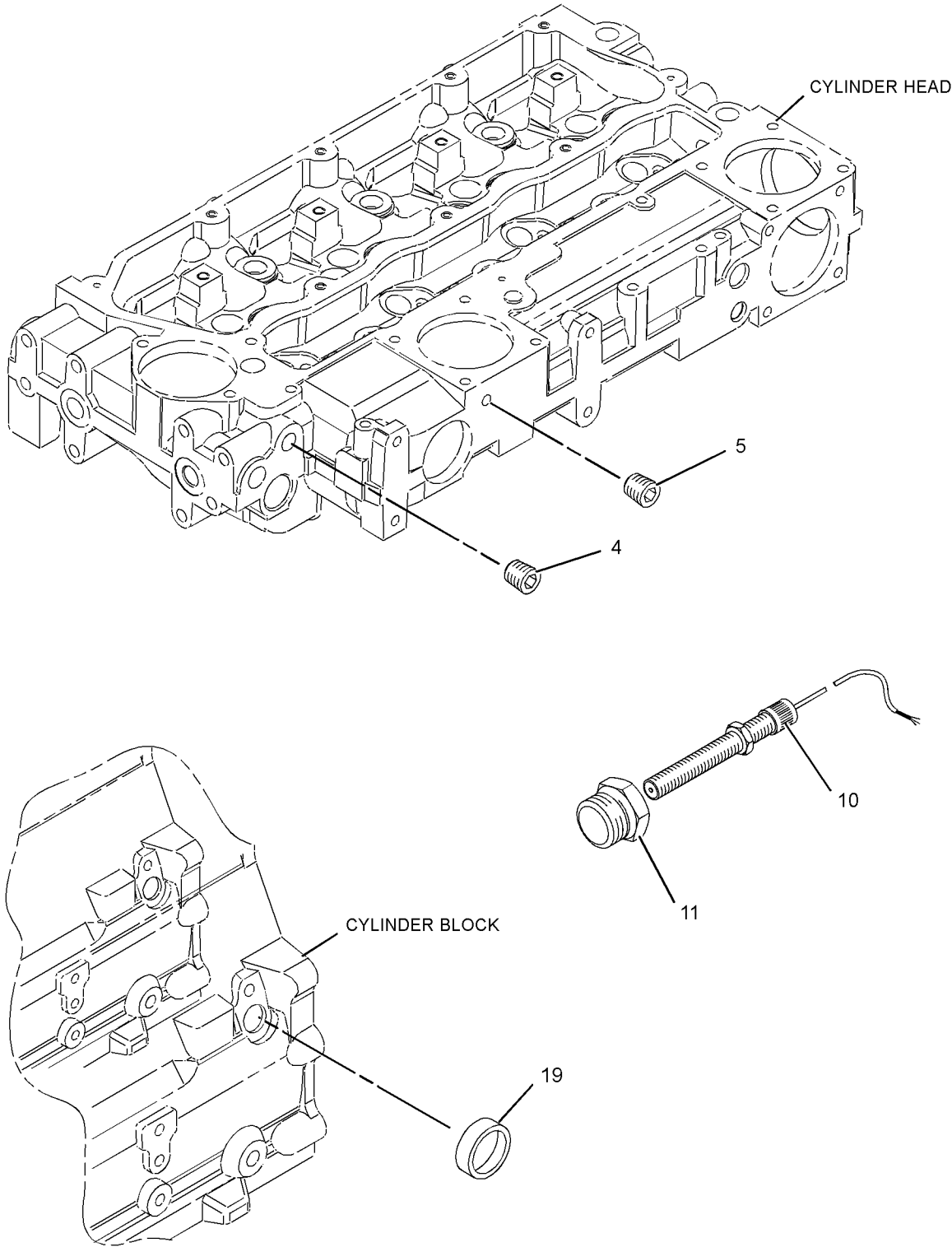
GRAPHIC #1

g01300569

FUEL SYSTEM

272-2291 PUMP GP-FUEL INJECTION (contd.)

i02585845



GRAPHIC #2

<END>

g01160857

FUEL SYSTEM

272-2797 PUMP GP-FUEL INJECTION

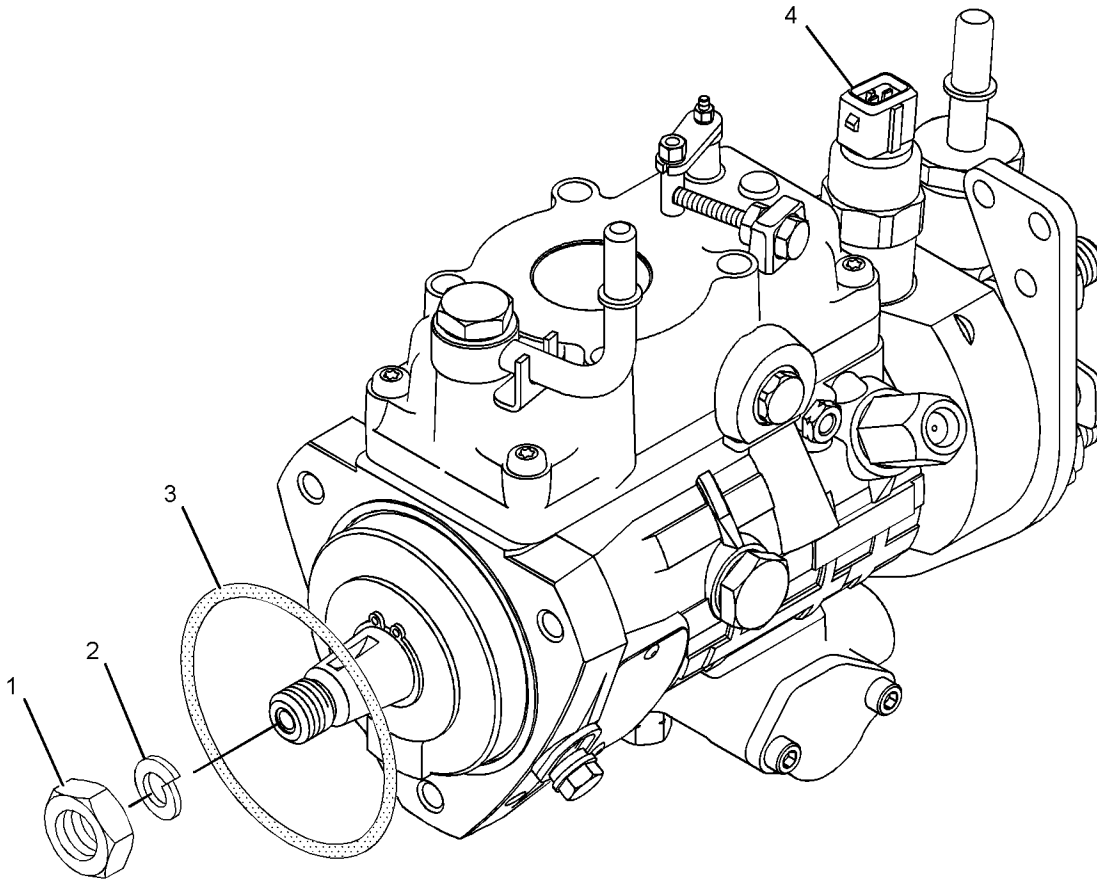
S/N: J1Z1-UP

PART OF 272-2799 PUMP GP-FUEL INJECTION
AN ATTACHMENT

SMCS-1251, 1290

i02623738

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	111-3422	1	NUT						
	2	1	111-3423	1	WASHER						
	3	1	152-3968	1	SEAL-O-RING						
	4	1	176-6219	1	VALVE GP-SOLENOID (12-VOLT) (FUEL SHUTOFF)						



GRAPHIC #1

<END>

g01160107

FUEL SYSTEM

272-2799 PUMP GP-FUEL INJECTION

S/N: J1Z1-UP
AN ATTACHMENT

SMCS-1251, 1290

i02585843

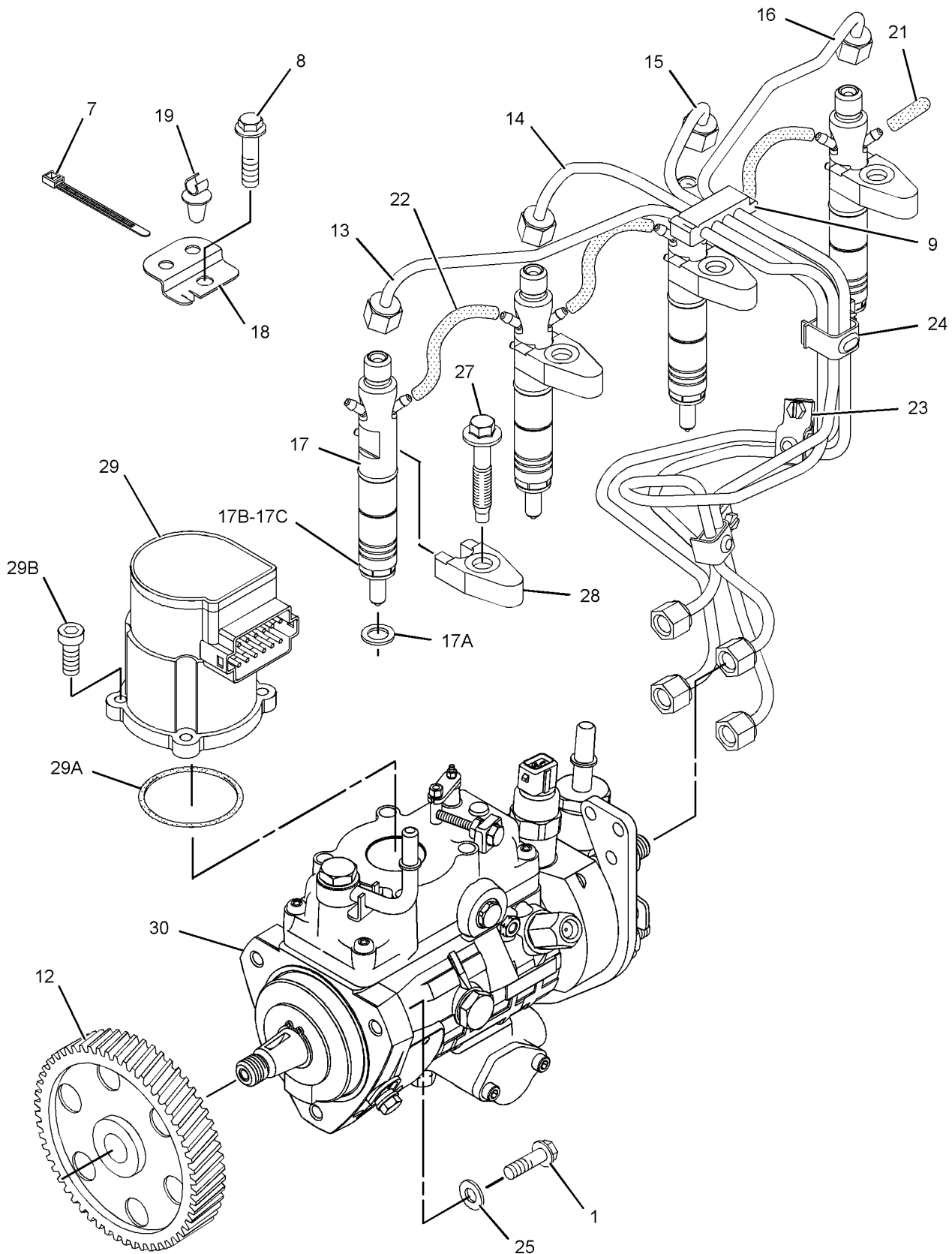
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
	4	2	7M-7410	1	PLUG-PIPE						
	5	2	9F-2247	1	PLUG-PIPE						
	7	1	110-8760	1	STRAP						
M	8	1	124-3815	1	BOLT (M8X16X1.25-MM)						
	9	1	140-8714	1	CLIP						
	10	2	203-6797	1	SENSOR-SPEED (ENGINE)						
	11	2	203-6798	1	ADAPTER						
	12	1	230-8989	1	GEAR-FUEL PUMP						
	13	1	230-8995	1	TUBE AS (CYL NO.1)						
	14	1	230-8996	1	TUBE AS (CYL NO.2)						
	15	1	230-8997	1	TUBE AS (CYL NO.3)						
	16	1	230-8998	1	TUBE AS (CYL NO.4)						
	17	1	230-8999	4	INJECTOR AS-FUEL						
					(EACH INCLUDES)						
	17A	1	140-8718	1	WASHER						
	17B	1	232-2724	1	NOZZLE						
	17C	1	275-1038	1	SEAL-O-RING						
	18	1	230-9527	1	BRACKET						
	19	1	232-1115	1	CLIP-PIPE						
	20	2	232-1323	1	PLUG-CUP						
	21	1	232-1328	1	CAP						
	22	1	232-1794	3	HOSE						
	23	1	232-2725	2	CLIP						
	24	1	232-2726	1	CLIP						
	25	1	232-3149	3	WASHER (8.35X16.85X1.55-MM THK)						
	27	1	232-3274	1	BOLT (M8X1.25X48.1-MM)						
	28	1	238-8671	4	CLAMP-INJECTOR						
	29	1	272-2223	1	ACTUATOR GP-GOVERNOR						
	29A	1	241-4288	1	SEAL-O-RING						
	29B	1	241-4291	4	SCREW						
Y	30	1	272-2797	1	PUMP GP-FUEL INJECTION						192

M-METRIC PART
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

272-2799 PUMP GP-FUEL INJECTION (contd.)

i02585843



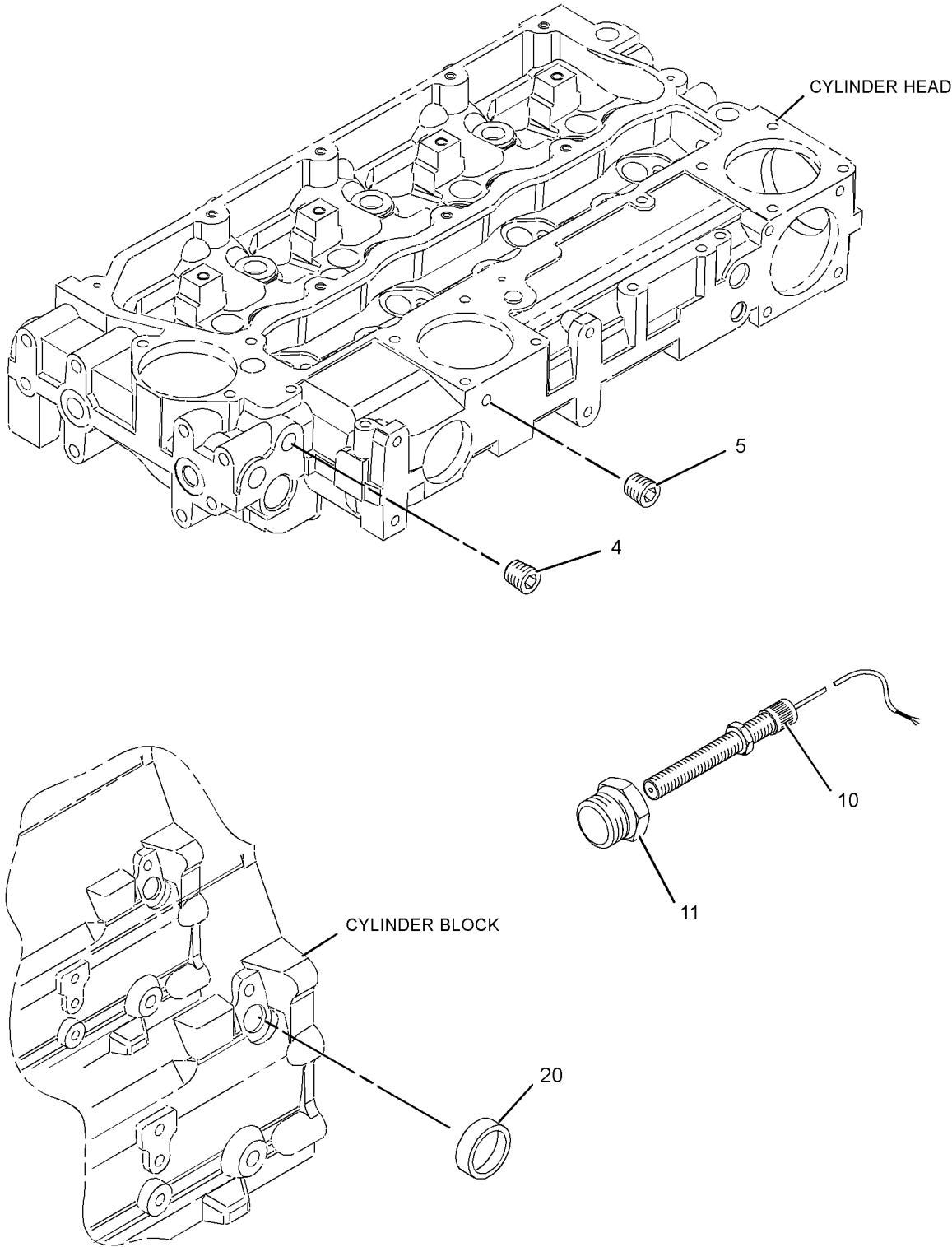
GRAPHIC #1

g01295166

FUEL SYSTEM

272-2799 PUMP GP-FUEL INJECTION (contd.)

i02585843



GRAPHIC #2

<END>

g01158460

FUEL SYSTEM

273-0869 PUMP GP-FUEL INJECTION

S/N: D1K1-UP
AN ATTACHMENT

SMCS-1251, 1290

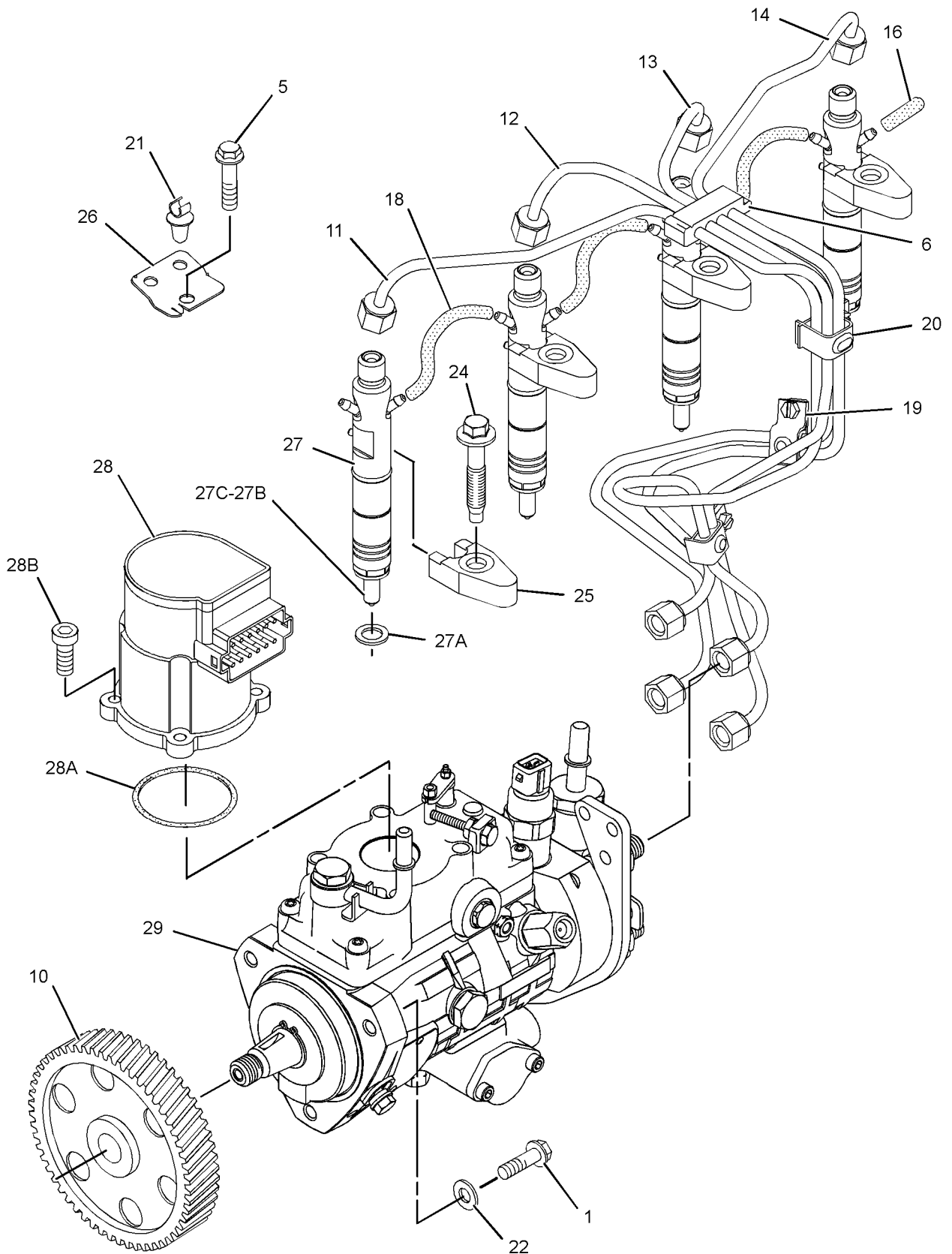
i02585890

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
M	5	1	124-3815	1	BOLT (M8X16X1.25-MM)						
	6	1	140-8714	1	CLIP						
	7	2	169-5326	1	SWITCH (TIMING ADVANCE) (ENGINE COOLANT)						
	8	2	203-6797	1	SENSOR-SPEED (ENGINE)						
	9	2	203-6798	1	ADAPTER						
	10	1	230-8989	1	GEAR-FUEL PUMP						
	11	1	230-8995	1	TUBE AS (CYL NO.1)						
	12	1	230-8996	1	TUBE AS (CYL NO.2)						
	13	1	230-8997	1	TUBE AS (CYL NO.3)						
	14	1	230-8998	1	TUBE AS (CYL NO.4)						
	15	2	232-1323	1	PLUG-CUP						
	16	1	232-1328	1	CAP						
	17	2	232-1793	1	CABLE						
	18	1	232-1794	2	HOSE						
	19	1	232-2725	2	CLIP						
	20	1	232-2726	1	CLIP						
	21	1	232-3126	1	CLIP						
	22	1	232-3149	3	WASHER (8.35X16.85X1.55-MM THK)						
	24	1	232-3274	3	BOLT (M8X1.25X48.1-MM)						
	25	1	238-8671	3	CLAMP-INJECTOR						
	26	1	240-5571	1	BRACKET						
	27	1	266-6830	3	INJECTOR AS-FUEL (EACH INCLUDES)						
	27A	1	140-8718	1	WASHER						
	27B	1	234-0387	1	NOZZLE						
	27C	1	275-1038	1	SEAL-O-RING						
	28	1	272-2223	1	ACTUATOR GP-GOVERNOR						
	28A	1	241-4288	4	SEAL-O-RING						
	28B	1	241-4291	1	SCREW						
	29	1	273-0870	1	PUMP GP-FUEL INJECTION						
M-METRIC PART											

FUEL SYSTEM

273-0869 PUMP GP-FUEL INJECTION (contd.)

i02585890



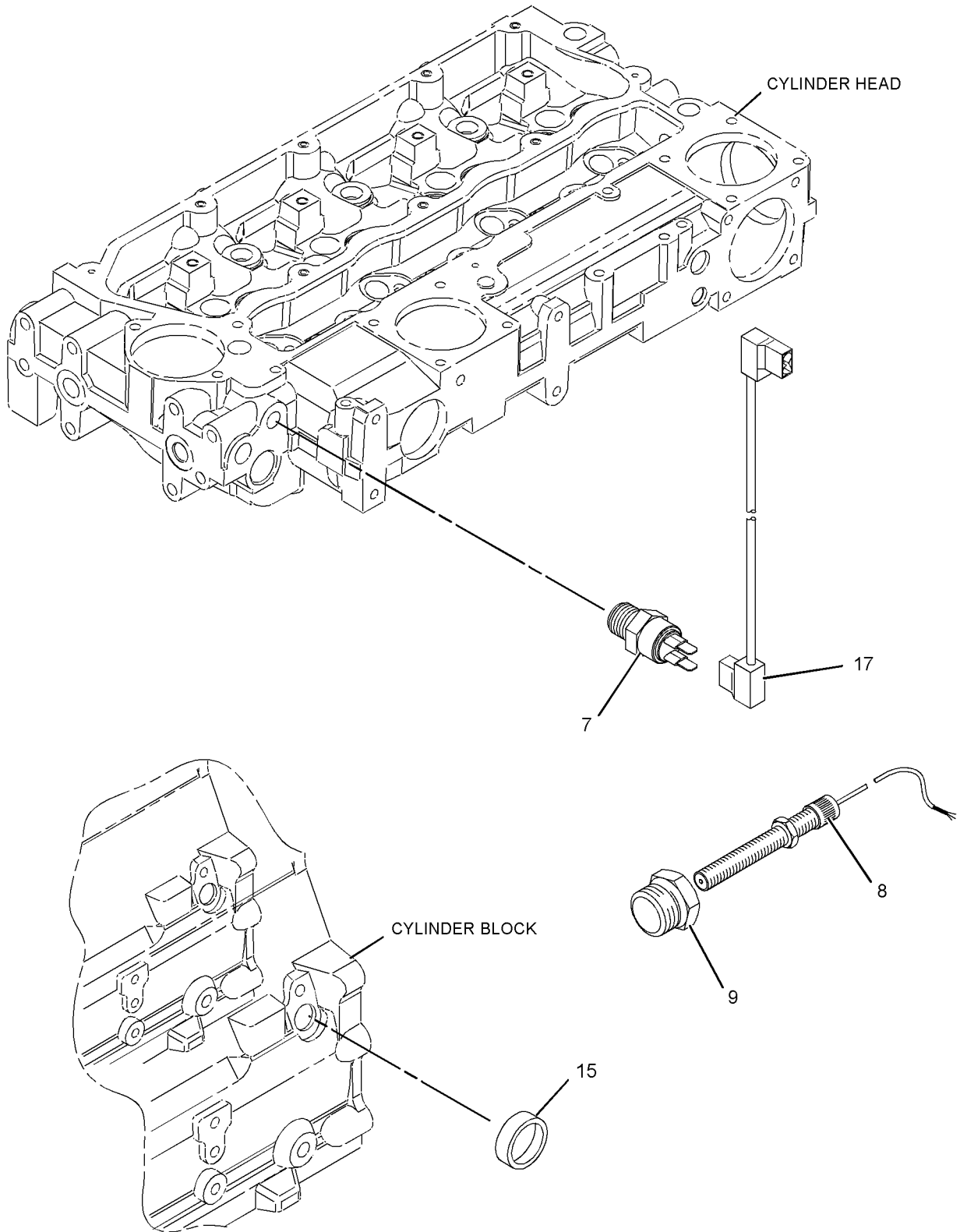
GRAPHIC #1

g01298430

FUEL SYSTEM

273-0869 PUMP GP-FUEL INJECTION (contd.)

i02585890



GRAPHIC #2

<END>

g01160773

FUEL SYSTEM

273-1407 PUMP GP-FUEL INJECTION

S/N: J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1251, 1290

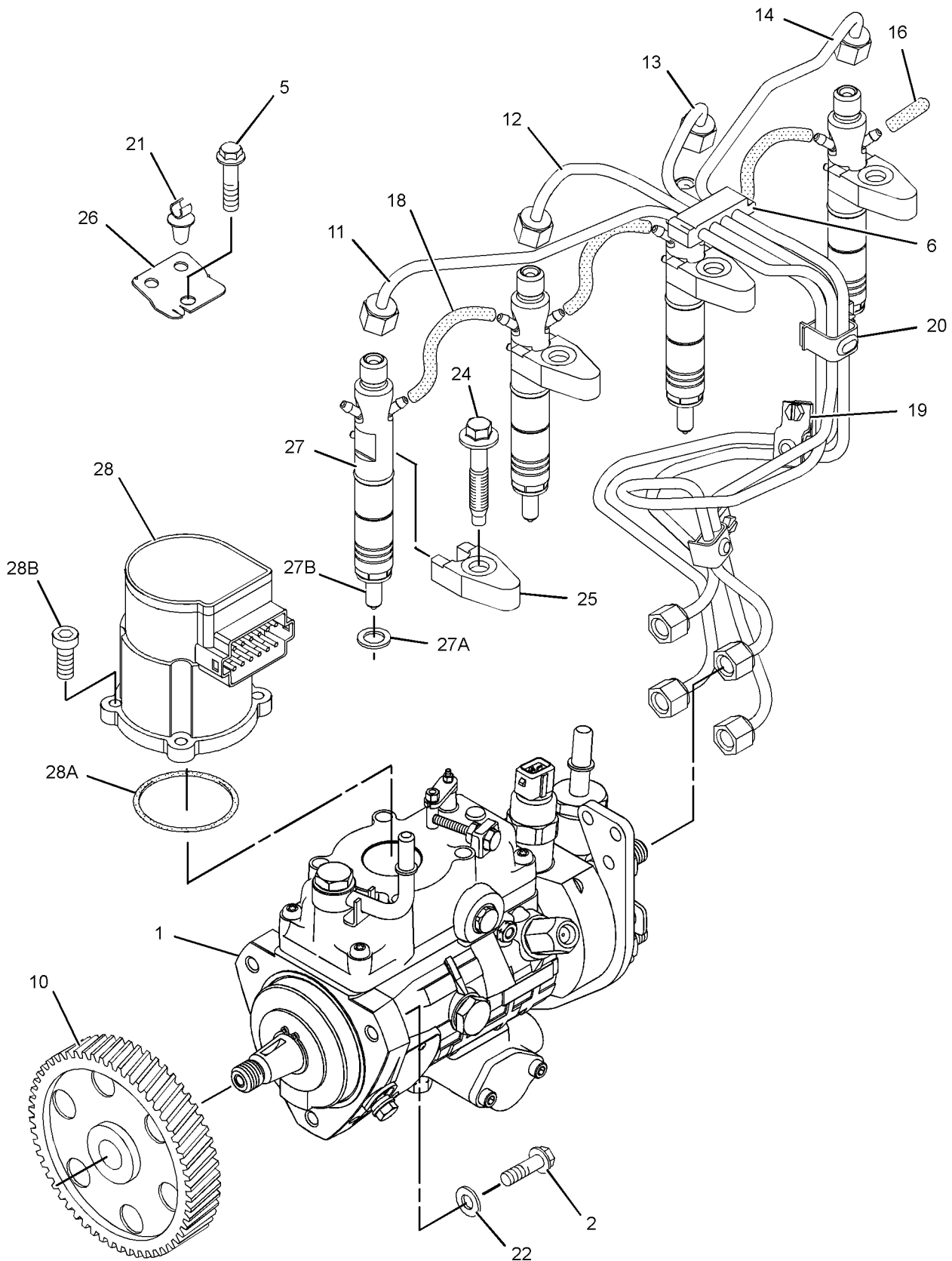
i02587658

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-1408	1	PUMP GP-FUEL INJECTION						
M	2	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
M	5	1	124-3815	1	BOLT (M8X16X1.25-MM)						
	6	1	140-8714	1	CLIP						
	7	2	169-5326	1	SWITCH (TIMING ADVANCE) (ENGINE COOLANT)						
	8	2	203-6797	1	SENSOR-SPEED (ENGINE)						
	9	2	203-6798	1	ADAPTER						
	10	1	230-8989	1	GEAR-FUEL PUMP						
	11	1	230-8995	1	TUBE AS (CYL NO.1)						
	12	1	230-8996	1	TUBE AS (CYL NO.2)						
	13	1	230-8997	1	TUBE AS (CYL NO.3)						
	14	1	230-8998	1	TUBE AS (CYL NO.4)						
	15	2	232-1323	1	PLUG-CUP						
	16	1	232-1328	1	CAP						
	17	2	232-1793	1	CABLE						
	18	1	232-1794	2	HOSE						
	19	1	232-2725	2	CLIP						
	20	1	232-2726	1	CLIP						
	21	1	232-3126	1	CLIP						
	22	1	232-3149	3	WASHER (8.35X16.85X1.55-MM THK)						
	24	1	232-3274	4	BOLT (M8X1.25X48.1-MM)						
	25	1	238-8671	4	CLAMP-INJECTOR						
	26	1	240-5571	1	BRACKET						
	27	1	236-1674	4	INJECTOR AS-FUEL						
					(EACH INCLUDES)						
	27A	1	140-8718	1	WASHER						
	27B	1	236-1673	1	NOZZLE						
	28	1	272-2223	1	ACTUATOR GP-GOVERNOR						
	28A	1	241-4288	4	SEAL-O-RING						
	28B	1	241-4291	1	SCREW						
M-METRIC PART											

FUEL SYSTEM

273-1407 PUMP GP-FUEL INJECTION (contd.)

i02587658



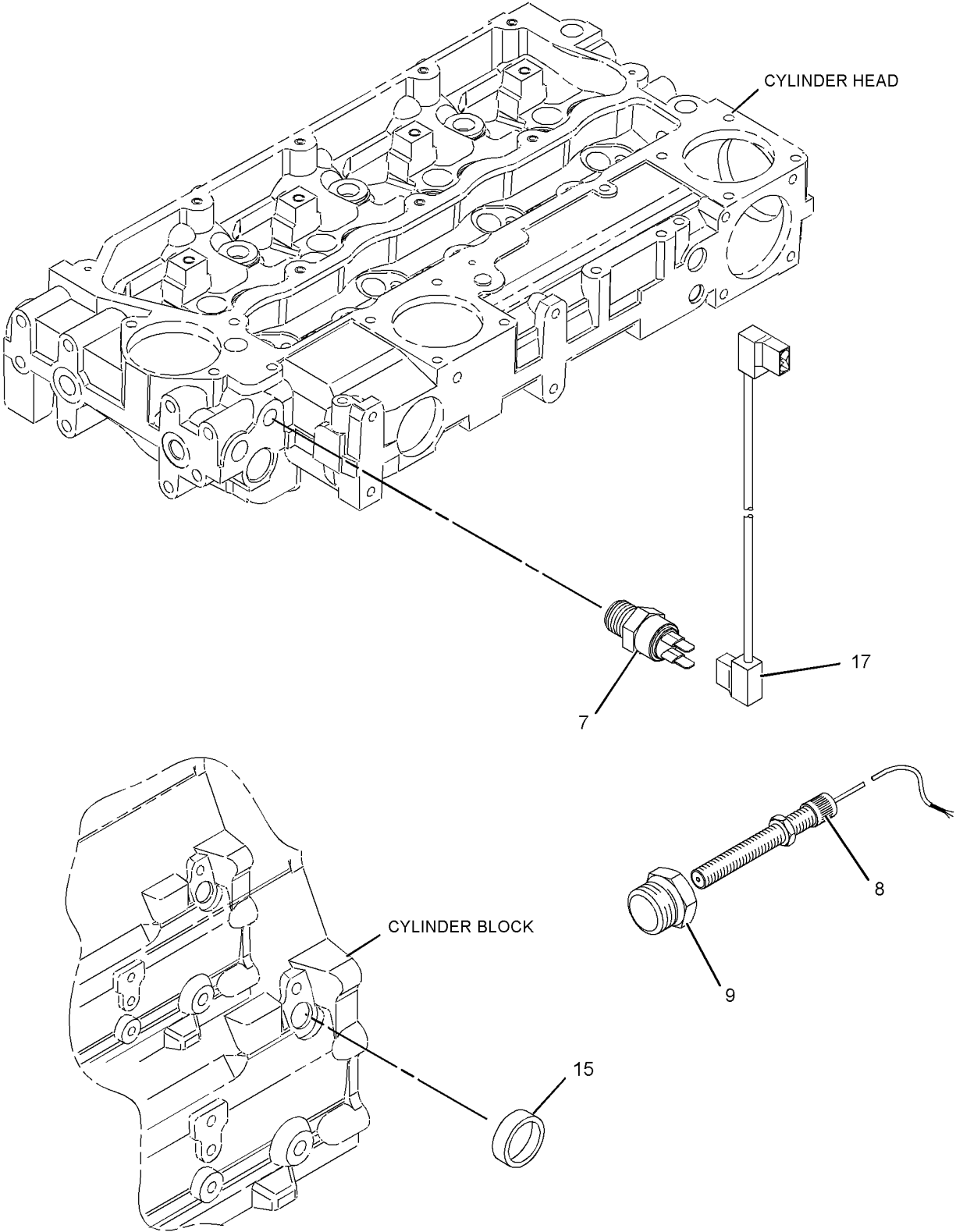
GRAPHIC #1

g01295331

FUEL SYSTEM

273-1407 PUMP GP-FUEL INJECTION (contd.)

i02587658



GRAPHIC #2

<END>

g01160773

FUEL SYSTEM

286-2364 PUMP GP-FUEL INJECTION

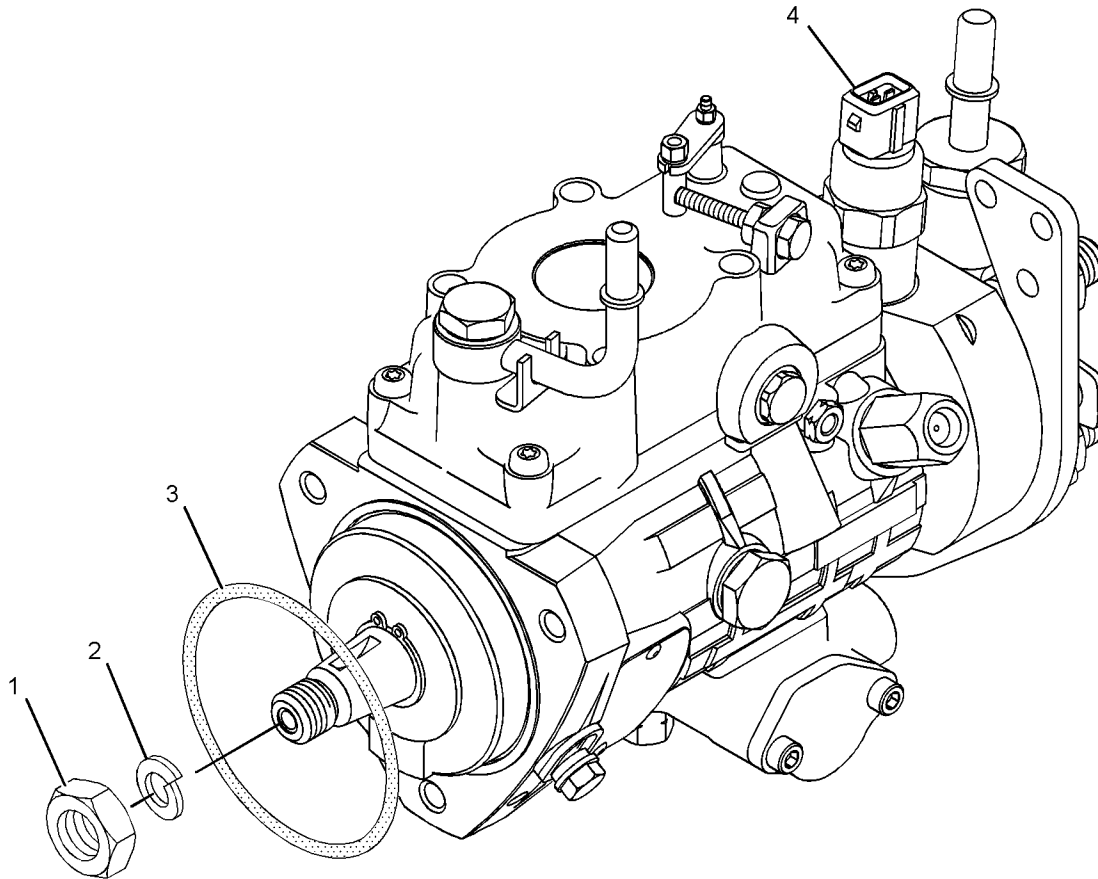
S/N: J1Z1-UP

PART OF 286-2365 PUMP GP-FUEL INJECTION
AN ATTACHMENT

SMCS-1251, 1290

i02623743

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	111-3422	1	NUT						
	2	1	111-3423	1	WASHER						
	3	1	152-3968	1	SEAL-O-RING						
	4	1	176-6219	1	VALVE GP-SOLENOID (12-VOLT) (FUEL SHUTOFF)						



GRAPHIC #1

<END>

g01160107

FUEL SYSTEM

286-2365 PUMP GP-FUEL INJECTION

S/N: J1Z1-UP
AN ATTACHMENT

SMCS-1251, 1290

i02510272

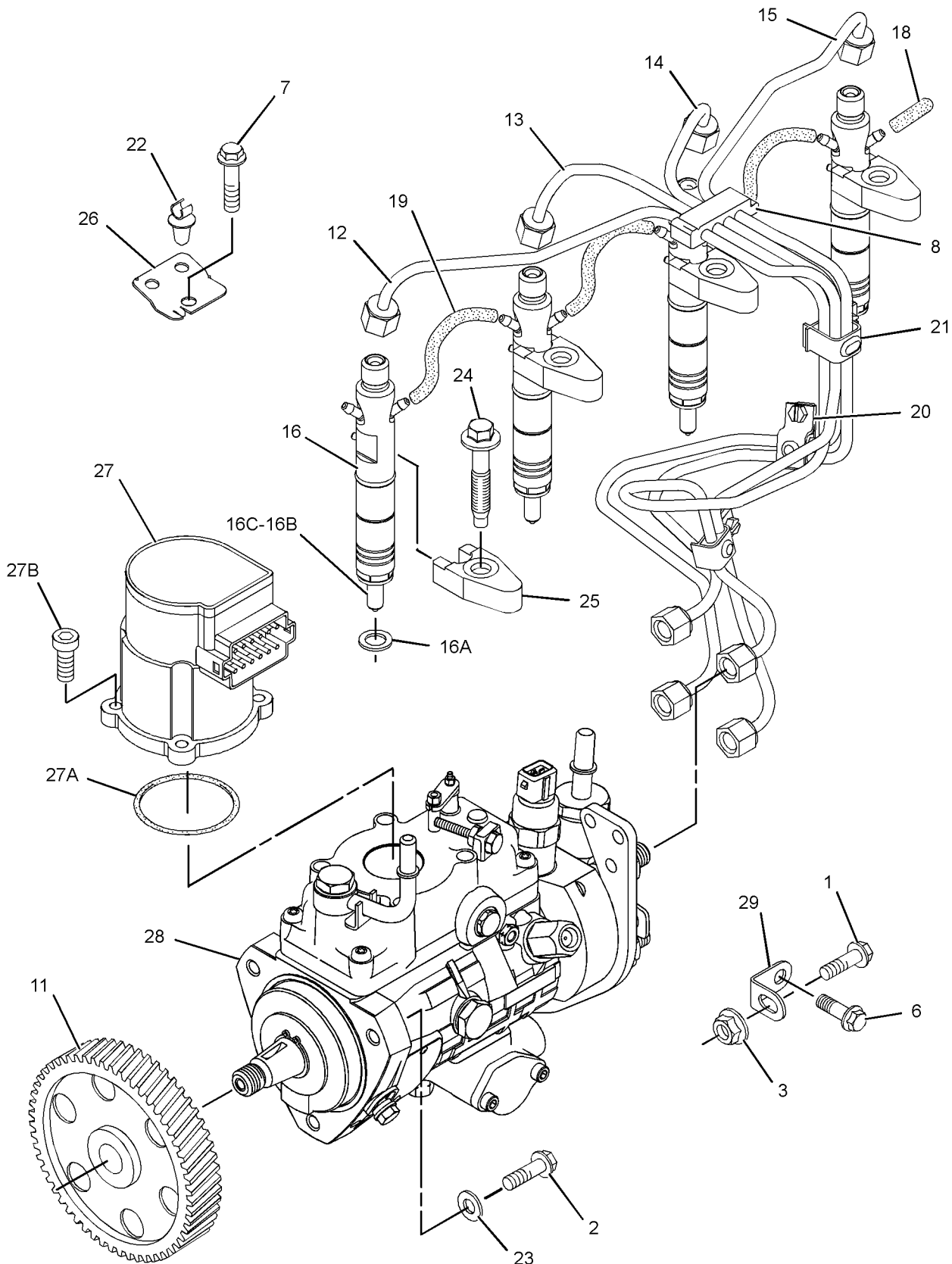
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0217	1	BOLT (M8X1.25X20-MM)						
M	2	1	6I-0260	3	BOLT (M8X1.25X25-MM)						
	3	1	6I-0291	1	NUT (M8X1.25-THD)						
	4	2	9F-2247	1	PLUG-PIPE						
	5	2	7M-7410	1	PLUG-PIPE						
M	6	1	100-4830	1	BOLT (M10X1.5X20-MM)						
M	7	1	124-3815	1	BOLT (M8X16X1.25-MM)						
	8	1	140-8714	1	CLIP						
	9	2	203-6797	1	SENSOR-SPEED (TIMING ADVANCE)						
	10	2	203-6798	1	ADAPTER						
	11	1	230-8989	1	GEAR-FUEL PUMP						
	12	1	230-8995	1	TUBE AS (CYL NO.1)						
	13	1	230-8996	1	TUBE AS (CYL NO.2)						
	14	1	230-8997	1	TUBE AS (CYL NO.3)						
	15	1	230-8998	1	TUBE AS (CYL NO.4)						
	16	1	230-8999	4	INJECTOR AS-FUEL						
					(EACH INCLUDES)						
	16A	1	140-8718	1	WASHER						
	16B	1	232-2724	1	NOZZLE						
	16C	1	275-1038	1	SEAL-O-RING						
	17	2	232-1323	1	PLUG-CUP						
	18	1	232-1328	1	CAP						
	19	1	232-1794	3	HOSE						
	20	1	232-2725	2	CLIP						
	21	1	232-2726	1	CLIP						
	22	1	232-3126	1	CLIP						
	23	1	232-3149	3	WASHER (8.35X16.85X1.55-MM THK)						
	24	1	232-3274	4	BOLT (M8X1.25X48.1-MM)						
	25	1	238-8671	4	CLAMP-INJECTOR						
	26	1	240-5571	1	BRACKET						
	27	1	272-2223	1	ACTUATOR GP-GOVERNOR						
	27A	1	241-4288	4	SEAL-O-RING						
	27B	1	241-4291	1	SCREW						
Y	28	1	286-2364	1	PUMP GP-FUEL INJECTION						202
	29	1	232-3157	1	BRACKET						

M-METRIC PART
Y-SEPARATE ILLUSTRATION

FUEL SYSTEM

286-2365 PUMP GP-FUEL INJECTION (contd.)

i02510272



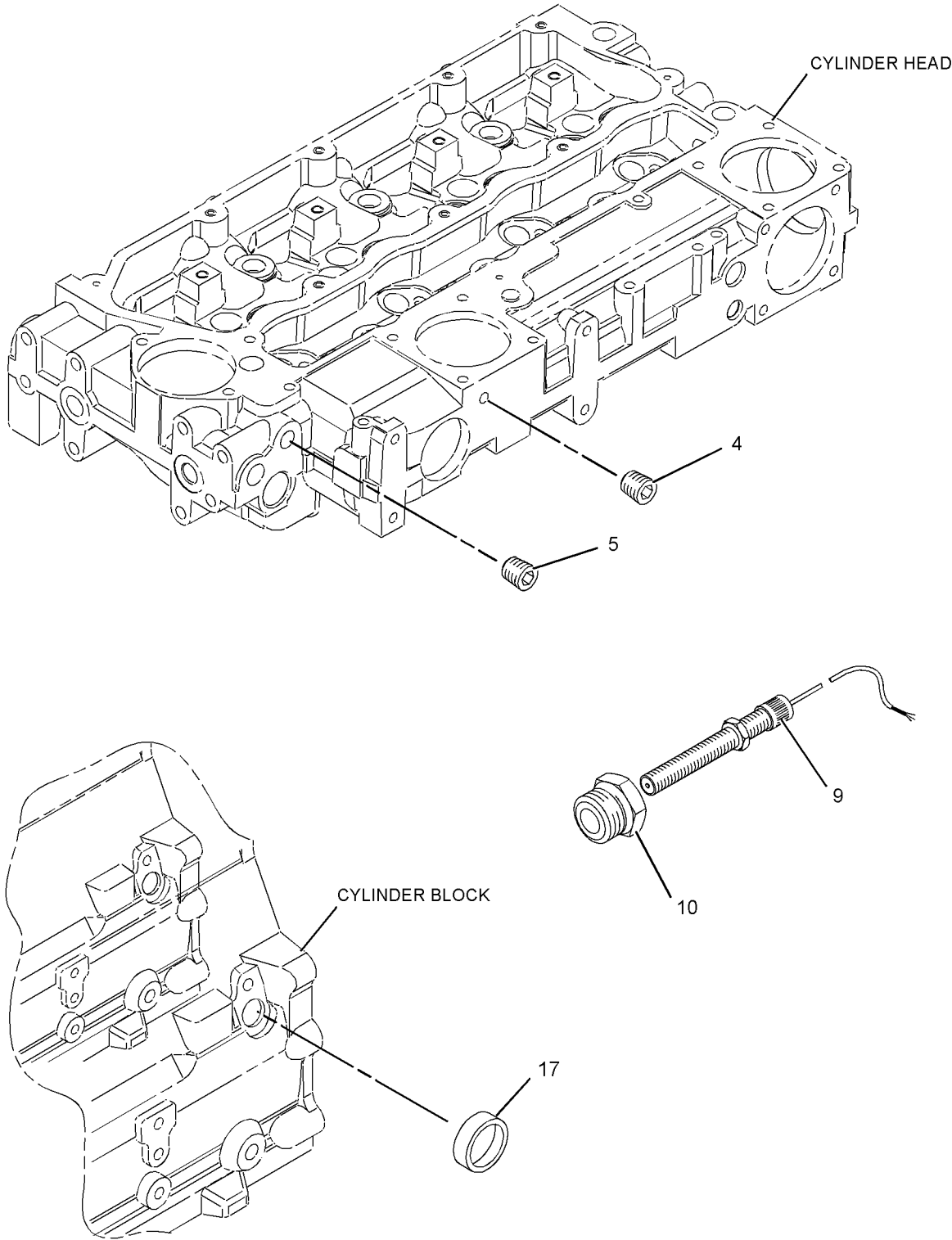
GRAPHIC #1

g01259890

FUEL SYSTEM

286-2365 PUMP GP-FUEL INJECTION (contd.)

i02510272



GRAPHIC #2

<END>

g01259891

FUEL SYSTEM

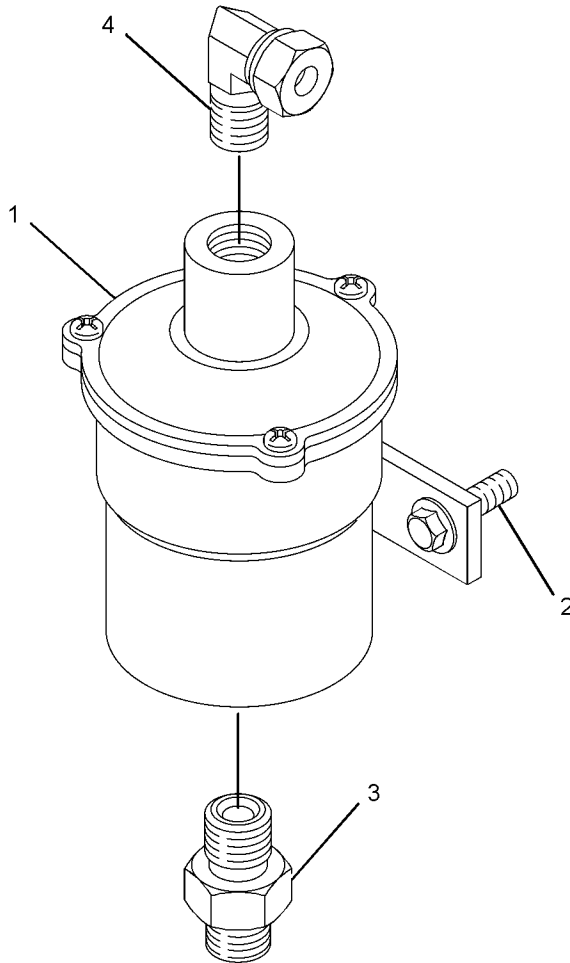
288-6607 PUMP GP-FUEL PRIMING

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1258

i02529753

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	288-6605	1	PUMP - FUEL						
	2	1	100-4838	2	BOLT (M6X20-MM)						
	3	1	210-6852	1	ADAPTER						
	4	1	288-6606	1	ELBOW						



