

INTERNATIONAL[®]
AND
HOUGH[®]

PARTS CATALOG

UC-301
ENGINE
AND
ATTACHMENTS
FORM
PU-68A

OCTOBER, 1966

*(Supersedes FORM PU-68 which
should be destroyed)*

INTERNATIONAL HARVESTER COMPANY
401 NORTH MICHIGAN AVENUE
CHICAGO, ILLINOIS 60611, U.S.A.

CONSTRUCTION EQUIPMENT

**UC-301
ENGINE
AND
ATTACHMENTS**

FORM

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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 side of flywheel housing)

Engine Serial No. _____
(Stamped on a pad on left side of crankcase below distributor housing)

INSTRUCTIONS FOR ORDERING PARTS

- (a) All parts orders should be sent to the control district office or 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-301 Power Unit. The UC-301 Power Unit has a 3-13/16 x 4.390 inch 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 part is listed first then the modifying descriptive information which serves to specifically identify the item. For example: SHAFT w/two PLUG, 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.

MANUFACTURERS PART NUMBERS ARE LISTED IN BRACKETS FOLLOWING THE DESCRIPTION OF THE PART.

(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.

INTRODUCTION—Continued

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) PART NUMBERS. The policy governing part numbers is outlined in the pamphlet "What is a Parts Number?" which has been distributed throughout the company operations.

(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:

The part number for Common Hardware items is eliminated. However, Design Hardware items will continue to be listed by part number and description.

All Carriage, Machine and Plow BOLTS; NUTS; Cap, Machine and Set SCREWS, will be considered furnished with National Coarse 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:

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 4.

INTRODUCTION—Continued

(9) SERIAL NUMBERS.

Following is a list of starting serial numbers for these units:

<u>Model Power Unit</u>	<u>Engine Starting Serial Number</u>	<u>Chassis (or power unit) Starting Serial Number</u>
UC-301	C-301 - 501	UC-301 - 501

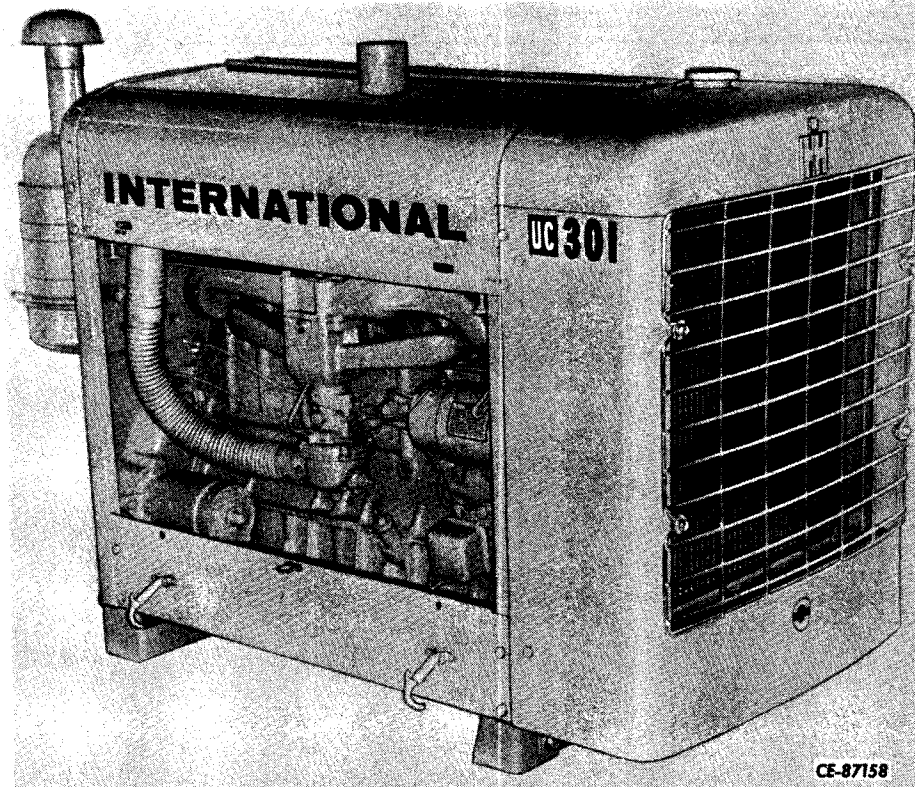
The engine serial number is stamped on a pad on left side of crankcase below distributor housing.

The UC-301 power unit (or chassis) serial number is stamped on plate on side of flywheel housing.

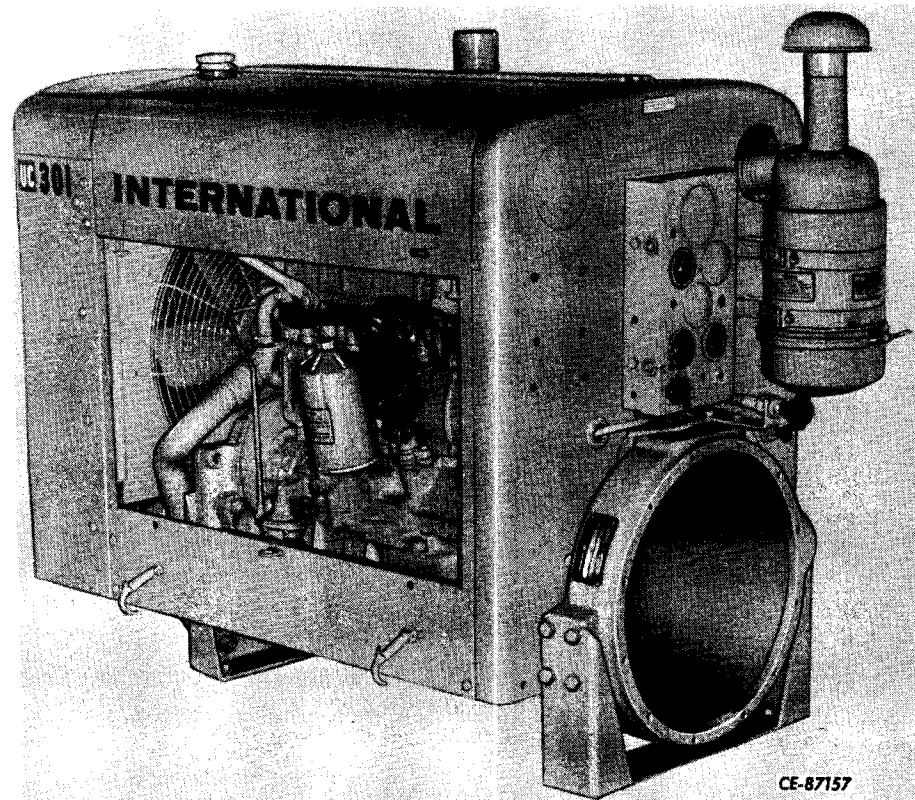
LIST OF ABBREVIATIONS

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

adj	adjustable	int	internal
al	aluminum	lb	pound, pounds
aly-stl	alloy steel	lentil-hd	lentil head
amp	ampere, amperes	LH	left hand
anl	annealed	lkg	locking
approx	approximately	LP Gas	Liquefied Petroleum Gas
assy	assembly	lub	lubrication
att	attachment	mach	machine
bd-hd	binding head	med	medium
b-hd	button head	MI	malleable iron
brg	bearing	NC	National Coarse Thread
brs	brass	NF	National Fine Thread
brz	bronze	ni	nickel
cd-pltd	cadmium plated	ni-pltd-stl	nickel plated steel
cd-pltd-stl	cadmium plated steel	No.	number
cr-pltd	chromium plated	NPT	National pipe thread
cr-pltd-stl	chromium plated steel	OC	outside circumference
CI	cast iron	OD	outside diameter
csk	countersunk	O/S	oversize
csk-hd	countersunk head	ov-hd	oval head
cl-rec-hd	clutch recess head	oz	ounce
com	common	parkerized-stl	parkerized steel
cone-pt	cone point	pkg	package
contd	continued	pltd	plated
cop	copper	pt	point
cop-pltd	copper plated	PTO	power take-off
cot.	cotter	rd-end	round end
c-pin	cotter pin	rd-hd	round head
crs	corrosion-resistant-steel (stainless)	rd-pt	round point
cr-rec-hd	cross recess head	reg	regular
cre	corrosion resisting	RH	right hand
crg	carriage	RPM	revolutions per minute
cup-pt	cup point	SAE	Society of Automotive Engineers
cyl	cylinder, cylinders	sf	semi-finished
deg	degree	slt	slotted
dia	diameter	slt-hd	slotted head
dld	drilled	slt-bd-hd	slotted binding head
dld-f c-pin	drilled for cotter pin	slt-fil-hd	slotted fillister head
dld-f lkg-wire	drilled for locking wire	slt-f-hd	slotted flat head
dog-pt	dog point	slt-hex-hd	slotted hexagon head
ext	external	slt-pan-hd	slotted pan head
f	for	slt-rd-hd	slotted round head
fem	female	slt-truss-hd	slotted truss head
fil-hd	fillister head	sq	square
fin-nk	fin neck	sq-hd	square head
f-csk-hd	flat countersunk head	sq-nk	square neck
f-fil-hd	flat fillister head	std	standard
f-hd	flat head	std-hd	standard head
f-pt	flat-point	stl	steel
flex	flexible	str	straight
ftd	fluted	T	teeth
ft	foot (or feet)	tap.	tapping
ga	gauge	thd	thread
hd	head	U/S	undersize
hdls	headless	unfin	unfinished
hex.	hexagon	wagon-box-hd	wagon box head
hex-hd	hexagonal-head	w/	with
hex-soc-hd	hexagon socket head	w/brz	with bronze
hp	horsepower	w/hex.	with hexagon
hv	heavy	w/o	without
hyd	hydraulic	zn	zinc
ID	inside diameter	zn-ct	zinc coated
in.	inch or inches	zn-pltd	zinc plated



Right front view of the UC-301 power unit with hood and dash, high flow radiator grille, front and rear support, exhaust pipe, and air cleaner.



Left rear view of the UC-301 power unit with hood and dash, front and rear support, fan and fan guard, instrument panel, exhaust pipe, and air cleaner.

MEMORANDA



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SERVICE ENGINES

SKELETON SERVICE ENGINES

382 100 R94 ENGINE, skeleton gasoline

382 101 R94 ENGINE, skeleton gasoline high altitude or L.P.G.

(CONSISTS OF -

CRANKCASE ASSEMBLY
CRANKSHAFT w/BEARINGS
GEAR AND SEALS
CONNECTING RODS w/BEARINGS
PISTONS w/PINS AND RINGS
CAMSHAFT w/GEAR AND BEARINGS
REAR BEARING CAP FILLER PLUGS
OIL PUMP
TAPPETS)



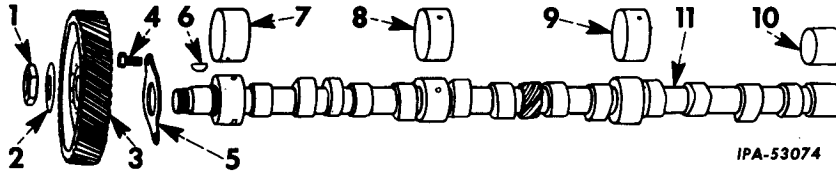
ENGINE



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

CAMSHAFT AND RELATED PARTS - Continued

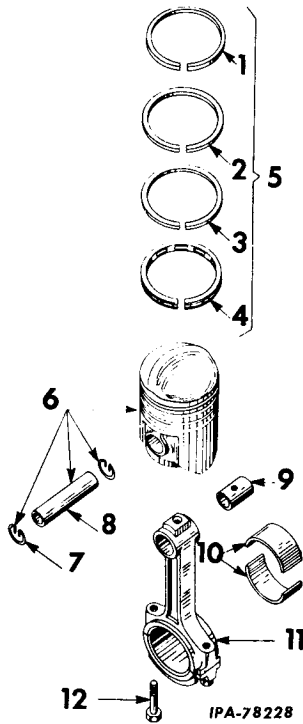


IPA-53074

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			
3	367 240 R1	GEAR, camshaft	9	70 261 R2	BEARING, camshaft intermediate rear (also listed with "Crankcase and Related Parts")
4	70 425 R1	BOLT, camshaft thrust plate (2)			
5	35 650 HA	PLATE, camshaft thrust	10	70 262 R1	BEARING, camshaft rear (also listed with "Crankcase and Related Parts")
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")	11	367 229 R1	CAMSHAFT

CONNECTING RODS AND PISTONS
(C301 501 to 4996)

CONNECTING RODS AND PISTONS - Continued
(C301 501 to 4996)



IPA-78228

1	387 068 R1	RING, piston compression (top or first groove) (std and .010 o/s) (6)
1	387 070 R1	RING, piston compression (top or first groove) (.020 o/s) (6)
1	387 071 R1	RING, piston compression (top or first groove) (.030 o/s) (6)
1	387 072 R1	RING, piston compression (top or first groove) (.040 o/s) (6)
2	382 080 R1	RING, piston compression (second groove) (std and .010 o/s) (6)
2	382 085 R1	RING, piston compression (second groove) (.020 o/s) (6)
2	382 089 R1	RING, piston compression (second groove) (.030 o/s) (6)
2	382 093 R1	RING, piston compression (second groove) (.040 o/s) (6)
3	387 069 R1	RING, piston compression (third groove) (std and .010 o/s) (6)
3	387 073 R1	RING, piston compression (third groove) (.020 o/s) (6)
3	387 074 R1	RING, piston compression (third groove) (.030 o/s) (6)
3	387 075 R1	RING, piston compression (third groove) (.040 o/s) (6)
4	388 366 R91	RING, piston oil regulating (fourth or bottom groove) (std and .010 o/s) (6)
4	388 367 R91	RING, piston oil regulating (fourth or bottom groove) (.020 o/s) (6)



ENGINE



REF. NO.	PART NUMBER	DESCRIPTION
CONNECTING RODS AND PISTONS - Continued (C301 501 to 4996)		
4	388 368 R91	RING, piston oil regulating (fourth or bottom groove) (.030 o/s) (6)
4	388 369 R91	RING, piston oil regulating (fourth or bottom groove) (.040 o/s) (6)
5	387 158 R92	RING SET, piston (consists of eighteen compression RINGS and six oil regulating RINGS) (std and .010 o/s)
5	387 159 R92	RING SET, piston (consists of eighteen compression RINGS and six oil regulating RINGS) (.020 o/s)
5	387 160 R92	RING SET, piston (consists of eighteen compression RINGS and six oil regulating RINGS) (.030 o/s)
5	387 161 R92	RING SET, piston (consists of eighteen compression RINGS and six oil regulating RINGS) (.040 o/s)
6	382 064 R91	PISTON ASSY (std) (gasoline) (6)
6	382 065 R91	PISTON ASSY (.010 o/s) (gasoline) (6)
6	382 066 R91	PISTON ASSY (.020 o/s) (gasoline) (6)
6	382 067 R91	PISTON ASSY (.030 o/s) (gasoline) (6)
6	382 068 R91	PISTON ASSY (.040 o/s) (gasoline) (6)
6	382 074 R91	PISTON ASSY (std) (gasoline high altitude or L. P. G.) (6)
6	382 075 R91	PISTON ASSY (.010 o/s) (gasoline high altitude or L. P. G.) (6)
6	382 076 R91	PISTON ASSY (.020 o/s) (gasoline high altitude or L. P. G.) (6)
6	382 077 R91	PISTON ASSY (.030 o/s) (gasoline high altitude or L. P. G.) (6)
6	382 078 R91	PISTON ASSY (.040 o/s) (gasoline high altitude or L. P. G.) (6)
7	19 517 D	RING, piston pin retainer (12)
8	278 271 R1	PIN, piston (std) (6)
8	278 326 R1	PIN, piston (.005 o/s) (6)
9	364 913 R1	BUSHING, piston pin (6)
10	367 408 R11	BEARING, connecting rod (2 halves) (std) (6)
10	367 632 R11	BEARING, connecting rod (2 halves) (.002 u/s) (6)
10	376 666 R11	BEARING, connecting rod (2 halves) (.010 u/s) (6)
10	376 668 R11	BEARING, connecting rod (2 halves) (.020 u/s) (6)
10	367 631 R11	BEARING, connecting rod (2 halves) (.030 u/s) (6)
10	367 630 R91	BEARING SET, connecting rod (Consists of six BEARING, 367 408 R11) (std)
10	377 285 R91	BEARING SET, connecting rod (Consists of six BEARING, 367 632 R11) (.002 u/s)
10	376 665 R91	BEARING SET, connecting rod (Consists of six BEARING, 376 666 R11) (.010 u/s)

REF. NO.	PART NUMBER	DESCRIPTION
CONNECTING RODS AND PISTONS - Continued (C301 501 to 4996)		
10	376 667 R91	BEARING SET, connecting rod (Consists of six BEARING, 376 668 R11) (.020 u/s)
10	372 443 R91	BEARING SET, connecting rod (Consists of six BEARING, 367 631 R11) (.030 u/s)
11	367 406 R21	ROD w/two BOLTS, 316 366 R1 and BUSHING, 364 913 R1, connecting (6)
12	316 366 R1	BOLT, connecting rod (12)

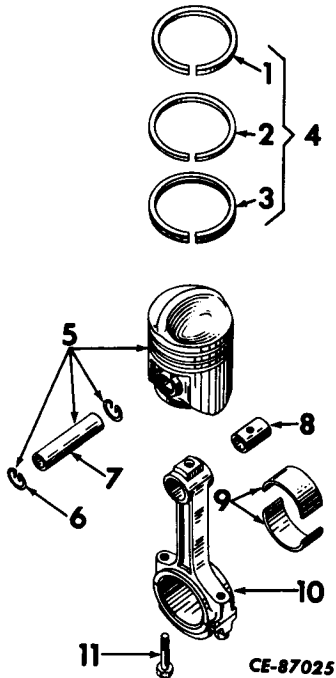


ENGINE



REF. NO.	PART NUMBER	DESCRIPTION
CONNECTING RODS AND PISTONS (C301 4997 up)		

REF. NO.	PART NUMBER	DESCRIPTION
CONNECTING RODS AND PISTONS - Continued (C301 4997 up)		



1	392 848 R1	RING, piston compression (top or first groove) (std and .010 o/s) (6)
1	392 849 R1	RING, piston compression (top or first groove) (.020 o/s) (6)
1	392 850 R1	RING, piston compression (top or first groove) (.030 o/s) (6)
1	392 851 R1	RING, piston compression (top or first groove) (.040 o/s) (6)
2	387 069 R1	RING, piston compression (second groove) (std and .010 o/s) (6)
2	387 073 R1	RING, piston compression (second groove) (.020 o/s) (6)
2	387 074 R1	RING, piston compression (second groove) (.030 o/s) (6)
2	387 075 R1	RING, piston compression (second groove) (.040 o/s) (6)
3	392 852 R91	RING, piston compression (third or bottom groove) (std and .010 o/s) (6)
3	392 853 R91	RING, piston compression (third or bottom groove) (.020 o/s) (6)
3	392 854 R91	RING, piston compression (third or bottom groove) (.030 o/s) (6)
3	392 855 R91	RING, piston compression (third or bottom groove) (.040 o/s) (6)
4	392 856 R91	RING SET, piston (consists of twelve compression RINGS and six oil regulating RINGS) (std and .010 o/s)
4	392 857 R91	RING SET, piston (consists of twelve compression RINGS and six oil regulating RINGS) (.020 o/s)

4	392 858 R91	RING SET, piston (consists of twelve compression RINGS and six oil regulating RINGS) (.030 o/s)
4	392 859 R91	RING SET, piston (consists of twelve compression RINGS and six oil regulating RINGS) (.040 o/s)
5	392 833 R91	PISTON ASSY (std) (gasoline) (6)
5	392 834 R91	PISTON ASSY (.010 o/s) (gasoline) (6)
5	392 835 R91	PISTON ASSY (.020 o/s) (gasoline) (6)
5	392 836 R91	PISTON ASSY (.030 o/s) (gasoline) (6)
5	392 837 R91	PISTON ASSY (.040 o/s) (gasoline) (6)
5	392 843 R91	PISTON ASSY (std) (gasoline high altitude or L. P. G.) (6)
5	392 844 R91	PISTON ASSY (.010 o/s) (gasoline high altitude or L. P. G.) (6)
5	392 845 R91	PISTON ASSY (.020 o/s) (gasoline high altitude or L. P. G.) (6)
5	392 846 R91	PISTON ASSY (.030 o/s) (gasoline high altitude or L. P. G.) (6)
5	392 847 R91	PISTON ASSY (.040 o/s) (gasoline high altitude or L. P. G.) (6)
6	19 517 D	RING, piston pin retainer (12)
7	278 271 R1	PIN, piston (std) (6)
7	278 326 R1	PIN, piston (.005 o/s) (6)
8	364 913 R1	BUSHING, piston pin (6)
9	367 408 R11	BEARING, connecting rod (2 halves) (std) (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 (consists of six BEARING, 367 408 R11) (std)
9	377 285 R91	BEARING SET, connecting rod (consists of six BEARING, 367 632 R11) (.002 u/s)
9	376 665 R91	BEARING SET, connecting rod (consists of six BEARING, 376 666 R11) (.010 u/s)
9	376 667 R91	BEARING SET, connecting rod (consists of six BEARING, 376 668 R11) (.020 u/s)
9	372 443 R91	BEARING SET, connecting rod (consists of six BEARING, 367 631 R11) (.030 u/w)
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)

MEMORANDA





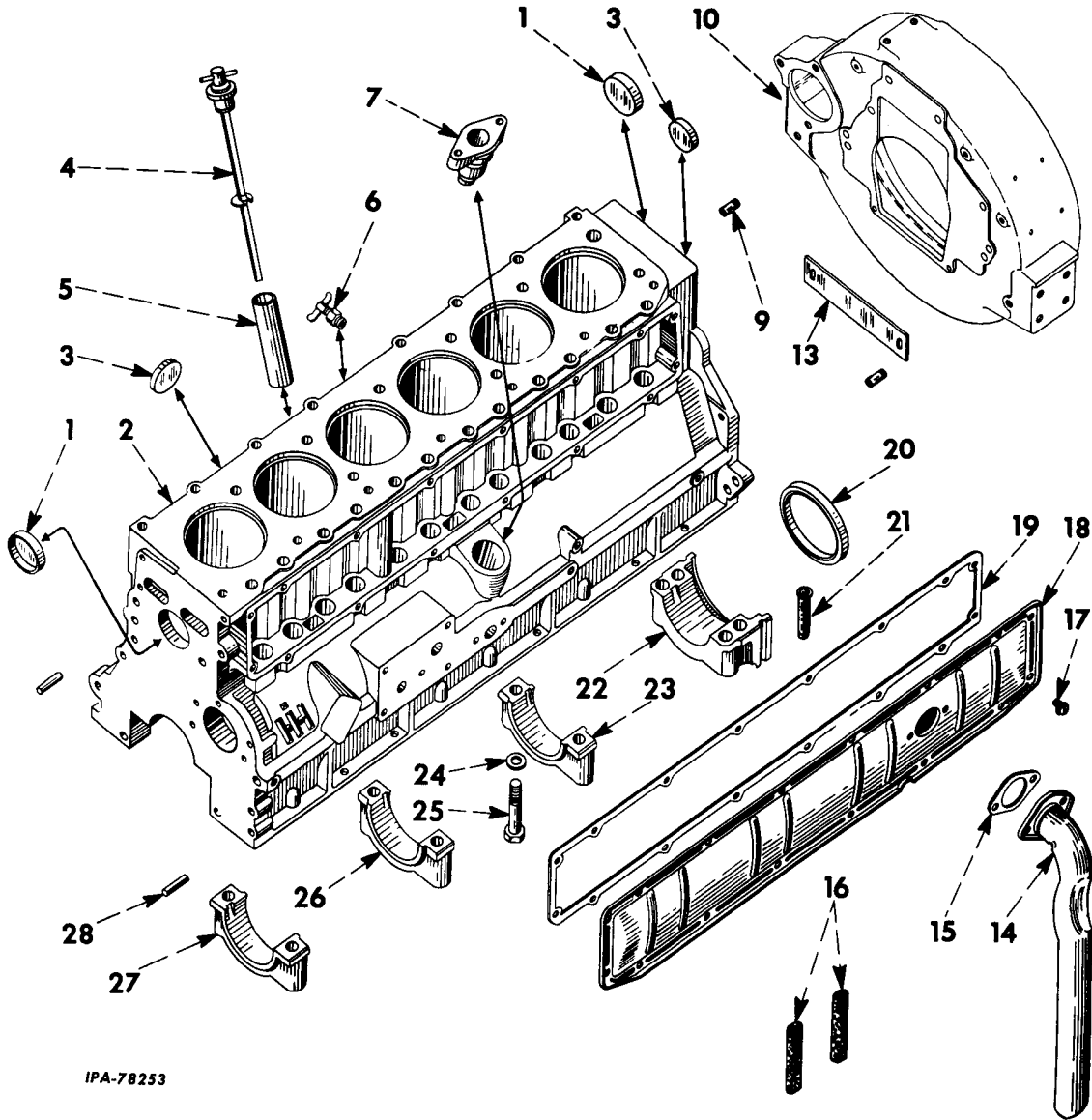
ENGINE



REF. PART NO. NUMBER	DESCRIPTION	REF. PART NO. NUMBER	DESCRIPTION
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CRANKCASE AND RELATED PARTS

CRANKCASE AND RELATED PARTS - Continued



IPA-78253

1	70 129 R1	PLUG, core hole (2)			
2	383 158 R92	CRANKCASE ASSY (Composed of -		2	383 158 R92
		1 ADAPTER	367 513 R1	2	PLUG
		10 BOLT	70 133 R1	2	PLUG
		1 BEARING	70 259 R2	3	PLUG
		1 BEARING	70 260 R1	1	TUBE
		1 BEARING	70 261 R2	10	WASHER
		1 BEARING	70 262 R1		
		1 CAP		3	70 128 R1
		1 CAP			PLUG, core hole (6)
		1 CAP		4	368 986 R91
		1 COCK	141 615		GAUGE, oil level
		1 COVER	356 243 R1	5	368 985 R2
		1 CRANKCASE			TUBE, oil filler
		2 DOWEL	371 699 R2	6	141 615
		1 GASKET	612 293 C1		COCK, 1/4" drain (type B) (optional with 103 647)
		2 PIN	141 285	6	103 647
		6 PLUG	70 128 R1		COCK, 1/4" drain (type C) (optional with 141 615)

§ - Not Furnished Separately.



