

DESCRIPTION	PAGE	FICHE	DESCRIPTION	PAGE	FICHE
<u>A</u>			Flywheel.....	7-2	B19
Alternator (*) (+).....	9-4, 16	C9,C21	Flywheel Housing.....	10-2	D6
			Fuel Injection Pump.....	11-2, 4, 6, 8	C9,11 D13,11
<u>B</u>			Pump Housing and Cover (I.H. R.D. Pump).....	11 21	E4
Bearings			Main Shaft and Primary Pump (I.H. R.D. Pump).....	11-23	E6
Camshaft.....	6-2	B10	Governor (I.H. R.D. Pump).....	11-25	E8
Connecting Rod.....	4-2, 4	A18,A20	Fuel Piping.....	11-2, 4, 6, 8	D9,11 D13,11
Crankshaft.....	3-2	E16			
Belt, fan (D-282 for H-50B w/High Mounted Fan).....	5-3	B3	<u>G</u>		
Belt, fan, water pump and alternator/generator (*) (+).....	9-2, 4	C7,C9	Gauge, oil level.....	6-2	B10
Blade, fan (Not furnished w/ Replacement Service Engine) (%)			Gear		
Breather.....	6-2	B10	Camshaft.....	3-2	A15
By-Pass			Idler.....	6-5	B13
Fuel Return.....	11-18	E1	Injection Pump Drive.....	11-2, 4, 6, 8	D9,11
Water Pump.....	5-7	B7	Generator (*) (+).....	9-2, 12, 17,	C7,C1
			Glow Plug.....	11-15, 16, 17	D22,C
<u>C</u>					
Camshaft.....	3-2	A15	<u>H</u>		
Cooler, engine oil.....	13-7	E19	Harness, glow plug cable....	9-2, 4	C7,C9
Connecting Rod.....	4-2, 4	A18,A20	Head, cylinder.....	8-2	C2
Cover			Housing		
Crankcase Front.....	6-5	B10	Flywheel.....	10-2	D6
Valve.....	8-2	C2	Thermostat.....	5-7	B7
Crankcase.....	6-2	B10			
Cranking Motor (*) (+).....	9-2, 4, 6, 9	C7,9,11,14	<u>I</u>		
Crankshaft.....	7-2	B19	Idler Gear.....	6-5	B13
Cylinder Head.....	8-2	C2	Injection Nozzle.....	11-15, 16, 17,	D22,C
			Injection Pump.....	11-2, 4, 6, 8	D6,11
<u>D</u>			Intake Manifold.....	14-2	E22
Damper, vibration.....	7-2, 3, 4, 5	B19,20 B21,22			
			<u>M</u>		
<u>E</u>			Manifold		
Element, breather.....	6-2	B10	Engine Oil Cooler.....	13-7	E19
Engine			Exhaust.....	14-2	E22
Replacement.....	1-2	A9	Intake.....	14-2	E22
Skeleton.....	1-2	A9	Motor, cranking (*) (+).....	9-2, 4, 6, 9	C7,9,11
Engine Support.....	10-3	D6	Mounting		
Exhaust Manifold.....	14-2	E22	Alternator.....	9-4	C9
			Generator.....	9-2	C7
<u>F</u>			Generator (Not furnished with Replacement Service Engine) (%)		
Fan (Not furnished with Replacement Service Engine) (%)					
Filter			(*) D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850 refer to chassis catalog.		
Lubricating Oil			(+) Not furnished with Replacem- ent Service Engine for L-282 for 3600A and 3850.		
Cartridge Type.....	13-4, 5, 6	E16,17,18	(%) Refer to Chassis Catalog.		
Spin-On Type.....	11-14	D21			
Primary and Final Fuel.....	11-11, 13	D18,D20			

ALPHABETICAL INDEX

DESCRIPTION	PAGE	FICHE		DESCRIPTION	PAGE	FICHE
<u>N</u>				<u>V</u>		
Nozzle, in	11-15, 16,	17	D22	Valves		
			D23,D24	Exhaust.	8-2	C2
				Intake	8-3	C3
<u>P</u>				<u>W</u>		
Packages and Kits	2-3	A12		Water Pump.	5-2, 5	B2,E.
Pan, oil	6-8	715				
Pipe, breather	6-2	B10				
Piping, fuel injection	11-2, 4	D9,D11				
	11-6, 8	D13,D15				
Pistons.	4-2, 4	A18,A20				
Plug, glow	11-15, 16,	17	D22			
Pumps			D1,D24			
Electric fuel.	11-20	E3				
Fuel injection	11-2, 4	D9,D11				
	11-6, 8	D13,D15				
Hand primer	11-19	E2				
Lubricating oil.	13-2, 3	E14,E15				
Water.	5-2, 5	B2,B6				
Push Rods.	4-2, 4	A18,A20				
<u>Q</u>						
Quick Reference for Filter Elements and Belts	2-2	A6				
<u>R</u>						
Regulator, voltage (*) (+)	9-18, 20, 21	C23,D1,D2				
Rings, piston	4-2, 4	A18				
Rods						
Connecting	4-2, 4	A18,A20				
Valve Push.	3-2	A15				
<u>S</u>						
Sleeve, cylinder	4-2, 4	A18,A20				
Starter Motor (*) (+)	9-2, 4, 6, 9	C7,C9, C11,14				
Support						
Engine.	10-3	D6				
Oil Pump.	6-7	R15				
<u>T</u>						
Tappets, valve	3-2	A15				
Thermostat	5-7	B7				
Trap, water	11-18	E1				

(*) D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 385C refer to chassis catalog.
 (+) Not furnished with Replacement Service Engine for D-282 for 3600A and 3850.

INTRODUCTION

This catalog contains a list of service parts for the D-236 and D-282 engines used in the following applications (See NOTE)

<u>ENGINE</u>	<u>APPLICATION</u>
D-236	3616, H-30A, H-30B, H-30B-F and H-30B-R
D-282	2656, 2706, 3600A, 3800, 3850, H-50A, H-50B and H-50C

NOTE: For D and DT-282 engines used in TD-6 (C2 Series) TD-9 (92 Series), TD-9 (Series B) and L-150 applications, refer to chassis parts catalog.

The D-236 is a six-cylinder 3.688 x 3.688 inch naturally aspirated diesel engine. The D-282 is a six-cylinder 3.688 x 4.390 inch naturally aspirated diesel engine.

This catalog is divided into major sections which, in turn, are sub-divided into units. A listing of the major sections is shown on the flyleaf prefacing this publication. The tabs on the right-hand side of the first page of each of these indexes correspond to the tabs shown on the flyleaf. A numerical index at the back of the catalog contains a listing of part numbers showing the section and page number where each part is listed and described.

Illustrations, in the form of exploded views, are provided to aid in locating and identifying parts. Parts illustrated are of typical parts and not necessarily detailed drawings. Reference numbers in the illustration tie in each simple part, assembly or group of parts with a list of parts following each illustration. Parts are listed in reference number order as shown in the illustration, followed by the noun name of the part with the modifying descriptive information which serves to specifically identify the item. Parts not shown in the illustrations appear at the end of the unit list affected. Parts listed are for all applications. When parts are not common to all applications, the reference number will be followed by the phrase "(See individual engine variation)." Locate your specific application under heading "ENGINE VARIATIONS" located at end of unit parts list.

ASSEMBLIES. Whenever possible, the component parts of assemblies are shown in the "exploded views" by use of boxes, brackets or arrows. When assemblies cannot be shown as mentioned they will be listed by one of the following methods:

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

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

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

The quantity of each item is shown following the description of the item. Where no quantity is shown, this indicates that only "1" is required.

Individual parts of an assembly not available for service are shown with the symbol \$. In these cases, the complete assembly must be ordered for service.

In many parts lists, it is possible to include more than one assembly. The assemblies are listed at the beginning of the parts lists with the letters "A", "B", "C", etc., preceding the part number of the assembly. 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 (1) is required. Parts without letters after the description indicate the part is used for all assemblies listed in the heading.

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

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 sizes will only be shown when more than one size is used to mount a part. Only one dimension will be shown to differentiate hardware.

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

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

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

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

INTRODUCTION

MISCELLANEOUS PARTS - Continued

Diameter of Bolts	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	18
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

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."

WHEN ORDERING PARTS, ALWAYS USE INTERNATIONAL HARVESTER PART NUMBERS AND DESCRIPTIONS SHOWN IN THE PARTS LIST.

SERIAL NUMBERS

<u>MODEL</u>	<u>ENGINE STARTING SERIAL NUMBER</u>
H-30A) H-30B) H-30B-F) H-30B-R)	D236H-1221
3616	D236 (*)
H-50A) H-50B) H-50C)	D282H-1137
2656) 2706) 3600A) 3800) 3850)	D-282 (*)

(*) - Starting number not available.

The engine serial number is stamped on a pad located on the left-hand side of the crankcase above the lubricating oil cooler.

Customers are to be urged to supply the complete engine serial number when ordering parts. No attempt is made at the factory to have the engine and chassis serial numbers correspond.

DESIGNATION OF PARTS

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

REFER TO SECTION TWO FOR "QUICK REFERENCE LIST FOR FILTERS, FILTER ELEMENTS AND BELTS."

QUICK REFERENCE
FILTER ELEMENTS AND BELTS
FOR
D-238 ENGINE
AND
D-282 ENGINE

FILTER ELEMENTS

PART NO.

FUEL SYSTEM	
Final Filter Element with Gasket	304 101 R91
Primary Filter Element with Gasket	306 353 R91
LUBRICATION SYSTEM	
Lubricating Oil Filter with Gasket (Cartridge Type)	323 827 R91
Lubricating Oil Filter (Spin-On Type)	675 616 C91

BELTS

PART NO.

Fan, Water Pump and Generator Belt (D-238 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898 (D-282 for H-50A and H-50B w/o High Mounted Fan) - 1137 to 15347	304 436 R1
Fan Belt (Matched Set) (D-282 for H-50B w/High Mounted Fan) - 1137 to 15347	358 326 C91
Water Pump and Generator Belt (D-282 for H-50B w/High Mounted Fan) - 1137 to 15347	601 379 C1
Fan, Water Pump and Generator Belt (D-282 for H-50C) - 1137 to 15347	612 089 C1
Fan, Water Pump and Alternator Belt (D-238 for H-30B) - 9899 and up (D-282 for H-50C) - 15348 and up	670 261 C1
Fan, Water Pump and Alternator Belt (D-238 for 2518) (D-282 for 2556, 2706, 3600A, 3800 and 3850)	(%)

(%) - Refer to Chassis Catalog.

REF. NO.	PART NUMBER	DESCRIPTION
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REPLACEMENT SERVICE ENGINE
(Ready to Run) (See NOTE B)

D-236 Engine (*)

601 675 C91 ENGINE, replacement service (D-236)
(For H-30B PAYloader) (See NOTE A)

D-282 Engine (*)

612 073 C91 ENGINE, replacement service (D-282)
(For H-50C PAYloader) (See NOTE A)

678 187 C91 ENGINE, replacement service (D-282)
(For 3800A Tractor) (See NOTE A)

612 068 C94 ENGINE, replacement service (D-282)
(For 3850 Tractor) (See NOTE A)

REF. NO.	PART NUMBER	DESCRIPTION
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SKELETON SERVICE ENGINE

D-236 Engine

684 286 C81 ENGINE, skeleton service (D-236)
(See NOTE B)
(Consists of -
Camshaft and Related Parts
Connecting Rods and Pistons
Crankcase
Crankcase Front Plate, Idler Gear
and Related Parts
Crankshaft and Related Parts
Injection Pump Gear
Oil Pump)

D-282 Engine

345 245 R92 ENGINE, skeleton service (D-282)
(See NOTE A, B and C)
(Consists of -
Camshaft and Related Parts
Connecting Rods and Pistons
Crankcase
Crankcase Front Plate, Idler Gear
and Related Parts
Crankshaft and Related Parts
Oil Pump (Less Screen))

(*) Replacement Service Engines for D-236 for 3616 and D-282 for H-50A, H-50B, 2656, 2706 and 3800 are no longer available. Service parts will be furnished throughout this catalog. Skeleton Engines, for D-236 and for D-282 are available for service.

NOTE A: Includes all current parts listed in the Alphabetical Index for this particular engine variation except as noted. Optional parts, packages and (x) - As Required parts listed in Section 2 thru 17 are not included.

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

NOTE A: When Skeleton Engine, 345 245 R92, is installed in an H-50A, H-50B or H-50C, the following part is to be deducted:
1 GEAR, camshaft 312 500 R1
The following part is to be added:
1 GEAR, camshaft 367 240 R1

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

NOTE C: When ordering a Skeleton Engine that will replace Crankcase, 312 434 R93, also order Oil Pressure Regulating Valve, 612 092 C91 and "O" Ring, 349 065 R2.

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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PACKAGES AND KITS

NOTE: For detail list of parts, refer to page indicated.

			GRID	Page
SECTION 4 - CONNECTING ROD AND PISTON				

320 017 R91	PACKAGE, cylinder sleeve (Standard).....	A18,A21	4-2, 4-5
601 291 C91	PACKAGE, piston (Standard) (D-236).....	A19	4-3
680 338 C91	PACKAGE, piston and ring (D-236).....	A19	4-3
609 348 C91	PACKAGE, piston (Standard) (D-282).....	A21	4-5
680 337 C91	PACKAGE, piston and ring (D-282).....	A21	4-5
674 727 C91	PACKAGE, piston ring service (Koppers).....	A18,A20	4-2, 4-4
or			
680 035 C91	PACKAGE, piston ring service (Sealed Power).....	A18,A20	4-2, 4-4

SECTION 5 - COOLING

701 331 C92	PACKAGE, wate. pump seal.....	B2,B6	5-2, 5-5
374 544 R94	PACKAGE, water pump field service.....	B3,B6	5-3, 5-6

SECTION 6 - CRANKCASE

530 035 R91	PACKAGE, crankcase gasket (D-236 for 3616) (D-282 for 2656, 2706, 3600A, 3800 and 3850).....	B11	6-3
332 652 R91	PACKAGE, crankcase gasket (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) (D-282 for H-50A, H-50B and H-50C).....	B11	6-3

SECTION 7 - CRANKSHAFT

537 135 R91	PACKAGE, flywheel service (D-282 for 2656 w/Hydrostatic Transmission) ...	B22	7-5
532 249 R91	PACKAGE, drive plate assembly (D-282 for 2656 w/Hydrostatic Transmission)	B22	7-5

SECTION 8 - CYLINDER HEAD

310 446 R95	PACKAGE, valve grinding gasket.....	C4	8-4
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SECTION 11 - FUEL SYSTEM

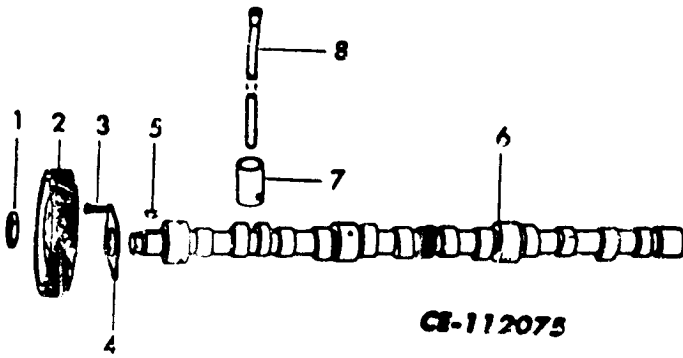
394 968 R91	KIT, Roosa-Master Injection pump conversion service (For converting engines equipped w/International R.D. Fuel Injection Pump to Roosa-Master Fuel Injection Pump) (D-282 for 2706).....	D10	11-3
701 127 C91	PACKAGE, injection pipe clamp field service (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) (D-282 for H-50A, H-50B and H-50C).....	D17	11-10
304 101 R91	PACKAGE, final fuel filter field service.....	D18,D20	11-11, 11-13
306 353 R91	PACKAGE, primary fuel filter element field service.....	D18,D20	11-11, 11-13
332 374 R92	PACKAGE, fuel injection pump overhaul (Used w/International R.D. Pump (D-282 for 2706).....	E6	11-22

SECTION 13 - LUBRICATION

323 827 R91	PACKAGE, lubricating oil filter element service (Cartridge Type) (Used with OIL FILTER, 304 003 R91 and 601 786 C91).....	E16,E17	13-4, 13-5
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REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CAMSHAFT AND REL. T. PARTS



1	16 026 DB	NUT, camshaft gear
2	367 240 R1	GEAR, camshaft (54T)
3	70 425 R1	BOLT, camshaft thrust plate (2)
4	35 650 HA	PLATE, camshaft thrust
5		(See Individual Engine Variation)
6	367 229 R1	CAMSHAFT
7	684 729 C1	TAPPET, valve (12)
8	164 436 R91	ROD, valve push (12)

ENGINE VARIATIONS

(D-238 for H-30A, H-30B, H-30B-E,
H-30B-R and 3510)

5	127 559	KEY, camshaft gear
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(D-282 for H-50A, H-50B, H-50C, 2656, 2706,
3600A, 3800 and 3850)

5	218 211	KEY, camshaft gear
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CONNECTING ROD AND PISTON

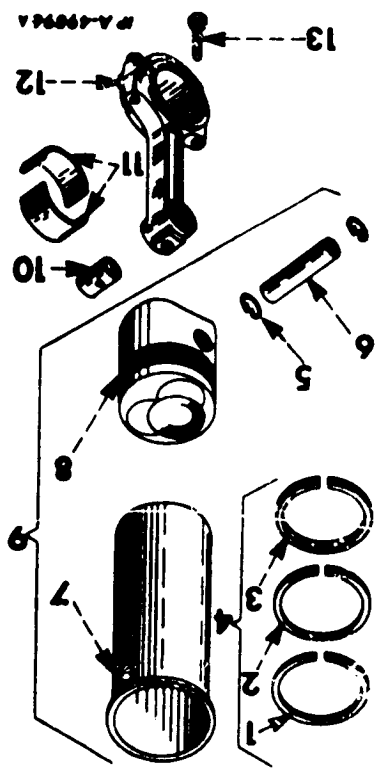
REF. NO. PART NUMBER DESCRIPTION

7	609 028 C11	SLEEVE, cylinder (Standard) (H-30A, H-30B, H-30B-F and H-30B-R) - 16621 and up (6) (3616) - 16621 and up (6)
7	612 000 C11	SLEEVE, cylinder (.002" oversize) (x) (H-30A, H-30B, H-30B-F and H-30B-R) - 7175 and up (3616) - 16621 and up
7	612 001 C11	SLEEVE, cylinder (.010" oversize) (x) (H-30A, H-30B, H-30B-F and H-30B-R) - 7175 and up (3616) - 16621 and up
8		PISTON (Not furnished separately)
9	332 669 R91	SLEEVE and PISTON ASSY., cylinder (H-30A, H-30B, H-30B-F and H-30B-R) - 7175 and up (6) (3616) - 16621 and up
9	612 016 C91	SLEEVE and PISTON ASSY., cylinder (*) (H-30A, H-30B, H-30B-F and H-30B-R) - 7175 and up (6) (3616) - 16621 and up (6)
10	306 708 R1	BUSHING, piston pin (6)
11	367 408 R11	BEARING, connecting rod (Standard) (Two halves) (6)
11	367 632 R11	BEARING, connecting rod (.002" undersize) (Two halves) (6)
11	367 631 R11	BEARING, connecting rod (.030" undersize) (Two halves) (6)
11	376 666 R11	BEARING, connecting rod (.010" undersize) (Two halves) (6)
11	376 668 R11	BEARING, connecting rod (.020" undersize) (Two halves) (6)
12	306 280 R12	ROD w/two BOLT, 316 366 R1 and BUSHING, 306 708 R1, connecting (6)
13	316 366 R1	BOLT, connecting rod (12)
320 017 R91	PACKAGE, cylinder sleeve (Standard) (Consists of SLEEVE, 278 272 R1, SHIM, 320 000 R1 and two SHIM, 320 018 R1) (H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 7174 (6) (3616) - 16620 and below (6)	
(*)		Also PISTON and RING PACKAGE, 680 338 C91, is available for service.
(x)		As Required.

CONNECTING ROD AND PISTON (D-238)

REF. NO. PART NUMBER DESCRIPTION

1		RING, piston (Top compression) (Not furnished separately) (6)
2		RING, piston (Compression - intermediate) (Not furnished separately) (6)
3		RING, piston (Oil regulating) (Not furnished separately) (6)
4	674 727 C91	PACKAGE, piston ring service (Koppers) (6)
4	680 035 C91	PACKAGE, piston ring service (Sealed Power) (6)
5	338 935 R1	RING, piston pin retainer (12)
6	332 436 R1	PIN, piston (6)
7	278 272 R1	SLEEVE, cylinder (Standard) (H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 7174 (6) (3616) - 16620 and below
7	323 802 R1	SLEEVE, cylinder (.002" oversize) (x) (H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 7174 (3616) - 16620 and below
7	601 289 C1	SLEEVE, cylinder (.010" oversize) (x) (H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 7174 (3616) - 16620 and below



CONNECTING ROD AND PISTON

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CONNECTING ROD AND PISTON - Continued (D-236)

601 291 C91	PACKAGE, piston (Standard) and cylinder sleeve (.002" oversize)	Field Service	(H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 7174 (6)	(3616) - 16620 and below (6)	(Consists of -
	1 PAMPHLET,				1 PAMPHLET,
	Instruction				Instruction
	1 014 864 R3				1 014 814 R2
	1 PIN				332 438 R1
	1 PISTON				
	3 RING				
	2 RING				
	1 SHIM				
	320 000 R1				
	1 SHIM				
	320 018 R1				
	2 SHIM				
	1 SLEEVE				
	323 802 R1)				
690 338 C91	PACKAGE, piston and ring	(Consists of -			
	1 PISTON				
	2 RING				
	3 RING				
	338 835 R1				
320 000 R1	SHIM, cylinder sleeve (.005")	(H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 7174 (6)	(3616) - 16620 and below (6)		
320 018 R1	SHIM, cylinder sleeve (.003")	(H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 7174 (12)	(3616) - 16620 and below (12)		

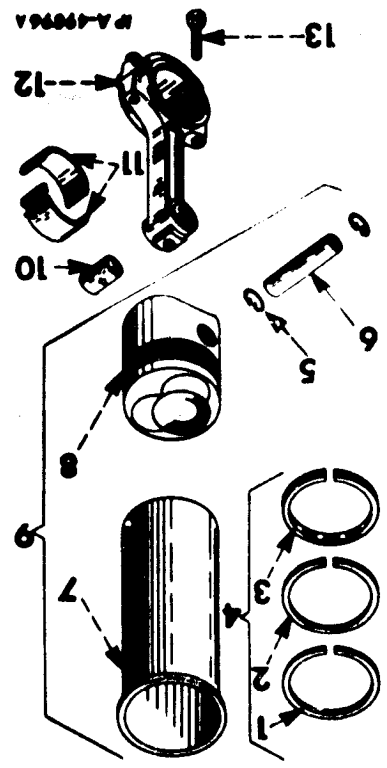
§ - Not F. listed Separately.

CONNECTING ROD AND PISTON

REF. NO.	PART NUMBER	DESCRIPTION
7	601 289 C1	SLEEVE, cylinder (.010" oversize) (x) (H-50A, H-50B and H-50C) - 1137 to 10251 (2756, 2706, 3600A, 3800 and 3850) - 71777 and below
7	609 028 C11	SLEEVE, cylinder (Standard) (H-50A, H-50B, and H-50C) - 10252 and up (6) (2756, 2706, 3600A, 3800 and 3850) - 71778 and up (6)
7	612 000 C11	SLEEVE, cylinder (.002" oversize) (x) (H-50A, H-50B and H-50C) - 10252 and up (6) (2756, 2706, 3600A, 3800 and 3850) - 71778 and up (6)
7	612 001 C11	SLEEVE, cylinder (.010" oversize) (x) (H-50A, H-50B, and H-50C) - 10252 and up (6) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (6)
8	609 344 C91	PISTON (Not furnished separately) (6)
9	612 008 C92	SLEEVE and PISTON ASSY., cylinder (*) (H-50A, H-50B and H-50C) - 10252 and up (6) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (6)
9	609 344 C91	SLEEVE and PISTON ASSY., cylinder (H-50A, H-50B and H-50C) - 1137 to 10251 (6) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (6)
10	306 708 R1	BUSHING, piston pin (6)
11	367 408 R11	BEARING, connecting rod (Standard) (Two halves) (6)
11	367 632 R11	BEARING, connecting rod (.002" undersize) (Two halves) (6)
11	367 631 R11	BEARING, connecting rod (.030" undersize) (Two halves) (6)
11	376 666 R11	BEARING, connecting rod (.010" undersize) (Two halves) (6)
11	376 668 R11	BEARING, connecting rod (.020" undersize) (Two halves) (6)
1		RING, piston (Top compression) (Not furnished separately) (6)
2		RING, piston (Compression - Inter- mediate) (Not furnished separately) (6)
3		RING, piston (Oil regulating) (Not furnished separately) (6)
4	674 727 C91	PACKAGE, piston ring service (Koppers) (6)
4	680 035 C91	PACKAGE, piston ring service (Sealed Power) (6)
5	338 835 R1	RING, piston pin retainer (12)
6	332 436 R1	PIN, piston (6)
7	278 272 R1	SLEEVE, cylinder (Standard) (H-50A, H-50B, and H-50C) - 1137 to 10251 (6) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (6)
7	323 802 R1	SLEEVE, cylinder (.002" oversize) (x) (H-50A, H-50B and H-50C) - 1137 to 10251 (2756, 2706, 3600A, 3800 and 3850) - 71777 and below

(*) - Also PISTON and RING PACKAGE
680 337 C91 is available for service.

(x) - As Required.



CONNECTING ROD AND PISTON (D-282)

CONNECTING ROD AND PISTON

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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12 306 280 R12 ROD w/two BOLT, 316 366 R1, and RUSHING, 306 708 R1, connecting (8)

13 316 366 R1 BOLT, connecting rod (Will work for 70 013 R1) (12)

320 017 R91 PACKAGE, cylinder sleeve (Standard) (Consists of SLEEVE, 278 272 R1, SHIM, 320 000 R1 and two SHIM, 320 018 R1) (H-50A, H-50B and H-50C) - 1137 to 10251 (6) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (6)

609 346 C91 PACKAGE, piston (Standard) and cylinder sleeve (.002" oversize OD) (Field Service) (H-50A, H-50B and H-50C) - 1137 to 10251 (6) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (6) (Consists of -

1 PAMPHLET, instruction 1 014 864 R3
 1 PAMPHLET, instruction 1 014 914 R2
 1 PIN 332 436 R1
 1 PISTON
 3 RING
 2 RING
 338 835 R1
 1 SHIM 320 000 R1
 2 SHIM 320 018 R1
 1 SLEEVE 323 802 R1

680 337 C91 PACKAGE, piston and ring (Consists of -
 1 PISTON
 2 RING
 3 RING)
 338 835 R1

320 000 R1 SHIM, cylinder sleeve (.005") (H-50A, H-50B, and H-50C) - 1137 to 10251 (6) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (6)

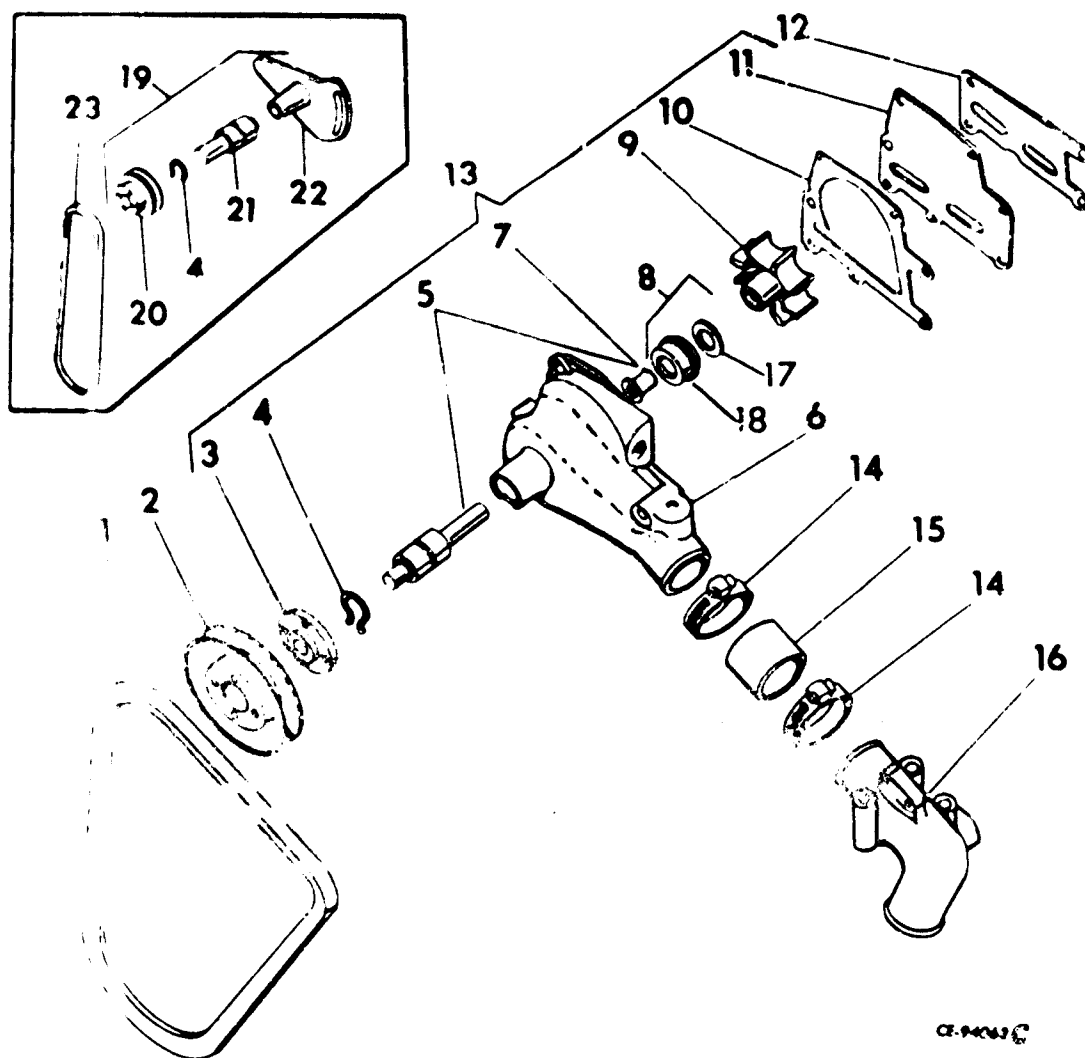
320 018 R1 SHIM, cylinder sleeve (.003") (H-50A, H-50B, and H-50C) - 1137 to 10251 (12) (2756, 2706, 3600A, 3800 and 3850) - 71777 and below (12)

§ - Not Furnished Separately.

(D-282)

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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WATER PUMP AND RELATED PARTS
(D-236 for H-30A, H-30B, H-30B-F, H-30B-R and 3616)
(D-282 for H-50A, H-50B, H-50C and 2706)



1		BELT, fan water pump and generator (Refer to "Alternator/Generator and Related Parts")	9	387 931 R1	IMPELLER, water pump (Together w/PACKAGE, 701 331 C92, will work for IMPELLER, 332 117 R1)
2		(See Individual Engine Variation)	10	69 674 R1	GASKET, water pump plate
3	392 713 R1	HUB, pulley	11	69 675 R1 441 444	PLATE, water pump SCREW, pan-hd slt mach (3)
4	102 069 H	RING, bearing retainer	12	59 676 R1	GASKET, water pump
5	376 602 R91	SHAFT and BEARING w/SLINGER, 71 351 R1	13	601 816 C92 21 318 R1	PUMP ASSEMBLY, water SCREW, 2-1/2" long hex-hd cap (3)
6		BODY, water pump (Not furnished separately)		24 621 R1 25 896 R1	SCREW, 2-1/4" long hex-hd cap WASHER, hardened (4)
7	71 351 R1	SLINGER, water pump	14	279 038 R91	CLAMP, water pump inlet hose (2)
8	701 331 C92	PACKAGE, water pump seal			

COOLING

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
WATER PUMP AND RELATED PARTS - Continued (D-236 for H-30A, H-30B, H-30B-F and H-30B-R and 3616) (D-282 for H-50A, H-50B, H-50C and 2796)			16	670 732 C1	ELBOW, water inlet (D-236 for H-30B) - 9899 and up (D-282 for H-50C) - 15348 and up
15	407 008 R1	HOSE, water pump inlet (2" ID x 1 3/4" long) (*) (x)	277 232 R1	SCREW, hex-hd cap (3)	
			25 896 R1	WASHER, hardened (3)	
16		(See Individual Engine Variation)	<u>(D-236 for 3616)</u> <u>(D-282 for H-50B w/High Mounted Fan)</u>		
17	684 432 C91	SEAT water pump	2	368 502 R1	PULLEY, water pump (D-236 for 3616)
18		SEAL, water pump (Order PACKAGE, 701 331 C92)	181 309	SCREW, hex-hd cap (4)	
			103 319	WASHER, med. lock (4)	
19		(See Individual Engine Variation)	2	304 435 R1	PULLEY, water pump (D-282 for H-50B w/High Mounted Fan)
20		(See Individual Engine Variation)	181 309	SCREW, hex-hd cap (4)	
21		(See Individual Engine Variation)	103 319	WASHER, lock (4)	
22		(See Individual Engine Variation)	16	278 278 R2	ELBOW, water inlet (D-236 for 3616)
23		(See Individual Engine Variation)	179 850	SCREW, hex-hd cap (3)	
	374 544 R94	PACKAGE, water pump field service (Consists of -	103 321	WASHER, med. lock (3)	
		1 GASKET 69 674 R1	16	312 501 R1	ELBOW, water inlet (D-282 for H-50B w/High Mounted Fan) 1137 to 15347
		1 GASKET 69 676 R1		438 159	PLUG, 1/2" sq-hd pipe
		1 IMPELLER 387 931 R1	19	368 506 R91	ADJUSTER ASSY., fan pulley
		1 RING 102 069 H	179 860	SCREW, hex-hd cap	
		1 PACKAGE 701 331 C92	304 016 R1	SCREW, special hex-hd cap	
		1 SHAFT 276 602 R91)	103 322	WASHER, lock (2)	
			N-86 687	WASHER, flat	
	304 575 R1	SPACER, fan	20	368 509 R1	PULLEY, fan adjuster (D-236 for 3616 w/Gear Drive) (D-282 for H-50B w/High Mounted Fan)
	23 815 R1	SCREW, hex-hd cap (4)		672 023 C1	PULLEY, fan adjuster (D-236 for 3616 w/Hydrostatic Transmission)
	27 616 R1	WASHER, hardened (4)	21	559 205 R91	SHAFT and BEARING, fan adjuster
	444 509	PLUG, 1/2" sq-hd, water pump body pipe (2)	22	368 506 R1	ADJUSTER, fan pulley
	444 661	PLUG, 3/8" sq-soc-hd, water pump body pipe	23	358 326 C91	BELT, fan (Matched Set) (D-282 for H-50B w/High Mounted Fan) 1137 to 15347
	444 789	PLUG, 1/2" sq-hd, water pump body pipe	23		BELT, fan (Refer to Chassis Catalog) (D-236 for 3616)

ENGINE VARIATIONS

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R)
(D-282 for H-50A, H-50B w/o High Mounted Fan and H-50C)

2	304 435 R1	PULLEY, water pump
	181 309	SCREW, hex-hd cap (4)
	103 319	WASHER, lock (4)
16	308 441 R2	ELBOW, water inlet (D-236) - 1221 to 9898 (D-282) - 1137 to 15347

(x) - As Required.