GRAPHIC #1

<END>

g01270027

FUEL SYSTEM

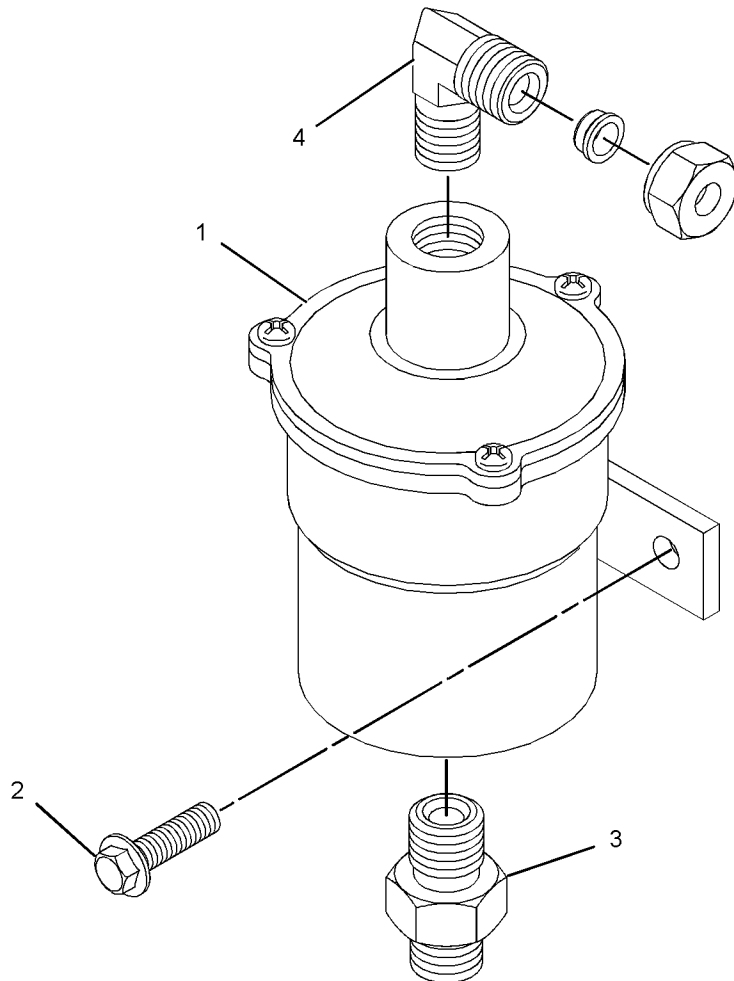
288-6608 PUMP GP-FUEL PRIMING

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1258

i02539337

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	288-6609	1	PUMP - FUEL						
	2	1	100-4838	2	BOLT (M6X20-MM)						
	3	1	210-6852	1	ADAPTER						
	4	1	288-6606	1	ELBOW						



GRAPHIC #1

<END>

g01273797

FUEL SYSTEM

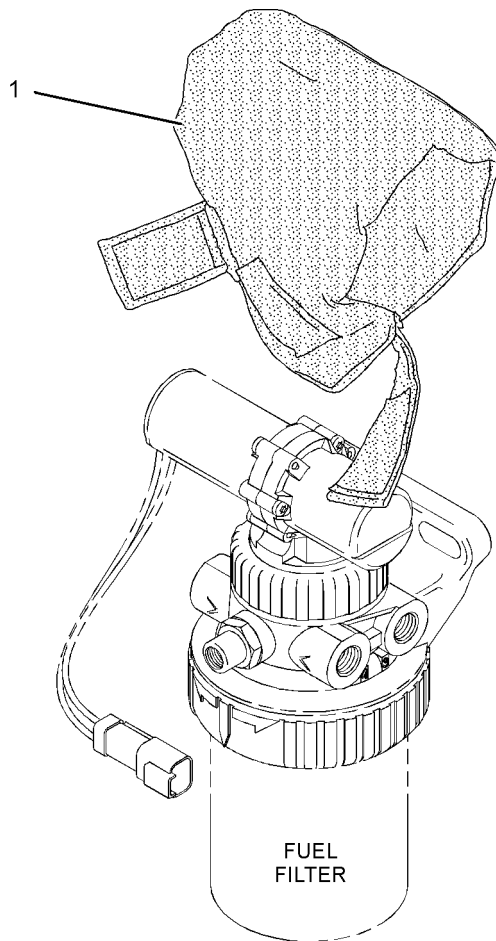
270-0357 SHIELD GP-FUEL LINES

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1067, 1252

i02301704

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	270-0358	1	SHIELD AS						



GRAPHIC #1

<END>

g01153532

FUEL SYSTEM

270-0367 SHIELD GP-FUEL LINES

S/N: L1K1-UP; S1M1-UP

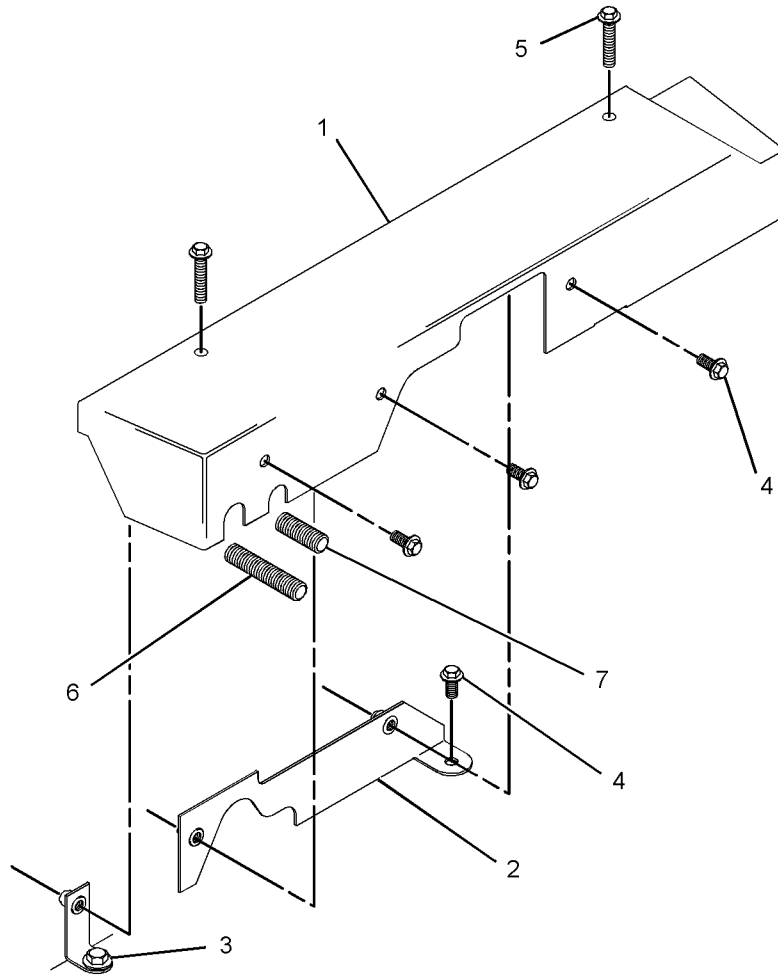
FOR USE WITH SHEATHED FUEL LINES ONLY
AN ATTACHMENT

SMCS-1067, 1252

i02291957

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	270-0379	1	COVER AS						
	2	1	270-0380	1	BRACKET						
	3	1	270-0381	1	BRACKET						
	4	1	6I-0631	4	BOLT (M6X1X12-MM)						
	5	1	112-7704	2	BOLT						
E	6	1	197-3800		LOOM (5-CM)						
E	7	1	197-3800		LOOM (3-CM)						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01148340

ELECTRICAL AND STARTING SYSTEM

263-7657 ALTERNATOR GP-CHARGING

S/N: L1K1-UP; S1M1-UP

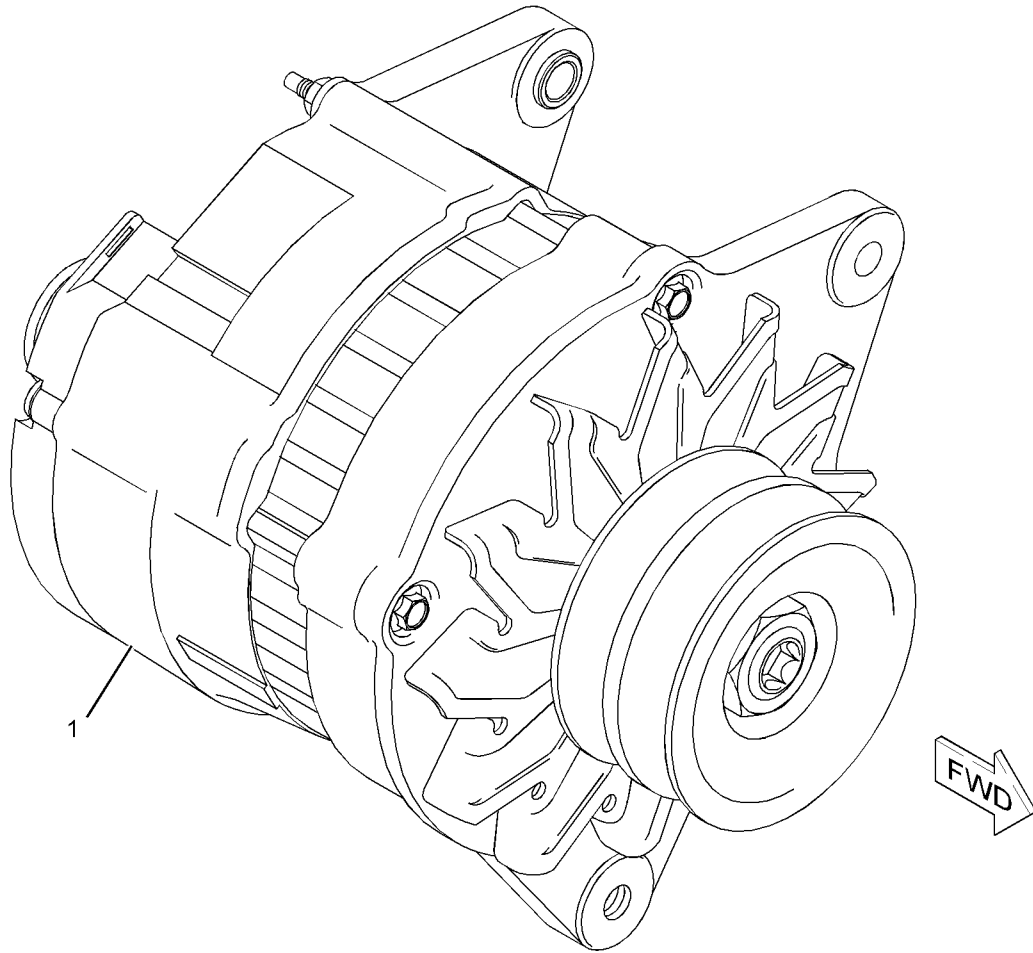
12-VOLT

AN ATTACHMENT

SMCS-1405

i02288458

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-7656	1	ALTERNATOR						



GRAPHIC #1

<END>

g01149239

ELECTRICAL AND STARTING SYSTEM

263-7673 ALTERNATOR GP-CHARGING

S/N: L1K1-UP; S1M1-UP

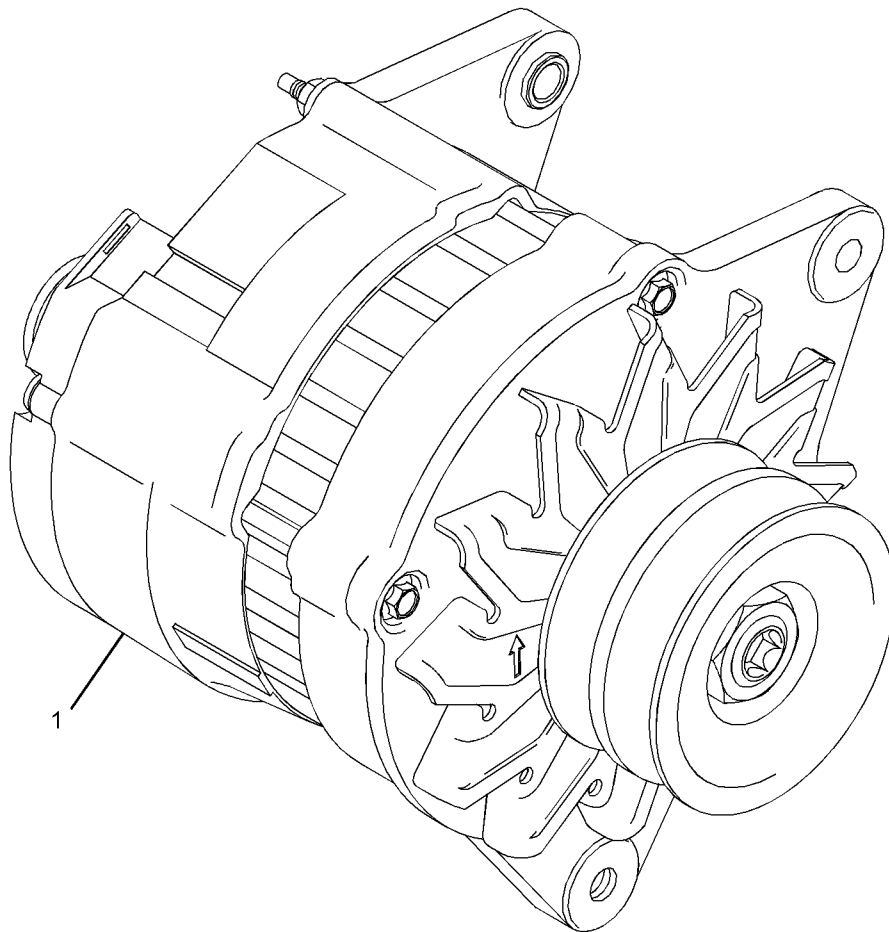
24-VOLT

AN ATTACHMENT

SMCS-1405

i02288462

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-7672	1	ALTERNATOR (24-VOLT)						



GRAPHIC #1

<END>

g01146742

ELECTRICAL AND STARTING SYSTEM

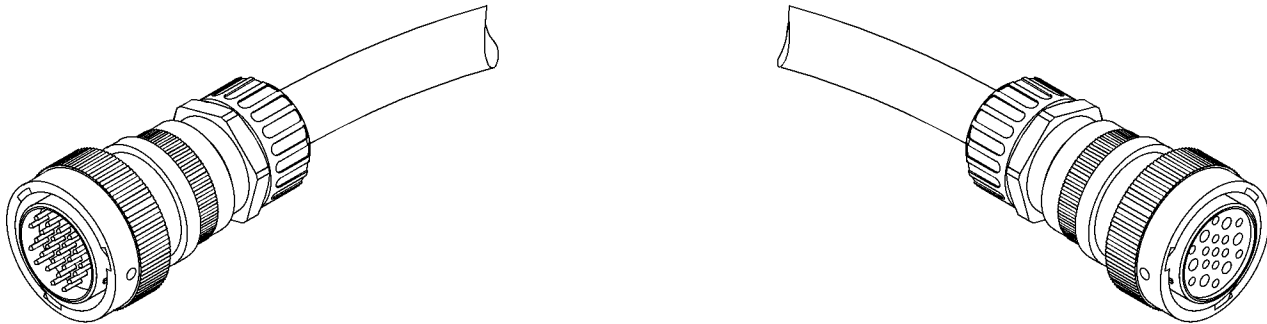
288-6115 CABLE GP

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4480

i02529739

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>

g01270047

ELECTRICAL AND STARTING SYSTEM

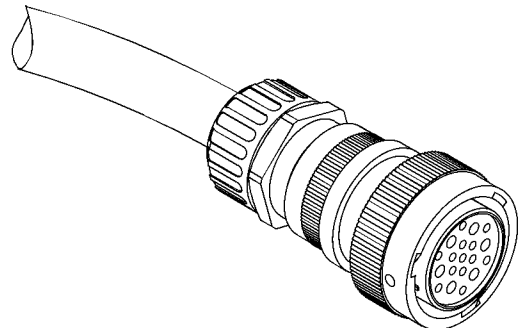
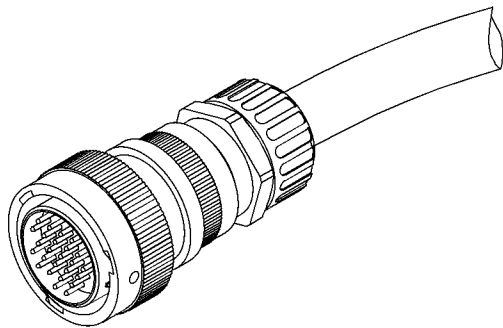
288-6120 CABLE GP

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4480

i02529747

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>

g01270048

ELECTRICAL AND STARTING SYSTEM

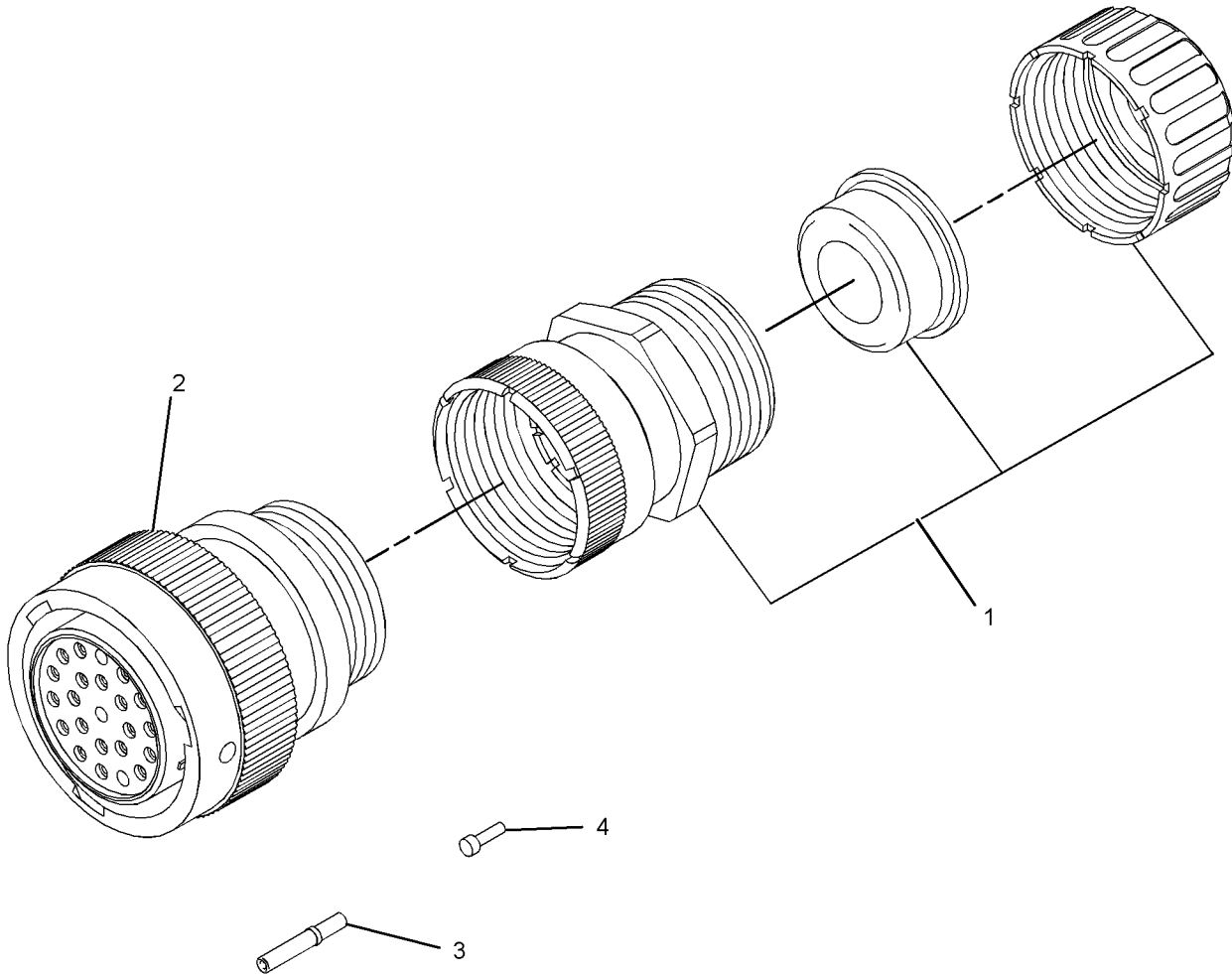
273-0611 CONNECTION GP-ELECTRICAL

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1408

i02421635

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-0612	1	CONNECTOR						
	2	1	271-3537	1	CONNECTOR AS						
	3	1	186-3735	23	PIN-CONNECTOR (16-GA TO 18-GA)						
	4	1	8T-8737	10	PLUG-SEAL						



GRAPHIC #1

<END>

g01160392

ELECTRICAL AND STARTING SYSTEM

289-3725 CONNECTION GP-ELECTRICAL

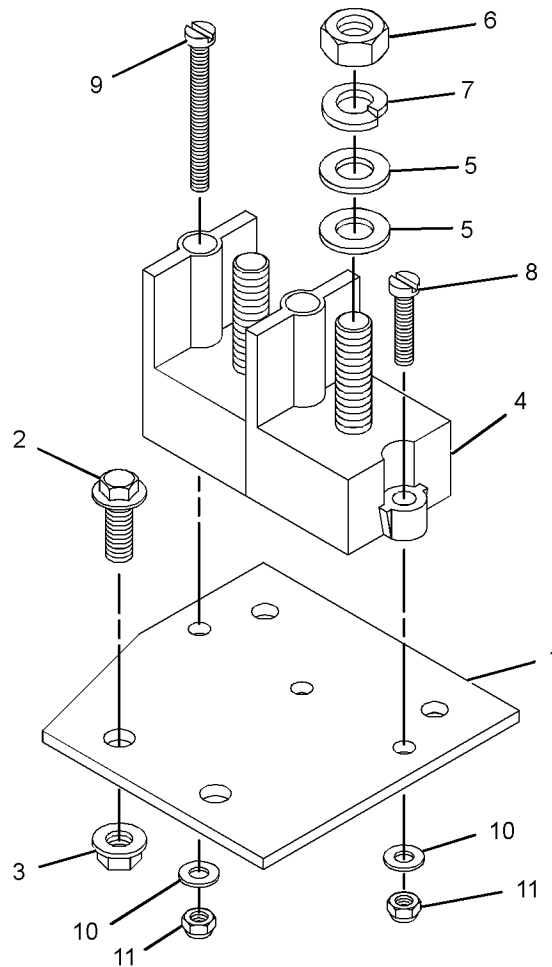
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS - 1408

i02539366

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-2396	1	BRACKET						
	2	1	106-8916	2	BOLT (M6X16-MM)						
	3	1	6I-0918	2	NUT (M6-THD)						
	4	1	289-3726	2	BLOCK-TERMINAL						
	5	1	193-5186	4	WASHER (M8)						
	6	1	196-7699	4	NUT (M8X6.5-MM)						
	7	1	196-0344	2	WASHER-LOCK						
	8	1	260-6702	1	SCREW-PAN HEAD (M4X0.7X20-MM)						
M	9	1	095-0733	2	SCREW-MACHINE (M4X0.7X40-MM)						
	10	1	196-0347	3	WASHER (4.3X8.7X0.8-MM THK)						
M	11	1	178-9983	3	LOCKNUT (M4X0.7-THD)						

M-METRIC PART



GRAPHIC #1

<END>

g01273858

ELECTRICAL AND STARTING SYSTEM

281-0571 CONTACTOR GP

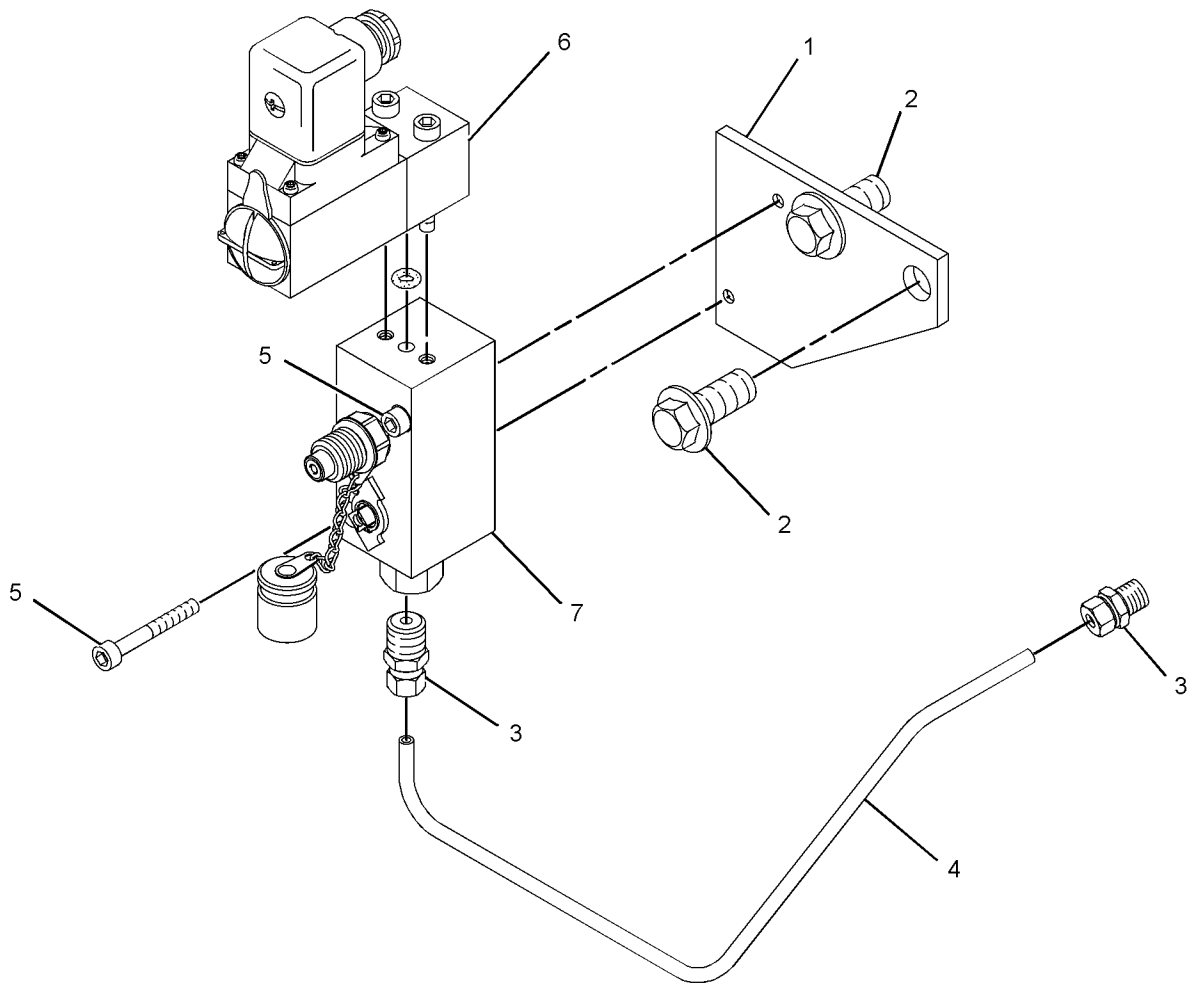
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1400, 7400

i02546202

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	281-0573	1	BRACKET						
	2	1	102-9941	2	BOLT (M12X1.75X25-MM)						
	3	1	281-0574	2	ADAPTER						
	4	1	281-0575	1	TUBE						
M	5	1	8T-0266	2	BOLT-SOCKET HEAD (M5X0.8X40-MM)						
	6	1	281-0572	1	TRANSMITTER-PRESSURE						
	7	1	264-0564	1	CONNECTION GP-TEST						

M-METRIC PART



GRAPHIC #1

<END>

g01284943

ELECTRICAL AND STARTING SYSTEM

281-1274 CONTACTOR GP

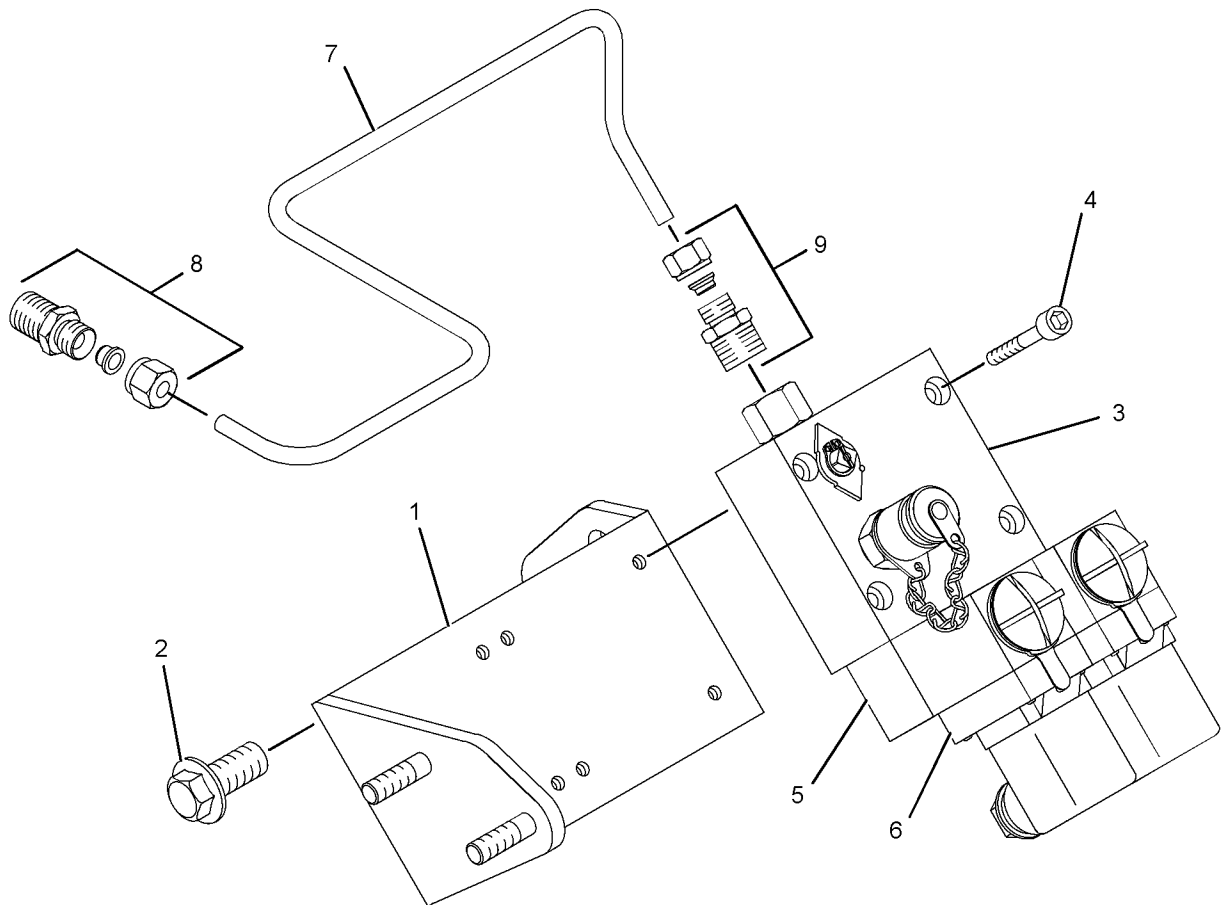
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1400, 7400

i02623642

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6	
	1	1	281-1279	1	BRACKET						
	2	1	102-9941	2	BOLT (M12X1.75X25-MM)						
	3	1	264-1423	1	CONNECTION GP-TEST						
M	4	1	8T-3283	4	BOLT-SOCKET HEAD (M5X0.8X45-MM)						
	5	1	281-1275	1	TRANSMITTER (PRESSURE)						
	6	1	281-1276	1	SWITCH-PRESSURE (ENGINE)						
	7	1	281-1277	1	TUBE						
	8	1	281-1278	1	ADAPTER						
	9	1	281-0574	1	ADAPTER						

M-METRIC PART



GRAPHIC #1

<END>

g01260094

ELECTRICAL AND STARTING SYSTEM

287-7444 CONTACTOR GP-OIL PRESSURE

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-7400, 7421

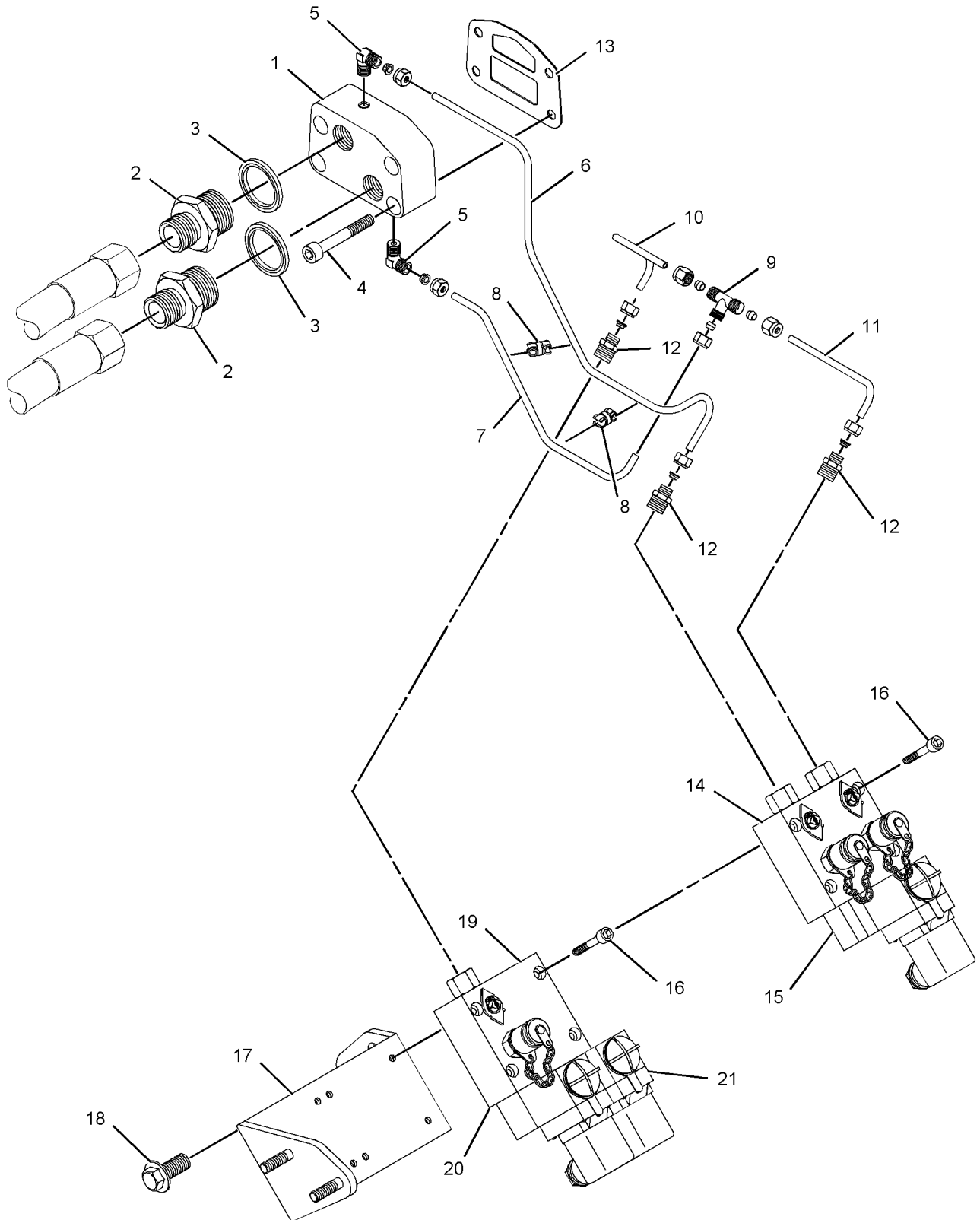
i02623643

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME	SEE PAGE
					1 2 3 4 5 6 (PRODUCT LEVEL)	
	1	1	281-1302	1	PLATE	
	2	1	287-7440	2	ADAPTER	
	3	1	6V-0407	2	SEAL-BONDED	
	4	1	105-2740	4	BOLT	
	5	1	287-7441	2	ADAPTER	
	6	1	281-1303	1	TUBE	
	7	1	281-1304	1	TUBE	
	8	1	140-7473	2	CLIP	
	9	1	287-7442	1	ADAPTER	
	10	1	281-1305	1	TUBE	
	11	1	287-7443	1	TUBE	
	12	1	281-0574	3	ADAPTER	
	13	1	281-1306	1	GASKET	
	14	1	281-1300	1	VALVE	
	15	1	281-1301	1	SWITCH-PRESSURE (DIFFERENTIAL)	
M	16	1	8T-3283	8	BOLT-SOCKET HEAD (M5X0.8X45-MM)	
	17	1	281-1279	1	BRACKET	
	18	1	102-9941	2	BOLT (M12X1.75X25-MM)	
	19	1	264-1423	1	CONNECTION GP-TEST	
	20	1	281-1275	1	TRANSMITTER	
	21	1	281-1276	1	SWITCH-PRESSURE (ENGINE OIL)	
M-METRIC PART						

ELECTRICAL AND STARTING SYSTEM

287-7444 CONTACTOR GP-OIL PRESSURE (contd.)

i02623643



GRAPHIC #1

<END>

g01271407

ELECTRICAL AND STARTING SYSTEM

288-3644 CONTACTOR GP-TEMPERATURE

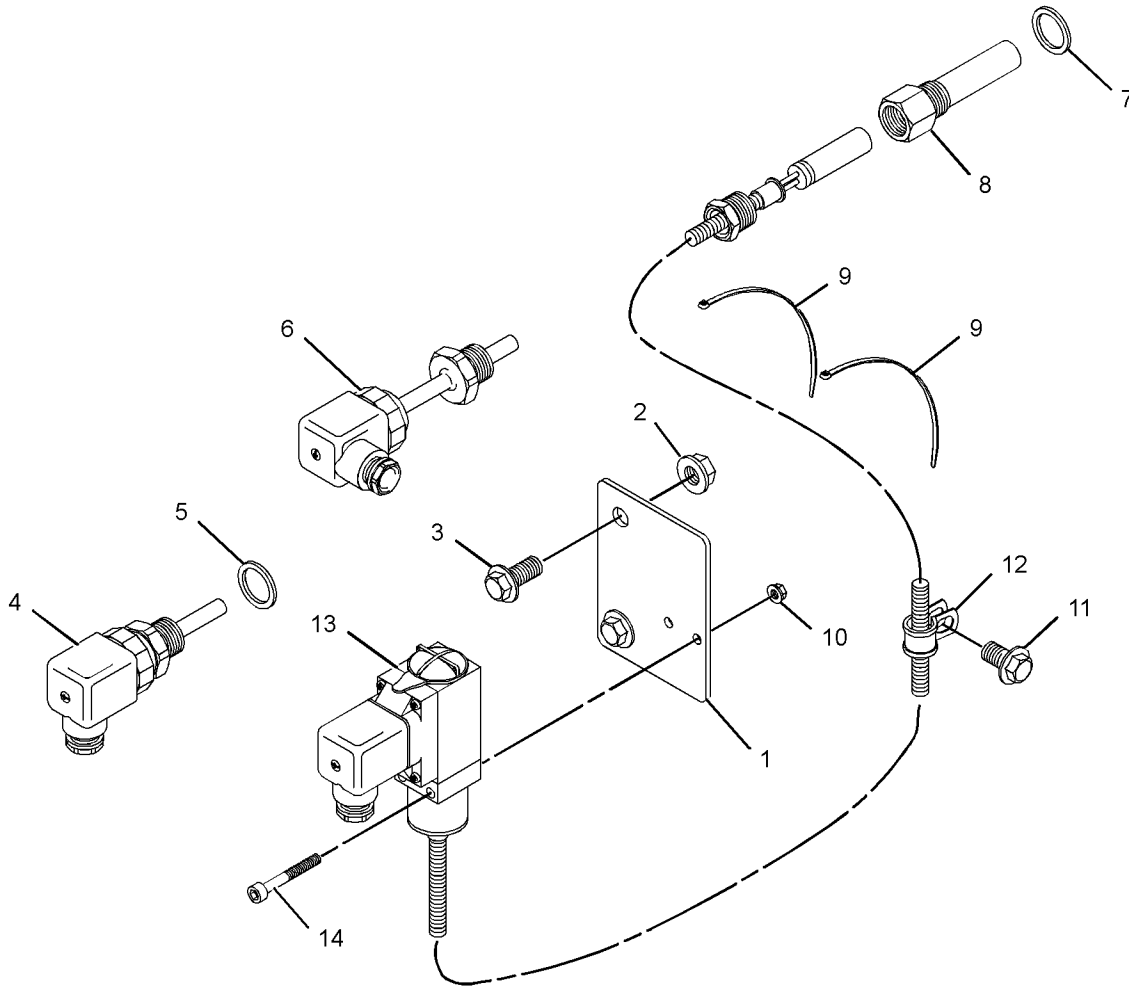
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS - 1906

i02529614

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	288-3634	1	PLATE-MOUNTING						
	2	1	6I-0594	2	NUT (M10X1.15-THD)						
M	3	1	100-4830	2	BOLT (M10X1.5X20-MM)						
	4	1	288-3636	1	SENSOR-TEMPERATURE						
	5	1	288-3637	1	WASHER						
	6	1	288-3639	1	SENSOR-TEMPERATURE						
	7	1	236-6056	1	WASHER (M18)						
	8	1	288-3641	1	THERMOWELL						
	9	1	195-4615	2	STRAP						
	10	1	199-1187	2	NUT (M5)						
	11	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	12	1	288-3642	1	CLIP						
	13	1	288-3643	1	SWITCH-TEMPERATURE						
M	14	1	8T-3283	2	BOLT-SOCKET HEAD (M5X0.8X45-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01274315

ELECTRICAL AND STARTING SYSTEM

232-6661 GLOW PLUG GP

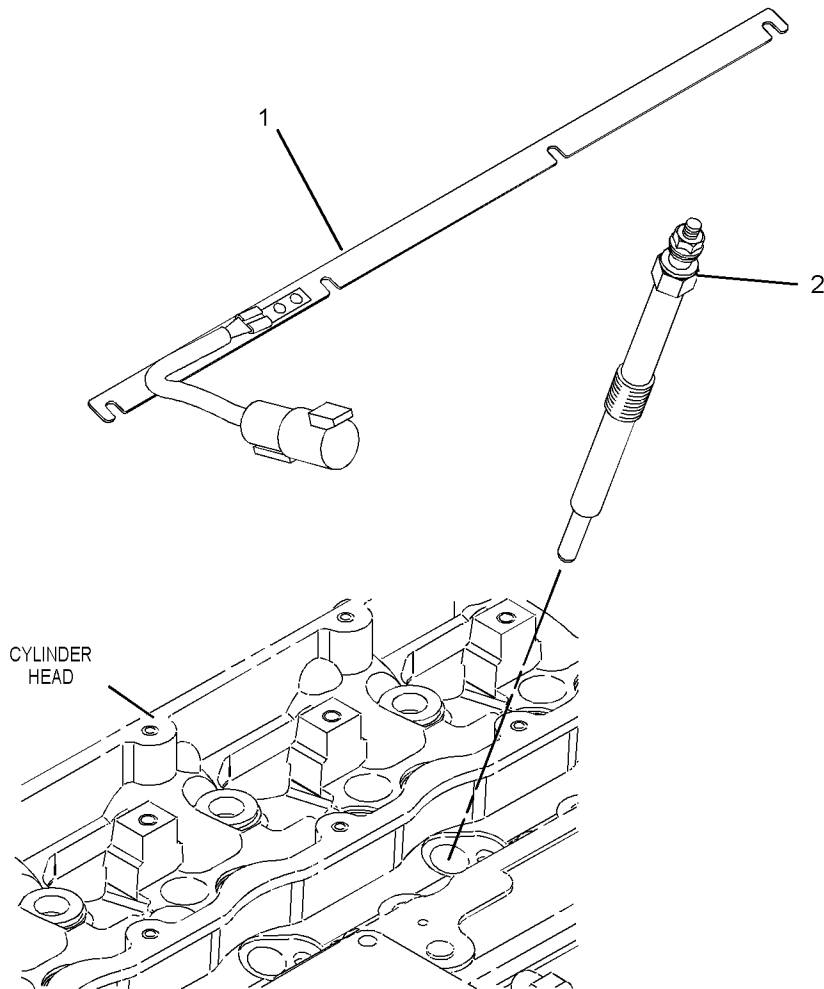
S/N: D1K1-UP; J1Z1-UP

PART OF 273-1454 ENGINE AR-PRIMARY
AN ATTACHMENT

SMCS-1412

i02527255

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	286-4880	1	BAR						
	2	1	232-6662	4	GLOW PLUG (12-VOLT)						



GRAPHIC #1

<END>

g01232967

ELECTRICAL AND STARTING SYSTEM

272-0499 GLOW PLUG GP

S/N: L1K1-UP; S1M1-UP

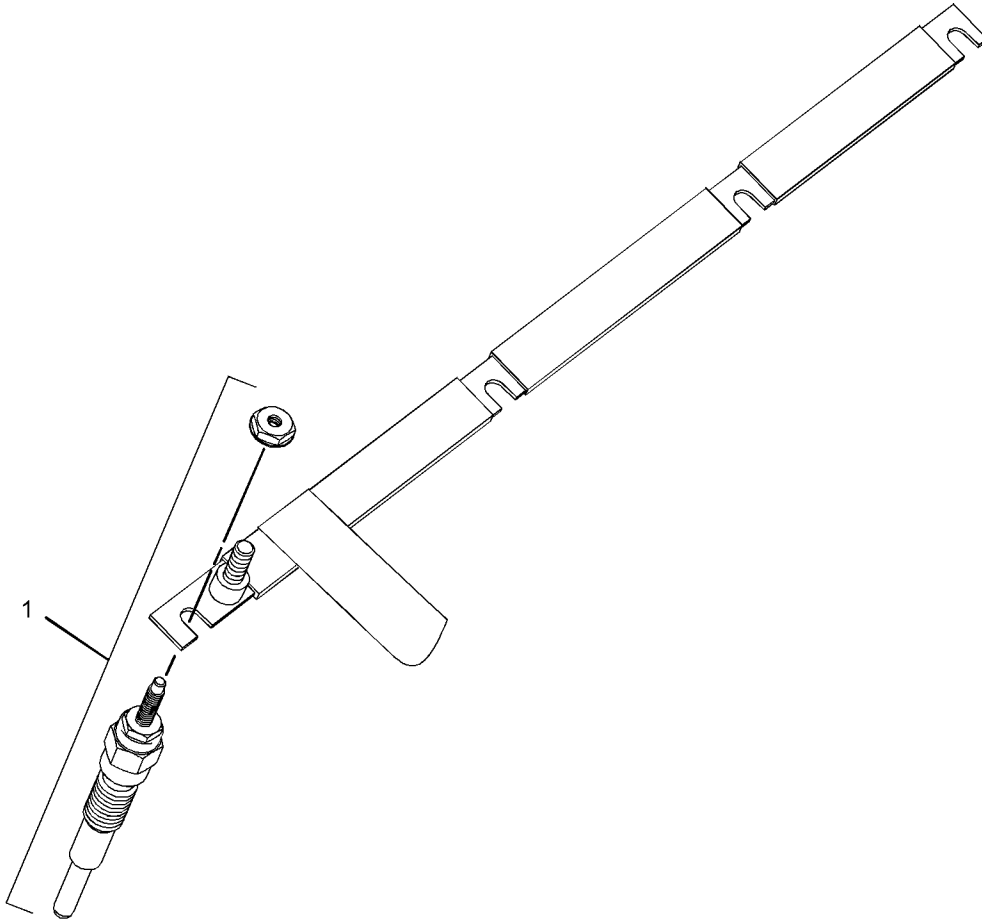
24-VOLT

AN ATTACHMENT

SMCS-1412

i02306185

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	226-8770	4	GLOW PLUG						



GRAPHIC #1

<END>

g01157298

ELECTRICAL AND STARTING SYSTEM

269-5212 HARNESS GP

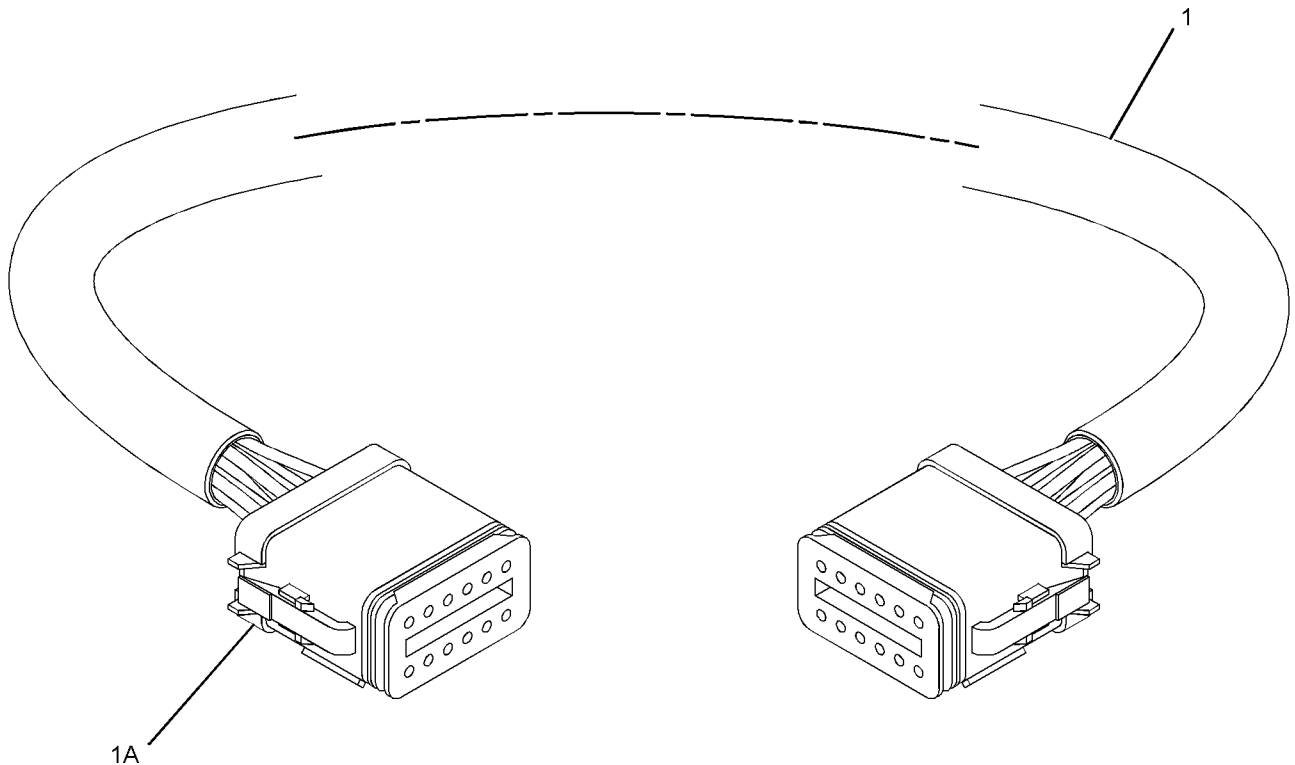
S/N: L1K1-UP; S1M1-UP
25-FT

FOR USE WITH 12-VOLT OR 24-VOLT REMOTE STOP/START PANELS OR REMOTE
START/STOP PANELS WITH INSTRUMENTS. CANNOT BE USED WITH REMOTE STANDARD
PANELS
AN ATTACHMENT

