

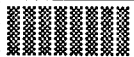
MODEL DT-414, DT-414B,
D-466, DT-466, DT-466B,
DT-466C and DTI-466C

ENGINES USED IN ALL
CONSTRUCTION EQUIPMENT
DIVISION APPLICATIONS

FORM
1128 173 H1

JUNE 1986

REPLACES:
EPC-D400
EPC-400-6
EPC-400B-4
CGEP-1000-4
1171 582 R2

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INTRODUCTION

GENERAL

This catalog lists service parts for the engines shown on the following page.

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.

Construction Equipment Division reserves the right to make changes or add improvements at any time without incurring any obligation to install such changes on products previously sold.

ILLUSTRATIONS

Illustrated items are given reference numbers which correspond to the same number in the parts list. Reference numbers may point to more than one identical item. The quantity of items shipped will depend on the quantity ordered. Illustrations are of typical parts only.

METHODS OF LISTING

(1) **ASSEMBLIES.** When possible, parts of an assembly will be shown under the assembly number at the head of the list or in the illustration by a bracket.

When several similar assemblies or attachments are shown in the same parts list, the assembly or attachment will be shown at the head of the list and identified by letters "A", "B", "C", etc. Individual parts will be tied to their respective assembly by the same identifying letters which follow their descriptions. Parts without identifying letters are common to all assemblies.

(2) **QUANTITIES.** The quantity of each part follows its description. Quantities of assemblies indicate the number of assemblies per engine.

(3) **SYMBOLS.** The following symbols will be used. The meanings of the symbols are as follows:

- NSS - Indicates parts which are not individually available as service parts. Such parts are available only as part of an assembly, kit, package or attachment.
- # - Product identification number not available.
- AR - As required. Used when quantities are variable.

Other symbols may be used throughout the catalog. In each case, an explanation of the symbol will be given.

(4) **COMMON HARDWARE.** Mounting hardware to include clamps, clips, bolts, nuts, cotter pins and so forth is not illustrated. Instead, it is listed beneath the items attached.

NOTE. Hardware parts with six or seven digit, C1, H1 or R1 part numbers are designed for a specific use and must not be replaced with common hardware.

INTRODUCTION

ORDERING PARTS

When ordering parts, always give the following information:

- (a) The complete part number, including prefix or suffix letters, the name of the part and the quantity required.
- (b) The complete engine serial number including the Kind, Variation and Country of Origin codes and the serial number.
- (c) We recommend that you write the serial number of your engine in the space provided below.

ENGINE SERIAL NUMBER _____

INTRODUCTION

ALPHABETICAL INDEX

Description	Page No.	Fiche Grid No.
Air Compressor -----	16-025	
Air Compressor Piping -----	16-003	
Alternator - 24V-45AMP -----	09-021	
Alternator - 24V-50AMP -----	09-015	
Alternator - Delco-Remy -----	09-027	
Alternator and Cranking Motor Connections -----	09-003	
Alternator Belt -----	09-005	
Bearings, Camshaft -----	06-007	
Bearings, Crankshaft -----	07-003	
Belt, Air Compressor -----	16-005	
Belt, Alternator -----	09-005	
Belt, Fan -----	05-037	
Breather, Engine -----	17-005	
Camshaft -----	03-003	
Connecting Rod -----	04-003	
Coolant Filter -----	05-041	
Cooler, Lubrication Oil -----	13-013	
Crankcase -----	06-003	
Crankcase Ventilation - Crankcase Mounted -----	17-003	
Crankcase Ventilation - Valve Cover Mounted -----	17-005	
Cranking Motor - Delco-Remy -----	09-039	
Crankshaft -----	07-003	
Cylinder Head -----	08-003	
Cylinder Sleeve -----	04-003	
Damper, Vibration -----	07-003	
Electric Shut-off and Mounting - Injection Pump -----	11-129	
Element, Coolant Filter -----	05-041	
Engine Coolant Heater -----	16-057	
Engine Mount, Front -----	10-003	
Engine, Replacement Service -----	02-002	
Engine, Skeleton Service -----	02-003	
Exhaust Manifold -----	14-003	
Fan Belts -----	05-037	
Fan Drive -----	05-003	
Filter, Coolant -----	05-041	
Filter, Fuel -----	11-003	
Filter, Lubricating Oil -----	13-011	
Flywheel -----	07-003	
Flywheel Housing -----	10-003	
Front Cover -----	06-031	
Front Engine Mount -----	10-003	
Fuel Filter -----	11-003	
Fuel Filter -----	11-105	
Fuel Injection Pump - Camshaft -----	11-093	
Fuel Injection Pump - U.T.D.S. -----	11-069	
Fuel Injection Pump and Piping -----	11-003	
Fuel Injection Pump and Piping - R.Bosch -----	11-105	
Fuel Supply Pump -----	11-149	

INTRODUCTION

A L P H A B E T I C A L I N D E X

Description	Page No.	Fiche Grid No.
Gasket, Breather Cover -----	06-005	
Gasket, Crankcase -----	06-007	
Gasket, Cylinder Head -----	08-007	
Gasket, Front Cover -----	06-033	
Gasket, Oil Pan -----	06-009	
Gasket Sets -----	01-003	
Gauge, Oil Level -----	06-009	
Governor -----	11-141	
Head, Cylinder -----	08-003	
Heater, Engine Coolant -----	16-057	
Idler Gear and Shaft -----	03-003	
Idler Pulley -----	05-037	
Idler Shaft -----	05-037	
Injection Pump - R. Bosch -----	11-131	
Injection Pump Access Cover -----	16-055	
Injection Pump Drive -----	11-003	
Injection Pump Drive -----	11-105	
Injection Pump, Fuel - Camshaft -----	11-093	
Injection Pump, Fuel - U.T.D.S. -----	11-069	
Injector -----	11-003	
Injector -----	11-105	
Intake and Exhaust Manifold -----	14-003	
Intercooler and Connections - Turbocharger -----	15-037	
Lubricating Oil Filter -----	13-011	
Lubricating Oil Pump -----	13-003	
Manifold, Intake and Exhaust -----	14-003	
Motor, Cranking - Delco-Remy -----	09-039	
Nozzle and Nozzle Holder -----	11-151	
Oil Cooler and Connections -----	13-013	
Oil Level Gauge -----	06-009	
Oil Pan -----	06-009	
Piston and Rings -----	04-003	
Pulley, Idler -----	05-037	
Pump, Fuel Injection - Camshaft -----	11-093	
Pump, Fuel Injection - U.T.D.S. -----	11-069	
Pump, Fuel Supply -----	11-149	
Pump, Injection - R. Bosch -----	11-131	
Pump, Lubricating Oil -----	13-003	
Pump, Water -----	05-003	
Pushrod -----	03-003	
Rings, Piston -----	04-003	
Rocker Arms -----	08-003	
Rod, Connecting -----	04-003	
Service Recorder -----	16-043	
Shaft, Idler -----	05-037	
Sleeve, Cylinder -----	04-003	
Solenoid Switch -----	09-075	
Tachometer Drive -----	16-043	