ENGINE

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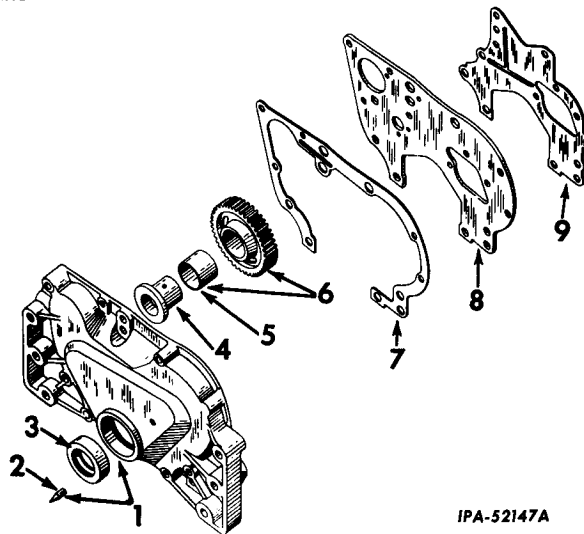
CRANKCASE AND RELATED PARTS - Continued

CRANKCASE AND RELATED PARTS - Continued

7	367 513 R1	ADAPTER, distributor mounting
8		Not Used
9	46 923 D	DOWEL, engine rear support (1/2" dia) (part of ATTACHMENT, 318 441 R91) (when 7/16" dia dowel is required order 371 699 R2) (2)
9	371 699 R2	DOWEL, engine rear support (7/16 dia) (2)
9	376 353 R1	DOWEL, engine rear support (.030" o/s) (2)
10	304 440 R2	HOUSING, flywheel (part of ATTACHMENT, 318 441 R91) 1/2" NUT (4) 1/2 x 1-1/4" hex-hd cap SCREW (2) 1/2 x 2-1/4" hex-hd cap SCREW (4) 1/2" lock WASHER (6)
13	367 225 R1	SEAL, engine rear support dust (part of ATTACHMENT, 318 441 R91) 5/16 x 5/8" hex-hd cap SCREW (2) 11/32 x 11/16" x 16 ga. WASHER (2)
14	368 429 R21 375 612 R91	PIPE, breather SCREW w/WASHER, 1/4 x 1/2" slt-rd-hd (2)
15	369 981 R1	GASKET, breather pipe
16	315 849 R1	ELEMENT, breather pipe
17	375 612 R91	SCREW w/WASHER, 1/4 x 1/2" slt-rd-hd mach (16)
18	315 970 R91	COVER w/two ELEMENT, 315 849 R1, valve push rod
19	369 982 R1	GASKET, valve push rod cover
20	393 180 R91	SEAL, crankshaft rear oil
21	310 665 R1	PLUG, rear bearing cap (2)
22		CAP, crankshaft rear bearing (Not Furnished Separately)
23		CAP, crankshaft intermediate rear bearing (Not Furnished Separately)
24	58 516 H	WASHER, bearing cap bolt (10)
25	70 133 R1	BOLT, crankshaft bearing cap (10)
26		CAP, crankshaft intermediate front bearing (Not Furnished Separately)
27		CAP, crankshaft front bearing (Not Furnished Separately)
28	141 285	PIN, 1/2 x 1-1/4 DOWEL (2)
	70 259 R2	BEARING, camshaft front (will work for 367 514 R1) (illustrated with "Camshaft and Related Parts")
	70 260 R1	BEARING, camshaft intermediate front (illustrated with "Camshaft and Related Parts")
	70 261 R2	BEARING, camshaft intermediate rear (illustrated with "Camshaft and Related Parts")
	70 262 R1	BEARING, camshaft rear (illustrated with "Camshaft and Related Parts")
444 852		PLUG, 1/8" hex-soc-hd CI (crankcase drain) (optional with 444 853 and 444 854)
444 853		PLUG, 1/8" hex-soc-hd MI (crankcase drain) (optional with 444 852 and 444 854)

444 854		PLUG, 1/8" hex-soc-hd stl (crankcase drain) (optional with 444 852 and 444 853)
318 441 R91		ATTACHMENT, flywheel housing (see NOTES 1 and 3) (Consists of - 2 DOWELS 371 699 R2 1 HOUSING 304 440 R2 1 SEAL 367 225 R1)
356 243 R1		COVER, fuel pump mounting pad (used with L. P. G. ATTACHMENT) 1/2" NUT (4) 5/16 x 5/8" hex-hd cap SCREW (2) 1/2 x 2-1/4" hex-hd cap SCREW (4) 5/16" lock WASHER (2) 1/2" lock WASHER (4)
612 293 C1		GASKET, fuel pump mounting pad cover (used with L. P. G. ATTACHMENT)
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

CRANKCASE FRONT COVER AND IDLER GEAR



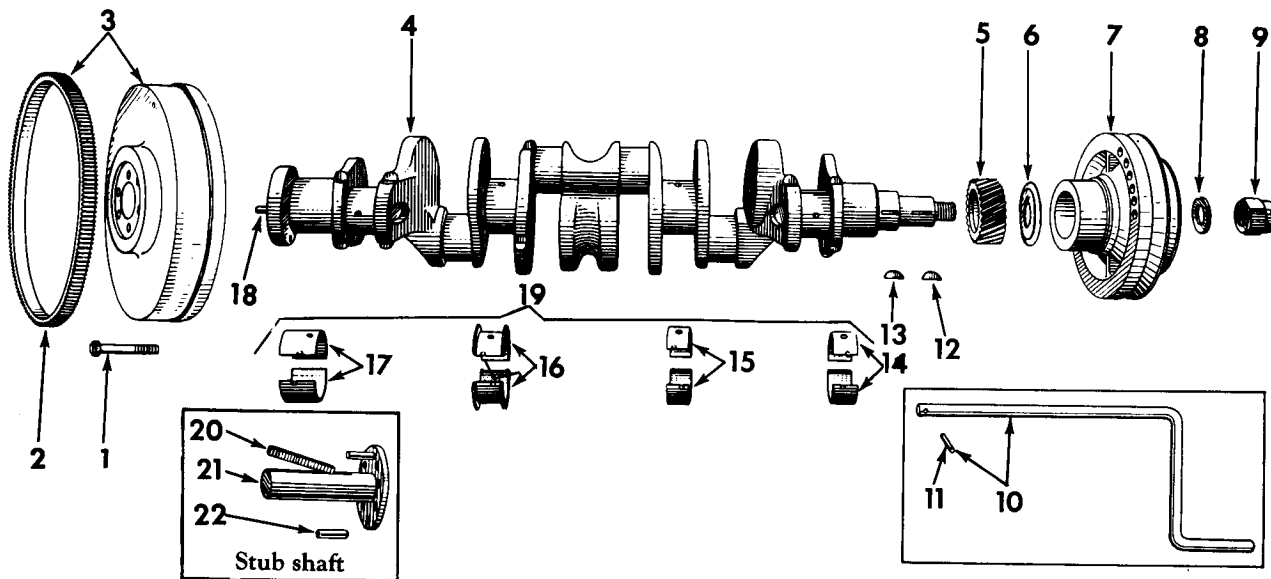
IPA-52147A

1	390 043 R11	COVER w/POINTER, 367 572 R1, crankcase front 1/2 x 3" hex-hd cap SCREW (6) 1/2" lock WASHER (6)
2	367 572 R1	POINTER, timing
3	357 672 R91	OIL SEAL, crankshaft
4	367 580 R11 141 150	SHAFT w/PIN, 141 150, idler gear PIN, 3/16 x 7/16" dowel 1/2 x 2-1/4" hex-hd cap SCREW 1/2" lock WASHER
5	367 578 R1	BUSHING, idler gear
6	367 577 R11	GEAR w/BUSHING, 367 578 R1, idler
7	378 237 R1	GASKET, crankcase front cover
7	367 574 R1	GASKET, crankcase front cover
8	367 524 R1	PLATE, crankcase front 3/8 x 1/8" hex-hd cap SCREW (6) 3/8" lock WASHER (6)
9	367 570 R1	GASKET, crankcase front plate

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 (6)	14	367 300 R91	BEARING, crankshaft front (2 halves) (.002 u/s)
2	372 568 R1	GEAR, flywheel ring (159 teeth)	14	376 670 R91	BEARING, crankshaft front (2 halves) (.010" u/s)
3	372 569 R91	FLYWHEEL w/GEAR, 372 568 R1 (used with flywheel ATTACHMENT, 305 190 R91)	14	376 683 R91	BEARING, crankshaft front (2 halves) (.020 u/s)
3	312 563 R11	FLYWHEEL w/GEAR, 372 568 R1 (used with flywheel ATTACHMENT, 312 571 R91)	14	367 288 R91	BEARING, crankshaft front (2 halves) (.030 u/s)
4	382 356 R91	CRANKSHAFT ASSY (std) (Composed of - 1 BEARING SET 367 630 R91 1 BEARING SET 382 357 R91 §1 CRANKSHAFT 1 PIN 82 970 R1)	15	367 279 R91	BEARING, crankshaft intermediate front (2 halves) (std)
4	367 271 R92	PACKAGE, crankshaft w/BEARINGS field service (renewal) (u/s) (consists of six connecting rod BEARINGS, four crankshaft BEARINGS, CRANKSHAFT and PIN, 82 970 R1)	15	367 303 R91	BEARING, crankshaft intermediate front (2 halves) (.002 u/s)
5	367 272 R1	GEAR, crankshaft	15	376 673 R91	BEARING, crankshaft intermediate front (2 halves) (.010 u/s)
6	71 763 R2	SLINGER, crankshaft oil	15	376 686 R91	BEARING, crankshaft intermediate front (2 halves) (.020 u/s)
7	338 949 R91	DAMPER and PULLEY (not used with high mounted fan drive ATTACHMENT, 601 718 C91 or auxiliary drive pulley ATTACHMENT, 318 003 R91)	15	367 291 R91	BEARING, crankshaft intermediate front (2 halves) (.030 u/s)
7	338 952 R91	PULLEY, vibration dampner (used with high mounted fan drive ATTACHMENT, 601 718 C91) (part of auxiliary drive pulley ATTACHMENT, 318 003 R91)	16	332 267 R91	BEARING, crankshaft intermediate rear (2 halves) (std)
8	70 109 R1	WASHER, starting crank nut	16	332 273 R91	BEARING, crankshaft intermediate rear (2 halves) (.002 u/s)
9	35 667 H	NUT, crankshaft	16	332 276 R91	BEARING, crankshaft intermediate rear (2 halves) (.010 u/s)
10	271 705 R91	CRANK w/PIN, 15 204 D, starting	16	332 279 R91	BEARING, crankshaft intermediate rear (2 halves) (.020 u/s)
11	15 204 D	PIN, starting crank	16	332 270 R91	BEARING, crankshaft intermediate rear (2 halves) (.030 u/s)
12	117 984	KEY, 5/16 x 1-3/8" (Woodruff No. 23) (damper and pulley)	17	367 285 R91	BEARING, crankshaft rear (2 halves) (std)
13	103 462	KEY, 3/16 x 1" (Woodruff No. 13) (crankshaft gear)	17	367 309 R91	BEARING, crankshaft rear (2 halves) (.002 u/s)
14	367 276 R91	BEARING, crankshaft front (2 halves) (std)	17	376 679 R91	BEARING, crankshaft rear (2 halves) (.010 u/s)
			17	376 692 R91	BEARING, crankshaft rear (2 halves) (.020 u/s)

§ - Not Furnished Separately.



ENGINE



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

17	367 297 R91	BEARING, crankshaft rear (2 halves) (.030 u/s)
18	82 970 R1	PIN, flywheel to crankshaft dowel
19	382 357 R91	BEARING SET, crankshaft (std)
19	382 359 R91	BEARING SET, crankshaft (.002 u/s)
19	382 360 R91	BEARING SET, crankshaft (.010 u/s)
19	382 361 R91	BEARING SET, crankshaft (.020 u/s)
19	382 358 R91	BEARING SET, crankshaft (.030 u/s)
	305 190 R91	ATTACHMENT, flywheel (used with 11-1/2" single plate over center clutch) (see NOTES 1 and 3) (consists of FLYWHEEL, 372 569 R91, w/GEAR, and 6 BOLTS, 19 466 R1)
	312 571 R91	ATTACHMENT, flywheel (used with 12" clutch ATTACHMENT, 312 837 R91 and transmission ATTACHMENT, 312 839 R91) (see NOTES 1 and 3) (consists of FLYWHEEL, 312 563 R91, SPACER, 312 562 R2, and 6 BOLTS, 19 466 R1)
	312 562 R2	SPACER, cranking motor (used with ATTACHMENT 312 571 R91) 3/8 x 2 hex-hd cap SCREW (3) 3/8 lock WASHER (3)

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" (type AA 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.

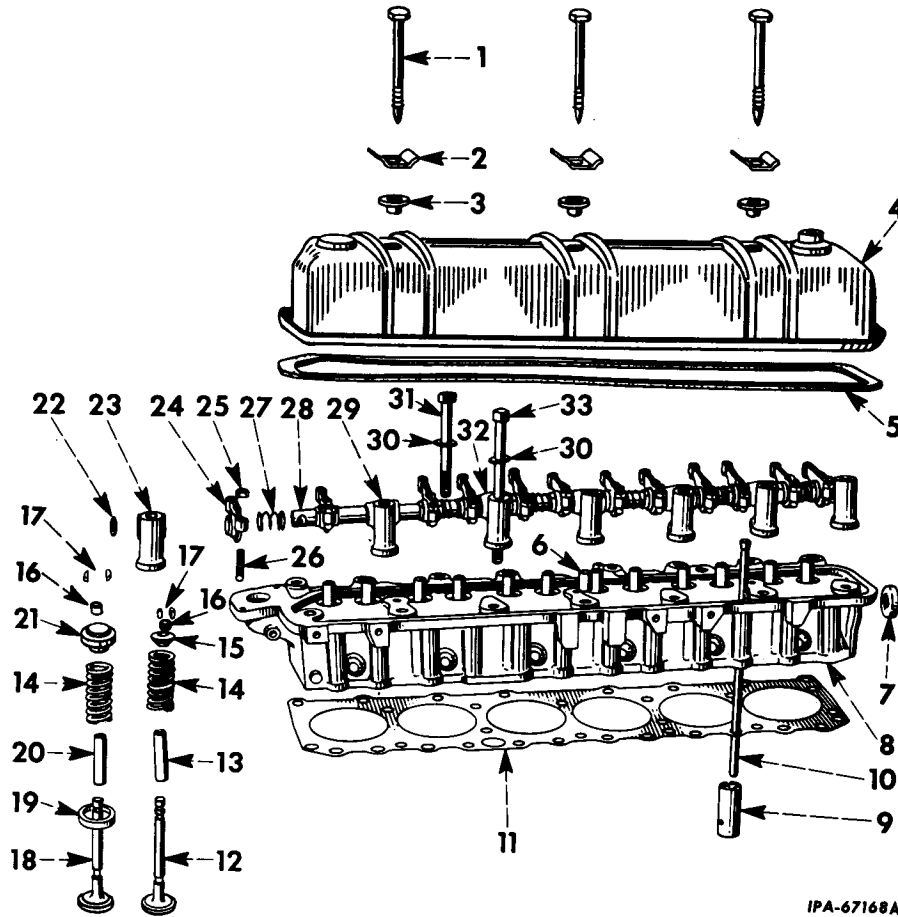
ENGINE



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

CYLINDER HEAD AND RELATED PARTS - Continued



IPA-67168A

1	168 144 R1	BOLT, valve cover (3)	8	383 665 R92	HEAD w/GUIDES ASSY, cylinder (Composed of -
2	370 208 R1	STIFFENER, valve cover (3)			8 1 HEAD
3	164 420 R1	GROMMET, valve cover (3)			12 GUIDE 237 248 R1
4	378 617 R91 444 574	COVER w/PLUG, 444 574 valve PLUG, 1/4" sq-hd pipe			1 PLUG 70 128 R1
5	369 983 R1	GASKET, valve cover			6 SEAT 126 373 R1)
6	69 500 R1	DOWEL, valve lever shaft intermediate No. 2, No. 4 and No. 6 bracket (3)	126 045		PLUG, 3/8" sq-soc pipe 5/16 x 1/2" hex-hd cap SCREW (2)
7	70 128 R1	PLUG, core hole	9	75 524 R3	TAPPET, valve (12)
8	382 098 R92	HEAD w/VALVES ASSY, cylinder (Composed of -	10	164 436 R91	ROD, valve push (12)
		12 DEFLECTORS 866 834 R1	11	164 418 R2	GASKET, cylinder head
		1 HEAD	12	234 276 R1	VALVE, intake (6)
		w/GUIDES 383 665 R92	13	237 248 R1	GUIDE, intake valve stem (6)
		24 KEY 41 339 D	14	367 192 R1	SPRING, valve (12)
		1 PLUG 70 128 R1	15	151 167 R3	RETAINER, valve spring (6)
		6 RETAINER 151 167 R3	16	866 834 R1	DEFLECTOR, intake and exhaust valve stem (12)
		6 ROTOCOIL 375 604 R91	17	41 339 D	KEY, valve spring retainer (24)
		12 SPRING 367 192 R1			
		6 VALVE 234 276 R1			
		6 VALVE 372 699 R2)			

8 - Not Furnished Separately.

ENGINE



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

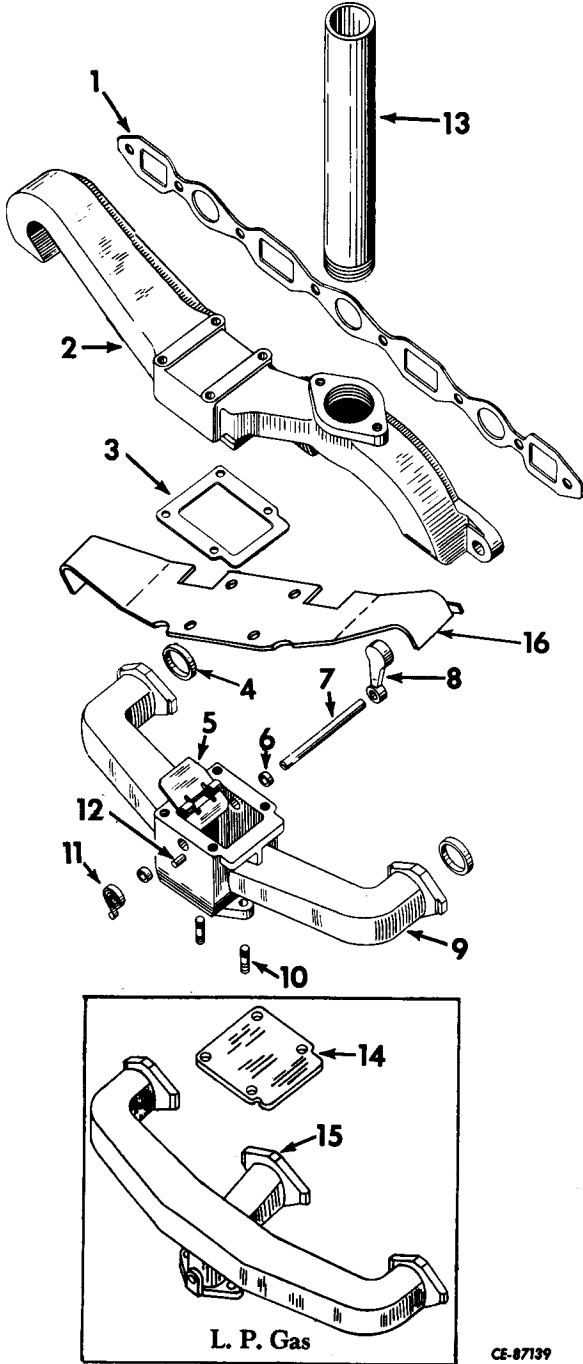
18	372 699 R2	VALVE, exhaust (6)
19	126 373 R1	SEAT, exhaust valve (6)
19	126 231 R1	SEAT, exhaust valve (.015" o/s) (6)
19	83 488 R2	SEAT, exhaust valve (.030" o/s) (6)
20	237 248 R1	GUIDE, exhaust valve stem (6)
21	375 604 R91	ROTOCOIL, exhaust valve (6)
22	109 544 R1	PLUG, rocker arm (2)
23	164 422 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)
26	16 067 DA	SCREW, valve lever adjusting (12)
27	35 619 H	SPRING, valve lever (6)
28	76 953 R3 17 244 R1	SHAFT, valve lever (2) PIN, 5/16 x 1-1/4" roll (2)
29	164 423 R11	BRACKET w/DOWEL, 69 500 R1, valve lever shaft intermediate No. 2, No. 4 and No. 6 (3)
30	58 516 H	WASHER, cylinder head bolt (15)
31	69 722 R1	BOLT, cylinder head (short) (8)
32	164 425 R1	BRACKET, valve lever shaft, intermediate No. 3 and No. 5 (2)
33	367 190 R1	BOLT, cylinder head (long) (7)

ENGINE



REF. NO.	PART NUMBER	DESCRIPTION
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INTAKE AND EXHAUST MANIFOLDS



REF. NO.	PART NUMBER	DESCRIPTION
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INTAKE AND EXHAUST MANIFOLDS - Continued

1	69 752 R1	GASKET, intake and exhaust manifold	
2	384 290 R21	MANIFOLD, exhaust	
		3/8 x 3" hex-hd cap SCREW (4)	
		3/8 x 1-1/4" hex-hd cap SCREW (6)	
		3/8 x 1-1/2" hex-hd cap SCREW (2)	
	127 507 H	WASHER, 13/32 x 7/8" x 7 ga. (8)	
3	85 868 R1	GASKET, intake to exhaust manifold	
4	138 733 R1	PILOT, intake manifold (2)	
5	85 700 R1	VALVE, manifold heat control (gasoline)	
6	69 443 R1	BUSHING, manifold heat control (gasoline)	
7	82 959 R1	SHAFT, manifold heat control valve (gasoline)	
8	85 699 R1	WEIGHT, manifold heat control (gasoline)	
9	383 705 R11	MANIFOLD ASSEMBLY, intake (gasoline)	
		(Composed of -	
	2	BUSHING	69 443 R1
	1	PLUG	103 865
	1	PIN	141 159
	1	SHAFT	82 959 R1
	1	SPRING	82 958 R2
	2	STUD	12 215 D
	1	VALVE	85 700 R1
	1	WEIGHT	85 699 R1)
10	12 215 D	STUD, carburetor (gasoline)	
11	82 958 R2	SPRING, thermostat heat control valve (gasoline)	
12	141 159	PIN, 3/16 x 1" dowel (gasoline)	
13	601 717 C1	ATTACHMENT, exhaust (consists of one exhaust pipe) (see NOTES 1 and 3)	
14	371 098 R1	COVER, exhaust manifold (L. P. gas)	
		3/8" NUT (4)	
		3/8 x 3-1/8" hex-hd cap SCREW (4)	
15	383 377 R11	MANIFOLD w/PLUG, intake (L. P. gas)	
16	384 509 R11	SIELD, manifold heat	
	445 671	PLUG, 1/8" sq-hd C.I. pipe (optional with 445 684)	
	445 684	PLUG, 1/8" sq-hd (optional with 445 671)	
	445 673	PLUG, 3/8" pipe (gasoline) (2)	
	173 192 R1	GASKET, intake and exhaust manifold (L. P. gas)	

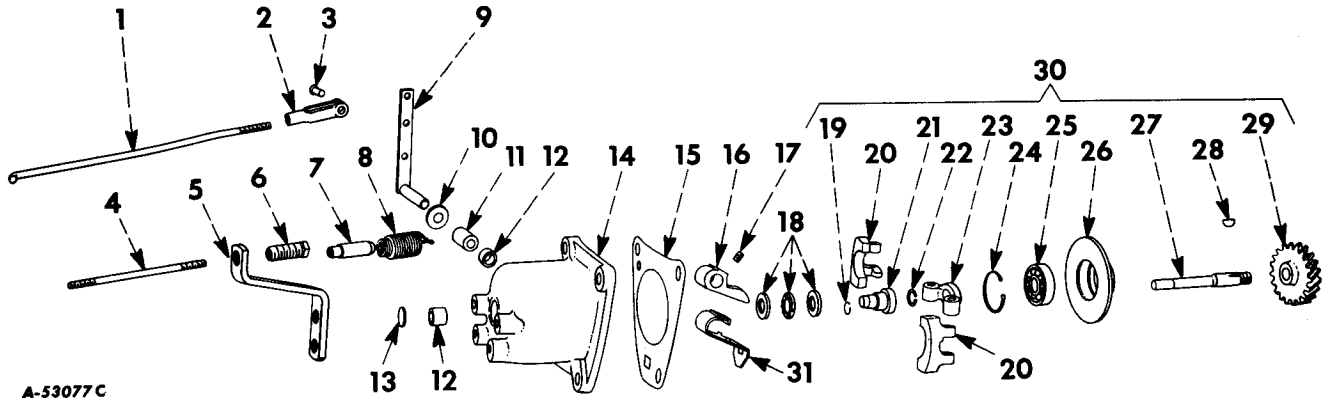
NOTE 1 - Factory Application - Order On Machine Order Form.
 NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

ENGINE

REF. PART NO.	PART NUMBER	DESCRIPTION	REF. PART NO.	PART NUMBER	DESCRIPTION
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GOVERNOR

GOVERNOR - Continued



A-53077C

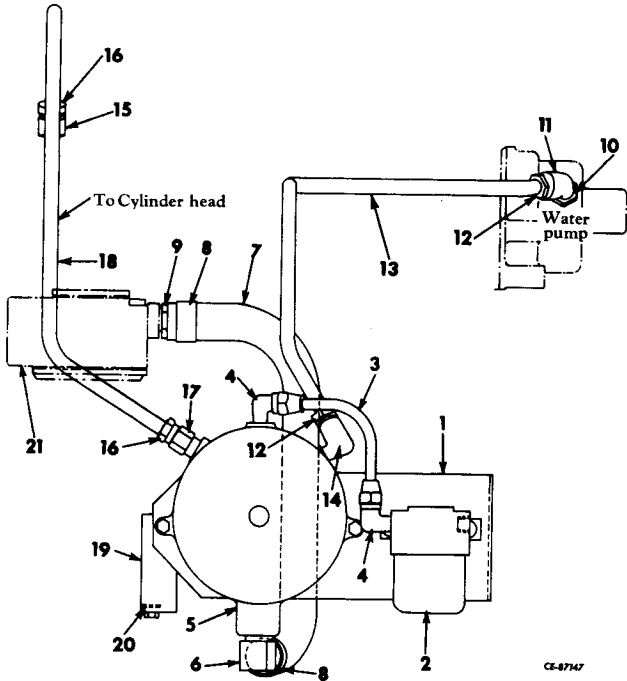
1	368 335 R1	ROD, governor to carburetor 1/16 x 7/16" cotter PIN	22	369 477 R1	RING, snap
2	104 036	FORK, governor to carburetor rod 1/4NF NUT	23	367 726 R1	CARRIER, governor weight
3		PIN, 1/4 x 51/64" rod end (governor to carburetor rod fork) 1/16 x 7/16" cotter PIN	24	281 907 C1	RING, governor shaft bearing snap
4	367 659 R1	ROD, governor spring retainer 1/4 - 28 hex NUT	25	ST 552	BEARING, governor shaft ball
5	367 742 R1	BRACKET, governor spring 5/16 x 1 hex-hd cap SCREW (2) 5/16 lock WASHER (2)	26	367 666 R1	RETAINER, governor bearing
6	367 660 R1	ADJUSTOR, governor spring 1/4 - 20 hex-jam nut	27	367 665 R1	SHAFT, governor
7	367 740 R1	RETAINER, governor spring	28	452 560	KEY, governor gear (Woodruff No. 211)
8	372 709 R2	SPRING, governor	29	367 664 R1	GEAR, governor 7/16" lock NUT (Type LLJ)
9	367 656 R12	LEVER w/ROCKSHAFT	30	368 939 R93	GEAR w/WEIGHT ASSY, governor (less Items 19 and 21)
10	361 123 R91	OIL SEAL, governor rockshaft	372 708 R93	GOVERNOR ASSY (Composed of -	
11	369 593 R1	BEARING, governor		1 HOUSING	367 651 R21
12	369 594 R1	BEARING, governor (2)		1 GEAR w/WEIGHT	368 939 R93
13	172 530	PLUG, 11/16" type No. 1 expansion		1 LEVER	367 656 R11
14	367 651 R21	HOUSING w/PLUG, 172 530, governor 3/8 x 1-1/2" hex-hd cap SCREW (3) 1/4NF jam NUT 1/4NF x 1-1/2" slt-rd-hd mach SCREW 3/8" lock WASHER (3)		1 SCREW	368 938 R1
15	367 669 R1	GASKET, governor housing		1 FORK	367 653 R1
16	367 653 R1	FORK, governor thrust		1 BEARING	387 880 R91
17	368 938 R1	SCREW, governor thrust fork set		1 SLEEVE	387 878 R1
18	387 880 R91	BEARING, governor thrust ball (together with SLEEVE, 387 878 R1 will work for BEARING, 374 794 R1 and SLEEVE, 367 668 R2)		1 SPRING	324 795 R1)
19	251 460 R1	RING, governor sleeve stop (used with BEARING, 374 794 R91)	31	374 795 R1	SPRING, bumper
20	367 741 R1 17 053 R1	WEIGHT, governor (2) PIN, 1/4 x 3/8" Esna roll (2)		373 486 R1	BRACKET, generator (listed and illustrated under Generator and Connections) 5/16 x 1 hex-hd cap SCREW 5/16 med lock WASHER
21	387 878 R1	SLEEVE, governor thrust (used with BEARING, 387 880 R91)			

FUEL SYSTEM

7

REF. PART NO. NUMBER DESCRIPTION
FUEL PIPE AND CONNECTIONS
 (Liquefied Petroleum Gas)

REF. PART NO. NUMBER DESCRIPTION
FUEL PIPE AND CONNECTIONS - Continued
 (Liquefied Petroleum Gas)



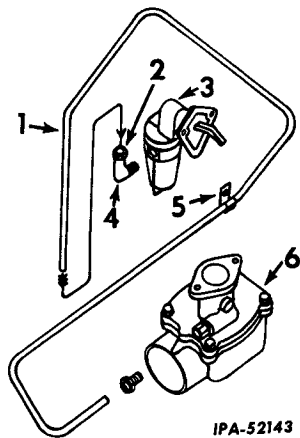
1	607 474 C1	BRACKET, fuel regulator and filter mounting 5/8 x 3-3/4" hex-hd cap SCREW (2) 5/8" NUT (2) 5/8" lock WASHER (2)	16	19 987 R1	NUT, water inlet tube connector (2)
2	346 547 R91	FILTER, fuel (service parts will be furnished in next revision of this catalog) 1/4 x 7/8" hex-hd cap SCREW (2) 1/4" NUT (2) 1/4" lock WASHER (2)	17	37 287 H	CONNECTOR, water inlet tube (in regulator)
3	601 749 C11	TUBE w/two NUTS, 121 758, filter to regulator	18	607 477 C1	TUBE, water inlet
4	192 137	ELBOW, filter to regulator tube (45° fl. tube) (2)	19	607 478 C1	SUPPORT, regulator and filter mounting bracket
5	606 571 C91	REGULATOR, L. P. Gas fuel (service parts will be furnished in next revision of this catalog) 1/4 x 1-1/2" hex-hd cap SCREW 1/4 x 1-3/4" hex-hd cap SCREW 1/4" NUTS (2) 1/4" lock WASHER (2)	20	615 029 R1	WASHER, 3/8 x 3/4" x 16 ga. flat
6	171 817 R1	ELBOW, hose (in fuel regulator)	21	606 859 C91	CARBURETOR ASSY (1-1/2 Impco) (for use on Liquefied Petroleum Gas) (service parts will be furnished in next revision of this catalog) 3/8 x 1-1/4 hex-hd cap SCREW (2) 3/8 lock WASHER (2) 3/8 hex NUT (2)
7	607 067 C1	HOSE, regulator to carburetor	383 376 R1		GASKET, carburetor
8	274 086 R91	CLAMP, hose (2)	121 758		NUT, 3/8" fuel filter tube (2)
9	171 824 R1	NIPPLE, hose (in carburetor)			
10	142 269	BUSHING, water outlet (in water pump body)			
11	58 986 D	ELBOW, outlet tube			
12	19 987 R1	NUT, water outlet tube (2)			
13	607 476 C1	TUBE, water outlet			
14	40 876 D	ELBOW, water outlet tube (in regulator)			
15	18 506 R1	CONNECTOR, water inlet tube (in cylinder head)			



