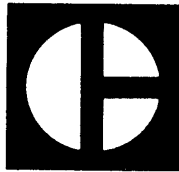


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PARTS BOOK

3406 ENGINE

SERIAL NUMBER
90U1 TO 90U439

REVISION PUBLISHED DECEMBER 1984
CATERPILLAR TRACTOR CO.
PUBLICATIONS DIV.—SERVICE G.O.
PEORIA, ILL. U.S.A.

QUICK REFERENCE GUIDE TO MAJOR SECTIONS

BASIC ENGINE

LUBRICATION SYSTEM

COOLING SYSTEM

INTAKE & EXHAUST SYSTEM

FUEL SYSTEM & GOVERNOR

STARTING & ELECTRICAL
SYSTEM

GENERATORS

ATTACHMENTS & SERVICE
EQUIPMENT

DEC-349.

ENGINE IDENTIFICATION Caterpillar engines are identified with SERIAL NUMBERS and ARRANGEMENT NUMBERS. In some cases MODIFICATION NUMBERS are also used. These numbers are shown on the serial number plate mounted on the engine. The Specification Section at the back of this Parts Book indicates the location of the serial number plate.

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

ORDERING PARTS Quality Caterpillar Replacement parts are available from Caterpillar dealers throughout the world. Their parts stocks are up to date and include all parts normally required to protect your investment in Caterpillar engines. When ordering parts, your order should specify the quantity, part number, part name and the serial number, arrangement number and modification number of the engine for which the parts are needed. If in doubt about the part number, please provide your dealer with a complete description of the needed item.

HOW TO USE THE PARTS BOOK Caterpillar Parts Books include illustrations of the groups or assemblies which make up the engine. These illustrations show the standard components plus many of the attachments available for the engine.

The alphabetical index located in the front part of the book should be used to determine the page number on which specific illustrations are shown. Reference to those pages will identify each of the individual serviceable parts.

Captions The caption under each illustration identifies the part number and name of the group or assembly shown. If more than one illustration is included for any group, the caption identifies the specific engine serial numbers to which each illustration applies. In some cases it is not possible to determine the specific engine serial numbers to which different illustrations are applicable. In those cases the caption identifies the illustration as "First Type", "Second Type", etc. Reference to the actual group or assembly is necessary in those cases to determine which illustration should be used.

Captions provide additional information such as page numbers where illustrations of sub assemblies are shown, information regarding quantities used and other information intended to assist the user in determining parts needs.

Indented Part Names Within each illustration is a parts list identifying each serviceable part in the illustration.

When a part name is indented in this list, it means that serviceable item is a part of the serviceable item under which it is indented.

Abbreviations and Symbols

▲	Used to call attention to additional	
●	information shown elsewhere with	
	in the illustration.	
R.H.	Right Hand	Refers to the side of
L.H.	Left Hand	the engine as viewed
		from the flywheel
		end.
C	Indicates changes from the previous	
	illustration of the same group or	
	assembly.	
O.D.	Outside Diameter	
I.D.	Inside Diameter	
N/S	Not Serviced	
Assem.	Assembly	
in.	Inch	
ft	Foot	
cm	Centimetre	
dm	Decimetre	

Note: Continuing improvement and advancement of product design may cause changes to your engine which may not be included in this publication. Each publication is reviewed and revised, as required, to update and include these changes in later editions.

Whenever a question arises regarding your Caterpillar product, or this publication please consult your Caterpillar dealer for the latest available information.

IDENTIFICATION Tous les moteurs Caterpillar portent un **NUMÉRO DE SÉRIE** et un **NUMÉRO DE VERSION**. Dans certains cas, ils peuvent également avoir des **NUMÉROS DE MODIFICATION**. Ces numéros figurent sur les plaques de série, sur le moteur. Pour connaître l'emplacement des plaques signalétiques, se reporter au chapitre intitulé "Specifications", à la fin du Catalogue de pièces.

Les concessionnaires Caterpillar doivent connaître tous ces numéros pour savoir quels composants ont été employés lors du montage en usine, et trouver plus facilement le numéro des pièces de rechange.

DEMANDE Les concessionnaires Caterpillar fournissent dans le monde entier des pièces de rechange Caterpillar. Les stocks de pièces sont perpétuellement remis à jour et comptent toutes les pièces nécessaires pour assurer la bonne marche de votre moteur Caterpillar. Lors des commandes de pièces, mentionnez la quantité, le numéro des pièces, le nom et le numéro de série, le numéro de version et, le cas échéant, le numéro de modification du moteur concerné. En cas de doute sur le numéro de pièce, il conviendra de fournir au concessionnaire une description complète de la pièce en question.

UTILISATION DU CATALOGUE DE PIÈCES Le Catalogue de pièces comporte des illustrations des groupes ou ensembles qui composent le moteur. Les illustrations représentent les composants standard plus les accessoires disponibles.

À début du catalogue figure un index alphabétique qui renvoie aux pages et illustrations correspondantes. Toutes les pièces du moteur avec leurs numéros figurent sur ces pages.

Légendes Chaque illustration comporte une légende comprenant le numéro de pièce et la désignation du groupe ou celle de l'ensemble. Si à un groupe donné correspondent plusieurs illustrations, la légende indiquera le numéro de série de chaque moteur spécifique. Dans ce cas, les dessins comportent la mention "Premier type", "deuxième type", etc. Pour déterminer quelles illustrations utiliser, il faudra consulter la référence du groupe ou de l'ensemble correspondant.

Les légendes indiquent également les numéros de page des plans des sous-ensembles, les parties utilisées et autres renseignements destinés à aider l'utilisateur à déterminer quelles sont les pièces nécessaires.

Numéros de pièce Chaque illustration comporte une liste des pièces qui la constituent et que l'on peut se procurer. Lorsqu'une désignation de pièce est en retrait de cette liste, cela veut dire que l'article en regard fait partie de l'ensemble sous lequel il figure.

Abréviations et symboles

▲	Symbole utilisé pour attirer l'attention sur une information supplémentaire figurant ailleurs dans l'illustration.
●	
R.H.	Côté droit Vu depuis l'extérieur.
L.H.	Côté gauche mité volant du moteur.
C	Indique les changements par rapport à l'illustration précédente représentant le même groupe ou ensemble.
O.D.	Diamètre extérieur
I.D.	Diamètre intérieur
N/S	Non remplaçable
Assem.	Ensemble
in.	pouce
ft	piéd
cm	centimètre
dm	décimètre

Nota: En raison du progrès technique et des améliorations continues apportées au matériel, votre moteur comporte peut-être des modifications qui n'apparaissent pas dans la présente publication. Les éditions ultérieures seront revues et corrigées en conséquence.

En cas de doute sur un détail de votre moteur Caterpillar ou sur le texte de la présente publication, adressez-vous à votre concessionnaire Caterpillar.

MOTORES Los motores Caterpillar se identifican por medio de NUMEROS DE SERIE. En algunos casos, también se utilizan NUMEROS DE MODIFICACION. Estos números se muestran en la placa del número de serie montada en el motor. La ubicación de las placas de números de serie se indica en la sección de Especificaciones en la parte de atrás de este Catálogo de Piezas. Los distribuidores Caterpillar necesitan estos números para poder determinar qué componentes se incluyeron en el motor cuando éste se armó en la fábrica. Esto permitirá identificación exacta de los números de pieza de los repuestos.

COMO PEDIR REPUESTOS Los distribuidores Caterpillar en todo el mundo tienen disponibles piezas de repuesto Caterpillar de calidad. Sus existencias están actualizadas e incluyen todas las piezas normalmente requeridas para proteger su inversión en motores Caterpillar. Al pedir repuestos, especifique en su pedido la cantidad, el número de pieza, el nombre de la pieza y el número de serie, el número de disposición y cualquier número de modificación del motor para el cual se necesitan los repuestos. Si tiene dudas con respecto al número de pieza, suministre al distribuidor una descripción completa de la pieza que necesita.

COMO USAR ESTE CATALOGO Los Catálogos de Piezas Caterpillar tienen las ilustraciones de los grupos o conjuntos que componen el motor. Estas ilustraciones muestran los componentes estándar además de muchos de los accesorios disponibles para el motor.

Se debe utilizar el índice alfabético en la parte anterior de este catálogo para determinar el número de la página en la que aparecen las ilustraciones correspondientes. En dichas páginas se identifica cada una de las piezas que se suministran.

Títulos El título debajo de cada ilustración identifica el número de pieza y el nombre del grupo o conjunto indicado. Si para cualquier grupo se incluye más de una ilustración, el título identifica los números de serie del motor correspondientes a cada ilustración. En algunos casos no es posible determinar los números de serie del motor correspondientes a las diferentes ilustraciones. En esos casos, el título identifica la ilustración como "Primer tipo", "Segundo tipo", etc. Es necesario referirse al grupo o conjunto en sí en estos casos para determinar qué ilustración se debe utilizar.

Los títulos suministran información adicional, tal como los números de las páginas en que aparecen las ilustraciones de los subconjuntos, las cantidades utilizadas y demás datos para ayudar al usuario a determinar las piezas o repuestos que necesita.

Nombres de pieza indentados Dentro de cada ilustración aparece una lista de piezas que identifica cada pieza que se suministra indicada en la ilustración. Cuando el nombre de una pieza aparece indentado en esta lista, significa que esta pieza forma parte del artículo que se suministra debajo del cual se ha indentado.

Abreviaturas y símbolos

▲ Utilizado para indicar que hay información adicional al respecto en alguna otra parte de la ilustración.
●
R.H. Lado derecho. Se refiere al lado
L.H. Lado izquierdo. del motor, visto desde el extremo correspondiente al volante.

C Indica cambios con respecto a la ilustración anterior del mismo grupo o conjunto.
O.D. Diámetro exterior
I.D. Diámetro interior
N/S No se suministra
Assem. Conjunto
in. Pulgada
ft Pie
cm Centímetro
dm Décímetro

Nota: Las continuas mejoras y los avances en el diseño de los productos podrían haber causado cambios en su motor que tal vez no estén incluidos en esta publicación. Cada publicación se revisa y actualiza, según sea necesario, para incluir estos cambios en ediciones posteriores.

Cuando tenga alguna pregunta con respecto a su motor Caterpillar, o a esta publicación, sírvase consultar al distribuidor Caterpillar a fin de obtener la información más reciente.

IDENTIFICAÇÃO DO MOTOR Os motores Caterpillar são identificadas por NÚMEROS DE SÉRIE e DO ARRANJO. Em alguns casos há ainda um NÚMERO DA MODIFICAÇÃO. Esses números estão escritos na placa do número de série que existe no motor. A localização dessa placa está indicada na secção de Especificações, na parte de trás deste catálogo.

Os revendedores Caterpillar necessitam esses números para determinar que componentes foram originalmente instalados no motor. Isto permite uma identificação extra dos números das peças sobressalentes.

COMO OBTER PEÇAS Os revendedores Caterpillar no mundo inteiro têm disponíveis peças sobressalentes Caterpillar, de qualidade. Os seus estoques são atualizados e incluem todas as peças normalmente necessárias para proteger o seu investimento nos produtos Caterpillar. Ao fazer um pedido de peças especifique a quantidade, o número de referência e o nome de cada peça, bem como o número de série, do arranjo e da modificação (se houver) do motor a que as peças se destinam. Se tiver dúvida quanto ao número de referência duma peça, dê ao seu revendedor uma descrição completa do item desejado.

COMO USAR O CATÁLOGO DE PEÇAS Os catálogos de peças Caterpillar incluem ilustrações dos grupos ou conjuntos de que se compõem os motores. Estas ilustrações mostram os componentes standard e muitos dos acessórios disponíveis para eles.

do o nome da peça aparece embutido (mais para dentro), significa que a peça pode ser obtida separadamente, porém já está incluída no item sob o qual o nome está embutido.

Abreviaturas e Símbolos

- ▲ Usados para indicar que existem informações adicionais em outra parte da ilustração.
-
- R.H. "Right Hand" (Lado Direito)
- L.H. "Left Hand" (Lado Esquerdo) (Referem-se ao lado do motor visto desde o volante.)
- C "Change". Indica modificação da ilustração anterior do mesmo grupo ou conjunto.
- O.D. "Outside Diameter" (Diâm. externo)
- I.D. "Inside Diameter" (Diâm. interno)
- N/S "Not Serviced" (Não disponível separadamente)
- Assem. "Assembly" (Conjunto)
- in. "inch" (polegada)
- ft "foot" (pé de comprimento — 30,5 cm)

O índice alfabético no início do catálogo dá o número da primeira página em que se encontra uma determinada ilustração. Vendo nestas páginas se pode identificar cada uma das peças individuais que existe à venda.

Legendas das Ilustrações A legenda de cada ilustração identifica o número e o nome do grupo mostrado. Se houver mais de uma ilustração para o mesmo grupo, a legenda indicará os números de série a que cada uma se aplica. Às vezes não é possível determinar os números de série específicos para um grupo de ilustrações. Em tais casos as legendas as identificam como "First Type" (Primeiro Tipo), "Second Type" (Segundo Tipo), etc. Será então necessário referir-se ao grupo ou conjunto real para saber qual a ilustração que se aplica.

As legendas dão ainda informações adicionais, tais como os números de páginas onde ilustrações de sub conjuntos são encontradas, informações sobre quantidades usadas e outras mais que possam ajudar no pedido de peças.

Nomes de Peças Embutidos Cada ilustração apresenta uma lista de todas as peças correspondentes que existem à venda individualmente. Quan-

Nota: O contínuo processo de desenvolvimento e melhoria dos produtos pode ocasionar mudanças em seu equipamento que não estejam ainda incluídas neste catálogo. Cada nova edição é revisada para atualizar e incluir estas modificações.

Quando em dúvida sobre o seu produto Caterpillar, ou esta publicação, consulte o seu Revendedor Caterpillar para obter a última informação disponível.

MOTOR-IDENTIFIKATION Alle Caterpillar-Motoren werden durch SERIENNUMMERN (SERIAL NUMBERS) und BAUGRUPPENNUMMERN (ARRANGEMENT NUMBERS) identifiziert. In einigen Fällen wurden ihnen auch ÄNDERUNGSNUMMERN (MODIFICATION NUMBERS) gegeben. Diese Nummern befinden sich auf der Seriennummernplatte am Motor. Die Lage dieser Platte wird im Abschnitt "Specifications" dieses Parts Book angegeben.

Die Caterpillar-Händler benötigen diese Nummern, um festzustellen, welche Bauteile bei der Montage des Motors im Werk verwendet wurden, und um die richtigen Ersatzteilnummern für den zu können.

BESTELLEN VON ERSATZTEILEN Caterpillar-Ersatzteile von hoher Qualität sind bei den Caterpillar-Händler weltweit erhältlich. Ihre Ersatzteillager befinden sich auf dem neuesten Stand und es sind alle Teile lieferbar, die normalerweise nötig sind, um zu garantieren, daß sich der Kauf Ihres Caterpillar-Motors gelohnt hat. Bei der Bestellung von Teilen müssen Anzahl, Teilnummer, Bezeichnung und die Seriennummer, Baugruppennummer und gegebenenfalls die Änderungsnummer des Motors angegeben werden, für das die Teile benötigt werden. Kann die Seriennummer nicht genau festgestellt werden, muß der Händler eine genaue Beschreibung des benötigten Teils erhalten.

GEBRAUCH DES PARTS BOOK In den Caterpillar Parts Books befinden sich Abbildungen der Baugruppen, aus denen sich der Motor zusammensetzt. Diese Abbildungen zeigen die Standardbauteile und viele der für den Motor lieferbaren Zusatzausrüstungen.

Das alphabetische Inhaltsverzeichnis vorn im Buch wird verwendet, um die Seite festzustellen, auf der sich eine bestimmte Abbildung befindet. Durch Bezugnahme auf diese Seiten kann jedes der zu liefernden Teile identifiziert werden.

Bildlegenden Die Legende unter jeder Abbildung gibt die Nummer und Bezeichnung des Teils oder der Baugruppe an. Wenn sich mehr als eine Abbildung einer bestimmten Baugruppe im Buch befindet, werden in der Bildlegende die genauen Seriennummern der Motoren aufgeführt, auf die sich die Abbildung bezieht. In einigen Fällen ist es nicht möglich, die Seriennummern der Motoren festzustellen, auf die sich verschiedene Abbildungen beziehen. In der Bildunterschrift werden diese Abbildungen mit "Type 1", "Type 2" usw. identifiziert. In diesem Fall muß Bezug auf das Teil oder die Baugruppe genommen werden, um festzustellen, welche Abbildung verwendet werden muß.

Weiterhin geben die Bildlegenden Auskunft über die Seiten, auf denen Teilgruppen gezeigt werden, über die Anzahl usw.; dies soll dem Verbraucher bei der Wahl der benötigten Teile helfen.

Eingerückte Teilebezeichnungen In jeder Abbildung befindet sich eine Ersatzteilnummer, in der alle lieferbaren Teile aufgeführt werden. Wenn eine Bezeichnung in der Liste eingerückt ist, bedeutet dies, daß das entsprechende Teil zu der Gruppe gehört, unter der es eingerückt wurde.

Abkürzungen und Symbole

- ▲ Weisen darauf hin, daß sich an einer anderen Stelle der Abbildung zusätzliche Angaben befinden.
-
- R.H. rechts Die entsprechende Seite des Motors vom Schwungrad aus gesehen.
- L.H. links
- C Bezeichnet Änderungen gegenüber der vorherigen Abbildung desselben Teils oder derselben Baugruppe.
- O.D. Äußerer Durchmesser
- I.D. Innerer Durchmesser
- N/S Nicht lieferbar
- Assem. Zusammengesetztes Teil
- in. Zoll
- ft Fuß
- cm Zentimeter
- dm Dezimeter

Hinweis: Verbesserungen, die ständig an unseren Motoren vorgenommen werden, können Änderungen an Ihrem Motor zur Folge haben, die möglicherweise in dieser Veröffentlichung nicht erwähnt sind. Jede Veröffentlichung wird nach Bedarf überarbeitet und erneuert. Änderungen werden in späteren Ausgaben berücksichtigt.

Wenn Sie Fragen in bezug auf Ihren Caterpillar-Motor oder diese Veröffentlichung haben, wenden Sie sich bitte an Ihren Caterpillar-Händler.

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CANCELLATIONS TO 4N2238 BASIC ENGINE ARRANGEMENT

INLET MANIFOLD
 CYLINDER HEAD
 AIR LINES
 CONNECTING ROD AND PISTON
 GOVERNOR AND FUEL INJECTION PUMP
 FUEL INJECTION LINES
 COOLING SYSTEM COVER
 CYLINDER BLOCK COVER

4N4238 ENGINE PROCUREMENT ARRANGEMENT

Provides prechambered, turbocharged, aftercooled engine. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

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4N2238 BASIC ENGINE ARRANGEMENT—Part 1 of 2
 Serial No. 90U1 to 90U316 inclusive. Also part of 4N4238 and 4N6191 Engine
 Procurement Arrangements listed on Pages 13 and 16. NOTE: WHEN ORDERING
 PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

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 Serial No. 90U1 to 90U316 inclusive. Also part of 4N4238 and 4N6191 Engine
 Procurement Arrangement listed on Pages 13 and 16. NOTE: WHEN ORDERING
 PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

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1	4N741 CRANKSHAFT GROUP	19
1	6N1406 CAMSHAFT GROUP	22
6	4N764 CONNECTING ROD AND PISTON GROUP	21
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1	4N2274 FRONT GEAR GROUP	29
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 Serial No. 90U317—Up. Also part of 4N4238 & 4N6191 Engine Procurement
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 ARRANGEMENT NUMBER AND SERIAL NUMBER



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1	9N685 COOLING SYSTEM COVER GROUP	51
<u>INTAKE AND EXHAUST SYSTEM</u>		
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1	4N5394 TURBOCHARGER OIL LINES GROUP	89
1	4N9052 INLET MANIFOLD GROUP	99
<u>FUEL SYSTEM AND GOVERNOR</u>		
1	4N2482 GOVERNOR AND FUEL INJECTION PUMP GROUP .	111
1	4N1661 FUEL INJECTION LINES GROUP	107
1	4N3949 FUEL TRANSFER PUMP GROUP	109B
1	4N3287 FUEL PRIMING PUMP GROUP	109
1	4N1981 FUEL FILTER GROUP	104
1	4N8008 GOVERNOR AND FUEL PUMP DRIVE GROUP	110A
1	4N4079 FUEL FILTER LINES GROUP	105
	- OR -	
1	6N2172 FUEL FILTER LINES	105B
1	4N8048 FUEL SYSTEM COVER GROUP	106
<u>ATTACHMENT AND SERVICE EQUIPMENT</u>		
1	4N1366 SERVICE METER GROUP	207
NOTE: SERIAL NUMBER PLATE IS FASTENED WITH 2--4B4158 DRIVE SCREWS AND LOCATED ON L.H. SIDE OF CYLINDER BLOCK.		

4N2238 BASIC ENGINE ARRANGEMENT—Part 2
Serial No. 90U317—Up. Also part of 4N4238 & 4N6191 Engine Procurement
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ARRANGEMENT NUMBER AND SERIAL NUMBER

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SERIAL No. 90U1 TO 90U316 INCLUSIVE		

CANCELLATIONS TO 4N2238 ENGINE ARRANGEMENT

CYLINDER HEAD
 INLET MANIFOLD
 AIR LINES
 CONNECTING ROD AND PISTON
 GOVERNOR AND FUEL INJECTION PUMP
 FUEL INJECTION LINES
 TURBOCHARGER OIL LINES
 EXHAUST MANIFOLD
 WATER LINES
 COOLING SYSTEM COVER
 TURBOCHARGER

4N6191 ENGINE PROCUREMENT ARRANGEMENT

Provides arrangement with prechambered, turbocharged, aftercooled marine auxiliary. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

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1	4N2238 BASIC ENGINE ARRANGEMENT.....	14
3	3N3892 DUMMY GLOW PLUG GROUP.....	162
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1	6N2012 DUMMY GLOW PLUG GROUP.....	162A
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1	4N2260 CYLINDER HEAD GROUP.....	24
1	4N2474 WATER LINES GROUP--AFTERCOOLER.....	46
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1	4N4075 WATER LINES GROUP--TURBOCHARGER COOLING..	43
1	4N4077 WATER AFTERCOOLER GROUP.....	47
1	4N4078 AIR LINES GROUP.....	98
1	4N5466 WATER LINES GROUP.....	45
1	4N5489 COOLING SYSTEM COVER GROUP.....	51
1	4N8879 GOVERNOR AND FUEL INJECTION PUMP GROUP...	112B

CANCELLATIONS TO 4N2238 BASIC ENGINE ARRANGEMENT

CYLINDER HEAD
 CONNECTING ROD AND PISTON
 GOVERNOR AND FUEL INJECTION PUMP
 FUEL INJECTION LINES
 TURBOCHARGER OIL LINES
 EXHAUST MANIFOLD
 WATER LINES
 TURBOCHARGER
 WATER AFTERCOOLER
 AIR LINES
 INLET MANIFOLD
 CYLINDER BLOCK COVER
 COOLING SYSTEM COVER

6N460 ENGINE PROCUREMENT ARRANGEMENT

Provides for a prechambered, turbocharged, aftercooled, 1800 RPM Electric Set
 Industrial Engine with water cooled manifold and turbocharger. NOTE: WHEN
 ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

CONSISTS OF:		PAGE
1	4N2238 BASIC ENGINE ARRANGEMENT	14
1	4N2260 CYLINDER HEAD GROUP	24
3	3N3892 DUMMY GLOW PLUG GROUP	162
- OR -		
1	6N2012 DUMMY GLOW PLUG GROUP	162A
6	4N758 CONNECTING ROD AND PISTON GROUP	21
1	4N8879 GOVERNOR AND FUEL INJECTION PUMP GROUP	112B
1	4N1662 FUEL INJECTION LINES GROUP	108
1	4N9010 WATER AFTERCOOLER GROUP	48
1	4N2474 WATER LINES GROUP--AFTERCOOLER	46
1	4N4216 AIR LINES GROUP	97
1	9N684 CYLINDER BLOCK COVER GROUP	17B
CANCELLATIONS TO 4N2238 BASIC ENGINE ARRANGEMENT		
CYLINDER HEAD	INLET MANIFOLD	
CONNECTING ROD AND PISTON	AIR LINES	
GOVERNOR AND FUEL INJECTION PUMP	CYLINDER BLOCK COVER	
FUEL INJECTION LINES	COOLING SYSTEM COVER	

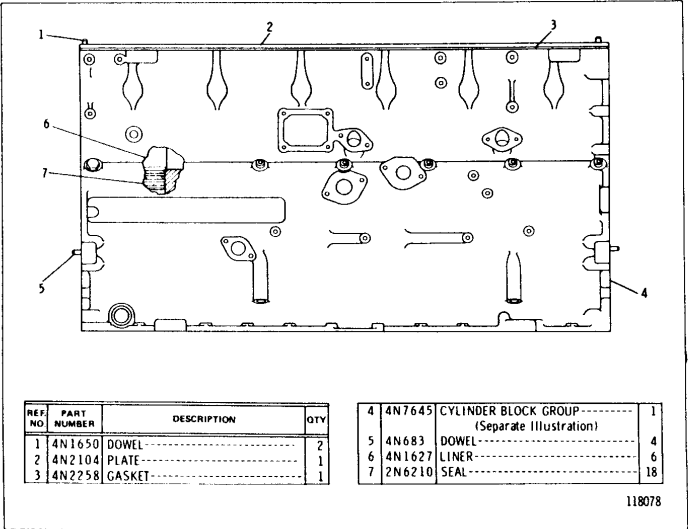
6N458 ENGINE PROCUREMENT ARRANGEMENT

Provides for a prechambered, turbocharged, aftercooled, 1800 RPM Electric Set
 NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER
 AND SERIAL NUMBER

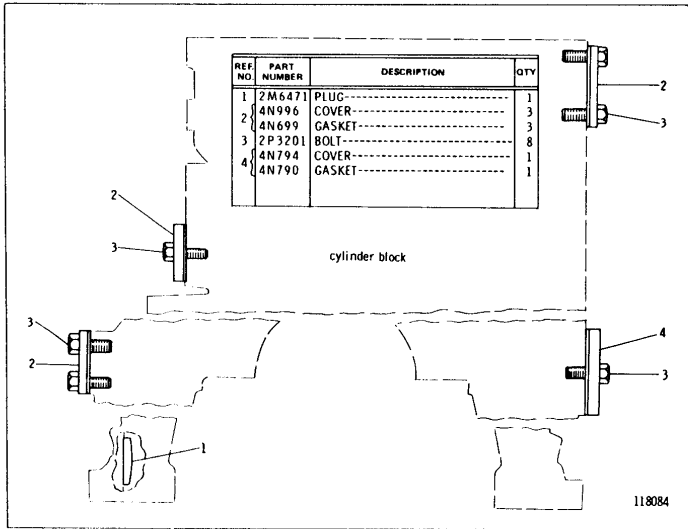
CONSISTS OF:		PAGE
1	4N2238 BASIC ENGINE ARRANGEMENT	14
1	4N2260 CYLINDER HEAD GROUP	24
3	3N3892 DUMMY GLOW PLUG GROUP	162
- OR -		
1	6N2012 DUMMY GLOW PLUG GROUP	162A
6	4N758 CONNECTING ROD AND PISTON GROUP	21
1	4N8878 GOVERNOR AND FUEL INJECTION PUMP GROUP	112A
1	4N1662 FUEL INJECTION LINES GROUP	108
1	6N1512 SERVICE METER GROUP	206A
1	4N9010 WATER AFTERCOOLER GROUP	48
1	4N2474 WATER LINES GROUP--AFTERCOOLER	46
1	4N4216 AIR LINES GROUP	97
1	9N684 CYLINDER BLOCK COVER GROUP	17B
CANCELLATIONS TO 4N2238 BASIC ENGINE ARRANGEMENT		
CYLINDER HEAD	SERVICE METER	
CONNECTING ROD AND PISTON	INLET MANIFOLD	
GOVERNOR AND FUEL INJECTION PUMP	AIR LINES	
FUEL LINES	CYLINDER BLOCK COVER	
COOLING SYSTEM COVER		

6N459 ENGINE PROCUREMENT ARRANGEMENT

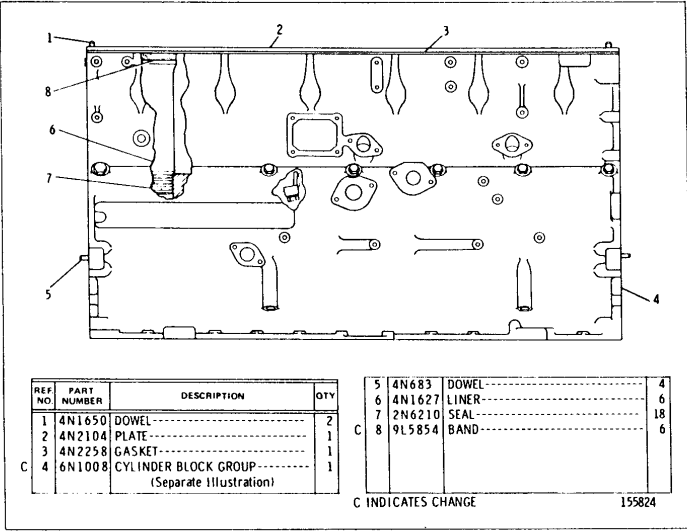
Provides for a prechambered, turbocharged, aftercooled, 1500 RPM Electric Set
 NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER
 AND SERIAL NUMBER



4N2257 CYLINDER BLOCK GROUP
Serial No. 90U1 to 90U280 inclusive
4N7645 Cylinder Block parts are shown on Page 18
Refer to Page 26A for special parts



9N15 CYLINDER BLOCK COVER GROUP
Serial No. 90U1 to 90U280 inclusive

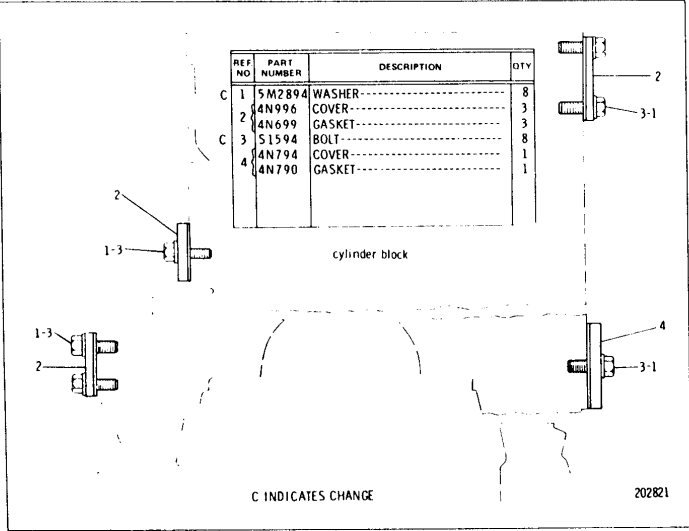


4N2257 CYLINDER BLOCK GROUP

Serial No. 90U281—Up

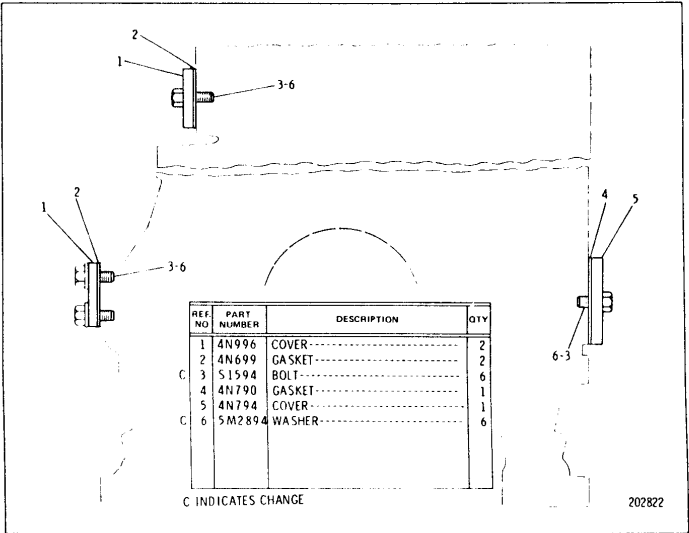
6N1008 Cylinder Block parts are shown on Pages 18A & 18B

Refer to Page 26A for special parts

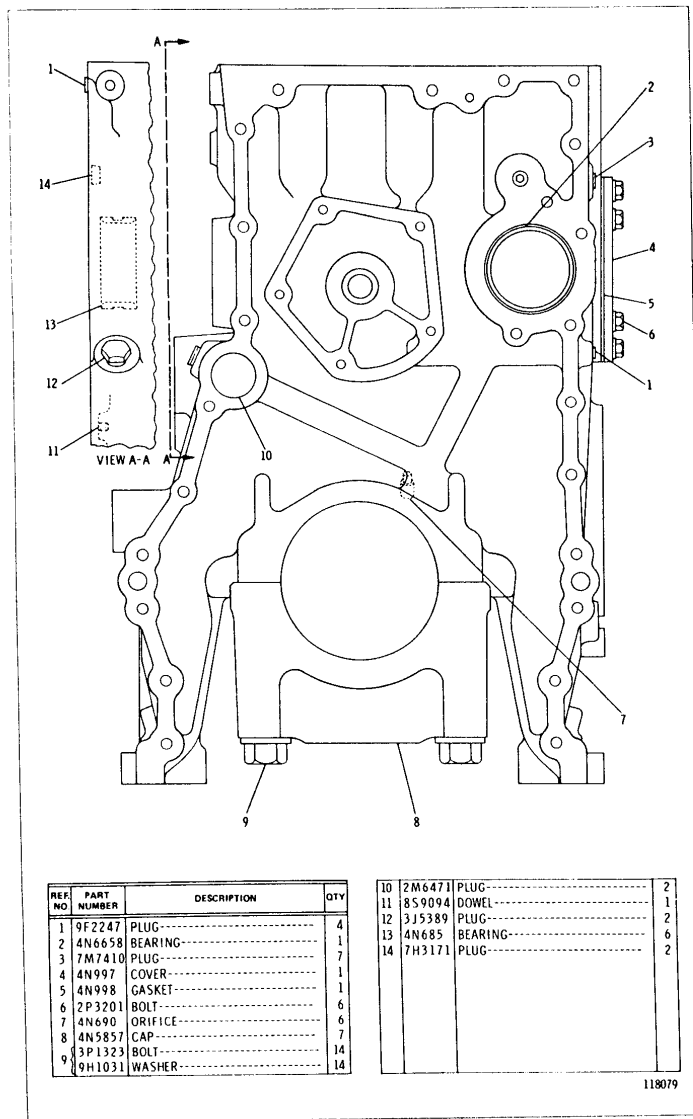


9N15 CYLINDER BLOCK COVER GROUP

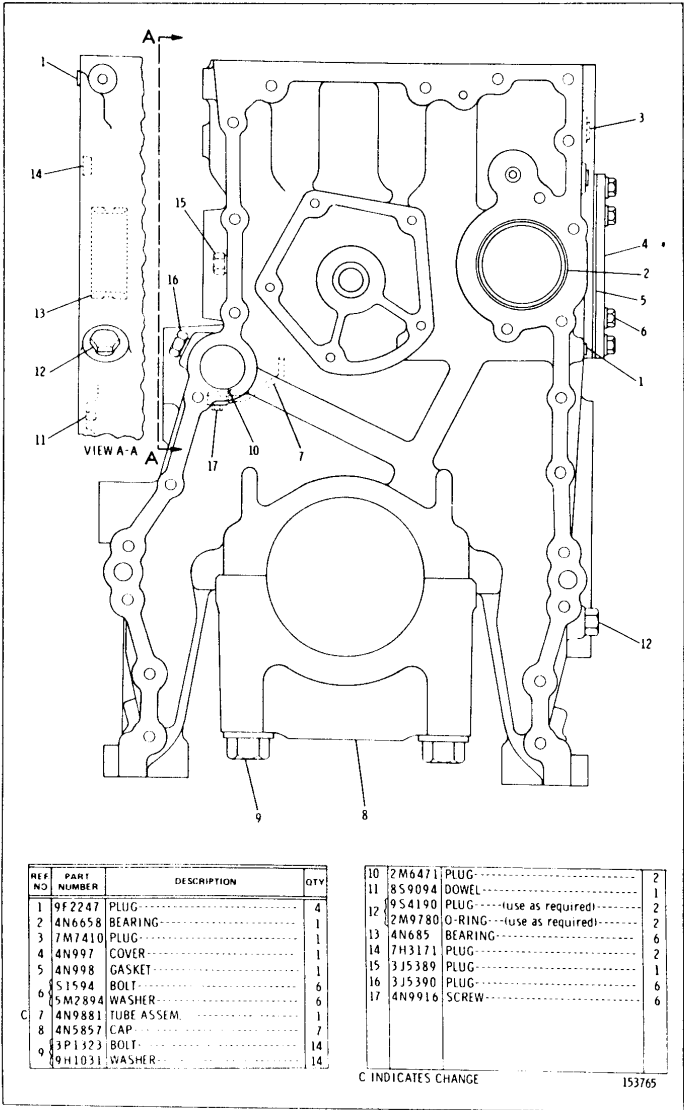
Serial No. 90U281—Up



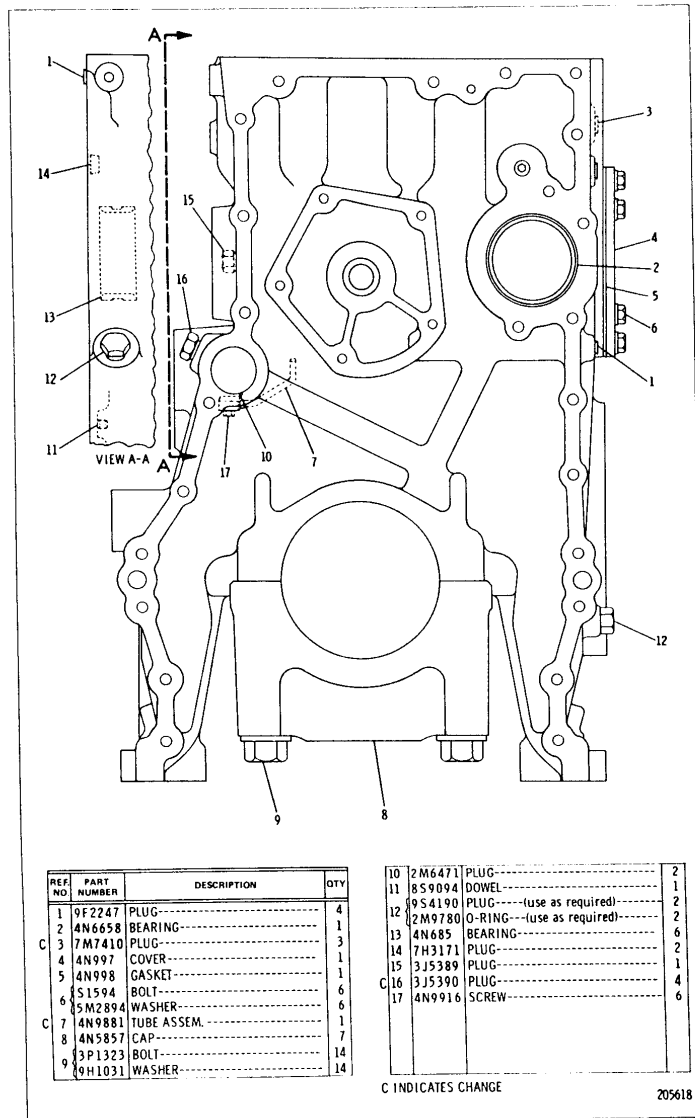
9N684 CYLINDER BLOCK COVER GROUP
Part of 4N4238, 6N459 and 6N460 Engine Procurement Arrangements listed on Pages 13 and 16B. Note: Covers opening available for Aftercooler Water Return Only separate parts serviced



4N7645 CYLINDER BLOCK ASSEMBLY
 Serial No. 90U1 to 90U280 inclusive
 Part of 4N2257 Cylinder Block Group shown on Page 17



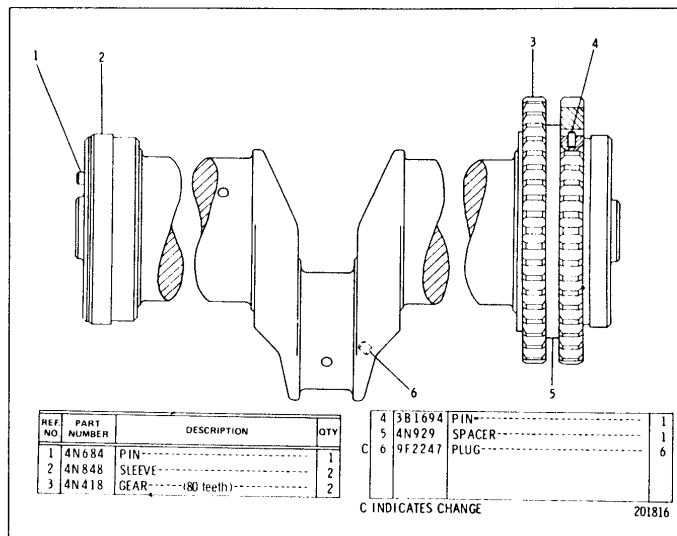
6N1008 CYLINDER BLOCK GROUP
 Serial No. 90U281 to 90U309 inclusive
 Part of 4N2257 Cylinder Block Group shown on Page 17A



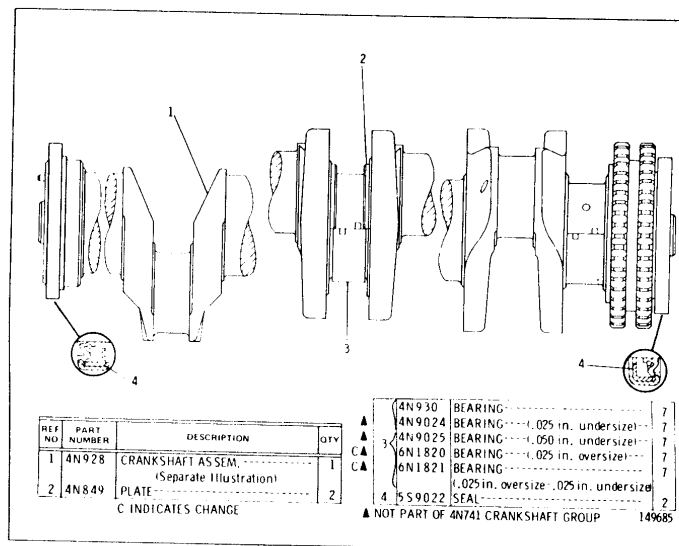
6N1008 CYLINDER BLOCK GROUP

Serial No. 90U310—Up

Part of 4N2257 Cylinder Block Group shown on Page 17A

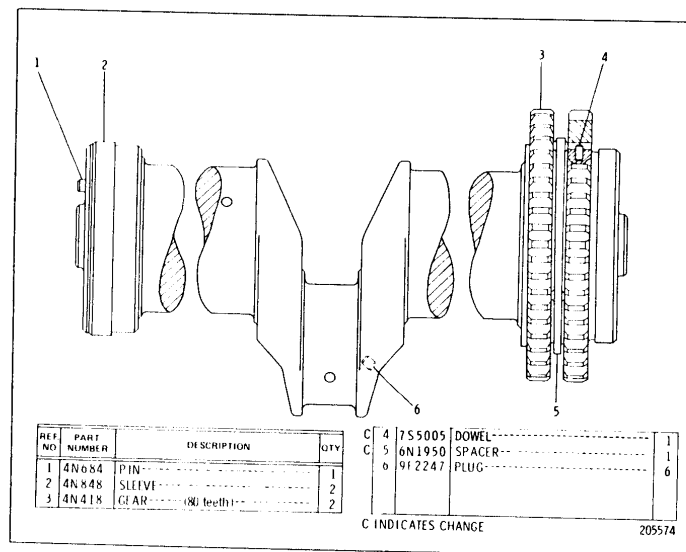


4N928 CRANKSHAFT ASSEMBLY
 Serial No. 90U1 to 90U276 inclusive
 Part of 4N741 Crankshaft Group shown on Page 19



4N741 CRANKSHAFT GROUP

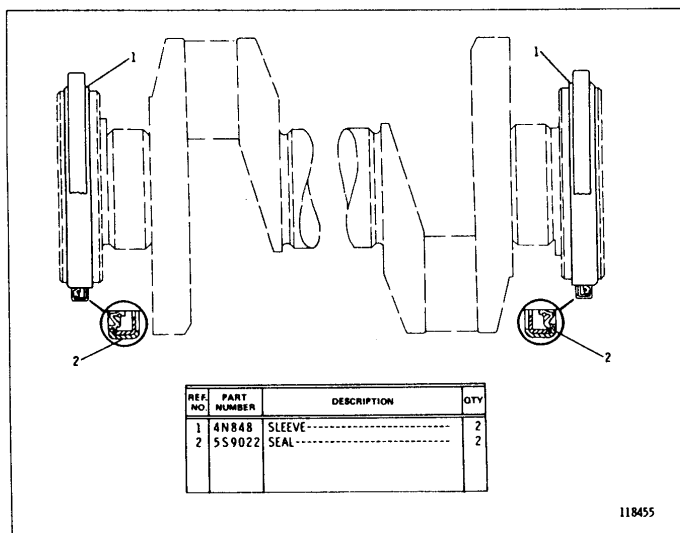
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A. 4N928 Crankshaft is shown on Pages 18C and 19. Only separate parts serviced



4N928 CRANKSHAFT ASSEMBLY

Serial No. 90U277—Up

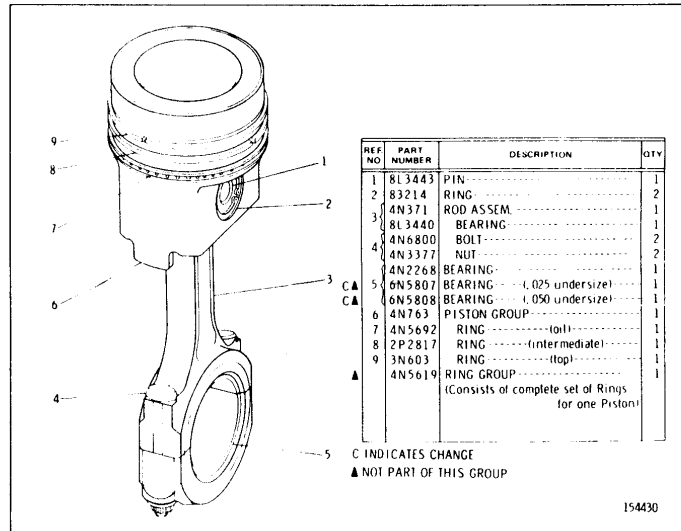
Part of 4N741 Crankshaft Group



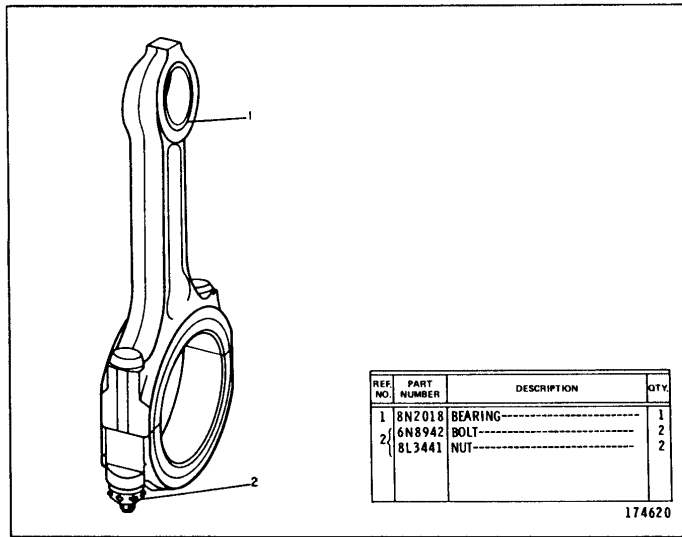
4N2259 CRANKSHAFT SEAL GROUP
Serial No. 90U1 to 90U316 inclusive

TYPE OF GASKET KIT	GASKET KIT NUMBER	FOR USE WITH ENGINE ARRANGEMENT
VALVE GRINDING	5P8052	4N2238
	5P8365	4N4238, 6N458 & 6N459
	5P8320	4N6191 & 6N460
CENTRAL & LOWER STRUCTURE	5P8054	ALL
FRONT STRUCTURE	8T4845	ALL
REAR STRUCTURE	5P8056	ALL
SINGLE CYLINDER LINER	5P8057	ALL
WATER PUMP	5P8058	ALL
WATER LINES & OIL COOLER-TO BE USED WITH NEW OR EX-CHANGED WATER PUMP	5P8059	ALL
TURBOCHARGER INSTALLATION	5P8390	4N2238, 4N4238, 6N458 & 6N459
	5P8326	4N6191 & 6N460
FUEL SYSTEM	5P8214	ALL
AFTERCOOLER & AFTERCOOLER WATER LINES	5P8060	4N2238, 4N4238, 6N458 & 6N459
	5P8325	4N6191 & 6N460

GASKET KITS

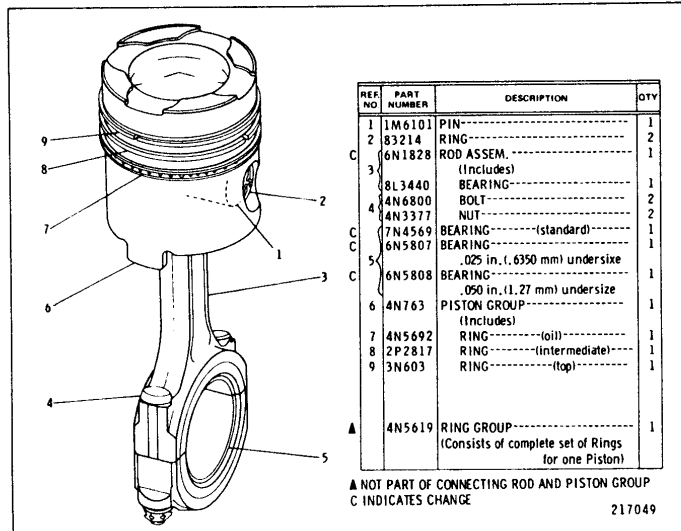


4N764 CONNECTING ROD AND PISTON GROUP—6 Required
Serial No. 90U1 to 90U224 inclusive. Part of 4N2238 Basic Engine Arrangement
listed on Page 14. Only separate parts serviced

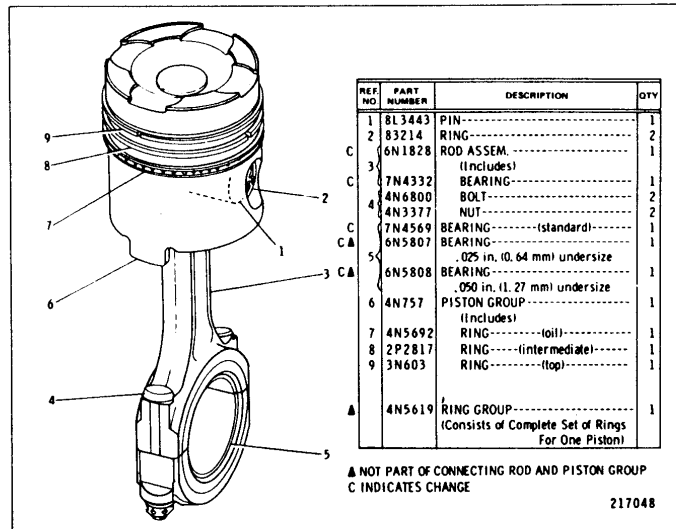


8N2486 CONNECTING ROD ASSEMBLY

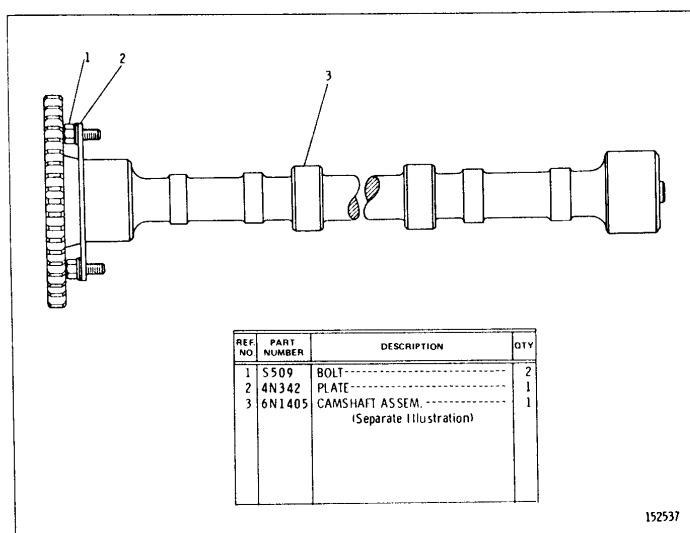
Serial No. 90U225—Up. Field Replacement for 6N1828 Rod Assembly—Page 21



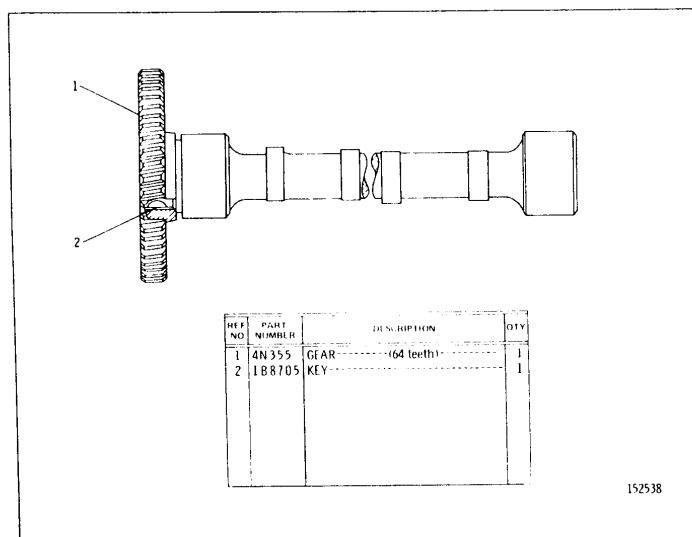
4N764 CONNECTING ROD AND PISTON GROUP—6 Required
 Serial No. 90U225—Up. For Field Replacement of 6N1828 Rod Assembly order
 8N2486 Rod Assembly—Page 20B



4N758 CONNECTING ROD AND PISTON GROUP—6 Required
 For Field Replacement of 6N1828 Rod Assembly order 8N2486
 Rod Assembly—Page 20B

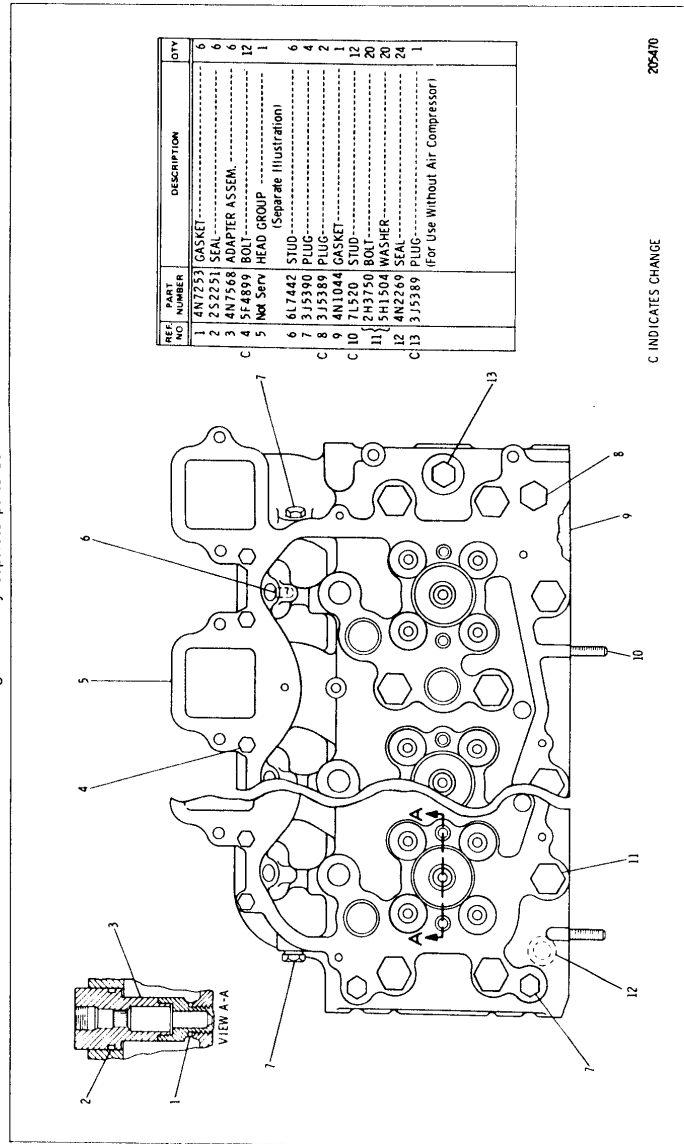


CAMSHAFT (6N1406 N/S)
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A



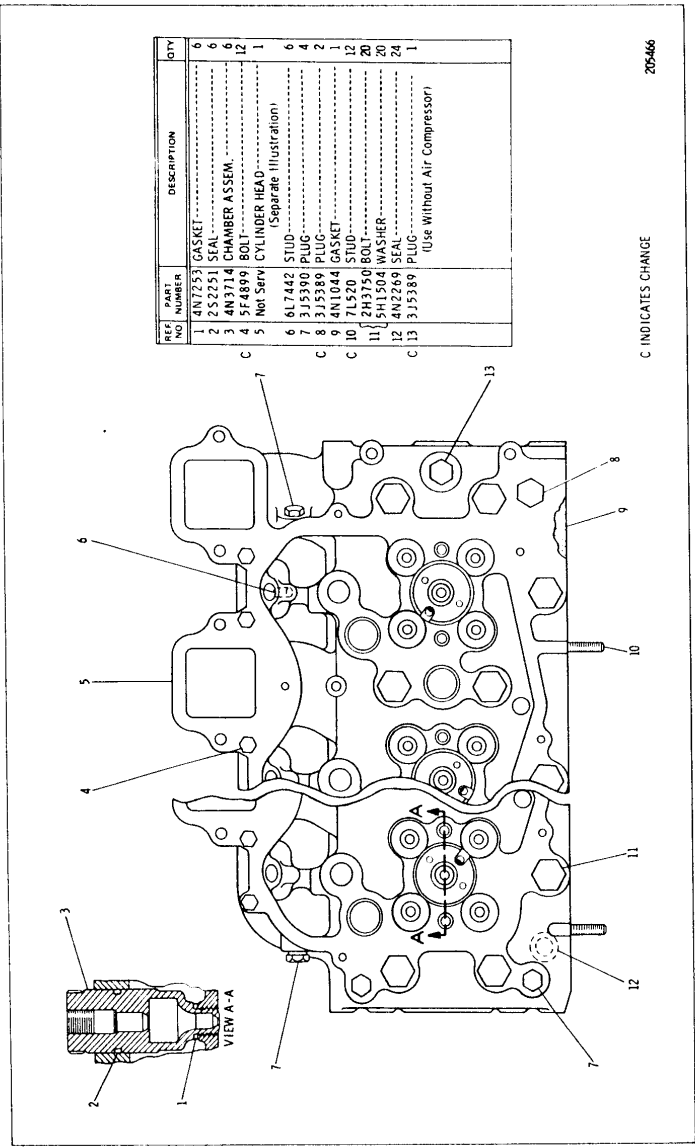
6N1405 CAMSHAFT ASSEMBLY
Part of Camshaft

4N2270 CYLINDER HEAD GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A. Head Group parts are shown
on Page 25. Only separate parts serviced



C INDICATES CHANGE

205470



C INDICATES CHANGE

205466

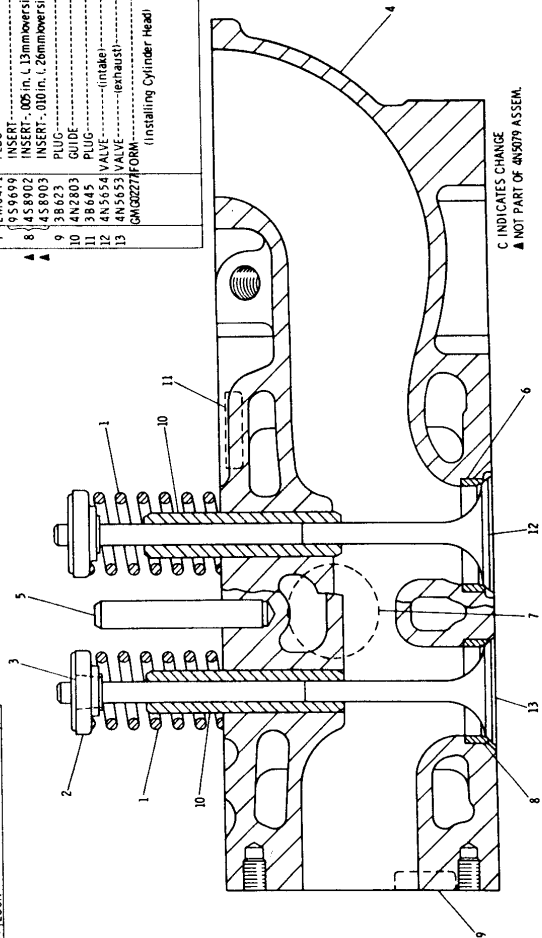
4N2260 CYLINDER HEAD GROUP
4N4238, 4N6191, 6N460, 6N459 and 6N458 Engine Procurement Arrangements
listed on Pages 13, 16, 16A and 16B. Only separate parts serviced

CYLINDER HEAD (4N749 N/S)
Part of 4N2270 and 4N2260 Cylinder Head Groups shown on Pages 23 and 24

REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	4N5906	SPRING	24
C 2	2N5571	ROTCOIL	24
3	2A4429	LOCK	48

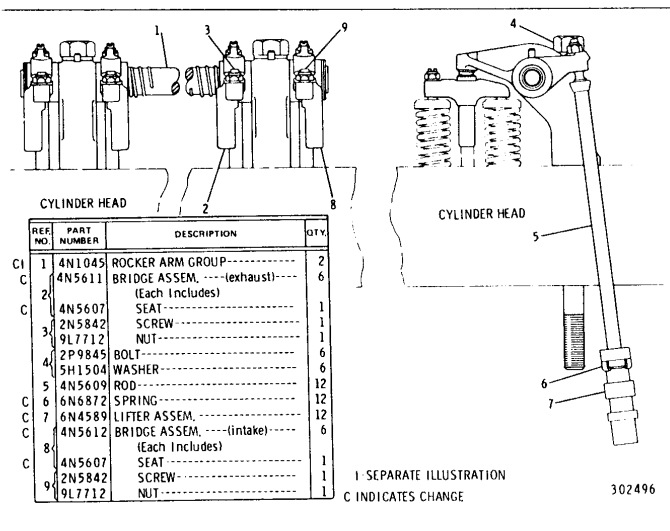
4	4N5079	HEAD ASSEM.	1
5	2N5775	DOWEL	12
6	4N5893	INSERT	12
▲ 6	4N5888	INSERT - .005 in. L, 13mm over-size	12
▲ 6	4N5889	INSERT - .010 in. L, 26mm over-size	12
7	2N6471	PLUG	1
▲ 7	4N5969	INSERT - .005 in. L, 13mm over-size	12
▲ 7	4N5902	INSERT - .010 in. L, 26mm over-size	12
8	3B623	PLUG	10
9	4N2803	GUIDE	24
10	3B645	PLUG	12
11	4N5654	VALVE - (intake)	12
12	4N5653	VALVE - (exhaust)	12
13	4N6027	FORM	1

(Installing Cylinder Head)

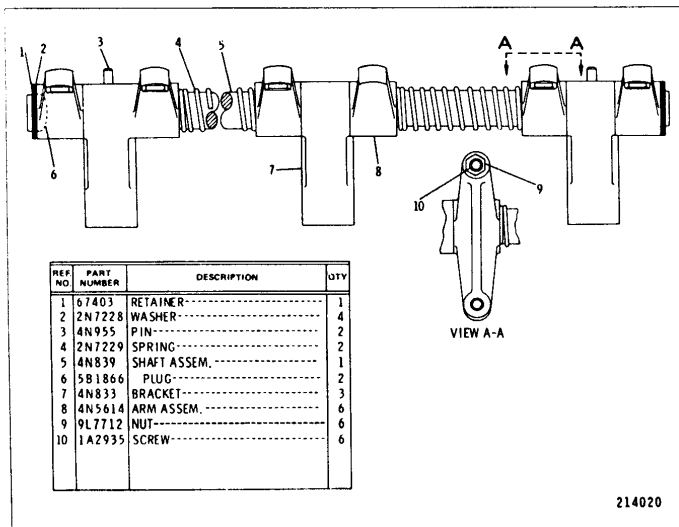


C INDICATES CHANGE
▲ NOT PART OF 4N5079 ASSEM.

150840



4N2271 VALVE MECHANISM GROUP
4N1045—Page 26

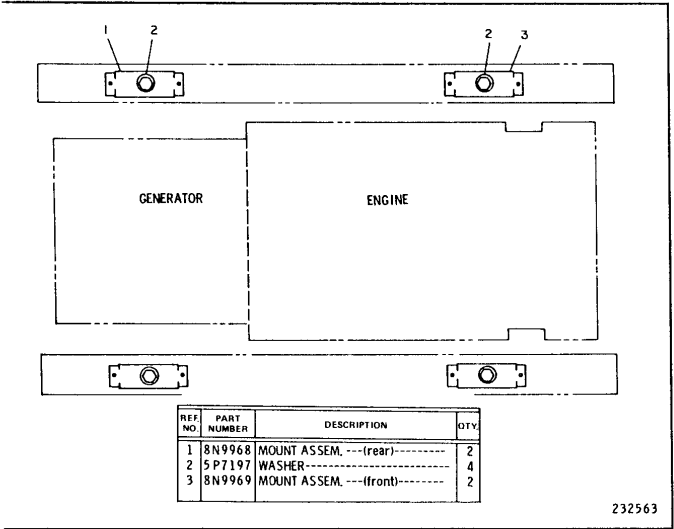


4N1045 ROCKER ARM GROUP
Part of 4N2271 Valve Mechanism

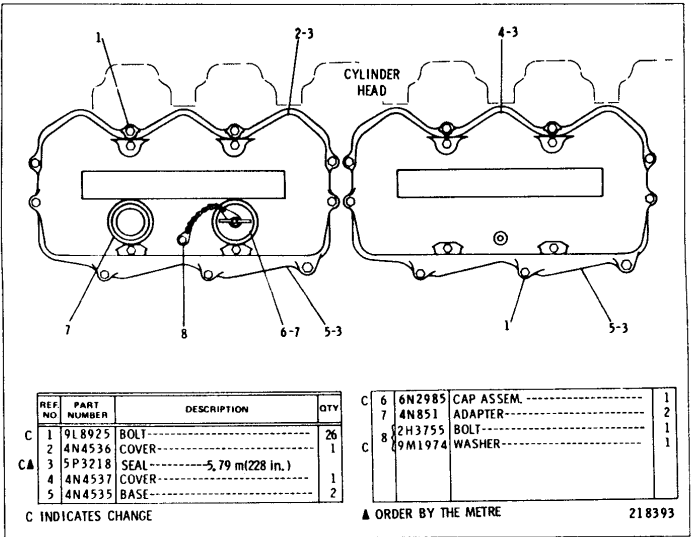
CONSISTS OF:

6	7N623	SEAL--CYLINDER LINER
1	7N631	GASKET--CYLINDER BLOCK PLATE
1	7N632	GASKET--CYLINDER BLOCK TO CYLINDER HEAD
1	.....	FORM SMHS7024

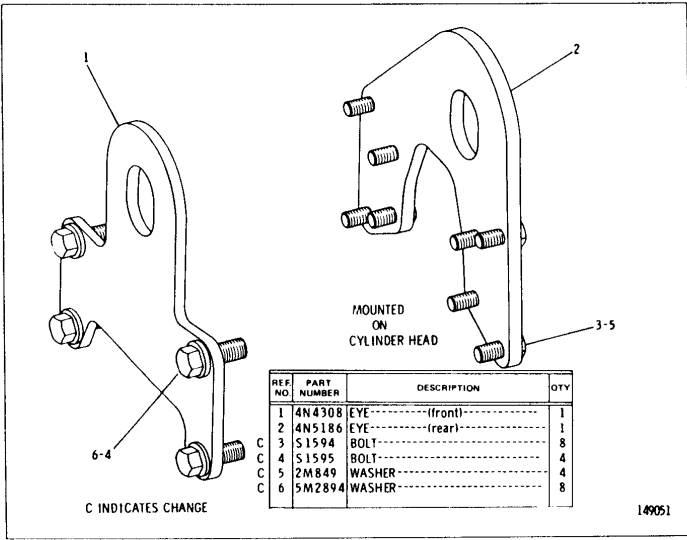
7N628 GASKET GROUP--Field Installation
Eliminates Oil Transfer from Rocker Arm Oil Supply Holes to Water Jacket Areas
Note: 7N624 Block Plate is available



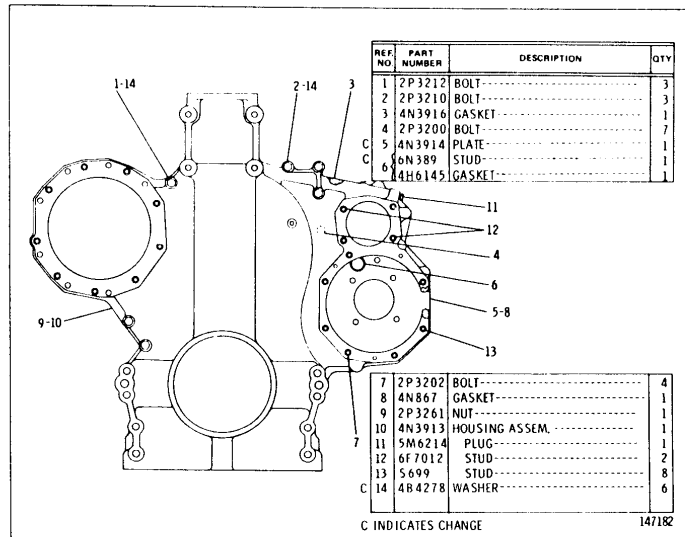
8N9560 ENGINE MOUNTING GROUP—Flexible
AN ATTACHMENT



4N2272 VALVE MECHANISM COVER GROUP

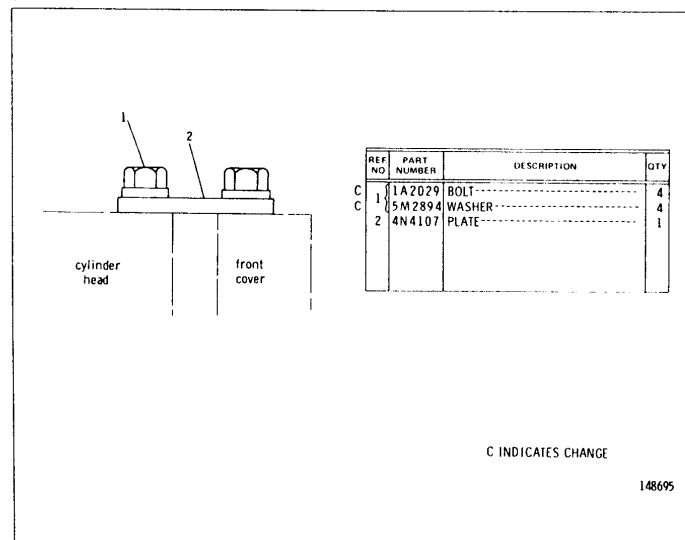


4N1331 LIFTING EYE GROUP



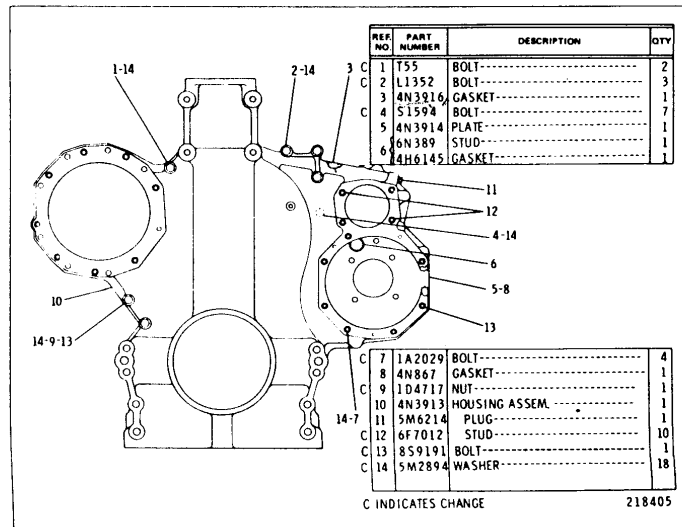
4N3911 FRONT HOUSING GROUP

Serial No. 90U1 to 90U296 inclusive. Part of 4N2238 Basic Engine Arrangement listed on Page 14. Only separate parts serviced

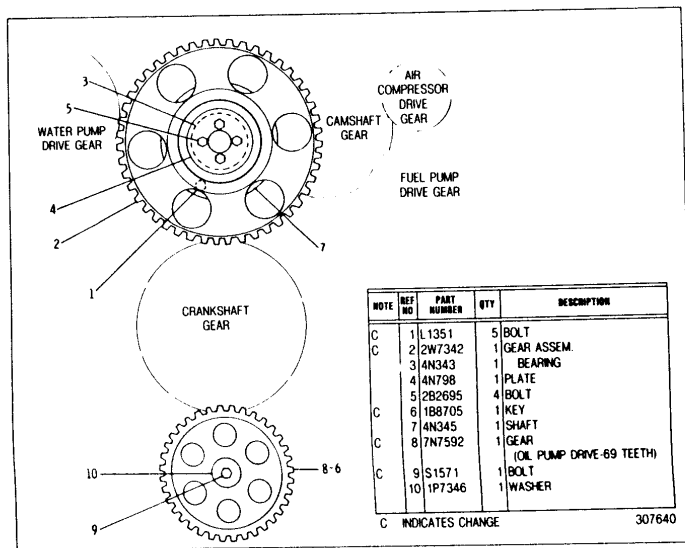


4N6006 FRONT HOUSING FASTENER GROUP

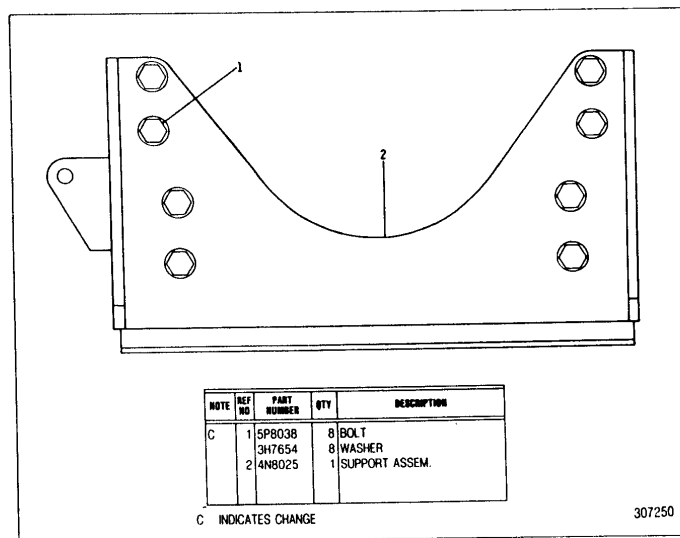
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A
Only separate parts serviced

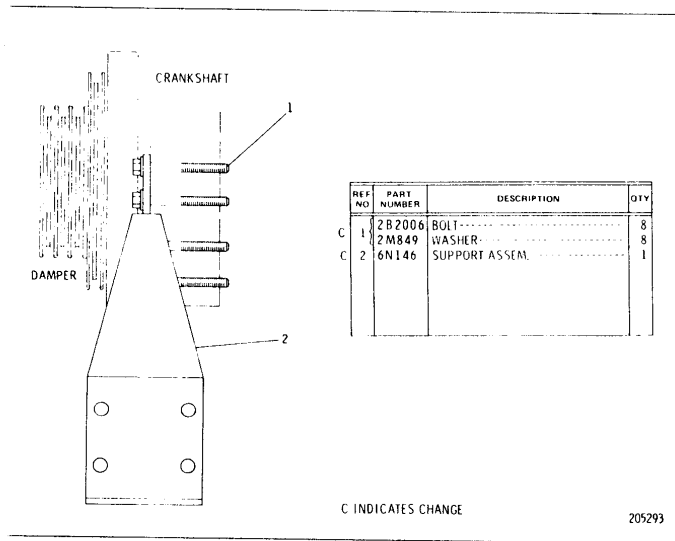


4N3911 FRONT HOUSING GROUP
Serial No. 90U297—Up

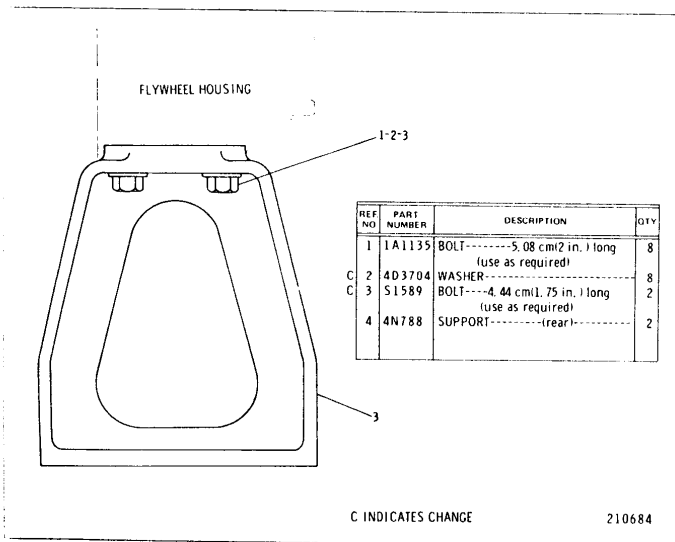


4N2274 FRONT GEAR GROUP—Timing

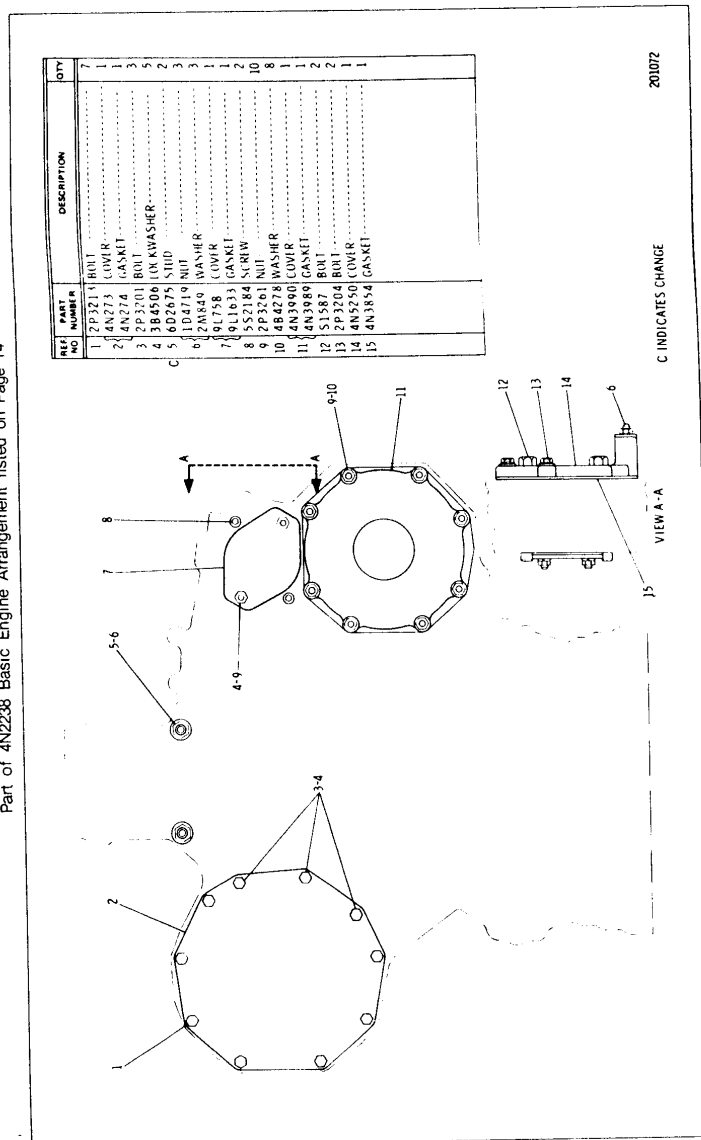
6N719 ENGINE SUPPORT GROUP—Front
AN ATTACHMENT



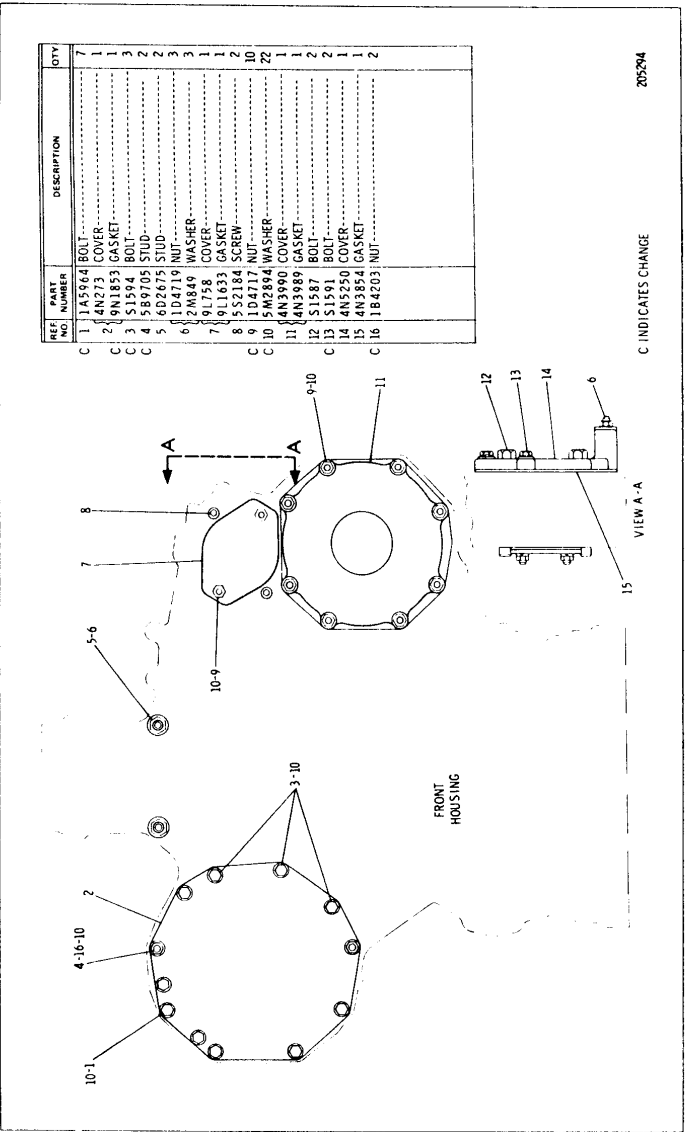
4N642 SUPPORT GROUP—Front

4N4286 SUPPORT GROUP—Rear
AN ATTACHMENT

4N5691 FRONT COVER GROUP
Serial No. 9001 to 900274 inclusive
Part of 4N2238 Basic Engine Arrangement listed on Page 14

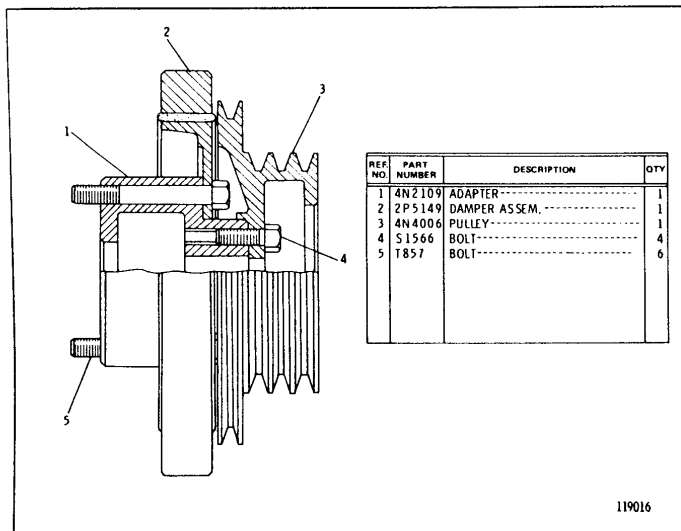


4N5691 FRONT COVER GROUP
Serial No. 90U275—Up
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A

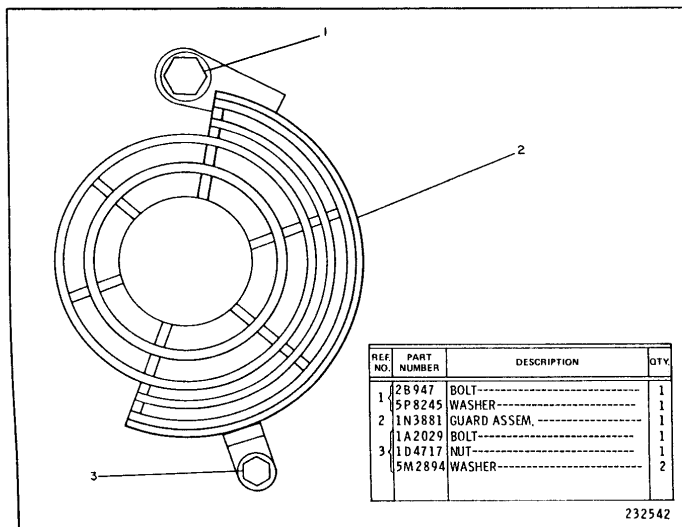


205294

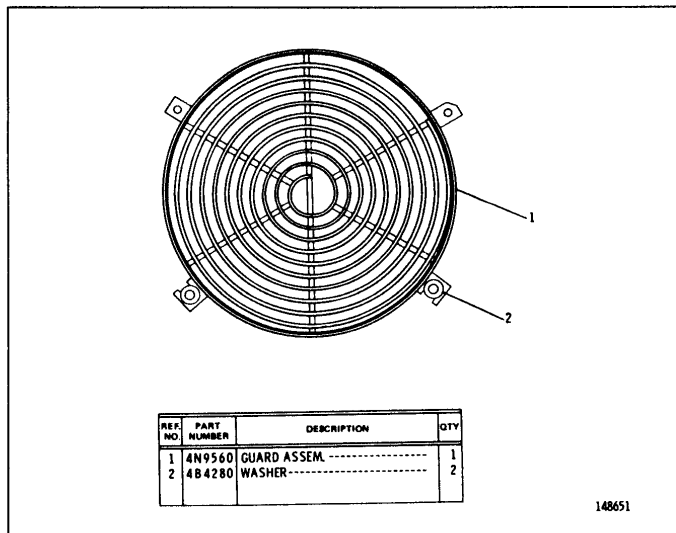
C INDICATES CHANGE



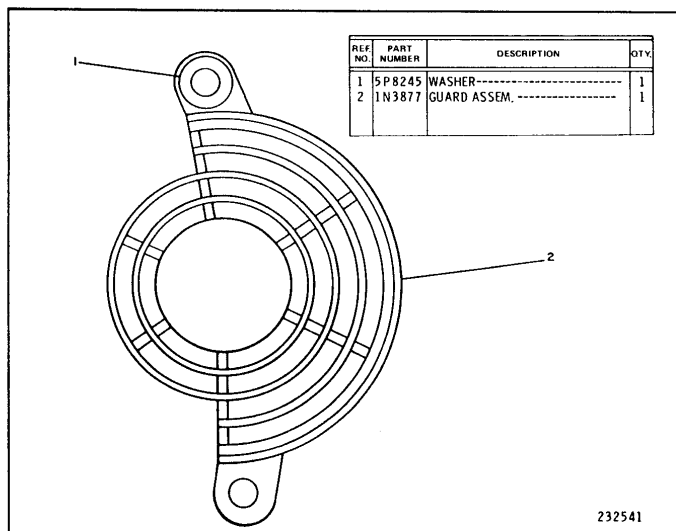
4N4005 PULLEY AND DAMPER GROUP
 Part of 4N2238 Basic Engine Arrangement listed on Page 14
 Only separate parts serviced



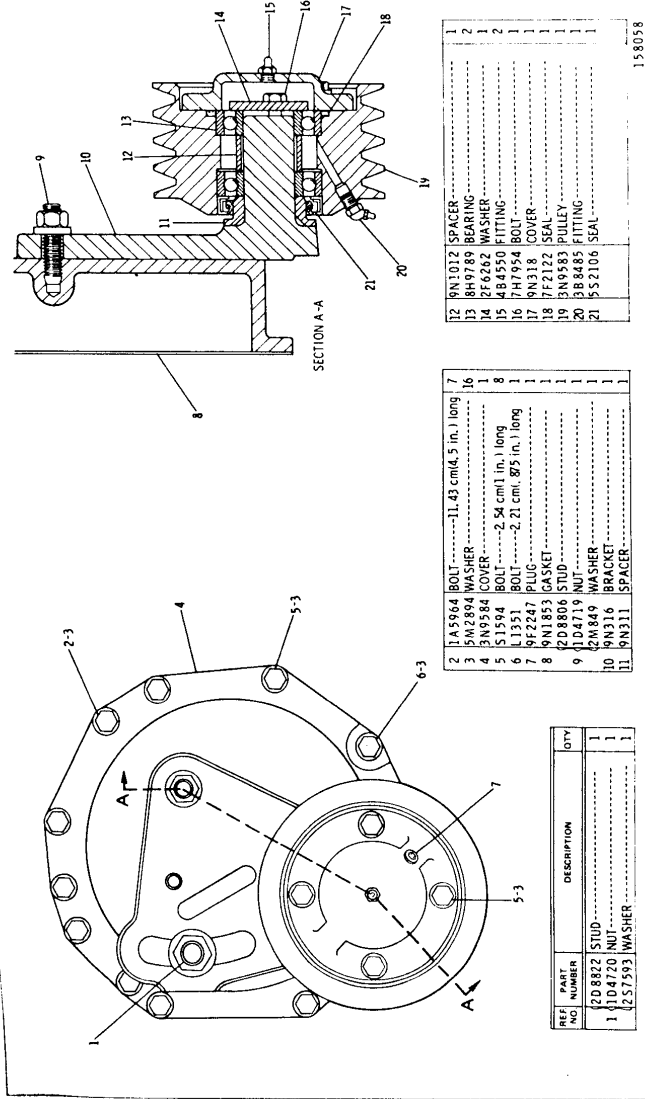
1N3880 BELT GUARD GROUP
 Provides a Pulley and Belt Safety Guard Group for the Motorola Alternator
 FOR USE WITH RADIATOR AND FAN. AN ATTACHMENT



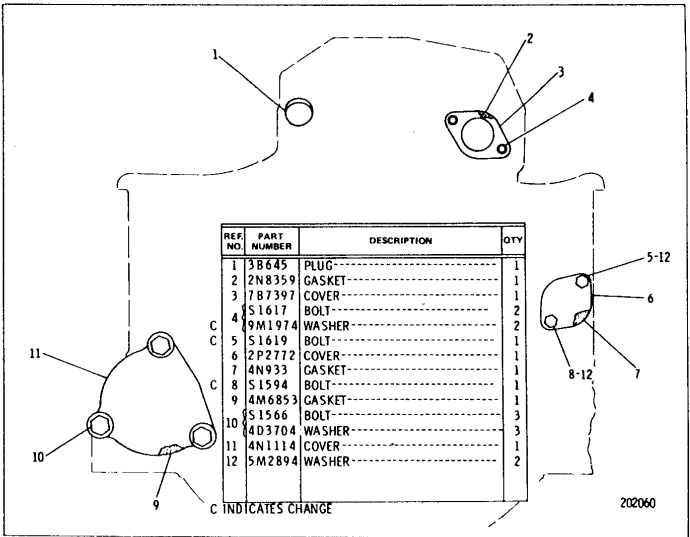
4N9561 DAMPER GUARD GROUP
AN ATTACHMENT



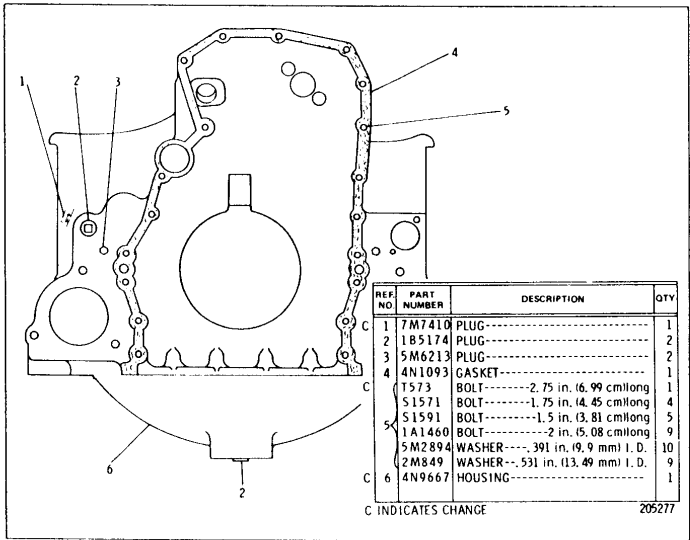
1N3876 BELT GUARD GROUP
Provides a Pulley and Belt Safety Guard Group for the Delco Alternator
FOR USE WITH RADIATOR AND FAN. AN ATTACHMENT



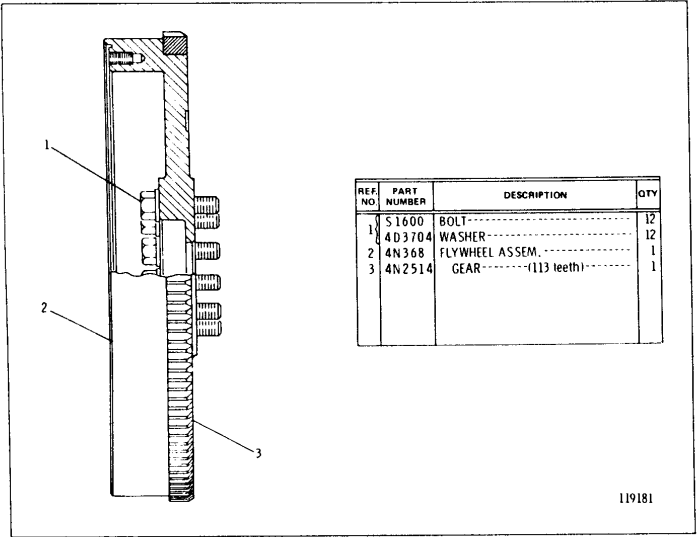
3N9582 BELT TIGHTENER GROUP
AN ATTACHMENT



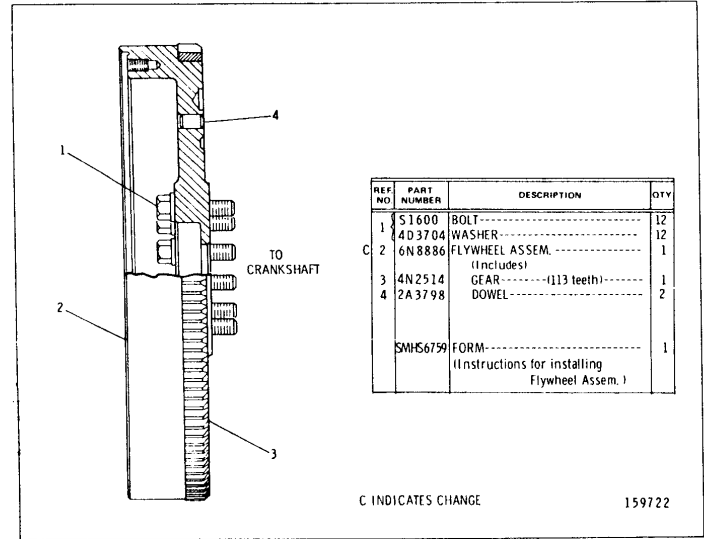
4N4792 FLYWHEEL HOUSING COVER GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A
Only separate parts serviced



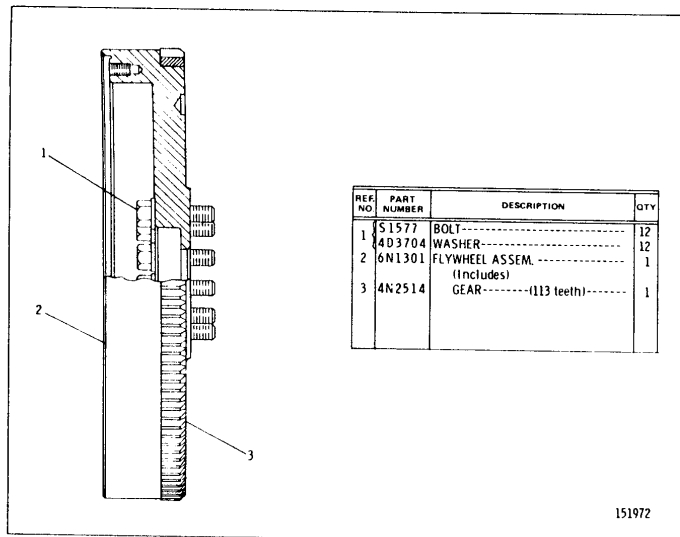
4N732 FLYWHEEL HOUSING GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A
Only separate parts serviced



4N807 FLYWHEEL GROUP—Factory Installation
AN ATTACHMENT

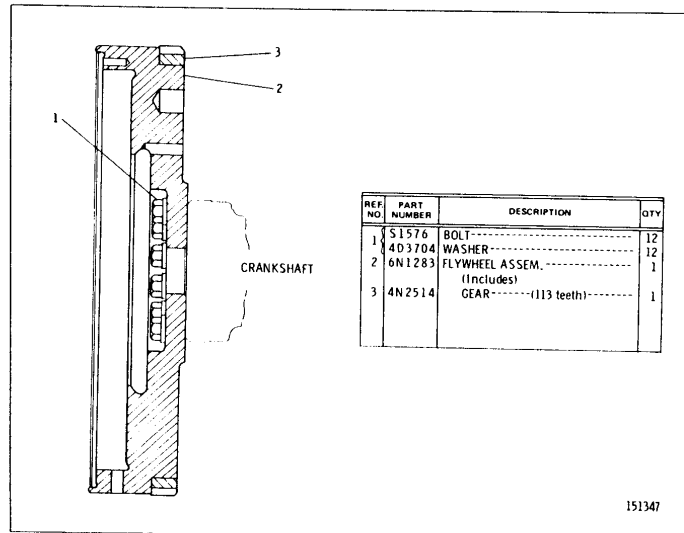


4N9620 FLYWHEEL GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 & 15A



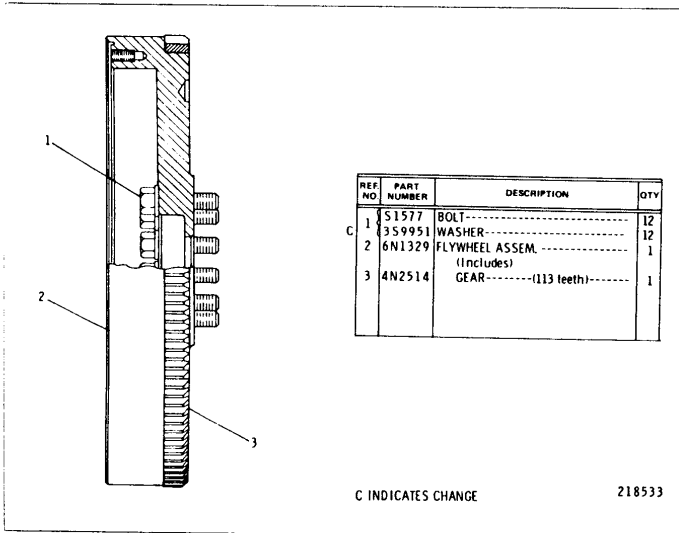
6N1299 FLYWHEEL GROUP

FOR USE WITH SAE NO. 1 FLYWHEEL HOUSING AND TO ADAPT TO CLARK EQUIPMENT TORQUE CONVERTER 14, 15 AND 16 SERIES WITHOUT CLUTCH AN ATTACHMENT

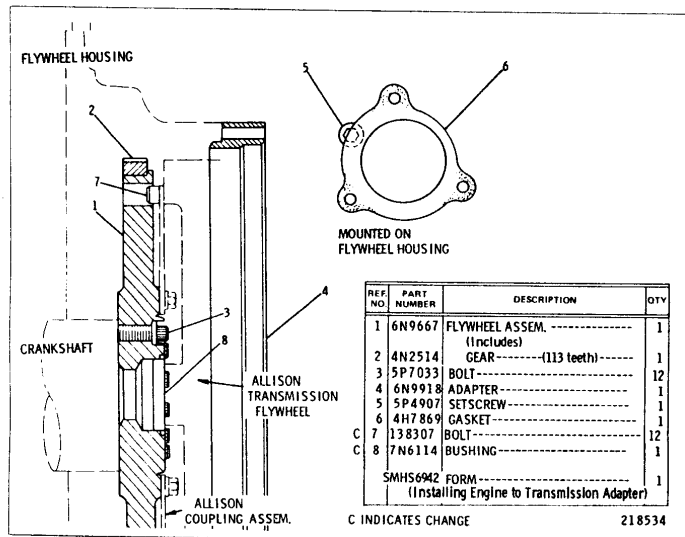


6N1281 FLYWHEEL GROUP

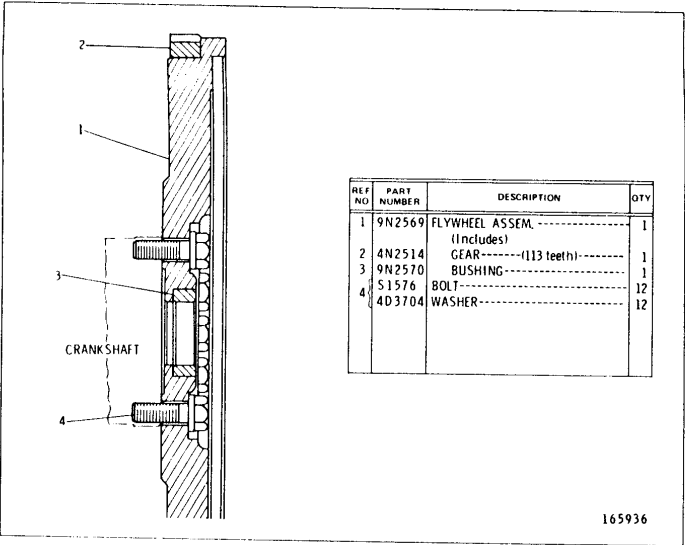
FOR USE WITH SAE NO. 1 FLYWHEEL HOUSING TO ADAPT TO TWIN DISC TORQUE CONVERTER WITH CLUTCH. AN ATTACHMENT



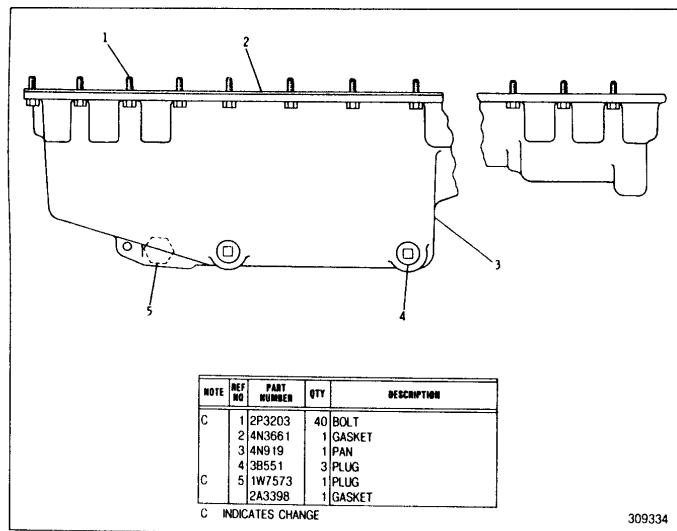
6N1328 FLYWHEEL GROUP
FOR USE WITH SAE NO. 1 FLYWHEEL HOUSING AND TO ADAPT TO CLARK EQUIPMENT
TORQUE CONVERTER NO. 16 AND 17 WITH CLUTCH. AN ATTACHMENT



6N9829 FLYWHEEL ADAPTER GROUP
Serial No. 90U240—Up
AN ATTACHMENT

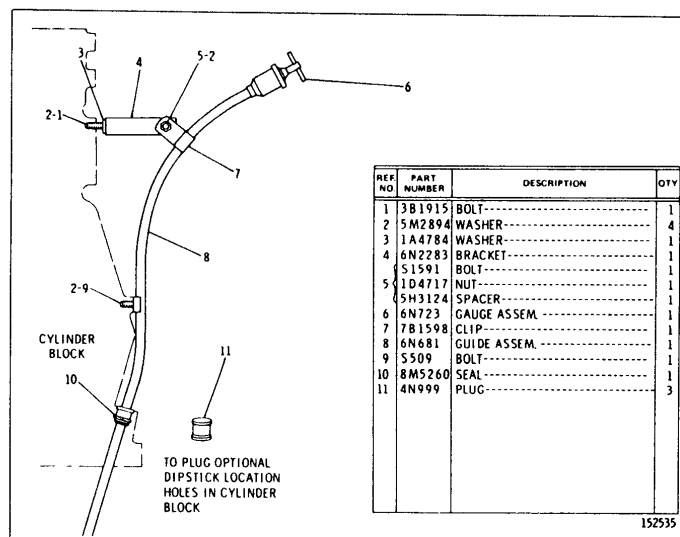


9N2518 FLYWHEEL GROUP
FOR USE WITH SAE NO.1 FLYWHEEL HOUSING
AN ATTACHMENT



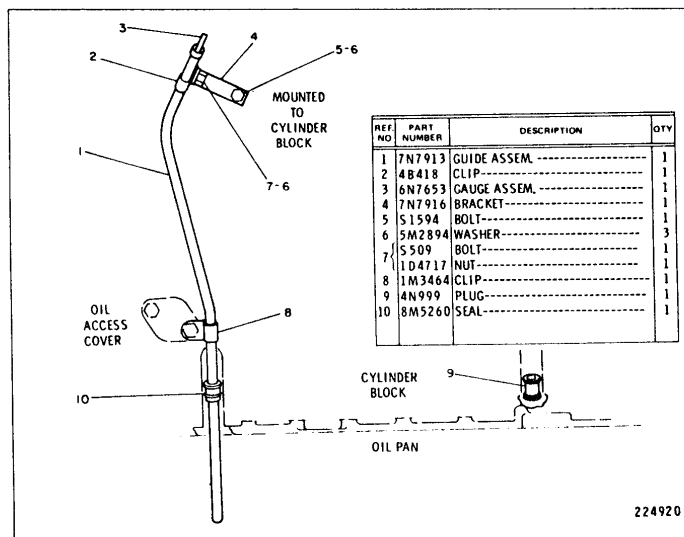
309334

4N756 OIL PAN GROUP

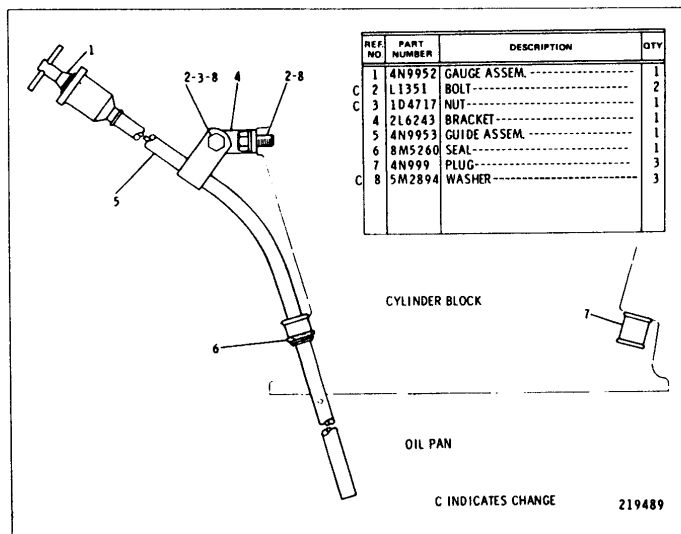


152535

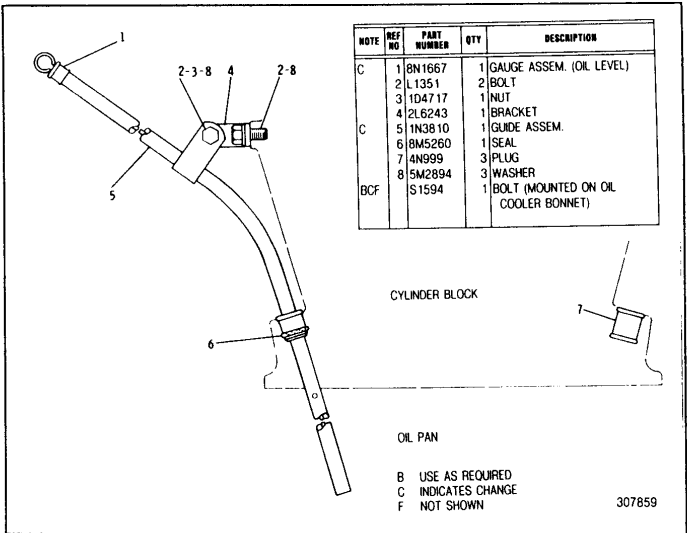
6N2282 OIL LEVEL GAUGE GROUP



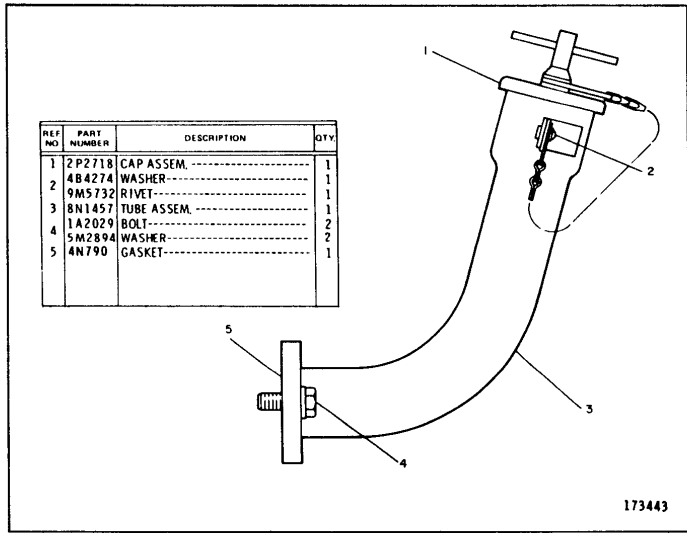
7N8084 OIL LEVEL GAUGE GROUP
FOR USE WITH 7N7085 TRANSMISSION OIL COOLER GROUP SHOWN ON
PAGE 50B. CANNOT BE USED WITH FRONT SUMP OIL PAN OR ENGINES WITH
WATERCOOLED MANIFOLDS. AN ATTACHMENT



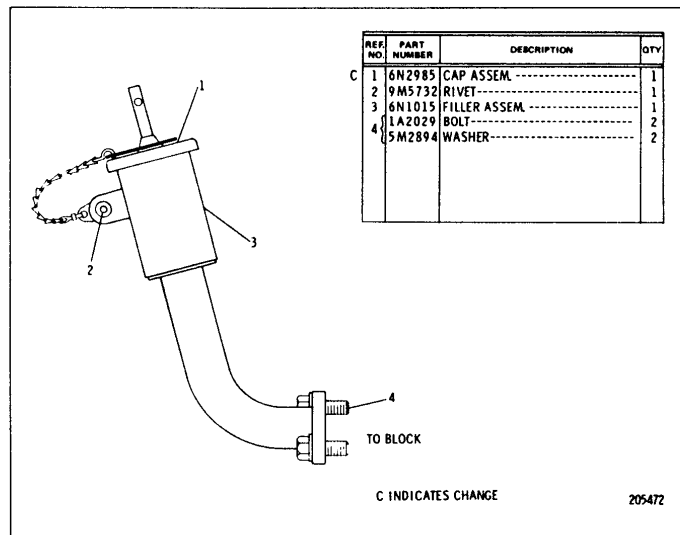
4N9951 OIL LEVEL GAUGE GROUP—L.H.—Type 1
AN ATTACHMENT



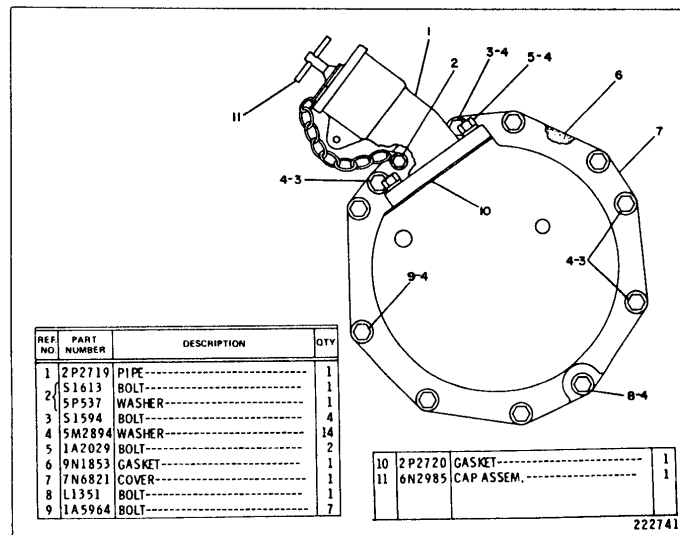
4N9951 OIL LEVEL GAUGE GROUP—L.H.—Type 2
AN ATTACHMENT



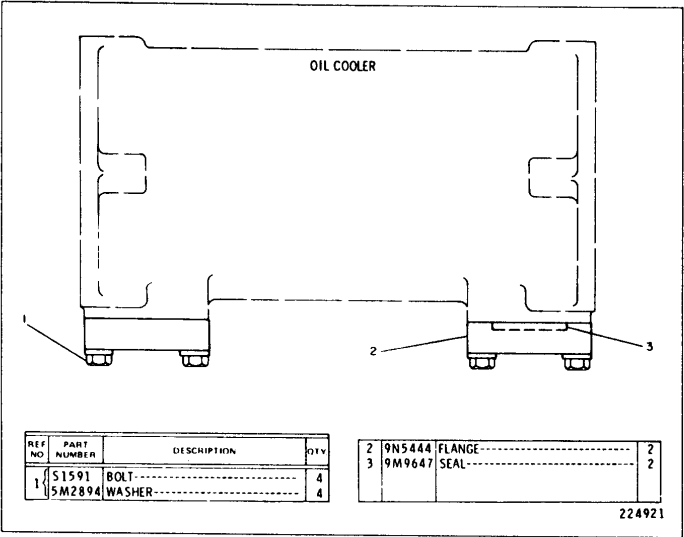
8N1455 OIL FILLER GROUP
NOT FOR USE WITH 7N6640 AND 7N6641 COOLANT FILTER GROUPS
AN ATTACHMENT



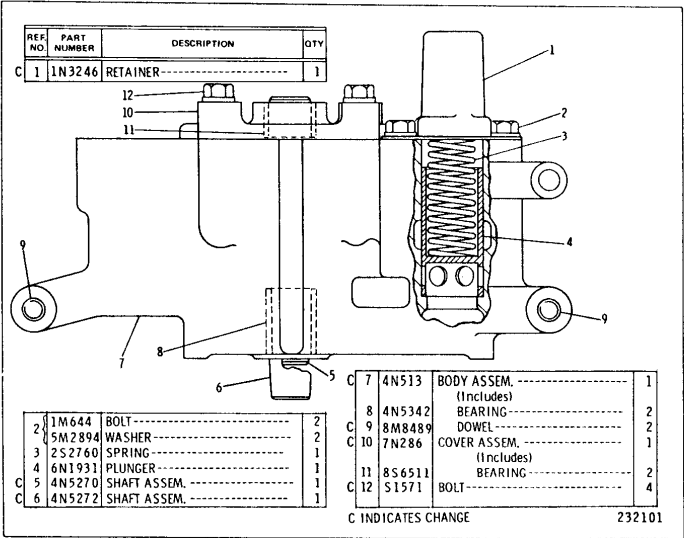
6N1016 OIL FILLER GROUP
AN ATTACHMENT



7N8488 OIL FILLER GROUP—R.H. Front
FOR USE WITHOUT BELT TIGHTENER. NOT FOR USE WITH 7N8085
TRANSMISSION OIL COOLER. AN ATTACHMENT

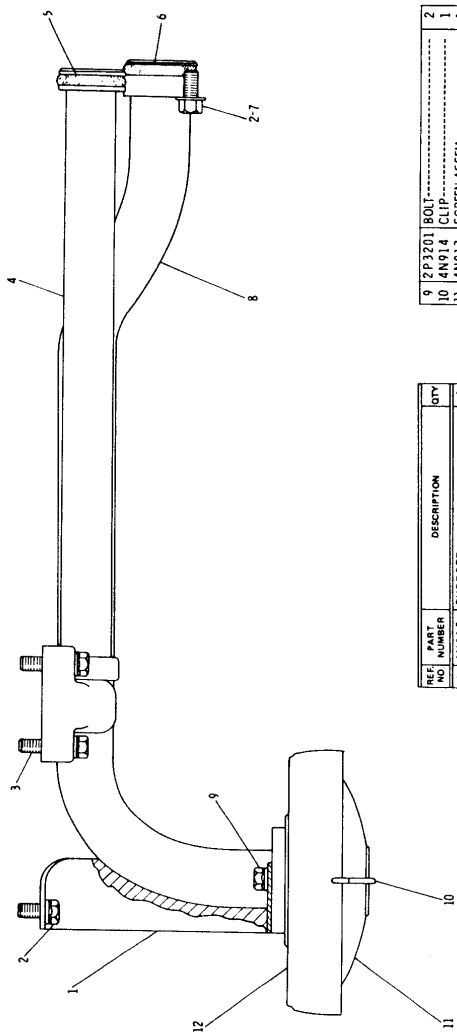


9N5443 FLANGE GROUP—Pipe Threaded
FOR USE WITH 7N8085 TRANSMISSION OIL COOLER GROUP SHOWN ON PAGE 50B
Cannot be used with Engines having Watercooled Manifolds. AN ATTACHMENT



4N733 OIL PUMP GROUP

4N1123 OIL LINE ASSEMBLY
Serial No. 8311 to 921297 inclusive
Part of 4N22038 Basic Engine Arrangement listed on Page 14. Only separate parts serviced

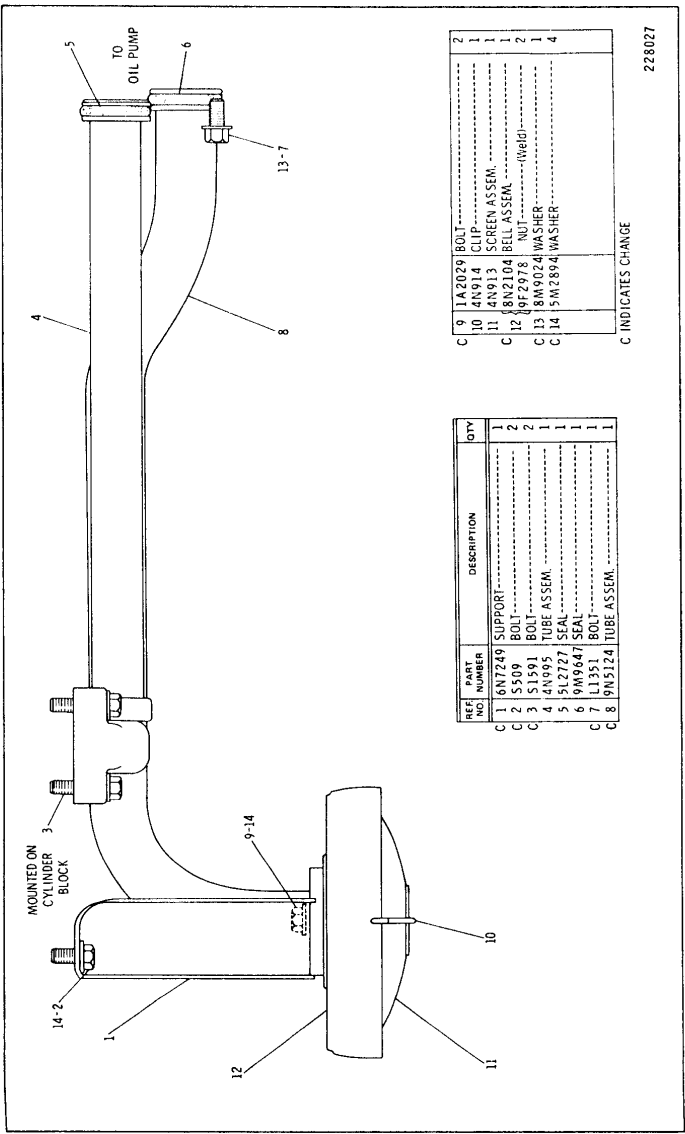


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	4N915	SUPPORT	1
2	2P3200	BOLT	3
3	2P3204	BOLT	2
4	4N995	TUBE ASSEM.	1
5	5L2727	SEAL	1
6	9M9647	SEAL	1
7	4B4278	WASHER	1
8	4N911	TUBE ASSEM.	1

9	2P3201	BOLT	2
10	4N914	CLIP	1
11	4N913	SCREEN ASSEM.	1
12	4N993	BELL ASSEM.	1
	9F2978	NUT	2
		(Weld)	

118087

4N1128 OIL LINES GROUP
Serial No. 90U298-Up

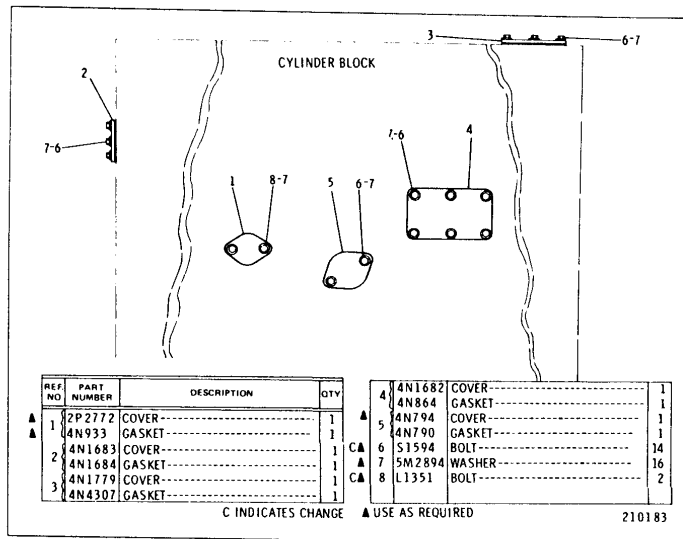


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
C 1	6N7249	SUPPORT	1
C 2	5309	BOLT	2
C 3	5309	BOLT	2
C 4	6N995	TUBE ASSEM.	1
C 5	51277	SEAL	1
C 6	9M9647	SEAL	1
C 7	11351	BOLT	1
C 8	9N5124	TUBE ASSEM.	1

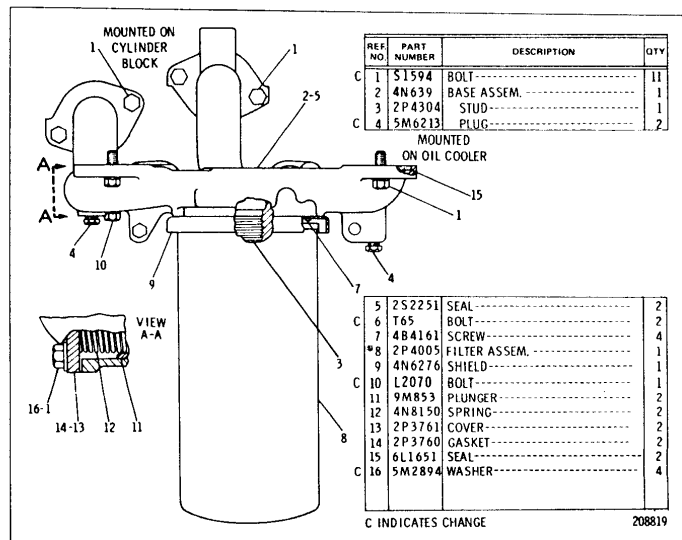
C 9	1A2029	BOLT	2
C 10	4N914	CLIP	1
C 11	4N913	SCREEN ASSEM.	1
C 12	8N2104	BELL ASSEM.	1
C 13	8M9024	NUT	2
C 14	5M2894	WASHER	1
C 15	5M2894	WASHER	4

C INDICATES CHANGE

228027



4N2481 OIL PUMP MOUNTING FASTENER GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A

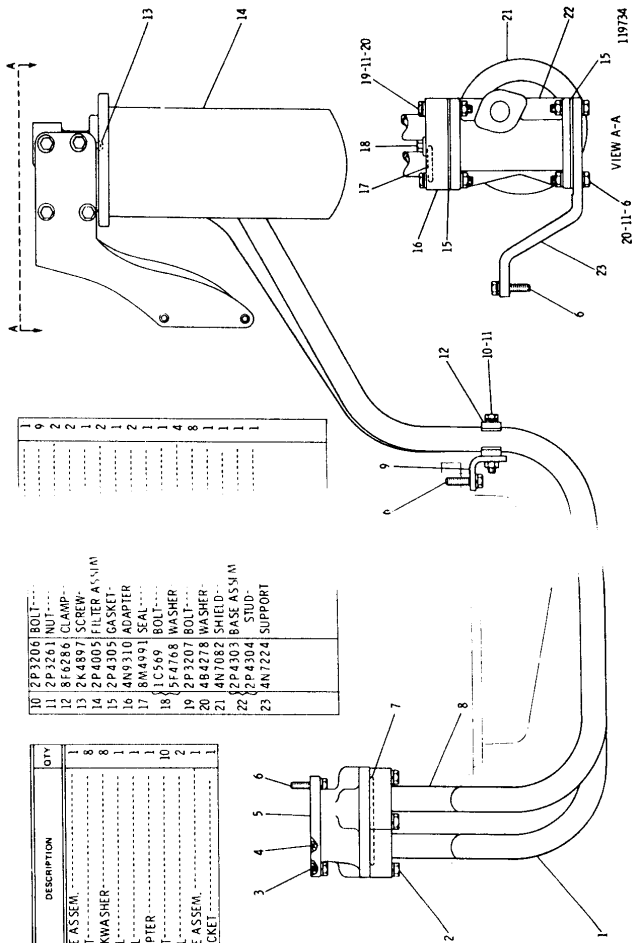


4N731 OIL FILTER GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 14 and 15A

4N7254 OIL FILTER GROUP—Type 1
Replaced by 6N8780 shown on Page 39B
AN ATTACHMENT

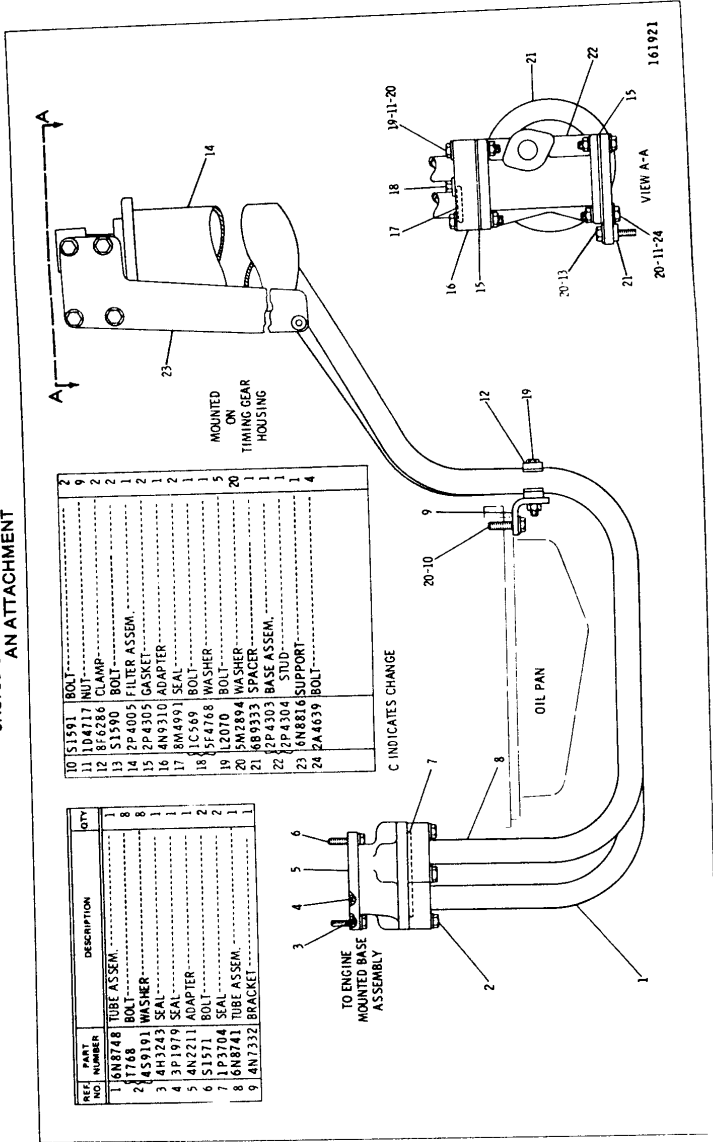
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	4N8212	TUBE ASSEM.	1
2	1768	BOLT	8
3	384507	LOCKWASHER	8
4	4H3243	SEAL	1
5	3P1979	ADAPTER	1
6	4N2211	SEAL	10
7	2P3204	BOLT	2
8	1768	SEAL	1
9	4N8212	TUBE ASSEM.	1
10	4N7232	BRACKET	1

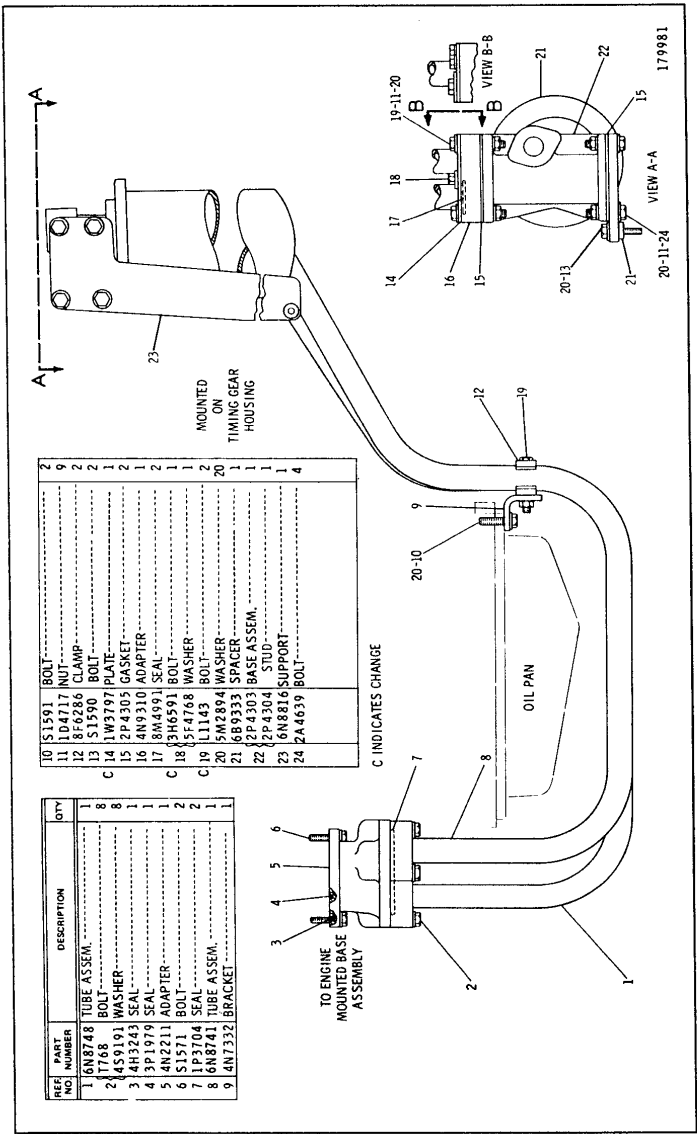
10	2P3206	BOLT	1
11	2P3261	NUT	2
12	8F6286	CLAMP	2
13	2K4897	SCREW	2
14	2P4005	FILTER A'SSEM	2
15	2P4305	GASKET	2
16	4N6310	ADAPTER	1
17	8M4991	SEAL	1
18	1C569	BOLT	4
19	5F4768	WASHER	1
20	2P3207	BOLT	1
21	4N7082	SHIELD	1
22	2P4303	BASE ASSEM	1
23	2P4304	STUD	1
24	4N7224	SUPPORT	1



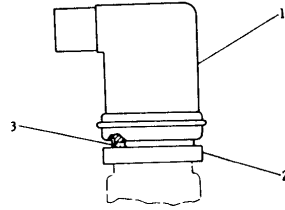


6N8789 OIL FILTER GROUP—Type 1
AN ATTACHMENT





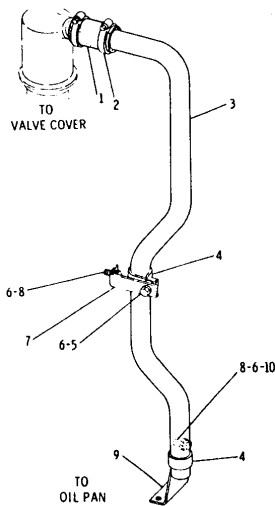
6N8789 OIL FILTER GROUP—Type 2
AN ATTACHMENT



REF NO	PART NUMBER	DESCRIPTION	QTY
1	4N4668	BREATHER ASSEM	1
2	2N8109	CLAMP	1
3	4F7390	SEAL	1

118081

2N8220 BREATHER GROUP



REF NO	PART NUMBER	DESCRIPTION	QTY
1	5P1255	HOSE-----7.62 cm(3 in.)	
2	9M2904	CLAMP-----	2
3	4N5262	TUBE-----	1
4	2S2053	CLIP-----	2
5	3B1915	BOLT-----	1
6	4S5719	SPACER-----	1
7	1D4717	NUT-----	1
8	5M2894	WASHER-----	4
9	4N6162	BRACKET-----	1
10	5S509	BOLT-----	2
	4N5264	BRACKET ASSEM	1
	9F2978	NUT-----	1

▲ ORDER BY THE CENTIMETRE

C INDICATES CHANGE

214025

4N1288 FUMES DISPOSAL GROUP

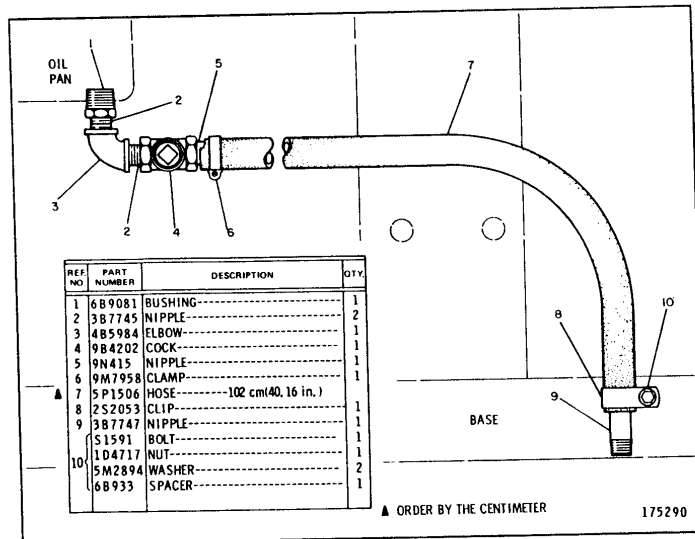
LUBRICATION SYSTEM

40.01

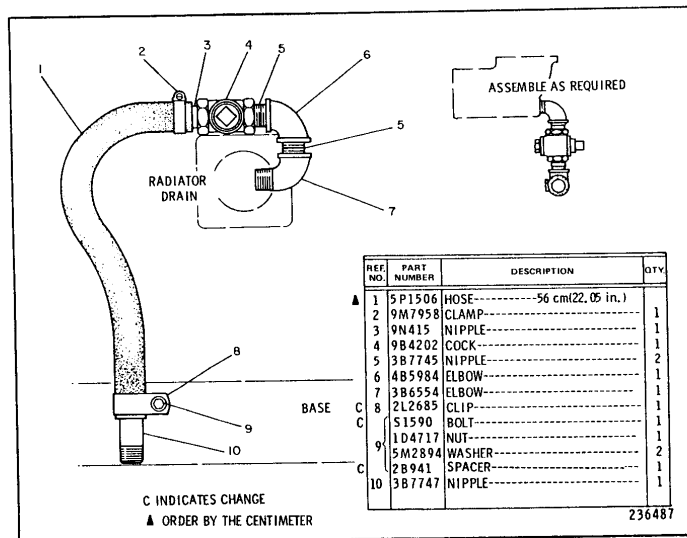
CONSISTS OF:

5N6133 HOSE 122 CM (48 IN.)
1 9M2904 CLAMP

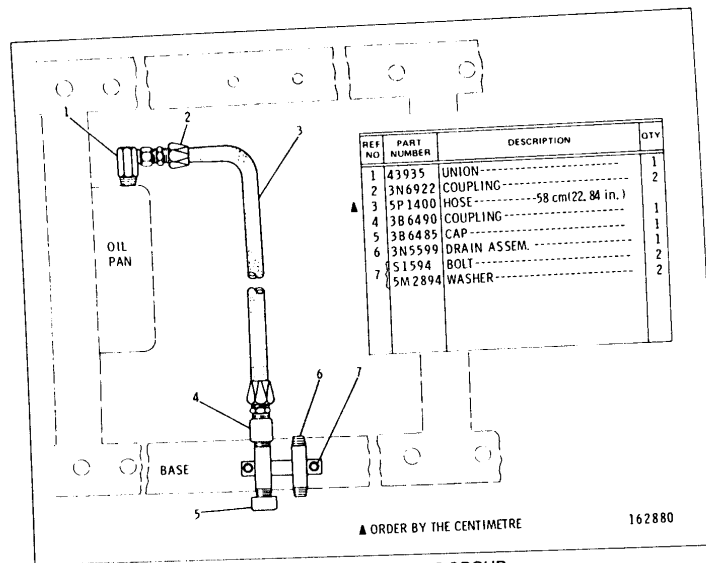
5N6134 FUMES DISPOSAL GROUP—Enclosure
Provides a fumes disposal hose from the fumes disposal tube of engine to outside of the package generator set. AN ATTACHMENT



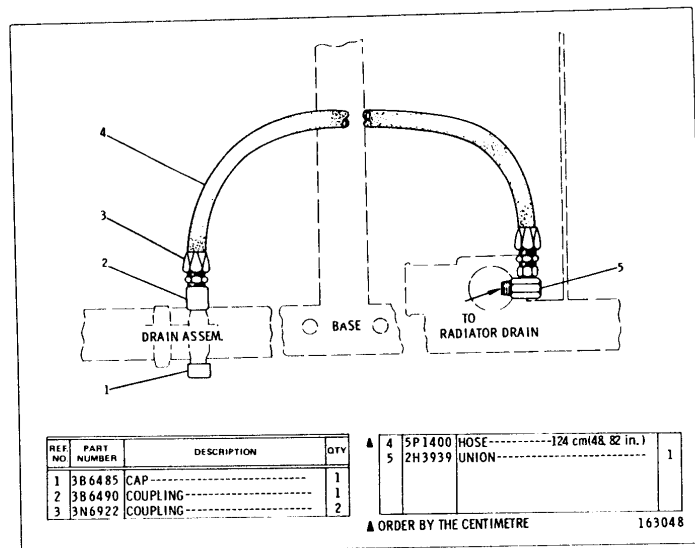
5N6131 OIL DRAIN LINES GROUP
FOR USE WITH WIDE BASE WITH OR WITHOUT ENCLOSURES
AN ATTACHMENT



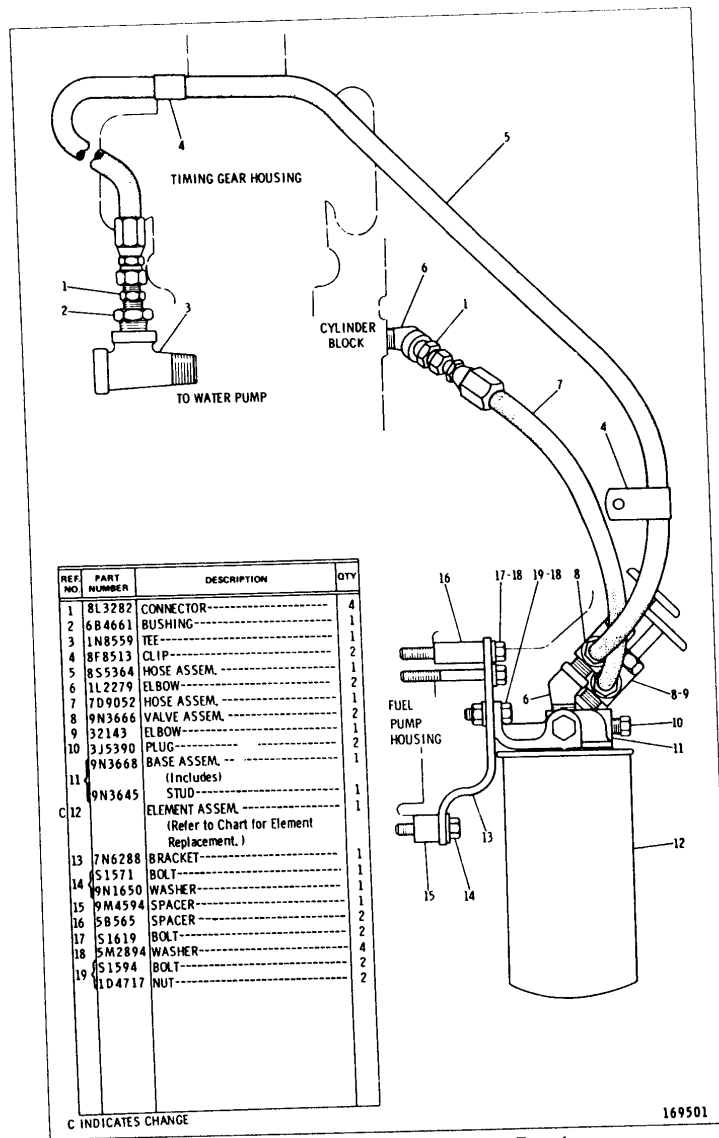
5N6132 COOLANT DRAIN LINES GROUP
FOR USE WITH WIDE BASE WITH OR WITHOUT ENCLOSURES
AN ATTACHMENT



5N3874 OIL DRAIN LINES GROUP
FOR USE WITH 3N6287 ENGINE BASE GROUP SHOWN ON PAGE 141A
AN ATTACHMENT



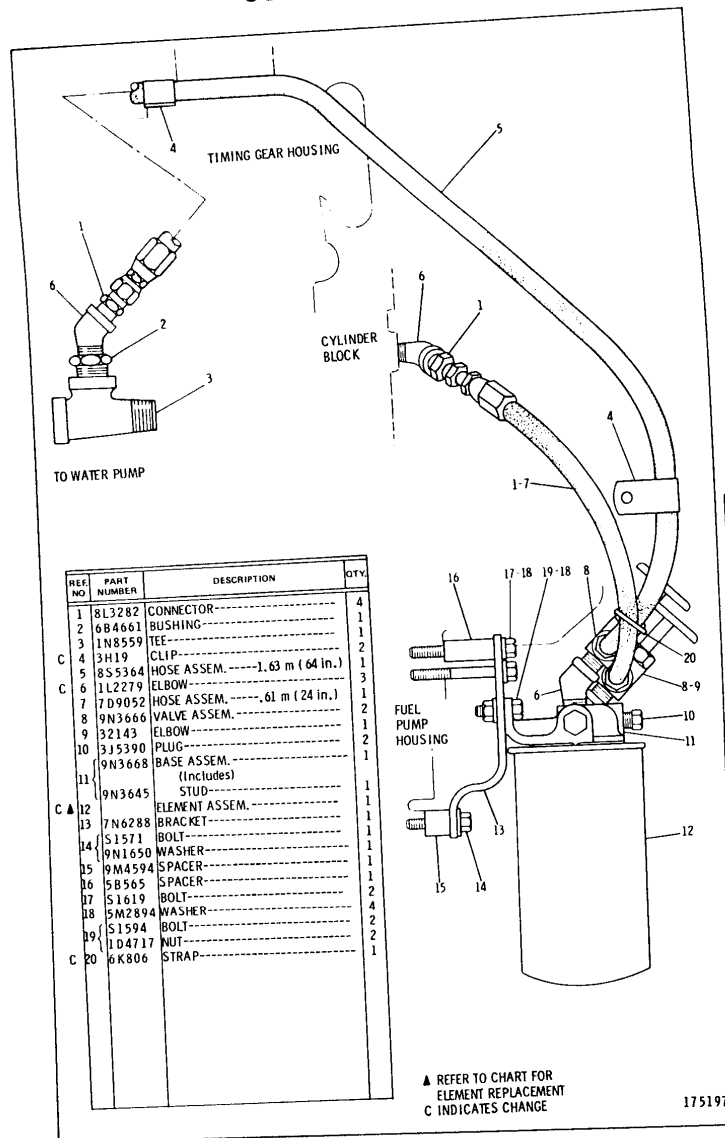
5N3872 DRAIN LINES GROUP—Coolant
FOR USE WITH 5N3874 DRAIN LINES GROUP SHOWN ON PAGE 141A
AN ATTACHMENT



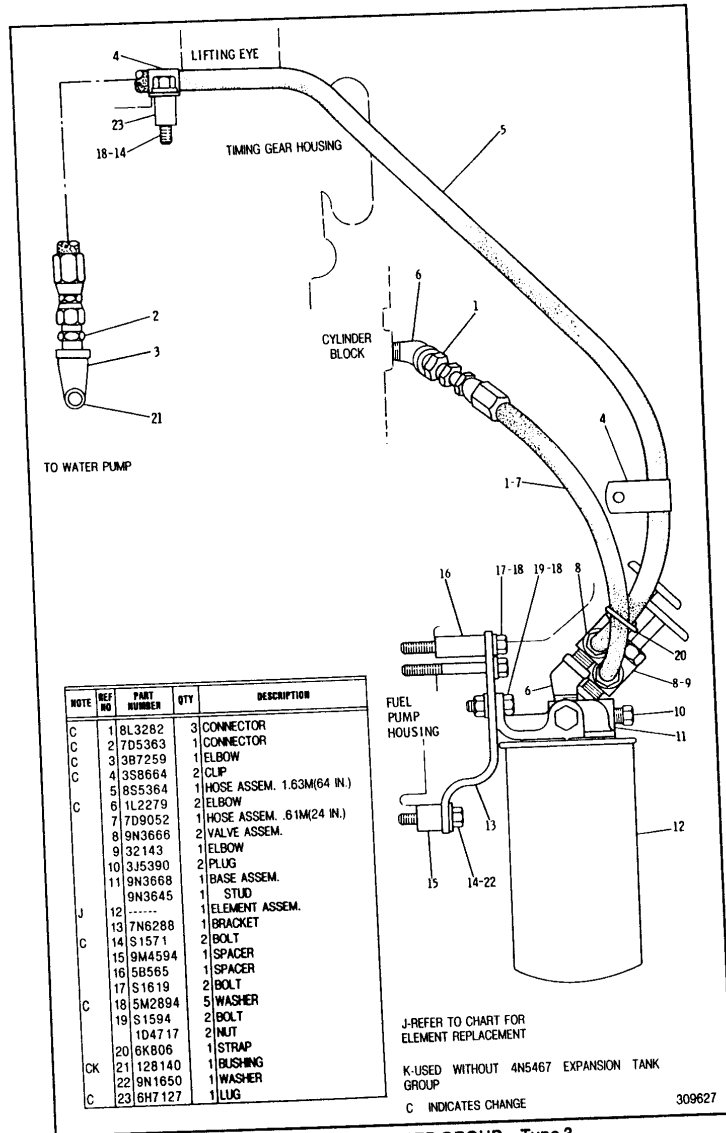
7N6641 COOLANT FILTER GROUP—Type 1
 FOR USE WITHOUT GEAR DRIVEN AIR COMPRESSOR
 Element Replacement Chart is shown on Page 40H
 AN ATTACHMENT

COOLING SYSTEM

40C



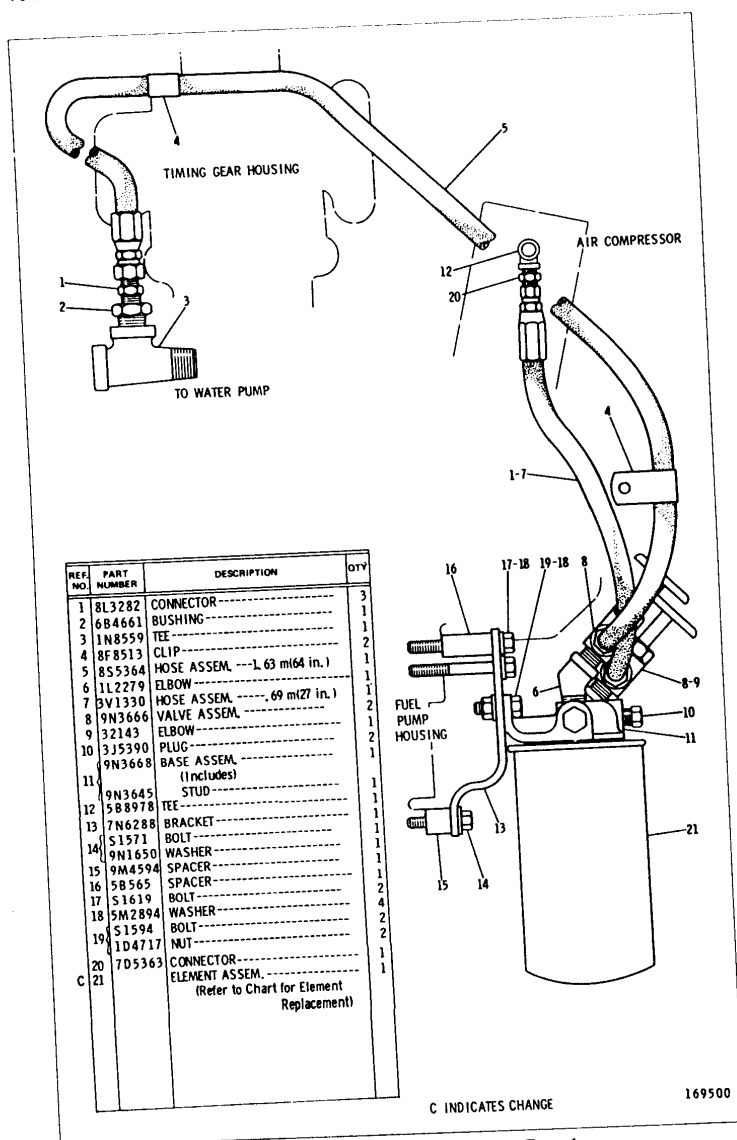
7N8841 COOLANT FILTER GROUP—Type 2
FOR USE WITHOUT GEAR DRIVEN AIR COMPRESSOR
Element Replacement Chart is shown on Page 40H
AN ATTACHMENT



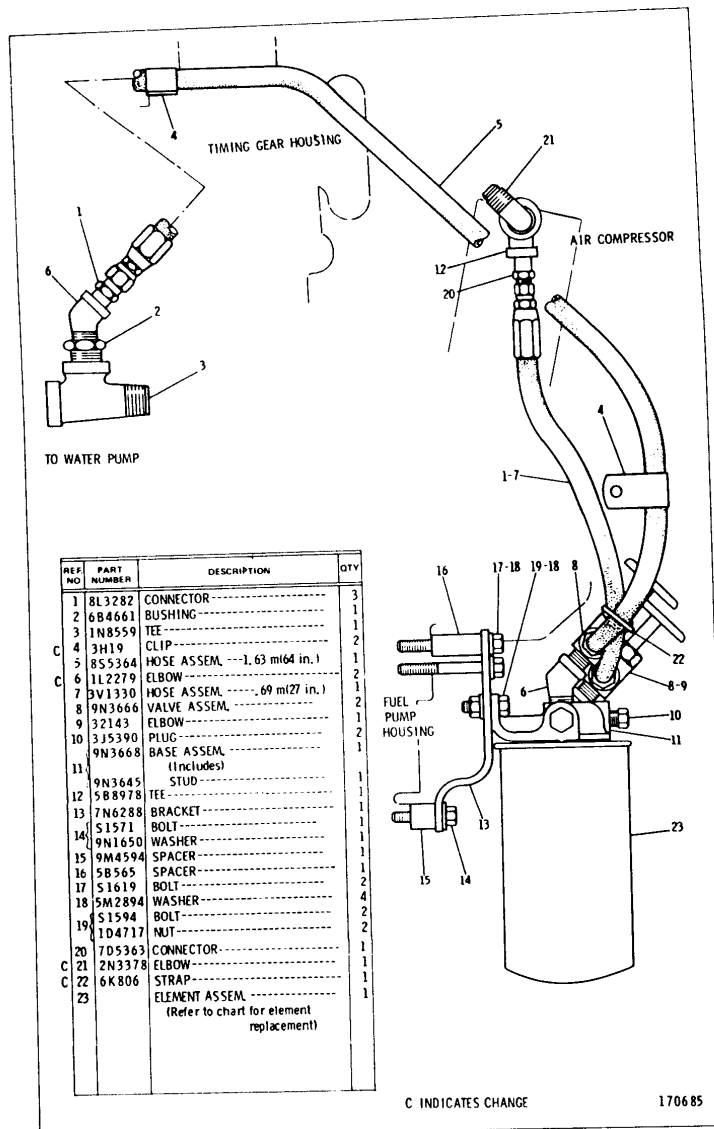
7N6841 COOLANT FILTER GROUP—Type 3
 FOR USE WITH LEFT FRONT MOUNTED INSTRUMENT PANEL AND WITH OR WITHOUT EXPANSION TANK. CANNOT BE USED WITH GEAR DRIVEN AIR COMPRESSOR AND LEFT SIDE FRAME MOUNTED BATTERY PACK. ELEMENT REPLACEMENT CHART—Page 40H. AN ATTACHMENT

309627

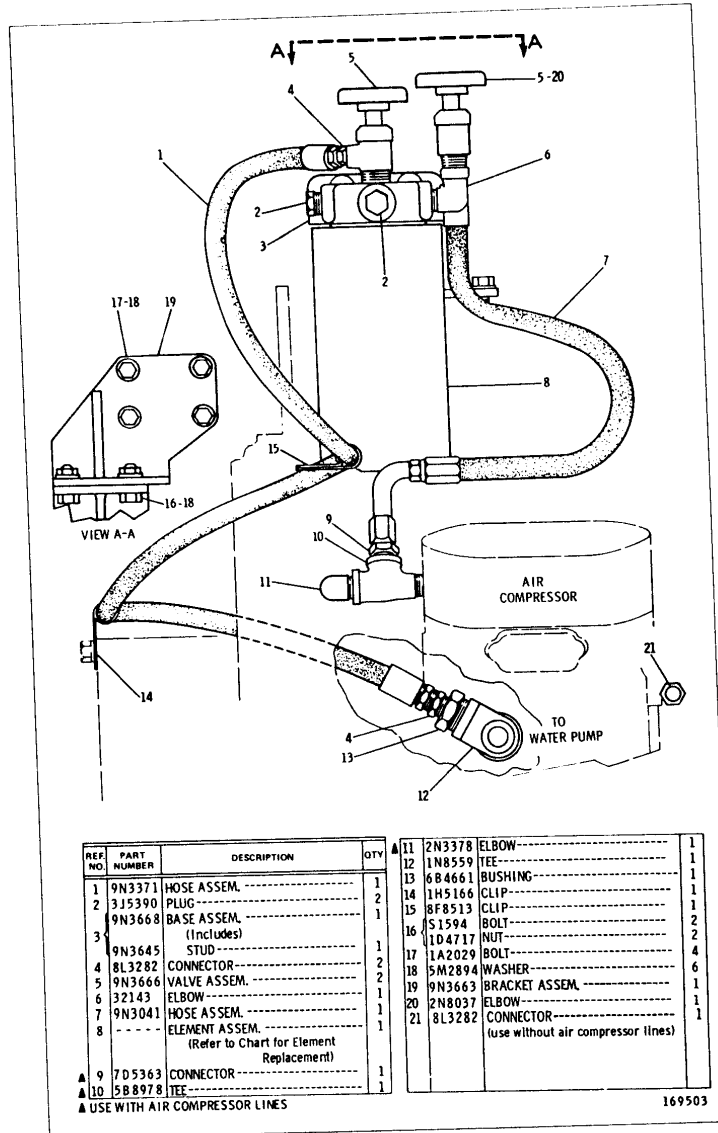
1



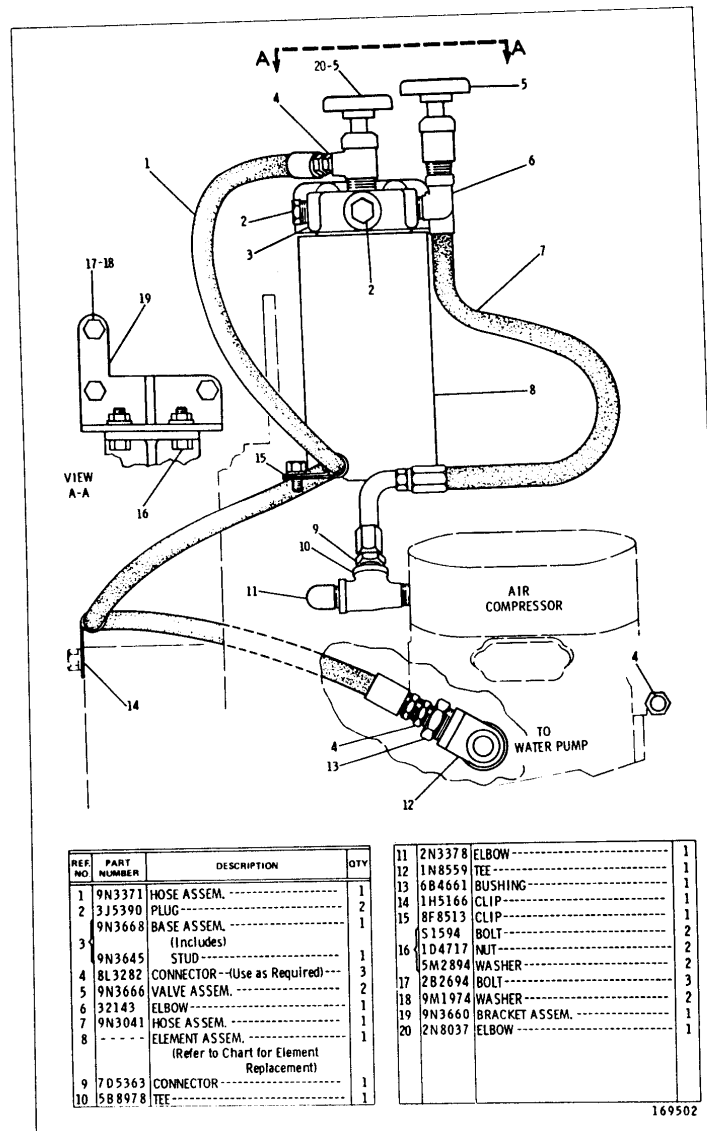
7N8640 COOLANT FILTER GROUP—Type 1
 FOR USE WITH GEAR DRIVEN AIR COMPRESSOR
 Element Replacement Chart is shown on Page 40H
 AN ATTACHMENT



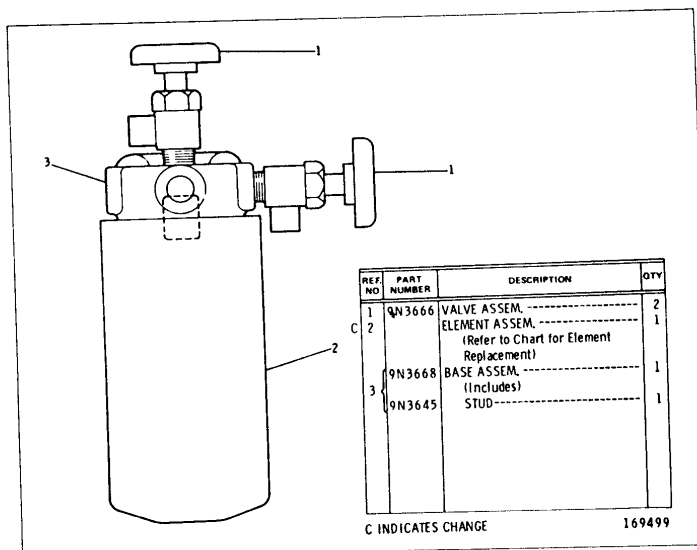
7N6640 COOLANT FILTER GROUP—Type 2
FOR USE WITH GEAR DRIVEN AIR COMPRESSOR
Element Replacement Chart is shown on Page 40H
AN ATTACHMENT



8N20 COOLANT FILTER GROUP
 FOR USE WITH NON-AFTERCOOLED MOBILE EQUIPMENT ENGINES WITH 58 TO 114 LITRE (14 TO 30 GAL.). Cannot be used with Instrument Panel. Element Replacement Chart is shown on Page 40H. AN ATTACHMENT



8N19 COOLANT FILTER GROUP
 FOR USE WITH AFTERCOOLED MOBILE EQUIPMENT ENGINES WITH 58 TO 115
 LITRE (15 TO 30 GAL.) COOLING SYSTEM CAPACITY. Cannot be used with Instrument
 Panel. Element Replacement Chart is shown on Page 40H. AN ATTACHMENT



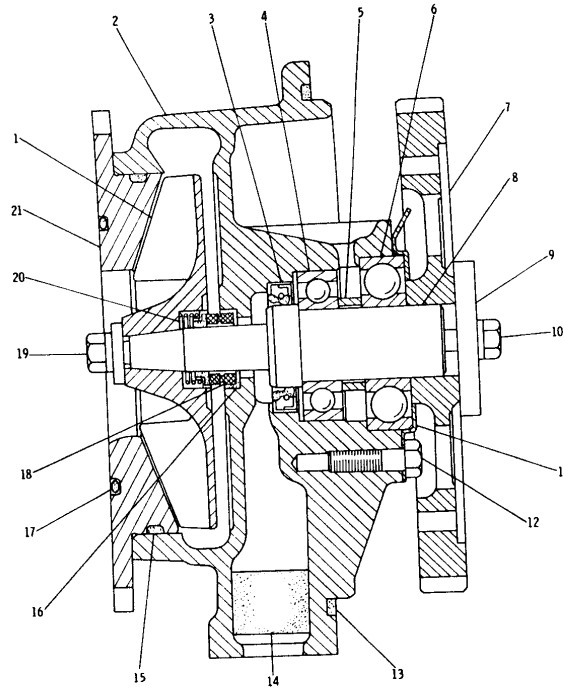
9N3382 COOLANT FILTER GROUP
 FOR USE ON ENGINES WITH 76 TO 151 LITRE (20 TO 40 GAL.) COOLING SYSTEM
 CAPACITY. HARDWARE AND HOSES ARE TO BE FURNISHED BY THE CUSTOMER
 Element Replacement Chart is shown on Page 40H. AN ATTACHMENT

COOLING CAPACITY	PRECHARGE* ELEMENT	MAINTENANCE** ELEMENT
30-57 L. (8-15 GAL.)	9N3366	9N3718
57-83 L. (15-22 GAL.)	9N3367	9N3368
83-114 L. (22-30 GAL.)	9N3367	9N3718

*USE WHEN SYSTEM DRAINED AND REFILLED

**FOR ROUTINE REPLACEMENT--SYSTEM NOT DRAINED

COOLANT FILTER ELEMENTS



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	4N3004	IMPELLER	1
2	4N1137	HOUSING	1
3	5P1713	SEAL	1
4	1B3867	BEARING	1
5	2N7942	SPACER	1
6	2L5271	BEARING	1
7	4N350	GEAR (74 teeth)	1
8	2N7941	SHAFT	1
9	3S4388	WASHER	1
10	2P3205	BOLT	1
11	4N1136	RETAINER	1
12	1B7182	BOLT	4
13	9M5894	SEAL	1
14	4N1400	FILTER	1
15	9M3786	SEAL	1
16	8S8821	SEAL	1
17	4F7387	SEAL	1
18	8S7762	RING	1
19	2P3204	BOLT	1
20	9M6527	WASHER	1
21	4N6556	SEAL ASSEM.	1
	4N3005	ADAPTER	1

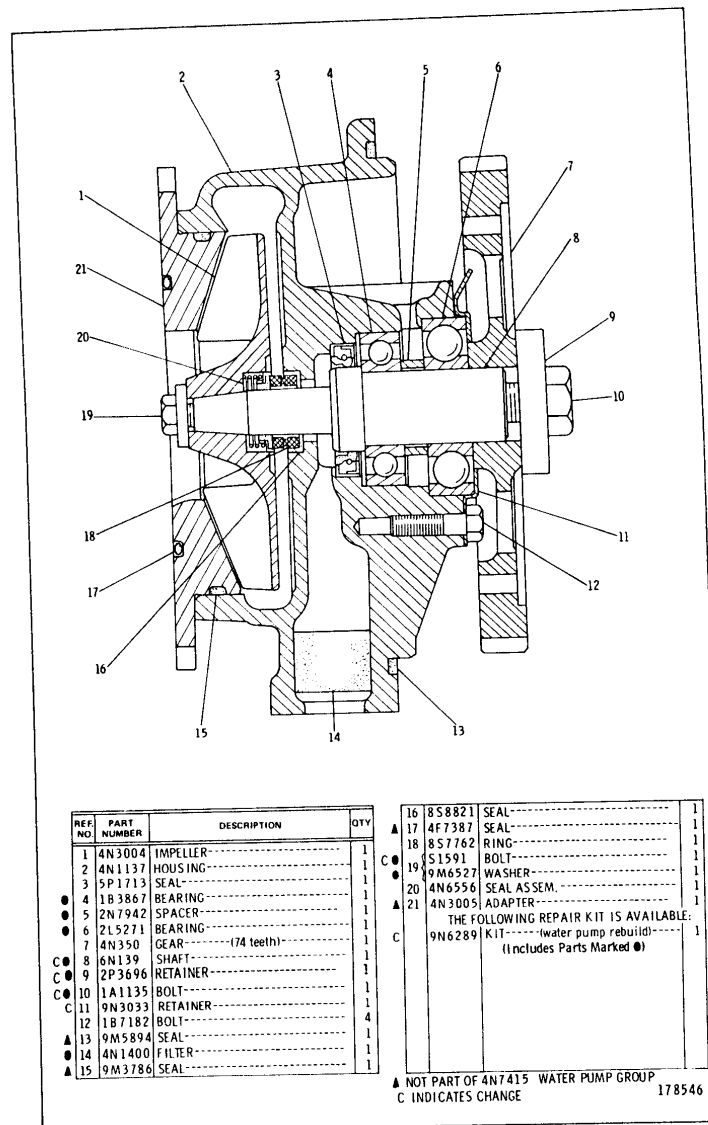
THE FOLLOWING REPAIR KIT IS AVAILABLE:
 9N6289 KIT water pump rebuild
 (Includes Parts Marked ●)

▲ NOT PART OF 4N7415 WATER PUMP GROUP

4N7415 WATER PUMP GROUP (4N3006 N/S)
 Serial No. 90U1 to 90U304 inclusive

178545

1

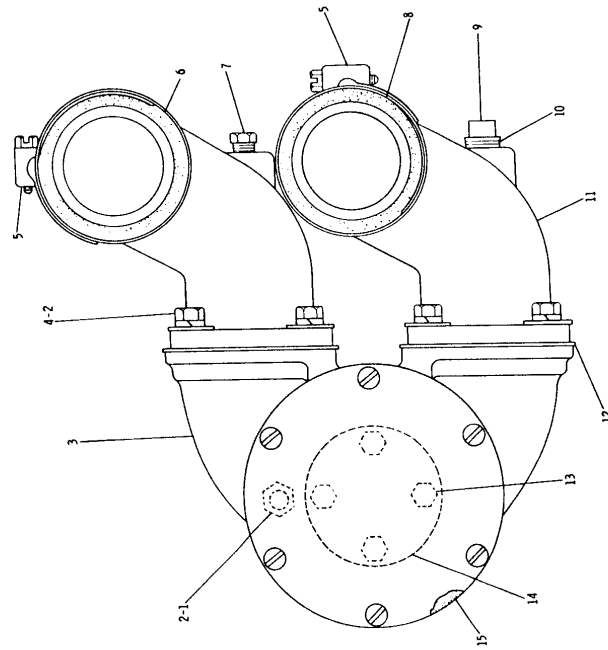


4N7415 WATER PUMP GROUP (4N3006 N/S)
 Serial No. 90U305—Up

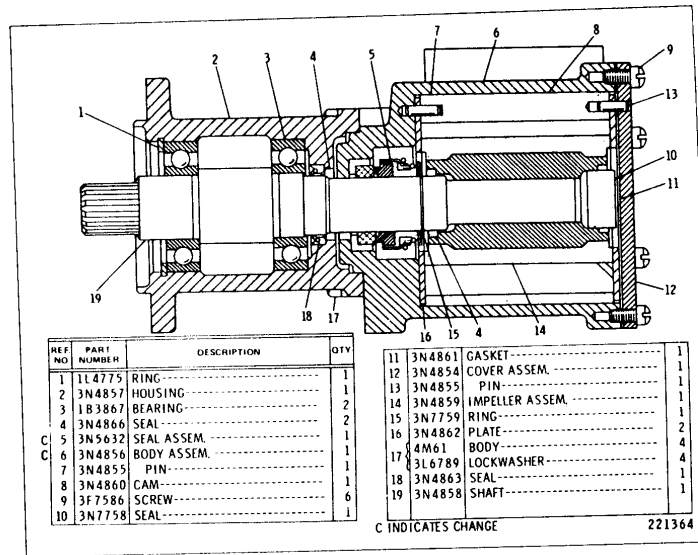
REF NO	PART NUMBER	DESCRIPTION	QTY
1	6F7012	STUD	4
2	104717	NUT	4
3	3N4506	LOCKWASHER	12
4	3N4851	PUMP GROUP	1
		(Separate Illustration)	
5	1A2029	BOLT	8
6	4B4278	WASHER	8
7	9A7959	CLAMP	4
8	256657	HOSE	5 in.
9	256657	HOSE	5 in.
10	612280	ROD	1
11	612274	ELBOW	1
12	3N4849	GASKET	2
13	4L3839	GASKET	4
14	049338	BOLT	1
15	3N4848	ADAPTER	1
	3N4850	GASKET	1

ORDER BY THE INCH

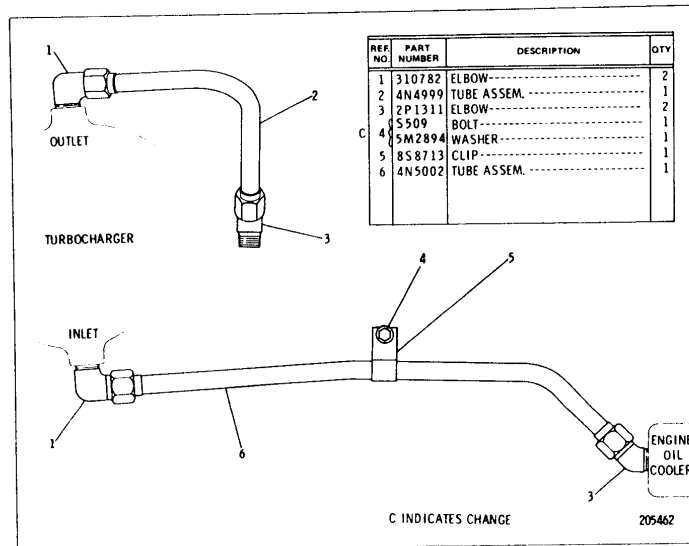
19187



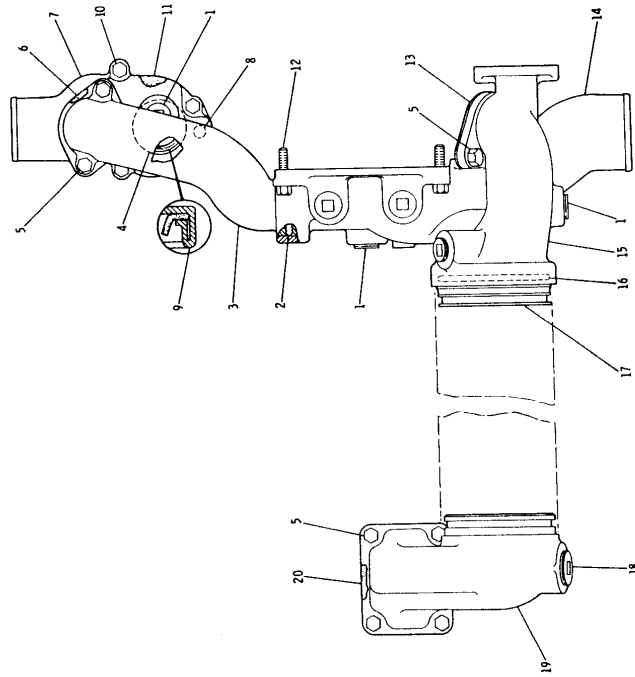
3N4852 AUXILIARY PUMP GROUP—Sea Water
AN ATTACHMENT



3N4851 AUXILIARY PUMP GROUP—Sea Water
Part of 3N4852 Auxiliary Pump Group shown on Page 42



4N4075 WATER LINES GROUP—Turbocharger Cooling



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	1B5174	PLUG	6
2	5K5959	SEAL	1
3	4N3002	ELBOW	1
4	6L5851	REGULATOR	1
5	2P3201	BOLT	8
6	4N790	GASKET	1
7	4N362	COVER	1
8	2H1145	GASKET	2
9	559645	SEAL	1
10	2P3216	BOLT	3
11	4N156	GASKET	1
12	2P3204	BOLT	4
13	4N1135	GASKET	1
14	4N3003	COVER	1
15	4N6256	BONNET	1
16	4F7387	SEAL	1
17	4N6257	ADAPTER	1
18	3B551	PLUG	1
19	4N640	BONNET	1
20	4N641	GASKET	1

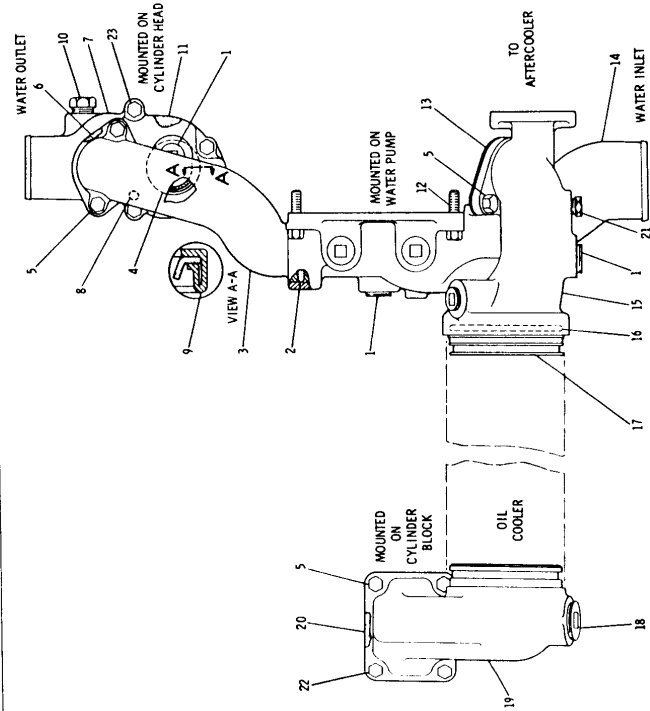
118652

4N1641 WATER LINES GROUP

Serial No. 90U1 to 90U230 inclusive

Part of 4N2238 Basic Engine Arrangement listed on Page 15. Only separate parts serviced

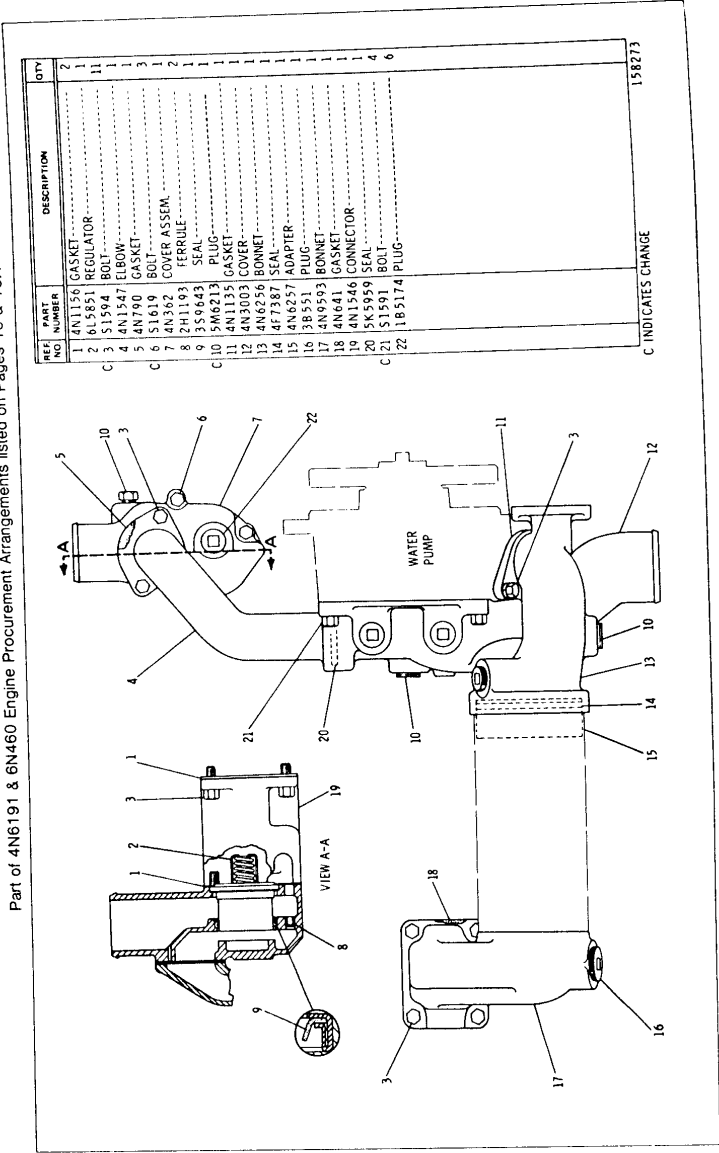
4N1641 WATER LINES GROUP
Serial No. 90U231—Up

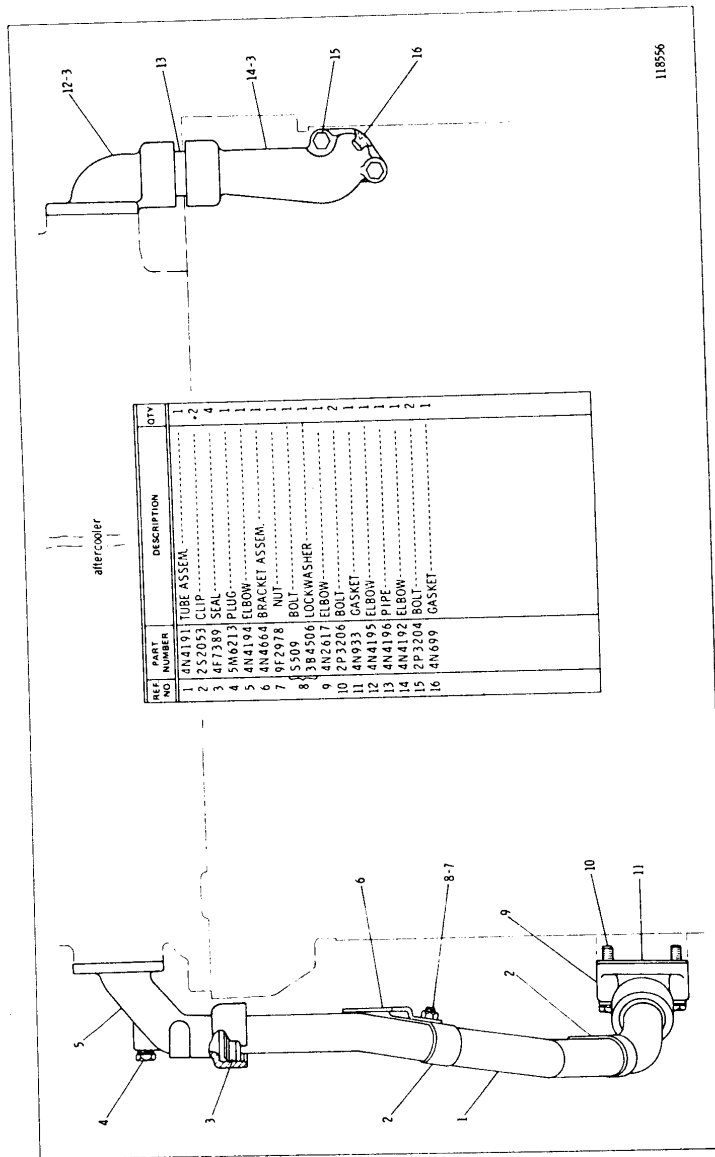


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	1B5174	PLUG	6
2	5K5959	SEAL	1
3	4N3002	ELBOW	1
4	6L5851	REGULATOR	1
5	51594	BOLT	7
6	4N790	GASKET	1
7	4N382	COVER ASSEM. (Includes Ferrules)	1
8	2H1193	FERRULE	1
9	559643	SEAL	1
10	5M4213	PLUG	1
11	4N1156	GASKET	1
12	51591	BOLT	4
13	4N1135	GASKET	1
14	4N3003	COVER	1
15	6N367	BONNET	1
16	4F7387	SEAL	1
17	4N6257	ADAPTER	1
18	3B551	PLUG	1
19	4N640	BONNET	1
20	4N641	GASKET	1
21	3J5390	PLUG	1
22	51594	BOLT (Use Without Oil Level Gauge)	1
23	51619	BOLT	3

C INDICATES CHANGE 214026

4N5466 WATER LINES GROUP
Part of 4N6191 & 6N460 Engine Procurement Arrangements listed on Pages 16 & 16A

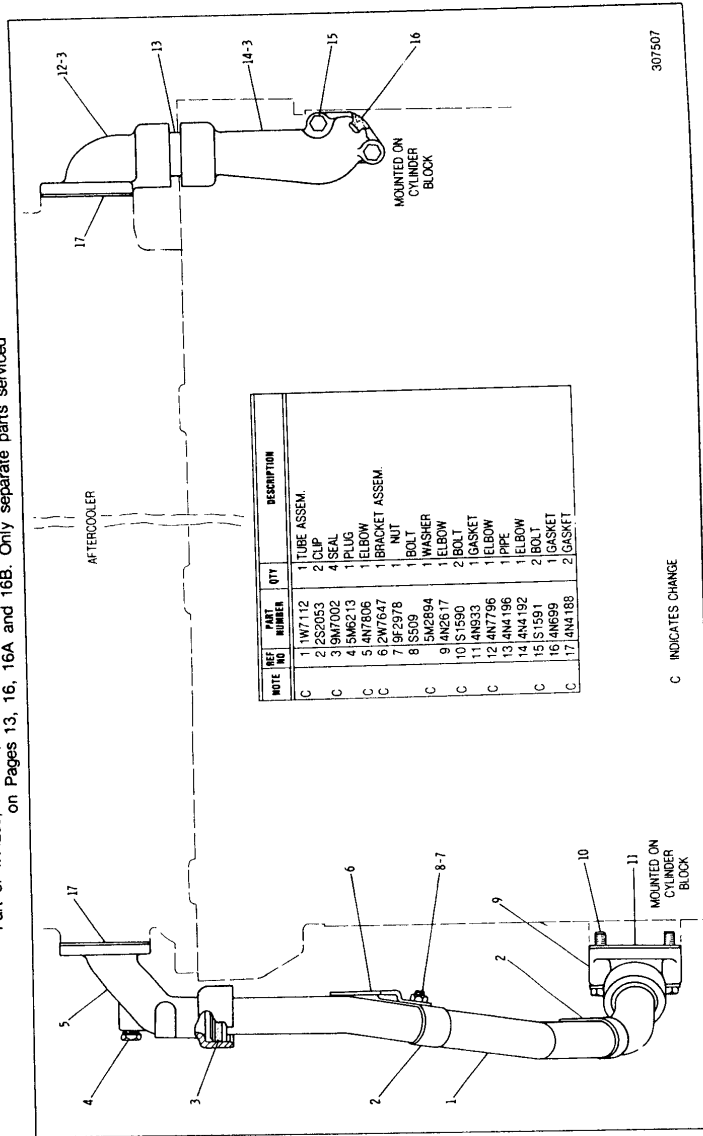




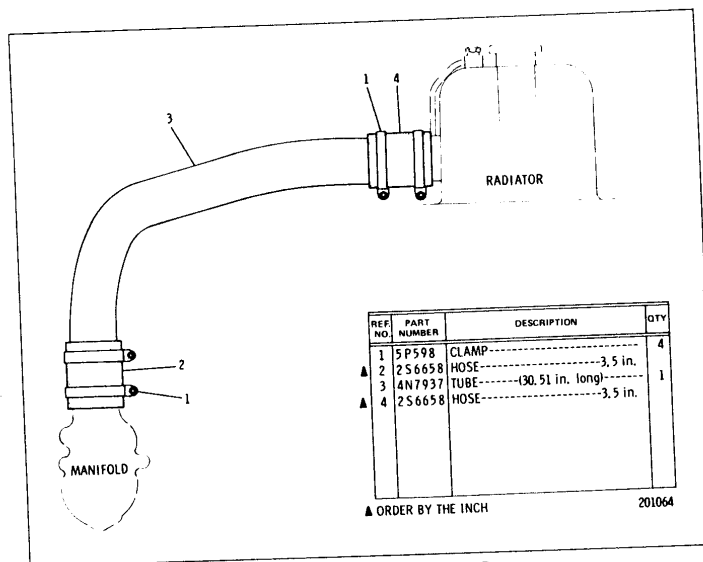
118556

4N2474 WATER LINES GROUP—Aftercooler—Type 1
 Part of 4N4238, 4N6191, 6N460, 6N458 and 6N459 Engine Procurement Arrangements listed on Pages 13, 16, 16A and 16B

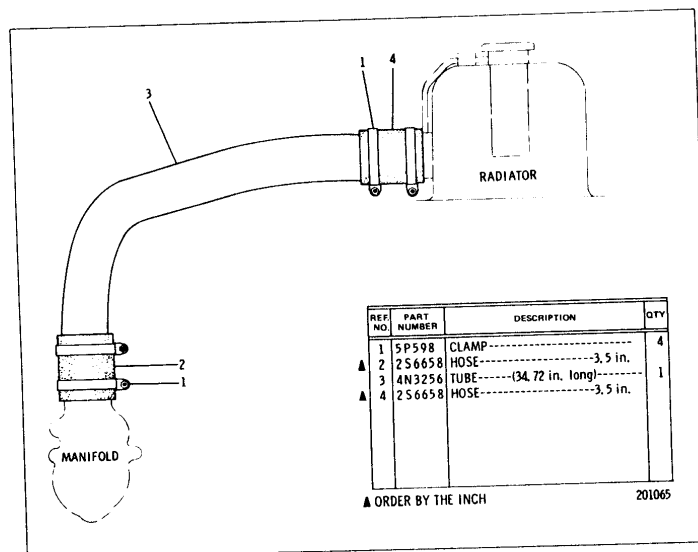
4N2474 WATER LINES GROUP—Aftercooler—Type 2
Part of 4N4238, 4N6191, 6N460, 6N459 Engine Procurement Arrangements listed
on Pages 13, 16, 16A and 16B. Only separate parts serviced



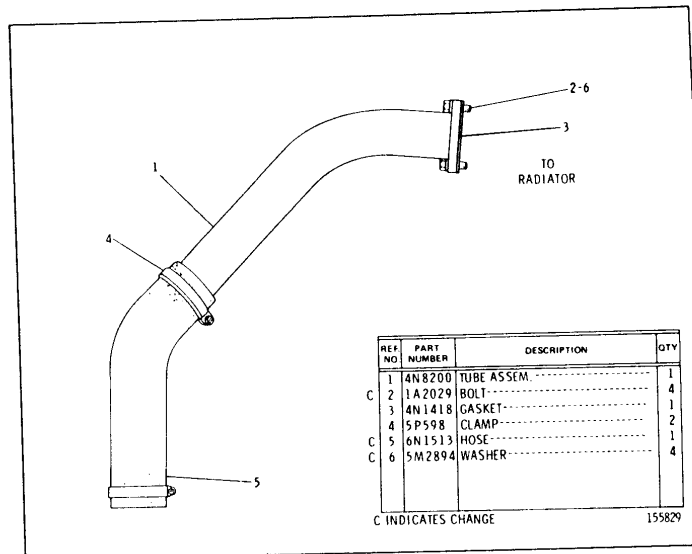
307507



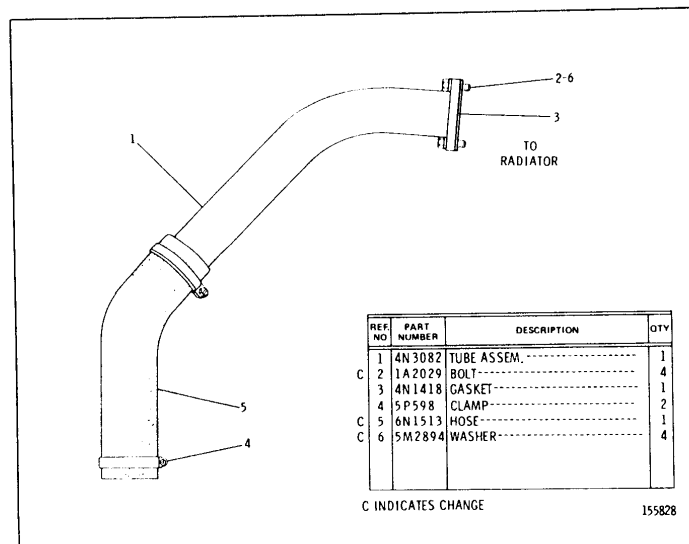
4N9776 WATER LINES GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



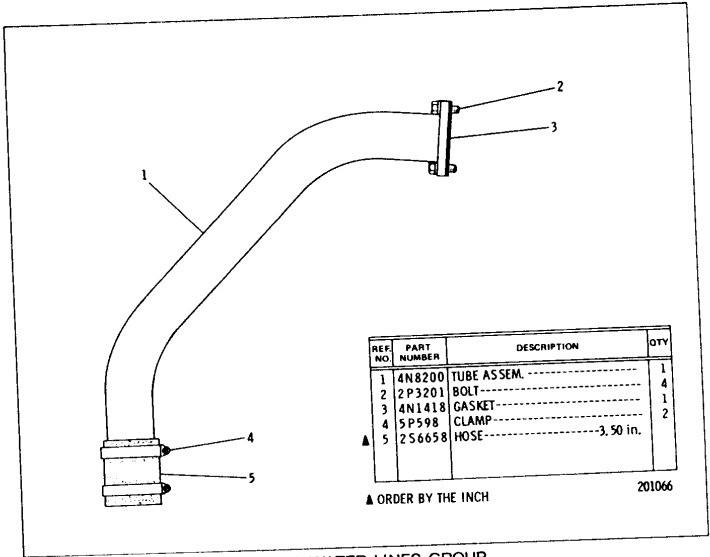
4N9777 WATER LINES GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



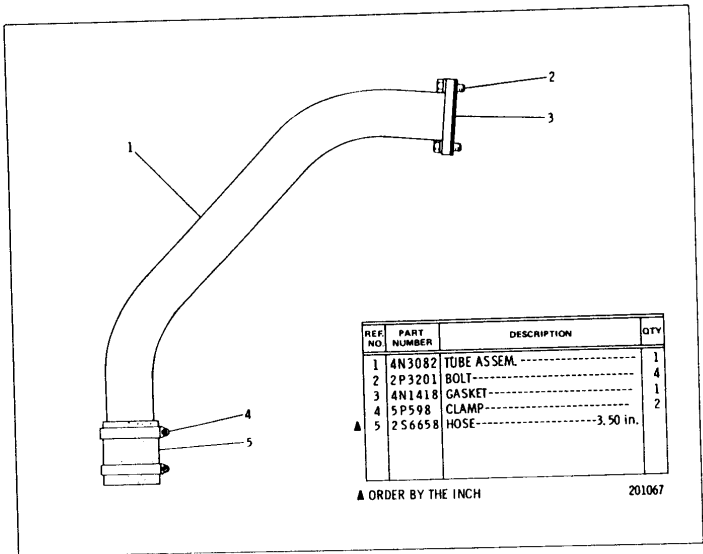
4N9778 WATER LINES GROUP—Type 2
Refer to Chart shown on Page 53B. AN ATTACHMENT



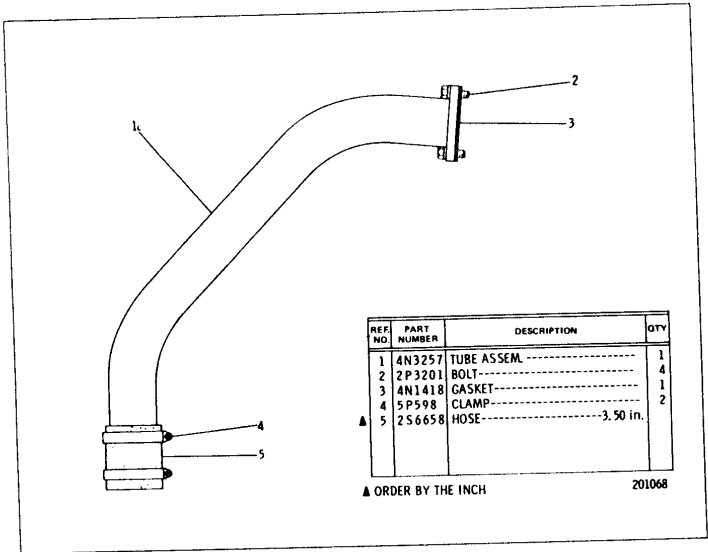
4N9779 WATER LINES GROUP—Type 2
Refer to Chart shown on Page 53B. AN ATTACHMENT



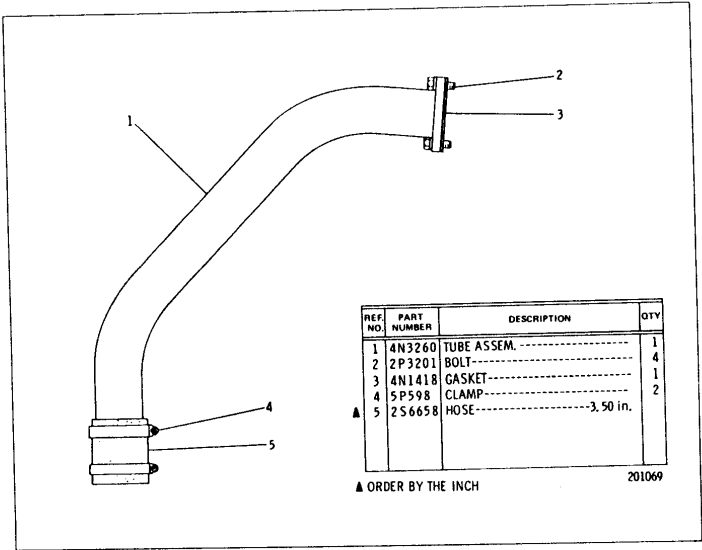
4N9778 WATER LINES GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



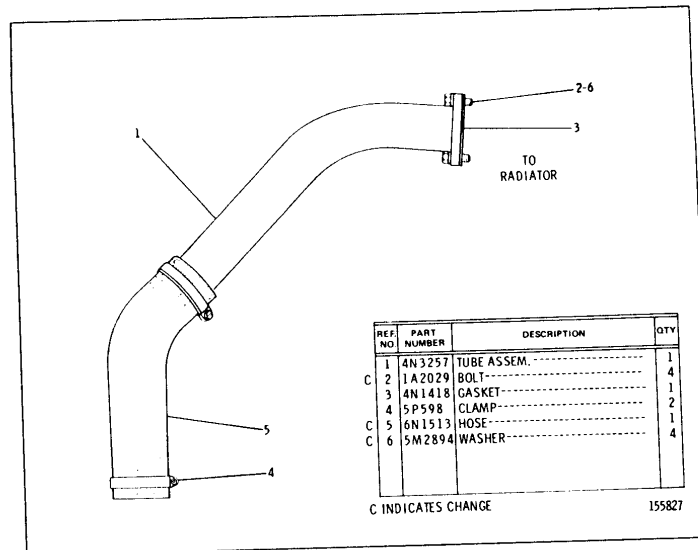
4N9779 WATER LINES GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



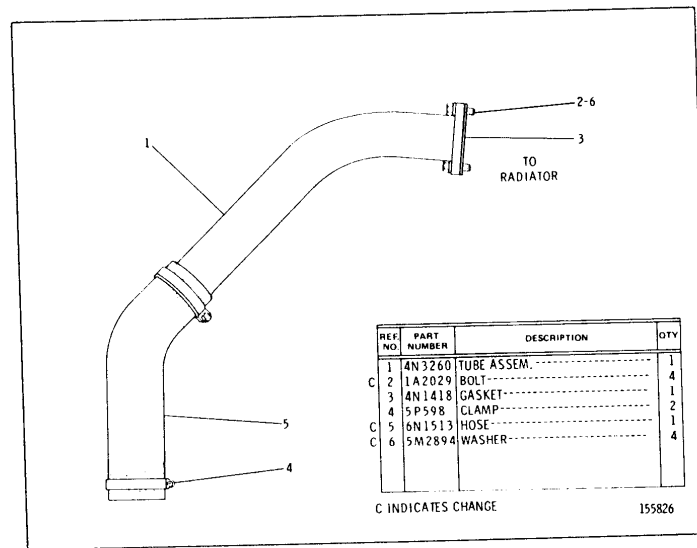
4N9780 WATER LINES GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



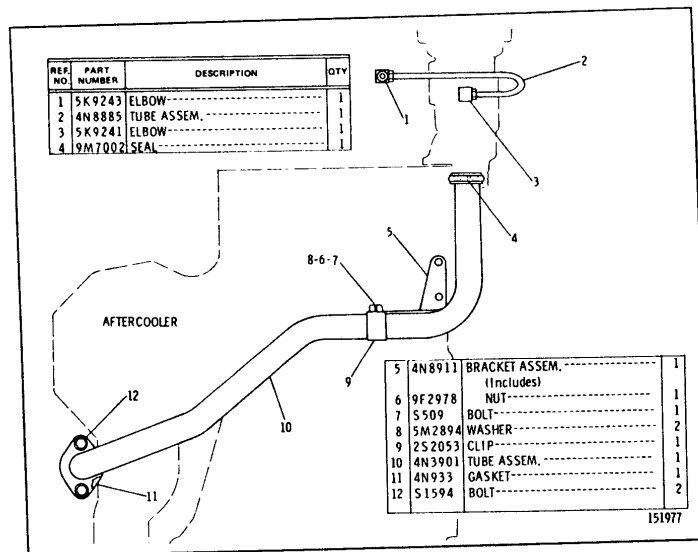
4N9781 WATER LINES GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



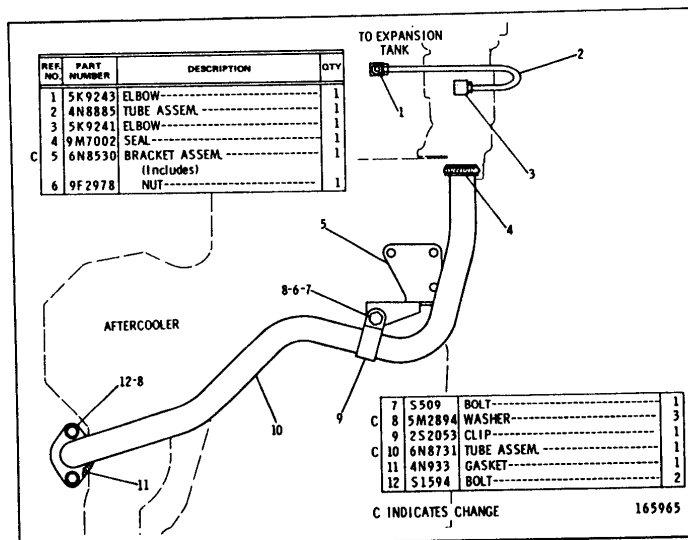
4N9780 WATER LINES GROUP—Type 2
Refer to Chart shown on Page 53B. AN ATTACHMENT



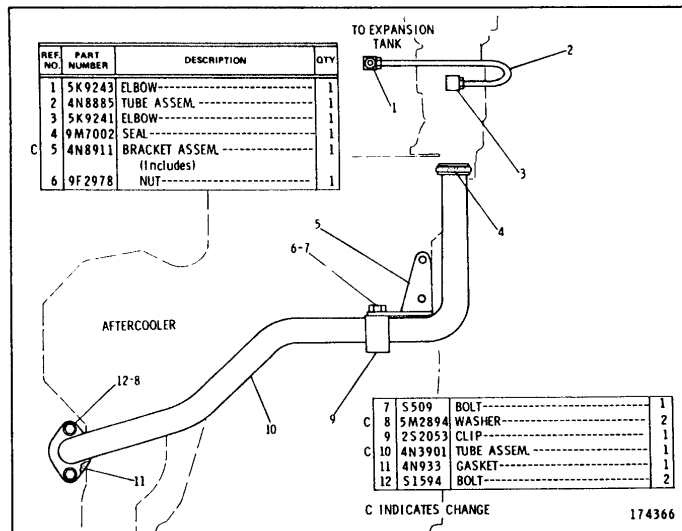
4N9781 WATER LINES GROUP—Type 2
Refer to Chart shown on Page 53B. AN ATTACHMENT



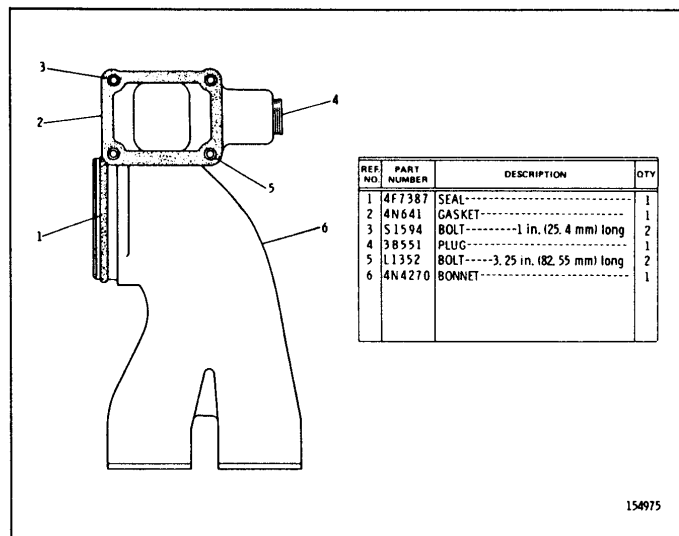
6N715 WATER LINES GROUP—Aftercooler—Type 1
FOR USE WITH FRONT POWER TAKE-OFF AND/OR EXPANSION TANK
AN ATTACHMENT



6N715 WATER LINES GROUP—Aftercooler—Type 2
FOR USE WITH FRONT POWER TAKE-OFF AND/OR EXPANSION TANK
AN ATTACHMENT



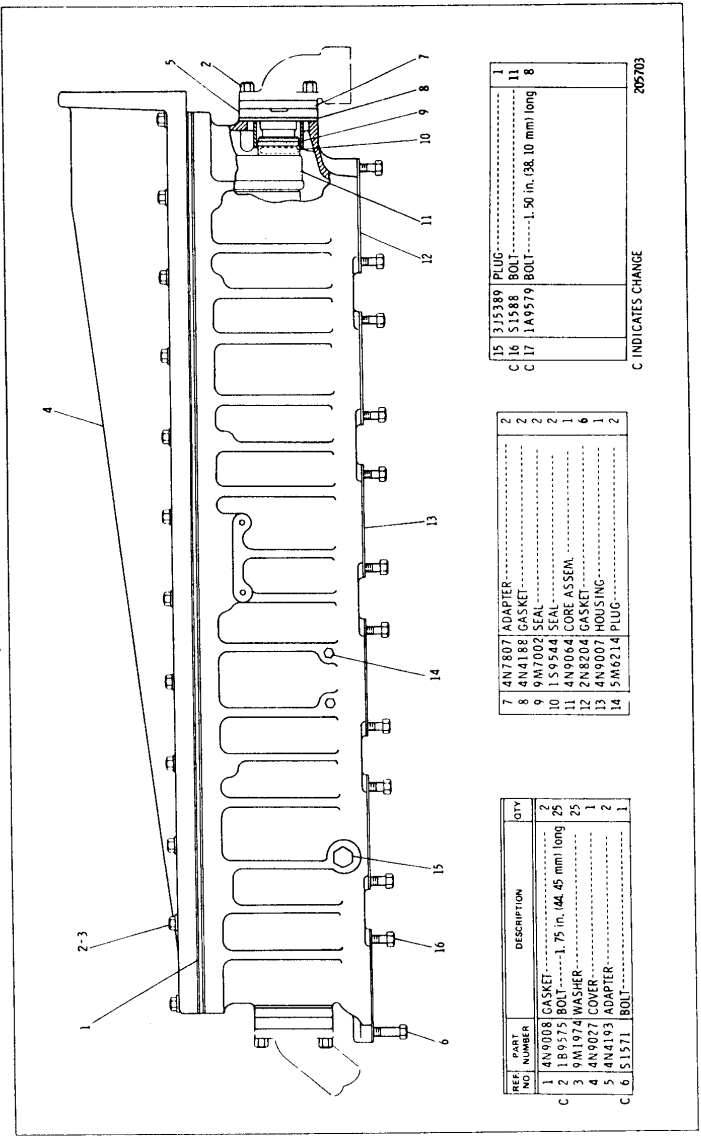
6N715 WATER LINES GROUP—Aftercooler—Type 3
FOR USE WITH FRONT POWER TAKE-OFF AND/OR EXPANSION TANK
AN ATTACHMENT

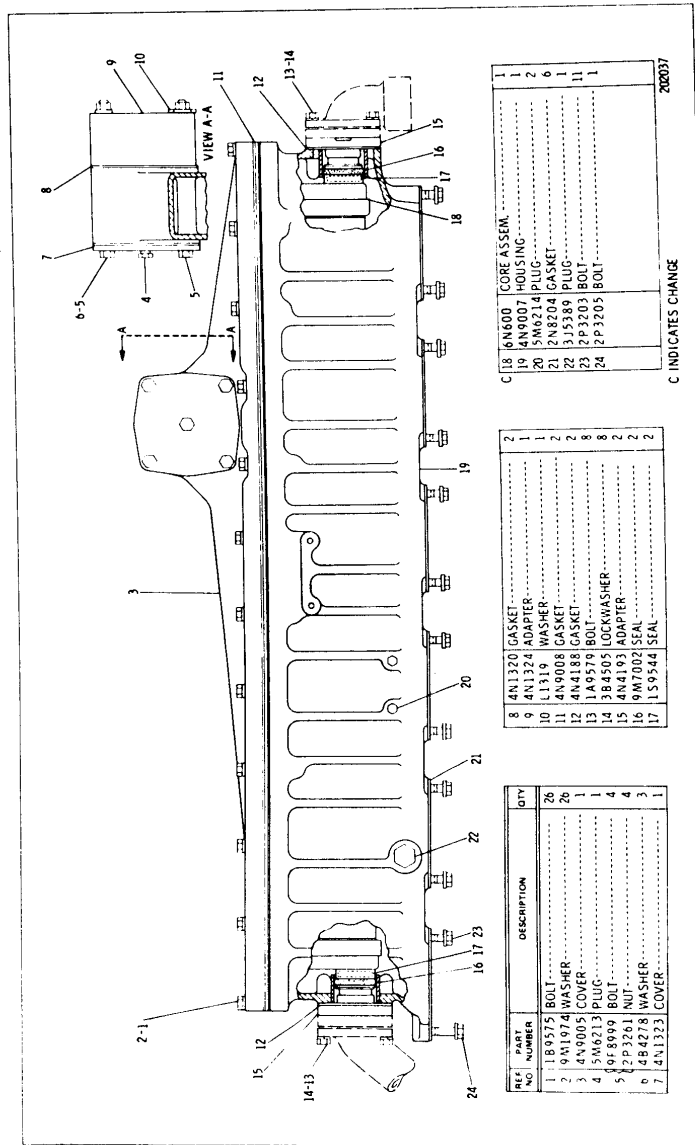


6N2182 WATER LINES GROUP
FOR USE WITH REMOTE MOUNTED TORQUE CONVERTER COOLER
CANNOT BE USED WITH WATERCOOLED MANIFOLD. AN ATTACHMENT



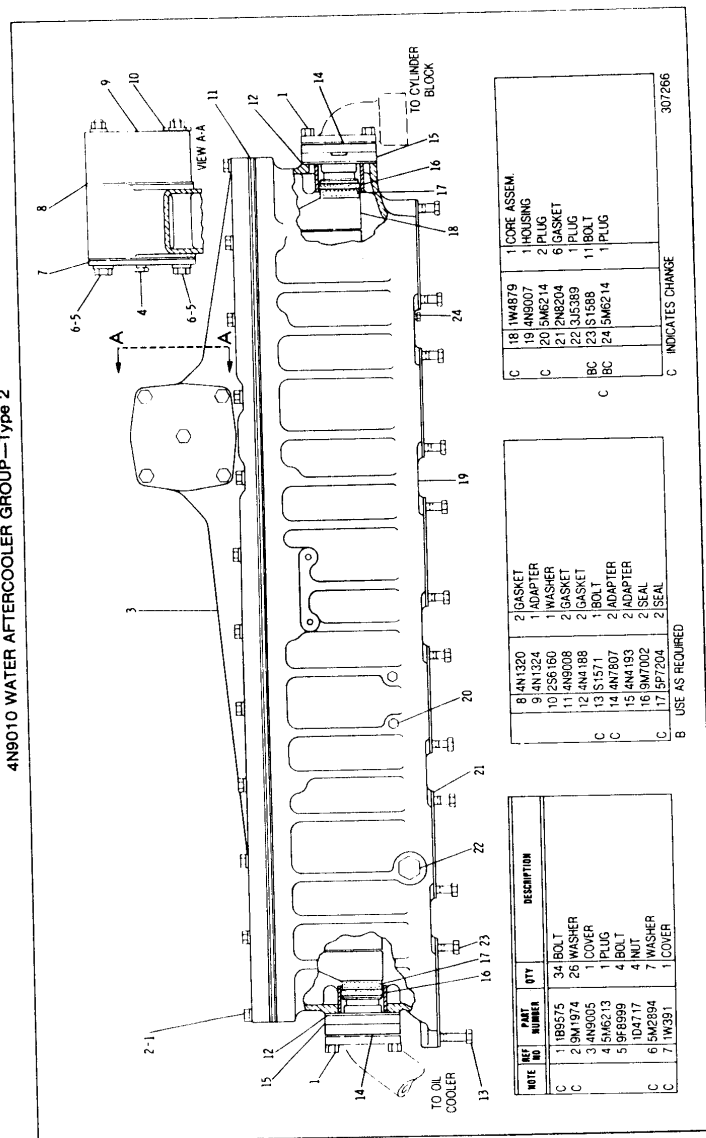
4N4077 WATER AFTERCOOLER GROUP
Part of 4N6191 and 6N460 Engine Procurement Arrangements listed on Pages 16 and 16A
Only separate parts serviced





4N9010 WATER AFTERCOOLER GROUP—Type 1
 Part of 4N4238, 6N458 and 6N459 Engine Procurement Arrangements listed on Pages 13 and 16B
 Only separate parts serviced

4N9010 WATER AFTERCOOLER GROUP—Type 2



NOTE	QTY	DESCRIPTION
1	1	COVER
2	1	COVER
3	1	COVER
4	1	COVER
5	1	COVER
6	1	COVER
7	1	COVER
8	1	COVER
9	1	COVER
10	1	COVER
11	1	COVER
12	1	COVER
13	1	COVER
14	1	COVER
15	1	COVER
16	1	COVER
17	1	COVER
18	1	COVER
19	1	COVER
20	1	COVER
21	1	COVER
22	1	COVER
23	1	COVER
24	1	COVER

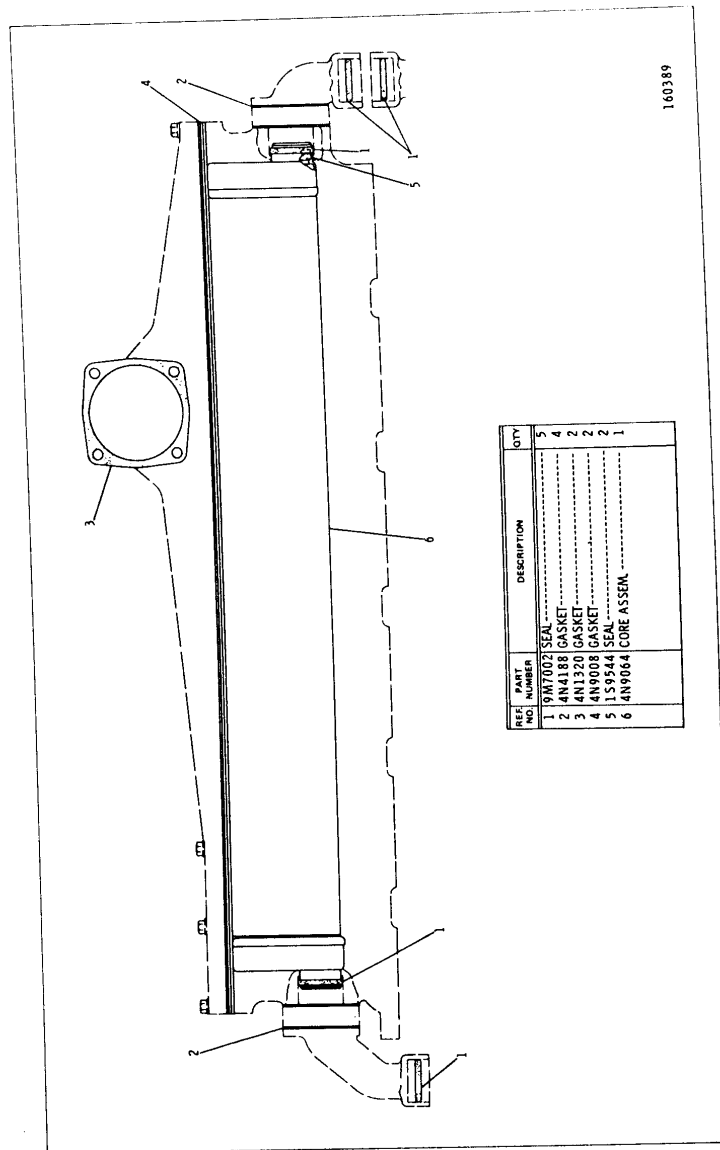
NOTE	QTY	DESCRIPTION
1	1	COVER
2	1	COVER
3	1	COVER
4	1	COVER
5	1	COVER
6	1	COVER
7	1	COVER
8	1	COVER
9	1	COVER
10	1	COVER
11	1	COVER
12	1	COVER
13	1	COVER
14	1	COVER
15	1	COVER
16	1	COVER
17	1	COVER
18	1	COVER
19	1	COVER
20	1	COVER
21	1	COVER
22	1	COVER
23	1	COVER
24	1	COVER

NOTE	QTY	DESCRIPTION
1	1	COVER
2	1	COVER
3	1	COVER
4	1	COVER
5	1	COVER
6	1	COVER
7	1	COVER
8	1	COVER
9	1	COVER
10	1	COVER
11	1	COVER
12	1	COVER
13	1	COVER
14	1	COVER
15	1	COVER
16	1	COVER
17	1	COVER
18	1	COVER
19	1	COVER
20	1	COVER
21	1	COVER
22	1	COVER
23	1	COVER
24	1	COVER

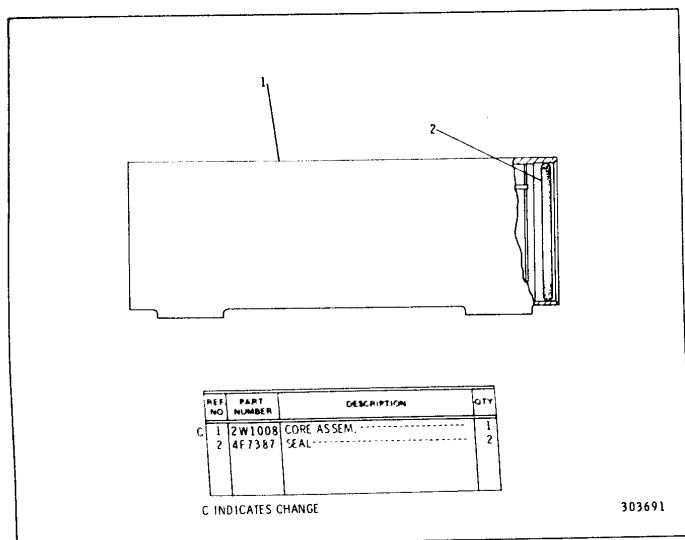
307266

C INDICATES CHANGE

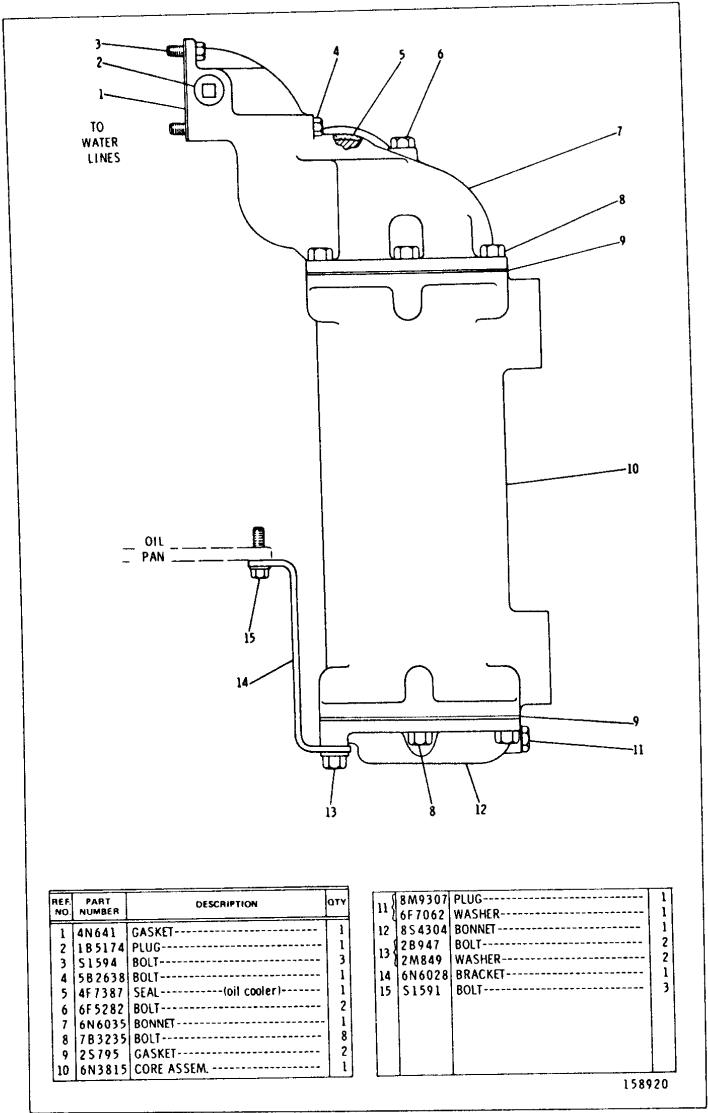
B USE AS REQUIRED



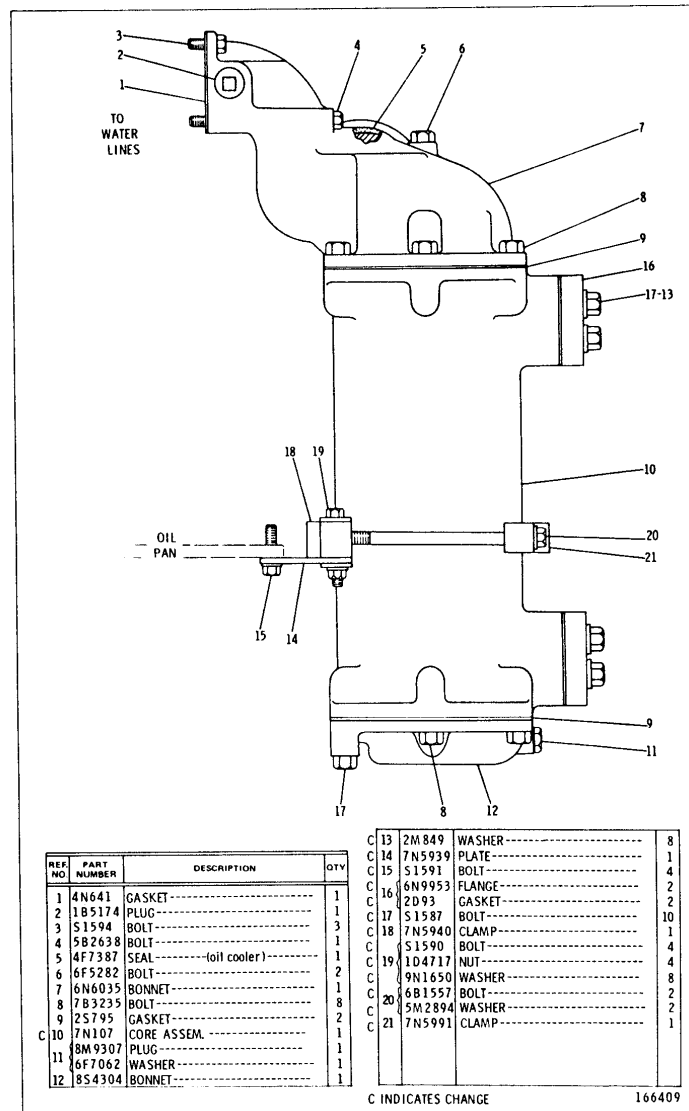
6N7948 AUXILIARY AFTERCOOLER GROUP—Sea Water
AN ATTACHMENT



