

# INTERNATIONAL<sup>®</sup> ENGINES

**UC-221 AND UC-263**

**ENGINE  
AND  
ATTACHMENTS**

**FORM  
PU-52D**

**MAY, 1971**

*(Supersedes FORM PU-52C)*

**PARTS CATALOG**



Due to a continuous program of research and development, some procedures, specifications and parts may be altered in a constant effort to improve machines.

Periodic revisions may be made to this publication and mailed automatically to distributors. It is recommended that customers contact their distributor or dealer for information on the latest revision.

## **UC-221 AND UC-263**

### **ENGINE AND ATTACHMENTS**

**FORM  
PU-52D**

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*(Supersedes FORM PU-52C)*

*See Last Page for "New and Displaced Parts List"*

# **The Importance of ADEQUATE PARTS and SERVICE**

The wise purchaser of a new machine gives consideration to the following factors:

1. *Original quality*
2. *Availability of service parts*
3. *Availability of adequate service facilities*

In many cases the machine becomes the only means of performing certain tasks that must be done in a limited period of time. Wear is to be expected and under extreme conditions even breakage of parts may occur. However, the user can still be assured of getting his work done on time if service parts and adequate service facilities are available.

Foresighted International Harvester distributors and dealers make every effort to provide good service and maintain a completely adequate stock of service parts.

When in need of parts, always give your authorized International Engine distributor or dealer your Chassis and Engine serial numbers. We suggest that you write these serial numbers in the spaces provided below, for ready reference when parts are required.

Chassis Serial No. \_\_\_\_\_  
(Stamped on plate on left side of flywheel housing)

Engine Serial No. \_\_\_\_\_  
(Stamped on left side of engine crankcase just below the distributor)

## **INSTRUCTIONS FOR ORDERING PARTS**

- (a) All parts orders should be sent to parts depot when so instructed. Give complete address, state the county and railroad station (when shipping point is different than post office), also whether shipment is to go by parcel post, express, truck, or freight.
- (b) When ordering parts, give the IH part number, including suffix or prefix letters. To facilitate identification of these parts, "Complete Serial Numbers" (including letters and numerals) assigned to machines, if any, should be furnished.
- (c) Parts should be ordered on the standard parts order blank. The parts should be arranged in sequence by part numbers to facilitate service on orders at the parts depot.
- (d) Claims for shortage or error in the handling of an order for parts must be made upon receipt of goods.

*It is the policy of International Harvester Company to improve its products whenever it is possible and practical to do so.*

*We reserve the right to make changes or add improvements in the design or construction of parts at any time without incurring the obligation to install such changes on products previously delivered.*

## INTRODUCTION

This catalog contains a list of service parts for the UC-221 and UC-263 engines and attachments. The UC-221 has a 3-9/16 x 3-11/16 inch six-cylinder carbureted engine and the UC-263 has a 3-9/16 x 4.390 six-cylinder carbureted engine.

Following is a brief summary of the system used in compiling this catalog. It is to your advantage to carefully study this summary.

This catalog is printed in a double column page format, and is divided into four sections --- Introductory Pages, Indexes to Units, Illustrations and Parts Lists, and Numerical Index.

(1) INDEXES. Two types of indexes are used. The index to units alphabetically lists all of the units by page number. The numerical index at the back of the catalog lists all part numbers (excluding standard fasteners) giving the page number where the part is listed.

NOTE - Refer frequently to the Index to Units to save time in locating the proper unit.

(2) ILLUSTRATIONS. Parts in this catalog are illustrated by the "exploded view" method. Individual parts in each illustration are shown where they belong in relation to one another. Reference numbers only are shown in each illustration. These numbers correspond with numbers in the Reference Number column in the accompanying list of parts. Parts in illustrations without reference numbers are the same as duplicate parts with reference numbers.

CAUTION: Reference numbers should not be used when ordering parts. Always use IH part numbers or description when ordering.

(3) METHOD OF LISTING. The parts list of each classification is divided into units. Parts are listed in order according to reference number shown in the illustration, followed by a full description based upon the "noun first" method --- i.e., the noun name of the parts is listed first then the modifying descriptive information which serves to specifically identify the item. For example, SHAFT w/two PLUGS, valve lever. Parts not shown in illustrations appear at end of list in alphabetical sequence by noun name. Parts listed will work on all units covered in this catalog unless a serial number or other qualifying designation is given for purpose of identification.

Throughout this catalog the term "Front" indicates the radiator end. Whenever the terms "Right" or "Left" are used it should be understood to mean from a rear position looking toward the radiator end.

(4) NUMBER REQUIRED. In this new double-column catalog format the single "No. Req'd." column is eliminated and the quantity used of each item is shown in parenthesis (4) following the description of the item. Where no quantity is indicated it should be understood to mean that only one (1) is required.

In many parts lists it is possible to include more than one assembly or attachment. The assemblies or attachments are listed at the beginning of the parts lists with the letters A, B, C, etc., preceding the part number of the assembly or attachment. The number required information is shown in parenthesis following the description of the parts. When letters (A, B, C, etc.) are shown without a quantity it should be understood to mean only one (1) is required. Parts without letters after the description indicate the part is used for all assemblies or attachments listed in the heading.

(5) ASSEMBLIES AND ATTACHMENTS. Wherever possible the component parts of assemblies or attachments are shown in the "exploded views" by use of boxes, brackets or arrows. Component parts of assemblies or attachments are listed by one of the following methods.

(a) The listings are fully covered by descriptions for simple assemblies and attachments.

(b) When four or more parts are contained in the assemblies or attachments the listing of components immediately follows the description with the wording "(Composed of -)".

(c) Assemblies or attachments consisting of many parts shows the assembly or attachment number at the beginning of the unit list, followed by the listing of the components.

Exceptions to the above methods are explained by footnotes in the text.

Individual parts of an assembly which are not available for service are marked with a symbol §. In some instances, such parts are listed with a notation giving the information which is to be used for ordering.

(6) REVISIONS. Due to a continuous program of research and development, some procedures, specifications and parts may be altered in a constant effort to improve machines.

Periodic revisions may be made to this publication and mailed automatically to distributors. It is recommended that customers contact their distributor or dealer for information on the latest revision.

(7) MISCELLANEOUS PARTS. Standard bolts, screws, nuts, etc. --- are not identified by a reference number. These parts are known as COMMON HARDWARE items and appear in abbreviated nomenclature and are shown indented under the major items with which they are used. They should be ordered as listed, since they are not component parts of the pieces they attach. Hardware parts identified with part numbers have been designed for a specific usage. Standard hardware parts should not be substituted for them.

WARNING: Attaching parts especially made for their location should never be substituted with regular standard parts.

The following rules are established to govern the listing of attaching parts:

All Carriage, Machine and Plow BOLTS; NUTS; Cap, Machine and Set SCREWS, will be considered furnished with National Course Thread unless otherwise specified. The number of threads per inch will be eliminated.

All NUTS will be considered "hex" unless otherwise specified.

All WASHERS will be considered "Plain" unless otherwise specified. The "ID", "OD" and "No." identity will be eliminated. The inside dimension will be listed first, followed by the outside diameter and the thickness.

All lock WASHERS will be considered "Medium" type unless specified as "Light" or "Heavy".

All cotter PINS will be considered "Extended Prong" type unless otherwise specified.

All groove PINS will be considered "Standard Groove" unless otherwise specified.

All common RIVETS will be considered "Annealed" unless otherwise specified.

All countersunk-head tubular RIVETS will be considered "Copper-Plated Steel" unless otherwise specified.

All oval-head tubular RIVETS will be considered "Brass".

Standard bolts used in International Harvester Products are manufactured under standards known as Unified National Coarse Thread (U.N.C. and Unified National Fine Thread (U.N.F.) with the number of threads per inch for various diameters as follows:

## INTRODUCTION

Diameter of Bolt	No. of Threads per inch (U. N. C. )	No. of Threads per inch (U. N. F. )
1/4"	20	28
5/16"	18	24
3/8"	16	24
7/16"	14	20
1/2"	13	20
9/16"	12	18
5/8"	11	18
3/4"	10	16
7/8"	9	14
1"	8	14
1-1/8"	7	12
1-1/4"	7	12
1-3/8"	6	12
1-1/2"	6	12

(8) ABBREVIATIONS. The abbreviations used in this catalog are explained in the list of abbreviations on page 3.

(9) SERIAL NUMBERS.

<u>Models</u>	<u>Starting Engine Serial Number</u>	<u>Starting Chassis Serial Number</u>
UC-221	C-221 6093	UC-221 501
UC-263	C-263 6682	UC-263 501

The engine serial numbers for the UC-221 and UC-263 are stamped on a pad on the left side of the engine crankcase just below the distributor.

The chassis serial numbers for these units are stamped on a name plate on the left side of the flywheel housing.

## LIST OF ABBREVIATIONS

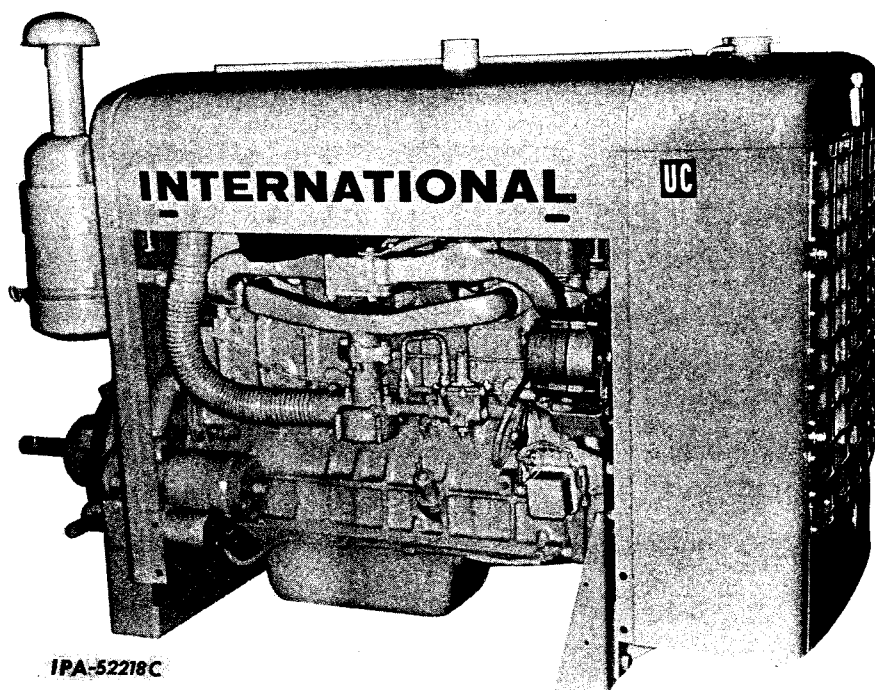
A period after the abbreviation is used only when the abbreviation form spells a common English word.

adj.	adjustable
al	aluminum
aly-stl	alloy steel
amp	ampere, amperes
anl	annealed
approx	approximately
assy	assembly
att	attachment
bd-hd	binding head
b-hd	button head
brg	bearing
brs	brass
brz	bronze
cd-pltd	cadmium plated
cd-pltd-stl	cadmium plated steel
cr-pltd	chromium plated
cr-pltd-stl	chromium plated steel
CI	cast iron
csk	countersunk
csk-hd	countersunk head
cl-rec-hd	clutch recess head
com	common
cone-pt	cone point
contd	continued
cop	copper
cop-pltd	copper plated
cot.	cotter
c-pin	cotter pin
cres	corrosion-resistant-steel (stainless)
cr-rec-hd	cross recess head
cre	corrosion resisting
crg	carriage
cup-pt	cup point
cyl	cylinder, cylinders
deg	degree
dia	diameter
dld	drilled
dld-f c-pin	drilled for cotter pin
dld-f lkg-wire	drilled for locking wire
dog-pt	dog point
ext	external
f	for
fem	female
fil-hd	fillister head
fin-nk	fin neck
f-csk-hd	flat countersunk head
f-fil-hd	flat fillister head
f-hd	flat head
f-pt	flat-point
flex	flexible
fltd	fluted
ft	foot (or feet)
ga	gauge
hd	head
hdls	headless
hex.	hexagon
hex-hd	hexagonal-head
hex-soc-hd	hexagon socket head
hp	horsepower
hv	heavy
hyd	hydraulic
ID	inside diameter
in.	inch or inches

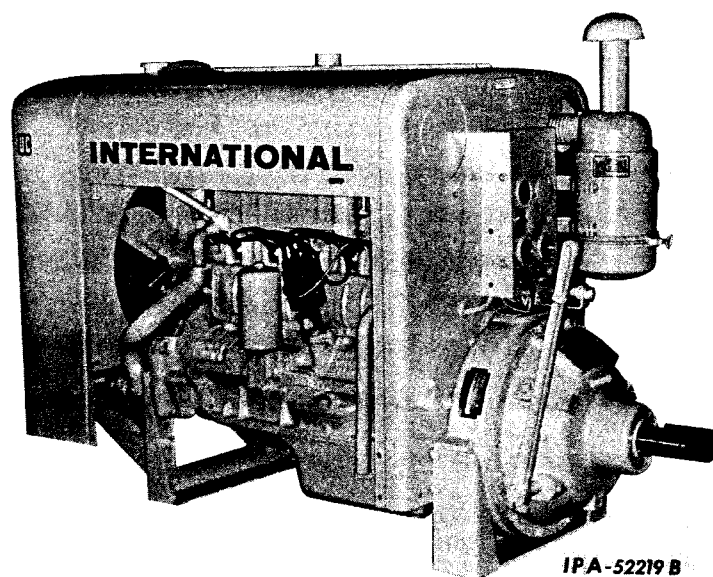
int	internal
lb	pound, pounds
lentil-hd	lentil head
LH	left hand
lkg	locking
LP Gas	Liquified Petroleum Gas
lub	lubrication
mach	machine
med	medium
MI	malleable iron
NC	National Coarse Thread
NF	National Fine Thread
ni	nickel
ni-pltd-stl	nickel plated steel
No.	number
NPT	National pipe thread
OC	outside circumference
OD	outside diameter
O/S	oversize
ov-hd	oval head
oz	ounce
parkerized-stl	parkerized steel
pkg	package
pltd	plated
pt	point
PTO	power take-off
rd-end	round end
rd-hd	round head
rd-pt	round point
reg	regular
RH	right hand
RPM	revolutions per minute
SAE	Society of Automotive Engineers
sf	semi-finished
slt	slotted
slt-hd	slotted head
slt-bd-hd	slotted binding head
slt-fil-hd	slotted fillister head
slt-f-hd	slotted flat head
slt-hex-hd	slotted hexagon head
slt-pan-hd	slotted pan head
slt-rd-hd	slotted round head
slt-truss-hd	slotted truss head
sq	square
sq-hd	square head
sq-nk	square neck
std	standard
std-hd	standard head
stl	steel
str	straight
T	teeth
tap	tapping
thd	thread
U/S	undersize
unfin	unfinished
wagon-box-hd	wagon box head
w/	with
w/brz	with bronze
w/hex.	with hexagon
w/o	without
zn	zinc
zn-ct	zinc coated
zn-pltd	zinc plated

## INTRODUCTION

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Right front view of the UC-221 and UC-263  
Engine with Hood and Dash, Radiator Grille, Front  
and Rear Support and Air Cleaner Attachments.



Left front view of the UC-221 and UC-263  
Engine with Hood and Dash, Front and Rear Support  
Fan, Fan Guard, Instrument Panel, Power Take-Off,  
Engine Controls and Air Cleaner Attachments.

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QUICK REFERENCE  
 FILTER ELEMENT AND BELTS  
 FOR  
 UC-221 AND UC-263  
 ENGINES

FILTER ELEMENTS	PART NO.
<b>FUEL SYSTEM</b>	
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## CARBURETED ENGINE

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### SERVICE ENGINES

#### SKELETON SERVICE ENGINES

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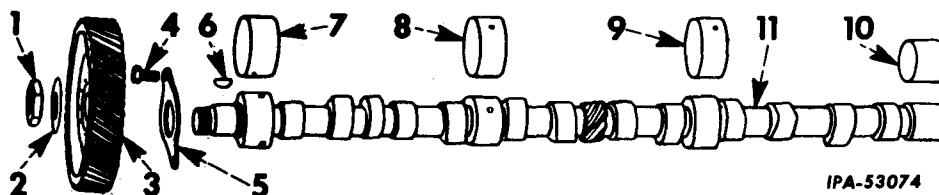
The above engines consist of -

Crankcase Assembly w/ Non-serviceable Sleeves	Fuel Pump Mounting Pad Cover and Gasket
Crankshaft w/Bearings	Rear Bearing Cap Filler Plugs
Gear and Seals	Oil Pump
Connecting Rods w/Bearings	Oil Filler Tube
Pistons w/Pins and Rings	Tappets
Camshaft w/Gear and Bearings	

NOTE - When Ordering A Service Engine, Give Complete  
Serial Number (Including Letters And Numbers)  
Shown On Crankcase Of Engine To Be Replaced.

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CAMSHAFT AND RELATED PARTS			CAMSHAFT AND RELATED PARTS - Continued		



1	16 026 DB	NUT, camshaft gear	8	70 260 R1	BEARING, camshaft intermediate front (also listed with "Crankcase and Related Parts")
2	16 025 D	LOCK, camshaft gear nut	9	70 261 R2	BEARING, camshaft intermediate rear (also listed with "Crankcase and Related Parts")
3	312 500 R1	GEAR, camshaft (*)	10	70 262 R1	BEARING, camshaft rear (also listed with "Crankcase and Related Parts")
3	367 240 R1	GEAR, camshaft (not *)	11	367 229 R1	CAMSHAFT
4	70 425 R1	BOLT, camshaft thrust plate (2)			
5	35 650 HA	PLATE, camshaft thrust			
6	127 559	KEY, camshaft gear (Woodruff No. 90)			
7	70 259 R2	BEARING, camshaft front (will work for 367 514 R1) (also listed with "Crankcase and Related Parts")			

(\*) - Used with Hydraulic Pump

# ENGINE

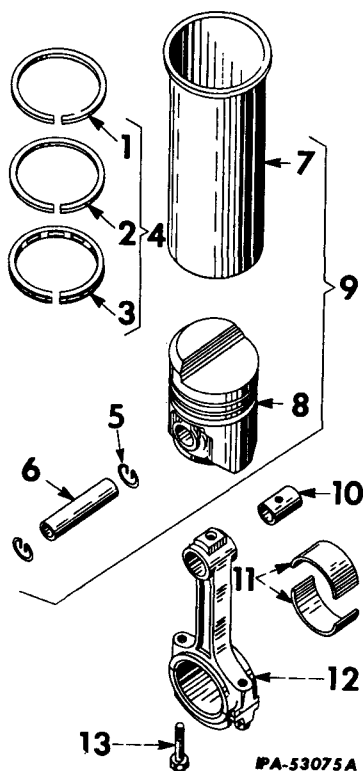
REF. PART  
NO. NUMBER DESCRIPTION

## CONNECTING RODS, SLEEVES AND PISTONS

(For use w/Sleeved Engines)

C-221 501 to 43020

C-263,501 to 56635



1	398 747 R1	RING, piston barrel compression (top groove) (3/32" chrome thick wall) (6)
2	389 751 R1	RING, piston taper face compression (second groove) (3/32" plain) (6)
3	388 355 R1	RING, piston oil regulating (third groove) (1/4" Perflon) (6)
4	400 366 R91	RING SET, piston (Replacement) (consists of six chrome compression rings, six plain compression rings and six oil regulating rings (optional w/ 367 649 R92))
4	367 649 R92	RING SET, piston (replacement) (consists of six chrome compression rings, six plain compression and six oil regulating rings) (6) (optional w/400 366 R91)
5	19 517 D	RING, piston pin retainer (12)
6	70 014 R1	PIN, piston (standard) (6) C-221 501 to 34717 (6) C-263 501 to 36027
6	278 271 R1	PIN, piston (standard) (6) C-221 34718 Up (6) C-263 36028 Up
6	70 015 R1	PIN, piston (.005" oversize) (6) C-221 501 to 34717 (6) C-263 501 to 36027

REF. PART  
NO. NUMBER DESCRIPTION

## CONNECTING RODS, SLEEVES AND PISTONS - Continued

(For use w/Sleeved Engines)

C-221 501 to 43020

C-263 501 to 56635

6	278 326 R1	PIN, piston (.005" oversize) (6) C-221 34718 Up (6) C-263 36028 Up
7		SLEEVE, cylinder (order sleeve assembly cylinder w/piston and rings) (6)
8		PISTON (order sleeve assembly cylinder with piston and rings) (6)
9	367 638 R94	SLEEVE w/PISTON and RINGS ASSY, cylinder (UC-221) (gasoline standard altitude) (6)
9	367 640 R94	SLEEVE w/PISTON and RINGS ASSY, cylinder (UC-263) (gasoline standard altitude) (6)
9	367 637 R94	SLEEVE SET, cylinder (consists of six SLEEVES w/PISTONS and RINGS, 367 638 R92) (UC-221) (gasoline standard altitude)
9	367 639 R94	SLEEVE SET, cylinder (consists of six SLEEVES w/PISTONS and RINGS, 367 640 R92) (UC-263) (gasoline standard altitude)
9	371 091 R92	SLEEVE w/PISTON and RINGS ASSY, cylinder (UC-221) (L.P. gas and natural gas) (6)
9	371 092 R92	SLEEVE w/PISTON and RINGS ASSY, cylinder (UC-263) (L.P. gas and natural gas) (6)
9	371 089 R92	SLEEVE SET, crankcase (consists of six SLEEVES w/PISTONS and RINGS, 371 091 R92) (UC-221) (L.P. gas and natural gas)
9	371 090 R92	SLEEVE SET, crankcase (consists of six SLEEVE w/PISTONS and RINGS, 371 092 R92) (UC-263) (L.P. gas and natural gas)
9	371 829 R94	SLEEVE SET, crankcase (consists of six SLEEVES w/PISTONS and RINGS, 372 082 R92) (UC-221) gasoline-high altitude)
9	372 082 R94	SLEEVES w/PISTONS and RINGS ASSY (UC-221) (gasoline-high altitude) (6)
9	371 833 R92	SLEEVE SET, crankcase (consists of six SLEEVES w/PISTONS and RINGS, 372 084 R92) (UC-263) gasoline-high altitude)
9	372 084 R92	SLEEVES w/PISTONS and RINGS ASSY, cylinder (UC-263) (gasoline-high altitude) (6)
10	364 913 R1	BUSHING, piston pin (6)
11	367 408 R11	BEARING, connecting rod (2 halves) (std) (6)
11	367 632 R11	BEARING, connecting rod (2 halves) (.002" undersize) (6)
11	376 666 R11	BEARING, connecting rod (2 halves) (.010" undersize) (6)

## ENGINE

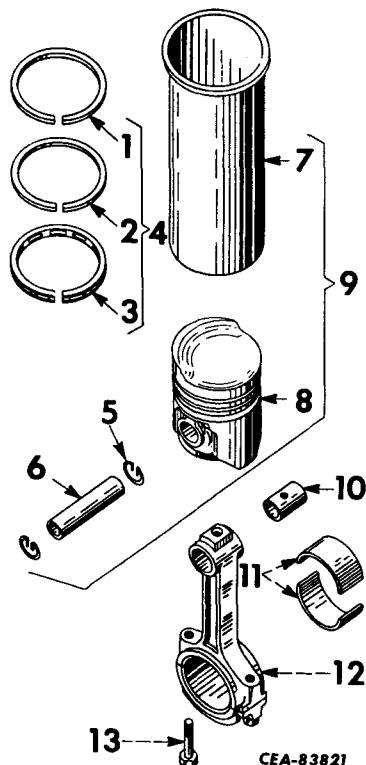
REF. NO.	PART NUMBER	DESCRIPTION
CONNECTING RODS, SLEEVES AND PISTONS - Continued (For use w/Sleeved Engines) C-221 501 to 43020 C-263 501 to 56635		
11	376 668 R11	BEARING, connecting rod (2 Halves) (.020" undersize) (6)
11	367 631 R11	BEARING, connecting rod (2 halves) (.020" undersize) (6)
11	367 630 R91	BEARING SET, connecting rod (consists of six BEARING, 367 408 R11) (standard)
11	377 285 R91	BEARING SET, connecting rod (consists of six BEARING, 3 367 632 R11) (.002" undersize)
11	376 665 R91	BEARING SET, connecting rod (consists of six BEARING, 376 666 R11) (.010" undersize)
11	376 667 R91	BEARING SET, connecting rod (consists of six BEARING, 376 668 R11) (.020" undersize)
11	372 443 R91	BEARING SET, connecting rod (consists of six BEARING, 367 631 R11) (.030" undersize)
12	367 406 R21	ROD w/two BOLTS, 316 366 R1 and BUSHING, 364 913 R1, connecting (6)
13	316 366 R1	BOLT, connecting rod (12)

# ENGINE

REF. PART  
NO. NUMBER DESCRIPTION

## CONNECTING RODS, SLEEVES AND PISTONS (For use w/Sleeved Engines)

C-221 43021 Up  
C-263 56636 Up



1	389 747 R1	RING, piston barrel compression (top groove) (3/32" chrome thick wall) (6)
2	389 751 R1	RING, piston taper face compression (second groove) (3/32" plain) (6)
3	388 355 R1	RING, piston oil regulating (third groove) (1/4" Perflon) (6) (also furnished as part of RING SET, 400 366 R91) (optional w/ RING, 399 441 R1)
3	399 441 R1	RING, piston oil regulating (third groove) (1/4" chrome) (6) (also furnished as part of RING SET, 400 366 R91) (optional w/RING 388 355 R1)
4	367 649 R92	RING SET, piston (replacement) (consists of six chrome compression rings, six plain compression and six oil regulating rings) (optional w/ 400 366 R91)
4	400 366 R91	RING SET, piston (replacement) (consists of six chrome compression rings, six plain compression rings and six oil regulating rings) (optional w/ 367 649 R92)
5	19 517 D	RING, piston pin retainer (12)
6	278 271 R1	PIN, piston (standard) (6)
6	278 326 R1	PIN, piston (.005" oversize) (6)

REF. PART  
NO. NUMBER DESCRIPTION

## CONNECTING RODS, SLEEVES AND PISTONS - Continued (For use w/Sleeved Engines)

C-221 43021 Up  
C-263 56636 Up

7		SLEEVE, cylinder (order sleeve assembly cylinder w/piston and rings) (6)
8		PISTON (order sleeve assembly cylinder w/piston and rings) (6)
9	378 601 R97	SLEEVE w/PISTON and RING ASSY, cylinder (UC-221) (gasoline standard altitude) (6)
9	378 604 R97	SLEEVE w/PISTON and RINGS ASSY, cylinder (UC-263) (gasoline standard altitude) (6)
9	378 600 R97	SLEEVE SET, cylinder (consists of six sleeves w/PISTONS and RINGS, 378 601 R93) (UC-221) (gasoline standard Altitude)
9	378 603 R97	SLEEVE SET, cylinder (consists of six sleeves w/PISTONS and RINGS, 378 604 R94) (UC-263) (gasoline standard altitude)
9	380 647 R97	SLEEVE w/PISTON and RING ASSY, cylinder (UC-221) (L. P. gas, natural gas, and gasoline high altitude) (6)
9	380 649 R97	SLEEVE w/PISTON and RING ASSY, cylinder (UC-263) (L. P. gas, natural gas and gasoline-high altitude) (6)
9	380 646 R97	SLEEVE SET, crankcase (consists of six SLEEVES w/PISTONS and RINGS, 380 647 R94) (UC-221) (L. P. gas, natural gas and gasoline -high altitude)
9	380 648 R97	SLEEVE SET, crankcase (consists of six SLEEVES w/PISTONS and RINGS, 380 649 R95) (UC-263) (L. P. gas, natural gas and gasoline - high altitude)
10	364 913 R1	BUSHING, piston pin (6)
11	367 408 R11	BEARING, connecting rod (2 halves) (standard) (6)
11	367 632 R11	BEARING, connecting rod (2 halves) (.002" undersize) (6)
11	376 666 R11	BEARING, connecting rod (2 halves) (.010" undersize) (6)
11	376 668 R11	BEARING, connecting rod (2 halves) (.020" undersize) (6)
11	367 631 R11	BEARING, connecting rod (2 halves) (.030" undersize) (6)
11	367 630 R91	BEARING SET, connecting rod (consists of six BEARING, 367 408 R11) (standard)
11	377 285 R91	BEARING SET, connecting rod (consists of six BEARING, 367 632 R11) (.002" undersize)
11	376 665 R91	BEARING SET, connecting rod (consists of six BEARING, 376 666 R11) (.010" undersize)