(*) - Part number and price covers one foot of hose
Furnished only in three foot lengths

COOLING

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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WATER PUMP AND RELATED PARTS - Continued
 (D-236 for H-30A, H-30B, H-30B-F, H-30B-R and 3616)
 (D-282 for H-50A, H-50B, H-50C and 2706)

ENGINE VARIATIONS - Continued

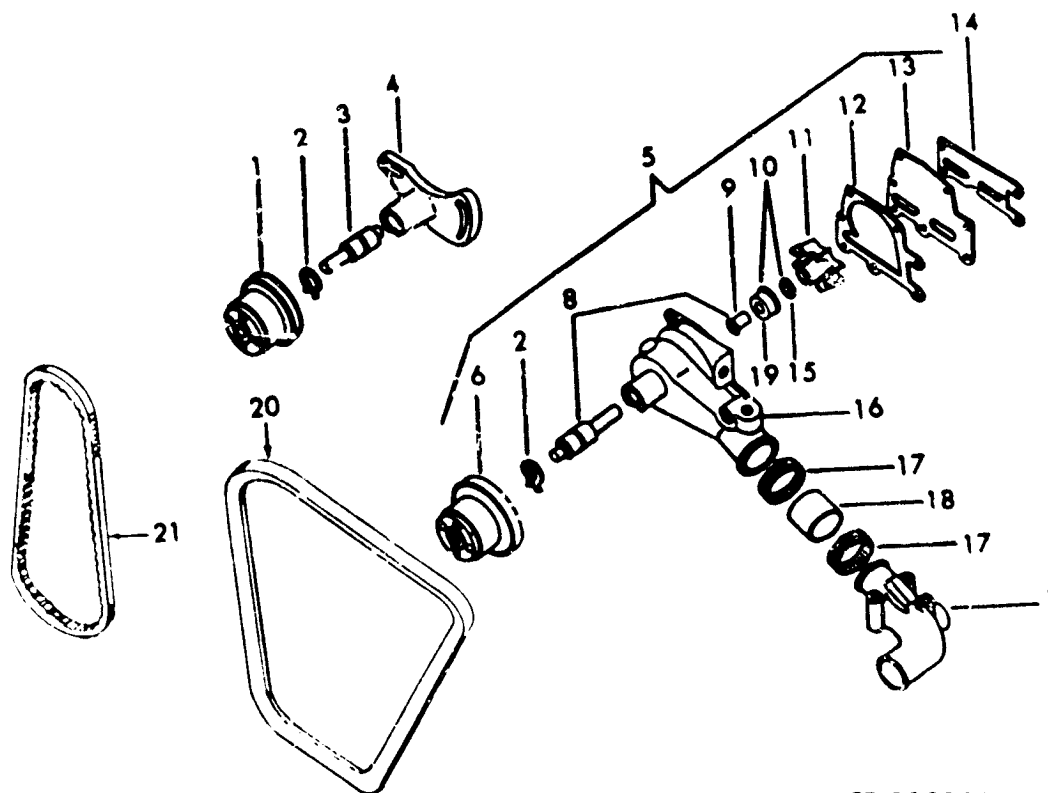
(D-282 for 2706)

2	368 502 R1 181 309 103 319	PULLEY, water pump SCREW, hex-hd cap (4) WASHER, med lock (4)			
16	278 278 R2 179 850 103 321	ELBOW, water inlet SCREW, hex-hd cap (3) WASHER, med. lock (3)			
20	378 609 R1	PULLEY, fan 46441 to 49663			
20	372 724 R1	PULLEY, fan 49664 and up			
21	559 205 R91	SHAFT and BEARING, fan adjuster			
22	609 400 C1 304 016 R1 179 860 M-36 687 103 322	ADJUSTER, fan pulley SCREW, fan adjuster SCREW, hex-hd cap WASHER, fan adjuster (2) WASHER, med. lock (2)			
23		BELT, fan (Refer to Chassis Catalog)			

REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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WATER PUMP AND RELATED PARTS
(D-282 for 2656, 3600A, 3800 and 3850)



CE-112166

1	(See Individual Engine Variation)	12	69 674 R1	GASKET, water pump plate
2	327 316 R1 RETAINER, bearing (2)	13	69 675 R1 441 444	PLATE, water pump SCREW, slit-pan-hd mach (3)
3	559 205 R91 BEARING and SHAFT ASSY., fan adjuster	14	69 676 R1	GASKET, water pump
4	(See Individual Engine Variation)	15	684 432 C1	SEAT, water pump seal
5	701 128 C92 PUMP ASSY., water 179 848 SCREW, 2-1/4" long hex-hd cap 179 849 SCREW, 2-1/2" long hex-hd cap (3) 103 321 WASHER, med. lock (4)	16		BODY, water pump (Not furnished separately)
6	395 914 R1 PULLEY, water pump OR 395 815 R2 PULLEY, water pump	17	279 038 C91	CLAMP, water pump inlet hose (2)
7	278 278 R2 ELBOW, water inlet 179 850 SCREW, hex-hd cap (3) 103 321 WASHER, med. lock (3)	18	407 008 R1	HOSE, water pump inlet
8	376 602 R91 SHAFT and BEARING ASSY.	19		SEAL, water pump (Order PACKAGE, 701 331 C93)
9	71 351 R1 SLINGER, water pump	20		BELT, alternator/generator and water pump (Refer to Chassis Catalog)
10	701 331 C93 PACKAGE, water pump seal	21		BELT, fan (Refer to Chassis Catalog)
11	387 931 R1 IMPELLER, water pump (Also order WATER PUMP SEAL PACKAGE, 701 331 C93)			

REF. NO.	PART NUMBER	DESCRIPTION
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REF. NO.	PART NUMBER	DESCRIPTION
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WATER PUMP AND RELATED PARTS - Continued
(D-282 for 2656, 3600A, 3800 and 3850)

- 374 544 R94 PACKAGE, water pump service
(Consists of -
- | | | |
|---|----------|--------------|
| 1 | GASKET | 69 674 R1 |
| 1 | GASKET | 69 676 R1 |
| 1 | IMPELLER | 387 031 R1 |
| 1 | RING | 102 189 H |
| 1 | PACKAGE | 701 331 C92 |
| 1 | SHAFT | 378 602 R91) |

ENGINE VARIATIONS

(D-282 for 2656)

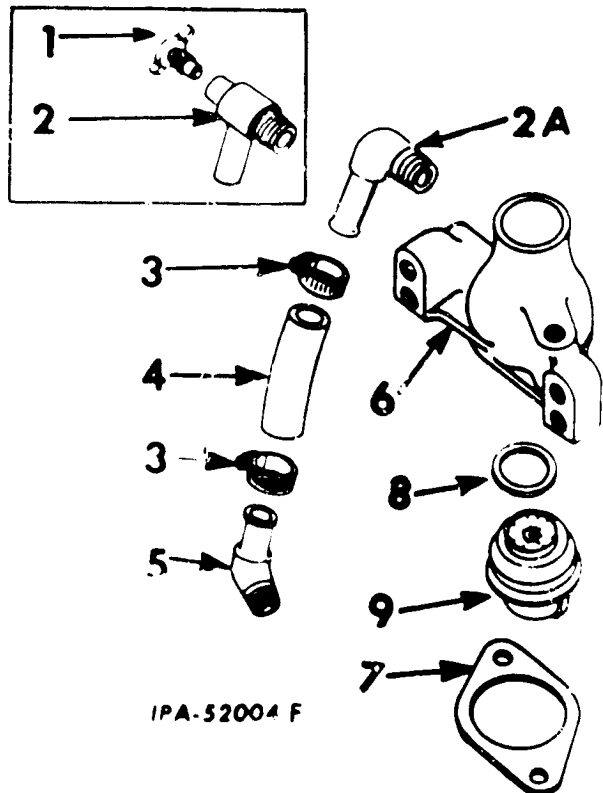
- | | | |
|---|------------|-----------------------|
| 1 | 372 724 R1 | PULLEY, fan |
| 4 | 395 816 R1 | ADJUSTER, fan pulley |
| | 304 016 R1 | SCREW, fan pulley |
| | 179 860 | SCREW, fan adjuster |
| | 106 264 | WASHER, flat (2) |
| | 103 322 | WASHER, med. lock (2) |

(D-282 for 3600A, 3800 and 3850)

- | | | |
|---|------------|---|
| 1 | 406 605 R1 | PULLEY, fan |
| 4 | 609 400 C1 | ADJUSTER, fan pulley |
| | 304 016 R1 | BOLT, fan pulley adjuster |
| | 103 322 | WASHER, lock |
| | 106 264 | WASHER, flat |
| | 362 120 R1 | CLIP (At water pump lower LH and RH bolt) (D-282 for 3600A) (2) |

REF. NO. PART NUMBER DESCRIPTION

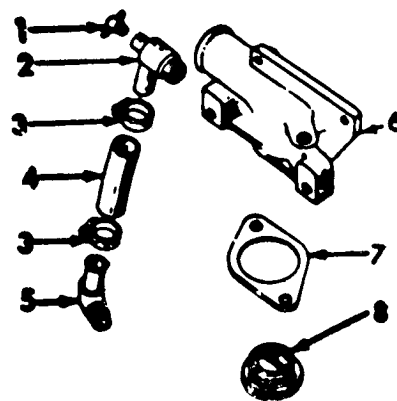
THERMOSTAT, THERMOSTAT HOUSING, WATER BY-PASS VALVE AND CONNECTIONS
(All Models except D-282 for 2656)



- 1 538 V STEM, water pump by-pass valve (Order ELBOW, 320 275 R1)
- 2 303 483 R1 BODY, water pump by-pass valve (Order ELBOW, 320 275 R1)
- 2A 320 275 R1 ELBOW, water pump by-pass hose (Will work for STEM, 538 V and BODY, 303 483 R1)
- 3 274 065 R01 CLAMP, water pump by-pass hose (2)
- 4 278 807 R1 HOSE, water pump by-pass (4 x 5/8" x 3/16")
- 5 278 089 R1 ELBOW, water pump by-pass hose (45°)
- 6 278 279 R2 HOUSING, thermostat
24 854 R1 SCREW, hex-hd cap (2)
26 272 R1 WASHER, hardened (2)
- 7 278 260 R1 GASKET, thermostat housing
- 8 262 802 R1 SEAL, thermostat
- 9 313 942 R01 THERMOSTAT w/SEAL, 262 882 R1 (170° to 190°)
- 263 514 R01 CLIP (At top of thermostat housing front LH hole) (D-282 for 3600A)

REF. NO. PART NUMBER DESCRIPTION

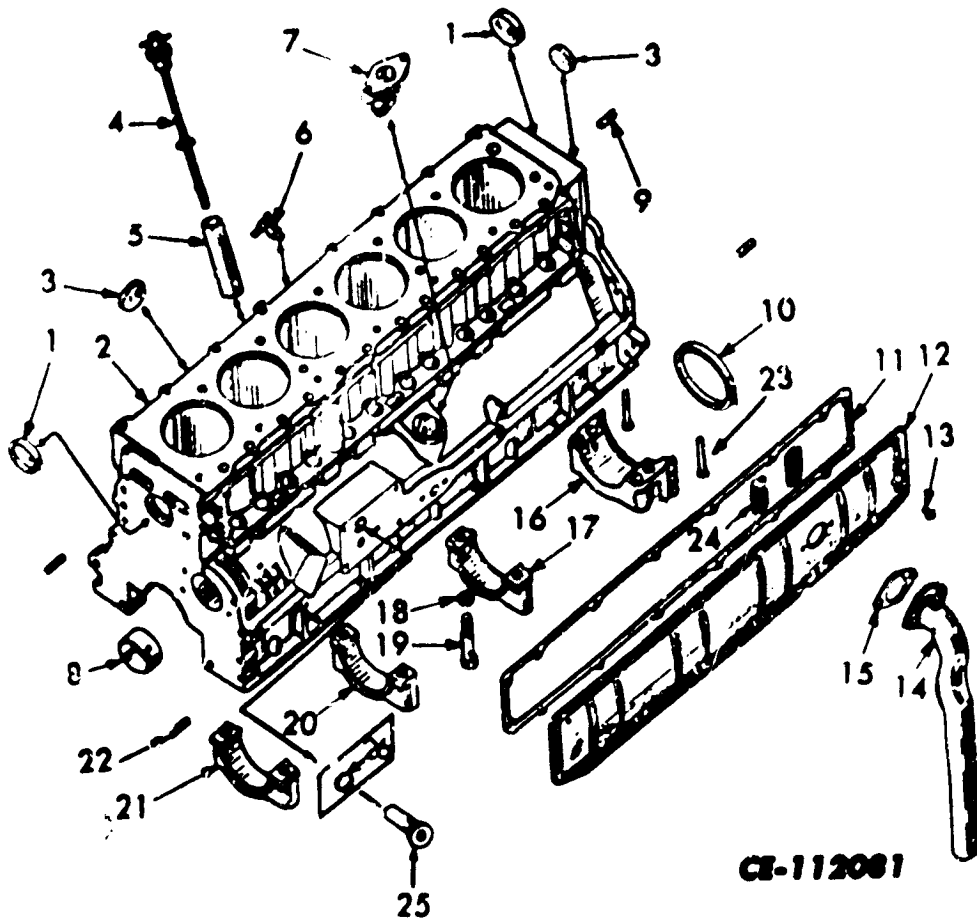
THERMOSTAT, THERMOSTAT HOUSING, WATER PUMP BY-PASS VALVE AND CONNECTIONS
(D-282 for 2656)



CE-112080

- 1 538 V STEM, water pump by-pass valve
- 2 444 044 ELBOW, 1/2"NPT
- 3 274 065 R01 CLAMP, water pump by-pass hose (2)
- 4 320 182 R1 HOSE, water pump by-pass
- 5 169 192 R1 ELBOW, water pump by-pass hose
- 6 612 229 C1 HOUSING, thermostat
179 869 SCREW, hex-hd cap (2)
103 322 WASHER, med. lock (2)
- 7 278 260 R1 GASKET, thermostat housing
- 8 313 942 R01 THERMOSTAT w/SEAL (170°-190°)
262 882 R1 SEAL, thermostat
- 370 820 R1 CLIP, water outlet housing LH hole

CRANKCASE AND RELATED PARTS



CE-112081

1	20 840 R1	PLUG, core hole (2)	3	70 128 R1	PLUG, core hole (8)
2	612 017 C92	CRANKCASE ASSY. (Will work for CRANKCASE, 601 776 C91) (Together with "O" RING, 3/4 055 R2 and VALVE, 612 092 C91, will work for CRANKCASE, 312 434 R93) (Composed of -	4		(See Individual Engine Variation)
	§ 4	BEARING	5	368 985 R2	TUBE, oil filler
	10	BOLT 328 512 R1	6	9 982 T	VALVE, 1/4" drain (x)
	§ 4	BUSHING	6	444 618	PLUG, 1/4" hex-hd pipe (x)
	§ 4	CAP	7		(See Individual Engine Variation)
	§ 1	CRANKCASE	8	70 259 R2	BEARING, camshaft (Front)
	2	DOWEL 141 285	8	70 260 R1	BEARING, camshaft (Intermediate front)
	2	DOWEL 371 699 R2	8	70 261 R2	BEARING, camshaft (Intermediate rear)
	2	PIN 19 328 R1	8	70 262 R1	BEARING, camshaft (Rear)
	6	PLUG 70 128 R1	9	371 699 R2	DOWEL, engine rear support (2)
	2	PLUG 20 840 R1	10	538 983 R1	OIL SEAL, rear bearing cap
	3	PLUG 444 671	11	369 982 R1	GASKET, valve push rod cover
	2	PLUG 444 782			
	1	PLUG 50 410 DA			
	§ 6	SLEEVE			
	1	TUBE 368 985 R2			
	10	WASHER 345 409 R1)			
50 140 DA		PLUG, 1/8" hex-sock pipe			
444 671		PLUG, 1/8" sq-hd pipe (3)			
444 782		PLUG, 3/8" short sq-socket pipe (2)			
19 328 R1		PIN, 3/8 x 3/4" spring (2)			

(x) - As Required.
§ - Not Furnished Separately.

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKCASE AND RELATED PARTS - Continued			26	349 065 R2	"O" RING, oil pressure regulating valve (Used only when CRANKCASE, 601 776 C91 or 612 017 C92 replaces CRANKCASE, 312 434 R93)
12	315 970 R91	COVER w/two ELEMENTS, 315 849 R1, ASSY., valve push rod			(D-238 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 6565
13	376 812 R91	SCREW w/WASHER, slt-truss-hd mach (16)			(D-238 for 3618) - 15401 to 16026
14	368 429 R31 374 587 R91	PIPE w/FLANGE, breather SCREW w/WASHER, slt-rd-hd mach (2)			(D-282 for H-50A, H-50B and H-50C) - 1137 to 8975
15	269 981 R1	GASKET, breather pipe			(D-282 for 2656, 2706, 3600A, 3800 and 3850) - 67799 and below
16	306 674 R1	CAP, crankshaft rear bearing (Partially finished. See Service Manual)	530 036 R91		GASKET SET, crankcase (Will work for GASKET PACKAGE, 332 652 R91) (D-238 for 3618) (D-282 for 2656, 2706, 3600A, 3800 and 3850)
17	306 673 R1	CAP, crankshaft rear intermediate bearing (Partially finished. See Service Manual)			(Consists of -
18	345 109 R1	WASHER, crankshaft bearing cap bolt (10)	369 981 R1 278 268 R1 278 265 R1 369 984 R1		GASKET, breather pipe flange GASKET, crankcase front cover GASKET, crankcase front plate GASKET, crankcase oil pan
19	328 512 R1	BOLT, crankshaft bearing cap (10)	278 347 R1 278 270 R2		GASKET, injection pump adaptor GASKET, injection pump gear cover
20	306 672 R1	CAP, crankshaft bearing intermediate front (Partially finished. See Service Manual)	349 039 R1		GASKET, lubricating oil filter base
21	306 671 R1	CAP, crankshaft front bearing (Partially finished. See Service Manual)	601 790 C1 3 405 H		GASKET, lubricating oil filter base GASKET, lubricating oil pressure relief valve plug
22	141 285	DOWEL, crankcase front plate (2)	349 038 R1 304 854 R1 3 405 H		GASKET, oil cooler manifold GASKET, oil filter case GASKET, oil pan drain plug
23	310 665 R1	PLUG, rear bearing cap seal (2)	353 936 R2 69 607 R1 369 982 R1		GASKET, oil pan shaft support GASKET, oil pump body GASKET, push rod cover
24	315 849 R1	ELEMENT, breather (2)	261 403 R1 69 676 R1 69 674 R1 51 527 DC 350 684 R1		GASKET, relief valve plug GASKET, water pump GASKET, water pump plate GASKET, water trap
25	612 092 CS1	VALVE, oil pressure regulating (Used only when CRANKCASE, 601 776 C91 or 612 017 C92 replaces CRANKCASE, 312 434 R93) (D-238 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 6565 (D-238 for 3618) - 15401 to 16026 (D-282 for H-50A, H-50B and H-50C) - 1137 to 8975 (D-282 for 2656, 2706, 3600A, 3800 and 3850) - 67799 and below			"O" RING, oil cooler to manifold (2)
25	341 195 R92	VALVE, oil pressure regulating (D-238 for H-30A, H-30B, H-30B-F and H-30B-R) - 6566 and up (D-238 for 3618) - 16027 and up (D-282 for H-50A, H-50B and H-50C) - 8976 and up (D-282 for 2656, 2706, 3600A, 3800 and 3850) - 67800 and up	304 012 R1 312 506 R1 632 851 R1 254 954 R1 310 665 R1 332 652 R91		GASKET, center tube GASKET, crankcase front cover GASKET, hydraulic gear pump "O" RING, pump adapter PLUG, rear bearing cap filler (2)
			310 665 R1 3 405 H 3 405 H 51 527 DC 69 607 R1 69 674 R1 69 676 R1		GASKET SET, crankcase (D-238 for H-30A, H-30B, H-30B-F and H-30B-R) (D-282 for H-50A, H-50B and H-50C)
					(Consists of - BOOT, seal (2) GASKET, oil pan drain plug GASKET, lubricating oil pressure relief valve plug GASKET, water trap GASKET, oil pump body GASKET, water pump plate GASKET, water pump

...Continued

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

332 852 R91		GASKET SET, crankcase (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) (D-282 for H-50A, H-50B and H-50C) - Continued (Consists of -
251 403 R1		GASKET, relief valve plug
278 285 R1		GASKET, crankcase front plate
278 268 R1		GASKET, crankcase front cover
278 270 R1		GASKET, injection pump gear cover
278 347 R1		GASKET, injection pump adapter
304 854 R1		GASKET, oil filter case
349 038 R1		GASKET, oil cooler manifold
349 039 R1		GASKET, lubricating oil filter base
353 936 R2		GASKET, oil pan shaft support
369 981 R1		GASKET, breather pipe flange
369 982 R1		GASKET, push rod cover
369 984 R1		GASKET, crankcase oil pan
601 790 C1		GASKET, lubricating oil filter base
304 720 R1		"O" RING, pump adapter
350 684 R1		"O" RING, 3/4 x 1 x 1/8" (2)
304 012 R1		GASKET, center tube

ENGINE VARIATIONS

(D-2P2 for 3600A)

4	368 986 R91	GAUGE, oil level
7	306 637 R11	SUPPORT w/PLUG, 172 558, oil pump shaft
	172 558	PLUG, expansion

(D-282 for 2656)

4	670 072 C91	GAUGE, oil level
7		SUPPORT, oil pump shaft (Refer to "Oil Pump Support")

(D-236 for 3616)

(D-282 for 2708, 3800 and 3850)

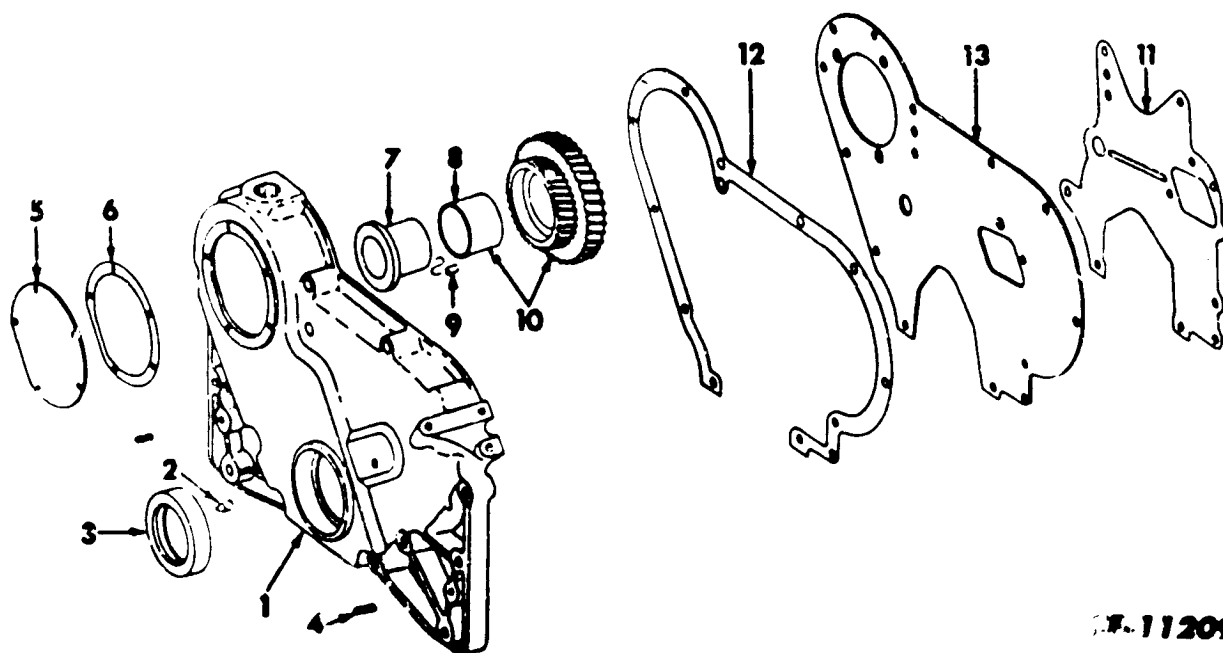
4	368 986 R11	GAUGE, oil level
7		SUPPORT, oil pump shaft (Refer to "Oil Pump Support")

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R)

(D-282 for H-50A, H-50B and H-50C)

4	368 986 R91	GAUGE, oil level
7		SUPPORT, oil pump shaft (Refer to "Oil Pump Support")

CRANKCASE FRONT COVER AND IDLER GEAR



112098

1		(See Individual Engine Variation)
2	367 572 R1	POINTER, timing
3	317 549 R91	SEAL, crankshaft oil
4		(See Individual Engine Variation)
5	278 269 R1 25 955 R1 27 328 R1	COVER, injection pump gear SCREW, hex-hd cap (5) WASHER, med. lock (5)
6	278 270 R2	GASKET, injection pump gear cover
7	367 580 R11 24 865 R1 26 273 R1	SHAFT w/DOWEL, 141 150, idler gear SCREW, hex-hd cap WASHER, med. lock
8	367 578 R1	BUSHING, idler gear
9	141 150	PIN, idler gear shaft dowel
10	278 263 R11	GEAR ASSY., idler (44T)
11	278 265 R1	GASKET, crankcase front plate
12	278 268 R1	GASKET, crankcase front cover
13	278 264 R11	PLATE w/three NUTS, 874 295 C1, crankcase front (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 8182 (D-236 for 3618) - 17273 and below (D-282 for H-50A, H-50B, and H-50C) - 1137 to 12061 (D-282 for 2656, 2708, 3800 and 3850) - 77499 and below

13	612 161 C11	PLATE, crankcase front (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 8183 and up (D-236 for 3618) - 17274 and up (D-282 for H-50A, H-50B and H-50C) - 12062 and up (D-282 for 2656, 2708, 3800, 3800 and 3850) - 77500 and up
	25 496 R1	SCREW, hex-hd cap (4)
	25 896 R1	WASHER, hardened (4)

ENGINE VARIATIONS

(D-282 for 2656 and 2708)

1	345 263 R11	COVER w/POINTER, 367 572 R1, crankcase front
	124 840 R1	SCREW, 1" long hex-hd cap (6)
	276 635 R1	SCREW, 3" long hex-hd cap (6)
	25 896 R1	WASHER, 3/8" med. lock (6)
	26 273 R1	WASHER, 1/2" med. lock (6)
	370 535 R1	CLIP, oil pressure switch cable (On push rod cover upper bolts, first and fourth from rear) (D-282 for 2656)

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

ENGINE VARIATIONS - Continued

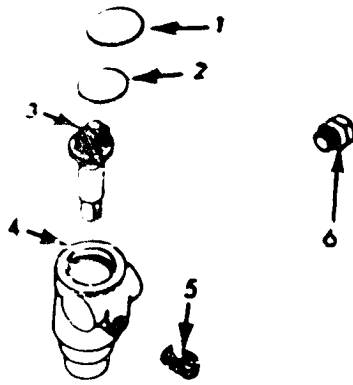
(D-236 for H-30A, H-30B, H-30B-F, H-30B-R and 3616)
(D-282 for H-50A, H-50B, H-50C, 3600A, 3800 and 3850)

1	328 542 R11	COVER w/POINTER, 367 572 R1 and two PIN, 19 892 R1, crankcase front
	24 840 R1	SCREW, 1" long hex-hd cap (6)
	275 835 R1	SCREW, 3" long hex-hd cap (6)
	25 896 R1	WASHER, 3/8" med. lock (6)
	28 273 R1	WASHER, 1/2" med. lock (6)
4	19 892 R1	PIN, dowel (2)
	370 535 R1	CLIP, oil pressure switch cable (On push rod cover upper bolts first and fourth from rear) (D-282 for 3600A)
	362 120 R1	CLIP, front plate far left bolt (D-282 for 3600A)
	363 660 R1	CLIP, front plate top bolt LH side (D-282 for 3600A)
	365 584 R1	CLIP, cable (D-236 for 3616) (D-282 for 3800 and 3850)
	384 559 R1	CLIP, front cover plate (D-236 for 3616)
	362 667 R1	CLIP, crankcase front plite (D-236 for 3616)

CRANKCASE

REF. NO.	PART NUMBER	DESCRIPTION
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OIL PUMP SUPPORT
 (D-236 for H-30A, H-30B, H-30B-F and H-30B-R,
 (D-282 for H-50A, H-50B and H-50C)

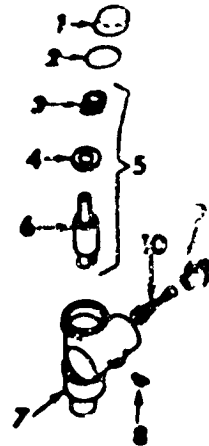


CE-112079

- | | | |
|---|-------------|---|
| | 315 704 R91 | SUPPORT ASSY., tachometer drive and oil pump shaft |
| | 137 195 | PIN, 1/3 x 1-1/4" cotter
(Consists of the following parts - |
| 1 | 172 557 | PLUG, housing expansion (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 977 and up (D-282 for H-50A, H-50B and H-50C) - 1482 and up |
| 2 | 312 162 R1 | PLATE, tachometer thrust |
| 3 | 315 705 R91 | SHAFT w/GEAR and WASHER, tachometer drive |
| 4 | | HOUSING, oil pump shaft support (Not furnished separately) |
| 5 | 106 460 | FITTING, lubrication |
| 6 | 369 013 R1 | PLUG, distributor housing |

REF. NO.	PART NUMBER	DESCRIPTION
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OIL PUMP SUPPORT
 (D-236 for 3610)
 (D-282 for 2656, 2706, 3800 and 3850)



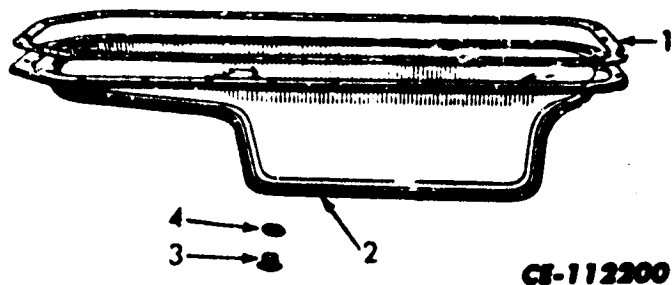
CE-112042

- | | | |
|----|-------------|--|
| | 670 186 C91 | SUPPORT ASSY., oil pump shaft (Will work for SUPPORT ASSY., 349 384 R91)
(Consists of the following parts - |
| 1 | 172 557 | PLUG, oil pump shaft support housing |
| 2 | 312 162 R1 | PLATE, tachometer thrust |
| 3 | | GEAR, tachometer drive (Not furnished separately) |
| 4 | | WASHER, tachometer thrust (Not furnished separately) |
| 5 | 312 159 R11 | SHAFT, tachometer drive |
| 6 | | SHAFT, tachometer drive (Not furnished separately) |
| 7 | | HOUSING, oil pump shaft support (Not furnished separately) |
| 8 | 62 055 R91 | FITTING, lubrication |
| 9 | 368 246 R1 | HOUSING, tachometer connection |
| 10 | 368 245 R12 | GEAR, tachometer drive |

CRANKCASE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CRANKCASE OIL PAN



- | | | |
|---|------------|-----------------------------------|
| 1 | 369 984 R1 | GASKET, crankcase pan |
| 2 | | (See Individual Engine Variation) |
| 3 | | (See Individual Engine Variation) |
| 4 | 3 405 H | GASKET, oil pan drain plug |

ENGINE VARIATIONS

(All Models except H-50A, H-50B and H-50C)

- | | | |
|---|-------------|---|
| 2 | 367 575 R92 | PAN w/GASKET, 3 405 H and PLUG, 688 067 C1, crankcase oil |
| | 25 528 R1 | SCREW, hex-hd cap (25) |
| | 27 326 R1 | WASHER, med. lock (25) |
| 3 | 688 067 C1 | PLUG, crankcase oil pan drain |
| | 384 559 R1 | CLIP (Oil pan mounting bolts) (D-282 for 3800 and 3850) (3) |

(D-282 for H-50A and H-50B)

- | | | |
|---|-------------|-------------------------------|
| 2 | 323 864 R11 | PAN, crankcase oil |
| | 25 528 R1 | SCREW, hex-hd cap (25) |
| | 27 326 R1 | WASHER, med. lock (25) |
| 3 | 688 067 C1 | PLUG, crankcase oil pan drain |