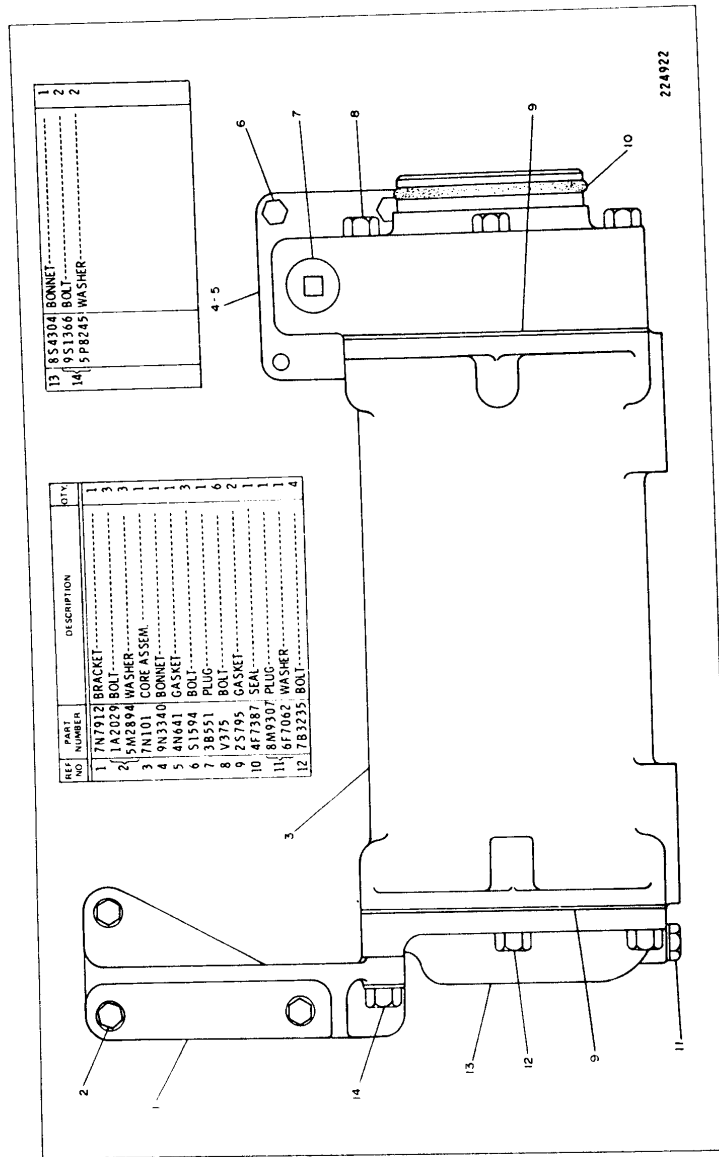
4N729 OIL COOLER GROUP
Part of 4N2238 Basic Engine Arrangement listed on Page 15



6N6036 TRANSMISSION OIL COOLER GROUP—Type 1
NOTE: CANNOT BE USED WITH R.H. STARTING MOTOR
AN ATTACHMENT

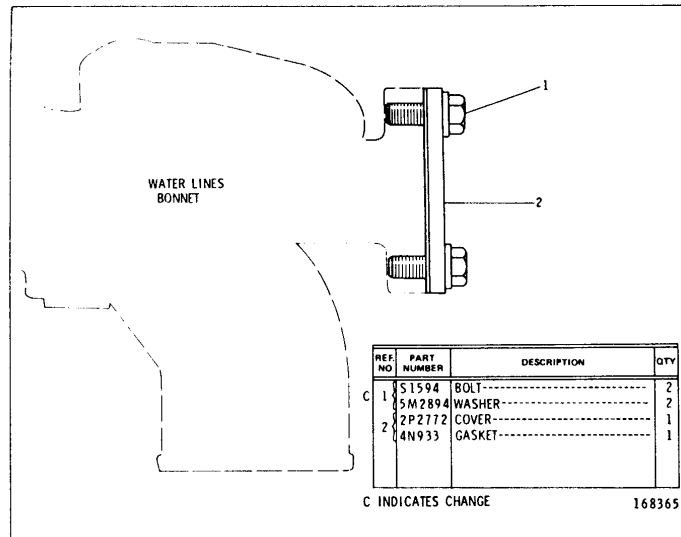


6N6036 TRANSMISSION OIL COOLER GROUP—Type 2
 NOTE: CANNOT BE USED WITH R.H. STARTING MOTOR
 AN ATTACHMENT

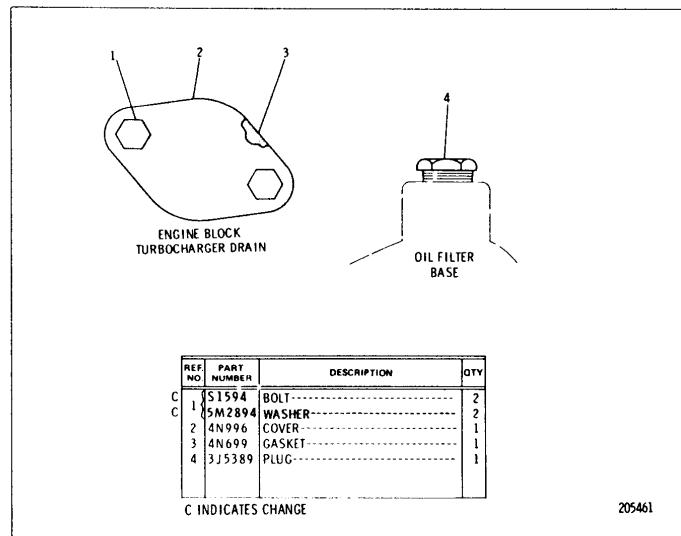


7N8085 TRANSMISSION OIL COOLER GROUP
CANNOT BE USED WITH ENGINES HAVING WATERCOOLED MANIFOLDS
AN ATTACHMENT

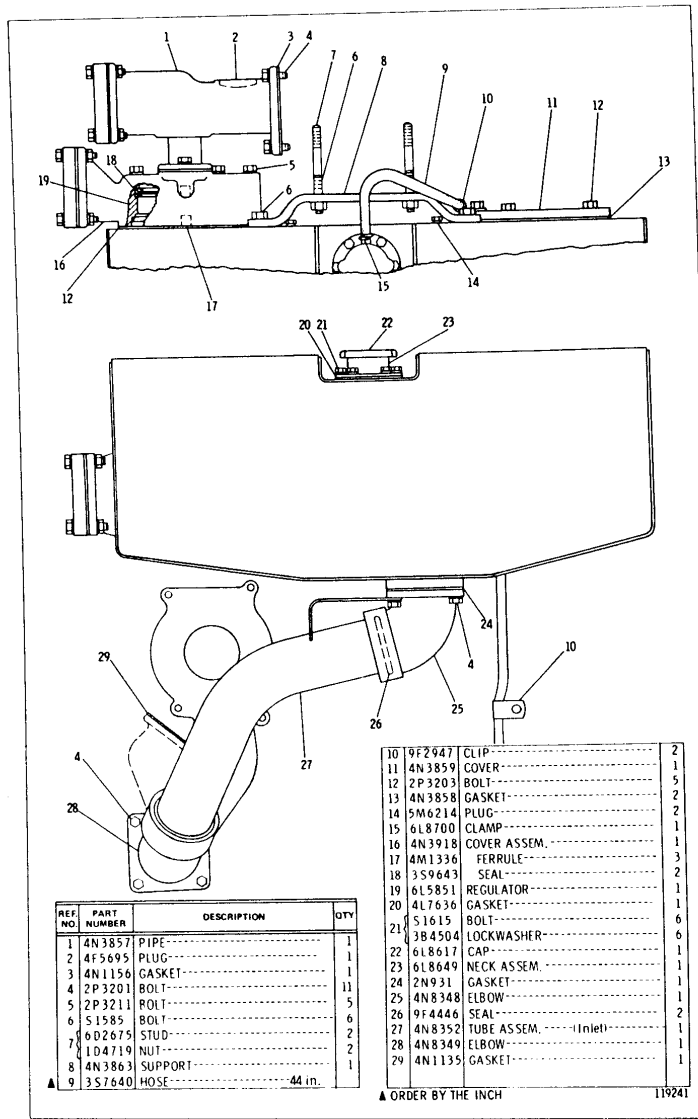
224922



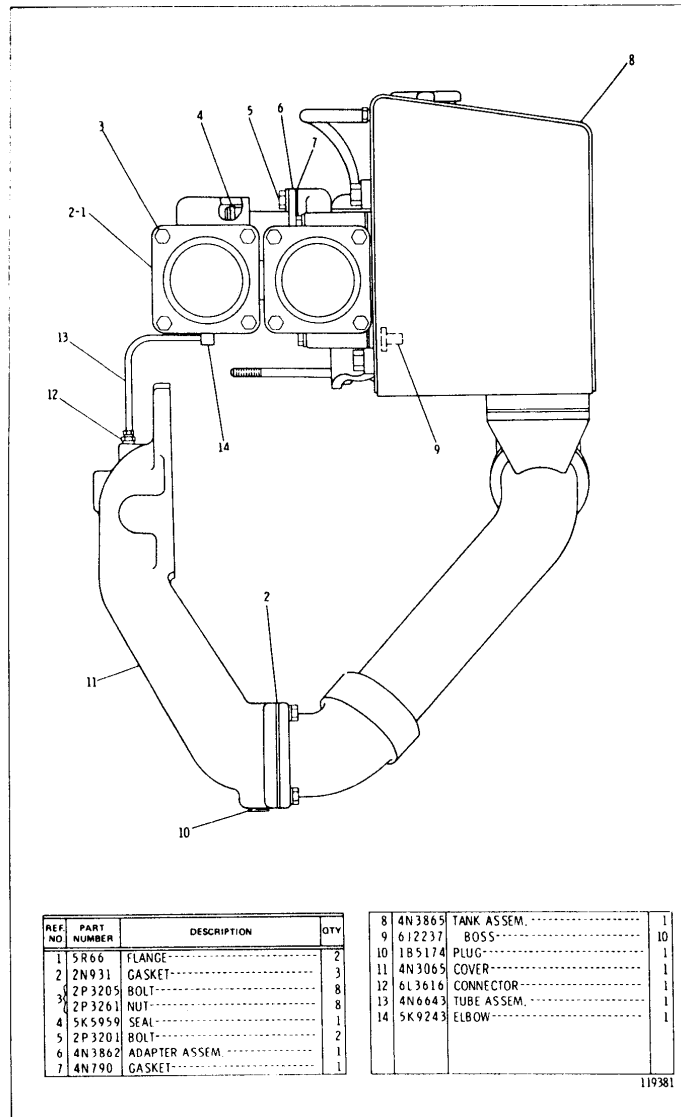
9N685 COOLING SYSTEM COVER GROUP



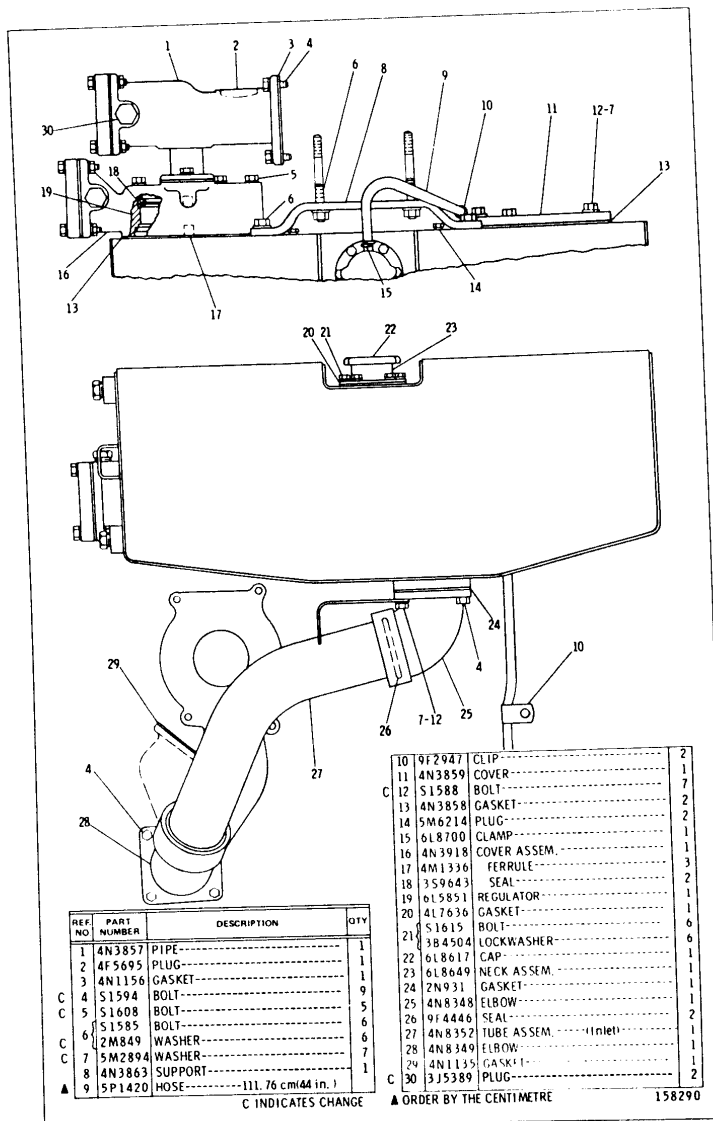
4N5489 COOLING SYSTEM COVER GROUP



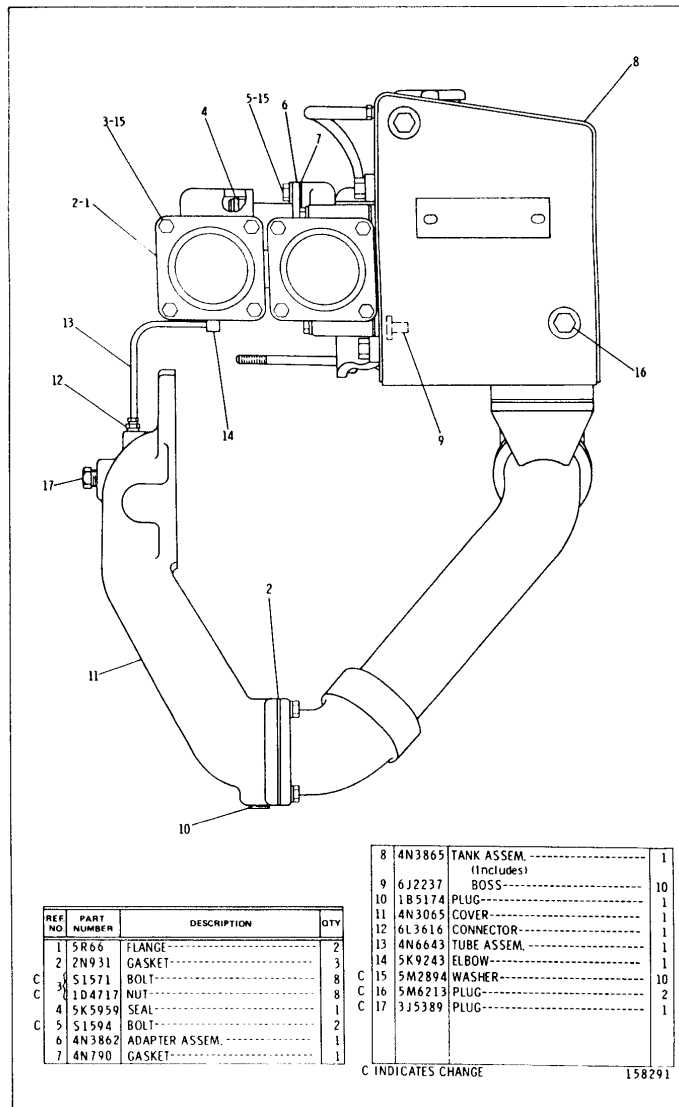
4N5467 EXPANSION TANK GROUP—Part 1—Type 1
AN ATTACHMENT



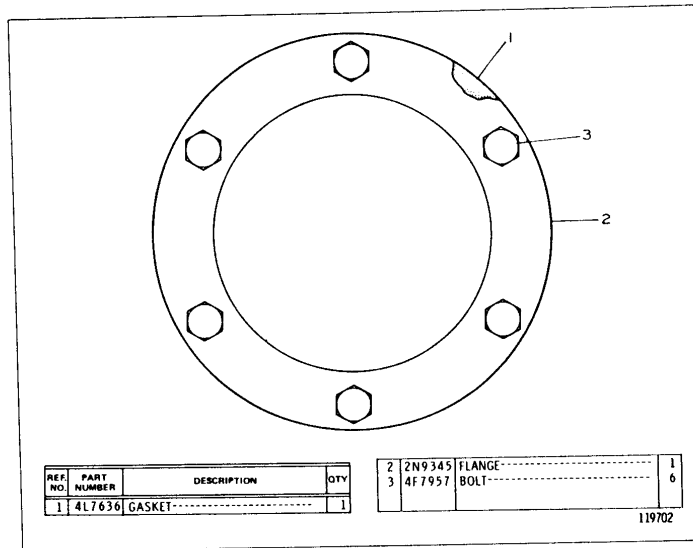
4N5467 EXPANSION TANK GROUP—Part 2—Type 1
AN ATTACHMENT



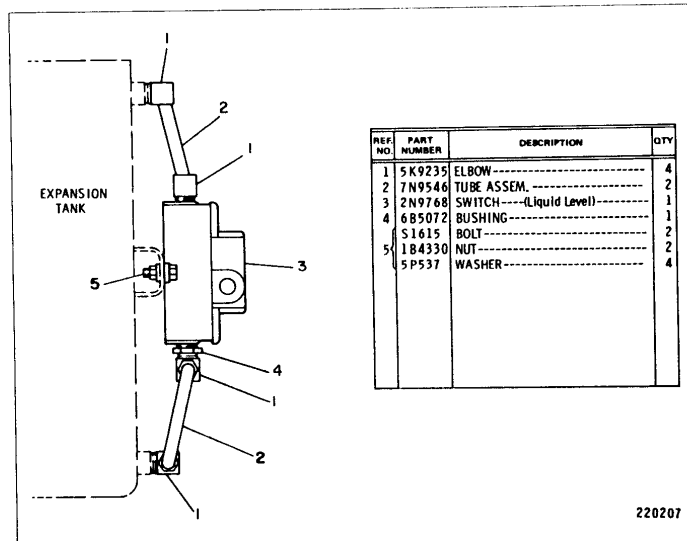
4N5467 EXPANSION TANK GROUP—Part 1—Type 2
AN ATTACHMENT



4N5467 EXPANSION TANK GROUP—Part 2—Type 2
AN ATTACHMENT



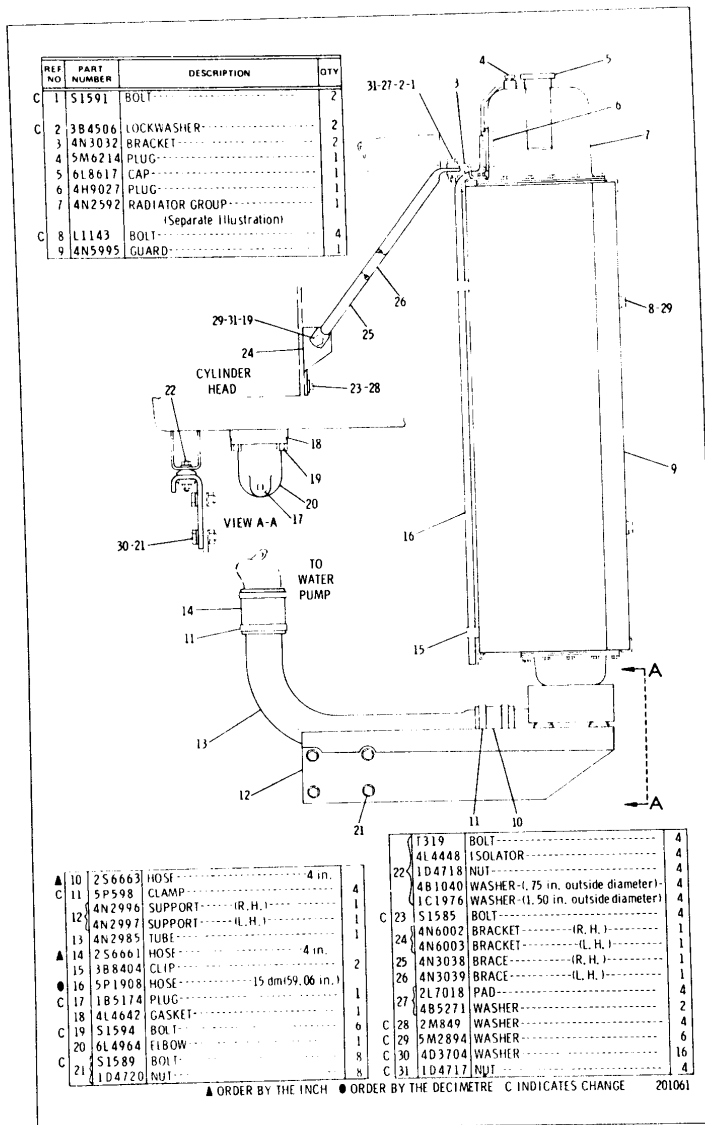
4N7050 AUXILIARY EXPANSION TANK CONNECTIONS GROUP
AN ATTACHMENT



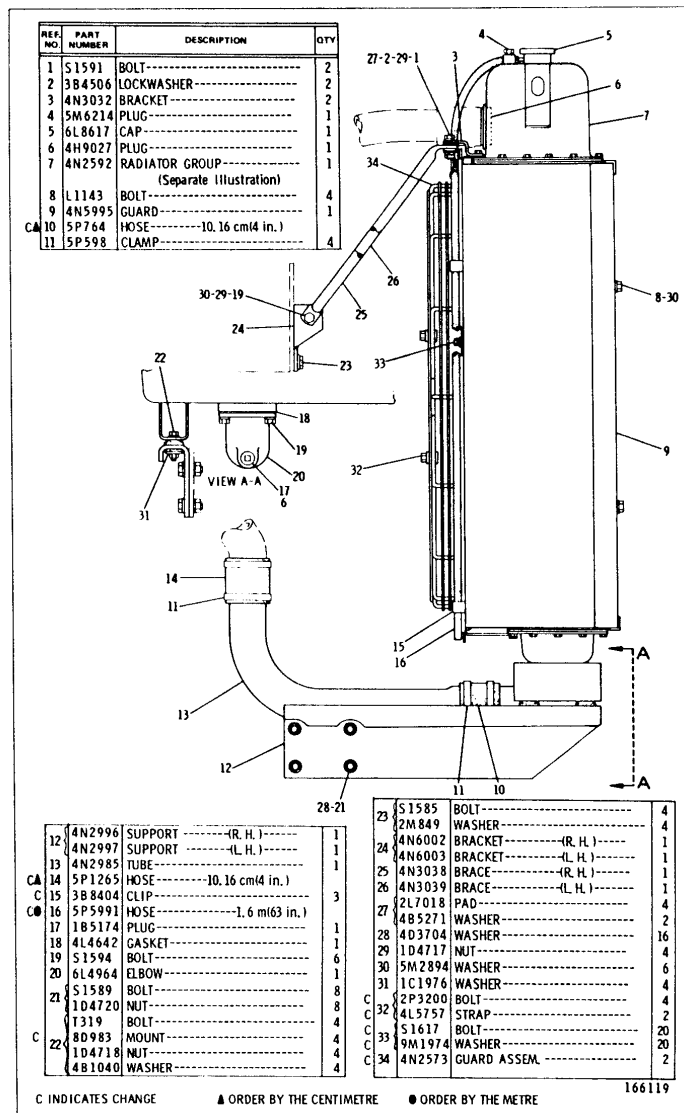
7N9528 WATER LEVEL GAUGE GROUP
AN ATTACHMENT

RADIATOR, FAN DRIVE, WATER LINES AND FAN CHART (4N6973 N/S)

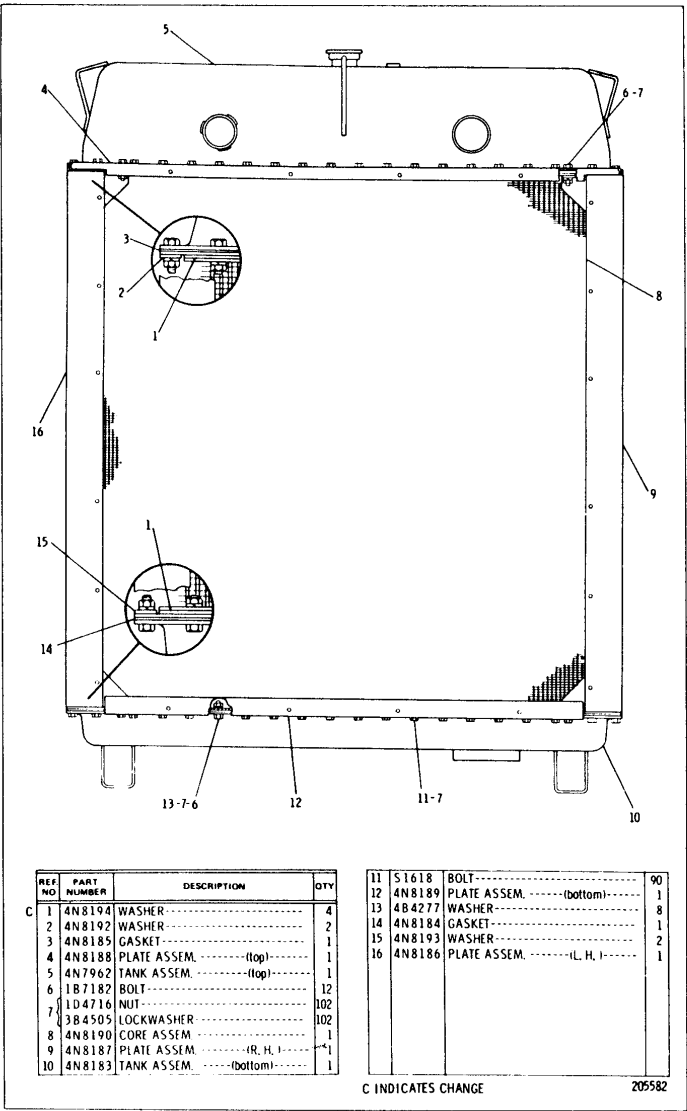
3406 RADIATOR, FAN AND FAN DRIVE SELECTION										WATER LINES SELECTION	
ENGINE RPM		FAN TYPE	FAN SPEED	2100		1800		1500		DRY MANIFOLD	WET MANIFOLD
RAD. GP.				LOW	HIGH	LOW	HIGH	LOW	HIGH		
4N3014 9.5 Ft. 2	BLOWER	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N2569 4N3143 .681	4N2569 4N3176 .800	4N2569 4N3176 .941	4N2569 4N3176 .800	4N2569 4N3176 .941	4N2569 4N3176 .800	4N2569 4N3176 .941	4N9776	4N9777
	SUCTION	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N2570 4N3133 .681	4N2570 4N3175 .800	4N2570 4N3175 .941	4N2570 4N3175 .800	4N2570 4N3175 .941	4N2570 4N3175 .800	4N2570 4N3175 .941		
4N3015 9.5 Ft. 2	BLOWER	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N2569 4N3143 .681	4N2569 4N3176 .800	4N2569 4N3176 .941	4N2569 4N3176 .800	4N2569 4N3176 .941	4N2569 4N3176 .800	4N2569 4N3176 .941	4N9776	4N9777
	SUCTION	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N2570 4N3133 .681	4N2570 4N3175 .800	4N2570 4N3175 .941	4N2570 4N3175 .800	4N2570 4N3175 .941	4N2570 4N3175 .800	4N2570 4N3175 .941		
4N3016 15.0 Ft. 2	BLOWER	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N3093 4N3139 .571	4N3093 4N3178 .681	4N3093 4N3178 .800	4N3093 4N3178 .681	4N3093 4N3178 .800	4N3093 4N3178 .681	4N3093 4N3178 .800	4N9778	4N9779
	SUCTION	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N3094 4N3138 .571	4N3094 4N3177 .681	4N3094 4N3177 .800	4N3094 4N3177 .681	4N3094 4N3177 .800	4N3094 4N3177 .681	4N3094 4N3177 .800		
4N3023 17.0 Ft. 2	BLOWER	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N3465 4N4729 .485	4N3465 4N3139 .571	4N3465 4N3178 .681	4N3465 4N3178 .681	4N3465 4N3178 .800	4N3465 4N3178 .681	4N3465 4N3178 .800	4N9780	4N9781
	SUCTION	FAN GP. FAN DRIVE GP. DRIVE RATIO	4N3466 4N4728 .485	4N3466 4N3138 .571	4N3466 4N3177 .681	4N3466 4N3177 .681	4N3466 4N3177 .800	4N3466 4N3177 .681	4N3466 4N3177 .800		



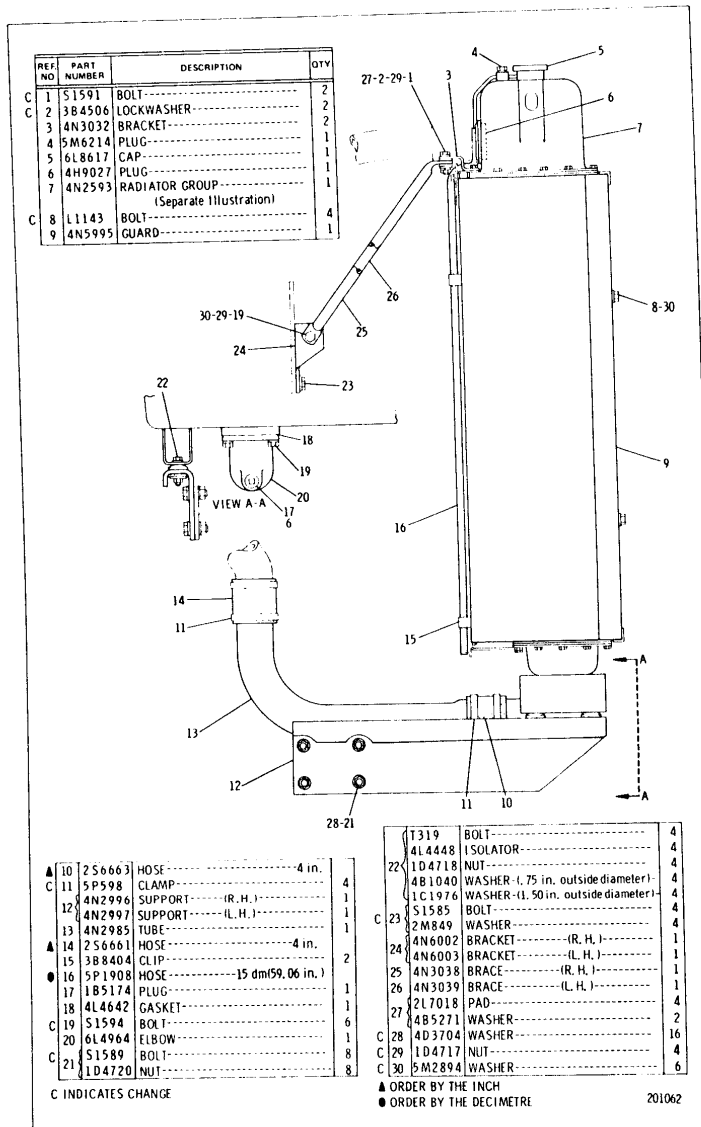
4N3014 RADIATOR GROUP—9.5 Square Feet, 4 Row—Type 1
 4N2592 Radiator parts are shown on Page 55
 Refer to Chart shown on Page 53B
 AN ATTACHMENT



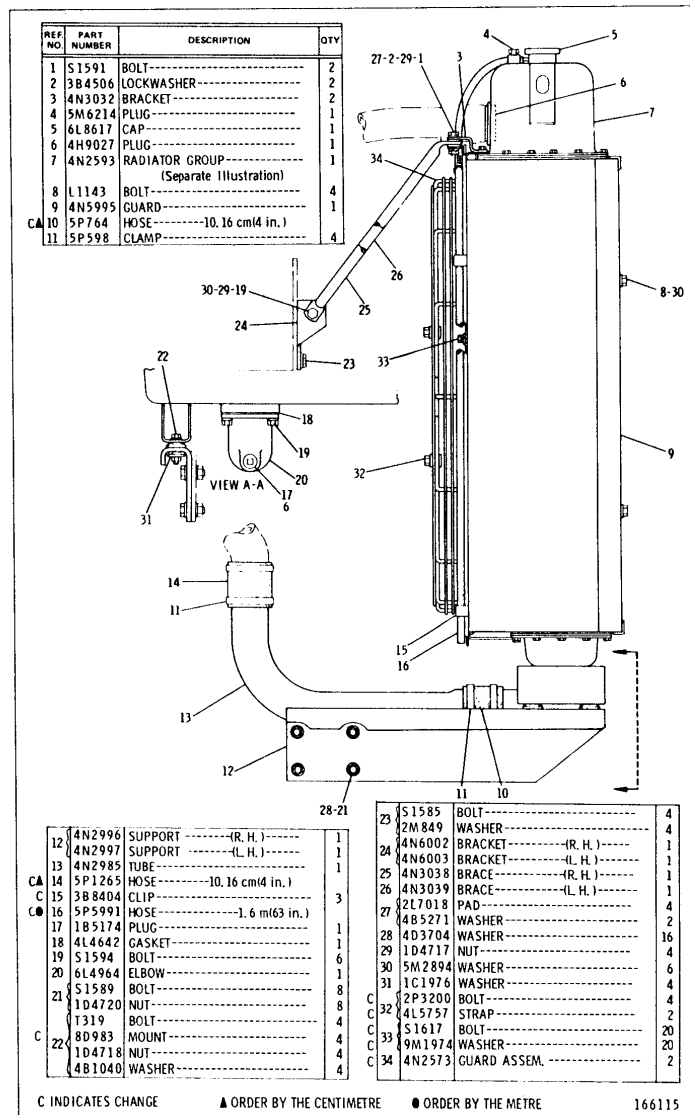
4N3014 RADIATOR GROUP—9.5 Square Feet, 4 Row—Type 2
 4N2592 Radiator parts are shown on Page 55
 Refer to Chart shown on Page 53B
 AN ATTACHMENT



4N2592 RADIATOR GROUP
Part of 4N3014 Radiator Group shown on Pages 54 & 54A



4N3015 RADIATOR GROUP—9.5 Square Feet, 6 Row—Type 1
 4N2593 Radiator parts are shown on Page 57
 Refer to Chart shown on Page 53B. AN ATTACHMENT

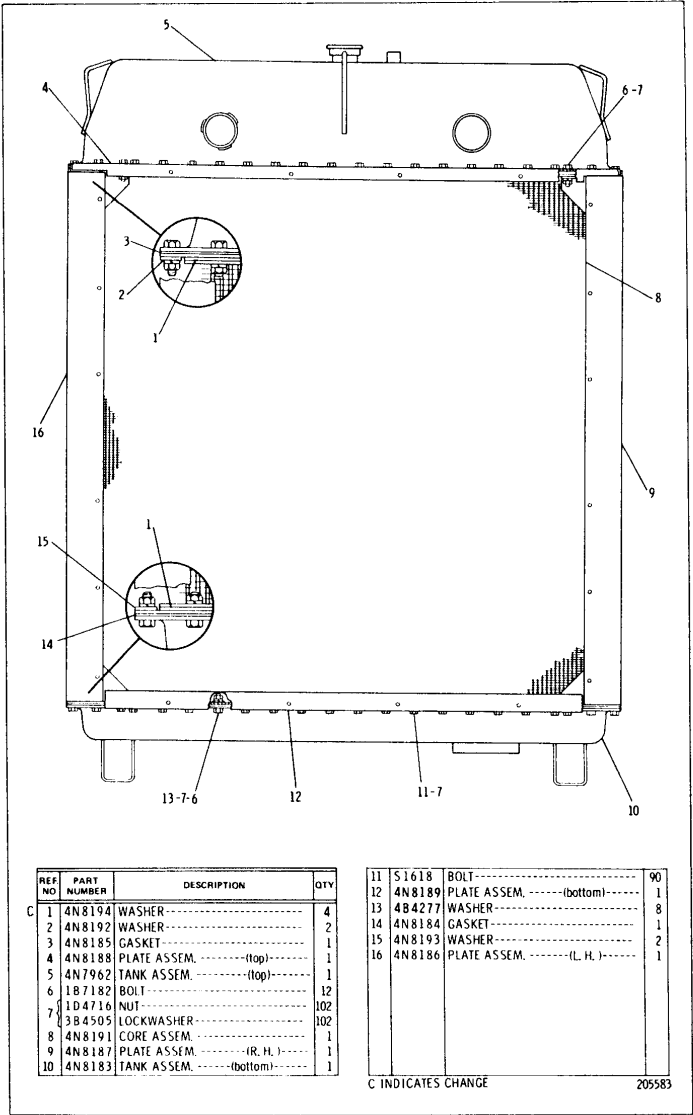


4N3015 RADIATOR GROUP—9.5 Square Feet, 6 Row—Type 2

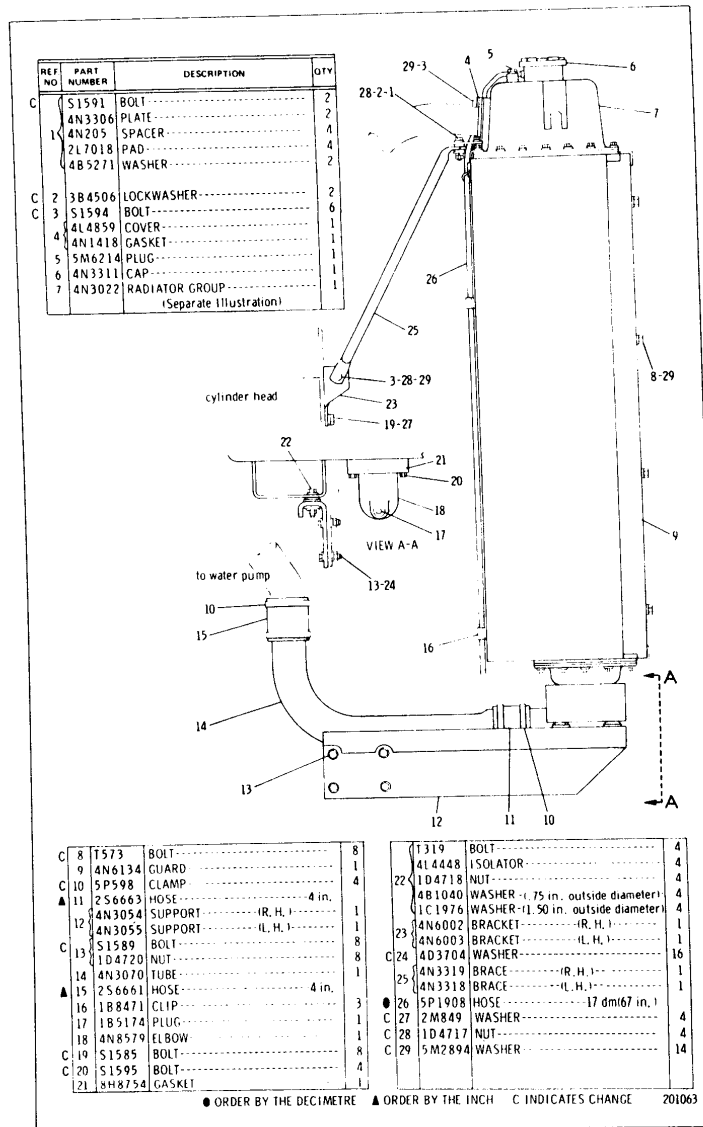
4N2593 Radiator parts are shown on Page 57

Refer to Chart shown on Page 53B. AN ATTACHMENT

1



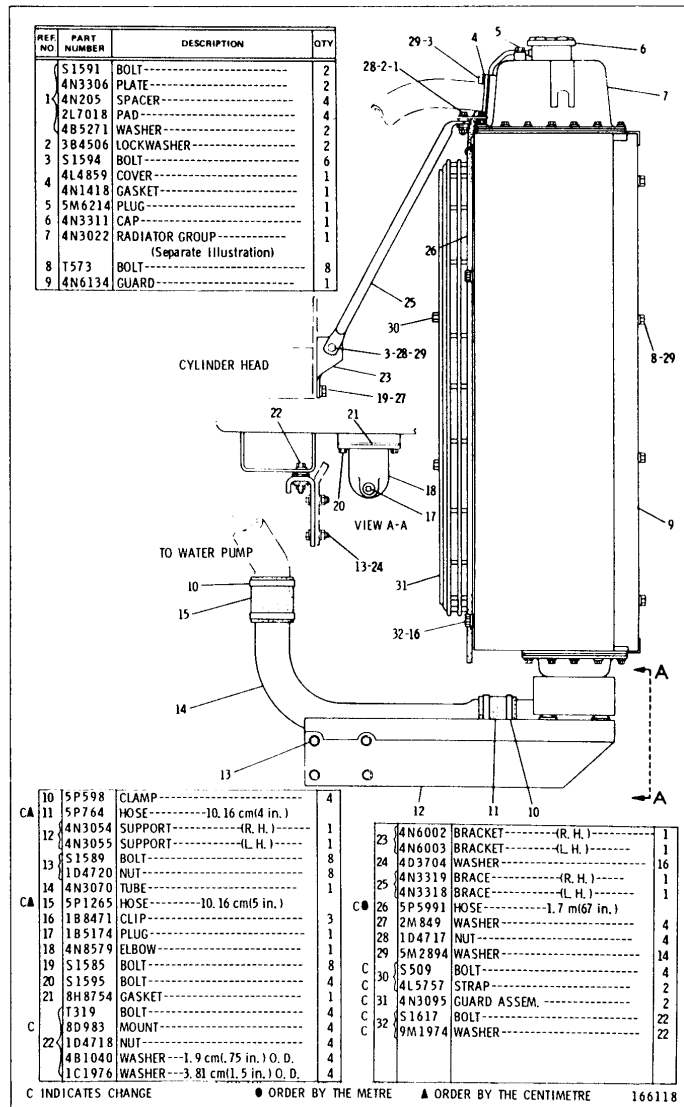
4N2593 RADIATOR GROUP
Part of 4N3015 Radiator Group shown on Pages 56 & 56A



4N3016 RADIATOR GROUP—14 Square Feet, 6 Row—Type 1

4N3022 Radiator parts are shown on Page 59

Refer to Chart shown on Page 53B. AN ATTACHMENT

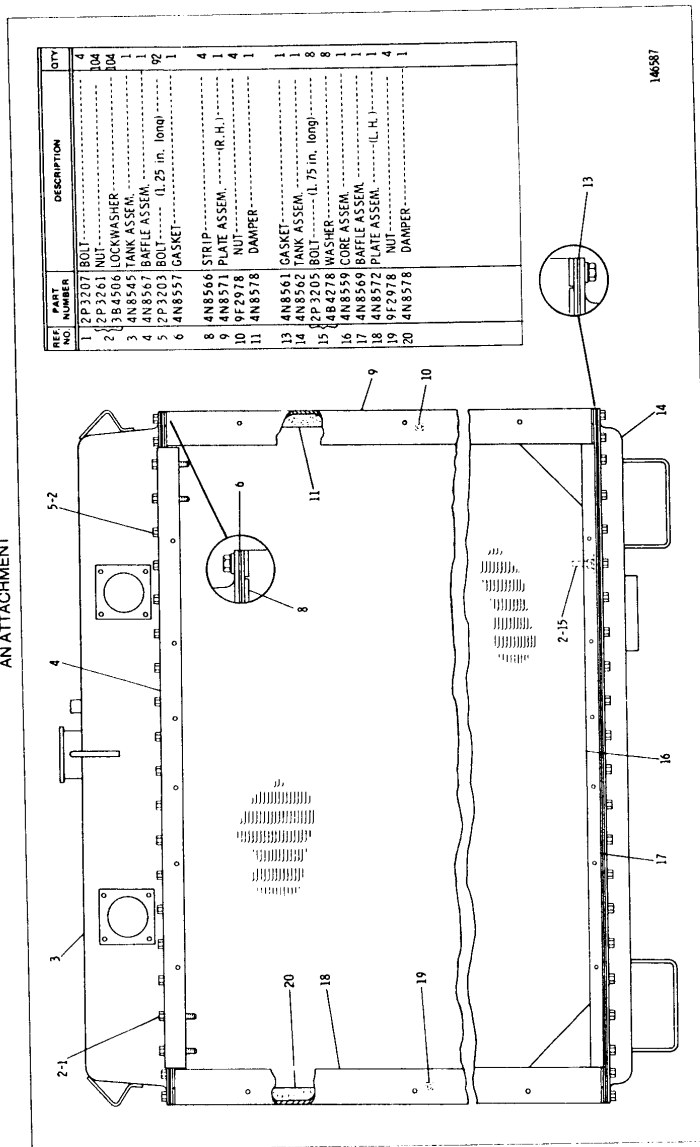


4N3016 RADIATOR GROUP—14 Square Feet, 6 Row—Type 2

4N3022 Radiator parts are shown on Page 59

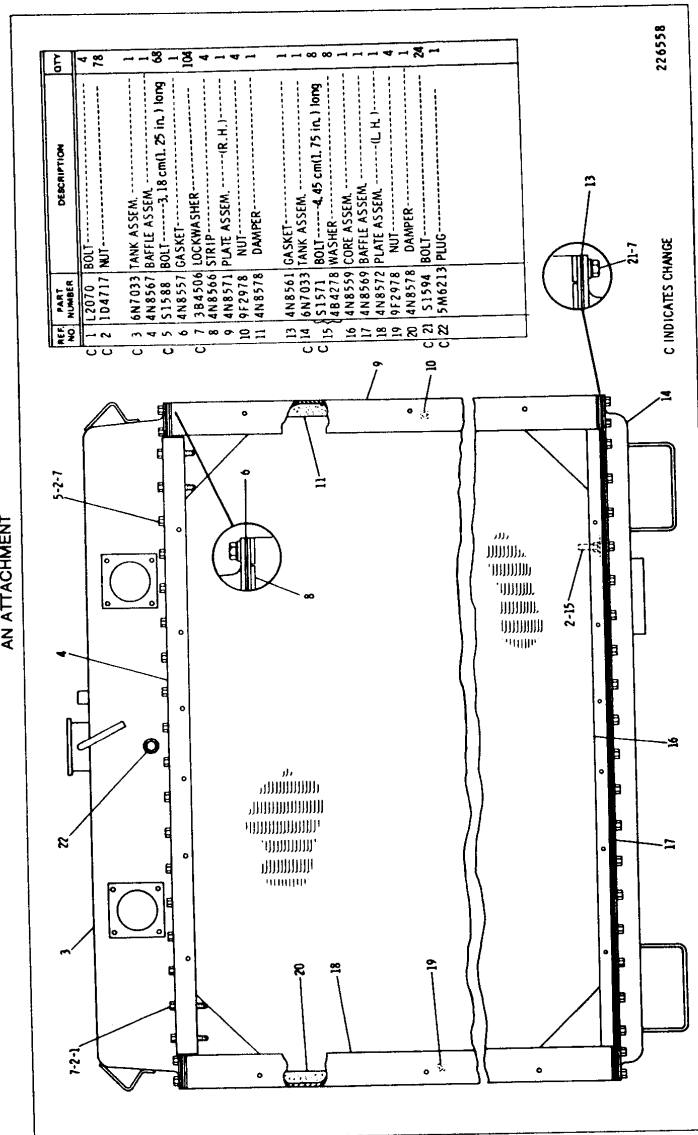
Refer to Chart shown on Page 53B. AN ATTACHMENT

4N3022 RADIATOR GROUP—Type 1
Part of 4N3016 Radiator Group shown on Pages 58 & 58A
AN ATTACHMENT

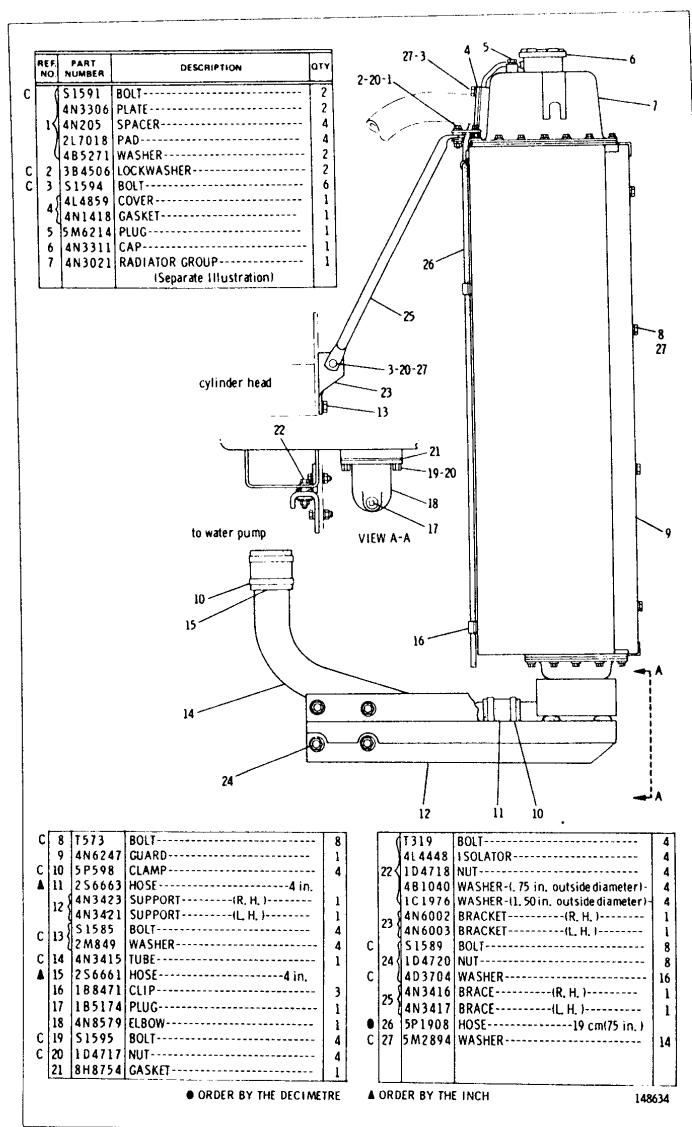


1

4N3022 RADIATOR GROUP—Type 2
Part of 4N3016 Radiator Group shown on Page 58
AN ATTACHMENT

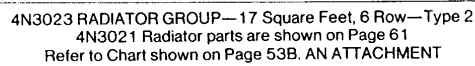


226558

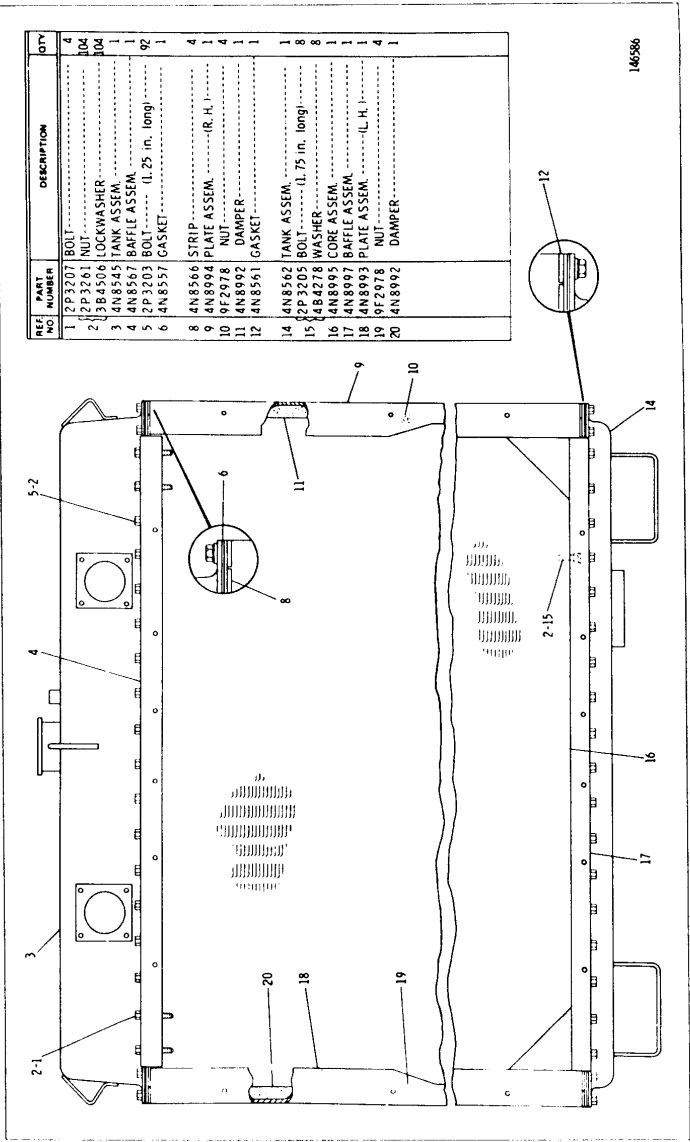


4N3023 RADIATOR GROUP—17 Square Feet, 6 Row—Type 1
 4N3021 Radiator parts are shown on Page 61
 Refer to Chart shown on Page 53B. AN ATTACHMENT

60A

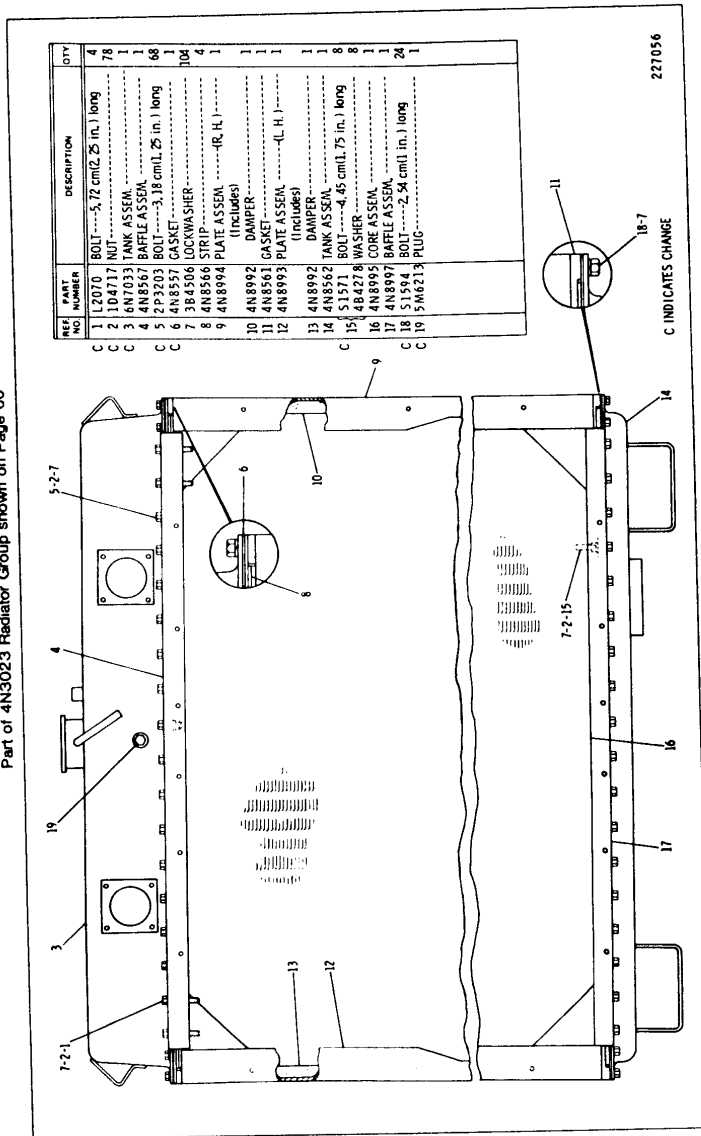


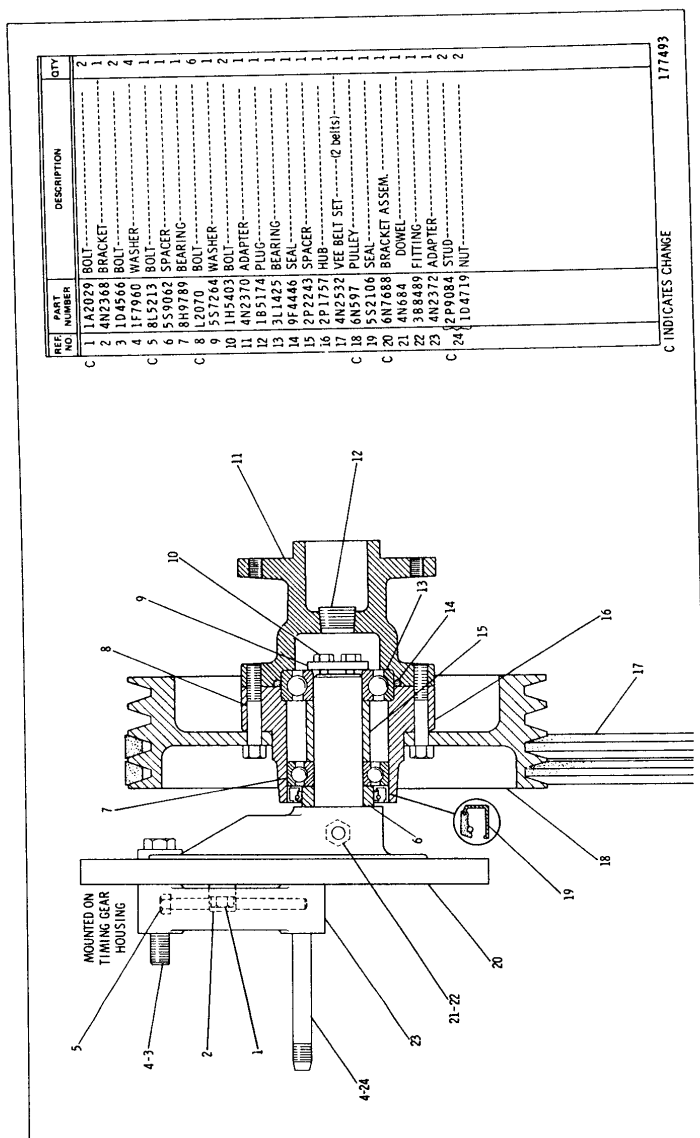
4N3021 RADIATOR GROUP—Type 1
Part of 4N3023 Radiator Group shown on Pages 60 & 60A



146586

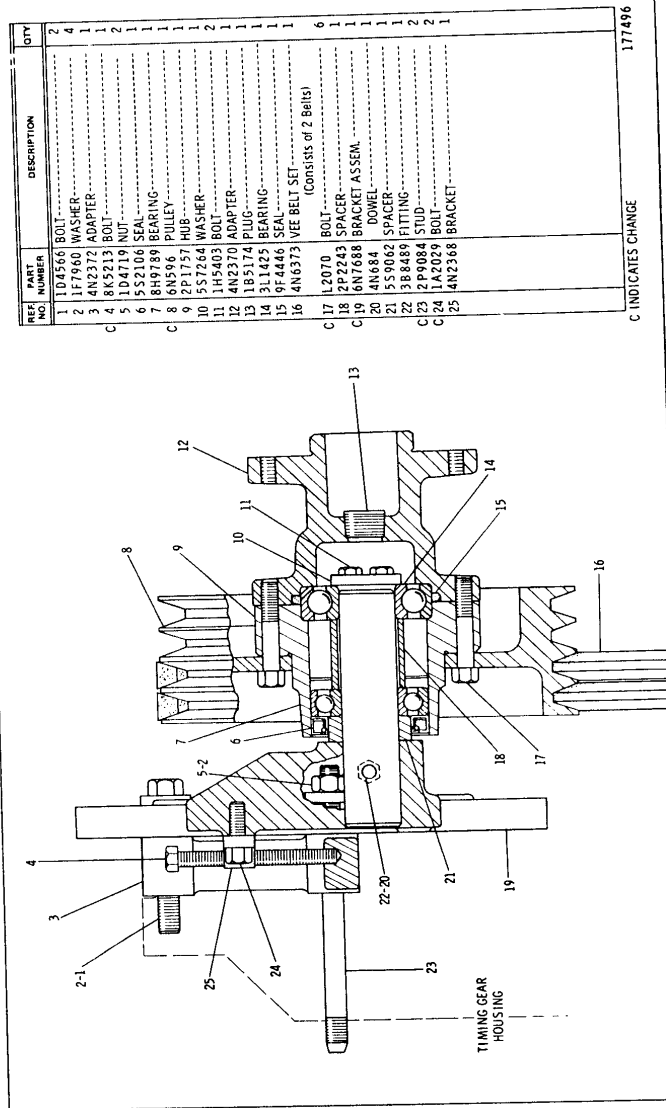
4N3021 RADIATOR GROUP—Type 2
Part of 4N3023 Radiator Group shown on Page 60

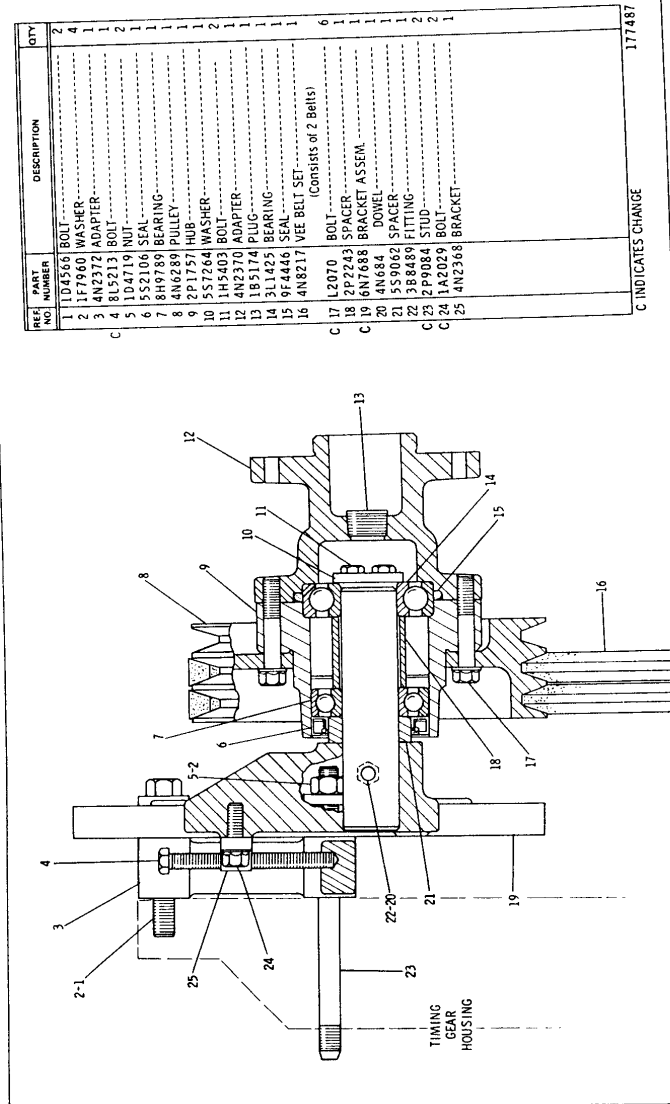




4N3143 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

4N6376 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT





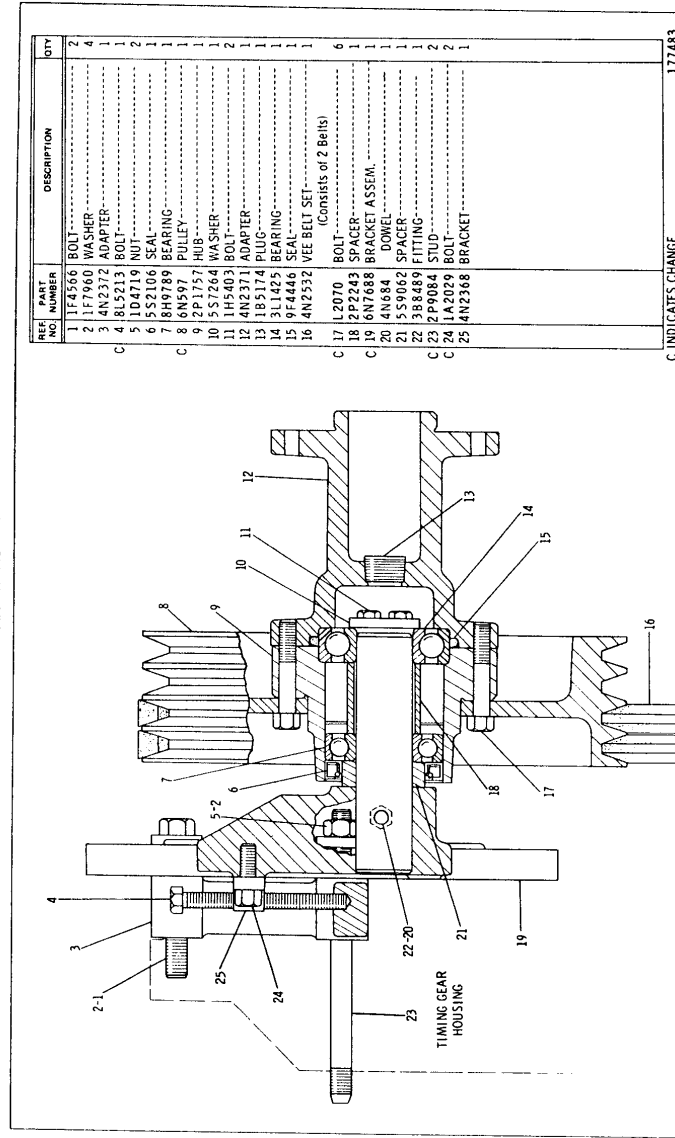
4N6425 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

QTY	DESCRIPTION	PART NUMBER	NO.
2	BOLT	1D4566	1
4	WASHER	1F7960	2
1	ADAPTER	4N2372	3
1	BOLT	4N5213	4
2	NUT	1D4719	5
1	SEAL	5S2106	6
1	BEARING	8H9789	7
1	PULLEY	4N6289	8
1	HUB	2P1751	9
1	WASHER	5S7264	10
2	BOLT	1H5403	11
1	ADAPTER	4N2370	12
1	PLUG	1B5174	13
1	BEARING	3L1425	14
1	SEAL	9F4446	15
1	VEE BELT SET	4N8217	16
(Consists of 2 Belts)			
6	BOLT	L2070	17
1	SPACER	2P2243	18
1	BRACKET ASSEM.	6N7688	19
1	DOWEL	4N684	20
1	SPACER	5S9062	21
2	FITTING	3B8489	22
2	STUD	2P9084	23
1	BOLT	1A2029	24
1	BRACKET	4N2368	25

C INDICATES CHANGE

177487

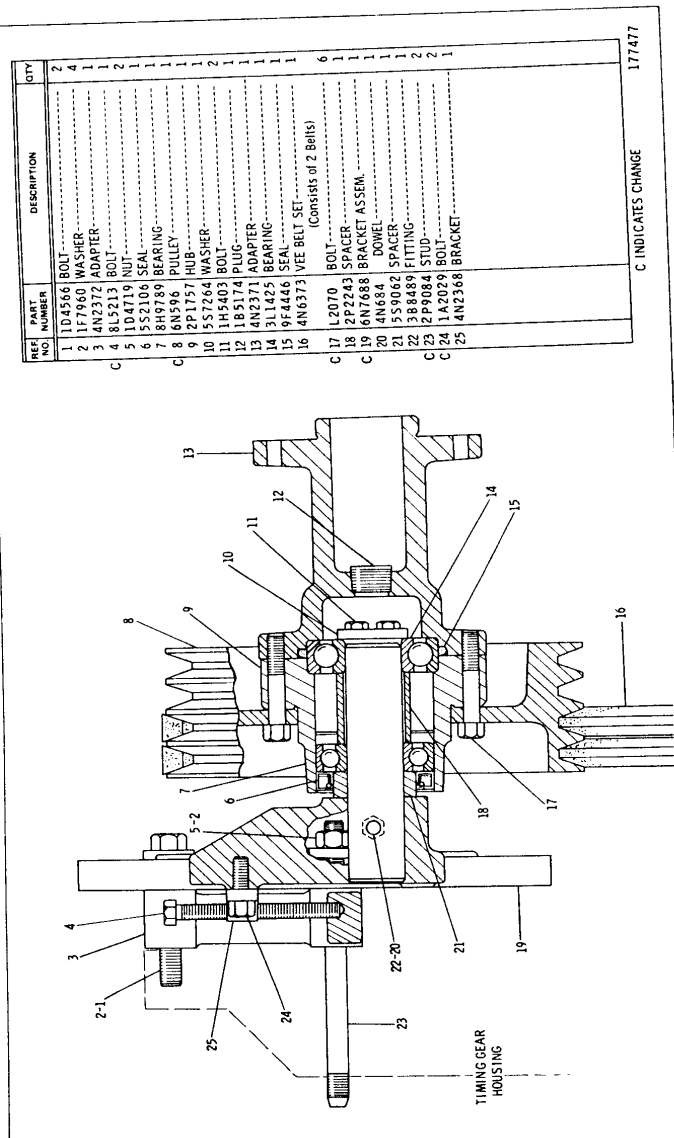
4N2533 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	1F4566	BOLT	2
2	1F7060	WASHER	4
3	4N2372	ADAPTER	1
4	8L5213	BOLT	1
5	1D4719	NUT	2
6	5S2106	SEAL	1
7	8H9789	BEARING	1
8	6N597	PULLEY	1
9	2P1757	HUB	1
10	5S7264	WASHER	1
11	1H5403	BOLT	2
12	4N2371	ADAPTER	1
13	1B5174	PLUG	1
14	3L1425	BEARING	1
15	9F4446	SEAL	1
16	4N2532	VEE BELT SET (Consists of 2 Belts)	1
17	1L2070	BOLT	6
18	2P2243	SPACER	1
19	6N7688	BRACKET ASSEM.	1
20	4N684	DOWEL	1
21	5S9062	SPACER	1
22	3B8489	FITTING	1
23	2P9084	STUD	2
24	1A2029	BOLT	2
25	4N2368	BRACKET	1

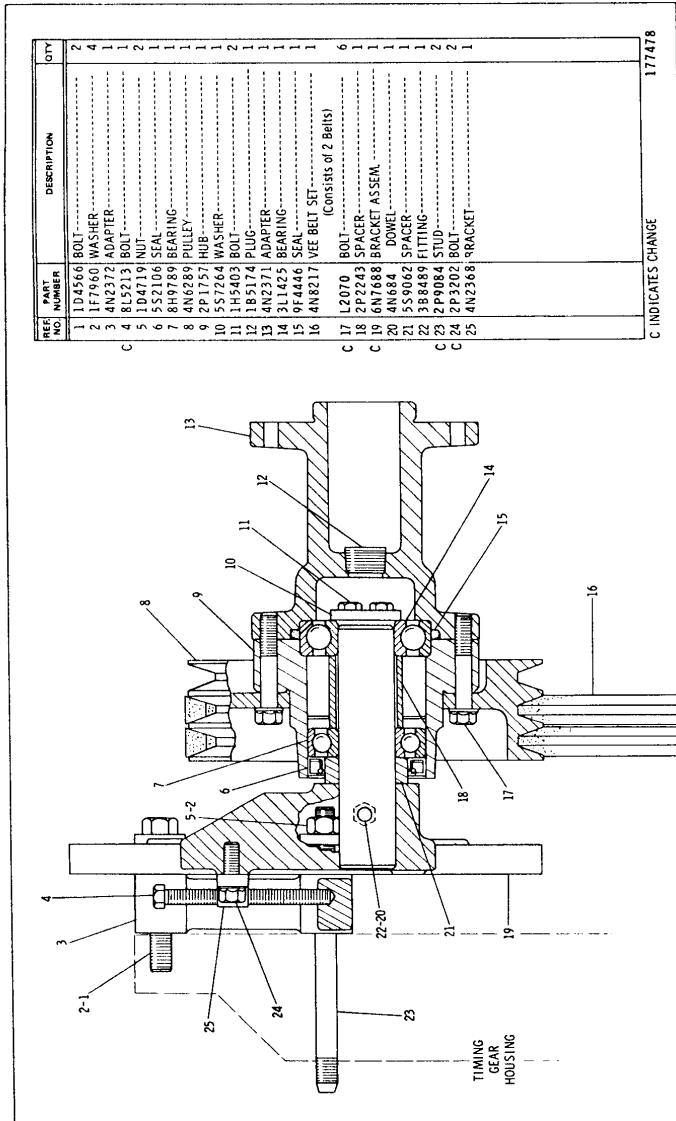
C INDICATES CHANGE

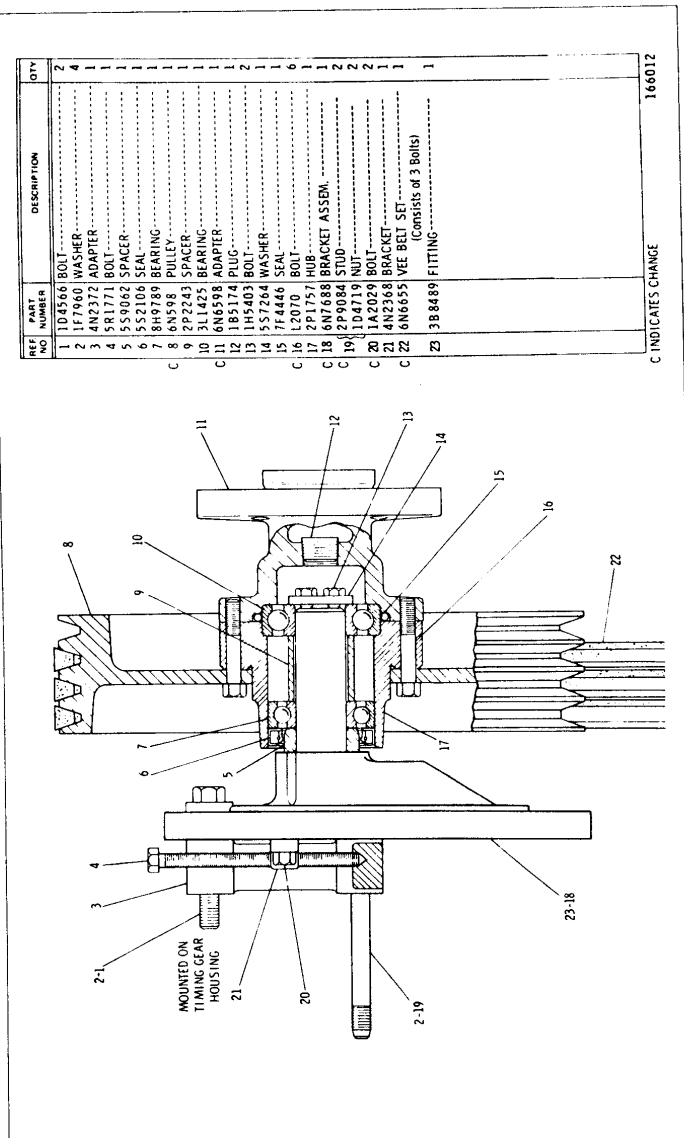
177483



4N6375 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

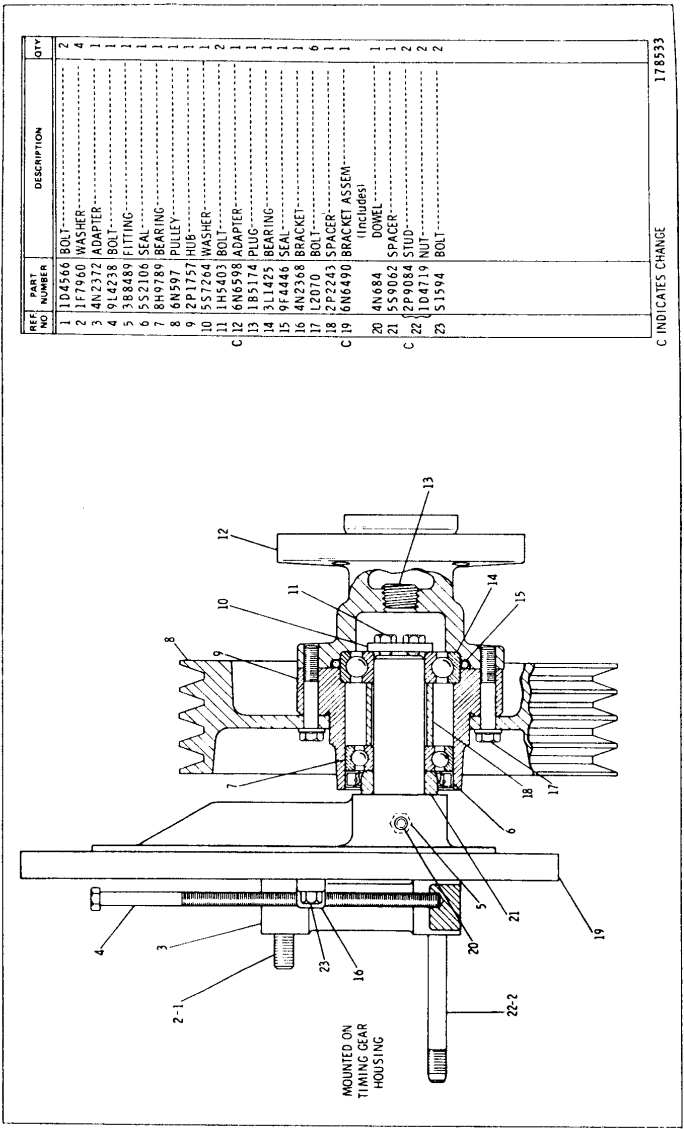
4N6424 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT





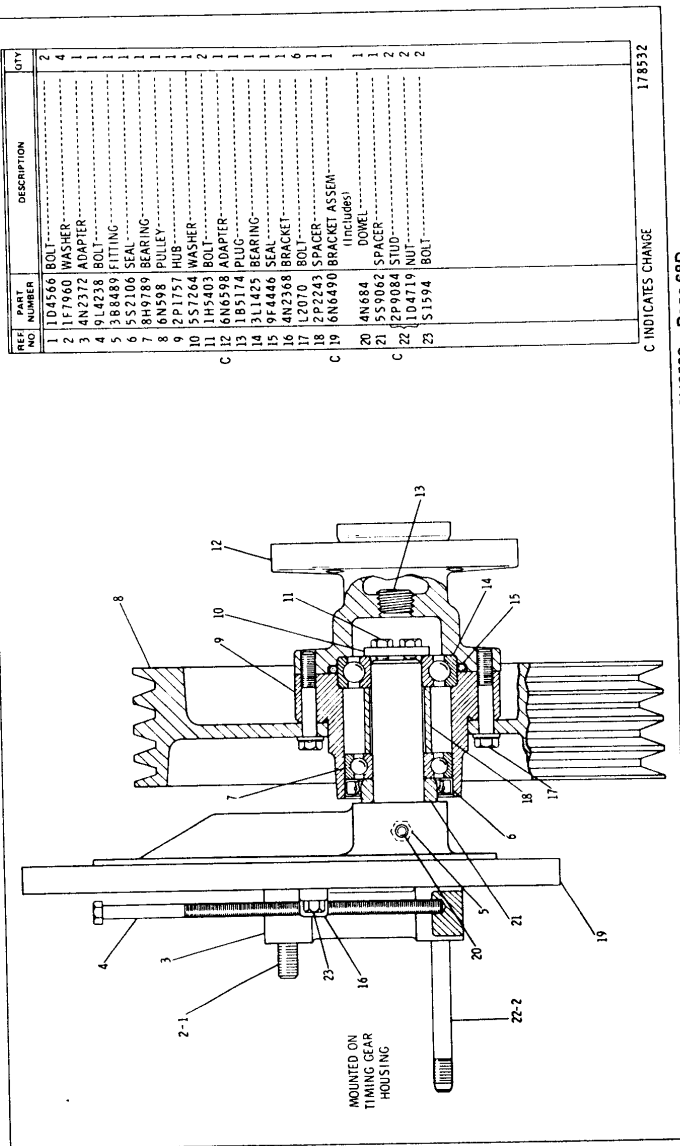
4N3139 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

8N748 FAN DRIVE GROUP—681 Drive Ratio—Replaced by 8N6597—Page 68C
NOTE: ALLOWS A FAN CENTER LOCATION FROM 13.88 TO 24.00 INCHES ABOVE THE CRANK
AN ATTACHMENT



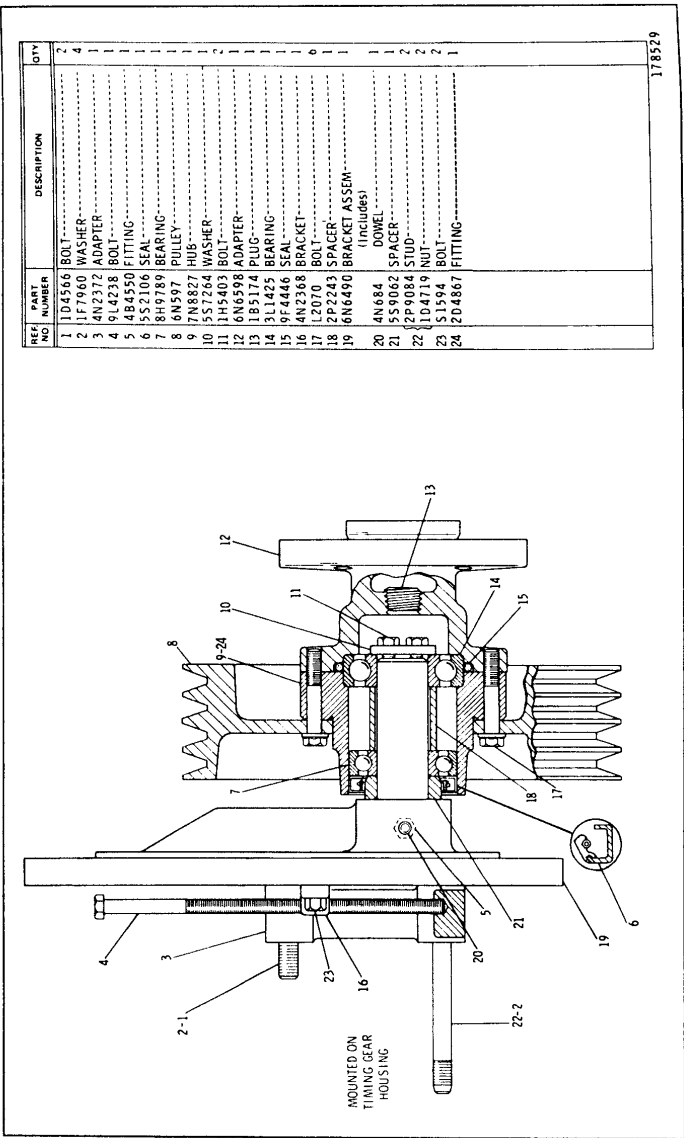
178553

C INDICATES CHANGE

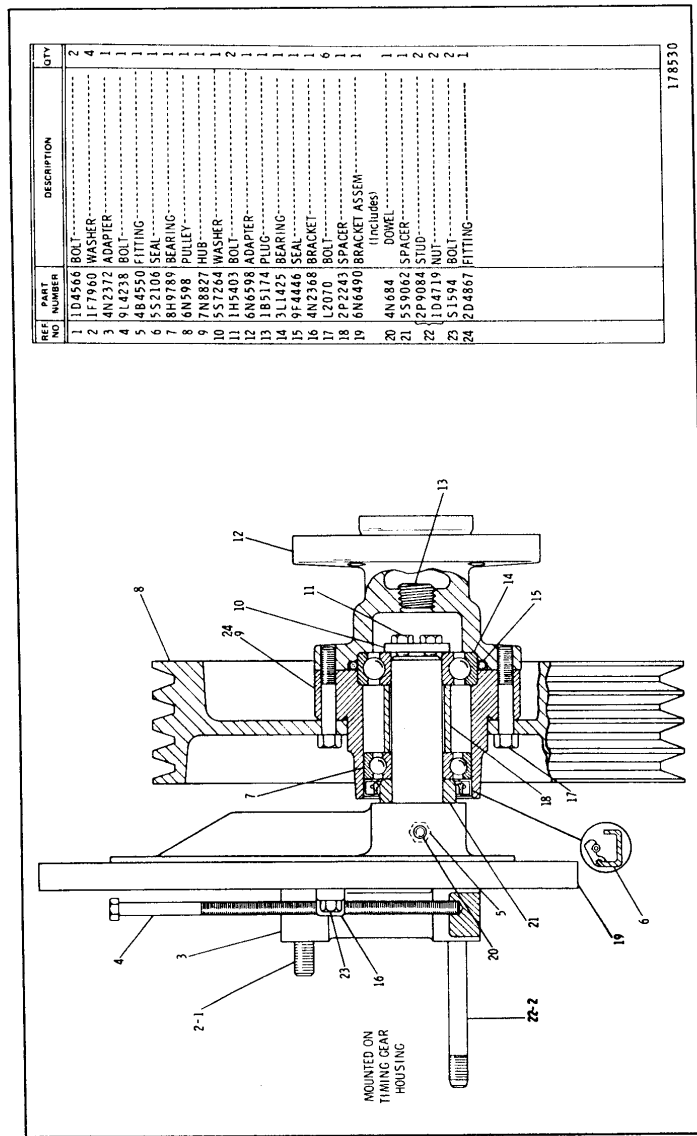


6N747 FAN DRIVE GROUP—571 Drive Ratio—Replaced by 8N6588—Page 68D
 NOTE: ALLOWS A FAN CENTER LOCATION FROM 13.88 TO 24.00 INCHES ABOVE THE CRANK AN ATTACHMENT

8N6587 FAN DRIVE GROUP—681 Drive Ratio
AN ATTACHMENT

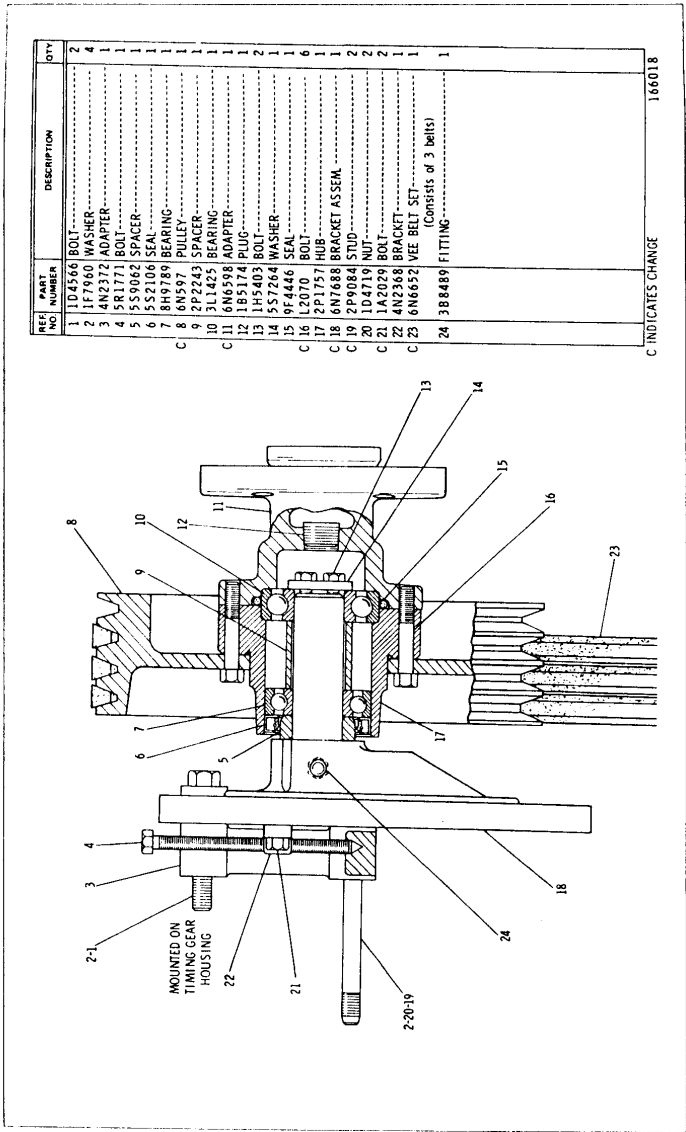


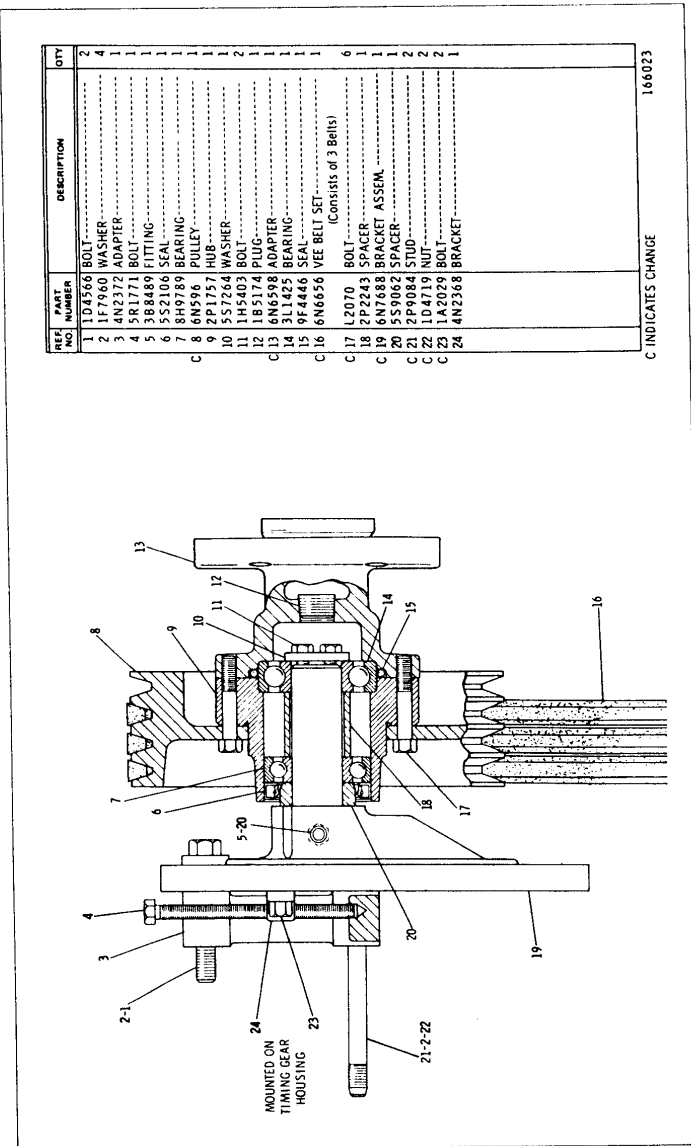
178529



8N6588 FAN DRIVE GROUP—571 Drive Ratio
AN ATTACHMENT

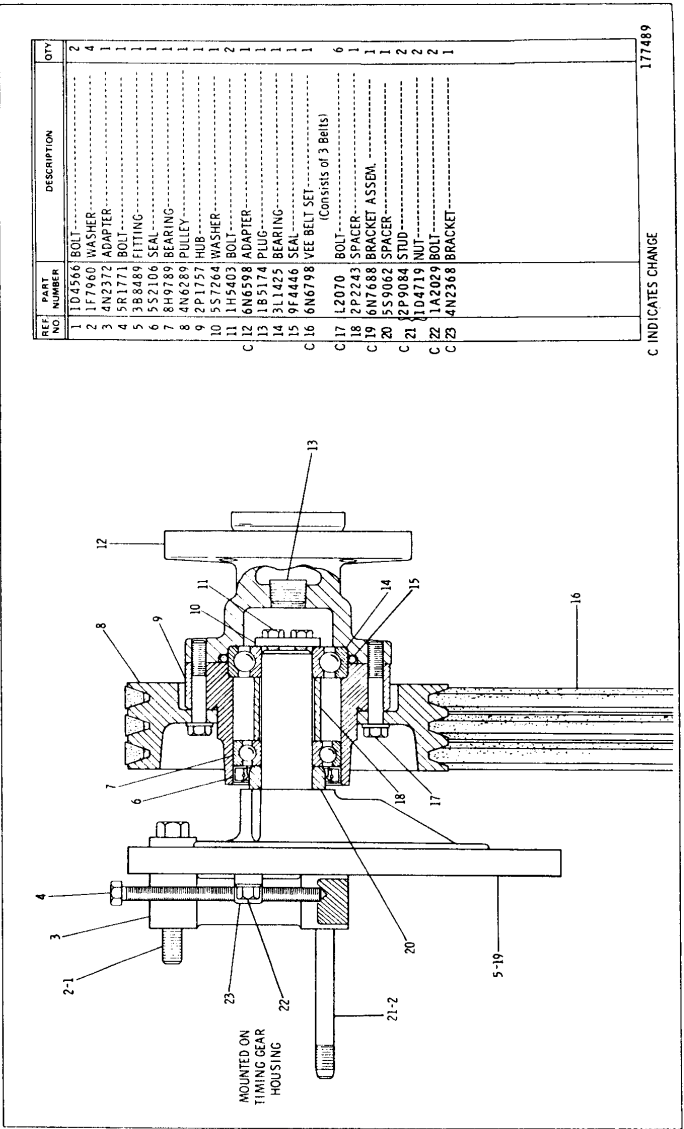
4N6378 FAN DRIVE GROUP
Refer to Chart shown on Page 53B, AN ATTACHMENT

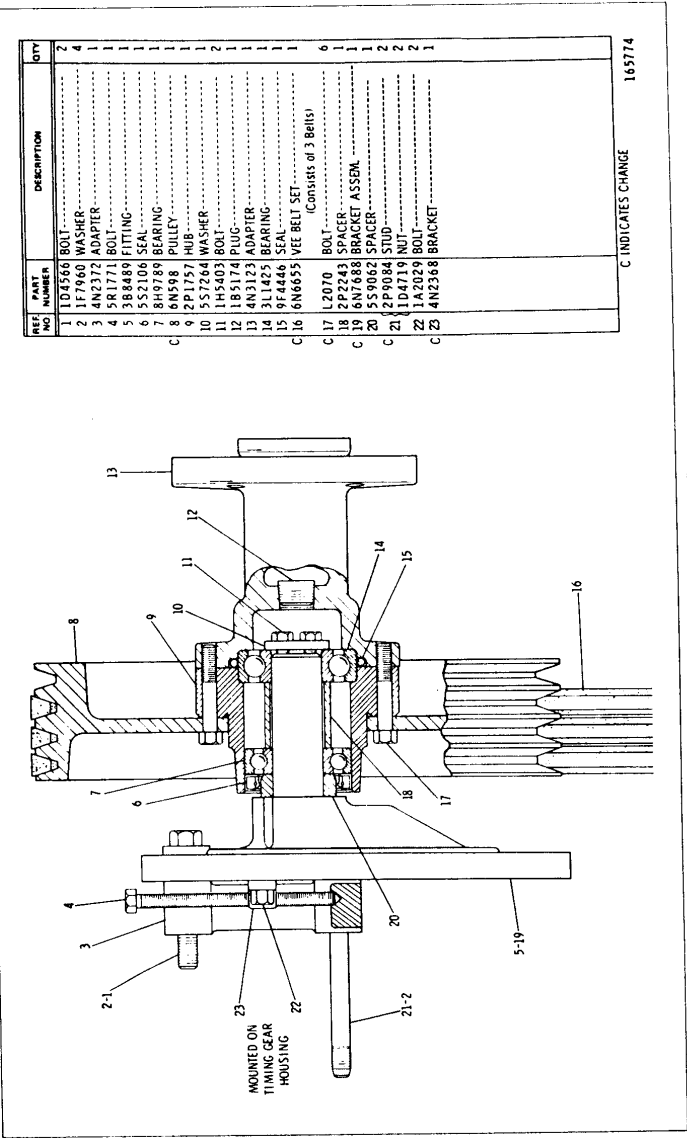




4N6429 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

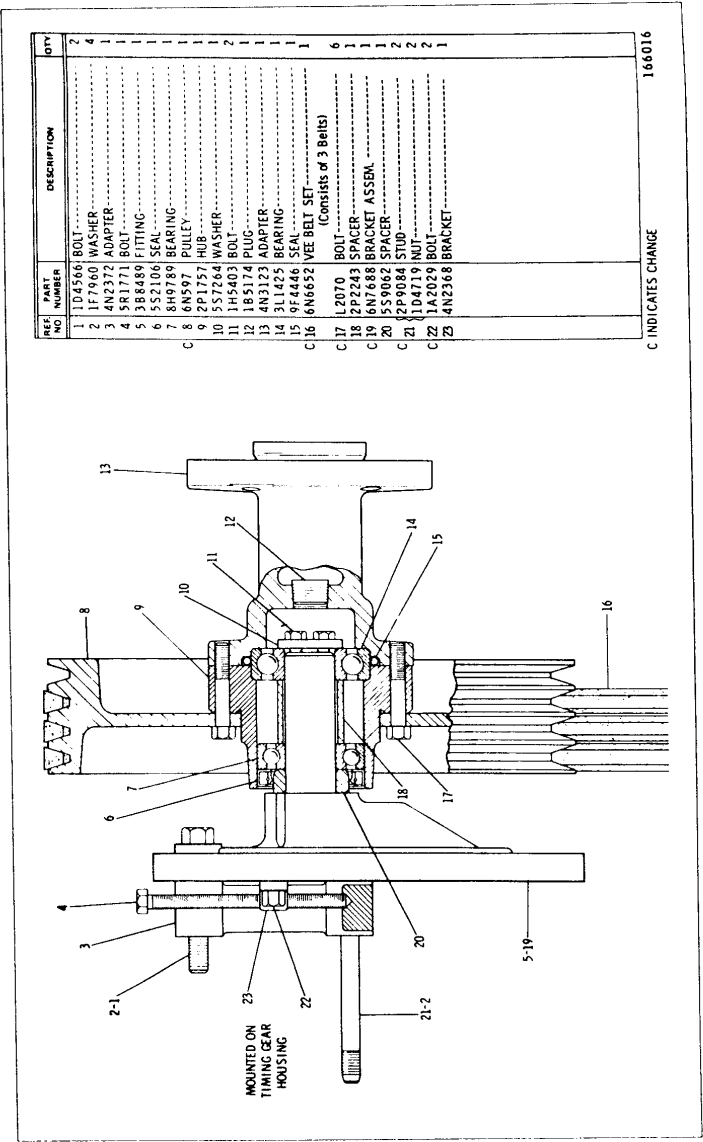
4N6427 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

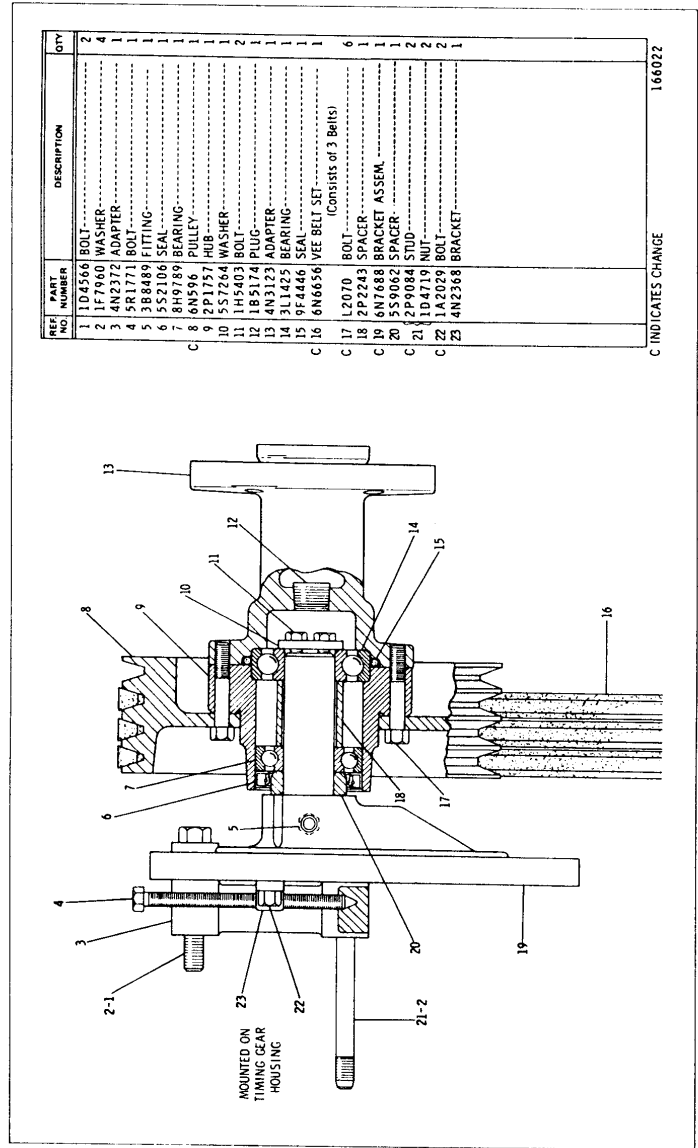




4N3138 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

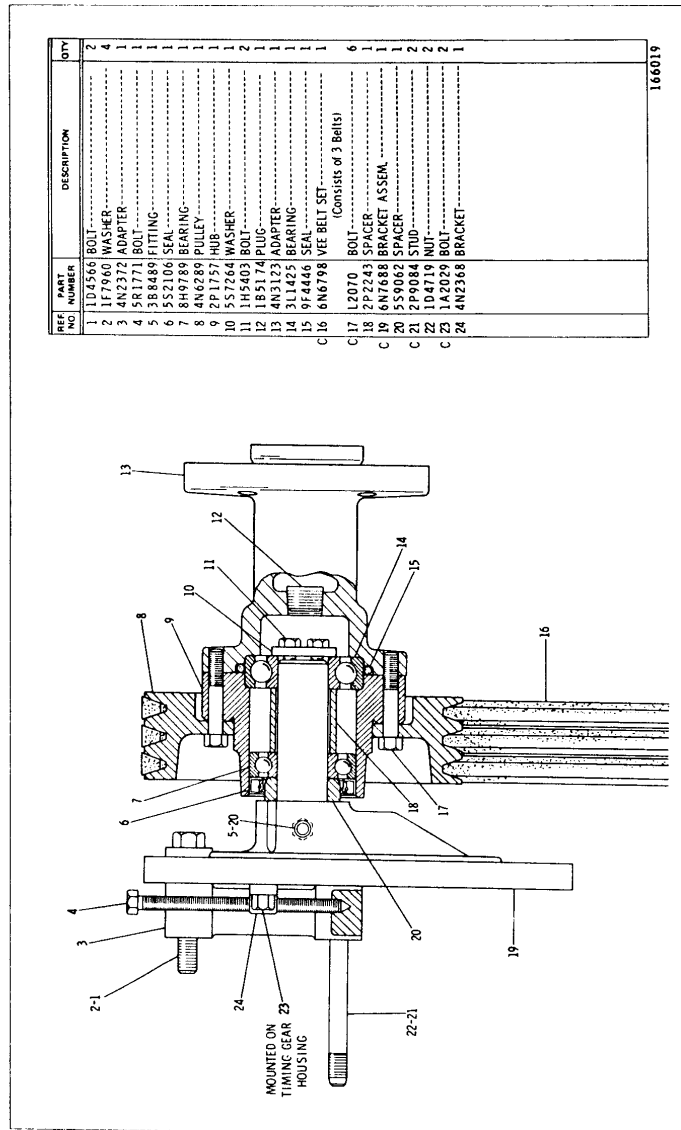
4N6377 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT





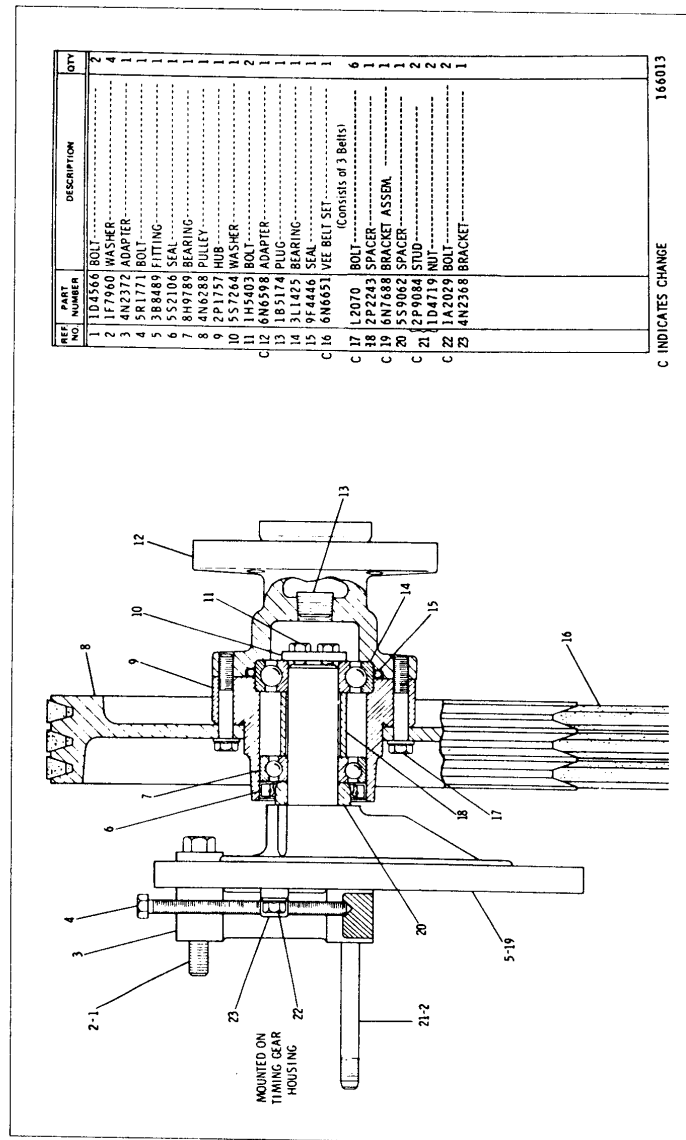
4N6428 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

4N6426 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT



REF NO	PART NUMBER	DESCRIPTION	QTY
1	1D4566	BOLT	2
2	1F7960	WASHER	4
3	4N2372	ADAPTER	1
4	5R1771	BOLT	1
5	3B8489	FITTING	1
6	5S2106	SEAL	1
7	8H9789	BEARING	1
8	4N6289	PULLEY	1
9	2P1757	HUB	1
10	5S7264	WASHER	1
11	1H5403	BOLT	2
12	1B5174	PLUG	1
13	4N3123	ADAPTER	1
14	3L1425	BEARING	1
15	9F4446	SEAL	1
16	6N6798	VEE BELT SET	1
(Consists of 3 Belts)			
17	1D070	BOLT	6
18	2D2743	SPACER	1
19	6N7688	BRACKET ASSEM	1
20	5S9062	SPACER	1
21	2P9084	STUD	2
22	1D4719	NUT	2
23	1A2029	BOLT	2
24	4N2368	BRACKET	1

166019



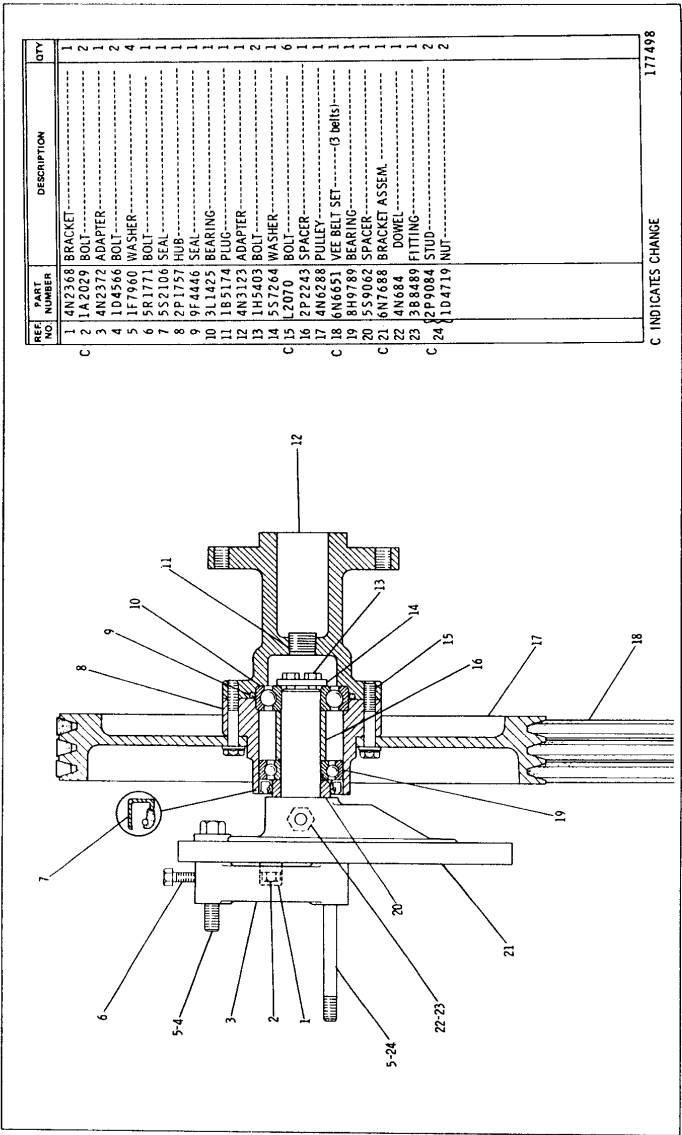
REF NO	PART NUMBER	DESCRIPTION	QTY
1	1D4566	BOLT	2
2	1F7960	WASHER	4
3	4N2372	ADAPTER	1
4	5R1771	BOLT	1
5	388489	FITTING	1
6	552106	SEAL	1
7	8H9789	BEARING	1
8	4N6288	PULLEY	1
9	551157	HUB	1
10	551157	WASHER	1
11	7A5505	BEARING	1
12	6N6598	ADAPTER	2
13	185174	RUG	1
14	311425	BEARING	1
15	9F4446	SEAL	1
16	6N6651	VEE BELT SET	1
		(Consists of 3 Belts)	
17	L2070	BOLT	6
18	2P2243	SPACER	1
19	6N7888	BRACKET ASSEM.	1
20	559062	SPACER	1
21	2P9084	STUD	2
22	1D4719	NUT	2
23	1A2029	BOLT	2
		4N2368 BRACKET	1

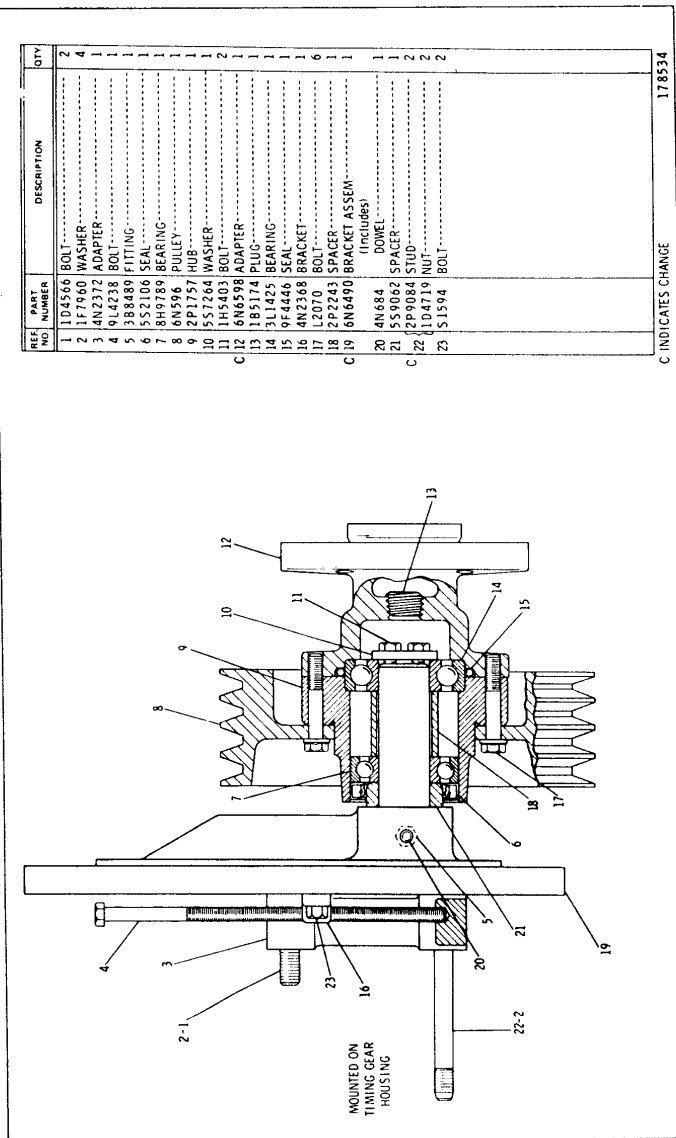
C INDICATES CHANGE

166013

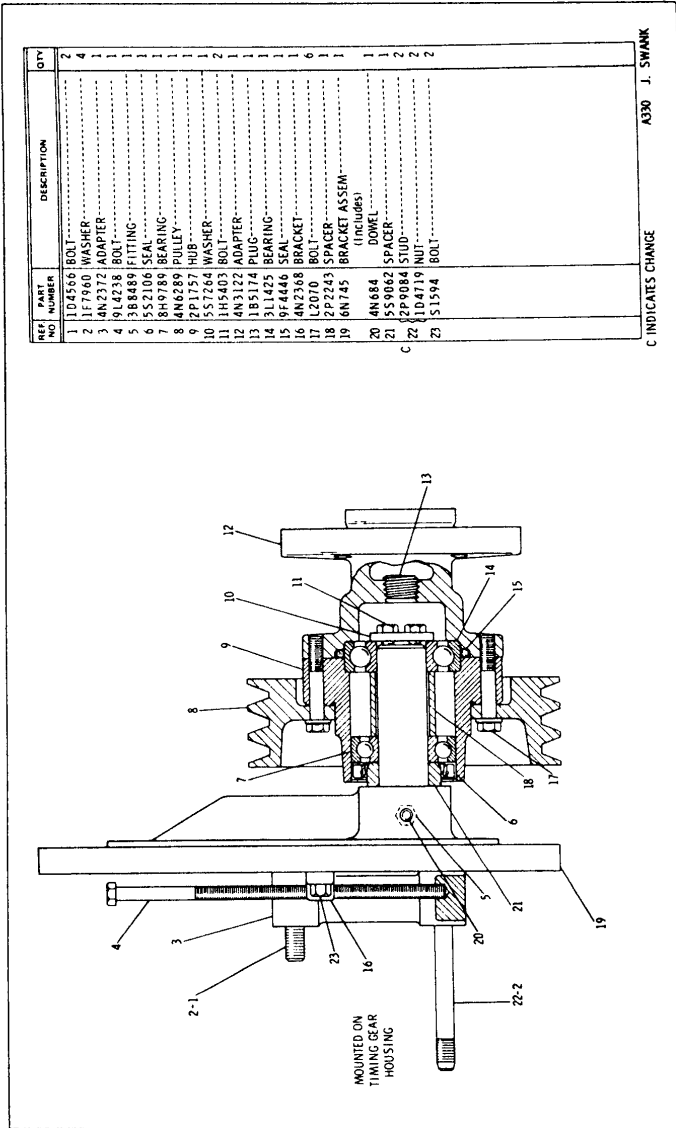
4N4729 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT

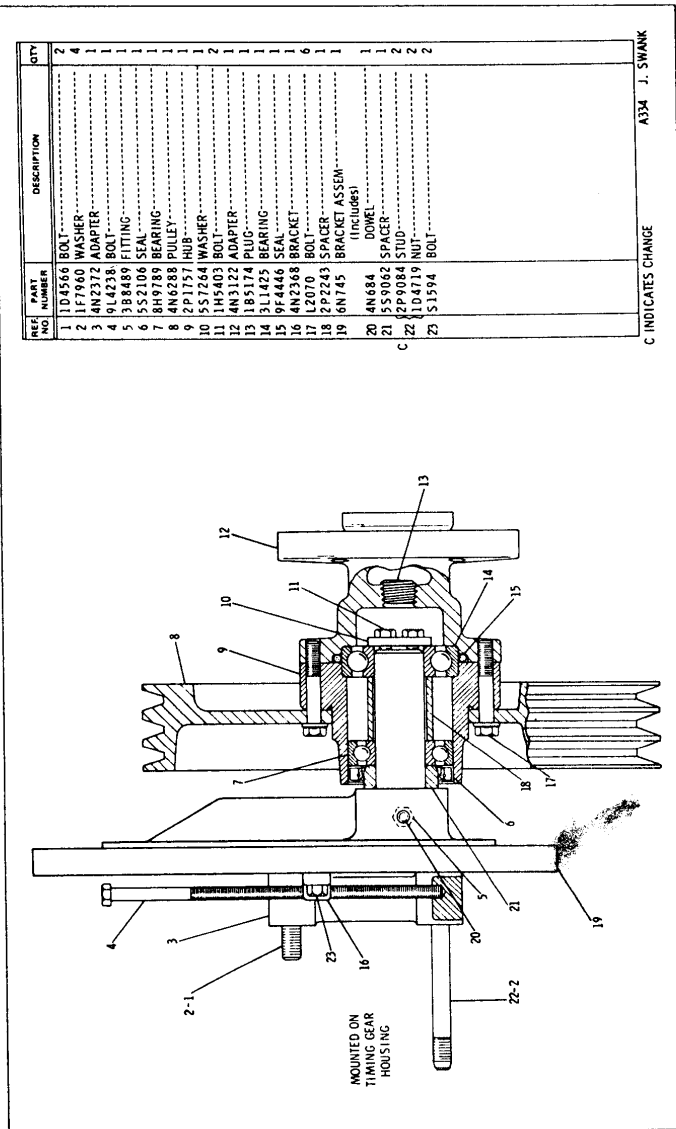
4N4728 FAN DRIVE GROUP
Refer to Chart shown on Page 53B
AN ATTACHMENT





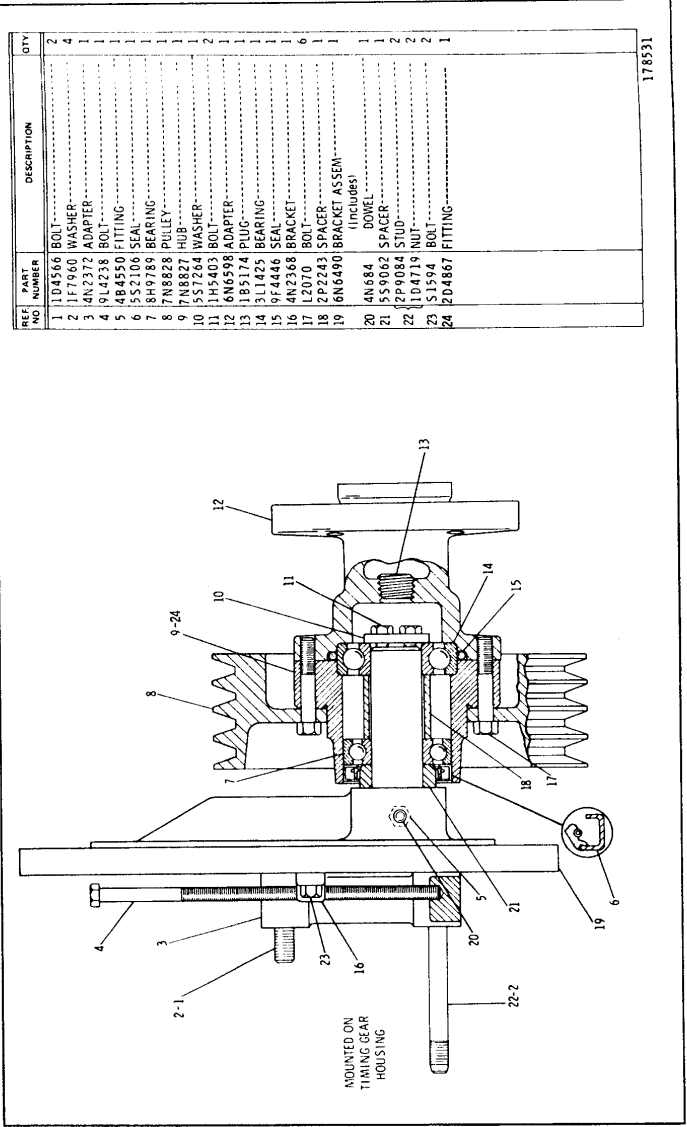
6N750 FAN DRIVE GROUP—941 Drive Ratio—Replaced by 1W1176—Page 77C.02
 NOTE: ALLOWS A FAN CENTER LOCATION FROM 13.88 TO 24.00 INCHES ABOVE THE CRANK
 AN ATTACHMENT





6N746 FAN DRIVE GROUP — 485 Drive Ratio — Replaced by 1W1175 — Page 77C.03
 NOTE: ALLOWS A FAN CENTER LOCATION FROM 13.88 TO 24.00 INCHES ABOVE THE CRANK
 AN ATTACHMENT

8N6589 FAN DRIVE GROUP—800 Drive Ratio
AN ATTACHMENT



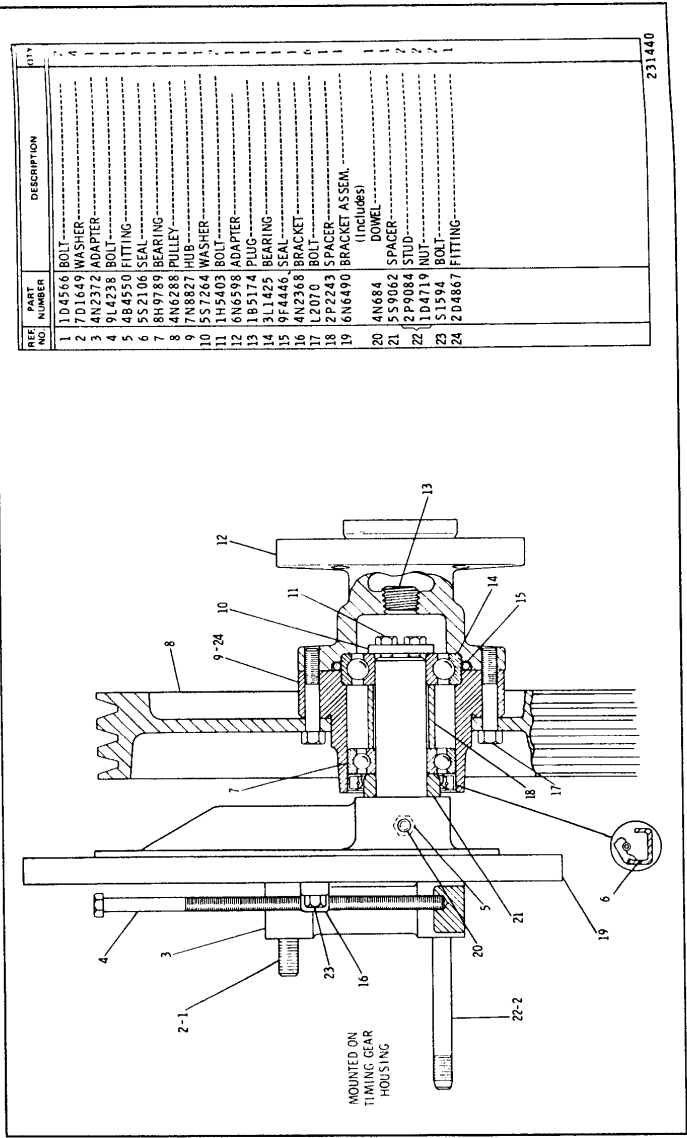
178531

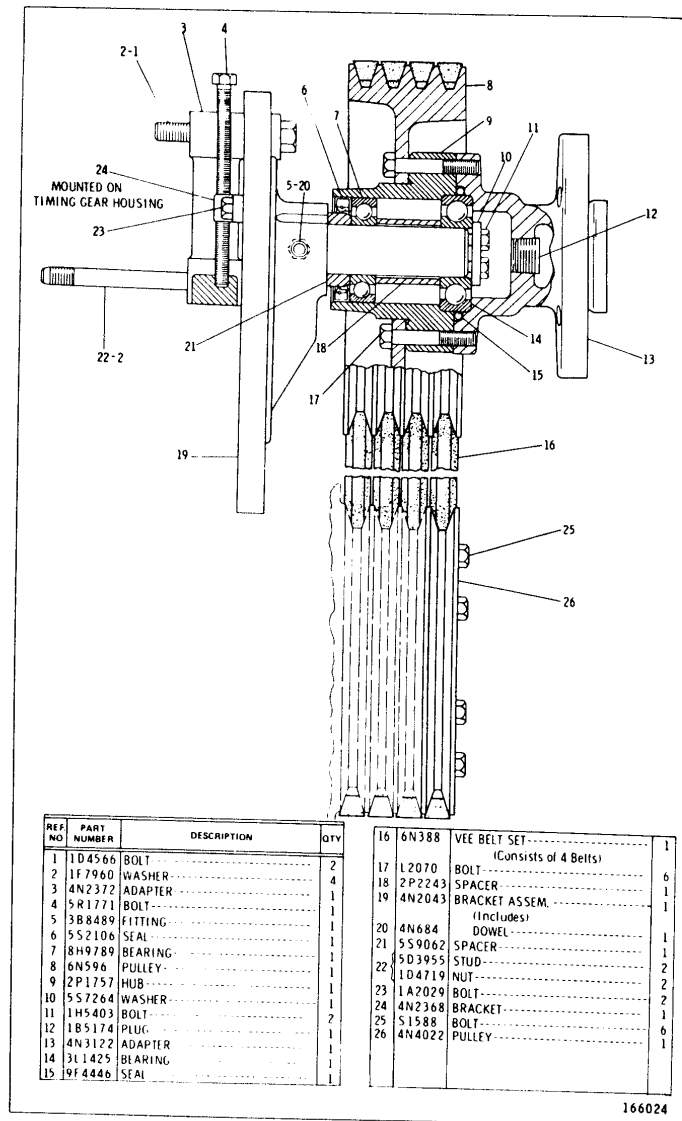


QTY	DESCRIPTION	UNIT	AMOUNT	AMOUNT
		NO	UNIT	NO
1	104566 BOLT-----			
2	104566 WASHER-----			
3	402574 ADAPTER-----			
4	94238 BOLT-----			
5	484550 FITTING-----			
6	552106 SEAL-----			
7	8H9789 BEARING-----			
8	4N6289 PULLEY-----			
9	7N8327 HUB-----			
10	557264 WASHER-----			
11	1H5403 BOLT-----			
12	6N6598 ADAPTER-----			
13	185174 PLUG-----			
14	3L1425 BEARING-----			
15	9F4446 SEAL-----			
16	4N2368 BRACKET-----			
17	12070 BOLT-----			
18	2P2243 SPACER-----			
19	6N6490 BRACKET ASSEM-----			
20	4N484 (includes)			
21	5S9062 SPACER-----			
22	2P9084 STUD-----			
23	1D4719 NUT-----			
24	51594 BOLT-----			
25	2D4867 FITTING-----			

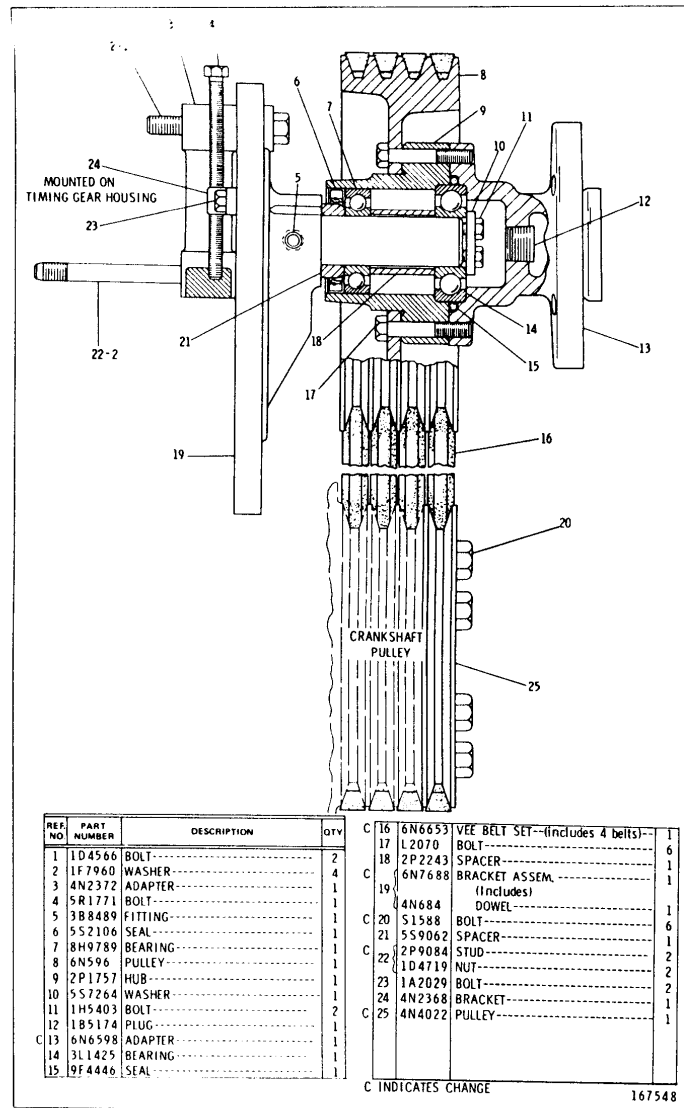
1W1176 FAN DRIVE GROUP—.941 Drive Ratio
AN ATTACHMENT

1W1175 FAN DRIVE GROUP— 485 Drive Ratio
AN ATTACHMENT

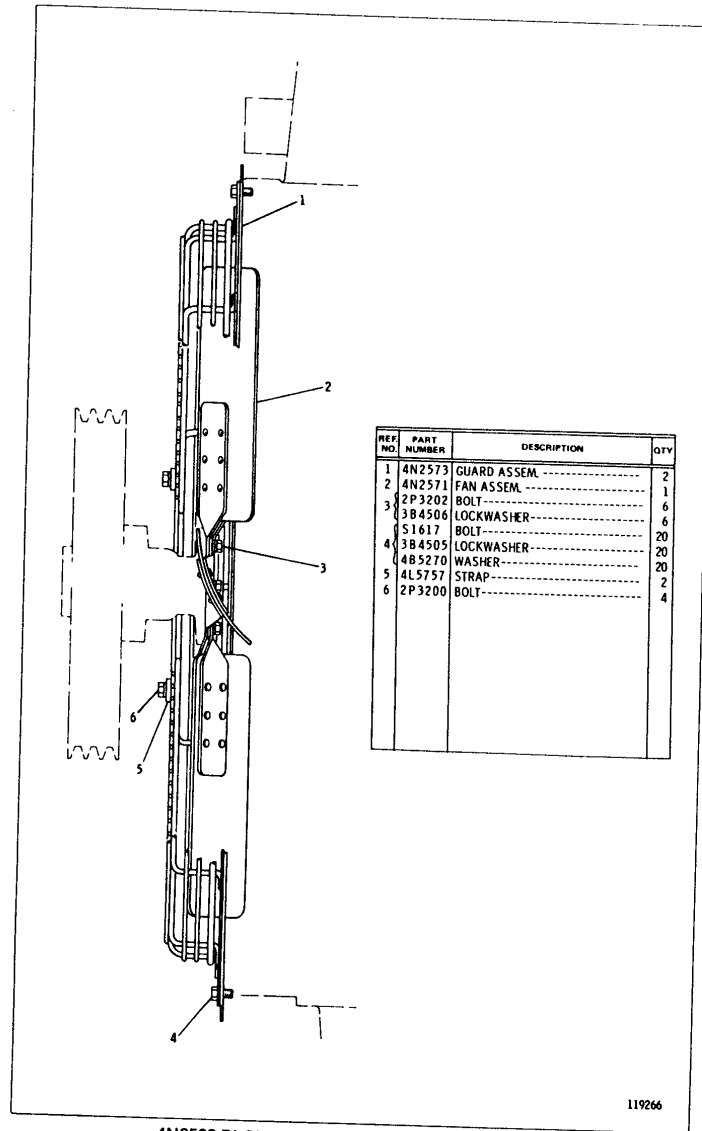




6N329 FAN DRIVE GROUP—46 Inch—Type 1
Refer to Chart shown on Page 53B
AN ATTACHMENT

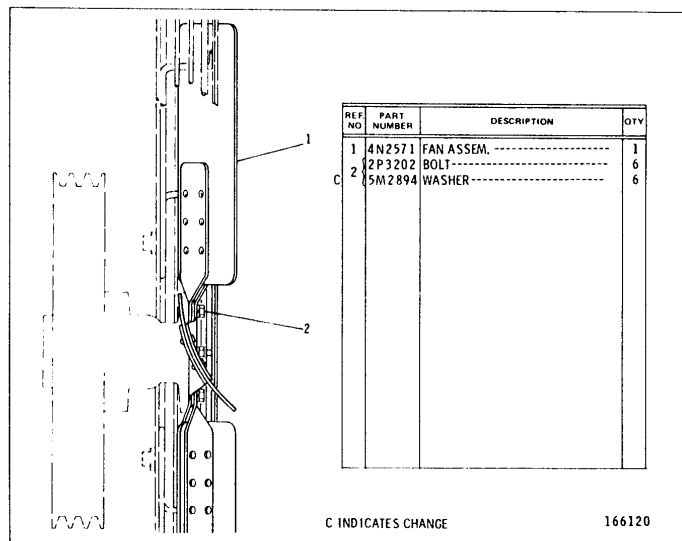


6N329 BLOWER FAN DRIVE GROUP—46 Inch—Type 2
Refer to Chart shown on Page 53B
AN ATTACHMENT

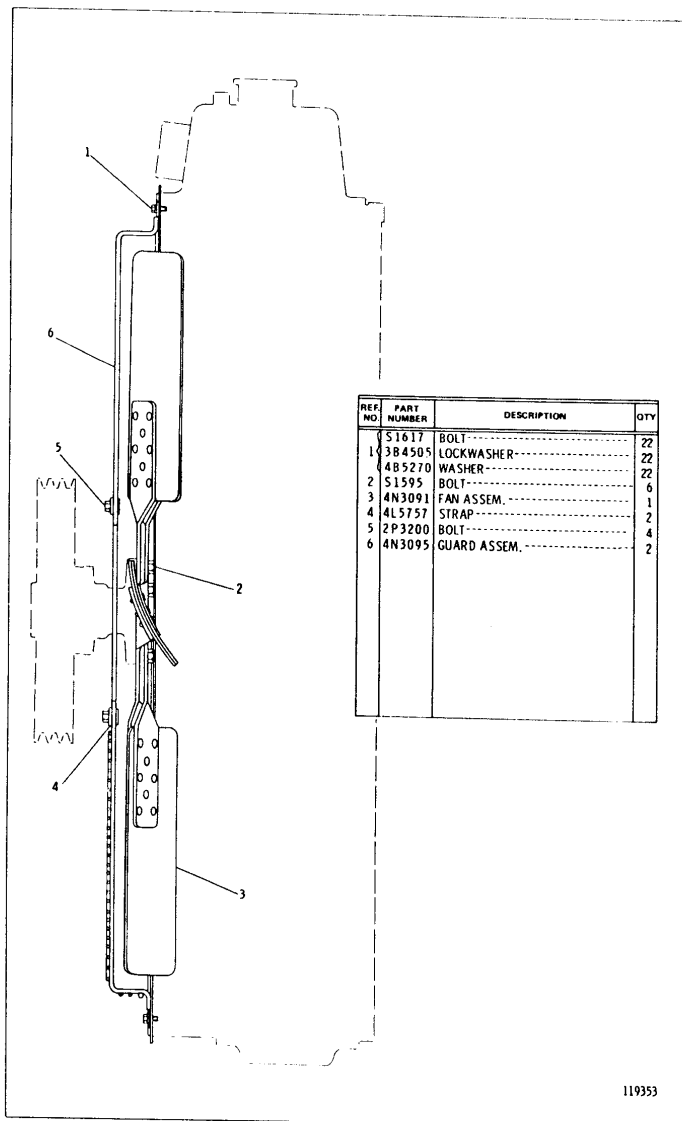


119266

4N2569 BLOWER FAN GROUP—33 Inch—Type 1
Refer to Chart shown on Page 53B. AN ATTACHMENT

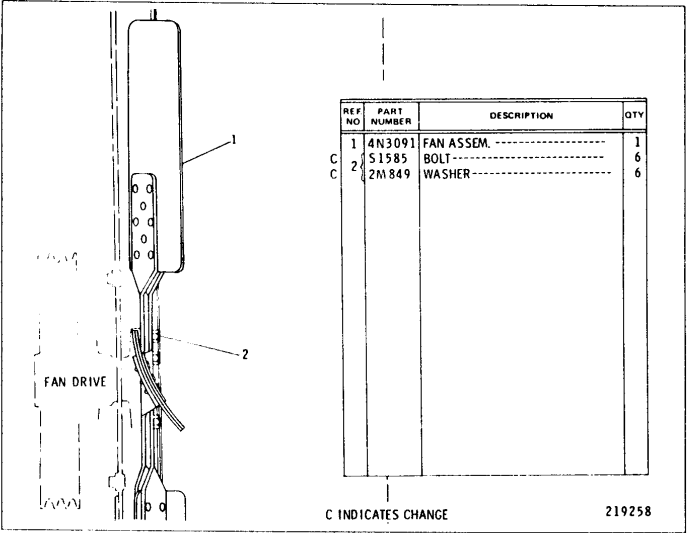


4N2569 BLOWER FAN GROUP—33 Inch—Type 2
Refer to Chart shown on Page 53B
AN ATTACHMENT

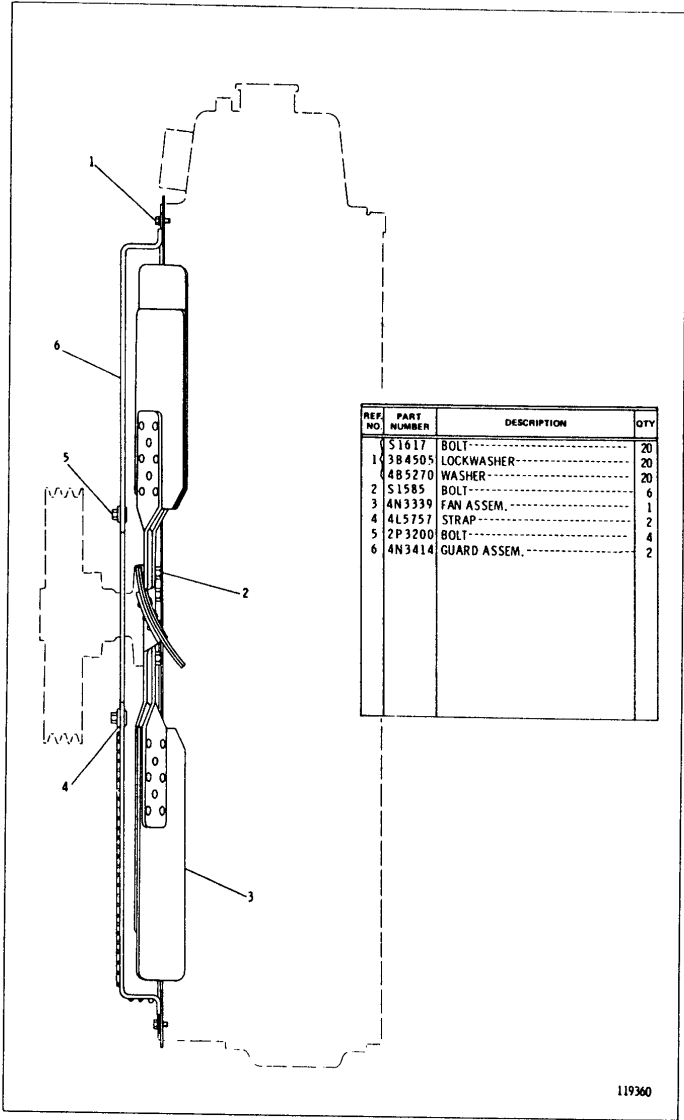


119353

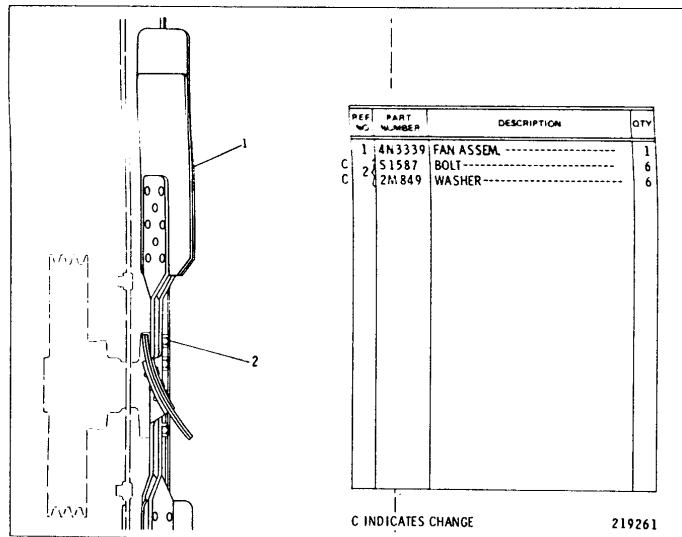
4N3093 BLOWER FAN GROUP—40 Inch—Type 1
 Refer to Chart shown on Page 53B
 AN ATTACHMENT



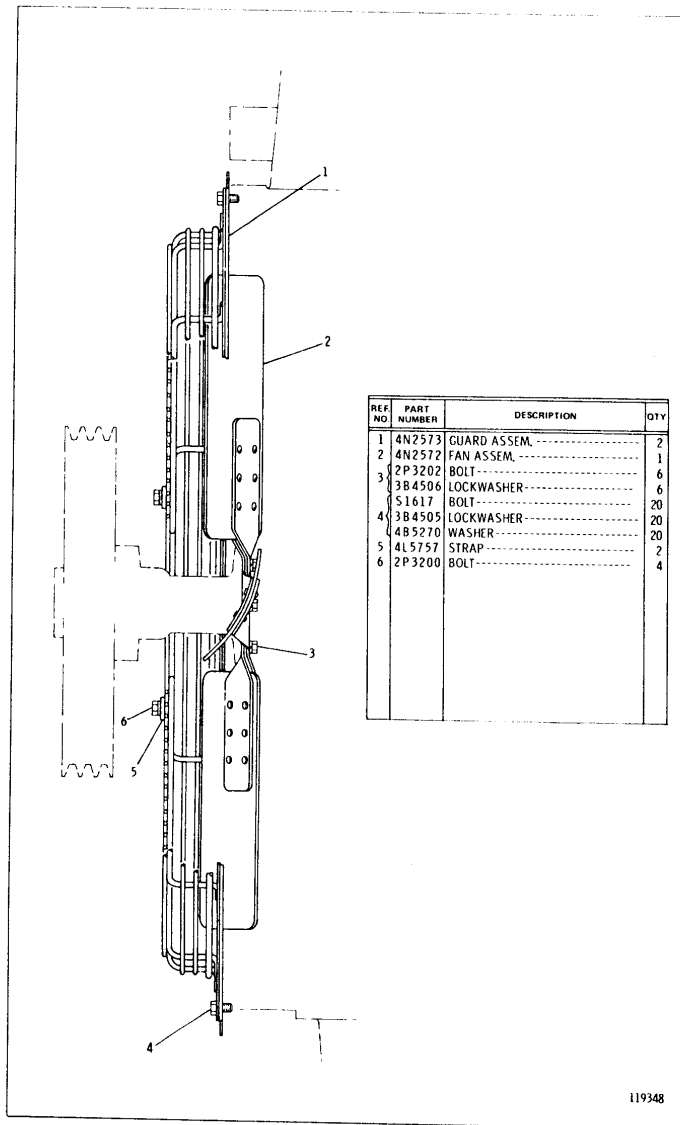
4N3093 BLOWER FAN GROUP—40 Inch—Type 2
Refer to Chart shown on Page 53B. AN ATTACHMENT



4N3465 BLOWER FAN GROUP—46 Inch—Type 1
Refer to Chart shown on Page 53B. AN ATTACHMENT

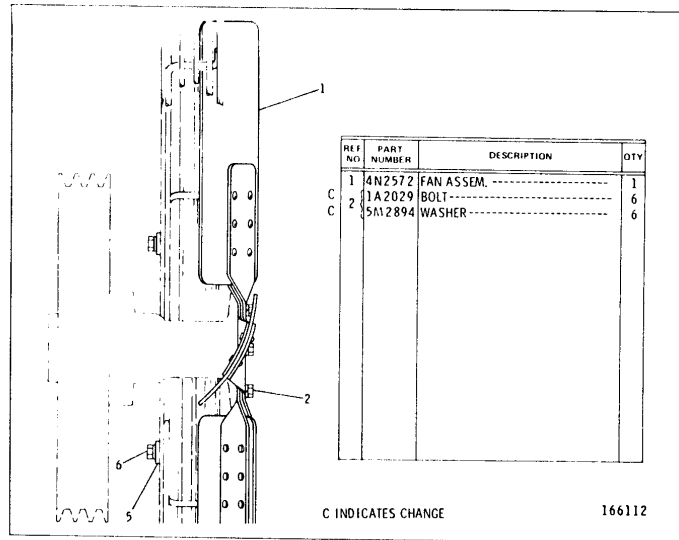


4N3465 BLOWER FAN GROUP—46 Inch—Type 2
Refer to Chart shown on Page 53B. AN ATTACHMENT

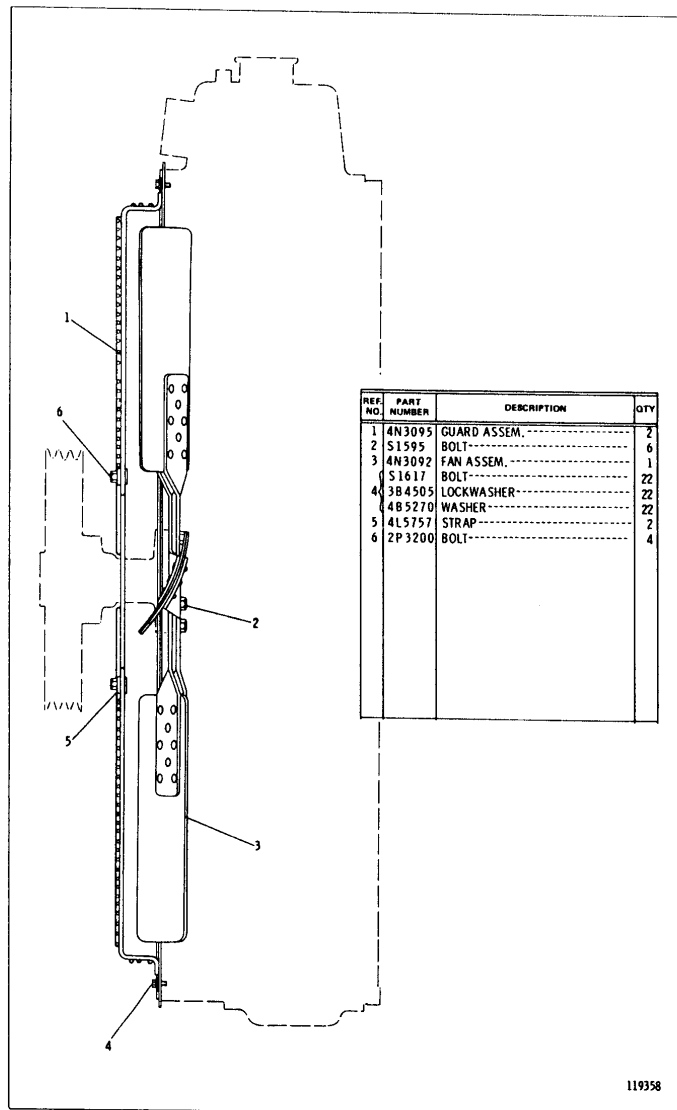


119348

4N2570 SUCTION FAN GROUP—33 inch—Type 1
Refer to Chart shown on Page 53B
AN ATTACHMENT

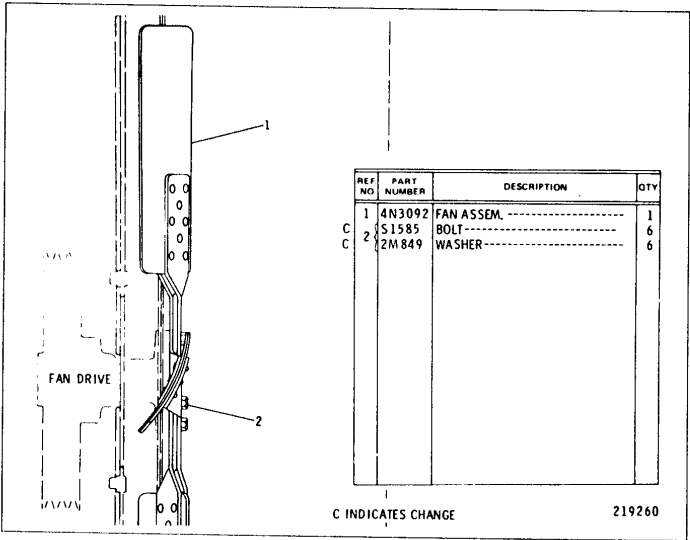


4N2570 SUCTION FAN GROUP—33 Inch—Type 2
 Refer to Chart shown on Page 53B
 AN ATTACHMENT

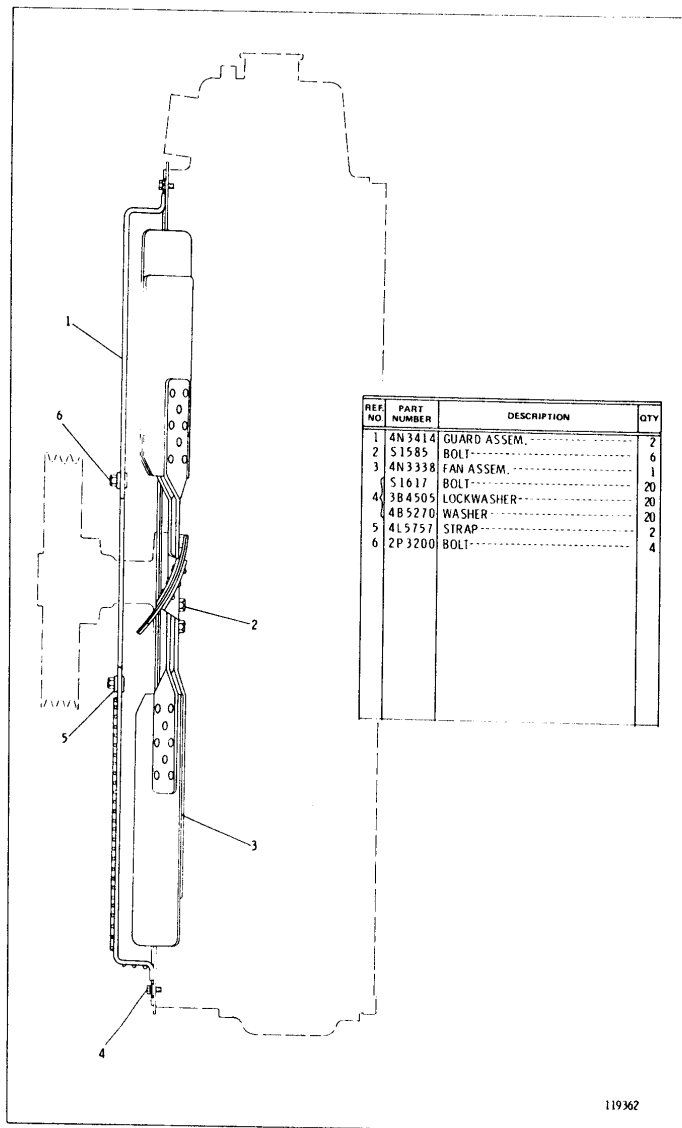


119358

4N3094 SUCTION FAN GROUP—40 Inch—Type 1
Refer to Chart shown on Page 53B. AN ATTACHMENT

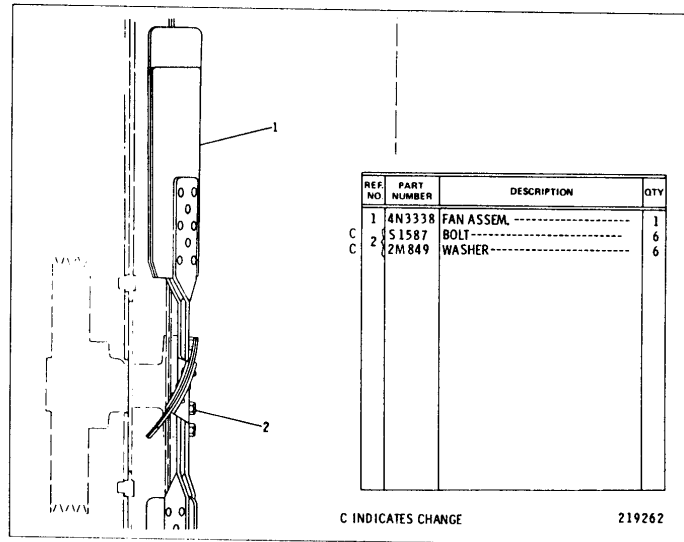


4N3094 SUCTION FAN GROUP—40 Inch—Type 2
Refer to Chart shown on Page 53B. AN ATTACHMENT

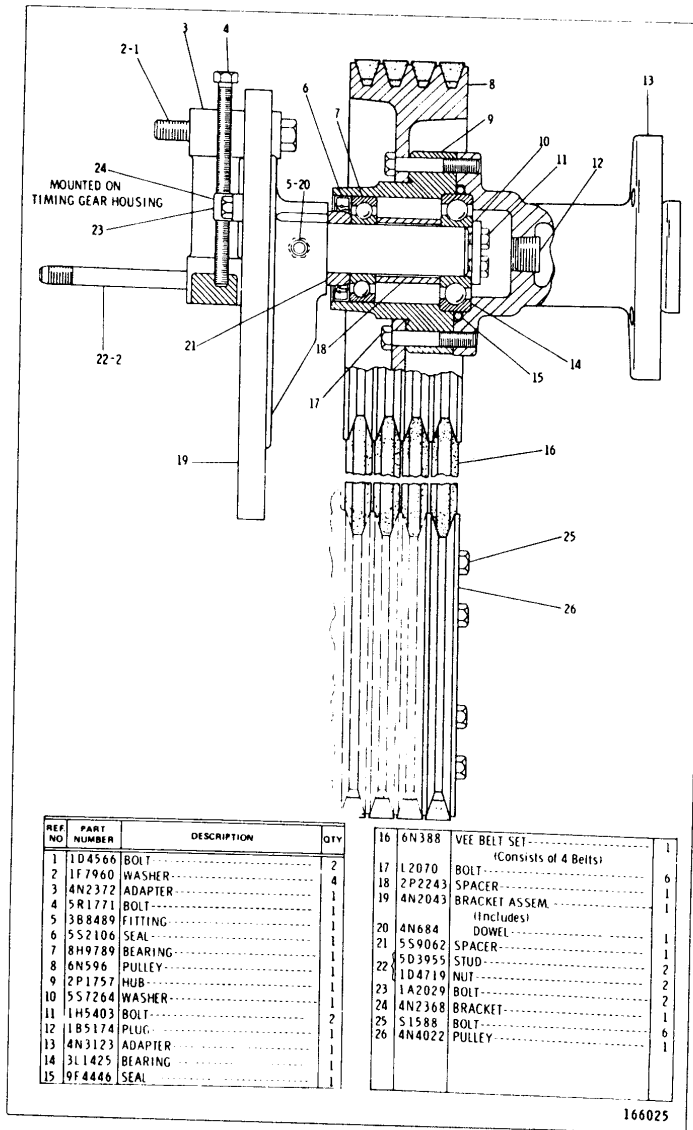


119362

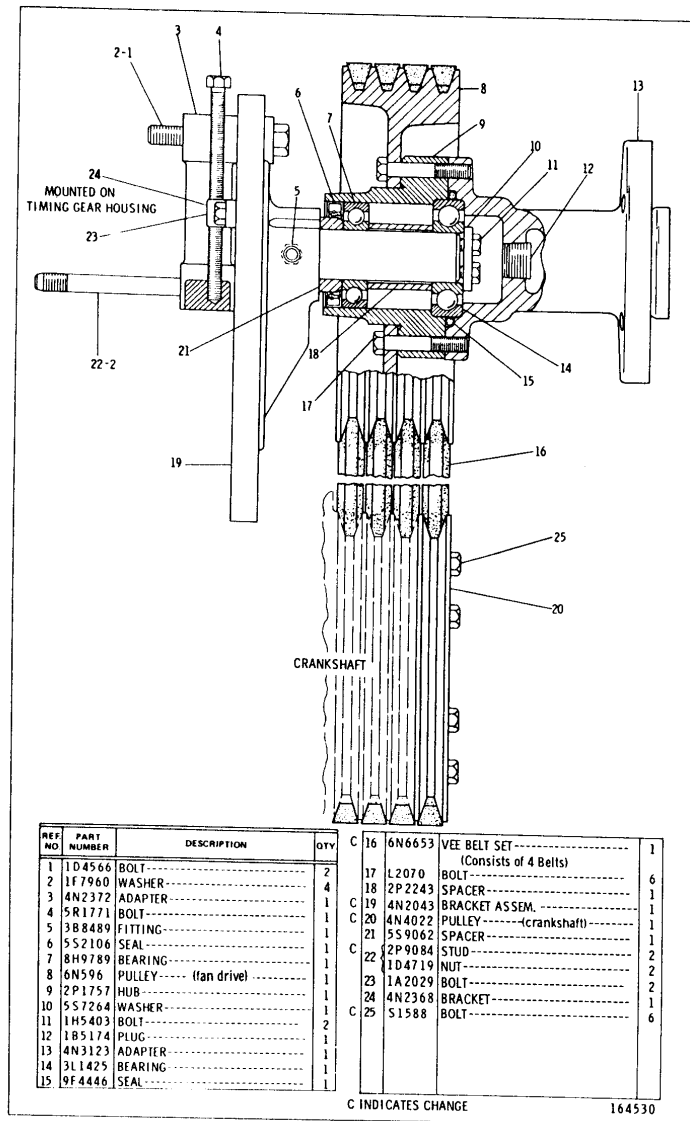
4N3466 SUCTION FAN GROUP—46 Inch—Type 1
 Refer to Chart shown on Page 53B
 AN ATTACHMENT



4N3466 SUCTION FAN GROUP—46 Inch—Type 2
Refer to Chart shown on Page 53B, AN ATTACHMENT



6N330 FAN DRIVE GROUP—46 Inch— Type 1
Refer to Chart shown on Page 53B
AN ATTACHMENT



6N330 SUCTION FAN DRIVE GROUP—46 Inch—Type 2
Refer to Chart shown on Page 53B
AN ATTACHMENT

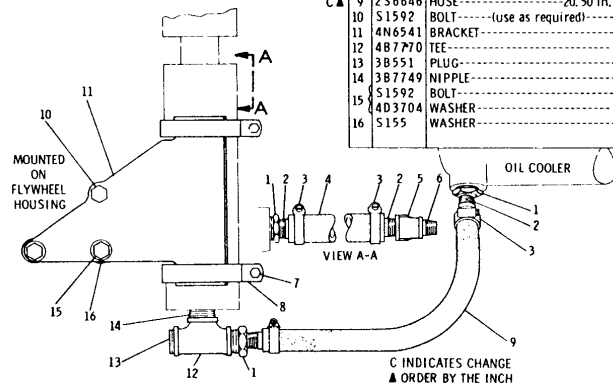
PAGE

1	4N6540	MOUNTING GROUP.....	84
1	5L8674	HEATER--120 VOLTS, 2 KILOWATTS	
1	5L9071	HEATER--240 VOLTS, 2 KILOWATTS	
1	3M8596	HEATER--120 VOLTS, 3 KILOWATTS	
1	5L7806	HEATER--240 VOLTS, 3 KILOWATTS	

3N6880 JACKET WATER HEATER AND MOUNTING GROUP
AN ATTACHMENT

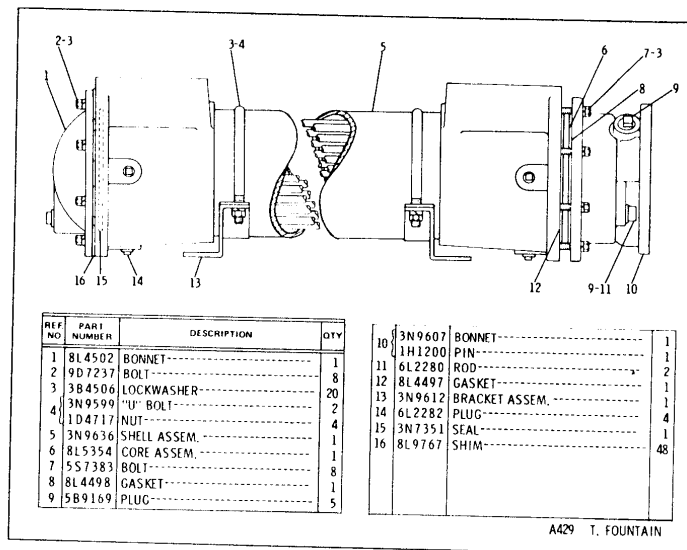
REF. NO.	PART NUMBER	DESCRIPTION	QTY
C 1	6B9081	BUSHING-----	3
C 2	7K7739	PIPE-----	4
C 3	9M2904	CLAMP-----	4

▲	4	256646	HOSE	7 in.		
	5	167711	COUPLING		1	
	6	387744	NIPPLE		1	
	7	284229	CLAMP		2	
	8	51588	BOLT		2	
		104717	NUT		2	
	C▲	9	256646	HOSE	20.50 in.	
		10	51592	BOLT	(use as required)	1
		11	486541	BRACKET		1
		12	487707	TEE		1
		13	5951	PLUG		1
		14	387749	NIPPLE		1
			51592	BOLT		2
		15	403704	WASHER		2
			5155	WASHER		2
		16				

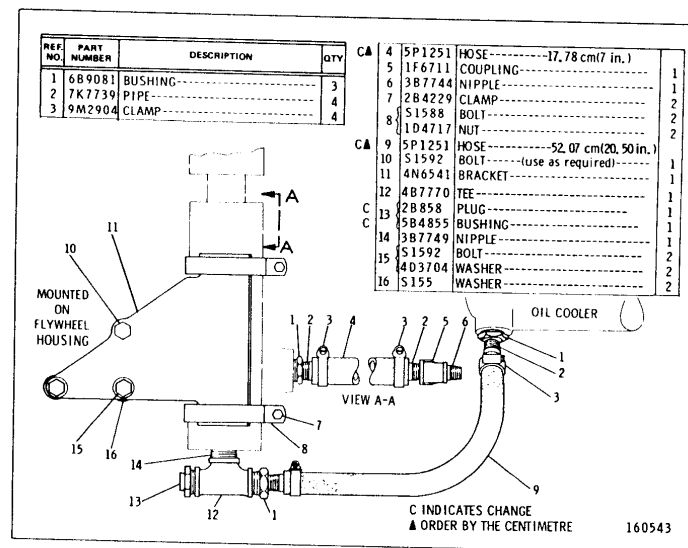


4N6540 JACKET WATER HEATER MOUNTING GROUP—Type 1
Part of 3N6880 Jacket Water Heater and Mounting Group

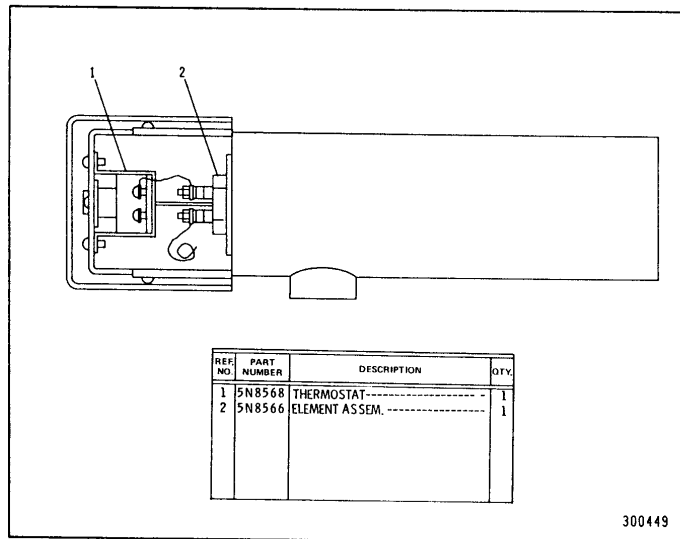
149054



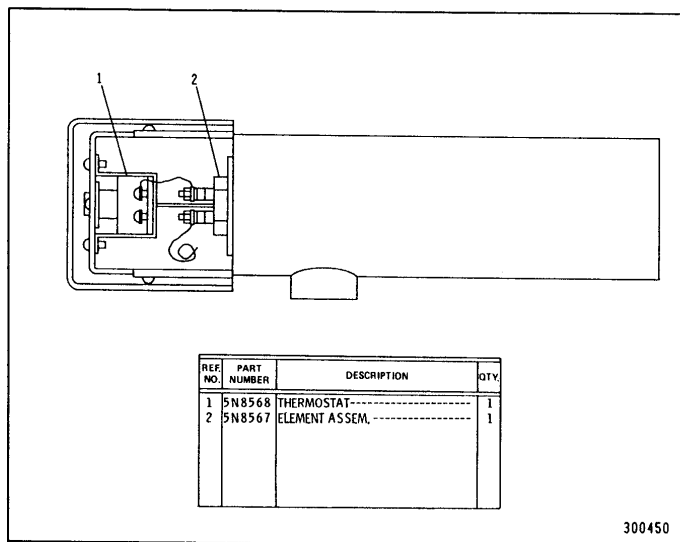
3N7990 HEAT EXCHANGER GROUP—Sea Water
Part of 3N8558 Lines and Heat Exchanger Group shown on Page 84B



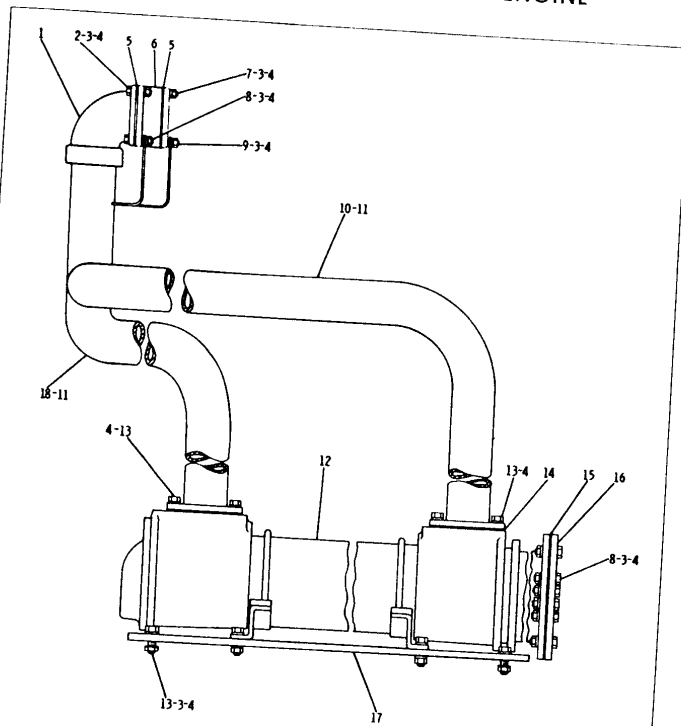
4N6540 JACKET WATER HEATER MOUNTING GROUP—Type 2
Part of 3N6880 Jacket Water Heater and Mounting Group shown on Page 84



5N5739 JACKET WATER HEATER GROUP—120 Volt, 3 Kilowatts—2 Required
AN ATTACHMENT



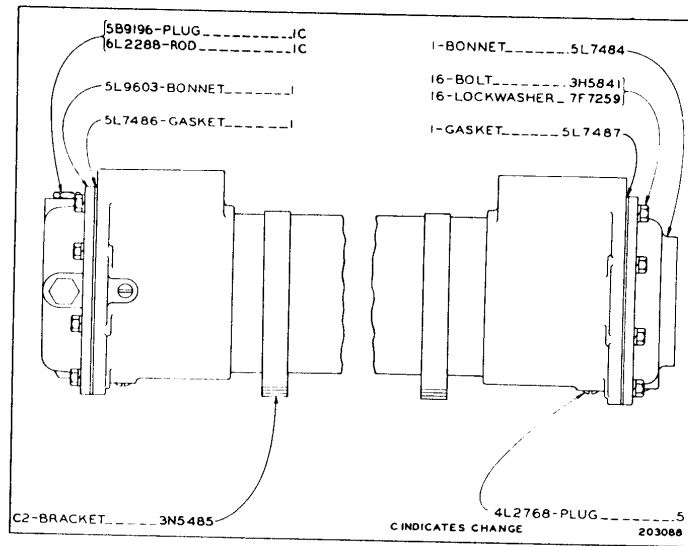
5N5740 JACKET WATER HEATER GROUP—240 Volt, 3 Kilowatts—2 Required
AN ATTACHMENT



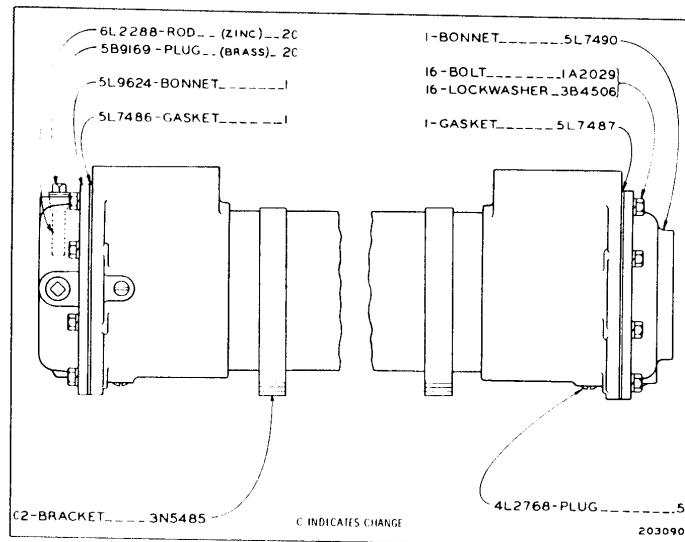
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	6N6473	ELBOW-----	2
2	S1591	BOLT-----	2
3	1D4717	NUT-----	2
4	5M2894	WASHER-----	24
5	2N931	GASKET-----	44
6	5N2808	ADAPTER-----	3
7	L1352	BOLT-----	1
8	S1571	BOLT-----	2
9	T65	BOLT-----	10
10	3N8439	TUBE ASSEM-----	2
11	9F4446	SEAL-----	1
12	3N7990	EXCHANGER GROUP-----	2
		(Separate Illustration)	1
13	S1588	BOLT-----	16
14	4L3862	GASKET-----	2
15	4F4873	GASKET-----	2
16	3N1555	FLANGE-----	2
17	3N8457	PLATE-----	1
18	3N8440	TUBE ASSEM-----	1

158997

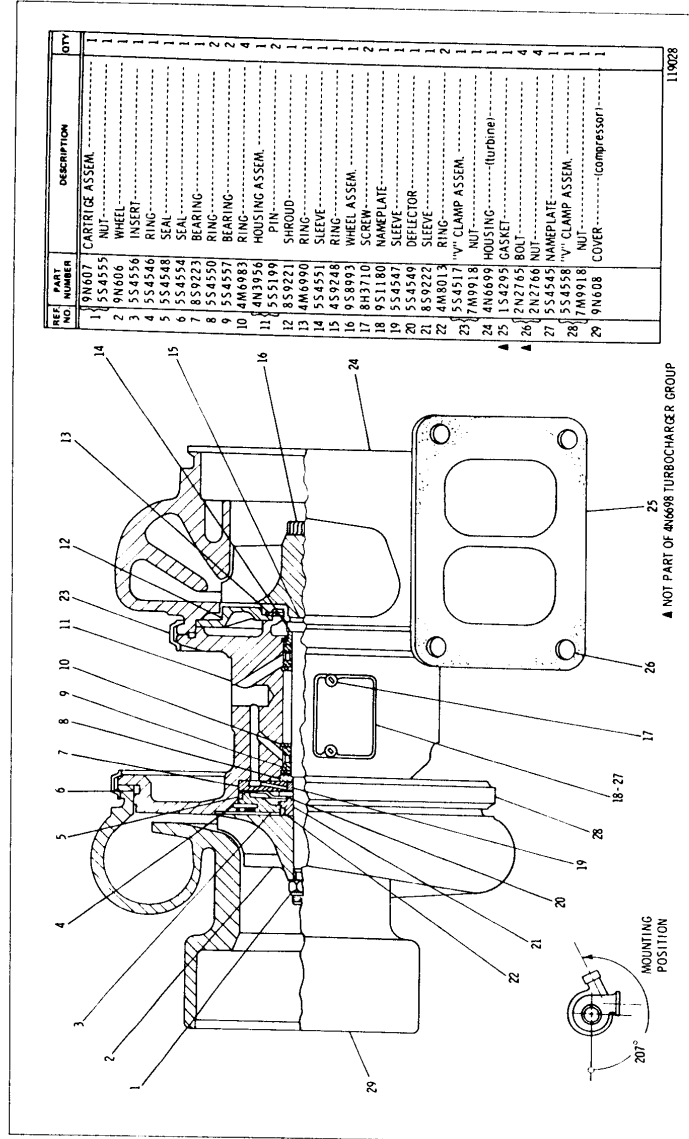
3N8558 LINES AND HEAT EXCHANGER GROUP—Sea Water
FOR USE WITH PACKAGE GENERATOR SET
3N7990 Heat Exchanger parts are shown on Page 84A
AN ATTACHMENT



2R4840 HEAT EXCHANGER ASSEMBLY
AN ATTACHMENT



5L6443 HEAT EXCHANGER ASSEMBLY
AN ATTACHMENT

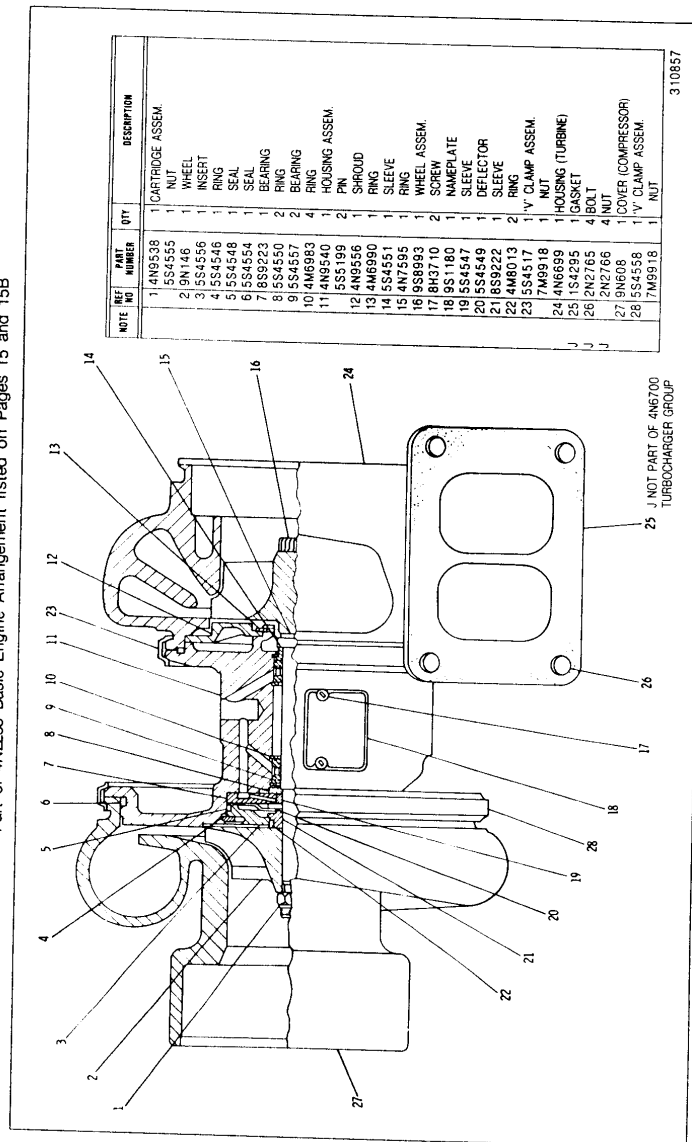


4N6698 TURBOCHARGER GROUP (4N6701 N/S)

Serial No. 90J1 to 90J387 inclusive

Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B

4N6700 TURBOCHARGER GROUP (4N6701 N/S)
Serial No. 90U379—Up
Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B



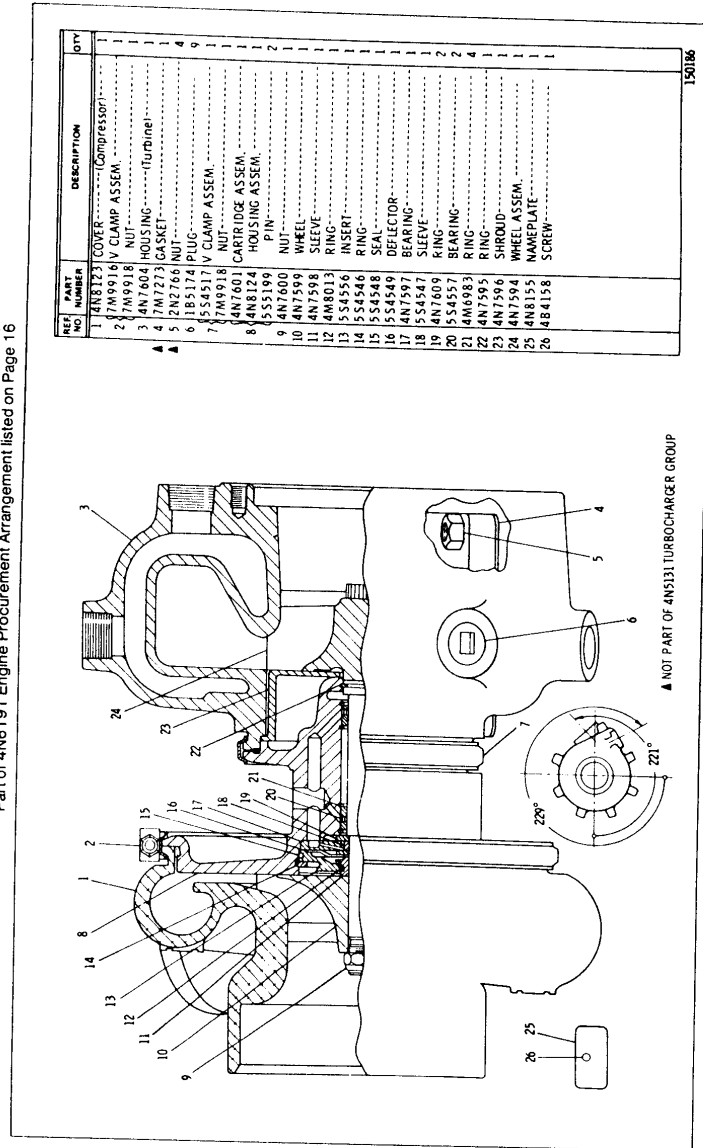
NOTE	REF. NO.	PART NUMBER	QTY.	DESCRIPTION
	1	4N9538	1	CARTRIDGE ASSEM.
	2	5S4555	1	WHEEL
	3	9N146	1	WHEEL
	4	5S4556	1	INSERT
	5	5S4548	1	RING
	6	5S4548	1	RING
	7	8S9223	1	SEAL
	8	5S4550	1	BEARING
	9	5S4557	2	RING
	10	4N6983	2	BEARING
	11	4N9540	1	HOUSING ASSEM.
	12	5S5199	2	PN
	13	4N9556	1	SHROUD
	14	4N6990	1	RING
	15	4N7585	1	SLEEVE
	16	9S8983	1	RING
	17	8H3710	2	WHEEL ASSEM.
	18	9S1180	1	SCREW
	19	5S4547	1	NAMEPLATE
	20	5S4549	1	SLEEVE
	21	6S9222	1	DEFLECTOR
	22	4N8013	2	SLEEVE
	23	5S4517	2	RING
	24	4N6859	1	IV CLAMP ASSEM.
	25	1S4295	1	NUT
	26	2N2765	1	HOUSING (TURBINE)
	27	2N2766	4	GASKET
	28	5S4538	1	BOLT
	29	5S4538	1	COVER (COMPRESSOR)
	30	5S4538	1	IV CLAMP ASSEM.
	31	7MS918	1	NUT

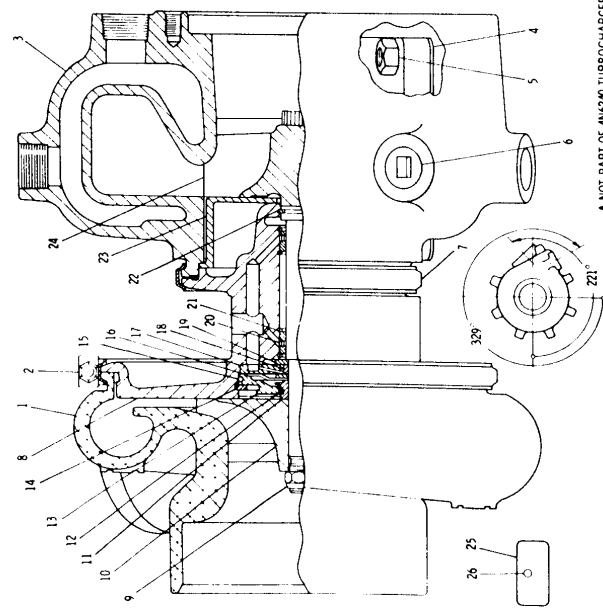
310857

J NOT PART OF 4N6700 TURBOCHARGER GROUP

1

4N5131 TURBOCHARGER GROUP—Watercooled (4N4074 N/S)
Part of 4N6191 Engine Procurement Arrangement listed on Page 16



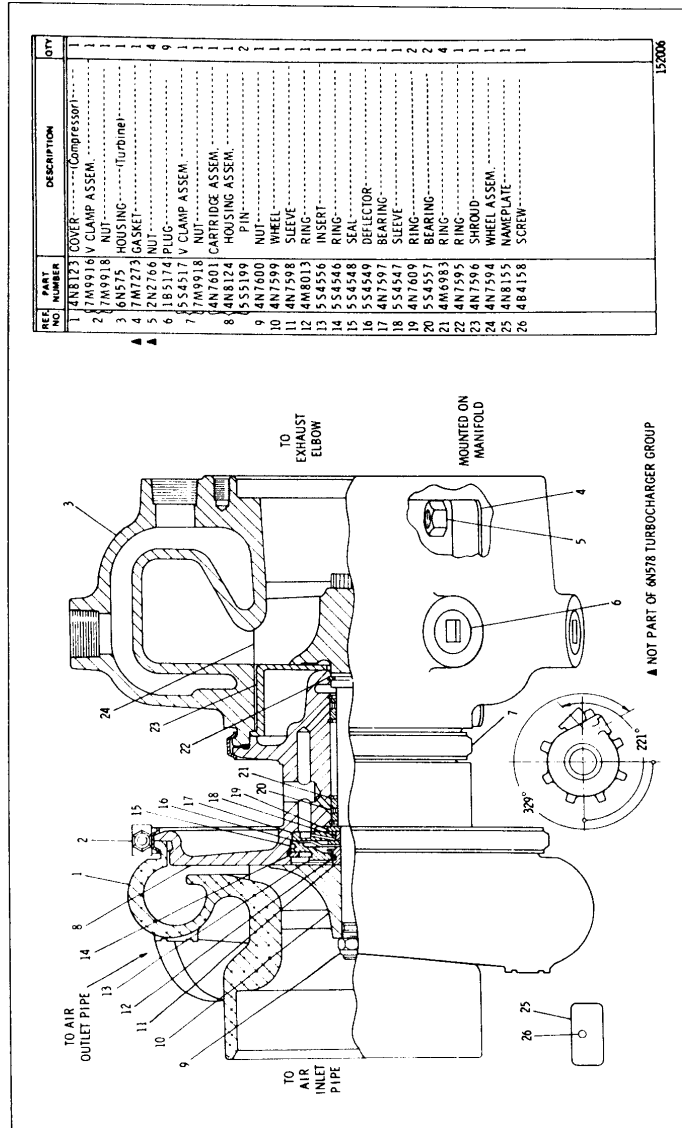


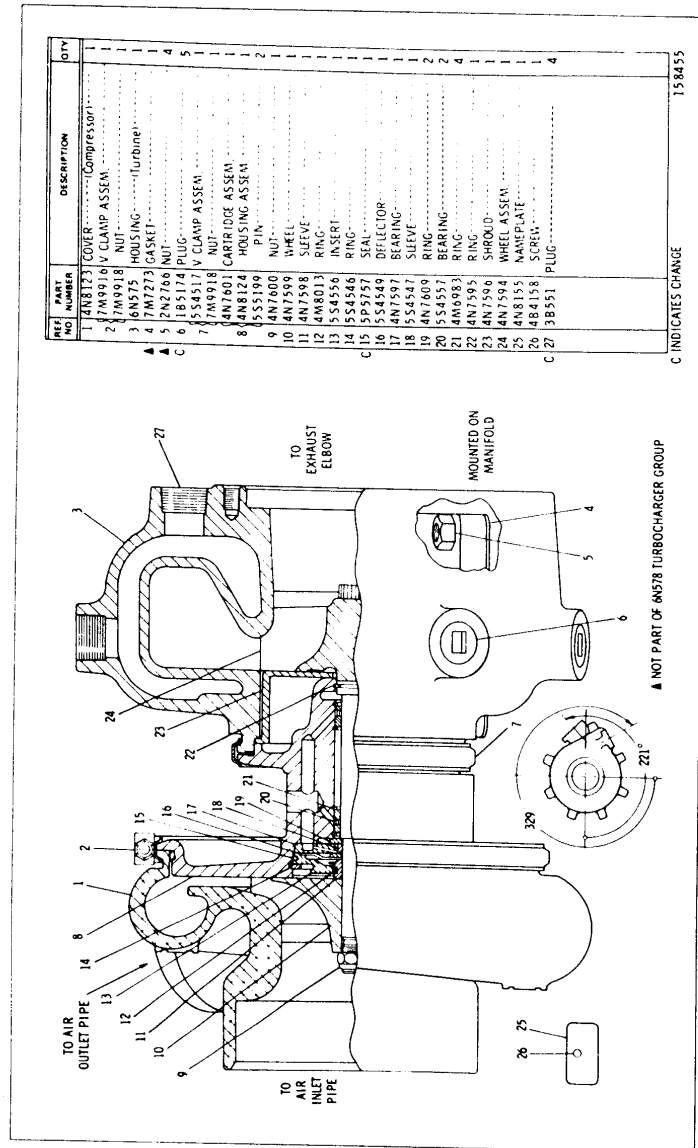
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	4N8123	COVER.....Compressor	1
2	7N9918	V CLAMP ASSEM.....	1
3	4N7603	HOUSING.....Turbine	1
4	7N9918	GASKET.....	1
5	4N7603	NUT.....	4
6	18S1124	PLUG.....	4
7	4N7603	V CLAMP ASSEM.....	1
8	4N7603	NUT.....	1
9	4N7603	CARTIDGE ASSEM.....	1
10	4N7603	HOUSING ASSEM.....	1
11	4N7603	PIN.....	2
12	4N7599	WHEEL.....	1
13	4N7598	SLEEVE.....	1
14	4M8013	RING.....	1
15	5S4556	INSERT.....	1
16	5S4546	RING.....	1
17	5S4548	SEAL.....	1
18	5S4549	DEFLECTOR.....	1
19	5S4547	SLEEVE.....	1
20	4N7609	BEARING.....	2
21	4M6983	RING.....	4
22	4N7595	RING.....	1
23	4N7596	SHROUD.....	1
24	4N7594	WHEEL ASSEM.....	1
25	4N8155	NAMEPLATE.....	1
26	4B4158	SCREW.....	1

▲ NOT PART OF 4N6240 TURBOCHARGER GROUP

4N6240 TURBOCHARGER GROUP (4N6587 N/S)
Only separate parts serviced. When complete Group is required order 6N578

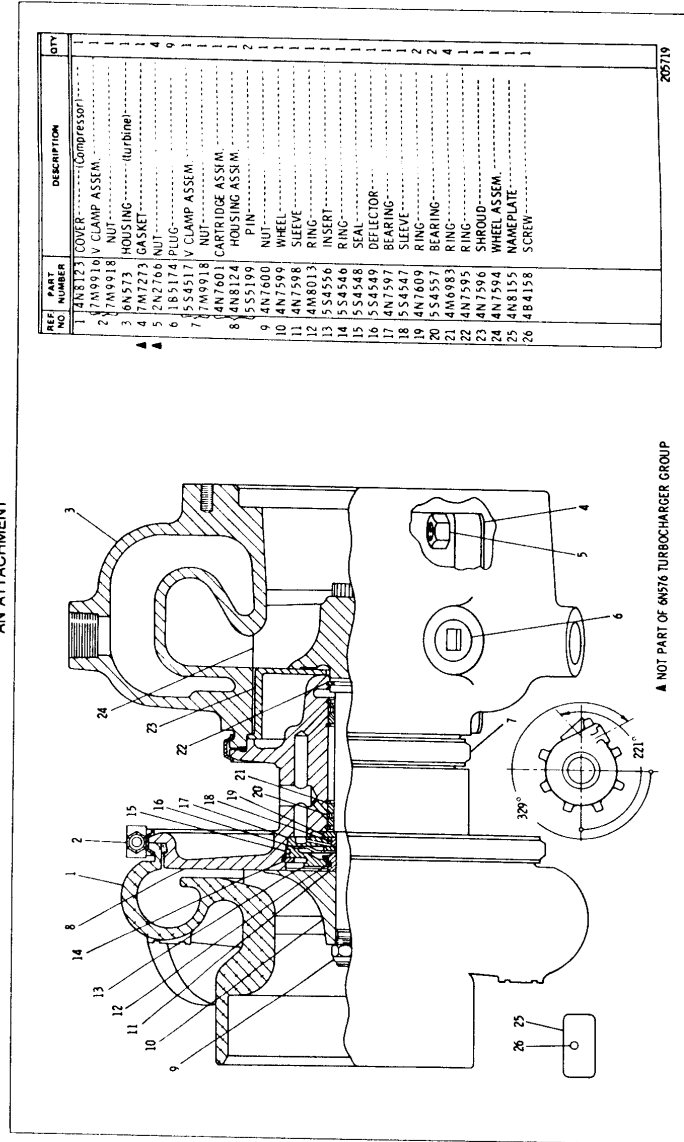
6N578 TURBOCHARGER GROUP (4N6587 N/S)—Type 1
AN ATTACHMENT

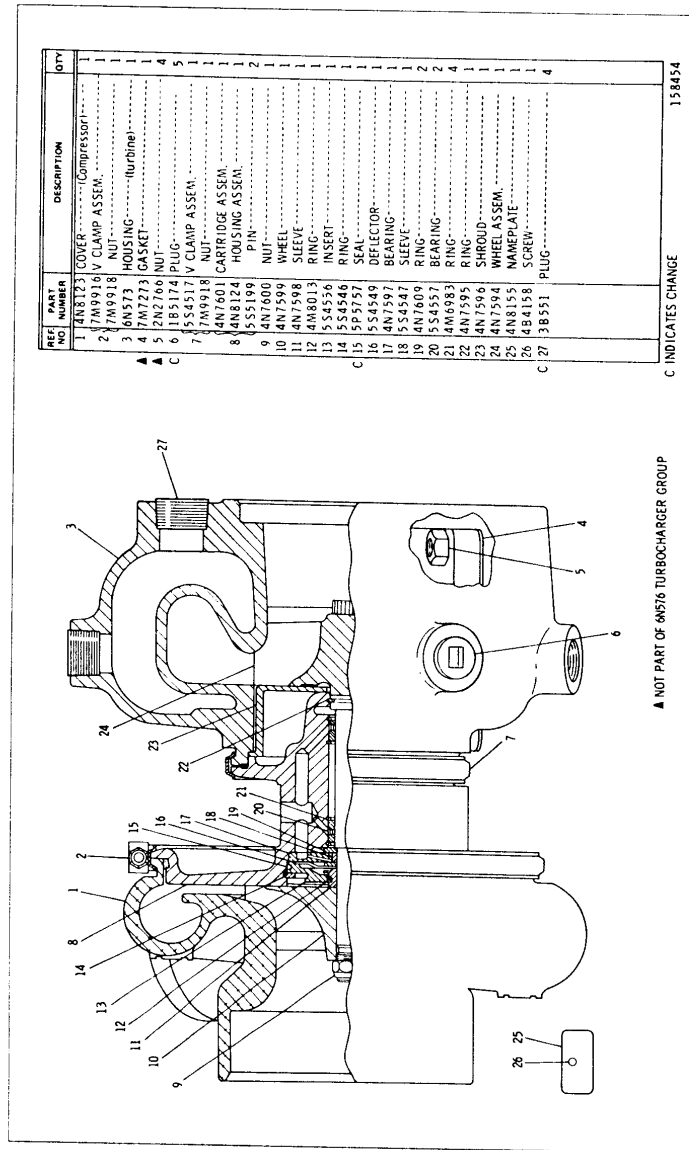




6N578 TURBOCHARGER GROUP (4N6587 N/S)—Type 2
AN ATTACHMENT

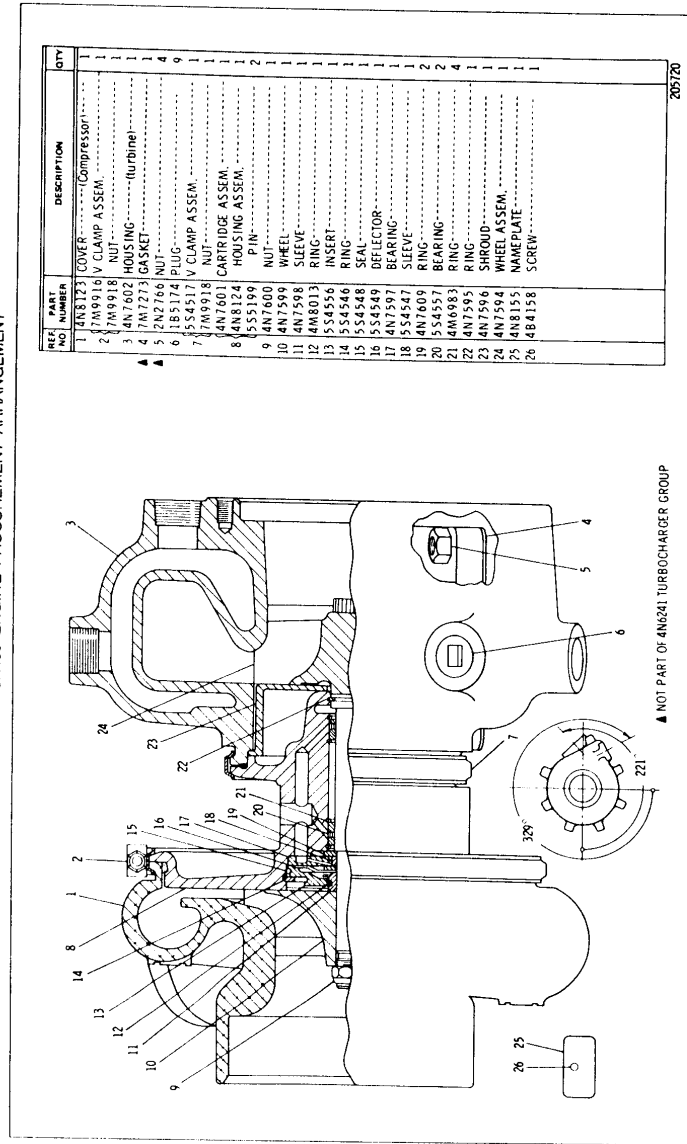
6N576 TURBOCHARGER GROUP (4N6597 N/S)—Watercooled—Type 1
AN ATTACHMENT





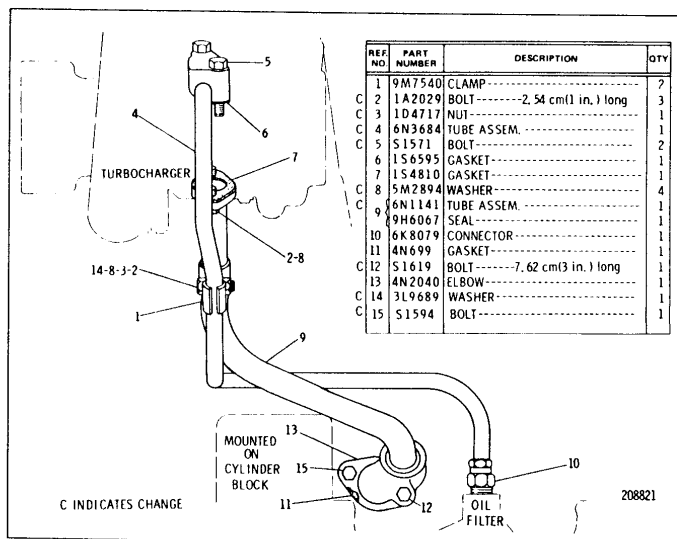
6N576 TURBOCHARGER GROUP (4N6597 N/S)—Watercooled—Type 2
AN ATTACHMENT

4N6241 TURBOCHARGER GROUP (4N6597 N/S)
FOR USE WITH 6N460 ENGINE PROCUREMENT ARRANGEMENT

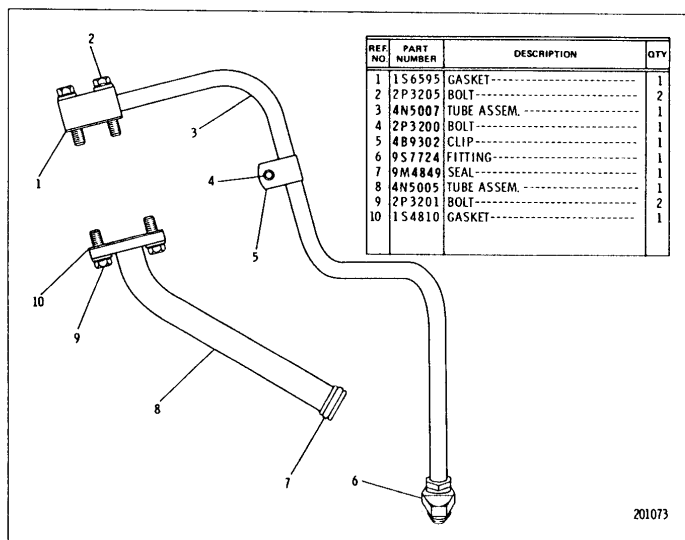


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	4N8123	COVER----- (Compressor)	1
2	4N9916	V CLAMP ASSEM.	1
3	4N9918	NUT-----	1
4	4N7602	HOUSING----- (turbine)	1
5	4N7273	GASKET-----	1
6	4N7600	NUT-----	4
7	4N7601	PLUG-----	9
8	4N7603	V CLAMP ASSEM.	1
9	4N7604	CLAMP ASSEM.	1
10	4N7605	CLAMP ASSEM.	1
11	4N7606	CLAMP ASSEM.	1
12	4N7607	CLAMP ASSEM.	1
13	4N7608	CLAMP ASSEM.	1
14	4N7609	CLAMP ASSEM.	1
15	4N7610	CLAMP ASSEM.	1
16	4N7611	CLAMP ASSEM.	1
17	4N7612	CLAMP ASSEM.	1
18	4N7613	CLAMP ASSEM.	1
19	4N7614	CLAMP ASSEM.	1
20	4N7615	CLAMP ASSEM.	1
21	4N7616	CLAMP ASSEM.	1
22	4N7617	CLAMP ASSEM.	1
23	4N7618	CLAMP ASSEM.	1
24	4N7619	CLAMP ASSEM.	1
25	4N7620	CLAMP ASSEM.	1
26	4N7621	CLAMP ASSEM.	1

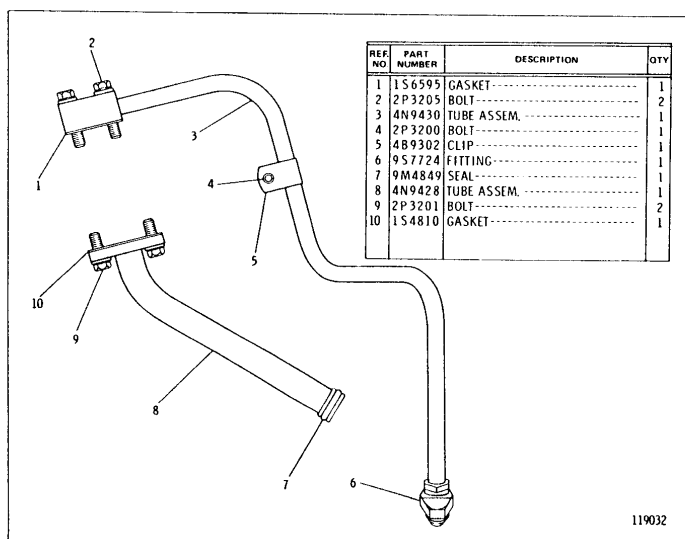
205720



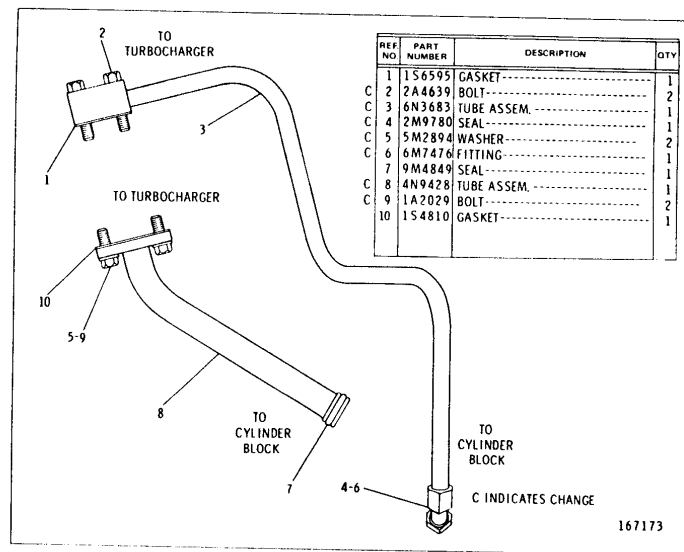
4N5394 TURBOCHARGER OIL LINES GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B



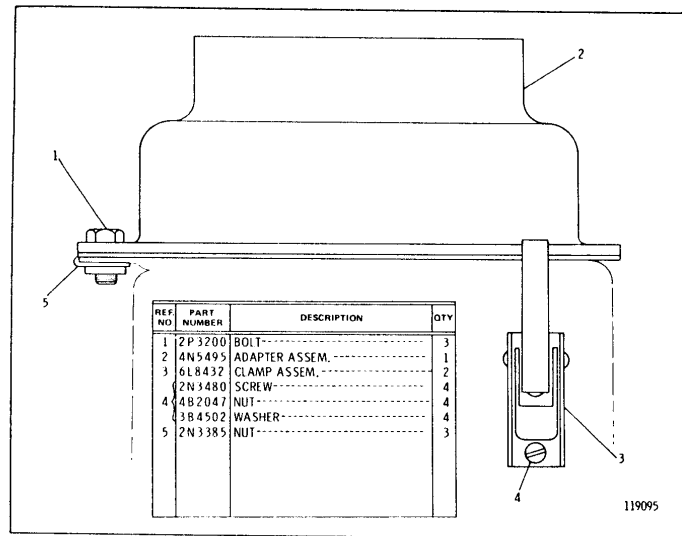
4N4073 TURBOCHARGER OIL LINES GROUP—Type 1
Part of 4N6191 and 6N460 Engine Procurement Arrangements
listed on Pages 16 and 16A



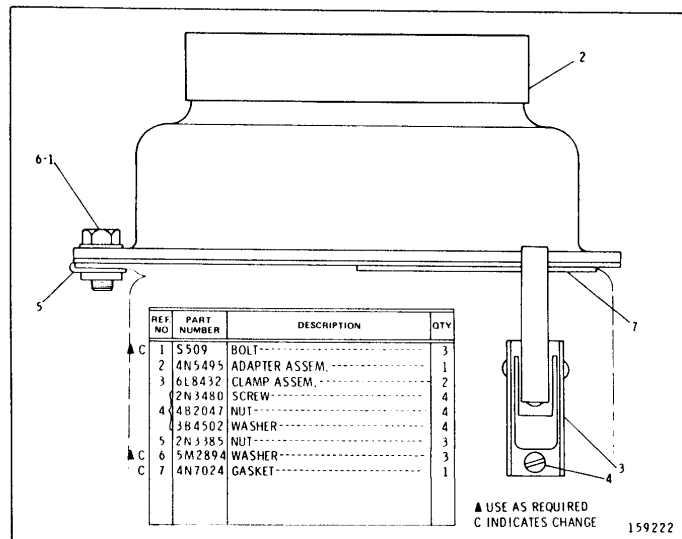
4N4073 TURBOCHARGER OIL LINES GROUP—Type 2
Part of 4N6191 and 6N460 Engine Procurement Arrangements
listed on Pages 16 and 16A



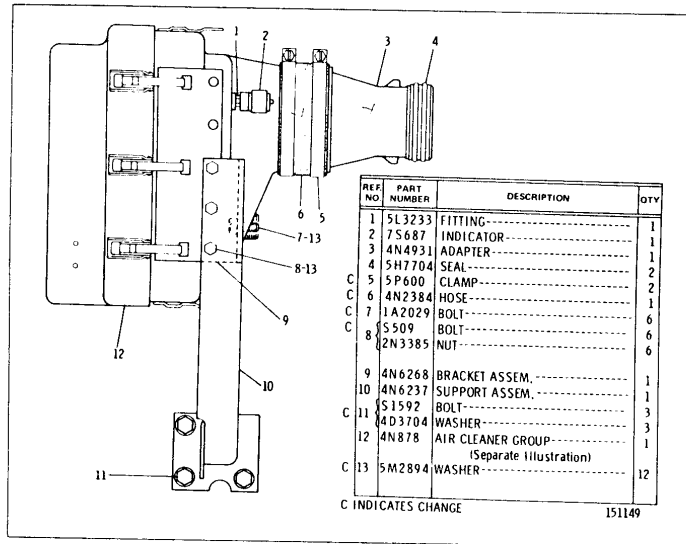
4N4073 TURBOCHARGER OIL LINES GROUP—Type 3



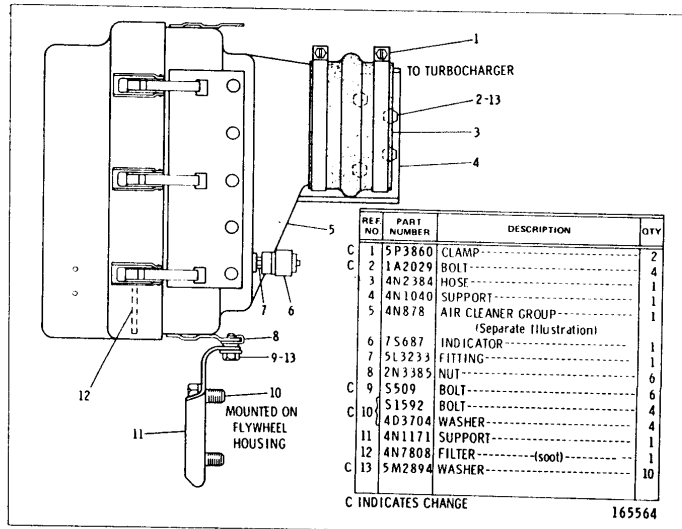
4N5498 AIR CLEANER ADAPTER GROUP—Type 1
AN ATTACHMENT



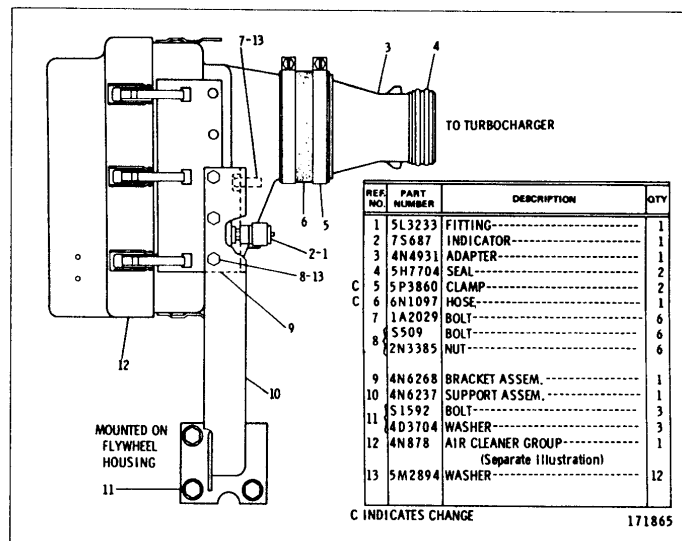
4N5498 AIR CLEANER ADAPTER GROUP—Type 2
AN ATTACHMENT



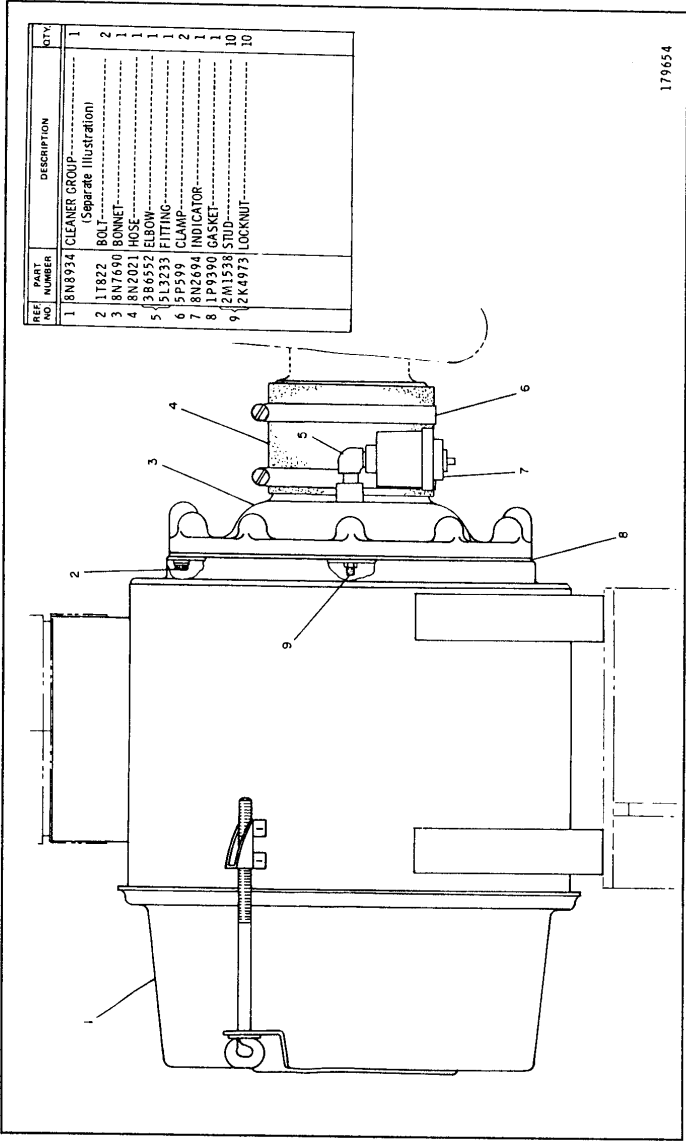
4N873 AIR CLEANER GROUP—Type 1
FOR USE WITH HOT MANIFOLD
4N878 Air Cleaner parts are shown on Page 93
AN ATTACHMENT



4N879 AIR CLEANER GROUP
FOR USE WITH WATERCOOLED MANIFOLD
4N878 Air Cleaner parts are shown on Page 93
AN ATTACHMENT



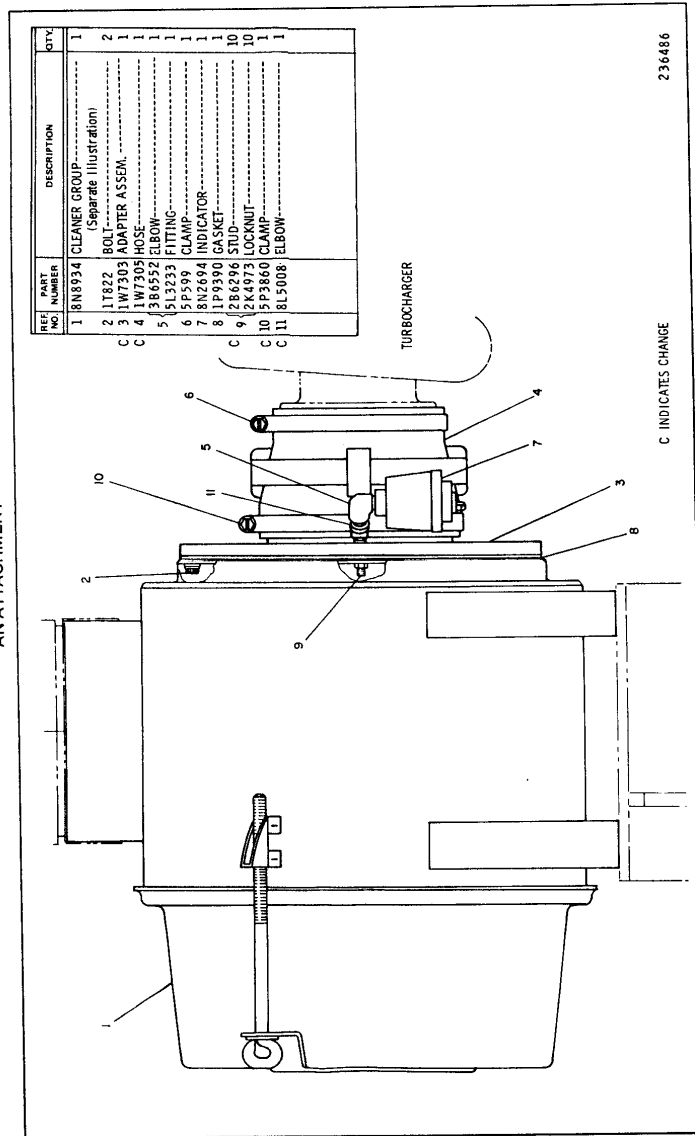
4N873 AIR CLEANER GROUP—Type 2
FOR USE WITH HOT MANIFOLD
4N878 Air Cleaner parts are shown on Page 93
AN ATTACHMENT

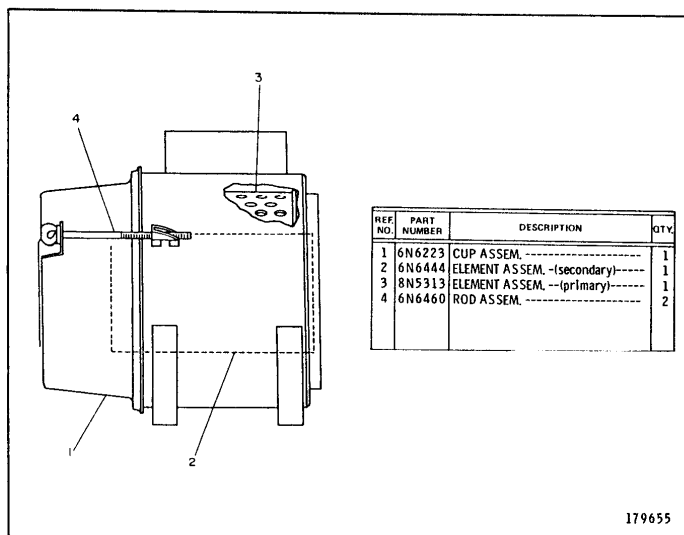


179654

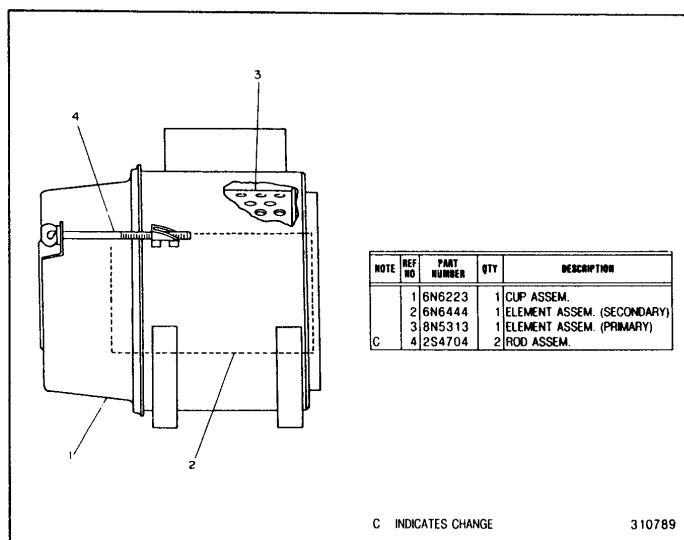
8N8358 AIR CLEANER GROUP—Heavy Duty—Type 1
8N8934—Page 92D. NOT FOR USE WITH WATERCOOLED MANIFOLDS
AN ATTACHMENT

8N8358 AIR CLEANER GROUP—Heavy Duty—Type 2
8N8934—Page 92D. NOT FOR USE WITH WATERCOOLED MANIFOLDS
AN ATTACHMENT

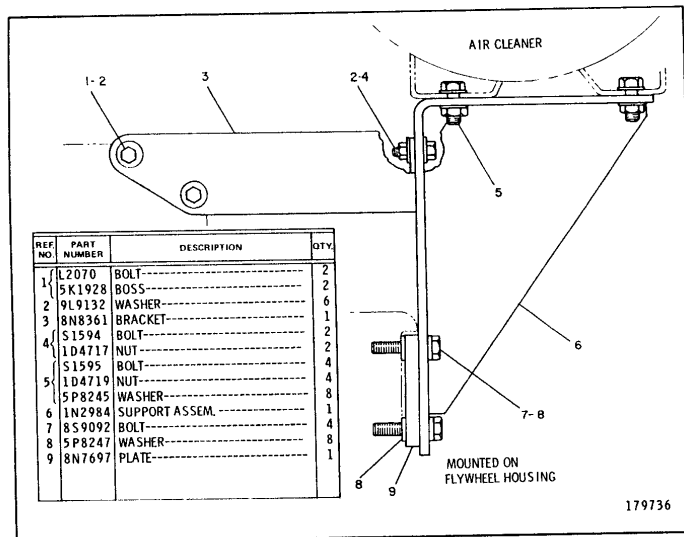




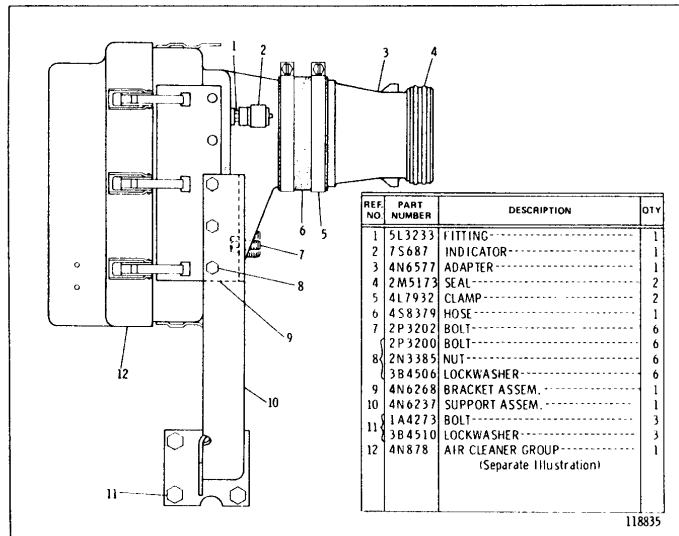
8N8934 AIR CLEANER GROUP—Type 1
Part of 8N8358 Air Cleaner. AN ATTACHMENT



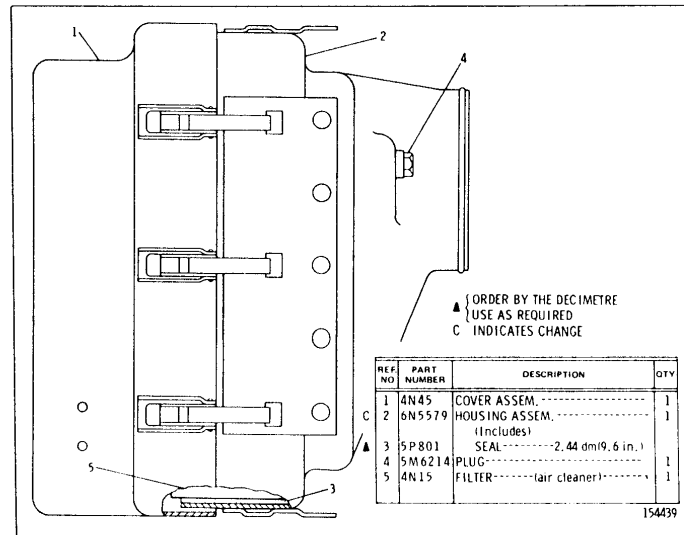
8N8934 AIR CLEANER GROUP—Type 2
Part of 8N8358 Air Cleaner. AN ATTACHMENT



8N9759 AIR CLEANER MOUNTING GROUP
NOT FOR USE WITH WATERCOOLED MANIFOLDS
AN ATTACHMENT



4N8120 AIR CLEANER GROUP
AN ATTACHMENT



4N878 AIR CLEANER GROUP
Part of 4N873, 4N879 and 4N8120 Air Cleaner Groups shown on Pages 92, 92A and 93

3406 INDUSTRIAL ENGINE						
BHP @ RPM	RATING	COMB. SYSTEM	AIR CLEANER GROUP	DUST EJECT. GROUP	MUFFLER GROUP	PRECLEANER GROUP
375 @ 2100	INT	PC	6N567	6N568	6N566	6N588
325 @ 2100	INT	DI	6N567	6N568	6N566	6N588
333 @ 1800	INT	PC	6N567	6N552	6N556	6N475
290 @ 1800	INT	DI	6N567	6N552	6N556	6N475
275 @ 1800	CONT	PC	6N567	6N551	6N554	6N473
250 @ 1800	CONT	DI	6N567	6N551	6N554	6N473
275 @ 1500	INT	PC	6N567	6N551	6N554	6N473
240 @ 1500	INT	DI	6N567	6N551	6N553	6N473
235 @ 1500	CONT	PC	6N567	6N551	6N553	6N473
215 @ 1500	CONT	DI	6N567	6N551	6N553	6N473