## ENGINE

REF. NO.	PART NUMBER	DESCRIPTION
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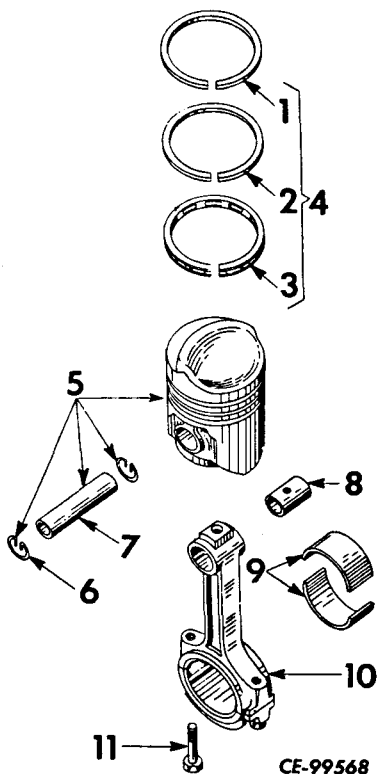
CONNECTING RODS, SLEEVES AND PISTONS - Continued  
(For use w/Sleeved Engines)  
C-221 43021 Up  
C-263 56636 Up

11	376 667 R91	BEARING SET, connecting rod (consists of six BEARING, 376 668 R11) (.020" undersize)
11	372 443 R91	BEARING SET, connecting rod (consists of six BEARING, 367 631 R11) (.030" undersize)
12	367 406 R21	ROD w/two BOLTS, 316 366 R1 and BUSHING, 364 913 R1, con- necting (6)
13	316 366 R1	BOLT, connecting rod (12)

# ENGINE

REF. PART  
NO. NUMBER DESCRIPTION

CONNECTING RODS AND PISTONS  
(For use w/Sleeveless Engines)  
(UC-221 and UC-263)



1	389 747 R1	RING, compression piston (top groove) (standard and .010 o/s)(6)
1	389 748 R1	RING, compression piston (top groove) (.020 o/s) (6)
1	389 749 R1	RING, compression piston (top groove) (.030 o/s) (6)
1	389 750 R1	RING, compression piston (top groove) (.040 o/s) (6)
2	389 751 R1	RING, compression piston (second groove) (standard and .010 o/s)(6)
2	389 752 R1	RING, compression piston (second groove) (.020 o/s) (6)
2	389 753 R1	RING, compression piston (second groove) (.030 o/s) (6)
2	389 754 R1	RING, compression piston (second groove) (.040 o/s) (6)
3	399 441 R1	RING, oil regulating piston (bottom groove) (standard and .010 o/s) (6)
3	400 363 R1	RING, oil regulating piston (bottom groove) (.020 o/s) (6)
3	400 364 R1	RING, oil regulating piston (bottom groove) (.030 o/s) (6)
3	400 365 R1	RING, oil regulating piston (bottom groove) (.040 o/s) (6)

REF. PART  
NO. NUMBER DESCRIPTION

CONNECTING RODS AND PISTONS - Continued  
(For use w/Sleeveless Engines)  
(UC-221 and UC-263)

4	400 366 R91	RING SET, piston (consists of twelve compression and six oil regulating rings) (standard and .010 o/s)
4	400 367 R91	RING SET, piston (consists of twelve compression and six oil regulating rings) (.020 o/s)
4	400 368 R91	RING SET, piston (consists of twelve compression and six oil regulating rings) (.030 o/s)
4	400 369 R91	RING SET, piston (consists of twelve compression and six oil regulating rings) (.040 o/s)
5	388 050 R92	PISTON ASSEMBLY (standard) (UC-221) (6)
5	379 822 R95	PISTON ASSEMBLY (standard) (UC-263) (6)
5	388 051 R92	PISTON ASSEMBLY (.010 o/s) (UC-221) (6)
5	379 823 R95	PISTON ASSEMBLY (.010 o/s) (UC-263) (6)
5	388 052 R92	PISTON ASSEMBLY (.020 o/s) (UC-221) (6)
5	379 824 R95	PISTON ASSEMBLY (.020 o/s) (UC-263) (6)
5	388 053 R92	PISTON ASSEMBLY (.030 o/s) (UC-221) (6)
5	379 825 R95	PISTON ASSEMBLY (.030 o/s) (UC-263) (6)
5	388 054 R92	PISTON ASSEMBLY (.040 o/s) (UC-221) (6)
5	379 826 R95	PISTON ASSEMBLY (.040 o/s) (UC-263) (6)
6	19 517 D	RING, piston pin retainer (12)
7	278 271 R1	PIN, piston (6)
8	364 913 R1	BUSHING, piston pin (6)
9	367 408 R11	BEARING, connecting rod (2 halves) (standard) (6)
9	367 632 R11	BEARING, connecting rod (2 halves) (.002 u/s) (6)
9	376 666 R11	BEARING, connecting rod (2 halves) (.010 u/s) (6)
9	376 668 R11	BEARING, connecting rod (2 halves) (.020 u/s) (6)
9	367 631 R11	BEARING, connecting rod (2 halves) (.030 u/s) (6)
9	367 630 R91	BEARING SET, connecting rod (standard) (consists of six BEARINGS, 367 408 R11)
9	377 285 R91	BEARING SET, connecting rod (.002 u/s) (Consists of six BEARINGS, 367 632 R11)

## ENGINE

REF. NO.	PART NUMBER	DESCRIPTION
CONNECTING RODS AND PISTONS - Continued (For use w/Sleeveless Engines) (UC-221 and UC-263)		
9	376 665 R91	BEARING SET, connecting rod (.010 u/s) (consists of six BEAR- INGS, 376 666 R11)
9	376 667 R91	BEARING SET, connecting rod (.020 u/s) (consists of six BEAR- INGS, 376 668 R11)
9	372 443 R91	BEARING SET, connecting rod (.030 u/s) (consists of six BEAR- INGS, 367 631 R11)
10	367 406 R21	ROD w/two BOLTS, 316 366 R1 and BUSHING, 364 913 R1, connecting (6)
11	316 366 R1	BOLT, connecting rod (12)

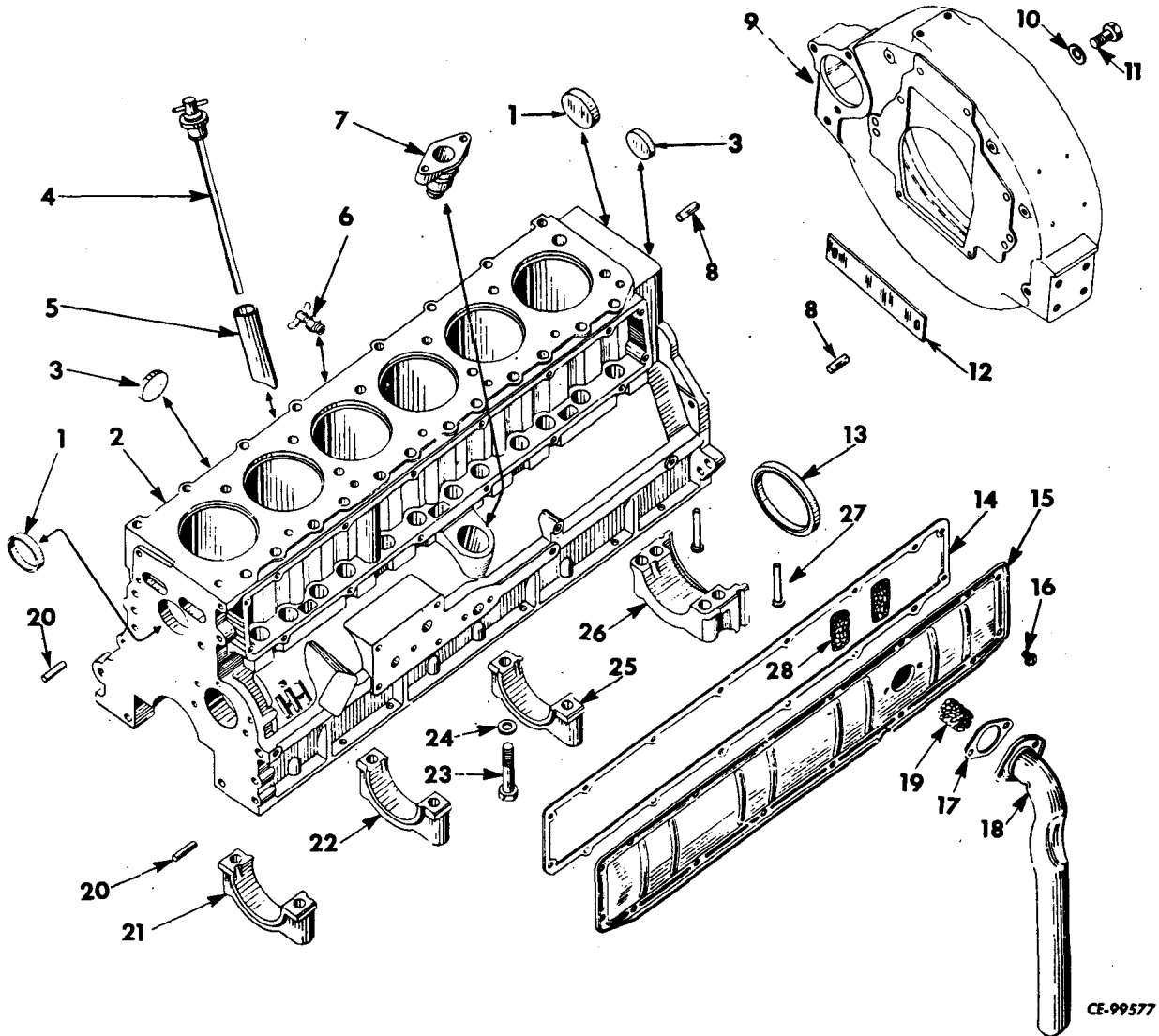
# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION
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## CRANKCASE AND RELATED PARTS (UC-221 and UC-263)

REF. NO.	PART NUMBER	DESCRIPTION
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## CRANKCASE AND RELATED PARTS - Continued (UC-221 and UC-263)



CE-99577

1	20 840 R1	PLUG, core hole (2)
2	402 896 R91	CRANKCASE ASSEMBLY (will work for CRANKCASE ASSY, 367 512 R91) (UC-221) (Composed of -
	1 ADAPTER	367 513 R1
	1 BEARING	70 259 R2
	1 BEARING	70 260 R1
	1 BEARING	70 261 R2
	1 BEARING	70 262 R1
	4 BOLT	19 992 R1
	10 BOLT	70 133 R1
	1 CAP	
	1 CAP	
	1 CAP	
	1 CAP	

1	COCK	103 647
1	COCK	141 615
1	COVER	356 243 R1
§ 1	CRANKCASE	
2	DOWEL	371 699 R2
1	GASKET	532 496 R1
2	PIN	141 285
6	PIN	278 271 R1
§ 6	PISTON	
6	PLUG	379 278 C1
2	PLUG	20 840 R1
12	RETAINER	19 517 D
6	RING	389 747 R1
6	RING	389 751 R1
6	RING	399 441 R1
§ 6	SLEEVE	
1	TUBE	378 102 R1
10	WASHER	58 516 H

§ - Not Furnished Separately

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKCASE AND RELATED PARTS - Continued (UC-221 and UC-263)			CRANKCASE AND RELATED PARTS - Continued (UC-221 and UC-263)		
2	402 897 R92	CRANKCASE ASSEMBLY (will work for CRANKCASE ASSY, 367 512 R91) (UC-263) (Composed of -	6	141 615	COCK, 1/4" BRS Type B, drain (optional w/103 647) (UC-221)
		1 ADAPTER 367 513 R1	6	444 618	PLUG, 1/4" Auto Hex Hd Pipe (UC-263)
		1 BEARING 70 259 R2	7	367 513 R1	ADAPTER, distributor mounting
		1 BEARING 70 260 R1	8	371 699 R2	DOWEL, engine rear support (STD) (2)
		1 BEARING 70 261 R2	8	376 353 R1	DOWEL, engine rear support (.030-o/s) (2)
		1 BEARING 70 262 R1	9	304 440 R2	HOUSING, flywheel (part of ATTACH 318 441 R91)
		4 BOLT 19 992 R1	10	103 323	WASHER, 1/2" lock (6)
		10 BOLT 70 133 R1	11	179 883	SCREW, 1/2 x 1-1/4" Hex Hd. Cap (2)
		1 CAP	12	367 225 R1	SEAL, engine rear support dust (part of ATTACHMENT, 318 441 R91)
		1 CAP		102 637	NUT, 1/2" (4)
		1 CAP		179 814	SCREW, 5/16 x 5/8" hex hd cap (2)
		1 CAP		179 890	SCREW, 1/2 x 2-1/4" hex hd cap (4)
		1 COVER 356 243 R1		103 340	WASHER, 11/32 x 11/16" x 18 ga. (2)
		1 CRANKCASE	13	403 066 R91	SEAL, crankshaft rear oil
		2 DOWEL 371 699 R2	14	369 982 R1	GASKET, push rod cover
		1 GASKET 532 496 R1	15	315 970 R91	COVER, valve push rod
		2 PIN 141 285	16	375 612 R91	SCREW, valve push rod (16)
		6 PIN 278 271 R1	17	369 981 R1	GASKET, breather pipe
		6 PISTON	18	368 429 R21	PIPE, breather
		1 PLUG 444 618		374 587 R91	SCREW w/WASHER, 1/4 x 1/2" slit rd. hd. (2)
		6 PLUG 379 278 C1	19	369 442 R1	ELEMENT, breather pipe (UC-221)
		2 PLUG 20 840 R1	20	141 285	PIN, 1/2 x 1-1/4" dowel, crankcase front plate and cover (2)
		12 RETAINER 19 517 D	21		CAP, crankshaft front bearing (Not Furnished Separately)(order CRANKCASE ASSY. 402 896 R91)
		6 RING 389 747 R1	22		CAP, crankshaft front intermediate (Not Furnished Separately)(order CRANKCASE ASSY. 402 896 R91)
		6 RING 389 751 R1	23	70 133 R1	BOLT, crankshaft bearing cap (10)
		6 RING 399 441 R1	24	58 516 H	WASHER, crankshaft bearing cap (10)
		6 SLEEVE	25		CAP, crankshaft rear bearing intermediate bearing (Not Furnished Separately) (order CRANKCASE ASSY. 402 896 R91)
		1 TUBE 378 120 R1	26		CAP, crankshaft rear bearing (Not Furnished Separately) (order CRANKCASE ASSY. 402 896 R91)
		10 WASHER 58 516 H	27	310 665 R1	PLUG, rear bearing cap filler (2)
	102 637	NUT, 1/2" Hex Hd. (4)			§ - Not Furnished Separately
	444 852	PLUG, 1/8" Auto Hex Soc. Pipe (3)			
	444 782	PLUG, 3/8" Short Sq. Soc. Pipe (2)			
	179 814	SCREW, 5/16 x 5/8" Hex Hd. Cap (2)			
	103 320	WASHER, 5/16" medium lock (2)			
	103 323	WASHER, 1/2" medium lock (4)			
3	379 278 C1	PLUG, core hole (2)			
4	312 051 R91	GAUGE, oil level (for Magneto Ignition) C-221-501 to 43020 C-263-501 to 56635			
4	368 986 R91	GAUGE, oil level (for Distributor Ignition) C-221-501 to 42020 C-263-501 to 56635			
4	387 347 R91	GAUGE, oil level (for Distributor Ignition) C-221-43021 Up C-263-56636 Up			
5	312 052 R1	TUBE, oil filler (for Magneto Ignition) C-221-501 to 43020 C-263-501 to 56635			
5	368 985 R2	TUBE, oil filler (for Distributor Ignition) C-221-501 to 43020 C-263-501 to 56635			
5	378 102 R1	TUBE, oil filler (for distributor Ignition) C-221 43021 Up C-263 56636 Up			
6	103 647	COCK, 1/4" BRS Type C drain (optional w/141 615) (UC-221)			

## ENGINE

REF. NO.	PART NUMBER	DESCRIPTION
CRANKCASE AND RELATED PARTS - Continued (UC-221 and UC-263)		
28	315 849 R1	ELEMENT, breather pipe (UC-263) (2)
318	441 R1	ATTACHMENT, flywheel housing (See NOTES 1 & 3) Consists of - 2 DOWEL 371 699 R2 1 HOUSING 304 440 R2 1 SEAL 367 225 R1)
70	259 R2	BEARING, camshaft (front) (will work for 367 514 R91) (*)
70	260 R1	BEARING, camshaft (intermediate front) (*)
70	261 R2	BEARING, camshaft (intermediate rear) (*)
70	262 R1	BEARING, camshaft (rear) (*)
356	243 R1	COVER, fuel pump pad (used with Hydraulic Pump)
371	699 R2	DOWEL, eng. rear support
46	923 D	DOWEL, eng. rear support
179	890	SCREW, 1/2 x 2-1/4" hex hd cap (4)
102	637	NUT, 1/2" (4)
532	456 R1	GASKET, fuel pump cover (used w/Hydraulic Pump)

(\*) - Also Listed and Illustrated  
with "Camshaft and Related  
Parts"

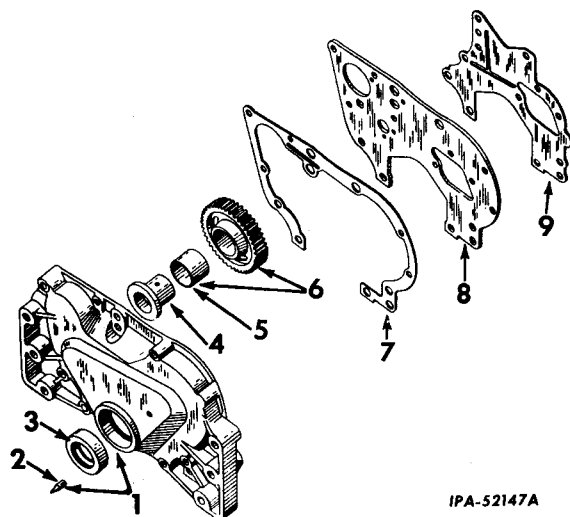
NOTE 1 - Factory Application - Order  
On Machine Order Form

NOTE 3 - Field Application - Order  
through Regular Service Parts  
Channels

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION
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## CRANKCASE FRONT COVER AND IDLER GEAR

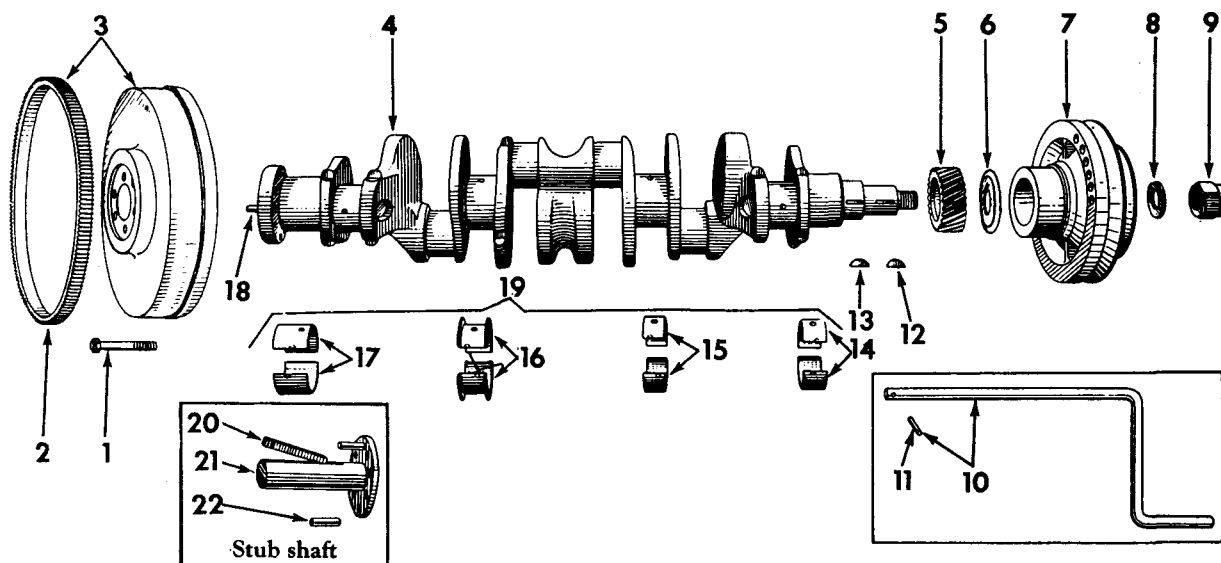


- |   |             |  |
|---|-------------|--|
| 1 | 372 499 R11 | COVER w/POINTER, 367 572 R1<br>crankcase front (not *)                         |
|   | 179 892     | SCREW, 1/2 x 3" hex hd cap (6)   |
|   | 103 323     | WASHER, 1/2" lock (6)  |
| 1 | 312 505 R31 | COVER w/POINTER, 367 572 R1<br>crankcase front (*)                             |
|   | 16 081 R1   | BOLT, 1/2 x 3-1/8" (6)   |
|   | 103 028     | NUT, 1/2NF (3)   |
|   | 179 883     | SCREW, 1/2 x 1-1/4" hex hd cap   |
|   | 103 323     | WASHER, 1/2" lock  |
| 2 | 367 572 R1  | POINTER, timing  |
| 3 | 357 672 R91 | OIL SEAL, crankshaft used w/<br>DAMPER, 372 203 R2)                            |
| 3 | 391 976 R91 | OIL SEAL, crankshaft (used w/<br>PULLEY, 371 574 R2 or DAMPER,<br>338 952 R91) |
| 4 | 530 973 R1  | HUB, idler gear  |
|   | 179 887     | SCREW, 1/2 x 2-1/4" hex hd cap   |
|   | 614 090 R1  | WASHER, 17/32 x 2" x 11 ga.  |
| 5 | 398 034 R1  | BUSHING, idler gear  |
| 6 | 398 032 R1  | GEAR w/BUSHING, 398 034 R1, idler  |
| 7 | 312 506 R1  | GASKET, crankcase front cover (*)  |
|   | 367 574 R1  | GASKET, crankcase front cover<br>(not *)                                       |
| 8 | 316 155 R11 | PLATE, crankcase front (*)   |
| 8 | 367 524 R2  | PLATE, crankcase front (not *)   |
|   | 179 836     | SCREW, 3/8 x 1" hex hd cap (6)   |
|   | 103 321     | WASHER, 3/8" lock (6)  |
| 9 | 316 156 R1  | GASKET, crankcase front plate (*)  |
| 9 | 398 024 R1  | GASKET, crankcase front plate<br>(not *)                                       |
|   | 278 269 R1  | COVER, governor gear (*)   |
|   | 179 814     | SCREW, 5/16 x 5/8" hex hd<br>cap (5)   |
|   | 103 320     | WASHER, 5/16" lock (5)   |
|   | 278 270 R1  | GASKET, governor gear cover (*)  |

(\*) - Used with Hydraulic Pump

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKSHAFT, FLYWHEEL, BEARINGS, STUB SHAFT AND STARTING CRANK			CRANKSHAFT, FLYWHEEL, BEARINGS, STUB SHAFT AND STARTING CRANK - Continued		



1	19 466 R1	BOLT, flywheel to crankshaft (Used with ATTACHMENTS, 305 189 R91, 312 571 R91 and 305 190 R91) (6)			1 BEARING 382 357 R91 SET § 1 CRANKSHAFT 1 PIN 82 970 R1 )
1	9 409 049	BOLT, flywheel to crankshaft (Used with flywheel ATTACHMENT, 312 729 R91)	4	367 269 R91	CRANKSHAFT ASSY (standard) (UC-263) C-263 501 to 36693 (Composed of - 1 BEARING 367 630 R91 SET 1 BEARING 382 357 R91 SET § 1 CRANKSHAFT 1 PIN 82 970 R1 )
2	372 568 R1	GEAR, flywheel ring (159T)			
3	312 563 R92	FLYWHEEL w/GEAR, 372 568 R1 (Used with flywheel ATTACHMENT, 312 571 R91)			
3	312 728 R11	FLYWHEEL w/GEAR, 372 568 R1 (Used with flywheel ATTACHMENT, 312 729 R91)	4	382 356 R91	CRANKSHAFT ASSY (standard) (UC-263) C-263 36694 Up (Composed of - 1 BEARING 367 630 R91 SET 1 BEARING 367 630 R91 SET § 1 CRANKSHAFT 1 PIN 82 970 R1 )
3	318 053 R91	FLYWHEEL w/GEAR, 372 568 R1 (Used with flywheel ATTACHMENT, 318 051 R91)			
3	372 567 R91	FLYWHEEL w/GEAR, 372 568 R1 (Used with flywheel ATTACHMENT, 305 189 R91)			
3	372 569 R91	FLYWHEEL w/GEAR, 372 568 R1 (Used with ATTACHMENT, 305 190 305 190 R91)	4	367 270 R92	PACKAGE, crankshaft w/BEARINGS, field service (renewal) (undersize) (UC-221) (Consists of six connecting rod BEARINGS, four crankshaft BEARINGS, CRANKSHAFT and PIN, 82 970 R1)
4	367 268 R91	CRANKSHAFT ASSY (standard) (UC-221) C-221 501 to 35093 (Composed of - 1 BEARING 367 630 R91 SET 1 BEARING 367 275 R91 SET § 1 CRANKSHAFT 1 PIN 82 970 R1)	4	367 271 R92	PACKAGE, crankshaft w/BEARINGS, field service (renewal) (undersize) (UC-263) (Consists of six connecting rod BEARINGS, four crankshaft BEARINGS, CRANKSHAFT and PIN, 82 970 R1)
4	382 355 R91	CRANKSHAFT ASSY (standard) (UC-221) C-221 35094 Up (Composed of - 1 BEARING 367 630 R91 SET	5	367 272 R1	GEAR, crankshaft
			6	71 763 R2	SLINGER, crankshaft oil