SMCS-1408

i02290414

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-5199	1	HARNESS AS-WIRE						
	1A	1	155-2255	2	KIT-CONNECTING PLUG (12-PIN)						
(EACH INCLUDES PLUG AS AND WEDGE)											



GRAPHIC #1

<END>

g01148002

ELECTRICAL AND STARTING SYSTEM

269-5213 HARNESS GP

S/N: L1K1-UP; S1M1-UP

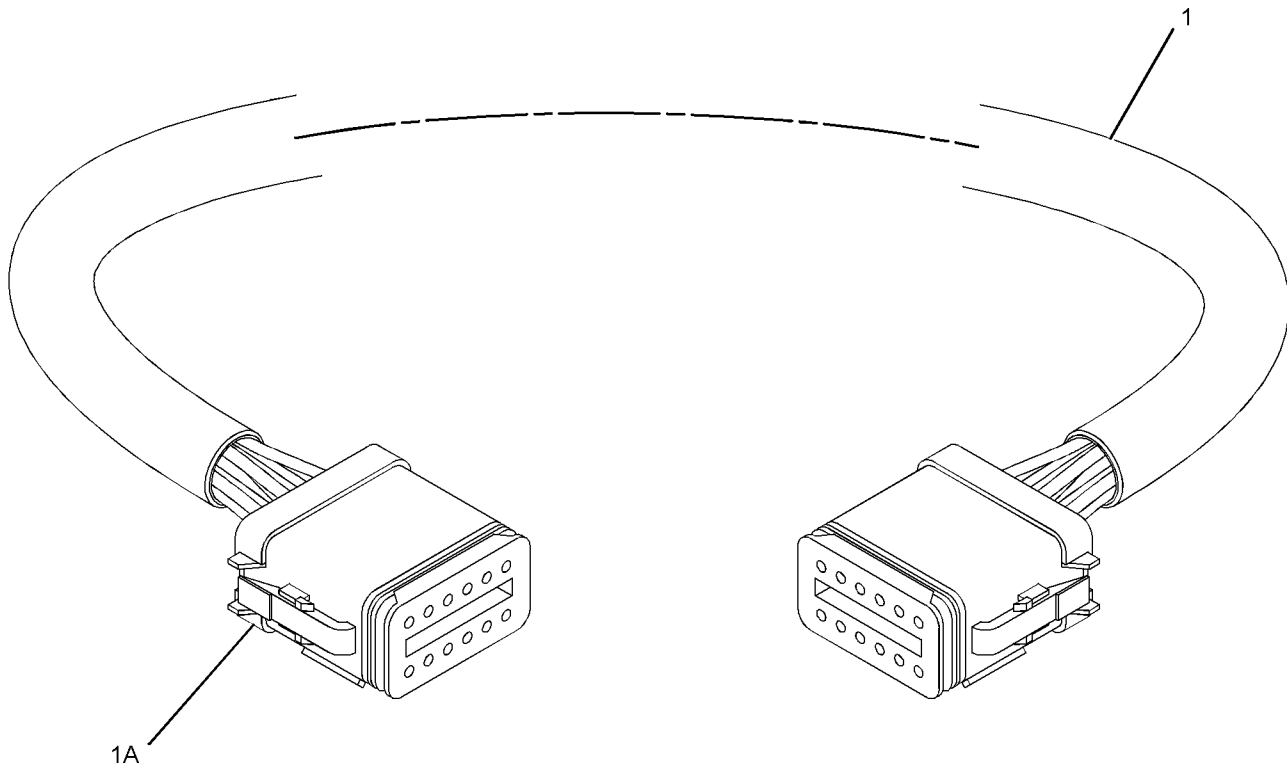
45-FT

FOR USE WITH 12-VOLT RO 24-VOLT REMOTE STOP/START PANELS OR REMOTE
START/STOP PANELS WITH INSTRUMENTS. CANNOT BE USED WITH REMOTE STANDARD
PANELS
AN ATTACHMENT

SMCS-1408

i02290471

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-5200	1	HARNESS AS-WIRING						
	1A	1	155-2255	2	KIT-CONNECTING PLUG (12-PIN)						
(EACH INCLUDES PLUG AS AND WEDGE)											



GRAPHIC #1

<END>

g01148002

ELECTRICAL AND STARTING SYSTEM

269-5214 HARNESS GP

S/N: L1K1-UP; S1M1-UP

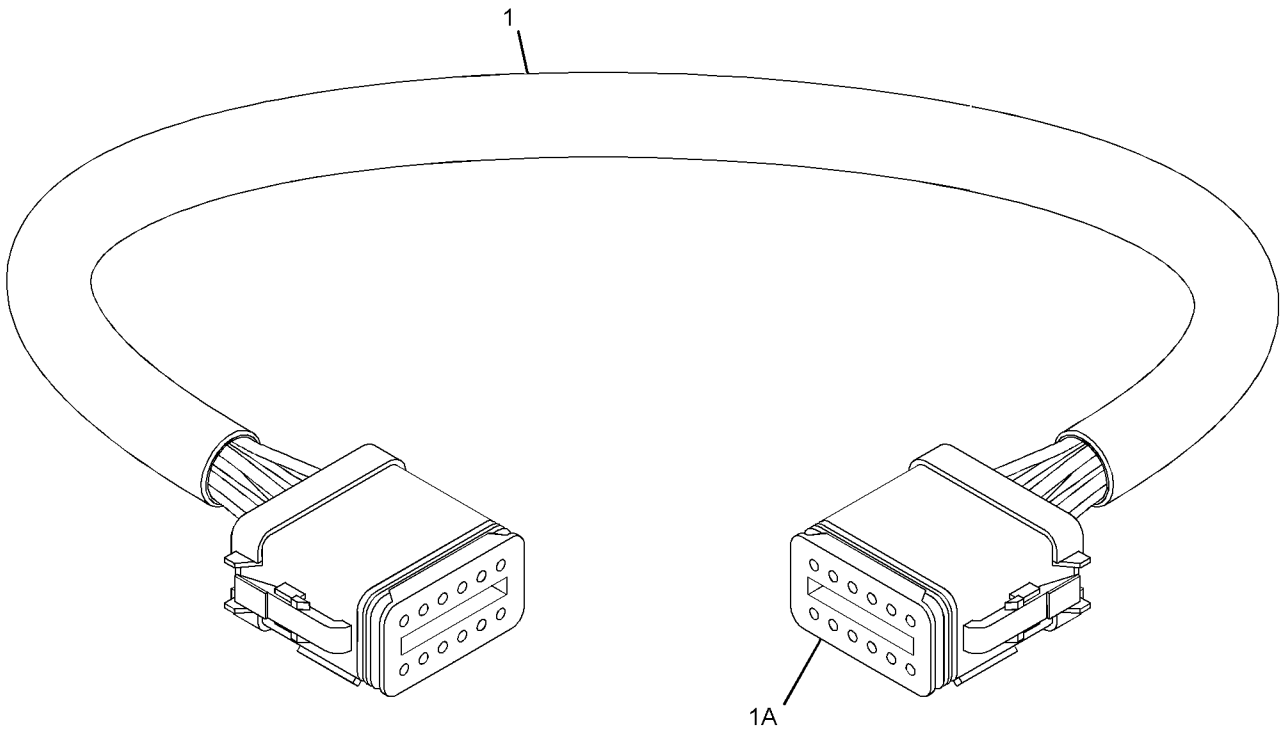
80-FT

FOR USE WITH 12-VOLT OR 24-VOLT REMOTE STOP/START PANELS OR REMOTE
START/STOP PANELS WITH INSTRUMENTS. CANNOT BE USED WITH REMOTE STANDARD
PANELS
AN ATTACHMENT

SMCS-1408

i02290521

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-5202	1	HARNESS AS-WIRING						
	1A	1	155-2255	2	KIT-CONNECTING PLUG (12-PIN) (INCLUDES PLUG AS AND WEDGE)						



GRAPHIC #1

<END>

g01147729

ELECTRICAL AND STARTING SYSTEM

271-3542 HARNESS GP

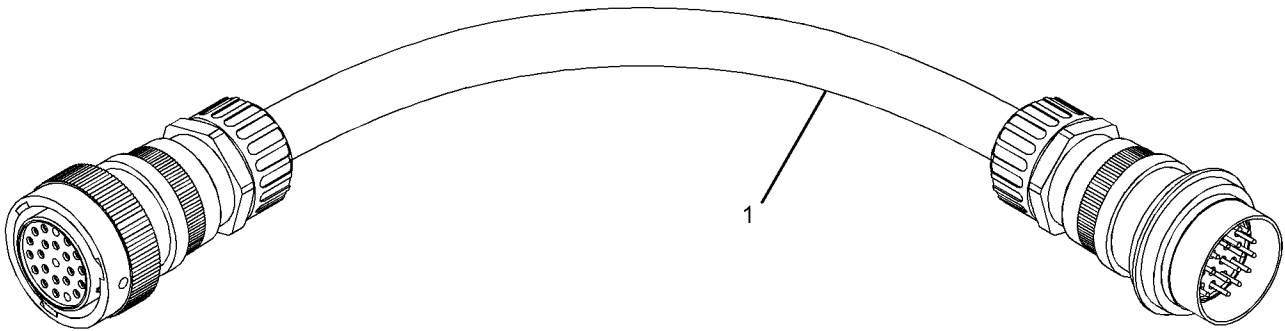
S/N: L1K1-UP; S1M1-UP

FOR USE WITH REMOTE MOUNTED, STANDARD GENSET CONTROL PANELS
AN ATTACHMENT

SMCS-1408

i02308839

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	271-3543	1	HARNESS AS-WIRE						



GRAPHIC #1

<END>

g01158939

ELECTRICAL AND STARTING SYSTEM

269-5211 HARNESS GP-WIRING

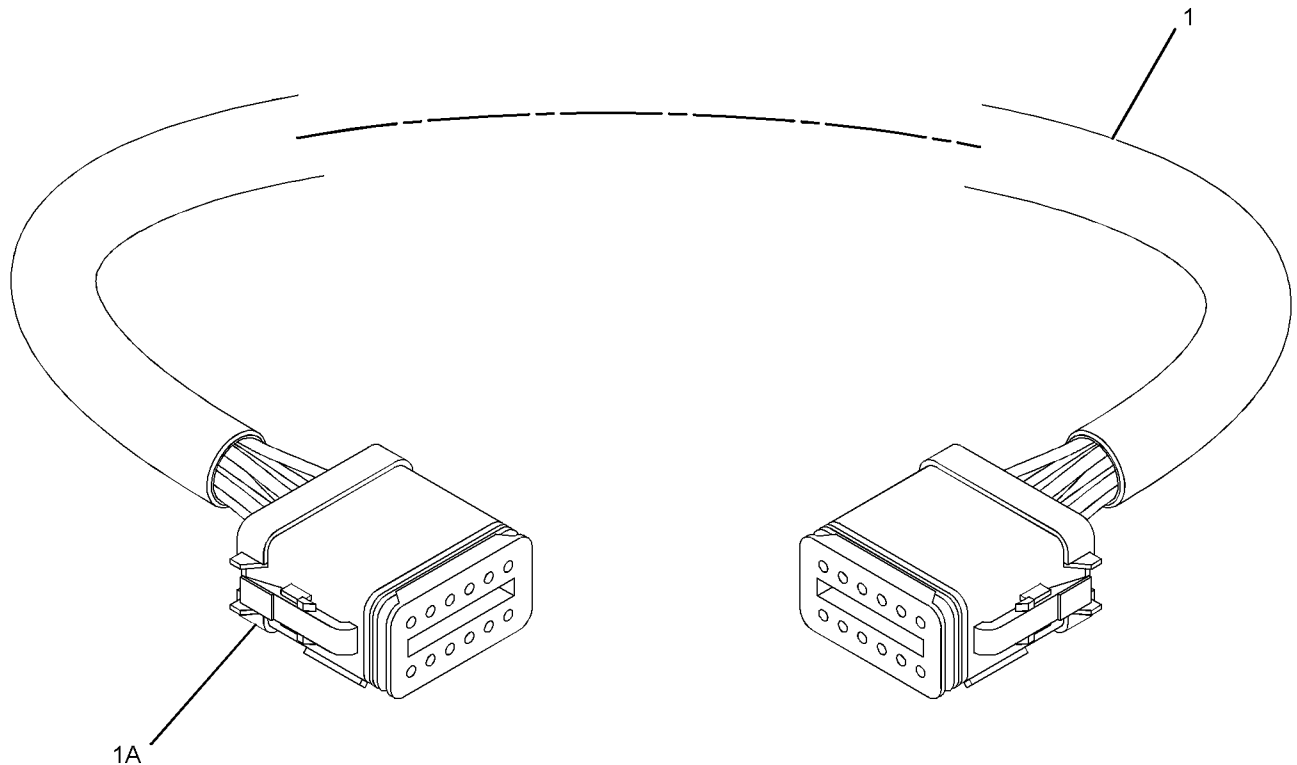
S/N: L1K1-UP; S1M1-UP
15-FT

FOR USE WITH 12-VOLT OR 24-VOLT REMOTE STOP/START PANELS OR REMOTE
START/STOP PANELS WITH INSTRUMENTS. CANNOT BE USED WITH REMOTE STANDARD
PANELS
AN ATTACHMENT

SMCS-1408

i02290405

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-5198	1	HARNESS AS-WIRING						
	1A	1	155-2255	2	KIT-CONNECTING PLUG (12-PIN)						
(EACH INCLUDES PLUG AS AND WEDGE)											



GRAPHIC #1

<END>

g01148002

ELECTRICAL AND STARTING SYSTEM

213-6970 HEATER GP-JACKET WATER

S/N: L1K1-UP; S1M1-UP

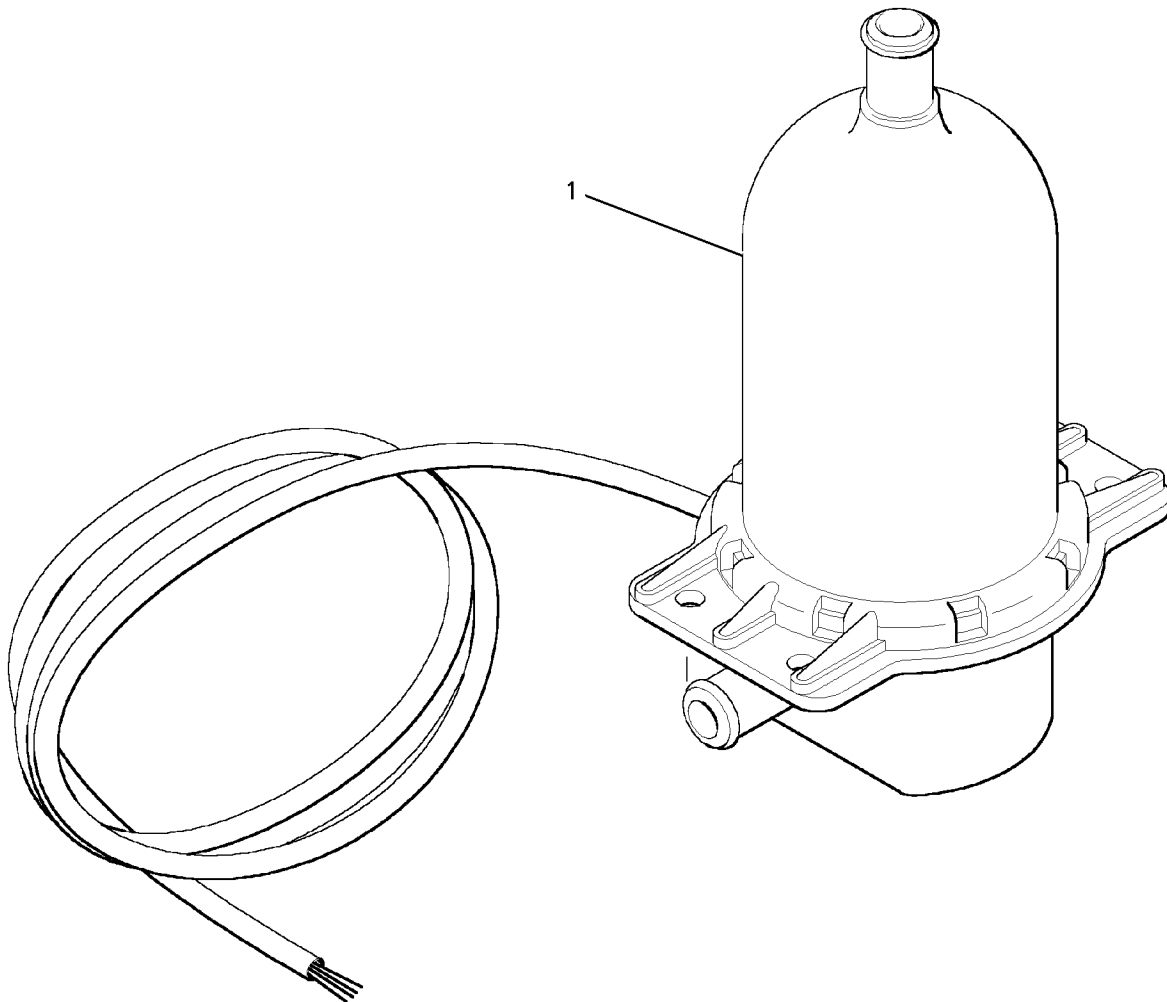
240-VOLT

AN ATTACHMENT

SMCS-1383

i02312951

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	213-8193	1	HEATER AS (WATER)						



GRAPHIC #1

<END>

g00856218

ELECTRICAL AND STARTING SYSTEM

213-6971 HEATER GP-JACKET WATER

S/N: L1K1-UP; S1M1-UP

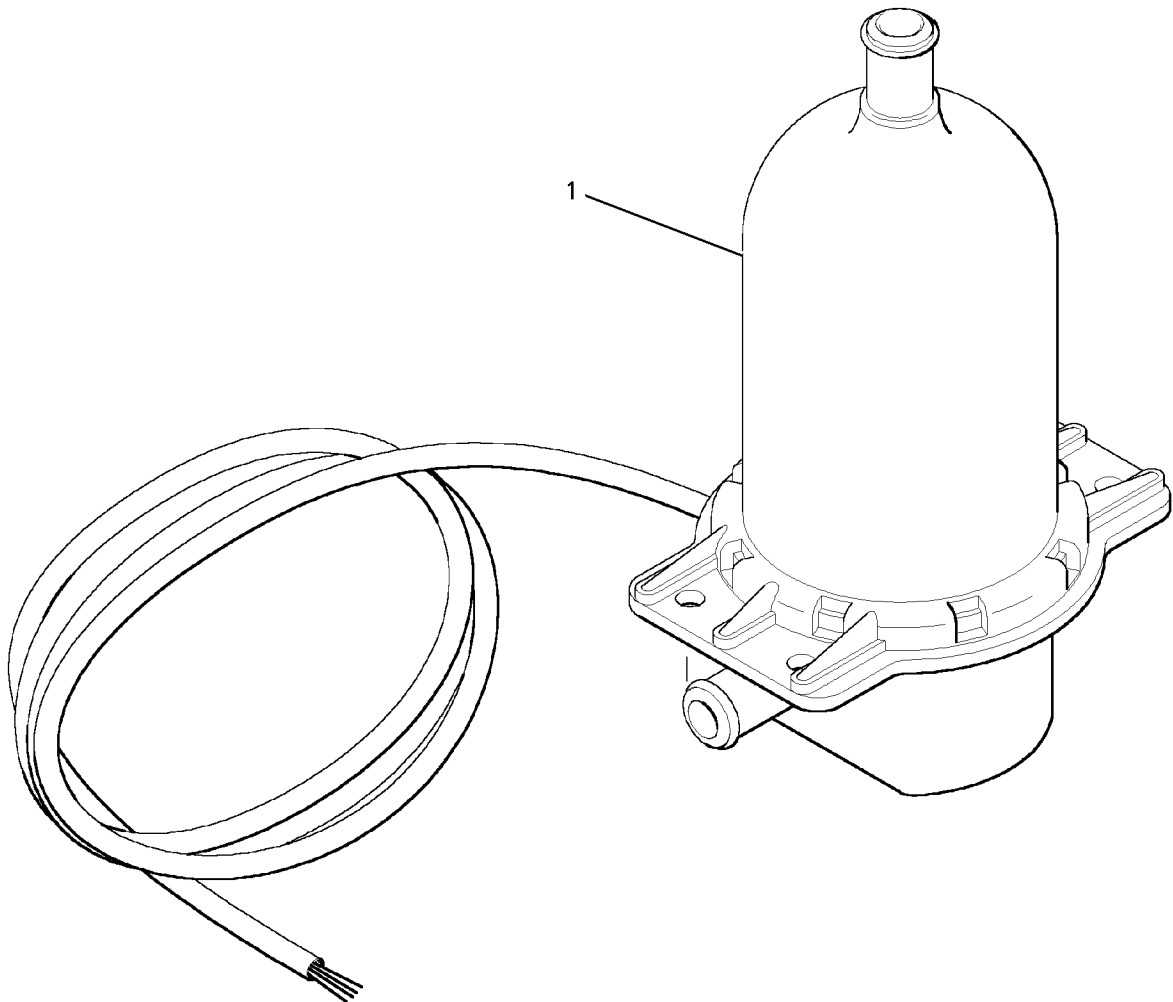
120-VOLT

AN ATTACHMENT

SMCS-1383

i02312952

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	213-8194	1	HEATER AS (WATER)						



GRAPHIC #1

<END>

g00856218

ELECTRICAL AND STARTING SYSTEM

274-3491 MOUNTING GP-SENSOR-FUEL ALARM

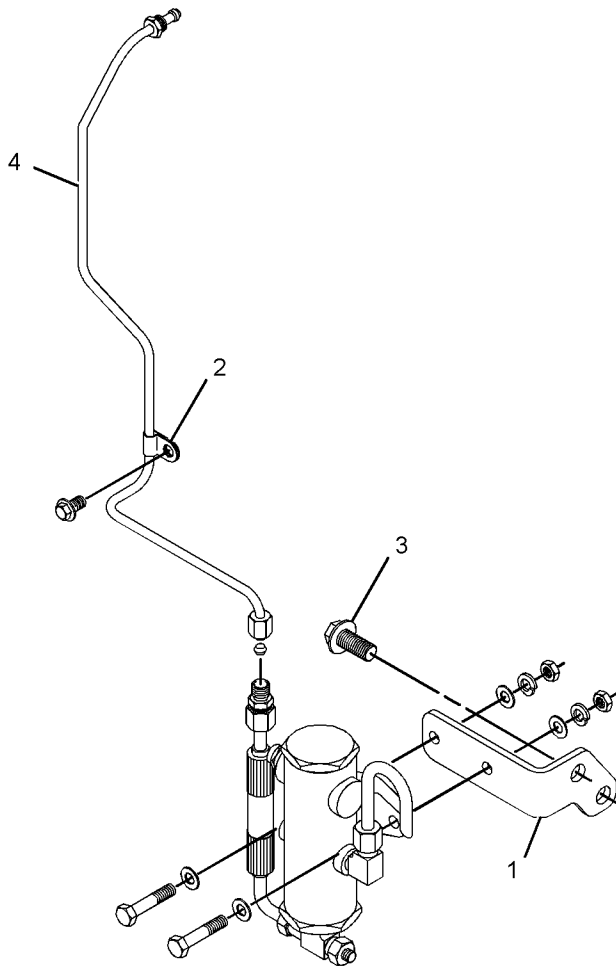
S/N: L1K1-UP; S1M1-UP

FOR USE WITH ENGINES FITTED WITH DOUBLE SKINNED INJECTION PIPES
AN ATTACHMENT

SMCS-1439

i02319549

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-3492	1	BRACKET						
	2	1	101-3927	1	CLIP						
	3	1	102-9941	2	BOLT (M12X1.75X25-MM)						
	4	1	274-3493	1	TUBE						



GRAPHIC #1

<END>

g01160624

ELECTRICAL AND STARTING SYSTEM

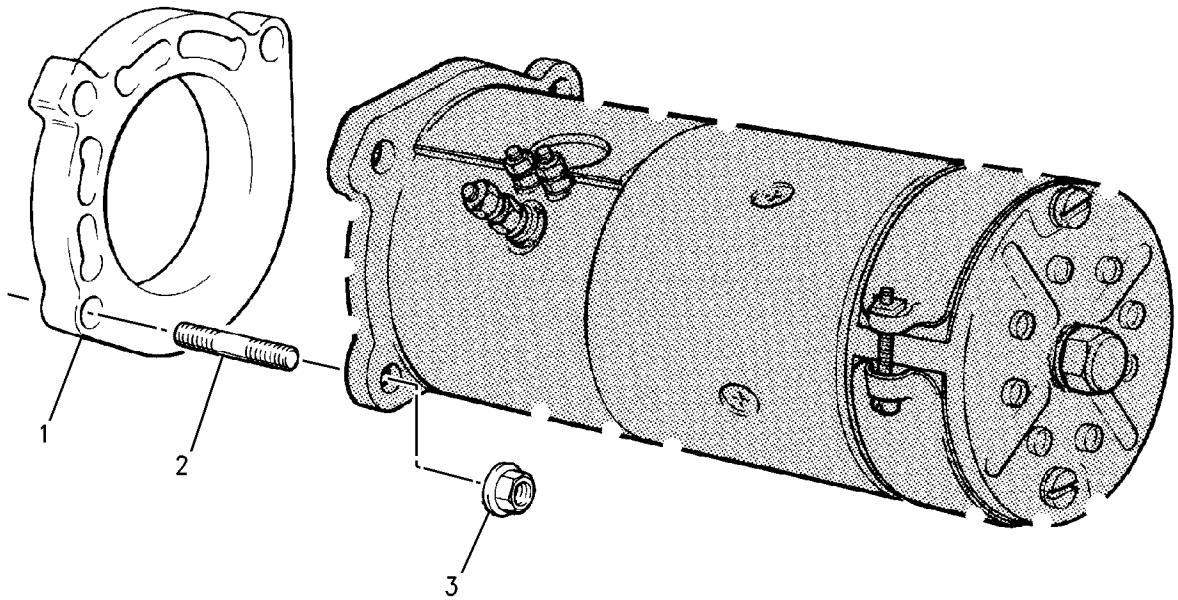
210-6434 MOUNTING GP-STARTING MOTOR

S/N: S1M1-UP
AN ATTACHMENT

SMCS-1452, 1453

i02312949

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	7W-4540	1	SPACER						
	2	1	101-5115	3	STUD (M10X40-MM)						
	3	1	6I-0594	3	NUT (M10X1.5-THD)						



GRAPHIC #1

<END>

g00850624

ELECTRICAL AND STARTING SYSTEM

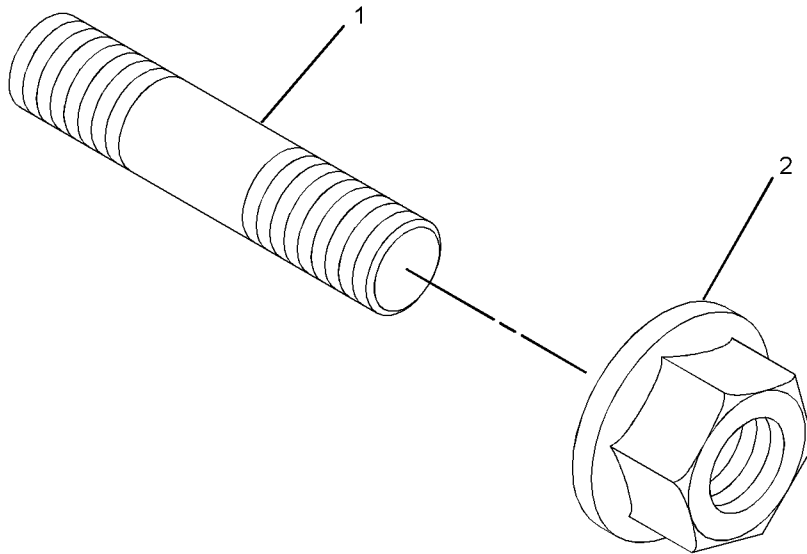
270-1911 MOUNTING GP-STARTING MOTOR

S/N: L1K1-UP; S1M1-UP
FOR USE WITH ELECTRIC STARTERS ONLY
AN ATTACHMENT

SMCS-1452, 1453

i02291099

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-0562	3	STUD						
	2	1	6I-0594	3	NUT (M10X1.5-THD)						



GRAPHIC #1

<END>

g01148578

ELECTRICAL AND STARTING SYSTEM

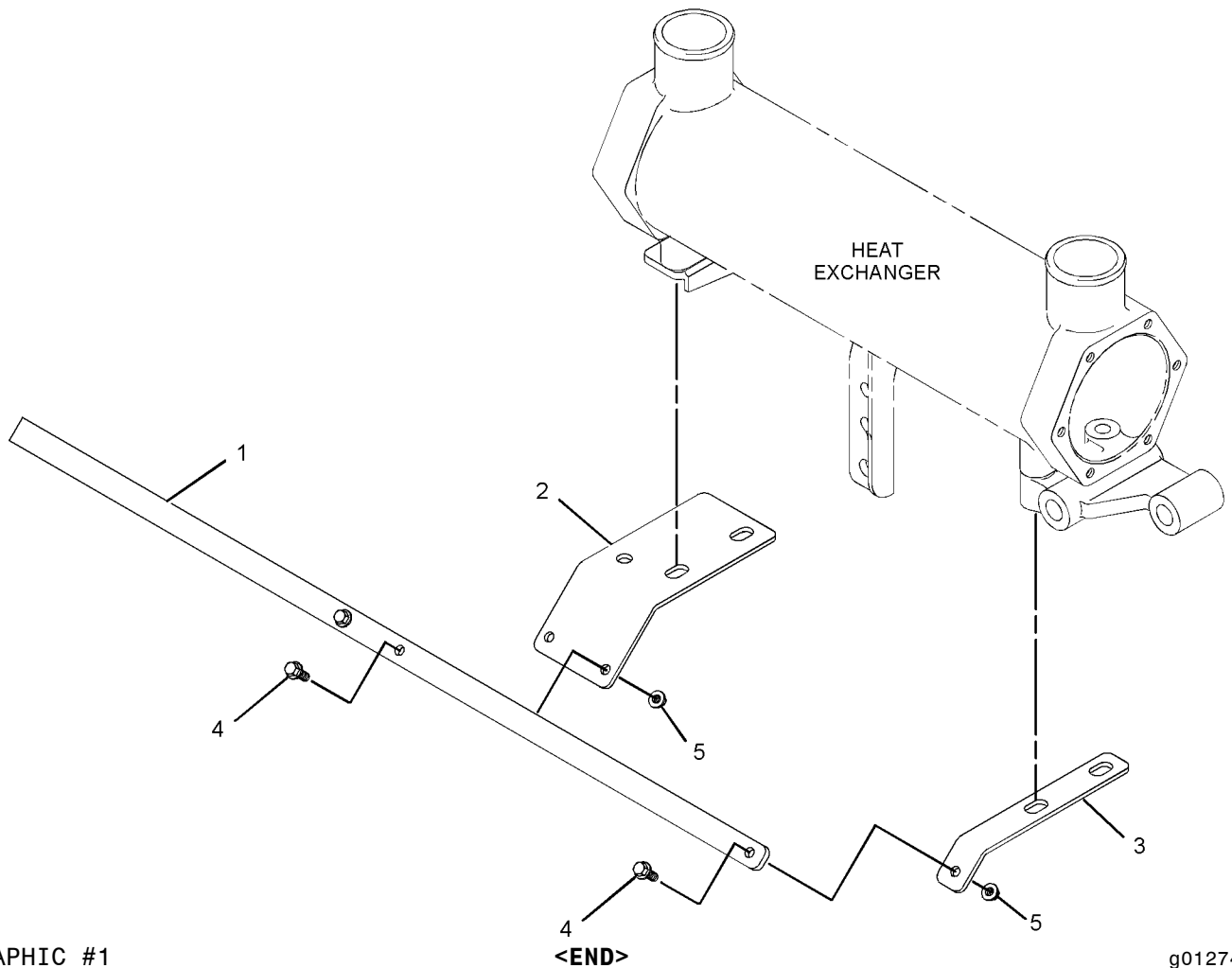
290-1228 MOUNTING GP-WIRING

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1408

i02540672

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	290-1229	1	SUPPORT						
	2	1	290-1231	1	BRACKET						
	3	1	290-1232	1	BRACKET						
	4	1	245-6541	3	BOLT						
	5	1	199-1187	3	NUT (M5)						



ELECTRICAL AND STARTING SYSTEM

290-2483 MOUNTING GP-WIRING

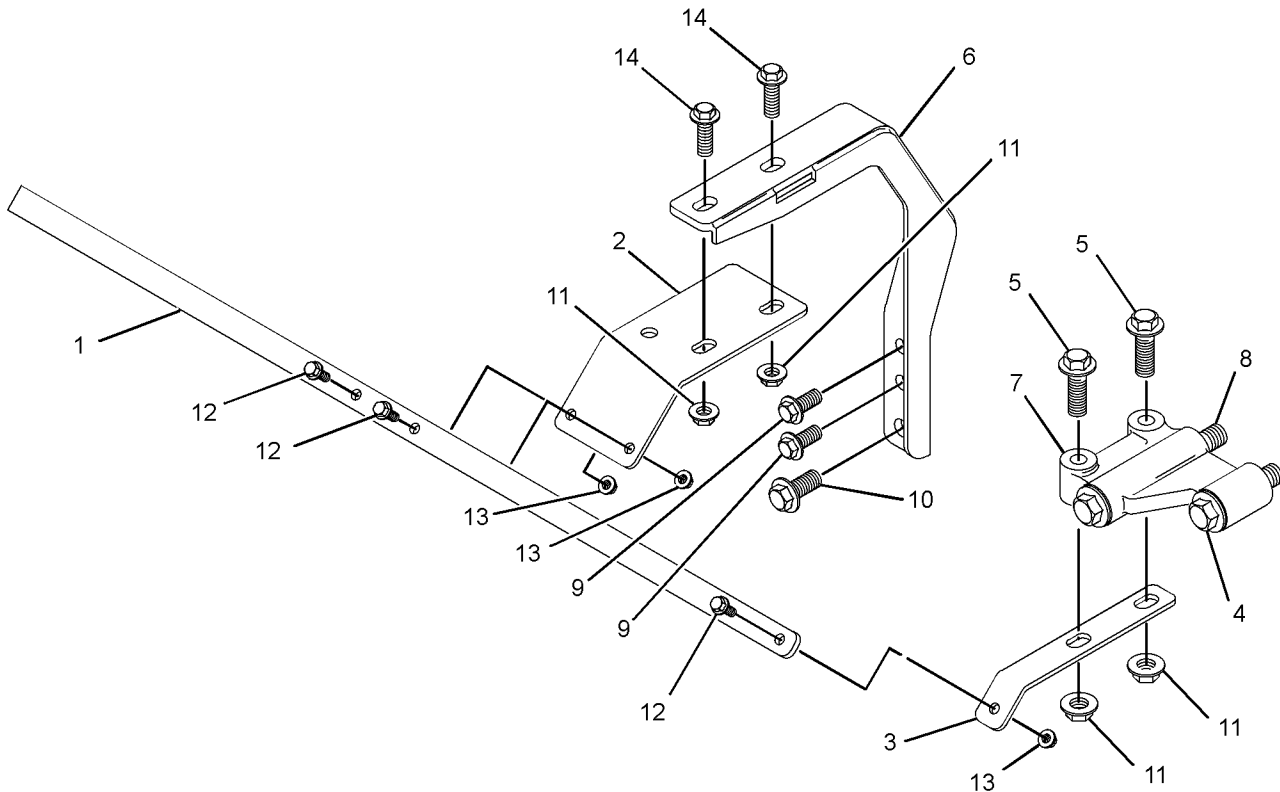
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS - 1408

i02540685

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	290-1229	1	SUPPORT						
	2	1	290-1231	1	BRACKET						
	3	1	290-1232	1	BRACKET						
	4	1	6I-0235	1	BOLT (M12X1.75X50-MM)						
	5	1	6I-1090	2	BOLT (M8X1.25X40-MM)						
	6	1	270-4176	1	BRACKET-SUPPORT						
	7	1	210-6899	1	BRACKET						
	8	1	210-6900	1	BOLT-FLANGE HEAD (M12X100-MM)						
M	9	1	124-3815	2	BOLT (M8X16X1.25-MM)						
M	10	1	100-4830	1	BOLT (M10X1.5X20-MM)						
	11	1	6I-0291	4	NUT (M8X1.25-THD)						
	12	1	245-6541	3	BOLT						
	13	1	199-1187	3	NUT (M5)						
M	14	1	6I-0217	2	BOLT (M8X1.25X20-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01274064

ELECTRICAL AND STARTING SYSTEM

263-8006 SENDER GP-TEMP & PRESS

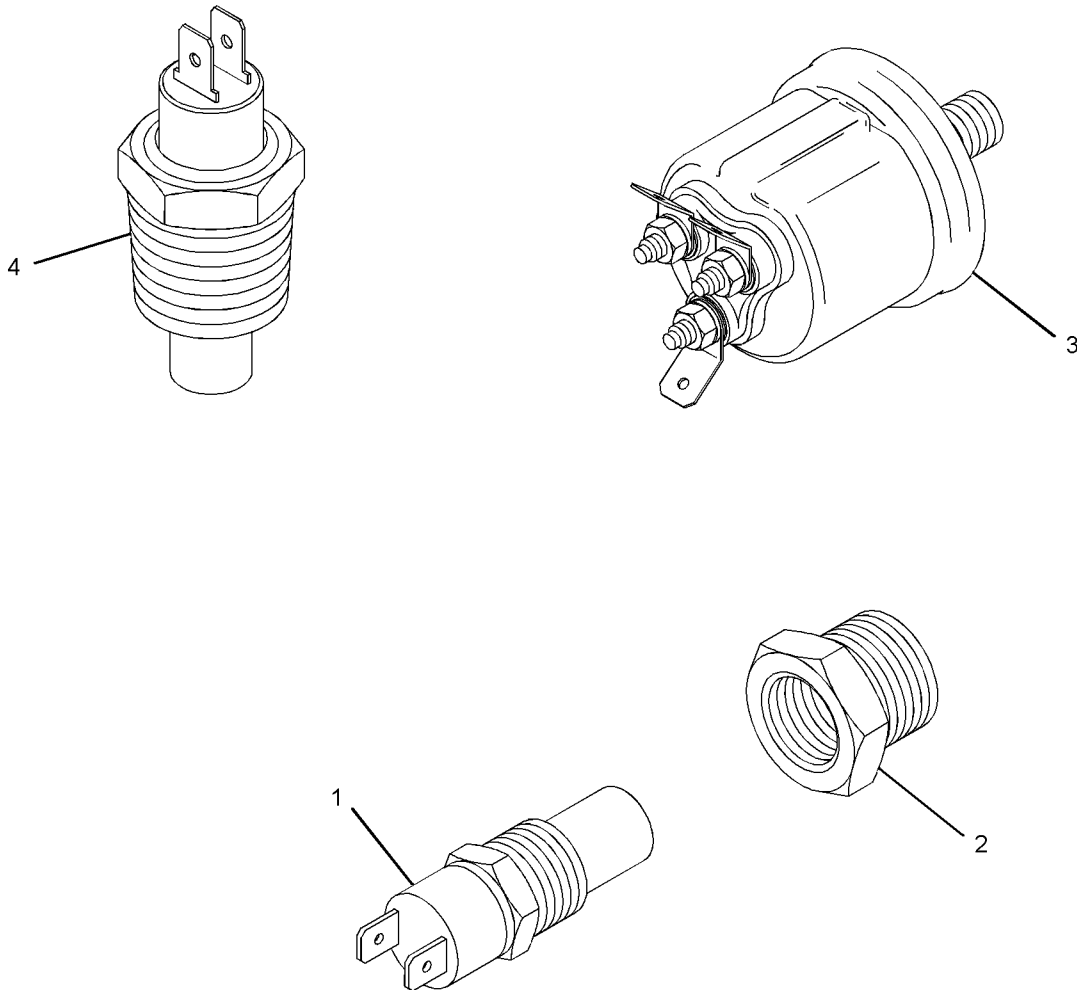
S/N: L1K1-UP; S1M1-UP

FOR USE WITH SINGLE STATION CONTROL PANELS. CANNOT BE USED WITH DUAL STATION
CONTROL PANELS
AN ATTACHMENT

SMCS-1906, 7400

i02327221

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5150	1	SWITCH AS-TEMPERATURE (96-DEG) (COOLANT)						
	2	1	210-6962	1	ADAPTER						
	3	1	196-7693	1	SWITCH AS-PRESSURE (OIL PRESSURE 0-5 BAR) (ENGINE)						
	4	1	7E-6831	1	SENDER-WATER TEMPERATURE (COOLANT)						



GRAPHIC #1

<END>

g01148780

ELECTRICAL AND STARTING SYSTEM

270-6983 SENDER GP-TEMP & PRESS

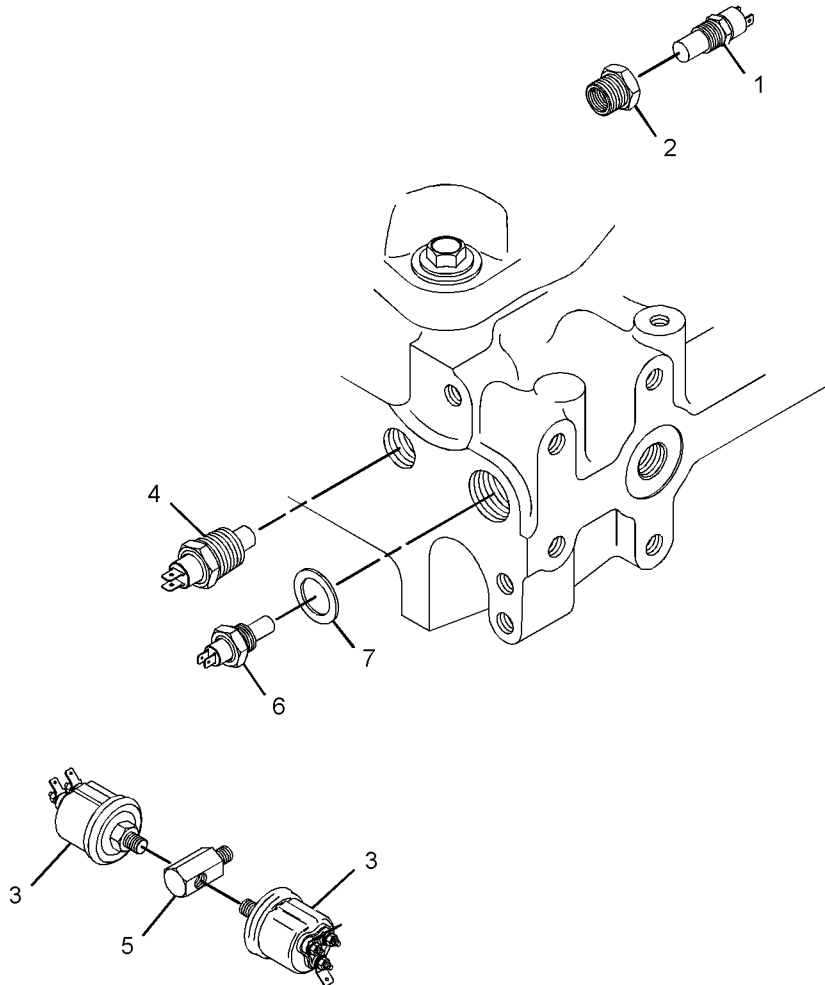
S/N: L1K1-UP; S1M1-UP

FOR USE WITH DUAL STATION CONTROL PANELS
AN ATTACHMENT

SMCS-1906, 7400

i02327218

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	193-5150	1	SWITCH AS-TEMPERATURE (96-DEG) (COOLANT)						
	2	1	210-6962	1	ADAPTER						
	3	1	196-7693	2	SWITCH AS-PRESSURE (OIL PRESSURE 0-5 BAR) (ENGINE)						
	4	1	7E-6831	1	SENDER-WATER TEMPERATURE (COOLANT)						
	5	1	270-6959	1	ADAPTER						
	6	1	270-6969	1	SENDER-WATER TEMPERATURE (COOLANT)						
	7	1	236-6056	1	WASHER (M18)						



GRAPHIC #1

<END>

g01148363

ELECTRICAL AND STARTING SYSTEM

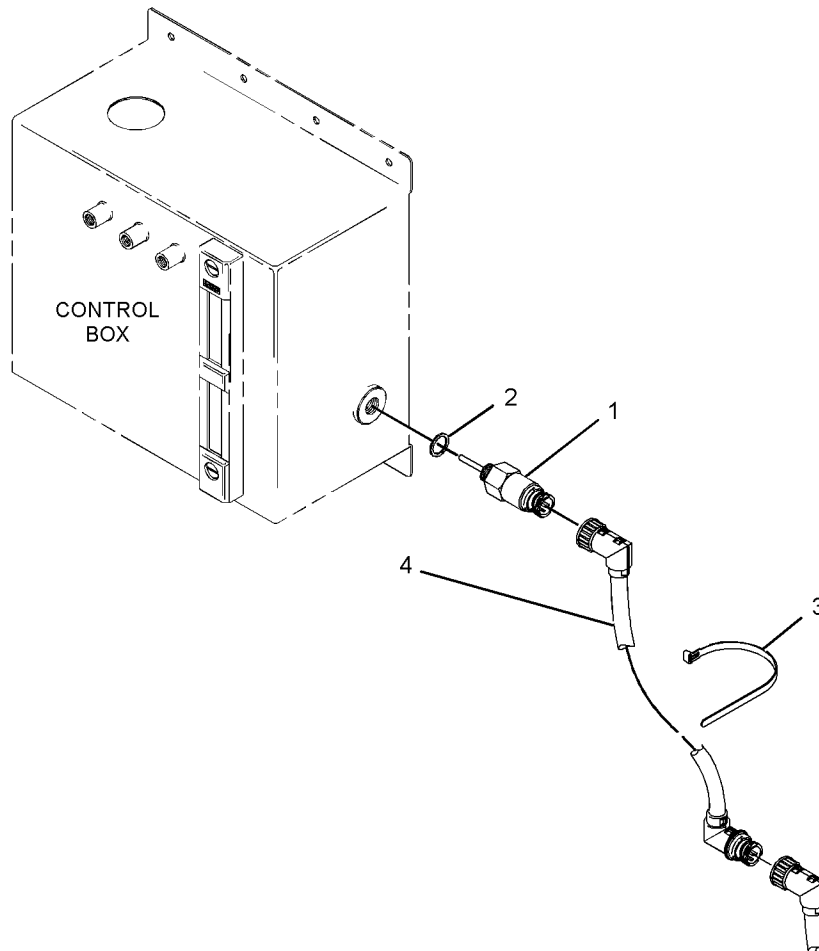
290-1132 SENSOR GP-LIQUID LEVEL-COOLANT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-7422

i02540669

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	281-2372	1	SWITCH-LEVEL (COOLANT)						
	2	1	236-6056	1	WASHER (M18)						
	3	1	290-1129	6	STRAP						
	4	1	290-1128	1	HARNESS AS-WIRING						



GRAPHIC #1

<END>

g01279010

ELECTRICAL AND STARTING SYSTEM

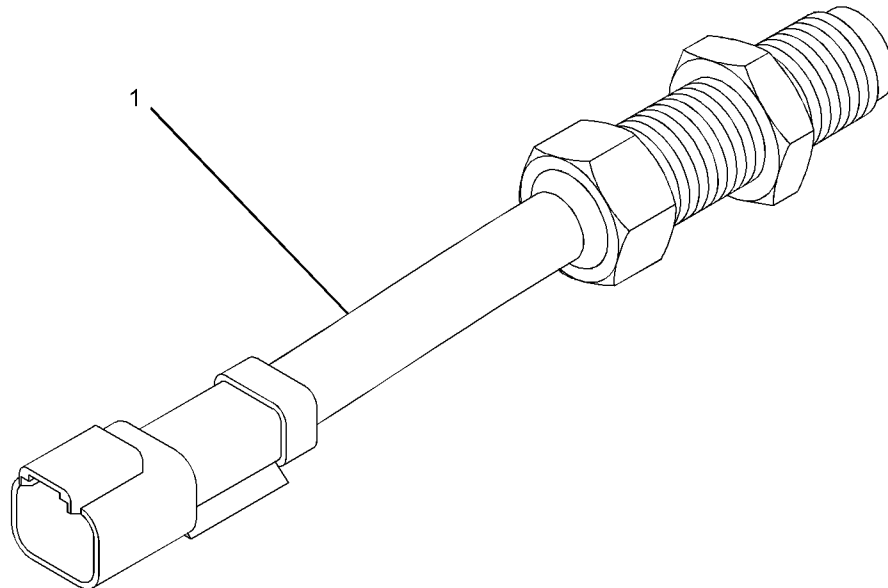
270-3880 SENSOR GP-SPEED-ENGINE

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1907

i02623633

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	270-3881	1	SENSOR AS-SPEED (ENGINE)						
		1	9W-0852	2	PIN-CONNECTOR (14-GA)						
		1	102-8802	1	KIT-RECEPTACLE (2-PIN)						
(INCLUDES RECEPTACLE AS AND WEDGE)											