3406 GENERATOR PACKAGE						
BHP @ RPM	RATING	COMB. SYSTEM	AIR CLEANER GROUP	DUST EJECT. GROUP	MUFFLER GROUP	PRECLEANER GROUP
345 @ 1800	STANDBY	PC	6N858	6N856	6N556	6N475
305 @ 1800	STANDBY	DI	6N858	6N856	6N556	6N475
305 @ 1800	PRIME	PC	6N858	6N856	6N556	6N475
270 @ 1800	PRIME	DI	6N858	6N857	6N554	6N473
300 @ 1500	STANDBY	PC	6N858	6N857	6N554	6N473
265 @ 1500	STANDBY	DI	6N858	6N857	6N554	6N473
260 @ 1500	PRIME	PC	6N858	6N857	6N554	6N473
225 @ 1500	PRIME	DI	6N858	6N857	6N553	6N473

ALL FOUR GROUPS REQUIRED TO COMPLETE INSTALLATION

160384

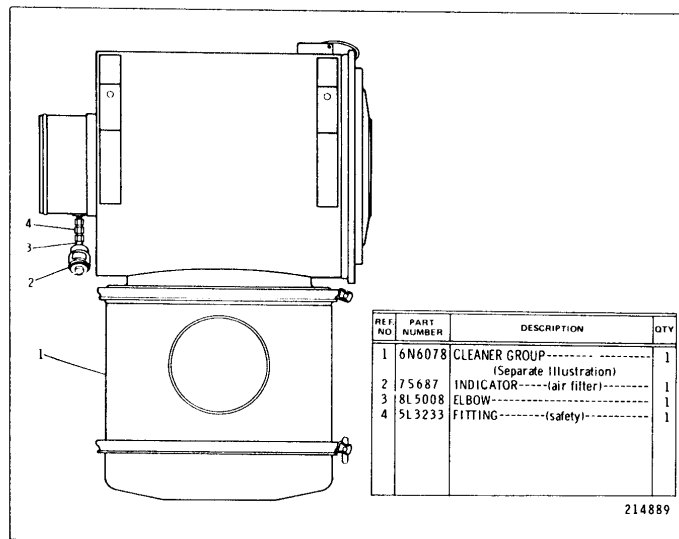
6N555 HEAVY DUTY AIR CLEANER AND MUFFLER CHART
AN ATTACHMENT

INTAKE AND EXHAUST SYSTEM

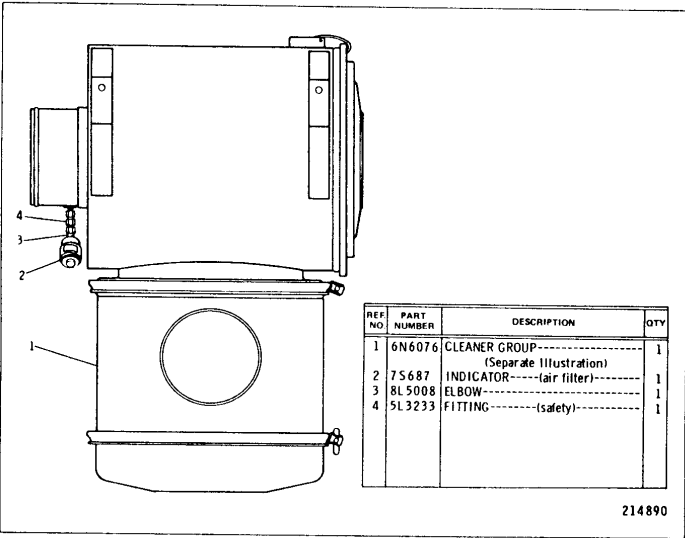
94-1

BHP @ RPM	RATING	COMB. SYSTEM	CLEANER GROUP	MOUNTING GROUP
375 @ 2100	INT	PC-TA	7N6331	★
325 @ 2100	INT	DI-T	7N6331	★
345 @ 1800	STANDBY	PC-TA	7N6331	★
305 @ 1800	PRIME	PC-TA	7N6331	★
305 @ 1800	STANDBY	DI-T	7N6332	★
275 @ 1800	CONT	PC-TA	7N6331	★
270 @ 1800	PRIME	DI-T	7N6332	★
250 @ 1800	CONT	DI-T	7N6330	★
300 @ 1500	STANDBY	PC-TA	7N6332	★
265 @ 1500	STANDBY	DI-T	7N6330	★
260 @ 1500	PRIME	PC-TA	7N6330	★
225 @ 1500	PRIME	DI-T	7N6330	★
*MOUNTING GROUPS FOR AIR CLEANERS TO BE FURNISHED BY CUSTOMER				216676

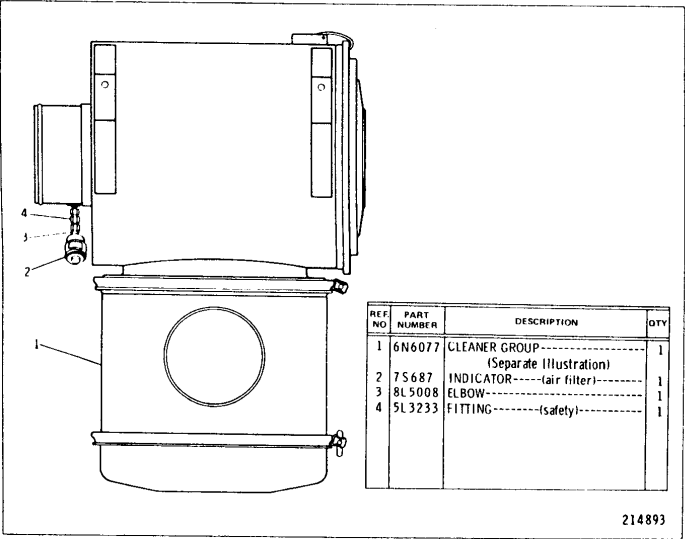
6N5580 HEAVY DUTY AIR CLEANER CHART
AN ATTACHMENT



7N6331 AIR CLEANER GROUP
6N6078 Cleaner parts are shown on Page 94-3
Refer to Chart shown on Page 94-1 for usage

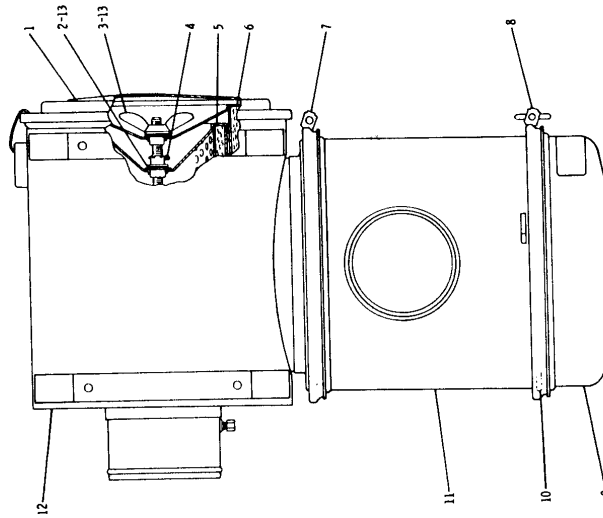


7N6332 AIR CLEANER GROUP
6N6076 Cleaner parts are shown on Page 94-4
Refer to Chart shown on Page 94-1 for usage
AN ATTACHMENT



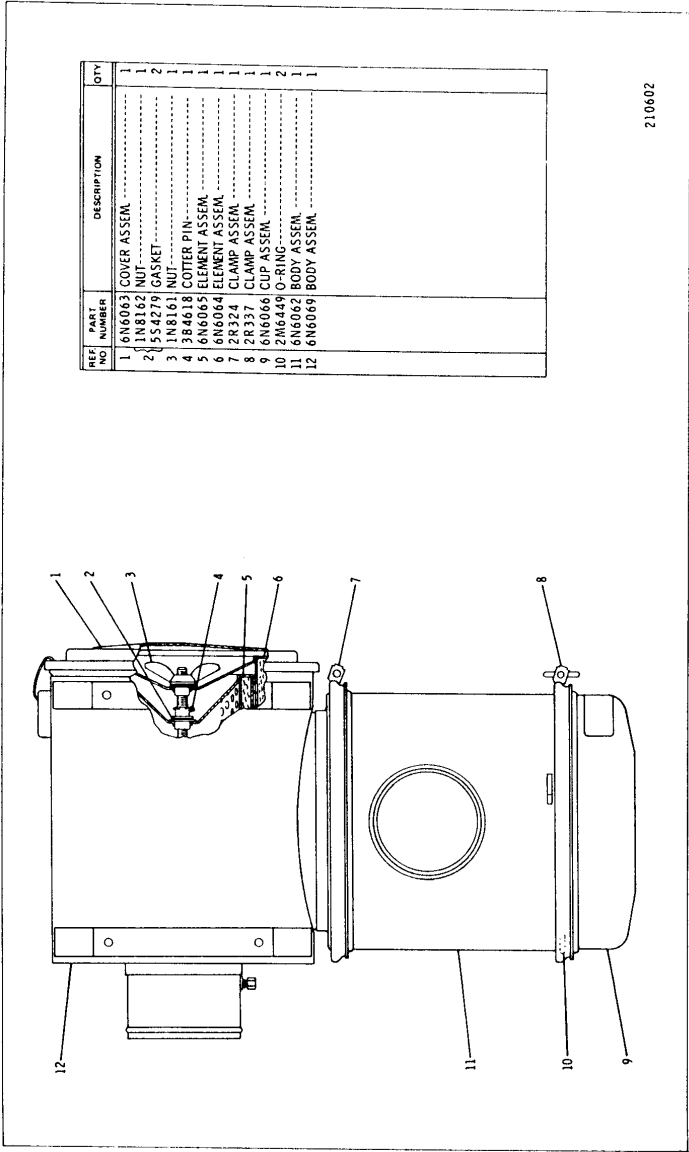
7N6330 AIR CLEANER GROUP
6N6077 Cleaner parts are shown on Page 94-5
Refer to Chart shown on Page 94-1 for usage
AN ATTACHMENT

6N6078 AIR CLEANER GROUP
Part of 7N6331 Air Cleaner Group shown on Page 94-1
AN ATTACHMENT



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	1N8160	COVER ASSEM.	1
2	1N8162	NUT	1
3	1N8161	COTTER PIN	1
4	3B4618	ELEMENT ASSEM.	1
5	6N6072	ELEMENT ASSEM.	1
6	6N6071	CLAMP ASSEM.	1
7	6L3314	SCREW (Includes)	1
8	6L3362	NUT	1
9	6L3363	CLAMP ASSEM. (Includes)	1
10	6L3365	BOLT	1
11	6L3364	CUP ASSEM.	1
12	5L2892	GASKET	2
13	6N6078	BODY ASSEM.	1
14	6N6079	BODY ASSEM.	1
15	334279	GASKET	2

210853

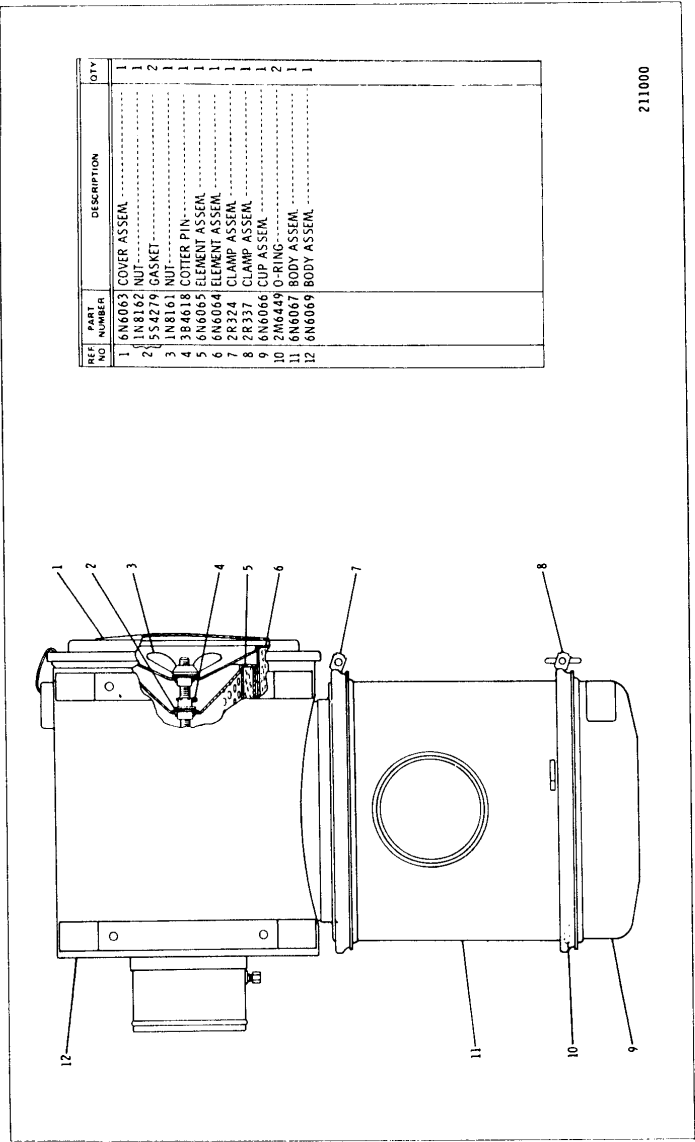


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	6N6063	COVER ASSEM.	1
2	1N8162	NUT	1
3	354279	GASKET	1
4	1N8161	NUTTER PIN	1
5	6N6062	ELEMENT ASSEM.	1
6	6N6061	ELEMENT ASSEM.	1
7	2R327	CLAMP ASSEM.	1
8	2R327	CLAMP ASSEM.	1
9	6N6066	CLIP ASSEM.	1
10	2N6448	O-RING	2
11	6N6062	BODY ASSEM.	1
12	6N6069	BODY ASSEM.	1

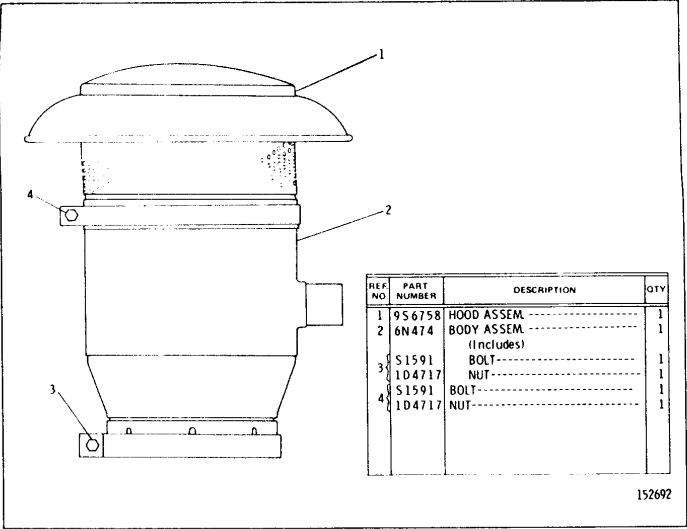
210602

6N6076 AIR CLEANER GROUP
Part of 7N6332 Air Cleaner Group shown on Page 94-2
AN ATTACHMENT

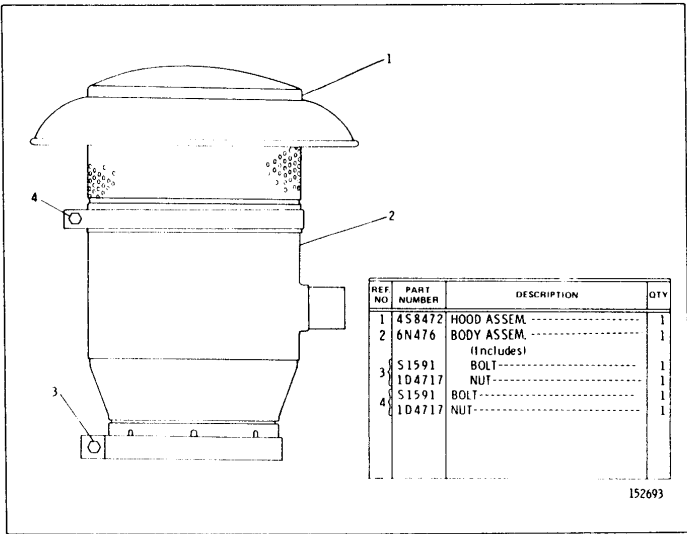
6N6077 AIR CLEANER GROUP
Part of 7N6330 Air Cleaner Group shown on Page 94-2
AN ATTACHMENT



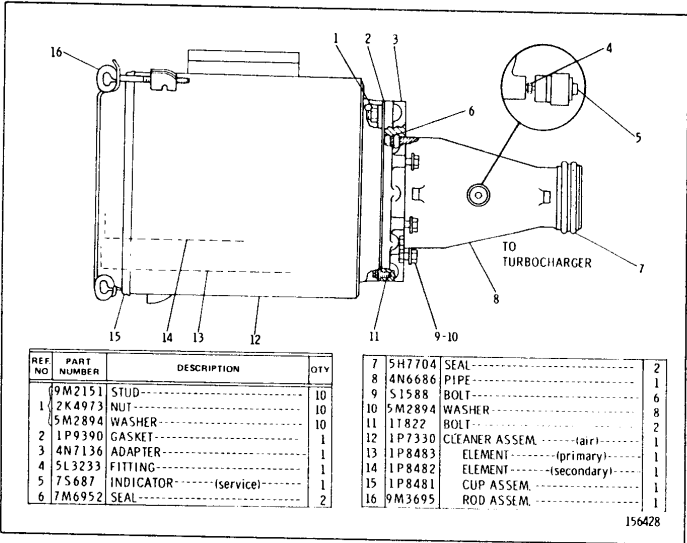
211000



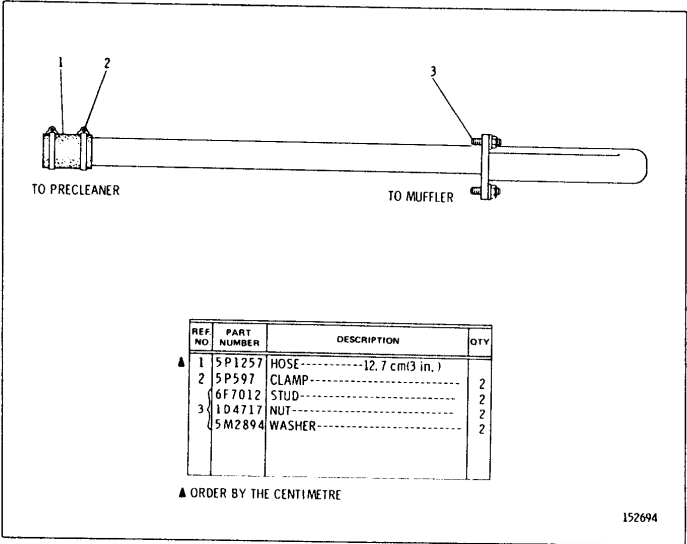
6N473 PRE-CLEANER GROUP
Refer to 6N555 Chart shown on Page 94 for usage. AN ATTACHMENT



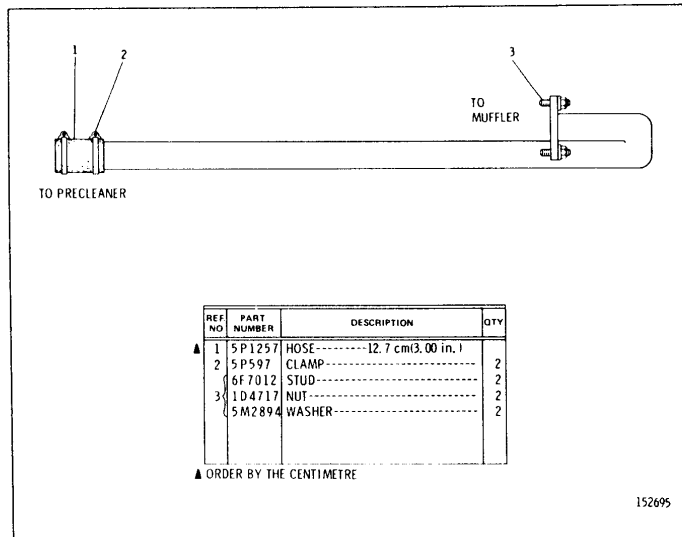
6N475 PRE-CLEANER GROUP
Refer to 6N555 Chart shown on Page 94 for usage. AN ATTACHMENT



6N567 AIR CLEANER GROUP
Refer to 6N555 Chart shown on Page 94 for usage. AN ATTACHMENT

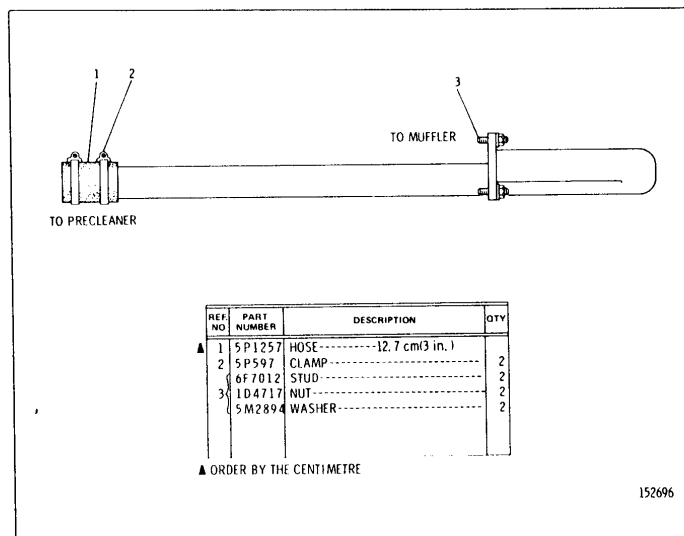


6N551 DUST EJECTOR
Refer to 6N555 Chart shown on Page 94 for usage. AN ATTACHMENT



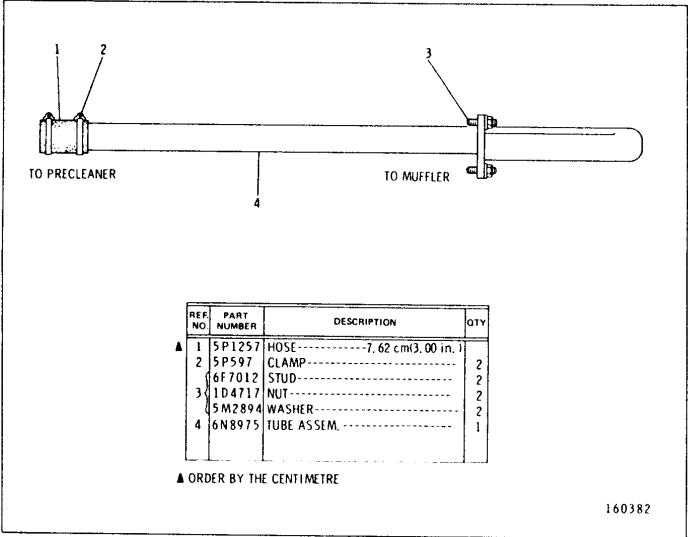
6N552 DUST EJECTOR GROUP

Refer to 6N555 Chart shown on Page 94 for usage. AN ATTACHMENT

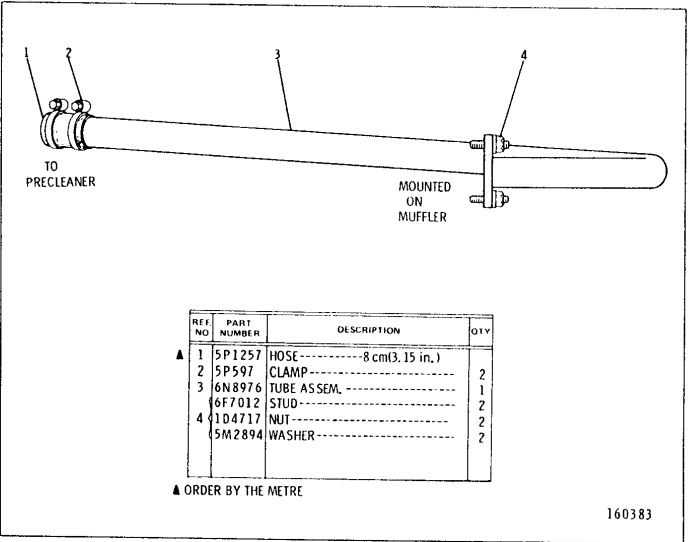


6N568 DUST EJECTOR GROUP

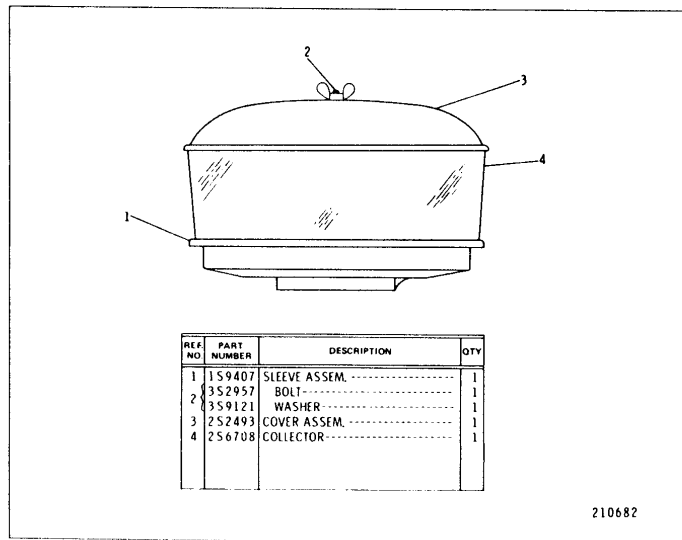
Refer to 6N555 Chart shown on Page 94 for usage. AN ATTACHMENT



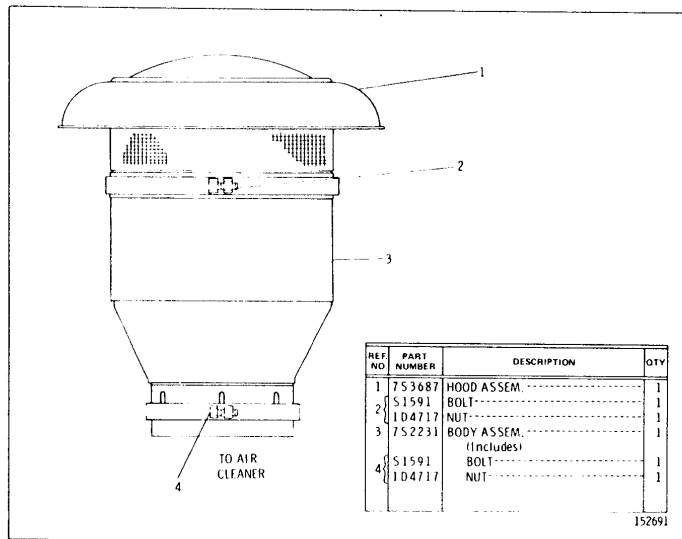
6N8957 DUST EJECTOR GROUP
Refer to 6N555 Chart shown on Page 94 for usage
AN ATTACHMENT



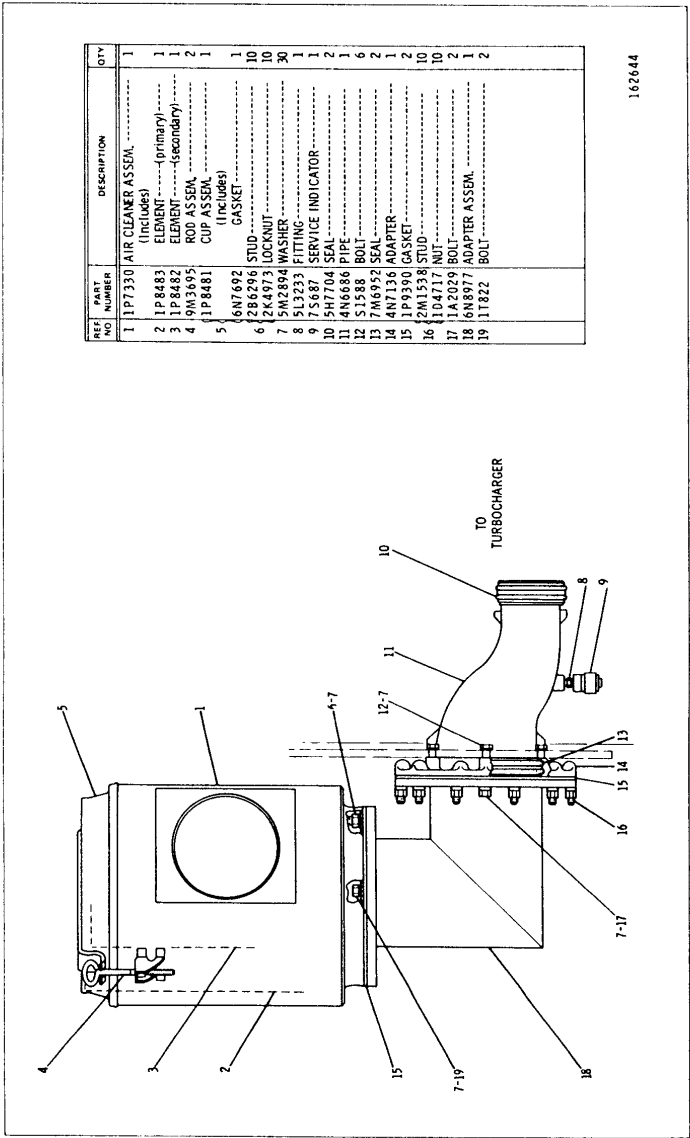
6N8956 DUST EJECTOR GROUP
Refer to Chart shown on Page 94 for usage
AN ATTACHMENT



2S5651 PRE-CLEANER ASSEMBLY
FOR USE WITH 4N5498 AIR CLEANER ADAPTER GROUP SHOWN ON PAGE 90
AN ATTACHMENT

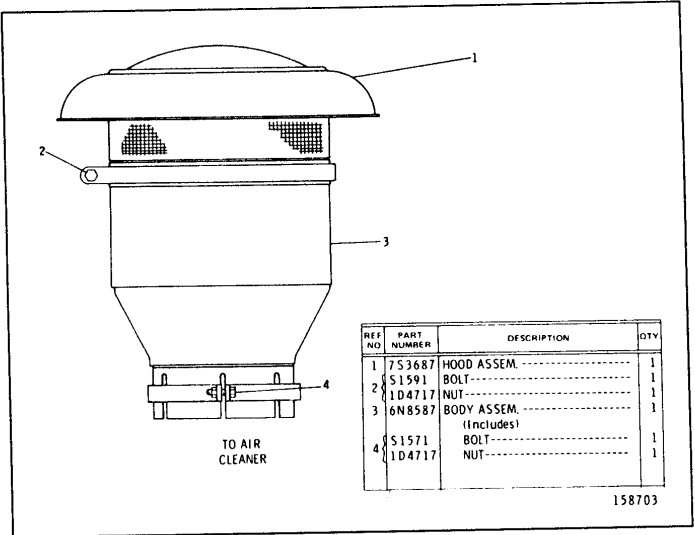


4N7133 PRE-CLEANER GROUP
Replaced by 6N8588 shown on Page 95-2
AN ATTACHMENT

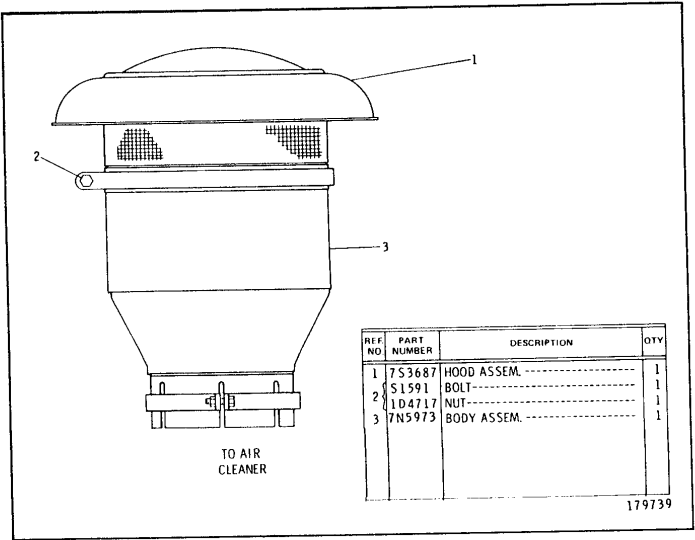


6N8958 AIR CLEANER GROUP—Heavy Duty
Refer to Chart shown on Page 94 for usage
AN ATTACHMENT

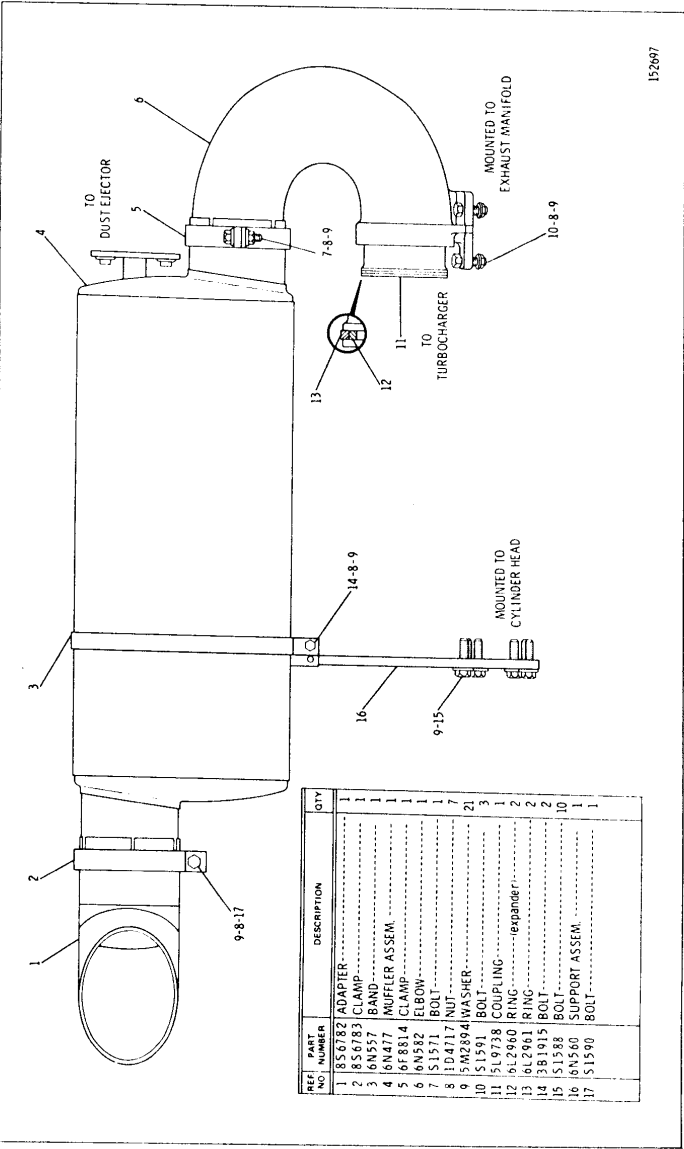
162644



6N8588 PRE-CLEANER GROUP
Refer to 6N555 Chart shown on Page 94 for usage
AN ATTACHMENT



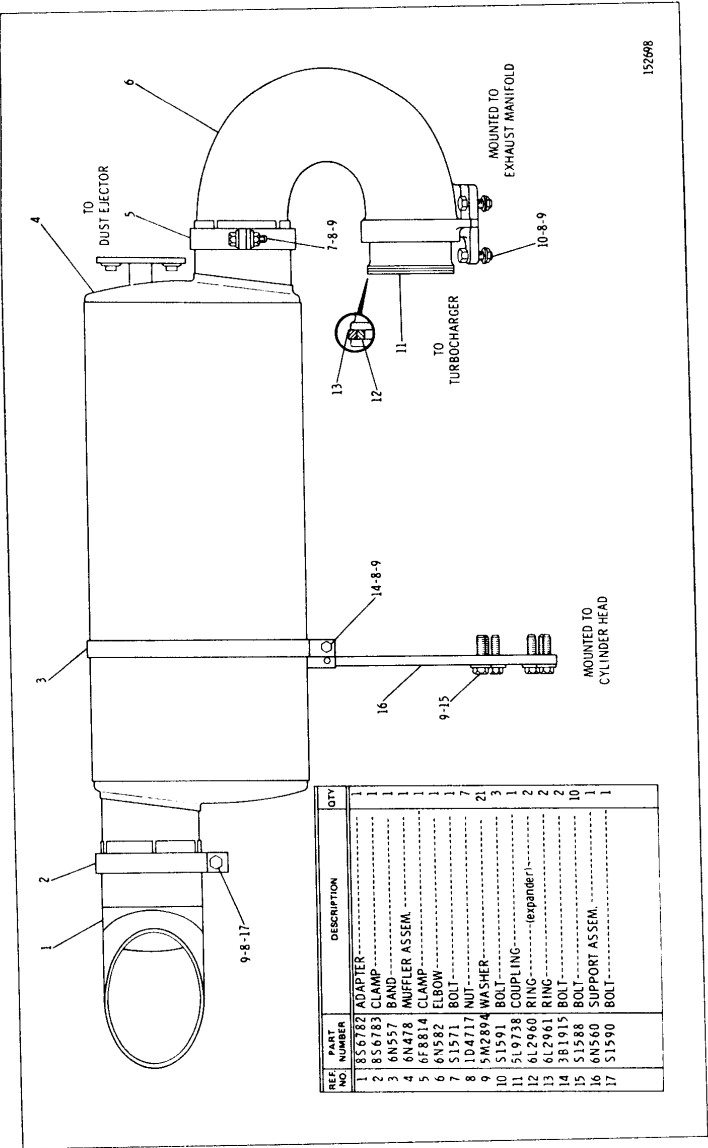
7N5974 PRE-CLEANER GROUP
AN ATTACHMENT



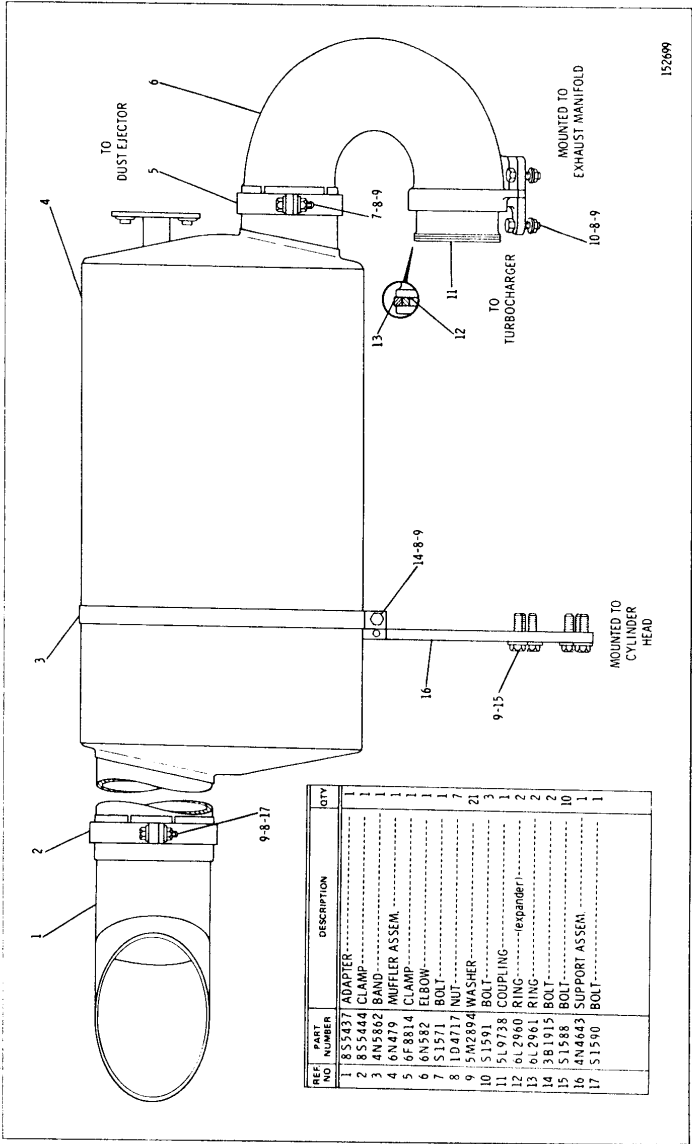
6N553 MUFFLER GROUP
Refer to 6N555 Chart shown on Page 94 for usage
AN ATTACHMENT

152697

6N554 MUFFLER GROUP
Refer to 6N555 Chart shown on Page 94 for usage
AN ATTACHMENT



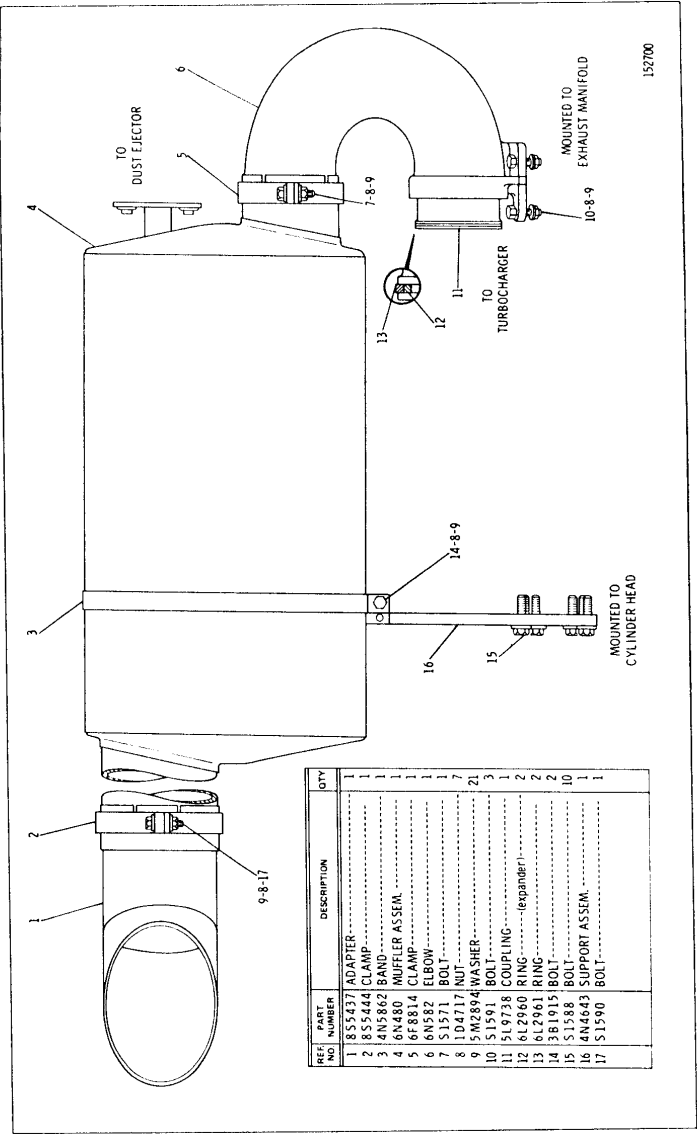
152968



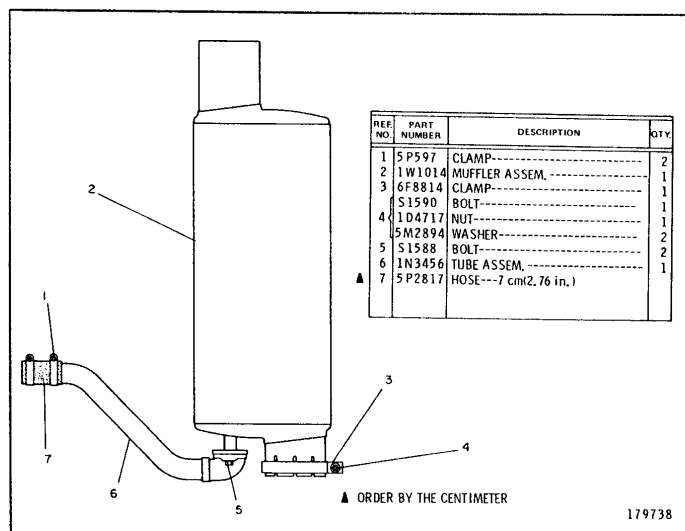
6N556 MUFFLER GROUP
Refer to 6N555 Chart shown on Page 94 for usage
AN ATTACHMENT

152699

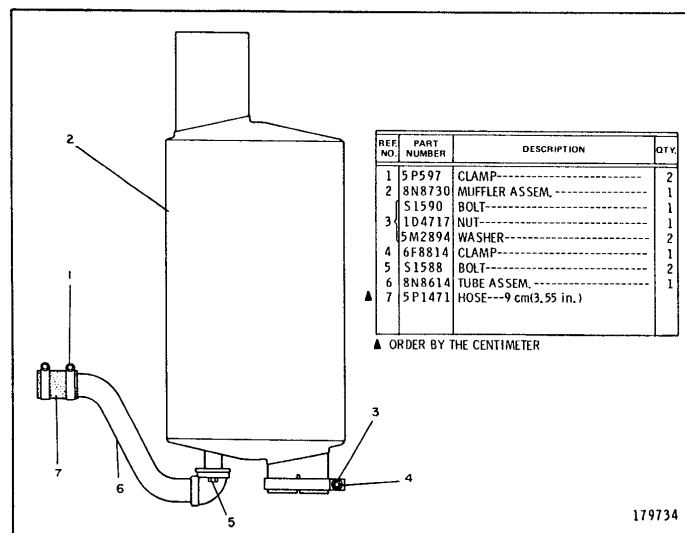
6N566 MUFFLER GROUP
Refer to 6N555 Chart shown on Page 94 for usage
AN ATTACHMENT



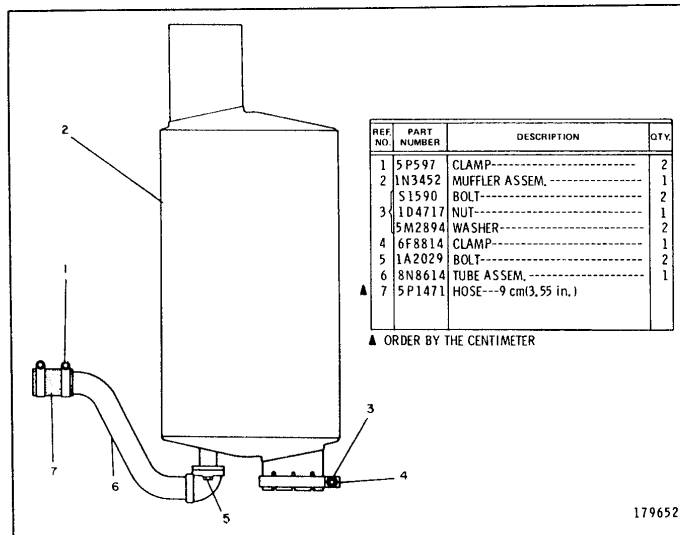
152700



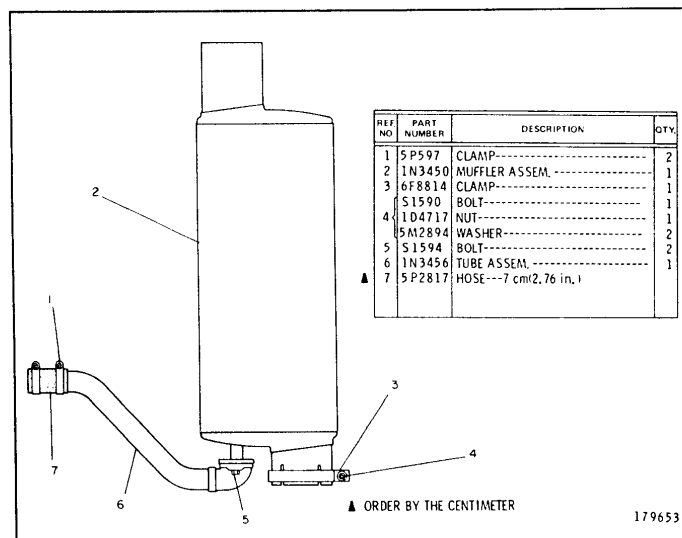
1W1075 MUFFLER GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



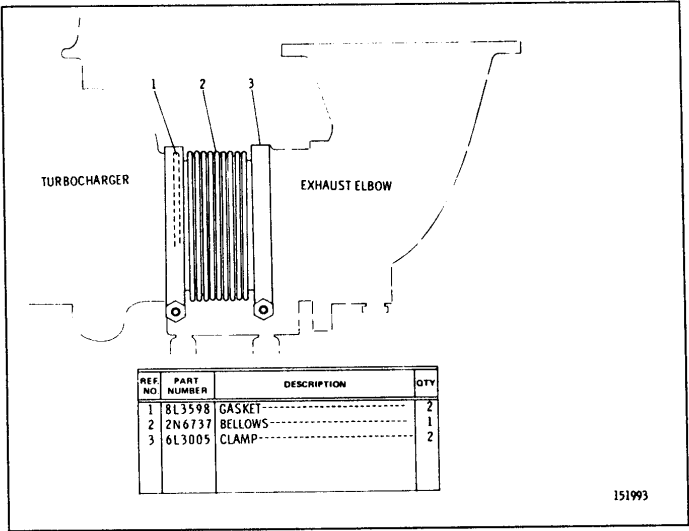
8N8740 MUFFLER GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



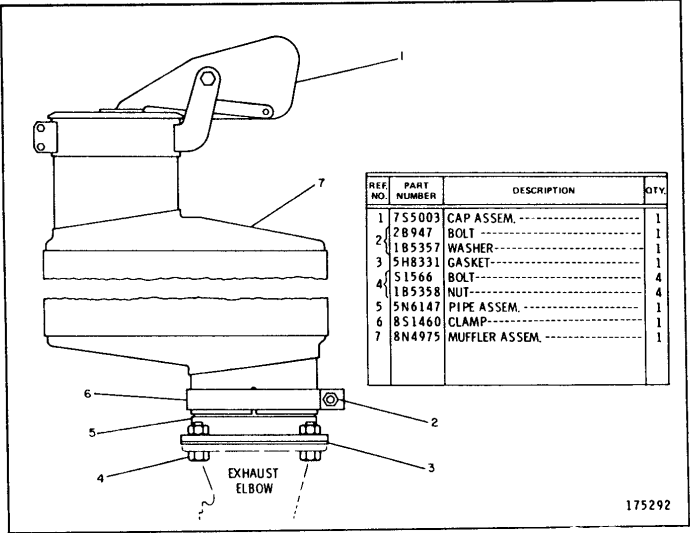
1N3447 MUFFLER GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



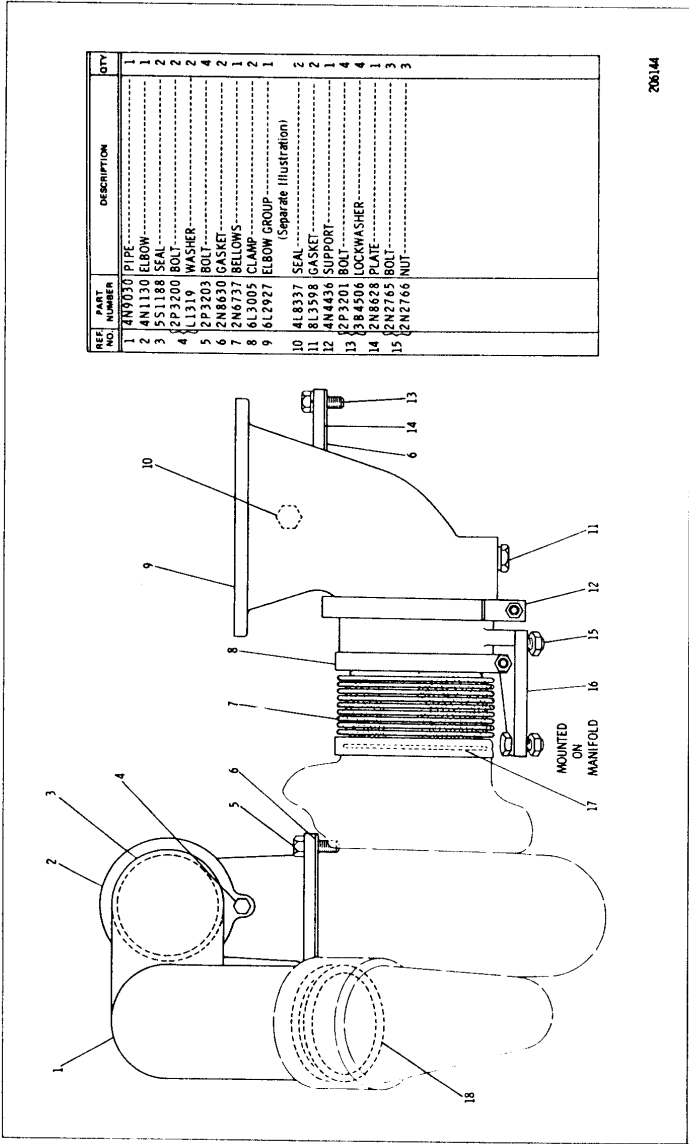
1N3449 MUFFLER GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



9N930 AIR LINES GROUP
AN ATTACHMENT



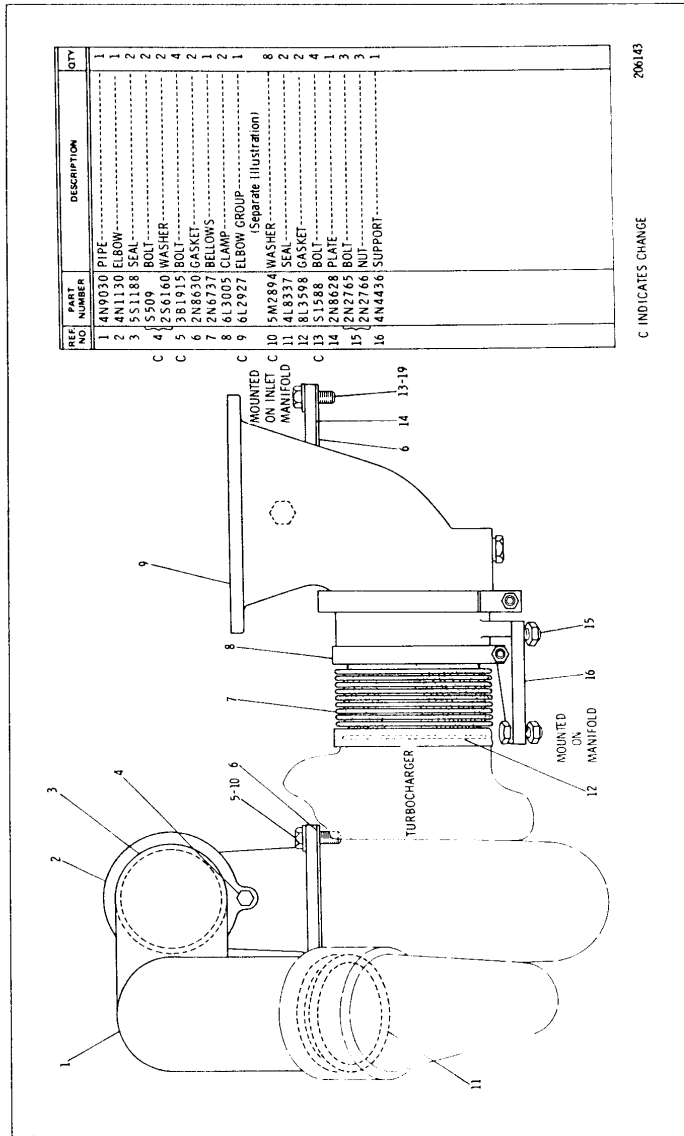
5N6148 EXHAUST MUFFLER GROUP
FOR USE WITH PACKAGE GENERATOR SET WITH AN ENCLOSURE
AN ATTACHMENT



20614

4N875 AIR LINES GROUP
Serial No. 90U1 to 90U396 inclusive. Part of 4N2238 Basic Engine Arrangement listed on
Pages 15 and 15B. 6L2927 Elbow parts are shown on Page 101. Only separate parts serviced

4N875 AIR LINES GROUP
Serial No. 90U397—Up. Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B
6L2927 Elbow parts are shown on Page 101. Only separate parts serviced



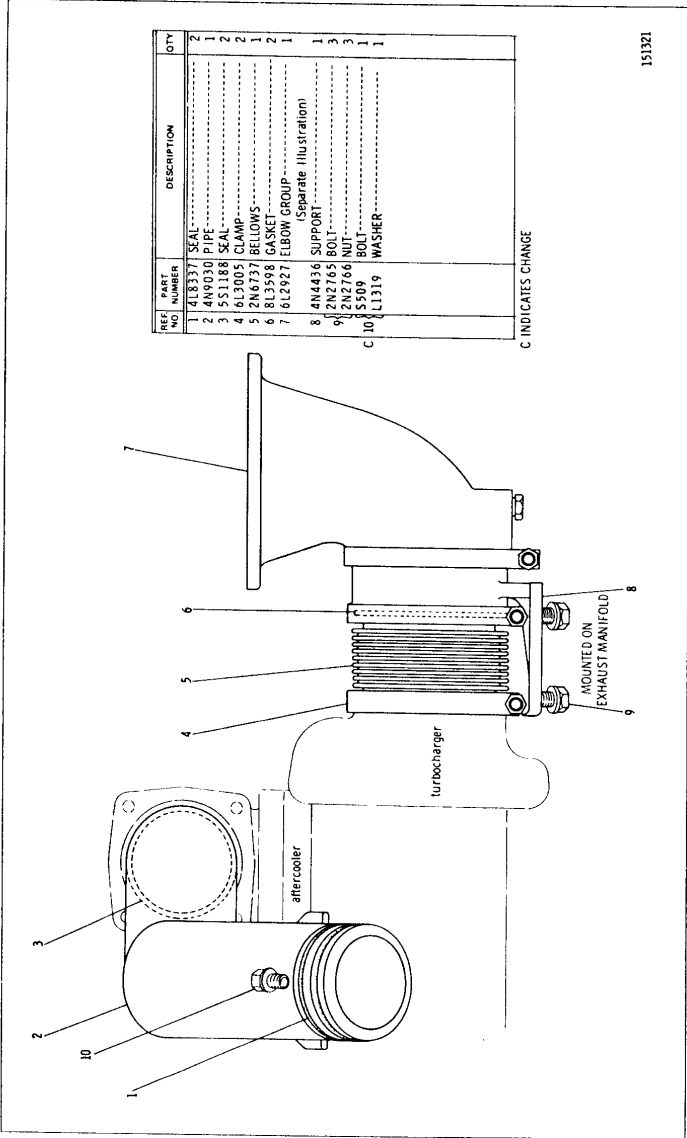
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	4N9030	PIPE	1
2	4N1130	ELBOW	1
3	5S1188	SEAL	2
4	5S509	BOLT	2
5	2S6160	WASHER	2
6	2N8630	GASKET	2
7	2N6737	BELLOWS	1
8	6L3005	CLAMP	2
9	6L2927	ELBOW GROUP	1
10	5M2894	WASHER (Separate Illustration)	8
11	4L8337	SEAL	2
12	8L3598	GASKET	2
13	5L588	BOLT	4
14	2N8628	PLATE	1
15	2N2765	NUT	3
16	4N4436	SUPPORT	1

C INDICATES CHANGE

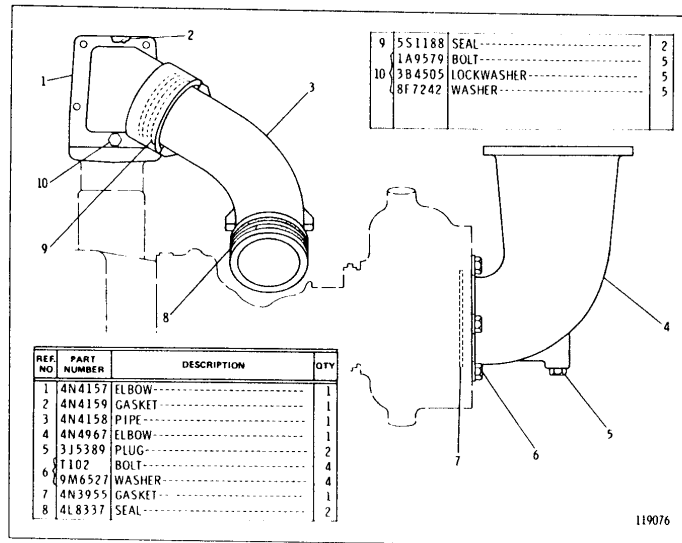
206143

1

4N4216 AIR LINES GROUP
Part of 4N4238, 6N458 and 6N459 Engine Procurement Arrangements listed on Pages 13 and 16B
6L2927 Elbow parts are shown on Page 101

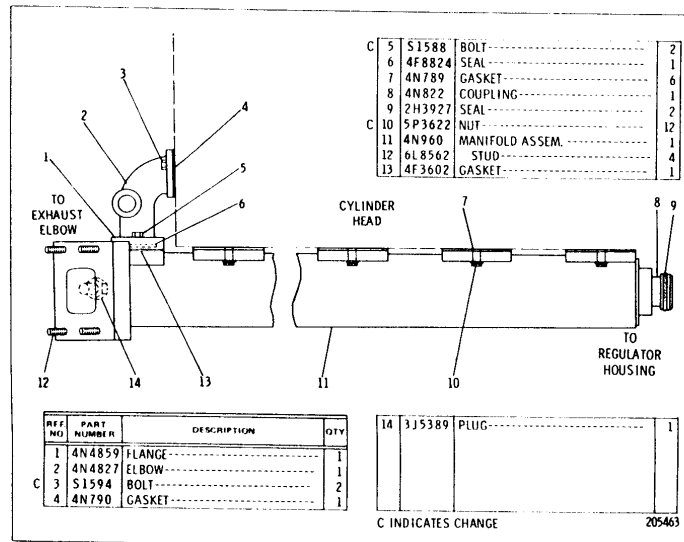


151321



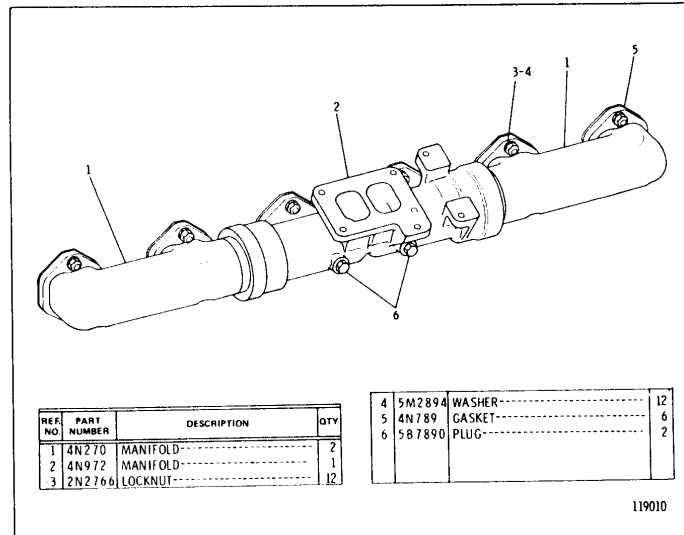
4N4078 AIR LINES GROUP

Part of 4N6191 Engine Procurement Arrangement listed on Page 16

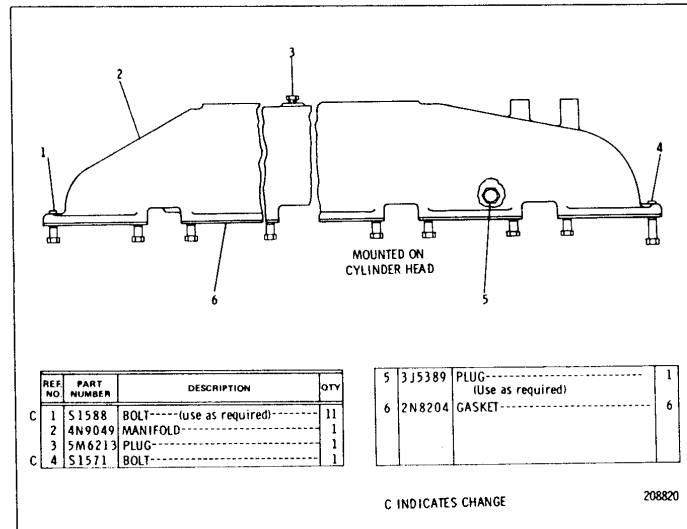


4N691 EXHAUST MANIFOLD GROUP—Watercooled

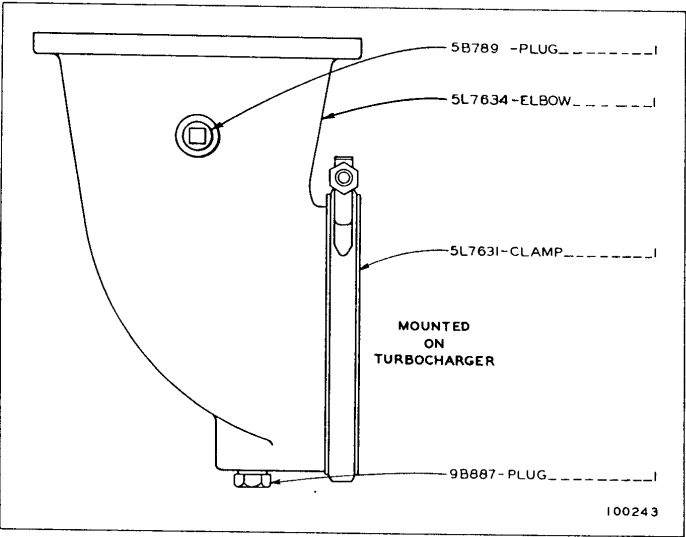
Part of 4N6191 Engine Procurement Arrangement listed on Page 16



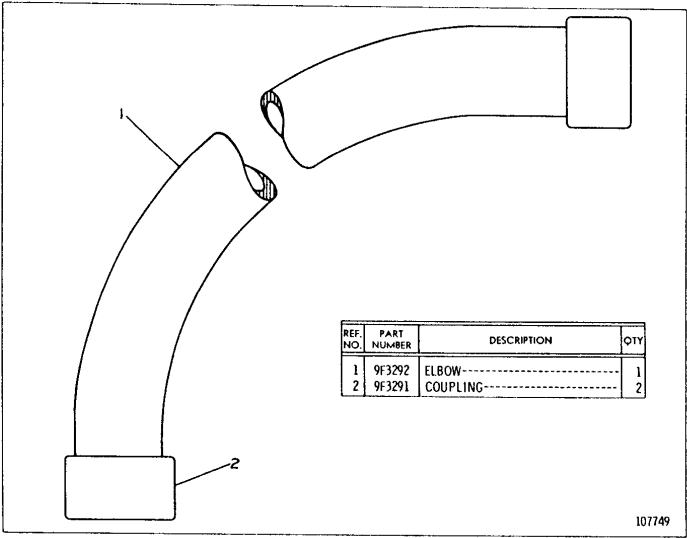
4N754 EXHAUST MANIFOLD GROUP
 Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B
 Note: 9S7148 Rain Cap Assembly is available



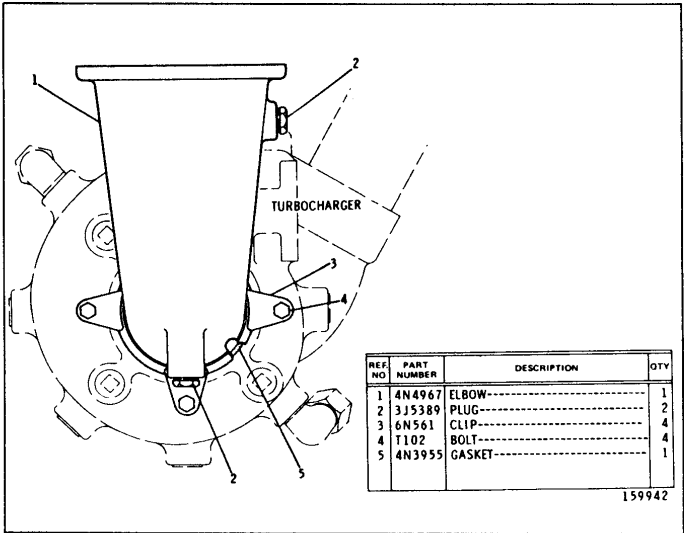
4N9052 INLET MANIFOLD GROUP
 Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B



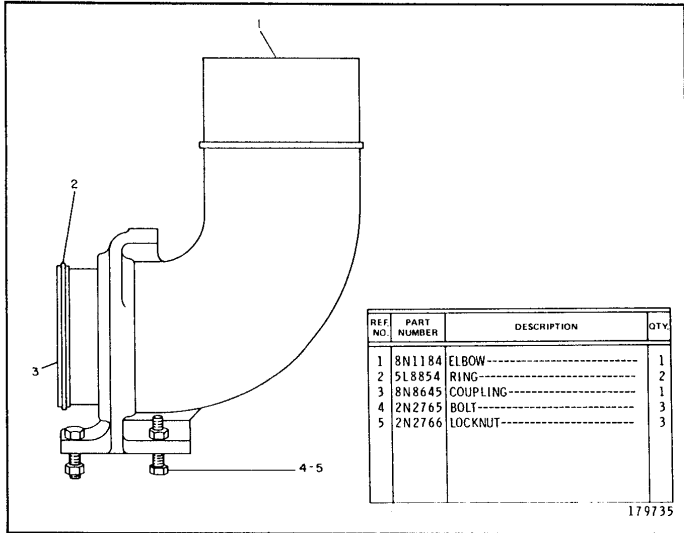
5L7661 EXHAUST ELBOW GROUP—5"
Note: 3L2998 Rain Cap is available
AN ATTACHMENT



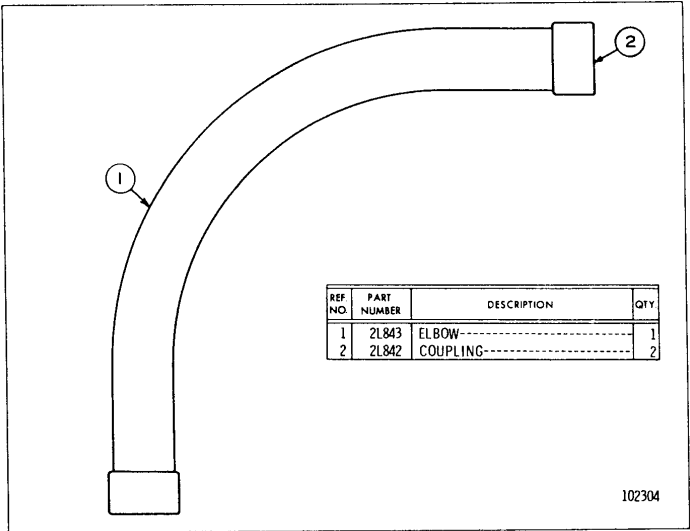
2N1273 EXHAUST ELBOW GROUP—5"
AN ATTACHMENT



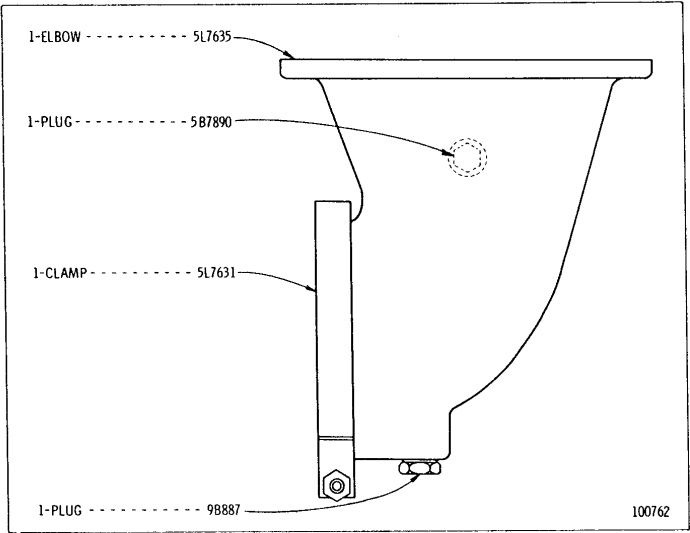
6N6093 EXHAUST ELBOW GROUP
FOR USE WITH WATERCOOLED TURBOCHARGER. AN ATTACHMENT



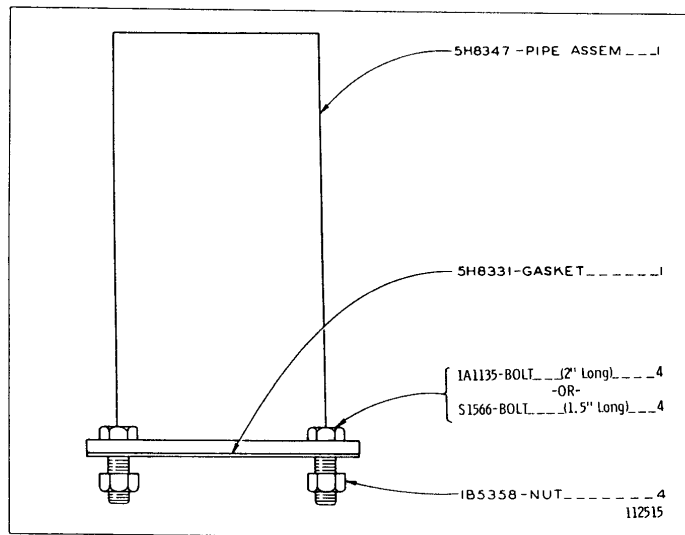
8N9710 EXHAUST ELBOW GROUP
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



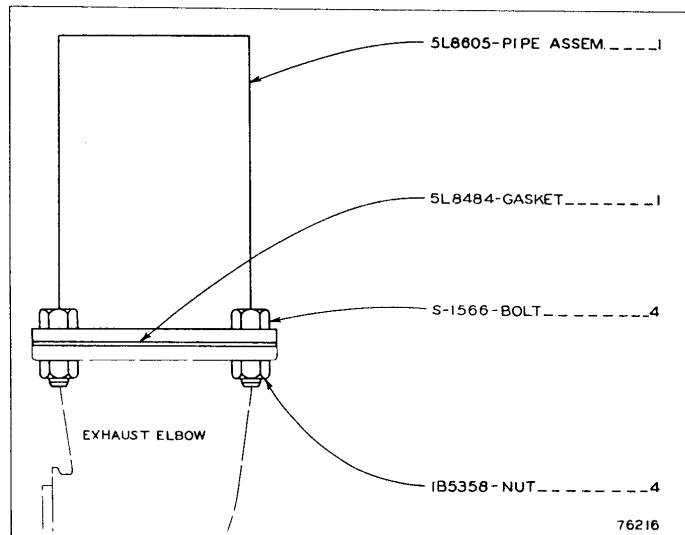
7L447 EXHAUST ELBOW GROUP—6"
AN ATTACHMENT



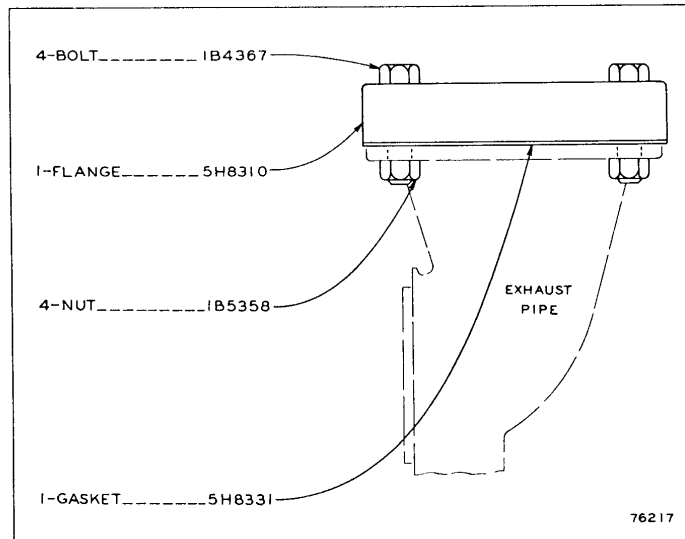
6L2927 EXHAUST ELBOW GROUP—6"
Part of 4N4216 Air Lines Group shown on Page 97



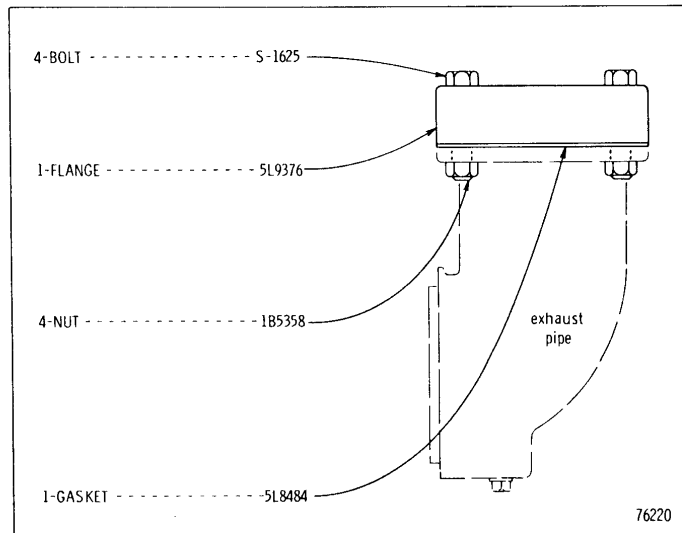
4L5801 EXHAUST PIPE GROUP—6"
AN ATTACHMENT
Only separate parts serviced



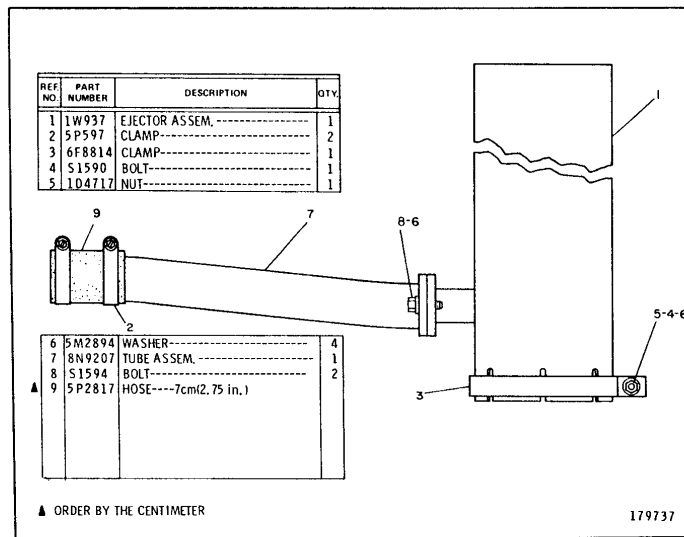
5L8632 EXHAUST PIPE GROUP—5"
AN ATTACHMENT



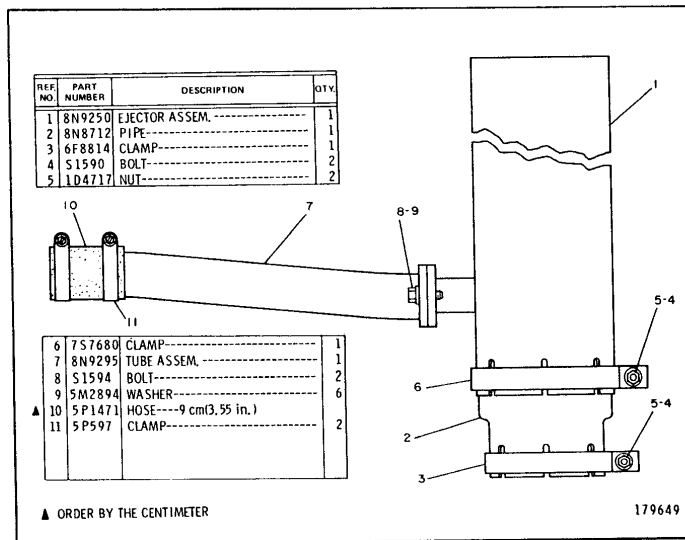
5L8601 EXHAUST FLANGE GROUP—6"
AN ATTACHMENT



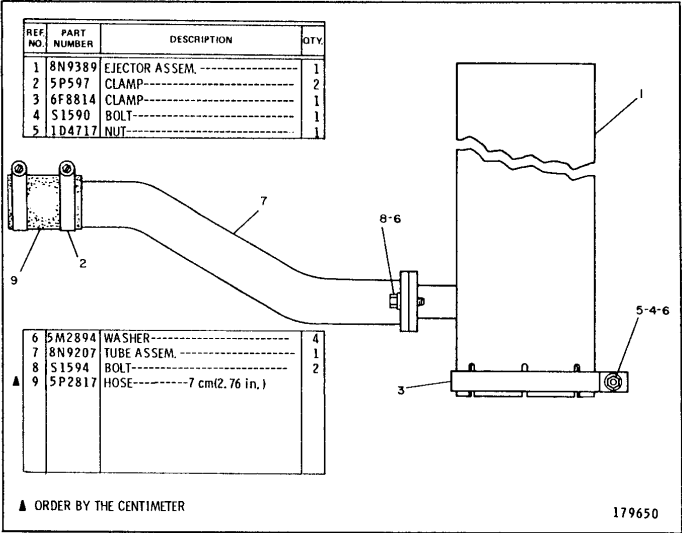
5L9377 EXHAUST FITTING GROUP—5"
AN ATTACHMENT



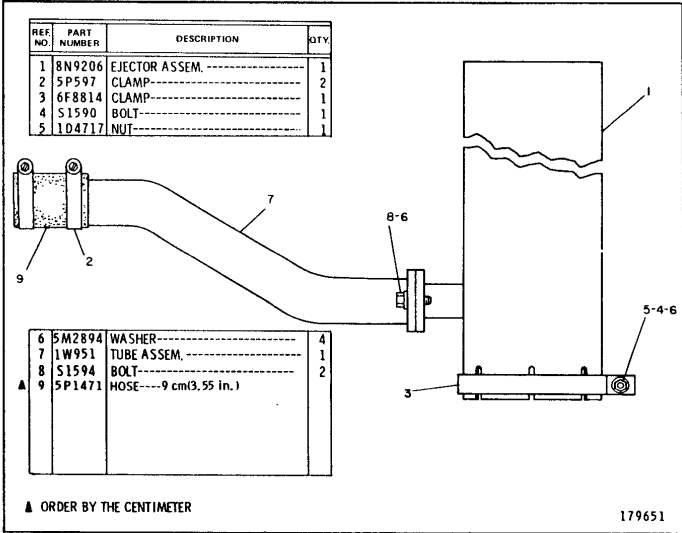
1W938 EXHAUST PIPE GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



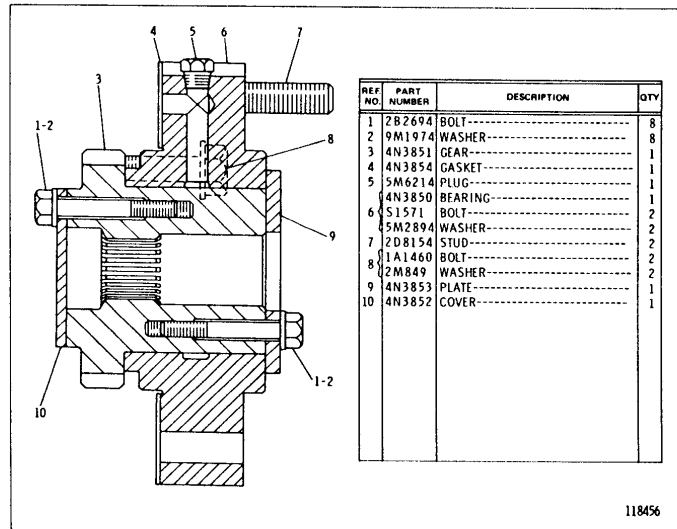
1N3117 EXHAUST PIPE GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



1N3122 EXHAUST PIPE GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT

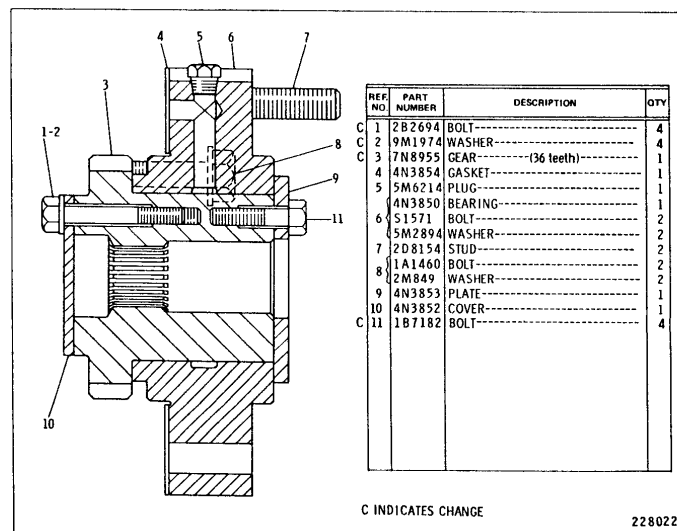


1N3123 EXHAUST PIPE GROUP—With Dust Ejector
NOT FOR USE WITH WATERCOOLED MANIFOLDS. AN ATTACHMENT



118456

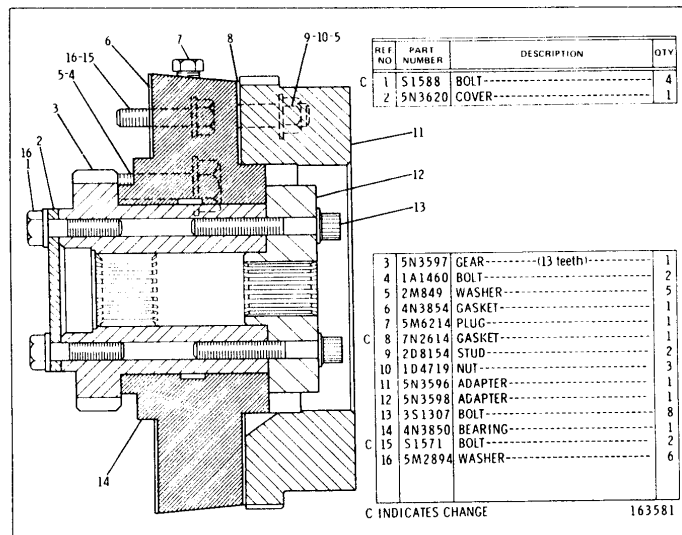
4N2264 ACCESSORY DRIVE GROUP—Type 1
AN ATTACHMENT



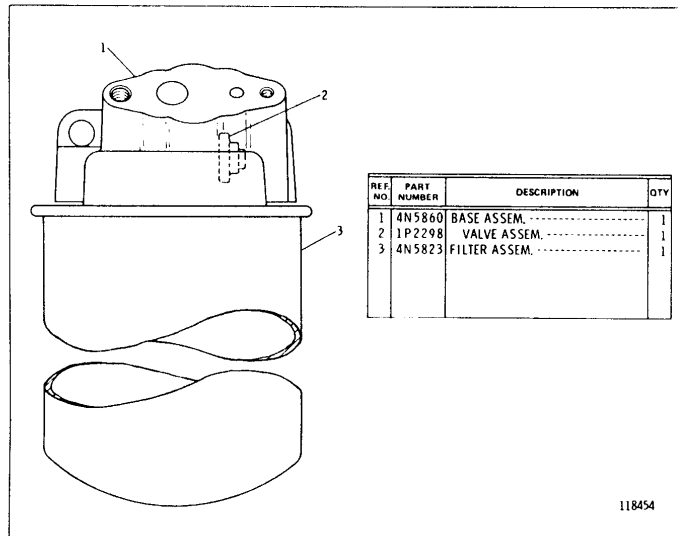
C INDICATES CHANGE

228022

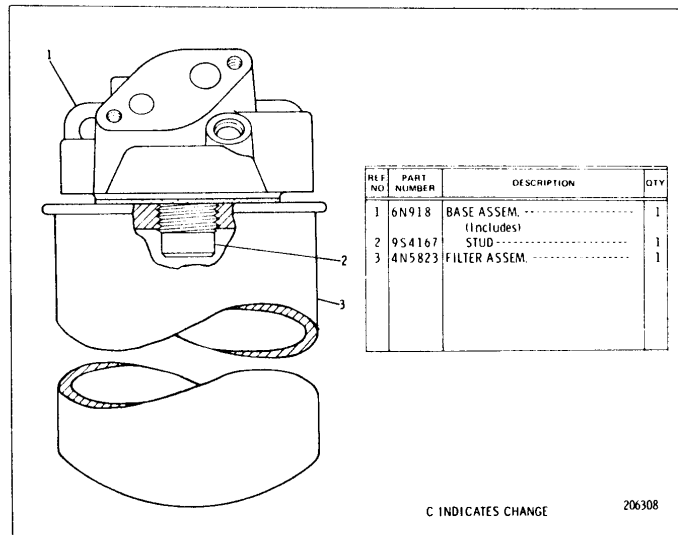
4N2264 ACCESSORY DRIVE GROUP—Type 2
AN ATTACHMENT



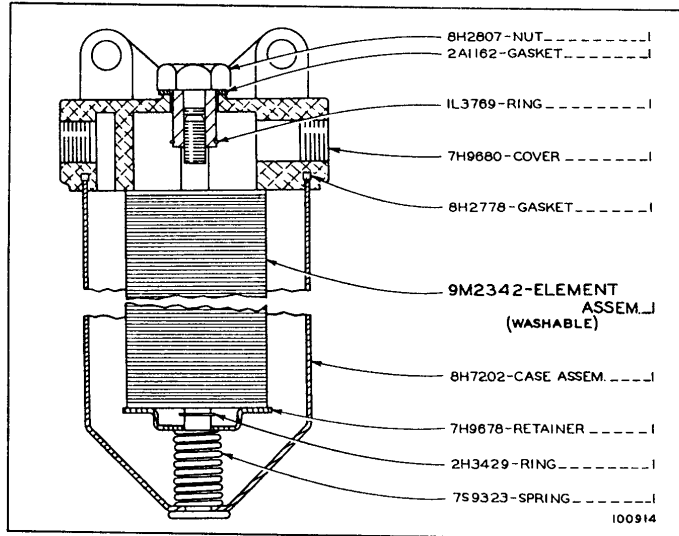
5N3621 ACCESSORY DRIVE GROUP
AN ATTACHMENT



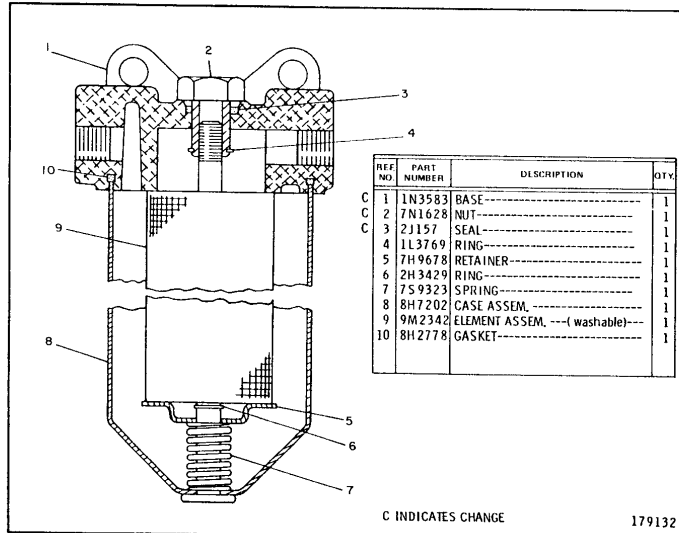
4N1981 FUEL FILTER GROUP
 Serial No. 90U1 to 90U388 inclusive. Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B



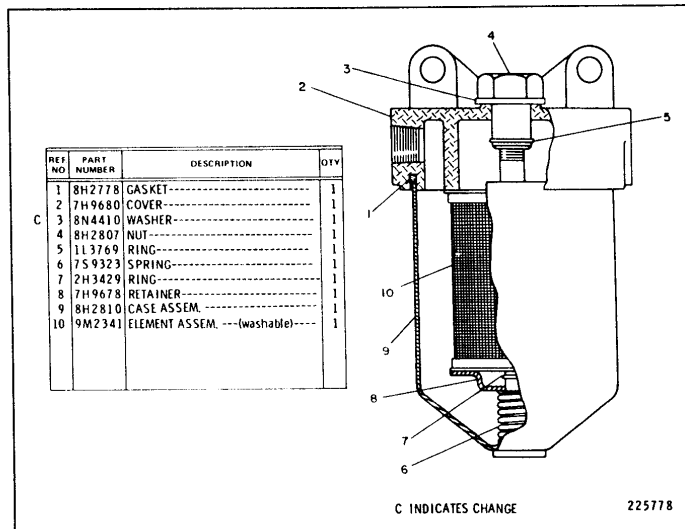
4N1981 FUEL FILTER GROUP
 Serial No. 90U389—Up
 Part of 4N2238 Basic Engine Arrangement listed on Page 15B



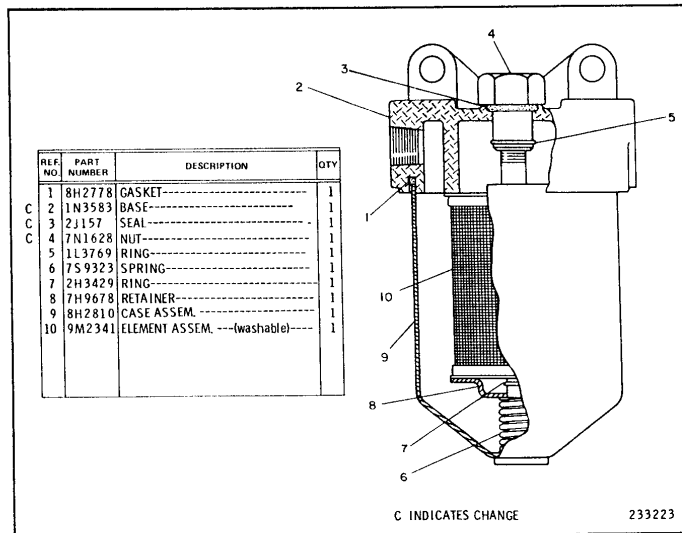
8H7204 PRIMARY FUEL FILTER GROUP—Type 1
FOR USE WITH 4N5349 MOUNTING GROUP. AN ATTACHMENT



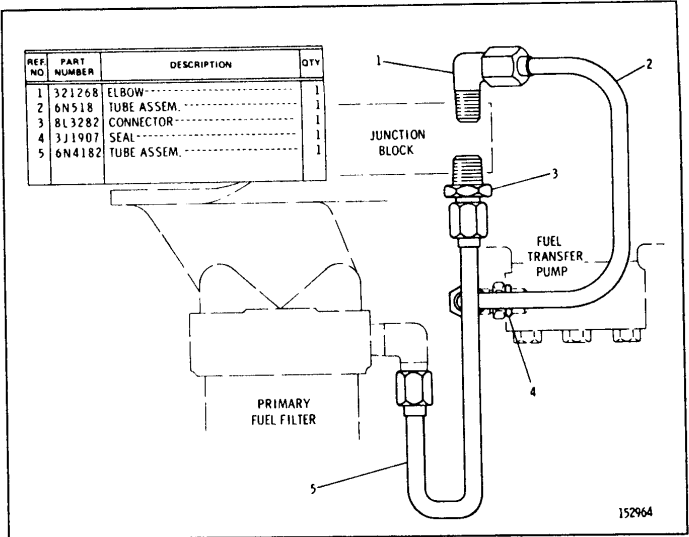
8H7204 PRIMARY FUEL FILTER GROUP—Type 2
FOR USE WITH 4N5349 MOUNTING GROUP
AN ATTACHMENT



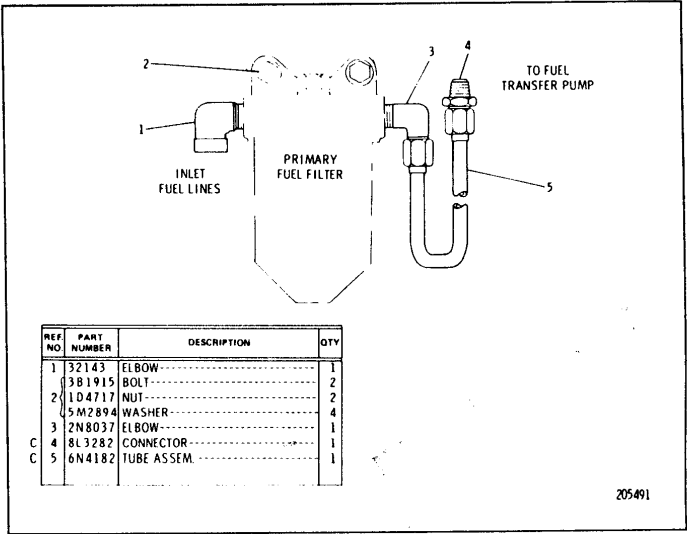
8H4681 PRIMARY FUEL FILTER GROUP—Type 1
FOR USE WITH 4N5349 MOUNTING GROUP. AN ATTACHMENT



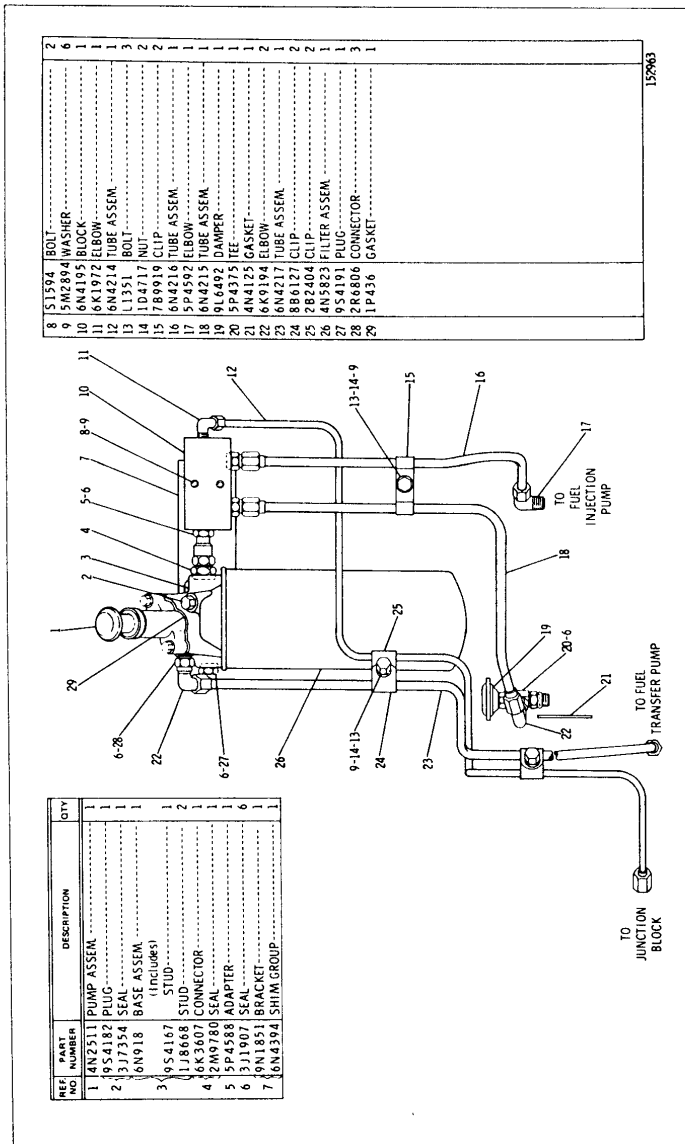
8H4681 PRIMARY FUEL FILTER GROUP—Type 2
FOR USE WITH 4N5349 MOUNTING GROUP. AN ATTACHMENT



6N3901 FUEL FILTER MOUNTING GROUP
Serial No. 90U1 to 90U388 Inclusive. AN ATTACHMENT

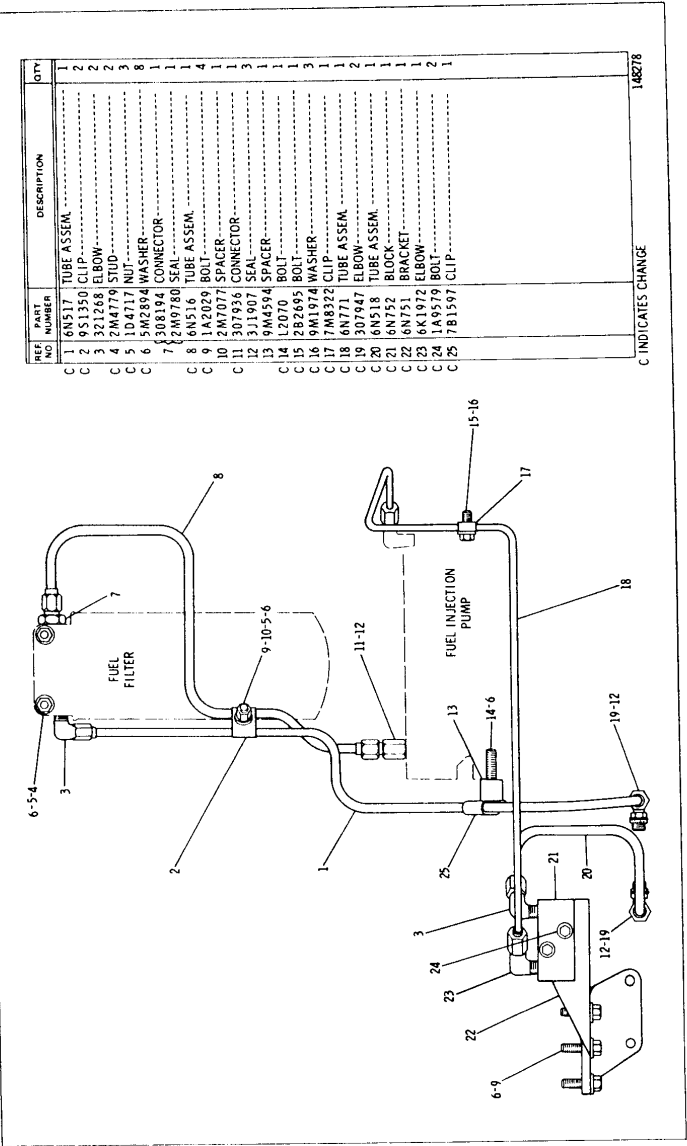


4N5349 FUEL FILTER LINES GROUP
FOR USE WITH 8H7204 PRIMARY FUEL FILTER GROUP. AN ATTACHMENT



6N4174 FUEL SYSTEM GROUP
Serial No. 90U1 to 90U388 inclusive. AN ATTACHMENT

4N4079 FUEL FILTER LINES GROUP
Serial No. 90U1 to 90U388 inclusive
Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B. Only separate parts serviced

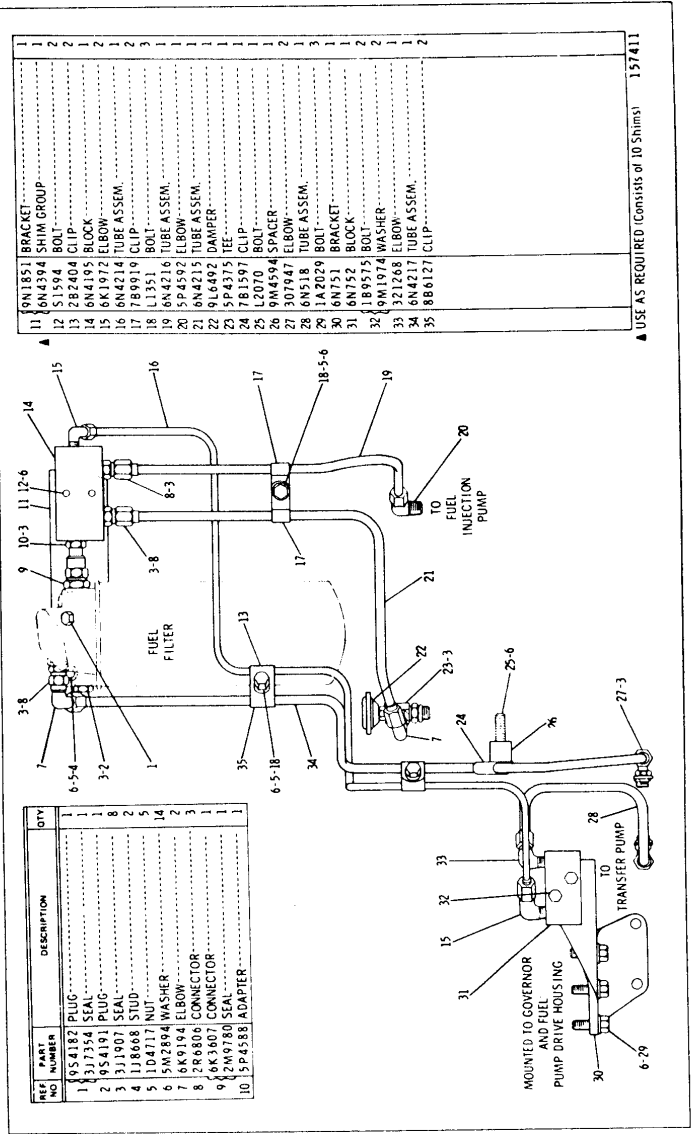


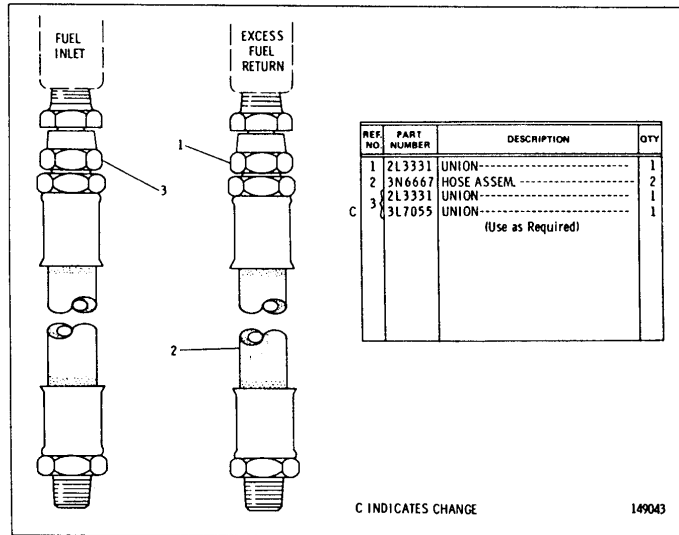
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
C 1	6N517	TUBE ASSEM.	1
C 2	9S1350	CLIP	2
C 3	321268	ELBOW	2
C 4	2M4779	STUD	2
C 5	104717	NUT	3
C 6	5M2894	WASHER	8
C 7	308194	CONNECTOR	1
C 8	2M9780	SEAL	1
C 9	1A2029	TUBE ASSEM.	4
C 10	2M7077	BOLT	1
C 11	307936	SPACER	1
C 12	311907	SEAL	1
C 13	9M6594	SPACER	1
C 14	12070	BOLT	1
C 15	282695	WASHER	1
C 16	1A1371	WASHER	3
C 17	7M4322	CLIP	1
C 18	6N721	TUBE ASSEM.	1
C 19	307947	ELBOW	2
C 20	6N518	TUBE ASSEM.	1
C 21	6N752	BLOCK	1
C 22	6N751	BRACKET	1
C 23	6K1972	ELBOW	1
C 24	1A9579	BOLT	2
C 25	7B1597	CLIP	1

C INDICATES CHANGE

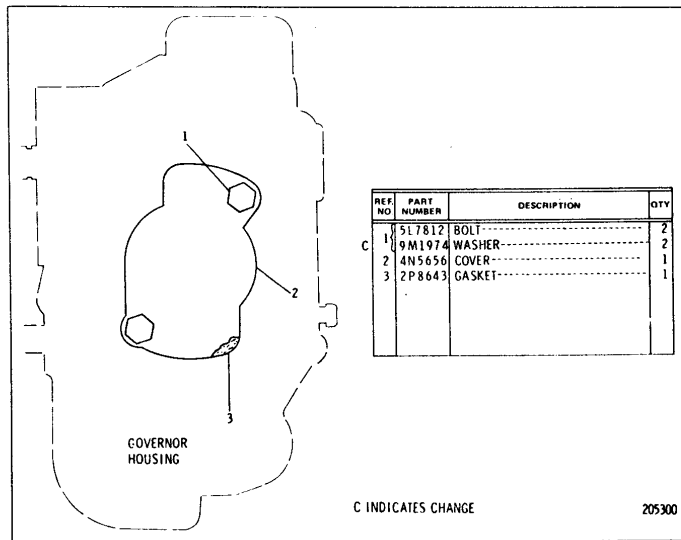
148278

6N2172 FUEL FILTER LINES GROUP
Serial No. 90U389—Up
Part of 4N2238 Basic Engine Arrangement listed on Page 15B. Only separate parts serviced

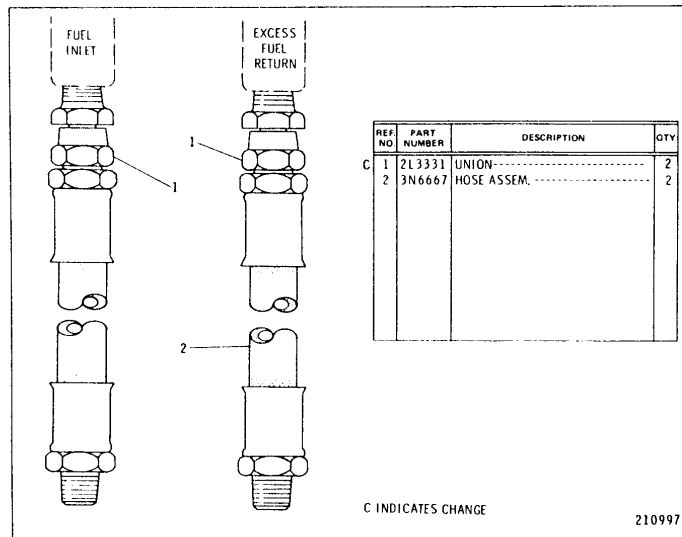




3N6668 FLEXIBLE FUEL OIL LINES GROUP—Type 1
AN ATTACHMENT

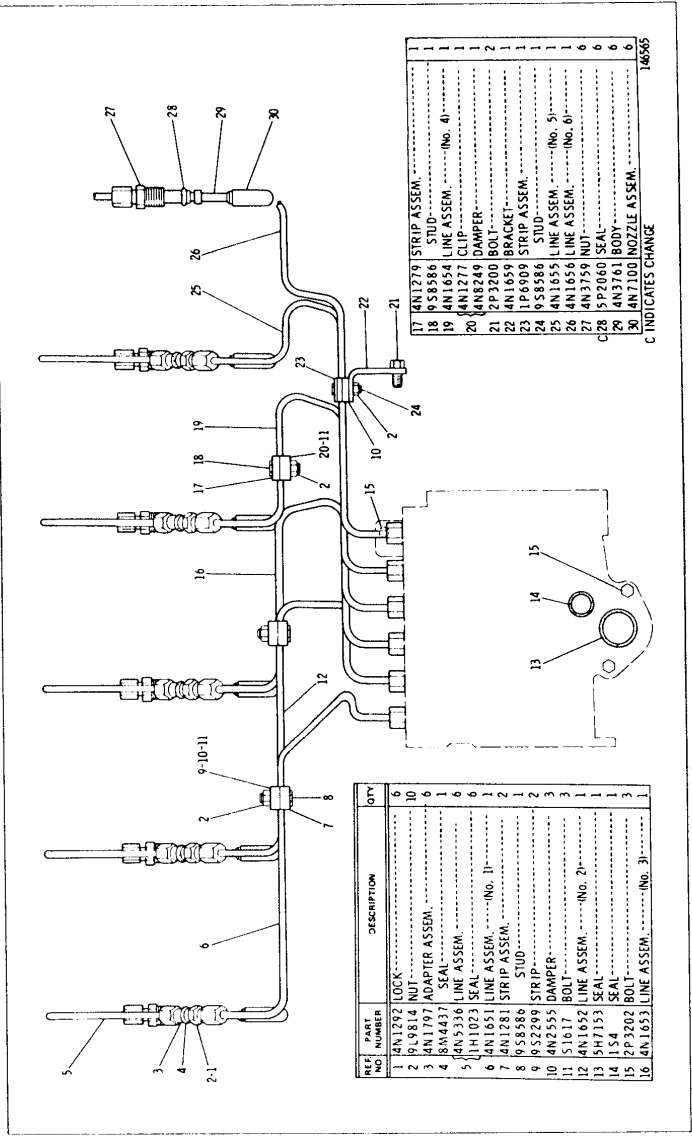


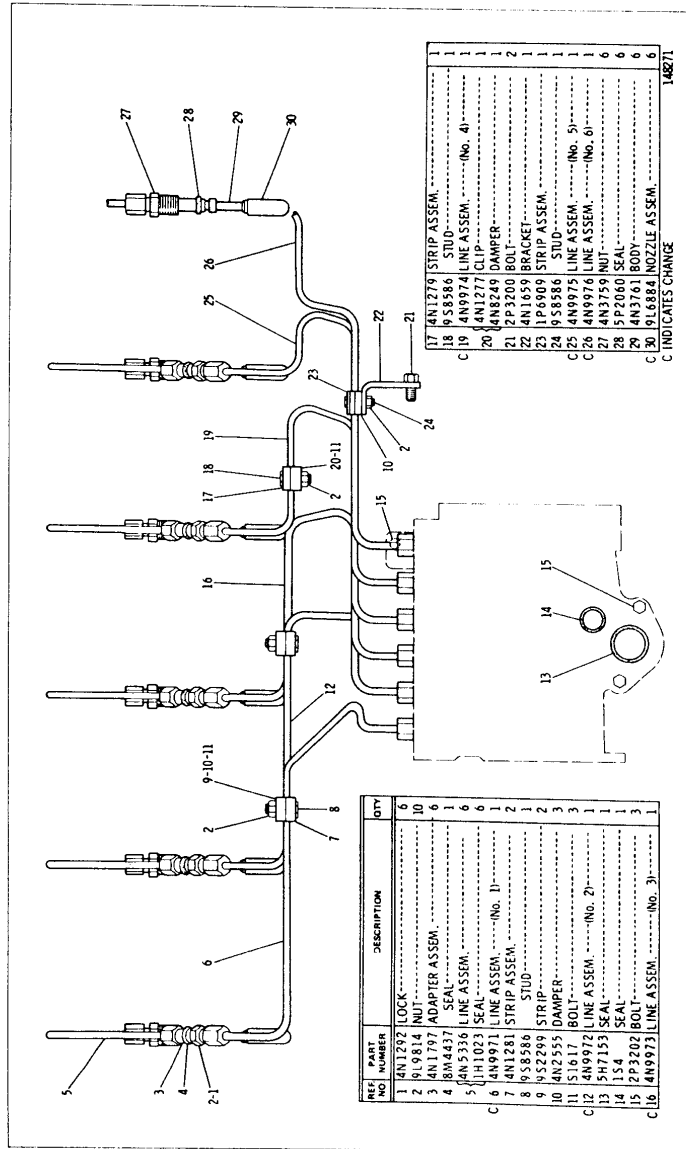
4N8048 FUEL SYSTEM COVER GROUP
Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B
Only separate parts serviced



3N6668 FLEXIBLE FUEL OIL LINES GROUP—Type 2
AN ATTACHMENT

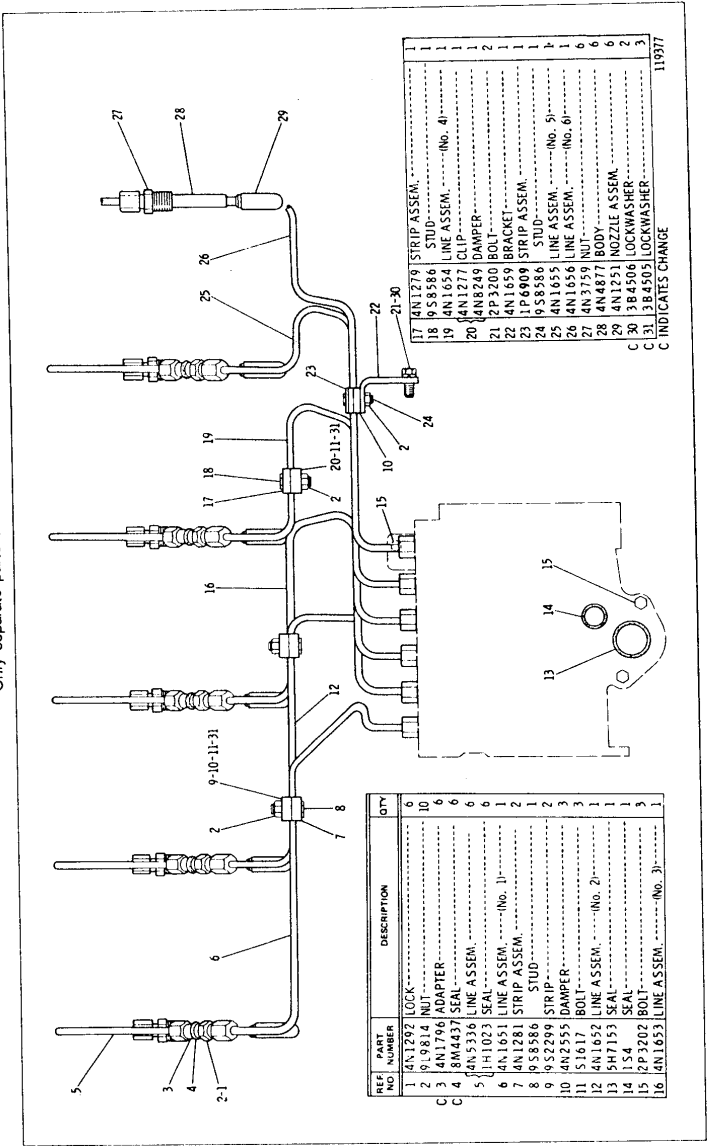
4N1661 FUEL INJECTION LINES GROUP
Serial No. 90U1 to 90U224 Inclusive
Part of 4N2238 Basic Engine Arrangement listed on Page 15
Only separate parts serviced

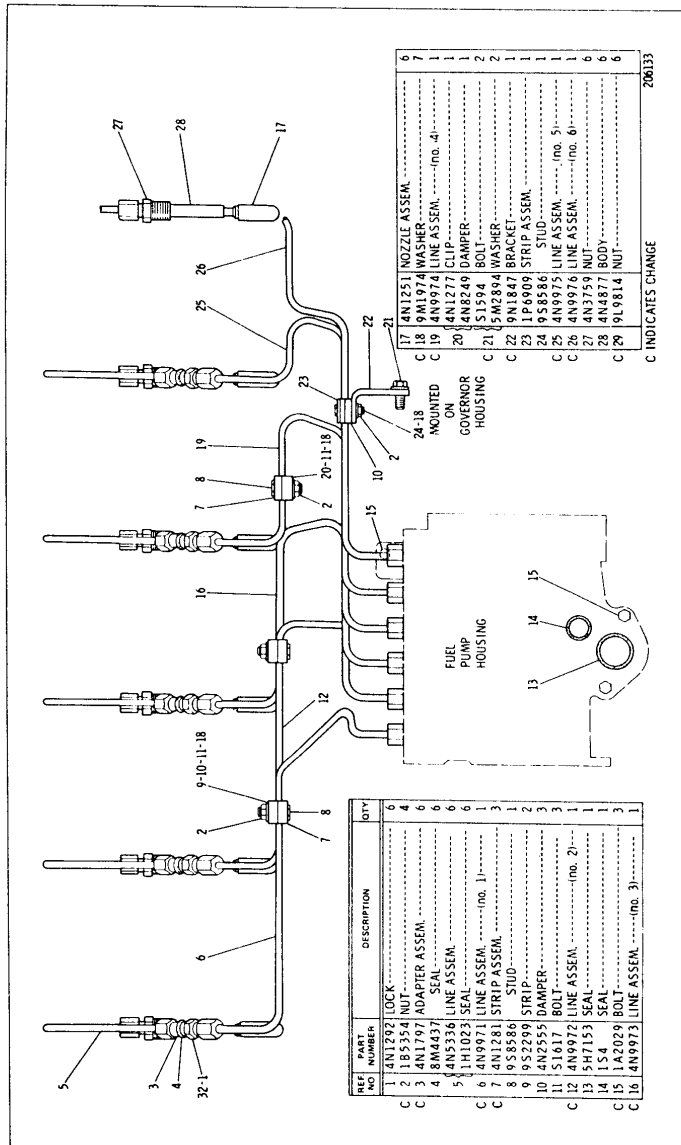




4N1661 FUEL INJECTION LINES GROUP
 Serial No. 900225-Up
 Part of 4N2238 Basic Engine Arrangement listed on Page 15
 Only separate parts serviced

Part of 4N4238, 4N6191, 6N460, 6N458 and 6N459 Engine Procurement Arrangements listed on Pages 13, 16, 16A and 16B
Serial No. 90U1 to 90U230 inclusive
Only separate parts serviced



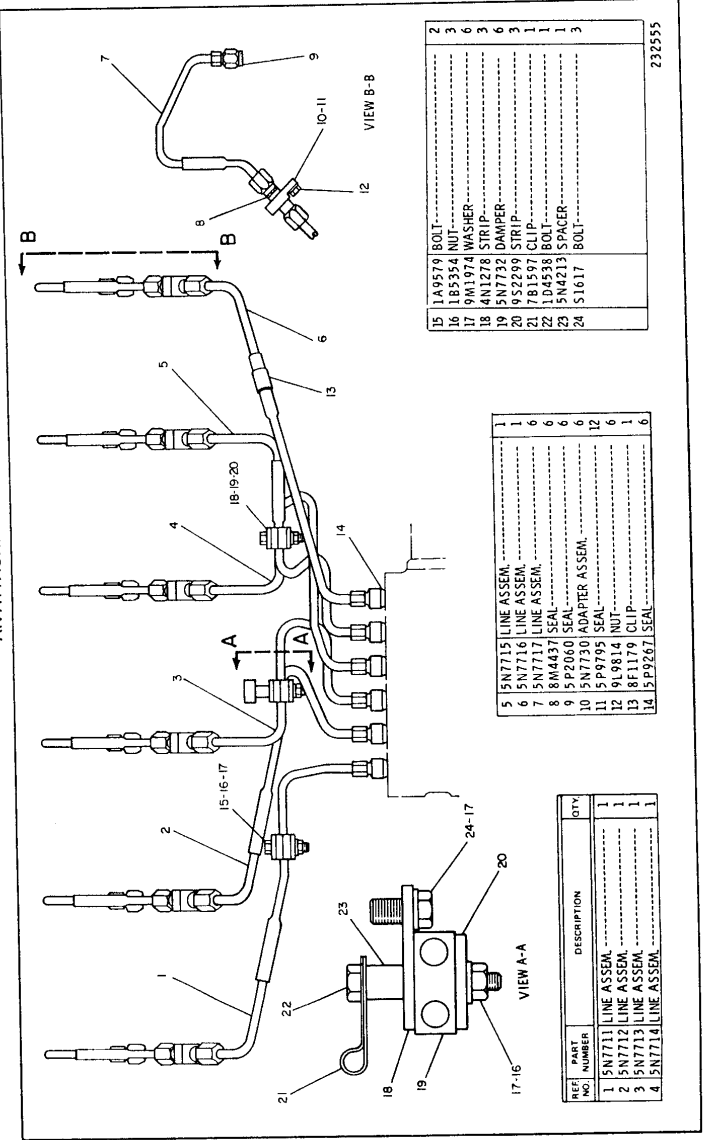


4N1662 FUEL INJECTION LINES GROUP

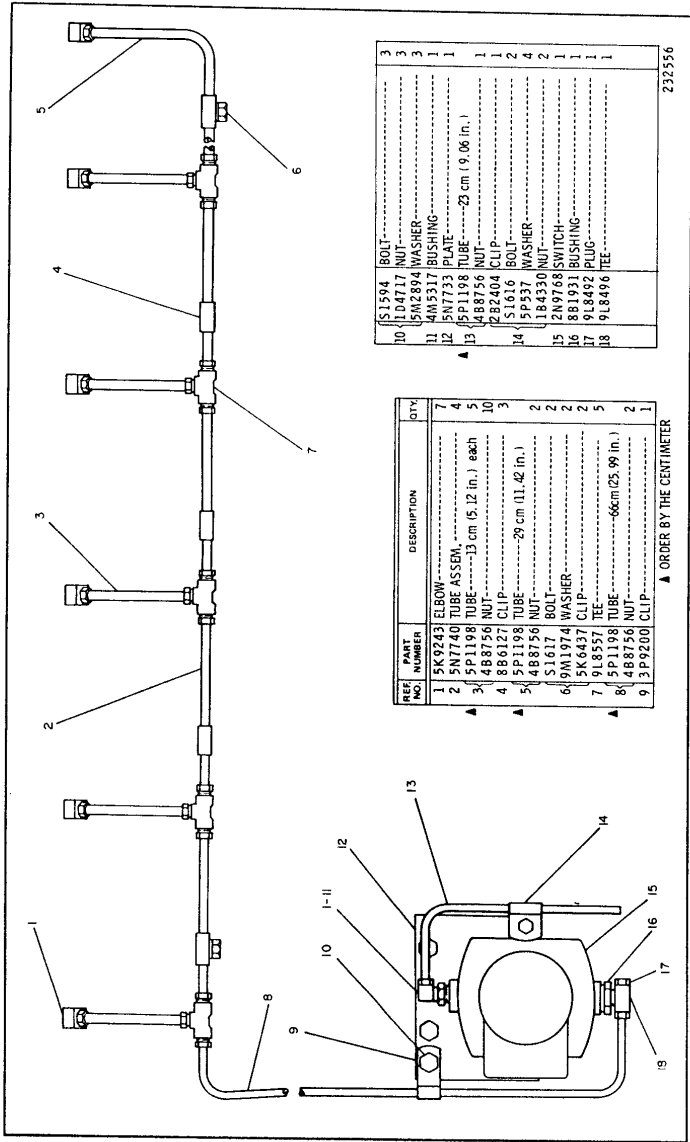
Serial No. 90U231—Up

Part of 4N4238, 4N6191, 6N460, 6N458 and 6N459 Engine Procurement Arrangements listed on Pages 13, 16, 16A and 16B
Only separate parts serviced

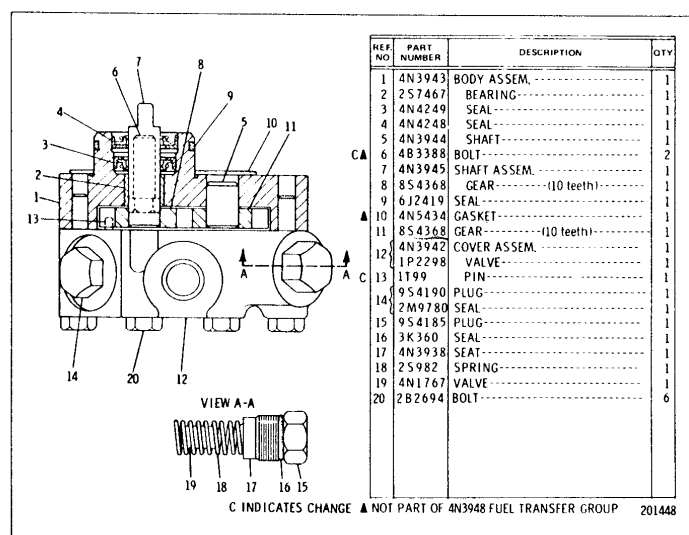
5N7710 FUEL INJECTION LINES GROUP
ONLY FOR USE WITH DIRECT INJECTION FUEL SYSTEM AND 5N7741 DRAIN LINE GROUP SHOWN ON PAGE 108B
AN ATTACHMENT



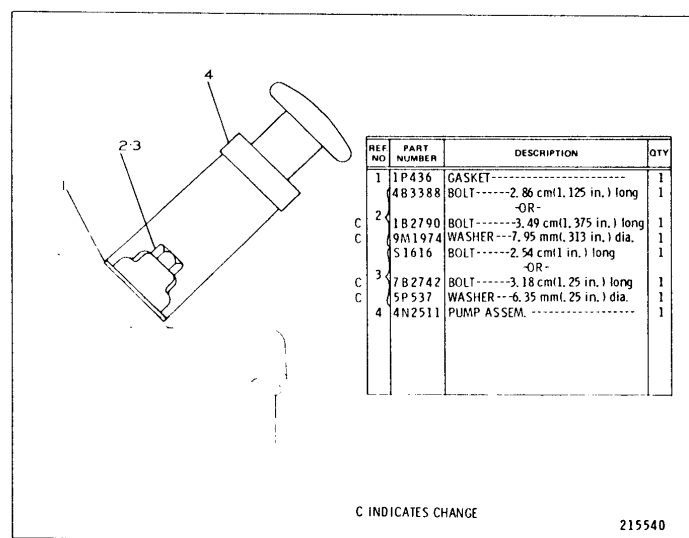
232555



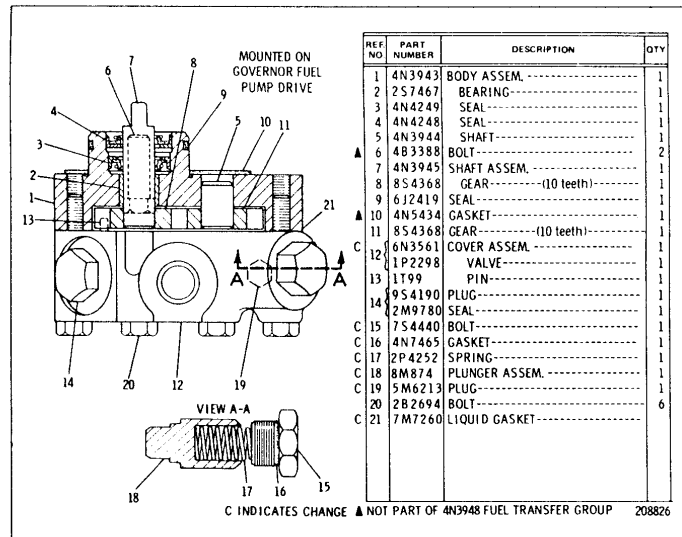
5N7741 FUEL DRAIN GROUP—Alarm Switch and Lines
ONLY FOR USE WITH DIRECT INJECTION FUEL SYSTEM AND 5N7710 FUEL INJECTION LINES GROUP SHOWN ON PAGE 108A
AN ATTACHMENT



4N3948 FUEL TRANSFER PUMP GROUP (4N3949 N/S)
Serial No. 90U1 to 90U299 inclusive



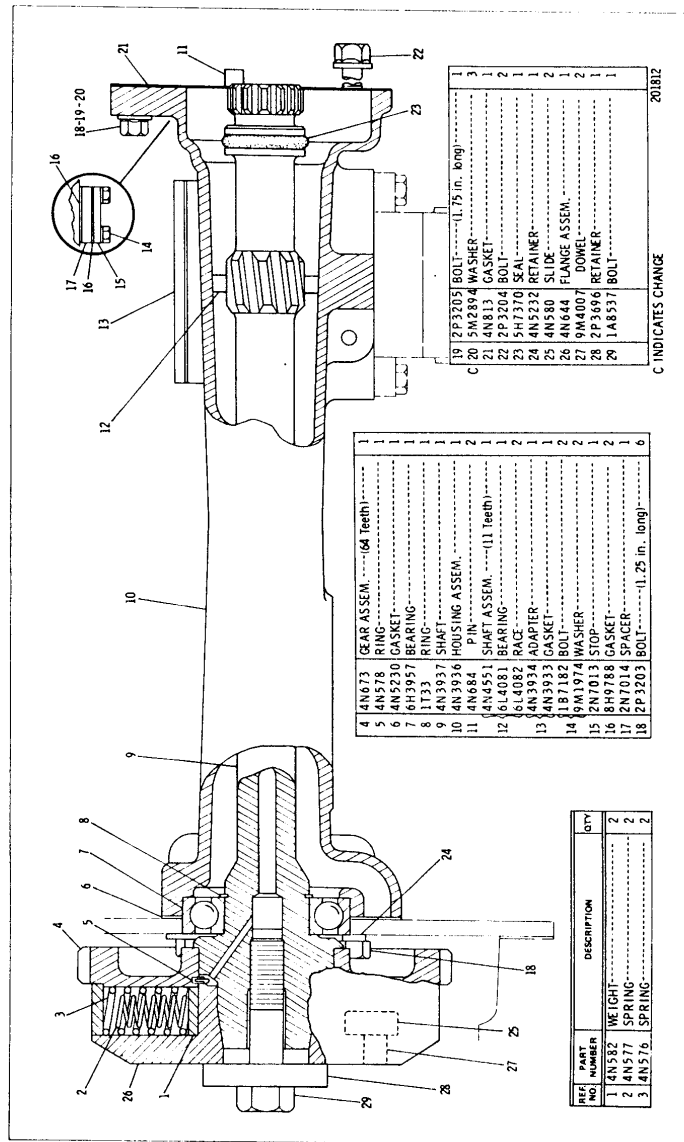
4N3287 FUEL PRIMING PUMP GROUP



4N3948 FUEL TRANSFER PUMP GROUP (4N3949 N/S)

Serial No. 90U300—Up

Part of 4N2238 Basic Engine Arrangement listed on Pages 15 and 15B



4N3950 GOVERNOR AND FUEL PUMP DRIVE GROUP

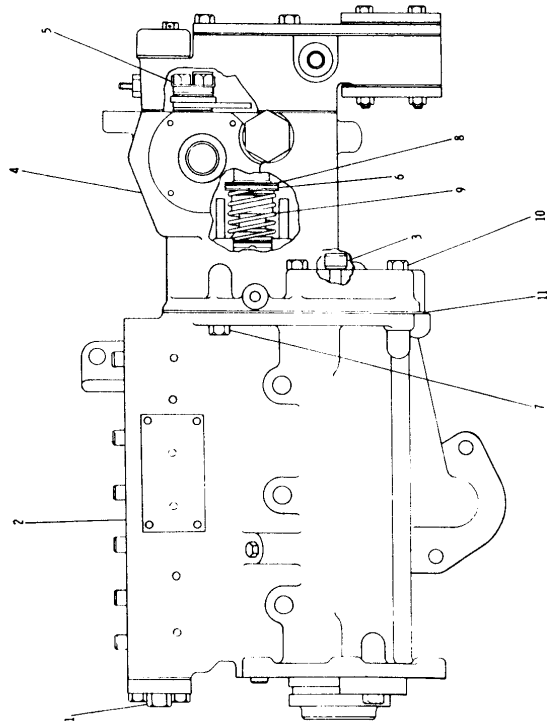
Serial No. 90U1 to 90U239 inclusive

Part of 4N2238 Basic Engine Arrangement listed on Page 15

Only separate parts serviced

4N8008 GOVERNOR AND FUEL PUMP GROUP DRIVE GROUP
Serial No. 90U240—Up

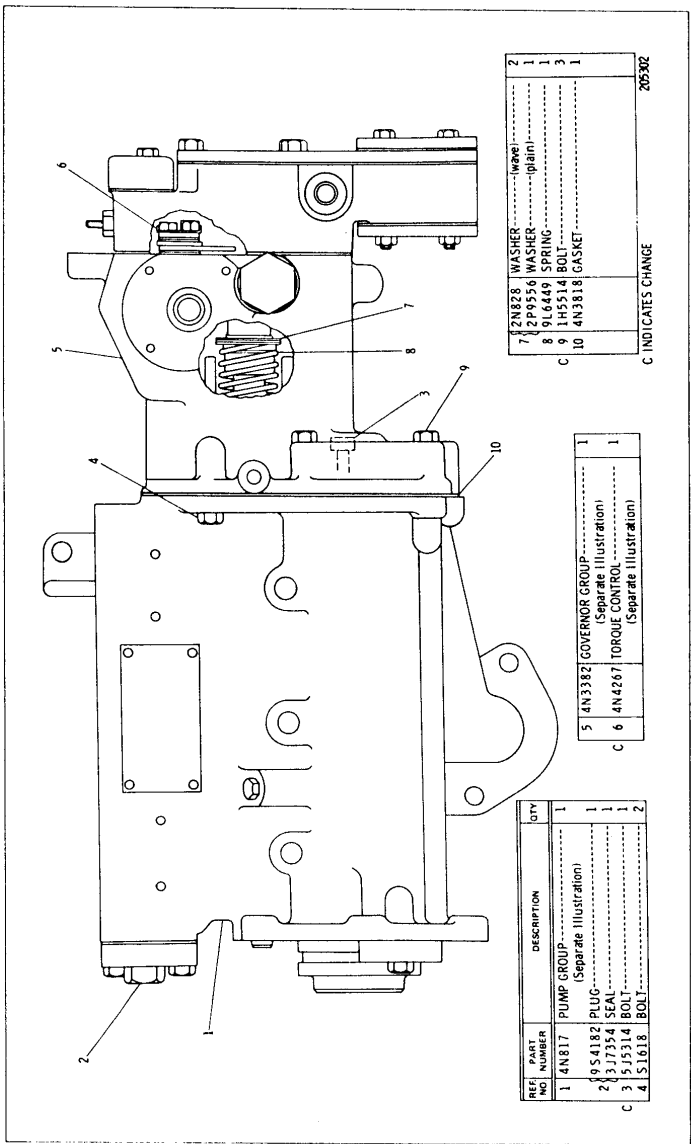
4N2482 GOVERNOR AND FUEL INJECTION PUMP GROUP
6N1537 Fuel Injection Pump, 4N3382 Governor and 4N4267 Torque Control parts are
shown on Pages 113C, 114, 116 through 118



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	6S4182 PLUG	(O-Ring)	1
2	3J7154 SEAL	(O-Ring)	1
3	6N1537 PUMP GROUP	(Separate Illustration)	1
4	4N3382 GOVERNOR GROUP	(Separate Illustration)	1
5	4N4267 TORQUE CONTROL	(Separate Illustration)	1
6	2P9556 WASHER	.....	1
7	51618 BOLT	.....	2
8	2N828 WASHER	.....	2
9	9L6447 SPRING	.....	1
10	1H5514 BOLT	.....	3
11	4N3818 GASKET	.....	1

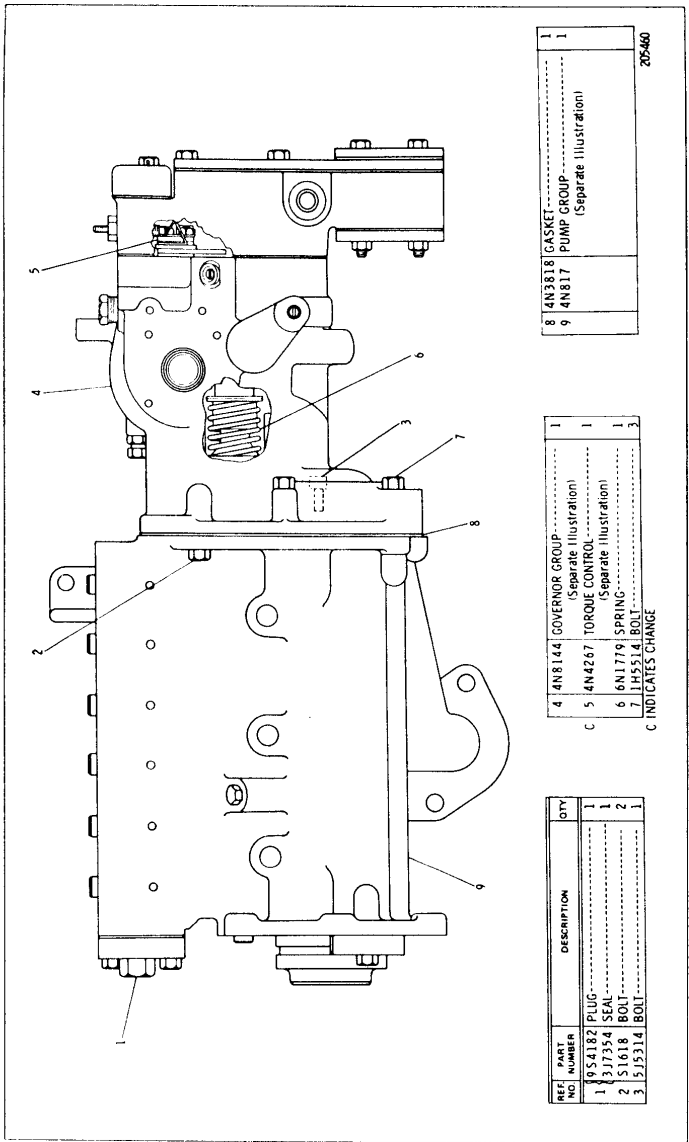
C INDICATES CHANGE

163233



4N4145 GOVERNOR AND FUEL INJECTION PUMP GROUP
Also part of 4N4238 and 4N6191 Engine Procurement Arrangements listed on Pages 13 and 16. 4N817
Fuel Injection Pump. 4N3382 Governor and 4N4267 Torque Control parts are shown on Pages 115, 116,
116A, 116B, 116C, 116D, 117 and 118. AN ATTACHMENT

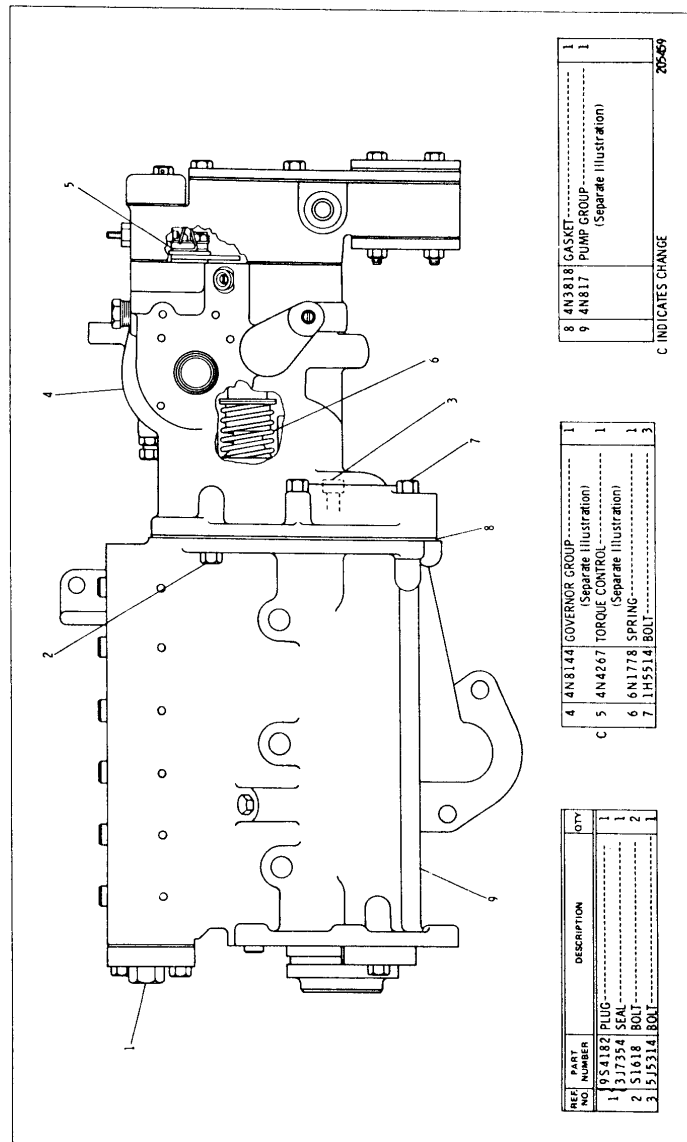
4N817 GOVERNOR AND FULL INJECTION PUMP GROUP.
Provides a 3% Regulation Pump and Governor Group for use on prechambered turbocharged, aftercooled arrangements in 50 hertz electric set applications. Part of 6N459 Engine Procurement Arrangement shown on Page 10B
4N817 Pump, 4N4267 Torque Control and 4N8144 Governor parts are shown on Pages 115, 116, 120, 120A, 120B and 121



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	054182	PLUG	1
2	317354	SEAL	1
3	51618	BOLT	2
4	515314	BOLT	1

4	4N8144	GOVERNOR GROUP	1
5	4N4267	TORQUE CONTROL	1
6	6N1779	SPRING	1
7	1H5514	BOLT	3
C INDICATES CHANGE			

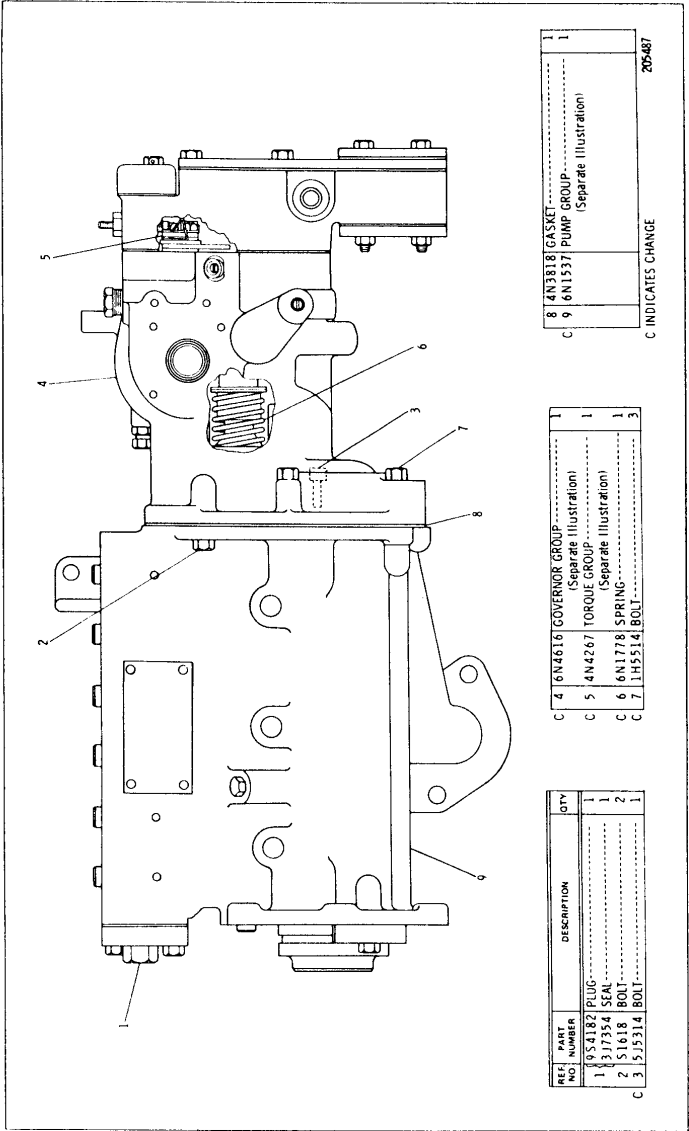
8	4N3818	GASKET	1
9	4N817	PUMP GROUP	1
(Separate Illustration)			
205460			

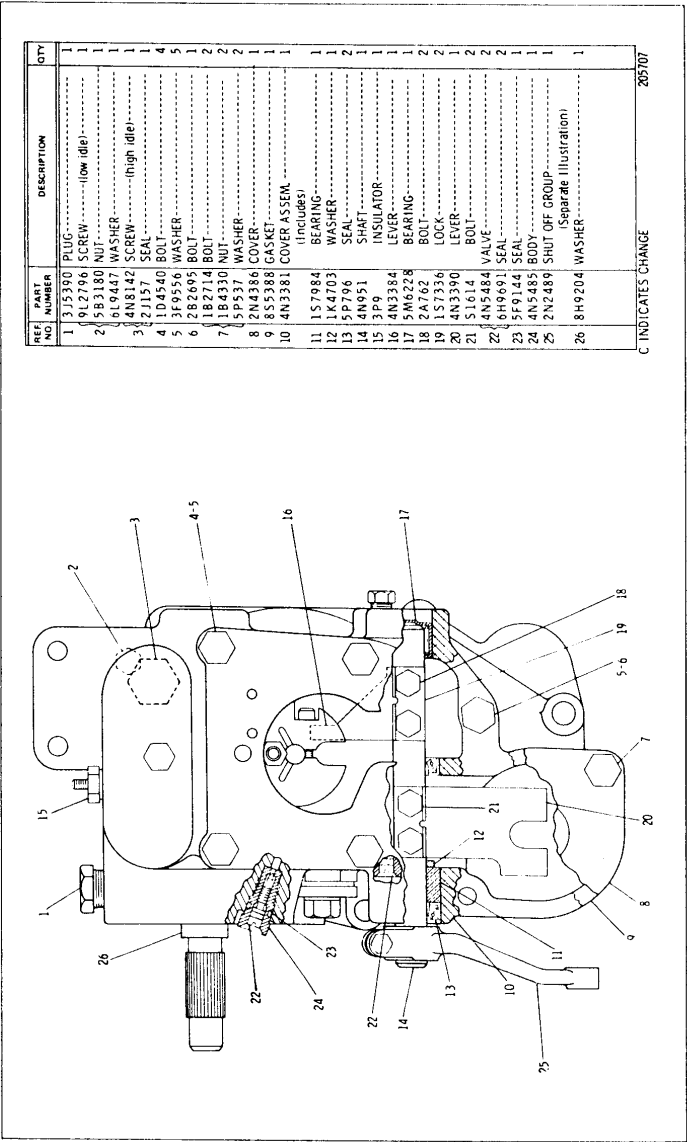


4N8879 GOVERNOR AND FUEL INJECTION PUMP GROUP

Provides a 3 percent Regulation Pump and Governor Group for use on prechambered, turbocharged, aftercooled arrangements in 60 hertz electric set applications. Part of 6N458 and 6N460 Engine Procurement Arrangements shown on Papers 16A and 16B. 4N817 Pump, 4N4267 Torque Control and

4N8332 GOVERNOR AND FUEL INJECTION PUMP GROUP
6N4616 Governor, 6N1537 Fuel Injection Pump and 4N4267 Torque Control parts are shown on Pages 113A, 113B, 113C and 118. AN ATTACHMENT





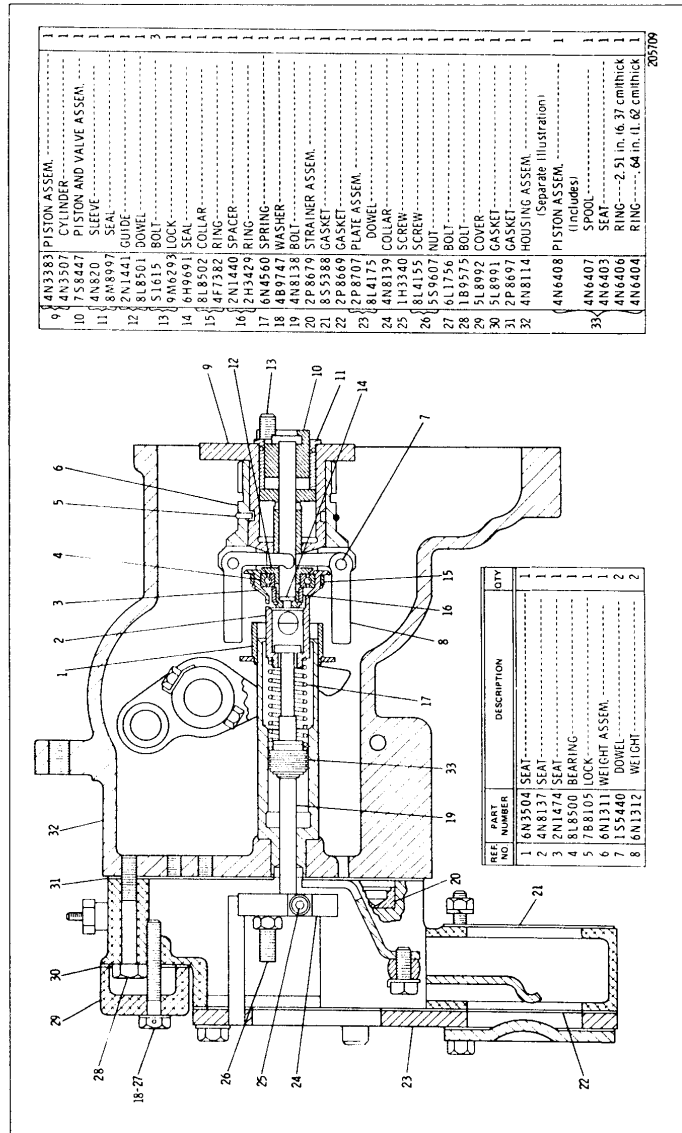
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	15300	PLUG.....(low idle).....	1
2	912786	SCREW.....(low idle).....	1
3	583180	NUT.....	1
4	61047	WASHER.....	1
5	4N8142	SCREW.....(high idle).....	1
6	21157	SEAL.....	1
7	1D4540	ROD.....	4
8	3F9556	WASHER.....	5
9	282695	ROD.....	2
10	1B2714	ROD.....	2
11	1B4330	NUT.....	2
12	5P537	WASHER.....	2
13	2N4386	COVER.....	1
14	855388	GASKET.....	1
15	4N3381	COVER ASSEM. (Includes)	1
16	157984	BEARING.....	1
17	1K4703	WASHER.....	1
18	5P796	SEAL.....	2
19	4N951	SHAFT.....	1
20	3P9	INSULATOR.....	1
21	4N3384	LEVER.....	1
22	5M6228	BEARING.....	1
23	2A762	BOLT.....	2
24	1S7336	LOCK.....	2
25	51614	LEVER.....	2
26	4N3390	BOLT.....	2
27	4N5484	VALVE.....	2
28	6H9691	SEAL.....	2
29	5F9144	SEAL.....	2
30	4N5485	BODY.....	1
31	2N2489	SHUT OFF GROUP (Separate Illustration)	1
32	8H9204	WASHER.....	1

C INDICATES CHANGE

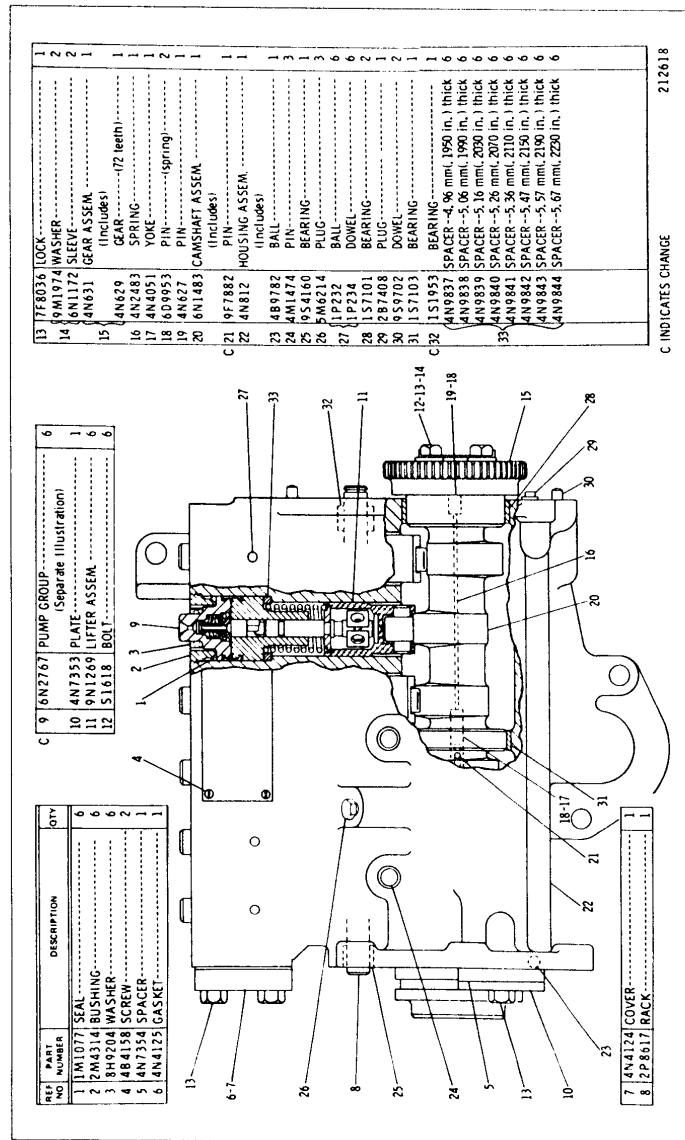
205707

6N4616 GOVERNOR GROUP—Part 1
Part of 4N8332 Governor and Fuel Injection Pump Group shown on Page 113
2N2489 Shut-Off parts are shown on Page 113D

6N4616 GOVERNOR GROUP—Part 2
Part of 4N8332 Governor and Fuel Injection Pump Group shown on Page 113
4N8114 Governor Housing parts are shown on Page 119



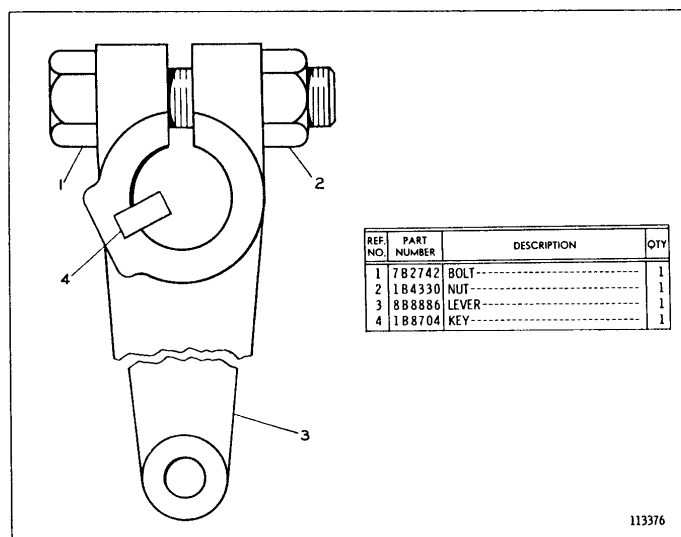
9	4N3383	PISTON ASSEM.	1
10	4N3507	CYLINDER	1
11	755447	PISTON AND VALVE ASSEM.	1
12	4N8201	SEAL	1
13	8M9997	SEAL	1
14	2N1441	GUIDE	1
15	8L8501	DOWEL	1
16	51615	BOLT	1
17	9M6293	LOCK	1
18	6H9691	SEAL	1
19	8L8502	COLLAR	1
20	4F7382	RING	1
21	2N1440	SPACER	1
22	2H3429	RING	1
23	6M4560	SPRING	1
24	4B9747	WASHER	1
25	4N8138	BOLT	1
26	2P8679	STRAINER ASSEM.	1
27	1855388	GASKET	1
28	2P8669	GASKET	1
29	2P8707	PLATE ASSEM.	1
30	8L4175	DOWEL	1
31	4N8139	COLLAR	1
32	4N3540	SCREW	1
33	8L4175	SCREW	1
34	4N3540	SCREW	1
35	4N3540	SCREW	1
36	4N3540	SCREW	1
37	4N3540	SCREW	1
38	4N3540	SCREW	1
39	4N3540	SCREW	1
40	4N3540	SCREW	1
41	4N3540	SCREW	1
42	4N3540	SCREW	1
43	4N3540	SCREW	1
44	4N3540	SCREW	1
45	4N3540	SCREW	1
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71	4N3540	SCREW	1
72	4N3540	SCREW	1
73	4N3540	SCREW	1
74	4N3540	SCREW	1
75	4N3540	SCREW	1
76	4N3540	SCREW	1
77	4N3540	SCREW	1
78	4N3540	SCREW	1
79	4N3540	SCREW	1
80	4N3540	SCREW	1
81	4N3540	SCREW	1
82	4N3540	SCREW	1
83	4N3540	SCREW	1
84	4N3540	SCREW	1
85	4N3540	SCREW	1
86	4N3540	SCREW	1
87	4N3540	SCREW	1
88	4N3540	SCREW	1
89	4N3540	SCREW	1
90	4N3540	SCREW	1
91	4N3540	SCREW	1
92	4N3540	SCREW	1
93	4N3540	SCREW	1
94	4N3540	SCREW	1
95	4N3540	SCREW	1
96	4N3540	SCREW	1
97	4N3540	SCREW	1
98	4N3540	SCREW	1
99	4N3540	SCREW	1
100	4N3540	SCREW	1



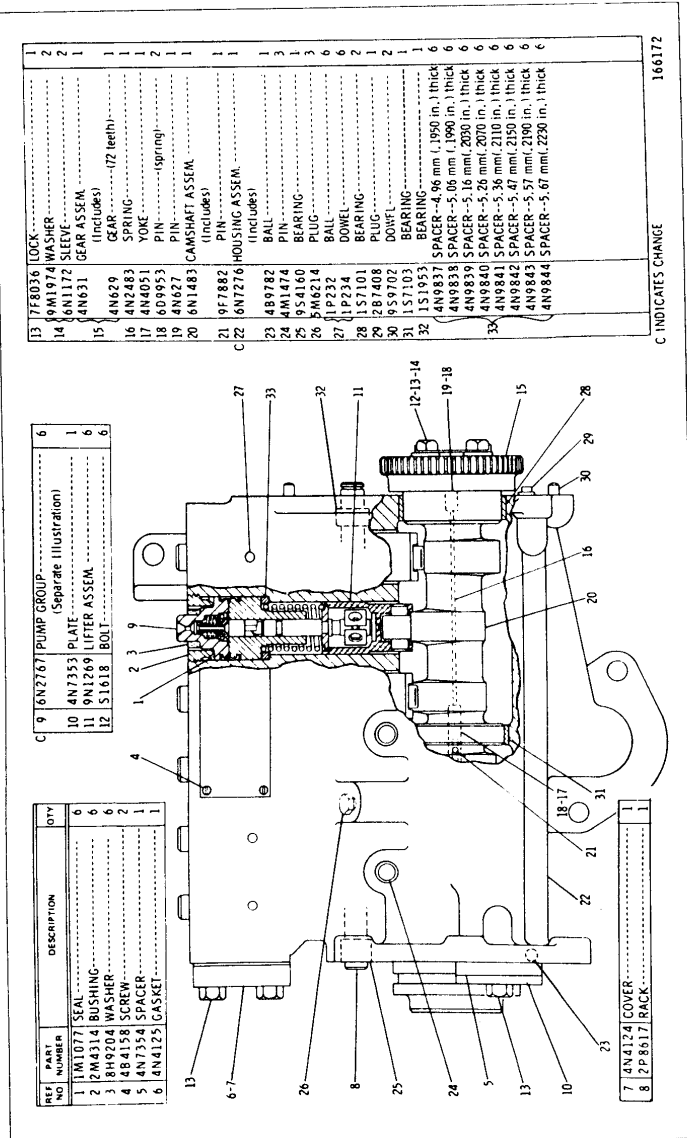
6N1537 FUEL INJECTION PUMP GROUP—Type 1

Replaced by 7N3085 shown on Page 114-1

Part of 4N2482 and 4N8332 Governor and Fuel Injection Pump Groups shown on Pages 111 & 113
6N2767 Pump parts are shown on Page 114A



2N2489 MANUAL SHUT-OFF GROUP
Part of 6N4616 Governor Group shown on Page 113A



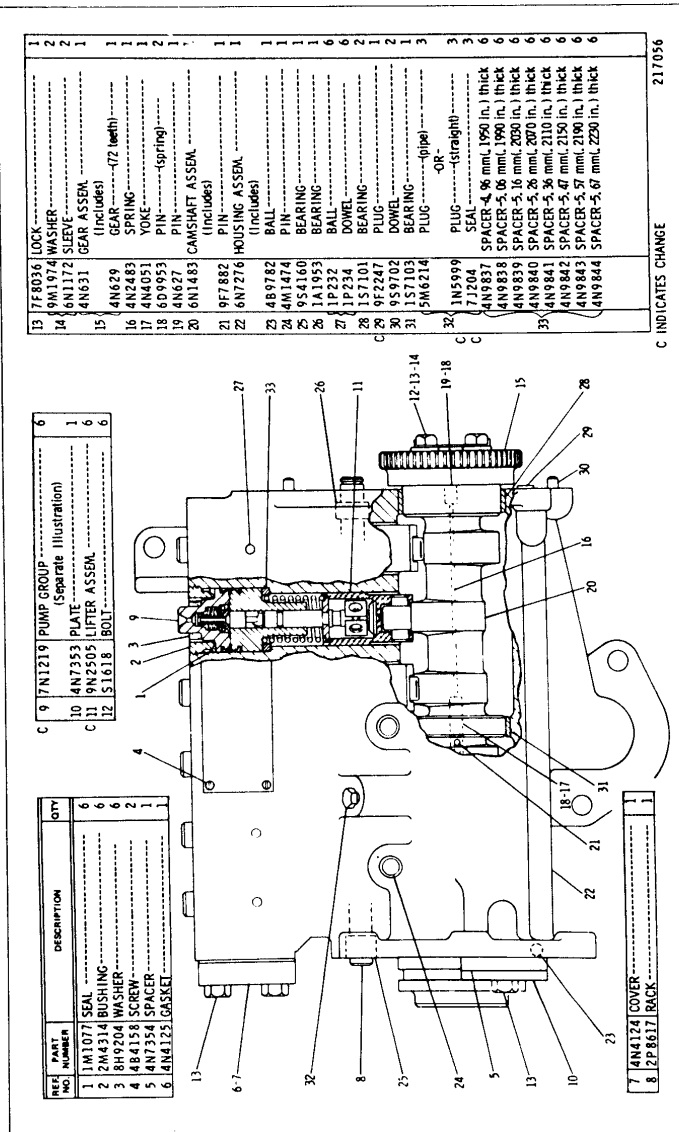
6N1537 FUEL INJECTION PUMP GROUP—Type 2

Replaced by 7N3085 shown on Page 114-1

Part of 4N2482 and 4N8332 Governor & Fuel Injection Pump Groups shown on Pages 111 & 113

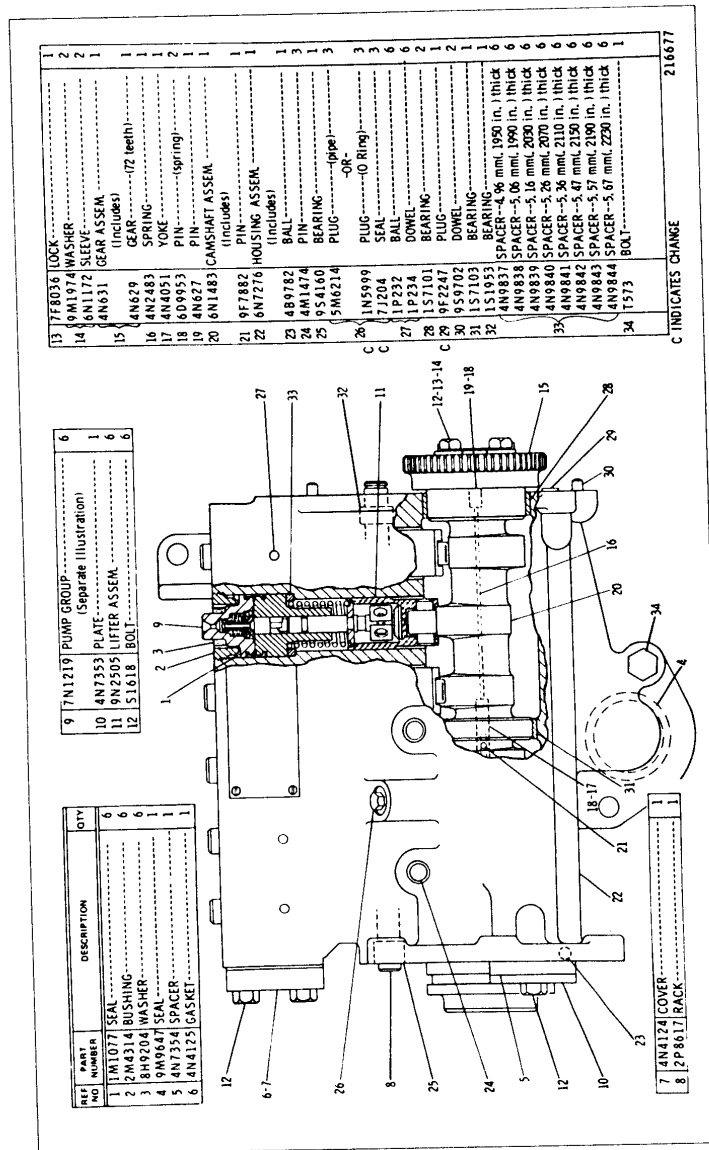
6N2767 Pump parts are shown on Page 114A

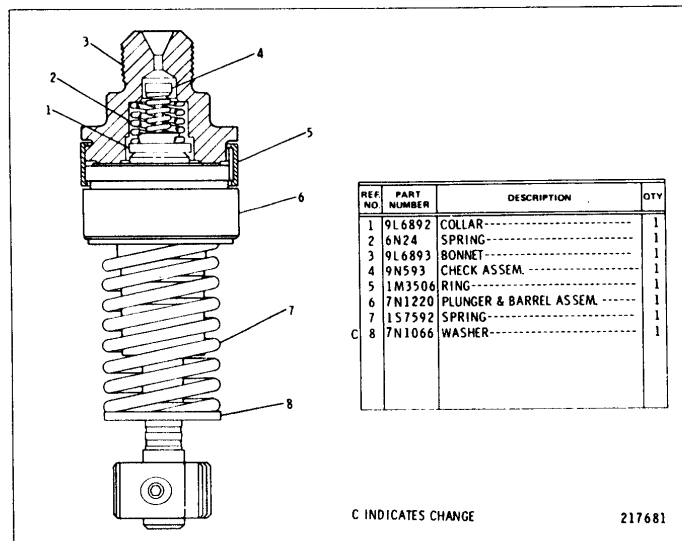
6N1537 FUEL INJECTION PUMP GROUP—Type 3—Replaced by 7N3085 shown on Page 114-2
 Part of 4N2482 and 4N8332 Governor and Fuel Injection Pump Groups shown on Pages 111 and 113
 7N1219 Pump parts are shown on Page 114-3



C INDICATES CHANGE

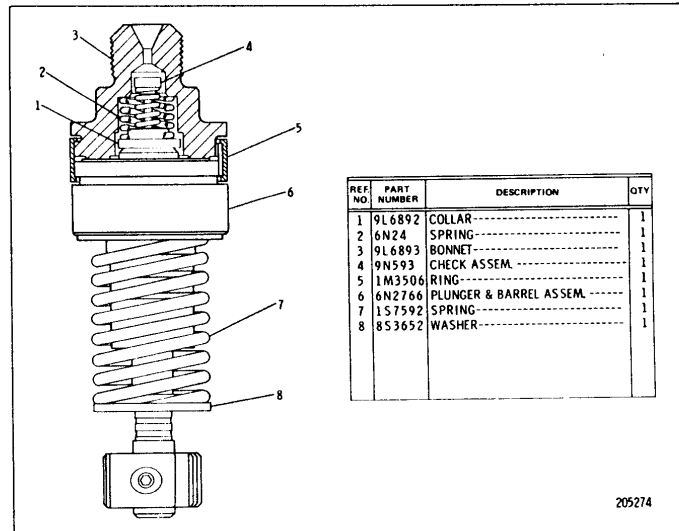
217056



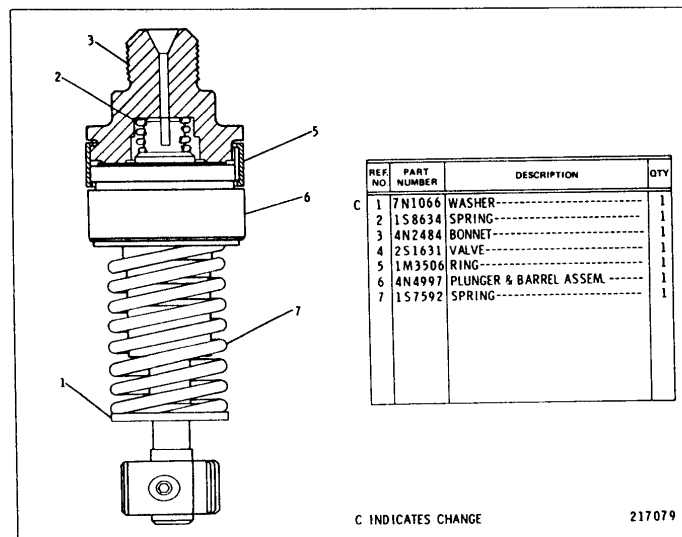


7N1219 FUEL INJECTION PUMP GROUP

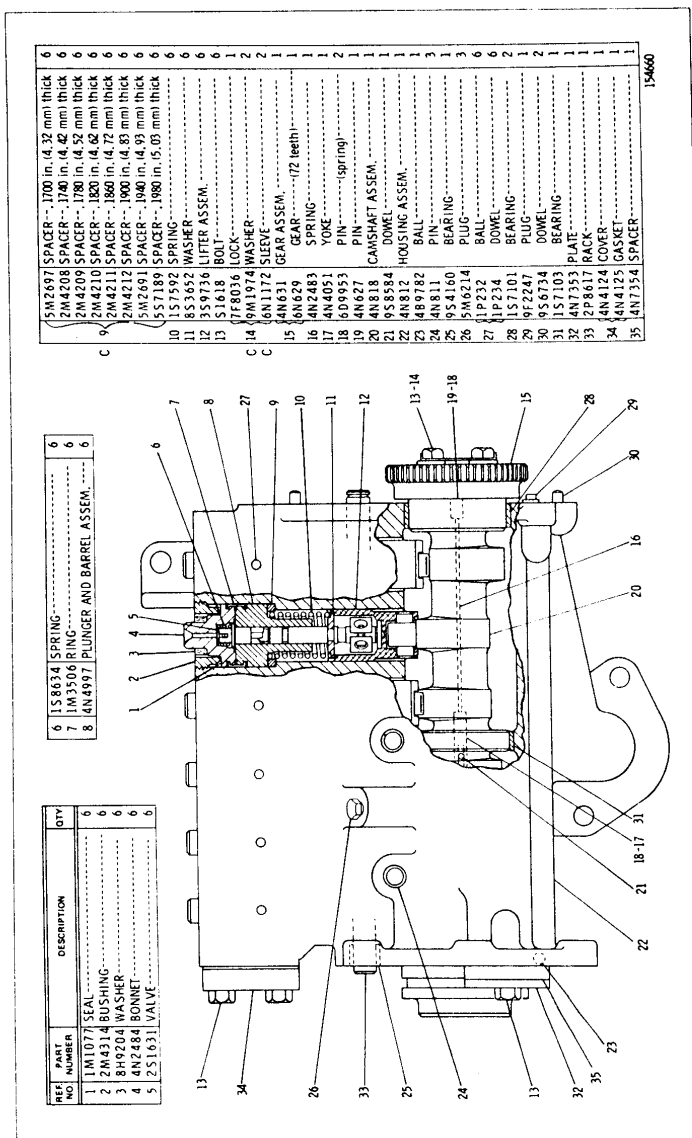
Part of 6N1537 and 7N3085 Fuel Injection Pump Groups shown on Pages 114-1 and 114-2



6N2767 FUEL INJECTION PUMP GROUP
Part of 6N1537 Fuel Injection Pump Group shown on Page 114

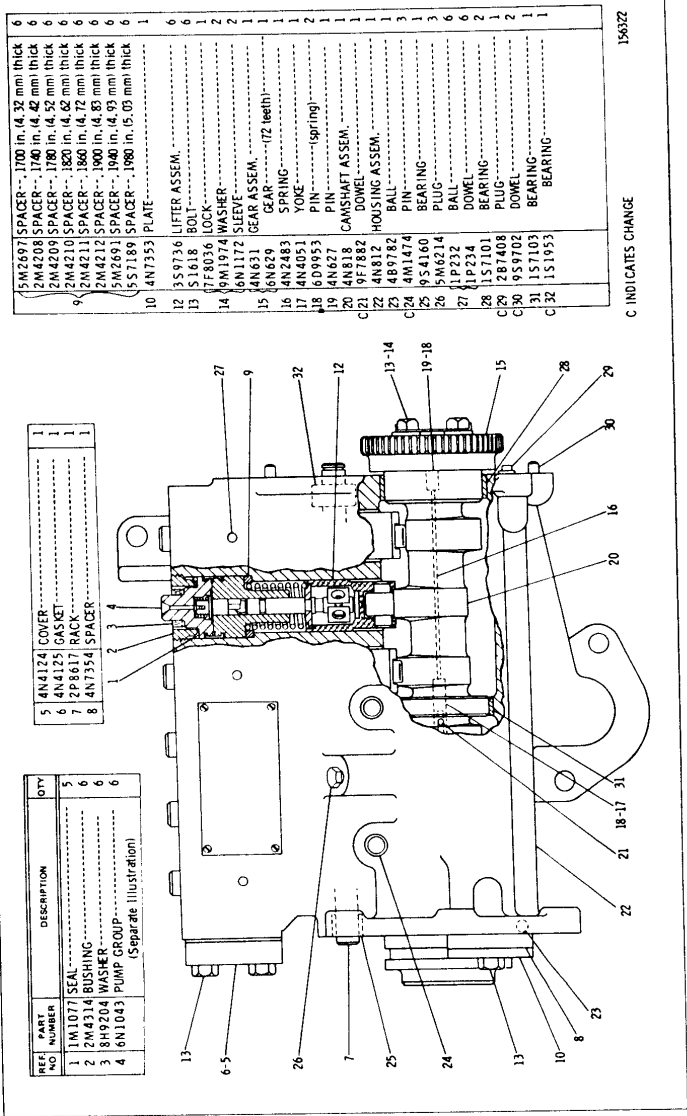


6N1043 FUEL INJECTION PUMP GROUP
Part of 4N817 Fuel Injection Pump Group shown on Page 115



4N817 FUEL INJECTION PUMP GROUP—Type 1
Part of 4N4145, 4N8878 and 4N8879 Governor and Fuel Injection Pump Groups
shown on Pages 112, 112A and 112B

4N817 FUEL INJECTION PUMP GROUP—Type 2
Part of 4N4145, 4N8878 and 4N8879 Governor and Fuel Injection Pump Groups shown on
Pages 112, 112A and 112B. 6N1043 Pump parts are shown on Page 114A

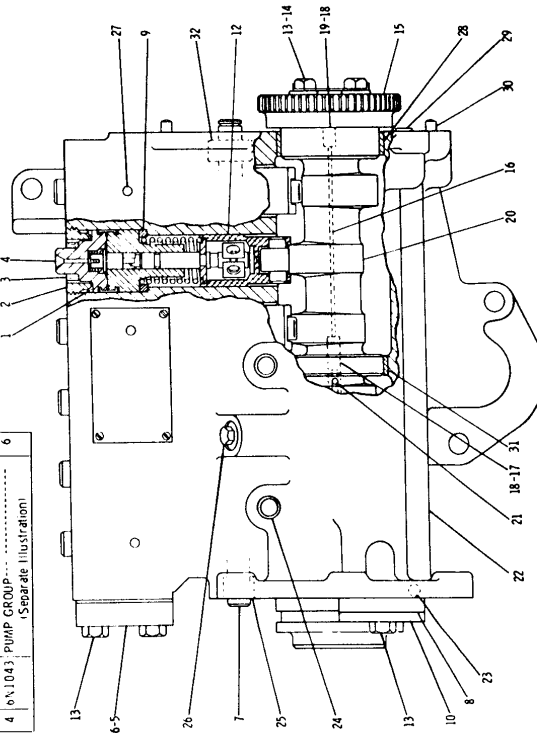


C INDICATES CHANGE

156322

4N817 FUEL INJECTION PUMP GROUP—Type 3
 Part of 4N4145, 4N8878 and 4N8879 Governor and Fuel Injection Pump Groups shown on
 Pages 112, 112A and 112B. 6N1043 Pump parts are shown on Page 114A

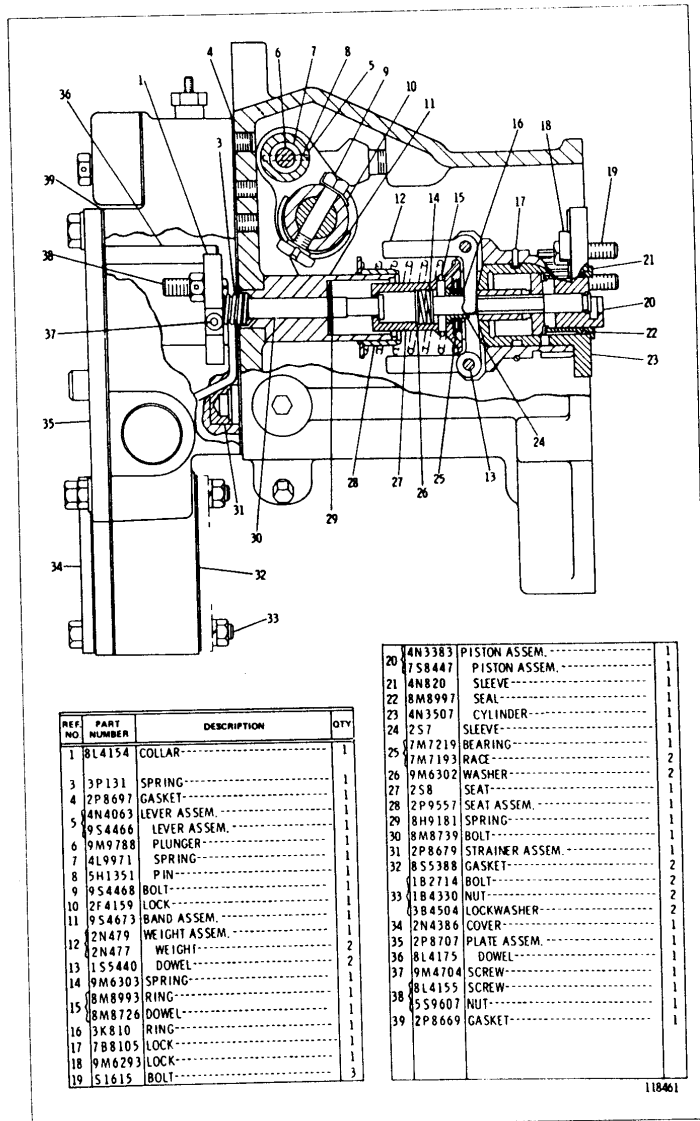
QTY	PART NUMBER	DESCRIPTION	QTY
1	1N1077	SEAL	5
2	2N4314	BUSHING	6
3	8N4204	WASHER	6
4	6N1043	PUMP GROUP— (Separate Illustration)	6
5	4N4124	COVER	1
6	4N4125	GASKET	1
7	2P8617	RACK	1
8	4N7354	SPACER	1



5M2697	SPACER—4.32 mm, .1700 in. thick	6	
2M4208	SPACER—4.42 mm, .1740 in. thick	6	
2M4209	SPACER—4.52 mm, .1800 in. thick	6	
2M4210	SPACER—4.62 mm, .1850 in. thick	6	
2M4211	SPACER—4.72 mm, .1900 in. thick	6	
2M4212	SPACER—4.83 mm, .1900 in. thick	6	
5M2691	SPACER—4.93 mm, .1940 in. thick	6	
5S7189	SPACER—5.03 mm, .1980 in. thick	6	
10	4N7353	PLATE	1
12	3S9736	LIFTER ASSEM.	6
13	51618	BOLT	6
14	7F8036	LOCK	2
15	6N1974	WASHER	2
16	6N1172	SLAVE ASSEM.	1
17	4N631	GEAR—(72 teeth)	1
18	4N495	YOK	1
19	6N9953	PIN—(spring)	2
20	4N627	PIN	1
21	4N818	CAM/SHAFT ASSEM.	1
22	6N7276	DOVEL	1
23	4N782	HOUSING ASSEM.	1
24	4M1474	BALL	3
25	9S4160	PIN	3
26	5M6214	BEARING—(pipe)	3
27	1N5999	PLUG—OR— —(O-Ring)	3
28	7J204	SEAL	3
29	1P232	BALL	3
30	1P234	DOVEL	6
31	1S7101	BEARING	2
32	9F2247	PLUG	1
33	9S9702	DOVEL	2
34	1S7103	BEARING	1
35	1S1953	BEARING	1

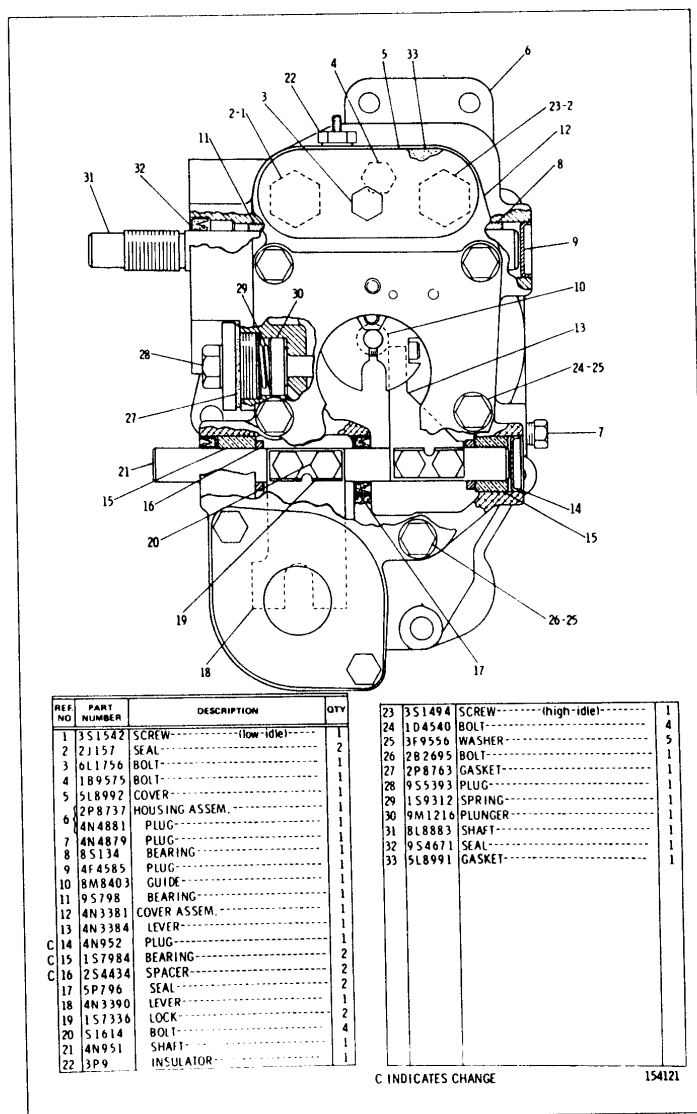
C INDICATES CHANGE

216678

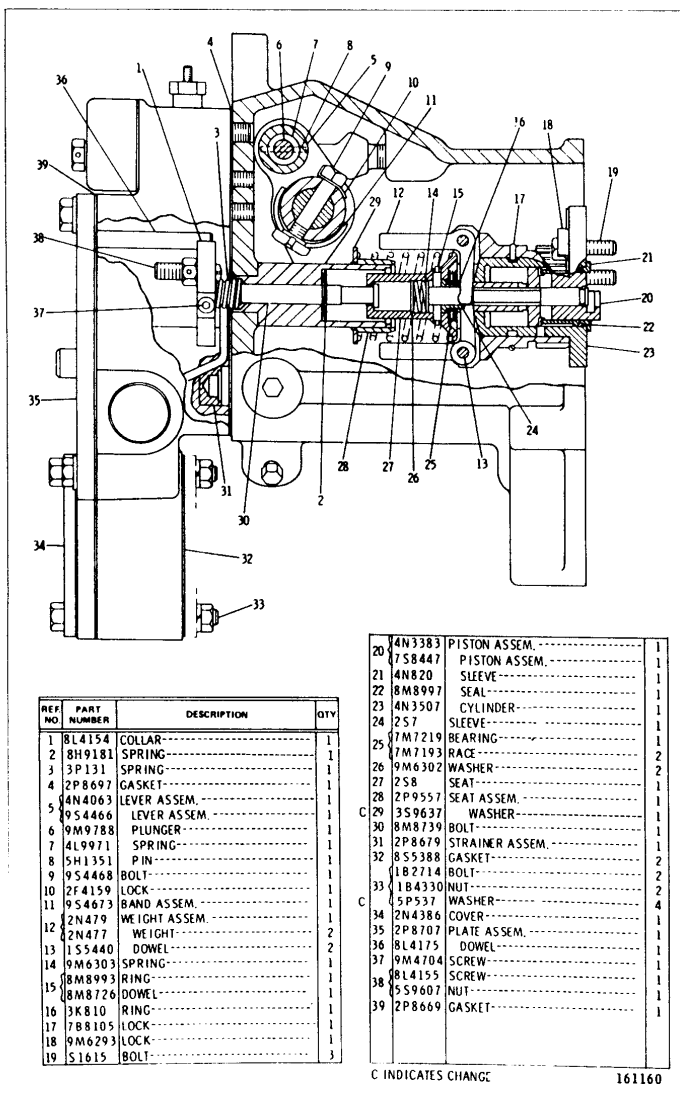


4N3382 GOVERNOR GROUP

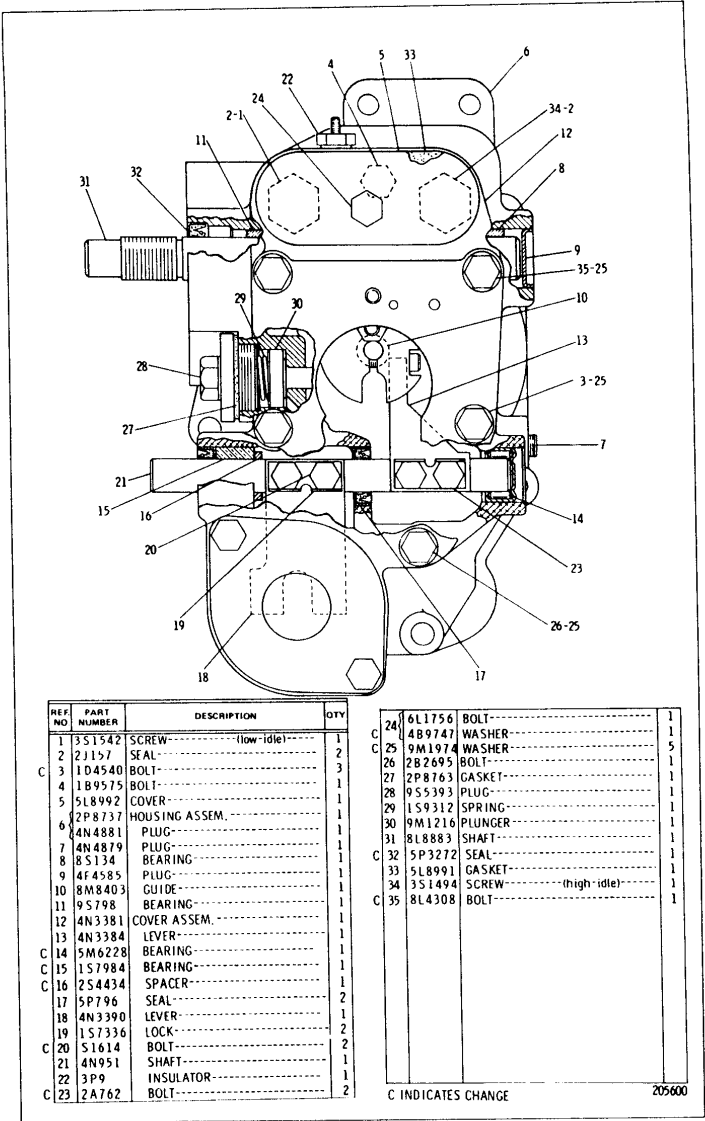
Serial No. 90U1 to 90U224 inclusive. Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups shown on Pages 111 and 112



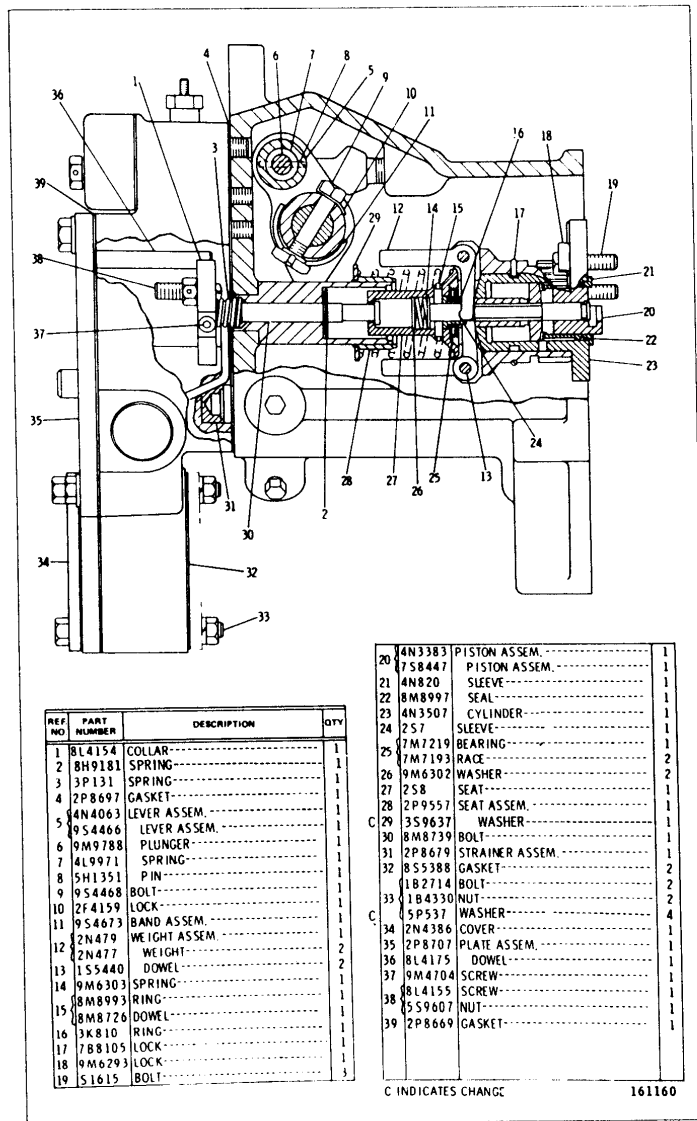
4N3382 GOVERNOR GROUP—Part 2
 Serial No. 90U1 to 90U224 inclusive. Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups shown on Pages 111 and 112



4N3382 GOVERNOR GROUP—Part 1
 Serial No. 90U225 to 90U316 inclusive
 Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups
 shown on Pages 111 and 112



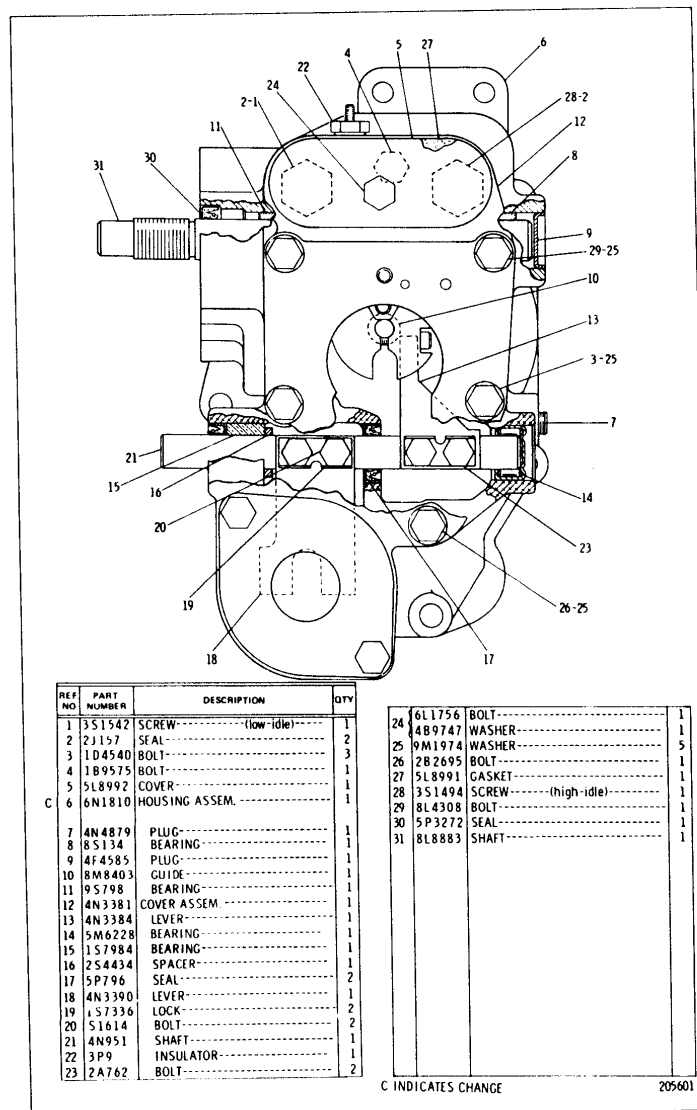
4N3382 GOVERNOR GROUP—Part 2
Serial No. 90U225 to 90U316 inclusive. Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups shown on Pages 111 and 112



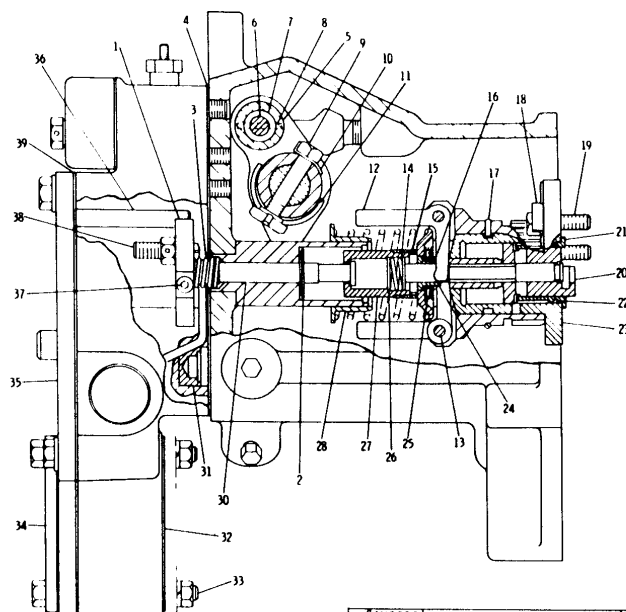
4N3382 GOVERNOR GROUP—Part 1—Type 1

Serial No. 90U317 to 90U1620 inclusive

Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups shown on Pages 111 and 112



4N3382 GOVERNOR GROUP—Part 2—Type 1
 Serial No. 90U317 to 90U1620 inclusive
 Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups
 shown on Pages 111 and 112



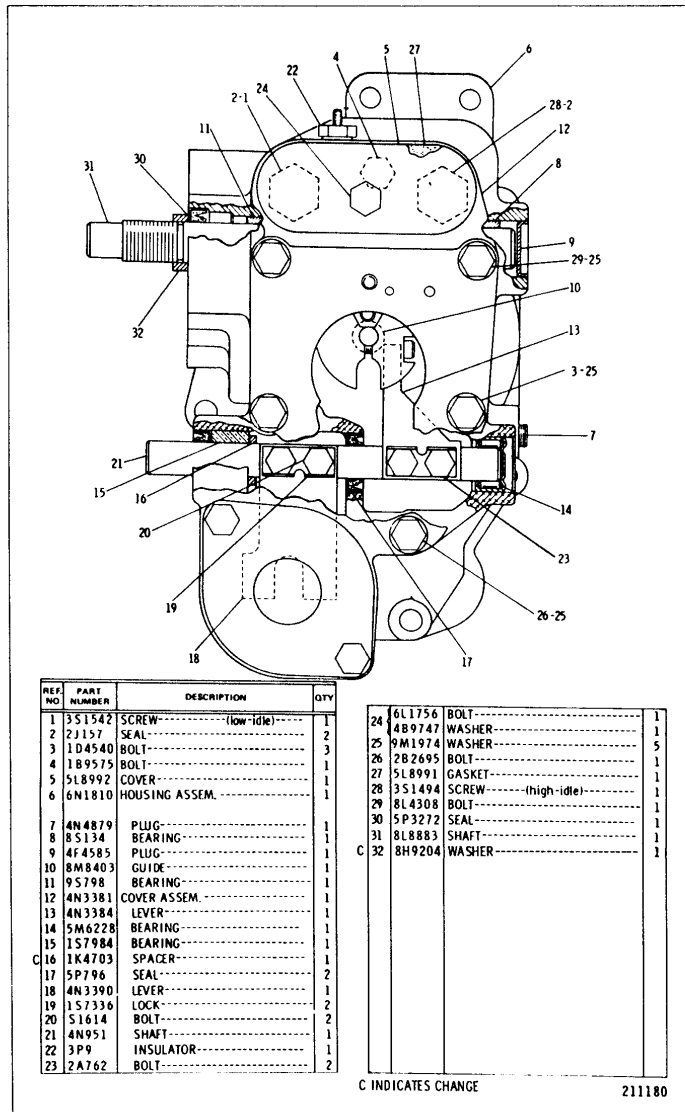
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	814154	COLLAR	1
2	8H9181	SPRING	1
3	9N2289	SPRING	1
4	2P8697	GASKET	1
5	4N4063	LEVER ASSEM.	1
6	9S4466	LEVER ASSEM.	1
7	9M9788	PLUNGER	1
8	4L9971	SPRING	1
9	5H1351	PIN	1
10	9S4468	BOLT	1
11	2F4159	LOCK	1
12	9S4673	BAND ASSEM.	1
13	2N479	WEIGHT ASSEM.	1
14	2N477	WEIGHT	2
15	1S5440	DOWEL	2
16	9M6303	SPRING	1
17	4N3887	RING	1
18	2P8630	DOWEL	1
19	3K810	RING	1
20	788105	LOCK	1
21	9M6293	LOCK	1
22	51615	BOLT	3

23	4N3383	PISTON ASSEM.	1
24	7S8447	PISTON ASSEM.	1
25	4N820	SLEEVE	1
26	8M8997	SEAL	1
27	4N3507	CYLINDER	1
28	2S7	SLEEVE	1
29	7M7219	BEARING	1
30	7M7193	RACE	2
31	9M6302	WASHER	2
32	6N8629	SEAT	1
33	6N3504	SEAT	1
34	8M8739	BOLT	1
35	2P8679	STRAINER ASSEM.	1
36	8S5388	GASKET	2
37	1B2714	BOLT	2
38	1B4330	NUT	2
39	5P532	WASHER	2
40	2N4386	COVER	4
41	2P8707	PLATE ASSEM.	1
42	814175	DOWEL	1
43	9M4704	SCREW	1
44	814155	SCREW	1
45	1B4201	NUT	1
46	2P8669	GASKET	1

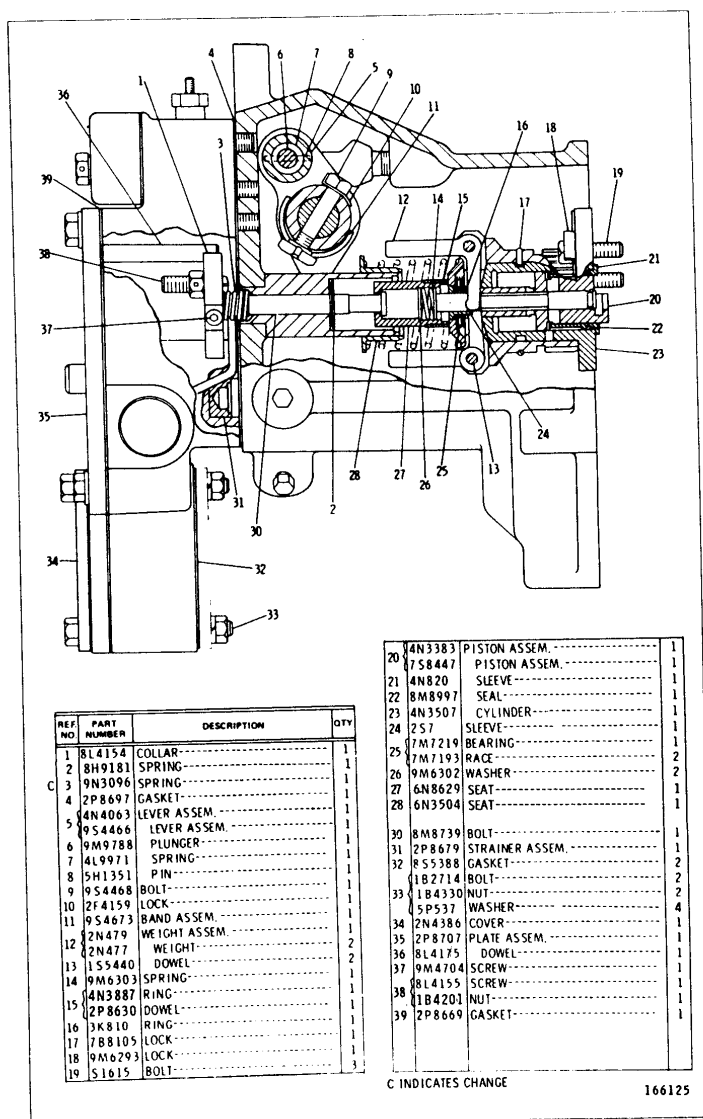
C INDICATES CHANGE

161161

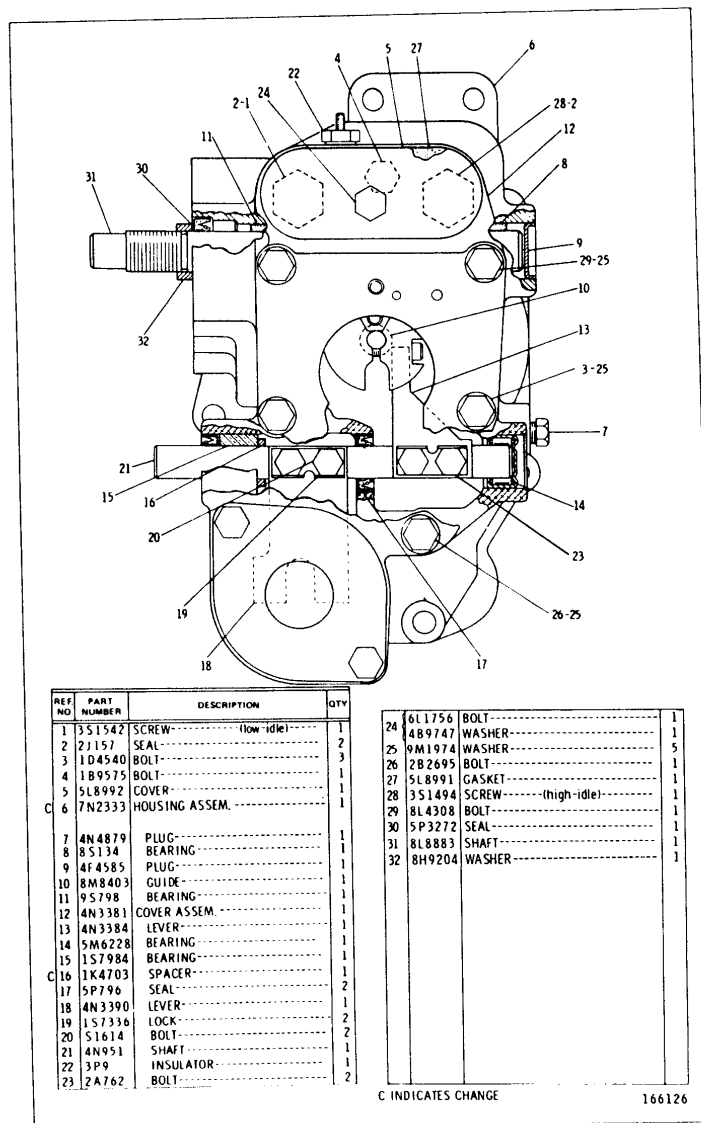
4N3382 GOVERNOR GROUP—Part 1—Type 2
 Serial No. 90U317 to 90U1620 inclusive
 Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups
 shown on Pages 111 and 112



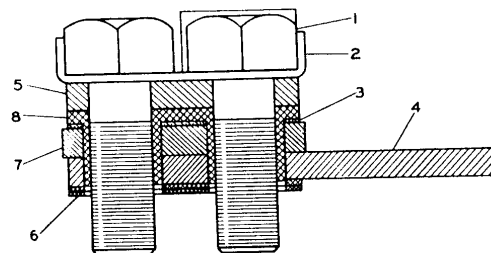
4N3382 GOVERNOR GROUP—Part 2—Type 2
 Serial No. 90U317 to 90U1620 inclusive
 Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups
 shown on Pages 111 and 112



4N3382 GOVERNOR GROUP—Part 1—Type 3
 Serial No. 90U317 to 90U1620 inclusive
 Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups shown
 on Pages 111 and 112



4N3382 GOVERNOR GROUP—Part 2—Type 3
 Serial No. 90U317 to 90U1620 inclusive
 Part of 4N2482 and 4N4145 Governor and Fuel Injection Pump Groups
 shown on Pages 111 and 112

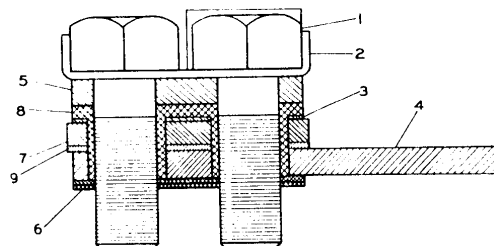


REF NO	PART NUMBER	DESCRIPTION	QTY
1	4F7957	BOLT	2
2	9M6292	LOCK	1
3	4N4218	CONTACT	1
4	2S7391	BAR	1
5	8M9062	RETAINER	2
6	2S7390	SPACER	1
7	3S602	RETAINER	1
8	1P6452	INSULATOR	1

143957

4N4267 GOVERNOR TORQUE SPRING—Type 1

Part of 4N2482, 4N4145, 4N8878, 4N8879 and 4N8332 Governor and Fuel Injection Pump Groups shown on Pages 111, 112, 112A, 112B and 113
Only separate parts serviced



REF NO	PART NUMBER	DESCRIPTION	QTY
1	4F7957	BOLT	2
2	9M6292	LOCK	1
3	4N4218	CONTACT	1
4	2S7391	BAR	1
5	8M9062	RETAINER	1
6	1P9958	INSULATOR	2
7	3S602	RETAINER	1
8	1P6452	INSULATOR	1
9	9L7235	SHIM	1

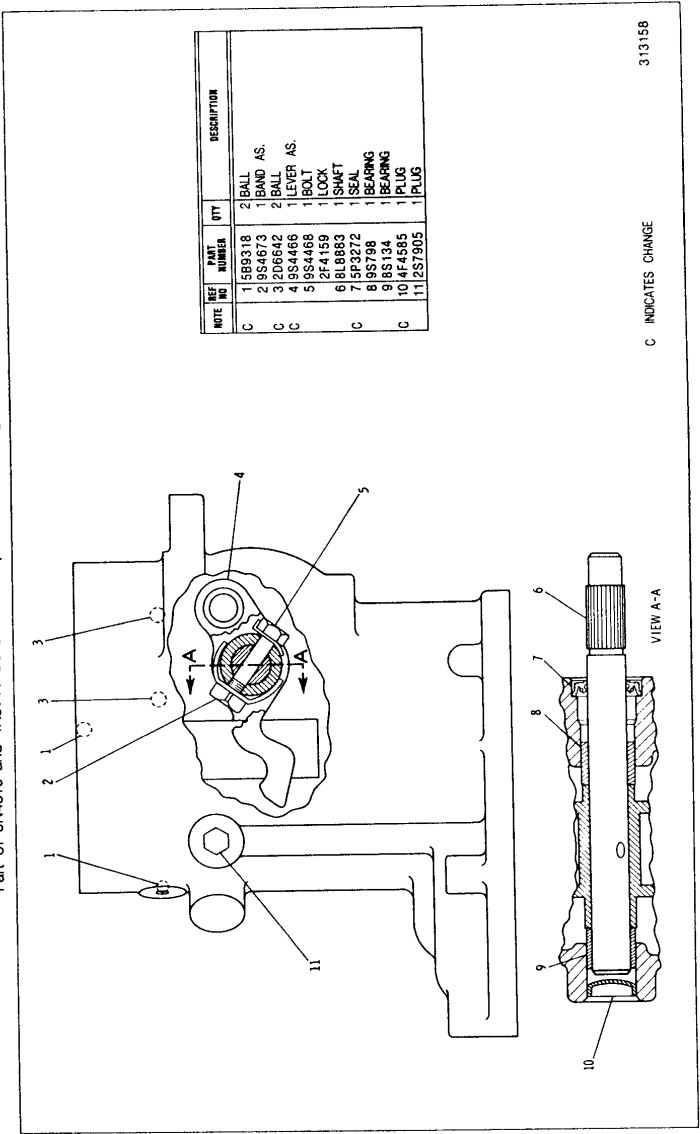
C INDICATES CHANGE

203605

4N4267 GOVERNOR TORQUE SPRING—Type 2

Part of 4N2482, 4N4145, 4N8878, 4N8879 and 4N8332 Governor and Fuel Injection Pump Groups shown on Pages 111, 112, 112A, 112B and 113
Only separate parts serviced

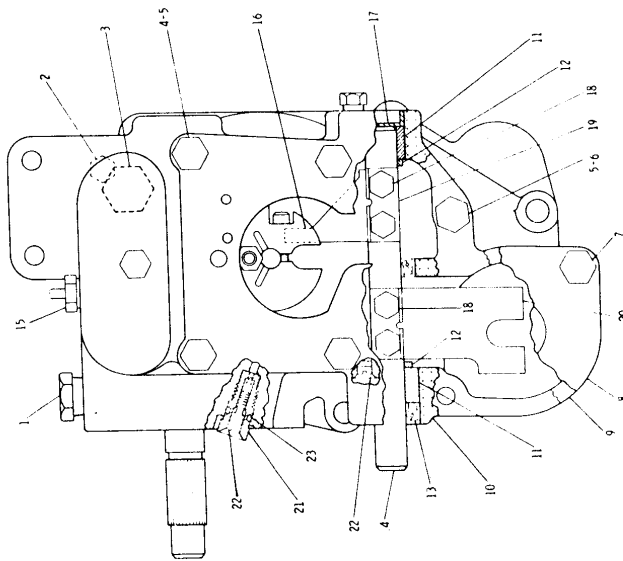
4N8114 GOVERNOR HOUSING ASSEMBLY
Part of 6N4616 and 4N8144 Governor Groups shown on Pages 113A, 120A and 121



PART NO	PART NUMBER	DESCRIPTION	QTY
1	315300	PLUG	1
2	1012795	SCREW	1
3	5B3180	NUT	1
4	1019447	WASHER	1
5	4N8142	SCREW	1
6	312157	SEAL	1
7	104540	BOLT	1
8	3F9556	WASHER	1
9	282695	BOLT	1
10	182714	BOLT	1
11	184330	NUT	1
12	383504	LOCKWASHER	1
13	2N4386	COVER	1
14	1855388	GASKET	1
15	4N3381	COVER ASSEM	1
16		(Includes)	
17	157984	BEARING	2
18	254434	SPACER	2
19	5P796	SEAL	2
20	4N951	SHOULDER	1
21	3P9	INSULATOR	1
22	4N3384	INSULATOR	1
23	4N952	PLUG	1
24	5P1326	BOLT	4
25	4N3300	LOCK	2
26	4N5485	LEVER	1
27	4N5485	BODY	1
28	4N5484	VALVE	1
29	6H9691	SEAL	2
30	5F9144	SEAL	1

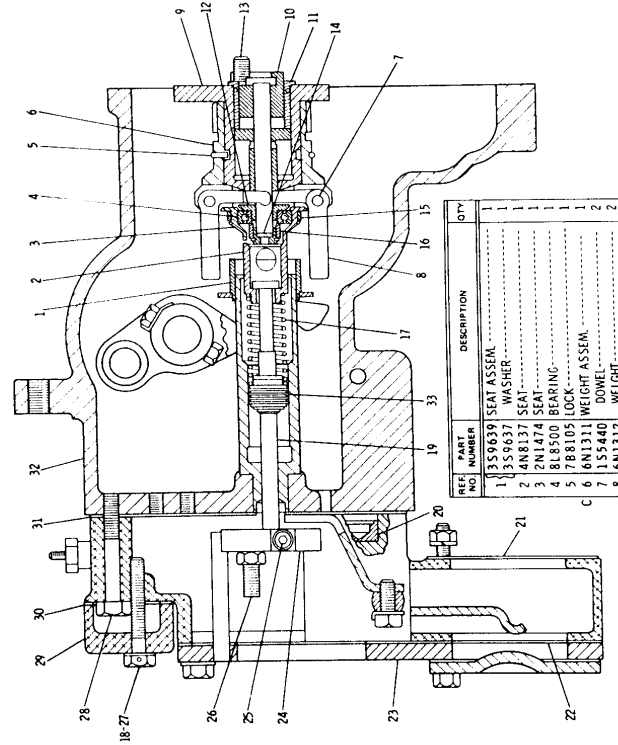
C INDICATES CHANGE

205578



4N8144 GOVERNOR GROUP—Part 1—Type 1
Part of 4N8878 and 4N8879 Governor and Fuel Injection Pump Groups shown on Pages 112A and 112B

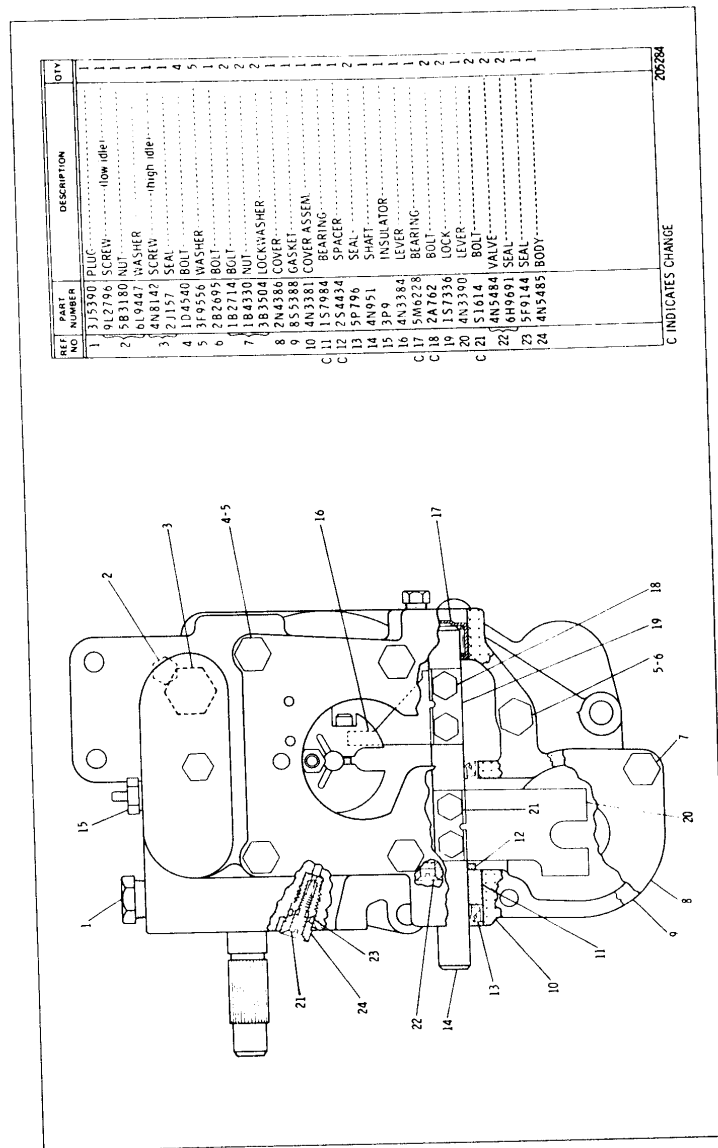
4N8144 GOVERNOR GROUP—Part 2—Type 1
 Governor and Fuel Injection Pump Groups shown on Pages 112A and 112B
 Part of 4N8878 and 4N8879 Governor and Fuel Injection Pump Groups shown on Pages 112A and 112B
 4N8114 Housing parts are shown on Page 119



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	359639	SEAT ASSEM.	1
2	359637	WASHER	1
3	4N8137	SEAT	1
4	2N1474	SEAT	1
5	818500	BEARING	1
6	788105	LOCK	1
7	6N1311	WEIGHT ASSEM.	1
8	155440	DOWEL	2
9	4N3383	PISTON ASSEM.	1
10	4N3507	CYLINDER	1
11	758447	PISTON AND VALVE ASSEM.	1
12	4N820	SLEEVE	1
13	8N8997	SEAL	1
14	2N1441	GASKET	1
15	818501	DOWEL	1
16	4N8293	LOCK	1
17	4N6691	SEAL	1
18	818502	COLLAR	1
19	4F7382	RING	1
20	2N1440	SPACER	1
21	2H3429	RING	1
22	6N1777	SPRING	1
23	4B0747	WASHER	1
24	4N8138	BOLT	1
25	2P8679	STRAINER ASSEM.	1
26	855388	GASKET	1
27	2P8669	GASKET	1
28	2P8707	PLATE ASSEM.	1
29	8L4175	DOWEL	1
30	4N8139	COLLAR	1
31	1H3340	SCREW	1
32	8L4155	SCREW	1
33	559607	NUT	1
34	6L1756	BOLT	1
35	189575	BOLT	1
36	5L8992	COVER	1
37	5L8991	GASKET	1
38	2P8697	GASKET	1
39	4N8114	HOUSING ASSEM. (Illustration)	1
40	4N6408	PISTON ASSEM. (Illustration)	1
41	4N6407	SPOOL	1
42	4N6403	SEAT	1
43	4N6406	RING	1
44	4N6404	RING	1