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ALPHABETICAL INDEX

Description	Page No.	Fiche Grid No.
Tappet -----	03-003	
Thermostat -----	05-003	
Turbocharger -----	15-021	
Turbocharger - Airesearch -----	15-017	
Turbocharger Piping -----	15-003	
Valve Cover -----	08-003	
Vibration Damper -----	07-003	
Water Pump -----	05-003	

INTRODUCTION

QUICK REFERENCE FOR MAINTENANCE ITEMS and PACKAGES

625 627 C1 Fuel Filter, Primary -
702 255 C1 Fuel Filter, Primary (Water Separator)
672 603 C2 Fuel Filter, Final
675 616 C91 Lube Oil Filter
1207 605 H1 Coolant Conditioner Filter
687 018 C2 Thermostat
615 175 C91 Thermostat Seal
678 527 C1 Rear Oil Seal and Wear Sleeve Package (Double Lip)
691 631 C91 Rear Oil Seal and Wear Sleeve Package (Single Lip)
690 437 C92 Front Oil Seal and Wear Sleeve Package
687 161 C92 Water Pump Seal Package
680 086 C1 Cylinder Sleeve "O" Ring Package
680 333 C92 Cylinder Sleeve Shim Package
1808 973 C91 Cylinder Head Gasket Package
674 399 C91 Crankcase Gasket Package
680 084 C93 Front Cover Gasket Package
680 117 C1 Camshaft Bearing Package
71 151 C91 Engine Coolant Heater (1250W, 120V)

INTRODUCTION

GALION

<u>APPLICATION</u>	<u>ENGINE</u>	<u>APPLICATION</u>	<u>ENGINE</u>
H-65C	DT-414	LQ-157	D-466
E-200	DT-414	LQ-157A	D-466
530	DT-414	LQ-158	DT-466
530	DT-414B	LQ-158A	DT-466B
530	DT-466C	LQ-159	D-466
TD-12	D-466	LQ-161A	DT-466
TD-12	DT-466B	LQ-161B	DT-466B
TD-15C	DT-466	LQ-163	D-466
TD-15C	DT-466B	LQ-165	D-466
TD-15C	DT-466C	LQ-165A	D-466
H-80B	DT-466C	LQ-166A	DT-466B
H-80B	DT-466B	LQ-166B	DT-466B
175C	DT-466	LQ-167	D-466
175C	DT-466B	LQ-167A	D-466
175C	DT-466C	LQ-168	DT-466B
412	DT-466	LQ-170	DT-466B
412	DT-466B	A400E	D-466
412B	DT-466B	S450E, S500E	D-466
433/444	DT-466	A450E, A500E	D-466
433B/444B	DT-466B	A550, A556	DT-466B
540	DT-466B	A560E, A566E	DT-466B
540	DTI-466C	A600, A606	DT-466C

INTRODUCTION

SERIAL NUMBERS

Engine Type	Engine Model Code (Kind)	Variation Code	Country of Origin	Serial Sequence Number
X DT-414 TURBOCHARGED	414	TH2 TS2	U (U.S.A.)	000501
DT-414B TURBOCHARGED	415	TH2	U (U.S.A.)	140001
D-466 NATURALLY-ASPIRATED	466	DU2 DC2	U (U.S.A.)	000501
DT-466 TURBOCHARGED	466	TH2 TC2 TU2 TS2	U (U.S.A.)	000501
DT-466B TURBOCHARGED	467	TH2 TC2 TU2 TS2	U (U.S.A.)	075001
DT-466C TURBOCHARGED	468	TC2 TU2 TH2	U (U.S.A.)	400001
DTI-466C TURBOCHARGED INTERCOOLED	468	BH2	U (U.S.A.)	400001

Usually only sequence numbers without preceding zero(es) are shown in the parts list. When necessary, Country of Origin and Variation Codes may also be shown, in which case the preceding zero(es) of the sequence number will be included.

Variation Code Example:

T = Turbocharged	H2 = Rubber Tired Loader
D = Naturally Aspirated	C2 = Crawler Tractor
B = Turbocharged and Intercooled	S2 = Scraper
	U2 = Galion

The engine serial numbers are stamped on the upper left hand side of the engine crankcase below the intake manifold.

INTRODUCTION

MEMORANDA

ENGINES

REPLACEMENT SERVICE ENGINES

Engine Model	Description	Engine Part Number
D-466	Engine, Replacement for TD-12 (125 HP @ 2400 RPM)	1216 124 H91
DT-466B	Engine, Replacement for TD-12 (125 HP @ 2400 RPM)	1216 125 H91
DT-466C	Engine, Replacement for TD-15C (153 HP @ 2500 RPM)	1218 742 H91
DT-466C	Engine, Replacement for 175C (146 HP @ 2400 RPM)	1218 738 H91
DT-466B	Engine, Replacement for 412B (180 HP @ 2500 RPM)	1218 741 H91
DT-466C	Engine, Replacement for 530 (165 HP @ 2500 RPM)	1218 739 H91
DTI-466C	Engine, Replacement for 540 (215 HP @ 2500 RPM)	1218 740 H91

All Engines are less starter, Alternator and Air Compressor.