GRAPHIC #1

<END>

g01148622

ELECTRICAL AND STARTING SYSTEM

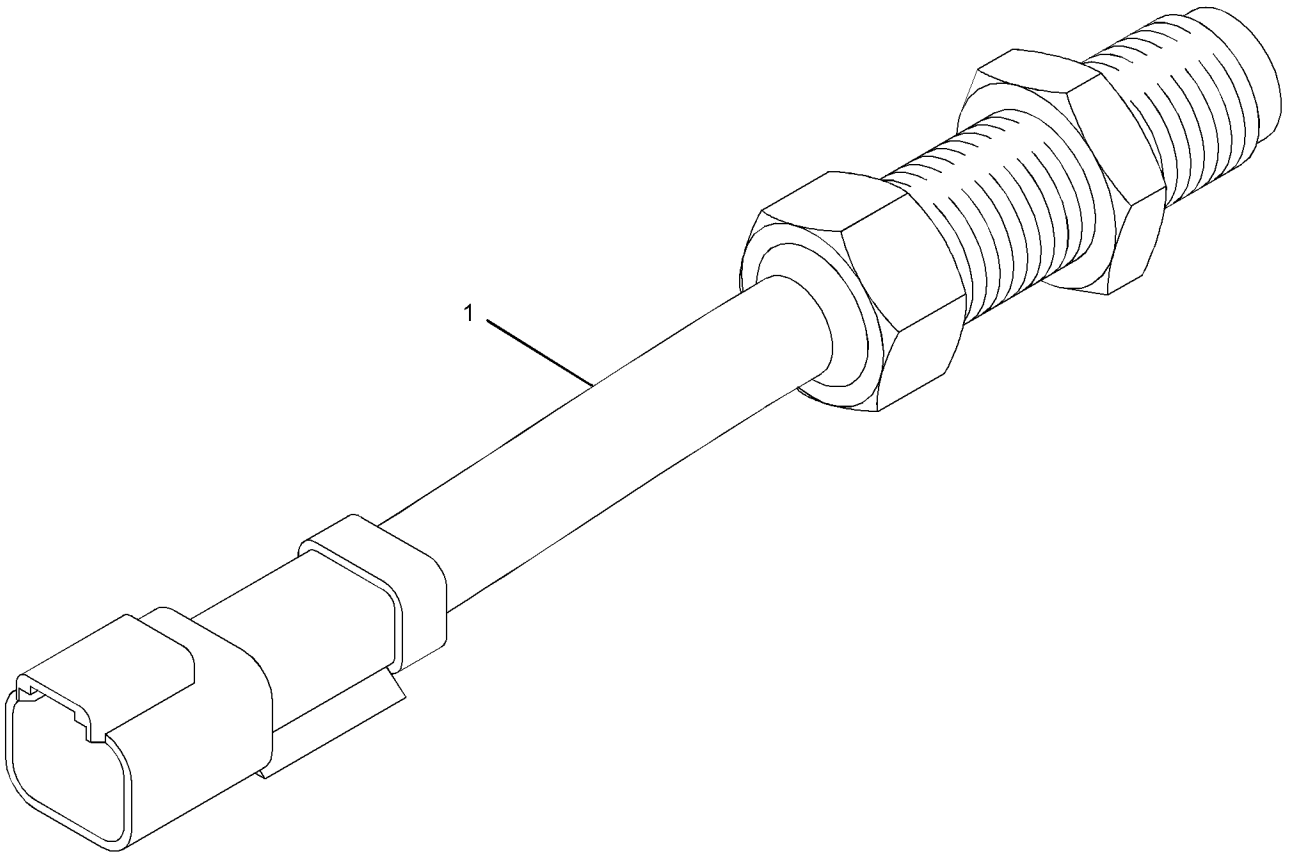
289-6005 SENSOR GP-SPEED-ENGINE

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1907

i02614911

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-6006	1	SENSOR AS-SPEED (ENGINE)						



GRAPHIC #1

<END>

g01274306

ELECTRICAL AND STARTING SYSTEM

289-2419 STARTING MOTOR GP-AIR

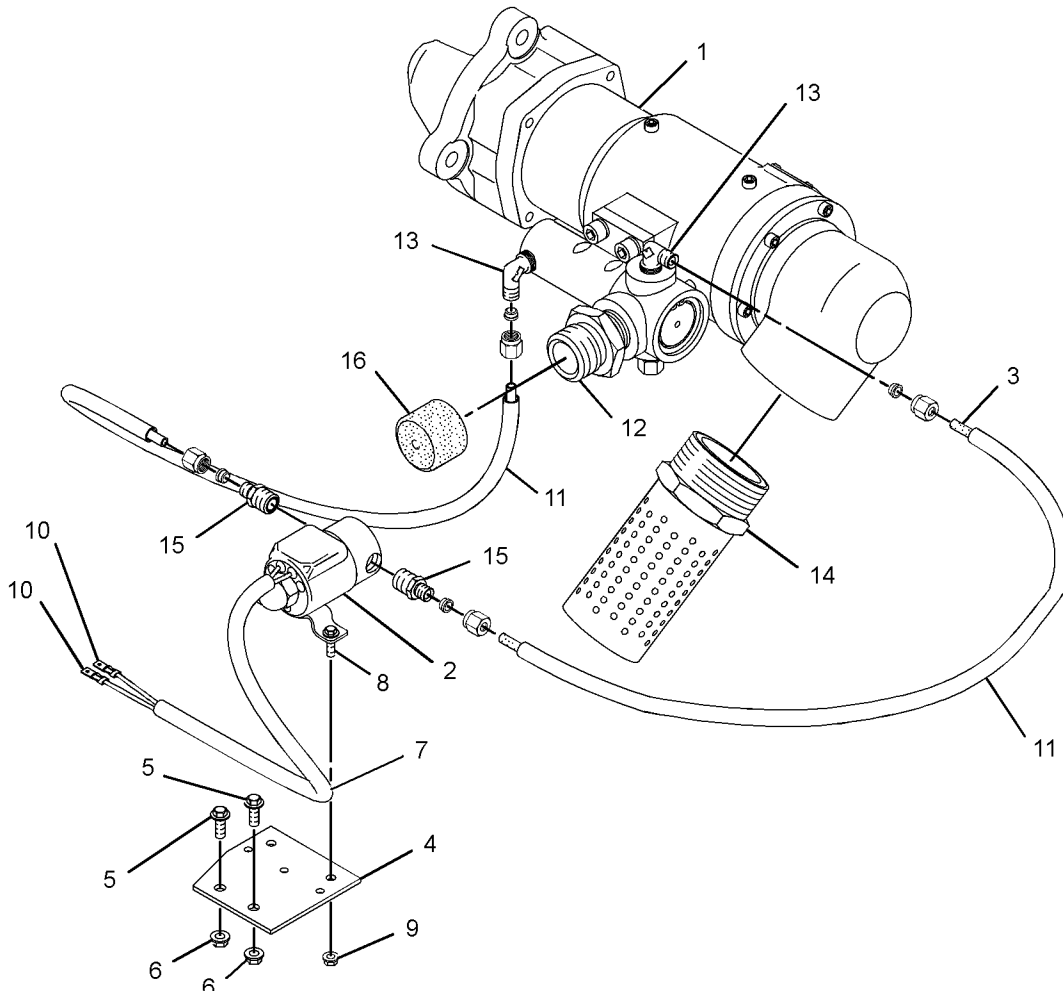
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1451

i02539369

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-2364	1	STARTER						
	2	1	214-6584	1	SOLENOID (AIR START)						
	3	1	214-6585	1	HOSE						
	4	1	289-2396	1	BRACKET						
	5	1	106-8916	2	BOLT (M6X16-MM)						
	6	1	6I-0918	2	NUT (M6-THD)						
E	7	1	289-3195		CONDUIT (55-CM)						
	8	1	245-6541	2	BOLT						
	9	1	199-1187	2	NUT (M5)						
	10	1	289-2397	2	TERMINAL						
E	11	1	197-3800		LOOM (67-CM)						
	12	1	289-2400	1	ADAPTER						
	13	1	289-2401	2	ADAPTER						
	14	1	289-2402	1	SILENCER-EXHAUST						
	15	1	214-6574	2	FITTING						
	16	1	217-7843	1	CAP						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01274104

ELECTRICAL AND STARTING SYSTEM

289-2420 STARTING MOTOR GP-AIR

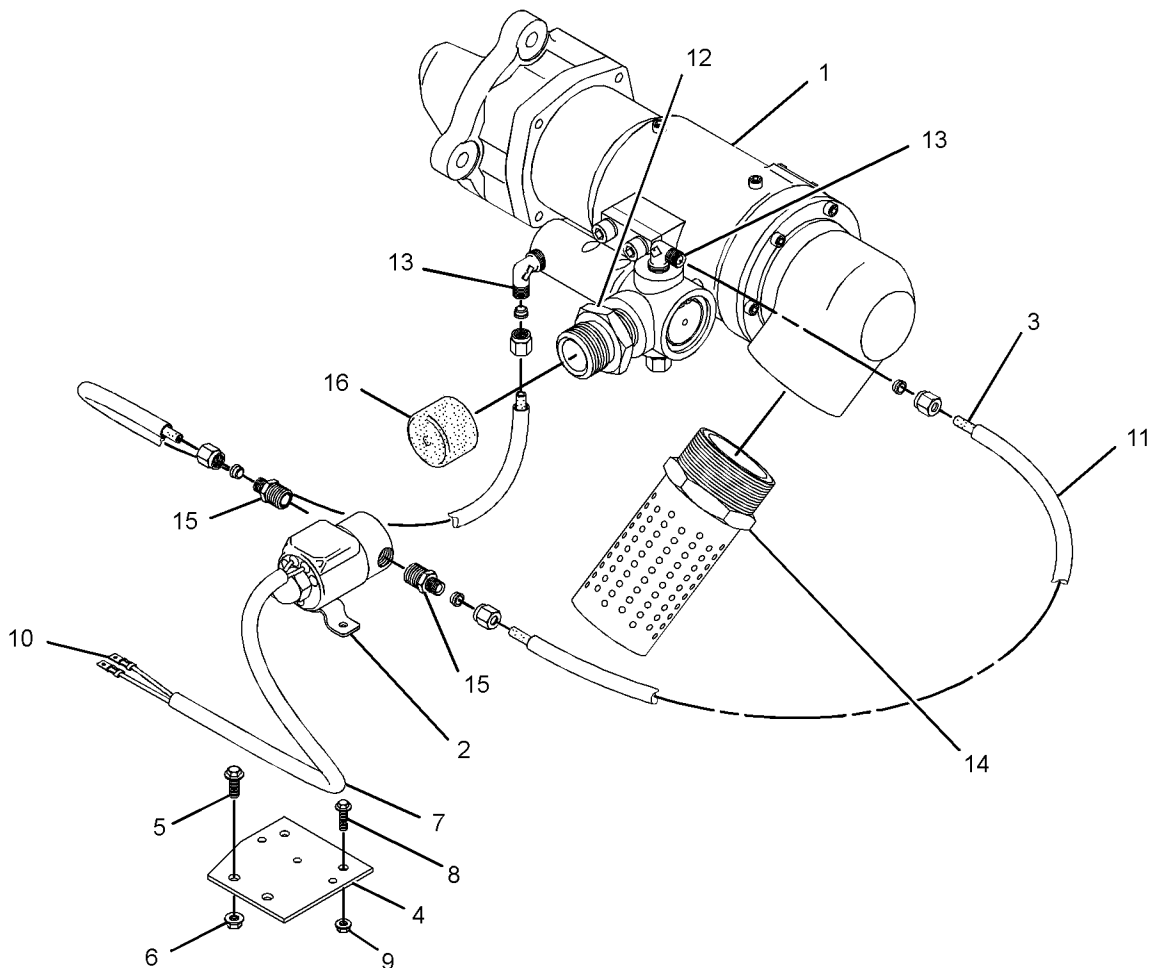
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1451

i02539362

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-2364	1	STARTER						
	2	1	214-6593	1	SOLENOID (STARTER)						
	3	1	214-6585	1	HOSE						
	4	1	289-2396	1	BRACKET						
	5	1	106-8916	2	BOLT (M6X16-MM)						
	6	1	6I-0918	2	NUT (M6-THD)						
E	7	1	289-3195		CONDUIT (55-CM)						
	8	1	245-6541	2	BOLT						
	9	1	199-1187	2	NUT (M5)						
	10	1	289-2397	2	TERMINAL						
E	11	1	197-3800		LOOM (67-CM)						
	12	1	289-2400	1	ADAPTER						
	13	1	289-2401	2	ADAPTER						
	14	1	289-2402	1	SILENCER-EXHAUST						
	15	1	214-6574	2	FITTING						
	16	1	217-7843	1	CAP						

E-ORDER BY THE CENTIMETER



GRAPHIC #1

<END>

g01273642

ELECTRICAL AND STARTING SYSTEM

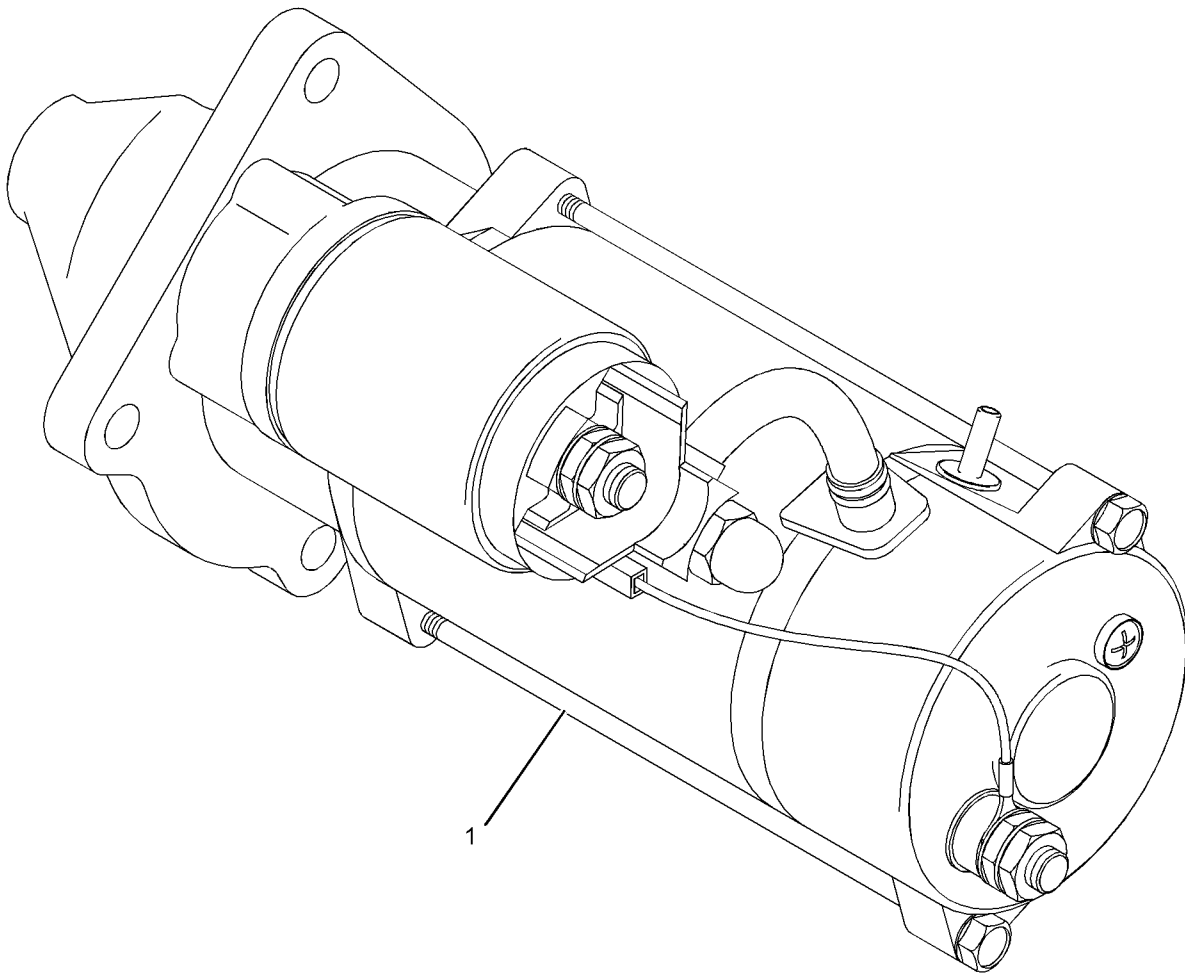
269-7371 STARTING MOTOR GP-ELECTRIC

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1453

i02290993

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-7369	1	STARTER						



GRAPHIC #1

<END>

g01148783

ELECTRICAL AND STARTING SYSTEM

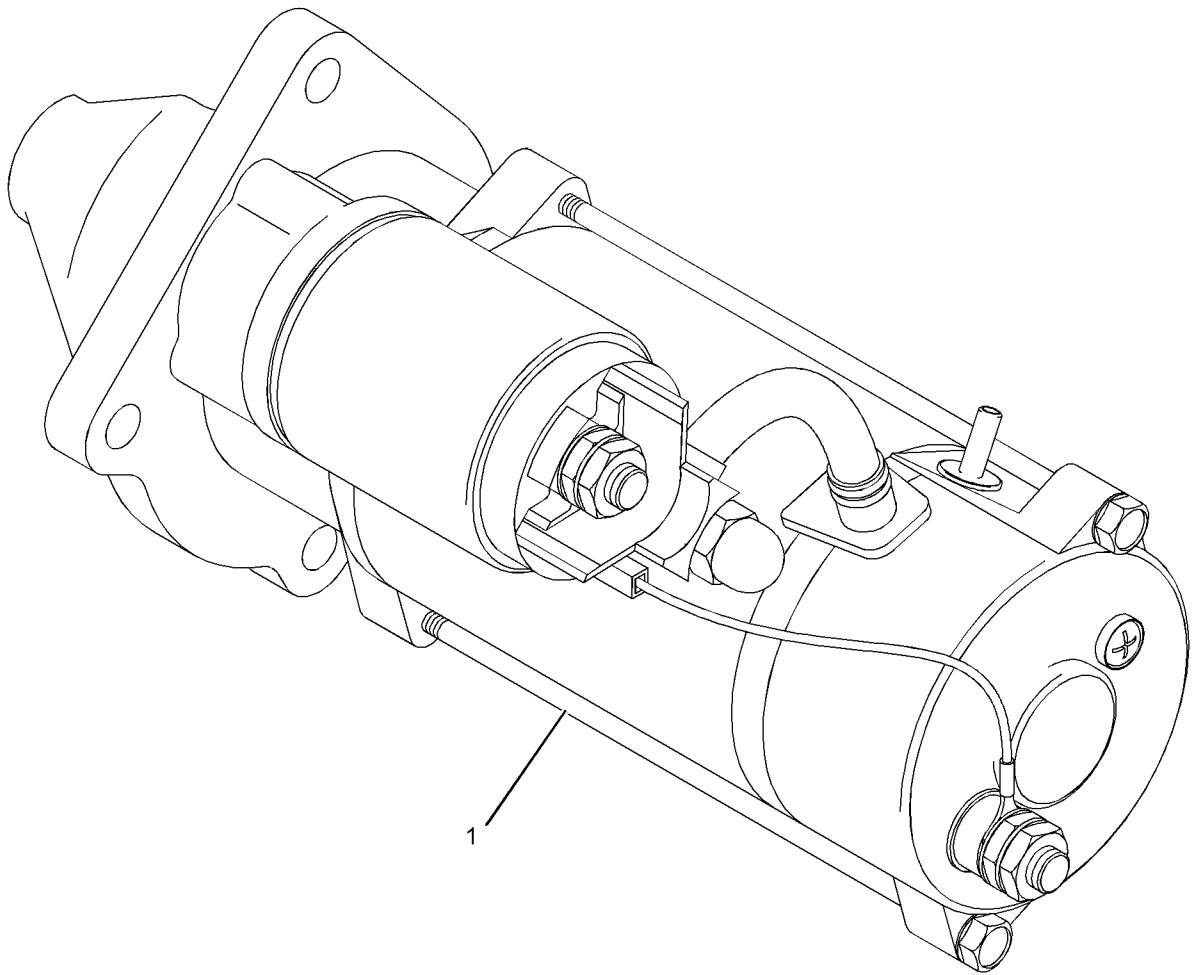
269-7374 STARTING MOTOR GP-ELECTRIC

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1453

i02290996

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	269-7368	1	STARTER						



GRAPHIC #1

<END>

g01148783

ELECTRICAL AND STARTING SYSTEM

7N-0718 SWITCH GP-DISCONNECT

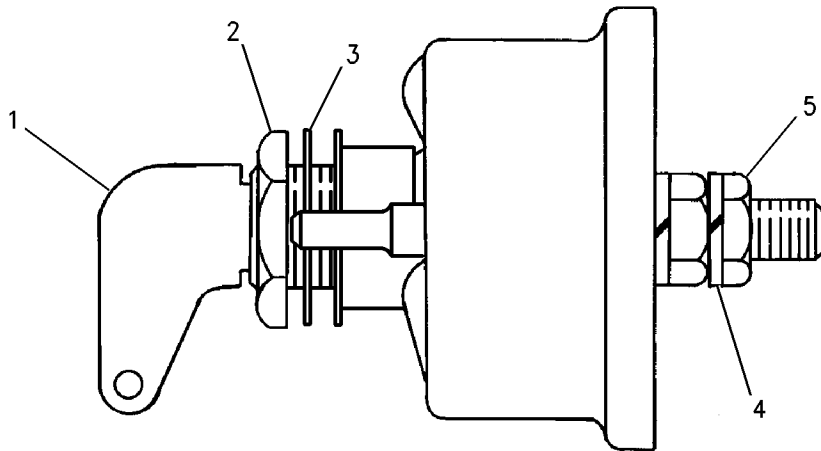
S/N: L1K1-UP; S1M1-UP

PART OF 290-5538, 290-6413 WIRING GP-ENGINE, 274-1241, 274-1871 WIRING
GP-INSTR & IGNITION
AN ATTACHMENT

SMCS-1411

i02516999

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	8H-5306	1	KEY (BATTERY DISCONNECT)						
	2	1	8H-5303	1	NUT (3/4-16-THD)						
	3	1	2H-3922	2	LOCKWASHER						
	4	1	9F-5644	2	LOCKWASHER						
	5	1	6F-7045	2	NUT-FULL (3/8X24-THD)						



GRAPHIC #1

<END>

g00715584

ELECTRICAL AND STARTING SYSTEM

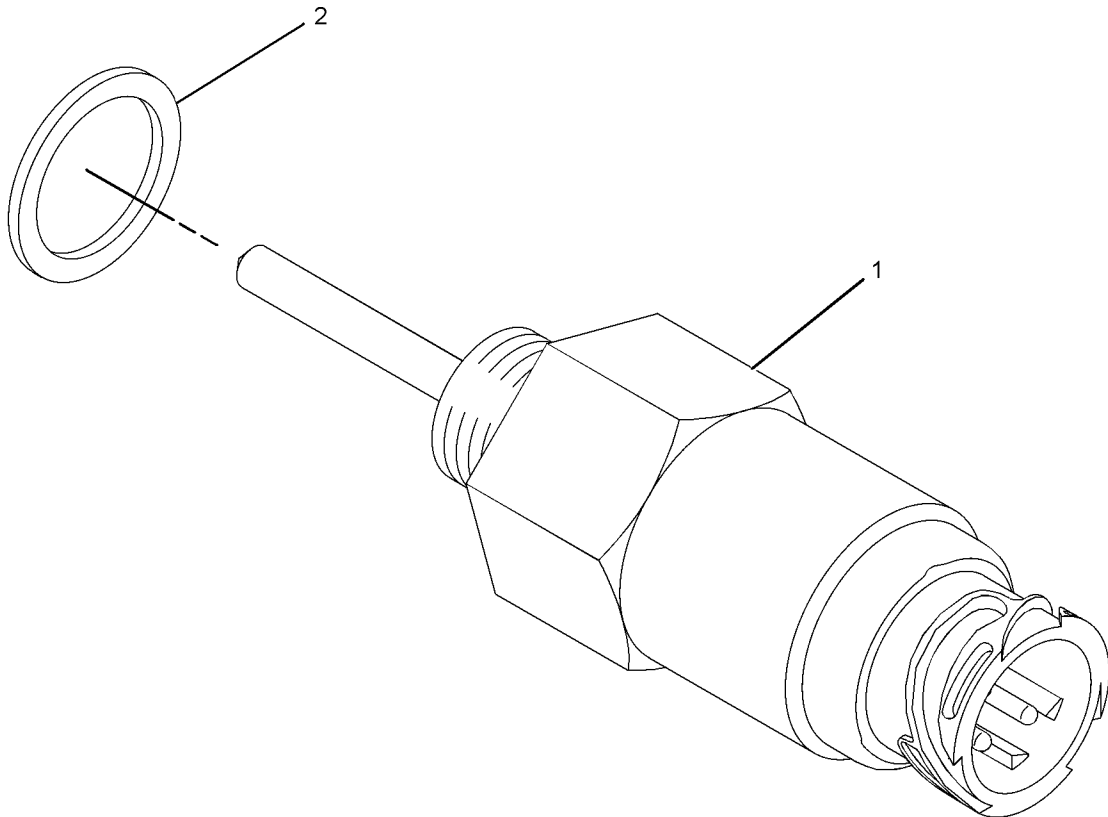
281-2371 SWITCH GP-LIQUID LEVEL

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-7422

i02615458

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	281-2372	1	SWITCH-LEVEL (COOLANT)						
	2	1	236-6056	1	WASHER (M18)						



GRAPHIC #1

<END>

g01260127

ELECTRICAL AND STARTING SYSTEM

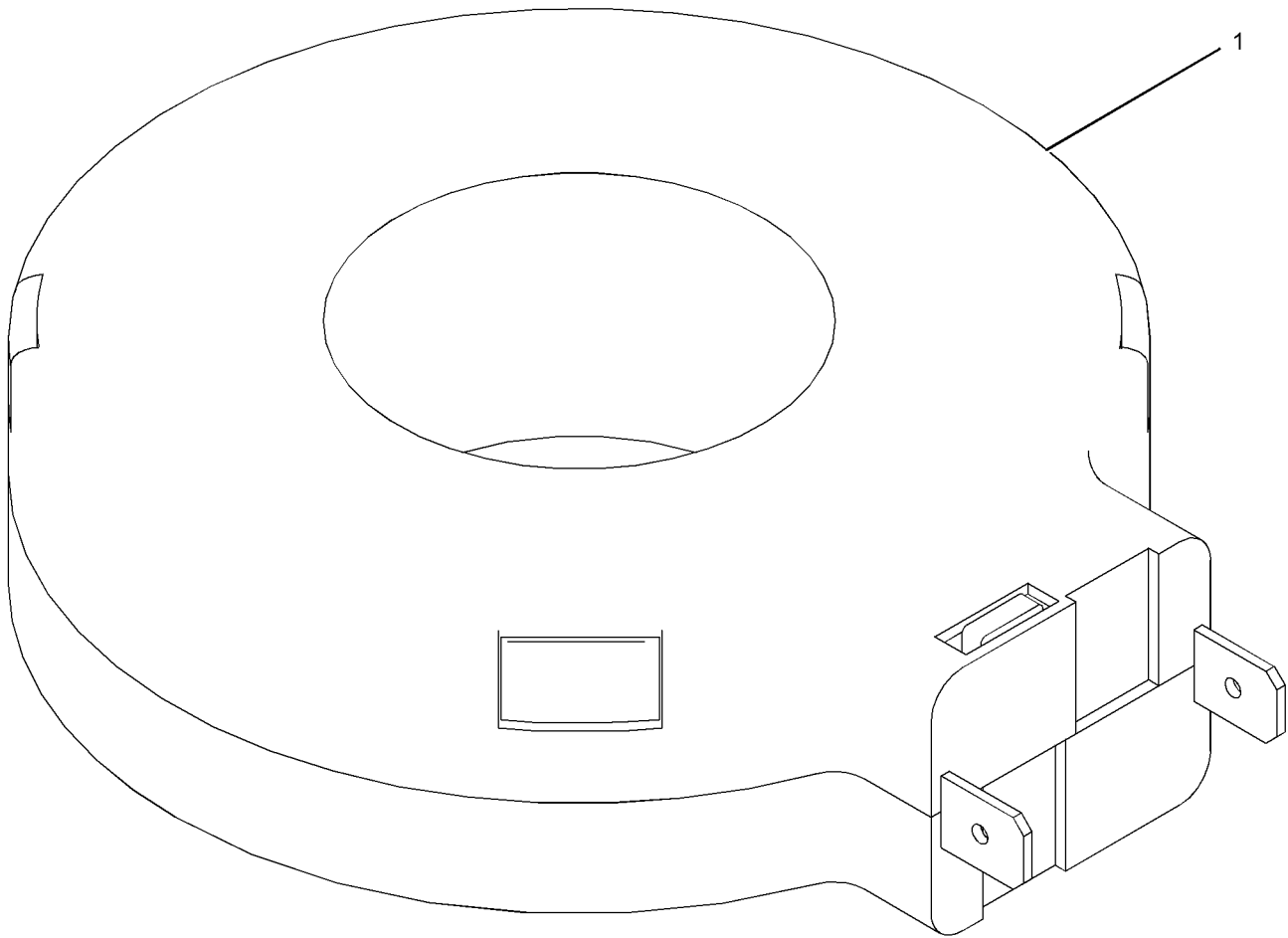
268-3146 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02288942

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-6241	1	TRANSFORMER						



GRAPHIC #1

<END>

g01157914

ELECTRICAL AND STARTING SYSTEM

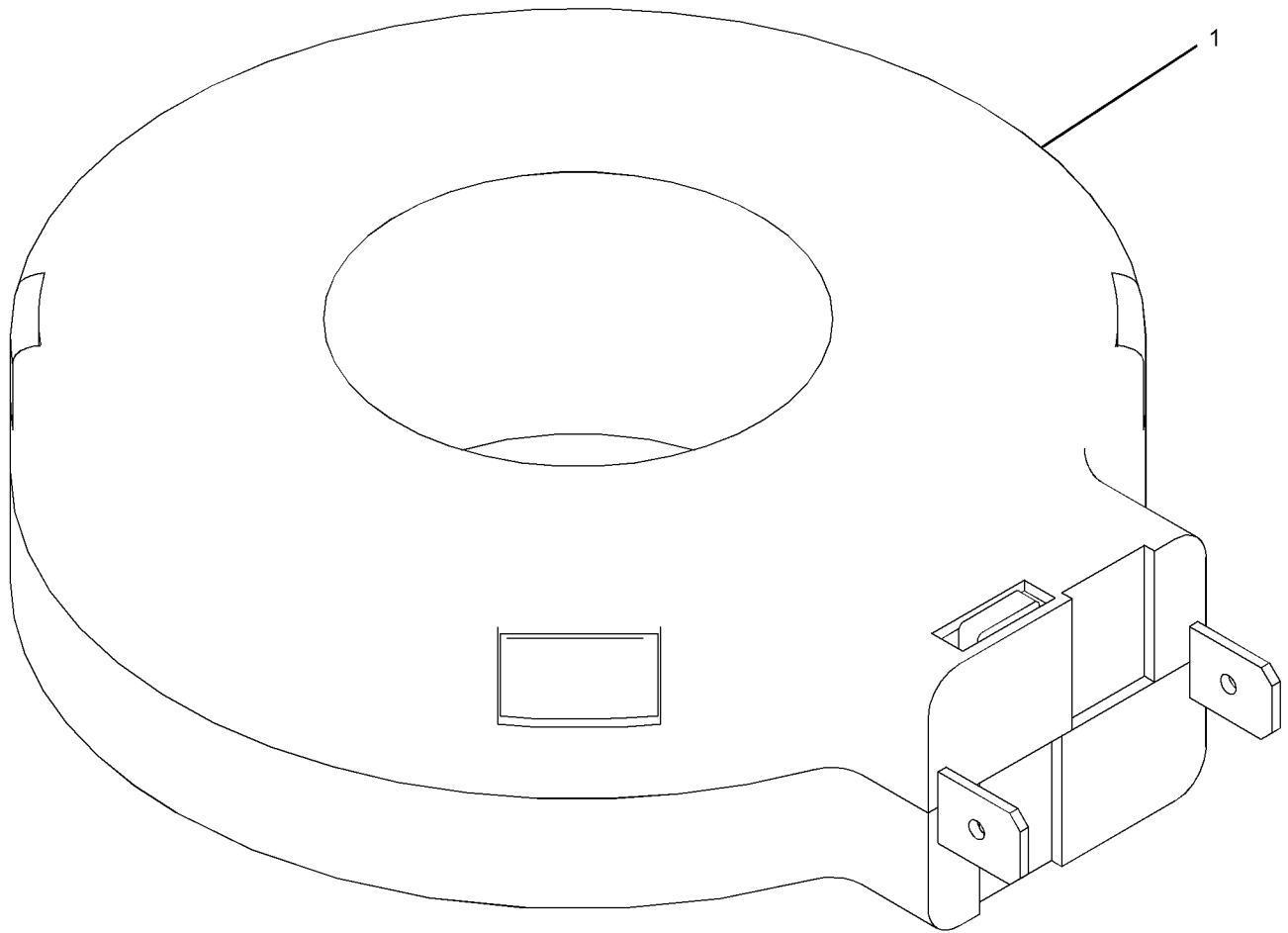
268-3147 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02288962

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	215-7473	3	TRANSFORMER						



GRAPHIC #1

<END>

g01157916

ELECTRICAL AND STARTING SYSTEM

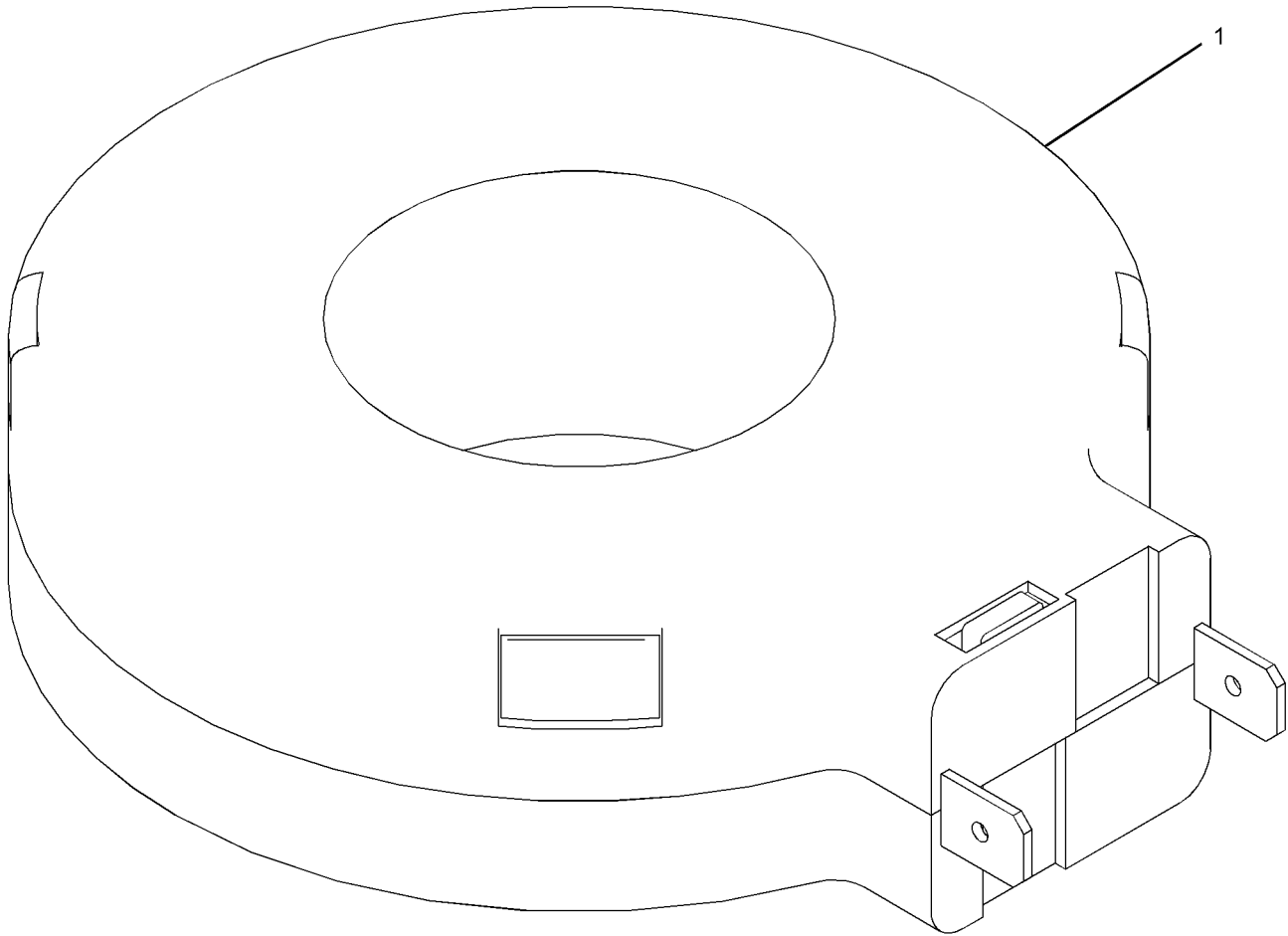
268-3150 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02312171

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-6238	1	TRANSFORMER						



GRAPHIC #1

<END>

g01157916

ELECTRICAL AND STARTING SYSTEM

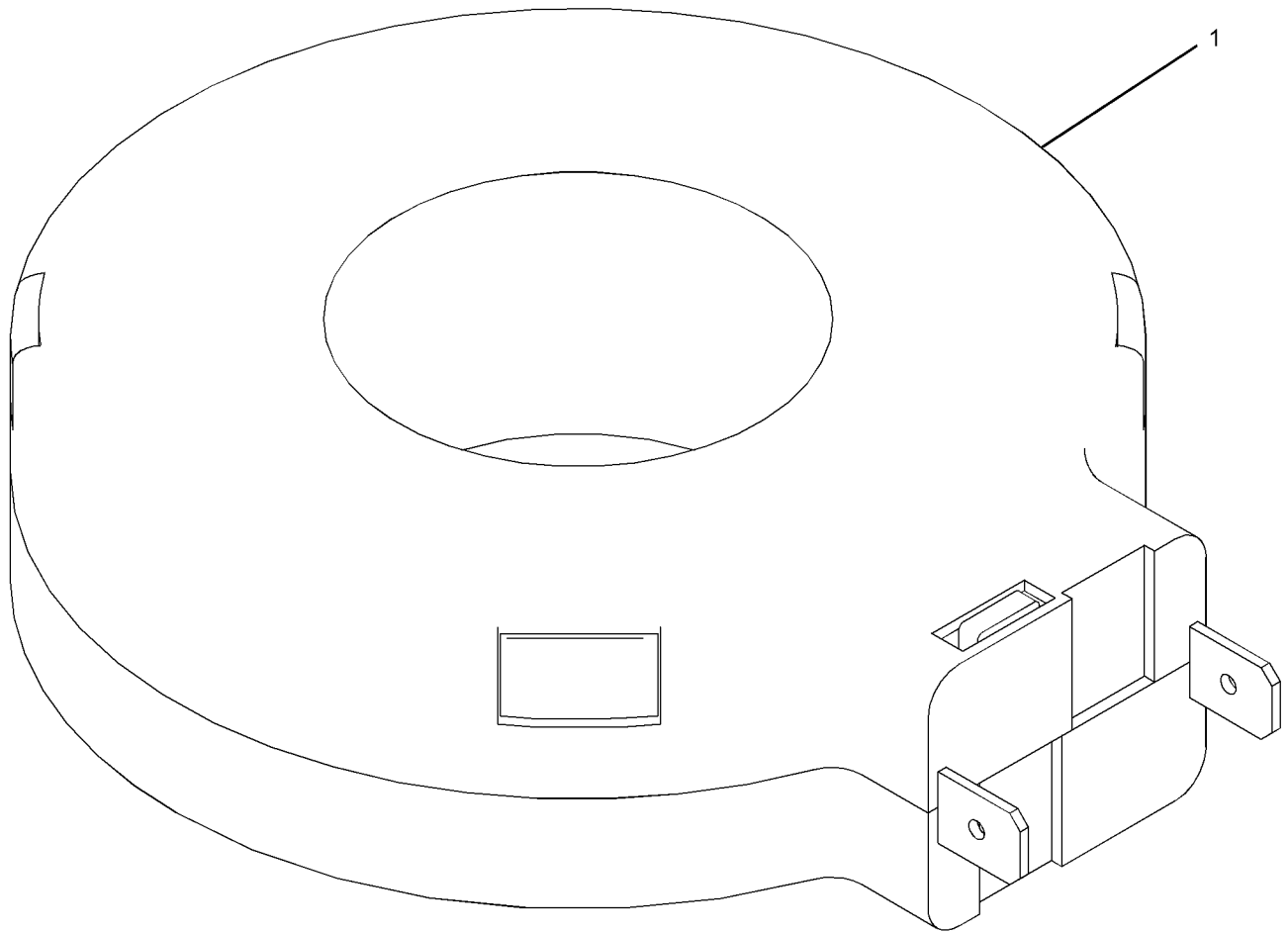
268-3152 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02288965

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-6240	3	TRANSFORMER						



GRAPHIC #1

<END>

g01157916

ELECTRICAL AND STARTING SYSTEM

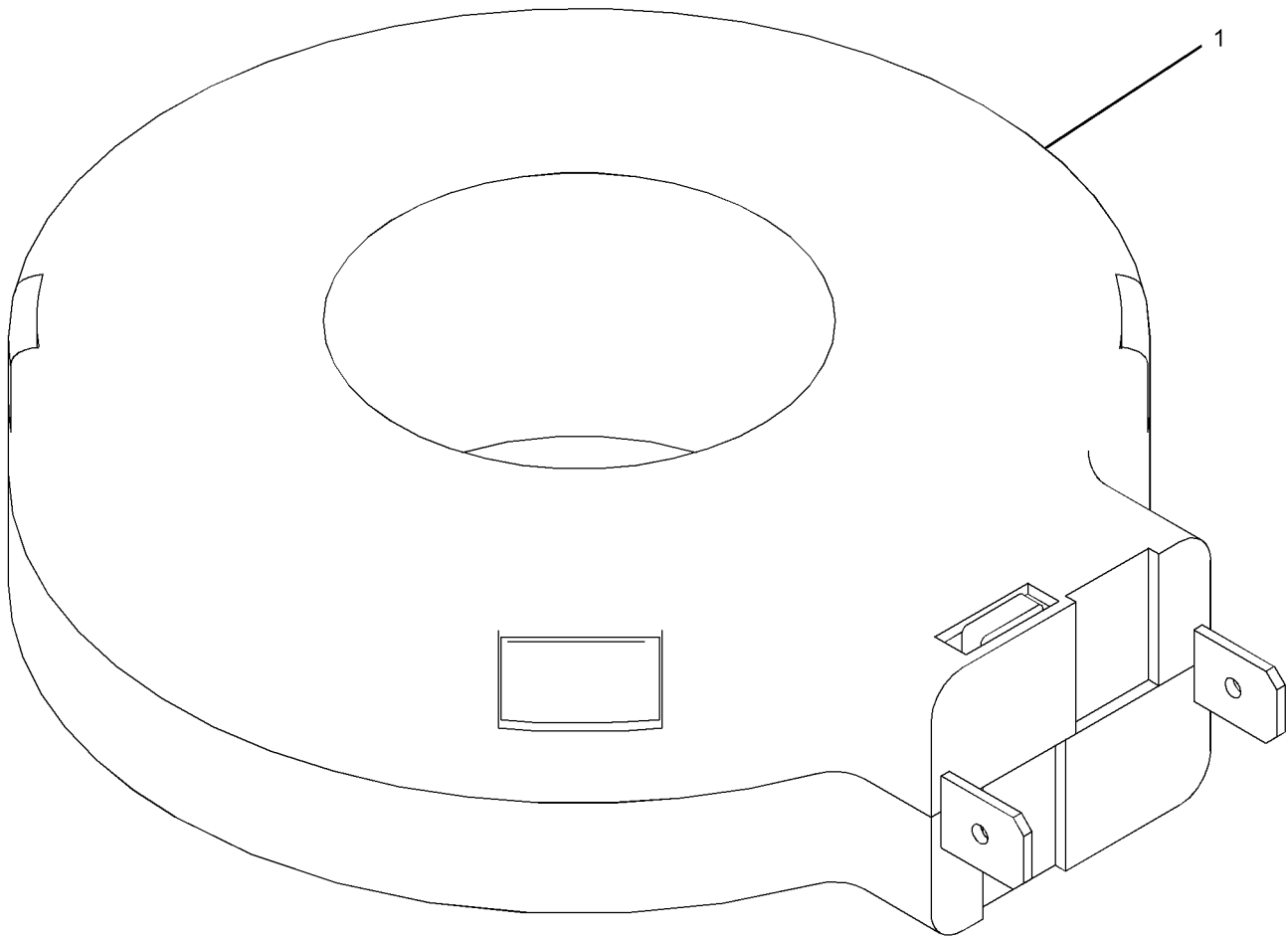
268-3178 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02288969

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	215-7471	3	TRANSFORMER						



GRAPHIC #1

<END>

g01157916

ELECTRICAL AND STARTING SYSTEM

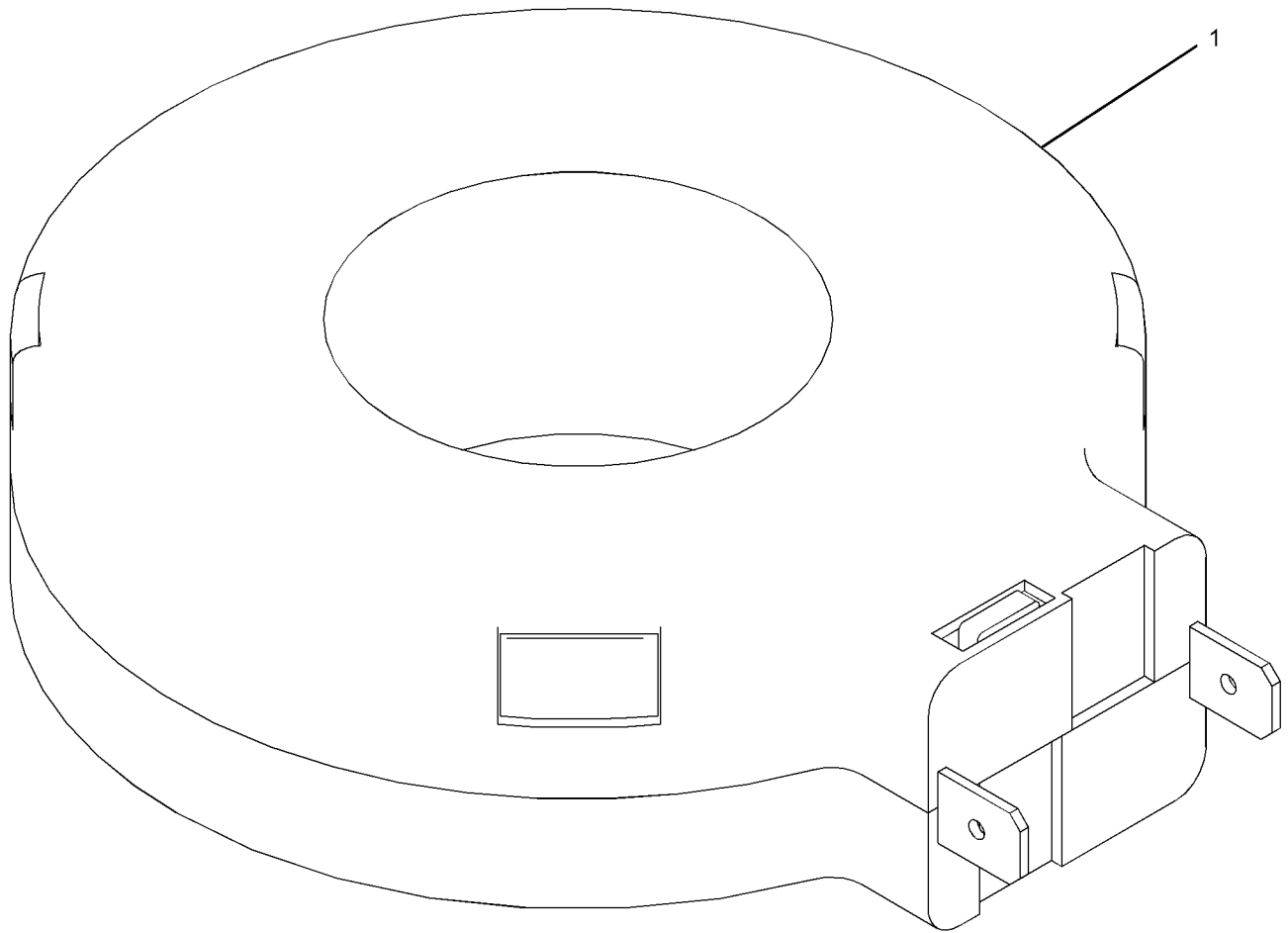
268-3188 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02288972

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-6239	1	TRANSFORMER						



GRAPHIC #1

<END>

g01157916

ELECTRICAL AND STARTING SYSTEM

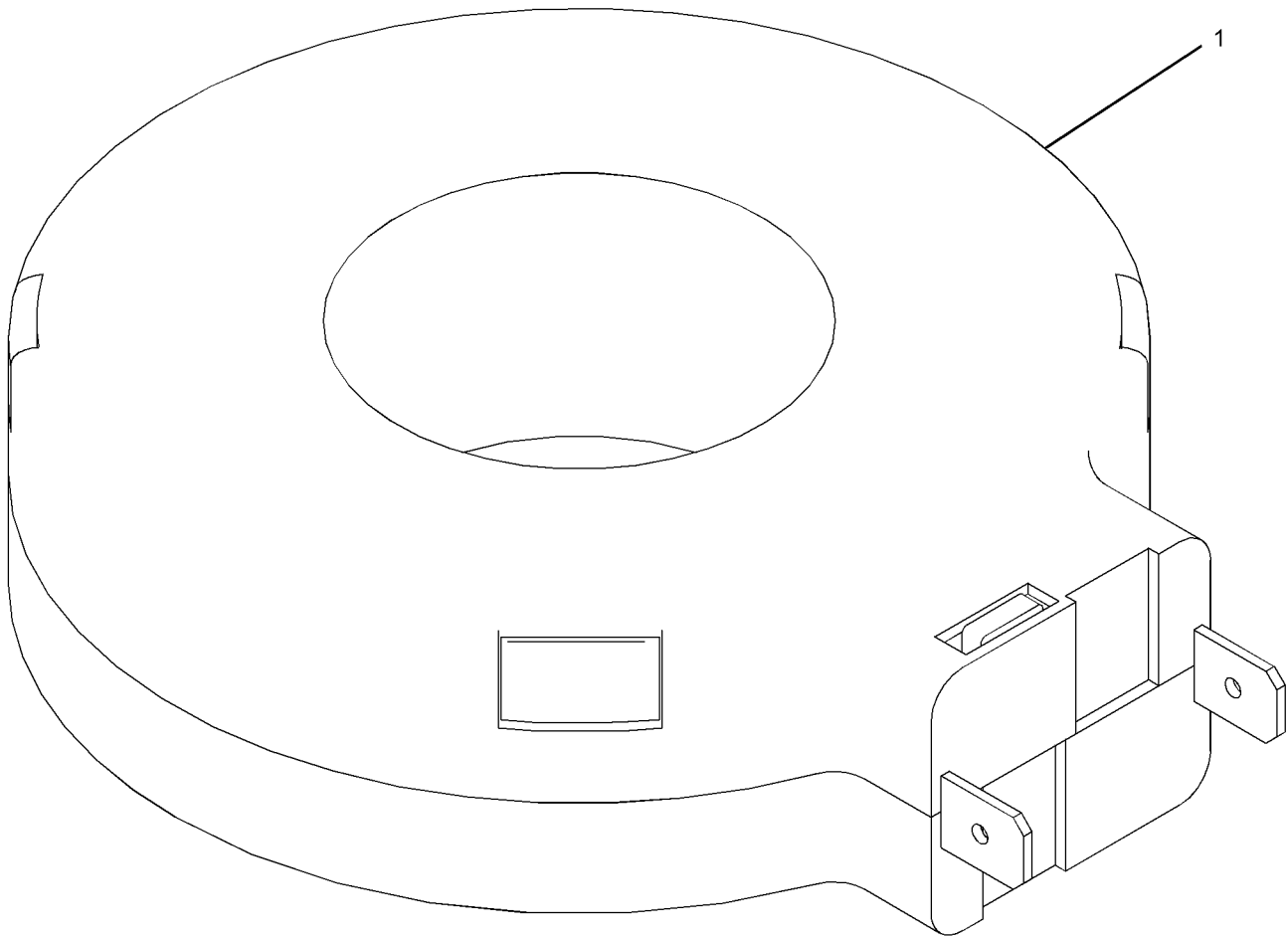
268-3199 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02288973