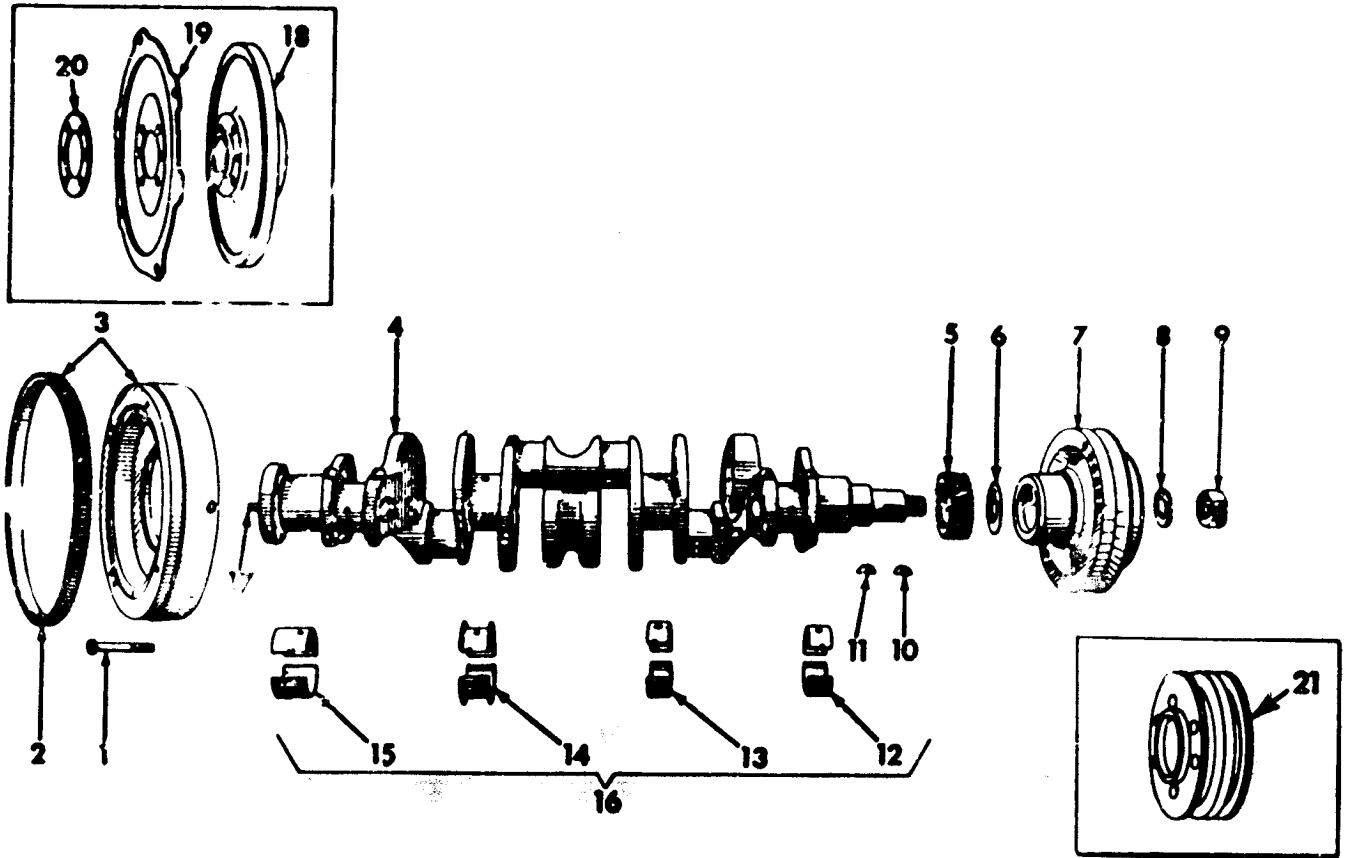
(D-282 for H-50C)

- | | | |
|---|-------------|-------------------------------|
| 2 | 612 088 C91 | PAN, crankcase oil |
| | 25 528 R1 | SCREW, hex-hd cap (25) |
| | 27 326 R1 | WASHER, med. lock (25) |
| 3 | 438 159 | PLUG, crankcase oil pan drain |

CRANKSHAFT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CRANKSHAFT, FLYWHEEL AND BEARING



CE-112172

1	(See Individual Engine Variation)	12	376 670 R91	BEARING ASSY., crankshaft front (2 halves) (.010" undersize)
2	(See Individual Engine Variati	12	376 683 R91	BEARING ASSY., crankshaft front (2 halves) (.020" undersize)
3	(See Individual Engine Variatio.))	12	367 288 R91	BEARING ASSY., crankshaft front (2 halves) (.030" undersize)
4	(See Individual Engine Variation)	13	387 279 R91	BEARING ASSY., crankshaft intermediate (2 halves) (Standard)
5	367 272 R1	13	367 303 R91	BEARING ASSY., crankshaft intermediate (2 halves) (.002" undersize)
6	71 763 R2	13	376 673 R91	BEARING ASSY., crankshaft intermediate front (2 halves) (.010" undersize)
7	(See Individual Engine Variation)	13	376 686 R91	BEARING ASSY., crankshaft intermediate front (2 halves) (.020" undersize)
8	70 106 R1	13	367 291 R91	BEARING ASSY., crankshaft intermediate front (2 halves) (.030" undersize)
9	(See Individual Engine Variation)			
10	117 994			
11	124 552			
12	367 275 R01			
12	367 300 R91			

CRANKSHAFT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKSHAFT, FLYWHEEL AND BEARINGS - Continued			15	376 679 R91	BEARING ASSY., crankshaft rear (2 halves) (.010" undersize)
14	367 282 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (Standard) (D-236) - % and below (D-282) - 44821 and below	15	376 692 R91	BEARING ASSY., crankshaft rear (2 halves) (.020" undersize)
14	332 267 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (Standard) (D-236) - % and up (D-282) - 44822 and up	15	367 297 R91	BEARING ASSY., crankshaft rear (2 halves) (.030" undersize)
14	367 306 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (.002" undersize) (D-236) - % and below (D-282) - 44821 and below	16	367 275 R91	BEARING SET, crankshaft (Standard) (D-236) - % and below (D-282) - 44821 and below
14	332 273 R91	BEARING ASSY., crankshaft intermediate (2 halves) (.002" undersize) (D-236) - % and up (D-282) - 44822 and up	16	382 357 R91	BEARING SET, crankshaft (Standard) (D-236) % and up (D-282) - 44822 and up
14	376 676 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (.010" undersize) (D-236) - % and below (D-282) - 44821 and below	17	32 970 R1	PIN, flywheel to crankshaft dowel
14	332 276 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (.010" undersize) (D-236) - % and up (D-282) - 44822 and up	18		(See Individual Engine Variation)
14	376 689 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (.020" undersize) (D-236) - % and below (D-282) - 44821 and below	19		(See Individual Engine Variation)
14	332 279 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (.020" undersize) (D-236) - % and up (D-282) - 44822 and up	20		(See Individual Engine Variation)
14	367 284 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (.030" undersize) (D-236) - % and below (D-282) - 44821 and below	21		(See Individual Engine Variation)
14	332 270 R91	BEARING ASSY., crankshaft intermediate rear (2 halves) (.030" undersize) (D-236) - % and up (D-282) - 44822 and up			
15	367 285 R91	BEARING ASSY., crankshaft rear (2 halves) (Standard)			
15	367 309 R91	BEARING ASSY., crankshaft rear (2 halves) (.002" undersize)			

ENGINE VARIATIONS

(D-236 for H-30A, H-30B, H 30B-F and H-30B-R)

1	601 559 C1	BOLT, flywheel to crankshaft (6)
2	304 439 R1	GEAR, flywheel ring (124T)
3	308 467 R11	FLYWHEEL w/RING GEAR, 304 439 R1
4	382 355 R61	CRANKSHAFT ASSY. (Composed of 1 BEARING 332 267 R91 1 BEARING 367 276 R91 1 BEARING 367 279 R91 1 BEARING 367 285 R91 6 BEARING 367 408 R11 § 1 CRANKSHAFT 1 PIN 82 970 R1)
7	338 949 R91	DAMPER, vibration
9	219 755	NUT, crankshaft jam

% - Serial Number not available.
§ - Not Furnished Separately.

CRANKSHAFT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKSHAFT, FLYWHEEL AND BEARINGS - Continued			<u>(D-282 for H-50A, H-50B and H-50C)</u>		
<u>ENGINE VARIATIONS - Continued</u>					
<u>(D-236 for 3616)</u>					
1	601 561 C1	BOLT, flywheel to crankshaft (Gear Drive) (6)	1	601 559 C1	BOLT, flywheel to crankshaft (6)
1	80 306 C1	BOLT, flywheel to crankshaft (Hydrostatic Transmission) (6)	2	304 439 R1	GEAR, flywheel ring (124T)
2	367 042 R1	GEAR, flywheel ring (134T) (Gear Drive) 1772 and below	3	308 467 R11	FLYWHEEL w/RING GEAR, 304 439 R1
2	396 421 R1	GEAR, flywheel ring (133T) (Gear Drive) 1773 and up (Hydrostatic Transmission) 501 and up	4	320 188 R93	CRANKCASE ASSY. (Composed of - 1 BEARING 367 282 R91 1 BEARING SET 382 357 R91 1 BEARING SET 367 630 R91 § 1 CRANKSHAFT 1 PAMPHLET 1 019 253 R2 1 PIN 82 970 R1)
3	367 506 R31	FLYWHEEL w/RING GEAR, 367 042 R1 (Gear Drive) 1330 and below	7	338 949 R91	DAMPER, vibration
3	396 419 R91	FLYWHEEL w/RING GEAR, 396 421 R1 (Gear Drive) 1331 to 1772	9	219 755	NUT, crankshaft jam
3	396 420 R91	FLYWHEEL w/RING GEAR, 396 421 R1 (Gear Drive) 1773 and up	21	601 546 C1	PULLEY, auxiliary drive (For H-50B w/High Mounted Fan) 179 849 SCREW, hex-hd cap (6) 103 321 WASHER, lock (6)
3	396 468 R21	FLYWHEEL w/RING GEAR, 396 421 R1 (Hydrostatic Transmission)	<u>(D-282 for 2656)</u>		
4	382 355 R91	CRANKSHAFT ASSY. (Composed of - 1 BEARING SET 382 357 R91 1 BEARING 367 630 R91 § 1 CRANKSHAFT 1 PIN 82 970 R1)	1	332 136 R1	BOLT, flywheel to crankshaft (Hydrostatic Transmission) (6)
7	338 962 R91	DAMPER, vibration (Gear Drive)	1	601 561 C1	BOLT, flywheel to crankshaft (Gear Drive) (6)
7	702 136 C1	DAMPER, vibration (Hydrostatic Transmission)	2	367 042 R1	GEAR, flywheel ring (Gear Drive)
9	23 174 V	NUT, starting crank	2	396 421 R1	GEAR, flywheel ring (Hydrostatic Transmission)
18	391 601 R3	FLYWHEEL (For Hydra-Shuttle Transmission)	3	388 302 R21	FLYWHEEL w/RING GEAR, 367 042 R1 (Gear Drive)
19	391 602 R1	PLATE, converter drive (For Hydra-Shuttle Transmission)	3		FLYWHEEL (Order PACKAGE, 537 136 R91) (Hydrostatic Transmission)
20	391 603 R1	RETAINER, back-up (For Hydra-Shuttle Transmission) (6)	4	320 188 R93	CRANKSHAFT ASSY. (Composed of - 1 BEARING 367 282 R91 1 BEARING SET 367 630 R91 1 BEARING SET 382 357 R91 § 1 CRANKSHAFT 1 PIN 82 970 R1)
	601 561 C1	BOLT, back-up retainer (6)	7	702 136 C1	DAMPER, vibration (Gear Drive)
			7	347 R26 R91	DAMPER, vibration (Hydrostatic Transmission)
			9	23 174 V	NUT, starting crank

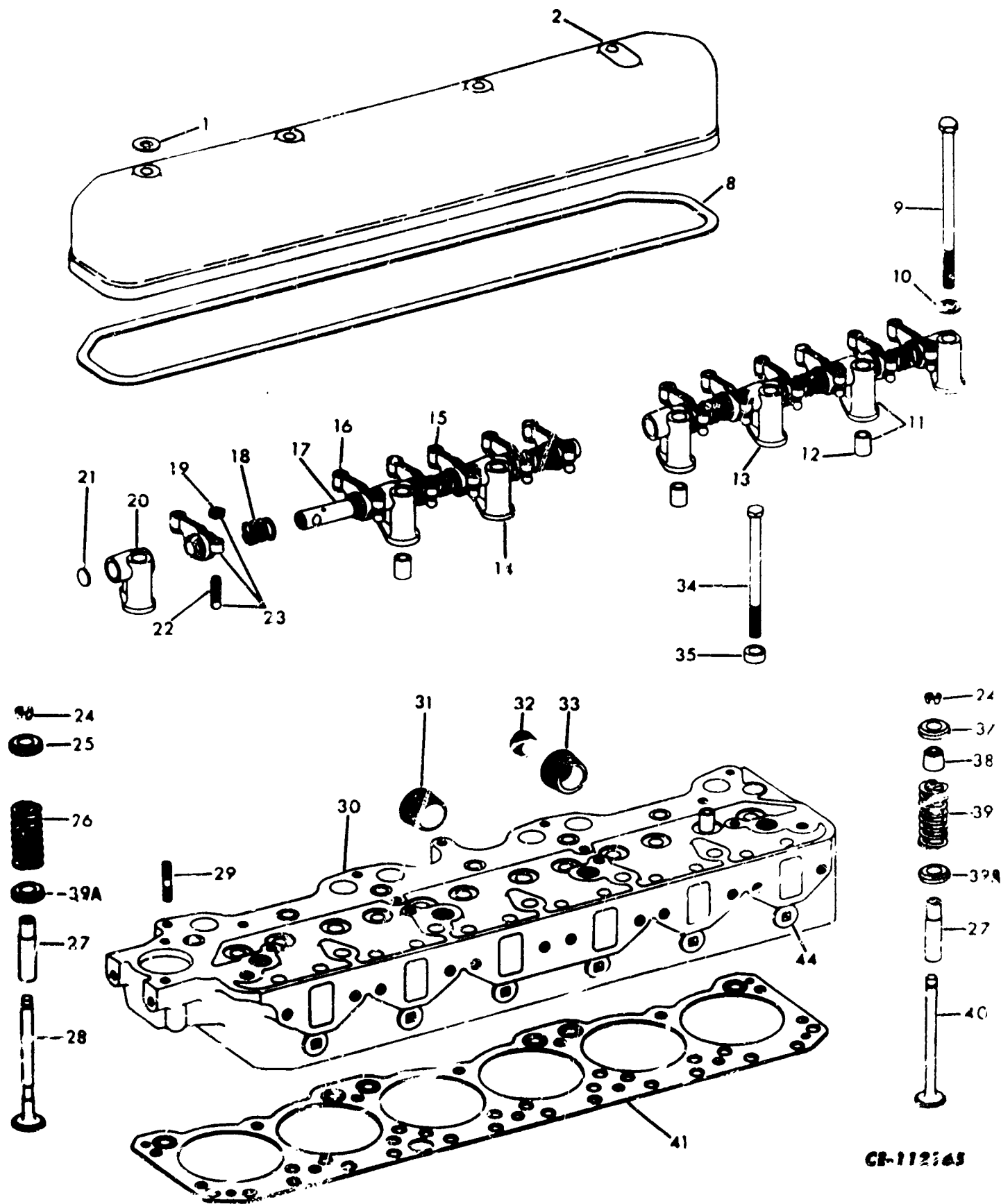
§ - Not Furnished Separately.

CRANKSHAFT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKSHAFT, FLYWHEEL AND BEARINGS - Continued			<u>(D-282 for 3970 and 3870)</u>		
			1	19 466 R1	BOLT, flywheel to crankshaft (6)
			2	304 439 R1	GEAR, flywheel ring
			3	612 061 C91	FLYWHEEL w/RING GEAR, 304 439 R1
			4	320 188 R93	CRANKSHAFT ASSY. (Composed of -
				1 BEARING	367 282 R91
				1 BEARING SET	367 630 R91
				1 BEARING SET	382 357 R91
				§ 1 CRANKSHAFT	
				1 PIN	82 970 R1)
			7	702 136 C1	DAMPER, vibration
			9	23 174 V	NUT, starting crank
<u>ENGINE VARIATIONS - Continued</u>					
<u>(D-282 for 2656) - Continued</u>					
537 135 R91		PACKAGE, flywheel service (Together with Drive Plate PACKAGE, 532 249 R91, will work for FLYWHEEL, 396 468 R21) (Hydrostatic Transmission) (Consists of FLYWHEEL, gear, 396 421 R1 and six BOLT, 332 136 R1)			
532 249 R91		PACKAGE, drive plate assembly service (Hydrostatic Transmission) (Consists of -			
		§ 1 INSTRUCTION			
		§ 1 LUBRICANT			
		§ 1 PLATE			
		6 SCREW		324 711 R1	
		6 WASHER		615 890 C1)	
<u>(D-282 for 2706)</u>					
1	323 979 R1	BOLT, flywheel to crankshaft (6)			
2	341 604 R1	GEAR, flywheel ring			
3	332 978 R92	FLYWHEEL w/RING GEAR, 341 604 R1			
4	320 188 R93	CRANKSHAFT ASSY. (Composed of -			
		1 BEARING		367 282 R91	
		1 BEARING SET		367 630 R91	
		1 BEARING SET		382 357 R91	
		§ 1 CRANKSHAFT			
		1 PIN		82 970 R1)	
7	347 826 R91	DAMPER, vibration			
9	23 174 V	NUT, starting crank			
<u>(D-282 for 3600A)</u>					
1	332 136 R1	BOLT, flywheel to crankshaft (6)			
2	45 638 DB	GEAR, flywheel ring			
3	680 556 C91	FLYWHEEL w/RING GEAR, 45 638 DB			
4	320 188 R93	CRANKSHAFT ASSY. (Composed of -			
		1 BEARING		367 282 R91	
		1 BEARING SET		367 630 R91	
		1 BEARING SET		382 357 R91	
		§ 1 CRANKSHAFT			
		1 PIN		82 970 R1)	
7	702 136 C1	DAMPER, vibration			
9	23 174 V	NUT, starting crank			

§ - Not Furnished Separately.

CYLINDER HEAD, VALVE COVER, VALVES AND
ROCKER ARM



CB-112648

CYLINDER HEAD

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CYLINDER HEAD, VALVE COVER, VALVES AND ROCKER ARM - Continued			28	278 302 R1	VALVE, exhaust (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 2839 (6) (D-282 for H-50A, H-50B and H-50C) - 501 to 3623 (6)
1	116 103	WASHER, valve cover bolt (4)			
2	278 307 R1 17 790 R1	COVER, valve SCREW, hex-hd cap (4)	28	349 361 R1	VALVE, exhaust (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 2840 and up (6) (D-236 for 3616) - 501 and up (6) (D-282 for H-50A, H-50B and H-50C) - 3624 and up (6) (D-282 for 2656, 2706, 3600A, 3800 and 3850) - 501 and up (6)
8	278 308 R1	GASKET, valve cover			
9	320 097 R1 315 701 R1	BOLT, cylinder head (Long) (x) SPACER, cylinder head bolt (2)			
10	345 409 R1	WASHER, cylinder head bolt (7)			
11	76 860 R11	BRACKET w/DOWEL, 69 500 R1, rocker arm shaft (Nos. 2, 4 and 6) (3)	28	612 312 C1	VALVE, exhaust (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 2840 and up (6) (D-236 for 3616) - 501 and up (6) (D-282 for H-50A, H-50B and H-50C) - 3624 and up (6) (D-282 for 2656, 2706, 3600A, 3800 and 3850) - 501 and up (6)
12	69 500 R1	DOWEL, rocker arm shaft bracket (3)			
13	76 858 R1	BRACKET, rocker arm shaft (No. 5)			
14	76 858 R1	BRACKET, rocker arm shaft (No. 3)			
15	278 304 R21	ARM w/SCREW, 16 067 DA and NUT, 133 093 R1, RH exhaust rocker (3)	29	303 473 R1	STUD, exhaust manifold (10)
16	323 727 R91	ARM w/SCREW, 16 067 DA and NUT, 133 093 R1, intake rocker (Will work for ARM, 91 121 R92) (6)	30		(See Individual Engine Variation)
17	318 020 R11	SHAFT w/PLUG, 169 071 R1, rocker arm (2)	31	601 244 C1	PLUG, 1-1/4" csk-1x1/8 pipe (5)
18	35 619 H	SPRING, rocker arm shaft (6)	32	444 588	PLUG, 1/2" sq-hd pipe
19	133 093 R1	NUT, tappet adjusting screw lock (12)	33	142 765	BUSHING, 1-1/4 x 1/2" reducing pipe
20	76 859 R1	BRACKET, rocker arm shaft (Nos. 1 and 7) (2)	34	278 305 R1	BOLT, cylinder head (Short) (5)
21	169 071 R1	PLUG, cup (2)	35	278 308 R1	WASHER, cylinder head bolt (5)
22	16 067 DA	SCREW, tappet adjusting (12)	37	151 167 R3	RETAINER, valve spring (6)
23	278 303 R21	ARM w/SCREW, 16 067 DA and NUT, 133 093 R1, LH exhaust rocker (3)	38	612 107 C1	DEFLECTOR, intake valve stem oil (6)
24	41 339 D	KEY, valve spring seat (24)	39	315 744 R1	SPRING, intake valve (Together w/ ROTCOIL, 317 935 R1 and RETAINER, 151 167 R3, will work for SPRING, 367 192 R1) (6)
25	151 167 R3	RETAINER, valve spring (6)	39A	317 935 R91	ROTCOIL, intake and exhaust (12)
26	315 744 R1	SPRING, exhaust valve (Together with ROTCOIL, 317 935 R91 and RETAINER, 151 167 R3, will work for SPRING, 367 192 R1) (6)	40	278 301 R1	VALVE, intake (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 2839 (D-282 for H-50A, H-50B and H-50C) - 1137 to 3623 (6)
27	278 300 R1	GUIDE, valve (12)			

(x) - As Required.

CYLINDER HEAD

REF. NO.	PART NUMBER	DESCRIPTION
CYLINDER HEAD, VALVE COVER, VALVES AND ROCKER ARM - Continued		
40	323 774 R1	VALVE, intake (D-236 for H-30A, H-30F, H-30B-F and H-30B-R) - 284C and up (6) (D-236 for 3816) - 501 and up (6) (D-282 for H-50A, H-50B and H-50C) - 3624 and up (6) (D-262 for 2656, 2706, 3600A, 3800 and 3850) - 501 and up (6)
41	601 509 C1	GASKET, cylinder head
44	9 409 949	PLUG, 3/4" sq-roc pipe (11)
	310 446 R95	GASKET SET, valve grinding (Consists of the following -
	278 280 R1	GASKET, thermostat housing
	278 308 R1	GASKET, valve cover
	278 313 R2	GASKET, exhaust manifold ends (2)
	278 314 R1	GASKET, exhaust manifold center (2)
	305 804 R1	GASKET, intake manifold
	601 509 C1	GASKET, cylinder head
	446 210	WASHER, valve cover (4)

ENGINE VARIATIONS

(D-236 for H-30A, H-30F, H-30B-F and H-30B-R)

30	304 324 R31	HEAD ASSY., cylinder 1221 to 2839 (Composed of -
		1 BUSHING 142 765
		12 GUIDE 278 300 R1
		§ 1 HEAD
		1 PLUG 444 588
		5 PLUG 601 244 C1
		11 PLUG 9 409 949
		§ 6 SLEEVE
		10 STUD 303 473 R1)
30	323 770 R41	HEAD ASSY., cylinder 2840 and up (Composed of -
		1 BUSHING 142 765
		12 GUIDE 278 300 R1
		§ 1 HEAD
		1 PLUG 444 588
		11 PLUG 9 409 949
		5 PLUG 601 244 C1
		§ 6 SLEEVE
		10 STUD 303 473 R1)

REF. NO.	PART NUMBER	DESCRIPTION
<u>(D-282 for H-50A, H-50B and H-50C)</u>		
30	278 368 R61	HEAD ASSY., cylinder 1137 to 3623 (Composed of -
		1 BUSHING 142 765
		12 GUIDE 278 300 R1
		§ 1 HEAD
		1 PLUG 444 588
		5 PLUG 601 244 C1
		11 PLUG 9 409 949
		§ 6 SLEEVE
		10 STUD 303 473 R1)
30	323 771 R31	HEAD ASSY., cylinder 3624 and up (Composed of -
		1 BUSHING 142 765
		12 GUIDE 278 300 R1
		§ 1 HEAD
		1 PLUG 444 588
		11 PLUG 9 409 949
		5 PLUG 601 244 C1
		§ 6 SLEEVE
		10 STUD 303 473 R1)

(D-236 for 3816)

30	323 770 R41	HEAD ASSY., cylinder (Composed of -
		1 BUSHING 142 765
		12 GUIDE 278 300 R1
		§ 1 HEAD
		1 PLUG 444 588
		5 PLUG 601 244 C1
		11 PLUG 9 409 949
		§ 1 SLEEVE
		10 STUD 303 473 R1)

(D-282 for 2656, 2706, 3600A, 3800 and 3850)

30	373 771 R31	HEAD ASSY., cylinder (Composed of -
		1 BUSHING 142 765
		12 GUIDE 278 300 R1
		§ 1 HEAD
		1 PLUG 444 588
		5 PLUG 601 244 C1
		11 PLUG 9 409 949
		§ 6 SLEEVE
		10 STUD 303 473 R1)

§ - Not Furnished Separately.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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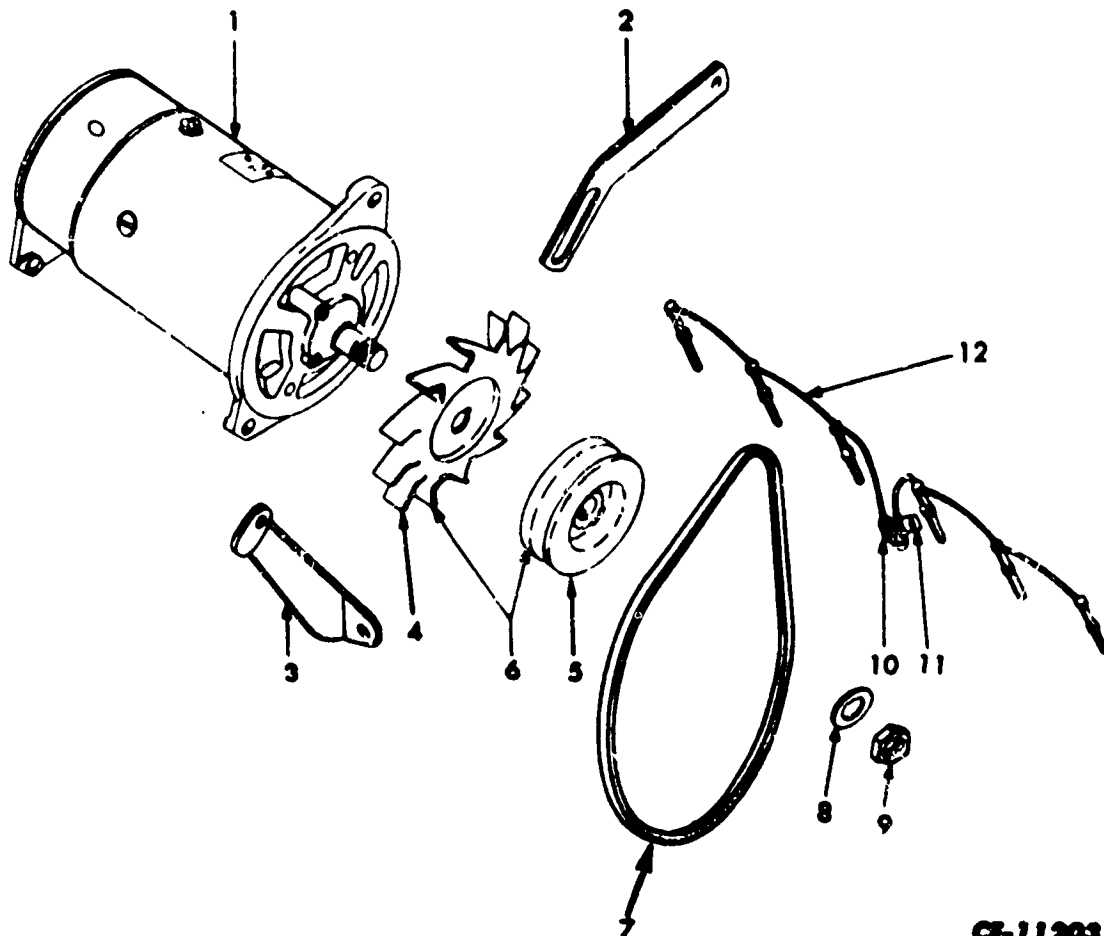
GENERATOR, CRANKING MOTOR AND RELATED PARTS

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898

(D-236 for 3616) - 501 and up

(D-282 for H-50A, H-50B and H-50C) - 1137 to 15347

(D-282 for 2706) - 501 and up



CE-112031

1		GENERATOR ASSY. (Refer to "Generator") (*) NUT SCREW, 1-1/8" long hex-hd cap SCREW, 1-1/2" long hex-hd cap WASHER, lock (2) WASHER, generator mounting bolt	2	274 191 R2	BRACE, generator (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 3262 to 9898 (D-282 for H-50A, H-50B and H-50C) - 4157 to 15347 179 817 SCREW, 7/8" long hex-hd cap 179 859 SCREW, 1-1/8" long hex-hd cap 103 322 WASHER, 7/16" lock 103 320 WASHER, 5/16" lock 280 186 R1 WASHER, flat
2	304 016 R1	BRACE, generator (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 3261 (D-236 for 3616) - 501 and up (D-282 for H-50A, H-50B and H-50C) - 1137 to 4158 (D-282 for 2706) - 501 and up	3		(See Individual Engine Variation)
			4		(See Individual Engine Variation)
			5		(See Individual Engine Variation)
			6		(See Individual Engine Variation)

(*) - D-236 for 3616 and D-282 for 2706, refer to Chassis Catalog.

REF. NO.	PART NUMBER	DESCRIPTION
GENERATOR, CRANKING MOTOR AND RELATED PARTS - Continued		
(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898		
(D-236 for 361F) - 501 and up		
(D-282 for H-50A, H-50B and H-50C) - 1137 to 15347		
(D-282 for 2706) - 501 and up		
7		(See Individual Engine Variation)
8		WASHER, drive pulley lock (Refer to "Generator") (*)
9		NUT, drive pulley (Refer to "Generator") (*)
10	42 915 D	BLOCK, junction
	120 614	NUT
	110 500	SCREW, slt-rd-hd mach
	120 217	WASHER, lock
	26 272 R1	WASHER, hardened
	263 515 R91	CLIP, cable
11	304 313 R1	BRACKET, junction block mounting
12	319 965 R91	HARNESs, glow plug cable (2)
	362 120 R1	CLIP, cable harness (D-236 for 361F)
		MOTOR ASSY., cranking (Refer to "Cranking Motor") (*)
	103 026	NUT (3)
	103 321	WASHER, lock (3)
	308 489 R2	SPACER, cranking motor
	57 715 D	STUD, cranking motor (3)

ENGINE VARIATIONS

(D-236 for H-30A, H-30C, H-30B-F and H-30B-R)
(D-282 for H-50A and H-50B)

3	308 442 R1	BRACKET, generator rear mounting (All models except H-50B w/High Mounted Fan)
3	308 657 R1	BRACKET, generator rear mounting (For H-50B w/High Mounted Fan)
	179 818	SCREW, hex-hd cap (2)
	103 320	WASHER, lock (2)
	280 185 R1	WASHER, flat
6		PULLEY and FAN ASSY., generator (Delco-Remy No. 1 943 516)
7	304 436 R1	BELT, fan water pump and generator (H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898 (H-50A and H-50B w/o High Mounted Fan) - 1137 to 15347

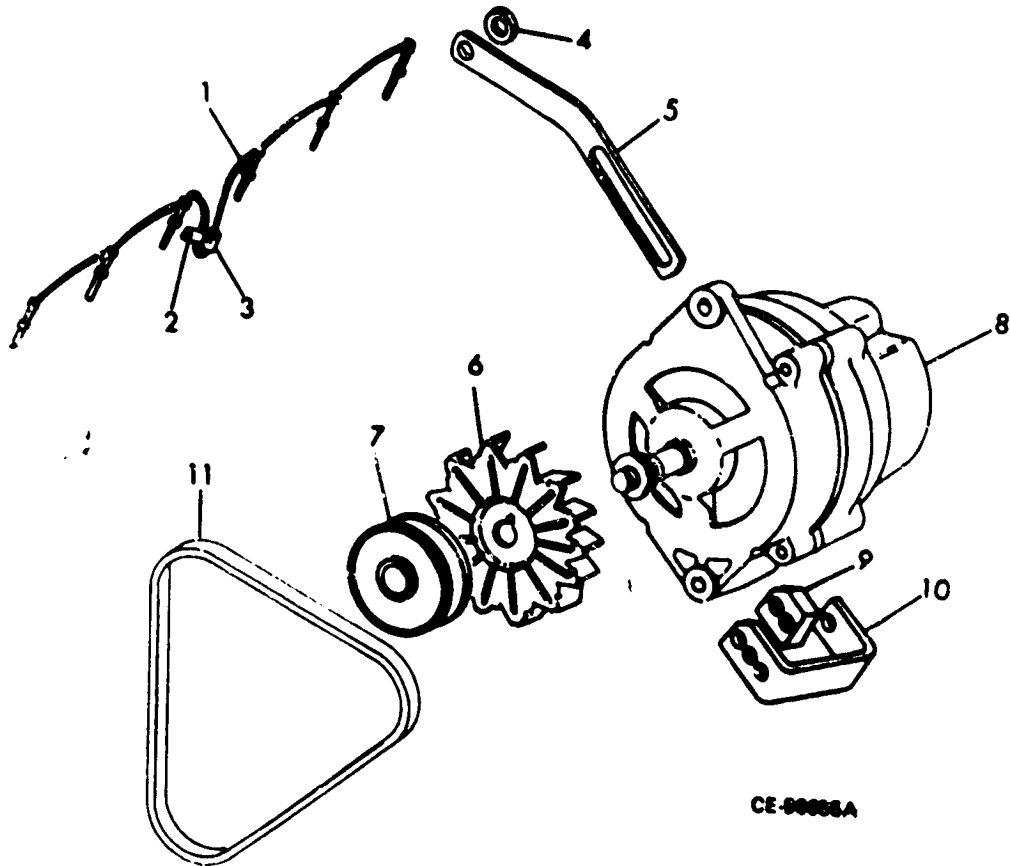
(*) - D-236 for 361F and D-282 for 2706, refer to Chassis Catalog.

