

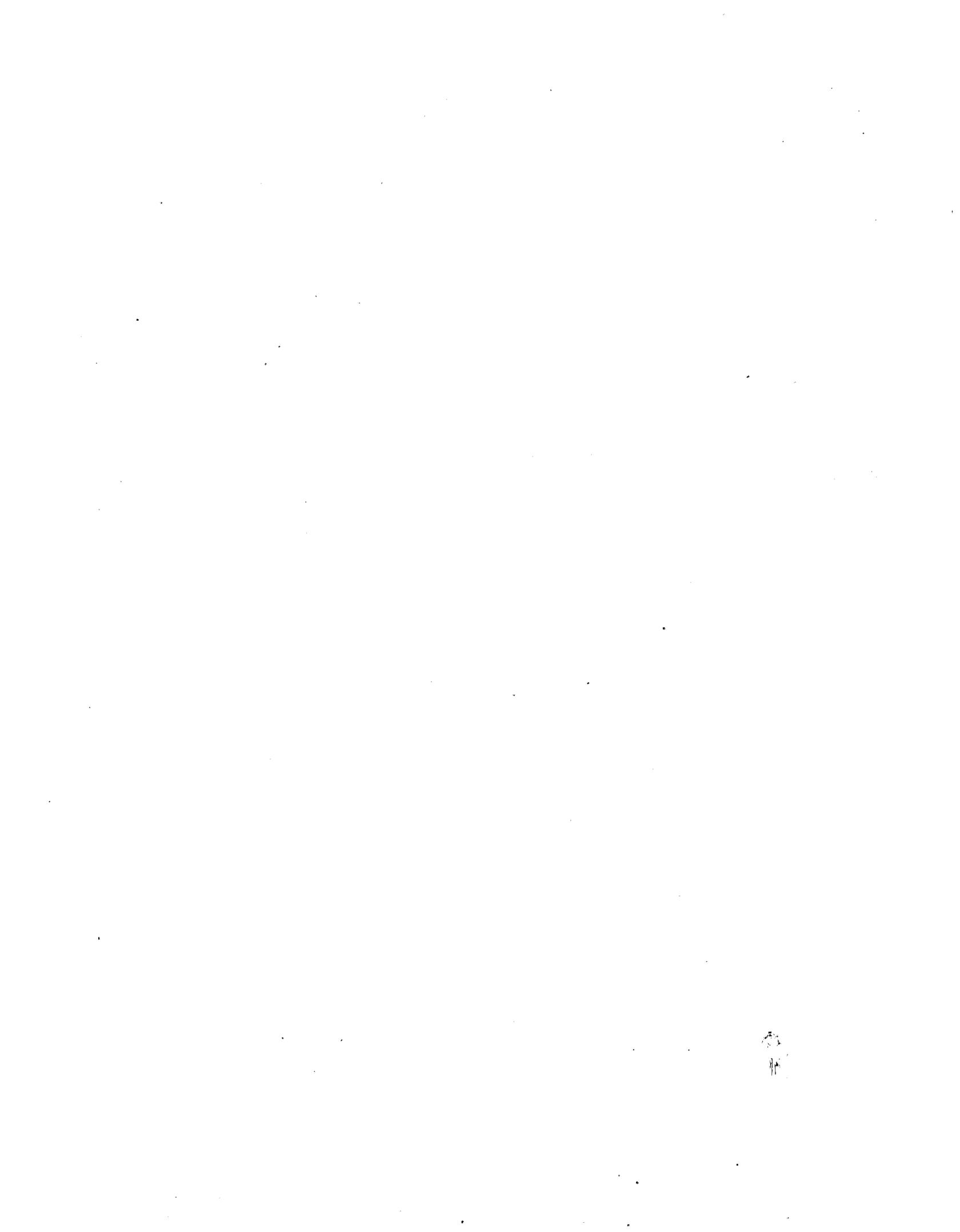
International

PU-57B

(INCLUDES REVISIONS No. 1 and 2)

UB-220, UB-240, UB-264

**ENGINE
AND
ATTACHMENTS**



NOTES

INTRODUCTION

This catalog contains a complete list of service parts for the UB-220, UB-240 and UB-264 engine and attachments. The UB-220 has a 3-9/16 x 3-11/16 inch six-cylinder downdraft carbureted engine, the UB-240 has a 3-9/16 x 4.018 six-cylinder downdraft carbureted engine, and the UB-264 has a 3-11/16 x 4-1/8 inch six-cylinder downdraft 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 PLUGS ASSEMBLY, 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.

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 Course Thread unless otherwise specified. The number of threads per inch will be eliminated.

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

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

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

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

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

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

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

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

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

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.

(9) **SERIAL NUMBERS**

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

Models	Starting Engine Serial Number	Starting Chassis Serial Number
UB-220	BD-220 602411	UB-220 501
UB-240	BD-240 602852	UB-240 501
UB-264	BD-264 602853	UB-264 501

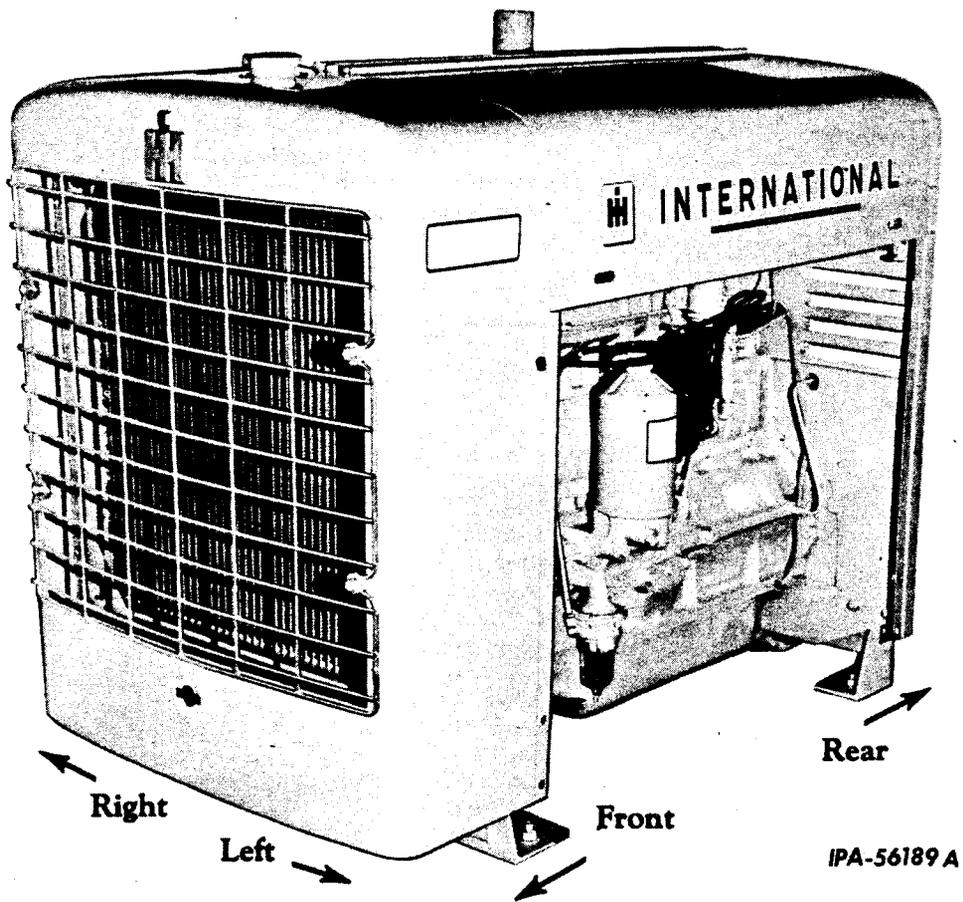
The engine serial numbers for the UB-220, UB-240 and UB-264 are stamped on a pad on the right side of the crankcase behind the water pump housing.

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

LIST OF ABBREVIATIONS

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

<p>adj adjustable</p> <p>al aluminum</p> <p>aly-stl alloy steel</p> <p>amp ampere, amperes</p> <p>anl annealed</p> <p>approx approximately</p> <p>assy assembly</p> <p>att attachment</p> <p>bd-hd binding head</p> <p>b-hd button head</p> <p>brg bearing</p> <p>brs brass</p> <p>brz bronze</p> <p>cd-pltd cadmium plated</p> <p>cd-pltd-stl cadmium plated steel</p> <p>cr-pltd chromium plated</p> <p>cr-pltd-stl chromium plated steel</p> <p>CI cast iron</p> <p>csk countersunk</p> <p>csk-hd countersunk head</p> <p>cl-rec-hd clutch recess head</p> <p>com common</p> <p>cone-pt cone point</p> <p>contd continued</p> <p>cop copper</p> <p>cop-pltd copper plated</p> <p>cot. cotter</p> <p>c-pin cotter pin</p> <p>cres corrosion-resistant-steel (stainless)</p> <p>cr-rec-hd cross recess head</p> <p>cre corrosion resisting</p> <p>crg carriage</p> <p>cup-pt cup point</p> <p>cyl cylinder, cylinders</p> <p>deg degree</p> <p>dia diameter</p> <p>dld drilled</p> <p>dld-f/c-pin drilled for cotter pin</p> <p>dld-f/lkg-wire drilled for locking wire</p> <p>dog-pt dog point</p> <p>ext external</p> <p>f/ for</p> <p>fem female</p> <p>fil-hd fillister head</p> <p>fin-nk fin neck</p> <p>f-csk-hd flat countersunk head</p> <p>f-fil-hd flat fillister head</p> <p>f-hd flat head</p> <p>f-pt flat-point</p> <p>flex flexible</p> <p>ftd fluted</p> <p>ft foot (or feet)</p> <p>ga gauge</p> <p>hd head</p> <p>hdls headless</p> <p>hex. hexagon</p> <p>hex-hd hexagonal-head</p> <p>hex-soc-hd hexagon socket head</p> <p>hp horsepower</p> <p>hv heavy</p> <p>hyd hydraulic</p> <p>ID inside diameter</p> <p>in. inch or inches</p>	<p>int internal</p> <p>lb pound, pounds</p> <p>lentil-hd lentil head</p> <p>LH left hand</p> <p>lkg locking</p> <p>LP Gas Liquefied Petroleum Gas</p> <p>lub lubrication</p> <p>mach machine</p> <p>med medium</p> <p>MI malleable iron</p> <p>NC National Coarse Thread</p> <p>NF National Fine Thread</p> <p>ni nickel</p> <p>ni-pltd-stl nickel plated steel</p> <p>No. number</p> <p>NPT National pipe thread</p> <p>OC outside circumference</p> <p>OD outside diameter</p> <p>O/S oversize</p> <p>ov-hd oval head</p> <p>oz ounce</p> <p>parkerized-stl parkerized steel</p> <p>pkg package</p> <p>pltd plated</p> <p>pt point</p> <p>PTO power take-off</p> <p>rd-end round end</p> <p>rd-hd round head</p> <p>rd-pt round point</p> <p>reg regular</p> <p>RH right hand</p> <p>RPM revolutions per minute</p> <p>SAE Society of Automotive Engineers</p> <p>sf semi-finished</p> <p>slt slotted</p> <p>slt-hd slotted head</p> <p>slt-bd-hd slotted binding head</p> <p>slt-fil-hd slotted fillister head</p> <p>slt-f-hd slotted flat head</p> <p>slt-hex-hd slotted hexagon head</p> <p>slt-pan-hd slotted pan head</p> <p>slt-rd-hd slotted round head</p> <p>slt-truss-hd slotted truss head</p> <p>sq square</p> <p>sq-hd square head</p> <p>sq-nk square neck</p> <p>std standard</p> <p>std-hd standard head</p> <p>stl steel</p> <p>str straight</p> <p>T teeth</p> <p>tap. tapping</p> <p>thd thread</p> <p>U/S undersize</p> <p>unfin unfinished</p> <p>wagon-box-hd wagon box head</p> <p>w/ with</p> <p>w/brz with bronze</p> <p>w/hex. with hexagon</p> <p>w/o without</p> <p>zn zinc</p> <p>zn-ct zinc coated</p> <p>zn-pltd zinc plated</p>
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Left front view of the UB-220, UB-240 and UB-264 engine (gasoline) with radiator and connections, radiator grille, hood and dash, front and rear supports, and attachments.

-5-
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SERVICE ENGINES (SEE NOTE)

SKELETON SERVICE ENGINES

GASOLINE

601 019 C91 (UB-220)

601 020 C91 (UB-240)

601 021 C91 (UB-264)

HIGH ALTITUDE, LIQUEFIED PETROLEUM
GAS, NATURAL GAS

612 219 C91 (UB-220)

612 220 C91 (UB-240)

612 221 C91 (UB-264)

(The above engines consist 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)

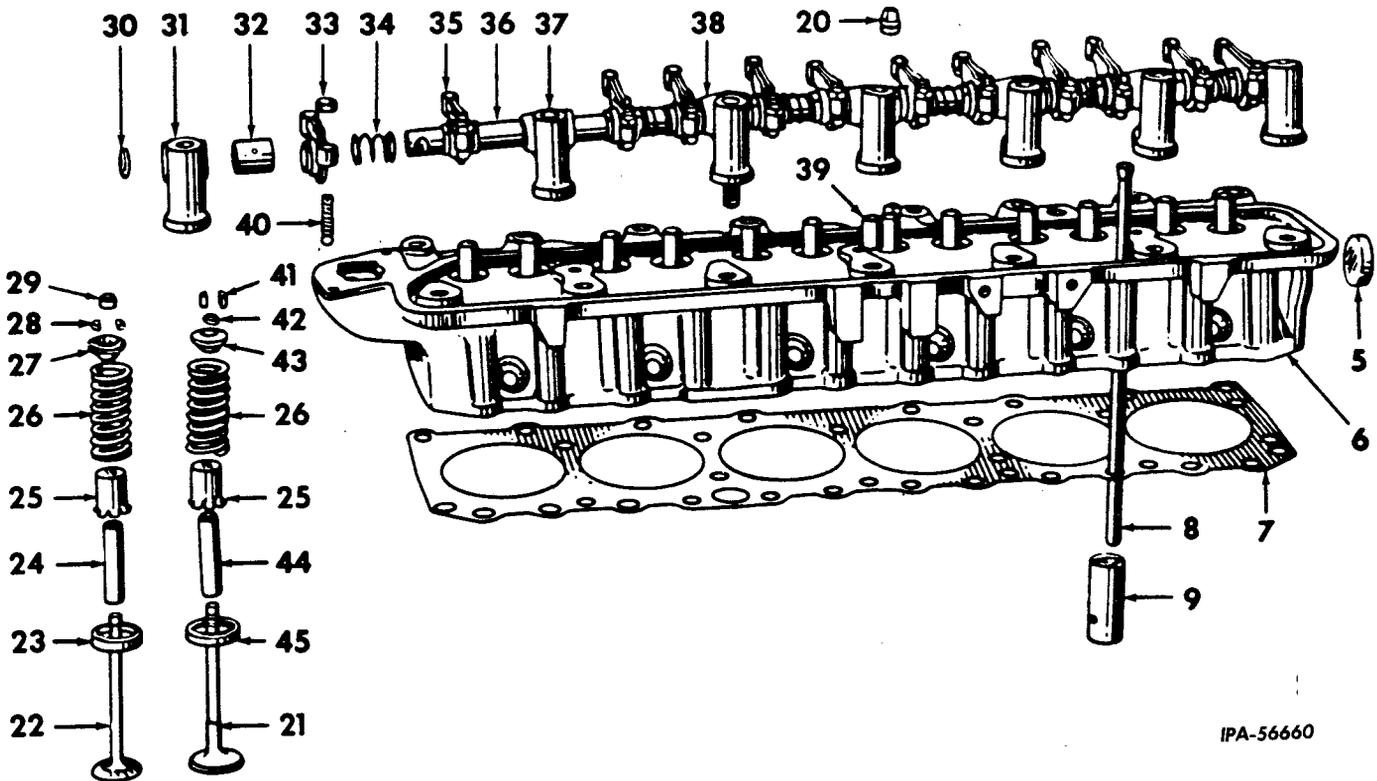
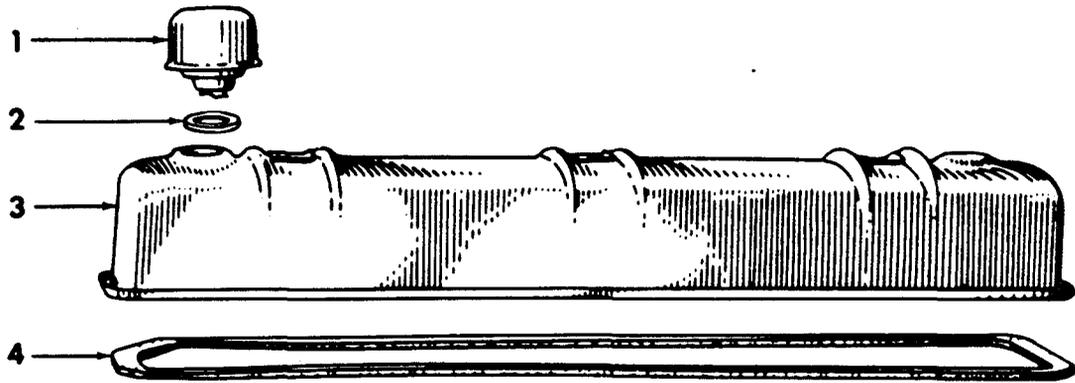
NOTE: When ordering a Service Engine, give complete serial number (including letters and numerals) shown on crankcase of engine to be replaced.

ENGINE

ENGINE

CYLINDER HEAD AND RELATED PARTS

CYLINDER HEAD AND RELATED PARTS - CONTINUED



IPA-56660

REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	84 079 R91	CAP, oil filler (optional with 86 900 R91)
1	86 900 R91	CAP, oil filler (optional with 84 079 R91)
2	87 351 R1	GASKET, oil filler cap
3	268 313 R11	COVER, cylinder head
	168 144 R1	BOLT, cylinder head cover (3)
	164 420 R1	GROMMET, cylinder head cover (3)
	399 Q	WASHER, 5/16" flat (3)
4	369 983 R1	GASKET, cylinder head cover
5	70 128 R1	PLUG, expansion

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REF. NO.	I. H. PART NUMBER	DESCRIPTION
6	184 872 R93	HEAD w/VALVES ASSEMBLY, cylinder (UB-220 Engine) (Composed of -
	6	CUP 84 482 R1
	12	DAMPER 75 941 H
	1	HEAD
		w/GUIDES 184 871 R93
	12	LOCK 41 339 D
	12	LOCK 84 484 R3
	6	CUP 151 167 R3
	6	RETAINER 105 306 R2
	12	SPRING 76 954 R1
	6	VALVE 234 275 R1
	6	VALVE 164 429 R1)

PRINTED IN UNITED STATES OF AMERICA



ENGINE

REF. NO.	I. H. PART NUMBER	DESCRIPTION
CYLINDER HEAD AND RELATED PARTS - CONTINUED		
6	259 203 C91	HEAD w/VALVE ASSEMBLY, cylinder (UB-240 and UB-264 Engines) (will work for 184 874 R93) (Composed of - 6 CUP 84 482 R1 12 DAMPER 75 941 H 1 HEAD w/GUIDES 259 202 C91 12 LOCK 41 339 D 12 LOCK 84 484 R3 6 CUP 151 167 R3 6 RETAINER 105 306 R2 12 SPRING 76 954 R1 6 VALVE 234 276 R1 6 VALVE 164 429 R1 12 DEFLECTOR 866 834 R1)
6	184 871 R93	HEAD w/GUIDES ASSEMBLY, cylinder (UB-220 Engine) (Composed of - 12 GUIDE 237 248 R1 § 1 HEAD 1 PLUG 70 128 R1 1 PLUG 103 868 6 SEAT 126 373 R1)
6	259 202 C91	HEAD w/GUIDES ASSEMBLY, cylinder (UB-240 and UB-264 Engines) (will work for 184 873 R92) (Composed of - 12 GUIDE 237 248 R1 § 1 HEAD 1 PLUG 70 128 R1 1 PLUG 103 868 6 SEAT 126 373 R1)
	118 643 HA	BOLT, cylinder head (long) (7)
	69 722 R1	BOLT, cylinder head (short) (8) (6 for LPG)
	58 516 H	WASHER, cylinder head bolt (15)
7	164 418 R1	GASKET, cylinder head
8	164 436 R91	ROD, valve lifter (12)
9	75 524 R3	TAPPET, valve (12)
20	103 868	PLUG, 1/2" sq-hd pipe
21		VALVE, intake (BD220 engine) (6) below engine serial No. 675 381 # engine serial No. 675 381 up #
21	127 201 R1 234 275 R1	VALVE, intake (BD240, 264 engines) (6) below engine serial No. 678 386 # engine serial No. 678 386 up #
21	129 597 R1 234 276 R1	
22	164 429 R1	VALVE, exhaust (6)
23		(±)SEAT, exhaust valve (Silchrome) (6) standard size 126 373 R1 126 231 R1 .015 oversize 83 488 R2 .030 oversize
23		(±)SEAT, exhaust valve (Eatonite/Stellite) (6) standard size 112 508 R1 126 229 R1 .015 oversize 112 509 R1 .030 oversize
24	237 248 R1	GUIDE, exhaust valve stem (6)
25	75 941 H	DAMPER, valve spring (12)
26	76 954 R1	SPRING, valve (12)
27	105 306 R2	RETAINER, exhaust valve spring (6)
28	84 484 R3	LOCK, exhaust valve spring retainer (12)
29	84 482 R1	CUP, exhaust valve tip (6)
30	109 544 R1	PLUG, 3/4" rocker arm shaft expansion (2)
31	164 422 R1	BRACKET, shaft (front and rear) (2)



ENGINE

REF. NO.	I. H. PART NUMBER	DESCRIPTION
CYLINDER HEAD AND RELATED PARTS - CONTINUED		
32		BUSHING (not furnished separately)
33	133 093 R1	NUT, adjusting screw (12)
34	35 619 H	SPRING, rocker arm shaft (6)
35	164 432 R91	ARM w/SCREW, 16 067 DA, NUT, 133 093 R1 and BUSHING (12)
36	76 953 R3 17 244 R1	SHAFT, rocker arm (2) PIN, 5/16 x 1-1/4" roll (2)
37	164 423 R1	BRACKET, shaft (No. 2, 4 and 6) (3)
38	164 425 R1	BRACKET, shaft (No. 3 and 5) (2)
39	69 500 R1	BUSHING, shaft bracket (3)
40	16 067 DA	SCREW, rocker arm adjusting (12)
41	41 339 D	LOCK, intake valve spring retainer (12)
42		SEAL, valve stem oil (6) 111 024 R1 BD220 engine below serial No. 675 381 # 111 024 R1 BD240, 264 engine below serial No. 678 386 #
		DEFLECTOR, valve stem oil (6) 866 834 R1 BD220 engine serial No. 675 381 up # 866 834 R1 BD240, 264 engine serial No. 678 386 up #
43	151 167 R3	CUP, intake valve spring (6)
44	237 248 R1	GUIDE, intake valve stem (6)
45	131 197 H	SEAT, intake valve (Standard size) (UB-220 engine) (6)
45	131 198 H	SEAT, intake valve (.030 oversize) (UB-220 engine) (6)
45	110 823 R1	SEAT, intake valve (UB-240 and UB-264 engines) (6)
	173 141 R92	GASKET SET, cylinder head
	103 879	PLUG, 3/8" NPT pipe

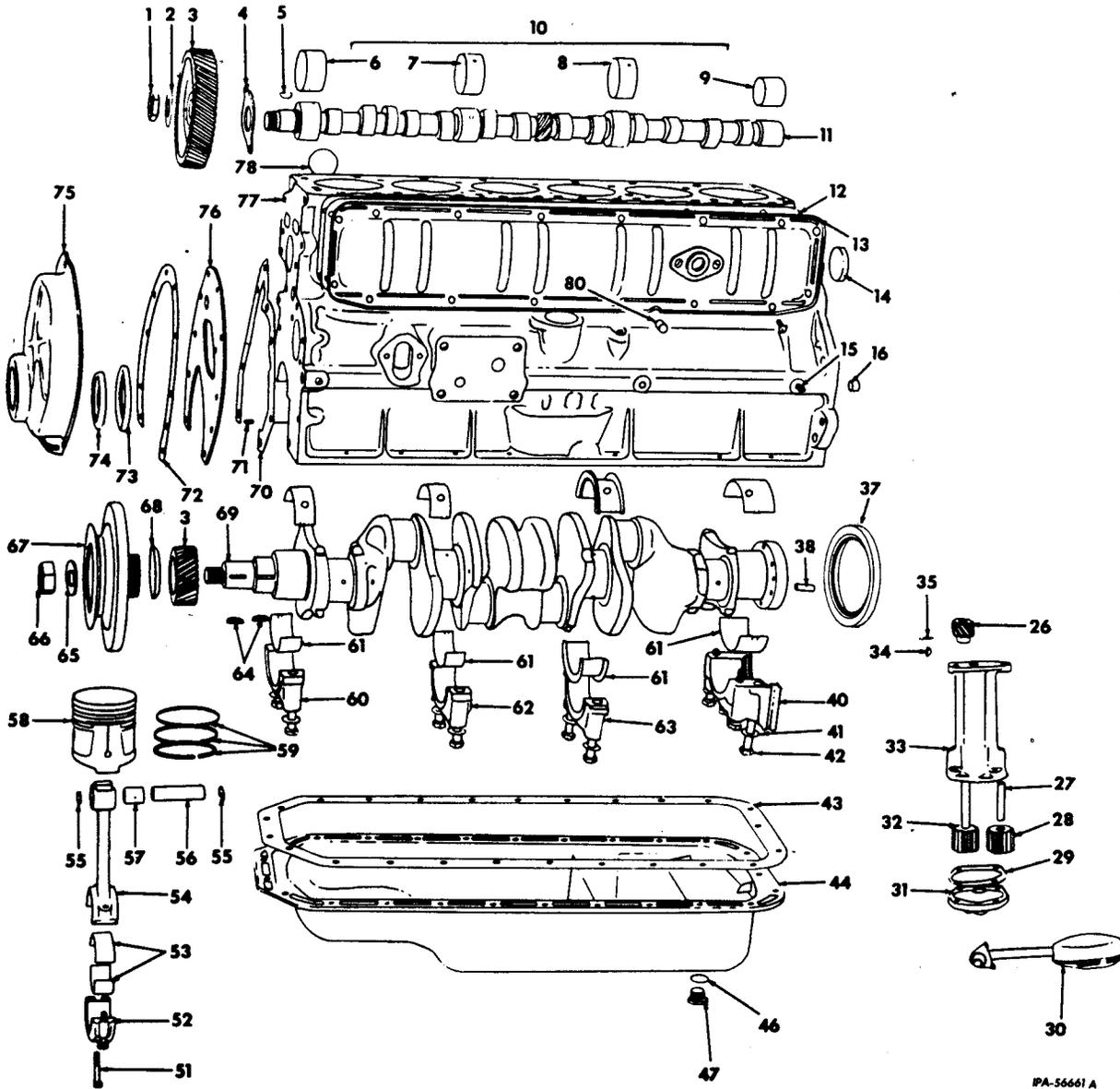
- "Below Engine Serial No. BD220-675 381, BD240, 264-678 386" Used Valve Stem Oil Seal And Engine Serial No. BD220-675 381, BD240, 264-678 386 Up" Used Oil Deflector.

(±) - Used On Early Model BD220 Engines. Current On BD240 And BD264 Engines.

§ - Not Furnished Separately.

CRANKCASE AND RELATED PARTS

CRANKCASE AND RELATED PARTS - CONTINUED



PA-56661 A

REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	16 026 DB	NUT, camshaft gear
2	16 025 D	LOCK, gear nut
3	69 682 R91	GEAR SET, camshaft and crankshaft
4	35 650 HA 70 425 R1	FLANGE, camshaft retainer BOLT, flange (2)
5	127 559	KEY, 1/4 x 3/4" (Woodruff)
6	70 259 R2	BEARING, camshaft, front
7	70 260 R1	BEARING, camshaft, second
8	70 261 R2	BEARING, camshaft, third

REF. NO.	I. H. PART NUMBER	DESCRIPTION
9	70 262 R1	BEARING, camshaft, rear
10	130 476 R93	BEARING SET, camshaft
11	69 681 R3	CAMSHAFT
12	369 982 R1	GASKET, lift rod cover
13	69 734 R11 375 612 R91	COVER, lift rod 1/4 x 1/2" slt-rd-hd SCREW (16)
14	70 129 R1	PLUG, expansion (2)
15	103 865	PLUG, 1/8" sq-hd pipe (optional with 103 877) (2)
15	103 877	PLUG, 1/8" sq-hd pipe (optional with 103 865) (3)

ENGINE

REF. NO.	I.H. PART NUMBER	DESCRIPTION
CRANKCASE AND RELATED PARTS - CONTINUED		
16	444 782	PLUG, 3/8" csk pipe (2)
26	69 608 R1	GEAR, oil pump shaft drive
27	35 647 H	SHAFT, oil pump idler gear
28	227 713 R1	GEAR, oil pump idler
29	69 607 R1	GASKET, oil pump cover
30	60 609 R91	SCREEN, oil pump (use with PUMP, 230 421 R91)
30	359 160 R91	SCREEN, oil pump (use with PUMP, 332 435 R91) 1/8 x 1-1/4" cotter PIN
31	169 679 R11 352 221 R1	COVER w/SEAL, 352 221 R1, oil pump body SEAL, "O" ring 5/16 x 1" hex-hd cap SCREW (4) 5/16" lock WASHER (4)
32	230 409 R91	SHAFT w/GEAR, 227 713 R1, oil pump
33	332 435 R91	OIL PUMP ASSY, w/SCREEN (Composed of - 1 PUMP 230 421 R91 1 PIN 120 123 1 "O" RING 352 221 R1 1 SCREEN 359 160 R91)
33	230 421 R91	OIL PUMP ASSY, less oil pump SCREEN (Composed of - §1 BODY 1 COVER 169 679 R11 1 GASKET 69 607 R1 1 GEAR 69 608 R1 1 KEY 103 905 1 PIN 112 011 1 SEAL 169 240 R1 1 SHAFT 35 647 H 1 SHAFT 230 409 R91)
34	103 905	KEY, 1/8 x 5/8" (Woodruff)
35	112 011	PIN, 1/8 x 7/8" straight
37	70 181 R1	OIL SEAL, crankshaft rear (used with CRANKCASE, 172 670 R93 or 173 199 R93) BD-220 and BD-264 engine, below serial No. 723636, BD-240 engine below serial No. 723074.
37	393 180 R91	OIL SEAL, crankshaft rear (used with CRANKCASE, 316 275 R11 or 316 277 R11) BD-220 and BD-264 engine, serial No. 723636 and up, BD-240 engine serial No. 723074 and up.
38	82 970 R1	PIN, flywheel to crankshaft dowel
40	70 106 R1	CAP, rear bearing (used with CRANKCASE, 172 670 R93 or 173 199 R93) (BD-220 and BD-264 engine, below serial No. 723636, BD-240 engine below serial No. 723074.
40	316 276 R1	CAP, rear bearing (used with CRANKCASE, 316 275 R1 or 316 277 R1) BD-220 and BD-264 engine, serial No. 723636 and up, BD-240 engine serial No. 723174 and up.
	863 756 R1	SEAL, rear bearing cap (2)
41	58 516 H	WASHER, bearing cap bolt (10)
42	70 133 R1	BOLT, bearing cap (10)
43	369 984 R1	GASKET, oil pan
44	332 212 R91	PAN, oil 5/16 x 3/4" hex-hd cap SCREW (25) 5/16" lock WASHER (25)

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ENGINE

REF. NO.	I.H. PART NUMBER	DESCRIPTION
CRANKCASE AND RELATED PARTS - CONTINUED		
46	3 405 H	GASKET, drain plug (Not used with oil level sight gauge ATTACHMENT, 332 467 R91)
47	41 300 HA	PLUG, oil pan drain (Not used with oil level sight gauge ATTACHMENT, 332 467 R91)
51	70 013 R1 348 170 C1	BOLT, rod bearing cap (12) WASHER, connecting rod bolt (12)
52		CAP (Not Furnished Separately) BEARINGS (Connecting rod)
53	141 799 R41	BEARING, connecting rod (standard size) (two halves) (6)
53	141 800 R41	BEARING, connecting rod (.002" undersize) (two halves) (6)
53	155 579 R41	BEARING, connecting rod (.010" undersize) (two halves) (6)
53	141 801 R41	BEARING, connecting rod (.020" undersize) (two halves) (6)
53	141 802 R41	BEARING, connecting rod (.030" undersize) (two halves) (6)
53	141 803 R31	BEARING, connecting rod (.060" undersize) (two halves) (6) BEARING SET (connecting rod)
53	141 804 R94	(Standard size) (consists of six BEARINGS, 141 799 R41)
53	141 805 R94	(.002" undersize) (consists of six BEARINGS, 141 800 R41)
53	155 560 R94	(.010" undersize) (consists of six BEARINGS, 155 579 R41)
53	141 806 R94	(.020" undersize) (consists of six BEARINGS, 141 801 R41)
53	141 807 R94	(.030" undersize) (consists of six BEARINGS, 141 802 R41)
53	141 808 R94	(.060" undersize) (consists of six BEARINGS, 141 803 R31)
54	70 009 R21	ROD, connecting (6)
55	19 517 D	RING, piston pin retainer (12)
56	70 014 R1	PIN, piston (standard size) (6)
56	70 015 R1	PIN, piston (.005" oversize) (6)
56	70 016 R1	PIN, piston (.008" oversize) (6)
57	70 012 R1	BUSHING, piston pin (6)
		PISTONS (standard altitude) (gasoline engines) (consists of PISTON w/PIN, 70 014 R1 and two RINGS, 19 517 D)
UB-220 ENGINES		
58	172 413 R11	(Standard size) (6)
58	172 415 R11	(.010" oversize) (6)
58	172 416 R11	(.020" oversize) (6)
58	172 417 R11	(.030" oversize) (6)
58	172 418 R11	(.040" oversize) (6)
UB-240 ENGINES - below 800380		
58	172 429 R11	(Standard size) (6)
58	172 431 R11	(.010" oversize) (6)
58	172 432 R11	(.020" oversize) (6)
58	172 433 R11	(.030" oversize) (6)
58	172 434 R11	(.040" oversize) (6)
58	172 436 R11	(.060" oversize) (6)

PRINTED IN UNITED STATES OF AMERICA

ENGINE

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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CRANKCASE AND RELATED PARTS - CONTINUED

UB-240 ENGINES - 800380 to 920327

58	684 315 R11	(Standard size) (6)
58	684 317 R11	(.010" oversize) (6)
58	684 318 R11	(.020" oversize) (6)
58	684 319 R11	(.030" oversize) (6)
58	684 320 R11	(.040" oversize) (6)

UB-240 ENGINES - 920328 and up

58	321 290 C11	(Standard size) (6)
58	321 290 C11	(.010" oversize) (6)
58	321 292 C11	(.020" oversize) (6)
58	321 293 C11	(.030" oversize) (6)
59	321 294 C11	(.040" oversize) (6)

UB-264 ENGINES - below 800376

58	172 445 R11	(Standard size) (6)
58	172 447 R11	(.010" oversize) (6)
58	172 448 R11	(.020" oversize) (6)
58	172 449 R11	(.030" oversize) (6)
58	172 450 R11	(.040" oversize) (6)
58	172 452 R11	(.060" oversize) (6)

UB-264 ENGINES - 800376 and up

58	683 368 R11	(Standard size) (6)
58	683 370 R11	(.010" oversize) (6)
58	683 371 R11	(.020" oversize) (6)
58	683 372 R11	(.030" oversize) (6)
58	683 373 R11	(.040" oversize) (6)

PISTON (high altitude for gasoline engines)
(Standard altitude for natural gas engines and
liquefied petroleum gas engines) (Consists
of PISTON w/PIN, 70 014 R1 and two
RINGS, 19 517 D)

UB-220 ENGINES

58	172 421 R11	(Standard size) (6)
58	172 422 R11	(.005" oversize) (6)
58	172 423 R11	(.010" oversize) (6)
58	172 424 R11	(.020" oversize) (6)
58	172 425 R11	(.030" oversize) (6)
58	172 426 R11	(.040" oversize) (6)
58	172 427 R11	(.050" oversize) (6)
58	172 428 R11	(.060" oversize) (6)

UB-240 ENGINES - below 800380

58	172 437 R11	(Standard size) (6)
58	172 438 R11	(.005" oversize) (6)
58	172 439 R11	(.010" oversize) (6)
58	172 440 R11	(.020" oversize) (6)
58	172 441 R11	(.030" oversize) (6)
58	172 442 R11	(.040" oversize) (6)
58	172 443 R11	(.050" oversize) (6)
58	172 444 R11	(.060" oversize) (6)

UB-240 ENGINES - 800380 and up

58	268 768 C11	(Standard size) (6)
58	268 770 C11	(.010" oversize) (6)
58	268 771 C11	(.020" oversize) (6)
58	268 772 C11	(.030" oversize) (6)
58	268 773 C11	(.040" oversize) (6)

ENGINE

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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CRANKCASE AND RELATED PARTS - CONTINUED

UB-264 ENGINES - below 800376

58	172 453 R11	(Standard size) (6)
58	172 454 R11	(.005" oversize) (6)
58	172 455 R11	(.010" oversize) (6)
58	172 456 R11	(.020" oversize) (6)

58	172 457 R11	(.030" oversize) (6)
58	172 458 R11	(.040" oversize) (6)
58	172 459 R11	(.050" oversize) (6)
58	172 460 R11	(.060" oversize) (6)

UB-264 ENGINES - 800376 and up

58	268 782 C11	(Standard size) (6)
58	268 784 C11	(.010" oversize) (6)
58	268 785 C11	(.020" oversize) (6)
58	268 786 C11	(.030" oversize) (6)
58	268 787 C11	(.040" oversize) (6)

59	107 246 H	RING, compression piston (top groove) (standard size and .010" oversize) (UB-220 and UB-240 engines) (6)
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59	107 249 H	RING, compression piston (intermediate groove) (standard size and .010" oversize) (UB-220 and UB-240 engines) (6)
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59	190 849 R91	RING, oil piston (bottom groove) (standard size and .010" oversize) (UB-220 and UB-240 engines) (6)
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59	141 868 R1	RING, compression piston (top groove) (standard size and .010" oversize) (UB-264 engine) (6)
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59	164 426 R1	RING, compression piston (intermediate groove) (standard size and .010" oversize) (UB-264 engine) (6)
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59	190 853 R91	RING, oil piston (bottom groove) (standard size and .010" oversize) (UB-264 engine) (6)
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59	107 248 H	RING, compression piston (top groove) (.020 oversize) (UB-220 and UB-240 Engines) (6)
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59	107 251 H	RING, compression piston (intermediate groove) (.020 oversize) (UB-220 and UB-240 Engines) (6)
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59	190 850 R91	RING, oil piston (bottom groove) (.020 oversize) (UB-220 and UB-240 Engines) (6)
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59	71 416 R1	RING, compression piston (top groove) (.030 oversize) (UB-220 and UB-240 Engines) (6)
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59	71 419 R1	RING, compression piston (intermediate groove) (.030 oversize) (UB-220 and UB-240 Engines) (6)
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59	190 851 R91	RING, oil piston (bottom groove) (.030 over- size) (UB-220 and UB-240 Engines) (6)
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59	141 869 R1	RING, compression piston (top groove) (.020 oversize) (UB-264 Engine) (6)
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59	173 174 R1	RING, compression piston (intermediate groove) (.020 oversize) (UB-264 Engine) (6)
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59	149 098 R91	RING, oil piston (bottom groove) (.020 oversize) (UB-264 Engine) (6)
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59	141 870 R1	RING, compression piston (top groove) (.030 oversize) (UB-264 Engine) (6)
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59	173 175 R1	RING, compression piston (intermediate groove) (.030 oversize) (UB-264 Engine) (6)
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59	149 098 R91	RING, oil piston (bottom groove) (.030 over- size) (UB-264 Engine) (6)
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ENGINE

REF. NO.	I.H. PART NUMBER	DESCRIPTION
CRANKCASE AND RELATED PARTS - CONTINUED		
		RING SET, piston (for one piston) (consists of two COMPRESSION RINGS and one OIL REGULATING RING)
59	173 160 R91	(Standard and .010" oversize) (UB-220 and UB-240 Engines) (6)
59	173 187 R92	(Standard and .010" oversize) (UB-264 Engines) (6)
59	173 161 R91	(.020 oversize) (UB-220 and UB-240 Engines) (6)
59	173 188 R92	(.020 oversize) (UB-264 Engine) (6)
59	173 162 R91	(.030 oversize) (UB-220 and UB-240 Engines) (6)
59	173 189 R92	(.030 oversize) (UB-264 Engine) (6)
59	173 163 R91	(.040 oversize) (UB-220 and UB-240 Engines) (6)
59	173 190 R92	(.040 oversize) (UB-264 Engine) (6)
		RING SET, piston (for six Pistons) (consists of twelve COMPRESSION RINGS and six OIL REGULATING RINGS)
59	173 155 R91	(Standard and .010 oversize) (UB-220 and UB-240 Engines)
59	173 182 R92	(Standard .010 oversize) (UB-264 Engine)
59	173 156 R91	(.020 oversize) (UB-220 and UB-240 Engines)
59	173 183 R92	(.020 oversize) (UB-264 Engine)
59	173 157 R91	(.030 oversize) (UB-220 and UB-240 Engines)
59	173 184 R92	(.030 oversize) (UB-264 Engine)
59	173 158 R91	(.040 oversize) (UB-220 and UB-240 Engines)
59	173 185 R92	(.040 oversize) (UB-264 Engine)
59	173 159 R91	(.060 oversize) (UB-220 and UB-240 Engines)
59	173 186 R92	(.060 oversize) (UB-264 Engine)
60	70 103 R2	CAP, front bearing
		BEARINGS (CRANKSHAFT) (Consists of two halves)
61	233 250 R91	BEARING, crankshaft front (standard size)
61	233 251 R91	BEARING, crankshaft second (standard size)
61	233 252 R91	BEARING, crankshaft third (standard size)
61	233 253 R91	BEARING, crankshaft rear (standard size)
61	233 254 R91	BEARING, crankshaft front (.002 undersize)
61	233 255 R91	BEARING, crankshaft second (.002 undersize)
61	233 256 R91	BEARING, crankshaft third (.002 undersize)
61	233 257 R91	BEARING, crankshaft rear (.002 undersize)
61	233 258 R91	BEARING, crankshaft front (.010 undersize)
61	233 259 R91	BEARING, crankshaft second (.010 undersize)
61	233 260 R91	BEARING, crankshaft third (.010 undersize)
61	233 261 R91	BEARING, crankshaft rear (.010 undersize)
61	233 262 R91	BEARING, crankshaft front (.020 undersize)
61	233 263 R91	BEARING, crankshaft second (.020 undersize)
61	233 264 R91	BEARING, crankshaft third (.020 undersize)
61	233 265 R91	BEARING, crankshaft rear (.020 undersize)
61	233 266 R91	BEARING, crankshaft front (.030 undersize)
61	233 267 R91	BEARING, crankshaft second (.030 undersize)
61	233 268 R91	BEARING, crankshaft third (.030 undersize)
61	233 269 R91	BEARING, crankshaft rear (.030 undersize)
61	233 270 R91	BEARING, crankshaft front (.060 undersize)
61	233 271 R91	BEARING, crankshaft second (.060 undersize)
61	233 272 R91	BEARING, crankshaft third (.060 undersize)
61	233 273 R91	BEARING, crankshaft rear (.060 undersize)



ENGINE

REF. NO.	I.H. PART NUMBER	DESCRIPTION
CRANKCASE AND RELATED PARTS - CONTINUED		
		BEARING SET (CRANKSHAFT)
61	233 274 R91	(Standard size) (Composed of - 1 BEARING 233 250 R91 1 BEARING 233 251 R91 1 BEARING 233 252 R91 1 BEARING 233 253 R91)
61	233 275 R91	.002 undersize (Composed of - 1 BEARING 233 254 R91 1 BEARING 233 255 R91 1 BEARING 233 256 R91 1 BEARING 233 257 R91)
61	233 276 R91	(.010 undersize) (Composed of - 1 BEARING 233 258 R91 1 BEARING 233 259 R91 1 BEARING 233 260 R91 1 BEARING 233 261 R91)
61	233 277 R91	(.020 undersize) (Composed of - 1 BEARING 233 262 R91 1 BEARING 233 263 R91 1 BEARING 233 264 R91 1 BEARING 233 265 R91)
61	233 278 R91	(.030 undersize) (Composed of - 1 BEARING 233 266 R91 1 BEARING 233 267 R91 1 BEARING 233 268 R91 1 BEARING 233 269 R91)
61	233 279 R91	(.060 undersize) (Composed of - 1 BEARING 233 270 R91 1 BEARING 233 271 R91 1 BEARING 233 272 R91 1 BEARING 233 273 R91)
62	70 104 R2	CAP, second bearing
63	70 105 R2	CAP, third bearing
64	103 462	KEY, 3/16 x 1" (Woodruff) (2)
65	70 109 R1	WASHER, crankshaft nut
66		NUT, 1" NF hex. jam (cd/zn pltd)
67	273 600 R1	PULLEY, crankshaft (UB-220 Engine)
67	273 601 R91	PULLEY w/DAMPER, crankshaft (UB-240 and UB-264 Engines)
68	71 763 R2	SLINGER, crankshaft oil
CRANKSHAFT AND BEARING PACKAGES (Standard size)		
69	382 710 R91	(UB-220 Engine) (Composed of - 1 BEARING SET 141 804 R94 1 BEARING SET 233 274 R91 § 1 CRANKSHAFT 1 DOWEL PIN 82 970 R1)
69	382 712 R91	(UB-240 Engine) (Composed of - 1 BEARING SET 141 804 R94 1 BEARING SET 233 274 R91 § 1 CRANKSHAFT 1 DOWEL PIN 82 970 R1)



ENGINE



ENGINE

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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REF. NO.	I. H. PART NUMBER	DESCRIPTION
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CRANKCASE AND RELATED PARTS - CONTINUED

CRANKCASE AND RELATED PARTS - CONTINUED

CRANKSHAFT AND BEARING PACKAGES
- Continued
(Standard Size)

69	382 711 R91	(UB-264 Engine) (Composed of - 1 BEARING SET 141 804 R94 1 BEARING SET 233 274 R91 § 1 CRANKSHAFT 1 DOWEL PIN 82 970 R1)
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CRANKSHAFT AND BEARING PACKAGES
(Undersize) (Consists of Crankshaft,
Connecting Rod Bearing Set and Crankshaft
Bearing Set)

69	382 714 R91	(UB-220 Engine)
69	382 718 R91	(UB-240 Engine)
69	382 716 R91	(UB-264 Engine)
70	69 762 R2	GASKET, cover plate to crankcase
71	444 574	PLUG, 1/4" sq-hd crankcase drain pipe
72	69 764 R1	GASKET, cover to plate
73	71 764 R1	RETAINER, oil seal
74	71 762 R1	OIL SEAL, crankshaft pulley
75	69 765 R11	COVER w/OIL SEAL, 71 762 R1 and RETAINER, 71 764 R1, crankcase front 5/16NF hex. NUT (3) 3/8 x 3/4" hex-hd cap SCREW (3) 5/16NF x 1/2" hex-hd cap SCREW (3)
76	69 744 R1	PLATE, crankcase front cover 3/8 x 3/4" hex-hd cap SCREW (2) 3/8" lock WASHER (2)

77	316 275 R11	CRANKCASE ASSEMBLY (less main BEARINGS) (UB-220 and UB-240 Engines) (will work for 172 670 R93) (Composed of - 1 ADAPTER 171 591 R1 § 4 BEARING 10 BOLT 70 133 R1 1 CAP 70 103 R2 1 CAP 70 104 R2 1 CAP 70 105 R2 1 CAP 316 276 R1 § 1 CRANKCASE 6 PLUG 70 128 R1 2 PLUG 70 129 R1 1 PLUG 98 375 H 3 PLUG 445 684 2 PLUG 444 782 1 PLUG 444 852 10 WASHER 58 516 H)
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77	316 277 R11	CRANKCASE ASSEMBLY (less main bearings) (UB-264 Engine) (will work for 173 199 R92) (Composed of - 1 ADAPTER 171 591 R1 § 4 BEARING 10 BOLT 70 133 R1 1 CAP 70 103 R2 1 CAP 70 104 R2 1 CAP 70 105 R2 1 CAP 316 276 R1 § 1 CRANKCASE 6 PLUG 70 128 R1 2 PLUG 70 129 R1 1 PLUG 98 375 H 3 PLUG 445 684 2 PLUG 444 782 2 PLUG 444 782 10 WASHER 58 516 H)
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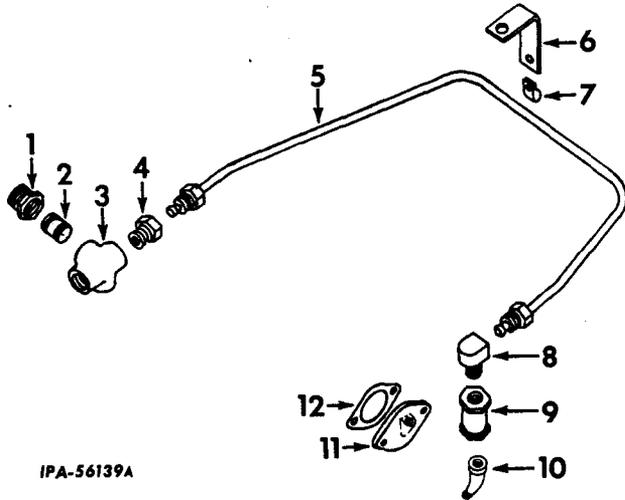
78	70 128 R1	PLUG, 1-5/8" expansion (6)
80	71 327 R1	BUSHING, accelerator cross shaft (2)
266	199 R1	COVER, fuel pump opening (for natural gas and liquefied petroleum gas burning engines) and liquefied petroleum gas burning engines) ATTACHMENT, 332 467 R91) 5/16 x 1" hex-hd cap SCREW (UB-220 and UB-240) (2) and UB-240) (2) only) (2) 5/16" lock WASHER (2) 5/16" lock WASHER (2)
98	375 H	PLUG, oil gauge hole in crankcase
305	556 R1	POINTER, timing
169	134 R11	SUPPORT, engine front 3/8 x 2" hex-hd cap SCREW (2) 3/8 x 1-1/4" hex-hd cap SCREW (2) 3/8" lock WASHER (4)
70	130 R1	TUBE, oil level gauge
444	852	PLUG, 1/8" hex-socket drain (optional with 444 853 or 444 854)
444	853	PLUG, 1/8" hex-socket drain (optional with 444 852 or 444 854)
444	854	PLUG, 1/8" hex-socket drain (optional with 444 852 or 444 853)

§ - Not Furnished Separately



ENGINE

CRANKCASE VENTILATION

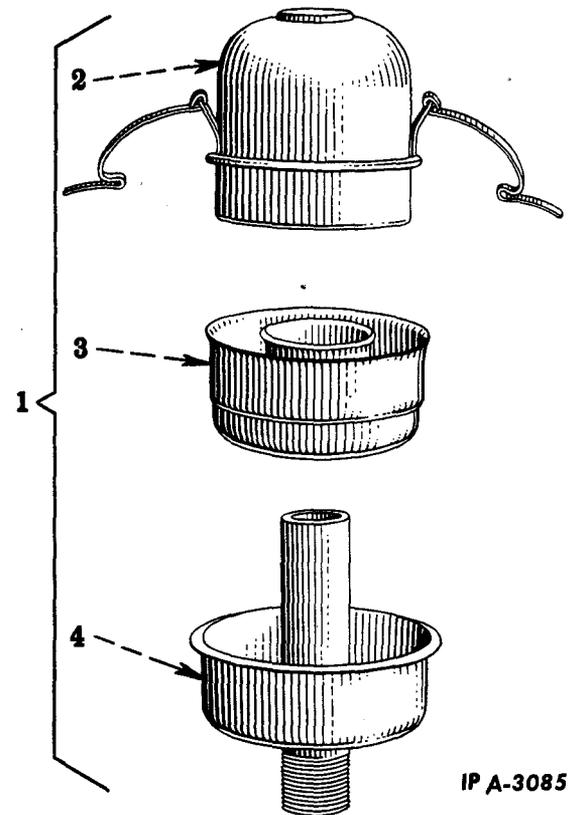


REF. NO.	I.H. PART NUMBER	DESCRIPTION
1	144 051	BUSHING, brass metering vent pipe reducing
2	105 405	NIPPLE, metering vent pipe
3	305 502 R1 444 574	TEE, metering vent pipe PLUG, 1/4"NPT sq-hd pipe (2)
4	137 407	CONNECTOR, 1/4"NPT x 3/8" tube metering vent pipe
5	305 598 R11	PIPE w/two NUT, metering vent
6	93 163 R1	CLIP, extension (used with VALVE, 137 600 HA)
6	332 425 R1	CLIP, extension (used with VALVE, 338 338 R92)
7	137 192	CLIP, No. 6 closed 1/4NF jam NUT 1/4NF x 1/2" hex-hd cap SCREW 1/4" lock WASHER
8	137 423	ELBOW, inverted flared tube (1/4"NPT x 3/8" - 90°)
9	338 338 R92	VALVE, metering (together with CLIP, 332 425 R1 will work for VALVE, 137 600 HA)
10	119 113	ELBOW, 1/4" - 45° street
11	601 708 C1 16 561 R1 375 612 R91	FLANGE, metering valve (will work for FLANGE, 92 240 R11 or 92 241 R1) 1/4 x 3/4" hex-hd cap SCREW (2) WASHER (2) 1/4 x 1/2" slit-rd-hd mach SCREW (2) (used w/FLANGE, 92 240 R11 or 92 241 R1)
12	369 981 R1 84 368 HA	GASKET, ventilator flange BREATHER ASSEMBLY (For components see list of parts under details of "Breather") (Donaldson)



ENGINE

BREATHER (Donaldson)

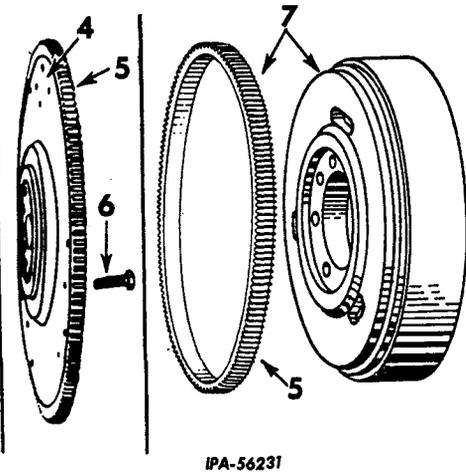
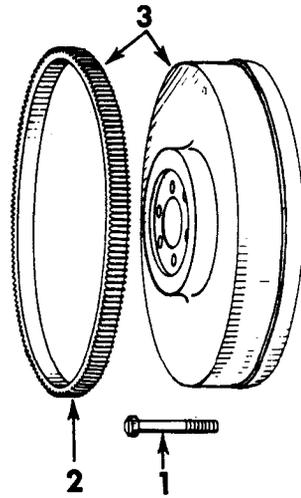


REF. NO.	I.H. PART NUMBER	DESCRIPTION
1	84 368 HA	BREATHER, assembly (C-279)
2	131 491 H	BODY, breather (P-5057)
3	131 499 HX	CUP, oil breather (P-5156)
4	131 502 HX	BASE, breather (P-5159)

ENGINE



FLYWHEEL AND RING GEAR



ENGINE

FLYWHEEL AND RING GEAR - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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(X) - KEY TO UNITS -

A	305 575 R91	GROUP, flywheel (Industrial) (for use with S.A.E. No. 4 flywheel housing) (for use with 8" single plate overcenter clutch-for Regular and In-Line drive) (UB-220 Engine) (see NOTES 1 and 3)
B	305 576 R91	GROUP, flywheel (Industrial) (for use with S.A.E. No. 4 flywheel housing) (for use with 10" single plate overcenter clutch) (Heavy duty for UB-220, Regular and In-Line drive for UB-240 and UB-264 Engines) (see NOTES 1 and 3)
C	305 599 R91	GROUP, flywheel (Motor Truck) (for use with 11" spring loaded clutch) (see NOTES 1 and 3)
D	305 600 R91	GROUP, flywheel (Motor Truck) (for UB-240 and UB-264 Engines) (for use with 12" spring loaded clutch) (see NOTES 1 and 3)
E	305 189 R91	GROUP, flywheel (Industrial) (for heavy duty use with S.A.E. No. 3 flywheel housing) (for UB-220 Engines with 10" single plate over-center drive ring clutch) (see NOTES 1 and 3)
F	305 190 R91	GROUP, flywheel (Industrial) (for heavy use with S.A.E. No. 3 flywheel housing) (for UB-220 and UB-264 Engines) (for use with 11-1/2" single plate overcenter clutch) (see NOTES 1 and 3)

(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.