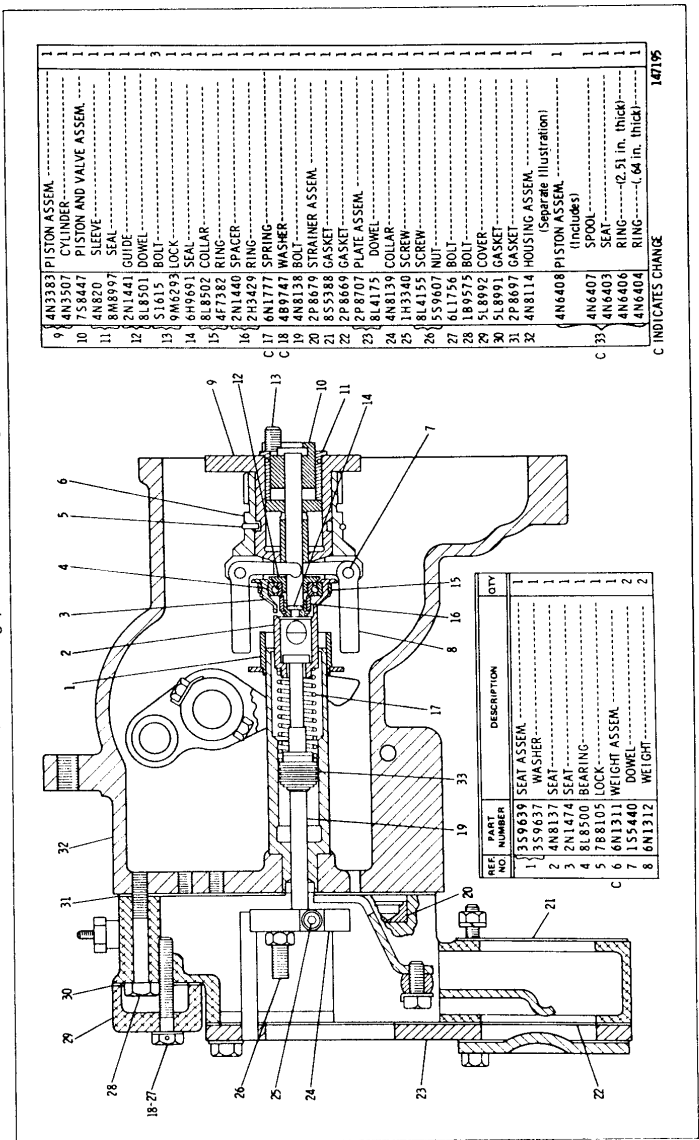
C INDICATES CHANGE

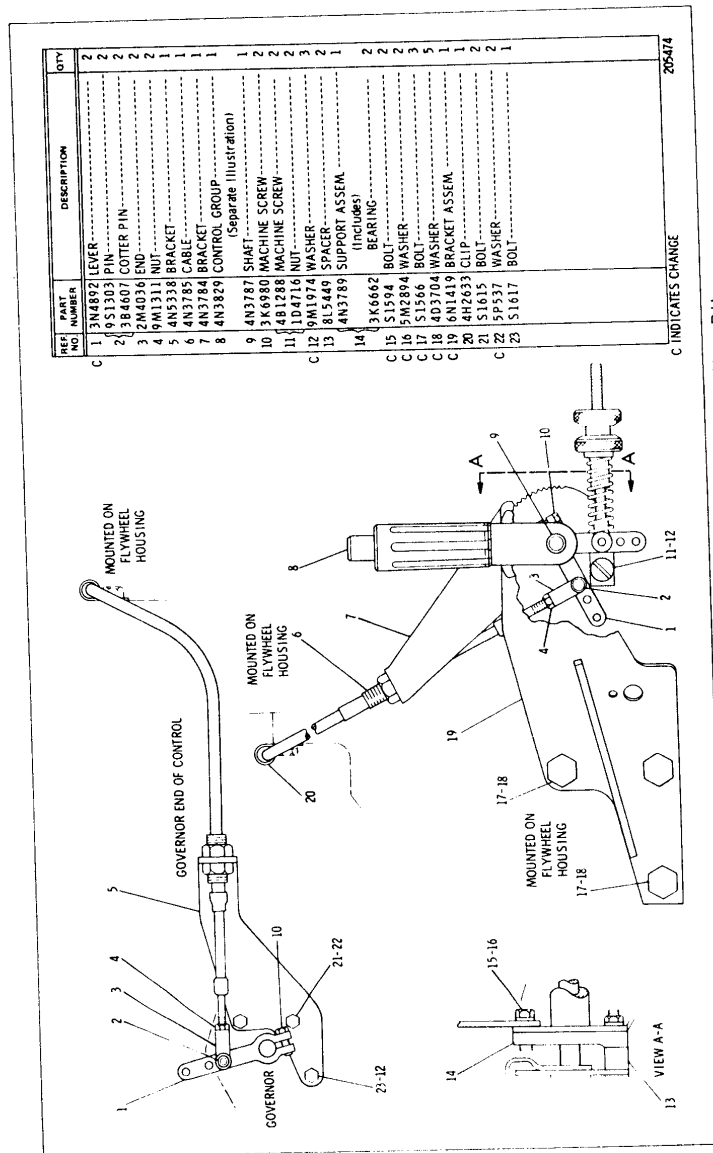
147195



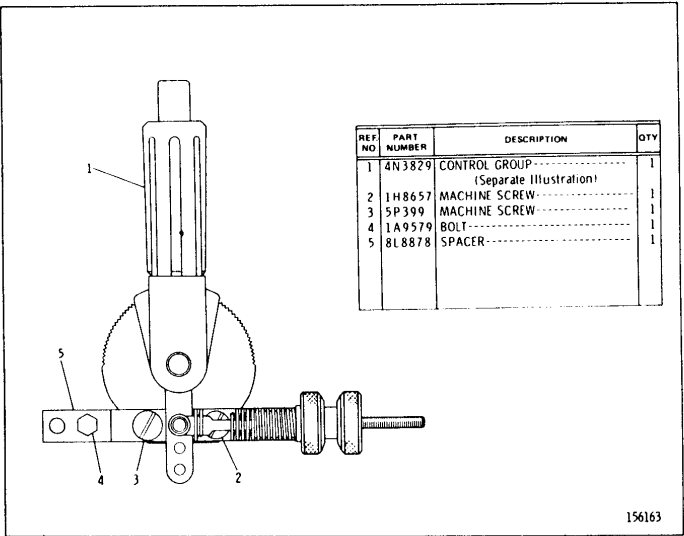
4N8144 GOVERNOR GROUP—Part 1—Type 2
Part of 4N8878 and 4N8879 Governor and Fuel Injection Pump Groups shown on Pages 112A and 112B

4N8144 GOVERNOR GROUP—Part 2—Type 2
Part of 4N8878 and 4N8879 Governor and Fuel Injection Pump Groups shown on Pages 112A and 112B
4N8114 Housing parts are shown on Page 119

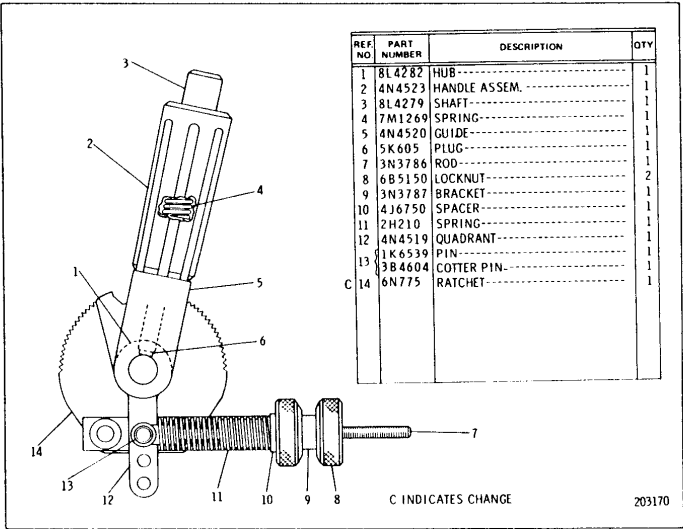




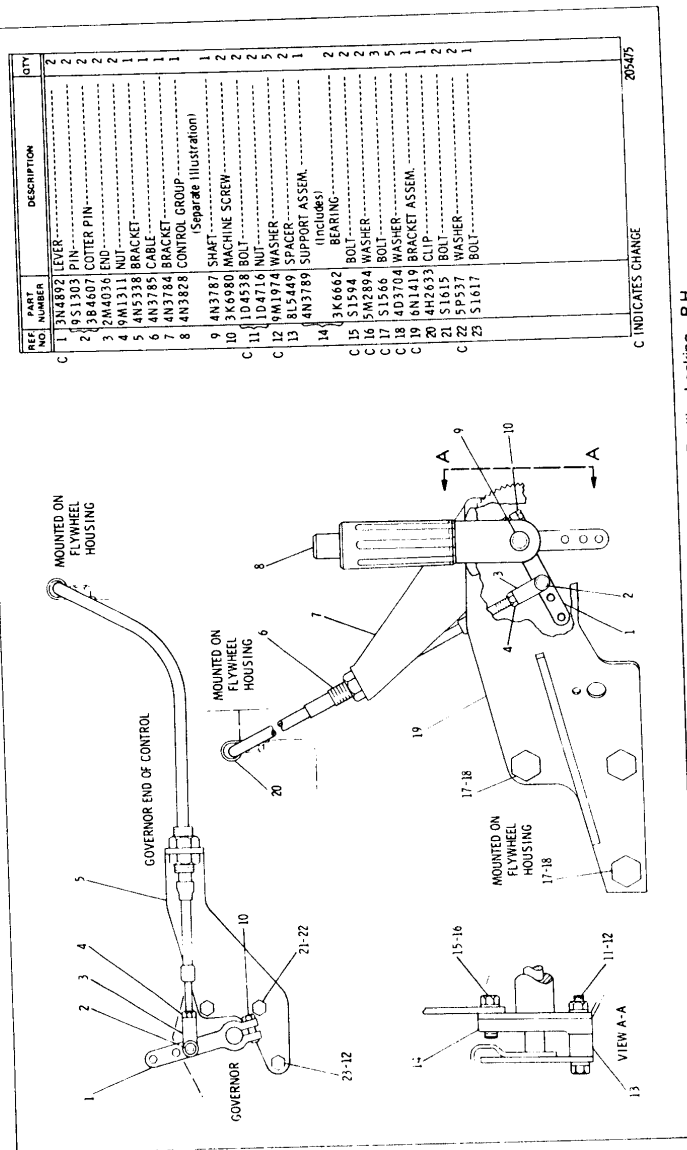
4N3791 GOVERNOR CONTROL GROUP—Vernier and Positive Locking—R.H.
AN ATTACHMENT



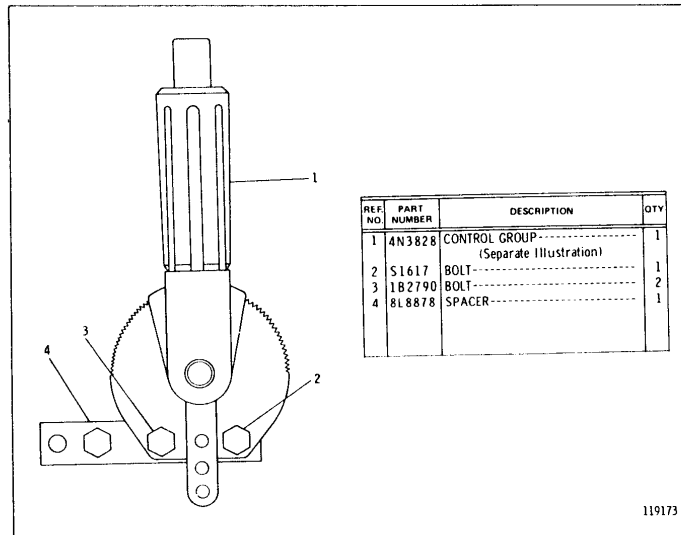
4N3831 GOVERNOR CONTROL GROUP—Vernier and Positive
Locking—L.H.
AN ATTACHMENT



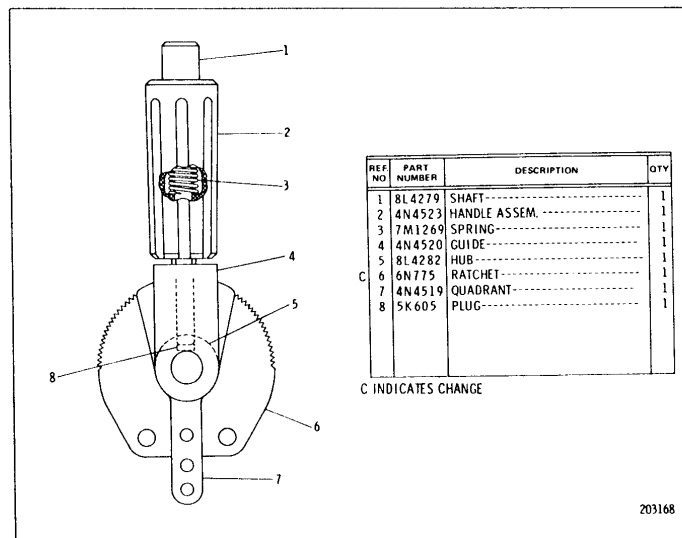
4N3829 GOVERNOR CONTROL GROUP—Vernier and Positive Locking
Part of 4N3791 and 4N3831 Governor Control Groups



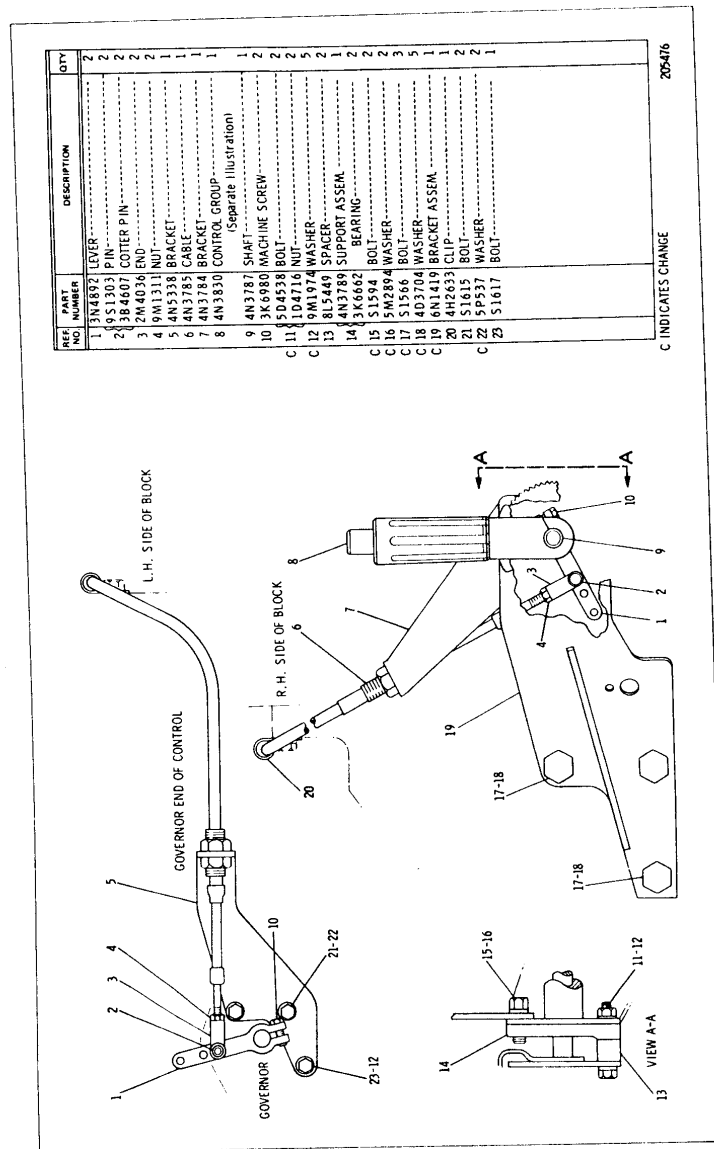
4N3832 GOVERNOR CONTROL GROUP—Remote and Positive Locking—R.H.
AN ATTACHMENT



4N3834 GOVERNOR CONTROL GROUP—Remote and Positive Locking—L.H.
AN ATTACHMENT



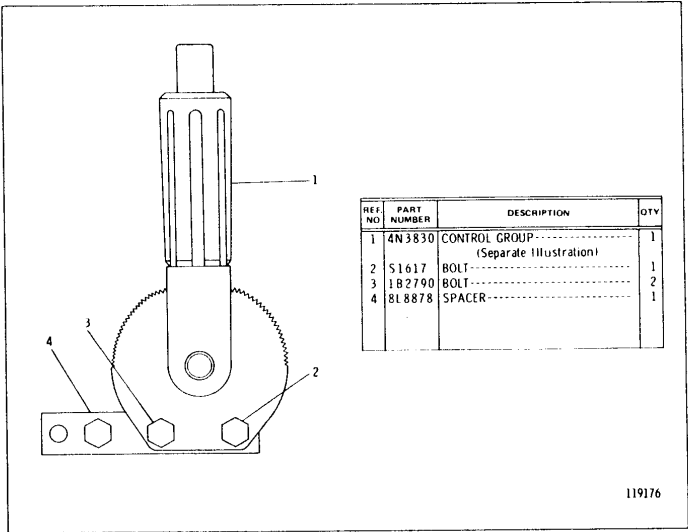
4N3828 GOVERNOR CONTROL
Part of 4N3832 and 4N3834 Governor Control Groups



C INDICATES CHANGE

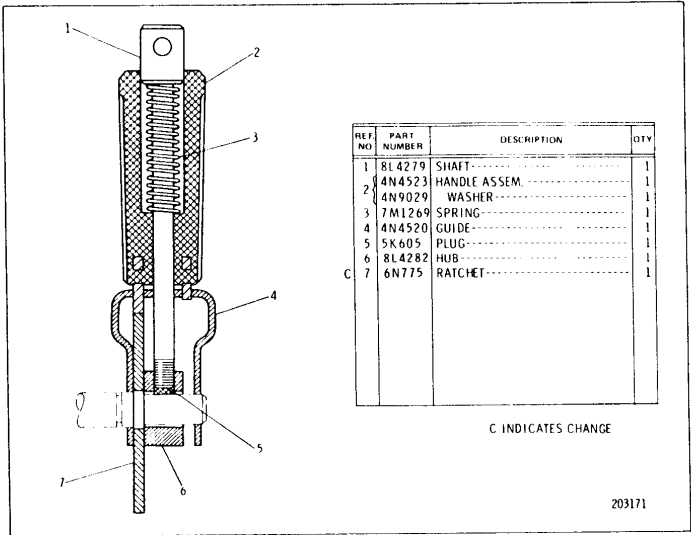
205476

4N3833 GOVERNOR CONTROL GROUP—Positive Locking—R.H.
AN ATTACHMENT



4N3835 GOVERNOR CONTROL GROUP—Positive Locking—L.H.
AN ATTACHMENT

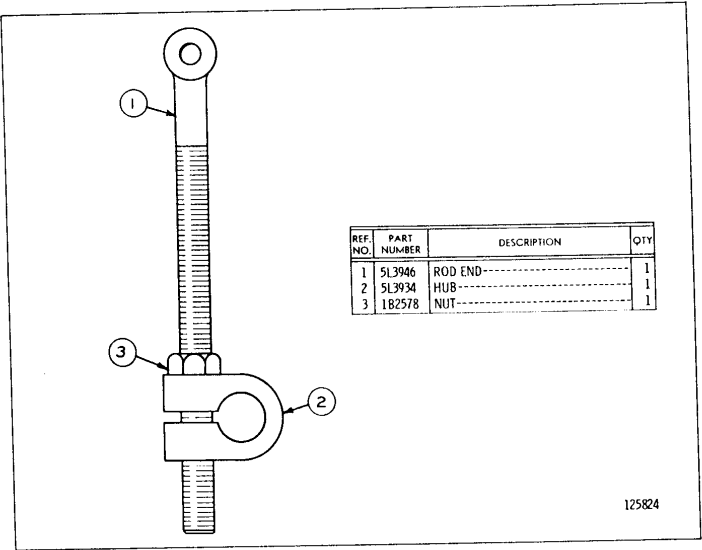
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	4N3830	CONTROL GROUP----- (Separate Illustration)	1
2	51617	BOLT-----	1
3	1B2790	BOLT-----	2
4	8L8878	SPACER-----	1



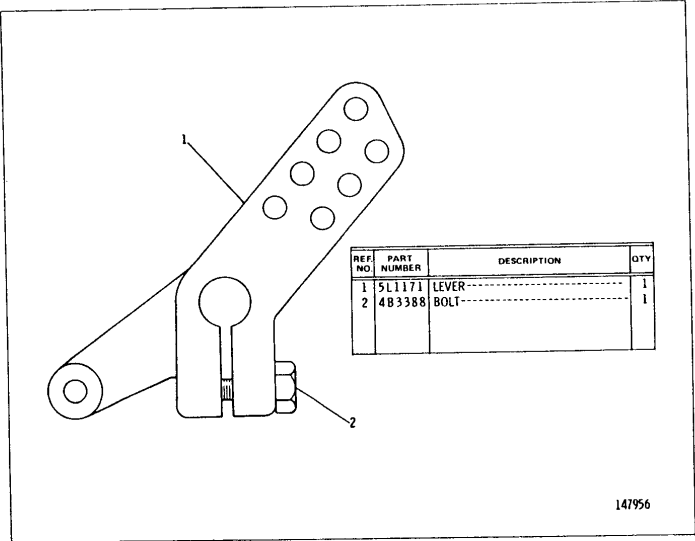
4N3830 GOVERNOR CONTROL GROUP—Positive Locking
Part of 4N3833 and 4N3835 Governor Control Groups

REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	8L4279	SHAFT-----	1
2	4N4523	HANDLE ASSEM.-----	1
3	4N9029	WASHER-----	1
3	7M1269	SPRING-----	1
4	4N4520	GUIDE-----	1
5	5K605	PLUG-----	1
6	8L4282	HUB-----	1
C 7	6N775	RATCHET-----	1

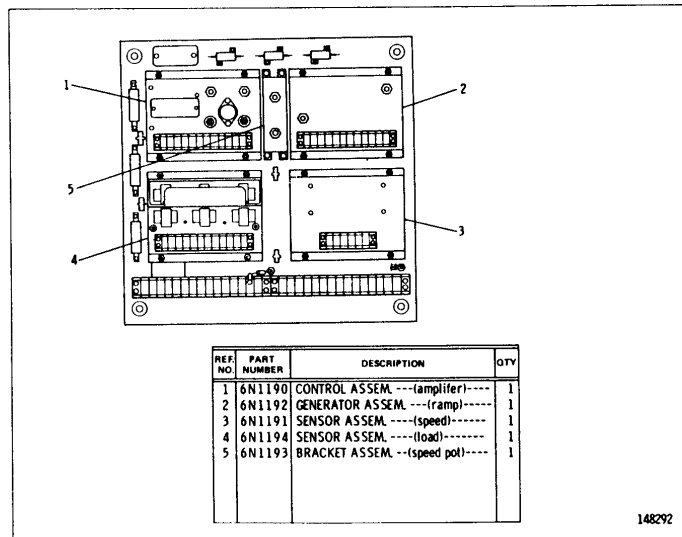
C INDICATES CHANGE



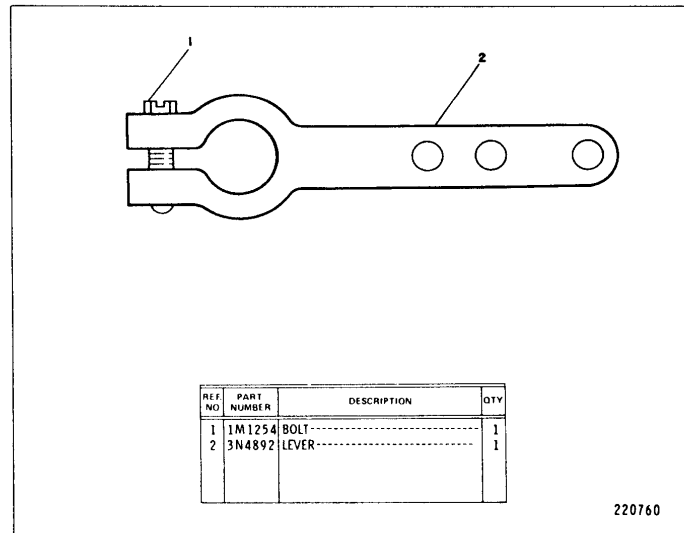
1N5331 GOVERNOR CONTROL GROUP
AN ATTACHMENT



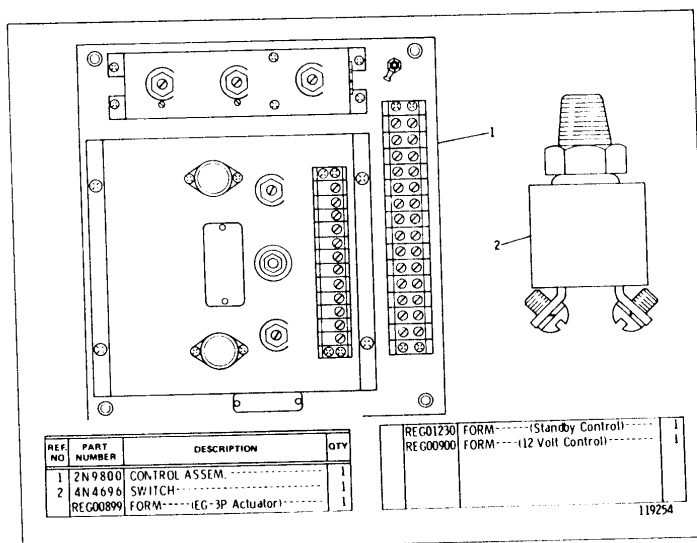
3N7741 GOVERNOR CONTROL GROUP
AN ATTACHMENT



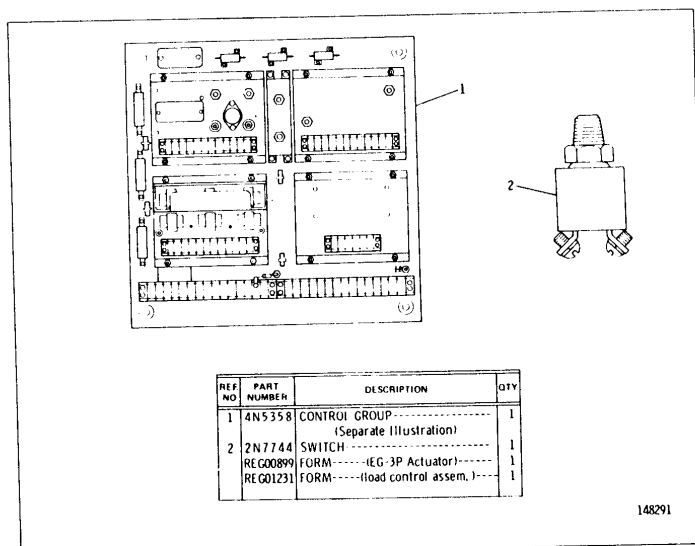
4N5358 GOVERNOR CONTROL GROUP—120-280—Loading Sharing
Part of 4N5326 Governor Control Group shown on Page 128



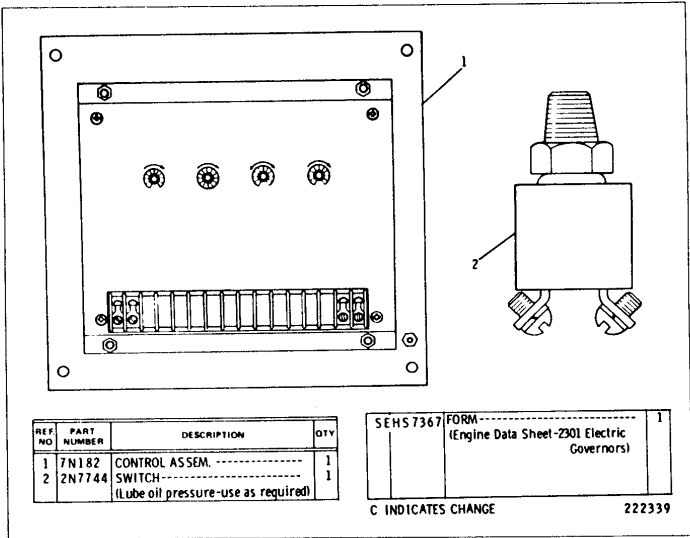
8N2177 GOVERNOR CONTROL GROUP
Provides Three Hole Governor Control Lever
AN ATTACHMENT



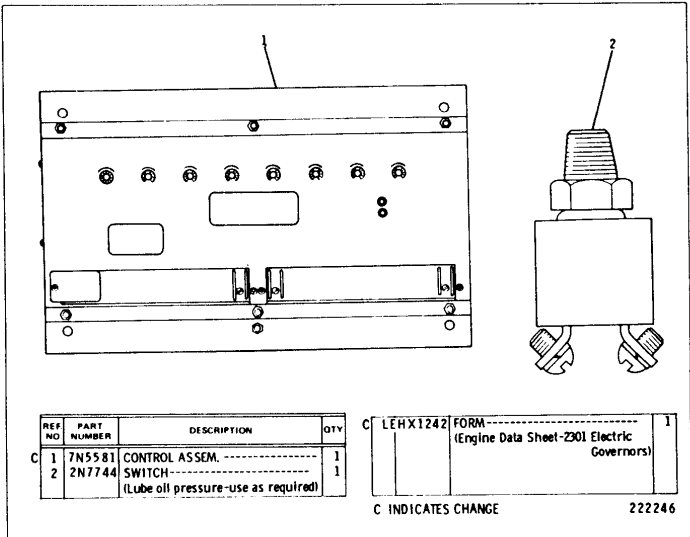
4N5325 GOVERNOR CONTROL GROUP—Standby
 Replaced by 7N240 shown on Page 128A
 AN ATTACHMENT



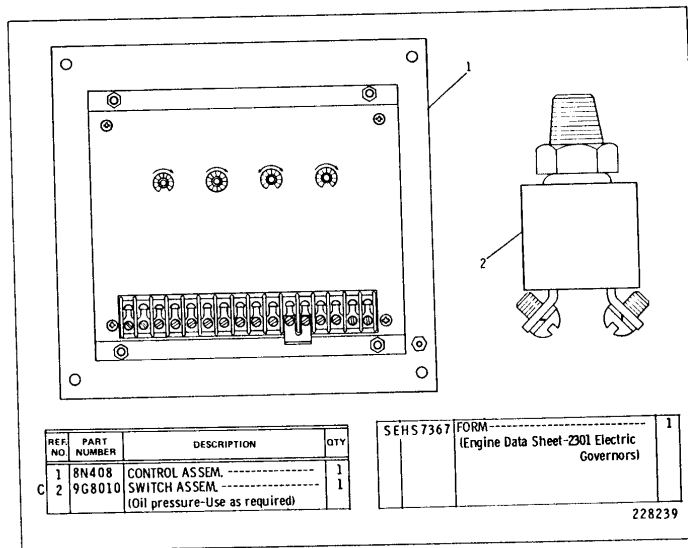
4N5326 GOVERNOR CONTROL GROUP—Load Sharing
 Replaced by 7N241 shown on Page 128A
 4N5358 Control parts are shown on Page 127B
 AN ATTACHMENT



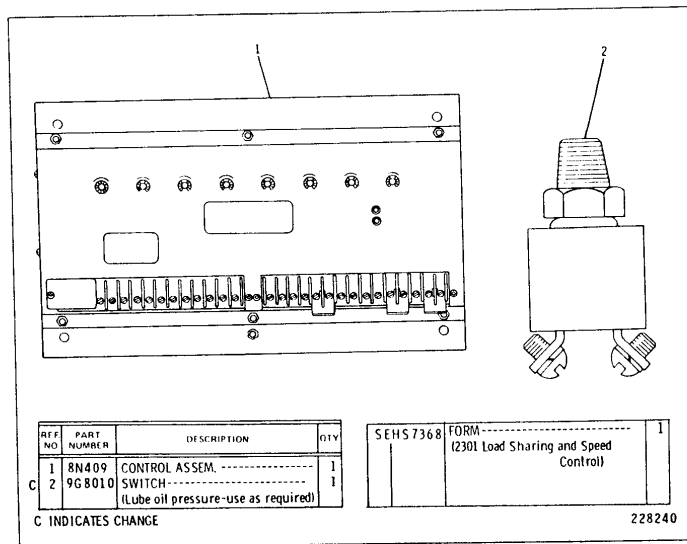
7N240 GOVERNOR CONTROL GROUP—Standby
Replaced by 8N1731 shown on Page 128B
AN ATTACHMENT



7N241 GOVERNOR CONTROL GROUP—Load Sharing
Replaced by 8N1730 shown on Page 128B



BN1731 GOVERNOR CONTROL GROUP—Standby
AN ATTACHMENT



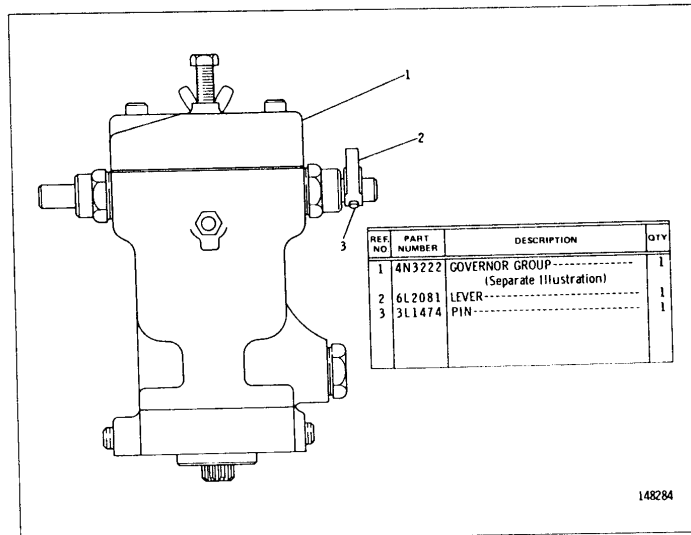
BN1730 GOVERNOR CONTROL GROUP—Load Sharing
AN ATTACHMENT

CONSISTS OF:		PAGE
1	4N852 WOODWARD GOVERNOR DRIVE GROUP.....	132
1	4N6397 WOODWARD GOVERNOR GROUP.....	130

4N3224 WOODWARD GOVERNOR ARRANGEMENT—Without Motor
Provides Isochronous Control for Electric Set Applications
Only separate parts serviced. AN ATTACHMENT

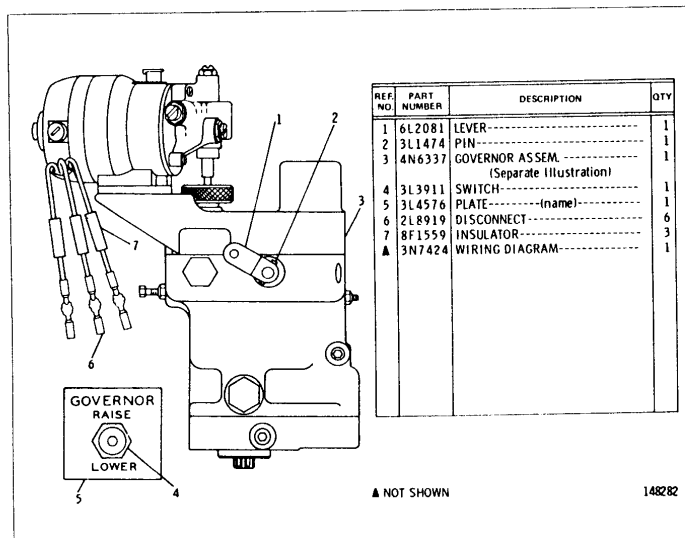
CONSISTS OF:		PAGE
1	4N852 WOODWARD GOVERNOR DRIVE GROUP.....	132
1	4N1416 WOODWARD GOVERNOR GROUP.....	130

4N4829 WOODWARD GOVERNOR ARRANGEMENT—With Motor
Provides Isochronous Control for Electric Set Applications
Only separate parts serviced. AN ATTACHMENT



4N3697 WOODWARD GOVERNOR GROUP

Also part of 4N3224 Woodward Governor Arrangement listed on Page 129
AN ATTACHMENT



4N1416 WOODWARD GOVERNOR GROUP

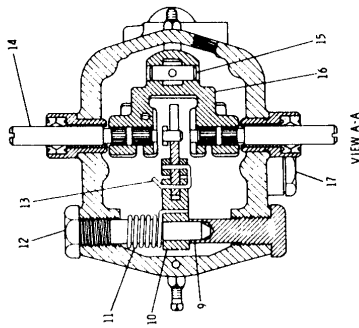
Also part of 4N4829 Woodward Governor Arrangement listed on Page 129
4N6337 Governor parts are shown on Page 131. AN ATTACHMENT

4N3222 WOODWARD GOVERNOR GROUP—Type 1
Part of 4N3697 Woodward Governor Group

REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	3F7674	NUT	1
2	3N5761	SCREW	1
3	3N4219	BRACKET ASSEM.	1
4	3N5724	COVER	1
5	3N5723	SPRING	1
6	2F2293	GASKET	2
7	3N5722	CAP	1
8	3N5726	SEAT	1
9	6L3987	SHAFT	1
10	3N5720	LINK ASSEM.	1
11	6L3991	SPRING	1
12	6L4005	SPACER	1
13	2N1894	PIN	2
14	6L9838	SHAFT	1
15	3N5726	PIN	1
16	3N5730	LEVER ASSEM.	1
17	6L4007	VALVE ASSEM.	1
18	6L4004	SCREW	1
19	3N5721	PISTON	1
20	3N5721	PISTON	1
21	3N5721	PISTON	1
22	6L3990	SPRING	2
23	6L3997	PISTON	1
24	7L3107	BASE ASSEM.	1
25	6L3995	SEAT	1
26	6L3983	GEAR	1
27	6L4003	BUSHING	1
28	6L3994	PLUNGER	1
29	2N6223	BALLHEAD ASSEM.	1
30	6L3989	BEARING	1
31	6L3996	SEAT	1
32	2N1021	SPRING AND FORK ASSEM.	1

C INDICATES CHANGE

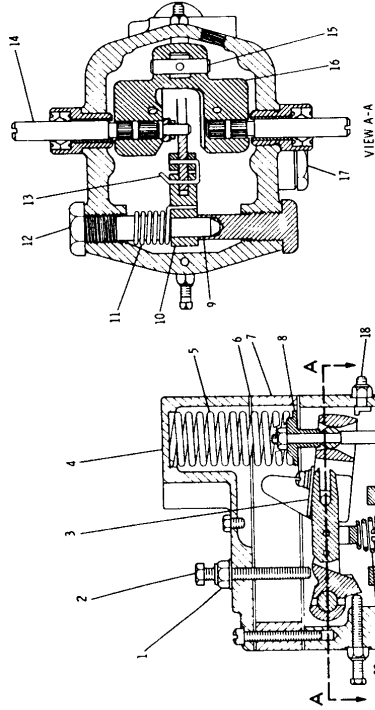
20497



THE FOLLOWING REPAIR KIT IS AVAILABLE:

3N5899-KIT (hardware)
(Consists of Bearings, Shims, Pins, Seals, Packing, Washers, Lockwashers, Screws, Nuts, Rings, Ballarms, Gaskets, Valve, Plunger and Bushing)

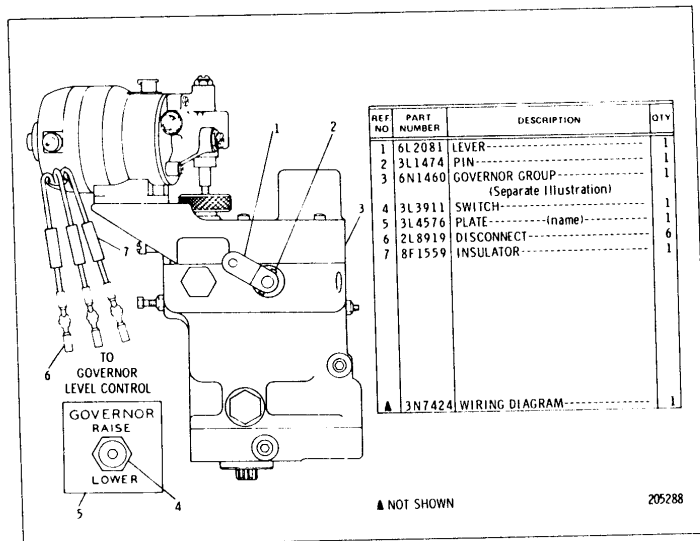
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	3T7574	NUT	1
2	3N3955	BOLT	1
3	3N4219	BRACKET ASSEM.	1
4	3N7724	COVER	1
5	3N7723	SPRING	1
6	2F2263	GASKET	2
7	7N4689	CAP ASSEM.	1
8	3N5729	SEAT	1
9	6L3987	SHAFT	1
10	3N5720	LINK ASSEM.	1
11	6L3991	SPRING	1
12	6L4005	SPACER	1
13	2N1894	PIN	2
14	6L9838	SHAFT	1
15	6N7530	PIN	1
16	1W4891	LEVER ASSEM.	1
17	6L4007	VALVE ASSEM.	1
18	8N2276	STOP ASSEM.	1
19	3N5728	STRUT	1
20	3N5727	PISTON	1
21	3N5721	CASE ASSEM.	1
22	6L3990	SPRING	2
23	6L3997	PISTON	1
24	7L3107	BASE ASSEM.	1
25	6L3995	SEAT	1
26	6L3983	GEAR	1
27	6L4003	BUSHING	1
28	6L3994	PLUNGER	1
29	7N1	BALLHEAD ASSEM.	1
30	7N4533	BEARING	1
31	6L3996	SEAT	1
32	2N1021	SPRING AND FORK ASSEM.	1
C INDICATES CHANGE			301555



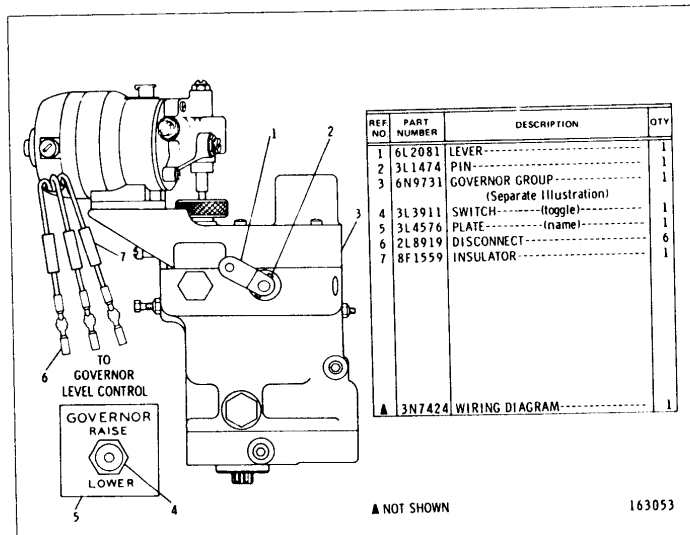
THE FOLLOWING REPAIR KIT IS AVAILABLE:

7N7390-KIT-----hardware-----IC
 (Consists of Bearings, Shims, Pins, Seals,
 Packing, Washers, Lockwashers, Screws, Nuts,
 Rings, Ballarms, Gaskets, Valve, Plunger and
 Bushing)

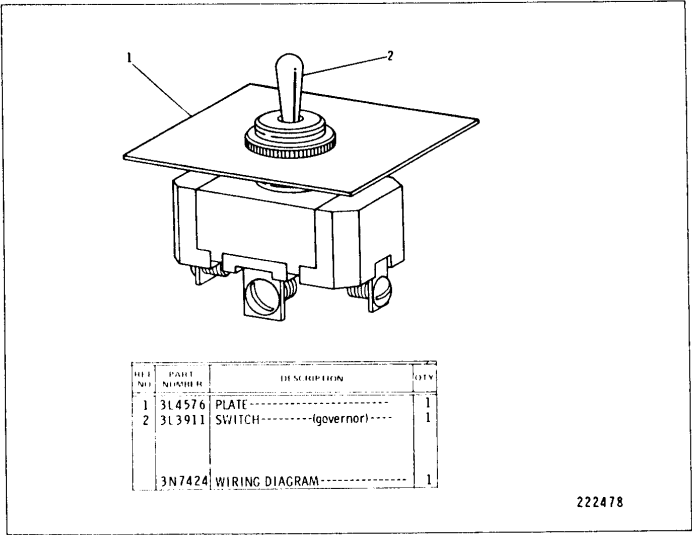
4N3222 WOODWARD GOVERNOR GROUP—Type 2
 Part of 4N3897 Woodward Governor Group



6N3227 WOODWARD GOVERNOR GROUP
 Replaced by 6N9734 shown on Page 130B
 6N1460 Governor Parts are shown on Page 130C

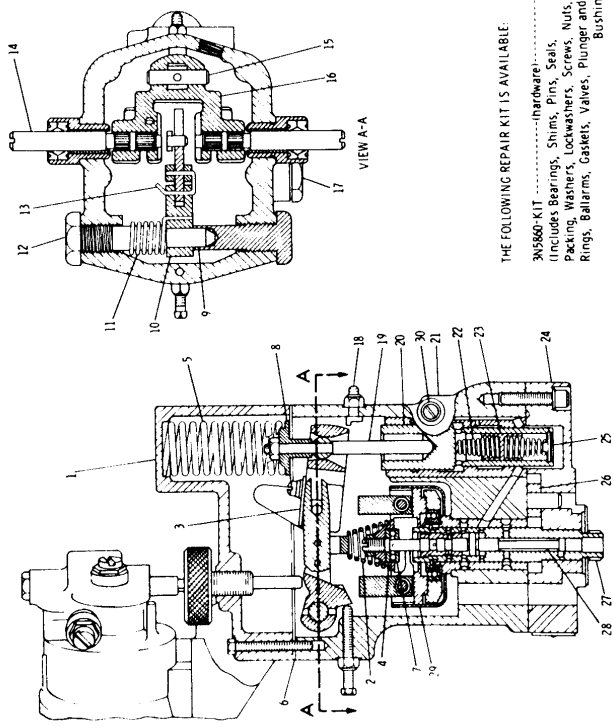


6N9734 WOODWARD GOVERNOR GROUP
 6N9731 Governor parts are shown on Page 130D
 AN ATTACHMENT



8N1635 WOODWARD GOVERNOR SWITCH GROUP
FOR USE WITH WOODWARD PSG GOVERNOR & WOODWARD EG3P
WOODWARD ELECTRIC GOVERNOR. AN ATTACHMENT

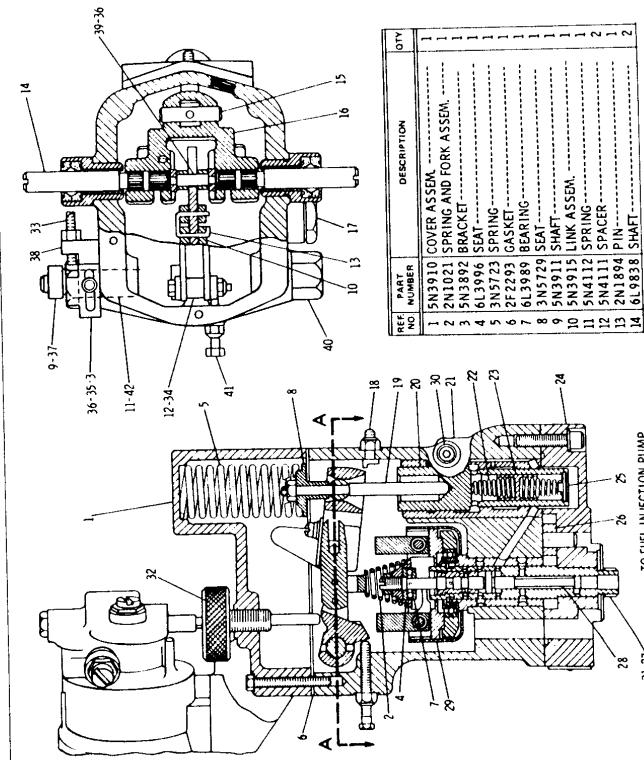
6N1460 WOODWARD GOVERNOR GROUP
 Replaced by 6N9731 shown on Page 130D
 Part of 6N3227 Woodward Governor Group shown on Page 130B



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	6N1539	COVER ASSEM.	1
2	2N1021	SPRING AND FORK ASSEM.	1
3	3N4219	BRACKET ASSEM.	1
4	6L3996	SEAT	1
5	3N5723	SPRING	1
6	2F2293	GASKET	1
7	6L3989	BEARING	1
8	3N5729	SEAT	1
9	6L3987	SHAFT	1
10	3N5720	LINK ASSEM.	1
11	6L3991	SPRING	1
12	6L4005	SPACER	2
13	2N1894	PIN	2
14	6L9838	SHAFT	1
15	3N7530	PIN	1
16	3N5730	LEVER ASSEM.	1
17	6L4007	WASHER	1
18	6L4004	SCREW	1
19	3N5727	STRUT	1
20	3N5721	PISTON	1
21	3N5721	CASE ASSEM.	1
22	6L3990	SPRING	2
23	6L3980	PISTON	1
24	7L3107	BASE ASSEM.	1
25	6L3995	SEAT	1
26	6L3983	GEAR	1
27	6L4003	BUSHING	1
28	6L3994	PLUNGER	1
29	2N6223	BALLHEAD ASSEM.	1
30	6N7531	VALVE	1
C	3N5860	REPAIR KIT (needle)	1

C INDICATES CHANGE

162805



15	3N7530	PIN	1
16	3N5730	LEVER	1
17	6L4007	VALVE ASSEM.	1
18	6L4004	SCREW	1
19	3N5728	STRUT	1
20	3N5727	PISTON	1
21	5N3912	CASE ASSEM.	1
22	6L3990	SPRING	2
23	6L3997	PISTON	1
24	7L3107	BASE ASSEM.	1
25	6L3995	SEAT	1
26	6L3983	GEAR	1
27	6L4003	BUSHING	1
28	6L3994	PUNGER	1
29	7N1	BALLHEAD ASSEM.	1
30	5N3908	PLUG	1
31	5N3889	VALVE	1
32	6L3992	BUSHING	1
33	5N3909	CLUTCH ASSEM.	1
34	5N3883	SCREW	1
35	4B2043	NUT	1
36	5N3885	LINK	1
37	5N3888	SCREW	1
38	5N3891	WASHER	1
39	5N3913	LEVER	1
40	5N3893	BRACKET	1
41	5N3887	PIN	2
42	5N3881	BLOCK	1
43	6F3901	SLEEVE ASSEM.	1
44	5N3890	SCREW	1
45	5N3886	SCREW	1
46	5N3916	SLEEVE ASSEM.	1

THE FOLLOWING REPAIR KIT IS AVAILABLE:

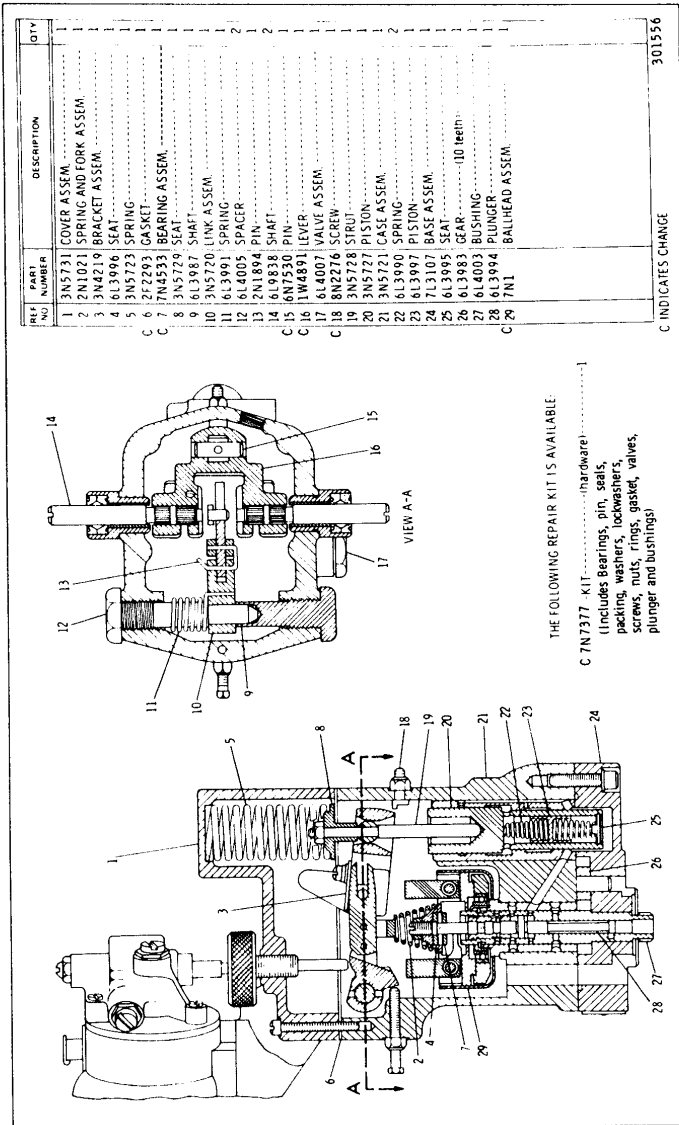
5N3972 KIT (includes bearing, pins, seals, nuts, washers, lockwashers, screws, rings, gaskets, valve plugs & seat)

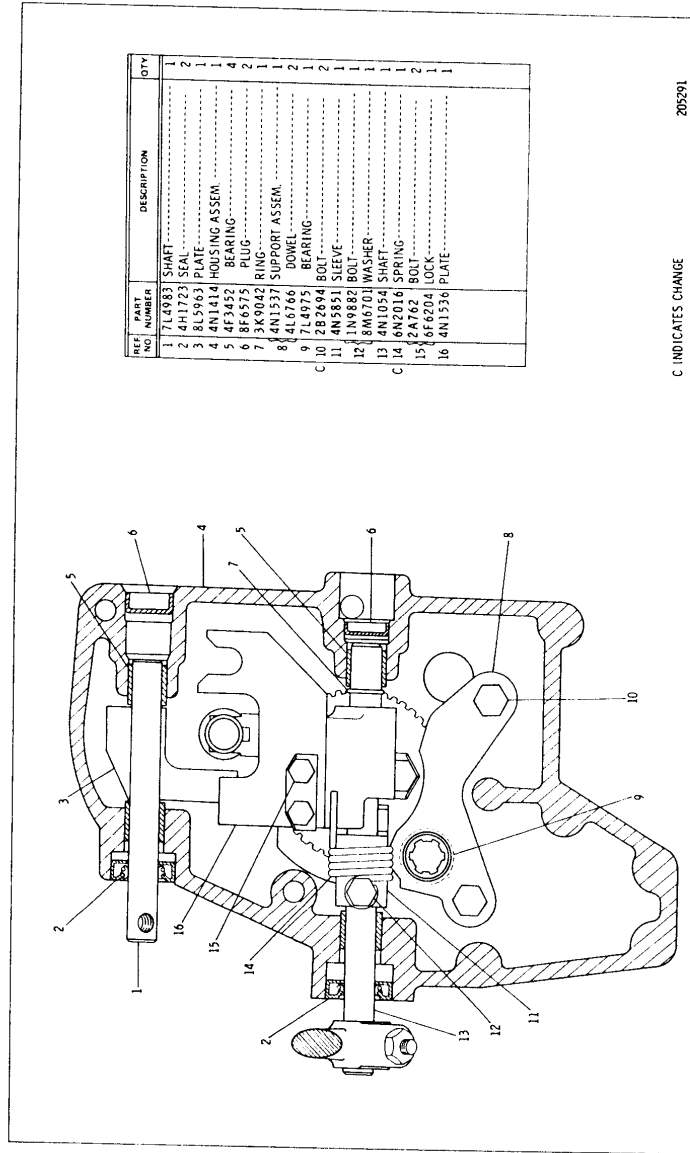
163662

C INDICATES CHANGE

6N9731 WOODWARD GOVERNOR GROUP
Part of 6N9734 Woodward Governor Group shown on Page 130B

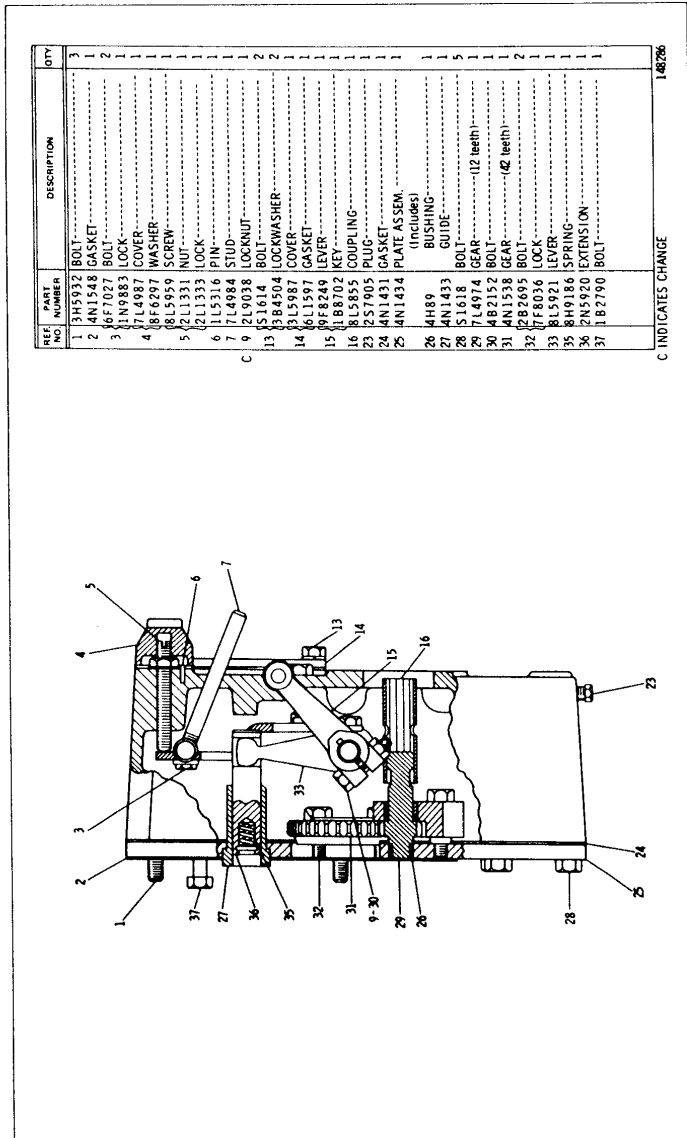
4N6337 WOODWARD GOVERNOR GROUP
Part of 4N1416 Woodward Governor Group shown on Page 130





4N852 WOODWARD GOVERNOR DRIVE GROUP—Part 1
 Also part of 4N3224 and 4N4829 Woodward Governor Arrangements listed on Page 129
 AN ATTACHMENT

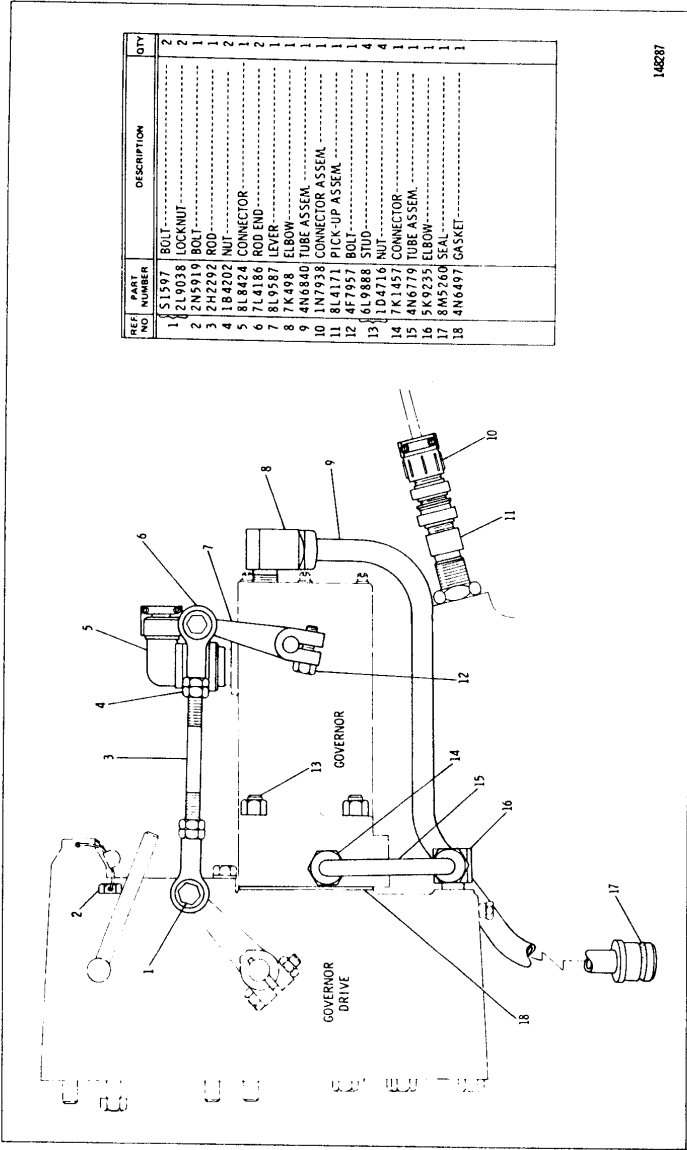
4N852 WOODWARD GOVERNOR DRIVE GROUP—Part 2
Also part of 4N3224 and 4N4829 Woodward Governor Arrangements listed on Page 129
AN ATTACHMENT



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	3H5932	BOLT	3
2	4N1548	GASKET	1
3	46F7027	BOLT	2
4	1N9883	LOCK	1
5	7L4987	COVER	1
6	8F6297	WASHER	1
7	8L5959	SCREW	1
8	72L1331	NUT	1
9	72L1333	LOCK	1
10	1L5316	PIN	1
11	7L4984	STUD	1
12	72L9038	LOCKNUT	2
13	4S1614	BOLT	2
14	384504	LOCKWASHER	2
15	3L5987	COVER	1
16	46L578	GASKET	1
17	8L5248	LEVER	1
18	188702	KEY	1
19	8L5855	COUPLING	1
20	2357905	PLUG	1
21	4N1431	GASKET	1
22	4N1434	PLATE ASSEM. (Includes)	1
23	4H89	BUSHING	1
24	4N1433	GUIDE	1
25	28S1618	BOLT	5
26	7L4974	GEAR	1
27	4B2152	BOLT	1
28	4N1538	GEAR	1
29	282695	BOLT	2
30	7F8036	LOCK	1
31	8L5921	LEVER	1
32	8H9186	SPRING	1
33	2N5920	EXTENSION	1
34	1B2790	BOLT	1

C INDICATES CHANGE

148286

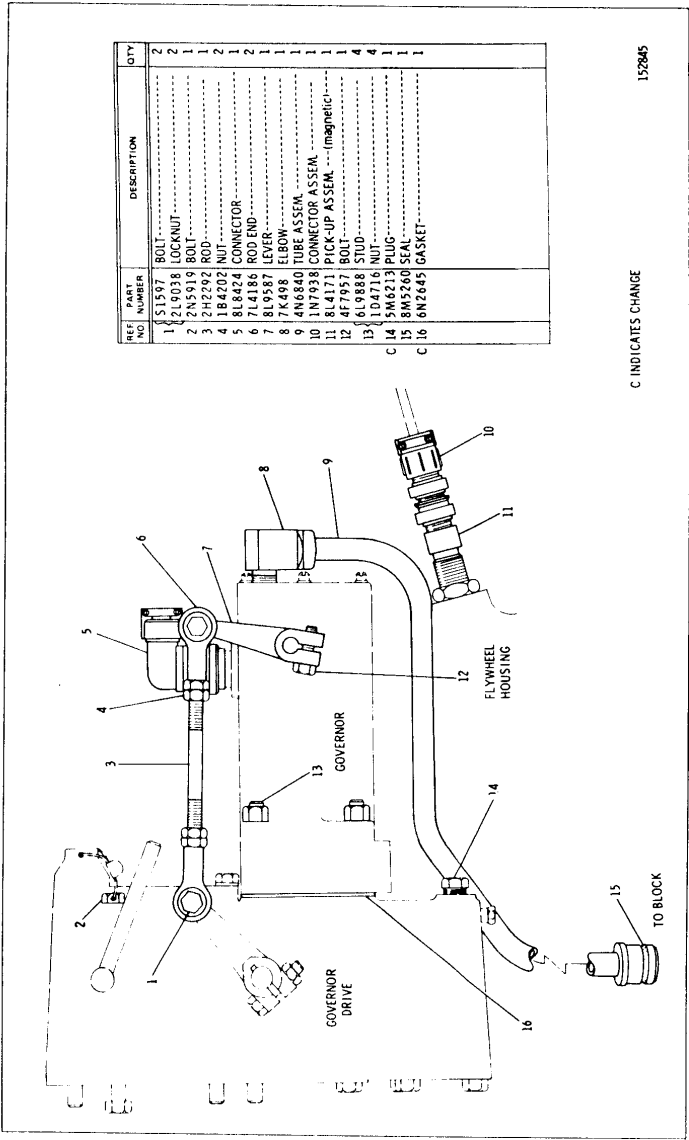


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	51597	BOLT	2
2	51598	LOCK NUT	2
3	51599	BOLT	1
4	24292	BOLT	1
5	84202	NUT	2
6	84204	CONNECTOR	2
7	7L4186	ROD END	2
8	819587	LEVER	1
9	7K498	ELBOW	1
10	4N6840	TUBE ASSEM.	1
11	1N7938	CONNECTOR ASSEM.	1
12	814171	PICK-UP ASSEM.	1
13	4F7957	BOLT	1
14	6L9888	STUD	4
15	1D4716	NUT	4
16	7K1457	CONNECTOR	1
17	4N6779	TUBE ASSEM.	1
18	5K9235	ELBOW	1
	8M5260	SEAL	1
	4N6497	GASKET	1

4N9889 FASTENER GROUP—Type 1
AN ATTACHMENT. Note: 6N7490 Actuator is available
FOR USE WITH ELECTRIC WOODWARD GOVERNOR

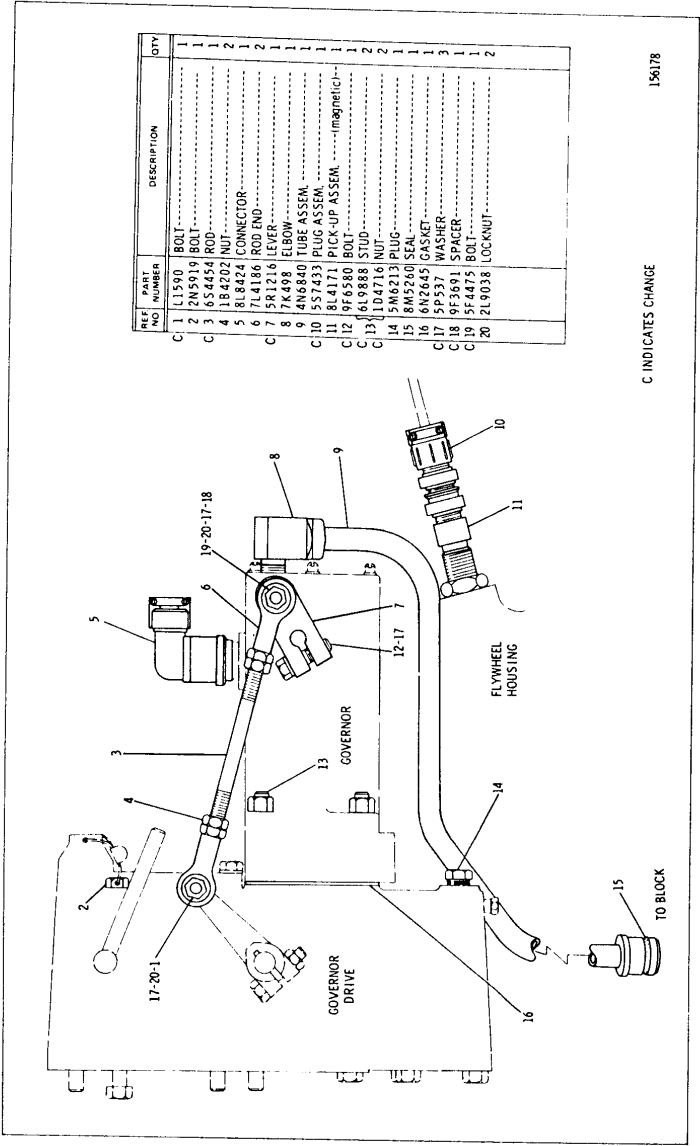
148287

4N9689 FASTENER GROUP—Type 2
AN ATTACHMENT. Note: 6N7490 Actuator is available
FOR USE WITH ELECTRIC WOODWARD GOVERNOR



C INDICATES CHANGE

152845



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
C 1	11590	BOLT	1
2	2N5919	BOLT	1
C 4	834454	ROD	1
5	864702	NUT	1
6	864702	CONNECTOR	1
7	758136	ROD END	1
8	758136	ROD END	1
9	4N6840	TUBE ASSEM.	1
C 10	557433	PICK-UP ASSEM.	1
C 11	814171	PICK-UP ASSEM.	1
C 12	9F6580	BOLT	1
C 13	619888	STUD	1
C 14	104716	NUT	1
15	5N6213	PLUG	2
16	8N5260	SEAL	1
17	6N2645	GASKET	1
C 18	5P537	WASHER	1
C 19	9F3691	SPACER	1
C 20	5F4475	BOLT	1
20	2L9038	LOCKNUT	2

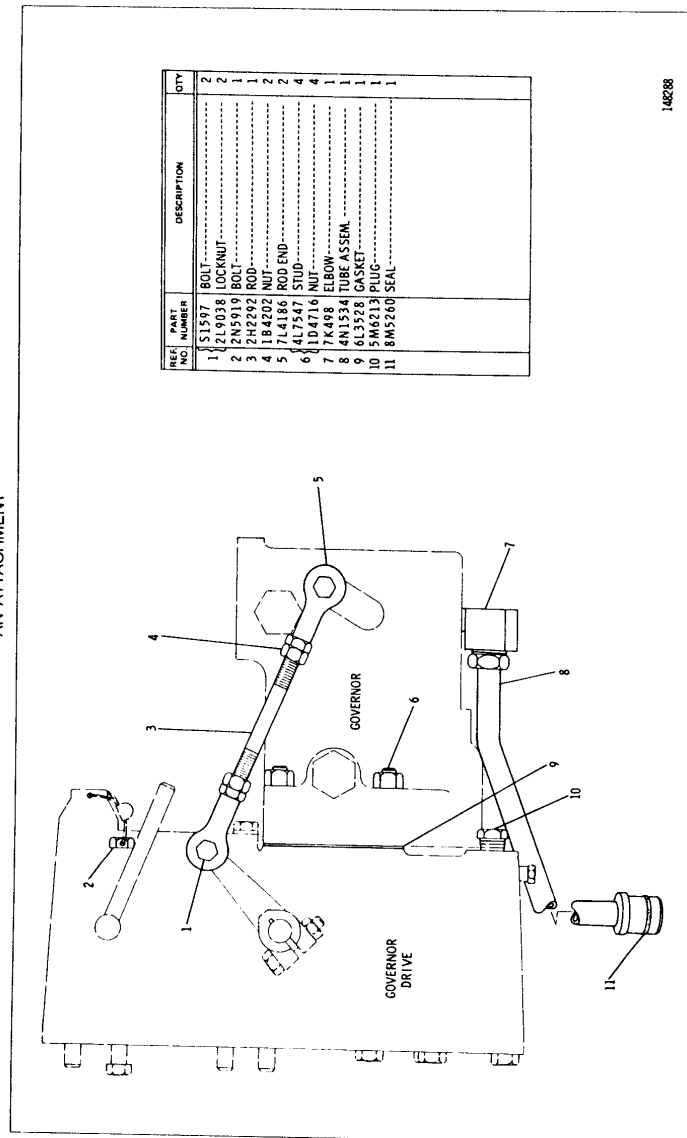
C INDICATES CHANGE

156078

4N9889 FASTENER GROUP—Type 3
FOR USE WITH ELECTRIC WOODWARD GOVERNOR
Note: 6N528 Actuator Assembly is available

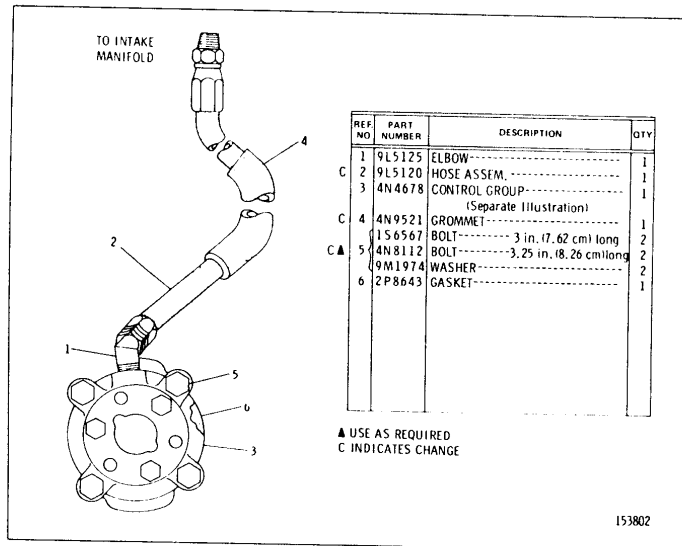
AN ATTACHMENT

4N9890 WOODWARD FASTENER GROUP
AN ATTACHMENT

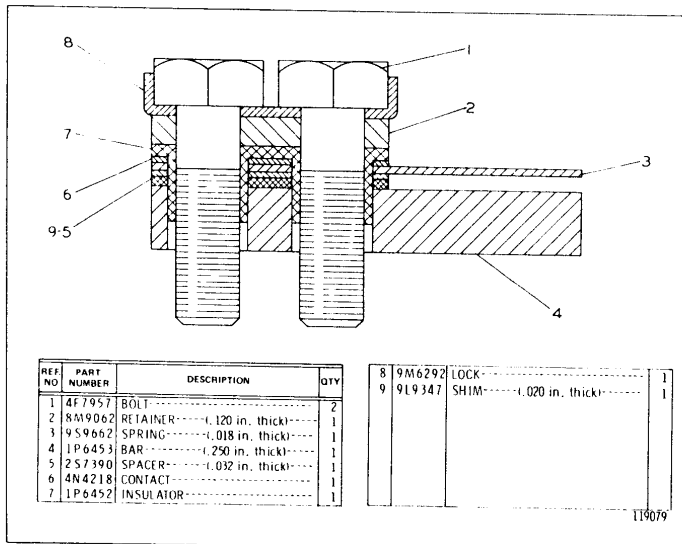


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	51597	BOLT	2
2	2L9038	LOCKNUT	2
3	2N5919	BOLT	1
4	2H2292	ROD	1
5	1B4202	NUT	2
6	7L4186	ROD END	2
7	4L7547	STUD	4
8	104716	NUT	4
9	7K498	ELBOW	1
10	4N1534	TUBE ASSEM.	1
11	6L3528	GASKET	1
	5M6213	PLUG	1
	8M5260	SEAL	1

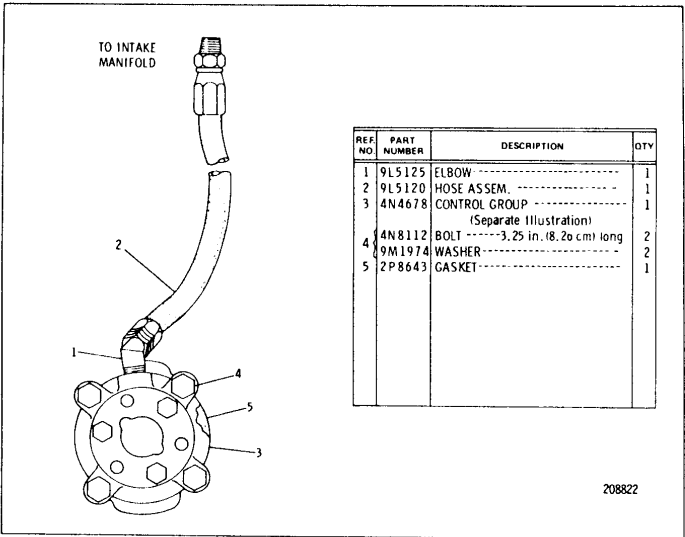
148288



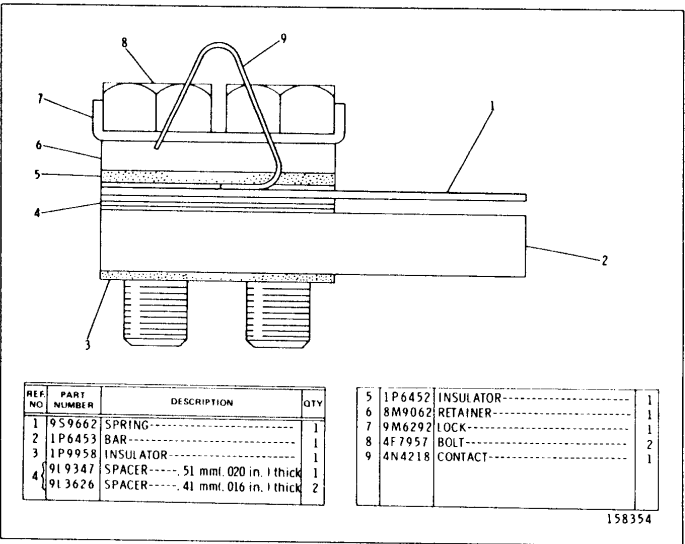
4N1210 FUEL RATIO CONTROL GROUP—Type 1
4N4678 Fuel Ratio Control Parts are shown on Page 135
AN ATTACHMENT



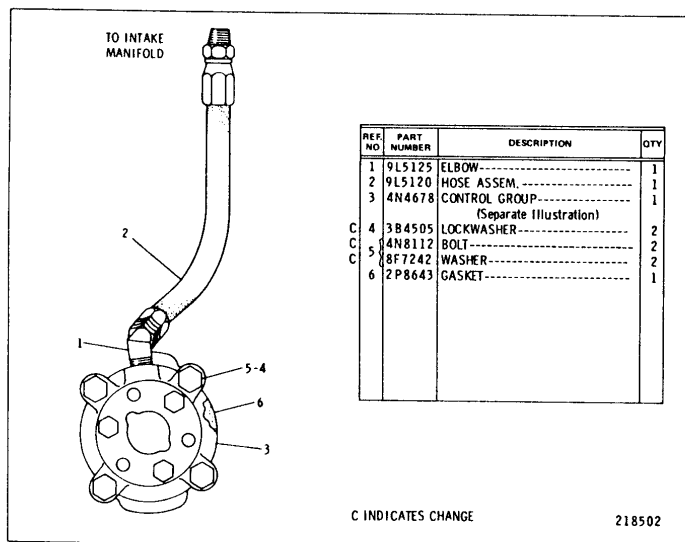
4N8346 TORQUE CONTROL GROUP—Type 1
AN ATTACHMENT



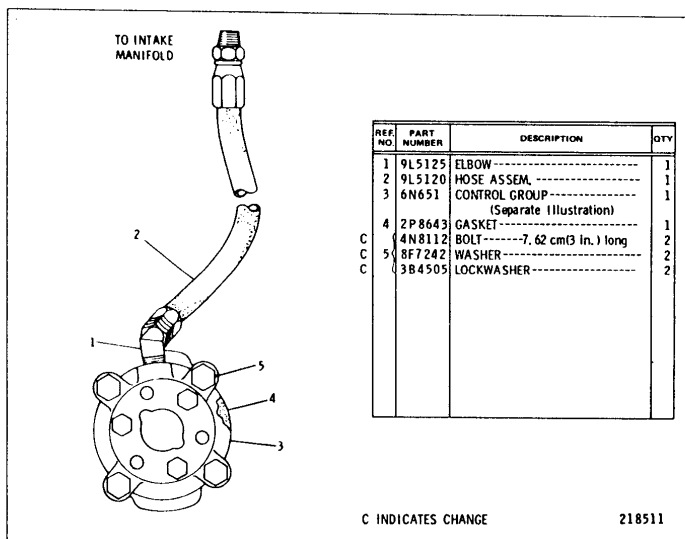
4N1210 FUEL RATIO CONTROL GROUP—Type 2
4N4678 Fuel Ratio Control parts are shown on Page 135
AN ATTACHMENT



4N8346 TORQUE CONTROL GROUP—Type 2
AN ATTACHMENT

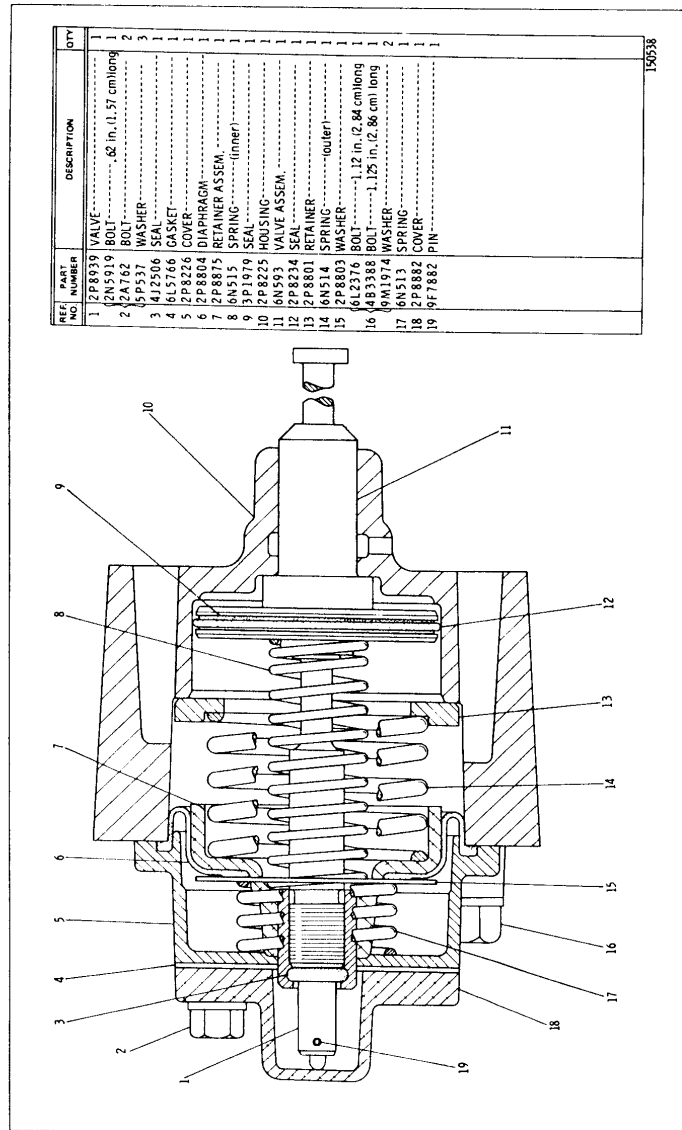


9N836 FUEL RATIO CONTROL GROUP
4N4678 Fuel Ratio Control parts are shown on Page 135
AN ATTACHMENT

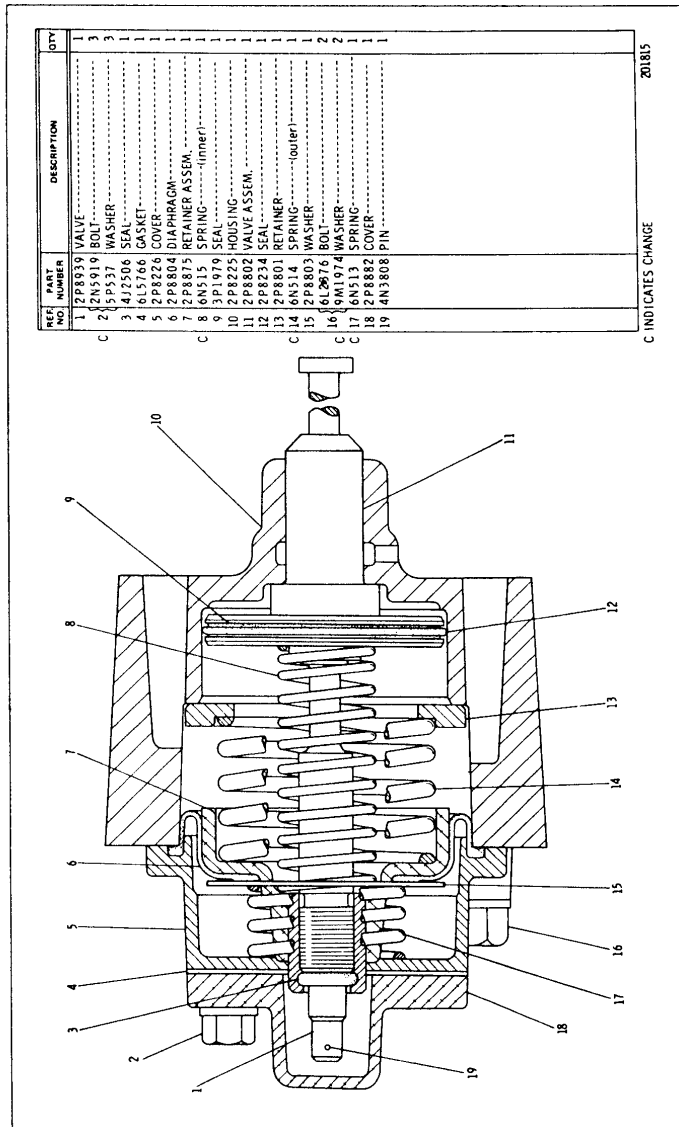


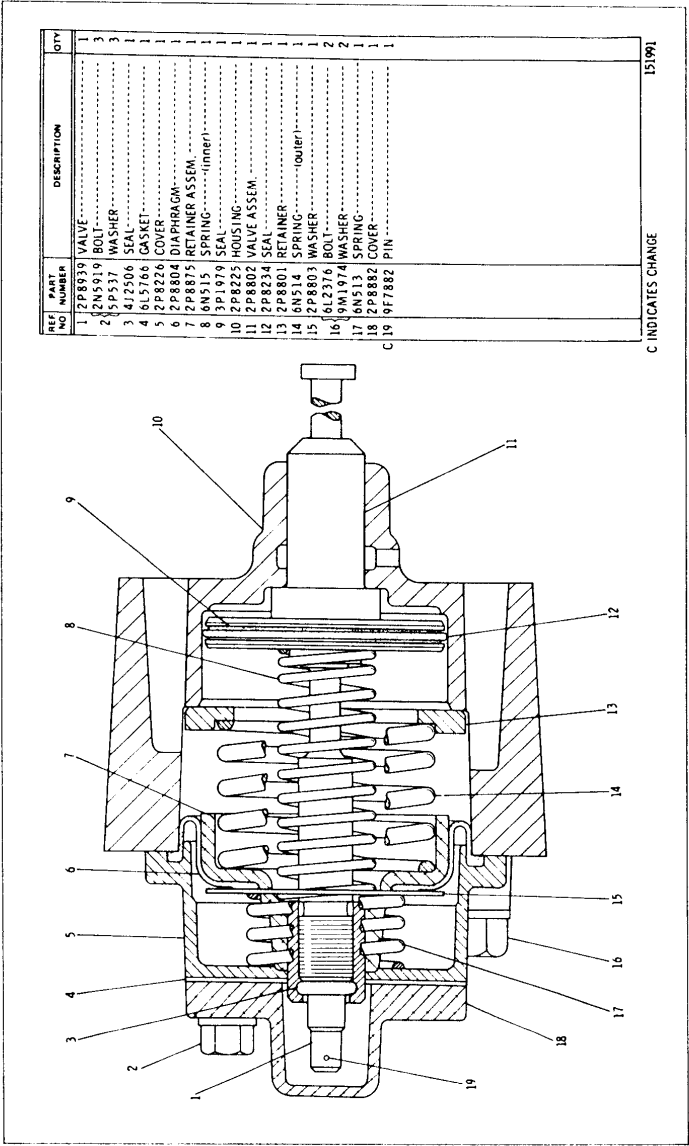
9N792 FUEL RATIO CONTROL
FACTORY INSTALLATION
6N651 Control parts are shown on Page 134C

6N651 FUEL RATIO CONTROL GROUP
Part of 9N792 Fuel Ratio Control Group shown on Page 134A



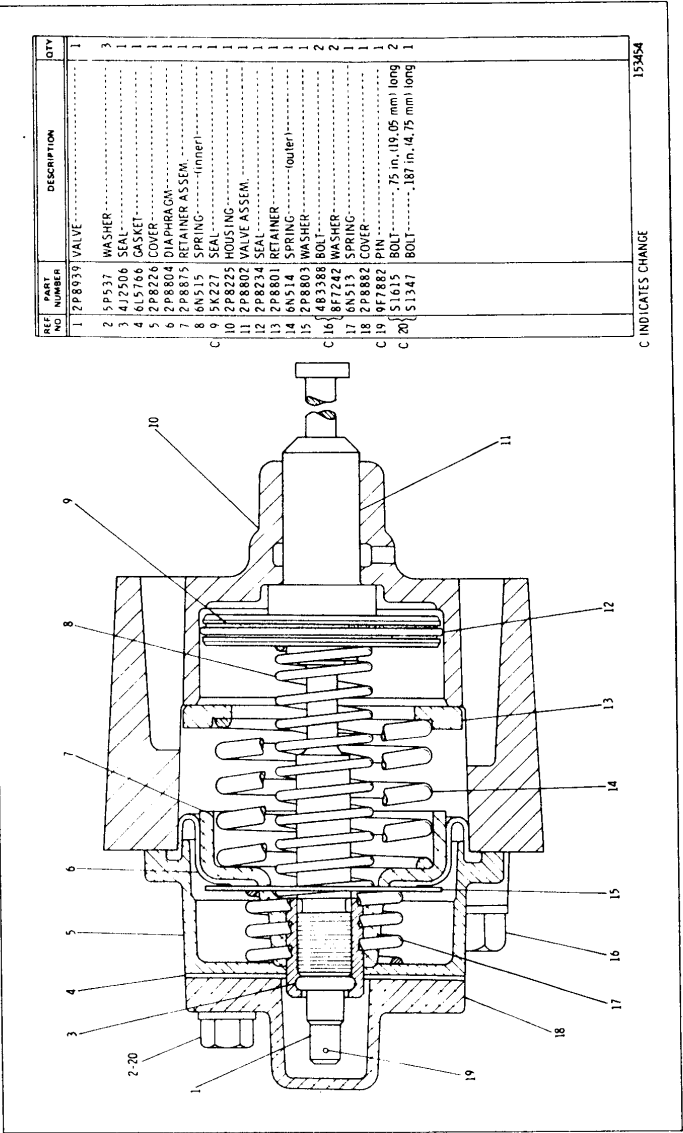
4N4678 FUEL RATIO CONTROL GROUP—Type 1
Part of 4N1210 and 9N836 Fuel Ratio Control Groups shown on Pages 134 and 134B

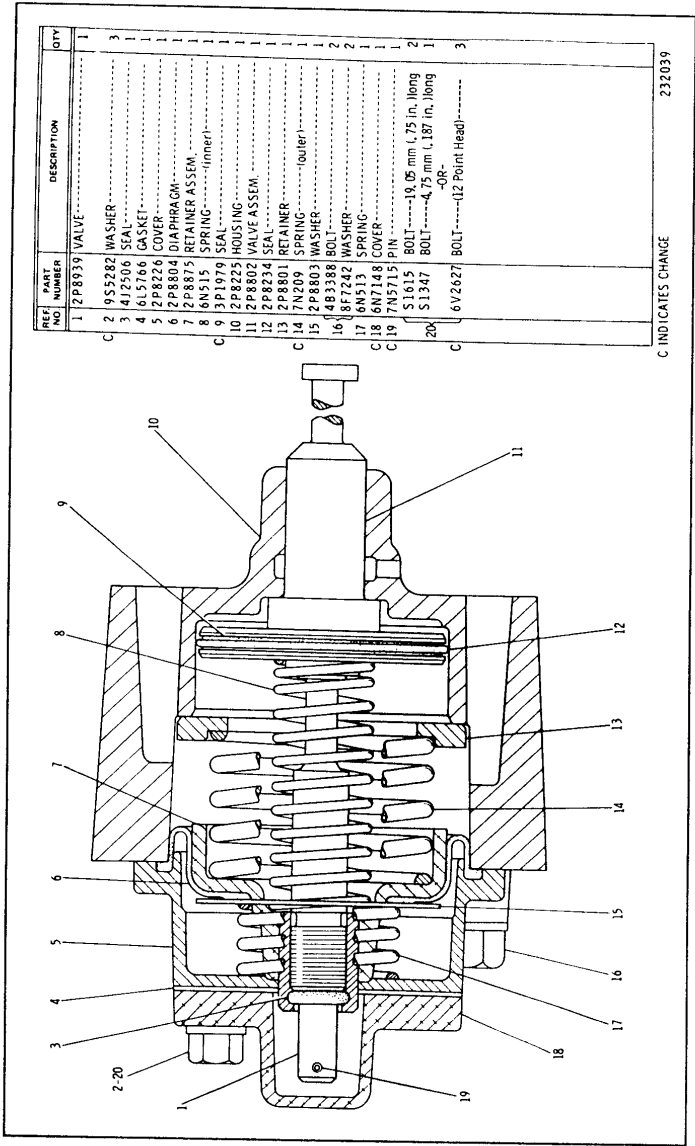




4N4678 FUEL RATIO CONTROL GROUP—Type 2
Part of 4N1210 and 9N836 Fuel Ratio Control Groups shown on Pages 134 and 134E

4N4678 FUEL RATIO CONTROL GROUP—Type 3
Part of 4N1210 and 9N836 Fuel Ratio Control Groups shown on Pages 134 and 134B





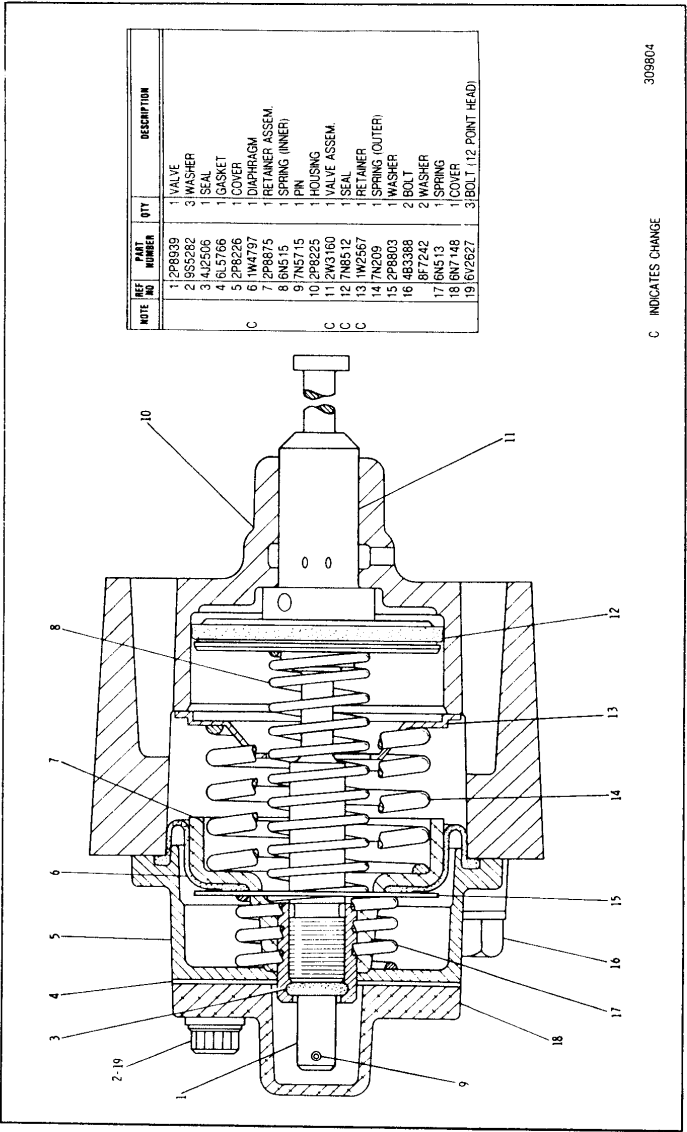
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	2P8939	VALVE	1
2	9S5282	WASHER	1
3	4J2506	SEAL	3
4	6L5766	GASKET	1
5	2P8226	COVER	1
6	2P8804	DIAPHRAGM	1
7	2P8875	RETAINER ASSEM.	1
8	6N515	SPRING	1
9	3P1979	SEAL	1
10	2P8225	HOUSING	1
11	2P8802	VALVE ASSEM.	1
12	2P8234	SEAL	1
13	7N5801	RETAINER	1
14	7N5801	SPRING	1
15	2P8803	WASHER	1
16	4B3388	BOLT	2
17	8F7242	WASHER	1
18	6N7148	COVER	1
19	7N5715	PIN	1
20	S1615	BOLT-----10.05 mm (.75 in. long)	2
	S1347	BOLT-----4.75 mm (.187 in. long)	1
	6V2627	BOLT-----(.12 Point Head)	3

C INDICATES CHANGE

237039

4N4678 FUEL RATIO CONTROL GROUP—Type 4
Part of 4N1210 and 9N836 Fuel Control Groups. AN ATTACHMENT

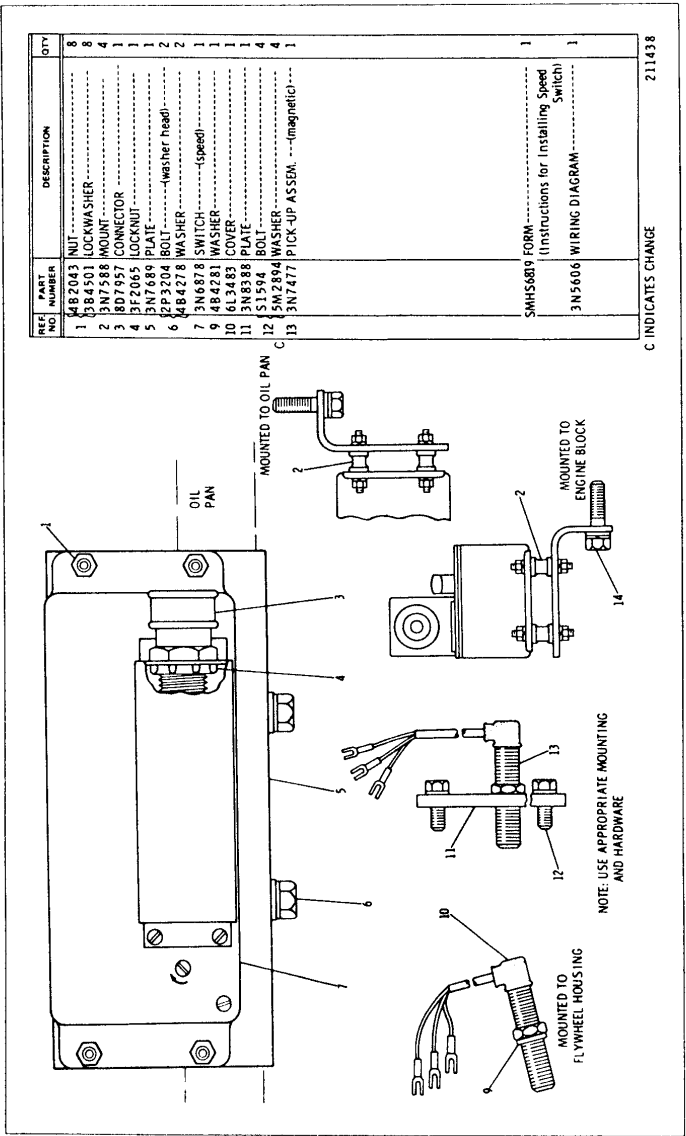
4N4678 FUEL RATIO CONTROL GROUP—Type 5
Part of 4N1210 and 9N836 Fuel Ratio Control Groups
AN ATTACHMENT



305804

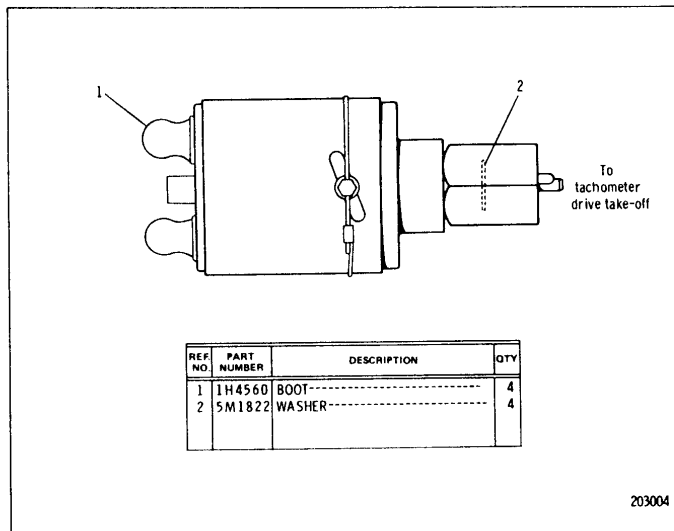
C INDICATES CHANGE

3N7478 OVERSPEED CONTACTOR GROUP—Type 2
Part of 3N8140, 3N8142, 3N8144, 3N8141, 3N8143 and 3N8145 Shut-Off Groups shown
on Pages 150, 150-1 and 150A. AN ATTACHMENT

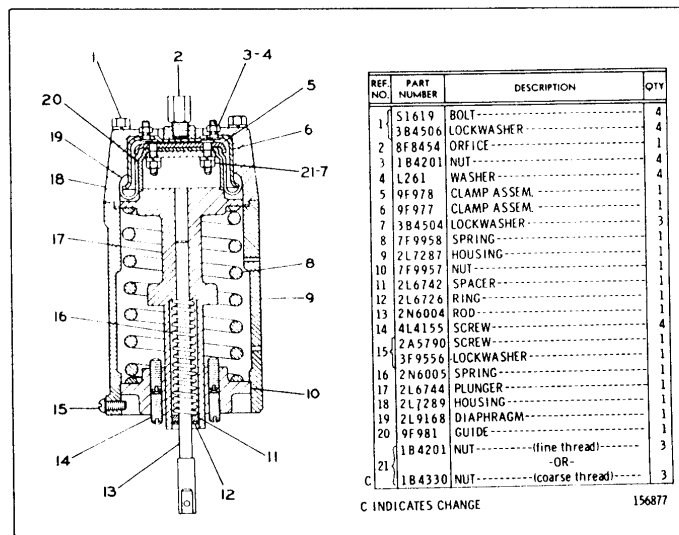


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	482043	NUT	8
2	384501	LOCKWASHER	8
3	3N7588	MOUNT	4
4	807957	CONNECTOR	1
5	3F2065	LOCKNUT	1
6	3N7689	PLATE	1
7	2P3204	BOLT	2
8	484278	WASHER	2
9	3N6878	SWITCH	1
10	484281	WASHER	1
11	6L3483	COVER	1
12	3N8388	PLATE	1
13	5M2894	BOLT	4
14	3N7477	PICK-UP ASSN.	1

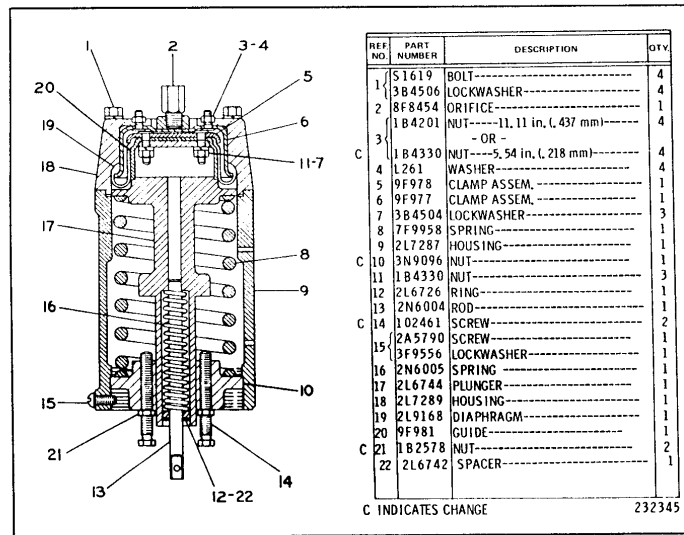
211438



3N5877 OVERSPEED CONTACTOR GROUP
FOR USE WITH AUTOMATIC START-STOP
AN ATTACHMENT

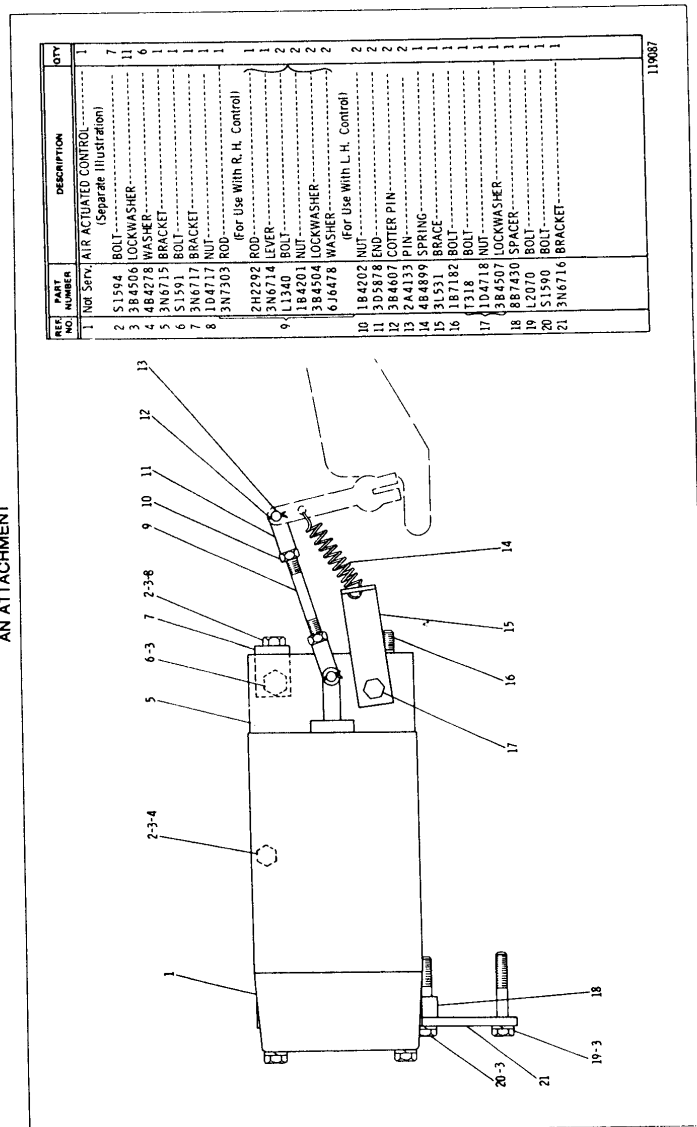


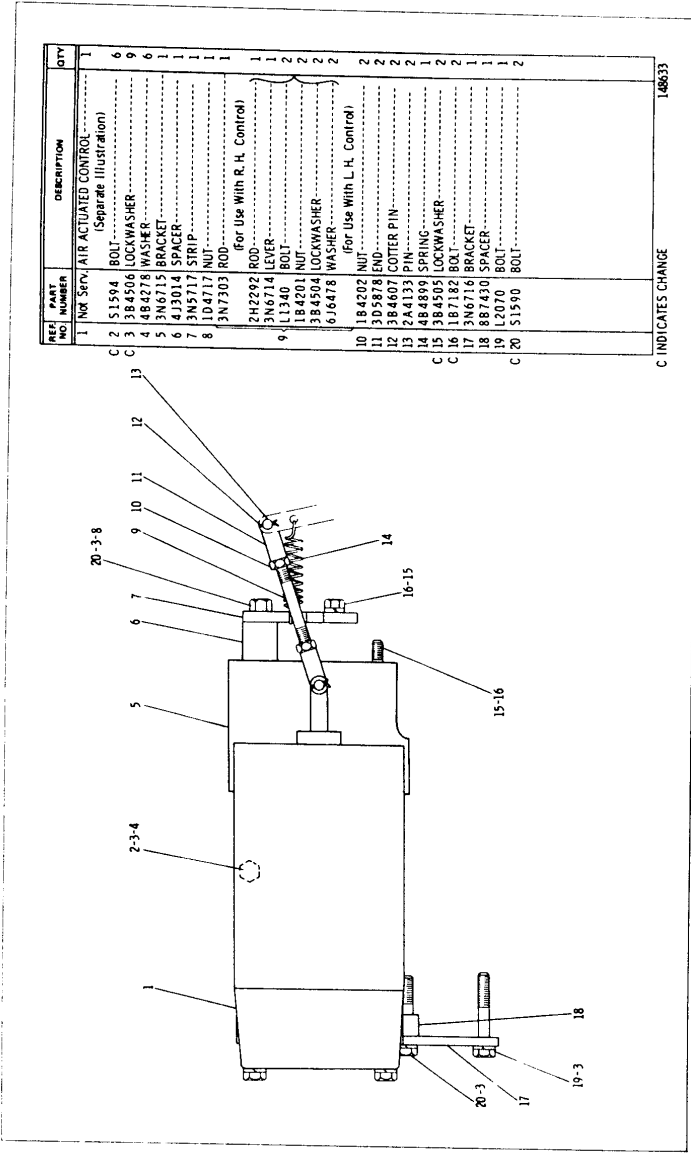
2N6006 AIR ACTUATOR GROUP—Type 1
Part of 3N6703 Air Actuator Control Group



2N6006 AIR ACTUATOR GROUP—Type 2
Part of 3N6703 Air Actuator Control Group

3N6703 GOVERNOR CONTROL GROUP—Type 1
NOT FOR USE WITH 6N8789 L.H. OIL FILTER GROUP
2N6006 Air Actuator Control parts are shown on Page 136A
AN ATTACHMENT





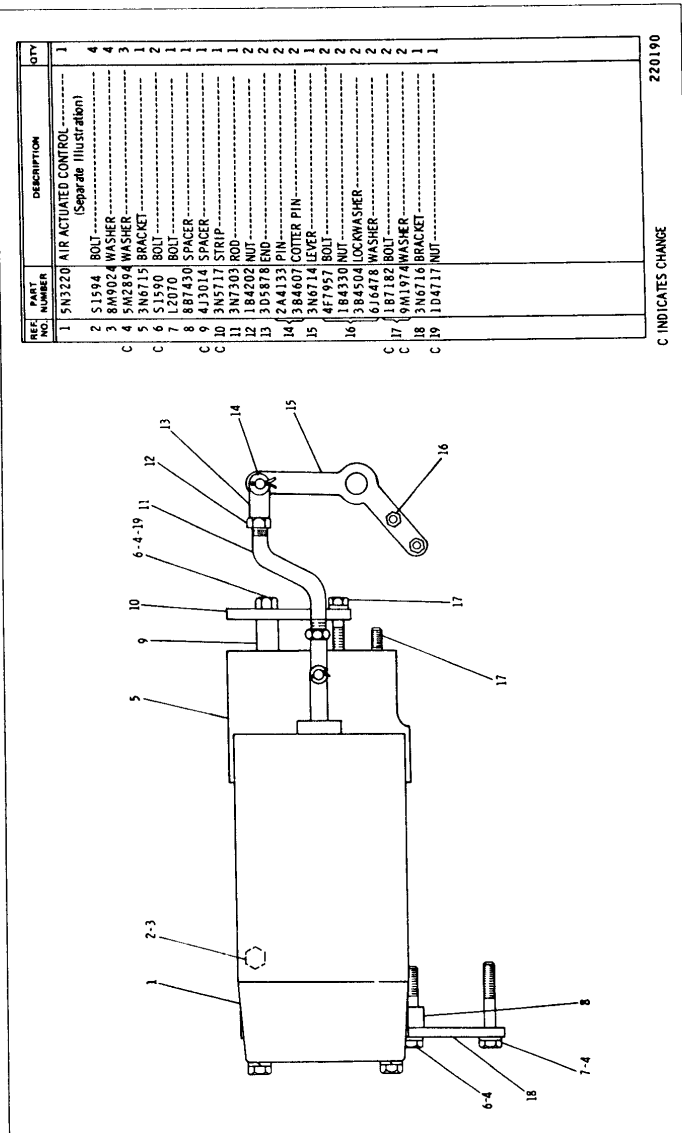
3N6703 GOVERNOR CONTROL GROUP—Type 2
NOT FOR USE WITH 6N8789 L.H. OIL FILTER GROUP
2N6006 Air Actuator Control parts are shown on Page 136A
AN ATTACHMENT

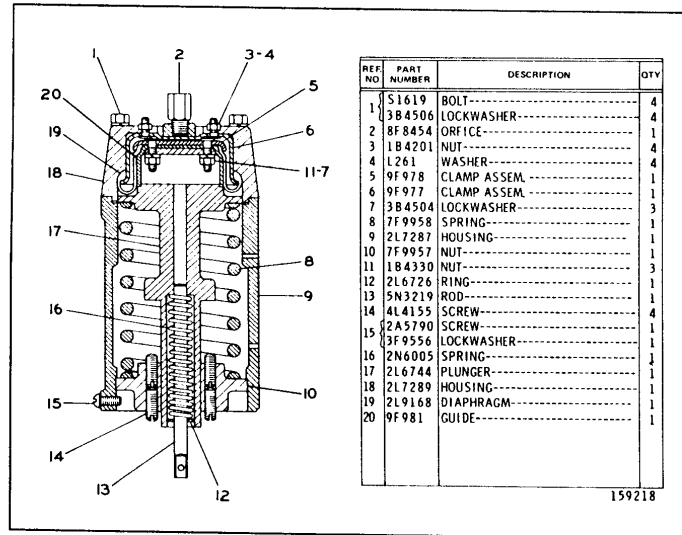
3N6703 GOVERNOR CONTROL GROUP—Type 3
NOT FOR USE WITH 6N8789 L.H. OIL FILTER GROUP
5N3220 Air Actuator Control parts are shown on Page 137A-2
AN ATTACHMENT

REF. NO.	PART NUMBER	DESCRIPTION	QTY
C 1	5N3220	AIR ACTUATED CONTROL (Separate Illustration)	1
C 2	51594	BOLT	4
C 3	8M9024	WASHER	4
C 4	5N2894	WASHER	2
C 5	3N6715	BRACKET	1
C 6	51590	BOLT	1
C 7	12070	BOLT	1
C 8	887430	SPACER	1
C 9	3N7303	ROD (For Use With R. H. Control)	1
C 10	2H2292	ROD	1
C 11	3N6714	LEVER	1
C 12	4F7957	BOLT	2
C 13	184330	NUT	2
C 14	384504	LOCKWASHER	2
C 15	6J6478	WASHER (For Use With L. H. Control)	2
C 16	184202	NUT	2
C 17	3D5878	END	2
C 18	384607	COTTER PIN	2
C 19	2A4133	PIN	2
C 20	3N6716	BRACKET	1
C 21	9M1974	WASHER	1
C 22	187182	BOLT	1

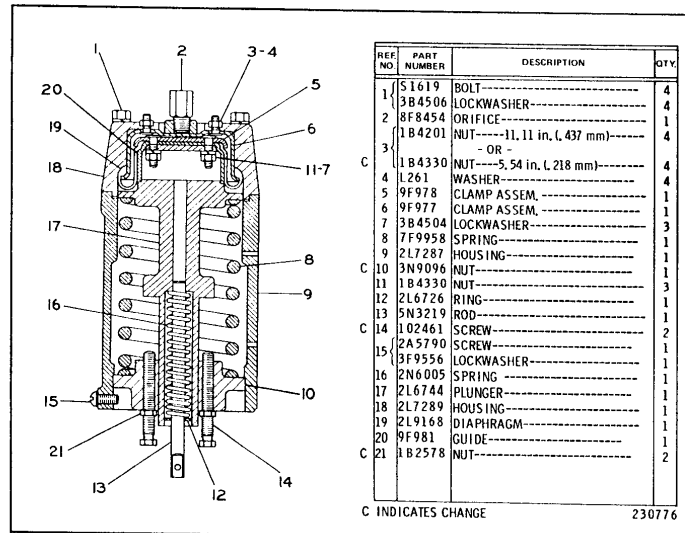
C INDICATES CHANGE 164748

3N6703 GOVERNOR CONTROL GROUP—Type 4
NOT FOR USE WITH 6N8789 L.H. OIL FILTER GROUP
5N3220 AIR ACTUATOR CONTROL PARTS ARE SHOWN ON Page 137A-2
AN ATTACHMENT

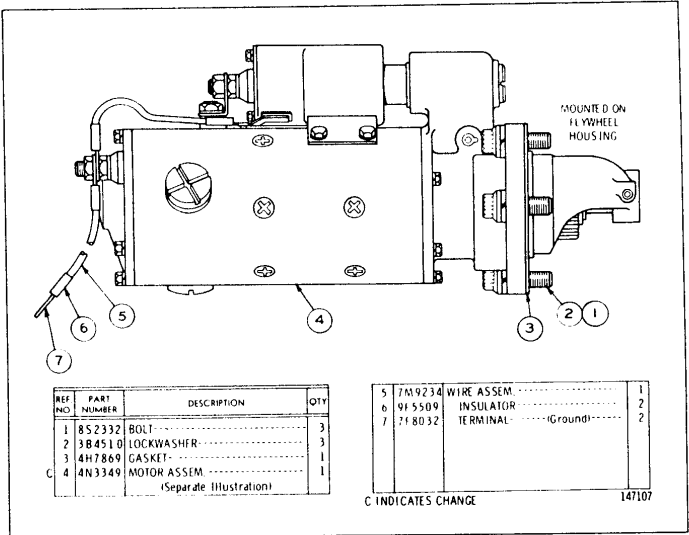




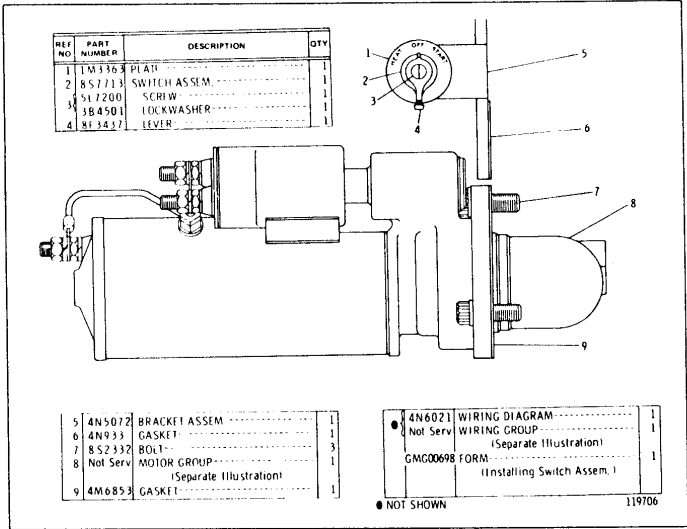
5N3220 AIR ACTUATOR GROUP—Type 1
Part of 3N6703 Governor Control Group



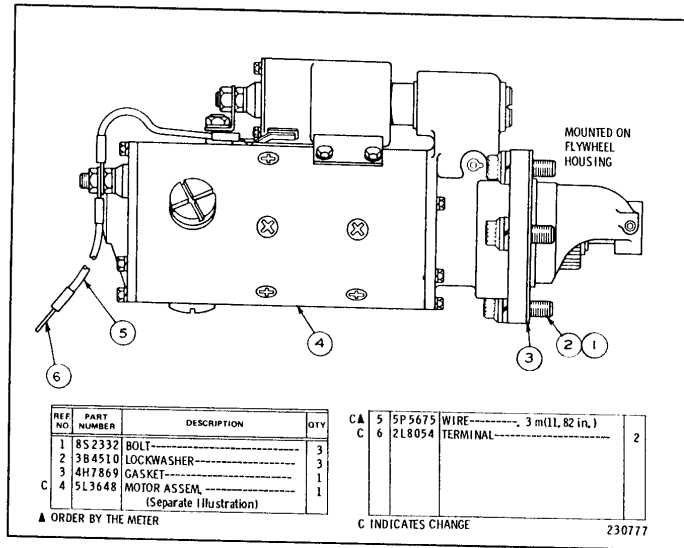
5N3220 AIR ACTUATOR GROUP—Type 2
Part of 3N6703 Governor Control Group



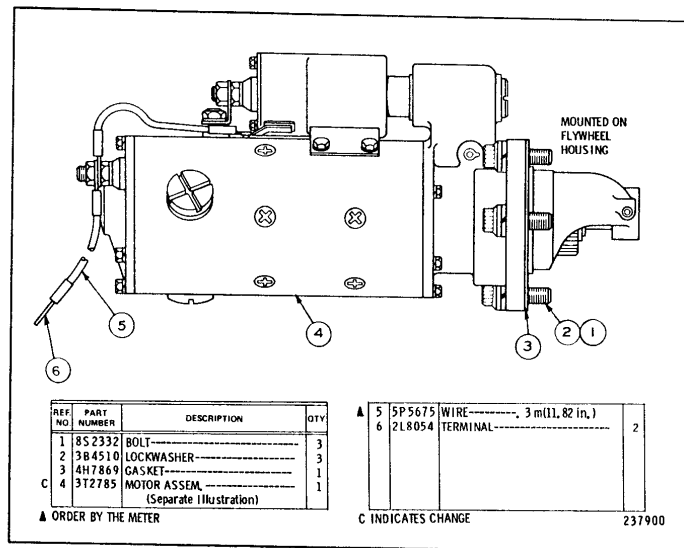
2S7227 ELECTRIC STARTER GROUP—24 Volt—Heavy Duty—Type 1
4N3349 Motor parts are shown on Pages 146B and 146C



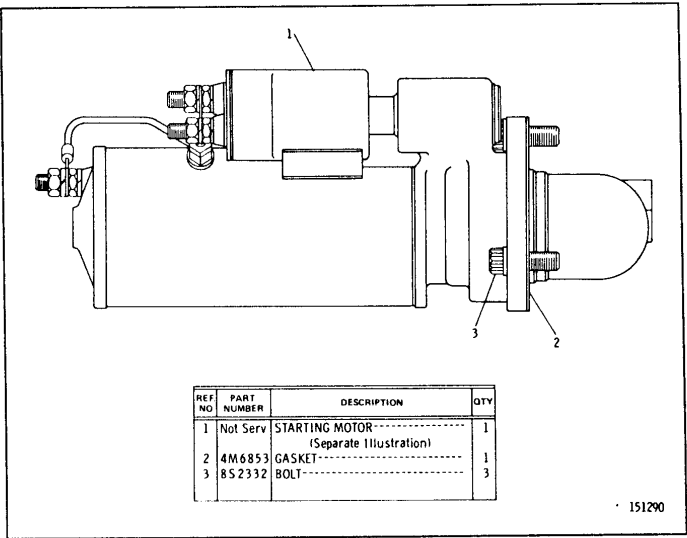
4N5036 ELECTRIC STARTING MOTOR GROUP—32 Volt—With Switch—Type 1
4N5471 Electric Starting Motor and 3L6655 Wiring Kit parts are shown on Pages 146D, 147 and 157. AN ATTACHMENT



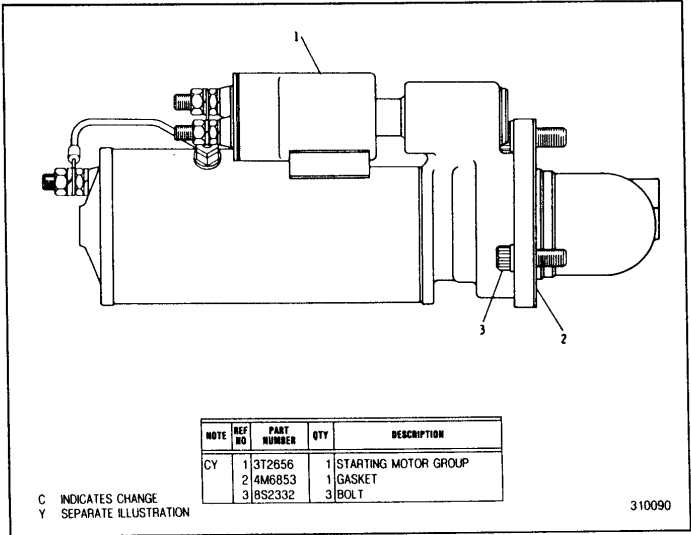
2S7227 ELECTRIC STARTER GROUP—24 Volt—Heavy Duty—Type 2
5L3648 Motor parts are shown on Pages 146 & 146A



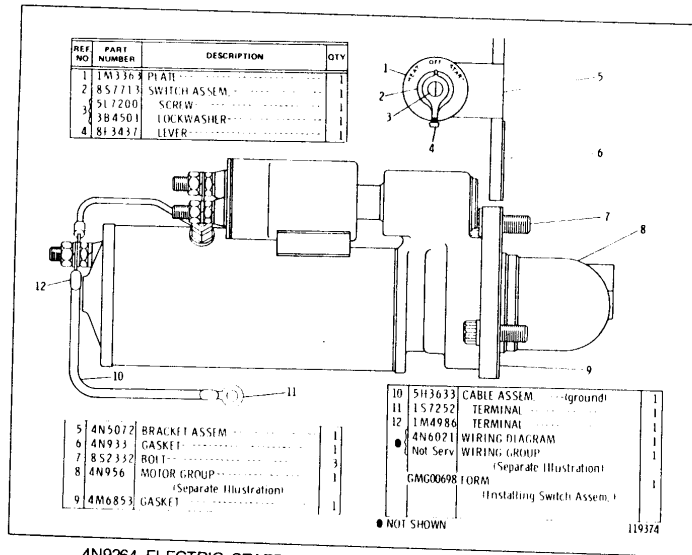
2S7227 ELECTRIC STARTER GROUP—24 Volt—Heavy Duty—Type 3
3T2785 Motor parts are shown on Page 146A.01



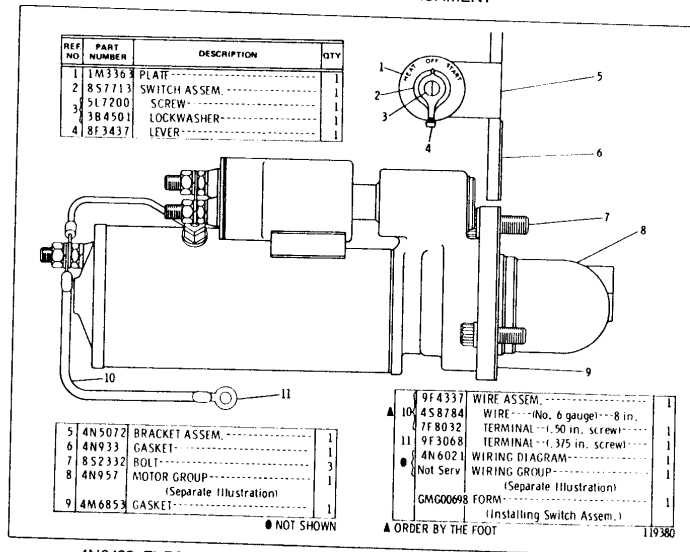
4N5036 ELECTRIC STARTING MOTOR GROUP—32 Volt—Type 2
4N5471 Starting Motor parts are shown on Pages 146D and 147
AN ATTACHMENT



4N5036 ELECTRIC STARTING MOTOR GROUP—32 Volt—Type 3
3T2656 Motor parts are shown on Page 141A



4N9264 ELECTRIC STARTING MOTOR GROUP—12 Volt—With Switch
 4N956 Electric Starting Motor and Wiring Kit parts are shown on Pages 142, 143 and 157. Only separate parts serviced. When complete Group is required order 4N1064 and 6N2039. AN ATTACHMENT



4N6498 ELECTRIC STARTING MOTOR GROUP—24 Volt—With Switch
 4N957 Electric Starting Motor and Wiring Kit parts are shown on Pages 144, 145 and 157. Only separate parts serviced. When complete Group is required order 4N1062 and 6N2039. AN ATTACHMENT

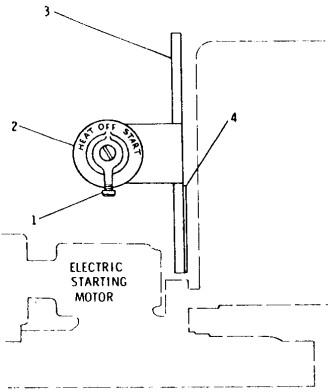


Diagram showing the 6N2039 Heat Start Switch Group. It includes an electric starting motor (1) connected to a switch assembly (2) which is mounted on a bracket (3) and secured with a gasket (4). The switch assembly is labeled 'HEAT OFF START'.

REF NO	PART NUMBER	DESCRIPTION	QTY
	857713	SWITCH ASSEM. --(heat & start)---	1
	(Includes)		
1	8F3437	LEVER-----	1
	5L7200	SCREW-----	1
	3B4501	LOCKWASHER-----	1
2	1M3363	PLATE-----	1
3	4N5072	BRACKET ASSEM.-----	1
4	4N933	GASKET-----	1
	3L6655	WIRING GROUP-----	1
	(Separate Illustration)		
	4N6021	WIRING DIAGRAM-----	1
	(For Use With Insulated System)		
C	7L5912	WIRING DIAGRAM-----	1
	(For Use With Grounded System)		

▲ NOT SHOWN
C INDICATES CHANGE

205480

6N2039 HEAT START SWITCH GROUP
NOT FOR USE WITH L.H. AIR STARTING
3L6655 Wiring Kit parts are shown on Page 157
AN ATTACHMENT

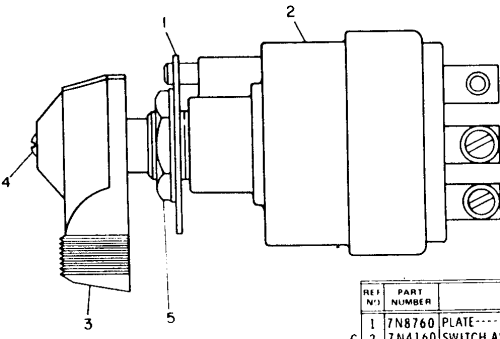


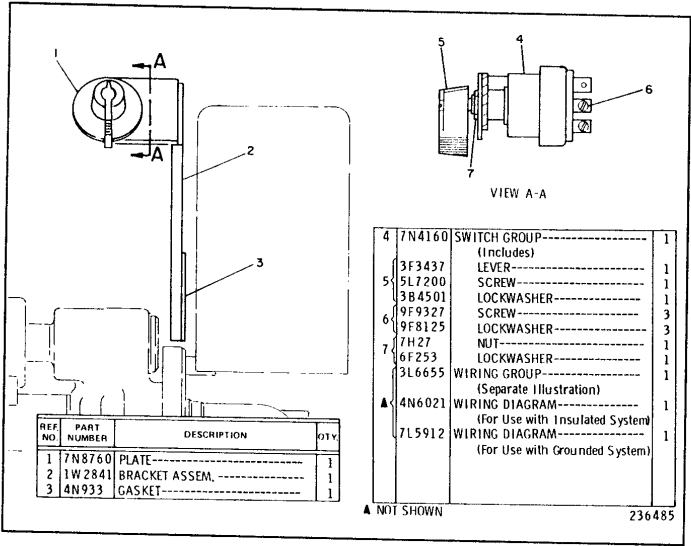
Diagram showing the 8N530 Heat Start Switch Group. It features a switch assembly (2) mounted on a bracket (1) which is secured with a nut (3) and a lockwasher (4). The switch assembly is connected to a wiring group (5) which is secured with a screw (6) and a lockwasher (7). The wiring group is labeled 'HEAT OFF START'.

REF NO	PART NUMBER	DESCRIPTION	QTY
1	7N8760	PLATE----(Instruction)-----	1
C	7N4160	SWITCH ASSEM. ----(heat-start)---	1
	(Includes)		
3	8F3437	LEVER-----	1
	5L7200	SCREW-----	1
4	3B4501	LOCKWASHER-----	1
	7H27	NUT-----	1
5	6F253	LOCKWASHER-----	1
	9F9327	SCREW-----	3
6	9F8125	LOCKWASHER-----	3
	GMC00698	FORM--(Installation Instruction)	1

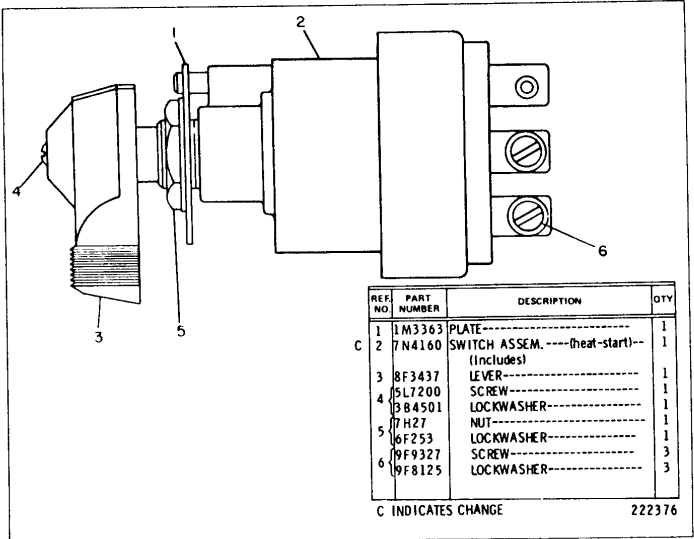
C INDICATES CHANGE

222375

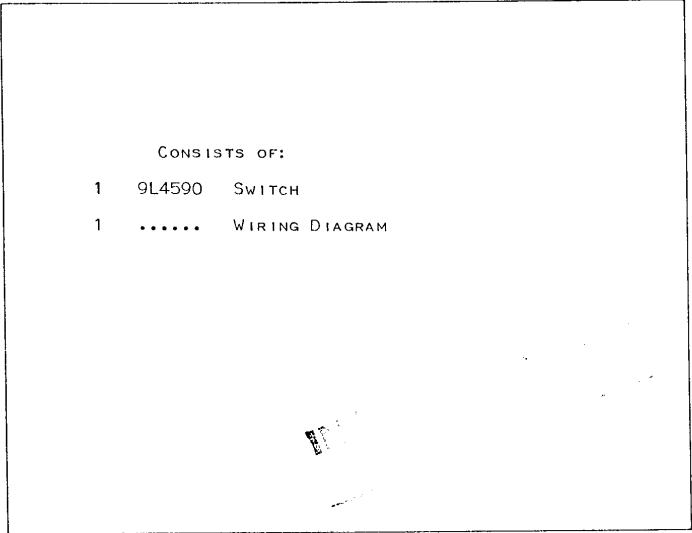
8N530 HEAT START SWITCH GROUP
CANNOT BE USED WITH GLOW PLUGS
AN ATTACHMENT



1W2838 START SWITCH GROUP
FOR USE WITH L.H. AIR START SYSTEM AND/OR WOODWARD GOVERNOR WITH
MAGNET SYNCHRONIZING MOTOR. NOT FOR USE WITH GLOW PLUGS. 3L6655
Wiring parts are shown on Page 157. AN ATTACHMENT



8N531 HEAT START SWITCH GROUP
FOR USE WITH GLOW PLUGS
AN ATTACHMENT



6N1055 STARTING SWITCH GROUP—Series Parallel—12-24 Volt
AN ATTACHMENT

REF NO	PART NUMBER	DESCRIPTION	QTY
1	5L3648	MOTOR GROUP (Separate Illustration)	1

2	4M6853	GASKET	1
3	8S2332	BOLT	3
4	5M6668	SCREW	2
5	1N9770	CIRCUIT BREAKER	1
6	9F3099	SWITCH (magnetic)	1
7	4B2043	NUT	2
8	3B4501	LOCKWASHER	2
9	4F2294	NUT	2
10	3L6789	LOCKWASHER	2
	8F908	WASHER	2
	51613	BOLT	2
	1B4330	NUT	2
	3B4504	LOCKWASHER	2
10	4H8310	STRAP	1

212626

5N4109 ELECTRIC STARTING MOTOR GROUP—24 Volt—Type 1
5L3648—146 & 146A. Refer to Chart shown on Page 140A for usage
AN ATTACHMENT

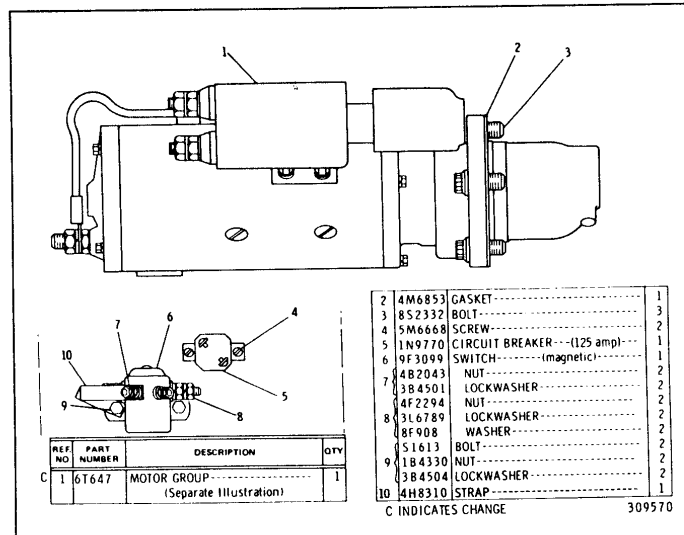
REF NO	PART NUMBER	DESCRIPTION	QTY
1	3T2785	MOTOR GROUP (Separate Illustration)	1

2	4M6853	GASKET	1
3	8S2332	BOLT	3
4	5M6668	SCREW	2
5	1N9770	CIRCUIT BREAKER	1
6	9F3099	SWITCH (magnetic)	1
7	4B2043	NUT	2
8	3B4501	LOCKWASHER	2
9	4F2294	NUT	2
10	3L6789	LOCKWASHER	2
	8F908	WASHER	2
	51613	BOLT	2
	1B4330	NUT	2
	3B4504	LOCKWASHER	2
10	4H8310	STRAP	1

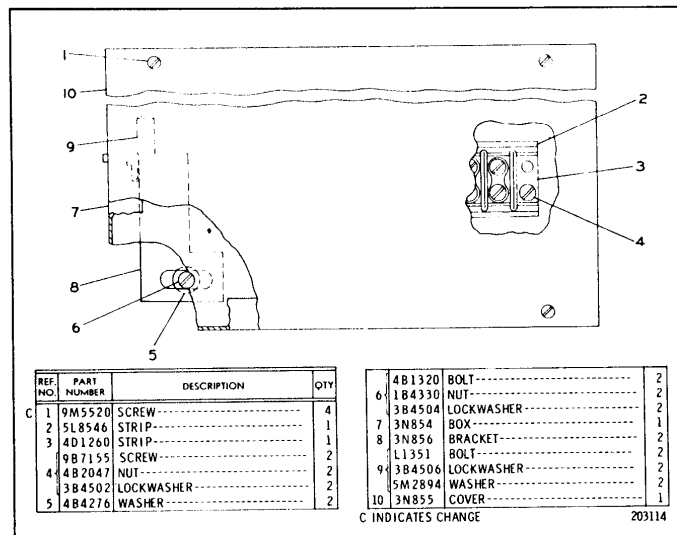
C INDICATES CHANGE

182168

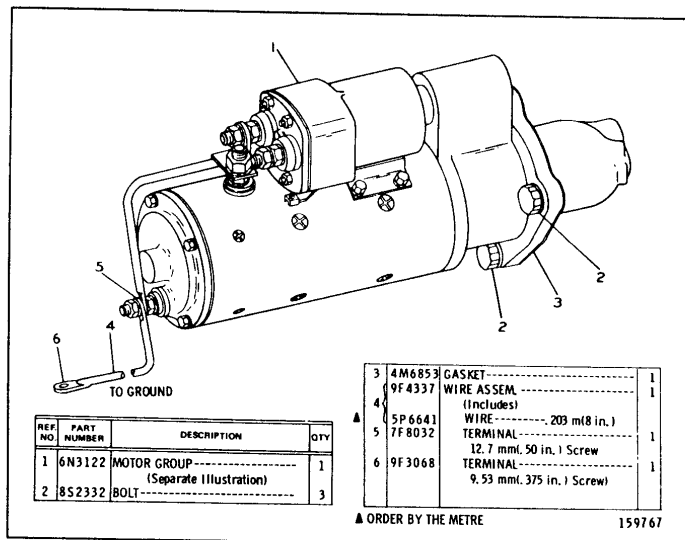
5N4109 ELECTRIC STARTING MOTOR GROUP—24 Volt—Type 2
3T2785—Page 146A-1. Refer to Chart shown on Page 140A for usage
AN ATTACHMENT



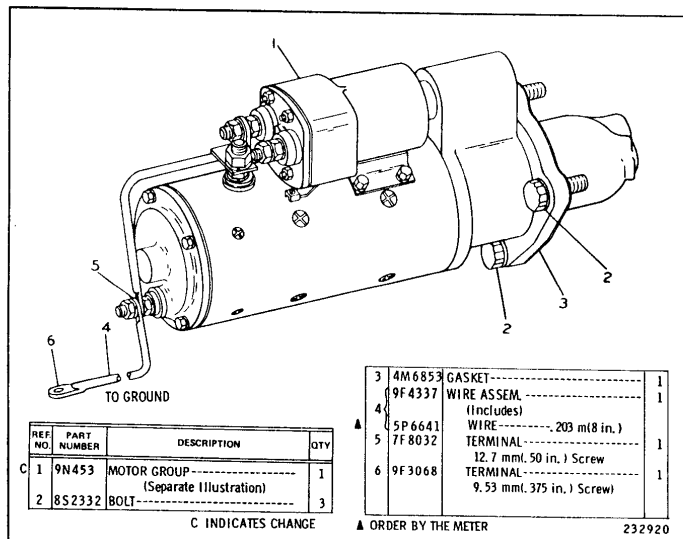
5N4109 ELECTRIC STARTING MOTOR GROUP—24 Volt—Type 3
6T647—Page 146A-4. Refer to Chart shown on Page 140A for usage
AN ATTACHMENT



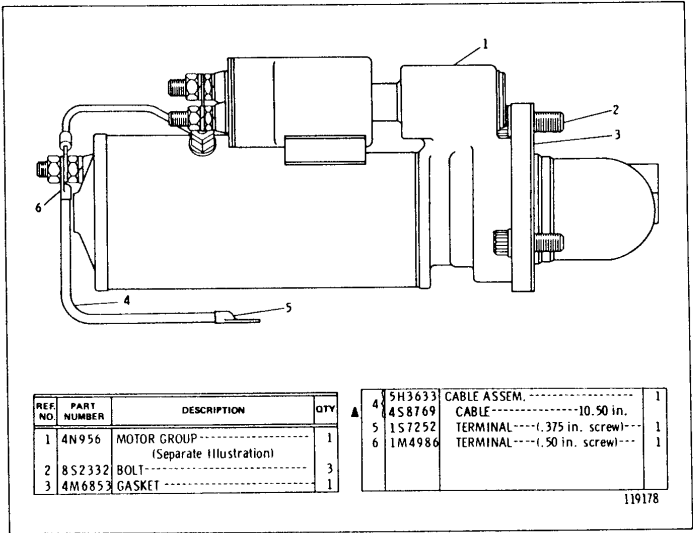
3N859 JUNCTION BOX GROUP
Part of 3N4580 Automatic Start-Stop Arrangement listed on Page 140
Refer to Chart shown on Page 140A for usage



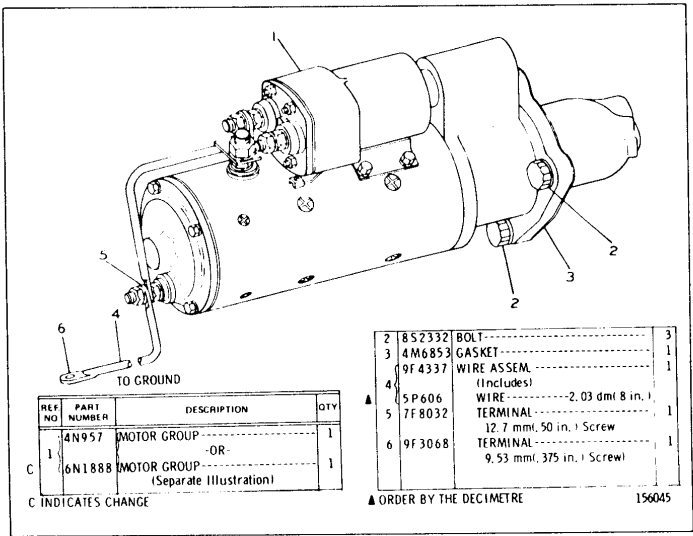
6N7387 ELECTRIC STARTING MOTOR GROUP—24 Volt—Type 1
6N3122—Page 146D. Right Hand Mounted
AN ATTACHMENT



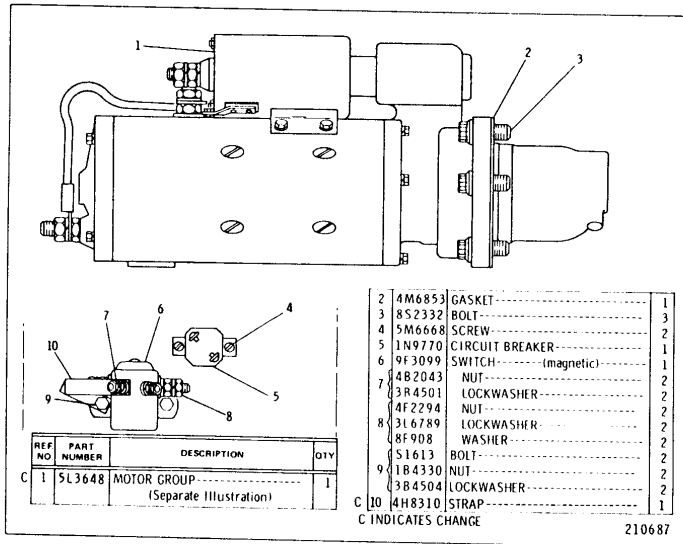
6N7387 ELECTRIC STARTING MOTOR GROUP—24 Volt—Type 2
9N453—Page 147A. Right Hand Mounted
AN ATTACHMENT



4N1064 ELECTRIC STARTING MOTOR GROUP—12 Volt—Without Switch
4N956 Electric Starting Motor parts are shown on Pages 142 and 143
AN ATTACHMENT



4N1062 ELECTRIC STARTING MOTOR GROUP—24 Volt—Without Switch
4N957 and 6N1888 Electric Starting Motor parts are shown on Pages 144,
145 and 145B. AN ATTACHMENT



3N4581 ELECTRIC STARTING MOTOR GROUP—24 Volt
Part of 3N4580 Automatic Start-Stop Arrangement. 5L3648 Motor parts are shown on
Pages 146 and 146A. Refer to Chart shown on Page 140A for usage

CONSISTS OF:			PAGE
1	8L4849	WIRING GROUP.....	157
1	3N584	SHUT-OFF GROUP.....	156
1	3N859	JUNCTION BOX GROUP.....	141
1	3N4581	ELECTRIC STARTING MOTOR GROUP.....	140
1	3N4585	CONTACTOR MOUNTING GROUP.....	158
1	3N6526	CONTACTOR GROUP.....	158A
	- OR -		
1	3N8133	CONTACTOR GROUP.....	158A
1	.....	WIRING DIAGRAM	

3N4580 AUTOMATIC START-STOP ARRANGEMENT—24 Volt
FOR USE WITH 3L89 CRANKING PANEL. AN ATTACHMENT

PART No.	NAME	*USAGE CODE	
		GOVERNOR	FOR USE WITH
3N4581 - OR - 5N4109	STARTING MOTOR GROUP STARTING MOTOR GROUP	E P2 P2 HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG
8L4849	WIRING GROUP	E P2 P2 HM HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N859	JUNCTION BOX GROUP	P2 HM	N-PGS-NG N-PG-NG
3N584	SOLENOID SHUT-OFF GROUP	P2 P2	N-PGS-NG PGS-G4
6N4201	SOLENOID SHUT-OFF GROUP	HM HM	N-PG-NG PGS-G4
3N9595	CONTACTOR GROUP	E P2 P2 HM HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N6526	CONTACTOR GROUP	E P2	N-PGS-NG N-PGS-NG
3N8783 - OR - 5N3014	CONTACTOR GROUP CONTACTOR GROUP	P2 P2 HM HM	N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N4585 - OR - 3N9653	CONTACTOR MOUNTING GROUP CONTACTOR MOUNTING GROUP	E P2 P2 HM HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N6354	INSTRUMENT PANEL ASSEMBLY	P2 HM	PGS-G4 PGS-G4
5N2875 - OR - 5N2689	HARNESS ASSEMBLY HARNESS ASSEMBLY	P2 HM	PGS-G4 PGS-G4
3N6403	WIRING DIAGRAM	P2 HM	PGS-G4 PGS-G4
3N5866	WIRING DIAGRAM	P2 HM	N-PGS-NG N-PG-NG
3N8129	WIRING DIAGRAM	E	N-PGS-NG
*E.....2301 GOVERNOR (ELECTRICAL) P2 .....PSG GOVERNOR WITH 24 V.D.C. SYNCHRONIZING MOTOR HM.....HYDRA-MECHANICAL GOVERNOR N-PGS ....NON-PACKAGE GENERATOR SET NG .....NO GENERATOR REQUIRED PGS.....PACKAGE GENERATOR SET G4.....5N30 TO 5N35 GENERATORS (440 Fr.)			

 3N6600 AUTOMATIC START-STOP CHART—Type 1
 AN ATTACHMENT

*USAGE CODE			
PART No.	NAME	GOVERNOR	FOR USE WITH
3N4581 - OR - 5N4109	STARTING MOTOR GROUP STARTING MOTOR GROUP	E P2 P2 HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG
8L4849	WIRING GROUP	E P2 P2 HM HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N859	JUNCTION BOX GROUP	P2 HM	N-PGS-NG N-PG-NG
3N584	SOLENOID SHUT-OFF GROUP	P2 P2	N-PGS-NG PGS-G4
6N4201	SOLENOID SHUT-OFF GROUP	HM HM	N-PG-NG PGS-G4
3N9595	CONTACTOR GROUP	E P2 P2 HM HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N6526 - OR - 5N5725	CONTACTOR GROUP CONTACTOR GROUP	E P2 P2 HM HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N8783 - OR - 5N3014	CONTACTOR GROUP CONTACTOR GROUP	P2 P2 HM HM	N-PGS-NG PGS-G4 N-PG-NG PGS-G4
*E.....2301 GOVERNOR (ELECTRICAL) P2.....PSG GOVERNOR WITH 24 V.D.C. SYNCHRONIZING MOTOR HM.....HYDRA-MECHANICAL GOVERNOR N-PGS.....NON-PACKAGE GENERATOR SET NG.....NO GENERATOR REQUIRED PGS.....PACKAGE GENERATOR SET G4.....5N30 TO 5N35 GENERATORS (440 FR.)			

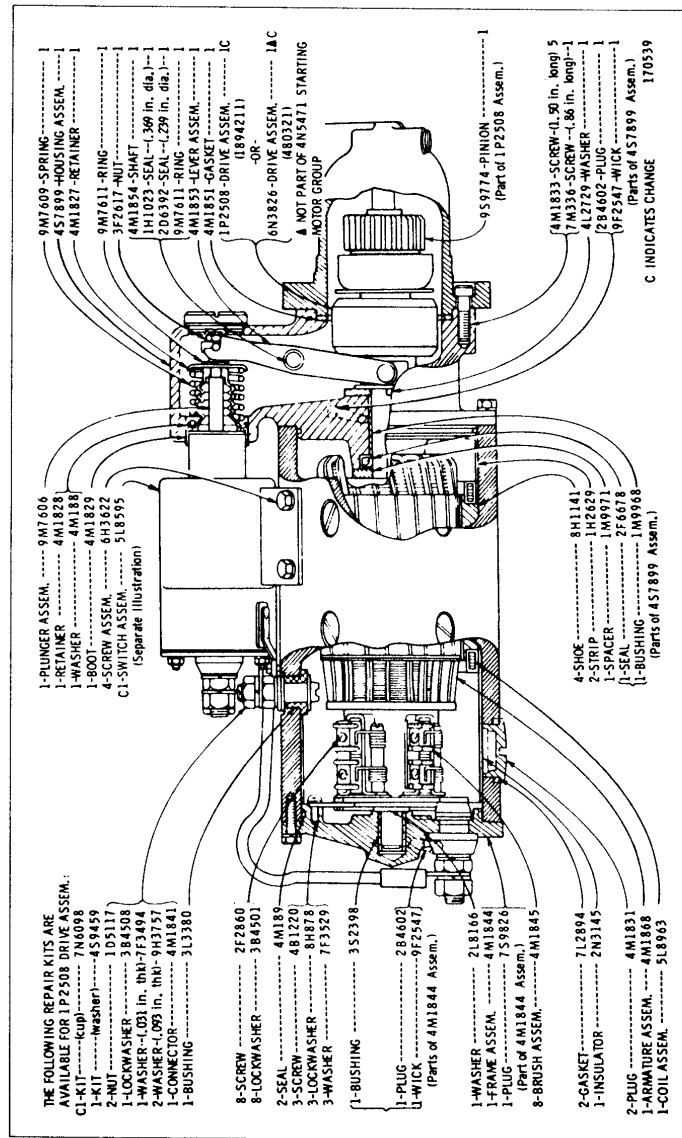
3N6600 AUTOMATIC START-STOP CHART — Part 1 — Type 2
AN ATTACHMENT

STARTING AND ELECTRICAL SYSTEM

140A.02

*USAGE CODE			
PART No.	NAME	GOVERNOR	FOR USE WITH
3N4585 - OR - 3N9653	CONTACTOR MOUNTING GROUP CONTACTOR MOUNTING GROUP	E P2 P2 HM HM	N-PGS-NG N-PGS-NG PGS-G4 N-PG-NG PGS-G4
3N6354	INSTRUMENT PANEL ASSEMBLY	P2 HM	PGS-G4 PGS-G4
5N2875 - OR - 5N2689	HARNESS ASSEMBLY HARNESS ASSEMBLY	P2 HM	PGS-G4 PGS-G4
3N6403	WIRING DIAGRAM	P2 HM	PGS-G4 PGS-G4
3N5866	WIRING DIAGRAM	P2 HM	N-PGS-NG N-PG-NG
3N8129	WIRING DIAGRAM	E	N-PGS-NG
5N5576	ELECTRICAL CONNECTION GROUP	P2	N-PGS-NG
5N2360	HARNESS ASSEMBLY	HM	PGS-G5
*E.....2301 GOVERNOR (ELECTRICAL) P2.....PSG GOVERNOR WITH 24 V.D.C. SYNCHRONIZING MOTOR HM.....HYDRA-MECHANICAL GOVERNOR N-PGS.....NON-PACKAGE GENERATOR SET NG.....NO GENERATOR REQUIRED PGS.....PACKAGE GENERATOR SET G4.....5N30 TO 5N35 GENERATORS (440 FR.)			

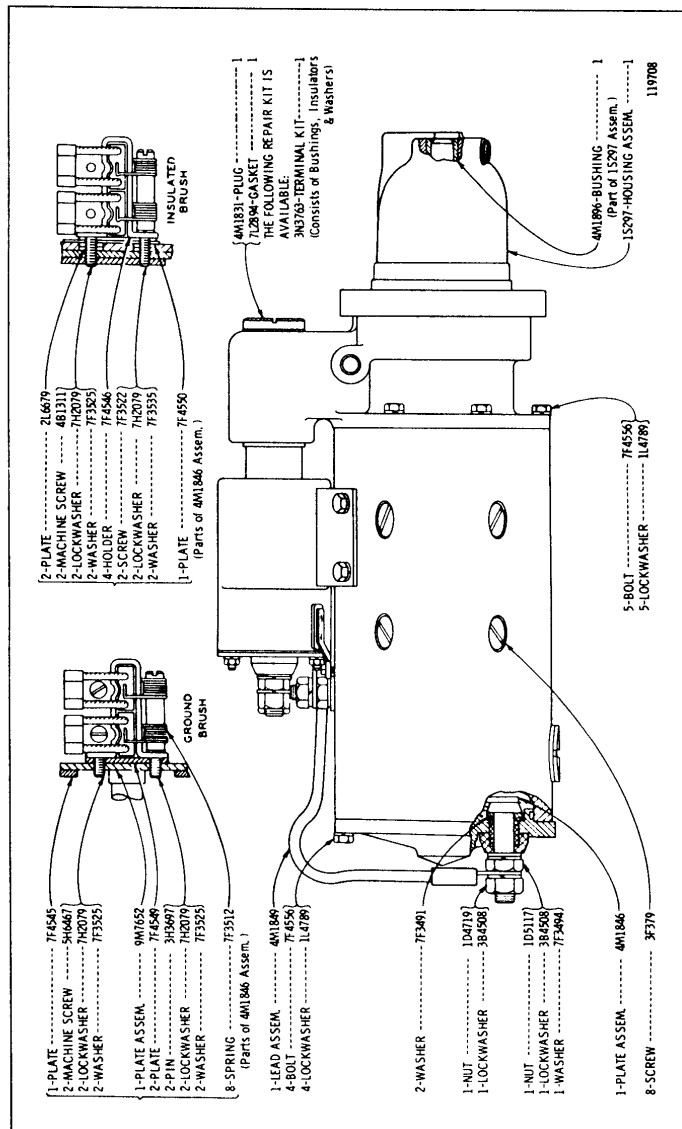
3N6600 AUTOMATIC START-STOP CHART—Part 2—Type 2
AN ATTACHMENT

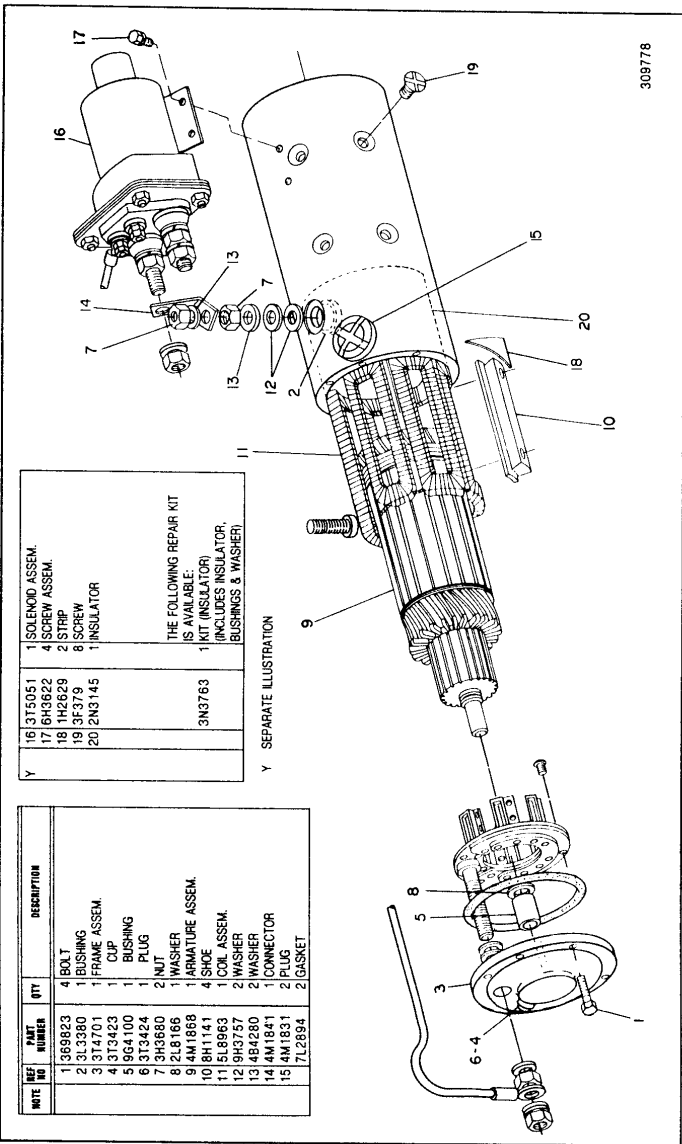


ELECTRIC STARTING MOTOR (4N5471 N/S)—Part 1.—Replaced by 3T2656—Page 141A

Part of 4N5036 Starting Motor Group shown on Pages 137A-1 and 137B
5L8595 Switch parts are shown on Page 154. AN ATTACHMENT

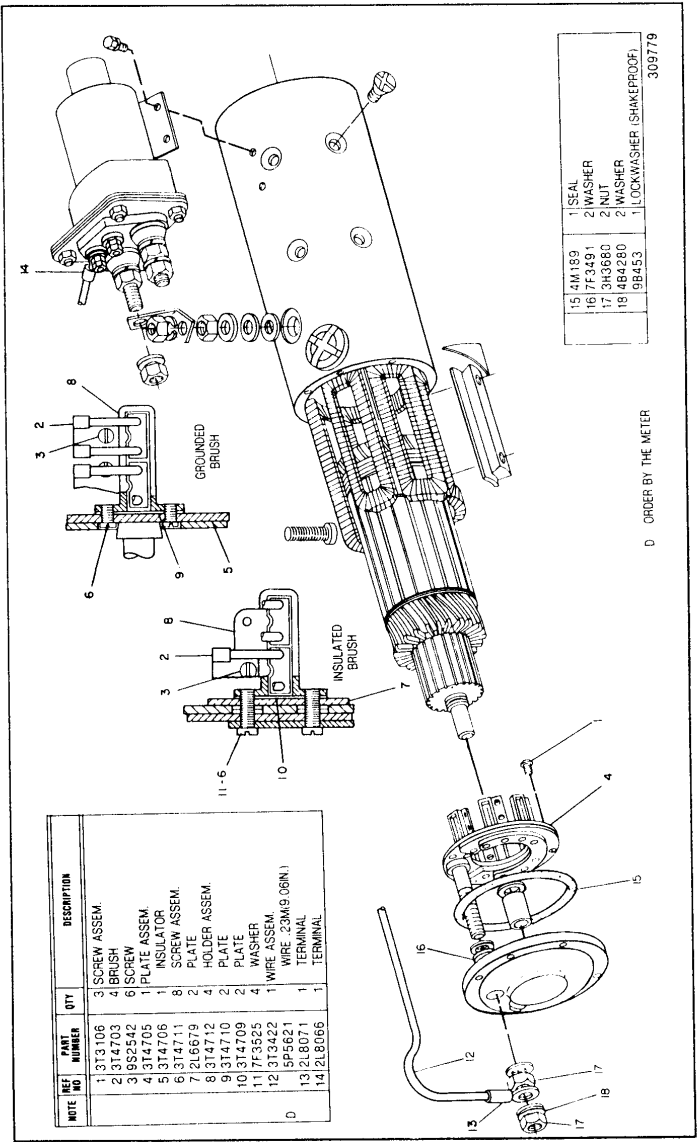
ELECTRIC STARTING MOTOR (4N5471 N/S)—Part 2—Replaced by 3T2658—Page 141A
Part of 4N5038 Starting Motor Group shown on Page 137B. AN ATTACHMENT

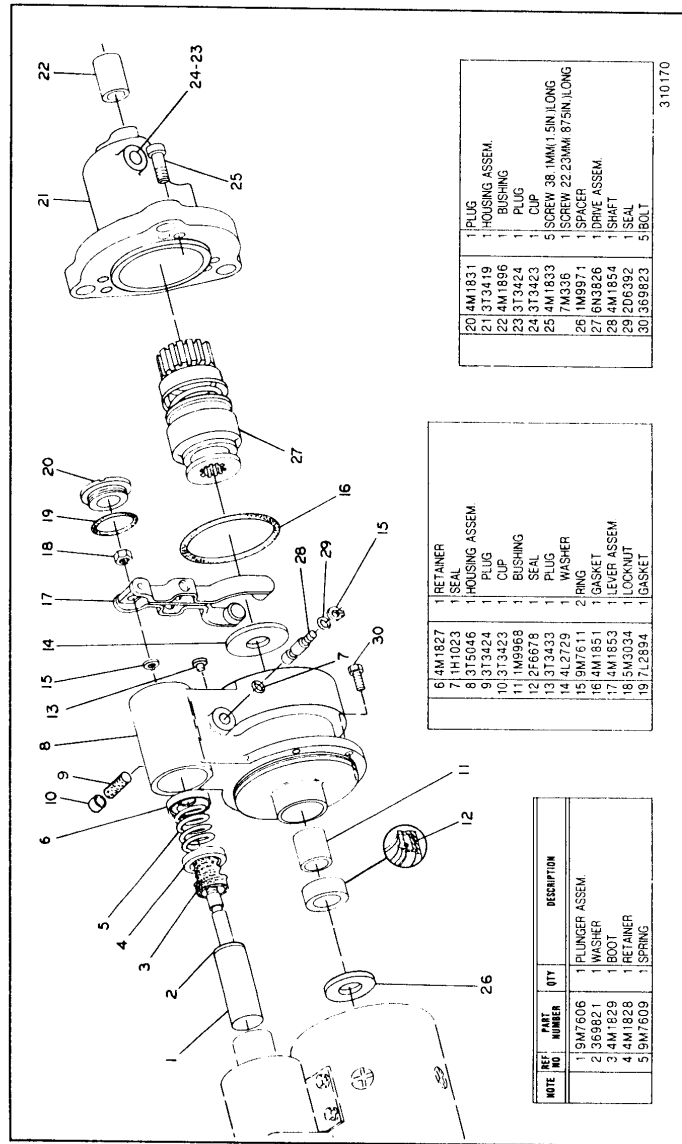




3T2656 ELECTRIC STARTING MOTOR GROUP—32 Volt—Part 1 of 3
3T5051—Page 154A, Part of 4N5036 Electric Starting Motor
For Field Replacement order 3T2651—Page 141A.03, AN ATTACHMENT

3T2656 ELECTRIC STARTING MOTOR GROUP—32 Volt—Part 2 of 3
Part of 4N5036 Electric Starting Motor. For Field Replacement order 3T2651—Page 141A.03
AN ATTACHMENT

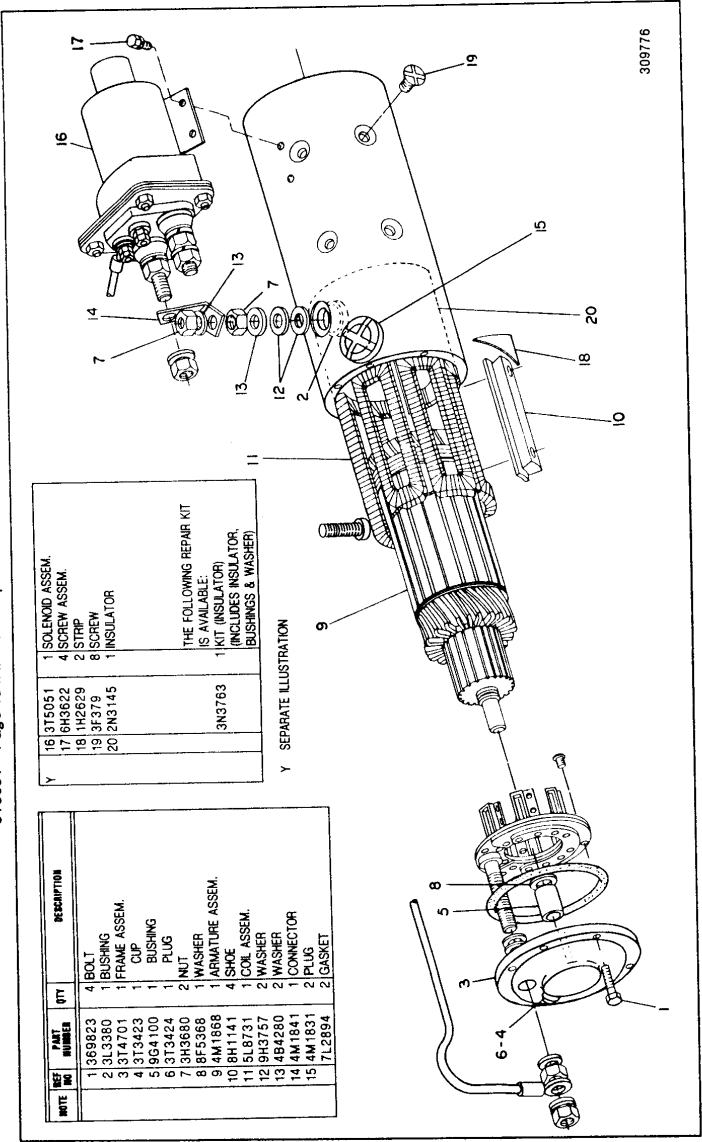




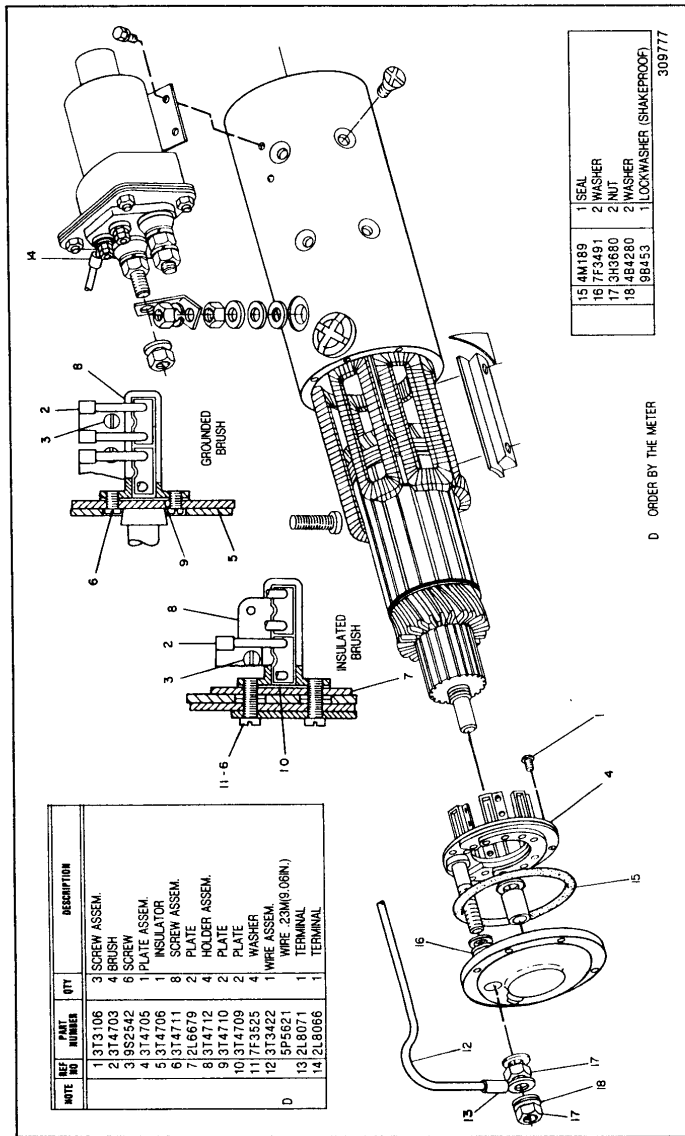
3T2656 ELECTRIC STARTING MOTOR GROUP—32 Volt—Part 3 of 3
 Part of 4N5036 Electric Starting Motor. For Field Replacement order 3T2651—Page 141A.03
 AN ATTACHMENT

3T2851 ELECTRIC STARTING MOTOR GROUP—32 Volt—Part 1 of 3

3T5051—Page 154A. Field Replacement for 3T2856—Page 141A

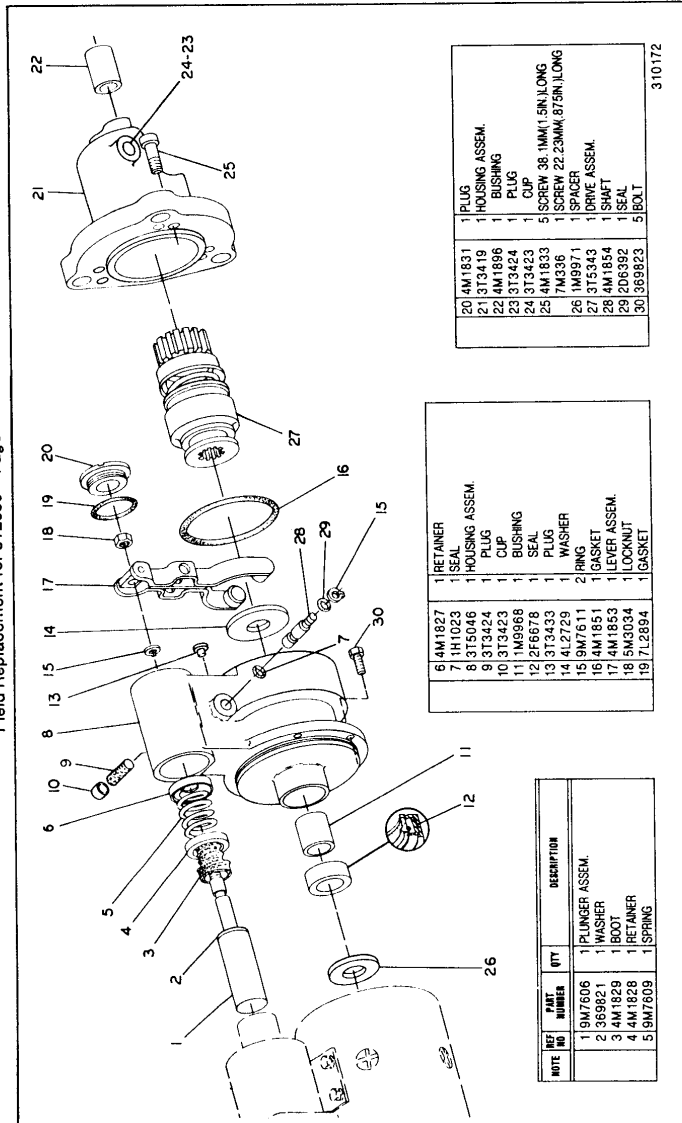


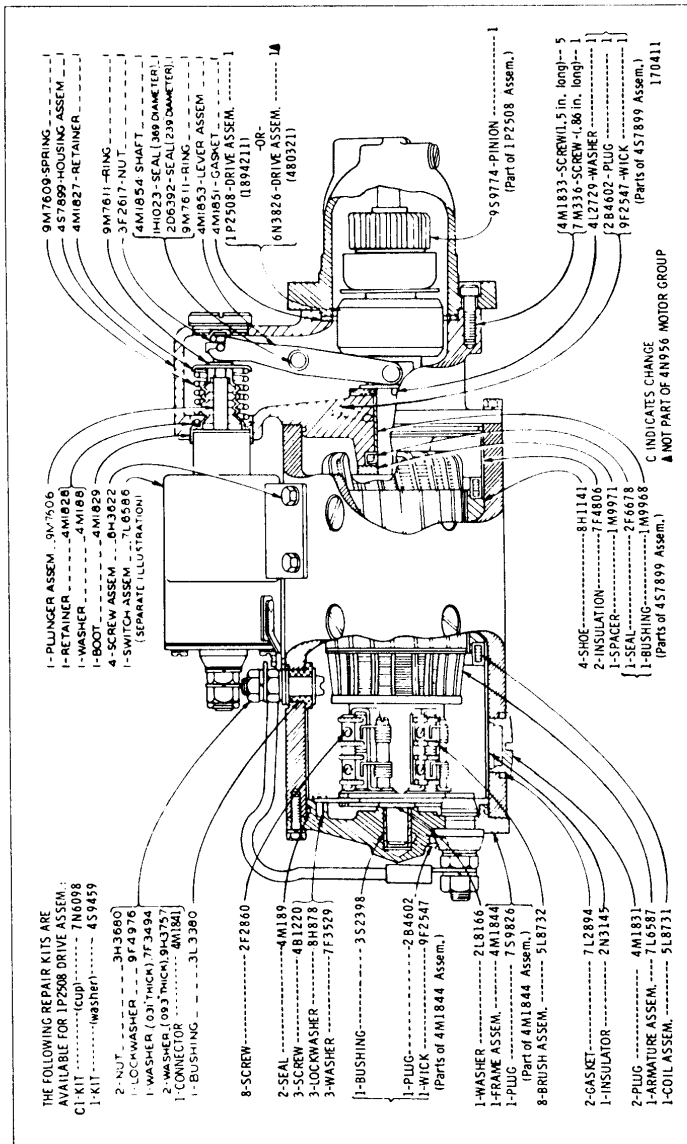
303776



3T2651 ELECTRIC STARTING MOTOR GROUP—32 Volt—Part 2 of 3
Field Replacement for 3T2656—Page 141A

3T2651 ELECTRIC STARTING MOTOR GROUP—32 Volt—Part 3 of 3
Field Replacement for 3T2656—Page 141A



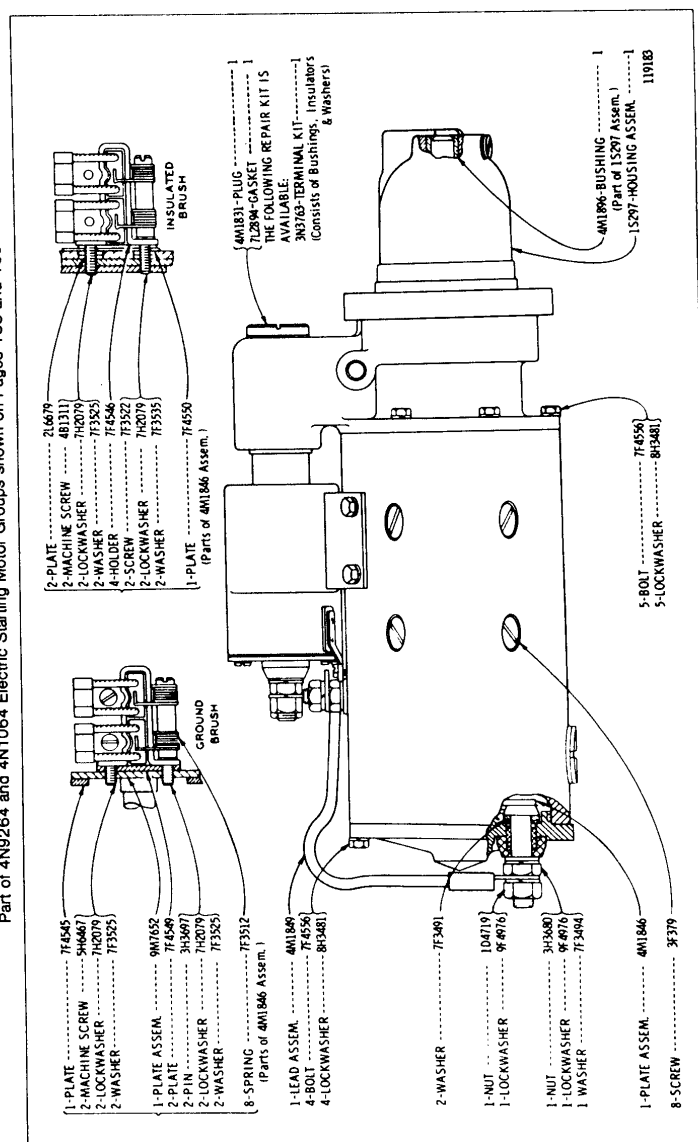


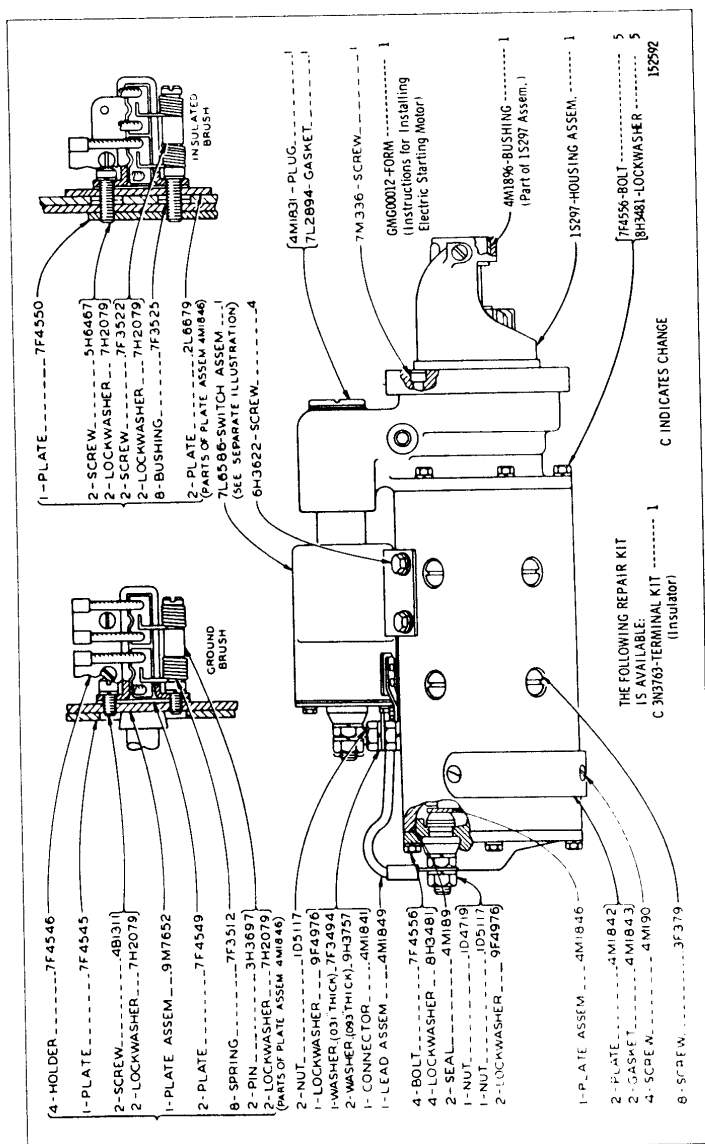
4N956 ELECTRIC STARTING MOTOR GROUP—12 Volt—Part 1

Replaced by 8L8206 shown on Pages 143A & 143B

Part of 4N9264 and 4N1064 Electric Starting Motor Groups shown on Pages 138 and 139
7L6586 Solenoid Switch parts are shown on Page 154

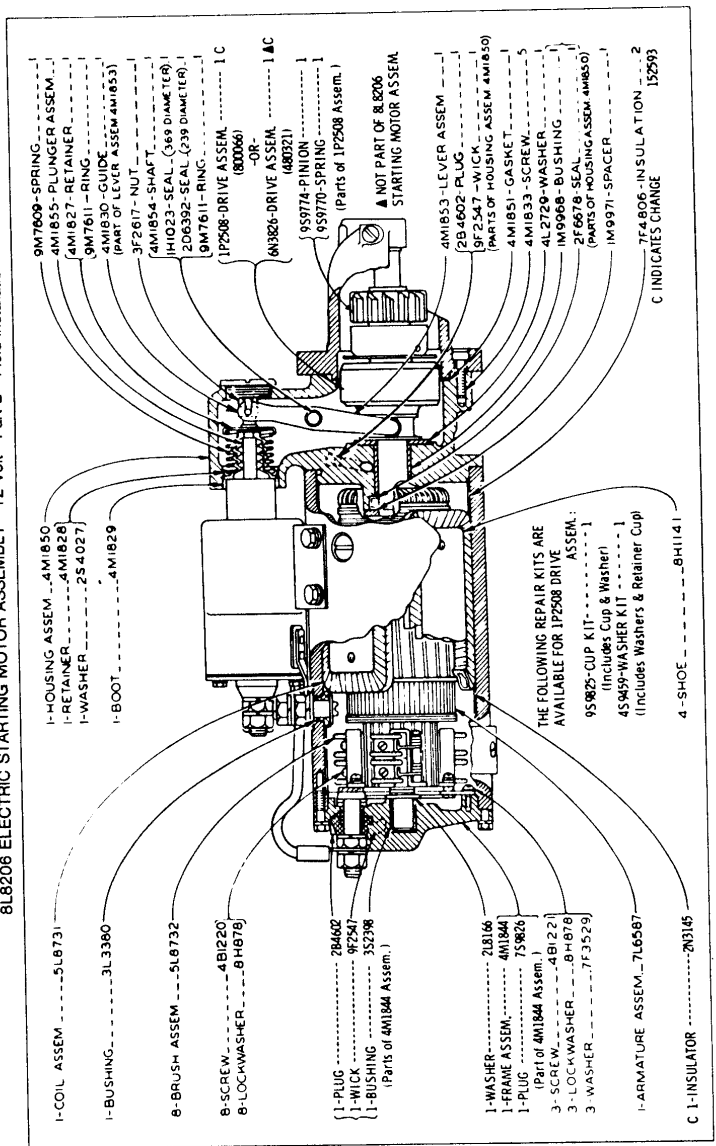
Replaced by 8L8206 shown on Pages 143A & 143B
Part of 4N9264 and 4N1064 Electric Starting Motor Groups shown on Pages 138 and 139

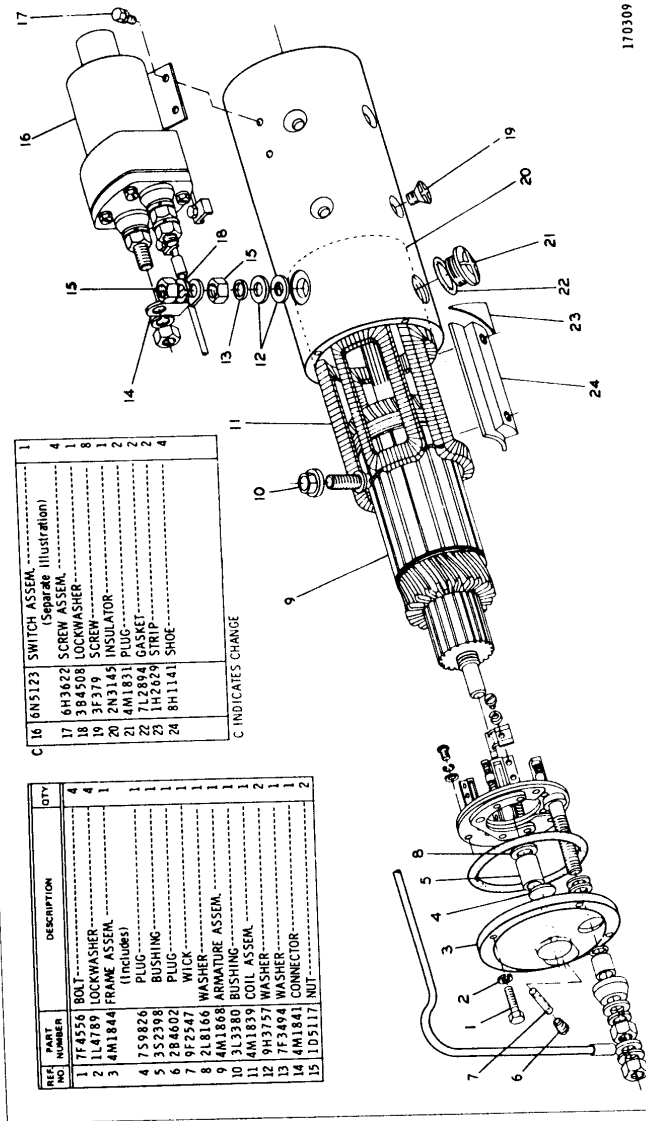




8L8206 ELECTRIC STARTING MOTOR ASSEMBLY—12 Volt—Part 1—Field Installation
7L6585 Solenoid Switch parts are shown on Page 154

8L8206 ELECTRIC STARTING MOTOR ASSEMBLY—12 Volt—Part 2—Field Installation

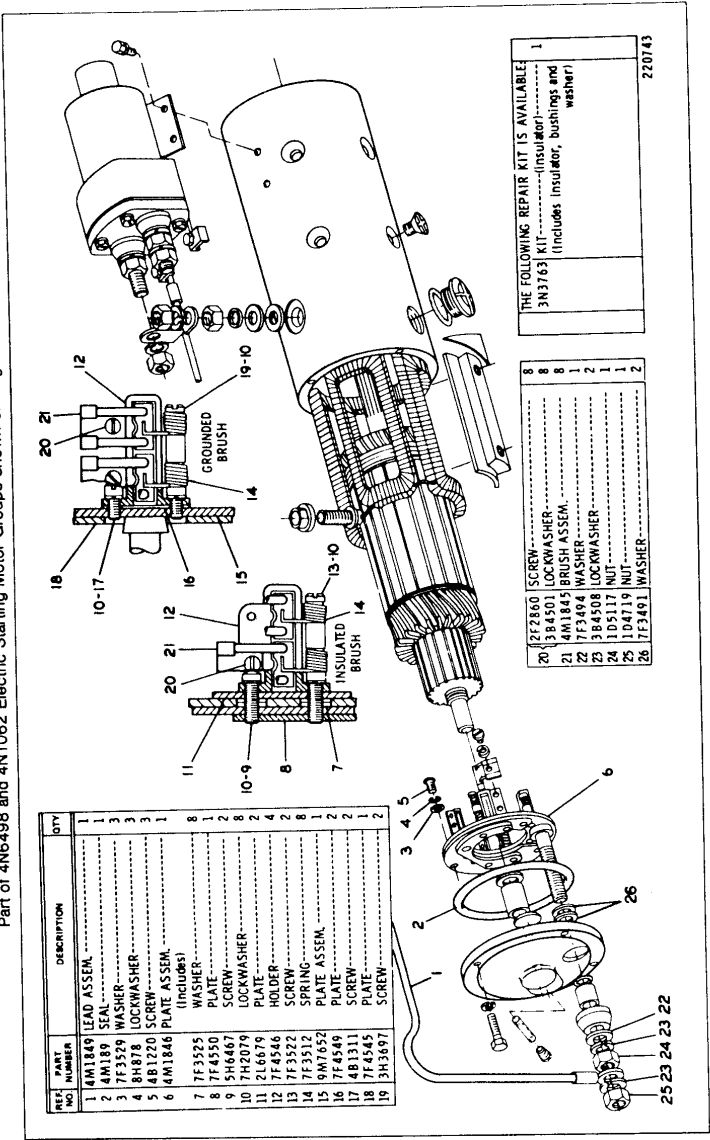


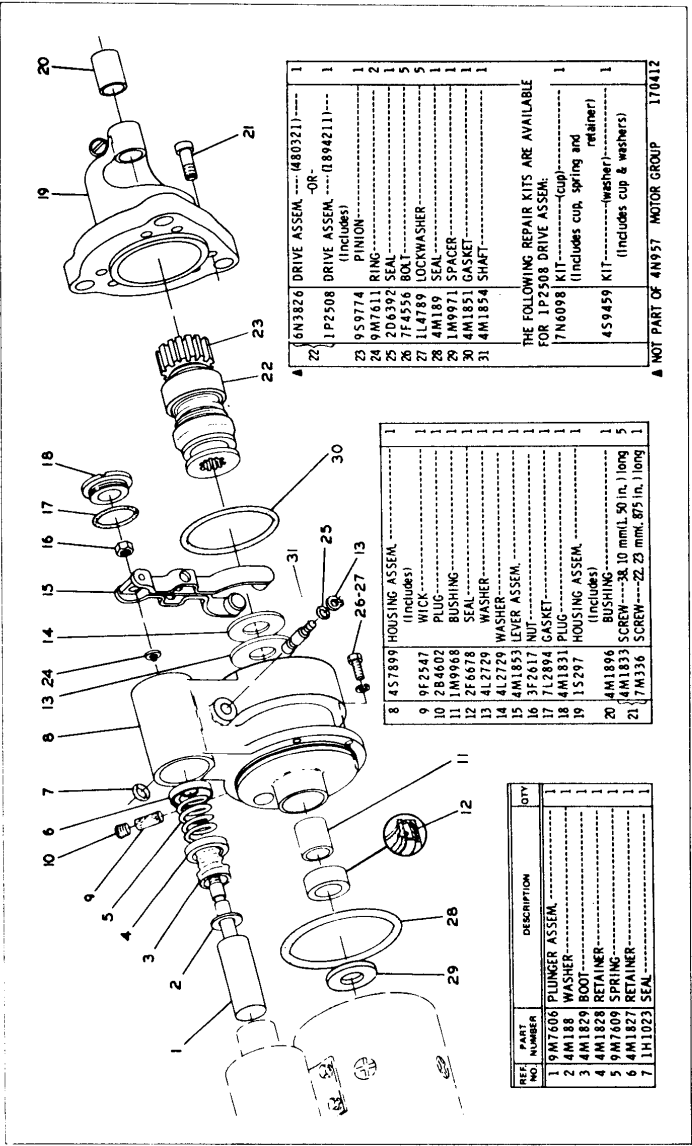


170309

4N957 ELECTRIC STARTING MOTOR GROUP—Delco-Remy—24 Volt—Part 1 of 3
 Part of 4N6498 and 4N1062 Starting Motor Groups shown on Pages 138, 138A and 139
 6N5123 Switch parts are shown on Page 155

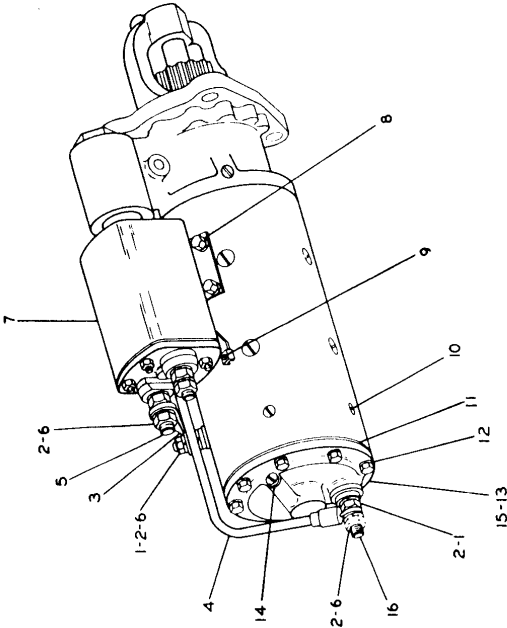
4N957 ELECTRIC STARTING MOTOR GROUP—Delco-Remy—24 Volt—Part 2 of 3
Part of 4N6498 and 4N1062 Electric Starting Motor Groups shown on Pages 138, 138A & 139





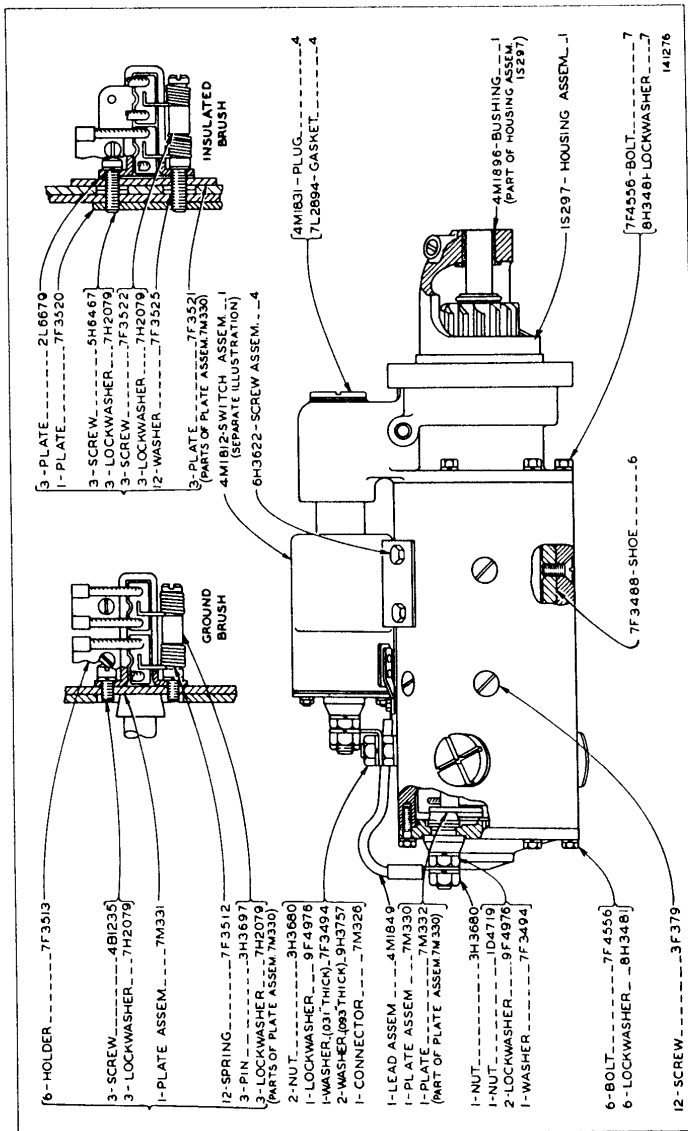
4N957 ELECTRIC STARTING MOTOR GROUP—Delco-Remy—24 Volt—Part 3 of 3
Part of 4N6498 and 4N1062 Starting Motor Groups shown on Pages 138, 138A and 139

6N1888 ELECTRIC STARTING MOTOR GROUP—Prestolite—24 Volt
Part of 4N1062 Electric Starting Motor Group shown on Page 139
9S7976 Solenoid parts are shown on Page 156-2



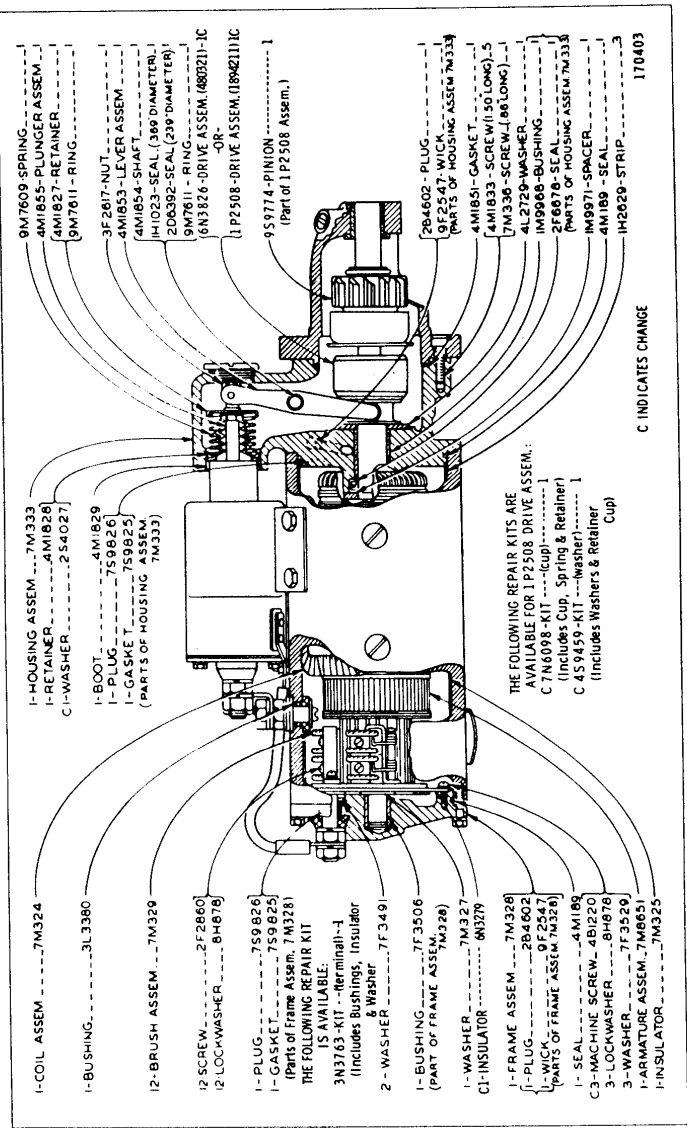
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	1D5117	NUT-----(-jam)-----	2
2	3B4508	LOCKWASHER-----	6
3	4N9405	CONNECTOR-----	1
4	4N9404	LEAD ASSEM.-----	1
5	2P-8819	KIT-----(-field Terminal Stud)-----	1
6	1D4719	NUT-----	4
7	9S7976	SOLENOID ASSEM.-----	1
8	6H3622	SCREW-----	4
9	3B4504	LOCKWASHER-----	4
10	3K6116	WASHER-----	4
11	4M3217	SCREW-----	2
12	4B1220	GASKET-----	3
13	8S1553	LOCKWASHER-----	7
14	1P7831	HEAD ASSEM.-----(-Commutator End)-----	1
15	2B4602	PLUG-----	1
16	1P7832	KIT-----(-Bearing & Wick)-----	1
	4N9403	KIT-----(-Commutator End Terminal Stud)-----	1
		(Includes Stud, Bushing & Washers)	

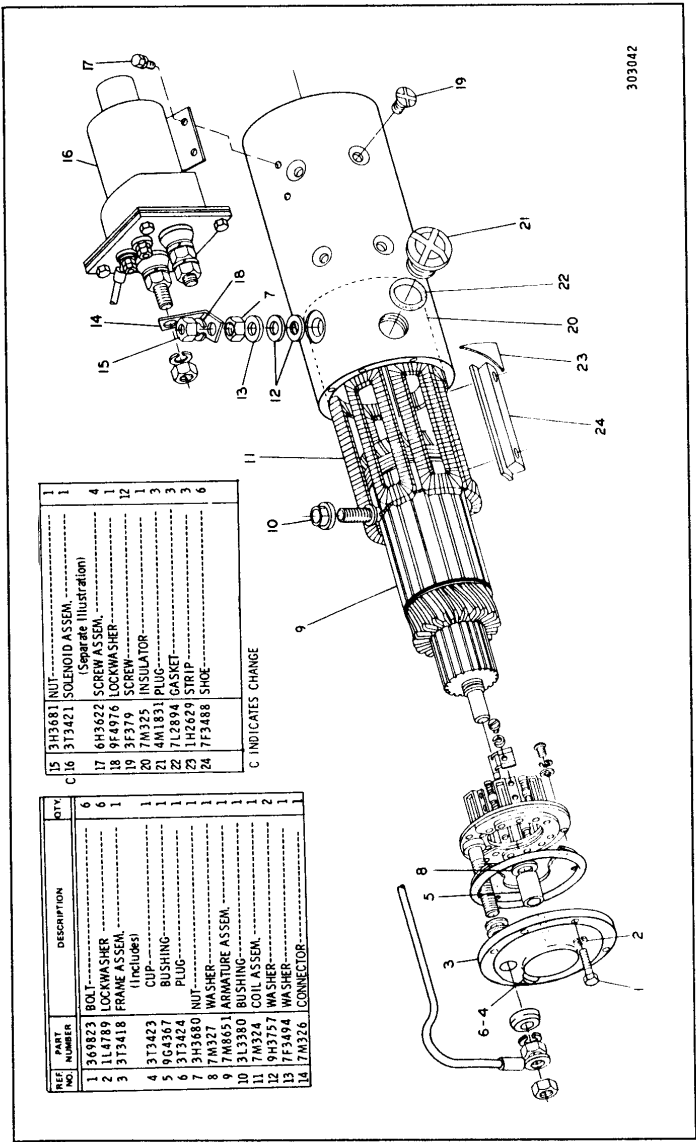
156042



5L3648 ELECTRIC STARTING MOTOR ASSEMBLY—24 Volt—Part 1—Replaced by 3T2785—Page 146A.01
Part of 3N4581 Electric Starting Motor Group shown on Page 140. 4M1812 Solenoid Switch parts are shown on Page 155

5L3648 ELECTRIC STARTING MOTOR ASSEMBLY—24 Volt—Part 2—Replaced by 3T2785—Page 146A.01
Part of 3N4581 Electric Starting Motor Group shown on Page 140

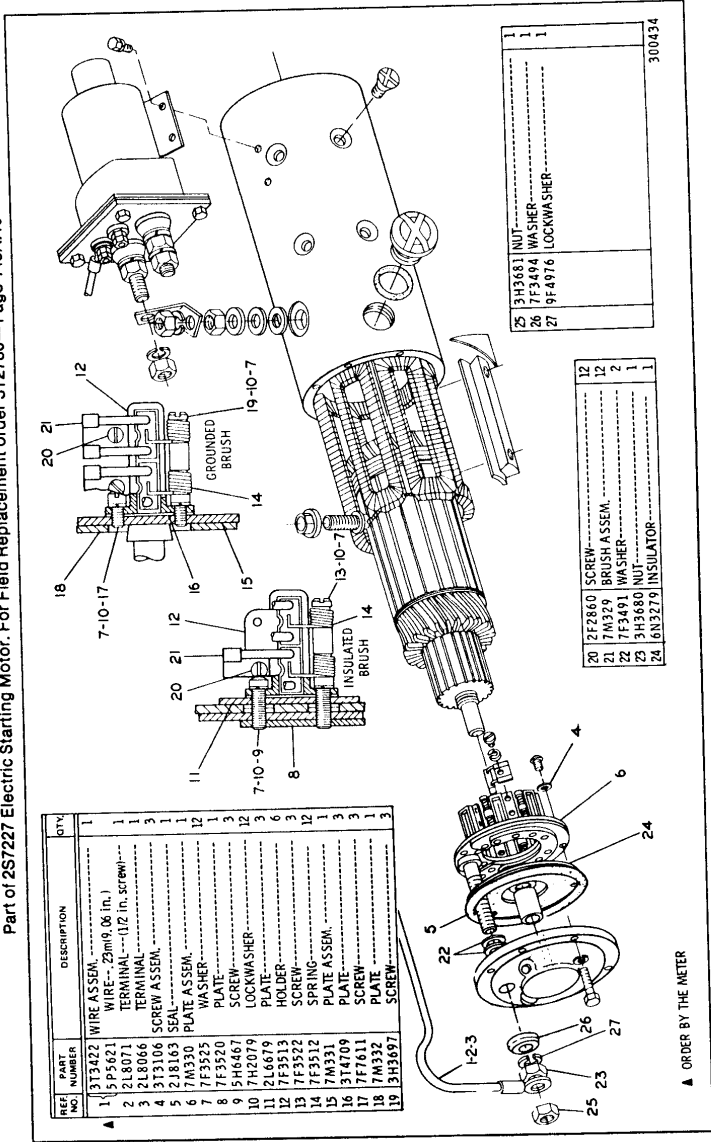


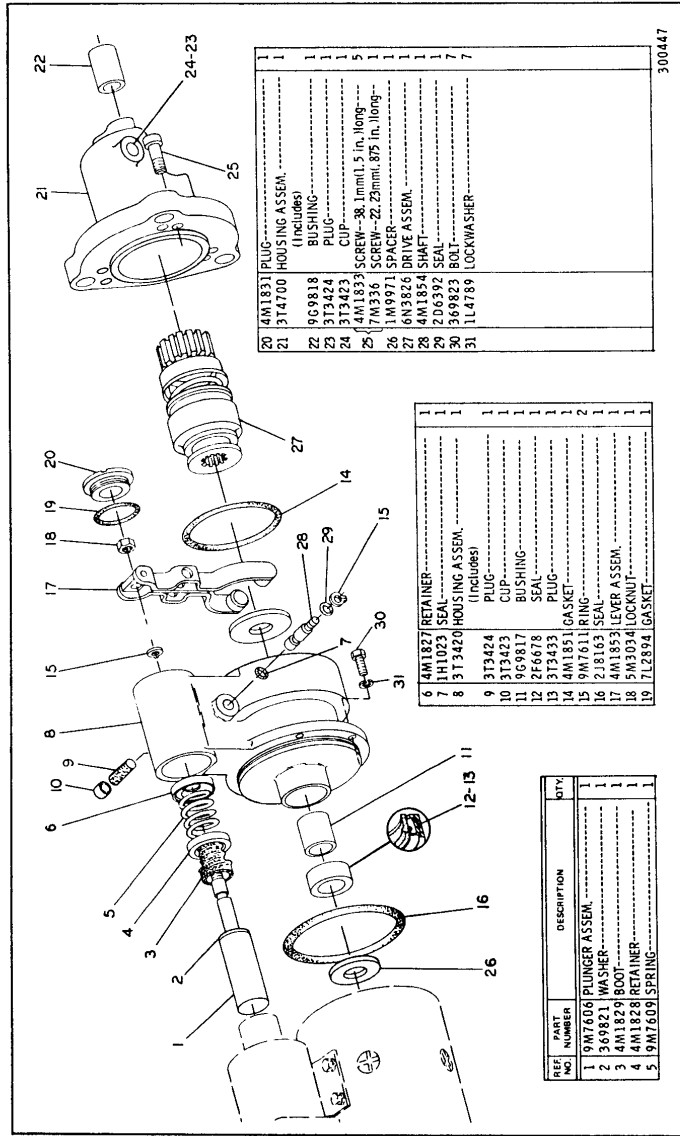


3T2785 ELECTRIC STARTING MOTOR GROUP—Part 1 of 3—Replaced by 6T647—Page 146A.04
Part of 257227 Electric Starting Motor. For Field Replacement order 3T2780—Page 146A.10

303042

3T2785 ELECTRIC STARTING MOTOR GROUP—Part 2 of 3—Replaced by 6T647—Page 146A.04
Part of 2S7227 Electric Starting Motor. For Field Replacement order 3T2780—Page 146A.10

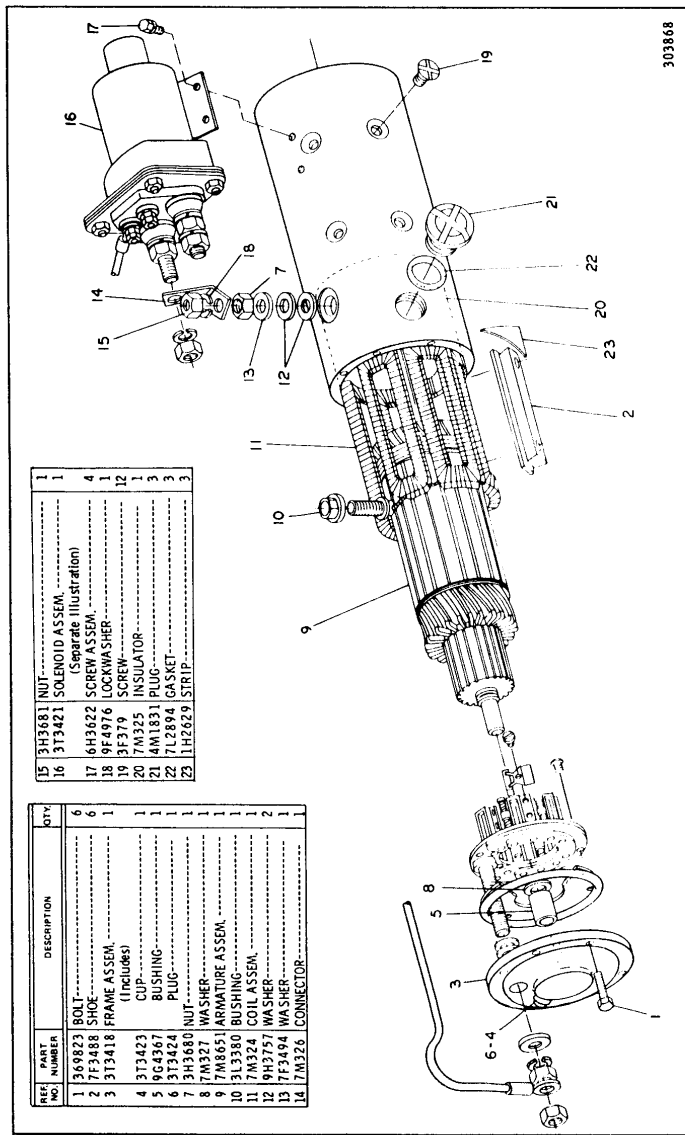




3T2785 ELECTRIC STARTING MOTOR GROUP—Part 3 of 3— Replaced by 6T647 — Page 146A.04
Part of 2S7227 Electric Starting Motor. For Field Replacement order 3T2780— Page 146A.10

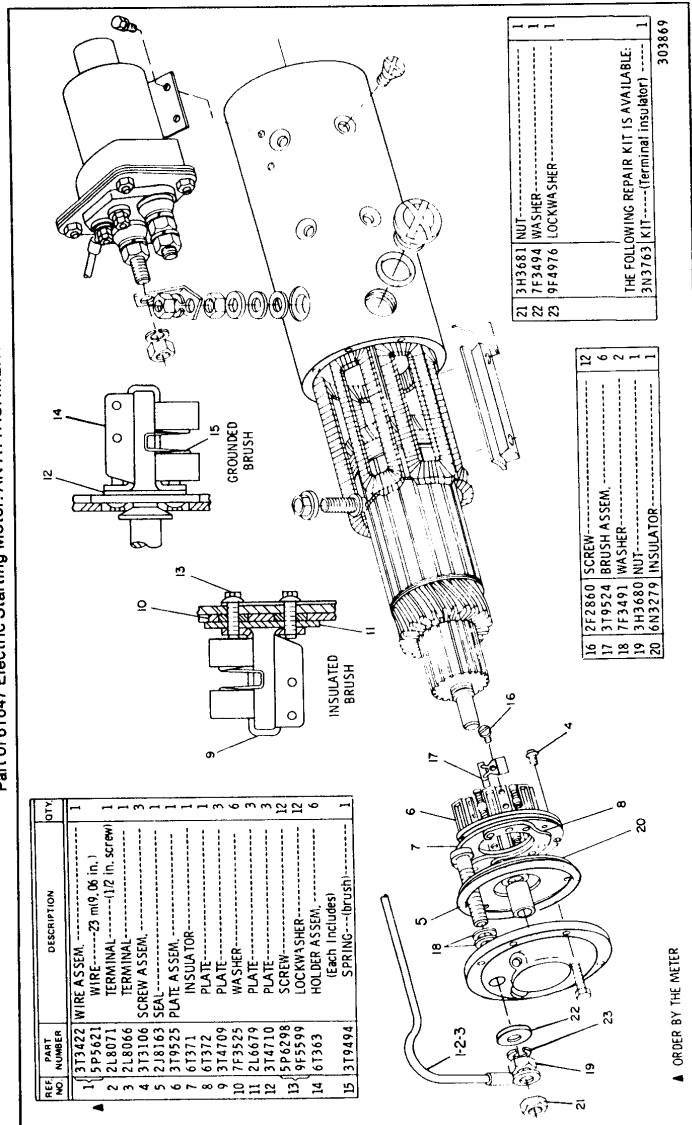
CONSISTING OF:		PAGE
1	7G7906 ELECTRIC STARTING MOTOR GROUP-- (PRESTOLITE)	146A.08
- OR -		
1	3T8953 ELECTRIC STARTING MOTOR GROUP-- (DELCO-REMY)	146A.05

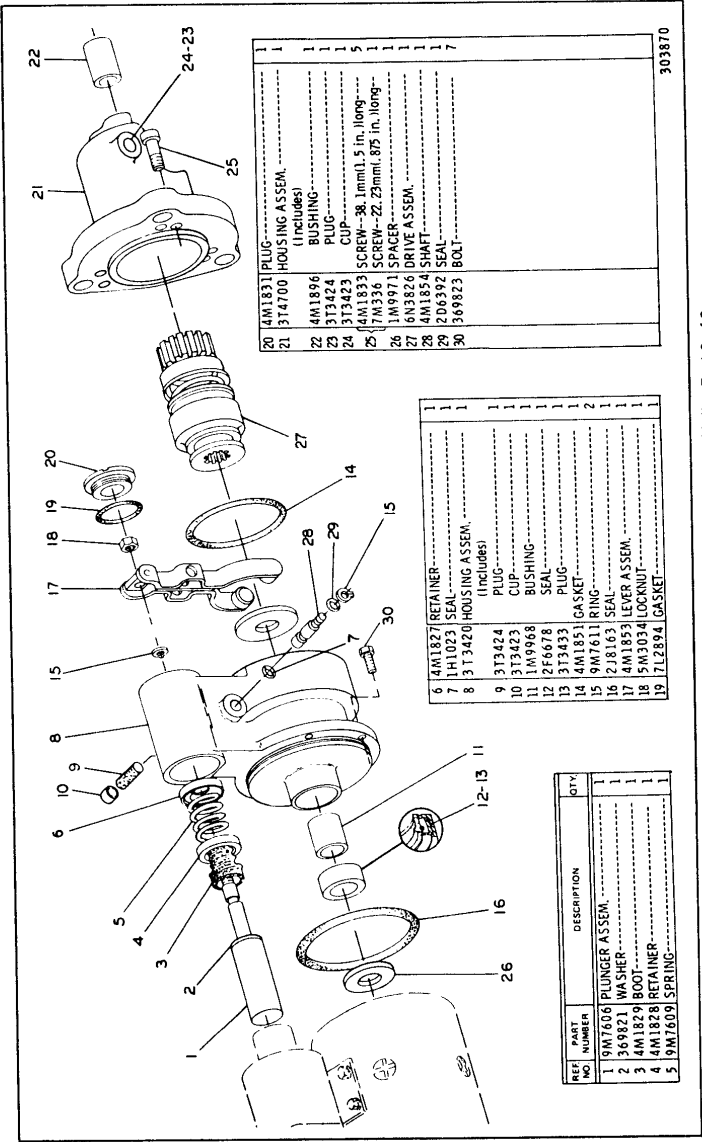
6T647 ELECTRIC STARTING MOTOR GROUP—24 Volt
Part of 5N4109 Electric Starting Motor Group
For Field Replacement order 3T8967—Page 146A.13
AN ATTACHMENT



3T8953 ELECTRIC STARTING MOTOR GROUP—24 Volt — Part 1 of 3
3T3421 — Page 154A, Part of 6T647 Electric Starting Motor
AN ATTACHMENT

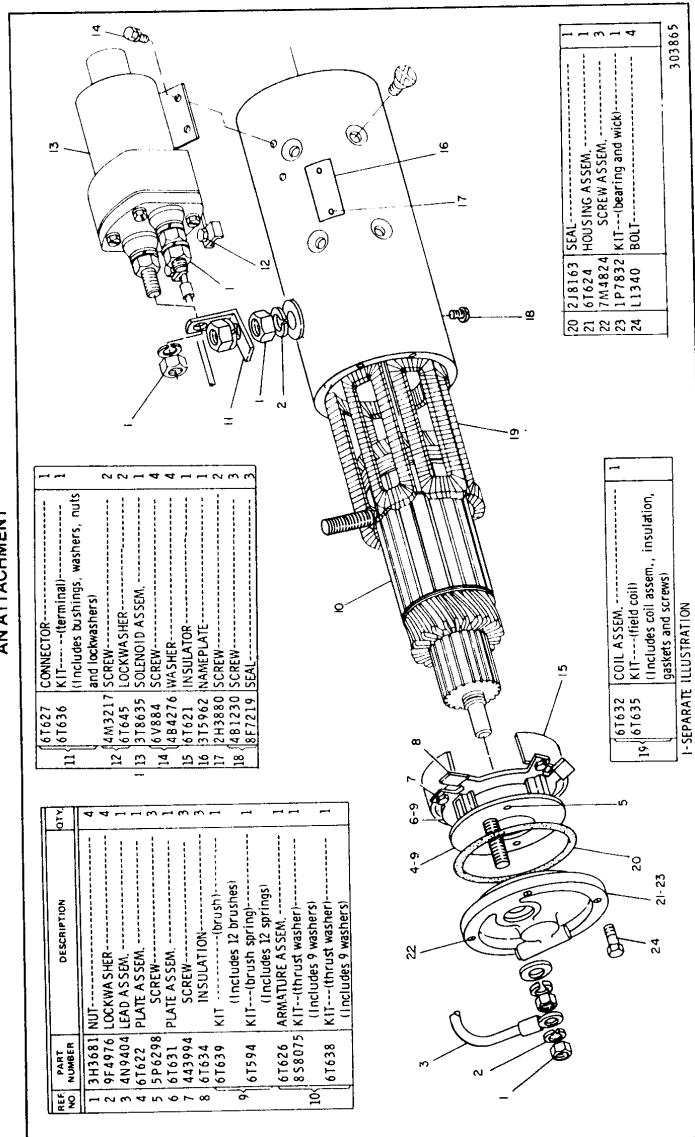
3T8953 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 2 of 3
Part of 6T647 Electric Starting Motor. AN ATTACHMENT

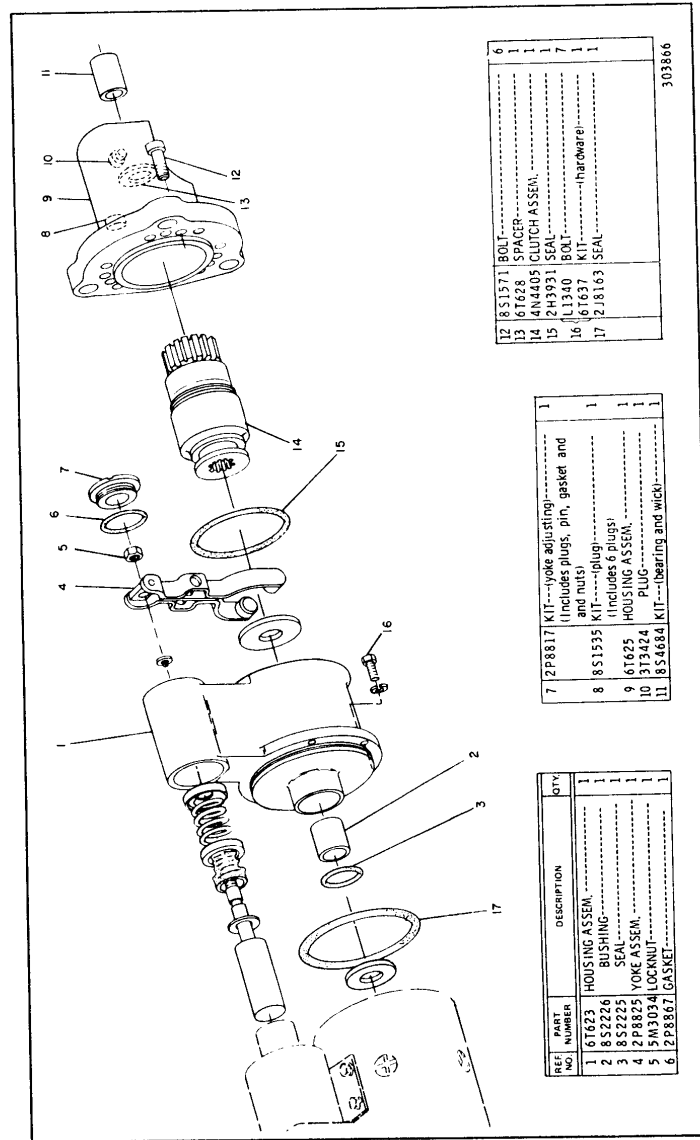




3T8953 ELECTRIC STARTING MOTOR GROUP--24 Volt--Part 3 of 3
Part of 6T647 Electric Starting Motor. AN ATTACHMENT

7G7906 ELECTRIC STARTING MOTOR GROUP—24 Vol.—Part 1
3T8635—Page 154B, Part of 6T647 Electric Starting Motor
AN ATTACHMENT





REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	6T623	HOUSING ASSEM.	1
2	852226	BUSHING.....	1
3	852225	SEAL.....	1
4	2P8825	YOKE ASSEM.	1
5	5M3034	LOCKNUT.....	1
6	2P8867	GASKET.....	1

7	2P8817	KIT---(yoke adjusting and nuts).....	1
8	851535	KIT---(plugs).....	1
9	6T625	HOUSING ASSEM.	1
10	3T3424	PLUG.....	1
11	854684	KIT---(bearing and wick).....	1