FUEL SYSTEM



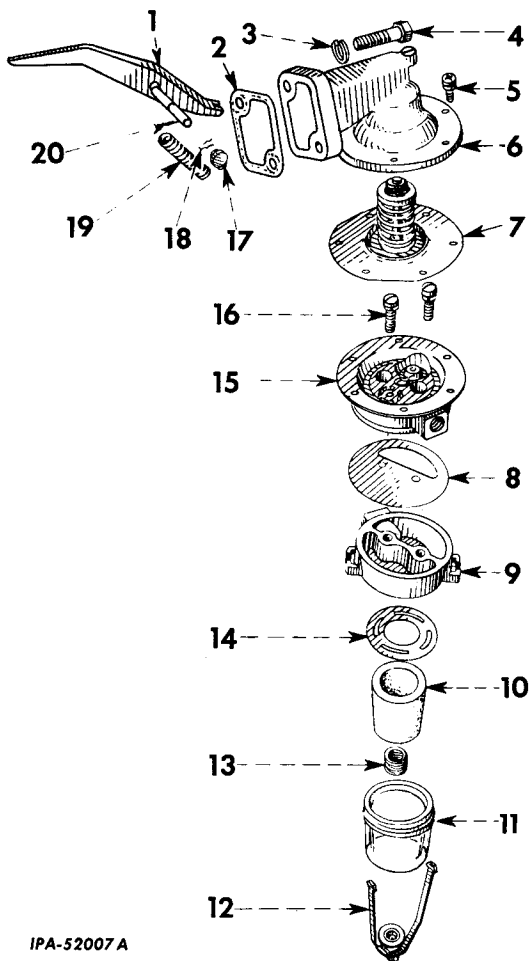
REF. PART NO.	PART NUMBER	DESCRIPTION
FUEL PIPE AND CONNECTIONS (Gasoline)		



REF. PART NO.	PART NUMBER	DESCRIPTION
FUEL PIPE AND CONNECTIONS - Continued (Gasoline)		

1	372 498 R11	PIPE w/two NUTS, 19 985 R1, fuel
2	19 985 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 19 985 R1	ELBOW, fuel pipe (at fuel pump) NUT, fuel pipe elbow
5	172 915 R1	CLIP, fuel pipe
6		CARBURETOR ASSY (for components see list of parts under details of "Carburetor")

FUEL PUMP

(Gasoline)


FUEL PUMP - Continued

(Gasoline)

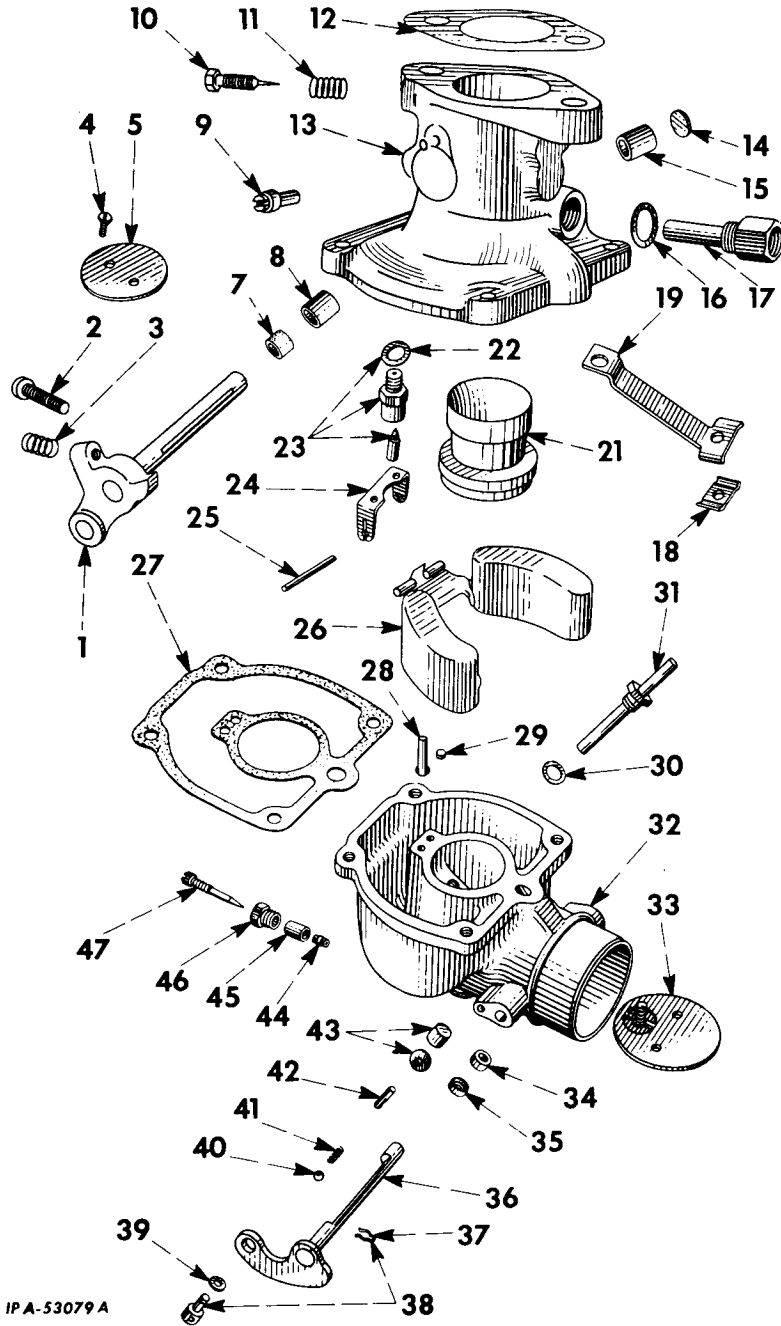
	84 838 R93	PUMP ASSY, fuel
1	90 623 R1	LEVER, cam
2	612 293 C1	GASKET, pump to crankcase
3		WASHER, 5/16" lock (2)
4		SCREW, 5/16 x 1" hex-hd cap (2)
5	17 090 R91	SCREW w/WASHER (6)
6		Not Furnished Separately (Order 84 838 R93)
7	90 625 R91	DIAPHRAGM
8	90 626 R1	DIAPHRAGM, air dome
9	109 317 R1	COVER, filter and valve housing
10	967 640 R2	ELEMENT, paper
11	109 313 R11	BOWL w/GASKET, 90 600 R1
12	109 315 R91	RETAINER w/SCREW
13	207 542 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	148 147	SPRING, retaining
19	90 603 R1	SPRING, cam lever return
20	90 618 R1	PIN, cam lever

IPA-52007A

FUEL SYSTEM



REF. PART NO. NUMBER	DESCRIPTION	REF. PART NO. NUMBER	DESCRIPTION
CARBURETOR (Gasoline)		CARBURETOR - Continued (Gasoline)	



IP A-53079 A

379 813 R91	CARBURETOR ASSY, 1-3/8" L.H. updraft 3/8NF NUT (2) 3/8" lock WASHER (2)	4	47 392 D	SCREW, throttle butterfly (2)	
1	368 139 R91	SHAFT and LEVER w/PIN and RETAINER, 25 484 D, throttle	5	54 489 D	BUTTERFLY, throttle
2	SCREW, throttle shaft adjusting	7	379 598 R1	SEAL, throttle shaft dust	
3	25 484 D	RETAINER, idle throttle adjustment	8	47 390 D	BUSHING, throttle shaft
			9	368 142 R1	PLUG, idle passage

FUEL SYSTEM



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CARBURETOR - Continued (Gasoline)			CARBURETOR - Continued (Gasoline)		
10	362 528 R1	SCREW, idle adjusting	39	32 592 D	WASHER, starting shutter lever swivel
11	351 959 R1	SPRING, idle adjustment screw retainer	40	52 791 R1	BALL, friction spring
12	31 336 D	GASKET, carburetor (not furnished as part of Carburetor Assembly)	41	46 059 D	SPRING, starting shutter friction
13	373 501 R21	BODY ASSY, throttle (Composed of - 2 BUSHING 47 390 D 1 PIN 45 110 D 1 PLUG 57 956 D 1 SEAL 379 598 R1)	42	351 588 R1	PIN, starting shutter stop (optional with 142 484)
			42	142 484	PIN, starting shutter stop (optional with 351 588 R1)
14	57 956 D	PLUG, throttle shaft expansion	43	60 947 D	PACKAGE, drip hole filler replacement
15	47 390 D	BUSHING, throttle shaft	44	380 500 R1	SEAT, fuel adjustment screw - .063"
16	18 377 D	GASKET, strainer screen retainer	45	24 703 DA	PACKING, fuel adjusting screw (optional with 67 266 DX)
17	29 902 DX	RETAINER, strainer screen	45	67 266 DX	PACKING, fuel adjusting screw (optional with 24 703 DA)
18	32 596 D	CLAMP, starting shutter control No. 10NF x 5/8" fil-hd mach SCREW (cd or zn-pltd) No. 10NF NUT (cd or zn-pltd) No. 10 lock WASHER (cd or zn-pltd)	46	24 687 DA	NUT, fuel adjusting screw packing
19	368 146 R11	BRACKET w/CLAMP, 32 596 D, starting shutter control	47	374 327 R1	SCREW, fuel adjusting
21	47 407 D33	VENTURI, single (No. 33)	117 243	PLUG, 1/8" sq-hd stl pipe (cd or zn-pltd)	
22	25 948 D	GASKET, needle valve cage	45 110 D	PIN, throttle stop	
23	47 396 DXA40	CAGE, needle valve			
24	47 394 D	SUPPORT, float lever pivot No. 4 x 5/16" slt-rd-hd mach SCREW (cd or zn-pltd) (2) No. 4 lock WASHER (cd or zn-pltd) (2)			
25	47 395 D	PIVOT, float lever			
26	47 398 DX	FLOAT and LEVER			
27	47 388 DA	GASKET, fuel bowl			
28	49 798 D75	JET, idle metering (No. 75)			
29	35 606 D52	BLEED, main air (No. 52)			
30	251 583 R1	GASKET, metering nozzle			
31	379 065 R1	NOZZLE, metering			
32	372 720 R12	BOWL w/PIN, 351 588 R1, RETAINER, 45 148 D and SEAL, 45 149 DA, fuel 1/4 x 7/8" hex-hd cap SCREW (cd or zn-pltd) (4) 1/4" lock WASHER (cd or zn-pltd) (4)			
33	357 002 R12	SHUTTER, starting No. 6 x 1/4" slt-rd-hd mach SCREW (cd or zn-pltd) (2) No. 6 lock WASHER (cd or zn-pltd) (2)			
34	45 149 DA	SEAL, butterfly dust			
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 No. 10NF x 5/8" fil-hd mach SCREW (cd or zn-pltd)			
38	64 283 DBX	SWIVEL w/RETAINER, 363 881 R1, starting shutter lever			



COOLING SYSTEM

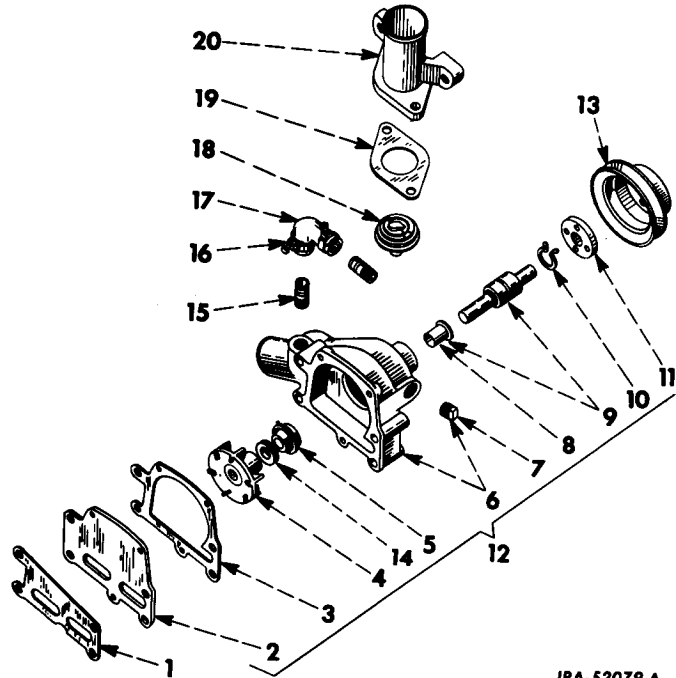


REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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WATER PUMP, THERMOSTAT AND RELATED PARTS

WATER PUMP, THERMOSTAT AND RELATED PARTS - Continued



IPA-52079 A

1	69 676 R1	GASKET, water pump	13	368 502 R1	PULLEY, water pump 1/4NF x 1/2" hex-hd cap SCREW (for attaching pulley to HUB, 368 501 R2 or 392 713 R1) (4)
2	69 675 R1	PLATE, water pump 1/4 x 1/2" rd-hd slt mach SCREW (cd or zn-pltd) (3)			1/4 x 1/2" hex-hd cap SCREW (for attaching pulley to HUB, 368 501 R1) (4) 1/4" lock WASHER (4)
3	69 674 R1	GASKET, water pump plate	14	265 164 C91	RETAINER and SEAL ASSY, water pump
4	387 931 R1	IMPELLER, water pump (together with SEAL, 265 164 R91 will work for 332 117 R1)	15	169 193 R1	NIPPLE, water by-pass (*) (2)
5	73 296 R92	SEAL, water pump	16	240 369 R91	CLAMP, hose (*) (2)
6	318 118 R21	BODY w/three PLUG, 103 868 and PLUG, 143 162 water pump	17	169 192 R1	ELBOW, water by-pass (*)
7	103 868	PLUG, 1/2" sq-hd CI pipe (3)	18	108 120 R91	THERMOSTAT, 167-172 degree opening temperature (not used with expansion tank and connections)
8	71 351 R1	SLINGER, water pump	19	368 505 R1	GASKET, water outlet
9	ST-680	SHAFT w/BEARING and SLINGER, 71 351 R1, water pump	20	368 504 R1	OUTLET, water 7/16 x 1-1/4" hex-hd cap SCREW 7/16 x 2-1/2" hex-hd cap SCREW 7/16" lock WASHER (2)
10	102 069 H	RETAINER, bearing	374 544 R93	PACKAGE, water pump field service (Composed of -	
11	368 501 R2	HUB, pulley (optional with 392 713 R1)		1	GASKET 69 674 R1
11	392 713 R1	HUB, pulley (optional with 368 501 R2)		1	GASKET 69 676 R1
12	601 816 C91	PUMP ASSY, water 3/8 x 2-1/4" hex-hd cap SCREW 3/8 x 2-1/2" hex-hd cap SCREW (2) 3/8" lock WASHER (3)		1	IMPELLER 387 931 R1
				1	RETAINER 102 069 H
				1	SEAL 73 296 R92
				1	SHAFT and BEARING ST-680
				1	RETAINER and SEAL 265 164 C91)
			143 162		PLUG, 3/8" sq-soc-hd pipe
					(*) - Not Used With Expansion Tank And Connections Or With L. P. Gas.

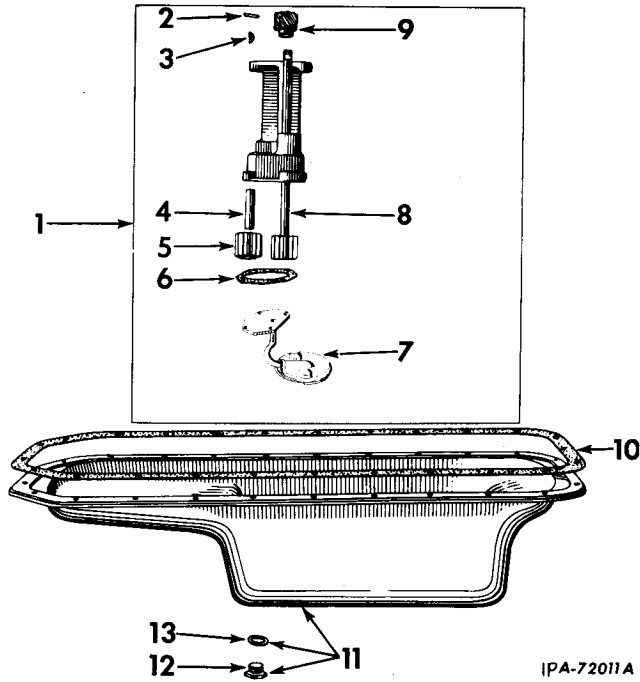


LUBRICATION SYSTEM



REF. NO.	PART NUMBER	DESCRIPTION
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CRANK CASE OIL PAN AND OIL PUMP



IPA-72011A

1	379 138 R91	PUMP ASSY, oil 5/16 x 1" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
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	35 647 H	SHAFT, idler gear
5	227 713 R1	GEAR, pump body driven
6	69 607 R1	GASKET, oil pump cover (x)
7	379 139 R91	COVER and SCREEN, oil pump 5/16 x 7/8" hex-hd cap SCREW (4) 5/16" lock WASHER (4)
8	230 409 R91	SHAFT and GEAR, oil pump drive
9	69 608 R1	GEAR, oil pump drive
10	369 984 R1	GASKET, crankcase pan
11	367 575 R92	PAN ASSY, crankcase oil 5/16 x 3/4" hex-hd cap SCREW (25) 5/16" lock WASHER (20) 11/32 x 11/16" x 16 ga. WASHER (5)
12	41 300 HA	PLUG, crankcase oil pan drain (optional with 359 875 R1)
12	359 875 R1	PLUG, crankcase oil pan drain (optional with 41 300 HA)
13	3 405 H	GASKET, oil pan drain plug

x - As Required.



LUBRICATION SYSTEM

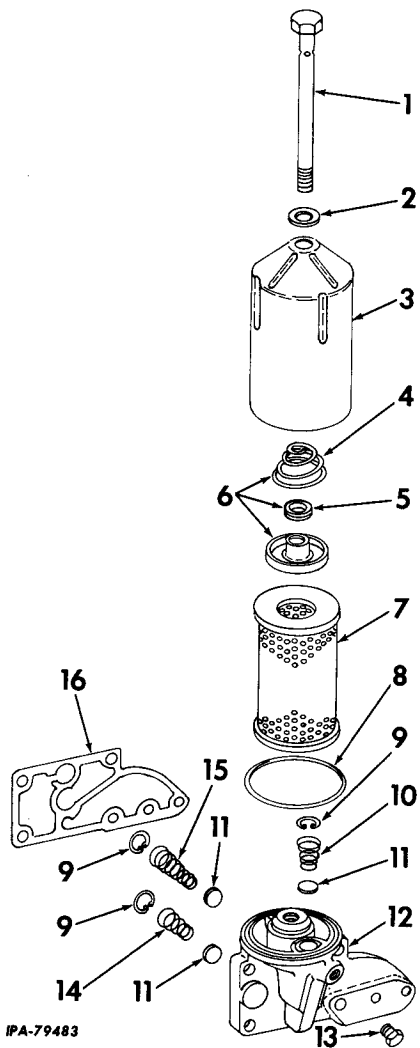


REF. PART NO. NUMBER	DESCRIPTION
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REF. PART NO. NUMBER	DESCRIPTION
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OIL FILTER

OIL FILTER - Continued



11	384 528 R1	VALVE, lubricating oil filter base (3)
12	384 523 R12	BASE ASSY, oil filter (Composed of -
	8	1 BASE
	1	1 PLUG 397 299 R1
	3	3 RING 303 322 R1
	1	1 SPRING 384 525 R1
	1	1 SPRING 384 526 R1
	1	1 SPRING 384 527 R1
	3	3 VALVE 384 528 R1)
		5/16 x 1-1/2" hex-hd cap SCREW (2)
		7/16 x 1-1/4" hex-hd cap SCREW (3)
		7/16 x 1-1/2" hex-hd cap SCREW
		5/16" lock WASHER (2)
13	397 299 R1	PLUG, oil filter base (will work for 444 618)
14	384 526 R1	SPRING, pressure regulating
15	384 527 R1	SPRING, element by-pass
16	384 537 R2	GASKET, oil filter base

384 522 R92 FILTER ASSY, oil
(Consists of the following parts except
Ref. 16)

1	384 530 R11	TUBE, oil filter center
2	384 532 R1	GASKET, center tube
3	384 529 R1	CASE, lubricating oil filter
4	384 536 R1	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	323 827 R91	PACKAGE, field service oil filter (consists of ELEMENT and GASKET 304 854 R1)
8	304 854 R1	GASKET, oil filter case
9	303 322 R1	RING, snap (3)
10	384 525 R1	SPRING, check valve



ELECTRICAL SYSTEM

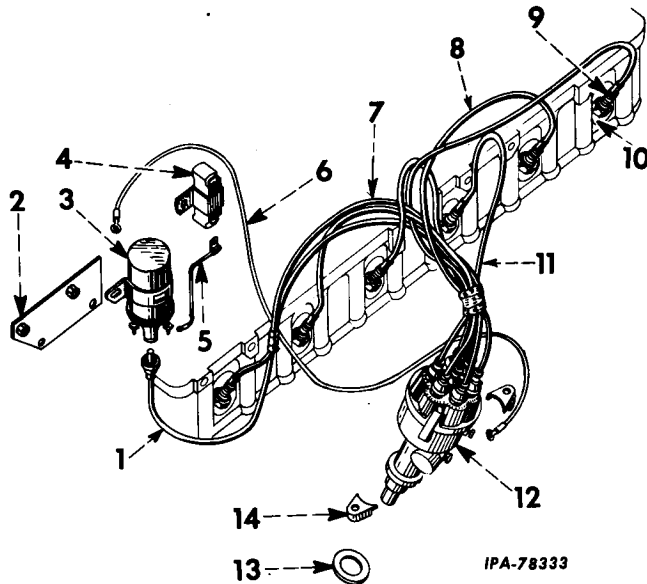


REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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SPARK PLUGS, COIL, CABLES AND DISTRIBUTOR
(Battery Ignition)

SPARK PLUGS, COIL, CABLES AND DISTRIBUTOR - Continued
(Battery Ignition)



1	66 711 R92	CABLE, coil to distributor (high tension)
2	312 118 R11	BRACKET, ignition coil 5/16 x 5/8" hex-hd cap SCREW (2) 5/16" lock WASHER (2) 11/32 x 11/16" x 16 ga. copper WASHER (2)
3		COIL w/CLAMP ASSY, ignition (Delco-Remy No. 1115098) 5/16 x 5/8" hex-hd cap SCREW 5/16 x 3/4" hex-hd cap SCREW 5/16" lock WASHER (2)
4		RESISTOR, ignition coil (Delco-Remy No. 1957154)
5	370 594 R91	CABLE, coil to resistor
6	69 700 R91	CABLE, coil to distributor primary
7	312 354 R91	CABLE, spark plug (No. 1 and 6) (2)
8	266 263 R91	CABLE, spark plug (No. 2 and 5) (2) GASOLINE
9		SPARK PLUG (Champion 10 com) (light or moderate service) (6)
9		SPARK PLUG (AC-C88 com) (light or moderate service) (6)
9		SPARK PLUG (Auto-Lite BT-10) (light or moderate service) (6)
9		SPARK PLUG (Champion D-16) (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 (Champion D-9) (severe service) (6)
9		SPARK PLUG (AC-C83)(severe service) (6)

LIQUEFIED PETROLEUM GAS		
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 (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)
10	37 762 H	GASKET, spark plug (6)
11	318 056 R91	CABLE, spark plug (No. 3 and 4) (2)
12	372 986 R91	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) 5/16 x 7/8" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
	187 902	INSULATOR, spark plug terminal
	251 553 R1	NIPPLE, distributor cap terminal (7)
	372 875 R1	NIPPLE, ignition coil
	324 460 R1	RETAINER, spark plug wire (2)
	31 987 D	SPACER, resistor bracket



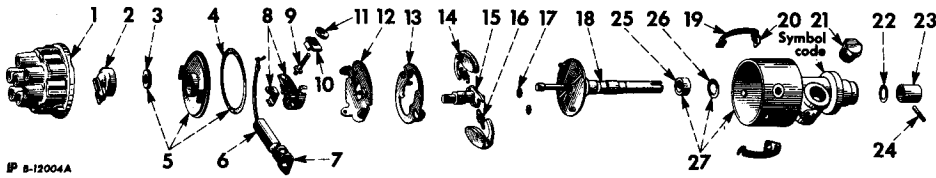
ELECTRICAL SYSTEM



REF. PART NO.	PART NUMBER	DESCRIPTION	REF. PART NO.	PART NUMBER	DESCRIPTION
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DISTRIBUTOR

DISTRIBUTOR - Continued



IP 8-12004A

Parts without letters after the description indicates the part is used for all distributors listed below. Letters A and B are used to identify separate distributors.

			21	369 013 R1	PLUG, distributor housing
			22	368 054 R1	WASHER, distributor thrust lower
			23	368 053 R1	COLLAR, distributor shaft
			24	354 552 R1	PIN, distributor shaft collar
			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 PLUG, 1/8" slt-hdls pipe
				125 947	
			355 460 R1		FELT, cam oil hole
			21 372 D		TUBE, of distributor grease (A)
A	372 986 R91	DISTRIBUTOR ASSY (order 388 592 R91)			
B	388 592 R91	DISTRIBUTOR ASSY (will work for 372 986 R91)			
1	368 062 R91	CAP, distributor			
2	353 896 R91	ROTOR, distributor			
3	353 901 R2	SEAL, breaker cover felt			
4	384 830 R1	GASKET, cover			
5	384 831 R11	COVER w/SEAL, 353 901 R2 and GASKET, 384 830 R1, breaker			
6	353 903 R92	CONDENSER No. 8 x 3/16" slt fil hd mach SCREW No. 8 lock WASHER			
7	353 905 R1	CLAMP, condenser No. 8 x 3/16" slt-fil-hd mach SCREW No. 8 lock WASHER			
8	372 951 R91 21 394 D	POINT SET, breaker arm and stationary No. 8 x 3/16" slt-pan-hd mach SCREW WASHER, stationary point terminal			
9	353 907 R1	SCREW, terminal			
10	353 906 R1	INSULATOR, spring anchor terminal			
11	251 538 R1	WASHER, terminal insulating No. 8 type "F" NUT (3) No. 8 lock WASHER (3)			
12	372 868 R11	PLATE, breaker No. 8 x 3/8" rd-hd slt-mach SCREW No. 8 lock WASHER			
13	353 920 R1	GUARD, governor weight No. 8 x 1/4" slt-fil-hd mach SCREW (2) No. 8 lock WASHER (2)			
14	353 917 R91	ARM, weight (2)			
15	356 192 R91	CAM			
16	368 102 R91	SPRING, governor (set of two) (A)			
16	362 726 R91	SPRING, governor (set of two) (B)			
17	352 293 R1	SPACER, weight arm (4)			
18	371 580 R91	SHAFT, distributor (A)			
18	388 593 R91	SHAFT, distributor (B)			
19	368 096 R1	SPRING, distributor cap (2)			
20	353 895 R1	SUPPORT, distributor cap spring (2) No. 8 x 3/8" slt-rd-hd mach SCREW (2) No. 8 lock WASHER (2)			



MEMORANDA





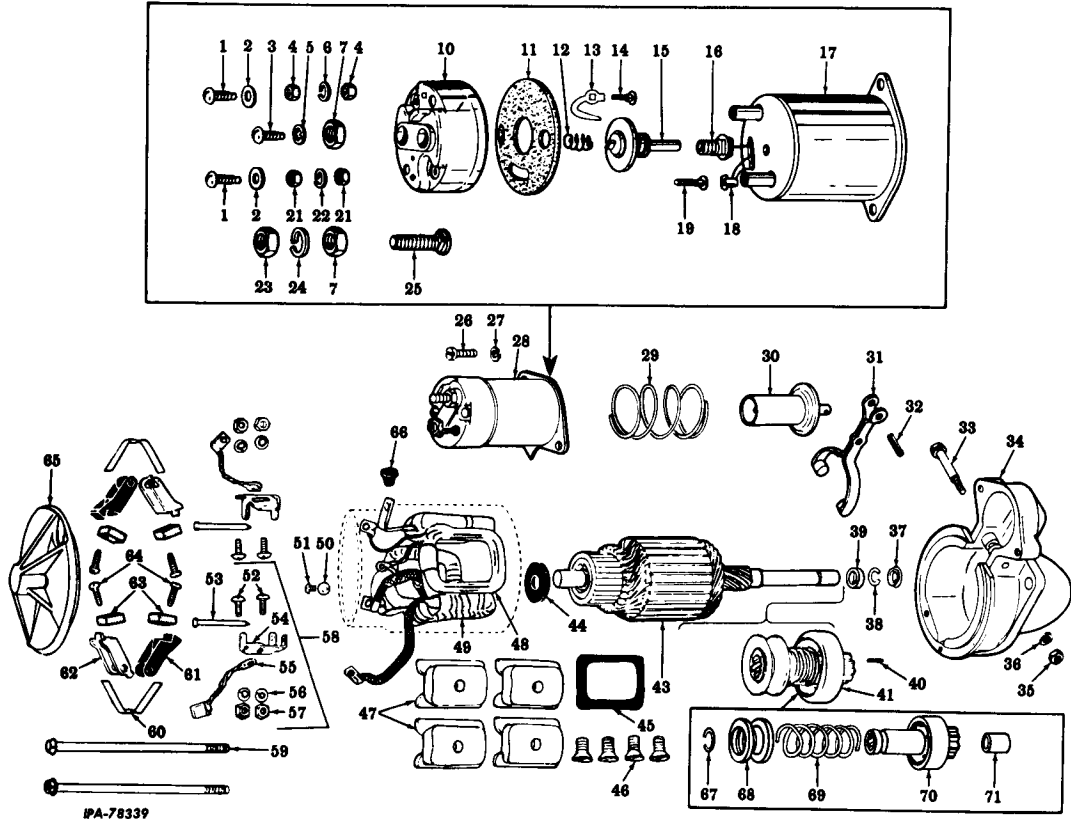
ELECTRICAL SYSTEM



REF. DELCO-REMY NO. NUMBER	DESCRIPTION	REF. DELCO-REMY NO. NUMBER	DESCRIPTION
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CRANKING MOTOR
(Delco-Remy)

CRANKING MOTOR - Continued
(Delco-Remy)



PA-78339

1107350	MOTOR ASSY, cranking 3/8" NUT No. 8 NUT No. 10NF NUT 3/8 x 1-1/4" hex-hd cap SCREW (3) 3/8" lock WASHER (3) 3/8" (cd or zn-pltd) lock WASHER No. 8 (cd or zn-pltd) lock WASHER No. 10 (cd or zn-pltd) lock WASHER	10	1963525	COVER, switch
		11	1950070	INSULATOR, cover
		12	1853342	SPRING, contact return
		13	1935645	CONTACT ("R" terminal)
		14	1950069	STUD ("R" terminal) No. 10NF
		15	1956226	CONTACT w/PUSH ROD
1	SCREW, No. 10NF x 7/16" slt-rd-hd (2)	16	1950120	STUD, 3/8" terminal
2	1923935 WASHER, cover attaching screw (2)	17		Not Furnished Separately
3	1949653 SCREW, field lead attaching	18	1949538	CLIP ("S" terminal)
4	NUT, No. 10NF ("R" terminal) (2)	19	1950069	STUD ("S" terminal)
5	WASHER, No. 10 internal lock	21		NUT, No. 10NF ("S" terminal) (2)
6	1946143 WASHER, lock	22	1946143	WASHER, lock
7	NUT, 3/8" (2)			Always Give CRANKING MOTOR NUMBER When Ordering Parts.