1	9 409 049	BOLT, 7/16NF x 1-1/2" type AA hex. lock (6 for Unit A) (not used with direct connected stub-shaft attachment)
1	19 466 R1	BOLT, 7/16NF x 1-3/4" type AA hex. lock (6 for Units B, E and F) (not used with direct connected stub-shaft or flexible coupling attachments)
2	372 568 R1	GEAR, flywheel ring (159 T) (Units E and F)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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3	372 567 R91	FLYWHEEL w/ring GEAR, 372 568 R1 (Unit E)
3	372 569 R91	FLYWHEEL w/ring GEAR, 372 568 R1 (Unit F)
4	69 496 R11	FLYWHEEL w/ring GEAR, 95 691 H and BALL, 16 008 R1 (Unit C)
4	156 249 R11	FLYWHEEL w/ring GEAR, 153 586 R1 and BALL, 16 008 R1 (Unit D)
5	95 691 H	GEAR, flywheel ring (143 T) (Units A, B and C)
5	153 586 R1	GEAR, flywheel ring (159 T) (Unit D)
6	70 426 R1	BOLT, 7/16NF x 1-1/4" hex-lock (6 for Units C and D)
7	305 601 R11	FLYWHEEL w/ring GEAR, 95 691 H (Unit A)
7	305 602 R11	FLYWHEEL w/ring GEAR, 95 691 H (Unit B)
	16 008 R1	BALL, timing indicator (optional with 71 562 R1) (Units C and D)
	71 562 R1	BALL, timing indicator (optional with 16 008 R1) (Units C and D)

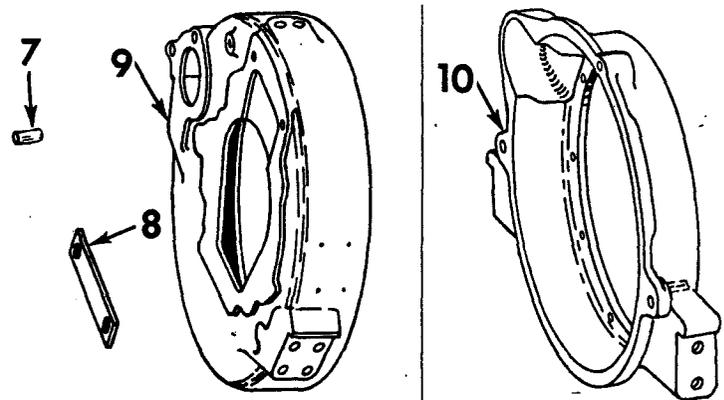
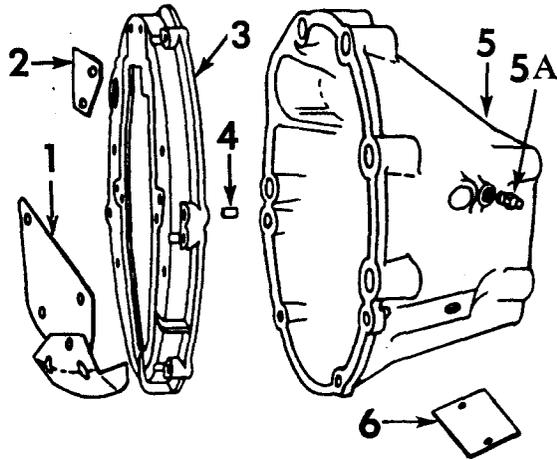
NOTE 1 - Factory Application - Order On Machine Order Form.

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



ENGINE

FLYWHEEL HOUSING AND RELATED PARTS



IPA-56583A

REF. NO.	I. H. PART NUMBER	DESCRIPTION
(X) - KEY TO UNITS -		
A	305 577 R91	GROUP, flywheel housing (Industrial) (S. A. E. No. 4) (for use w/8" and 10" single plate overcenter clutch) (see NOTES 1 and 3)
B	305 603 R91	GROUP, flywheel housing (Motor Truck) (for use with 11" spring loaded clutch) (see NOTES 1 and 3)
C	305 604 R91	GROUP, flywheel housing (Motor Truck) (for UB-240 and UB-264 Engines w/12" spring loaded clutch) (see NOTES 1 and 3)
D	308 237 R91	GROUP, flywheel housing (Industrial) (S. A. E. No. 3) (for UB-220 Engines w/10" single plate overcenter drive ring clutch) (for UB-240 and UB-264 Engines w/11-1/2" single plate overcenter drive ring clutch) (see NOTES 1 and 3)
(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
1	153 309 R1	COVER, adapter housing (Units A, B and C) 1/4 x 1/2" hex-hd cap SCREW (4) 1/4" lock WASHER (4)
2	98 051 R1	COVER, timing indicator (Units A, B and C) 1/4 x 1/2" rd-hd mach SCREW 1/4" lock WASHER
3	164 694 R1	HOUSING, adapter (Units A and B)
3	153 390 R1 205 079 R1	HOUSING, adapter (Unit C) SCREW, 7/16 x 1-1/8" hex-hd cap (6 for Units A, B and C) 7/16" external tooth lock WASHER (6 for Units A, B and C)
4	133 452 R1	SLEEVE, dowel (2 for Units A, B and C)
5	871 972 R1	HOUSING, transmission clutch (together with COVER, 871 976 R1 will work for HOUSING, 305 605 R1 and HOUSING, 164 695 R1) (Unit B)



ENGINE

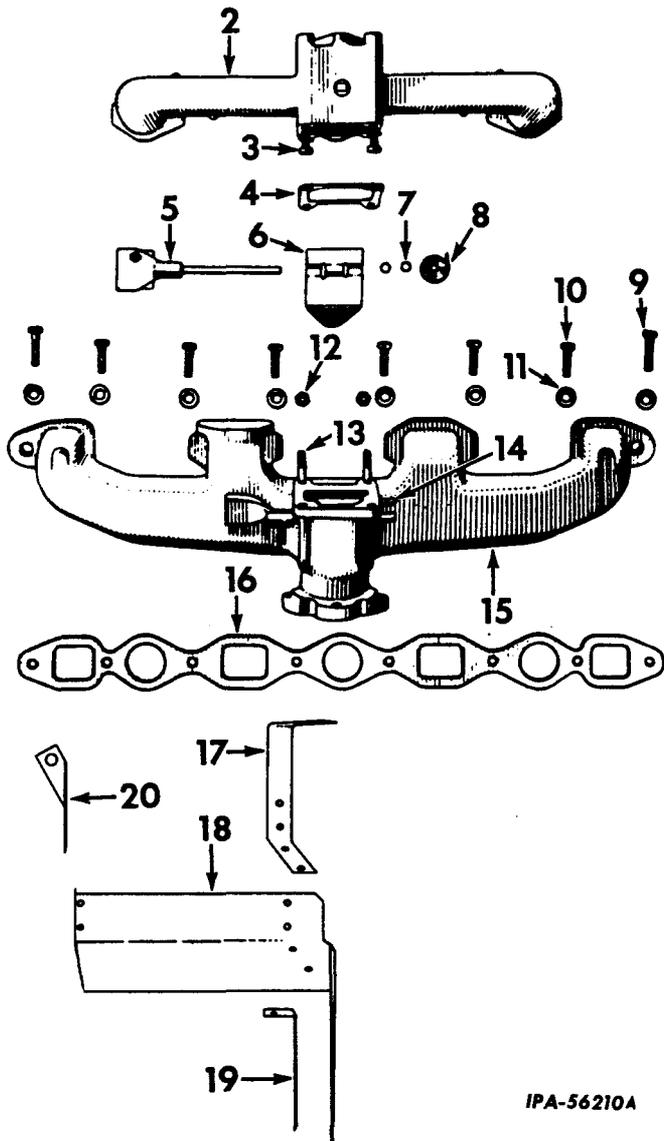
FLYWHEEL HOUSING AND RELATED PARTS - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
5	155 141 R1 65 449 R1 168 392 R1	HOUSING, transmission clutch (Unit C) 1/2 x 1-1/2" BOLT (Flywheel housing to cylinder block) (2 for Units A, B and C) 1/2 x 2-1/2" special BOLT (2 for Units A, B and C) 1/4 x 1-1/2" hex-hd cap SCREW (4 for Units A, B and C) 1/2" lock WASHER (4 for Units A, B and C) 1/2" lock WASHER (4 for Units A, B and C)
5A	138 322 H	FITTING, lubrication (2)
6	871 976 R1	COVER, flywheel housing (Unit B)
6	161 617 R2	COVER, transmission clutch housing (Unit C) 5/16 x 1/2" hex-hd cap SCREW (2 for Unit B) 5/16" lock WASHER (2 for Unit B) 1/4" x 1/2" hex-hd cap SCREW (2 for Unit C) 1/4" lock WASHER (2 for Unit C)
7	1 769 Y	PIN, dowel (standard size) (housing to crankcase) (2)
7	54 808 H	PIN, dowel (.030 oversize) (housing to crankcase) (2)
8	367 225 R1	SEAL, flywheel housing dust (Unit D) 5/16 x 5/8" hex-hd cap SCREW (2) 11/32" flat WASHER (2)
9	308 238 R1 70 427 R1	HOUSING, flywheel (Unit D) SCREW, 7/16 x 1-1/4" hex-hd cap (6) 7/16" lock WASHER (6)
10	305 607 R1 169 071 R1	HOUSING, flywheel (Unit A) PLUG, cap (in rear of bell housing) (2 for Unit B)
		SCREW, No. 6 rd-hd blunt metal drive (for number plate) (4)
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

ENGINE



INTAKE AND EXHAUST MANIFOLD



REF. NO.	I. H. PART NUMBER	DESCRIPTION
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(X) - KEY TO UNITS

- A - Service parts for INTAKE MANIFOLD (for use with Velocity Governor)
- B - Service parts for INTAKE MANIFOLD (for use with Mechanical Governor)
- C - Service parts for EXHAUST MANIFOLD (for Gasoline and Gasoline High Altitude Engines)
- D - Service parts for EXHAUST MANIFOLD (for Natural Gas and Liquefied Petroleum Gas Engines)

(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.

ENGINE



REF. NO.	I. H. PART NUMBER	DESCRIPTION
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INTAKE AND EXHAUST MANIFOLD - CONTINUED

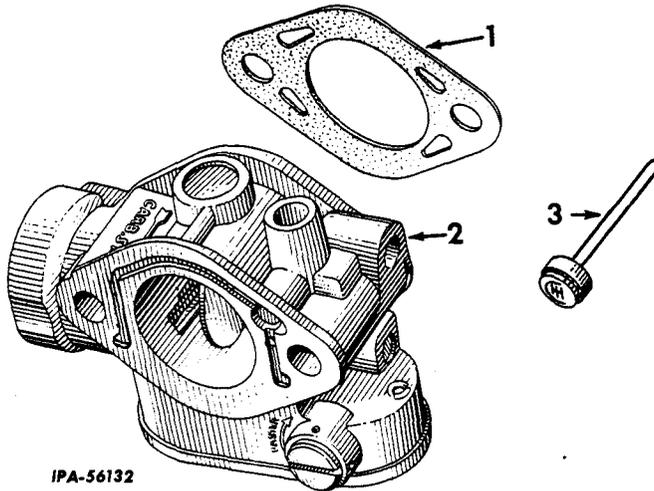
2	305 617 R92	MANIFOLD w/STUD, 256 336 R1 and STUD, 260 871 R1, intake (Unit A)
2	305 618 R92	MANIFOLD w/two STUD, 12 215 D, intake (will work for 236 477 R21) (Unit B)
	133 757 R1	3/8" NUT (2 for Units A and B)
	130 304 H	SCREW, 3/8 x 1-1/4" cd-pltd hex-hd cap (6 for Units A and B)
	127 507 H	SCREW, 3/8 x 1" hex-hd cap (2 for Units A and B)
	127 507 H	WASHER, 3/8" special (6 for Units A and B)
	229 292 R1	WASHER, tab lock (7 for Units A and B)
3		Follows Reference No. 15
4	69 751 R1	GASKET, intake to exhaust manifold (Unit C)
5	82 959 R11	SHAFT w/WEIGHT, manifold heat control (Unit C).
6	70 212 R1	VALVE, manifold heat control (Unit C)
7	69 443 R1	BUSHING, manifold heat control valve (2 for Unit C)
8	82 958 R2	SPRING, thermostat hot spot valve (Unit C)
9		Follows Reference No. 2
10		Follows Reference No. 2
11	127 507 H	Follows Reference Nos. 2 and 15
12		Follows Reference No. 2
13	1 872 YA	STUD, exhaust manifold (2 for Unit C)
14	141 159	PIN, 3/16 x 1" dowel (Unit C)
15	220 326 R11	MANIFOLD ASSEMBLY, exhaust (Unit C) (Composed of -
	2	BUSHING 69 443 R1
	§ 1	EXHAUST MANIFOLD
	1	PIN 141 159
	1	SHAFT 82 959 R11
	1	SPRING 82 958 R2
	2	STUD 1 872 YA
	1	VALVE 70 212 R1
	127 507 H	WASHER, 3/8" special (2 for Unit C)
		3/8 x 1-1/2" hex-hd cap SCREW (2 for Unit C)
15	220 364 R1	MANIFOLD, exhaust (Unit D)
		3/8 x 1-1/2" hex-hd cap SCREW
	127 507 H	WASHER, 3/8" special
16	69 752 R1	GASKET, intake manifold to cylinder head (Units A and B)
17	305 724 R1	SUPPORT, exhaust manifold heat shield (front) (Units C and D)
		No. 8 NUT (4)
		No. 8 x 1/2" rd-hd mach SCREW (4)
		No. 8 lock WASHER (4)
18	305 619 R1	SHIELD, exhaust manifold heat (Units C and D)
		No. 6 mach screw NUT (2)
		No. 6 x 3/8" rd-hd SCREW (2)
		No. 6 lock WASHER (2)
19	305 623 R1	STIFFENER, exhaust manifold heat shield (Units C and D)
		No. 6 mach screw NUT (2)
		No. 6 x 3/8" slt-rd-hd SCREW (2)
		No. 6 lock WASHER (2)
20	305 624 R1	SUPPORT, exhaust manifold heat shield (rear) (Units C and D)
		No. 6 mach screw NUT (2)
		No. 6 x 3/8" slt-rd-hd SCREW (2)
		No. 6 lock WASHER (2)
	256 336 R1	STUD, 3/8 x 3-5/16" intake manifold (Unit A)
	260 871 R1	STUD, manifold (Unit A)
	12 215 D	STUD, 3/8 x 1-3/8" intake manifold (2 for Unit B)

§ - Not Furnished Separately.



ENGINE

VELOCITY GOVERNOR (Hoof)



REF. NO.	I. H. PART NUMBER	DESCRIPTION
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(X) - KEY TO UNITS

- A - Service parts for velocity GOVERNOR (1800 RPM)
(for UB-220 Gasoline and Gasoline High Altitude Engines)
- B - Service parts for velocity GOVERNOR (1800 RPM)
(for UB-220 Natural Gas and Liquefied Petroleum Gas Engines and for UB-240 and UB-264 Gasoline and Gasoline High Altitude Engines)
- C - Service parts velocity GOVERNOR (1800 RPM)
(for UB-240 and UB-264 Natural Gas and Liquefied Petroleum Gas Engines)
- D - Service parts for velocity GOVERNOR (2200-2400 RPM)
(for UB-220 Natural Gas and Liquefied Petroleum Gas Engines and for UB-240 and UB-264 Gasoline, Gasoline High Altitude, Natural Gas and Liquefied Petroleum Gas Engines)
- E - Service parts for velocity GOVERNOR (2200-2400 RPM)
(for UB-220 Gasoline and Gasoline High Altitude Engines)
- F - Service parts for velocity GOVERNOR (2600 RPM)
(for UB-220 Natural Gas and Liquefied Petroleum Gas Engines and for UB-240 and UB-264 Gasoline, Gasoline High Altitude, Natural Gas and Liquefied Petroleum Gas Engines)
- G - Service parts for velocity GOVERNOR (2600 RPM)
(for UB-220 Gasoline and Gasoline High Altitude Engines)
- H - Service parts for velocity GOVERNOR (2800 RPM)
(for UB-220, UB-240 and UB-264 Natural Gas and Liquefied Petroleum Gas Engines)
- I - Service parts for velocity GOVERNOR (2800 RPM)
(for UB-220 Gasoline and Gasoline High Altitude Engines)
- J - Service parts for velocity GOVERNOR (2800 RPM)
(for UB-240 and UB-264 Gasoline and Gasoline High Altitude Engines)



ENGINE

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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VELOCITY GOVERNOR - CONTINUED (Hoof)

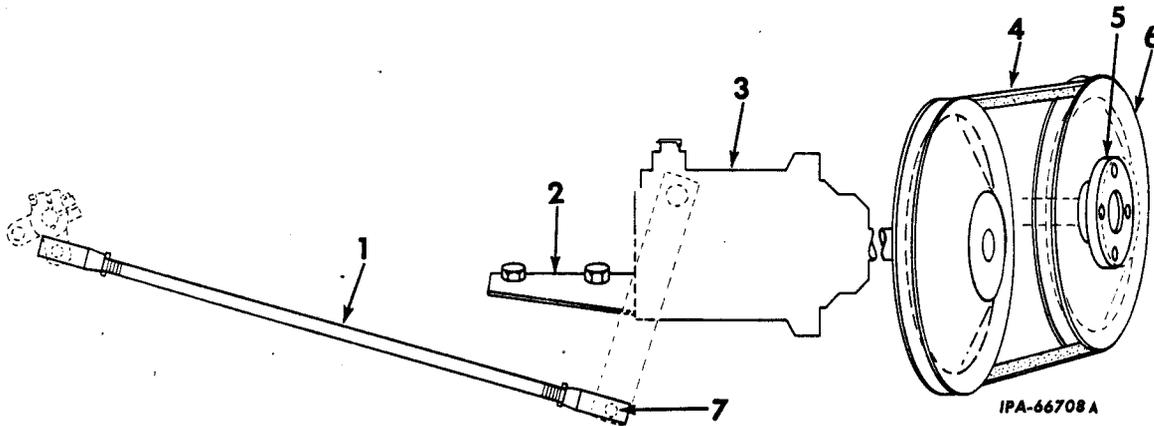
(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.

1	61 977 H	GASKET, carburetor to governor
2	306 341 R91	GOVERNOR, velocity (Unit A)
2	305 522 R91	GOVERNOR, velocity (Unit B)
2	305 524 R91	GOVERNOR, velocity (Unit C)
2	305 523 R91	GOVERNOR, velocity (Unit D)
2	306 342 R91	GOVERNOR, velocity (Unit E)
2	305 521 R91	GOVERNOR, velocity (Unit F)
2	306 343 R91	GOVERNOR, velocity (Unit G)
2	306 344 R91	GOVERNOR, velocity (Unit H)
2	317 651 R91	GOVERNOR, velocity (Unit I)
2	317 650 R91	GOVERNOR, velocity (Unit J)
3	92 388 H	SEAL and WIRE, governor

ENGINE



MECHANICAL GOVERNOR



IPA-66708 A

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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- (X) - KEY TO UNITS
- A - Service parts for Mechanical Governor (1400 to 1600 RPM) (10% Regulation)
 - B - Service parts for Mechanical Governor (1800 RPM) (10% Regulation)
 - C - Service parts for Mechanical Governor (2000 RPM) (10% Regulation)
 - D - Service parts for Mechanical Governor (2200 to 2600 RPM) (10% Regulation)
- (X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.
- | | | |
|---|------------|--|
| 1 | 312 005 R1 | ROD, governor to carburetor
1/4NF NUT (2)
1/4 hex. jam NUT (2)
1/4" lock WASHER (2) |
|---|------------|--|

ENGINE



MECHANICAL GOVERNOR - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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- | | | |
|---|-------------|--|
| 2 | 312 003 R12 | BRACKET, governor mounting |
| 3 | 321 926 R91 | GOVERNOR, mechanical (Unit A) |
| 3 | 321 927 R91 | GOVERNOR, mechanical (Unit B) |
| 3 | 321 928 R91 | GOVERNOR, mechanical (Unit C) |
| 3 | 321 929 R91 | GOVERNOR, mechanical (Unit D)
3/8" NUT (2)
3/8 x 1" hex-hd cap SCREW (2)
3/8" lock WASHER (2)
13/32" flat WASHER (2) |
| 4 | 312 017 R1 | BELT, governor drive |
| 5 | 332 115 R1 | HUB, fan extension
1/4NF x 1" hex-hd cap SCREW (4)
1/4" lock WASHER (4) |
| 6 | 139 486 R91 | PULLEY, governor drive |
| 7 | 276 835 R91 | BALL JOINT, 1/4" NF (2) |



FUEL SYSTEM

REF. NO.	I.H. PART NUMBER	DESCRIPTION
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CARBURETOR AND RELATED PARTS

(X) - KEY TO UNITS

- A - CARBURETOR and related parts for Gasoline Engines with Velocity Governor
- B - CARBURETOR and related parts for Gasoline High Altitude Engines with Velocity Governor
- C - CARBURETOR and related parts for Gasoline Engines with Mechanical Governor
- D - CARBURETOR and related parts for Gasoline High Altitude Engines with Mechanical Governor
- E - CARBURETOR and related parts for Natural Gas Engines with Velocity or Mechanical Governor
- F - CARBURETOR and related parts for Liquefied Petroleum Gas Engines with Velocity or Mechanical Governor

(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.

- 305 735 R91 CARBURETOR ASSEMBLY (for Gasoline Engines with Velocity Governor) (for components see list of parts under details of "Carburetor (Gasoline) - Zenith 228BV 12 Series") (Unit A)
3/8NF NUT (2)
3/8" lock WASHER (2)
- 324 794 R91 CARBURETOR ASSEMBLY (for Gasoline High Altitude Engines with Velocity Governor) (Service parts will be furnished in next revision of this catalog) - Zenith 228 BV 12 series (Unit B)
3/8NF NUT (2)
3/8" lock WASHER (2)
- 317 557 R91 CARBURETOR ASSEMBLY (for Gasoline Engines with Mechanical Governor) (for components see list of parts under details of "Carburetor (Gasoline) - Zenith 228BV12 Series") (Unit C)
3/8NF NUT (2)
3/8" lock WASHER (2)
- 324 793 R91 CARBURETOR ASSEMBLY (for Gasoline High Altitude Engine with Mechanical Governor) (Service parts will be furnished in next revision of this catalog) - Zenith 228 BV 12 series (Unit D)
3/8NF NUT (2)
3/8" lock WASHER (2)
- 305 838 R91 CARBURETOR ASSEMBLY (for Natural Gas Engines with Velocity or Mechanical Governor) (for components see list of parts under details of "Carburetor (Natural Gas and Liquefied Petroleum Gas) - Ensign Model 1-1/2 XG") (Unit E)
3/8NF NUT (2)
3/8" lock WASHER (2)



FUEL SYSTEM

REF. NO.	I.H. PART NUMBER	DESCRIPTION
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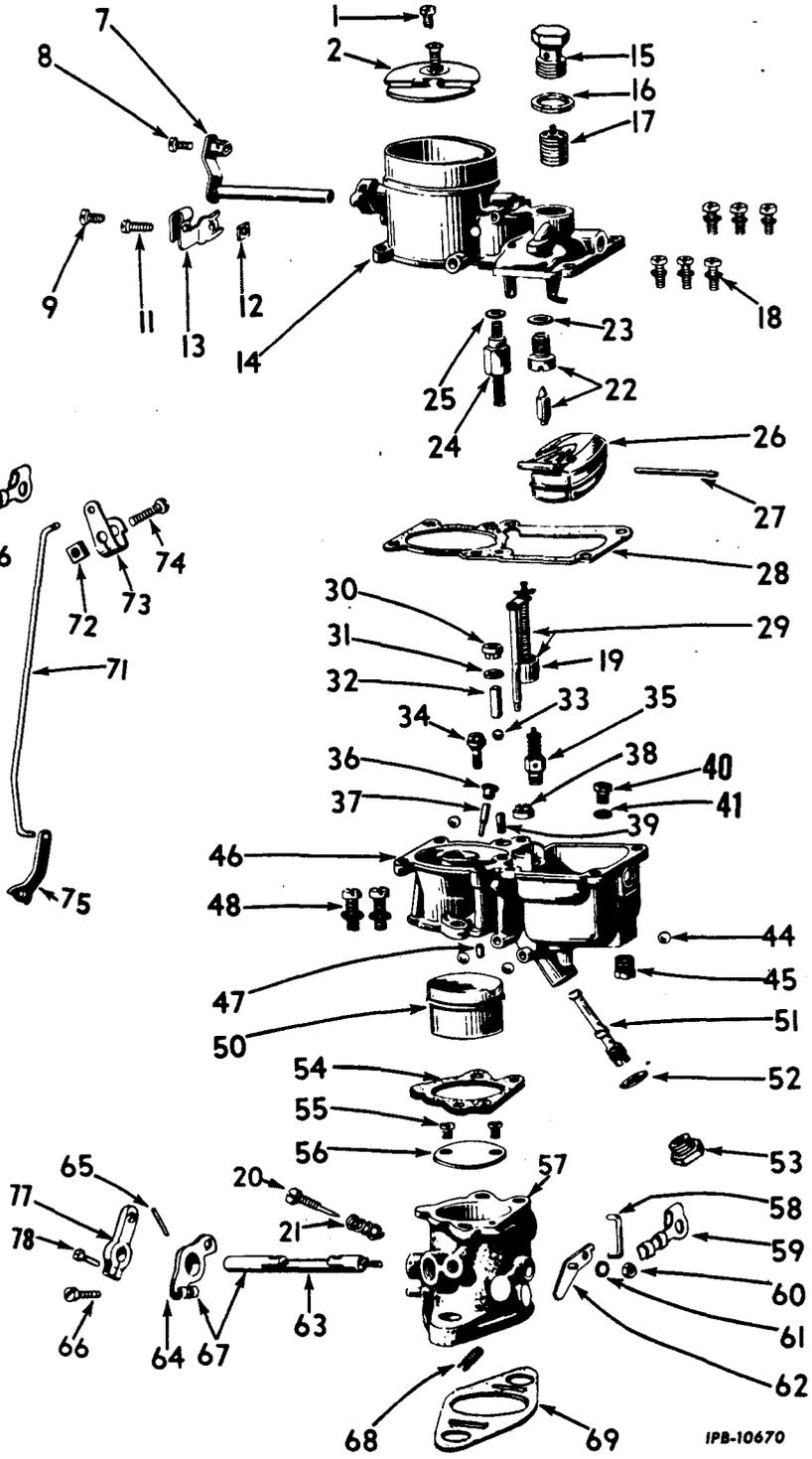
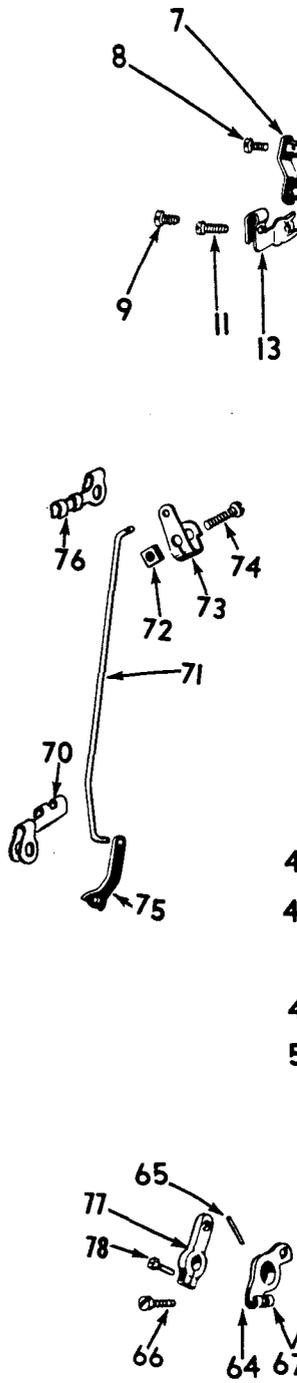
CARBURETOR AND RELATED PARTS - CONTINUED

- 305 839 R91 CARBURETOR ASSEMBLY (for Liquefied Petroleum Gas Engines with Velocity or Mechanical Governor) (for components see list of parts under details of "Carburetor (Natural Gas and Liquefied Petroleum Gas) - Ensign Model 1-1/2 XG") (Unit F)
3/8NF NUT (2)
3/8" lock WASHER (2)
- 305 737 R11 ADAPTER, cross flange w/two STUD, 41 634 D (Units C and D)
- 24 847 H BODY, fuel pipe elbow (2 for Units A, B, C and D)
- 61 977 H GASKET, carburetor (one for Units A, B, E and F) (2 for Units C and D)
- 369 989 R1 NUT, 5/16" nylon insert (2 for Units A, B, C and D)
- 305 738 R1 PIPE, fuel (Units A and B)
305 739 R1 PIPE, fuel (Units C and D)
- 23 974 D SCREW, vacuum by-pass (Units A and B)
- 172 916 R1 BRACKET, fuel pipe
- 41 634 D STUD, adapter cross flange (3/8 x 1-1/2") (2 for Units C and D)

FUEL SYSTEM

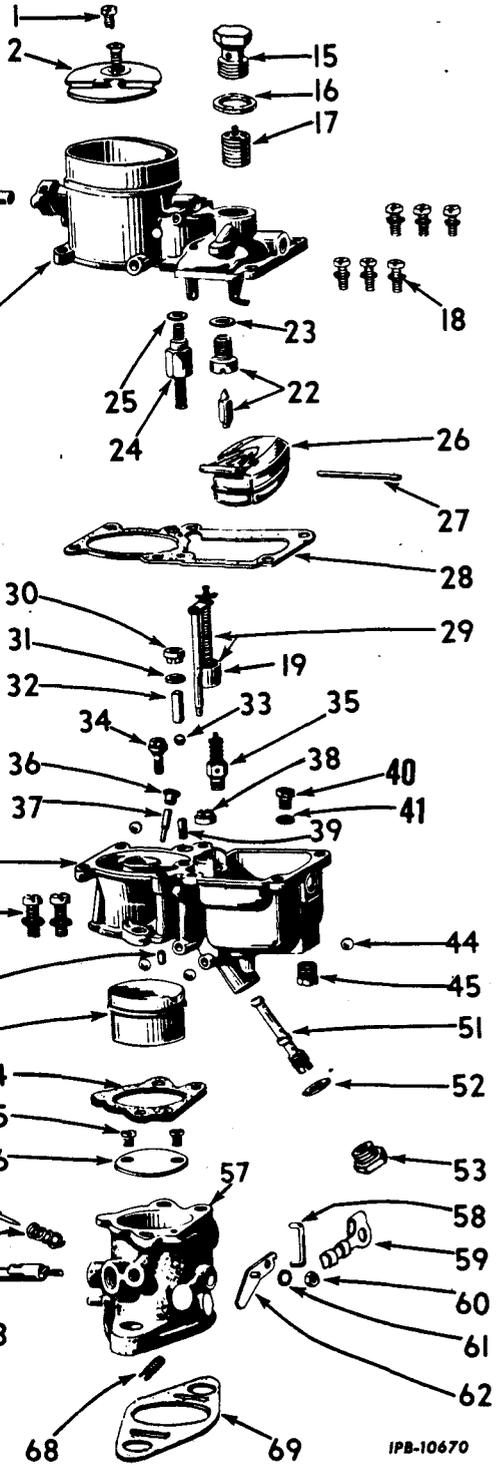


CARBURETOR
(Gasoline) (Zenith 228 Series)



FUEL SYSTEM

CARBURETOR - CONTINUED
(Gasoline) (Zenith 228 Series)



IPB-10670



FUEL SYSTEM

REF. NO.	I. H. PART NUMBER	DESCRIPTION
CARBURETOR - CONTINUED (Gasoline) (Zenith 228 Series)		
305 735 R91		CARBURETOR ASSEMBLY (for Gasoline Engines with Velocity Governor) (Zenith No. 12419)
317 557 R91		CARBURETOR ASSEMBLY (for Gasoline Engines with Mechanical Governor) (Zenith No. 12594)
1		SCREW (NFS)
2		PLATE (NFS)
7		LEVER and SHAFT (NFS)
8		SCREW (NFS)
9		SCREW (NFS)
11		SCREW (NFS)
12		NUT (NFS)
13		CHOKE BRACKET (NFS)
14		AIR INTAKE BODY (NFS)
15		FILTER HEAD (NFS)
16	%±WASHER	
17		FILTER ELEMENT (NFS)
18	%±SCREWS	
19	%±PUMP PISTON	
20	%±IDLE ADJUSTING NEEDLE	
21		SPRING (NFS)
22	%±VALVE and SEAT	
23	%±WASHER	
24	%±VACUUM CYLINDER	
25	%±WASHER	
26		FLOAT (NFS)
27	%±AXLE	
28	%±GASKET	
29		PUMP (NFS)
30	%±AIR VENT CHECK VALVE	
31	%±WASHER	
32	%±BALL CHECK WEIGHT	
33	%±CHECK BALL	
34	%±IDLE JET	
35	%±POWER JET VALVE	
36	±PLUG	
37		ACCELERATOR JET (NFS)
38	%±PUMP CHECK VALVE	
39	%±WELL VENT JET	
40	%±MAIN JET	
41	%±WASHER	
44		CHECK BALL (NFS)
45		DRAIN PLUG (NFS)
46		FUEL BOWL (NFS)
47		±BUSHING
48	%±SCREW	



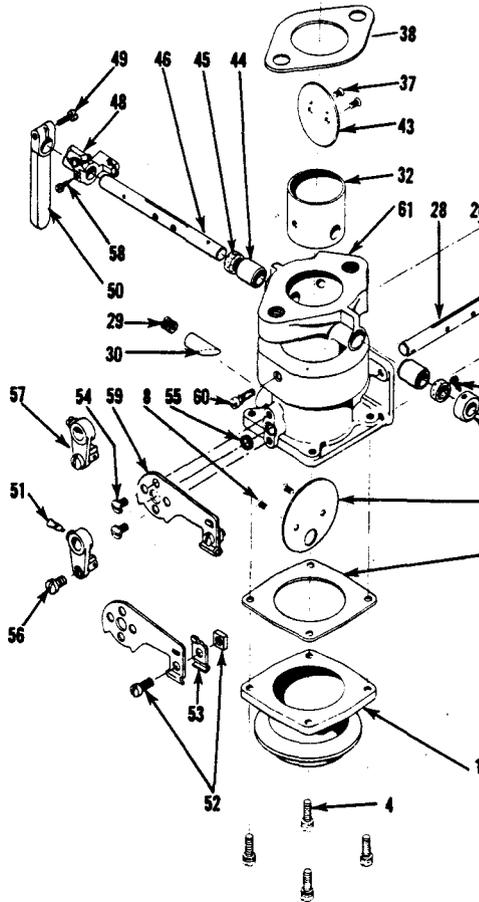
FUEL SYSTEM

REF. NO.	I. H. PART NUMBER	DESCRIPTION
CARBURETOR - CONTINUED (Gasoline) (Zenith 228 Series)		
50		VENTURI (NFS)
51		MAIN DISCHARGE JET (NFS)
52	%±WASHER	
53		PLUG (NFS)
54	%±GASKET	
55	%±SCREW	
56		PLATE (NFS)
57		THROTTLE BODY (NFS)
58	±PUMP LEVER LINK	
59		LEVER and LINK RETAINER (NFS)
60		NUT (NFS)
61		LOCK WASHER (NFS)
62		PUMP LEVER (NFS)
63		THROTTLE SHAFT (NFS)
64		THROTTLE STOP LEVER (NFS)
65		TAPER PIN (NFS)
66		SCREW (NFS)
67		SHAFT and STOP LEVER (NFS)
68		NOT USED IN 228 Series
69		FLANGE GASKET (NFS)
70		CLIP (NFS)
71		ADVANCE ROD (NFS)
72		NUT (NFS)
73		CHOKE LEVER (NFS)
74		SCREW (NFS)
75		THROTTLE ADVANCE LEVER (NFS)
76	%±CLIP	
77		THROTTLE CLAMP LEVER (NFS)
78		SCREW (NFS)
		±PLUG, channel (lead shot)
		±GASKET, bowl to throttle body
613 619 C91	%KIT, carburetor service (K-2001-V) (to service Carburetor, 305 735 R91)	
317 812 R91	±KIT, carburetor service (to service Carburetor, 317 557 R91)	
66 783 R91	KIT, gasket (C-181-94) (Includes necessary gaskets to service Carburetors, 305 735 R91 and 317 557 R91)	
	NFS - Not Furnished Separately.	
	± - Furnished As Part Of Carburetor Service Kit, 317 812 R91.	
	% - Furnished As Part Of Carburetor Service Kit, 613 619 C91.	

FUEL SYSTEM

CARBURETOR

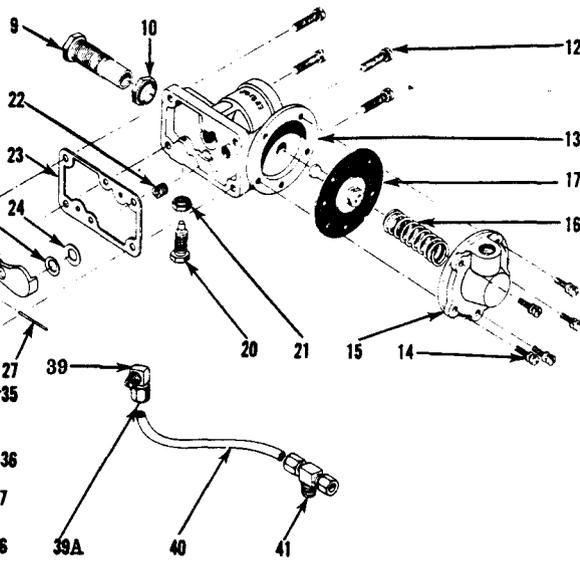
(Natural gas and Liquefied Petroleum gas)
(Ensign Model 1-1/2 XG)



FUEL SYSTEM

CARBURETOR - CONTINUED

(Natural gas and Liquefied Petroleum gas)
(Ensign Model 1-1/2 XG)



IPA-56817A

REF. NO.	I. H. PART NUMBER	DESCRIPTION
	305 838 R91	CARBURETOR ASSEMBLY (for Natural Gas Engines with Velocity or Mechanical Governor) (9025)
	305 839 R91	CARBURETOR ASSEMBLY (for Liquefied Petroleum Gas Engines with Velocity or Mechanical Governor) (9046)
1	128 072 R1	ADAPTER, air cleaner (2561)
4	19 563 R91	SCREW w/LOCKWASHER, No. 12 x 5/8" slt-fil-hd mach (4)
6	128 073 R1	GASKET, air cleaner adapter (8301)
7	128 068 R91	DISC, choke (2902)
8	56 365 D	SCREW, choke disc (6732) (2)
9	56 429 D	SCREW, fuel adjusting (7064G)
10	56 430 D	NUT, fuel adjusting screw lock (4542)
12	19 564 R91	SCREW w/LOCKWASHER, No. 12 x 7/8" slt-fil-hd mach (4)
13	307 977 R1	BODY, gas inlet and economizer (8291)

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REF. NO.	I. H. PART NUMBER	DESCRIPTION
14	455 381	SCREW w/LOCKWASHER, No. 8 x 5/8" slt-fil-hd mach (5)
15	359 623 R1	COVER, economizer (7944)
16	128 071 R1	SPRING, economizer (7067)
17	359 621 R91	DIAPHRAGM, economizer (8324) (Includes service DIAPHRAGM, 113 504 R1 (7070))
20	359 620 R1	SCREW, starting adjusting (8293)
21	113 506 R1	NUT, starting adjusting screw lock (7075)
22	129 367 R1	SCREW, bleed (7939-27)
23	359 624 R1	GASKET, gas inlet and economizer body (8296)
24	37 183 D	WASHER, valve lever (6347)
25	359 615 R1	WASHER, spring (1802)
26	359 614 R1	LEVER, valve (8288)
27	359 616 R1	PIN, valve lever (8289)

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FUEL SYSTEM

REF. NO.	I. H. PART NUMBER	DESCRIPTION
CARBURETOR - CONTINUED (Natural gas and Liquefied Petroleum gas) (Ensign Model 1-1/2 XG)		
28	128 069 R1	SHAFT, choke (5636)
29	268 169 R1	SCREW, bleed (8313) (Unit A)
30	64 835 D	NOZZLE, balance tube (6395)
32		Not Furnished Separately
35	36 756 D	SCREW, "B" throttle shaft collar set (5B210)
36	268 154 R91	COLLAR w/SCREW, 36 756, throttle shaft (4K682)
37	56 370 D	SCREW, throttle disc (6733) (2)
38	307 769 R1	GASKET, adapter flange (3505)
39	121 370	ELBOW, 3/16 - 90° ball sleeve tube
39A	120 487	NUT, ball sleeve tube (3)
40		TUBE, 3/16 OD x 4" copper (length as required) (purchase locally)
41	121 712	TEE, ball sleeve two way
43	268 656 R1	DISC, throttle (5K9e)
44	37 024 D	BUSHING, throttle bearing (B176b) (2)
45	64 837 D	SEAL, dust (7037) (2)
46	307 766 R1	SHAFT, throttle (4830)
48	268 153 R91	STOP w/two SCREW, 11 189 V and SCREW, 36 756 D, throttle (4K644)
49	132 539	SCREW, No. 12 x 5/8" slit-fil-hd mach
50	307 767 R91	LEVER w/SCREW, 132 539, throttle (7-603 A1F1)
51	36 756 D	SCREW, "B" set (5B210)
52		SCREW, No. 10NF x 3/8" slit-fil-hd mach
52		NUT, No. 10NF square
53	56 389 D	CLAMP, choke tube (U-357)
54	443 799	SCREW, No. 8 x 1/4" slit-bd-hd mach (2)
55	58 899 D	SEAL, choke dust (7036)
56	120 216	SCREW, No. 10NF x 1/2" cd-pltd slit-fil-hd mach (821-8)
57	277 190 R91	LEVER w/SWIVEL, SCREW, 36 756 D, and SCREW, 120 216, choke (3485)
58	36 756 D	SCREW, "B" throttle shaft set (5B210)
59	58 889 D	SUPPORT w/CLAMP, 56 389 D, SCREW and NUT, choke tube (7224)
60	271 468	SCREW w/LOCKWASHER, 1/4 x 3/4" slit-fil-hd mach (venturi set screw)
61	307 765 R91	BODY ASSEMBLY, carburetor (SH8469) (for natural gas engines) (Composed of - 2 BUSHING 37 024 D 1 NOZZLE 64 835 D 2 PLUG 13 123 D 1 PLUG 307 768 R1 1 SCREW 268 169 R1)



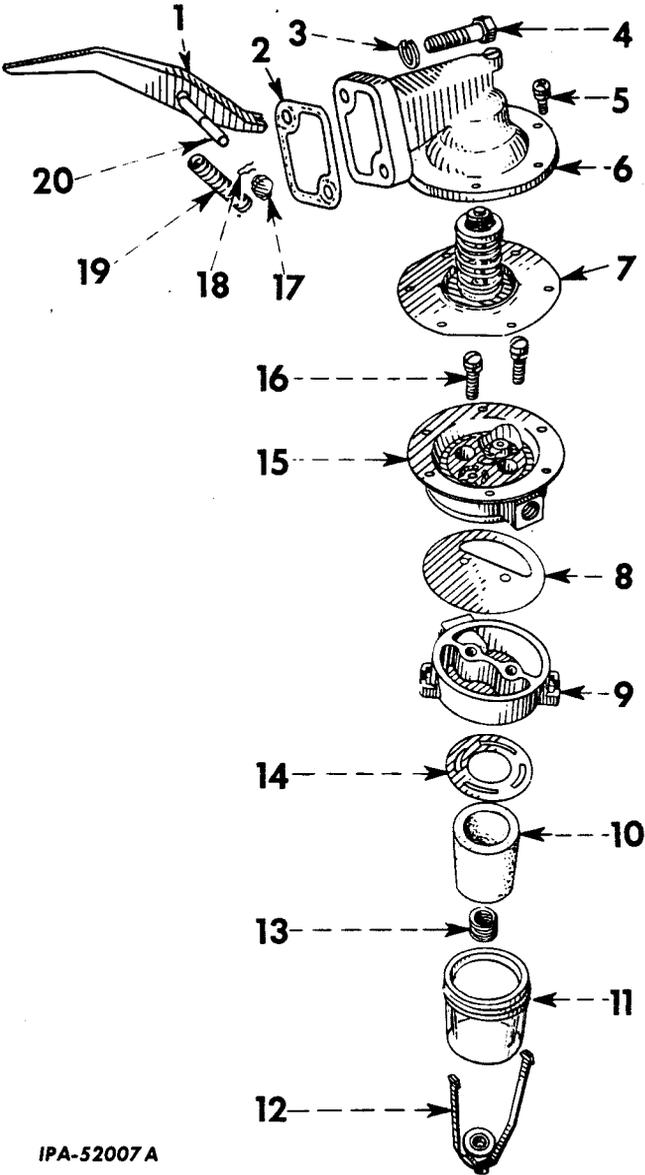
FUEL SYSTEM

REF. NO.	I. H. PART NUMBER	DESCRIPTION
CARBURETOR - CONTINUED (Natural gas and Liquefied Petroleum gas) (Ensign Model 1-1/2 XG)		
61	129 365 R91	BODY ASSEMBLY, carburetor (4661) (for liquefied petroleum gas engines) (Composed of - 2 BUSHING 37 024 D 1 NOZZLE 64 835 D 2 PLUG 13 123 D 1 PLUG 307 768 R1)
305 737 R1		FLANGE, adapter (3625A)
12 215 D		STUD (2) 3/8" lock WASHER (2) 3/8" hex. jam NUT (2)
13 123 D		PLUG, 3/16" expansion welch (302) (2)
307 768 R1		PLUG, 1/8" expansion welch (303)
11 189 V		SCREW, throttle stop adjusting (No. 10 x 5/8" cd-pltd fil-hd mach) (2-70) (2)
120 488		SLEEVE, ball (3)
307 771 R91		PACKAGE, carburetor field service (1851) (Composed of - 1 DIAPHRAGM 113 504 R1 1 GASKET 128 073 R1 1 GASKET 359 624 R1 1 NUT 113 506 R1 1 PIN 359 616 R1 2 SEAL 64 837 D 1 SEAL 58 899 D 4 SCREW w/LOCK WASHER 19 563 R91 2 SCREW 56 365 D 4 SCREW w/LOCK WASHER 19 564 R91 5 SCREW w/LOCK WASHER 455 381 1 SCREW 359 620 R1 2 SCREW 56 370 D 2 SCREW 443 799 1 SCREW w/LOCK WASHER 271 468 2 SCREW 11 189 V 1 SHAFT 128 069 R1 1 SHAFT 307 766 R1 1 SPRING 128 071 R1 1 WASHER 359 615 R1)



FUEL SYSTEM

FUEL PUMP
(Carter) (for Gasoline and Gasoline High Altitude Engines)



IPA-52007 A

REF. NO.	I. H. PART NUMBER	DESCRIPTION
	84 838 R93	PUMP ASSEMBLY. fuel
1	90 623 R1	LEVER, cam
2	612 293 C1	GASKET, pump to crankcase (not part of pump assembly)
3		WASHER, 5/16" lock (2)
4		SCREW, 5/16 x 1-1/4" hex-hd cap (2)
5	90 610 R91	SCREW w/WASHER (6)
6		Not Furnished Separately (order 84 838 R93)

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FUEL SYSTEM

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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FUEL PUMP - CONTINUED
(Carter) (for Gasoline and Gasoline High Altitude Engines)

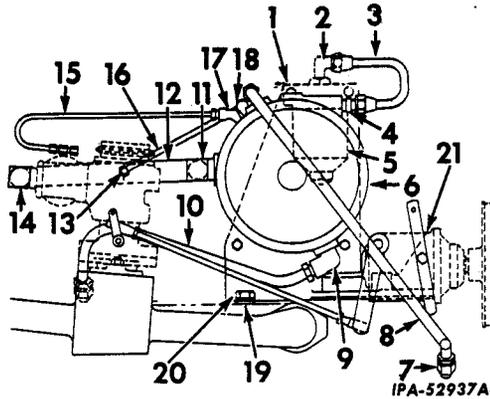
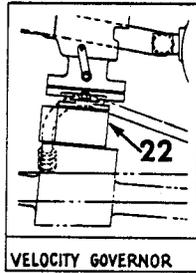
7	90 625 R91	DIAPHRAGM
8	90 626 R1	DIAPHRAGM, air dome
9	109 317 R1	COVER, filter and valve housing
10	967 640 R21	ELEMENT FILTER, glazed ceramic
11	109 313 R11	BOWL w/GASKET, 90 600 R1
12	109 315 R91	RETAINER w/SCREW
13	90 606 R1	SPRING, filter
14	90 600 R1	GASKET, filter bowl
15	121 759 R91	HOUSING, valve
16	90 611 R91	SCREW w/WASHER, valve housing to filter cover (2)
17	90 598 R1	PLUG, cam lever shaft seal
18	90 619 R1	PIN, spring cam lever pin retainer
19	90 603 R1	SPRING, cam lever return
20	90 618 R1	PIN, cam lever
	109 318 R1	WASHER, filter bowl retainer

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FUEL SYSTEM

LIQUEFIED PETROLEUM GAS REGULATOR AND RELATED PARTS



REF. NO.	I.H. PART NUMBER	DESCRIPTION
(X) - KEY TO UNITS		
A		Liquefied petroleum Gas Regulator and related parts (for use w/mechanical governor)(not used w/oil cooler)
B		Liquefied Petroleum Gas Regulator and related parts (for use w/mechanical governor)(for use w/oil cooler)
C		Liquefied petroleum Gas Regulator and related parts (for use w/Velocity governor) (not used w/oil cooler)
D		Liquefied Petroleum Gas Regulator and related parts (for use w/Velocity governor) (for use w/oil cooler)
(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
1	320 226 R11	BRACKET, fuel regulator and filter mounting
2	118 755	ELBOW, 1/4" NPT x 90° (for 3/8" flared tube)
3	305 747 R11	PIPE w/two NUT, fuel inlet (3/8" flared tubing)
4	118 750	CONNECTOR, 1/4"NPT (for 3/8" flared tube)
5	346 818 R91	FILTER ASSEMBLY, fuel (for components see list of parts under details of "Fuel Filter") 5/16" NUT 5/.6 x 3/4" hex-hd cap SCREW 5/16" lock WASHER
6		REGULATOR ASSEMBLY, fuel (for components see list of parts under details of "Fuel Regulator (Liquefied Petroleum Gas)") 5/16" NUT (3) 5/16 x 1-1/8" hex-hd cap SCREW (3) 5/16" lock WASHER (3)
7	18 506 R1	CONNECTOR, regulator water outlet pipe (Units A and C)
8	995 064 R1	TUBE, regulator water outlet (28" long copper 1/2" OD (#)) (Units A and C)
9	68 134 D	ELBOW, regulator water inlet pipe
10	995 064 R1	TUBE, regulator water inlet (16" long copper 1/2" OD (#))
11	171 815 R1	ELBOW, 3/4"NPT x 1" x 90° fuel hose
12	305 836 R1	HOSE, 1" ID x 14" long, fuel inlet



FUEL SYSTEM

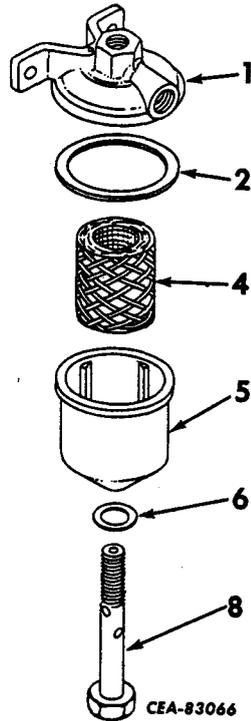
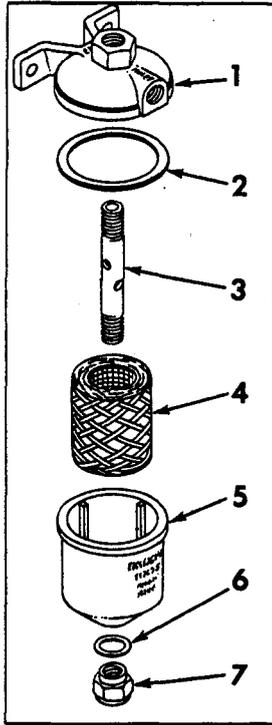
LIQUEFIED PETROLEUM GAS REGULATOR AND RELATED PARTS - CONTINUED

REF. NO.	I.H. PART NUMBER	DESCRIPTION
13	35 252 D	CONNECTOR, 1/8"NPT x 5/16" balance tube
14	171 817 R1	ELBOW, 1"NPT x 1" x 90° fuel hose
15	995 060 R1	TUBE, idle (14" long, copper 3/16" OD (#))
16	995 062 R1	TUBE, balance (13" long, copper 5/16" OD (#)) (Units A and B)
16	995 062 R1	TUBE, balance (12" long, copper 5/16" OD (#)) (Units C and D)
17	18 580 R1	ELBOW, idle tube (45° male pipe elbow)
18	24 847 H	ELBOW, 1/8" NPT x 5/16" tube x 90° balance tube
19	289 555 R1	SPACER, mounting bracket
20	263 017 R1	BOLT, 1/2 x 5" (2)
21		GOVERNOR, mechanical (for governor part no. refer to list under "Mechanical Governor") (Units A and B)
22		GOVERNOR, velocity (for governor part no. refer to parts list under "Velocity Governor-Hoof") (Units C and D)
	274 085 R91	CLAMP, fuel hose (2)
	18 506 R1	CONNECTOR, regulator water inlet pipe
	68 134 D	ELBOW, regulator water outlet pipe (Units A and C)
	899 720 R1	ELBOW, 1/2 x 5/8" (Units B and D)
	19 985 R1	NUT, 5/16" OD tube nylon (balance tube elbow)
	19 985 R1	NUT, 5/16" OD tube nylon coupling (balance tube connector)
	25 038 HA	NUT, coupling (idle tube elbow)
	371 217 R1	NUT, coupling (regulator water inlet pipe connector)
	19 987 R1	NUT, 1/2" OD coupling (regulator water inlet pipe elbow)
	19 987 R1	NUT, 1/2" OD tube coupling (regulator water outlet pipe connector) (Units A and C)
	19 987 R1	NUT, 1/2" OD tube coupling (regulator water outlet pipe elbow) (Units A and C)
		(#) - Part Number And Price Covers One Foot Of Tubing. Furnished Only In 50 Foot Rolls.