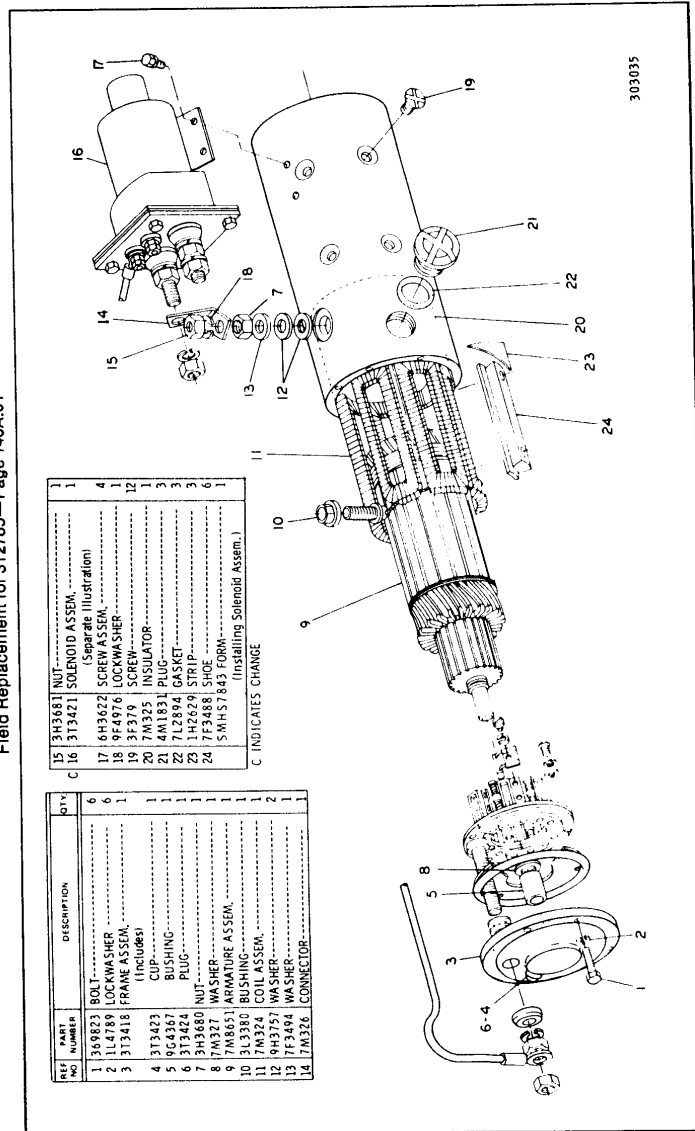
12	851571	BOLT.....	6
13	6T628	SPACER.....	1
14	4N4405	CLUTCH ASSEM.	1
15	2H3931	SEAL.....	7
16	1L1340	BOLT.....(hardware).....	1
17	2J8163	SEAL.....	1

3T2780 ELECTRIC STARTING MOTOR GROUP—Part 1 of 3—Replaced by 3T8967—Page 146A.13
Field Replacement for 3T2785—Page 146A.01

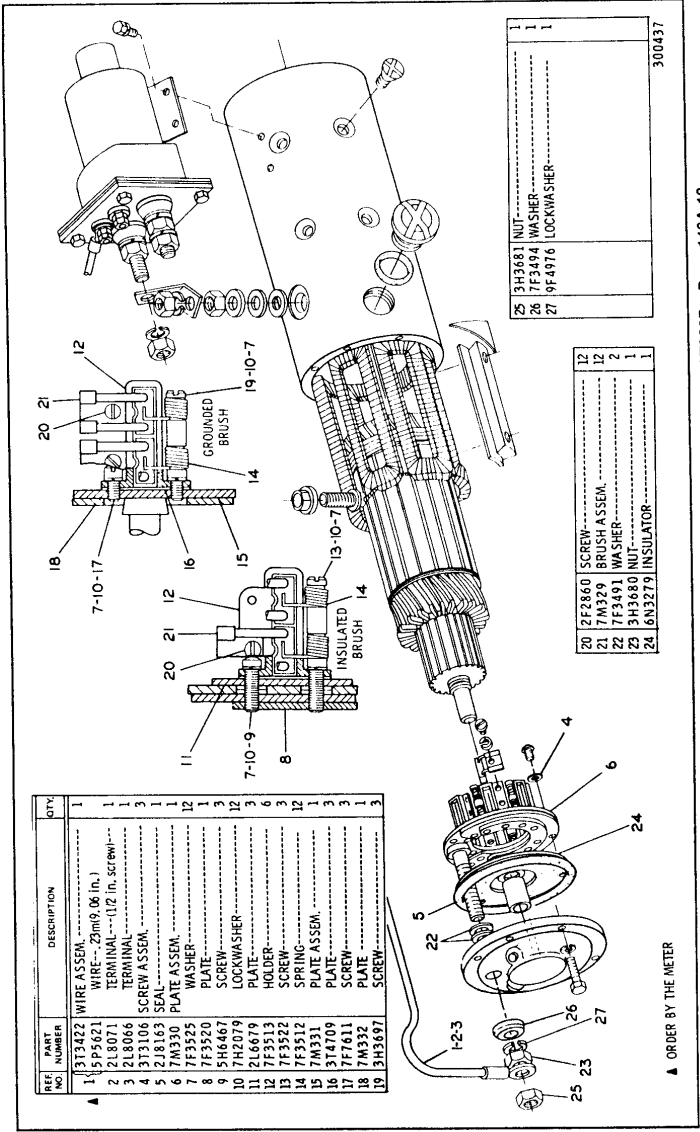
QTY	PART NUMBER	DESCRIPTION
6	1 3G923	BOLT
1	2 1L489	LOCKWASHER
1	3 3T3418	FRAME ASSEM. (Includes)
1	4 3T3423	CUP
1	5 9G4367	BUSHING
1	6 3T3424	PLUG
1	7 3H3680	NUT
1	8 7M327	WASHER
1	9 7M8651	ARMATURE ASSEM.
1	10 2L3380	BUSHING
2	11 7M324	COIL ASSEM.
2	12 9H3757	WASHER
1	13 7F3494	WASHER
1	14 7M326	CONNECTOR

15	3H3681	NUT	1
16	3T3421	SOLENOID ASSEM. (Separate Illustration)	4
17	6H3622	SCREW ASSEM.	12
18	9F4976	LOCKWASHER	1
19	3F379	SCREW	1
20	7M325	INSULATOR	3
21	4M1831	PLUG	3
22	7L2894	GASKET	1
23	1H2629	STRIP	1
24	7F3486	SCREW	1
25	5H3786	SWITCH FORM (Installing Solenoid Assem.)	1

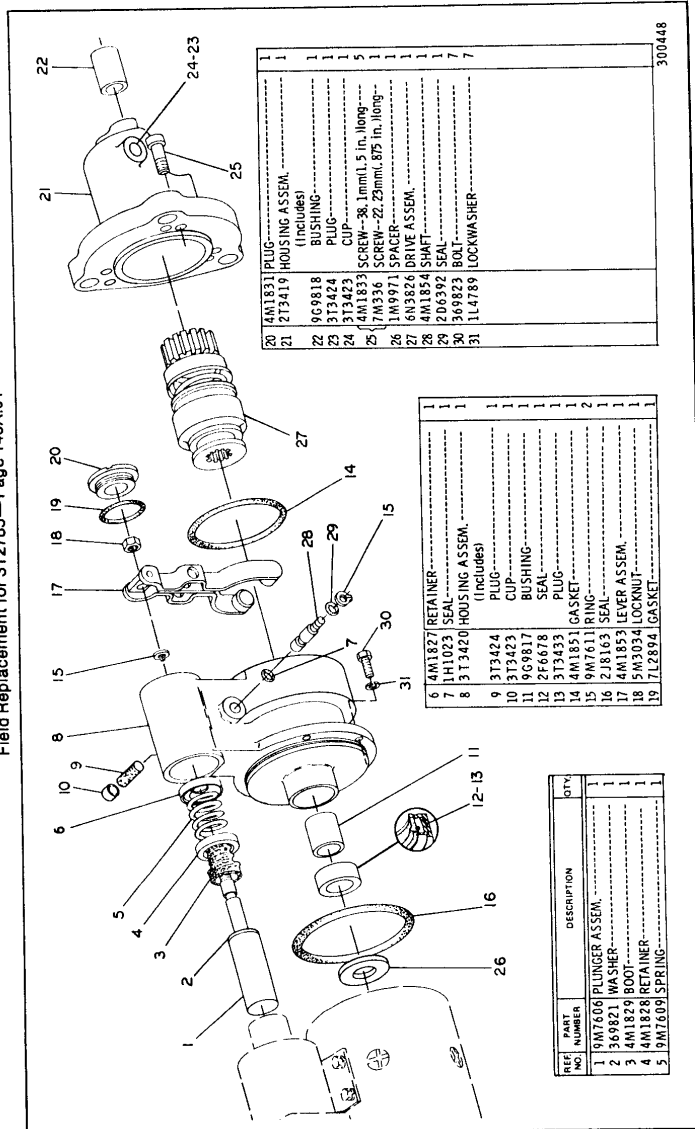
C INDICATES CHANGE



303035



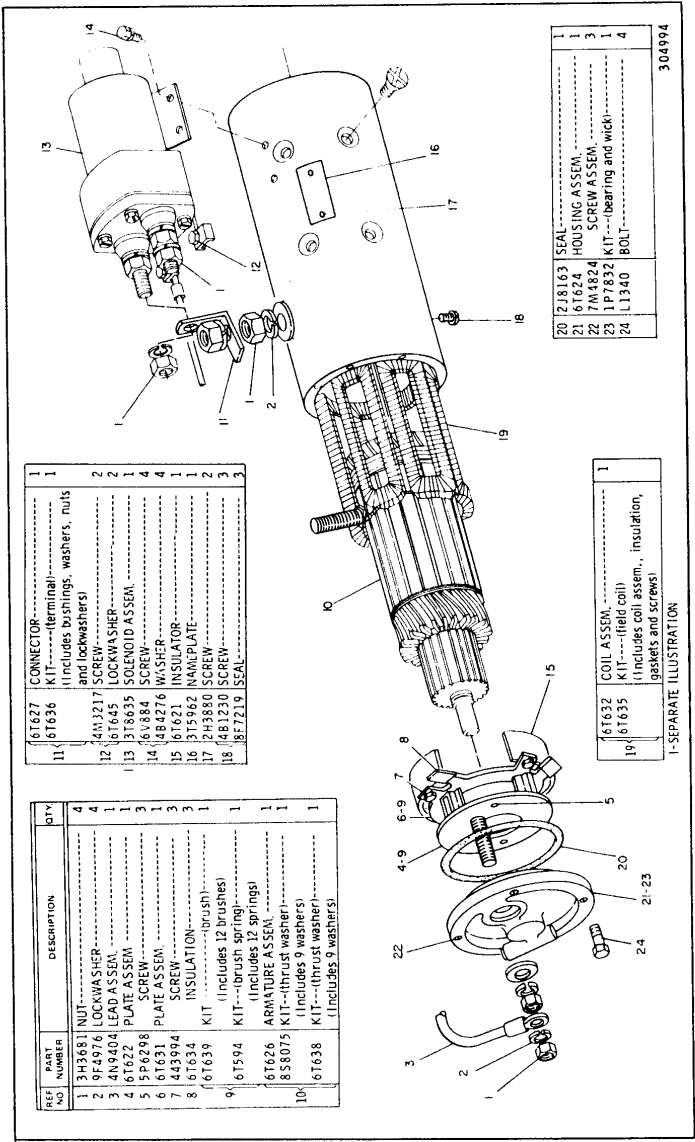
3T2780 ELECTRIC STARTING MOTOR GROUP—Part 2 of 3—Replaced by 3T8967—Page 146A.13
Field Replacement for 3T2785—Page 146A.01

3T2780 ELECTRIC STARTING MOTOR GROUP—Part 3 of 3—Replaced by 3T8967—Page 146A.13
Field Replacement for 3T2785—Page 146A.01

CONSISTS OF:		PAGE
1	6T640 ELECTRIC STARTING MOTOR GROUP-- (PRESTOLITE)	146A.14
- OR -		
1	3T8949 ELECTRIC STARTING MOTOR GROUP-- (DELCO-REMY)	146A.16

3T8967 ELECTRIC STARTING MOTOR GROUP—24 Volt
Field Installation

6T640 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 1
3T8635—Page 154B. Part of 3T8967 Electric Starting Motor
AN ATTACHMENT



QTY	DESCRIPTION
1	3H3681 NUT
4	2 9F4976 LOCKWASHER
1	3 4N4004 LEAD ASSEM
1	4 6T622 PLATE ASSEM
1	5 5P6298 SCREW
1	6 6T631 PLATE ASSEM
1	7 443994 SCREW
1	8 6T634 KIT (includes 12 brushes)
1	9 6T639 KIT (includes 12 brushes)
1	6T594 KIT (includes 12 brushes)
1	6T626 ARMATURE ASSEM
1	858075 KIT (includes 9 washers)
1	6T638 KIT (includes 9 washers)

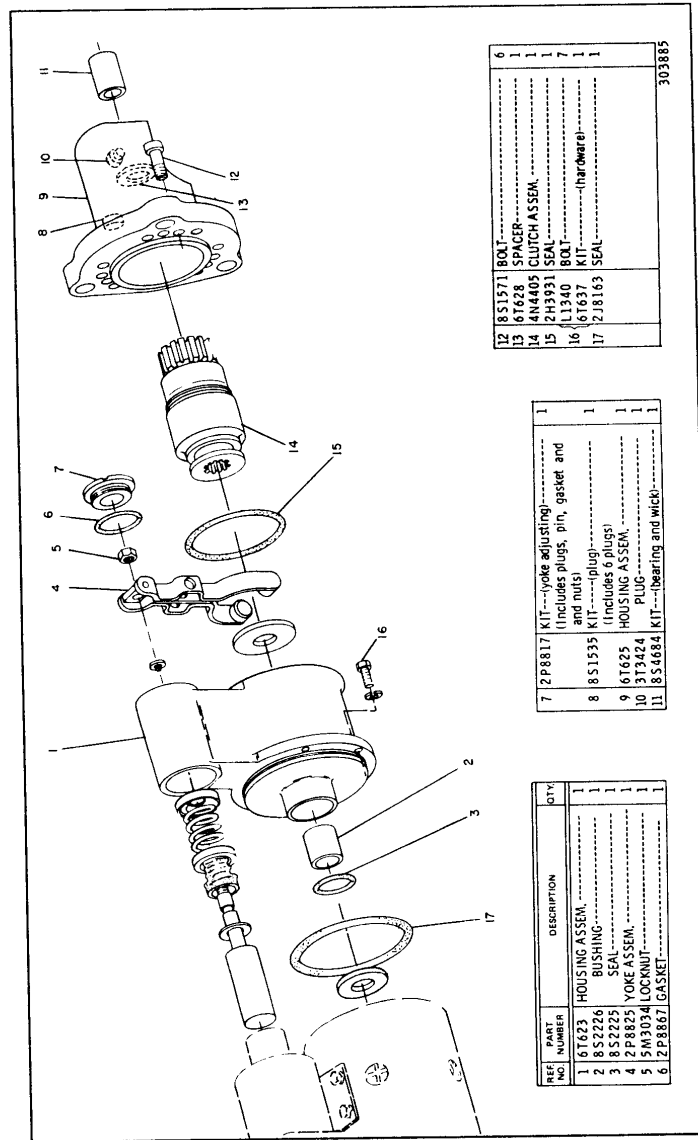
QTY	DESCRIPTION
1	6T627 CONNECTOR
1	6T636 KIT (includes bushings, washers, nuts and lockwashers)
2	4N3217 SCREW
1	6T645 LOCKWASHER
1	3T8635 SOLENOID ASSEM
1	8V884 SCREW
1	4B4276 WASHER
1	6T621 INSULATOR
1	2H5850 INANIMATE
1	461230 SCREW
1	8T7219 SEAL

20	2J8163 SEAL
21	6T624 HOUSING ASSEM
22	7M4824 SCREW ASSEM
23	1P7832 KIT (includes bearing and wick)
24	L1340 BOLT

1	6T632 COIL ASSEM
1	6T635 KIT (includes coil, insulation, gaskets and screws)

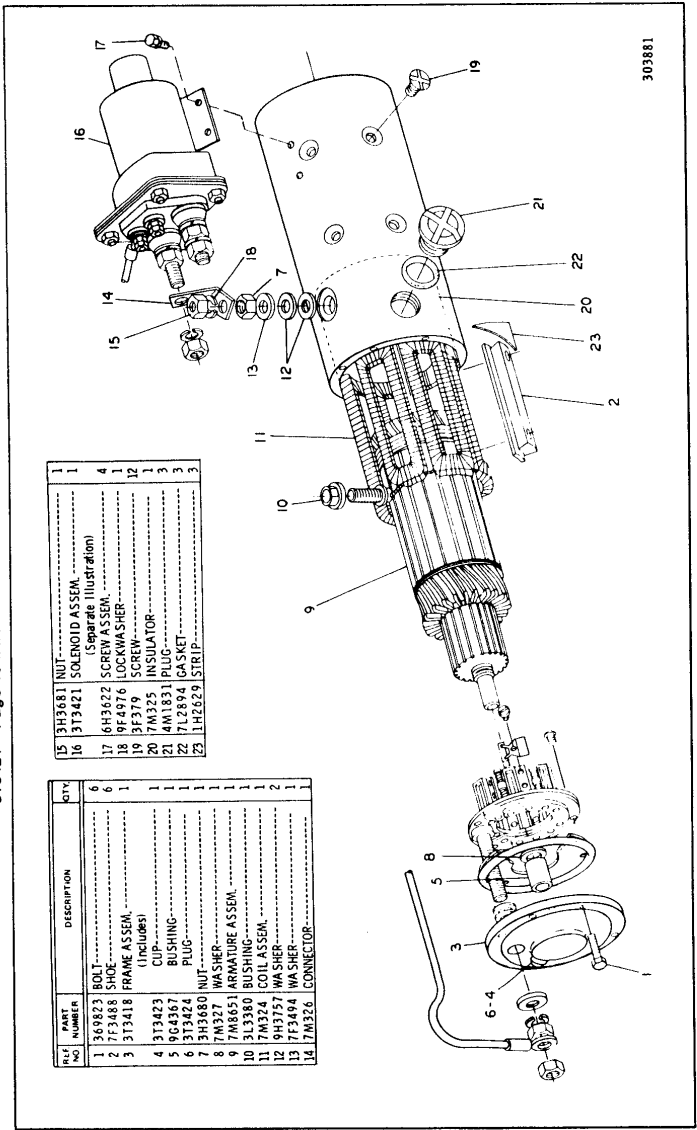
1- SEPARATE ILLUSTRATION

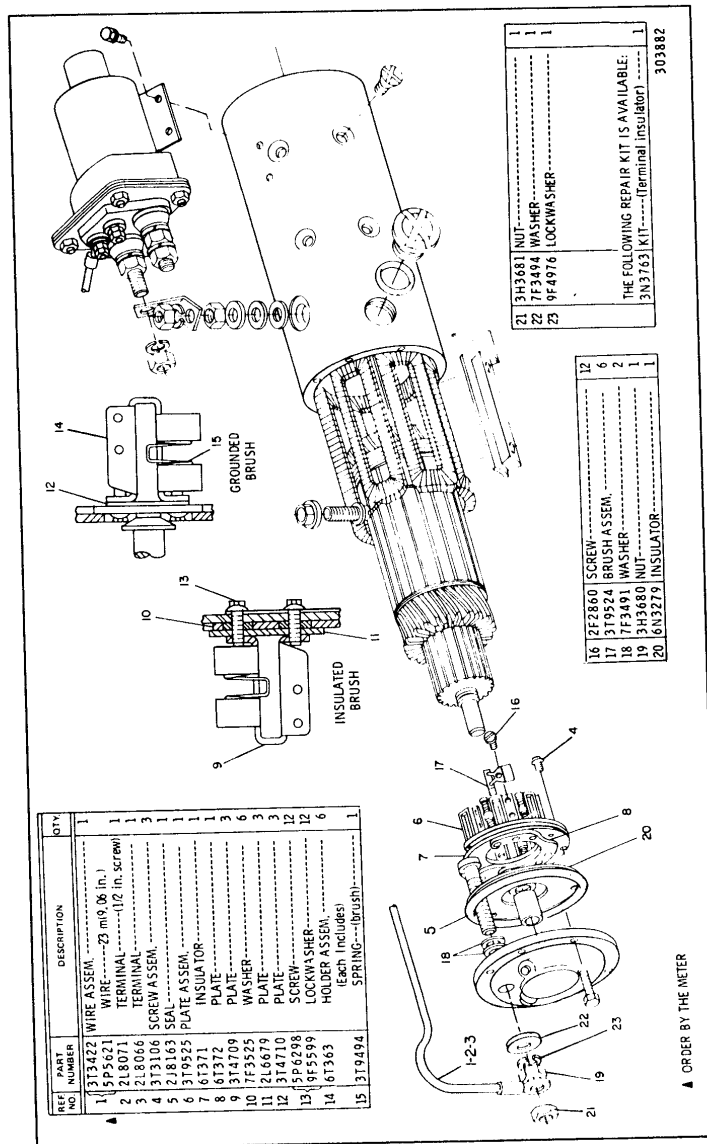
304994



6T640 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 2
Part of 3T8967 Electric Starting Motor

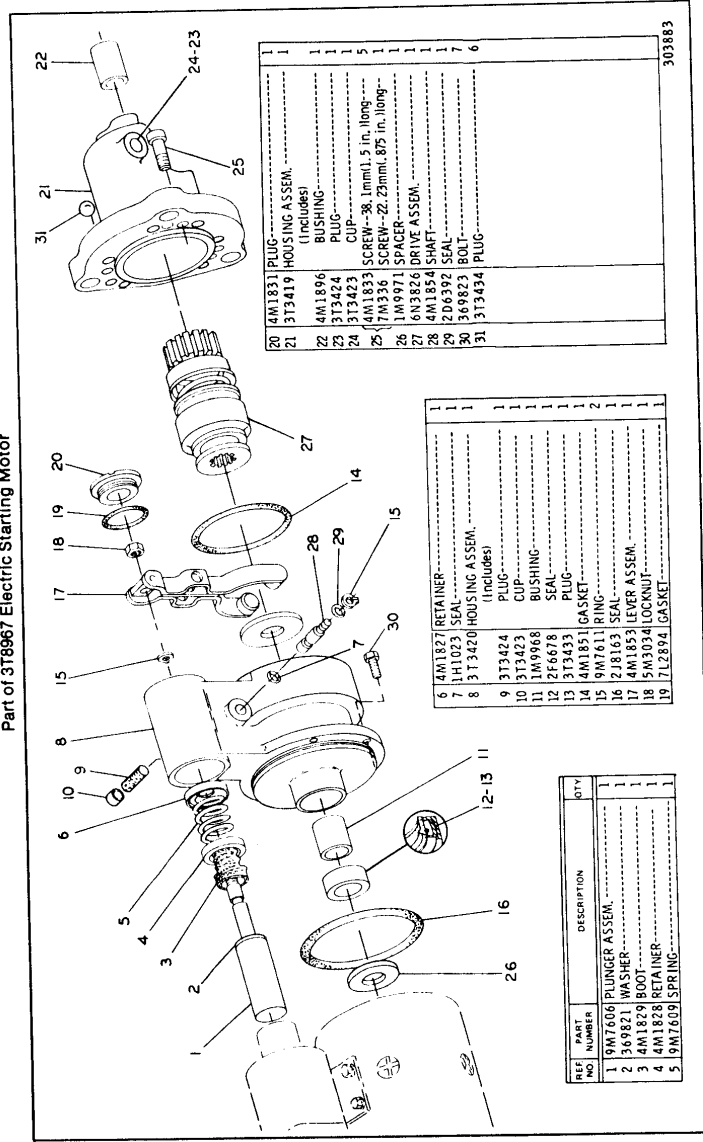
3T8949 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 1 of 3
3T3421—Page 154A. Part of 3T8967 Electric Starting Motor





3T8949 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 2 of 3
 Part of 3T8967 Electric Starting Motor

3T8949 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 3 of 3
Part of 3T8987 Electric Starting Motor

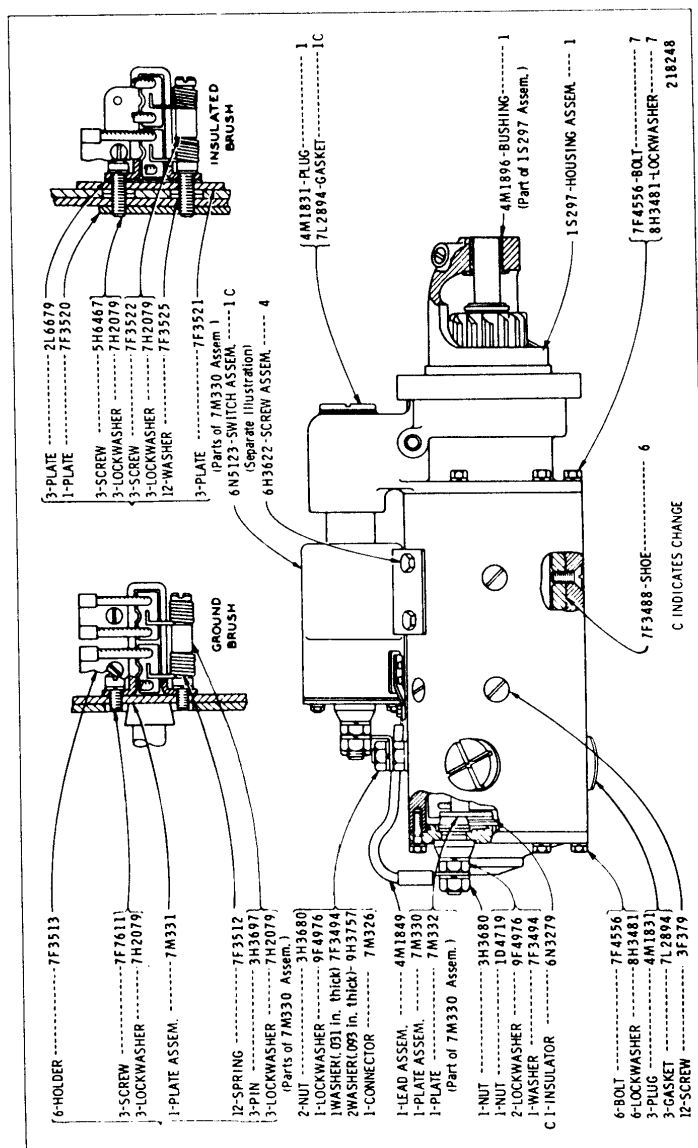


20	4M1831	PLUG	1
21	3T3419	HOUSING ASSEM. (includes)	1
22	4M1896	BUSHING	1
23	3T3424	PLUG	1
24	3T3423	CUP	5
25	4M1833	SCREW--38, 1mm1.5 in. long--	1
26	4M1836	SCREW--22, 2mm1.875 in. long--	1
27	4M1827	RETAINER	1
28	4M1854	DRIVE ASSEM.	1
29	4M1854	SHAFT	1
30	2D6392	SEAL	1
31	3T3434	PLUG	6

6	4M1827	RETAINER	1
7	1H1023	SEAL	1
8	3T3420	HOUSING ASSEM. (includes)	1
9	3T3424	PLUG	1
10	3T3423	CUP	1
11	1M9968	BUSHING	1
12	2F6678	SEAL	1
13	3T3433	PLUG	1
14	4M1851	GASKET	1
15	9M7611	RING	2
16	2J8163	SEAL	1
17	4M1853	LEVER ASSEM.	1
18	5M3034	LOCKNUT	1
19	7L2894	GASKET	1

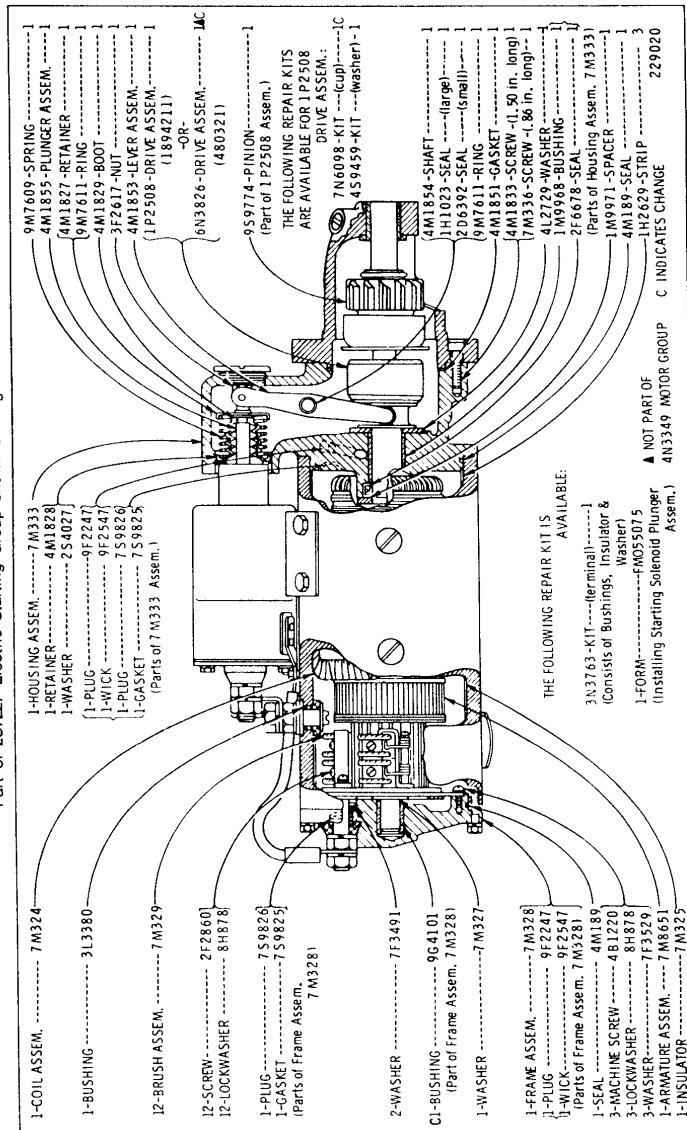
NO.	PART NO.	DESCRIPTION	QTY.
1	9M7608	PLUNGER ASSEM.	1
2	367821	WASHER	1
3	4M1829	SCREW	1
4	4M1828	RETAINER	1
5	9M7609	SPRING	1

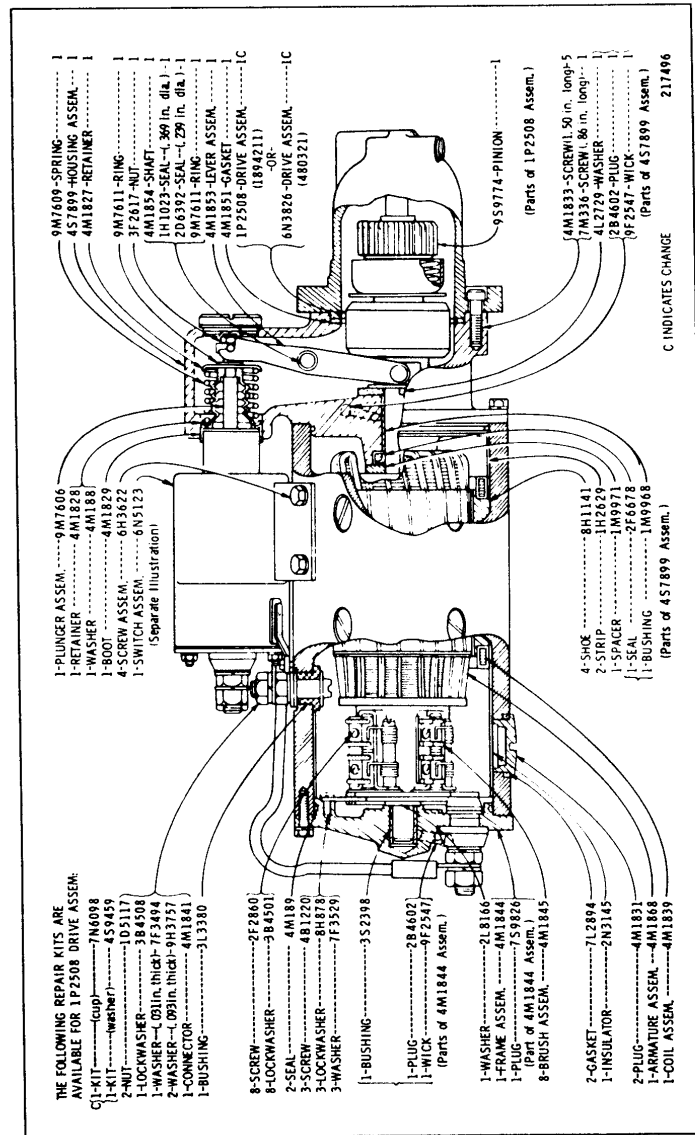
303883



4N3349 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 1
 Part of 2S7227 Electric Starter Group shown on Page 137B
 6N5123 Switch parts are shown on Page 155

4N3349 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 2
Part of 2S7227 Electric Starting Group shown on Page 137B

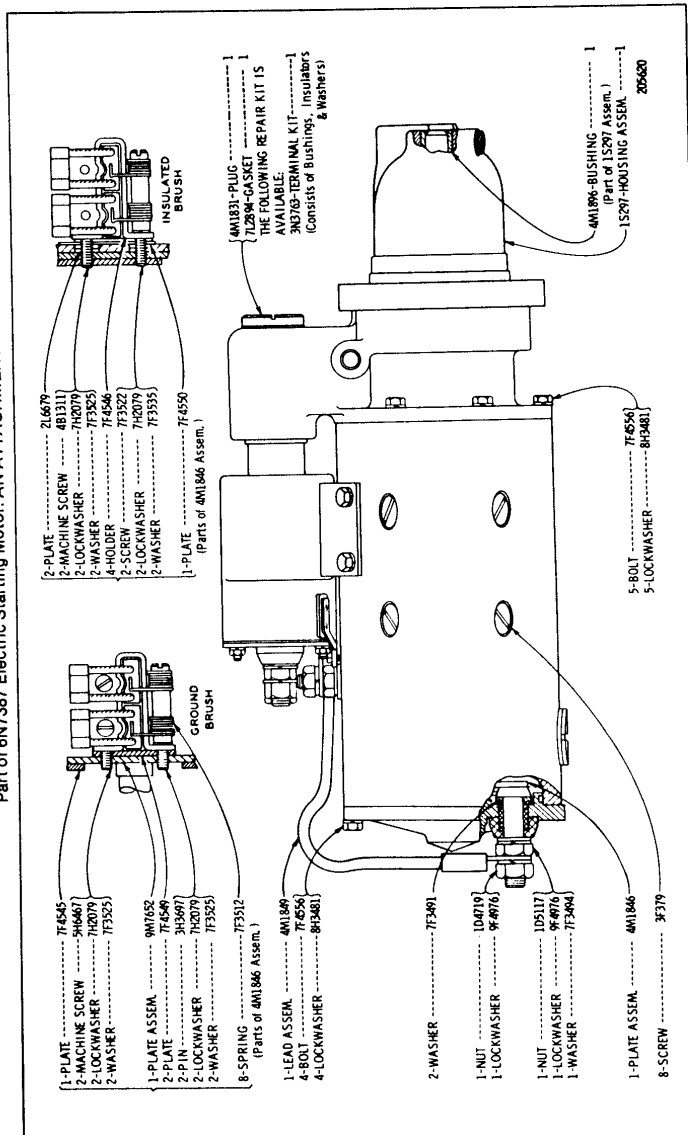


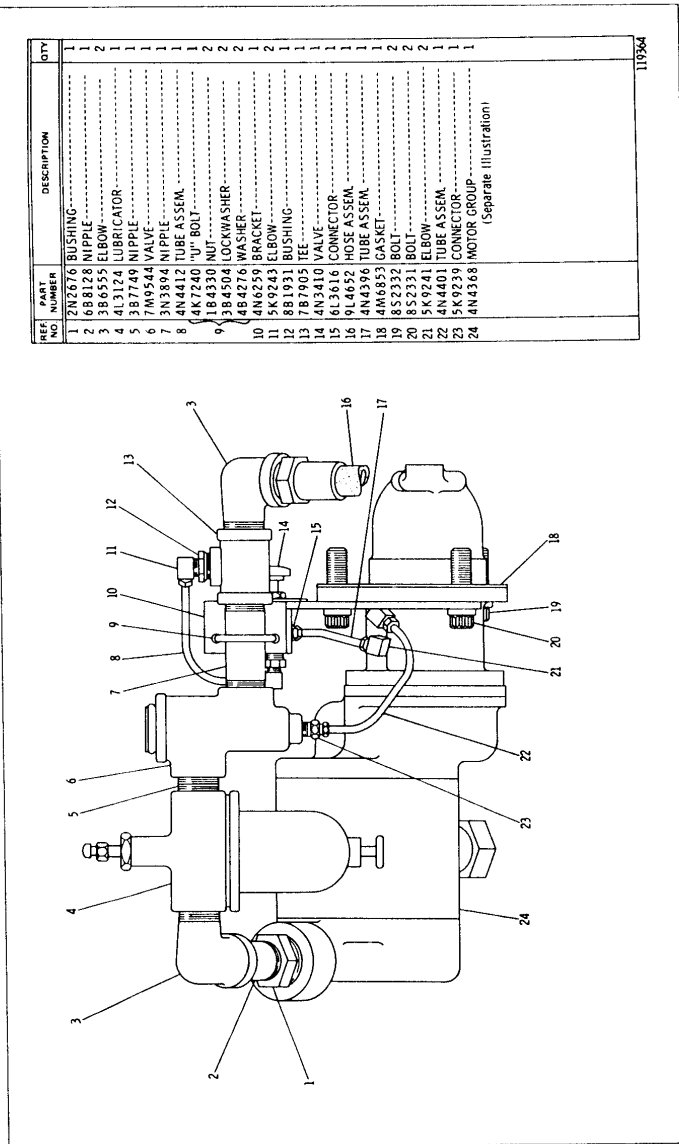


6N3122 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 1
 6N5123—Page 155, Part of 6N7387 Electric Starting Motor
 AN ATTACHMENT



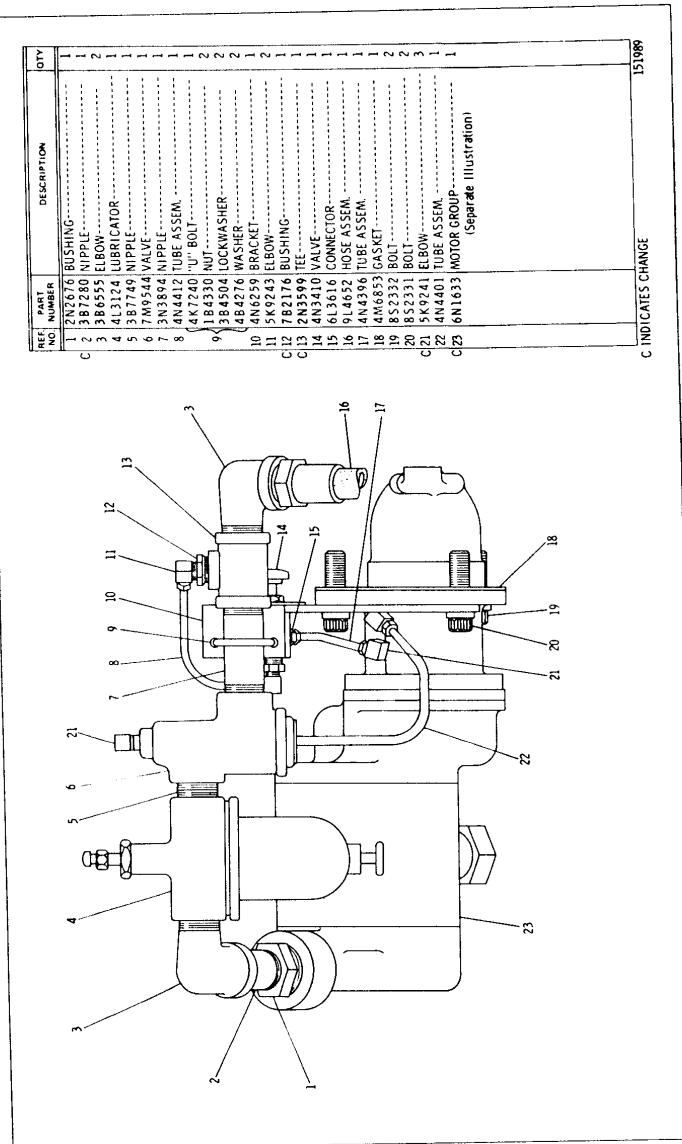
9N453 ELECTRIC STARTING MOTOR GROUP—24 Volt—Part 2
Part of 6N7387 Electric Starting Motor AN ATTACHMENT

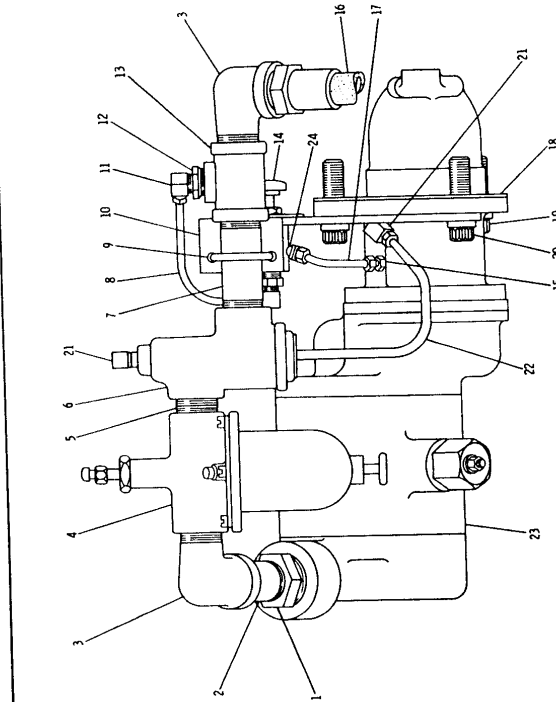




4N4395 AIR STARTING MOTOR GROUP—Type 1
4N4368 Motor parts are shown on Page 149
AN ATTACHMENT

4N4395 AIR STARTING MOTOR GROUP—Type 2
6N1633 Motor parts are shown on Page 148B
AN ATTACHMENT

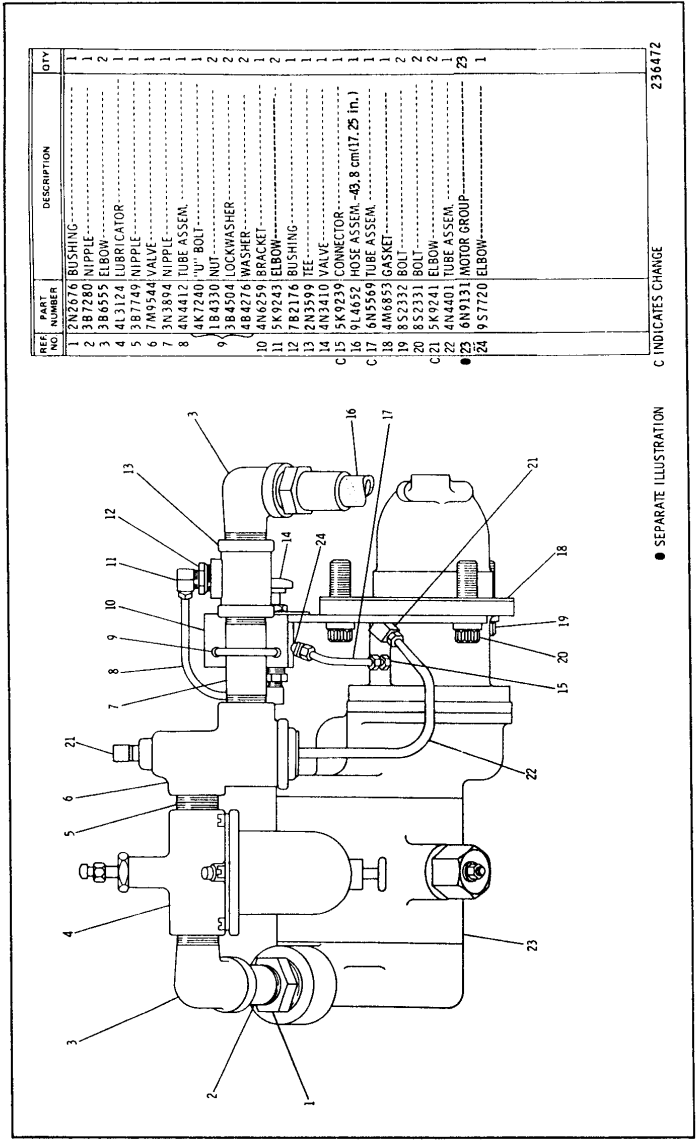


4N4395 AIR STARTING MOTOR GROUP—Type 3
6N1633—Page 148B. AN ATTACHMENT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	2N2674	BUSHING	1
2	3B7280	NIPPLE	1
3	3B6555	ELBOW	2
4	4L3124	LUBRICATOR	1
5	3B7749	NIPPLE	1
6	7N9544	VALVE	1
7	3N3884	NIPPLE	1
8	4N4412	TUBE ASSEM.	1
9	4K7240	"U" BOLT	1
10	1B4330	NUT	2
11	3B4504	LOCKWASHER	2
12	4B4276	WASHER	2
13	4N6259	BRACKET	2
14	5K9243	ELBOW	1
15	7B2176	BUSHING	1
16	2N3594	TEE	1
17	4N3410	VALVE	1
18	5K9239	CONNECTOR	1
19	9L4652	HOSE ASSEM. —43.8 cm (17.25 in.)	1
20	6N5569	TUBE ASSEM.	1
21	4M6853	GASKET	2
22	852332	BOLT	2
23	852331	BOLT	2
24	5K9241	ELBOW	1
25	4N4401	TUBE ASSEM.	1
26	6N1633	MOTOR GROUP (Separate Illustration)	1
27	9S7720	ELBOW	1

C INDICATES CHANGE

236471



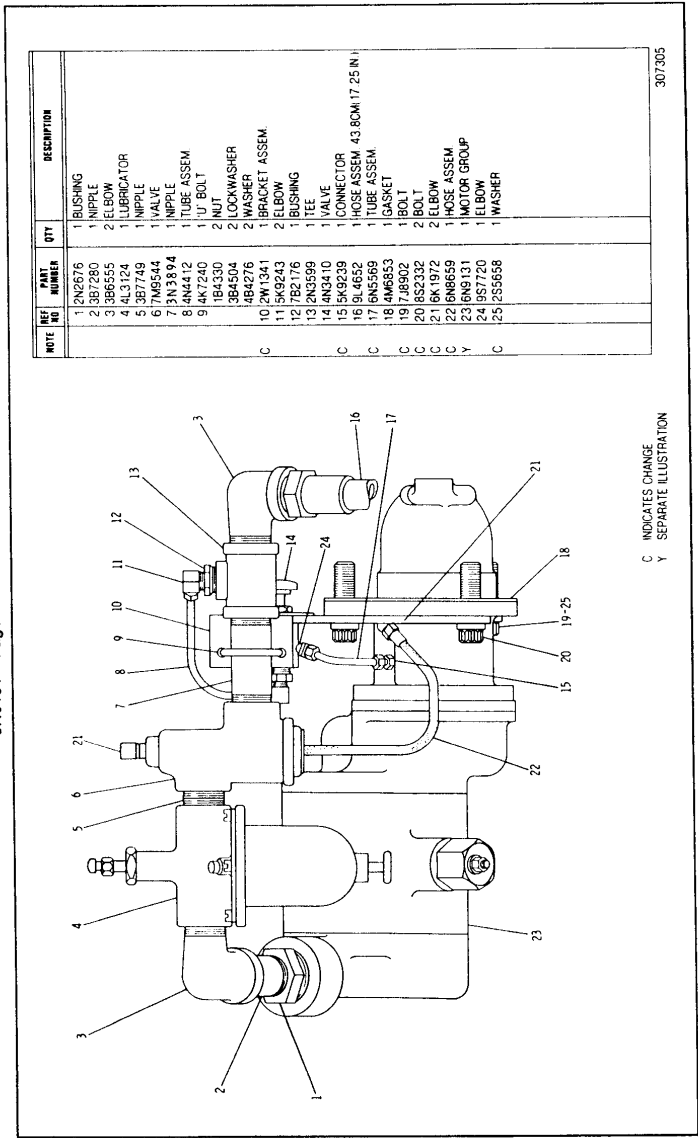
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	2N3576	BUSHING	1
2	3B7280	NIPPLE	1
3	3B6555	ELBOW	2
4	4L3124	LUBRICATOR	1
5	3B7749	NIPPLE	1
6	7N6544	VALVE	1
7	3N3894	NIPPLE	1
8	4N4412	TUBE ASSEM.	1
9	4K7240	"1/2" BOLT	1
10	1B4330	NUT	2
11	3B4504	LOCKWASHER	2
12	4B4276	WASHER	2
13	4N6259	BRACKET	1
14	5K9243	ELBOW	2
15	7B2176	BUSHING	1
16	2N3599	TEE	1
17	4N3410	VALVE	1
18	5K9239	CONNECTOR	1
19	9L4652	HOSE ASSEM.-43.8 cm(17.25 in.)	1
20	6N5569	TUBE ASSEM.	1
21	4M6853	GASKET	2
22	852332	BOLT	2
23	5K9241	ELBOW	2
24	4N4401	TUBE ASSEM.	1
25	6N9131	MOTOR GROUP	1
26	9S7720	ELBOW	1

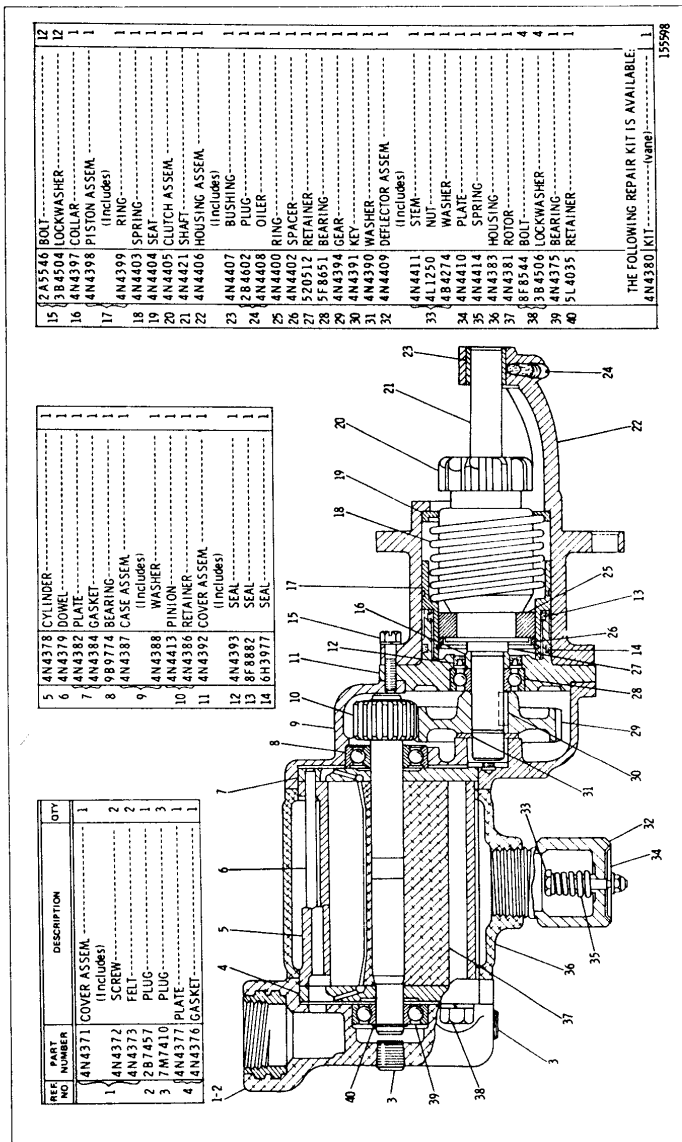
C INDICATES CHANGE

236472

4N4395 AIR STARTING MOTOR GROUP—Type 4
6N9131—Page 148B.01, AN ATTACHMENT

4N4395 AIR STARTING MOTOR GROUP—Type 5
6N9131—Page 148B.01, AN ATTACHMENT



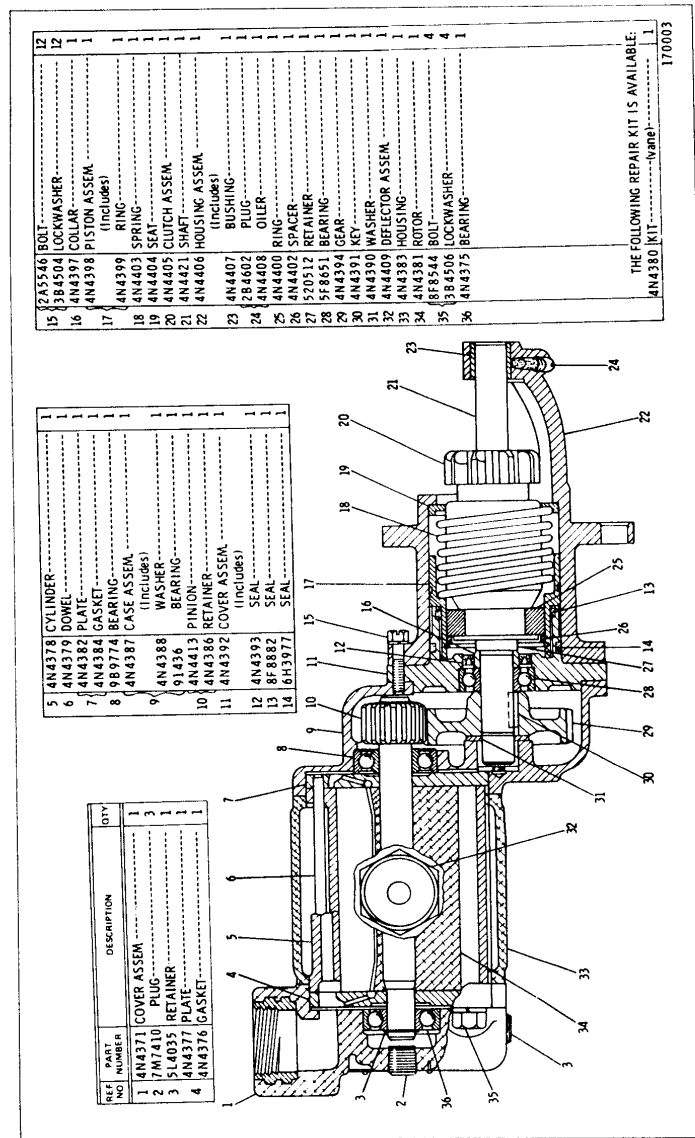


6N1633 AIR MOTOR GROUP
Part of 4N4395 Air Starting Motor Group shown on Pages 148A & 148A-2

6N9131 AIR MOTOR GROUP
Part of 4N4395 Air Starting Motor Group shown on Page 148A-2

REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	4N4371	COVER ASSEM. (Includes)	1
2	4N4372	SCREW	2
3	4N4373	FELT	2
4	4N4374	PLUG	2
5	4N4375	PLUG	3
6	4N4376	PLATE	1
7	4N4377	GASKET	1

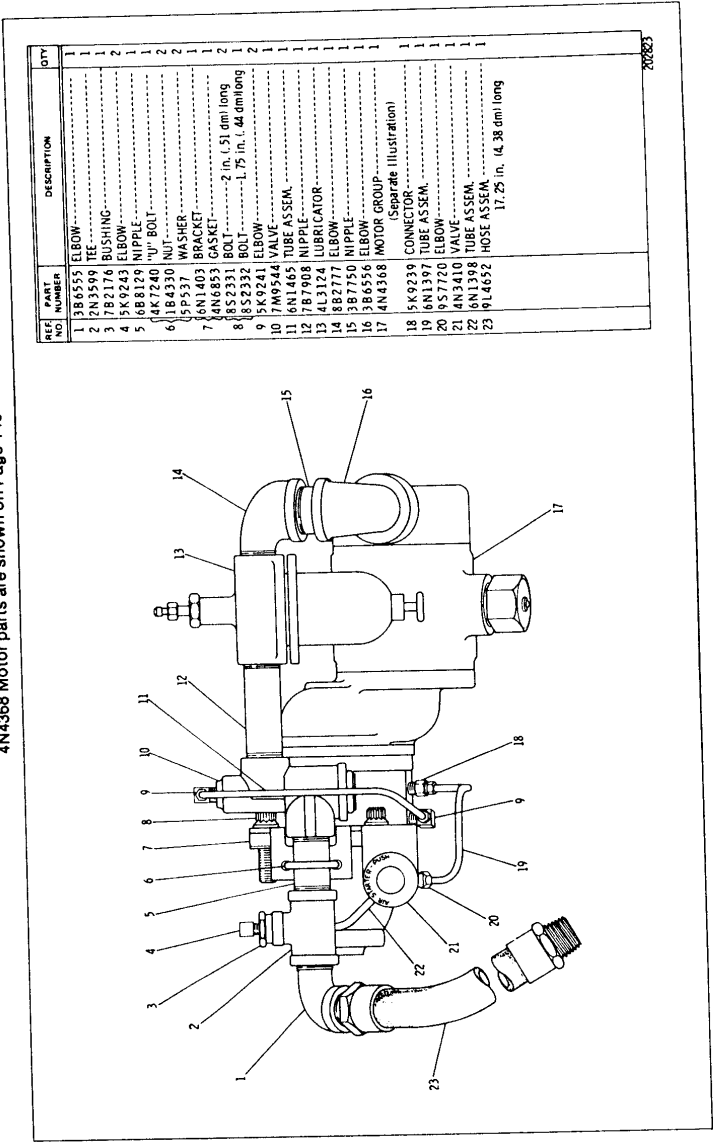
5	4N4378	CYLINDER	1
6	4N4379	DOWEL	1
7	4N4382	PLATE	1
8	4N4384	GASKET	1
9	989774	BEARING	1
10	4N4387	CASE ASSEM. (Includes)	1
11	4N4388	WASHER	1
12	91436	BEARING	1
13	4N4413	PINION	1
14	4N4386	RETAINER	1
15	4N4392	COVER ASSEM. (Includes)	1
16	4N4393	SEAL	1
17	8F8682	SEAL	1
18	8F8687	SEAL	1

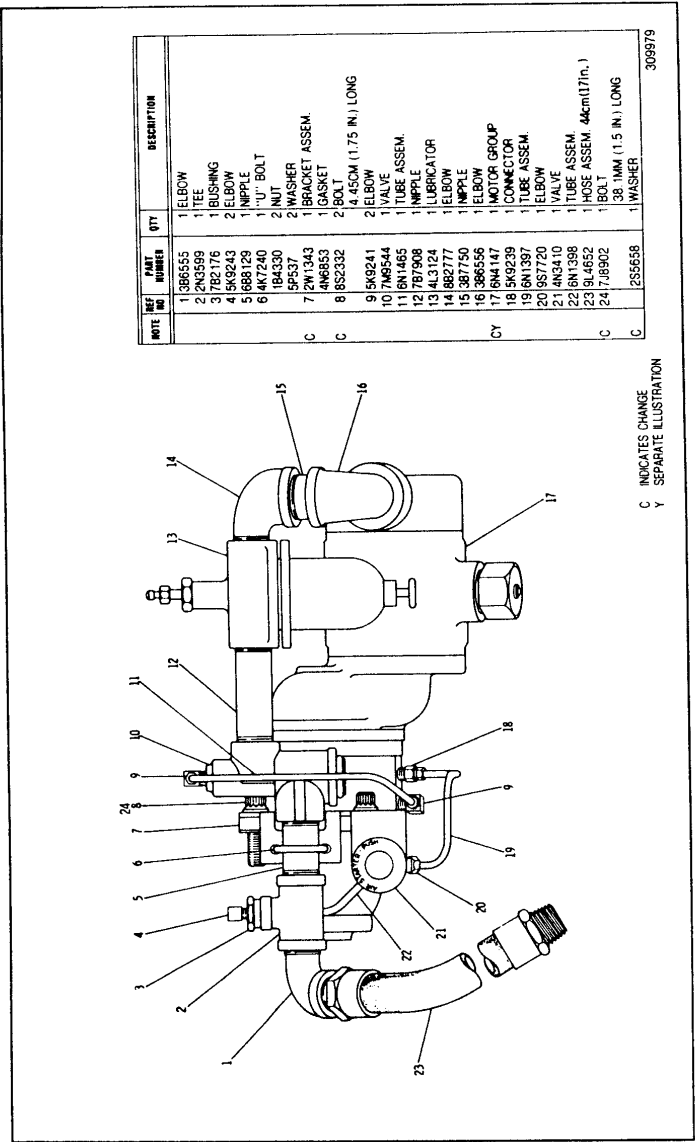


6N9131 AIR MOTOR GROUP—Type 2

Part of 4N4395 Air Starting Motor Group shown on Pages 148A & 148A-2

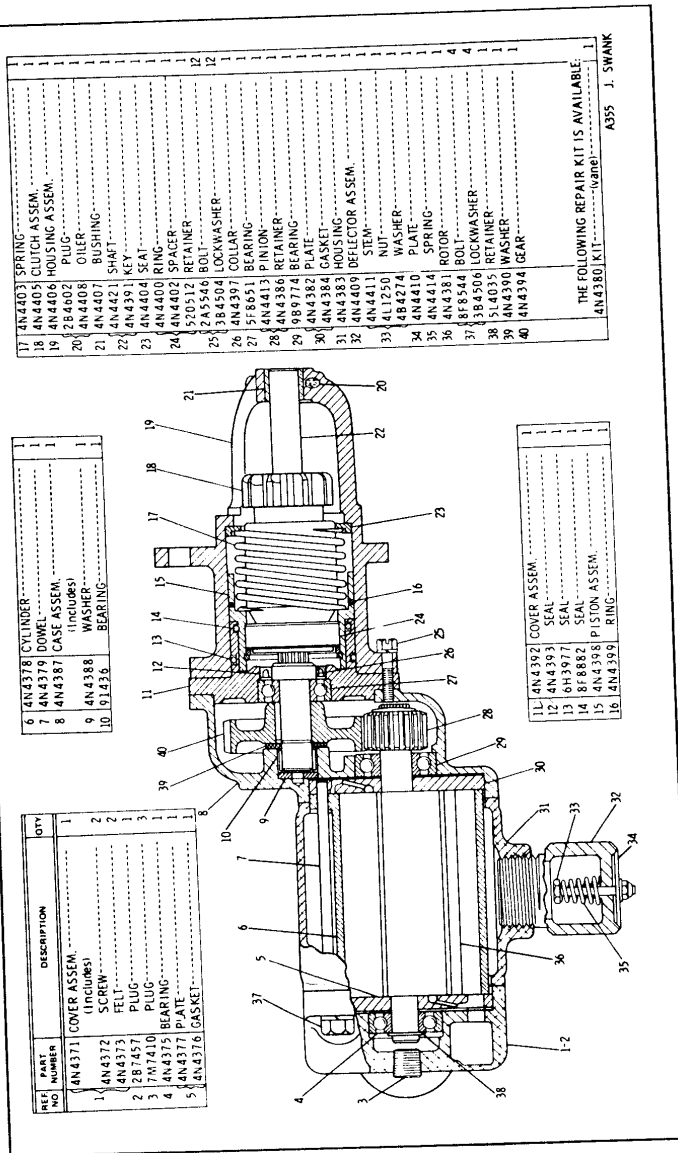
6N1402 AIR STARTING MOTOR GROUP—R.H.—Type 1
4N4368 Motor parts are shown on Page 149



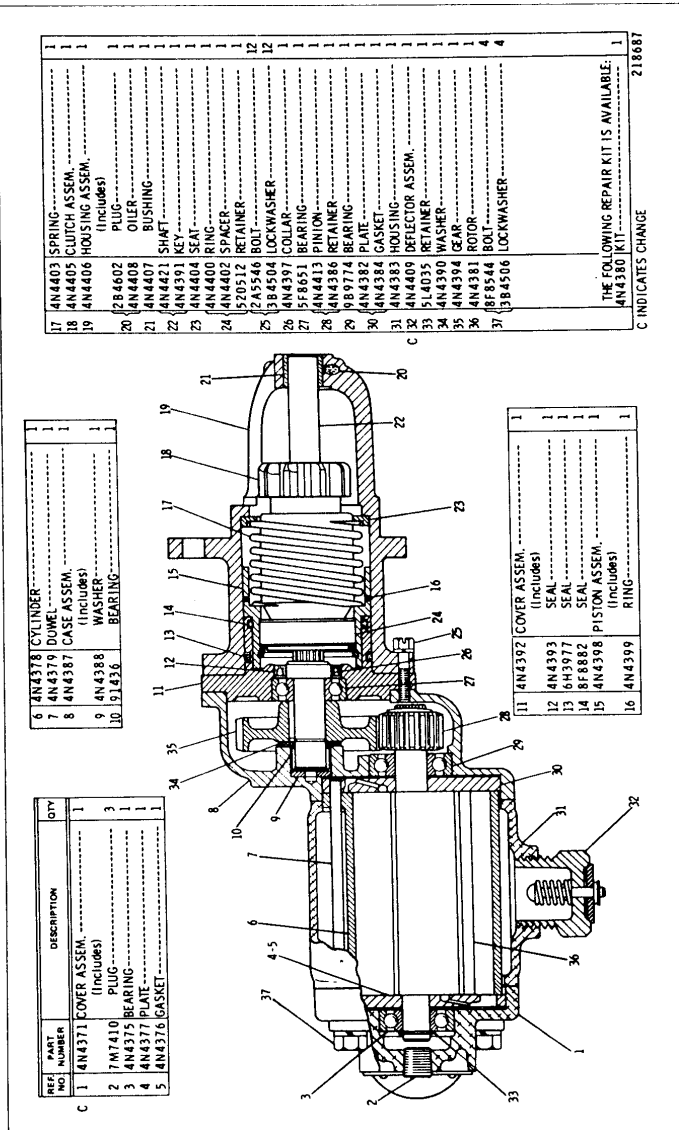


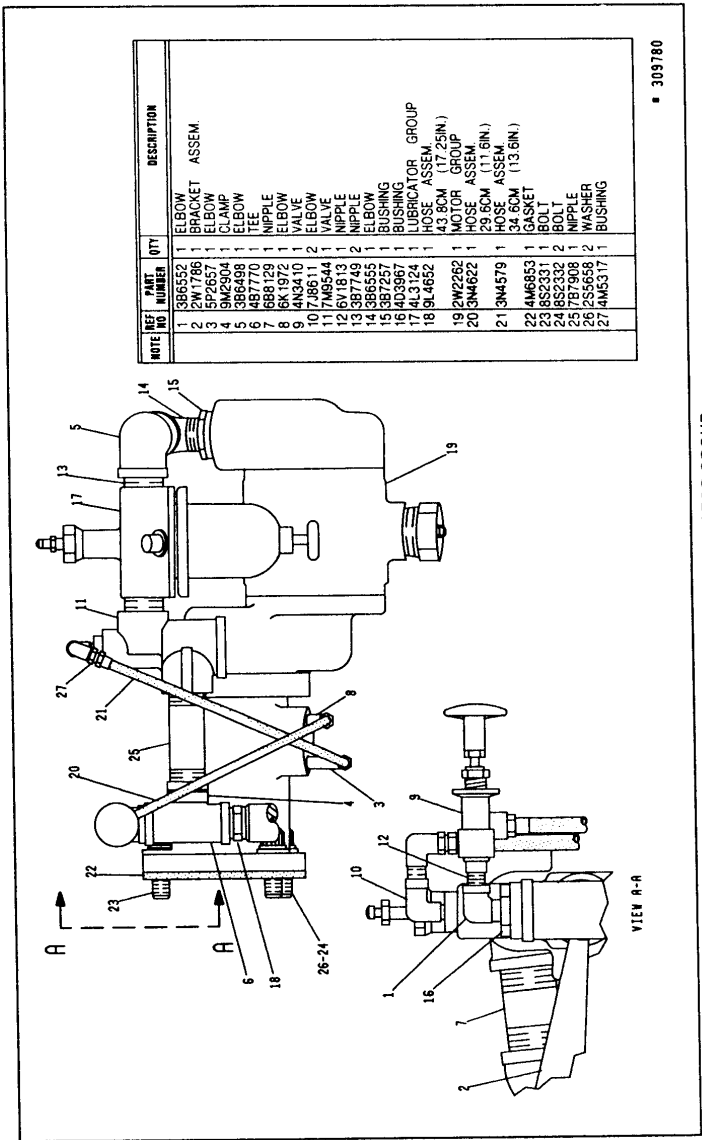
6N1402 AIR STARTING MOTOR GROUP—R.H.—Type 2
6N1417 Motor parts are shown on Page 148C-2
AN ATTACHMENT

Part of 6N1402 Air Starting Motor Group shown on Page 148C.01
AN ATTACHMENT



6N4147 AIR MOTOR GROUP—Type 2
Part of 6N1402 Air Starting Motor Group shown on Page 148C-1
AN ATTACHMENT

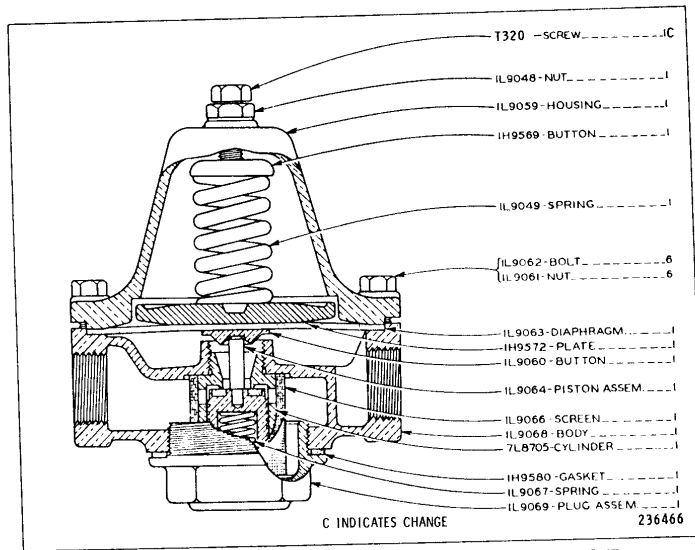




NOTE	NO.	PART NUMBER	QTY.	DESCRIPTION
	1	386552	1	ELBOW
	2	386552	1	BRACKET ASSEM.
	3	5P2657	1	ELBOW
	4	386552	1	CLAMP
	5	386552	1	ELBOW
	6	487770	1	TEE
	7	688129	1	NIPPLE
	8	6K1972	1	ELBOW
	9	4N3410	1	VALVE
	10	7J8611	2	ELBOW
	11	7M6544	1	VALVE
	12	5P2657	1	ELBOW
	13	5P2657	1	ELBOW
	14	386555	1	NIPPLE
	15	386555	1	ELBOW
	16	4D3967	1	BUSHING
	17	4L3124	1	LUBRICATOR GROUP
	18	9L4652	1	HOSE ASSEM.
	19	2W2262	1	MOTOR GROUP
	20	3M4622	1	HOSE ASSEM. (17.25 IN.)
	21	3M4579	1	HOSE ASSEM. (13.5 IN.)
	22	4M6853	1	GASKET
	23	8S2331	1	BOLT
	24	8S2332	2	BOLT
	25	7B7908	1	NIPPLE
	26	2S5658	2	WASHER
	27	4M5317	1	BUSHING

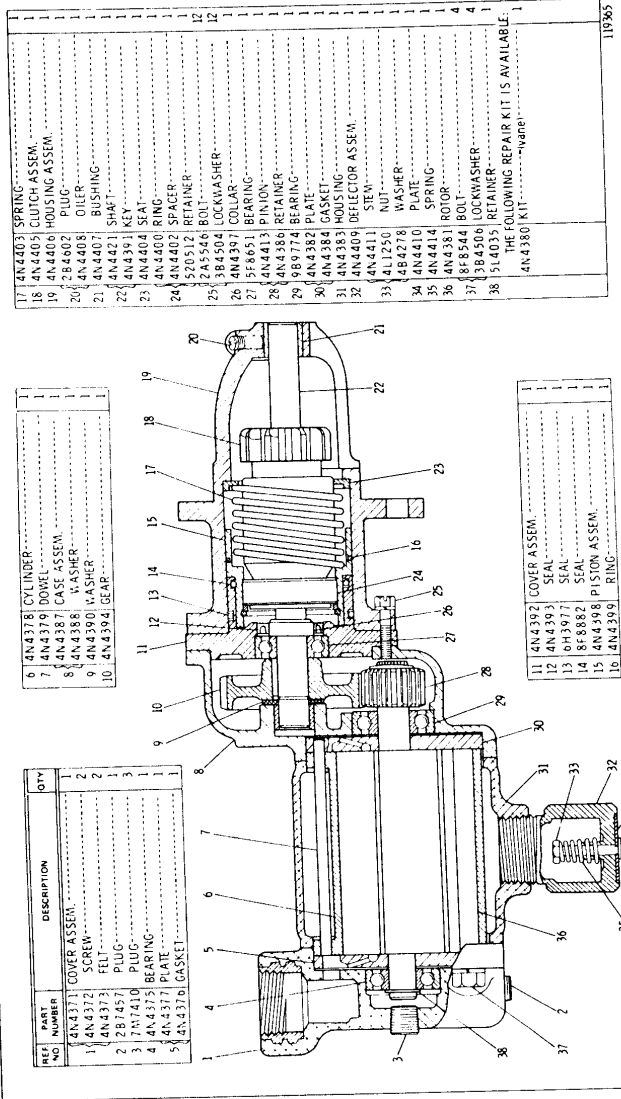
■ 305780

2W2267 AIR STARTING MOTOR GROUP
AN ATTACHMENT



1L5011 REGULATOR AND PRESSURE REDUCING VALVE GROUP
FOR USE WITH 150 AMP AIR STARTING MOTOR

4N4368 AIR MOTOR GROUP
Part of 4N4395 and 6N1402 Air Starting Motor Groups shown on Pages 148A and 148C



CONSISTS OF:		PAGE
1	3N4582 AIR SHUT-OFF GROUP.....	150B
1	3N7478 OVERSPEED CONTACTOR GROUP.....	136
1	 WIRING DIAGRAM	

3N8140 OVERSPEED AND AIR SHUT-OFF GROUP—12 Volt
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

CONSISTS OF:		PAGE
1	3N7478 OVERSPEED CONTACTOR GROUP.....	136
1	3N7985 AIR SHUT-OFF GROUP.....	151
1	 WIRING DIAGRAM	

3N8142 OVERSPEED AND AIR SHUT-OFF GROUP—12 Volt
FOR USE WITH MARINE AUXILIARY REAR MOUNTED TURBOCHARGED
AFTERCOOLED ARRANGEMENT. AN ATTACHMENT

CONSISTS OF:		PAGE
1	3N7478 OVERSPEED CONTACTOR GROUP.....	136
1	3N7549 AIR SHUT-OFF GROUP.....	153
1	 WIRING DIAGRAM	

3N8144 OVERSPEED AND AIR SHUT-OFF GROUP—24 or 32 Volt
FOR USE WITH REAR MOUNTED TURBOCHARGER. AN ATTACHMENT

CONSISTS OF:		PAGE
1	3N7478 OVERSPEED CONTACTOR GROUP.....	136
1	3N7548 AIR SHUT-OFF GROUP.....	152
1	 WIRING DIAGRAM	

3N8141 OVERSPEED AND AIR SHUT-OFF GROUP—12 Volt
FOR USE WITH REAR MOUNTED TURBOCHARGER. AN ATTACHMENT

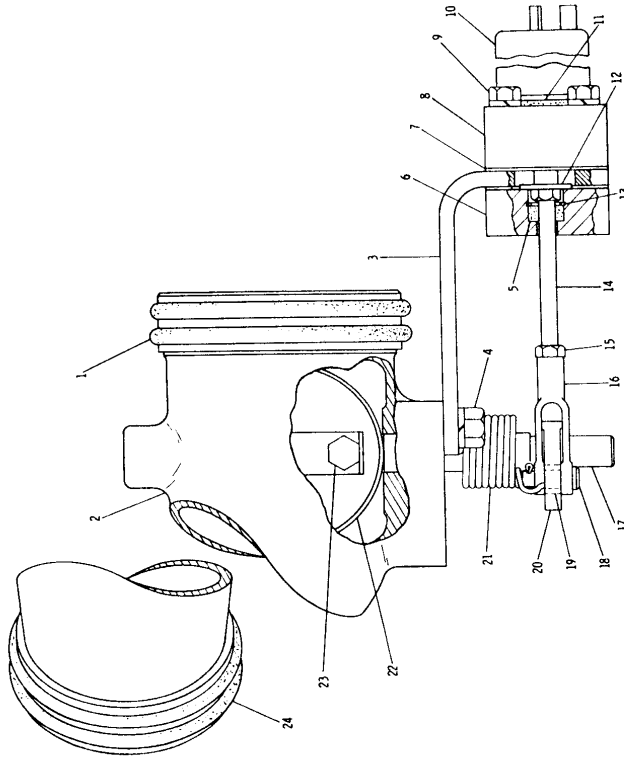
CONSISTS OF:		PAGE
1	3N4583 AIR SHUT-OFF GROUP.....	150C
1	3N7478 OVERSPEED CONTACTOR GROUP.....	136
1	 WIRING DIAGRAM	

3N8143 OVERSPEED AND AIR SHUT-OFF GROUP—24 or 32 Volt
FOR USE WITH CENTER MOUNTED TURBOCHARGER AND AUTOMATIC
START-STOP. AN ATTACHMENT

CONSISTS OF:		PAGE
1	3N7478 OVERSPEED CONTACTOR GROUP.....	136
1	3N7826 AIR SHUT-OFF GROUP.....	150D
1	 WIRING DIAGRAM	

3N8145 OVERSPEED AND AIR SHUT-OFF GROUP—24 or 32 Volt
FOR USE WITH AUXILIARY REAR MOUNTED TURBOCHARGED AFTERCOOLED
ARRANGEMENT. AN ATTACHMENT

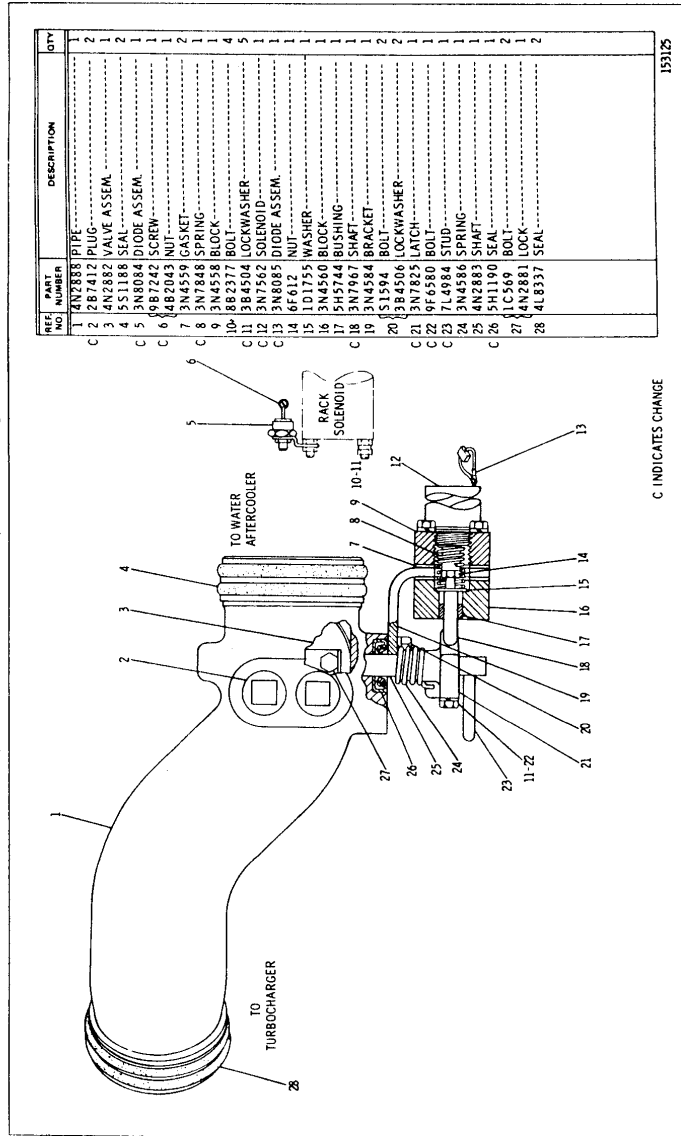
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	5S1188	SEAL	2
2	4N2883	PIPE	1
3	3N4584	BRACKET	1
4	51594	BOLT	2
5	384506	LOCKWASHER	2
6	3N4560	WASHER	1
7	3N4559	LOCK	2
8	3N4558	GASKET	1
9	482377	BOLT	4
10	384504	LOCKWASHER	4
11	4N3889	SOLENOID	1
12	1158320	SEAL	1
13	101755	WASHER	1
14	281256	RING	1
15	381519	ROD	2
16	66612	NUT	1
17	883768	FOKE	1
18	4N2883	PIPE	1
19	931303	SPACER	1
20	3N4560	WASHER	1
21	3N4587	SPRING	1
22	4N2882	VALVE ASSEM.	1
23	1C569	BOLT	2
24	4L8337	SEAL	2

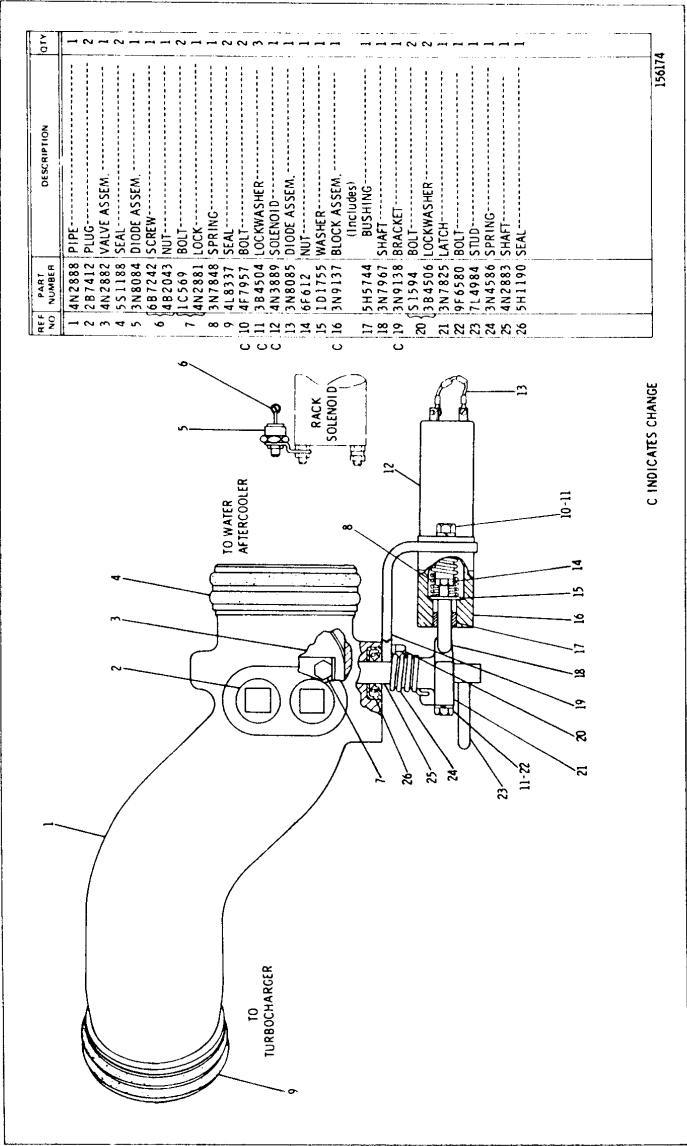


3N4582 AIR SHUT-OFF GROUP—12 Volt—Type 1
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150
FOR USE WITH CENTER MOUNTED TURBOCHARGER

119228

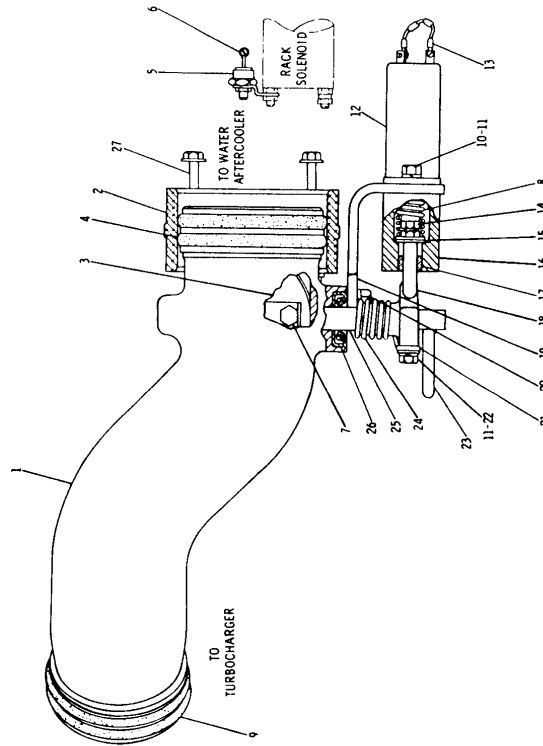
3N4582 AIR SHUT-OFF GROUP—12 Volt—Type 2
FOR USE WITH CENTER MOUNTED TURBOCHARGER
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150. AN ATTACHMENT



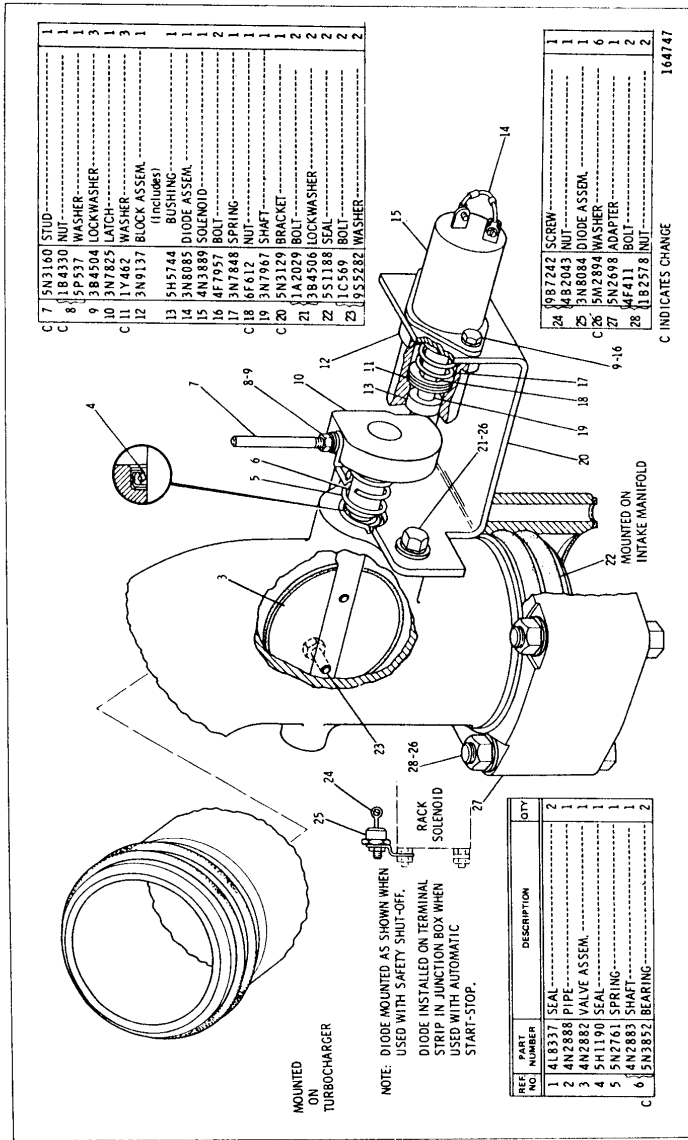


3N4582 AIR SHUT-OFF GROUP—12 Volt—Type 3
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

3N4582 AIR SHUT-OFF GROUP—12 Volt—Type 4
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

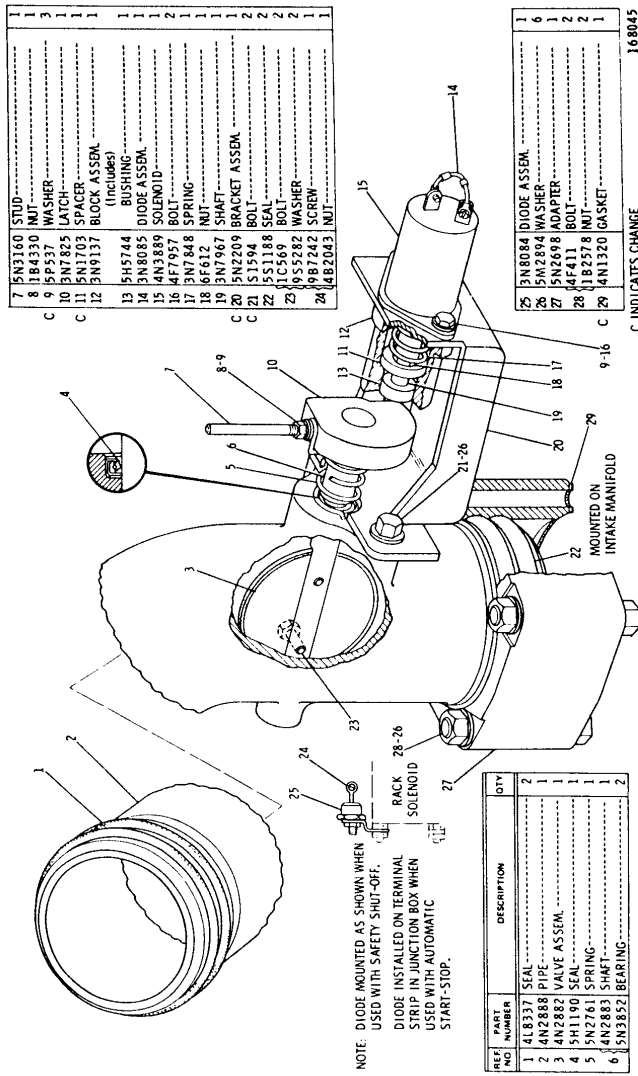


QTY	REF. NUMBER	PART NUMBER	DESCRIPTION	QTY
1	1	4N2888	PIPE	1
1	2	3N2698	ADAPTER	1
1	3	5N2888	WASHER ASSEM.	1
1	4	5N2888	SEAL	1
1	5	3N8084	DIODE ASSEM.	1
1	6	3N8723	SCREW	1
1	7	4B2043	NUT	1
1	8	1C569	BOLT	1
1	9	5N5283	WASHER	1
1	10	3N7848	SPRING	1
1	11	4L8337	SEAL	1
1	12	4F7957	BOLT	1
1	13	3B4504	LOCKWASHER	1
1	14	4N3889	SOLENOID	1
1	15	3N8085	DIODE ASSEM.	1
1	16	4F1462	NUT	1
1	17	1Y462	WASHER	1
1	18	3N9137	BLOCK ASSEM.	1
1	19	5H4744	(Includes) BU-SHING	1
1	20	3N7967	ADAPTER	1
1	21	3N138	BRACKET	1
1	22	1A2029	BOLT	1
1	23	3B4506	LOCKWASHER	1
1	24	354	WASHER	1
1	25	3N7825	LATCH	1
1	26	9F6580	BOLT	1
1	27	5P537	WASHER	1
1	28	7L4984	STUD	1
1	29	5N2761	SPRING	1
1	30	5N2883	SHAFT	1
1	31	5H1190	SEAL	1
1	32	4F411	BOLT	1
1	33	1B2578	NUT	1
1	34	5M2894	WASHER	1
1	35			15801.3



3N4582 AIR SHUT-OFF GROUP—12 Volt—Type 5
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

3N4582 AIR SHUT-OFF GROUP—12 Volt—Type 6
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150
FOR USE WITH CENTER MOUNTED TURBOCHARGER, AN ATTACHMENT



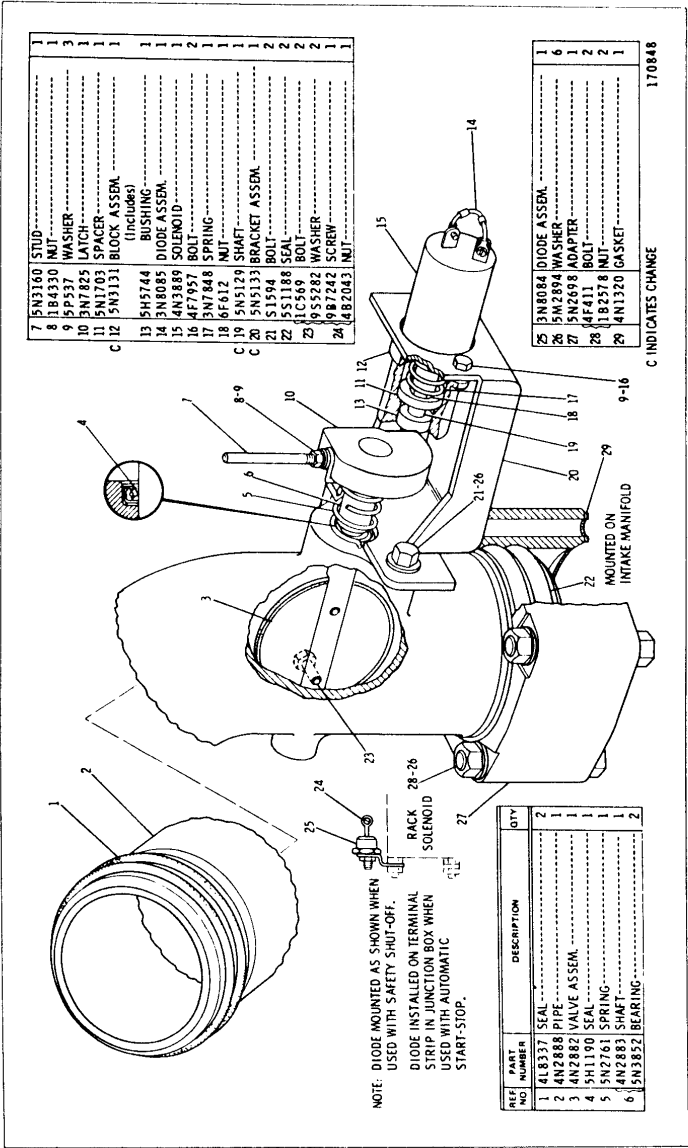
1	3	EN3160	STUD	1
2	8	1N3160	NUT	1
3	9	1B4330	WASHER	3
4	10	1N7825	LATCH	1
5	11	1N1703	SPACER	1
6	12	EN1937	BLOCK ASSEM. (includes)	1
7	13	1N5744	BUSHING	1
8	14	1N8085	DIODE ASSEM.	1
9	15	EN3889	SOLENOID	1
10	16	1N7957	BOLT	2
11	17	1N7848	SPRING	1
12	18	1N6F612	NUT	1
13	19	1N7967	SHAFT	1
14	20	EN2209	BRACKET ASSEM.	1
15	21	1N1594	BOLT	2
16	22	1N1188	SEAL	2
17	23	1N5282	WASHER	2
18	24	1N87242	SCREW	1

PART NO.	PART NUMBER	DESCRIPTION	QTY
1	4L8337	SEAL	2
2	4N2388	PIPE	1
3	4N2883	VALVE ASSEM.	1
4	1N1188	SEAL	1
5	1N2761	SPRING	1
6	4N2883	SHAFT	1
7	1N3852	BEARING	2

25	1N8084	DIODE ASSEM.	1
26	1N2894	WASHER	6
27	1N2698	ADAPTER	1
28	1N4411	BOLT	2
29	1N2578	NUT	2
30	1N1320	GASKET	1

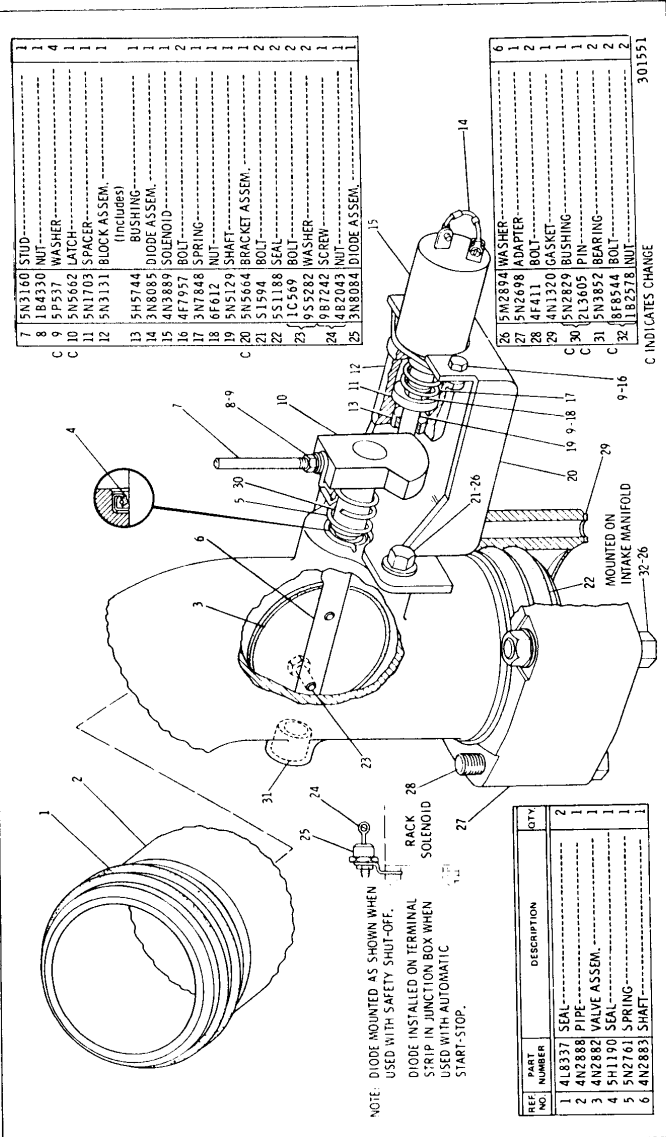
C INDICATES CHANGE

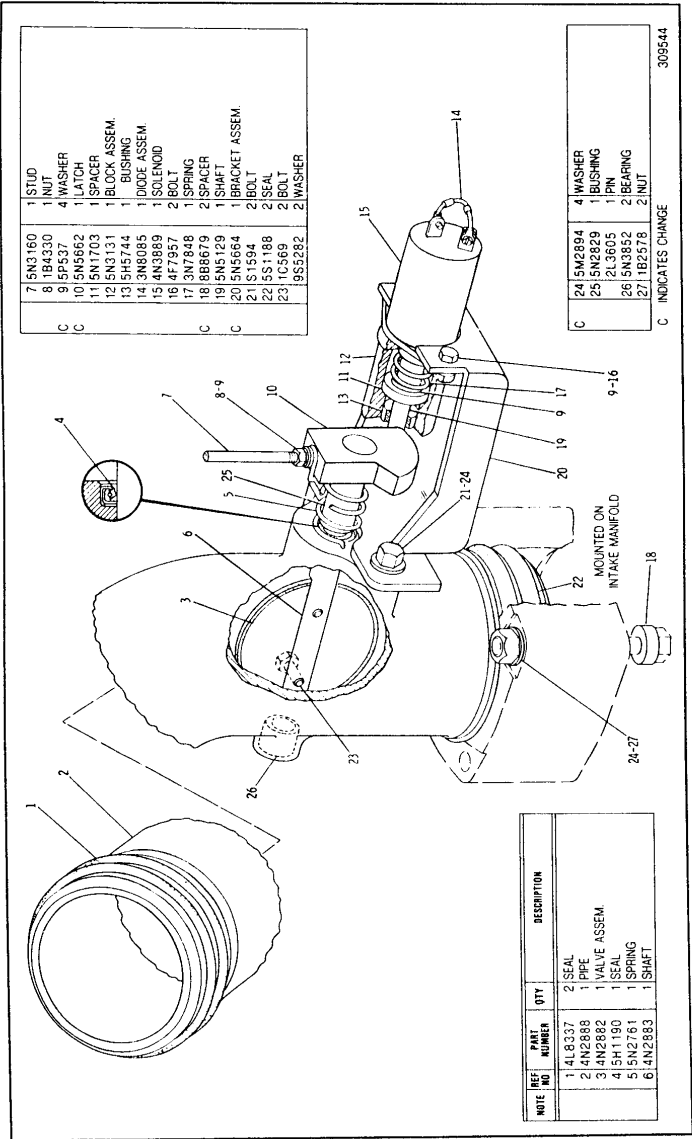
168045



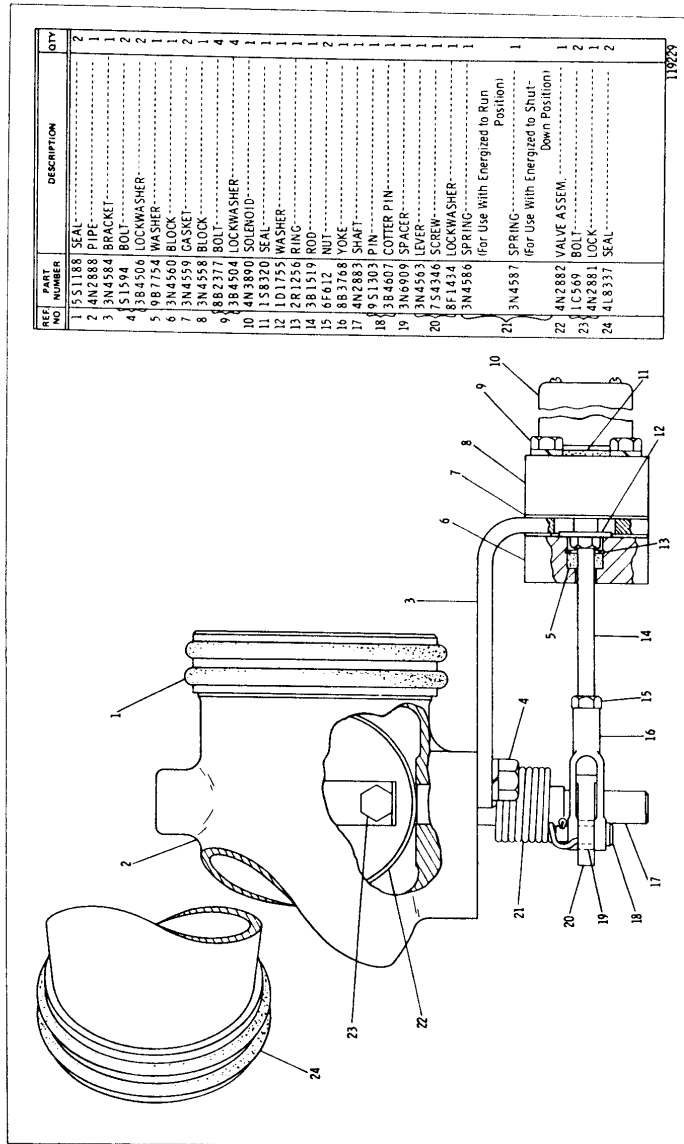
3N4582 AIR SHUT-OFF GROUP—12 Volt—Type 7
FOR USE WITH CENTER MOUNTED TURBOCHARGER
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150
AN ATTACHMENT

3N4582 AIR SHUT-OFF GROUP—12 Volt—Type B
FOR USE WITH CENTER MOUNTED TURBOCHARGER
Part of 3N8140 Overspeed and Air Shut-Off Group listed on Page 150
AN ATTACHMENT



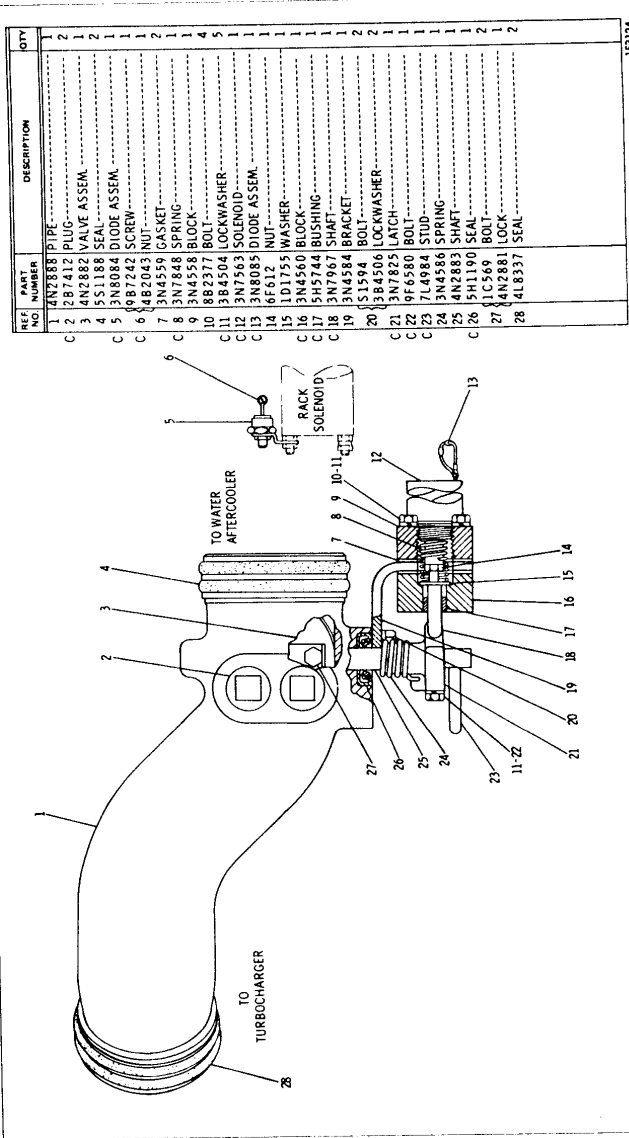


3N4582 AIR SHUT-OFF GROUP—24 Volt—Type 9
Part of 3N8140 Overspeed and Air Shut-Off, FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT



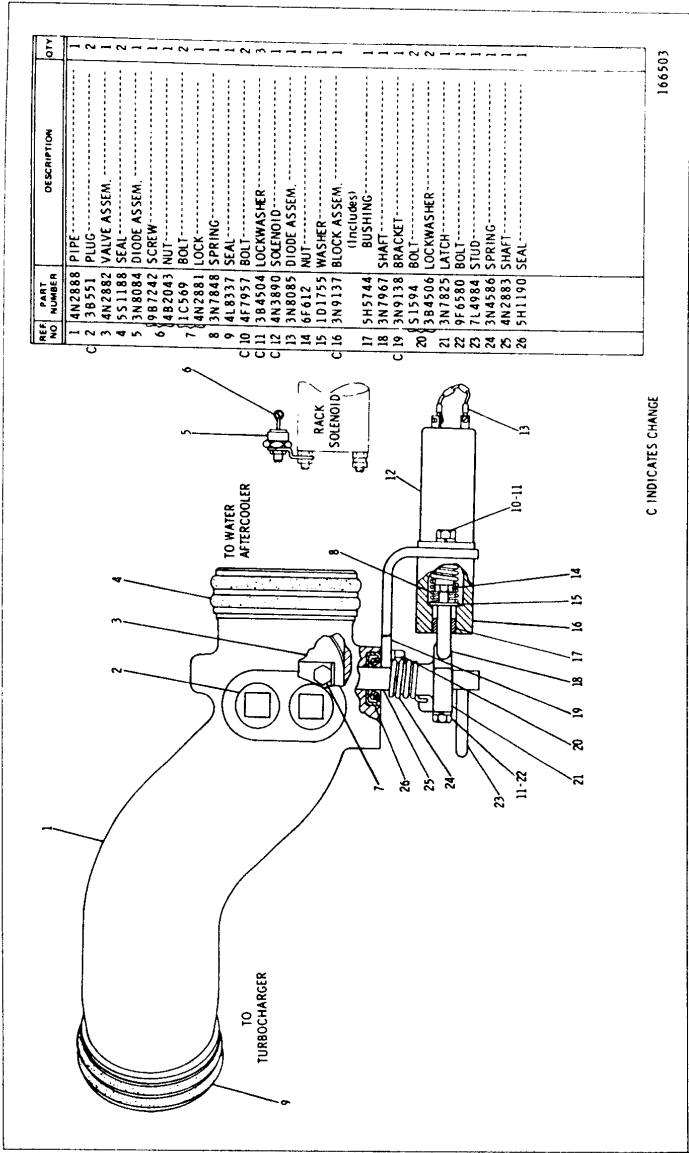
REF NO	PART NUMBER	DESCRIPTION	QTY
1	51188	SEAL	1
2	4N288	PIPE	1
3	3N4584	BRACKET	1
4	51594	BOLT	2
5	384506	LOCKWASHER	2
6	987754	WASHER	2
7	3N4560	BLOCK	2
8	3N4559	GASKET	2
9	384558	BLOCK	4
10	384577	BOLT	4
11	384504	LOCKWASHER	4
12	4N3890	SOLENOID	1
13	158320	SEAL	1
14	1D1755	WASHER	1
15	2R1256	RING	1
16	381519	ROD	1
17	6F612	NUT	2
18	883768	YOKE	1
19	4N2883	SHAFT	1
20	951303	PIN	1
21	384607	COTTER PIN	1
22	3N6909	SPACER	1
23	3N4563	LEVER	1
24	754346	SCREW	1
25	8F1434	LOCKWASHER	1
26	3N4586	SPRING	1
27	3N4587	SPRING	1
28	3N4587	SPRING	1
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221	3N4587	SPRING	1
222	3N4587	SPRING	1
223	3N4587	SPRING	1
224	3N4587	SPRING	1
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320	3N4587	SPRING	1
321	3N4587	SPRING	1
322	3N4587	SPRING	1

3N4583 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 2
FOR USE WITH CENTER MOUNTED TURBOCHARGER
Part of 3N8143 Overspeed and Air Shut-Off Group listed on Page 150A
AN ATTACHMENT



C INDICATES CHANGE

133124

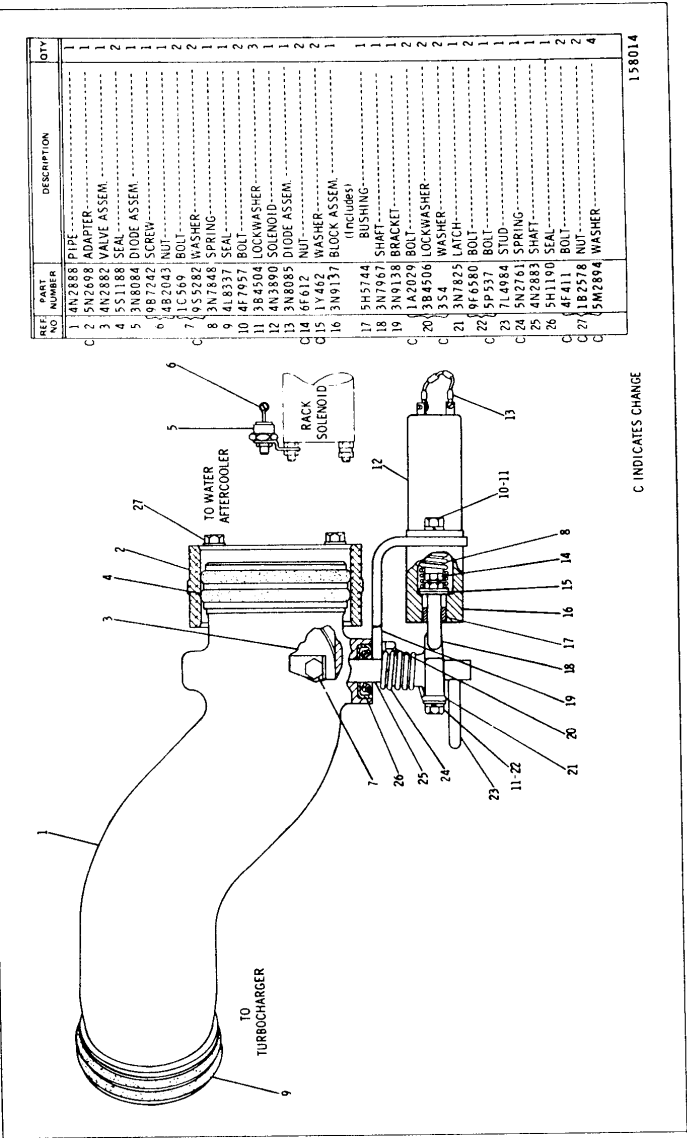


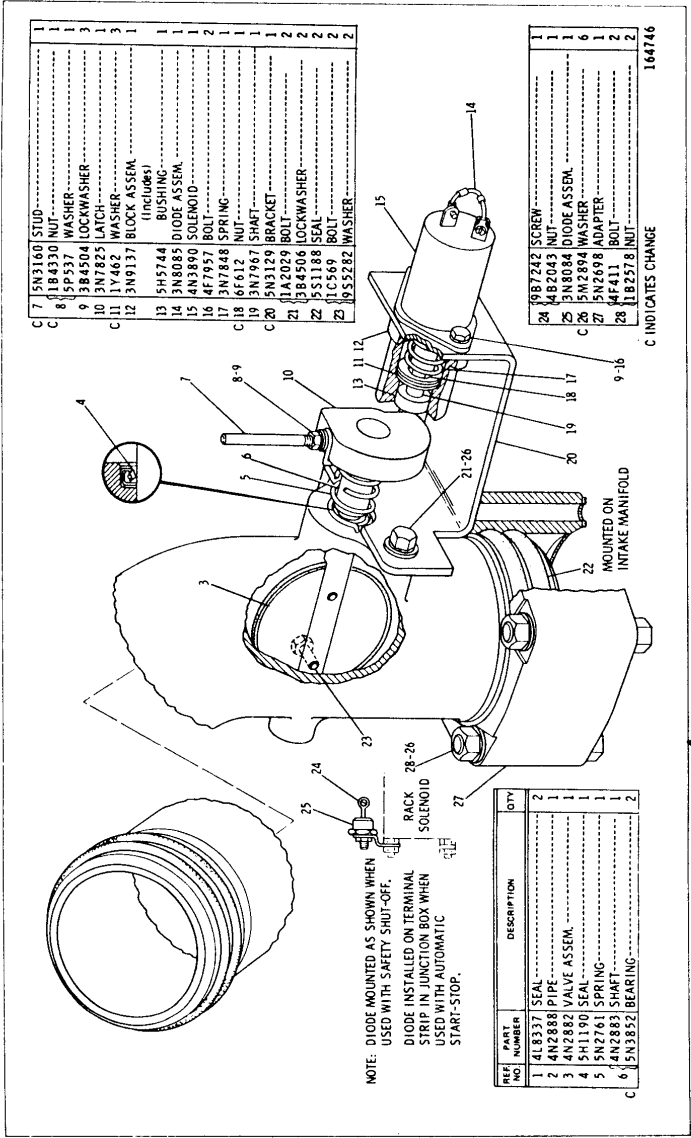
C INDICATES CHANGE

166503

3N4583 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 3
Part of 3N8143 Overspeed and Air Shut-Off Group listed on Page 150A
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

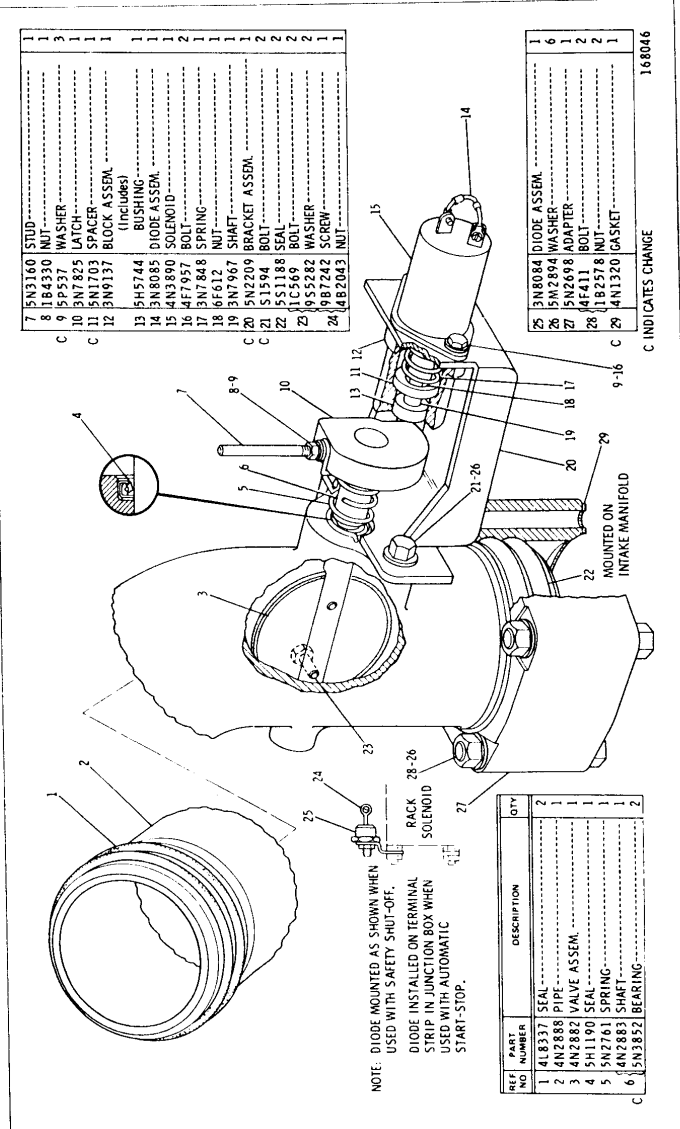
3N4583 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 4
Part of 3N8143 Overspeed and Air Shut-Off Group listed on Page 150A
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

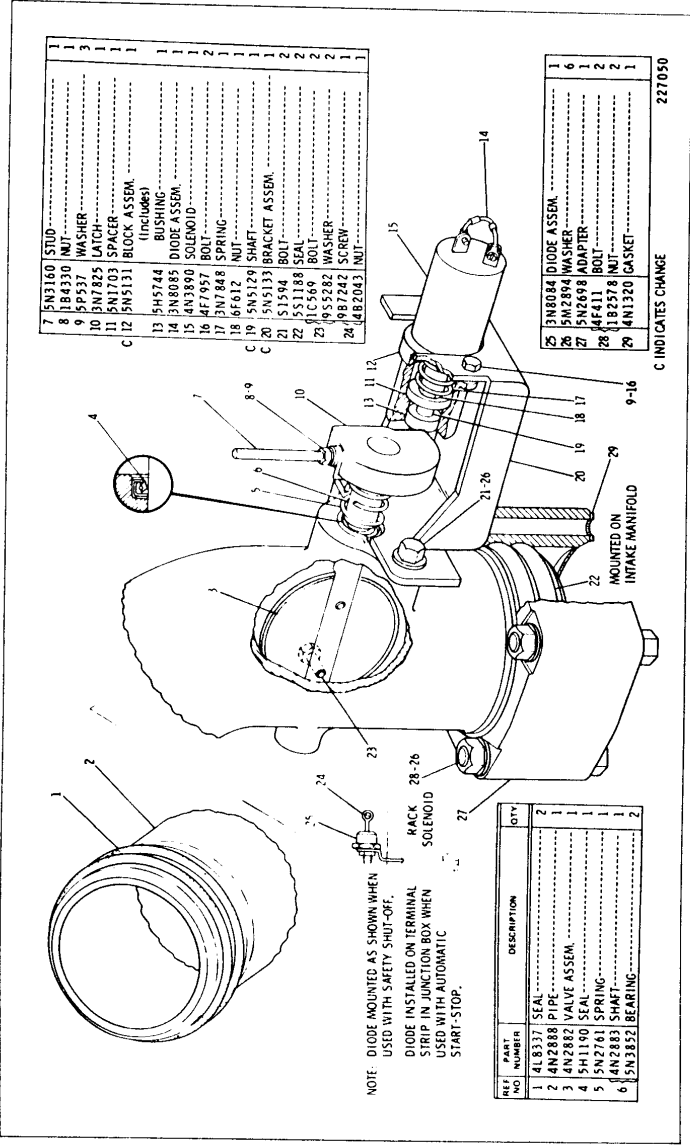




3N4583 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 5
Part of 3N8143 Overspeed and Air Shut-Off Group listed on Page 150A
FOR USE WITH CENTER MOUNTED TURBOCHARGER, AN ATTACHMENT

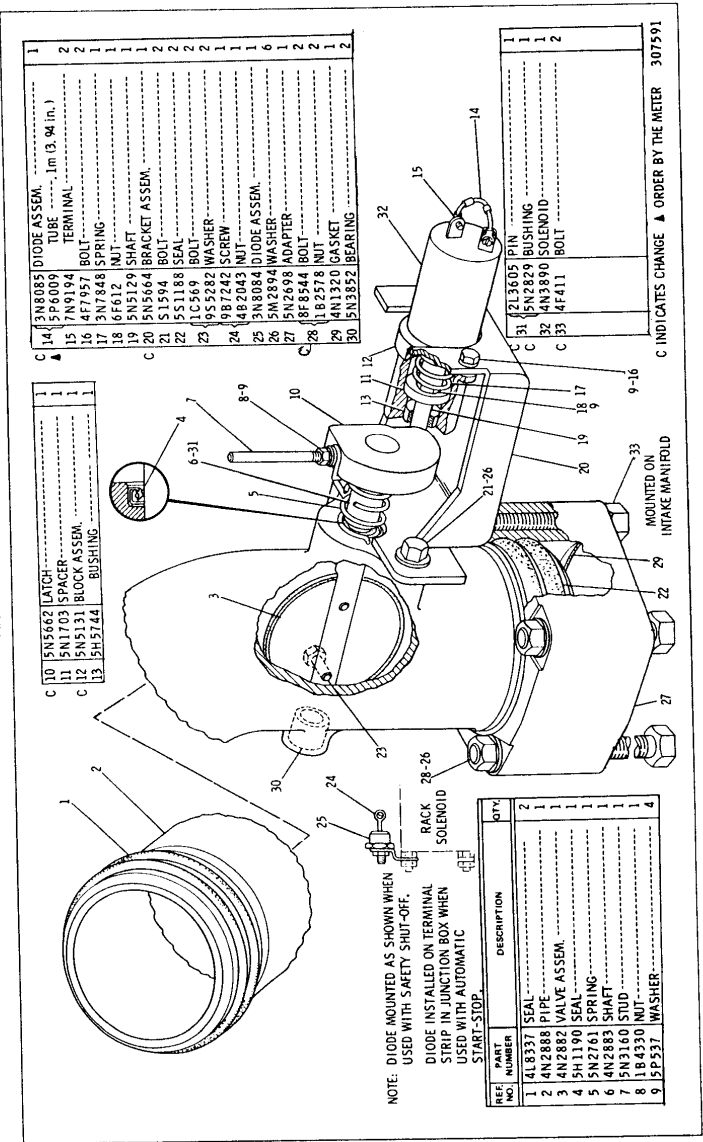
3N4583 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 6
 Part of 3N8143 Overspeed and Air Shut-Off Group listed on Page 150A
 FOR USE WITH CENTER MOUNTED TURBOCHARGER, AN ATTACHMENT

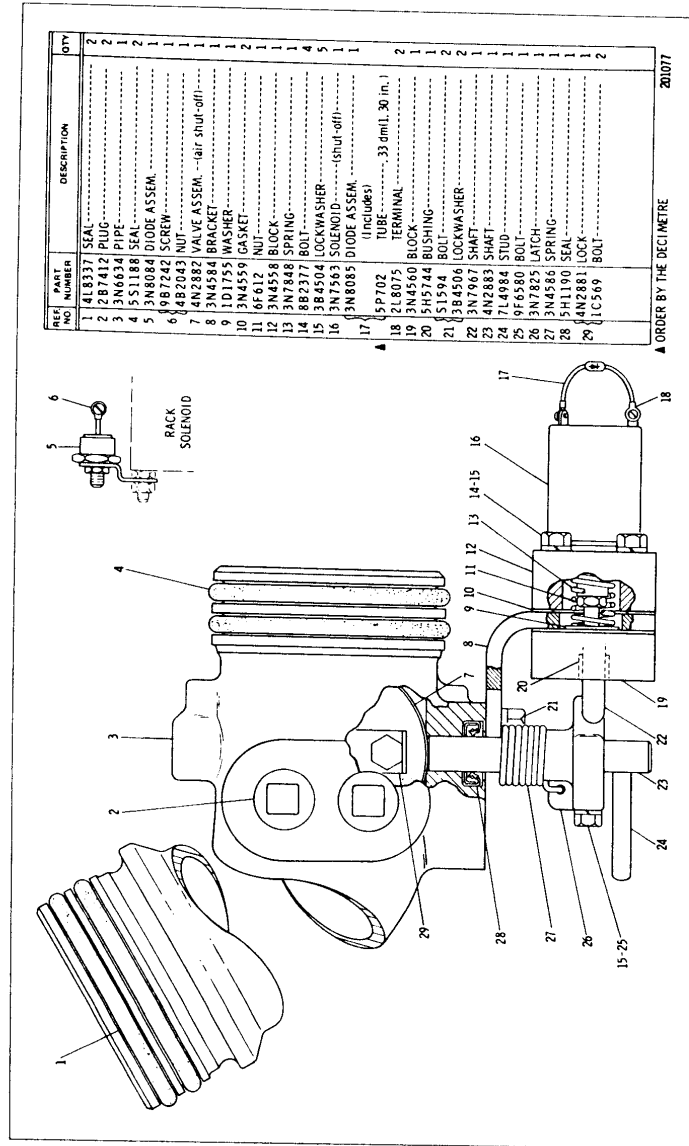




3N4583 AIR SHUT-OFF GROUP—24 Volt—Type 7
FOR USE WITH CENTER MOUNTED TURBOCHARGER
Part of 3N8143 Overspeed and Air Shut-Off Group listed on Page 150A
AN ATTACHMENT

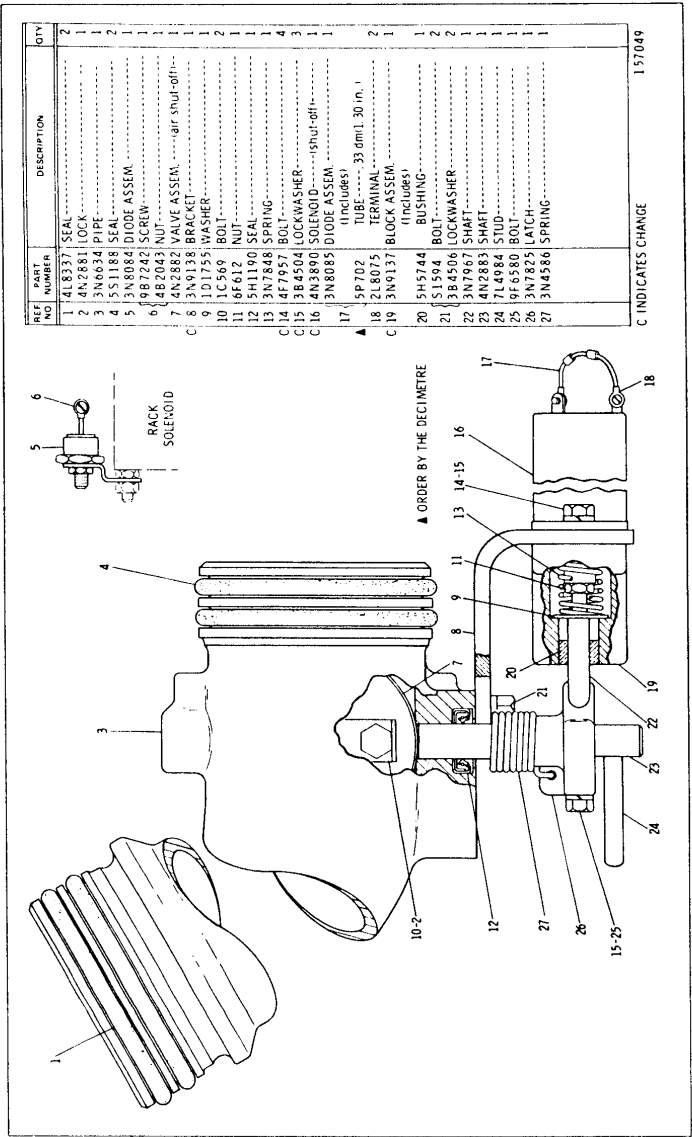
3N4583 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 8
FOR USE WITH CENTER MOUNTED TURBOCHARGER
Part of 3N8143 Overspeed and Air Shut-Off Group listed on Page 150A
AN ATTACHMENT

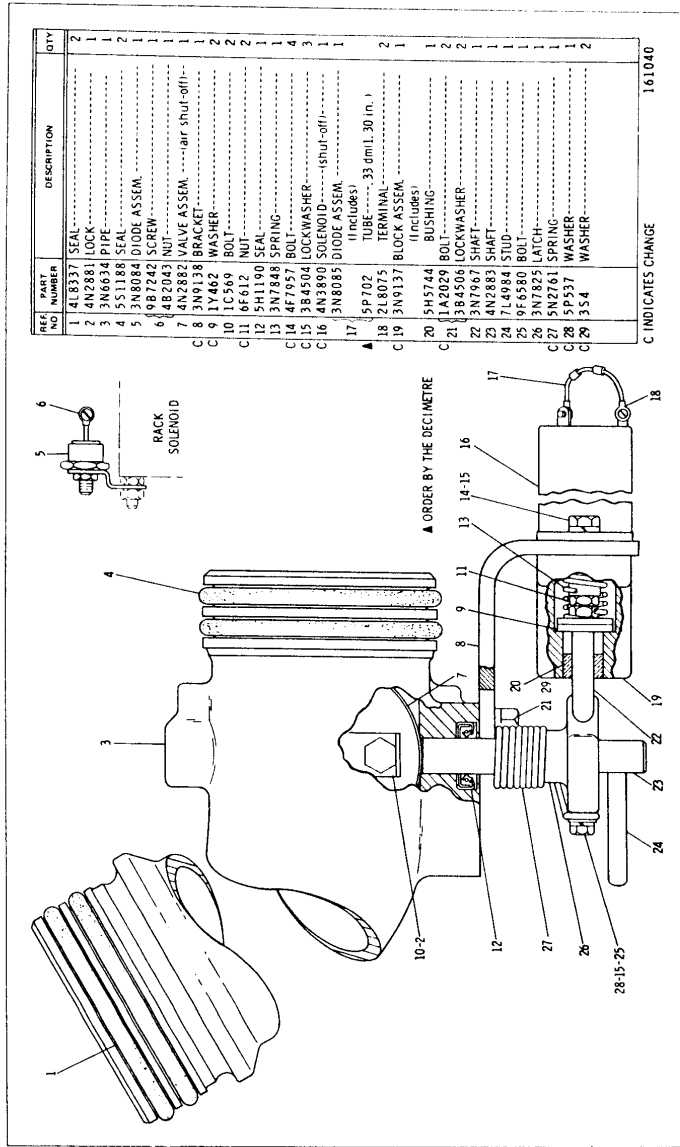




3N7826 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 1
 Part of 3N8145 Overspeed and Air Shut-Off Group listed on Page 150A
 FOR USE WITH REAR MOUNTED TURBOCHARGER
 AN ATTACHMENT

3N7826 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 2
Part of 3N8145 Overspeed and Air Shut-Off Group listed on Page 150A
FOR USE WITH REAR MOUNTED TURBOCHARGER
AN ATTACHMENT





REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	418337	SEAL	2
2	4N2881	LOCK	1
3	3N6634	PIPE	1
4	5S1188	SEAL	2
5	3N8084	DIODE ASSEM.	1
6	6B7242	SCREW	1
7	4N2882	VALVE ASSEM. ---air shut-off---	1
8	3N9138	BRACKET	1
9	1Y462	WASHER	2
10	1C569	BOLT	2
11	6F612	NUT	2
12	5H1190	SEAL	1
13	3N7848	SPRING	1
14	4F7957	BOLT	4
15	3B4504	LOCKWASHER	3
16	4N3890	SOLENOID ---shut-off---	1
17	3N8085	DIODE ASSEM.	1
18	5P702	TUBE ---.33 dmiL 30 in.---	1
19	2L8075	TERMINAL	2
20	3N157	LOCK ASSEM.	1
21	5H5744	BUSHING	1
22	1A2029	BOLT	2
23	3B4506	LOCKWASHER	2
24	3N7967	SHAFT	1
25	4N2883	SHUT	1
26	7L4984	STUD	1
27	9F6580	BOLT	1
28	3N7825	LATCH	1
29	5N2761	SPRING	1
30	5P537	WASHER	1
31	3S4	WASHER	2

C INDICATES CHANGE

161040

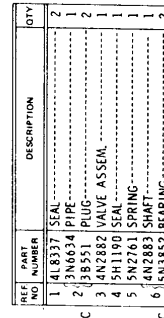
3N7826 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 3

Replaced by 5N2060 shown on Page 151D

FOR USE WITH REAR MOUNTED TURBOCHARGER

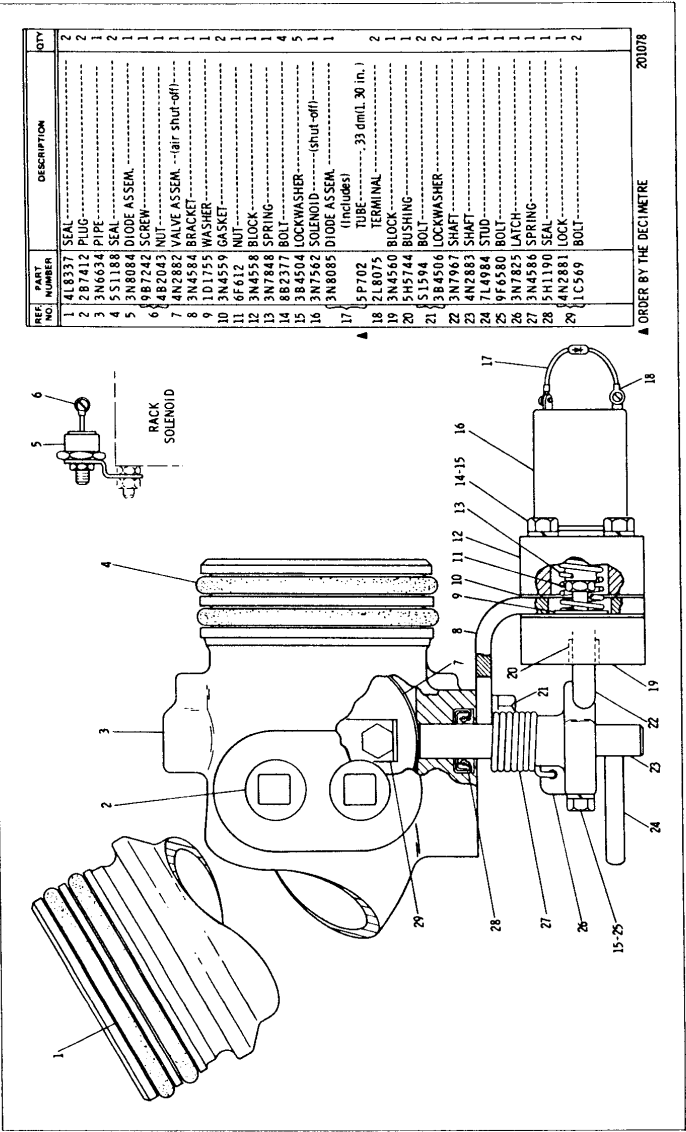
Part of 3N8145 Overspeed and Air Shut-Off Group listed on Page 150A

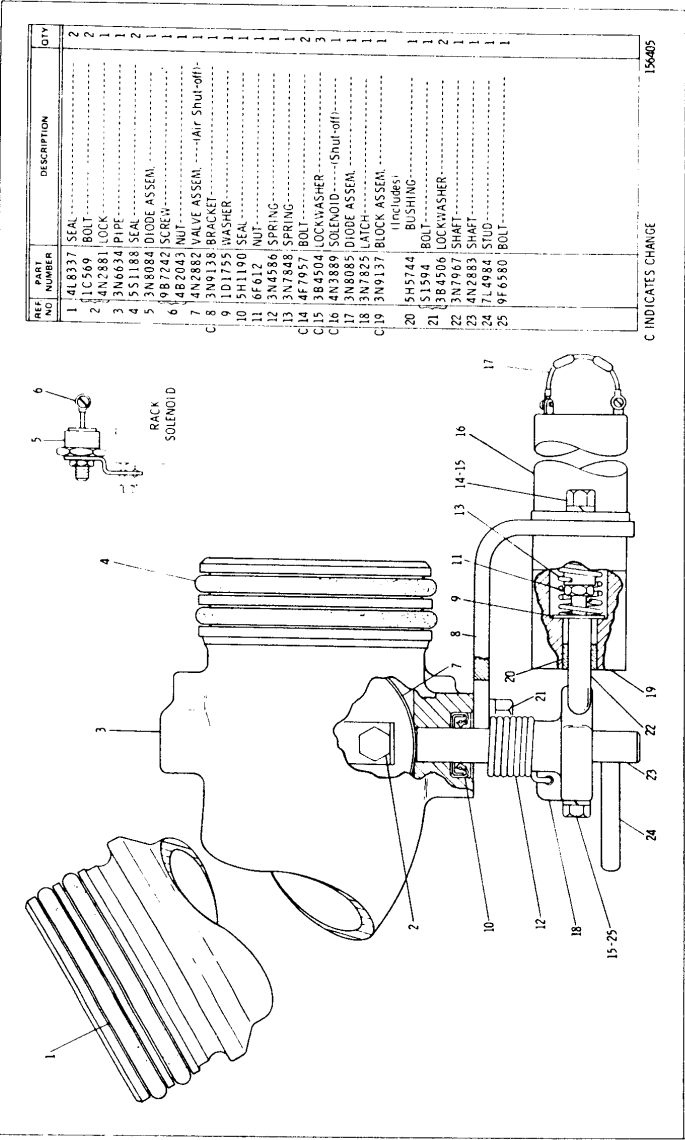
1	7	5X3160	STUD	
2	8	1B4330	WASHER	
3	9	5B4330	WASHER	
4	10	3A7325	WASHER	
5	11	3A7325	WASHER	
6	12	5N1705	SPACER	
7	13	5N1705	SPACER	
8	14	3A4137	LOCK ASSEM.	
9	15	3A4137	LOCK ASSEM.	
10	16	5A5244	BUSHING	
11	17	3A4085	DIODE ASS'Y	
12	18	3A4085	DIODE ASS'Y	
13	19	3X3890	SOLENOID	(stud-off)
14	20	4F71957	BOLT	
15	21	4F71957	BOLT	
16	22	3A7348	SPRING	
17	23	6F6167	NUT	
18	24	3A71967	SHAFT	
19	25	3A71967	SHAFT	
20	26	5X3129	BRACKET	
21	27	1A2079	BOLT	-2, 86 cml, 125 in. 1 long
22	28	51584	BOLT	-2, 86 cml, 125 in. 1 long
23	29	5A2804	WASHER	-2, 54 cml, 125 in. 1 long
24	30	551188	SPAN	



23	1C569	BOLT-----	2
24	WS5282	WASHER-----	2
25	987242	SCREW-----	1
26	482043	NUT-----	1
27	3N8084	DIODE ASSEM.	1
28	4N4159	GASKET-----	1
C INDICATES CHANGE			168097

3N7965 AIR SHUT-OFF GROUP—12 VOLT
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8142 Overspeed and Air Shut-Off Group listed on Page 150
AN ATTACHMENT





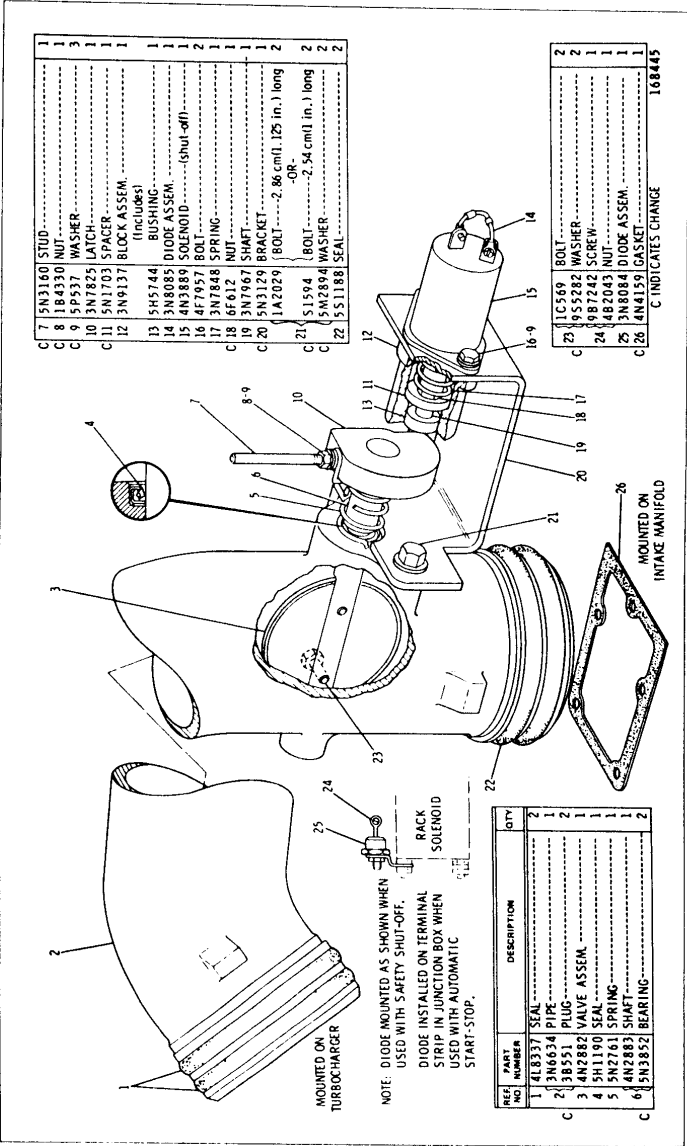
3N7985 AIR SHUT-OFF GROUP—12 Volt—Type 2
Replaced by 5N2060 & 5N2072 shown on Pages 151D & 151E
FOR USE WITH REAR MOUNTED TURBOCHARGER

Replaced by 5N2060 & 5N2072 shown on Pages 151D & 151E
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8142 Overspeed and Air Shut-Off Group listed on Page 150
AN ATTACHMENT

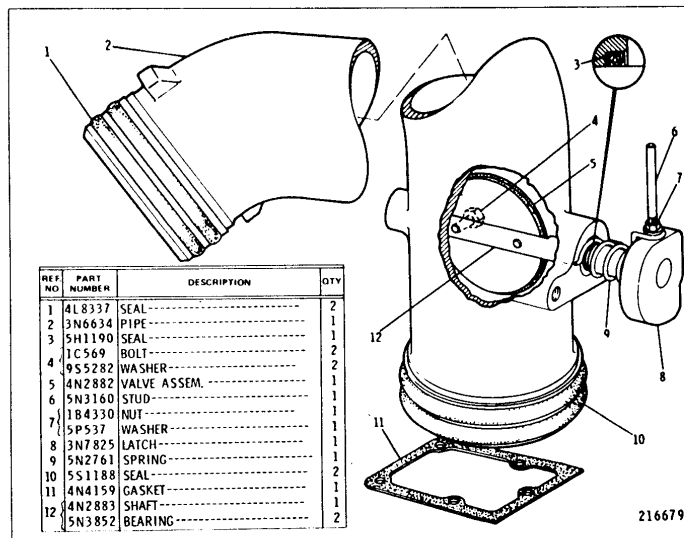
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	4L8337	SEAL	2
2	1C569	BOLT	2
3	4N2881	LOCK	1
4	3N6634	PIPE	1
5	5S1188	SEAL	2
6	3N8084	DIODE ASSEM.	1
7	9B7242	SCREW	1
8	4B2043	NUT	1
9	4N2882	VALVE ASSEM. ---AIR Shut-off---	1
10	3N9138	BRACKET	1
11	1V462	WASHER	2
12	5H1190	SEAL	1
13	6F612	NUT	1
14	5N2761	SPRING	1
15	3N7848	SPRING	1
16	4F7957	BOLT	2
17	3B4504	LOCKWASHER	2
18	4N3889	SOLENOID ---Shut-off---	1
19	3N8085	DIODE ASSEM.	1
20	3N8152	PACK	1
21	3N9137	LOCK ASSEM. (includes)	1
22	5H5744	BUSHING	1
23	1A2029	BOLT	2
24	3B4506	LOCKWASHER	2
25	3N7967	SHAFT	1
26	4N2883	SHAFT	1
27	7L4984	STUD	1
28	9F6580	BOLT	1
29	5P537	WASHER	1
30	3S4	WASHER	2

C INDICATES CHANGE

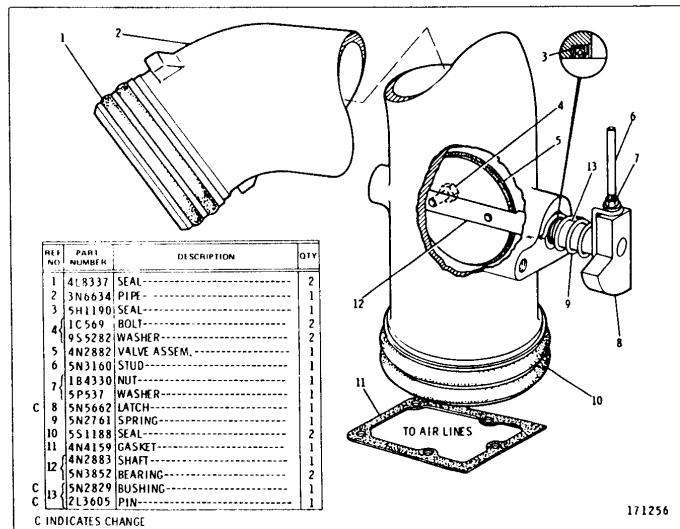
211413



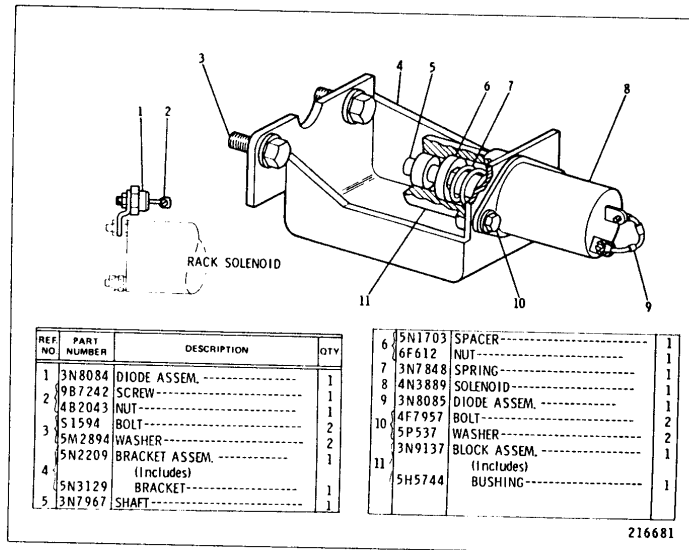
3N7985 AIR SHUT-OFF GROUP—12 Volt—Type 4
Replaced by 5N2080 and 5N2072 shown on Pages 151D, 151E & 151F
FOR USE WITH REAR MOUNTED TURBOCHARGER



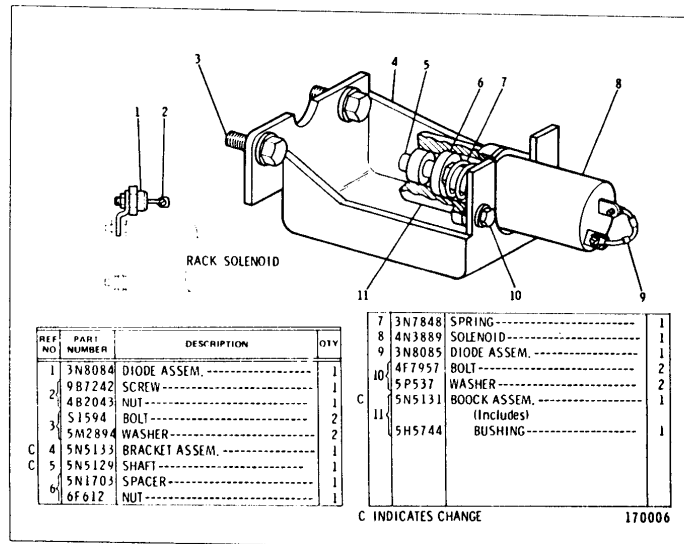
5N2060 AIR SHUT-OFF GROUP—Type 1
AN ATTACHMENT



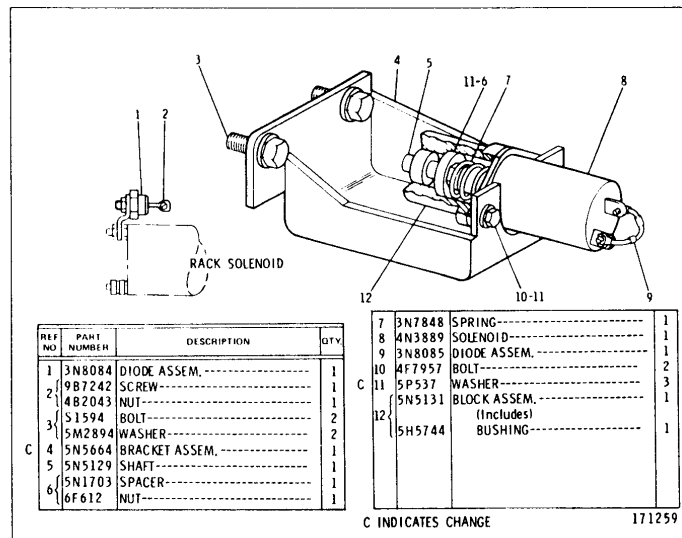
5N2060 AIR SHUT-OFF GROUP—Type 2
AN ATTACHMENT



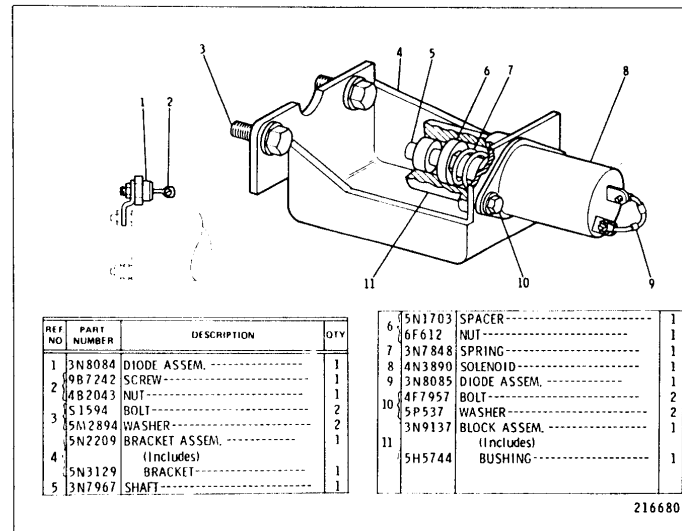
5N2072 SHUT-OFF SOLENOID GROUP—12 Volt—Type 1
FOR USE WITH 5N2060 AIR SHUT-OFF GROUP SHOWN ON PAGE 151D
AN ATTACHMENT



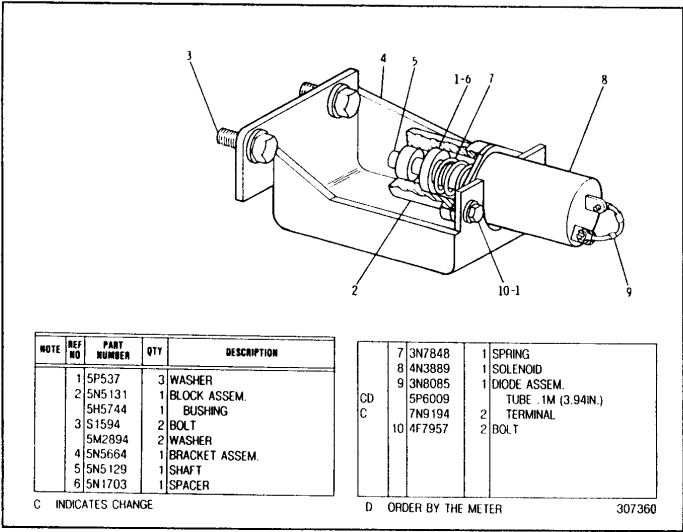
5N2072 SHUT-OFF SOLENOID GROUP—12 Volt—Type 2
FOR USE WITH 5N2060 SHUT-OFF GROUP SHOWN ON PAGE 151D
AN ATTACHMENT



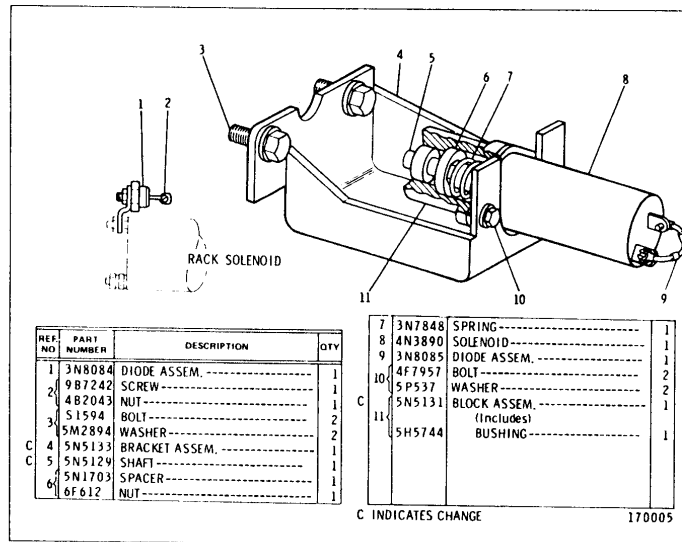
5N2072 SHUT-OFF SOLENOID GROUP—12 Volt—Type 3
FOR USE WITH AIR SHUT-OFF GROUP SHOWN ON PAGE 151D
AN ATTACHMENT



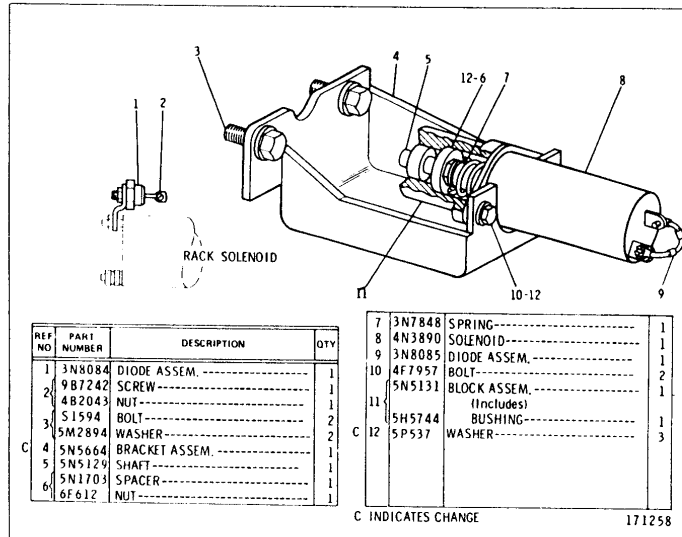
5N2062 SHUT-OFF SOLENOID GROUP—24 or 32 Volt—Type 1
FOR USE WITH 5N2060 Shut-Off Group shown on Page 151D
AN ATTACHMENT



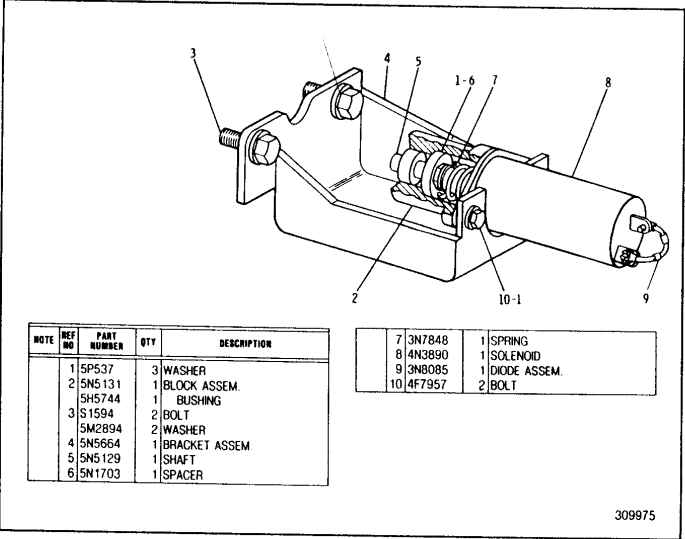
5N2072 SHUT-OFF SOLENOID GROUP—24 or 32 Volt—Type 4
FOR USE WITH 5N2060 AIR SHUT-OFF GROUP SHOWN ON PAGE 151D
AN ATTACHMENT



5N2062 SHUT-OFF SOLENOID GROUP—24 or 32 Volt—Type 2
FOR USE WITH 5N2060 AIR SHUT-OFF GROUP SHOWN ON PAGE 151D
AN ATTACHMENT

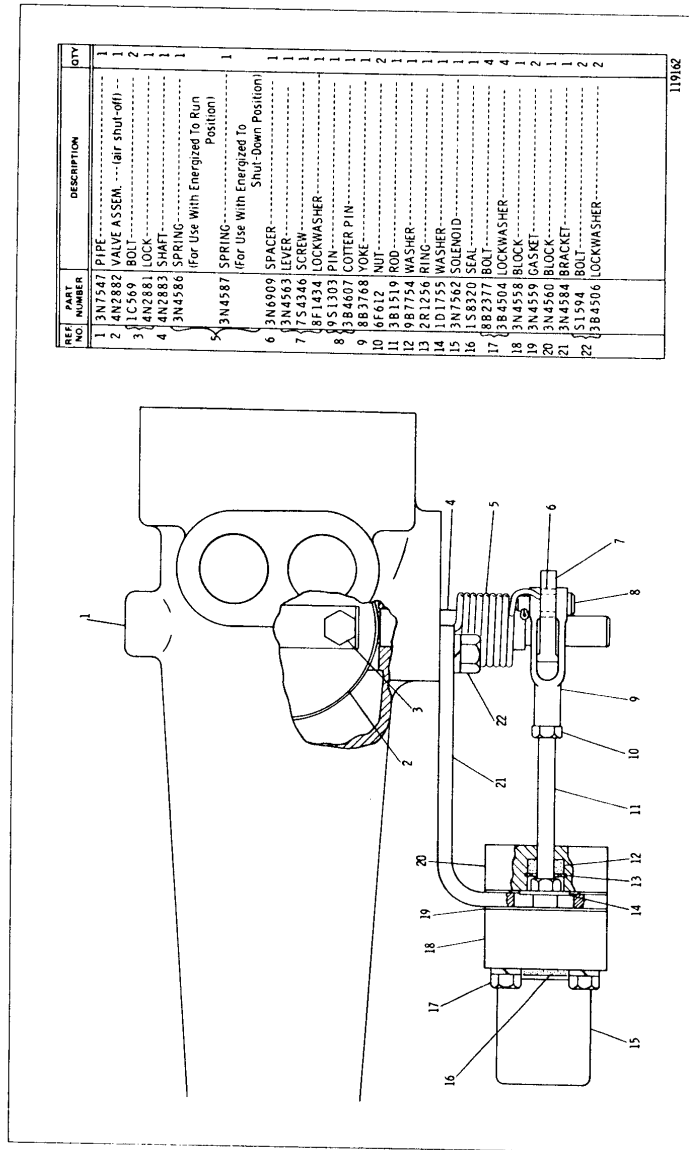


5N2062 SHUT-OFF SOLENOID GROUP—24 or 32 Volt—Type 3
FOR USE WITH 5N2060 AIR SHUT-OFF GROUP SHOWN ON PAGE 151D
AN ATTACHMENT



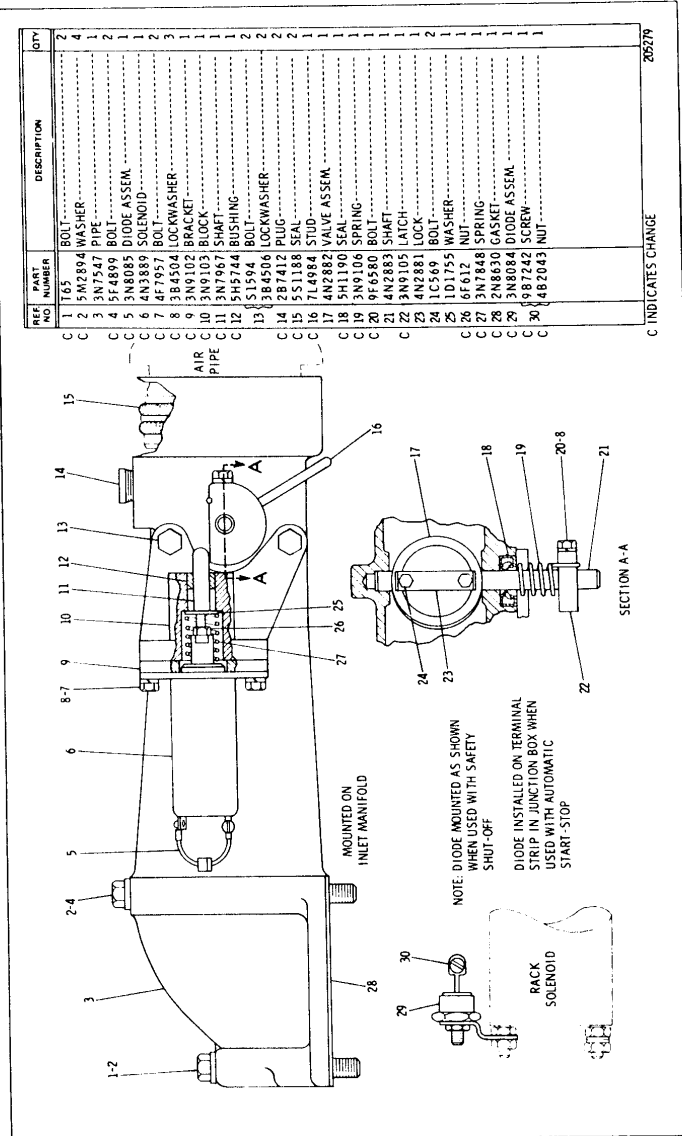
5N2062 SHUT-OFF SOLENOID GROUP—24 or 32 Volt—Type 4
FOR USE WITH 5N2060 AIR SHUT-OFF GROUP SHOWN ON PAGE 151D
AN ATTACHMENT

1



3N7548 AIR SHUT-OFF GROUP—12 Volt—Type 1
Also part of 3N8141 Overspeed and Air Shut-Off Group listed on Page 150-1
FOR USE WITH REAR MOUNTED TURBOCHARGER, AN ATTACHMENT

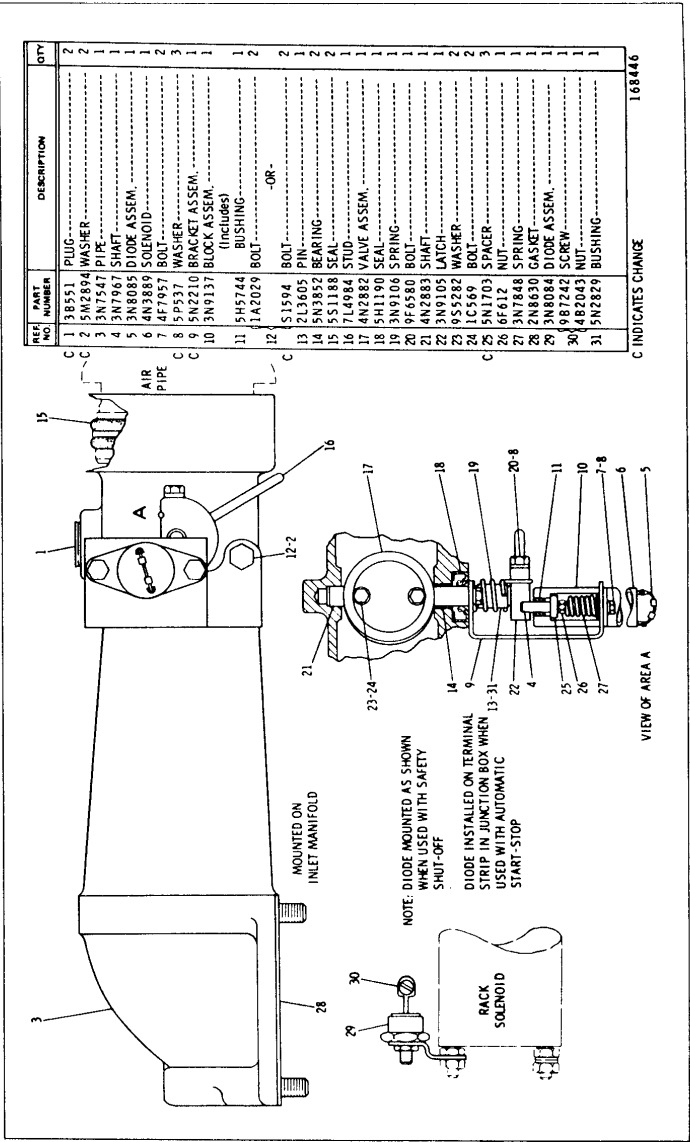
3N7548 AIR SHUT-OFF GROUP—12 Volt—Type 2
Also part of 3N8141 Overspeed and Air Shut-Off Group listed on Page 150-1
FOR USE WITH REAR MOUNTED TURBOCHARGER, AN ATTACHMENT

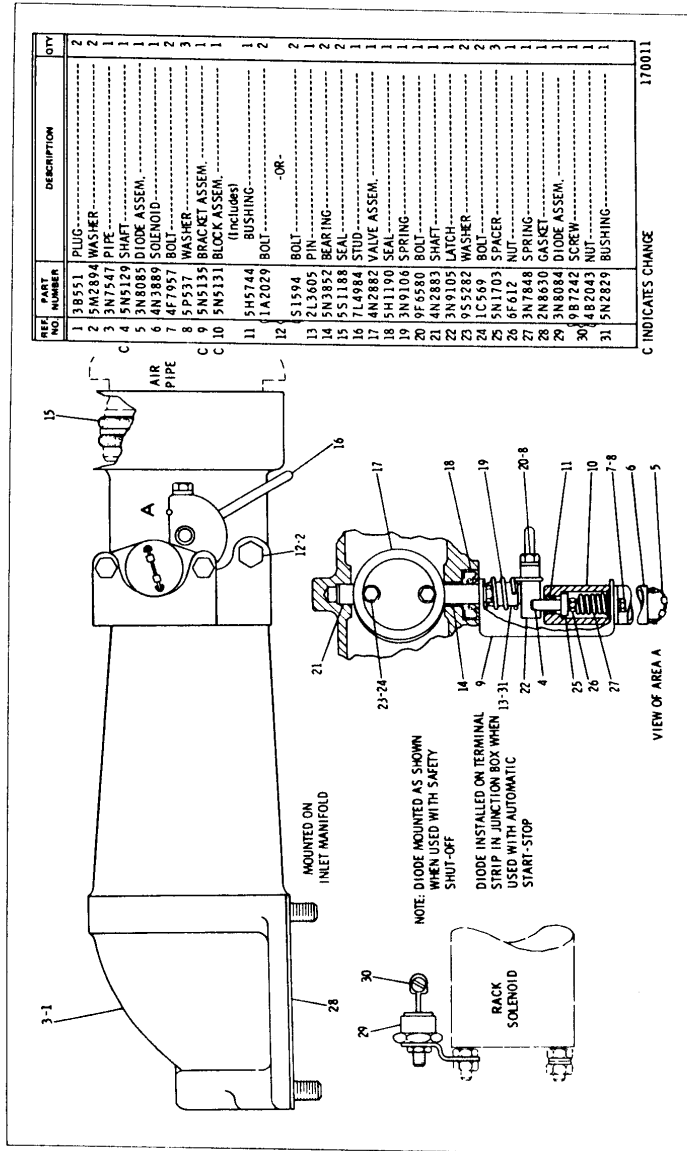


C INDICATES CHANGE

205279

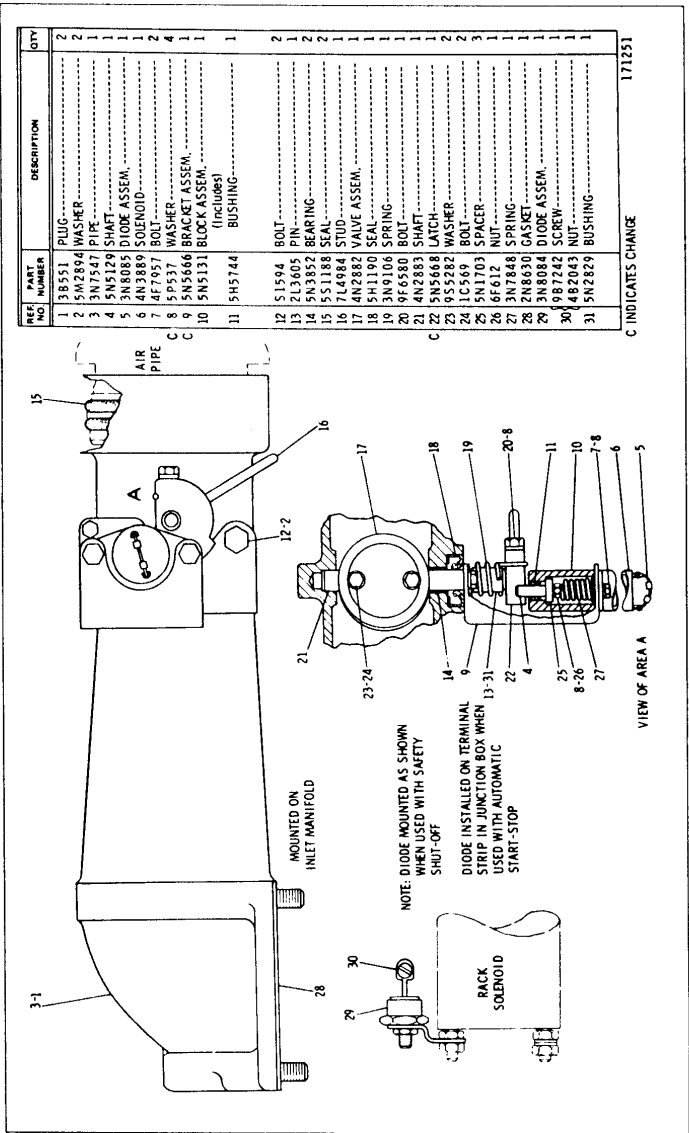
3N7648 AIR SHUT-OFF GROUP—12 Volt—Type 4
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8141 Overspeed and Air Shut-Off Group listed on Page 150-1
AN ATTACHMENT

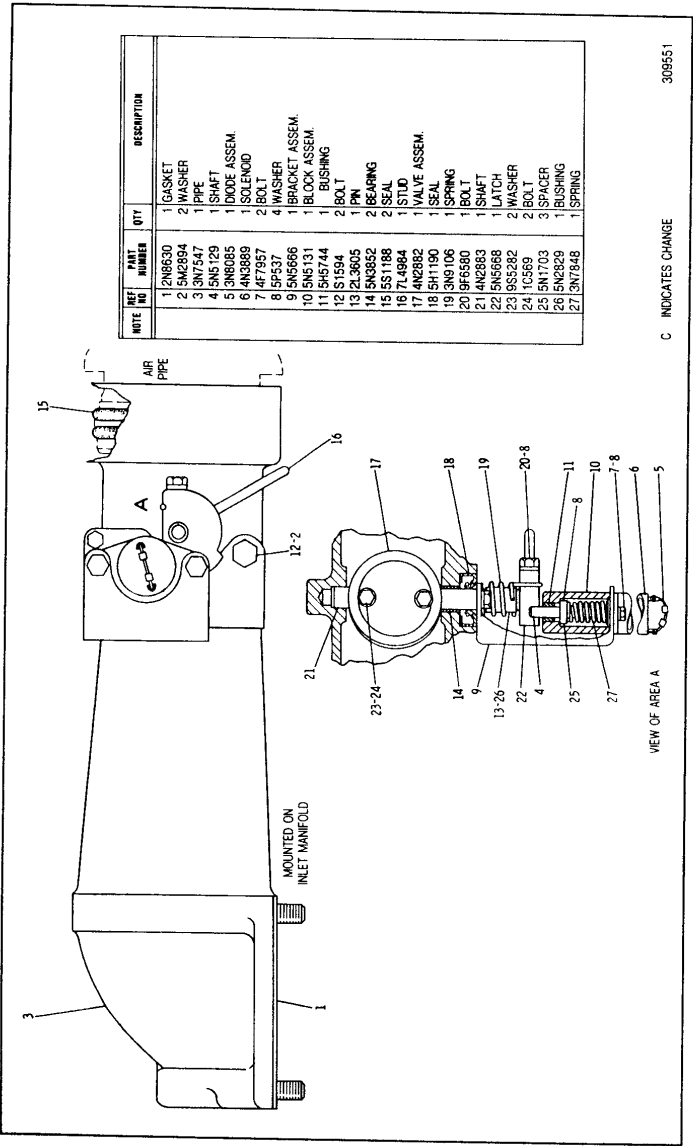




3N7548 AIR SHUT-OFF GROUP—Type 5
 FOR USE WITH REAR MOUNTED TURBOCHARGER
 Also part of 3N8141 Overspeed and Air Shut-Off Group listed on Page 150-1
 AN ATTACHMENT

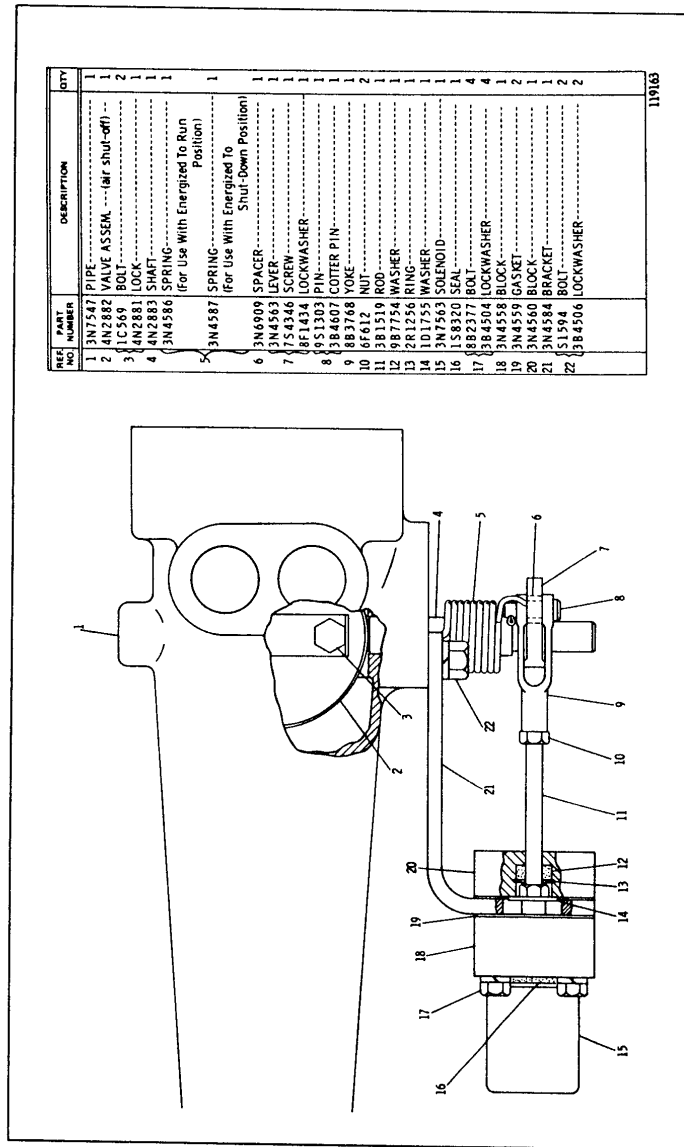
3N7548 AIR SHUT-OFF GROUP—Type 6
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8141 Overspeed and Air Shut-Off Group listed on Page 150-1
AN ATTACHMENT





C INDICATES CHANGE 305551

3N7548 AIR SHUT-OFF GROUP—Type 7
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8141 Overspeed and Air Shut-Off Group listed on Page 150.01
AN ATTACHMENT

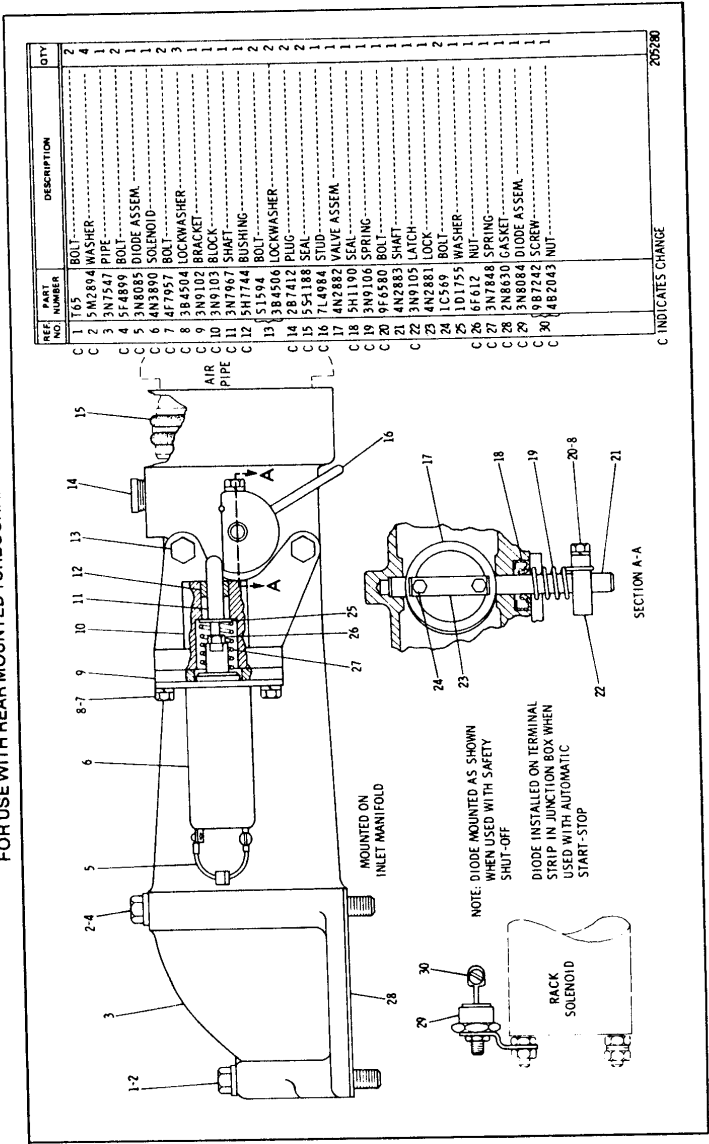


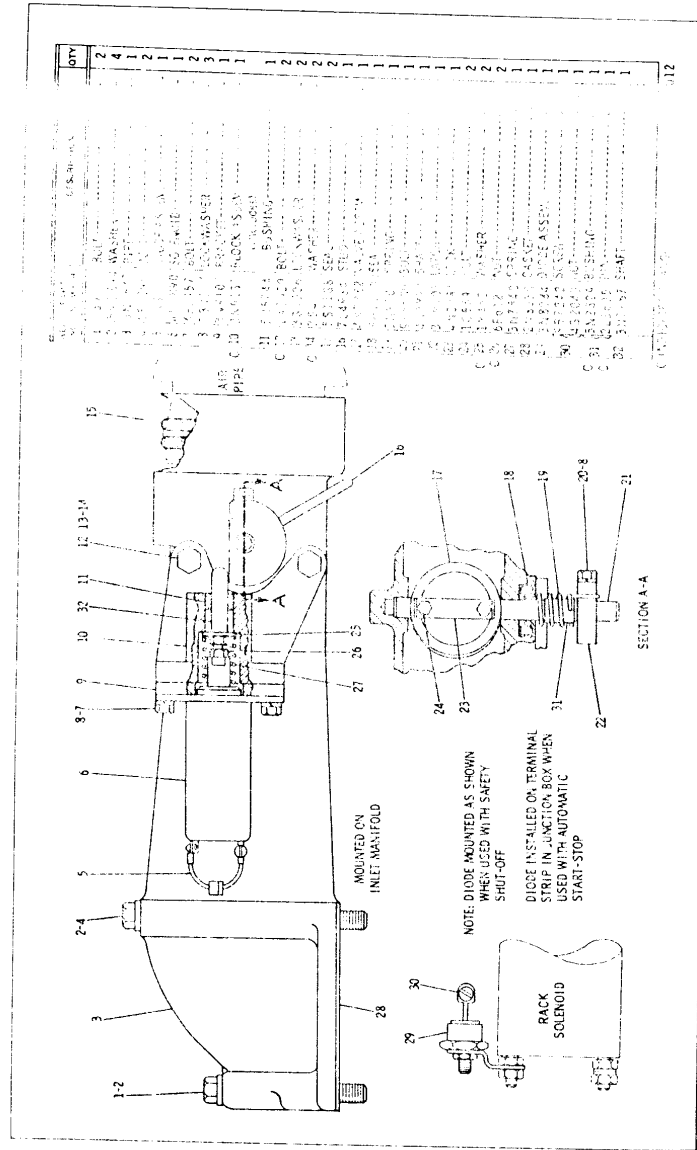
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	3N7547	PIPE	1
2	4N2882	VALVE ASSEMBLY (AIR SHUT-OFF)	1
3	1C369	BOLT	2
4	4N2881	LOCK	1
5	3N4586	SPRING (For Use With Energized To Run Position)	1
6	3N4587	SPRING (For Use With Energized To Shut-Down Position)	1
7	3N6909	SPACER	1
8	3N4563	LEVER	1
9	754346	SCREW	1
10	8F1434	LOCKWASHER	1
11	951303	PIN	1
12	384607	COTTER PIN	1
13	883768	YOKER	1
14	6F612	NUT	2
15	381519	ROD	1
16	887754	WASHER	1
17	2K1256	KING	1
18	101755	WASHER	1
19	3N7563	SOLENOID	1
20	883757	LOCK	1
21	384504	LOCKWASHER	4
22	3N4558	BLOCK	4
23	3N4559	GASKET	1
24	3N4560	BLOCK	2
25	3N4584	BRACKET	1
26	51594	BOLT	1
27	384506	LOCKWASHER	2

119163

3N7549 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 1
 Also part of 3N8144 Air Shut-Off Group listed on Page 150-1
 FOR USE WITH REAR MOUNTED TURBOCHARGER, AN ATTACHMENT

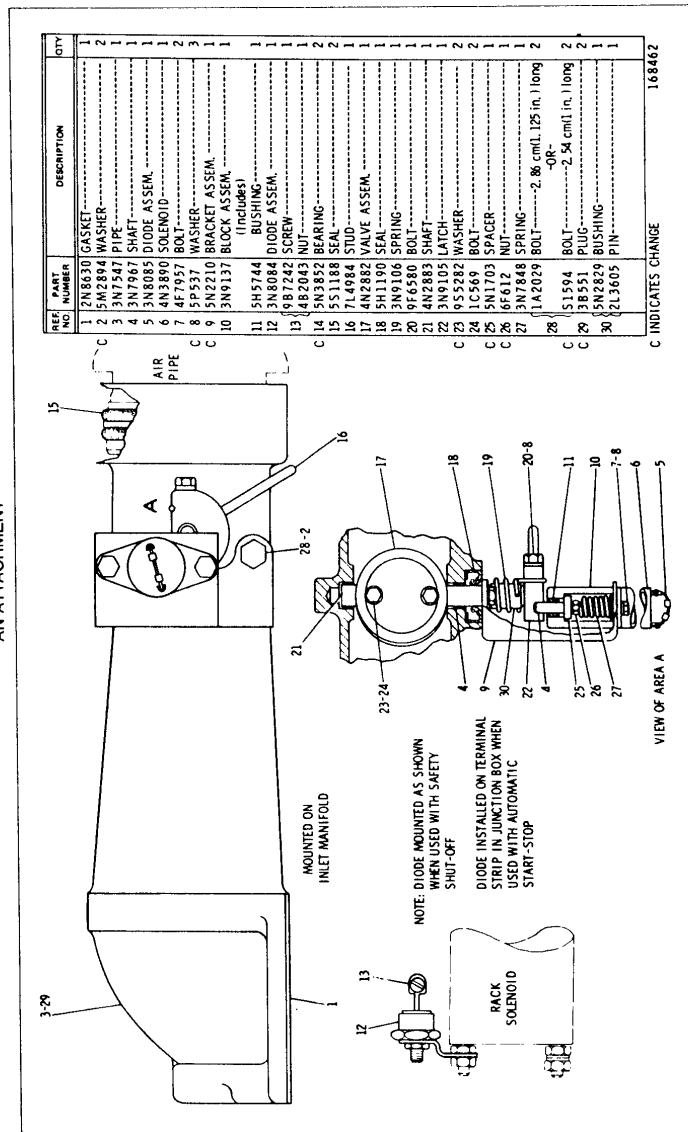
3N7549 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 2
Also part of 3N8144 Air Shut-Off Group listed on Page 150-1
FOR USE WITH REAR MOUNTED TURBOCHARGER, AN ATTACHMENT



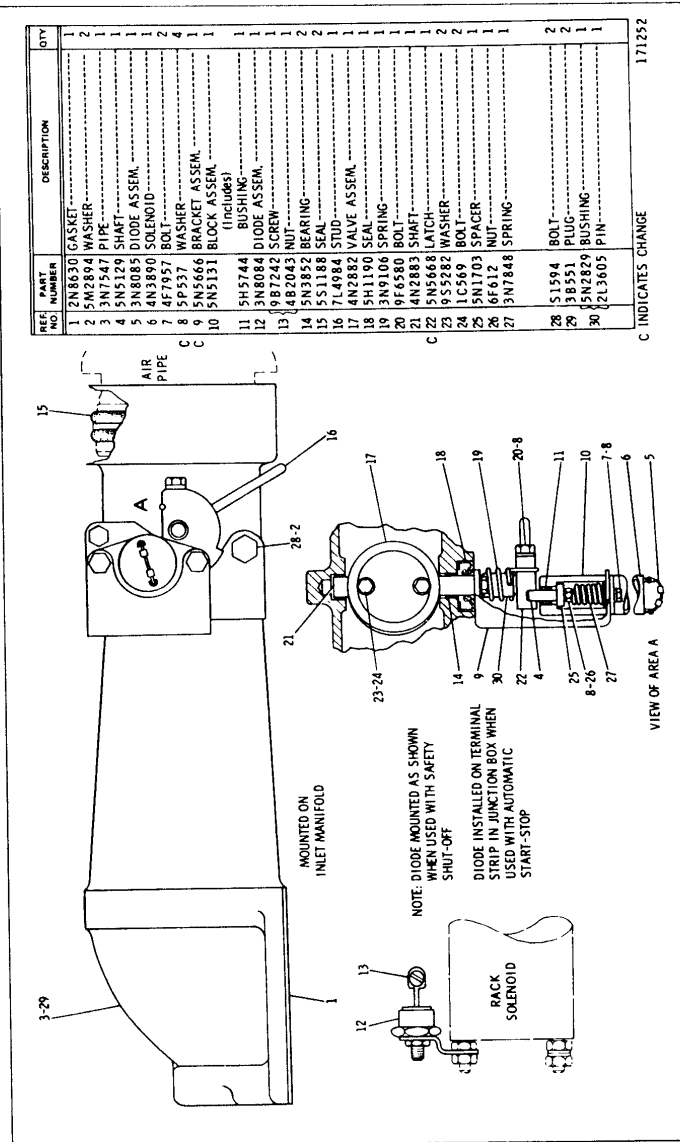


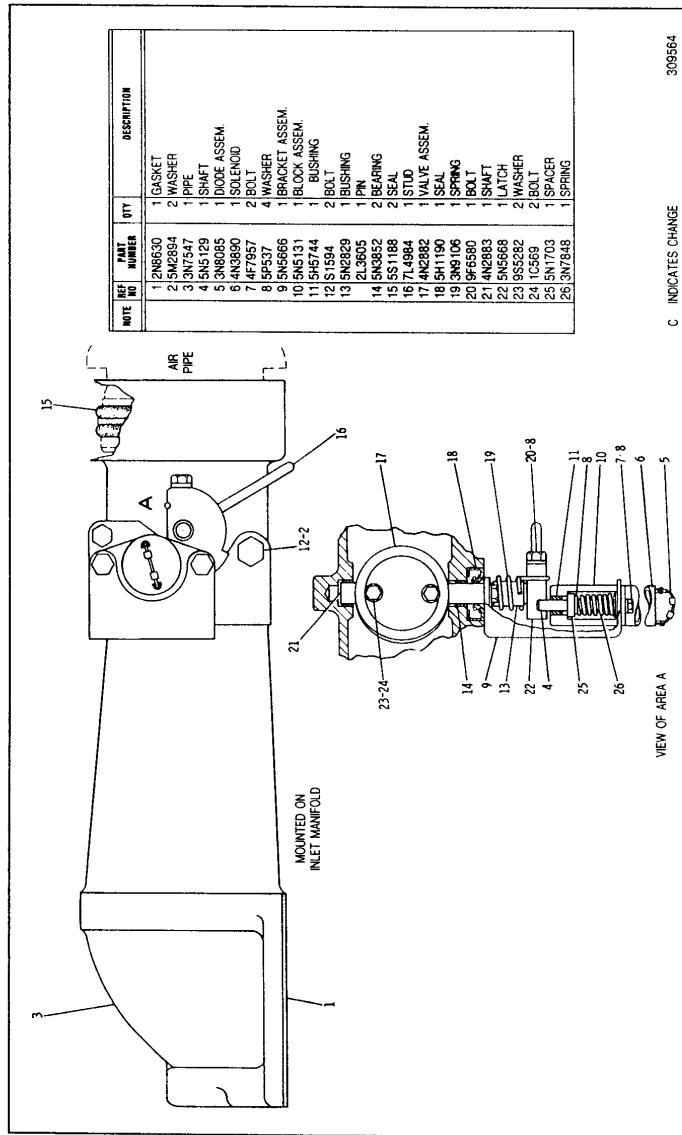
3N7549 AIR SHUT-OFF GROUP—74 or 32 Volt—Type 3
 Also part of 3N8144 Air Shut-Off Group listed on Page 15C
 FOR USE WITH REAR MOUNTED TURBOCHARGER AN ATTACHMENT

3N7549 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 4
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8144 Air Shut-Off Group listed on Page 150-1
AN ATTACHMENT

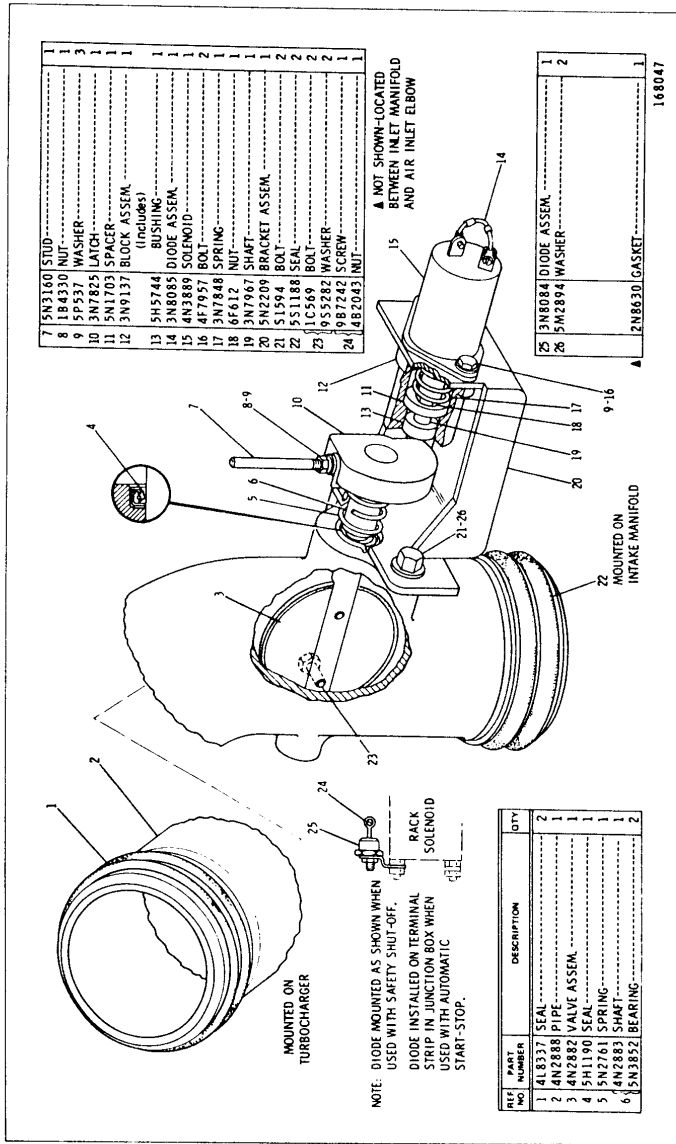


3N7549 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 6
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8144 Air Shut-Off Group listed on Page 150-1
AN ATTACHMENT



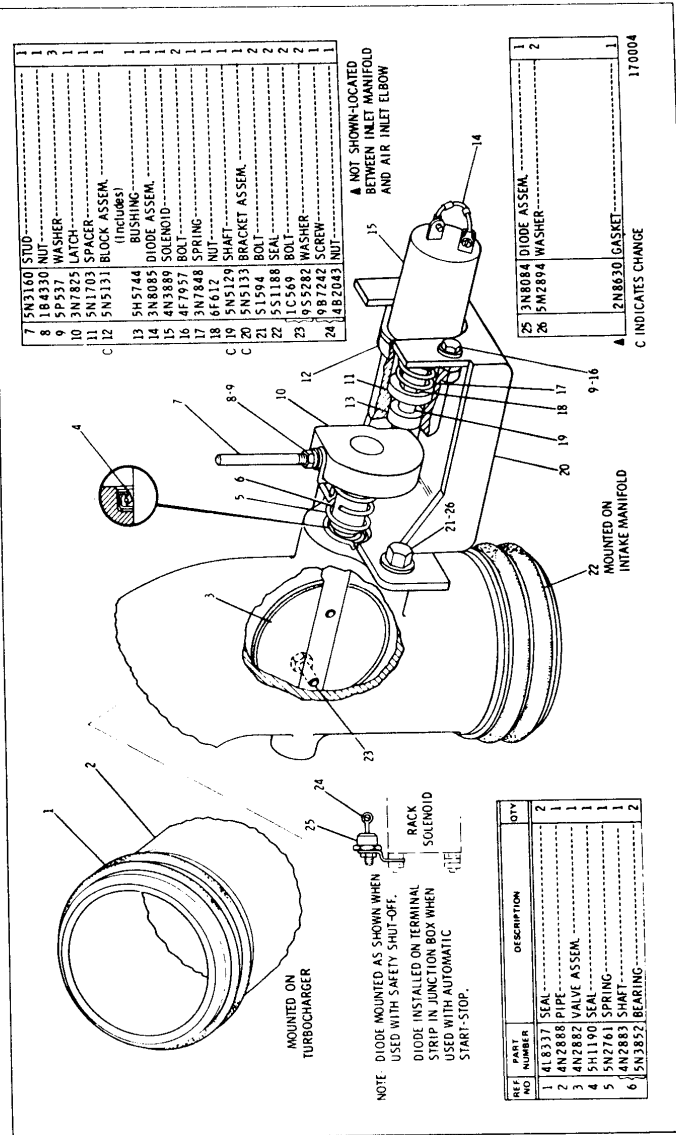


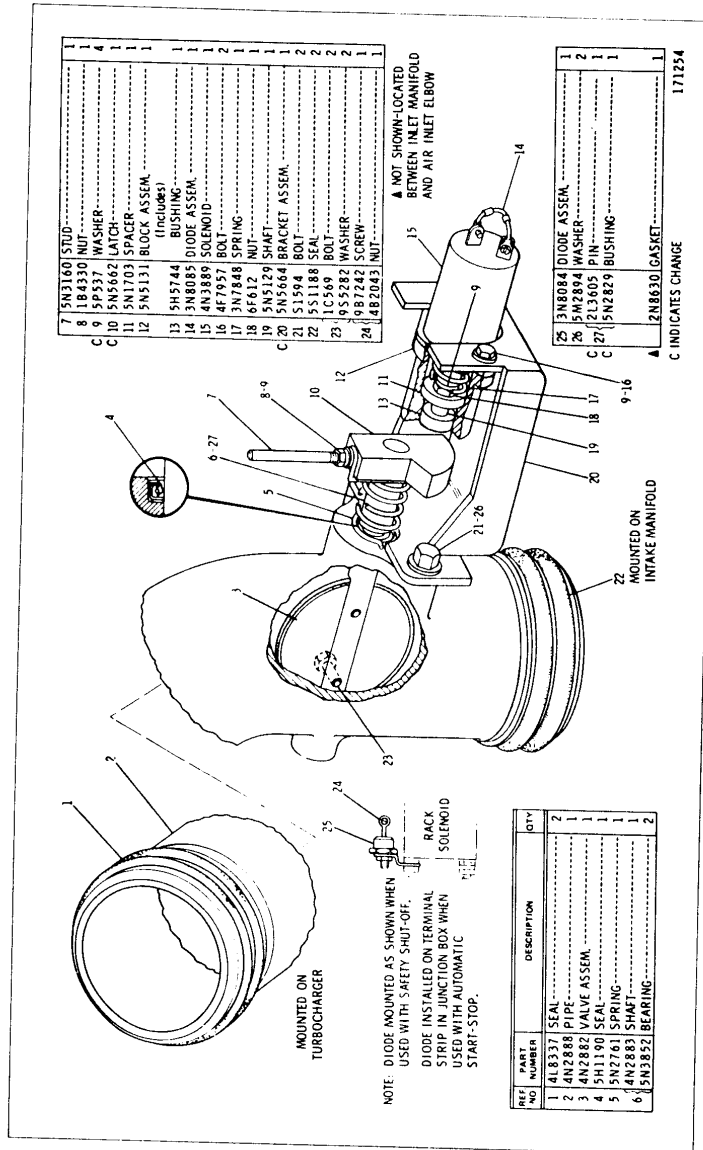
3N7549 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 7
FOR USE WITH REAR MOUNTED TURBOCHARGER
Also part of 3N8144 Air Shut-Off Group listed on Page 150.01
AN ATTACHMENT



5N1619 AIR SHUT-OFF GROUP—12 Volt—Type 1
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

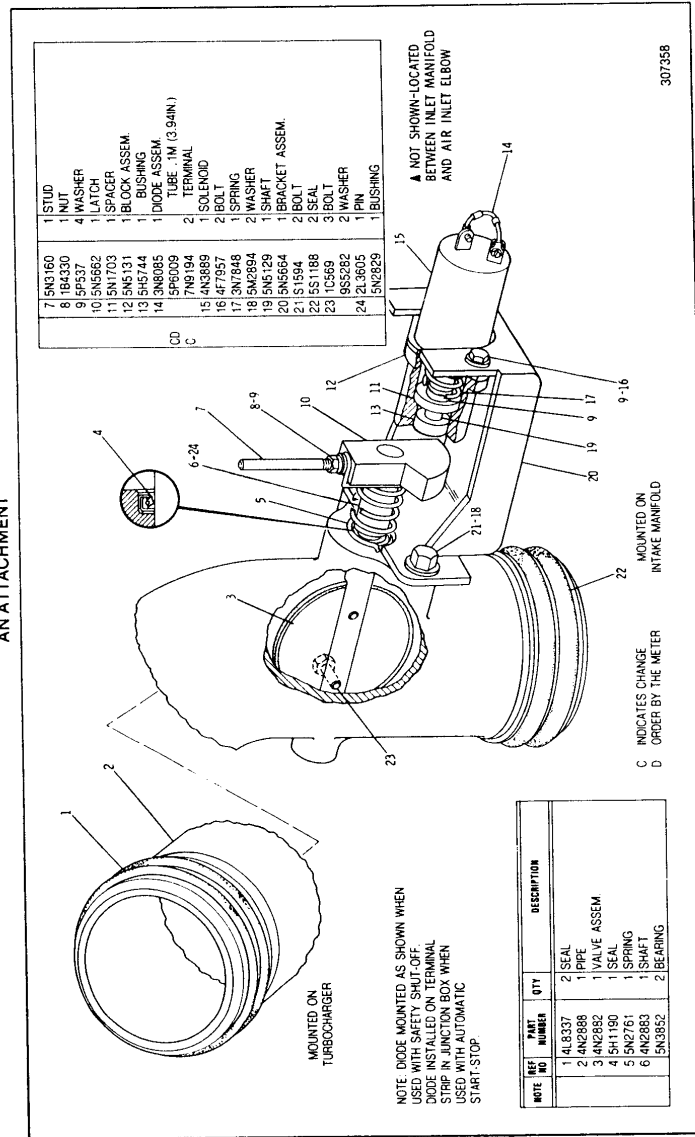
5N1619 AIR SHUT-OFF GROUP—12 Volt—Type 2
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT





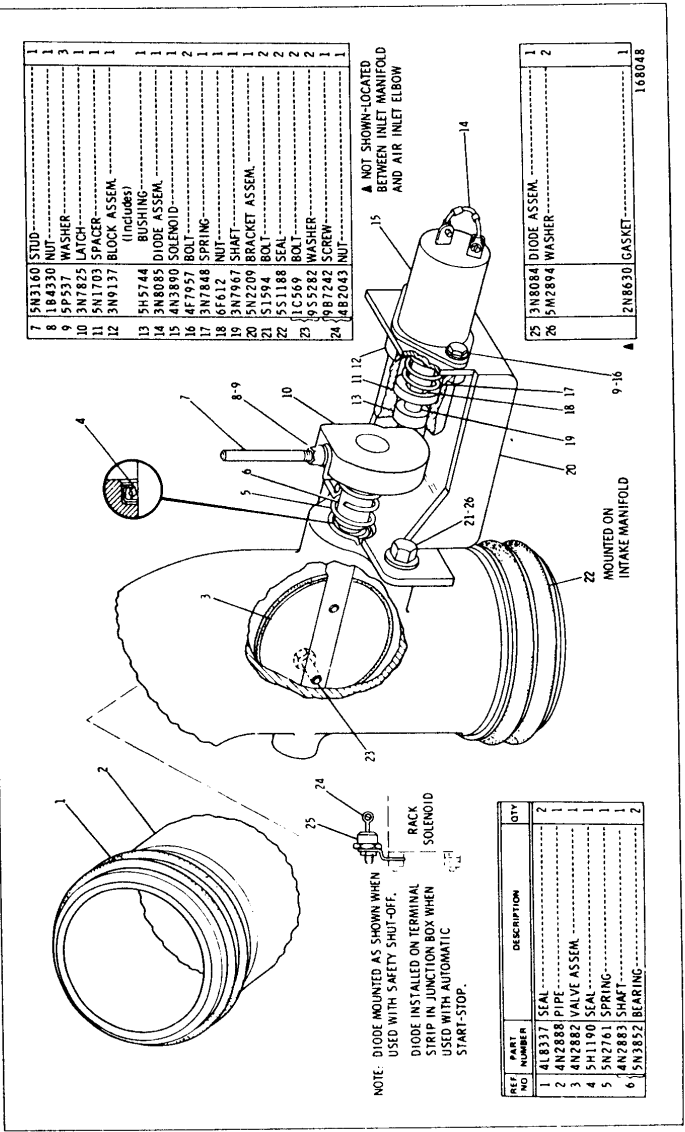
5N1619 AIR SHUT-OFF GROUP—12 Volt—Type 3
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

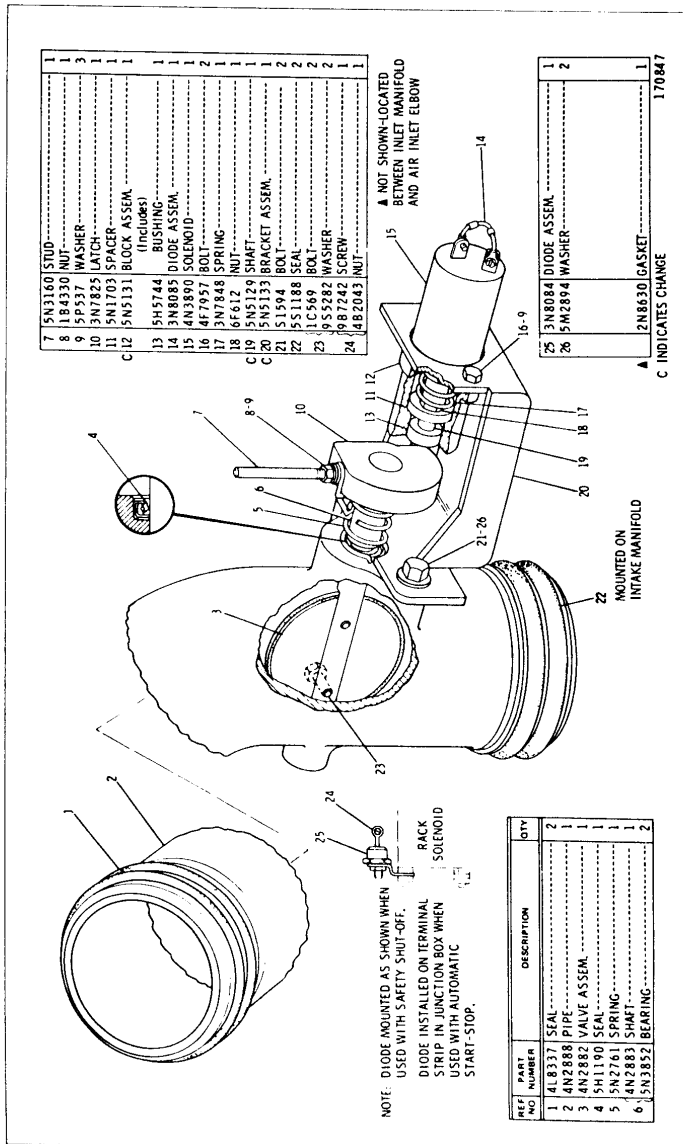
5N1619 AIR SHUT-OFF GROUP—12 Volt—Type 4
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT



307358

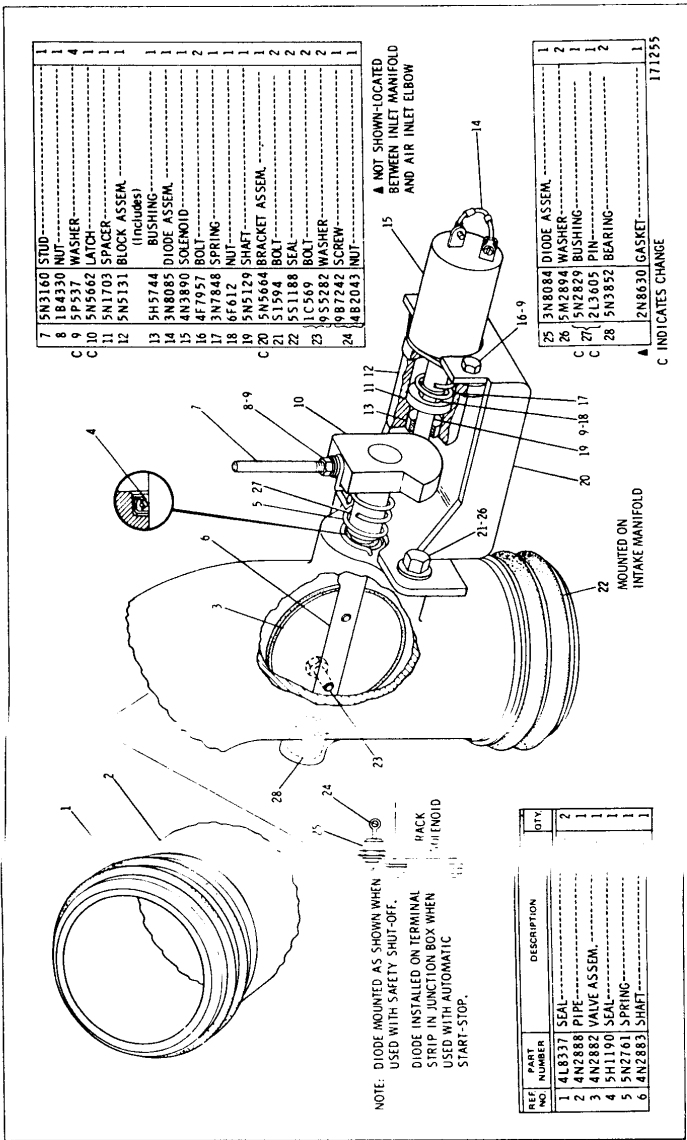
5N1820 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 1
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT



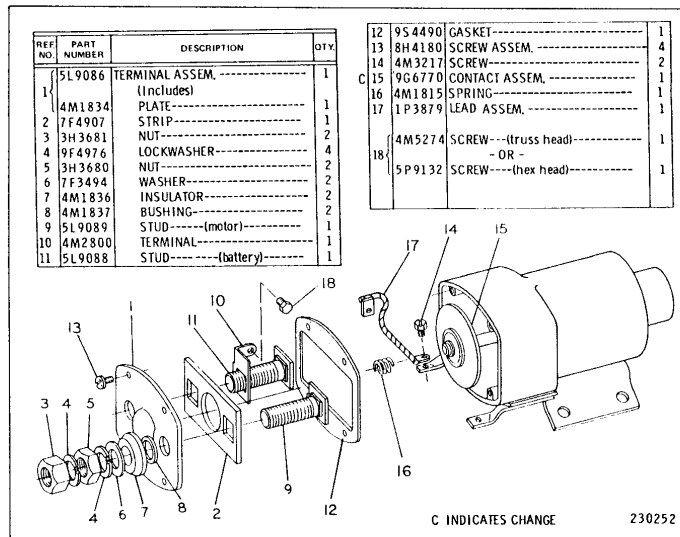


SN1820 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 2
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT

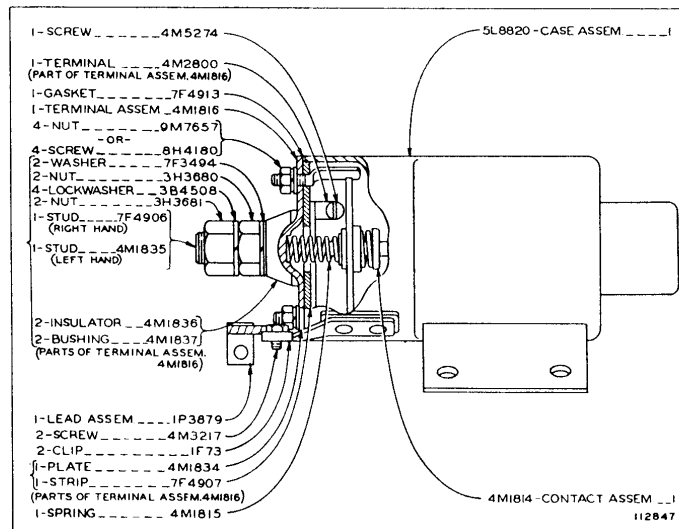
5N1620 AIR SHUT-OFF GROUP—24 or 32 Volt—Type 3
FOR USE WITH CENTER MOUNTED TURBOCHARGER
AN ATTACHMENT







7L6586 SOLENOID SWITCH ASSEMBLY—12 Volt
Part of 4N956 Electric Starting Motor Group shown on Page 142



5L8596 SOLENOID SWITCH ASSEMBLY
Part of Electric Starting Motor shown on Page 146D
AN ATTACHMENT

REF NO.	PART NUMBER	DESCRIPTION	QTY
1	9G6770	CONTACT ASSEM. -----	1
2	4M1815	SPRING -----	1
3	4M5274	SCREW -----	3
4	6T1121	GASKET -----	1
5	454065	SCREW -----	4
6	4B4274	WASHER -----	8
7	4B2049	NUT -----	4
8	6T1120	BUSHING -----	1

C 7	6T1124	TERMINAL ASSEM. -----	1
		(Includes) -----	
	3H3680	NUT -----	3
8	4B4280	WASHER -----	3
	9F4976	LOCKWASHER -----	2
	4B2049	NUT -----	3
9	4B4274	WASHER -----	3
	3B4502	LOCKWASHER -----	2
10	6T362	INSULATOR -----	1

C INDICATES CHANGE 302821

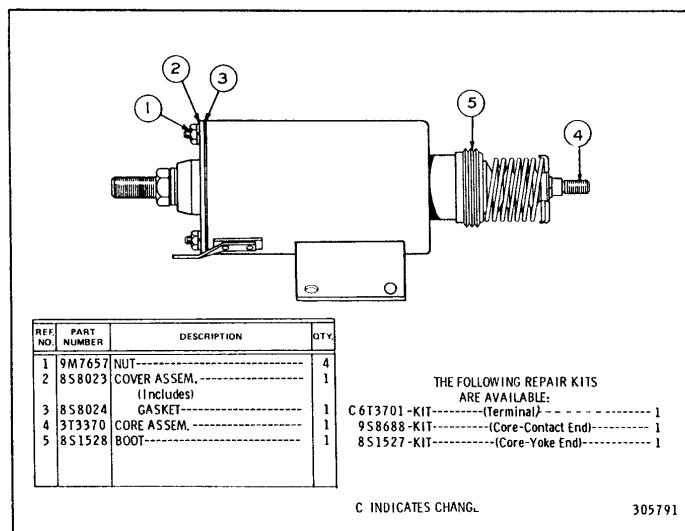
3T5051 SOLENOID ASSEMBLY—32 Volt
Part of 3T2656 Electric Starting Motor
AN ATTACHMENT

REF NO.	PART NUMBER	DESCRIPTION	QTY
1	9G6770	CONTACT ASSEM. -----	1
2	4M1815	SPRING -----	1
3	4M5274	SCREW -----	3
4	6T1121	GASKET -----	1
5	454065	SCREW -----	4
6	4B4274	WASHER -----	8
7	4B2049	NUT -----	4
8	6T1120	BUSHING -----	1

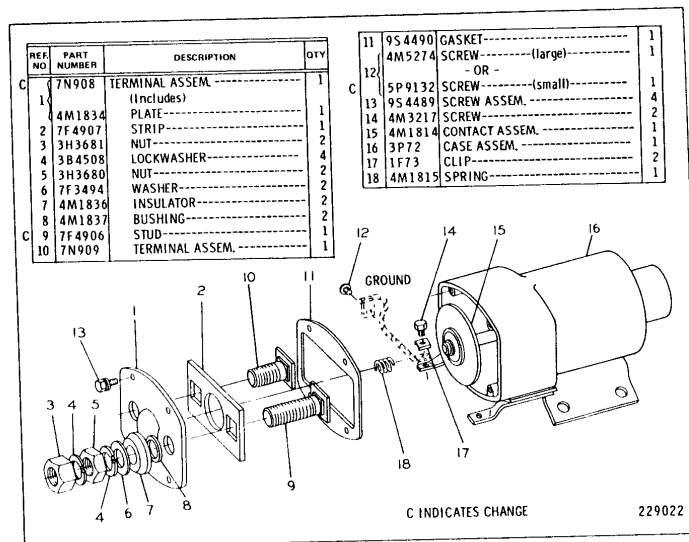
7	6T1119	TERMINAL ASSEM. -----	1
		(Includes) -----	
	3H3680	NUT -----	3
8	4B4280	WASHER -----	3
	9F4976	LOCKWASHER -----	2
	4B2049	NUT -----	3
9	4B4274	WASHER -----	3
	3B4502	LOCKWASHER -----	2
10	6T362	INSULATOR -----	1
	SMHS 7843	FORM -----	1
		(Installing Solenoid Assem.) -----	

302523

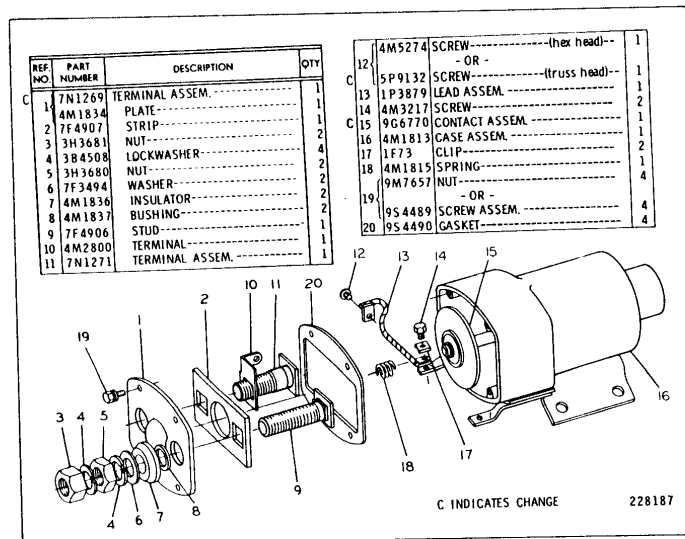
3T3421 SOLENOID ASSEMBLY—24 Volt
Part of 3T2780, 3T2785, 3T8949 and 3T8953 Electric Starting Motors



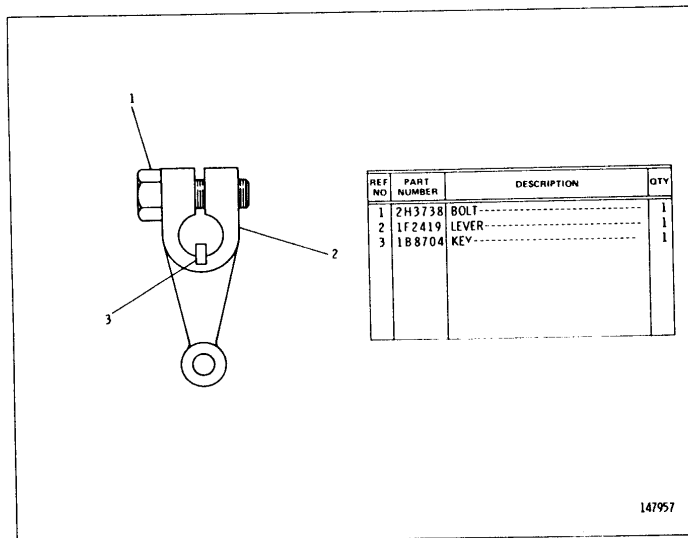
3T8635 SOLENOID ASSEMBLY--24 Volt
Part of 7G7906 and 6T640 Electric Starting Motor



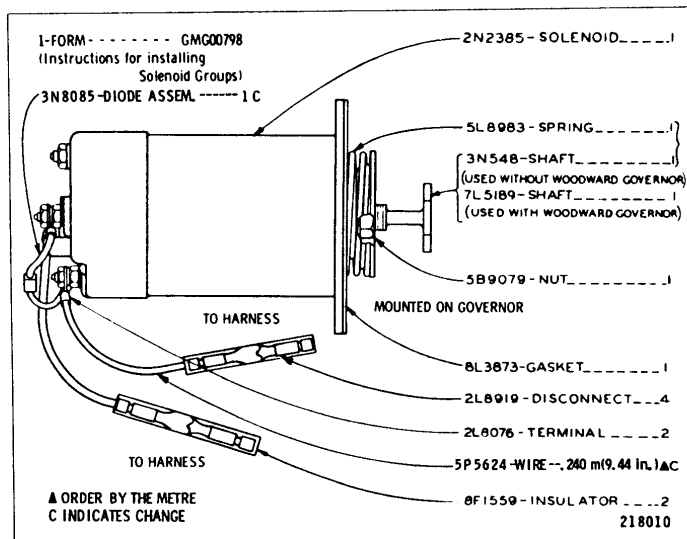
6N5123 SOLENOID SWITCH ASSEMBLY—24 Volt
Part of 6N3122, 4N957 and 4N3349 Electric Starting Motor Groups



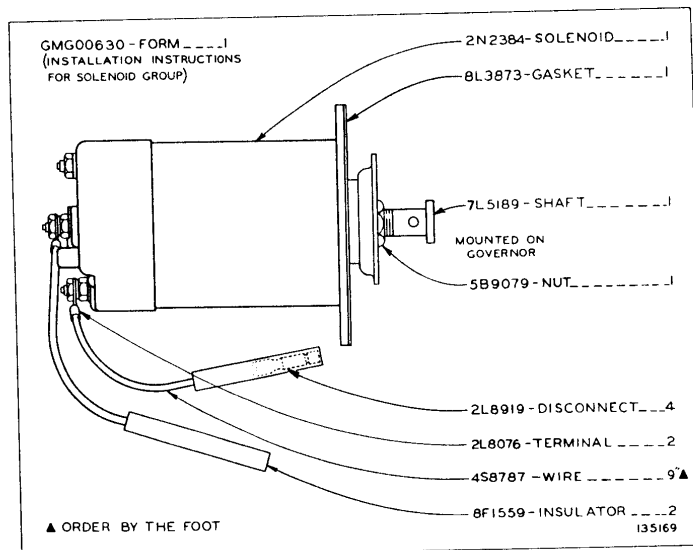
4M1812 SOLENOID SWITCH ASSEMBLY
Part of 5L3648 and 9N453 Starting Motor Assembly



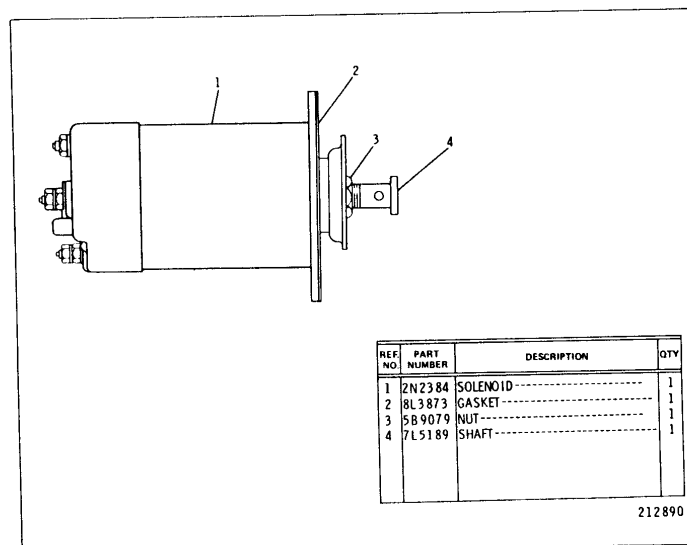
3N7742 MANUAL SHUT-OFF GROUP
FOR USE WITH MOBILE APPLICATION ENGINE. AN ATTACHMENT



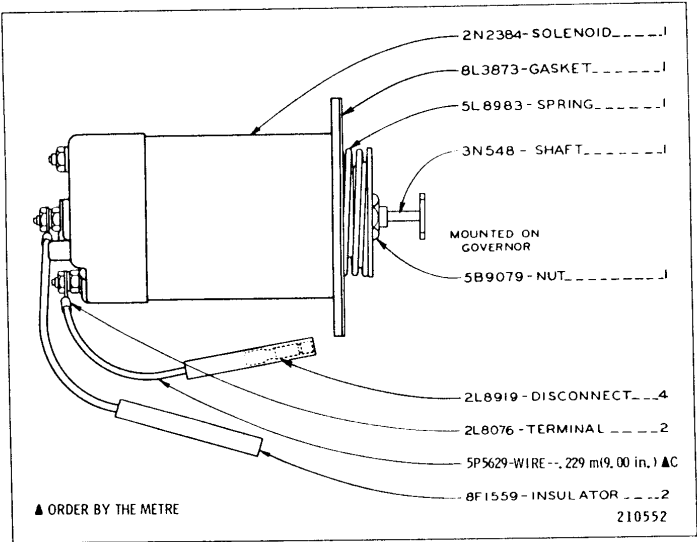
3N584 SOLENOID SHUT-OFF GROUP—24 Volt
Part of 3N4580 Automatic Start-Stop Arrangement listed on Page 140
Refer to Chart shown on Page 140A for usage