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

ENGINES

SKELETON SERVICE ENGINE (See NOTE)

Consists of:

Camshaft, Camshaft Gear and Idler Gear

Connecting Rods and Bearings

Crankcase, Front Cover Plate and Plate Gasket

Crankcase, Main Bearing Caps and Piston Cooling Jets

Crankshaft and Bearings, Crankshaft Gear, Oil Pump Spline

Crankshaft Front Oil Seal

Cylinder Sleeves and "O" Rings

Lube Oil Pressure Regulating Valve, "O" Ring Cap Gasket and Cap

Piston and Rings

Tappets

ENGINE	ENGINE PART NUMBER
DT-414 DT-414B	674 958 C94 (+)
D-466	674 961 C94
DT-466	674 962 C95 (+)
DT-466B DT-466C DTI-466C	687 203 C95 (+)

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

(+) - Requires engine be equipped with valve cover mounted breather. Refer to sections 8 and 17 for component parts.

ENGINES

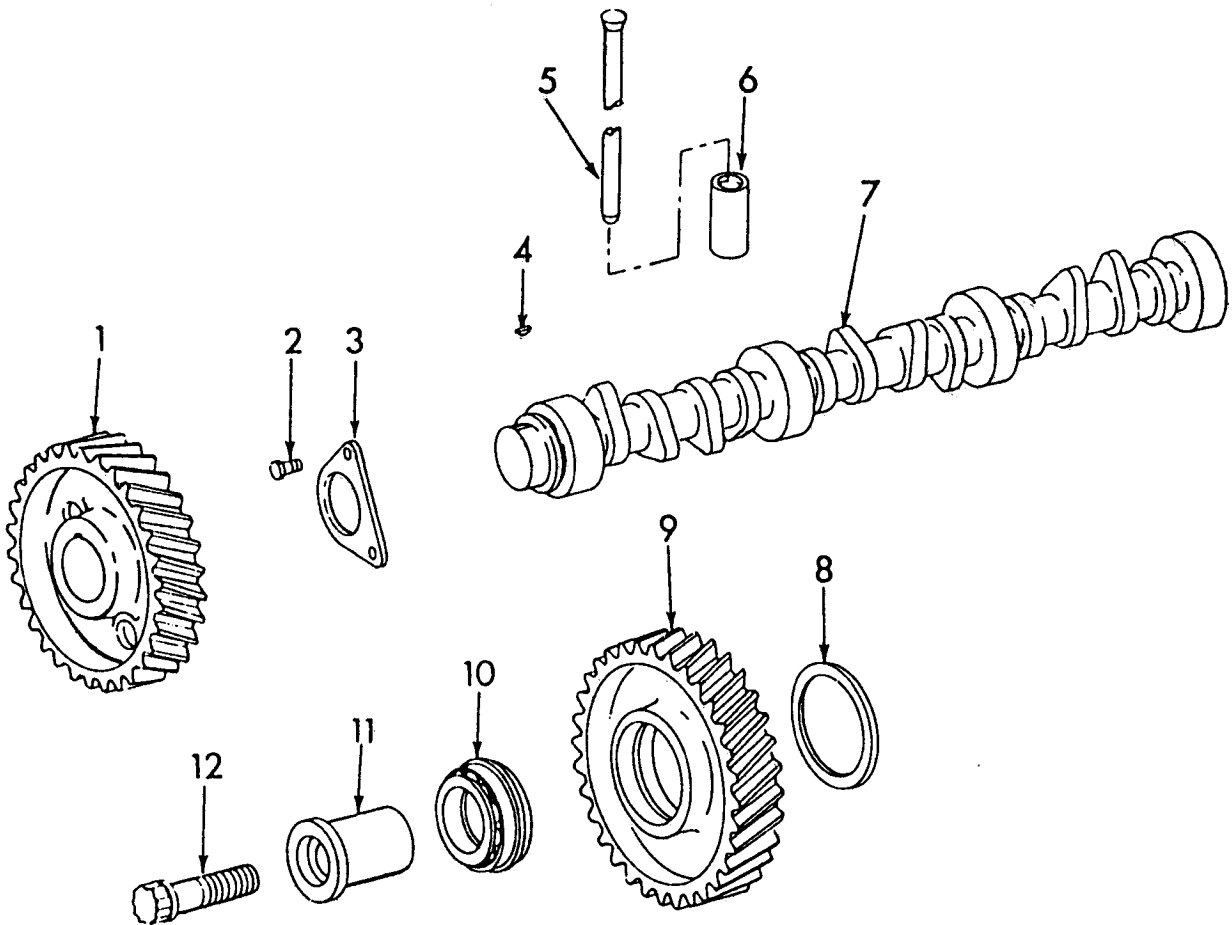
MEMORANDA

CAMSHAFT

03

CAMSHAFT

CAMSHAFT, TAPPET AND PUSHROD, IDLER GEAR AND SHAFT



CG-8585

CAMSHAFT

Ref No	Part Number	Description	Quantity
CAMSHAFT, TAPPET AND PUSHROD, IDLER GEAR AND SHAFT			
1	675 600 C1	GEAR, camshaft (66 teeth)-----	1
2	9409 011	BOLT, camshaft thrust plate-----	2
3	676 144 C1	PLATE, camshaft thrust-----	1
4	218 211	KEY, Woodruff-----	1
5	675 621 C1	ROD, valve push -----	12
6	911 776 R3	TAPPET, valve (+)----- (DT-414 and DT-414B - 155805 and below) (DT-466 and DT-466B - 140086 and below) (D-466 # and below)	12
	1802 340 C1	TAPPET, valve (+)----- (DT-414B - 155806 and up) (DT-466B - 140087 and up) (D-466 # and up) (All DT-466=C and DTI-466C)	12
7	1802 506 C91	PACKAGE, camshaft service----- Consists of:	1
	NSS	CAMSHAFT-----	1
	675 600 C1	GEAR-----	1
	218 211	KEY-----	1
	676 144 C1	PLATE-----	1
8	675 767 C1	SPACER, idler gear-----	1
9	675 764 C1	GEAR, idler (77 teeth)-----	1
10	327 185 R91	BEARING, idler gear-----	1
11	675 765 C1	SHAFT, idler gear-----	1
12	676 588 C1	BOLT, idler gear shaft-----	1