FUEL SYSTEM

FUEL FILTER
(Liquefied Petroleum Gas)



REF. NO.	I. H. PART NUMBER	DESCRIPTION
Parts without letters after the description indicates the part is used for all filter assemblies listed below: Letters "A" and "B" are used to identify separate filter assemblies.		
A	64 147 D	FILLTER ASSY, fuel (order 346 818 R91)
B	346 818 R91	FILTER ASSY, fuel (will work for 64 147 D)
1		TOP, filler (order 346 818 R91)
2	64 399 D	GASKET, filler top to filter bottom
3	64 402 D	STUD, filter (Filter A)
4	64 400 DC	ELEMENT, w/GASKET, 64 399 D and GASKET, 64 401 D ASSY, filter
5		BOWL, filter (order 346 818 R91)
6	64 401 D	GASKET, filter bowl
7	64 403 D	NUT, filter stud (Filter A)
8		BOLT, filter bowl (order 346 818 R91) (Filter B)



MEMORANDA



MEMORANDA

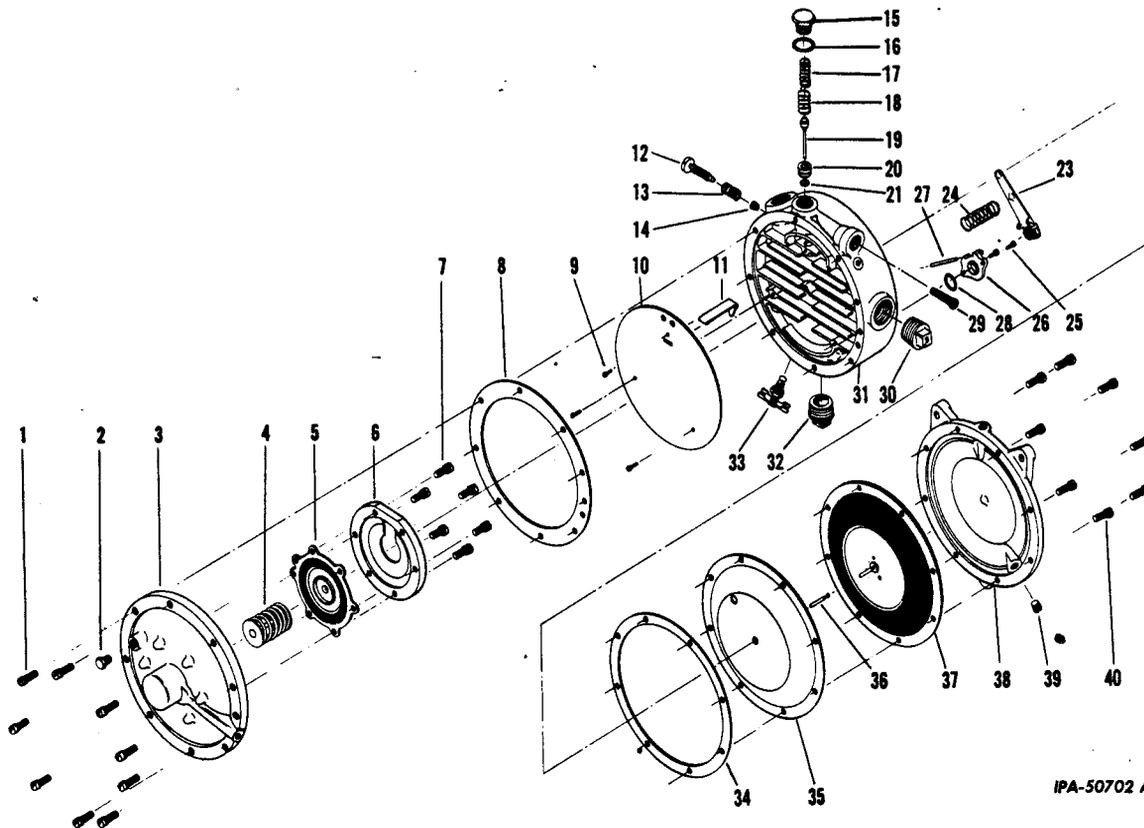


MEMORANDA



FUEL SYSTEM

FUEL REGULATOR
(Ensign) (Liquefied Petroleum Gas)



IPA-50702 A

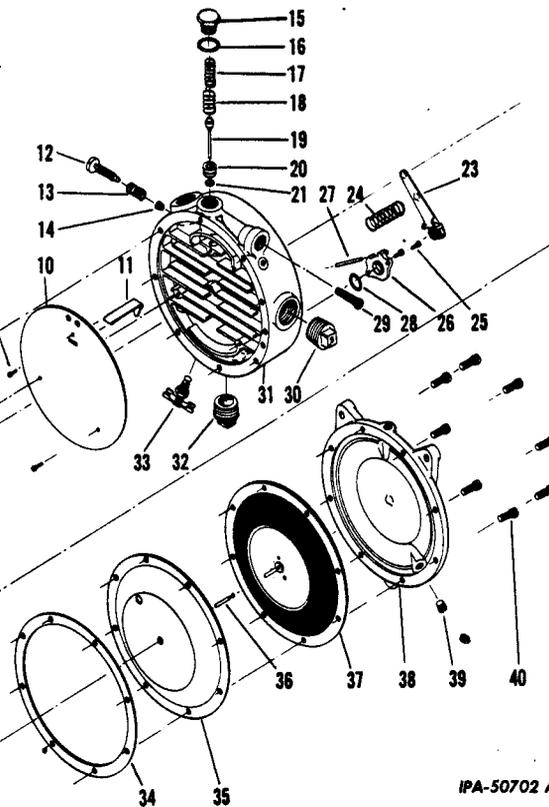
REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	19 270 R1	SCREW w/LOCKWASHER, No. 10NF x 5/8" slt-fil-hd. mach. vaporizer cover (821-10S) (9)
2	444 814	PLUG, 1/8" pipe (5145)
3	277 195 R91	COVER w/PLUG, 13 017 R1, vaporizer (2991)
4	277 196 R91	SPRING, high pressure (2993)
5	277 370 R91	DIAPHRAGM, high pressure (3010)
6	277 197 R1	COVER, high pressure diaphragm (3019)
7	19 270 R1	SCREW w/LOCKWASHER, No. 10NF x 5/8" slt-fil-hd. mach. high pressure diaphragm cover (821-10S) (6)
8	277 198 R1	GASKET, vaporizer cover (3022)
9	277 199 R1	SCREW, vaporizer partition plate (3048) (3)
10	277 350 R1	PLATE, vaporizer partition (2988)
11	277 351 R1	LEVER, high pressure valve (2989)
12	37 179 D	SCREW, idle adjusting (387C)
13	14 526 D	SPRING, idle adjusting screw retainer (222F)
14	113 437 R1	SCREW, "B" bleed (4B65)
15	277 353 R1	RETAINER, high pressure valve spring (2715)

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FUEL SYSTEM

FUEL REGULATOR --CONTINUED
(Ensign) (Liquefied Petroleum Gas)



REF. NO.	I. H. PART NUMBER	DESCRIPTION
16	2.7 354 R1	GASKET, high pressure valve spring retainer (2689)
17	277 355 R1	SPRING, high pressure valve (2717)
18	277 356 R1	SPRING, high pressure valve seat retainer (2987)
19	277 357 R1	VALVE, high pressure (2985)
20	277 358 R91	SEAT w/SEAL, 359 600 R1, high pressure valve (2979)
21	359 600 R1	SEAL, high pressure valve (8739)
23	113 443 R91	LEVER, low pressure valve (8863)
24	277 360 R1	SPRING, low pressure valve (3033)
25	19 271 R91	SCREW w/LOCKWASHER, No. 6 x 7/16" fil-hd. mach. low pressure valve (771-7S) (2)
26	277 361 R1	SEAT, low pressure valve (3030)
27	277 362 R1	PIN, pivot (3119)
28	352 221 R1	SEAL, low pressure valve (3388)
29	113 434 R91	STRAINER, fuel inlet (8360)
30	113 186	PLUG, 3/4" pipe (2)

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FUEL SYSTEM



MEMORANDA



REF. NO.	I. H. PART NUMBER	DESCRIPTION
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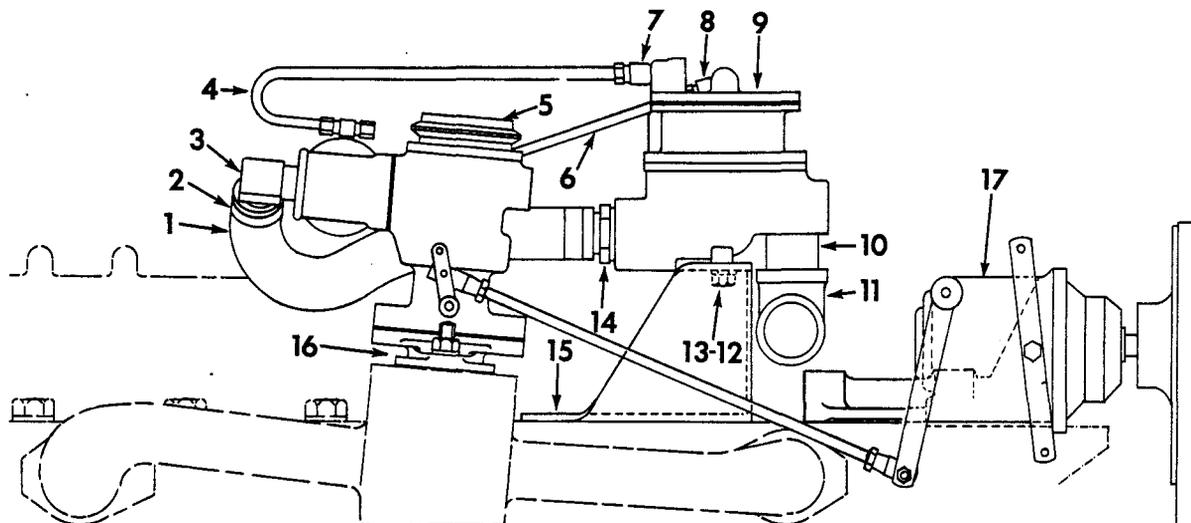
FUEL REGULATOR - CONTINUED
 (Ensign) (Liquefied Petroleum Gas)

31		BODY, regulator (order 277 369 R91)
32	113 186	PLUG, 3/4" pipe
33	114 981	VALVE, drain
34	64 433 D	GASKET, low pressure partition plate (5181)
35	277 365 R1	PLATE, low pressure partition (3036)
36	277 366 R1	PIN, diaphragm push (3039)
37	277 367 R91	DIAPHRAGM w/PIN, 277 366 R1, low pressure (3038)
38	277 368 R2	PLATE, support (3040)
39	118 831	PLUG, 1/8" slt-hd. pipe (3094)
40	19 270 R1	SCREW w/LOCKWASHER, No. 10NF x 5/8" slt-fil-hd. mach. support plate (821-105) (8)
277 369 R91		PACKAGE, fuel regulator field service (3141) (Composed of -
	1	DIAPHRAGM 277 370 R91
	1	DIAPHRAGM 277 367 R91
	1	GASKET 64 433 D
	1	GASKET 277 198 R1
	1	GASKET 277 354 R1
	1	LEVER 113 443 R91
	1	LEVER 277 351 R1
	1	PIN 277 362 R1
	23	SCREW 19 270 R1
	2	SCREW 19 271 R91
	1	SCREW 37 179 D
	3	SCREW 277 199 R1
	1	SEAL 352 221 R1
	1	SEAT 277 358 R91
	1	SEAT 277 361 R1
	1	SPRING 277 196 R91
	1	SPRING 277 355 R1
	1	SPRING 277 356 R1
	1	SPRING 277 360 R1
	1	STRAINER 113 434 R91
	1	VALVE 277 357 R1)
13 017 R1		PLUG, 1/4 x .032" Welch expansion (385)
103 885		PLUG, 3/8" pipe (3128) (2)

FUEL SYSTEM



NATURAL GAS FUEL REGULATOR AND RELATED PARTS



IPA-56786 A

FUEL SYSTEM

NATURAL GAS FUEL REGULATOR AND RELATED PARTS - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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(X) - KEY TO UNITS

- A - Natural Gas Regulator) (for use with Velocity Governor) (not used with oil cooler)
- B - Natural Gas Regulator) (for use with Mechanical Governor) (for use with oil cooler)

(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.

1	305 836 R1	HOSE, 1" ID x 14" fuel inlet
2	274 086 R91	CLAMP, fuel hose (2)
3	171 817 R1	ELBOW, fuel hose
4	305 757 R1	TUBE, idle (Unit A)
4	305 756 R1	TUBE, idle (Unit B)
5	305 838 R91	CARBURETOR (Ensign Model 1-1/2 XG) (not furnished as part of Regulator Group) (for components see list of parts under details of "Carburetor")
6	305 754 R1	TUBE, balance (Unit A)
6	305 755 R1	TUBE, balance (Unit B)

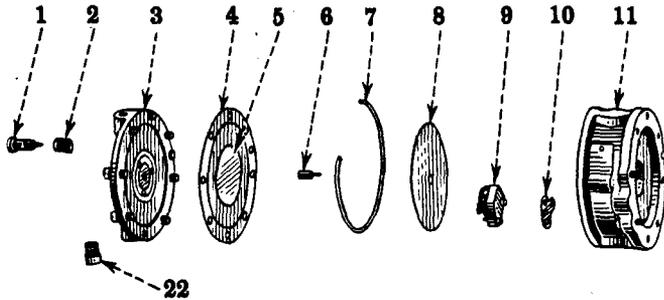
REF. NO.	I. H. PART NUMBER	DESCRIPTION
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7	36 521 D	CONNECTOR, idle tube
8	32 468 H	ELBOW, 90° balance tube
9	35 816 D	REGULATOR, natural gas fuel (for components see list of parts under details of "Natural Gas Regulator") (Ensign) 5/16 x 5/8" hex-hd. cap SCREW (2) 5/16" lock WASHER (2)
10	191 492	NIPPLE, 1" NPT x 2" pipe
11	119 100	ELBOW, 1" NPT x 90° pipe
12		Follows Reference No. 9
13		Follows Reference No. 9
14	188 900 R1	CONNECTOR, fuel hose
15	305 752 R11 36 521 D 25 038 HA	BRACKET, regulator mounting CONNECTOR, balance tube NUT, coupling (3)
16		GOVERNOR, velocity (for governor part no. refer to list under "Velocity Governor - Hoof") (Unit A)
17		GOVERNOR, mechanical (for governor part no. refer to list under "Mechanical Governor") (Unit B)



FUEL SYSTEM

NATURAL GAS REGULATOR (American Bosch)

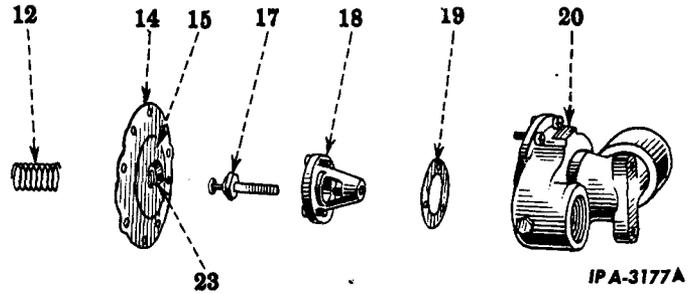


REF. NO.	I. H. PART NUMBER	DESCRIPTION
	35 816 D	REGULATOR UNIT (Model 1" Type B) (RVB 100A1)
1	37 011 D	SCREW, idle adjusting (SC 4619)
2	36 758 D	SPRING, idle adjusting screw retainer (will work for 14 526 D) (SP 4629)
3		COVER (Not Furnished Separately) SCREW, fil-hd. cd-pltd. No. 10-32NF x 1/2" (SC 24-8CA) (8) WASHER, lock No. 10 (WA 5-5CA)
4	37 012 D	GASKET, upper diaphragm (Ensign 5546) (2)
5	36 909 D	DIAPHRAGM, upper, w/two GASKET, 37 012 D (DM 4655A)
6	36 907 D	ROD, valve lever push (RD 4612A)
7	36 910 D	WIRE, partition plate locking (WI 461)
8	36 911 D	PLATE, partition (PL 467)
9	36 902 D	VALVE, pilot, w/GASKET, 36 903 D (VA 4656A) SCREW, fil-hd. cd-pltd. No. 6-32NC x 7/16" (3) WASHER, lock, medium, No. 6 (3)
10	36 903 D	GASKET, valve lever support (GA 4651)
11	268 201 R91	BOWL w/BUSHING (Ensign 6463)



FUEL SYSTEM

NATURAL GAS REGULATOR - CONTINUED (American Bosch)



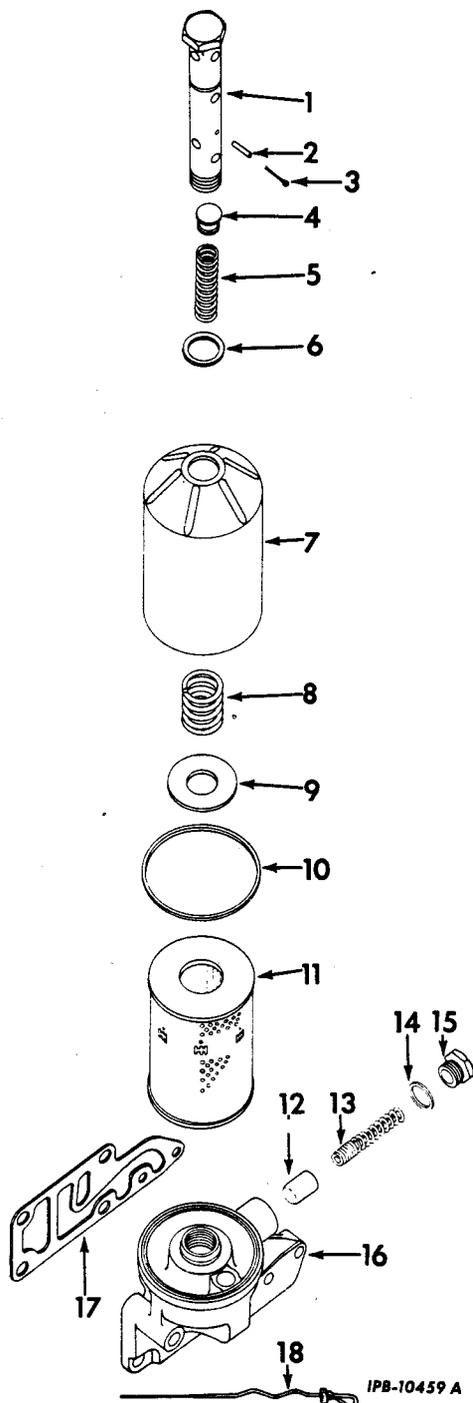
REF. NO.	I. H. PART NUMBER	DESCRIPTION
12	37 010 D	SPRING, lower diaphragm (SP 4616)
14	42 331 D	DIAPHRAGM, lower, 324 797 R1 and PLATE, 42 333 D (DM 4650A)
14	324 797 R1	DIAPHRAGM, lower (DM-464)
15	42 333 D	PLATE, lower diaphragm (PL-4617) (2)
17	36 897 D	VALVE (VA 46112A)
18	36 896 D	SEAT, valve (Ensign 268-12) SCREW, fil-hd. cd-pltd. No. 10-32NF x 9/16" (SC 1900) (3)
19	36 895 D	GASKET, valve seat (GA 4633)
20		BODY, regulator (Not Furnished Separately) SCREW, fil-hd. cd-pltd. No. 10-32NF x 1/2" (SC 24-8CA) (8) WASHER, lock, No. 10 (WA 5-5CA) (8)
22	37 009 D	PLUG, balance tube (PG-1082)
23	42 334 D	SCREW w/PLATE 268 207 R1 diaphragm (PL 4674A)
	118 831	PLUG, pipe, 1/8" (PG 1088)
	37 009 D	PLUG, pipe, 1/8" (pressure test hole plug) (PG 1082)
	268 207 R1	PLATE, diaphragm screw head

IPA-3177A



LUBRICATION SYSTEM

OIL FILTER AND OIL LEVEL GAUGE



PRINTED IN UNITED STATES OF AMERICA

(REV. NO. 2 1-67)



LUBRICATION SYSTEM

OIL FILTER AND LEVEL GAUGE - CONTINUED

(X) - KEY TO UNITS

- A - Service parts for Oil Filter and Oil Level Gauge (not used with oil cooler)
- B - Service parts for Oil Filter and Oil Level Gauge (for use with oil cooler)

•(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.

	323 871 R91	FILTER ASSEMBLY, oil (Unit A)
	304 003 R91	FILTER ASSEMBLY, oil (Unit B)
1	304 005 R91	TUBE w/PIN, 17 141 R1, VALVE, 304 008 R1, and SPRING, 304 009 R1, center
2	17 141 R1	PIN, by-pass valve and spring retainer (5/32 x 1" Esna roll pin)
3	103 364	PIN, retaining spring washer 1/16 x 1-1/4" cotter
4	304 008 R1	VALVE, oil filter by-pass
5	304 009 R1	SPRING, by-pass valve
6		GASKET, center tube (order 320 273 R91)
7	303 998 R1	CASE, oil filter
8	304 011 R1	SPRING, element retaining
9	304 010 R1	WASHER, element retaining spring
10	304 854 R1	GASKET, oil filter case
11	323 827 R91	ELEMENT w/GASKET, 304 854 R1, oil filter
12	61 261 VA	VALVE, oil pressure relief
13	49 946 HA	SPRING, oil pressure relief valve
14	3 405 H	GASKET, oil pressure relief valve cap
15	61 263 VA	CAP, oil pressure relief valve
16	371 237 R11	BASE ASSEMBLY, oil filter (Unit A) (Composed of - § 1 BASE 1 CAP 61 263 VA 1 GASKET 3 405 H 1 PLUG 17 191 R1 1 SPRING 49 946 HA 1 VALVE 61 261 VA) 5/16 x 1-5/8" hex-hd cap SCREW 7/16 x 1-5/8" hex-hd cap SCREW (2) 7/16 x 1-3/4" hex-hd cap SCREW 7/16 x 2-3/4" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
16	320 285 R11	BASE w/PLUG, 445 686, oil filter (Unit B) 7/16 x 3" hex-hd cap SCREW (2) 7/16 x 1" hex-hd cap SCREW 7/16" lock WASHER (3)
17	349 364 R1	GASKET, oil filter base (Unit A)
17	349 039 R1	GASKET, oil filter base (Unit B)
18	96 435 R11	GAUGE, oil level
	320 273 R91	PACKAGE, center tube gasket field service (consists of GASKET and PIN, 103 364)
	17 191 R1	PLUG, oil filter base drain (1/4" NPT hex-hd pipe) (Unit A)
	445 686	PLUG, 3/8" NPT sq-hd) (Unit B)
	444 618	PLUG, pipe (Unit B)

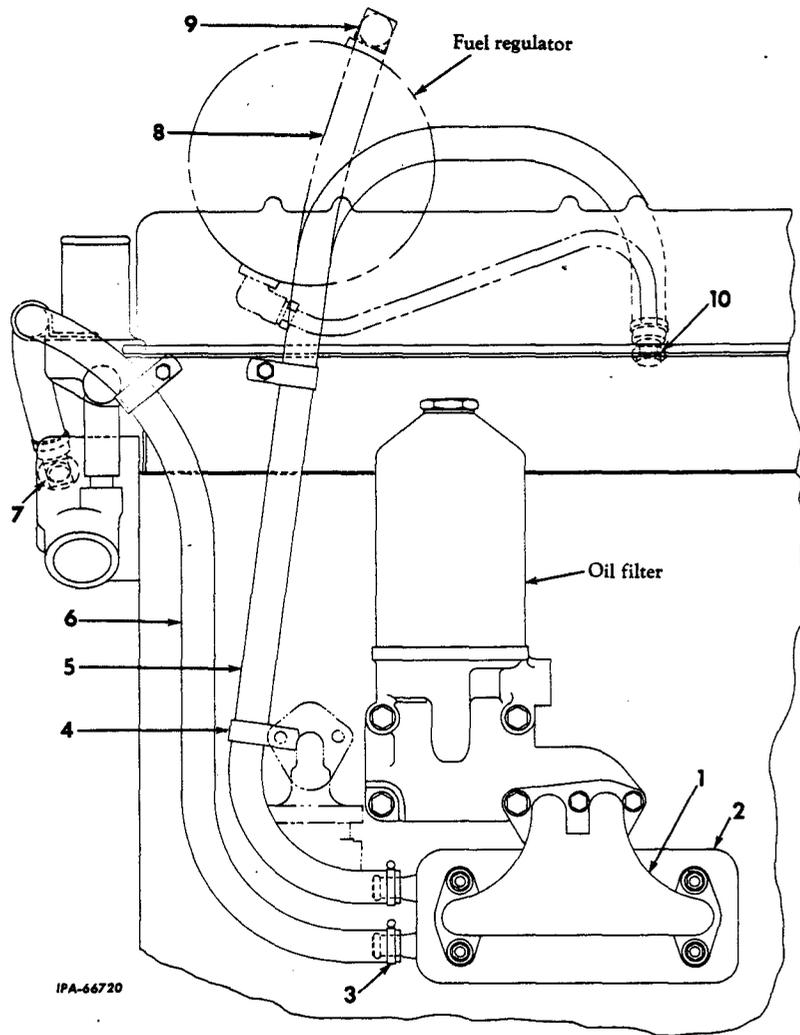
§ - Not Furnished Separately.

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LUBRICATION SYSTEM

OIL COOLER AND RELATED PARTS



LUBRICATION SYSTEM

OIL COOLER AND RELATED PARTS - CONTINUED

REF. NO.	I.H. PART NUMBER	DESCRIPTION
1	279 160 R11	MANIFOLD, engine oil cooler 5/16 x 1-3/4" hex-soc-hd cap SCREW (2) 7/16 x 2" hex-hd cap SCREW 7/16" lock WASHER
2	279 212 R91	COOLER, oil (optional with 338 905 R91)
2	338 905 R91	COOLER, oil (optional with 279 212 R91) 5/16" NUT (2) 5/16" lock WASHER (4)
3	274 085 R91	CLAMP, hose (4)
4	322 499 R1	CLAMP, hose (4) 3/8 x 1/2" hex-hd cap SCREW 3/8" lock WASHER (2)
5	312 809 R1	HOSE, oil cooler to cylinder head (not for use by Liquefied Petroleum Gas Burning Engines)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
6	312 819 R1	HOSE, water pump to oil cooler
7	188 899 R1	ELBOW, 1/2 x 5/8" (in water pump)
8	121 350 R2	HOSE, cooler to fuel regulator (for Liquefied Petroleum Gas burning engines only)
9	899 720 R1	ELBOW, 1/2 x 5/8" (hose in regulator) (for Liquefied Petroleum Gas burning engines)
10	320 182 R1	CONNECTOR, hose (in cylinder head) not for use by Liquefied Petroleum Gas burning engines)
	350 684 R1	"O" RING, oil cooler to manifold



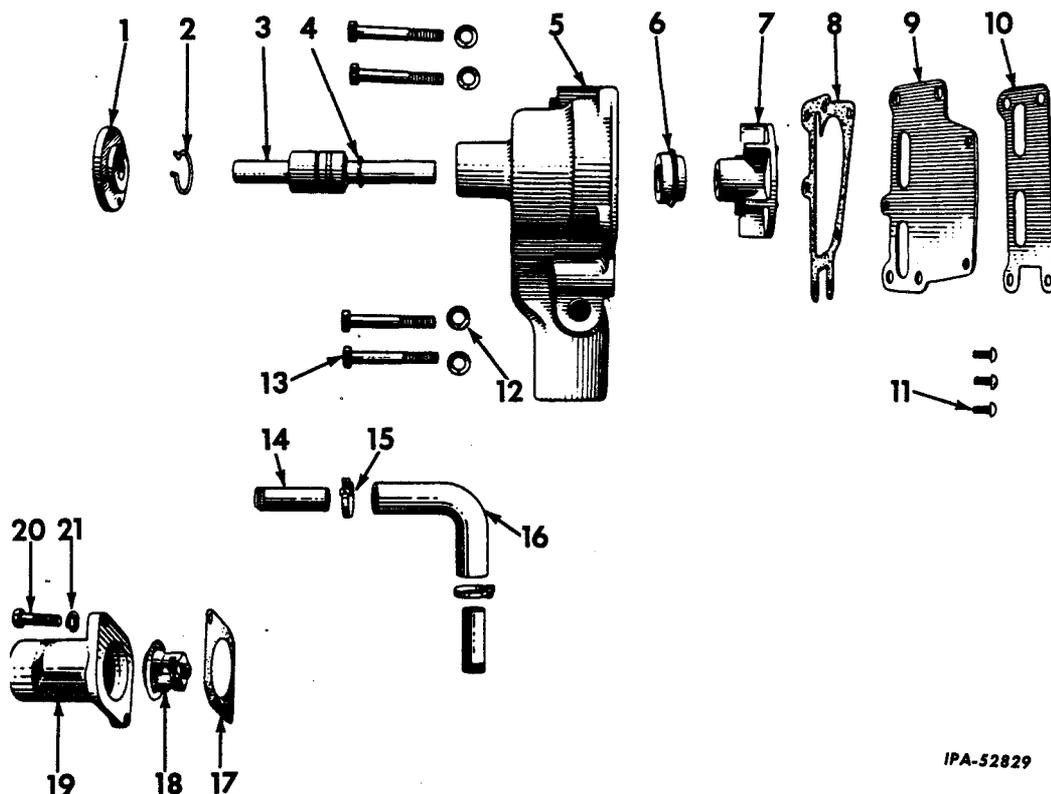
COOLING SYSTEM



COOLING SYSTEM

WATER PUMP, THERMOSTAT AND WATER OUTLET

WATER PUMP, THERMOSTAT AND WATER OUTLET - CONTINUED



IPA-52829

REF. NO.	I. N. PART NUMBER	DESCRIPTION
1	69 673 R1	HUB w/FLANGE, pulley
2	102 069 H	RING, pump shaft snap
3	ST 645	SHAFT w/BEARING
4	71 351 R1	SLINGER, pump shaft
5		BODY (not furnished separately) 3/8 x 2-1/2" hex-hd. cap SCREW (4) 3/8" lock WASHER (4) 103 868 PLUG, 1/2" sq-hd pipe
6	73 296 R92	SEAL, water pump
7	69 670 R1	IMPELLER, water pump
8	69 674 R1	GASKET, pump cover plate
9	69 675 R1	PLATE, water pump 1/4 x 1/2" slt-rd-hd. SCREW (3)
10	69 676 R1	GASKET, pump to crankcase
11		Follows Reference No. 9
12		Follows Reference No. 5
13		Follows Reference No. 5
14	169 193 R1	NIPPLE, 3/8" water by-pass (2) (*)
15	240 369 R91	CLAMP, adjustable hose (3/8 to 3") (2)
16	169 192 R1	ELBOW, by-pass (molded rubber) (*)
17	69 742 R1	GASKET, water outlet

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REF. NO.	I. N. PART NUMBER	DESCRIPTION
18	216 906 R91	THERMOSTAT (160°) (*)
19	164 430 R1	OUTLET, water 5/16 x 1-1/8" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
20		Follows Reference No. 19
21		Follows Reference No. 19
	170 027 R91	PUMP ASSEMBLY, water (Composed of - § 1 BODY 1 GASKET 69 674 R1 1 HUB 69 673 R1 1 IMPELLER 69 670 R1 1 PLATE 69 675 R1 1 PLUG 103 868 1 RING 102 069 H 1 SEAL 73 296 R92 1 SHAFT w/BEARING ST 645 1 SLINGER 71 351 R1)
	78 984 R91	PACKAGE, water pump field service (Composed of - 1 GASKET 69 674 R1 1 GASKET 69 676 R1 1 IMPELLER 69 670 R1 1 RING 102 069 H 1 SEAL 73 296 R92 1 SHAFT w/BEARING ST 645)

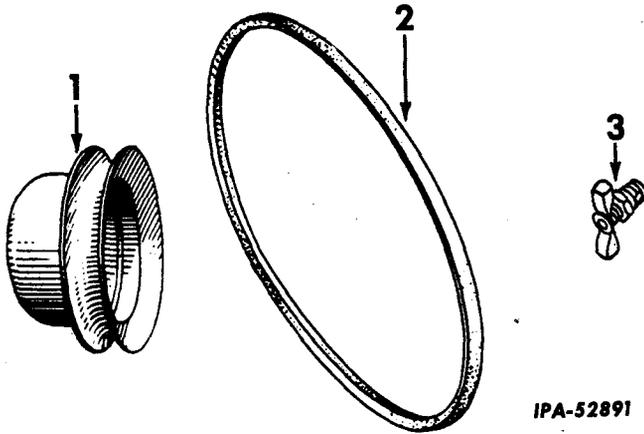
(*) - Used with Radiator and Connection Attachment.
§ - Not Furnished Separately.

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COOLING SYSTEM

FAN BELT AND PULLEY



REF. NO.	I. M. PART NUMBER	DESCRIPTION
1	318 362 R91	PULLEY, fan and water pump 1/4NF x 9/16" hex-hd. cap SCREW (4) 1/4" lock WASHER (4)
2	274 705 R1	BELT, fan
3	103 647	VALVE, 1/4" drain

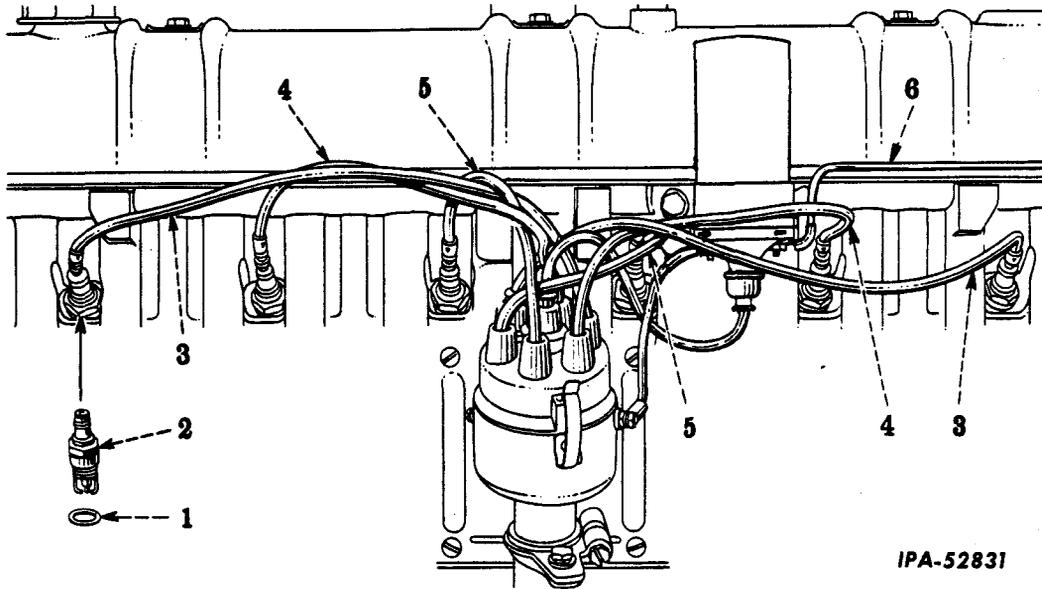


MEMORANDA



ELECTRICAL SYSTEM

SPARK PLUG AND CABLES



IPA-52831

REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	103 225 H	GASKET, spark plug (X)
2		PLUG, spark (Champion J-6) (6) (for natural gas and liquefied petroleum gas engine)
2		PLUG, spark (Champion U-J-8) (6) (for gasoline and gasoline high altitude engine)

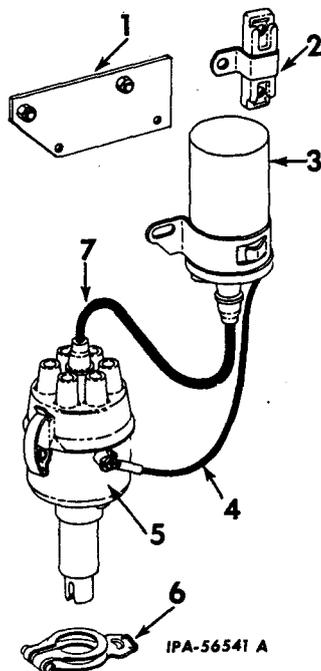
REF. NO.	I. H. PART NUMBER	DESCRIPTION
3	312 354 R91	CABLE, w/NIPPLE, 251 553 R1, spark plug (Distributor to plugs 1 and 6) (2)
4	266 263 R91	CABLE w/NIPPLE, 251 553 R1, spark plug (Distributor to plugs 2 and 5) (2)
5	318 056 R91	CABLE w/NIPPLE, 251 553 R1, spark plug (Distributor to plugs, 3 and 4) (2)
6	370 594 R91	CABLE, coil to resistor
	251 553 R1	NIPPLE, distributor cap terminal (2)
	324 460 R1	RETAINER, spark plug cable (2)

X - As Required



ELECTRICAL SYSTEM

DISTRIBUTOR, COIL AND RELATED PARTS



REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	312 118 R11	BRACKET, ignition coil 5/16 x 5/8" nylok BOLT (2) 5/16" lock WASHER (2)
2		RESISTOR, ignition coil (Delco-Remy No. 1957154) (together with SPACER, 31 987 D will work for RESISTOR (Delco-Remy No. 1928016)
3		COIL, w/CLAMP, ignition (Delco-Remy No. 1115098) 5/16 x 5/8" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
4	69 700 R91	CABLE, distributor to coil (low tension)
5		DISTRIBUTOR ASSY (Delco-Remy No. 1112408) (order 320 049 R91) (for components see list of parts under details of "Distributor") (*)
5		DISTRIBUTOR ASSY (Delco-Remy No. 1112742) (for components see list of parts under details of "Distributor") (**)
5		DISTRIBUTOR ASSY (Delco-Remy No. 1112437) (for components see list of parts under details of "Distributor") (*)
6		ARM, distributor clamp (Delco-Remy No. 1920535) (for use w/DISTRIBUTOR (Delco-Remy No. 1112408)
6		ARM, distributor clamp (Delco-Remy No. 1909205) (for use w/DISTRIBUTOR (Delco-Remy Nos. 1112437 or 1112742) 1/4 x 5/8" hex-hd cap SCREW 1/4" lock WASHER
	16 559 R1	WASHER, 17/64 x 5/8" x 18 ga. flat



ELECTRICAL SYSTEM

DISTRIBUTOR, COIL AND RELATED PARTS - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
7	66 711 R92	CABLE, distributor to coil (high tension)
	171 591 R1	ADAPTER, distributor mounting
	370 594 R91	CABLE, coil to resistor (also listed and illustrated w/"SPARK PLUGS and CABLES")
	583 474 R1	"O" RING, 1-1/16 x 1-1/4 x 3/32" (distributor mounting) (optional with 372 821 R1) (for use with DISTRIBUTOR Delco-Remy No. 1112437 or 1112742)
	372 821 R1	"O" RING, 1-1/16 x 1-1/4 x 3/32" (distributor mounting) (optional with 583 474 R1) (for use with DISTRIBUTOR Delco-Remy No. 1112437 or 1112742)
	320 049 R91	PACKAGE, distributor field service (consists of DISTRIBUTOR (Delco-Remy No. 1112437 CLAMP ARM (Delco-Remy No. 1909205) and "O" RING, 583 474 R1 or 372 821 R1) SCREW, 7/16 x 1/2" hex-hd cap (3) (assemble in left front of cylinder head)
	31 987 D	SPACER (for use with RESISTOR (Delco-Remy No. 1957154 only)
	318 122 R1	SPACER, clamp arm (for use with DISTRIBUTOR (Delco-Remy No. 1112742)
		WASHER, 15/32" flat copper (3)
	104 987 HA	WASHER, spacer (for use with DISTRIBUTOR (Delco-Remy Nos. 1112408 or 1112742)

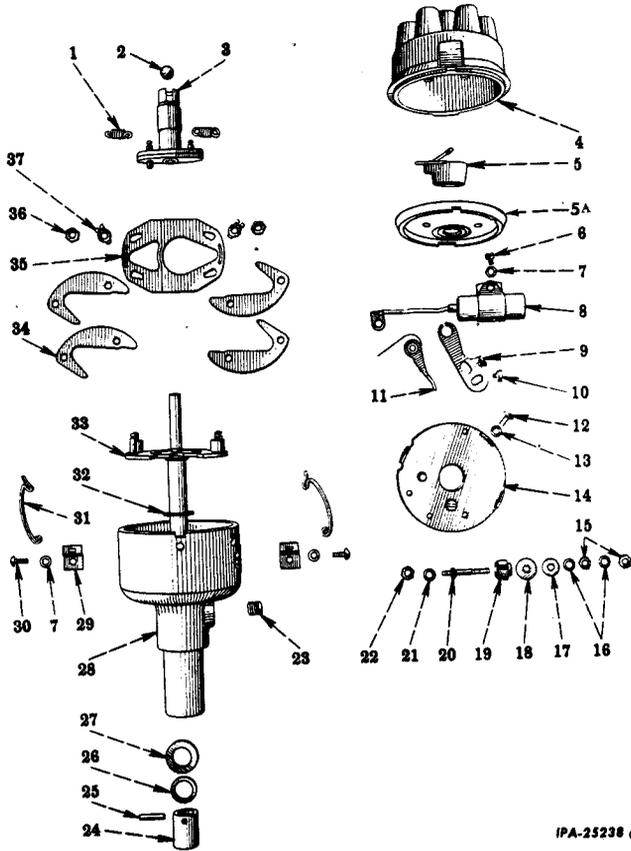
(*) - Not used On Units Equipped With Tachourmeter Attachment.
(**) - For Use With Units Equipped With Tachourmeter Attachment.



ELECTRICAL SYSTEM

DISTRIBUTOR

(For units not equipped with tachourmeter attachment) (Delco-Remy)



REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
(X) - KEY TO UNITS		
A -	1112408	DISTRIBUTOR ASSEMBLY (order PACKAGE, 320 049 R91)
B -	1112437	DISTRIBUTOR ASSEMBLY
(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
1	1903101	SPRING, weight (2)
2	819639	WICK, felt (in cam)
3	1931058	CAM (Unit A)
3	1938135	CAM (Unit B)
4	824735	CAP, distributor (Unit A)
4	1931512	CAP w/BUTTON, 1938193 (Unit B)
5	820445	ROTOR, distributor (Unit A)
5	1924245	ROTOR, distributor (Unit B)
5A	1945388	SEAL, dust (Unit B)
6	131949	SCREW, No. 8 x 3/16" rd-hd. condenser attaching



ELECTRICAL SYSTEM

DISTRIBUTOR-C ONTINUED

(For units not equipped with Tachourmeter Attachment) (Delco-Remy)

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
7	121841	WASHER, condenser terminal attaching lock
7	121841	Follows Reference No. 31
8	1900272	CONDENSER (Unit A)
8	1869704	CONDENSER (Unit B)
9	1848038	POINT w/SUPPORT, contact
10	816784	SCREW, contact clamp
11	813238	LEVER, breaker
12	121749	Follows Reference No. 14
13	121841	Follows Reference No. 14
14	1847643	PLATE, breaker
	121749	SCREW, No. 8 x 5/16" rd-hd. (breaker plate support)
	121841	WASHER, lock
15	120622	NUT, No. 8 terminal stud (outside)
16		(Not Used)
17		(Not Used)
18		(Not Used)
19	1916805	BUSHING, terminal stud insulating (inside)
19	1914142	BUSHING, terminal stud insulating (outside)
20	1916806	STUD, terminal
21		(Not Used)
22	817363	NUT, terminal stud (inside)
23	125947	PLUG, 1/8 sltd-hd. pipe (distributor housing)
24	1912218	COLLAR, main shaft drive (Unit A)
24	1952113	COLLAR, main shaft drive (Unit B)
25	1862218	PIN, main shaft collar (Unit A)
25	1952272	PIN, main shaft collar (Unit B)
26	810074	WASHER, main shaft drive (shim .005") (X)
26	810078	WASHER, main shaft drive (shim .010") (X)
27	811912	WASHER, main shaft drive (spacing collar)
28	1931055	HOUSING, distributor (Unit A)
28	1938136	HOUSING, distributor (Unit B)
29	1847289	SUPPORT, cap spring (2)
30	121832	Follows Reference No. 31
31	1871838	SPRING, distributor cap (2)
	121832	SCREW, No. 8 x 3/8" rd-hd. cap (2)
	121841	WASHER, lock (2)
32	811912	WASHER, spacing (under weight plate)
33	1918017	SHAFT w/weight PLATE, main (Unit A)
33	1955562	SHAFT w/weight PLATE, main (Unit B)
34	1880902	WEIGHT, distributor governor (4)
35	1885557	PLATE, weight hold-down
36	1923540	NUT, weight hold-down (2)
37	1885558	WASHER, weight hold-down lock (2)
	1909003	BUSHING, distributor housing
	821604	BUTTON, carbon, distributor cap (Unit A)
	1855720	CONTACT SET
	1904376	WASHER, lock (terminal stud)
		GREASE, tube of distributor (I. H. Part No. 21 372 D)
	1938193	BUTTON, carbon, distributor cap (Unit B)
	1914144	LOCKCLIP, terminal stud (outside) (Unit B)

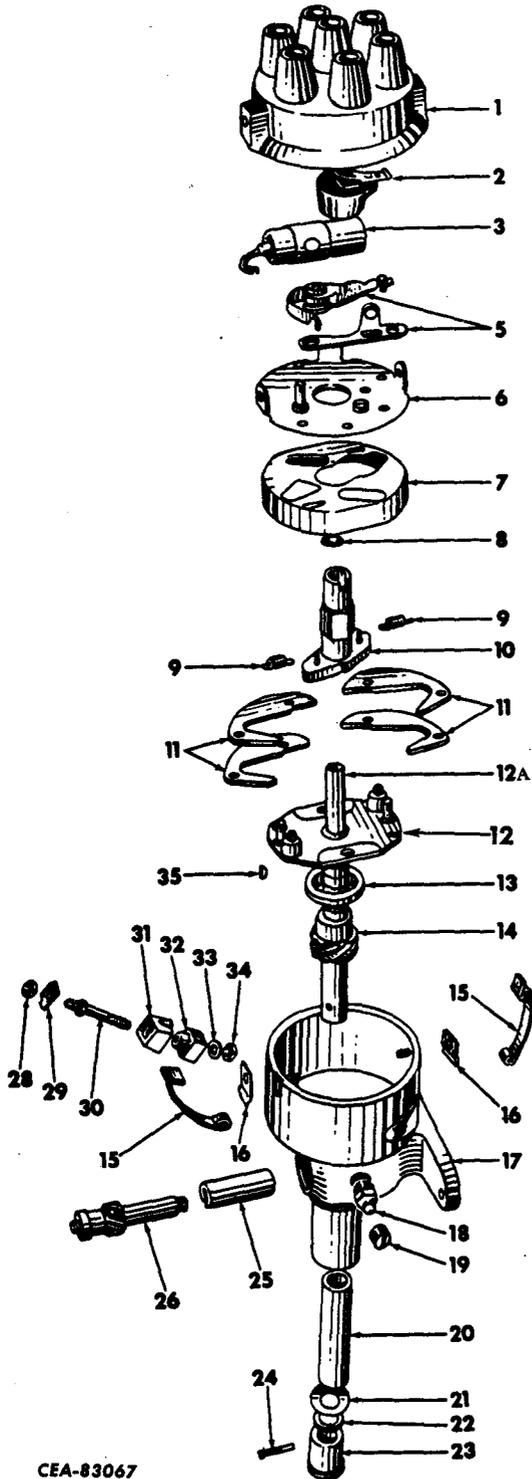
X - As Required

Always Give DISTRIBUTOR NUMBER When Ordering Parts.



ELECTRICAL SYSTEM

DISTRIBUTOR
(Delco-Remy) (For Use With Units Equipped With Tachourmeter Attachment)



CEA-83067



ELECTRICAL SYSTEM

DISTRIBUTOR - CONTINUED
(Delco-Remy) (For Use With Units Equipped With Tachourmeter Attachment)

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
	1112742	DISTRIBUTOR
1	1931512 821604	CAP BUTTON, carbon
2	1931482	ROTOR
3	1869704 453304 453844	CONDENSER SCREW WASHER, lock
5	1855720 1882965 1944374 1948810	POINT SET, regular (standard) POINT SET, regular (heavy duty) POINT SET, pre-assembled (standard) POINT SET, pre-assembled (heavy duty)
6	1847643	PLATE, breaker
7	1945388 1923540	COVER, housing NUT, hex No. 10 medium lock WASHER
8	819639	WICK
9	1903101	SPRING, weight
10	1938135	CAM ASSY
11	1880902	WEIGHT
12	1885557	PLATE, weight hold-down
12A	1946267	SHAFT, main
13	1912820	SEAL
14	1912821	GEAR, governor and tachometer drive
15	1871838	SPRING, cap
16	1847289 453461	SUPPORT, cap spring SCREW No. 8 medium lock WASHER
17	1946264	HOUSING
18	191758	LUBRICATOR, 1/8" straight (extra short)
19	125947	PLUG, 1/8" pipe
20	1909003	BUSHING, shaft
21	811912	WASHER
22	810074	WASHER, .005" thick
22	1912129	WASHER, .010" thick
23	1912218	COLLAR
24	1862218	PIN
25	1912819	BEARING, governor and tachometer drive
26	1915829	SHAFT and GEAR, governor and tachometer drive
	1913003	WASHER, 1/32" thick (spacer)
	1913004	WASHER, .010" thick (spacer)
28	120622	NUT, hex (outside)
29	1914144	CLIP, terminal stud
30	1916806	STUD, terminal
31	1914142	BUSHING, insulator, terminal stud (outside)
32	1916805	BUSHING, insulator, terminal stud (inside)
33	453844	WASHER, terminal stud (inside)
34	817363	NUT, No. 8NC hex (inside)
35	190016	KEY, 3/32 x 5/16" Woodruff
	1912818	PLUG, thrust
	453418	SCREW, breaker plate support
	1914916	SCREW, contact attaching
	1912820	SHIELD, oil
	1885558	WASHER, lock

Always Give DISTRIBUTOR NUMBER When Ordering Parts.