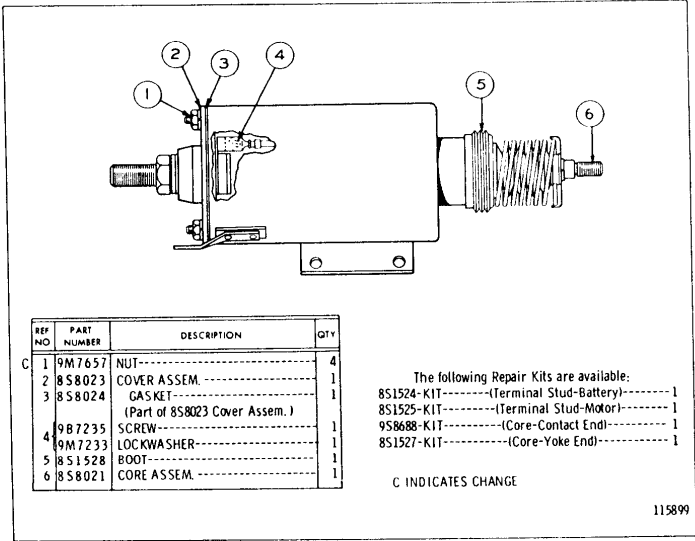
2N8902 SOLENOID SHUT-OFF GROUP—12 Volt—Type 1
AN ATTACHMENT



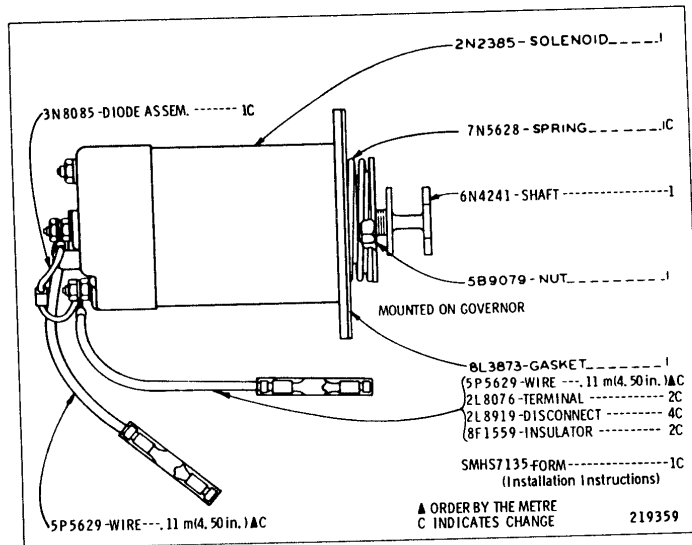
2N8902 SOLENOID SHUT-OFF GROUP—12 Volt—Type 2
AN ATTACHMENT



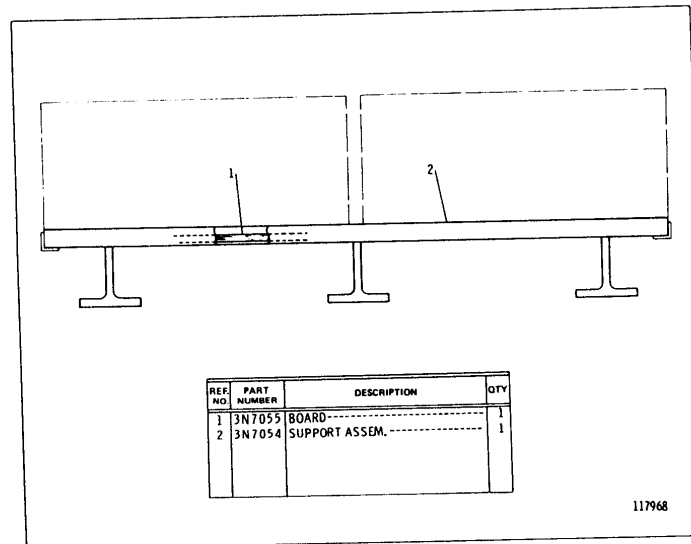
3N583 SOLENOID SHUT-OFF GROUP—12 Volt
AN ATTACHMENT



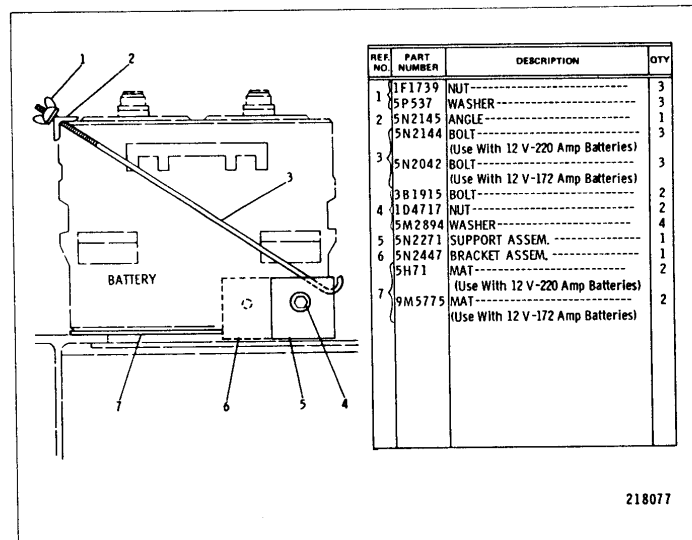
9S7976 SOLENOID ASSEMBLY—24 Volt
Part of 6N1888 Starting Motor Group shown on Page 145B



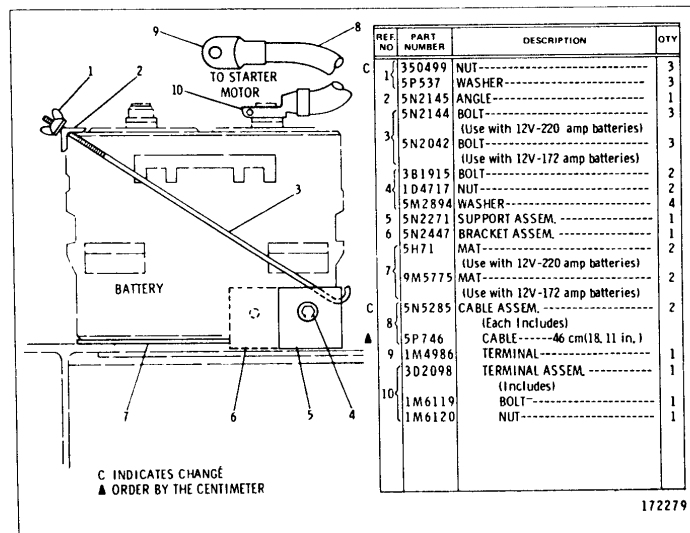
6N4201 SOLENOID SHUT-OFF GROUP
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT



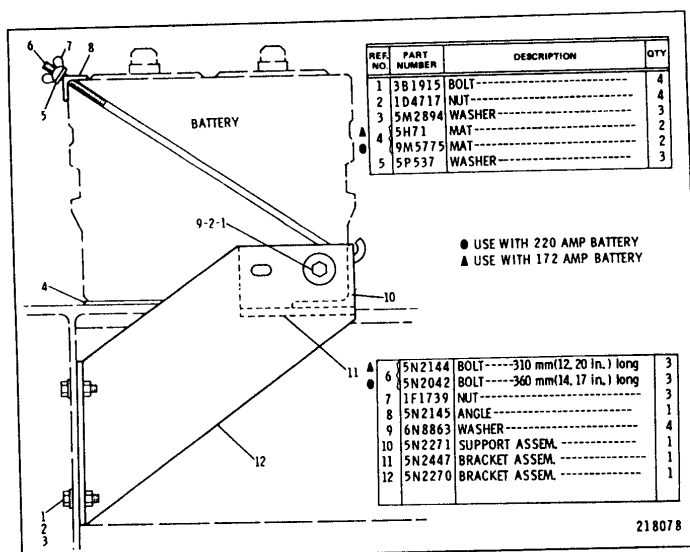
3N7056 BATTERY SUPPORT GROUP
AN ATTACHMENT



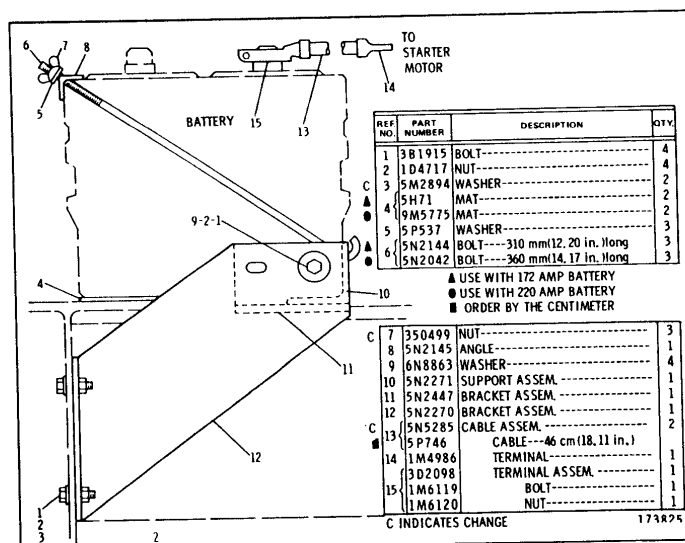
5N2448 BATTERY SUPPORT GROUP—Type 1
FOR USE WITH 5N2016 FUEL TANK AND BASE GROUP SHOWN ON PAGE 141A-1
AN ATTACHMENT



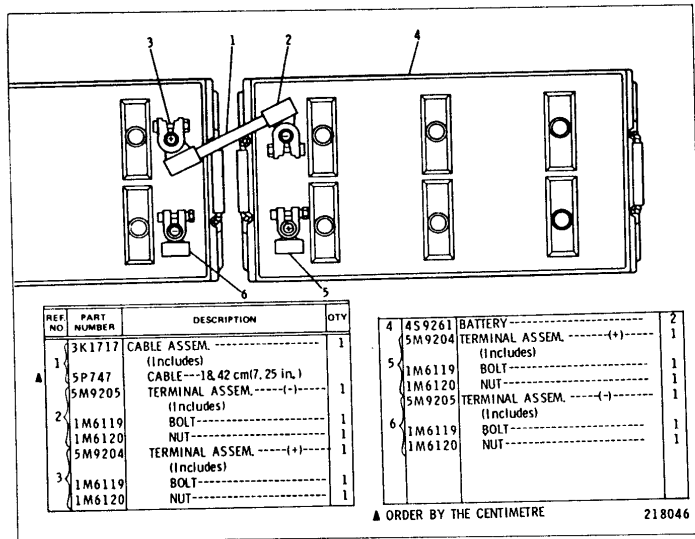
5N2448 BATTERY SUPPORT GROUP—Type 2
FOR USE WITH 5N2016 FUEL TANK AND BASE GROUP SHOWN ON PAGE 141A-1
AN ATTACHMENT



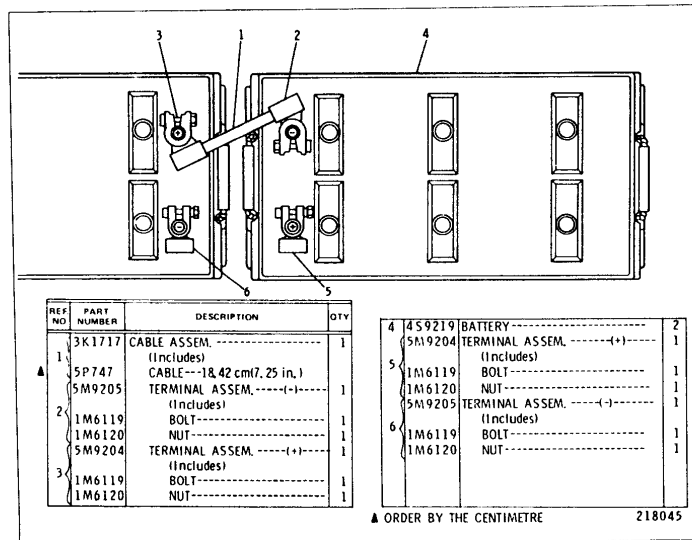
5N2449 BATTERY SUPPORT GROUP—Type 1
FOR USE WITH 5N2017 ENGINE BASE GROUP SHOWN ON PAGE 177.05
AN ATTACHMENT



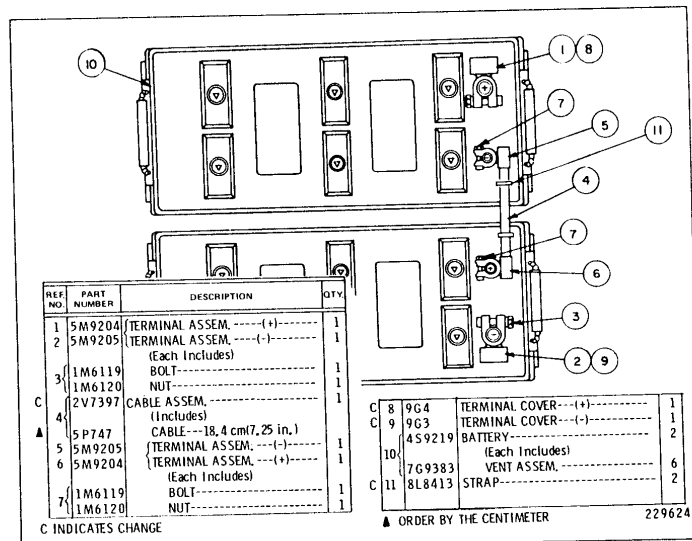
5N2449 BATTERY SUPPORT GROUP—Type 2
FOR USE WITH 5N2017 ENGINE BASE GROUP SHOWN ON PAGE 177.05
AN ATTACHMENT



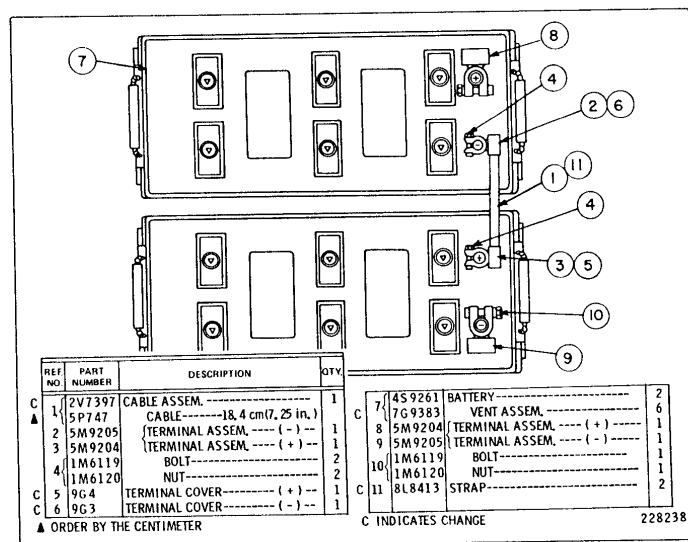
5N2121 BATTERY GROUP—24 Volt, 172 Ampere Hours
FOR USE BETWEEN 0 DEGREES AND 30 DEGREES FAHRENHEIT TEMPERATURES
AN ATTACHMENT



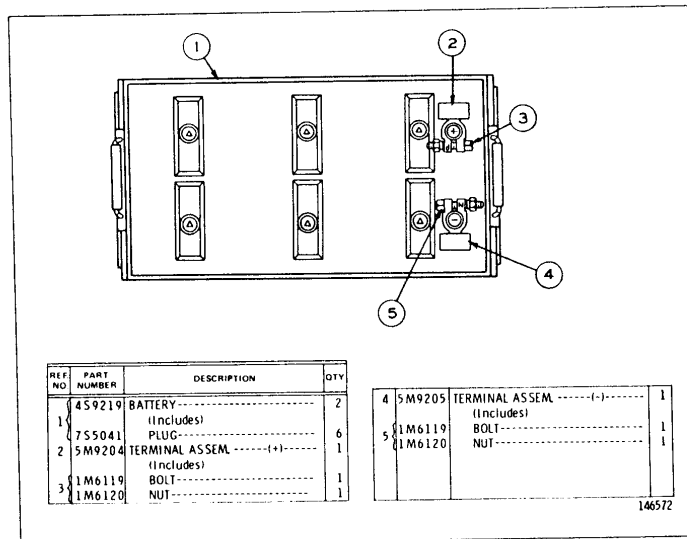
5N2123 BATTERY GROUP—24 Volt, 220 Ampere Hours
FOR USE BETWEEN -20 DEGREES AND 0 DEGREES FAHRENHEIT TEMPERATURES
AN ATTACHMENT



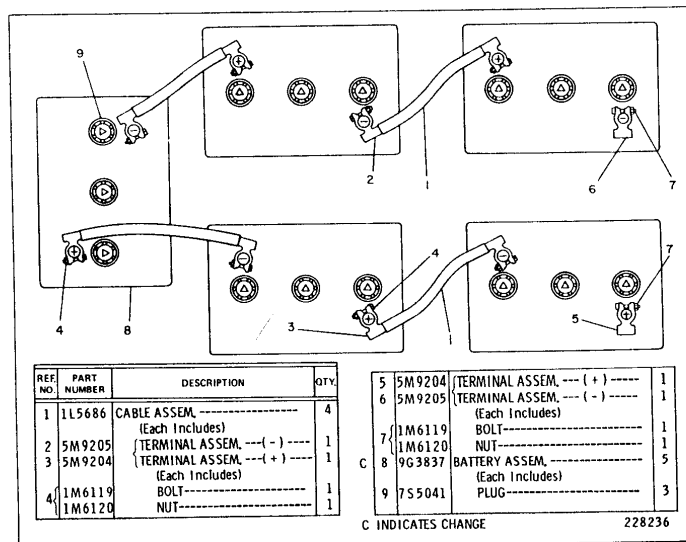
7L7872 BATTERY GROUP—24 Volt, 220 Ampere Hours
 FOR USE BETWEEN -20 DEGREES AND 0 DEGREES FAHRENHEIT TEMPERATURES
 Only separate parts serviced. AN ATTACHMENT



7L7871 BATTERY GROUP—24 Volt, 172 Ampere Hours
 FOR USE BETWEEN 0 DEGREES AND 30 DEGREES FAHRENHEIT TEMPERATURES
 Only separate parts serviced. AN ATTACHMENT



6N3 BATTERY GROUP (Parallel)—12 Volt, 440 Ampere Hours
FOR USE ABOVE 30 DEGREES FAHRENHEIT TEMPERATURES
AN ATTACHMENT



2N1943 BATTERY GROUP—30 Volt, 172 Ampere Hours
FOR USE BETWEEN 0 DEGREE AND 30 DEGREES FAHRENHEIT TEMPERATURES
AN ATTACHMENT

		Consists of:
	4S8784	Wire (No. 6)—5 Foot
	4S8785	Wire (No. 10)—6 Foot
	4S8787	Wire (No. 14)—35 Foot
2	2L8049	Terminal (No. 10 Screw)
1	2L8052	Terminal (3/8" Screw)
2	2L8054	Terminal (1/2" Screw) (Used with No. 6 Wire)
2	2L8065	Terminal (No. 8 Screw)
3	2L8067	Terminal (1/4" Screw)
2	2L8071	Terminal (1/2" Screw)
2	2L8074	Terminal (No. 6 Screw) (Used with No. 10 Wire)
21	2L8076	Terminal (No. 10 Screw)
2	2L8079	Terminal (3/8" Screw) (Used with No. 14 Wire)
2	5P1475	Terminal—Spring Spade (14-16 No. 8 Screw)
2	5P1476	Terminal—Spring Spade (14-16 No. 10 Screw)
2	5P1477	Terminal—Spring Spade (10-12 No. 8 Screw)
2	5P1478	Terminal—Spring Spade (10-12 No. 10 Screw)
1	5D5569	Connector—Sealing Grip
6	1H5166	Clip (3.50" Long)
1	2H2143	Marker (Card of)
2	2H2965	Connector—Wire
6	2L9724	Clip (2.50" Long)
2	5L2579	Grommet—Junction Box
1	6L8150	Jumper—Terminal Strip
75	8L8413	Tie (5.50" Long)
6	3S2093	Tie (7.31" Long)
1	4L2791	Marker

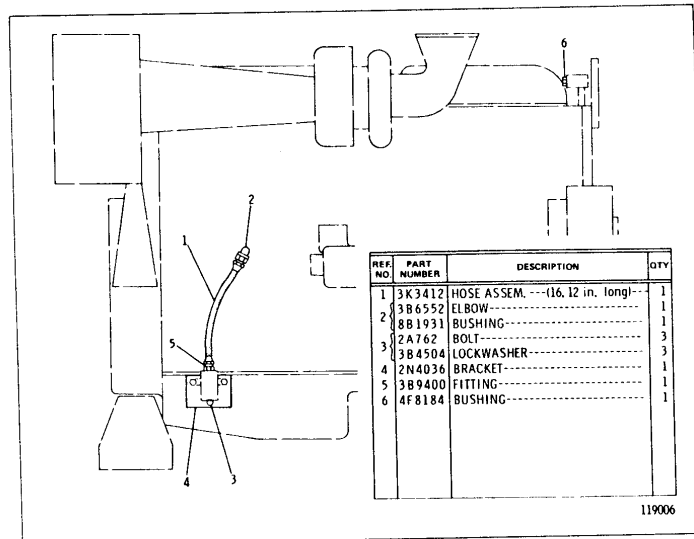
8L4849 WIRING GROUP

Part of 3N4580 Automatic Start-Stop Arrangement listed on Page 140. Refer to Chart shown on Page 140A for usage. FOR USE WITH ELECTRIC WOODWARD GOVERNOR

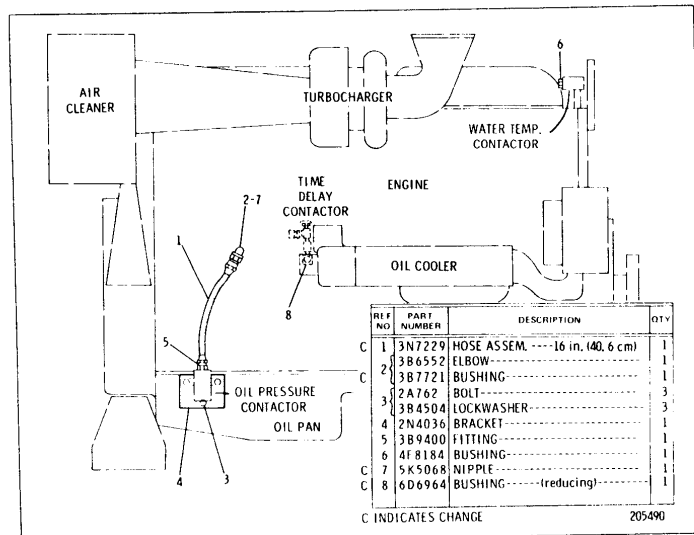
		Consists of:
1	1L9899	Markers
2	1H5166	Clip
3	2L9724	Clip
	4S8784	Wire—24"
	4S8785	Wire—120"
	4S8787	Wire—120"
1	4H8310	Strap
2	9F9203	Connector
4	2L8076	Terminal
2	2L8081	Terminal
4	2L8066	Terminal
4	2L8068	Terminal
1	2L8071	Terminal
1	2L8052	Terminal
2	2L8054	Terminal
6	8L8413	Tie
2	3S2093	Tie
2	2N5301	Terminal

ELECTRIC STARTING SYSTEM WIRING (3L6655 N/S)

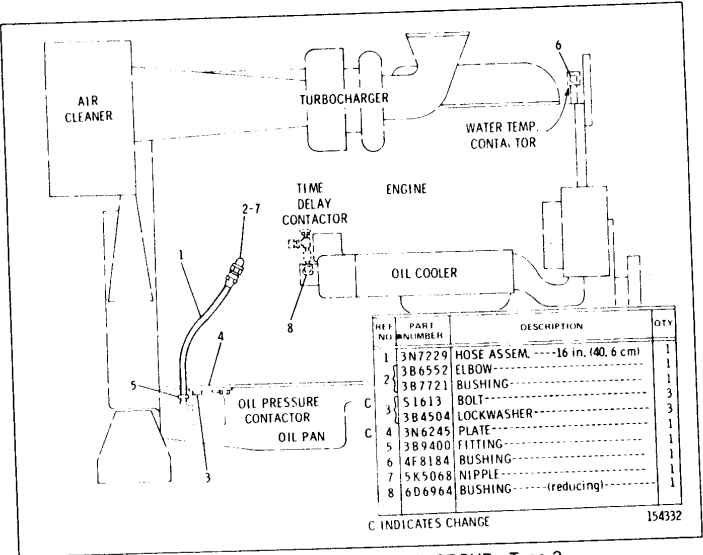
Part of 4N9264 and 4N6498 Electric Starting Motor Groups and 6N2039 Heat Start Switch Group shown on Pages 138 and 138A



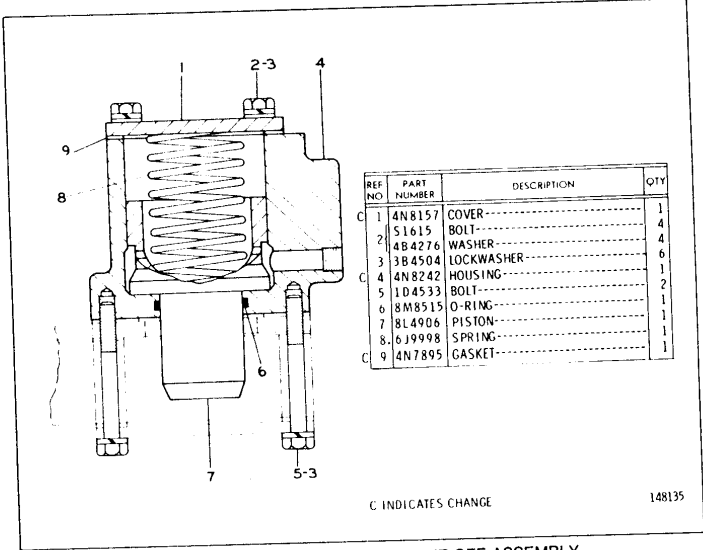
3N4585 CONTACTOR MOUNTING GROUP—Type 1
Part of 3N4580 Start-Stop Arrangement, 3N8132 Safety Shut-Off and 3N8131 Alarm Contactor Group listed on Pages 140 and 159. Refer to Chart shown on Page 140A for usage



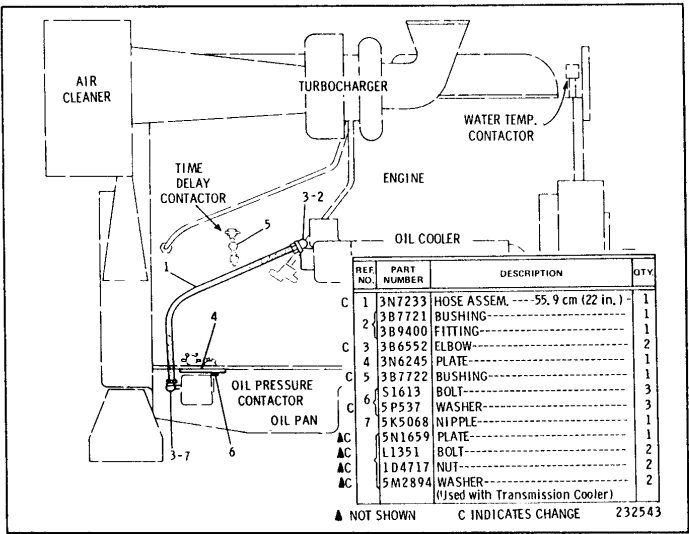
3N4585 CONTACTOR MOUNTING GROUP—Type 2
Part of 3N4580 Start-Stop Arrangement, 3N8132 Safety Shut-Off and 3N8131 Alarm Contactor Group listed on Pages 140 and 159. Refer to Chart shown on Page 140A for usage



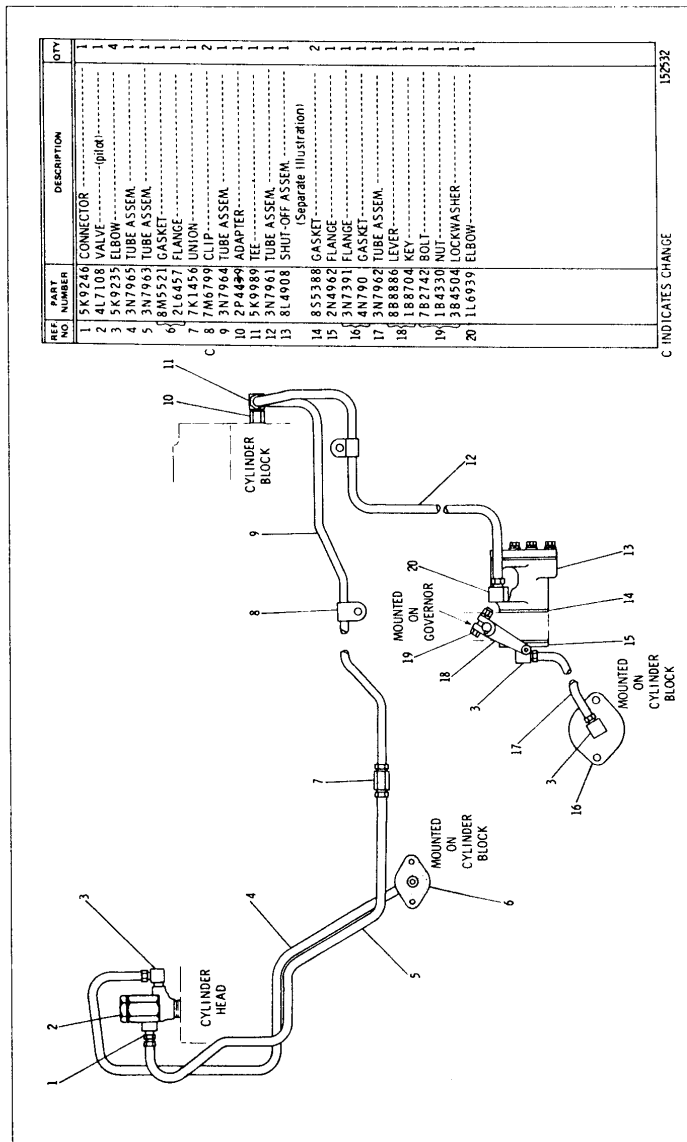
3N4585 CONTACTOR MOUNTING GROUP—Type 3
Part of 3N4580 Start-Stop Arrangement, 3N8132 Safety Shut-Off and 3N8131 Alarm Contactor Group listed on Pages 140 and 159. Refer to Chart shown on Page 140A for usage



8L4908 OIL PRESSURE SAFETY SHUT-OFF ASSEMBLY
Part of 3N8150 and 5N3037 Oil Pressure and Water Temperature Safety Mechanical Shut-Off Groups shown on Pages 158-2 and 158-3



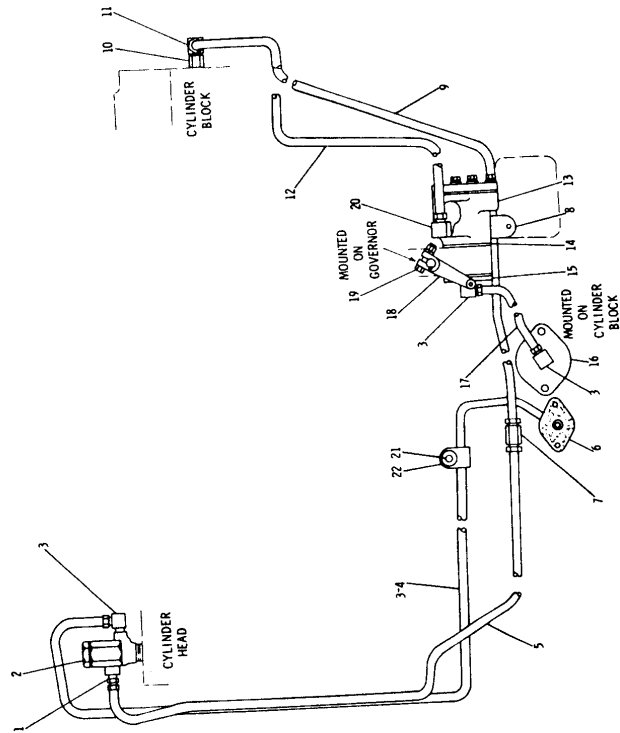
3N4585 CONTACTOR MOUNTING GROUP—Type 4
Part of 3N4580 Start-Stop Arrangement, 3N8132 Safety Shut-Off and 3N8131 Alarm
Contactor Group listed on Pages 140 & 159. Refer to Chart shown on Page 140A
for usage



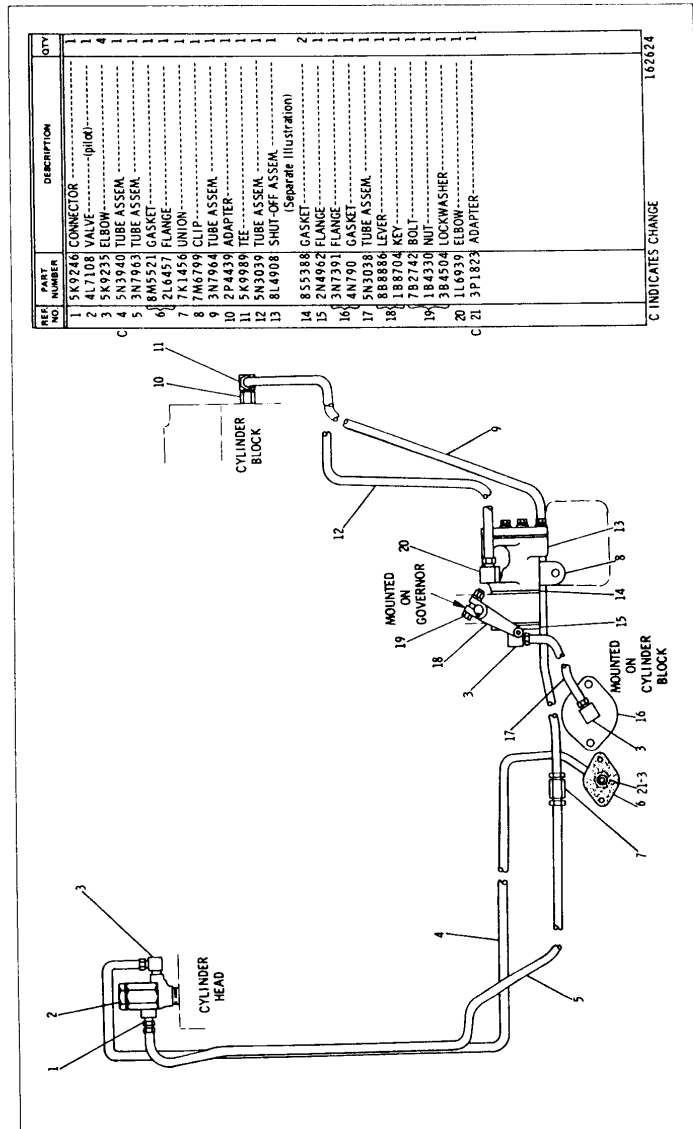
3N8150 OIL PRESSURE AND WATER TEMPERATURE SAFETY MECHANICAL SHUT-OFF GROUP
8L4908 Shut-Off parts are shown on Page 158-1. AN ATTACHMENT

5N3037 OIL PRESSURE AND WATER TEMPERATURE SAFETY MECHANICAL SHUT-OFF GROUP—Type 1
8L4908 Shut-Off parts are shown on Page 158-1. FOR USE WITH 3% GOVERNOR CONVERSION. AN ATTACHMENT

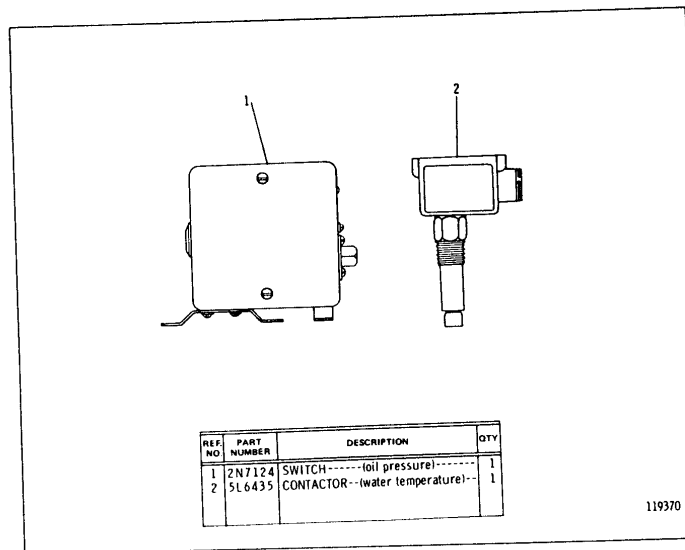
REF NO	PART NAME	DESCRIPTION	QTY
1	5K9246	CONNECTOR	1
2	4L7106	VALVE	1
3	5K9252	ELBOW	4
4	5N7665	TUBE ASSEM.	1
5	5N7663	TUBE ASSEM.	1
6	5K5521	GASKET	1
7	2L6457	FLANGE	1
8	7K1456	UNION	1
9	7M6799	CLIP	1
10	3N7964	TUBE ASSEM.	1
11	2P4439	ADAPTER	1
12	5K9989	TEE	1
13	5N3039	TUBE ASSEM.	1
14	8L4908	SHUT-OFF ASSEM. (Separate Illustration)	2
15	8S5388	GASKET	1
16	2N4962	FLANGE	1
17	3N7391	FLANGE	1
18	4N780	GASKET	1
19	5N3038	TUBE ASSEM.	1
20	888886	LEVER	1
21	188704	KEY	1
22	782742	BOLT	1
23	184350	NUT	1
24	384309	LOCKWASHER	1
25	384309	LOCKWASHER	1
26	1L594	ELBOW	1
27	5L594	BOLT	1
28	647127	LUG	1
29	9S1350	CLIP	1



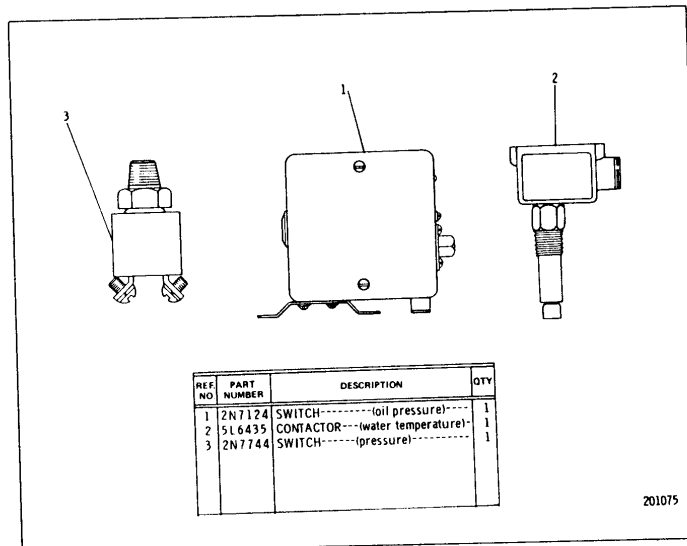
160387



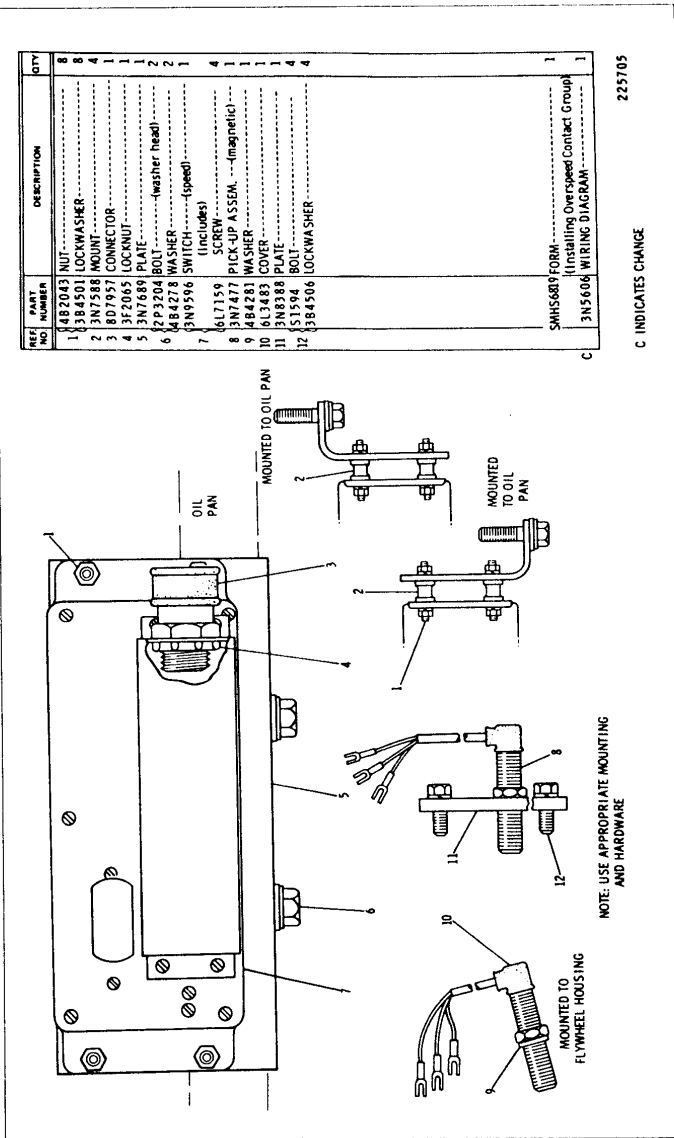
5N3037 OIL PRESSURE AND WATER TEMPERATURE SAFETY MECHANICAL SHUT-OFF GROUP—Type 2
FOR USE WITH 3 PERCENT GOVERNOR CONVERSION
8L4908 Shut-Off parts are shown on Page 158-1
AN ATTACHMENT



3N6526 CONTACTOR GROUP
Part of 3N4580 Automatic Start-Stop Arrangement listed on Page 140
Refer to Chart shown on Page 140A for usage



3N8133 CONTACTOR GROUP
Part of 3N4580 Automatic Start-Stop Arrangement listed on Page 140

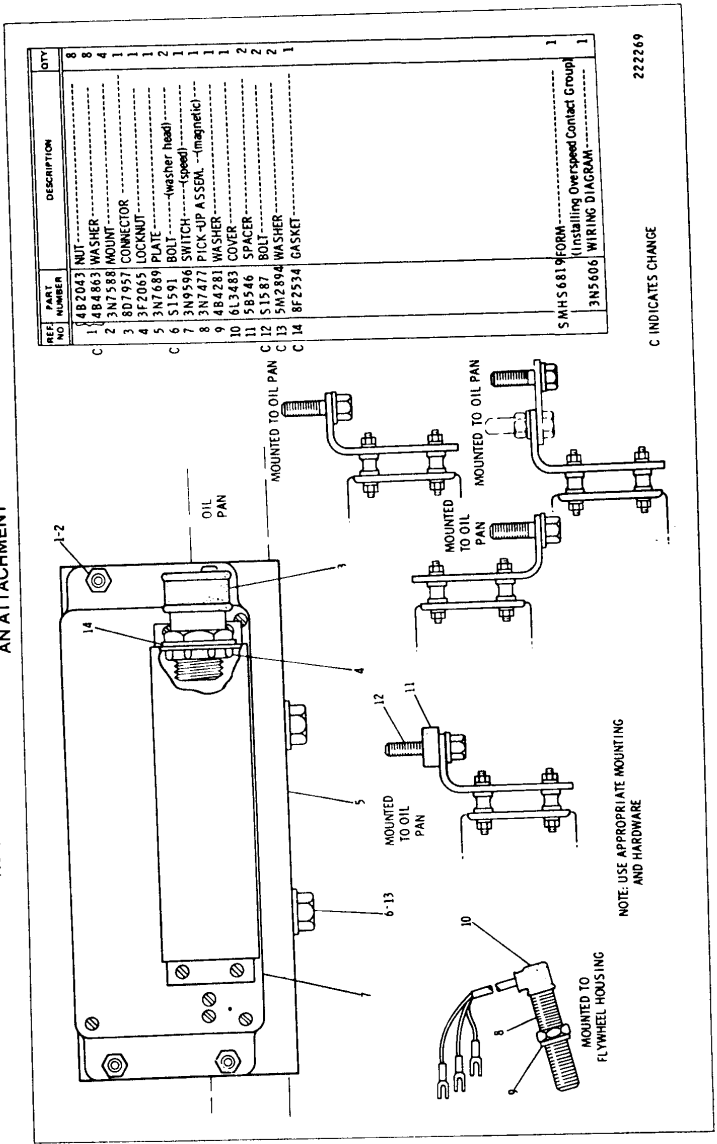


C INDICATES CHANGE

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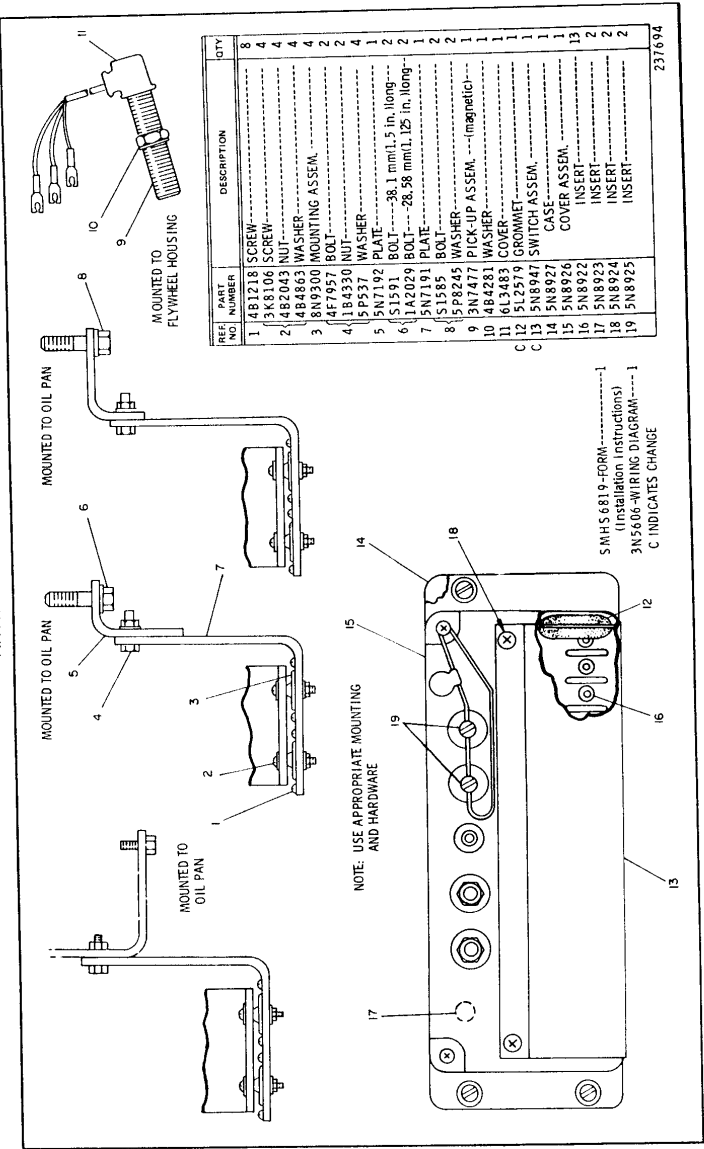
3N9595 CONTACTOR GROUP—Type 1
 Refer to Chart shown on Page 140A for usage
 Note: For Field Replacement of 3N7588 Mount order 5N8952—Page 158A-1d
 AN ATTACHMENT

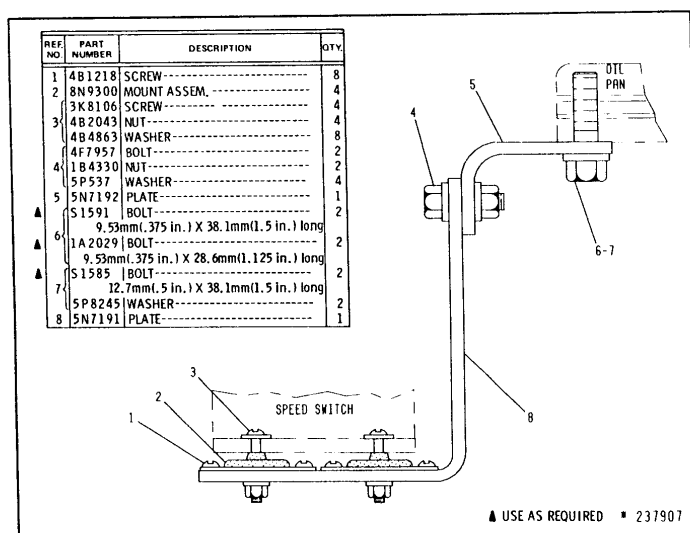
3N8955 CONTACTOR GROUP—Type 2
Refer to Chart shown on Page 140A for usage
Note: For Field Replacement of 3N7588 Mount order 5N8952—Page 158A-1d
AN ATTACHMENT



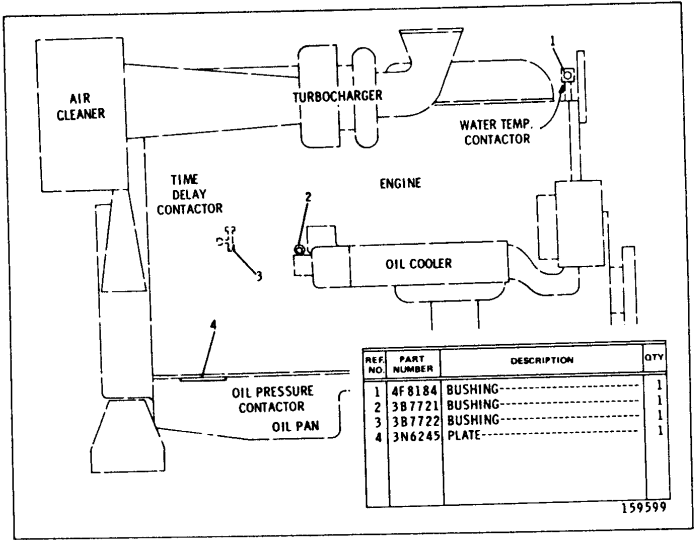


3N9595 CONTACTOR GROUP—Type 4
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT

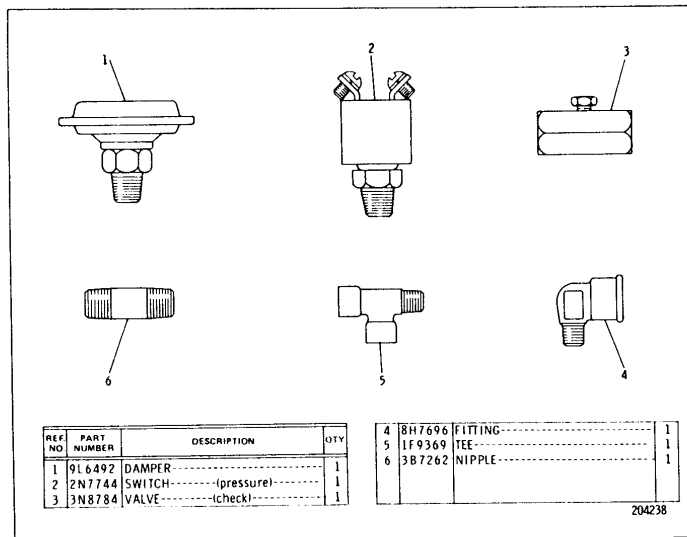




5N8952 SPEED SWITCH MOUNTING GROUP—Field Installation
 Note: Provides Field Replacement for 3N7588 Mount shown on Pages 158.01 and 158A-1a

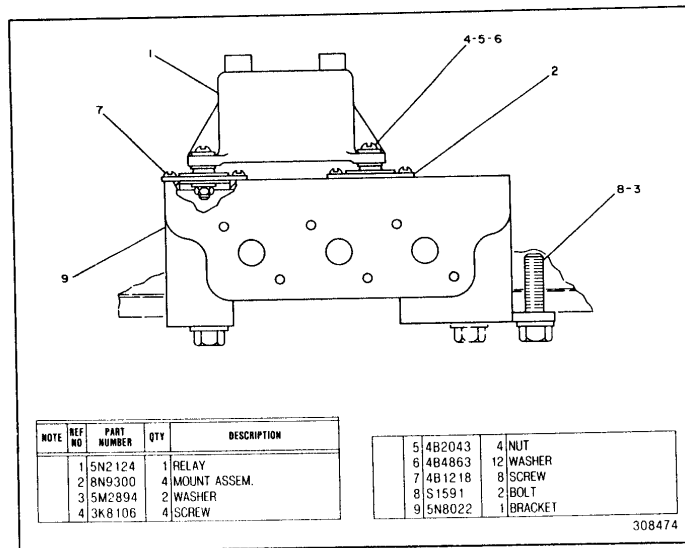


3N9653 CONTACTOR MOUNTING GROUP
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT



3N8783 TIME DELAY VALVE ASSEMBLY

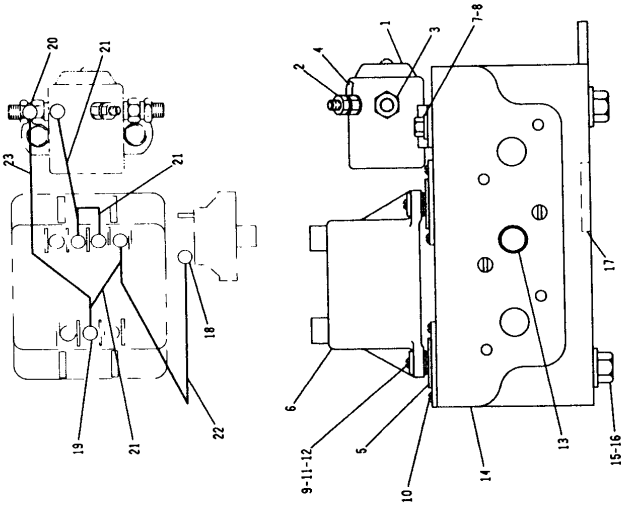
Part of 3N8132 Oil Pressure and Water Temperature Safety Shut-Off Group shown on Page 159. Refer to Chart shown on Page 140A for usage



2W3048 TIME DELAY CONTACTOR GROUP—24 or 32 Volt
AN ATTACHMENT

Consists of:				Page
1	2W6387	Time Delay Mounting Group.....		158D
12	2L8075	Terminal		
6	2L8064	Terminal		
6	2L8078	Terminal		
▲9M	5P5624	Wire		
▲3M	5P5624	Wire		
▲3M	5P5624	Wire		
▲3M	5P5624	Wire		
1	7N5946	Switch		
1	4M5317	Bushing		
▲ Sold by the meter				

2W6386 TIME DELAY CONVERSION GROUP—Field Installation
Provides a means of replacing the oil pressure time delay in the field



NOTE	QTY	QTY	DESCRIPTION
1	1	1	SWITCH ASSEM (MAGNETIC)
2	1	1	NUT
3	1	1	NUT
4	1	1	DIODE ASSEM
5	1	1	DIODE ASSEM
6	1	1	RELAY
7	1	1	RELAY
8	1	1	WASHER
9	1	1	WASHER
10	1	1	WASHER
11	1	1	WASHER
12	1	1	WASHER
13	1	1	WASHER
14	1	1	WASHER
15	1	1	WASHER
16	1	1	WASHER
17	1	1	WASHER
18	1	1	WASHER
19	1	1	WASHER
20	1	1	WASHER
21	1	1	WASHER
22	1	1	WASHER

BUSE AS REQUIRED
D-ORDER BY THE METER ■ 307847

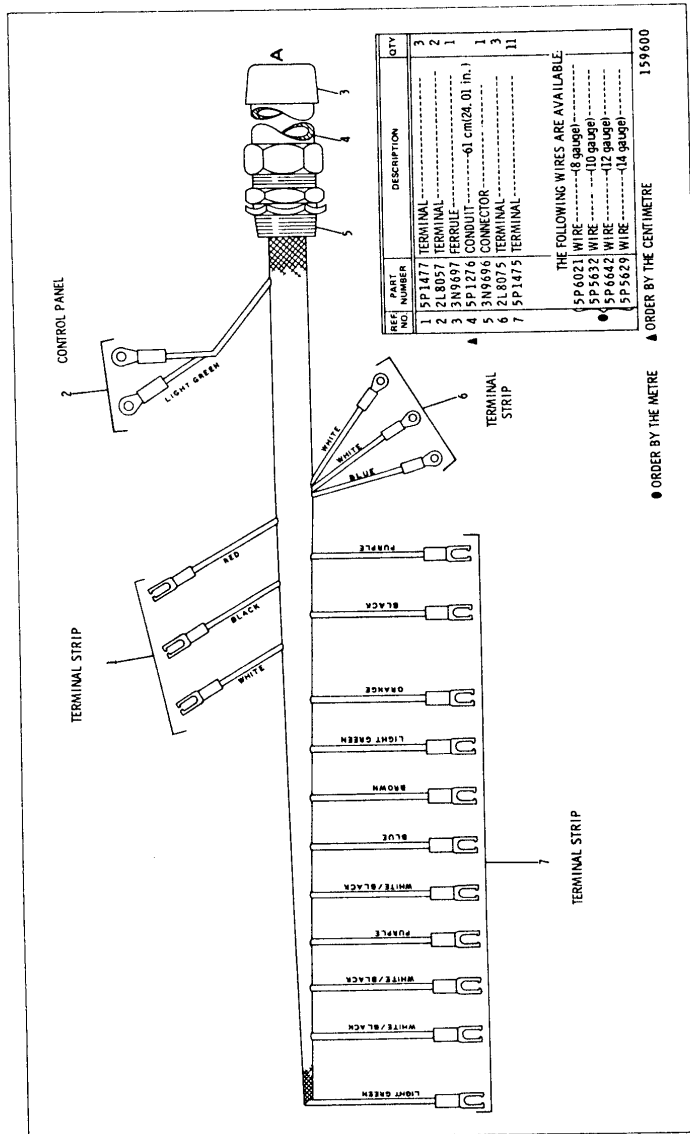
2W6387 TIME DELAY MOUNTING GROUP—Field Installation
Part of 2W6386 Time Delay Conversion

CONSISTS OF:		PAGE
1	3N4585 CONTACTOR MOUNTING GROUP.....	158
1	3N6867 OIL PRESSURE AND WATER TEMPERATURE CONTACTOR GROUP.....	160
1	3N8783 VALVE ASSEMBLY--TIME DELAY.....	158B
	- OR -	
1	5N3014 TIME DELAY SWITCH	
1	3B7722 BUSHING	
1	 WIRING DIAGRAM	
1	4L1192 WIRING GROUP	
CONSISTING OF:		
6	2L8065 TERMINAL (No. 8 SCREW)	
4	2L8074 TERMINAL (No. 6 SCREW)	
21	2L8075 TERMINAL (No. 8 SCREW)	
2	2L8079 TERMINAL (3/8" SCREW)	
2	2L8081 TERMINAL (1/2" SCREW)	
4	2L9724 CLIP	
50	8L8413 TIE	
	4S8787 WIRE (No. 14)--40'	
2	8S4626 SPLICE--WIRE	

3N8132 OIL PRESSURE AND WATER TEMPERATURE SAFETY SHUT-OFF GROUP
FOR USE WITH RACK SOLENOID
AN ATTACHMENT

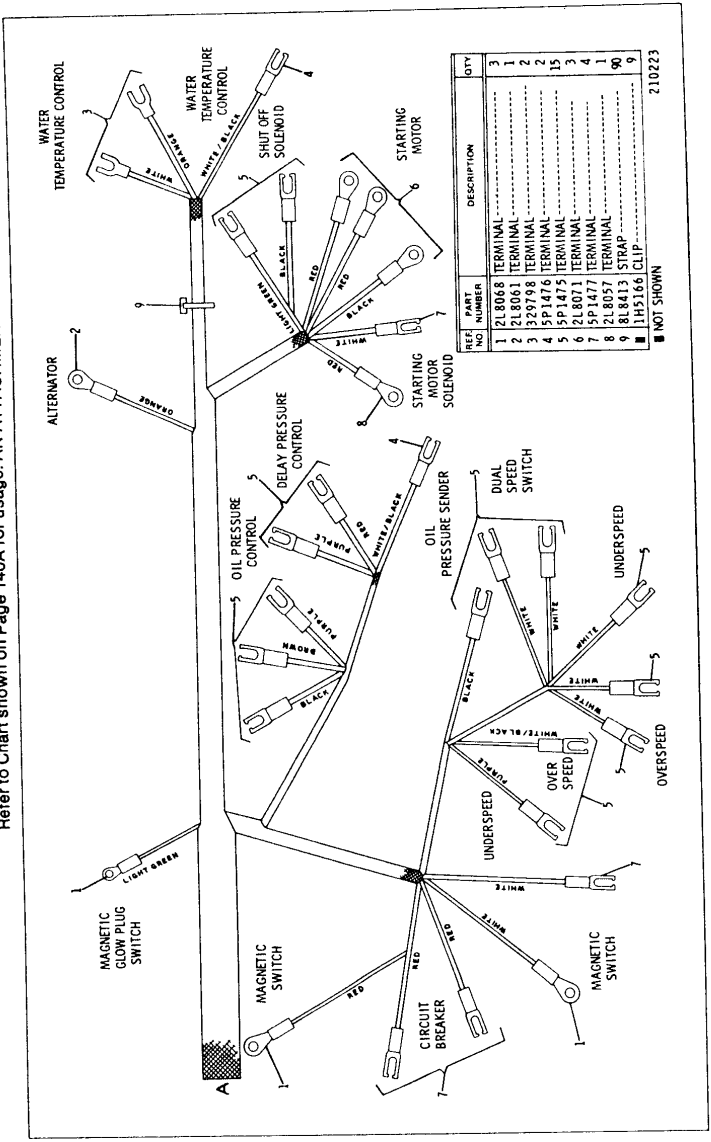
CONSISTS OF:		PAGE
1	3N4585 CONTACTOR MOUNTING GROUP.....	158
1	3N6867 OIL PRESSURE AND WATER TEMPERATURE CONTACTOR GROUP.....	160
1	 WIRING DIAGRAM	

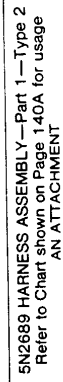
3N8131 ALARM CONTACTOR GROUP
AN ATTACHMENT



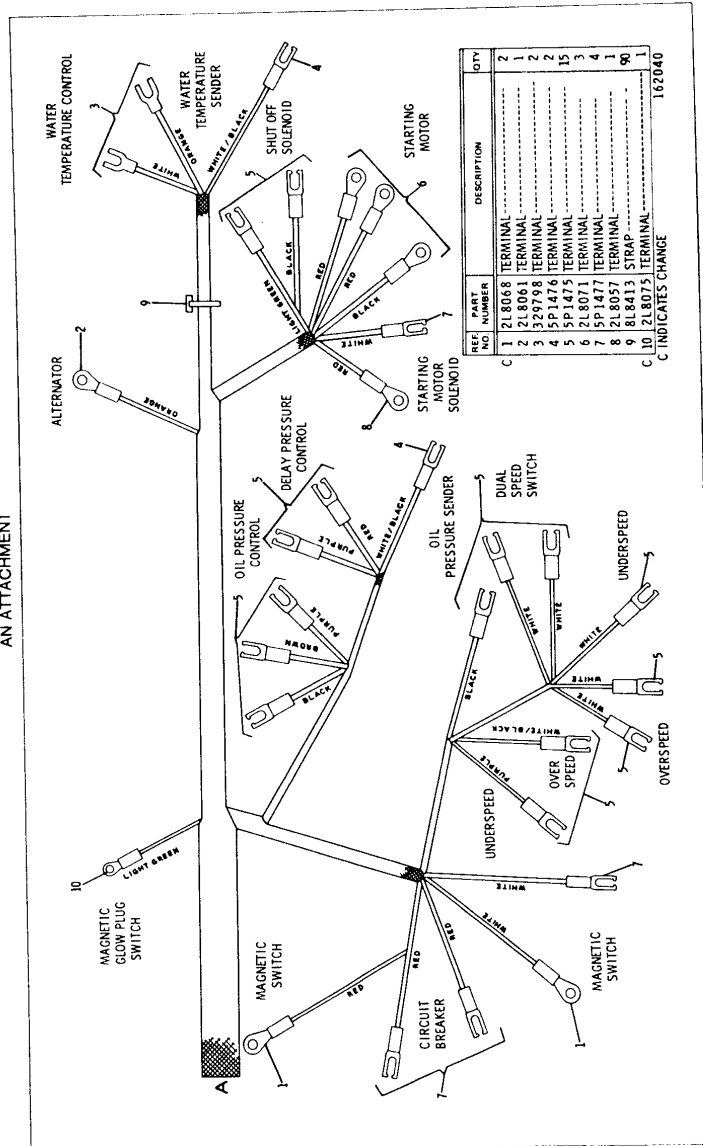
5N2889 HARNESS ASSEMBLY—Part 1—Type 1
Refer to Chart shown on Page 140A for usage. AN ATTACHMENT

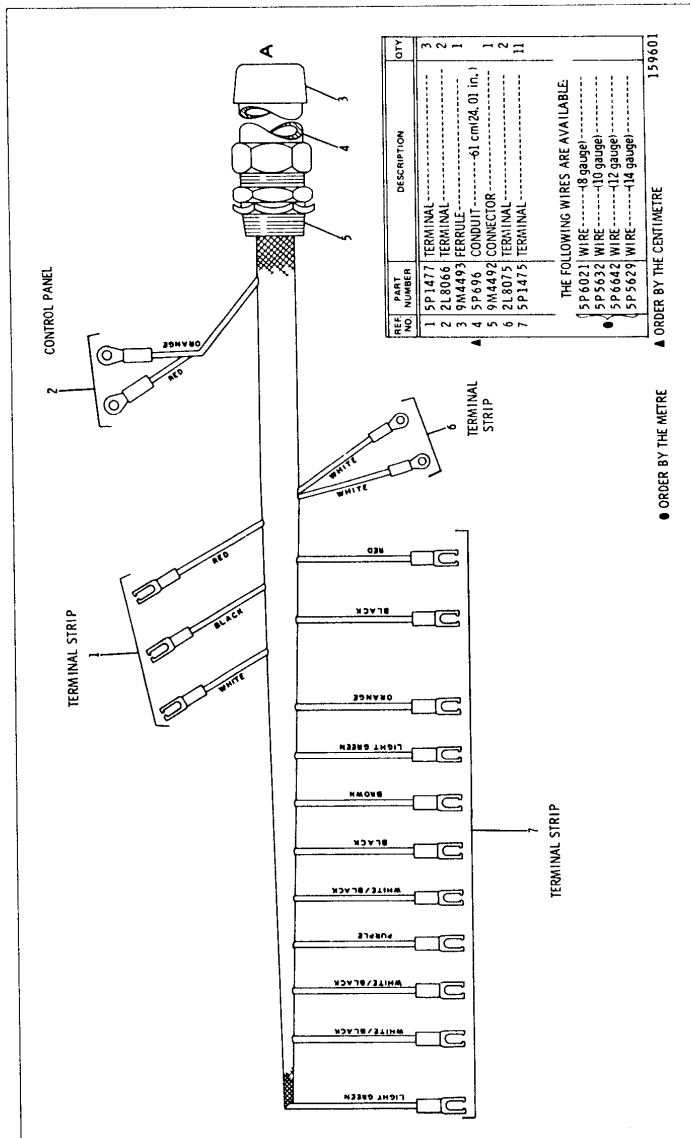
5N2689 HARNESS ASSEMBLY—Part 2—Type 1
Refer to Chart shown on Page 140A for usage. AN ATTACHMENT





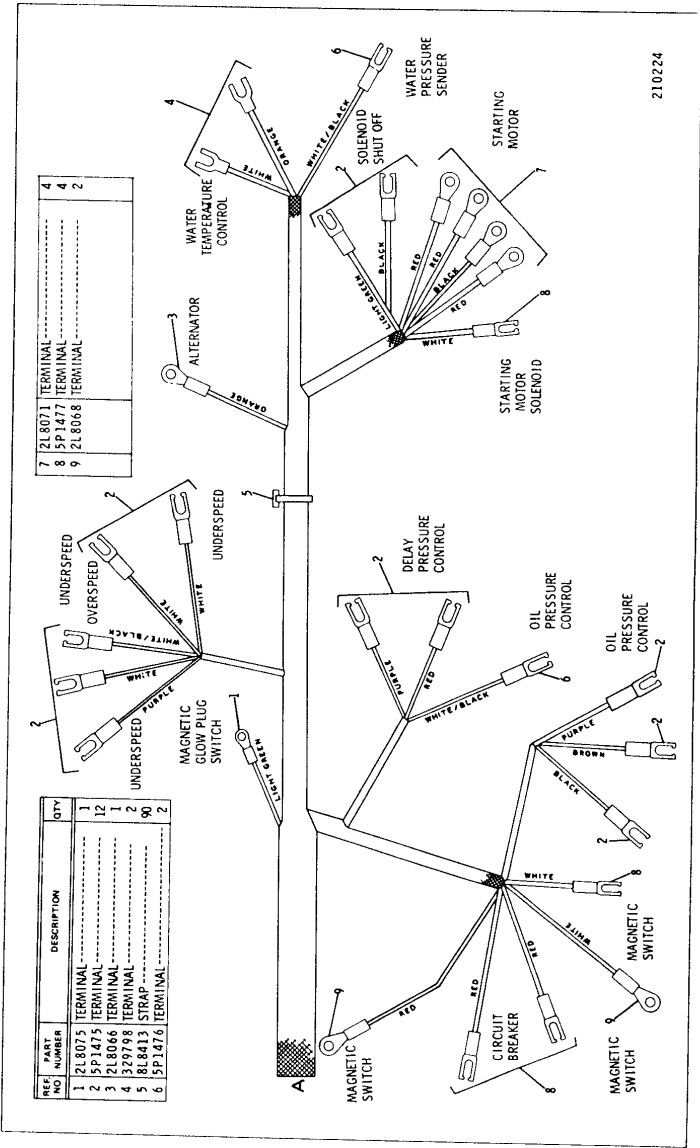
5N2689 HARNESS ASSEMBLY—Part 2—Type 2
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT



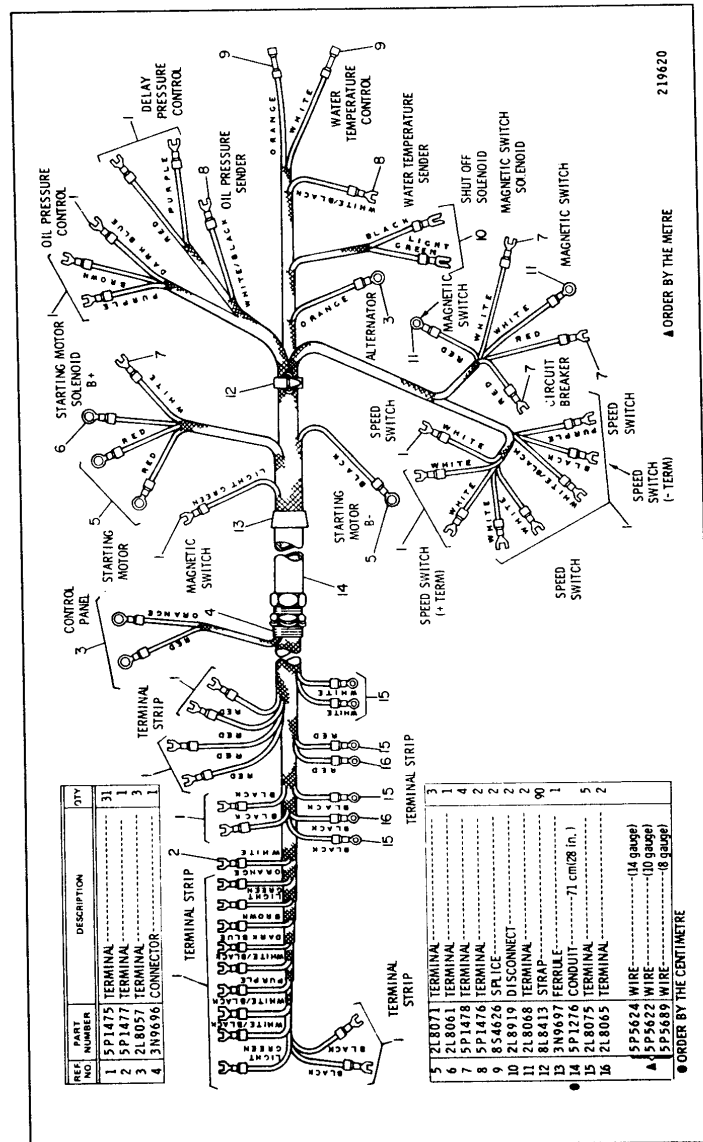


5N2875 HARNESS ASSEMBLY—Part 1
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT

5N2875 HARNESS ASSEMBLY—Part 2
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT



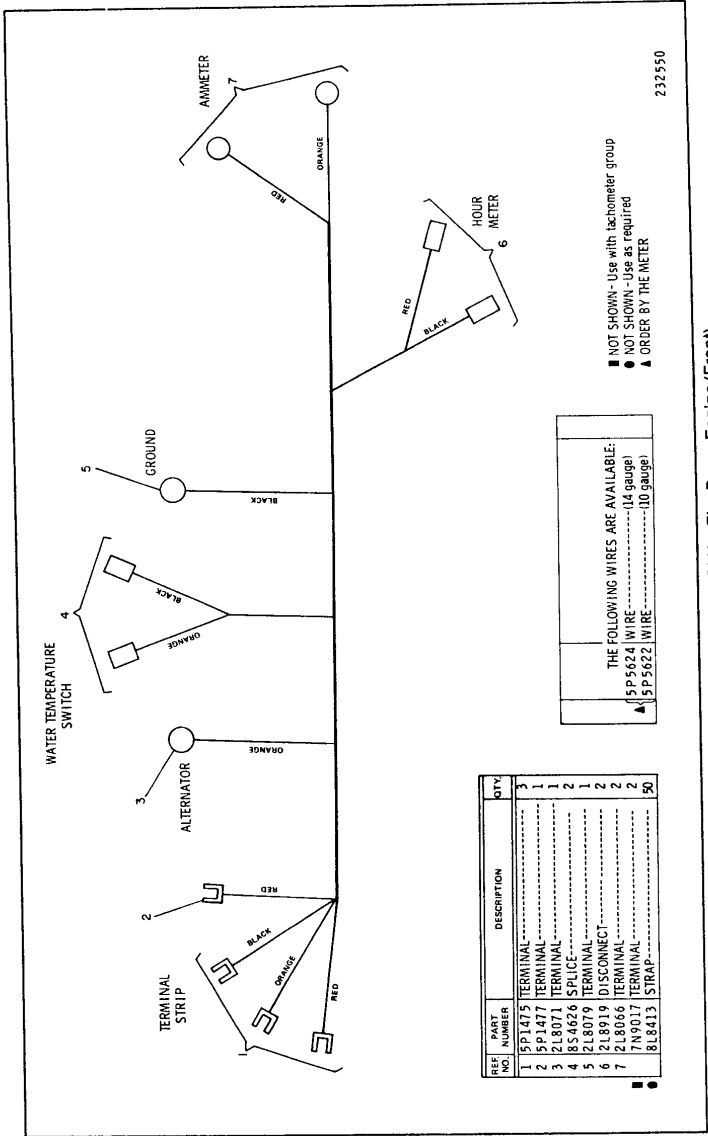
210224



SN2360 HARNESS ASSEMBLY — Packaged Generator Set
For usage refer to 3N6600 Chart shown on Page 140A.1
AN ATTACHMENT

[illegible]

B-USE AS REQUIRED

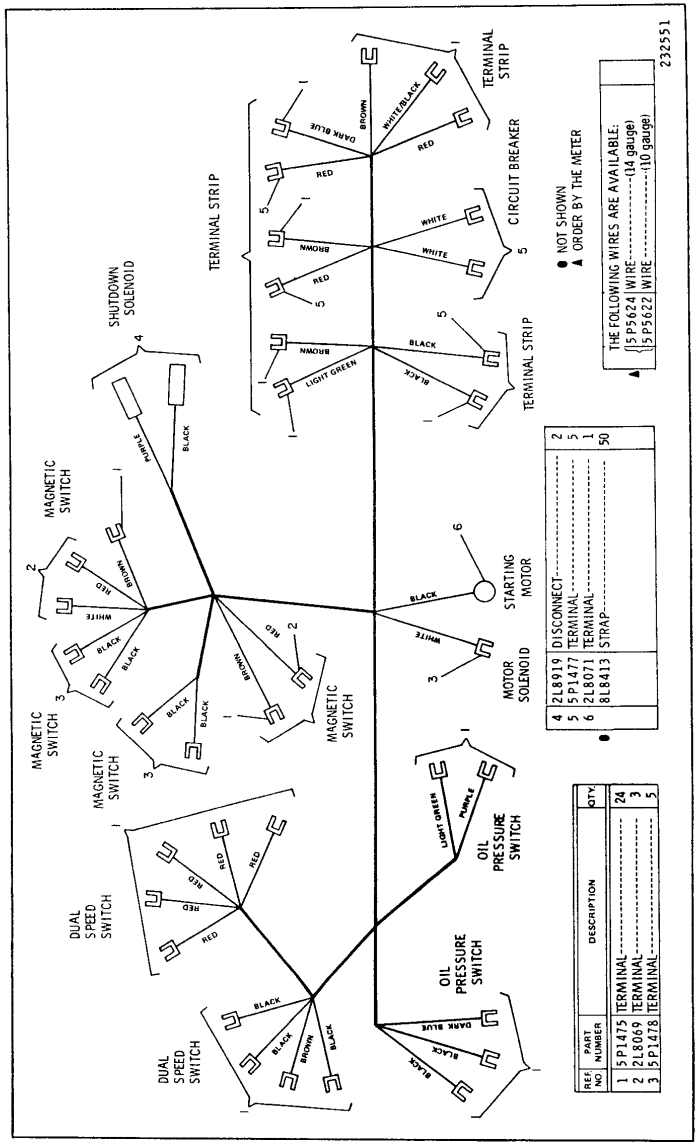


REF	PART NUMBER	DESCRIPTION	QTY
1	5P1475	TERMINAL	3
2	5P1477	TERMINAL	1
3	218071	TERMINAL	1
4	854626	SPLICE	2
5	218079	TERMINAL	1
6	218919	DISCONNECT	2
7	218066	TERMINAL	2
8	7N9017	TERMINAL	2
9	818413	STRAP	90

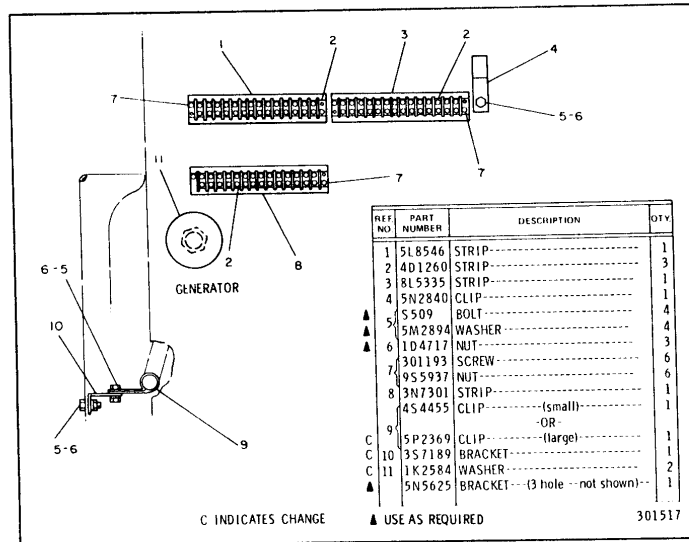
5N7116 HARNESS ASSEMBLY—Fire Pump Engine (Front)
AN ATTACHMENT

232550

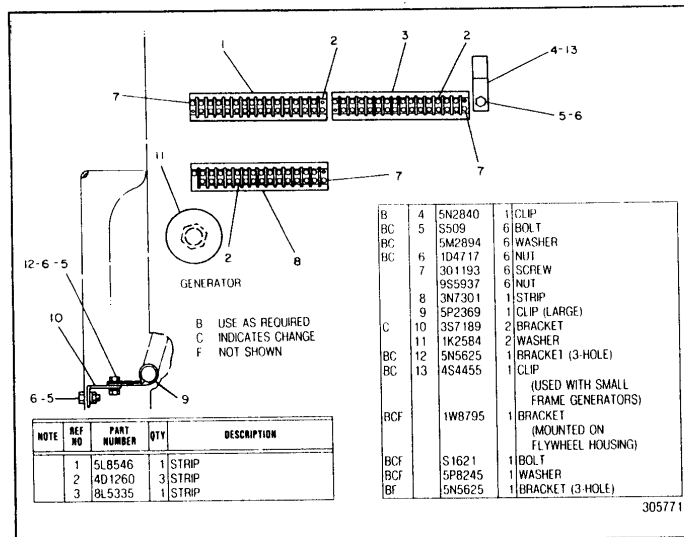
5N7117 HARNESS ASSEMBLY—Fire Pump Engine (Rear)
AN ATTACHMENT



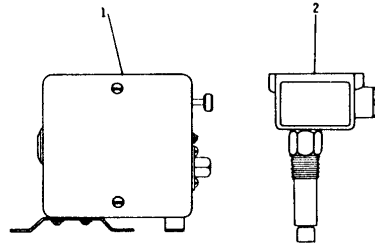
232551



5N5576 ELECTRICAL CONNECTION GROUP—Type 1
For usage refer to 3N6600 Chart shown on Page 140A.01. AN ATTACHMENT



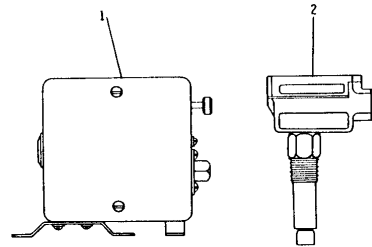
5N5576 ELECTRICAL CONNECTION GROUP—Type 2
For usage refer to 3N6600 Chart shown on Page 140A.01. AN ATTACHMENT



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	2N6955	SWITCH------(pressure)-----	1
2	5L6435	CONTACTOR--(water temperature)--	1

119084

3N6867 OIL PRESSURE AND WATER TEMPERATURE CONTACTOR GROUP
Also part of 3N8132 Safety Shut-Off and 3N8131 Alarm Contactor Groups listed on
Page 159. AN ATTACHMENT

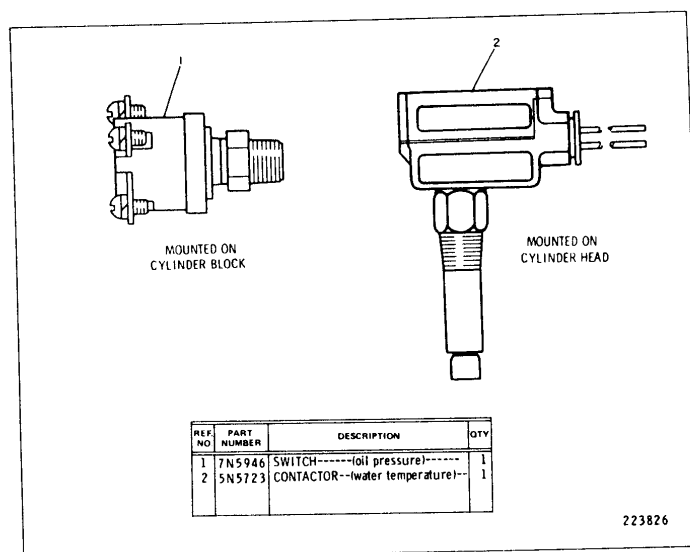


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	2N6955	SWITCH------(pressure)-----	1
C 2	5N8598	CONTACTOR--(water temperature)--	1

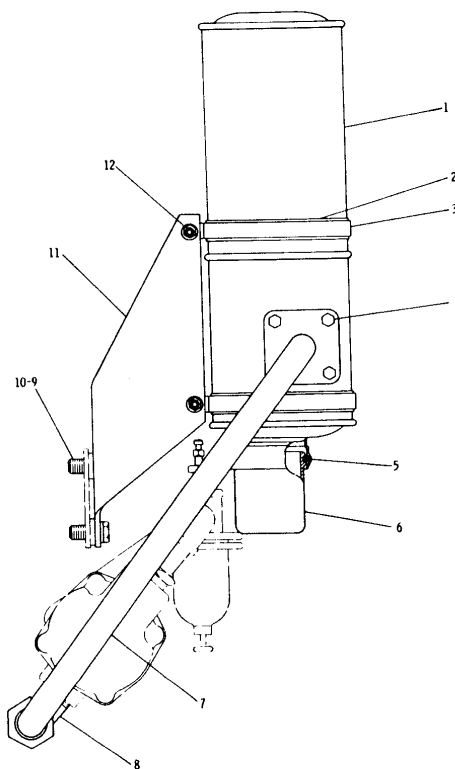
C INDICATES CHANGE

237698

5N5724 OIL PRESSURE AND WATER TEMPERATURE CONTACTOR GROUP
With Short Probe. AN ATTACHMENT



5N5725 OIL PRESSURE AND WATER TEMPERATURE CONTACTOR GROUP
For usage refer to 3N6600 Chart shown on Page 140A.01. AN ATTACHMENT

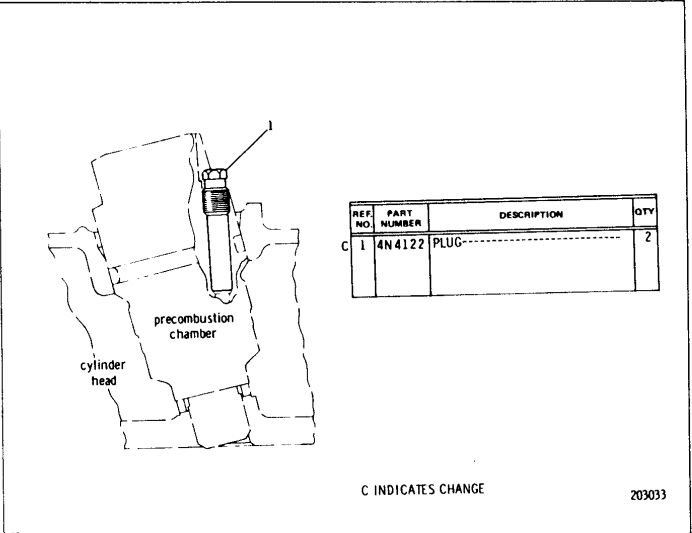


REF NO	PART NUMBER	DESCRIPTION	QTY
1	1H4725	SILENCER-----	1
2	8F3273	LINING-----	2
3	2L3658	STRAP-----	2
4	2P3201	BOLT-----	4
5	7H2444	SEAL-----	1
6	5F6658	JAR-----	1
7	4N8108	TUBE ASSEM-----	1
8	1H4768	SEAL-----	1
9	6K3458	ELBOW-----	1
	51566	BOLT-----	2
	4B4281	WASHER-----	2

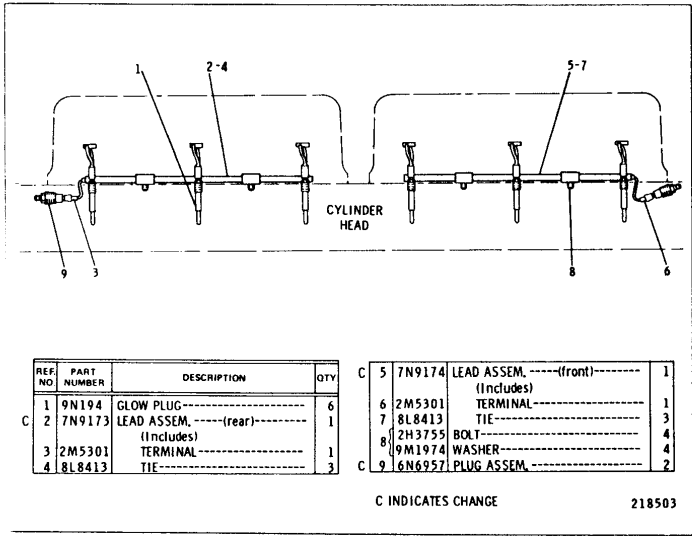
10	L2119	WASHER-----use as required-----	2
11	4N8106	BRACKET-----	1
	2P3206	BOLT-----	2
	1H767	SPACER-----	2
12	2P3261	NUT-----	2
	4B4278	WASHER-----	2

119262

4N8110 STARTING AIR SILENCER GROUP
AN ATTACHMENT

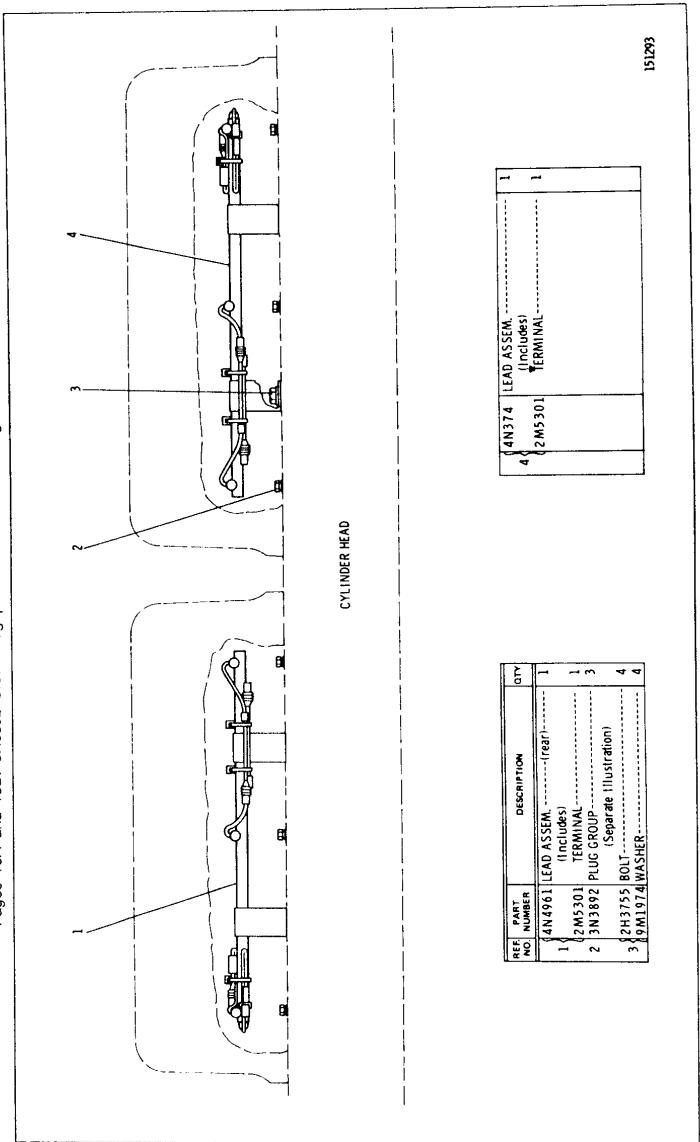


3N3892 GLOW PLUG GROUP--3 Required
Serial No. 90U1 to 90U316 inclusive. Part of 4N4238, 4N6191, 6N460, 6N458 and 6N459 Engine Procurement Arrangements listed on Pages 13, 16, 16A and 16B
Part of 6N2012 Glow Plug Group shown on Page 162A



9N688 GLOW PLUG GROUP
AN ATTACHMENT

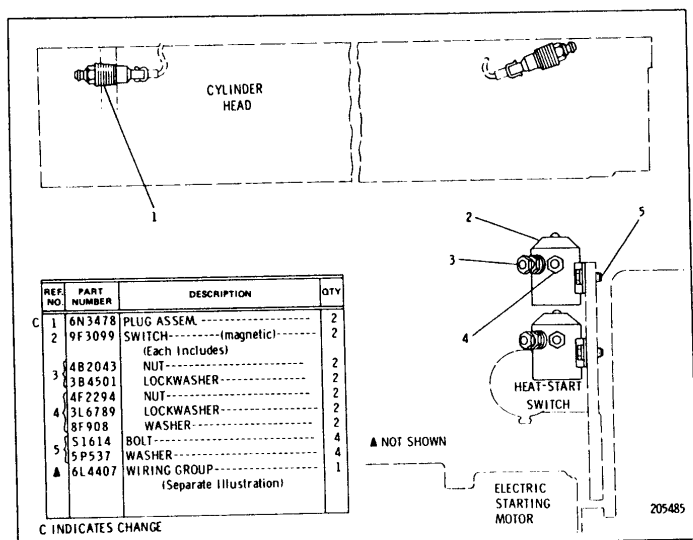
6N2012 DUMMY GLOW PLUG GROUP
Serial No. 90U317—Up. Part of 6N460, 6N458 and 6N459 Engine Procurement Arrangements listed on
Pages 16A and 16B. 3N3892 Glow Plug parts are shown on Page 162. AN ATTACHMENT



REF	PART NUMBER	DESCRIPTION	QTY
1	4N4961	LEAD ASSEM. (Includes)	1
2	2M5301	TERMINAL	1
3	3N3892	PLUG GROUP (Separate Illustration)	3
4	2H3755	BOLT	4
5	3M1974	WASHER	4

4N374	LEAD ASSEM. (Includes)	1
2M5301	TERMINAL	1

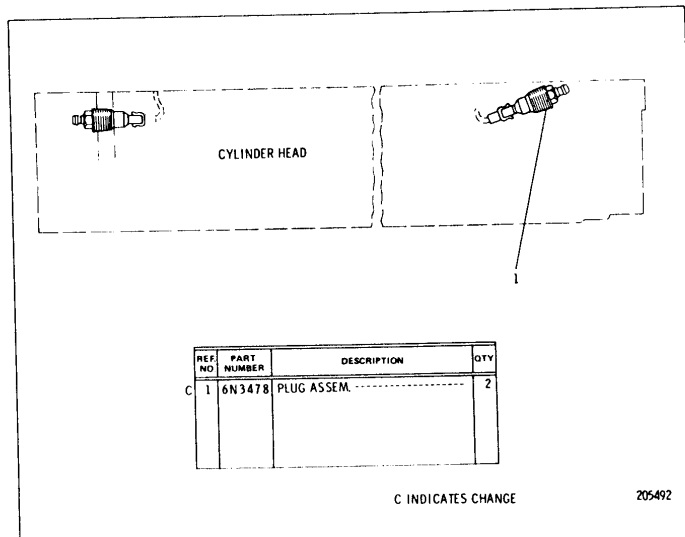
151293



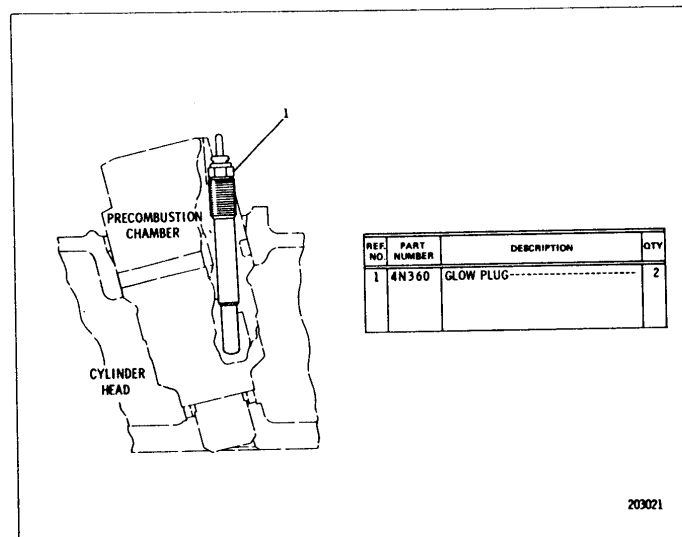
6N2040 GLOW PLUG MOUNTING GROUP
Serial No. 90U317—Up. AN ATTACHMENT

Consists of:	
	5P2759 Wire—30 DM
	6A3353 Wire—24 DM
	6A3626 Wire—30 DM
1	2L8049 Terminal (No. 10 Screw)
1	2L8051 Terminal (5/16" Screw)
1	2L8052 Terminal (3/8" Screw)
3	2L8054 Terminal (1/2" Screw) (Used with No. 6 Wire)
4	2L8066 Terminal (No. 10 Screw) (Used with No. 10 Wire)
2	2L8076 Terminal (No. 10 Screw) (Used with No. 14 Wire)
1	9F8292 Connector (1.75" Long)
1	9F8294 Connector (1.50" Long)
5	2L9724 Clip (2.50" Long)
4	8L8413 Tie (5.50" Long)
1	3S2093 Tie (7.31" Long)
1	2S1043 Butt—Insulated
1	3N5681 Tie—Cable (Clip of 50)
4	6N2569 Terminal

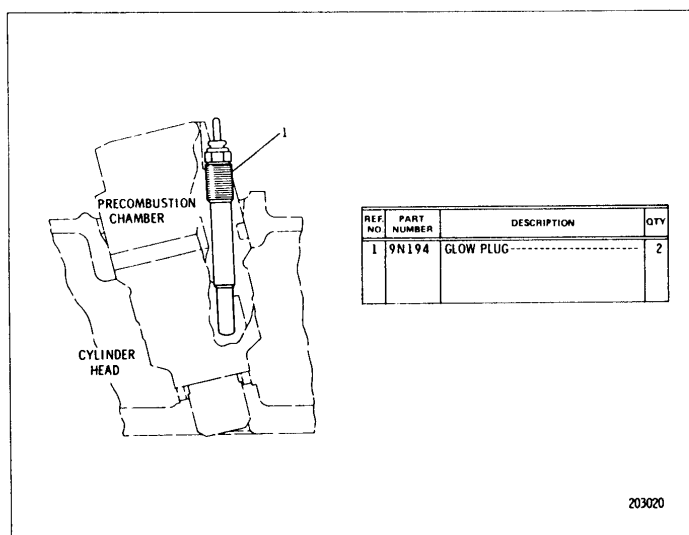
6L4407 WIRING KIT GROUP
Serial No. 90U317—Up
Part of 6N2040 Glow Plug Mounting Group



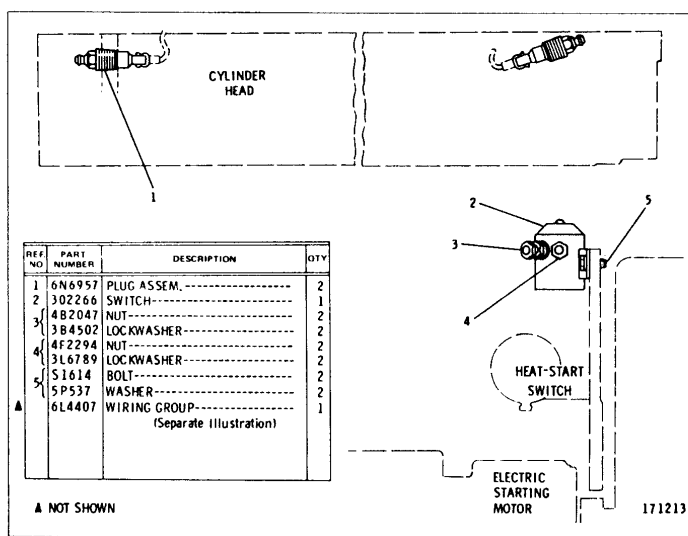
6N2041 GLOW PLUG MOUNTING GROUP—Replaced by 6N2040—Page 162B
Serial No. 90U317—Up. AN ATTACHMENT



6N1058 GLOW PLUG GROUP—24 Volt—3 Required
Serial No. 90U317—Up
AN ATTACHMENT

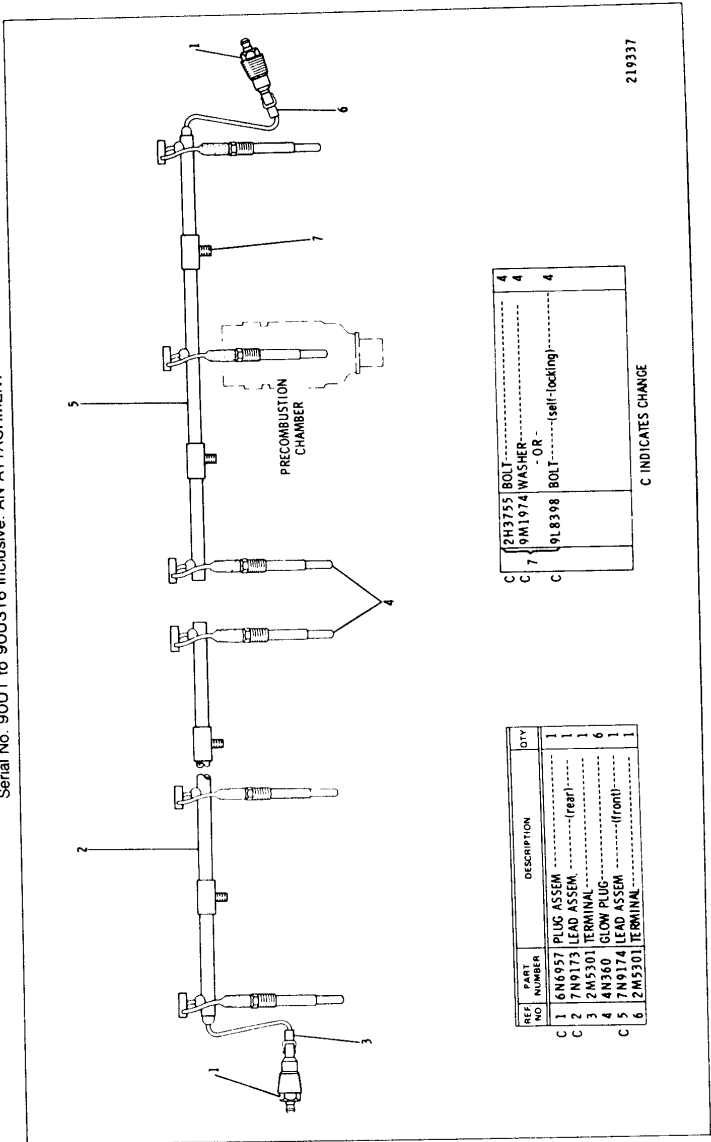


6N981 GLOW PLUG GROUP—12 Volt—3 Required
Serial No. 90U317—Up. AN ATTACHMENT



7N8321 GLOW PLUG MOUNTING GROUP—12 Volt System
6L4407 Wiring Kit parts are shown on Page 162B
AN ATTACHMENT

4N1395 GLOW PLUG GROUP
Serial No. 90U1 to 90U316 inclusive. AN ATTACHMENT



CONSISTS OF:

PAGE

1	5S6698	ALTERNATOR GROUP	166
1	8M7892	GAUGE--AMMETER	
1	.....	WIRING DIAGRAM	

4N8364 ALTERNATOR GROUP—12 Volt, 75 Ampere
 FOR USE WITH 4N8365 ALTERNATOR MOUNTING GROUP SHOWN ON PAGES 170B
 & 171. CANNOT BE USED WITH FRONT POWER TAKE-OFF. AN ATTACHMENT

CONSISTS OF:

PAGE

1	5S9088	ALTERNATOR GROUP	168
1	.....	WIRING DIAGRAM--INSULATED SYSTEM	
1	.....	WIRING DIAGRAM--GROUNDED SYSTEM	

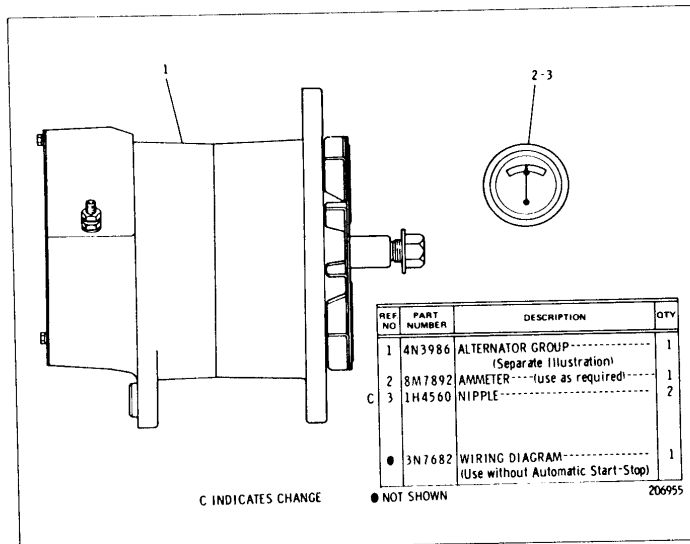
4N7078 ALTERNATOR GROUP—24 Volt, 50 Ampere
 Replaced by 4N6300 shown on Page 164-3. FOR USE WITH 4N8365 ALTERNATOR
 MOUNTING GROUP SHOWN ON PAGES 170B & 171. AN ATTACHMENT

CONSISTS OF:

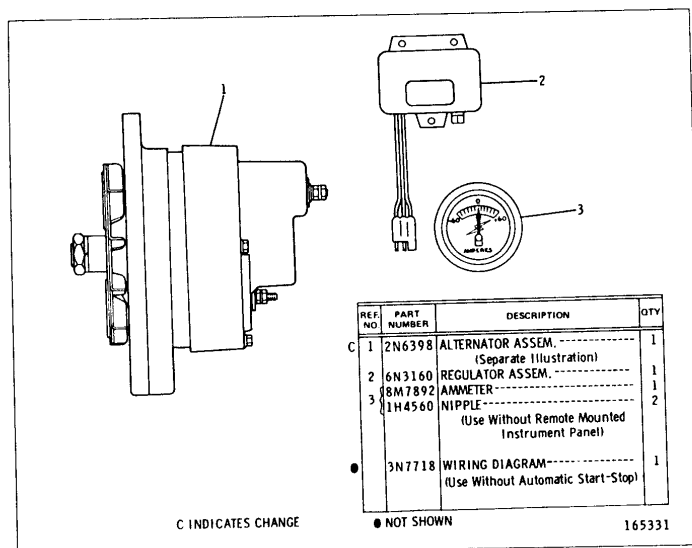
PAGE

- 1 4N3986 ALTERNATOR GROUP 164-2
- 1 PRINT OF WIRING DIAGRAM

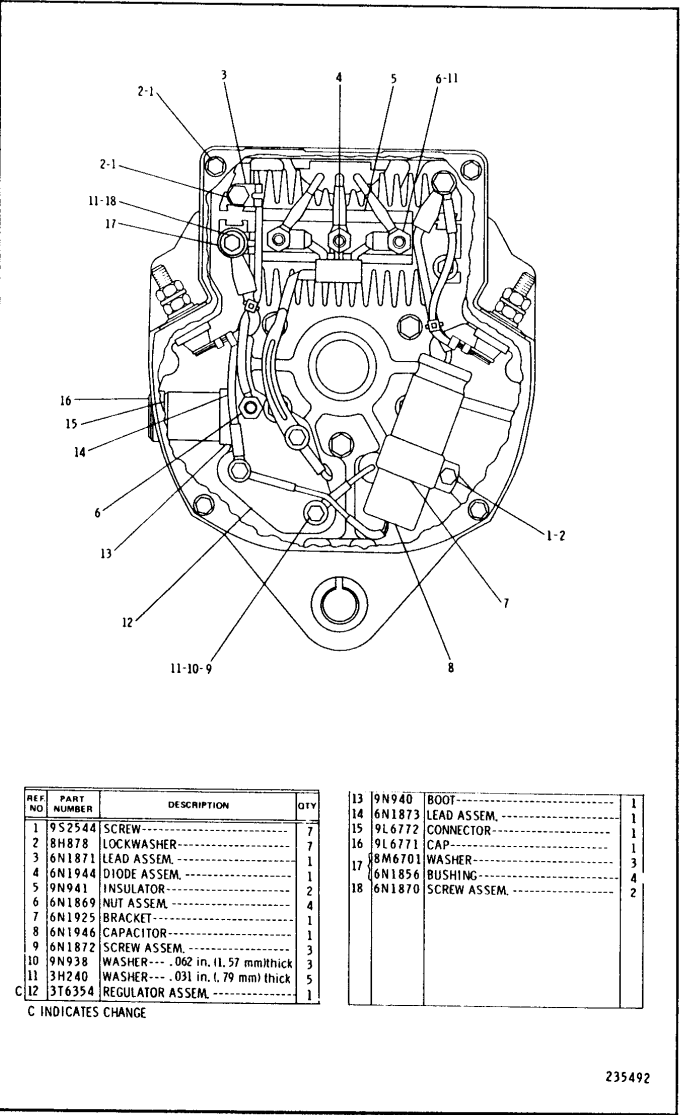
4N6300 ALTERNATOR GROUP—24 Volt, 60 Ampere



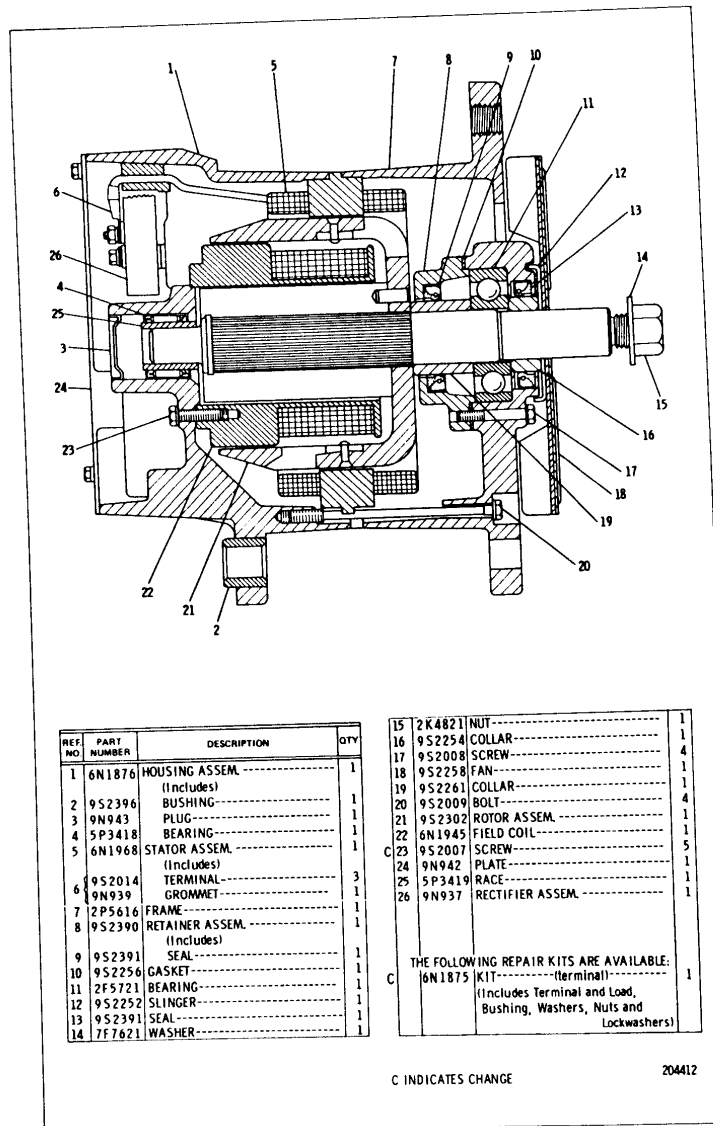
3N7683 ALTERNATOR GROUP—24 Volt, 60 Ampere
 FOR USE WITH 4N8365 & 6N7141 ALTERNATOR MOUNTING GROUPS SHOWN ON
 PAGES 170B, 171, 171A & 171B. 4N3986 Alternator parts are shown on Page 164-2
 & 164-3. AN ATTACHMENT



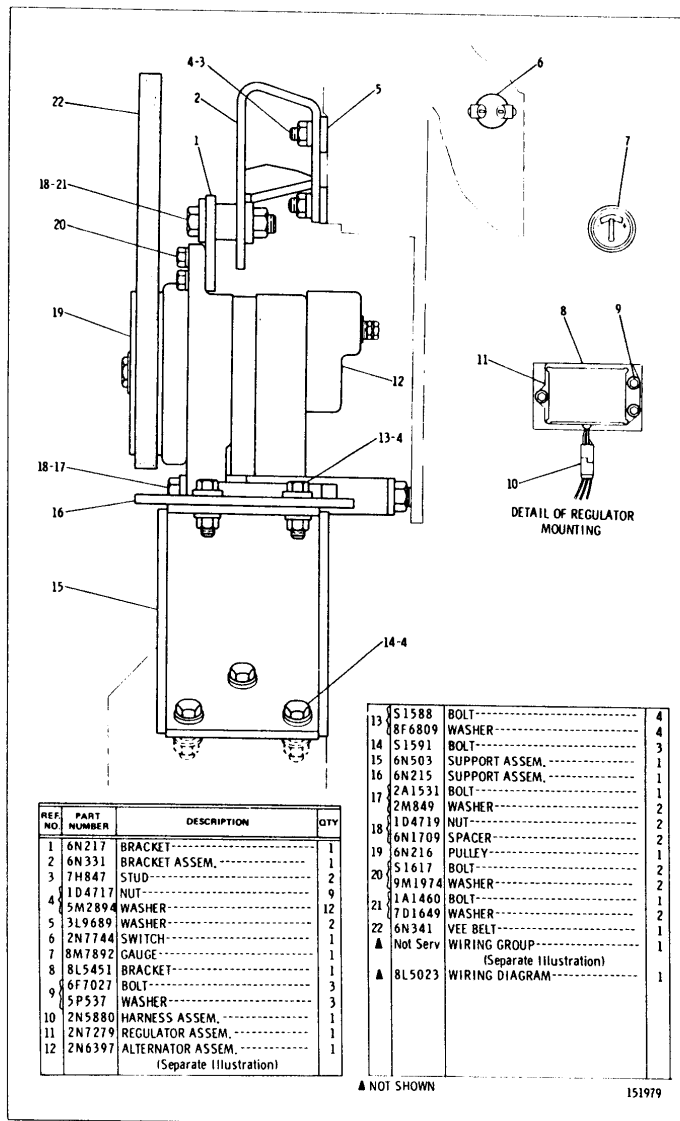
3N5680 ALTERNATOR GROUP—24 Volt, 35 Ampere
 FOR USE WITH 8N1689, 8N1291 AND 8N1636 ALTERNATOR MOUNTING GROUPS
 SHOWN ON PAGES 171C, 171D & 171F. 2N6398 Alternator parts are shown on
 Page 164B. AN ATTACHMENT



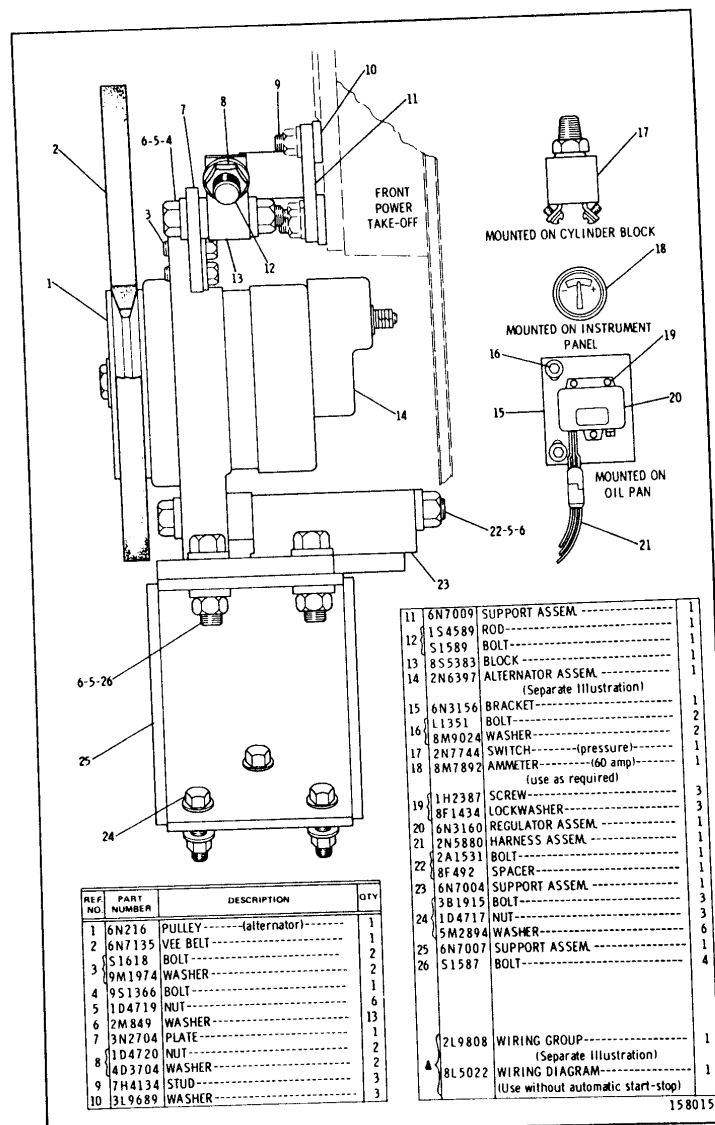
4N3986 ALTERNATOR GROUP—24 Volt, 60 Ampere—End View
Part of 4N6300 and 3N7683 Alternator Group shown on Page 164-1



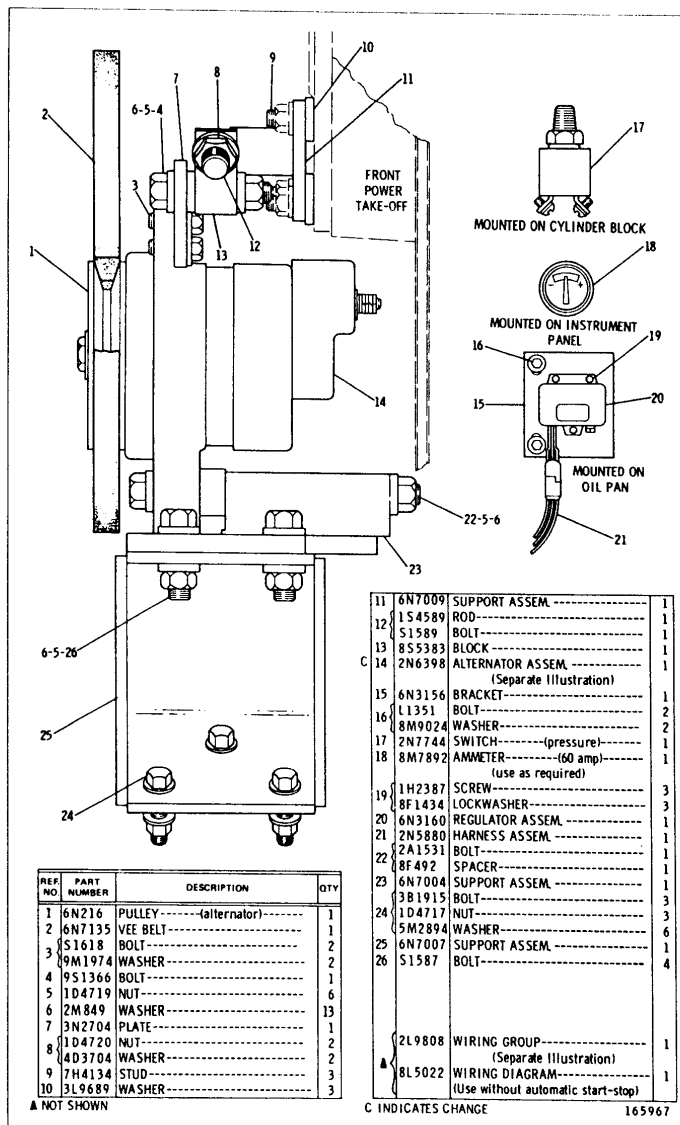
4N3986 ALTERNATOR GROUP—24 Volt, 60 Ampere—Side View
Part of 4N6300 & 3N7683 Alternator Groups shown on Page 164-1



6N589 ALTERNATOR GROUP—24 Volt, 35 Ampere
 Replaced by 6N7140 shown on Pages 164-5, 164-6 & 164-7
 2N6397 Alternator and Wiring Kit parts are shown on Pages 170 and 172
 FOR USE WITH FRONT POWER TAKE-OFF. AN ATTACHMENT



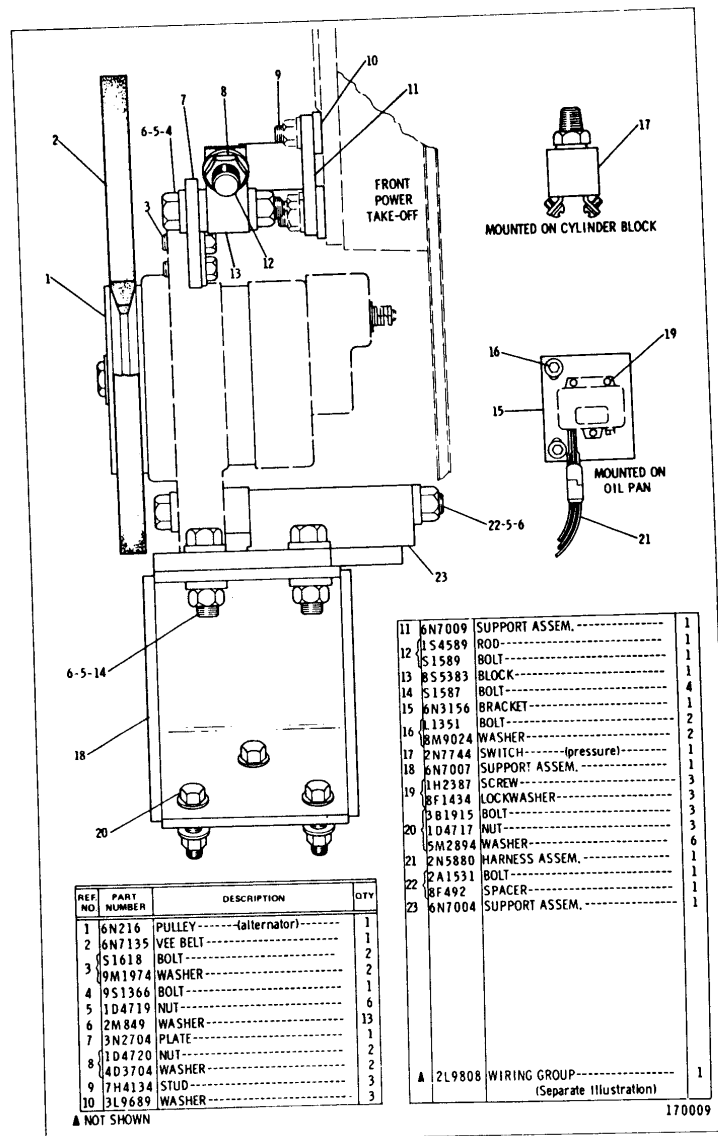
6N7140 ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 1
 2N6397 Alternator and 2L9808 Wiring parts are shown on Pages 170 & 172
 FOR USE WITH FRONT POWER TAKE-OFF. AN ATTACHMENT



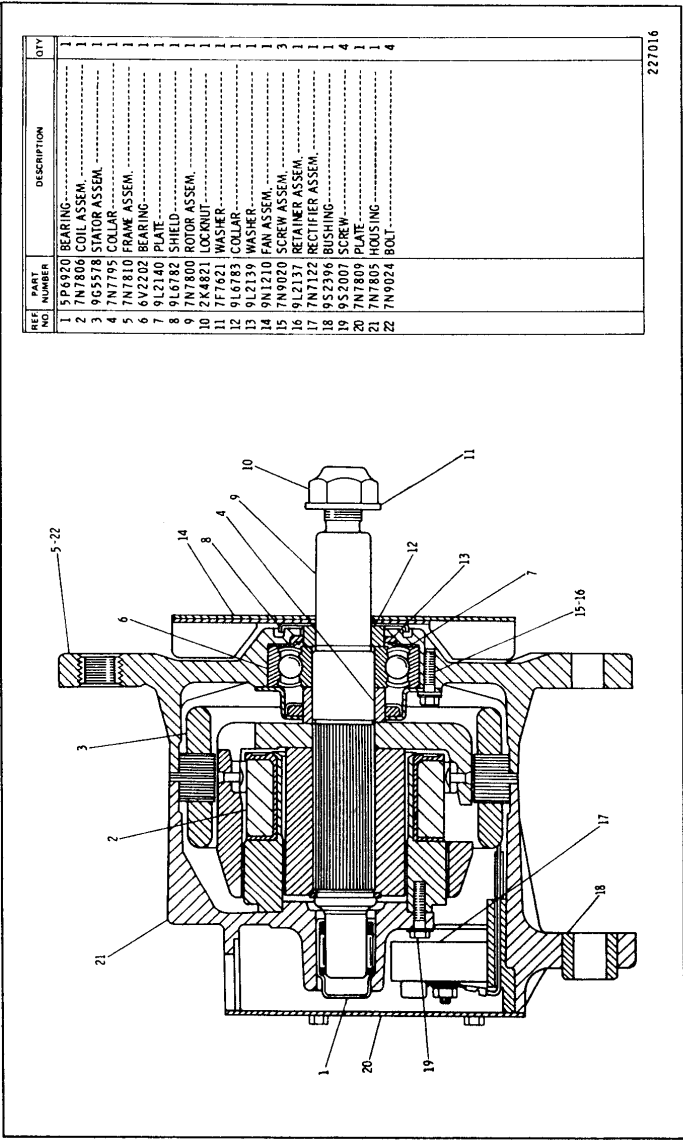
6N7140 ALTERNATOR GROUP—24 Volt—35 Ampere—Type 2

Replaced by 8N1636 shown on Page 171F

2N6398 Alternator and 2L9808 Wiring parts are shown on Pages 164B and 172
AN ATTACHMENT



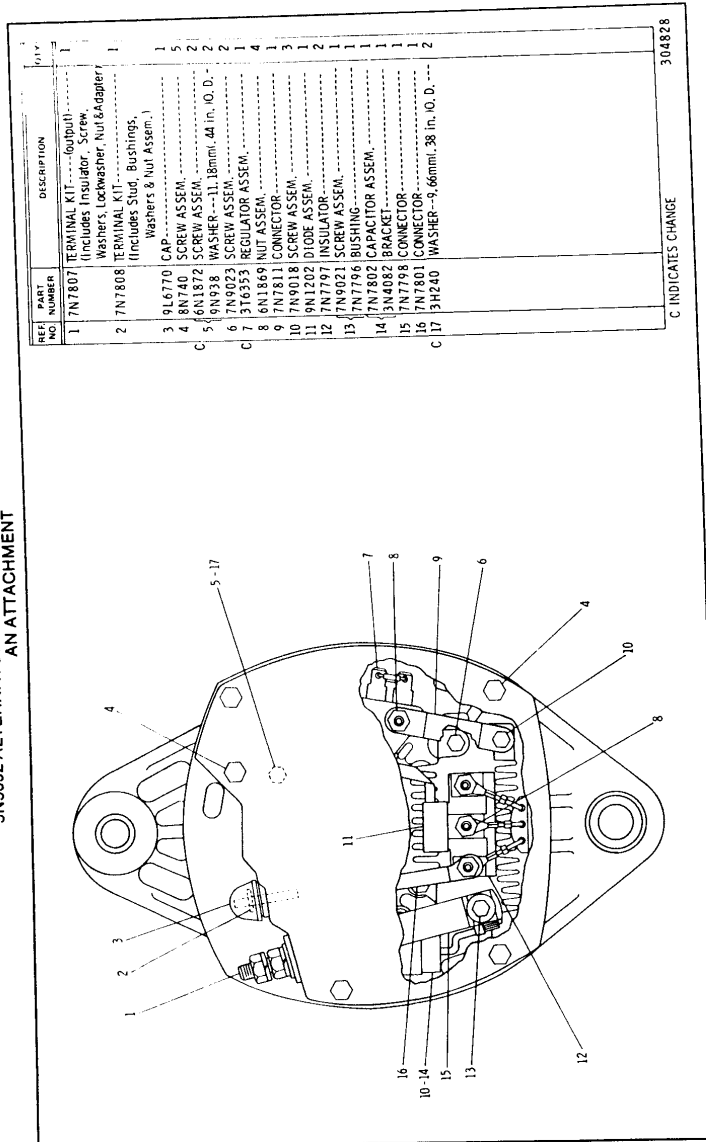
6N7140 ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 3
 Replaced by 8N1636 shown on Page 171F
 2L9808 Wiring parts are shown on Page 172
 AN ATTACHMENT

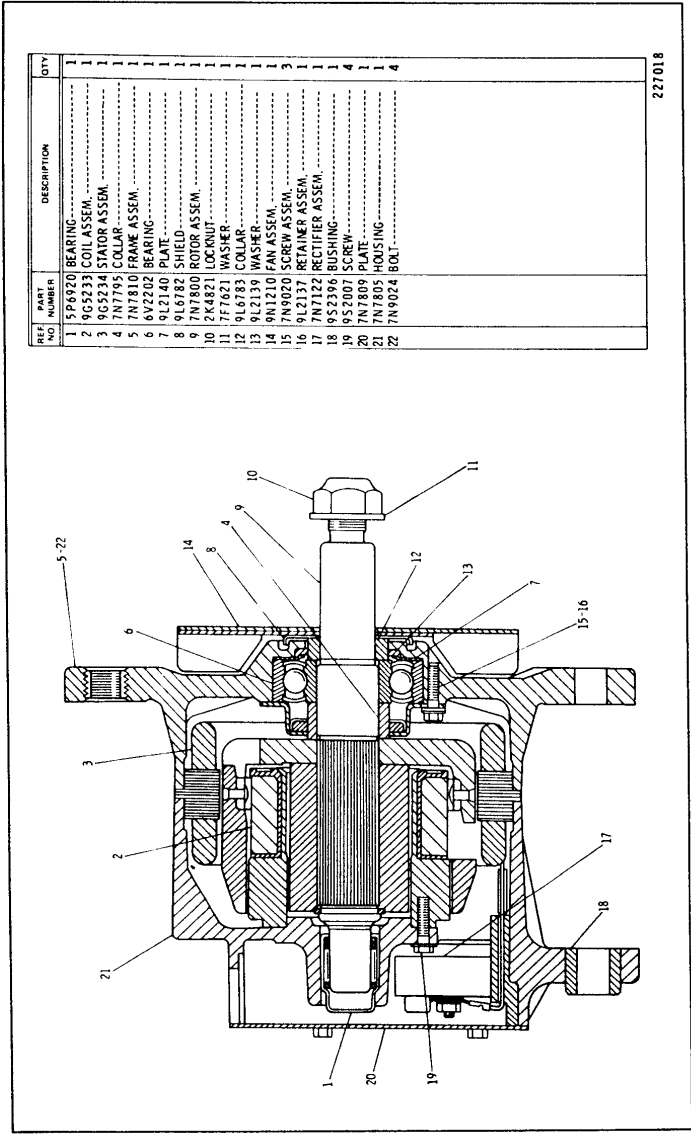


5N5692 ALTERNATOR GROUP—24 Volt, 45 Ampere — Part 1
AN ATTACHMENT

227016

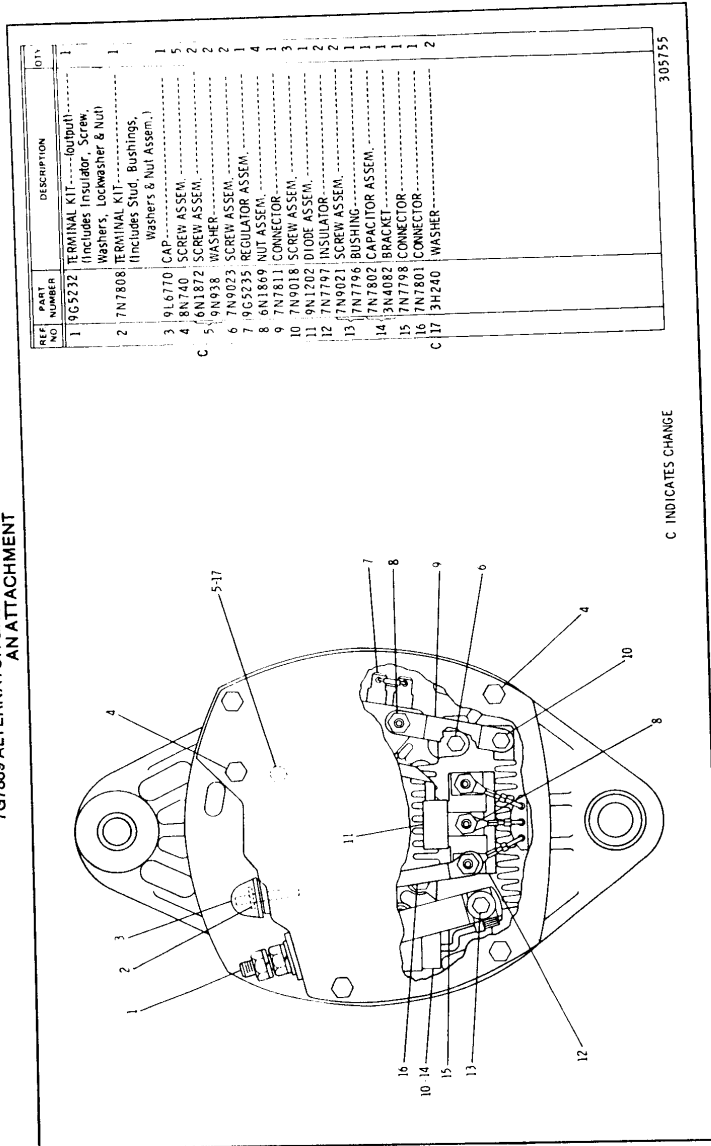
5N5692 ALTERNATOR GROUP—24 Volt, 45 Ampere—Part 2
AN ATTACHMENT





7G7889 ALTERNATOR GROUP—12 Volt, 60 Ampere—Part 1
AN ATTACHMENT

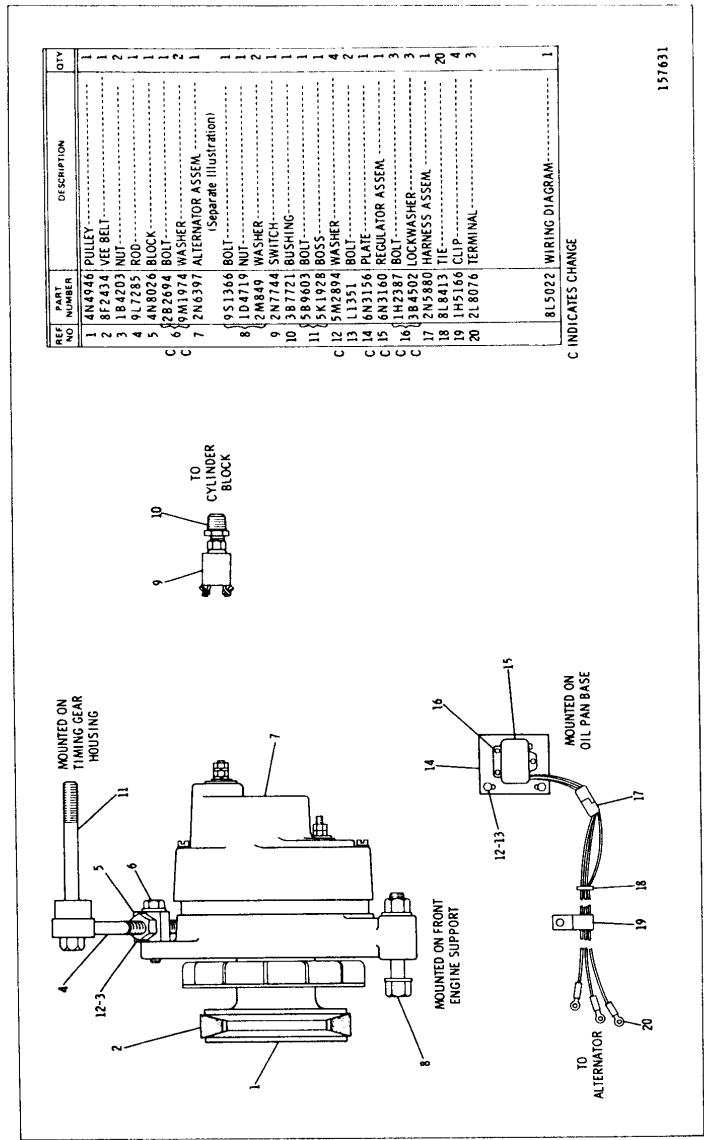
227018

7G7889 ALTERNATOR GROUP—12 Volt, 60 Ampere—Part 2
AN ATTACHMENT

Exploded perspective view of a vehicle alternator assembly. The main components are labeled with numbers 1 through 19. The assembly includes a front housing (1), a pulley (2), a bearing (3), a rotor assembly (4), a stator assembly (5), a diode rectifier (6), a voltage regulator (7), a brush holder (8), a brush (9), a brush spring (10), a brush holder cap (11-12), a terminal box (13), a terminal box cover (14), a terminal box gasket (15), a terminal box screws (16), a terminal box cable (17), a terminal box connector (18), and a terminal box plug (19). The text "VIEW OF ROD END" is shown near the brush holder assembly. The text "TO ALTERNATOR" is shown near the terminal box connector.

REF NO	PART NUMBER	DESCRIPTION	QTY
1	4N4940 PULLEY		1
2	8F2434 VEE BELT		1
3	184203 NUT		2
4	9L7285 ROD		1
5	4N8026 BLOCK		1
6	1A9579 BOLT		1
7	2N6397 ALTERNATOR ASSEM.		1
	(Separate illustration)		
8	9S1366 BOLT		1
9	1D4719 NUT		2
10	2N849 WASHER		1
11	2N7744 SWITCH		1
12	387723 BUSHING		1
13	589603 BOSS		1
14	5K1328 WASHER		2
15	5H1751 BOLT		2
16	4N9333 PLATE		1
17	2N7279 REGULATOR ASSEM.		1
18	5S1614 BOLT		3
19	5P5937 WASHER		3
20	2N5880 HARNESS ASSEM.		20
21	8L8413 TIE		4
22	1H5166 CLIP		4
23	2L8076 TERMINAL		4
24	8L5022 WIRING DIAGRAM		1
25	NOT SHOWN		

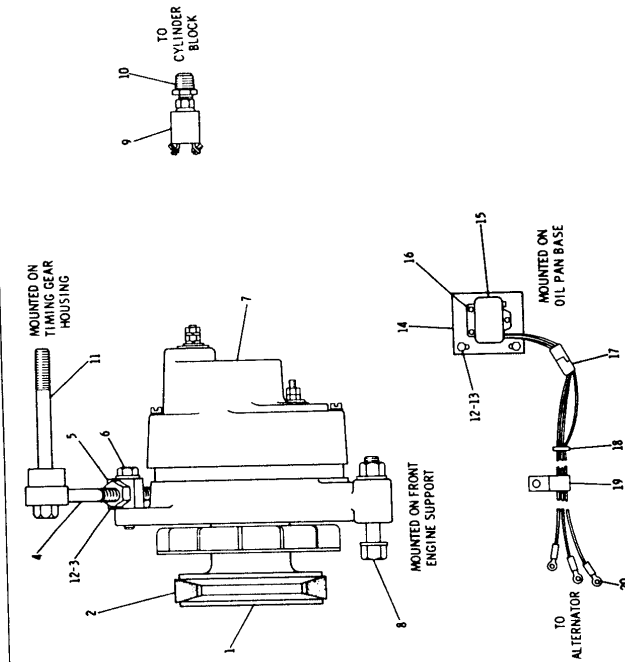
201070



157631

6N720 CHARGING ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 2
Replaced by 8N1291 shown on Page 171D
FOR USE WITH 6N719 SUPPORT GROUP SHOWN ON PAGE 29
2N6397 Alternator parts are shown on Page 170. AN ATTACHMENT

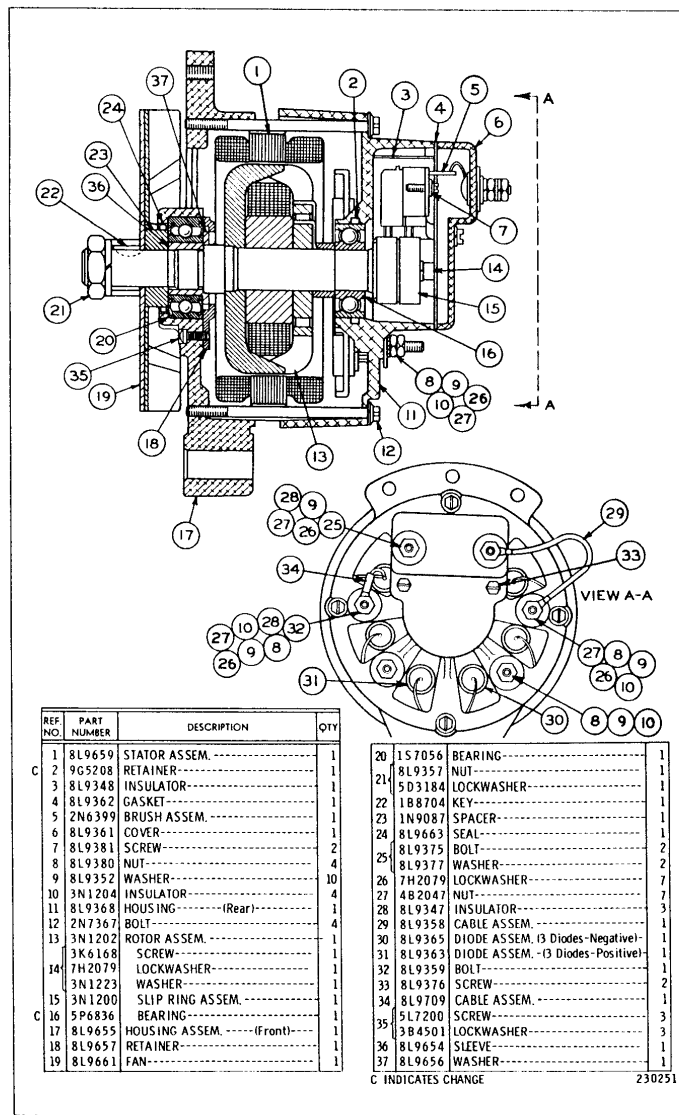
6N720 CHARGING ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 3
 Replaced by 8N1291 shown on Page 171D. FOR USE WITH 6N719 SUPPORT GROUP SHOWN ON PAGE 29
 2N6398 Alternator parts are shown on Page 164B. AN ATTACHMENT



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	4N4846	PULLEY	1
2	8F2431	V-BELT	1
3	1A2031	NUT	2
4	8P785	BOSS	1
5	4N8026	LOCKWASHER	1
6	1B9575	BOLT	1
7	6M1974	WASHER	2
C	2N6398	ALTERNATOR ASSEM. (Separate Illustration)	1
8	9S1366	BOLT	1
9	1D4719	NUT	1
10	2M849	WASHER	2
11	2N7744	SWITCH	1
12	3B7721	BUSHING	1
13	5B9603	BOLT	1
14	5K1928	BOSS	1
15	5M2894	WASHER	1
16	1L1351	BOLT	2
17	6N3156	PLATE	1
18	6N3160	REGULATOR ASSEM.	1
19	1H2387	BOLT	3
20	3B4502	LOCKWASHER	1
21	2N5880	HARNES ASSEM.	1
22	8L8413	TIE	1
23	1H5166	CLIP	20
24	2L8076	TERMINAL	4
25	8L5022	WIRING DIAGRAM	1

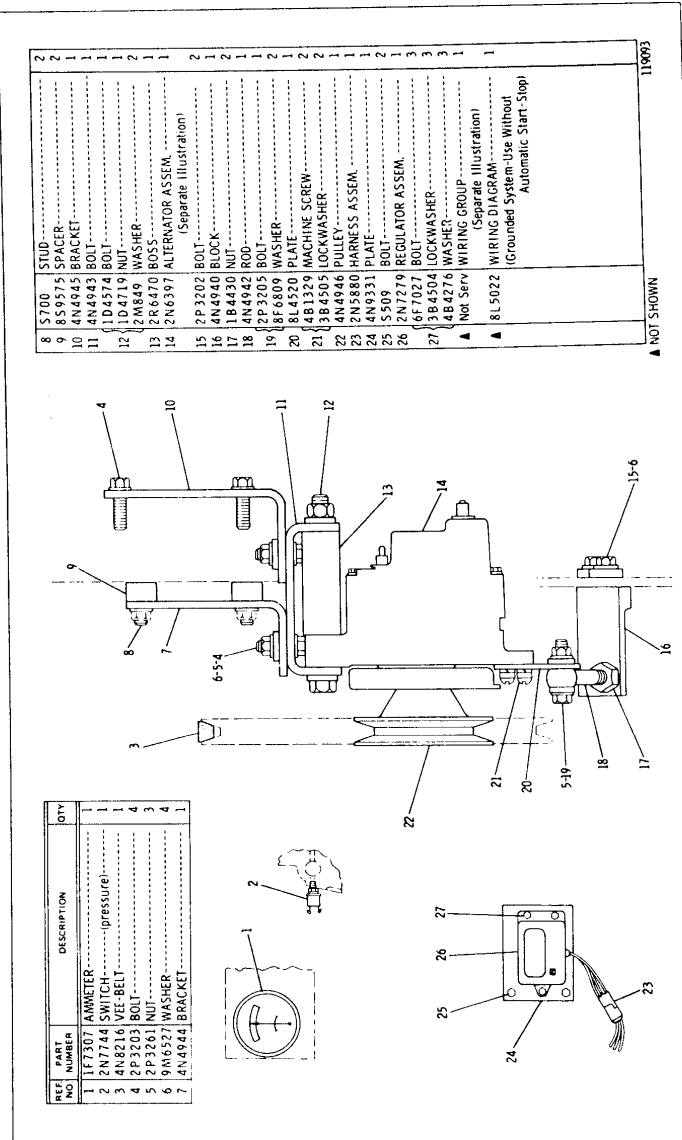
C INDICATES CHANGE

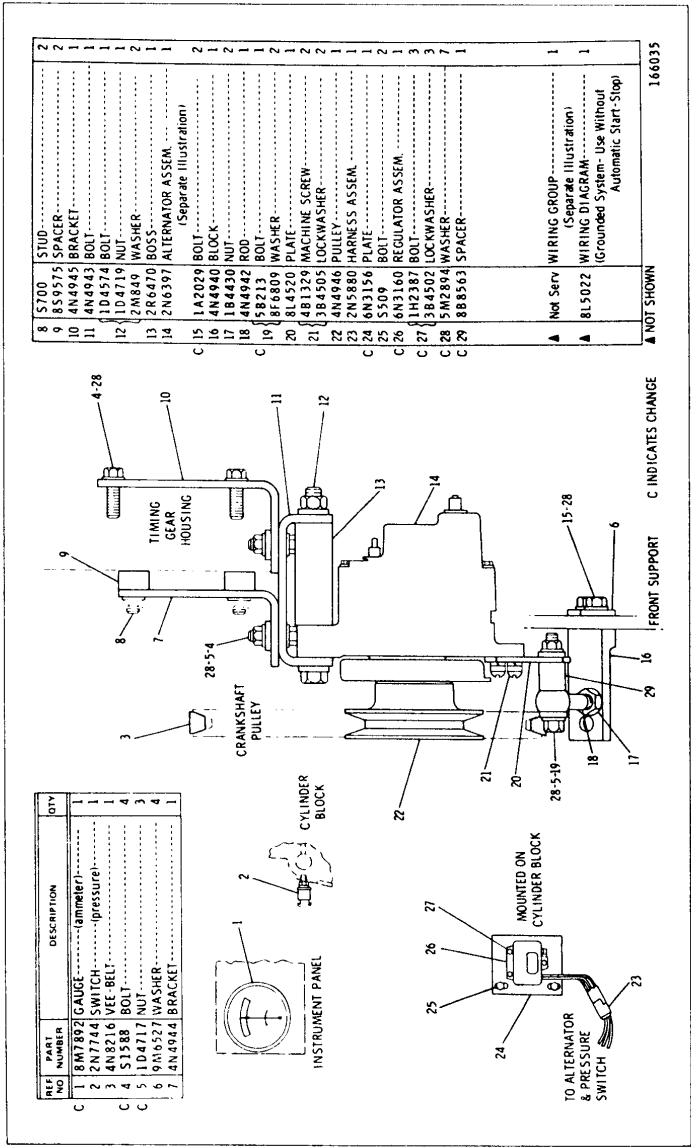
165966



2N6398 ALTERNATOR ASSEMBLY—24 Volt, 35 Ampere
Also part of 3N5680, 4N4948, 6N7140 & 6N720 Alternator Groups

4N4948 ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 1
2N6397 Alternator and 2L9808 Wiring Kit parts are shown on Pages 170 and 172
AN ATTACHMENT





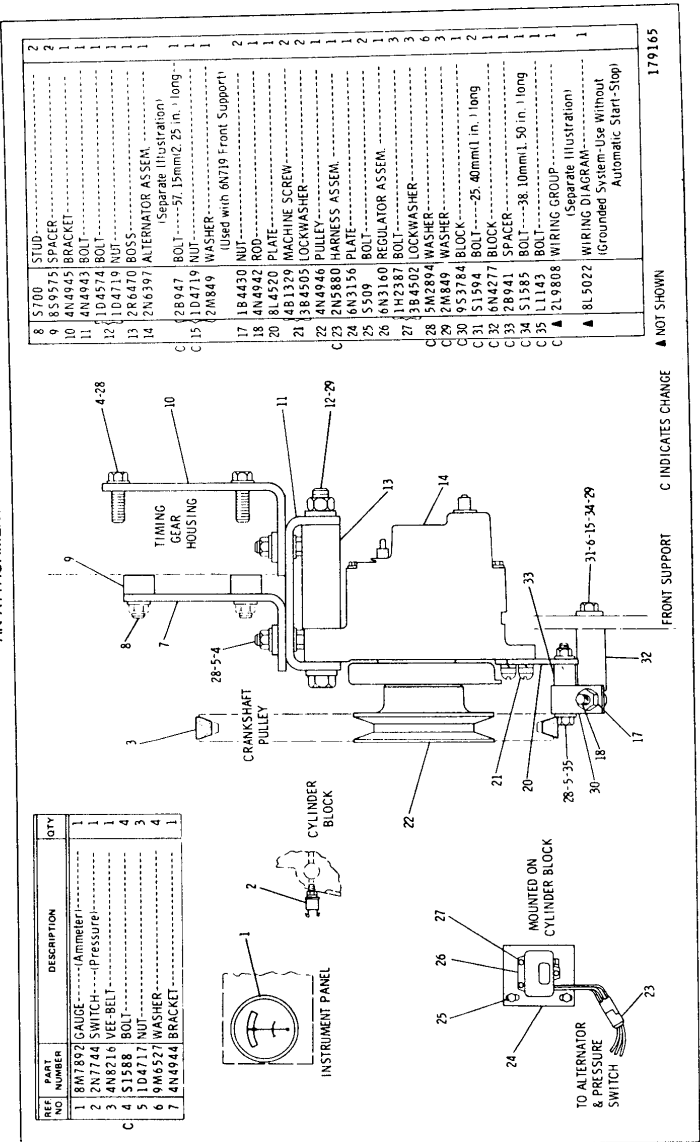
4N4948 ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 2

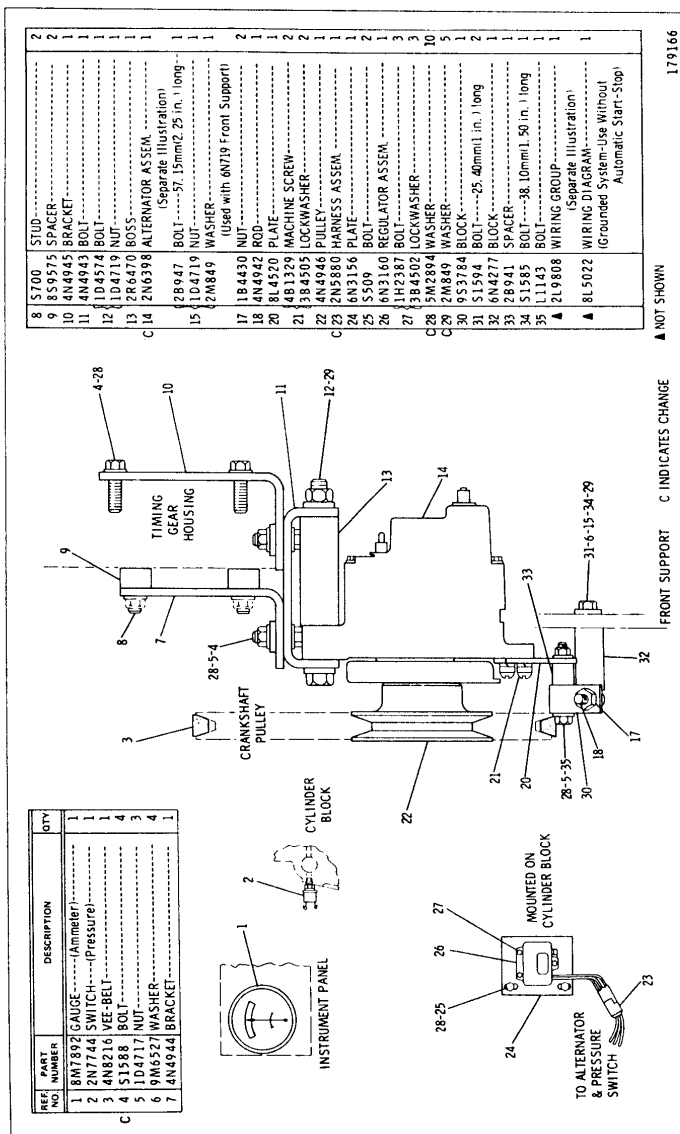
CANNOT BE USED WITH FRONT POWER TAKE-OFF

2N6397 Alternator and 2L9808 Wiring parts are shown on Pages 170 & 172

AN ATTACHMENT

4N4948 ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 3
CANNOT BE USED WITH FRONT POWER TAKE-OFF
2N6397 Alternator and 2L9808 Wiring parts are shown on Pages 170 & 172
AN ATTACHMENT





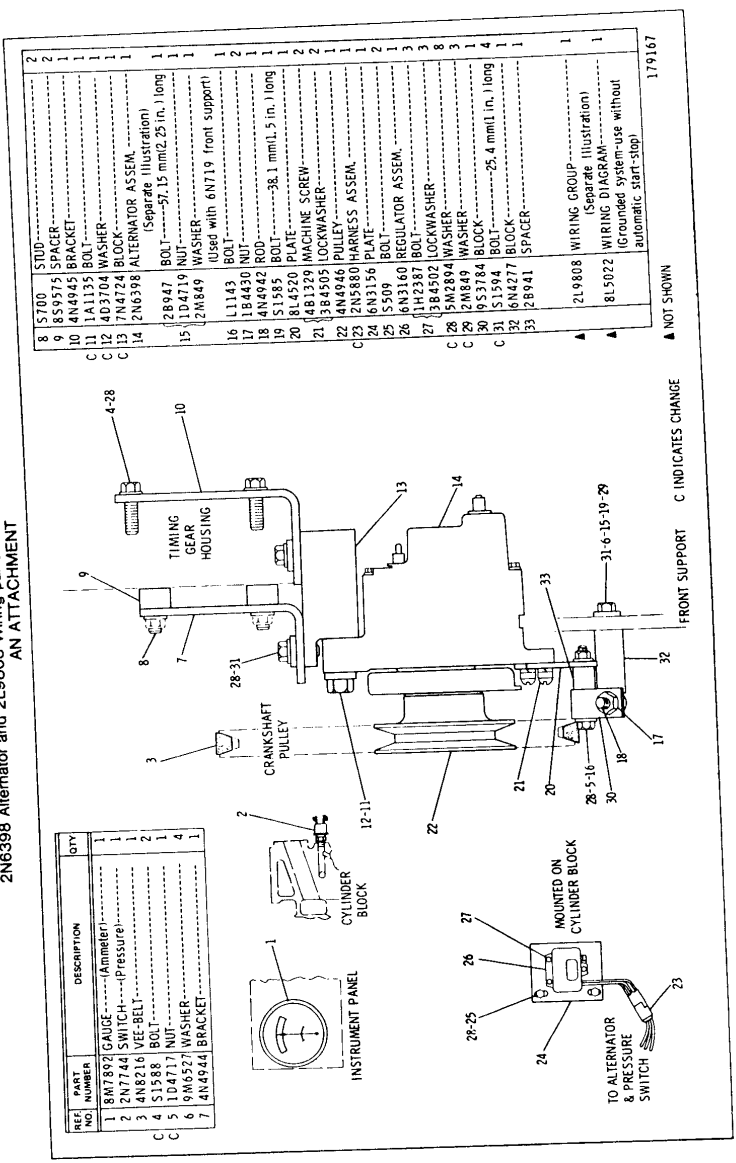
4N4948 ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 4
CANNOT BE USED WITH FRONT POWER TAKE-OFF
2N6398 Alternator and 2L9808 Wiring parts are shown on Pages 164B & 172
AN ATTACHMENT

▲ NOT SHOWN

FRONT SUPPORT C INDICATES CHANGE

179166

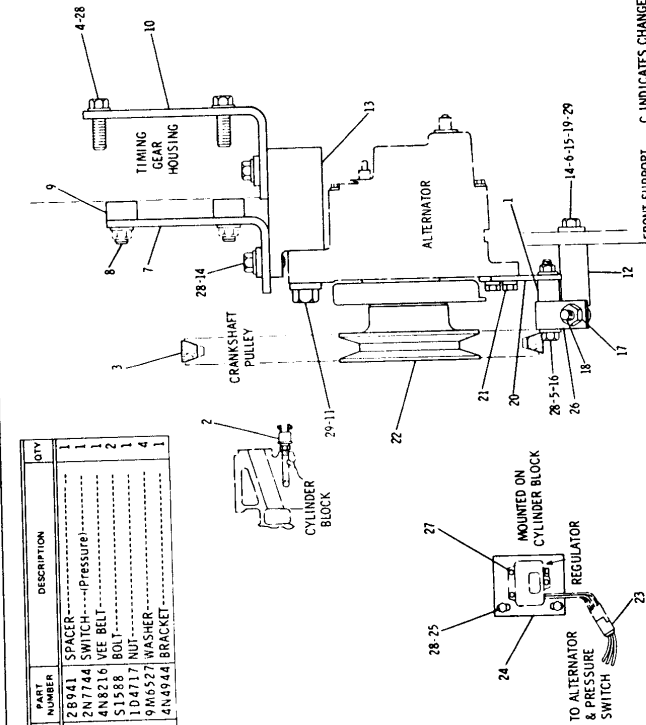
4N4948 ALTERNATOR GROUP—24 Volt, 35 Ampere—Type 5
CANNOT BE USED WITH FRONT POWER TAKE-OFF
2N6398 Alternator and 2L9808 Wiring parts are shown on Pages 164B & 172
AN ATTACHMENT



▲ NOT SHOWN
▲ INDICATES CHANGE
C FRONT SUPPORT

4N4948 ALTERNATOR MOUNTING GROUP—24 Volt, 35 Ampere—Type 6
 Replaced by 8N1688 shown on Page 171C. 2L9808 Wiring parts are shown on Page 172
 FOR USE WITH 3N5680 ALTERNATOR GROUP SHOWN ON PAGE 164-1b. CANNOT BE USED WITH FRONT POWER TAKE-OFF
 AN ATTACHMENT

REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	2B941	SPACER	1
2	2N7744	SWITCH	1
3	4N8216	VEE BELT	1
4	51588	BOLT	2
5	104717	NUT	2
6	9M6527	WASHER	4
7	4N4944	BRACKET	1

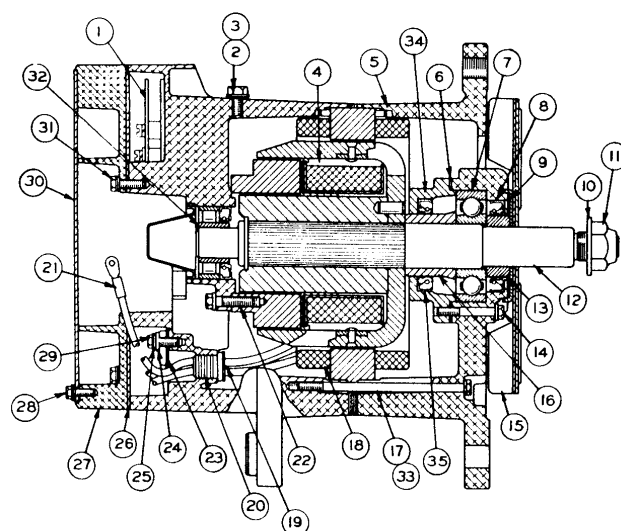


8	5700	STUD	2
9	5S9575	SPACER	2
10	4N4945	BRACKET	1
11	1A1460	BOLT	1
12	6N4277	BLOCK	1
13	7N4724	BLOCK	1
14	51594	BOLT	4
15	104719	NUT	1
16	5P8245	WASHER	2
17	1B4430	NUT	1
18	4N4942	ROD	1
19	51585	BOLT	1
20	7N9341	PLATE	1
21	9M1974	WASHER	2
22	4N4946	PULLEY	1
23	2N5880	HARNESSE ASSEM.	1
24	6N3156	PLATE	1
25	5509	BOLT	2
26	953784	BLOCK	1
27	1H2387	BOLT	3
28	5M2894	LOCKWASHER	3
29	5P8245	WASHER	8
30	5P8245	WASHER	3
31	2L9808	WIRING GROUP	1
32	2L9808	WIRING GROUP	1
33	2L9808	WIRING GROUP	1
34	2L9808	WIRING GROUP	1
35	2L9808	WIRING GROUP	1
36	2L9808	WIRING GROUP	1
37	2L9808	WIRING GROUP	1
38	2L9808	WIRING GROUP	1
39	2L9808	WIRING GROUP	1
40	2L9808	WIRING GROUP	1
41	2L9808	WIRING GROUP	1
42	2L9808	WIRING GROUP	1
43	2L9808	WIRING GROUP	1
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46	2L9808	WIRING GROUP	1
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91	2L9808	WIRING GROUP	1
92	2L9808	WIRING GROUP	1
93	2L9808	WIRING GROUP	1
94	2L9808	WIRING GROUP	1
95	2L9808	WIRING GROUP	1
96	2L9808	WIRING GROUP	1
97	2L9808	WIRING GROUP	1
98	2L9808	WIRING GROUP	1
99	2L9808	WIRING GROUP	1
100	2L9808	WIRING GROUP	1

FRONT SUPPORT C INDICATES CHANGE

NOT SHOWN

179168

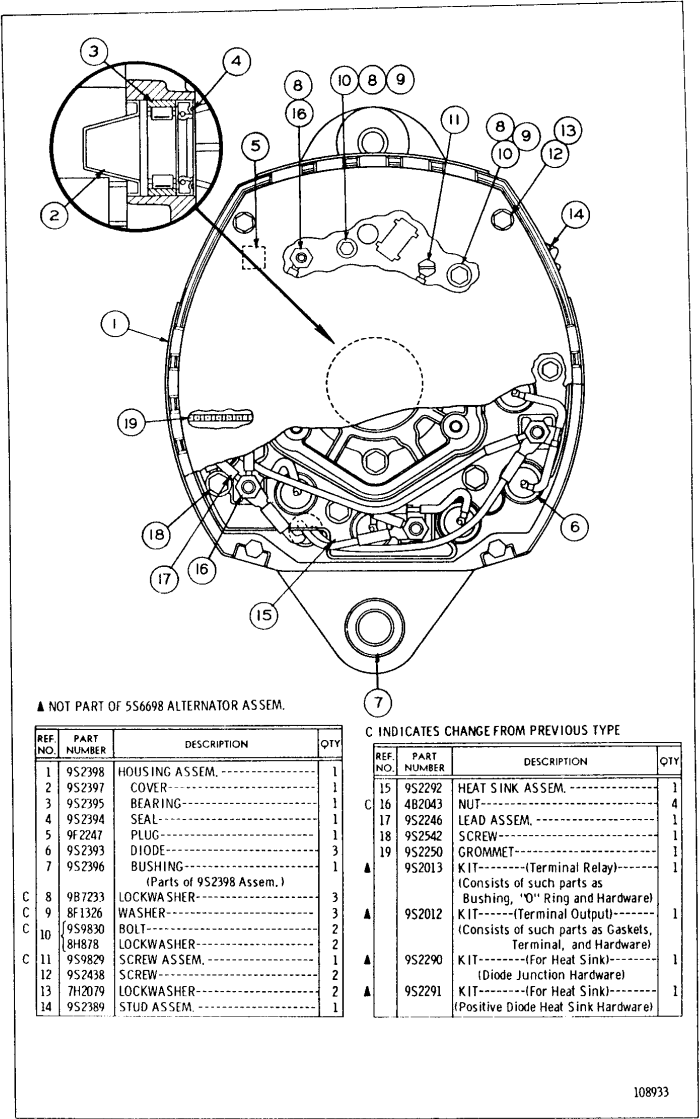


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	9S3196	REGULATOR ASSEM.-----	1
2	9S2011	SCREW-----	1
3	1L4789	LOCKWASHER-----	1
4	9S3198	FIELD COIL AND SUPPORT ASSEM.	1
5	2P5616	FRAME-----	1
6	9S2256	GASKET-----	1
7	2F5721	BEARING-----	1
8	9S2391	SEAL-----	1
9	9S2252	SLINGER-----	1
10	7F7621	WASHER-----	1
11	2K4821	NUT-----	1
12	9S2302	ROTOR ASSEM.-----	1
13	9S2254	COLLAR-----	1
14	9S2008	SCREW-----	4
15	9S2258	FAN AND Baffle ASSEM.-----	1
16	9S2261	COLLAR-----	1
17	9S2009	BOLT-----	4
18	9S3451	STATOR ASSEM.-----	1
19	9S2006	INSULATOR-----	1
20	9S2005	GROMMET-----	1
21	9S2014	CLIP-----	3
22	9S2007	SCREW-----	3
23	9S2301	INSULATION-----	1
24	9S2300	INSULATOR-----	4
25	9S2247	WASHER----- (Spring)-----	4
26	4B4863	WASHER----- (Plain)-----	4
27	9S2262	GASKET-----	1
28	9S2255	COVER-----	1
29	9S2544	SCREW-----	4
30	8H878	LOCKWASHER-----	4
31	9S9830	SCREW-----	4
32	9S2260	PLATE-----	1
33	9S2437	SCREW-----	5
34	7H2079	LOCKWASHER-----	5
35	9S2242	RACE-----	4
	3B4502	LOCKWASHER-----	1
	9S2390	RETAINER ASSEM.-----	1
	9S2391	SEAL-----	1

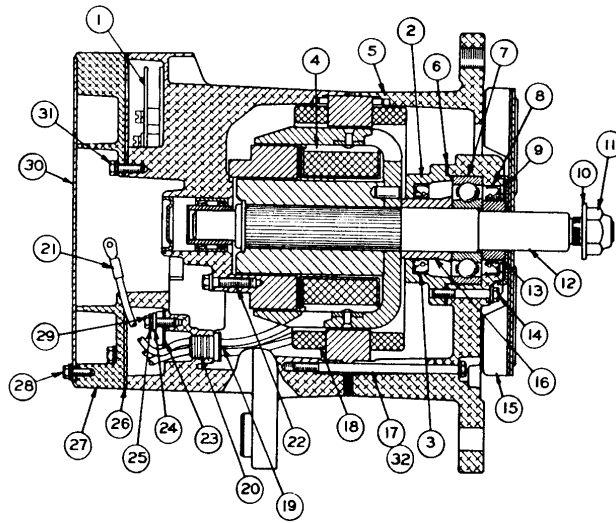
C INDICATES CHANGE

203763

5S6698 ALTERNATOR ASSEMBLY—12 Volt, 75 Ampere—Part 1
Part of 4N8364 Alternator Group listed on Page 164



5S6698 ALTERNATOR ASSEMBLY—12 Volt, 75 Ampere—Part 2
Part of 4N8364 Alternator Group listed on Page 164

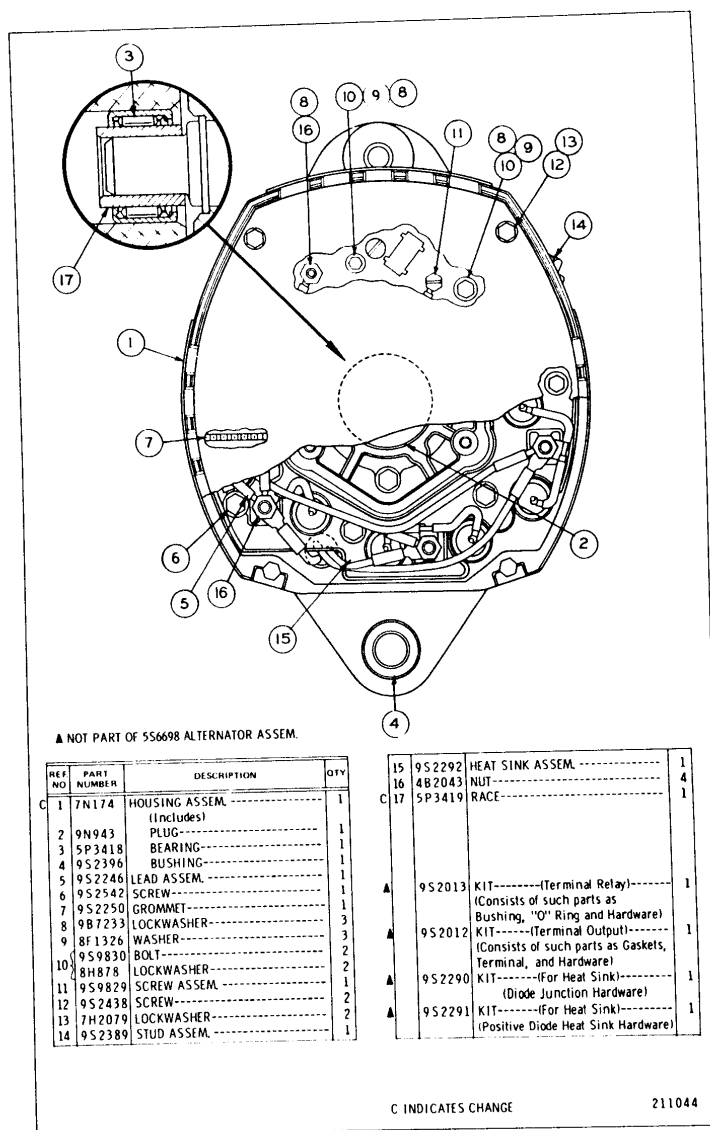


REF. NO.	PART NUMBER	DESCRIPTION	QTY
C 1	7N284	REGULATOR ASSEM.	1
2	9S2390	RETAINER ASSEM.	1
3	9S2391	SEAL	1
4	9S3198	FIELD COIL AND SUPPORT ASSEM.	1
5	2P5616	FRAME	1
6	9S2256	GASKET	1
7	2F5721	BEARING	1
8	9S2391	SEAL	1
9	9S2252	SLINGER	1
10	7F7621	WASHER	1
11	2K4821	NUT	1
12	9S2302	ROTOR ASSEM.	1
13	9S2254	COLLAR	1
14	9S2008	SCREW	4
15	9S2258	FAN AND BAFFLE ASSEM.	1
16	9S2261	COLLAR	1
17	9S2009	BOLT	4
18	9S3451	STATOR ASSEM.	1
19	9S2006	INSULATOR	1
20	9S2005	GROMMET	1
21	9S2014	CLIP	3
22	9S2007	SCREW	3
23	9S2301	INSULATOR	1
24	9S2300	INSULATOR	4
25	9S2247	WASHER	4
26	4B4863	WASHER	4
27	9S2262	GASKET	1
28	9S2255	COVER	1
29	9S2544	SCREW	4
30	8H878	LOCKWASHER	4
31	9S9830	SCREW	4
32	9S2260	PLATE	1
	9S2437	SCREW	5
	7H2079	LOCKWASHER	5
	3B4502	LOCKWASHER	1

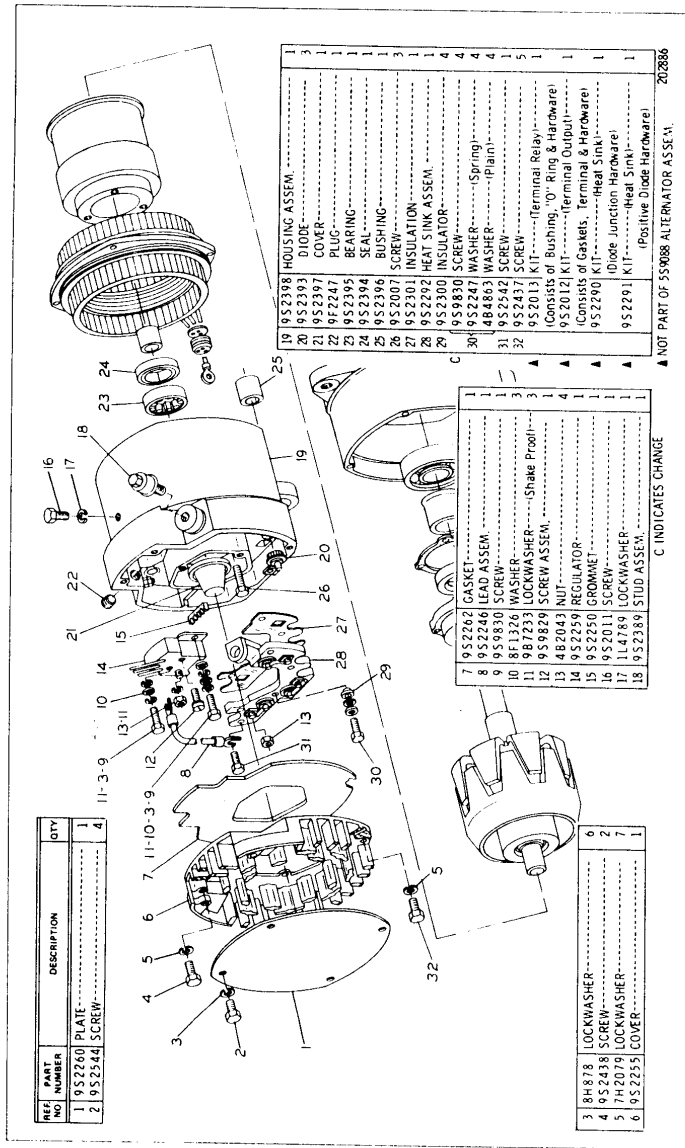
C INDICATES CHANGE

211043

5S6698 ALTERNATOR ASSEMBLY—12 Volt, 75 Ampere—Part 1—Type 2
Part of 4N8364 Alternator Group listed on Page 164

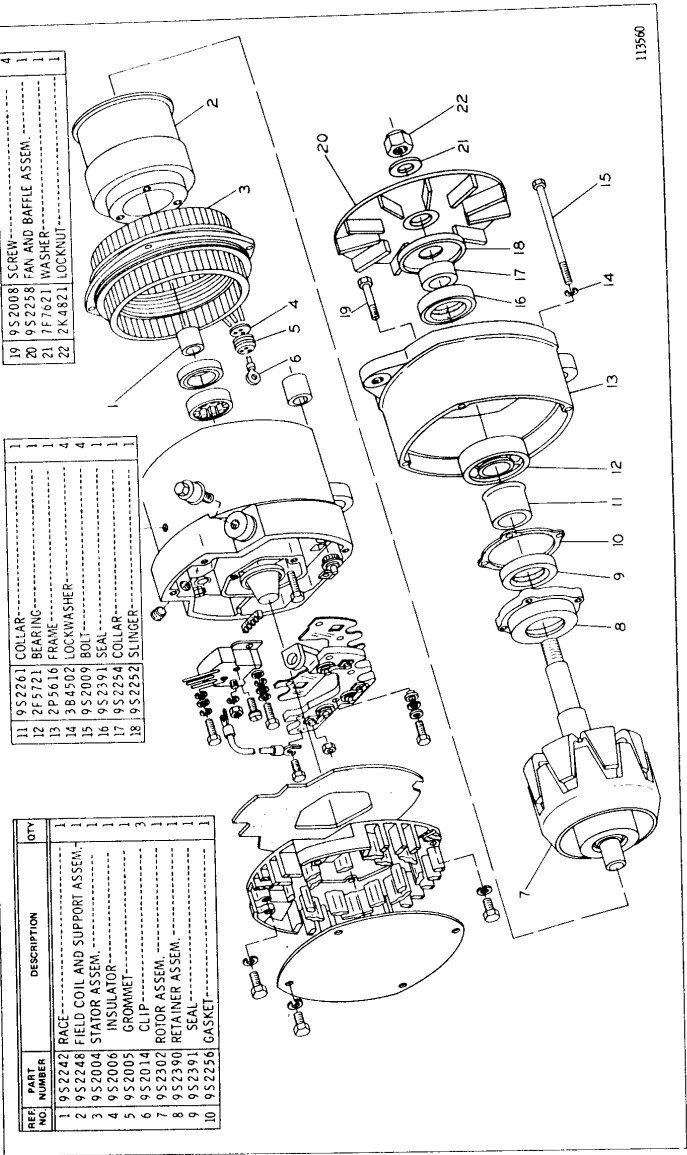


5S6698 ALTERNATOR ASSEMBLY—12 Volt, 75 Ampere—Part 2—Type 2
Part of 4N8364 Alternator Group listed on Page 164

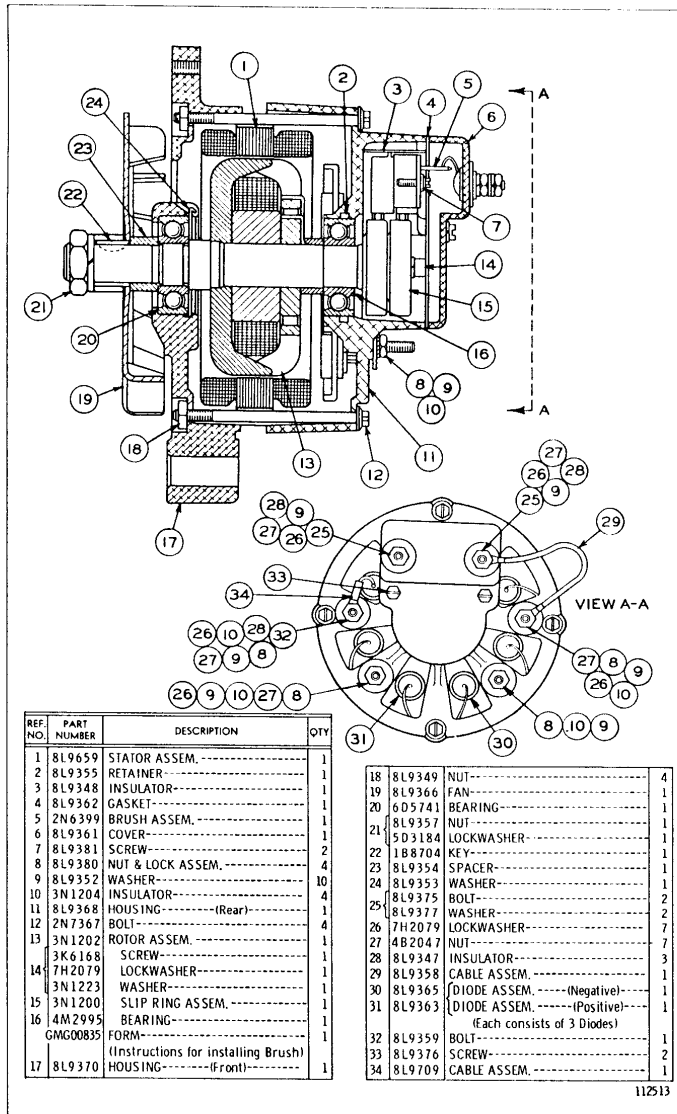


5S9088 ALTERNATOR ASSEMBLY—24 Volt, 50 Ampere—Part 1
Part of 4N7078 Alternator Group listed on Page 164

5S9088 ALTERNATOR ASSEMBLY—24 Volt, 50 Ampere—Part 2
Part of 4N7078 Alternator Group listed on Page 164



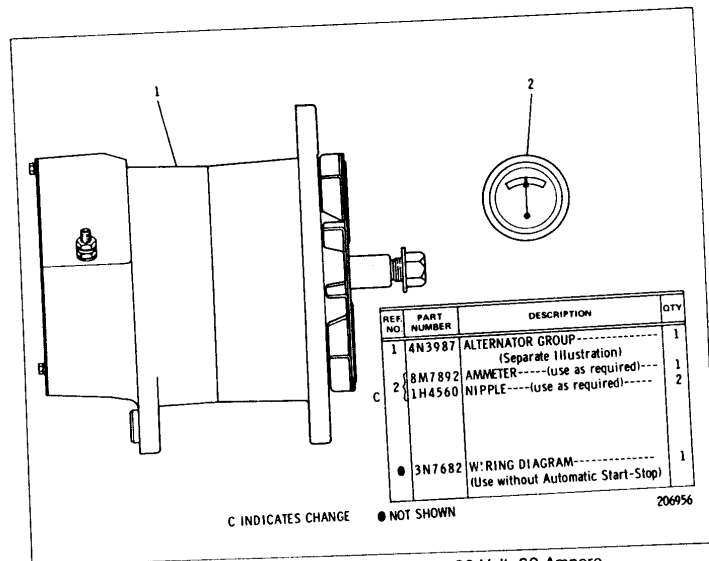
113560



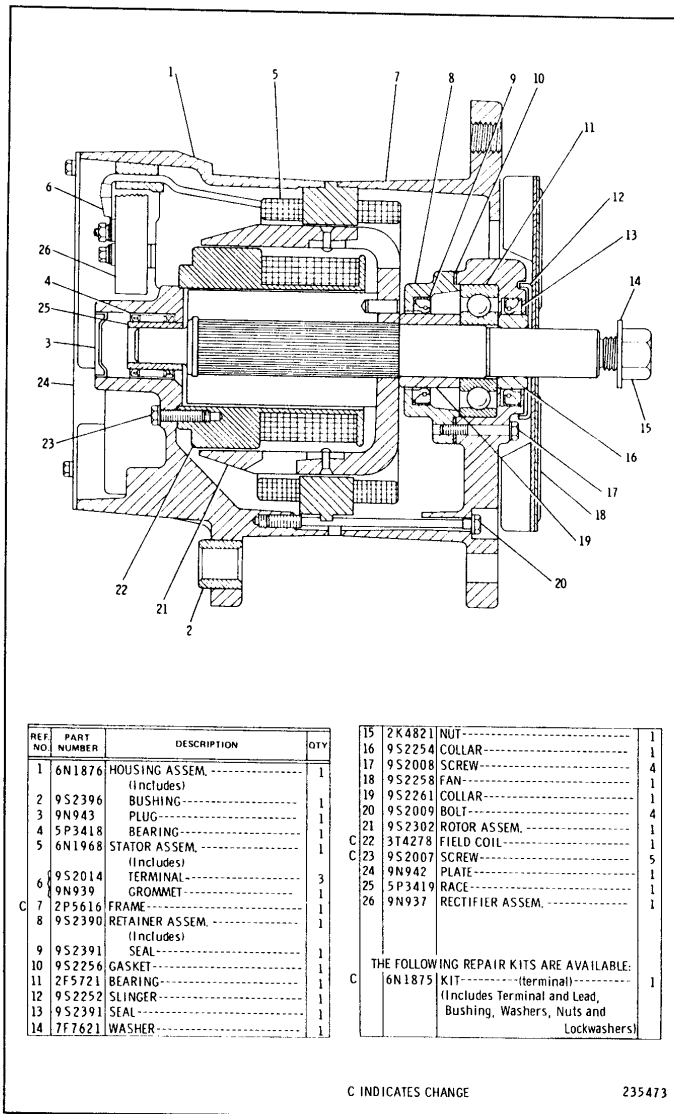
2N6397 ALTERNATOR ASSEMBLY—24 Volt, 35 Ampere

Replaced by 2N6398 shown on Page 164B

Part of 6N720, 6N7140 and 4N4948 Alternator Groups shown on Pages 164A, 164-5 & 165

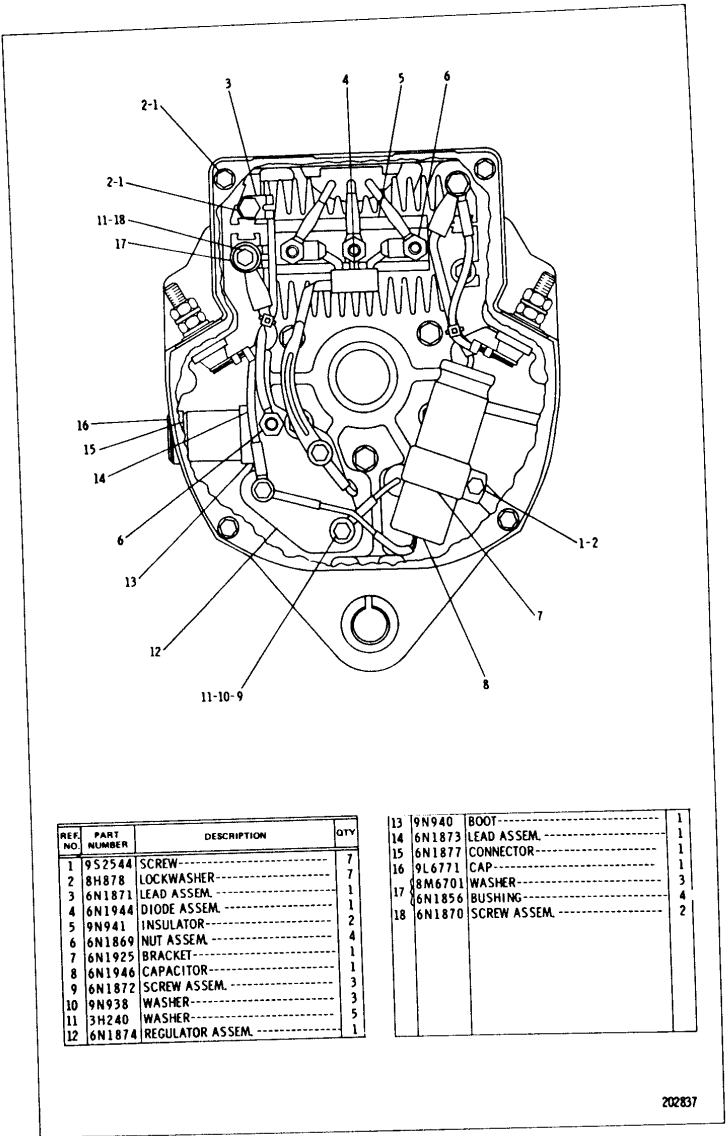


3N7684 ALTERNATOR GROUP—30 or 32 Volt, 60 Ampere
 FOR USE WITH 4N8365 AND 6N7141 ALTERNATOR MOUNTING GROUPS SHOWN
 ON PAGES 170B, 171, 171A & 171B. 4N3987 Alternator parts are shown on Pages
 170-2 & 170-3. AN ATTACHMENT



235473

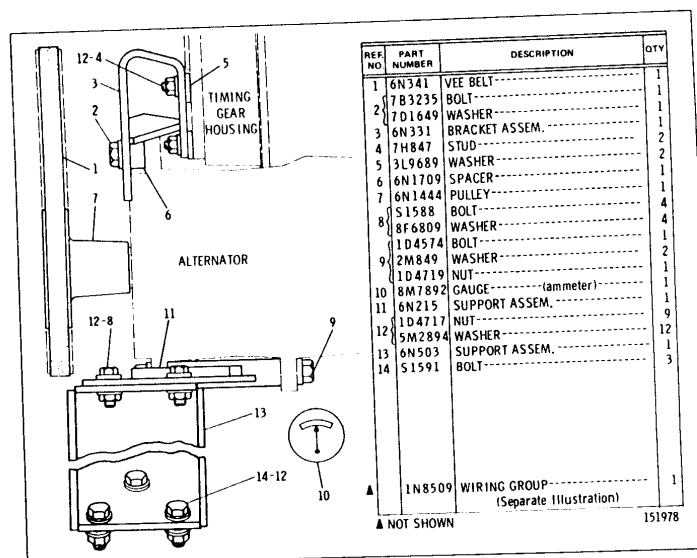
4N3987 ALTERNATOR GROUP—32 Volt, 60 Ampere—Side View
 Part of 3N7684 Alternator Group shown on Page 170-1
 AN ATTACHMENT



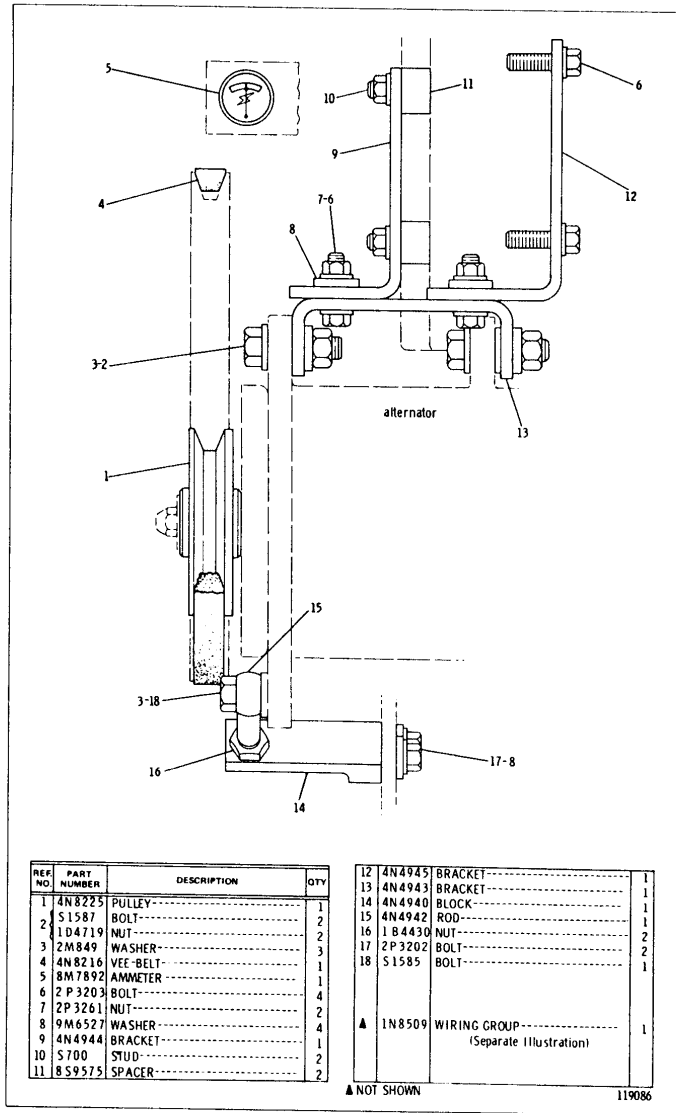
202837

4N3987 ALTERNATOR GROUP—32 Volt, 60 Ampere—End View
Part of 3N7684 Alternator Group shown on Page 170-1
AN ATTACHMENT

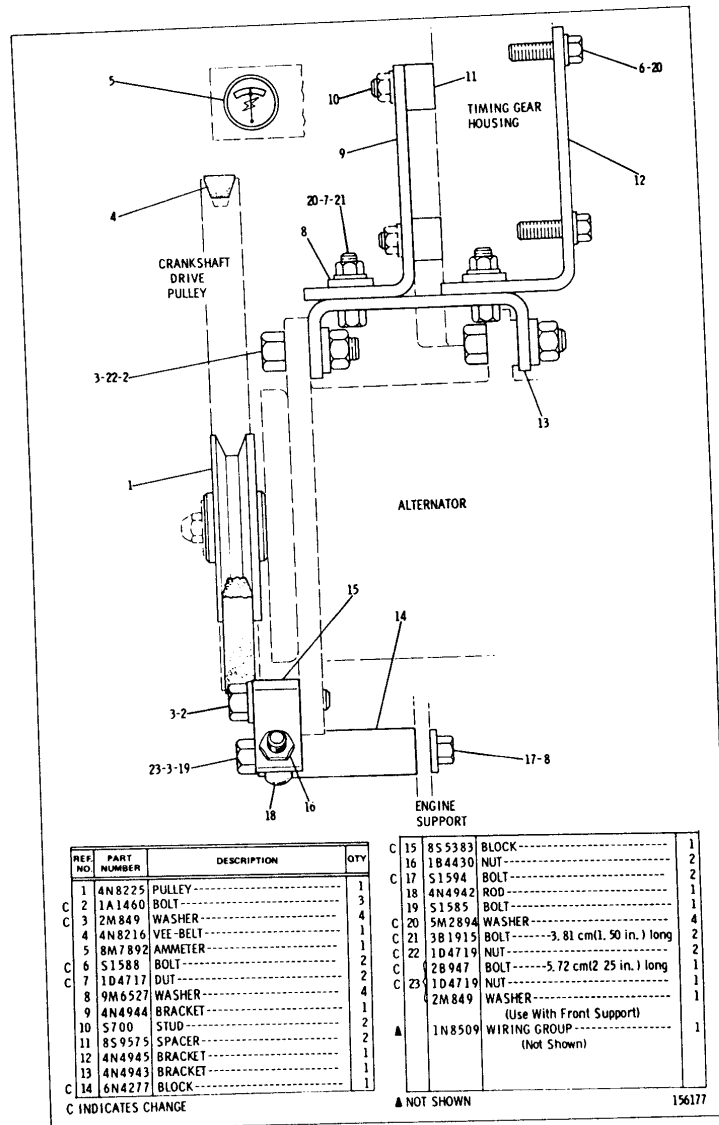




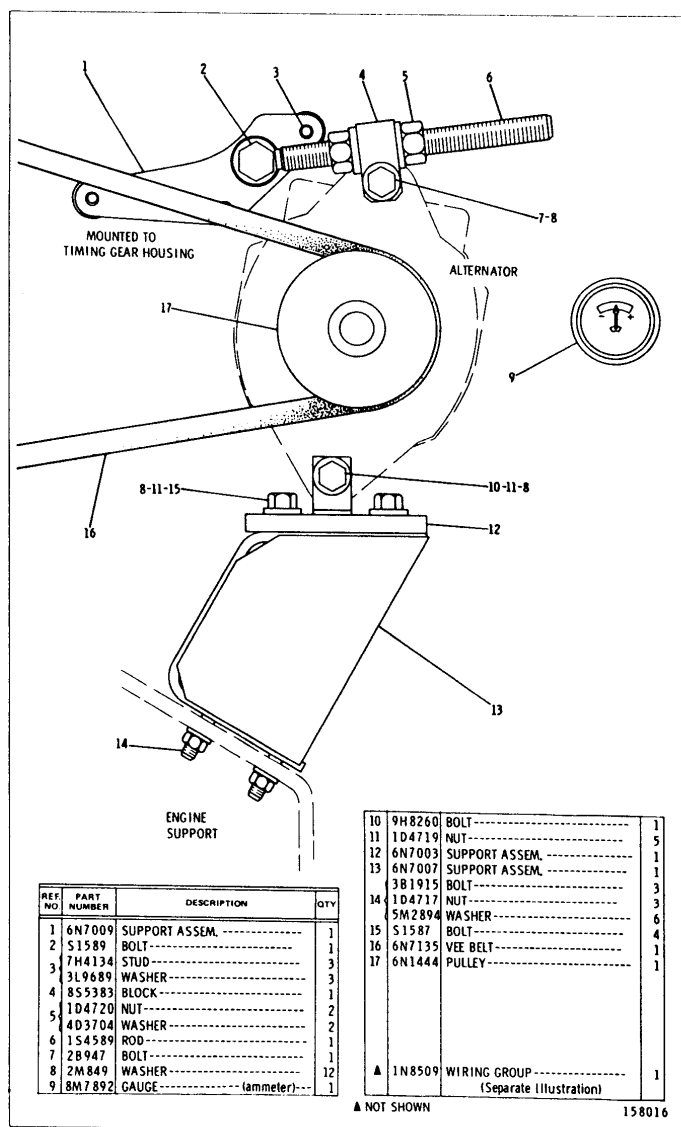
6N588 ALTERNATOR MOUNTING GROUP
 1N8509 Wiring Kit parts are shown on Page 172
 AN ATTACHMENT. FOR USE WITH FRONT POWER TAKE-OFF



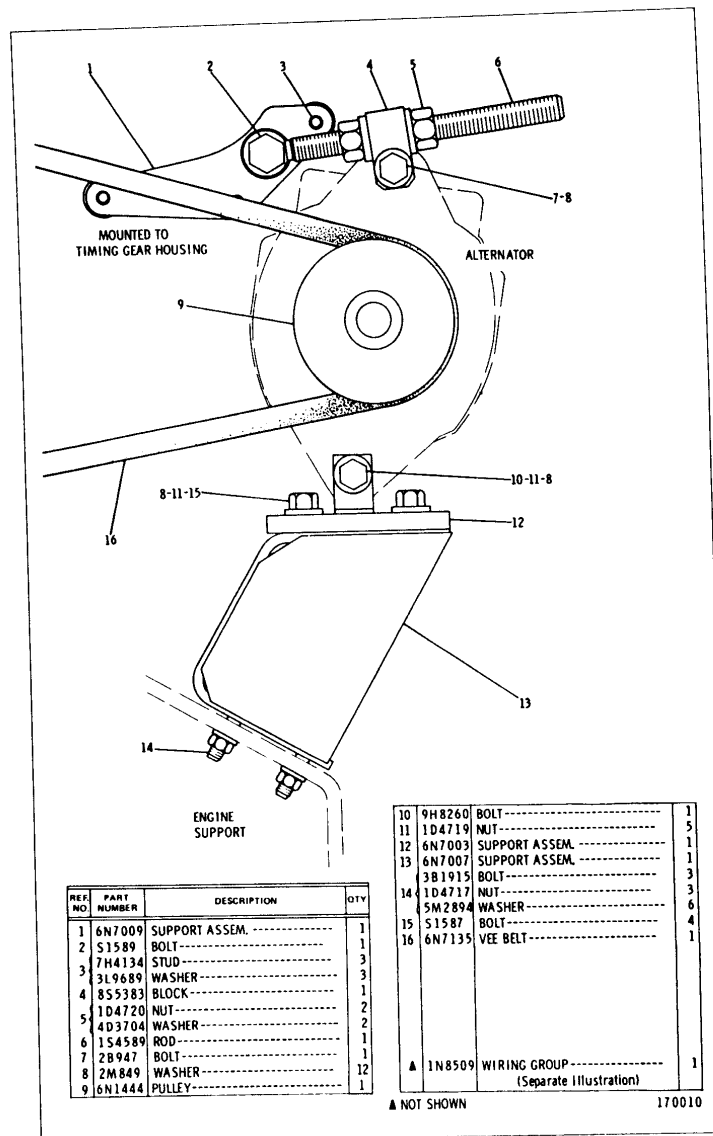
4N8365 ALTERNATOR MOUNTING GROUP—12 Volt, 75 Ampere—Type 1
FOR USE WITH INDUSTRIAL AND MOBILE ENGINES
 1N8509 Wiring Kit parts are shown on Page 172. AN ATTACHMENT



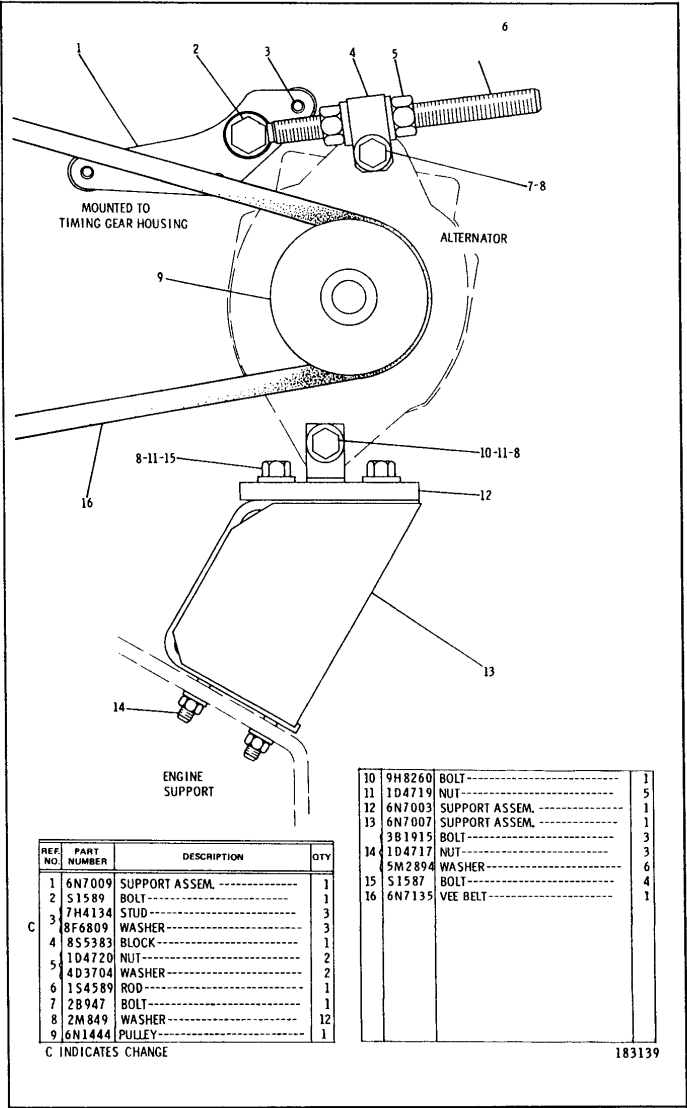
4N8365 ALTERNATOR MOUNTING GROUP—12 Volt, 75 Ampere—Type 2
FOR USE WITH INDUSTRIAL AND MOBILE ENGINES
1N8509 Wiring Kit parts are shown on Page 172. AN ATTACHMENT



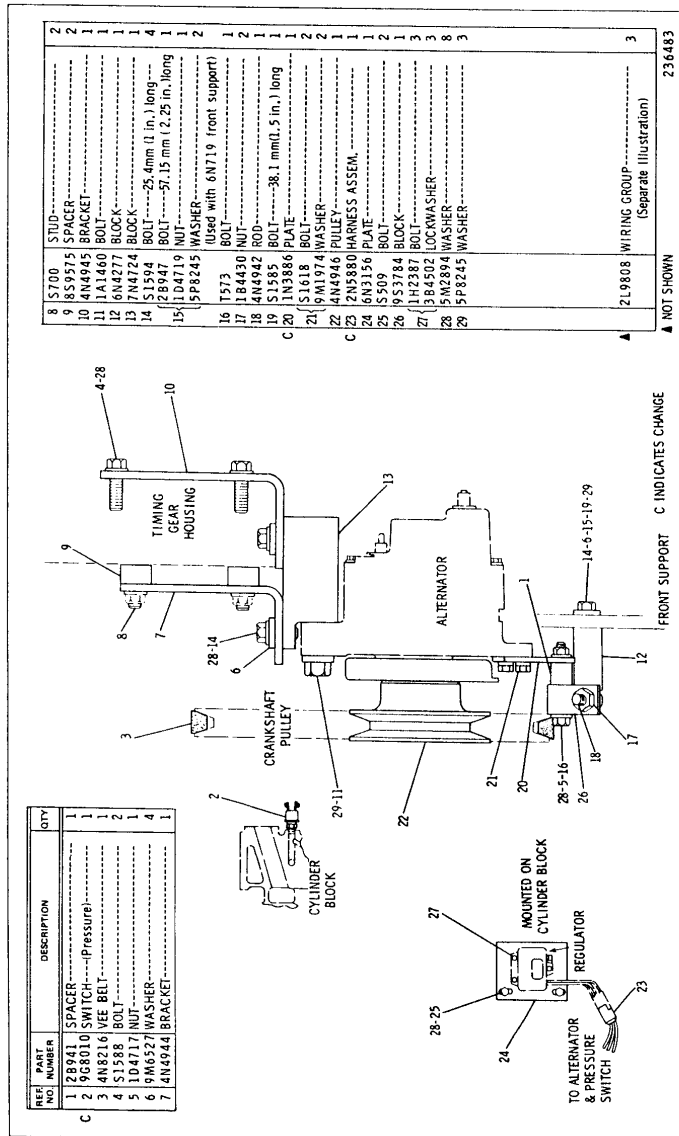
6N7141 ALTERNATOR MOUNTING GROUP—Type 1
 FOR USE WITH FRONT POWER TAKE-OFF
 1N8509 Wiring parts are shown on Page 172
 AN ATTACHMENT



6N7141 ALTERNATOR MOUNTING GROUP—Type 2
FOR USE WITH FRONT POWER TAKE-OFF
1N8509 Wiring parts are shown on Page 172
AN ATTACHMENT



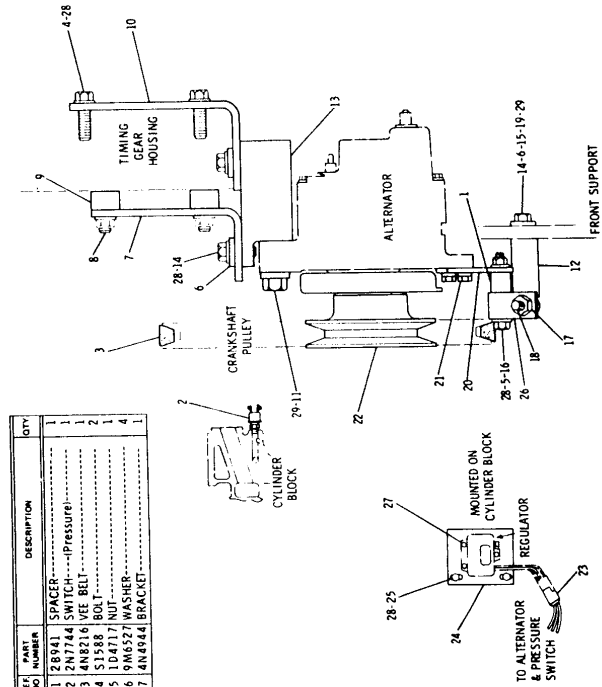
6N7141 ALTERNATOR MOUNTING GROUP—Type 3
FOR USE WITH FRONT POWER TAKE-OFF
1N8509 Wiring parts are shown on Page 172. AN ATTACHMENT



8N1689 ALTERNATOR MOUNTING GROUP—Left Hand—Type 1
 FOR USE WITH 24 VOLT, 35 AMPERE ALTERNATOR AND INDUSTRIAL AND MOBILE EQUIPMENT ENGINES
 2L9808 Wiring parts are shown on Page 172, AN ATTACHMENT

8N1689 ALTERNATOR MOUNTING GROUP—Left Hand—Type 2
FOR USE WITH 24 VOLT, 35 AMPERE ALTERNATOR, INDUSTRIAL AND MOBILE EQUIPMENT ENGINES
2L9808 Wiring parts are shown on Page 172, AN ATTACHMENT

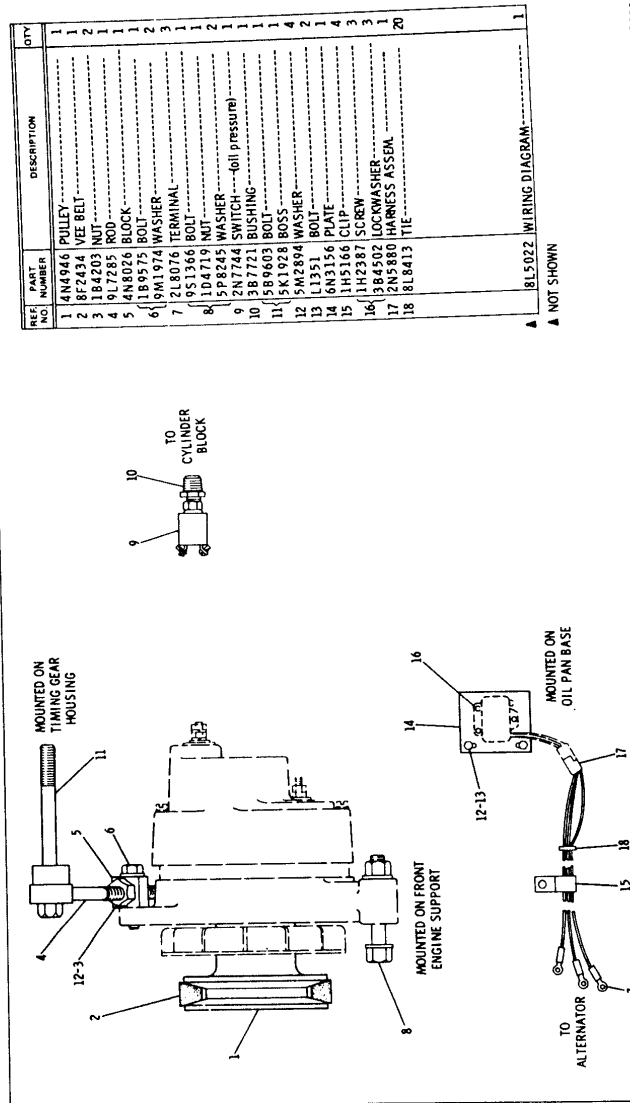
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	2B941	SPACER	1
2	2N7744	SWITCH	1
3	4N8216	VEE BELT	1
4	51585	BOLT	2
5	1D4719	NUT	2
6	9M5527	WASHER	4
7	4N4944	BRACKET	1



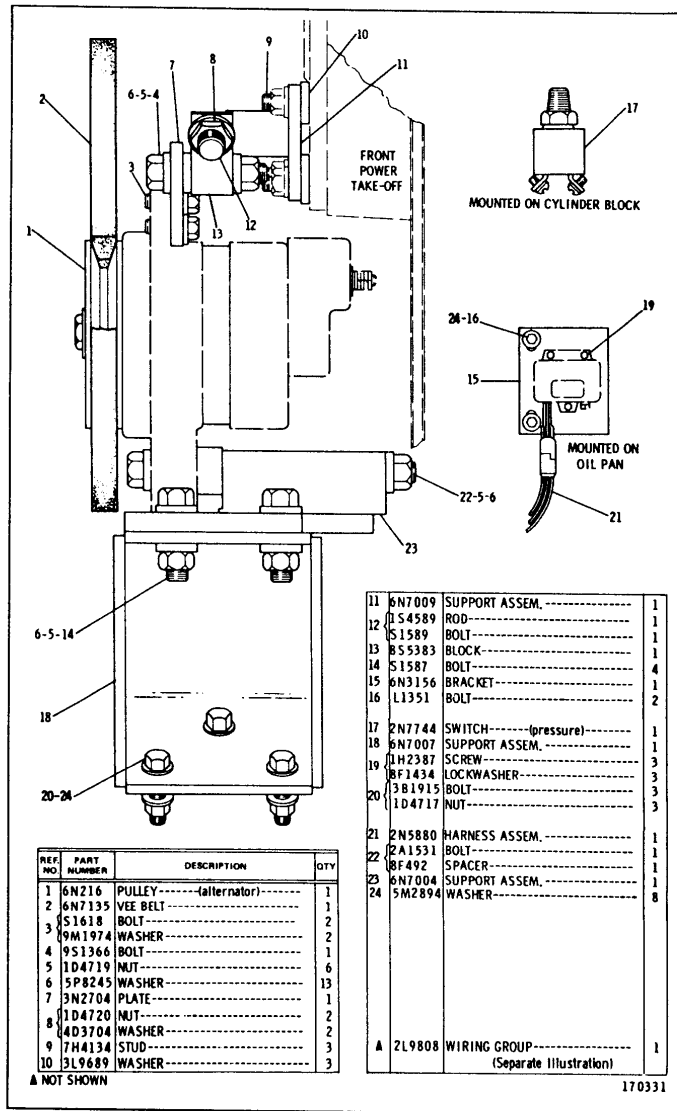
8	5700	STUD	2
9	859515	SPACER	1
10	4N4944	BRACKET	1
11	4N4940	BOLT	1
12	6N4277	BLOCK	1
13	7N4724	BLOCK	1
14	51594	BOLT	4
15	1D4719	NUT	1
16	5P8245	WASHER	2
17	15733	BOLT	1
18	184430	NUT	2
19	4N4942	ROD	1
20	51585	BOLT	1
21	7N9341	PLATE	1
22	51618	BOLT	2
23	9M1974	WASHER	1
24	4N4946	PULLEY	1
25	3N5880	HARNESSE ASSEN.	1
26	4N3156	PLATE	2
27	559784	BOLT	1
28	559784	BLOCK	3
29	1D4719	NUT	3
30	1D4719	NUT	3
31	1D4719	NUT	3
32	1D4719	NUT	3
33	1D4719	NUT	3
34	1D4719	NUT	3
35	1D4719	NUT	3
36	1D4719	NUT	3
37	1D4719	NUT	3
38	1D4719	NUT	3
39	1D4719	NUT	3
40	1D4719	NUT	3
41	1D4719	NUT	3
42	1D4719	NUT	3
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95	1D4719	NUT	3
96	1D4719	NUT	3
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98	1D4719	NUT	3
99	1D4719	NUT	3
100	1D4719	NUT	3



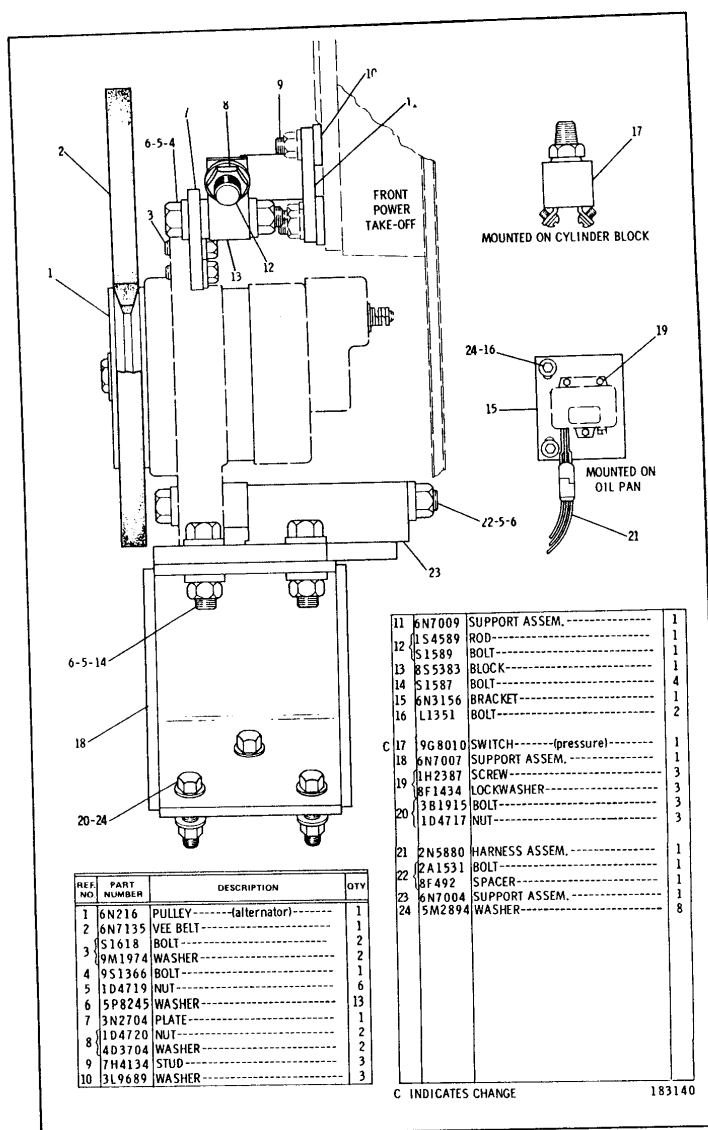
8N1291 ALTERNATOR MOUNTING GROUP—Right Hand
FOR USE WITH 24 VOLT, 35 AMPERE ALTERNATOR AND INDUSTRIAL AND MOBILE EQUIPMENT ENGINES
AN ATTACHMENT



170330



8N1636 ALTERNATOR MOUNTING GROUP—Type 1
 FOR USE WITH 24 VOLT, 35 AMPERE ALTERNATOR & FRONT POWER TAKE-OFF
 INDUSTRIAL ENGINES. 2L9808 Wiring parts are shown on Page 172
 AN ATTACHMENT



8N1636 ALTERNATOR MOUNTING GROUP—Type 2
 FOR USE WITH 24 VOLT, 35 AMPERE ALTERNATOR & FRONT POWER TAKE-OFF
 INDUSTRIAL ENGINES. 2L9808 Wiring parts are shown on Page 172
 AN ATTACHMENT

Consists of:

	5P5622	Wire—(No. 10 Gauge)—9 m (30 Foot)
	5P5675	Wire—(No. 6 Gauge)—6 m (20 Foot)
	5P5689	Wire—(No. 8 Gauge)—13 m (43 Foot)
	5P5624	Wire—(No. 14 Gauge)—18 m (59 Foot)
10	2L8057	Terminal (No. 10 Screw)
2	2L8058	Terminal (1/4" Screw)
2	2L8060	Terminal (3/8" Screw)
3	2L8061	Terminal (1/2" Screw) (Used with No. 8 Wire)
6	2L8075	Terminal (No. 8 Screw)
3	2L8077	Terminal (1/4" Screw)
1	2L8081	Terminal (1/2" Screw)
1	5P4571	Terminal (Tab)
1	5P5694	Connector (Tab) (Used with No. 14 Wire)
1	1L9899	Marker (Wire Code)
10	2L9724	Clip (2.50" Long)
50	8L8413	Tie (5.50" Long)
2	3S2093	Tie (7.31" Long)

2L9808 WIRING GROUP

Part of 6N589, 6N7140, 4N4948, 8N1689 and 8N1636 Alternator Groups

Consists of:

	5P5689	Wire—(No. 8 Gauge)—2 m (7 Foot)
	5P5675	Wire—(No. 6 Gauge)—3 m (10 Foot)
	6V2369	Wire—(No. 4 Gauge)—3 m (10 Foot)
2	2L8049	Terminal—(No. 10 Screw)
1	2L8050	Terminal—(1/4" Screw)
2	2L8052	Terminal—(3/8" Screw)
3	2L8054	Terminal—(1/2" Screw) (Used with No. 6 Wire)
2	2L8057	Terminal—(No. 10 Screw)
1	2L8058	Terminal—(1/4" Screw)
2	2L8060	Terminal—(3/8" Screw)
3	2L8061	Terminal—(1/2" Screw) (Used with No. 8 Wire)
2	9G4342	Terminal—(No. 10 Screw)
1	9G4343	Terminal—(1/4" Screw)
3	9G4344	Terminal—(1/2" Screw)
2	9G4336	Terminal—(3/8" Screw) (Used with No. 4 Wire)
2	3S2093	Tie (7.31" Long)
2	8L8413	Tie (5.50" Long)
2	2L9724	Clip (2.50" Long)
1	1L9899	Marker—(Wire Code)
1	4L2791	Marker

1N8509 WIRING KIT GROUP

Part of 6N588, 4N8365 & 6N7141 Alternator Mounting Groups

CONSISTS OF:		PAGE
1	3N7120 EQUIPMENT GROUP.....	174
1	2L3333 HYDRAULIC GAUGE	
1	2L8342 HYDRAULIC HAND PUMP	
2	2L8343 ACCUMULATOR	
2	6L2852 RESERVOIR MOUNTING STRAP	
1	6L2853 RESERVOIR ASSEMBLY	
1	6L4694 STARTER CONTROL VALVE	
1	6L8719 RECHARGING PUMP ASSEMBLY	
1	7L8656 HYDRAULIC CRANKING MOTOR	
1	2N3341 FILTER--HIGH PRESSURE	
1	3N6903 PULLEY	
1	3N6923 PUMP MOUNTING BRACKET	
4	3L4238 ACCUMULATOR BRACKET ASSEMBLY	
EACH INCLUDES:		
2	4B4277 WASHER	
2	5B5620 BOLT	
2	2L5683 CLAMP--ACCUMULATOR	
1	2L5684 SUPPORT--ACCUMULATOR CLAMP	
2	4M5280 NUT	
2	3N9503 ACCUMULATOR ASSEMBLY--PISTON TYPE	
EACH INCLUDES:		
1	1S8411 TAG	
1	3N9502 PLATE--WARNING	

HYDRAULIC STARTING SYSTEM (6L4040 N/S)
AN ATTACHMENT

CONSISTS OF:

4	2B2695	BOLT--PUMP TO BRACKET
4	3B4505	LOCKWASHER
2	3B7284	NIPPLE
2	5B8978	TEE
1	7B9684	VALVE
4	8B2664	BUSHING
1	2D58	UNION
2	2D8910	UNION
1	3D8884	ELBOW
1	4D4917	TEE
2	7D702	UNION
1	2H3940	UNION
3	2H9091	UNION
18	4H2243	COUPLING
2	4L7412	ADAPTER
2	5L5502	TEE
2	7L158	HOSE
1	3N6405	HOSE
2	3N6922	COUPLING
1	7O950	ADAPTER
3	8S2332	BOLT--MOTOR TO FLYWHEEL HOUSING

3N7120 EQUIPMENT GROUP
Part of Hydraulic Starting System listed on Page 173

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 Tractor Co. 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.

PIECES DE RECHANGE POUR GENERATRICES

Dans les pages suivantes, nous ne décrivons que les génératrices constante dont la vente et la réparation est assurée par les concessionnaires Caterpillar.

Les Groupes électrogènes Caterpillar à régulation externe sont équipés de génératrices fabriquées par d'autres constructeurs. Les pièces pour ces génératrices ne sont pas fournies par Caterpillar Tractor Co. Il convient donc de s'adresser au constructeur dont le nom figure sur la plaque de la génératrice pour toutes les listes de pièces et pour les commandes de pièces, en indiquant la puissance et le numéro de série de la génératrice.

REPUESTOS PARA GENERADORES

En las páginas siguientes solamente se ilustran los generadores que son vendidos y reparados exclusivamente por los Distribuidores Caterpillar.

Los Grupos Electrógenos "Caterpillar" de regulación externa están equipados con generadores de otros fabricantes. Caterpillar Tractor Co. no suministra repuestos para estos generadores. Las listas de repuestos y los repuestos mismos deberán pedirse al fabricante cuyo nombre aparece en la placa de identificación del generador, indicando siempre la capacidad de éste y su número de serie indicado.

PECAS DE SUBSTITUICAO PARA GERADORES

Estão ilustrados nas páginas seguintes somente os geradores vendidos e assistidos exclusivamente pelos revendedores Caterpillar.

As peças de substituição para os geradores dos Grupos Eletrógenos Caterpillar regulados externamente são fabricadas por outras firmas e não são fornecidas pela Caterpillar Tractor Co. Para obter qualquer delas, bem como os catálogos de peças, dirija-se à firma cujo nome aparece na chapa de identificação do gerador, acrescentando no pedido as especificações e o número de série do gerador.