(+) - Ref. Service Bulletin 12D-81-01

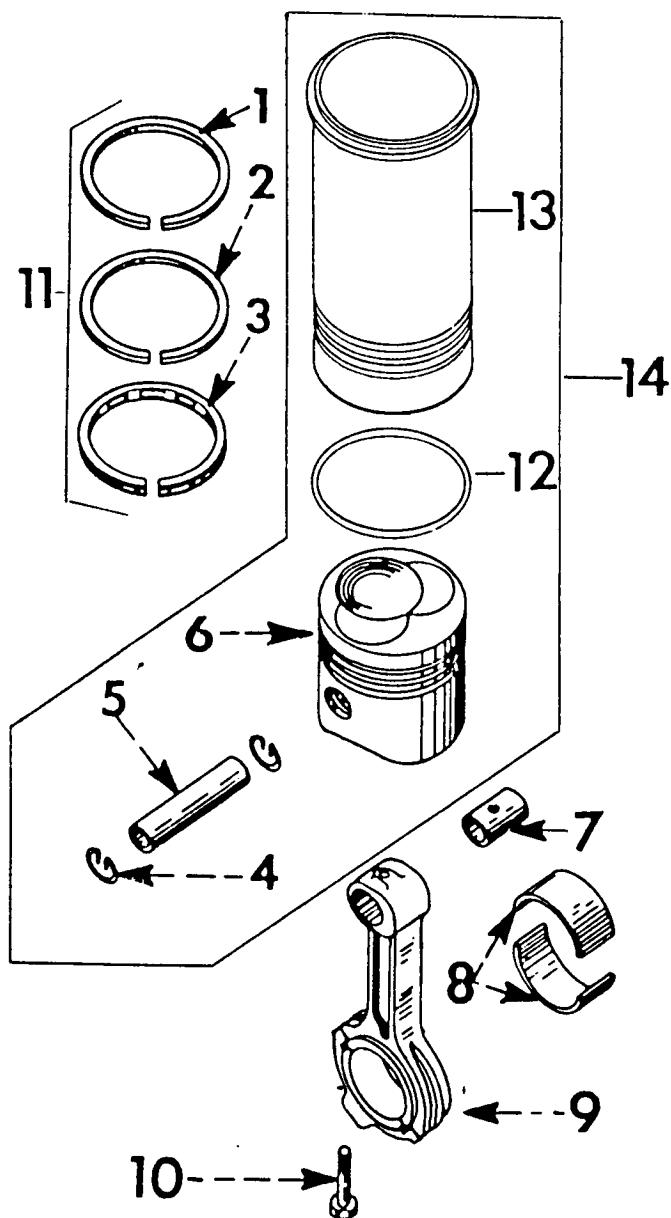
CAMSHAFT

MEMORANDA

CONNECTING ROD & PISTON 04

CONNECTING ROD AND PISTON

CONNECTING ROD, PISTON AND SLEEVE



CG-5646

CONNECTING ROD AND PISTON

Ref No	Part Number	Description	Quantity
CONNECTING ROD, PISTON AND SLEEVE			
1	NSS	RING, piston (Top compression)-----	AR
2	NSS	RING, piston (Intermediate compression)-----	AR
3	NSS	RING, piston (Oil regulating)-----	AR
4	326 874 R1	RETAINER, piston pin-----	12
5	670 675 C1	PIN, piston-----	6
6	NSS	PISTON-----	AR
7	675 006 C1	BUSHING, piston pin-----	6
8		BEARING, connecting rod (Refer to Crankshaft and Bearings)	
9	688 923 C91	ROD w/two BOLTS, 676 679 C2 and BUSHING, 675 006 C1, connecting-----	6
10	676 679 C2	BOLT, connecting rod-----	12
11	684 065 C92	PACKAGE, piston ring (D-466)-----	6
	684 256 C92	PACKAGE, piston ring (+)----- (DT-414, DT-414B, DT-466, DT-466B - # and below)	6
	687 429 C92	PACKAGE, piston ring (++)----- (DT-414, DT-414B, DT-466, DT-466B - # and Up) (DT-466C, DTI-466C)	6
12	680 086 C1	PACKAGE, cylinder sleeve "O" RING (Consists of three "O" RINGS)-----	6
13	682 720 C1	SLEEVE, cylinder-----	6
14	1809 579 C91	PISTON AND SLEEVE ASSY (D-466)-----	6
	1802 578 C91	PISTON AND SLEEVE ASSY (DT-414, DT-414B)-----	6
	1802 580 C91	PISTON AND SLEEVE ASSY (DT-466)-----	6
	1802 581 C93	PISTON AND SLEEVE ASSY (DT-466B, DT-466C, DTI-466C)--	6
	680 333 C92	PACKAGE, cylinder sleeve shim-----	AR

(+) - REF. SERVICE BULLETIN 12D-78-05.

(++) - REQUIRES VALVE COVER MOUNTED BREATHER.