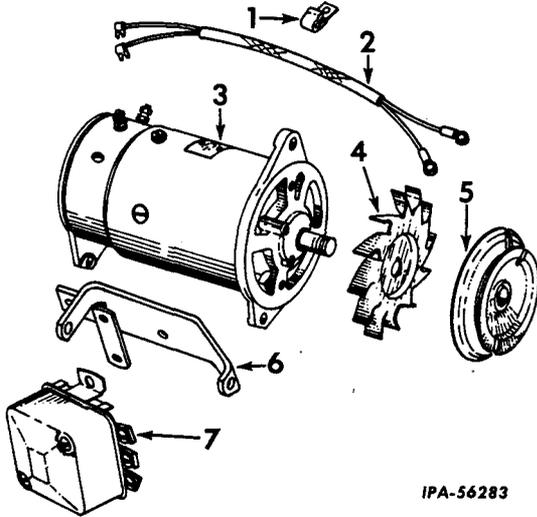


ELECTRICAL SYSTEM



MEMORANDA

GENERATOR AND CONNECTIONS



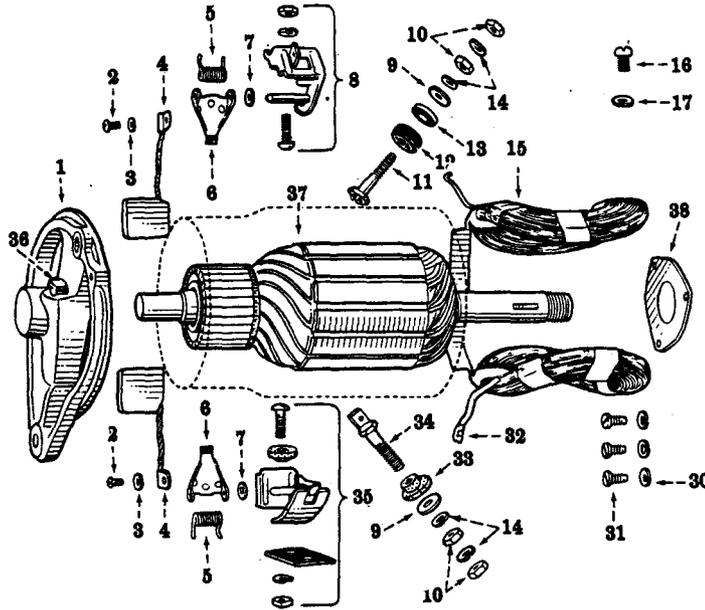
IPA-56283

REF. NO.	I.H. PART NUMBER	DESCRIPTION
1	263 515 R91	CLIP, rubber covered cable
2	264 637 R93	HARNESS, generator to regulator cable
3		GENERATOR w/FAN and PULLEY (12 volt) (Delco-Remy No. 1100365) (for components see list of parts under details of "GENERATOR") 5/16" NUT (2) 5/16 x 1-1/4" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
4		FAN (Delco-Remy No. 1944437)
5		PULLEY (Delco-Remy No. 1911985)
6	305 608 R91	BRACKET, generator and voltage regulator mounting 7/16 x 1" hex-hd cap SCREW (2) 7/16" lock WASHER (2)
7		REGULATOR, voltage (12 volt) (Delco-Remy No. 1118999) (for use w/negative grounded battery) (for components see list of parts under details of "Voltage Regulator")
7		REGULATOR, voltage (12 volt) (Delco-Remy No. 1118779) (for use w/positive grounded battery) (for components see list of parts under details of "Voltage Regulator") 1/4 x 3/8" cd/z-n-pltd hex-hd cap SCREW (2) 1/4" ext-tooth cd/z-n-pltd lock WASHER (2)
	85 089 R2	STRAP, generator adjusting SCREW, 5/16 x 3/4") hex-hd cap) Adjusting Brace WASHER, 5/16" internal-) to Generator external tooth lock) Q 399 WASHER, 11/32" flat)



ELECTRICAL SYSTEM

GENERATOR
(Delco-Remy) (12 Volt)

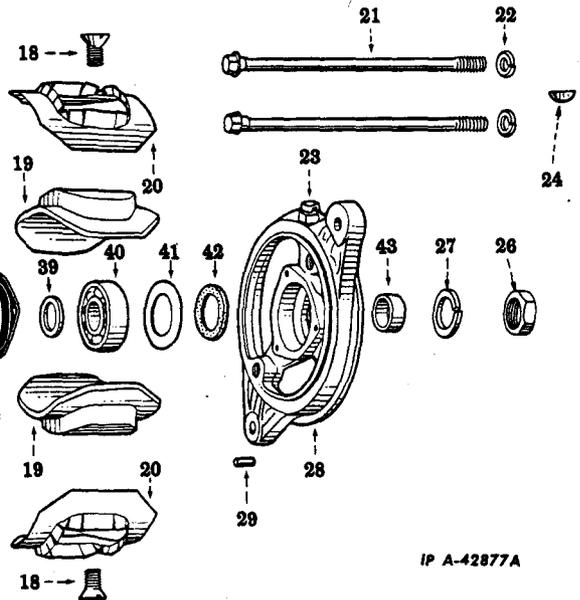


REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
	1100365	GENERATOR ASSEMBLY (Delco-Remy) (12 volt)
1	1939857	FRAME w/OILER, 125609 and PIN, 809062, commutator end
2		Follows Ref. No. 4 (132688)
3		Follows Ref. No. 4 (1904377)
4	1923295 132688	BRUSH w/ LEAD (2) SCREW, brush lead attaching (No. 6 x 1/4" rd-hd.) (2)
	1904377	WASHER, lock (2)
5	1908829	SPRING, brush (2)
6	1878183 1857412	ARM, brush (2) WASHER, brush arm space (2)
7		Follows Ref. No. 6 (1857412)
8	1922288	HOLDER, ground brush
9	1881409	WASHER, terminal stud (flat) (2)
10	121743	NUT, No. 12 hex. terminal stud (4)
11	1921860	STUD, field terminal (to brush)
12	1885090	BUSHING, field terminal insulating
13	1858753	WASHER, field terminal stud insulating
14	1904661	WASHER, terminal stud lock (4)
15	1927700	COIL, field
16	225577	SCREW (top of field frame)
17	120380	WASHER, lock (top of field frame)
18		Follows Ref. No. 19 (1843646)
19	1914618 1843646	SHOE, pole (2) SCREW, pole shoe (2)
20	1914491	INSULATOR, field coil (2)
21	815018 120638	BOLT, thru (2) WASHER, 5/16" lock (2)
22		Follows Ref. No. 21 (120638)
23	1880641	OILER, drive end frame
24	124545	KEY, Woodruff (drive end)



ELECTRICAL SYSTEM

GENERATOR - CONTINUED
(Delco-Remy) (12 Volt)



IP A-42877A

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
26	1911324	NUT, shaft (drive end)
27	1941978	WASHER, shaft nut (drive end)
28	1871693	FRAME w/OILER, 1880641, drive end
29	809593	PIN, dowel (drive end)
30		Follows Ref. No. 38 (1880781)
31		Follows Ref. No. 38 (1904370)
32	200382	CLIP, terminal (to brush)
33	1921362	BUSHING, arm terminal insulating
34	1921369	STUD, arm terminal
35	1922289	HOLDER, insulated brush
36	125609	OILER, commutator end
37	1946903	ARMATURE
38	1911263 1904370 1880781	PLATE, drive end retainer SCREW, retainer plate attaching (3) WASHER, lock (3)
39	809945	WASHER, space (inside-drive end)
40	954378	BEARING, ball (drive end)
41	819104	PLATE, felt washer retainer (drive end)
42	809961	WASHER, felt (drive end)
43	1858603	COLLAR, space (outside-drive end)
44	1912008 904751 1929959 1866400	GASKET, drive end retainer plate BEARING, ball (commutator end) CLAMP, commutator end bearing FAN (Illustrated w/GENERATOR and VOLTAGE REGULATOR GROUP)
	1911985	PULLEY (Illustrated w/GENERATOR and VOLTAGE REGULATOR GROUP)
	809062	PIN, dowel (commutator end)
	1939884	PLUG, commutator end expansion
	823551	WICK, oil (drive end)

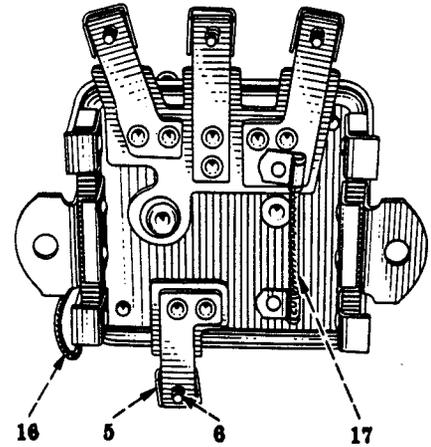
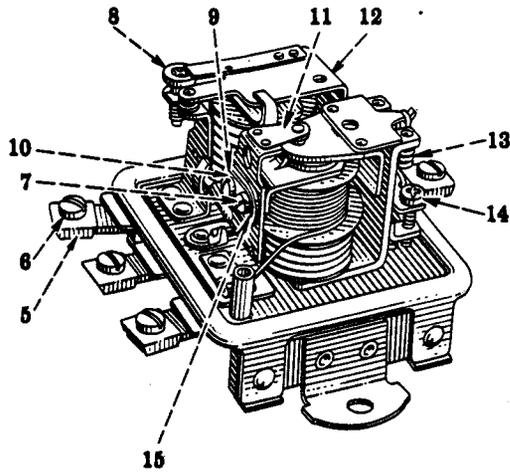
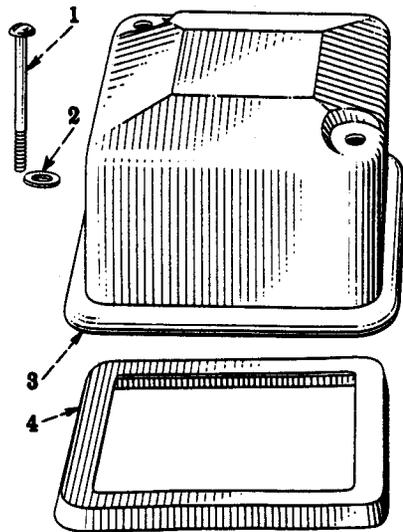
Always Give GENERATOR NUMBER When Ordering Parts.



ELECTRICAL SYSTEM

VOLTAGE REGULATOR

(Delco-Remy) (for use with positive grounded battery)



IPA-33775



ELECTRICAL SYSTEM

VOLTAGE REGULATOR - CONTINUED

(Delco-Remy) (for use with positive grounded battery)

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
	1118779	REGULATOR, voltage 1-1/4NF x 1/2" hex-hd. cap SCREW (2) 1-1/4NF NUT (2) No. 14 lock WASHER (2)
1	1927982	SCREW, cover attaching (2)
2	1922996	WASHER, insulating cover attaching screw (2)
3	1927980	COVER
4	1927981	GASKET, cover
5	1868137	CLAMP, terminal (4)
6	1864099	SCREW, terminal (4)
7	1878516	SCREW, regulator contact attaching (2)
8	1912159	SCREW, adjusting relay armature
9	1878507	WASHER, insulating regulator contact attaching screw (2)

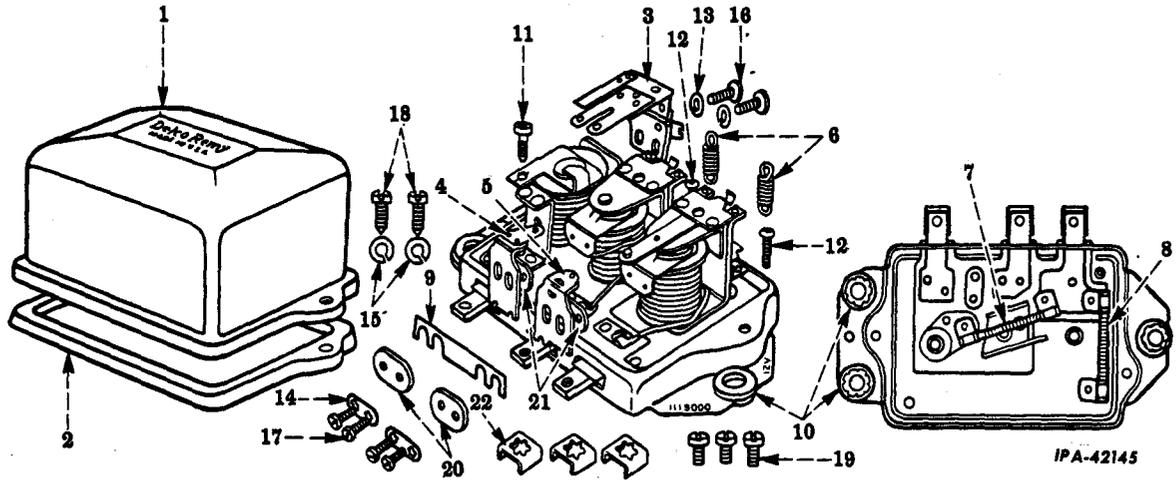
REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
10	1878505	WASHER, regulator contact attaching screw lock
11	1878517	CONTACT and SUPPORT, regulator
12	1878780 454431 1904377	ARMATURE, relay SCREW, relay armature (2) WASHER, relay armature attaching screw lock (2)
13	1912176	SPRING, regulator armature
14	1922408	SCREW, regulator armature adjusting
15	1922599	INSULATOR, regulator contact attaching screw
16	1927975	LEAD, ground
17	1910174	RESISTOR, "F" terminal to ground

Always Give VOLTAGE REGULATOR NUMBER When Ordering Parts.



ELECTRICAL SYSTEM

VOLTAGE REGULATOR
(Delco-Remy) (for use with negative grounded battery)



ELECTRICAL SYSTEM

VOLTAGE REGULATOR - CONTINUED
(Delco-Remy) (for use with negative grounded battery)

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
	1118999	REGULATOR, voltage
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

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
11	1912159	SCREW, adjusting, relay armature
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)

ELECTRICAL SYSTEM



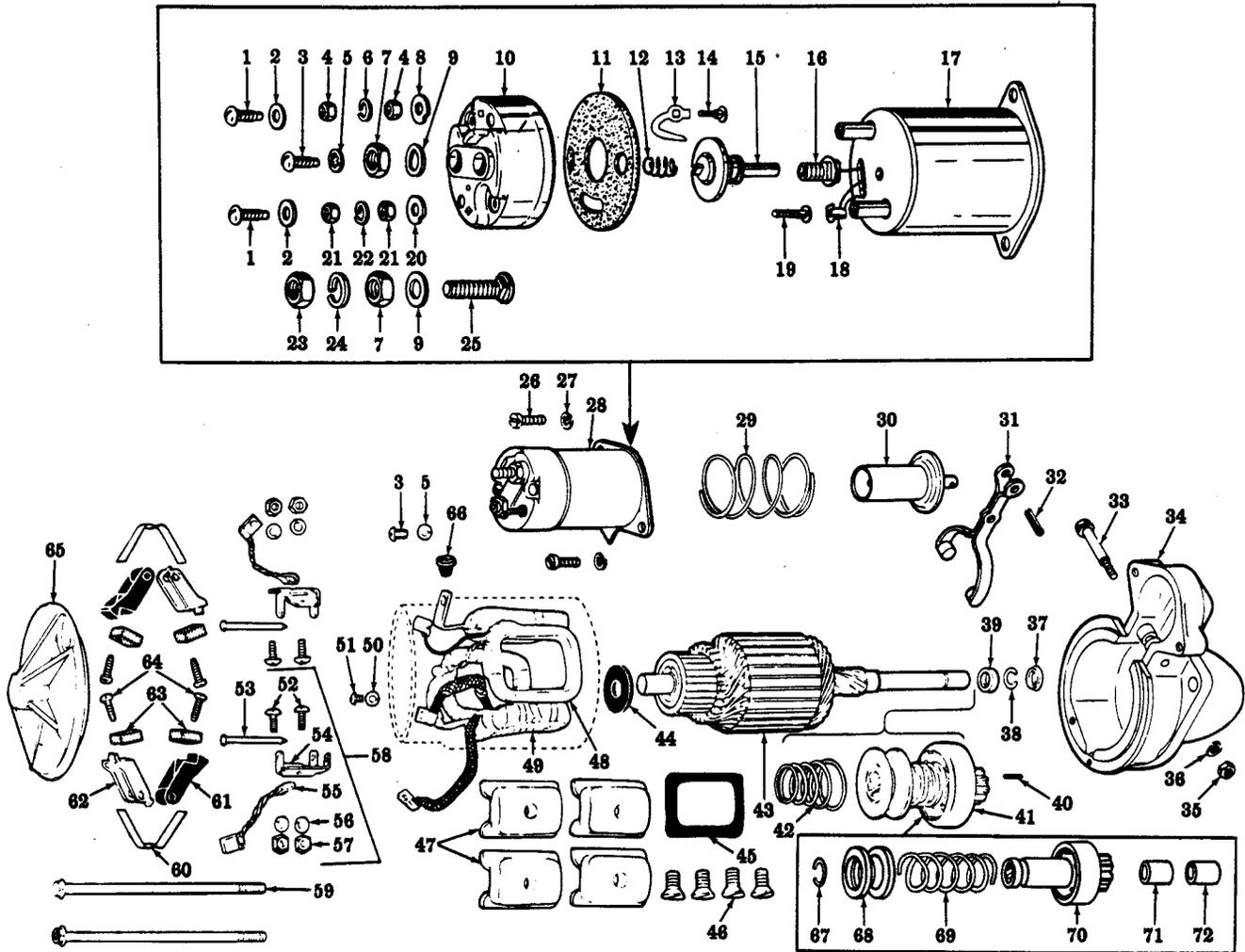
CRANKING MOTOR

(Delco-Remy No. 1107679 and 1107734)

ELECTRICAL SYSTEM

CRANKING MOTOR - CONTINUED

(Delco-Remy No. 1107679 and 1107734)



PA-442998

REF. NO.	MFR'S. NUMBER	DESCRIPTION
		Parts without letters after the description indicate the part is used for all CRANKING MOTORS listed below. Letters A and B are used to identify separate CRANKING MOTORS.
A -	1107679	MOTOR ASSEMBLY, cranking (Used with S. A. E. No. 4 Flywheel Housing) 1/2 x 1-1/4 hex-hd. cap SCREW (2) 1/2" lock WASHER (2)
B -	1107734	MOTOR ASSEMBLY, cranking (Used with S. A. E. No. 3 Flywheel Housing) (order 1107350) 3/8 x 1-1/4" hex-hd. cap SCREW (3) 3/8" lock WASHER (3)

REF. NO.	MFR'S. NUMBER	DESCRIPTION
1	132 903	SCREW, No. 10NF x 7/16" slt-rd-hd (2)
2	1923935	WASHER, cover attaching screw (2)
3	1928679	SCREW, field lead attaching (for LPG engines) (Unit A)
3	1944656	SCREW, rd-hd No. 10NF x 1/2 (for gasoline engines) (Unit A)
3		SCREW, field lead attaching (Unit B)
4		NUT, No. 10NF ("R" terminal) (2)
5		WASHER, No. 10 internal lock
6		WASHER, No. 10 medium lock
7		NUT, 3/8" hex.

Always Give CRANKING MOTOR NUMBER When Ordering Parts



ELECTRICAL SYSTEM

REF. NO.	MFR'S. NUMBER	DESCRIPTION
CRANKING MOTOR - CONTINUED (Delco-Remy No. 1107679 and 1107734)		
8	1923935	WASHER, insulating ("R" terminal)
9	1927345	WASHER, insulating (terminal stud) (2)
10	1935643	COVER, switch
11		Not Used
12	1853342	SPRING, contact return
13	1935645	CLIP ("R" terminal)
14	1935644	STUD ("R" terminal) 10NF
15	1932243	CONTACT w/PUSH ROD
16	1932242	STUD, 3/8" terminal
17		Not Furnished Separately
18	1937381	CLIP ("S" terminal)
19	1837533	STUD ("S" terminal)
20	1926969	WASHER, insulating ("S" terminal)
21		NUT, No. 8 ("S" terminal) (2)
22	1904615	WASHER, No. 8 lock
23	802258	NUT, 3/8" (2)
24		WASHER, 3/8" lock
25	1927344	STUD, 3/8" terminal
26	132255	SCREW, 1/4 x 1/2" fil-hd (2)
27		WASHER, 1/4" lock (2)
28	1119936	SWITCH ASSEMBLY
29	1932208	SPRING, plunger return
30	1932200	PLUNGER, solenoid switch
31	1932205	LEVER, shift
32	1932204	PIN, shift lever (Unit A)
32	455106	PIN, shift lever (Unit B)
33	1932197	STUD, shift lever
34	1937984	HOUSING, drive end (Unit A)
	1923907	BUSHING, drive end (Unit A)
34	1945288	HOUSING w/BUSHING, 1839345, drive (Unit B)
	1839345	BUSHING, drive end (Unit B)
35	1926640	NUT, shift lever stud
36		WASHER, 5/16" lock
37	1927850	COLLAR, drive end spacing (Unit A)
37	1928023	COLLAR, drive end spacing (Unit B)
38	1927848	RING, pinion stop retainer snap (drive end) (Unit A)
38	1928022	RING, pinion stop retainer snap (drive end) (Unit B)
39	1927849	COLLAR, pinion stop (drive end) (Unit A)
39	1928021	COLLAR, pinion stop (drive end) (Unit B)
40	809593	PIN, dowel (drive end)
41	1937975	DRIVE ASSEMBLY, motor (Unit A)
41	1929402	DRIVE ASSEMBLY, motor (Unit B)
42	1932209	SPRING, shift lever assist (Unit A)
42	1938171	SPRING, shift lever assist (Unit B)
43	1932185	ARMATURE (Unit A)
43	1938178	ARMATURE (Unit B)
44	818265	WASHER, commutator end spacing
45	1927853	INSULATION, field coil (4)
46	1843646	SCREW, pole shoe (4)
47	1926616	SHOE, pole (4)
48	1935131	COIL, field (Unit A)
49	1935128	COIL, field (Unit A)
49	1933761	COIL, field (4 coils) (Unit B)



ELECTRICAL SYSTEM

REF. NO.	MFR'S. NUMBER	DESCRIPTION
CRANKING MOTOR- CONTINUED (Delco-Remy No. 1107679 and 1107734)		
50		WASHER, No. 8 lock (Unit A)
51	1929443	SCREW, field lead to ground (Unit A)
52		SCREW, No. 10 x 1/2" slit-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 hex. (4)
58	1928015	KIT, brush-holder support (2)
59	1926625	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 for Unit A)
64	274260	SCREW, brush attaching (4 for Unit B)
65	1928966	FRAME, commutator end
66	1935168	GROMMET, lead (in field frame) (Unit A)
66	1933765	GROMMET, lead (in field frame) (Unit B)
67	37521	RING, snap
68	1838436	COLLAR, motor drive
69	1932196	SPRING, motor drive (Unit A)
69	1931477	SPRING, motor drive (Unit B)
70		GEAR (not furnished separately)
71	1923904	BUSHING, oilless (Unit A)
71	1873796	BUSHING, oilless (Unit B)
72	1924732	BUSHING, nylon (Unit A)
72	37522	BUSHING, split steel (Unit B)
	274545	WASHER, connector attaching screw lock (Unit B)
	1944656	SCREW, field lead to switch attaching (Unit B)

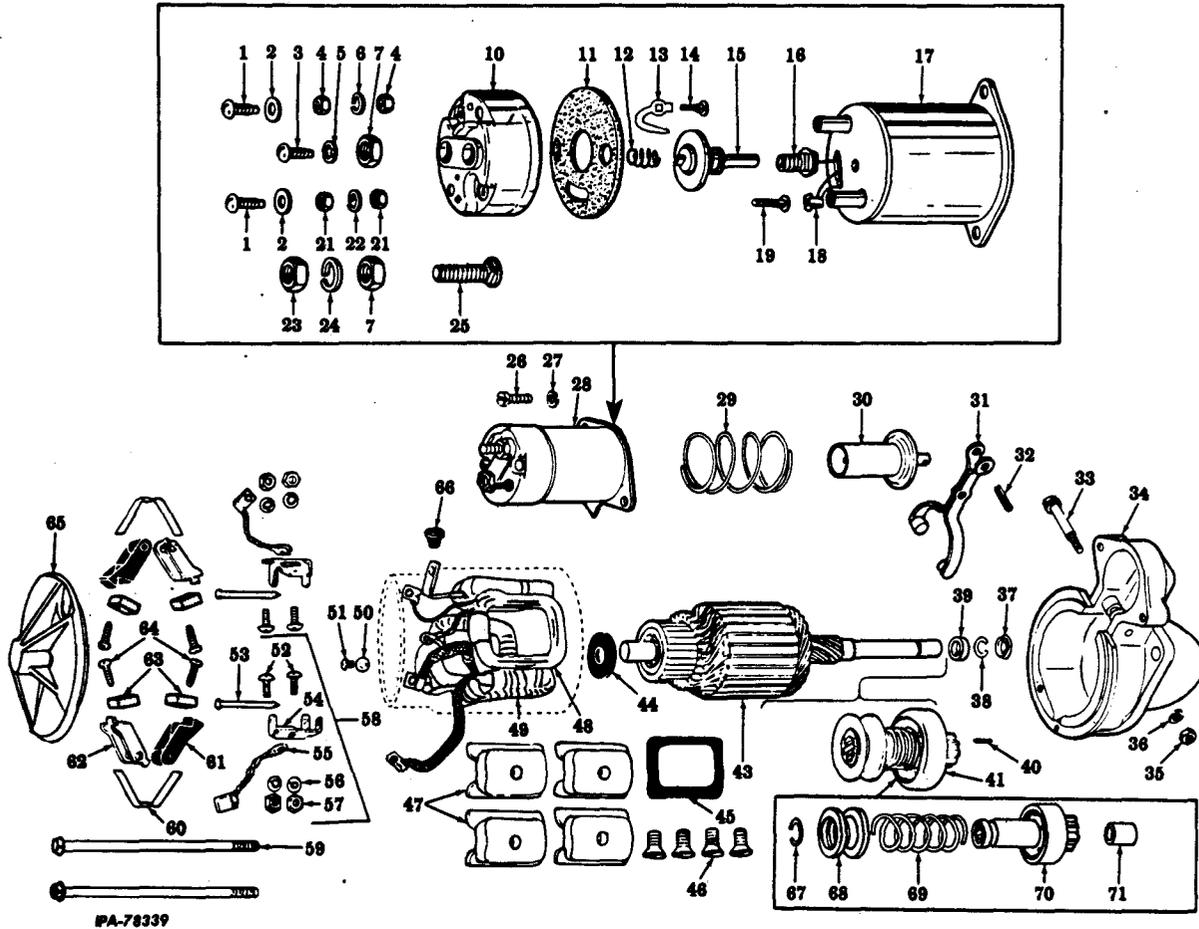
Always Give CRANKING MOTOR NUMBER When Ordering Parts.

ELECTRICAL SYSTEM

CRANKING MOTOR
(Delco-Remy No. 1107350)

ELECTRICAL SYSTEM

CRANKING MOTOR - CONTINUED
(Delco-Remy No. 1107350)



PA-78339

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
	1107350	MOTOR ASSY, cranking (Used with S. A. E. No. 3 Flywheel Housing.) (Will work For 1107734) 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
1		SCREW, No. 10NF x 7/16" slit-rd-hd (2)
2	1923935	WASHER, cover attaching screw (2)
3	1949653	SCREW, field lead attaching
4		NUT, No. 10NF ("R" terminal) (2)
5		WASHER, No. 10 internal lock
6	1946143	WASHER, lock
7		NUT, 3/8" (2)
10	1963525	COVER, switch

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
11	1950070	INSULATOR, cover
12	1853342	SPRING, contact return
13	1935645	CONTACT ("R" terminal)
14	1950069	STUD ("R" terminal) No. 10N.
15	1956226	CONTACT w/PUSH ROD
16	1950120	STUD, 3/8" terminal
17		Not Furnished Separately
18	1949538	CLIP ("S" terminal)
19	1950069	STUD ("S" terminal)
21		NUT, No. 10NF ("S" terminal) (2)
22	1946143	WASHER, lock
23	1904419	NUT, 3/8" (2)
24		WASHER, 3/8" lock
Always Give CRANKING MOTOR NUMBER When Ordering Parts.		



ELECTRICAL SYSTEM

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
CRANKING MOTOR - CONTINUED (Delco-Remy No. 1107350)		
25	1950061	STUD, 3/8" terminal
26		SCREW, 1/4 x 1/2" slt-rd-hd (2)
27		WASHER, 1/4" lock (2)
28	114356	SWITCH ASSY
29	1958679	SPRING, plunger return
30	1953041	PLUNGER, solenoid switch
31	1932205	LEVER, shift
32	455106	PIN, shift lever
33	1932197	STUD, shift lever
34	1950306 1862383	HOUSING w/BUSHING, 1862383, drive BUSHING, 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	INSULATOR, 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)
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

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ELECTRICAL SYSTEM

REF. NO.	DELCO-REMY NUMBER	DESCRIPTION
CRANKING MOTOR - CONTINUED (Delco-Remy No. 1107350)		
66	1935168	GROMMET, lead (in field frame)
67	37521	RING, snap
68	1838436	COLLAR, motor drive
69	1931477	SPRING, motor drive
70		GEAR (Not Furnished Separately)
71	1873796	BUSHING, oilless
	820148	BUSHING, center bearing
	1952427	GASKET (between switch and housing)
	820149	PLATE, center bearing
	125947	PLUG, 1/8" pipe (drive end)
	821 453	WASHER (between center bearing and motor drive)
	1909560	WICK (drive end)
Always Give CRANKING MOTOR NUMBER When Ordering Parts.		

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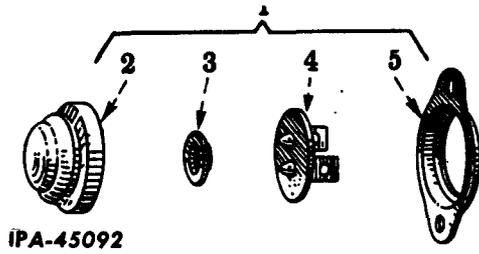


ELECTRICAL SYSTEM



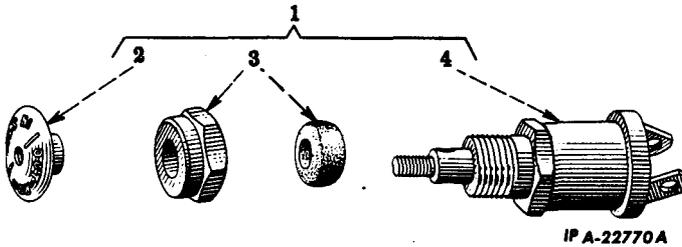
MEMORANDA

STARTING SWITCH (Push Button)



REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	366 317 R91	SWITCH ASSEMBLY, push button starting (part of INSTRUMENTS and PANEL ATTACHMENTS)
2		BODY, starting switch (NFS)
3		PLATE, starting switch (NFS)
4		BASE w/two SCREWS, 64 022 H, terminal starting switch (NFS)
	64 022 H	SCREW, starting switch terminal base (2) No. 8 cd-pltd. lock WASHER (2)
5		BRACKET, starting switch (NFS) No. 10NF cd-pltd. sq. NUT (2) No. 10NF x 7/16" slit-rd-hd. cd-pltd. mach. SCREW (2) No. 10 cd-pltd. lock WASHER (2)

IGNITION PUSH-PULL SWITCH



REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	62 801 DC	SWITCH ASSEMBLY, push-pull battery ignition (part of INSTRUMENTS and PANEL ATTACHMENTS)
	64 022 H	SCREW, No. 8 x 5/16" slt. special hd. cd-pltd. (2) No. 8 cd-pltd. lock WASHER (2)
2		KNOB, switch (NFS) No. 10 cd-pltd. lock WASHER
3		NUT, w/SEAL, mounting switch (NFS) 9/16" internal-tooth cd-pltd. lock WASHER
4		SWITCH, push-pull ignition (order 62 801 DC)
	59 109 D	SPACER, battery ignition switch
		NFS - Not Furnished Separately.



MEMORANDA



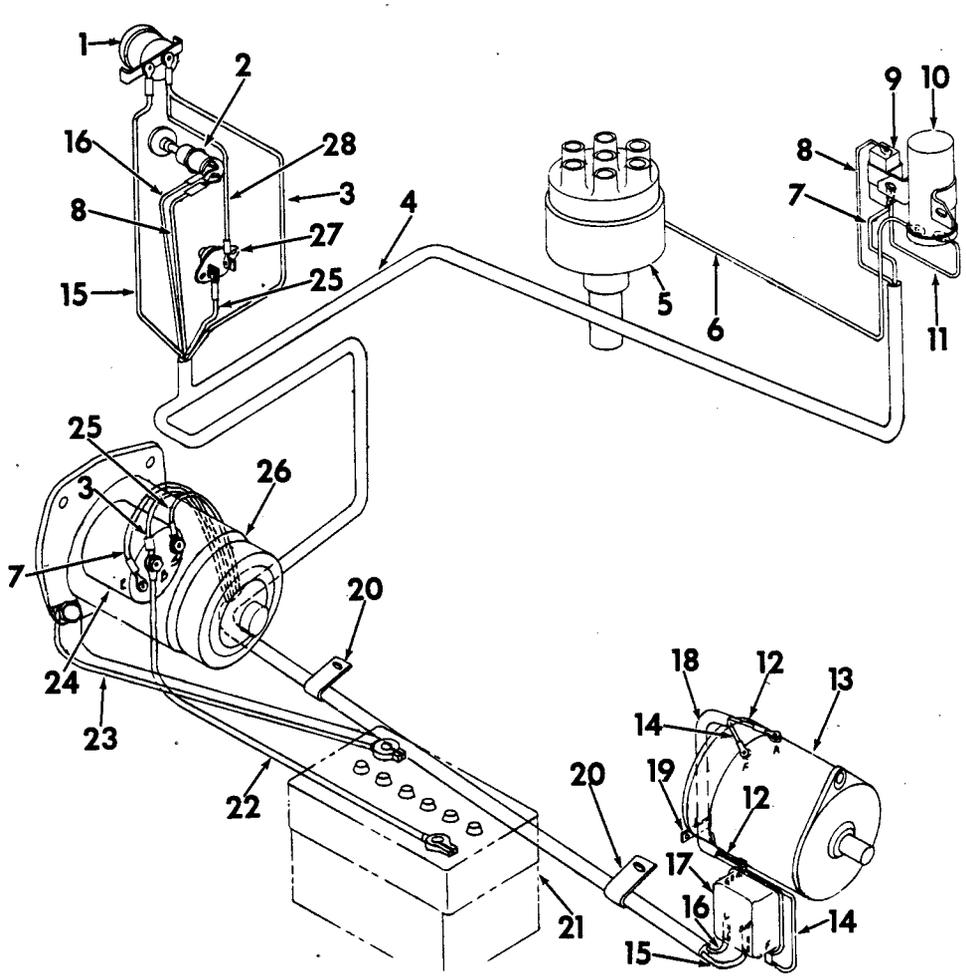
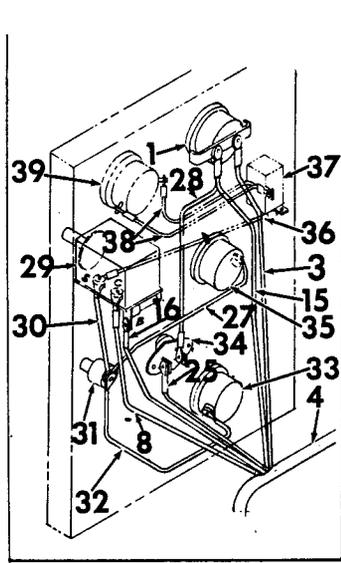
MEMORANDA



ELECTRICAL SYSTEM

WIRING DIAGRAM

(12 Volt) (For units equipped with Instrument and Panel Attachments 305 639 R91, 305 678 R91, 306 423 R91, 308 240 R91, 308 241 R91, 308 242 R91, 308 246 R91 and 308 247 R91, and Vacuum Safety Shut-Off Attachment, 306 761 R91)



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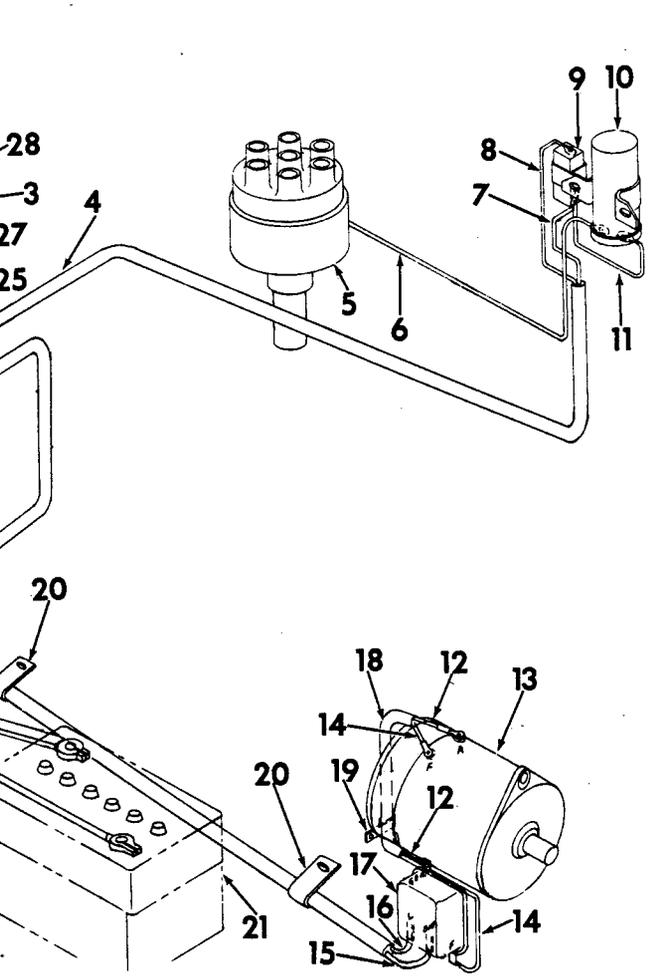
REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	269 103 R91	AMMETER
2	62 801 DC	SWITCH, ignition (for components see list of parts under details of "Ignition Push-Pull Switch") (X)
3		CABLE, plus (+) on ammeter to "B" on solenoid (negative ground) or minus (-) on ammeter to "B" on solenoid (positive ground) (red) (order 305 636 R91 for Instruments and Panel w/Regular GAUGES or 312 560 R91 for Instruments and Panel w/Safety GAUGES)
4	305 636 R91	HARNES, ignition cable (.)
4	305 636 R91	HARNES, ignition cable (X).
5		DISTRIBUTOR (for components see list of parts under details of "Distributor")



ELECTRICAL SYSTEM

WIRING DIAGRAM - CONTINUED

(12 Volt) (For units equipped with Instrument and Panel Attachments, 305 639 R91, 305 678 R91, 306 423 R91, 308 240 R91, 308 241 R91, 308 242 R91, 308 246 R91 and 308 247 R91 and Vacuum Safety Shut-Off Attachment, 306 761 R91)



REF. NO.	I. H. PART NUMBER	DESCRIPTION
6	69 700 R91	CABLE, minus (-) on coil to distributor (low tension) (also listed and illustrated with "Distributor, Coil and Related Parts")
7		CABLE, "R" on solenoid to resistor (brown) (order 305 636 R91 for Instruments and Panel w/Regular GAUGES or 312 560 R91 for Instruments and Panel w/Safety GAUGES)
		(X) - Part Of Instrument And Panel Attachments (Regular Gauges) 305 678 R91, 306 423 R91, 308 246 R91 And 308 247 R91.
		(.) - Part Of Instruments And Panel Attachments (Safety Gauges) 305 639 R91, 308 240 R91, 308 241 R91 And 308 247 R91.
		(*) - Part Of Vacuum Safety Shut-Off Attachment, 306 761 R91.



ELECTRICAL SYSTEM

REF. NO.	I. H. PART NUMBER	DESCRIPTION
WIRING DIAGRAM - CONTINUED (12 Volt) (For units Equipped with Instrument and Panel Attachments, 305 639 R91, 305 678 R91, 306 423 R91, 308 240 R91, 308 241 R91, 308 242 R91, 308 246 R91 and 308 247 R91, and Vacuum Safety Shut-Off Attachment, 306 761 R91)		
8		CABLE, ignition switch to resistor (orange) (order 305 636 R91)
8		CABLE, "C" on relay to resistor (orange) (order 312 560 R91)
9		RESISTOR (also listed and illustrated with "Distributor, Coil and Related Parts")
10	165 518 R91	COIL w/CLAMP, ignition (also listed and illustrated with "Distributor, Coil and Related Parts")
11	370 594 R91	CABLE, plus (+) on coil to resistor (negative ground) (or minus (-) on coil to resistor (positive ground) (also listed and illustrated with "Spark Plugs and Cables")
12		CABLE, generator "A" to "Gen" on regulator (red w/black tracer) (order 264 637 R93)
13		GENERATOR (for components see list of parts under details of "Generator")
14		CABLE, generator "F" to "F" on regulator (black w/red tracer) (order 264 637 R93)
15		CABLE, minus (-) on ammeter to "B" on voltage regulator (negative ground) or plus (+) on ammeter to "B" on voltage regulator (positive ground) (blue) (order 305 636 R91 for Instruments and Panel w/Regular GAUGES or 312 560 R91 for Instruments and Panel w/Safety GAUGES)
16		CABLE, ignition switch to "L" on voltage regulator (yellow) (order 305 636 R91)
16		CABLE, "B" on relay to "L" on voltage regulator (yellow) (order 312 560 R91)
17		REGULATOR, voltage (for positive grounded battery) (for components see list of parts under details of "Voltage Regulator")
17		REGULATOR, voltage (for negative grounded battery) (for components see list of parts under details of "Voltage Regulator")
18	264 637 R93	HARNES, generator to regulator cable (also listed and illustrated with "Generator and Connections")
19	263 515 R91	CLIP, cable harness (mount on rear generator bracket mounting bolt)
20	263 515 R91	CLIP, cable harness (mount on rear and seventh from the rear oil pan bolt) (2) (X) (.)
21		BATTERY (12 volt) (not furnished with power unit)
22		CABLE, battery to "B" on solenoid (not furnished with power unit)
23		CABLE, battery ground (mount on cranking motor mounting bolt) (not furnished with power unit)
24		SOLENOID (Delco-Remy No. 1119936) (for components see list of parts under details of "Cranking Motor")
25		CABLE, starting switch to "S" on solenoid (green) (order 305 636 R91 for Instruments and Panel w/Regular GAUGES or 312 560 R91 for Instruments and Panel w/Safety GAUGES)



ELECTRICAL SYSTEM

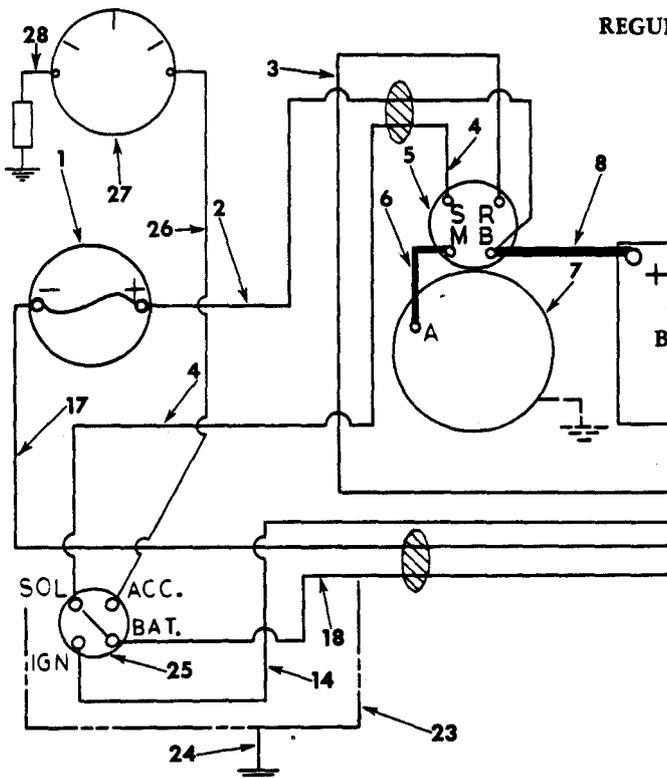
REF. NO.	I. H. PART NUMBER	DESCRIPTION
WIRING DIAGRAM - CONTINUED (12 Volt) (For units equipped with Instrument and Panel Attachments, 305 639 R91, 305 678 R91, 306 423 R91, 308 240 R91, 308 241 R91, 308 242 R91, 308 246 R91 and 308 247 R91 and Vacuum Safety Shut-Off Attachment, 306 761 R91)		
26		MOTOR, cranking (for S. A. E. No. 4 Flywheel Housing) (for components see list of parts under details of Cranking Motor")
26		MOTOR, cranking (for S. A. E. No. 3 Flywheel Housing) (for components see list of parts under details of "Cranking Motor")
27	366 317 R91	SWITCH, starting (for components see list of parts under details of "Starting Switch") (X) (.)
28		CABLE, plus (+) on ammeter to starting switch (negative ground) or minus (-) on ammeter to starting switch (positive ground) (red) (order 305 636 R91 for Instruments and Panel w/Regular GAUGES or 312 560 R91 for Instruments and Panel w/Safety GAUGES)
29	265 470 R91	RELAY (.)
30		CABLE, "S" on relay to stop switch (furnished as part of Switch, 265 471 R91)
31	265 471 R91	SWITCH, stop (.)
32		CABLE, stop switch to safety heat indicator (furnished as part of 265 468 R91)
33	265 468 R91	INDICATOR w/WIRE, safety heat (.)
34		CABLE, stop switch to oil pressure indicator (furnished as part of oil pressure indicator, 268 542 R91)
35	268 542 R91	GAUGE w/WIRE, safety oil pressure (.)
36	274 747 R91	CABLE, toggle switch to relay (*)
37	253 818 R91	SWITCH, vacuum gauge toggle (*)
38		CABLE, vacuum gauge to vacuum gauge toggle switch (furnished as part of vacuum gauge, 253 799 R91)
39	253 799 R91	GAUGE w/WIRES, vacuum safety (*)
		(X) - Part Of Instruments And Panel Attachments (Regular Gauges) 305 678 R91, 306 423 R91, and 308 246 R91 And 308 247 R91.
		(.) - Part Of Instruments And Panel Attachments (Safety Gauges) 305 639 R91, 308 240 R91, 308 241 R91 And 308 242 R91.
		(*) - Part Of Vacuum Safety Shut-off Attachments, 306 761 R91.



ELECTRICAL SYSTEM

WIRING DIAGRAM

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



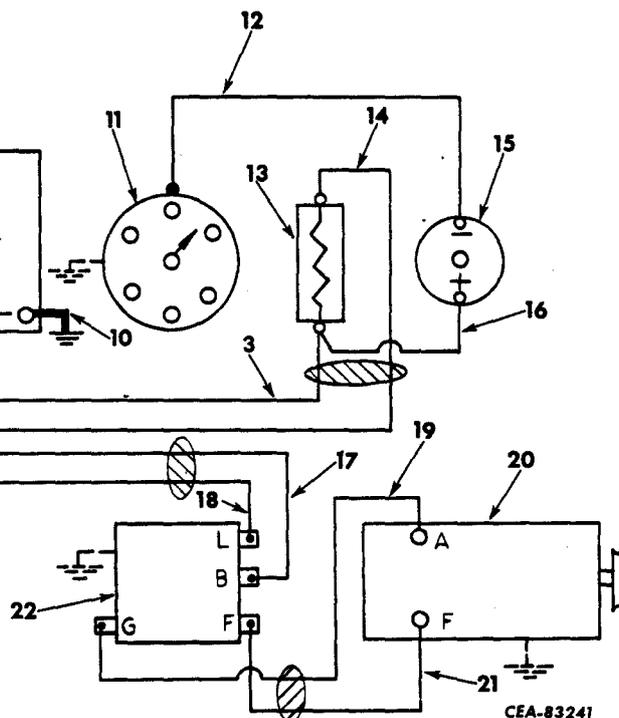
REGULAR SYSTEM



ELECTRICAL SYSTEM

WIRING DIAGRAM - CONTINUED

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



REF. NO.	I.H. PART NUMBER	DESCRIPTION
1	269 103 R91	AMMETER (part of ATTACHMENT, 349 132 R91)
2		CABLE, plus (+) on ammeter to "B" on solenoid (order 349 128 R91)
3		CABLE, "R" on solenoid to resistor (order 349 129 R91)
4		CABLE, "S" on solenoid to "SOL" on ignition and starter switch (order 349 128 R91)
5		SOLENOID (furnished as part of "Cranking Motor")
6		CONNECTOR, cranking motor to "M" on solenoid (furnished as part of "Cranking Motor")
7		MOTOR ASSY, cranking (for components see list of parts under details of "Cranking Motor")
8		CABLE, cranking motor to battery (not furnished with power unit)
9		BATTERY (12 volt) (not furnished with power unit)
10		CABLE, battery to ground (not furnished with power unit)
11		DISTRIBUTOR ASSY (for components see list of parts under details of "Distributor")

REF. NO.	I.H. PART NUMBER	DESCRIPTION
12	69 700 R91	CABLE, minus on coil to distributor
13		RESISTOR, ignition coil (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
14		CABLE, resistor to "IGN" on ignition and starter switch (for 349 129 R91)
15	151 314 R91	COIL w/CLAMP, ignition (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
16	370 594 R91	CABLE, plug (+) on coil to resistor (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
17		CABLE, "B" on regulator to minus (-) on ammeter (order 349 130 R91)
18		CABLE, "L" on regulator to "BAT" on ignition and starter switch (order 349 130 R91)
19		CABLE, "G" on regulator to "A" on generator (order 264 637 R93)
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)



ELECTRICAL SYSTEM



MEMORANDA

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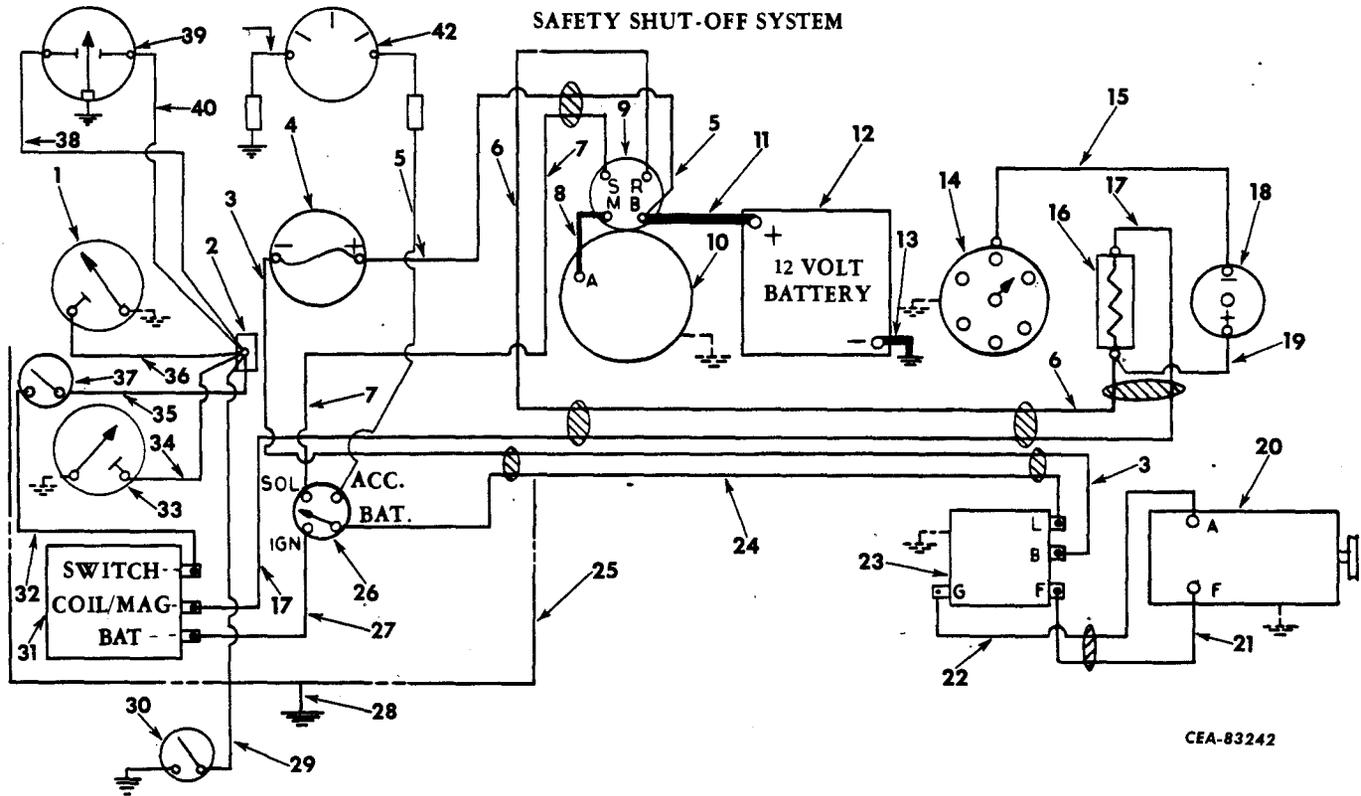
WIRING DIAGRAM - CONTINUED
 (For units with instruments and instrument panel (regular gauges)
 Attachment, 349 132 R91)

22		REGULATOR, voltage (12 volt) (for components see list of parts under details of "Voltage Regulator")
23	337 354 R3	PANEL, instrument (part of ATTACHMENT, 349 132 R91)
24		CABLE, instrument panel ground (Not used on units with instruments and instrument panel (regular gauges))
25	327 144 R91	SWITCH, ignition and starter (part of ATTACHMENT, 349 132 R91)
26		CABLE, tachourmeter to "ACC" on ignition and starter switch (furnished as part of hourmeter or tachourmeter)
27		TACHOURMETER (part of ATTACHMENT, 349 135 R92)
27		HOURMETER, electric (part of ATTACHMENT, 349 136 R91)
28		CABLE, tachourmeter to ground (furnished as part of hourmeter or tachourmeter)
	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

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



CEA-83242

REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	347 604 R91	INDICATOR, safety oil pressure (part of ATTACHMENT, 349 133 R91)
2	42 915 D	BLOCK, junction (part of ATTACHMENT, 349 133 R91)
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)
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
3		CABLE, "B" on regulator to minus (-) on ammeter (order 349 130 R91)
4	269 103 R91	AMMETER (part of ATTACHMENT, 349 133 R91)
5		CABLE, plus (+) on ammeter to "B" on solenoid (order 349 128 R91)
6		CABLE, "R" on solenoid to resistor (order 349 129 R91)
7		CABLE, "S" on solenoid to "SOL" on ignition and starter switch (order 349 128 R91)