ERSATZTEILE FÜR GENERATOREN

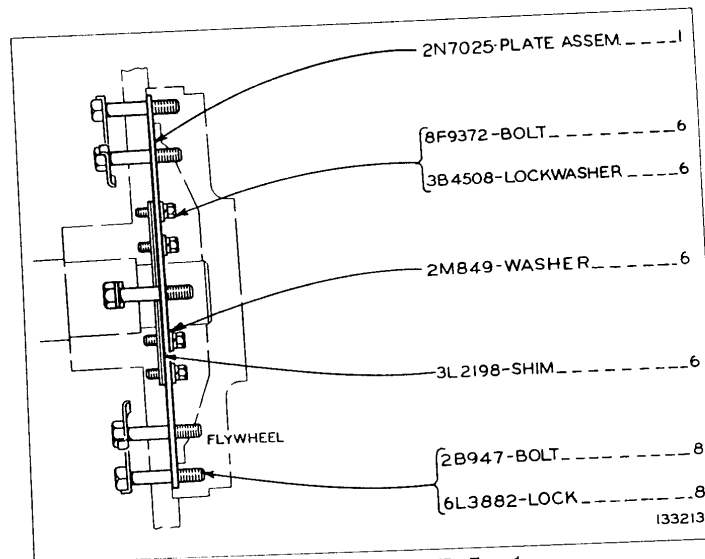
Nur diejenigen Generatoren welche ausschliesslich von CATERPILLAR Händlern verkauft und gewartet werden, sind auf den folgenden Seiten dargestellt.

Caterpillar Dieselstromaggregate mit Fremdregelung sind mit Generatoren ausgerüstet, die von anderen Herstellern erzeugt werden. Ersatzteile für solche Generatoren werden NICHT auf Grund von Caterpillar Ersatzteillisten geliefert sondern müssen jeweils bei dem auf dem Firmenschild angegebenen Hersteller des Generators unter Angabe der Leistung und Seriennummer desselben bestellt werden.

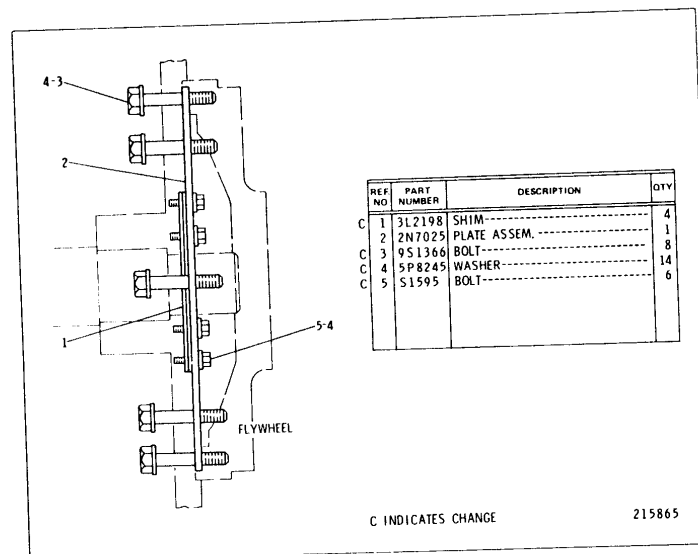
Consists of:

1	5N3153	Name Plate—Generator
	- or -	
1	1W7860	Name Plate—Generator
4	2K3219	Drive Screw—For Mounting Name Plate
1	S1566	Bolt—Customer Grounding Bolt
1	3B4510	Lockwasher—Use with Customer's Ground Bolt
1	5N3641	Panel—Front Exciter Box
1	1A6306	Bolt—Neutral Connection
2	3B4508	Lockwasher—Neutral Connection
2	L1365	Washer—Neutral Connection
2	1B4205	Nut—Neutral Connection
1	4B4281	Washer (Use with Grounding Bolt)
1	3L224	Dielectric Test
2	3N7723	Cable Assembly—Neutral Connection

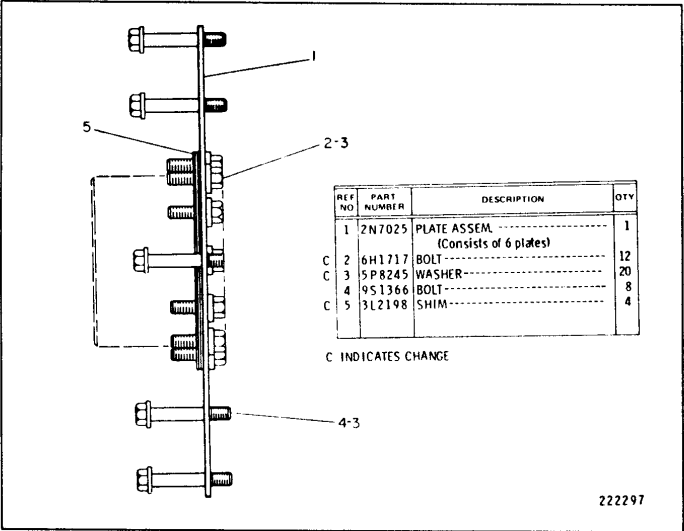
5N6691 ACCESSORY PLATES AND DECALOMANIA GROUP
FOR USE WITH CANADIAN STANDARD ASSOCIATION CERTIFIED
440 FRAME SIZE GENERATOR SET. AN ATTACHMENT



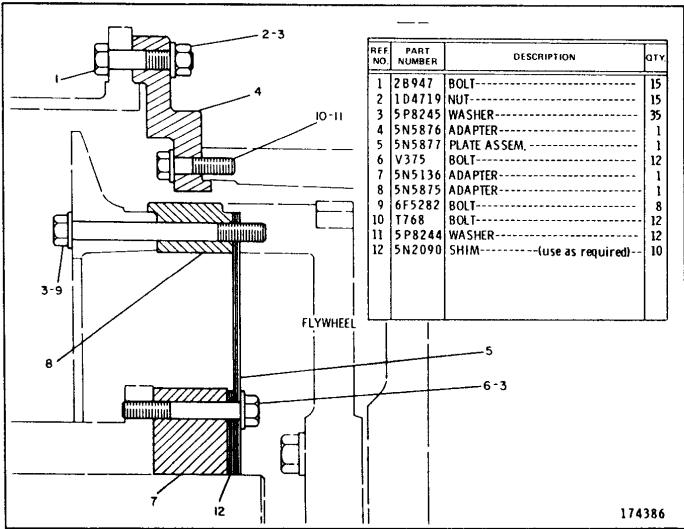
6L3916 COUPLING GROUP—Type 1
Part of 3N3143 Generator Installation Arrangement listed on Page 175



6L3916 COUPLING GROUP—Type 2
Part of 3N3143 Generator Installation Arrangement listed on Page 175



5N1627 GENERATOR DRIVE COUPLING GROUP
Part of 5N1629 Generator Installation Arrangement listed on Page 175
AN ATTACHMENT



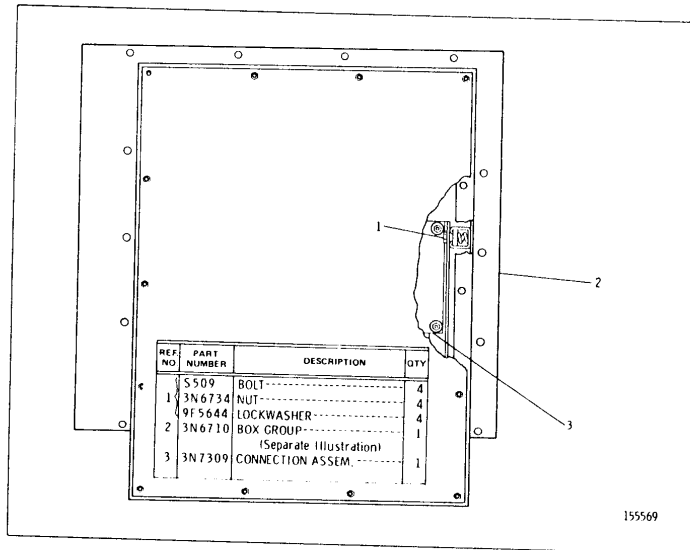
5N5891 GENERATOR DRIVE COUPLING GROUP
FOR USE WITH 5N64, 5N65, 5N66, 5N67, 5N68, 5N69, 5N70 AND 5N71 GENERATORS

CONSISTS OF:		PAGE
1	6L3916 COUPLING GROUP	174C
12	3H5368 BOLT--GENERATOR TO ENGINE	
12	5P8244 WASHER--GENERATOR TO ENGINE	

3N3143 GENERATOR INSTALLATION ARRANGEMENT
 Replaced by 5N1629 shown on Page 175
 AN ATTACHMENT

CONSISTS OF:		PAGE
1	5N1627 GENERATOR DRIVE COUPLING GROUP	174D
12	4S9191 WASHER--GENERATOR TO ENGINE	
12	T772 BOLT--GENERATOR TO ENGINE	

5N1629 GENERATOR INSTALLATION ARRANGEMENT
 FOR USE WITH SR4 GENERATOR
 AN ATTACHMENT



3N5567 GENERATOR CONNECTION BOX GROUP
FOR USE WITH SR4 GENERATOR, AN ATTACHMENT
3N6710 Box parts are shown on Page 177

		CONSISTS OF:	PAGE
1	3N6737	MOUNTING GROUP	176A-2
1	3N7051	MOUNTING GROUP	176A
1	3N6711	EXTENSION BOX COVER	
1	3N6679	CIRCUIT BREAKER--400 AMPERES	
1	3N6683	CIRCUIT BREAKER--800 AMPERES	
1	3N6684	CIRCUIT BREAKER--1000 AMPERES	
1	5N3358	CIRCUIT BREAKER--1000 AMPERES	
1	5N3359	CIRCUIT BREAKER--800 AMPERES	
1	5N3360	CIRCUIT BREAKER--700 AMPERES	
1	5N3361	CIRCUIT BREAKER--600 AMPERES	
1	5N3363	CIRCUIT BREAKER--400 AMPERES	
1	5N3349	CIRCUIT BREAKER--350 AMPERES	
1	5N3364	CIRCUIT BREAKER--300 AMPERES	
1	3N9325	NEUTRAL EXTENSION CABLE ASSEMBLY	
1	3N9326	LINE EXTENSION CABLE ASSEMBLY	

3N7052 CIRCUIT BREAKER CHART—Standby Power
FOR USE WITH 3N6710 EXTENSION TERMINAL BOX GROUP SHOWN ON PAGE 177

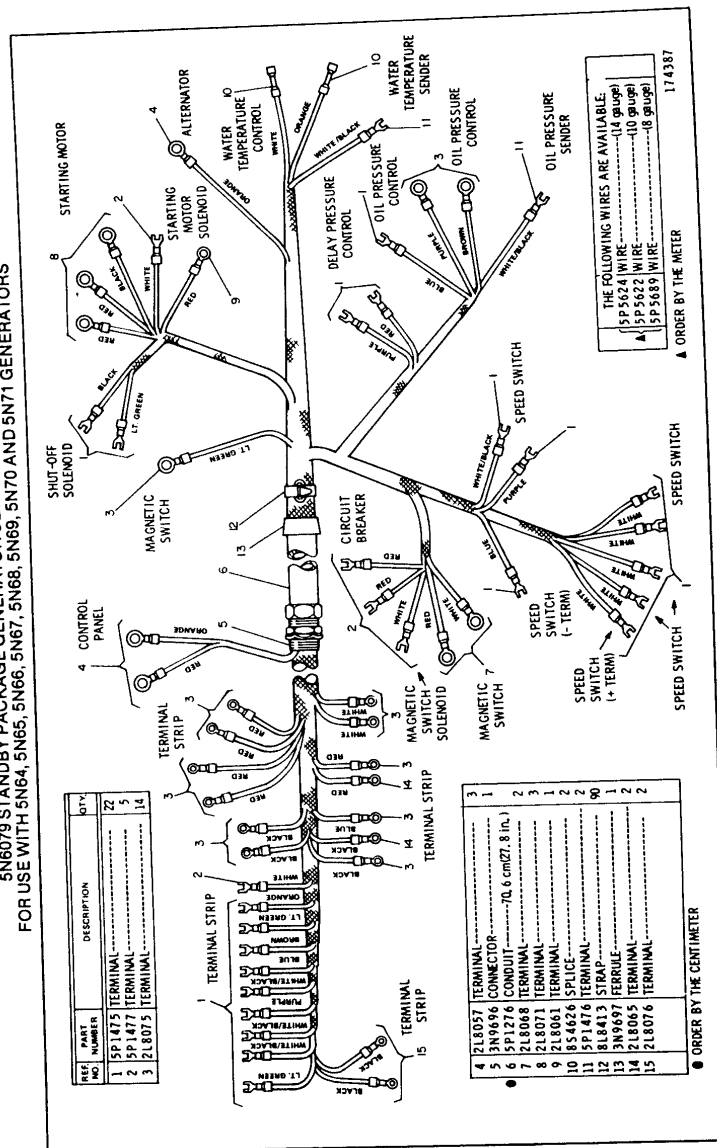
CONSISTS OF:

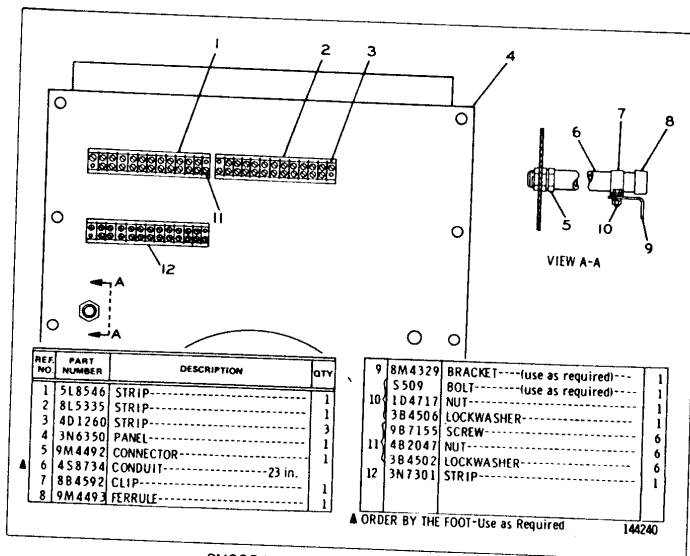
PAGE

1	3N6737	CIRCUIT BREAKER MOUNTING GROUP	176A-2
1	3N7051	CIRCUIT BREAKER MOUNTING GROUP	176A
1	3N6711	EXTENSION TERMINAL BOX COVER	
1	3N6678	CIRCUIT BREAKER--300 AMPERES	
1	3N6681	CIRCUIT BREAKER--600 AMPERES	
1	3N6682	CIRCUIT BREAKER--700 AMPERES	
1	3N6683	CIRCUIT BREAKER--800 AMPERES	
1	3N7557	CIRCUIT BREAKER--350 AMPERES	
1	5N3349	CIRCUIT BREAKER--350 AMPERES	
1	5N3359	CIRCUIT BREAKER--800 AMPERES	
1	5N3360	CIRCUIT BREAKER--700 AMPERES	
1	5N3361	CIRCUIT BREAKER--600 AMPERES	
1	5N3364	CIRCUIT BREAKER--300 AMPERES	
1	3N7723	NEUTRAL EXTENSION CABLE ASSEMBLY	
1	3N9325	NEUTRAL EXTENSION CABLE ASSEMBLY	
1	3N7724	LINE EXTENSION CABLE ASSEMBLY	
1	3N9326	LINE EXTENSION CABLE ASSEMBLY	

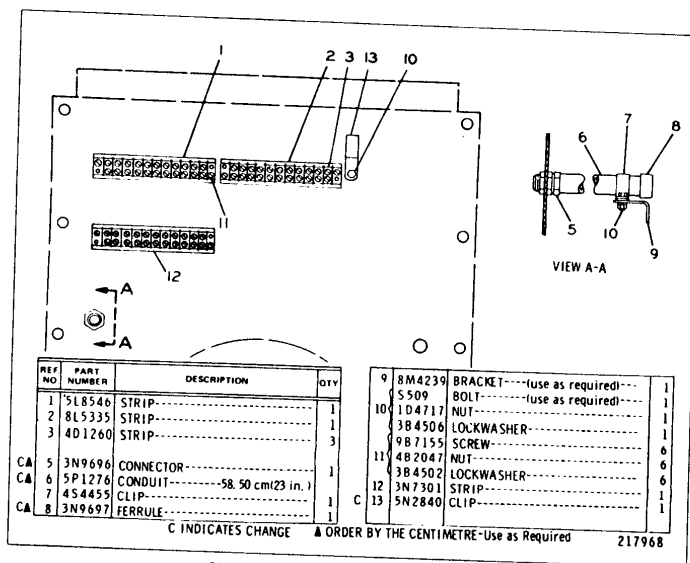
5N2703 CIRCUIT BREAKER CHART--Prime Power
 FOR USE WITH 3N6710 EXTENSION TERMINAL BOX GROUP SHOWN ON PAGE 177

5N8079 STANDBY PACKAGE GENERATOR SET HARNESS ASSEMBLY
FOR USE WITH 5N64, 5N65, 5N66, 5N67, 5N68, 5N69, 5N70 AND 5N71 GENERATORS



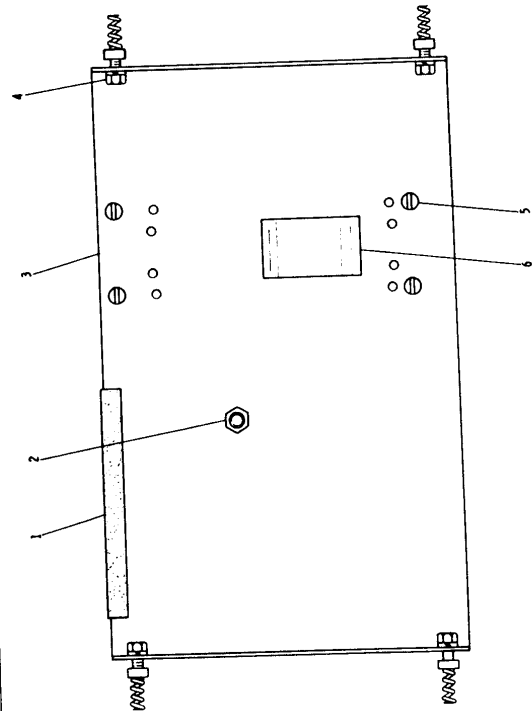


3N6354 PANEL ASSEMBLY—Type 1
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT



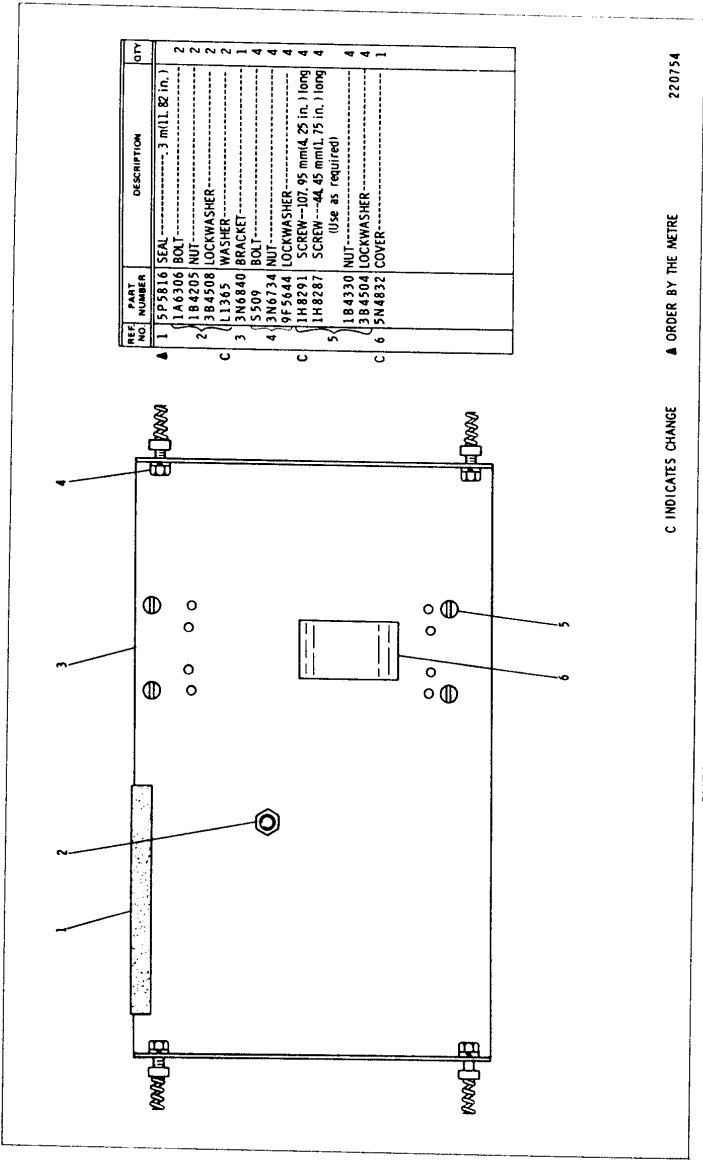
3N6354 PANEL ASSEMBLY—Type 2
Refer to Chart shown on Page 140A for usage
AN ATTACHMENT

3N7051 CIRCUIT BREAKER MOUNTING GROUP—Type 1
FOR USE WITH 3N6710 EXTENSION TERMINAL BOX SHOWN ON PAGE 177
Part of 3N7052 and 5N2703 Circuit Breaker Charts shown on Pages 176-1 and 176-2



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	5P5816 SEAL	-----, 3 mil. 82 in.	2
2	1A5306 BOLT	-----	2
3	1A5305 NUT	-----	2
4	3B4508 LOCKWASHER	-----	2
5	1L365 WASHER	-----	1
6	3N6840 BRACKET	-----	4
7	S509 BOLT	-----	4
8	3N6734 NUT	-----	4
9	9F5644 LOCKWASHER	-----	4
10	1H8291 SCREW--107.95 mm 4.25 in. long	-----	4
11	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
12	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
13	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
14	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
15	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
16	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
17	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
18	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
19	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
20	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
21	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
22	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
23	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
24	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
25	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
26	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
27	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
28	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
29	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
30	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
31	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
32	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
33	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
34	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
35	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
36	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
37	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
38	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
39	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
40	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
41	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
42	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
43	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
44	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
45	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
46	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
47	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
48	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
49	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
50	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
51	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
52	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
53	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
54	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
55	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
56	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
57	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
58	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
59	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
60	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
61	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
62	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
63	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
64	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
65	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
66	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
67	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
68	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
69	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
70	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
71	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
72	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
73	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
74	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
75	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
76	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
77	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
78	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
79	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
80	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
81	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
82	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
83	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
84	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
85	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
86	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
87	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
88	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
89	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
90	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
91	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
92	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
93	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
94	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
95	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
96	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
97	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
98	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
99	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4
100	1H8287 SCREW--44.45 mm 1.75 in. long	-----	4

C INDICATES CHANGE ▲ ORDER BY THE METRE 217977

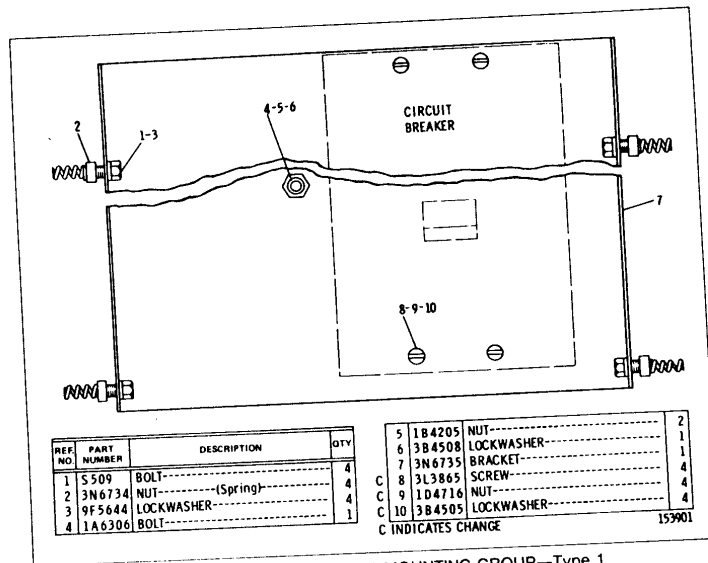


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	3P5816	SEAL-----3 mm(L 82 in.)	2
2	1A3581	BOLT-----	2
3	1B4205	NUT-----	2
4	1B4508	LOCKWASHER-----	2
5	1L1365	WASHER-----	2
6	3N6840	BRACKET-----	1
7	5509	BOLT-----	4
8	3N6734	NUT-----	4
9	9F5644	LOCKWASHER-----	4
10	1H8291	SCREW---107.95 mm(L 25 in.) long	4
11	1H8287	SCREW---44.45 mm(L 75 in.) long	4
12	1B4330	NUT-----	4
13	1B4504	LOCKWASHER-----	4
14	5N4832	COVER-----	1

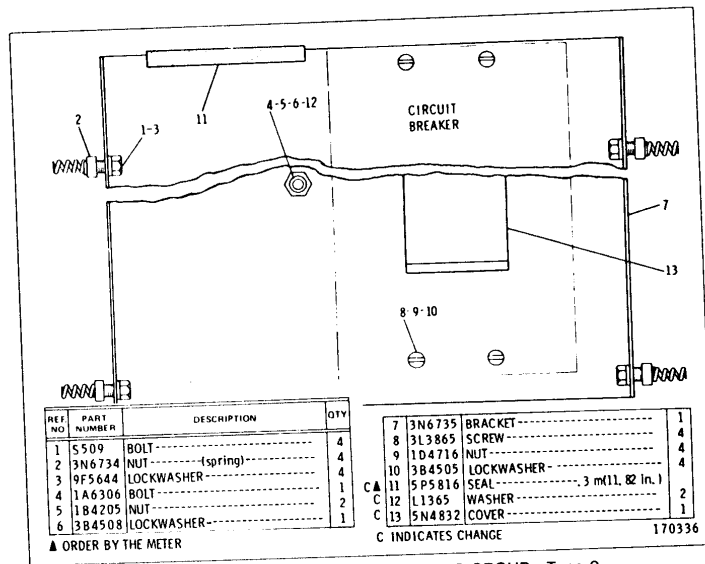
C INDICATES CHANGE ▲ ORDER BY THE METRE

220754

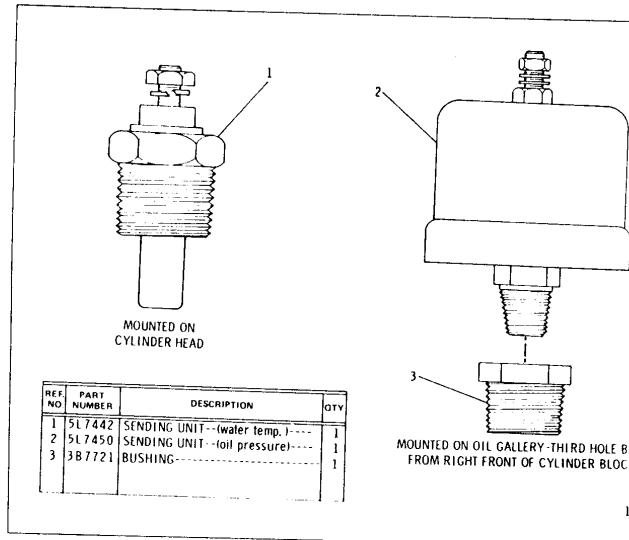
3N7051 CIRCUIT BREAKER MOUNTING GROUP—Type 2
FOR USE WITH 3N6710 EXTENSION TERMINAL BOX GROUP SHOWN ON PAGE 177
Part of 3N7052 and 5N2703 Circuit Breaker Charts shown on Pages 176-1 and 176-2



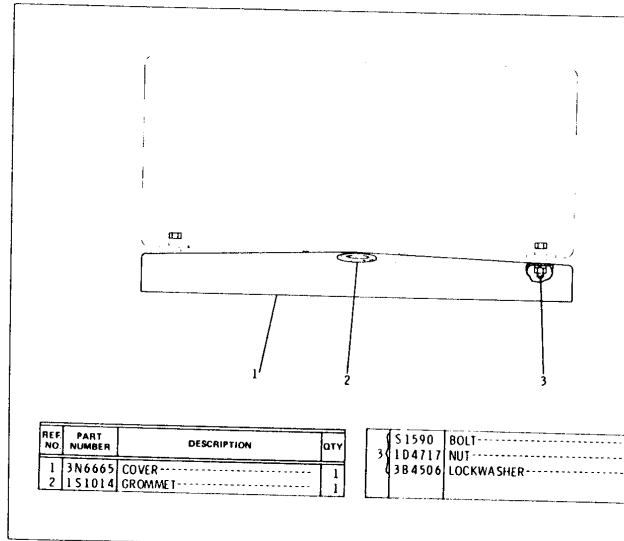
3N6737 CIRCUIT BREAKER MOUNTING GROUP—Type 1
Part of 3N7052 and 5N2703 Circuit Breaker Charts shown on Pages 176-1 and 176-2



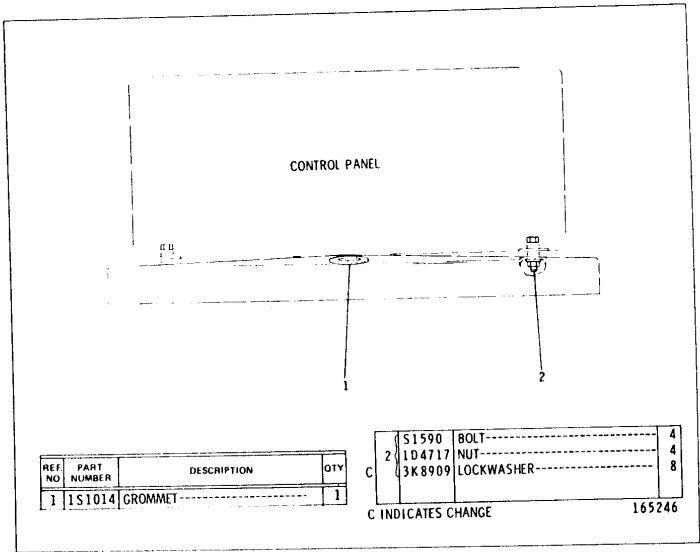
3N6737 CIRCUIT BREAKER MOUNTING GROUP—Type 2
Part of 3N7052 and 5N2703 Circuit Breaker Charts shown on Pages 176-1 and 176-2



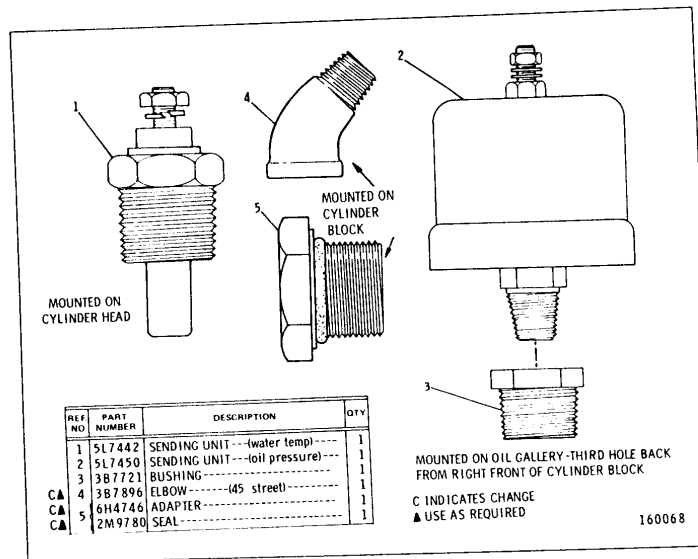
3N8246 SENDER GROUP—24 Volt—Type 1
FOR USE WITH PACKAGED GENERATOR SET
AN ATTACHMENT



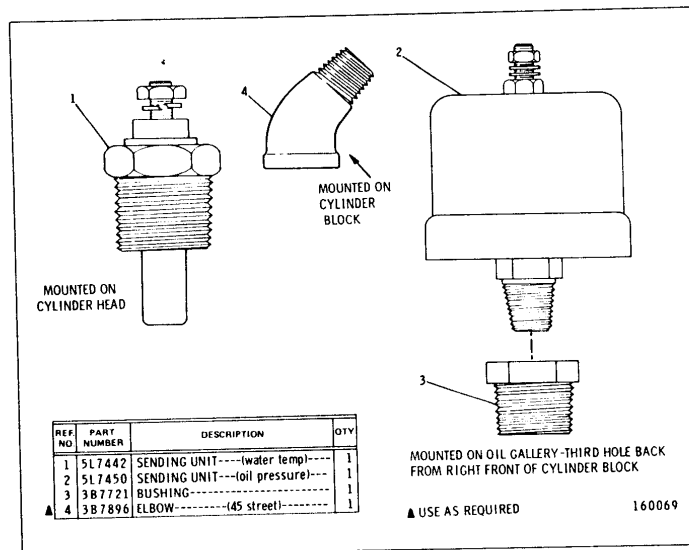
3N7053 CONTROL PANEL MOUNTING GROUP
Replaced by 3N8873 shown on Page 176B-1
AN ATTACHMENT



3N8873 CONTROL PANEL MOUNTING GROUP
FOR USE WITH PACKAGED GENERATOR SET
AN ATTACHMENT



3N8246 SENDER GROUP—24 Volt—Type 2
FOR USE WITH PACKAGED GENERATOR SET
AN ATTACHMENT

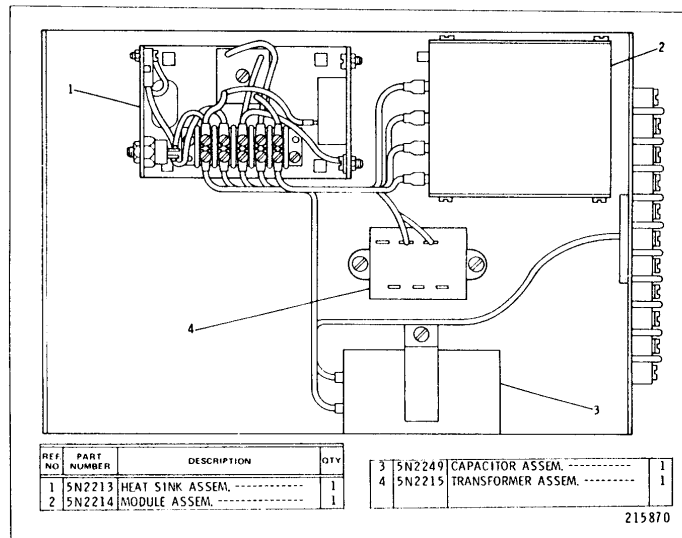


3N8246 SENDER GROUP—24 Volt—Type 3
FOR USE WITH PACKAGED GENERATOR SET
AN ATTACHMENT

CONSISTS OF:

- 1 5N4223 MANUAL VOLTAGE CONTROL ASSEMBLY
- 1 5N4224 MANUAL VOLTAGE PANEL ASSEMBLY
- 1 5N4189 WIRING DIAGRAM AND INSTALLATION INSTRUCTIONS

5N1613 MANUAL VOLTAGE CONTROL GROUP
FOR USE WITH SR4 GENERATORS
AN ATTACHMENT



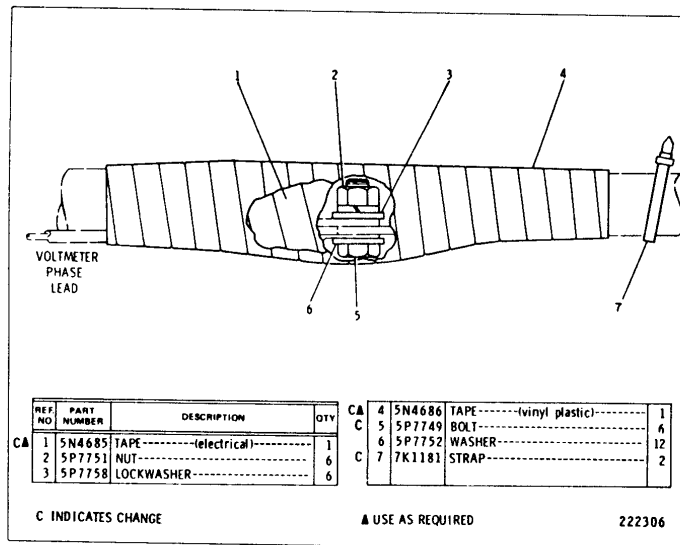
5N4261 SERIES BOOST PANEL GROUP
FOR USE WITH SR4 GENERATORS
AN ATTACHMENT

CONSISTS OF:		PAGE
1	5N4513 GENERATOR LEADS CONNECTION GROUP	176F
1	5N3173 WIRING DIAGRAM---SERIES BOOST	
1	5N4246 TRANSFORMER CONNECTION DIAGRAM	
1	5N4252 CURRENT TRANSFORMER	
4	347748 SCREW--TRANSFORMER MOUNTING	
1	 PRINT OF 5N4513 CONNECTION GROUP	
1	 PRINT OF 5N4246 CONNECTION DIAGRAM	

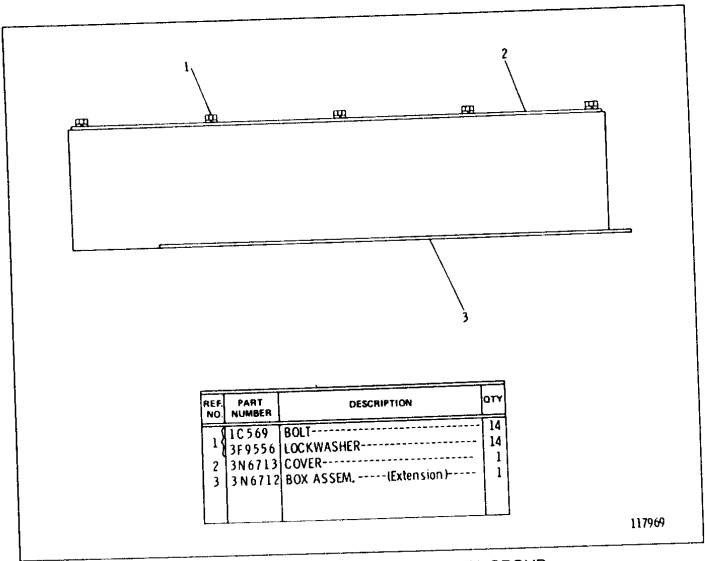
5N4254 CURRENT TRANSFORMER GROUP
FOR USE WITH 5N4261 PANEL AND SR4 GENERATORS
AN ATTACHMENT

CONSISTS OF:		PAGE
1	5N4513 GENERATOR LEADS CONNECTION GROUP	176F
1	5N3173 SERIES BOOST WIRING DIAGRAM	
1	5N4245 TRANSFORMER CONNECTION DIAGRAM	
1	5N4249 CURRENT TRANSFORMER	
4	347748 SCREW--TRANSFORMER MOUNTING	
1	 PRINT OF 5N4513 CONNECTION GROUP	
1	 PRINT OF 5N4245 CONNECTION DIAGRAM	

5N4256 CURRENT TRANSFORMER GROUP
FOR USE WITH 5N4261 PANEL AND SR4 GENERATORS
AN ATTACHMENT



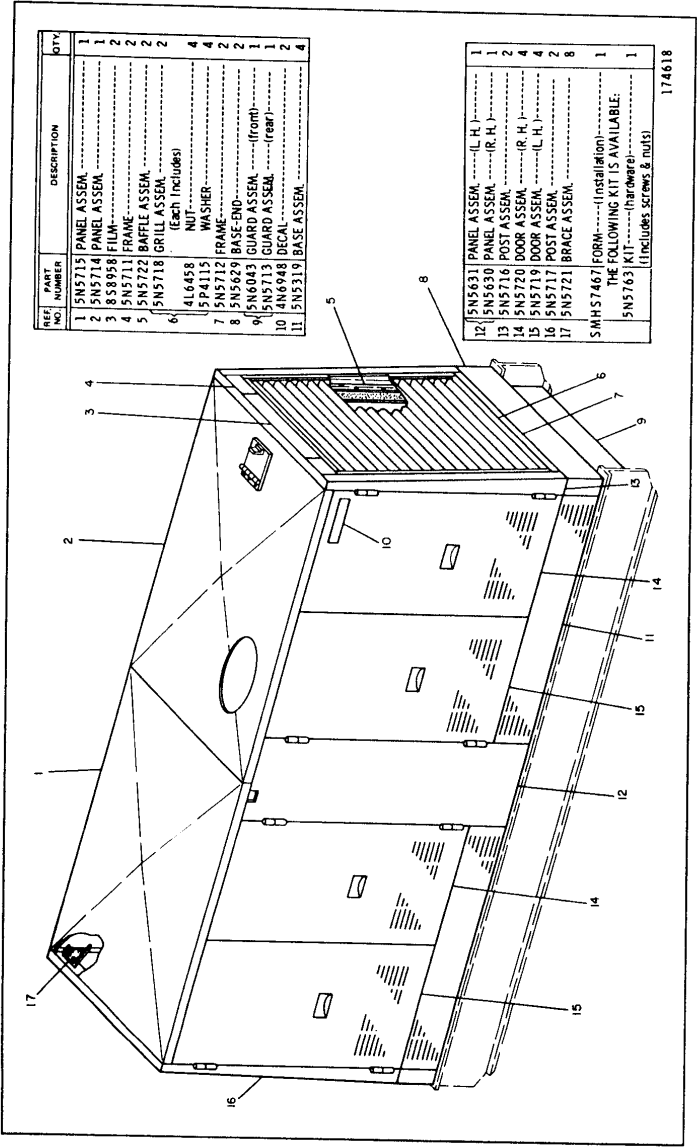
5N4513 GENERATOR LEADS CONNECTION GROUP
 FOR USE WITH SR4 GENERATORS
 Part of 5N4254 & 5N4256 Transformer Groups shown on Page 176E



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	1C569	BOLT-----	14
1	3F9556	LOCKWASHER-----	14
2	3N6713	COVER-----	1
3	3N6712	BOX ASSEM. -----(Extension)-----	1

117969

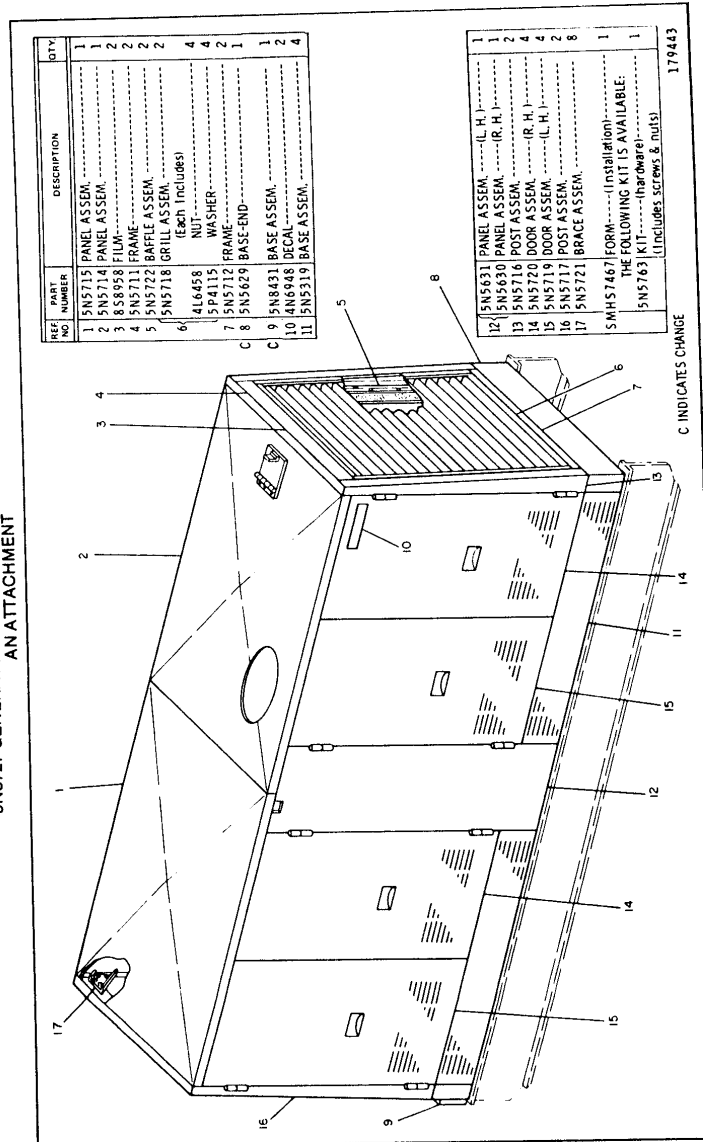
3N6710 EXTENSION TERMINAL BOX GROUP
Also part of 3N567 Generator Connection Box Group shown on Page 176
FOR USE WITH STAND-BY ELECTRIC SET. AN ATTACHMENT

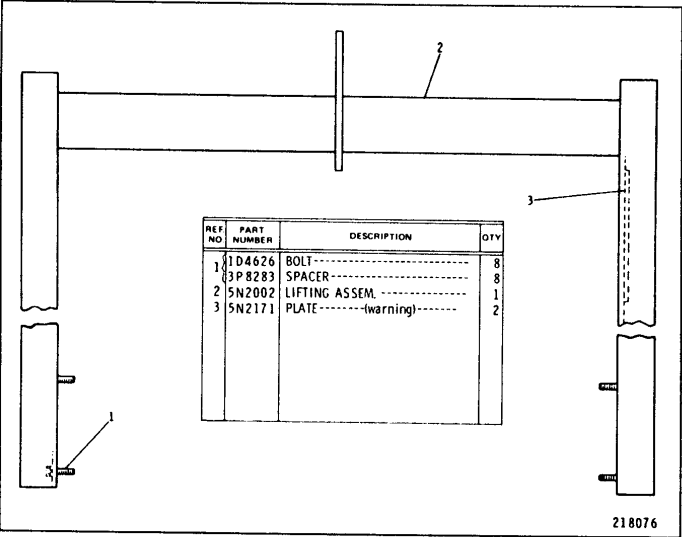


SN5727 GENERATOR SET ENCLOSURE GROUP—Type 1
AN ATTACHMENT

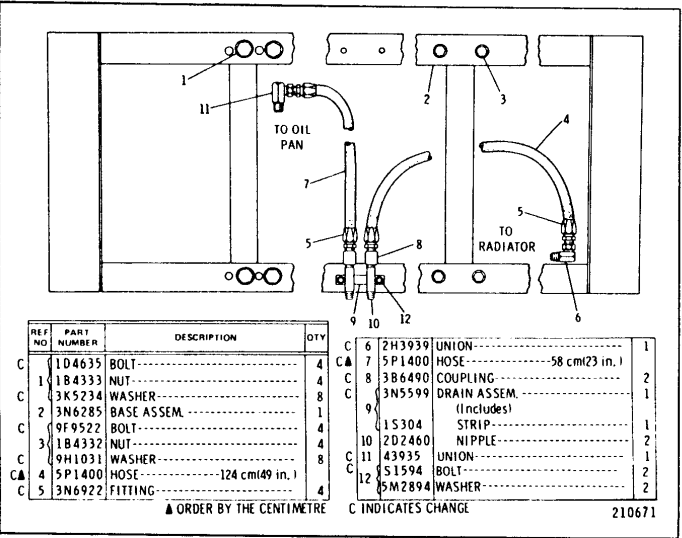
174618

5N5727 GENERATOR SET ENCLOSURE GROUP—Type 2
AN ATTACHMENT



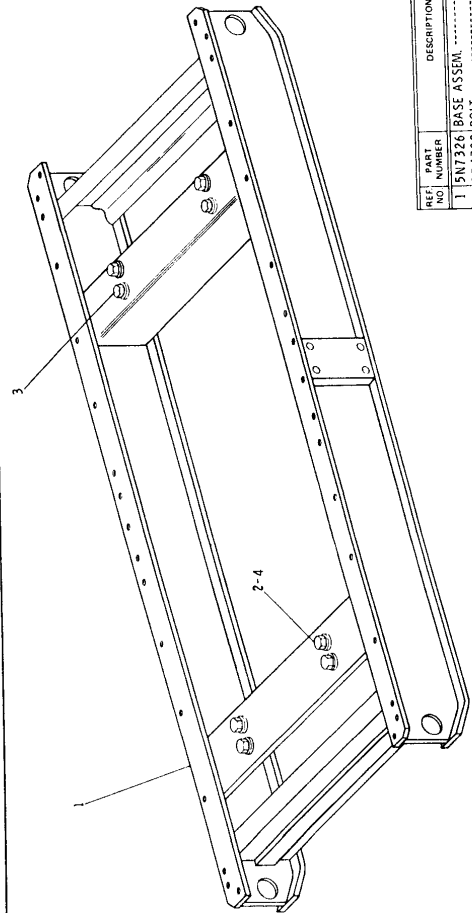


5N2003 LIFTING GROUP—Packaged Generator Set
AN ATTACHMENT



3N6287 ENGINE BASE GROUP—Electric Set
AN ATTACHMENT

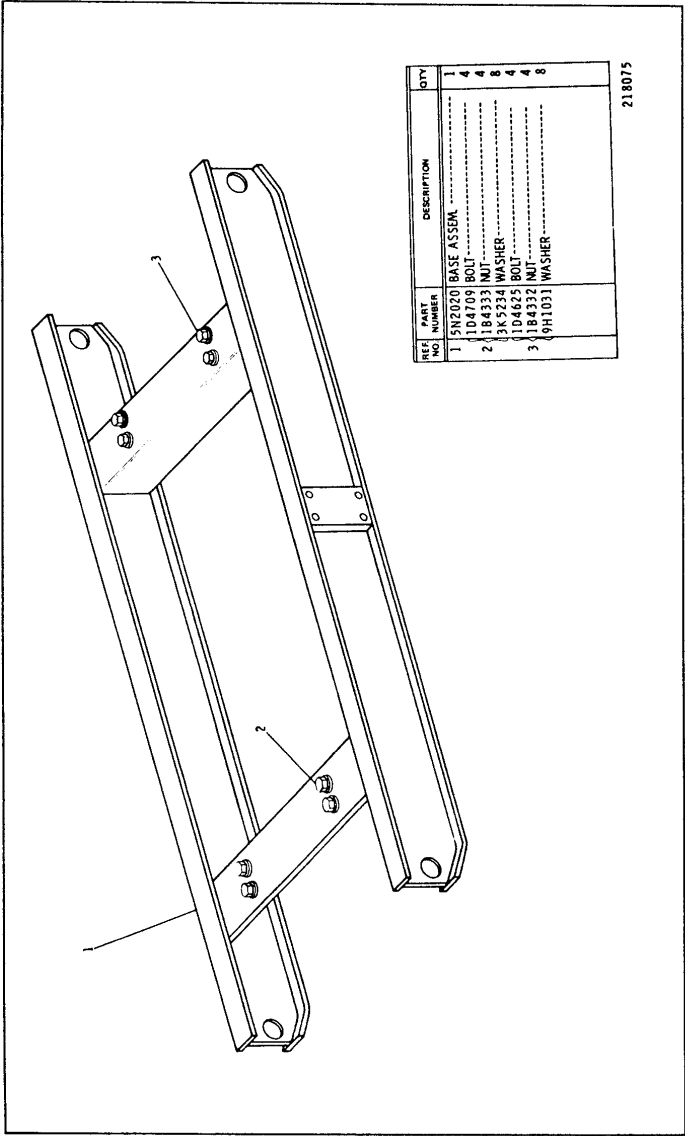
8N7325 ENGINE BASE GROUP—Electric Set and Enclosure
FOR USE WITH 8N5727 GENERATOR SET ENCLOSURE, AN ATTACHMENT



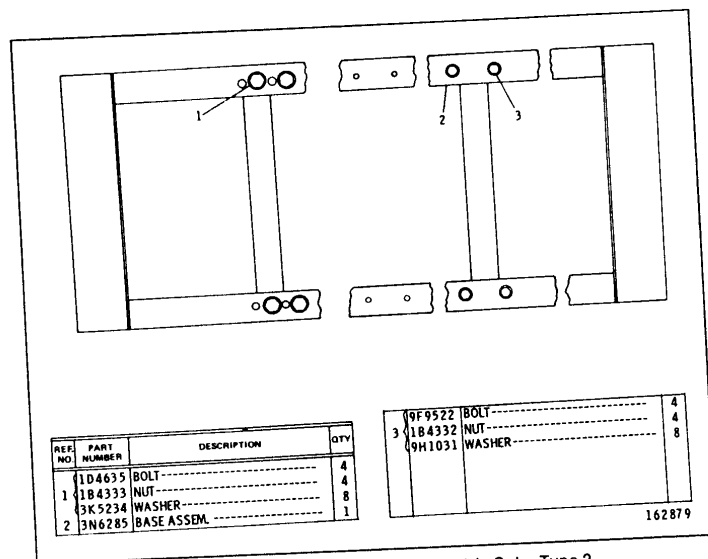
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	8N7326	BASE ASSEM.	1
2	1D4709	BOLT	4
3	184333	NUT	4
4	3K5234	WASHER	8
5	1D4625	BOLT	4
6	184332	NUT	4
7	9H1031	WASHER	8
8	5L3638	SHIM	8

▲ USE AS REQUIRED

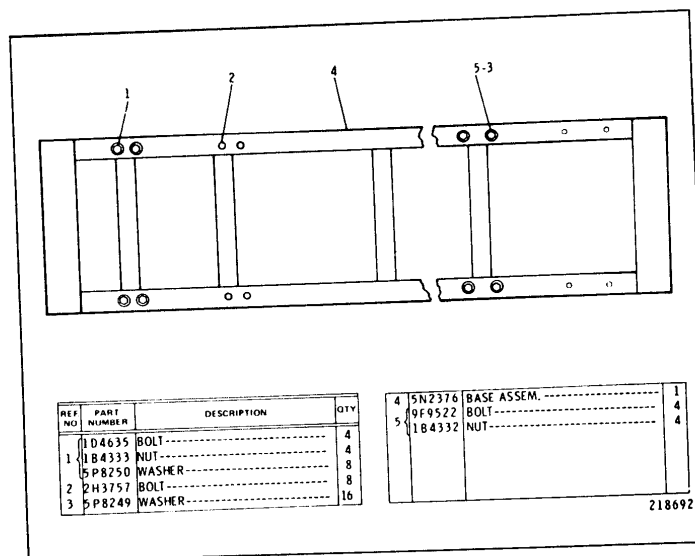
23252



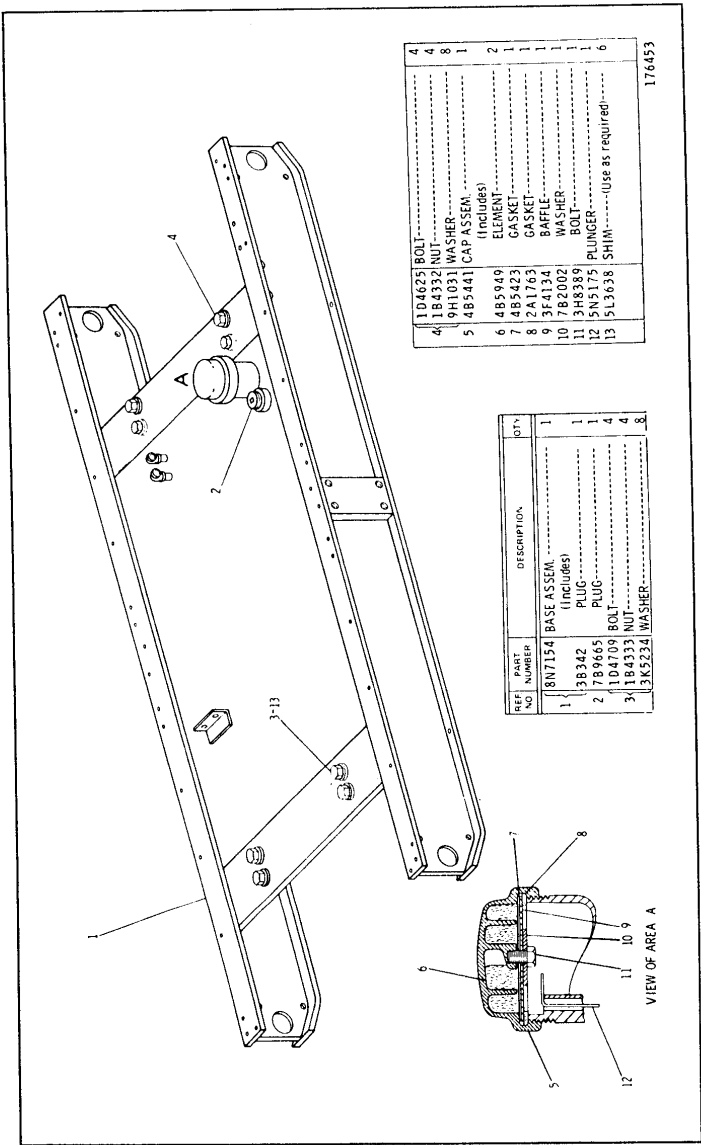
5N2017 ENGINE BASE GROUP
FOR USE WITH PACKAGED GENERATOR SET
AN ATTACHMENT



3N6287 ENGINE BASE GROUP—Electric Set—Type 2
 Replaced by 5N2377 shown on Page 141A. Note: Refer to Page 40A for Drain Lines
 AN ATTACHMENT

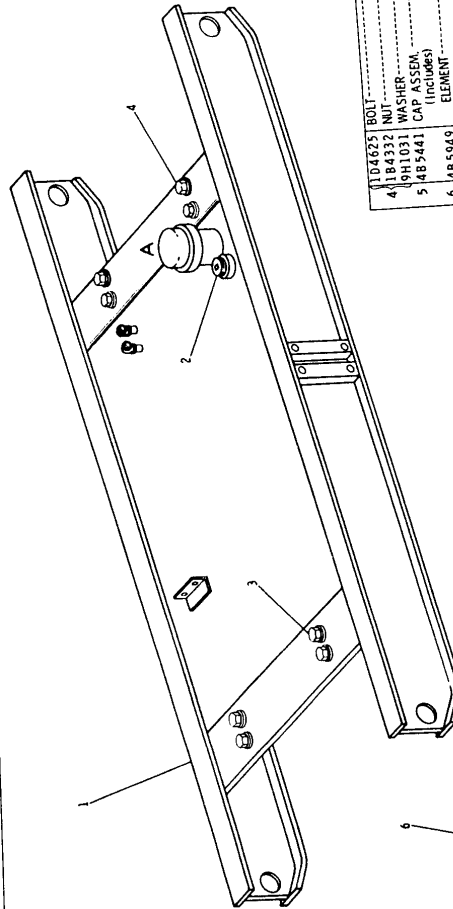


5N2377 ENGINE BASE GROUP
 FOR USE WITH SR-4 GENERATORS. AN ATTACHMENT



8N7153 FUEL TANK AND BASE GROUP
FOR USE WITH AN ENCLOSURE, AN ATTACHMENT

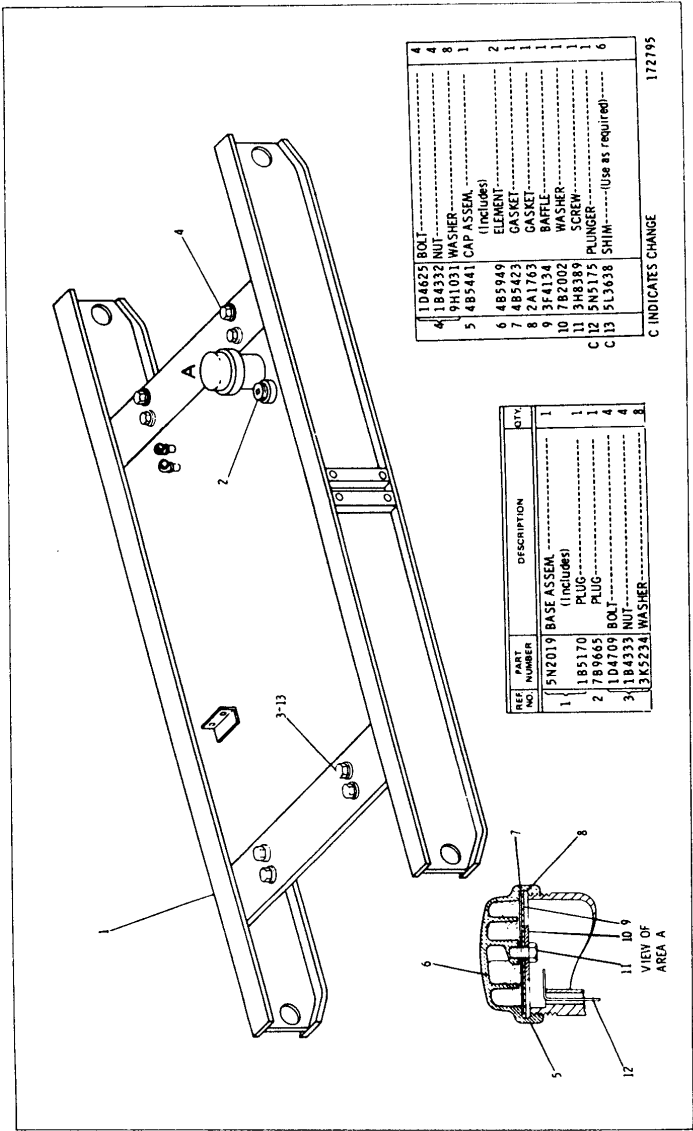
5N2016 FUEL TANK AND BASE GROUP—Type 1
FOR USE WITH PACKAGED GENERATOR SET
AN ATTACHMENT



REF	PART NUMBER	DESCRIPTION	QTY
1	5N2016	BASE ASSEMBLY (Includes)	1
2	1B5170	PLUG	1
3	1B5170	PLUG	1
4	1B5170	PLUG	1
5	1B5170	PLUG	1
6	1B5170	PLUG	1
7	1B5170	PLUG	1
8	1B5170	PLUG	1

1	1B4425	BOLT	4
2	1B4332	NUT	8
3	1B4332	WASHER	1
4	1B4332	WASHER	1
5	1B4332	WASHER	1
6	1B4332	WASHER	1
7	1B4332	WASHER	1
8	1B4332	WASHER	1
9	1B4332	WASHER	1
10	1B4332	WASHER	1
11	1B4332	WASHER	1
12	1B4332	WASHER	1

21 8074



4	104625	BOLT	
4	184353	NUT	
8	9H1031	WASHER	
1	5	485441	CAP ASSEM
2		(Includes)	
	6	485949	ELEMENT
	7	485423	GASKET
	8	241763	GASKET
	9	3F4134	BAFLE
	10	782002	WASHER
	11	3H8389	SCREW
	12	5N5175	PLUNGER
	13	5L3638	SHIM

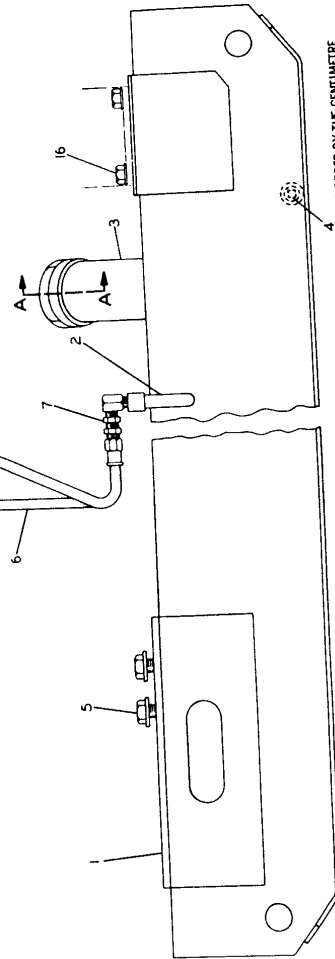
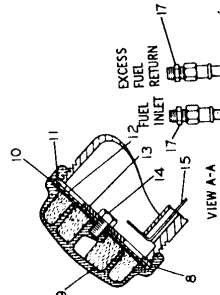
C INDICATES CHANGE 172795

5N2016 FUEL TANK AND BASE GROUP—Type 2
FOR USE WITH PACKAGED GENERATOR SET
AN ATTACHMENT

5N3208 FUEL TANK AND BASE GROUP—Electric Set
FOR USE WITH SR4 GENERATORS

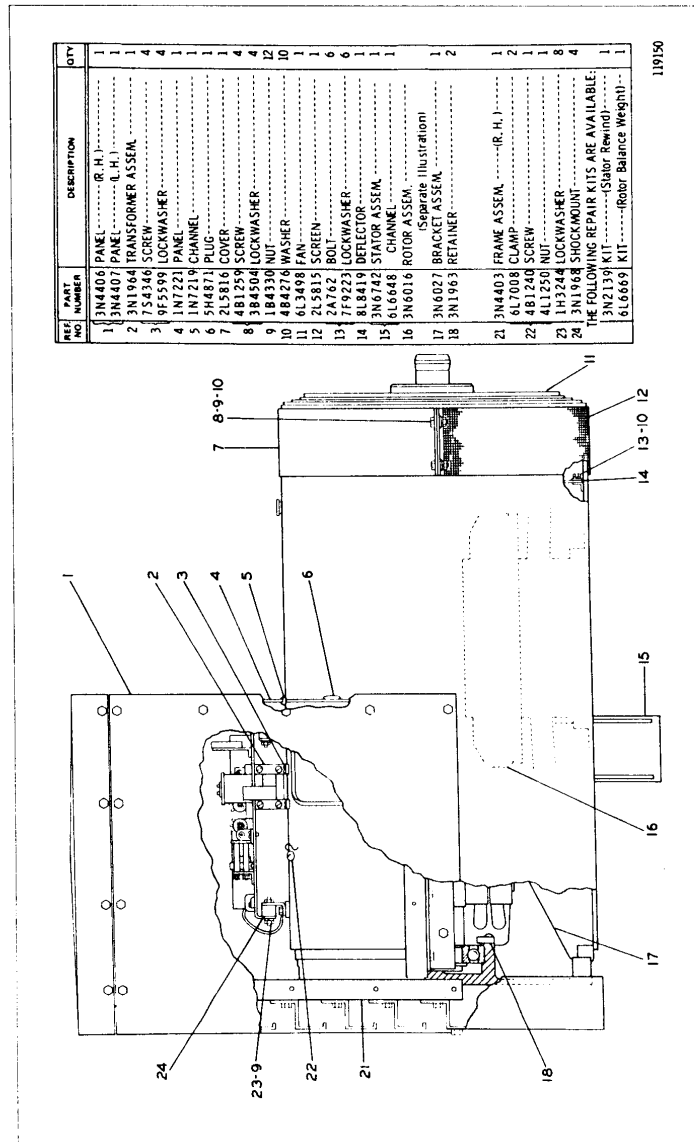
PART NUMBER	DESCRIPTION	QTY
1 5N3207	BASE AND FUEL TANK ASSEM. (includes)	1
2 581309	COUPLING	2
3 5L8259	PIPE ASSEM.	1
4 1B3701	PLUG	1
5 1B4333	BOLT	1
6 1B4333	NUT	1
7 5K2224	WASHER	126 cm320.04 In.
8 5P1412	HOSE	2
9 4D577	UNION	2

8 4B5441	CAP ASSEM. (includes)	1
9 4B5949	ELEMENT	2
10 4B5423	GASKET	1
11 2A1763	GASKET	1
12 3FA134	BAFFLE	1
13 7B2002	WASHER	1
14 3H8389	SCREW	1
15 6L8860	PLUNGER	1
16 9F9522	BOLT	4
17 1B4332	NUT	4
18 9H1031	WASHER	8
19 3N7281	FITTING	4

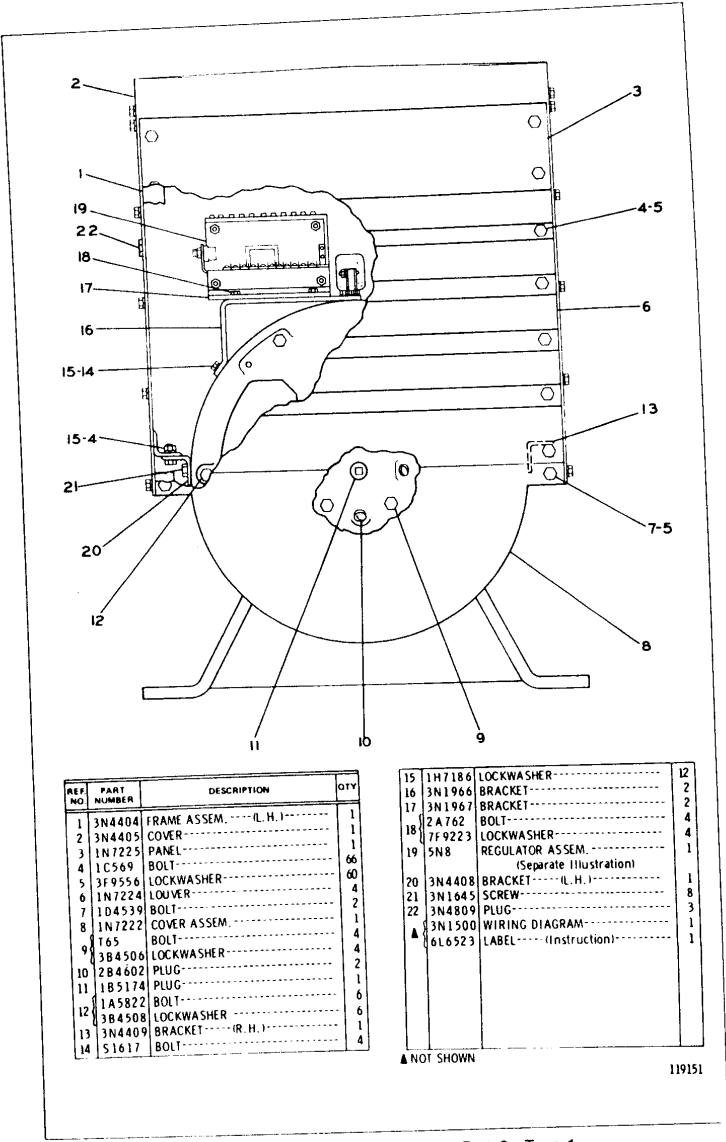


210674

▲ ORDER BY THE CENTIMETRE



5N30 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 185BS100—Up
 208-416 Volt, 60 hertz at 1800 R.P.M.
 3N6016 Rotor parts are shown on Page 197



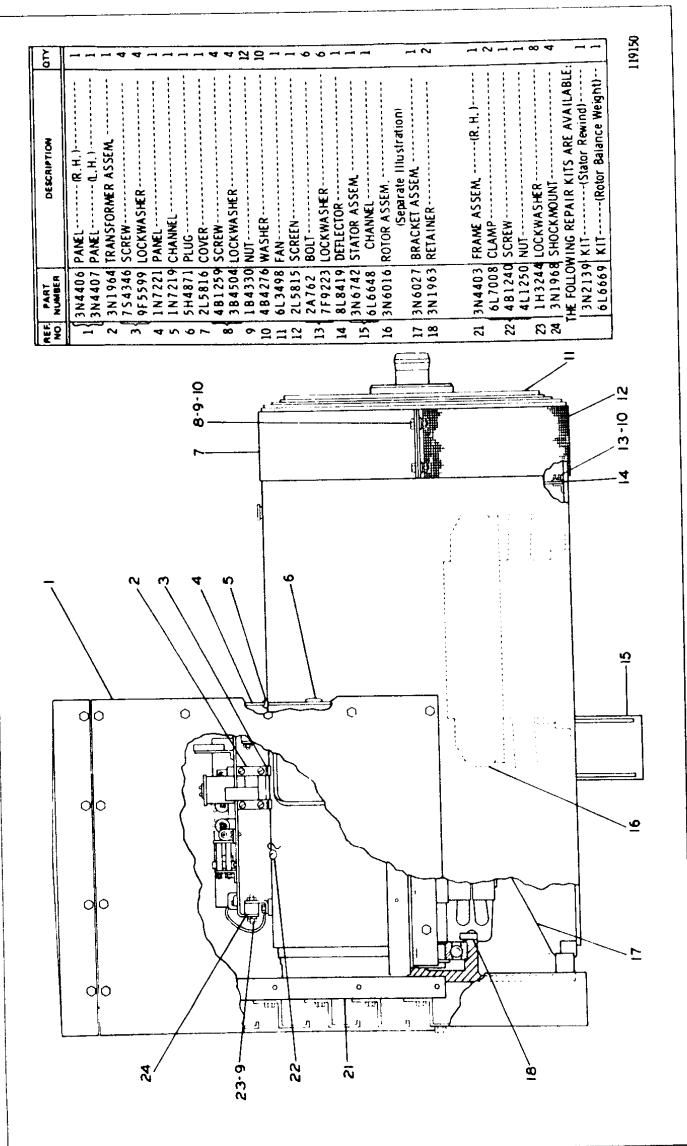
REF NO	PART NUMBER	DESCRIPTION	QTY
1	3N4404	FRAME ASSEM. (L.H.)	1
2	3N4405	COVER	1
3	1N7223	PANEL	1
4	1C559	BOLT	66
5	3C956	LOCKWASHER	60
6	1N7224	LOUVER	4
7	1D4539	BOLT	2
8	1N7222	COVER ASSEM.	1
9	T65	BOLT	4
10	3B4506	LOCKWASHER	4
11	2B4602	PLUG	2
12	1B5174	PLUG	1
13	1A5822	BOLT	6
14	3B4508	LOCKWASHER	6
15	3N4409	BRACKET (R.H.)	1
16	S1617	BOLT	4

15	1H7186	LOCKWASHER	12
16	3N1966	BRACKET	2
17	3N1967	BRACKET	2
18	2A762	BOLT	4
19	7F9223	LOCKWASHER	4
20	5N8	REGULATOR ASSEM. (Separate Illustration)	1
21	3N4408	BRACKET (L.H.)	1
22	3N1645	SCREW	8
	3N4809	PLUG	3
	3N1500	WIRING DIAGRAM	1
	6L6523	LABEL (Instruction)	1

▲ NOT SHOWN

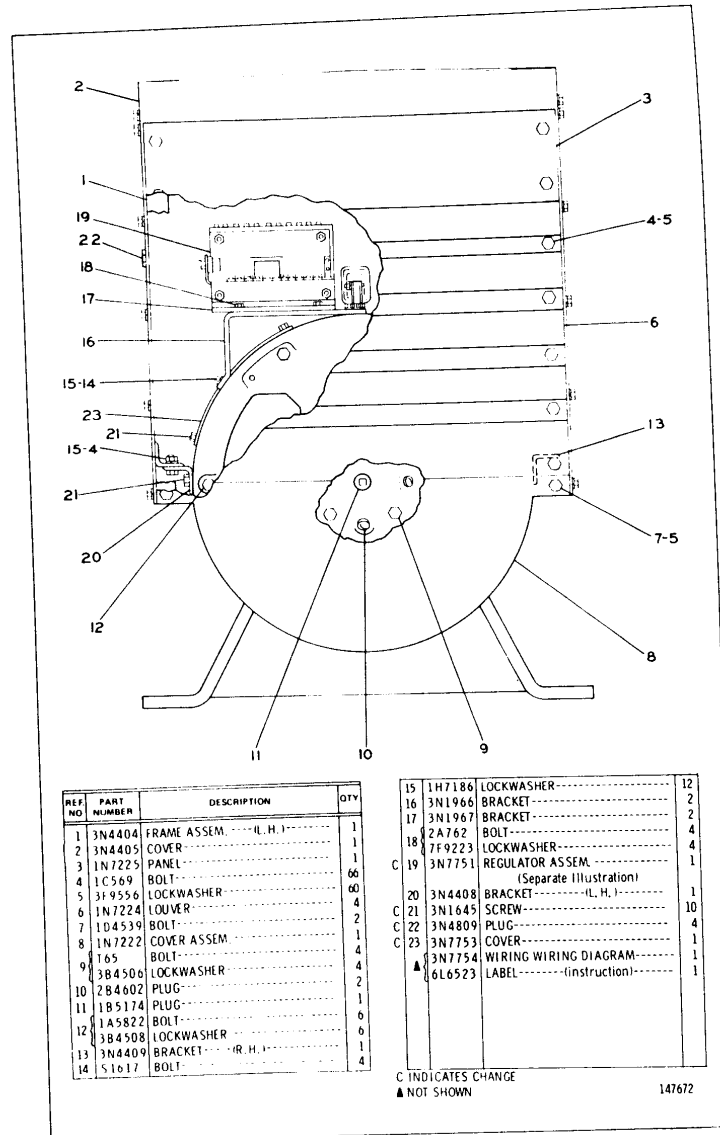
119151

5N30 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 185BS100—Up
 208-416 Volt, 60 hertz at 1800 R.P.M.
 5N8 Regulator parts are shown on Page 194

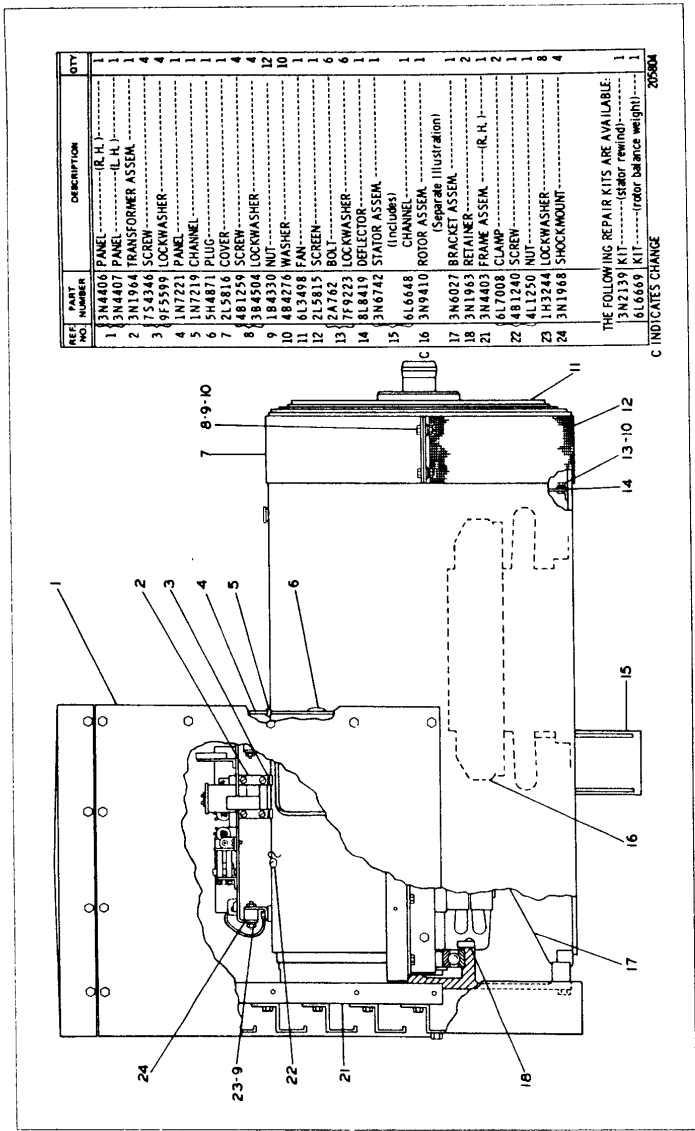


5N30 GENERATOR—3 Phase—Part 1—Type 2
Generator Serial No. 47BS300 to 47BS599 inclusive, 208-416 Volt, 60 hertz at 1800 R.P.M.
3N6016 Rotor parts are shown on Page 197

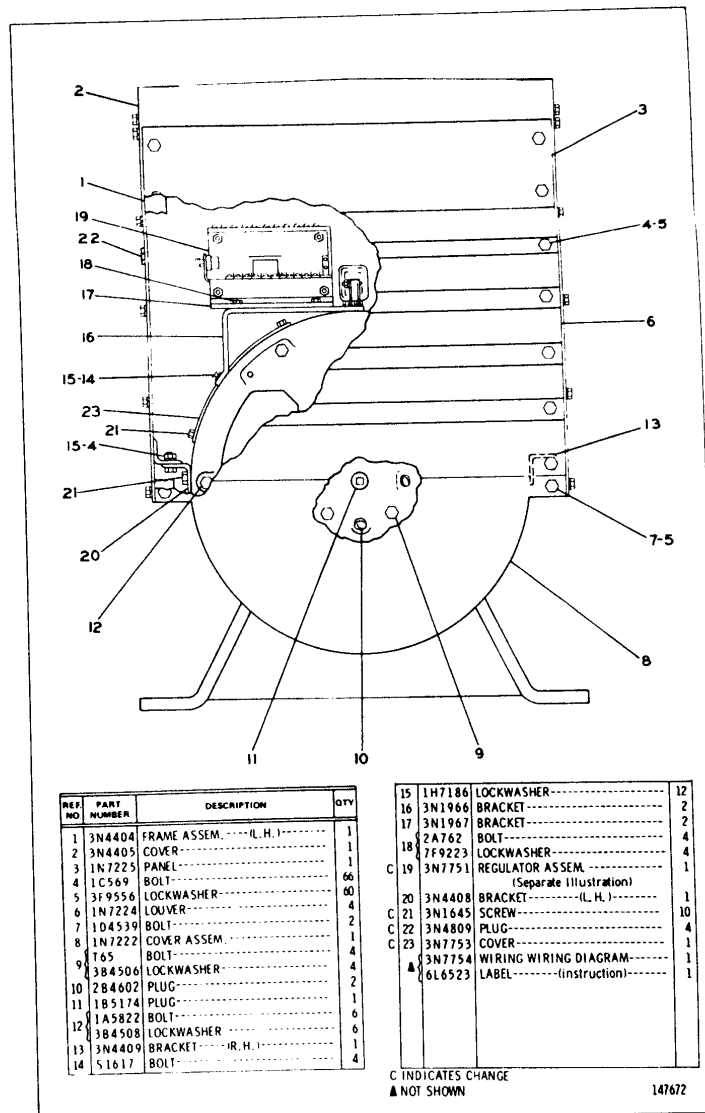
119190



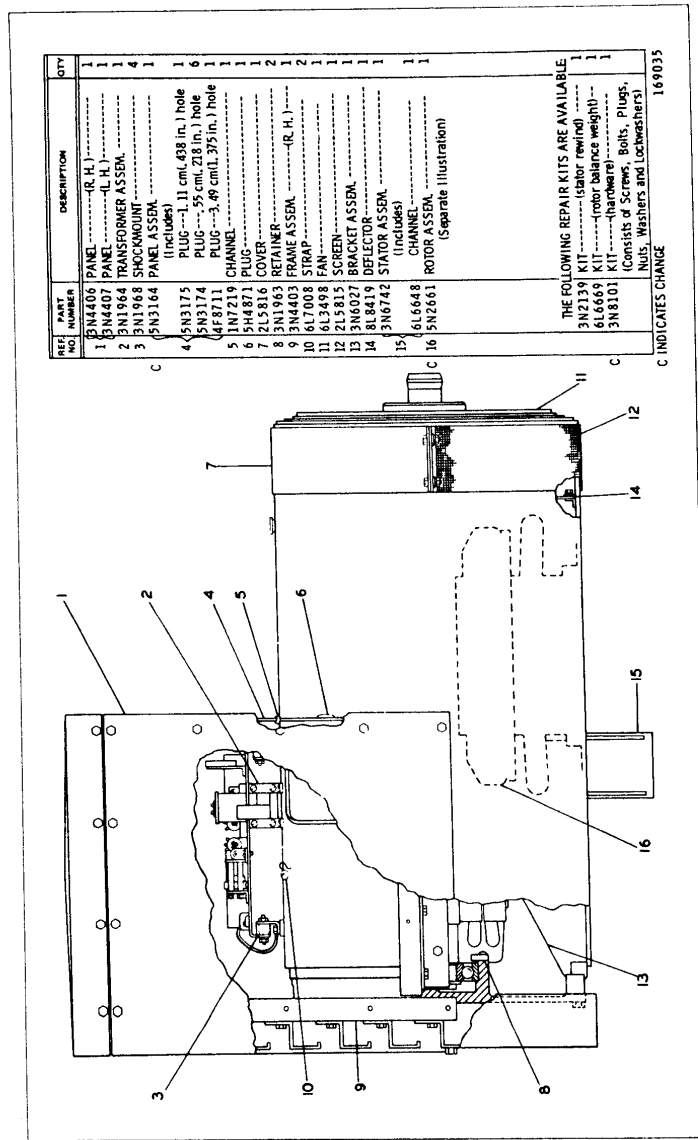
5N30 GENERATOR—3 Phase—Part 2—Type 2
Generator Serial No. 47BS300 to 47BS599 inclusive. 208-416 Volt, 60 hertz at 1800 R.P.M. 3N7751 Regulator parts are shown on Page 196



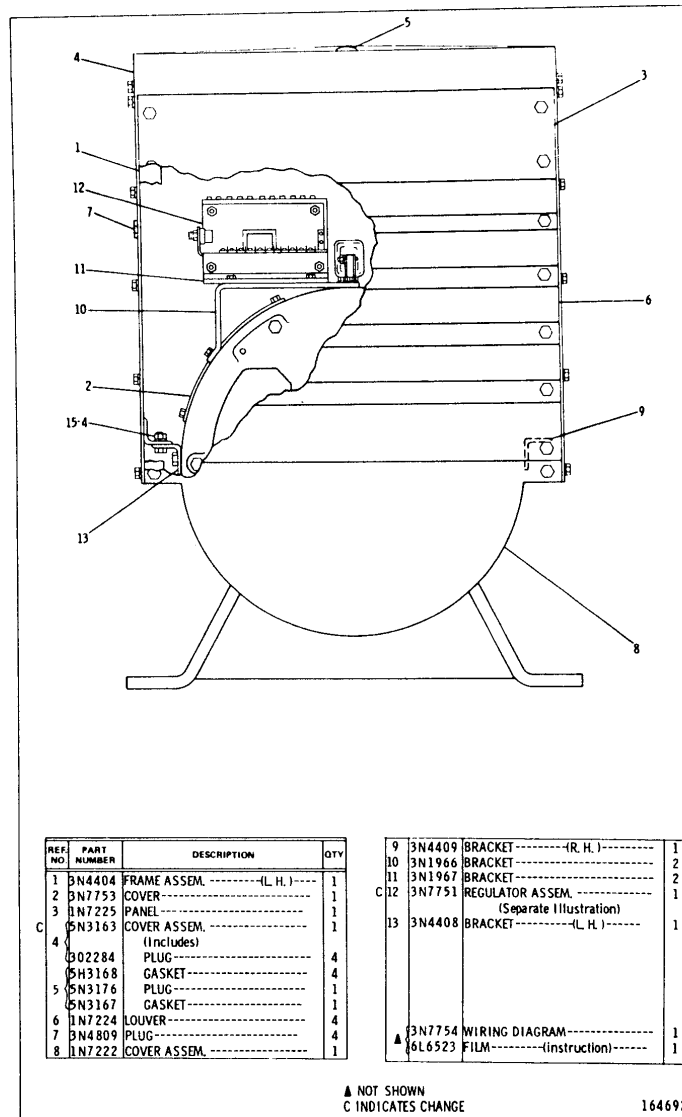
3N30 GENERATOR—3 Phase—Part 1—Type 3
Generator Serial No. 47BS600 to 47BS799 inclusive
208-416 Volts, 60 hertz at 1800 R.P.M.
3N9410 Rotor parts are shown on Page 196C



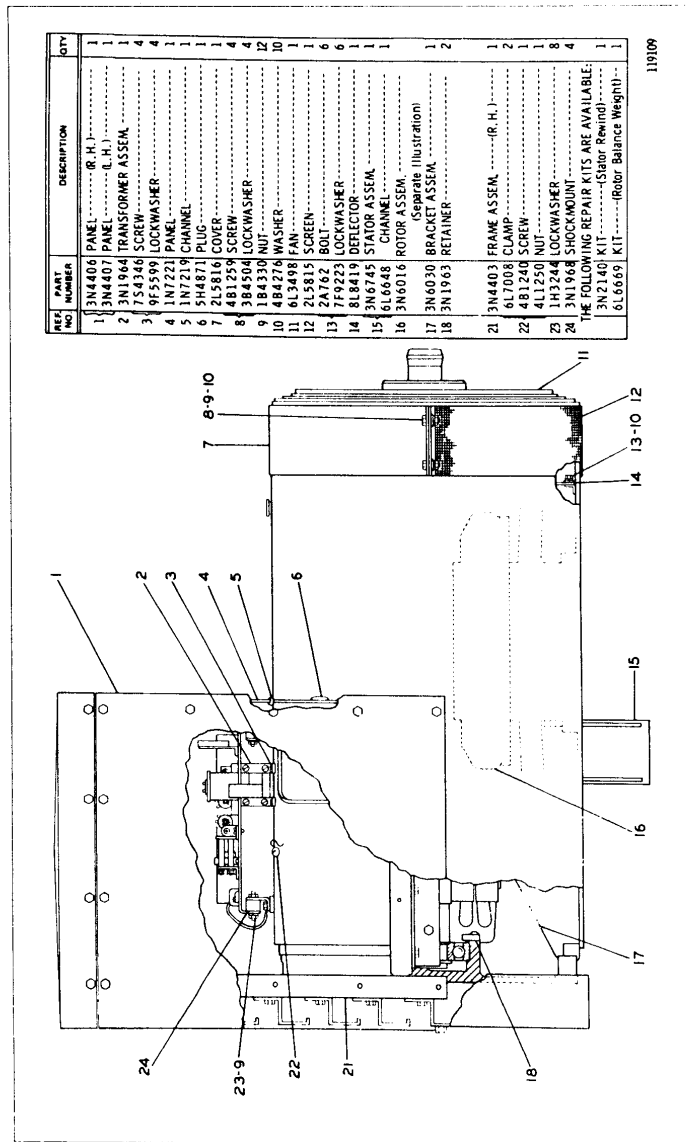
5N30 GENERATOR—3 Phase—Part 2—Type 3
Generator Serial No. 47BS600 to 47BS799 Inclusive. 208-416 Volt, 60 hertz at 1800
R.P.M. 3N7751 Regulator parts are shown on Page 196



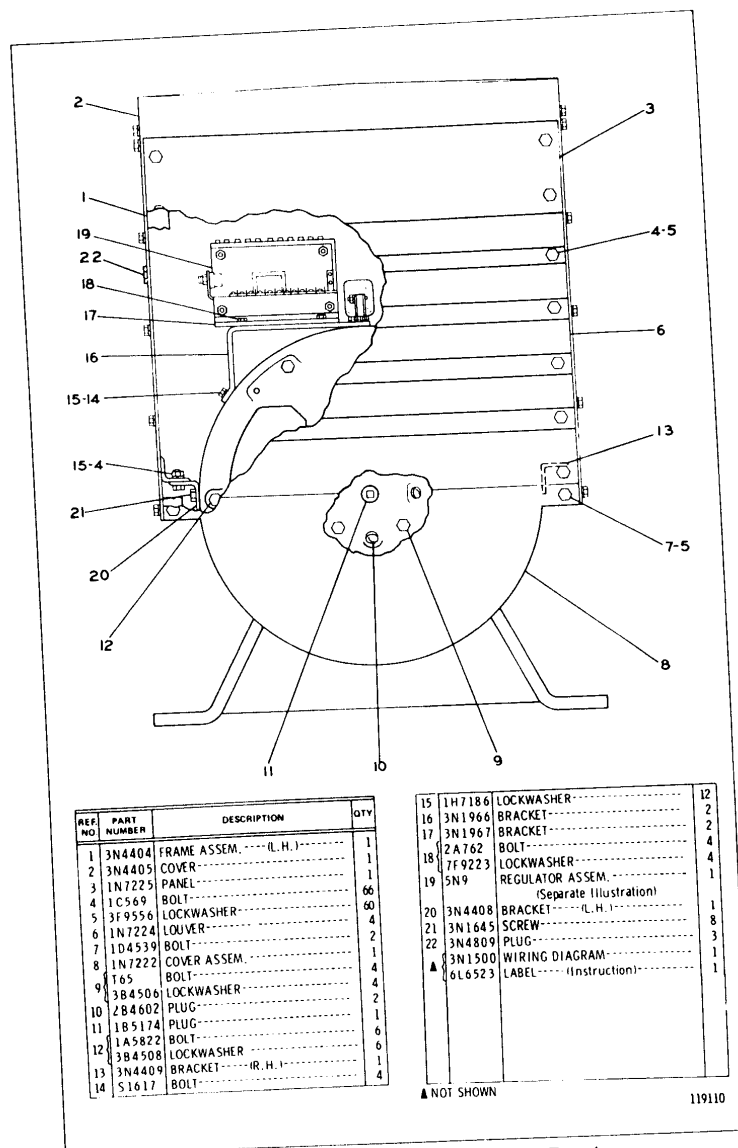
5N30 GENERATOR—3 Phase—Part 1—Type 4
 Generator Serial No. 47BS800—Up. 208-416 Volt, 60 hertz at 1800 R.P.M.
 5N2661 Rotor parts are shown on Page 198-1



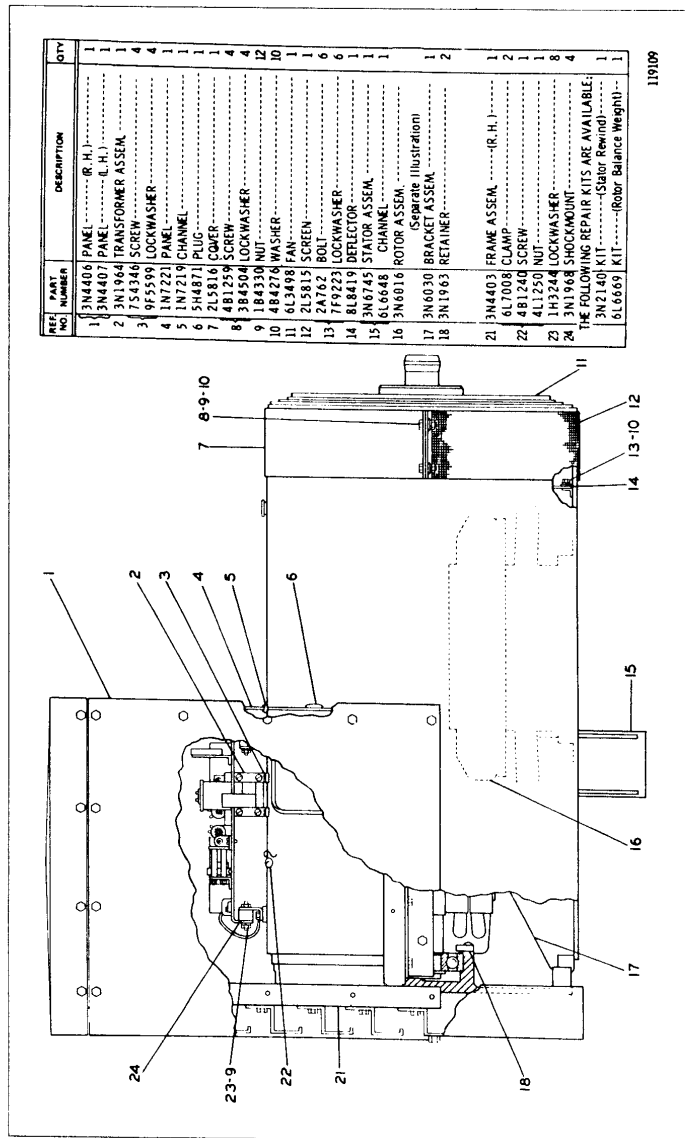
5N30 GENERATOR—3 Phase—Part 2—Type 4
Generator Serial No. 47BS800—Up. 208-416 Volt, 60 hertz at 1800 R.P.M.
3N7751 Regulator parts are shown on Page 196



5N31 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 185BH100—Up
 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N6016 Rotor parts are shown on Page 197

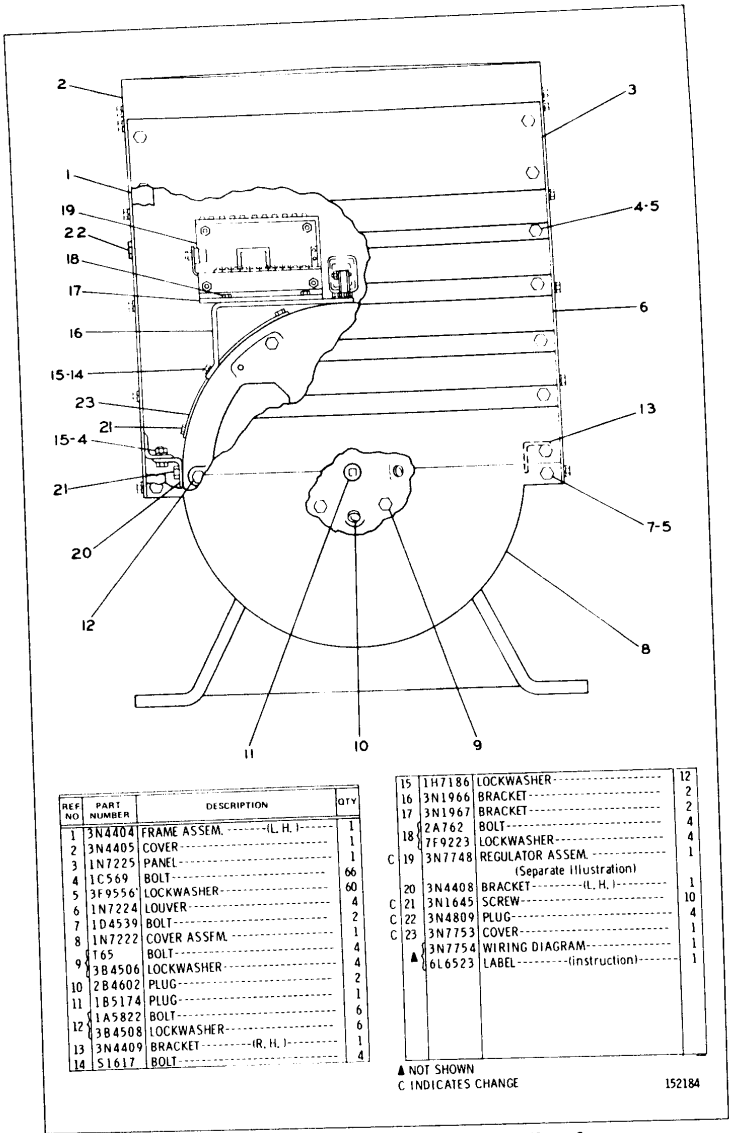


5N31 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 185BH100—Up
 240-480 Volt, 60 hertz at 1800 R.P.M.
 5N9 Regulator parts are shown on Page 195

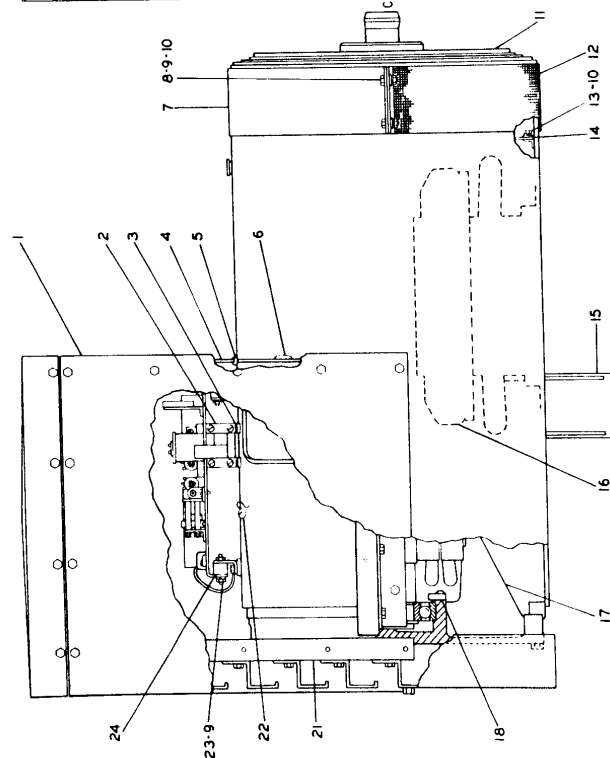


5N31 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 47BH300 to 47BH599 inclusive, 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N6016 Rotor parts are shown on Page 197

119109



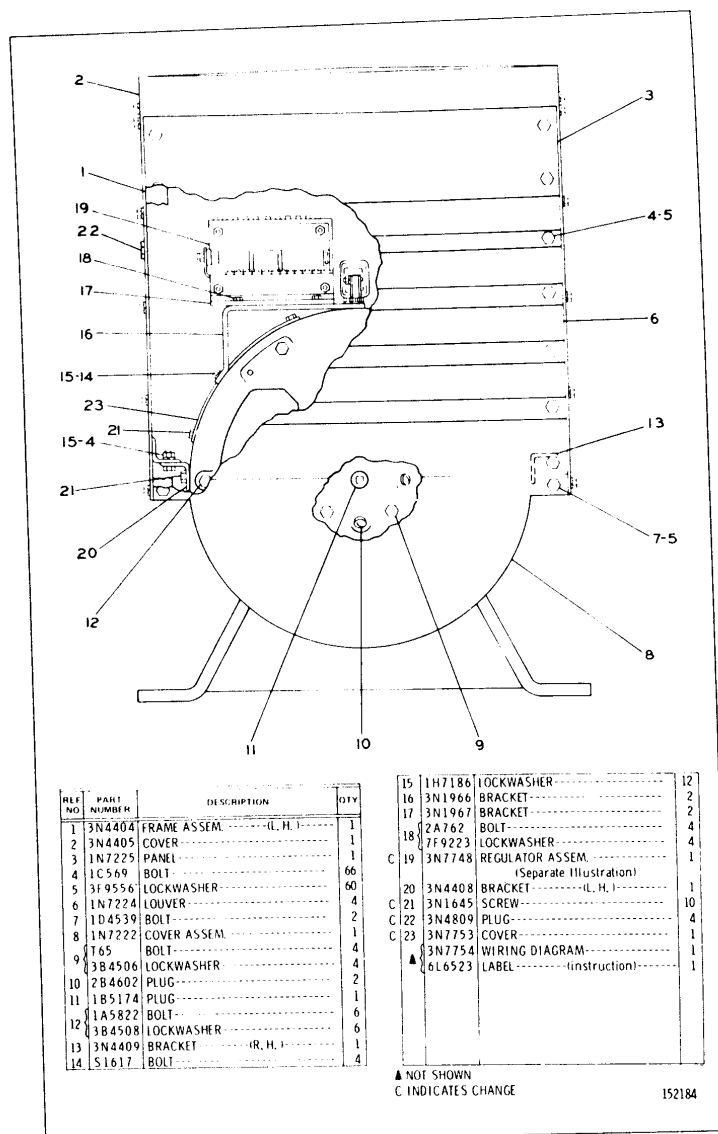
5N31 GENERATOR—3 Phase—Part 2—Type 2
Generator Serial No. 47BH300 to 47BH599 inclusive. 240-480 Volt, 60 hertz at 1800 R.P.M. 3N7748 Regulator parts are shown on Page 196A



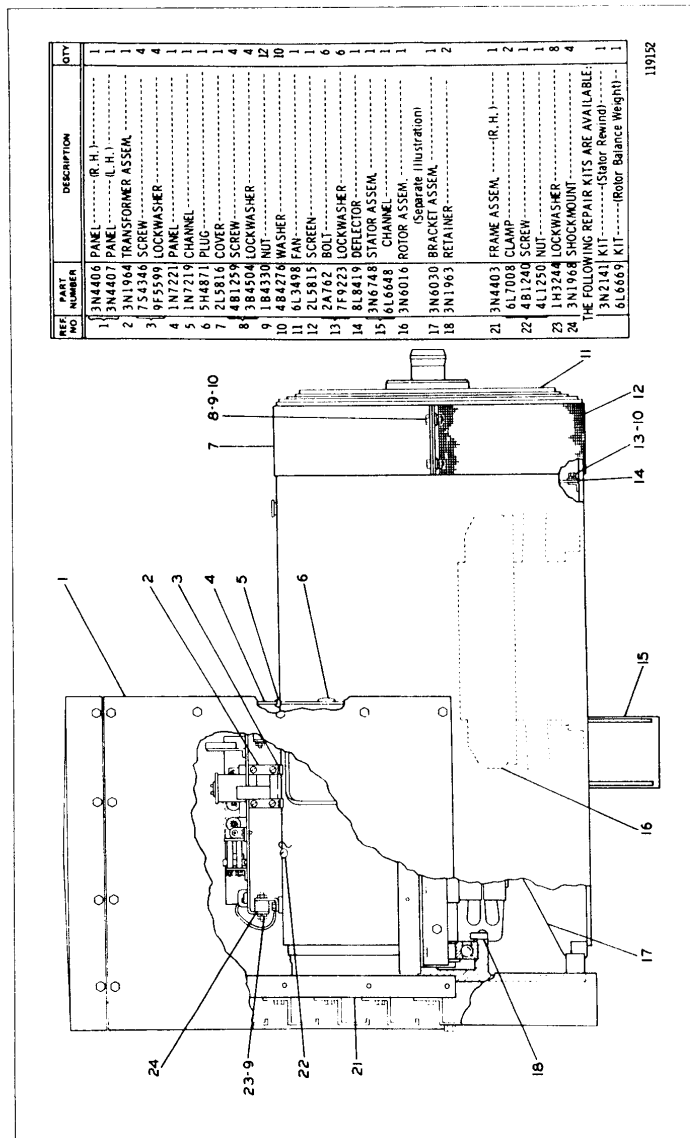
REF NO	PART NO	DESCRIPTION	QTY
1	3N4406	PANEL (R. H.)	1
2	3N4407	PANEL (L. H.)	1
3	3N1964	TRANSFORMER ASM.	4
4	7S4346	SCREW	3
5	9F5599	LOCKWASHER	4
6	1N7221	PANEL	1
7	5N1229	CHANNEL	1
8	6S4871	PLUG	4
9	7L5816	SCREW	4
10	8B1504	LOCKWASHER	4
11	9L4330	NUT	12
12	9L4330	NUT	10
13	11L498	FAN	1
14	12A762	BOLT	1
15	13F9223	LOCKWASHER	6
16	14L8419	DEFLECTOR	1
17	3N6745	STATOR ASM. (Includes)	1
18	6L6648	CHANNEL	1
19	3N9410	ROTOR ASM.	1
20	3N6030	BRACKET ASM. (Separate Illustration)	1
21	3N1963	RETAINER	2
22	3N4403	FRAME ASM. (R. H.)	2
23	6L7008	CLAMP	1
24	4B1240	SCREEN	1
25	4L1250	NUT	8
26	1H3244	LOCKWASHER	4
27	3N1968	SHOCKMOUNT	1

THE FOLLOWING PARTS ARE AVAILABLE:

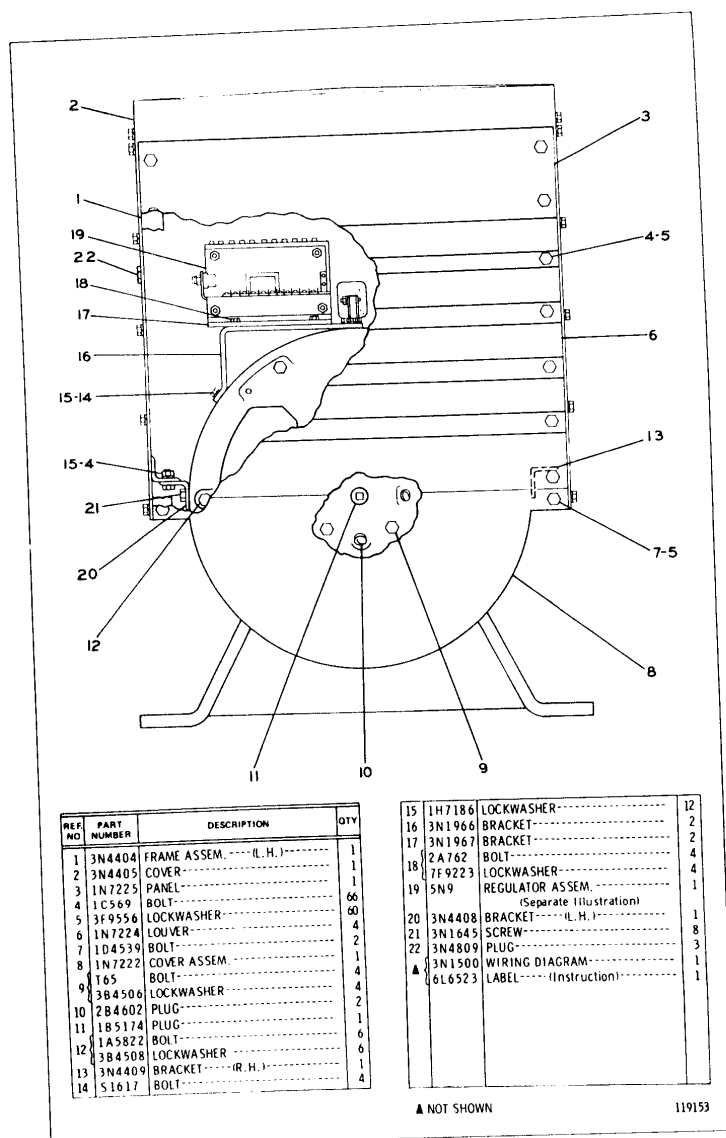
3N2401	KIT (stator rewind)	1
6L6669	KIT (rotor balance weight)	1
6L6669	CLAMP	20580



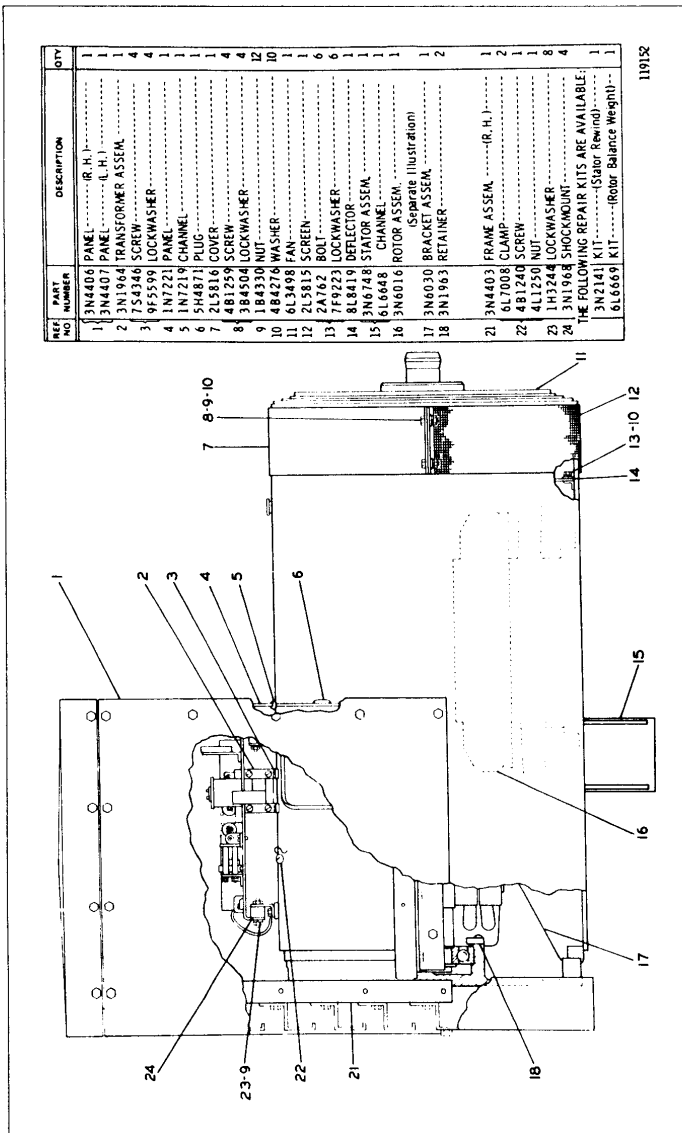
5N31 GENERATOR—3 Phase—Part 2—Type 3
 Generator Serial No. 47BH600—Up. 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N7748 Regulator parts are shown on Page 196A



5N32 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 185BG100—Up
 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N6016 Rotor parts are shown on Page 197



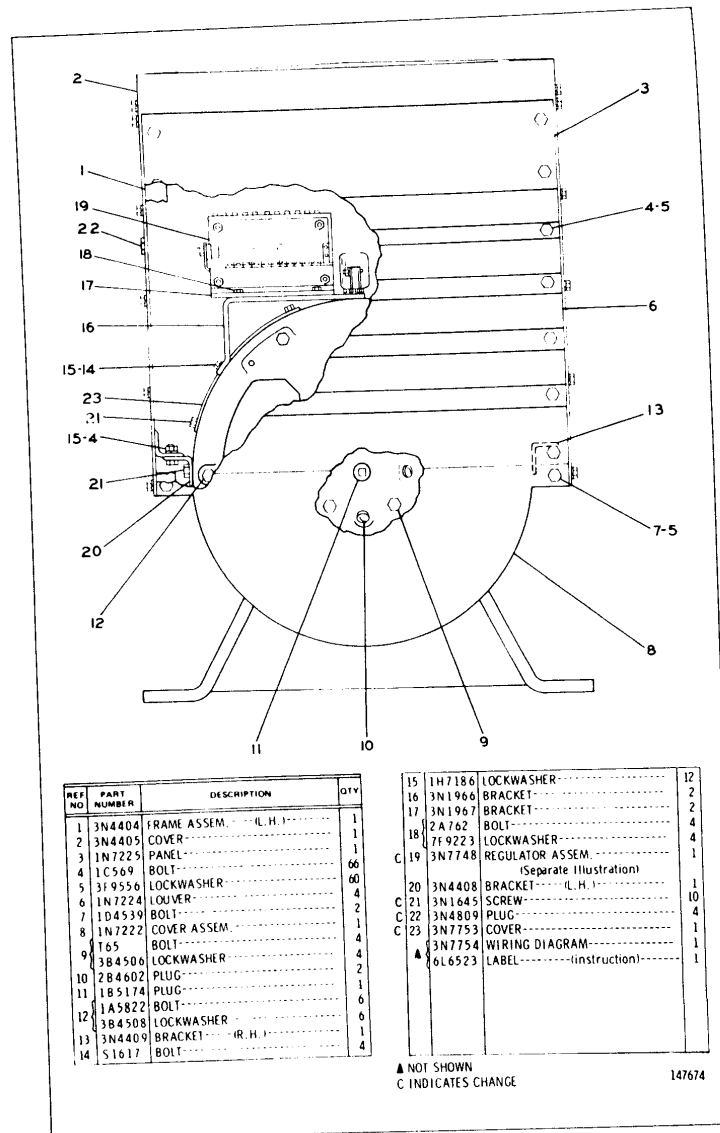
5N32 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 185BG100—Up
 300-600 Volt, 60 hertz at 1800 R.P.M.
 5N9 Regulator parts are shown on Page 195



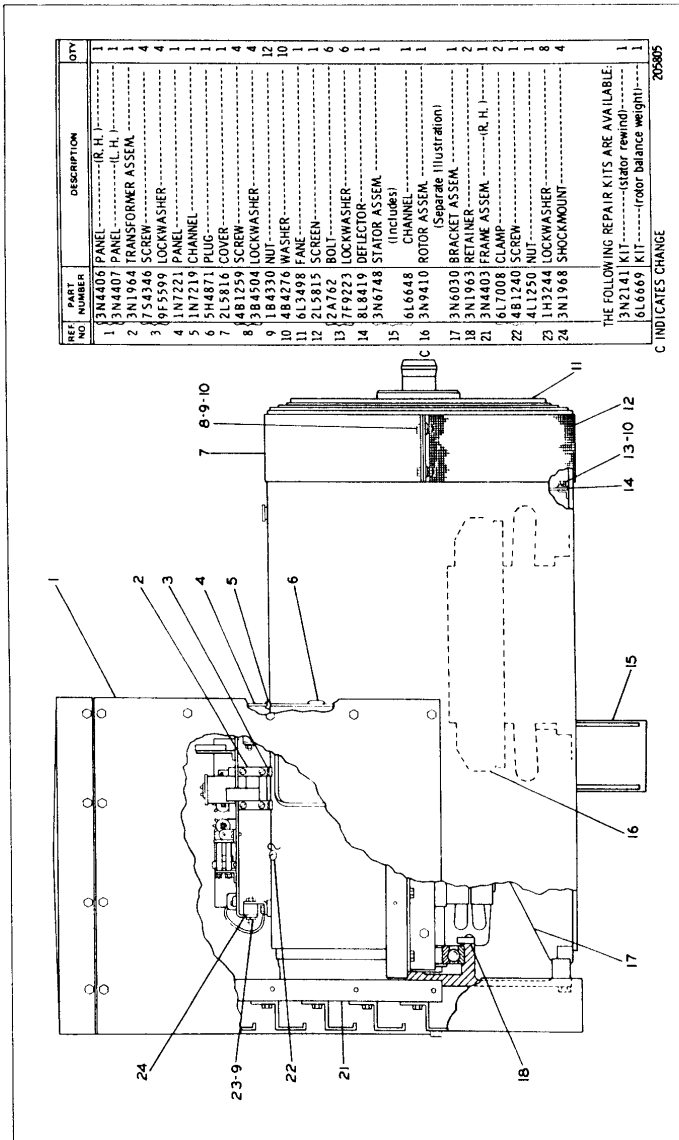
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	3N4406 PANEL	---(R. H.)---	1
2	3N4407 PANEL	---(L. H.)---	1
3	3N1964 TRANSFORMER ASSEM.		1
4	7S4346 SCREW		4
5	9F5599 LOCKWASHER		4
6	1N7221 PANEL		1
7	5H4871 PLUG		1
8	2L5816 COVER		1
9	4B1259 SCREW		4
10	3B4504 LOCKWASHER		4
11	1B4330 NUT		12
12	6L3498 FAN		1
13	2A762 SCREEN		1
14	7F4223 BOLT WASHER		6
15	8L4141 DETECTOR		1
16	3N6748 STATOR ASSEM.		1
17	6L6648 CHANNEL		1
18	3N6016 ROTOR ASSEM.	(Separate Illustration)	1
19	3N6030 BRACKET ASSEM.		1
20	3N1963 RETAINER		2
21	3N4403 FRAME ASSEM.	---(R. H.)---	1
22	6L7008 CLAMP		2
23	4B1240 SCREW		1
24	4L1250 NUT		1
25	1H3244 LOCKWASHER		8
26	3N1968 SHOCKMOUNT		4
27	THE FOLLOWING REPAIR KITS ARE AVAILABLE:		
28	3N2141 KIT	---(Stator Rewind)---	1
29	6L6669 KIT	---(Rotor Balance Weight)---	1

119152

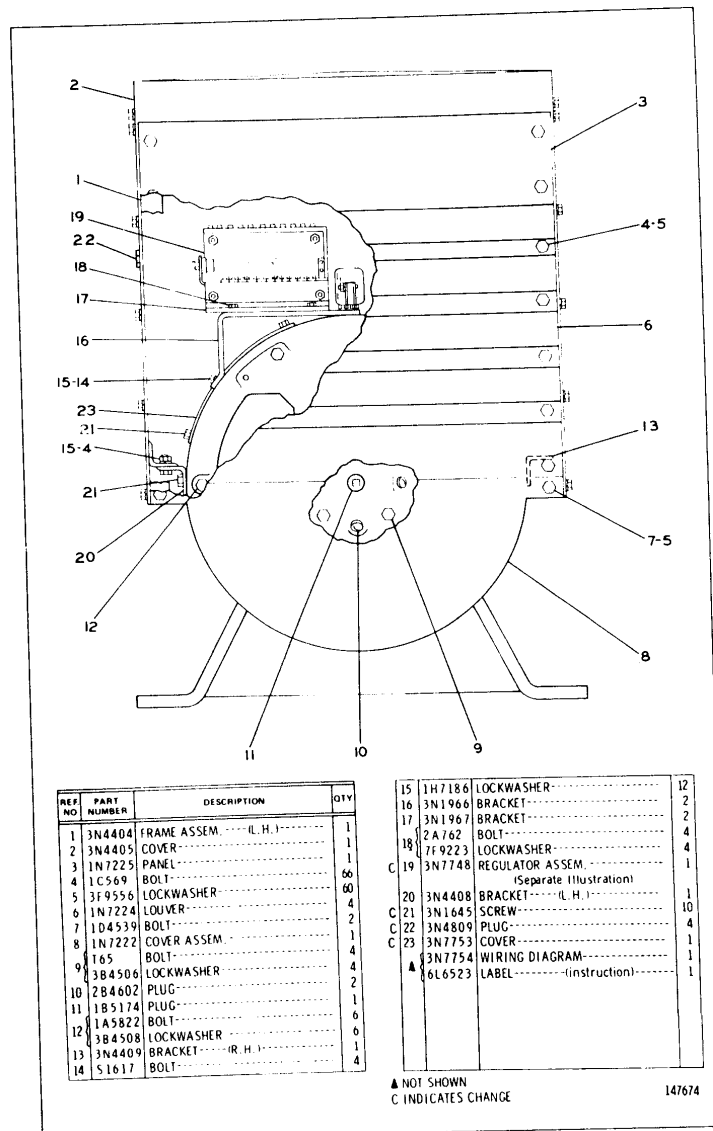
5N32 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 47BG300 to 47BG599 inclusive, 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N6016 Rotor parts are shown on Page 197



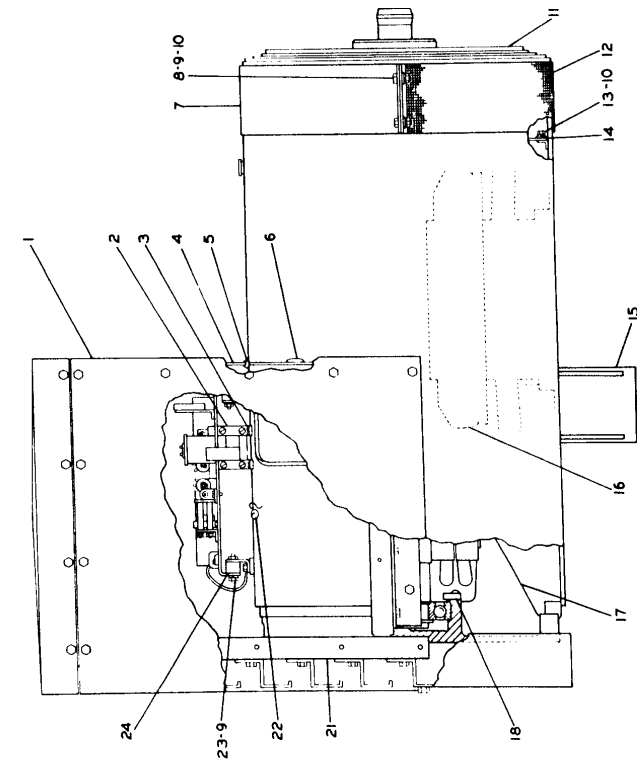
5N32 GENERATOR—3 Phase—Part 2—Type 2
Generator Serial No. 47BG300 to 47BG599 inclusive. 300-600 Volt, 60 hertz at 1800 R.P.M. 3N7748 Regulator parts are shown on Page 196A



5N32 GENERATOR—3 Phase—Part 1—Type 3
 Generator Serial No. 47BG600—Up, 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N9410 Rotor parts are shown on Page 196C



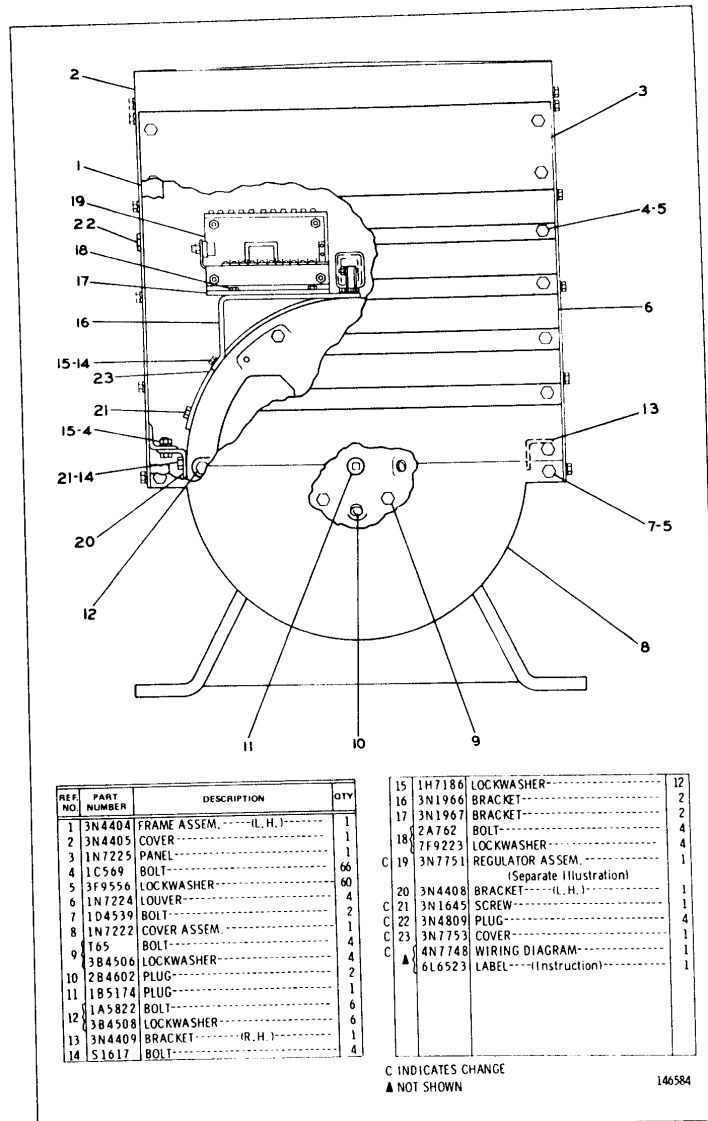
5N32 GENERATOR—3 Phase—Part 2—Type 3
Generator Serial No. 47BG600—Up. 300-600 Volt, 60 hertz at 1800 R.P.M.
3N7748 Regulator parts are shown on Page 196A



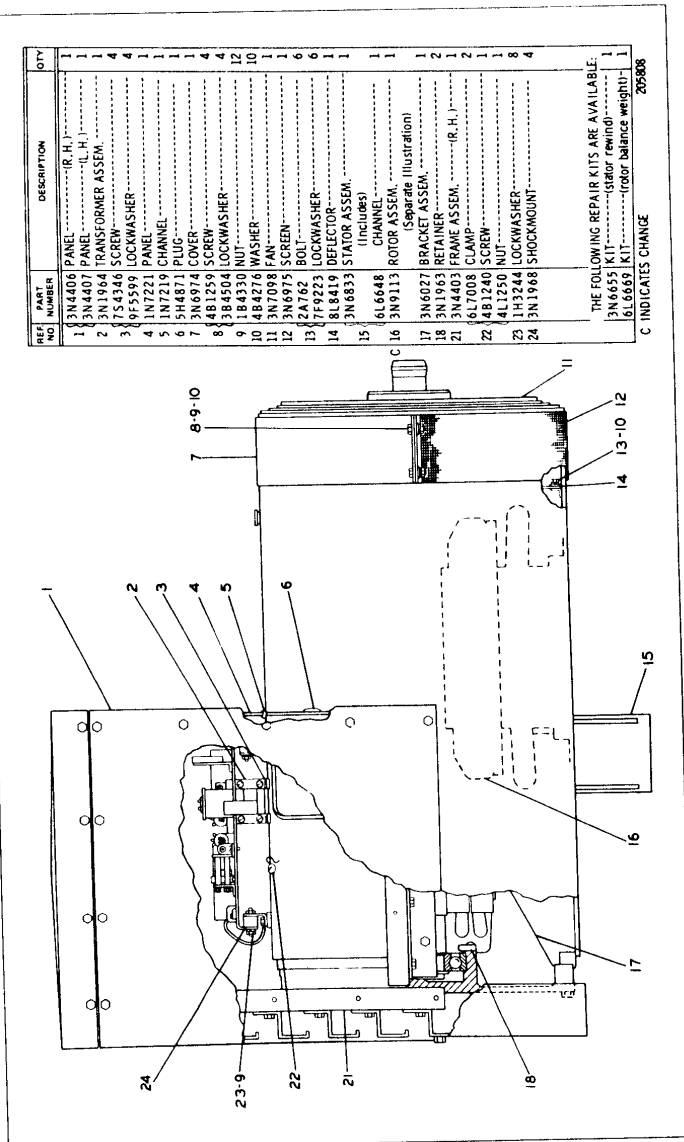
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	3N4406 PANEL	(R. H.)	1
2	3N4407 PANEL	(L. H.)	1
3	3N1964 TRANSFORMER ASSEM.	.....	1
4	754346 SCREW	.....	4
5	9F5599 LOCKWASHER	.....	4
6	1N7221 PANEL	.....	1
7	1N7219 CHANNEL	.....	1
8	5H4871 PLUG	.....	1
9	3N6974 COVER	.....	1
10	481259 SCREW	.....	4
11	3B4504 LOCKWASHER	.....	12
12	1B4530 NUT	.....	10
13	3N7098 FAN	.....	1
14	3N6975 SCREEN	.....	1
15	2A762 BOLT	.....	6
16	779223 LOCKWASHER	.....	6
17	8L8441 DETECTOR	.....	1
18	3N6833 STATOR ASSEM.	.....	1
19	6L6668 CHANNEL	.....	1
20	3N7094 ROTOR ASSEM.	(Separate Illustration)	1
21	3N6027 BRACKET ASSEM.	.....	1
22	3N1963 RETAINER	.....	2
23	3N4403 FRAME ASSEM.	(R. H.)	1
24	6L7008 CLAMP	.....	2
25	481240 SCREW	.....	1
26	4L1250 NUT	.....	1
27	1H3244 LOCKWASHER	.....	8
28	3N1968 SHOCKMOUNT	.....	4
29	THE FOLLOWING REPAIR KITS ARE AVAILABLE:	.....	
30	3N6655 KIT	(Stator Rewind)	1
31	6L6669 KIT	(Rotor Balance Weight)	1

119157

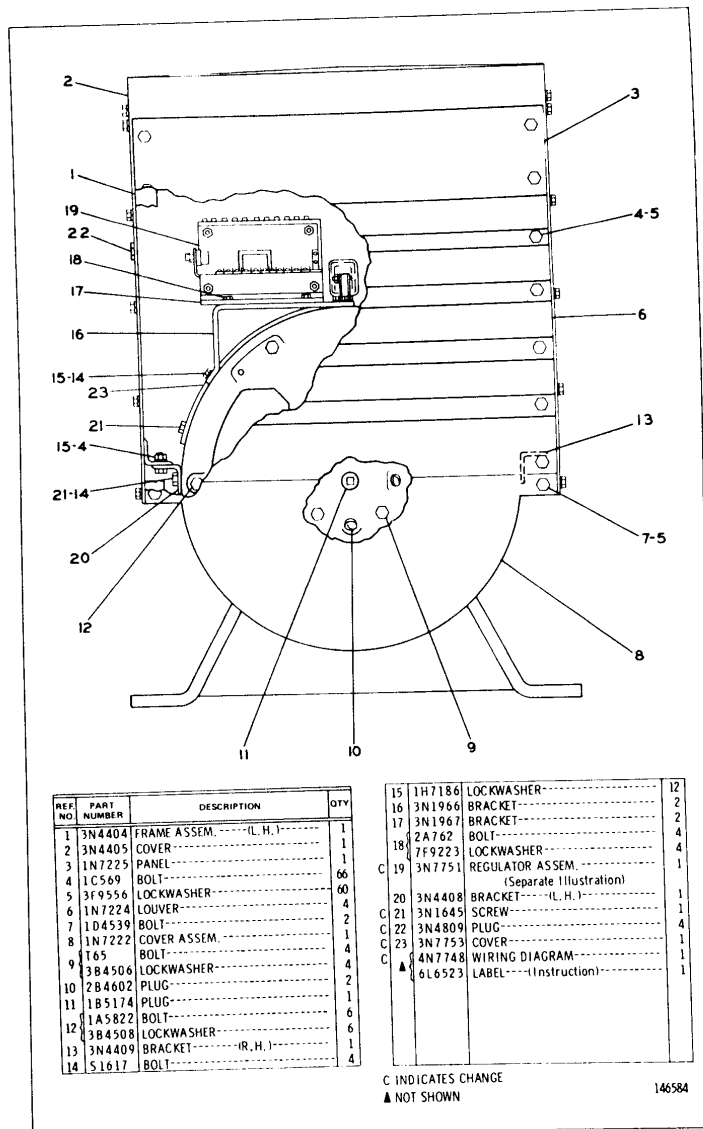
5N33 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 48BS300 to 48BS599 inclusive. 208-416 Volt, 60 hertz at 1800 R.P.M.
 3N7094 Rotor parts are shown on Page 198



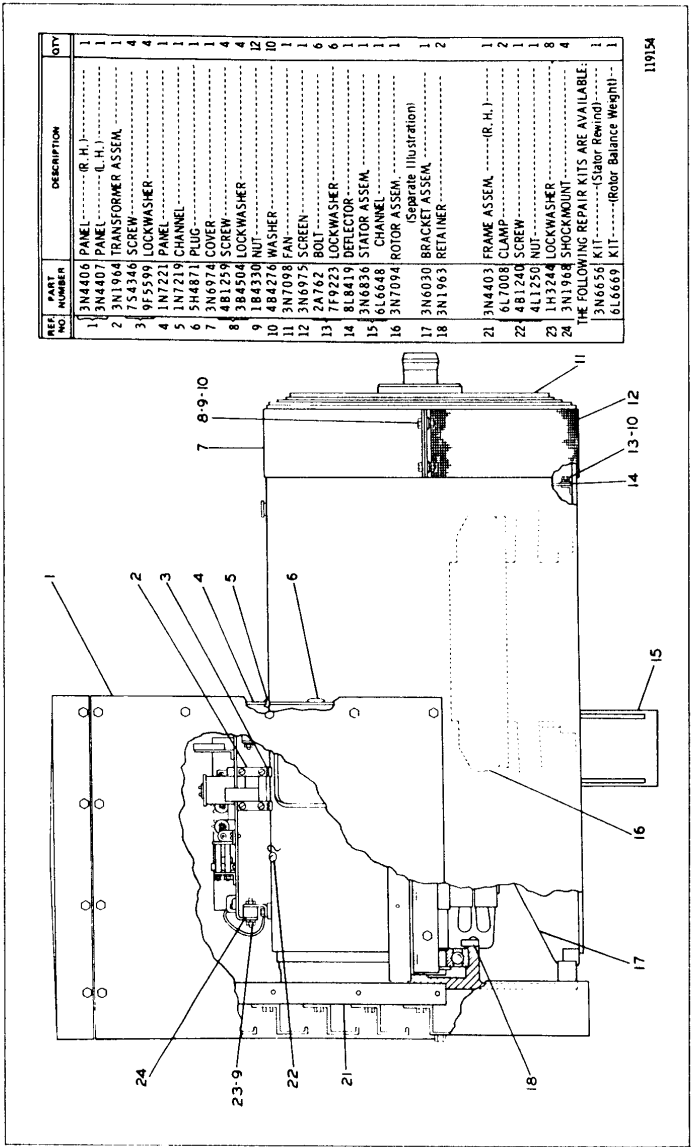
5N33 GENERATOR—3 Phase—Part 2—Type 1
Generator Serial No. 48BS300 to 48BS599 inclusive. 208-416 Volt, 60 hertz at 1800 R.P.M. 3N7751 Regulator parts are shown on Page 196



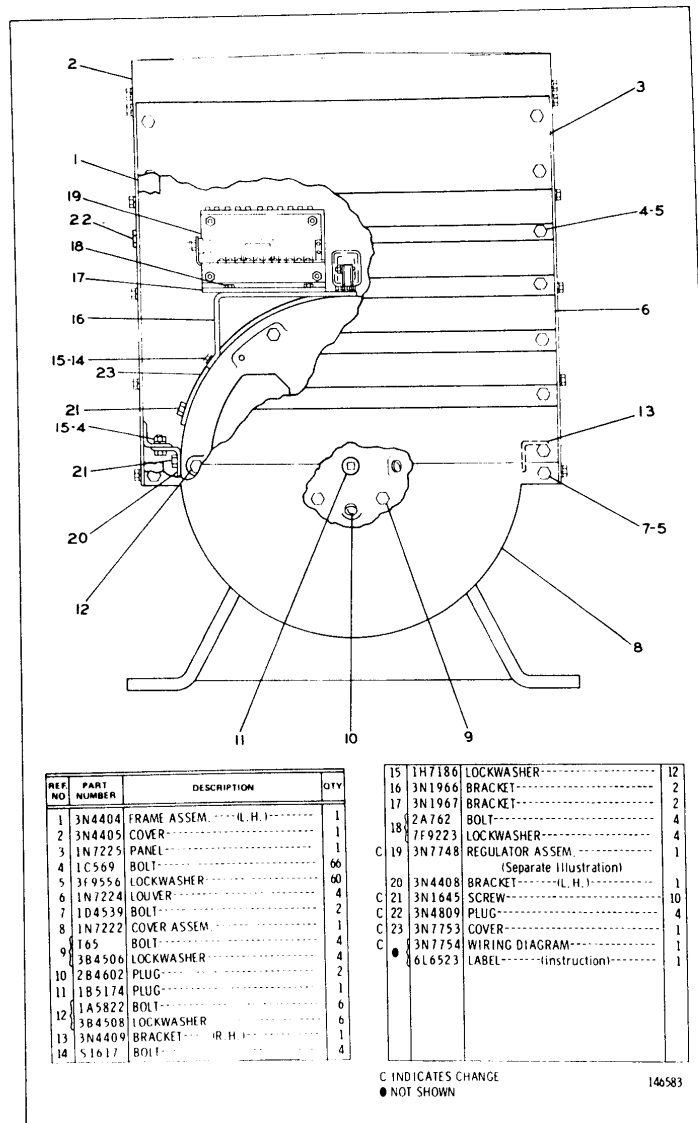
5N33 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 48BS600—Up. 208-416 Volt, 60 hertz at 1800 R.P.M.
 3N9113 Rotor parts are shown on Page 198B



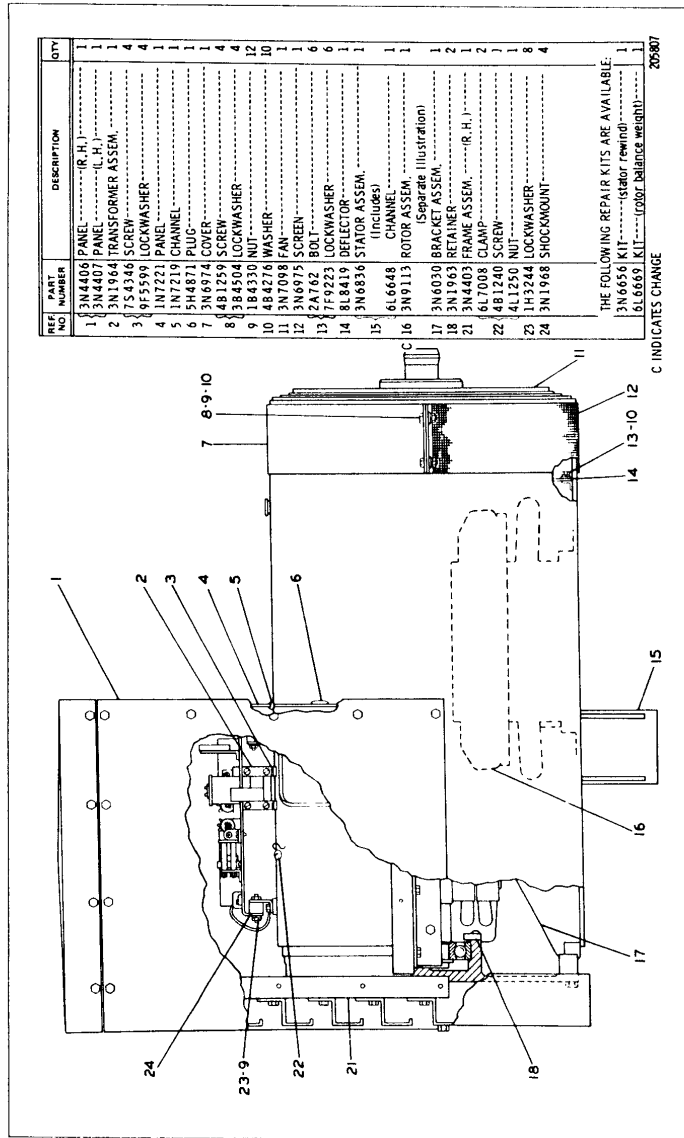
5N33 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 48BS600—Up. 208-416 Volt, 60 hertz at 1800 R.P.M.
 3N7751 Regulator parts are shown on Page 196



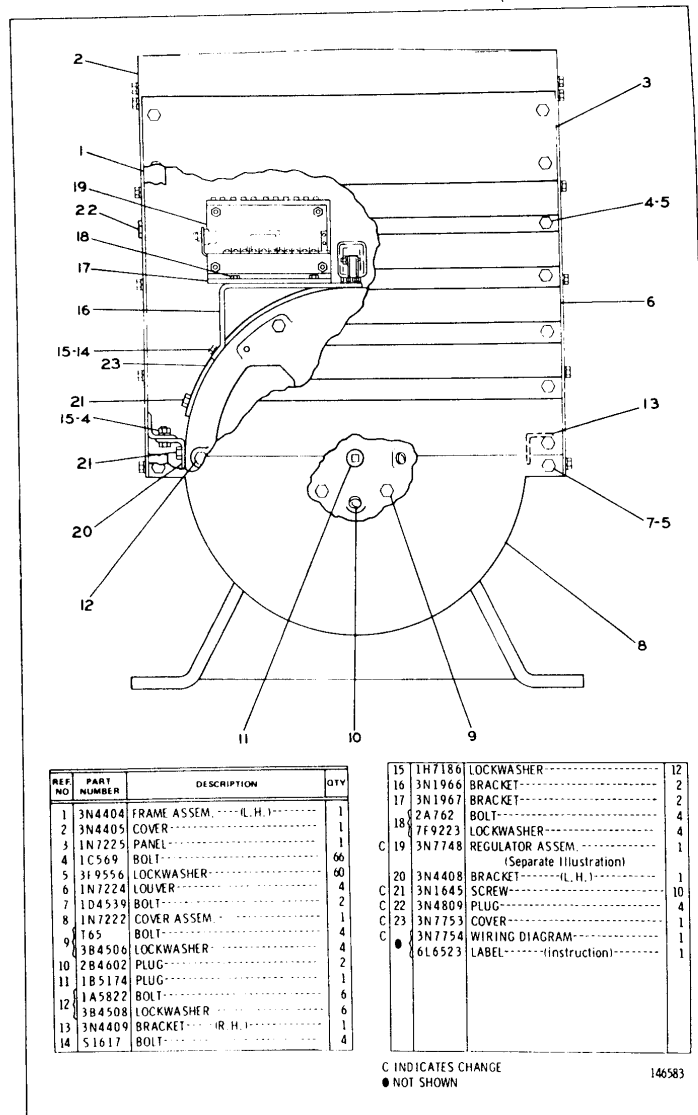
5N34 GENERATOR—3 Phase—Part 1—Type 1
Generator Serial No. 48BH500 to 48BH599 inclusive. 240-480 Volts 60 hertz at 1800 R.P.M.
3N7094 Rotor parts are shown on Page 198



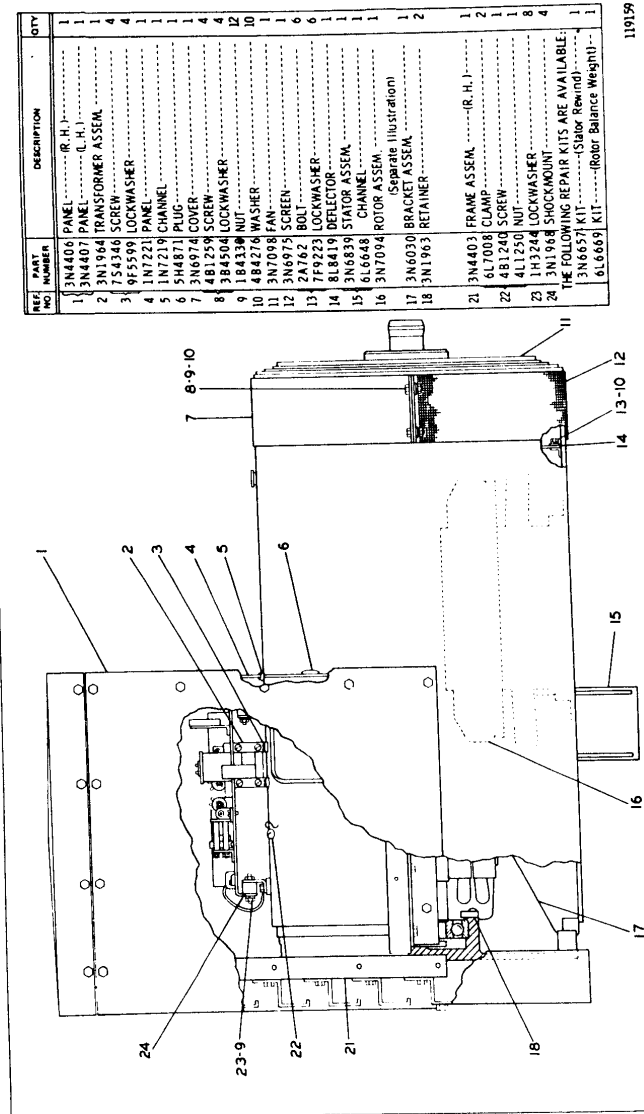
5N34 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 48BH300 to 48BH599 inclusive. 240-480 Volt, 60 hertz at 1800 R.P.M. 3N7748 Regulator parts are shown on Page 196A



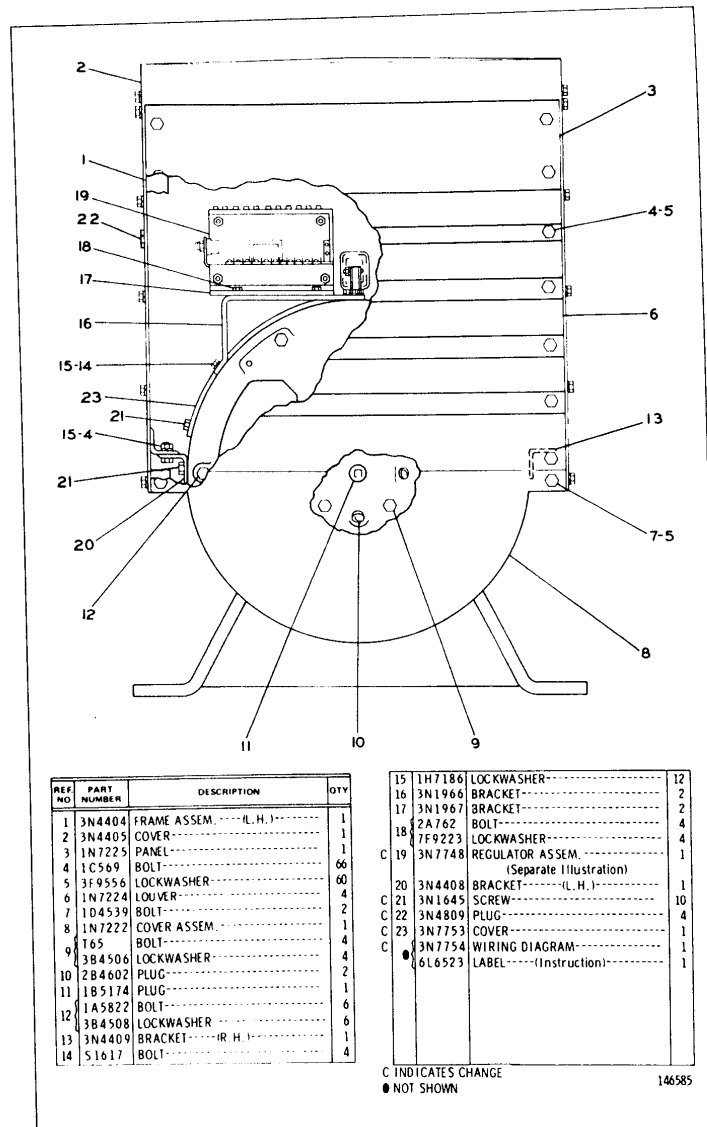
5N34 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 48BH600—Up. 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N9113 Rotor parts are shown on Page 196B



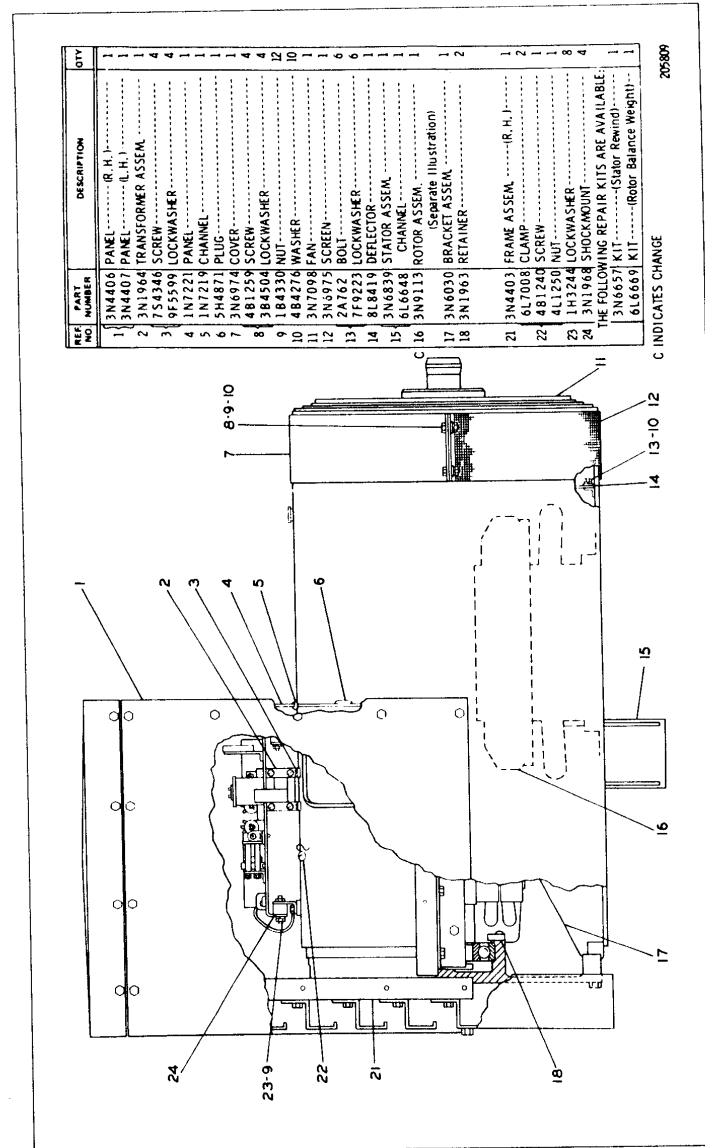
5N34 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 48BH600—Up. 240-480 Volt, 60 hertz at 1800
 R.P.M. 3N7748 Regulator parts are shown on Page 196A



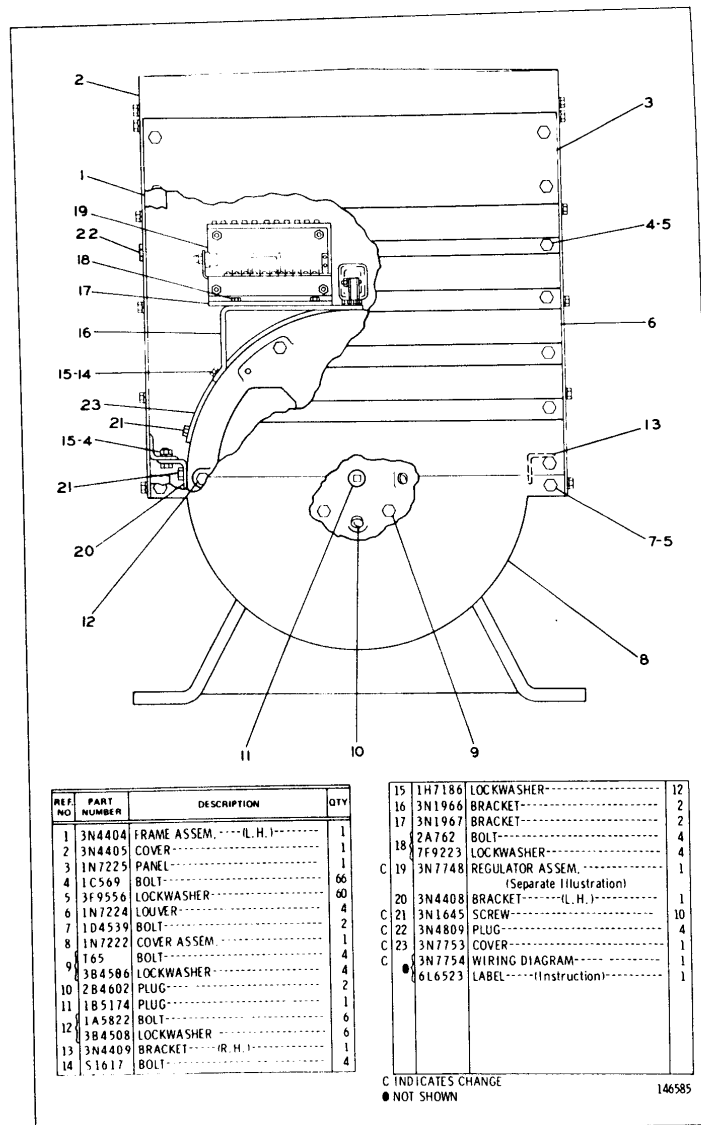
5N35 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 48BG300 to 48BG599 inclusive. 300-600 Volt; 60 hertz at 1800 R.P.M.
 3N7094 Rotor parts are shown on Page 198



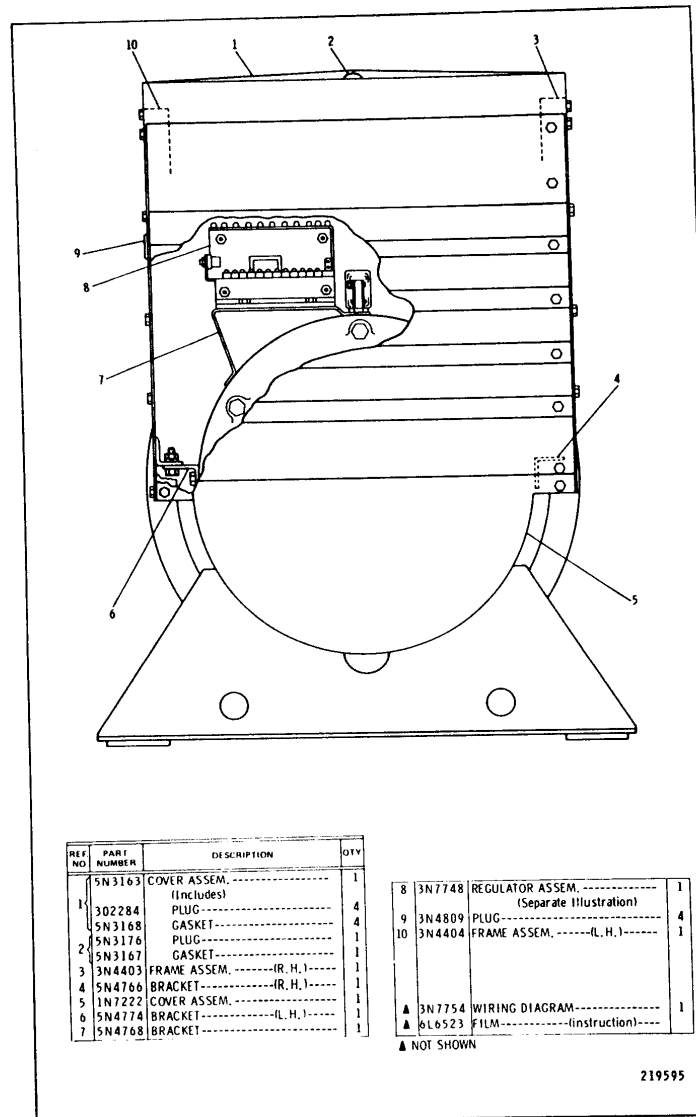
5N35 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 48BG300 to 48BG599 inclusive. 300-600 Volt, 60 hertz at 1800
 R.P.M. 3N7748 Regulator parts are shown on Page 196A



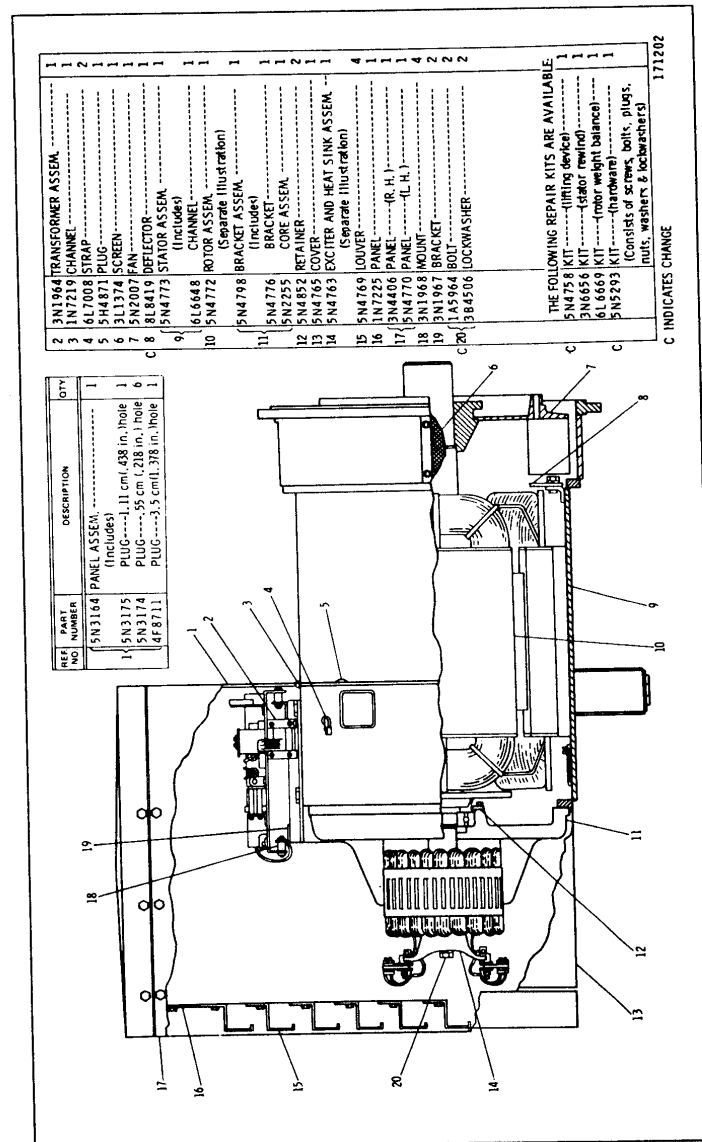
5N35 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 48BG600—Up. 300-600 Volt. 60 hertz at 1800 R.P.M.
 3N9113 Rotor parts are shown on Page 196B



5N35 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 48BG600—Up. 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N7748 Regulator parts are shown on Page 196A



5N64 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 448BH3000 to 448BH5999 Inclusive. 200-400 Volt, 50 hertz at
 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M. 3N7748—Page 196A



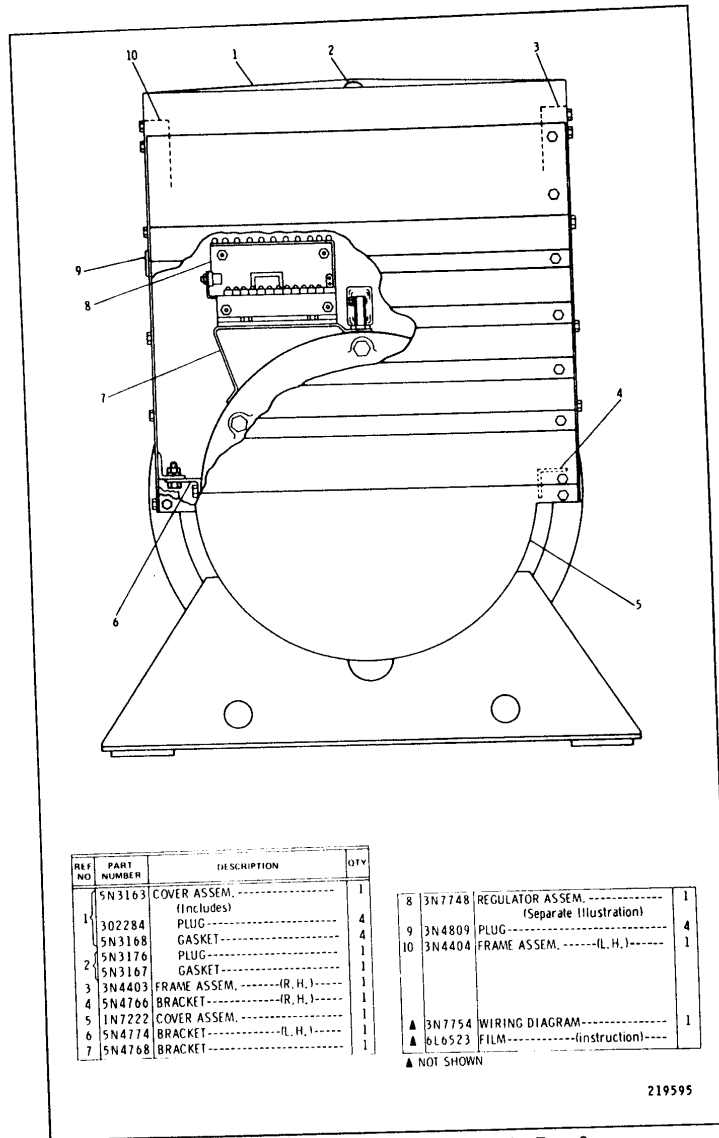
5N64 GENERATOR—3 Phase—Part 1—Type 2

Generator Serial No. 448BH6000—Up

200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.

5N4772—Page 198.02, 5N4763—Page 198.03

5N4772—Page 198.02, 5N4763—Page 196.03



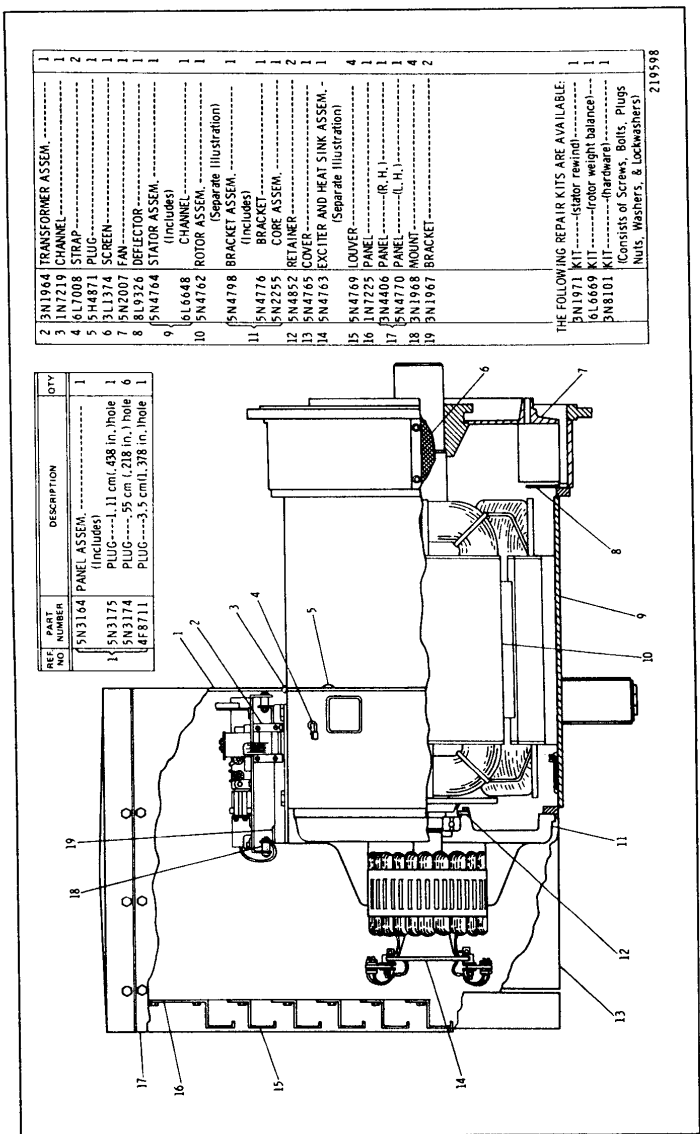
REF NO	PART NUMBER	DESCRIPTION	QTY
1	5N3163	COVER ASSEM. (includes)	1
	302284	PLUG	4
	5N3168	GASKET	4
2	5N3176	PLUG	1
	5N3167	GASKET	1
3	3N4403	FRAME ASSEM. (R, H, I)	1
4	5N4766	BRACKET (R, H, I)	1
5	1N7222	COVER ASSEM. (L, H, I)	1
6	5N4774	BRACKET (L, H, I)	1
7	5N4768	BRACKET	1

8	3N7748	REGULATOR ASSEM. (Separate Illustration)	1
9	3N4809	PLUG	4
10	3N4404	FRAME ASSEM. (L, H, I)	1
▲	3N7754	WIRING DIAGRAM	1
▲	6L6523	FILM (instruction)	1

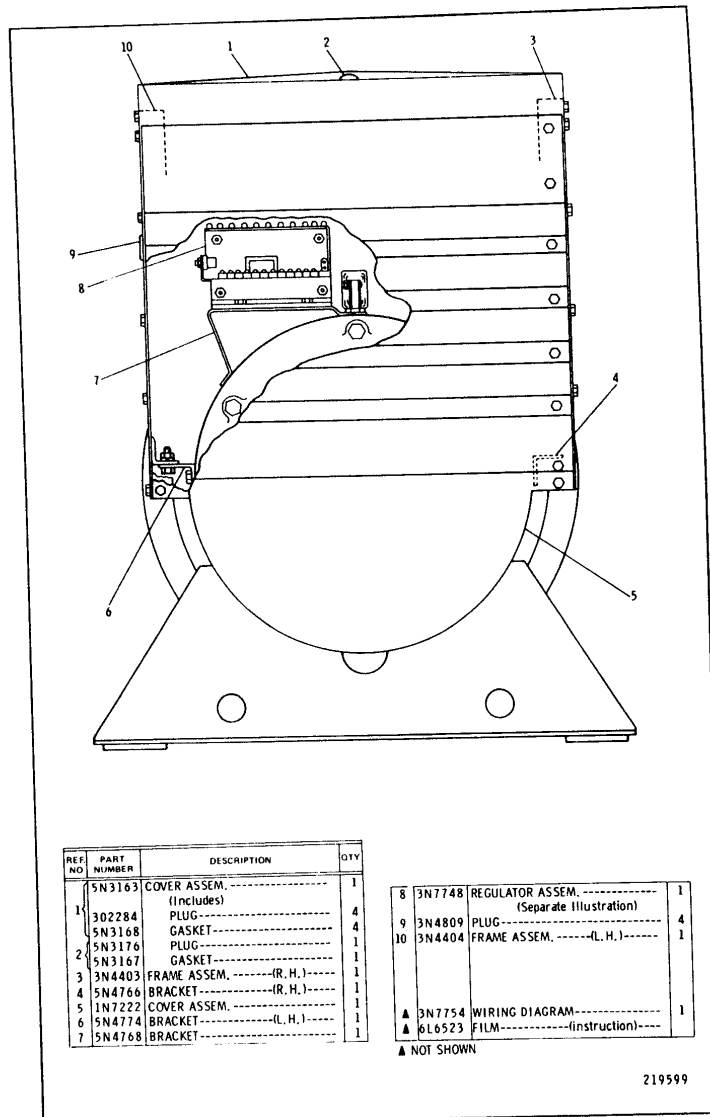
▲ NOT SHOWN

219595

5N64 GENERATOR—3 Phase—Part 2—Type 2
Generator Serial No. 448BH6000—Up. 200-400 Volt, 50 hertz at 1500 R.P.M. and
240-480 Volt, 60 hertz at 1800 R.P.M. 3N7748—Page 196A

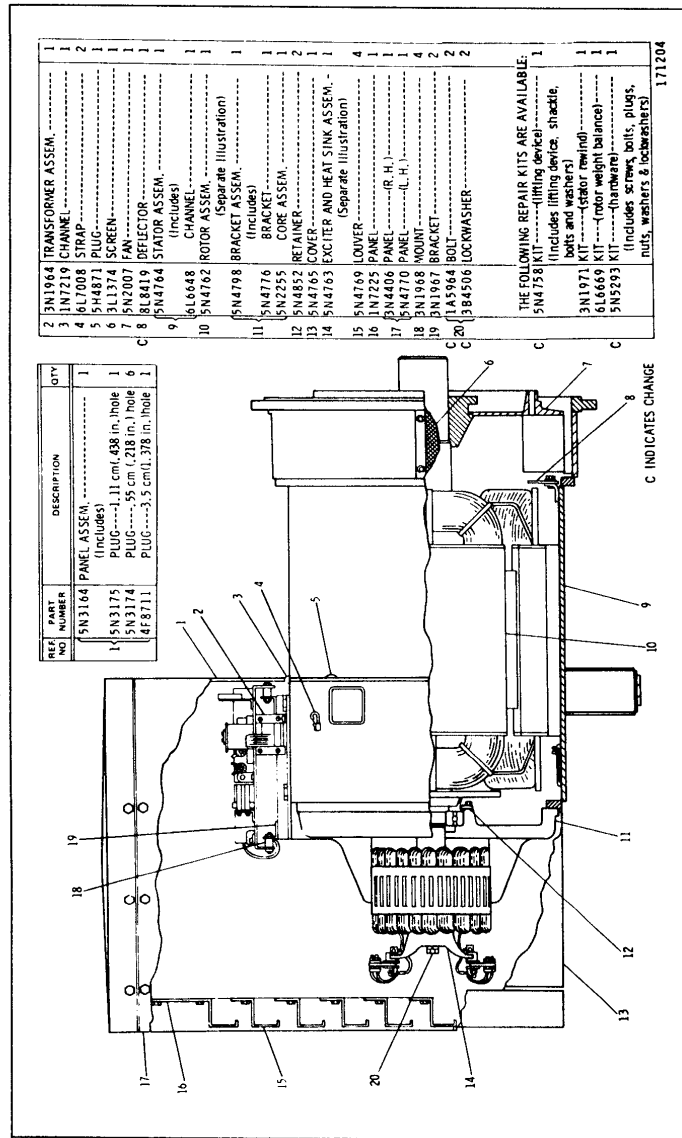


5N85 GENERATOR—3 Phase—Part 1—Type 1
Generator Serial No. 449BH3000 to 449BH5999 inclusive
200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.
5N4762—Page 198.02, 5N4763—Page 198.03



219599

5N65 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 449BH3000 to 449BH5999 inclusive
 200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A

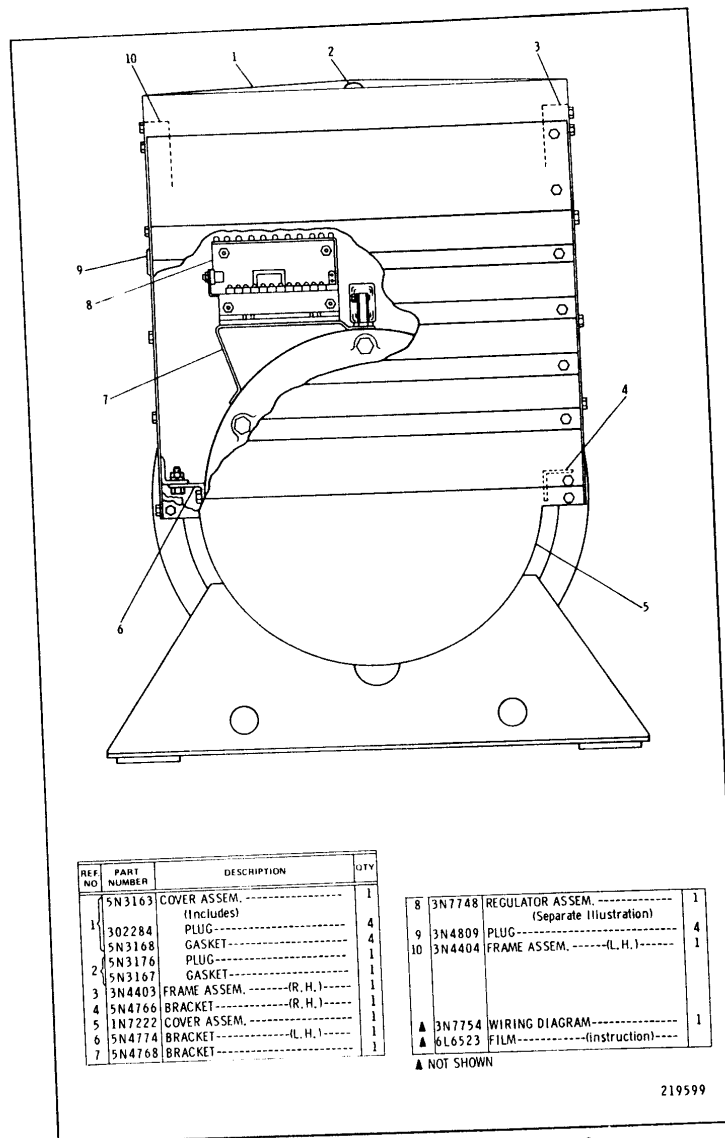


5N65 GENERATOR—3 Phase—Part 1—Type 2

Generator Serial No. 449BH6000—Up

200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.

5N4762—Page 198.02; 5N4763—Page 198.03



REF NO	PART NUMBER	DESCRIPTION	QTY
1	5N3163	COVER ASSEM.	1
		(Includes)	
	302284	PLUG.....	4
	5N3168	GASKET.....	4
2	5N3176	PLUG.....	1
	5N3167	GASKET.....	1
3	3N4403	FRAME ASSEM. ....(R. H.)....	1
4	5N4766	BRACKET.....(R. H.)....	1
5	1N7222	COVER ASSEM.	1
6	5N4774	BRACKET.....(L. H.)....	1
7	5N4768	BRACKET.....	1

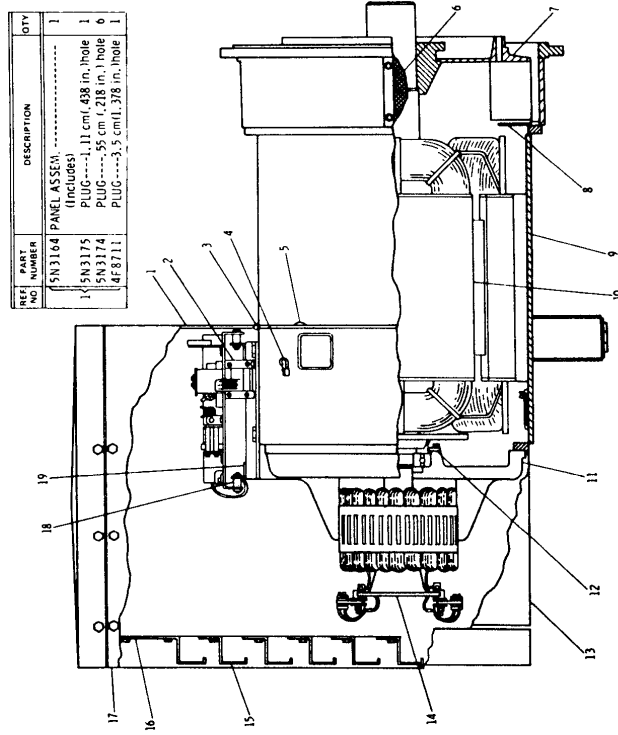
8	3N7748	REGULATOR ASSEM.	1
		(Separate Illustration)	
9	3N4809	PLUG.....	4
10	3N4404	FRAME ASSEM. ....(L. H.)....	1
▲	3N7754	WIRING DIAGRAM.....	1
▲	6L6523	FILM.....(Instruction)....	

▲ NOT SHOWN

219599

5N65 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 449BH6000—Up
 200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A

REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	5N3164	PANEL ASSEM. (Includes)	1
2	5N3175	PLUG---1, 11 cm (4.3 in.) hole	1
3	5N3174	PLUG---5, 5 cm (1.218 in.) hole	6
4	487811	PLUG---3, 3 cm (1.18 in.) hole	1

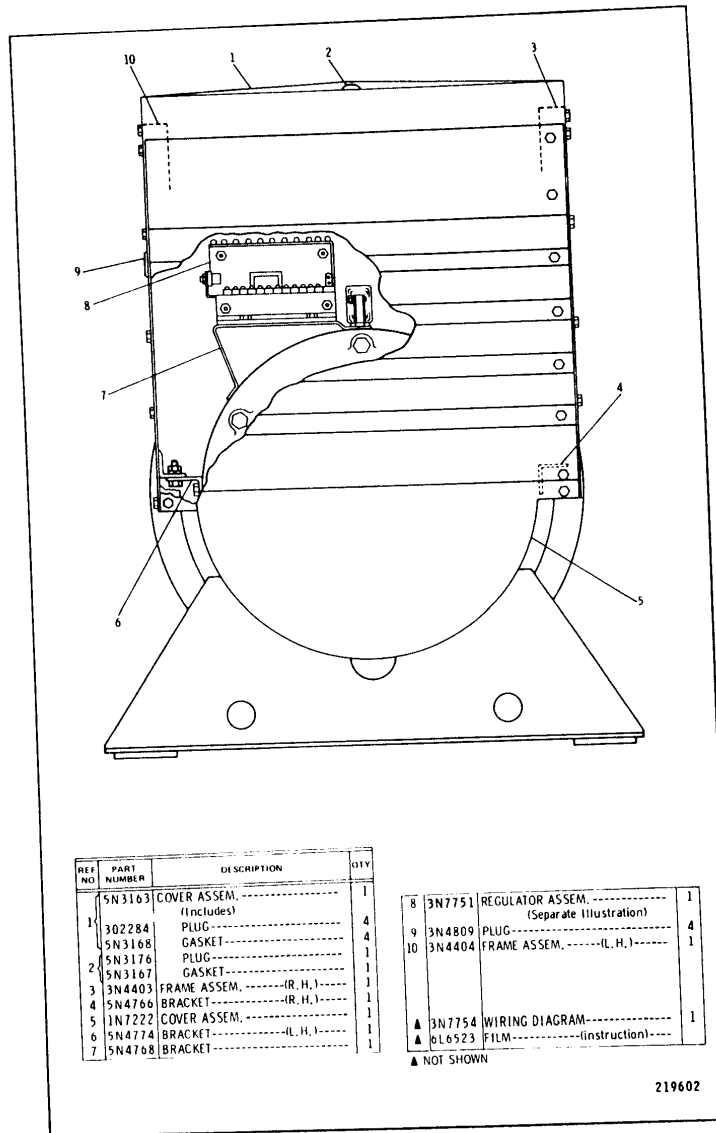


2	5N1964	TRANSFORMER ASSEM.	1
3	5N7219	CHANNEL	1
4	5N7219	STUD	2
5	5N7208	PLUG	1
6	5N1174	SCREEN	1
7	5N2707	FAN	1
8	5N9326	DEFLECTOR	1
9	5N4775	STATOR ASSEM. (Includes)	1
10	5N4772	ROTOR ASSEM. (Separate Illustration)	1
11	5N4797	BRACKET ASSEM. (Includes)	1
12	5N4776	BRACKET	1
13	5N4734	CORE ASSEM.	1
14	5N4852	RETAINER	2
15	5N4765	COVER	1
16	5N4763	EXCITER AND HEAT SINK ASSEM. (Separate Illustration)	1
17	5N4769	LOUVER	4
18	5N7225	PANEL (R.H.)	1
19	5N4408	PANEL (L.H.)	1
20	5N4770	PANEL (L.H.)	1
21	5N1968	NOU	4
22	5N1967	BRACKET	2

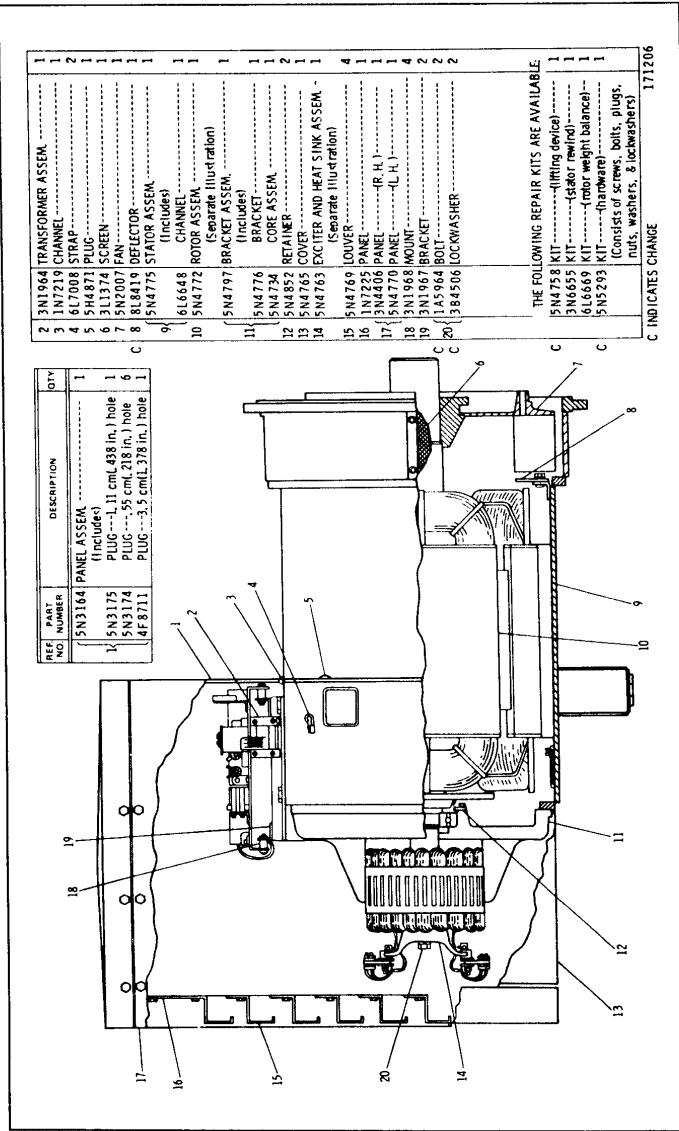
THE FOLLOWING REPAIR KITS ARE AVAILABLE:
 5N6655 KIT---Stator rewind
 5N6659 KIT---Rotor rewind
 5N8101 KIT---Exciter
 (Consists of Screws, Bolts, Plugs, Nuts, Washers, & Lockwashers)

219601

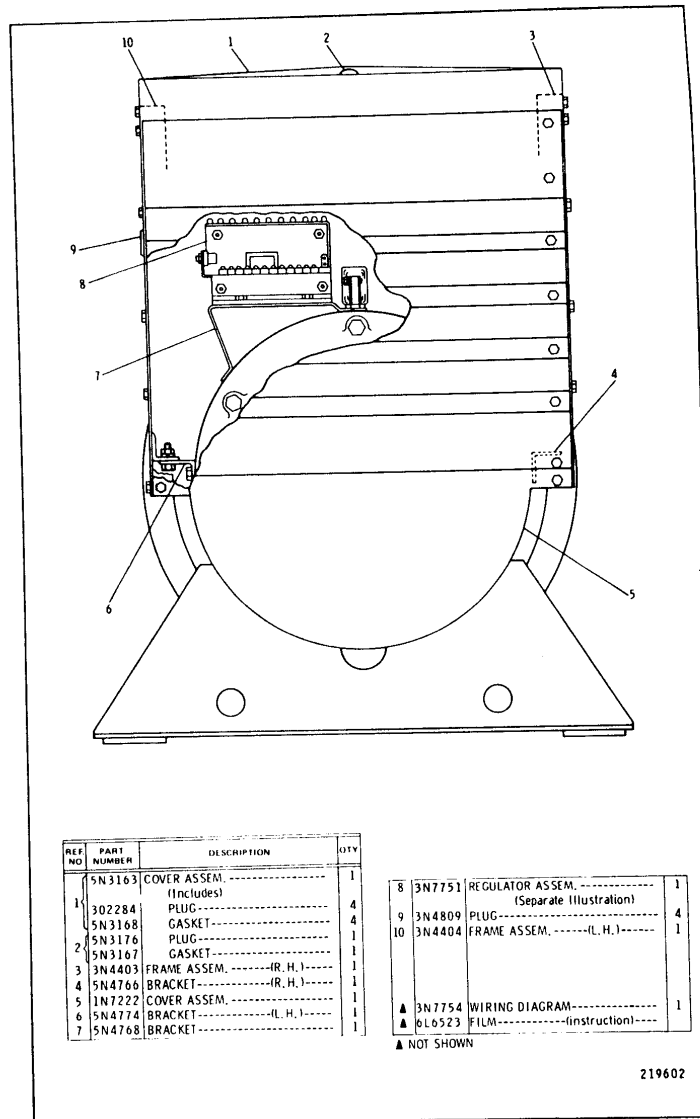
5N66 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 448BS3000 to 448BS5999 inclusive
 208-416 Volt, 60 hertz at 1800 R.P.M. 5N4772—Page 198.02, 5N4763—Page 198.03



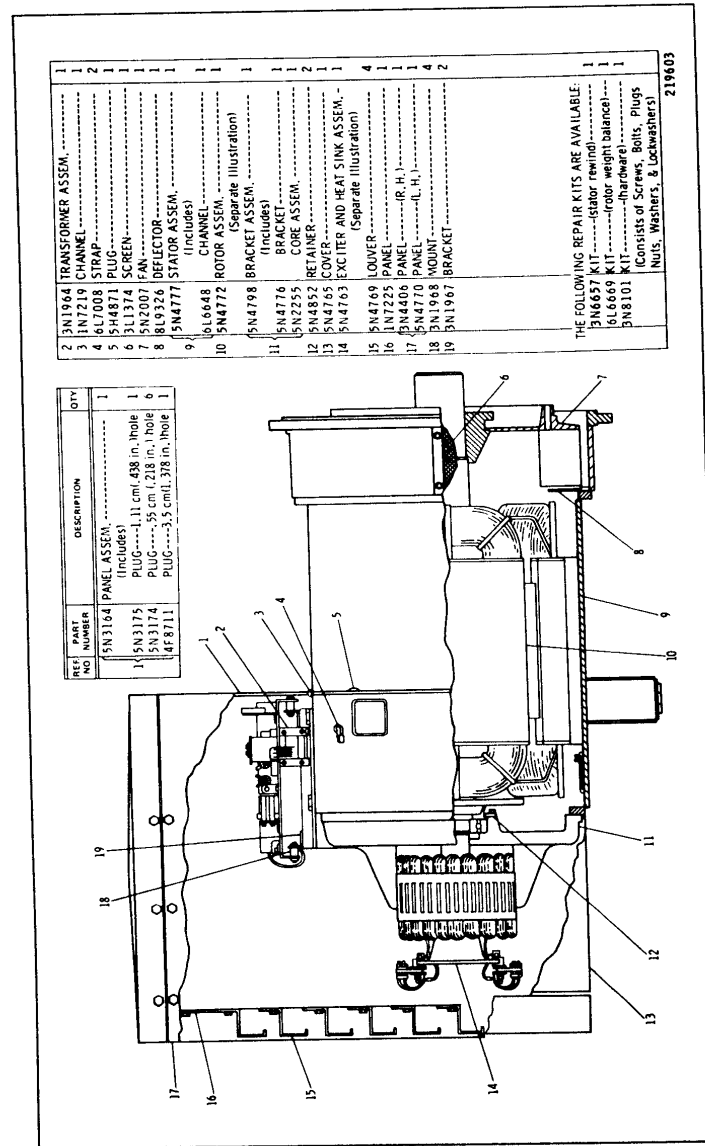
5N66 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 448BS3000 to 448BS5999 inclusive
 208-416 Volt, 60 hertz at 1800 R.P.M. 3N7751—Page 196



5N66 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 448BS6000—Up, 208-416 Volt, 60 hertz at 1800 R.P.M.
 5N4772—Page 198.02, 5N4763—Page 198.03

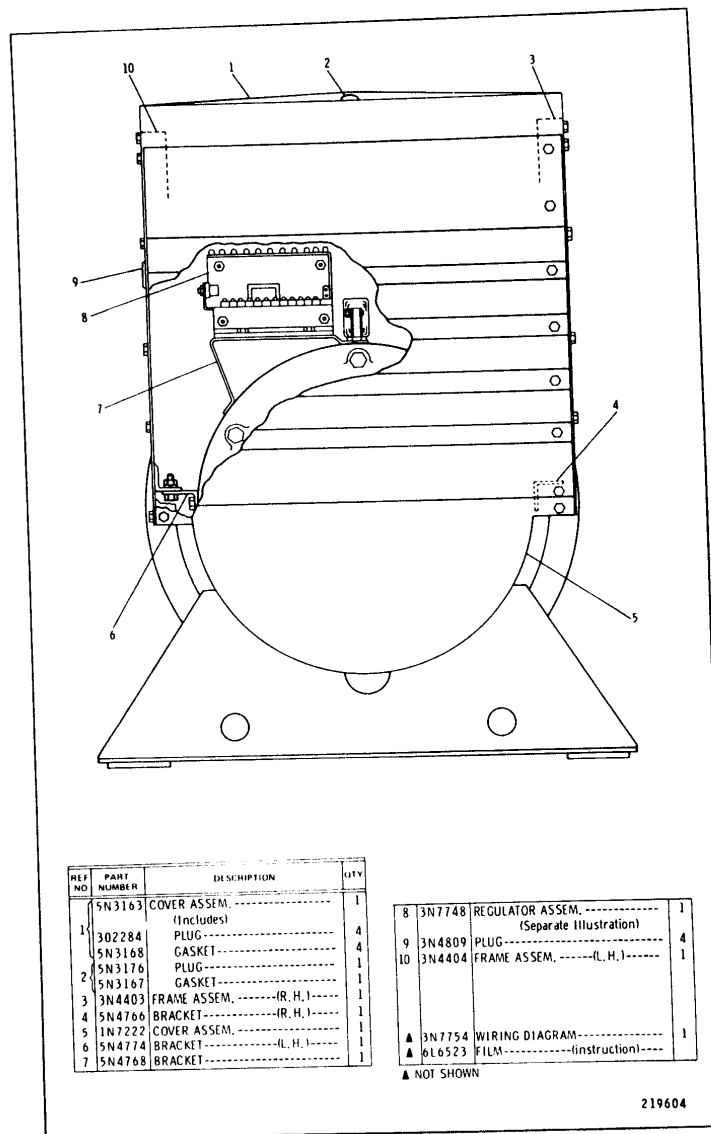


5N66 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 448BS6000—Up, 208-416 Volt, 60 hertz at 1800 R.P.M.
 3N7751—Page 196

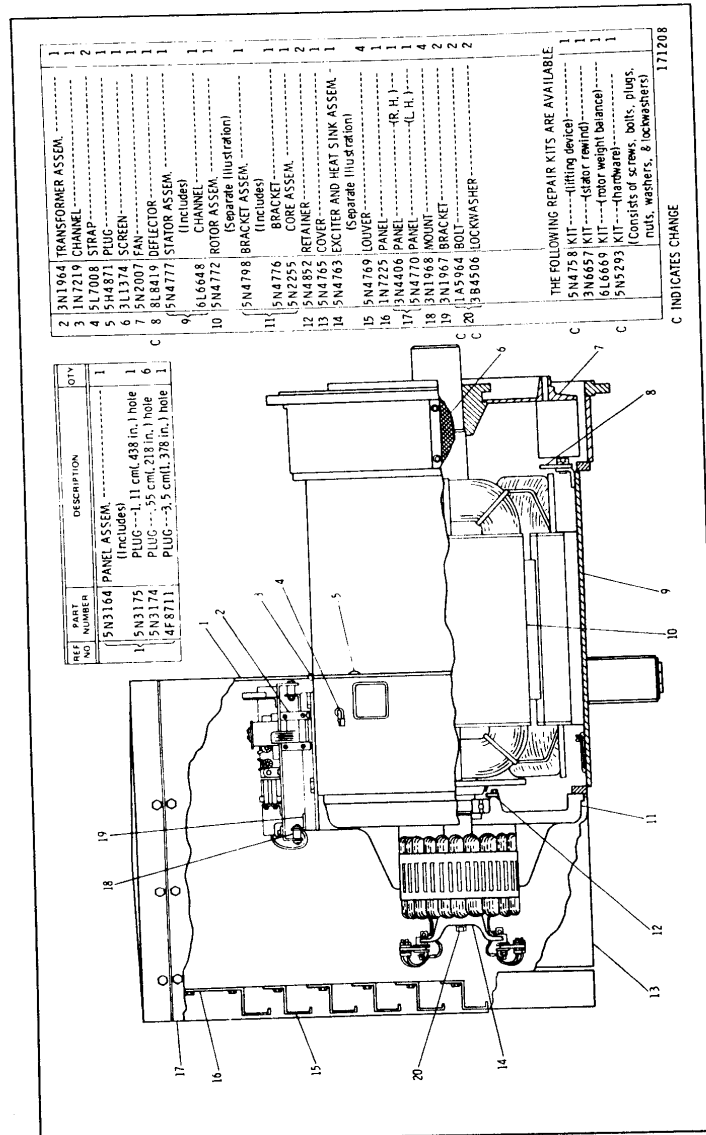


SN67 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 448EG3000 to 448EG5999 inclusive
 240-480 Volt, 50 hertz at 1500 R.P.M. and 305-600 Volt, 60 hertz at 1800 R.P.M.
 SN4772—Page 198.02, SN4763—Page 198.03

5N4772—Page 198.02, 5N4763—Page 198.03

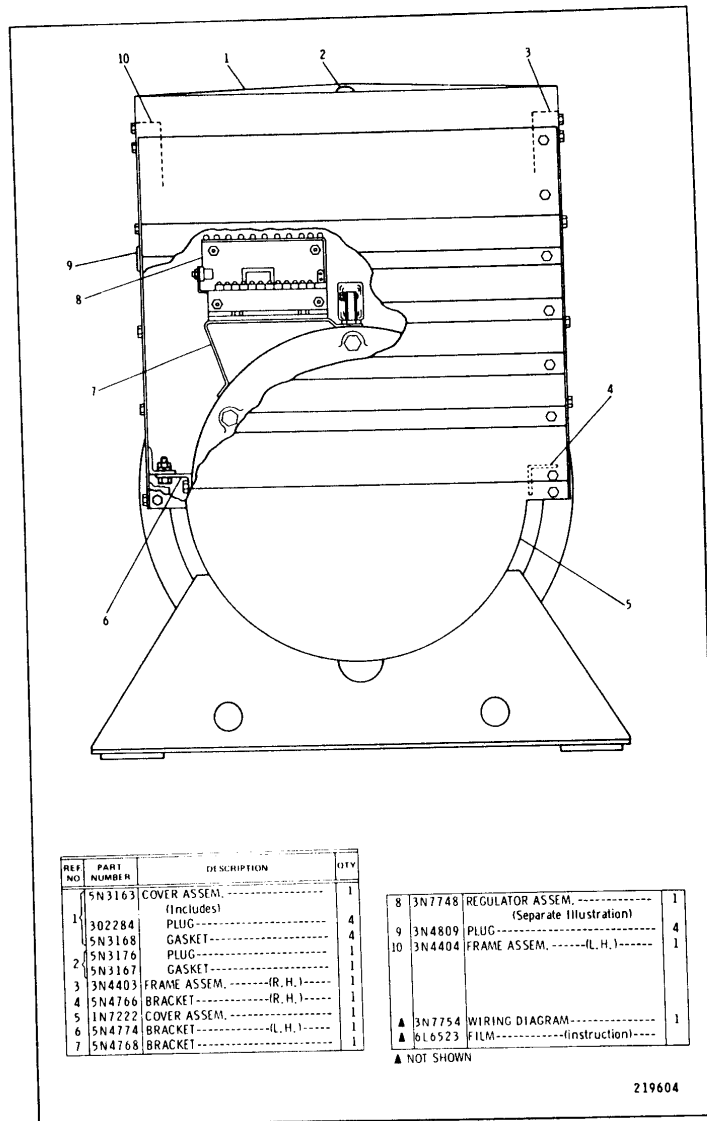


5N67 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 448BG3000 to 448BG5999 inclusive
 240-480 Volt, 50 hertz at 1500 R.P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A

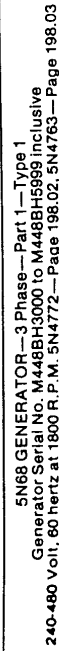


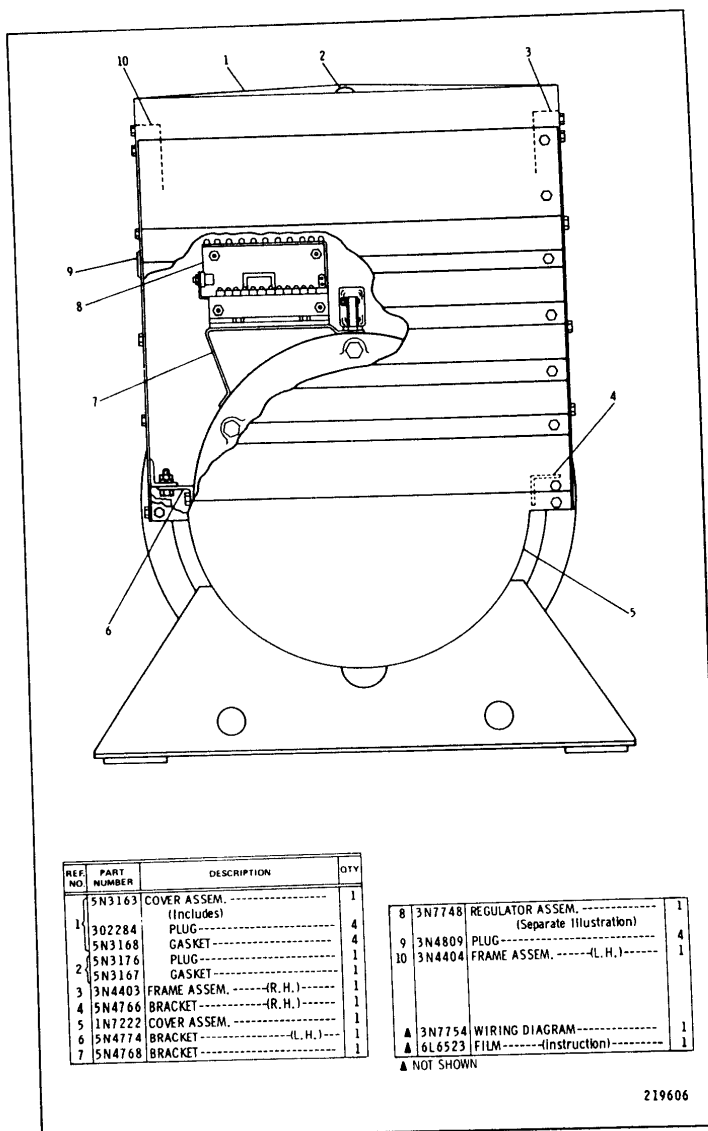
5N67 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 448BG6000—Up
 240-480 Volt, 50 hertz at 1500 R.P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 5N4772—Page 198.02, 5N4763—Page 198.03

5N4772—Page 198.02, 5N4763—Page 198.03



5N67 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 448BG6000—Up
 240-480 Volt, 50 hertz at 1500 R.P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A

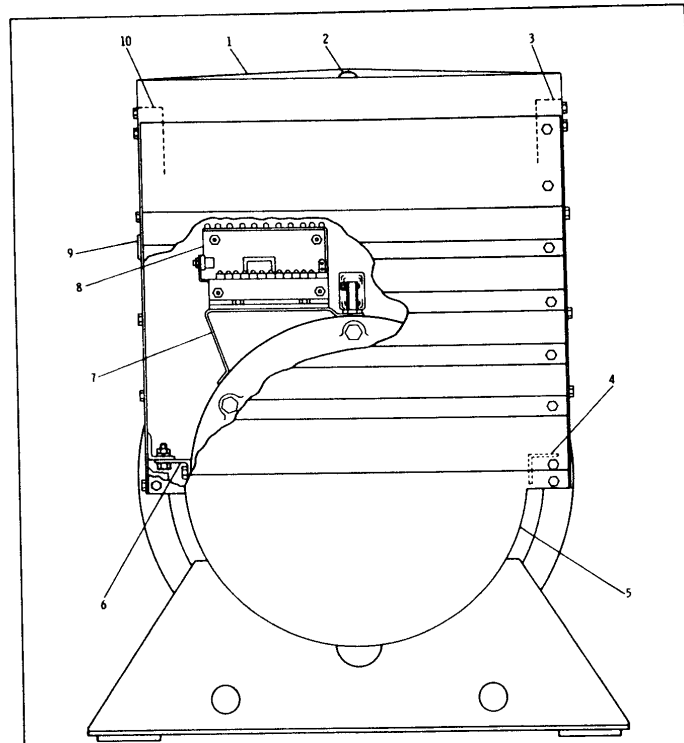




219606

5N68 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. M448BH3000 to M448BH5999 inclusive
 240-480 Volt, 60 hertz at 1800 R.P.M. 3N7748—Page 196A

5N4772—Page 198.02, 5N4763—Page 198.03

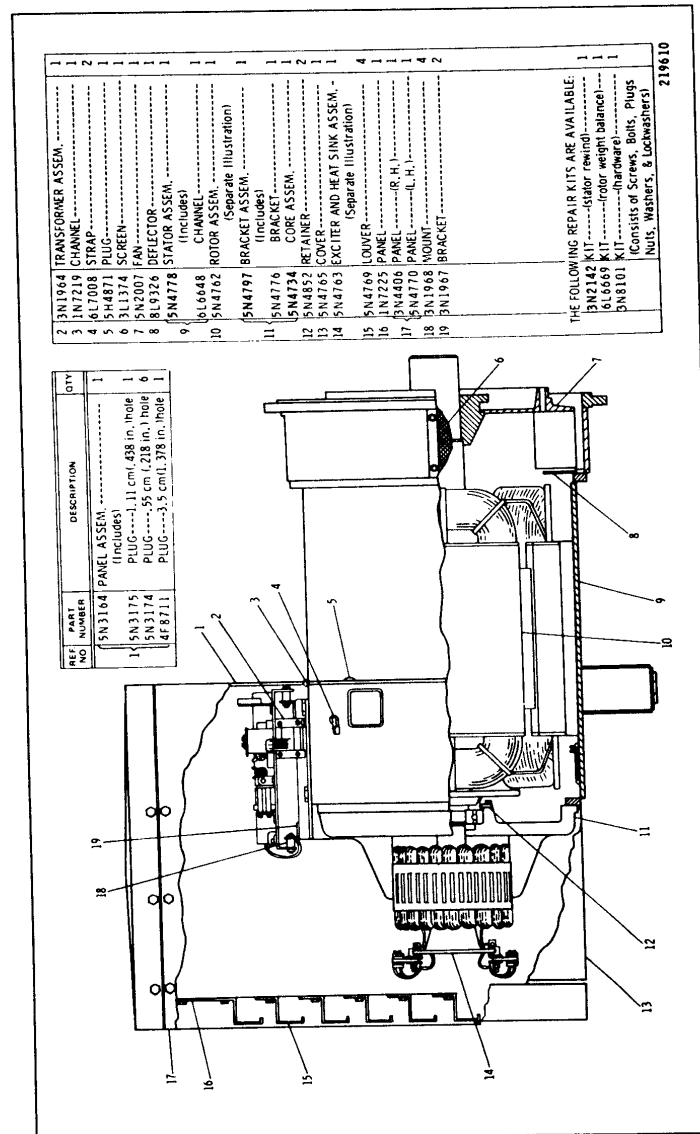


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	5N3163	COVER ASSEM. -----	1
		(includes)	
	302284	PLUG -----	4
	5N3168	GASKET -----	4
	5N3176	PLUG -----	1
2	5N3167	GASKET -----	1
3	3N4403	FRAME ASSEM. ----- (R.H.) -----	1
4	5N4766	BRACKET ----- (R.H.) -----	1
5	1N7222	COVER ASSEM. -----	1
6	5N4774	BRACKET ----- (L.H.) -----	1
7	5N4768	BRACKET -----	1

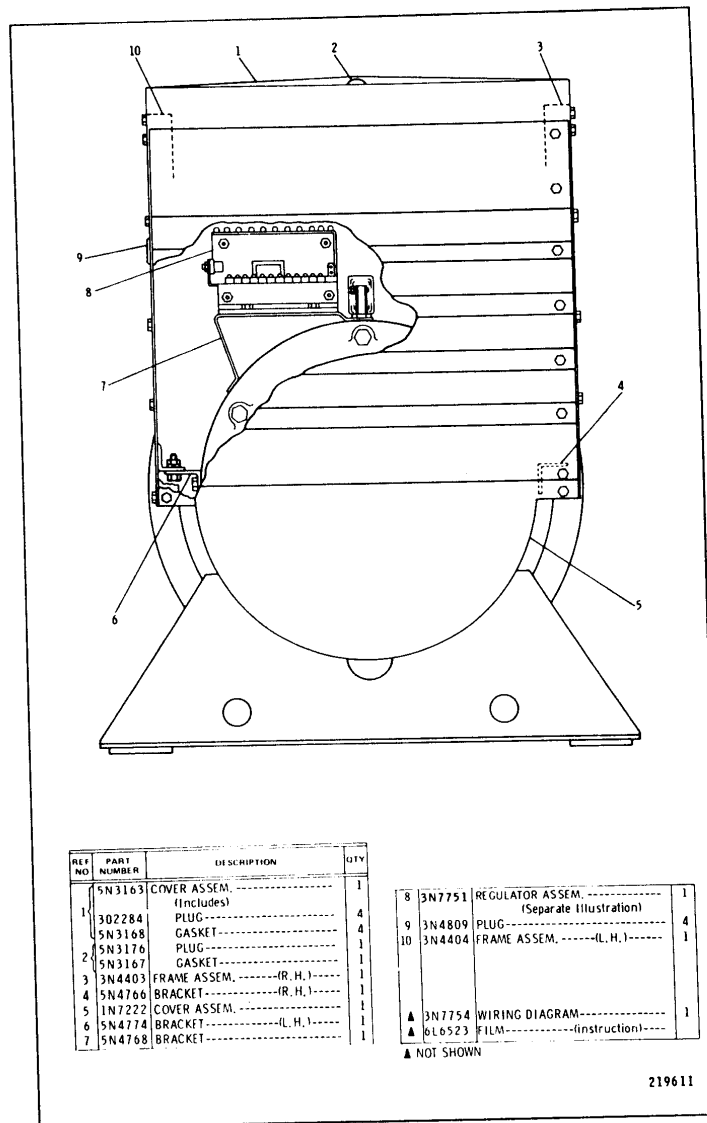
8	3N7748	REGULATOR ASSEM. -----	1
		(Separate Illustration)	
9	3N4809	PLUG -----	4
10	3N4404	FRAME ASSEM. ----- (L.H.) -----	1
▲	3N7754	WIRING DIAGRAM -----	1
▲	6L6523	FILM ----- (Instruction) -----	1
▲ NOT SHOWN			

219606

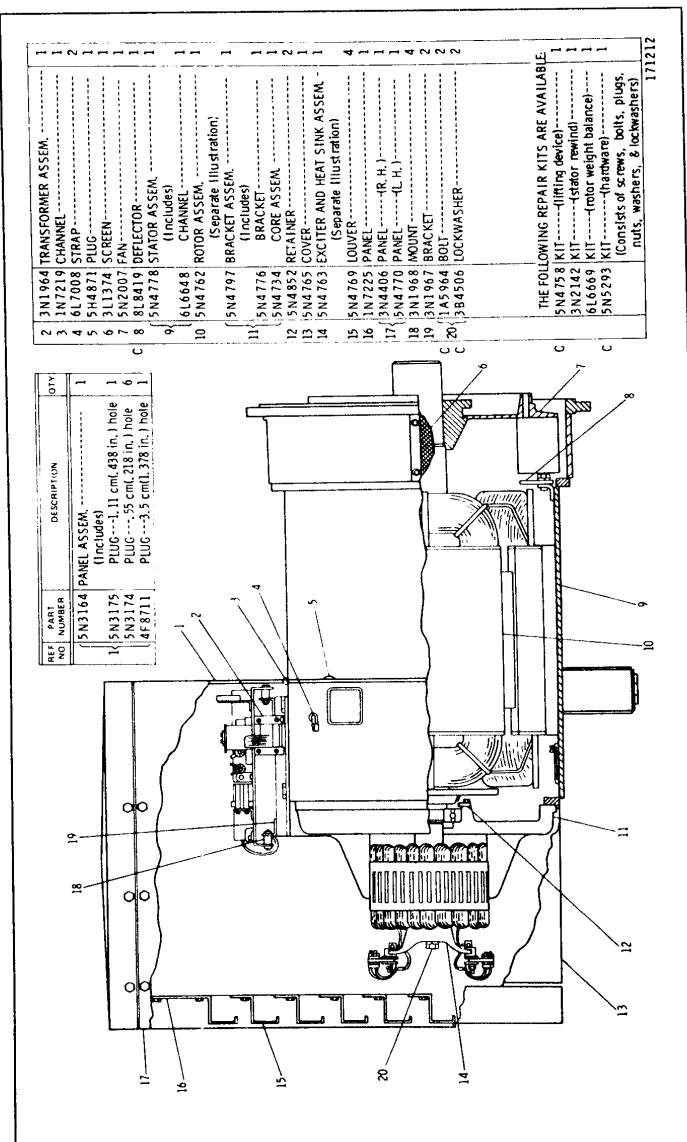
5N68 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. M448BH6000—Up. 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A



SN69 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. 449BS00 to 449BS5999 inclusive, 208-416 Volt, 60 hertz at 1800 R.P.M.
 5N4762—Page 198.02, 5N4763—Page 198.03

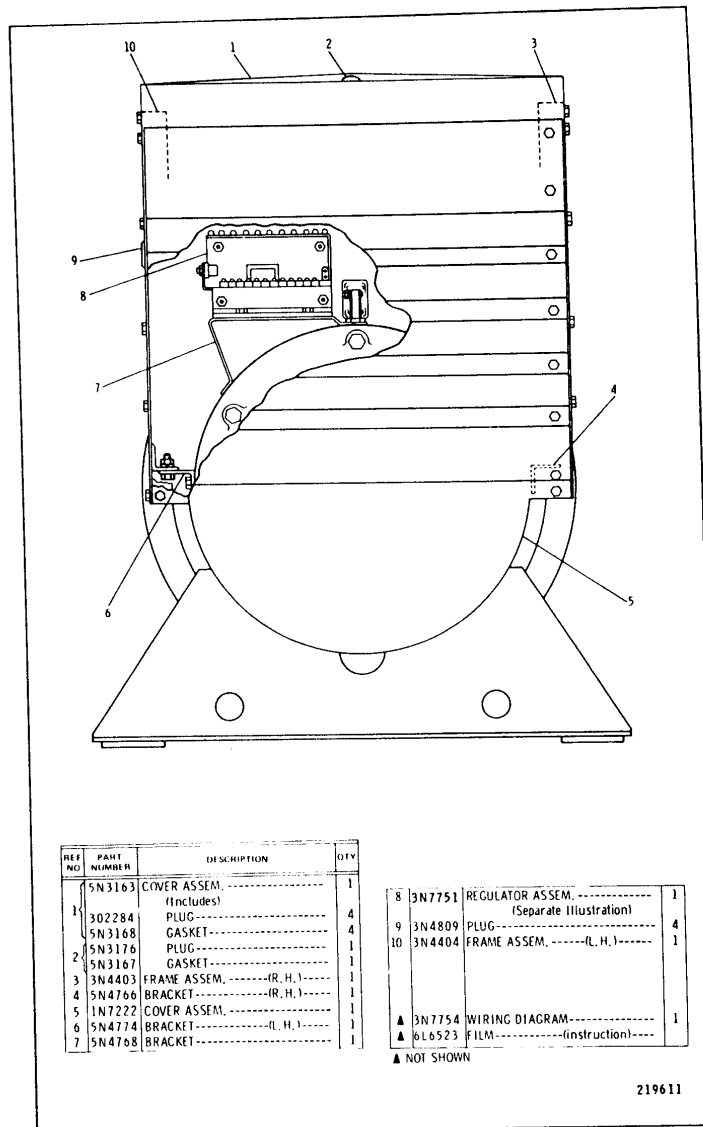


5N69 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 449BS3000 to 449BS5999 Inclusive
 208-416 Volt, 60 hertz at 1800 R.P.M. 3N7751—Page 198

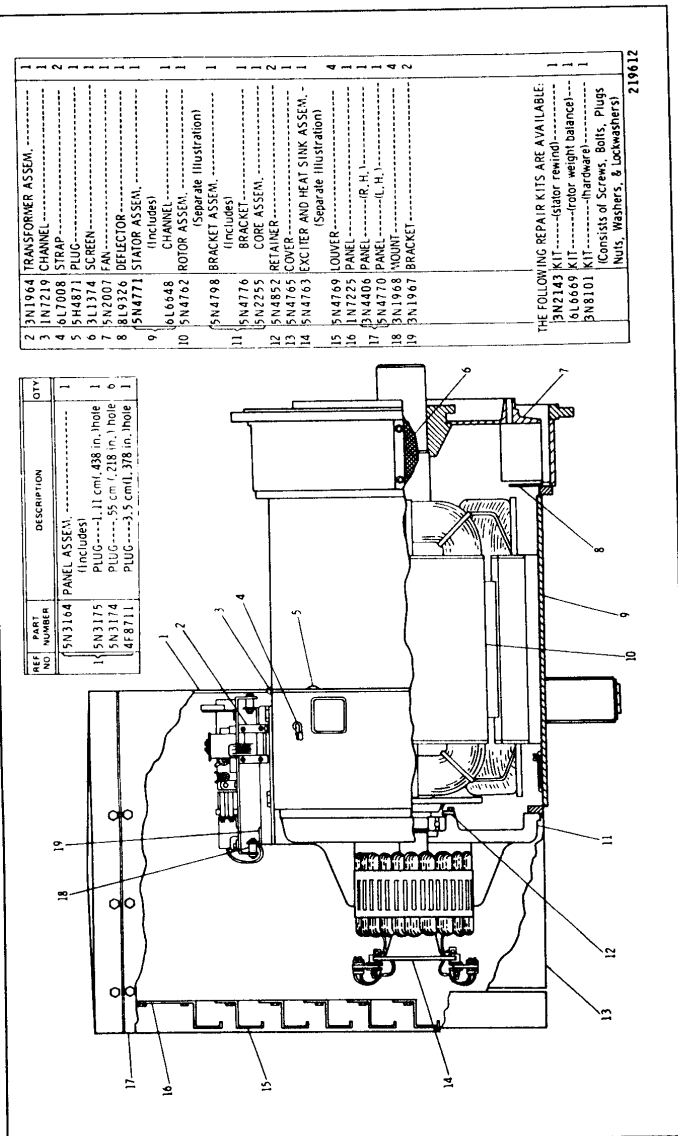


5N69 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 449BS6000—Up 208-416 Volt, 60 hertz at 1800 R.P.M.
 5N4762—Page 198.02, 5N4763—Page 198.03

5N4762—Page 198.02, 5N4763—Page 198.03

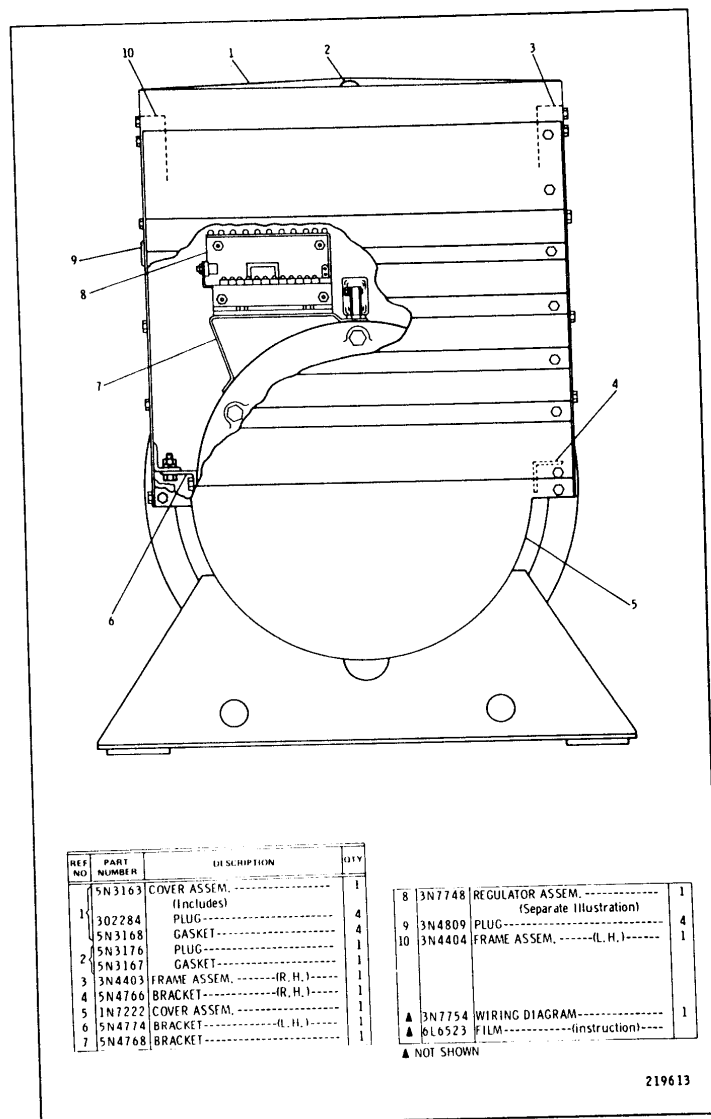


5N69 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 449BS6000—Up. 208-416 Volt, 60 hertz at 1800 R.P.M.
 3N7751—Page 196



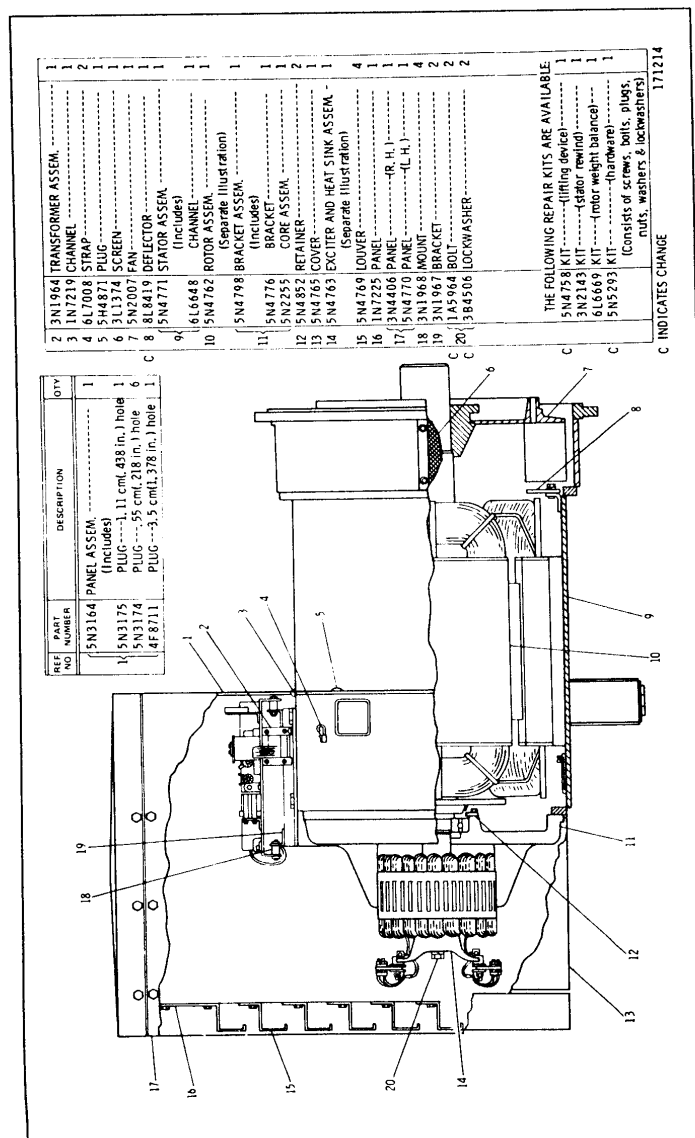
5N70 GENERATOR — 3 Phase — Part 1 — Type 1
 Generator Serial No. 449BG3000 to 449BG5999 inclusive
 240-480 Volt, 50 hertz at 1500 P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 5N4762 — 198.02, 5N4763 — Page 198.03