REF. NO.	PART NUMBER	DESCRIPTION
7	601 379 C1	BELT, water pump and generator (H-50B w/High Mounted Fan) 1137 to 15347
(D-282 for H-50C)		
3	308 442 R1	BRACKET, generator rear mounting
	179 818	SCREW, hex-hd cap (2)
	103 320	WASHER, lock (2)
	280 185 R1	WASHER, flat
4		FAN, generator (Delco-Remy No. 1 944 437)
5		PULLEY, generator (Delco-Remy No. 1 946 716)
7	612 089 C1	BELT, fan, water pump and generator
(D-236 for 361F) (D-282 for 2706)		
3	304 017 R1	BRACKET, generator rear mounting
	179 818	SCREW, hex-hd cap (2)
	103 320	WASHER, med. lock (2)
6		PULLEY and FAN ASSY. (Refer to Chassis Catalog)
7		BELT, water pump and generator (Refer to Chassis Catalog)

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ALTERNATOR, CRANKING MOTOR AND RELATED PARTS

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 9899 and up
 (D-282 for H-50A, H-50B and H-50C) - 15348 and up
 (D-282 for 2656, 3600A, 3800 and 3850) - 501 and up



CE-9988A

1	319 965 R91	HARNESSES, glow plug cable (2)	9	384 996 R1	SPACER, alternator bracket (*)
2	304 313 R1	BRACKET, junction block mounting	10	384 965 R1	BRACKET, alternator (*)
3	42 915 D	BLOCK, junction		26 750 R1	SCREW, 5/16" dia. hex-hd cap
	120 614	NUT		24 842 R1	SCREW, 3/8" dia. hex-hd cap
	110 500	SCREW, alt-rd-hd mech		27 326 R1	WASHER, 5/16" hardened
	120 217	WASHER, lock		25 896 R1	WASHER, 3/8" hardened
	26 272 R1	WASHER, hardened	11		(See Individual Engine Variation)
4	280 185 R1	SPACER, brace (*)			MOTOR ASSY., cranking (Refer to "Cranking Motor") (*)
	24 849 R1	SCREW, hex-hd cap		25 523 R1	NUT (3)
	26 272 R1	WASHER, hardened		25 896 R1	WASHER, hardened (3)
5		(Individual Engine Variation)		308 489 R2	SPACER, cranking motor
6	221 425 P1	(*)		57 715 D	STUD, cranking motor (3)
7	384 986 R1	PULLEY, cranking motor (*)			
8		ALTERNATOR ASSY. (Refer to "Alternator") (*)			
	275 804 R1	SCREW, hex-hd cap			
	25 896 R1	WASHER, hardened			
	25 522 R1	NUT			
	263 515 R91	CLIP, cable			

(*) - D-282 for 2656, 3600A, 3800 and 3850, refer to Chassis Catalog.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ALTERNATOR, CRANKING MOTOR AND RELATED PARTS - Continued
 (D-238 for H-30A, H-30B, (H-30B-F and H-30B-R) - 9699 & up
 (D-282 for H-50A, H-50B and H-50C) - 15348 and up
 (D-282 for 3656, 3600A, 3600 and 3850) - 501 and up

ENGINE VARIATIONS

(All Models except 2656)

5	384 997 R1	BRACE, alternator SCREW, hex-hd cap (D-238 for H-30A, H-30B, H-30B-F and H-30B-R) - 9699 and up (D-282 for H-50A, H-50B and H-50C) - 15348 and up
	27 326 R1	WASHER, hardened (D-238 for H-30A, H-30B, H-30B-F and H-30B-R) - 9699 and up (D-282 for H-50A, H-50B and H-50C) - 15348 and up
	26 272 R1	WASHER, hardened (For D-282 for 3600A, 3600 and 3850)
	26 524 R1	NUT, hex (For D-282 for 3600A, 3600 and 3850)

11	670 261 C1	BELT, fan, water pump and alternator (D-238 for H-30B, H-30B-F and H-30B-R) - 9699 and up (D-282 for H-50C) - 15348 and up
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11		BELT, fan, water pump and alternator (Refer to Chassis Catalog) (For D-282 for 3600A, 3600 and 3850)
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	263 514 R91	CLIP, cable (D-282 for 3600A)
	26 272 R1	WASHER, plain

	366 460 R1	CLIP, cable (D-282 for 3600 and 3850)
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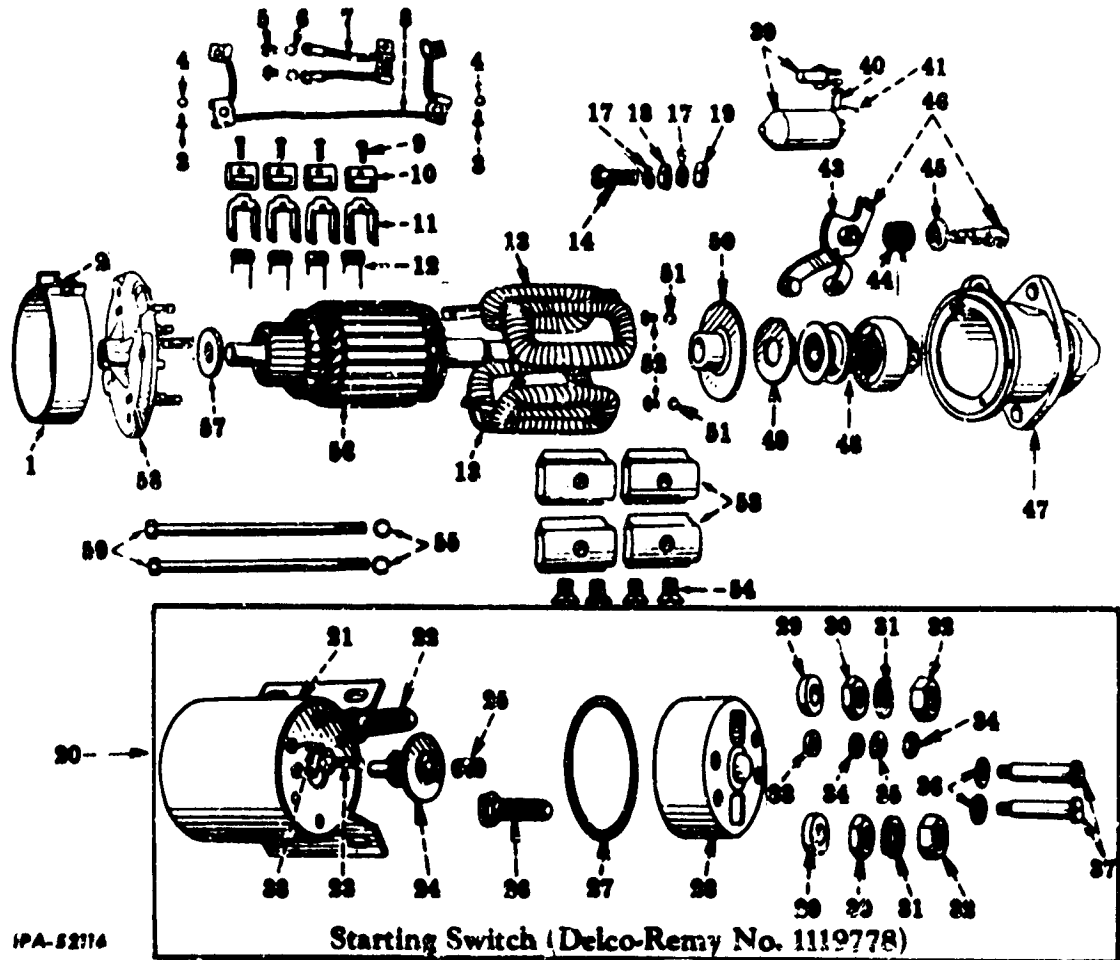
(D-282 for 2656)

5	387 176 R1	BRACE, alternator
	271 500	NUT, hex
	103 322	WASHER, lock

11		BELT, fan, water pump and alternator (Refer to Chassis Catalog)
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REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CRANKING MOTOR
 (Delco-Remy)
 (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 2864
 (D-282 for H-50A, H-50B and H-50C) 1137 to 3661 (*)



IPA-52114

Starting Switch (Delco-Remy No. 1119778)

ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

1	1 880 355	BAND w/SCREW, 132 926, cover	8	1 931 777	LEAD, brush jumper
2	453 479	SCREW, cover band	9	171 734	SCREW, brush attaching (4)
3	453 483	SCREW, brush lead to field coil attaching (2)	10	1 908 987	BRUSH (4)
4	453 435	WASHER, brush lead attaching screw lock (2)	11	1 931 773	HOLDER, brush (4)
5	453 464	SCREW, ground lead attaching (2)	12	1 935 316	SPRING, brush (4)
6	453 435	WASHER, brush ground lead attaching screw (2)	13	1 931 788	COIL, field (Upper and lower) (Consists of four coils)
7	1 931 771	LEAD, brush ground (2)	14	1 933 879	STUD, terminal

(*) - D-236 for 3616 and D-282 for 2666, 2706, 3800A, 3800 and 3850, refer to Chassis Catalog.
 Always give **CRANKING MOTOR NUMBER** when ordering parts.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKING MOTOR - Continued (Delco-Remy) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 2854 (D-282 for H-50A, H-50B and H-50C) - 1137 to 3661 (*)			37	453 468	SCREW, cover attaching (2)
			38	1 928 958	CLIP, terminal (No. 8 terminal stud)
			39	1 932 079	PLUNGER and LINK
17	120 381	WASHER, terminal stud lock (2)	40	1 853 305	PIN, shift lever
18	806 258	NUT, terminal stud (5/32" thick)	41	112 728	PIN, shift lever cotter
19	134 566	NUT, terminal stud (1/4" thick)	43	1 931 776	LEVER, shift
20	1 119 778	SWITCH ASSEMBLY, starting solenoid (Composed of -	44	1 922 876	SPRING, shift lever
		1 CASE AND COIL 1 931 813	45	1 915 668	RING, lever shaft retainer (Small end)
		1 CLIP 1 928 958	46	1 931 807	LEVER and SHAFT
		1 CONTACT and ROD 1 912 059	47	1 961 656	HOUSING w/BUSHING, 1 931 783, PLUG, 453 465, and WICK, 1 909 560, drive
		1 COVER 1 931 818			
		1 GASKET 1 930 629	48	1 941 157	DRIVE ASSEMBLY, motor (Composed of -
		2 NUT 120 622			1 BUSHING 37 535
		2 NUT 134 566			1 COLLAR 1 904 443
		2 NUT 806 258			1 LOCKWIRE 1 904 436
		2 SCREW 132 903			1 SPRING 1 932 354)
		1 SPRING 1 853 342	49	821 453	WASHER, brake (Between center bearing and motor drive)
		1 STUD 1 837 533			
		1 STUD 1 927 344	50	1 931 808	PLATE w/BUSHING, 820 148, center bearing
		1 STUD 1 931 814	51	1 962 276	WASHER, center bearing attaching screw lock (2)
		2 WASHER 120 381			
		2 WASHER 1 923 935	52	453 463	SCREW, center bearing attaching (2)
		1 WASHER 1 928 969	53	1 931 784	SHOE, pole (4)
		2 WASHER 1 927 345	54	1 913 960	SCREW, pole shoe (4)
		1 WASHER 1 904 615)	55	9 421 424	WASHER, thru bolt lock (2)
21	1 931 813	CASE and COIL	56	1 931 797	ARMATURE
22	1 928 967	STUD, 3/8 x 1-5/8" terminal	57	1 914 842	WASHER, space (Commutator end)
23	1 960 089	STUD, No. 8 terminal	58	1 937 181	FRAME and PIN ASSEMBLY (Commutator end) (Composed of -
24	1 952 563	CONTACT and ROD, push			1 BUSHING 1 872 678
25	1 853 342	SPRING, contact return			2 PIN 812 015
26	1 960 244	STUD, 3/8 x 1-3/16" terminal			1 PIN 809 062
27	1 930 629	GASKET, cover			2 PIN 812 016
28	1 931 818	COVER			2 PIN 817 313
29		NOT USED			2 PIN 817 314
30	806 258	NUT, 3/8" terminal stud (2)			1 PLUG 810 819
31	120 381	WASHER, lock (3/8" terminal stud) (2)			1 PLUG 453 465
32	134 566	NUT, 3/8" terminal stud (2)			1 WICK 1 916 439)
33		NOT USED			
34	120 622	NUT (No. 8 terminal stud) (2)	(*) - D-236 for 3616 and D-282 for 2856, 2706, 3600A, 3600 and 3650, refer to Chassis Catalog.		
35	1 948 143	WASHER, No. 8 terminal stud lock	Always give CRANKING MOTOR NUMBER when ordering parts.		
36	1 923 935	WASHER, cover attaching screw (2)			

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CRANKING MOTOR - Continued

(Delco-Remy)

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 2854

(D-282 for H-50A, H-50B and H-50C) - 1137 to 3681 (*)

59	809 763	BOLT, thru (2)			
	1 872 678	BUSHING (Commutator end)			
	1 931 783	BUSHING, terminal stud insulating			
	820 148	BUSHING, center bearing			
	1 931 783	BUSHING (Drive end)			
	1 935 435	CONNECTOR, terminal to switch			
	1 914 873	INSULATION, field coil (2)			
	1 927 033	LINK, shift lever spacer			
	809 593	PIN, dowel (Drive end)			
	817 313	PIN, brush hinge (2)			
	812 016	PIN, brush holder hinge and insulator (2)			
	817 314	PIN, brush holder stop (2)			
	812 015	PIN, brush holder stop and insulator (2)			
	808 062	PIN, dowel (Commutator end) (2)			
	453 465	PLUG, pipe (Commutator and drive end) (2)			
	810 819	PLUG, end			
	1 915 897	RING, lever shaft retainer (Large end)			
	1 928 022	RING, pinion stop retainer (Drive end)			
	1 916 529	SCREW, solenoid starting switch attaching (4)			
	453 435	SCREW, link attaching			
	820 155	WASHER, space (Between center bearing and armature)			
	453 339	WASHER, link attaching lock			
	1 950 029	WASHER, terminal stud (Outside)			
	1 857 268	WASHER, insulating terminal stud			
	1 916 439	WICK (Commutator end and drive end) (2)			

(*) - D-236 for 3616 and D-282 for 2856, 27C6, 3600A, 3800 and 3850, refer to Chassis Catalog.

Always give CRANKING MOTOR NUMBER when ordering parts.

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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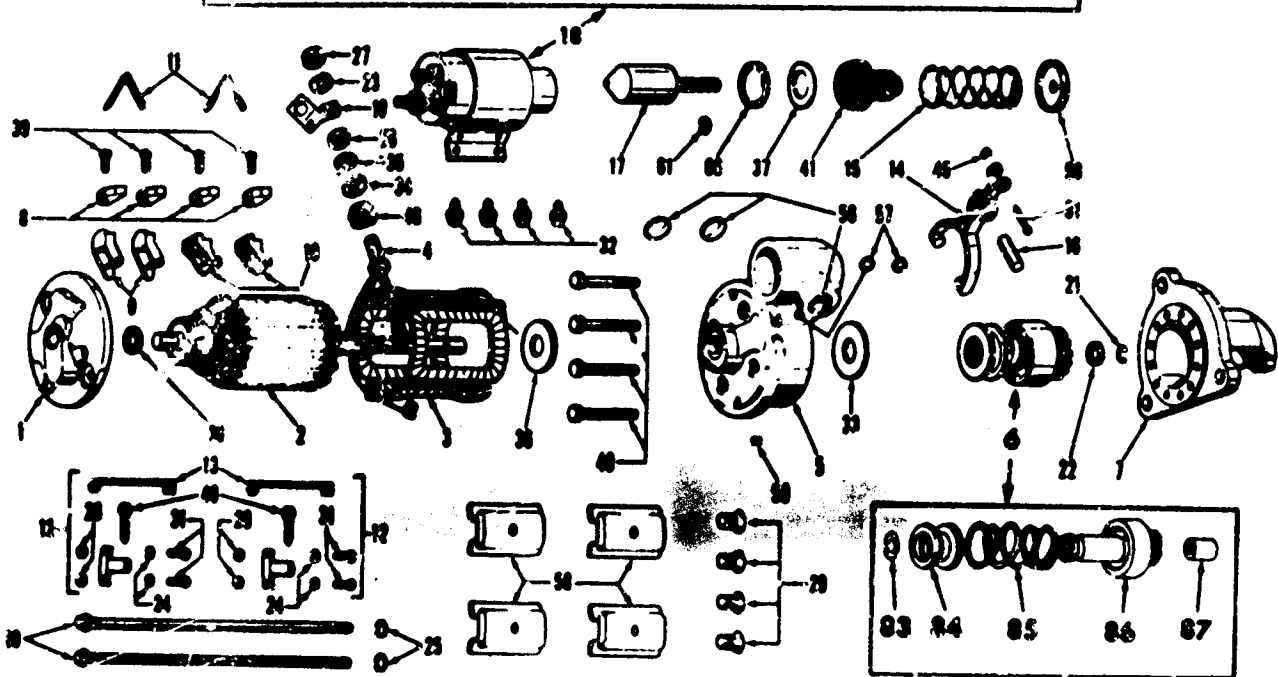
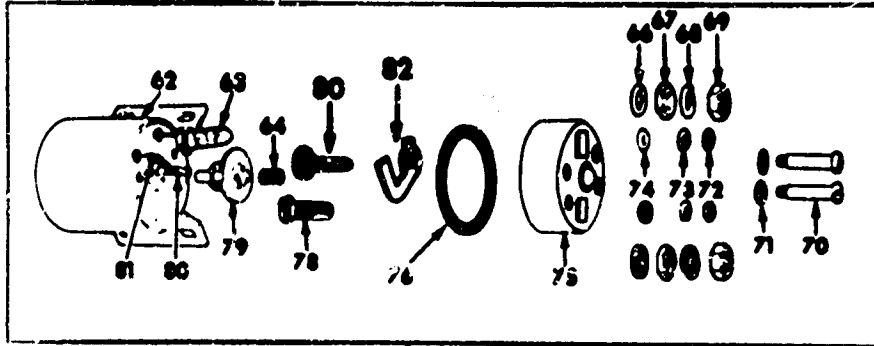
CRANKING MOTOR

(Delco-Remy)

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 2855

and up

(D-282 for H-50A, H-50B and H-50C) - 3662 and up (*)



IPA-66674-C

ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

1	1 113 850	CRANKING MOTOR ASSY.	5	1 942 241	HOUSING ASSY., lever
	179 885	SCREW, hex-hd cap (3)			(Composed of -
	103 323	WASHER, lock (3)			1 BUSHING 1 933 999
		(Consists of the following parts -			2 PLUG 9 411 375
1	1 945 617	FRAME w/BUSHING, 1 872 678,			1 PLUG 1 961 573)
		PLUG, 125 947, and WICK ASSY.,	6	1 877 355	DRIVE, motor
		1 909 654, commutator end	7	1 949 406	HOUSING w/BUSHING, 1 955 994,
2	1 967 045	ARMATURE			PLUG, 9 427 882 and WICK
3	1 946 386	COIL, field w/STUD ASSY.,			ASSY., 1 916 439, drive
		1 945 626 (Four coils)			
4	1 945 626	STUD, terminal			

(*) - D-236 for 3618 and D-282 for 2656, 2706, 3600A and 3800 and 3850, refer to Chassis Catalog.

Always give CRANKING MOTOR NUMBER when ordering parts.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKING MOTOR - Continued (Delco-Remy) (D-238 for H-30A, H-30B, H-30B-F and H-30B-R) - 2855 and up (D-282 for H-50A, H-50B and H-50C) - 3802 and up (*)			31	445 636	SCREW (2)
			32	1 917 084	SCREW, switch attaching (4)
			33	821 453	WASHER, brake (Between lever housing and motor drive)
8	1 908 987	BRUSH (4)	34	1 950 029	WASHER, insulating terminal stud
9	1 950 477	HOLDER, brush ground (2)	35	805 720	WASHER, terminal stud plain
10	1 950 546	HOLDER, brush insulated (2)	36	1 981 720	WASHER, spacer (Between insulating terminal stud and brush holder)
			37	1 942 259	WASHER, rubber spring
			38	1 914 842	WASHER, commutator end space
			40	1 962 546	SCREW, drive housing attaching (4)
			41	801 077	BOOT
			45	1 938 376	RING, lever attaching pin snap
			46	1 931 783	BUSHING, insulating terminal stud
			49	1 938 068	PIN, brush holder
			50	809 593	PIN, drive housing dowel
			51	1 942 253	PIN, lever attaching
			56	9 411 375	PLUG, lever housing expansion (1-3/16" dia.) (2)
			57	1 948 694	PLUG, lever housing expansion (5/8" dia.)
			58	1 934 478	SHOE, pole (4)
			59	1 948 526	RETAINER, spring (13/32" hole)
			60	1 948 520	RETAINER, spring (1-13/64" hole)
			61	9 415 235	RING, spring retainer snap
			62		CASE and COIL (Not furnished separately)
			63	1 956 427	STUD, motor terminal
13	1 930 694	LEAD, ground			
14	1 942 245	LEVER, shift			
15	1 948 521	SPRING, lever			
16	1 942 255	SHAFT, lever			
17	1 942 250	PLUNGER			
18	1 115 510	SWITCH ASSY., solenoid starting			
19	1 946 394	CONNECTOR, switch			
20	1 883 865	BOLT, thru (2)			
21	1 928 022	RING, pinion stop retainer			
22	1 928 021	COLLAR, pinion stop			
23	9 421 426	WASHER, terminal stud lock			
24	453 435	WASHER, lock (2)			
25	9 421 424	WASHER, thru bolt lock (2)			
26		NOT USED			
27	805 258	NUT, terminal stud (7/32" thick)			
28	120 381	NUT (2)			
29	1 913 960	SCREW, pole shoe (4)			
30	1 959 514	SCREW w/lock WASHER, brush attaching (4)			

(*) - D-238 for 3816 and D-282 for 285J, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

Always give CRANKING MOTOR NUMBER when ordering parts.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKING MOTOR - Continued (Delco-Remy) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 2656 and up (D-282 for H-50A, H-50B and H-50C) - 3882 and up (*)			1 916 439	WICK, commutator end oil	
			1 947 350	WICK, oil lever housing	
			1 916 439	WICK, drive end oil	
64	1 853 342	SPRING, contact return	1 872 678	BUSHING, commutator end	
65	1 950 064	WASHER, terminal stud (2)	1 955 994	BUSHING, drive end	
67		NOT USED	1 803 999	BUSHING, lever housing	
68	9 421 425	WASHER, 3/8" terminal lock (2)			
69	134 556	NUT, 3/8" terminal (2)			
70	1 943 225	SCREW, cover attaching (2)			
71	1 923 935	WASHER, cover attaching screw (2)			
72	453 996	NUT, No. 8 hex. terminal (2)			
73	1 948 143	WASHER, No. 8 terminal lock (2)			
74	1 950 071	WASHER, No. 8-32 terminal (2)			
75	1 935 624	COVER			
76	1 965 625	GASKET, cover			
78	800 487	STUD, battery terminal			
79	1 917 119	CONTACT and ROD			
80	1 960 248	STUD, terminal switch			
81	1 958 278	CLIP, terminal			
82	1 935 645	BLADE, contact			
83	1 904 436	LOCK WIRE			
84		NOT USED			
85	1 941 127	SPRING, motor drive			
86		GEAR and SHAFT (Not furnished separately)			
87	37 535	BUSHING			
	1 914 873	INSULATION, field coil			
	1 948 612	GASKET, between lever housing and drive housing			
	9 427 882	PLUG, commutator end pipe			

(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3600 and 3850, refer to Chassis Catalog.

Always give CRANKING MOTOR NUMBER when ordering parts.

ELECTRICAL

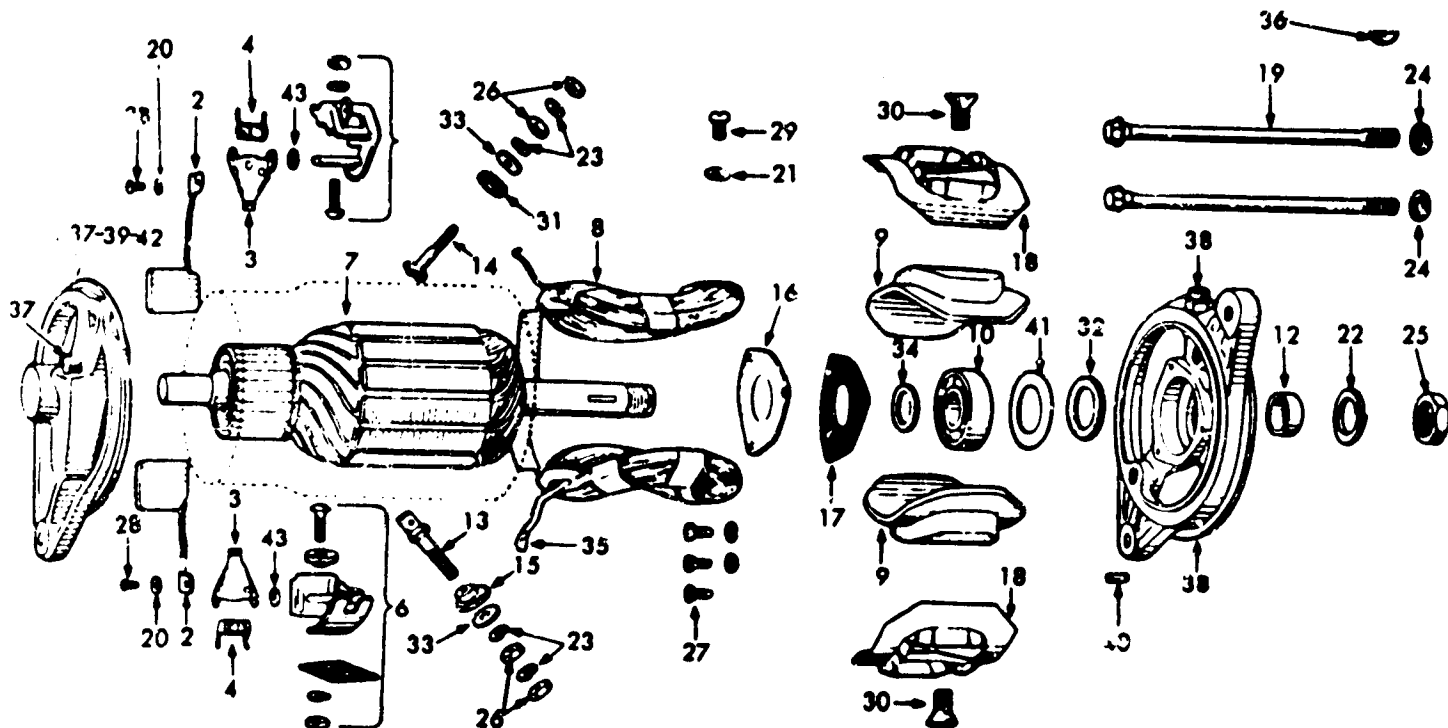
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GENERATOR

(Delco-Remy)

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898

(D-282 for H-50A, H-50B w/o High Mounted Fan and H-50C) - 1137 to 15347 (*)



CE-112083

ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

1	1 102 337	GENERATOR ASSY. (Will work for GENERATOR, 1 102 188) (Consists of the following parts -	12	1 858 603	COLLAR, drive end space
			13	1 923 284	STUD, terminal "A"
1	1 951 512	FRAME w/OILER, 125 609, PIN, 809 062 and WICK, 823 551, commutator end	14	1 858 749	STUD, terminal "F"
2	1 932 508	BRUSH (2)	15	1 921 362	BUSHING, insulating terminal "A"
3	1 944 373	ARM, brush (2)	16	1 911 283	PLATE, drive end retainer
4	1 916 324	SPRING, brush (2)	17	1 912 008	GASKET, bearing retainer
5	1 925 378	PACKAGE, ground brush holder	18	1 912 073	INSULATOR, field coil
6	1 925 379	PACKAGE, insulating brush holder	19	809 763	BOLT, thru (2)
7	1 963 977	ARMATURE	20	456 413	WASHER, brush lead screw (2)
8	1 922 701	COIL, field	21	9 421 423	WASHER, field frame screw
9	1 939 902	SHOE, pole (2)	22	1 915 265	WASHER, drive end shaft nut
10	907 503	BALL BEARING, drive end	23	1 914 579	WASHER, terminal stud (4)
11	1 953 282	FRAME w/OILER, 1 880 641, drive end			

(*) - D-236 for 3816 and D-282 for 2656, 2706, 3800A, 3800 and 3850, refer to Chassis Catalog.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GENERATOR - Continued					
(Delco-Remy)					
(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898					
(D-262 for H-50A, H-50B w/o High Mounted Fan and H-50C) - 1137 to 15347 (*)					
24	9 421 424	WASHER, bolt thru (2)			
25	1 915 172	NUT, drive end shaft			
26	121 743	NUT, terminal (4)			
27	1 914 580	SCREW, ball bearing retainer plate (3)			
28	454 458	SCREW, brush lead attaching (2)			
29	225 577	SCREW, field frame			
30	1 913 960	SCREW, pole shoe (2)			
31	1 858 753	WASHER, insulating field terminal stud			
32	809 961	WASHER, drive end felt			
33	826 319	WASHER, plain terminal stud (2)			
34	809 945	WASHER, inside spacer (Drive end)			
35	200 382	CLIP, terminal to brush			
36	124 545	KEY, drive end			
37	125 609	OILER, commutator end			
38	1 880 641	OILER, drive end			
39	809 062	PIN, dowel commutator end			
40	809 593	PIN, dowel drive end			
41	819 104	PLATE, felt retainer drive end			
42	1 947 350	WICK, oil commutator end			
	1 953 202	RETAINER, wick commutator end			
	1 929 959	RING, bearing commutator end			
	1 945 697	SEAL, oil commutator end			
	823 551	WICK, drive end			

(*) - D-236 for 3616 and D-262 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

ELECTRICAL

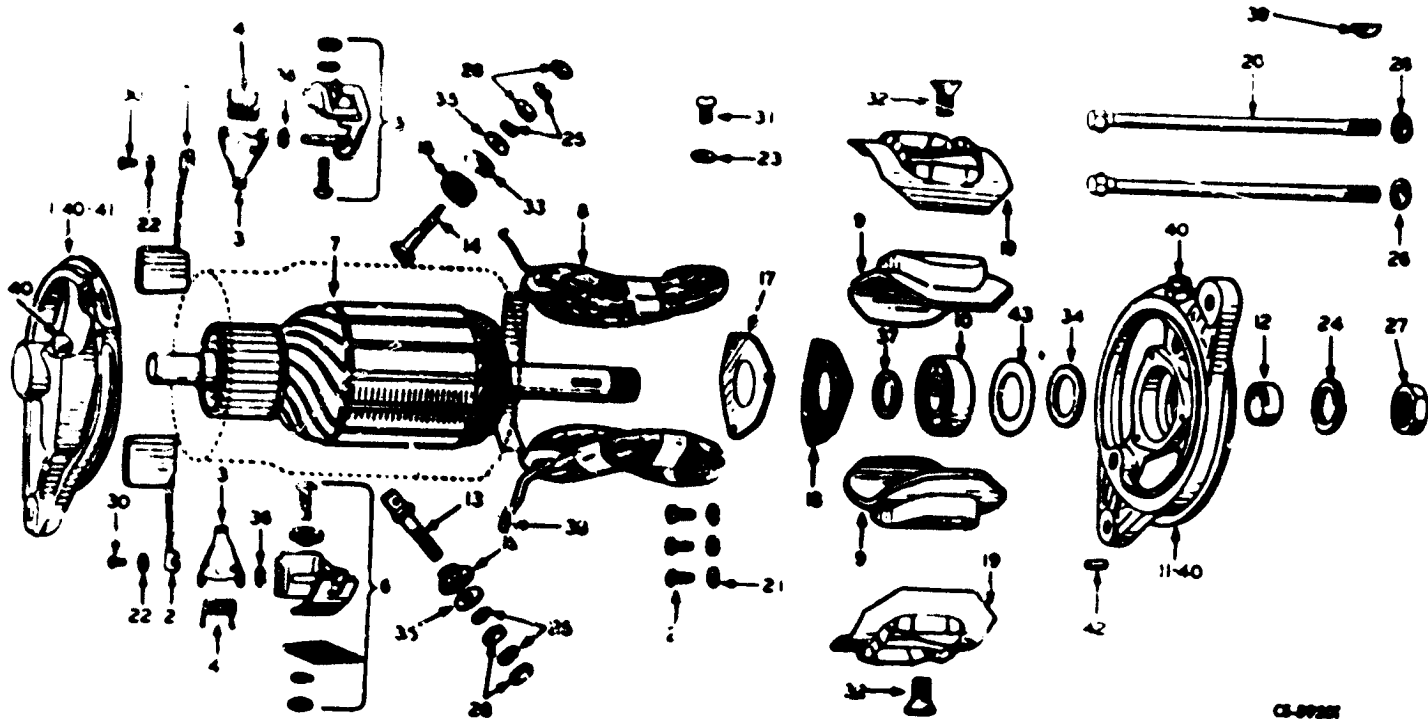
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GENERATOR

(Delco-Remy)

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 986A

(D-282 for H-50A, H-50B w/and w/o High Mounted Fan and H-50C) - 1137 to 15347 (*)



CS-8928

ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

Parts without letters after the description indicates the part is used for both Generators listed below.