ELECTRICAL SYSTEM

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

REF. NO.	I. H. PART NUMBER	DESCRIPTION
8		CONNECTOR, cranking motor to "M" on solenoid (furnished as part of "Cranking Motor")
9		SOLENOID (furnished as part of "Cranking Motor")
10		MOTOR ASSY, cranking (for components see list of parts under details of "Cranking Motor")
11		CABLE, cranking motor to battery (not furnished with power unit)
12		BATTERY (12 volt) (not furnished with power unit)
13		CABLE, battery to ground (not furnished with power unit)
14		DISTRIBUTOR ASSY (for components see list of parts under details of "Distributor")
15	69 700 R91	CABLE, minus on coil to distributor
16		RESISTOR, ignition coil (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
17		CABLE, resistor to "IGN" on ignition and starter switch (order 349 129 R91)



ELECTRICAL SYSTEM

REF. NO.	I.H. PART NUMBER	DESCRIPTION
WIRING DIAGRAM - CONTINUED (For units with instruments and instrument panel (safety gauges) Attachment, 349 133 R91)		
18	151 314 R91	COIL w/CLAMP, ignition (also listed and illustrated with "Spark Plugs, Coil, Cables and Distributor")
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 R3	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 (part of ATTACHMENT, 345 346 R91)
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)
38		CABLE, vacuum gauge to junction block (Furnished as part of vacuum gauge)
39	347 605 R91	GAUGE, vacuum (part of ATTACHMENT, 349 214 R91)

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ELECTRICAL SYSTEM

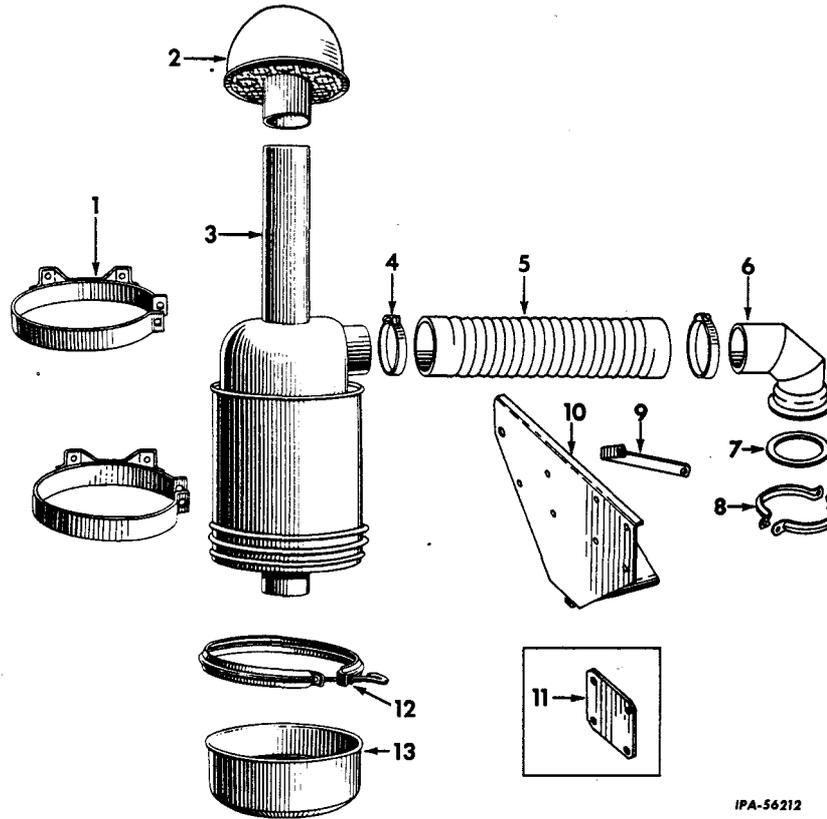
REF. NO.	I.H. PART NUMBER	DESCRIPTION
WIRING DIAGRAM - CONTINUED (For Units with instruments and instrument panel (safety gauges) Attachment, 349 133 R91)		
40		CABLE, vacuum gauge to junction block (Furnished as part of vacuum gauge)
41		CABLE, tachourmeter to ground (Furnished as part of hourmeter or tachourmeter)
42		TACHOURMETER (part of ATTACHMENT, 349 135 R92)
42		HOURMETER, electric (part of ATTACHMENT, 349 136 R91)
43		CABLE, tachourmeter to junction block (Furnished as part of hourmeter or tachourmeter)
	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)

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ATTACHMENTS

AIR CLEANER AND CONNECTIONS
(Donaldson) (Heavy Duty-Wet Type)



IPA-56212

REF. NO.	I.H. PART NUMBER	DESCRIPTION
		Parts without letters after the description indicate the part is used for all Attachments listed below: Letters A, B and C are used to identify separate Attachments.
A	305 625 R91	ATTACHMENT, air cleaner (heavy duty) (for use without hood and dash Attachment) (*)
B	306 421 R91	ATTACHMENT, air cleaner (heavy duty) (for use with hood and dash attachment) (*)
C	349 220 R91	ATTACHMENT, air cleaner (see NOTES 1 and 3)
1	55 804 DX	BRACKET w/BAND, air cleaner (2) 3/8" NUT (4) 5/16" NUT (2 for Attachments A and B) 3/8 x 7/8" hex-hd cap SCREW (4) 5/16 x 1-1/4" slt-fil-hd cap SCREW (2 for Attachments A and B) 3/8" lock WASHER (4) 5/16" lock WASHER (2 for Attachments A and B) 3/8 x 1" hex-hd cap SCREW (Attachment C)
2	353 018 R92	CAP, air intake
3	305 626 R91	CLEANER w/BODY, CLAMP, 54 269 DA and CUP, 355 444 R92 ASSY, air (FCA07-1437)
3		BODY (Nor Furnished Separately)
4	274 088 R91	CLAMP, air cleaner to carburetor flexible hose (2)



ATTACHMENTS

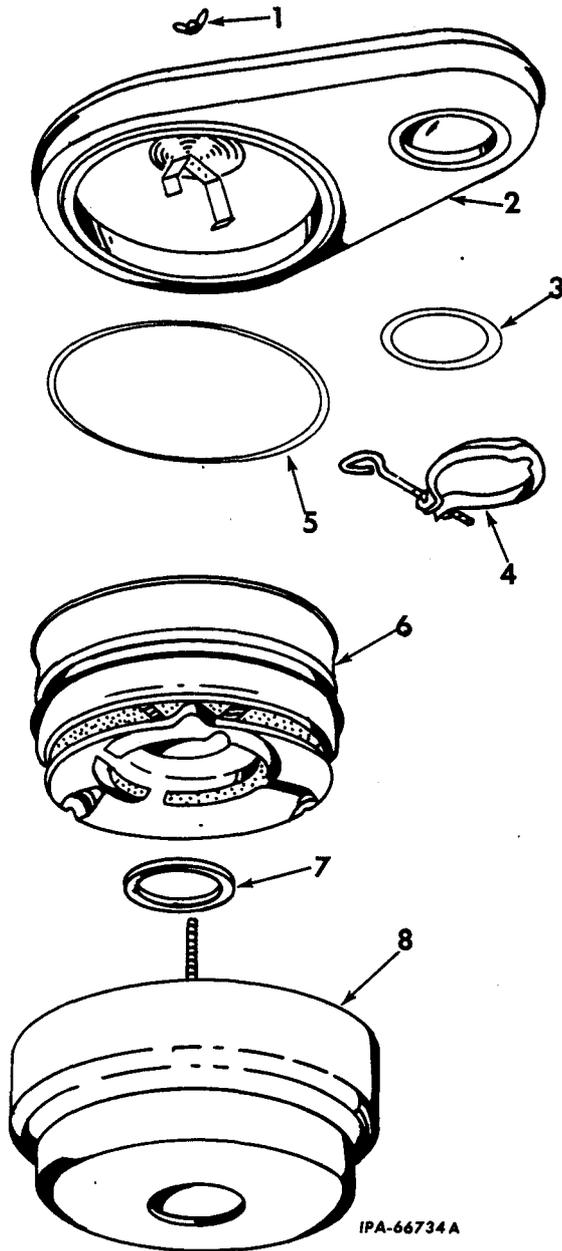
AIR CLEANER AND CONNECTIONS - CONTINUED
(Donaldson) (Heavy Duty-Wet Type)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
5	305 633 R1	HOSE, air cleaner to carburetor flexible (2-1/4" ID x 3/32" thick x 15-3/4" long) (Attachments A and B)
5	347 597 R1	HOSE, cleaner to carburetor (2-1/4" ID x 26" long) (Attachment C)
6	305 629 R91	ELBOW, carburetor air inlet
7	90 133 H	SEAL, carburetor air inlet elbow
8	90 134 H	CLAMP, carburetor air inlet elbow (2) No. 12NF sq NUT (2) No. 12NF x 7/8" slt-rd-hd SCREW (2)
9	.J5 634 R1	BRACE, air cleaner and instrument panel support (Attachment A)
9	349 218 R1	BRACE, air cleaner support (Attachment C) 5/16 x 5/8" hex-hd cap SCREW
10	349 139 R11	SUPPORT, air cleaner (Attachment C)
10	305 627 R11	SUPPORT w/GUSSET, air cleaner and instrument panel (Attachment A)
11	306 422 R1	PLATE, dash stiffener (at air cleaner) (Attachment B)
12	54 269 DA	CLAMP, oil cup retaining (P-3009)
13	355 444 R92	CUP, oil (P-14844)
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.
		* - Attachment No Longer Available. Service Parts Only Will Be Furnished.



ATTACHMENTS

AIR CLEANER AND CONNECTIONS (Fram Corp.) (Wet Type)



IPA-66734A



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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AIR CLEANER AND CONNECTIONS - CONTINUED (Fram Corp.) (Wet Type)

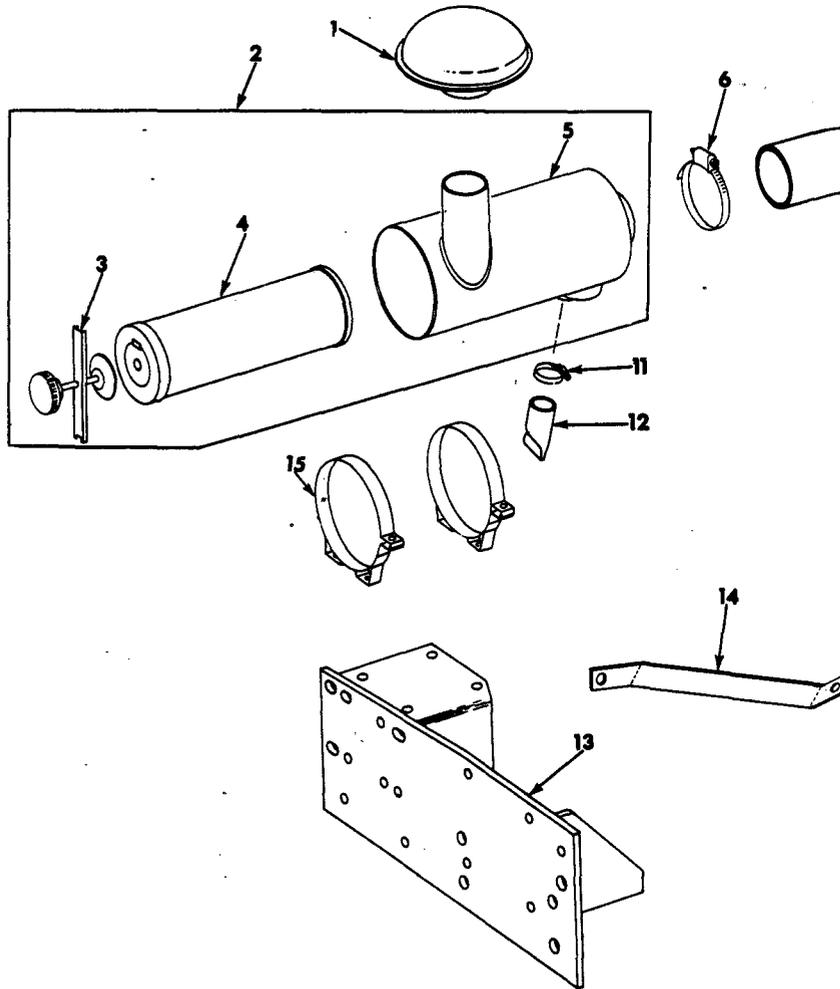
306 744 R91		ATTACHMENT, air cleaner (hat type) (for gasoline and high altitude gasoline engines) (†)
349 219 R91		ATTACHMENT, air cleaner (hat type) (for use with universal dash and rear shock mounted instrument panel) (See NOTES 1 and 3)
1	126 177	NUT, 1/4" wing (17646)
2		COVER (Not Furnished Separately)
3	90 133 H	SEAL, carburetor air inlet elbow
4	317 603 R91	CLAMP, cleaner (A-14095)
5	317 606 R1	GASKET, scrubber filter (17931)
6	317 605 R91	FILTER, scrubber (9302736)
7	149 812 R1	GASKET, oil cup (18388)
8	317 604 R91	CUP, cleaner oil (136065)
323 867 R11		BRACE, air cleaner 5/16 x 3/4" hex-hd cap SCREW 5/16" lock WASHER
349 218 R1		BRACE, dash support (part of ATTACHMENT, 349 219 R91) 5/16 x 1" hex-hd cap SCREW 3/8 x 1" hex-hd cap SCREW
349 139 R11		SUPPORT, dash
306 748 R91		CLEANER ASSY, air (wet-type) (Fram No. 133638) (Composed of -
	1	CLAMP 317 603 R91
	1	CUP 317 604 R91
	1	FILTER 317 605 R91
	1	GASKET 317 606 R1
	1	GASKET 149 812 R1
	1	NUT 126 177)

NOTE 1 - Factory Application - Order On Machine Order Form.
NOTE 3 - Field Application - Order Through Regular Service Parts Channels.
† - Attachment No Longer Available. Service Parts Only Will Be Furnished.



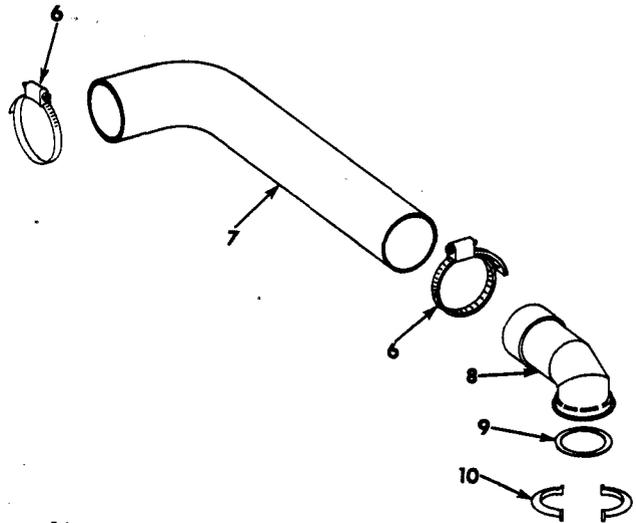
ATTACHMENTS

AIR CLEANER AND CONNECTIONS (Unit Specialties) (Dry-Type)



ATTACHMENTS

AIR CLEANER AND CONNECTIONS - CONTINUED (United Specialties) (Dry-Type)



CEA-83416

REF. NO.	I.M. PART NUMBER	DESCRIPTION
	349 215 R91	ATTACHMENT, air cleaner and connections (for use with universal dash) (See NOTES 1 and 3)
1	353 018 R92	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	343 666 R1	HOSE, air inlet
8	341 363 R91	ELBOW, carburetor air inlet
9	90 133 H	SEAL, carburetor air inlet
10	90 134 H	CLAMP, inlet elbow (2) No. 12-24 sq- NUT (2) No. 12-24 x 7/8" slt-rd-hd cap SCREW (2)

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(REV. NO. 2 1-67)

REF. NO.	I.M. PART NUMBER	DESCRIPTION
11	122 316 R91	CLAMP, dust unloader
12	324 194 R1	UNLOADER, dust
13	349 216 R91	SUPPORT, air cleaner
14	349 218 R1	BRACE, air cleaner support 3/8" NUT 3/8 x 7/8" hex-hd cap SCREW 5/16 x 7/8" hex-hd cap SCREW 3/8" lock WASHER
15	341 373 R91	BRACE, air cleaner mounting (2) 3/8" NUT (4) 3/8 x 3/4" 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.

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MEMORANDA



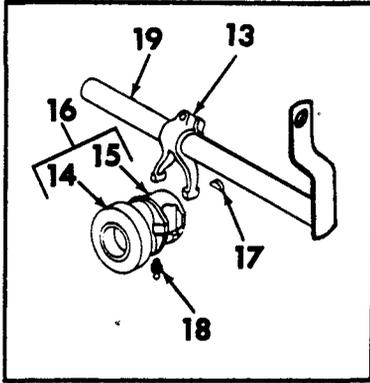
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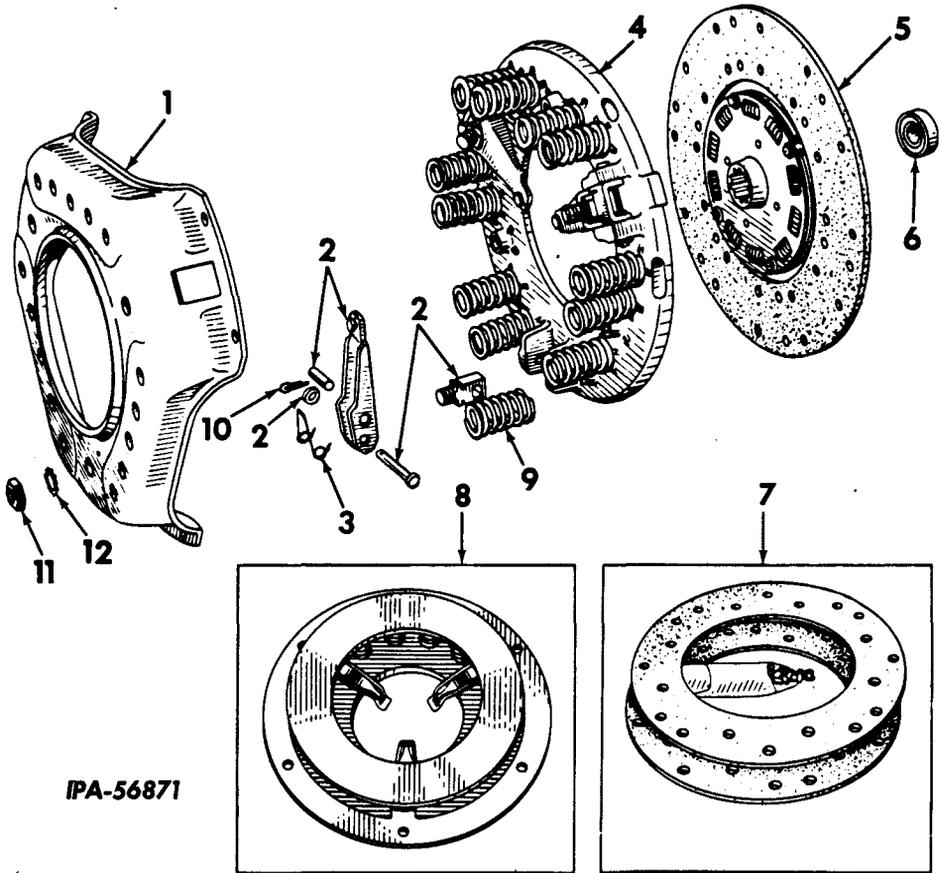
ATTACHMENTS

CLUTCH AND CONTROLS



ATTACHMENTS

CLUTCH AND CONTROLS - CONTINUED



IPA-56871

REF. NO.	I. H. PART NUMBER	DESCRIPTION
(X) - KEY TO UNITS		
A -	305 890 R91	ATTACHMENT, clutch and controls (with 11" spring loaded clutch) (for UB-220, UB-240 and UB-264 power units equipped with Motor Truck flywheel and flywheel housing) (See NOTES 1 and 3)
B -	305 891 R91	ATTACHMENT, clutch and controls (with 12" spring loaded clutch) (for UB-240 and UB-264 Power Units equipped with Motor Truck flywheel and flywheel housing) (See NOTES 1 and 3)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
(X) -		Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.
1	143 224 R1	PLATE, back (Unit A)
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
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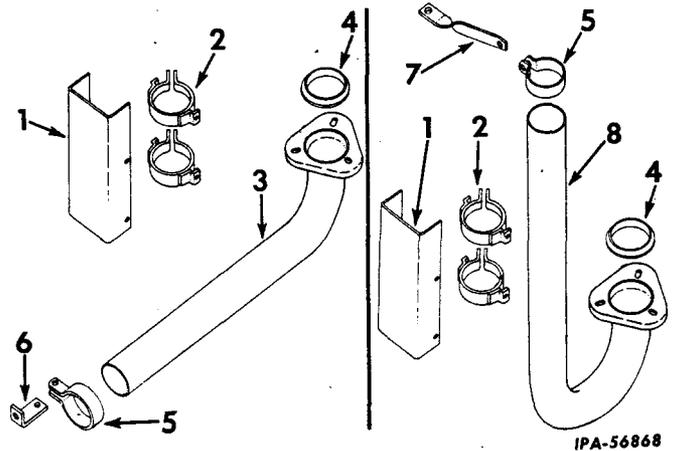
CLUTCH AND CONTROLS - CONTINUED

1	221 508 R1 73 092 R2	PLATE, back (Unit B) BOLT, clutch mounting (6) WASHER, 3/8" lock (6)
2	223 447 R91	KIT, lever ASSEMBLY (3)
3	189 726 R1	SPRING, anti-rattle (3)
4	199 816 R1 221 509 R1	PLATE, pressure (Unit A) PLATE, pressure (Unit B)
5	143 228 R91 149 499 R91	MEMBER, driven (11") (Unit A) MEMBER, driven (12") (Unit B)
6	ST 527	BEARING, clutch pilot (optional with ST 545) (Unit A)
6	ST 545	BEARING, clutch pilot (optional with ST 527) (Unit A)
6	ST 516	BEARING, clutch pilot (Unit B)
7	143 436 R91	FACINGS w/40 RIVETS, 143 271 R1, driven disc
8	223 444 R91 221 505 R91	PLATE, pressure (11") (Unit A) PLATE, pressure (12") (Unit B)
9	68 740 H	SPRING, pressure plate (12 for Unit A) (15 for Unit B)
10		PIN, 3/32 x 3/4" cottér (3)
11		NUT, 9/16NF iam (3)
12		WASHER, 9/16" external lock (3)
13	62 635 HD	FORK, clutch release (Unit A)
13	155 633 R1	FORK, clutch release (Unit B) 3/8NF NUT 3/8NF x 1-3/4" hex-hd. cap SCREW 3/8" lock WASHER
14	121 515 R91	BEARING, clutch release sleeve
15		SLEEVE (not furnished separately)
16	62 634 HDX	SLEEVE, release bearing (Unit A)
16	180 155 R11	SLEEVE, release bearing (Unit B)
17	112 139	KEY, clutch release fork (Woodruff No. A)
18	109 461	FITTING, clutch release shaft lubricator (Lincoln No. 5000) (optional with 138 322 H) (2)
18	138 322 H	FITTING, clutch release shaft lubricator (Alemite No. 1610B) (optional with 109 461) (2)
19	305 892 R91 305 893 R91 305 894 R1	SHAFT w/LEVER, clutch release (Unit A) SHAFT w/LEVER, clutch release (Unit B) CLIP, clutch return spring anchor (mount on cranking motor top mounting bolt)
	74 158 H	PIN, release shaft lever rod end 3/32 x 3/4" cottér PIN
	96 282 H	SPRING, clutch return



ATTACHMENTS

EXHAUST PIPE



IPA-56868

REF. NO.	I.H. PART NUMBER	DESCRIPTION
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(X) - KEY TO UNITS

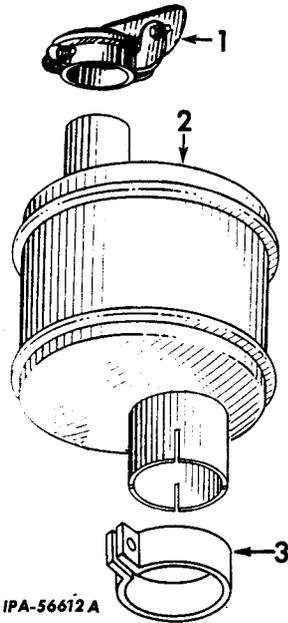
A -	305 643 R91	ATTACHMENT, exhaust pipe (rear outlet) (for units not equipped with Dash) (See NOTES 1 and 3)
B -	305 645 R91	ATTACHMENT, exhaust pipe (up outlet) (See NOTES 1 and 3)
(X) -		Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.
1	305 656 R1	SHIELD, exhaust pipe heat No. 6 x 1/4" rd-hd. tapping SCREW (4)
2	305 652 R91	CLAMP, exhaust pipe heat shield support (2) 5/16" NUT (2) 5/16 x 1-1/4" hex-hd. cap SCREW (2) 5/16" lock WASHER (2)
3	305 647 R11	PIPE, exhaust (Unit A)
4	72 093 R1	RING, exhaust pipe seal
5	63 870 D	CLAMP, exhaust pipe support 5/16" NUT 5/16 x 1-1/4" hex-hd. cap SCREW 3/8" lock WASHER
6	305 654 R1	SUPPORT, exhaust pipe (Unit A) 3/8" NUT 3/8 x 1" hex-hd. cap SCREW 3/8" lock WASHER
7	305 653 R1	SUPPORT, exhaust pipe (Unit B)
8	305 649 R11 195 932 R1 102 025 H 120 903 H	PIPE, exhaust (Unit B) BOLT, exhaust pipe flange (3) NUT, exhaust pipe flange bolt (optional with 120 903 H) (6) NUT, exhaust pipe flange bolt (optional with 102 025 H) (6)

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



ATTACHMENTS

EXHAUST MUFFLER AND RAIN CAP

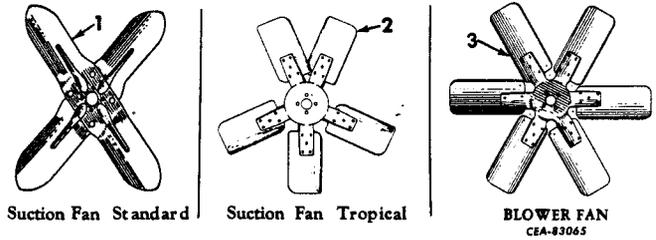


REF. NO.	I.H. PART NUMBER	DESCRIPTION
	332 517 R91	ATTACHMENT, exhaust rain cap (See NOTES 1 and 3)
	305 641 R91	ATTACHMENT, exhaust muffler (See NOTES 1 and 3)
1	283 280 R91	CAP, exhaust rain (optional with 338 577 R91) (part of ATTACHMENT, 332 517 R91)
1	338 577 R91	CAP, exhaust rain (optional with 283 280 R91) (part of ATTACHMENT, 332 517 R91)
2	305 468 R91	MUFFLER, exhaust (part of ATTACHMENT, 305 641 R91)
3	350 602 R1	CLAMP, exhaust muffler (part of ATTACHMENT, 305 641 R91) 7/16" NUT 7/16 x 1-1/2" hex-hd cap SCREW 7/16" lock WASHER



ATTACHMENTS

FAN



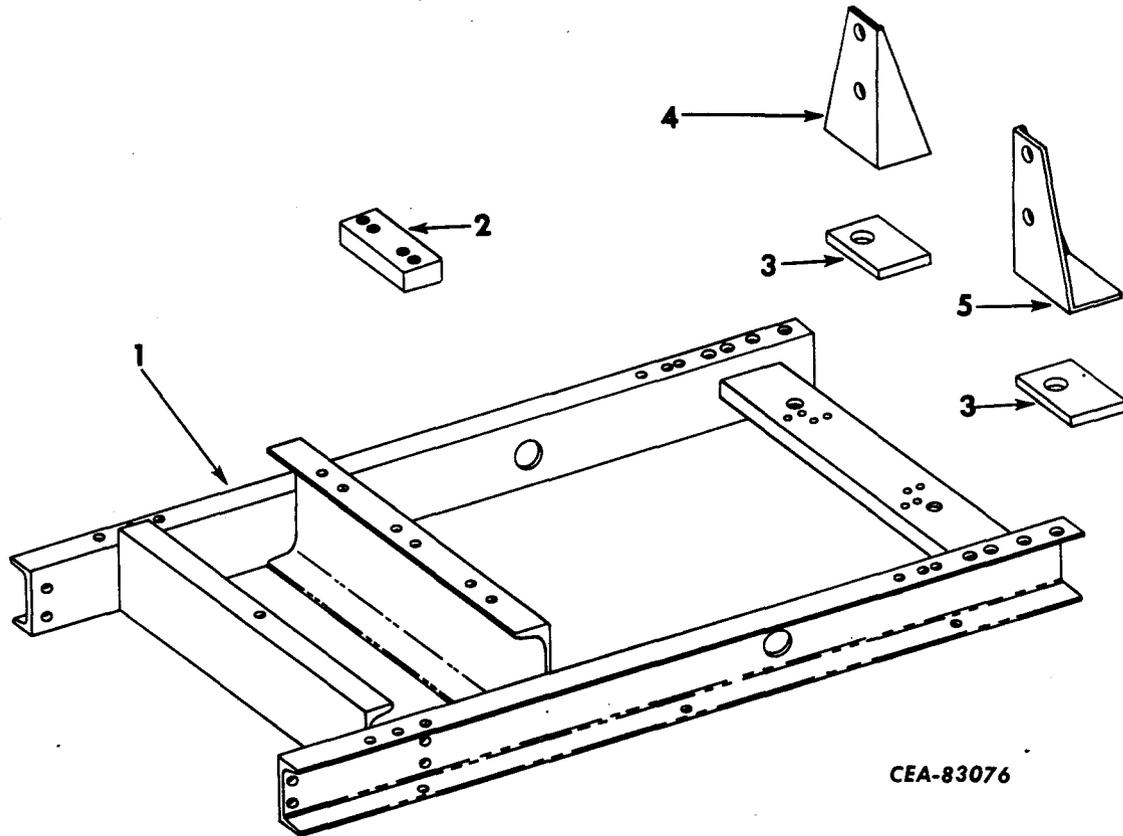
REF. NO.	I.H. PART NUMBER	DESCRIPTION
(X) - KEY TO UNITS		
A -	306 759 R91	ATTACHMENT, suction fan (Standard Cooling 1800 to 2800 RPM) (*)
B -	320 164 R91	ATTACHMENT, suction fan 6 bladed - 1800 to 2800 RPM) (See NOTES 1 and 3)
C -	306 766 R91	ATTACHMENT, blower fan (See NOTES 1 and 3)
(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
1	86 898 R91	FAN, suction (18-1/2" dia. 4-blades) (optional with 82 796 R91) (Unit A)
1	82 796 R91	FAN, suction (18-1/2" dia. 4-blades) (optional with 86 898 R91) (Unit A)
2	321 565 R91	FAN, suction (tropical) (18-1/2" dia. 6-blades) (Unit B)
3	306 355 R91	FAN, blower (18-1/2" dia. 6-blades) (Unit C) 1/4NF x 3/4" hex-hd. cap SCREW (4) 1/4" lock WASHER (4)

* - Attachment No Longer Available. Service Parts Only Will Be Furnished.
NOTE 1 - Factory Application - Order On Machine Order Form.
NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

ENGINE SUPPORT



CEA-83076

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	332 178 R91	ATTACHMENT, engine support (Box type base) (See NOTES 1 and 3)
1		BASE, sub (order 332 178 R91)
2	332 179 R1	ADAPTER, engine front support 1/2 x 1-1/2" hex-hd cap SCREW (2) 1/2 x 1-1/4" hex-hd cap SCREW (2) 1/2" lock WASHER (4) 9/16" flat WASHER (2)
	51 693 D	WASHER, bevel (2)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
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	305 695 R11	SUPPORT, rear (RH) 1/2 x 1" hex-hd cap SCREW (4) 1/2" lock WASHER (4)
5	305 694 R11	SUPPORT, rear (LH) 1/2 x 1" hex-hd cap SCREW (4) 1/2" lock WASHER (4)

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



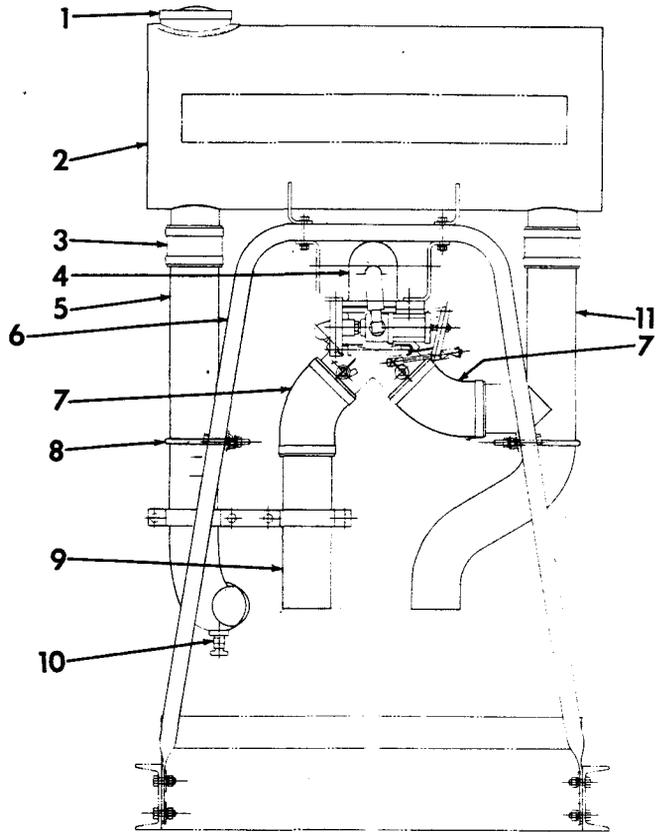
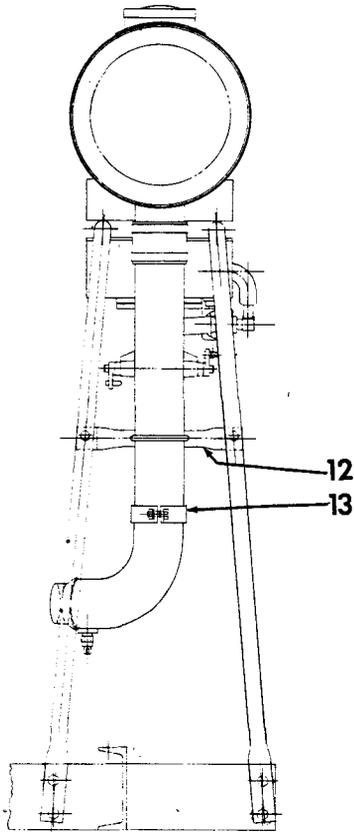
ATTACHMENTS



ATTACHMENTS

EXPANSION TANK AND CONNECTIONS

EXPANSION TANK AND CONNECTIONS - CONTINUED



IPB-10496 A

REF. NO.	I. M. PART NUMBER	DESCRIPTION
	332 181 R91	ATTACHMENT, expansion tank and connections (for use with flo-matic valve attachment and engine support attachment) (See NOTES 1 and 3)
1	317 654 R91	CAP, tank filler
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
3	346 611 R1	HOSE, inlet and outlet tube connector (3" ID x 2-1/2" long *) (2)
	279 029 R91	CLAMP, hose (4)
4		VALVE, flo-matic (Not furnished as part of "Expansion Tank and Connections Attachment") (For components see list of parts under details of "Flo-Matic Valve")
5	316 040 R11	TUBE, water outlet
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)
7	316 058 R2	ELBOW, by-pass valve body (2)
	279 029 R91	CLAMP, hose (5)

REF. NO.	I. M. PART NUMBER	DESCRIPTION
8	316 039 R1	U-BOLT, water tube (2) 5/16" NUT (6) 5/16" lock WASHER (4) 11/32 x 11/16" x 16 ga. WASHER (4)
9	316 059 R1	TUBE, water return
10	31 729 D	VALVE, drain
11	316 037 R11	TUBE, water inlet
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 16 ga. WASHER (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)
	332 182 R1	ELBOW, engine water outlet
	332 183 R1	ELBOW, engine water inlet
	279 026 R91	CLAMP, hose (3)
		* - Make From Bulk Stock. Bulk Stock Furnished in Three Foot Lengths. Part Number is For One Foot of Hose only.
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

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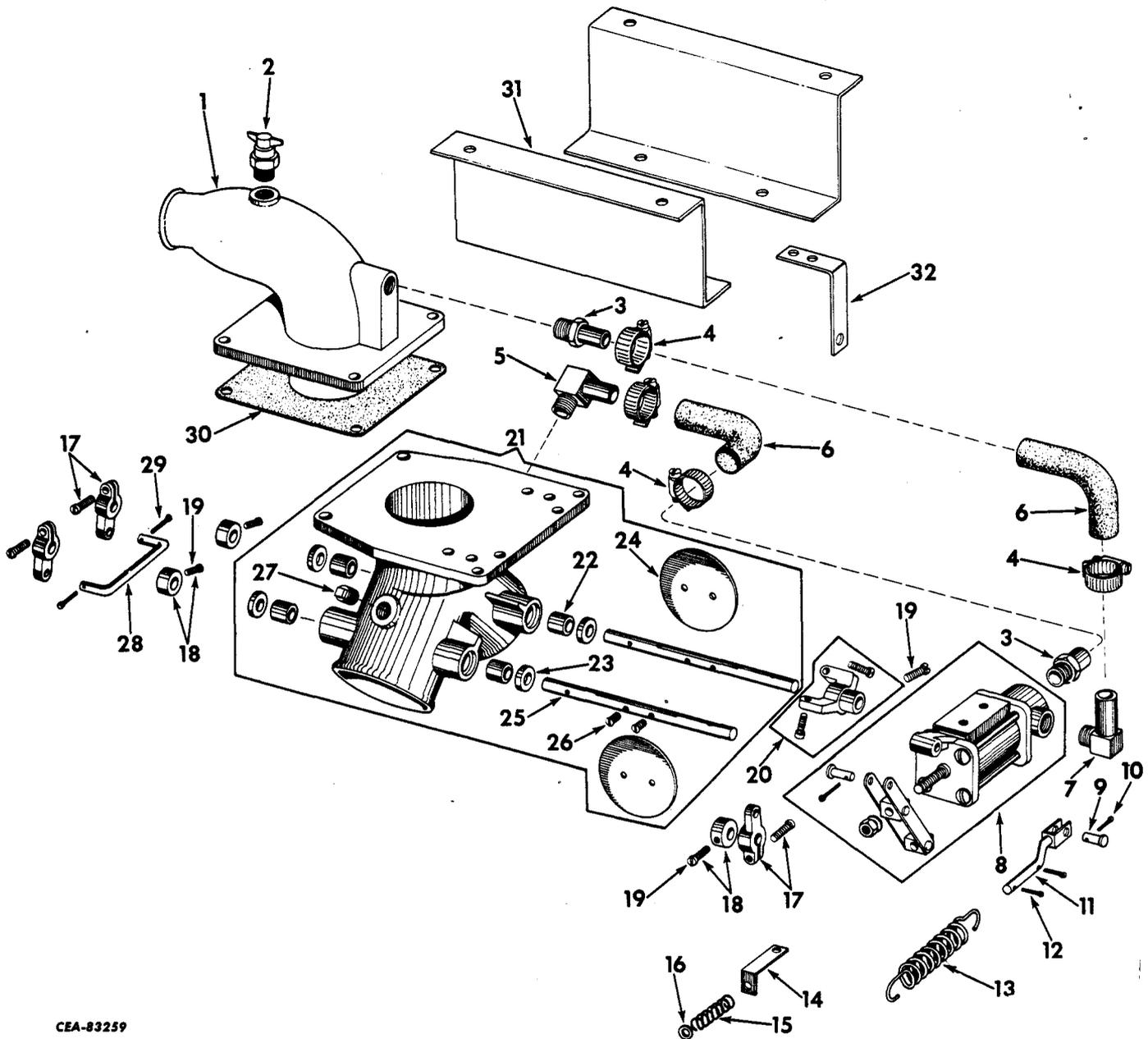


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ATTACHMENTS

FLO-MATIC VALVE



CEA-83259

REF. NO.	I. H. PART NUMBER	DESCRIPTION
	332 184 R91	ATTACHMENT, flo-matic valve (See NOTES 1 and 3)
1	316 253 R2	INLET, flo-matic valve
2	31 729 D	VALVE, 3/8" vent
3	171 819 R1	NIPPLE, 5/8 x 3/8" hose (2)
4	274 085 R91	CLAMP, hose (4)
5	171 807 R1	ELBOW, 5/8 x 3/8" hose (short)
6	169 192 R1	ELBOW, 90° x 5/8" rubber hose (2)

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ATTACHMENTS

FLO-MATIC VALVE - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
7	120 879 R1	ELBOW, 90° x 5/8" hose (long)
8	346 637 R91	CONTROL, vernatherm 1/4NF x 5/8" hex-hd cap SCREW (2) 1/4" lock WASHER (2)
9	102 776 H	PIN, rod end
10	107 761	PIN, 1/16 x 3/4" cotter
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

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ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
FLO-MATIC VALVE - CONTINUED		
11	316 063 R11	ROD w/CLEVIS, overtravel
12	103 373	PIN, 3/32 x 3/4" cotter (2)
13	61 635 D	SPRING, return
14	316 065 R1	CLIP, return spring
15	300 415 R1	SPRING, overtravel
16		WASHER, 9/32 x 5/8" x No. 16 ga. (2)
17	317 554 R91	LEVER ASSY, throttle shaft (3)
18	268 296 R91	COLLAR w/SCREW, 36 756 D, throttle shaft (3)
19	36 756 D	SCREW, set (4)
20	332 488 R91	STOP w/two SCREW, 11 189 V, throttle shaft
	11 189 V	SCREW, throttle stop adjusting (2)
21	316 046 R42	BODY ASSY, flo-matic valve (Composed of - § 1 BODY 4 BUSHING 347 001 R1 § 2 DISC 2 SHAFT 612 179 C1 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, 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 1-1/4" hex-hd cap SCREW (3) 5/16 x 1-1/2" hex-hd cap SCREW 5/16" lock WASHER (4)
32	323 850 R1	BRACKET, return spring 5/16" NUT 5/16 x 7/8" hex-hd cap SCREW 5/16" lock WASHER



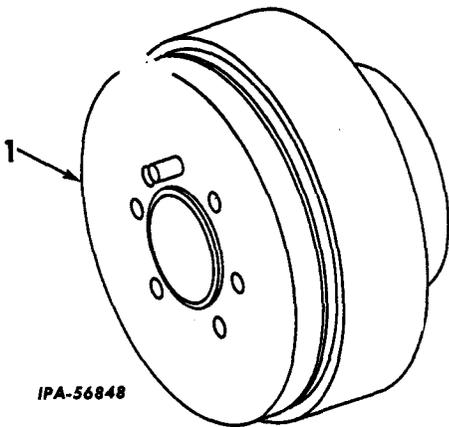
ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
FLO-MATIC VALVE - CONTINUED		
	323 849 R92	VALVE ASSY, flo-matic (Composed of - 1 BODY 316 046 R42 1 BRACKET 323 850 R1 2 CLAMP 274 085 R91 1 CLIP 316 065 R1 3 COLLAR 268 296 R91 1 CONTROL 346 637 R91 1 ELBOW 169 192 R1 1 ELBOW 171 807 R1 3 LEVER 317 554 R91 1 LINK 316 049 R1 2 NIPPLE 171 819 R1 1 PIN 102 776 H 4 PIN 103 373 1 PIN 107 761 1 PLUG 445 686 1 ROD 316 063 R11 1 SCREW 36 756 D 4 SEAL 321 881 R91 1 SPRING 300 415 R1 1 STOP 332 488 R91 1 SPRING 61 635 D)
§ - Not Furnished Separately.		

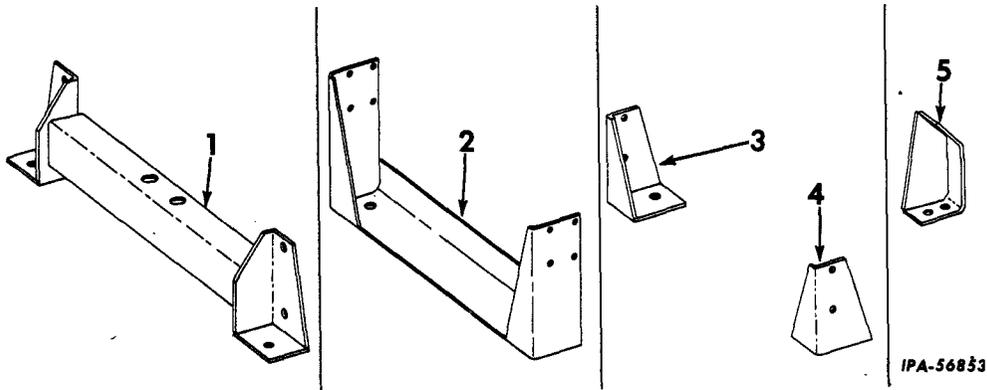


ATTACHMENTS

FLEXIBLE COUPLING



FRONT AND REAR SUPPORTS



REF. NO.	I.H. PART NUMBER	DESCRIPTION
(X) - KEY TO UNITS		
A -	305 663 R91	ATTACHMENT, front support (See NOTES 1 and 2)
B -	305 692 R91	ATTACHMENT, rear support (for use with (S.A.F. No. 4) Industrial Flywheel Housing) (See NOTES 1 and 2)
C -	305 693 R91	ATTACHMENT, rear support (for use with Motor Truck Flywheel Housing) (See NOTES 1 and 2)
D -	305 297 R91	ATTACHMENT, rear support (for use with (S.A.E. No. 3) Industrial Flywheel Housing) (See NOTES 1 and 2)
(X) - Letters of these units correspond with those shown following the description of parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
1	345 399 R91	SUPPORT, front (Together w/DIAGRAM, 1ZG 6493 will work for SUPPORT, 305 664 R91) (Unit A) 3/4" NUT (2) 3/4 x 1-1/2" hex-hd. cap SCREW (2) 3/4" lock WASHER (2)



ATTACHMENTS

FLEXIBLE COUPLING - CONTINUED

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	305 661 R91	ATTACHMENT, flexible coupling (Direct connected) (for UB-220, UB240 and UB-264 power units equipped with Industrial Flywheel, 305 602 R11 (for 10" clutch and S.A.E. No. 4 Flywheel Housing) (See NOTES 1 and 3)
1	305 662 R91	COUPLING, flexible 7/16 x 2-1/8" type AA hex. lock BOLT (6)

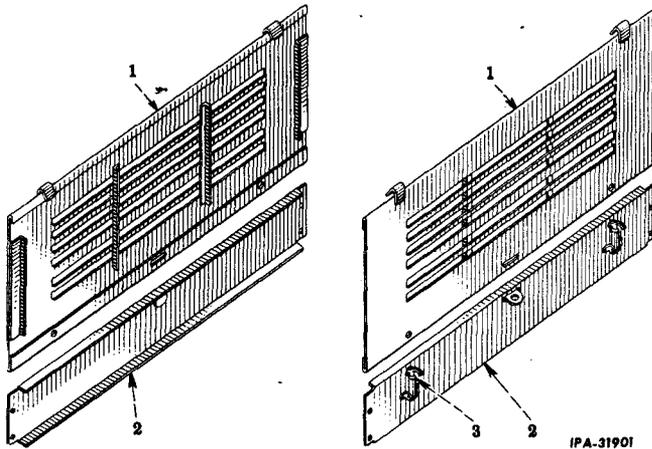
FRONT AND REAR SUPPORTS - CONTINUED

REF. NO.	I.H. PART NUMBER	DESCRIPTION
2	304 543 R11	SUPPORT, rear (Unit D) 1/2 x 1" hex-hd. cap SCREW (8) 1/2" lock WASHER (8)
3	305 694 R11	SUPPORT, LH rear (Unit B) 1/2 x 1-1/4" hex-hd. cap SCREW (2) 1/2" lock WASHER (2)
4	305 695 R11	SUPPORT, RH rear (Unit B) 1/2 x 1-1/4" hex-hd. cap SCREW (2) 1/2" lock WASHER (2)
5	305 696 R11	SUPPORT, rear (2 for Unit C) 1/2 x 1-1/2" hex-hd. cap SCREW (2) 1/2" lock WASHER (2)
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 2 - Field Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

HOOD SIDE DOOR



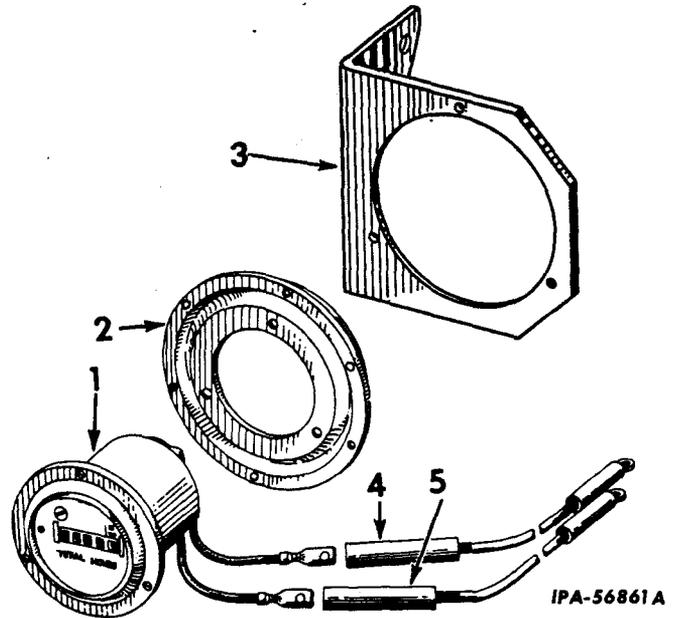
IPA-31901

REF. NO.	I. H. PART NUMBER	DESCRIPTION
	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" fl-hd. RIVET (8)



ATTACHMENTS

HOURLMETER



IPA-56861A

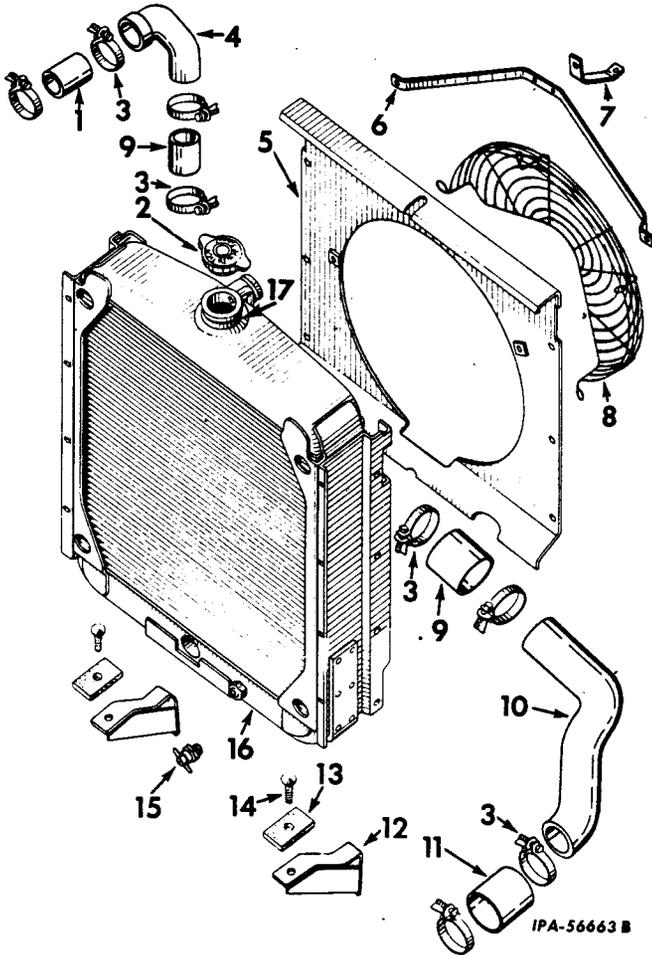
REF. NO.	I. H. PART NUMBER	DESCRIPTION
		Parts without letters after the description indicates the part is used for all attachments listed below: Letters A and B are used to identify separate attachments.
A	305 676 R91	ATTACHMENT, hourmeter (1)
B	349 136 R91	ATTACHMENT, hourmeter (for use with instrument and panel ATTACHMENTS, 349 132 R91 and 349 133 R91) (See NOTES 1 and 3)
1	610 820 C91	HOURLMETER No. 6 NUT (3 for Attachment B) No. 6 x 1/2" slit-rd-hd SCREW (3) No. 6 lock WASHER (3)
2	264 674 R91	DAMPER, hourmeter vibration (Lord) (Attachment A) No. 6 x 1/2" slit-rd-hd SCREW (3) No. 6 lock WASHER (3)
3	305 677 R1	BRACKET, hourmeter mounting (Attachment A) 5/16NF NUT (2) 5/16 x 3/4" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
4	305 199 R91	CABLE, hourmeter to coil (Attachment A)
4	271 066 R92	CABLE, hourmeter (Attachment B)
5	267 807 R91	CABLE, hourmeter to ground
	264 164 R91	CLIP, hourmeter to coil cable (Attachment A)

(1) - Attachment No Longer Available.
Service Parts only Will Be Furnished.
NOTE 1 - Factory Application - Order On Machine Order Form.
NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

FAN GUARD, RADIATOR AND CONNECTIONS



REF. NO.	I. H. PART NUMBER	DESCRIPTION
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(X) - KEY TO UNITS -

A	304 577 R91	ATTACHMENT, fan guard (for use with Velocity Governor) (See NOTES 1 and 3)
B	305 686 R91	ATTACHMENTS, radiator and connections (UB-240 and UB-264) (See NOTES 1 and 3)
C	305 687 R91	ATTACHMENT, radiator brace and fan housing sheet (for use with Velocity Governor) (See NOTES 1 and 3)
D	323 793 R91	ATTACHMENT, radiator brace and fan housing sheet (for use with Mechanical Governor) (See NOTES 1 and 3)
E	323 791 R91	ATTACHMENT, fan guard (for use with Mechanical Governor) (See NOTES 1 and 3)

(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.