§ - Not Furnished Separately



# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKSHAFT, FLYWHEEL, BEARINGS, STUB SHAFT AND STARTING CRANK - Continued			CRANKSHAFT, FLYWHEEL, BEARINGS, STUB SHAFT AND STARTING CRANK - Continued		
7	371 573 R2	PULLEY, fan drive (UC-221)	16	332 270 R91	BEARING, crankshaft intermediate (2 halves) (.030" undersize) C-221 35094 Up C-263 36694 Up
7	338 949 R91	DAMPER (standard on UC-263)	17	367 285 R91	BEARING, crankshaft rear (2 halves) (standard)
8	70 109 R1	WASHER, starting crank nut	17	367 309 R91	BEARING, crankshaft rear (2 halves) (.002" undersize)
9	219 755	NUT, crankshaft	17	376 679 R91	BEARING, crankshaft rear (2 halves) (.010" Undersize)
10	271 705 R91	CRANK w/PIN, 15 204 D, starting	17	376 692 R91	BEARING, crankshaft rear (2 halves) (.020" undersize)
11	15 204 D	PIN, starting crank	17	367 297 R91	BEARING, crankshaft rear (2 halves) (.030" undersize)
12	117 984	KEY, 5/16 x 1-3/8" (Woodruff No. 23)	18	82 970 R1	PIN, flywheel to crankshaft dowel
13	103 462	KEY, 3/16 x 1" (Woodruff No. 13) crankshaft gear)	19	367 275 R91	BEARING SET, crankshaft C-221 501 to 35093 C-263 501 to 36693
14	367 276 R91	BEARING, crankshaft front (2 halves) (standard)	19	382 357 R91	BEARING SET, crankshaft C-221 35094 Up C-263 36694 Up
14	367 300 R91	BEARING, crankshaft front (2 halves) (.002" undersize)	19	382 359 R91	BEARING SET, crankshaft (.002" undersize)
14	376 670 R91	BEARING, crankshaft front (2 halves)(.010" undersize)	19	382 360 R91	BEARING SET, crankshaft (.010" undersize)
14	376 683 R91	BEARING, crankshaft front (2 halves)(.020" undersize)	19	382 361 R91	BEARING SET, crankshaft (.020" undersize)
14	367 288 R91	BEARING, crankshaft front (2 halves)(.030" undersize)	19	372 444 R91	BEARING SET, crankshaft (.030" undersize) C-221 501 to 35093 C-263 501 to 36693
15	367 279 R91	BEARING, crankshaft intermediate front (2 halves) (standard)	19	382 358 R91	BEARING SET, crankshaft (.030" undersize) C-221 35094 Up C-263 36694 Up
15	367 303 R91	BEARING, crankshaft intermediate front (2 halves) (.002" undersize)	312 729 R91	ATTACHMENT, flywheel (for use with light duty power take-off ATTACHMENTS, 273 020 R91 and 273 021 R91 and with 8" single plate overcenter drive ring type clutch (Rockford or Twin Disc)(UC-221) (see NOTES 1 and 3)(Consists of six BOLT, 9 409 049 and one FLY-WHEEL, 312 728 R11)	
15	376 673 R91	BEARING, crankshaft intermediate front (2 halves) (.010" undersize)	305 189 R91	ATTACHMENT, flywheel (for use with light duty power take-off ATTACHMENTS, 273 017 R91 and 273 018 R91 and with 10" single plate overcenter drive ring type clutch (Rockford or Twin-Disc) (UC-263) (see NOTES 1 and 3) (Consists of six BOLT, 19 466 R1 and one FLYWHEEL, 372 567 R91)	
15	367 686 R91	BEARING, crankshaft intermediate front (2 halves) (.020" undersize)			
15	367 291 R91	BEARING, crankshaft intermediate front (2 halves) (.030" undersize)			
16	367 282 R91	BEARING, crankshaft intermediate rear (standard) (2 halves) C-221 501 to 35093 C-263 501 to 36693			
16	332 267 R91	BEARING, crankshaft intermediate rear (standard) (2 halves) C-221 35094 Up C-263 36694 Up			
16	367 306 R91	BEARING, crankshaft intermediate (.002" undersize) (2 halves) C-221 501 to 35093 C-263 501 to 36693			
16	332 273 R91	BEARING, crankshaft intermediate (.002" undersize) (2 halves) C-221 35094 Up C-263 36694 Up			
16	332 276 R91	BEARING, crankshaft intermediate rear (2 halves) (.010" undersize)			
16	332 279 R91	BEARING, crankshaft intermediate rear (2 halves) (.020" undersize)			
16	367 294 R91	BEARING, crankshaft intermediate (2 halves) (.030" undersize) C-221 501 to 35093 C-263 501 to 36693			

NOTE 1 - Factory Application - Order On Machine Order Form.  
NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

## ENGINE

REF. NO.	PART NUMBER	DESCRIPTION
CRANKSHAFT, FLYWHEEL, BEARINGS, STUB SHAFT AND STARTING CRANK - Continued		
318 051 R91	ATTACHMENT, flywheel (for use with Funk Model TRC-D16A-T9 Torque Converter) (see NOTES 1 and 3) (Consists of - 1 BUSHING 318 049 R1 1 SPACER 312 562 R1 8 SPACER 318 050 R1 1 FLYWHEEL 318 053 R91)	
312 571 R91	ATTACHMENT, flywheel (for use with 12" clutch and controls ATTACHMENT, 312 837 R91 and transmission ATTACHMENT, 312 838 R91 or 312 839 R91)(see NOTES 1 and 3) (Consists of six BOLT, 19 466 R1 one FLYWHEEL, 312 563 R91 and one SPACER, 312 562 R2)	
305 190 R91	ATTACHMENT, flywheel (for use with 11-1/2" single plate over-center drive ring type clutch (Rockford or Twin-Disc)(UC-263) (See NOTES 1 and 3) (Consists of six BOLTS, 19 466 R1 and one FLYWHEEL, 372 569 R91)	
318 049 R1	BUSHING, torque converter pilot (use with ATTACHMENT, 318 051 R91)	
312 562 R2	SPACER, cranking motor (used with ATTACHMENTS, 318 051 R91 and 312 571 R91) SCREW, 3/8 x 2" hex hd cap (3) WASHER, 3/8" lock (3)	
318 050 R1	SPACER, mounting strap (used with ATTACHMENT, 318 051 R91) (8)	

### DIRECT CONNECTED STUB SHAFT ATTACHMENT

305 698 R91	ATTACHMENT, stub shaft (direct connected) (see NOTES 1 and 3)	
20	29 308 D	KEY, belt pulley
21	305 699 R91 18 646 R1	SHAFT w/DOWEL, 305 700 R1 stub BOLT, 7/16NF x 2-1/4" (typeAA hex lock) (6)
22	305 700 R1	DOWEL, stub shaft

NOTE 1 - Factory Application -  
Order On Machine Order  
Form.

NOTE 3 - Field Application - Order  
Through Regular Service  
Parts Channels.

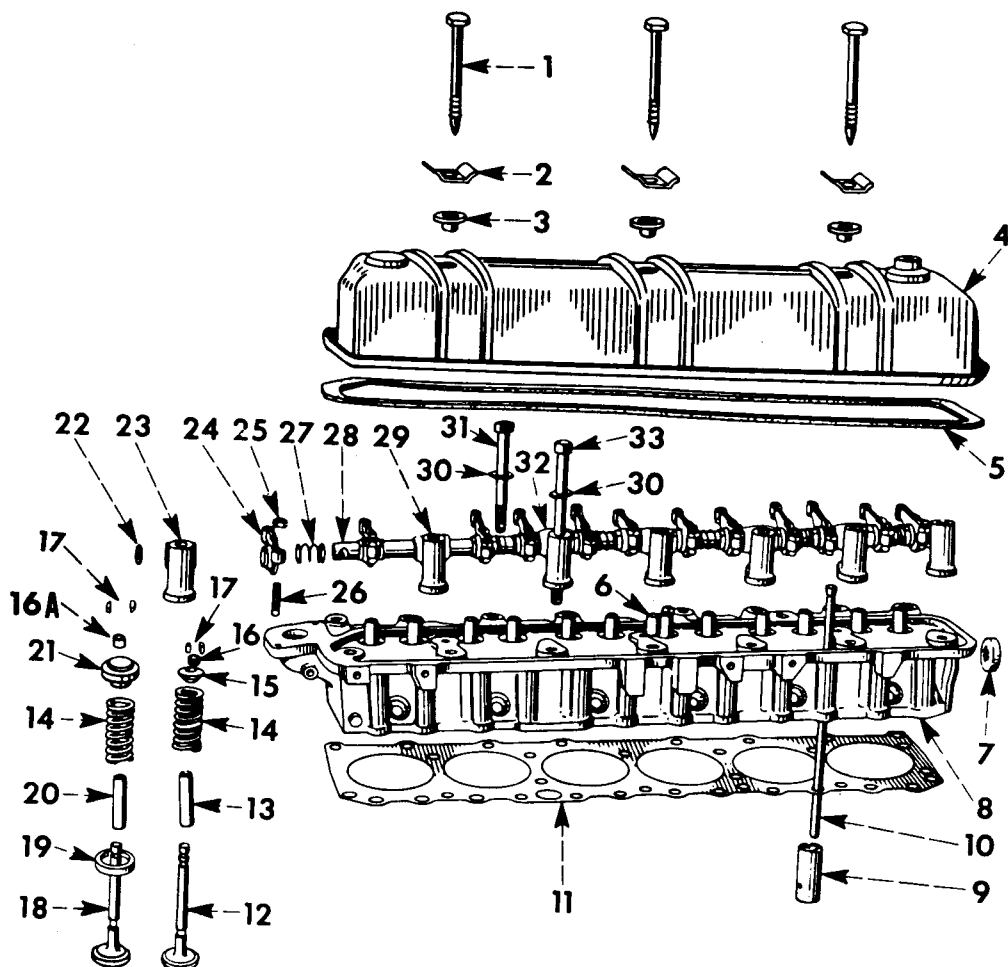
# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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CYLINDER HEAD AND RELATED PARTS

CYLINDER HEAD AND RELATED PARTS - Continued



IPA-67168 B

- |   |                                 |  |
|---|---------------------------------|--|
| 1 | 168 144 R1                      | BOLT, valve cover (3)  |
| 2 | 370 208 R1                      | STIFFENER, valve cover (3)   |
| 3 | 164 420 R1<br>Q 399             | GROMMET, valve cover (3)<br>WASHER, 11/32 x 1" x 16 ga.<br>flat (3)  |
| 4 | 378 617 R91<br>103 866          | COVER w/PLUG, 103 866 valve<br>PLUG, 1/4" sq-hd pipe   |
| 5 | 369 983 R2                      | GASKET, valve cover  |
| 6 | 69 500 R1                       | DOWEL, valve lever shaft inter-<br>mediate No. 2, No. 4 and No. 6<br>bracket (3)   |
| 7 | 70 128 R1<br>444 782<br>179 812 | PLUG, core hole<br>PLUG, 3/8" Auto-sq-soc. pipe slt.<br>SCREW, 5/16 x 1/2" hex hd cap(2)   |
| 8 | 372 615 R94                     | HEAD ASSY, cylinder (will work for<br>367 189 R93)<br>C-221 501 to 43020<br>C-263 501 to 56635<br>(Composed of -<br>1 HEAD 373 423 R21<br>24 KEY 41 339 D<br>6 RETAINER 151 167 R3 |

- |         |                                  |  |
|---------|----------------------------------|--|
| 6       | ROTO-COIL 375 604 R91            |  |
| 12      | SEAL 866 834 R1                  |  |
| 12      | SPRING 367 192 R1                |  |
| 6       | VALVE 234 275 R1                 |  |
| 6       | VALVE 372 699 R2 )               |  |
| 8       | 373 423 R21                      | HEAD ASSY, cylinder<br>C-221 501 to 43020<br>C-263 501 to 56635<br>(Composed of -<br>§ 1 HEAD<br>12 GUIDE 237 248 R1<br>1 PLUG 70 128 R1<br>1 PLUG 126 045<br>1 PLUG 103 874<br>6 SEAT 126 373 R1 )                      |
| 179 812 | SCREW, 5/16 x 1/2" hex hd cap(2) |  |
| 8       | 383 665 R95                      | HEAD w/o VALVE ASSY, cylinder<br>(will work for cylinder head<br>w/VALVES 382 098 R92)<br>C-221 43021 Up<br>C-263 56636 Up<br>(Composed of -<br>6 GUIDE 237 248 R1<br>6 GUIDE 535 229 R1<br>§ - Not Furnished Separately |

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CYLINDER HEAD AND RELATED PARTS - Continued			CYLINDER HEAD AND RELATED PARTS - Continued		
		§ 1 HEAD	26	16 067 DA	SCREW, valve lever adjusting (12)
		1 PLUG 70 128 R1	27	35 619 H	SPRING, valve lever (6)
		6 SEAT 112 508 R1)	28	76 953 R3	SHAFT, valve lever (2)
	179 852	SCREW, 7/16 x 1/2" hex hd cap (3)		17 244 R1	PIN, 5/16 x 1-1/4" roll (optional with 19 790 R1) (2)
9	75 524 R3	TAPPET, valve (optional w/TAPPET, 911 776 R2) (12)		19 790 R1	PIN, 5/16 x 1-1/4" roll (optional with 17 244 R1) (2)
9	911 776 R2	TAPPET, valve (optional w/TAPPET, 75 524 R3) (12)	29	164 423 R11	BRACKET w/DOWEL, 69 500 R1, valve lever shaft intermediate No. 2, No. 4 and No. 6 (3)
10	164 436 R91	ROD, valve push (12)	30	58 516 H	WASHER, cylinder head bolt (15)
11	164 418 R2	GASKET, cylinder head	31	69 722 R1	BOLT, cylinder head (short) (8)
12	234 275 R1	VALVE, intake (together with 866 834 R1 will work for 127 201 R1) (6) C-221 501 to 43020 (6) C-263 501 to 56635	32	164 425 R1	BRACKET, valve lever shaft, intermediate No. 3 and No. 5 (2)
12	234 276 R1	VALVE, intake (6) C-221 43021 Up (6) C-263 56636 Up	33	367 190 R1	BOLT, cylinder head (long) (7)
13	237 248 R1	GUIDE, intake valve stem (6) C-221 501 to 53643 (6) C-263 501 to 95245		444 782	PLUG, 3/8" sq-soc pipe
13	535 229 R1	GUIDE, intake valve stem (6) C-221 53644 Up (6) C-263 95246 Up		444 664	PLUG, 1/2" sq-soc pipe
14	367 192 R1	SPRING, valve (12)		111 024 R1	SEAL, intake valve stem (used with VALVE, 127 201 R1) (6)
15	151 167 R3	RETAINER, valve spring (6)			
16	866 834 R1	SEAL, intake valve stem (6) C-221 501 to 53643 (6) C-263 501 to 95245			
16	535 166 R1	SEAL, intake valve stem (6) C-221 53644 Up (6) C-263 95246 Up			
16A	866 834 R1	SEAL, exhaust valve stem (6)			
17	41 339 D	KEY, valve spring retainer (24)			
18	367 191 R1	VALVE, exhaust (gasoline) (6)			
18	372 699 R3	VALVE, exhaust (Stellite faced) (L.P. gas) (see NOTE) (6)			
19	112 508 R1	SEAT, exhaust valve (6)			
19	126 231 R1	SEAT, exhaust valve (.015" over-size) (6)			
19	83 488 R2	SEAT, exhaust valve (.030" over-size) (6)			
20	237 248 R1	GUIDE, exhaust valve stem (6)			
21	375 604 R91	ROTOCOIL, exhaust valve (gasoline) (6)			
21	76 950 R2	RETAINER, valve spring (L.P. gas and natural gas) (6)			
22	109 544 R1	PLUG, rocker arm (2)			
23	164 422 R1	BRACKET, valve lever shaft front and rear (2)			
24	164 432 R91	LEVER w/SCREW, 16 067 DA and NUT, 133 093 R1, valve (12)			
25	133 093 R1	NUT, valve lever adjusting screw (12).			

§ - Not Furnished Separately

NOTE - Also Available For Service On Gasoline Engines If Desired.

# ENGINE

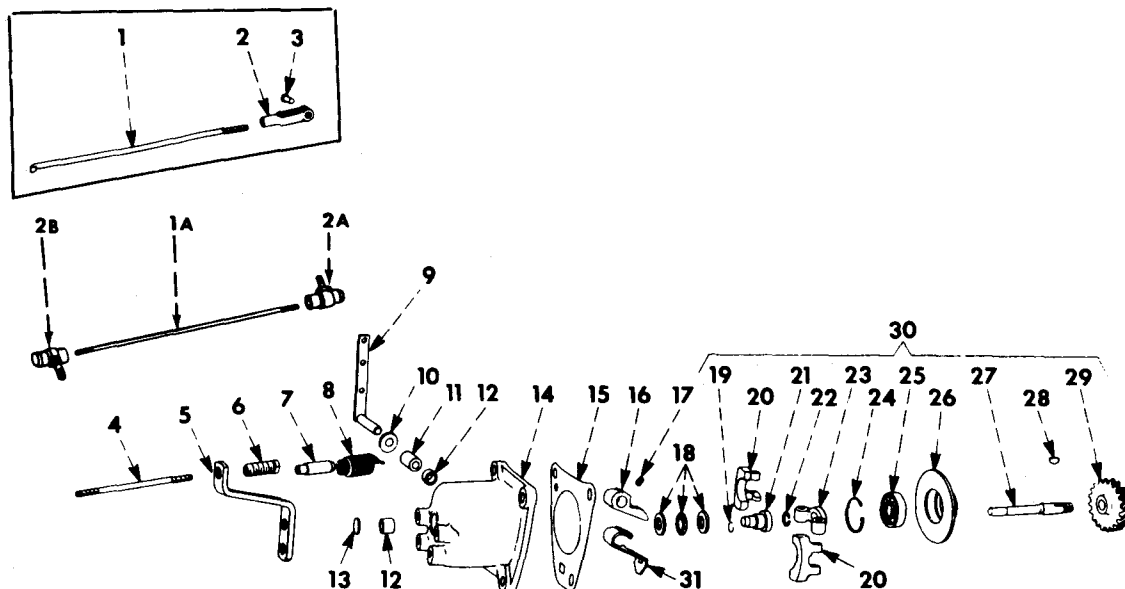
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
INTAKE AND EXHAUST MANIFOLDS			INTAKE AND EXHAUST MANIFOLDS - Continued		
<p>L. P. Gas</p> <p>IPA-52144A</p>			7	82 959 R1	SHAFT, manifold heat control valve
			8	85 699 R1	WEIGHT, manifold heat control
			9	318 445 R91	MANIFOLD ASSY, intake (gasoline)(*) C-221 501 to 43020 C-263 501 to 56635 (Composed of - 2 BUSHING 69 443 R1 1 PLUG 445 671 1 PIN 141 159 1 SHAFT 82 959 R1 1 SPRING 82 958 R2 2 STUD 57 714 D 1 VALVE 85 700 R1 1 WEIGHT 85 699 R1 )
			9	367 261 R11	MANIFOLD ASSY, intake (gasoline) (not *) C-221 501 to 43020 C-263 501 to 56635 (Composed of - 2 BUSHING 69 443 R1 1 PLUG 445 671 1 PIN 141 159 1 SHAFT 82 959 R1 1 SPRING 82 958 R2 2 STUD 57 714 D 1 VALVE 85 700 R1 1 WEIGHT 85 699 R1 )
			10	277 016 R1	STUD, carburetor (liquefied petroleum gas) (natural gas)(combination natural gas and gasoline) (2)
			10	12 215 D	STUD, carburetor (2)
			10	57 714 D	STUD, carburetor (part of carburetor adapter attachment) 312 057 R91)(2)
			11	82 958 R2	SPRING, thermostat heat control valve
			12	141 159	PIN, 3/16 x 1" dowel
			13		PIPE, exhaust (2" standard black steel pipe 13" lg. obtain locally)
			14	371 098 R1	COVER, exhaust manifold (L. P. gas) (natural gas) (combination natural gas and gasoline) 102 635 NUT, 3/8" (4) 186 282 SCREW, 3/8 x 3-1/4" hex hd cap (4)
			15	371 097 R11	MANIFOLD w/PLUG, intake (L. P. gas) (combination natural gas and gasoline) (for use w/sleeved engines)
			15	383 377 R11	MANIFOLD w/PLUG, intake (natural gas and LPG) (for use w/sleeveless engines)
			445 671		PLUG, 1/8" sq hd C.I. PIPE (optional with 445 864)
			445 864		PLUG, 1/8" sq hd (optional with 445 671)
			107 317		PLUG, exhaust manifold drain hole
1	400 878 R1	GASKET, intake and exhaust manifold	(*) - For Use with Heavy Duty Magneto.		
2	368 550 R11	MANIFOLD w/PLUG, 103 317, exhaust PIN, 3/16 x 1/2" taper groove SCREW, 3/8 x 3" hex hd cap (4) SCREW, 3/8 x 1-1/4" Hex hd cap (6) SCREW, 3/8 x 1-1/2" hex hd cap (2) WASHER, 13/32 x 7/8" x 7 ga. (8)	NOTE 1 - Factory Application - Order On Machine Order Form.		
3	85 868 R1	GASKET, intake to exhaust manifold	NOTE 3 - Field Application - Order Through Regular Service Parts Channels.		
4	98 573 HA	PILOT, intake manifold (2) C-221 501 to 43020 (2) C-263 501 to 566 35			
4	138 733 R1	PILOT, intake manifold (2) C-221 43021 Up (2) C-263 56636 Up			
5	85 700 R1	VALVE, manifold heat control			
6	69 443 R1	BUSHING, manifold heat control (2)			

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GOVERNOR AND RELATED PARTS  
(I. H.) (For use with distributor ignition)

GOVERNOR AND RELATED PARTS - Continued  
(I. H.) (For use with distributor ignition)



CE-87606 A

1	368 335 R1 137 130	ROD, governor to carburetor PIN, 1/16 x 7/16" cotter C-221 501 to 48022 C-263 501 to 77319	8	376 592 R2	SPRING, governor (1500 to 1800 RPM when used w/GOVERNOR ASSY, 612 320 C91) (2000 to 2200 RPM when used w/ATTACHMENT, 612 321 C91) C-221 * Up C-263 * Up
1A	306 013 R1 103 024 103 319	ROD, governor to carburetor NUT, 1/4" (3) WASHER, 1/4" lock (2) C-221 48023 Up C-263 77320 Up	8	367 739 R2	SPRING, governor (2000 to 2200 RPM) (furnished as part of ATTACHMENT, 612 321 C91) (used w/GOVERNOR, 376 589 C91) C-221 501 to * C-263 501 to *
2	104 036 103 024	FORK, governor to carburetor rod NUT, 1/4" C-221 501 to 48022 C-263 501 to 77319	9	367 656 R12	LEVER w/ROCKSHAFT
2A	276 835 R91	JOINT, 1/4" C-Z ball C-221 48023 Up C-263 77320 Up	10	361 123 R91	OIL SEAL, governor rockshaft
2B	304 164 R91	JOINT, 1/4" snap-in ball C-221 48023 Up C-263 77320 Up	11	369 593 R1	BEARING, governor
3	137 130	PIN, 1/4 x 51/64" rod end (governor to carburetor rod fork) PIN, 1/16 x 7/16" cotter C-221 501 to 48022 C-263 501 to 77319	12	369 594 R1	BEARING, governor (2)
4	367 659 R1 103 024	ROD, governor spring retainer NUT, 1/4"NF	13	172 530	PLUG, 11/16" type No. 1 expansion
5	367 742 R1 179 818 103 320	BRACKET, governor spring SCREW, 5/16 x 1" hex hd cap (2) WASHER, 5/16" lock (2)	14	376 590 R11	HOUSING ASSY, governor (used w/ GOVERNOR ASSY, 376 589 R92 and 612 320 C91) (Composed of - 2 BEARING 369 594 R1 1 BEARING 369 593 R1 § 1 HOUSING 1 PLUG 172 530 1 OIL SEAL 361 123 R91 )
6	367 660 R1 114 496	ADJUSTER, governor spring NUT, 1/2"NF jam			
7	367 740 R1	RETAINER, governor spring			

\* - Serial No. Not Available

§ - Not Furnished Separately

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GOVERNOR AND RELATED PARTS - Continued (I. H.) (For use with distributor ignition)			GOVERNOR AND RELATED PARTS - Continued (I. H.) (For use with distributor ignition)		
14	367 651 R21	HOUSING ASSY, governor (used w/ GOVERNOR ASSY, 372 708 R93) (Composed of - 2 BEARING 369 594 R1 1 BEARING 369 593 R1 § 1 HOUSING 1 PLUG 172 530 1 OIL SEAL 361 123 R91)	372 708 R93		GOVERNOR ASSY (order 376 589 R92) C-221 501 to 48022 C-263 501 to 77319
	179 843	SCREW, 3/8 x 1-1/2" hex hd cap (3)	376 589 R92		GOVERNOR ASSY C-221 48023 Up C-263 77320 Up (Composed of - 1 BEARING 393 405 R1 1 FORK 367 653 R1 1 GEAR w/ WEIGHT 368 939 R93 1 HOUSING 376 590 R11 1 LEVER 367 656 R12 1 SCREW 368 938 R1 1 SLEEVE 387 878 R1 1 SPRING 374 795 R1 )
	103 321	WASHER, 3/8" lock (3)			
	181 319	SCREW, 1/4NF x 1-1/2" slt. rd. hd. machine			
	114 492	NUT, 1/4"NF jam			
15	367 669 R1	GASKET, governor housing			
16	367 653 R1	FORK, governor thrust			
17	368 938 R1	SCREW, governor thrust fork set	612 320 C91		GOVERNOR ASSY (furnished as part of ATTACHMENT, 612 319 C91) (Composed of - 1 BEARING 393 405 R91 1 FORK 367 653 R1 1 GEAR & WEIGHT 378 128 R92 1 HOUSING 376 590 R11 1 LEVER 367 656 R12 1 SCREW SET 368 938 R1 368 1 SLEEVE 387 878 R1 1 SPRING 374 795 R1 )
18	43 481 D	BALL BEARING, governor thrust C-221 501 to 19944 C-263 501 to 19080			
18	393 405 R91	BALL BEARING, governor thrust (together w/SLEEVE, 387 878 R1 will work for 374 794 R91) C-221 19945 Up C-263 19081 Up			
19	251 460 R1	RING, governor sleeve stop C-221 501 to 39301 C-263 501 to 53276	612 319 C91		ATTACHMENT, mechanical governor (Consists of GOVERNOR ASSY, 612 320 C91 and SPRING, 376 592 R2) (w/ or w/o Hydraulic Pump) (1500 to 1800 RPM) (10% regulation wide open throttle) (5% regulation 3/4 load) (See NOTES 1 and 3)
20	378 129 R1	WEIGHT, governor (2)(used w/ GOVERNOR, 612 320 C91)	612 321 C91		ATTACHMENT, mechanical governor (Consists of SPRING 376 592 R2) (w/ or w/o Hydraulic Pump)(2000 to 2200 RPM) (10% regulation wide open throttle) (5% regulation 3/4 load) (See NOTES 1 and 3)
20	367 741 R1	WEIGHT, governor (2) (used w/ GOVERNOR, 372 708 R93 or 376 589 R92)			
	17 053 R1	PIN, 1/4 x 3/8" Esna roll (2)			
21	387 878 R1	SLEEVE, governor thrust (together with BALL BEARING, 393 405 R91 will work for 367 668 R2)	19 983 R1		NUT, nylon (Used on Gasoline engines equipped w/Hydraulic Pump)
22	369 477 R1	RING, snap	376 591 R1		TUBE, governor lubrication (Use on Gasoline engines equipped w/ Hydraulic Pump)
23	367 726 R1	CARRIER, governor weight			
24	281 907 C1	RING, governor shaft bearing snap	386 010 R91		PACKAGE, governor field service (use w/GOVERNOR, 376 589 R92) (Composed of - 1 BEARING 369 593 R1 2 BEARING 369 594 R1 1 BEARING ST 552 1 BEARING 393 405 R91 1 FORK 367 653 R1 1 GASKET 367 656 R12 1 LEVER 367 656 R12 1 PLUG 172 530 2 PIN 17 053 R1 1 RING 281 907 C1 1 SCREW 368 938 R1 1 SLEEVE 387 878 R1 1 SPRING 374 795 R1 1 SEAL 361 123 R91 2 WEIGHT 367 741 R1 )
25	ST 552	BALL BEARING, governor shaft			
26	367 666 R1	RETAINER, governor bearing			
27	367 665 R1	SHAFT, governor			
28	452 560	KEY, governor gear (Woodruff No. 211)			
29	367 664 R1 272 614	GEAR, governor NUT, 7/16" lock (Type LLJ)			
30	368 939 R93	GEAR w/WEIGHT ASSY, governor (Part of GOVERNOR ASSY, 372 708 R93 and 376 589 R92)			
30	378 128 R92	GEAR w/WEIGHT ASSY, governor (Part of GOVERNOR ASSY, 612 320 C91)			
31	374 795 R1	SPRING, bumper			§ - Not Furnished Separately
	32 468 H	BODY, elbow (Used on Gasoline engines equipped w/Hydraulic Pump)			NOTE 1 - Factory Application Order On Machine Order Form. NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