		Parts without letters after the description indicates the part is used for both Generators listed below.			
A	1 102 188	GENERATOR ASSY. (Order GENERATOR, 1 102 337) (All Models except D-282 for H-50B w/High Mounted Fan)	8	1 922 701	COIL, field
			9	1 839 902	SHOE pole (2)
			10	907 503	BALL BEARING, drive end (A)
			10	964 378	BALL BEARING, drive end (B)
B	1 102 210	GENERATOR ASSY. (D-232 for H-50B w/High Mounted Fan) (Consists of the following parts -	11	1 963 882	FRAME, D.E.
			12	1 858 603	COLLAR, space, D.E.
1	1 963 880	FRAME, commutator end	13	1 923 284	STUD, "A" terminal
2	1 932 506	BRUSH (2)	14	1 858 749	STUD, "F" terminal
3	1 944 373	ARM, brush (2)	15	1 921 382	BUSHING, insulator "A" terminal
4	1 908 829	SPRING, brush (2)	16		NOT USED
5	1 925 378	HOLDER, ground brush (Package)	17	1 911 263	PLATE, retainer, D.E.
6	1 925 379	HOLDER, insulator brush (Package)	18	1 812 008	GASKET, bearing retainer
7	1 946 931	ARMATURE (A)			
7	1 950 357	ARMATURE (B)			

(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

ELECTRICAL

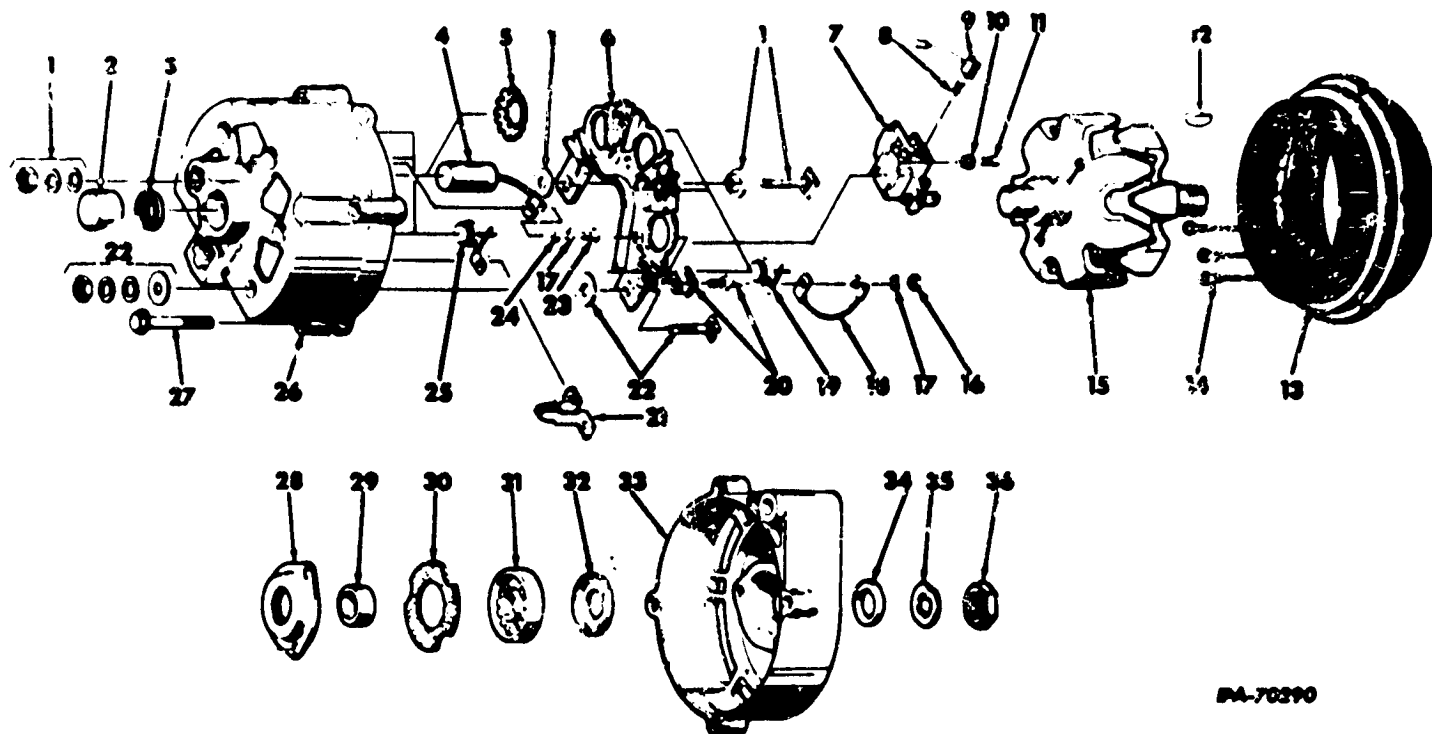
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GENERATOR - Continued (Delco-Remy) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898 (D-282 for H-50A, H-50B w/ and w/o High Mounted Fan and H-50C) 1137 to 15347 (*)			1 929 959	RING, bearing, C.E.	
			823 551	WICK, oil, C.E. and D.E.	
			815 042	WASHER, felt (Commutator end)	
			809 980	PLATE, felt retainer (Commutator end)	
19	1 912 073	INSULATOR, field coil (2)			
20	809 763	BOLT, thru (2)			
21		NOT USED			
22	1 914 816	WASHER, lock, brush lead screw (2)			
23	9 421 423	WASHER, lock, field frame screw			
24	1 915 265	WASHER, lock, shaft nut, D.E.			
25	1 914 579	WASHER, lock, terminal stud (4)			
26	9 421 424	WASHER, lock, thru bolt (2)			
27	1 915 172	NUT, shaft, D.E.			
28	121 743	NUT, terminal (4)			
29	1 914 580	SCREW, ball bearing retainer plate D.E. (3)			
30	453 460	SCREW, brush lead attaching (2)			
31	225 577	SCREW, field frame			
32	1 913 960	SCREW, pole shoe (2)			
33	1 858 753	WASHER, insulator field terminal stud			
34	809 961	WASHER, felt, D.E.			
35	828 319	WASHER, plain terminal stud (2)			
36	1 904 368	WASHER, space brush arm (2 for A)			
36	1 857 412	WASHER, space brush arm (2 for B)			
37	809 945	WASHER, space, inside, D.E.			
38	200 382	CLIP, terminal to brush			
39	124 545	KEY, Woodruff, D.E.			
40	125 609	OILER, C.E. and D.E. (2 for A)			
40	1 880 641	OILER, C.E. and D.E. (2 for B)			
41	809 062	PIN, dowel, C.E.			
42	809 593	PIN, dowel, D.E.			
43	819 104	PLATE, felt retainer, D.E.			

(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ALTERNATOR
 (Delco-Remy)
 (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 9899 & up
 (D-282 for H-50A, H-50B and H-50C) - 15348 and up (*)



PA-70390

ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

	1 100 791	ALTERNATOR ASSY. (Consists of the following parts -		14 1 959 532	CLIP, stat. r terminal (3)
1	1 959 833	TERMINAL, w/NUTS and WASHERS, ground	15	1 958 565	ROTOR ASSY.
2	7 451 763	BEARING, slip ring end roller	16	455 5 1	NUT, hex (3)
3	1 361 323	RETAINER w/FELT, slip ring end	17	9 419 362	WASHER, lock (4)
4	1 959 455	CAPACITOR	18		NOT USED
5	1 960 750	SPRING, condenser retaining	19	1 964 353	DIODE, positive (Package) (3)
6	1 959 828	HEAT SINK, w/positive DIODE	20	1 959 834	TERMINAL, diode junction (Package) (3)
7	1 964 682	HOLDER, brush	21		NOT USED
8	1 964 117	SPRING, brush (2)	22	1 959 832	TERMINAL, battery (Package)
9	1 964 682	BRUSH (Package)	23	132 768	SCREW, rd-hd No.
10	1 959 389	INSULATOR, brush holder screw (2)			
11	1 957 501	SCREW, brush holder attaching (2)			
12		NOT USED			
13	1 962 025	STATOR w/CLIPS			

(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

Always give ALTERNATOR NUMBER when ordering parts.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ALTERNATOR - Continued (Delco-Remy) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 9699 & up (D-282 for H-50A, H-50B and H-50C) - 15348 and up					
24	815 540	WASHER, condenser terminal screw			
25	1 964 354	DIODE, negative (Package) (3)			
26	1 969 329	FRAME, w/negative DIODE, BEARING, RETAINER and CONDENSER			
27	1 956 975	BOLT, thru (4)			
28	1 955 494	PLATE, drive end ball bearing retainer			
	1 965 104	SCREW, attaching			
29	1 963 130	COLLAR, drive end inside spacer			
30	1 912 008	GASKET, bearing retainer plate			
31	908 019	BEARING, drive end ball			
32	800 832	GREASE, slinger			
33	1 970 525	FRAME, drive end			
34	1 959 991	COLLAR, drive end outside spacer			
35	1 941 978	WASHER, drive end shaft			
36	1 915 172	NUT, drive end shaft			
	1 950 523	WASHER, insulating capacitor screw			
	9 419 392	WASHER, spring brush holder attaching screw			

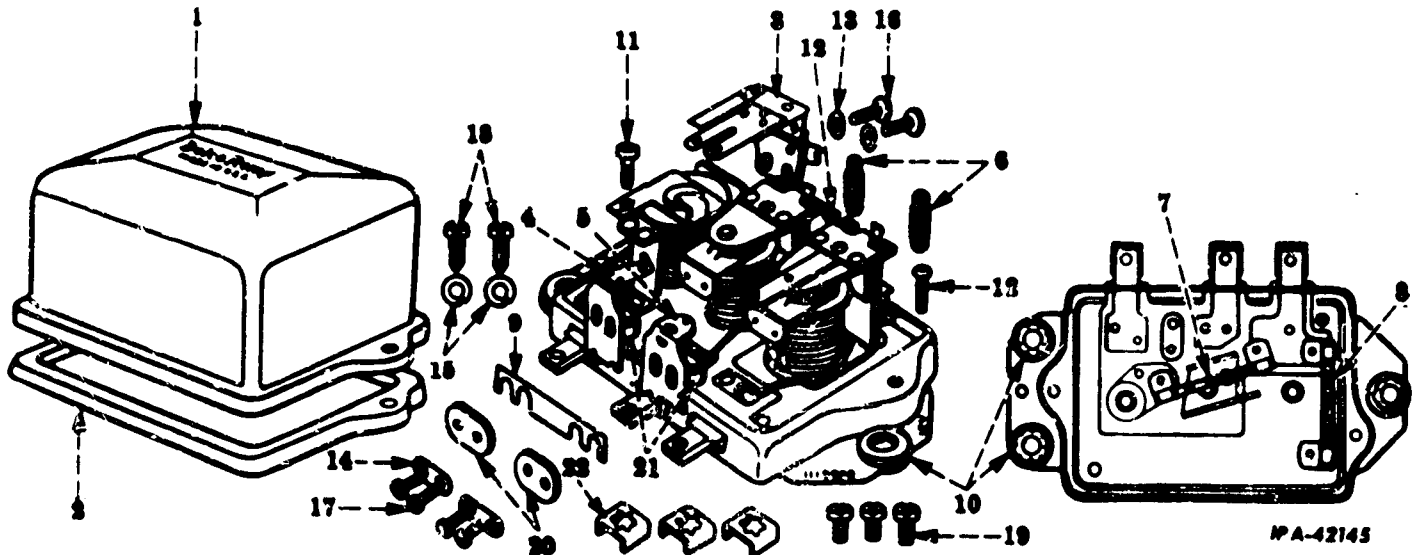
(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

Always give ALTERNATOR NUMBER when ordering parts.

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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VOLTAGE REGULATOR (Negative Ground)
 (Delco-Remy)
 (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898
 (D-282 for H-50A, H-50B and H-50C) - 1137 to 15347 (*)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

	1 119 003	REGULATOR ASSY., voltage (Negative ground) (Consists of the following parts -		16 1 924 764	SCREW and lock WASHER, armature attaching (2)
1		COVER (Not furnished separately)	17	1 878 516	SCREW, contact attaching (4)
2	1 931 887	GASKET, cover	18	1 943 386	SCREW, cover (2)
3	1 915 896	ARMATURE, relay	19	1 914 800	SCREW, terminal (3)
4	1 878 517	CONTACT, current regulator	20	1 922 599	WASHER, w/BUSHING, insulating (2)
5	1 933 239	CONTACT, voltage regulator	21	1 878 507	WASHER, insulating contact screw (2)
6	1 912 176	SPRING (2)	22	1 878 503	CLAMP, terminal (3)
7	1 910 174	RESISTOR (65 ohms)		1 855 978	CLAMP, ground screw
8	1 910 176	RESISTOR (130 ohms)		1 933 273	GROMMET and FERRULE ASSY., (Part of PACKAGE, 1 910 966) (3)
9	1 878 504	CONNECTOR		1 911 033	LEAD, ground (Part of PACKAGE, 1 910 966)
10	1 879 663	GROMMET		1 911 028	MOUNT, shock (3 hole) (Part of PACKAGE, 1 910 966)
11	1 912 158	SCREW, adjusting			
12	1 944 590	SCREW, adjusting (2)			
13	1 914 816	WASHER, relay screw lock (2)			
14	1 878 505	WASHER, contact screw lock (2)			
15	1 938 522	WASHER, cupped, cover screw (2)			
					(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.
					Always give VOLTAGE REGULATOR number when ordering parts.

ELECTRICAL

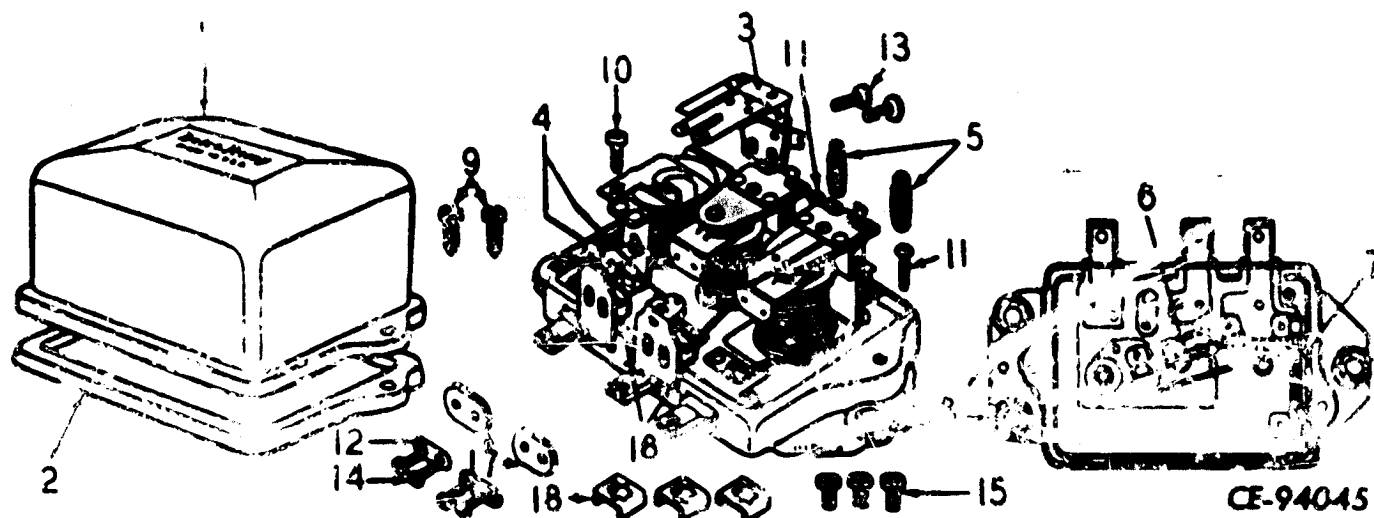
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
VOLTAGE REGULATOR - Continued (Negative Ground) (Delco-Remy) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 9898 (D-282 for H-50A, H-50B and H-50C) - 1137 to 15347 (*)					
1 911 034		MOUNT, shock (4 hole) (Part of PACKAGE, 1 910 966)			
124 818		NUT, shock mount attaching (Part of PACKAGE, 1 910 966) (3)			
273 484		SCREW, shock mount attaching (Part of PACKAGE, 1 910 966) (3)			
1 874 495		WASHER, shock mount attaching lock (Part of PACKAGE, 1 910 966) (3)			
1 910 966		PACKAGE, shock mount (Consists of -			
		3 GROMMET & FERRULE ASSY. 1 993 273			
		1 LEAD ASSY. 1 911 033			
		3 WASHER 1 874 495			
		3 NUT 124 818			
		3 SCREW 273 484			
		1 MOUNT, shock 1 911 028			
		1 MOUNT, shock 1 911 034			
274 577		SCREW, ground			

(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

Always give VOLTAGE REGULATOR number when ordering parts.

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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VOLTAGE REGULATOR
 (Positive Ground)
 (Delco-Remy)
 (D-282 for H-50A) - 1137 to 15347 (*)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

	1119 839	REGULATOR ASSY. (Positive ground) (Consists of the following parts)	10	1912 159	SCREW, adjusting
1		COVER (Not furnished separately)	11	1944 590	SCREW, adjusting (2)
2	1878 510	GASKET	12	1878 505	WASHER, lock, contact attaching (2)
3	1915 896	ARMATURE	13	1924 784	SCREW and LOCKWASHER, armature attaching (2)
4	1878 517	CONTACT, currents and voltage set	14	1878 516	SCREW, contact attaching (4)
5	1912 170	SPRING, regulator	15	1914 800	SCREW, terminal (3)
6	1910 174	RESISTOR, 65 ohms	16	1878 507	WASHER, insulator, contact attaching (2)
7	1910 176	RESISTOR, 120 ohms	17	1822 599	WASHER, insulator w/BUSHINGS contact attaching (2)
8	1879 663	GROMMET (3)	18	1878 503	CLAMP, terminal (3)
9	1878 499	SCREW, cover (2)		1878 504	CONNECTOR

(*) - D-236 for 3816 and D-282 for 2656, 2756, 3800A, 3800 and 3850, refer to Chassis Catalog.

Always give VOLTAGE REGULATOR NUMBER when ordering parts.

ELECTRICAL

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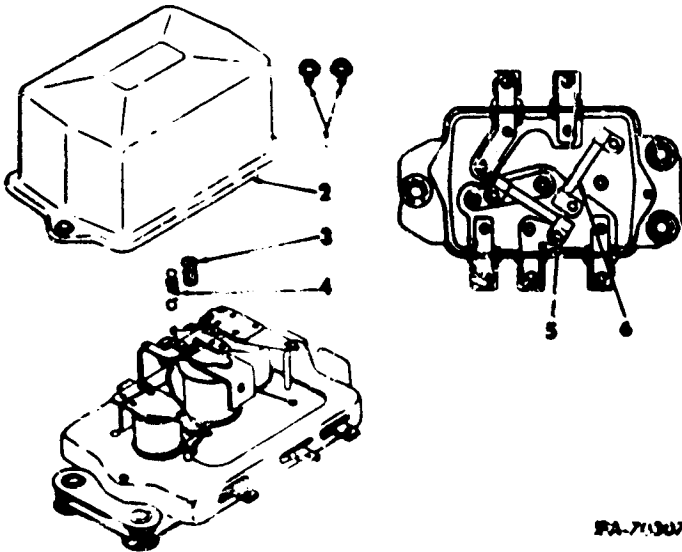
VOLTAGE REGULATOR

(Negative Ground)

(Delco-Remy)

(D-236 for H-30B) - 9899 and up (*)

(D-282 for H-50C) - 15,48 and up (*)



PA-71307

ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

1 119 513	REGULATOR ASSY. w/SHOCK BRACKET, voltage (Negative Ground)	(Composed of - 1 PACKAGE 1 962 629 1 REGULATOR 1 119 507 3 SCREW 454 669 3 WASHER 120 380) SCREW, 1/4 x 3/4" hex-hd cap (2) WASHER, 7/4" lock (2)
1 119 507	REGULATOR ASSY., voltage	(Consists of Ref. Nos. 1 thru 6) Also furnished as part of REGUL ATOR, 1 119 513)
1	1 943 386	SCREW, cover attaching (2)
2	1 958 151	COVER, regulator
3	1 958 148	SCREW, adjusting
4	1 958 137	SPRING, adjusting screw
5	1 941 431	RESISTOR
6	1 960 347	RESISTOR
	1 962 629	PACKAGE, shock bracket
	454 669	SCREW, terminal (3)
	120 380	WASHER, terminal screw lock (3)

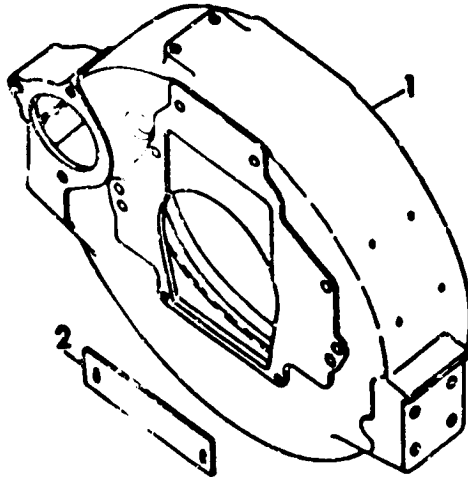
(*) - D-236 for 3616 and D-282 for 2656, 2706, 3600A, 3800 and 3850, refer to Chassis Catalog.

Always give VOLTAGE REGULATOR number when ordering parts.

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FLYWHEEL HOUSING

(D-236 for H-30A, H-30B, H-30B F and H-30B-R)
 (D-282 for H-50A, H-50B, H-50C, 3800 and 3850)



CE-110943

- | | | |
|---|------------|--|
| 1 | 304 440 R3 | HOUSING, flywheel (Together with
PLUG, 142 085, will work for
HOUSING, 612 059 C1) |
| | 278 790 R1 | SCREW, hex-hd cap (2) |
| | 114 508 | WASHER, hardened (2) |
| | 142 085 | PLUG, button |
| 2 | | (See Individual Engine Variation) |

ENGINE VARIATIONS

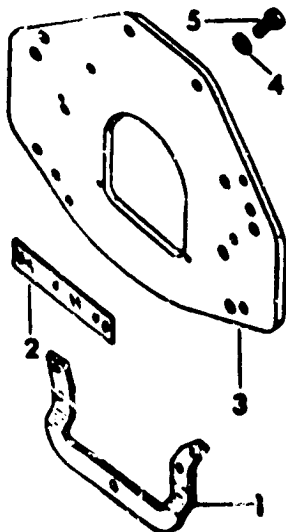
(D-274 for H-30A, H-30B, H-30B-F and H-30B-R)
(D-282 for H-50A, H-50B and H-50C)

- | | | |
|---|------------|--------------------------------|
| 2 | 367 225 R1 | SEAL, engine rear support dust |
| | 25 956 F | SCREW, hex-hd cap (2) |
| | 27 326 R | WASHER, hardened (2) |

ENGINE MOUNTING

REF. NO.	PART NUMBER	DESCRIPTION
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ENGINE SUPPORT
(D-236 for 3616)
(D-282 for 2656)



CI-112067

- | | |
|---|--|
| 1 | (See Individual Engine Variation) |
| 2 | 367 225 R1 SEAL, engine rear support dust
179 814 SCREW, hex-hd cap (2)
103 340 WASHER (2) |
| 3 | 367 223 R1 SUPPORT, engine rear |
| 4 | 345 409 R1 WASHER (4) |
| 5 | 179 883 BOLT, hex lock (4) |

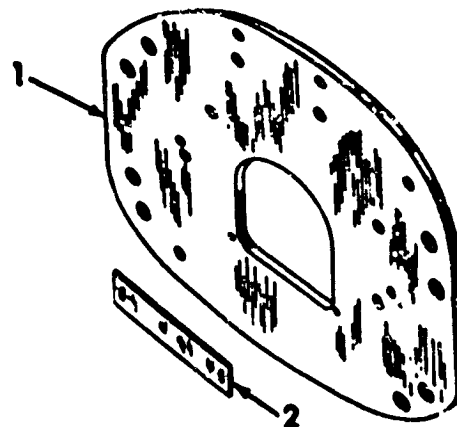
ENGINE VARIATIONS

(D-236 for 3616)

- | | |
|---|---|
| 1 | 389 921 R1 SUPPORT, engine front
271 570 SCREW, hex-hd cap (4)
102 639 NUT, hex (4) |
|---|---|

REF. NO.	PART NUMBER	DESCRIPTION
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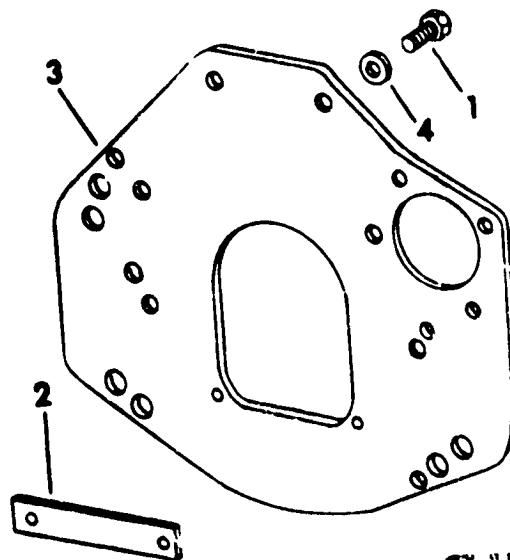
ENGINE SUPPORT
(D-282 for 2708)



CI-110965

- | | |
|---|--|
| 1 | 367 224 R2 SUPPC:RT, rear engine
179 883 BOLT, hex-hd cap (6)
345 409 R1 WASHER, flat (6) |
| 2 | 367 225 R1 SEAL, engine rear support dust
179 814 SCREW, hex-hd cap (2)
103 340 WASHER, flat (2) |

ENGINE SUPPORT
(D-282 for 3600A)



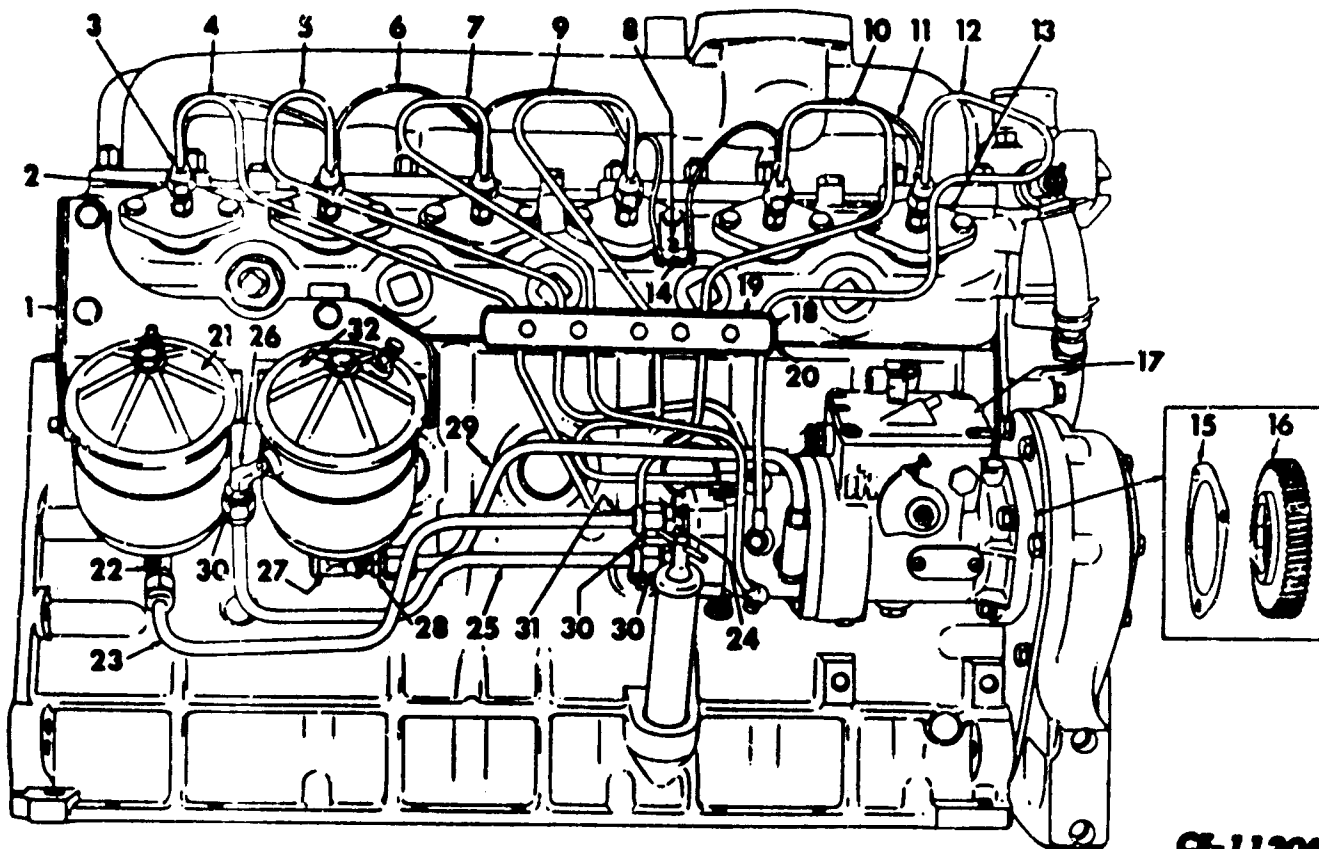
CI-110964

- | | |
|---|---|
| 1 | 179 883 BOLT, lock (6) |
| 2 | 367 225 R1 SEAL, engine rear support dust
179 814 BOLT, hex-hd cap (2)
103 340 WASHER (2) |
| 3 | 533 328 R1 SUPPORT, rear engine |
| 4 | 345 409 R1 WASHER (6) |

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FUEL INJECTION PUMP AND CONNECTIONS (D-282 for 2708 w/International R.D. Pump) (*)



1	278 318 R1 179 858 103 322	BRACKET, fuel filter SCREW, hex-hd cap (3) WASHER, med. lock (3)	14	42 915 D 103 088 100 764 106 497	BLOCK, junction NUT, hex SCREW, slit-rd-hd mach WASHER, med. lock
2	250 617 R1	NUT, injection pipe (Nozzle end) (7)	15	278 347 R1	GASKET, injection pump
3	250 610 R2	SLEEVE, injection pipe (7)	16	278 315 R1 347 230 R91 278 317 R1	GEAR, injection pump SCREW w/lock WASHER, hex-hd mach (3) WASHER, injection pump gear
4	323 717 R1	PIPE ASSY., injection Cylinder No. 6	17		PUMP ASSY., International R.D. injection (Refer to "R.D. Injection Pump") (*) SCREW, hex-hd cap (3) WASHER, med. lock (3) WASHER, injection pump (3)
5	323 716 R11	PIPE ASSY., injection cylinder No. 5	18	283 178 R1 181 317	CLAMP, injection pipe (Drilled) SCREW, hex-hd cap (5)
6	319 966 R91	HARNESS, glow plug cable rear			
7	332 618 R11	PIPE ASSY., injection cylinder No. 4			
8	304 313 R1	BRACKET, junction block			
9	601 133 C11	PIPE ASSY., injection cylinder No. 3			
10	601 132 C11	PIPE ASSY., injection cylinder No. 2			
11	320 150 R91	HARNESS, glow plug cable front			
12	601 131 C11	PIPE ASSY., injection cylinder No. 1			
13	179 849	NOZZLE ASSY., injection (Refer to "Injection Nozzle") (6) SCREW, hex-hd cap (12)			

(*) - In order to convert to Roosa-Master Fuel Injection Pump, order Conversion Kit, 304 968 R91.

FUEL SYSTEM

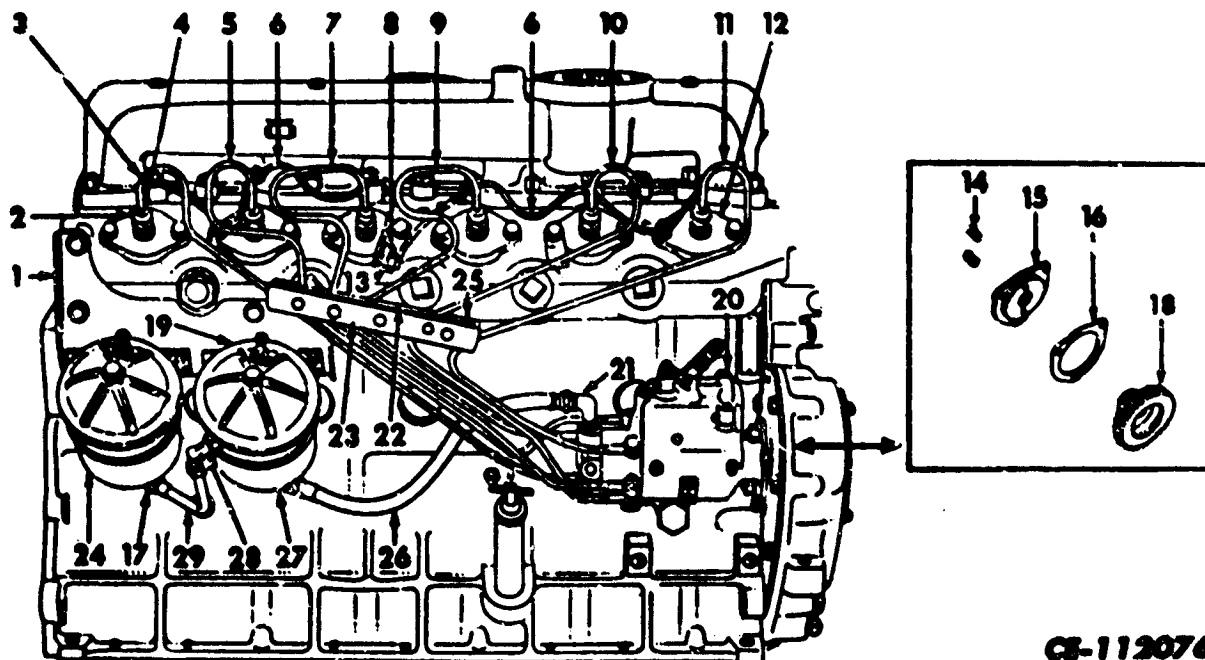
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL INJECTION PUMP AND CONNECTIONS -			22	510 D	ELBOW, final filter inlet
Continued			65	834 D	ELBOW, auxiliary filter outlet
(D-262 for 2706 w/International R.D. Pump) (*)			118	755	ELBOW, 90° pump inlet
19	263 179 R1	PAD, injection pipe clamp	137	538	ELBOW, 90° final filter outlet
20	264 718 R1	CLAMP, injection pipe	278	347 R1	GASKET, injection pump adapter
21		FILTER ASSY., primary fuel (Refer to "Fuel Filter")	275	946 R91	HOSE, 5/16 x 9/16 x 14-1/2" long (Final filter to pump)
22	606 172 C91	ELBOW, filter outlet	19	984 R1	NUT, hi-duty tube fitting
23	601 356 C1 303 545 R1	PIPE, filter outlet to pump inlet "O" RING, pipe	250	617 R1	NUT, injection pipe (Nozzle end) (6)
24	606 171 C91	CONNECTOR, pump inlet and outlet (2)	332	491 R2	PAD, injection pipe clamp (2)
25	601 357 C1 303 545 R1	PIPE, pump outlet to filter inlet "O" RING, pipe	278	335 R11	PIPE ASSY., auxiliary to final filter
26	606 173 C91	ELBOW, filter inlet	278	702 R11	PIPE ASSY., injection cylinder No. 1
27	120 498	TEE, filter outlet	278	703 R11	PIPE ASSY., injection cylinder No. 2
28	9 410 202	CONNECTOR, filter outlet (Hose to pump) (Used w/HOSE, 347 823 R91)	278	704 R11	PIPE ASSY., injection cylinder No. 3
28	606 174 C91	CONNECTOR, filter outlet (Pipe to pump) (Used w/PIPE, 601 358 C1)	278	705 R11	PIPE ASSY., injection cylinder No. 4
29	347 823 R91 303 545 R1	HOSE, filter to injection pump (Order PIPE, 601 358 C1 and CONNECTOR, 606 174 C91) "O" RING, hose	278	706 R11	PIPE ASSY., injection cylinder No. 5
29	601 358 C1 303 545 R1	PIPE, filter to injection pump "O" RING, pipe	278	707 R11	PIPE ASSY., injection cylinder No. 6
30	606 180 C91	NUT and CUSHION ASSY. (3)	384	620 R11	PIPE ASSY., fuel return
31	318 374 R1	FITTING, extended banjo	347	886 R91	PUMP ASSY., injection
32		FILTER ASSY., final fuel (Refer to "Fuel Filter")	384	617 R1	ROD, governor control
	394 968 R91	KIT, Roose-Master injection pump conversion service (For converting engines equipped w/International RD Fuel Injection Pump to Roose-Master Fuel Injection Pump) (Consists of -	250	610 R2	SLEEVE, injection pipe (6)
	303 462 R11	ADAPTER w/two STUDS, 303 463 R1			
	179 838	SCREW, hex-hd cap (3)			
	103 321	WASHER, med lock (3)			
	332 489 R1	CLAMP, injection pipe drilled			
	332 490 R1 181 317	CLAMP, injection pipe - tapped SCREW, hex-hd cap (5)			
	370 675 R1	CLIP, fuel return pipe			

(*) - In order to convert to Roose-Master Fuel Injection Pump, order CONVERSION KIT, 394 968 R91.