ELECTRICAL SYSTEM



REF. NO.	DELCO-REMY NUMBER	DESCRIPTION	REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
CRANKING MOTOR - Continued (Delco-Remy)			CRANKING MOTOR - Continued (Delco-Remy)		
23	1904419	NUT, 3/8" (2)	66	1935168	GROMMET, lead (in field frame)
24		WASHER, 3/8" lock	67	37521	RING, snap
25	1950061	STUD, 3/8" terminal	68	1838436	COLLAR, motor drive
26		SCREW, 1/4 x 1/2" slt-rd-hd (2)	69	1931477	SPRING, motor drive
27		WASHER, 1/4" lock (2)	70		GEAR (Not Furnished Separately)
28	114356	SWITCH ASSY	71	1873796	BUSHING, oilless
29	1958679	SPRING, plunger return		820148	BUSHING, center bearing
30	1953041	PLUNGER, solenoid switch		1952427	GASKET (between switch and housing)
31	1932205	LEVER, shift		820149	PLATE, center bearing
32	455106	PIN, shift lever		125947	PLUG, 1/8" pipe (drive end)
33	1932197	STUD, shift lever		821453	WASHER (between center bearing and motor drive)
34	1950306 1862383	HOUSING w/BUSHING, 1862383, drive BUSHING, drive end		1909560	WICK (drive end)
35	1926640	NUT, shift lever stud			
36		WASHER, 5/16" lock			
37	1838568	COLLAR, drive end spacing			
38	1928021	RING, pinion stop retainer snap (drive end)			
39	1928022	COLLAR, pinion stop (drive end)			
40	809593	PIN, dowel (drive end)			
41	1946220	DRIVE ASSY, motor			
43	1950307	ARMATURE			
44	833602	WASHER, commutator end spacing			
45	1927853	INSULATION, field coil (4)			
46	1913960	SCREW, pole shoe (4)			
47	1926616	SHOE, pole (4)			
48	1935131	COIL, field shunt			
49	1935128	COIL, field (3 coils)			
50	1962276	WASHER, lock (center bearing attaching) (2)			
51	132 900	SCREW, center bearing attaching (2)			
52		SCREW, No. 11 x 1/2" slt-truss-hd (4)			
53	1926600	PIN, support attaching (2)			
54		SUPPORT (Not Furnished Separately)			
55	1926605	LEAD, brush ground (2)			
56		WASHER, No. 10 lock (4)			
57		NUT, No. 10 (4)			
58	1928015	KIT, brush holder support (2)			
59	1939970	BOLT, thru (2)			
60	1926622	SPRING, brush (2)			
61	1926618	HOLDER, brush insulated (2)			
62	1926617	HOLDER, brush ground (2)			
63	1906945	BRUSH (4)			
64	1926648	SCREW, brush attaching (4)			
65	1928966	FRAME, commutator end			

Always Give CRANKING MOTOR NUMBER When Ordering Parts.



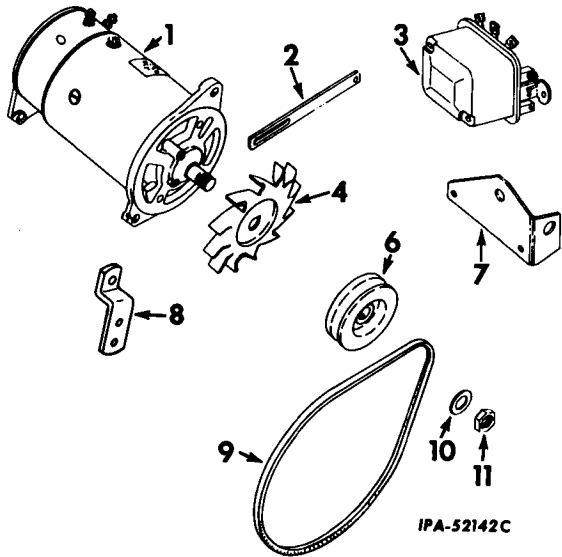
ELECTRICAL SYSTEM



REF. PART NO.	PART NUMBER	DESCRIPTION	REF. PART NO.	PART NUMBER	DESCRIPTION
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GENERATOR AND CONNECTIONS

GENERATOR AND CONNECTIONS - Continued

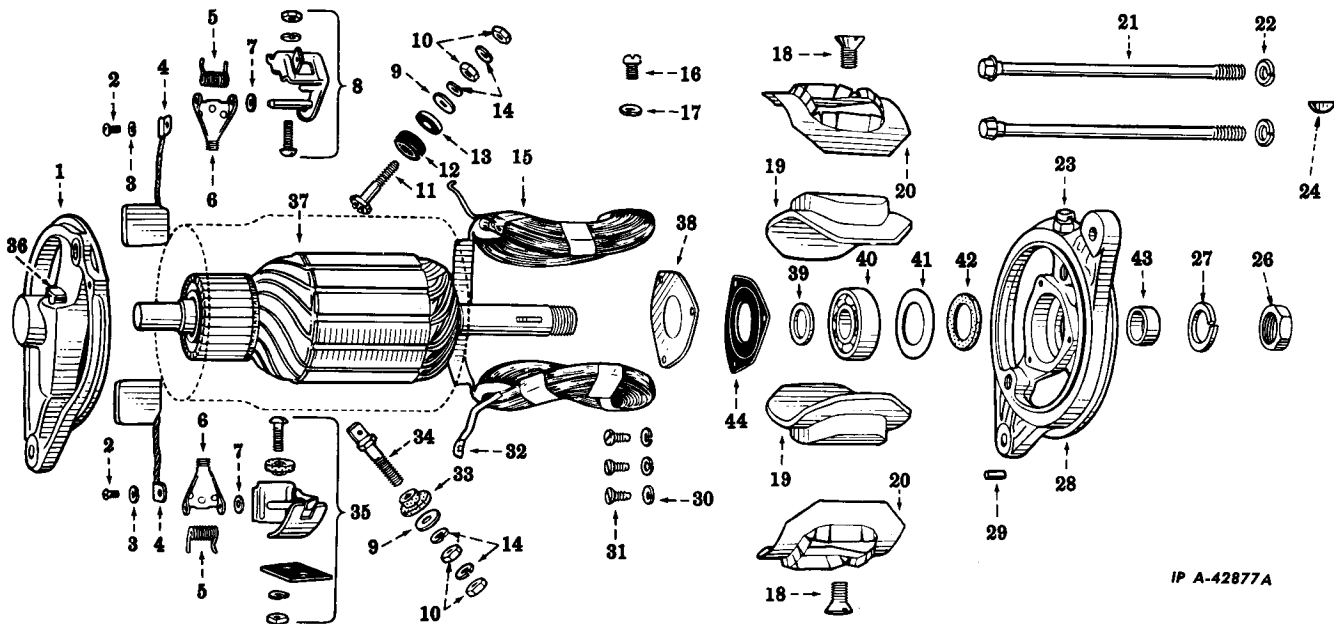


- 1 GENERATOR ASSY (12 volt) (for components see list of parts under details of "Generator")
- 2 312 068 R1 STRAP, generator adjusting
61 252 H SPACER, generator adjusting
7/16 x 3/4" hex-hd cap SCREW
7/16" lock WASHER

- 3 REGULATOR, voltage (12 volt) (for components see list of parts under details of "Voltage Regulator")
1/4NF NUT (2)
1/4NF x 3/4" hex-hd cap SCREW (2)
1/4" lock WASHER (2)
- 4 216 489 R1 FAN, generator
- 6 378 349 R1 PULLEY, generator
- 7 312 069 R1 BRACKET, voltage regulator
277 006 R1 SPACER, voltage regulator
1/2 x 1-1/4" hex-hd cap SCREW
5/8 x 3/4" hex-hd cap SCREW
1/2" lock WASHER
5/8" lock WASHER
- 8 373 486 R1 BRACKET, generator
- 9 316 250 R1 BELT, fan
- 10 WASHER, generator drive shaft lock (Delco Remy No. 1888439)
- 11 NUT, generator drive shaft (Delco Remy No. 1911324)
- 263 515 CLIP, harness

GENERATOR
(Delco-Remy)

GENERATOR - Continued
(Delco-Remy)





ELECTRICAL SYSTEM

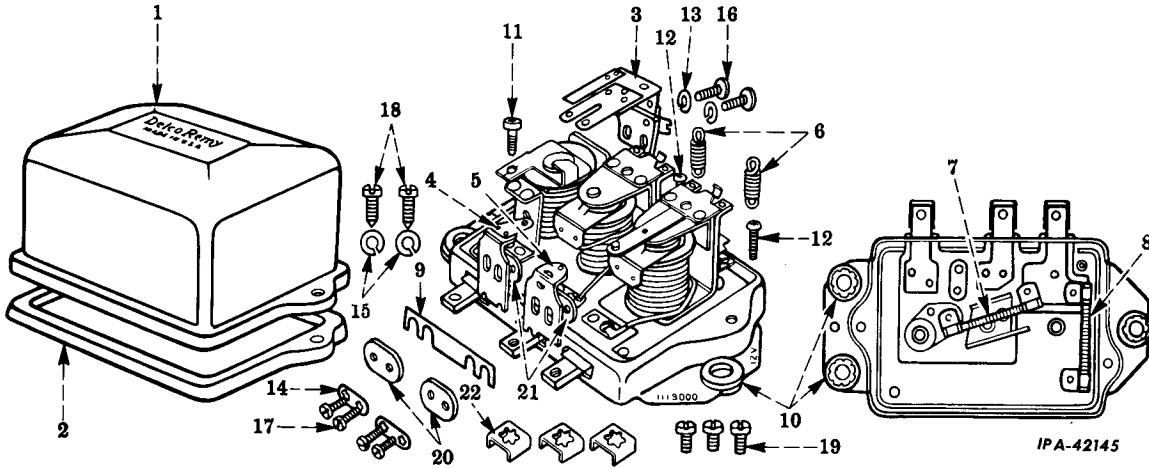


REF. NO.	DELCO-REMY NUMBER	DESCRIPTION	REF. NO.	DELCO-REMY NUMBER	DESCRIPTION	
GENERATOR - Continued (Delco-Remy)			GENERATOR - Continued (Delco-Remy)			
	1100374	GENERATOR ASSY (12 volt) 5/16" NUT 5/16 x 1" hex-hd cap SCREW 5/16 x 3/4" hex-hd cap SCREW 5/16 x 1-1/4" hex-hd cap SCREW 11/32 x 11/16" x 16 ga. WASHER (2) 5/16" lock WASHER (3)	37	817807	ARMATURE	
	1	1939857	FRAME w/OILER, 125609, PIN, 809062, and WICK, 823551, commutator end	38	1911263	PLATE, retainer (drive end)
	2	132688	SCREW, brush lead attaching (2)	39	809945	WASHER, inside space (drive end)
	3	1904377	WASHER, brush lead attaching lock (2)	40	907503	BEARING, ball (drive end)
	4	1923295	BRUSH w/LEAD	41	819104	PLATE, felt retainer (drive end)
	5	1908829	SPRING, brush (2)	42	809961	WASHER, felt (drive end)
	6	1878183	ARM, brush (2)	43	1858603	COLLAR, space (drive end)
	7	1857412	WASHER, brush arm space (2)	44	1912008	GASKET, bearing retainer
	8	1922288	HOLDER, ground brush		904751	BEARING, ball (commutator end)
	9	1881409	WASHER, terminal stud plain (2)		1948326	PLUG, bearing well (commutator end)
	10	121743	NUT, No. 12 terminal (4)		809062	PIN, dowel (commutator end)
	11	1921860	STUD, "F" terminal		1929959	RING, bearing clamp (commutator end)
	12	1885090	BUSHING, "F" terminal insulating		823551	WICK, oil (drive end)
	13	1858753	WASHER, field terminal stud insulating			
	14	1904661	WASHER, terminal stud lock (4)			
	15	1953879	COIL w/CLIP, 200382, field			
	16	225577	SCREW, field frame ground			
	17	120380	WASHER, field frame ground lock			
	18	1843646	SCREW, pole shoe (2)			
	19	1914618	SHOE, pole (2)			
	20	1914491	INSULATOR, field coil (2)			
	21	815018	BOLT, thru (2)			
	22		WASHER, 5/16" thru bolt lock (2)			
	23	1880641	OILER (drive end)			
	24	124545	KEY, 1/8 x 5/8" (drive end) (Woodruff No. 5)			
	26	1911324	NUT, shaft (drive end)			
	27	1888439	WASHER, shaft nut lock (drive end)			
	28	1871693	FRAME w/OILER, 1880641 (drive end)			
	29	809593	PIN, dowel (drive end)			
	30	1880781	WASHER, retainer plate lock (3)			
	31	1904370	SCREW, retainer plate (3)			
	32	200382	CLIP, terminal (to brush)			
	33	1921362	BUSHING, "A" terminal insulating			
	34	1921369	STUD, "A" terminal			
	35	1922289	HOLDER, insulated brush			
	36	125609	OILER (commutator end)			
	37	1946903	ARMATURE			

Always Give GENERATOR NUMBER When Ordering Parts.

ELECTRICAL SYSTEM

REF. DELCO-REMY NO. NUMBER	DESCRIPTION	REF. DELCO-REMY NO. NUMBER	DESCRIPTION
VOLTAGE REGULATOR (Delco-Remy)		VOLTAGE REGULATOR - Continued (Delco-Remy)	



	1118999	REGULATOR, voltage 1/4NF NUT (2) 1/4NF x 3/4" hex-hd cap SCREW (2) 1/4" lock WASHER (2)
1	1927980	COVER
2	1953902	GASKET, cover
3	1939646	ARMATURE, relay
4		Not Used
5	1878493	CONTACT and SUPPORT, voltage regulator
6	1912176	SPRING, regulator armature (2)
7		Not Used
8	1910174	RESISTOR, "F" terminal to ground
9		Not Used
10		Not Used
11	1912159	SCREW, relay armature adjusting
12	1944590	SCREW, regulator armature adjusting (2)
13		Not Used
14	1878505	WASHER, regulator contact attaching screw lock (2)
15	1935031	WASHER, cover screw lock (2)
16	1924764	SCREW, relay armature attaching (2)
17	1878516	SCREW, regulator contact attaching (2)
18	1927982	SCREW, cover (2)
19	1864099	SCREW, terminal (3)
20	1922599	INSULATOR, regulator contact attaching screw (2)
21	1878507	WASHER, insulator regulator contact attaching screw (2)
22	1868137	CLAMP, terminal (3)

Always Give VOLTAGE REGULATOR Number When Ordering Parts.



MEMORANDA





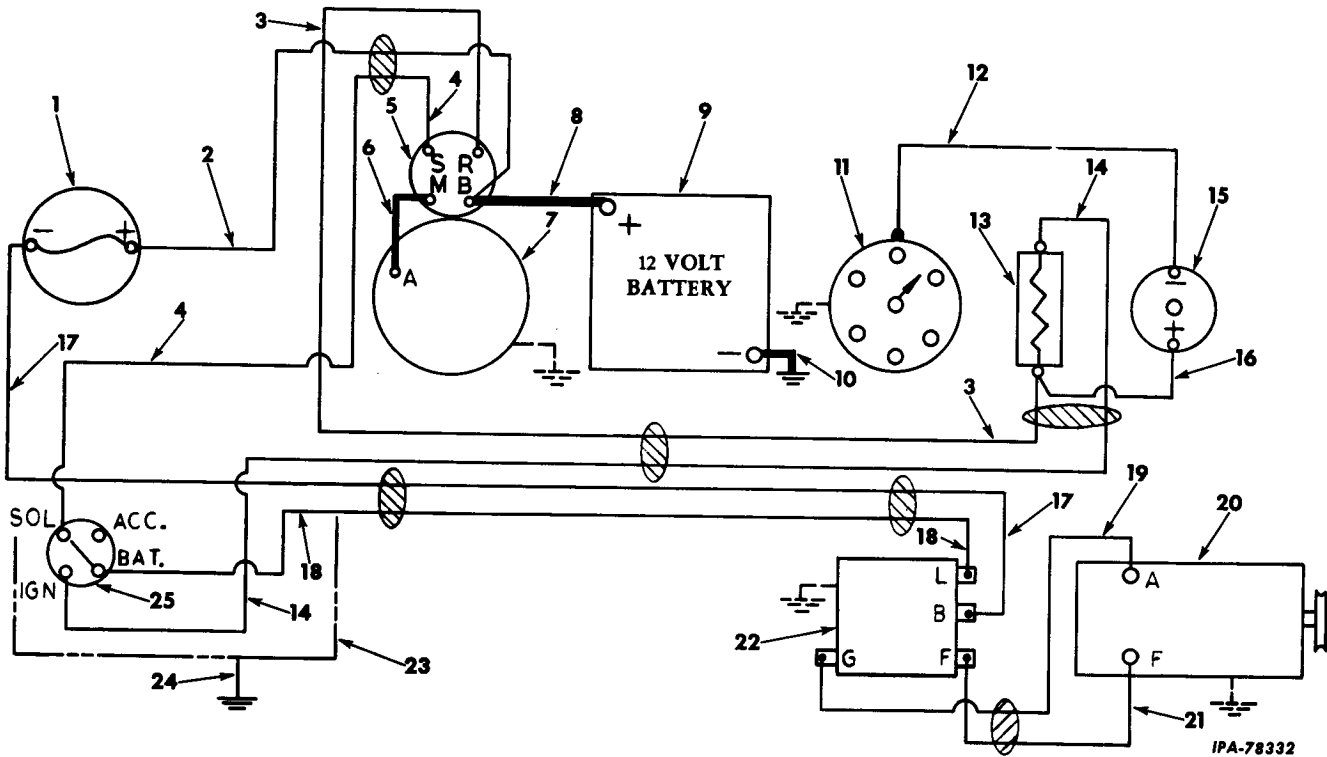
ELECTRICAL SYSTEM



REF. PART NO. NUMBER DESCRIPTION
ELECTRIC WIRING
 (For units with instruments and instrument panel (regular gauges) Attachment, 349 132 R91)

REF. PART NO. NUMBER DESCRIPTION
ELECTRIC WIRING - Continued
 (For units with instruments and instrument panel (regular gauges) Attachment, 349 132 R91)

REGULAR SYSTEM



1	269 103 R91	AMMETER (part of ATTACHMENT, 349 132 R91)	13	RESISTOR, ignition coil (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
2		CABLE, plus (+) on ammeter to "B" on solenoid (order 349 128 R91)	14	CABLE, resistor to "IGN" on ignition and starter switch (order 349 129 R91)
3		CABLE, "R" on solenoid to resistor (order 349 129 R91)	15	151 314 R91 COIL w/CLAMP, ignition (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
4		CABLE, "S" on solenoid to "SOL" on ignition and starter switch (order 349 128 R91)	16	370 594 R91 CABLE, plus (+) on coil to resistor (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
5		SOLENOID (furnished as part of "Cranking Motor")	17	CABLE, "B" on regulator to minus (-) on ammeter (order 349 130 R91)
6		CONNECTOR, cranking motor to "M" on solenoid (furnished as part of "Cranking Motor")	18	CABLE, "L" on regulator to "BAT" on ignition and starter switch (order 349 130 R91)
7		MOTOR ASSY, cranking (for components see list of parts under details of "Cranking Motor")	19	CABLE, "G" on regulator to "A" on generator (order 264 637 R93)
8		CABLE, cranking motor to battery (not furnished with power unit) (see Battery and Cables)	20	GENERATOR ASSY (for components see list of parts under details of "Generator")
9		BATTERY (12 volt) (not furnished with power unit) (see Battery and Cables)	21	CABLE, "F" on regulator to "F" on generator (order 264 637 R93)
10		CABLE, battery to ground (not furnished with power unit) (see Battery and Cables)	22	REGULATOR, voltage (12 volt) (for components see list of parts under details of "Voltage Regulator")
11		DISTRIBUTOR ASSY (for components see list of parts under details of "Distributor")	23	337 354 R2 PANEL, instrument (part of ATTACHMENT, 349 132 R91)
12	69 700 R91	CABLE, minus on coil to distributor		



ELECTRICAL SYSTEM



REF. NO.	PART NUMBER	DESCRIPTION
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ELECTRIC WIRING - Continued

(For units with instruments and instrument panel (regular gauges) Attachment, 349 132 R91)

24	259 994 R91	CABLE, instrument panel ground (part of ATTACHMENT, 349 133 R91)
25	327 144 R91	SWITCH, ignition and starter (part of ATTACHMENT, 349 132 R91)
	349 128 R91	HARNESS, cranking motor cable (part of ATTACHMENT, 349 127 R91)
	349 129 R91	HARNESS, ignition cable (part of ATTACHMENT, 349 127 R91)
	349 130 R91	HARNESS, regulator cable (part of ATTACHMENT, 349 127 R91)
	264 637 R93	HARNESS, generator to regulator



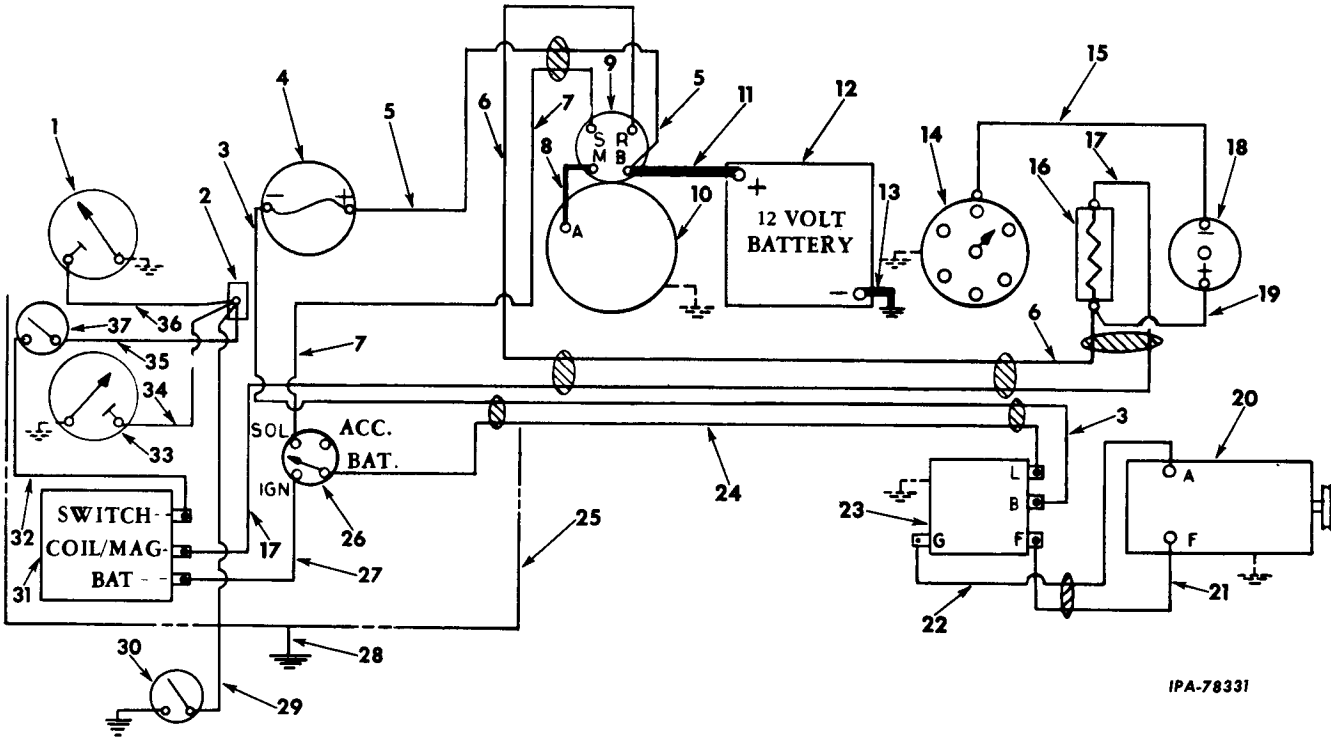
ELECTRICAL SYSTEM



REF. PART NO. NUMBER DESCRIPTION
ELECTRIC WIRING
 (For units with instruments and instrument panel (safety gauges) Attachment, 349 133 R91)

REF. PART NO. NUMBER DESCRIPTION
ELECTRIC WIRING - Continued
 (For units with instruments and instrument panel (safety gauges) Attachment, 349 133 R91)

SAFETY SHUT-OFF SYSTEM



IPA-78331

1	347 604 R91	INDICATOR, safety oil pressure (part of ATTACHMENT, 349 133 R91)	9	SOLENOID (furnished as part of "Cranking Motor")
2	42 915 D	BLOCK, junction (part of ATTACHMENT, 349 133 R91)	10	MOTOR ASSY, cranking (for components see list of parts under details of "Cranking Motor")
2	42 917 D	BLOCK w/BLOCK, 42 915 D and BRACKET, 42 916 D, junction (optional with 352 110 R91) (part of ATTACHMENT, 349 133 R91)	11	CABLE, cranking motor to battery (not furnished with power unit) (see Battery and Cables)
2	352 110 R91	BLOCK w/BLOCK, 42 915 D and BRACKET, 42 916 D, junction (optional with 42 917 D) (part of ATTACHMENT, 349 133 R91) No. 8NF NUT (cd or zn-pltd) 3/8" NUT 3/8 x 1/2" hex-hd cap SCREW No. 8 int tooth lock WASHER 3/8" lock WASHER	12	BATTERY (12 volt) (not furnished with power unit) (see Battery and Cables)
3		CABLE, "B" on regulator to minus (-) on ammeter (order 349 130 R91)	13	CABLE, battery to ground (not furnished with power unit) (see Battery and Cables)
4	269 103 R91	AMMETER (part of ATTACHMENT, 349 133 R91)	14	DISTRIBUTOR ASSY (for components see list of parts under details of "Distributor")
5		CABLE, plus (+) on ammeter to "B" on solenoid (order 349 128 R91)	15	69 700 R91 CABLE, minus on coil to distributor
6		CABLE, "R" on solenoid to resistor (order 349 129 R91)	16	RESISTOR, ignition coil (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
7		CABLE, "S" on solenoid to "SOL" on ignition and starter switch (order 349 128 R91)	17	CABLE, resistor to "IGN" on ignition and starter switch (order 349 129 R91)
8		CONNECTOR, cranking motor to "M" on solenoid (furnished as part of "Cranking Motor")	18	151 314 R91 COIL w/CLAMP, ignition (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")



ELECTRICAL SYSTEM



REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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ELECTRIC WIRING - Continued

(For units with instruments and instrument panel (safety gauges) Attachment, 349 133 R91)

ELECTRIC WIRING - Continued

(For units with instruments and instrument panel (safety gauges) Attachment, 349 133 R91)

19	370 594 R91	CABLE, plus (+) on coil to resistor (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
20		GENERATOR ASSY (for components see list of parts under details of "Generator")
21		CABLE, "F" on regulator to "F" on generator (order 264 637 R93)
22		CABLE, "G" on regulator to "A" on generator (order 264 637 R93)
23		REGULATOR, voltage (12 volt) (for components see list of parts under details of "Voltage Regulator")
24		CABLE, "L" on regulator to "BAT" on ignition and starter switch (order 349 130 R91)
25	337 354 R2	PANEL, instrument (part of ATTACHMENT, 349 133 R91)
26	327 144 R91	SWITCH, ignition and starter (part of ATTACHMENT, 349 133 R91)
27	63 713 DA	CABLE, "BAT" on relay to "IGN" on ignition and starter switch (part of ATTACHMENT, 349 133 R91)
28	259 994 R91	CABLE, instrument panel ground (part of ATTACHMENT, 349 133 R91)
29	345 347 R91	CABLE, power take-off temperature switch to junction block (part of ATTACHMENT, 345 346 R91)
30	183 350 R91	SWITCH, power take-off clutch shaft outer bearing housing temperature
31	606 069 C91	RELAY, automatic shut-off (part of ATTACHMENT, 349 133 R91)
32	274 747 R91	CABLE, safety control toggle switch to "Switch" on relay (part of ATTACHMENT, 349 133 R91)
33	347 602 R91	INDICATOR, safety heat (part of ATTACHMENT, 349 133 R91)
34		CABLE, heat indicator to junction block (order 347 602 R91)
35	274 747 R91	CABLE, safety control toggle switch to junction block (part of ATTACHMENT, 349 133 R91)
36		CABLE, safety oil pressure indicator to junction block (order 347 604 R91)
37	253 818 R91	SWITCH, safety control toggle (optional with 603 884 C91) (part of ATTACHMENT, 349 133 R91)
37	603 884 C91	SWITCH, safety control toggle (optional with 253 818 R91) (part of ATTACHMENT, 349 133 R91)

42 916 D	BRACKET, junction block (part of ATTACHMENT, 349 133 R91) No. 10 NUT No. 10 x 1/2" slt-hd mach SCREW No. 10 lock WASHER
264 637 R93	HARNESS, generator to regulator
349 128 R91	HARNESS, cranking motor cable (part of ATTACHMENT, 349 127 R91)
349 129 R91	HARNESS, ignition cable (part of ATTACHMENT, 349 127 R91)
349 130 R91	HARNESS, regulator cable (part of ATTACHMENT, 349 127 R91)