ATTACHMENTS

FAN GUARD, RADIATOR AND CONNECTIONS - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	16 077 DA	HOSE, radiator inlet elbow (upper) (Unit B)
2	361 705 R91	CAP, radiator (Unit B)
3	274 088 R91	CLAMP, radiator inlet and outlet elbow hose (8 for Unit B)
4	265 643 R1	ELBOW, radiator inlet (Unit B)
5	304 590 R11	SHEET, fan housing (Unit C)
5	323 797 R11	SHEET, 323 797 R1 w/eleven weld NUT (Unit D) 5/16 x 1/2" hex-hd cap SCREW (6 for Unit C, 4 for Unit D) 5/16" lock WASHER (6 for Unit C, 4 for Unit D) 3/8 x 1" hex-hd cap SCREW (2 for Unit D) 3/8" lock WASHER (2 for Unit D)
6	305 195 R1	BRACE, radiator (Unit C) 3/8 x 1" hex-hd cap SCREW (2) 3/8" lock WASHER (2)
6	323 794 R1	BRACE, radiator (Unit D) 5/16 x 3/4" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
7	305 196 R1	BRACKET, radiator brace (Unit C) 3/8" NUT 3/8 x 1" hex-hd cap SCREW 3/8" lock WASHER 13/32 x 13/16" x 16 ga WASHER
8	304 578 R91	GUARD, fan (Unit 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	45 714 DA	HOSE, radiator inlet elbow (lower) (Unit B)
9	45 714 DA	HOSE, radiator outlet elbow (upper) (Unit B)
10	305 197 R1	ELBOW, radiator outlet (Unit B)
11	18 799 DA	HOSE, radiator outlet elbow (lower) (Unit B)
12	310 336 R11	SUPPORT, radiator (Together with DIAGRAM, IZG 6493 will work for SUPPORT, 304 593 R11) (2 for Unit B) 5/8" NUT (4) 5/8 x 1-1/4" hex-hd cap SCREW (4) 5/8" lock WASHER (4)
13	265 597 R1	PAD, radiator (2 for Unit B)
14	15 024 R1	Follow Reference No. 16
15	31 729 D	VALVE, radiator drain (Unit B)
16	265 595 R93	RADIATOR, with NECK 282 119 R1 (Unit B) 7/16" NUT (2) BOLT, 7/16 x 1-1/4" carriage (2) 7/16" lock WASHER (2) 15/32 x 59/64" x 16 ga. WASHER (2)
16	15 024 R1	
17	282 119 R1	NECK, radiator filler
	323 796 R1	CLIP, radiator brace support (Unit D)
	323 792 R91	GUARD, fan (Unit E) 5/16 x 1/2" hex-hd cap SCREW (5) 5/16" lock WASHER (5) 11/32" flat WASHER (5)
	444 782	PLUG, water inlet (for Condenser) (Unit B)
	323 795 R11	SUPPORT 323 795 R1 w/CLIP, 323 796 R1 radiator brace (Unit D) 7/16 x 7/8" hex-hd. cap SCREW (2) 7/16" lock WASHER NUT, 3/8" (Unit D)) SCREW, 3/8 x 3/4") Support hex-hd cap (Unit D)) to WASHER, 3/8" lock) Brace (Unit D))

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

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



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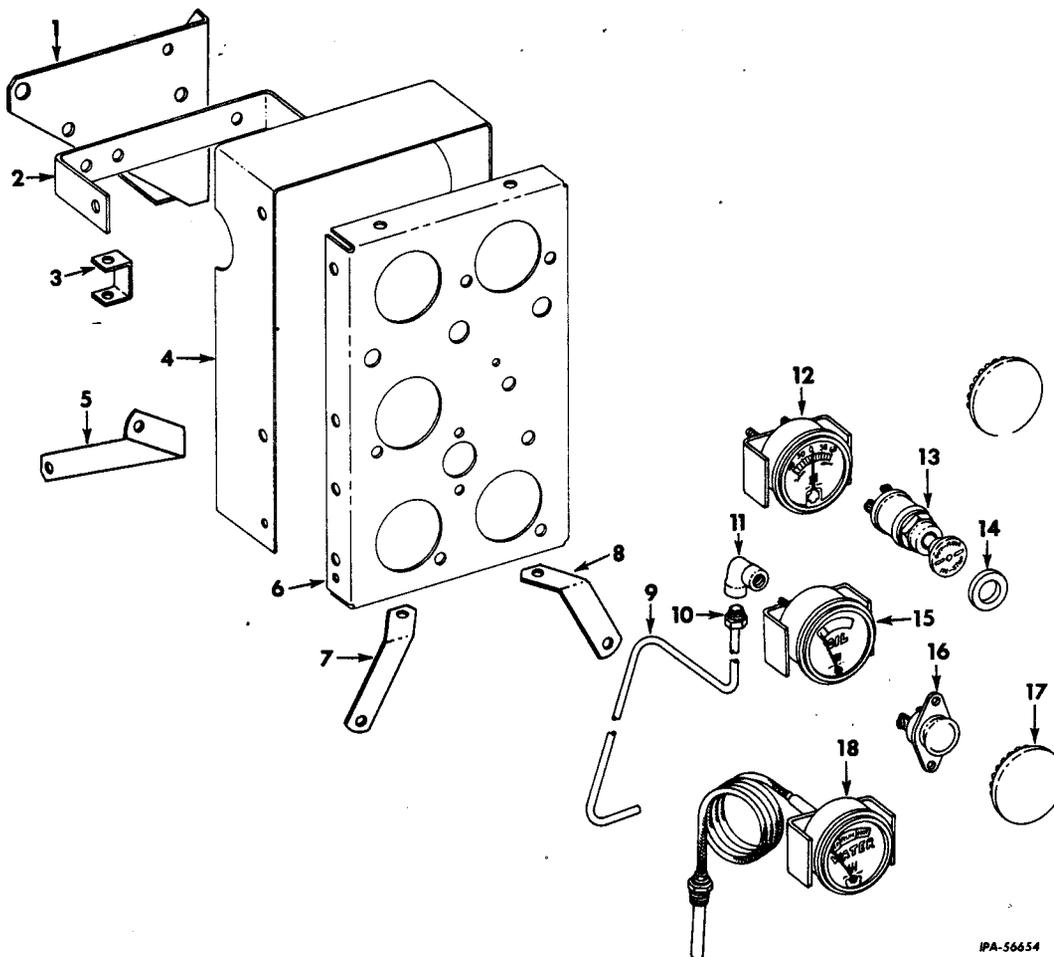
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ATTACHMENTS

INSTRUMENTS AND PANEL

(Regular Gauges) (For units with Instruments and Panel Attachments, 305 678 R91, 306 423 R91, 308 246 R91 and 308 247 R91)



IPA-56654

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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⊗ - KEY TO UNITS

A	305 678 R91	ATTACHMENT, INSTRUMENTS AND PANEL (Regular Gauges) (For use with S. A. E. No. 4 Flywheel Housing) * (†)
B	306 423 R91	ATTACHMENT, INSTRUMENTS AND PANEL (Regular Gauges) (For use with S. A. E. No. 4 Flywheel Housing) ** (†)
C	308 246 R91	ATTACHMENT, INSTRUMENTS AND PANEL (Regular Gauges) (For use with S. A. E. No. 3 Flywheel Housing) * (†)
D	308 247 R91	ATTACHMENT, INSTRUMENTS AND PANEL (Regular Gauges) (For use with S. A. E. No. 3 Flywheel Housing) ** (†)

⊗ - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.

305 635 R1	SUPPORT, instrument panel top (Units A and C)
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ATTACHMENTS

INSTRUMENTS AND PANEL - CONTINUED

(Regular Gauges) (For units with Instruments and Panel Attachments, 305 678 R91, 306 423 R91, 308 246 R91 and 308 247 R91)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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2	304 585 R11	BRACKET, instrument panel (mounting 3/8" NUT (2) 3/8" x 1" hex-hd. cap SCREW (2 for Units A and C) 3/8 x 3/4" hex-hd. cap SCREW (2 for Units B and D) 3/8" lock WASHER (2)
3	308 243 R1	SUPPORT, instrument panel bottom (2 for Units C and D) 1/4" NUT (2) 1/4 x 1/2" hex-hd. cap SCREW (4) 1/4" lock WASHER (4)
4	304 586 R1	HOUSING, instrument panel No. 10 x 3/8" slt-rd-hd. SCREW (2)
5	305 634 R1	BRACE, instrument panel (Units A and C)

* - For Use Without Hood And Dash Attachment.

** - For Use With Hood And Dash Attachment
(†) - Attachment No Longer Available
Service Parts Only Will Be Furnished.



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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INSTRUMENTS AND PANEL - CONTINUED
 (Regular Gauges) (For units with Instruments and Panel Attachments, 305 678 R91, 306 423 R91, 308 246 R91 and 308 247 R91)

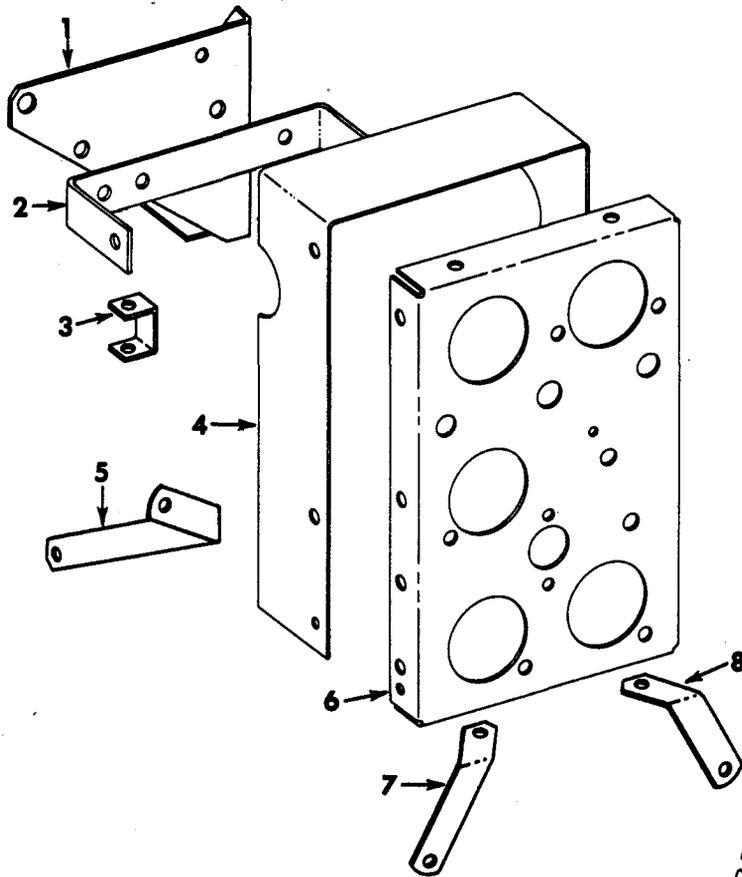
6	278 597 R2	PANEL, instrument 1/4" NUT (2) 1/4 x 1/2" slit-rd-hd. SCREW (4 for Units A and B) 1/4" lock WASHER (4 for Units A and B, 2 for Units C and D)
7	305 637 R1	SUPPORT, instrument panel LH bottom (Units A and B)
8	305 638 R1	SUPPORT, instrument panel RH bottom (Units A and B)
9	304 587 R1	TUBE, oil pressure indicator
10	19 984 R1	NUT, 1/4" OD tube (nylon) (2)
11	67 869 D	ELBOW, oil pressure indicator tube (in gauge)
12	269 103 R91	AMMETER (also listed with "Wiring Diagram")
13	62 801 DC	SWITCH, ignition (For components see list of parts under details of "Ignition Push Pull Switch" listed with Electrical System)
14	59 109 D	SPACER, ignition switch
15	313 177 R91	INDICATOR, oil pressure
16	366 317 R91	SWITCH, starting (For components see list of parts under details of "Starting Switch") (listed with Electrical System)
17	432 577	PLUG, instrument panel button (2)
18	269 222 R92	INDICATOR, heat
	263 515 R91	CLIP, cable harness (2)
	29 901 D	CONNECTOR, oil pressure indicator tube (in crankcase)
	305 636 R91	HARNES, cable (illustrated with "Wiring Diagram")



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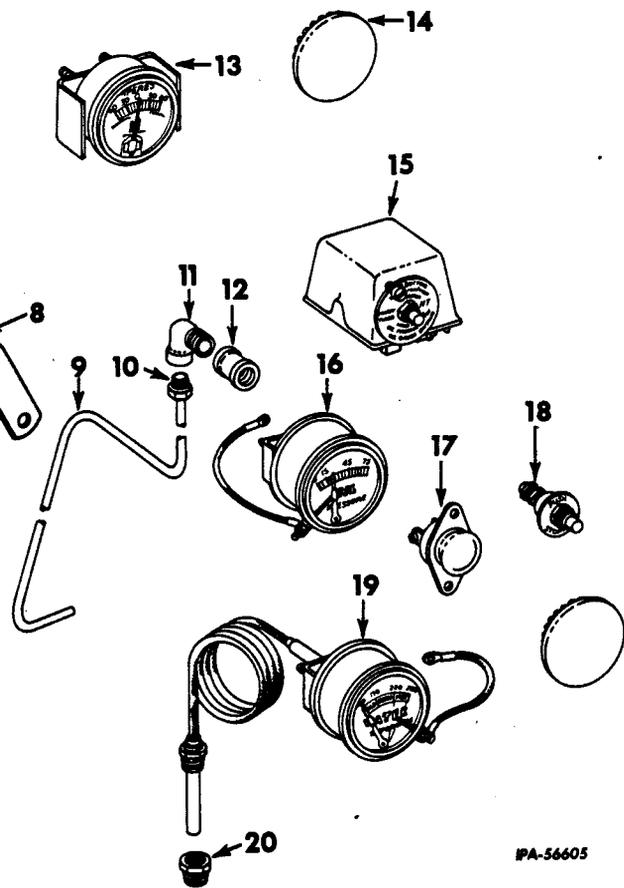
ATTACHMENTS

INSTRUMENTS AND PANEL
 (Safety Gauges) (For Units with Instruments and Panel Attachments, 305 639 R91, 308 240 R91, 308 241 R91 and 308 242 R91)



ATTACHMENTS

INSTRUMENTS AND PANEL - CONTINUED
 (Safety Gauges) (For Units with Instruments and Panel Attachments, 305 639 R91, 308 240 R91, 308 241 R91 and 308 242 R91)



PA-56605

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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(X) - KEY TO UNITS

- A - 305 639 R91 ATTACHMENT, Instruments and Panel (Safety Gauges) (for use with S. A. E. No. 4 Flywheel Housing) * (†)
- B - 308 240 R91 ATTACHMENT, Instruments and Panel (Safety Gauges) (for use with S. A. E. No. 4 Flywheel Housing) ** (†)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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- C - 308 241 R91 ATTACHMENT, Instruments and Panel (Safety Gauges) (for use with S. A. E. No. 3 Flywheel Housing) * (†)

* - For Use Without Hood And Dash Attachment.
 ** - For Use With Hood And Dash Attachment.
 (†) - Attachment No Longer Available Service Parts Only Will Be Furnished.



ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
INSTRUMENTS AND PANEL - CONTINUED (Safety Gauges) (For Units with Instruments and Panel Attachments, 305 639 R91, 308 240 R91, 308 241 R91 and 308 242 R91)		
D -	308 242 R91	ATTACHMENT, Instruments and Panel (Safety Gauges) (for use with S. A. E. No. 3 Flywheel Housing) ** (†)
(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
1	305 635 R1	SUPPORT, instrument panel top (Units A and C)
2	304 585 R11	BRACKET, instrument panel mounting 3/8" NUT (2) 3/8 x 1" hex-hd. cap SCREW (2 for Units A and C) 3/8 x 3/4" hex-hd. cap SCREW (2 for Units B and D) 3/8" lock WASHER (2)
3	308 243 R1	SUPPORT, instrument panel bottom (2 for Units C and D) 1/4" NUT (2 for Units C and D) 1/4 x 1/2" hex-hd. cap SCREW (4 for Units C and D) 1/4" lock WASHER (4 for Units C and D)
4	304 586 R1	HOUSING, instrument panel No. 10 x 3/8" slt-rd-hd. SCREW (2)
5	305 634 R1	BRACE, instrument panel (Units A and C)
6	278 597 R2	PANEL, instrument 1/4" NUT (2 for Units A and B) 1/4" x 1/2" slt-rd-hd. SCREW (4 for Units A and B, 2 for Units C and D) 1/4" lock WASHER (4 for Units A and B, 2 for Units C and D)
7	305 637 R1	SUPPORT, instrument panel LH bottom (Units A and B)
8	305 638 R1	SUPPORT, instrument panel RH bottom (Units A and B)
9	304 587 R1	TUBE, oil pressure indicator
10	19 984 R1	NUT, 1/4" OD tube (nylon) (2)
11	30 402 D	ELBOW, oil pressure indicator tube (in coupling)
12	105 408	COUPLING, oil pressure indicator (in gauge)
13	269 103 R91	AMMETER (also listed with "Wiring Diagram")
14	432 577	PLUG, instrument panel button (2)
15	265 470 R91	RELAY (also listed with "Wiring Diagram")



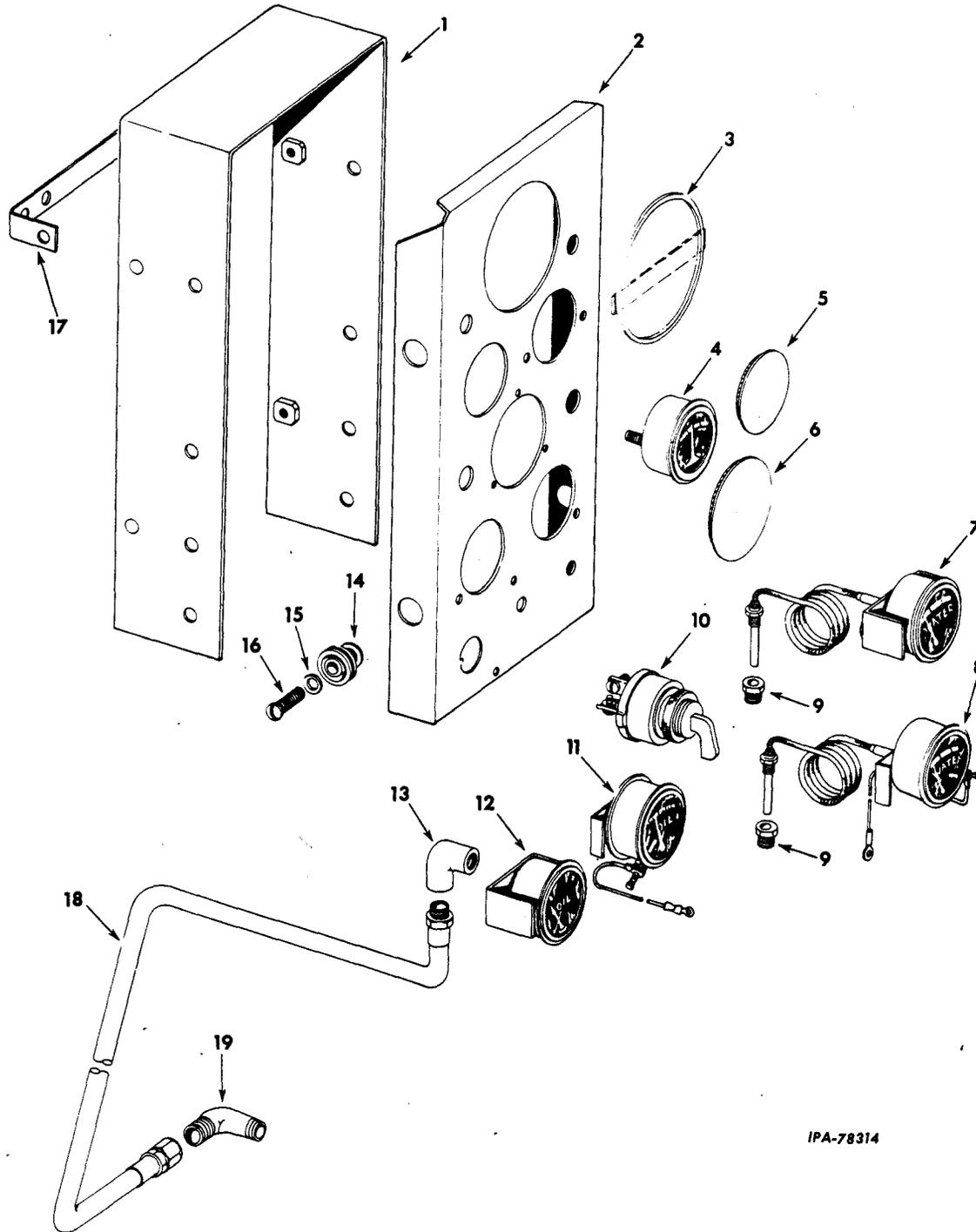
ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
INSTRUMENTS AND PANEL - CONTINUED (Safety Gauges) (For Units with Instruments and Panel Attachments, 305 639 R91, 308 240 R91, 308 241 R91 and 308 242 R91)		
16	268 542 R91	GAUGE, safety oil pressure (also listed with "Wiring Diagram")
17	366 317 R91	SWITCH, starting (for components see list of parts under details of "Starting Switch" listed with Electrical System)
18	265 471 R91	SWITCH, stop (also listed with "Wiring Diagram")
19	265 468 R91	INDICATOR, safety heat (also listed with "Wiring Diagram")
20	256 504 R1	ADAPTER, heat indicator bulb (in cylinder head)
	29 901 D	BODY, oil pressure indicator tube connector (in crankcase)
	263 515 R91	CLIP, cable harness (illustrated with "Wiring Diagram") (2)
	305 636 R91	HARNESS, cable illustrated with "Wiring Diagram" (will work for 305 636 R91)
* - For Use Without Hood and Dash Attachment. ** - For Use With Hood and Dash Attachment. † - Attachment No Longer Available. Service Parts Only Will Be Furnished.		



ATTACHMENTS

INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT PANEL MOUNTING
 (Regular and Safety Gauges) (For Units with Instruments and Panel Attachments, 349 132 R91 and 349 133 R91)



ATTACHMENTS

INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT PANEL MOUNTING - CONTINUED
 (Regular and Safety Gauges) (For Units with Instruments and Panel Attachments, 349 132 R91 and 349 133 R91)

IPA-78314



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT PANEL MOUNTING - CONTINUED (Regular and Safety Gauges) (For Units with Instruments and Panel Attachments, 349 132 R91 and 349 133 R91)		
		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.
A	349 132 R91	ATTACHMENT, instruments and instrument panel (regular gauges) (for use on units equipped with Instrument Panel Mounting Attachment, 349 127 R91, Vacuum Gauge Attachment, 349 125 R91, Tachometer Attachment, 349 135 R92 or Hourmeter Attachment, 349 136 R91) (see NOTES 1 and 3)
B	349 133 R91	ATTACHMENT, instruments and instrument panel (safety gauges) (for use on units equipped with Instrument Panel Mounting Attachment, 349 127 R91, Tachometer Attachment, 349 135 R92 or Hourmeter Attachment, 349 136 R91) (see NOTES 1 and 3)
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)
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)
2	337 354 R13	PANEL, instrument (Attachments A and B)
3	370 940 R11	COVER, tachometer opening (Attachments A and B) (Not used with tachourmeter Attachment)
4	269 103 R91	AMMETER (Attachments A and B)
5	432 577	PLUG, 2-3/32" button (Attachments A and B)
6	432 582	PLUG, 2-1/4" button (Attachments A and B) (Not used with tachourmeter Attachment)
7	346 597 R91	INDICATOR, heat (Attachment A)
8	347 602 R91	INDICATOR, safety heat (Attachment B)
9	347 601 R1	ADAPTER, heat indicator (Attachment C)
10	327 144 R91	SWITCH, ignition and starting (Attachments A and B)
11	347 604 R91	INDICATOR, safety oil pressure (Attachment B)
12	313 177 R91	INDICATOR, oil pressure (Attachment A)
13	9 409 923	ELBOW, 1/8" x 90° (Attachments A and B)
14	336 419 R91	MOUNT, vibration (Attachments A and B)
15		WASHER, No. 10 lock (4 for Attachments A and B)
16		SCREW, No. 10 x 3/4" rd-hd mach (4 for Attachments A and B)
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)



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
INSTRUMENTS, INSTRUMENT PANEL AND INSTRUMENT PANEL MOUNTING - CONTINUED (Regular and Safety Gauges) (For Units with Instruments and Panel Attachments, 349 132 R91 and 349 133 R91)		
18	346 592 R91	HOSE w/two FITTING, oil pressure indicator (HOSE, .19" ID x 17" long including FITTINGS) (Attachment C)
19	118 753	ELBOW, 1/4" x 90° oil pressure hose (Attachment C)
	42 915 D	BLOCK, junction (Attachment B) (%)
	42 917 D	BLOCK, w/BLOCK, 42 915 D and BRACKET, 42 916 D, junction (optional with 352 110 R91) (Attachment B) (%)
	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
	42 916 D	BRACKET, junction block (Attachment B) (%) No. 10 NUT No. 10 x 1/2" slt-hd mach SCREW No. 10 lock WASHER
	63 713 DA	CABLE, relay to ignition switch (Attachment 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
	274 747 R91	CABLE, safety control to junction block (Attachment B) (%)
	274 747 R91	CABLE, relay to safety control switch (Attachment B) (%)
	264 164 R91	CLIP, regulator cable (Attachment C)
	327 071 R1	CLIP, capillary tube (Attachment C)
	263 308 R91	CLIP, cranking motor cable harness (Attachment C) (*)
	370 535 R1	CLIP, ignition cable (Attachment C)
	349 128 R91	HARNESS, cranking motor cable (Attachment C) (*)
	349 129 R91	HARNESS, ignition cable (Attachment C) (*)
	349 130 R91	HARNESS, regulator cable (Attachment C) (*)
	606 069 C91	RELAY, ignition cutout (Attachment B) (%)
	603 884 C91	SWITCH, safety control toggle (optional with 253 818 R91) (Attachment B) (%)
	253 818 R91	SWITCH, safety control toggle (optional with 603 884 C91) (Attachment B) (%)
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.
		% - Also Listed And Illustrated With "Electric Wiring (Safety Gauges)."
		* - Also Listed And Illustrated With "Electric Wiring (Regular Gauges)."



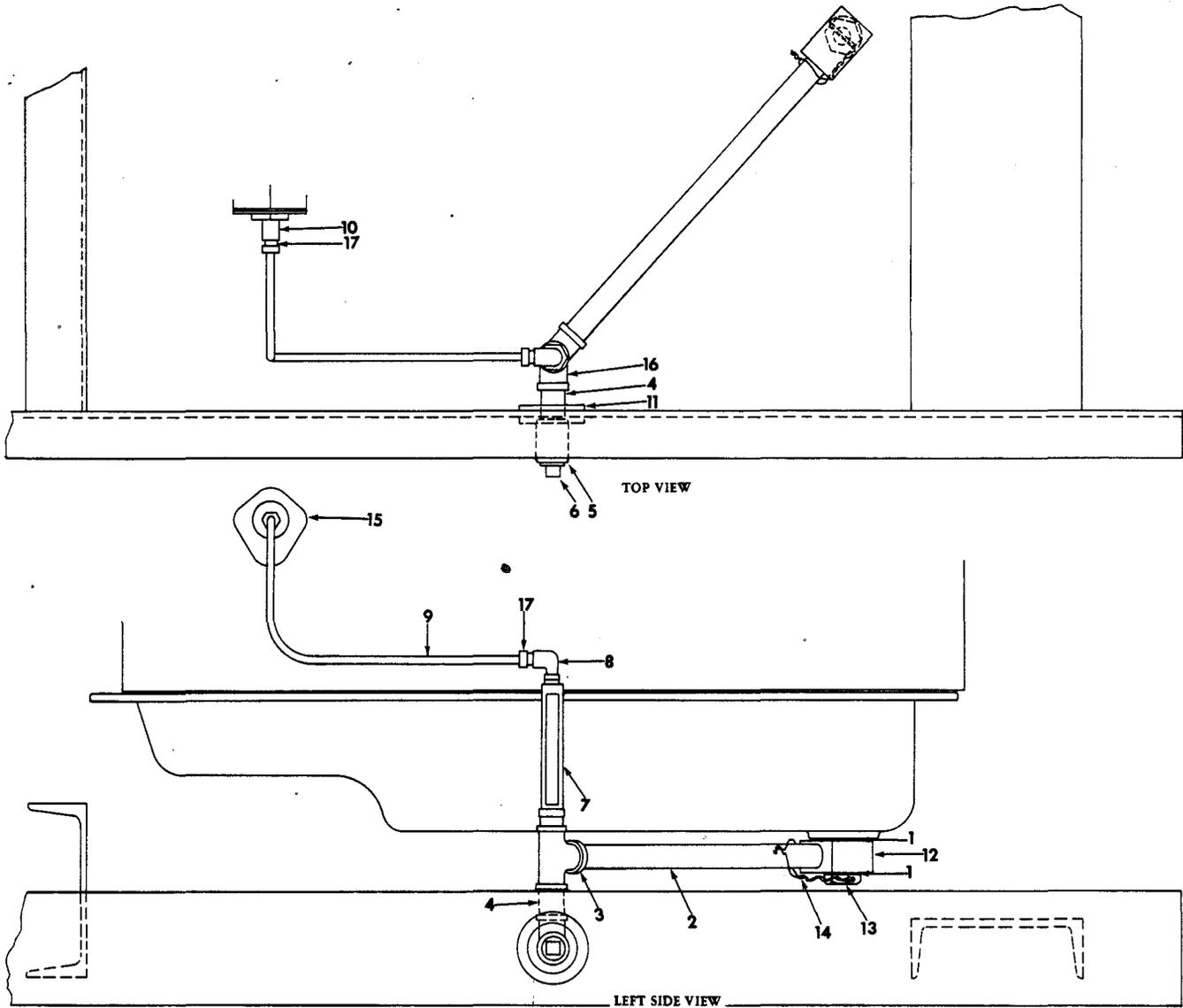
ATTACHMENTS

OIL LEVEL SIGHT GAUGE



ATTACHMENTS

OIL LEVEL SIGHT GAUGE - CONTINUED



CEA-83083

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	332 467 R91	ATTACHMENT, oil level sight gauge (for use with flo-matic valve Attachment) (see NOTES 1 and 3)
1	3 405 H	GASKET, oil pan drain (2)
2	332 470 R1	PIPE, oil drain
3	142 364	TEE, 1/2 x 3/8" reducer
4	140 537	NIPPLE, 1/2 x 2" pipe (2)
5	187 397	COUPLING, 1/2" pipe
6		PLUG, 1/2" pipe
7	279 689 R91	GAUGE, oil level sight
8	30 402 D	ELBOW, vent tube
9	995 061 R1	TUBE, vent (20" long, copper 1/4" OD (#))
10	304 179 R91	CONNECTOR, tube
11	317 623 R1	GROMMET

REF. NO.	I.H. PART NUMBER	DESCRIPTION
12	332 173 R1	UNION, oil pan drain
13	332 174 R1	BOLT, oil pan drain retaining
14	261 505 R1	WIRE, bulk locking (16 ga) (customer must specify length required)
15	312 948 R11	COVER, fuel pump pad
16	119 098	ELBOW, 1/2" pipe
17	369 987 R1	NUT, 1/4" coupling (2)

(#) - Part Number And Price Covers One Foot Of Tubing. Furnished Only In 50 Foot Rolls.

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

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



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MEMORANDA



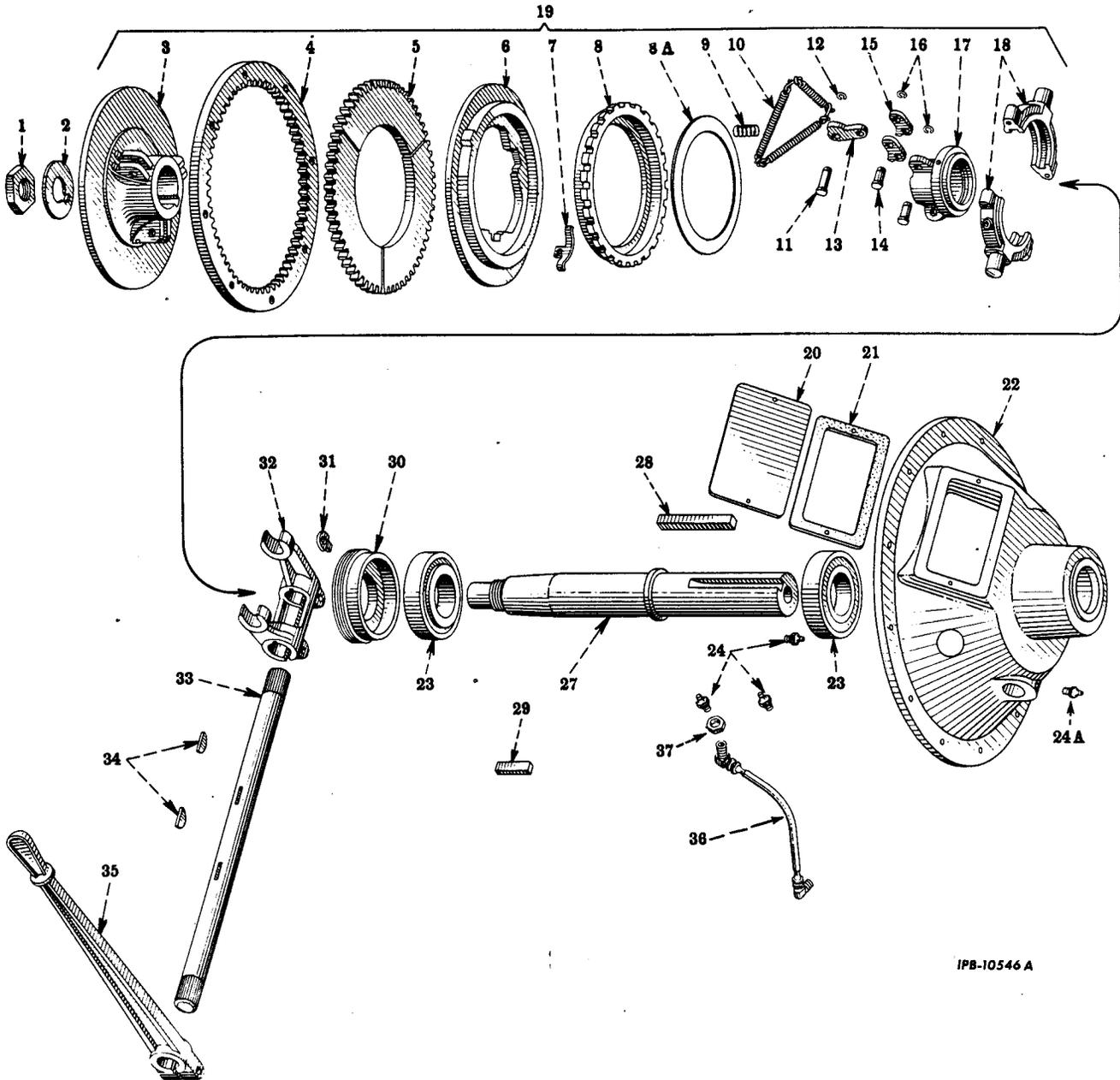
ATTACHMENTS

POWER TAKE-OFF (Rockford)



ATTACHMENTS

POWER TAKE-OFF - CONTINUED (Rockford)



IPB-10546 A

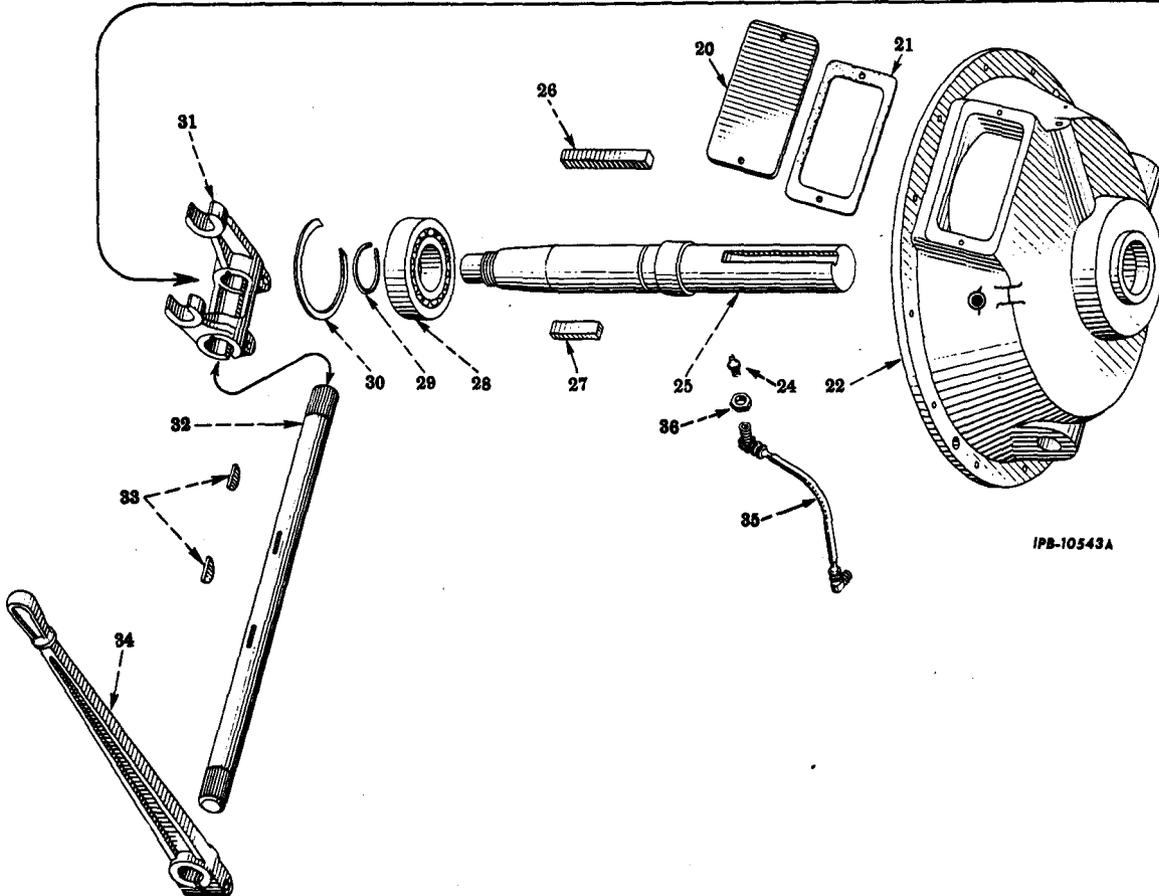
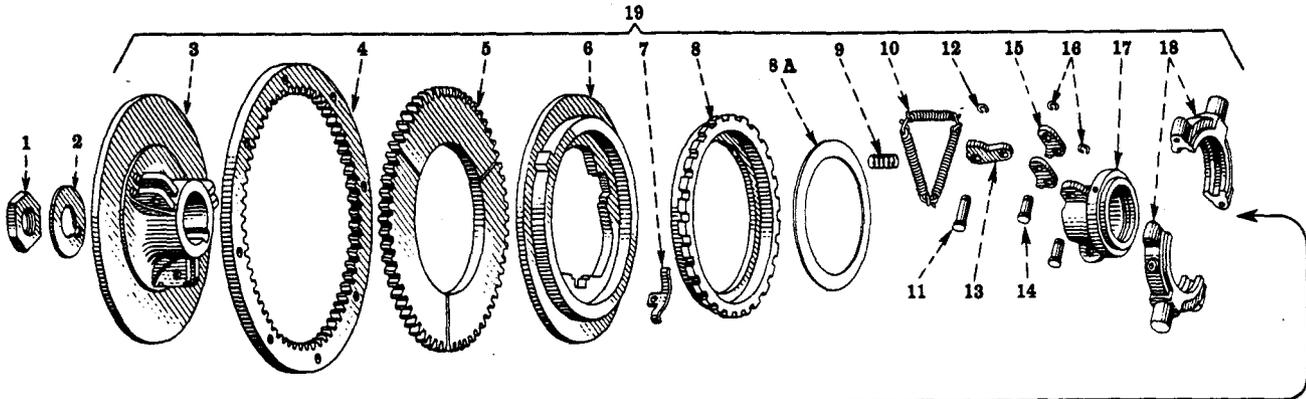
REF. NO.	I.H. PART NUMBER	DESCRIPTION
	305 679 R91	ATTACHMENT, power take-off 319 512 R91 (with 8" single plate over-center drive ring type clutch) (Rockford) For use with S. A. E. No. 4 Flywheel Housing (for Regular Duty on UB-220) (See NOTES 1 and 3)
	258 671 R1	NUT, locking (PT-706)
2	258 670 R1	WASHER, lock (PT-718-1)
3	269 110 R1	BODY, clutch (CL-8512-9)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
4	266 699 R1	RING, driving (CL-6965)
5	266 686 R1	FACING, set clutch (one set includes 3 segments) (CL-7039-1)
6	266 688 R1	PLATE, pressure (CL-8513-1)
		NOTE 1: Factory Application - Order on Machine Order Form.
		NOTE 3: Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

POWER TAKE-OFF
(Rockford)



REF. NO.	I. H. PART NUMBER	DESCRIPTION
305 680 R91		ATTACHMENT, power take-off, 319 514 R91 (Rockford) (with 8" single plate over-center drive ring type clutch) (for use with S. A. E. No. 4 Flywheel Housing) Regular or In-Line Drive Duty on UB-220 (See NOTES 1 and 3)
258 671 R1		NUT, No. 12 x 2-3/16" (PT-706)
258 670 R1		WASHER, lock (PT-718-1)

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ATTACHMENTS

POWER TAKE-OFF - CONTINUED
(Rockford)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
3	306 374 R1	BODY, clutch (CL-8512-10)
4	266 677 R1	RING, driving (CL-6965)
5	266 686 R1	FACING, clutch (1 set includes 3 segments) (CL-7039-1)

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

PRINTED IN UNITED STATES OF AMERICA



ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - CONTINUED (Rockford)		
7	319 530 R1	LOCK, positive (CL-9216)
7	266 690 R1	LOCK, adjusting (CL-8516) (Used with CLUTCH, 306 781 R91)
8	347 766 R1	NUT, adjusting (CL-8515-1) (together with PLATE, 347 767 R1 will work for NUT, 266 689 R1)
8A	347 767 R1	PLATE, adjusting ring (CL-11905) (together with NUT, 347 766 R1 will work for NUT, 266 689 R1)
9	266 687 R1	SPRING, separator (CL-8575) (3)
10	269 109 R91	SPRING, lever (CL-9464)
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	266 700 R1	SLEEVE, release (CL-8611)
18	266 701 R91	BEARING, release (UCL-7-7392-1)
18	258 369 R92	BEARING, release (UCL-7392) (used with CLUTCH, 306 781 R91)
19	266 683 R92	CLUTCH ASSEMBLY (8") (CLA-2175-A) (will work for 306 781 R91) (Composed of - 1 BODY 269 110 R1 1 FACING 266 686 R1 3 LEVER 268 866 R1 6 LINK 266 696 R1 1 LOCK 319 530 R1 1 NUT 347 766 R1 3 PIN 266 694 R1 6 PIN 266 697 R1 1 PLATE 266 688 R1 1 PLATE 347 767 R1 3 RING 255 395 R1 6 RING 266 698 R1 1 RING 266 699 R1 1 SLEEVE w/BEARING 266 691 R91 3 SPRING 266 687 R1 1 SPRING 269 109 R91)
20	321 481 R1	PLATE, instruction (PT-1593)
20	267 216 R2	PLATE, instruction (PT-1407) (Used with Power Take-off, 305 472 R91)
21	266 656 R1	GASKET, cover (PT-770)
22	313 857 R1	HOUSING, clutch (S. A. E. No. 4) (PT-300-30)
22	273 241 R2	HOUSING, clutch (S. A. E. No. 4) (PT-300-19) (Used with Power Take-Off, 305 472 R91)
23	ST 977	CUP, tapered roller bearing (PT-832) (2)
23	62 923 R91	CONE, tapered roller bearing (PT-832) (2)
24	109 461	FITTING, 1/8" lubrication (Lincoln 5000) (3)
24A	273 355	FITTING, lubrication 1/8" (Alemite 1743) (CL-5452) (2)
27	319 540 R1	SHAFT, drive (PT-1509-3)
27	276 553 R1	SHAFT, drive (PT-1509) (Used with Power Take-off, 305 472 R91)
28	273 245 R1	KEY (PT-1001)
29	266 678 R1	KEY, 1/2 x 1-7/8" (PT-884)
30	273 243 R1	RETAINER, bearing (PT-1059)



ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - CONTINUED (Rockford)		
31	266 661 R1	PLATE, lock (PT-44)
32	266 665 R91	YOKE, clutch (UPT-811)
33	276 554 R1	SHAFT, yoke (PT-200)
34	124 553	KEY, No. 15 Woodruff (PT-351) (2)
35	258 676 R11	LEVER, shifting (UPT-769)
36	313 858 R91	TUBE, flexible (PT-1026-3)
36	304 713 R91	TUBE, flexible (UPT-1014) (Used with Power Take-off, 305 472 R91)
37		NUT, 5/8NF jam flexible tube (CL-4355)
	ST 301	BEARING, clutch pilot
	258 370 R1	NUT, 5/16NF elastic stop (CL-7356) (2)
	103 883	PLUG, 1/8" std. slotted pipe
		SCREW, 3/8 x 1-1/4" hex-hd., cap (used with clutch yoke) (2)
		SCREW, 3/8 x 1-1/2" hex-hd., cap (used with shifting lever)
		SCREW, 5/16NF x 1-3/4" hex-hd. cap (used with release bearing sleeve) (2)
		SCREW, 5/16 x 1/2" hex-hd. cap
		SCREW, 1/4 x 3/8" fil-hd. (used with clutch assembly)
		SCREW, 1/4 x 3/8" slt-rd-hd. mach. (2)
		SCREW, 5/16 x 1/4" fl-pt. set
	306 782 R91	SLEEVE, 266 700 R1 w/release BEARING, 258 369 R92 and two NUT, 258 370 R1 (UCL-8611) (Used with CLUTCH, 306 781 R91)
		WASHER, 3/8" lock (3)
		WASHER, 1/4" (Shakeproof)
		WASHER, 5/16" lock
	319 512 R91	POWER TAKE-OFF ASSEMBLY (PTA-4847) (will work for 305 472 R91) (Composed of - 2 CUP ST 977 2 CONE 62 923 R91 3 FITTING 109 461 2 FITTING 273 355 1 GASKET 266 656 R1 1 HOUSING 313 857 R1 1 KEY 273 245 R1 2 KEY 124 553 1 KEY 266 678 R1 1 LEVER 258 676 R11 1 NUT 258 671 R1 1 PLATE 321 481 R1 1 PLATE 266 661 R1 1 PLUG 103 883 1 RETAINER 273 243 R1 1 SHAFT 319 540 R1 1 SHAFT 276 554 R1 1 TUBE 313 858 R91 1 WASHER 258 670 R1 1 YOKE 266 665 R91 3/8 x 1-3/8" hex-hd cap SCREW (*) (6) 3/8 x 1" hex-hd. cap SCREW (*) (12) 3/8" lock WASHER (*) (18)
	266 691 R91	SLEEVE, 266 700 R1 w/BEARING, 266 701 R91 release (UCL-2-8611)
(*) - For Mounting Clutch And Power Take-off Assembly.		



ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - CONTINUED (Rockford)		
6	266 688 R1	PLATE, pressure (CL-8513-1)
7	319 530 R1	LOCK, positive (CL-9216)
7	266 690 R1	LOCK, adjustment (CL-8516) (Used with CLUTCH, 305 872 R91)
8	347 766 R1	NUT, adjustment (CL-8515-1) (together with PLATE, 347 767 R1 will work for NUT, 266 689 R1)
8A	347 767 R1	PLATE, adjusting ring (CL-11905) (together with NUT, 347 766 R1 will work for NUT, 266 689 R1)
9	266 687 R1	SPRING, separator (CL-8575) (3)
10	269 109 R91	SPRING, lever (CL-9464)
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	306 792 R1	SLEEVE, release (CL-8611-1)
18	266 701 R91	BEARING, w/two NUT, 19 503 R1, release (UCL-7-7392)
18	258 369 R92	BEARING w/FITTING, 119 512 and two NUT, 258 370 R1 (UCL-1-7392) (Used with CLUTCH, 305 872 R1)
19	317 656 R91	CLUTCH ASSEMBLY (8" HE) (CLA-2175-35) (will work for 305 872 R91) (Composed of - 1 BODY 306 374 R1 1 FACING 266 686 R1 3 LEVER 268 866 R1 6 LINK 266 696 R1 1 LOCK 319 530 R1 1 NUT 347 766 R1 3 PIN 266 694 R1 6 PIN 266 697 R1 1 PLATE 266 688 R1 1 PLATE 347 767 R1 3 RING 255 395 R1 6 RING 266 698 R1 1 RING 266 699 R1 1 SLEEVE w/BEARING 317 644 R91 3 SPRING 266 687 R1 1 SPRING 269 109 R91)
20	321 481 R1	PLATE, instruction (PT-1593)
20	267 216 R2	PLATE, instruction cover (PT-1407) (Used with Power Take-off, 305 479 R91) 1/4 x 3/8" slt-rd-hd. mach. SCREW (2)
21	266 656 R1	GASKET, instruction cover plate (PT-770)
22	317 640 R1	HOUSING, clutch (PT-300-31)
22	273 174 R2	HOUSING, clutch (No. 4 S. A. E.) (PT-300-18) (Used with Power Take-off, 305 479 R91)
24	109 461	FITTING, lubricator grease (Lincoln 5000) (2)
25	306 386 R1	SHAFT, drive (PT-1003-3)
26	306 387 R1	KEY, 3/8 x 3/8 x 2-5/8" (PT-1069)
27	258 669 R1	KEY (PT-808)
28	ST 237	BEARING, shielded (PT-972)
29	258 667 R1	RING, snap (PT-807)
30	273 177 R1	RING, snap (PT-938)



ATTACHMENTS

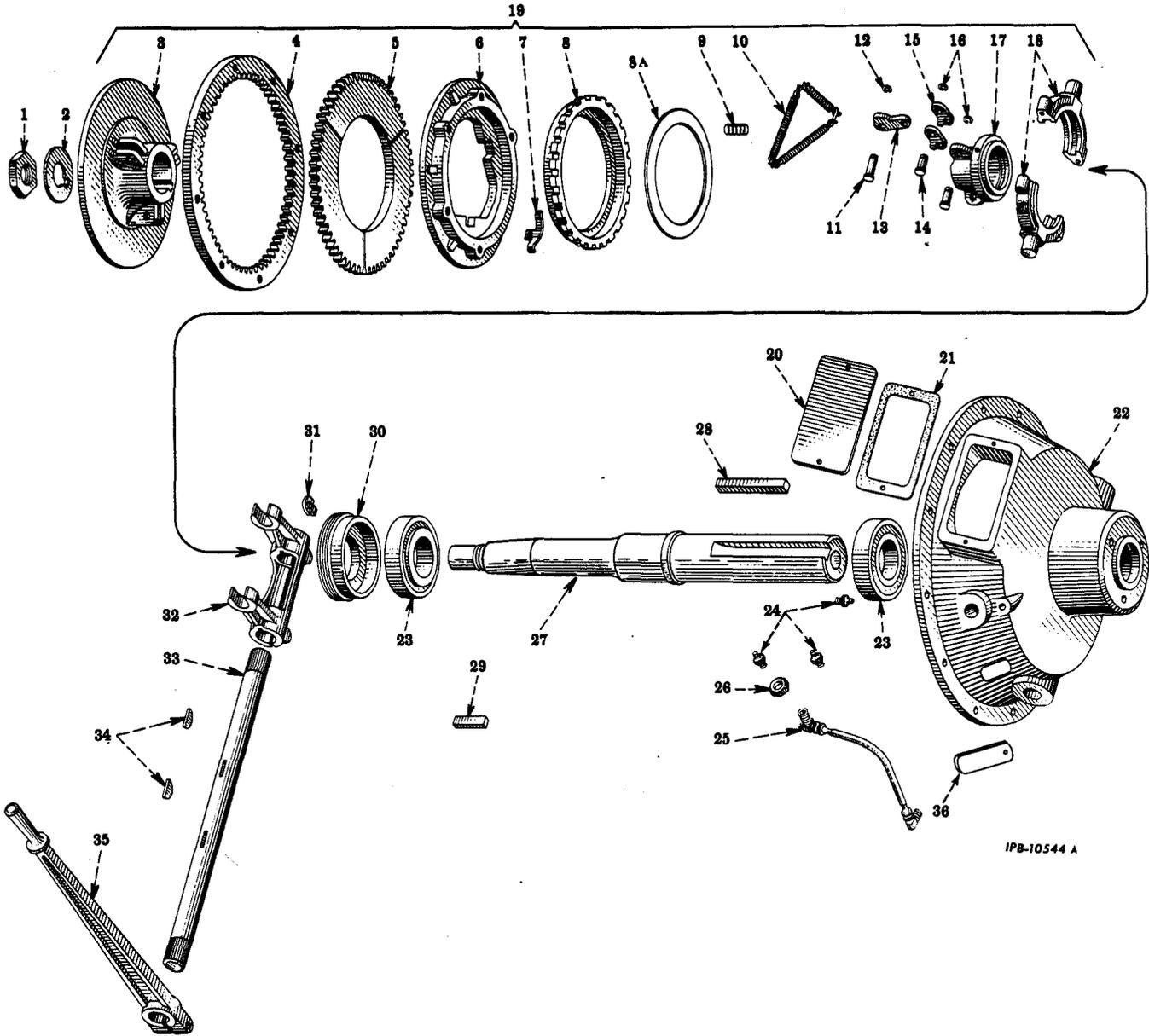
REF. NO.	I.H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - CONTINUED (Rockford)		
31	266 665 R91	YOKE, clutch (UPT-811) 3/8 x 1-1/4" hex-hd. cap SCREW (PT-352) (2) 3/8" lock WASHER (PT-353) (2)
32	276 554 R1	SHAFT, yoke (PT-200)
33	124 553	KEY, (No. 15 Woodruff) (2)
34	258 676 R11	LEVER, shifting (UPT-769) 3/8 x 1-1/2" hex-hd. cap SCREW (PT-604) 3/8" lock WASHER (PT-353)
35	304 713 R91	TUBE, flexible (UPT-1014) 5/8" jam NUT 5/8" lock WASHER
36		*Follows Reference No. 35
	274 810 R91	BEARING, clutch pilot (PT-1417)
	273 355	FITTING, lubricator grease (Alemite 1743 B) (CL-5452) (2)
	19 503 R1	NUT, 5/16NF elastic stop
	258 370 R1	NUT, 5/16NF elastic stop (Esna 29E-054) (CL-7356) (2) (Used with CLUTCH, 305 872 R1)
	306 791 R91	SLEEVE, 306 792 R1 w/BEARING, 258 369 R92, release (UCL-8611-1) (Used with CLUTCH, 305 872 R91)
		SCREW, 1/4 x 3/8" fil-hd. mach. (CL-3917-1)
		WASHER, 1/4" external-tooth lock (Shakeproof) (CL-3468)
	319 514 R91	POWER TAKE-OFF ASSEMBLY (PTA-4846) (will work for 305 479 R91) (Composed of - 1 BEARING ST 237 1 BEARING 274 810 R91 1 CLUTCH 317 656 R91 2 FITTING 109 461 2 FITTING 273 355 1 GASKET 266 656 R1 1 HOUSING 317 640 R1 1 KEY 258 669 R1 2 KEY 124 553 1 KEY 306 387 R1 1 LEVER 258 676 R1 1 NUT 258 671 R1 1 PLATE 321 481 R91 1 RING 258 667 R1 1 RING 273 177 R1 1 SHAFT 306 386 R1 1 SHAFT 276 554 R1 1 TUBE 304 713 R91 1 WASHER 258 670 R1 1 YOKE 266 665 R91 3/8 x 1" hex-hd. cap SCREW (*) (12) 3/8 x 1-3/8" hex-hd. cap SCREW (*) (6) 3/8" lock WASHER (*) (18)
	317 644 R91	SLEEVE, 306 792 R1 w/BEARING, 266 701 R91 release (UCL-4-8611-1)

(*) - For Mounting Clutch And Power Take Off Assembly.