CONNECTING ROD AND PISTON

MEMORANDA

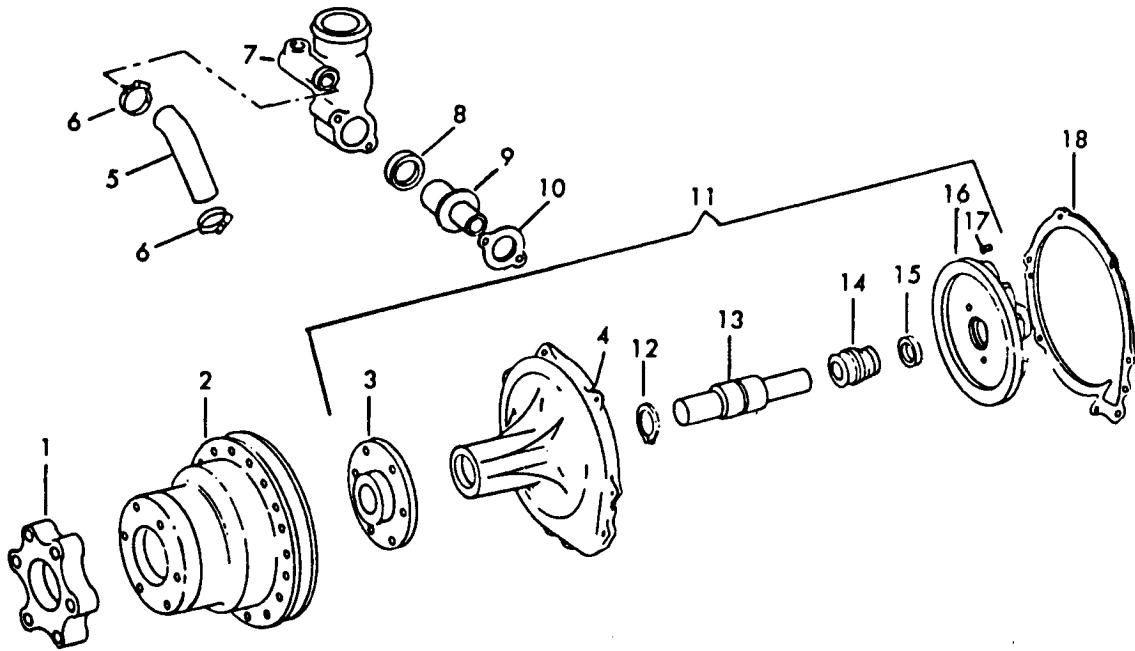
COOLING

05

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE

- (DT-414B for 530)
- (DT-466B for 412B, H-80B and 540)
- (DT-414 for H-65C and 530)
- (DT-466 for H-80B)
- (DT-466C for 530)
- (DTI-466C for 540)



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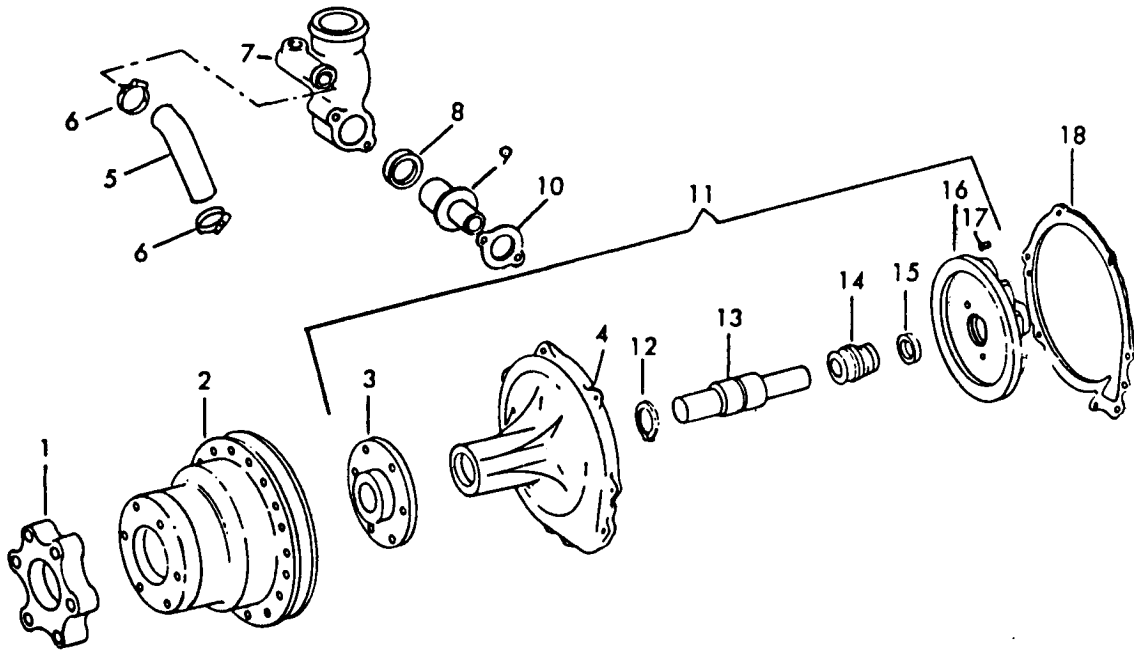
COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE			
(DT-414B for 530)			
(DT-466B for 412B, H-80B and 540)			
(DT-414 for H-65C and 530)			
(DT-466 for H-80B)			
(DT-466C for 530)			
(DTI-466C for 540)			
1		(See Individual Engine Variation)	
2		(See Individual Engine Variation)	
3	675 033 C1	HUB, water pump pulley-----	1
4	675 806 C3	HOUSING, water pump bearing-----	1
5	672 242 C1	HOSE, thermostat by-pass housing-----	1
6	311 164 C91	CLAMP, hose-----	2
7		(See individual engine variation)	
8	615 175 C91	SEAL, thermostat-----	1
9	687 018 C2	THERMOSTAT (180°-202°F)-----	1
10	675 384 C1	GASKET, thermostat housing-----	1
11	673 162 C93	PUMP ASSY, water-----	1
	25 522 R1	NUT-----	2
	24 844 R1	SCREW, 3-1/2" hex-hd cap-----	2
	140 483 H	SCREW, 1-1/4" hex-hd cap-----	4
	24 842 R1	SCREW, 1-3/4" hex-hd cap-----	2
	25 896 R1	WASHER, lock-----	8
12	272 842 R1	RING, snap-----	1
13	627 785 C91	BEARING and SHAFT-----	1
14	NSS	SEAL, water pump (Order PACKAGE, 687 161 C92)	
15	NSS	SEAT, water pump seal (Order PACKAGE, 687 161 C92)	
16	676 320 C1	IMPELLER, water pump (8 Vane)-----	1
17	680 481 C1	PIN, dowel-----	2
18	675 808 C1	GASKET, water pump housing-----	1
	687 161 C92	PACKAGE, water pump seal (Consists of SEAL, SEAT and "O" RING, 1802 812 C1)-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

- (DT-414B for 530)
- (DT-466B for 412B, H-80B and 540)
- (DT-414 for H-65C and 530)
- (DT-466 for H-80B)
- (DT-466C for 530)
- (DTI-466C for 540)



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COOLING

Ref No	Part Number	Description	Quantity
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WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414B for 530)
 (DT-466B for 412B, H-80B and 540)
 (DT-414 for H-65C and 530)
 (DT-466 for H-80B)
 (DT-466C for 530)
 (DTI-466C for 540)

ENGINE VARIATIONS

(DT-466C for 530)
(DT-414B for 530)
(DT-414 for 530)

1	683 731 C1	SPACER, fan-----	1
	275 804 R1	SCREW, 3/8" x 3" hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
2	683 437 C2	PULLEY, water pump-----	1
7	689 061 C1	HOUSING, thermostat-----	1
	445 751	PLUG, 1/2" sq-soc pipe-----	1
	444 660	PLUG, 3/8" sq-soc pipe (+)-----	1
	277 232 R1	SCREW, hex-hd cap (*)-----	1
	25 896 R1	WASHER, lock (*)-----	2
	27 580 R1	SCREW, hex-hd (*)-----	1

(DT-466B for H-80B, 412B and 540)
(DTI-466C for 540)

2	683 437 C2	PULLEY, water pump-----	1
	24 621 R1	SCREW, 3/8" x 2-1/4" hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
7	689 061 C1	HOUSING, thermostat-----	1
	445 751	PLUG, 1/2" sq-soc pipe-----	1
	444 660	PLUG, 3/8" sq-soc pipe (+)-----	1
	277 232 R1	SCREW, hex-hd cap (*)-----	1
	25 896 R1	WASHER, hardened (*)-----	2
	27 580 R1	SCREW, hex-hd (*)-----	1

(*) - Hardware not required on applications with coolant filter mounted on thermostat housing.