## ENGINE

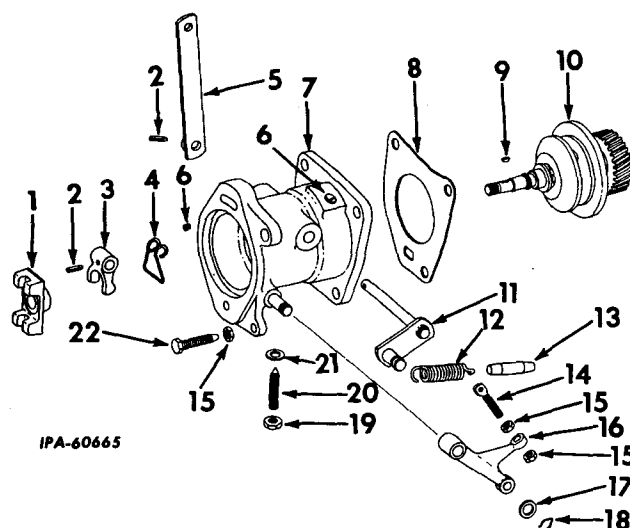
REF. NO.	PART NUMBER	DESCRIPTION
GOVERNOR AND RELATED PARTS - Continued (I. H. ) (For use with distributor ignition)		
444 852		PLUG, 1/8 Auto hex. soc. hd. drain (optional w/444 853 or 444 854) (used w/GOVERNOR ASSY, 376 589 R92 and 612 320 C91)
444 854		PLUG, 1/8 Auto hex. soc. hd drain (optional w/444 852 or 444 853) (used w/GOVERNOR ASSY, 376 589 R92 and 612 320 C91)
444 853		PLUG, 1/8 Auto hex. soc. hd. drain (optional w/444 852 or 444 854) (used w/GOVERNOR ASSY, 376 589 R92 and 612 320 C91)



# ENGINE

REF. PART  
NO. NUMBER DESCRIPTION

## MECHANICAL GOVERNOR (Novi)



FOR USE WITH MAGNETO IGNITION  
C-221 501 to 43020  
C-263 501 to 56635

- A Service parts for mechanical governor  
For use with medium duty magneto  
ignition on gasoline, natural gas,  
LPG and combination gas - gasoline  
For use with heavy duty magneto  
ignition on natural gas, LPG and  
combination gas - gasoline  
Gasoline  
1800 RPM to 2400 RPM - 10%  
regulation  
Natural Gas, LPG and combination  
gas - gasoline  
1800 RPM to 2200 RPM - 10%  
regulation  
2400 RPM - 5% and 10% regulation
- B Service parts for mechanical governor  
For use with heavy duty magneto  
ignition on gasoline  
1800 RPM to 2400 RPM - 10%  
regulation
- C Service parts for mechanical governor  
For use with medium duty magneto  
ignition on gasoline, natural gas,  
LPG and combination gas-gasoline  
For use with heavy duty magneto  
ignition on natural gas, LPG and  
combination gas-gasoline  
1200 RPM to 1600 RPM - 10%  
regulation  
1800 RPM - 5% regulation  
Natural gas, LPG and combination  
gas - gasoline  
1200 RPM and 1400 RPM - 10%  
regulation  
1600 RPM - 5% and 10% regulation  
1800 RPM - 5% regulation
- D Service parts for mechanical governor  
For use with medium duty magneto  
ignition  
Gasoline  
2400 RPM - 5% regulation

REF. PART  
NO. NUMBER DESCRIPTION

## MECHANICAL GOVERNOR - Continued (Novi)

FOR USE WITH MAGNETO IGNITION -  
Continued

- E Service parts for mechanical governor  
For use with heavy duty magneto  
ignition  
Gasoline  
1200 RPM to 1600 RPM - 10%  
regulation  
1800 RPM - 5% regulation
- F Service parts for mechanical governor  
For use with heavy duty magneto  
ignition  
Gasoline  
2400 RPM - 5% regulation
- G FOR USE WITH DISTRIBUTOR  
IGNITION  
Service parts for mechanical governor  
Not used with hydraulic pump  
Gasoline  
1800 RPM to 2400 RPM - 10%  
regulation  
Natural gas, LPG and combination  
gas - gasoline  
1800 RPM to 2200 RPM - 10%  
regulation  
2400 RPM - 5% and 10% regulation
- H Service parts for mechanical governor  
For use with hydraulic pump  
Gasoline  
1800 RPM to 2400 RPM - 10%  
regulation
- J Service parts for mechanical governor  
Not used with hydraulic pump  
Gasoline  
1200 RPM to 1600 RPM - 10%  
regulation  
1800 RPM - 5% regulation  
Natural gas, LPG and combination  
gas - gasoline  
1200 RPM and 1400 RPM - 10%  
regulation  
1600 RPM - 5% and 10% regulation  
1800 RPM - 5% regulation
- K Service parts for mechanical governor  
For use with hydraulic pump  
Gasoline  
1200 RPM to 1600 RPM - 10%  
regulation  
1800 RPM - 5% regulation
- L Service parts for mechanical governor  
Not used with hydraulic pump  
Gasoline  
2400 RPM - 5% regulation
- M Service parts for mechanical governor  
Use with hydraulic pump  
Gasoline  
2400 RPM - 5% regulation
- 1 313 998 R1 COUPLING
- 2 443 013 PIN, 1/8 x 5/8" groove (2)
- 3 277 161 R1 FORK
- 4 277 162 R1 SPRING, bumper
- 5 313 996 R91 LEVER w/BUSHING

# ENGINE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
MECHANICAL GOVERNOR - Continued (Novi)			MECHANICAL GOVERNOR - Continued (Novi)		
6	103 883	PLUG, 1/8" headless sltd pipe (2)	310 840 R91	GOVERNOR ASSY (Mechanical Governor A,B,G and H)	
7	313 984 R91	BODY w/two PLUG, 103 883 and SCREW, 313 988 R1		(Composed of -	
8	367 669 R1	GASKET, governor housing		1 BODY 313 983 R91	
9	452 560	KEY, 1/16 x 3/8" Woodruff		§ 1 CENTRIFUGAL UNIT	
10		CENTRIFUGAL UNIT (Not Furnished Separately)		1 COUPLING 313 998 R1	
		NUT, 3/8"NF		1 KEY 452 560 )	
		WASHER, 3/8" lock		SCREW, 3/8 x 1-1/4" hex hd cap (3)	
11	313 989 R91	LEVER		WASHER, 3/8" lock (3)	
12	313 992 R1	SPRING, governor	338'343 R92	GOVERNOR ASSY (Mechanical Governor C,E, J and K)	
13	313 990 R1	PLUNGER, spring		SCREW, 3/8 x 1-1/4" hex hd cap (3)	
14	313 991 R1	SCREW, adjusting		WASHER, 3/8" lock (3)	
15		NUT, 1/4"NF (3)	338 344 R91	GOVERNOR ASSY (Mechanical Governor D,F,L and M)	
16	313 995 R1	LEVER, manual		SCREW, 3/8 x 1-1/4" hex hd cap (3)	
17	277 169 R1	WASHER, manual lever		WASHER, 3/8" lock (3)	
18	277 170 R1	CLIP, lever shaft	19 984 R1	NUT, governor lubrication tube (2 for Mechanical Governor H and M)	
19		NUT, 3/8"NF	306 013 R1	ROD, governor connecting	
20	313 988 R1	SCREW, adjusting	312 066 R1	ROD, governor connecting (Mechanical Governor B,E and F)	
21		WASHER, 3/8" lock		SCREW, No. 8 x 1/4" pan hd. slt. tapping	
22	313 994 R1	SCREW, stop	995 061 R1	TUBE, governor lubrication (13" lg. copper 1/4" OD #) (Mechanical Governor H and M)	
	313 983 R91	BODY ASSEMBLY (Composed of -			
		1 BODY 313 984 R91			
		1 CLIP 277 170 R1			
		1 FORK 277 161 R1			
		1 LEVER 313 989 R91			
		1 LEVER 313 995 R1			
		1 LEVER w/ BUSHING 313 996 R91			
		2 PIN 443 013			
		1 PLUNGER 313 990 R1			
		1 SCREW 313 991 R1			
		1 SCREW 313 994 R1			
		1 SPRING 313 992 R1			
		1 SPRING 277 162 R1			
		1 WASHER 277 169 R1)			
109 415		BALL, joint governor connecting rod (2)			
		NUT, 1/4"NF (2)			
		WASHER, 1/4" lock (4)			
29 901 D		CONNECTOR, governor lubrication tube (in governor) (Mechanical Governor H and M)			
272 497 R1		COVER, magneto mounting (Mechanical Governor C, H, J, K, L and M)			
		SCREW, 3/8 x 7/8" hex hd cap			
		SCREW, 3/8 x 1-1/4" hex hd cap			
		WASHER, 13/32 x 13/16" x 16 ga.			
		WASHER, 3/8" lock			
313 492 R1		ELBOW, governor lubrication tube (Mechanical Governor H and M)			

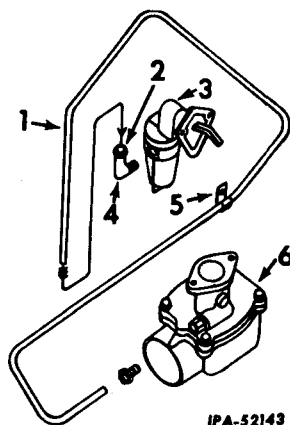
§ - Not Furnished Separately

(#) - Part Number and Price Covers One Foot of Tubing - Furnished Only in 50 Foot Rolls.

# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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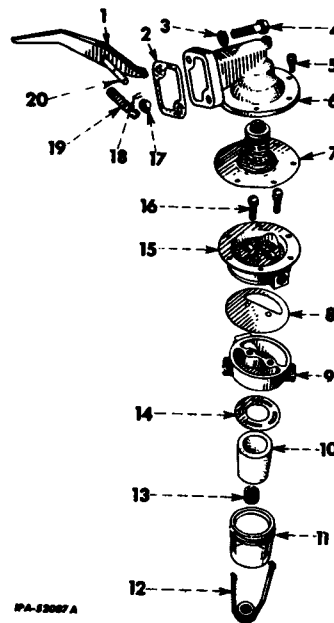
## FUEL PIPE AND CONNECTIONS (Not used with Hydraulic Pump)



- |         |             |  |
|---------|-------------|--|
| 1       | 372 498 R11 | PIPE, fuel   |
| 2       | 19 885 R1   | NUT, coupling (2)  |
| 3       | 84 838 R93  | PUMP ASSY, fuel (for components see list of parts under details of "Fuel Pump")  |
| 4       | 24 847 H    | ELBOW (at fuel pump)   |
| 5       | 263 555 R1  | CLIP, fuel pipe  |
| 6       |             | CARBURETOR ASSY (for components see list of parts under details of "Carburetor") |
| 164 450 |             | CLIP, fuel pipe (felt)   |

REF. NO.	PART NUMBER	DESCRIPTION
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## FUEL PUMP (Not used with Hydraulic Pump)

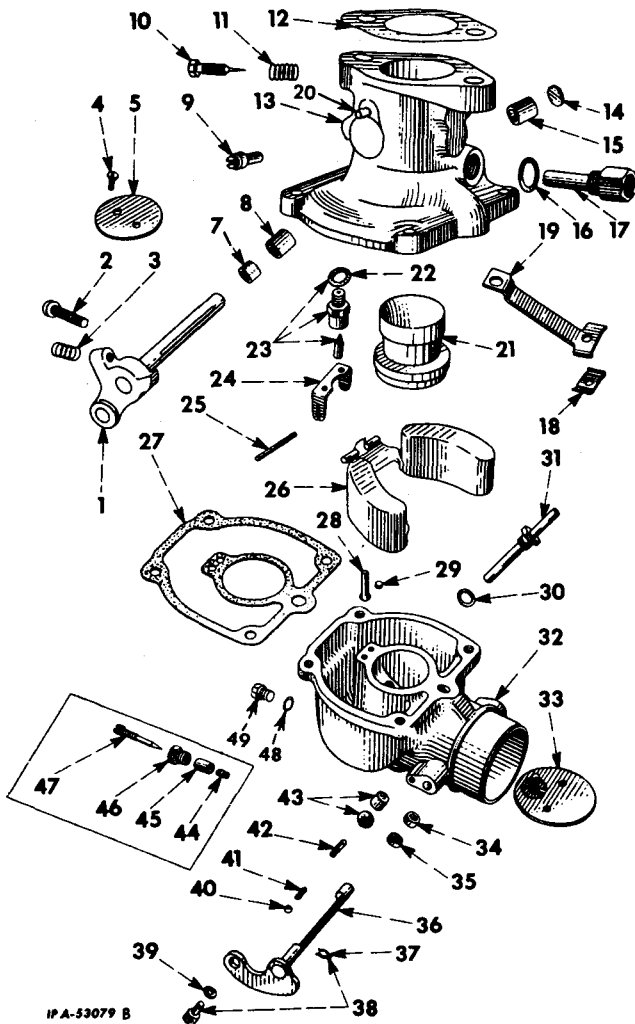


- |    |                         |  |
|----|-------------------------|--|
|    | 84 838 R93              | PUMP ASSEMBLY, fuel                            |
| 1  | 90 623 R1               | LEVER, cam                                     |
| 2  | 532 496 R1              | GASKET, pump to crankcase                      |
| 3  | 103 320                 | WASHER, 5/16" lock (2)                         |
| 4  | 179 820                 | SCREW, 5/16 x 1-1/4" hex hd cap (2)            |
| 5  | 90 610 R91              | SCREW w/WASHER                                 |
| 6  |                         | Not Furnished Separately (Order 84 838 R93)    |
| 7  | 90 625 R91              | DIAPHRAGM                                      |
| 8  | 90 626 R1               | DIAPHRAGM, air dome                            |
| 9  | 109 317 R1              | COVER, filter and valve housing                |
| 10 | 967 640 R21             | ELEMENT, filter, paper                         |
| 11 | 109 313 R11             | BOWL,w/GASKET, 90 600 R1                       |
| 12 | 109 315 R91             | RETAINER w/SCREW                               |
| 13 | 90 606 R1               | SPRING, filter                                 |
| 14 | 90 600 R1               | GASKET, filter bowl                            |
| 15 | 121 759 R91             | HOUSING, valve                                 |
| 16 | 90 611 R91              | SCREW w/WASHER, valve housing to filter cover  |
| 17 | 90 598 R1               | PLUG, cam lever shaft seal                     |
| 18 | 90 619 R1               | PIN, spring cam lever pin retainer             |
| 19 | 90 603 R1               | SPRING, cam lever return                       |
| 20 | 90 618 R1<br>109 318 R1 | PIN, cam lever<br>WASHER, filter bowl retainer |

# FUEL SYSTEM

REF. PART  
NO. NUMBER DESCRIPTION

## CARBURETOR (Gasoline)



- A 367 258 R92 CARBURETOR ASSY, 1-1/4" I. H. updraft (order 374 325 R95)(UC-221)
- B 367 259 R92 CARBURETOR ASSY, 1-3/8" I. H. updraft (order 379 813 R95)(UC-263)
- C 374 325 R95 CARBURETOR ASSY, 1-1/4" I. H. updraft (will work for 367 258 R91) (UC-221)
- D 372 723 R92 CARBURETOR ASSY, 1-3/8" I. H. updraft (order 379 813 R95)(UC-263)  
103 026 NUT, 3/8"NF (2)  
103 321 WASHER, 3/8" lock (2)
- E 379 813 R95 CARBURETOR ASSY, 1-3/8" I. H. updraft (will work for 372 723 R92) (UC-263)
- 1 368 139 R91 SHAFT and LEVER w/PIN, 18 609 R1, and RETAINER, 24 484 D, throttle PIN, 3/32 x 11/16" Esna roll  
18 609
- 2 SCREW, throttle shaft adjusting
- 3 25 484 D SPRING, idle throttle adjustment retainer

REF. PART  
NO. NUMBER DESCRIPTION

## CARBURETOR - Continued (Gasoline)

- 4 47 392 D SCREW, throttle butterfly (2)
- 5 370 862 R1 BUTTERFLY, throttle (Units A, B and C)
- 5 54 489 D BUTTERFLY, throttle (Units D and E)
- 7 379 598 R1 SEAL, throttle shaft dust (Units C, D and E)
- 8 47 390 D BUSHING, throttle shaft
- 9 368 142 R1 PLUG, idle passage
- 10 362 528 R1 SCREW, idle adjusting
- 11 351 959 R1 SPRING, idle adjustment screw retainer
- 12 530 681 R1 GASKET, carburetor (not furnished as part of carburetor ASSEMBLY)
- 13 368 147 R21 BODY ASSY, throttle (Units A, B and C)  
(Composed of -  
2 BUSHING 47 390 D  
1 PIN 45 110 D  
1 PLUG 57 956 D  
1 SEAL 379 598 R1)
- 13 373 501 R21 BODY ASSY, throttle (Units D and E)  
(Composed of -  
2 BUSHING 47 390 D  
1 PIN 45 110 D  
1 PLUG 57 956 D  
1 SEAL 379 598 R1 )
- 14 57 956 D PLUG, throttle shaft expansion
- 15 47 390 D BUSHING, throttle shaft
- 16 18 377 D GASKET, strainer screen retainer
- 17 29 902 DX RETAINER, strainer screen
- 18 32 596 D CLAMP, starting shutter control  
131 963 SCREW, No. 10NF x 5/8" fil. hd. mach. (cd. or an-pltd.)  
120 611 NUT, No. 10NF (cd. or zn-pltd.)  
120 217 WASHER, No. 10 lock (cd. or zn-pltd.)
- 19 368 146 R11 BRACKET w/CLAMP, 32 596 D, starting shutter control
- 20 45 110 D PIN, throttle stop
- 21 368 143 R1 VENTURI, double (Units B and C)
- 21 368 148 R1 VENTURI, double (Unit A)
- 21 372 722 R1 VENTURI, double (Unit D)
- 21 47 407 R93 VENTURI, single (Unit E)
- 22 25 948 D GASKET, needle valve cage
- 23 47 396 DAX40 CAGE w/GASKET, 25 948 D, needle valve
- 24 47 394 D SUPPORT, float lever pivot  
132 631 SCREW, No. 4 x 5/16" slt. rd. hd. mach. (cd or zn-pltd.) (2)  
131 043 WASHER, No. 4 lock (cd or zn-pltd.) (2)
- 25 47 395 D PIVOT, float lever

# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CARBURETOR - Continued (Gasoline)			CARBURETOR - Continued (Gasoline)		
26	47 398 DX	FLOAT, and LEVER	42	142 484	PIN, starting shutter stop (optional with 351 588 R1)
27	47 388 DA	GASKET, fuel bowl	43	60 947 D	PACKAGE, drip hole filler replacement
28	49 798 D75	JET, idle metering No. 75	44	56 611 DA	SEAT, fuel adjustment screw .046" (Unit A)
29	35 606 D55	BLEED, main air (No. 55) (Unit A)	44	355 003 R1	SEAT, fuel adjustment screw .051" (Unit B)
29	35 606 D54	BLEED, main air (No. 54) (Unit B)	44	374 331 R1	SEAT, fuel adjustment screw .051" (Unit C)
29	35 606 D52	BLEED, main air (No. 52) (Units C, D and E)	44	374 330 R1	SEAT, fuel adjustment screw .060" (Unit D)
30	251 583 R1	GASKET, metering nozzle	44	380 500 R1	SEAT, fuel adjustment screw .063" (Unit E)
31	368 150 R1	NOZZLE, metering (Unit A)	45	24 703 DA	PACKING, fuel adjusting screw - (optional with 67 266 DX) (Units A and B) (*)
31	370 863 R1	NOZZLE, metering (Unit B)	45	67 266 DX	PACKING, fuel adjusting screw (optional with 24 703 DA) (Units A and B) (*)
31	374 328 R1	NOZZLE, metering (Units C and D)	46	24 687 DA	NUT, fuel adjusting screw packing (Units A and B)
31	379 065 R1	NOZZLE, metering (Unit E)	47	47 404 DA	SCREW, fuel adjusting (Units A and B)
32	368 149 R91	BOWL ASSY, fuel (Unit A) (Composed of - 1 BLEED 35 606 D55 1 PIN 351 588 R1 1 PLUG 32 611 D 1 RETAINER 45 148 D 1 SEAT 56 611 DA 1 SEAT 45 149 DA)	48	362 526 R1	GASKET, fuel adjusting plug (Units C, D and E) (*)
32	368 144 R91	BOWL ASSY, fuel (Unit B) (Composed of - 1 BLEED 35 606 D54 1 PIN 351 588 R1 1 PLUG 32 611 D 1 RETAINER 45 148 D 1 SEAL 45 149 DA 1 SEAT 355 003 R1 )	49	362 525 R1	PLUG, fuel adjusting (Units C, D and E) (*)
32	372 720 R21	BOWL w/PIN, 351 588 R1, RETAINER, 45 148 D and SEAL, 45 149 DA, fuel (Units C, D and E)	387 454 R92	PACKAGE, carburetor gasket (Units C, D and E) (Consists of - 1 GASKET 31 336 D 1 GASKET 18 377 D 1 GASKET 25 948 D 1 GASKET 47 388 D 1 GASKET 251 583 R1 1 GASKET 381 955 R1 1 "O" RING 384 820 R1 1 PACKAGE 60 947 D 1 PACKING 24 703 DA 1 SEAL 45 149 DA 1 SEAL 379 598 R1 )	
180 021		SCREW, 1/4 x 7/8" hex hd cap			
120 380		WASHER, 1/4" lock			
117 243		PLUG, 1/8" sq hd stl. pipe (cd. or zn-pltd.)			
33	357 002 R12	SHUTTER, starting			
132 688		SCREW, No. 6 x 1/4" slt rd hd. mach. (cd or zn-pltd.) (2)			
131 044		WASHER, No. 6 lock (cd. or zn-pltd.) (2)			
34	45 149 DA	SEAL, butterfly dust	387 455 R92	PACKAGE, carburetor overhaul field service (Units C and D) (Consists of - 1 BALL 52 791 R1 2 BUSHING 47 390 D 1 CAGE 47 369 DAX40 1 INSTRUCTIONS installing 1 014 457 R1 1 PIN 351 558 R1 1 PIVOT 47 395 D 1 PLUG 57 956 D 1 RETAINER 25 484 D 1 RETAINER 29 902 DX 1 RETAINER 45 148 D 2 SCREW 47 392 D 1 SCREW 362 528 R1 1 SCREW 374 327 R1 1 SHAFT w/ LEVER 368 139 R91 1 SPRING 46 059 D 1 SPRING 351 959 R1 )	
35	45 148 D	RETAINER, dust seal			
36	352 642 R91	SHAFT w/LEVER starting shutter			
37	363 881 R1	RETAINER, starting shutter lever swivel			
131 963		SCREW, No. 10NF x 5/8" fil. hd. machine (cd or zn-pltd.)			
38	64 283 DBX	SWIVEL w/RETAINER, 363 881 R1, starting shutter lever			
39	32 592 D	WASHER, starting shutter lever swivel			
40	52 791 R1	BALL, friction spring			
41	46 059 D	SPRING, starting shutter friction			
42	351 588 R1	PIN, starting shutter stop (optional with 142 484)			

\* - Used only on Carburetors w/o fuel shut-off.

# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
CARBURETOR - Continued (Gasoline)		
387 458 R92	PACKAGE, carburetor overhaul (Unit E) (Consists of -	
	1 BALL	52 791 R1
	1 BUSHING	47 390 D
	1 CAGE	47 396 DAX40
	1 FLOAT	47 398 D
	1 PIN	351 588 R1
	1 PIVOT	47 395 D
	1 PLUG	57 956 D
	1 RETAINER	29 902 DX
	1 RETAINER	45 148 D
	1 SCREW	132 128
	1 SCREW	47 392 D
	1 SCREW	362 528 R1
	1 SCREW	374 327 R1
	1 SPRING	25 484 D
	1 SHAFT	368 139 R91
	1 SPRING	351 959 R1
	1 SPRING	46 059 D )
368 137 R1	RETAINER, dust seal (Units A, B and C)	
312 066 R1	ROD, governor connecting (Units A and B)	
312 065 R1	SPACER, carburetor (for use with heavy duty magneto) C-221 501 to 43020 C-263 501 to 56635	

# FUEL SYSTEM

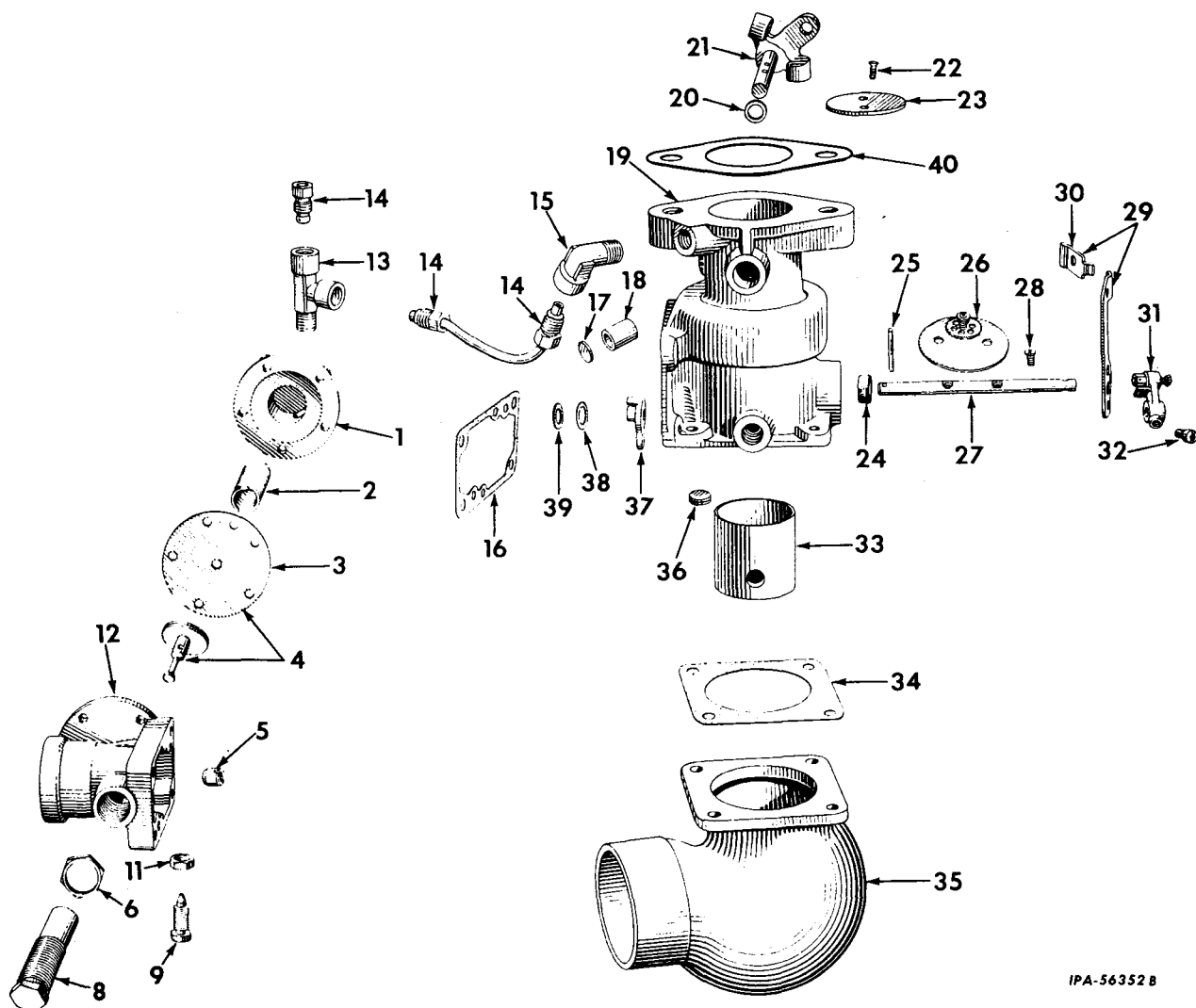
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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## CARBURETOR

(American Bosch Arma Corp.) (Liquefied Petroleum Gas and Natural Gas) (For use w/Sleeved Engines)

## CARBURETOR - Continued

(American Bosch Arma Corp. (Liquefied Petroleum Gas and Natural Gas) (For use w/Sleeved Engines)



IPA-56352 B

309 592 R91	CARBURETOR ASSY, (Model No. 1-1/4" XG) (order CARBURETOR, 371 088 R92)	6	56 430 D	NUT, fuel adjusting screw lock
371 088 R92	CARBURETOR ASSY w/BLEED SCREW, 268 169 R1 (American Bosch Arma Corp. Model No. 1-CBX-125-A-136) (will work for CARBURETOR, 309 592 R91) SCREW, 3/8 x 1-1/4" hex hd cap (2) WASHER, 3/8" lock (2)	8	56 429 D	SCREW, fuel adjusting
1	359 623 R1 COVER, economizer SCREW, No. 8 x 5/8" slt. fil. hd cd-pltd. mach. (5) WASHER, No. 8 cd-pltd. lock (5)	9	359 620 R1	SCREW, starting adjusting
2	359 622 R1 SPRING, economizer	11	113 506 R1	NUT, starting adjusting screw lock
3	113 504 R1 DIAPHRAGM, economizer	12	307 977 R91	BODY, gas inlet and economizer SCREW, No. 12 x 7/8" slt. fil. hd. cd-pltd. mach. (4) WASHER, No. 12 cd-pltd. light lock (4)
4	359 621 R91 DIAPHRAGM ASSY, economizer	13	19 272 R1	TEE, 1/8 x 90° two-way (for 3/16" tube)
5	373 189 R1 SCREW, economizer bleed (not part of 359 618 R91)	14	371 215 R1	NUT, coupling (3)
		15	32 468 H	ELBOW, 1/8 x 90° (for 3/16" tube)
		16	359 624 R1	GASKET, inlet and economizer
		17	47 856 H	PLUG, 1/2" brs. expansion
		18	37 024 D	BUSHING, throttle bearing

# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CARBURETOR - Continued (American Bosch Arma Corp.) (Liquefied Petroleum Gas) (For use w/Sleeved Engines)			CARBURETOR (Impco) (Liquefied Petroleum Gas and Natural Gas Engines) (For use w/Sleeveless Engines)		
19	374 862 R91	BODY and THROTTLE ASSY, partial (Composed of - 2 BUSHING 37 024 D 1 DISC 359 611 R1 1 NOZZLE 64 835 D 1 PLUG 13 123 D 1 PLUG 47 856 H 2 SCREW 56 370 D 1 SEAL 64 837 D 1 SHAFT & STOP 373 187 R91 )	606 859 C91	CARBURETOR (Impco Model No. 100 1-1/2 x 2-5/16") (Service parts will be furnished in next revision)	
			383 376 R1	GASKET, carburetor	
20	64 837 D	OIL SEAL, throttle shaft			
21	373 187 R91	SHAFT & STOP ASSY, throttle No. 10NF x 5/8" slt. fil. hd. cd-pltd. SCREW, No. 10NF x 5/8" slt. fil hd. cd-pltd. machine			
22	56 370 D	SCREW, throttle shaft			
23	359 611 R1	DISC, throttle			
24	58 899 D	WASHER, dust			
25	359 616 R1	PIN, valve lever			
26	359 613 R91	DISC ASSY, spring loaded choke			
27	359 612 R1	SHAFT, choke			
28	56 365 D	SCREW, choke shaft			
29	58 889 D	SUPPORT w/CLAMP, 56 389 D, ASSEMBLY, choke tube SCREW, No. 8 x 1/4" slt. binding hd-cd-plts. mach. (2)			
30	56 389 D	CLAMP, choke tube NUT, No. 10NF SCREW, No. 10 x 3/8" slt. fil. hd. cd-pltd. mach.			
31	275 583 R91	LEVER w/SET SCREW, 36 756 D ASSEMBLY, choke SCREW, No. 10NF x 1/2" hex hd machine			
32	36 756 D	SCREW, choke lever set			
33	373 939 R1	VENTURI SCREW, No. 12 x 3/4" slt. fil. hd. cd-pltd. mach. WASHER, No. 12 cd-pltd. light lock			
34	359 627 R1	GASKET, air intake elbow			
35	373 190 R1	ELBOW, air intake SCREW, No. 12 x 5/8" slt. fil. hd. cd-pltd. mach (4) WASHER, No. 12 cd-pltd. light lock (4)			
36	13 123 D	PLUG, 3/16" brs. expansion			
37	359 614 R1	LEVER, valve			
38	359 615 R1	WASHER, spring			
39	37 183 D	WASHER, valve lever			
	268 169 R1	SCREW, bleed			
40	530 681 R1	GASKET, carburetor (not furnished as part of Carburetor Assembly)			
	64 835 D	NOZZLE, balance tube			



# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL REGULATOR (Ensign) (Liquefied Petroleum Gas)			FUEL REGULATOR - Continued (Ensign) (Liquefied Petroleum Gas)		
371 100 R91		REGULATOR ASSY, fuel (liquefied petroleum gas)	15	277 353 R1	RETAINER, high pressure valve spring
		SCREW, 5/16 x 1-1/2" hex hd cap (2)	16	277 354 R1	GASKET, high pressure valve spring retainer
		SCREW, 5/16 x 1-1/8" hex hd cap	17	277 355 R1	SPRING, high pressure valve
		WASHER, 5/16" lock	18	277 356 R1	SPRING, high pressure valve seat retainer
1	19 270 R1	SCREW, No. 10NF x 5/8" slt fil hd, cd-pltd, mach. w/lock WASHER (6)	19	277 357 R1	VALVE, high pressure
2	444 814	PLUG, 1/8" pipe (in vaporizer cover)	20	277 358 R91	SEAT w/SEAL, 359 600 R1, high pressure valve
3	277 195 R91	COVER, w/PLUG, 13 017 R1 vaporizer	21	359 600 R1	SEAL, high pressure valve
4	277 196 R91	SPRING ASSY, high pressure	22		VALVE ASSY, low pressure (not serviced separately - order 277 369 R91)
5	277 370 R91	DIAPHRAGM, high pressure	23	113 443 R91	LEVER, low pressure valve
6	277 197 R1	COVER, high pressure diaphragm	24	277 360 R1	SPRING, low pressure valve
7	19 270 R1	SCREW, No. 10NF x 5/8" slt fil hd, cd-pltd, mach. w/lock WASHER (6)	25	19 271 R91	SCREW w/lock WASHER, low pressure valve
8	277 198 R1	GASKET, vaporizer cover	26	277 361 R1	SEAT, low pressure valve
9	277 199 R1	SCREW, vaporizer partition plate (3)	27	277 362 R1	PIN, pivot
10	277 350 R1	PLATE, vaporizer partition	28	352 221 R1	SEAL, low pressure valve
11	277 351 R1	LEVER, high pressure valve	29	113 434 R91	STRAINER, fuel inlet
12	37 179 D	SCREW, idle adjusting	30	113 186	PLUG, 3/4" pipe
13	14 526 D	SPRING, idle adjusting screw retainer			
14	277 352 R1	SCREW, bleed, "B"			

# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
FUEL REGULATOR - Continued (Ensign) (Liquefied Petroleum Gas)		
31		BODY, regulator (Not Furnished Separately)
	103 885	PLUG, 3/8" pipe
32	59 708 D	VALVE, drain
33	64 433 D	GASKET, low pressure partition plate
34	277 365 R1	PLATE, low pressure partition
35	277 366 R1	PIN, diaphragm push
36	277 367 R91	DIAPHRAGM w/PIN, 277 366 R1, low pressure
37	277 368 R2	PLATE, support
38	118 831	PLUG, 1/8" slt hd. pipe
39	19 270 R1	SCREW, No. 10NF x 5/8" slt fil hd. cd-pltd. mach. (support plate) (8)
	373 174 R91	COMPENSATOR ASSEMBLY
	277 369 R91	KIT, fuel regulator overhaul (Composed of -
	1	DIAPHRAGM 277 367 R91
	1	DIAPHRAGM 277 370 R91
	1	GASKET 64 433 D
	1	GASKET 277 354 R1
	1	GASKET 277 198 R1
	1	LEVER 277 351 R1
	1	SEAL 352 221 R1
	1	SEAL 359 600 R1
	1	SEAT 277 358 R91
	1	SCREW 37 179 D
	3	SCREW 277 199 R1
	23	SCREW 19 270 R1
	2	SCREW 19 271 R1
	1	SPRING 277 196 R91
	1	SPRING 277 355 R1
	1	SPRING 277 356 R1
	1	SPRING 277 360 R1
	1	STRAINER 113 434 R91
	1	VALVE 277 357 R1
	§ 1	VALVE )
	373 173 R1	RING, retaining

§ - Not Furnished Separately

# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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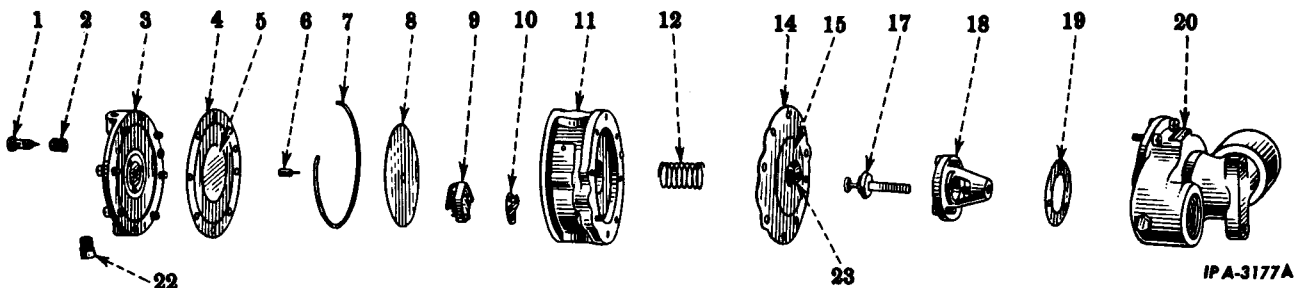
## REGULATOR UNIT (AMERICAN BOSCH)

Natural Gas (C-221 501 Up)  
(C-263 501 Up)  
Combination Gas and Gasoline  
(C-221 501 to 43020)  
(C-263 501 to 56635)

REF. NO.	PART NUMBER	DESCRIPTION
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## REGULATOR UNIT (AMERICAN BOSCH) - Continued

Natural Gas (C-221 501 Up)  
(C-263 501 Up)  
Combination Gas and Gasoline  
(C-221 501 to 43020)  
(C-263 501 to 56635)



	35 816 D	REGULATOR UNIT (Model 1" Type B) SCREW, 5/16 x 3/4" hex hd cap (2) WASHER, 5/16" lock (2)
1	37 011 D	SCREW, idle adjusting
2	36 758 D	SPRING, idle adjusting screw retainer
3		COVER, bowl (Not Furnished Separately) SCREW, No. 10NF x 1/2" mach. fil hd. cd-pltd. (8) WASHER, No. 10 lock (8)
4	37 012 D	GASKET, upper diaphragm
5	36 909 D	DIAPHRAGM w/GASKET, 37 012 D, upper
6	36 907 D	ROD, valve lever push
7	36 910 D	WIRE, partition plate, locking
8	36 911 D	PLATE, partition
9	36 902 D	VALVE w/GASKET, 36 903 D, pilot SCREW, No. 6 x 7/16" fil hd. cd-pltd. mach. (3) WASHER, No. 6 lock (3)
10	36 903 D	GASKET, valve lever support
11	268 201 R91	BOWL

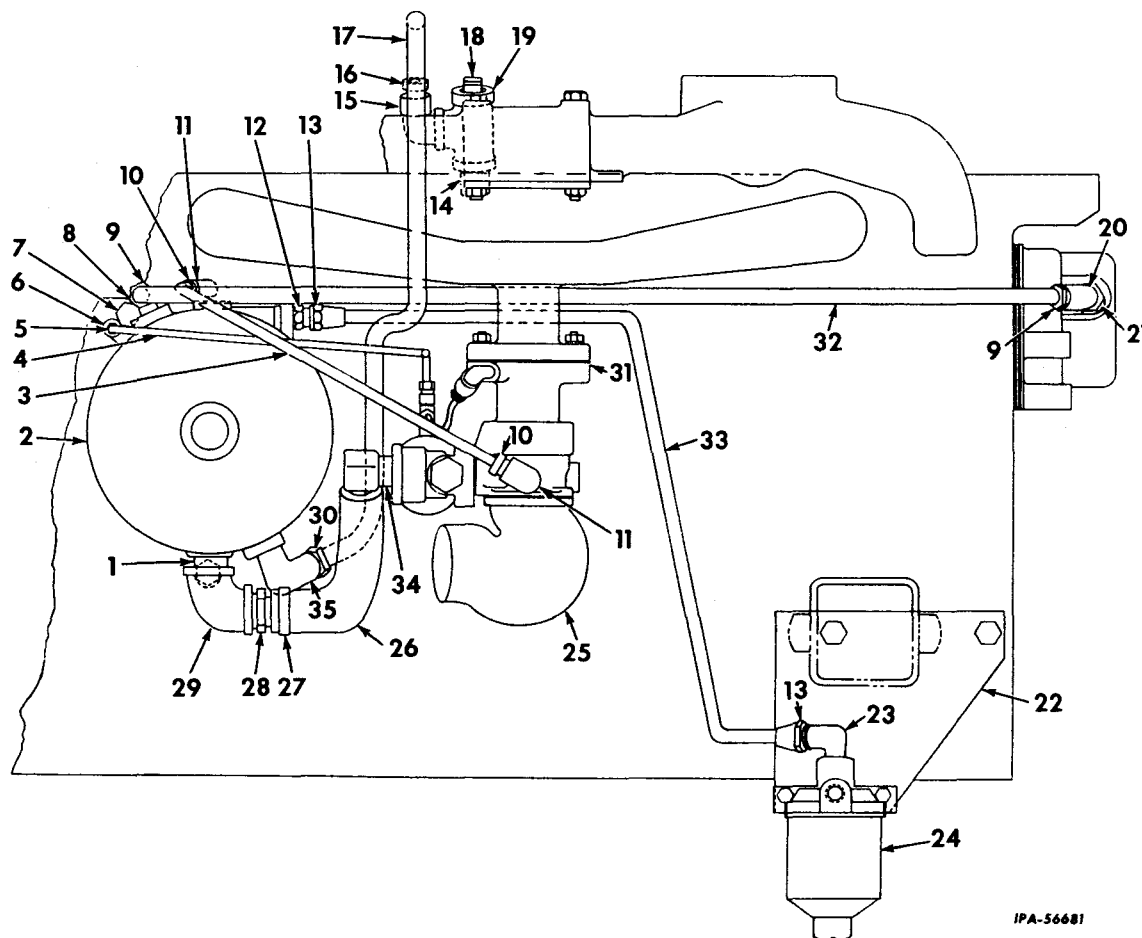
12	37 010 D	SPRING, lower diaphragm
14	324 797 R1	DIAPHRAGM, lower
14	42 331 D	DIAPHRAGM, 324 797 R1 and PLATE, 42 333 D, lower
15	42 333 D	PLATE, lower diaphragm (2)
17	36 897 D	VALVE
18	36 896 D	SEAT, valve SCREW, No. 10-32NF x 9/16" fil hd. cd-pltd. mach. (3)
19	36 895 D	GASKET, valve seat
20		BODY, regulator (Not Furnished Separately) SCREW, No. 10-32NF x 1/2" fil. hd. cd-pltd. mach. (8) WASHER, No. 10 lock (8)
22	37 009 D	PLUG, 1/8" balance tube
23	42 334 D	SCREW w/PLATE, 268 207 R1 diaphragm
	118 831	PLUG, 1/8" pipe
	37 009 D	PLUG, 1/8" pipe (pressure test hole plug)
	268 207 R1	PLATE, diaphragm screw head

## FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**FUEL PIPING AND CONNECTIONS**  
(Liquefied Petroleum Gas)  
(For use w/Sleeved Engines)

**FUEL PIPING AND CONNECTIONS - Continued**  
(Liquefied Petroleum Gas)  
(For use w/Sleeved Engines)



IPA-56681

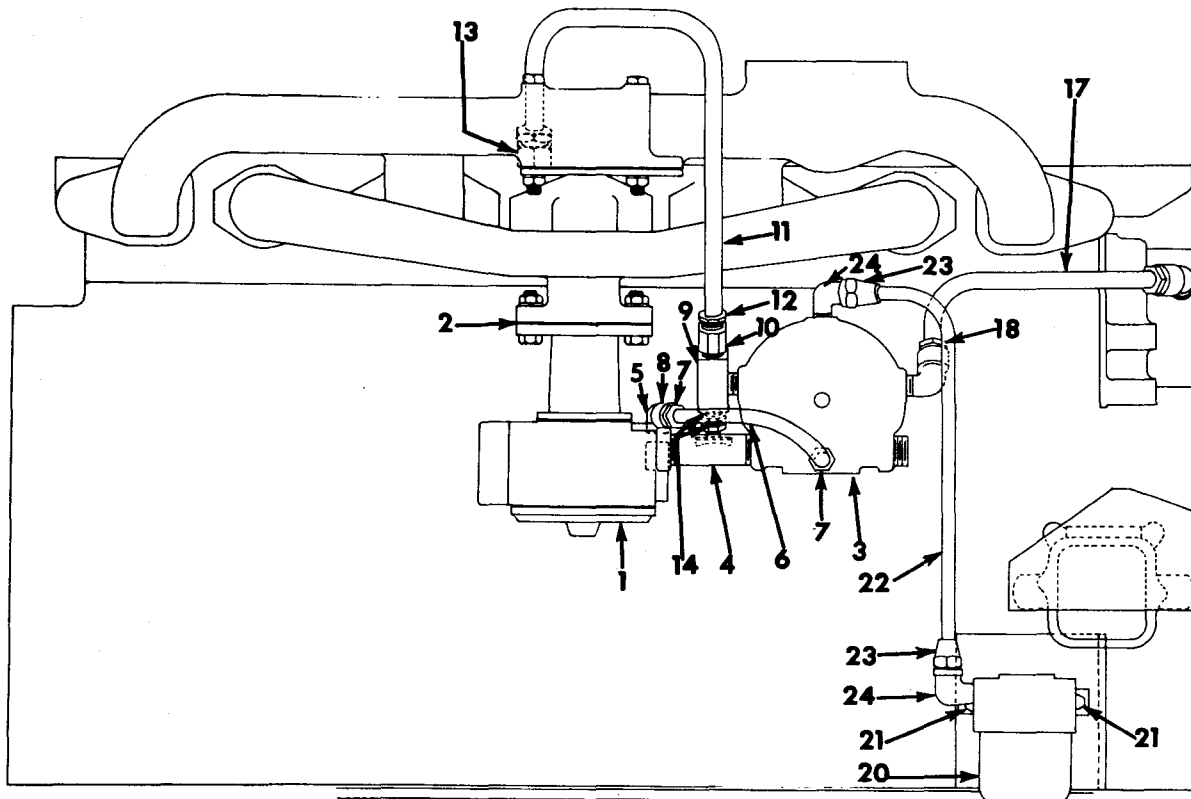
1	128 067	NIPPLE (3/4 x 1-1/2" pipe)	14	144 610	NIPPLE, 1/2 x 1-3/8" close pipe
2	371 100 R91	REGULATOR ASSY, fuel (for components see list of parts under details of "Regulator")	15	68 134 D	ELBOW, 90° water inlet
3	371 103 R1	LINE, regulator to carburetor balance	16	19 987 R1	NUT, (in cylinder head)
4	371 104 R1	LINE, regulator to carburetor idle	17	371 105 R1	TUBE, regulator water inlet (regulator to cylinder head)
5	19 983 R1	NUT, idle line (regulator end)	18	219 199	PLUG, 1/2" sq. hd. pipe
6	32 468 H	BODY, idle line (regulator end)	19	138 105	TEE, 1/2" pipe water inlet tube (in cylinder head)
7	86 224 H	SPACER, fuel regulator (2)	20	19 502 R1	ELBOW, 45° (in water pump)
8	68 134 D	ELBOW, 90° water inlet tube (in regulator)	21	142 269	BUSHING, 3/8 x 1/2" reducing pipe (in water pump)
9	19 987 R1	NUT, coupling water inlet tube (in regulator) (2)	22	308 322 R1	BRACKET, fuel filter and voltage regulator mounting
10	19 985 R1	NUT, coupling balance line (2)	23	118 755	ELBOW, 3/8" tube x 1/4" pipe (in filter)
11	24 847 H	ELBOW, regulator to carburetor balance line (2)	24	346 818 R91	FILTER ASSEMBLY (for components see list of parts under details of "Fuel Filter")
12	118 755	ELBOW, 3/8" tube x 1/4" pipe			
13	121 758	NUT, 3/8" fuel filter tube (2)			

## FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
FUEL PIPING AND CONNECTIONS (Liquefied Petroleum Gas) (For use w/Sleeveless Engines)		
25	371 088 R92	CARBURETOR ASSY, (for components see list of parts under details of "Carburetor")
26	371 102 R1	HOSE, fuel line
27	274 085 R91	CLAMP, fuel hose (2)
28	188 902 R1	NIPPLE (7/8 x 2-5/16") regulator end fuel hose
29	119 099	ELBOW, 3/4" x 90° pipe
30	19 987 R1	NUT, coupling water outlet (in regulator)
31	31 336 D	GASKET, carburetor (will work for 21 632 D)
32	371 106 R2	LINE, regulator water outlet (regulator to water pump)
33	308 335 R11	TUBE, w/two NUTS, 121 758 fuel filter to regulator
34	188 897 R1	ELBOW, 7/8 x 1-3/4 x 1-3/8"
35	68 134 D	ELBOW, 90° water outlet tube (in regulator)
	266 199 R1	COVER, fuel pump opening SCREW, 5/16 x 1/2" hex hd cap (2)
	76 950 R2	VALVE, spring retainer (6)
	33 700 DA	WIRE, choke control

## FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>FUEL PIPING AND CONNECTIONS</b> (Natural Gas) (For use w/Sleeveless Engines)			<b>FUEL PIPING AND CONNECTIONS - Continued</b> (Natural Gas) (For use w/Sleeveless Engines)		



CE-102026

1	606 859 C91	CARBURETOR (Impso Model No. 100 1-1/2 x 2-5/16") (service parts will be furnished in next revision)	14	119 928	BUSHING, reducer (in tee)
	179 841	BOLT, 3/8 x 1-1/4" hex hd. (2)	15	141 615	VALVE, reducer (in tee)
	102 635	NUT, 3/8" (2)	16	40 876 D	ELBOW, outlet tube (in vaporizer)
	103 321	WASHER, 3/8" lock (2)	17	678 160 C1	TUBE, water outlet
2	383 376 R1	GASKET, carburetor	18	37 288 H	NUT, outlet tube (2)
3	673 362 C91	VAPORIZER, LPG fuel	19	58 986 D	ELBOW, 45° outlet tube (in water pump)
4	192 078	NIPPLE, 1/2NPT x 3" (vaporizer to carburetor)	20	346 547 R91	FILTER w/ELEMENT, 630 422 C1 and "O" RING, 21 056 R1, fuel
5	37 167 D	ELBOW, balance tube (in carburetor)		18 655 R1	BOLT, 1/4 x 1" hex hd. (2)
6	678 158 C1	TUBE, balance		120 375	NUT, 1/4" (2)
7	37 165 D	NUT, balance tube (2)		120 380	WASHER, 1/4" lock (2)
8	39 854 D	CONNECTOR, balance tube (in regulator)	21	678 161 C1	BRACKET, fuel filter
9	444 136	TEE, automotive pipe (in vaporizer)		20 299 R1	BOLT, 5/8 x 3-3/4" hex hd. (2)
9	444 244	TEE, automotive pipe (in vaporizer)		124 589	NUT, 5/8" (2)
9	444 542	TEE, automotive pipe (in vaporizer)		121 574	WASHER, 5/8" lock (2)
10	42 409 D	CONNECTOR, inlet tube (in tee)	22	678 157 C91	TUBE w/two NUT, 121 758, filter to regulator
11	678 159 C1	TUBE, water inlet	23	121 758	NUT, 3/8" flared (2)
12	37 288 H	NUT, inlet tube (2)	24	118 755	ELBOW, 1/4"NPT x 90° flared tube (2)
13	18 506 R1	CONNECTOR, inlet tube (in cylinder head)		445 673	PLUG, water pump and thermostat housing (2)
				630 422 C1	ELEMENT w/FILTER, 346 547 R91
				21 056	"O" RING w/FILTER, 346 547 R91

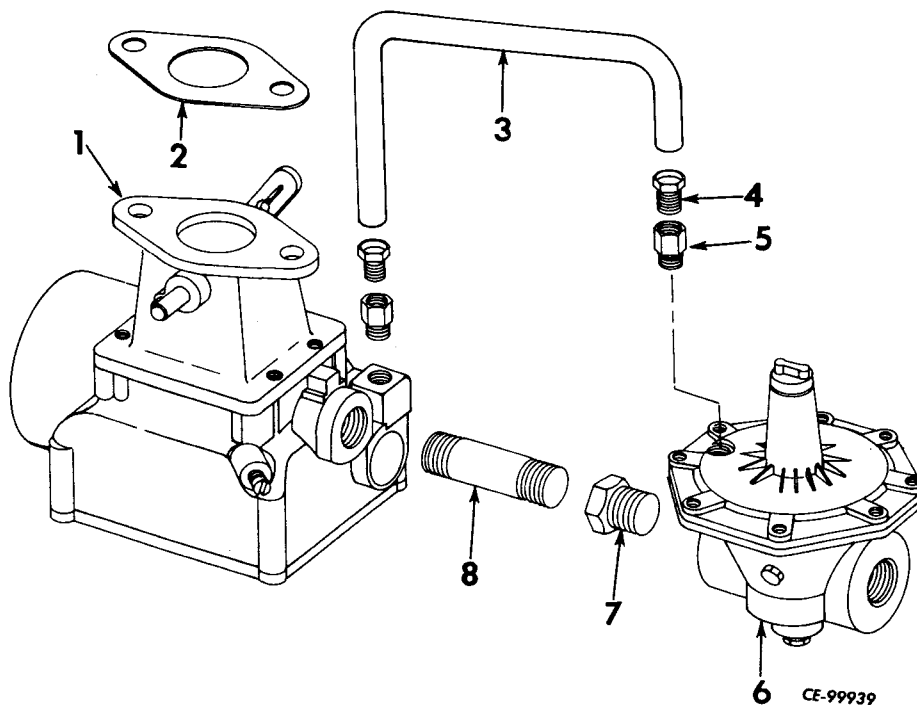
## FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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FUEL PIPING AND CONNECTIONS  
(Natural Gas)  
(For use w/Sleeved Engines)