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FUEL INJECTION PUMP AND CONNECTIONS
 (D-236 for 3616) (D-282 for 2656 and 2706)
 (With Roose-Mastec Pump and Cartridge Type Fuel Filters)



CE-112076

1	279 318 R1 179 858 103 322	BRACKET, fuel filter SCREW, hex-hd cap (3) WASHER, med. lock (3)	14	303 463 R1	STUD, injection pump adapter (D-236 for 3616) - 17273 and below (2) (D-282 for 2656 and 2706) - 77499 and below (2)
2	260 617 R1	NUT, injection pipe (Nozzle end) (6)	15	303 462 R11	ADAPTER w/two STUDS, 303 463 R1, injection pump (D-236 for 3616) - 17273 & below (D-282 for 2656 and 2706) - 77499 and below SCREW, hex-hd cap (3) WASHER, med lock (3)
3	278 707 R11	PIPE ASSY., injection cylinder No. 6	16	278 347 R1	GASKET, injection pump adapter (D-236 for 3616) - 17273 & below (D-282 for 2656 and 2706) - 77499 and below
4	260 610 R2	SLEEVE, injection pipe (6)	17	65 834 D	ELBOW, auxiliary filter outlet (D-236 for 3616) - 17273 and below (D-282 for 2656 and 2706) - 77499 and below
5	278 706 R11	PIPE ASSY., injection cylinder No. 5	18	612 084 C1 114 497 103 324	GEAR, injection pump NUT, hex jam WASHER, med. lock
6	319 965 R91	HARNES, glow plug cable (2)	19	102 634 179 817 103 320 103 340	FILTER ASSY., final fuel (Refer to "Fuel Filter") NUT, hex (4) SCREW, hex-hd cap (4) WASHER, med. lock (4) WASHER, flat (4)
7	278 706 R11	PIPE ASSY., injection cylinder No. 4			
8	304 313 R1	BRACKET, junction block			
9	278 704 R11	PIPE ASSY., injection cylinder No. 3			
10	278 703 R11	PIPE ASSY., injection cylinder No. 2			
11	278 702 R11	PIPE ASSY., injection cylinder No. 1			
12	179 849	NOZZLE ASSY., injection (Refer to "Injection Nozzle") (6) SCREW, hex-hd cap (12)			
13	42 915 D 103 088 100 764 106 497	BLOCK, junction NUT, hex SCREW, st-rd-hd mech WASHER, med. lock			

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL INJECTION PUMP AND CONNECTIONS - Continued (D-236 for 3616) (D-282 for 2656 and 2706) (With Roose-Master Pump and Cartridge Type Fuel Filters)			<u>(D-282 for 2656)</u>		
20		(See Individual Engine Variation)	20	702 080 C91	(+) PUMP ASSY., fuel injection (1800 rpm) (Gear Drive) (See NOTE)
21	118 755	ELBOW, pump inlet	20	702 377 C92	(+) PUMP ASSY., fuel injection (2300 rpm) (Hydrostatic Transmission) (See NOTE)
22	332 491 R2	PAD, injection clamp (2)		102 635	NUT, hex (2)
23	670 004 C11	CLAMP, injection pipe drilled w/ PIN, 19 387 R1		103 321	WASHER, med. lock (2)
	181 316	SCREW, hex-hd cap (5)		142 619 H	WASHER, injection pump (2)
	19 387 R1	PIN, slit spring		701 021 C91	FILTER ASSY., primary fuel
	103 339	WASHER, flat (3)		102 634	NUT, hex (4)
	103 319	WASHER, lock (3)		179 817	SCREW, hex-hd cap (4)
24		(See Individual Engine Variation)		103 320	WASHER, med. lock (4)
				103 340	WASHER, flat (4)
25	332 490 R1	CLAMP, injection pipe-tapped			
26	275 946 R91	HOSE, 5/16 x 9/16 x 14-1/2" long (Final filter to pump)			
27	137 538	ELBOW, final filter outlet			
28	22 510 D	ELBOW, final filter outlet			
29	278 336 R11	PIPE ASSY., auxiliary to final filter			

ENGINE VARIATIONS

(D-236 for 3616)

20	610 367 C92	(+) PUMP ASSY., fuel injection (2000 rpm) (See NOTE)
	102 635	NUT, hex (2)
	103 321	WASHER, med. lock (2)
	142 619 H	WASHER, injection pump (2)
24		FILTER ASSY., primary (Refer to "Fuel Filter")

(D-282 for 2706)

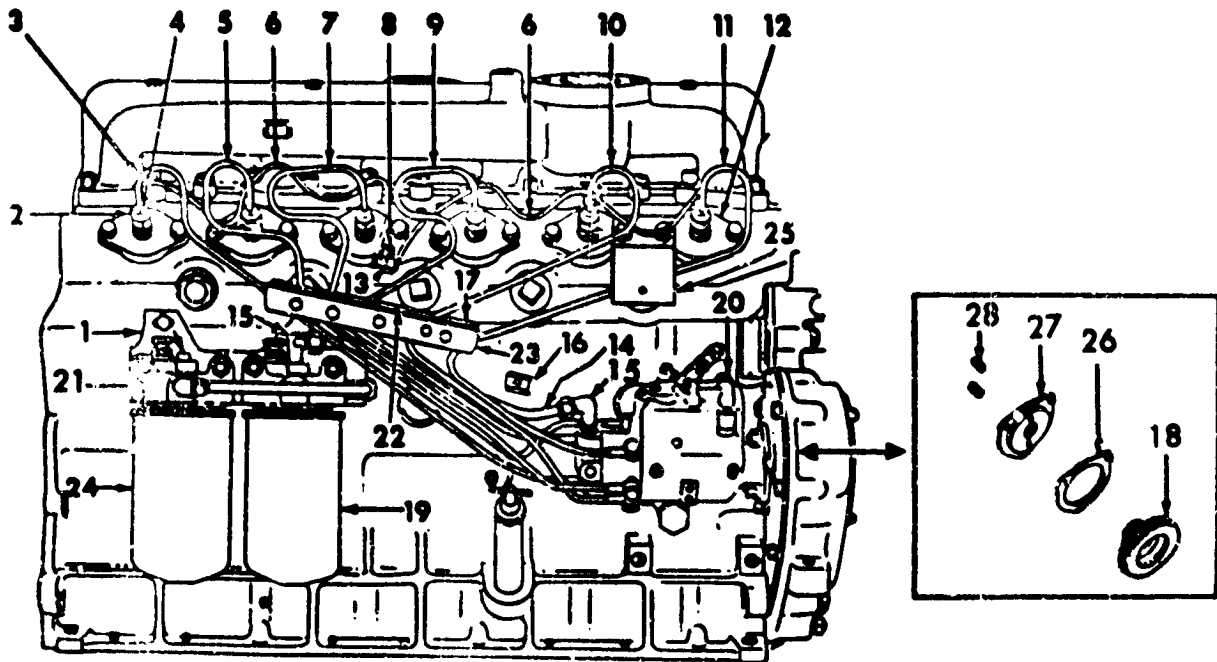
20	347 886 R91	PUMP ASSY., fuel injection (2300 rpm)
	102 635	NUT, hex (2)
	103 321	WASHER, med. lock (2)
	142 619 H	WASHER, injection pump (2)
24		FILTER ASSY., primary fuel (Refer to "Fuel Filter")

NOTE: Pumps listed with symbol (+) are not available under part numbers shown. Order basic pump and necessary parts as shown in the parts catalog PU-70. Also, refer to the PU-70 catalog for detail parts on all Roose-Master Pumps.

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FUEL INJECTION PUMP AND CONNECTIONS
 (D-236 for 3816) (D-262 for 3800A, 3800 and 3850)
 (With Roose-Master Pump and Spin-On Fuel Filters)



CS-112077

1	(See individual Engine Variations)	16	(See Individual Engine Variation)
2	260 617 R1 NUT, injection pipe (Nozzle end) (6)	17	332 490 R1 CLAMP, injection pipe - tapped
3	278 707 R11 PIPE ASSY., injection cylinder No. 6	18	612 084 C1 GEAR, injection pump 114 497 NUT, hex jam 103 324 WASHER, med. lock
4	260 610 R2 SLEEVE, injection pipe (6)		
5	278 706 R11 PIPE ASSY., injection cylinder No. 5	19	FILTER ASSY., final fuel (Refer to "Fuel Filter")
6	319 965 R01 HARNESS, glow plug cable (2)	20	(See Individual Engine Variation)
7	278 706 R11 PIPE ASSY., injection cylinder No. 4	21	HEADER, filter (Refer to "Fuel Filter") (2)
8	304 313 R1 BRACKET, junction block		
9	278 704 R11 PIPE ASSY., injection cylinder No. 3	22	332 491 R2 PAD, injection pipe clamp (2)
10	278 703 R11 PIPE ASSY., injection cylinder No. 2	23	670 004 C11 CLAMP, injection pipe drilled w/PIN 181 317 BOLT, 1-1/4" long hex-hd cap (4)
11	278 702 R21 PIPE ASSY., injection cylinder No. 1		
12	NOZZLE ASSY., injection (Refer to "Injection Nozzle") 179 849 SCREW, hex-hd cap (12)		19 387 R1 PIN, slit spring 103 339 WASHER, flat (3) 103 319 WASHER, lock (3) 181 318 BOLT, 1-3/8" long hex-hd cap
13	42 915 D BLOCK, junction 103 088 NUT, hex 100 764 SCREW, slit-rd-hd mach 106 497 WASHER, med. lock	24	FILTER ASSY., primary fuel (Refer to "Fuel Filter")
14	(See Individual Engine Variation)	25	(See Individual Engine Variation)
15	806 845 C1 ELBOW, 90° (2)	26	(See Individual Engine Variation)
		27	(See Individual Engine Variation)
		28	(See Individual Engine Variation)

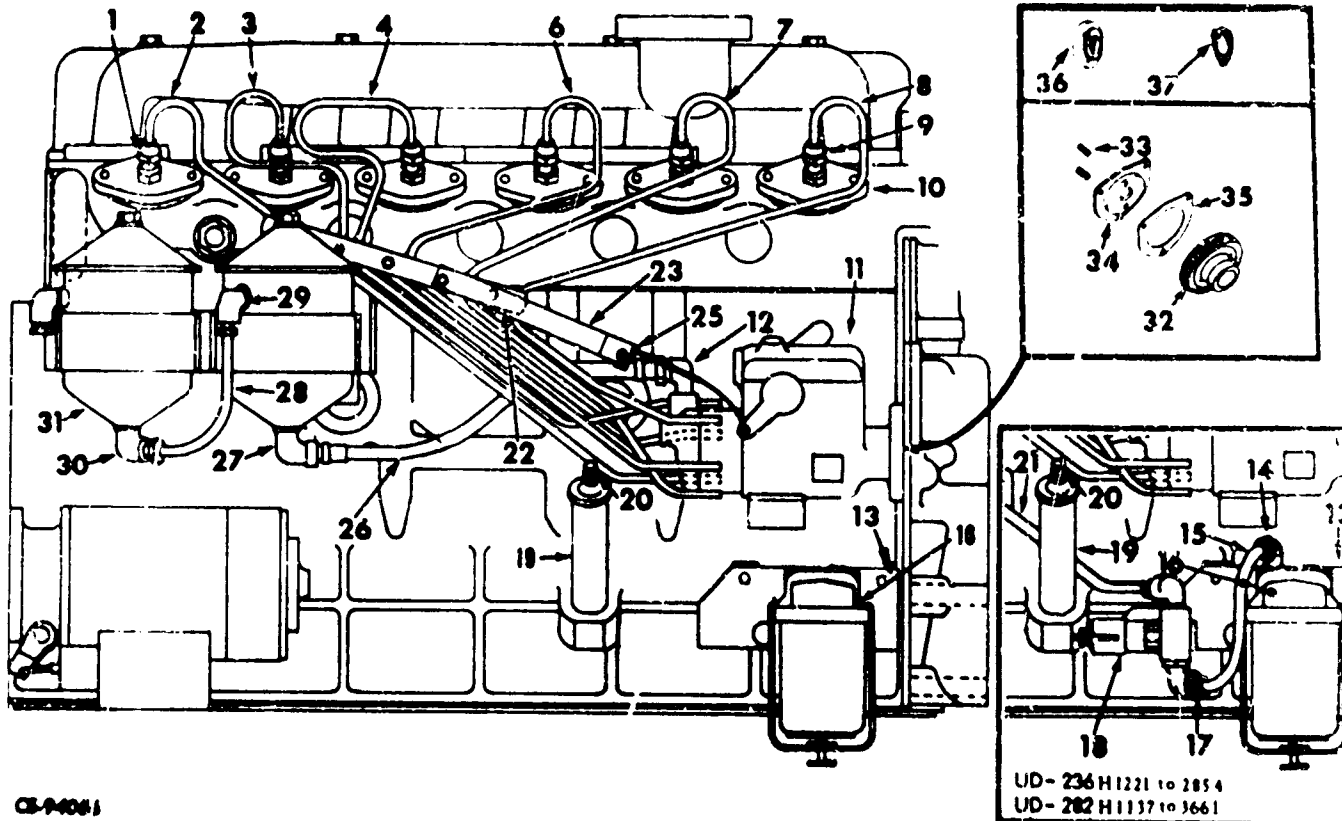
FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL INJECTION PUMP AND CONNECTIONS - Continued (D-238 for 3816) (D-282 for 3800A, 3800 and 3860) (With Roose-Master Pump and Spin-On Fuel Filters)			<u>(D-282 for 3300 and 3860)</u>		
<u>ENGINE VARIATIONS</u> <u>(D-238 for 3816)</u>			1	670 147 C1 179 820 103 320 670 148 C1	BRACKET, fuel filter SCREW, hex-hd cap (3) WASHER, lock (3) SPACER, fuel filter bracket
1	670 259 C1 179 856 103 322	BRACKET, fuel filter SCREW, 1" long hex-hd cap (2) WASHER, 7/16" med. lock (2)	14	670 150 C1i 265 204 R1 265 205 R1	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, final filter to injection pump SLEEVE (2) NUT (2)
14	670 260 C11	TUBE, final filter to injection pump	18	381 394 R1 20 651 R1 103 323	CLIP, fuel shut-off SCREW, hex-hd cap WASHER, lock
20	810 367 C92 102 635 103 321 142 619 H	(+) PUMP ASSY., fuel injection (2000 rpm) (See NOTE) NUT, hex (2) WASHER, med. lock (2) WASHER, injection pump (2)	20	615 358 C91 102 635 103 321 142 619 H	(+) PUMP ASSY., fuel injection (2300 rpm) (See NOTE) NUT, hex (2) WASHER, med. lock (2) WASHER, injection pump (2)
26	278 347 R1	GASKET, injection pump adapter 17273 and below	25	680 815 C1 362 666 R1 362 667 R1	BRACKET, governor control CLIP, cable CLIP, water temperature wiring
27	303 462 R11 179 838 103 321	ADAPTER w/two STUDS, 303 463 R1, injection pump 17273 and below SCREW, hex-hd cap (3) WASHER, med. lock (3)			
28	303 463 R1	STUD, injection pump adapter (2) - 17273 and below			
<u>(D-282 for 3800A)</u>					
1	673 400 C1 20 651 R1 831 894 R1 103 323 103 321 167 649 R1	BRACKET, fuel filter SCREW, 1" long hex-hd cap (2) SCREW, 2-1/2" long hex-hd cap WASHER, 1/2" med. lock (2) WASHER, 3/8" lock SPACER			
14	678 191 C91 265 204 R1 265 205 R1	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, final filter to injection pump SLEEVE (2) NUT (2)			
18	381 394 R1 20 651 R1 103 323	CLIP, fuel shut-off SCREW, 1" long hex-hd cap WASHER, lock			
20	673 600 C91 102 635 103 321 142 619 H	(+) PUMP ASSY., fuel injection (2350 rpm) (See NOTE) NUT, hex (2) WASHER, med. lock (2) WASHER, injection pump (2)			
25	680 815 C1 341 289 R1 24 860 R1 26 273 R1 264 196 R91 24 048 R1 26 272 R1	BRACKET, governor control CLIP, filter to pump tube SCREW, hex-hd cap WASHER, med. lock CLIP, filter to pump tube SCREW, hex-hd cap WASHER, med. lock			

NOTE: Pumps listed with symbol (+) are not available under part numbers shown. Order basic pump and necessary parts as shown in the parts catalog, PU-70. Also, refer to the PU-70 catalog for detail parts on all Roose-Master Pumps.

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FUEL INJECTION PUMP AND CONNECTIONS
 (D-236 for H-30A, H-30B, H-30B-F and H-30B-R)
 (D-282 for H-50A, H-50B and H-50C)



CS-94061

1	250 617 R1 250 610 R2	NUT, injection pipe (Nozzle end) (6) SLEEVE, injection pipe (6)	11	321 307 R91	(+) PUMP ASSY, fuel injection (DBGFC-629-37AE) (2200 (H-30A, H-30B, H-30B-F and H-30B-R) (Will work for PUMP ASSY, 317 625 R91) (See NOTE)
2	278 707 R11	PIPE, injection (Cylinder No. 6)			
3	278 706 R11	PIPE, injection (Cylinder No. 5)			
4	278 705 R11	PIPE, injection (Cylinder No. 4)	11	310 546 R91	PUMP ASSY, fuel injection (DBGFC-631-12AE) (2200 (H-50A and H-50B) (Order PUMP ASSY, 321 207 R91) (See NOTE)
6	278 704 R11	PIPE, injection (Cylinder No. 3)			
7	278 703 R11	PIPE, injection (Cylinder No. 2)	11	321 207 R91	(+) PUMP ASSY, fuel injection (DBGFC-631-105AE) (2200 (H-50A and H-50B) (Will work PUMP ASSY, 310 546 R91) (NOTE)
8	278 702 R21	PIPE, injection (Cylinder No. 1)			
9		FITTING, nozzle (Refer to "Injection Nozzle") (6)			
10		NOZZLE ASSEMBLY, injection (Refer to "Injection Nozzle") (6)			
11	317 625 R91	PUMP ASSY, fuel injection (DBGFC-629-13AE) (2200 RPM) (H-30A, H-30B, H-30B-F and H-30B-R) (Order PUMP ASSY, 321 307 R91) (See NOTE)			

NOTE: Pumps listed with symbol (+) are not available under part numbers shown. Order basic pump and necessary parts shown in the parts catalog. For details refer to the P. 27 catalog for details on all these items.

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL INJECTION PUMP AND CONNECTIONS - Continued (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) (D-282 for H-50A, H-50B and H-50C)					
11	815 101 C94	(+) PUMP ASSY., fuel injection (DBGFC-631-32AL) (2500 rpm) (H-50C) (See NOTE)	22	332 490 R1	CLAMP, injection pipe (Tapped)
	25 896 R1	WASHER, hardened (2)		332 491 R2	PAD, injection pipe clamp (2)
	25 522 R1	NUT (2)		26 258 R1	SCREW, hex-hd cap (5)
	142 619 H	WASHER (2)		27 616 R1	WASHER, hardened (3)
12	118 755	ELBOW, 3/8" x 90° flared tube (Injection pump inlet)	23	312 588 R11	BRACKET, engine shut-off wire
13	304 443 R2	BRACKET, fuel pump and water trap	25	275 965 R1	CLAMP, engine shut-off wire
	25 794 R1	SCREW, hex-hd cap (2)		110 633	NUT
	26 272 R1	WASHER, hardened (2)		110 487	SCREW, rd-hd mach
14	37 323 D	ELBOW, hi-duty male (D-236) - 1221 to 2854 (4) (D-282) - 1137 to 3661 (4)		106 497	WASHER, lock
15		TUBE, water trap to priming pump (Order 3/8" OD x 10" long cut from bulk stock, 995 063 R1) (*) (D-236) - 1221 to 2854 (D-282) - 1137 to 3661	26	275 946 R91	HOSE, final fuel filter to injection pump flexible (14.5" long)
16		TRAP ASSEMBLY, water (Refer to "Water Trap")	27	137 538	ELBOW, 1/4" x 90° (Final fuel filter outlet)
17	278 953 R91	NUT, hi-duty nylon (D-236) - 1221 to 2854 (4) (D-282) - 1137 to 3661 (4)	28	278 335 R11	PIPE, primary filter to final fuel filter
18		PUMP ASSEMBLY, hand primer (Refer to "Hand Primer Pump") (D-236) - 1221 to 2854 (D-282) - 1137 to 3661	29	22 510 D	ELBOW, final fuel filter inlet
	103 088	NUT, No. 10 (2)	30	65 834 D	ELBOW, primary fuel filter outlet
	100 768	SCREW, No. 10 x 1" slt-rd-hd mach (2)	31		FILTER ASSEMBLY, fuel (Refer to "Primary and Final Fuel Filters") (2)
	106 497	WASHER, No. 10 lock (2)	32	612 084 C1	GEAR, injection pump drive (Will work for injection pump GEAR, 278 316 R1 and WASHER, 278 317 R1)
19		TUBE, oil filler (Refer to "Crankcase and Related Parts")		114 497	NUT, 9/16" NF jam
20		GAUGE, oil level (Refer to "Crank- case and Related Parts")		27 516 R1	WASHER, hardened
21		TUBE, priming pump to auxiliary fuel filter (Order 3/8" OD x 3/4" long cut from bulk stock, 995 063 R1) (*) (D-236) - 1221 to 2854 (D-282) - 1137 to 3661	33	303 463 R1	STUD, Roosa pump adapter (2) (D-236) - 1221 to 8182 (D-282) - 1137 to 12051
22	332 486 R1	CLAMP, injection pipe (Drilled) (Order PACKAGE, 701 127 C91) (D-236) - 1221 to 9008 (D-282) - 1137 to 13596	34	303 462 R11	ADAPTER w/ two STUD, 303 463 R1, Roosa pump (D-236) - 1221 to 8182 (D-282) - 1137 to 12051
22	670 004 C11	CLAMP, w/three PIN, 19 387 R1 injection pipe drilled (D-236) - 9009 and up (D-282) - 13597 and up		179 838	SCREW, hex-hd cap (3)
				103 321	WASHER, lock (3)
			35	278 347 R1	GASKET, injection pump adapter (D-236) - 1221 to 8182 (D-282) - 1137 to 12051
			36	278 316 R1	HUB, injection pump gear (Used with GEAR, 278 315 R1)
				347 230 R91	SCREW, hex-hd mach. w/external tooth lock (3)
			37	278 317 R1	WASHER, injection pump gear (Used w/GEAR, 278 315 R1)

NOTE: Pumps listed with symbol (+) are not available under part numbers shown. Order basic pump and necessary parts as shown in the parts catalog PU-70. Also, refer to the PU-70 catalog for detail parts on all Roosa Master Pumps.

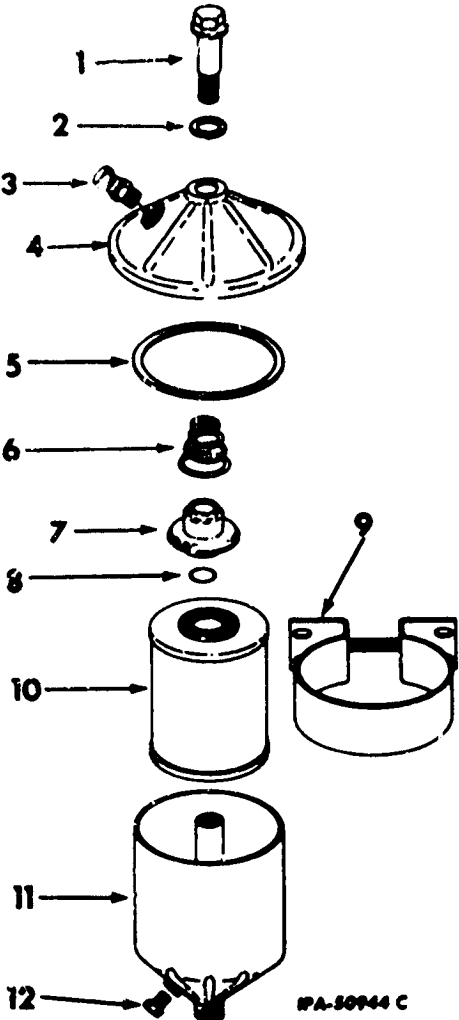
(*) - Part number and price covers one foot of tubing. Furnished only in fifty foot rolls.

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL INJECTION PUMP AND CONNECTIONS - Continued					
(D-236 for H-30A, H-30B, H-30B-F and H-30B-R)					
(D-282 for H-50A, H-50B and H-50C)					
306 273 R1		BRACKET, fuel filter			
24 849 R1		SCREW, hex-hd cap (3)			
26 272 R1		WASHER, hardened (3)			
305 927 R1		BRACKET, hand primer pump			
		(D-236) - 1221 to 2854			
		(D-282) - 1137 to 3661			
102 634		NUT (2)			
179 816		SCREW, hex-hd cap (2)			
103 320		WASHER, lock (2)			
263 716 R91		CLIP, fuel tube			
		(D-236) - 1221 to 2854			
		(D-282) - 1137 to 3661			
30 402 D		ELBOW, fuel return line			
19 984 R1		NUT, tube			
19 387 R1		PIN, slotted spring, 7/16 x 3/4"			
		(D-236) - 9009 and up (3)			
		(D-282) - 13597 and up (3)			
701 127 C91		PACKAGE, injection pipe clamp field			
		service (Consists of CLAMP,			
		670 004 C11, and two PAD,			
		332 491 R2)			
		(D-236) - 1221 to 9008			
		(D-282) - 1137 to 13596			
305 925 R1		SPACER, fuel filter			
995 063 R1		TUBE, 3/8"OD copper bulk (*)			
676 026 C1		WIRE, lock (2)			
678 027 C1		LOCK, seal wire (2)			

(*) - Part number and price covers one foot of tubing. Furnished only in fifty foot rolls.

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
PRIMARY AND FINAL FUEL FILTERS (Cartridge Type) (Furoator Products, Inc.) (D-236 for All Models) (D-282 for H-50A, H-50B, H-50C, 2656 and 2706)			D	601 507 C91	FILTER ASSY., primary fuel (Optional w/FILTER ASSY., 601 508 C91) (Order PRIMARY FUEL FILTER ASSY., 610 932 C91)
			E	610 932 C91	FILTER ASSY., primary fuel (Optional w/FILTER ASSY., 610 933 C91) (Together w/ BRACKET, 304 104 R91, will work for primary fuel FILTER) (Together w/ADAPTER, 444 014, BRACKET, 304 104 R91 and TEE, 116 386, will work for primary fuel FILTER, 333 863 R91)
				25 520 R1	NUT (2)
				25 750 R1	SCREW, hex-hd cap (2)
				27 326 R1	WASHER, hardened (2)
				(Consists of the following parts -	
			1	321 727 R1	SCREW, retaining (2 for A and C)
			1	336 109 R1	SCREW, retaining (? for B)
			1	368 333 R1	SCREW, retaining (D and E)
			2	368 334 R1	GASKET, retaining
			3	39 677 DA	BLEEDER
			4	321 720 R91	COVER and BUSHING
			5	304 102 R1	GASKET, element cover
			6	321 721 R1	SPRING, retaining
			7	321 722 R91	RETAINER, gasket
			8	355 966 R1	GASKET, "O" ring retainer
			9	304 104 R91	BRACKET, fuel filter (Not furnished as part of fuel filter assemblies)
			10	304 101 R91	PACKAGE, final fuel filter field service (Consists of ELEMENT, and GASKET, 304 102 R1) (A, B and C)
			10	306 353 R91	PACKAGE, primary fuel filter element field service (Consists of ELEMENT and GASKET, 304 102 R1) (D and E)
A	278 062 R91	FILTER ASSY., primary or final fuel (Optional w/FILTER ASSY., 306 399 R91) (Order FINAL FUEL FILTER ASSY., 347 066 R91 or PRIMARY FUEL FILTER ASSY., 610 932 C91)	11		CASE (Not furnished separately) (B and C)
B	333 863 R91	FILTER ASSY., primary or final fuel (Order FINAL FUEL FILTER ASSY., 347 066 R91 or PRIMARY FUEL FILTER ASSY., 610 932 C91)	11	304 100 R91	CASE (A, D and E)
			12	258 995 R91	PLUG, fuel filter drain
C	347 066 R91	FILTER ASSY., final fuel (Together w/BRACKET, 304 104 R91, will work for final fuel FILTER, 278 062 R91 or 306 399 R91. Also together w/BRACKET, 304 104 R91, ELBOW, 179 547 and ELBOW, 37 323 D, will work for final fuel FILTER, 333 863 R91)		444 014	ADAPTER, primary fuel filter inlet (+)
					(+) - Used w/Primary Fuel FILTER, 610 932 C91 only when it replaces primary fuel FILTER, 333 863 R91.

FUEL SYSTEM

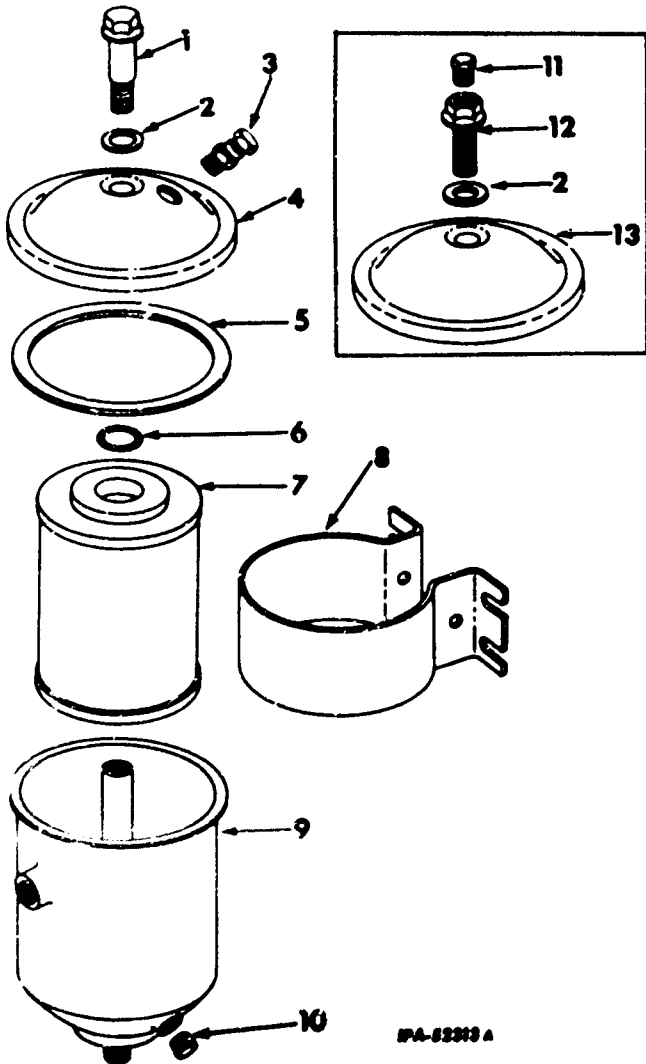
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
PRIMARY AND FINAL FUEL FILTERS - Continued (Cartridge Type) (Furoletor Products, Inc.) (D-236 for All Models) (D-282 for H-50A, H-50B, H-50C, 2656 and 2706)					
	37 323 D	ELBOW, 3/8" x 90° final filter inlet (⊙) (C)			
	179 547	ELBOW, 3/8 x 1/4" reducing pipe (Final filter outlet) (⊙) (C)			
	603 945 C1	NUT, flat speed (D and E)			
	116 396	TEE, 3/8 x 3/8 x 1/4" reducing (Primary fuel filter outlet) (+) (E)			

(⊙) - Used with Final Fuel FILTER, 347 066 R91
only when it replaces Final Fuel FILTER,
333 863 R91.

(+) - Used with Primary Fuel FILTER, 610 932 C91
only when it replaces primary fuel FILTER,
333 863 R91.