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-6237	1	TRANSFORMER						



GRAPHIC #1

<END>

g01157916

ELECTRICAL AND STARTING SYSTEM

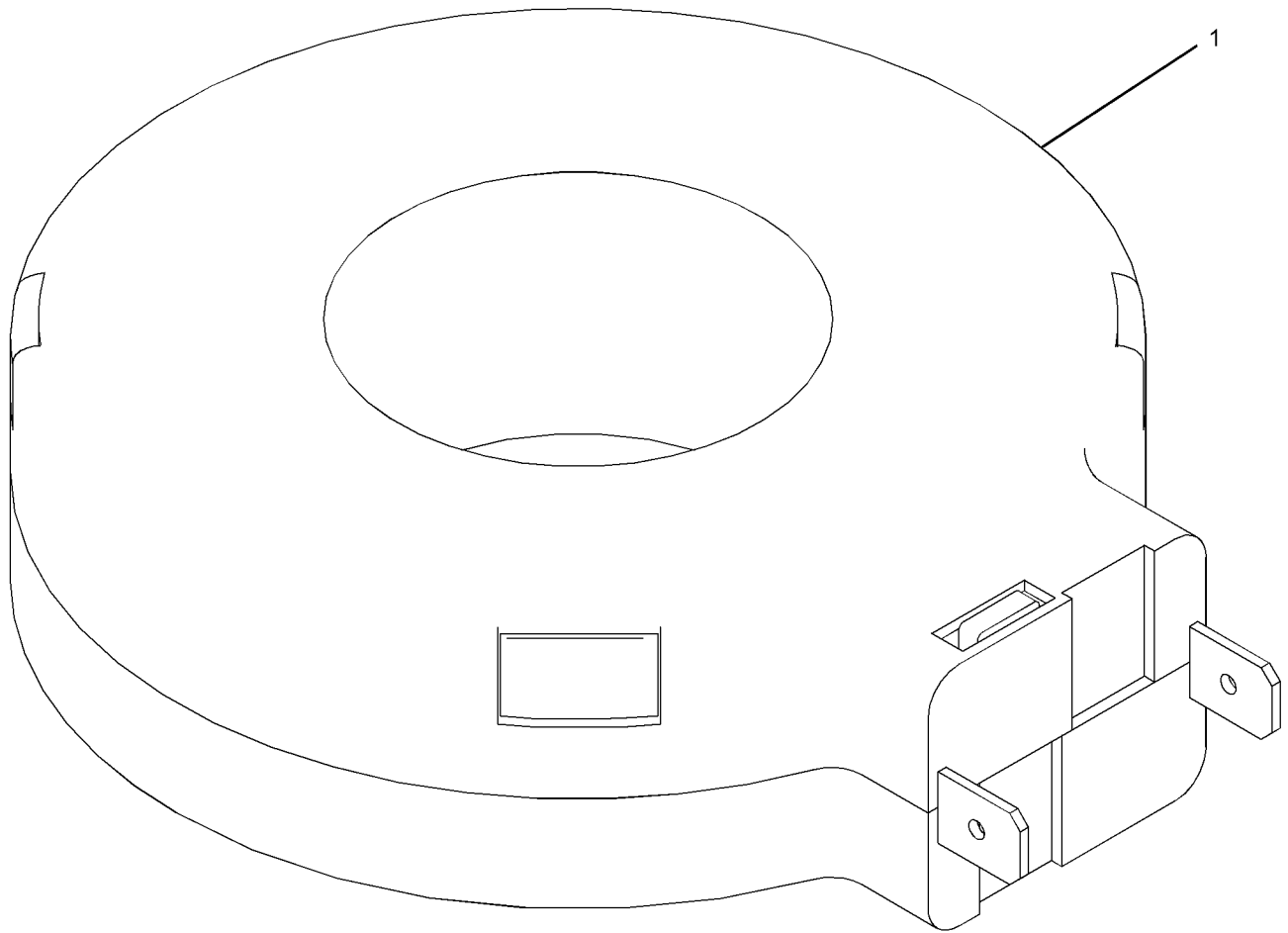
268-3235 TRANSFORMER GP-CURRENT

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4476

i02288976

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	215-7472	3	TRANSFORMER						



GRAPHIC #1

<END>

g01157916

ELECTRICAL AND STARTING SYSTEM

272-0518 TRANSFORMER GP-CURRENT

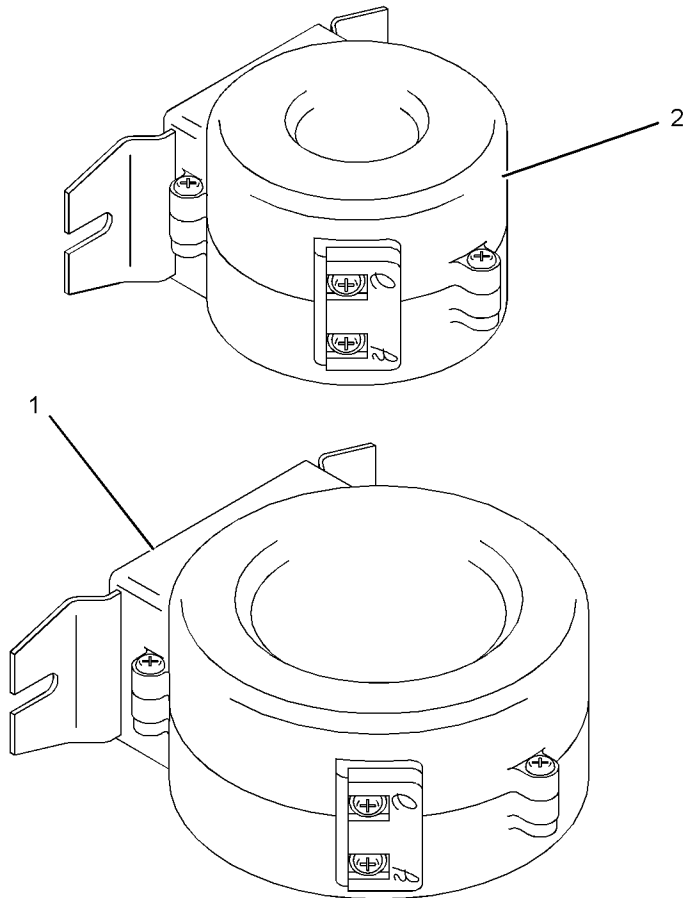
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY
AN ATTACHMENT

SMCS-4476

i02305969

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	272-0519	1	TRANSFORMER						
	2	1	272-0520	3	TRANSFORMER						



GRAPHIC #1

<END>

g01155723

ELECTRICAL AND STARTING SYSTEM

276-5177 TRANSFORMER GP-CURRENT

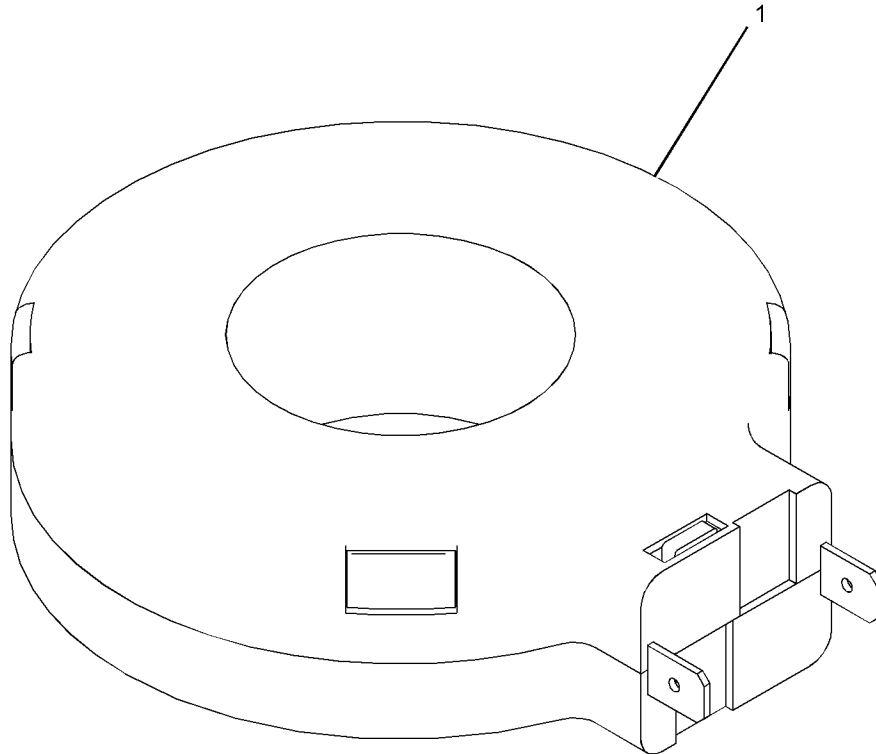
S/N: S1M1-UP

FOR USE WITH THE C4.4 TA MARINE GENSET PACKAGE.
AN ATTACHMENT

SMCS-4476

i02363199

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	276-5179	3	TRANSFORMER						



GRAPHIC #1

<END>

g01193330

ELECTRICAL AND STARTING SYSTEM

276-5178 TRANSFORMER GP-CURRENT

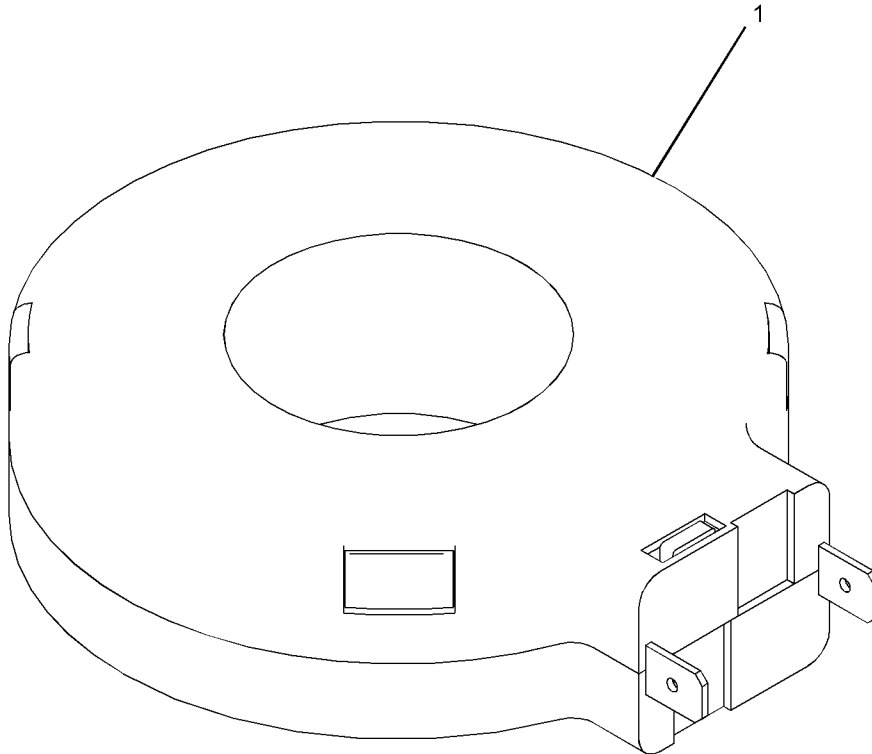
S/N: S1M1-UP

FOR USE WITH THE C4.4 TA MARINE GENSET PACKAGE.
AN ATTACHMENT

SMCS-4476

i02363201

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	276-5181	1	TRANSFORMER						



GRAPHIC #1

<END>

g01193330

ELECTRICAL AND STARTING SYSTEM

290-5529 WIRING GP-ENGINE

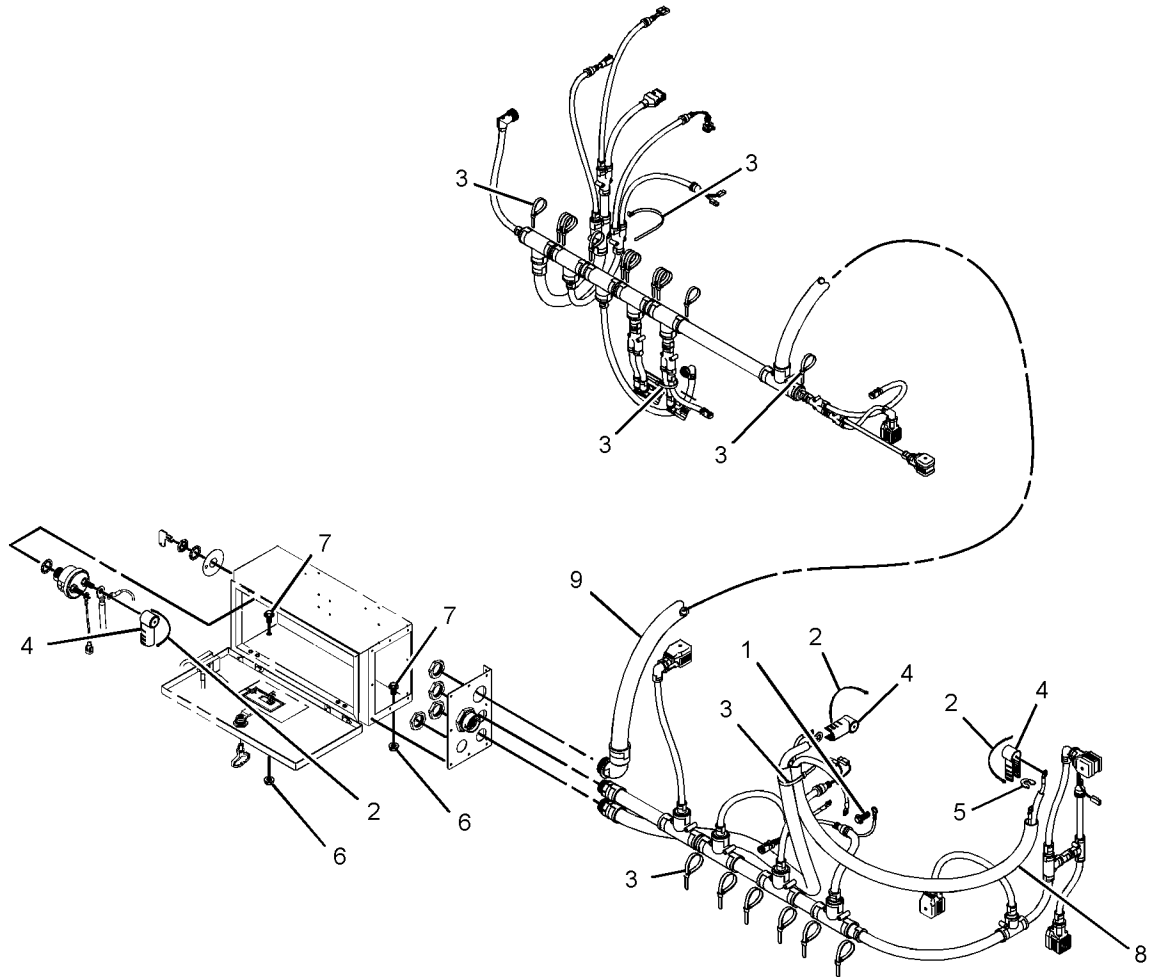
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1000, 1408

i02540688

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	2	1	195-4615	3	STRAP						
	3	1	290-1129	19	STRAP						
	4	1	290-5534	3	CAP						
	5	1	290-5535	1	INSERT						
	6	1	6I-0594	2	NUT (M10X1.15-THD)						
M	7	1	100-4830	2	BOLT (M10X1.5X20-MM)						
	8	1	290-5537	1	HARNESS AS-WIRING						
Y	9	1	290-5538	1	WIRING GP-ENGINE						258

M-METRIC PART
Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01277844

ELECTRICAL AND STARTING SYSTEM

290-5538 WIRING GP-ENGINE

S/N: L1K1-UP; S1M1-UP

PART OF 290-5529 WIRING GP-ENGINE
AN ATTACHMENT

SMCS-1000, 1408

i02623749

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	260-6714	14	SCREW-PAN HEAD (M4X0.7X12-MM)						
	2	1	9B-7233	15	LOCKWASHER						
	3	1	225-4956	3	RELAY-POWER						
	4	1	274-1239	1	CIRCUIT-BREAKER (10-AMPERE)						
	5	1	274-1240	1	CIRCUIT-BREAKER (80-AMPERE)						
Y	6	1	7N-0718	1	SWITCH GP-DISCONNECT						244
	7	1	196-0346	2	WASHER (3/8 FLAT)						
	8	1	195-4677	1	SCREW-MACHINE (M4X16-MM)						
M	9	1	095-0733	1	SCREW-MACHINE (M4X0.7X40-MM)						
	10	1	290-5533	1	KEY-LOCK (CIRCUIT BREAKER)						
	11	1	196-7691	4	SCREW (M3X16-MM)						
	12	1	199-1191	4	WASHER (M3 FLAT)						
	13	1	196-0327	4	LOCKNUT						
	14	1	274-1237	1	FUSE (5-AMPERE)						

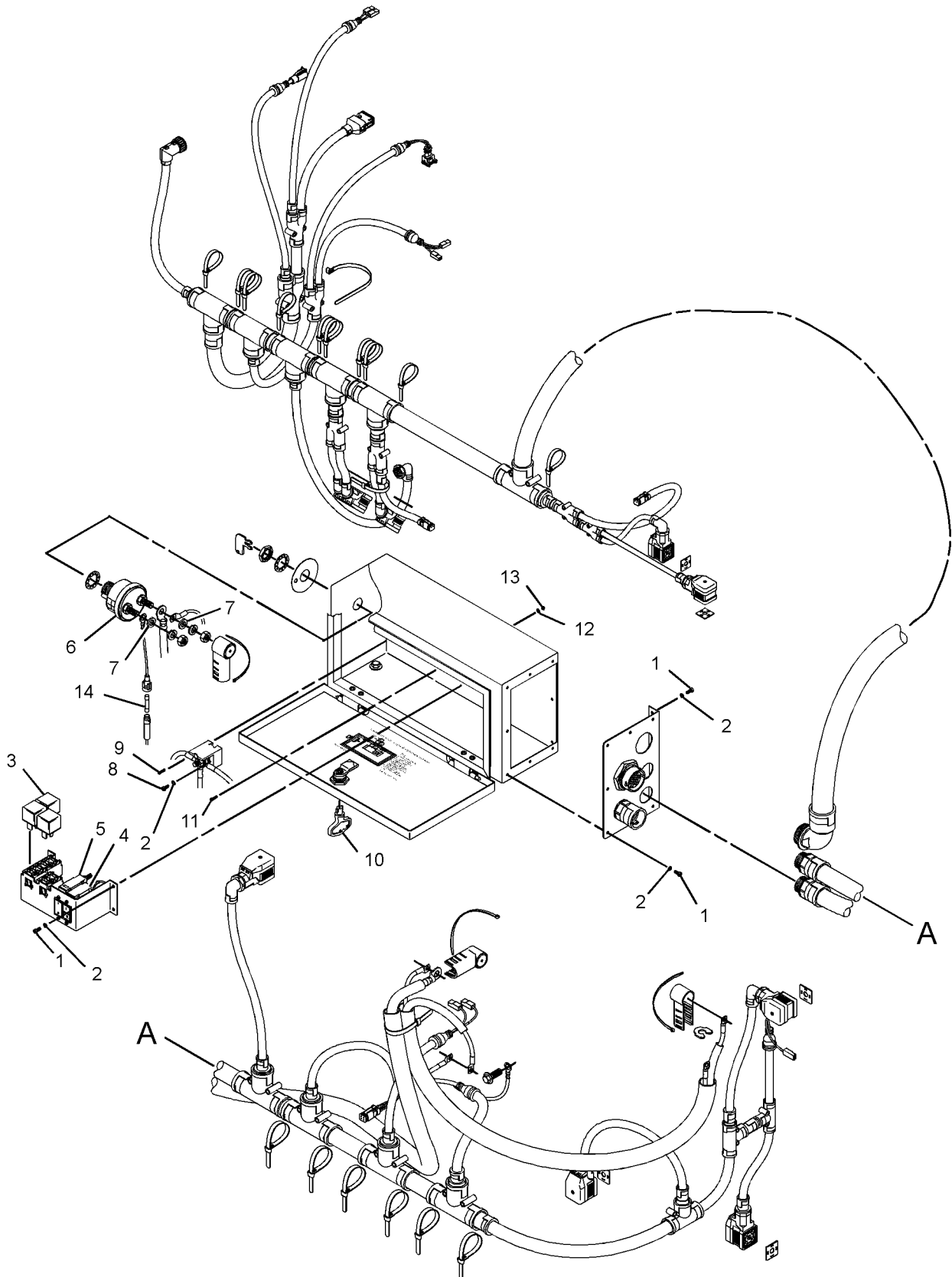
M-METRIC PART

Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

290-5538 WIRING GP-ENGINE (contd.)

i02623749



GRAPHIC #1

<END>

g01276096

ELECTRICAL AND STARTING SYSTEM

290-6411 WIRING GP-ENGINE

S/N: L1K1-UP; S1M1-UP

24-VOLT

AN ATTACHMENT

SMCS-1000, 1408

i02566186

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	2	1	195-4615	3	STRAP						
	3	1	290-1129	19	STRAP						
	4	1	290-5534	3	CAP						
	5	1	290-5535	1	INSERT						
	6	1	6I-0594	2	NUT (M10X1.15-THD)						
M	7	1	100-4830	2	BOLT (M10X1.5X20-MM)						
	8	1	290-6412	2	RESISTOR						
	9	1	290-5537	1	HARNESS AS-WIRING (CIRCUIT BREAKER)						
Y	10	1	290-6413	1	WIRING GP-ENGINE						262

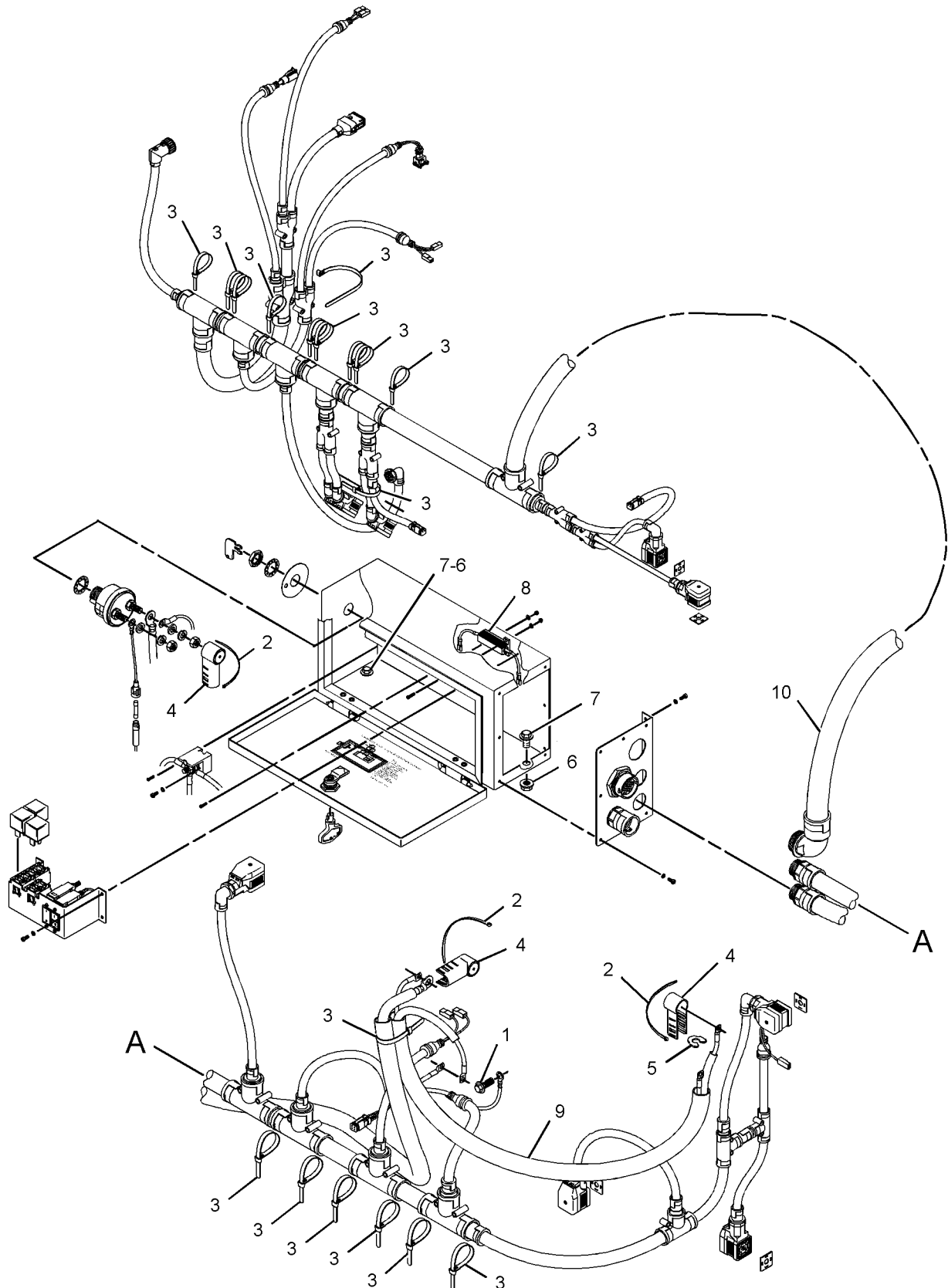
M-METRIC PART

Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

290-6411 WIRING GP-ENGINE (contd.)

i02566186



GRAPHIC #1

<END>

g01278668

ELECTRICAL AND STARTING SYSTEM

290-6413 WIRING GP-ENGINE

S/N: L1K1-UP; S1M1-UP
 PART OF 290-6411 WIRING GP-ENGINE
 AN ATTACHMENT

SMCS-1000, 1408

i02623750

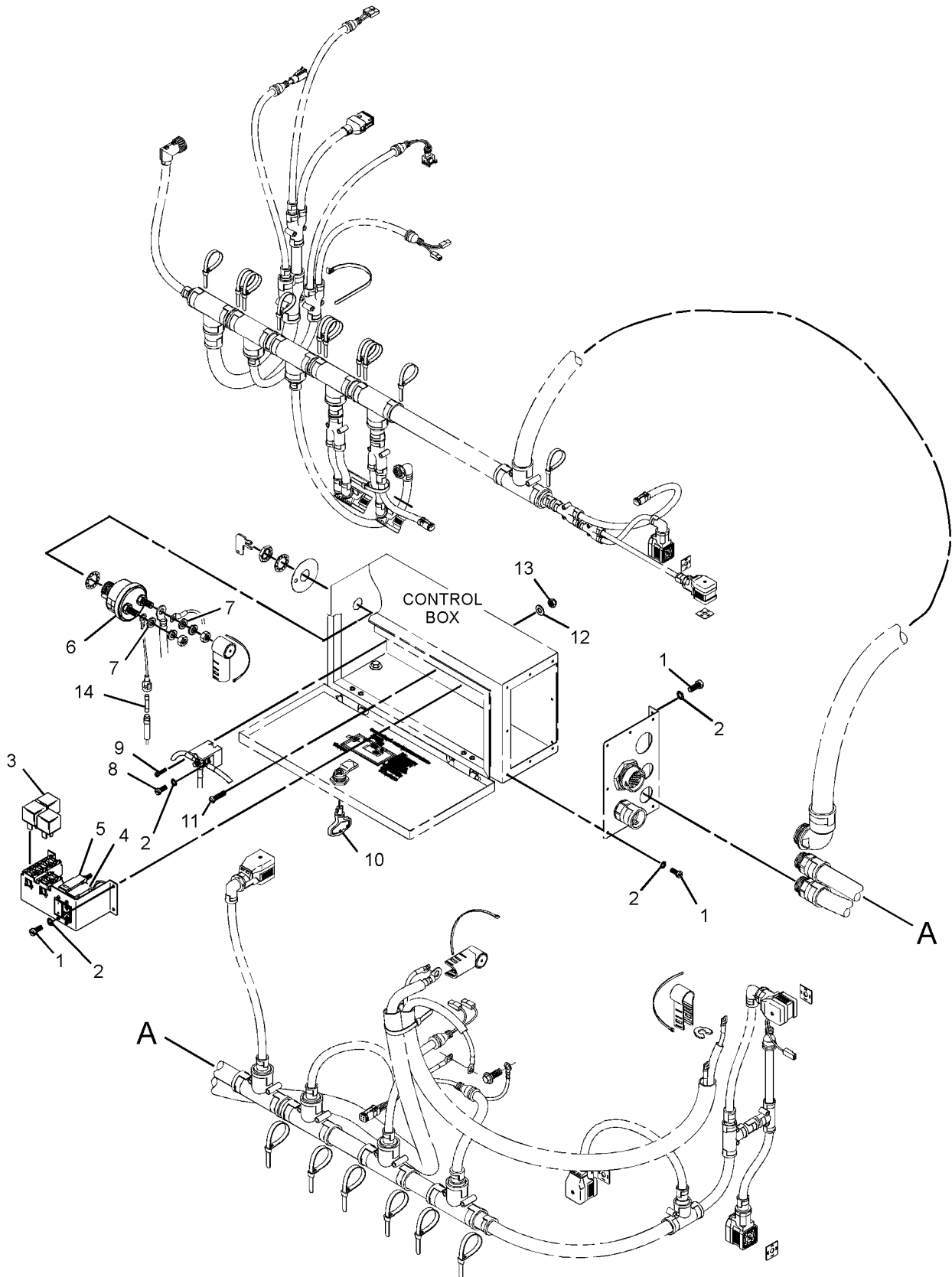
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	260-6714	14	SCREW-PAN HEAD (M4X0.7X12-MM)						
	2	1	9B-7233	15	LOCKWASHER						
	3	1	243-4632	3	RELAY-GLOW PLUG						
	4	1	274-1239	1	CIRCUIT-BREAKER (10-AMPERE)						
	5	1	274-1240	1	CIRCUIT-BREAKER (80-AMPERE)						
Y	6	1	7N-0718	1	SWITCH GP-DISCONNECT						244
	7	1	196-0346	2	WASHER (3/8 FLAT)						
	8	1	195-4677	1	SCREW-MACHINE (M4X16-MM)						
M	9	1	095-0733	1	SCREW-MACHINE (M4X0.7X40-MM)						
	10	1	290-5533	1	KEY-LOCK (CIRCUIT BREAKER)						
	11	1	196-7691	4	SCREW (M3X16-MM)						
	12	1	199-1191	4	WASHER (M3 FLAT)						
	13	1	196-0327	4	LOCKNUT						
	14	1	274-1237	1	FUSE (5-AMPERE)						

M-METRIC PART
 Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

290-6413 WIRING GP-ENGINE (contd.)

i02623750



GRAPHIC #1

<END>

g01276465

ELECTRICAL AND STARTING SYSTEM

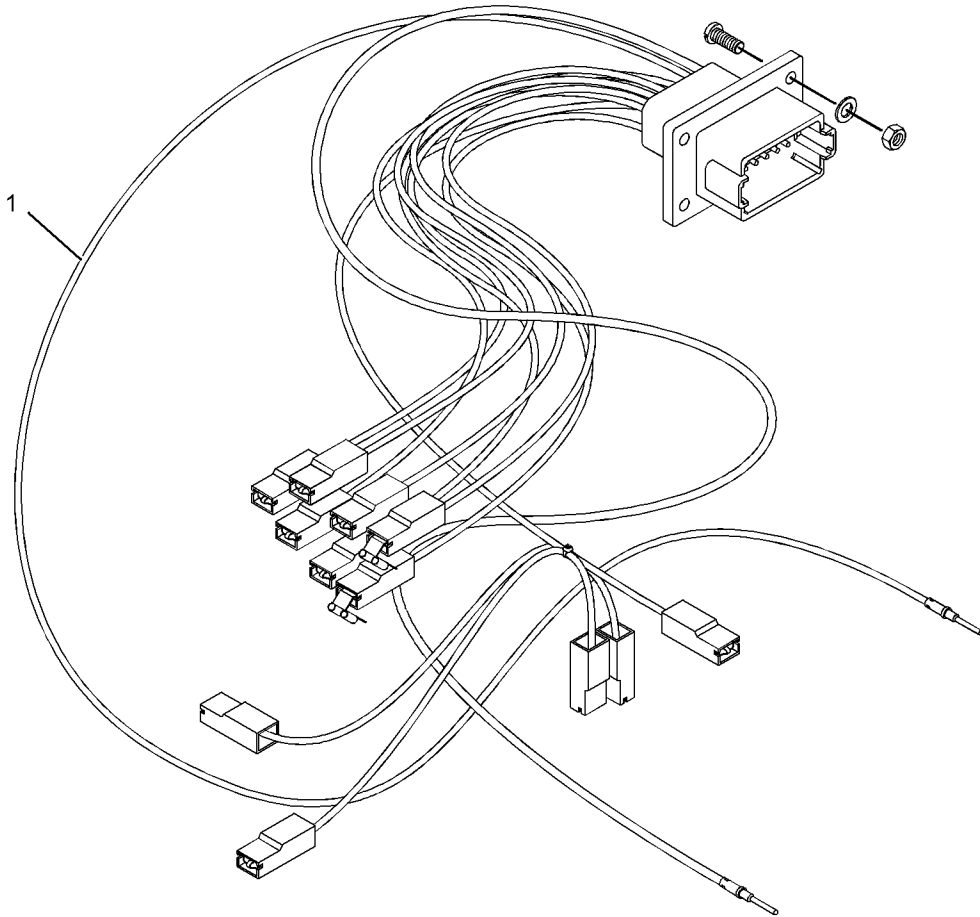
274-1989 WIRING GP-GENERATOR

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1404, 1408, 4459

i02319548

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-1991	1	HARNESS AS-ENGINE						



GRAPHIC #1

<END>

g01160630

ELECTRICAL AND STARTING SYSTEM

274-1241 WIRING GP-INSTR & IGNITION

S/N: L1K1-UP; S1M1-UP

12-VOLT

AN ATTACHMENT

SMCS-1408, 1550, 7451

i02623748

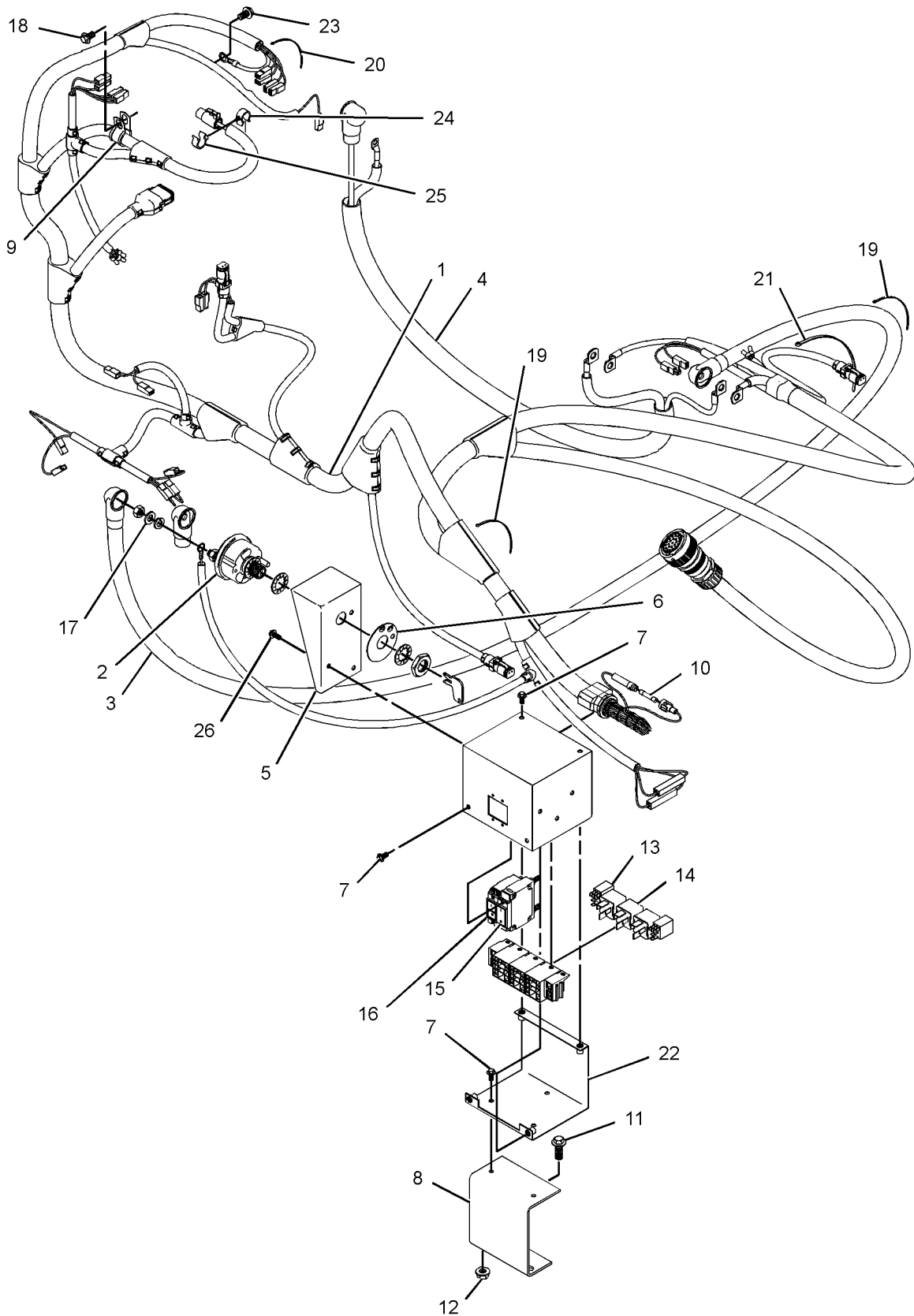
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-1233	1	HARNESS AS-ENGINE						
Y	2	1	7N-0718	1	SWITCH GP-DISCONNECT						244
	3	1	274-1232	1	HARNESS AS-WIRING						
	4	1	274-1231	1	HARNESS AS-WIRING						
	5	1	274-1230	1	BRACKET						
	6	1	144-3852	1	FILM-INFORMATION (BATTERY POWER DISCONNECT)						
	7	1	6I-0631	6	BOLT (M6X1X12-MM)						
	8	1	274-1229	1	BRACKET						
	9	1	196-7715	1	CLIP						
	10	1	274-1237	1	FUSE (5-AMPERE)						
M	11	1	6I-0654	2	BOLT (M10X1.5X25-MM)						
	12	1	6I-0594	2	NUT (M10X1.15-THD)						
	13	1	232-6567	2	RELAY AS (12-VOLT)						
	14	1	225-4956	3	RELAY-POWER						
	15	1	274-1239	1	CIRCUIT-BREAKER (10-AMPERE)						
	16	1	274-1240	1	CIRCUIT-BREAKER (80-AMPERE)						
	17	1	196-0346	1	WASHER (3/8 FLAT)						
	18	1	100-4458	1	BOLT (M8X1.25X14-MM)						
	19	1	195-4615	2	STRAP						
	20	1	196-0384	1	TIE-CABLE						
	21	1	8Q-2778	1	TIE-CABLE						
	22	1	274-1228	1	BRACKET						
	23	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	24	1	263-8001	1	CLIP						
	25	1	263-7999	1	CLIP						
	26	1	245-6541	2	BOLT						

M-METRIC PART
Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

274-1241 WIRING GP-INSTR & IGNITION (contd.)

i02623748



GRAPHIC #1

<END>

g01189982

ELECTRICAL AND STARTING SYSTEM

274-1871 WIRING GP-INSTR & IGNITION

S/N: L1K1-UP; S1M1-UP

24-VOLT

AN ATTACHMENT

SMCS-1408, 1550, 7451

i02623755

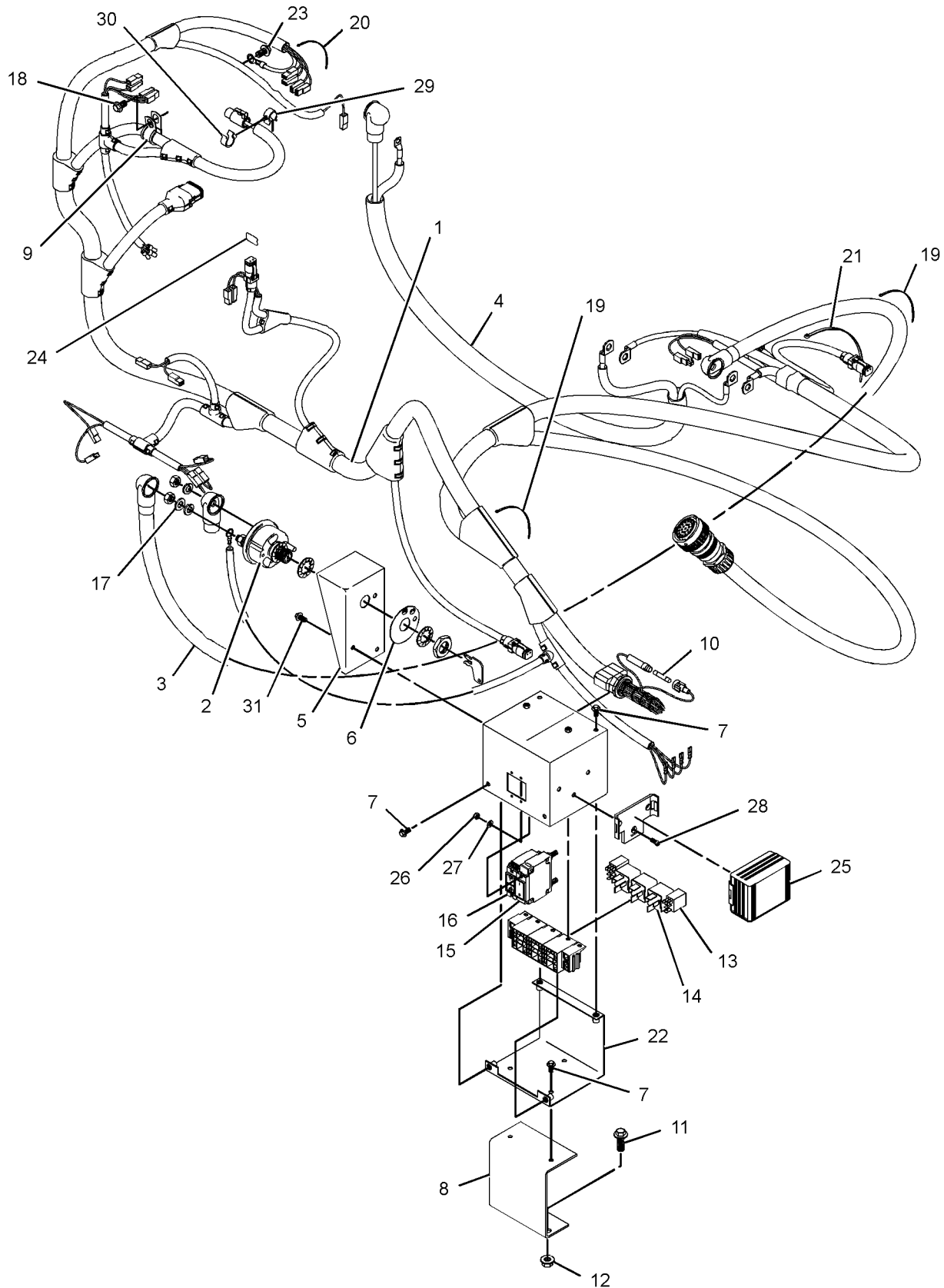
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-1233	1	HARNESS AS-ENGINE						
Y	2	1	7N-0718	1	SWITCH GP-DISCONNECT						244
	3	1	274-1232	1	HARNESS AS-WIRING						
	4	1	274-1231	1	HARNESS AS-WIRING						
	5	1	274-1230	1	BRACKET						
	6	1	144-3852	1	FILM-INFORMATION (BATTERY POWER DISCONNECT)						
	7	1	6I-0631	6	BOLT (M6X1X12-MM)						
	8	1	274-1229	1	BRACKET						
	9	1	196-7715	1	CLIP						
	10	1	274-1237	1	FUSE (5-AMPERE)						
M	11	1	6I-0654	2	BOLT (M10X1.5X25-MM)						
	12	1	6I-0594	2	NUT (M10X1.15-THD)						
	13	1	243-4628	2	RELAY (START, 24-VOLT)						
	14	1	243-4632	3	RELAY-GLOW PLUG						
	15	1	274-1239	1	CIRCUIT-BREAKER (10-AMPERE)						
	16	1	274-1240	1	CIRCUIT-BREAKER (80-AMPERE)						
	17	1	196-0346	1	WASHER (3/8 FLAT)						
	18	1	100-4458	1	BOLT (M8X1.25X14-MM)						
	19	1	195-4615	2	STRAP						
	20	1	196-0384	1	TIE-CABLE						
	21	1	8Q-2778	1	TIE-CABLE						
	22	1	274-1228	1	BRACKET						
	23	1	6I-4200	1	BOLT (M10X1.5X16-MM)						
	24	1	169-2876	1	FILM-IDENTIFICATION (12-VOLT)						
	25	1	272-0506	1	CONVERTER AS						
	26	1	196-7708	3	LOCKNUT						
	27	1	196-7728	3	WASHER (5.1X11X1.3-MM THK)						
	28	1	193-5189	3	SCREW (M5X0.08X12-MM)						
	29	1	263-8001	1	CLIP						
	30	1	263-7999	1	CLIP						
	31	1	245-6541	2	BOLT						

M-METRIC PART
Y-SEPARATE ILLUSTRATION

ELECTRICAL AND STARTING SYSTEM

274-1871 WIRING GP-INSTR & IGNITION (contd.)

i02623755



GRAPHIC #1

<END>

g01189998

ELECTRICAL AND STARTING SYSTEM

273-2451 WIRING GP-PANEL

S/N: L1K1-UP; S1M1-UP

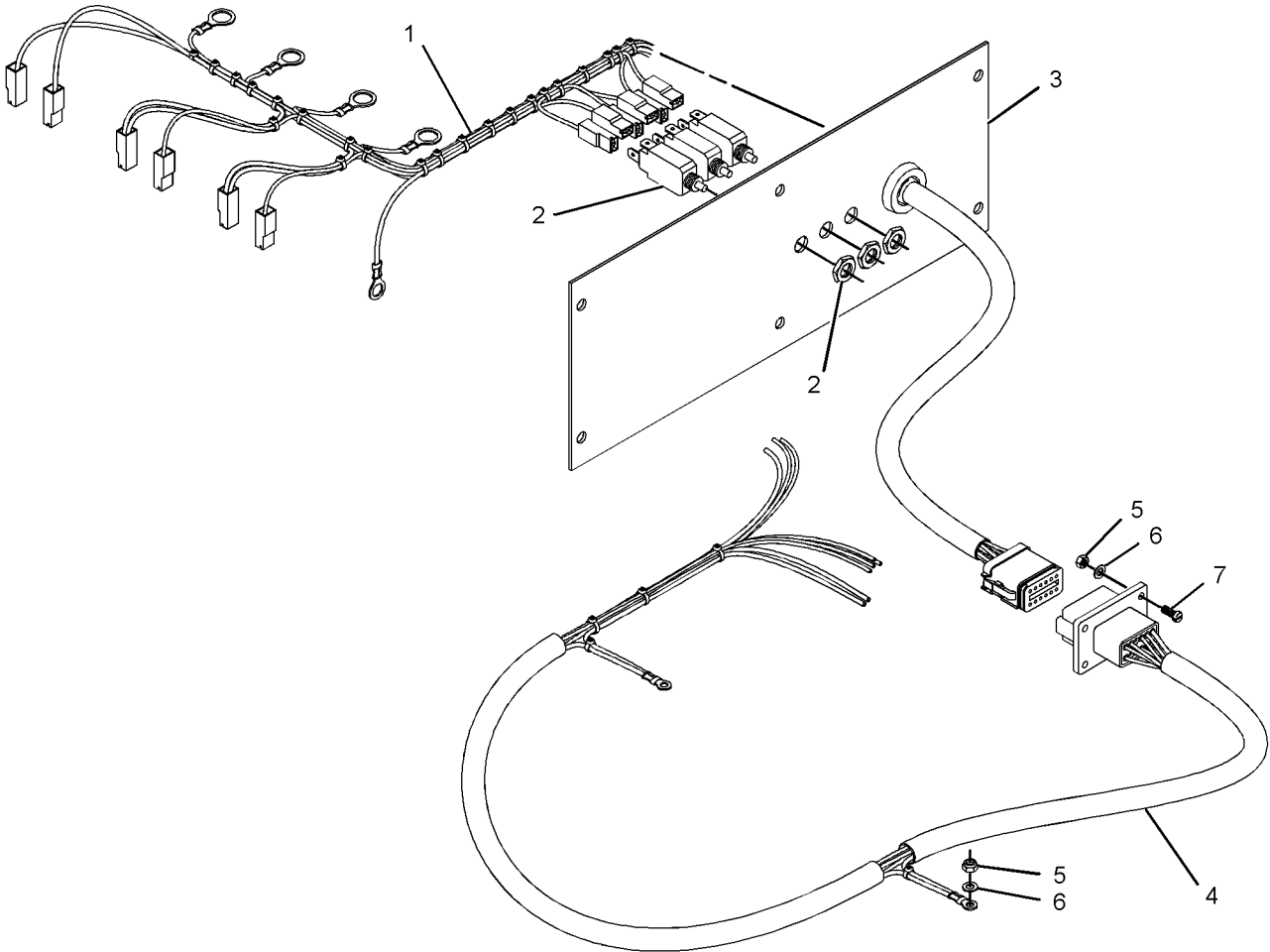
FOR USE WITH PREMIUM CONTROL PANELS
AN ATTACHMENT

SMCS-4459

i02421636

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-2452	1	HARNESS AS-PANEL						
	2	1	215-1262	3	FUSE (RESET BUTTON) (6.5-AMPERE)						
	3	1	273-2461	1	PLATE						
	4	1	273-2453	1	HARNESS AS-PANEL						
M	5	1	178-9983	5	LOCKNUT (M4X0.7-THD)						
	6	1	196-0347	5	WASHER (4.3X8.7X0.8-MM THK)						
	7	1	214-9193	4	SCREW (M4X16-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01263961