5N4762 — 198.02, 5N4763 — Page 190.03

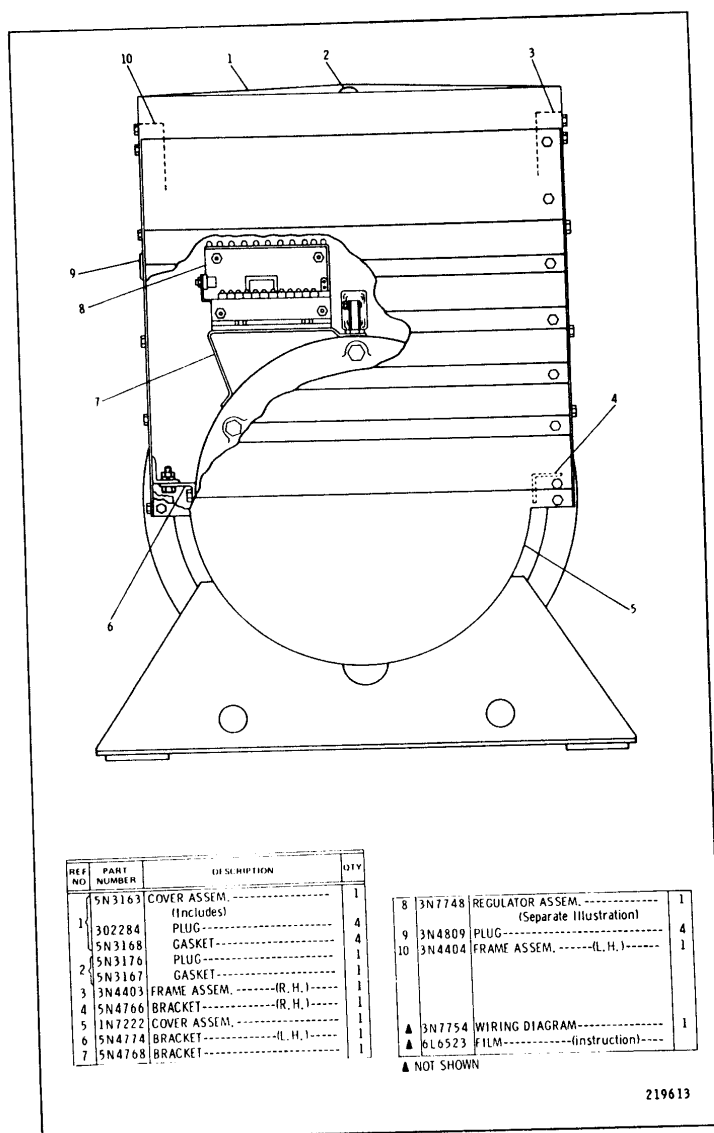


219613

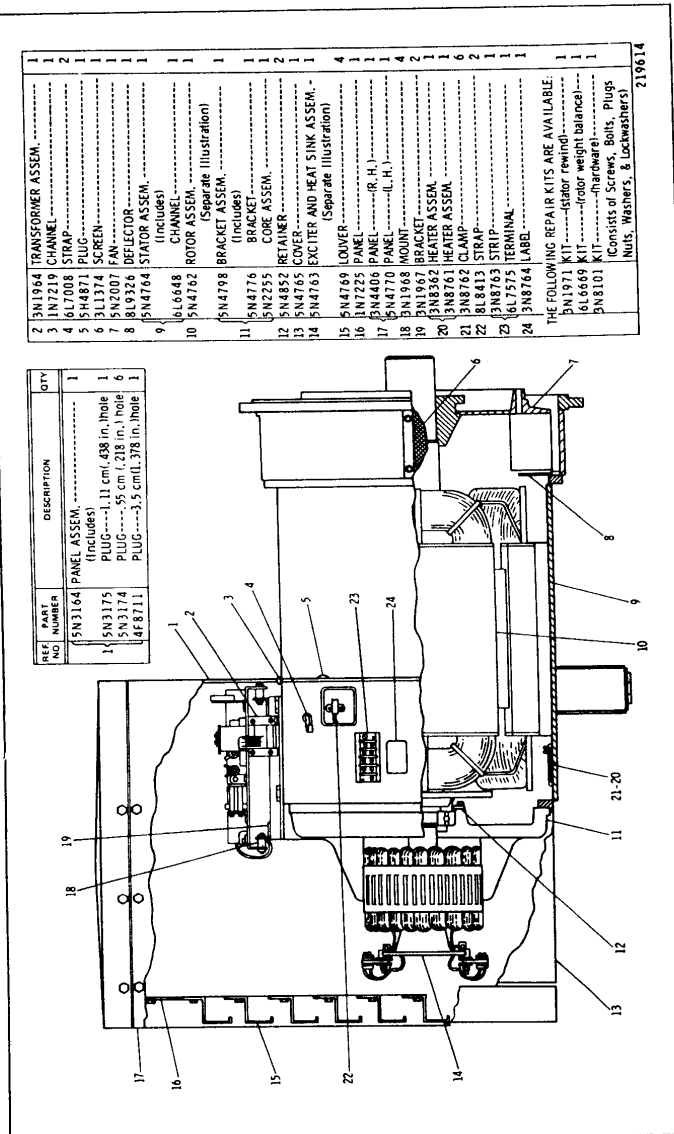
5N70 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. 449BG3000 to 449BG5999 inclusive
 240-480 Volt, 50 hertz at 1500 R.P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A



5N70 GENERATOR—3 Phase—Part 1—Type 2
 Generator Serial No. 449BG6000—Up
 240-480 Volt, 50 hertz at 1500 R.P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 5N4762—Page 198.02, 5N4763—Page 198.03

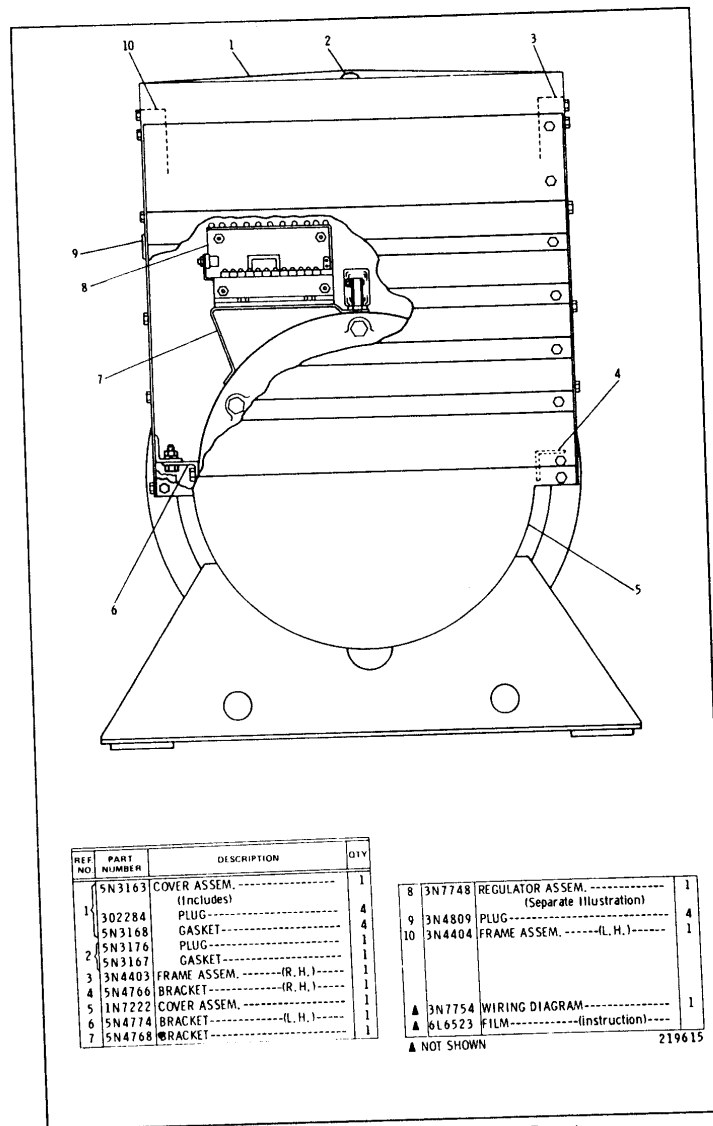


5N70 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. 449BG6000—Up
 240-480 Volt, 50 hertz at 1500 R.P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A

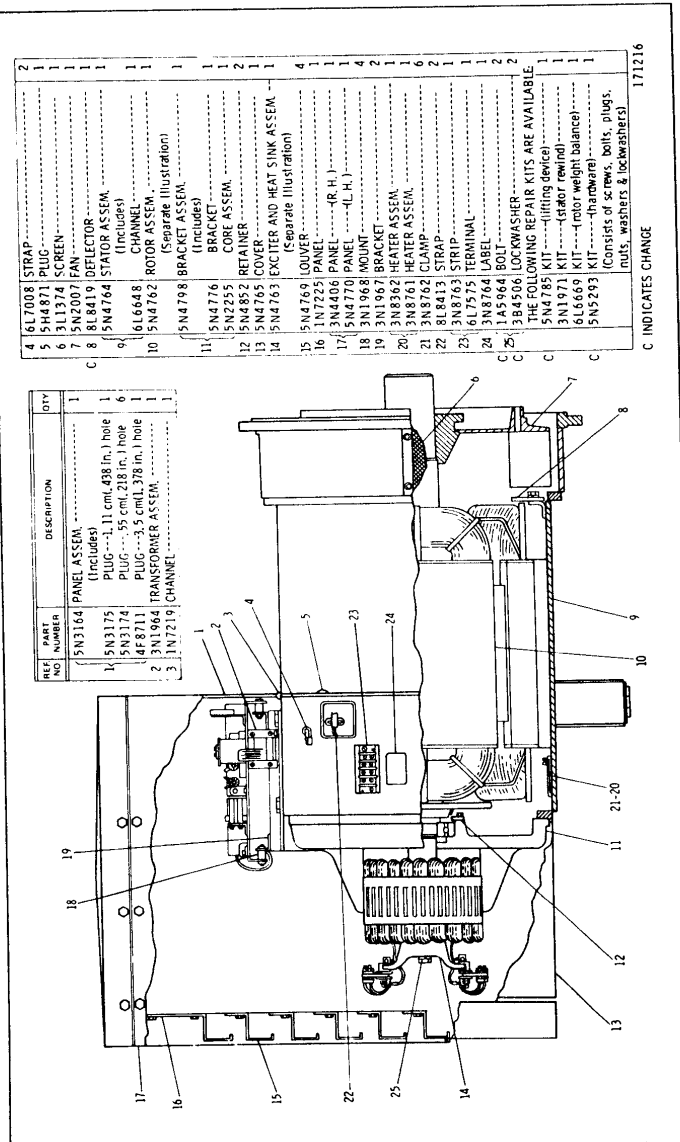


5N71 GENERATOR—3 Phase—Part 1—Type 1
 Generator Serial No. M449BH3000 to M449BH5999 inclusive
 200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.
 5N4762 — Page 198.02, 5N4763 — Page 198.03

5N4762—Page 198.02, 5N4763—Page 198.03



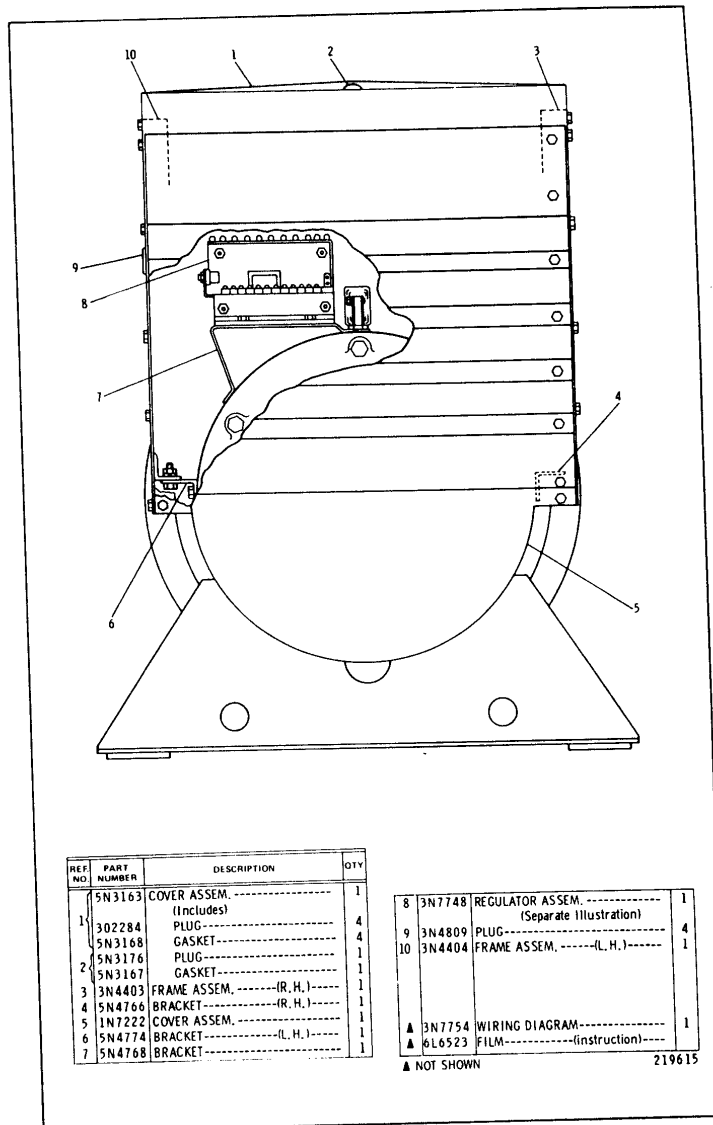
5N71 GENERATOR—3 Phase—Part 2—Type 1
 Generator Serial No. M449BH3000 to M449BH5999 inclusive
 200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A



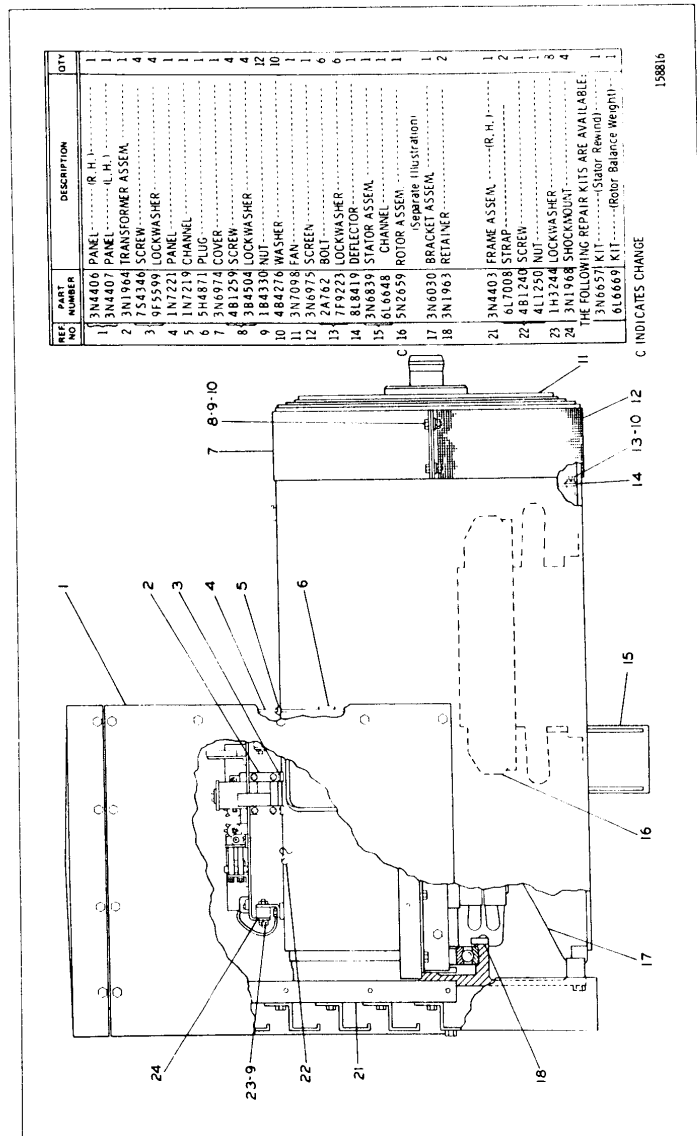
5N71 GENERATOR—3 Phase—Part 1—Type 2

Generator Serial No. M449BH6000—Up
 200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.
 5N4762—Page 198.02 5N4763—Page 198.03

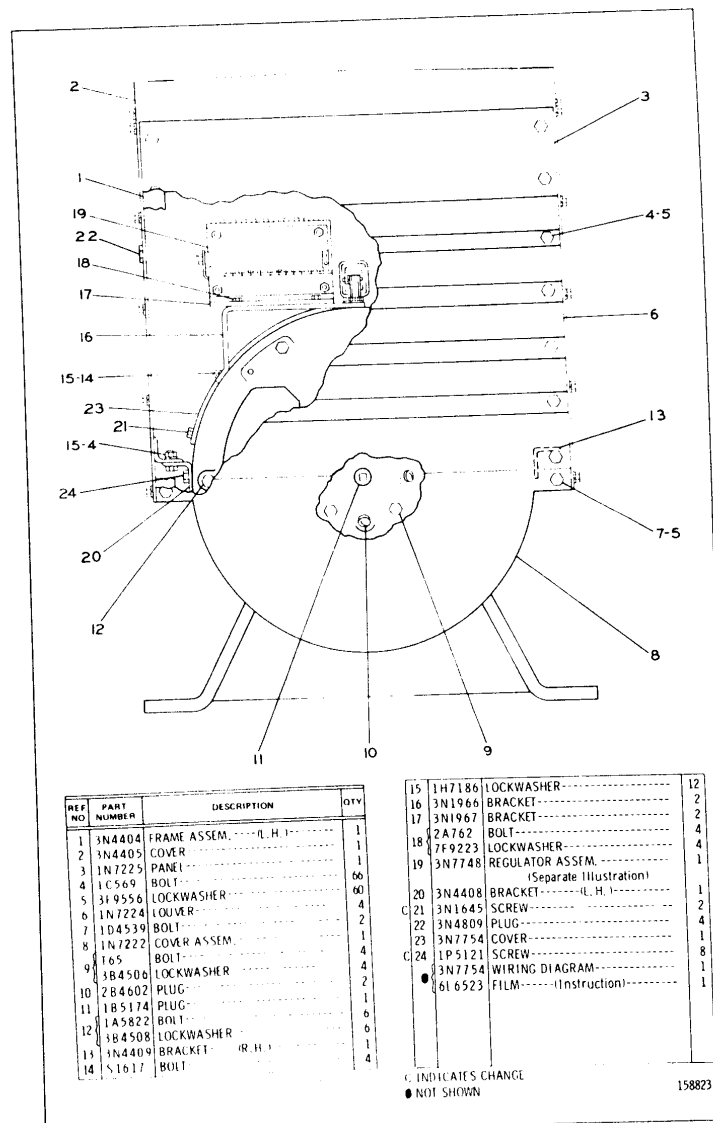
5N4762—Page 198.02. 5N4763—Page 196.03



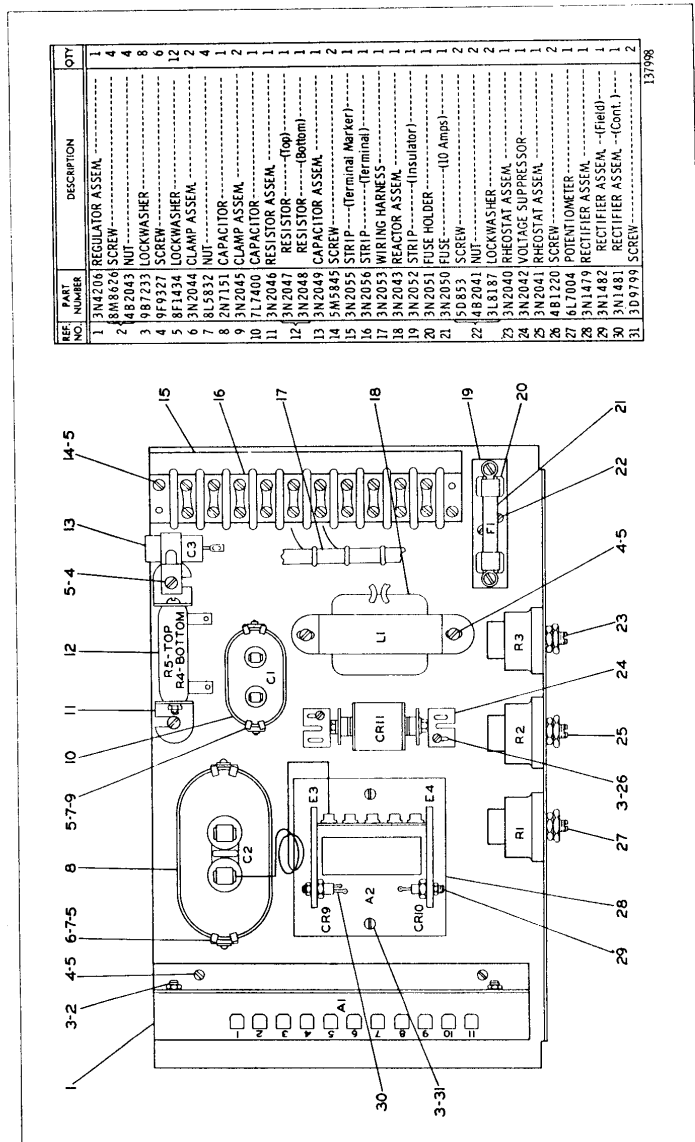
5N71 GENERATOR—3 Phase—Part 2—Type 2
 Generator Serial No. M449BH6000—Up
 200-400 Volt, 50 hertz at 1500 R.P.M. and 240-480 Volt, 60 hertz at 1800 R.P.M.
 3N7748—Page 196A



5N35 GENERATOR—3 Phase—Part 1—Type 3
 Generator Serial No. 48BG600—Up
 240-480 Volt, 50 hertz at 1500 R.P.M. and 300-600 Volt, 60 hertz at 1800 R.P.M.
 5N2659 Rotor parts are shown on Page 196D

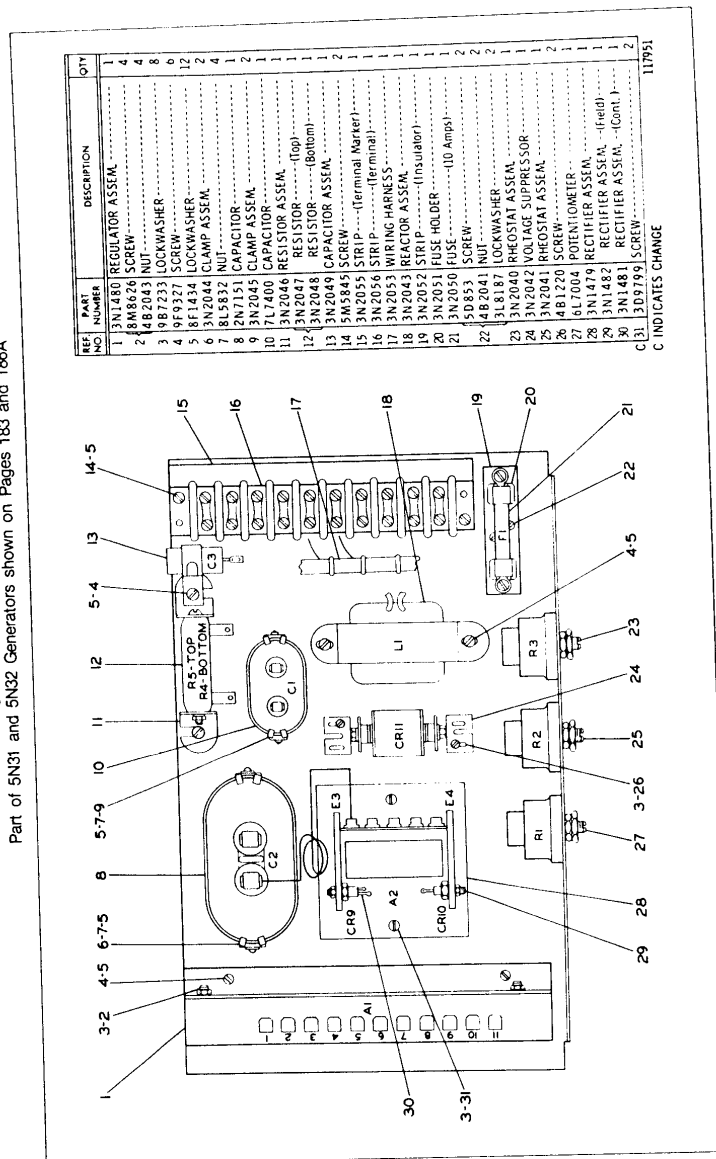


5N35 GENERATOR—3 Phase—Part 2—Type 3
 Generator Serial No. 48BG600—Up. 240-480 volt, 50 hertz at 1500 R.P.M. and 300-600
 Volt, 60 hertz at 1800 R.P.M. 3N7748 Regulator parts are shown on Page 196A



5N8 REGULATOR ASSEMBLY
Part of 5N30 Generator shown on Page 179

5N9 REGULATOR ASSEMBLY
Part of 5N31 and 5N32 Generators shown on Pages 183 and 186A

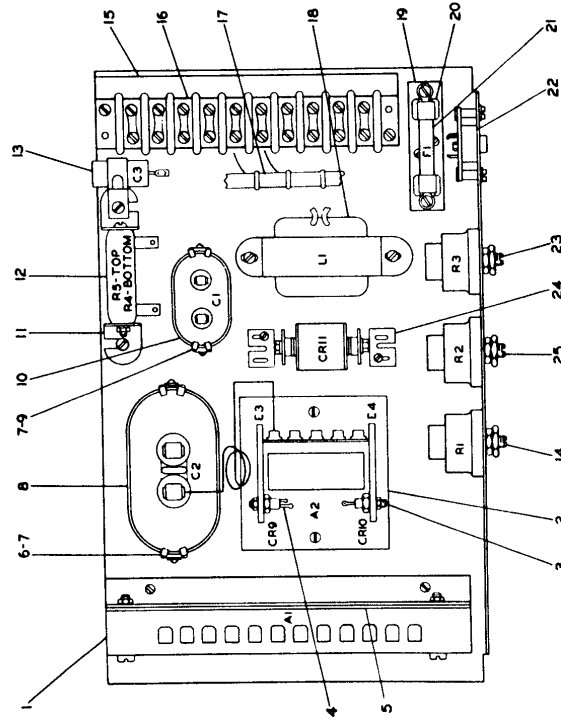


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	3N1480	REGULATOR ASSEM.	1
2	8M8676	SCREW	4
3	4B2043	LOCKWASHER	4
4	9B7233	LOCKWASHER	8
5	9F9327	LOCKWASHER	12
6	3N2044	CLAMP ASSEM.	2
7	8L5832	NUT	4
8	2N7151	CAPACITOR	1
9	3N2045	CLAMP ASSEM.	2
10	7L7400	CAPACITOR	1
11	3N2046	RESISTOR ASSEM. (Top)	1
12	3N2047	RESISTOR ASSEM. (Bottom)	1
13	3N2048	RESISTOR	1
14	5M5845	SCREW	2
15	3N2055	STRIP	1
16	3N2056	WIRING HARNESS	1
17	3N2053	REACTOR ASSEM.	1
18	3N2052	STRIP	1
19	3N2051	FUSE HOLDER	1
20	3N2050	FUSE	2
21	5D853	SCREW	2
22	4B2041	LOCKWASHER	2
23	3N2040	HEMOSTAT ASSEM.	1
24	3N2042	HEMOSTAT ASSEM.	1
25	3N2040	HEMOSTAT ASSEM.	1
26	4B2040	SCREW	2
27	3N2040	HEMOSTAT ASSEM.	1
28	3N1479	POTENTIOMETER	1
29	3N1482	RECTIFIER ASSEM. (Field)	1
30	3N1481	RECTIFIER ASSEM. (Cont. 1)	1
31	3D9799	SCREW	2
C INDICATES CHANGE			117951

REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	3N1848	REGULATOR ASSEM.	1
2	3N1479	RECTIFIER ASSEM. (field) ...	1
3	3N1482	RECTIFIER ASSEM. (cont.) ...	1
4	3N1481	RECTIFIER ASSEM. (cont.) ...	1
5	3N4471	INSULATOR ...	1
6	3N2044	CLAMP ASSEM. ...	2
7	8L5832	WIRE ...	4
8	2N7151	CAPACITOR ...	1
9	3N2045	CLAMP ASSEM. ...	1
10	7L7400	CAPACITOR ...	1
11	3N2046	RESISTOR ASSEM. ... (includes) ...	1
12	3N2047	RESISTOR ... (bottom) ...	1
13	3N2048	CAPACITOR ASSEM. ...	1
14	3N2049	POTENTIOMETER ...	1
15	3N2053	STRIP ... (terminal marker) ...	1
16	3N2056	STRIP ... (terminal) ...	1
17	3N7749	WIRING HARNESS ...	1
18	3N2043	REACTOR ASSEM. ... (identify) ...	1
19	5N3959	FUSE HOLDER ... (10 amps) ...	1
20	3N2050	FUSE ...	1
21	3N7750	PROTECTOR ...	2
22	3N7752	SPACER ...	1
23	3N2040	RHEOSTAT ASSEM. ...	1
24	3N2042	VOLTAGE SUPPRESSOR ...	1
25	3N2041	RHEOSTAT ASSEM. ...	1
THE FOLLOWING REPAIR KIT IS AVAILABLE:			1
3N5536 KIT ... (includes Screws, Nuts, and Lockwashers)			1

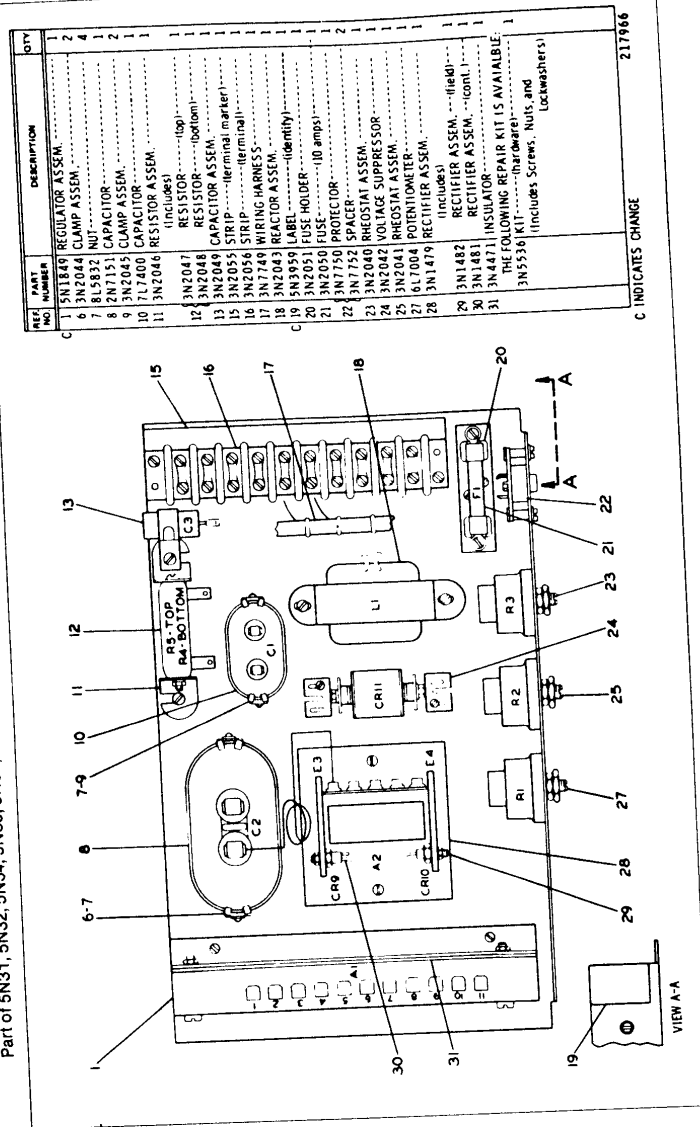
C INDICATES CHANGE

217967



3N7751 REGULATOR ASSEMBLY
Part of 5N30, 5N33, 5N66 and 5N69 Generators shown on Pages 181, 181B and 189

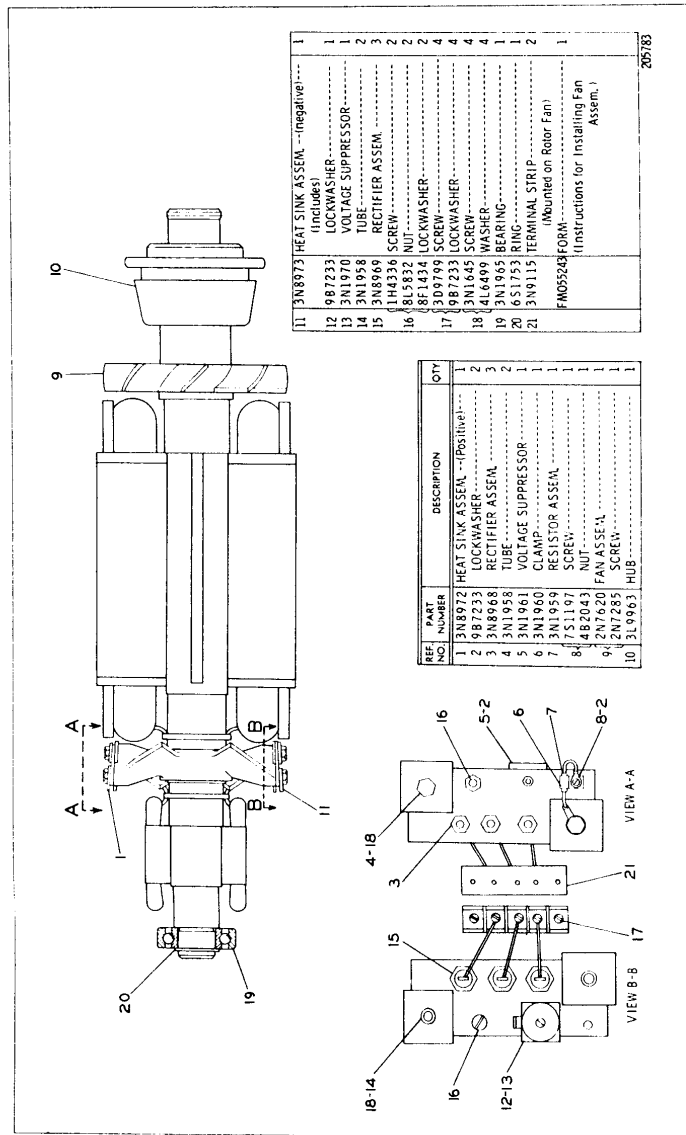
3N7748 REGULATOR ASSEMBLY
Part of 5N31, 5N32, 5N34, 5N35, 5N64, 5N65, 5N66, 5N67, 5N68, 5N70 and 5N71 Generators shown on Pages 185, 187, 191 and 193



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	5N1849	REGULATOR ASSEM.	1
2	3N2044	CLAMP ASSEM.	2
3	8L5832	CAPACITOR	4
4	2N7151	CLAMP ASSEM.	2
5	3N2045	CAPACITOR	1
6	7L7400	CAPACITOR	1
7	3N2046	RESISTOR ASSEM.	1
8	3N2047	RESISTOR (top)	1
9	3N2048	RESISTOR (bottom)	1
10	3N2049	CAPACITOR ASSEM.	1
11	3N2050	STRIP (terminal marker)	1
12	3N2051	STRIP (terminal)	1
13	3N2052	STRIP (terminal)	1
14	3N2053	STRIP (terminal)	1
15	3N2054	STRIP (terminal)	1
16	3N2055	STRIP (terminal)	1
17	3N7749	WIRING HARNESS	1
18	3N2043	REACTOR ASSEM.	1
19	5N3959	LABEL	1
20	3N2051	FUSE HOLDER (10 amps)	1
21	3N2050	PROTECTOR	2
22	3N7750	SPACER	1
23	3N2040	RHEOSTAT ASSEM.	1
24	3N2042	VOLTAGE SUPPRESSOR	1
25	3N2041	POTENTIOMETER	1
26	6L7004	POTENTIOMETER	1
27	3N1479	RECTIFIER ASSEM.	1
28	3N1479	RECTIFIER ASSEM. (includes)	1
29	3N1482	RECTIFIER ASSEM. (field)	1
30	3N1481	RECTIFIER ASSEM. (cont.)	1
31	3N1481	INSULATOR	1
32	3N1481	INSULATOR	1
33	3N1481	INSULATOR	1
34	3N1481	INSULATOR	1
35	3N1481	INSULATOR	1
36	3N1481	INSULATOR	1
37	3N1481	INSULATOR	1
38	3N1481	INSULATOR	1
39	3N1481	INSULATOR	1
40	3N1481	INSULATOR	1
41	3N1481	INSULATOR	1
42	3N1481	INSULATOR	1
43	3N1481	INSULATOR	1
44	3N1481	INSULATOR	1
45	3N1481	INSULATOR	1
46	3N1481	INSULATOR	1
47	3N1481	INSULATOR	1
48	3N1481	INSULATOR	1
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80	3N1481	INSULATOR	1
81	3N1481	INSULATOR	1
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84	3N1481	INSULATOR	1
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88	3N1481	INSULATOR	1
89	3N1481	INSULATOR	1
90	3N1481	INSULATOR	1
91	3N1481	INSULATOR	1
92	3N1481	INSULATOR	1
93	3N1481	INSULATOR	1
94	3N1481	INSULATOR	1
95	3N1481	INSULATOR	1
96	3N1481	INSULATOR	1
97	3N1481	INSULATOR	1
98	3N1481	INSULATOR	1
99	3N1481	INSULATOR	1
100	3N1481	INSULATOR	1

C INDICATES CHANGE

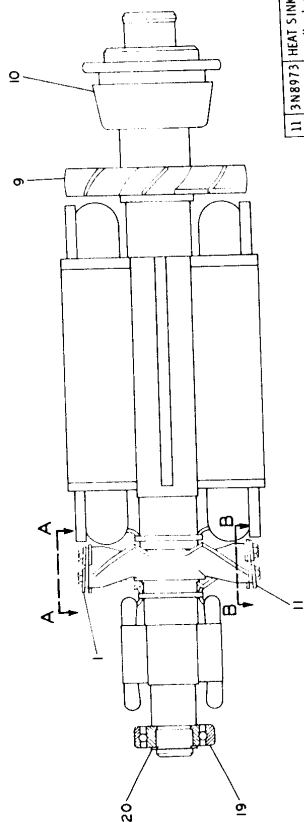
217966



3N9113 ROTOR ASSEMBLY

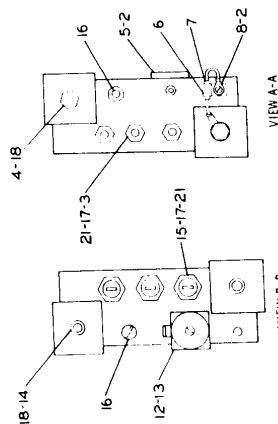
Part of 5N33, 5N34 and 5N35 Generators shown on Pages 188B, 190B and 192B

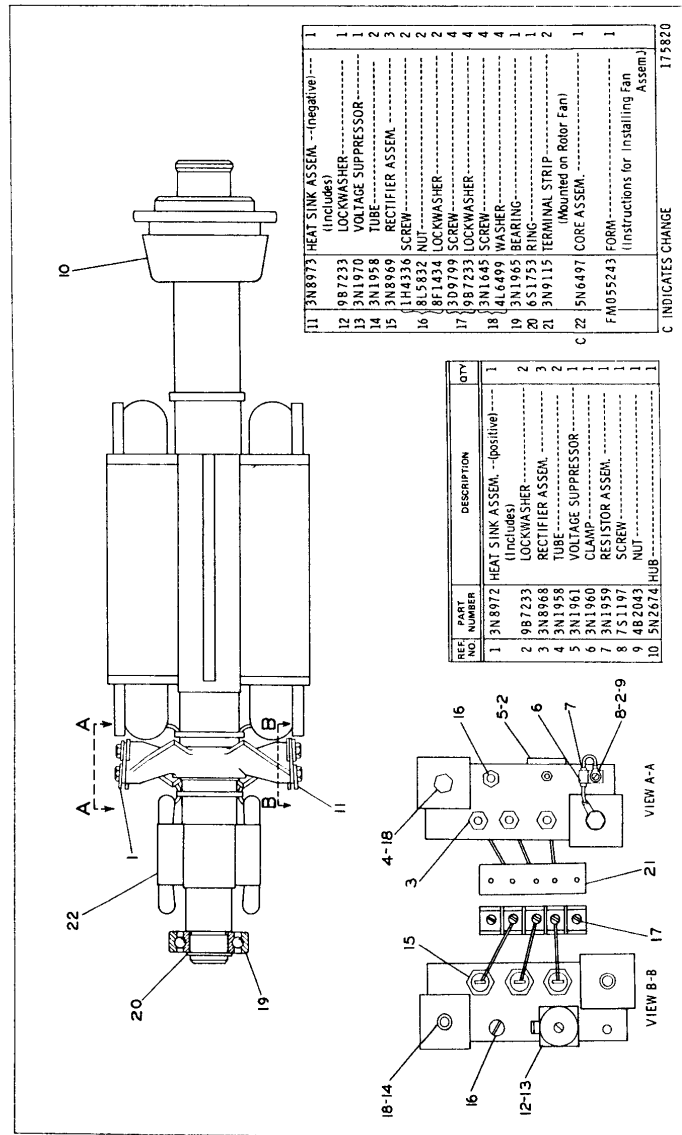
3N9410 ROTOR ASSEMBLY
Part of 5N30, 5N31 and 5N32 Generators shown on Pages 180B, 184B and 186D



11	3N8973	HEAT SINK ASSEM. --(negative)-- (includes)	1
12	9B7233	LOCKWASHER	1
13	3N1970	VOLTAGE SUPPRESSOR	2
14	3N1958	TUBE	3
15	3N8969	RECTIFIER ASSEM.	2
16	1H4336	SCREW	2
17	8L5832	NUT	2
18	8F1434	LOCKWASHER	4
19	3D9799	SCREW	4
20	3N1645	SCREW	4
21	4L6499	WASHER	1
22	3N1965	BEARING	1
23	6S1753	CLAMP	2
24	3N9115	STRIP	1
25	FN04243	FORM	1
26		(Instructions for Installing Fan Assem.)	20586

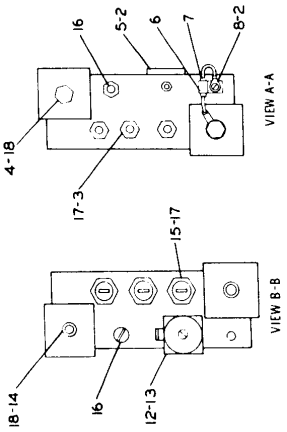
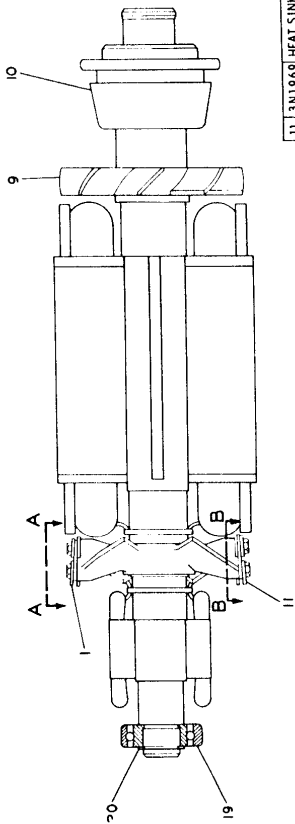
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	3N8972	HEAT SINK ASSEM. --(Positive)--	1
2	9B7233	LOCKWASHER	2
3	3N8968	RECTIFIER ASSEM.	3
4	3N1958	TUBE	2
5	3N1961	VOLTAGE SUPPRESSOR	2
6	3N1960	CLAMP	1
7	3N1959	RESISTOR ASSEM.	1
8	7S1197	SCREW	1
9	482043	NUT	1
10	2N7620	FAN ASSEM.	1
11	2N7285	SCREW	1
12	3L9963	HUB	1





5N2659 ROTOR ASSEMBLY
Part of 5N35 Generator shown on Page 193A

3N6016 ROTOR ASSEMBLY
Part of 5N30, 5N31 and 5N32 Generators shown on Pages 178, 180, 182, 184, 186 and 186B

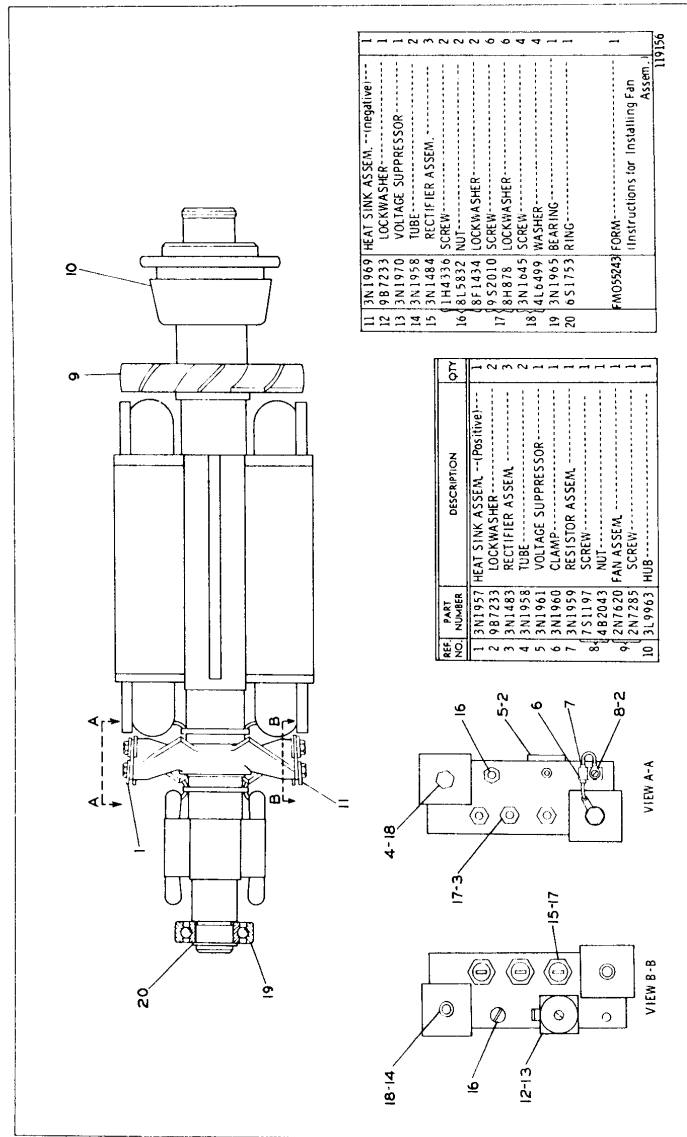


REF NO	PART NUMBER	DESCRIPTION	QTY
1	3N1969	HEAT SINK ASSEM. --(Positive)---	1
2	9B7233	LOCKWASHER	2
3	3N1483	RECTIFIER ASSEM.	3
4	3N1958	TUBE	2
5	3N1961	VOLTAGE SUPPRESSOR	1
6	3N1960	CLAMP	1
7	3N1959	RESISTOR ASSEM.	1
8	4B2043	SCREW	1
9	2N7620	FAN ASSEM.	1
10	3L9963	HUB	1

REF NO	PART NUMBER	DESCRIPTION	QTY
11	3N1969	HEAT SINK ASSEM. --(negative)---	1
12	9B7233	LOCKWASHER	1
13	3N1970	VOLTAGE SUPPRESSOR	2
14	3N1958	TUBE	2
15	3N1484	RECTIFIER ASSEM.	3
16	1H4336	SCREW	2
17	8L5832	NUT	2
18	8F1434	LOCKWASHER	2
19	952010	SCREW	6
20	8H878	LOCKWASHER	6
C	3N1645	SCREW	4
C	4L6499	WASHER	4
C	3N1965	BEARING	1
C	651753	RING	1
	FM04263	FORM--(Instructions for Installing Fan Assem.)	1

C INDICATES CHANGE

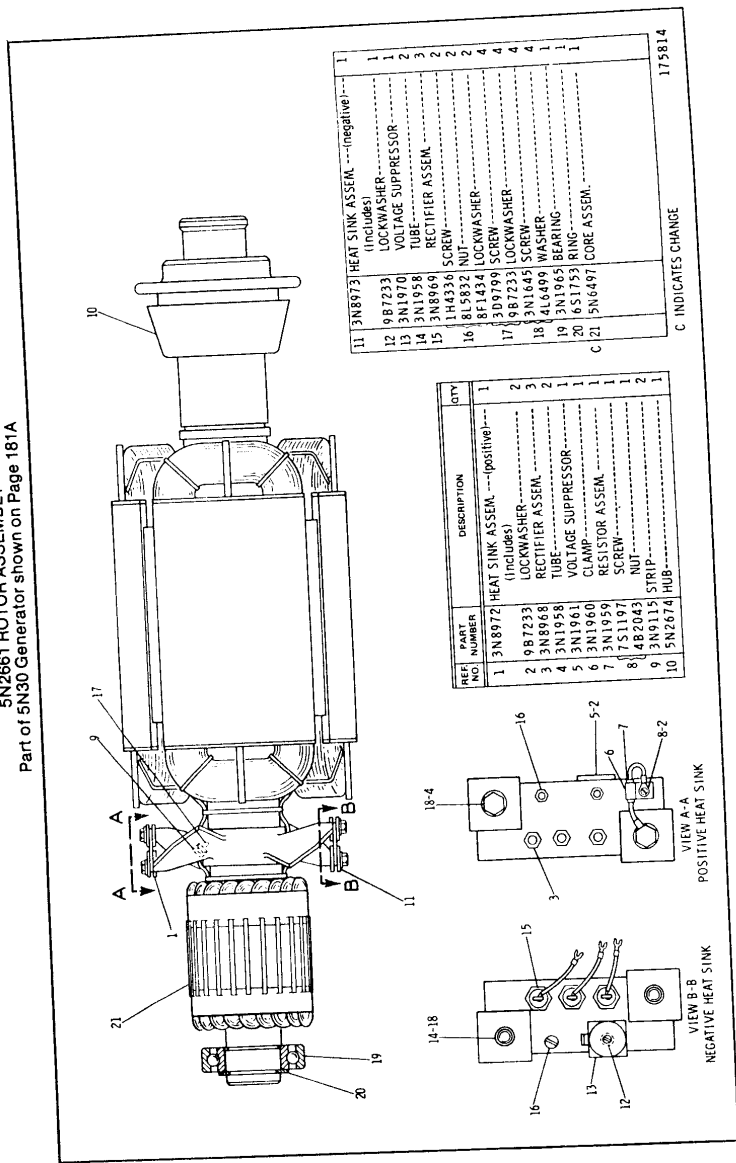
15008

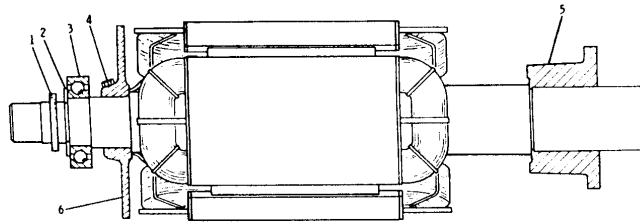


3N7094 ROTOR ASSEMBLY

Part of 5N33, 5N34 and 5N35 Generators shown on Pages 188, 190 and 192

5N2661 ROTOR ASSEMBLY
Part of 5N30 Generator shown on Page 181A



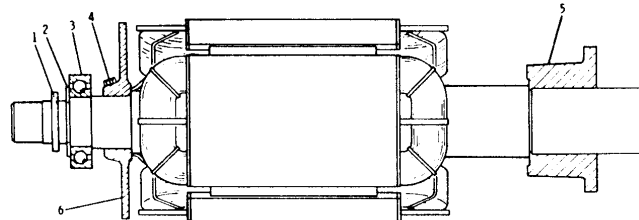


REF NO	PART NUMBER	DESCRIPTION	QTY
1	5N4779	SEAL-----	1
2	6S1753	RING-----	1
3	3N1965	BEARING-----	1
4	2N7285	SCREW-----	1

5	5N4767	HUB-----	1
6	5N4759	DISC-----	1

219600

5N4762 ROTOR ASSEMBLY
Part of 5N65, 5N69, 5N70 and 5N71 Generators



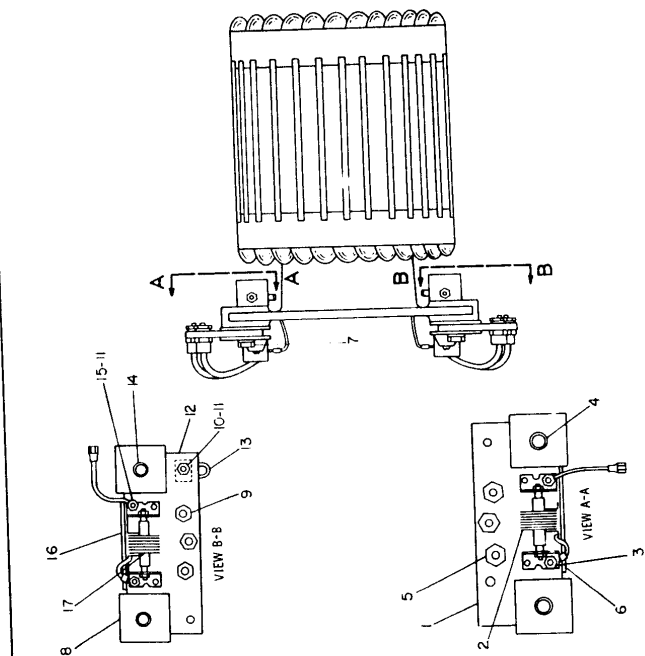
REF NO	PART NUMBER	DESCRIPTION	QTY
1	5N4779	SEAL-----	1
2	6S1753	RING-----	1
3	3N1965	BEARING-----	1
4	2N7285	SCREW-----	1

5	5N4767	HUB-----	1
6	5N4759	DISC-----	1

219596

5N4772 ROTOR ASSEMBLY
Part of 5N64, 5N66, 5N67 and 5N68 Generators

5N4763 EXCITER AND HEAT SINK ASSEMBLY — Revolving
Part of 5N64, 5N65, 5N66, 5N67, 5N68, 5N69, 5N70 and 5N71 Generators



REF	PART NUMBER	DESCRIPTION	QTY
1	5N4761	HEAT SINK ASSEM. --- (negative) --- (Includes)	1
2	5N4760	SUPPRESSION ASSEM.	1
3	3D9799	SCREW	2
4	482043	NUT	2
5	987233	LOCKWASHER	2
6	3N1958	TUBE	3
7	5N5563	RECTIFIER ASSEM.	1
8	3N9115	STRIP-TERMINAL	4
9	3N1645	SCREW	4
10	4L6499	WASHER	1
11	5N4757	HEAT SINK ASSEM. --- (positive) --- (Includes)	1
12	5N5562	RECTIFIER ASSEM.	3
13	751114	SCREW	1
14	482043	NUT	3
15	987233	LOCKWASHER	3
16	3N1958	CLAMP	1
17	5N1959	RESISTOR ASSEM.	2
18	3N1958	TUBE	2
19	3D9799	SCREW	1
20	3N9115	STRIP-TERMINAL	1
21	5N4760	SUPPRESSION ASSEM.	1

C INDICATES CHANGE

173513

MARINE SOCIETY SPARE PARTS KIT FOR CATERPILLAR ENGINES

Item	Parts Description	Number Required	
		Main	Essential Auxiliary
Cylinder Head	Head Assembly	1	—
	(w/ seats, guides, plugs, etc.)		
	Studs & Nuts (for one cylinder)	1/2 set	—
	Gasket Kit (head overhaul)	1	1
Cylinder Liner	Liner (w/ seals)	1	seals only
Cylinder Valves (for one cylinder)	(valves, springs, seats, guides, etc.)		
	Exhaust Valve & Parts	3 sets	2 sets
	Intake Valve & Parts	2 sets	1 set
Pistons (for one cylinder)	Piston Assembly (w/ rings)	1	—
	Piston Pin (w/ retainers)	1	1
	Pin Bushing	1	1
	Pistons Rings	1 set	1 set
	Connecting Rod Assembly (w/ pin bushing & cap bolts)	1	—
Bearings (for one cylinder)	Main Bearing (w/ studs & nuts)	1	1
	Thrust Bearing (crankshaft)	1	1
	Connecting Rod Bearing (crank end)	1*	1
	Connecting Rod Cap Bolts	—	1 set
Fuel System	Injection Pump (complete)	1	1
	Fuel Valves (w/ fittings)	1 set+1	1/2 set
	Injection Lines (one of each type)	1 set	1 set
**Camshaft Drive	Drive Gears (one of each type)	1 set	—
	Bearings (one of each type)	1 set	—
Turbocharger	Turbocharger (complete)	1	—
Gaskets	Gaskets & Seals to cover replacement of spare parts included	1 set	1 set

* Two required for "V" engines.

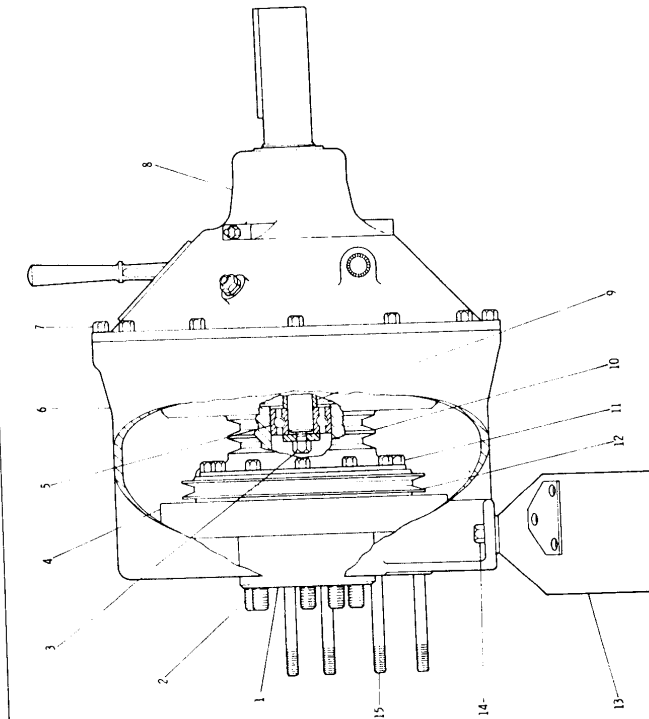
** For one bank only on "V" engines with separate drive train for each bank.

Vessels using diesel engines for main propelling or auxiliary power are required by the various marine shipping societies to carry a supply of replacement parts for on-board repairs. Although individual requirements may differ, this suggested list takes into consideration the requirements of all shipping societies. Contact your Caterpillar Dealer for requirements that affect your particular operation.

There are items on the list that are not required by shipping societies but are recommended by Caterpillar Tractor Co.

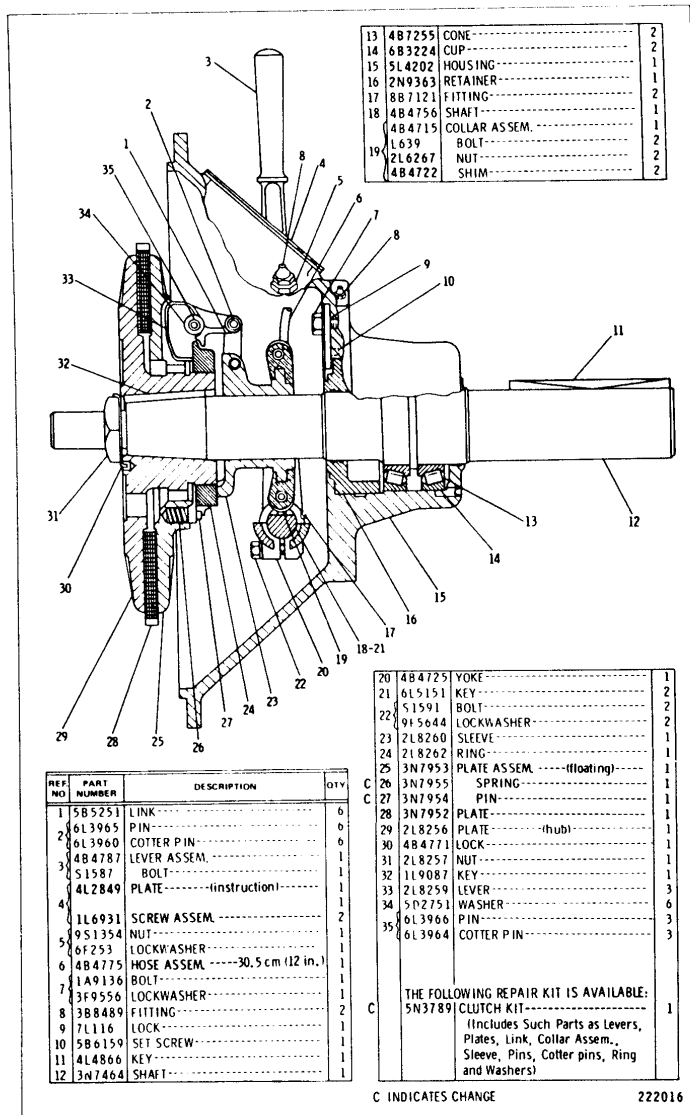
NOTE: WHEN ORDERING PARTS FOR AN ENGINE, REFER TO THE SERIAL NUMBER PLATE AND INCLUDE THE SPECIFIC SERIAL NUMBER AND ARRANGEMENT NUMBER WITH YOUR ORDER. THIS WILL ENSURE CORRECT REPLACEMENT PARTS.

6N587 SINGLE CLUTCH POWER TAKE-OFF
FOR USE WITH ELECTRIC SET AND 6N715 WATER LINES GROUP SHOWN ON PAGE 46E
3N7841 Clutch parts are shown on Page 198B

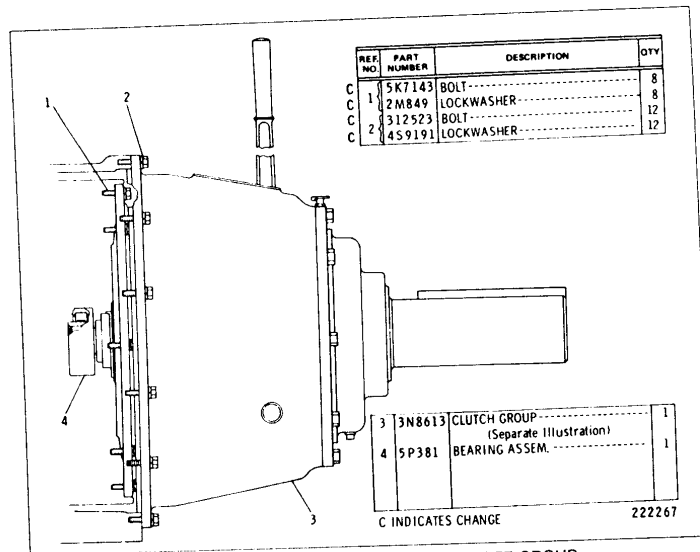


REF NO	PART NUMBER	DESCRIPTION	QTY
1	4N4126	ADAPTER	1
2	2A2814	BOLT	9
3	51585	BOLT	1
4	7K6128	WASHER	1
5	2P4645	DAMPER ASSEM. (Includes)	1
6	5N9709	PLUG	2
7	5P888	BEARING	1
8	4N1501	ADAPTER ASSEM. (Includes)	1
9	4N683	DOWEL	2
10	51594	BOLT	10
11	3N7841	CLUTCH GROUP (Separate Illustration)	1
12	4N1503	SPACER	1
13	6N418	COUPLING	12
14	51588	BOLT	1
15	4N1047	PULLEY	1
16	6N500	SUPPORT ASSEM.	2
17	51583	BOLT	8
18	1B2886	BOLT	8

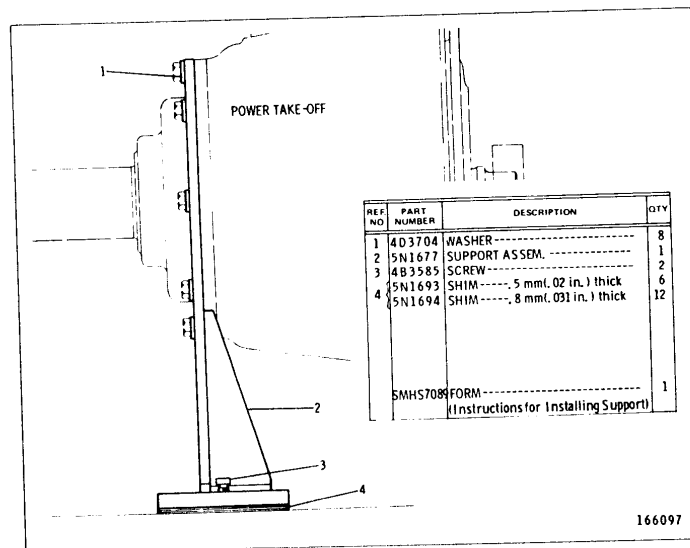
151975



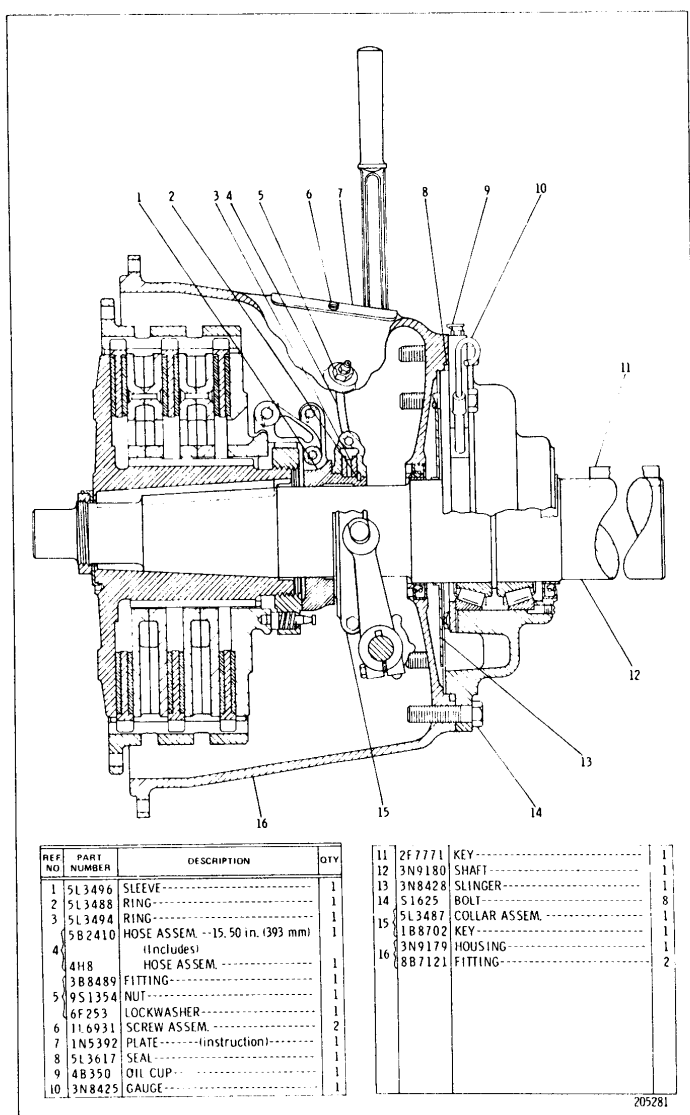
3N7841 CLUTCH GROUP—Power Take-Off
Part of 6N587 Single Clutch Power Take-Off Group shown on Page 198A



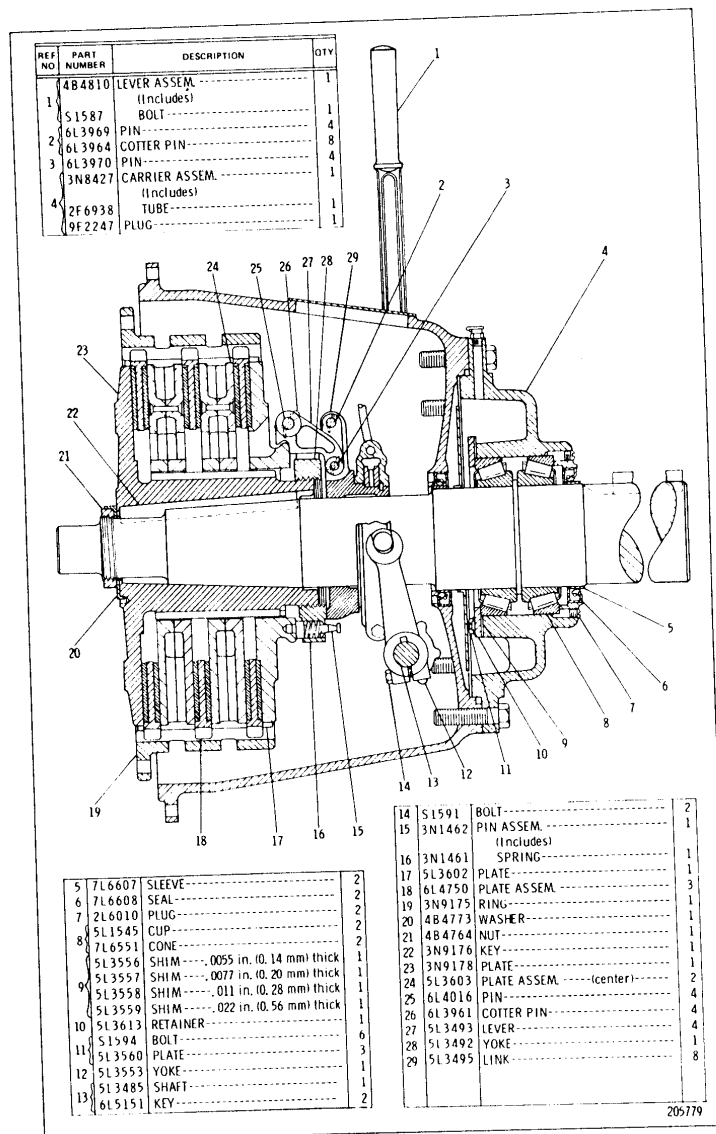
3N8617 REAR CLUTCH POWER TAKE-OFF GROUP
3N8613 Clutch parts are shown on Pages 198D and 198E



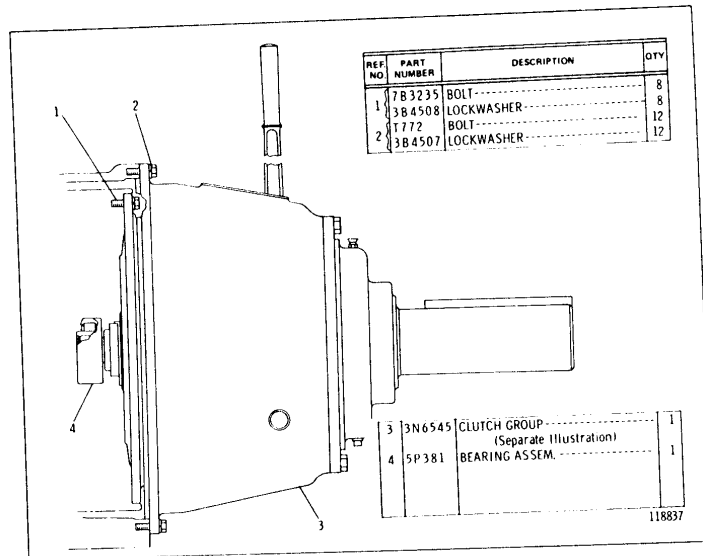
5N1678 POWER TAKE-OFF SUPPORT GROUP—Clutch



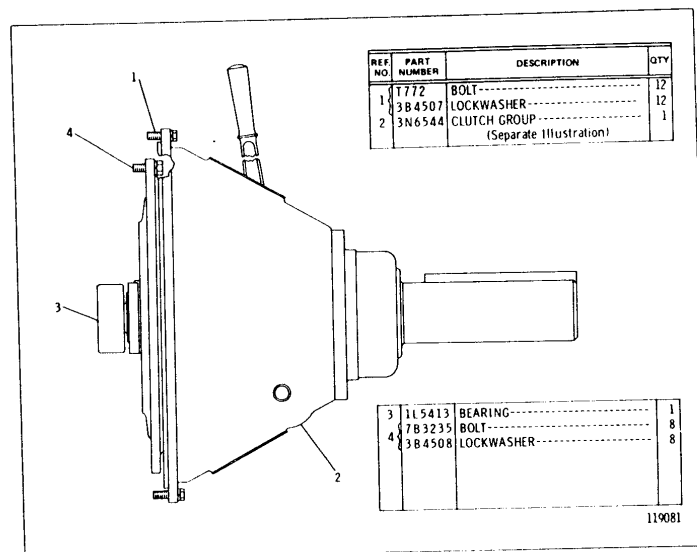
3N8613 CLUTCH GROUP—Part 1
Part of 3N8617 Rear Clutch Power Take-Off Group shown on Page 198C



3N8613 CLUTCH GROUP—Part 2
Part of 3N8617 Rear Clutch Power Take-Off Group shown on Page 198C

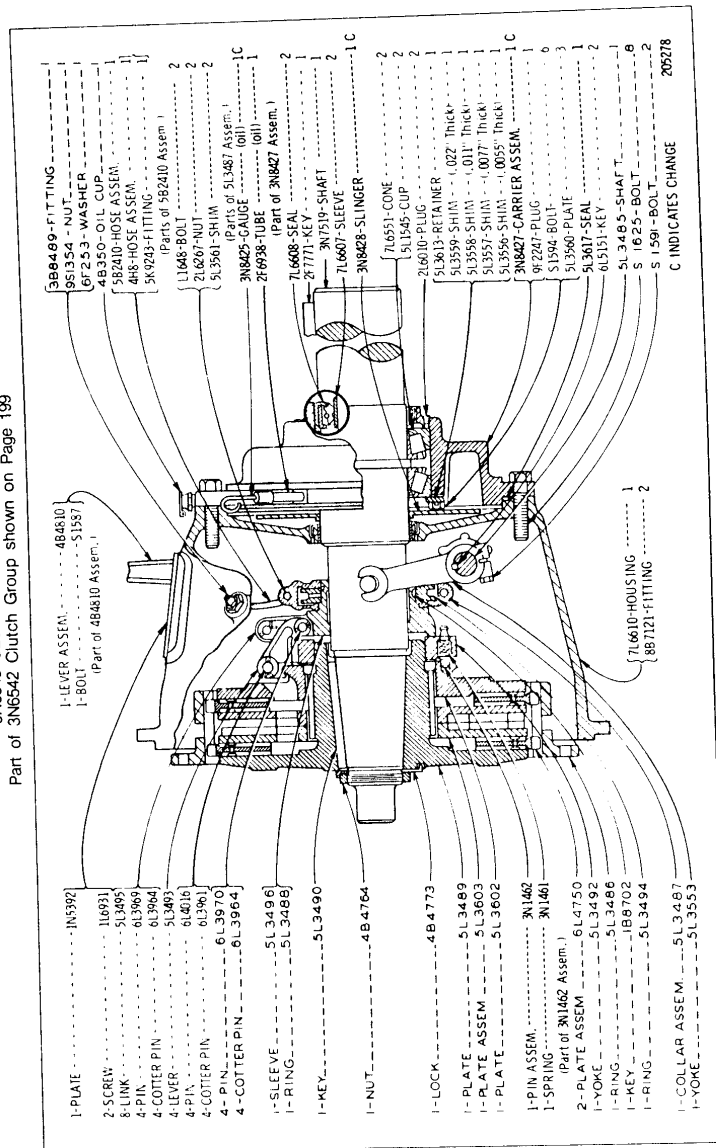


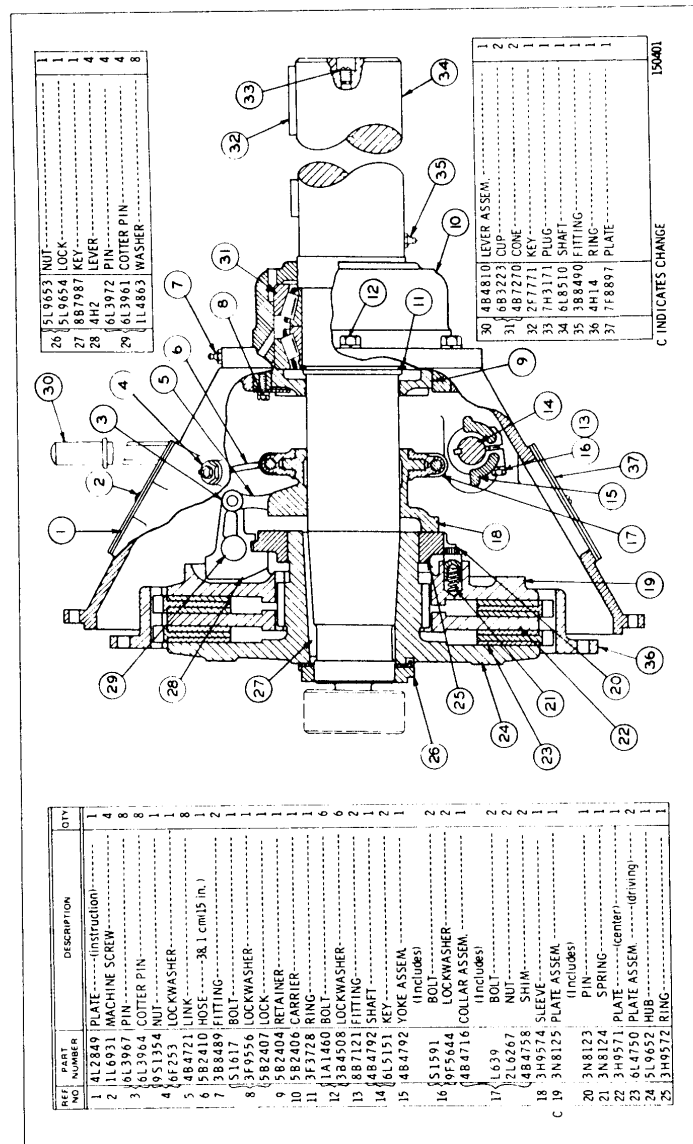
3N6542 CLUTCH GROUP
3N6545 Clutch parts are shown on Page 200



3N6543 CLUTCH GROUP
3N6544 Clutch parts are shown on Page 201
Only separate parts serviced

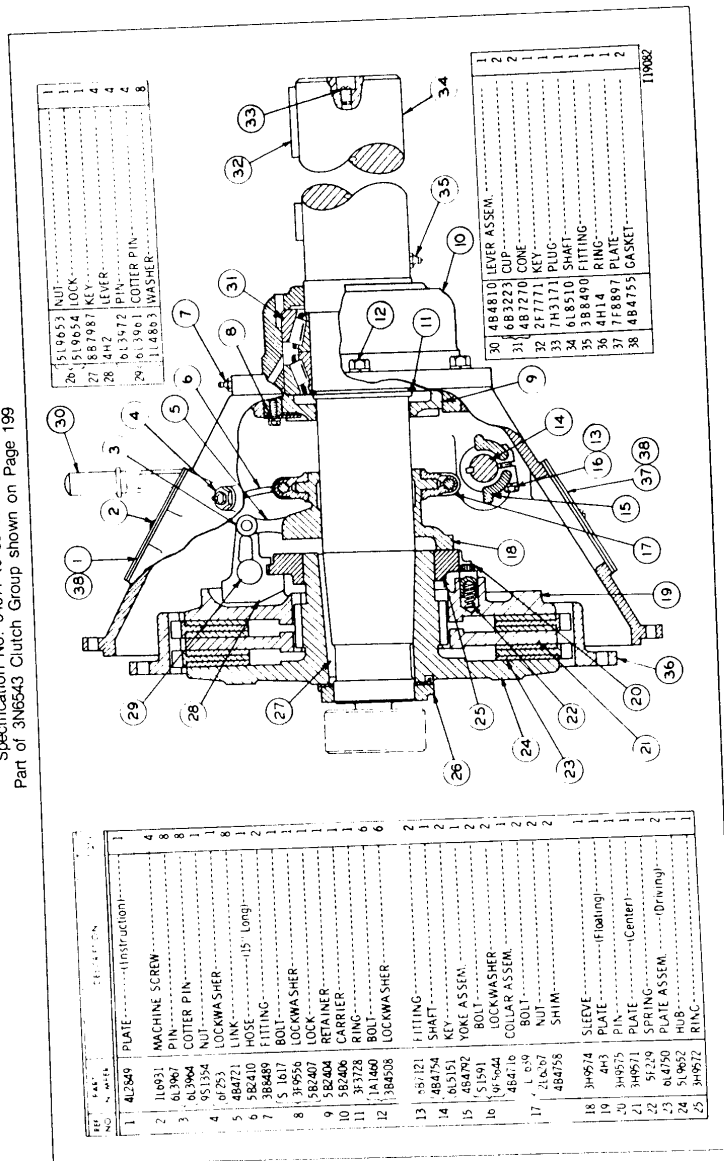
3N6545 CLUTCH GROUP—Type 2
Part of 3N6542 Clutch Group shown on Page 199

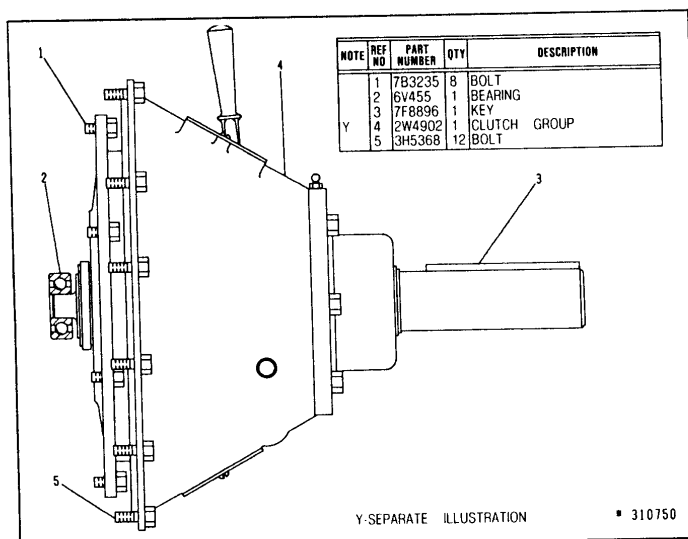




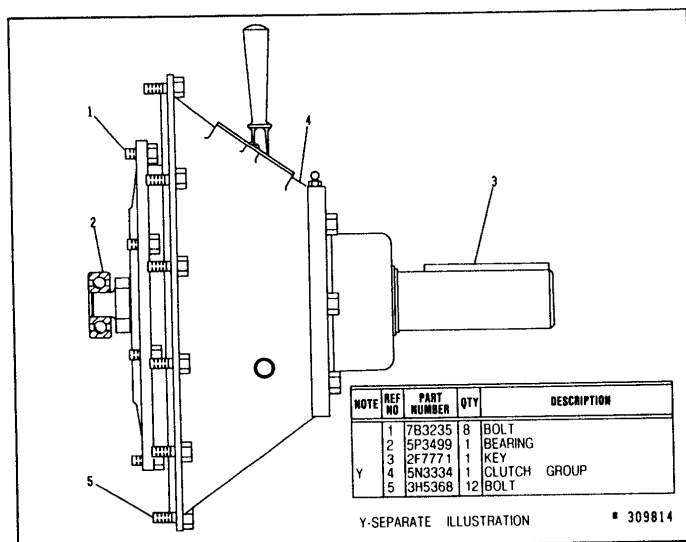
3N8544 CLUTCH GROUP
Specification No. 35169—Up
Part of 3N8543 Clutch Group shown on Page 199

3N6544 CLUTCH GROUP
Specification No. 34611 to 35168 inclusive
Part of 3N6543 Clutch Group shown on Page 199



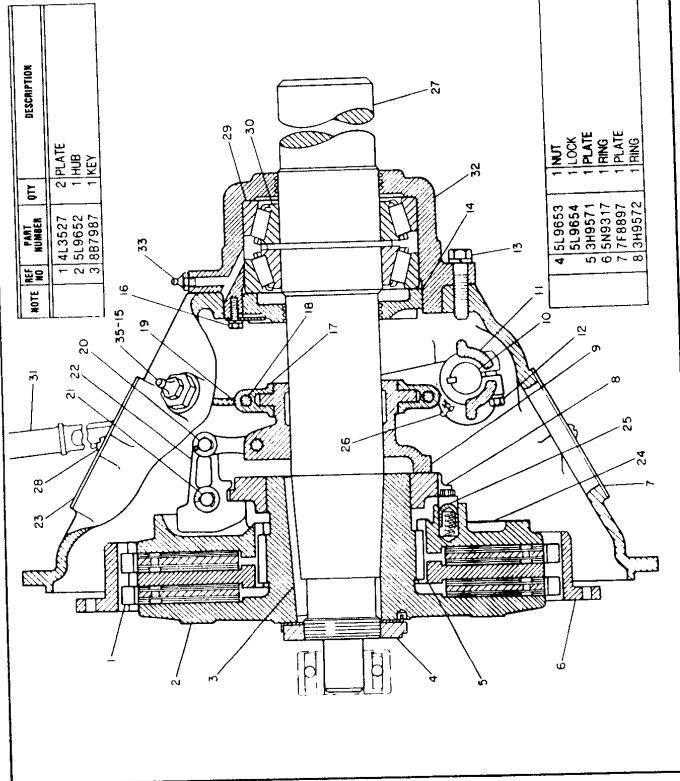


2W4903 REAR POWER TAKE-OFF GROUP—Clutch
2W4902—Page 201.02. FOR USE WITH 6N1299 FLYWHEEL GROUP SHOWN
ON PAGE 34A. AN ATTACHMENT

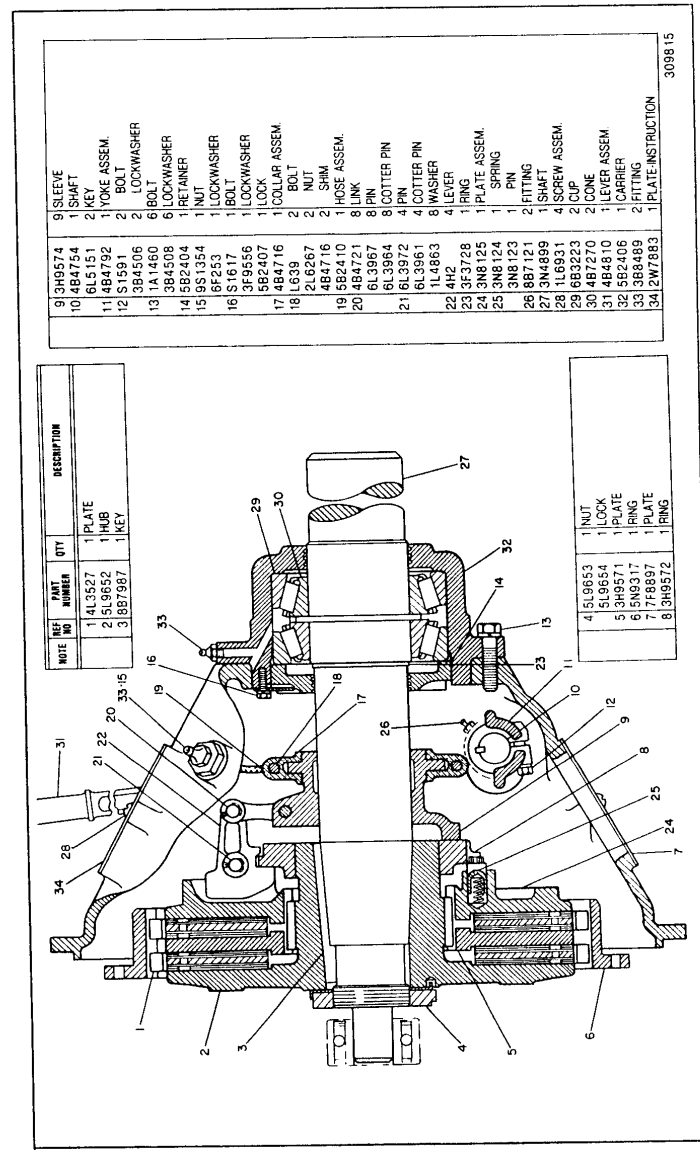


5N3335 REAR POWER TAKE-OFF GROUP
5N3334—Page 201.03. AN ATTACHMENT

2W4902 CLUTCH GROUP
Part of 2W4903 Rear Power Take-Off Group
For Field Replacement Order 3N4128—Page 201.04
AN ATTACHMENT



310751

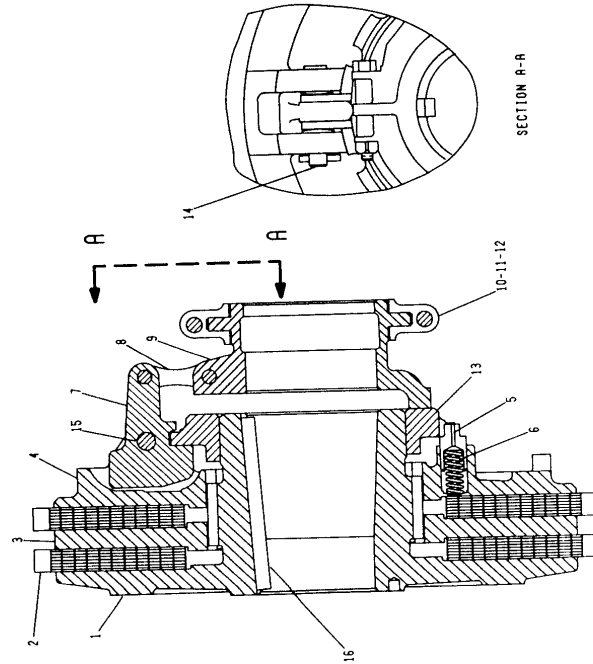


5N3334 CLUTCH GROUP
Part of 5N3335 Rear Power Take-Off Group
For Field Replacement Order 3N4128 — Page 201.04
AN ATTACHMENT

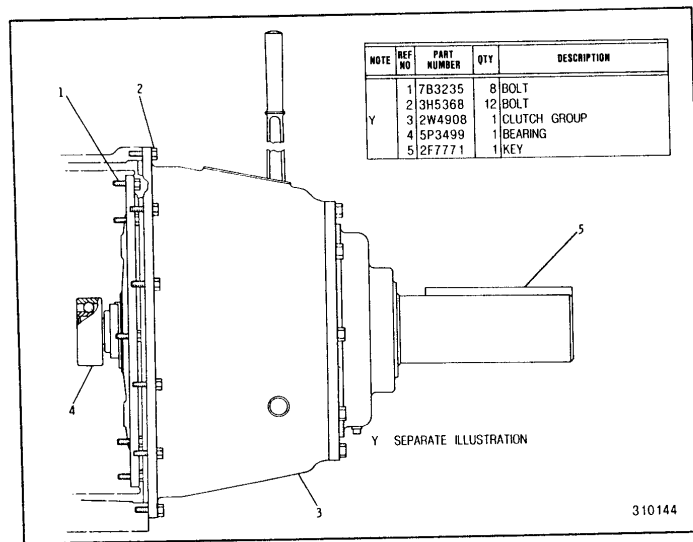
309815

3N4128 CLUTCH ASSEMBLY
Provides Field Replacement for 5N3334 and 2W4902 Clutch Groups

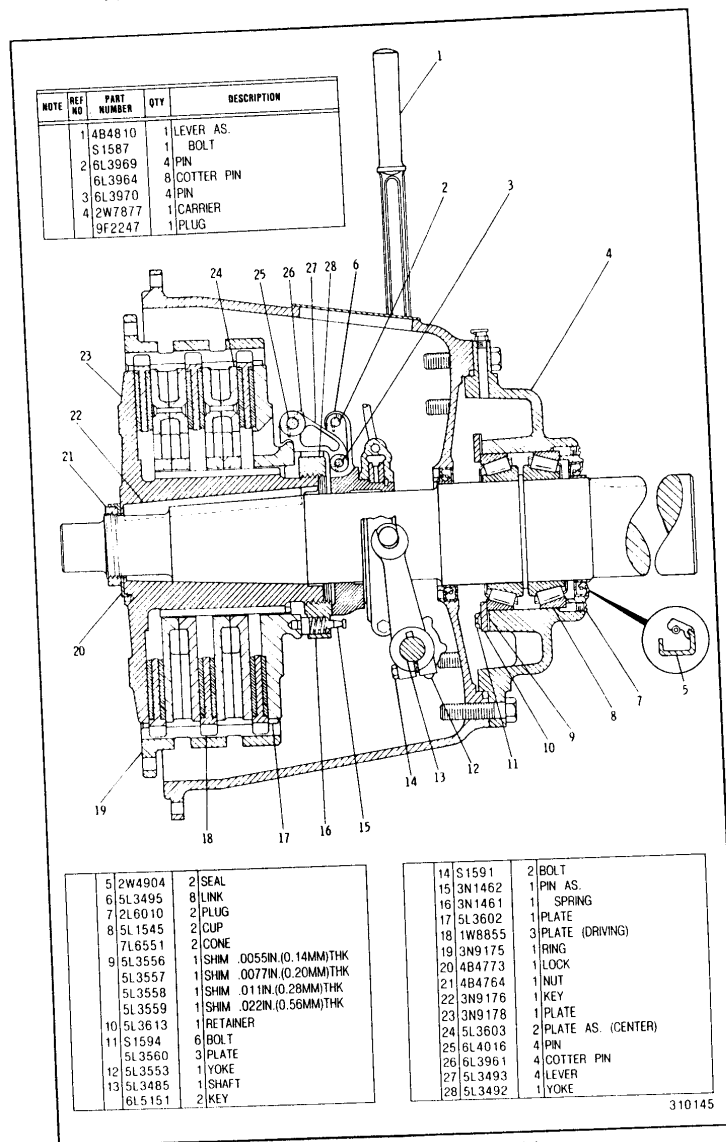
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	5L9652	HUB	1
2	4L3571	PLATE	2
3	3H9571	PLATE ASSEM. (includes)	1
4	3N8125	PIN	1
5	3N8123	SPRING	1
6	3N8124	LEVER	1
7	4R271	LINK	1
8	4R271	LINK	1
9	3H9571	SLEEVE	1
10	4B4716	COLLAR ASSEM. (includes)	1
11	1L639	BOLT	2
12	2L6267	NUT	2
13	4B4758	SHIM	2
14	3H9572	RING	1
15	6L3967	PIN	8
16	6L3964	COTTER	8
17	6L3972	PIN	8
18	6L3961	COTTER	8
19	1K4863	WASHER	1
20	8B7987	KEY	1



302199

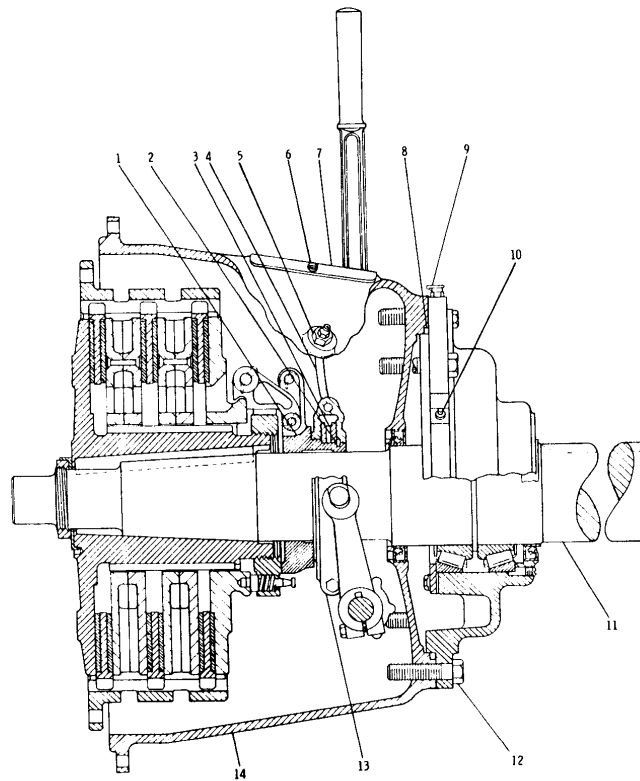


2W4909 REAR CLUTCH POWER TAKE-OFF GROUP
2W4908—Page 201.06. AN ATTACHMENT



310145

2W4908 CLUTCH GROUP—Part 1
Part of 2W4909 Rear Clutch Power Take-Off Group
AN ATTACHMENT



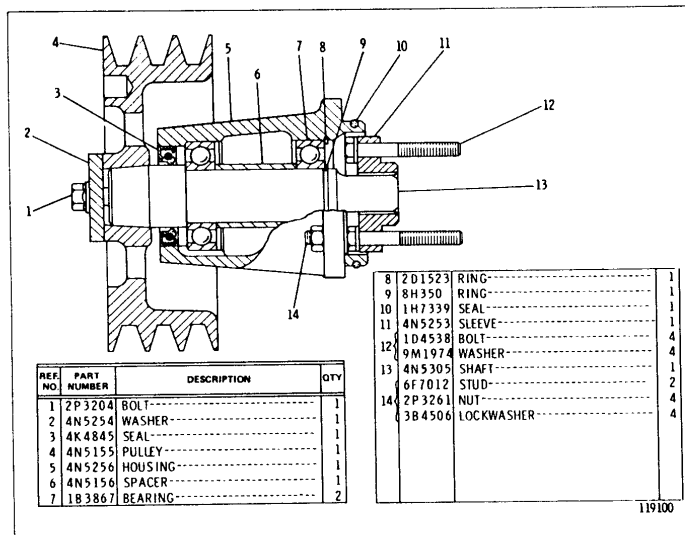
NOTE	REF NO	PART NUMBER	QTY	DESCRIPTION
	1	5L3496	1	SLEEVE
	2	5L3488	1	RING
	3	5L3494	1	RING
	4	5B2410	1	HOSE AS. 15.50IN.(393MM)
	5	4H8	1	HOSE AS.
	6	3B8489	1	FITTING
	7	9S1354	1	NUT
	8	6F253	1	LOCKWASHER

6	1L6931	2	SCREW AS.
7	2W7883	1	PLATE (INSTRUCTION)
8	5L3617	1	SEAL
9	7L2227	1	BREATHER
10	9B2515	1	FITTING
11	3N9180	1	SHAFT
12	S1625	8	BOLT
13	5L3487	1	COLLAR AS.
14	1B8702	1	KEY
	3N9179	1	HOUSING
	8B7121	2	FITTING

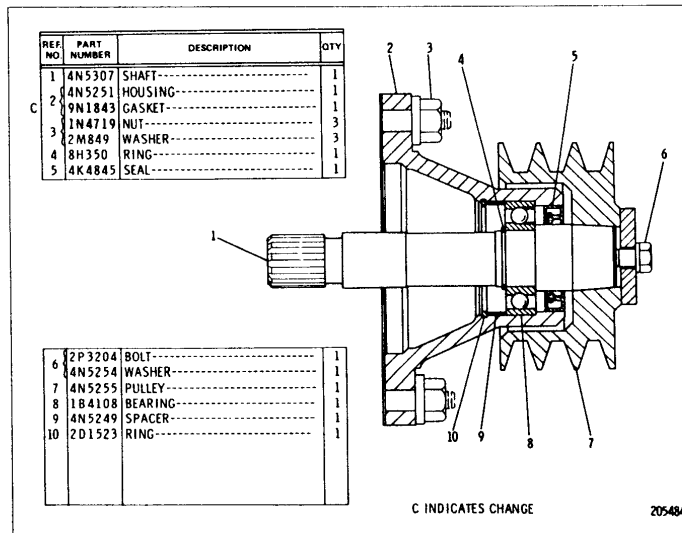
310146

2W4908 CLUTCH GROUP—Part 2
Part of 2W4909 Rear Clutch Power Take-Off Group
AN ATTACHMENT

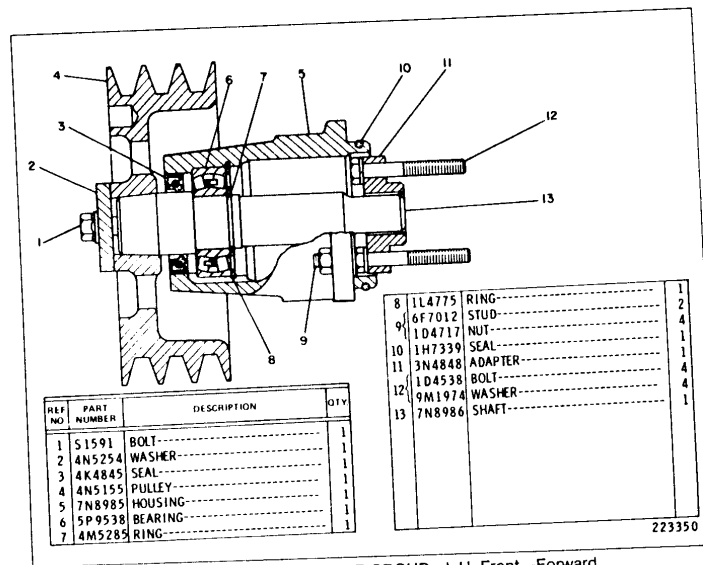
1



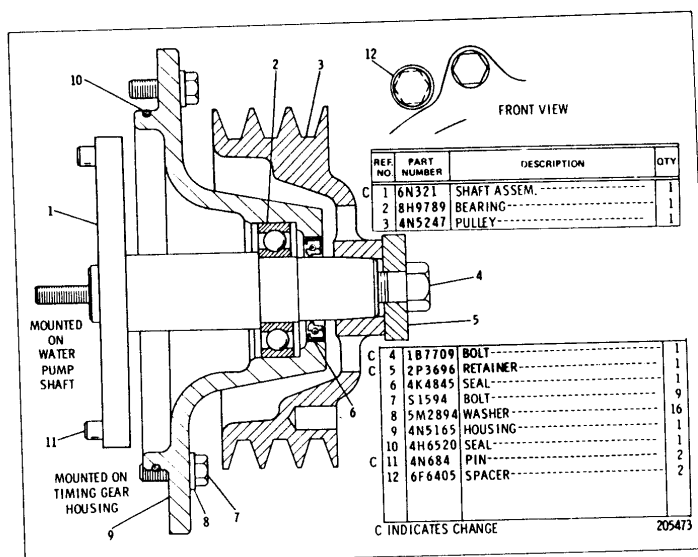
4N5293 AUXILIARY DRIVE GROUP—Foreward
Replaced by 7N8987 shown on Page 202-1



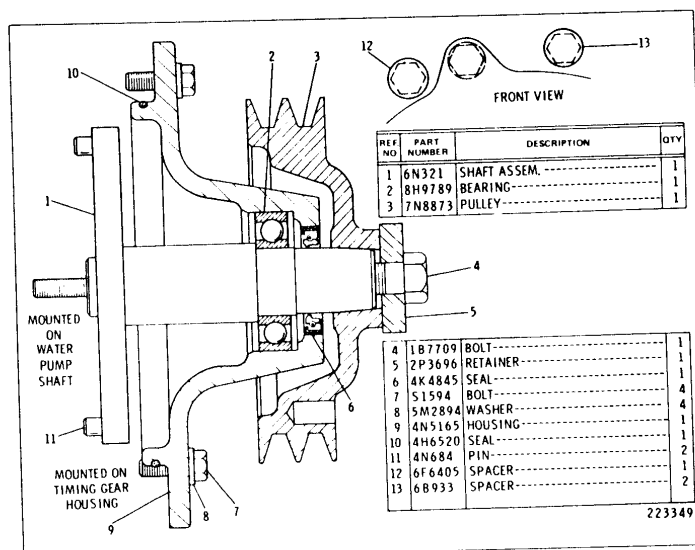
4N5294 AUXILIARY DRIVE GROUP—Rearward



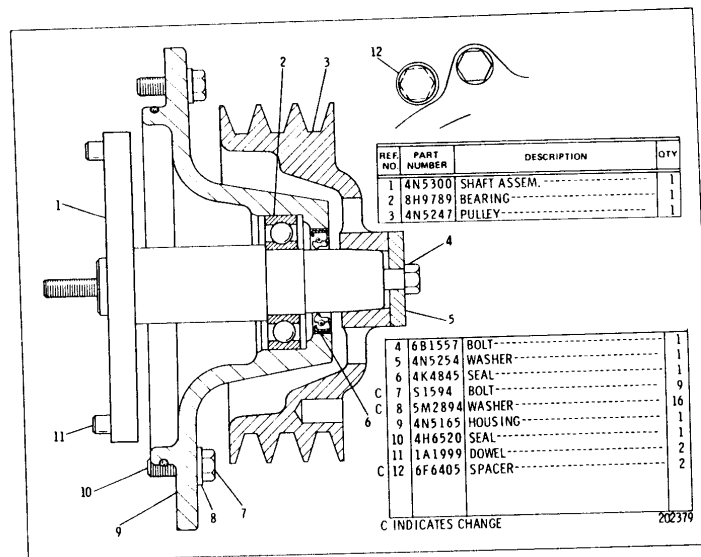
7N8987 AUXILIARY DRIVE GROUP—L.H. Front—Forward



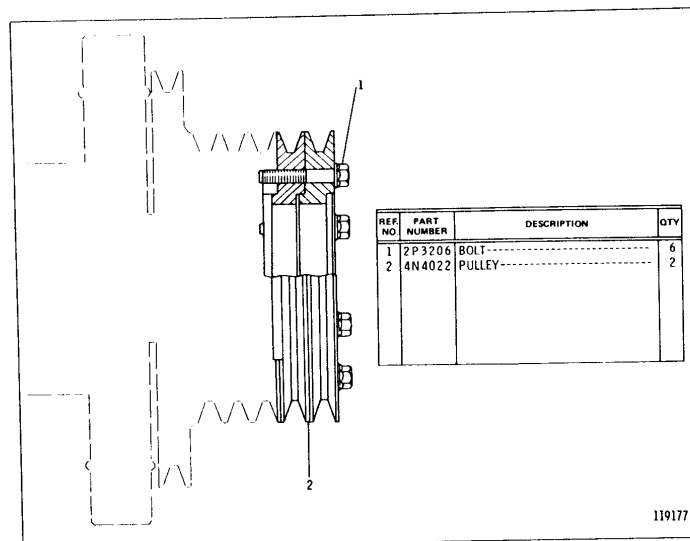
6N322 AUXILIARY DRIVE GROUP—R.H. Front
Serial No. 90U305—Up
Replaced by 7N8877 shown on Page 202A

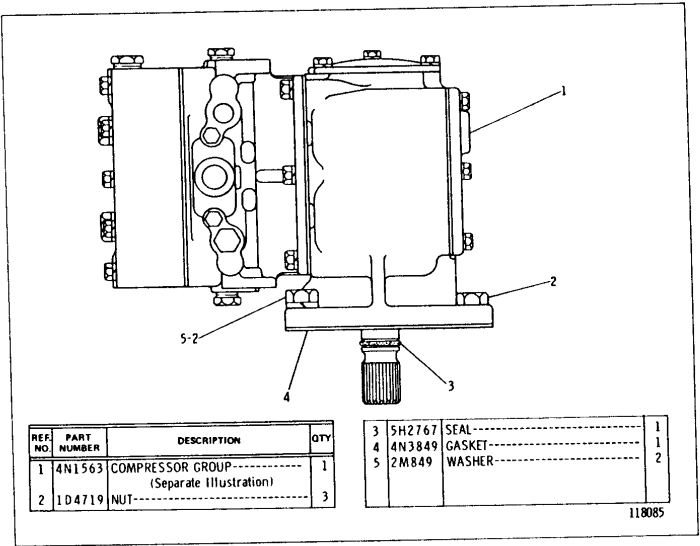


7N8877 AUXILIARY DRIVE GROUP—R.H. Front
Serial No. 90U305—Up

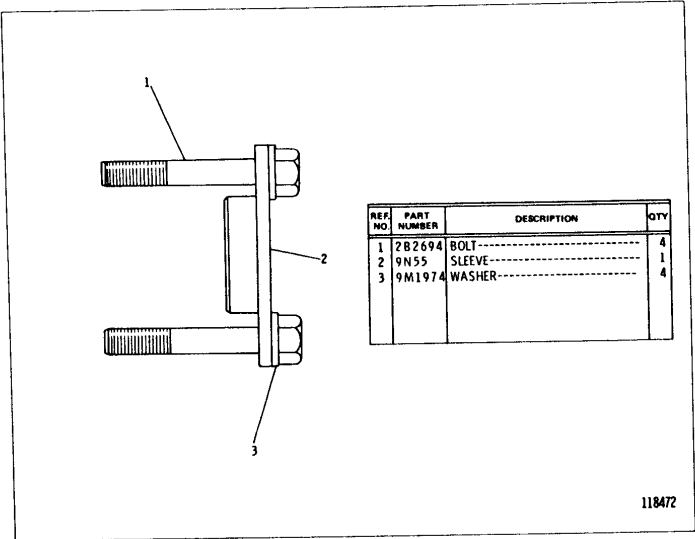


4N5292 AUXILIARY DRIVE GROUP—R.H. Front

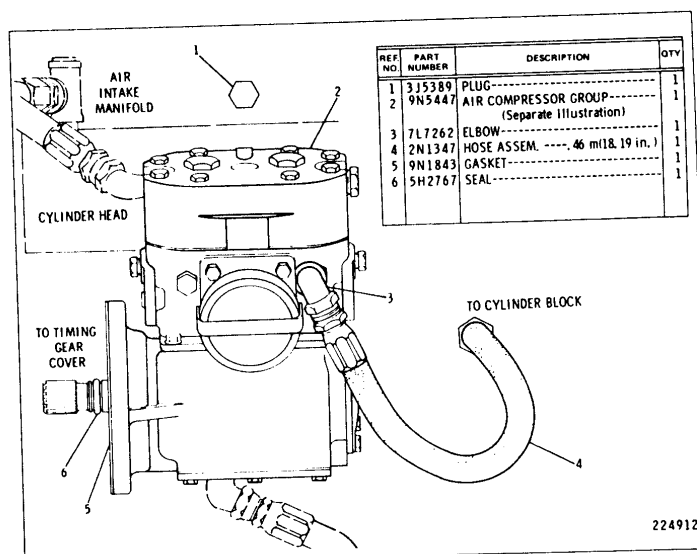
4N6391 AUXILIARY DRIVE PULLEY GROUP
NOT FOR USE WITH FRONT POWER TAKE-OFF



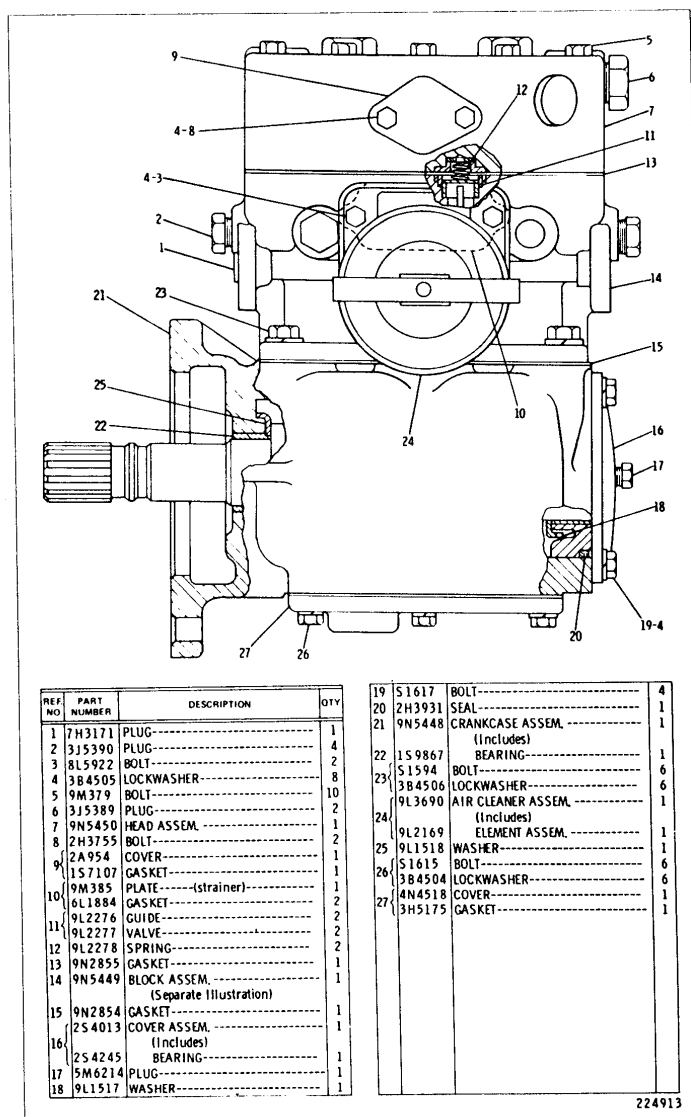
9N65 AIR COMPRESSOR GROUP



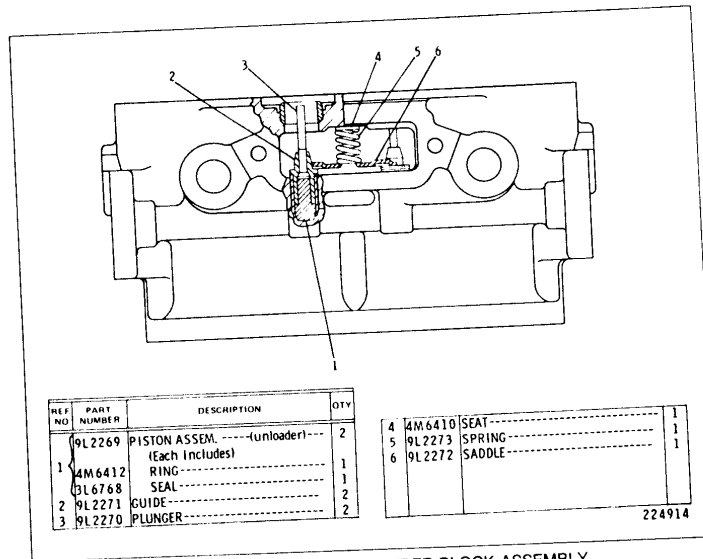
4N5319 HYDRAULIC PUMP DRIVE GROUP



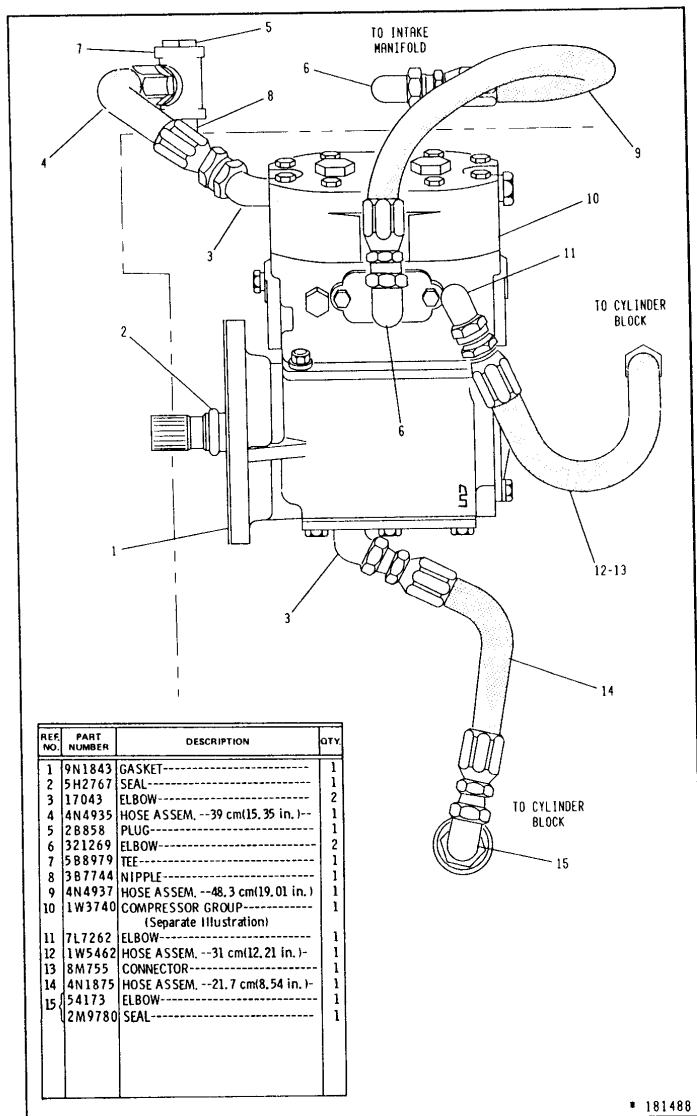
9N5453 AIR COMPRESSOR GROUP
9N5447 Compressor parts are shown on Page 204B
AN ATTACHMENT



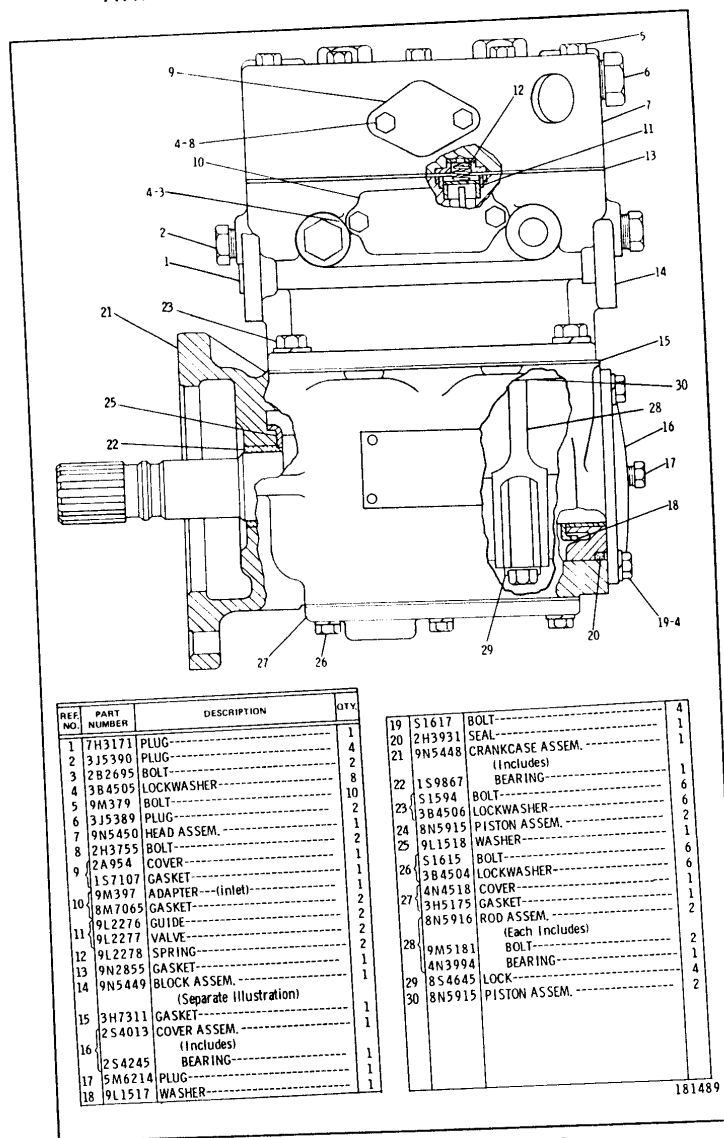
9N5447 AIR COMPRESSOR GROUP
 Part of 9N5453 Air Compressor Group shown on Page 204A
 9N5449 Block parts are shown on Page 204C



9N5449 COMPRESSOR CYLINDER BLOCK ASSEMBLY
Part of 9N5447 Air Compressor Group shown on Page 204B

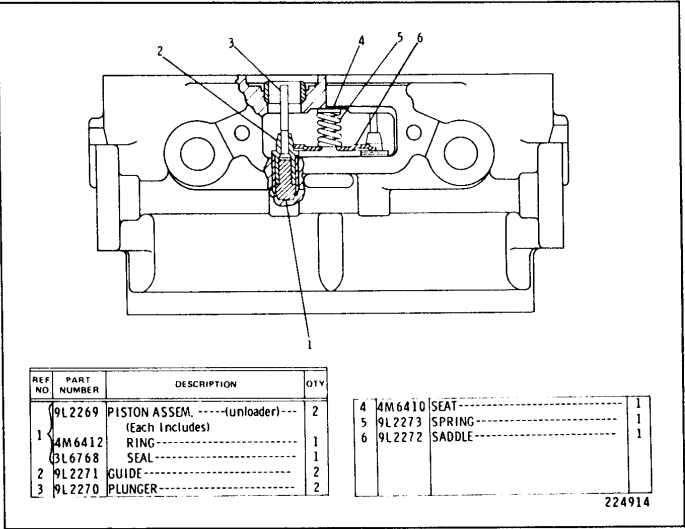


1W7228 AIR COMPRESSOR GROUP
1W3740—Page 204E



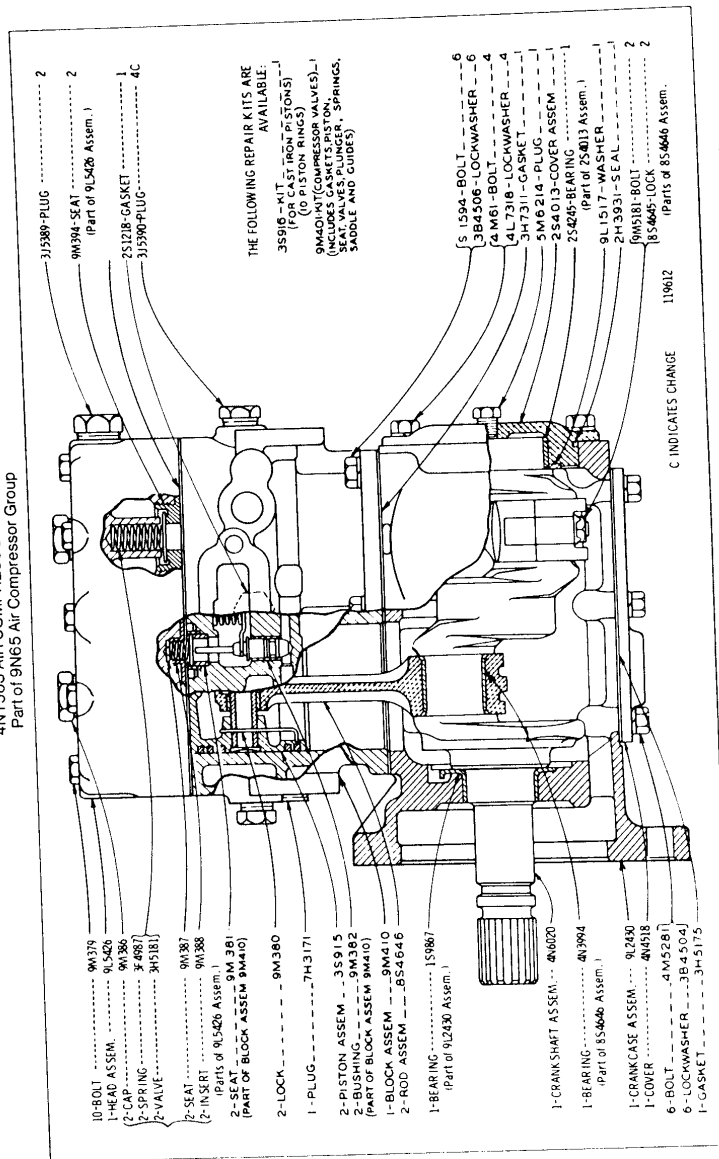
1W3740 AIR COMPRESSOR GROUP
 9N5449—Page 204F
 Part of 1W7228 Air Compressor Group

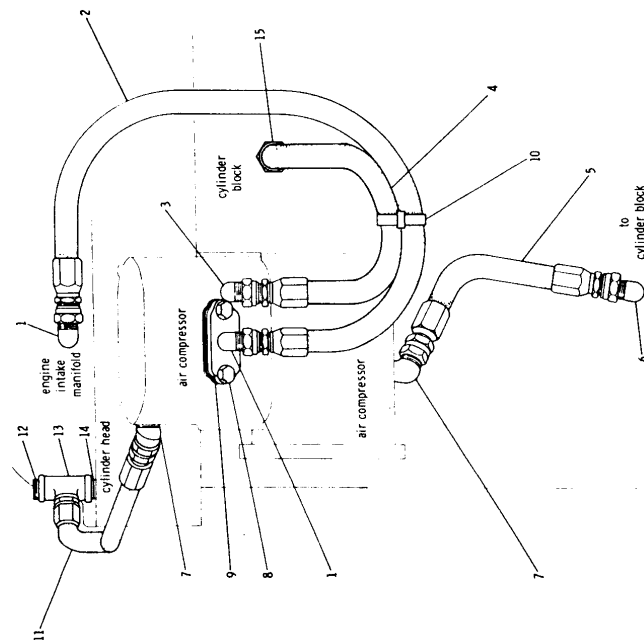
181489



9N5449 COMPRESSOR CYLINDER BLOCK ASSEMBLY
Part of 1W3740 Air Compressor Group

4N1563 AIR COMPRESSOR GROUP
Part of 9N65 Air Compressor Group





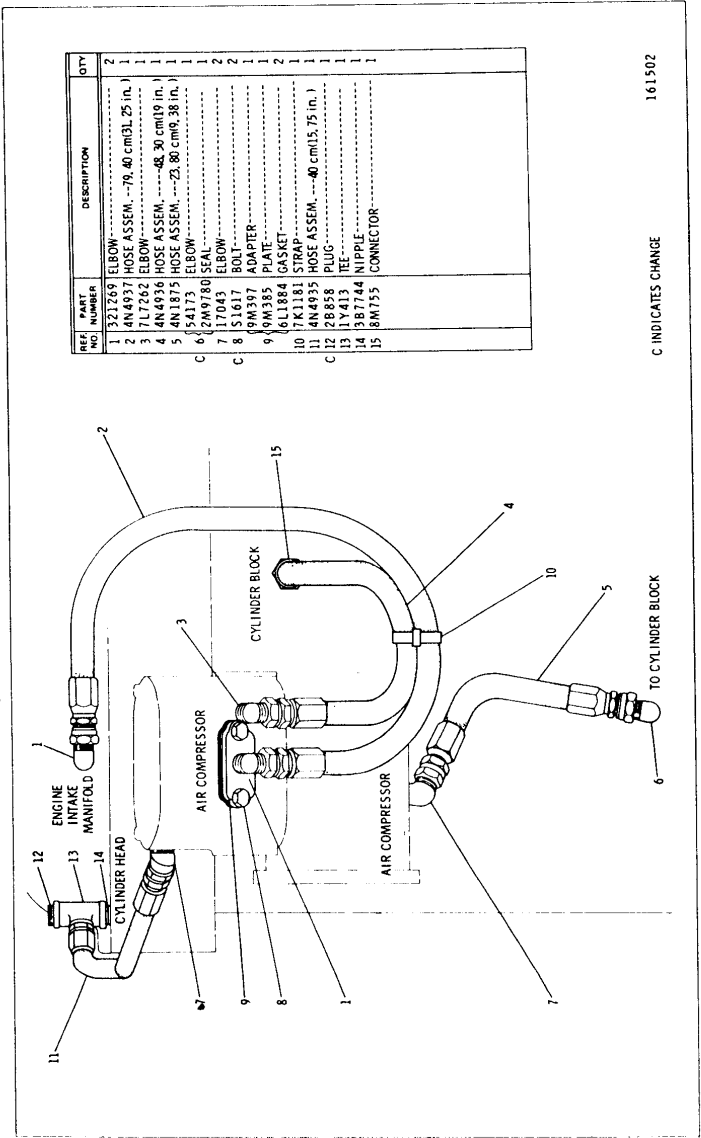
REF NO	PART NUMBER	DESCRIPTION	QTY
1	321269	ELBOW	2
2	4N4937	HOSE ASSEM. --(31, 25 in. long)	1
3	7L7262	ELBOW	1
4	4N4936	HOSE ASSEM. --(19 in. long)	1
5	4N4935	HOSE ASSEM. --(9, 38 in. long)	1
6	2N3278	ELBOW	1
7	17043	ELBOW	2
8	51618	POCKWASHER	1
9	38497	ADAPTER	2
9	9W4385	PLATE	1
10	611884	GASKET	2
10	7K1181	STRAP	1
11	4N4935	HOSE ASSEM. --(15, 75 in. long)	1
12	3L1850	PLUG	1
13	1V413	TEE	1
14	387744	WIPPLE	1
15	8M755	CONNECTOR	1

C INDICATES CHANGE

201813

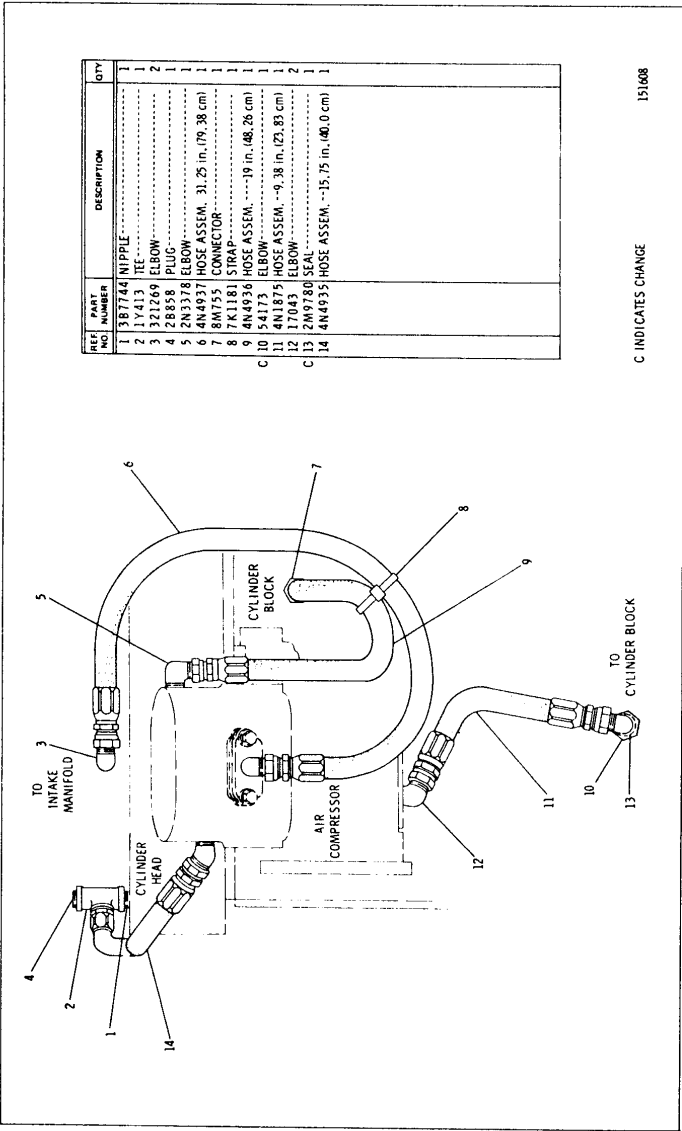
4N2285 AIR COMPRESSOR LINES GROUP—Type 1
Serial No. 90U1 to 90U280 inclusive

4N2285 AIR COMPRESSOR LINES GROUP—Type 2
Serial No. 90U1 to 90U280 inclusive



C INDICATES CHANGE

161502



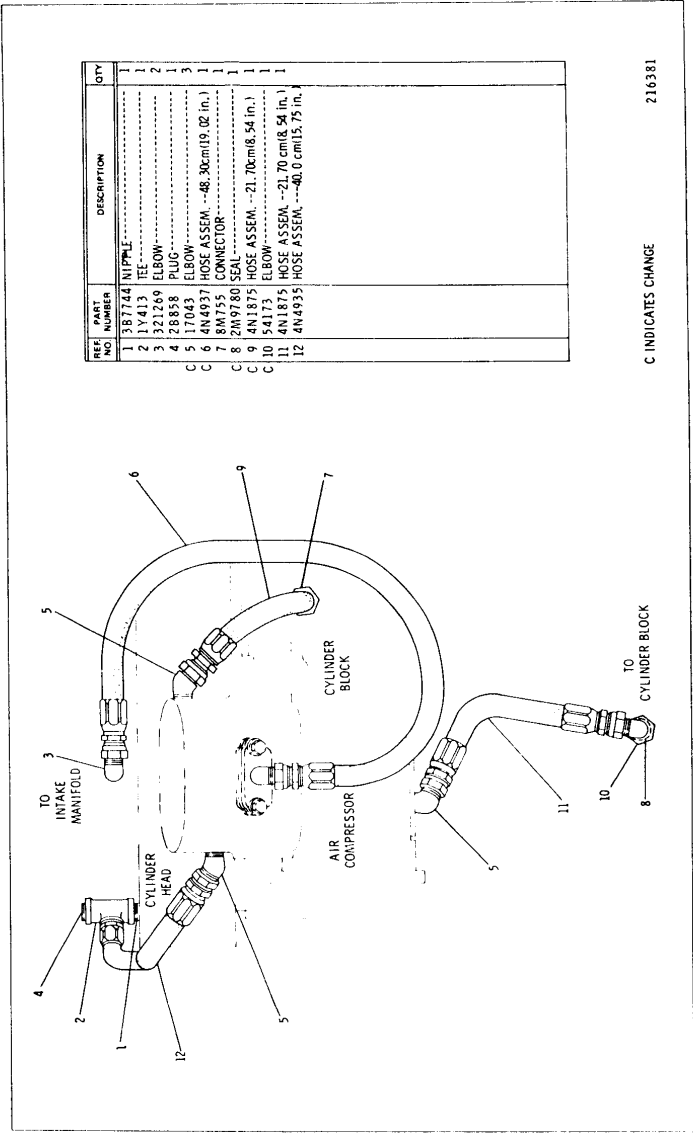
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	3B7744	NIPPLE	1
2	1Y413	TEE	1
3	3Z1269	ELBOW	2
4	2B858	PLUG	1
5	2N3378	ELBOW	1
6	4N4937	HOSE ASSEM. 31.25 in. (79.38 cm)	1
7	8M755	CONNECTOR	1
8	7K1181	STRAP	1
9	4N4936	HOSE ASSEM. 19 in. (48.26 cm)	1
10	54173	ELBOW	1
11	4N1875	HOSE ASSEM. 38 in. (97.83 cm)	1
12	1N4949	ELBOW	2
13	2N4980	HOSE ASSEM. 15.75 in. (40.0 cm)	1
14	4N4935	HOSE ASSEM. 15.75 in. (40.0 cm)	1

C INDICATES CHANGE

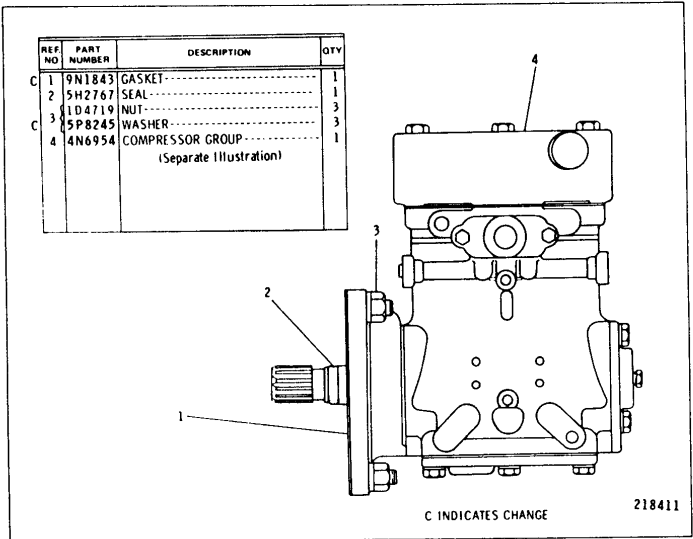
151608

9L6971 AIR COMPRESSOR LINES GROUP—Type 1
Serial No. 90U281—Up

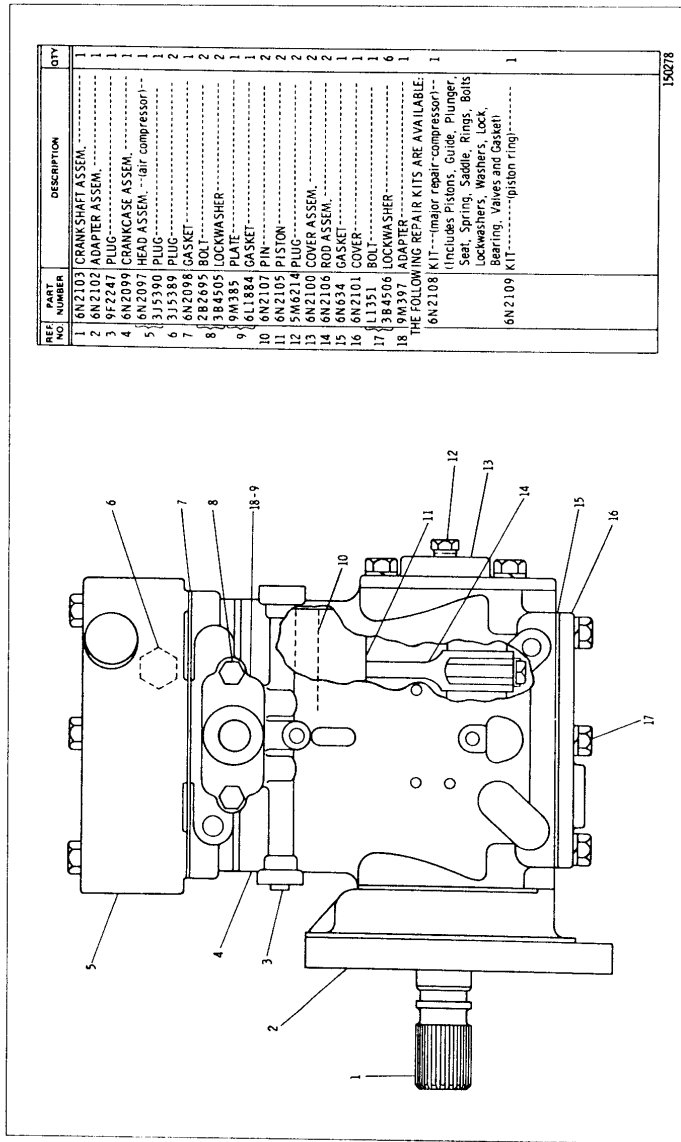
9L6971 AIR COMPRESSOR LINES GROUP—Type 2
Serial No. 90U281—Up



C INDICATES CHANGE 216381

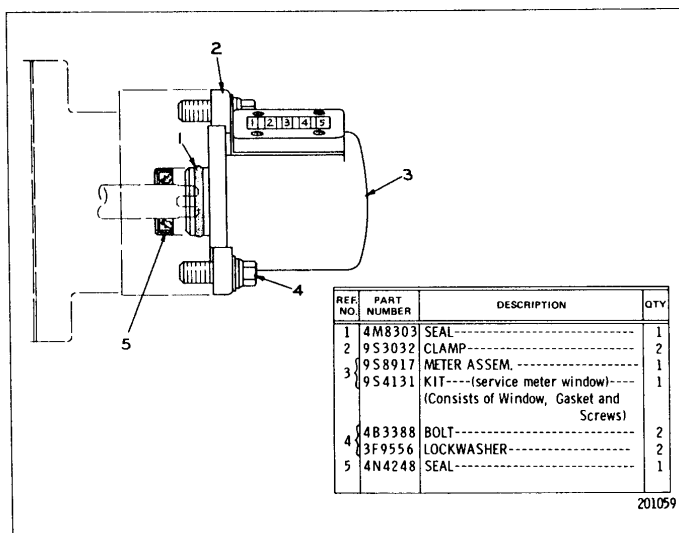


9L6970 AIR COMPRESSOR GROUP
Serial No. 90U281—Up
4N6954 Air Compressor parts are shown on Page 206-4

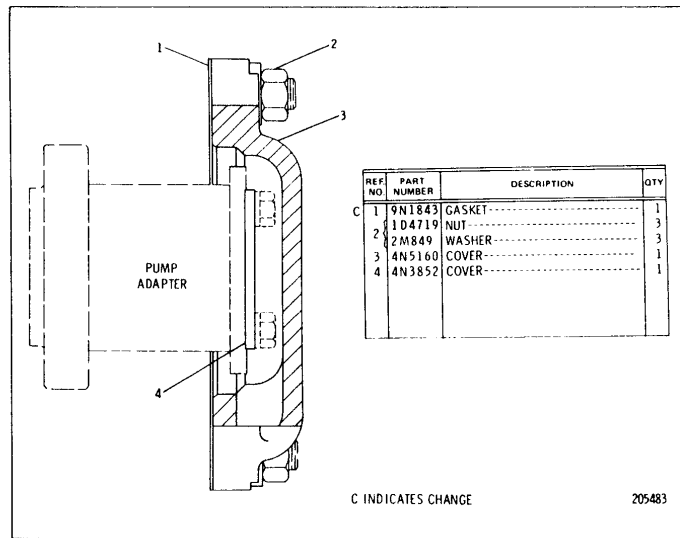


4N6954 AIR COMPRESSOR GROUP
Part of 9L6970 Air Compressor Group shown on Page 206-3

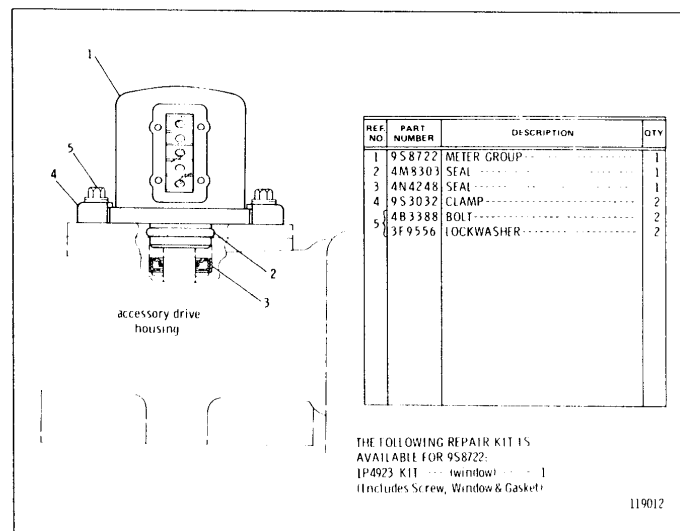
150278



6N1512 SERVICE METER GROUP
Part of 6N459 Engine Procurement Arrangement listed on Page 16B
Only separate parts serviced

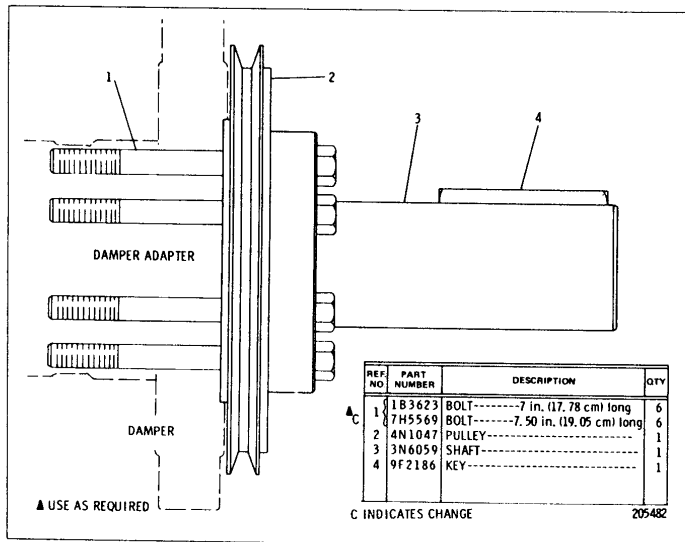


4N5295 ACCESSORY COVERS GROUP

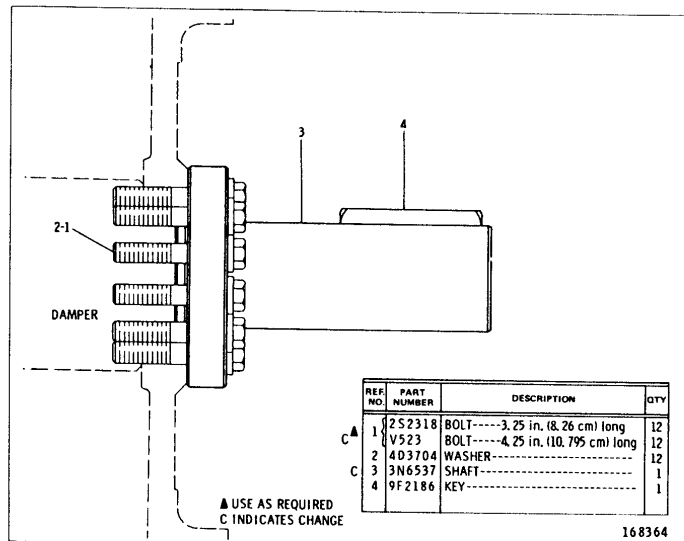


4N1366 SERVICE METER GROUP

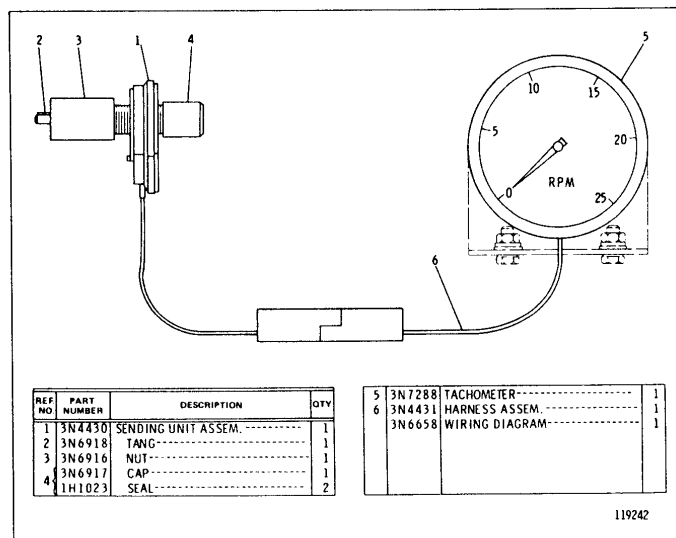
Part of 4N2238 Basic Engine Arrangement listed on Page 15. Note: 9S8917 Service Meter Group is available for 1500 RPM industrial ratings. 1P4923 Service Window Kit consisting of Screws, Window & Gasket is available for use with 9S8917 Meter Group



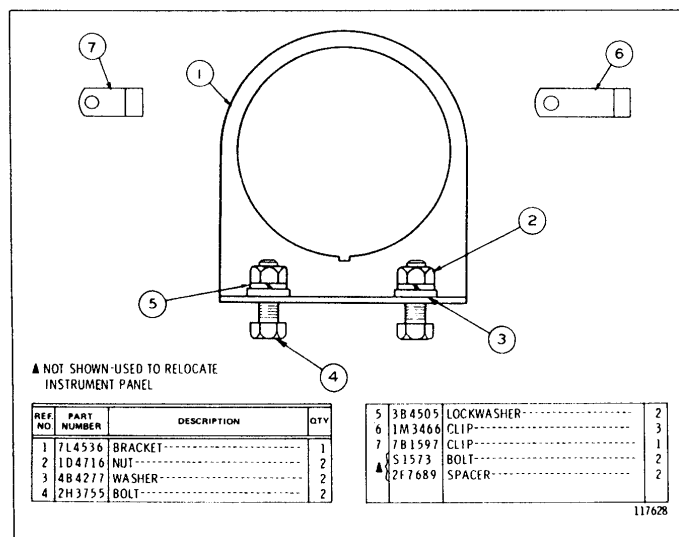
3N6061 STUB SHAFT GROUP—Front
FOR USE WITH MARINE ENGINE GENERATOR SET. CANNOT BE USED WITH
RADIATOR FAN DRIVE, CRANKSHAFT PULLEY AND FRONT POWER TAKE-OFF



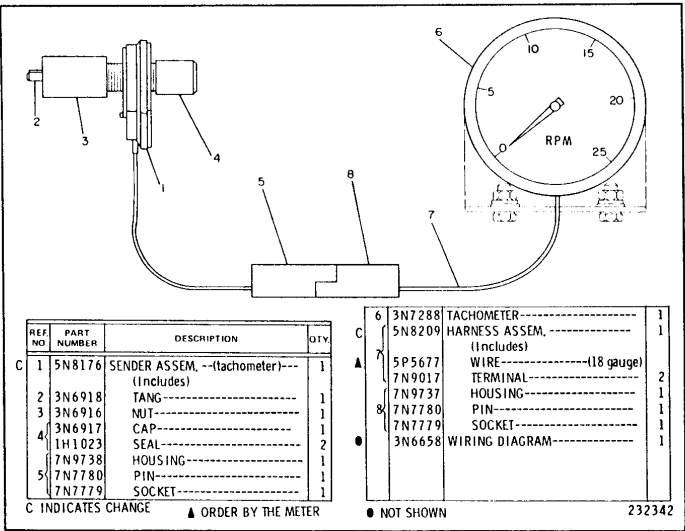
3N6538 STUB SHAFT GROUP—Rear



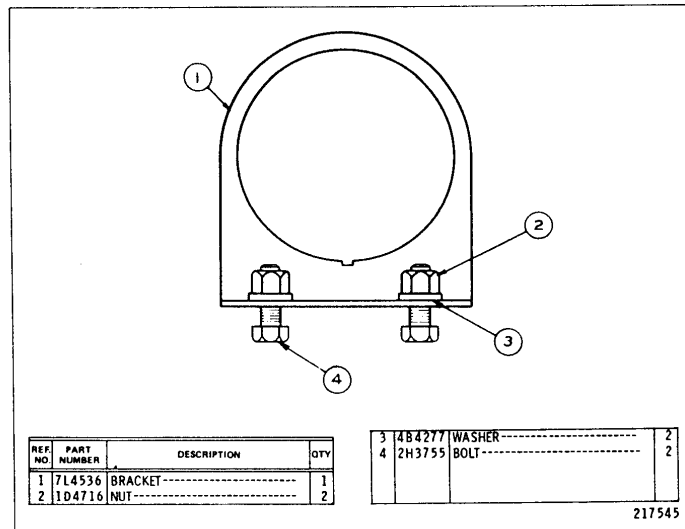
3N6871 ELECTRIC TACHOMETER GROUP—Type 1
Replaced by 5N8750—Page 210A



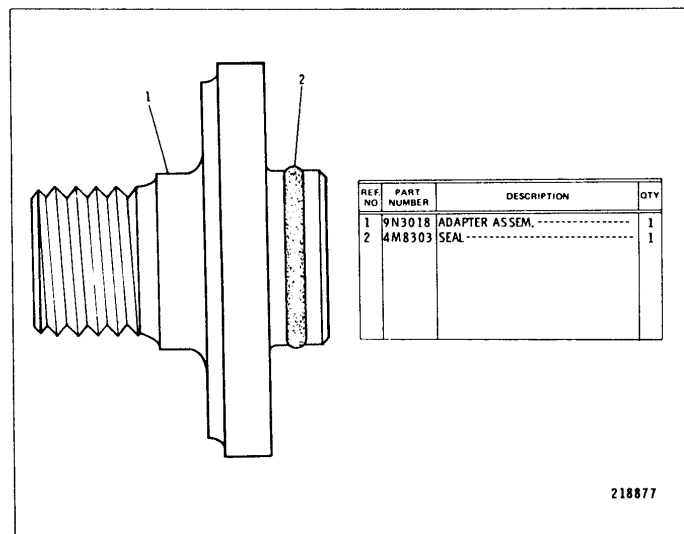
7L4535 TACHOMETER MOUNTING GROUP—Type 1



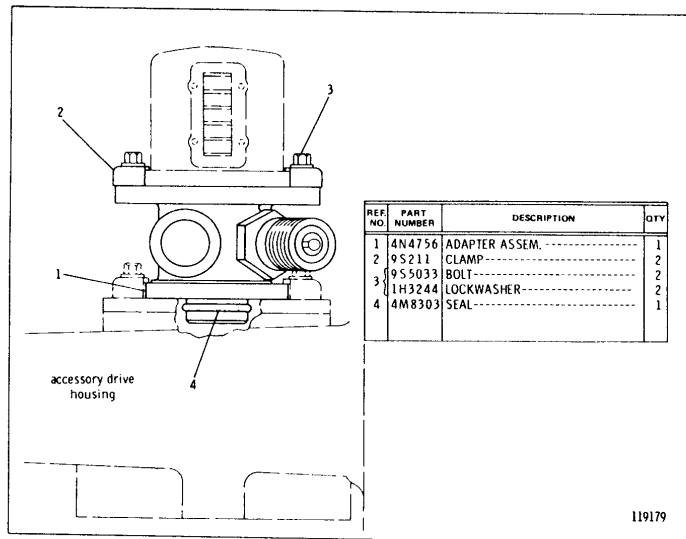
3N6871 ELECTRIC TACHOMETER GROUP—Type 2
Replaced by 5N8750—Page 210A



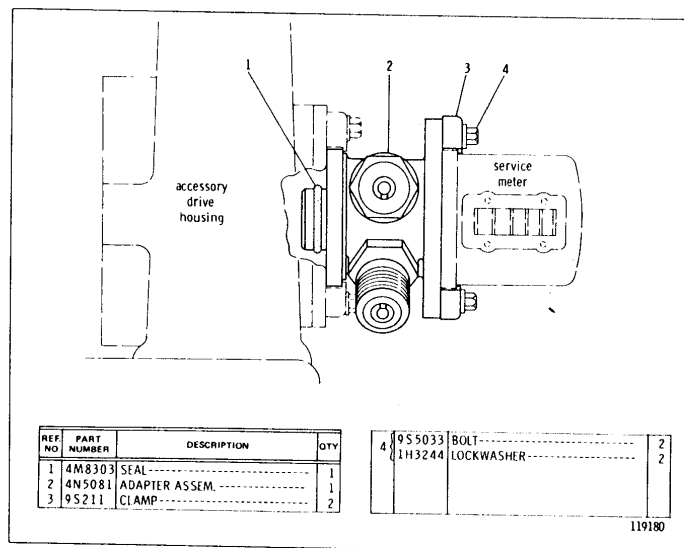
7L4535 TACHOMETER MOUNTING GROUP—Type 2



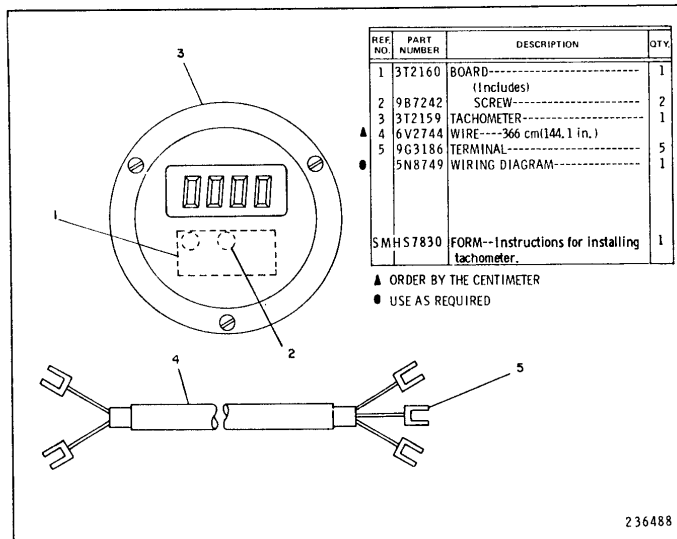
5N3117 TACHOMETER DRIVE GROUP
AN ATTACHMENT



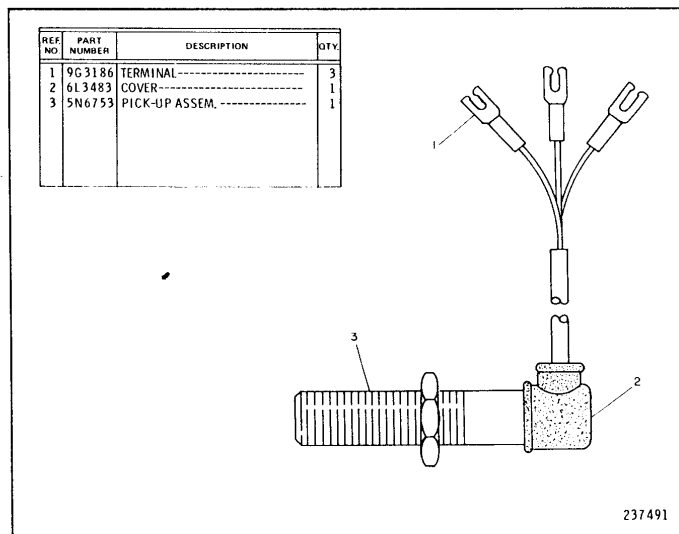
4N1402 TACHOMETER DRIVE GROUP—Single
SEE PREMIUM INSTRUMENT PANEL, MOUNTING & CONNECTIONS SHOWN
ON PAGE 212E



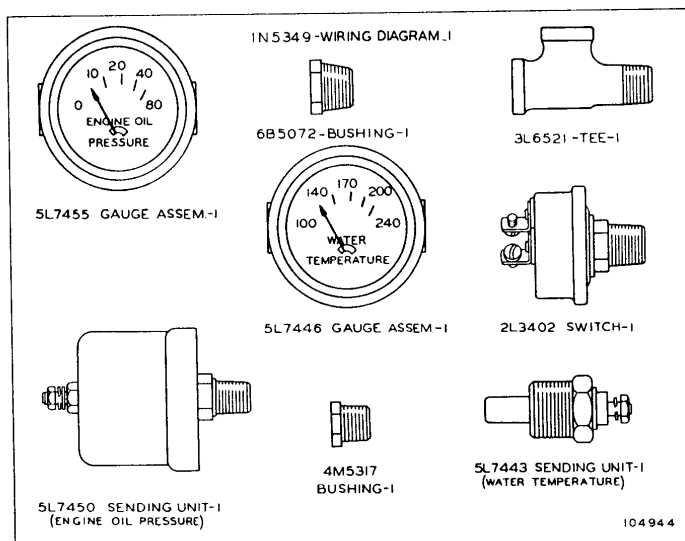
4N5217 TACHOMETER DRIVE GROUP—Dual



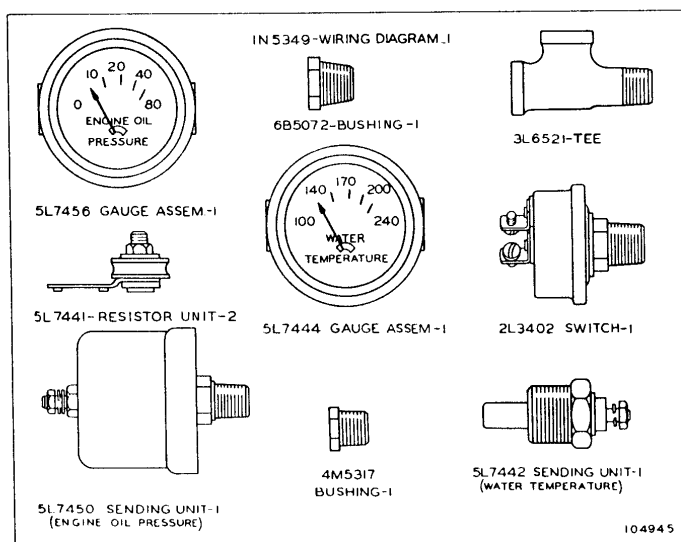
5N8750 ELECTRIC TACHOMETER GROUP
AN ATTACHMENT



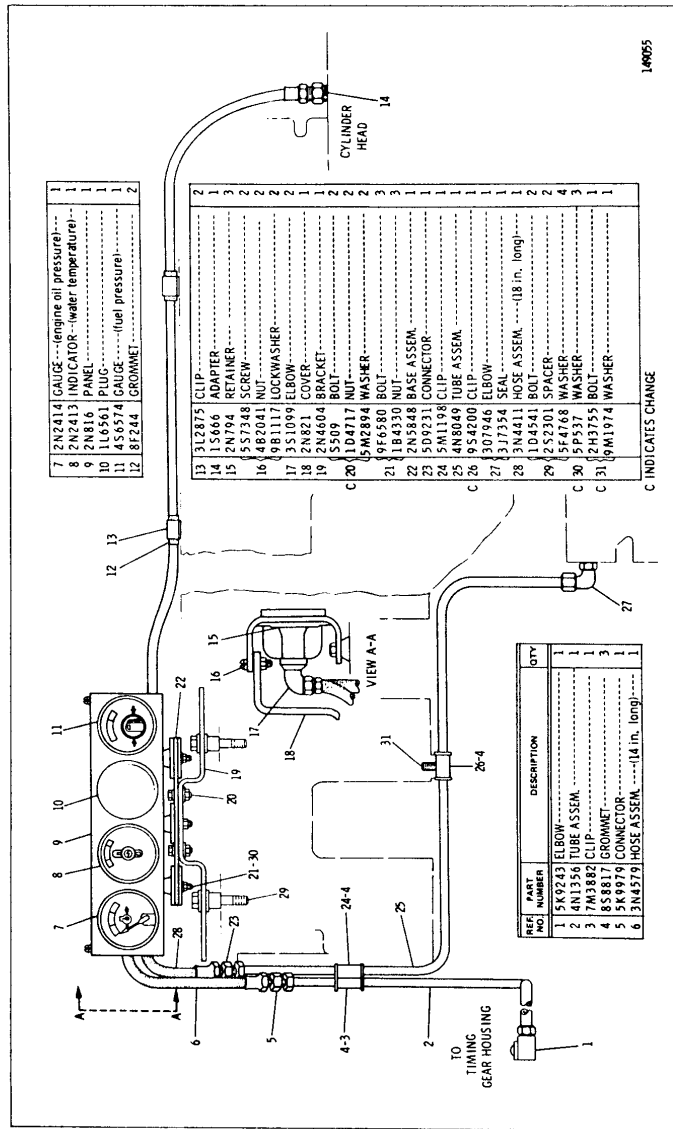
5N8757 MAGNETIC PICKUP GROUP
FOR USE WITH 5N8750 TACHOMETER AND 7L4535 MOUNTING GROUP
WHEN A DUAL SPEED SWITCH OR EG3P GOVERNOR IS NOT INSTALLED



5L9894 INSTRUMENT GROUP—12 Volt—Electrical Instruments

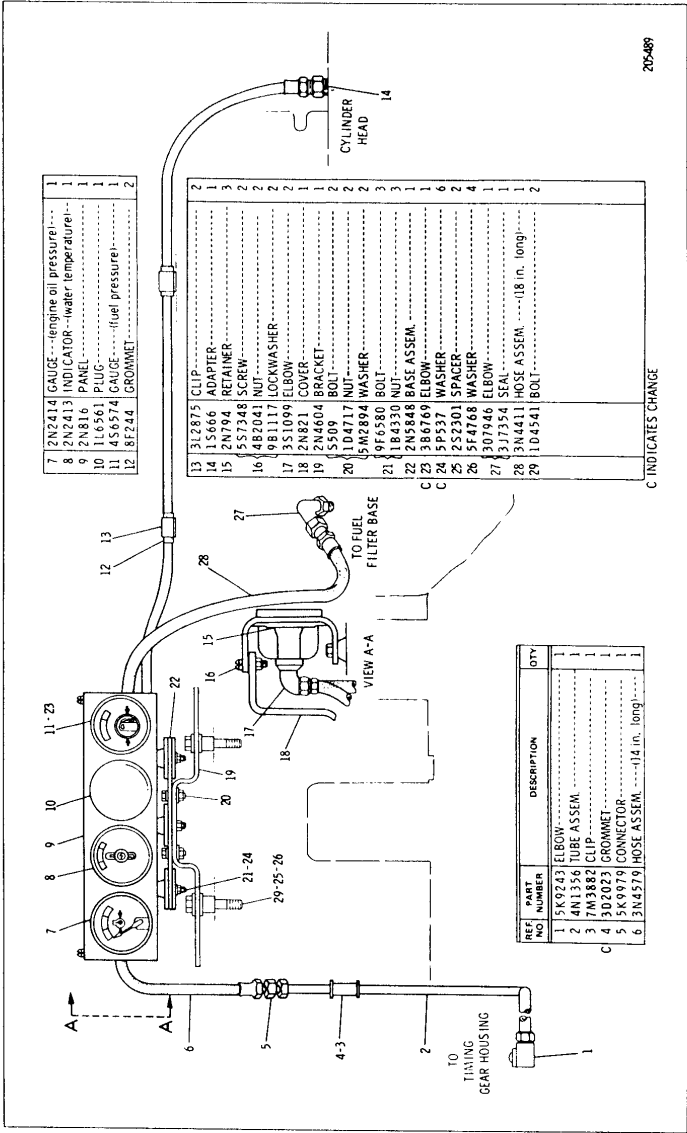


5L9895 INSTRUMENT GROUP—24 or 32 Volt—Electrical Instruments

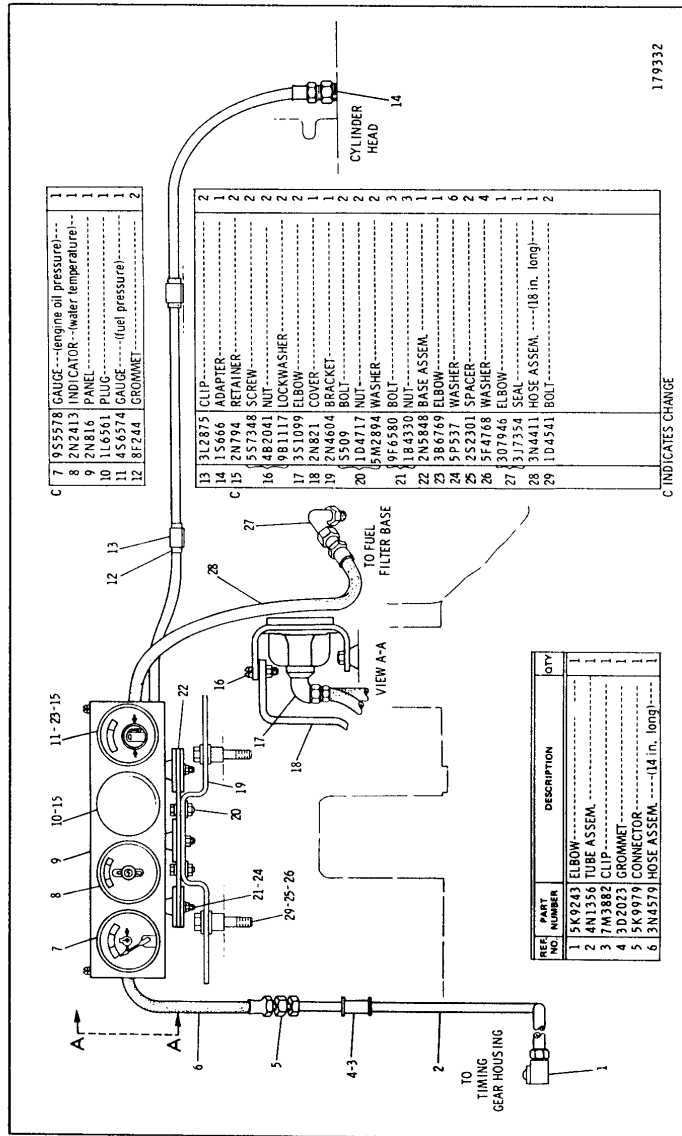


4N6790 INSTRUMENT PANEL GROUP—Type 1
FOR USE WITH PRECHAMBERED TURBOCHARGED AFTERCOOLED ENGINE ONLY

4IN6790 INSTRUMENT PANEL GROUP—Type 2
FOR USE WITH PRECHAMBERED, TURBOCHARGED AFTERCOOLED ENGINE ONLY



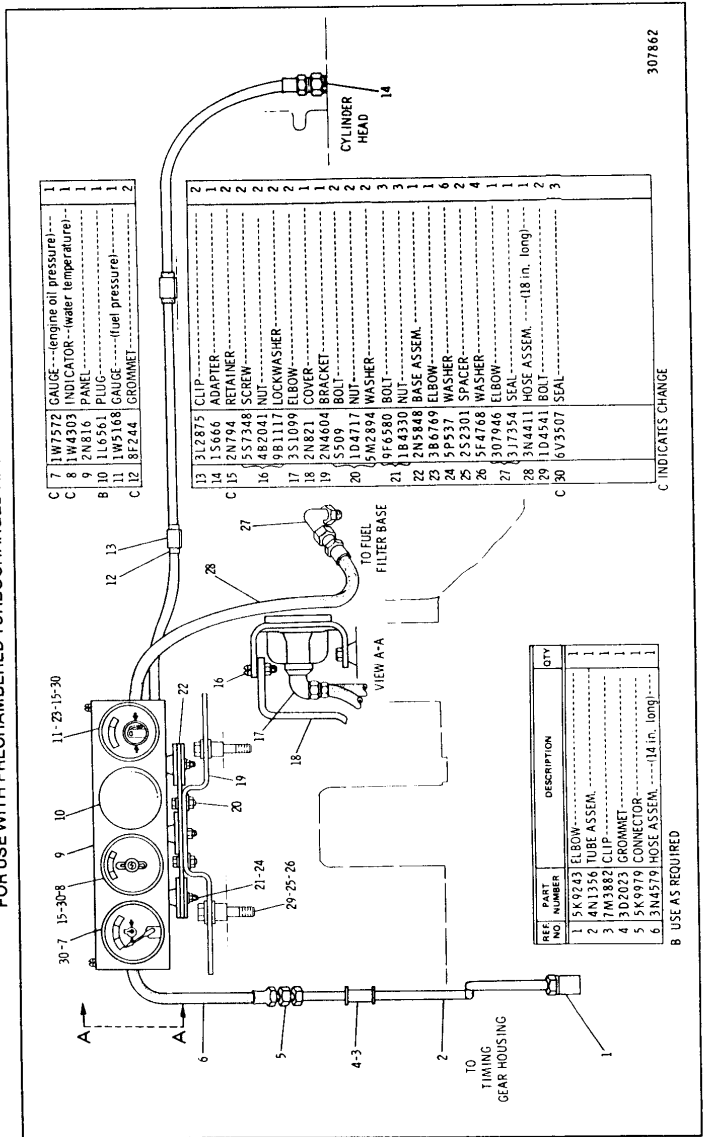
205489



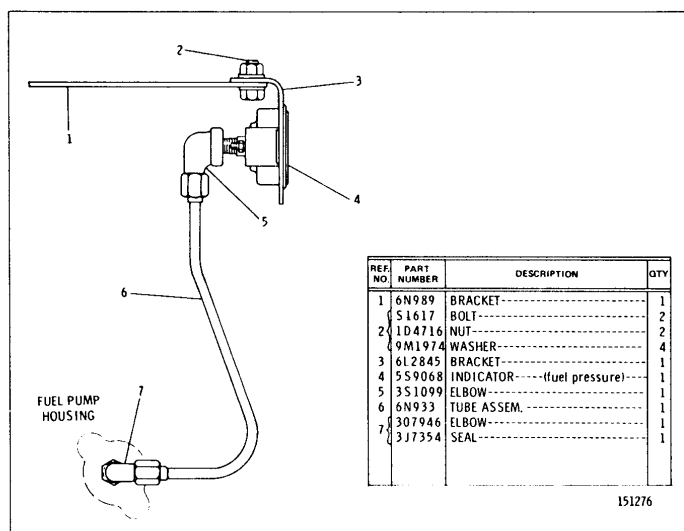
179332

4N6790 INSTRUMENT PANEL GROUP—Type 3
FOR USE WITH PRECHARGED TURBOCHARGED AFTERCOOLED ENGINE ONLY

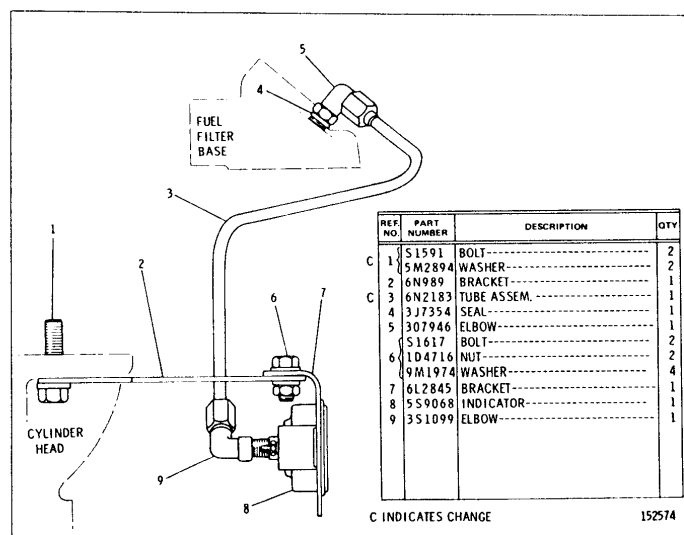
4N6790 INSTRUMENT PANEL GROUP—Type 4
FOR USE WITH PRECHAMBERED TURBOCHARGED AFTERCOOLED ENGINE ONLY



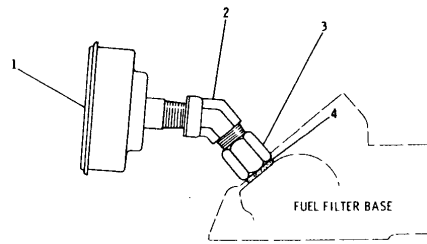
307862



6N984 INSTRUMENT PANEL GROUP (Fuel Pressure)—Type 1
 Replaced by 6N8878 shown on Page 212B-1
 AN ATTACHMENT



6N984 INSTRUMENT PANEL GROUP (Fuel Pressure)—Type 2
 Replaced by 6N8878 shown on Page 212B-1
 AN ATTACHMENT

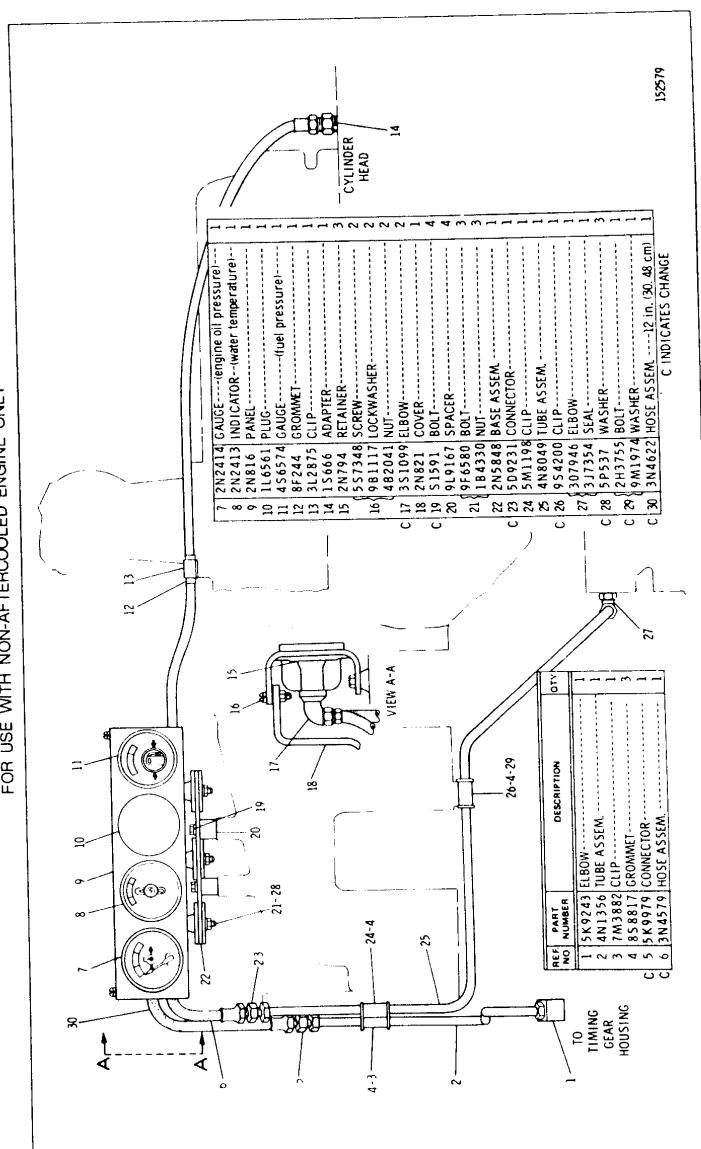


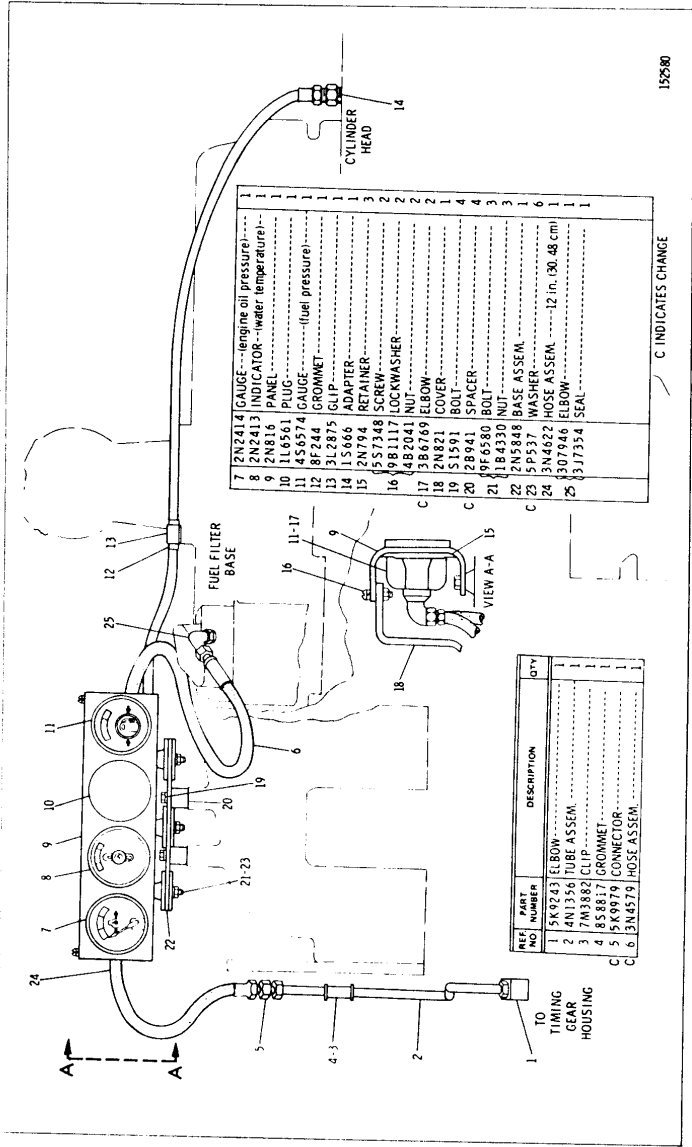
REF NO.	PART NUMBER	DESCRIPTION	QTY
1	5S9068	INDICATOR---(fuel pressure)---	1
2	8L5008	ELBOW-----	1
3	5P5528	ADAPTER-----	1
4	3J7354	SEAL-----	1

159186

6N8878 GAUGE GROUP—Fuel Pressure
AN ATTACHMENT

4N869 INSTRUMENT PANEL GROUP—Type 1
FOR USE WITH NON-AFTERCOOLED ENGINE ONLY



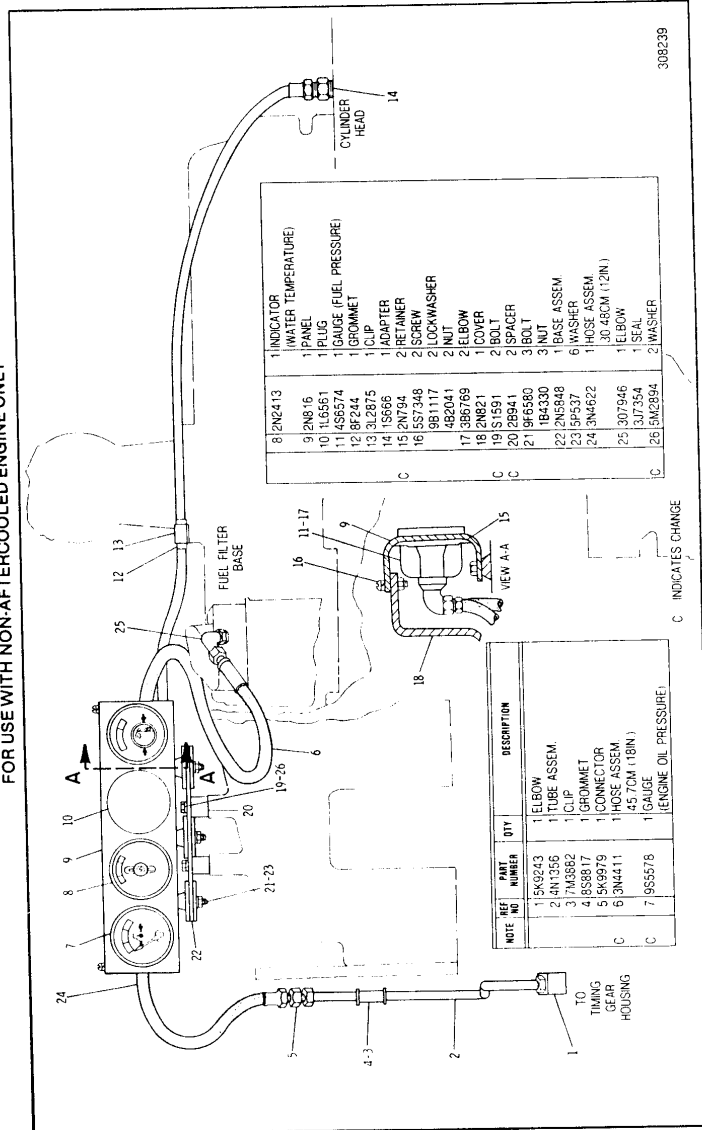


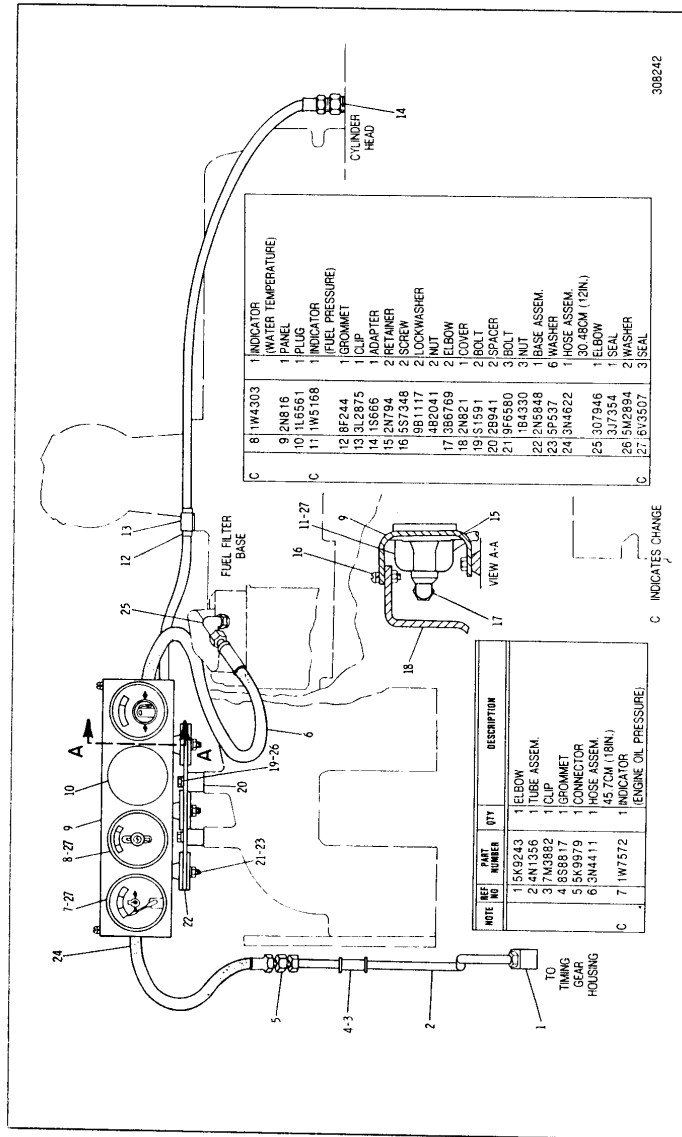
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	5K9243	ELBOW	1
2	4N1356	TUBE ASSEM.	1
3	7M3882	CLIP	1
4	858817	GROMMET	1
5	5K9779	CONNECTOR	1
6	3N4579	HOSE ASSEM.	1
7	2N2414	GAUGE—(engine oil pressure)	1
8	2N2413	INDICATOR—(water temperature)	1
9	2N1815	PANEL	1
10	116561	PLUG	1
11	456574	GROMMET	1
12	8F2844	GROMMET	1
13	312875	CLIP	1
14	15666	ADAPTER	1
15	2N794	RETAINER	1
16	557348	SCREW	3
17	981117	LOCKWASHER	2
18	482041	NUT	2
19	386769	ELBOW	2
20	2N821	COVER	1
21	51591	BOLT	4
22	28941	SPACER	4
23	9F6580	BOLT	3
24	1B4330	NUT	3
25	2N5848	BASE ASSEM.	1
26	5P537	WASHER	6
27	3N4622	HOSE ASSEM.—12 in. (30.48 cm)	1
28	307946	ELBOW	1
29	3J7354	SEAL	1

C INDICATES CHANGE

4N869 INSTRUMENT PANEL GROUP—Type 2
FOR USE WITH NON-AFTERCOOLED ENGINE ONLY

4N869 INSTRUMENT PANEL GROUP—Type 3
FOR USE WITH NON-AFTERCOOLED ENGINE ONLY



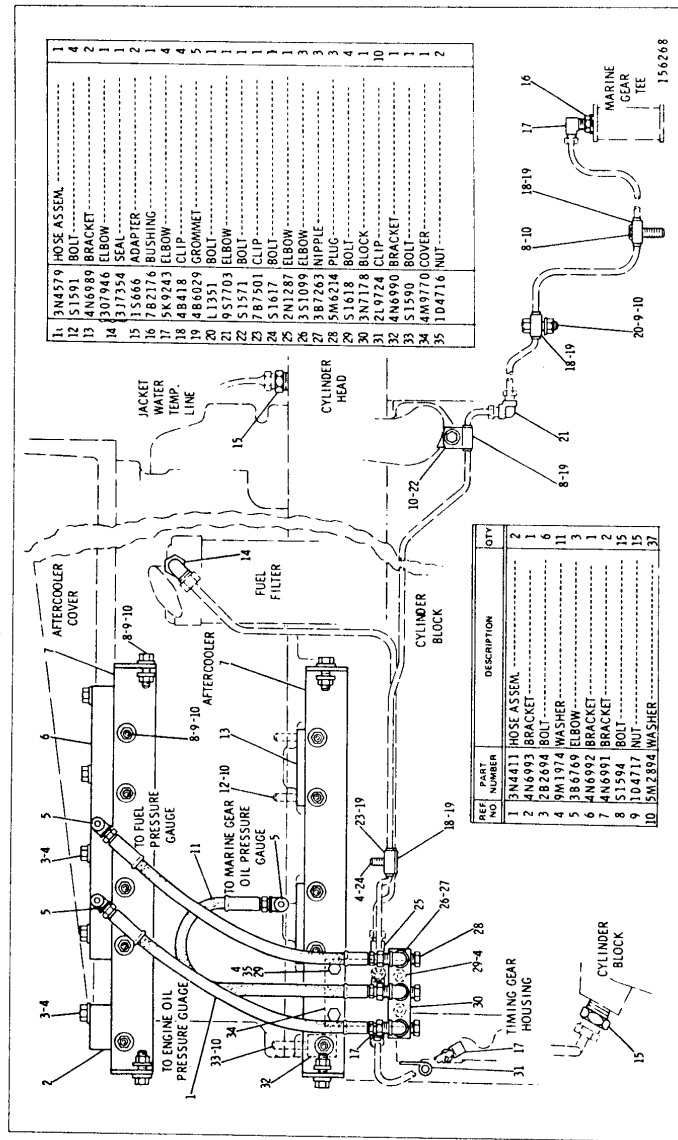


4N869 INSTRUMENT PANEL GROUP—Type 4
FOR USE WITH NON-AFTERCOOLED ENGINE ONLY

308242

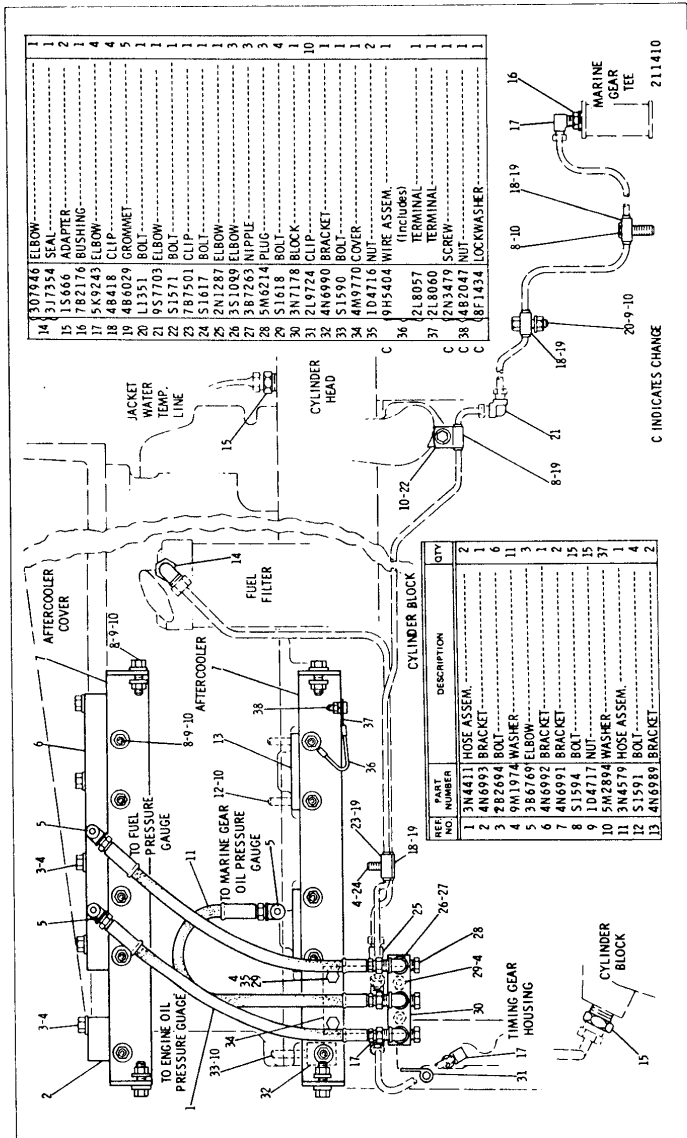
CONSISTS OF:		PAGE
1	3N9008 TEMPERATURE GAUGE GROUP.....	212K
1	3N9013 PANEL GROUP.....	212H
2	3N9016 PANEL COVER GROUP.....	212J
	(FOR DIRECT INJECTION, TURBOCHARGED ARRANGEMENT)	
- OR -		
1	3N9016 PANEL COVER GROUP.....	212J
	(FOR PRECHAMBERED, TURBOCHARGED, AFTER- COOLED ARRANGEMENT)	
	NOTE: FOR MODELS WITH ALTERNATORS	
	ADD: 1-3N9012 GAUGE GROUP.....	212K
	REMOVE: 1-3N9016 PANEL COVER GROUP.....	212J
1	4N1402 TACHOMETER DRIVE GROUP.....	210
1	6N2770 MOUNTING GROUP--L.H.	212G
	(FOR DIRECT INJECTION, PRECHAMBERED, TURBOCHARGED, AFTERCOOLED ARRANGEMENT)	
1	6N2771 MOUNTING GROUP--L.H.	212F
	(FOR PRECHAMBERED, TURBOCHARGED, AFTERCOOLED ARRANGEMENT)	
1	3N5991 THERMOCOUPLE	
1	3N7012 PYROMETER--SINGLE	
1	3N7078 ADAPTER	
1	3N7830 PLATE--OPERATING	
1	4N7017 TUBE ASSEMBLY--OIL PRESSURE	
1	6N2811 TUBE ASSEMBLY--FUEL PRESSURE	

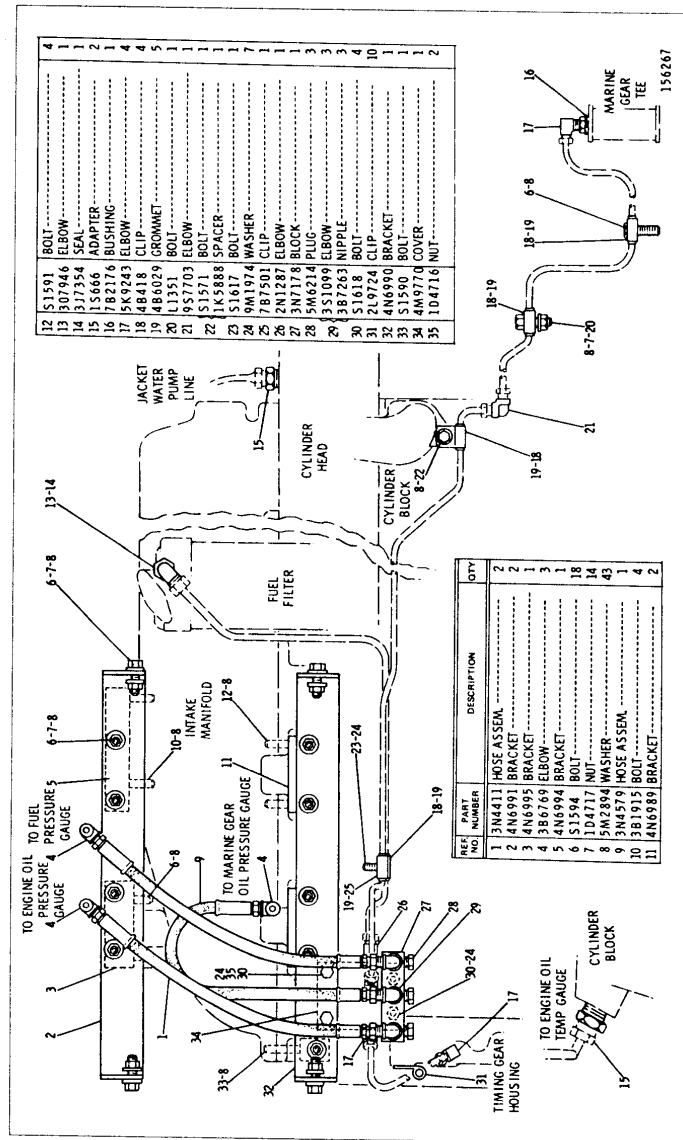
3N8700 PREMIUM INSTRUMENT PANEL, MOUNTING & CONNECTIONS
AN ATTACHMENT



6N2771 INSTRUMENT PANEL MOUNTING GROUP—L.H.—Type 1
SEE PREMIUM INSTRUMENT PANEL MOUNTING AND CONNECTIONS LISTED ON PAGE 212E
FOR USAGE, AN ATTACHMENT

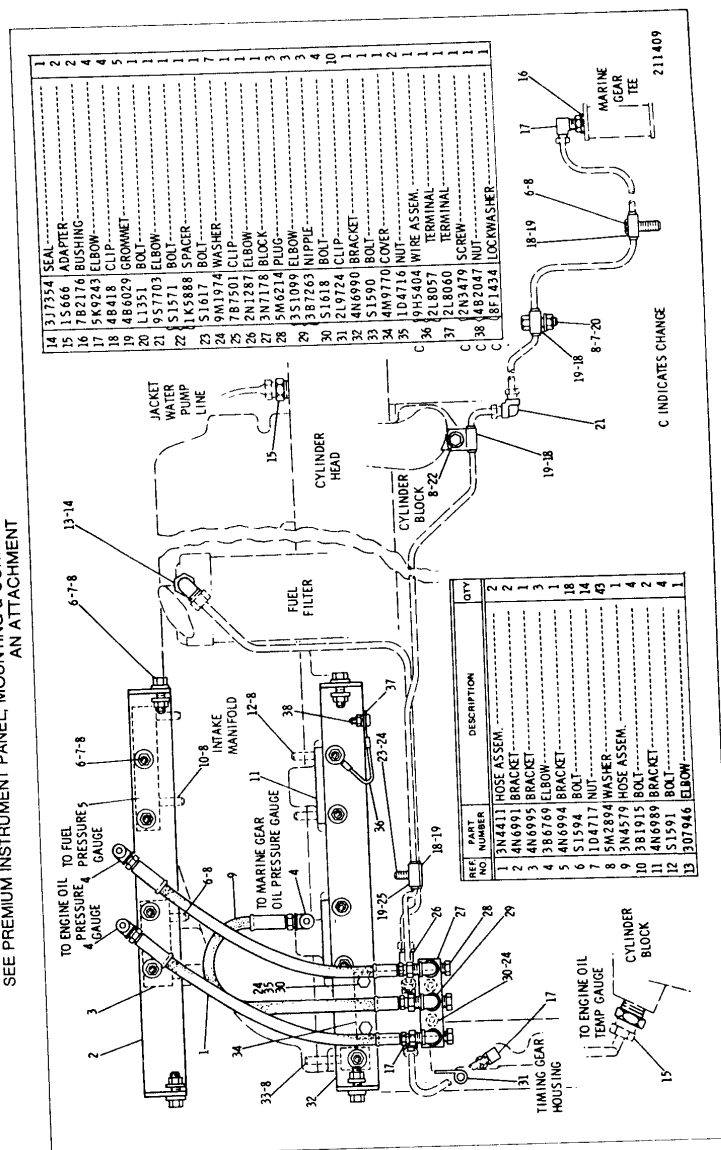
6N2771 INSTRUMENT PANEL MOUNTING GROUP—LH—Type 2
SEE PREMIUM INSTRUMENT PANEL, MOUNTING & CONNECTIONS LISTED ON PAGE 212E FOR USAGE
AN ATTACHMENT

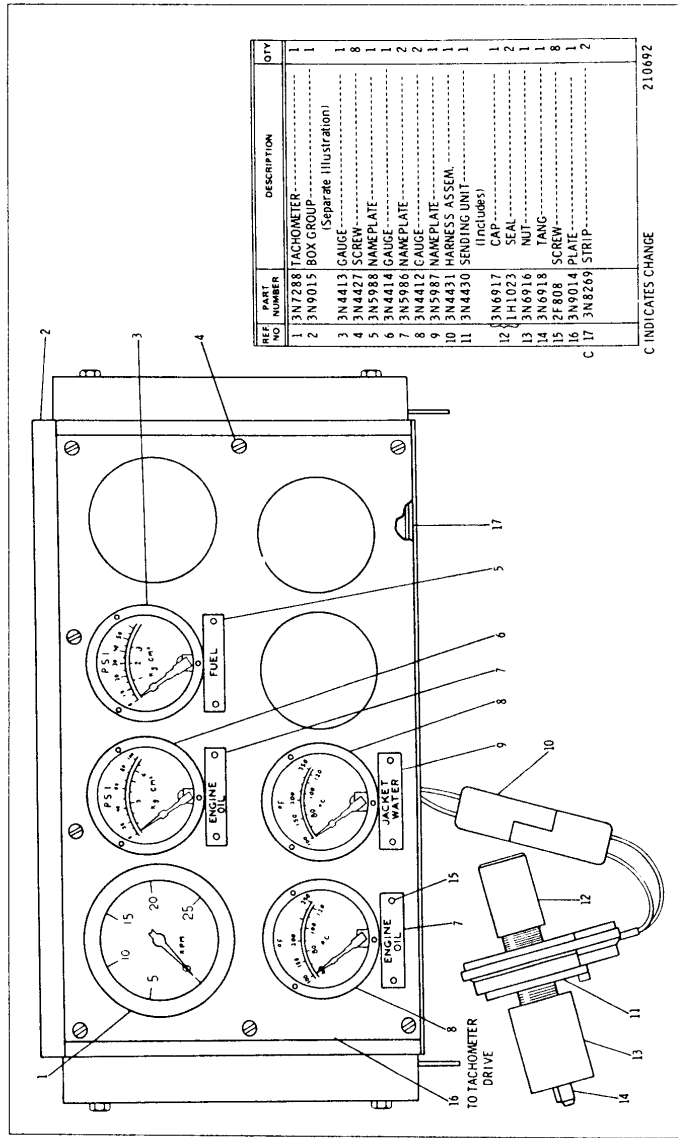




6N2770 INSTRUMENT PANEL MOUNTING GROUP—LH—Type 1
SEE PREMIUM INSTRUMENT PANEL, MOUNTING & CONNECTIONS LISTED ON PAGE 212E FOR USAGE
AN ATTACHMENT

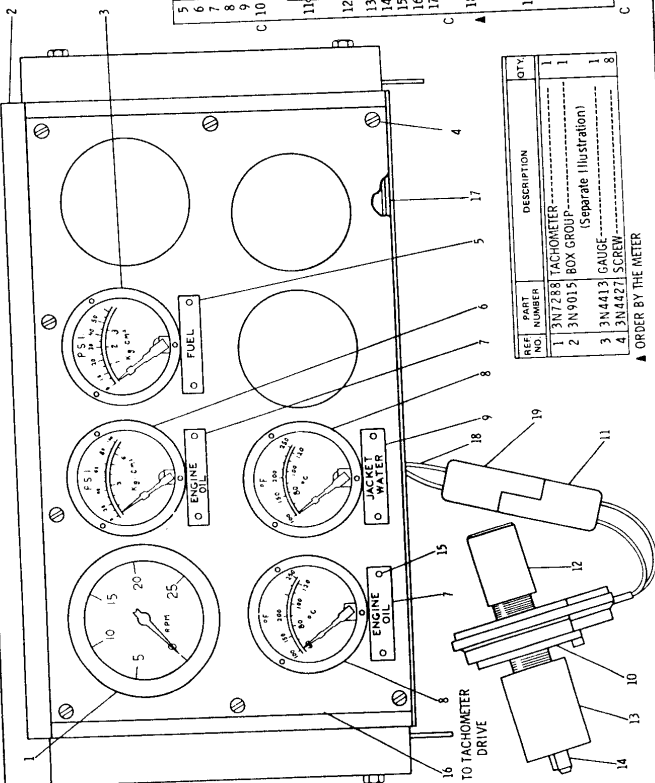
6N2770 INSTRUMENT PANEL MOUNTING GROUP—LH—Type 2
SEE PREMIUM INSTRUMENT PANEL, MOUNTING & CONNECTIONS LISTED ON PAGE 212E FOR USAGE
AN ATTACHMENT





3N9013 INSTRUMENT PANEL GROUP—Type 1
3N9015 Box parts are shown on Page 212J. SEE PREMIUM INSTRUMENT PANEL
MOUNTING & CONNECTIONS LISTED ON PAGE 212E FOR USAGE. AN ATTACHMENT

3N9015 Box parts are shown on page 212E for usage. An attachment mounting and connections listed on page 212E for usage.

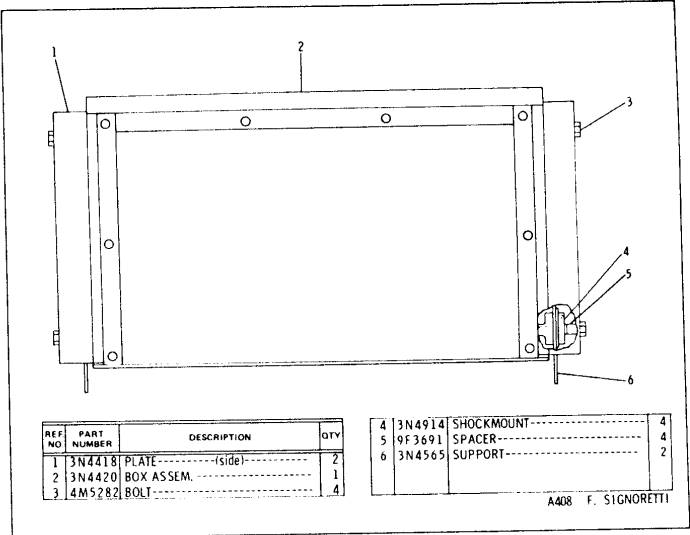


REF NO.	PART NUMBER	DESCRIPTION	QTY.
1	3N7288	TACHOMETER-----	1
2	3N9015	BOX GROUP----- (Separate Illustration)	1
3	3N4413	GAUGE-----	1
4	3N4427	SCREW-----	8

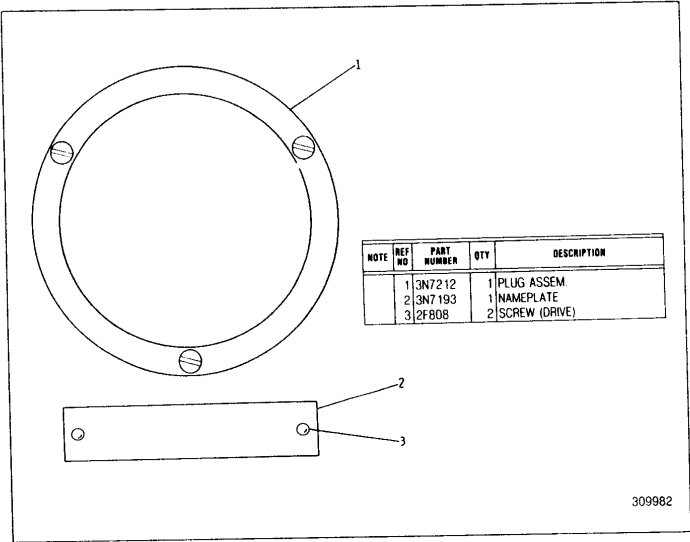
5	3N5938	NAME PLATE	---
6	3N2494	GAUGE	---
7	3N5966	NAME PLATE	---
8	3N2494	GAUGE	---
9	3N5937	NAME PLATE	---
10	3N8176	SENDER ASSEM.	---
11	7N9738	(includes)	---
12	7N7779	HOUSING	---
13	7N7779	PIN	---
14	3N6023	SOCKET	---
15	3N6023	CAP	---
16	3N6017	SEAL	---
17	3N6916	NUT	---
18	3N6918	TANG	---
19	2N8008	CPREW	---
20	3N9014	PLATE	---
21	3N8269	STRIP	---
22	5N8209	HARNES ASSEM.	---
23	5N8209	(includes)	---
24	5P5677	WIRE	---
25	7N9017	TERMINAL	---
26	7N9737	HOUSING	---
27	7N7780	PIN	---
28	7N7779	SOCKET	---

C INDICATES CHANGE

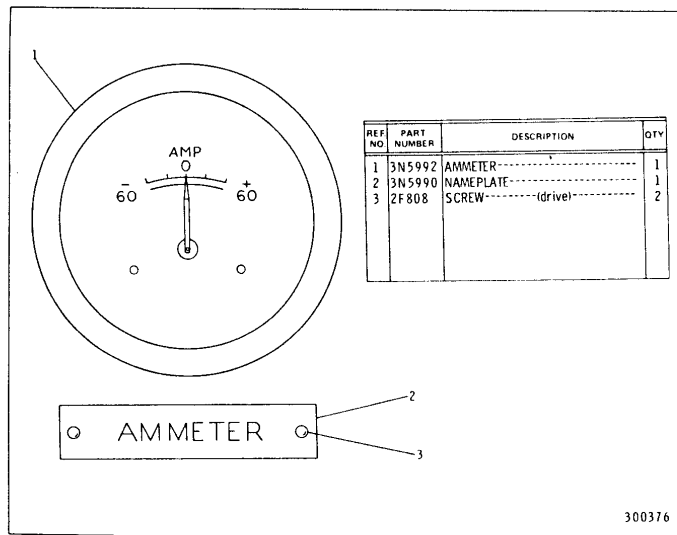
232544



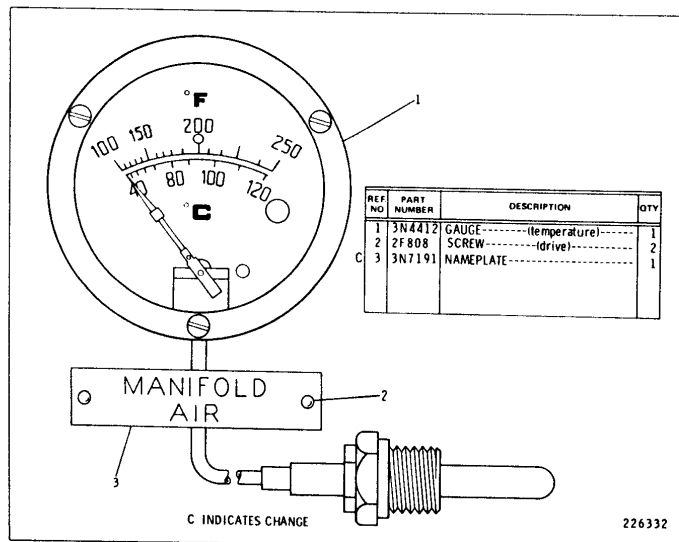
3N9015 INSTRUMENT PANEL BOX GROUP—Type 1
Part of 3N9013 Instrument Panel Group



3N9016 INSTRUMENT PANEL COVER GROUP
SEE PREMIUM INSTRUMENT PANEL MOUNTING AND CONNECTIONS
LISTED ON PAGE 212E FOR USAGE. AN ATTACHMENT



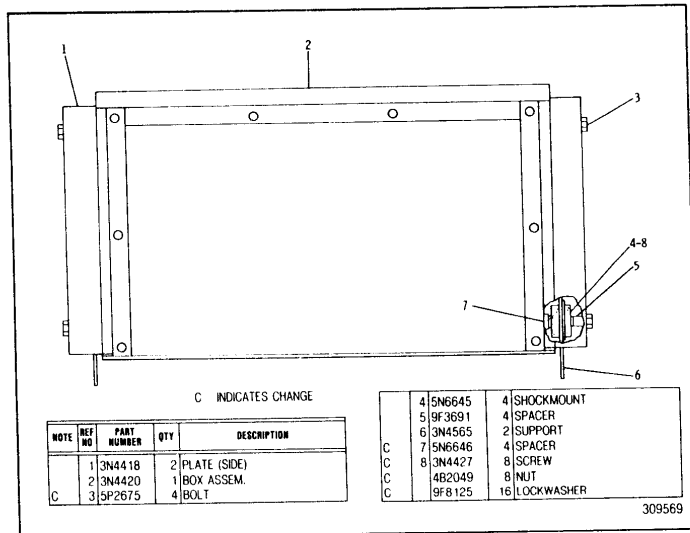
3N9012 AMMETER GAUGE GROUP
SEE PREMIUM INSTRUMENT PANEL, MOUNTING & CONNECTIONS LISTED
ON PAGE 212E FOR USAGE. AN ATTACHMENT



3N9008 TEMPERATURE GAUGE GROUP
SEE PREMIUM INSTRUMENT PANEL, MOUNTING & CONNECTIONS
LISTED ON PAGE 212E FOR USAGE. AN ATTACHMENT

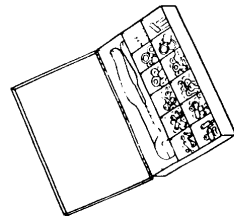
QUANTITY USED	PART NUMBER	DESCRIPTION
1	8L4340	Film—Glow Plugs
1	9L5921	Plate—Glow Plug Switch On Glow Plug Switch Bracket
1	4N6948	Plate—3406 CAT
1	4N8775	Plate—CATERPILLAR
1	6N228	Plate—Caution and Information On Left Rear of Inlet Manifold
1	1H3040	Transfer—Safety On Dash or Guards when used
1	1M4898	Transfer—Filter Instructions On Oil Filter Cover
1	7M2214	Transfer—Air Cleaner Instructions On Side of Diesel Air Cleaner
1	1S9547	Transfer—Crankcase Instructions On Oil Filter or Open Space near Oil Filter
1	6N1056	Film—Glow Plug Instructions

NAME PLATES AND TRANSFERS



3N9015 INSTRUMENT PANEL BOX GROUP—Type 2
Part of 3N9013 Instrument Panel Group

CATERPILLAR 3406 INDUSTRIAL ENGINE



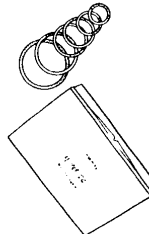
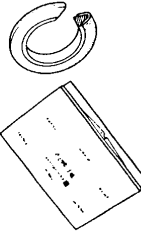
IP2205 ELECTRIC TERMINAL KIT

(Includes terminals, wire joints and crimping tool)

953138 SEAL KIT

(Includes 28 metal - backed seals)

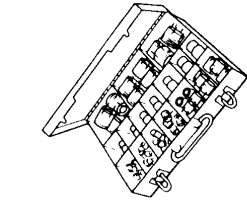
Qty.	Nominal Size	Part No.
2	1/2 inch (1,27 cm)	511583
6	3/4 inch (1,905 cm)	613575
6	1 inch (2,54 cm)	613600
6	1 1/4 inch (3,175 cm)	613625
4	1 1/2 inch (3,81 cm)	613650
4	2 inches (5,08 cm)	613600



953135 SEAL KIT

(Includes 60 rubber O-ring seals)

Qty.	Nominal Size	Part No.
10	1/2 inch (1,27 cm)	415140
10	3/4 inch (1,905 cm)	415267
10	1 inch (2,54 cm)	410520
10	1 1/4 inch (3,175 cm)	410522
10	1 1/2 inch (3,81 cm)	410524
10	2 inches (5,08 cm)	410527



THREADED INSERTS KITS

Master (Includes inserts and tools)

Coarse	Fine	Size
953700	953900	Assorted

Repair (Includes inserts and tools)

953510	953909	#10
953512	953911	1/4
953514	953913	5/16
953618	953915	3/8
953620	953919	7/16
953622	953921	1/2
953624	953923	9/16
953626	953925	5/8
953628	953927	3/4
953630	953929	7/8
953632	953931	1
953633		1 1/8
953635		1 1/4
953637		1 1/2

Refill (Includes inserts)

953674	953673	#10
953649	953639	1/4
953650	953640	5/16
953651	953641	3/8
953652	953642	7/16
953653	953643	1/2
953654	953644	9/16
953655	953645	5/8
953656	953646	3/4
953657	953647	7/8
953658	953648	1
953675		1 1/8
953677		1 1/4
953679		1 1/2

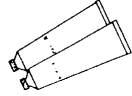
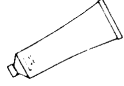
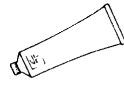
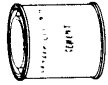
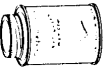
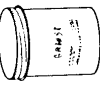
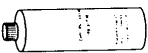
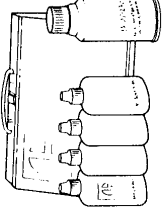
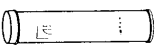
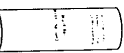
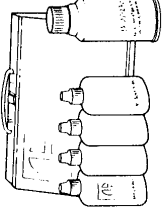
HARDWARE ASSORTMENT KITS

857198 Course Thread Hex Nut
857197 Fine Thread Hex Nut
857196 Lockwasher Assortment
857195 Flatwasher Assortment
857193 Woodruff Key Assortment

139738

RELATED REPAIR ITEMS

RELATED REPAIR ITEMS

	<u>GASKET CEMENT</u> 942471 8 oz. (227 g)		<u>EPOXY CEMENT</u> 5M2941 2 - 2 oz. (57g) Tube		<u>BEARING LUBRICANT</u> 253230 14 1/2 oz. (411 g)		<u>GASKET SEALER</u> 4H5363 11 oz. (312 g) (fast drying-hard setting) 8H5137 11 oz. (312 g) (non-hardening)		<u>ANTI-SEIZURE COMPOUND</u> 459416 16 oz. (454 g) Aerosol 9N5710 16 oz. (454 g) Paste		<u>GLASS OR PLASTIC CEMENT</u> 3S1831 1 pint (0.473 L)
	<u>LIQUID GASKET</u> 7M7260 8 oz. (227 g)		<u>SEALING COMPOUND</u> 5S1454 1 pint (0.473 L)		<u>GREASE - SILICONE</u> 4I7464 8 oz. (227 g)						<u>CHAIN & CABLE LUBRICANT</u> 9S6106 16 oz. (454 g) Aerosol 2P2737 Case of 12
	<u>SILICONE FLUID</u> 8M553 145 cc. 9M5165 150 cc.		<u>GREASE GUN CARTRIDGE</u> 1P808 14 1/2 oz. (411 gms)		<u>COOLING SYSTEM INHIBITOR</u> 3P2043 1 pint (0.473 L) P0001 1 case of 12 3P2044 1 quart (0.946 L) P0002 1 case of 12		<u>951262 SEALANT REPAIR KIT</u> contains: Bearing Mount 7M7556 1 2/3 fl. oz. (50 cc) Thread Lock 9S3263 1 2/3 fl. oz. (50 cc) Pipe Sealant 9S3264 1 2/3 fl. oz. (50 cc) Retaining Compound 9S3265 1 2/3 fl. oz. (50 cc) Quick Cure Primer 8M8060 6 oz. (170 g) Aerosol		<u>PENETRATING OIL</u> 9S6109 16 oz. (454 g) Aerosol 2P2740 Case of 12		<u>BATTERY SAVER & CLEANER</u> 9S6110 16 oz. (454 g) Aerosol 2P2741 Case of 12



ELECTRICAL TAPE

1P810 (plastic) 2 3/4" (20mm) width
66 ft. (20m) length
984287 (cloth) 3 1/4" (20mm) width
30 ft. (9m) length
(Plastic tape comes in dispenser.
Cloth tape does not.)



958703 ANTI-SKID TREADS

(May be ordered by foot lengths up to
60 feet (18, 30m), width 4" (100mm))



854627 CIRCUIT TESTER

(Maximum Capacity: 10 oms)



MAGNETIC DRAIN PLUGS

Hole Diameter	Part Number	Type	Thread Size-Threads Per Inch	Head Inches	Inches	mm	Part No.
.219	5,6 4L0820	I	5/8 - 11	7/8 Hex	1 3/16	26,9	5K1555
.310	7,9 7L6479	I	5/8 - 18	7/8 Hex	3/4	19,1	2R166
.380	9,7 5L6688	I	7/8 - 14	1 1/8 Hex	1 3/16	30,2	3H4190
.438	11,1 4L0821	I	1 1/8 - 12	1 1/2 Hex	1 1/2	38,1	8H3837
.469	11,9 309871	I	1 1/8 - 12	1 1/2 Hex	1 7/8	47,8	2J1559
.484	12,3 80H3839	I	1 1/2 - 12	1 Hex	1 1/2	38,1	8H5576
.500	12,7 309872	I	1 1/2 - 12	1 7/8 Hex	1 7/8	47,8	2D8390
.625	15,9 2M4009	I	1 1/2 - 14	9/16 Sq.	1 1/8	28,5	2F3628
.687	17,5 6K2640	I	3/4	5/8 Sq.	1 1/4	31,8	2H3865
.750	19,0 5K3546	I	7/8 - 14	7/8 Hex	1 5/8	41,3	2R1491
.875	22,2 3H4871	I	1 Std. Pipe Thd.	13/16 Sq.	1 7/16	36,6	2H3864
1,000	25,4 2D9406	I	1 1/4 Std. Pipe Thd.	15/16 Sq.	1 11/16	42,9	2H3863
1,250	31,8 4S6336	I	1 1/4 Std. Pipe Thd.	15/16 Sq.	1 3/8	35,0	7H3664
1,375	34,9 4F8711	III	3/4 - 14 Pipe Thd., Fine	1 1/2 Sq.	1 5/16	30,2	5D1894
1,500	38,1 3L1979	III	1 - 11 1/2 Pipe Thd., Fine	1 1/2 Sq.	1 5/16	33,4	2K744
2,000	50,8 1L6377	III	1 1/4 - 11 1/2 Pipe Thd., Fine	3/4 Sq.	13/16	20,6	5S4017
2,250	57,2 7M3248	III	2 - 12	3/4 Sq.	1 11/16	42,9	8B6599
2,500	63,5 3L8852						
3,000	76,2 1L6366						



BUTTON PLUGS

MEMORANDA

SPECIFICATIONS

(SUBJECT TO CHANGE WITHOUT NOTICE)

Weight, shipping (approximate) 2940 lbs.

DIMENSIONS

Length 64.4"
Width 35.5"
Height (excluding exhaust pipe) 59.5"

CAPACITIES

Lubrication: Engine: full pressure system gear type pump
Crankcase Capacity 7.5 U.S. Gal.
Cooling System:
Engine only 9.0 U.S. Gal.

STARTING METHOD

Electric, Air, Hydraulic Starting Systems are available

ATTACHMENTS

Additional equipment such as Tachometers, Generators, Fans, Clutches, etc., are available at extra cost. Consult your Caterpillar Dealer.

MACHINE SERIAL NUMBER PLATE LOCATION

Serial number plate is located at upper left-hand rear corner of cylinder block.

CARACTÉRISTIQUES

(PEUVENT ÊTRE MODIFIÉES SANS PRÉAVIS)

Poids (approx.), en ordre d'expédition 1335 kg

DIMENSIONS

Longueur 1635 mm
 Largeur 90 mm
 Poids (sans le tuyau d'échappement) 1510 mm

CONTENANCES

Graissage du moteur sous pression, pompe à engrenages
 Carter moteur 28 litres
 Circuit de refroidissement :
 Moteur seul 35 litres

DÉMARRAGE

Systèmes de démarrage électrique, hydraulique ou pneumatique au choix.

ACCESSOIRES

Les équipements tels que tachymètres, alternateurs, ventilateurs, embrayages, etc., sont facultatifs et facturés en sus. Consulter le concessionnaire Caterpillar.

EMPLACEMENT DU NUMÉRO DE SÉRIE

La plaque portant le numéro de série est située dans le coin supérieur arrière gauche du bloc-cylindres.

ESPECIFICACIONES

(SUJETAS A CAMBIOS SIN PREVIO AVISO)

Peso de embarque aproximado 1335 kg

DIMENSIONES

Longitud 1635 mm
 Ancho 905 mm
 Alto (excluyendo el tubo de escape) 1510 mm

CAPACIDADES

Lubricación: Motor: con bomba de engranajes
 para sistema de presión total
 Capacidad del cárter 28 litros
 Sistema de enfriamiento:
 Motor solamente 35 litros

METODO DE ARRANQUE

Se suministran sistemas de arranque eléctrico, por aire o hidráulico.

ACCESORIOS

Equipo adicional tal como tacómetros, generadores, ventiladores, embragues, etc., se suministran a costo extra. Consulte al distribuidor de Caterpillar.

UBACACION DE LA PLACA CON EL NUMERO DE SERIE DE LA MAQUINA

La placa con el número de serie está colocada en la esquina superior izquierda del bloque del motor.

ESPECIFICAÇÕES

(SUJEITAS A ALTERAÇÕES SEM AVISO PRÉVIO)

Peso de embarque, aproximado 1 335 kg

DIMENSÕES

Comprimento 1 635 mm
 Largura 905 mm
 Altura (fora o tubo de descarga) 1 510 mm

QUANTIDADES CONTIDAS

Cárter do motor (sistema de lubrificação todo sob pressão,
 com bomba de engrenagens) 28 litros
 Sistema de arrefecimento (sem radiador) 35 litros

MÉTODO DE PARTIDA

Elétrico direto, hidráulico, ou a ar comprimido.

ACESSÓRIOS

Existem disponíveis equipamentos extras tais como tacómetro, gerador, embreagem, etc. Consulte o seu Revendedor Caterpillar.

SITUAÇÃO DO NÚMERO DE SÉRIE

A placa do número de série fica no canto superior traseiro do lado esquerdo do bloco do motor.

TECHNISCHE DATEN

(UNVERBINDLICH, ÄNDERUNGEN VORBEHALTEN)

Versandgewicht, etwa 1 335 kg

ABMESSUNGEN

Länge 1 635 mm
Breite 905 mm
Höhe (ohne Auspuff) 1 510 mm

FÜLLMENGEN

Schmierung: Motor: Volldrucksystem, Zahnradpumpe
Kurbelgehäuse 28 l
Kühlsystem:
Nur Motor 35 l

STARTANLAGEN

Elektrische, Druckluft- und Hydraulikstartanlagen sind erhältlich.

ZUBEHÖR

Zusätzliche Ausrüstung wie Drehzahlmesser, Gleichstromlichtmaschinen, Lüfter, Kupplungen usw. sind gegen Aufpreis erhältlich. Fragen Sie Ihren Caterpillar-Händler.

LAGE DER SERIENNUMMERN Schilder

Das Seriennummernschild befindet sich oben links an der Rückseite des Motorblocks.

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