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
PRIMARY AND FINAL FILTERS (Cartridge Type) (Fram Corporation) (D-236 for All Models) (D-282 for H-50A, H-50B, H-50C, 2656 and 2706)				25 520 R1	NUT (2)
				25 750 R1	SCREW, hex-hd cap (2)
				27 326 R1	WASHER, hardened (2) (Consists of the following parts -
			1	321 822 R1	SCREW, fuel filter retaining cap (B and C)
			2	368 493 R1	GASKET, vent cap screw
			3	39 677 DA	BLEEDER, fuel filter (B and C)
			4	603 241 C91	COVER, fuel filter (B and C)
			5	304 102 R1	GASKET, element cover
			6	306 777 R1	"O" RING, 9/16 x 3/4 x 3/32"
			7	304 101 R91	PACKAGE, final fuel filter element field service (Consists of ELEMENT, and GASKET, 304 102 R1) (A)
			7	306 353 R91	PACKAGE, primary fuel filter element field service (Consists of ELEMENT, and GASKET, 304 102 R1) (B and C)
			8	306 780 R1	STRAP, bracket (A)
				120 372	NUT, sq.
				133 083	SCREW, rd-hd mach.
				120 380	WASHER, lock
			9	306 775 R91	BODY (A)
			9		BODY (Not furnished separately) (B and C)
			10	258 995 R1	PLUG, fuel filter drain (A)
			10	444 612	PLUG, fuel filter drain (B)
			10	610 383 C1	PLUG, drain (C)
			11	306 778 R1	PLUG, vent (A)
			12	368 492 R1	SCREW, vent cap (A)
			13	306 776 R91	COVER (A)

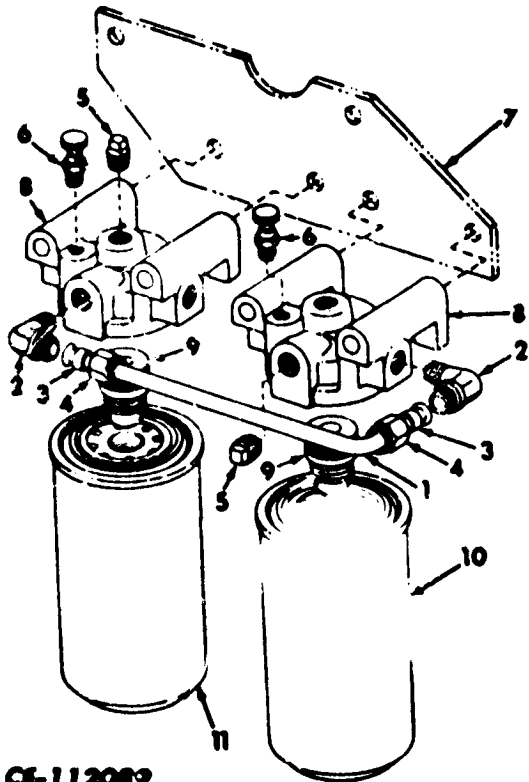


Parts without letters after the description indicates the part is used for all Filters listed below.

- A 306 399 R91 FILTER ASSY., final fuel (Optional w/FILTER ASSY., 278 082 R91) (Order FILTER ASSY., 347 086 R91)
- B 601 508 C91 FILTER ASSY., primary fuel (Optional w/FILTER ASSY., 601 507 C91) (Order FILTER ASSY., 610 933 C91)
- C 610 933 C91 FILTER ASSY., primary fuel (Optional w/FILTER ASSY., 610 932 C91) (Together w/ BRACKET, 304 104 R1, will work for FILTER ASSY., 601 508 C91)

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL FILTERS (Spin-On Type) (D-236 for 3616) (D-282 for 3600A, 3800 and 3850)			9		RETAINER (Order HEADER, 812 277 C1)
			10	702 252 C1	FILTER, final fuel
			10	702 253 C1	FILTER, final fuel (Will work for 702 142 C1)
			11		(See Individual Engine Variation)



CE-112089

ENGINE VARIATIONS

(D-236 for 3616)

11	625 625 C1	FILTER, primary fuel (Will work for FILTER, 702 250 C1)
	or	
11	625 627 C1	FILTER, primary fuel (Will work for FILTER, 702 251 C1 and 625 628 C1)

(D-282 for 3600A, 3800 and 3850)

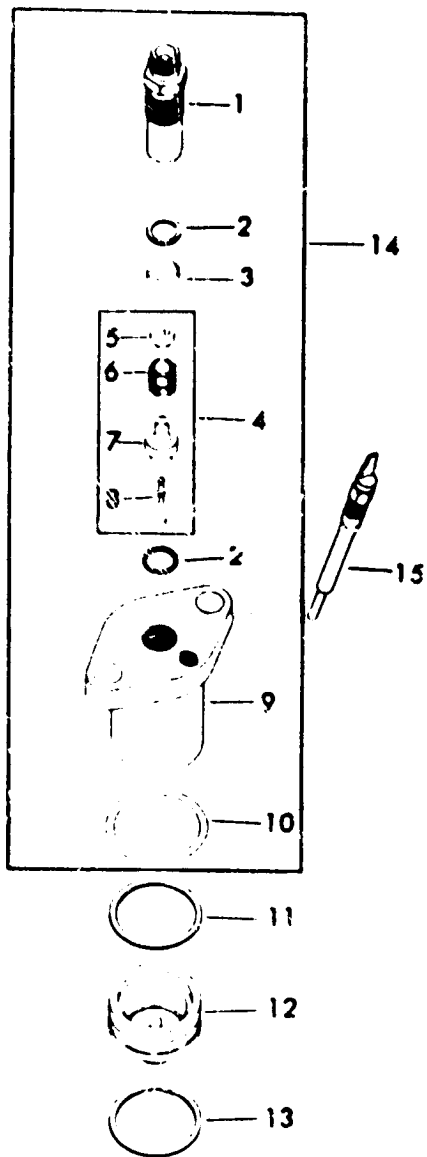
11	702 254 C1	FILTER w/WATER SEPARATOR FEATURE, primary fuel
	or	
11	702 255 C1	FILTER w/WATER SEPARATOR FEATURE, primary fuel (Will work for FILTER, 702 256 C1)

1	670 149 C11	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary filter to final filter
2	606 845 C1	ELBOW, primary filter outlet (2)
3	265 204 R1	SLEEVE (2)
4	265 205 R1	NUT (2)
5	444 654	PLUG, 1/4"NPT pipe (4)
6	39 677 DA	VALVE, bleed (2)
7		BRACKET, filter mounting (Refer to "Fuel Injection Pump and Connections")
8	612 277 C1	HEADER w/RETAINER, filter (2)
	433 111	SCREW, 4-1/4" long hex-hd cap (D-282 for 3800 and 3850) (4)
	186 285	SCREW, 4" long hex-hd cap (D-236 for 3616) (D-282 for 3800A) (4)
	103 321	WASHER, med. lock (D-236 for 3616) (D-282 for 3600A) (4)
	103 341	WASHER, flat (4)
	102 635	NUT (D-236 for 3616) (D-282 for 3800 and 3850) (4)

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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INJECTION NOZZLE, PRE-COMBUSTION CHAMBER AND GLOW PLUG (D-236)



6	310 393 R1	SPRING, nozzle valve			
7		SEAT, nozzle valve (Not furnished separately)			
8		VALVE, nozzle (Not furnished separately)			
9	310 389 R1	BODY, nozzle (6)			
10	251 044 R2	SEAL, nozzle body dust (6)			
11	260 879 R4	GASKET, nozzle body (6)			
12	341 163 R1	CHAMBER, pre-combustion			
13	260 879 R4	GASKET, pre-combustion chamber (6)			
14	341 120 R91	NOZZLE ASSY., injection (Order six NOZZLE, 332 487 R91 and six CHAMBER, 341 163 R1) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) (6)			
14	332 487 R91	NOZZLE ASSY., injection (When NOZZLE ASSY., 341 120 R91 is required, order six NOZZLE ASSY., 332 487 R91 and six CHAMBER, 341 163 R1) (D-236 for H-30A, H-30B, H-30B-F, H-30B-R and 3616) (6)			
	21 318 R1	SCREW, hex-hd cap (12)			
15	304 131 R3	PLUG, glow (6)			

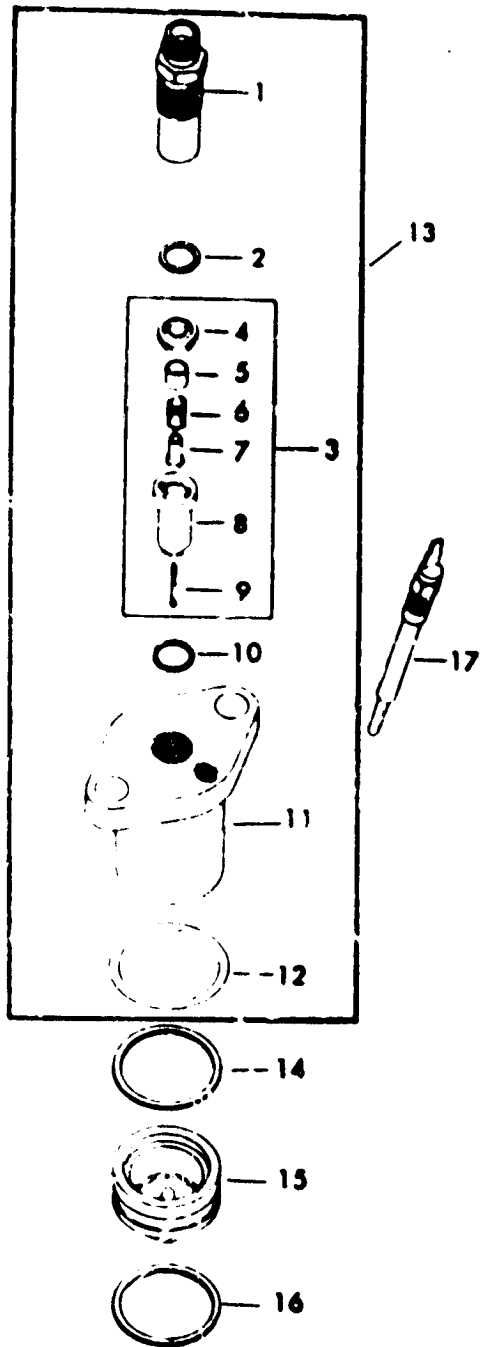
CF-112046

1	278 321 R1	FITTING, nozzle (6)
2	279 274 R1	GASKET, nozzle (18)
3	310 402 R1	SLEEVE, nozzle valve (6)
4	330 303 R91	VALVE ASSEMBLY, nozzle (6)
5	310 394 R1	SEAT, nozzle spring (.102")
5	310 395 R1	SEAT, nozzle spring (.104")
5	310 396 R1	SEAT, nozzle spring (.106")
5	310 397 R1	SEAT, nozzle spring (.108")
5	310 398 R1	SEAT, nozzle spring (.110")
5	310 399 R1	SEAT, nozzle spring (.112")
5	310 400 R1	SEAT, nozzle spring (.114")
5	310 401 R1	SEAT, nozzle spring (.116")

FUEL SYSTEM

REF. NO	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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INJECTION NOZZLE, PRECOMBUSTION CHAMBER AND GLOW PLUG
 (D-282 for H-50A, H-50B and H-50C)



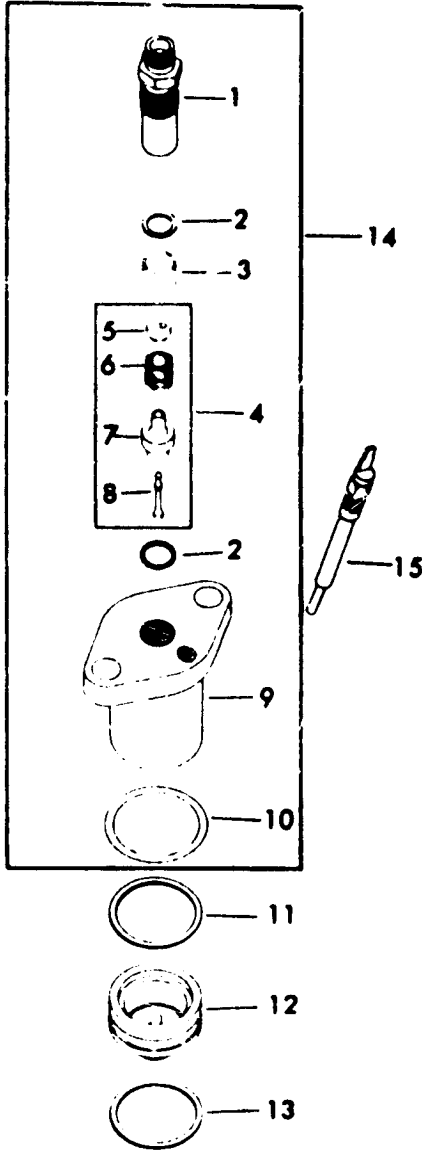
1	279 265 R1	FITTING, nozzle (6)
2	308 011 R1	GASKET, nozzle valve (12)
3	303 461 R91	VALVE ASSEMBLY, nozzle (6)
4	309 008 R1	CAP, nozzle body (6)
5		HANGER, spring (Order VALVE ASSY., 303 461 R91)
6	308 997 R1	SPRING, nozzle (.4440 - .4459")
7	309 008 R1	SPACER (.020 - .024")
7	309 009 R1	SPACER (.026 - .030")
7	309 010 R1	SPACER (.032 - .036")
7	309 011 R1	SPACER (.038 - .042")
8		BODY, nozzle (Not furnished separately)
9		PINTLE (Not furnished separately)
10	272 761 R1	GASKET, nozzle valve (6)
11	279 264 R2	BODY, nozzle (6)
12	251 044 R2	SEAL, nozzle body dust (6)
13	279 263 R91	NOZZLE ASSEMBLY, injection (Order NOZZLE ASSY., 332 495 R91) (6)
14	260 879 R4	GASKET, nozzle body (3)
15	278 275 R3	CHAMBER, precombustion (6)
16	260 879 R4	GASKET, precombustion chamber (6)
17	304 131 R3	PLUG, glow (6)

CS-112032

FUEL SYSTEM

REF. PART
NO. NUMBER DESCRIPTION

INJECTION NOZZLE, PRECOMBUSTION CHAMBER AND GLOW PLUG (D-282)



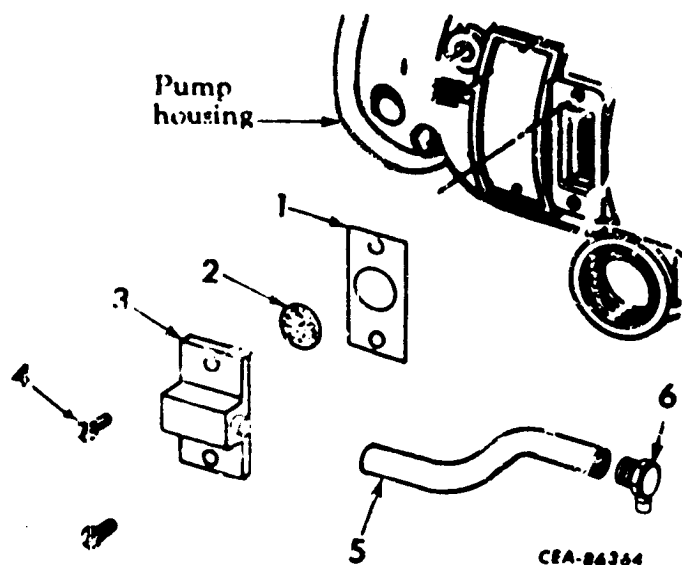
CE-112046

REF. NO.	PART NUMBER	DESCRIPTION
1	278 321 R1	FITTING, nozzle (6)
2	279 274 R1	GASKET, nozzle (18)
3	310 402 R1	SLEEVE, nozzle valve (6)
4	310 390 R91	VALVE ASSY., nozzle (Used w/ NOZZLE, 310 388 R91) (6)
4	332 496 R91	VALVE ASSY., nozzle (Used w/ NOZZLE, 332 495 R91) (6)
5	310 394 R1	SEAT, nozzle spring (.101 - .102")
5	310 395 R1	SEAT, nozzle spring (.103 - .104")
5	310 396 R1	SEAT, nozzle spring (.105 - .106")
5	310 397 R1	SEAT, nozzle spring (.107 - .108")
5	310 398 R1	SEAT, nozzle spring (.109 - .110")
5	310 399 R1	SEAT, nozzle spring (.111 - .112")
5	310 400 R1	SEAT, nozzle spring (.113 - .114")
5	310 401 R1	SEAT, nozzle spring (.115 - .116")
6	310 393 R1	SPRING, nozzle valve (6)
7		SEAT, nozzle valve (Order VALVE ASSY., 310 390 R91 for NOZZLE, 310 388 R91) (Order VALVE ASSY., 332 496 R91 for NOZZLE, 332 495 R91) (6)
8		VALVE, nozzle (Order VALVE ASSY., 310 390 R91 for NOZZLE 310 388 R91) (Order VALVE ASSY., 332 496 R91 for NOZZLE, 332 495 R91) (6)
9	310 389 R1	BODY, nozzle (6)
10	251 044 R2	SEAL, nozzle body dust (6)
11	260 879 R4	GASKET, nozzle body (6)
12	278 275 R3	CHAMBER, precombustion (6)
13	260 879 R4	GASKET, precombustion chamber (6)
14	310 388 R91	NOZZLE ASSY., injection (Order NOZZLE ASSY., 332 495 R91) (D-282 for H-50A, H-50B and H-50C) (6)
14	332 495 R91	NOZZLE ASSY., injection (Will work for NOZZLE ASSY., 279 263 R91 and 310 388 R91) (D-282 for H-50A, H-50B, H-50C, 2656, 2706, 3600A, 3800 and 3850) (6)
	21 318 R1	SCREW, hex-hd cap (12)
15	304 131 R3	PLUG, glow (6)

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION
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RETURN FUEL BY-PASS
 (Roose-Master)
 (D-236 for All Models.)
 (D-282 for 2708)

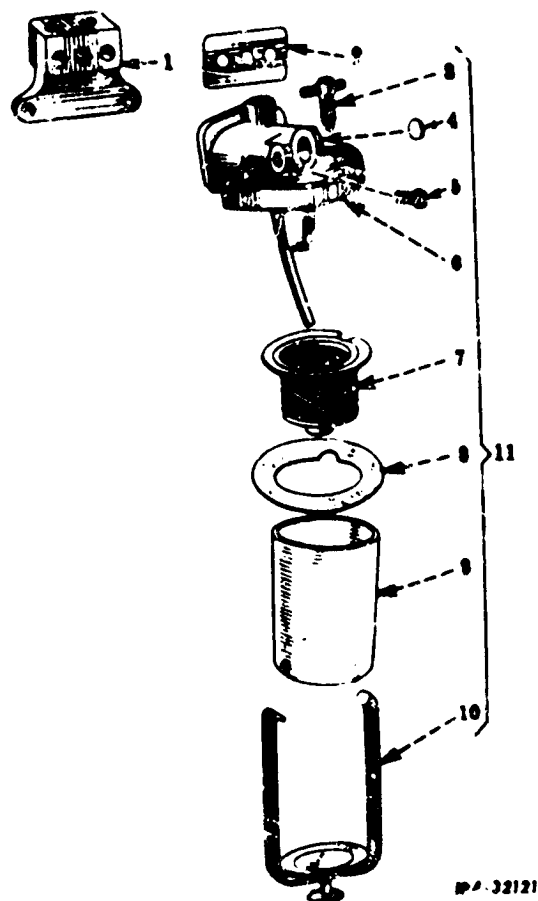


606 847 C91 KIT, return fuel by-pass system
 (Consists of the following parts -

- | | | |
|---|-------------|--|
| 1 | 610 953 C1 | GASKET, timing and return oil fitting |
| 2 | 610 955 C1 | SCREW, return oil |
| 3 | 610 951 C91 | FITTING, timing and return oil |
| 4 | 134 213 | SCREW, No. 8 x 5/16" slt-ov-hd (2) |
| 5 | 610 952 C1 | HOSE, return oil |
| 6 | 610 954 C91 | FITTING, inlet |
| | 610 950 C91 | CONNECTOR, return line (Top of governor control cover) |

REF. NO.	PART NUMBER	DESCRIPTION
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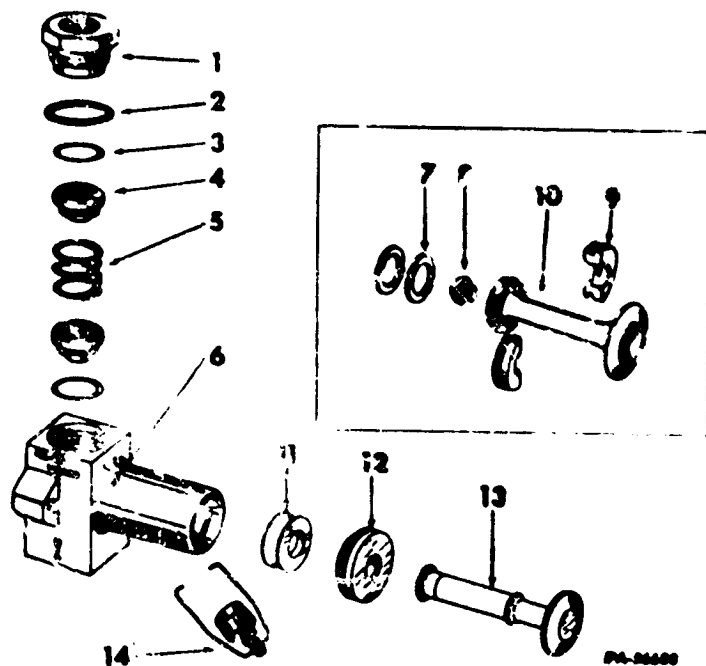
WATER TRAP
 (D-236)



- | | | |
|----|--|---|
| 1 | 9 311 D
24 840 R1
25 522 R1
25 898 R1 | BRACKET, water trap
SCREW, hex-hd cap (2)
NUT (2)
WASHER, hardened (2) |
| 2 | 615 270 C | GASKET, water trap |
| 3 | 279 173 R1 | SCREW, water trap drain |
| 4 | 24 805 D | PLUG, 3/8" brs. expansion (Type No. 1) |
| 5 | 60 871 DA | SCREW, water trap vent |
| 6 | 251 380 R91
275 835 R1
26 273 R1 | TOP w/drain PIPE and PLUG,
24 805 D, water trap
SCREW, hex-hd cap
WASHER, hardened |
| 7 | 251 348 R91 | SCREEN, water trap |
| 8 | 280 708 R2 | GASKET, water trap bowl |
| 9 | 60 877 D | GLASS, water trap |
| 10 | 60 878 DX | BAIL w/thumb SCREW, water trap |
| 11 | 251 355 R91 | TRAP ASSEMBLY, water |

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
HAND PRIMER PUMP (Hartford Machine Screw Co.) (D-236 for H-30A, H-30B and H-30C) - 1221 to 2864 (D-282 for H-50A, H-50B and H-50C) - 1137 to 3961			10	307 860 R1	PLUNGER, pump (A)
			11	309 019 R1	SEAL, hand primer piston (B)
			12	309 018 R1	GUIDE, hand primer plunger (B)
			13	309 017 R1	PLUNGER, pump (B)
			14	307 861 R91	NUT w/WIRE, hand primer screw
				307 863 R1	CAP, hand primer pump rubber (A)
				347 992 R1	CAP, plunger guide retaining (B)



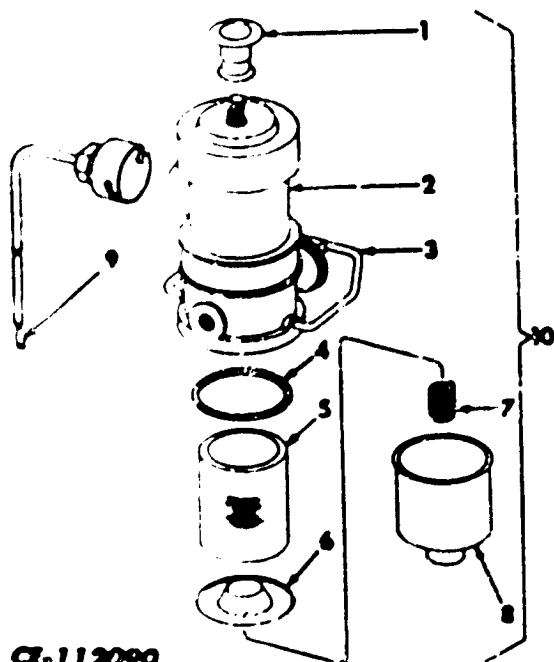
Parts without letters after the description indicates the part is used for both Pumps listed below.

A	303 753 R91	PUMP ASSEMBLY, hand primer (Order 303 753 R91 Hartford Machine Screw Co. number 12382) (t)
B	303 753 R91	PUMP ASSEMBLY, hand primer (Will work for 303 753 R91 Hartford Machine Screw Co. number 701-7A) (t) (Consists of the following parts -
1	307 867 R1	NUT, hand primer valve
2	307 870 R1	RING, valve nut seal
3	379 181 R1	GASKET, primer valve (2)
4	316 813 R91	VALVE, hand primer (2)
5	307 969 R1	SPRING, hand primer valve retaining
6		BODY, hand primer pump (Not furnished separately)
7	307 865 R1	SEAL, hand primer piston (A) (2)
8	307 864 R1	SEAL, hand primer piston (A)
9	307 862 R1	GUIDE, hand primer plunger (A)

(t) - When ordering individual parts for either Pump Assembly, be sure to check vendors part number for Pump Assembly.

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**ELECTRIC FUEL PUMP
(D-236 for 3616)**



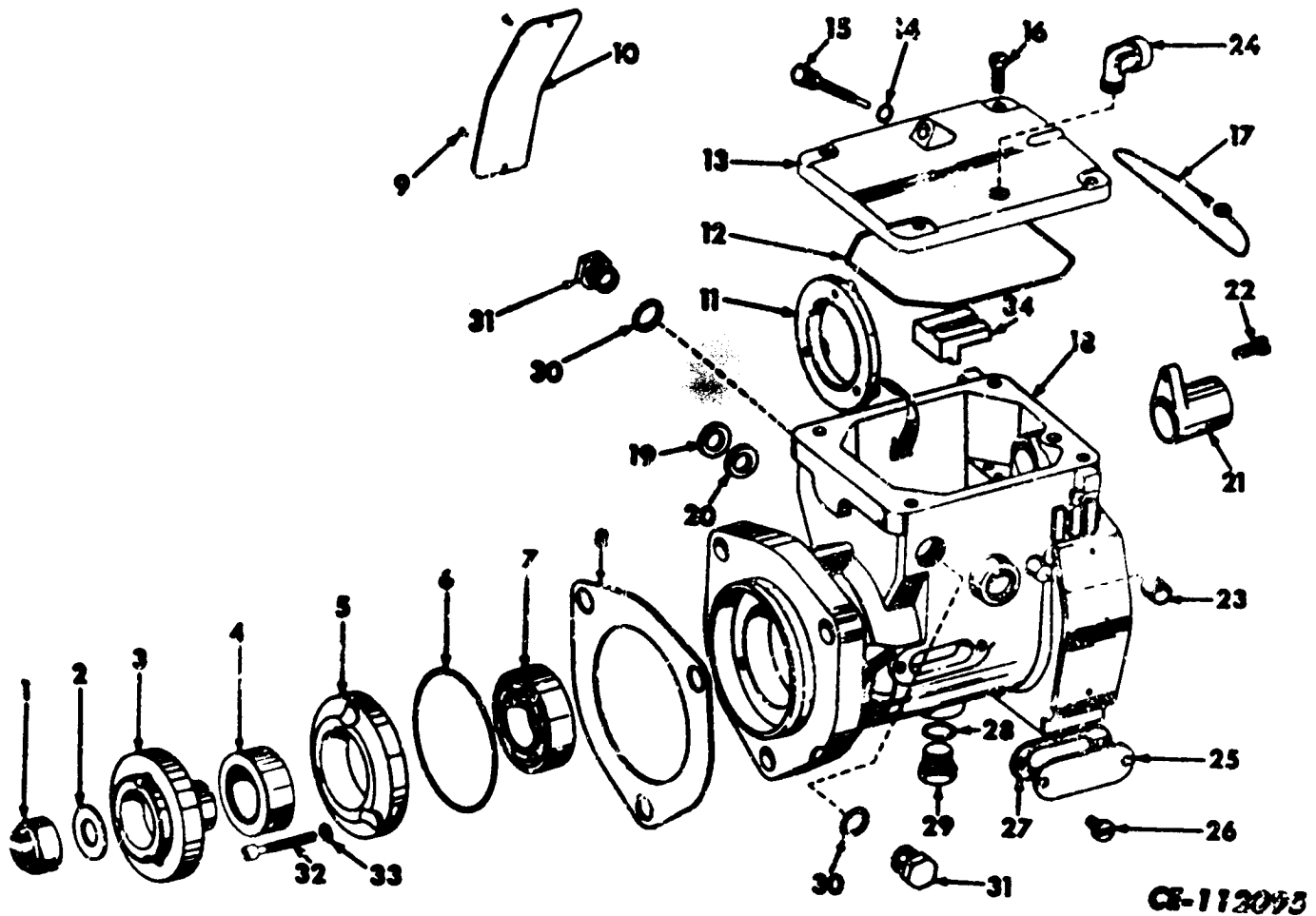
CF-112090

1	313 602 R1	COVER, rubber pulse chamber
2		PUMP ASSY. (Order PUMP, 306 274 R91)
	124 818	NUT, hex. jam
	180 034	SCREW, hex-hd cap
3	313 603 R91	BAIL, pump
4	313 604 R1	GASKET, fuel pump
5	313 606 R1	FILTER, fuel bowl
6	313 607 R1	BASE, fuel bowl
7	313 608 R1	SPRING, fuel filter base
8	313 605 R1	BOWL, fuel filter pump
9	306 396 R1	CONNECTOR, terminal
10	306 274 R91	PUMP ASSY., electric (12 Volt)
	179 814	SCREW, hex-hd cap (2)
	103 320	WASHER, lock (2)

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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PUMP HOUSING AND COVER
 (International R.D. Fuel Injection Pump;
 (D-282 for 2004)



CE-112093

1	19 899 R1	NUT, gear hub lock	13	310 074 R1 110 488	COVER, pump housing top SCREW, slt-flt-hd mach (2)
2	345 032 R1	GASKET, gear hub	14	321 730 R1	SEAL, low idle screw
3	341 346 R1	HUB, gear	15	349 325 R1	SCREW, low idle
4	343 715 R91	SEAL, main shaft oil	16	310 125 R1	SCREW, pump housing top cover seal (2)
5	310 130 R2	PLATE, main shaft oil seal	17	279 673 R91	WIRE, seal
6	310 140 R1	"O" RING, main shaft oil seal plate	18	601 452 C11	HOUSING ASSY., pump (Composed of -
7	ST-681	BEARING, main shaft front ball			2 "O" RING 303 545 R1
8	278 347 R1	GASKET, injection pump			1 PLUG 9 410 358
9	40 329 DA	RIVET, identification plate (2)			2 RETAINER 312 594 R1
10	323 745 R1	PLATE, identification			2 SEAL 312 593 R1)
11	310 131 R1	RETAINER, main shaft front bearing	19	312 594 R1	RETAINER, control shaft seal (2)
12	310 128 R1	GASKET, pump housing top cover	20	312 593 R1	SEAL, control shaft (2)
			21	310 129 R1	COVER, torque adjusting screw

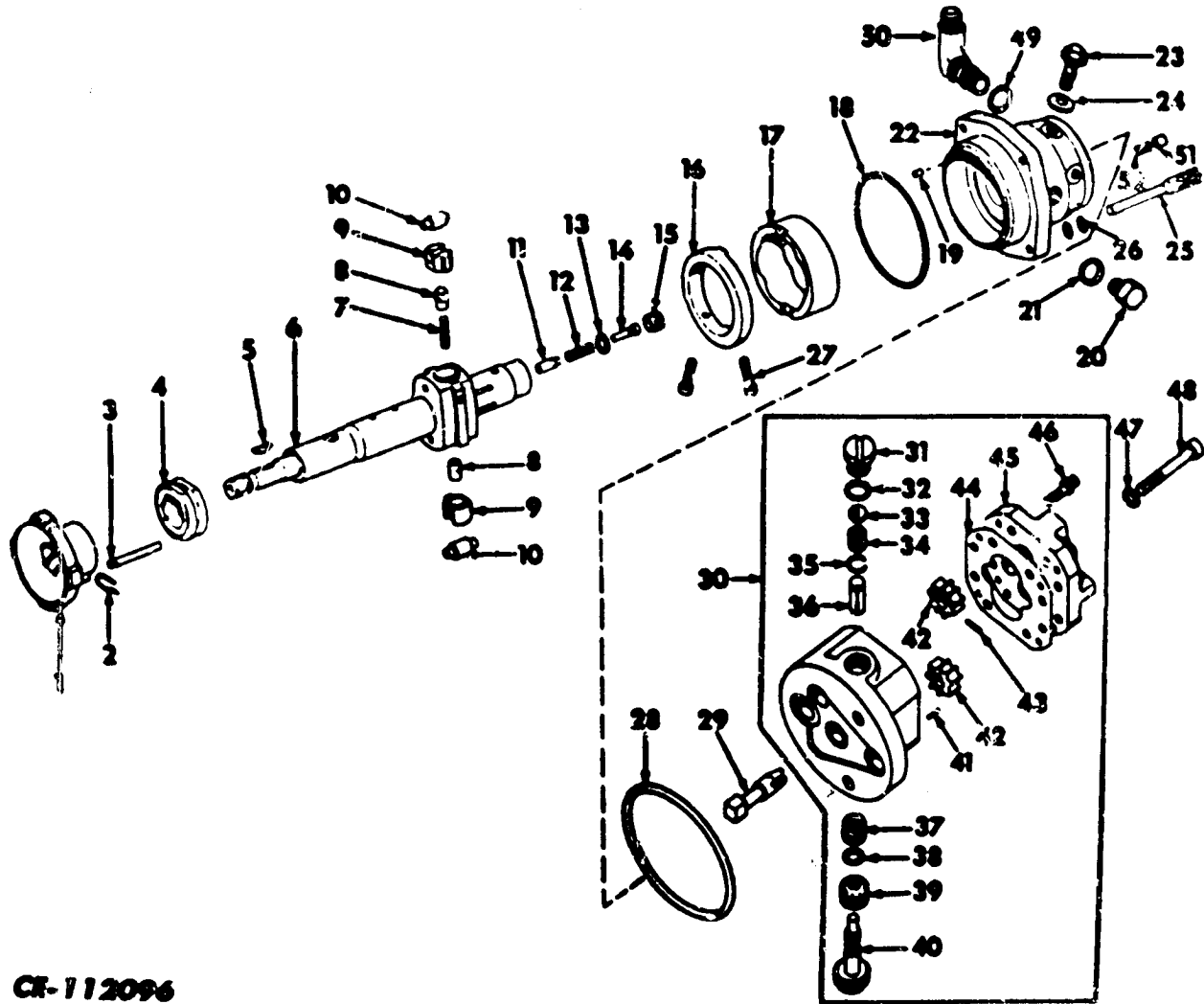
FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
PUMP HOUSING AND COVER - Continued (International R.D. Fuel Injection Pump) (D-782 for 2708)					
22	310 125 R1	SCREW, torque adjusting cover			
23	310 073 R1	RING, stop screw contact			
24	346 794 R1	ELBOW, 90° restricted 4844 and below			
24	610 206 C1	ELBOW, 90° inverted flair restricted 4845 and up			
25	349 081 R1	COVER, timing window (2)			
26	349 082 R91	SCREW w/SEAL, timing window cover (4)			
27	310 128 R1	GASKET, timing window cover (2)			
28	303 545 R1	"O" RING, housing plug			
29	9 410 358	PLUG, pump housing			
30	303 545 R1	"O" RING, housing plug (2)			
31	318 338 R1	PLUG, housing (2)			
32	147 114	SCREW, hex-soc-hd cap (3)			
33	312 589 R1	SEAL, plate screw (3)			
34	323 964 R1 23 879 R1	PLATE, timing SCREW, hex-soc-hd cap			
	332 374 R92	PACKAGE, fuel injection pump over- haul (Used w/International R.D. Pump) (Consists of -			
	312 593 R1	SEAL, control shaft (2)			
	221 730 R1	SEAL, low idle screw and timing window cover screw (5)			
	310 137 R1	SEAL, load adjusting screw			
	310 136 R1	SEAL, torque spring adjusting screw and recirculation valve (3)			
	310 135 R1	SEAL, maximum fuel stop and bumper spring screw (2)			
	59 624 D	GASKET, cam retainer screw and primary pump screw (4)			
	310 142 R1	SEAL, retraction valve retainer			
	318 335 R1	GASKET, fuel line fitting (16)			
	303 545 R1	SEAL, distributor head plug, pump housing plug and inlet fitting (3)			
	345 032 R1	GASKET, gear hub			
	310 128 R1	GASKET, pump housing top cover			
	310 128 R1	GASKET, timing window cover (2)			
	303 545 R1	SEAL, housing plug (2)			
	312 589 R1	SEAL, oil seal plate screw (3)			
	310 140 R1	GASKET, mainshaft oil seal plate			
	278 347 R1	GASKET, injection pump			

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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MAIN SHAFT, PRIMARY PUMP AND CONNECTIONS
 (International R. D. Fuel Injection Pump)
 (D-282 for 2706)



CF-112096

1	CUP, governor (Order MAIN SHAFT, 607 231 C11)			1 SPRING	607 291 C1
2	320 C33 R1 RETAINER, governor cup pin		610 324 C1	1 SPRING	607 392 C1
3	320 067 R1 PIN, governor cup		20 796 R1	1 VALVE	345 213 R91)
4	SLEEVE, timing (Order MAIN SHAFT, 607 231 C11)			PIN, governor shaft dowel	
5	124 543 KEY, Woodruff No. 3			PIN, phosphate coated roll (Pressed on ends of PIN, 610 324 C1) (2)	
6	607 231 C11 SHAFT ASSY., main (Order PIN, 610 324 C1, two PIN, 20 796 R1 and SHAFT, 607 237 C1) (Composed of -		7	607 392 C1	SPRING, plunger
	‡ 1 CUP		8		PLUNGER (Order MAIN SHAFT, 607 231 C11) (2)
	‡ 1 HEAD		9	349 326 R11	TAPPET ASSY. (2)
	‡ 2 "O" RING	310 136 R1	10	310 063 R1	ROLLER, tappet (2)
	‡ 1 PISTON	607 290 C1	11	318 351 R1	VALVE, retraction
	‡ 2 PLUNGER				
	‡ 1 SHAFT				
	‡ 1 SLEEVE				

‡ - Not Furnished Separately.