ATTACHMENTS

POWER TAKE-OFF
(Rockford)



REF. NO.	I.H. PART NUMBER	DESCRIPTION
	305 682 R91	ATTACHMENT, power take-off, 319 513 R91 (Rockford) (with 10" single plate over-center drive ring type clutch) For use with S. A. E. No. 4 Flywheel Housing For Heavy Duty on UB-220 For Regular Duty on UB-240 and UB-264 (See NOTES 1 and 3)
1	273 231 R1	NUT, drive shaft (PT-732-2)
2	273 230 R1	WASHER, lock (PT-733-2)



ATTACHMENTS

POWER TAKE-OFF - CONTINUED
(Rockford)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
3	273 233 R1	BODY, clutch (CL-8490-10)
4	255 663 R1	RING, driving (CL-6951)
5	266 682 R1	FACING, clutch (one set includes three segments) (CL-6952)
		NOTE 1: Factory Application - Order On Machine Order Form.
		NOTE 3: Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION																																																						
POWER TAKE-OFF - CONTINUED (Rockford)																																																								
6	268 958 R91	PLATE, w/LOCK, 319 531 R1, pressure (UCL-9520)																																																						
7	319 531 R1	LOCK, adjusting (positive) (CL-9216-1)																																																						
8	347 871 R1	NUT, adjusting (CL-8494-1)																																																						
8A	347 872 R1	PLATE, adjusting ring (CL-11861)																																																						
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	273 235 R1	SLEEVE, release (CL-8558)																																																						
18	273 236 R91	BEARING w/two NUT, 258 370 R1 and PLUG, 103 883, release (UCL-5-7392)																																																						
19	273 232 R91	CLUTCH ASSY (Rockford) (10") (CLA-2174-27) (Composed of - <table border="0" style="margin-left: 20px;"> <tr><td>1</td><td>BODY</td><td>273 233 R1</td></tr> <tr><td>1</td><td>FACING</td><td>266 682 R1</td></tr> <tr><td>3</td><td>LEVER</td><td>268 866 R1</td></tr> <tr><td>1</td><td>LOCK</td><td>319 531 R1</td></tr> <tr><td>6</td><td>LINK</td><td>266 696 R1</td></tr> <tr><td>1</td><td>NUT</td><td>347 871 R1</td></tr> <tr><td>3</td><td>PIN</td><td>266 694 R1</td></tr> <tr><td>6</td><td>PIN</td><td>266 697 R1</td></tr> <tr><td>1</td><td>PLATE</td><td>268 958 R91</td></tr> <tr><td>1</td><td>PLATE</td><td>347 872 R1</td></tr> <tr><td>3</td><td>RING</td><td>255 395 R1</td></tr> <tr><td>6</td><td>RING</td><td>266 698 R1</td></tr> <tr><td>1</td><td>RING</td><td>255 663 R1</td></tr> <tr><td>1</td><td>SCREW</td><td>19 559 R1</td></tr> <tr><td>1</td><td>SLEEVE</td><td></td></tr> <tr><td></td><td>w/BEARING</td><td>273 234 R91</td></tr> <tr><td>3</td><td>SPRING</td><td>266 704 R1</td></tr> <tr><td>1</td><td>SPRING</td><td>268 865 R91</td></tr> </table>	1	BODY	273 233 R1	1	FACING	266 682 R1	3	LEVER	268 866 R1	1	LOCK	319 531 R1	6	LINK	266 696 R1	1	NUT	347 871 R1	3	PIN	266 694 R1	6	PIN	266 697 R1	1	PLATE	268 958 R91	1	PLATE	347 872 R1	3	RING	255 395 R1	6	RING	266 698 R1	1	RING	255 663 R1	1	SCREW	19 559 R1	1	SLEEVE			w/BEARING	273 234 R91	3	SPRING	266 704 R1	1	SPRING	268 865 R91
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20	321 481 R1	PLATE, instruction (PT-1593) 1/4 x 3/8" rd-hd mach SCREW (2)																																																						
21	266 656 R1	GASKET, cover (PT-770)																																																						
22	306 384 R1	HOUSING, clutch (PT-818-9)																																																						
23	13 396 DC	CONE, tapered roller bearing (PT-738) (2)																																																						
23	13 390 D	CUP, tapered roller bearing (PT-738) (2)																																																						
24	109 461	FITTING, 1/8" lubrication (Lincoln 5000) (3)																																																						
25	304 713 R91	TUBE, flexible (UPT-1014) 5/8" external tooth lock WASHER																																																						
26		NUT, 5/8NF (CL-4355)																																																						
27	319 536 R1	SHAFT, drive (PT-1356-3)																																																						
28	266 688 R1	KEY (PT-781)																																																						
29	266 678 R1	KEY (PT-884)																																																						
30	266 660 R1	RETAINER, bearing (PT-727)																																																						
31	266 661 R1	PLATE, lock (PT-44) 5/16 x 1/4" cup-pt set SCREW 5/16 x 1/2" hex-hd cap SCREW 5/16" lock WASHER																																																						



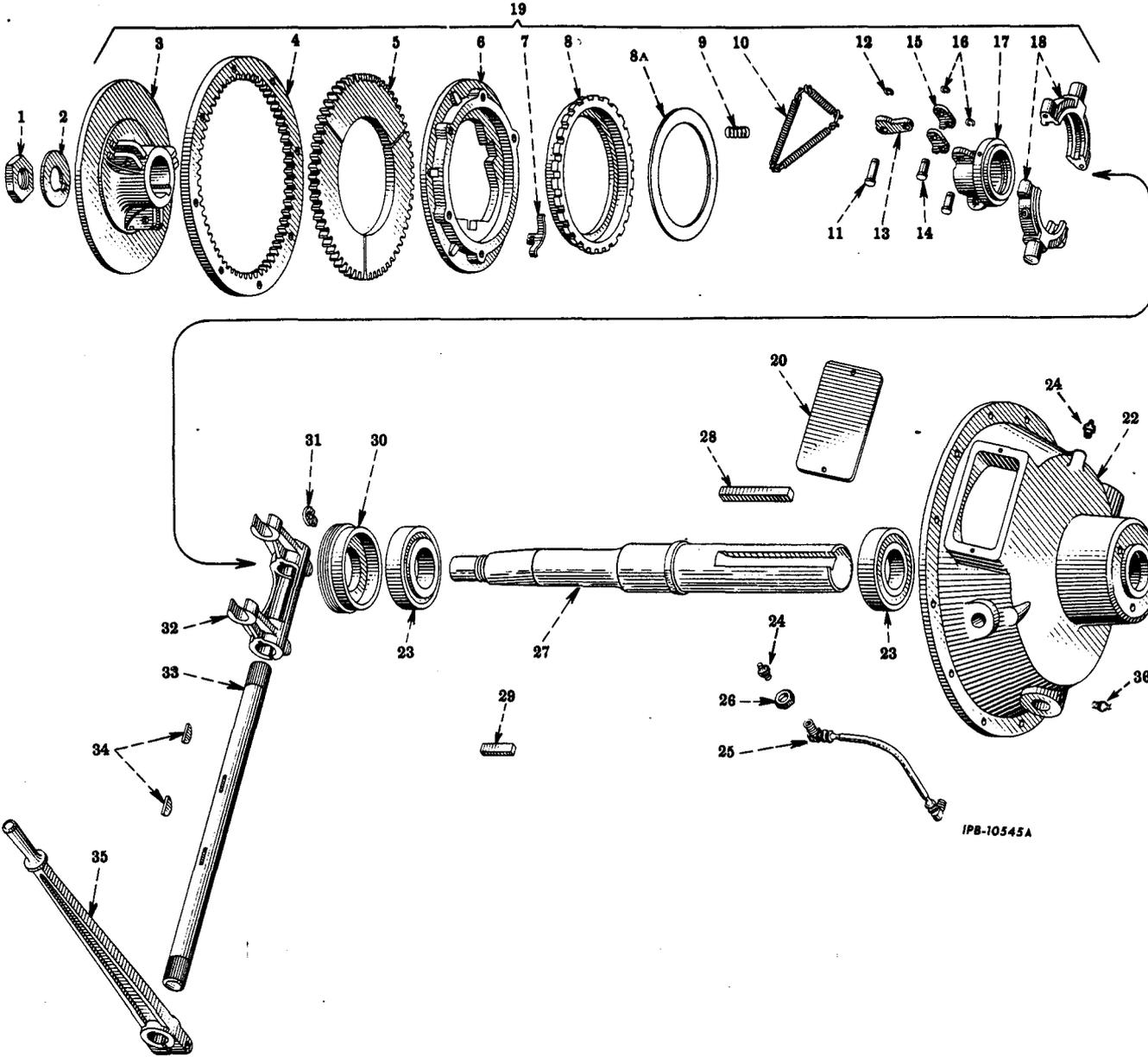
ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION																																																															
POWER TAKE-OFF - CONTINUED (Rockford)																																																																	
32	266 665 R91	YOKE, clutch (UPT-811)																																																															
33	276 554 R1	SHAFT, yoke (PT-200)																																																															
34	124 553	KEY, No. 15 Woodruff (PT-351) (2)																																																															
35	258 676 R11	LEVER, shifting (UPT-769)																																																															
36	258 661 R1	COVER (PT-819) 10NF x 3/8" rd-hd mach SCREW																																																															
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, lubricator grease (Alemite 1743B) (CL-5452) (2)																																																															
258 370 R1		NUT, 5/16NF elastic stop (CL-7356) (Esna-29-E-054) (2)																																																															
103 883		PLUG, 1/8" slit pipe (PT-989)																																																															
319 513 R91		POWER TAKE-OFF ASSY (will work for 305 474 R91) (PTA-41047) (Composed of - <table border="0" style="margin-left: 20px;"> <tr><td>1</td><td>COVER</td><td>258 661 R1</td></tr> <tr><td>2</td><td>CONE</td><td>13 396 DC</td></tr> <tr><td>2</td><td>CUP</td><td>13 390 D</td></tr> <tr><td>1</td><td>CLUTCH</td><td>273 232 R91</td></tr> <tr><td>3</td><td>FITTING</td><td>109 461</td></tr> <tr><td>2</td><td>FITTING</td><td>273 355</td></tr> <tr><td>1</td><td>GASKET</td><td>266 656 R1</td></tr> <tr><td>1</td><td>HOUSING</td><td>306 384 R1</td></tr> <tr><td>1</td><td>KEY</td><td>266 668 R1</td></tr> <tr><td>2</td><td>KEY</td><td>124 553</td></tr> <tr><td>1</td><td>KEY</td><td>266 678 R1</td></tr> <tr><td>1</td><td>LEVER</td><td>258 676 R11</td></tr> <tr><td>1</td><td>NUT</td><td>273 231 R1</td></tr> <tr><td>1</td><td>PLATE</td><td>321 481 R1</td></tr> <tr><td>1</td><td>PLATE</td><td>266 661 R1</td></tr> <tr><td>1</td><td>RETAINER</td><td>266 660 R1</td></tr> <tr><td>1</td><td>SHAFT</td><td>276 554 R1</td></tr> <tr><td>1</td><td>SHAFT</td><td>319 536 R1</td></tr> <tr><td>1</td><td>TUBE</td><td>304 713 R91</td></tr> <tr><td>1</td><td>WASHER</td><td>273 230 R1</td></tr> <tr><td>1</td><td>YOKE</td><td>266 665 R91</td></tr> </table>	1	COVER	258 661 R1	2	CONE	13 396 DC	2	CUP	13 390 D	1	CLUTCH	273 232 R91	3	FITTING	109 461	2	FITTING	273 355	1	GASKET	266 656 R1	1	HOUSING	306 384 R1	1	KEY	266 668 R1	2	KEY	124 553	1	KEY	266 678 R1	1	LEVER	258 676 R11	1	NUT	273 231 R1	1	PLATE	321 481 R1	1	PLATE	266 661 R1	1	RETAINER	266 660 R1	1	SHAFT	276 554 R1	1	SHAFT	319 536 R1	1	TUBE	304 713 R91	1	WASHER	273 230 R1	1	YOKE	266 665 R91
1	COVER	258 661 R1																																																															
2	CONE	13 396 DC																																																															
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		3/8" lock WASHER (20) (*)																																																															
		SCREW, 5/16NF x 1-3/4" hex-hd cap (2)																																																															
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		SCREW, 3/8 x 1-1/4" hex-hd cap (2)																																																															
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19 559 R1		SCREW, 1/4 x 3/8" hex-hd cap (CL-8807-1)																																																															
273 234 R91		SLEEVE, 273 235 R1 w/release BEARING, 273 236 R91 (UCL-3-8558)																																																															
		WASHER, 3/8" lock (2)																																																															
		WASHER, 1/2" lock																																																															
		WASHER, 1/4" (Shakeproof)																																																															
* - For Mounting Clutch And Power Take Assembly.																																																																	

ATTACHMENTS



POWER TAKE-OFF (Rockford)



REF. NO.	I. H. PART NUMBER	DESCRIPTION
	305 683 R91	ATTACHMENT, power take-off, 319 515 R91 (Rockford) (with 10" single plate over-center drive ring type clutch) For use with S. A. E. No. 4 Flywheel Housing For In-Line Drive Duty (See NOTES 1 and 3)
1	266 681 R1	NUT, drive shaft (PT-732)
2	273 230 R1	WASHER, drive shaft lock (PT-733-2)
3	273 233 R1	BODY, clutch (CL-8490-10)
4	255 663 R1	RING, driving (CL-6951)

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(REV. NO. 1 10-66)

ATTACHMENTS



POWER TAKE-OFF - CONTINUED (Rockford)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
5	266 682 R1	FACING, clutch (one set includes three segments) (CL-6952)
6	268 958 R91	PLATE w/LOCK, 319 531 R1, pressure (UCL-9520)
7	319 531 R1	LOCK, adjusting (positive) (CL-9216-1)
8	347 871 R1	NUT, adjusting (CL-8494-1)
		NOTE 1: Factory Application - Order On Machine Order Form.
		NOTE 3: Field Application - Order Through Regular Service Parts Channels.

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ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - 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	273 235 R1	SLEEVE, release (CL-8558)
18	273 236 R91	BEARING w/two NUT, 258 370 R1 and PLUG, 103 883, release (UCL-5-7392)
19	273 232 R91	CLUTCH ASSY, (10") (CLA-2174-27) (Composed of - 1 BODY 273 233 R1 1 FACING 266 682 R1 3 LEVER 268 866 R1 1 LOCK 319 531 R1 6 LINK 266 696 R1 1 NUT 347 871 R1 3 PIN 266 694 R1 6 PIN 266 697 R1 1 PLATE 268 958 R91 1 PLATE 347 872 R1 3 RING 255 395 R1 1 RING 255 663 R1 6 RING 266 698 R1 1 SCREW 19 559 R1 1 SLEEVE w/BEARING 273 234 R91 3 SPRING 266 704 R1 1 SPRING 268 865 R91)
20	321 481 R1	PLATE, instruction (PT-1593) 1/4 x 3/8" rd-hd mach SCREW (2)
22	313 857 R1	HOUSING, clutch (together with TUBE, 267 054 R91, will work for 273 241 R2) (PT-300-30)
23	ST 977	CUP, tapered roller bearing (PT-832) (2)
23	62 923 R91	CONE, tapered roller bearing (PT-832) (2)
24	109 461	FITTING, 1/8" lubrication (Lincoln 5000) (PT-1012) (2)
25	266 667 R91	TUBE, flexible (used with HOUSING, 273 241 R2) (PT-1026-1)
25	267 054 R91	TUBE, flexible (Used with HOUSING, 313 857 R1) (PT-1026-3)
26		NUT, 5/8NF (CL-4355)
27	306 381 R1	SHAFT, drive (PT-1655)
28	306 382 R1	KEY (1/2 x 1/2 x 4-1/4") (PT-1051)
29	266 678 R1	KEY (PT-884)
30	273 243 R1	RETAINER, bearing (PT-1059)
31	266 661 R1	PLATE, lock (PT-44) 5/16 x 1/2" hex-hd cap SCREW 5/16" lock WASHER
32	266 665 R91	YOKE, clutch (UPT-811)
33	276 554 R1	SHAFT, yoke (PT-200)



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - CONTINUED (Rockford)		
34	124 553	KEY, No. 15 Woodruff (PT-351) (2)
35	258 676 R11	LEVER, shifting (UPT-769)
36	273 355	FITTING, lubricator grease (Alemite 1743B) (CL-5452) (2)
	305 861 R91	BEARING, clutch pilot
	258 370 R1	NUT, 5/16NF elastic stop (Esna-29E-054) (CL-7356) (2)
	103 883	PLUG, 1/8" slit-hd pipe (PT-989)
	19 559 R1	SCREW, 1/4 x 3/8" hex-hd cap (CL-8807-1)
		SCREW, 5/16 x 1/4" cup-pt set
		SCREW, 1/4 x 3/8" slit-hex-hd mach
		SCREW, 3/8 x 1-1/4" hex-hd cap (2)
		SCREW, 1/2 x 1-3/4" hex-hd cap
		SCREW, 5/16NF x 1-3/4" hex-hd cap (2)
	273 234 R91	SLEEVE, 273 235 R1 w/release BEARING, 273 236 R91 (UCL-3-8558)
	319 515 R91	POWER TAKE-OFF ASSY (will work for 305 480 R91) (PTA-41044) (Composed of - 1 BEARING 305 861 R91 1 CLUTCH 273 232 R91 2 CUP ST 977 2 CONE 62 923 R91 2 FITTING 109 461 2 FITTING 273 355 1 HOUSING 313 857 R1 2 KEY 124 553 1 KEY 266 678 R1 1 KEY 306 382 R1 1 LEVER 258 676 R11 1 NUT 266 681 R1 1 PLATE 266 661 R1 1 PLATE 321 481 R1 1 RETAINER 273 243 R1 1 SHAFT 276 554 R1 1 SHAFT 306 381 R1 1 TUBE 267 054 R91 1 WASHER 273 230 R1 1 YOKE 266 665 R91) 3/8 x 1" hex-hd cap SCREW (+) (12) 3/8 x 1-1/2" hex-hd cap SCREW (+) (8) 3/8" lock WASHER (+) (20)
		WASHER, 3/8" lock (2)
		WASHER, 1/2" lock
		WASHER, 1/4" (Shakeproof)
+ - For Mounting Clutch Housing And Pow Take-Off Assembly.		



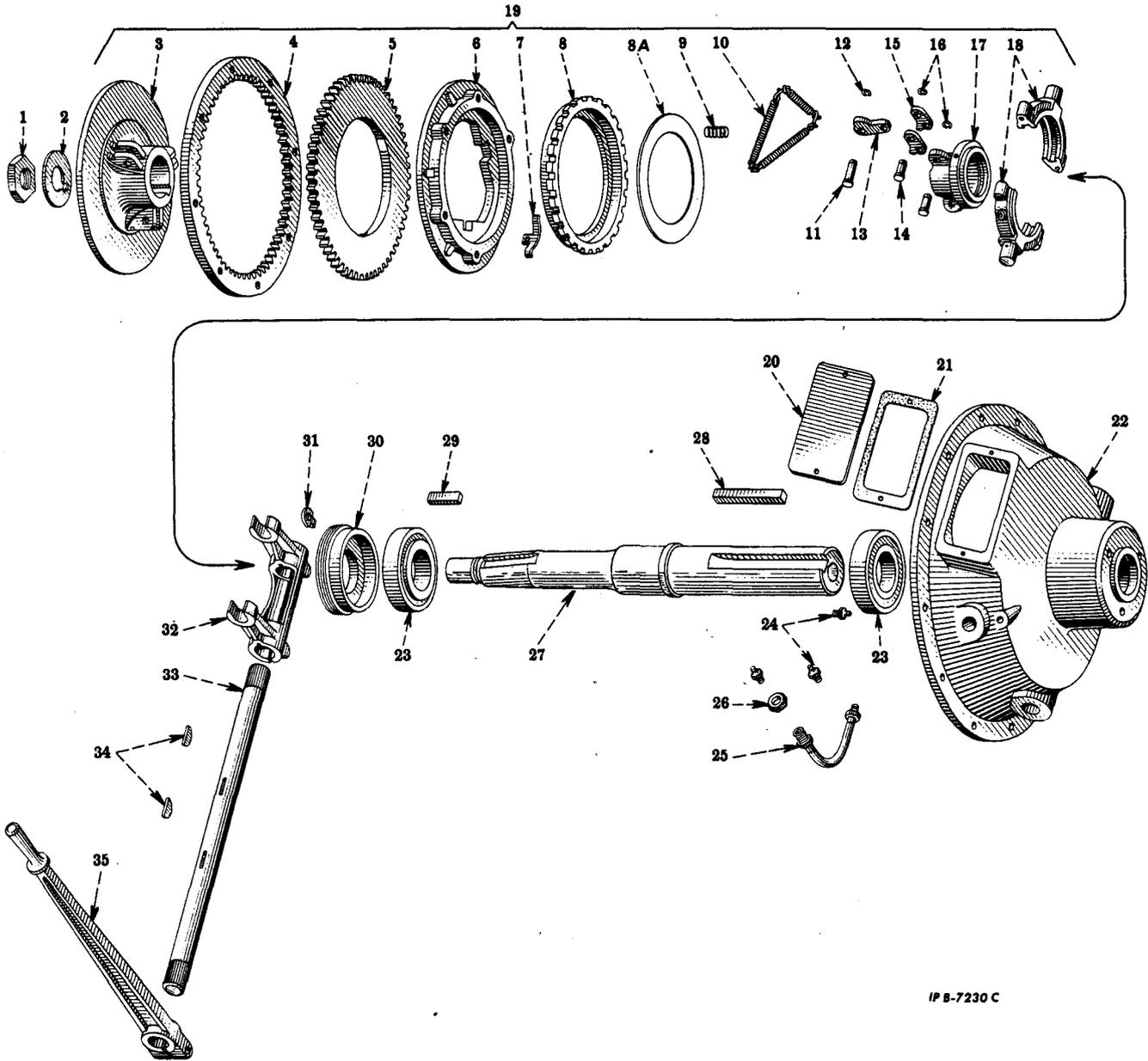
ATTACHMENTS

POWER TAKE-OFF (Rockford)



ATTACHMENTS

POWER TAKE-OFF - CONTINUED (Rockford)



IP B-7230 C

REF. NO.	I. H. PART NUMBER	DESCRIPTION
	273 017 R91	ATTACHMENT, power take-off, 319 503 R91 (with 10" single plateover-center drive ring type clutch) (for use with S. A. E. No. 3 Flywheel Housing) For Heavy Duty on UB-220 (See NOTES 1 and 3)
1	273 231 R1	NUT, hex. (PT-732-2)
2	273 230 R1	WASHER, lock (PT-733-3)
3	273 233 R1	BODY, clutch (CL-8490-10)
4	255 663 R1	RING, driving (CL-6951)

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(REV. NO. 1 10-66)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
5	266 682 R1	FACING, clutch (CL-6952)
6	268 958 R91	PLATE w/LOCK, 319 531 R1, pressure (UCL-9520)
7	319 531 R1	LOCK, adjusting (positive) (CL-9216-1)
8	347 871 R1	NUT, adjusting (CL-8494-1)

NOTE 1: Factory Application - Order On Machine Order Form.
NOTE 2: Field Application - Order Through Regular Service Parts Channels.

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ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - CONTINUED (Rockford)		
8A	347 872 R1	PLATE, adjusting ring (CL-11861)
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	273 235 R1	SLEEVE, release (CL-8558)
18	273 236 R91	BEARING w/two NUT, 258 370 R1 and PLUG 103 883, release (UCL-5-7392)
19	273 232 R91	CLUTCH ASSEMBLY, 10" (CLA-2174-27) (Composed of - 1 BODY 273 233 R1 1 FACING 266 682 R1 3 LEVER 268 866 R1 1 LOCK 319 531 R1 6 LINK 266 696 R1 1 NUT 347 871 R1 3 PIN 266 694 R1 6 PIN 266 697 R1 1 PLATE 268 958 R91 1 PLATE 347 872 R1 3 RING 255 395 R1 1 RING 255 663 R1 6 RING 266 698 R1 1 SCREW 19 559 R1 1 SLEEVE w/BEARING 273 234 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	273 238 R1	HOUSING, clutch (PT-993-1)
23	13 396 DC	CONE, tapered roller bearing (390) (2)
23	13 390 D	CUP, tapered roller bearing (394A) (2)
24	109 461	FITTING, 1/8" plug pipe (Lincoln 5000) (PT-1012) (3)
25	266 667 R91	TUBE, flexible (PT-1026-1)
26		NUT, 5/8NF hex.
27	319 536 R1	SHAFT, drive (PT-1356-3)
28	266 668 R1	KEY (PT-781)
29	266 678 R1	KEY (PT-884)
30	266 660 R1	RETAINER, bearing (PT-727)
31	266 661 R1	PLATE, lock (PT-44)
32	266 665 R91	YOKE, clutch (UPT-811)
33	266 662 R1	SHAFT, yoke (PT-201)
34	124 553	KEY, Woodruff No. 15 (PT-351) (2)
35	266 666 R91	LEVER, shifting (UPT-87) 3/8 x 1-1/2" hex-hd cap SCREW 3/8" lock WASHER



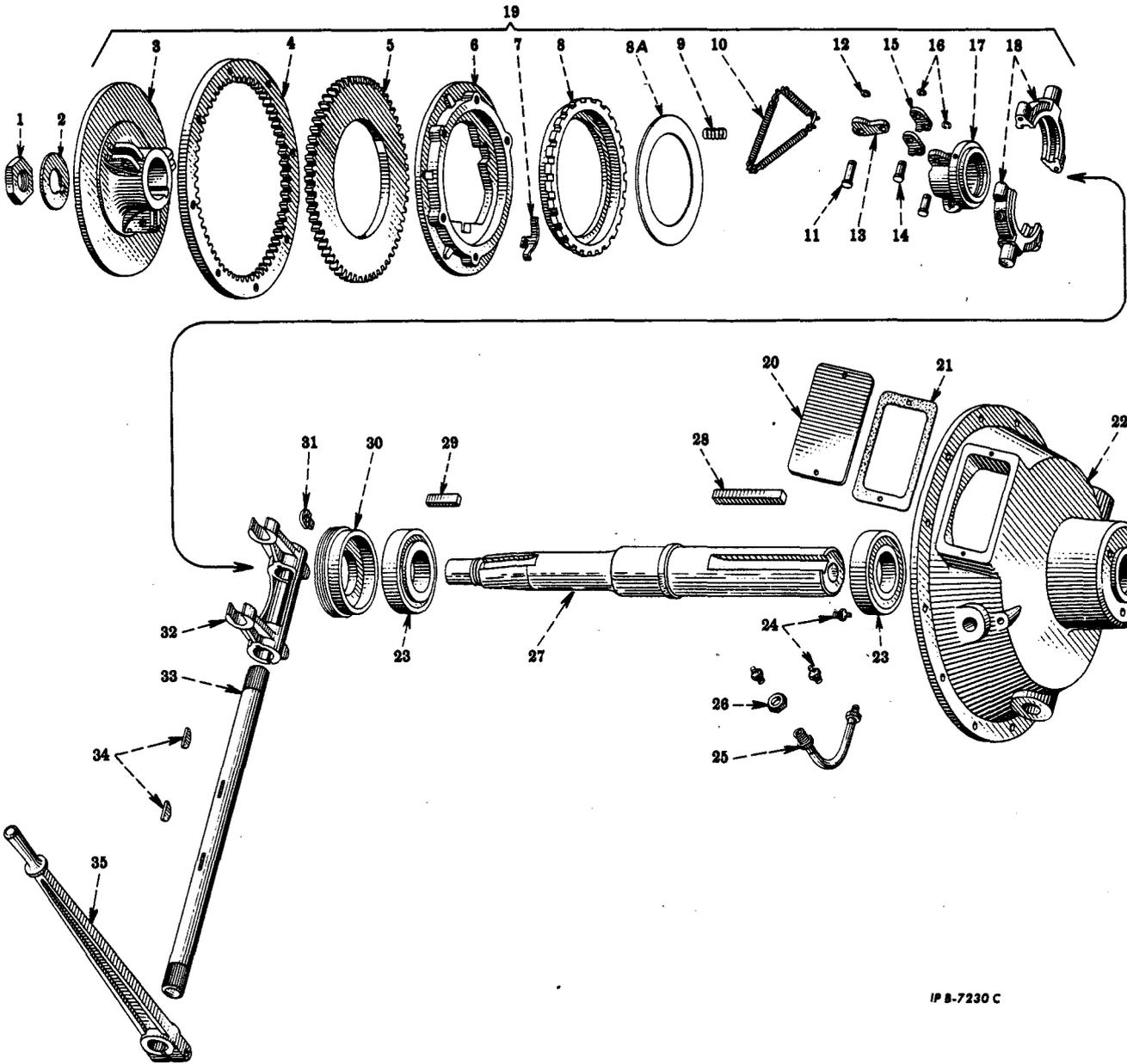
ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF - CONTINUED (Rockford)		
305 861 R91		BEARING, clutch pilot (optional with 338 543 R91)
338 543 R91		BEARING, clutch pilot (optional with 305 861 R91)
258 370 R1		NUT, 5/16NF elastic stop (ESNA-29E-054) (CL-7356) (2)
319 503 R91		POWER TAKE-OFF ASSEMBLY w/10" overcenter CLUTCH (will work for 273 015 R91) (PTA-31036) (Composed of - 1 CLUTCH 273 232 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 273 238 R1 2 KEY 124 553 1 KEY 266 668 R1 1 KEY 266 678 R1 1 LEVER 266 666 R91 1 NUT 273 231 R1 1 PLATE 266 661 R1 1 PLATE 321 481 R1 1 RETAINER 266 660 R1 1 SHAFT 266 662 R1 1 SHAFT 319 536 R1 1 TUBE 266 667 R91 1 WASHER 273 230 R1 1 YOKE 266 665 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) (+)
273 355		FITTING, 1/4" drive type hydraulic lubricator (Alemite 1743 B) (CL-5452) (2)
103 883		PLUG, 1/8" slt-hd. pipe (PT-989)
		SCREW, 1/4 x 3/8" rd-hd. mach. (2) SCREW, 1/4 x 3/8" fil-hd. SCREW, 3/8 x 1-1/4" hex-hd. cap (2) SCREW, 5/16 x 1/2" hex-hd. cap SCREW, 5/16NF x 1-3/4" hex-hd. cap (2) SCREW, 5/16 x 1/4" f-pt. set
19 559 R1		SCREW, 1/4 x 3/8" hex-hd cap (CL-8807-1)
273 234 R91		SLEEVE, 273 235 R1, w/release BEARING, 273 236 R91 (UCL-3-8558) WASHER, 5/16" lock WASHER, 3/8" lock (2) WASHER, 1/4" (Shakeproof)
(+) - For Mounting Clutch And Power Take-Off Assembly.		



ATTACHMENTS

POWER TAKE-OFF WITH STANDARD SHAFT
(Rockford)



IP 8-7230 C

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	273 019 R92	ATTACHMENT, power take-off w/standard shaft (11-1/2" overcenter drive ring type clutch) (for use with S.A.E. No. 3 Flywheel Housing) (for Heavy Duty on UB-240 and UB-264) (Consists of BEARING, 305 861 R91, POWER TAKE-OFF, 319 524 R91 and SPACER, 265 636 R1) (see NOTES 1 and 3)
1	266 681 R1	NUT, hex. (PT-732)
2	273 212 R1	WASHER, lock (PT-733-4)

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ATTACHMENTS

POWER TAKE-OFF WITH STANDARD SHAFT - CONTINUED
(Rockford)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
3	273 214 R1	BODY, clutch (CL-8498-7)
4	267 065 R1	RING, driving (CL-6950)
5	338 903 R1	FACING, clutch (CL-6953-52)
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Through Regular Service Parts Channels.

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ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF WITH STANDARD SHAFT - CONTINUED (Rockford)		
6	268 861 R91	PLATE w/LOCK, 319 531 R1, pressure (UCL-9518)
7	319 531 R1	LOCK, positive (CL-9216)
8	347 871 R1	NUT, adjusting (CL-8494-1)
8A	347 872 R1	PLATE, adjusting ring (CL-11861)
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)



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
POWER TAKE-OFF WITH STANDARD SHAFT - CONTINUED (Rockford)		
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)
	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
	3	CUP 13 390 D
	2	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" slit-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.	I. H. PART NUMBER	DESCRIPTION
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POWER TAKE-OFF (Twin-Disc)

Parts without letters after the description indicate the part is used for all attachments listed below: Letters "A" through "F" are used to identify separate attachments.

- A 266 818 R92 ATTACHMENT, power take-off (w/11-1/2" single plate overcenter drive ring type clutch) (for use with S.A.E. No. 3 flywheel housing) (for heavy duty on UB-240 and UB-264) (see NOTES 1 and 3)
- B 273 018 R91 ATTACHMENT, power take-off (w/10" single plate overcenter drive ring type clutch) (for use with S.A.E. No. 3 flywheel housing) (for heavy duty on UB-220) (see NOTES 1 and 3)
- C 305 681 R91 ATTACHMENT, power take-off (w/8" single plate overcenter drive ring type clutch) (for use with S.A.E. No. 4 flywheel housing) (for regular or in-line drive duty on UB-220) (see NOTES 1 and 3)
- D 305 684 R91 ATTACHMENT, power take-off (w/10" single plate overcenter drive ring type clutch) (for use with S.A.E. No. 4 flywheel housing) (for regular or in-line drive duty on UB-240 and UB-264) (for heavy duty on UB-220) (see NOTES 1 and 3)
- E 345 345 R91 ATTACHMENT, high speed power take-off (w/11-1/2" single plate overcenter drive ring clutch, 2-1/4" dia shaft w/sealed for life cartridge type pilot bearing - P.T.O shaft has no rifle drill) (for heavy duty and side-load applications w/PTO speeds above 2200 rpm) (for UB-240 and UB-264) (for use with S.A.E. No. 3 flywheel housing and proper flywheel) (see NOTES 1 and 3)
- F 345 346 R91 ATTACHMENT, high speed power take-off (w/11-1/2" single plate overcenter drive ring clutch, 2-1/4" dia. shaft w/sealed for life cartridge type pilot bearing - PTO shaft has no rifle drill) (for heavy duty and side-load applications w/PTO speeds above 2200 rpm) (includes safety shut-off) (for use with S.A.E. No. 3 flywheel housing and proper flywheel) (for UB-240 and UB-264) (see NOTES 1 and 3)
- 321 050 R91 POWER TAKE-OFF ASSY (will work for 305 473 R91) (Twin-Disc) (Spec. No. 24616) (Attachment C) (*)
 3/8 x 1" hex-hd cap SCREW (+) (12)
 3/8 x 1-3/8" hex-hd cap SCREW (+) (6)
 3/8" lock WASHER (+) (18)
- 321 053 R91 POWER TAKE-OFF ASSY (will work for 305 478 R91) (Twin-Disc) (Spec. No. 27041) (Attachment D) (*)
 3/8 x 1" hex-hd cap SCREW (+) (12)
 3/8 x 1-1/2" hex-hd cap SCREW (+) (8)
 3/8" lock WASHER (+) (20)
- 321 054 R91 POWER TAKE-OFF ASSY (will work for 265 817 R91) (Twin-Disc) (Spec. No. 23712) (Attachment B) (*)
 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)
- 321 057 R91 POWER TAKE-OFF ASSY (will work for 266 828 R91) (Twin-Disc) (Spec. No. 26769) (Attachment A) (*)
 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)



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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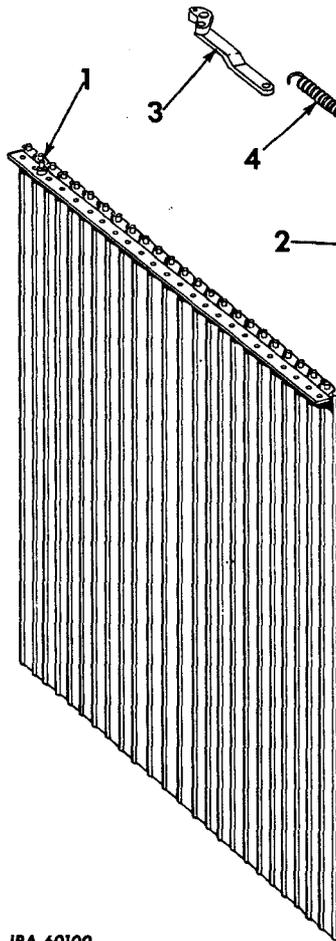
POWER TAKE-OFF - CONTINUED (Twin-Disc)

- 346 882 R91 POWER TAKE-OFF ASSY w/standard shaft assy (Twin Disc) (Spec. No. 30287) (Attachments E and F) (*)
 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)
 - ST 301 BEARING, clutch pilot (Attachment C)
 - 305 861 R91 BEARING, clutch pilot (optional with 338 543 R91) (Attachments A, B and D)
 - 338 543 R91 BEARING, clutch pilot (optional with 305 861 R91) (Attachments A, B and D)
 - 345 347 R91 CABLE, temperature switch to junction block (Attachment F)
 - 366 460 R1 CLIP, cable (mount on power take-off bolts) (2 for Attachment F)
 - 183 350 R91 SWITCH, temperature (250°) (Attachment F)
- + - For Mounting Clutch And Power Take-Off Assembly.
 * - Order Detail Service Parts From Nearest Twin-Disc Distributor.
 NOTE 1 - Factory Application - Order On Machine Order Form.
 NOTE 3 - Field Application - Order Through Regular Service Parts Channels.



ATTACHMENTS

RADIATOR SHUTTER
(Hardy Mfg. Corp.)



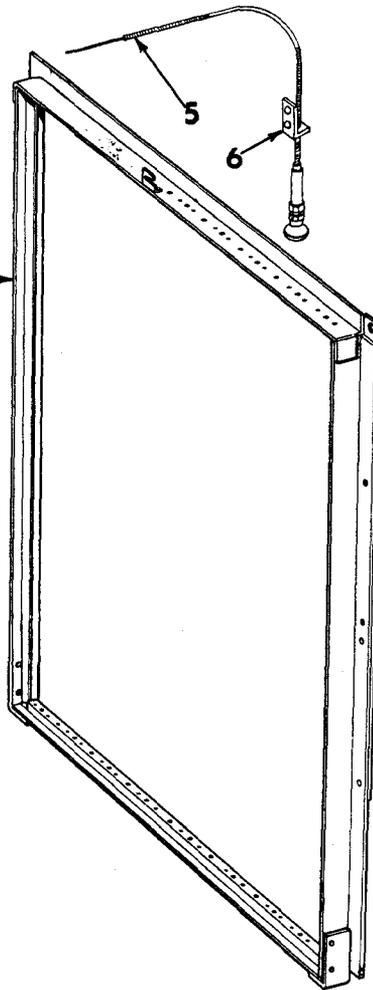
IPA-60100

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	312 184 R91	ATTACHMENT, radiator shutter (see NOTES 1 and 3)
1	317 781 R91	SHUTTER w/operating BAR (27817) 1/4" NUT (4) 1/4 x 5/8" slt-rd-hd mach SCREW (4) 1/4" lock WASHER (4)
2		FRAME (not furnished separately)
3	317 680 R91	BELLCRANK w/operating LINK (27811)
4	47 530 D	SPRING, bellcrank (15549)
5	313 224 R91	CONTROL, vernier 1/4NF x 1/2" ov-pt hex-soc-hd set 1/4NF NUT
6	312 185 R1	BRACKET, shutter control 3/8 x 1" hex-hd cap SCREW



ATTACHMENTS

RADIATOR SHUTTER - CONTINUED
(Hardy Mfg. Corp.)



REF. NO.	I.H. PART NUMBER	DESCRIPTION
	313 225 R91	SHUTTER ASSEMBLY, manual (27745) (Composed of -
		1 BELLCRANK w/LINK 317 680 R91
		§ 1 FRAME
		1 SHUTTER w/BAR 317 781 R91
		1 SPRING 47 530 D
		1 WASHER 352 627 R1)
		5/16 x 1/2" hex-hd cap SCREW(8)
		5/16" lock WASHER (8)
		NUT, No. 10
		SCREW, No. 10 x 9/16 rd-hd mach
		WASHER, No. 10 internal-tooth lock
	352 627 R1	WASHER, .325 x 5/8" flat (13371)
		3/32 x 5/8" cotter PIN
		§ - Not Furnished Separately.
		NOTE 1 - Factory Application - Order On Machine Order Form.
		NOTE 3 - Field Application - Order Thru Regular Service Parts Chan.

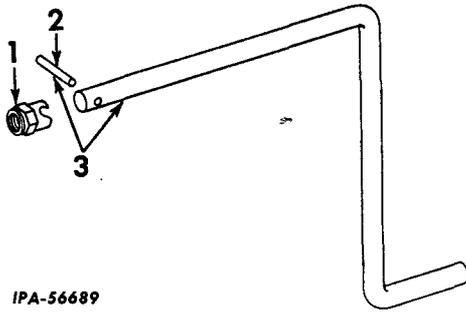


ATTACHMENTS



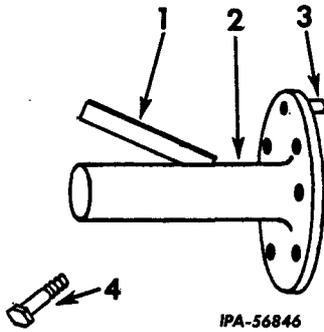
MEMORANDA

STARTING CRANK



REF. NO.	I. H. PART NUMBER	DESCRIPTION
	305 816 R91	ATTACHMENT, starting crank (See NOTES 1 and 3)
1	35 667 H	CRANKNUT, starting
2	15 204 D	PIN, starting crank
3	271 705 R91	CRANK w/PIN, 15 204 D, starting

STUB SHAFT



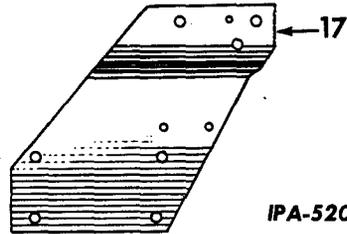
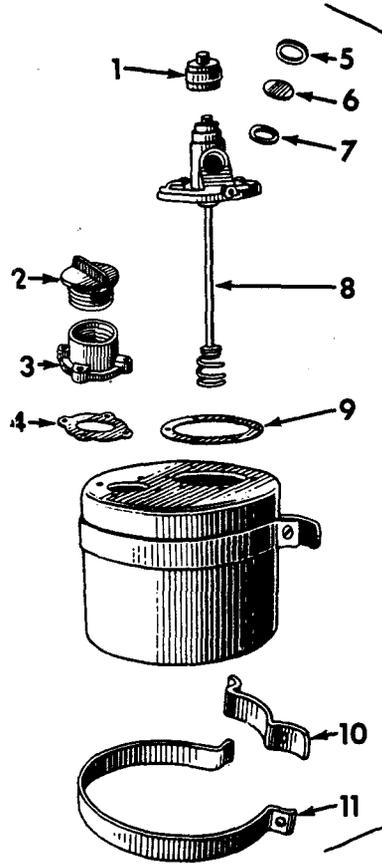
REF. NO.	I. H. PART NUMBER	DESCRIPTION
	305 698 R91	ATTACHMENT, stub shaft (Direct connected (See NOTES 1 and 3) for use with - Industrial Flywheel for 8" and 10" clutch (S.A.E. No. 4 Flywheel Housing) Industrial Flywheel for 10" and 11-1/2" clutch (S.A.E. No. 3 Flywheel Housing) (Consists of the following parts -)
1	29 308 D	KEY, belt pulley
2	305 699 R91	SHAFT w/DOWEL, 305 700 R1
3	305 700 R1	DOWEL, stub shaft
4		BOLT, 7/16 x 2-1/8" type AA hex. lock (6)

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



ATTACHMENTS

TOP CYLINDER OILER
(Emerol Manufacturing Company's "Marvel" Oiler)



IPA-52096

REF. NO.	I. H. PART NUMBER	DESCRIPTION
	305 707 R91	ATTACHMENT, top cylinder oiler (See NOTES 1 and 3)
1	38 976 D	CAP, head (T-5-1)
2	261 518 R1	PLUG, filler (T-56-6)
3	261 517 R1	BODY, filler (T-56-5) No. 8 x 5/8" slt-fil-hd. SCREW (4)
4	38 974 D	GASKET, filler body (T-16-33)
5	39 824 D	NUT, sight glass lock (T-81-10)
6	39 822 D	GLASS, sight (plastacele) (T-62-1)
7	39 823 D	GASKET, sight glass (T-16-5)
8	38 970 D	HEAD (T-10-510) No. 8 x 5/8" slt-fil-hd. SCREW (6)
9	38 975 D	GASKET, head to tank (T-18-10)
10	38 972 D	SADDLE (T-118-6) (2) No. 10NF x 1/2" slt-rd-hd. SCREW (4)
11	38 971 D	STRAP (T-118-5) (2)
12	36 087 DA	OILER, top cylinder (Emerol Company's "Marvel Inverse" Oiler) (Model "TU") (Composed of - 1 BODY 261 517 R1 1 CAP 38 976 D)



ATTACHMENTS

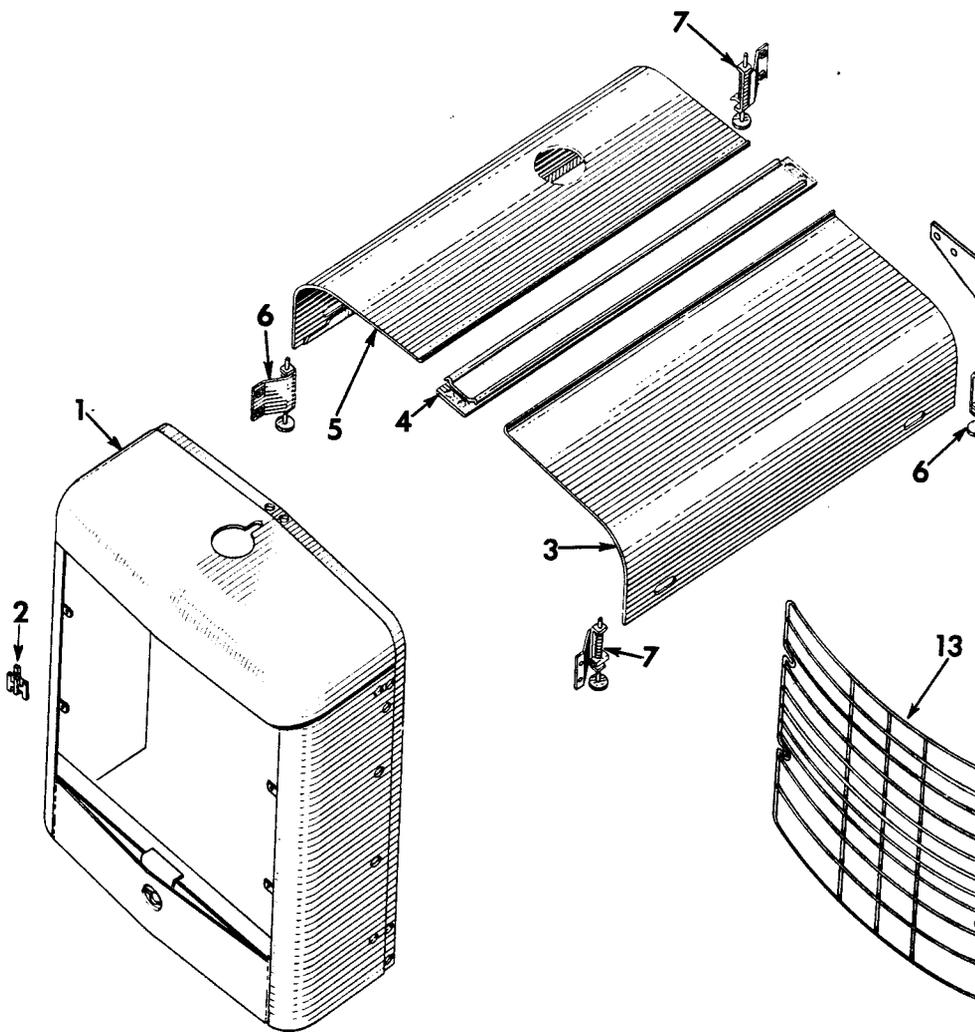
TOP CYLINDER OILER - CONTINUED
(Emerol Manufacturing Company's "Marvel" Oiler)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
12	36 087 DA	OILER, top cylinder (Emerol Company's "Marvel Inverse" Oiler) (Model "TU") (Composed of - Continued 1 GASKET 38 974 D 1 GASKET 38 975 D 1 GASKET 39 823 D 1 GLASS 39 822 D 1 HEAD 38 970 D 1 NUT 39 824 D 1 PLUG 261 518 R1 2 SADDLE 38 972 D 2 STRAP 38 971 D) No. 10 NUT (4) No. 10 slt-fil-hd. SCREW (4) No. 10 lock WASHER (4)
13	36 637 DX	ELBOW, top cylinder oiler tube (at oiler)
14	36 092 D	NUT, top cylinder oiler tube coupling (2)
15	305 715 R1	TUBE, top cylinder oiler
16	59 939 DX	CONNECTOR, male top cylinder oiler tube (at manifold)
17	305 708 R1	SUPPORT, top cylinder oiler 7/16 x 1" hex-hd. cap SCREW 7/16 x 1-1/4" hex-hd. cap SCREW (2) 7/16" lock WASHER (3)
		NOTE 1: Factory Application - Order On Machine Order Form.
		NOTE 3: Field Application - Order Thr Regular Service Parts Channe



ATTACHMENTS

RADIATOR GRILLE, HOOD AND DASH



IPA-56852A

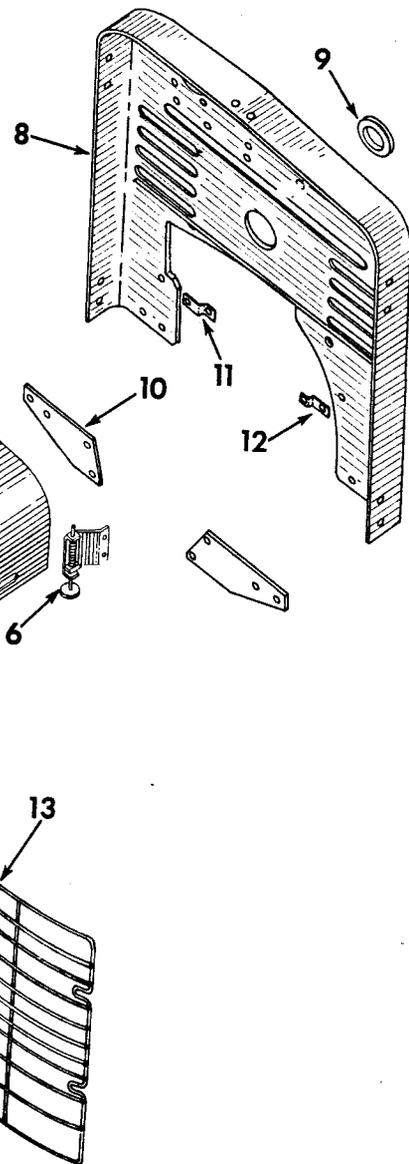
REF. NO.	I. H. PART NUMBER	DESCRIPTION
(X) - KEY TO UNITS -		
A -	320 136 R91	ATTACHMENT, radiator grille (Hi-Flow) (not for use w/Radiator Shutter Attachment) (See NOTES 1 and 3)
B -	320 137 R91	ATTACHMENT, radiator grille (Hi-Flow) (For use w/Radiator Shutter Attachment) (See NOTES 1 and 3)
C -	305 669 R91	ATTACHMENT, hood and dash (for use with S.A.E. No. 4 Flywheel Housing) (*)
D -	308 244 R91	ATTACHMENT, hood and dash (for use with S.A.E. No. 3 Flywheel housing) (*)

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ATTACHMENTS

RADIATOR GRILLE, HOOD AND DASH - CONTINUED



REF. NO.	I. H. PART NUMBER	DESCRIPTION
E	349-224 R91	ATTACHMENT, hood and dash (for use with S.A.E. Nos. 3 and 4 flywheel housing) (see NOTES 1 and 3)
(X) - Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
* - Attachment No Longer Available. Service Parts Will Be Furnished.		
NOTE 1 - Factory Application - Order On Machine Order Form.		
NOTE 3 - Field Application - Order Through Regular Service Parts Channels.		