ELECTRICAL AND STARTING SYSTEM

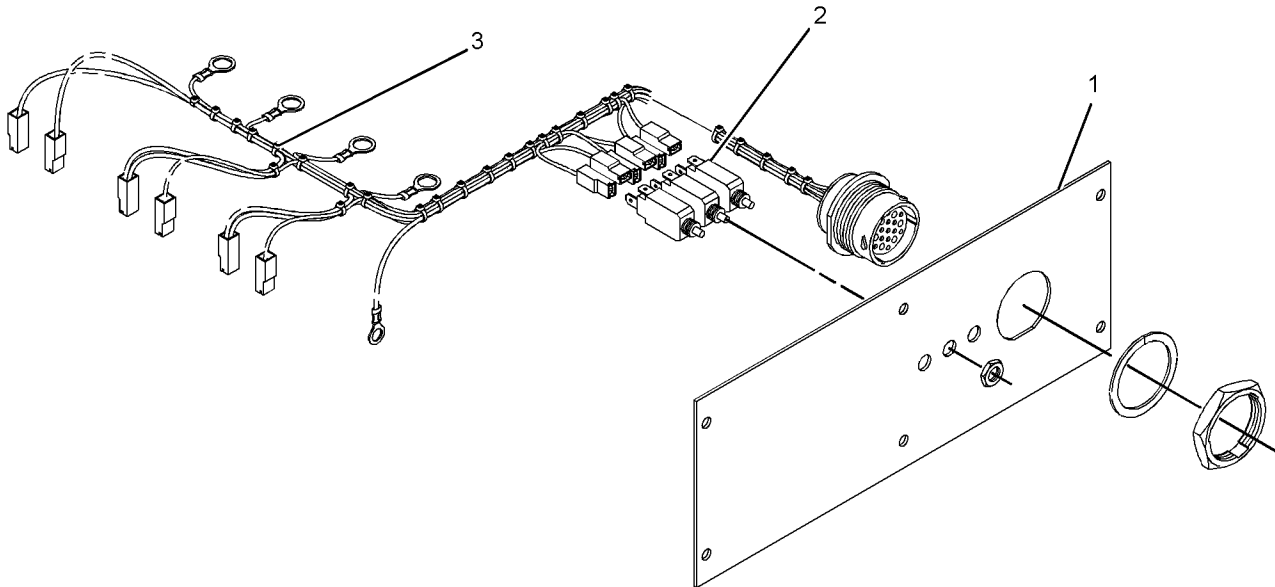
289-8296 WIRING GP-PANEL

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4459

i02614832

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	289-8298	1	PLATE						
	2	1	215-1262	3	FUSE (RESET BUTTON) (6.5-AMPERE)						
	3	1	289-8297	1	HARNESS AS-PANEL						



GRAPHIC #1

<END>

g01278999

OPERATOR STATION

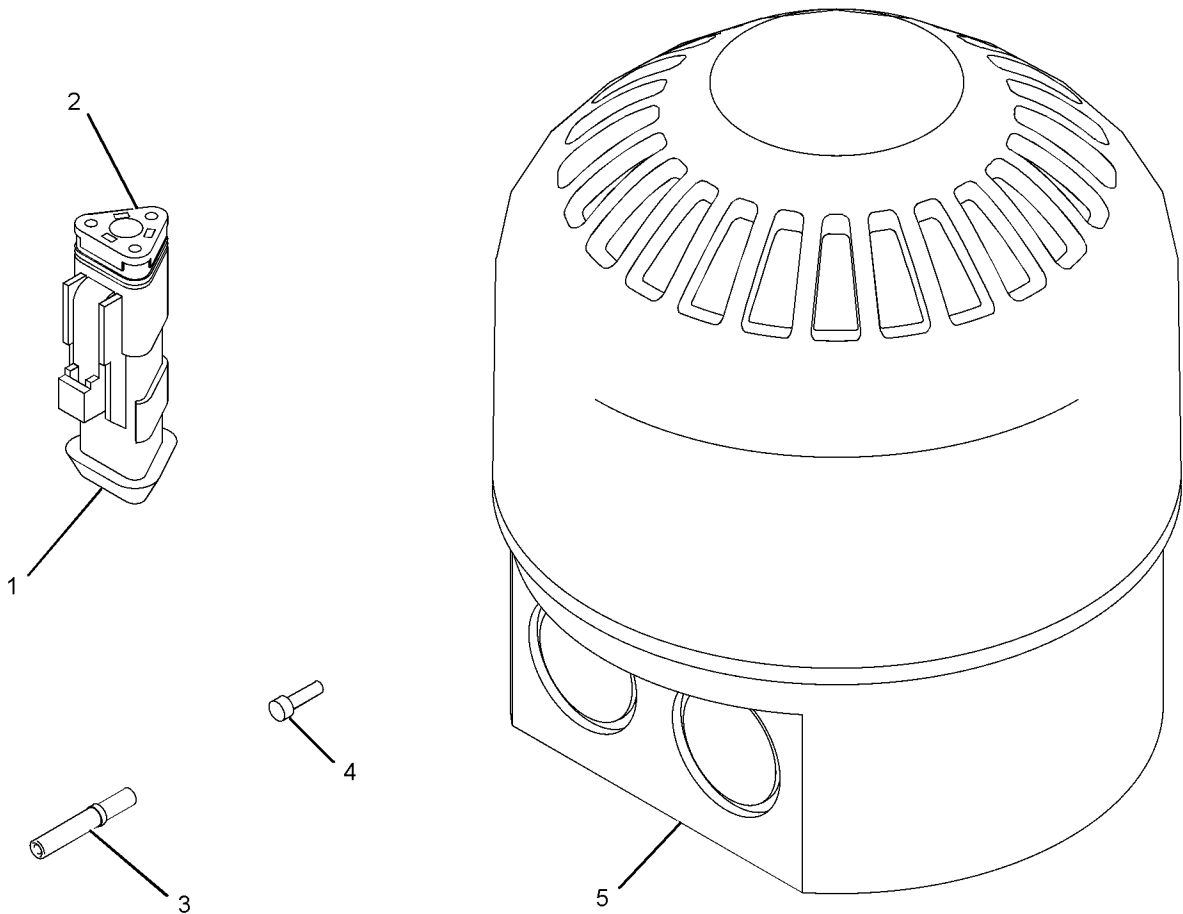
288-6468 ALARM GP

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-7400, 7407

i02529742

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	174-0503	1	KIT-CONNECTING PLUG (3-PIN)						
					(INCLUDES PLUG AS AND WEDGE)						
	2	1	3E-3371	1	WEDGE-RECEPTACLE LOCK (3-PIN)						
	3	1	186-3736	2	SOCKET-CONNECTOR (16-GA TO 18-GA)						
	4	1	8T-8737	1	PLUG-SEAL						
	5	1	288-6466	1	HORN						



GRAPHIC #1

<END>

g01270053

OPERATOR STATION

272-0505 CONVERTER GP-ELECTRICAL

S/N: L1K1-UP; S1M1-UP

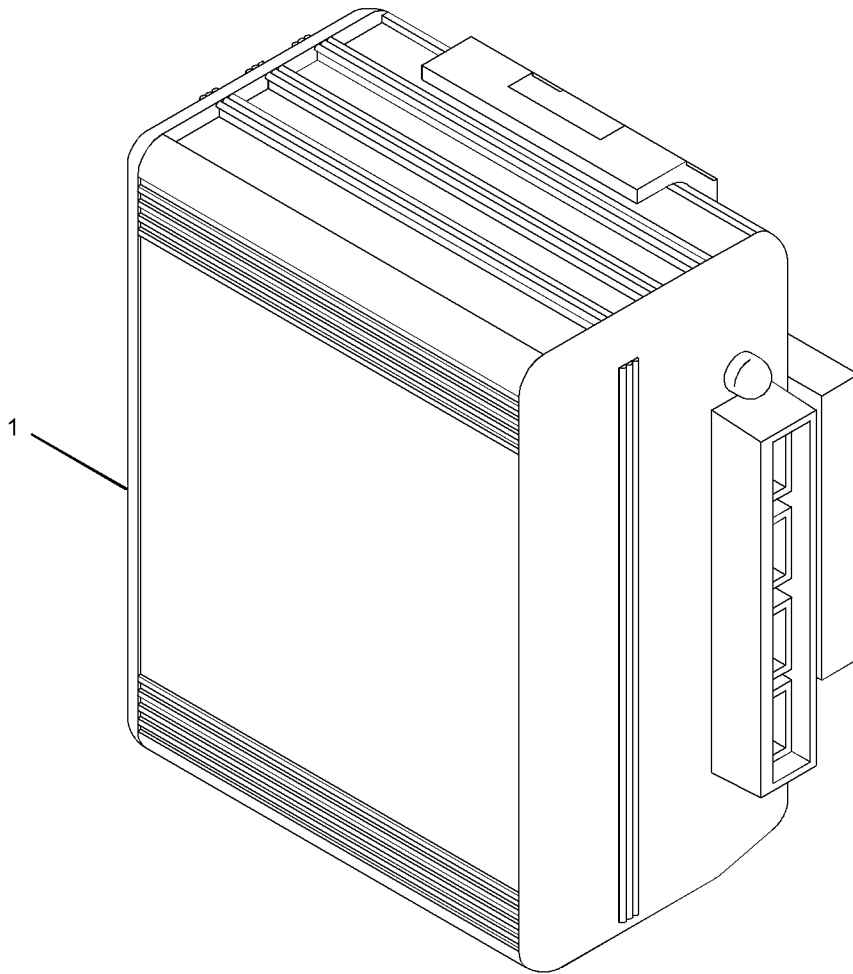
24-VOLT

AN ATTACHMENT

SMCS-1421

i02308842

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	272-0506	1	CONVERTER AS						



GRAPHIC #1

<END>

g01157372

OPERATOR STATION

272-1568 MOUNTING GP-CONTROL

S/N: S1M1-UP

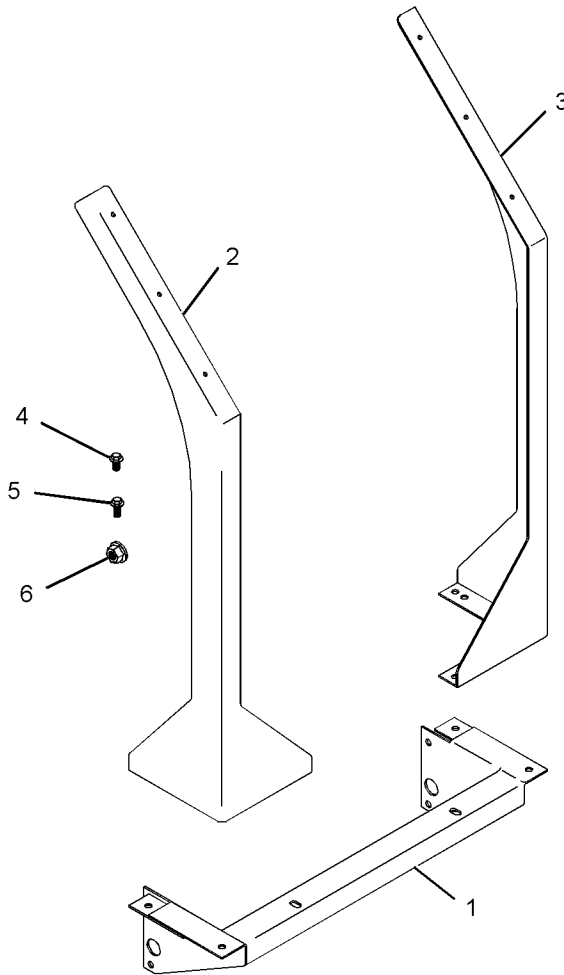
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY
AN ATTACHMENT

SMCS-7451

i02308831

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	272-1567	1	BRACKET						
	2	1	204-9535	1	SUPPORT - PANEL						
	3	1	204-9534	1	SUPPORT - PANEL						
M	4	1	100-4830	8	BOLT (M10X1.5X20-MM)						
M	5	1	6I-0654	2	BOLT (M10X1.5X25-MM)						
	6	1	6I-0594	10	NUT (M10X1.15-THD)						

M-METRIC PART



GRAPHIC #1

<END>

g01159412

OPERATOR STATION

272-9238 MOUNTING GP-CONTROL PANEL

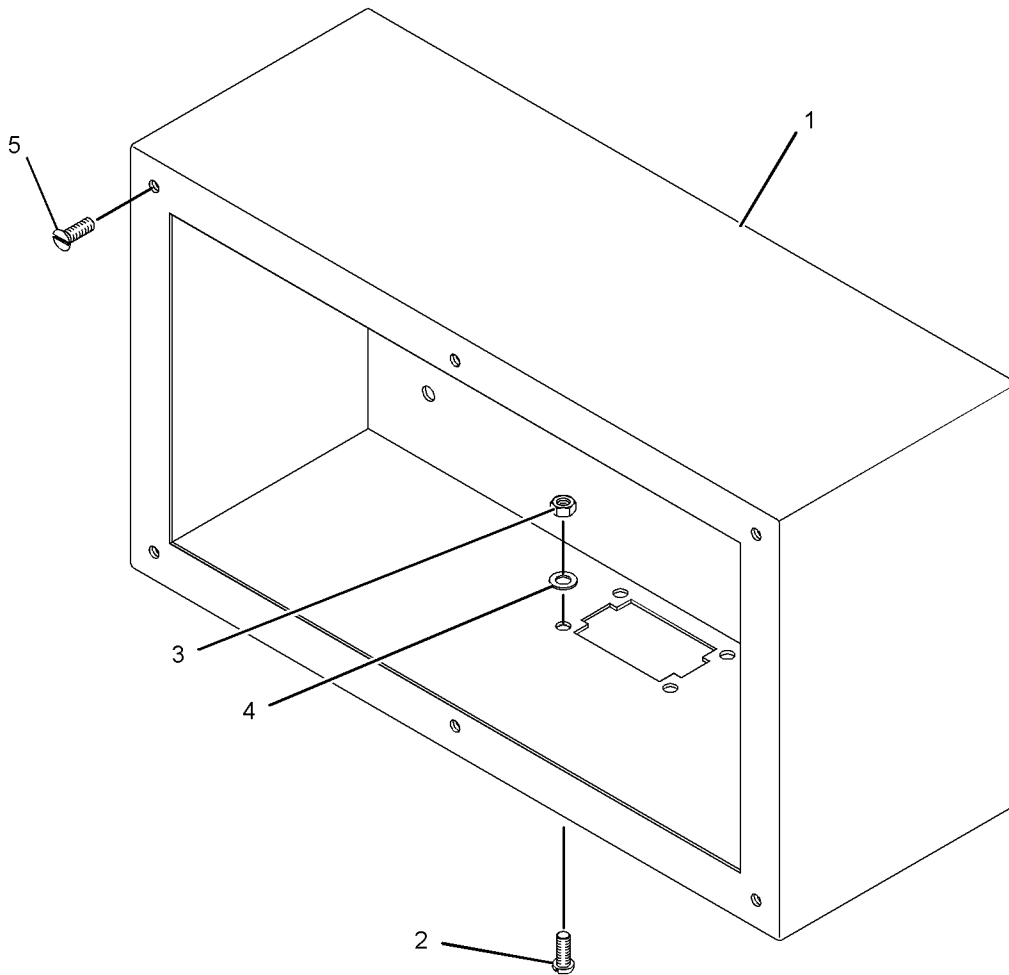
S/N: L1K1-UP; S1M1-UP
 FOR USE WITH REMOTE INSTRUMENT PANELS
 AN ATTACHMENT

SMCS-7451

i02305896

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	272-9237	1	BRACKET AS						
	2	1	214-9193	4	SCREW (M4X16-MM)						
	3	1	260-6684	4	NUT (M4X0.7-THD)						
	4	1	196-0347	4	WASHER (4.3X8.7X0.8-MM THK)						
M	5	1	095-0755	6	SCREW-MACHINE (M4X0.07X12-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01155711

OPERATOR STATION

273-2054 MOUNTING GP-CONTROL PANEL

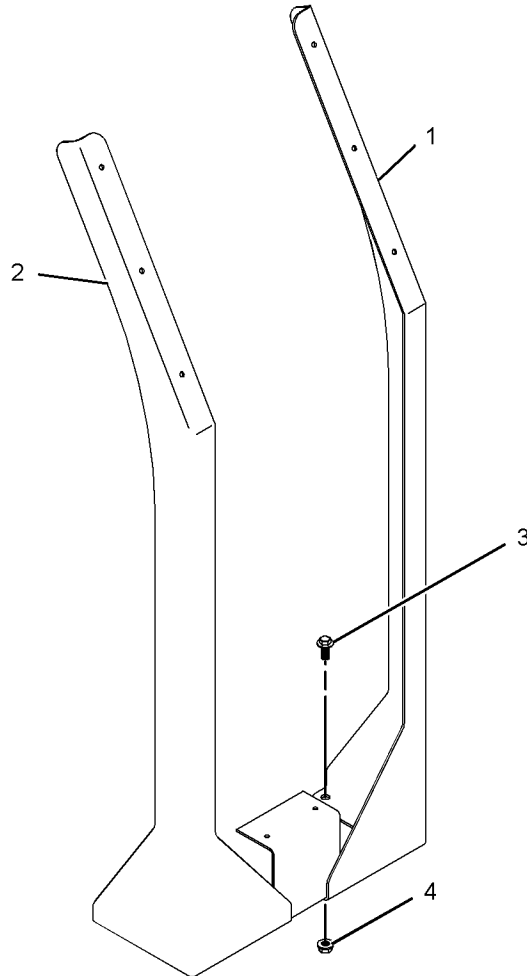
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-7451

i02319557

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	250-1025	1	SUPPORT-PANEL (RH)						
	2	1	250-1026	1	SUPPORT-PANEL (LH)						
M	3	1	100-4830	4	BOLT (M10X1.5X20-MM)						
	4	1	6I-0594	4	NUT (M10X1.15-THD)						

M-METRIC PART



GRAPHIC #1

<END>

g01160024

OPERATOR STATION

274-3666 MOUNTING GP-CONTROL PANEL

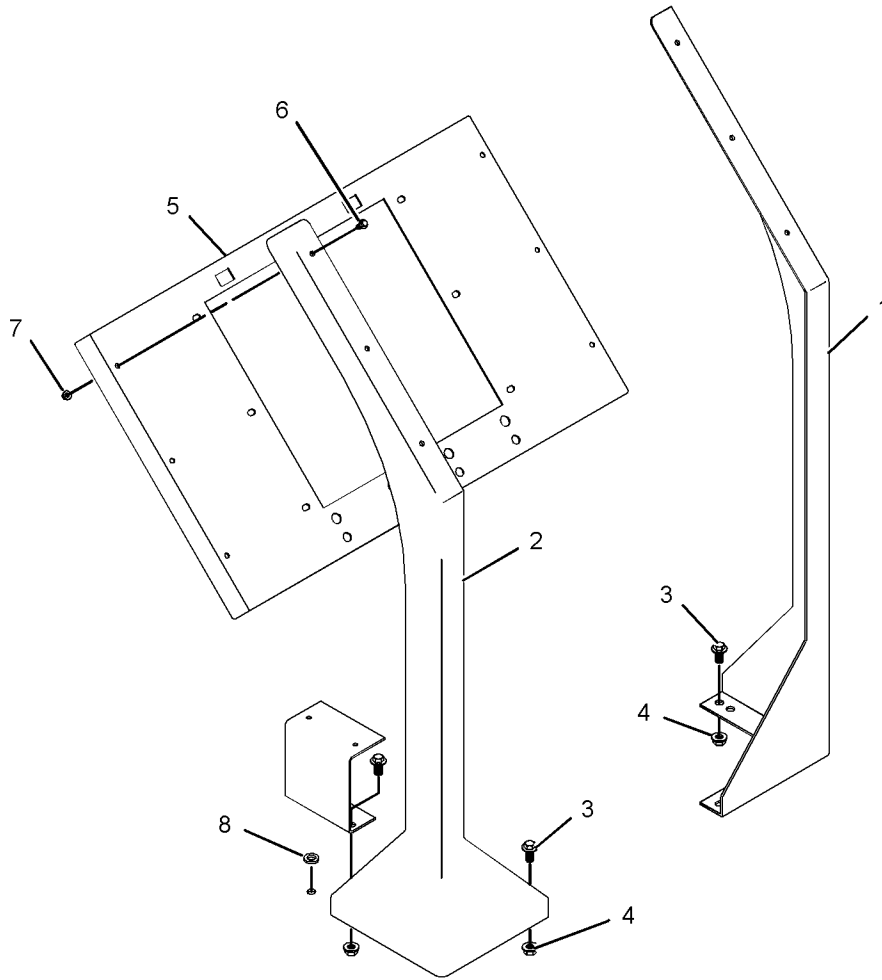
S/N: L1K1-UP; S1M1-UP
FOR USE WITH NATURALLY ASPIRATED ENGINES
AN ATTACHMENT

SMCS-7451

i02319551

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	250-1025	1	SUPPORT-PANEL (RH)						
	2	1	250-1026	1	SUPPORT-PANEL (LH)						
M	3	1	100-4830	5	BOLT (M10X1.5X20-MM)						
	4	1	6I-0594	5	NUT (M10X1.15-THD)						
	5	1	205-1118	1	PLATE						
	6	1	6I-0631	6	BOLT (M6X1X12-MM)						
	7	1	6I-0918	6	NUT (M6-THD)						
	8	1	263-5191	1	SPACER (11X19X3-MM THK)						

M-METRIC PART



GRAPHIC #1

<END>

g01160621

OPERATOR STATION

274-3667 MOUNTING GP-CONTROL PANEL

S/N: S1M1-UP

CANNOT BE USED WITH NATURALLY ASPIRATED ENGINES
AN ATTACHMENT

SMCS-7451

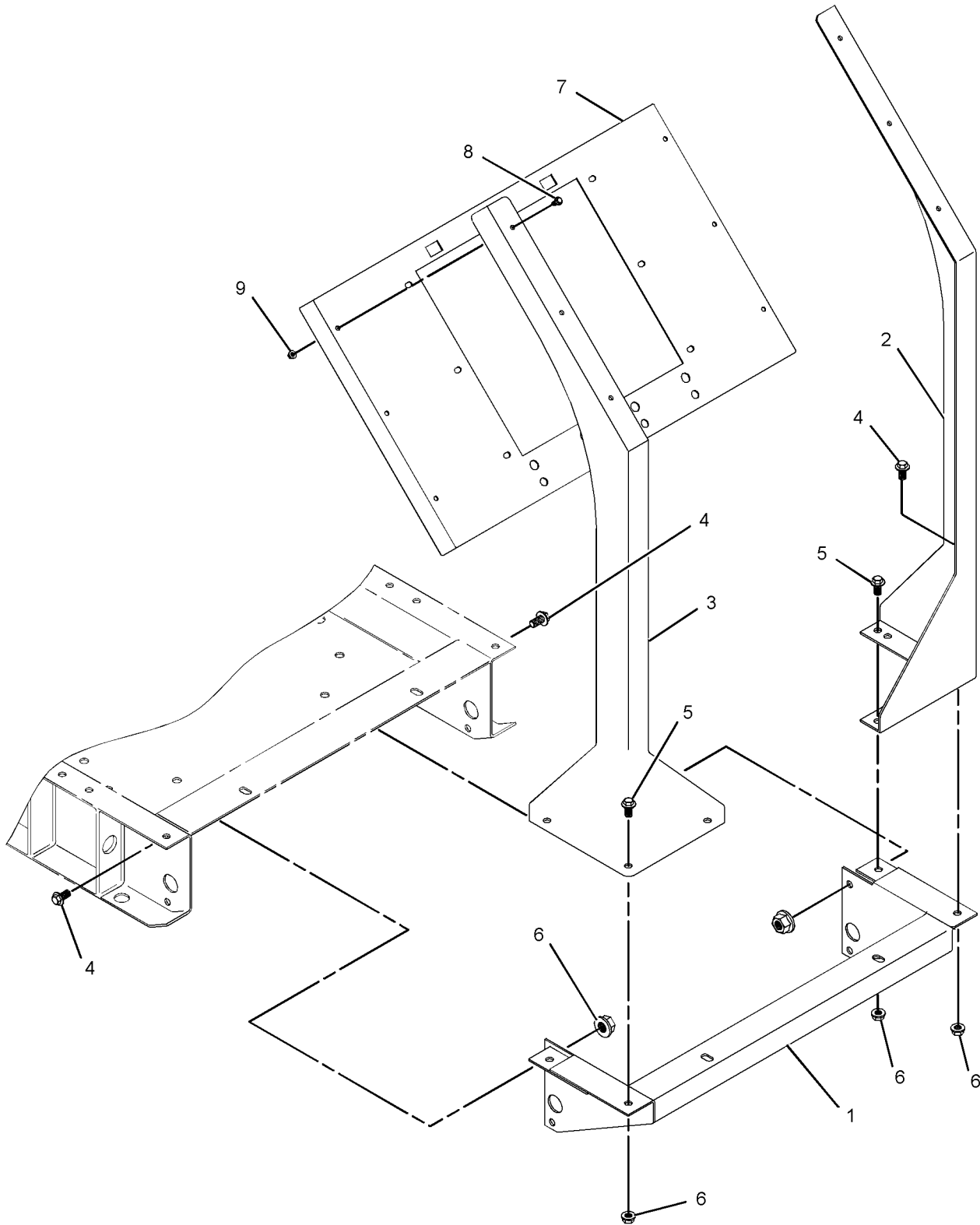
i02319553

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	274-3668	1	BRACKET						
	2	1	250-1025	1	SUPPORT-PANEL (RH)						
	3	1	250-1026	1	SUPPORT-PANEL (LH)						
M	4	1	100-4830	8	BOLT (M10X1.5X20-MM)						
M	5	1	6I-0654	2	BOLT (M10X1.5X25-MM)						
	6	1	6I-0594	10	NUT (M10X1.15-THD)						
	7	1	205-1118	1	PLATE						
	8	1	6I-0631	6	BOLT (M6X1X12-MM)						
	9	1	6I-0918	6	NUT (M6-THD)						
M-METRIC PART											

OPERATOR STATION

274-3667 MOUNTING GP-CONTROL PANEL (contd.)

i02319553



GRAPHIC #1

<END>

g01160619

OPERATOR STATION

271-2725 PANEL AS-CONTROL

S/N: L1K1-UP; S1M1-UP

24-VOLT

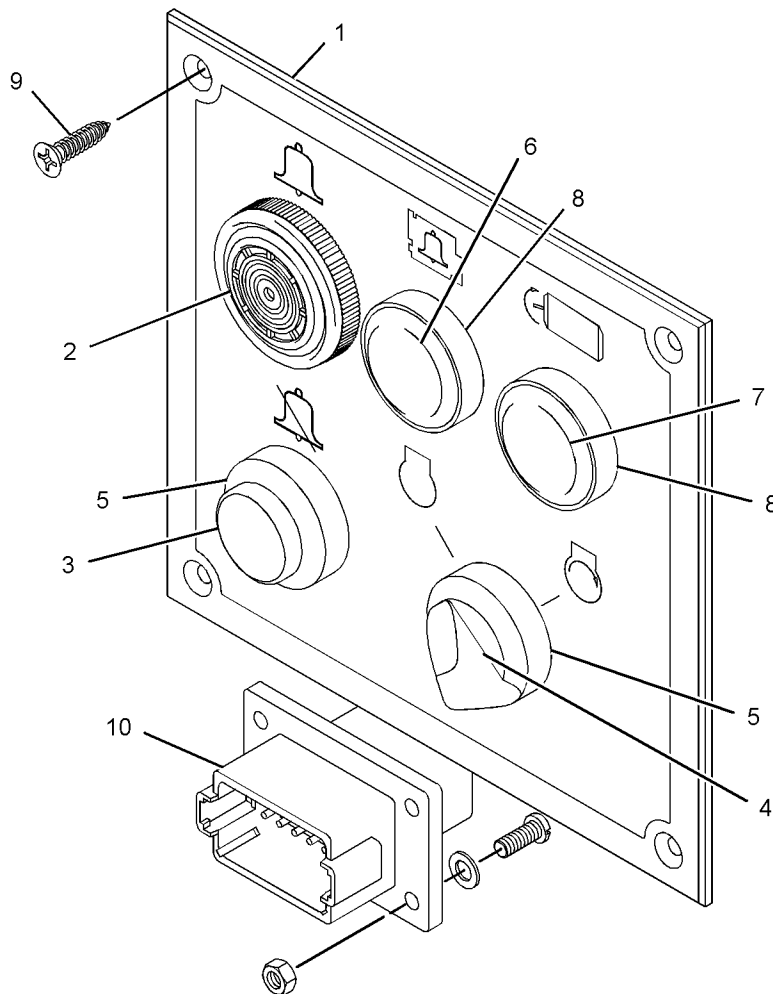
PART OF 271-2727 PANEL GP-CONTROL
AN ATTACHMENT

SMCS-7451

i02624435

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	271-2691	1	PANEL - INSTRUMENT						
	2	1	256-6504	1	HORN						
	3	1	271-2702	1	BUTTON						
	4	1	271-2703	1	SWITCH (START, STOP)						
	5	1	271-2704	2	CONTACT AS-ELECTRICAL						
	6	1	271-2721	1	INDICATOR (RED) (ALARM)						
	7	1	271-2722	1	INDICATOR (GREEN) (ENGINE RUNNING)						
	8	1	271-2723	2	LAMP (24-VOLT, 2-WATT)						
	9	1	196-7701	4	SCREW (NO 8X0.75-IN)						
	10	1	102-8801	1	KIT-RECEPTACLE (12-PIN)						

(INCLUDES RECEPTACLE AS AND WEDGE)



GRAPHIC #1

<END>

g01162372

OPERATOR STATION

271-2726 PANEL AS-CONTROL

S/N: L1K1-UP; S1M1-UP

12-VOLT

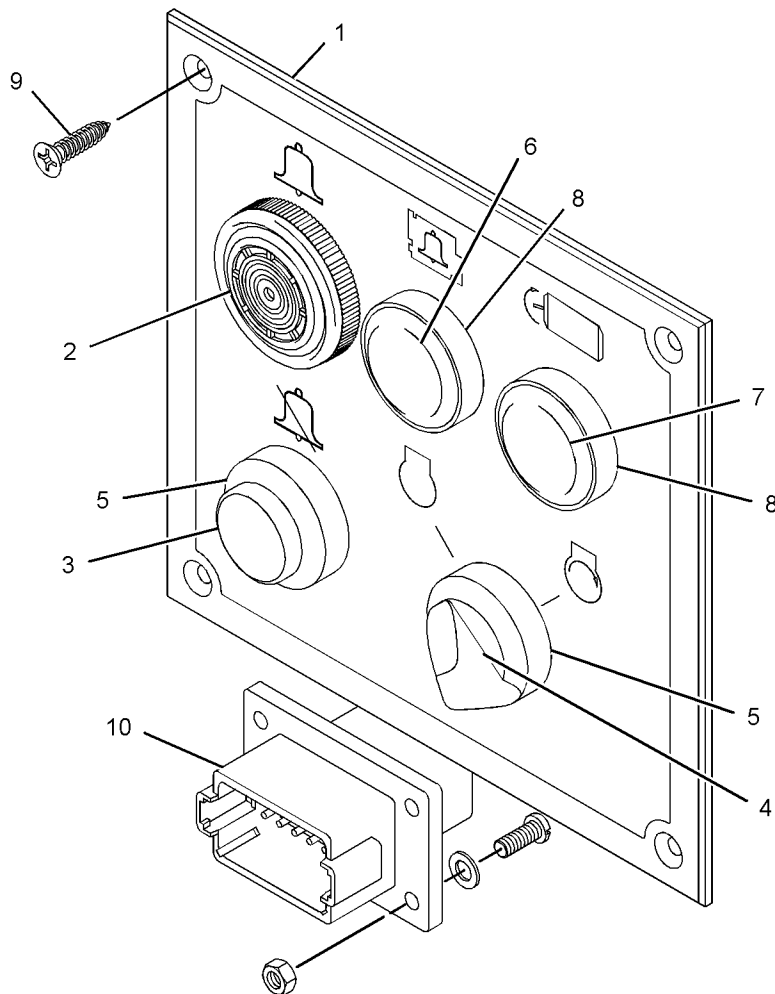
PART OF 271-2728 PANEL GP-CONTROL
AN ATTACHMENT

SMCS-7451

i02624442

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	271-2691	1	PANEL - INSTRUMENT						
	2	1	256-6504	1	HORN						
	3	1	271-2702	1	BUTTON						
	4	1	271-2703	1	SWITCH (START, STOP)						
	5	1	271-2704	2	CONTACT AS-ELECTRICAL						
	6	1	271-2721	1	INDICATOR (RED) (ALARM)						
	7	1	271-2722	1	INDICATOR (GREEN) (ENGINE RUNNING)						
	8	1	271-2724	2	LAMP (12-VOLT, 2-WATT)						
	9	1	196-7701	4	SCREW (NO 8X0.75-IN)						
	10	1	102-8801	1	KIT-RECEPTACLE (12-PIN)						

(INCLUDES RECEPTACLE AS AND WEDGE)



GRAPHIC #1

<END>

g01156780

OPERATOR STATION

271-3526 PANEL AS-CONTROL

S/N: L1K1-UP; S1M1-UP

12-VOLT

PART OF 271-3522 PANEL GP-CONTROL

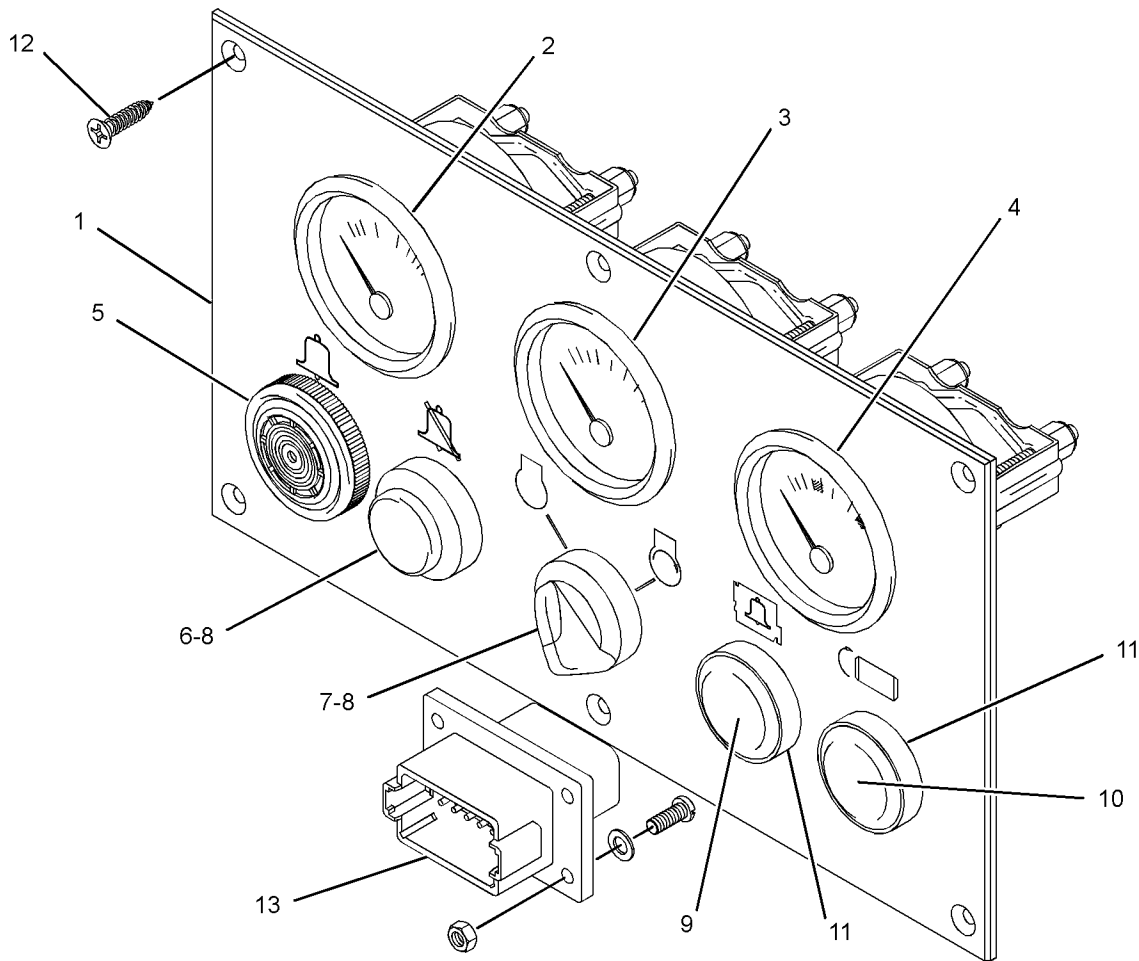
AN ATTACHMENT

SMCS-7451

i02624443

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	271-3525	1	PANEL-INSTRUMENT						
	2	1	231-5914	1	GAUGE-PRESSURE (12-VOLT) (ENGINE OIL)						
	3	1	231-5915	1	GAUGE-TEMPERATURE (12-VOLT) (WATER)						
	4	1	231-5916	1	VOLTMETER GP (12-VOLT)						
	5	1	256-6504	1	HORN						
	6	1	271-2702	1	BUTTON						
	7	1	271-2703	1	SWITCH (START, STOP)						
	8	1	271-2704	2	CONTACT AS-ELECTRICAL						
	9	1	271-2721	1	INDICATOR (RED) (ALARM)						
	10	1	271-2722	1	INDICATOR (GREEN) (ENGINE RUNNING)						
	11	1	271-2724	2	LAMP (12-VOLT, 2-WATT)						
	12	1	196-7701	6	SCREW (NO 8X0.75-IN)						
	13	1	102-8801	1	KIT-RECEPTACLE (12-PIN)						

(INCLUDES RECEPTACLE AS AND WEDGE)



GRAPHIC #1

<END>

g01159032

OPERATOR STATION

271-3527 PANEL AS-CONTROL

S/N: L1K1-UP; S1M1-UP

24-VOLT

PART OF 271-3523 PANEL GP-CONTROL

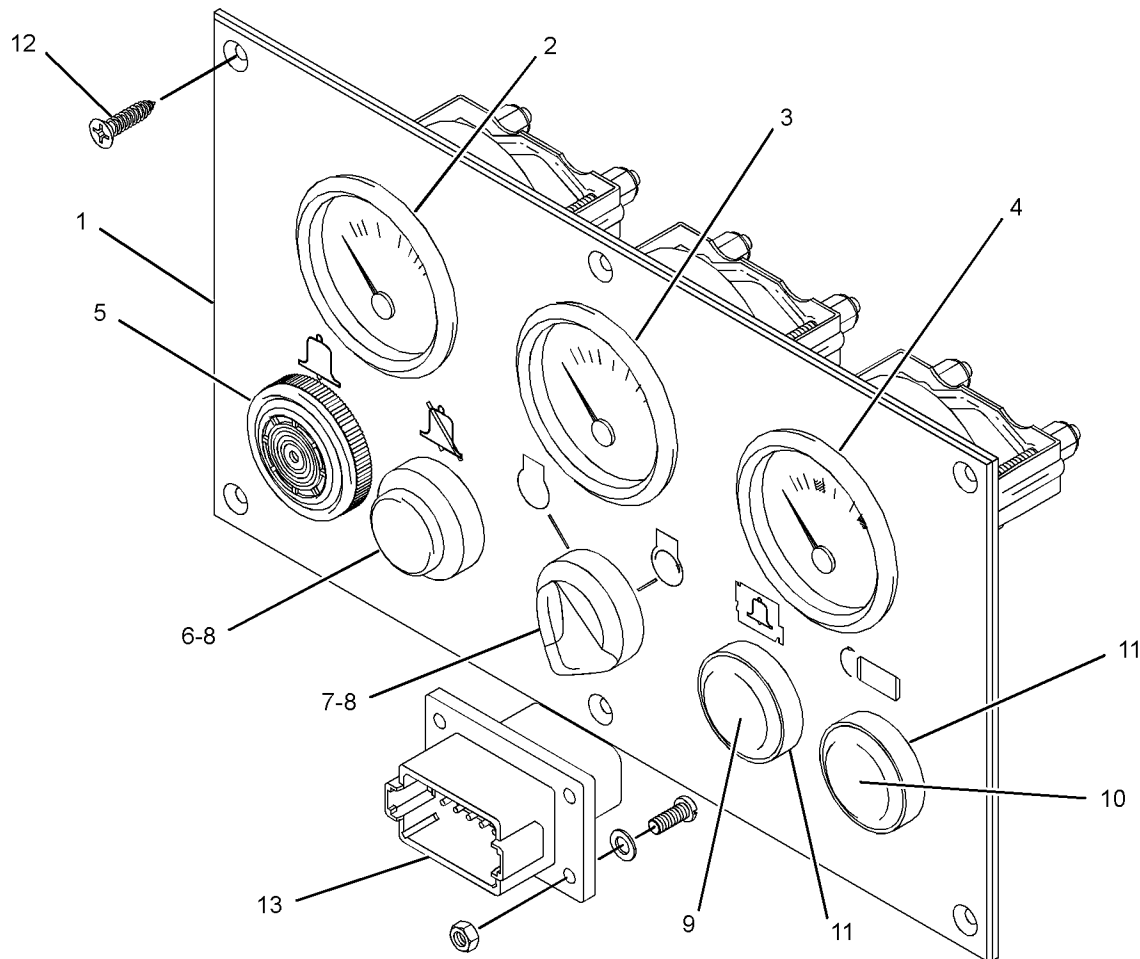
AN ATTACHMENT

SMCS-7451

i02624444

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	271-3525	1	PANEL-INSTRUMENT						
	2	1	243-3851	1	GAUGE-OIL PRESS (24-VOLT) (ENGINE)						
	3	1	243-3852	1	GAUGE-WATER TEMPERATURE (24-VOLT)						
	4	1	243-3853	1	VOLTMETER GP (24-VOLT)						
	5	1	256-6504	1	HORN						
	6	1	271-2702	1	BUTTON						
	7	1	271-2703	1	SWITCH (START, STOP)						
	8	1	271-2704	2	CONTACT AS-ELECTRICAL						
	9	1	271-2721	1	INDICATOR (RED) (ALARM)						
	10	1	271-2722	1	INDICATOR (GREEN) (ENGINE RUNNING)						
	11	1	271-2723	2	LAMP (24-VOLT, 2-WATT)						
	12	1	196-7701	6	SCREW (NO 8X0.75-IN)						
	13	1	102-8801	1	KIT-RECEPTACLE (12-PIN)						

(INCLUDES RECEPTACLE AS AND WEDGE)



GRAPHIC #1

<END>

g01159032

OPERATOR STATION

273-5783 PANEL AS-ELECTRICAL

S/N: L1K1-UP; S1M1-UP

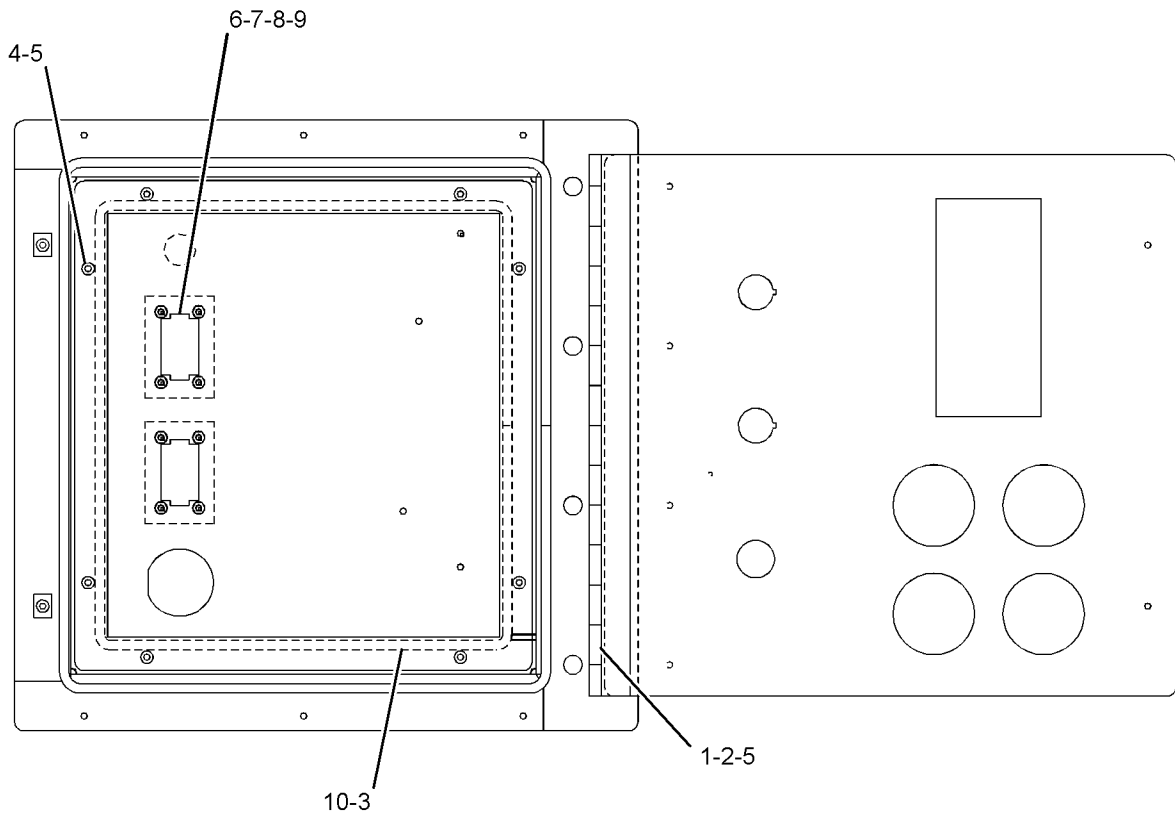
PART OF 273-6214, 273-6381 PANEL GP-ELECTRONIC
AN ATTACHMENT

SMCS-1417, 7451

i02312110

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-5784	1	DOOR AS-ACCESS						
	2	1	205-3657	1	HINGE AS						
		1	203-5398	4	INSERT-THREADED (M5X0.8-THD)						
	3	1	273-4935	1	PANEL AS-ELECTRICAL						
	4	1	273-4937	1	PLATE						
	5	1	245-6541	18	BOLT						
M	6	1	178-9983	4	LOCKNUT (M4X0.7-THD)						
	7	1	196-0347	4	WASHER (4.3X8.7X0.8-MM THK)						
	8	1	214-9193	4	SCREW (M4X16-MM)						
	9	1	273-4359	1	PLATE						
	10	1	121-4721	1	STRIP-DUST SEAL						

M-METRIC PART



GRAPHIC #1

<END>

g01160026

OPERATOR STATION

273-4349 PANEL AS-ELECTRONIC

S/N: L1K1-UP; S1M1-UP

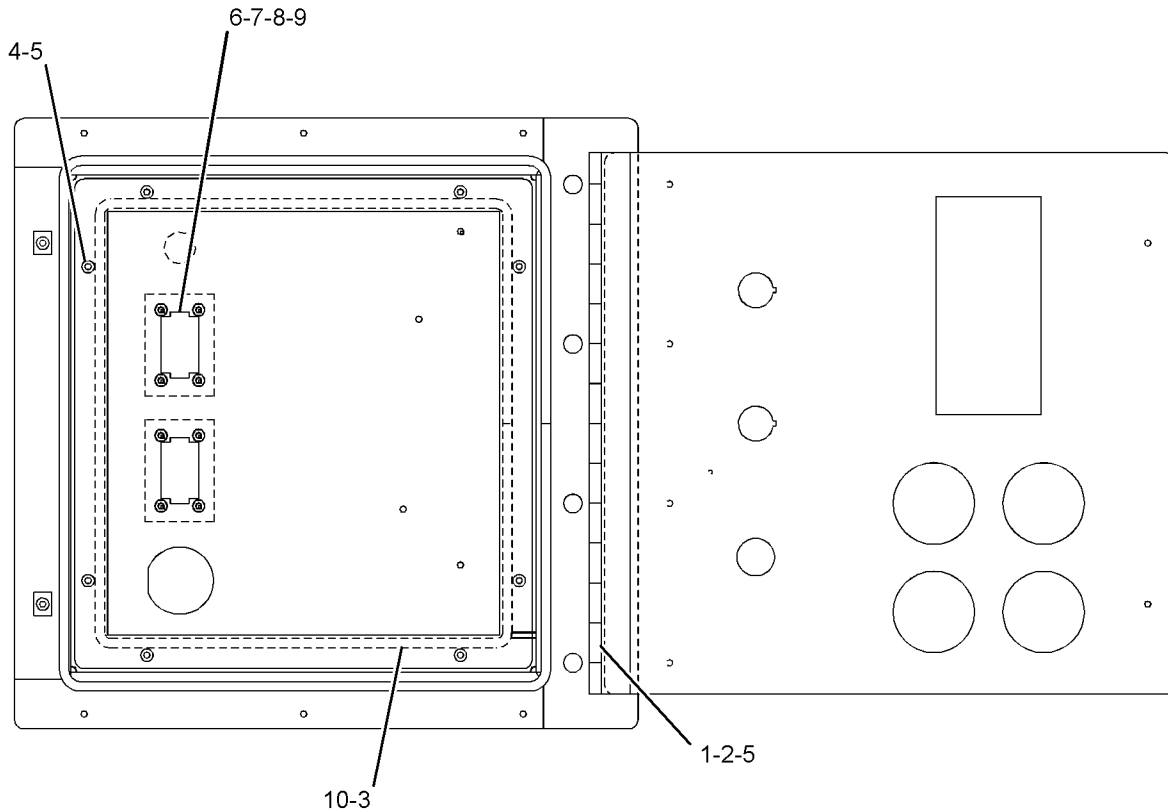
PART OF 273-4361, 273-5663 PANEL GP-ELECTRONIC
AN ATTACHMENT

SMCS-4490, 7490

i02312154

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	273-4922	1	DOOR AS						
	2	1	205-3657	1	HINGE AS						
		1	203-5398	4	INSERT-THREADED (M5X0.8-THD)						
	3	1	273-4935	1	PANEL AS-ELECTRICAL						
	4	1	273-4937	1	PLATE						
	5	1	245-6541	18	BOLT						
M	6	1	178-9983	8	LOCKNUT (M4X0.7-THD)						
	7	1	196-0347	8	WASHER (4.3X8.7X0.8-MM THK)						
	8	1	214-9193	8	SCREW (M4X16-MM)						
	9	1	273-4359	2	PLATE						
	10	1	121-4721	1	STRIP-DUST SEAL						

M-METRIC PART



GRAPHIC #1

<END>

g01160026

OPERATOR STATION

271-2727 PANEL GP-CONTROL

S/N: L1K1-UP; S1M1-UP

24-VOLT

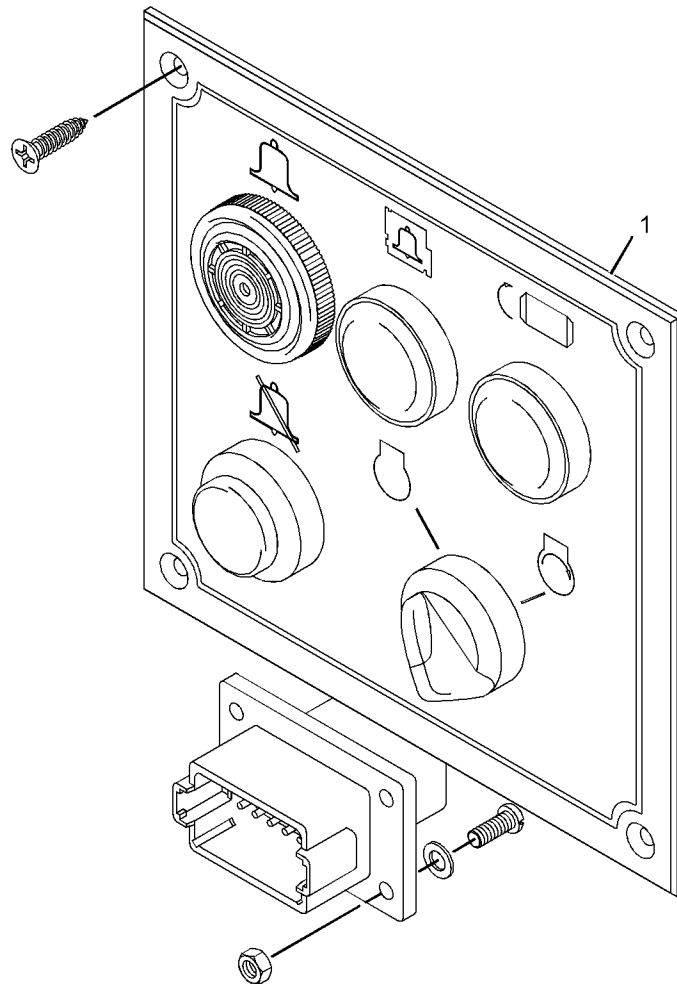
AN ATTACHMENT

SMCS-4490, 7451

i02306095

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	271-2725	1	PANEL AS-CONTROL						279