BATTERY AND CABLES

	BATTERY, dry-charged (12 volt) (Auto-Lite 12H-70-3)
356 062 R91	BOLT, battery terminal (X)
53 023 DA	CABLE, battery to cranking motor (negative grounded battery)
30 668 DB	CABLE, battery to ground (negative grounded battery) 13/32 x 13/16 x No. 16 ga. WASHER 3/8" internal-external tooth lock WASHER

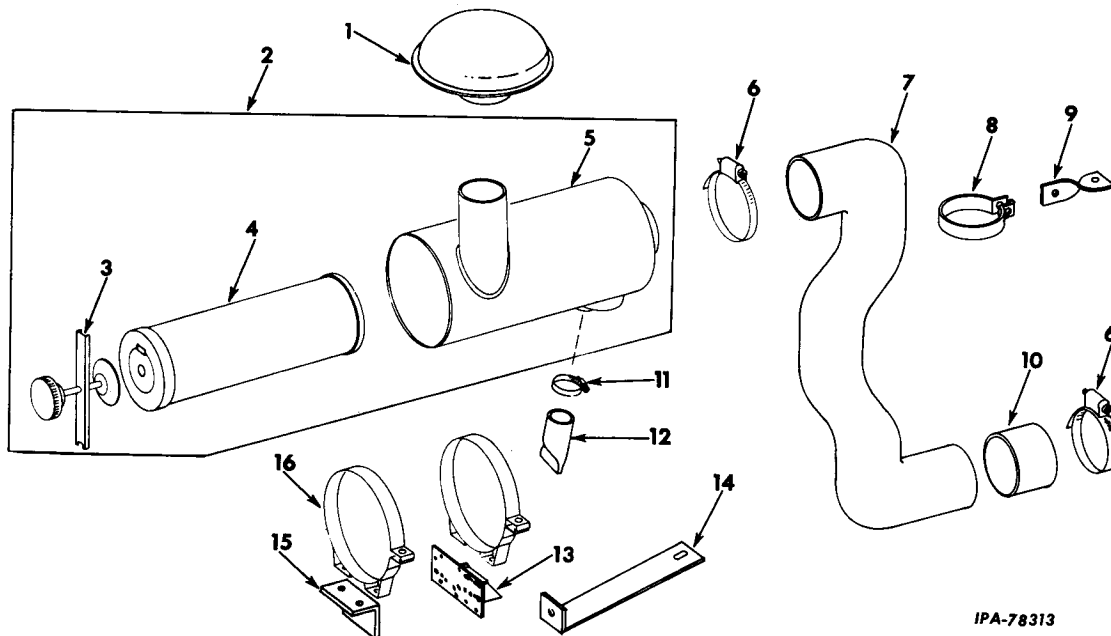
(X) - As Required,



ATTACHMENTS



REF. PART NO. NUMBER	DESCRIPTION	REF. PART NO. NUMBER	DESCRIPTION
AIR CLEANER AND CONNECTIONS (Dry type) (United Specialties)		AIR CLEANER AND CONNECTIONS - Continued (Dry type) (United Specialties)	



IPA-78313

349 137 R91	ATTACHMENT, air cleaner and connections (see NOTES 1 and 3)	16	341 373 R91	BRACKET, air cleaner mounting (2) 3/8" NUT (4) 3/8 x 3/4" hex-hd cap SCREW (4) 3/8" lock WASHER (4)
1	313 625 R91	CAP, weather		
2	338 887 R91	CLEANER, air		
3	313 965 R91	RETAINER, air cleaner element (193B3K030)		
4	317 702 R91	ELEMENT, air cleaner (250C4-S)		
5		BODY, air cleaner (Not Furnished Separately)		
6	274 088 R91	CLAMP, air pipe (2)		
7	347 598 R1	PIPE, air		
8	112 030 H	CLAMP, air pipe support 3/8" NUT 3/8 x 1-1/8" hex-hd cap SCREW 3/8" lock WASHER		
9	349 143 R1	SUPPORT, air pipe 3/8 x 3-1/4" hex-hd cap SCREW		
10	347 599 R1	SLEEVE, air pipe hose		
11	122 316 R91	CLAMP, dust unloader		
12	324 194 R1	UNLOADER, dust		
13	349 138 R91	SUPPORT, air cleaner		
14	349 141 R1	BRACE, air cleaner support 3/8 x 3-1/4" hex-hd cap SCREW		
15	349 142 R1	BRACKET, air cleaner 3/8" NUT (4) 3/8 x 1" hex-hd cap SCREW (4) 3/8" lock WASHER (4)		

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

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



ATTACHMENTS

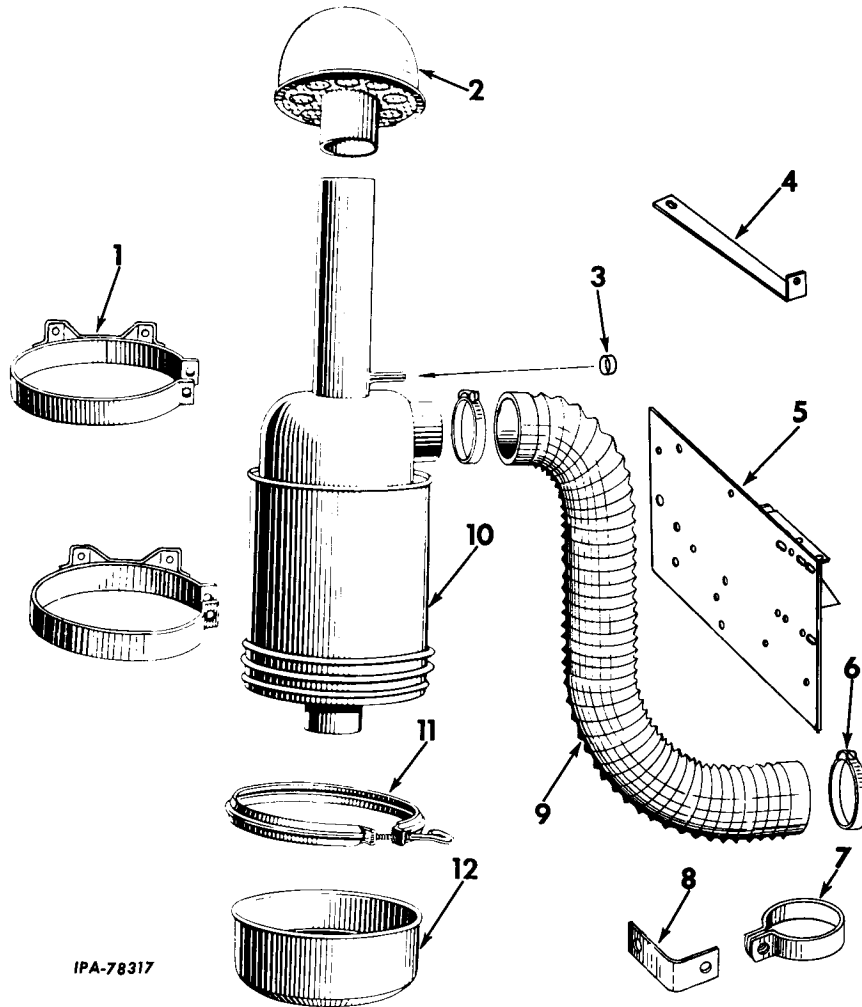


REF. PART
NO. NUMBER DESCRIPTION

REF. PART
NO. NUMBER DESCRIPTION

AIR CLEANER AND CONNECTIONS
(Oil bath type) (Donaldson)

AIR CLEANER AND CONNECTIONS - Continued
(Oil bath type) (Donaldson)



349 144 R91	ATTACHMENT, air cleaner (see NOTES 1 and 3)	9	305 885 R1	PIPE, air
1	55 804 DX BRACKET, air cleaner (2) 3/8" NUT (4) 3/8 x 7/8" hex-hd cap SCREW (2) 3/8 x 1-1/8" hex-hd cap SCREW (2) 3/8" lock WASHER (4)	10		BODY (Not Furnished Separately)
2	353 018 R92 CAP, air intake	10	305 626 R91	CLEANER w/BODY, CLAMP, 54 269 D, CUP, 355 444 R92, ASSY, air (7") (FCA07-1437)
3	265 331 R1 CAP, vent tube	11	54 269 D	CLAMP, oil cup retaining (P-3009)
4	349 141 R1 BRACE, air cleaner support 3/8 x 3-1/4" hex-hd cap SCREW	12	355 444 R92	CUP, oil (P-14844)
5	349 138 R91 SUPPORT, air cleaner			
6	274 088 R91 CLAMP, air pipe hose (2)			
7	31 790 DA CLAMP, air hose support 3/8" NUT 3/8 x 1" hex-hd cap SCREW 3/8" lock WASHER			
8	305 886 R1 ANGLE, air hose support			

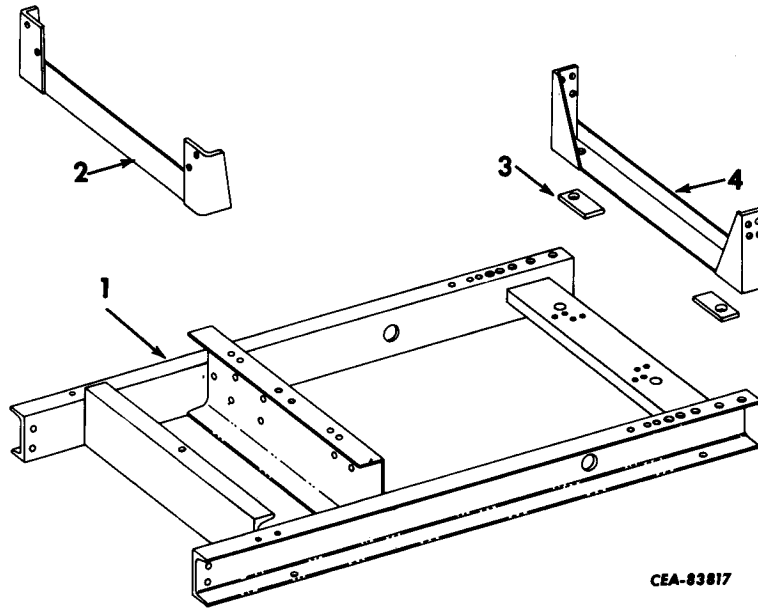
NOTE 1 - Factory Application - Order On
Machine Order Form.
NOTE 3 - Field Application - Order Through
Regular Service Parts Channels.



ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
		ENGINE SUPPORT (Box Type Base)			ENGINE SUPPORT - Continued (Box Type Base)



CEA-83817

- 332 190 R91 ATTACHMENT, engine support (for use with expansion tank and connections (see NOTES 1 and 3)
- 1 320 015 R93 BASE, box type
- 2 332 191 R11 SUPPORT, front
 1/2" NUT (2)
 5/8" NUT (4)
 5/8 x 4-1/2" hex-hd cap SCREW (4)
 1/2 x 1-3/4" hex-hd cap SCREW (2)
 1/2" lock WASHER (2)
 5/8" lock WASHER (4)
- 3 332 180 R1 SPACER, rear support (2)
 3/4" NUT (2)
 3/4 x 2-1/4" hex-hd cap SCREW (2)
 3/4" lock WASHER (2)
- 4 304 543 R11 SUPPORT, rear
 1/2 x 1" hex-hd cap SCREW (8)
 1/2" lock WASHER (8)

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

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

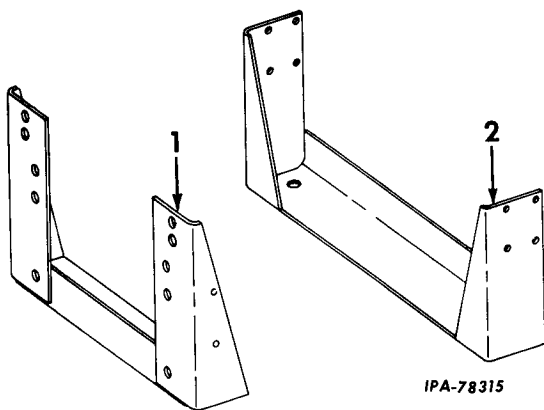
ATTACHMENTS



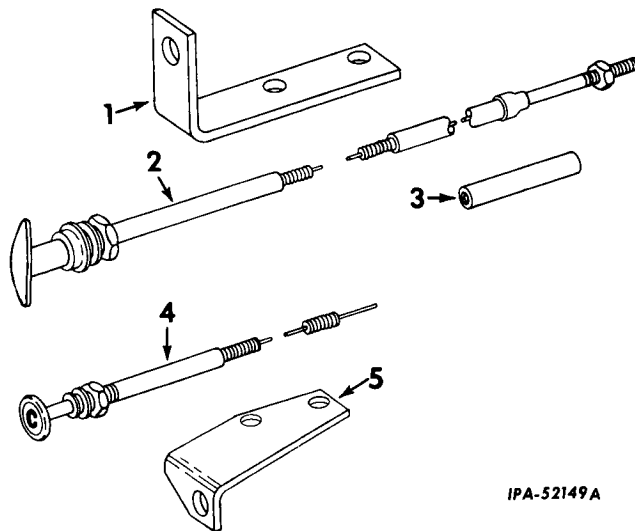
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REF. NO.	PART NUMBER	DESCRIPTION
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SUPPORTS
(Front and Rear)



ENGINE CONTROLS



305 296 R91 ATTACHMENT, front support (see NOTES 1 and 3)

305 297 R91 ATTACHMENT, rear support (see NOTES 1 and 3)

1 304 546 R12 SUPPORT, front (for Attachment, 305 296 R91)
5/8" NUT (4)
5/8 x 3-3/4" hex-hd cap SCREW (4)
5/8" lock WASHER (4)

2 304 543 R11 SUPPORT, rear (for Attachment, 305 297 R91)
1/2 x 1" hex-hd cap SCREW (8)
1/2" lock WASHER (8)

Parts without letters after the description indicate the part is used for all attachments listed below. Letters A and B are used to identify separate attachments.

A 323 862 R91 ATTACHMENT, engine controls (gasoline) (see NOTES 1 and 3)

B 607 473 C91 ATTACHMENT, engine controls (L. P. G.) (see NOTES 1 and 3)

1 349 148 R1 BRACKET, governor control cable
3/8 x 7/8" hex-hd cap SCREW (2)
3/8" lock WASHER (2)

2 305 114 R92 CABLE, governor control

3 332 077 R1 COUPLING, governor control cable
1/4NF NUT

4 312 199 R91 WIRE, choke control (Attachment A)

5 349 147 R1 BRACKET, choke control wire (Attachment A)

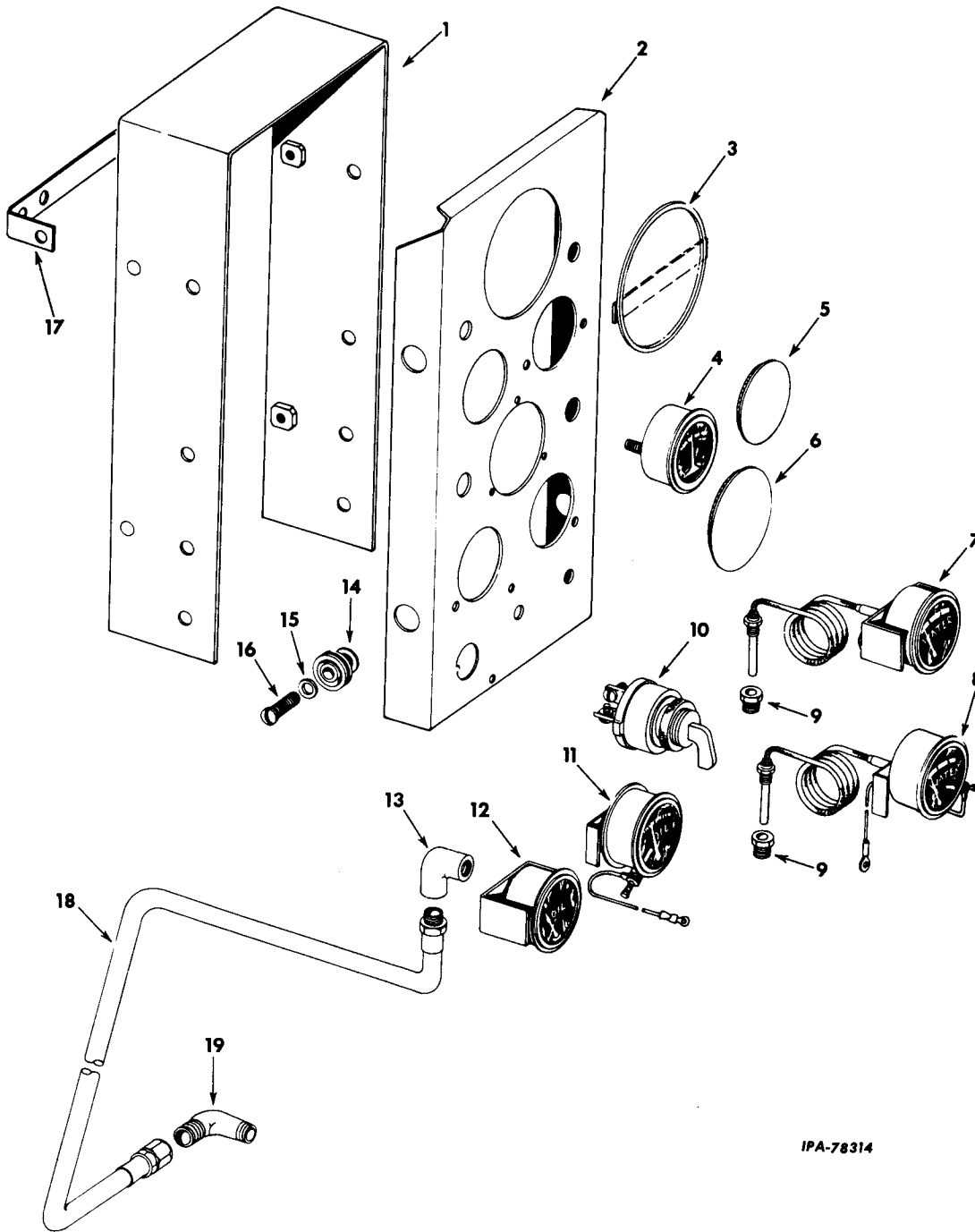
NOTE 1 - Factory Application - Order On Machine Order Form.
NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT
PANEL MOUNTING

INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT
PANEL MOUNTING - Continued



IPA-78314



ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT PANEL MOUNTING - Continued			INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT PANEL MOUNTING - Continued		
		Parts without letters after the description indicates the part is used for all attachments listed below: Letters "A," "B," and "C" are used to identify separate attachments.	18	346 592 R91	HOSE w/two FITTING, oil pressure indicator (HOSE, .19" ID x 17" long including FITTINGS) (Attachment C)
A	349 132 R91	ATTACHMENT, instruments and instrument panel (regular gauges) (for use on units equipped with Instrument Panel Mounting Attachment, 349 127 R91) (see NOTES 1 and 3)	19	118 753	ELBOW, 1/4" x 90° oil pressure hose (Attachment C)
B	349 133 R91	ATTACHMENT, instruments and instrument panel (safety gauges) (for use on units equipped with Instrument Panel Mounting Attachment, 349 127 R91) (see NOTES 1 and 3)		42 915 D	BLOCK, junction (Attachment B) (%)
C	349 127 R91	ATTACHMENT, instrument panel mounting (for use on units equipped with Instruments and Instrument Panel Attachment, 349 132 R91 or Instruments and Instrument Panel Attachment, 349 133 R91) (see NOTES 1 and 3)		42 917 D	BLOCK, w/BLOCK, 42 915 D and BRACKET, 42 916 D, junction (optional with 352 110 R91) (Attachment B) (%)
1	337 113 R11	FRAME, instrument panel (Attachment C) 3/8" NUT (4) 3/8 x 3/4" hex-hd cap SCREW (4) 3/8" lock WASHER (4)		352 110 R91	BLOCK w/BLOCK, 42 915 D and BRACKET, 42 916 D, junction (optional with 42 917 D) (Attachment B) (%) No. 8 NF NUT (cd or zn-pltd) 3/8" NUT 3/8 x 1/2" hex-hd cap SCREW No. 8 int tooth lock WASHER 3/8" lock WASHER
2	337 354 R2	PANEL, instrument (Attachments A and B)		42 916 D	BRACKET, junction block (Attachment B) (%) No. 10 NUT No. 10 x 1/2" slt-hd mach SCREW No. 10 lock WASHER
3	370 940 R11	COVER, tachometer opening (Attachments A and B)		63 713 DA	CABLE, relay to ignition switch (Attachment B) (%)
4	269 103 R91	AMMETER (Attachments A and B)		259 994 R91	CABLE, instrument panel ground (Attachment B) 3/8" int-ext lock WASHER No. 8 x 7/16" rd-hd sltd SCREW No. 8 x 7/16" int-ext lock WASHER No. 8 sq-mach NUT
5	432 577	PLUG, 2-3/32" button (Attachments A and B)		274 747 R91	CABLE, safety control to junction block (Attachment B) (%)
6	432 582	PLUG, 2-1/4" button (Attachments A and B)		274 747 R91	CABLE, relay to safety control switch (Attachment B) (%)
7	346 597 R91	INDICATOR, heat (Attachment A)		264 164 R1	CLIP, regulator cable (Attachment C)
8	347 602 R91	INDICATOR, safety heat (Attachment B)		327 071 R1	CLIP, capillary tube (Attachment C)
9	346 598 R1	ADAPTER, heat indicator (Attachment C)		362 120 R1	CLIP, cranking motor cable harness (Attachment C) (*)
10	327 144 R91	SWITCH, ignition and starting (Attachments A and B)		349 128 R91	HARNESS, cranking motor cable (Attachment C) (*)
11	347 604 R91	INDICATOR, safety oil pressure (Attachment B)		349 129 R91	HARNESS, ignition cable (Attachment C) (*)
12	313 177 R91	INDICATOR, oil pressure (Attachment A)		349 130 R91	HARNESS, regulator cable (Attachment C) (*)
13	9 409 923	ELBOW, 1/8" x 90° (optional with 444 193, and 444 502) (Attachments A and B)		2 752 445 R1	PRODUCT GRAPHIC, safety control switch escutcheon (Attachment B)
13	444 193	ELBOW, 1/8" x 90° (optional with 444 504 and 9 409 923) (Attachments A and B)		606 069 C91	RELAY, ignition cutout (Attachment B) (%)
13	444 504	ELBOW, 1/8 x 90° (optional with 444 193 and 9 409 923) (Attachments A and B)		603 884 C91	SWITCH, safety control toggle (optional with 253 818 R91) (Attachment B) (%)
14	336 419 R91	MOUNT, vibration (Attachments A and B)		253 818 R91	SWITCH, safety control toggle (optional with 603 884 C91) (Attachment B) (%)
15		WASHER, No. 10 lock (4 for Attachments A and B)			
16		SCREW, No. 10 x 7/8" rd-hd mach (4 for Attachments A and B)			NOTE 1 - Factory Application - Order On Machine Order Form. NOTE 3 - Field Application - Order Through Regular Service Parts Channels.
17	337 112 R1	BRACKET, instrument panel (2 for Attachment C) 3/8" NUT (4) 3/8 x 3/4" hex-hd cap SCREW (4) 3/8" lock WASHER (4)			% - Also Listed and Illustrated With "Electric Wiring (Safety Gauges)." * - Also Listed and Illustrated With "Electric Wiring (Regular Gauges)."



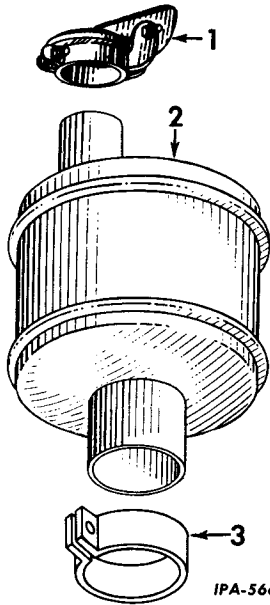
ATTACHMENTS



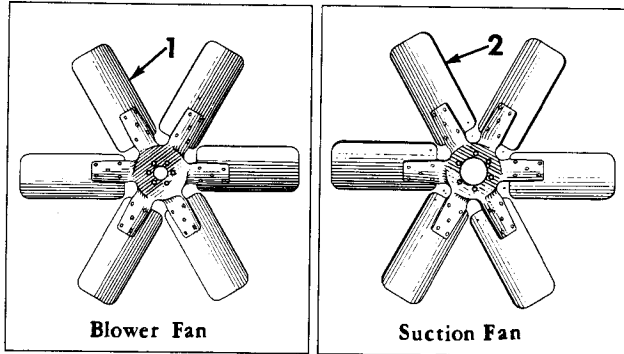
REF. PART NO.	PART NUMBER	DESCRIPTION	REF. PART NO.	PART NUMBER	DESCRIPTION
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EXHAUST MUFFLER AND RAIN CAP
(Nelson Muffler Co.)

FAN



IPA-56612 A



IPA-68869

Parts without letters after the description indicates the part is used for all attachments listed below. Letters A, B, C, D, E, and F are used to identify separate attachments.

332 518 R91	ATTACHMENT, exhaust rain cap (exhaust pipe attachment required for mounting) (see NOTES 1 and 3)
345 054 R91	ATTACHMENT, exhaust muffler (exhaust pipe attachment required for mounting) (see NOTES 1 and 3)
1 281 181 R91	CAP, exhaust rain (optional with 338 578 R91) (part of ATTACHMENT, 332 518 R91)
1 338 578 R91	CAP, exhaust rain (optional with 281 181 R91) (part of ATTACHMENT, 332 518 R91)
2 317 571 R91	MUFFLER, exhaust (T6869) (part of ATTACHMENT, 345 054 R91)
3 U-14284	CLAMP, exhaust muffler (part of ATTACHMENT, 345 054 R91) 1/4" NUT 1/4 x 2-1/2" hex-hd cap SCREW 1/4" lock WASHER 9/32 x 5/8 x 16 ga. WASHER

A	304 549 R93	ATTACHMENT, blower fan (18-1/2" dia. 6 blade w/1.00" spacer) (see NOTES 1 and 3)
B	316 168 R91	ATTACHMENT, blower fan (18" dia. 6 blade w/1.00" spacer) (for use with 48 H.P. flexible coupling ATTACHMENT, 318 004 R91) (see NOTES 1 and 3)
C	316 170 R91	ATTACHMENT, suction fan (18" dia. 6 blade w/1.38 spacer) (for use with 48 H.P. flexible coupling ATTACHMENT, 318 004 R91) (see NOTES 1 and 3)
D	320 165 R91	ATTACHMENT, suction fan (18-1/2" dia. 6 blade w/1.38" spacer) (see NOTES 1 and 3)
E	320 166 R91	ATTACHMENT, suction fan (18-1/2" dia. 6 blade w/1.62" spacer) (for use with 6.75" single "B" sheave auxiliary drive pulley ATTACHMENT, 318 002 R91) (see NOTES 1 and 3)
F	323 768 R91	ATTACHMENT, blower fan (18-1/2" dia. 6 blade w/1.31" spacer) (for use with auxiliary drive pulley ATTACHMENTS, 318 001 R91, 318 002 R91, or 318 003 R91) (see NOTES 1 and 3)
1	306 355 R91	FAN, blower (18-1/2" dia. 6 blades) (Attachments A and F)
1	317 720 R91	FAN, blower (18" dia. 6 blades) (Attachment B) 1/4NF x 1-5/8" hex-hd cap SCREW (4 for Unit B) 1/4NF x 2" hex-hd cap SCREW (4 for Unit F) 1/4NF x 1-3/4" hex-hd cap SCREW (4 for Unit A) 1/4" lock WASHER (4)
2	317 719 R91	FAN, suction (18" dia. 6 blades) (Attachment C)

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

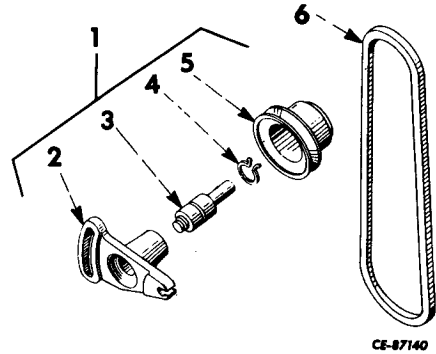
ATTACHMENTS

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

HIGH MOUNTED FAN DRIVE

2	321 565 R91	FAN, suction (18-1/2" dia. 6 blades) (Attachments D and E) 1/4NF x 2" hex-hd cap SCREW (4 for Unit C) 1/4NF x 2-1/4" hex-hd cap SCREW (4 for Unit D) 1/4NF x 2-1/2" hex-hd cap SCREW (4 for Unit E) 1/4" lock WASHER (4)
	316 169 R1	SPACER, fan (1.00") (Attachments A and B)
	574 100 R1	SPACER, fan (1.31") (Attachment F)
	304 575 R1	SPACER, fan (1.38") (Attachments C and D)
	318 008 R1	SPACER, fan (1.62") (Attachment E)



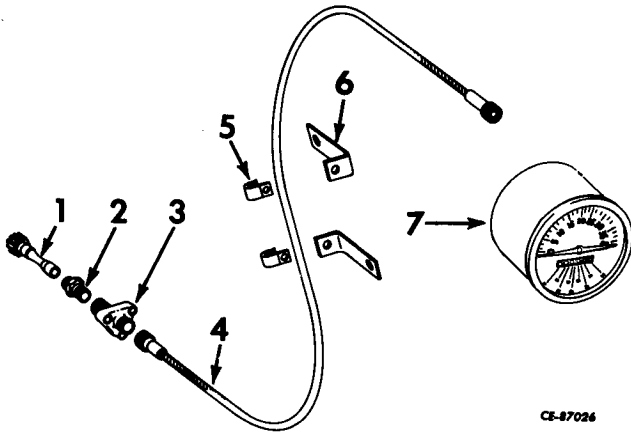
	601 718 C91	ATTACHMENT, high mounted fan drive (not for use with radiator and conn. attachment) (see NOTES 1 and 3)
1	609 401 C91	ADJUSTER, and fan pulley assembly 7/16 x 1-1/4 hex-hd cap SCREW 7/16 x 1-3/8 hex-hd cap SCREW 7/16 lock WASHER (2) Flat WASHER (2)
	264 630 R1	Flat WASHER (2)
2	609 400 C1	ADJUSTER, pulley
3	559 205 R91	SHAFT and BEARING
4	102 069 H	RING, bearing retainer
5	368 509 R1	PULLEY
6	149 635 R1	BELT, fan
	338 952 R91	PULLEY, vibration damper (*)

(*) - Also Listed And Illustrated Under
"Crankshaft, Flywheel Bearings, Stub
Shaft And Starting Crank."
NOTE 1 - Factory Application - Order On
Machine Order Form.
NOTE 3 - Field Application - Order Through
Regular Service Parts Channels.