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ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
RADIATOR GRILLE, HOOD AND DASH - CONTINUED		
1	320 138 R11	HOUSING, radiator grille (Unit A)
1	320 140 R91	HOUSING, radiator grille (Unit 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" (Units A and B) FASTENER, "IH" emblem (2 for Units A and B)
3	265 581 R1	HOOD, LH engine (Units B, D and E)
4	268 390 R11	STRIP, hood center (Units B, D and E) 3/8" NUT (4) 3/8 x 5/8" hex-hd cap SCREW (4) 3/8" lock WASHER (4)
5	305 672 R1	HOOD, RH engine (Units B, D and E)
6	265 586 R91	HOOK, RH hood clamp (2 for Units B, D and E) 5/16 x 1/2" hex-hd cap SCREW (4) 5/16" lock WASHER (4)
7	265 585 R91	HOOK, LH hood clamp (2 for Units B, D and E) 5/16 x 1/2" hex-hd cap SCREW (4) 5/16" lock WASHER (4)
8	305 670 R11	DASH (Unit C)
8	308 245 R11	DASH (Unit D) 3/8 x 3/4" hex-hd cap SCREW (5) 3/8" lock WASHER (5)
8	349 146 R1	DASH (Unit E) 3/8" NUT (3) (for use with 3/8 x 3/4" hex-hd (dry type cap SCREW (3) (air cleaner 3/8" lock WASHER (3) 3/8" NUT (2) (When instrument 3/8 x 3/4" hex-hd cap (panel attachment SCREW (2) (is not rear 3/8 x 3/8" hex-hd cap (mounted. SCREW (2) 3/8" lock WASHER (4)
9	38 056 D	GROMMET, dash (Units C and D)
10	305 675 R1	SUPPORT, dash (2 for Units D and E) 3/8" NUT (4) 3/8 x 3/4" hex-hd cap SCREW (4) 3/8" lock WASHER (4)
11	305 674 R1	BRACE, RH dash (Unit C) 3/8" NUT 3/8 x 5/8" hex-hd cap SCREW 3/8" lock WASHER
12	305 673 R1	BRACE, LH dash (Unit C) 3/8" lock WASHER 3/8 x 5/8" hex-hd cap SCREW 3/8" NUT
13	320 139 R1 321 719 R91 354 837 R1	GRILLE, Hi-Flow (Units A and B) BOLT, grille (4) WASHER, flat (4)
13	304 600 R91	GRILLE, radiator (order 320 163 R91) (Unit B)
13	304 600 R91	GRILLE, radiator (order 320 149 R91) (Unit A) 5/16 x 1/2" hex-hd cap SCREW (8) 5/16" lock WASHER (8)



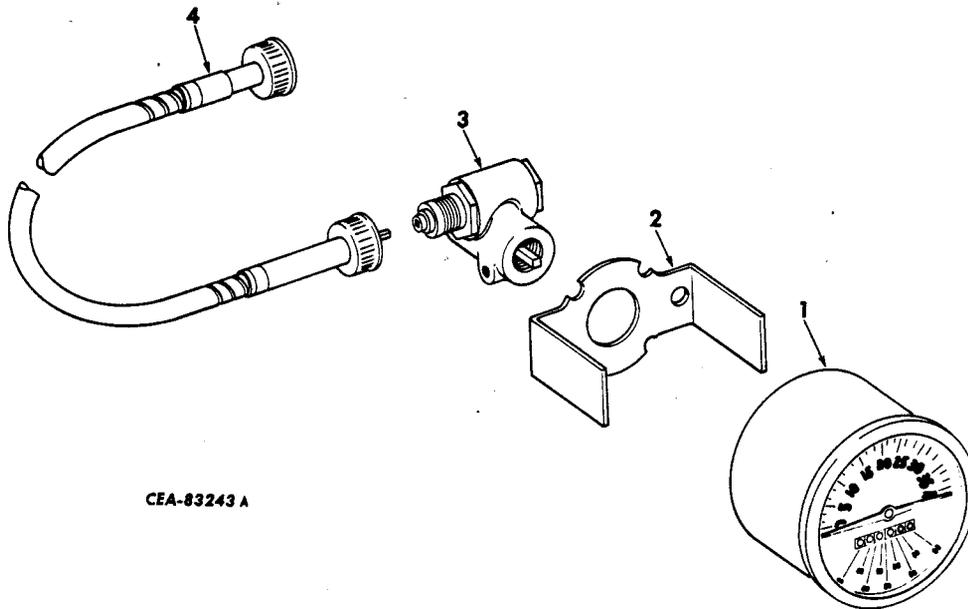
ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
RADIATOR GRILLE, HOOD AND DASH - CONTINUED		
	320 149 R91	PACKAGE, radiator grille field service (consists of HOUSING, 320 138 R11, GRILLE, 320 139 R1, four BOLT, 321 719 R91 and four WASHER, 354 837 R1) (will work for 304 600 R91) (Unit A)
	320 163 R91	PACKAGE, radiator grille field service (Consists of HOUSING, 320 140 R91, GRILLE, 320 139 R1, four BOLT, 321 719 R91 and four WASHER, 354 837 R1) (will work for 304 600 R91) (Unit B)
X - As Required.		



ATTACHMENTS

TACHOURMETER
(Mechanical)



CEA-83243 A

REF. NO.	I. H. PART NUMBER	DESCRIPTION
	349 135 R92	ATTACHMENT, tachourmeter (For use with units equipped with Instrument and Panel Attachment, 349 132 R91 or 349 133 R91 and Ignition Distributor (Delco-Remy No. 1112742) (see NOTES 1 and 3)
1	338 595 R91	TACHOURMETER (A. C. 1549195)
2	263 297 R2	CLAMP, tachourmeter mounting No. 10 lock WASHER (2) No. 10 NUT (2)



ATTACHMENTS

TACHOURMETER - CONTINUED
(Mechanical)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
3	310 661 R91	JOINT, right angle drive
4	347 608 R91	CABLE, tachourmeter drive (27-1/2" long) (optional with 347 607 R91)
4	347 607 R91	CABLE, tachourmeter drive (27-1/2" long) (optional with 347 608 R91)
	301 642 R1	CLIP, tachourmeter drive cable

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

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



ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
THROTTLE AND CHOKE CONTROLS-		
(X)		KEY TO UNITS -
A -	305 701 R91	ATTACHMENT, throttle and choke controls (for gasoline burning units equipped with Velocity Governor) (for use with Instruments and Panel Attachment) (*)
B -	305 702 R91	ATTACHMENT, throttle and choke controls (for liquefied petroleum gas and natural gas burning units equipped with Velocity Governor) (for use with Instruments and Panel Attachment) (*)
C -	323 798 R91	ATTACHMENT, governor and choke controls (for use with Mechanical Governor) (*)
D -	349 221 R91	ATTACHMENT, throttle and choke controls (for liquefied petroleum gas and natural gas burning units equipped with Velocity Governor) (see NOTES 1 and 3)
E -	349 222 R91	ATTACHMENT, governor and choke controls (for use with Mechanical Governor) (see NOTES 1 and 3)
F -	349 223 R91	ATTACHMENT, rear mounted throttle and choke controls (for gasoline burning units equipped with Velocity Governor) (see NOTES 1 and 3)
(X)		Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.
	323 825 R1	BRACKET, throttle control (Unit C)
	220 712 R1	BOLT, "U" 1/4NF NUT (2) 1/4" lock WASHER (2)
	275 965 R1	CLAMP, control wire (3 for Unit A, 2 for Units B and F, 1 for Unit D) No. 10 NUT (3 for Unit A, 2 for Units B and F, 1 for Unit D) No. 10 x 1/2" slt-fil-hd SCREW (3 for Unit A, 2 for Units B and F, 1 for Unit D) No. 10 lock WASHER (3 for Unit A, 2 for Units B and F, 1 for Unit D)
	61 320 D	CLAMP, control wire (Units B and D) No. 10 NUT No. 10 x 1/2" slt-fil-hd SCREW No. 10 lock WASHER
	323 799 R1	CLAMP, throttle control mounting (Unit C) No. 10 NUT (2) No. 10 x 7/8" slt-fil-hd SCREW (2) No. 10 lock WASHER (2)
	262 119 R1	CLIP, cable (Unit C)
	23 125 D	CLIP, throttle control wire (Unit E) (Used with Wire, 304 479 R92) 3/8" NUT 3/8 x 3/4" hex-hd cap SCREW 3/8" lock WASHER 13/32 x 13/16" x 16 ga WASHER
	62 788 D	CLIP, throttle control wire (Unit E) (Used with WIRE, 304 479 R92) 5/16 x 5/8" hex-hd cap SCREW 5/16" lock WASHER
	258 079 C1	GROMMET, throttle control wire (Unit E) (Used with WIRE, 304 479 R92)



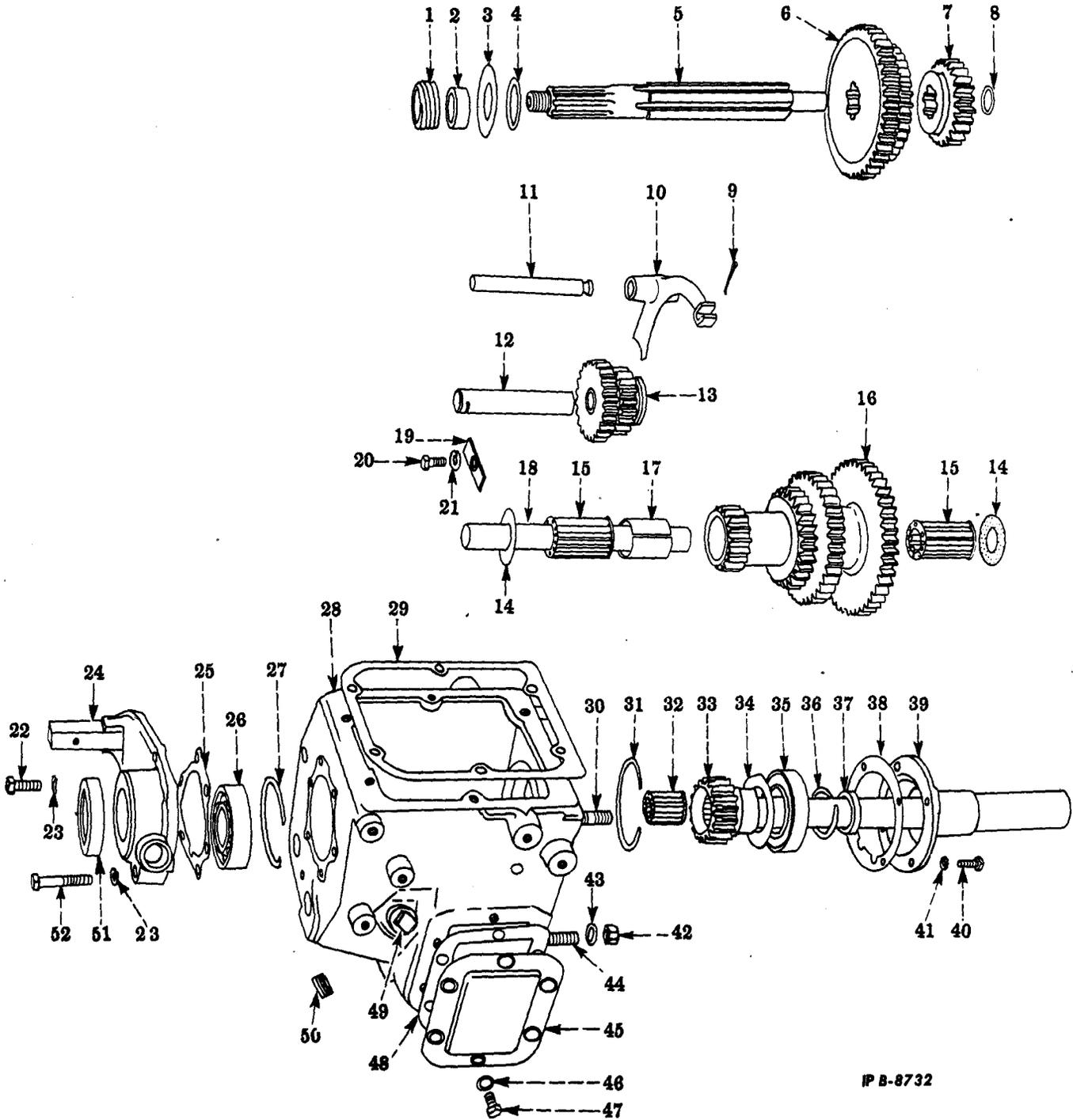
ATTACHMENTS

REF. NO.	I.H. PART NUMBER	DESCRIPTION
THROTTLE AND CHOKE CONTROLS - CONTINUED		
	276 835 R91	JOINT, governor control wire ball (Unit C) (Unit E) UB-220, UB-240, UB-264 501 to #) 1/4NF NUT 1/4NF hex jam NUT 3/8" lock WASHER (Unit E)
	148 564	JOINT, governor control wire ball (Unit E) UB-220, UB-240, UB-264 # Up
	305 710 R1	SUPPORT, throttle control wire clamp (front) (Units A and F)
	305 705 R11	SUPPORT, throttle control wire (Units B and D)
	305 711 R1	SUPPORT, control wire clamp (center)
	305 712 R1	SUPPORT, control wire clamp (rear) (Units A, B and C)
	305 886 R1	SUPPORT, throttle control wire (Unit E) (Used with WIRE, 304 479 R92) 5/16 x 3/4" hex-hd cap SCREW 5/16" lock WASHER
	275 900 R1	SWIVEL, throttle lever
	363 881 R1	RETAINER, spring No. 8 x 1/4" slt-fil-hd SCREW (cd or zn-pltd.)
	312 433 R91	WIRE, choke control (Unit A)
	312 428 R91	WIRE, choke control (Units B, C, D, E and F)
	305 114 R92	WIRE, throttle control (Unit E) UB-220, UB-240, UB-264 501 to #
	305 488 R91	WIRE, throttle control (Unit A)
	253 821 R92	WIRE, throttle control (Units B and D)
	279 084 R93	WIRE, throttle control (Unit F)
	313 349 R92	WIRE, throttle control (Unit C)
	304 479 R92	WIRE, throttle control (Unit E) UB-220, UB-240, UB-264 # Up
		# - Serial Number Not Yet Av; * - Attachment No Longer Av; Parts Only Will Be Furn NOTE 1 - Factory Application Machine Order Fo NOTE 3 - Field Application Regular Service



ATTACHMENTS

TRANSMISSION LESS CONTROL HOUSING
(Motor Truck T-10, Four Speed Selective Sliding Gear)
(UB-220)



IP B-8732



ATTACHMENTS

TRANSMISSION LESS CONTROL HOUSING - CONTINUED
(Motor Truck T-10, Four Speed Selective Sliding Gear)
(UB-220)



ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
TRANSMISSION LESS CONTROL HOUSING - CONTINUED (Motor Truck T-10, Four Speed Selective Sliding Gear) (UB-220)		
305 887 R91		ATTACHMENT (Motor Truck T-10, four speed selective sliding gear) transmission (See NOTES 1 and 3) (for use with 11" spring loaded clutch and motor truck flywheel and flywheel housing) (UB-220) (Consists of TRANSMISSION GEAR BOX ASSEMBLY, 77 183 R94, CONTROL LEVER HOUSING ASSEMBLY, 179 193 R91, Speedometer Opening Plug Gasket, 14 188 H and Speedometer Opening Plug Gasket, 14 188 H and Speedometer opening Plug, 14 189 H)
77 183 R94		TRANSMISSION ASSEMBLY less control HOUSING (Part of Attachment 305 887 R91)
137 103 H		GASKET SET
1	26 836 H	GEAR, speedometer drive
2	27 132 HA	SPACER, speedometer gear
3	27 090 H	SLINGER, mainshaft rear bearing oil
4	27 088 H	WASHER, mainshaft rear bearing thrust
5	27 068 HB	SHAFT, main
6	72 975 H	GEAR, mainshaft first and second
7	62 899 H	GEAR, mainshaft third and direct
8	27 087 H	RING, mainshaft pilot bearing spacing
9		PIN, 1/8 x 1-1/4" cotter
10	27 118 H	FORK, reverse speed shift
11	27 083 H	BAR, reverse speed shift fork
12	27 079 H	SHAFT, reverse idler gear
13	62 902 HBX	GEAR w/BUSHING, reverse idler
14	95 854 H	WASHER, countershaft gear thrust (2)
15	23 172 H	BEARING, countershaft gear roller (2)
16	72 976 H	GEAR, countershaft
17	27 091 H	SPACER, countershaft gear bearing
18	27 069 H	SHAFT, counter
19	27 082 H	PLATE, reverse idler gear and countershaft lock
20		SCREW, 3/8 x 3/4" hex-hd. cap
21		WASHER, 3/8" lock
22		SCREW, 3/8 x 1" hex-hd. cap (4)
23		WASHER, 3/8" lock (5)
24	27 072 HDY	RETAINER w/BUSHING And SEAL, mainshaft rear bearing
25	27 116 HA	GASKET, mainshaft rear bearing retainer
26	ST 291	BEARING, mainshaft rear
27	27 073 H	RING, mainshaft rear bearing snap
28	82 714 R92	CASE w/STUDS
29	27 122 H	GASKET, control lever mounting
30	78 893 H	STUD, transmission mounting (upper) (2)



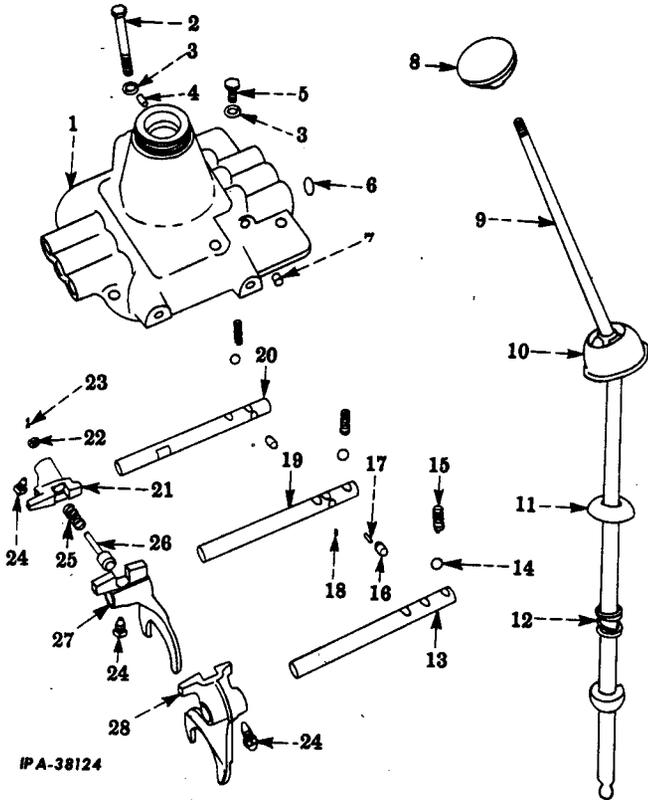
ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
TRANSMISSION LESS CONTROL HOUSING - CONTINUED (Motor Truck T-10, Four Speed Selective Sliding Gear) (UB-220)		
31	27 071 H	RING, main drive gear bearing snap (inner)
32	27 009 H	BEARING, mainshaft pilot
33	72 978 H	GEAR main drive
34	27 089 H	SLINGER, main drive gear oil
35	ST 201	BEARING, main drive gear
36	27 086 H	RING, main drive gear bearing snap (outer)
37	109 119 R91	SEAL, main drive gear bearing retainer
38	27 110 H	GASKET, main drive gear bearing retainer
39	82 919 R21	RETAINER w/SEAL, main drive gear bearing
40		SCREW, 5/16 x 7/8" hex-hd. cap (4)
41		WASHER, 5/16" external lock (4)
42		NUT, 1/2NF (4)
43		WASHER, 1/2" lock (4)
44	78 893 H	STUD, transmission mounting (lower) (2)
45	23 045 H	COVER, power take-off opening
46		WASHER, 3/8" lock (6)
47		SCREW, 3/8 x 3/4" hex-hd. cap (6)
48	111 082 R1	GASKET, power take-off opening cover
49	143 999	PLUG, 3/4" ctsk-hd. pipe
50	16 845 R1	PLUG, 3/4" sq-hd. pipe
51	59 586 R91	SEAL
52		SCREW, 3/8 x 2" hex-hd. cap



ATTACHMENTS

TRANSMISSION CONTROL HOUSING WITH LEVER ASSEMBLY (UB-220)



REF. NO.	I.H. PART NUMBER	DESCRIPTION
	179 193 R91	HOUSING ASSEMBLY, transmission control lever (part of attachment, 305 887 R91)
1	62 905 H	HOUSING, control lever
2	72 131 R1	BOLT, control housing mounting hex-hd., (2)
3		WASHER, 3/8" lock (6)
4	27 085 HA	PIN, control lever locating
5		SCREW, 3/8 x 3/4" hex-hd. cap (4)
6	73 130 R1	PLUG, control lever housing expansion (6)
7	36 563 H	PLUG, shift bar poppet hole
8	218 306 R1	BALL, control lever
9	167 618 R91	LEVER ASSEMBLY
10	72 218 H	COVER, control lever, dust
11	72 219 H	WASHER, control lever spring
12	27 098 HA	SPRING, control lever
13	27 119 HA	BAR, shift (first and second)
	16 012 R1	BALL, 3/8" shift bar poppet (3)



ATTACHMENTS

TRANSMISSION CONTROL HOUSING WITH LEVER ASSEMBLY - CONTINUED (UB-220)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
15	23 074 H	SPRING, shift bar poppet (3)
16	27 096 H	PLUNGER, shift bar interlock (2)
17	27 104 H	PIN, shift bar interlock plunger
18	27 105 H	STOP, shift bar interlock plunger pin
19	27 120 HAX	BAR w/PIN, shift (third and direct)
20	27 121 HA	BAR, reverse shift
21	62 894 HB	BLOCK, reverse shift
22		NUT, 1/4NF sltd.
23		PIN, 1/16 x 1" cotter
24	23 079 H	SCREW, set, shift fork (3)
25	62 892 HC	SPRING, reverse shift block plunger
26	62 893 H	PLUNGER, reverse shift block
27	27 111 HA	FORK, shift (third and direct)
28	27 112 HA	FORK, shift (first and second)
	14 188 H	GASKET, speedometer opening plug (not part of control lever housing assembly)
	14 189 H	PLUG, speedometer opening (not part of control lever housing assembly)



MEMORANDA

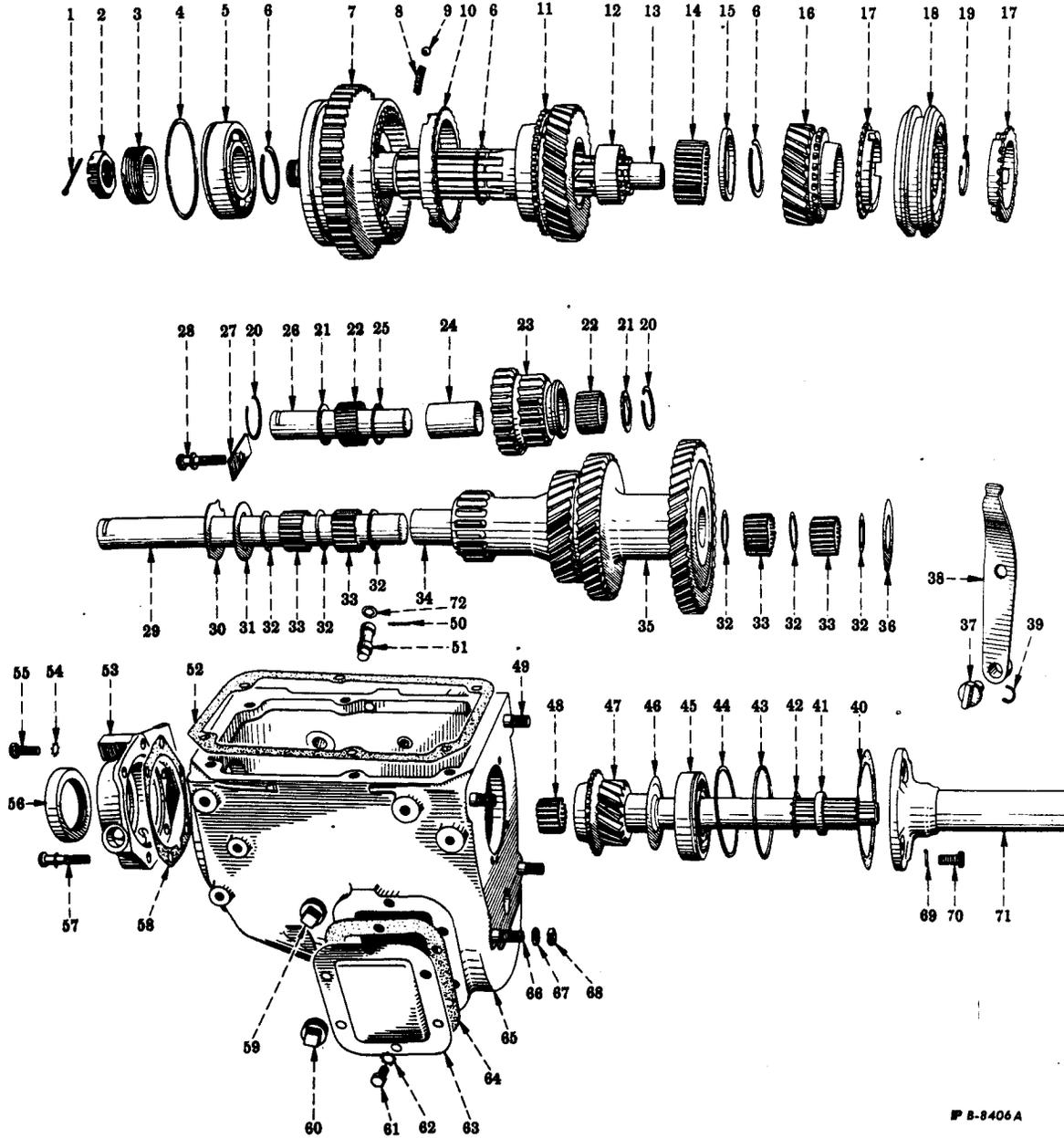


MEMORANDA



ATTACHMENTS

TRANSMISSION LESS CONTROL HOUSING
 (Motor Truck T-15 Four Speed Synchronesh)
 (UB-220, UB-240 and UB-264)



FP 5-8406 A

REF. NO.	I.H. PART NUMBER	DESCRIPTION
305 888 R91		ATTACHMENT (Motor Truck T-15, four speed synchronesh) (transmission) (See NOTES 1 and 3) (For use with 11" spring loaded clutch and motor truck flywheel and flywheel housing) (UB-220, UB-240 and UB-264) (Consists of TRANSMISSION GEAR BOX ASSEMBLY, 153 878 R92, CONTROL LEVER HOUSING ASSEMBLY, 71 876 R91, Speedometer Opening Plug Gasket, 14 188 H Speedometer Opening Plug, 14 189 H)

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(REV. NO. 2 1-57)



ATTACHMENTS

TRANSMISSION LESS CONTROL HOUSING - CONTINUED
 (Motor Truck T-15 Four Speed Synchronesh)
 (UB-220, UB-240 and UB-264)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
305 889 R91		ATTACHMENT (Motor Truck T-15, four speed synchronesh) transmission (See NOTES 1 and 3) (For use with 12" spring loaded clutch and motor truck flywheel and flywheel housing) (UB240 and UB-264) (Consists of TRANSMISSION GEAR BOX ASSEMBLY, 153 879 R92, CONTROL LEVER HOUSING ASSEMBLY, 71 876 R91, Speedometer Opening Plug Gasket, 14 188 H) and Speedometer Opening Plug 14 189 H)

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ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
TRANSMISSION LESS CONTROL HOUSING - CONTINUED (Motor Truck T-15 Four Speed Synchromesh) (UB-220, UB-240 and UB-264)		
Letters of these units correspond with those shown following the description of the parts in the list below and identifies the unit for which the part is used. Items without letters after the description indicates the part is used for all units.		
A	153 878 R92	TRANSMISSION ASSEMBLY less CONTROL HOUSING (Part of Attachment, 305 888 R91) (UB-220, UB-240 and UB-264)
B	153 879 R92	TRANSMISSION ASSEMBLY less CONTROL HOUSING (Part of Attachment, 305 889 R91) (UB-240, UB-264)
1		PIN
2		NUT
3	82 229 R1	GEAR, speedometer drive
4	77 945 R1	RING, mainshaft snap
5	ST 532	BEARING, mainshaft, rear
6	71 843 R1	RING, mainshaft, second speed gear snap (3)
7	82 092 R91	SYNCHRONIZER, low and second speed
8	73 298 R1	SPRING, low and second speed synchronizer
9	16 012 R1	BALL, 3/8" low and second speed synchronizer
10	71 847 R1	RING, second speed synchronizer blocking
11	154 075 R1	GEAR, mainshaft second speed
12	82 079 R1	SPACER, mainshaft second speed gear bearing
13	71 834 R2	SHAFT, main
14	71 846 R1	ROLLER, mainshaft second speed bearing (34)
15	71 842 R1	WASHER, mainshaft second speed gear thrust
16	154 076 R11	GEAR w/BUSHING, mainshaft third speed
17	71 840 R1	RING, third and high speed synchronizer blocking (2)
18	71 835 R91	SYNCHRONIZER, mainshaft third and high speed clutch
19	71 841 R1	RING, third and high speed synchronizer hub snap
20	91 092 R1	RING, reverse idler gear snap (2)
21	91 091 R1	WASHER, reverse idler gear thrust (2)
22	91 094 R1	ROLLER, reverse idler gear bearing (74)
23	91 089 R11	GEAR w/BEARINGS and WASHER, reverse idler
24	91 095 R1	SLEEVE, reverse idler gear bearing
25	91 093 R1	SPACER, reverse idler gear bearing
26	59 423 R1	SHAFT, reverse idler gear
27	27 082 H	PLATE, countershaft reverse idler gear shift lock
28		SCREW, 3/8 x 3/4" hex-hd. cap 3/8" lock WASHER
29	71 860 R1	COUNTERSHAFT
30	71 859 R1	WASHER, countershaft rear thrust (outer)
31	154 078 R1	WASHER, countershaft rear thrust (inner)
32	59 572 R1	WASHER, countershaft bearing spacing (6)
33	59 574 R1	ROLLER, countershaft gear bearing (88)
34	95 363 R1	SPACER, countershaft gear bearing
35	154 077 R1	GEAR, countershaft
36	71 857 R1	WASHER, countershaft thrust
37	91 090 R1	SHOE, reverse shifting
38	147 922 R1	ARM, reverse shifting
39	82 084 R1	WASHER, "C" shifting shoe



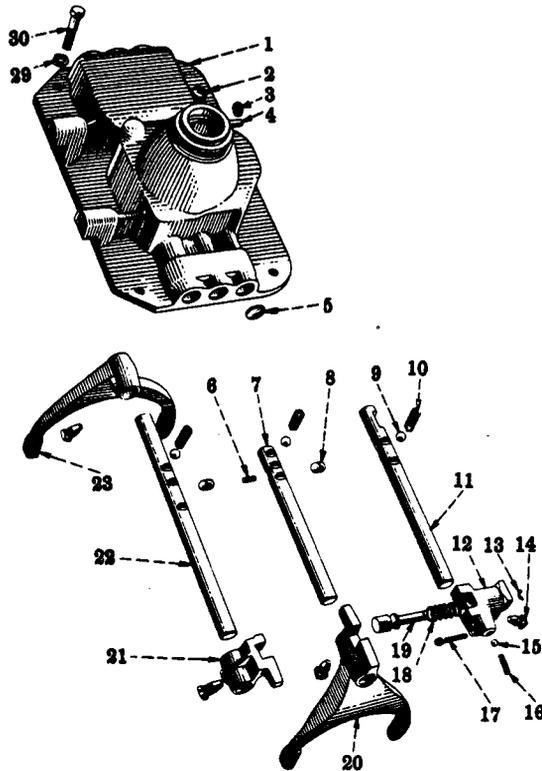
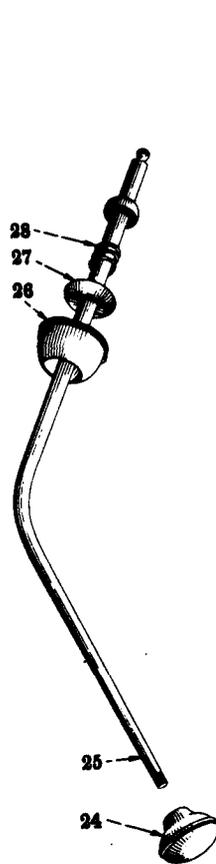
ATTACHMENTS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
TRANSMISSION LESS CONTROL HOUSING - CONTINUED (Motor Truck T-15 Four Speed Synchromesh) (UB-220, UB-240 and UB-264)		
40	77 946 R1 77 947 R1 77 948 R1 77 949 R1	GASKET, main drive gear bearing retainer .009" thick .0135" thick .018" thick .0225" thick
41	109 119 R 91	OIL SEAL, main drive gear bearing retainer
42	137 244 R1 137 245 R1 137 246 R1 137 247 R1	RING, drive gear bearing snap (small) .117" thick .120" thick .123" thick .127" thick
43	77 945 R1	RING, main drive gear bearing snap (large)
44	82 076 R1	RING, main drive gear bearing spacing
45	ST 532	BEARING, main drive gear ball
46	80 175 R1	SLINGER, main drive gear oil
47	154 079 R1 154 074 R1	GEAR, main drive (Unit A) GEAR, main drive (Unit B)
48	59 579 R1	ROLLER, mainshaft bearing (16)
49	94 807 R1	STUD, transmission mounting (2)
50	103 565	PIN, reverse shifting arm screw
51	147 921 R1	PIN, reverse shifting arm pivot
52	71 855 R1	GASKET, control lever housing
53	80 224 R11	RETAINER w/BUSHING
54		WASHER, 3/8" external lock (5)
55		SCREW, 3/8 x 1" hex-hd. cap (4)
56	59 586 R91	OIL SEAL, mainshaft
57		SCREW, 3/8 x 2" hex-hd. cap
58	80 225 R1 80 226 R1 80 227 R1 80 228 R1	GASKET, mainshaft rear bearing retainer (.010" thick) (.015" thick) (.020" thick) (.025" thick)
59	16 845 R1	PLUG, 3/4" sq-hd. pipe
60	444 795	PLUG, 3/4" ctsk-hd.
61		SCREW, 3/8 x 5/8" hex-hd. cap (6)
62		WASHER, 3/8" external lock (6)
63	23 045 H	COVER, power take-off opening
64	111 082 R1	GASKET, power take-off opening cover
65	147 919 R11	CASE, transmission
66	94 807 R1	STUD, transmission mounting (2)
67		WASHER, 1/2" lock (4)
68		NUT, 1/2NF (4)
69		WASHER, 5/16" external lock (4)
70		SCREW, 5/16 x 7/8" hex-hd. cap (4)
71	71 861 R21 74 012 R21	RETAINER w/SEAL (Unit A) RETAINER w/SEAL (Unit B)
72	147 920 R1	SEAL, pivot pin



ATTACHMENTS

TRANSMISSION CONTROL HOUSING WITH LEVER
ASSEMBLY
(UB-220, UB-240 and UB-264)



IP A-37002

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	71 876 R91	HOUSING ASSEMBLY, transmission control lever (part of Attachments, 305 888 R91 and 305 889 R91)
1	71 877 R1	HOUSING, control lever
2	82 075 R91	BREATHER
3	59 761 R1	PLUG, shift bar poppet interlock plunger hole
4	82 081 R1	PIN, control lever locating
5	172 531	PLUG, 3/4" expansion (6)
6	59 412 R1	PIN, shift bar interlock plunger
7	71 879 R1	BAR, third and direct speed shift
8	27 096 H	PLUNGER, shift bar interlock (2)
9	16 012 R1	BALL, 3/8" shift bar poppet (3)
10	59 411 R1	SPRING, shift bar poppet (3)
11	71 884 R1	BAR, reverse speed shift
12	82 090 R1	BLOCK, reverse speed shift
13	82 083 R1	WASHER, "C" reverse speed plunger
14	23 079 H	SCREW, shift fork set (4)
	16 008 R1	BALL, 1/4" reverse speed shift block plunger poppet



ATTACHMENTS

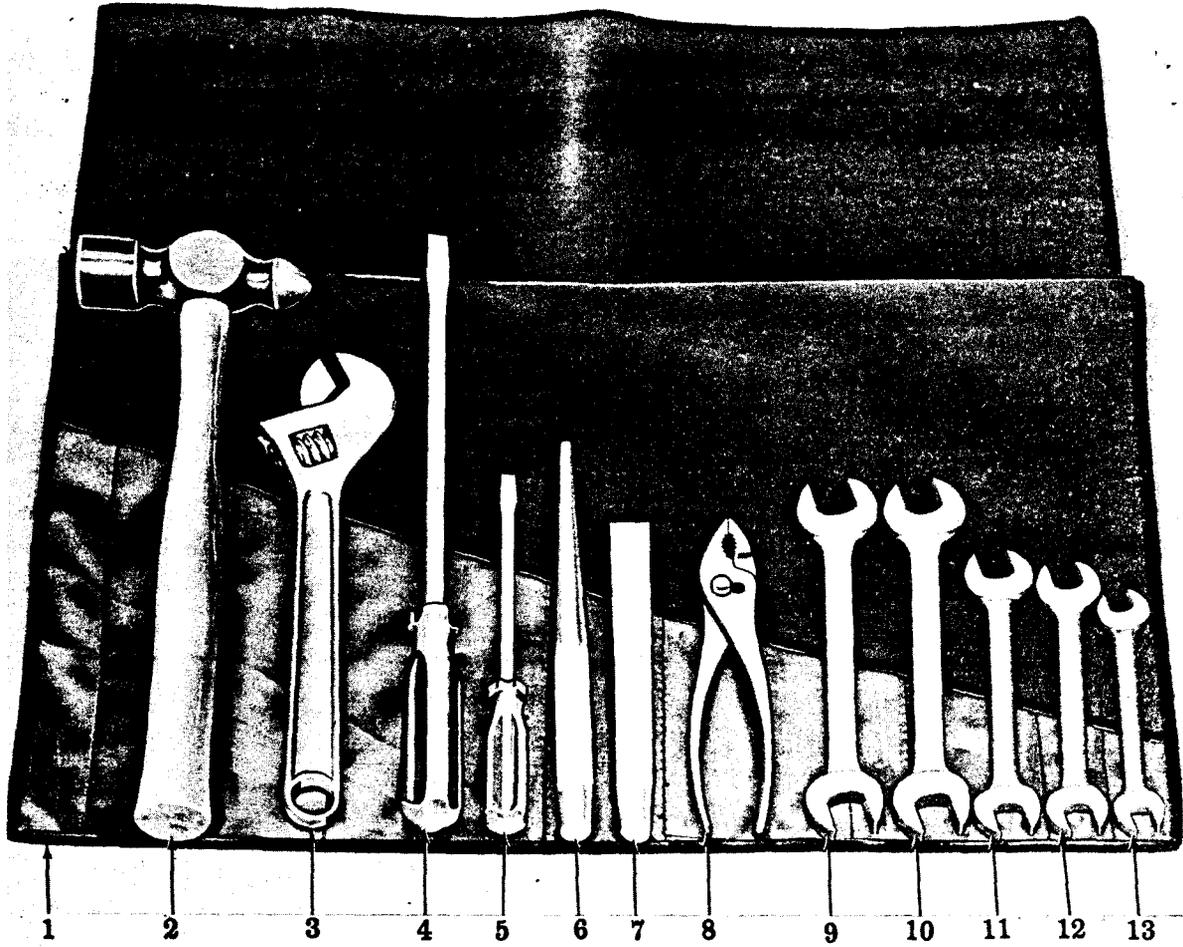
TRANSMISSION CONTROL HOUSING WITH LEVER
ASSEMBLY - CONTINUED
(UB-220, UB-240 and UB-264)

REF. NO.	I.H. PART NUMBER	DESCRIPTION
16	82 077 R1	SPRING, reverse speed shift block plunger poppet
17		PIN, 1/8 x 1" cotter
18	62 892 HC	SPRING, reverse speed shift block plunger
19	82 086 R1	PLUNGER, reverse speed shift block
20	71 881 R1	FORK, third and direct speed shift
21	71 883 R1	BLOCK, low and second speed shift
22	71 880 R1	BAR, low and second speed shift
23	71 882 R1	FORK, low and second speed shift
24	218 306 R1	BALL, control lever
25	69 935 R11	LEVER, control
26	82 078 R1	COVER, control lever dust
27	82 192 R1	WASHER, control lever spring
28	27 098 HA	SPRING, control lever
29		WASHER, 3/8" lock (6)
	14 188 H	SCREW, 3/8 x 7/8" hex-hd. cap (6)
	14 189 H	GASKET, speedometer opening plug (not part of control lever housing assembly)
		PLUG, speedometer opening (not part of control lever housing assembly)



ATTACHMENTS

TOOLS
(Owatonna)



IPA-43351

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	276 822 R91	TOOL SET (special) (consists of the following tools) (see NOTE)
1		ROLL, tool (special-leatherette) (ED-1133)
2		HAMMER (2 lb. - ball penn) (BP-32)
3		WRENCH (adjustable - 12" long) (DA-12)
4		SCREWDRIVER (3/8" shank) (SS-123)
5		SCREWDRIVER (1/4" shank) (SS-83)
6		PUNCH (10" long) (TP-24)
7		CHISEL (8" long) (CC-24)

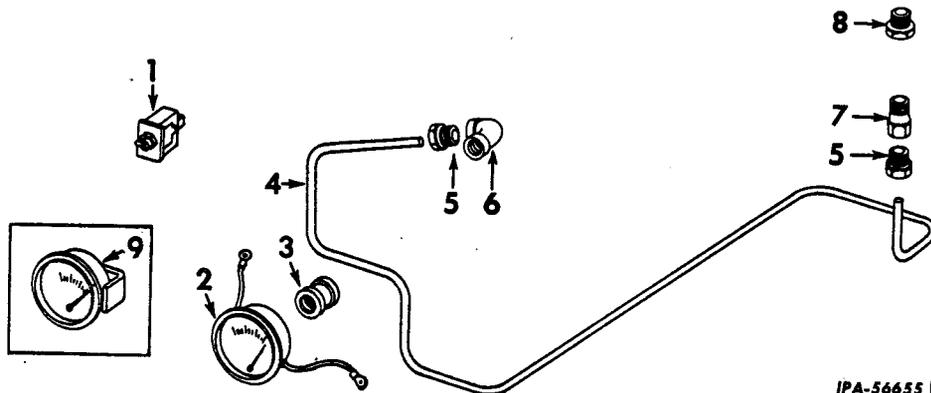
REF. NO.	I.H. PART NUMBER	DESCRIPTION
8		PLIERS (slip joint - 8" long) (7 2-A)
9		WRENCH, end (3/4 x 13/16") (E-2426)
10		WRENCH, end (13/16 x 7/8") (E-2628)
11		WRENCH, end (5/8 x 11/16") (E-2022)
12		WRENCH, end (9/16 x 5/8") (E-1820)
13		WRENCH, end (7/16 x 1/2") (E-1416)

NOTE - Order Individual Tools And Complete Tool Sets From Service Tools, Inc., 1923 So. Indiana Ave., Chicago 16, Illinois.



ATTACHMENTS

VACUUM GAUGE AND VACUUM SAFETY SHUT-OFF



REF. NO.	I. H. PART NUMBER	DESCRIPTION
		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	306 760 R91	ATTACHMENT, Vacuum Gauge (for use with Instruments and Panel Attachments (Regular Gauges) 305 678 R91 and 306 423 R91) (*)
B	306 761 R91	ATTACHMENT, Vacuum Safety Shut-Off (for use with Instruments and Panel Attachment (Safety Gauges) 305 635 R91) (*)
1	253 818 R91	SWITCH, vacuum gauge toggle (Attachment B)
2	253 799 R91	GAUGE, vacuum (Attachment B)



ATTACHMENTS

VACUUM GAUGE AND VACUUM SAFETY SHUT-OFF - CONTINUED

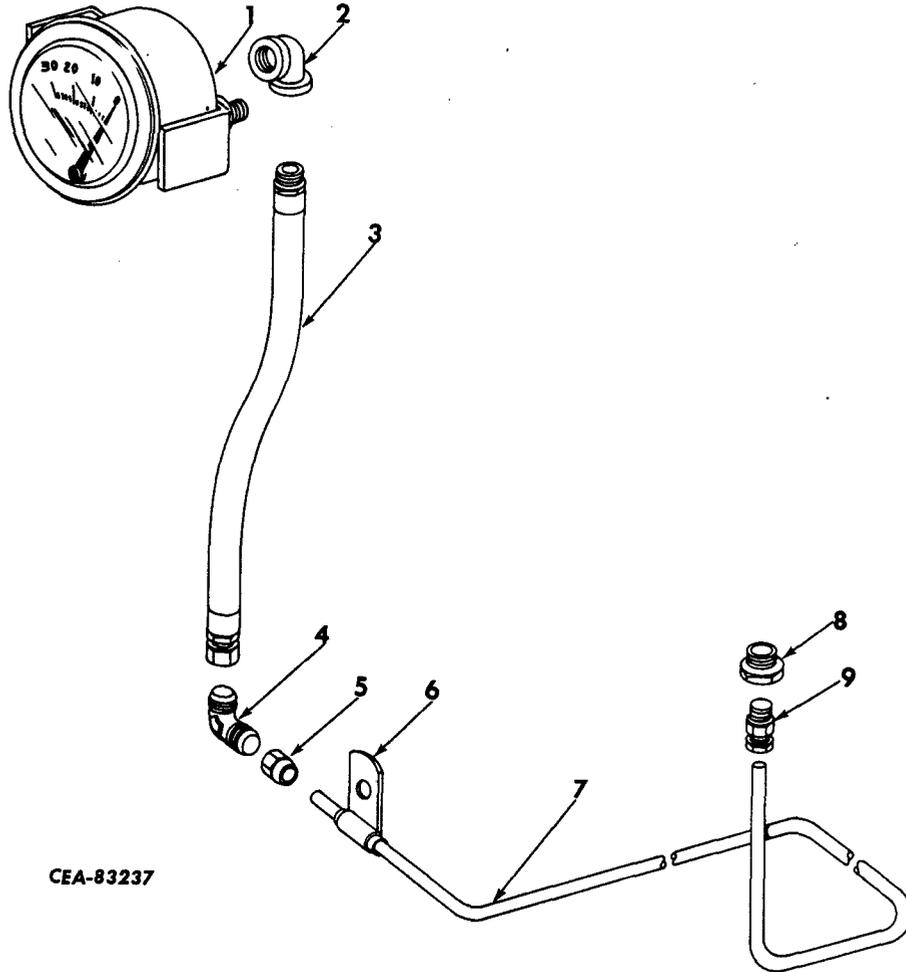
REF. NO.	I. H. PART NUMBER	DESCRIPTION
3	105 408	COUPLING, vacuum gauge
4	306 762 R1	TUBE, vacuum gauge to manifold
5	19 984 R1	NUT, 1/4" nylon insert tube (2)
6	67 869 D	ELBOW, 1/8" female pipe
7	29 901 D	BODY, 1/4" male tube connector
8	119 930	BUSHING, 1/4 x 1/8" reducing (at intake manifold)
9	303 492 R91	GAUGE, vacuum (Attachment A)
	274 747 R91	CABLE, toggle switch to relay (Illustrated with "Electric Starting") (Attachment B)
	265 126 R91	CLIP (Mounted on vent tube clip extension)

* - Attachment No Longer Available. Service Parts will be Furnished.



ATTACHMENTS

VACUUM GAUGE



CEA-83237

REF. NO.	I. H. PART NUMBER	DESCRIPTION
		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	349 125 R91	ATTACHMENT, vacuum gauge (regular gauges) (for use on units equipped with Instrument and Panel Attachment, 349 132 R91) (see NOTES 1 and 3)
B	349 214 R91	ATTACHMENT, vacuum gauge (safety gauges) (for use on units equipped with Instrument and Panel Attachment, 349 133 R91) (see NOTES 1 and 3)
1	303 492 R91	GAUGE, vacuum (Attachment A)
1	347 605 R91	GAUGE, vacuum (Attachment B)
2	105 412	ELBOW, 1/8" pipe (Attachment A)
3	347 581 R91	HOSE, vacuum gauge
4	118 810	UNION, 1/4" flared tube elbow (Attachment A)
4	118 748	CONNECTOR, 1/4" flared tube (Together w/ELBOW, 67 869 D 2nd NUT, 369 987 R1, will work for UNION, 118 810) (Attachment B)

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ATTACHMENTS

VACUUM GAUGE - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
5	19 984 R1	NUT, 1/4" tube
6	64 133 D	CLIP, vacuum gauge tube
	60 127 D	FELT, tube clip
		3/8 x 3/8" hex-ha cap SCREW
		3/8" lock WASHER
7	995 061 R1	TUBE, vacuum gauge to manifold (40" long, copper 1/4" OD (#))
8	119 930	BUSHING, 1/4 x 1/8" reducer (at manifold)
9	29 901 D	CONNECTOR, tube
	67 869 D	ELBOW, female pipe (Together with NUT, 19 984 R1, will work for ELBOW, 9409 923, 444 193 or 444 502) (Attachment B)
	369 987 R1	NUT, nylon (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 Tubing. Furnished Only In Foot Rolls.

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MISCELLANEOUS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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PRODUCT GRAPHICS

The following identification and instructional Product Graphics are available.

2 752 477 R1	PRODUCT GRAPHIC, air cleaner (instructions) (Donaldson - Wet type) (yellow)
2 752 478 R1	PRODUCT GRAPHIC, air cleaner (instructions) (Donaldson - Wet type) (red)
2 751 188 R1	PRODUCT GRAPHIC, air cleaner (instructions) (United Specialties) (dry type)
2 750 468 R1	PRODUCT GRAPHIC, air cleaner (instructions) (Fram - Wet type)
2 752 048 R1	PRODUCT GRAPHIC, engine shut-down (instructions) (yellow)
2 752 049 R1	PRODUCT GRAPHIC, engine shut-down (instructions) (red)
1 001 071 R2	PRODUCT GRAPHIC, generator warning
2 752 300 R1	PRODUCT GRAPHIC, "International" (2 for units painted yellow)
2 752 313 R1	PRODUCT GRAPHIC, "International" (2 for units painted red)
1 001 170 R1	PRODUCT GRAPHIC, blower fan
2 753 190 R1	PRODUCT GRAPHIC, "Made in U.S.A."
2 751 535 R1	PRODUCT GRAPHIC, "UB-220" (2 for units painted yellow)
2 751 536 R1	PRODUCT GRAPHIC, "UB-220" (2 for units painted red)
2 751 473 R1	PRODUCT GRAPHIC, "UB-240" (2 for units painted yellow)
2 751 474 R1	PRODUCT GRAPHIC, "UB-240" (2 for units painted red)
2 751 477 R1	PRODUCT GRAPHIC, "UB-264" (2 for units painted yellow)
2 751 478 R1	PRODUCT GRAPHIC, "UB-264" (2 for units painted red)
2 750 471 R1	PRODUCT GRAPHIC, lubricating oil filter (instructions)
1 001 735 R1	PRODUCT GRAPHIC, valve adjusting
2 750 059 R1	PRODUCT GRAPHIC, transmission shift pattern (T-10)
2 750 061 R1	PRODUCT GRAPHIC, transmission shift pattern (T-15)
2 751 533 R1	PRODUCT GRAPHIC, flo-matic (yellow)
2 751 534 R1	PRODUCT GRAPHIC, flo-matic (red)
2 752 445 R1	PRODUCT GRAPHIC, control switch escutcheon



MISCELLANEOUS

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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GASKET SETS

GASKET SETS

70 121 R93	GASKET SET, crankcase (#)
	(Composed of -
1	GASKET 35 654 HA
1	GASKET 39 783 H
1	GASKET 69 614 R1
1	GASKET 69 676 R1
1	GASKET 69 762 R2
1	GASKET 69 764 R1
1	GASKET 70 113 R1
1	GASKET 70 114 R1
1	GASKET 128 868 H
1	GASKET 220 390 R1
2	OIL SEAL 70 181 R1
1	OIL SEAL 71 762 R1
1	PACKING 1 738 Y)

173 141 R93	GASKET SET, cylinder head (#)
	(Composed of -
1	GASKET 69 735 R1
1	GASKET 69 742 R1
1	GASKET 69 752 R1
1	GASKET 164 418 R2
1	GASKET 164 421 R1
1	GROMMET 164 420 R1
6	DEFLECTOR 866 834 R1)

318 058 R91	GASKET SET, crankcase (‡)
	(Composed of -
1	GASKET 35 654 HA
1	GASKET 39 783 H
1	GASKET 69 676 R1
1	GASKET 69 762 R2
1	GASKET 69 764 R1
1	GASKET 71 762 R1
1	GASKET 612 293 C1
1	GASKET 369 984 R1
2	PACKING 863 756 R1
1	SEAL 374 006 R91)

318 059 R91	GASKET SET, cylinder head (‡)
	(Composed of -
1	GASKET 69 742 R1
1	GASKET 164 418 R2
1	GASKET 369 982 R1
1	GASKET 369 983 R1
3	GROMMET 164 420 R1
6	SEAL 866 834 R1)

FIELD SERVICE PACKAGES

307 771 R91	PACKAGE, carburetor field service (X)
114 881 R91	PACKAGE, fuel pump field service (X)
277 369 R91	PACKAGE, fuel regulator field service (X)
78 984 R91	PACKAGE, water pump field service (X)

- Used With Crankcase 172 670 R93 Or 173 199 R93) BD-220 And BD-264 Engine, Below Serial No. 723636, BD-240 Engine, Below Serial No. 723074.

‡ - Used with Crankcase, 316 275 R1 Or 316 277 R1) BD-220 and BD-264 Engine, Serial No. 723636 And Up, BD-240 Engine, Serial No. 723074 And Up.

(X) - Component Parts Are Found In The Engine Section, Respective Group Or Attachment Section Of This Catalog.

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