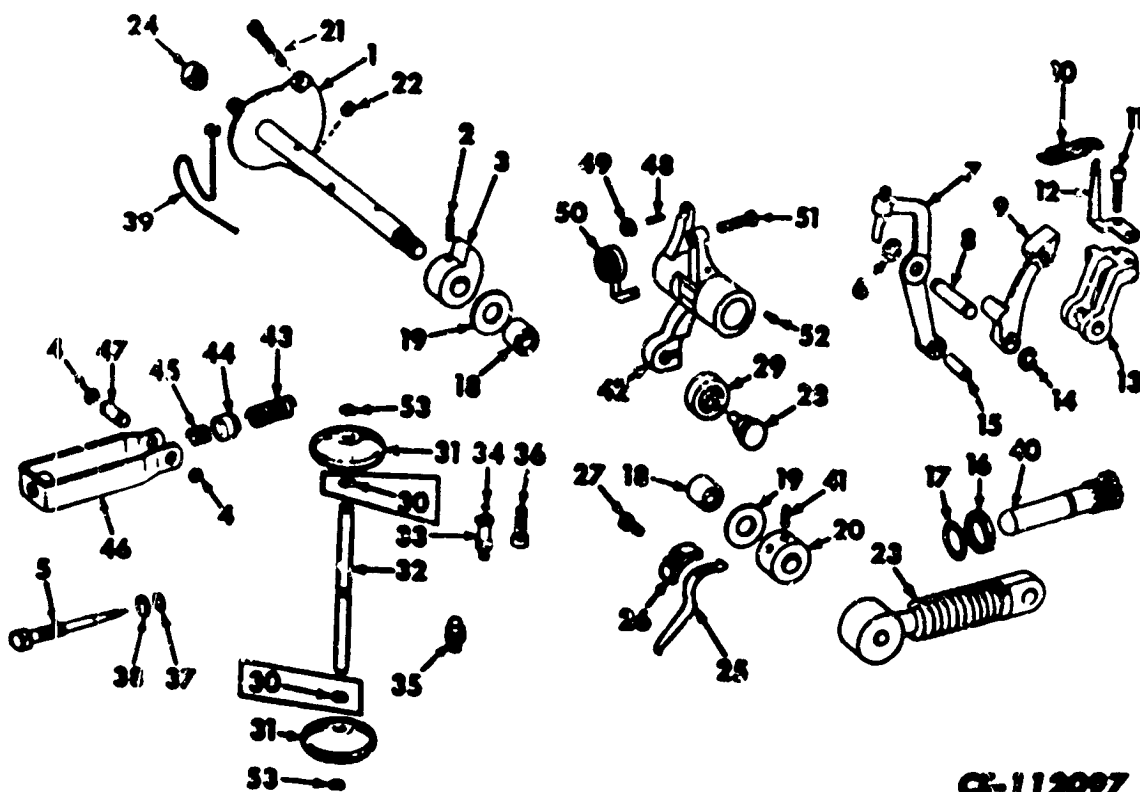
FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
MAIN SHAFT, PRIMARY PUMP AND CONNECTIONS -			40	347 534 R1	STEM
Continued (International R.D. Fuel Injection Pump) (D-282 for 2708)			41	865 298 R1	PIN, stem stop
12	310 058 R1	SPRING, retraction valve	42	347 529 R91	GEAR w/PIN ASSY. (Used for either Drive or Driven Gear) (2)
13	310 142 R1	SEAL, valve retainer	43	865 298 R1	PIN, shear
14	318 333 R1	STOP, retraction valve	44	347 530 R1	GASKET, plastic
15	318 349 R1	SCREW, traction valve	45	347 528 R1	CAP, end
16	318 332 R1	RETAINER, cam	46	347 533 R91	SCREW, twelve-pt. cap (6)
17	318 344 R1	CAM	47	59 624 D	GASKET, primary pump screw (2)
18	310 141 R1	"O" RING, distributor head	48	20 098 R1	SCREW, hex-socket hd cap (Primary pump mounting) (2)
19	318 413 R1	SCREW, distributor head bleed pump 28954 and below	49	303 545 R1	"O" RING, elbow
20	9 410 358	PLUG, distributor head	50	9 410 976	ELBOW, 37° flared tube adj. str. thd. 90°
21	303 545 R1	"O" RING, distributor head plug	51	607 290 C1	PISTON, surge (Also order SPRING, 607 291 C1)
22	179 797	HEAD, distributor (Order MAIN SHAFT, 607 231 C1) SCREW, hex-hd cap (4)	52	607 291 C1	SPRING, surge piston (Also order PISTON, 607 290 C1)
23	341 193 R1	SCREW, fuel line connecting (6)			
24	318 335 R1	GASKET, fuel line fitting (12)			
25	345 213 R91	VALVE w/"O" RING, 345 218 R1, fuel recirculation check			
26	310 136 R1	"O" RING, recirculation valve (2)			
27	601 206 C91	SEELBOLT, cam retainer (2)			
28	310 067 R1	"O" RING, primary pump			
29	310 068 R1	SHAFT, primary pump drive			
30	341 336 R91	PUMP ASSY., primary			
31	347 531 R1	CAP			
32	347 532 R1	"O" RING, cap			
33	347 541 R1	SHIM (.005") (x)			
33	347 539 R1	SHIM (.010") (x)			
33	347 542 R1	SHIM (.015") (x)			
33	347 540 R1	SHIM (.020") (x)			
34	347 537 R1	SPRING, relief valve			
35	268 552 R1	RING, plunger retaining			
36	347 536 R1	PLUNGER			
37	347 538 R1	SPRING, return			
38	352 219 R1	"O" RING, stem			
39	347 535 R1	BOCT, rubber			(x) - As Required.

FUEL SYSTEM

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GOVERNOR
(International R.D. Fuel Injection Pump)
(D-282 for 2708)



CE-112097

1	601 113 C12 181 315	SHAFT, control SCREW, hex-hd cap	15	20 686 R1	PIN, roll
2	20 683 R1	SCREW, hex-soc-hd set	16	310 036 R1	NUT, load adjusting screw
3	310 016 R2	CAM, control shaft	17	310 137 R1	SEAL, load adjusting screw
4	606 912 C1	"O" RING, governor spring yoke pin (2)	18	309 209 R91	BEARING, governor arm (2)
5	345 304 R2	SCREW, governor spring arm yoke guide	19	310 009 R1	WASHER, control shaft (2)
6	606 913 C1	RING, governor spring arm bracket pin	20	341 328 R1	SPACER, excess fuel spring
7	601 200 C11	LEVER w/PIN, 20 686 R1, shut-off	21	601 348 C1 115 998	SCREW, stop plate NUT, stop plate screw lock
8	601 201 C1	PIN, governor spring arm bracket	22	20 682 R1	SCREW, hex-soc-hd
9	341 332 R1	ARM, governor spring	23	601 115 C11	LEVER, control
10	320 065 R1	SPRING, shut-off lever	24	103 024	NUT, control shaft
11	20 680 R1	SCREW, hex-soc-hd cap (2)	25	345 308 R1	SPRING, excess fuel
12	320 066 R1	BRACKET, shut-off lever spring	26	341 329 R1	CLAMP, excess fuel spring
13	310 033 R1	BRACKET, governor spring arm	27	20 677 R1	SCREW, hex-soc-hd cap (Excess fuel spring clamp)
14	606 911 C1	RING, bracket pin thrust	28	320 060 R1	PIN, governor arm roller
			29	320 061 R1	ROLLER, governor arm

FUEL SYSTEM

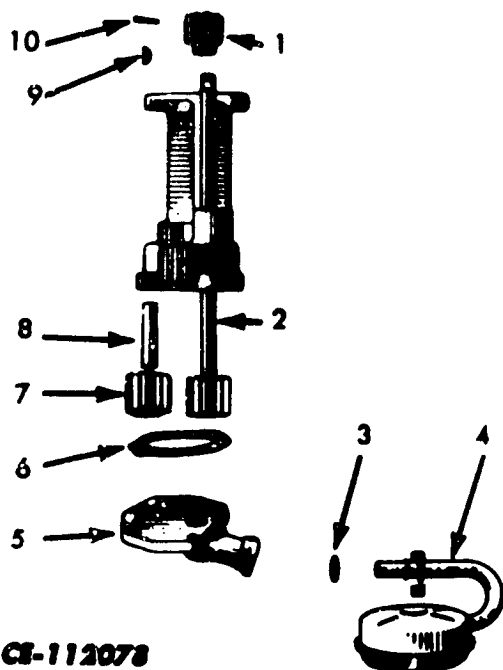
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GOVERNOR - Continued (International R.D. Fuel Injection Pump) (D-282 for 2708)					
30	608 910 C1	RING, governor weight snap (Used only w/SHAFT, 310 025 R1) (2)			
31	310 024 R2	WEIGHT, governor (2)			
32	310 025 R1	SHAFT, governor weight (Four grooves on shaft for snap rings)			
32	607 237 C1	SHAFT, governor weight (Two grooves on end of shaft for snap rings)			
33	332 372 R91	PIN w/RING, 608 909 C1, governor timing			
34	608 909 C1	RING, governor cup timing pin snap			
35		NOT USED			
36	20 678 R1	SCREW, hex-soc-hd cap (Governor arm)			
37	310 135 R1	"O" RING, governor spring screw			
38	446 153	WASHER, governor spring screw			
39	279 673 R91	WIRE, seal			
40	349 149 R1	SCREW, fuel load adjusting			
41	20 661 R1	SCREW, hex-soc-hd set			
42	601 106 C11	ARM, governor (Composed of -			
		2 BEARING	308 208 R91		
		1 PIN	20 685 R1		
		1 SCREW	601 108 C1		
		1 SEAT	601 108 C1		
		1 SPRING	601 107 C1		
		1 STUD	109 371)		
43	601 214 C1	SPRING, governor			
44	601 111 C1	SEAT, governor spring			
45	601 112 C1	SPRING, idle			
46	601 108 C11	YOKE, governor spring arm			
47	601 202 C1	PIN, governor spring arm			
48	20 685 R1	PIN, spring slotted			
49	601 108 C1	SEAT, governor arm spring			
50	601 107 C1	SPRING, temperature compensation			
51	601 108 C1	SCREW, governor arm			
52	109 371	STUD, drive			
53	610 379 C1	RING, weight shaft snap (2)			

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

(D-236 for H-30A, H-30B, H-30B-F and H-30B-R and D-282 for H-50A, H-50B and H-50C) - % and below (D-282 for 270E) - 51721 and below



5	379 138 R91	COVER w/SCREEN, oil pump (Order SCREEN, 308 367 R91, COVER, 169 679 R1, PIN, 137 195 and "O" RING, 352 221 R1) (C)
	179 817	SCREW, hex-hd cap (4)
	103 320	WASHER, lock (4)
6	69 607 R1	GASKET, oil pump body cover (x)
7	35 631 H	GEAR, oil pump body driven (A and B)
7	227 713 R1	GEAR, oil pump body driven (C)
8	35 647 H	SHAFT, idler gear
9	103 905	KEY, oil pump drive gear
10	112 011	PIN, sq. end straight

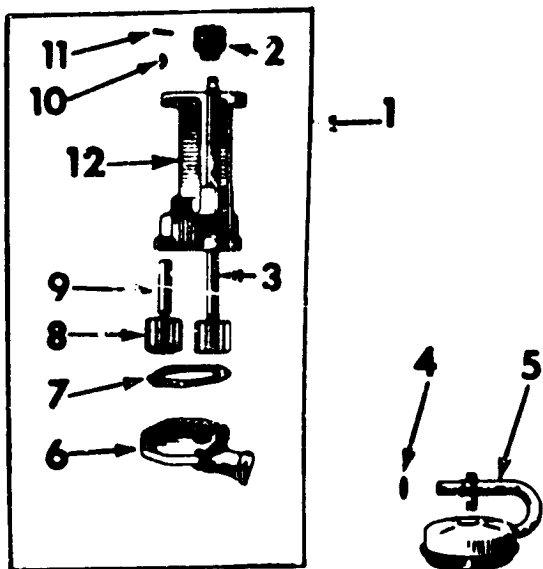
Parts without letters after the description indicates the part is used for all Oil Pump Assemblies listed below.

A	308 366 R91	PUMP ASSY., oil (Order PUMP ASSY., 230 421 R91) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R and D-282 for H-50A, H-50B and H-50C)
B	367 811 R91	PUMP ASSY., oil (Order PUMP ASSY., 230 421 R91) (D-236 for H-30A, H-30B, H-30B-F and H-30B-R and D-282 for H-50A, H-50B and H-50C)
C	379 138 R91	PUMP ASSY., oil (Order PUMP, 230 421 R91, SCREEN, 308 367 R91, PIN, 137 195 and "O" RING, 352 221 R1) (For all models)
	25 493 R1	SCREW, hex-hd cap (2)
	27 326 R1	WASHER, hardened (2)
		(Consists of the following parts -
1	69 608 R3	GEAR, oil pump drive
2	69 608 R11	SHAFT w/GEAR, oil pump drive (A and B)
2	230 409 R91	SHAFT w/GEAR, oil pump drive (C)
3	352 221 R1	"O" RING, oil pump screen (A)
4	308 367 R91	SCREEN, oil pump (A and B)

(x) - As Required.
(%) - Serial Number not available.

REF. NO.	PART NUMBER	DESCRIPTION
OIL PUMP		
(D-236 for H-30A, H-30B, H-30B-F and H-30B-R and D-282 for H-50A, H-50B and H-50C) - % and up		
(D-282 for 2706) - 51722 and up		
(D-236 for 3616 and D-282 for 2656, 3600A, 3600 and 3650) - 501 and up		

REF. NO.	PART NUMBER	DESCRIPTION
11	112 011	PIN, sq. end straight
12		BODY, oil pump (Not furnished separately)



ENGINE VARIATIONS

(All Models except H-50C)

5	308 367 R91 137 195	SCREEN, oil pump PIN, phosphate coated cotter
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(D-282 for H-50C)

5	678 210 C1 137 195	SCREEN, oil pump PIN, phosphate coated cotter
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CE-96259A

1	230 421 R91	PUMP ASSY., oil (Will work for PUMP ASSY., 308 368 R91 and 367 811 R91 and together with SCREEN, 308 367 R91, PIN, 137 195 and "O" RING, 352 221 R1, will work for PUMP ASSY., 379 138 R91)
	26 493 R1	SCREW, hex-hd cap (2)
	27 326 R1	WASHER, med. lock (2)
2	69 608 R3	GEAR, oil pump drive
3	230 409 R91	SHAFT w/GEAR, oil pump drive
4	352 221 R1	"O" RING, oil pump screen
5		(See Individual Engine Variations)
6	169 679 R1	COVER, oil pump body
	179 818	SCREW, hex-hd cap (4)
	103 320	WASHER, med. lock (4)
7	69 607 R1	GASKET, oil pump cover
8	227 713 R1	GEAR, pump body driven
9	35 647 H	SHAFT, idler gear
10	103 905	KEY, Woodruff, No. 5

(%) - Serial Number not available.

LUBRICATION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
LUBRICATING OIL FILTER					
(Cartridge Type)					
(D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 1221 to 6666					
(D-236 for 3816) - 10026 and below					
(D-262 for H-80A, H-80B and H-80C) - 1137 to 8875					
(D-262 for 2706) - 46441 to 67799					
	304 003 R91	FILTER ASSY., oil		179 840	SCREW, 1-1/4" long hex-hd cap (3)
				179 866	SCREW, 2" long hex-hd cap
				138 225	SCREW, 1-3/4" long hex-soc-hd cap (2)
				103 322	WASHER, lock (4) (Consists of the following parts except Ref. Nos. 17, 20, 21 -
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, 5/32 x 1" (By-pass valve and spring retainer)
2			3	304 008 R1	VALVE, by-pass
3			4	304 009 R1	SPRING, by-pass valve
4			5	304 012 R1	GASKET, center tube
5			6	103 364	PIN, 1/16 x 1-1/8" cotter
6			7	303 998 R1	CASE, lubricating oil filter
7			8	304 011 R1	SPRING, element hold down
8			9	304 010 R1	WASHER, element retainer
9			10	304 854 R1	GASKET, oil filter case
10			11	323 827 R91	PACKAGE, lubricating oil filter element service
11			12	61 261 VA	VALVE, relief
12			13	49 946 HA	SPRING, relief valve
13			14	3 405 H	GASKET, relief valve plug
14			15	61 263 VA	PLUG, relief valve
15			16		BASE, lubricating oil (Not furnished separately)
16			17	349 039 R1	GASKET, lubricating oil filter base (Not furnished as part of FILTER ASSY.)
17			18		BASE ASSY. (Consists of Ref. 12 to 16 and PLUG, 445 686)
18			19	320 285 R11	BASE ASSY. (Consists of Ref. 12 to 16 and PLUG, 445 686)
19			20		VALVE, oil pressure regulating (Not furnished as part of FILTER ASSY.) (Refer to "Crankcase and Related Parts")
20			21		"O" RING, oil pressure regulating valve (Not furnished as part of FILTER ASSY.) (Refer to "Crankcase and Related Parts")
				445 686	PLUG, oil filter base

LUBRICATION

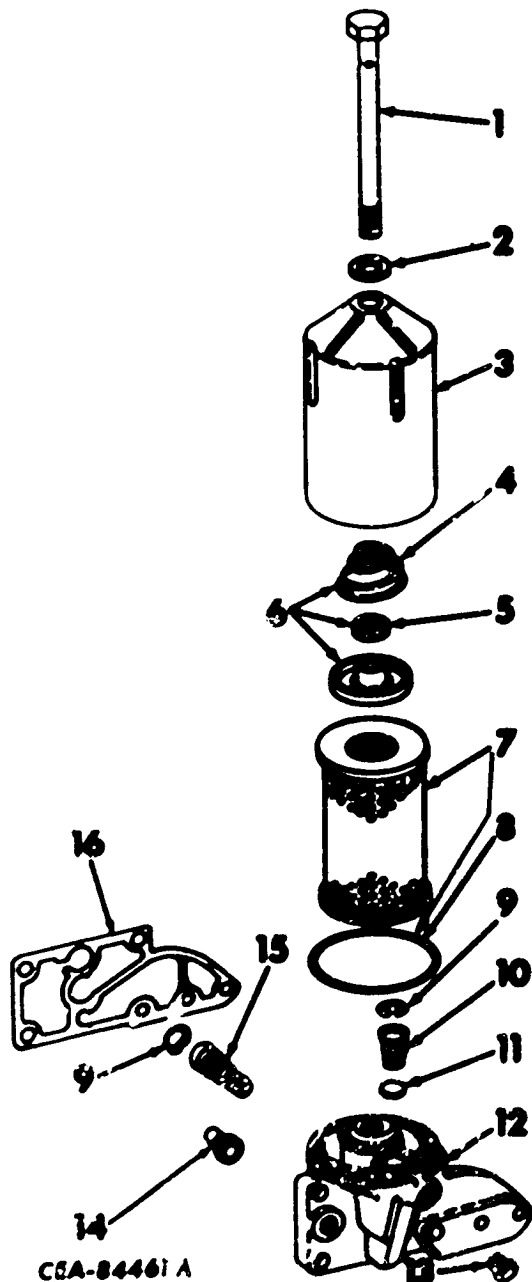
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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LUBRICATING OIL FILTER

(Cartridge Type)
 (D-236 for H-30A, H-30B, H-30B-F and H-30B-R) - 6566 and up
 (D-236 for 7616) - 16027 and up
 (D-282 for H-50A, H-50B and H-50C) - 8976 and up
 (D-282 for 2656) - $\frac{1}{2}$ and below
 (L-282 for 2706) - 67900 and up

601 786 C91 70 427 R1 203 762 R1 21 110 R1 26 272 R1	FILTER ASSY., lubricating oil SCREW, 1-1/4" long hex-hd cap (3) SCREW, 2" long hex-hd cap SCREW, 1-3/4" long hex-roc-hd cap (2) WASHER, hardened (3) (Consists of the following parts except Ref. Nos. 14 and 16 -
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	384 630 R11 384 532 R1 384 529 R1 384 536 R1 384 535 R1 384 533 R91 323 827 R91 304 854 R1 303 322 R1 384 525 R1 384 528 R2 601 789 C11 444 618 VALVE, oil pressure regulating (Not furnished as part of FILTER ASSY.) (Refer to "Crankcase and Related Parts") 384 527 R1 601 790 C1 445 673	TUBE, oil filter center GASKET, center tube CASE, oil filter SPRING, element hold down GROMMET, element retaining washer RETAINER ASSY., element PACKAGE, lubricating oil filter element service GASKET, oil filter case RING, snap (2) SPRING, check valve VALVE, oil filter base BASE w/PLUG, 445 673, oil filter PLUG, 1/4" automotive hex-hd pipe VALVE, oil pressure regulating (Not furnished as part of FILTER ASSY.) (Refer to "Crankcase and Related Parts") SPRING, element by-pass GASKET, oil filter base (Not furnished as part of FILTER ASSY.) PLUG, oil filter base
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(%) - Serial Number not Available.

LUBRICATION

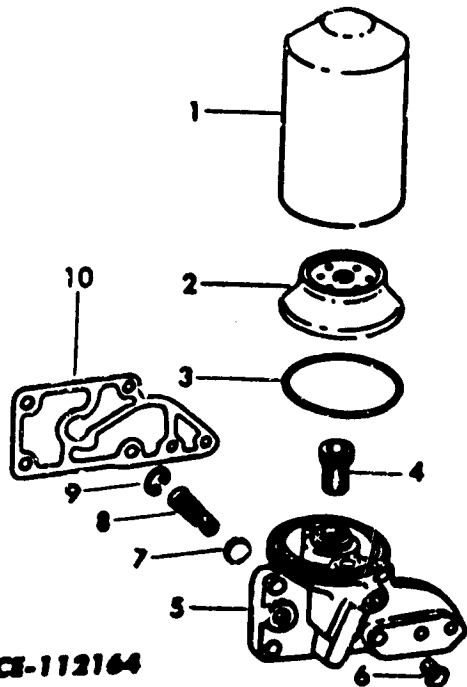
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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LUBRICATING OIL FILTER

(Spin-On Type)

(D-282 for 2956) - % and up

(D-282 for 3600A, 3600 and 3850) - 501 and up



674 085 C91 FILTER ASSY., lubricating oil
 138 725 SCREW, 1-3/4" long soc-hd cap
 (2)
 179 860 SCREW, 1-1/4" long hex- hd cap
 (3)
 179 866 SCREW, 2" long hex-hd cap
 103 322 WASHER, med. lock (4)
 (Consists of the following parts
 except Ref. No. 10 -

1	675 616 C91	ELEMENT, oil filter
2	397 866 R1	ADAPTER, spin-on oil filter
3	304 854 R1	GASKET, oil filter adapter
4	397 867 R1	BOLT, filter base adapter
5	601 799 C11	BASE w/PLUG, 445 673, oil filter
6	444 618	PLUG, auto. hex-hd drain
7	384 528 R2	VALVE, oil filter base (2)
8	384 527 R1	SPRING, element by-pass
9	303 322 R1	RING, snap
10	601 790 C1	GASKET, oil filter base (Not furnished as part of FILTER ASSY.)
	445 673	PLUG, sq-hd pipe

% - Serial Number not available.

LUBRICATION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ENGINE OIL COOLER			(D-238 for 3616) (D-282 for 3600 and 3650)		
			4	321 878 R1	HOSE, oil cooler water inlet
			7	304 945 R1	SPACER, oil cooler manifold
			7	349 038 R1	GASKET, oil cooler manifold (2)
			13	305 206 R1	HOSE, oil cooler water outlet
			(D-238 for H-30A, H-30B, H-30B-F and H-30B-R) (D-282 for H-50A, H-50B and H-50C)		
			4	321 878 R1	HOSE, oil cooler water inlet
			7	349 038 R1	GASKET, oil cooler manifold
			13	315 129 R1	HOSE, oil cooler water outlet (All models except H-50B w/High Mounted Fan)
			13	305 206 R1	HOSE, oil cooler water outlet (For H-50B w/High Mounted Fan)
1	320 182 R1	CONNECTOR, water inlet hose	(D-282 for 3600A)		
2	320 275 R1	ELBOW, water outlet hose	4	673 820 C1	HOSE, oil cooler water inlet
3	274 085 R91	CLAMP, water hose (4)	7	349 038 R1	GASKET, oil cooler manifold
		(See Individual Engine Variation)	13	337 393 R1	HOSE, oil cooler water outlet
5	279 212 R91	COOLER, engine oil			
	25 520 R1	NUT, hex (4)			
	27 326 R1	WASHER, med. lock (4)			
6	350 684 R1	"O" RING, oil cooler to manifold (2)			
7		(See Individual Engine Variation)			
8	251 400 R1	VALVE, oil cooler relief			
9	279 163 R1	SPRING, oil cooler relief valve			
10	251 403 R1	GASKET, relief valve plug			
11	251 402 R1	PLUG, relief valve			
12	279 160 R11	MANIFOLD ASSY., engine oil cooler			
13		(See Individual Engine Variation)			

ENGINE VARIATIONS

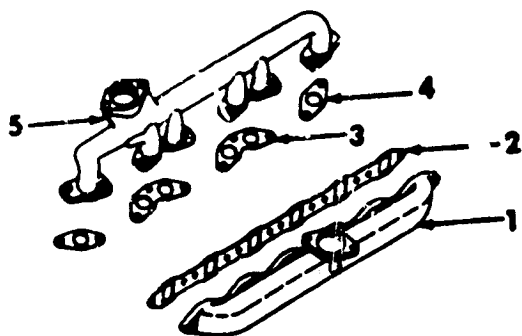
(D-282 for 2656 and 2706)

4	321 878 R1	HOSE, oil cooler water inlet
7	349 038 R1	GASKET, oil cooler manifold
13	305 206 R1	HOSE, oil cooler water outlet

MANIFOLD

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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INTAKE AND EXHAUST MANIFOLD



CS-112099

1	332 110 R11 101 896 R; 25 896 R1 445 684	MANIFOLD w/PLUG, 445 684, intake SCREW, hex-hd cap (12) WASHER, med. lock (12) PLUG, sq-hd pipe
2	305 804 R1	GASKET, intake manifold
3	278 314 R1	GASKET, exhaust manifold center (2)
4	278 313 R2	GASKET, exhaust manifold end (2)
5	278 643 R2 39 524 DA 113 934 H	MANIFOLD, exhaust NUT, exhaust manifold (10) WASHER, exhaust manifold (10)
362 120 R1		CLIP (At intake manifold front mounting bolt) (D-282 for 3600A)

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684 729 C1	3 - 2	1 857 268	9 - 8	1 915 265	9 - 12	1 942 245	9 - 10
684 067 C1	6 - 8	1 857 412	9 - 15	1 915 265	9 - 15	1 942 250	9 - 10
701 021 C91	11 - 5	1 858 603	9 - 12	1 915 668	9 - 7	1 942 253	9 - 10
701 127 C91	11 - 10	1 858 603	9 - 14	1 915 896	9 - 14	1 942 253	9 - 10
701 128 C92	5 - 5	1 858 749	9 - 12	1 915 896	9 - 20	1 942 259	9 - 10
701 331 C92	5 - 2	1 858 749	9 - 14	1 915 897	9 - 8	1 943 225	9 - 11
701 331 C93	5 - 5	1 858 753	9 - 13	1 916 324	9 - 12	1 943 386	9 - 10

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NEW AND DISPLACED PARTS LIST

NOTE: This list is prepared to assist distributor parts personnel in keeping their inventory records current.

The information on this sheet will not be covered in future revisions, so you may want to retain this copy. Future revisions will include new and displaced parts information for that revision only.

New and displaced parts listed below are new and displaced parts for applications shown on pages listed for this machine, not necessarily new and displaced for other applications for this machine or in the IH system.

D-236 for H-30A, H-30B, H-30B-F and H-30B-R and D-282 for H-50A, H-50B and H-50C Only
 The following is a list of new and displaced parts for the Model Parts Catalog, Form EPC-236/282 released since PMD-236-1 dated August, 1974.

PAGE NO.	NEW PART NUMBER	DISPLACED PART NUMBER	PAGE NO.	NEW PART NUMBER	DISPLACED PART NUMBER
6-2	538 983 R1	403 066 R91	9-14	1 922 701	1 942 891
9-6	453 479	132 926	9-14	1 939 902	1 912 725
9-6	453 463	132 892	9-14	1 953 882	1 871 693
9-6	453 435	120 217	9-14	1 923 284	1 921 369
9-6	453 464	132 908	9-14	1 858 749	1 921 860
9-6	453 435	453 288	9-15	1 914 816	1 904 377
9-6	1 908 987	1 908 958	9-15	9 421 423	120 380
9-7	1 926 967	1 931 814	9-15	1 915 265	1 888 439
9-7	1 950 069	1 837 533	9-15	1 914 579	1 904 661
9-7	1 952 583	1 912 059	9-15	9 421 424	120 638
9-7	1 960 244	1 927 344	9-15	1 915 172	1 911 324
9-7	1 946 143	1 904 815	9-15	1 914 580	1 904 370
9-7	453 468	132 903	9-15	453 460	132 688
9-7	1 922 876	.....	9-15	1 913 960	1 843 646
9-7	1 961 656	1 938 409	9-15	826 319	1 881 409
9-7	1 962 276	1 860 781	9-15	125 609	1 880 641
9-7	453 463	1 933 747	9-16	1 964 682	1 954 862
9-7	1 913 960	1 843 646	9-16	1 959 523	.....
9-7	9 421 424	120 214	9-16	9 419 392	.....
9-7	1 914 842	833 602	9-18	1 915 896	1 878 467
9-8	809 763	1 931 812	9-18	1 944 590	1 922 403
9-8	1 931 783	826 462	9-18	1 914 816	1 904 377
9-8	1 914 673	1 913 534	9-21	1 943 386	9 418 115
9-8	453 465	125 947			
9-8	453 435	132 119			
9-8	453 339	113 183			
9-8	1 950 029	805 790			
9-8	1 916 439	1 909 560			
9-9	1 877 355	1 841 157			
9-11	1 916 439	.....		
9-11	1 947 350	.....		
9-11	1 916 439	.....		
9-11	1 872 678	.....		
9-11	1 955 994	.....		
9-11	1 933 999	.....		
9-14	1 953 880	1 939 857			
9-14	1 944 373	1 878 183			
9-14	1 908 829	1 916 324			
9-14	1 925 378	1 922 288			
9-14	1 925 379	1 922 289			

For ordering procedure for displaced part shown, refer to this catalog.

Detail parts for this assembly or attachment are all new and are listed on the page shown in this revision.