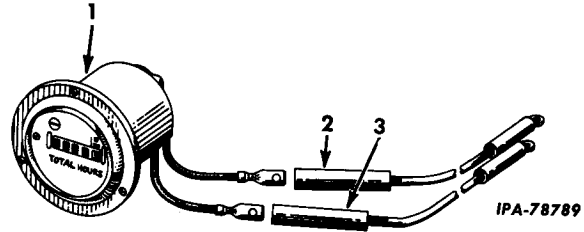
ATTACHMENTS

7

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TACHOURMETER			HOURMETER		



CE-87026



IPA-78789

349 134 R92	ATTACHMENT, tachourmeter (mechanical) (combination tachourmeter and service meter with correction factor dial) (for use with Novi mechanical governor and instrument and instrument panel ATTACHMENTS, 349 132 R91 and 349 133 R91) (see NOTES 1 and 3)	349 136 R91	ATTACHMENT, hourmeter (for use with instrument and panel ATTACHMENTS, 349 132 R91 and 349 133 R91) (see NOTES 1 and 3)
1 368 245 R12	GEAR, tachourmeter drive	1 610 820 C91	HOURMETER (Wilco 12 volt) No. 6 x 1/2" slt-rd-hd mach SCREW (3) No. 6 lock WASHER (3) No. 6 NUT (3)
2 368 246 R1	HOUSING, tachourmeter connection	2 271 066 R92	CABLE, hourmeter
3 63 364 H	ADAPTER, box type (1.440 ratio)	3 267 807 R91	CABLE, hourmeter to ground screw
4 306 394 R91	CABLE, tachourmeter drive (optional with 306 398 R91)		
4 306 398 R91	CABLE, tachourmèter (optional with 306 394 R91)		
5 73 163 H	CLIP, tachourmeter drive cable 1/4" NUT 1/4 x 1/2" hex-hd cap SCREW 1/4" lock WASHER		
6 56 787 R1	EXTENSION, tachourmeter drive cable clip		
7 338 595 R91	TACHOURMETER		
263 297 R2	CLAMP, tachourmeter No. 10 NUT (2) No. 10 lock WASHER (2)		

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



ATTACHMENTS



REF. PART NO. NUMBER	DESCRIPTION	REF. PART NO. NUMBER	DESCRIPTION
AUXILIARY DRIVE PULLEY		FLEXIBLE COUPLING	
318 001 R91	ATTACHMENT, auxiliary drive pulley (6.75" OD single "A" sheave) (for use with suction fan ATTACHMENT, 320 165 R91 or blower fan ATTACHMENT, 323 768 R91) (see NOTES 1 and 3)	318 004 R91	ATTACHMENT, flexible coupling (front power take-off (48 H.P. capacity) (for use with suction fan ATTACHMENT, 316 170 R91) (18" dia. 6 blade w/1.38" spacer) or blower fan ATTACHMENT, 316 168 R91 (18" dia. 6 blade w/1.00" spacer) (see NOTES 1 and 3)
318 002 R91	ATTACHMENT, auxiliary drive pulley (6.75" OD single "B" sheave) (for use with suction fan ATTACHMENT, 320 166 R91 or blower fan ATTACHMENT, 323 768 R91) (18-1/2" dia. 6 blade w/1.31" spacer) (see NOTES 1 and 3)	318 005 R91	ATTACHMENT, flexible coupling (front power take-off) (20 H.P. capacity) (for use with blower fan ATTACHMENT, 304 549 R91 and suction fan ATTACHMENT, 320 165 R91) (see NOTES 1 and 3)
318 003 R91	ATTACHMENT, auxiliary drive pulley (5.02" OD single "A" sheave (for use with suction fan ATTACHMENT, 320 165 R91 or blower fan ATTACHMENT, 323 768 R91) (see NOTES 1 and 3)	319 650 R91	COUPLING, flexible (part of ATTACHMENT, 318 005 R91)
284 358 R1	PULLEY, auxiliary drive (part of ATTACHMENT, 318 001 R91)	319 651 R91	COUPLING, flexible (part of ATTACHMENT, 318 004 R91) 3/8 x 7/8" soc-hd cap SCREW (4)
9 409 030	BOLT, 3/8 x 1-1/4" (Type "AA" lock) (4)		NUT, 1"NF crankshaft jam
318 007 R1	PULLEY, auxiliary drive (part of ATTACHMENT, 318 002 R91)		
9 409 231	BOLT, 3/8 x 1-1/2" (Type "AA" lock) (4)		
338 952 R91	PULLEY, auxiliary drive (part of ATTACHMENT, 318 003 R91)		

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



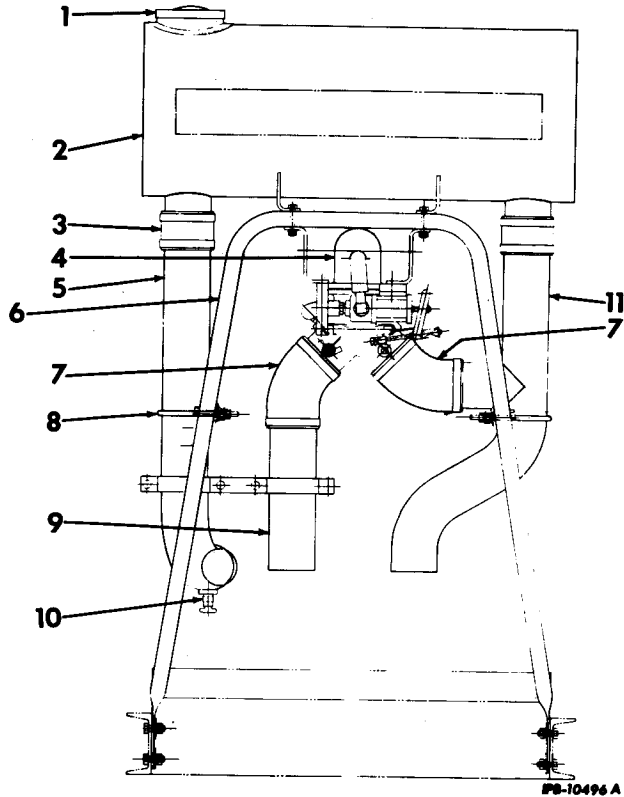
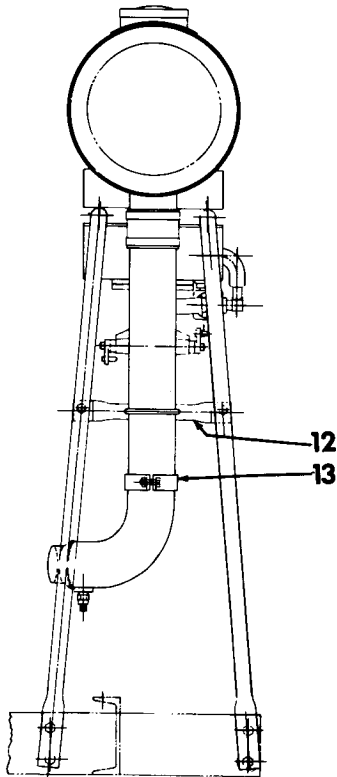
ATTACHMENTS



REF. PART NO. NUMBER	DESCRIPTION	REF. PART NO. NUMBER	DESCRIPTION
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EXPANSION TANK AND CONNECTIONS

EXPANSION TANK AND CONNECTIONS - Continued



PS-10496 A

332 181 R91	ATTACHMENT, expansion tank and connections (for use with flo-matic valve attachment and engine support attachment) (see NOTES 1 and 3)	9	316 059 R1	TUBE, water return	
1	317 654 R91	CAP, tank filler	10	31 729 D	VALVE, drain
2	316 029 R93	TANK w/PLUG, 103 874, water expansion 5/16" NUT (4) 5/16 x 1-3/4" hex-hd cap SCREW (4) 5/16" lock WASHER (4) 103 874 PLUG, 1/2" pipe	11	316 037 R11	TUBE, water inlet
3	407 015 R1	HOSE, inlet and outlet tube connector, 3" x 36" long (2)	12	316 036 R1	SUPPORT, tube (2) 5/16" NUT (4) 5/16 x 1-3/4" hex-hd cap SCREW (4) 5/16" lock WASHER (4) 11/32 x 11/16" x No. 16 ga. WASHER (4)
	279 029 R91	CLAMP, hose (4)	13	316 060 R1	SUPPORT, water return tube (2) 5/16" NUT (4) 5/16 x 1" hex-hd cap SCREW (4) 5/16" lock WASHER (4)
4		VALVE, flo-matic (not furnished as part of "Expansion Tank and Connections Attachments" (for components see list of parts under details of "Flo-Matic Valve"))	332 182 R1	ELBOW, engine water outlet	
5	316 040 R11	TUBE, water outlet	332 183 R1	ELBOW, engine water inlet	
6	316 035 R1	SUPPORT, expansion tank (2) 3/8" NUT (8) 3/8 x 1" hex-hd cap SCREW (8) 3/8" lock WASHER (8) 7/16" lock WASHER (8)	279 026 R91	CLAMP, hose (3)	
7	316 058 R2 279 029 R91	ELBOW, by-pass valve (2) CLAMP, hose (5)			
8	316 039 R1	"U" BOLT, water tube (2) 5/16" NUT (4) 5/16" lock WASHER (4) 11/32 x 11/16" x No. 16 ga. WASHER (4)			

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



MEMORANDA



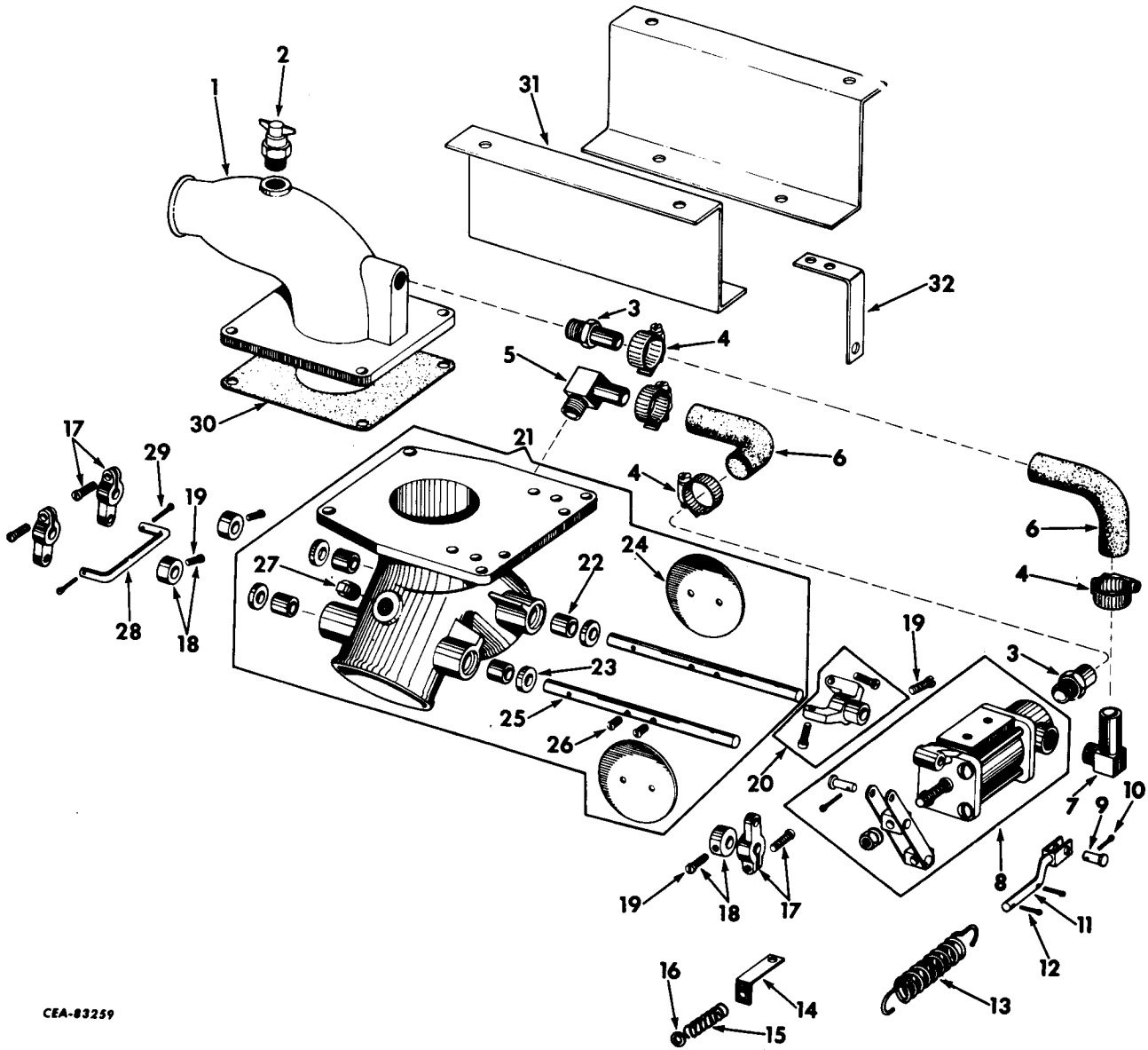


ATTACHMENTS



FLO-MATIC VALVE

FLO-MATIC VALVE - Continued



CEA-83259



ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FLO-MATIC VALVE - Continued			FLO-MATIC VALVE - Continued		
	332 184 R91	ATTACHMENT, flo-matic valve (see NOTES 1 and 3)	32	323 850 R1	BRACKET, return spring
1	316 253 R2	INLET, flo-matic valve			5/16" NUT
2	31 729 D	VALVE, 3/8" vent			5/16 x 7/8" hex-hd cap SCREW
3	171 819 R1	NIPPLE, 5/8 x 3/8" hose (2)			5/16" lock WASHER
4	274 085 R91	CLAMP, hose (4)	323 849 R92	VALVE ASSY, flo-matic	
5	171 807 R1	ELBOW, 5/8 x 3/8" x 90° hose (short)		(Composed of -	
6	169 192 R1	ELBOW, 90° x 5/8" rubber hose (2)		1 BODY	316 046 R42
7	120 879 R1	ELBOW, 5/8 x 3/8" x 90° hose (long)		1 BRACKET	323 850 R1
8	346 637 R91	CONTROL, vernatherm 1/4 x 5/8" hex-hd cap SCREW (2) 1/4" lock WASHER (2)		2 CLAMP	274 085 R91
9	102 776 H	PIN, rod end		1 CLIP	316 065 R1
10	107 761	PIN, 1/16 x 3/4" cotter		3 COLLAR	265 296 R91
11	316 063 R11	ROD w/CLEVIS, overtravel		1 CONTROL	346 637 R91
12	103 373	PIN, 3/32 x 3/4" cotter (2)		1 ELBOW	169 192 R1
13	61 635 D	SPRING, return		1 ELBOW	171 807 R1
14	316 065 R1	CLIP, return spring		3 LEVER	317 554 R91
15	300 415 R1	SPRING, overtravel		1 LINK	316 049 R1
16		WASHER, 9/32 x 5/8" x No. 16 ga. (2)		2 NIPPLE	171 819 R1
17	317 554 R91	LEVER ASSY, throttle shaft (3)		1 PIN	102 776 H
18	268 296 R91	COLLAR w/SCREW, 36 756 D, throttle shaft (3)		4 PIN	103 373
19	36 756 D	SCREW, set (4)		1 PIN	107 761
20	332 488 R91	STOP w/two SCREW, 11 189 V, throttle shaft		1 PLUG	445 686
	11 189 V	SCREW, throttle stop adjusting (2)		1 ROD	316 063 R11
21	316 046 R42	BODY ASSY, flo-matic valve (Composed of -		1 SCREW	36 756 D
		§ 1 BODY		4 SEAL	321 881 R91
		4 BUSHING	347 001 R1	1 SPRING	61 635 D
		§ 2 DISC		1 SPRING	300 415 R1
		2 SHAFT	612 179 C1	1 STOP	332 488 R91)
		4 SCREW			
		4 WASHER			
22	347 001 R1	BUSHING, throttle shaft (4)			
23	321 881 R91	SEAL, water (4)			
24		DISC, throttle (Not Furnished Separately)			
25	612 179 C1	SHAFT, throttle, flo-matic valve (2)			
26		SCREW, No. 6 x 7/16" slt-fil-hd (4) No. 6 lock WASHER (4)			
27	445 686	PLUG, 3/8" sq-hd pipe			
28	316 049 R1	LINK, throttle shaft lever			
29	103 373	PIN, 3/32 x 3/4" cotter (2) 9/32 x 5/8" x No. 16 ga. WASHER (2)			
30	316 048 R1	GASKET, flo-matic valve			
31	323 847 R1	SUPPORT, flo-matic valve (2) 5/16" NUT (4) 5/16 x 1-1/2" hex-hd cap SCREW 5/16 x 1-1/4" hex-hd cap SCREW (3) 5/16" lock WASHER (4)			

§ - Not Furnished Separately.
 NOTE 1 - Factory Application - Order On Machine Order Form.
 NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

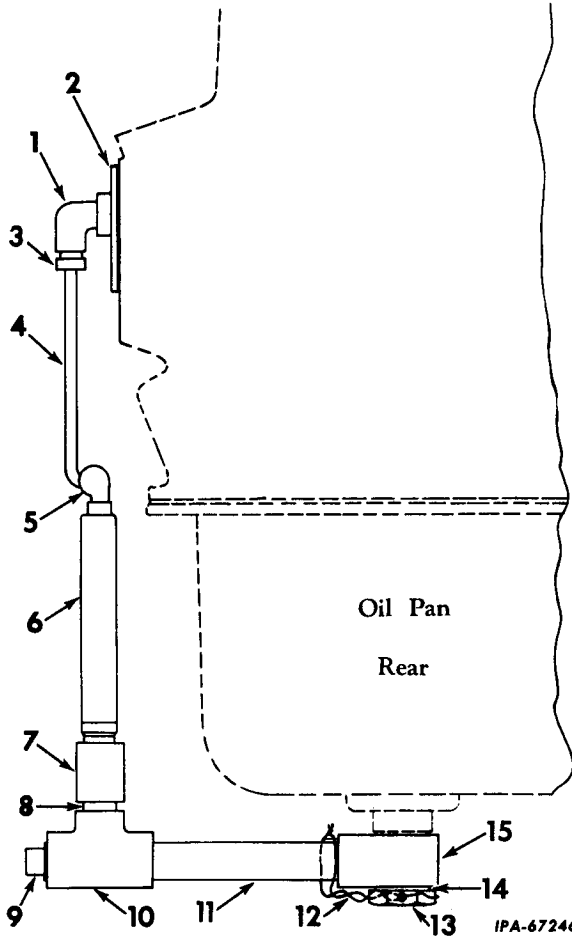


ATTACHMENTS



REF. PART NO. NUMBER	DESCRIPTION
OIL LEVEL SIGHT GAUGE (Not used with box type base)	

REF. PART NO. NUMBER	DESCRIPTION
OIL LEVEL SIGHT GAUGE - Continued (Not used with box type base)	



14	3 405 H	GASKET, oil pan drain (2)
15	332 173 R1	UNION, oil pan drain

312 998 R92	ATTACHMENT, oil level sight gauge (for use on Liquefied Petroleum Gas) (not used on units equipped with box type base) (see NOTES 1 and 3)	
1	252 374 R1	ELBOW, 90° vent tube
2	312 948 R11	COVER, fuel pump pad
3	369 987 R1	NUT, 1/4" coupling (2)
4	312 999 R1	TUBE, vent
5	30 402 D	ELBOW, vent tube
6	279 689 R91	GAUGE, oil level
7	120 755	COUPLING, 3/8" pipe
8	120 207	NIPPLE, 3/8 x 1" pipe
9	103 868	PLUG, 1/2" pipe
10	143 166	TEE, 1/2 x 1/2 x 3/8" oil level gauge
11	190 702	NIPPLE, 1/2 x 5" pipe
12	261 505 R1	WIRE, bulk locking (16 ga.) (customer must specify length required)
13	332 174 R1	BOLT, oil pan drain retaining

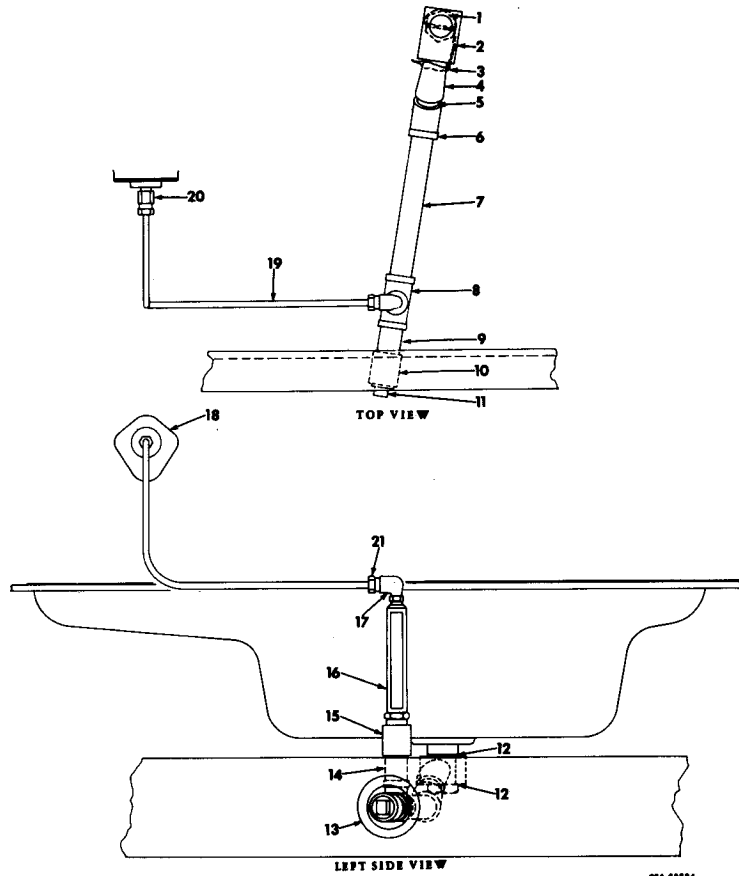
NOTE 1 - Factory Application - Order On Machine Order Form.
 NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
		OIL LEVEL SIGHT GAUGE (Used with box type base)			OIL LEVEL SIGHT GAUGE - Continued (Used with box type base)



	332 471 R91	ATTACHMENT, oil level sight gauge (for use on liquefied petroleum gas) (for use on units equipped with box type base) (see NOTES 1 and 3)	13	317 623 R1	GROMMET
1	332 174 R1	BOLT, oil pan drain retainer	14	173 001	NIPPLE, 3/8 x 1-3/4" pipe
2	332 173 R1	UNION, oil pan drain	15	120 755	COUPLING, 3/8" pipe
3	261 505 R1	WIRE, bulk locking (16 ga.) (customer must specify length required)	16	279 689 R91	GAUGE, oil level sight
4	137 894	ELBOW, 1/2" x 45° street	17	30 402 D	ELBOW, vent tube
5	144 610	NIPPLE, 1/2 x 1-3/8" pipe	18	312 948 R1	COVER, fuel pump pad
6	119 094	ELBOW, 1/2" x 45° pipe	19	995 061 R1	TUBE, vent (19-1/2" long, copper 1/4" OD (#))
7	187 249	NIPPLE, 1/2 x 7" pipe	20	59 730 H	CONNECTOR, vent tube
8	143 166	TEE, 1/2 x 1/2 x 3/8" pipe	21	369 987 R1	NUT, 1/4" (2)
9	140 537	NIPPLE, 1/2 x 2" pipe			
10	187 397	COUPLING, 1/2" pipe			
11	438 159	PLUG, 1/2" pipe			
12	3 405 H	GASKET, oil pan drain (2)			

NOTE 1 - Factory Application - Order On Machine Order Form.
 NOTE 3 - Field Application - Order Through Regular Service Parts Channels.
 (#) - Part Number And Price Covers One Foot Of Tubing. Furnished Only In 50 Foot Rolls.

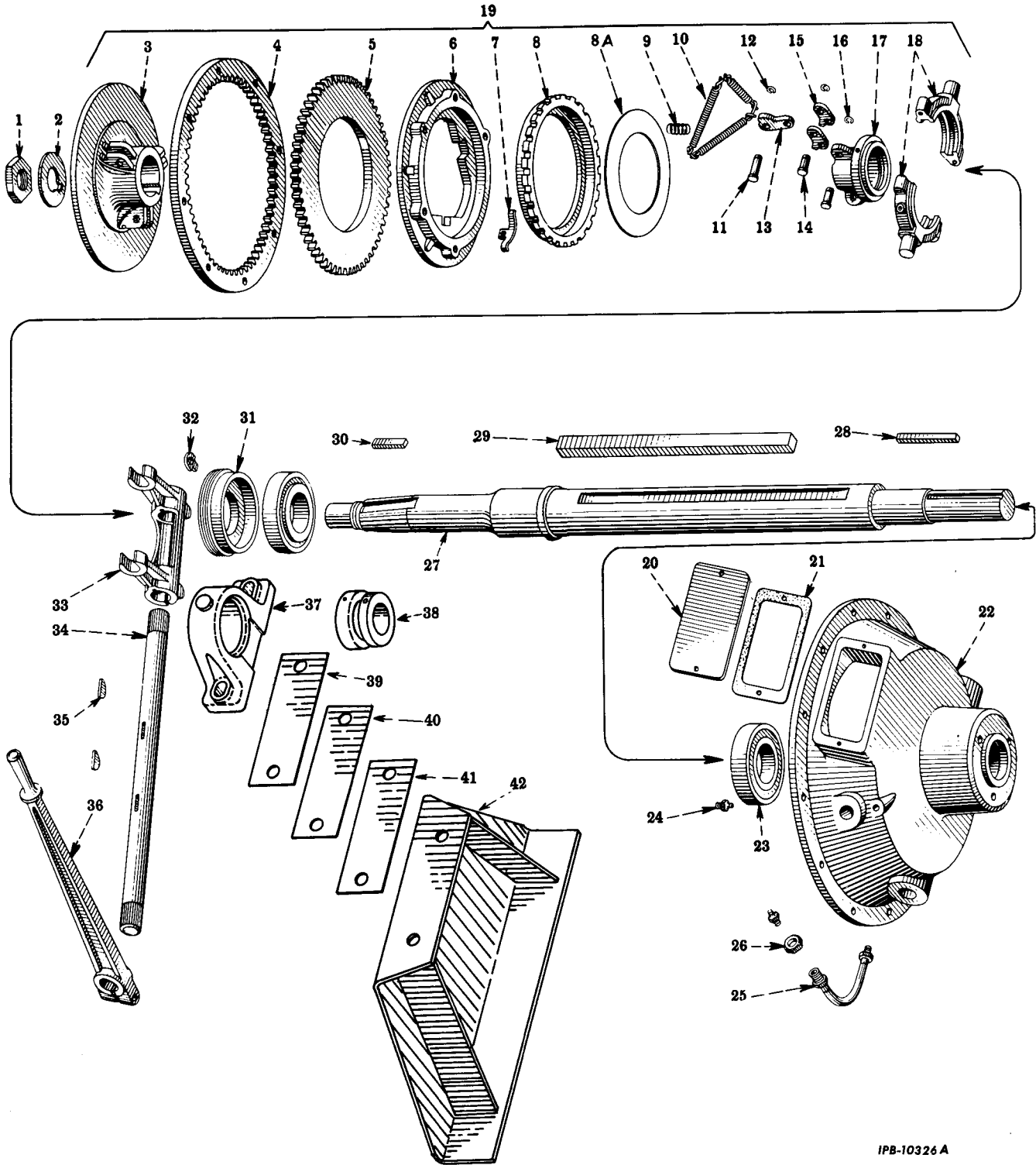


ATTACHMENTS



POWER TAKE-OFF WITH EXTENDED SHAFT
(Rockford)

POWER TAKE-OFF WITH EXTENDED SHAFT - Continued
(Rockford)



IPB-10326 A



ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
POWER TAKE-OFF WITH EXTENDED SHAFT - Continued (Rockford)			POWER TAKE-OFF WITH EXTENDED SHAFT - Continued (Rockford)		
1304	535 R91	ATTACHMENT, power take-off w/extended shaft (11-1/2" overcenter drive ring type clutch) (for light duty clutch and sideload applications at 2200 rpm or below) (See NOTES 1 and 3) (Composed of - 1 BEARING 305 861 R91 1 BLOCK 304 485 R91 1 BRACKET 304 573 R11 1 POWER TAKE-OFF 319 519 R91 1 SPACER 265 636 R1 1 SHIM 304 539 R1 1 SHIM 304 540 R1 1 SHIM 304 541 R1)	21	266 656 R1	GASKET, cover (PT-770)
1	266 681 R1	NUT, drive shaft (PT-732)	22	273 240 R1	HOUSING, clutch (PT-817-2)
2	273 212 R1	WASHER, drive shaft lock (PT-733-4)	23	13 396 DC	CONE, tapered roller bearing (2)
3	273 214 R1	BODY, clutch (CL-8498-7)	23	13 390 D	CUP, tapered roller bearing (2)
4	267 065 R1	RING, driving (CL-6950)	24	109 461	FITTING, lubrication (3)
5	338 903 R1	FACING, clutch (CL-6953-52)	25	266 667 R91	TUBE, flexible (PT-1026-1)
6	268 861 R91	PLATE, w/LOCK, 319 531 R1, pressure (UCL-9518)	26		NUT, 5/8NF (CL-4355)
7	319 531 R1	LOCK, positive (CL-9216)	27	273 209 R1	SHAFT, drive (PT-1466)
8	347 871 R1	NUT, adjusting (CL-8494-1)	28	268 864 R1	KEY, 3/8 x 3/8 x 3-1/2" (PT-1307)
8A	347 872 R1	PLATE, adjusting ring (CL-11861)	29	268 863 R1	KEY, 5/8 x 5/8 x 11-1/2" (PT-1308)
9	266 704 R1	SPRING, separator (CL-8541) (3)	30	273 211 R1	KEY, 3/8 x 3/8 x 2-1/4" (PT-1363)
10	268 865 R91	SPRING, lever (CL-9465)	31	266 660 R1	RETAINER, bearing (PT-727)
11	266 697 R1	PIN, clevis (CL-8400) (6)	32	266 661 R1	PLATE, lock (PT-44)
12	266 698 R1	RING, retaining (CL-7130) (6)	33	273 210 R91	YOKE, clutch (UPT-726-1)
13	268 866 R1	LEVER (CL-8556-1) (3)	34	266 663 R1	SHAFT, yoke (PT-822)
14	266 694 R1	PIN, clevis (CL-8484) (3)	35	124 553	KEY (PT-351) (2)
15	266 696 R1	LINK, connecting (CL-8557) (6)	36	266 666 R91	LEVER, shifting (UPT-87)
16	255 395 R1	RING, retaining (CL-7107) (3)	37	304 485 R91	BLOCK w/BEARING, 305 166 R91 and FITTING, 138 322 H, outboard bearing pillow (optional with 304 486 R91)
17	273 217 R1	SLEEVE, release (CL-8630-3)	37	304 486 R91	BLOCK w/BEARING, 305 167 R91, outboard bearing pillow (Optional with 304 485 R91) 1/2" NUT (2) 1/2 x 2" hex-hd cap SCREW (2) 1/2" lock WASHER (2) 17/32 x 1-11/16" x 13 ga. WASHER (2)
17	273 216 R91	SLEEVE, 273 217 R1 w/BEARING, 273 218 R91) (UCL-2-8630-3)	38	305 166 R91	BEARING w/locking COLLAR
18	273 218 R91	BEARING w/two NUT, 19 503 R1 and one PLUG, 103 883, release (UCL-5-6979)	38	305 167 R91	BEARING w/locking COLLAR
19	273 215 R91	CLUTCH ASSY (11-1/2") (CLA-2181-37) (Composed of - 1 BODY 273 214 R1 1 FACING 338 903 R1 3 LEVER 268 866 R1 6 LINK 266 696 R1 1 NUT 347 871 R1 3 PIN 266 694 R1 6 PIN 266 697 R1 1 PLATE 268 861 R91 1 PLATE 347 872 R1 3 RING 255 395 R1 6 RING 266 698 R1 1 RING 267 065 R1 1 SLEEVE w/BEARING 273 216 R91 3 SPRING 266 704 R1 1 SPRING 268 865 R91)	39	304 539 R1	SHIM, outboard bearing (heavy)
			40	304 540 R1	SHIM, outboard bearing (medium) (2)
			41	304 541 R1	SHIM, outboard bearing (light) (x)
			42	304 537 R11	BRACKET, outboard bearing
				305 861 R91	BEARING, clutch pilot (optional with 338 543 R91)
				338 543 R91	BEARING, clutch pilot (optional with 305 861 R91)
				273 355	FITTING, hydraulic lubricator (1/4" drive type) (2)
				19 503 R1	NUT, 5/16NF elastic stop (2)
					NOTE 1 - Factory Application - Order On Machine Order Form. NOTE 3 - Field Application - Order Through Regular Service Parts Channels.
20	321 481 R1	PLATE, instruction (PT-1593)			x - Four or More As Required.

ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION
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POWER TAKE-OFF WITH EXTENDED SHAFT - Continued
(Rockford)

319 519 R91	POWER TAKE-OFF w/extended SHAFT ASSY, (PTA-31140)	
	(Composed of -	
	1 CLUTCH	273 215 R91
	2 CONE	13 396 DC
	2 CUP	13 390 D
	3 FITTING	109 461
	2 FITTING	273 355
	1 GASKET	266 656 R1
	1 HOUSING	273 240 R1
	1 KEY	268 863 R1
	2 KEY	124 553
	1 KEY	268 864 R1
	1 KEY	273 211 R1
	1 LEVER	266 666 R91
	1 NUT	266 681 R1
	1 PLATE	321 481 R1
	1 PLATE	266 661 R1
	1 RETAINER	266 660 R1
	1 SHAFT	273 209 R1
	1 SHAFT	266 663 R1
	1 TUBE	266 667 R91
	1 WASHER	273 212 R1
	1 YOKE	273 210 R91)
	3/8 x 1-1/8" hex-hd cap SCREW (12)	
	3/8 x 1-1/2" hex-hd cap SCREW (8)	
	3/8" lock WASHER (20)	

103 883	PLUG, 1/8" slt-hd stl pipe (release bearing)	
	SCREW, 5/16NF x 2" hex-hd cap (release bearing) (2)	
	SCREW, 3/8 x 1-1/4" hex-hd cap (clutch yoke) (2)	
	SCREW, 1/4 x 3/8" fil-hd mach (pressure plate)	
	SCREW, 5/16 x 1/4" fl-pt set (clutch housing)	
	SCREW, 1/4 x 3/8" rd-hd mach (instruction plate) (2)	
	SCREW, 5/16 x 1/2" hex-hd cap (lock plate)	
	SCREW, 3/8 x 1-1/2" hex-hd cap (shifting lever)	

265 636 R1	SPACER, clutch pilot bearing	
	WASHER, 3/8" lock (clutch yoke) (3)	
	WASHER, 1/4" (Shakeproof) (pressure plate)	
	WASHER, 5/16" lock (lock plate)	



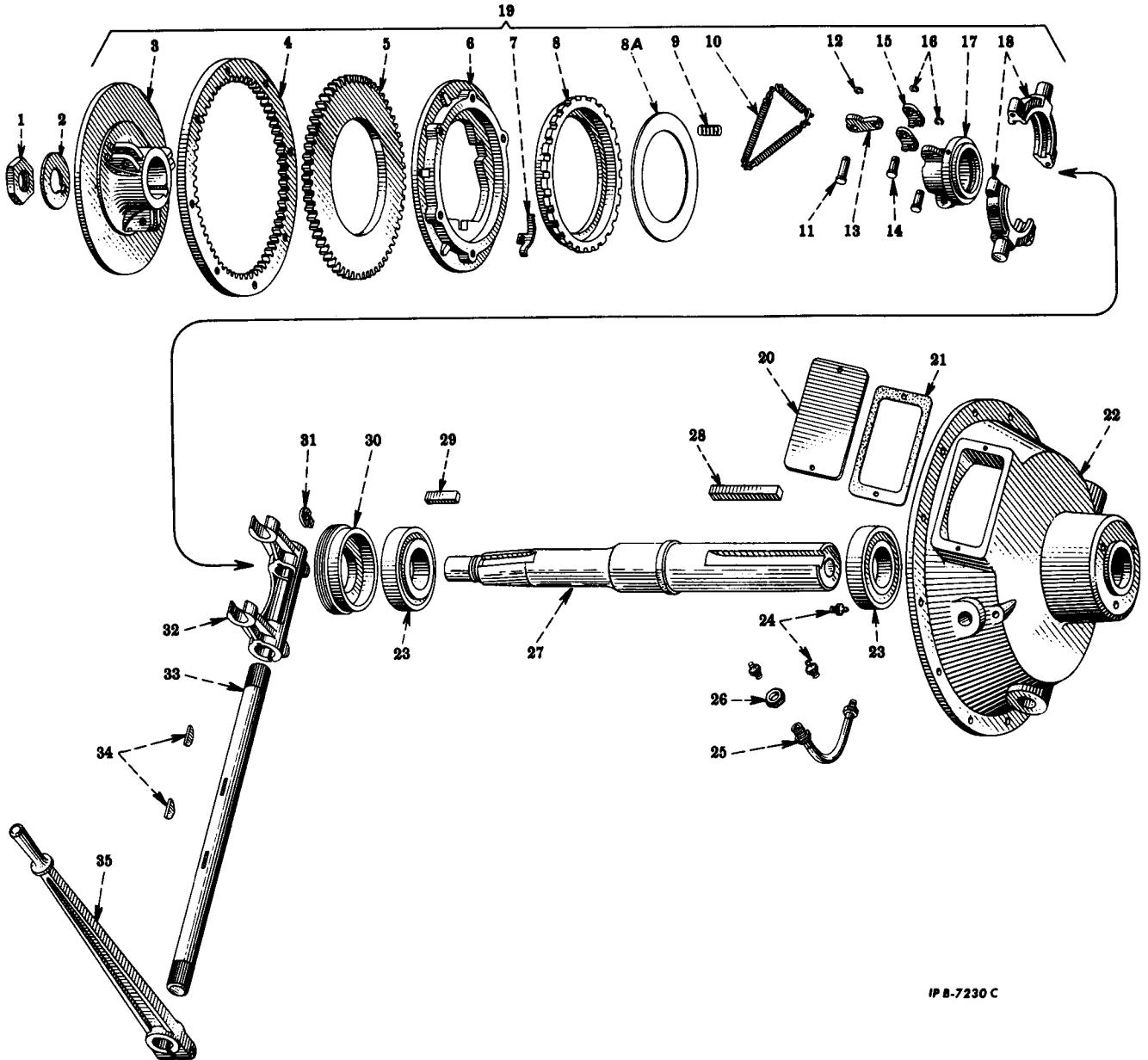
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ATTACHMENTS



REF. PART NO. NUMBER	DESCRIPTION	REF. PART NO. NUMBER	DESCRIPTION
POWER TAKE-OFF WITH STANDARD SHAFT (Rockford)		POWER TAKE-OFF WITH STANDARD SHAFT - Continued (Rockford)	



IP 8-7230 C

273 019 R92	ATTACHMENT, power take-off w/standard shaft (11-1/2" overcenter drive ring type clutch) (for light duty clutch and sideload applications at 2200 rpm or below) (Consists of BEARING, 305 861 R91, POWER TAKE-OFF, 319 524 R91 and SPACER, 265 636 R1) (see NOTES 1 and 3)	5	338 903 R1	FACING, clutch (CL-6953-52)	
1	266 681 R1	NUT, hex (PT-732)	6	268 861 R91	PLATE w/LOCK, 319 531 R1, pressure (UCL-9518)
2	273 212 R1	WASHER, lock (PT-733-4)	7	319 531 R1	LOCK, positive (CL-9216)
3	273 214 R1	BODY, clutch (CL-8498-7)	8	347 871 R1	NUT, adjusting (CL-8494-1)
4	267 065 R1	RING, driving (CL-6950)	8A	347 872 R1	PLATE, adjusting ring (CL-11861)

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



ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION
POWER TAKE-OFF WITH STANDARD SHAFT - Continued (Rockford)		
9	266 704 R1	SPRING, separator (CL-8541) (3)
10	268 865 R91	SPRING, lever (CL-9465)
11	266 697 R1	PIN, clevis (CL-8400) (6)
12	266 698 R1	RING, retaining (CL-7130) (6)
13	268 866 R1	LEVER (CL-8556-1) (3)
14	266 694 R1	PIN, clevis (CL-8484) (3)
15	266 696 R1	LINK, connecting (CL-8557) (6)
16	255 395 R1	RING, retaining (CL-7107) (3)
17	273 217 R1	SLEEVE, release (CL-8630-3)
18	273 218 R91	BEARING w/two NUT, 19 503 R1, and PLUG, 103 883, release (UCL-5-6979)
19	273 215 R91	CLUTCH ASSY (11-1/2") (CLA-2181-37) (Composed of -
	1	BODY 273 214 R1
	1	FACING 338 903 R1
	3	LEVER 268 866 R1
	6	LINK 266 696 R1
	1	NUT 347 871 R1
	3	PIN 266 694 R1
	6	PIN 266 697 R1
	1	PLATE 268 861 R91
	1	PLATE 347 872 R1
	3	RING 255 395 R1
	6	RING 266 698 R1
	1	RING 267 065 R1
	1	SLEEVE
		w/BEARING 273 216 R91
	3	SPRING 266 704 R1
	1	SPRING 268 865 R91)
20	321 481 R1	PLATE, instruction (PT-1593)
21	266 656 R1	GASKET, cover (PT-770)
22	273 240 R1	HOUSING, clutch (PT-817-2)
23	13 396 DC	CONE, tapered roller bearing (2)
23	13 390 D	CUP, tapered roller bearing (2)
24	109 461	FITTING, 1/8" pipe plug (3)
25	266 667 R91	TUBE, flexible (PT-1026-1)
26		NUT, 5/8NF
27	319 946 R1	SHAFT, drive (PT-1357-3)
28	267 060 R1	KEY (PT-780)
29	273 211 R1	KEY (PT-1363)
30	266 660 R1	RETAINER, bearing (PT-727)
31	266 661 R1	PLATE, lock (PT-44)
32	273 210 R91	YOKE, clutch (UPT-726-1)
33	266 663 R1	SHAFT, yoke (PT-822)
34	113 782	KEY (PT-351) (2)
35	266 666 R91	LEVER, shifting (UPT-87)
	305 861 R91	BEARING, clutch pilot (optional with 338 543 R91)
	338 543 R91	BEARING, clutch pilot (optional with 305 861 R91)

REF. NO.	PART NUMBER	DESCRIPTION
POWER TAKE-OFF WITH STANDARD SHAFT - Continued (Rockford)		
19	503 R1	NUT, 5/16NF elastic stop (2)
319	524 R91	POWER TAKE-OFF w/11-1/2" single plate overcenter drive ring type clutch ASSY (PTA-31133) (Composed of -
	1	CLUTCH 273 215 R91
	2	CONE 13 396 DC
	2	CUP 13 390 D
	3	FITTING 109 461
	2	FITTING 273 355
	1	GASKET 266 656 R1
	1	HOUSING 273 240 R1
	2	KEY 113 782
	1	KEY 267 060 R1
	1	KEY 273 211 R1
	1	LEVER 266 666 R91
	1	NUT 266 681 R1
	1	PLATE 266 661 R1
	1	PLATE 321 481 R1
	1	RETAINER 266 660 R1
	1	SHAFT 266 663 R1
	1	SHAFT 319 946 R1
	1	TUBE 266 667 R91
	1	WASHER 273 212 R1
	1	YOKE 273 210 R91)
		3/8 x 1-1/8" hex-hd cap SCREW (12)
		3/8 x 1-1/2" hex-hd cap SCREW (8)
		3/8" lock WASHER (20)
	103 883	PLUG, 1/8" slt-hd pipe (steel) (PT-989)
		SCREW, 3/8 x 1-1/2" hex-hd cap
		SCREW, 1/4 x 3/8" rd-hd mach (2)
		SCREW, 3/8 x 1-1/4" hex-hd cap (2)
		SCREW, 1/4 x 3/8" fil-hd
		SCREW, 5/16 x 1/2" hex-hd cap
		SCREW, 5/16NF x 2" hex-hd cap (2)
		SCREW, 5/16 x 1/4" f-pt set
273	216 R91	SLEEVE, 273 217 R1 w/release BEARING, 273 218 R91, release (UCL-2-8630-3)
265	636 R1	SPACER, clutch pilot bearing
		WASHER, 5/16" lock
		WASHER, 3/8" lock (3)
		WASHER, 1/4" (Shakeproof)

ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
POWER TAKE-OFF (Twin-Disc)			POWER TAKE-OFF - Continued (Twin-Disc)		
		Parts without letters after the description indicates the part is used for all attachments listed below. Letters "A", "B", "C", and "D" are used to identify separate attachments.	60 610 D		KEY, belt pulley short (Attachment B)
			60 614 D		KEY, belt pulley long (Attachment B)
A	266 818 R92	ATTACHMENT, power take-off w/standard shaft (11-1/2" single plate overcenter drive ring type clutch) (for light duty and sideload applications w/PTO speeds of 2200 rpm or below) (see NOTES 1 and 3)	321 056 R91		POWER TAKE-OFF w/extended shaft ASSY (Twin-Disc Spec. No. 26713) (Attachment B) (*)
B	304 536 R91	ATTACHMENT, power take-off w/extended shaft (11-1/2" overcenter drive ring type clutch) (for light duty and sideload applications w/PTO speeds of 2200 rpm or below) (see NOTES 1 and 3)	321 057 R91		POWER TAKE-OFF w/standard shaft ASSY (Twin-Disc Spec. No. 26769) (Attachment A) (*)
C	345 345 R91	ATTACHMENT, power take-off w/standard shaft (11-1/2" single plate overcenter drive ring type clutch) (for light duty and sideload applications w/PTO speeds above 2200 rpm) (high speed) (see NOTES 1 and 3)	346 882 R91		POWER TAKE-OFF w/standard shaft ASSY (Twin-Disc Spec. No. 30287) (Attachments C and D) (*) 3/8 x 1-1/8" hex-hd cap SCREW (12) 3/8 x 1-1/2" hex-hd cap SCREW (8) 3/8" lock WASHER (20)
D	345 346 R91	ATTACHMENT, power take-off with standard shaft (11-1/2" single plate overcenter drive ring type clutch) (for light duty and sideload applications w/PTO speeds above 2200 rpm) (high speed) (for use with rear mounted instrument and panel safety gauge attachment) (see NOTES 1 and 3)	304 539 R1		SHIM, outboard bearing heavy (Attachment B)
	305 861 R91	BEARING, clutch pilot (optional with 338 543 R91)	304 540 R1		SHIM, outboard bearing medium (2 for Attachment B)
	338 543 R91	BEARING, clutch pilot (optional with 305 861 R91)	304 541 R1		SHIM, outboard bearing light (4 or more for Attachment B)
	308 610 R91	BLOCK w/BEARING, 305 167 R91, outboard bearing pillow (optional with 304 484 R91, 304 485 R91 and 304 486 R91) (Attachment B)	265 636 R1		SPACER, clutch pilot bearing
	304 484 R91	BLOCK w/BEARING, 305 165 R91, outboard bearing pillow (optional with 304 485 R91 or 304 486 R91 and 308 610 R91) (Attachment B)	183 350 R91		SWITCH, temperature (250°) (Attachment D)
	304 485 R91	BLOCK w/BEARING, 305 166 R91 and FITTING, 138 322 H, outboard bearing pillow (optional with 304 484 R91 or 304 486 R91 and 308 610 R91) (Attachment B)			
	304 486 R91	BLOCK w/BEARING, 305 167 R91, outboard bearing pillow (optional with 304 484 R91 or 304 485 R91 and 308 610 R91) (Attachment B) 1/2" NUT (2) 1/2 x 2" hex-hd cap SCREW (2) 1/2" lock WASHER (2) 17/32 x 1-11/16" x 13 ga. WASHER (2)			
	304 537 R11	BRACKET, outboard bearing (Attachment B)			* - Order Detail Service Parts From Nearest Twin-Disc Distributor.
	345 347 R91	CABLE, temperature switch to junction block (Attachment D)			NOTE 1 - Factory Application - Order On Machine Order Form.
	366 460 R1	CLIP, cable (mount on power take-off bolts) (2 for Attachment D)			NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



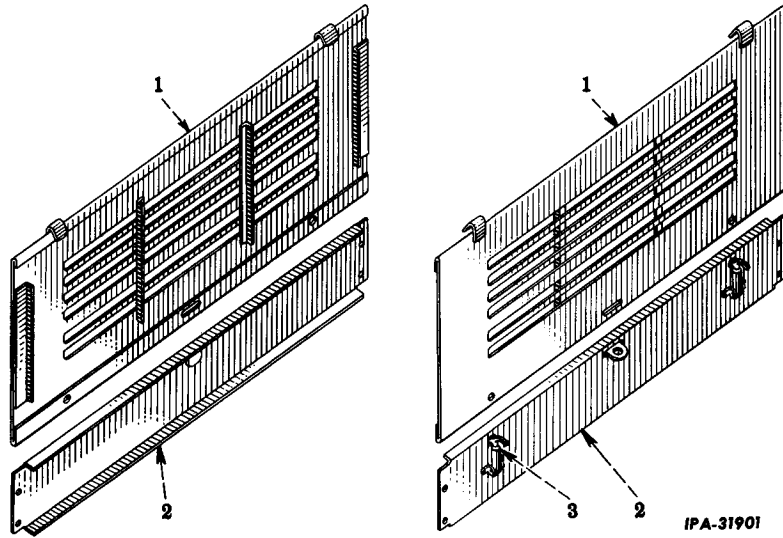
ATTACHMENTS

REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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HOOD SIDE DOOR

HOOD SIDE DOOR - Continued



- | | | |
|---|-------------|---|
| | 268 227 R91 | ATTACHMENT, hood side doors (see NOTES 1 and 3) |
| 1 | 268 228 R11 | DOOR, hood side (2) |
| 2 | 268 230 R11 | SHEET, hood side (2)
3/8" NUT (8)
3/8 x 3/4" hex-hd cap SCREW (8)
3/8" lock WASHER (8) |
| 3 | 353 443 R91 | LATCH, hood side door (4)
3/16 x 5/16" f-hd RIVET (8) |

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

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

ATTACHMENTS

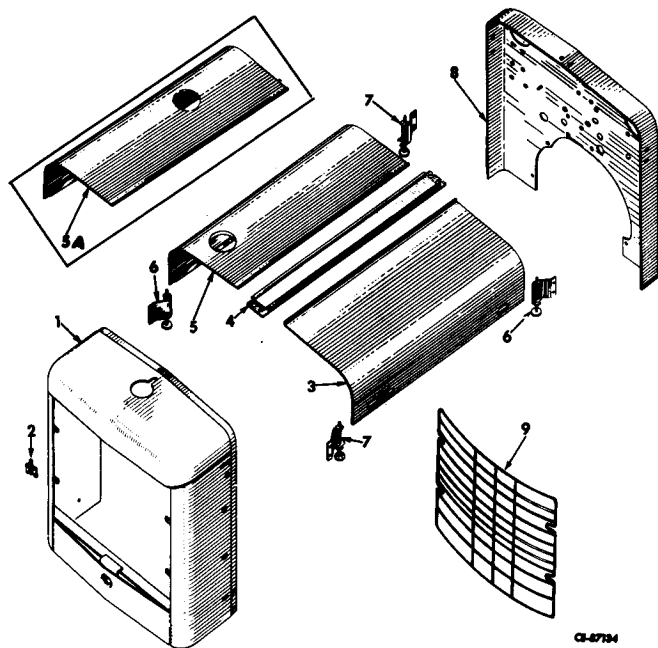
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REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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GRILLE, HOOD AND DASH

GRILLE, HOOD AND DASH - Continued



7	265 585 R91	HOOK, LH hood clamp (2 for Attachments C and D) 5/16 x 1/2" hex-hd cap SCREW (4) 5/16" lock WASHER (4)
8	349 146 R1	DASH (Attachments C and D) 3/8" lock WASHER (4) 3/8 x 5/8" hex-hd cap SCREW (4)
9	320 139 R1 321 719 R91 354 837 R1	GRILLE, hi-flow (Attachments A and B) BOLT, grille (4) WASHER, flat (4)
		NUT, 3/8" (+) (2 for Attachments C and D)
		SCREW, 3/8 x 3/4" hex-hd cap (+) (2 for Attachments C and D)
		SCREW, 3/8 x 3/8" hex-hd cap (+) (2 for Attachments C and D)
		WASHER, 3/8" lock (+) (4 for Attachments C and D)

Parts without letters after the description indicate the part is used for all attachments listed below. Letters A, B, C and D are used to identify separate attachments.

A	320 136 R91	ATTACHMENT, hi-flow radiator grille (not for use with radiator shutter) (see NOTES 1 and 3)
B	320 137 R91	ATTACHMENT, hi-flow radiator grille (for use with radiator shutter) (see NOTES 1 and 3)
C	349 145 R91	ATTACHMENT, hood and dash (order 601 715 C91)
D	601 715 C91	ATTACHMENT, hood and dash (see NOTES 1 and 3)
1	320 138 R1	HOUSING, radiator grille (Attachment A)
1	320 140 R91	HOUSING, radiator grille (Attachment B) 5/16 x 1/2" hex-hd cap SCREW (8) 5/16" lock WASHER (8)
2	275 194 R91 363 284 R2	EMBLEM, "IH" (Attachments A and B) FASTENER, "IH" emblem (2)
3	265 581 R1	HOOD, LH engine (Attachments C and D)
4	268 390 R11	STRIP, hood center (Attachments C and D) 3/8" NUT (4) 3/8 x 5/8" hex-hd cap SCREW (4) 3/8" lock WASHER (4)
5	601 716 C1	HOOD, RH engine (Attachment D)
5	304 582 R1	HOOD, RH engine (Attachment C)
6	265 586 R91	HOOK, RH hood clamp (2 for Attachments C and D) 5/16 x 1/2" hex-hd cap SCREW (4) 5/16" lock WASHER (4)

+ - For Use With Dash When Instrument And Panel Attachment Is Not Rear Mounted.
NOTE 1 - Factory Application - Order On Machine Order Form.
NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

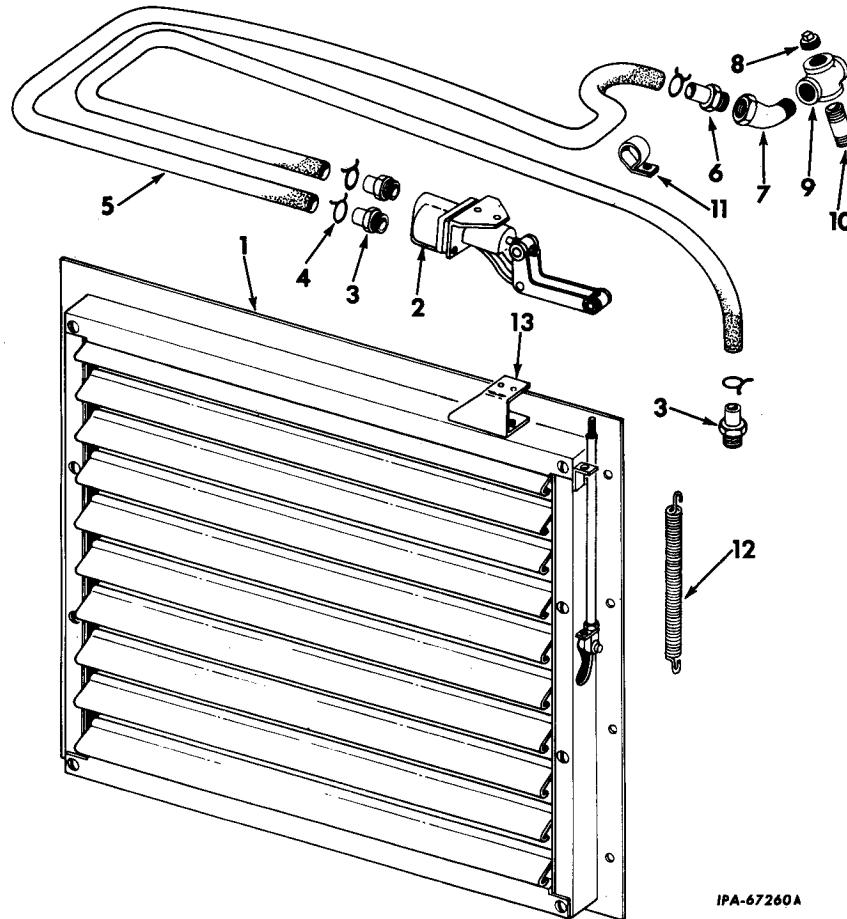
ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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RADIATOR SHUTTER
(Automatic) (Kysor Heater)

RADIATOR SHUTTER - Continued
(Automatic) (Kysor Heater)



IPA-67260A

318 021 R91	ATTACHMENT, radiator shutter (see NOTES 1 and 3)	8	438 159	PLUG, 1/2" pipe
1	313 326 R91 SHUTTER w/CONTROL, 615 236 C91, CONTROL BRACKET, 615 237 C1, and SPRING, 317 785 R1, radiator (M1856)	9	142 340	CROSS, 1/2" pipe
	5/16 x 1/2" hex-hd cap SCREW (8)	10	144 610	NIPPLE, 1/2 x 1-3/8" pipe
	5/16" lock WASHER (8)	11	301 819 R1	CLIP, hose
2	615 236 C91 CONTROL, vernatherm (C-16318-165)	12	317 785 R1	SPRING, control rod (7785)
	1/4NF x 1/2" hex-hd cap SCREW (cd-pltd) (4)	13	615 237 C1	BRACKET, control (C23102)
	1/4" lock WASHER (4)		445 673	PLUG, 3/8" pipe
3	171 819 R1 NIPPLE, hose (3)			WASHER, 5/16 x 3/4 x .065" (cd-pltd)
4	112 700 R1 CLAMP, hose (4)			3/32 x 1/2" cotter PIN
5	312 278 R1 HOSE, radiator to vernatherm (5/8 x 15/16 x 49") (2)			
6	171 820 R1 NIPPLE, hose			
7	137 894 ELBOW, 1/2 x 45° street			

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

ATTACHMENTS

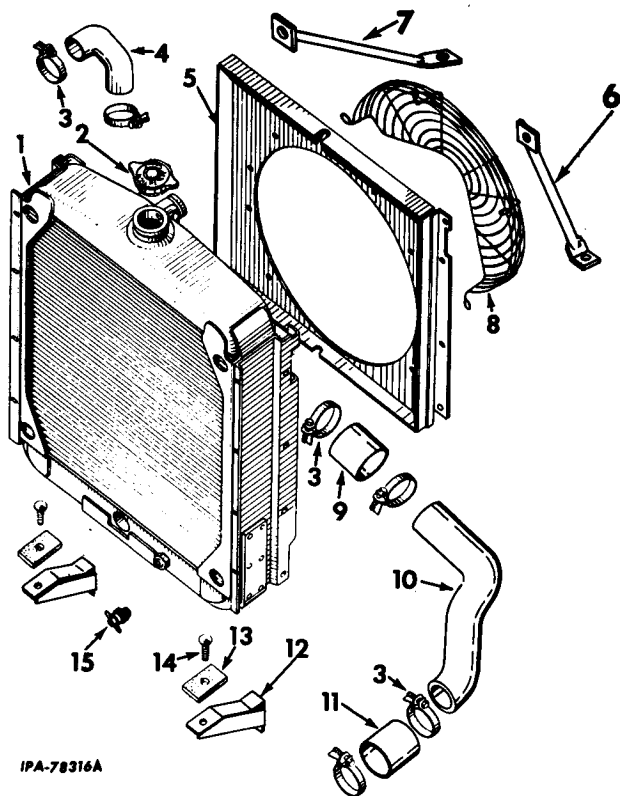


REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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FAN GUARD, RADIATOR AND CONNECTIONS

FAN GUARD, RADIATOR AND CONNECTIONS - Continued



IPA-78316A

8	304 578 R91	GUARD, fan (Attachment A) 5/16 x 1/2" hex-hd cap SCREW (4) 5/16" lock WASHER (4) 11/32 x 11/16" x 16 ga WASHER (4)
9	407 008 R1	HOSE, upper radiator outlet elbow (2 x 2-3/16 x 2-1/4" long *) (Attachment B)
10	305 197 R1	ELBOW, radiator outlet (Attachment B)
11	407 009 R1	HOSE, lower radiator outlet elbow (2-1/8 x 2-5/16 x 1-7/8" long *) (Attachment B)
12	310 336 R11	SUPPORT, radiator (2 for Attachment B) 5/8" NUT (4) 5/8 x 1-1/4" hex-hd cap SCREW (2) 5/8 x 1-1/2" hex-hd cap SCREW (2) 5/8" lock WASHER (4)
13	265 597 R1	PAD, radiator (2 for Attachment B)
14	15 024 R1	BOLT, radiator mounting (2 for Attachment B) 7/16" NUT (2) 7/16" lock WASHER (2) 15/32 x 59/64" x 16 ga WASHER (2)
15	31 729 D	VALVE, radiator drain (Attachment B)
	445 673	PLUG, water inlet

Parts without letters after the description indicates the part is used for all attachments listed below: Letters "A" and "B" are used to identify separate attachments.