REF. NO.	PART NUMBER	DESCRIPTION
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FUEL PIPING AND CONNECTIONS - Continued  
(Natural Gas)  
(For use w/Sleeved Engines)



- |   |             |  |
|---|-------------|--|
| 1 | 606 859 C91 | CARBURETOR (Impco Model No. 100<br>1-1/2 x 2-5/16" (service parts will<br>be furnished in next revision) |
|   | 179 841     | BOLT, 3/8 x 1-1/4" hex hd. (2)   |
|   | 102 635     | NUT, 3/8" (2)  |
|   | 103 321     | WASHER, 3/8" lock (2)  |
| 2 | 383 376 R1  | GASKET, carburetor   |
| 3 | 678 162 C1  | TUBE, balance  |

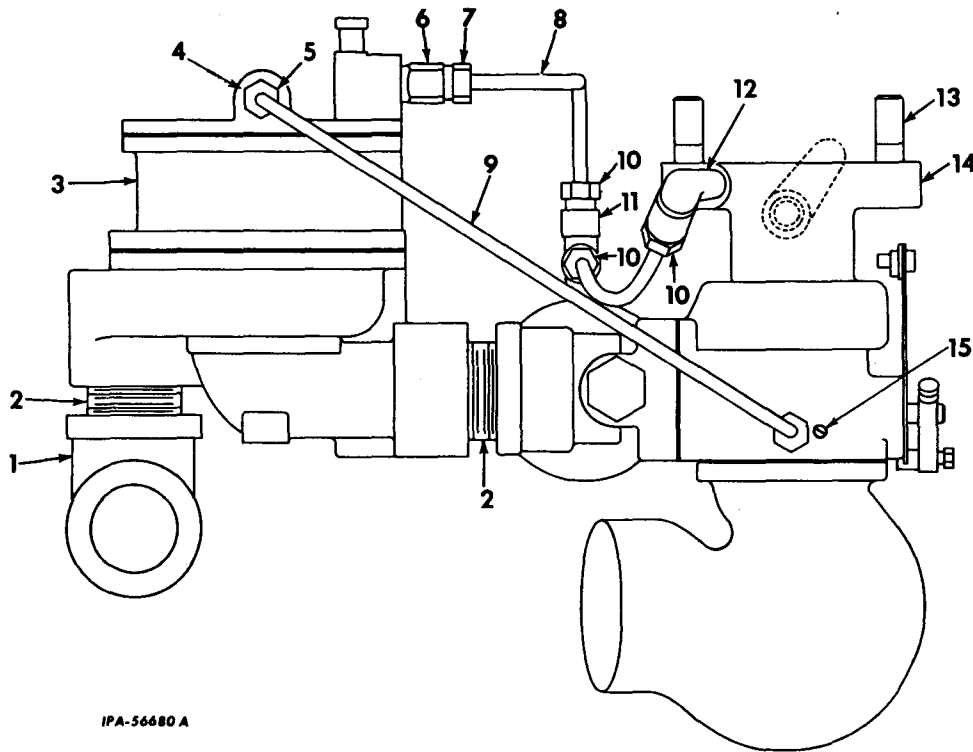
- |   |             |                                    |
|---|-------------|------------------------------------|
| 4 | 37 165 D    | NUT, tube (2)                      |
| 5 | 39 854 D    | CONNECTOR, tube (2)                |
| 6 | 673 356 C91 | VALVE, pressure                    |
| 7 | 23 174 R1   | REDUCER, 3/4 to 1/2"NPT (in valve) |
| 8 | 140 807     | NIPPLE, 1/2"NPT x 3"               |

# FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FUEL PIPING AND CONNECTIONS  
(Natural Gas) (For use w/ Sleeved Engines)

FUEL PIPING AND CONNECTIONS - Continued  
(Natural Gas) (For use w/Sleeved Engines)



IPA-56680 A

1	119 100	ELBOW, 1" x 90° pipe	13	12 215 D	STUD, carburetor (used w/CARBURETOR, 371 088 R92) (2)
2	127 874	NIPPLE, 1 x 1-1/2" pipe (2)			NUT, 3/8" (2)
3	35 816 D	REGULATOR ASSY. (Model "B" Ensign 5069) fuel (for components see list of parts under details of "Regulator")	14	309 592 R91	CARBURETOR (Model 1-1/4" XG) (Ensign XC 9174) (order CARBURETOR, 371 088 R92)
		SCREW, 5/16 x 3/4" hex hd cap (2)	14	371 088 R92	CARBURETOR w/BLEED SCREW, 268 169 R1 (Model CBX-125-A-136) (American Bosch Arma Corp) (for components see list of parts under "CARBURETOR") (will work for CARBURETOR, 309 592 R91)
		WASHER, 5/16" lock (2)			
4	36 521 D	CONNECTOR, balance tube	15	268 169 R1	SCREW, bleed (used with CARBURETOR, 371 088 R92)
5	19 983 R1	NUT, coupling balance tube		308 325 R1	BRACKET, fuel regulator support
6	36 521 D	CONNECTOR, idle tube			SCREW, 5/16 x 3/4" hex hd cap
7	19 983 R1	NUT, coupling idle tube			WASHER, 5/16" lock
8	308 326 R1	TUBE, idle		530 681 R1	GASKET, carburetor (will work for 21 632 D)
9	308 327 R1	TUBE, balance		76 950 R2	VALVE, spring retainer (6)
10		NUT, coupling idle tube (furnished with CARBURETOR, 309 592 R91) (3)			
11		TEE, (furnished with CARBURETOR, 309 592 R91)			
12		ELBOW (furnished with CARBURETOR, 309 592 R91)			
13	277 016 R1	STUD, carburetor (used w/CARBURETOR, 309 592 R91) (2)			



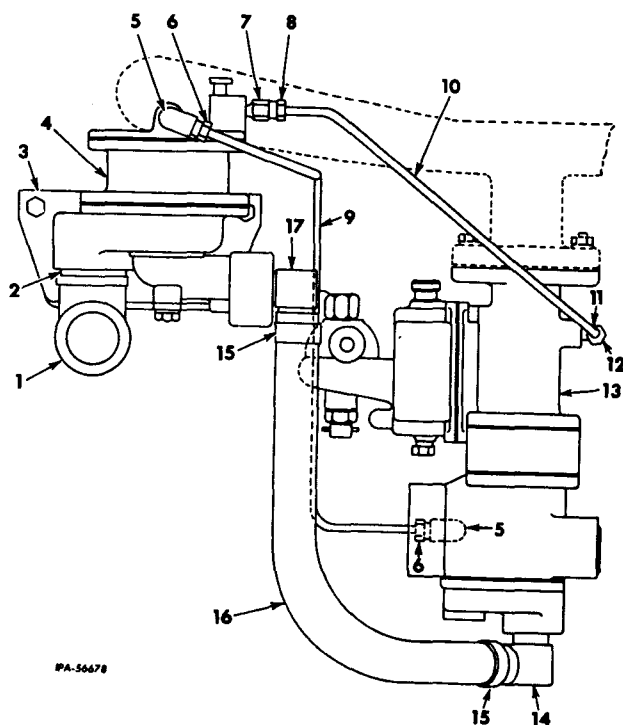
## FUEL SYSTEM

REF. PART  
NO. NUMBER DESCRIPTION

FUEL PIPING AND CONNECTIONS - Continued  
(Combination Natural Gas and Gasoline)  
C-221 501 to 43020  
C-263 501 to 53635

REF. PART  
NO. NUMBER DESCRIPTION

FUEL PIPING AND CONNECTIONS  
(Combination Natural Gas and Gasoline)  
C-221 501 to 43020  
C-263 501 to 53635



15 274 085 R91 CLAMP, hose (2)

16 305 836 R1 HOSE, fuel inlet (regulator to carburetor)

17 171 817 R1 ELBOW, 1 x 1 x 1-3/8" x 90° hose (at regulator)

11 177 V GASKET, strainer cage

36 997 V GASKET, cover plate

321 005 R1 GASKET, fuel bowl

321 006 R1 GASKET, air horn

321 004 R91 PACKAGE, carburetor field service (includes Jets, Valves, Pins and Miscellaneous Parts to service CARBURETOR, 309 593 R91)

64 837 D SEAL, dust

76 950 R2 VALVE, spring retainer (6)

1 119 100 ELBOW, 1" x 90° pipe

2 127 874 NIPPLE, 1 x 1-1/2" pipe

3 308 331 R11 BRACKET, fuel regulator mounting  
SCREW, 5/16 x 3/4" hex hd cap (2)  
WASHER, 5/16" lock (2)

4 35 816 D REGULATOR ASSY, (Model "B" Ensign 5069) (for components see list of parts under details of "Regulator")  
SCREW, 5/16 x 3/4" hex hd cap (2)  
WASHER, 5/16" lock (2)

5 32 468 H BODY, balance tube (2)

6 371 215 R1 NUT, coupling balance tube (2)

7 36 521 D BODY, (fuel regulator end)

8 371 215 R1 NUT, coupling idle

9 308 334 R1 TUBE, balance

10 308 333 R1 TUBE, idle

11 32 468 H BODY, idle (carburetor end)

12 371 215 R1 NUT, coupling

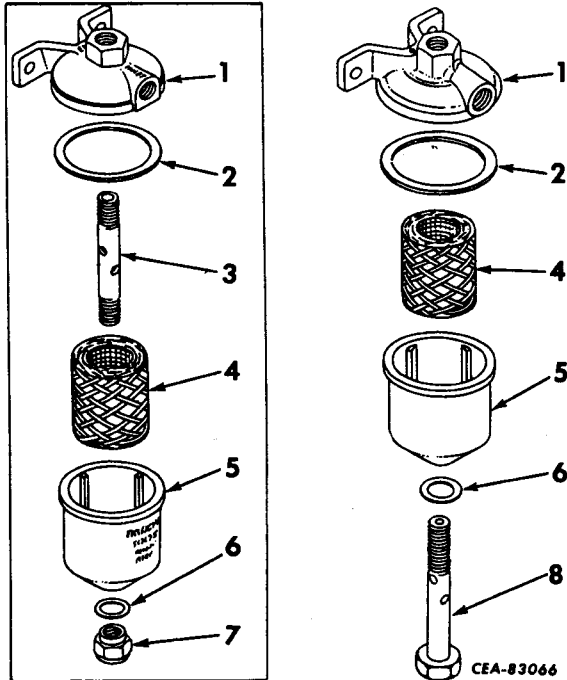
13 309 593 R91 CARBURETOR ASSY (Model 1-1/4" KGNI)  
NUT, 3/8"NF (2)  
WASHER, 3/8" lock (2)

14 171 815 R1 ELBOW, 3/4 x 1 x 1-3/8" x 90° hose (at carburetor)

## FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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**FUEL FILTER**  
(Liquefied Petroleum Gas)  
(For use w/Sleeved Engines)



A	64 147 D	FILTER ASSY, fuel (order 346 818 R91)
B	346 818 R91	FILTER ASSY, fuel (will work for 64 147 D)
1		TOP, filler (order 346 818 R91)
2	64 399 D	GASKET, filler top to filter bottom
3	64 402 D	STUD, filter (Filter A)
4	64 400 DC	ELEMENT w/GASKET, 64 399 D and GASKET, 64 401 D ASSY, filter
5		BOWL, filter (order 346 818 R91)
6	64 401 D	GASKET, filter bowl
7	64 403 D	NUT, filter stud (Filter A)
8		BOLT, filter bowl (order 346 818 R91) (Filter B)

## COOLING SYSTEM

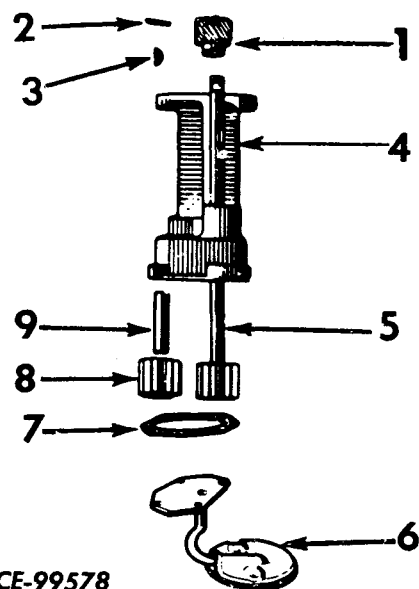
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
WATER PUMP, THERMOSTAT AND RELATED PARTS			WATER PUMP, THERMOSTAT AND RELATED PARTS - Continued		
			17	169 192 R1	ELBOW, water by-pass
			18	108 120 R92	THERMOSTAT, 167-172 degree opening temperature
			19	368 505 R1	GASKET, water outlet
			20	368 504 R1	OUTLET, water
				179 860	SCREW, 7/16 x 1-1/4" hex hd cap
				179 868	SCREW, 7/16 x 2-1/2" hex hd cap
				103 322	WASHER, 7/16" lock (2)
			374 544 R94		PACKAGE, field service, water pump
					(Composed of -
				1	GASKET 69 674 R1
				1	GASKET 69 676 R1
				1	IMPELLER 387 931 R1
				1	RETAINER 102 069 H
				1	RETAINER & SEAL 265 164 C91
				1	SEAL 73 296 R93
				1	SHAFT & BEARING ST 680 )
1	69 676 R1	GASKET, water pump			
2	69 675 R1 441 444	PLATE, water pump SCREW, 1/4 x 1/2" rd hd slit mach. (cd or zn-pltd) (3)			
3	69 674 R1	GASKET, water pump plate			
4	387 931 R1	IMPELLER, water pump (together with SEAL, 265 164 R91, will work for 332 117 R1)			
5	73 296 R93	SEAL, water pump			
6	318 118 R21	BODY w/three PLUG, 438 159 water pump			
7	438 159	PLUG, 1/2" sq hd CI pipe (3)			
8	71 351 R1	SLINGER, water pump			
9	ST 680	SHAFT and BEARING w/SLINGER, 71 351 R1, water pump			
10	102 069 H	RETAINER, bearing			
11	368 501 R2	HUB, pulley			
12	601 816 C91 179 848 179 849 103 321	PUMP ASSEMBLY, water SCREW, 3/8 x 2-1/4" hex hd cap SCREW, 3/8 x 2-1/2" hex hd cap (2) WASHER, 3/8" lock (3)			
13	304 435 R1	PULLEY, water pump (*)			
13	368 502 R1 181 309 103 319	PULLEY, water pump (not *) SCREW, 1/4NF x 1/2" hex hd cap WASHER, 1/4" lock (4)			
14	265 164 C91	RETAINER and SEAL ASSY, water pump			
15	169 193 R1	NIPPLE, water by-pass (2)			
16	240 369 R91	CLAMP, hose (2)			

(\*) - Used With Hydraulic Pump

## LUBRICATION SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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### OIL PUMP



CE-99578

379 138 R91	PUMP ASSY w/screen OIL (will work for OIL PUMP, 230 421 R91)
179 818	SCREW, 5/16 x 1" hex hd cap (2)
103 320	WASHER, 5/16" lock (2)
1	69 608 R3 GEAR, oil pump drive
2	112 011 PIN, 1/8 x 7/8" sq. end straight
3	103 905 KEY, 1/8 x 5/8" Woodruff No. 5
4	BODY, oil pump (Not Furnished Separately)
5	230 409 R91 SHAFT and GEAR ASSY, oil pump drive
6	379 139 R91 COVER and SCREEN ASSY, oil pump
179 817	SCREW, 5/16 x 7/8" hex hd cap (4)
103 320	WASHER, 5/16" medium lock (4)
7	69 607 R1 GASKET, oil pump cover
8	227 713 R1 GEAR, pump body driven
9	35 647 H SHAFT, idler gear

# LUBRICATION SYSTEM

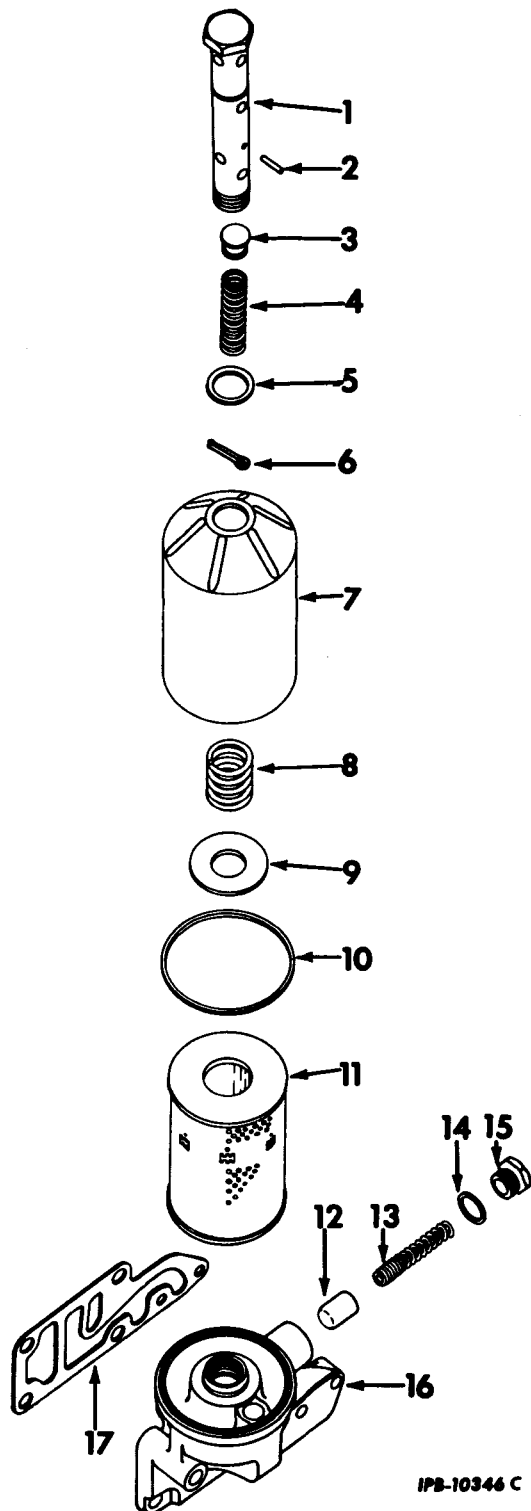
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKCASE OIL PAN AND OIL PUMP			CRANKCASE OIL PAN AND OIL PUMP - Continued		
<p>C-221-501 TO 43020 C-263-501 TO 56635</p> <p>IPA-40419A</p>			<p>12 169 679 R1 COVER, oil pump body 179 818 SCREW, 5/16 x 1" hex hd cap (4) 103 320 WASHER, 5/16" lock (4)</p> <p>13 69 607 R1 GASKET, oil pump cover</p> <p>14 35 631 H GEAR, pump body driven C-263 501 to 15879 C-261 501 to 14944</p> <p>14 277 713 R1 GEAR, pump body driven C-263 15880 Up C-261 14495 Up</p> <p>15 35 647 H SHAFT, idler gear</p> <p>16 103 905 KEY, oil pump drive gear (Woodruff No. 5)</p> <p>17 112 011 PIN, 1/8 x 7/8" sq. end straight</p> <p>18 312 157 R91 SUPPORT ASSY, oil pump shaft (will work for 278 375 R91) C-221 501 to 43020 C-263 501 to 56635 (Composed of - 1 FITTING 271 284 1 HOUSING 312 158 R1 1 PLATE 312 162 R1 1 PLUG 172 557 1 PLUG 369 013 R91 1 SHAFT 312 159 R11 )</p> <p>19 271 284 FITTING, lubrication (Alemite No. 1612B) (optional with 109 460) C-221 501 to 43020 C-263 501 to 56635</p> <p>19 109 460 FITTING, lubrication (Lincoln No. 5300) (optional with 271 284) C-221 501 to 43020 C-263 501 to 56635</p> <p>20 369 013 R1 PLUG, distributor housing C-221 501 to 43020 C-263 501 to 56635</p> <p>21 312 162 R1 PLATE, thrust C-221 501 to 43020 C-263 501 to 56635</p> <p>22 312 159 R11 SHAFT w/GEAR and WATER, support C-221 501 to 43020 C-263 501 to 56635</p> <p>23 312 158 R1 HOUSING, oil pump shaft support C-221 501 to 43020 C-263 501 to 56635</p> <p>353 937 R1 CLAMP, oil pump shaft support (used with SUPPORT, 278 375 R91) (2) 179 817 SCREW, 5/16 x 7/8" hex hd cap (2) 103 320 WASHER, 5/16" lock (2)</p> <p>353 936 R2 GASKET, oil pump shaft support (used with SUPPORT, 278 375 R91)</p> <p>143 992 PLUG, 1/4" stl. hd. pipe</p> <p>172 577 PLUG, 1-3/16" x .083" housing expansion C-221 501 to 43020 C-263 501 to 56635</p>		
1	230 421 R91	PUMP ASSY, oil (less screen) (will work for 367 811 R91) (order PUMP, 379 138 R91) (Composed of - § 1 BODY 1 COVER 169 679 R1 1 GASKET 69 607 R1 1 GEAR 69 608 R1 1 GEAR 277 713 R1 1 KEY 103 905 1 PIN 112 011 1 SHAFT 35 647 H 1 SHAFT & GEAR 230 409 R91)			
	179 818	SCREW, 5/16 x 1" hex hd, cap (2)			
	103 320	WASHER, 5/16" lock (2)			
2	69 608 R1	GEAR, oil pump drive			
3	69 606 R11	SHAFT w/GEAR, oil pump drive C-263 501 to 15879 C-261 501 to 14944			
3	230 409 R91	SHAFT w/GEAR, oil pump drive C-263 15880 Up C-261 14945 Up			
4	169 240 R1	"O" RING, 3/32 x 9/16 x 3/4" oil pump screen			
5	367 812 R91	SCREEN, oil pump			
	103 386	PIN, 1/8 x 1-1/4" cotter (phosphate coated)			
6	369 984 R1	GASKET, crankcase pan			
7	114 869 R1	REINFORCEMENT, crankcase oil pan C-263 501 to 14924 C-221 501 to 14469			
8	367 575 R92	PAN ASSY w/GASKET, 3 405 H and PLUG, 445 096 crankcase oil			
9	445 096	PLUG, crankcase oil pan drain			
10	3 405 H	GASKET, oil pan drain plug			
11	179 816	SCREW, 5/16 x 3/4" hex hd cap (25)			
	103 320	WASHER, 5/16" lock (20)			
	103 340	WASHER, 11/32 x 11/16" x 16 ga. (5)			

§ - Not Furnished Separately

# LUBRICATION SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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OIL FILTER  
C-221 501 to 43020  
C-263 501 to 56635



IPB-10346 C

REF. NO.	PART NUMBER	DESCRIPTION
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OIL FILTER - Continued  
C-221 501 to 43020  
C-263 501 to 56635

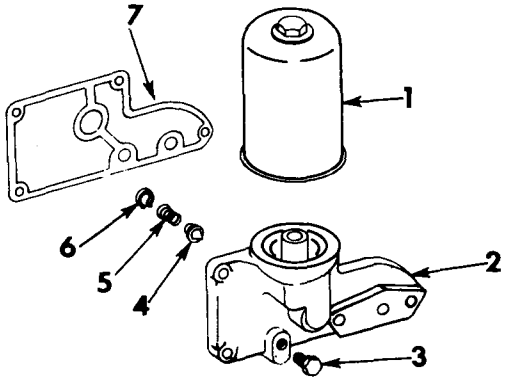
	371 236 R91	FILTER ASSY, oil (consists of the following parts)
1	304 005 R91	TUBE w/PIN, 17 141 R1, SPRING, 304 009 R1 and VALVE, 304 008 R1, oil filter center
2	17 141 R1	PIN, by-pass valve and spring retainer (5/32 x 1" Esna)
3	304 008 R1	VALVE, oil filter by-pass
4	304 009 R1	SPRING, oil filter by-pass valve
5	304 012 R1	GASKET, center tube
6	103 364	PIN, 1/16 x 1-1/4" cotter
7	303 998 R1	CASE, oil filter
8	304 011 R1	SPRING, oil filter element retaining
9	304 010 R1	WASHER, oil filter element retaining spring
10	304 854 R1	GASKET, oil filter case (will work for 193 527 R1)
11		ELEMENT, oil filter (Not Furnished Separately)(order PACKAGE, 323 827 R91)
12	61 261 VA	VALVE, oil pressure relief
13	49 946 HA	SPRING, oil pressure relief valve
14	3 405 H	GASKET, oil pressure relief valve cap
15	61 263 VA	CAP, oil pressure relief valve
16	371 237 R11	BASE ASSEMBLY, oil filter (Composed of - § 1 BASE 1 CAP 61 263 VA 1 GASKET 3 405 H 1 PLUG 444 576 1 SPRING 49 946 HA 1 VALVE 61 261 VA )
	179 823	SCREW, 5/16 x 1-5/8" hex hd cap (2)
	179 858	SCREW, 7/16 x 1" hex hd .cap
	179 864	SCREW, 7/16 x 1-3/4" hex hd cap
	103 322	WASHER, 7/16" lock (2)
17	371 238 R1	GASKET, oil filter base (not furnished as part of 371 236 R91)
	444 576	PLUG, 1/4" hex hd pipe drain
	323 827 R91	PACKAGE, field service filter (consists of ELEMENT, 279 994 R91 and GASKET, 304 854 R1)

§ - Not Furnished Separately

## LUBRICATION SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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OIL FILTER (For Sleeveless Engines)  
(Spin-On)

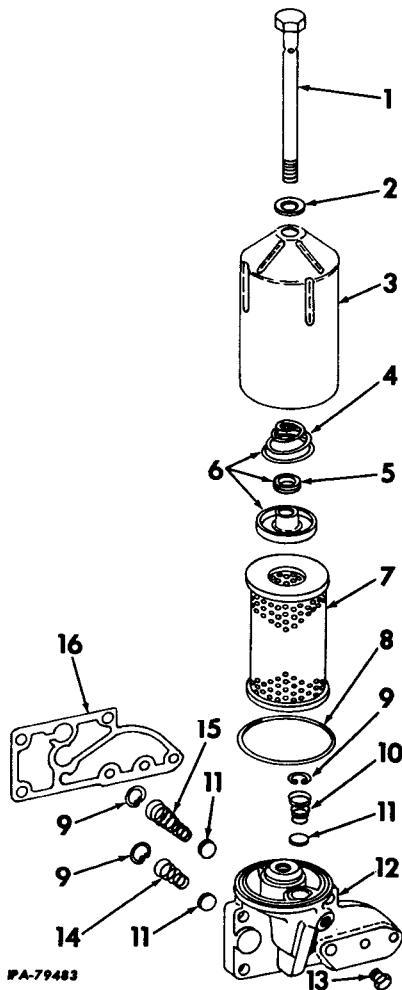


CE-99579

534 178 R91	FILTER ASSEMBLY, oil (Consists of the following parts)
1 398 080 R2	ELEMENT, spin-on oil filter
2	BASE w/INSERT, oil filter (Not Furnished Separately)
179 822	SCREW, 5/16 x 1-1/2" hex hd. cap (2)
179 860	SCREW, 7/16 x 1-1/4" hex hd. cap (3)
179 862	SCREW, 7/16 x 1-1/2" Hex hd. cap
103 320	WASHER, 5/16" med. lock (2)
3 397 299 R1	PLUG, oil filter base
4 534 180 R1	VALVE, pressure regulating
5 384 526 R2	SPRING, pressure regulating
6 303 322 R1	RING, spring snap
7 534 196 R1	GASKET, oil filter base

# LUBRICATION SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
OIL FILTER (For Sleeved Engines)			OIL FILTER - Continued (For Sleeved Engines)		