(+) - Used on applications w/o coolant filters.

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414B for 530)

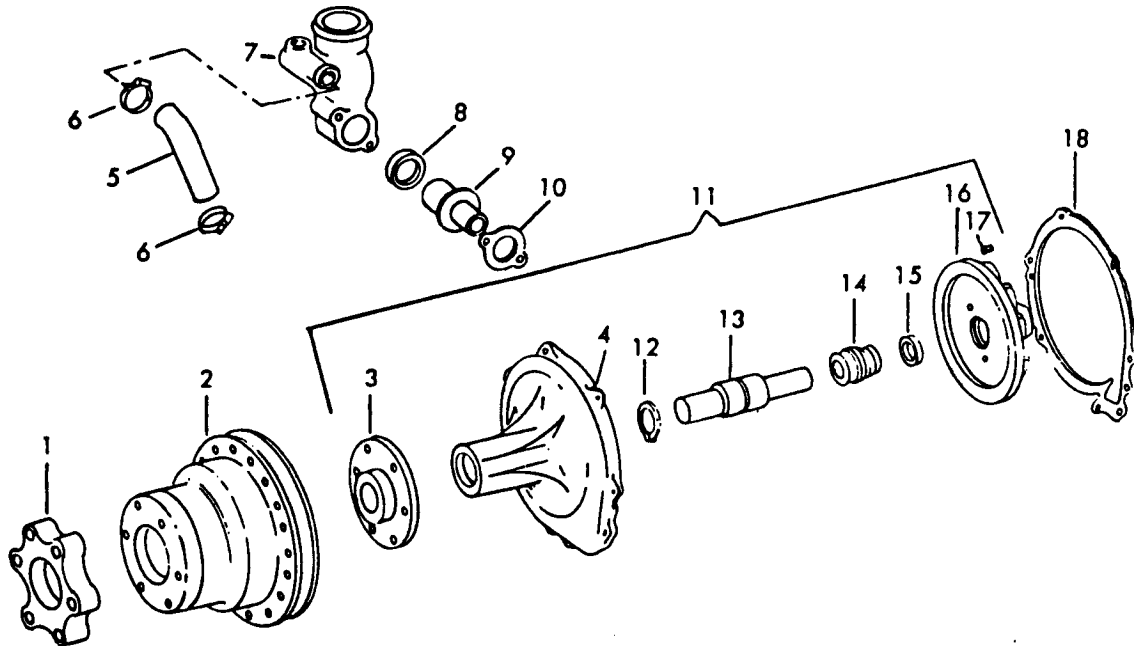
(DT-466B for 412B, H-80B and 540)

(DT-414 for H-65C and 530)

(DT-466 for H-80B)

(DT-466C for 530)

(DTI-466C for 540)



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COOLING

Ref No	Part Number	Description	Quantity
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WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414B for 530)
 (DT-466B for 412B, H-80B and 540)
 (DT-414 for H-65C and 530)
 (DT-466 for H-80B)
 (DT-466C for 530)
 (DTI-466C for 540)

ENGINE VARIATIONS - Continued

(DT-466 for H-80B)

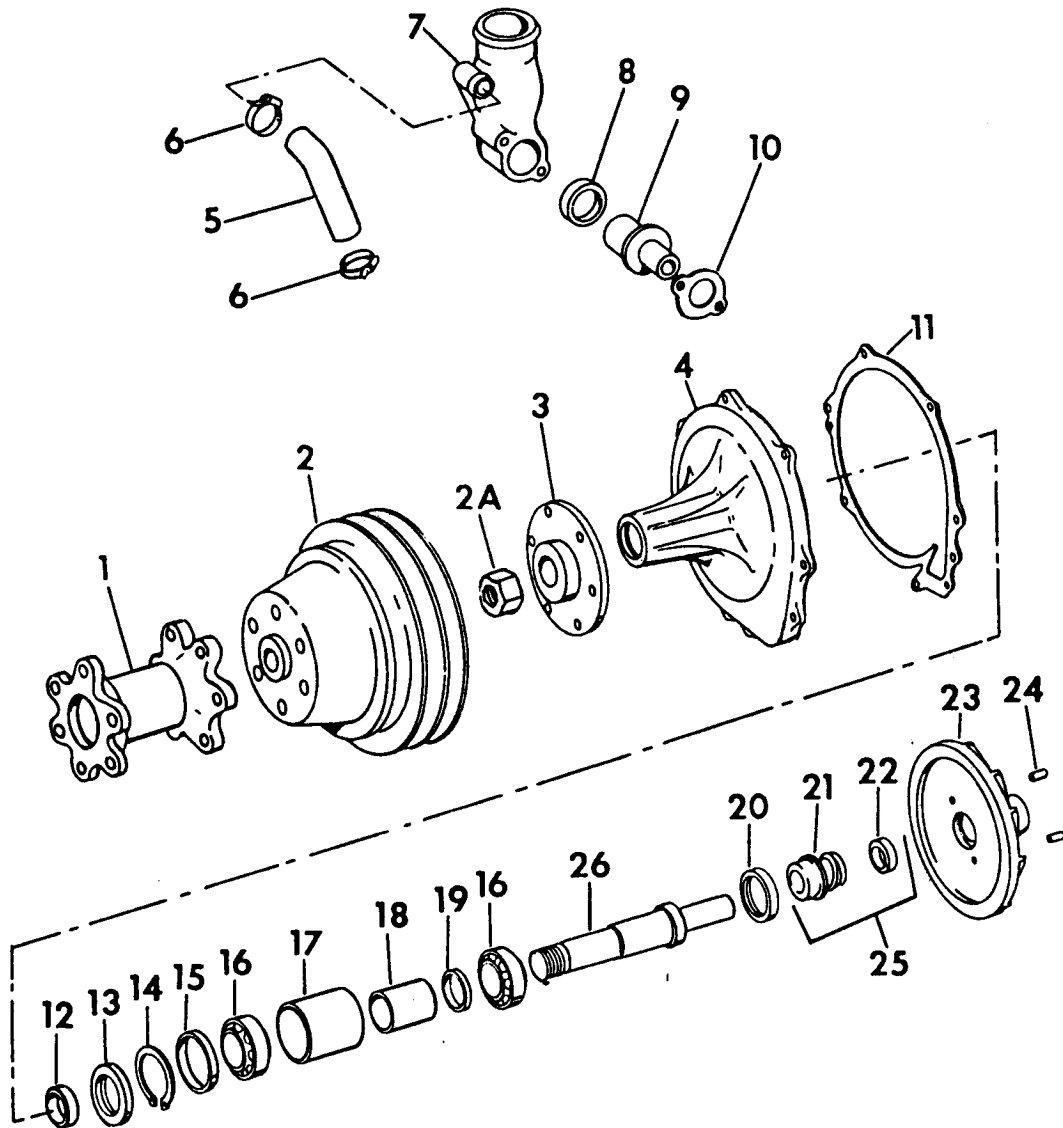
2	680 589 C1	PULLEY, water pump 6123 and below-----	1
2	683 437 C2	PULLEY, water pump 6124 and up-----	1
7	689 061 C1	HOUSING, thermostat-----	1
	445 751	PLUG, 1/2" sq-soc pipe-----	1
	444 660	PLUG, 3/8" sq-soc pipe-----	1
	277 232 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	2