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01156778

OPERATOR STATION

271-2728 PANEL GP-CONTROL

S/N: L1K1-UP; S1M1-UP

12-VOLT

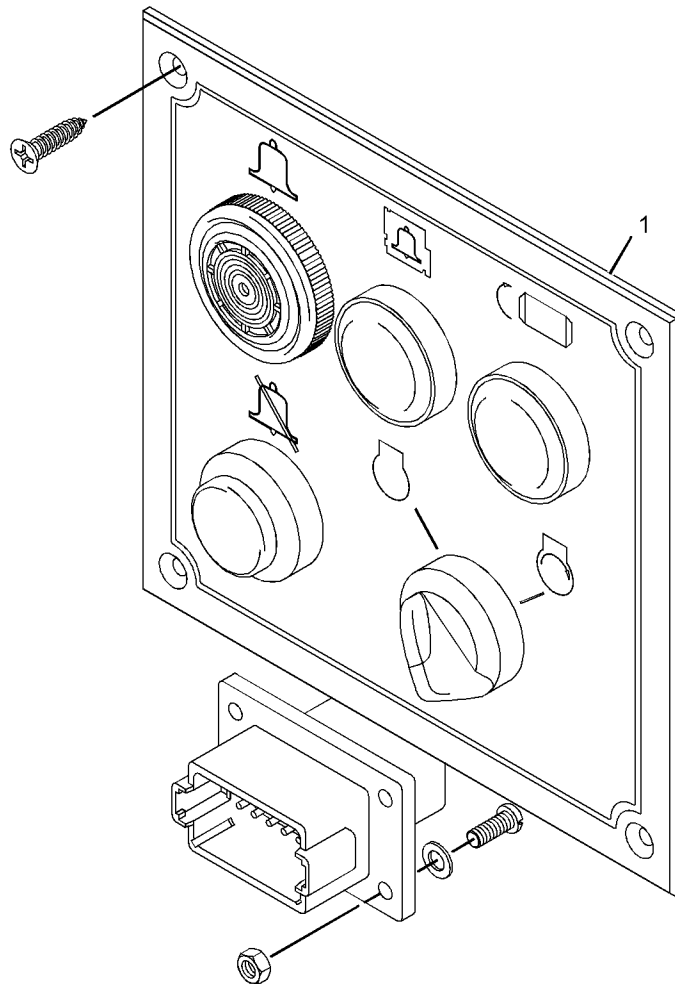
AN ATTACHMENT

SMCS-4490, 7451

i02306121

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	271-2726	1	PANEL AS-CONTROL						280

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01156778

OPERATOR STATION

271-3522 PANEL GP-CONTROL

S/N: L1K1-UP; S1M1-UP

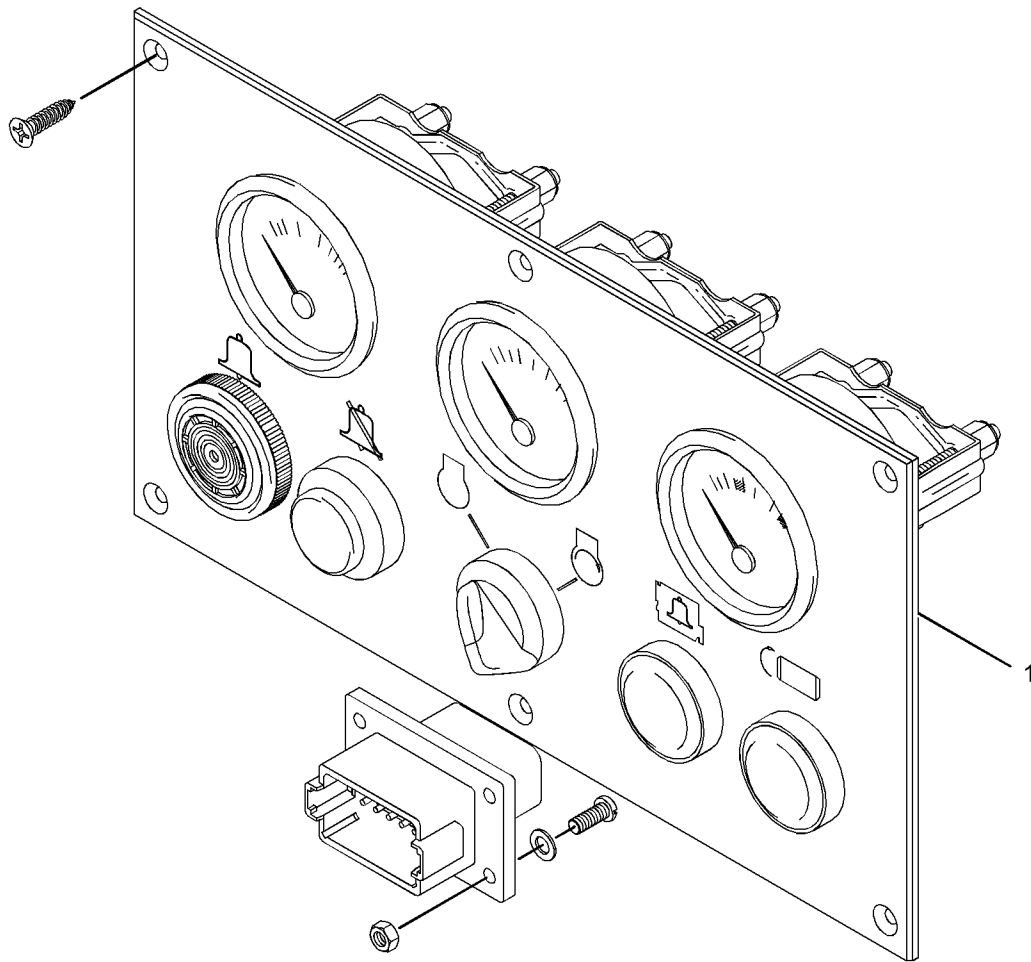
12-VOLT

AN ATTACHMENT

SMCS-4490, 7451

i02326474

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	271-3526	1	PANEL AS-CONTROL (12-VOLT)						281
Y-SEPARATE ILLUSTRATION											



GRAPHIC #1

<END>

g01157359

OPERATOR STATION

271-3523 PANEL GP-CONTROL

S/N: L1K1-UP; S1M1-UP

24-VOLT

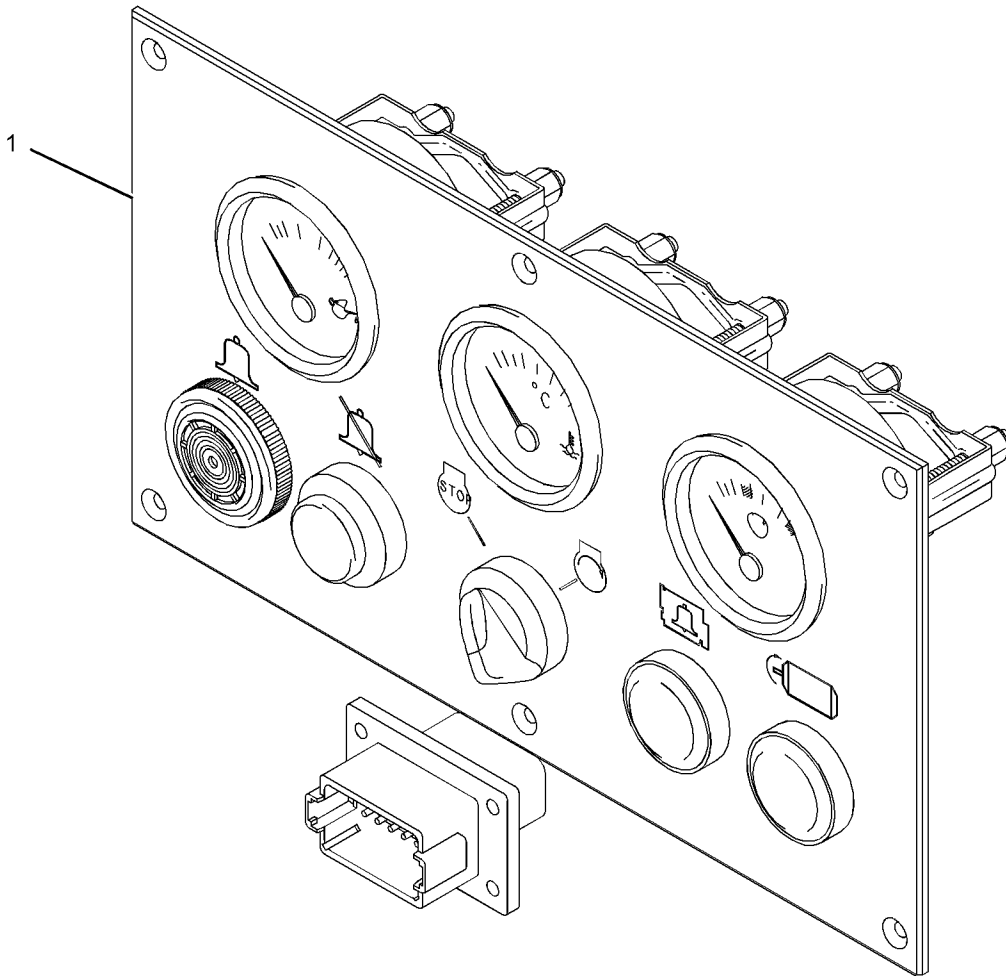
AN ATTACHMENT

SMCS-4490, 7451

i02326478

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	271-3527	1	PANEL AS-CONTROL (24-VOLT)						282

Y-SEPARATE ILLUSTRATION



GRAPHIC #1

<END>

g01157345

OPERATOR STATION

273-4361 PANEL GP-ELECTRONIC

S/N: L1K1-UP; S1M1-UP

24-VOLT

AN ATTACHMENT

SMCS-4490, 7490

i02623765

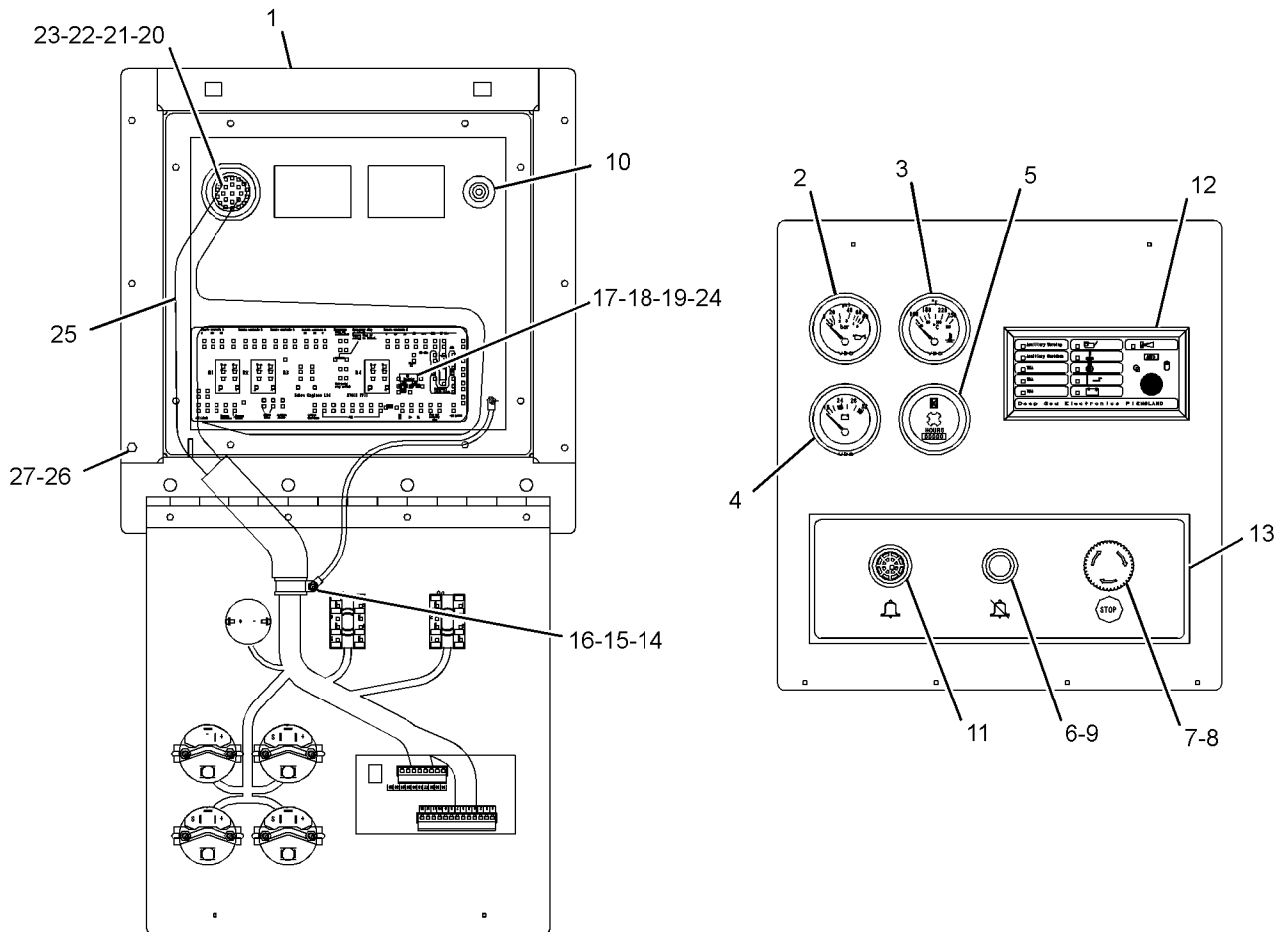
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	273-4349	1	PANEL AS-ELECTRONIC						284
	2	1	243-3851	1	GAUGE-OIL PRESS (24-VOLT) (ENGINE)						
	3	1	243-3852	1	GAUGE-WATER TEMPERATURE (24-VOLT)						
	4	1	243-3853	1	VOLTMETER GP (24-VOLT)						
	5	1	231-5917	1	METER GP-SERVICE (12-VOLT, 24-VOLT)						
	6	1	271-2702	1	BUTTON (ALARM SILENCE)						
	7	1	273-4282	1	BUTTON-STOP						
	8	1	273-4283	1	CONTACT AS						
	9	1	273-4287	1	CONTACT AS						
	10	1	273-4715	1	GROMMET						
	11	1	256-6504	1	HORN						
	12	1	206-9503	1	MODULE-CONTROL (520)						
	13	1	273-4355	1	FILM						
	14	1	196-7715	1	CLIP						
M	15	1	178-9983	2	LOCKNUT (M4X0.7-THD)						
	16	1	196-0347	4	WASHER (4.3X8.7X0.8-MM THK)						
	17	1	273-4352	3	SPACER						
	18	1	214-9193	3	SCREW (M4X16-MM)						
	19	1	273-4356	2	PLUG						
	20	1	212-9865	1	CONNECTOR						
	21	1	186-3735	15	PIN-CONNECTOR (16-GA TO 18-GA)						
	22	1	211-0052	1	NUT (11/16-18-THD)						
	23	1	128-4249	1	LOCKWASHER						
	24	1	243-4630	3	RELAY						
	25	1	273-4357	1	HARNESS AS-PANEL						
	26	1	6I-0631	6	BOLT (M6X1X12-MM)						
	27	1	6I-0918	6	NUT (M6-THD)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION

OPERATOR STATION

273-4361 PANEL GP-ELECTRONIC (contd.)

i02623765



GRAPHIC #1

<END>

g01160032

OPERATOR STATION

273-5663 PANEL GP-ELECTRONIC

S/N: L1K1-UP; S1M1-UP

12-VOLT

AN ATTACHMENT

SMCS-4490, 7490

i02330874

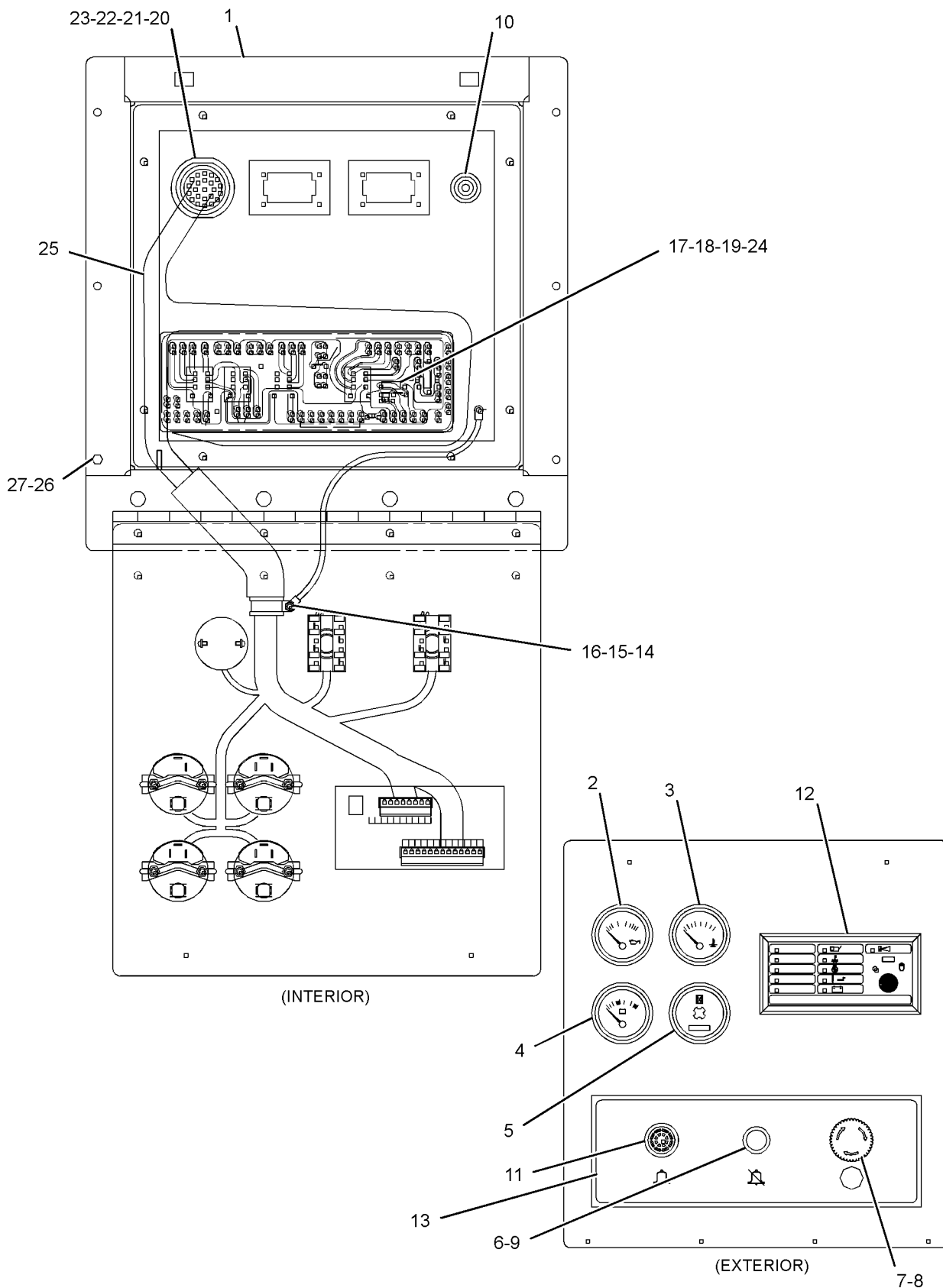
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	273-4349	1	PANEL AS-ELECTRONIC						284
	2	1	231-5914	1	GAUGE-PRESSURE (12-VOLT) (ENGINE OIL)						
	3	1	231-5915	1	GAUGE-TEMPERATURE (12-VOLT) (WATER)						
	4	1	231-5916	1	VOLTMETER GP (12-VOLT)						
	5	1	231-5917	1	METER GP-SERVICE (12-VOLT, 24-VOLT)						
	6	1	271-2702	1	BUTTON						
	7	1	273-4282	1	BUTTON-STOP						
	8	1	273-4283	1	CONTACT AS						
	9	1	273-4287	1	CONTACT AS						
	10	1	273-4715	1	GROMMET						
	11	1	256-6504	1	HORN						
	12	1	206-9503	1	MODULE-CONTROL (520)						
	13	1	273-4355	1	FILM						
	14	1	196-7715	1	CLIP						
M	15	1	178-9983	2	LOCKNUT (M4X0.7-THD)						
	16	1	196-0347	4	WASHER (4.3X8.7X0.8-MM THK)						
	17	1	273-4352	3	SPACER						
	18	1	214-9193	3	SCREW (M4X16-MM)						
	19	1	273-4356	2	PLUG						
	20	1	212-9865	1	CONNECTOR						
	21	1	186-3735	15	PIN-CONNECTOR (16-GA TO 18-GA)						
	22	1	211-0052	1	NUT (11/16-18-THD)						
	23	1	128-4249	1	LOCKWASHER						
	24	1	232-6568	3	RELAY AS (12-VOLT) (RUN)						
	25	1	273-4357	1	HARNESS AS-PANEL						
	26	1	6I-0631	6	BOLT (M6X1X12-MM)						
	27	1	6I-0918	6	NUT (M6-THD)						

M-METRIC PART
Y-SEPARATE ILLUSTRATION

OPERATOR STATION

273-5663 PANEL GP-ELECTRONIC (contd.)

i02330874



GRAPHIC #1

<END>

g01159461

OPERATOR STATION

273-6214 PANEL GP-ELECTRONIC

S/N: L1K1-UP; S1M1-UP

12-VOLT

AN ATTACHMENT

SMCS-4490, 7490

i02312065

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	273-5783	1	PANEL AS-ELECTRICAL						283
	2	2	271-2702	1	BUTTON						
	3	2	273-4282	1	BUTTON-STOP						
	4	1	273-4283	1	CONTACT AS						
	5	1	273-4287	1	CONTACT AS						
	6	2	256-6504	1	HORN						
	7	2	213-0014	1	MODULE-CONTROL (550)						
	8	2	273-4355	1	FILM						
	9	1	196-7715	1	CLIP						
M	10	1	178-9983	5	LOCKNUT (M4X0.7-THD)						
	11	1	196-0347	5	WASHER (4.3X8.7X0.8-MM THK)						
	12	1	273-4352	3	SPACER						
	13	1	214-9193	3	SCREW (M4X16-MM)						
	14	1	273-4356	2	PLUG						
	15	1	212-9865	1	CONNECTOR						
	16	1	186-3735	15	PIN-CONNECTOR (16-GA TO 18-GA)						
	17	1	211-0052	1	NUT (11/16-18-THD)						
	18	1	128-4249	1	LOCKWASHER						
	19	1	273-2453	1	HARNESS AS-PANEL						
	20	1	273-4715	1	GROMMET						
	21	1	232-6568	4	RELAY AS (12-VOLT) (RUN)						
	22	1	273-6213	1	HARNESS AS-PANEL						
	23	1	6I-0631	6	BOLT (M6X1X12-MM)						
	24	1	6I-0918	6	NUT (M6-THD)						

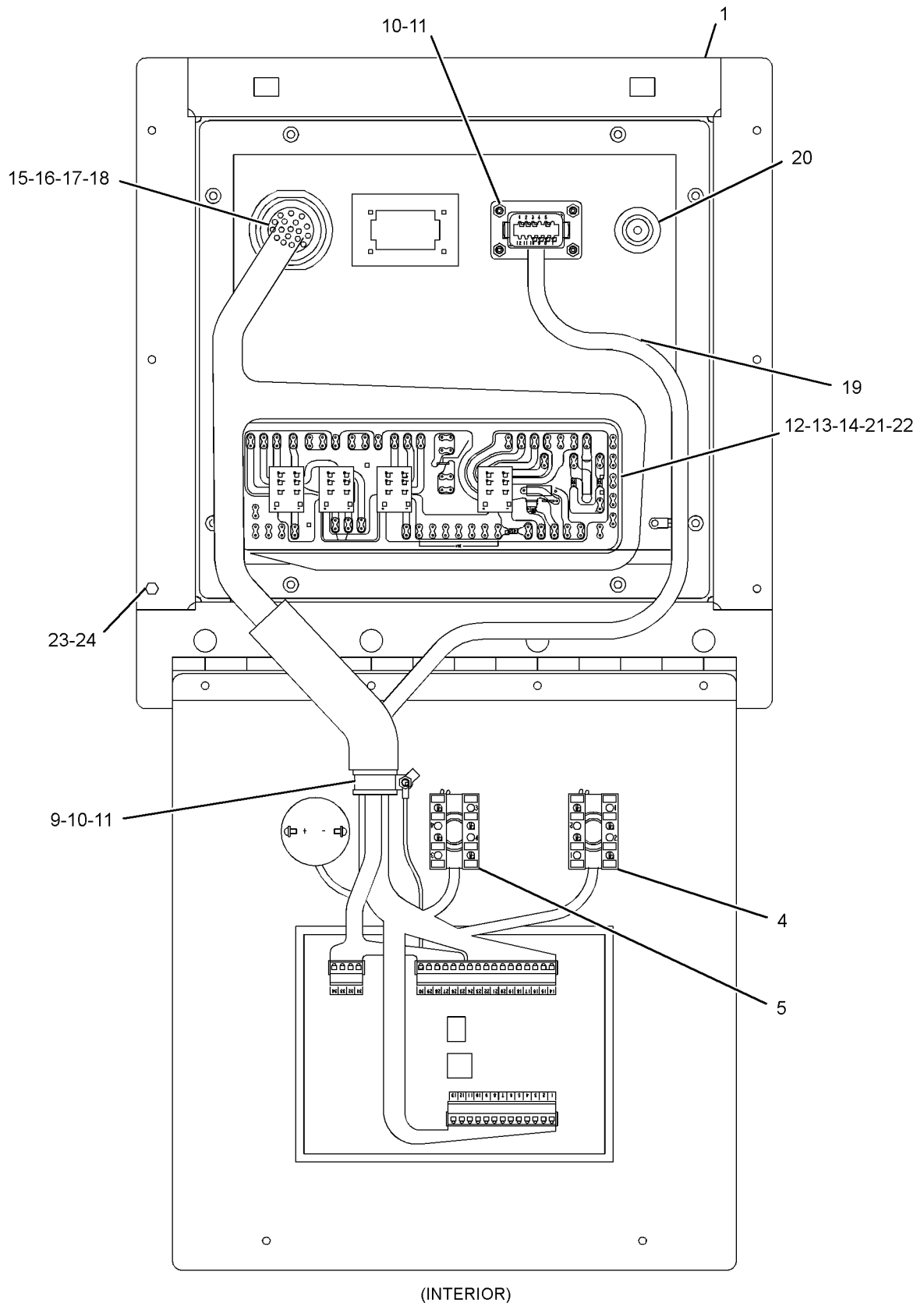
M-METRIC PART

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

273-6214 PANEL GP-ELECTRONIC (contd.)

i02312065



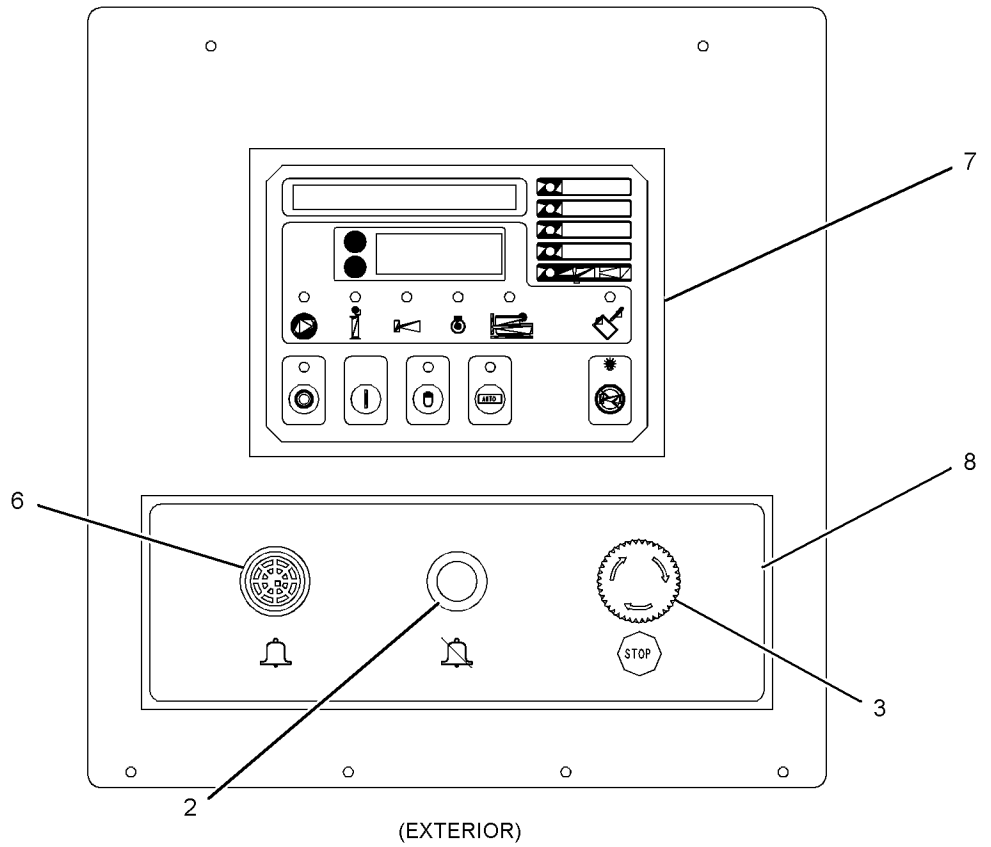
GRAPHIC #1

g01158803

OPERATOR STATION

273-6214 PANEL GP-ELECTRONIC (contd.)

i02312065



GRAPHIC #2

<END>

g01158992

OPERATOR STATION

273-6381 PANEL GP-ELECTRONIC

S/N: L1K1-UP; S1M1-UP

24-VOLT

AN ATTACHMENT

SMCS-4490, 7490

i02312121

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	1	1	273-5783	1	PANEL AS-ELECTRICAL						283
	2	1	271-2702	1	BUTTON (ALARM SILENCE)						
	3	1	273-4282	1	BUTTON-STOP						
	4	1	273-4283	1	CONTACT AS						
	5	1	273-4287	1	CONTACT AS						
	6	1	256-6504	1	HORN						
	7	1	213-0014	1	MODULE-CONTROL (550)						
	8	1	273-4355	1	FILM						
	9	1	196-7715	1	CLIP						
M	10	1	178-9983	5	LOCKNUT (M4X0.7-THD)						
	11	1	196-0347	5	WASHER (4.3X8.7X0.8-MM THK)						
	12	1	273-4352	3	SPACER						
	13	1	214-9193	3	SCREW (M4X16-MM)						
	14	1	273-4356	2	PLUG						
	15	1	212-9865	1	CONNECTOR						
	16	1	186-3735	15	PIN-CONNECTOR (16-GA TO 18-GA)						
	17	1	211-0052	1	NUT (11/16-18-THD)						
	18	1	128-4249	1	LOCKWASHER						
	19	1	273-2453	1	HARNESS AS-PANEL						
	20	1	273-4715	1	GROMMET						
	21	1	243-4630	4	RELAY						
	22	1	273-6213	1	HARNESS AS-PANEL						
	23	1	6I-0631	6	BOLT (M6X1X12-MM)						
	24	1	6I-0918	6	NUT (M6-THD)						

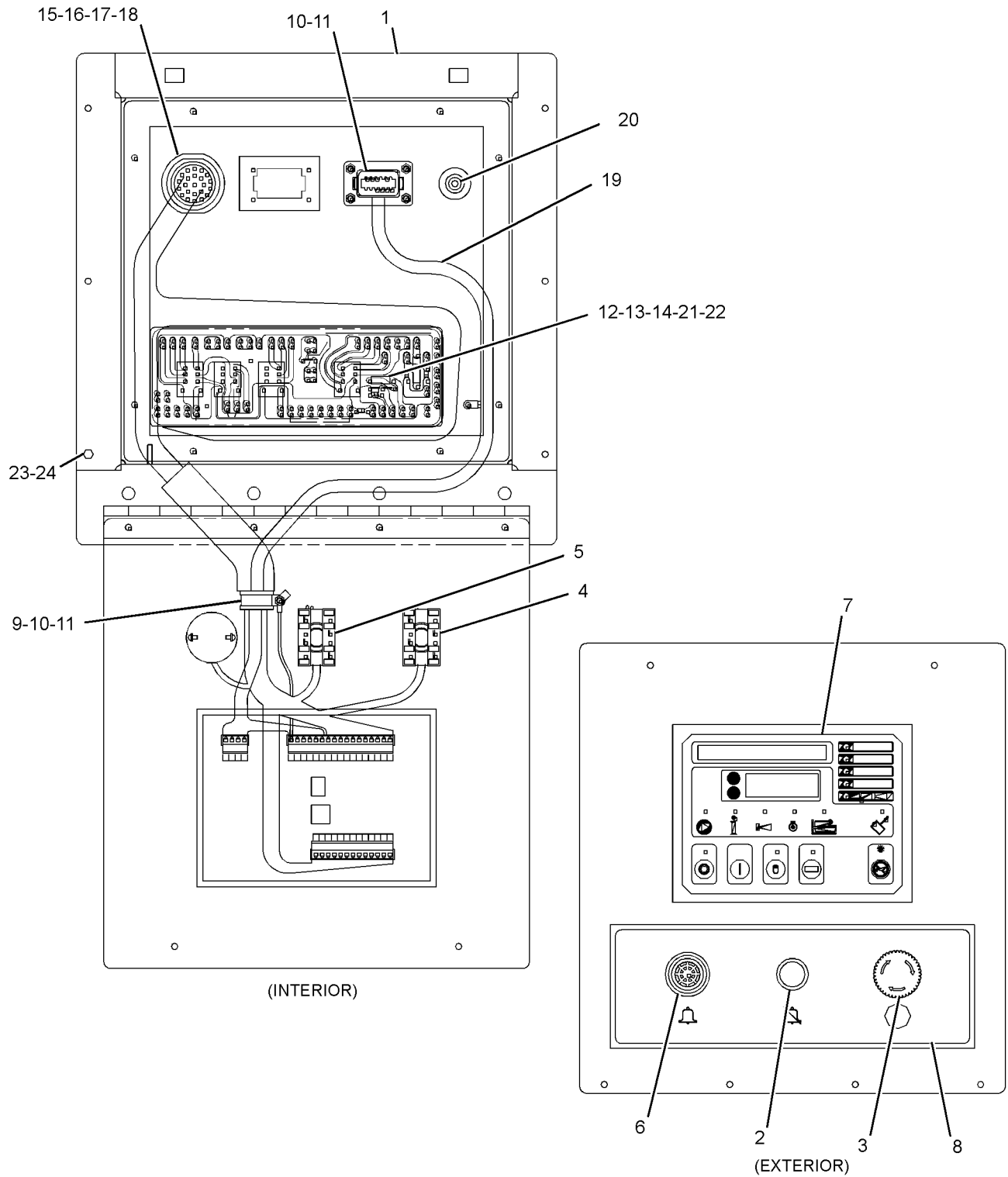
M-METRIC PART

Y-SEPARATE ILLUSTRATION

OPERATOR STATION

273-6381 PANEL GP-ELECTRONIC (contd.)

i02312121



GRAPHIC #1

<END>

g01159374

OPERATOR STATION

291-1738 PANEL GP-ELECTRONIC

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4490, 7490

i02566185

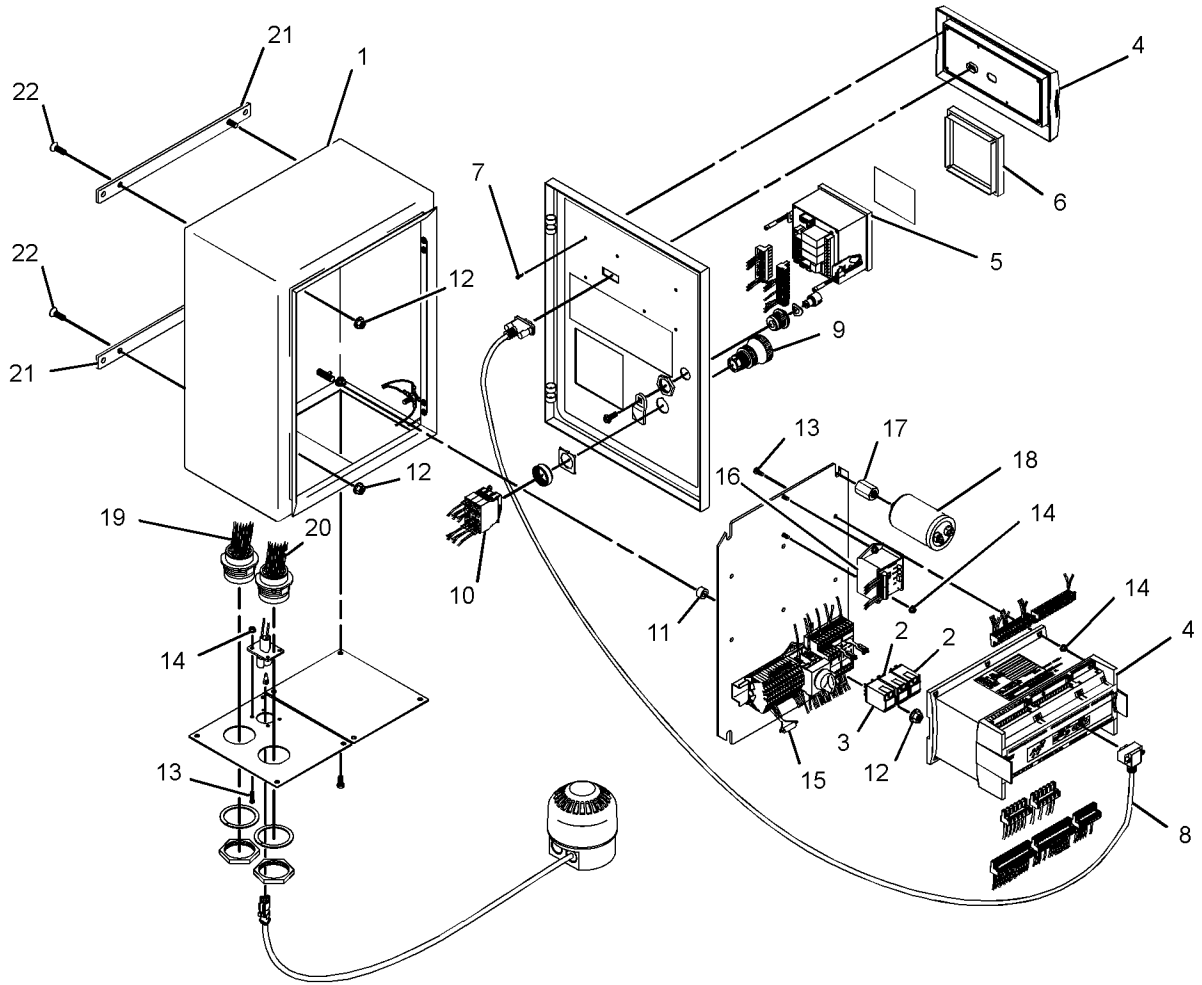
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	291-1739	1	BOX AS						
	2	1	232-6568	2	RELAY AS (12-VOLT) (RUN)						
	3	1	232-6569	1	RELAY AS (12-VOLT, LATCHING) (ON)						
	4	1	291-1740	1	CONTROLLER						
	5	1	291-1741	1	PANEL-ALARM						
	6	1	291-1742	1	COVER						
M	7	1	8U-7803	6	SCREW						
	8	1	291-1743	1	HARNESS						
	9	1	273-4282	1	BUTTON-STOP						
	10	1	293-5923	1	CONTACT AS						
	11	1	196-0271	4	SPACER (8.5X14.3X8-MM)						
	12	1	6I-0291	8	NUT (M8X1.25-THD)						
	13	1	214-9193	12	SCREW (M4X16-MM)						
	14	1	291-1744	12	NUT						
	15	1	291-1745	1	RESISTOR						
	16	1	291-1746	1	SWITCH (SPEED)						
	17	1	291-1747	1	PILLAR						
	18	1	291-1748	1	CAPACITOR						
	19	1	291-1749	1	HARNESS AS-PANEL						
	20	1	291-1750	1	HARNESS AS-PANEL						
	21	1	294-3347	2	BRACKET						
	22	1	101-7541	4	BOLT						

M-METRIC PART

OPERATOR STATION

291-1738 PANEL GP-ELECTRONIC (contd.)

i02566185



GRAPHIC #1

<END>

g01279024

OPERATOR STATION

291-2597 PANEL GP-ELECTRONIC

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4490, 7490

i02540692

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	291-1739	1	BOX AS						
	2	1	243-4630	2	RELAY (RUN)						
	3	1	243-4631	1	RELAY (ON)						
	4	1	291-1740	1	CONTROLLER						
	5	1	291-1741	1	PANEL-ALARM						
	6	1	291-1742	1	COVER						
M	7	1	8U-7803	6	SCREW						
	8	1	291-1743	1	HARNESS						
	9	1	273-4282	1	BUTTON-STOP						
	10	1	293-5923	1	CONTACT AS						
	11	1	196-0271	4	SPACER (8.5X14.3X8-MM)						
	12	1	6I-0291	8	NUT (M8X1.25-THD)						
	13	1	214-9193	12	SCREW (M4X16-MM)						
	14	1	291-1744	12	NUT						
	15	1	291-2601	1	RESISTOR						
	16	1	291-2602	1	SWITCH (SPEED)						
	17	1	291-1747	1	PILLAR						
	18	1	291-1748	1	CAPACITOR						
	19	1	291-1749	1	HARNESS AS-PANEL						
	20	1	291-1750	1	HARNESS AS-PANEL						
	21	1	294-3347	2	BRACKET						
	22	1	101-7541	4	BOLT						

M-METRIC PART

ENCLOSURES, GUARDS AND BASES

263-3782 BASE GP-ENGINE & GENERATOR

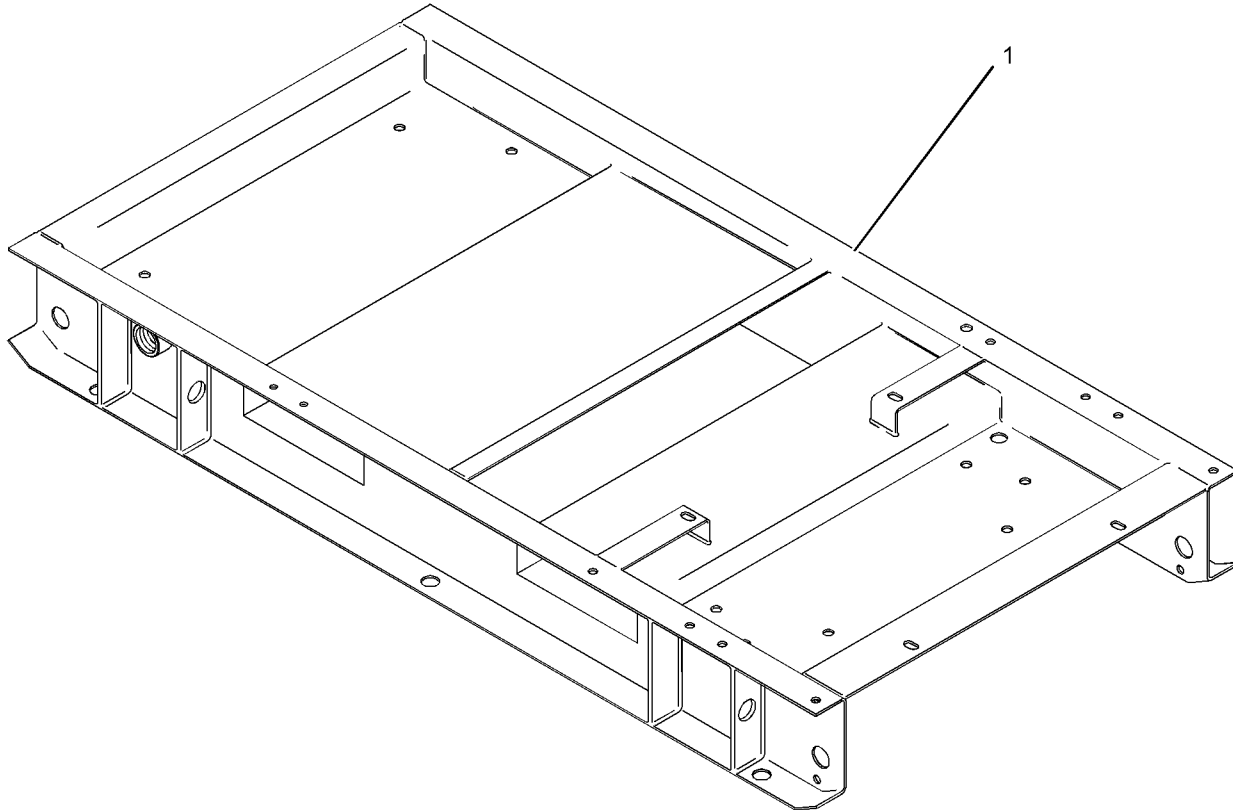
S/N: L1K1-UP; S1M1-UP

PART OF 284-5268, 284-5269 GENERAL AR-GENERATOR, 284-5271, 284-5272,
284-5273, 284-5274, 284-5275, 290-9639 GENERATOR AR
AN ATTACHMENT

SMCS-7060

i02286897

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-3788	1	BASE AS						



GRAPHIC #1

<END>

g01149036

GENERATORS

284-5271 GENERATOR AR

S/N: S1M1-UP

50 HERTZ

AN ATTACHMENT

SMCS-4450

i02434185

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0081	1	COVER GP-ENGINE LIFTING EYE						24
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3304	1	ENGINE AR-COMPLETE						6
Y	265-2849	1	GENERATOR GP						307
Y	266-5347	1	MOUNTING GP-ENGINE & GENERATOR						58

Y-SEPARATE ILLUSTRATION

<END>

284-5272 GENERATOR AR

S/N: S1M1-UP

60 HERTZ

AN ATTACHMENT

SMCS-4450

i02434276

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0081	1	COVER GP-ENGINE LIFTING EYE						24
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3303	1	ENGINE AR-COMPLETE						5
Y	265-2849	1	GENERATOR GP						307
Y	266-5347	1	MOUNTING GP-ENGINE & GENERATOR						58

Y-SEPARATE ILLUSTRATION

<END>

GENERATORS

284-5273 GENERATOR AR

S/N: S1M1-UP
50 HERTZ
AN ATTACHMENT

SMCS-4450

i02434272

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3300	1	ENGINE AR-COMPLETE						2
Y	265-3731	1	GENERATOR GP						308
Y	268-3640	1	MOUNTING GP-ENGINE & GENERATOR						60

Y-SEPARATE ILLUSTRATION

<END>

284-5274 GENERATOR AR

S/N: S1M1-UP
60 HERTZ
AN ATTACHMENT

SMCS-4450

i02434260

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3301	1	ENGINE AR-COMPLETE						3
Y	265-3740	1	GENERATOR GP						309
Y	268-3640	1	MOUNTING GP-ENGINE & GENERATOR						60

Y-SEPARATE ILLUSTRATION

<END>

284-5275 GENERATOR AR

S/N: S1M1-UP
50 HERTZ
AN ATTACHMENT

SMCS-4450

i02434235

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3302	1	ENGINE AR-COMPLETE						4
Y	265-3740	1	GENERATOR GP						309
Y	268-3640	1	MOUNTING GP-ENGINE & GENERATOR						60

Y-SEPARATE ILLUSTRATION

<END>

GENERATORS

290-9639 GENERATOR AR

S/N: S1M1-UP

60 HERTZ

AN ATTACHMENT

SMCS-4450

i02529142

NOTE	PART NUMBER	QTY	PART NAME						SEE PAGE
			1	2	3	4	5	6 (PRODUCT LEVEL)	
Y	263-3782	1	BASE GP-ENGINE & GENERATOR						302
Y	263-7929	1	COUPLING GP-GENERATOR						21
Y	270-0089	2	COVER GP-ENGINE LIFTING EYE						25
Y	270-1513	1	COVER GP-ENGINE LIFTING EYE						26
Y	267-3299	1	ENGINE AR-COMPLETE						1
Y	265-3731	1	GENERATOR GP						308
Y	268-3640	1	MOUNTING GP-ENGINE & GENERATOR						60
Y-SEPARATE ILLUSTRATION									

<END>

GENERATORS

263-7105 GENERATOR GP

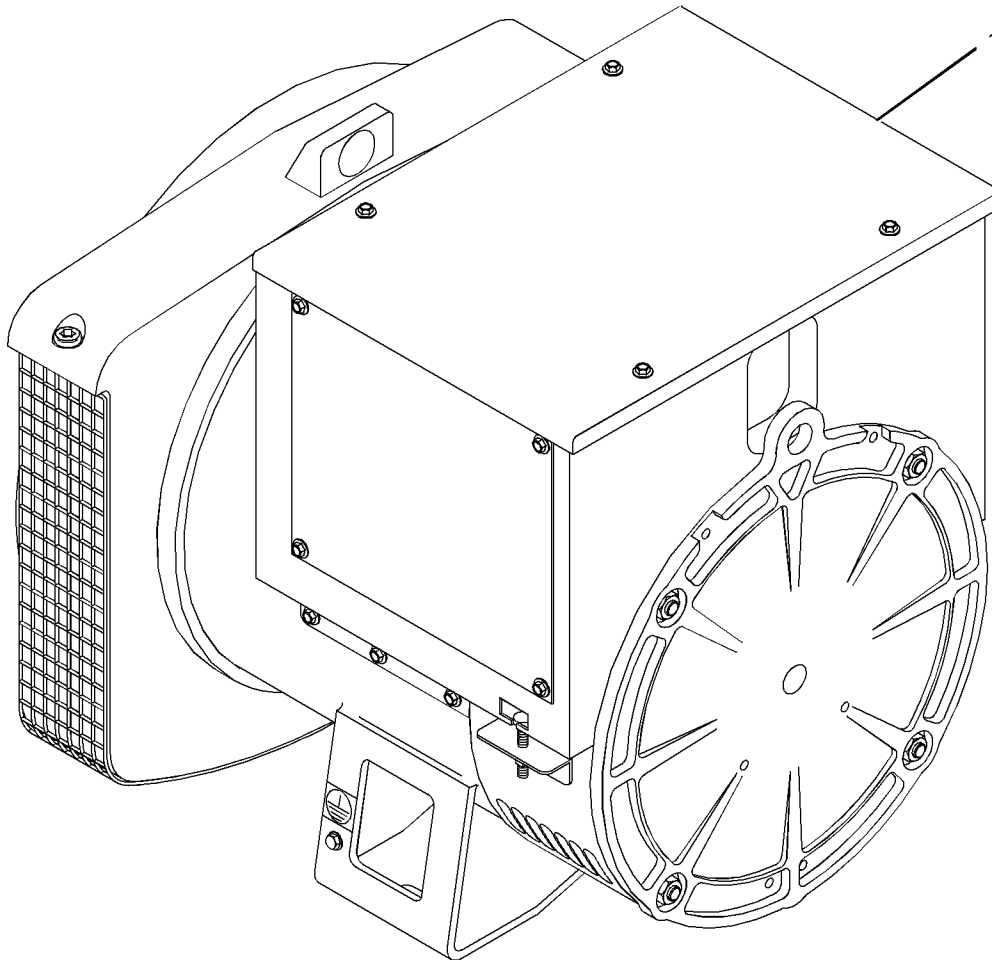
S/N: L1K1-UP

PART OF 284-5268, 284-5269 GENERAL AR-GENERATOR
FOR USE WITH NATURALLY ASPIRATED ENGINES
AN ATTACHMENT

SMCS-4450

i02308841

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	263-7100	1	GENERATOR						
AVAILABLE REPAIR KIT(S):											
			263-7101	1	KIT-MAGNET						