8	304 854 R1	GASKET, oil filter case
9	303 322 R1	RING, snap
10	384 525 R1	SPRING, check valve
11	384 528 R2	VALVE, lubricating oil filter base (3)
12	384 523 R12	BASE ASSY, oil filter (order FILTER ASSY, 534 178 R91 and one base GASKET, 534 196 R1) (Composed of - § 1 BASE 1 PLUG 397 299 R1 3 RING 303 322 R1 1 SPRING 384 525 R1 1 SPRING 384 526 R2 1 SPRING 384 527 R1 3 VALVE 384 528 R2 179 822 SCREW, 5/16 x 1-1/2" hex hd cap (2) 179 860 SCREW, 7/16 x 1-1/4" hex hd cap (3) 179 862 SCREW, 7/16 x 1-1/2" hex hd cap 103 320 WASHER, 5/16" lock (2)
13	397 299 R1	PLUG, oil filter base (will work for 444 618)
14	384 526 R2	SPRING, pressure regulating
15	384 527 R1	SPRING, element by-pass
16	384 537 R2	GASKET, oil filter base
323 827 R91	PACKAGE, field service filter (Consists of ELEMENT, 279 994 R91 and GASKET, 304 854 R1)	

384 522 R92	FILTER ASSY, oil (Consists of the following parts)
1 384 530 R11	TUBE, oil filter center
2 384 532 R1	GASKET, center tube
3 384 529 R1	CASE, lubricating oil filter
4 384 526 R2	SPRING, element hold-down
5 384 535 R1	GROMMET, element retaining washer
6 384 533 R91	RETAINER ASSY, element (consists of GROMMET, 384 535 R1, SPRING, 384 536 R1 and WASHER)
7	ELEMENT, oil filter (Not Furnished Separately) (order PACKAGE, 323 827 R91)

§ - Not Furnished Separately



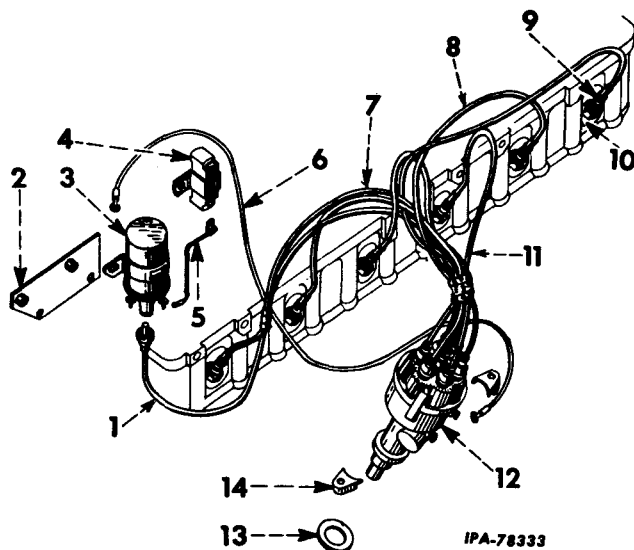
# MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ASSORTED GASKET SETS (Engine)			ASSORTED GASKET SETS - Continued (Engine)		
372 770 R95		GASKET SET, valve grinding includes 8 gaskets as follows -	310 665 R1		PLUG, rear bearing cap (2)
530 681 R1		GASKET, carburetor	352 221 R1		SEAL, oil pump screen "O" ring
164 418 R1		GASKET, cylinder head			
400 878 R1		GASKET, intake and exhaust manifold			
85 868 R1		GASKET, intake to exhaust manifold			
369 983 R2		GASKET, valve cover			
368 505 R1		GASKET, water outlet			
164 420 R1		GROMMET, valve cover			
111 024 R1		SEAL, intake valve stem			
866 834 R1		DEFLECTOR, intake and exhaust valve stem oil			
400 899 R92		GASKET SET, engine includes 23 gaskets as follows -			
369 981 R1		GASKET, breather pipe			
378 237 R1		GASKET, crankcase front cover			
367 574 R1		GASKET, crankcase front cover			
398 024 R1		GASKET, crankcase front plate			
369 984 R1		GASKET, crankcase pan			
353 936 R2		GASKET, distributor			
42 965 V		GASKET, filter drain plug			
532 496 R1		GASKET, fuel pump			
367 669 R1		GASKET, governor housing			
632 851 R1		GASKET, hydraulic pump flange			
371 238 R1		GASKET, oil filter base (for iron base)			
384 537 R2		GASKET, oil filler base (for Aluminum base)			
304 854 R1		GASKET, oil filter case			
384 532 R1		GASKET, oil filter center tube			
3 405 H		GASKET, oil pan drain plug			
3 405 H		GASKET, oil pressure relief valve cap			
69 607 R1		GASKET, oil pump cover (2)			
369 982 R1		GASKET, valve push rod cover			
69 674 R1		GASKET, water pump plate			
69 676 R1		GASKET, water pump			
384 535 R1		GROMMET, element retainer washer			
352 221 R1		"O" RING, oil pump screen seal			
320 273 R91		PACKAGE, oil filter center tube gasket			
103 364		PIN, retaining spring washer PIN, 1/16 x 1-1/4" cotter			
			PRODUCT GRAPHICS		
			The following identification and instructional Product Graphics are available for the UC-221 and UC-263 Engines:		
			2 752 477 R1		PRODUCT GRAPHIC, air cleaner instructions
			2 751 188 R1		PRODUCT GRAPHIC, air cleaner instructions
			1 001 071 R2		PRODUCT GRAPHIC, generator warning
			2 752 048 R1		PRODUCT GRAPHIC, engine shut-down
			2 751 259 R1		PRODUCT GRAPHIC, "International" (2)
			2 754 371 R1		PRODUCT GRAPHIC, "I.H.C. of Canada, Ltd."
			2 751 533 R1		PRODUCT GRAPHIC, flo-matic
			2 752 445 R1		PRODUCT GRAPHIC, control switch escutcheon
			2 753 190 R1		PRODUCT GRAPHIC, "Made in the United States of America"
			2 751 470 R1		PRODUCT GRAPHIC, model symbol "UC-221" (2)
			2 751 476 R1		PRODUCT GRAPHIC, model symbol "UC-263" (2)

# ELECTRICAL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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## SPARK PLUGS, COIL, CABLES AND DISTRIBUTOR (Battery Ignition)



1	66 711 R92	CABLE, coil to distributor (high tension) (for use with COIL, Delco-Remy No. 1115098)
1	318 437 R91	CABLE, coil to distributor (high tension) (for use with COIL, Delco-Remy No. 1115082)
2	312 118 R11	BRACKET, ignition coil (for use with COIL, Delco-Remy No. 1115098) SCREW, 5/16 x 5/8" hex hd cap (2) WASHER, 5/16" lock (2) WASHER, 11/32" copper (2) SCREW, 7/16 x 1/2" hex hd cap (3) (assembled in left front of cylinder head) WASHER, 15/32" copper (3) (assembled in left front of cylinder head)
2	370 534 R11	BRACKET, ignition coil (for use with COIL, Delco-Remy No. 1115082) SCREW, 7/16 x 1/2" hex hd cap (2) SCREW, 7/16 x 7/8" hex hd cap (2) WASHER, 7/16" lock (2) (assembled in left front of cylinder head) WASHER, 15/32" lock (2) (assembled in left front of cylinder head)
3		COIL, ignition (Delco-Remy No. 1115082) NUT, No. 10NF cd-pltd. (2) SCREW, 5/16 x 1/2" hex hd cap (2) WASHER, No. 10 cd-pltd, lock (2) WASHER, 11/32 x 11/16" x 16 ga.
3		COIL, ignition (Delco-Remy No. 1115098) SCREW, 5/16 x 5/8" hex hd cap WASHER, 5/16" lock (2) SCREW, 5/16 x 3/4" hex hd cap
4		RESISTOR, ignition coil (Delco-Remy No. 1957154) (together with SPACER, 31 987 D) (will work for resistor, Delco-Remy No. 1928016)
5	370 594 R91	CABLE, coil to resistor

REF. NO.	PART NUMBER	DESCRIPTION
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## SPARK PLUGS, COIL, CABLES AND DISTRIBUTOR - Continued (Battery Ignition)

6	69 700 R91	CABLE, coil to distributor primary (for use with COIL, Delco-Remy No. 1115098)
6	368 267 R91	CABLE, coil to distributor primary (for use with COIL, Delco-Remy No. 1115082)
7	312 354 R91	CABLE, spark plug (No. 1 and 6) (2)
8	266 263 R91	CABLE, spark plug (No. 2 and 5) (2)
9		SPARK PLUG (Champion D-182) (light or moderate service)(*) (6)
9		SPARK PLUG (Prestolite 18-82) (light or moderate service)(*) (6)
9		SPARK PLUG (Champion D-16) (intermediate service)(*) (6)
9		SPARK PLUG (Prestolite 18-81) (intermediate service)(*) (6)
9		SPARK PLUG (Champion 8 com.) (normal service)(*) (6)
9		SPARK PLUG, (AC-85) (normal service)(*) (6)
9		SPARK PLUG (Auto-Lite BT-8) (normal service)(*) (6)
9		SPARK PLUG (Prestolite 18-8) (normal service)(*) (6)
9		SPARK PLUG (Champion D-9) (severe service) (*) (6)
9		SPARK PLUG (AC-C83) (severe service) (*) (6)
9		SPARK PLUG w/GASKET, 37 762 H (normal service) (Champion D-15Y) (6) (%)
9		SPARK PLUG (Auto-Lite BT-4) (severe service) (*) (6)
9		SPARK PLUG (Prestolite 18-3) (severe service) (*) (6)
9		SPARK PLUG (Champion D-6) (extreme severe service) (*) (6)
9		SPARK PLUG (AC-C81) (extreme severe service) (*) (6)
9		SPARK PLUG (Auto-Lite BT-3) (extreme severe service) (*) (6)
9		SPARK PLUG (Prestolite 18-2) (extreme severe service) (*) (6)
10	37 762 H	GASKET, spark plug (6)
11	318 056 R91	CABLE, spark plug (No. 3 and 4) (2)

(\*) - For Use with Gasoline and Combination Gas or Gasoline Engines.

(%) - For Use with Natural Gas And Liquefied Petroleum Gas Engines.

## ELECTRICAL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
SPARK PLUGS, COIL, CABLES AND DISTRIBUTOR - Continued (Battery Ignition)		
12		DISTRIBUTOR ASSY (for components see list of parts under details of "Distributor")
13	353 936 R2	GASKET, distributor
14	353 937 R1	CLAMP, distributor (2) SCREW, 5/16 x 7/8" hex hd cap (2) WASHER, 5/16" lock (2)
15	370 535 R1	CLIP, coil to distributor cable (for use with COIL, 1115082)
	324 460 R1	RETAINER, spark plug wire (2)
	31 987 D	SPACER (for use with resistor Delco-Remy No. 1957154 only)

# ELECTRICAL SYSTEM

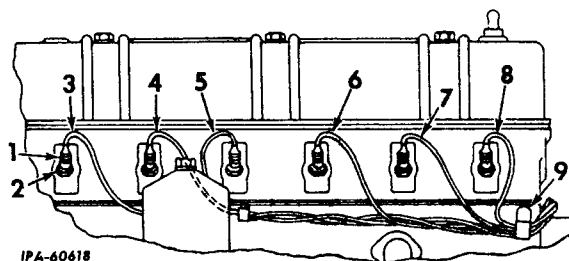
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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## SPARK PLUGS AND CABLES

(Magnetto Ignition)  
C-221 501 to 43020  
C-263 501 to 56635

## SPARK PLUGS AND CABLES - Continued

(Magnetto Ignition)  
C-221 501 to 43020  
C-263 501 to 56635



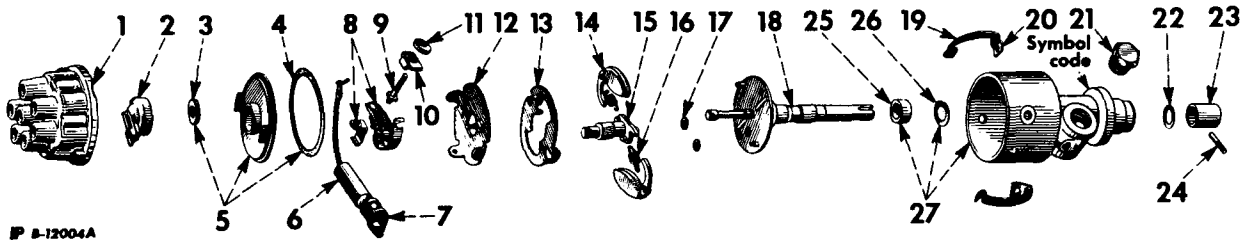
1		SPARK PLUG (Champion D-23) (light or moderate service) (*) (6)	3	310 964 R91	CABLE, magneto high tension (cylinder No. 1)
1		SPARK PLUG (AC-88S com.) (light or moderate service) (*) (6)	4	310 965 R91	CABLE, magneto high tension (cylinder No. 2)
1		SPARK PLUG (Auto-Lite BT-10) (light or moderate service) (*) (6)	5	310 966 R91	CABLE, magneto high tension (cylinder No. 3)
1		SPARK PLUG (Champion D-16) (intermediate service) (*) (6)	6	310 967 R91	CABLE, magneto high tension (cylinder No. 4)
1		SPARK PLUG (Champion 8 com.) (normal service) (*) (6)	7	310 968 R91	CABLE, magneto high tension (cylinder No. 5)
1		SPARK PLUG (AC-85S) (normal service) (*) (6)	8	310 969 R91	CABLE, magneto high tension (cylinder No. 6)
1		SPARK PLUG (Auto-Lite BT-8) (normal service) (*) (6)	9	308 579 R1	CLIP, spark plug cable (2) SCREW, 5/16 x 5/8" hex hd cap WASHER, 5/16" lock
1		SPARK PLUG (Champion 5 com.) (severe service) (*) (6)			
1		SPARK PLUG (AC-83S com.) (severe service) (*) (6)			
1		SPARK PLUG (Auto-Lite BT-4) (severe service) (*) (6)			
1		SPARK PLUG (Champion 4 com.) (extreme severe service) (*) (6)			
1		SPARK PLUG (Ac-81S com.) (extreme severe service) (*) (6)			
1		SPARK PLUG (auto-Lite BT-3) (extreme severe service) (*) (6)			
1		SPARK PLUG (B. G. Corp RB-485) (long life) (%) (6)			
1		SPARK PLUG (Champion D-6) (long life) (%) (6)			
1		SPARK PLUG (AC-C-81) (long Life) (%) (6)			
1		SPARK PLUG (Auto-Lite BT-3) (long life) (%) (6)			
2	37 762 H	GASKET, spark plug (6)			

(\*) - For Use with Gasoline and  
Combination Gas or Gasoline  
Engines.

(%) - For Use with Natural Gas and  
Liquefied Petroleum Gas Engines.

# ELECTRICAL SYSTEM

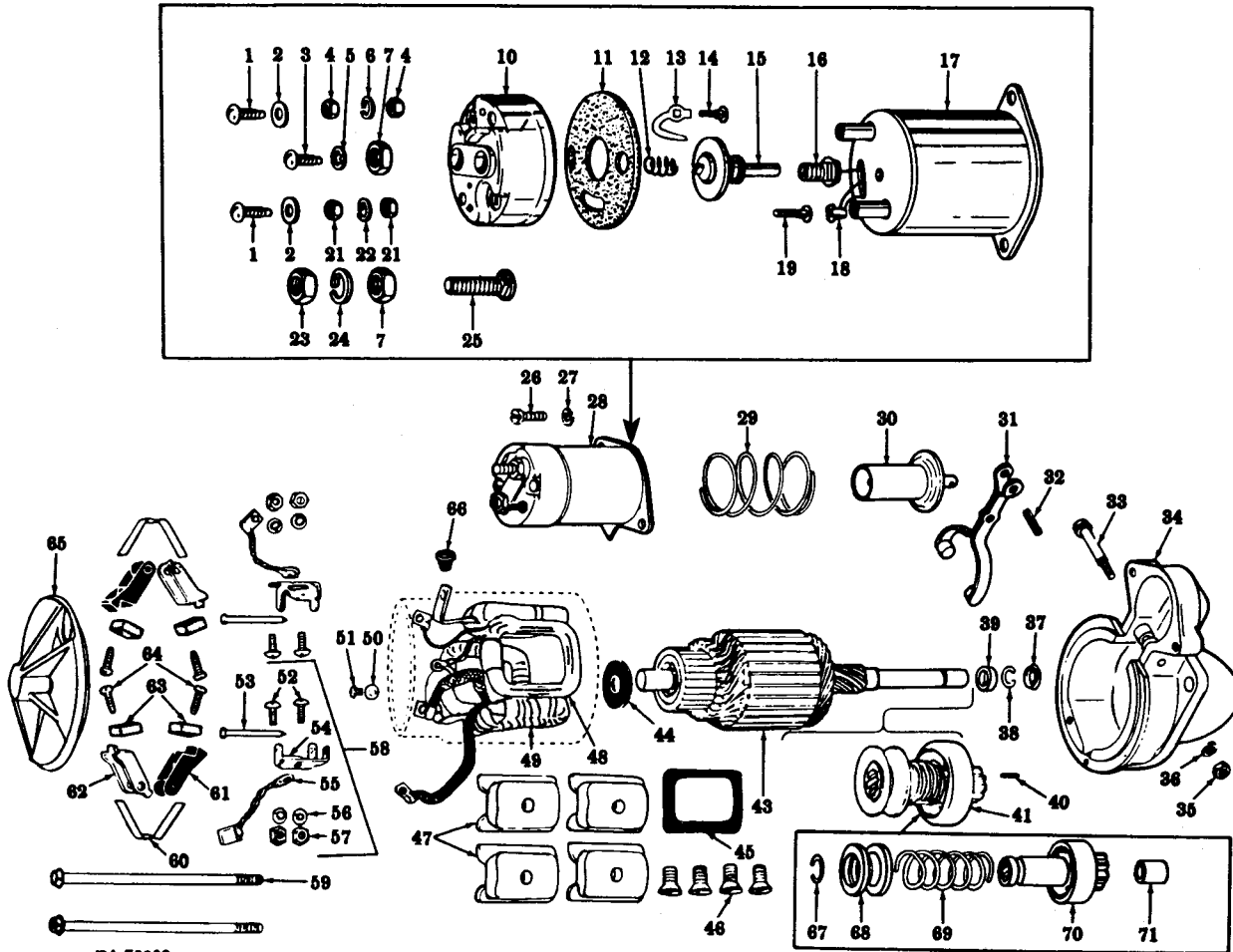
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
DISTRIBUTOR			DISTRIBUTOR - Continued		



367 839 R92	DISTRIBUTOR ASSY (order 372 867 R92) C-221 501 to 43020 C-263 501 to 56635	13 353 920 R1	GUARD, governor weight SCREW, No. 8 x 3/16" slt. fil. hd. mach. (2) WASHER, No. 8 lock (2)
372 867 R92	DISTRIBUTOR ASSY (will work for 367 839 R92) C-221 501 to 43020 C-263 501 to 56635	14 353 917 R91	ARM, weight (2)
383 177 R91	DISTRIBUTOR ASSY C-221 43021 Up	15 356 192 R91	CAM
388 592 R91	DISTRIBUTOR ASSY C-263 56636 Up	16 368 102 R91	SPRING, governor (set of two) (used with DISTRIBUTOR, 367 839 R92)
1 368 062 R91	CAP, distributor	16 373 331 R91	SPRING, governor (set of two) (used with DISTRIBUTOR, 372 867 R92)
2 353 896 R91	ROTOR, distributor	16 373 963 R91	SPRING, governor (set of two) (used with DISTRIBUTOR, 388 592 R91)
3 353 901 R2	SEAL, breaker cover felt	16 372 963 R91	SPRING, governor (set of two) (used with DISTRIBUTOR, 383 177 R91)
4 384 830 R1	GASKET, cover	17 352 293 R1	SPACER, weight arm (4)
5 384 831 R11	COVER w/SEAL, 353 901 R2 and GASKET, 384 830 R1, BREAKER	18 368 059 R91	SHAFT, distributor (used with DISTRIBUTOR, 367 839 R92 and 372 867 R92)
6 353 903 R92	CONDENSER	18 388 593 R91	SHAFT, distributor (used with DISTRIBUTOR, 388 592 R91)
7 353 905 R1	CLAMP, condenser SCREW, No. 8 x 3/16" slt. fil. hd. mach. WASHER, No. 8 lock	18 383 178 R91	SHAFT, distributor (used with DISTRIBUTOR, 383 177 R91)
8 353 172 R91	POINT SET, breaker arm and stationary (used with DISTRIBUTOR, 367 839 R92)	19 368 096 R1	SPRING, distributor cap (2)
8 372 951 R91	POINT SET, breaker arm and stationary (used with DISTRIBUTOR, 372 867 R92, 383 177 R91 and 388 592 R91) SCREW, No. 8 x 3/16" slt. pan hd. mach. 21 394 D WASHER, stationary point terminal	20 353 895 R1	SUPPORT, distributor cap spring (2) SCREW, No. 8 x 3/8" slt. rd. hd. mach. (2) WASHER, No. 8 lock (2)
9 353 907 R1	SCREW, terminal	21 369 013 R1	PLUG, distributor housing (not used with TACHOURMETER ATTACHMENT)
10 353 906 R1	INSULATOR, spring anchor terminal	22 368 054 R1	WASHER, distributor thrust lower
11 251 538 R1	WASHER, terminal insulating NUT, No. 8 type "F" (3) WASHER, No. 8 lock (3)	23 368 053 R1	COLLAR, distributor shaft
12 352 277 R11	PLATE, breaker (used with DISTRIBUTOR, 367 839 R92)	24 354 552 R1	PIN, distributor shaft collar
12 372 868 R11	PLATE, breaker (used with DISTRIBUTOR, 372 867 R92, 383 177 R91 and 388 592 R91) SCREW, No. 8 x 3/8" rd. hd. slt. mach. WASHER, No. 8 lock	25 368 057 R91	OIL SEAL, distributor shaft
		26 368 055 R1	WASHER, distributor thrust upper
		27 368 051 R11	HOUSING w/WASHER, 368 055 R1, and OIL SEAL, 368 057 R91, distributor 125 947 PLUG, 1/8" slt hdls. pipe
		355 460 R1	FELT, cam oil hole
		21 372 D	TUBE, of distributor grease

# ELECTRICAL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKING MOTOR ASSY (Delco-Remy)			CRANKING MOTOR ASSY - Continued Delco-Remy)		



PA-78339

A	1 107 350	MOTOR ASSY, cranking (for use with sleeved engines)	10	1 963 525	COVER, switch
B	1 107 308	MOTOR ASSY, cranking (for use with sleeveless engines)	11	1 966 034	INSULATOR, cover
	120 377	NUT, 3/8"	12	1 853 342	SPRING contact return
	120 622	NUT, #8	13	1 935 645	CONTACT ("R" terminal)
	120 614	NUT, #10NF	14	1 950 069	STUD ("R" terminal) #10NF
	179 841	SCREW, 3/8 x 1-1/4" hex hd cap (3)	15	1 956 226	CONTACT w/PUSH ROD
	103 321	WASHER, 3/8" lock (cd or zn-pltd) (3)	16	1 955 499	STUD, 3/8" terminal
	120 382	WASHER, 3/8" lock (cd or zn-pltd)	17		Not Furnished Separately
	121 841	WASHER, #8 lock (cd or zn-pltd.)	18	1 949 538	CLIP ("S" terminal)
	120 217	WASHER, #10 lock (cd or zn-pltd.)	19	1 950 069	STUD, ("S" terminal)
1	453 468	SCREW, #10NF x 7/16" slt. rd. hd. (2)	21	453 433	NUT, #10NF ("S" terminal) (2)
2	1 923 935	WASHER, cover attaching screw (2)	22	1 946 143	WASHER, lock
3	9 413 474	SCREW, field lead attaching	23	1 904 419	NUT, 3/8" (2)
4	453 433	NUT, #10NF ("R" terminal) (2)	24	9 421 425	WASHER, 3/8" lock
5	456 319	WASHER, #10 internal lock			
6	1 946 143	WASHER, lock			
7	134 566	NUT, 3/8" (2)			

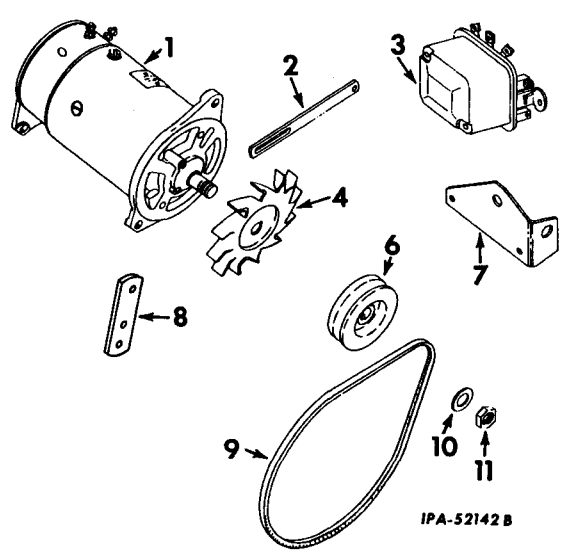
Always Give Cranking Motor Number When Ordering Parts.

# ELECTRICAL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKING MOTOR ASSY - Continued (Delco-Remy)			CRANKING MOTOR ASSY - Continued (Delco-Remy)		
25	1 960 244	STUD, 3/8" terminal	54		SUPPORT (Not Furnished Separately)
26	132 255	SCREW, 1/4 x 1/2" slt. rd. hd. (2)	55	1 926 605	LEAD, brush ground (2)
27	9 421 423	WASHER, 1/4" lock (2)	56	453 435	WASHER, #10 lock (4)
28	1 114 356	SWITCH ASSEMBLY	57	120 361	NUT, #10 (4)
29	1 958 679	SPRING, plunger return	58	1 928 015	KIT, brush holder support (2)
30	1 941 113	PLUNGER, solenoid switch	59	1 939 970	BOLT, thru (2)
31	1 951 567	LEVER, shift	60	1 926 622	SPRING, brush (2)
32	455 106	PIN, shift lever	61	1 926 618	HOLDER, brush insulated (2)
33	1 932 197	STUD, shift lever	62	1 940 477	HOLDER, brush ground (2)
34	1 966 914	HOUSING w/BUSHING, 1 862 383, drive	63	1 906 945	BRUSH
	1 862 383	BUSHING, drive end (for cranking motor assy "A")	64	1 967 747	SCREW, brush attaching (4)
34	1 962 932	HOUSING w/BUSHING, 1 839 345 drive	65	1 928 966	FRAME, commutator end
	1 839 345	BUSHING, drive end (for cranking motor assy "B")	66	1 966 391	GROMMET, lead (in field frame)
35	1 926 640	NUT, shift lever stud	67	1 904 436	RING, snap
36	1 953 479	WASHER, shift lever stud	68		COLLAR, motor drive (Not Furnished Separately)
37	1 838 568	COLLAR, drive end spacing	69	801 198	SPRING, motor drive
38	1 928 022	RING, pinion stop retainer (drive end)	70		GEAR, (Not Furnished Separately)
39	1 928 021	COLLAR, pinion stop (drive end)	71	1 873 796	BUSHING, oilless
40	809 593	PIN, dowel (drive end)		1 962 606	BUSHING, center bearing (for cranking motor assy "B")
41	1 952 410	DRIVE ASSY, motor		1 962 602	PLATE, center bearing (for cranking motor assy "B")
43	1 950 307	ARMATURE		820 149	PLATE, center bearing (for cranking motor assy "A")
44	1 914 842	WASHER, commutator end spacing (part of cranking motor assy "A")		821 453	WASHER (between center bearing and motor drive)
44	818 265	WASHER, commutator end spacing (part of cranking motor assy "B")		1 916 439	WICK (drive end) (for cranking motor assy "A")
45	1 927 853	INSULATION, field coil (4)			
46	1 913 960	SCREW, pole shoe (4)			
47	1 931 129	SHOE, pole shoe (4)			
48	1 935 131	COIL, field shunt (for use w/cranking motor assy "A") only			
49	1 935 128	COIL, field (3 coils) (part of cranking motor assy "A")			
49	1 967 968	COIL, field (3 coils) (part of cranking motor assy "B")			
50	1 962 276	WASHER, lock (center bearing attaching) (2)			
51	132 900	SCREW, center bearing attaching (2)			
52	274 738	SCREW, brush holder support attaching (4)			
53	1 938 058	PIN, support attaching (part of cranking motor assy "A") (2)			
53	1 966 923	PIN, support attaching (part of cranking motor assy "B") (2)			

Always Give Cranking Motor Number  
When Ordering Parts.