(DT-414 for H-65C)

2	680 589 C1	PULLEY, water pump 52467 and below-----	1
2	683 437 C2	PULLEY, water pump 52468 and up-----	1
7	675 810 C1	HOUSING, thermostat-----	1
	444 664	PLUG, 1/2" sq-soc pipe-----	1
	9409 947	PLUG, 3/4" sq-soc pipe-----	1
	277 232 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	2

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE
(D-466 for TD-12)



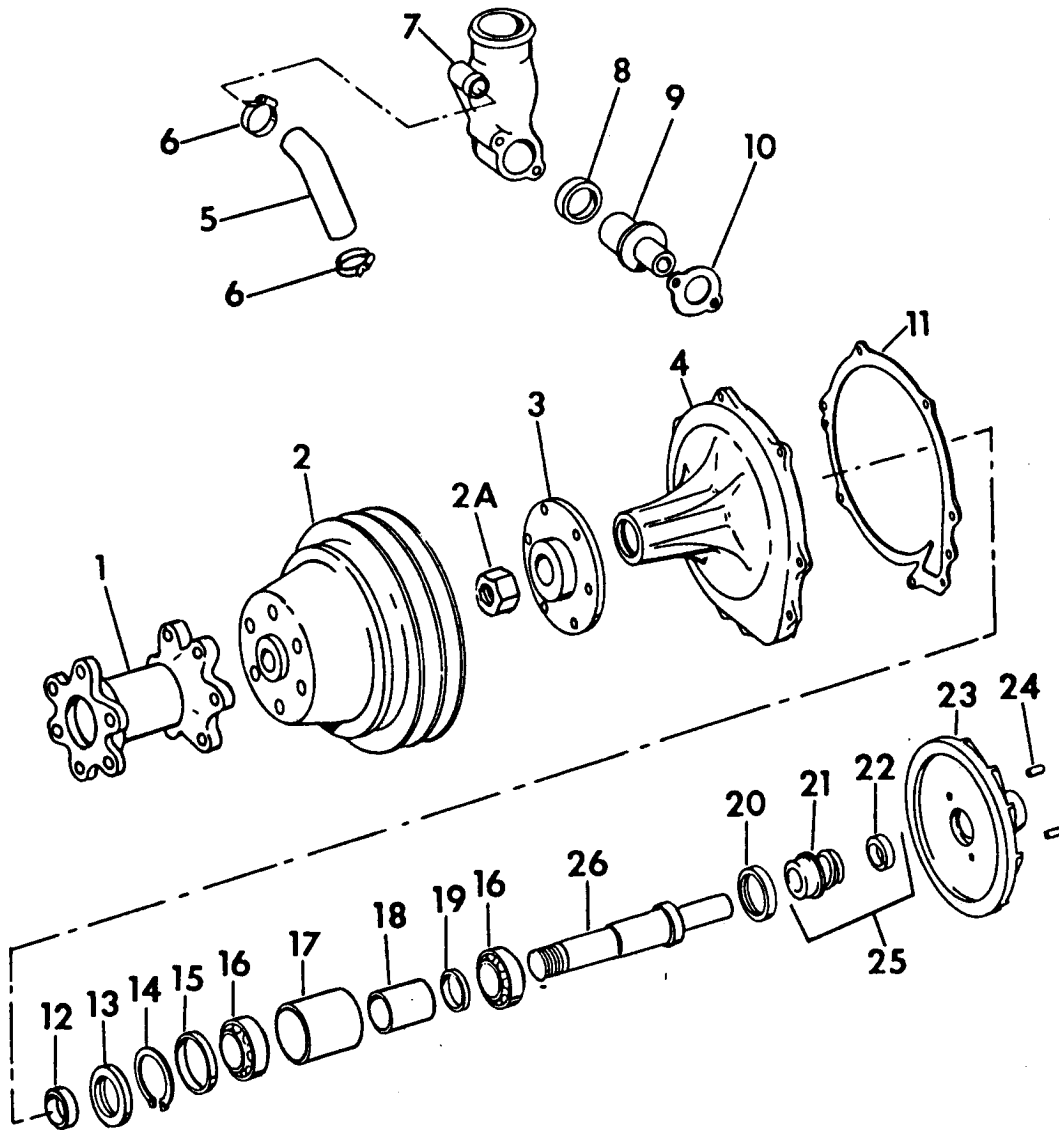
CG-5648

COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE			
(D-466 for TD-12)			
1	683 767 C1	SPACER, fan-----	1
	24 621 R1	SCREW, 2-1/4"-----	6
	25 896 R1	WASHER, 3/8" hardened-----	6
2	1800 282 C1	PULLEY, water pump-----	1
2A	691 342 C1	NUT-----	1
3	685 157 C1	HUB, water pump pulley-----	1
4	677 856 C2	HOUSING, water pump bearing-----	1
	25 522 R1	NUT, 3/8" (Type 8)-----	2
	24 844 R1	SCREW, 3-1/2" hex-hd cap (Type 8)-----	2
	140 483 H	SCREW, 1-1/4" hex-hd cap (Type 8)-----	4
	24 842 R1	SCREW, 1-3/4" hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	8
5	672 242 C1	HOSE, thermostat by-pass housing-----	1
6	311 164 C91	CLAMP, hose-----	2
7	689 061 C1	HOUSING, thermostat-----	1
	277 232 R1	SCREW, 2-3/4" hex-hd cap-----	1