GRAPHIC #1

<END>

g01158651

GENERATORS

265-2849 GENERATOR GP

S/N: L1K1-UP; S1M1-UP

PART OF 284-5271, 284-5272 GENERATOR AR

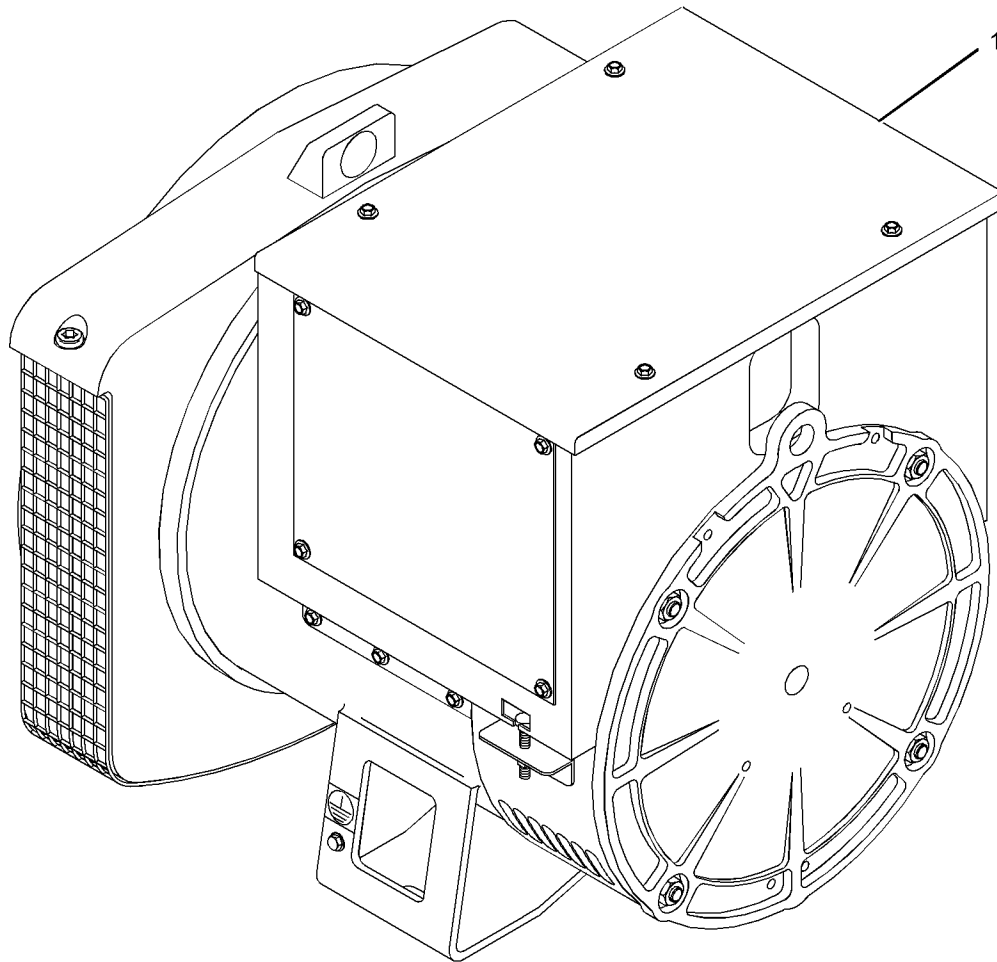
CANNOT BE USED WITH NATURALLY ASPIRATED AND TURBOCHARGED AND AFTERCOOLED
ENGINES

AN ATTACHMENT

SMCS-4450

i02309085

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	265-2843	1	GENERATOR						
					AVAILABLE REPAIR KIT(S):						
			263-7101	1	KIT-MAGNET						



GRAPHIC #1

<END>

g01158651

GENERATORS

265-3731 GENERATOR GP

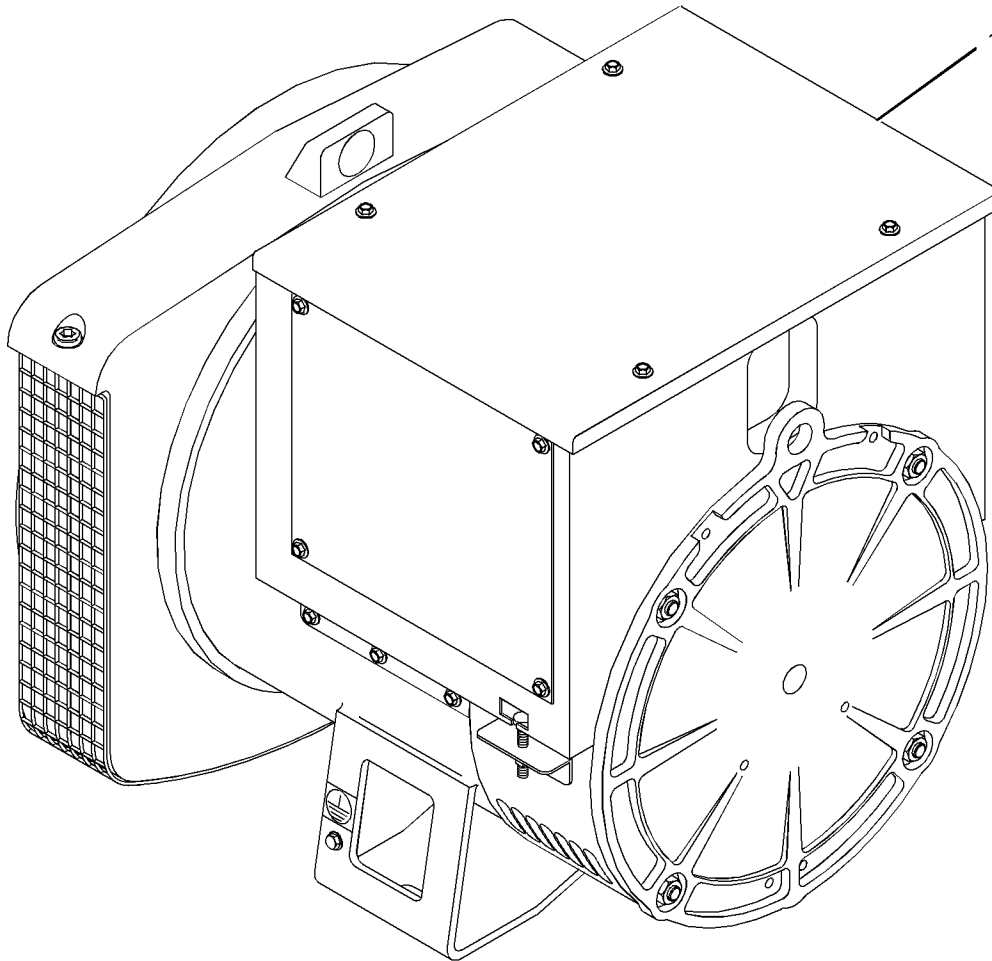
S/N: S1M1-UP

PART OF 284-5273, 290-9639 GENERATOR AR
AN ATTACHMENT

SMCS-4450

i02288727

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	265-3728	1	GENERATOR						
AVAILABLE REPAIR KIT(S):											
			263-7101	1	KIT-MAGNET						



GRAPHIC #1

<END>

g01158651

GENERATORS

265-3740 GENERATOR GP

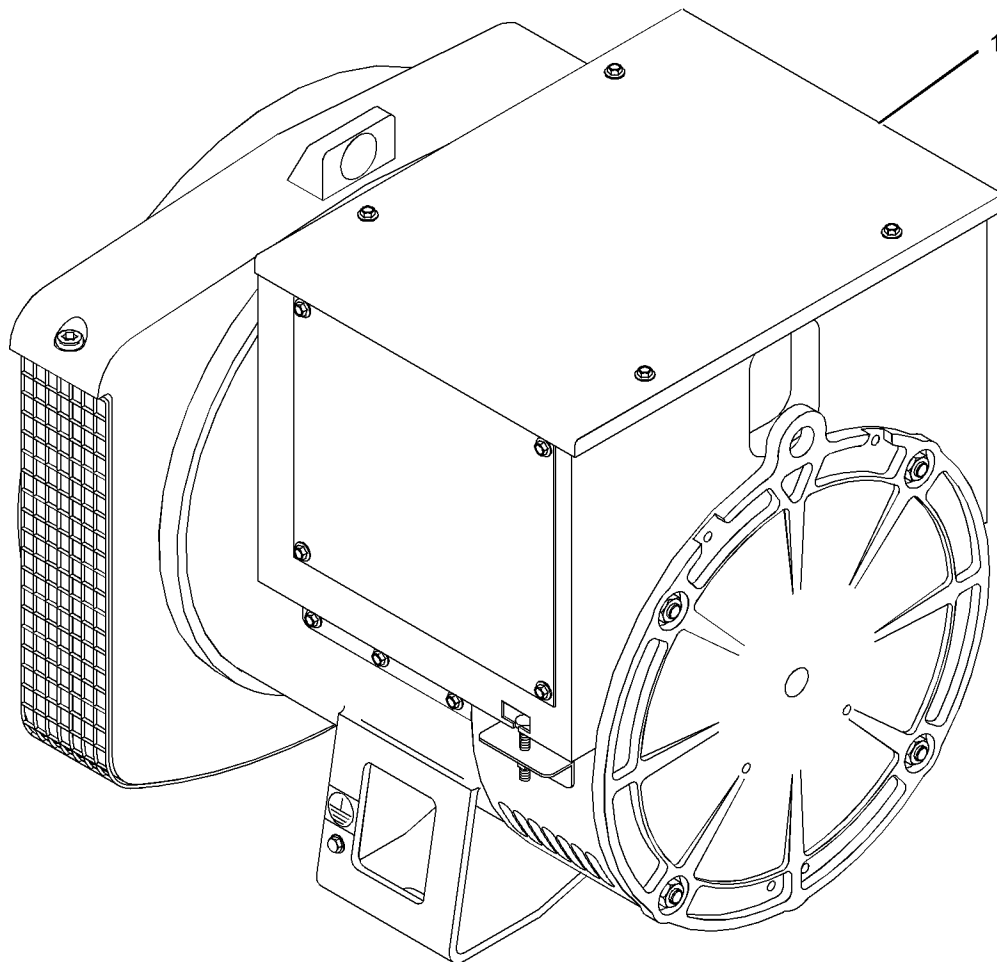
S/N: S1M1-UP

PART OF 284-5274, 284-5275 GENERATOR AR
AN ATTACHMENT

SMCS-4450

i02319447

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	265-3739	1	GENERATOR						
AVAILABLE REPAIR KIT(S):											
			263-7101	1	KIT-MAGNET						



GRAPHIC #1

<END>

g01158651

GENERATORS

272-2262 GENERATOR GP

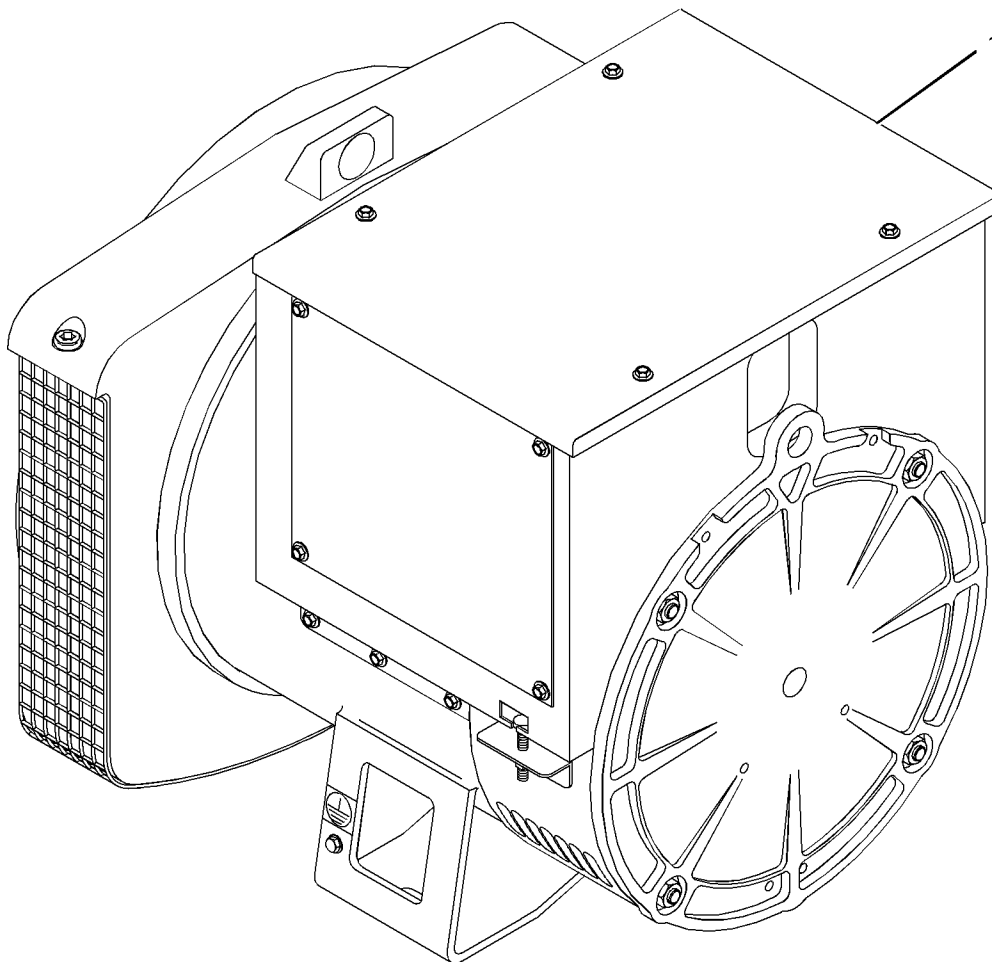
S/N: S1M1-UP

FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES ONLY
AN ATTACHMENT

SMCS-4450

i02326379

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	272-2261	1	GENERATOR						
					AVAILABLE REPAIR KIT(S):						
			263-7101	1	KIT-MAGNET						



GRAPHIC #1

<END>

g01158651

GENERATORS

269-9110 LIFTING GP-GENERATOR

S/N: S1M1-UP

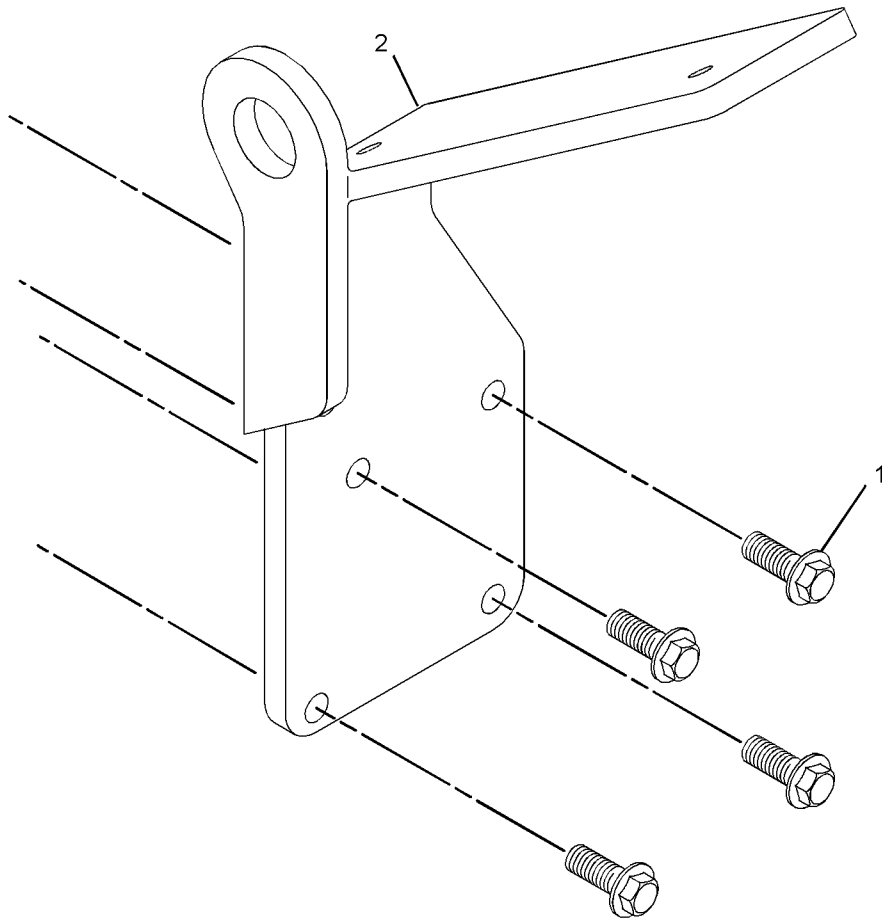
FOR USE WITH TURBOCHARGED AND AFTERCOOLED ENGINES
AN ATTACHMENT

SMCS-1122, 4450

i02291015

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
M	1	1	6I-0654	4	BOLT (M10X1.5X25-MM)						
	2	1	269-9111	1	BRACKET-LIFTING						

M-METRIC PART



GRAPHIC #1

<END>

g01148626

GENERATORS

291-4867 MOUNTING GP-GENERATOR

S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-4450, 7060

i02540702

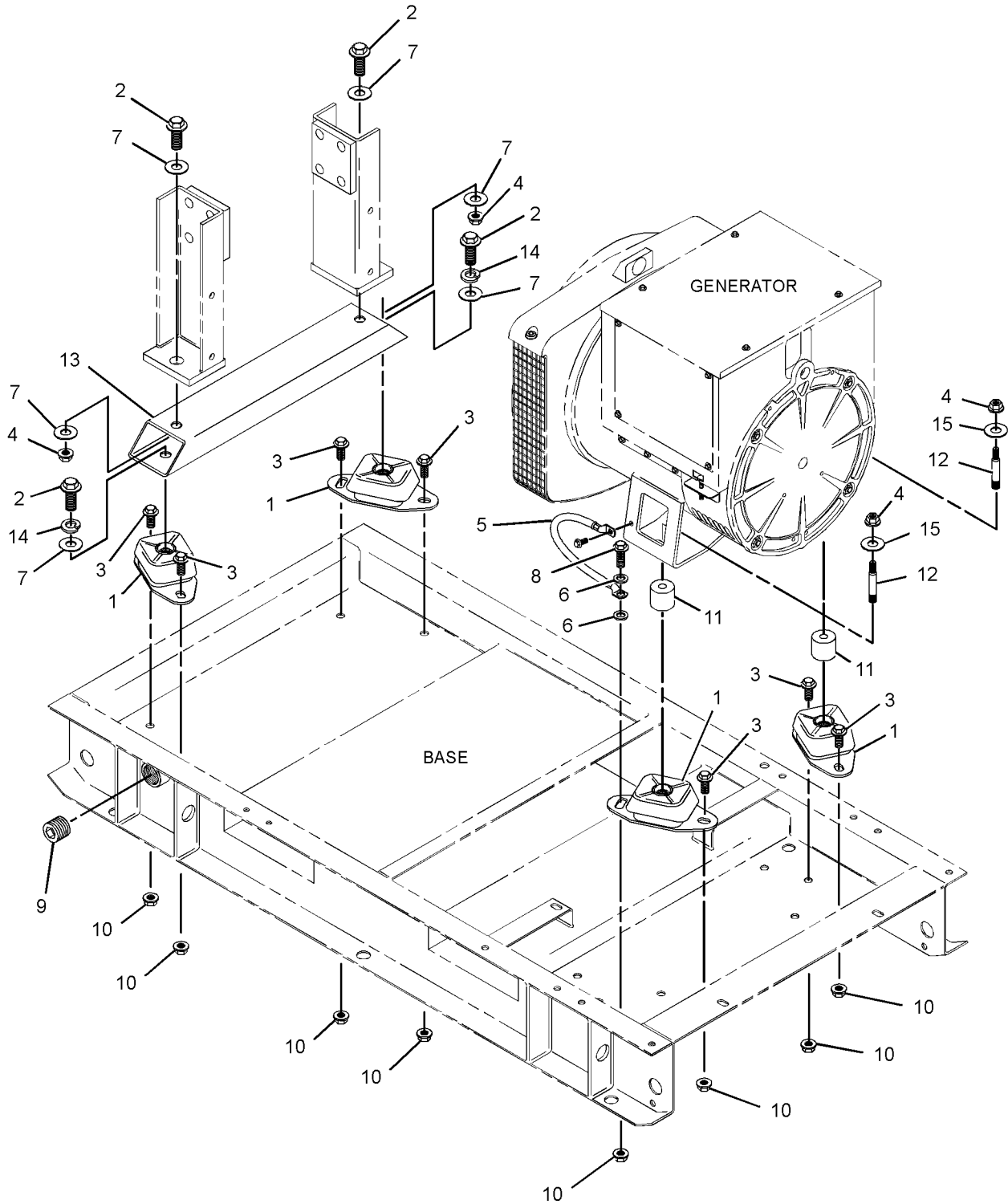
NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	266-5354	4	MOUNT-FLEXIBLE						
M	2	1	7X-2553	4	BOLT (M16X2X40-MM)						
	3	1	102-9941	7	BOLT (M12X1.75X25-MM)						
M	4	1	176-5311	4	LOCKNUT (M16X2-THD)						
	5	1	291-4868	1	CABLE AS						
	6	1	196-0348	2	WASHER (13X23.5X2.5-MM THK)						
	7	1	7X-0591	6	WASHER-HARD (17X29X3-MM THK)						
M	8	1	6I-0423	1	BOLT (M12X1.75X30-MM)						
	9	1	166-5000	1	PLUG						
	10	1	6I-0233	8	NUT (M12)						
	11	1	291-4869	2	SPACER						
	12	1	291-4870	2	STUD						
	13	1	291-4871	1	BRACKET						
	14	1	196-7702	2	LOCKWASHER						
	15	1	268-3639	2	WASHER (16.5X50X3-MM THK)						

M-METRIC PART

GENERATORS

291-4867 MOUNTING GP-GENERATOR (contd.)

i02540702



GRAPHIC #1

<END>

g01274051

SERVICE EQUIPMENT AND SUPPLIES

6L-4502 CHART-PLATE & FILM

S/N: L1K1-UP; S1M1-UP

SMCS-7557

i02291573

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

PRIME PACKAGE

268-9177 LINES GP-HEATER-WATER JACKET

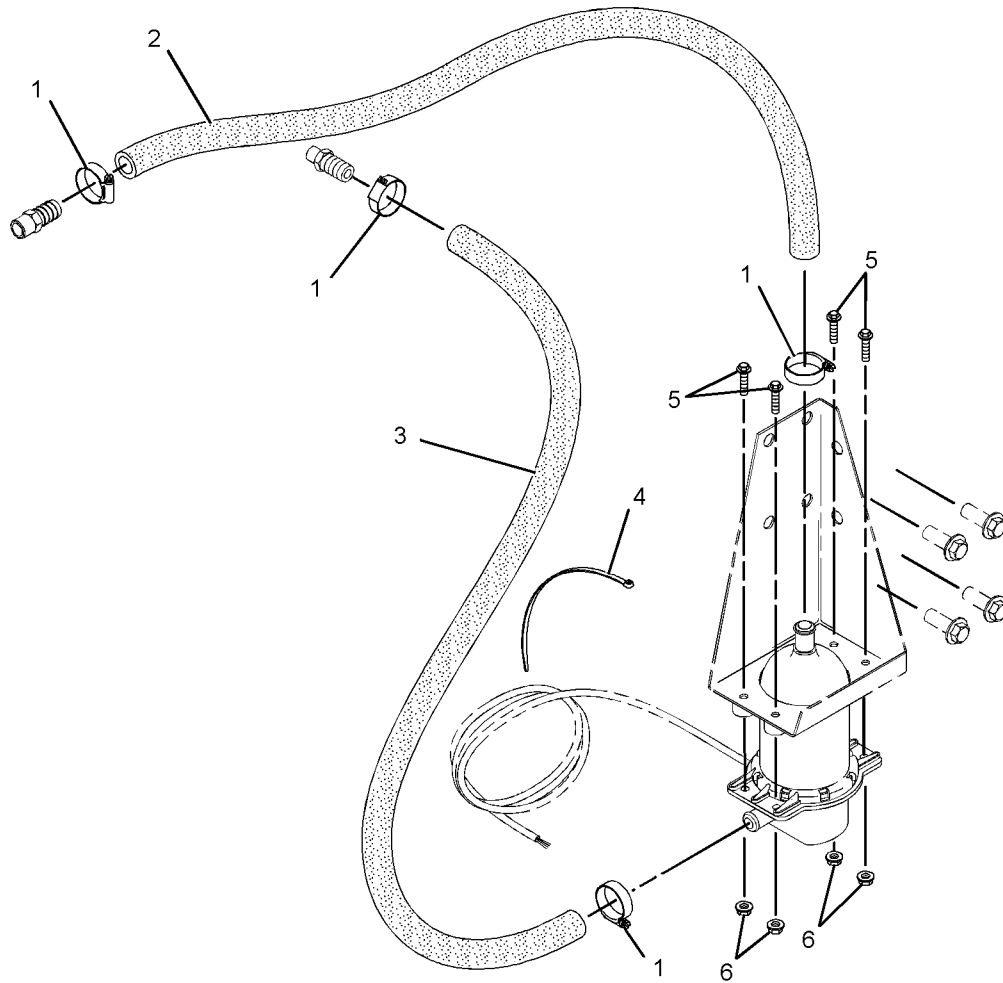
S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES, SINGLE STARTER MOTOR ENGINES
AN ATTACHMENT

SMCS-1296, 1383

i02290052

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5D-1026	4	CLAMP-HOSE						
	2	1	214-0695	1	HOSE (0.016X0.74-M)						
	3	1	214-0696	1	HOSE (0.016X0.5-M)						
	4	1	195-4615	1	STRAP						
	5	1	6I-0917	4	BOLT (M6X1X25-MM)						
	6	1	6I-0918	4	NUT (M6-THD)						



GRAPHIC #1

<END>

g01148018

PRIME PACKAGE

270-6888 LINES GP-HEATER-WATER JACKET

S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES ONLY, TWIN STARTER MOTOR ENGINES ONLY
AN ATTACHMENT

SMCS-1296, 1383

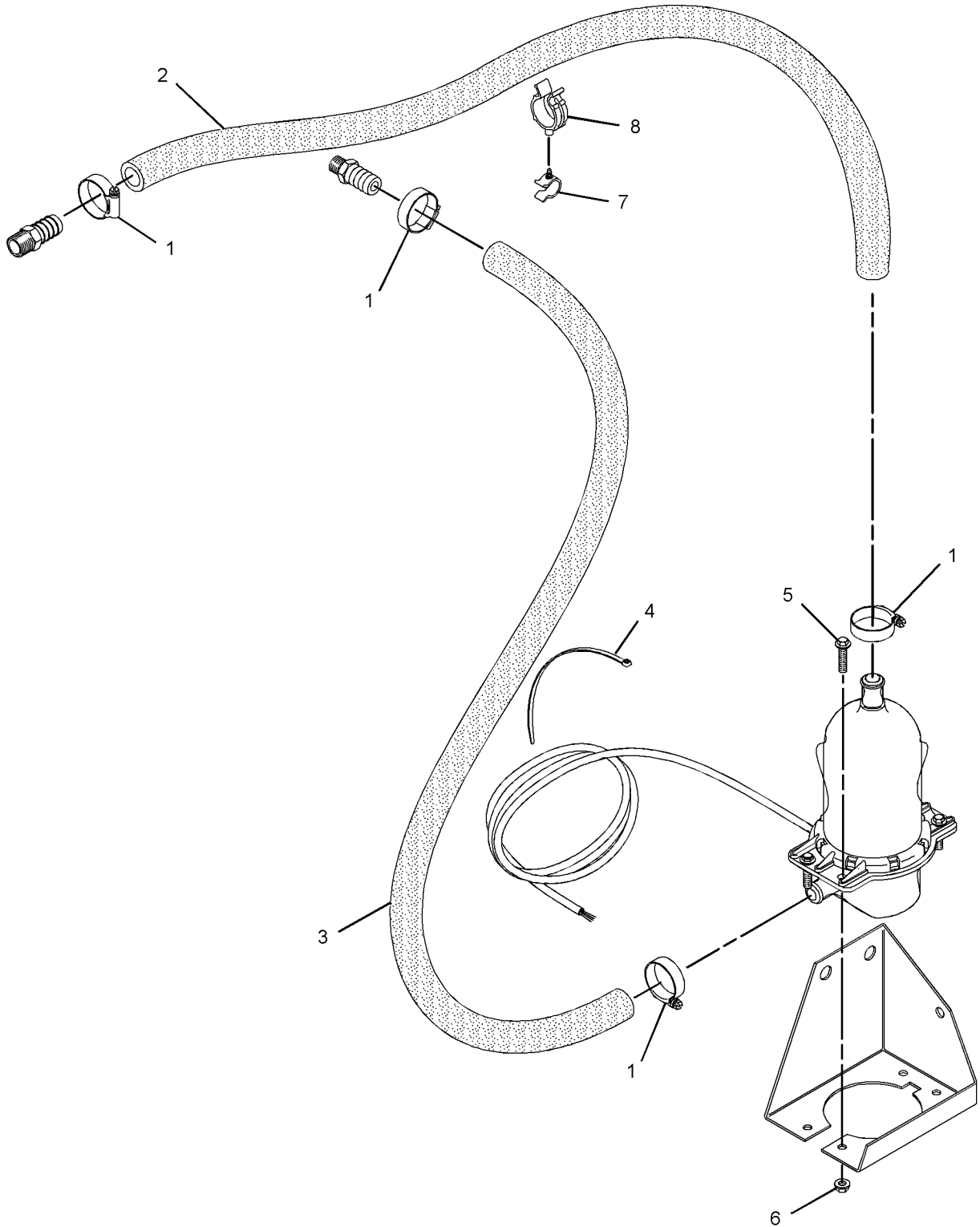
i02421620

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5D-1026	4	CLAMP-HOSE						
	2	1	214-7272	1	HOSE						
	3	1	270-6872	1	HOSE						
	4	1	195-4615	1	STRAP						
	5	1	6I-0631	4	BOLT (M6X1X12-MM)						
	6	1	6I-0918	4	NUT (M6-THD)						
	7	1	263-8001	1	CLIP						
	8	1	279-1526	1	CLIP						

PRIME PACKAGE

270-6888 LINES GP-HEATER (contd.)

i02421620



GRAPHIC #1

<END>

g01263928

PRIME PACKAGE

271-0190 LINES GP-HEATER-WATER JACKET

S/N: L1K1-UP; S1M1-UP

FOR USE WITH HEAT EXCHANGER COOLED ENGINES, TWIN STARTER MOTOR ENGINES
AN ATTACHMENT

SMCS-1296, 1383

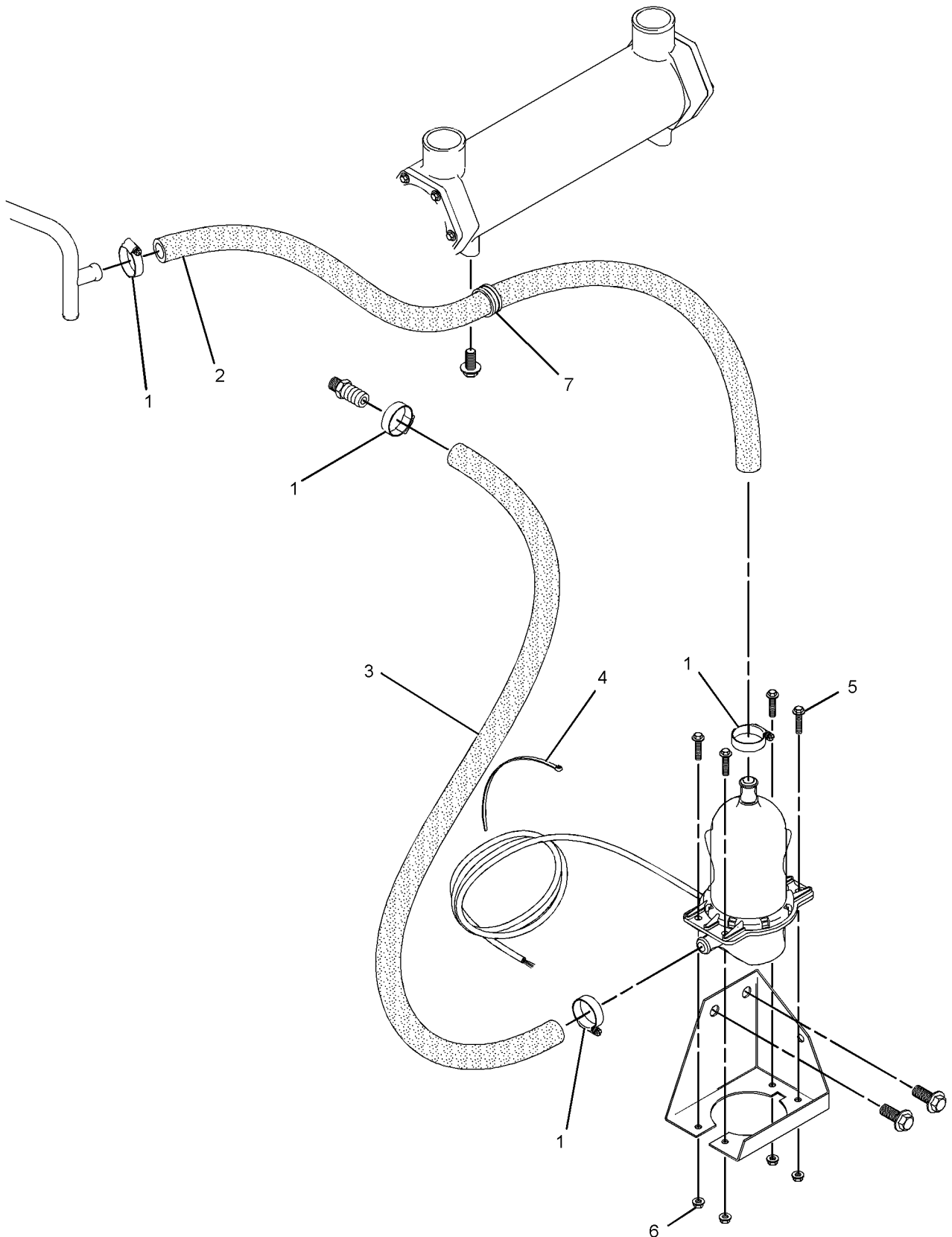
i02291572

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5D-1026	4	CLAMP-HOSE						
	2	1	214-7270	1	HOSE						
	3	1	270-6872	1	HOSE						
	4	1	195-4615	1	STRAP						
	5	1	6I-0631	4	BOLT (M6X1X12-MM)						
	6	1	6I-0918	4	NUT (M6-THD)						
	7	1	214-0699	1	CLIP						

PRIME PACKAGE

271-0190 LINES GP-HEATER (contd.)

i02291572



GRAPHIC #1

<END>

g01148343

PRIME PACKAGE

271-1336 LINES GP-HEATER-WATER JACKET

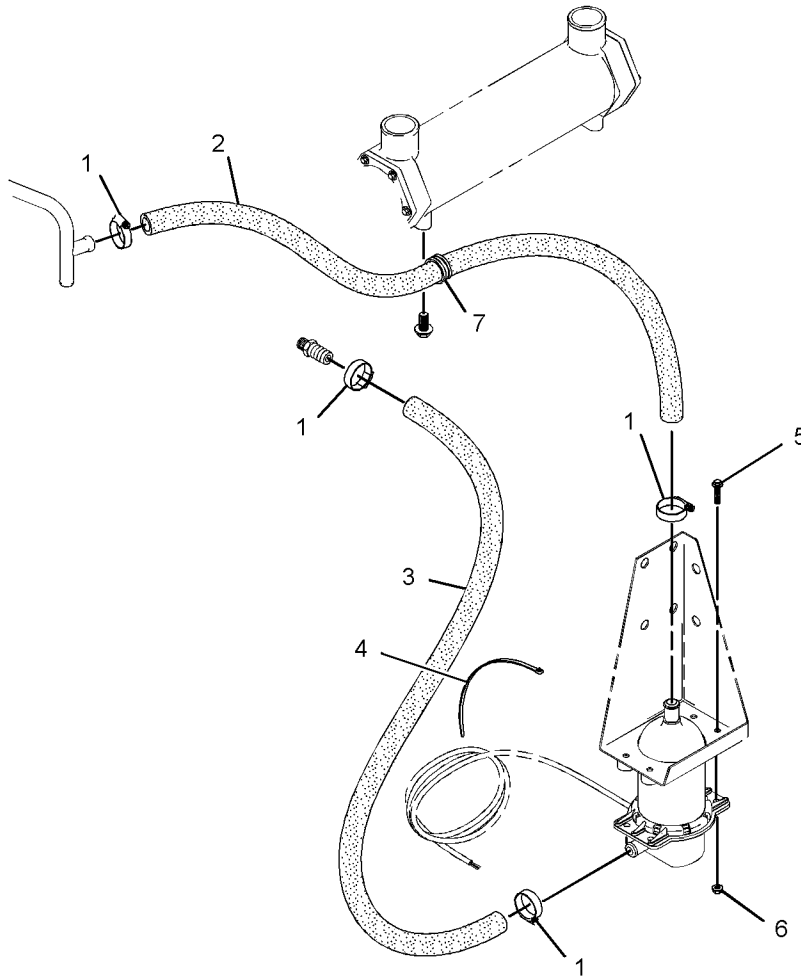
S/N: L1K1-UP; S1M1-UP

FOR USE WITH HEAT EXCHANGER COOLED, SINGLE STARTER MOTOR ENGINES FITTED
WITH A WATER JACKET HEATER. CANNOT BE USED WITH KEEL COOLED OR TWIN STARTER
MOTOR ENGINES
AN ATTACHMENT

SMCS-1296, 1383

i02309227

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	5D-1026	4	CLAMP-HOSE						
	2	1	270-6872	1	HOSE						
	3	1	214-0696	1	HOSE (0.016X0.5-M)						
	4	1	195-4615	1	STRAP						
	5	1	6I-0917	4	BOLT (M6X1X25-MM)						
	6	1	6I-0918	4	NUT (M6-THD)						
	7	1	214-0699	1	CLIP						



GRAPHIC #1

<END>

g01157336

PRIME PACKAGE

268-9203 MOUNTING GP-HEATER-WATER JACKET

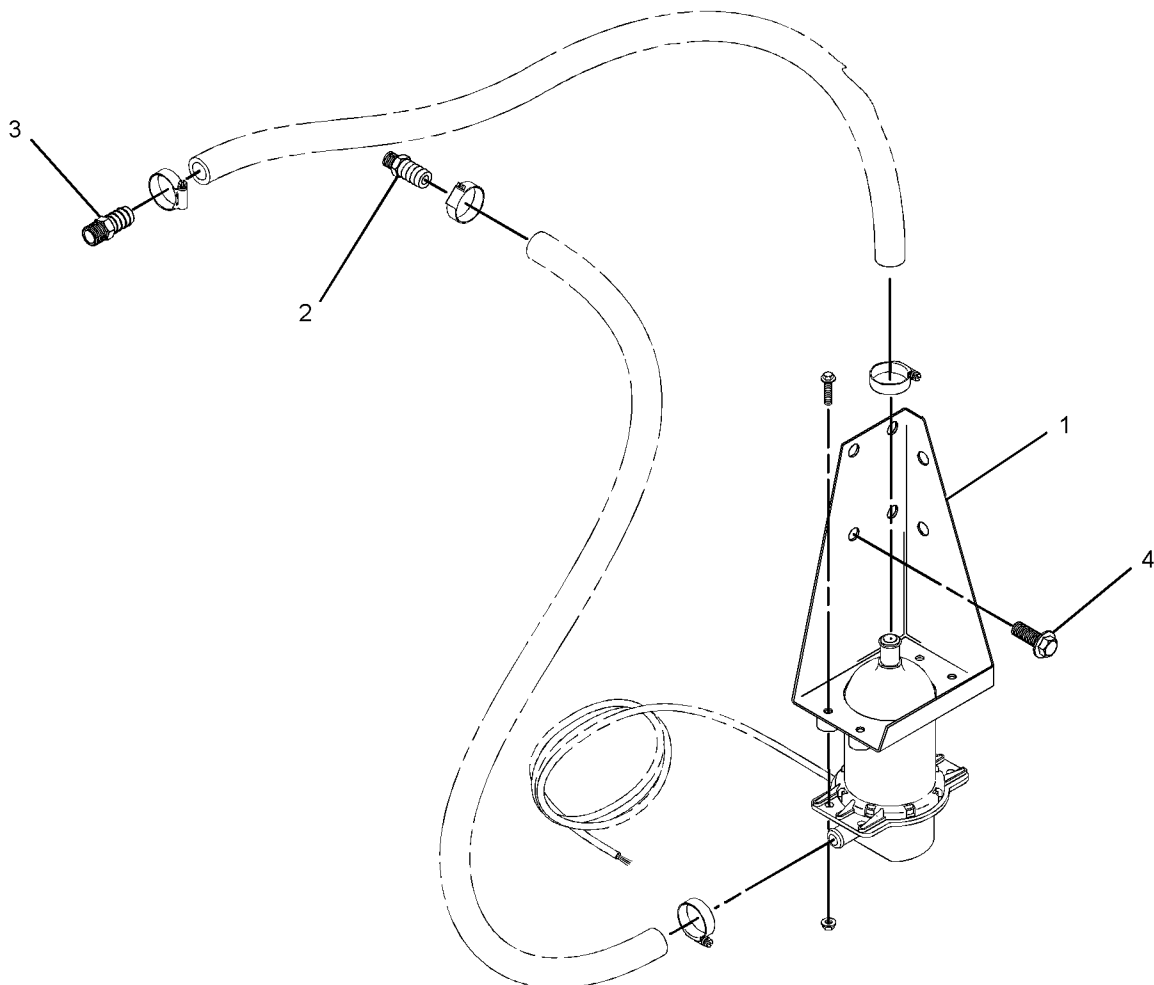
S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES, SINGLE STARTER MOTOR ENGINES
AN ATTACHMENT

SMCS-1296, 1383

i02290168

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	214-0694	1	BRACKET (MOUNTING)						
	2	1	214-0697	1	ADAPTER						
	3	1	214-4131	1	ADAPTER						
	4	1	102-9941	4	BOLT (M12X1.75X25-MM)						



GRAPHIC #1

<END>

g01147835

PRIME PACKAGE

270-8356 MOUNTING GP-HEATER-WATER JACKET

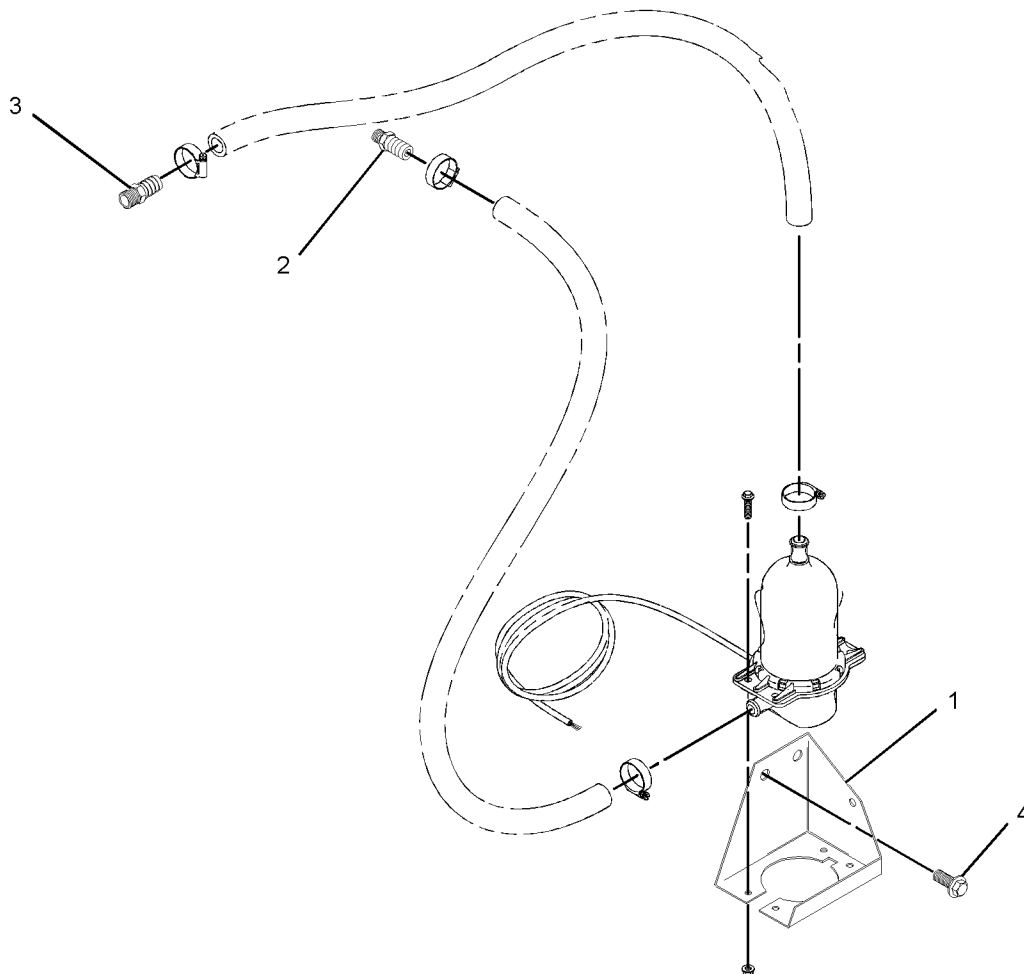
S/N: L1K1-UP; S1M1-UP

FOR USE WITH KEEL COOLED ENGINES ONLY, TWIN STARTER MOTOR ENGINES ONLY
AN ATTACHMENT

SMCS-1296, 1383

i02291542

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	214-7269	1	BRACKET						
	2	1	214-0697	1	ADAPTER						
	3	1	214-4131	1	ADAPTER						
	4	1	102-9941	2	BOLT (M12X1.75X25-MM)						



GRAPHIC #1

<END>

g01148599

PRIME PACKAGE

292-1522 RADIATOR & MOUNTING GP

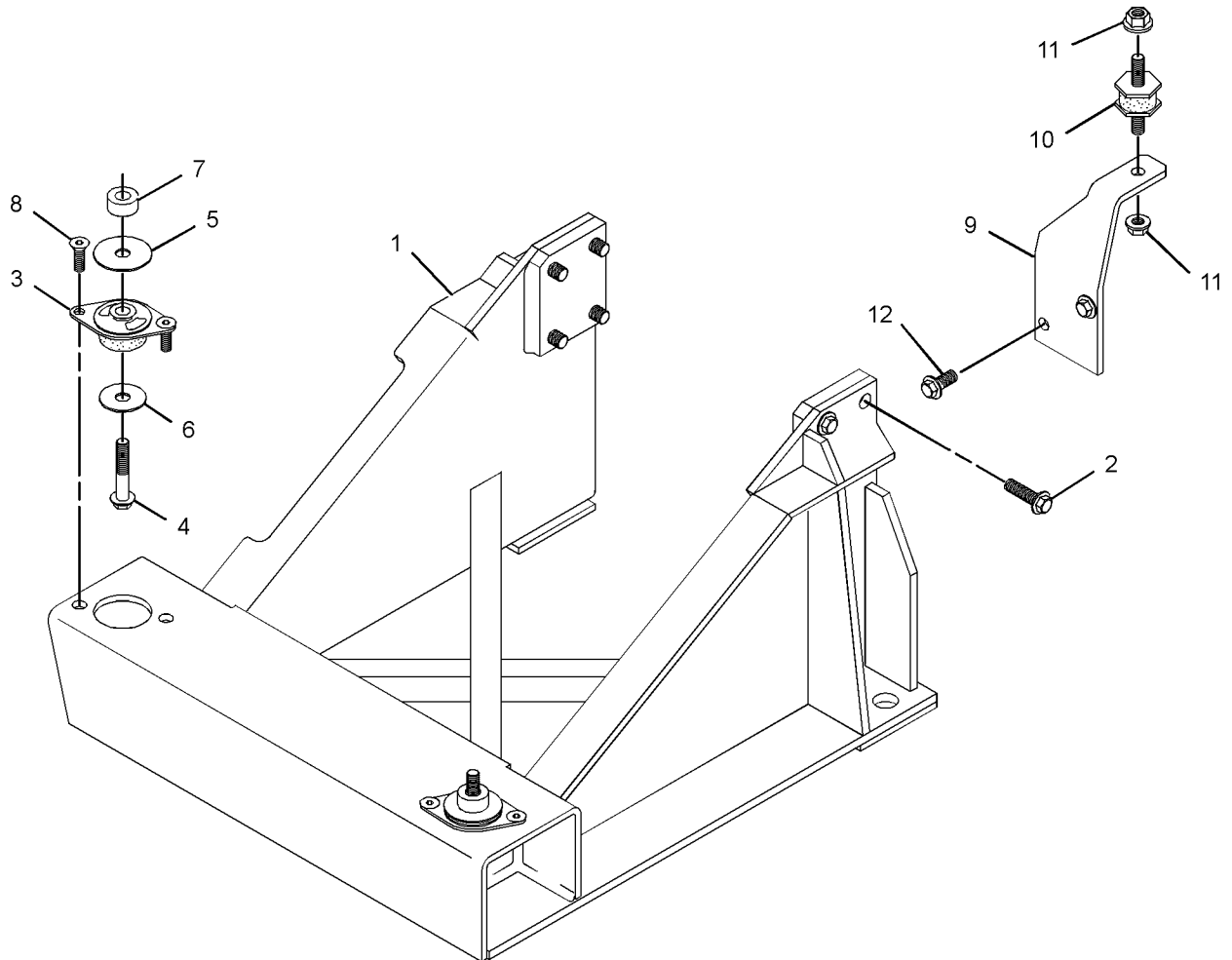
S/N: L1K1-UP; S1M1-UP
AN ATTACHMENT

SMCS-1353

i02566314

NOTE	REF NO	GRAPHIC REF	PART NUMBER	QTY	PART NAME						SEE PAGE
					1	2	3	4	5	6 (PRODUCT LEVEL)	
	1	1	296-7454	1	BRACKET - MOUNTING						
	2	1	101-7537	8	BOLT (M12X35-MM)						
	3	1	284-3413	2	MOUNT						
	4	1	105-4173	2	BOLT (M10X1.5X60-MM)						
	5	1	101-7539	2	WASHER						
	6	1	101-7540	2	WASHER						
	7	1	292-1524	2	SPACER						
	8	1	101-7541	4	BOLT						
	9	1	236-8775	1	BRACKET						
	10	1	101-7546	1	MOUNT						
	11	1	6I-0594	2	NUT (M10X1.15-THD)						
M	12	1	100-4830	2	BOLT (M10X1.5X20-MM)						

M-METRIC PART



GRAPHIC #1

<END>

g01273952

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