A	304 577 R91	ATTACHMENT, fan guard (see NOTES 1 and 3)
B	305 193 R92	ATTACHMENT, radiator and connections (see NOTES 1 and 3)
1	265 595 R93	RADIATOR (Attachment B)
2	361 705 R91	CAP, radiator (Attachment B)
3	274 088 R91	CLAMP, radiator elbow (6 for Attachment B)
4	304 596 R1	ELBOW, radiator inlet (Attachment B)
5	320 141 R11	SHROUD, fan (Attachment B) 5/16 x 1/2" hex-hd cap SCREW (6) 5/16" lock WASHER (6)
6	601 712 C1	BRACE, radiator, L. H. (Attachment B) 7/16 x 3/4" hex-hd cap SCREW
7	601 713 C1	BRACE, radiator, R. H. (Attachment B)

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

* - Part Number and Price Covers One Foot Of Hose. Furnished Only In Three Foot Lengths.



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ATTACHMENTS

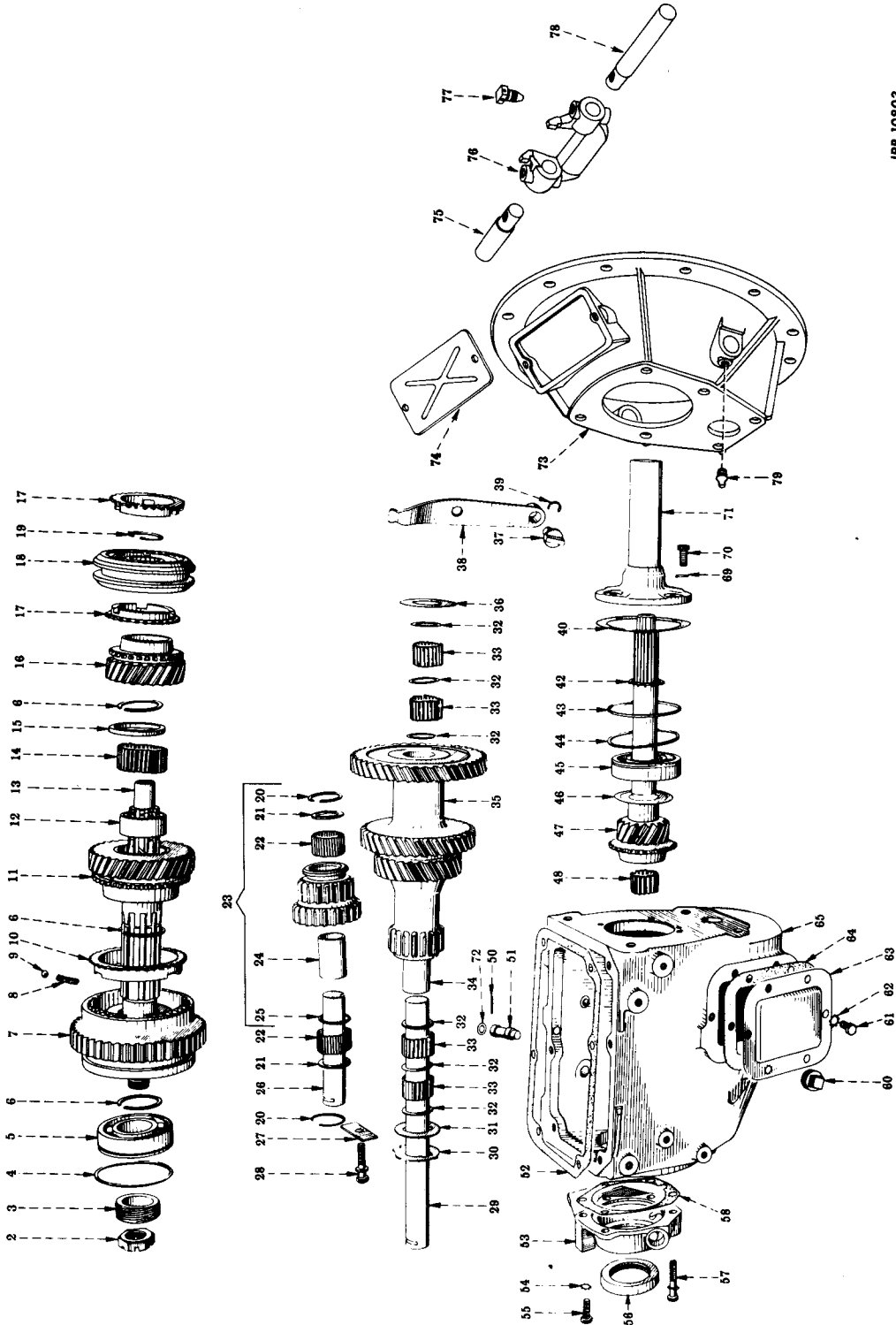


TRANSMISSION
(Four Speed Synchromesh) (Warner)

TRANSMISSION CASE, GEARS, CLUTCH HOUSING AND RELATED PARTS

TRANSMISSION - Continued
(Four Speed Synchromesh) (Warner)

TRANSMISSION CASE, GEARS, CLUTCH HOUSING AND RELATED PARTS - Continued



IPB-10803



ATTACHMENTS



REF. PART NO. NUMBER DESCRIPTION

TRANSMISSION - Continued

(Four Speed Synchromesh) (Warner)

312 839 R91 ATTACHMENT, transmission (four speed synchromesh) (see NOTES 1 and 3) (Consists of all parts listed under "TRANSMISSION (Four Speed Synchromesh) (Warner)") (For use with 12" spring loaded clutch and controls ATTACHMENT, 312 837 R91 and FLYWHEEL, 312 563 R91)

TRANSMISSION CASE, GEARS, CLUTCH HOUSING AND RELATED PARTS - Continued

313 739 R91 TRANSMISSION ASSEMBLY (with CONTROL HOUSING) (AS-105-T98A) (part of ATTACHMENT, 312 839 R91)
3/8 x 1-1/8" hex-hd cap SCREW (12)
3/8" lock WASHER (12)

2 59 585 R1 NUT, mainshaft (J1-50)

3 317 627 R1 SPACER, speedometer drive gear (T98-75-1/2)

4 77 945 R1 RING, mainshaft snap (4745E)

5 ST 236 BEARING, main drive gear

6 71 843 R1 RING, mainshaft second speed gear snap (4745 D) (3)

7 82 092 R91 SYNCHRONIZER, low and second speed (AT98-80)

8 73 298 R1 SPRING, low and second speed synchronizer (T87D-42) (3)

9 16 012 R1 BALL, 3/8" low and second speed synchronizer (3)

10 71 847 R1 RING, second speed synchronizer blocking (T-98-83)

11 154 075 R1 GEAR, mainshaft second speed (T98A-31)

12 82 079 R1 SPACER, mainshaft second speed gear (T-98-65)

13 71 834 R2 SHAFT, main (T-98-2A)

14 71 846 R1 ROLLER, mainshaft second speed bearing (4741) (34)

15 71 842 R1 WASHER, mainshaft second speed gear thrust (T98-63)

16 154 076 R11 GEAR w/BUSHING, 72 202 R1, mainshaft third speed (AT98A-11)

17 71 840 R1 RING, third and high speed synchronizer blocking (T87D-14) (2)

18 71 835 R91 SYNCHRONIZER, mainshaft third and high speed clutch (1AT87D-2-1/2C)

19 71 841 R1 RING, third and high speed synchronizer hub snap (4747)

20 91 092 R1 RING, reverse idler gear snap (4757) (2)

21 91 091 R1 WASHER, reverse idler gear thrust (T98-84A) (2)

22 91 094 R1 ROLLER, reverse idler gear bearing (F1-42) (74)

23 91 089 R11 GEAR ASSY, reverse idler (AT-98-10A)

24 91 095 R1 SLEEVE, reverse idler gear bearing (T98-85A)

25 91 093 R1 SPACER, reverse idler gear bearing (T98-87A)

26 59 423 R1 SHAFT, reverse idler gear (T97-35)

27 317 628 R1 PLATE, countershaft reverse idler gear shift lock (T97-48)

28 SCREW, 3/8 x 3/4" hex-hd cap (2)
3/8" lock WASHER (2)

29 71 860 R1 COUNTERSHAFT (T98-3)

30 71 859 R1 WASHER, countershaft rear thrust (outer) (T98-33)

31 154 078 R1 WASHER, countershaft rear thrust (inner) (T98A-32)

32 59 572 R1 WASHER, countershaft bearing spacer (T97-29) (6)

33 59 574 R1 ROLLER, countershaft gear bearing (T97-166) (88)

34 95 363 R1 SPACER, countershaft gear bearing (T98-28A)

35 154 077 R1 GEAR, countershaft (T98A-8)

36 71 857 R1 WASHER, countershaft thrust (T98-30)

37 91 090 R1 SHOE, reverse shifting (T98-51A)

REF. PART NO. NUMBER DESCRIPTION

TRANSMISSION - Continued

(Four Speed Synchromesh) (Warner)

TRANSMISSION CASE, GEARS, CLUTCH HOUSING AND RELATED PARTS - Continued

38 147 922 R1 ARM, reverse shifting (T98-54N)

39 82 084 R1 WASHER, "C" shifting shoe (4747A)

40 77 946 R1 GASKET, main drive gear bearing retainer
.009" thick (T98-145)
77 947 R1 .0135" thick (T98-145A)
77 948 R1 .018" thick (T98-145B)
77 949 R1 .0225" thick (T98-145C)

42 137 244 R1 RING, drive gear bearing snap (small)
.117" thick (4816)

43 77 945 R1 RING, main drive gear bearing snap (large) (4745 E)

44 82 076 R1 RING, main drive gear bearing spacer (4774)

45 ST 236 BEARING, main drive gear ball

46 80 175 R1 BAFFLE, main drive gear oil (T90A-136A)

47 154 074 R1 GEAR, main drive (T98A-16G)

48 59 579 R1 ROLLER, mainshaft bearing (T97-26) (16)

50 103 565 PIN, reverse shifting arm screw

51 147 921 R1 PIN, reverse shifting arm pivot (T98-55N)

52 71 855 R1 GASKET, control lever housing (T98-115)

53 80 224 R11 RETAINER w/SLEEVE, 26 905 H (AT98-7A)

54 WASHER, 3/8" external lock (5)

55 SCREW, 3/8 x 2" hex-hd cap

56 59 586 R91 OIL SEAL, mainshaft

57 SCREW, 3/8 x 2" hex-hd cap

58 80 228 R1 GASKET, mainshaft rear bearing retainer
.025" thick (T98-145-1/2C)

60 103 881 PLUG, 3/4" sq-hd pipe (Steel) (optional with 219 301) (2)

60 219 301 PLUG, 3/4" sq-hd pipe (malleable iron) (optional with 103 881) (2)

61 SCREW, 3/8 x 3/4" hex-hd cap (6)

62 WASHER, 3/8" external lock (6)

63 290 126 C1 COVER, power take-off opening (14575)

64 111 082 R1 GASKET, power take-off opening cover (T9-150)

65 317 626 R1 CASE, transmission (T98-1N)

69 WASHER, 5/16" external lock (4)

70 SCREW, 5/16 x 7/8" hex-hd cap (4)

71 317 631 R1 RETAINER, main drive gear bearing (T98-6N)

72 147 920 R1 OIL SEAL, pivot pin (T89B-108)

73 317 633 R1 HOUSING, clutch (T98-1-1/2C)

74 317 634 R1 COVER, hand hole (T9-74)
5/16 x 5/8" fil-hd SCREW (2)
5/16" lock WASHER (2)

75 317 635 R1 SHAFT, throwout (short) (T9-310)

76 317 637 R1 YOKE, throwout (T64J-360D)

77 317 638 R1 SCREW, lock (5573) (2)

78 317 636 R1 SHAFT, throwout (long) (T9A-311M)

79 109 462 FITTING, 1/8" x 90° lubrication (not part of Transmission Assy, 313 739 R91) (2)

115 617 H BOLT, 3/8 x 3/4" (X775) (2)

72 202 R1 BUSHING, mainshaft third speed gear (T98-19)

2 750 061 R1 PRODUCT GRAPHIC, shifting diagram (not part of Transmission Assy, 313 739 R91)

82 082 R1 RING, shift plate retaining (4773)

SCREW, 1/2 x 1-1/4" hex-hd cap (6)
1/2" lock WASHER (6)

26 905 H SLEEVE, speedometer drive gear (T54A-172)

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

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



ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION
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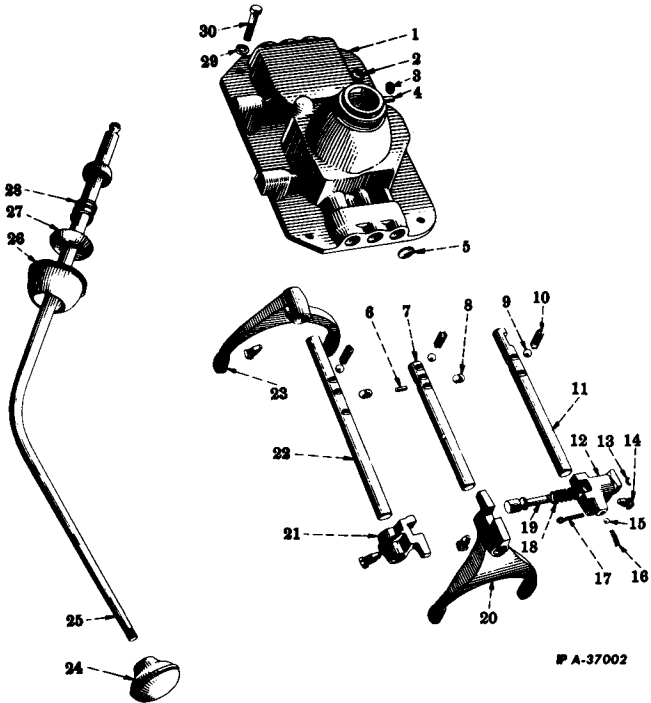
REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION
(Four Speed Synchromesh) (Warner)

TRANSMISSION- Continued
(Four Speed Synchromesh) (Warner)

TRANSMISSION CONTROL HOUSING AND LEVER

TRANSMISSION CONTROL HOUSING AND LEVER - Continued



1	71 877 R1	HOUSING, control lever (T98-148A)
2	82 075 R91	BREATHER (T94-95)
3		NOT USED
4	103 736	PIN, control housing
5	103 892	PLUG, expansion (6)
6	59 412 R1	PIN, shift bar interlock plunger (T97-86)
7	71 879 R1	RAIL, third and direct speed shift (T98-20)
8	27 096 H	PLUNGER, shift bar interlock (T8-86) (2)
9	16 012 R1	BALL, 3/8" shift bar poppet (3)
10	23 074 H	SPRING, shift bar poppet (T8B-42) (3)
11	71 884 R1	RAIL, reverse speed shaft (T98-99)
12	82 090 R1	END, reverse speed shift (T98-37)

13	82 083 R1	WASHER, "C" reverse speed plunger (4747B)
14	23 079 H	SCREW, shift fork set (4418) (4)
15	16 008 R1	BALL, 1/4" reverse speed shift end plunger poppet
16	82 077 R1	SPRING, reverse speed shift end plunger poppet (4750)
17		PIN, 1/8 x 1" cotter
18	62 892 HC	SPRING, reverse speed shift end plunger (T9A-39)
19	82 086 R1	PLUNGER, reverse speed shift end (T98-40)
20	71 881 R1	FORK, third and direct speed shift (T98-23)
21	71 883 R1	END, low and second speed shift (T98-38)
22	71 880 R1	RAIL, low and second speed shift (T98-21)
23	71 882 R1	FORK, low and second speed shift (T98-24)
24	16 780 H	BALL, control lever (C37J-50A)
25	317 632 R1	LEVER, control (AC98-2C)
26	82 078 R1	CAP, control housing (4496L)
27	82 192 R1	WASHER, control lever spring (4497H)
28	27 098 HA	SPRING, control lever (4498B)
29		WASHER, 3/8" lock (6)
30		SCREW, 3/8 x 7/8" hex-hd cap (6)
	83 780 R1	BALL, fulcrum (C82-1/2C)
	14 189 H	PLUG, speedometer opening (not part of transmission ASSEMBLY, 313 739 R91)



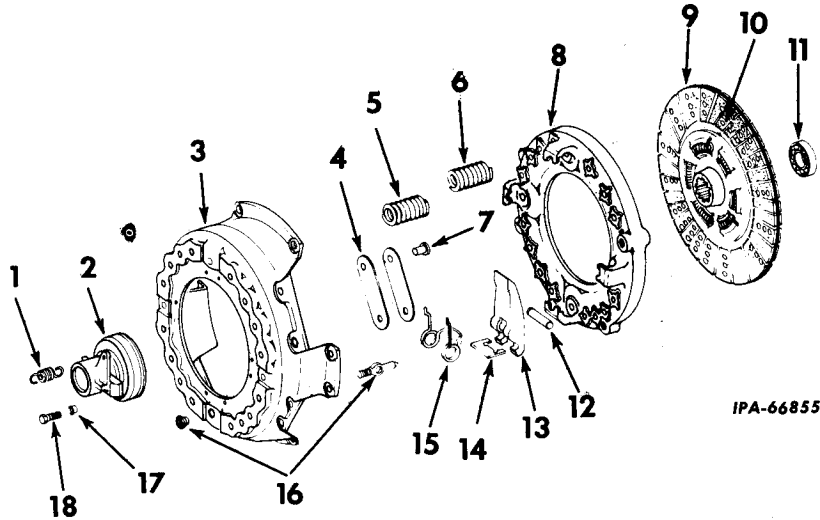
ATTACHMENTS



REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CLUTCH (BORG AND BECK) AND CONTROLS

CLUTCH (BORG AND BECK) AND CONTROLS - Continued



IPA-66855

312 837 R91	ATTACHMENT, clutch and controls (for use with transmission ATTACHMENT, 312 839 R91) and flywheel ATTACHMENT, 312 571 R91) (see NOTES 1 and 3)	313 772 R91	COVER, clutch (1219) (Composed of -
1	57 287 D	1	COVER and STRAP
2	267 814 R91	4	EYEBOLT and NUT
3	317 533 R91	4	FERRULE
4	317 534 R1	4	LEVER
5	317 542 R1	4	PIN
6	317 541 R1	1	PLATE
7	317 535 R1	4	SCREW
8	317 543 R1	4	SPRING
9	313 771 R91	8	SPRING
10	317 546 R91	8	SPRING
11	ST 208 B	4	STRUT
12	317 538 R1	73 092 R2	SCREW, clutch cover mounting (8)
13	317 540 R1		3/8" lock WASHER (8)
14	317 539 R1		
15	317 536 R1		
16	317 537 R91		
17	317 545 R1		
18	317 544 R1		

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



MISCELLANEOUS



REF. NO.	PART NUMBER	DESCRIPTION
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ASSORTED GASKET SETS
(Engine)

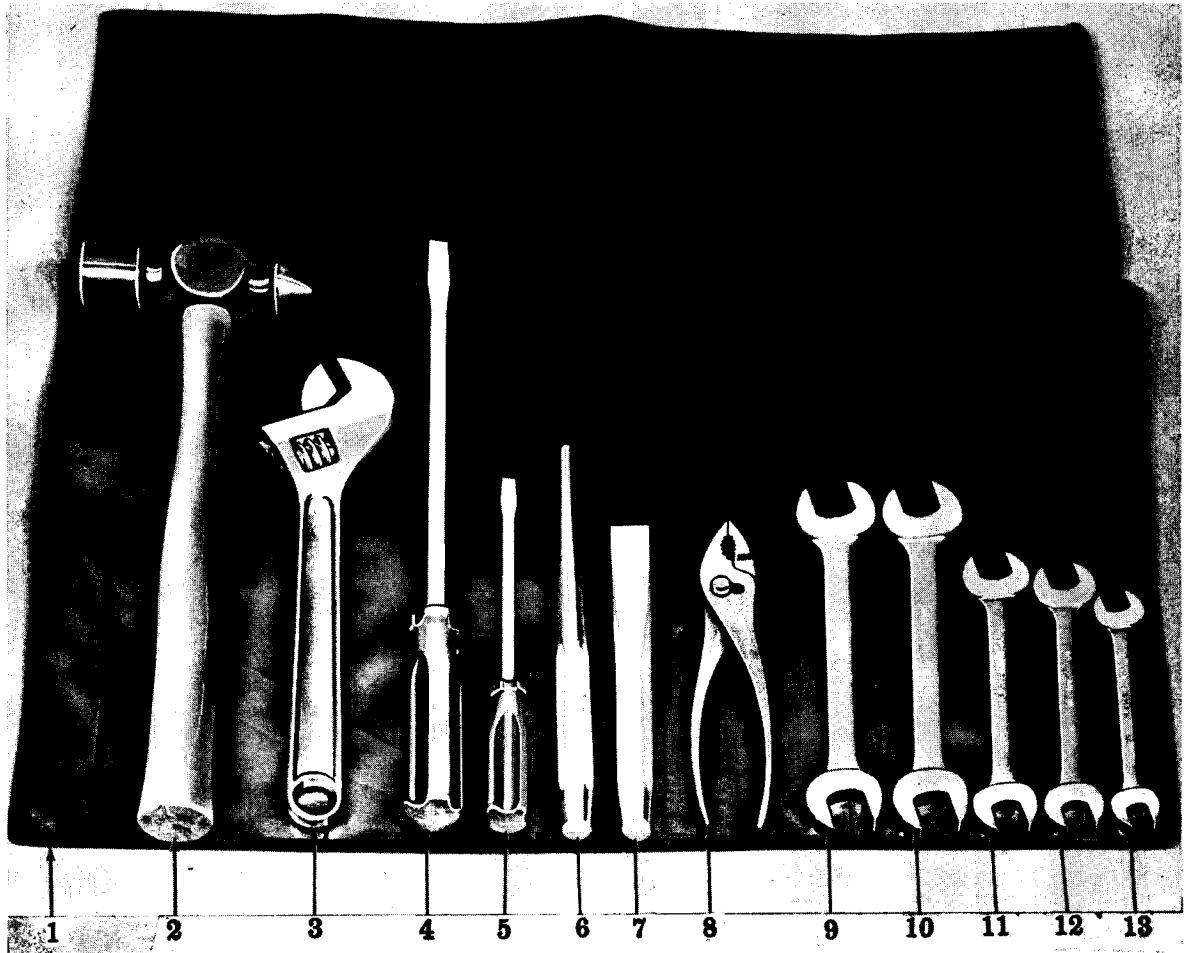
372 770 R93	GASKET SET, valve grinding includes 8 gaskets as follows -
31 336 D	GASKET, carburetor
164 418 R2	GASKET, cylinder head
69 752 R1	GASKET, intake and exhaust manifold
85 868 R1	GASKET, intake to exhaust manifold
369 983 R1	GASKET, valve cover
368 505 R1	GASKET, water outlet
164 420 R1	GROMMET, valve cover
111 024 R1	SEAL, intake valve stem
866 834 R1	DEFLECTOR, intake and exhaust valve stem oil
381 737 R92	GASKET SET, engine (includes 24 gaskets as follows -
369 981 R1	GASKET, breather pipe
378 237 R1	GASKET, crankcase front cover
367 574 R1	GASKET, crankcase front cover
367 570 R1	GASKET, crankcase front plate
369 984 R1	GASKET, crankcase pan
353 936 R2	GASKET, distributor
612 293 C1	GASKET, fuel pump
367 669 R1	GASKET, governor housing
371 238 R1	GASKET, oil filter 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
103 364	PIN, retaining spring washer 1/16 x 1-1/4" cotter PIN
310 665 R1	PLUG, rear bearing cap (2)
352 221 R1	SEAL, oil pump screen "O" ring
384 537 R2	GASKET, oil filter base



ATTACHMENTS



REF. NO.	OWATONNA NUMBER	DESCRIPTION	REF. NO.	OWATONNA NUMBER	DESCRIPTION
TOOLS (Owatonna Tool Company)			TOOLS - Continued (Owatonna Tool Company)		



IPA-43351

		TOOL SET (I. H. Part No. 276 822 R91) (order through regular service parts channels) (see NOTE)	6	TP-24	PUNCH (10" long)
			7	CC-24	CHISEL (8" long)
1	ED-1133	ROLL, tool (leatherette)	8	712-A	PLIERS (slip joint - 8" long)
2	BP-32	HAMMER (2 lb. - ball peen)	9	E-2426	WRENCH, end (3/4 x 13/16")
3	DA-12	WRENCH (adjustable - 12" long)	10	E-2628	WRENCH, end (13/16 x 7/8")
4	SS-123	SCREWDRIVER (3/8" shank)	11	E-2022	WRENCH, end (5/8 x 11/16")
5	SS-83	SCREWDRIVER (1/4" shank)	12	E-1820	WRENCH, end (9/16 x 5/8")
			13	E-1416	WRENCH, end (7/16 x 1/2")

NOTE - Order Individual Tools and Complete Tool Sets From Service Tools, Inc., 1921 South Indiana Avenue, Chicago 16, Illinois.



MISCELLANEOUS



REF. NO.	PART NUMBER	DESCRIPTION
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PRODUCT GRAPHICS

The following identification and instructional Product Graphics are available for the UC-301 Engine.

2 752 477 R1		PRODUCT GRAPHIC, air cleaner (instructions) (*)
2 752 478 R1		PRODUCT GRAPHIC, air cleaner (instructions) (%)
2 751 188 R1		PRODUCT GRAPHIC, air cleaner (instructions) (*)
2 752 141 R1		PRODUCT GRAPHIC, air cleaner (instructions) (%)
2 752 048 R1		PRODUCT GRAPHIC, engine shut down (instructions) (*)
2 752 049 R1		PRODUCT GRAPHIC, engine shut down (instructions) (%)
1 001 071 R2		PRODUCT GRAPHIC, generator warning (*)
2 752 130 R1		PRODUCT GRAPHIC, generator warning (%)
2 752 300 R1		PRODUCT GRAPHIC, "International" (*)
2 752 313 R1		PRODUCT GRAPHIC, "International" (%)
2 752 315 R1		PRODUCT GRAPHIC, "International" (%)
2 752 405 R1		PRODUCT GRAPHIC, "UC-301" (*) (2)
2 752 406 R1		PRODUCT GRAPHIC, "UC-301" (%) (2)
2 751 144 R1		PRODUCT GRAPHIC, lubricating oil filter (instructions) (*)
2 752 272 R1		PRODUCT GRAPHIC, lubricating oil filter (instructions) (%)
2 751 531 R1		PRODUCT GRAPHIC, flo-matic (*)
2 751 532 R1		PRODUCT GRAPHIC, flo-matic (%)
2 751 533 R1		PRODUCT GRAPHIC, flo-matic (*)
2 751 534 R1		PRODUCT GRAPHIC, flo-matic (%)
2 752 149 R1		PRODUCT GRAPHIC, "I. H. C. of Canada" (*)
2 752 150 R1		PRODUCT GRAPHIC, "I. H. C. of Canada" (%)
1 001 181 R3		PRODUCT GRAPHIC, air cleaner instructions (*) (%)

% - For Units Painted I. H. Yellow.
% - For Units Painted Other Than I. H. Yellow.



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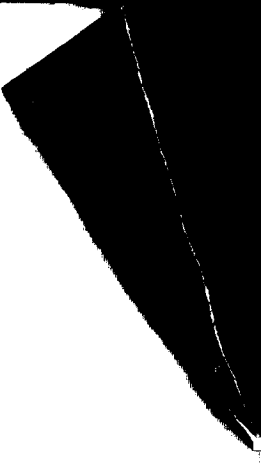
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