# ELECTRICAL SYSTEM

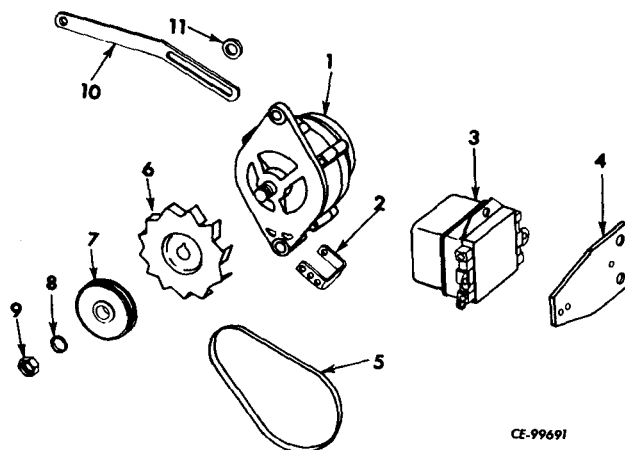
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GENERATOR, VOLTAGE REGULATOR AND CONNECTIONS (For use w/Sleeved Engines)			GENERATOR, VOLTAGE REGULATOR AND CONNECTIONS - Continued (For use w/ Sleeve Engines)		
			9 316 250 R1 BELT, water pump and generator fan (not *) 9 312 515 R1 BELT, fan (*) 10 WASHER, generator drive shaft lock 11 NUT, generator drive shaft 318 434 R91 ATTACHMENT, generator and regulator (for use with hydraulic pump) (see NOTES 1 and 3) (Consists of - 1 BRACKET 315 722 R1 1 BRACE 312 514 R1 1 BRACKET 318 024 R2 1 CLIP 263 515 R1 1 FAN 312 515 R91 1 FAN (Delco-Remy No. 1944437) 1 GENERATOR (Delco-Remy No. 1102034) 1 HARNESS 265 191 R91 1 PULLEY (Delco-Remy No. 1946716) 1 REGULATOR (Delco-Remy No. 1118999)		
1		GENERATOR ASSY (Delco-Remy No. 1102034) (12 volt) (for components see list of parts under details of "Generator") (*)	263 515 R91		CLIP, harness
2	312 514 R1	BRACE, generator adjusting (*) SCREW, 7/16 x 1-1/8" hex hd cap WASHER, 7/16" lock	265 191 R91		HARNESS, generator to regulator
2	312 068 R1 61 252 H	STRAP, generator adjusting (not *) SPACER, generator adjusting SCREW, 7/16 x 3/4" hex hd cap WASHER, 7/16" lock			
3		REGULATOR, voltage (Delco-Remy No. 1118999) (12 volt) (for components see list of parts under details of "Voltage Regulator") NUT, 1/4" NF (2) SCREW, 1/4" NF x 3/4" hex hd cap (2) WASHER, 1/4" lock (2)			
4		FAN, generator (Delco-Remy No. 1944437)			
6		PULLEY, generator (Delco-Remy No. 1946716)			
7	315 722 R1	BRACKET, regulator (*) SCREW, 1/2 x 1-3/8" hex hd cap (2) WASHER, 1/2" lock (2)			
7	312 069 R2 277 006 R1	BRACKET, voltage regulator (Not *) SPACER, voltage regulator SCREW, 1/2 x 1-1/4" hex hd cap SCREW, 5/8 x 3/4" hex hd cap WASHER, 1/2" lock WASHER, 5/8" lock			
8	367 661 R1	BRACKET, generator (not *) SCREW, 5/16 x 1" hex hd cap (2) WASHER, 5/16" lock (2)			
8	318 024 R2	BRACKET, rear generator (*) SCREW, 5/16 x 1" hex hd cap WASHER, 5/16" lock			
					(*) - Used On Units Equipped With Hydraulic Pump.
					NOTE 1 - Factory Application - Order On Machine Order Form.
					NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



# ELECTRICAL SYSTEM

REF. PART  
NO. NUMBER DESCRIPTION

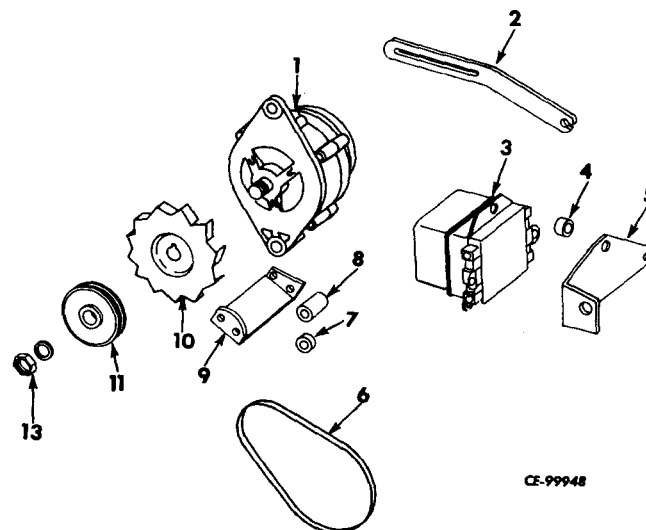
ALTERNATOR, VOLTAGE REGULATOR AND  
RELATED PARTS  
(For Sleeveless engines w/Hydraulic Pump)



CE-99691

REF. PART  
NO. NUMBER DESCRIPTION

ALTERNATOR, VOLTAGE REGULATOR AND  
RELATED PARTS  
(For Sleeveless Engines w/o Hydraulic Pump)



CE-99948

1		ALTERNATOR ASSY (12 volt-32 amp negative ground) (for components see list of parts under details of "Alternator")
186 282		BOLT, 3/8 x 3" hex hd.
102 635		NUT, 3/8"
103 321		WASHER, 3/8" lock
2	384 995 R1	BRACKET, alternator
	179 824	BOLT, 5/16 x 1-3/4" hex hd.
	179 845	BOLT, 3/8 x 1-3/4" hex hd.
	384 996 R1	SPACER, alternator
	103 320	WASHER, 5/16" lock
	103 321	WASHER, 3/8" lock
3		REGULATOR, voltage (12 volt) (for components see list of parts under details of "Voltage Regulator")
	180 020	BOLT, 1/4 x 3/4" hex hd. (2)
	120 375	NUT, 1/4" (2)
	174 916	WASHER, 1/4" lock (2)
4	315 722 R2	BRACKET, voltage regulator mtg.
	179 884	BOLT, 1/2 x 1-3/8" hex hd. (2)
	103 323	WASHER, 1/2" lock (2)
5	385 674 R1	BELT, alternator
6	221 425 R1	FAN, alternator
7		PULLEY, alternator (Delco-Remy No. 1961261)
8		WASHER, alternator drive shaft lock
9		NUT, alternator drive shaft
10	384 997 R1	BRACE, alternator adjusting
	199 860	BOLT, 7/16 x 1-1/4" Hex hd.
	179 819	BOLT, 5/16 x 1-1/8" hex hd.
	61 252 H	SPACER, (at water outlet)
	103 320	WASHER, 5/16" lock
11	280 185 R1	SPACER, brace
	179 858	BOLT, 7/16 x 1" hex hd.
	103 322	WASHER, 7/16" lock
	263 515 R91	CLIP, cable (on upper regulator mounting bolt)

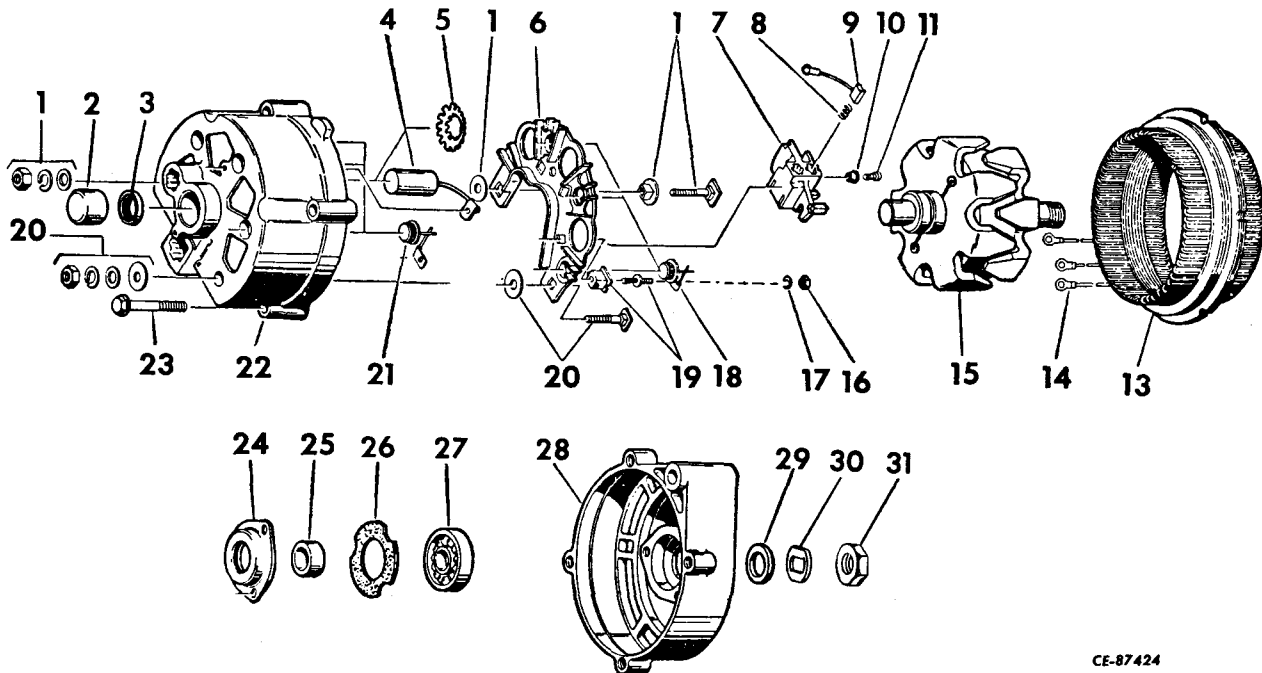
1		ALTERNATOR ASSY (12 volt 32 amp negative ground) (for components see list of parts under details of "Alternator")
	186 314	BOLT, 3/8 x 4-1/4" hex hd.
	144 419 H	NUT, 3/8" Esna stop
2	680 957 C1	BRACE, alternator adjusting
	179 819	BOLT, 5/16 x 1-1/8" hex hd.
	179 860	BOLT, 7/16 x 1-1/4" hex hd.
	61 252 H	SPACER (at water outlet)
	280 185 R1	SPACER, brace (at alternator)
	103 320	WASHER, 5/16" lock
	103 322	WASHER, 7/16" lock
3		REGULATOR, voltage (12 volt) (for components see list of parts under details of "Voltage Regulator")
4	277 006 R1	SPACER, bracket
5	312 069 R2	BRACKET, voltage regulator mtg.
	179 883	BOLT, 1/2 x 1-1/4" hex hd.
	271 552	BOLT, 5/8 x 3/4" hex hd.
	103 323	WASHER, 1/2" lock
	103 325	WASHER, 5/8" lock
6	275 301 C2	BELT, fan
7	384 992 R1	SPACER, bracket mounting
8	384 993 R1	SPACER, alternator mounting
9	384 991 R1	BRACKET, alternator
	179 821	BOLT, 5/16 x 1-3/8" hex hd.
	103 320	WASHER, 5/16" lock
10	221 425 R1	FAN, alternator
11		PULLEY, alternator
12		WASHER, alternator drive shaft lock
13		NUT, alternator drive shaft

# ELECTRICAL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ALTERNATOR  
(Delco-Remy)  
(For use w/Sleeveless Engines)

ALTERNATOR - Continued  
(Delco-Remy)  
(For use w/Sleeveless Engines)



CE-87424

1	100 805	ALTERNATOR ASSY (includes Ref. Nos. 1 thru 31)	19	1 959 834	TERMINAL, diode junction (package) (3)
1	1 959 833	TERMINAL, ground (package)	20	1 959 832	TERMINAL battery (package)
2	7 451 763	BEARING, slip ring end roller	21	1 964 354	DIODE, negative (package) (3)
3	1 961 323	RETAINER w/FELT, slip ring end	22	1 969 329	FRAME w/negative DIODE, BEARING, RETAINER and CONDENSER
4	1 959 455	CONDENSER	23	1 956 975	BOLT, thru (4)
5	1 960 750	SPRING, condenser retaining	24	1 955 494	PLATE, drive end ball bearing retainer
6	1 959 828	HEAT SINK w/positive DIODE		1 965 104	SCREW, attaching (3)
	1 959 389	INSULATOR, heat sink screw	25	1 963 139	COLLAR, drive end inside spacer
	1 959 523	INSULATOR, heat sink washer	26	1 912 008	GASKET, bearing retainer plate
	132 768	SCREW, heat sink	27	904 751	BEARING, drive end ball
	9 419 392	WASHER, heat sink lock	28	1 959 917	FRAME, drive end
	815 540	WASHER, heat sink	29	1 959 991	COLLAR, drive end outside spacer
7	1 964 682	HOLDER, brush (includes Ref. 9)	30	1 941 978	WASHER, drive end shaft
8	1 964 117	SPRING, brush (2)	31	1 915 172	NUT, drive end shaft
9		BRUSH, (order HOLDER 1 964 682)			
10	9 419 392	WASHER, brush holder screw lock (2)			
11	1 957 501	SCREW, brush holder attaching (2)			
13	1 959 381	STATOR w/CLIPS			
14	1 959 532	CLIP, stator terminal (3)			
15	1 958 565	ROTOR ASSY			
16		NUT, hex No. 8NC (3)			
17	9 419 392	WASHER, lock No. 8 spring (3)			
18	1 964 353	DIODE, positive (package) (3)			

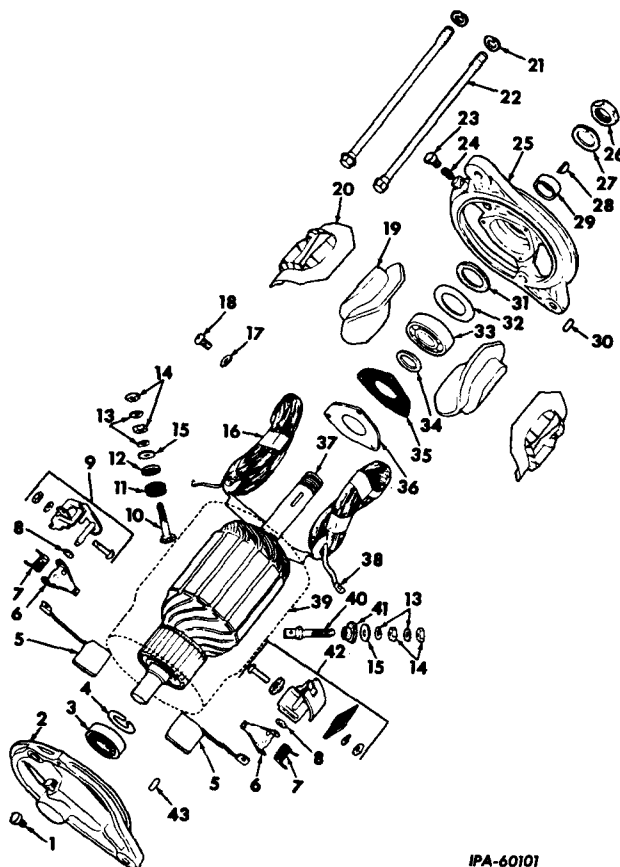
Always Give Alternator Number  
When Ordering Parts.

# ELECTRICAL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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## GENERATOR

(Part of ATTACHMENT, 318 434 R91)  
(Delco-Remy) (12 Volt) (Used with Hydraulic Pump)  
(For use w/Sleeved Engines)



1102034	GENERATOR ASSY (12 volt)
	NUT, 5/16"
	SCREW, 5/16 x 3/4" hex hd cap
	SCREW, 5/16 x 1" hex hd cap
	SCREW, 5/16 x 1-1/4" hex hd cap
	WASHER, 5/16" lock (3)
	WASHER, 11/32 x 11/16" x 16 ga. (2)
1	125 609 OILER, commutator end
2	1 925 204 FRAME, commutator end
3	904 751 BEARING, commutator end ball
4	1 929 959 RING, commutator end bearing
5	1 923 295 BRUSH (2)
	SCREW, No. 6 x 1/4" rd. hd cap
	1 904 377 WASHER, lock
6	1 978 183 ARM, brush (2)
7	1 908 829 SPRING, brush (2)
8	1 857 412 WASHER, space (2)
9	1 922 288 HOLDER, ground brush (package)
10	1 921 860 STUD, "F" terminal
11	1 885 090 BUSHING, insulating ("F" terminal)

REF. NO.	PART NUMBER	DESCRIPTION
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## GENERATOR - Continued

(Part of ATTACHMENT, 318 434 R91)  
(Delco-Remy) (12 Volt) (Used with Hydraulic Pump)  
(For use w/Sleeved Engines)

12	1 858 753	WASHER, insulating ("F" terminal)
13	1 904 661	WASHER, terminal stud lock (4)
14		NUT, No. 12 (4)
15	1 881 409	WASHER, flat (2)
16	1 922 701	COIL, field
17		WASHER, 1/4" lock
18		SCREW, 1/4 x 3/8" fil hd slt cap
19	1 912 725	SHOE, pole (2)
	1 843 646	SCREW, pole shoe (2)
20	1 912 073	INSULATOR, field coil
21		WASHER, 5/16" heavy lock (2)
22	809 763	BOLT, thru
23	125 609	OILER, drive end
24		NOT USED
25	1 910 404	FRAME, drive end
26	806 915	NUT, drive end hex
27	804 000	WASHER, drive end nut lock
28	124 545	KEY, Woodruff, 1/8 x 5/8"
29	1 858 603	COLLAR, spacing
30	809 593	PIN, drive end dowel
31	809 961	WASHER, drive end felt
32	819 104	PLATE, drive end felt retainer
33	954 378	BEARING, drive end ball
34	809 945	WASHER, drive end inner space
35	1 912 008	GASKET, bearing retainer
36	1 911263	PLATE, bearing retainer, drive end
	1 904 370	SCREW, retainer plate
	1 880 781	WASHER, lock
37	1 925 210	ARMATURE
38	200 382	CLIP, terminal to brush
39		CASE (Not Furnished Separately)
40	1 921 369	STUD ("A" terminal)
41	1 921 362	BUSHING, insulating ("A")
42	192 289	HOLDER, insulated brush (package)
43	809 062	PIN, commutator end dowel

Always Give Generator Number  
When Ordering Parts.

## ELECTRICAL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>GENERATOR</b> (Delco-Remy) (Not used with Hydraulic Pump) (For use w/Sleeved Engines)			<b>GENERATOR - Continued</b> (Delco-Remy) (Not used with Hydraulic Pump) (For use w/Sleeved Engines)		
A	1 100 305	GENERATOR ASSY (12 volt) (order Delco-Remy No. 1100374)	12	1 885 090	BUSHING, "F" terminal insulating
B	1 100 374	GENERATOR ASSY (12 volt) (will work for Delco-Remy No. 1100305)	13	1 858 753	WASHER, field terminal stud in insulating
		NUT, 5/16"	14	1 904 661	WASHER, terminal stud lock (4)
		SCREW, 5/16 x 1" hex hd cap	15	1 923 625	COIL w/CLIP, 200 382, field (Unit A)
		SCREW, 5/16 x 9/16" hex hd cap	15	1 953 879	COIL w/CLIP, 200 382, field (Unit B)
		SCREW, 5/16 x 1-1/8" hex hd cap	16	225 577	SCREW, field frame ground (Unit B)
		WASHER, 11/32 x 11/16 x 16 ga.	17	120 380	WASHER, field frame ground lock (Unit B)
		WASHER, 5/16" lock (3)	18	1 843 646	SCREW, pole shoe (2)
1	1 939 857	FRAME w/OILER, 125 609, PIN and 809 062, commutator end (Unit B)	19	1 914 618	SHOE, pole (2)
1	1 927 451	FRAME w/OILER, 1 880 635, PIN, 809 062, and WICK, 804 080 (commutator end) (Unit A)	20	1 914 491	INSULATOR, field coil (2)
2	132 688	SCREW, brush lead attaching (2)	21	815 018	BOLT, thru (2)
3	1 904 377	WASHER, brush lead attaching lock (2)	22		WASHER, 5/16" thru bolt, lock
4	1 923 295	BRUSH w/LEAD (2)	23	1 880 641	OILER (drive end)
5	1 916 324	SPRING, brush (2 for Unit A)	24	124 545	KEY, 1/8 x 5/8" (drive end) (Woodruff No. 5)
5	1 908 829	SPRING, brush (2 for Unit B)	25		WASHER, 5/16" thru bolt lock
6	1 878 183	ARM, brush (2)	26	806 915	NUT, shaft(drive end)(Unit A)
7	1 904 368	WASHER, brush arm space (2 for Unit A)	26	1 911 324	NUT, shaft(drive
7	1 857 412	WASHER, brush arm space (2 for Unit B)			
8	1 922 288	HOLDER, ground brush	26	806 915	NUT, shaft (drive end) (Unit A)
9	1 881 409	WASHER, terminal stud plain (2)	26	1 911 324	NUT, shaft (drive end) (Unit B)
10	121 743	NUT, No. 12 terminal (4)			
11	1 921 860	STUD, "F" terminal			
					Always Give Generator Number When Ordering Parts.

# **ELECTRICAL SYSTEM**

REF. NO.	PART NUMBER	DESCRIPTION
<b>GENERATOR - Continued</b> (Delco-Remy) (Not used with Hydraulic Pump) (For use w/Sleeved Engines)		
27	804 000	WASHER, shaft nut lock (drive end) (Unit A)
27	1 888 439	WASHER, shaft nut lock (drive end) (Unit B)
28	1 910 404	FRAME w/OILER, 1 880 641 (drive end) (Unit A)
28	1 871 693	FRAME w/OILER, 1 880 641 (drive end) (Unit B)
29	809 593	PIN, dowel (drive end)
30	1 880 781	WASHER, retainer plate lock (3)
31	1 904 370	SCREW, retainer plate (3)
32	200 382	CLIP, terminal (to brush)
33	1 921 362	BUSHING, "A" terminal insulating
34	1 921 369	STUD, "A" terminal
35	1 922 289	HOLDER, insulated brush
36	1 880 635	OILER (commutator end) (Unit A)
36	125 609	OILER (commutator end) (Unit B)
37	1 946 903	ARMATURE (Unit B)
37	817 807	ARMATURE (Unit A)
38	1 911 263	PLATE, retainer (drive end)
39	809 945	WASHER, inside space (drive end)
40	954 378	BEARING, ball(drive end)
41	819 104	PLATE, felt retainer (drive end)
42	809 961	WASHER, felt (drive end)
43	1 858 603	COLLAR, space (drive end)
44	1 912 008	GASKET, bearing retainer
	904 751	BEARING, ball (commutator end) (Unit B)
	1 927 448	CUP, felt retainer (commutator end) (Unit A)
	1 948 326	PLUG, bearing well (commutator end) (Unit B)
	809 062	PIN, dowel (commutator end)
	1 929 959	RING, bearing clamp (commutator end) (Unit B)
	1 927 447	WASHER, felt (commutator end) (Unit A)
	804 080	WICK, oil (commutator end)(Unit A)
	823 551	WICK, oil (drive end)

Always Give Generator Number  
When Ordering Parts.

# ELECTRICAL SYSTEM

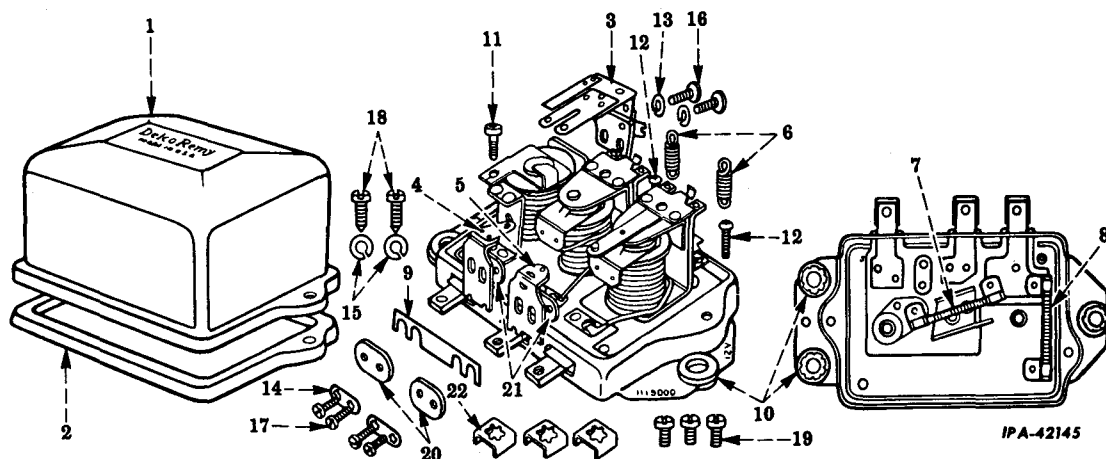
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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## VOLTAGE REGULATOR

(Delco-Remy)  
(Part of ATTACHMENT, 318 434 R91)  
(For use with Negative Grounded Battery)  
(For use w/Sleeved Engines)

## VOLTAGE REGULATOR - Continued

(Delco-Remy)  
(Part of ATTACHMENT 318 434 R91)  
(For use with Negative Grounded Battery)  
(For use w/Sleeved Engines)



1	118 999	REGULATOR, voltage NUT, 1/4"NF (2) SCREW, 1/4NF x 1/2" hex hd cap (2) WASHER, 1/4" lock (2)	19	1 864 099	SCREW, terminal (3)
1	1 927 980	COVER	20	1 922 599	INSULATOR, regulator contact attaching screw (2)
2	1 953 902	GASKET, cover	21	1 878 507	WASHER, insulator regulator con- tact attaching screw (2)
3	1 939 646	ARMATURE, relay	22	1 868 137	CLAMP, terminal (3)
4		NOT USED			
5	1 878 493	CONTACT and SUPPORT, voltage regulator			
6	1 912 176	SPRING, regulator armature (2)			
7		NOT USED			
8	1 910 174	RESISTOR, "F" terminal to ground			
9		NOT USED			
10		NOT USED			
11	1 912 159	SCREW, adjusting relay armature			
12	1 944 590	SCREW, regulator armature adjusting (2)			
13		NOT USED			
14	1 878 505	WASHER, regulator contact attaching screw lock (2)			
15	1 935 031	WASHER, cover screw lock (2)			
16	1 924 764	SCREW, relay armature attaching (2)			
17	1 878 516	SCREW, regulator contact attaching (2)			
18	1 927 982	SCREW, cover (2)			

Always Give Voltage Regulator  
Number When Ordering Parts