	25 896 R1	WASHER, hardened-----	2
	275 804 R1	SCREW, 3"-----	1
8	615 175 C91	SEAL-----	1
9	687 018 C2	THERMOSTAT (180°-202°F)-----	1
10	675 384 C1	GASKET, thermostat housing-----	1
11	675 808 C1	GASKET, water pump housing-----	1
12	673 308 C2	SLEEVE, water pump wear-----	1
13	677 143 C91	SEAL, water pump bearing (front)-----	1
14	272 842 R1	RING, snap-----	1
15	677 715 C1	SPACER, retaining ring-----	1
16	677 148 C91	BEARING SET w/SPACER-----	1
17	677 141 C1	SPACER, bearing outer-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued (D-466 for TD-12)



CG-5648

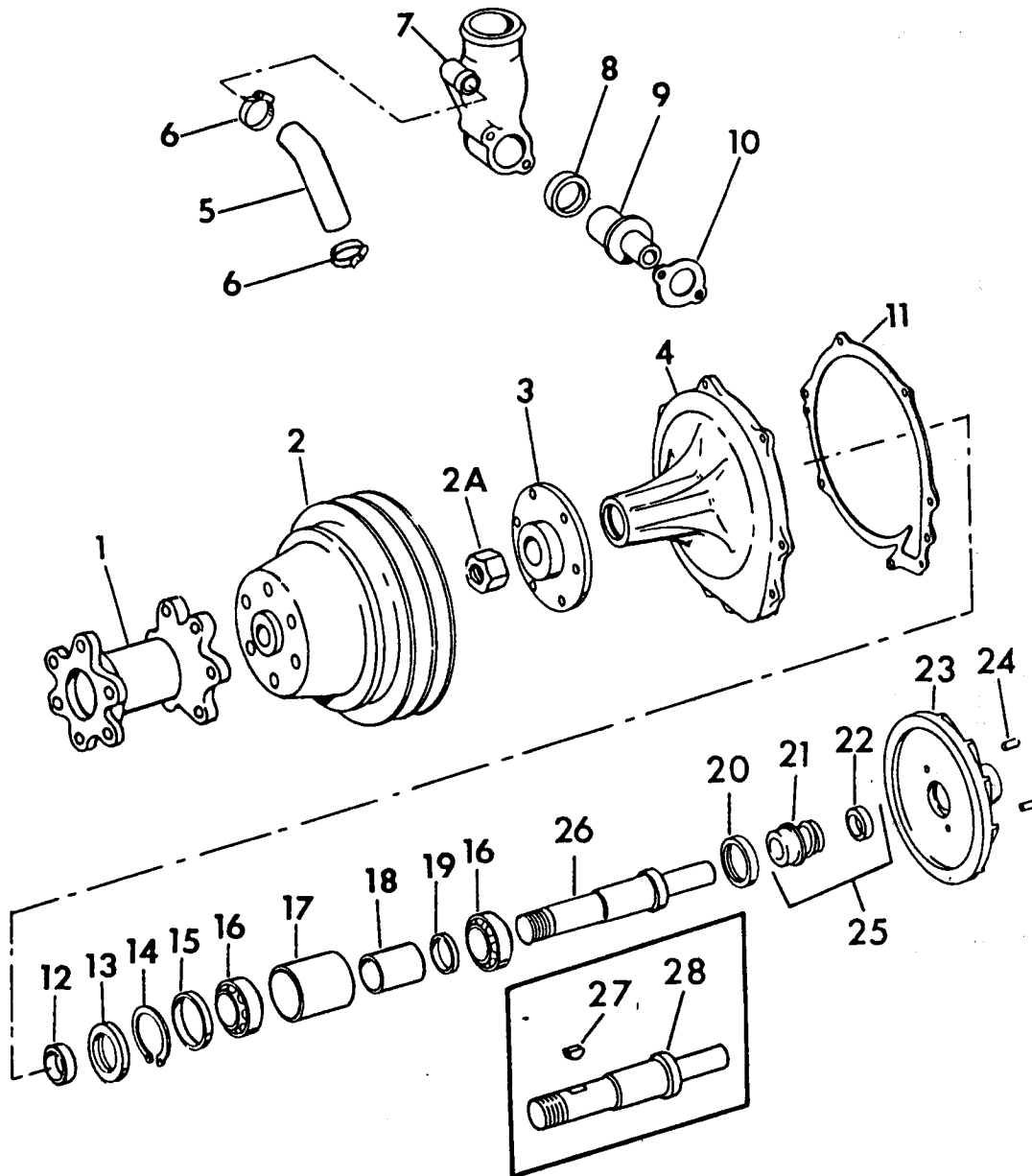
COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued (D-466 for TD-12)			
18	685 152 C1	SPACER, bearing inner-----	1
19	NSS	SPACER, (Order BEARING, 677 148 C91)	
20	677 720 C91	SEAL, water pump bearing (rear)-----	1
21	NSS	SEAL, water pump (Order PACKAGE, 687 161 C92)	
22	NSS	SEAT, water pump seal (Order PACKAGE, 687 161 C92)	
23	676 320 C1	IMPELLER, water pump (8 vane)-----	1
24	680 481 C1	PIN, dowel-----	2
25	687 161 C92	PACKAGE, water pump seal (Consists of SEAL, SEAT and "O" RING, 1802 812 C1)-----	1
26	685 153 C2	SHAFT, water pump-----	1
	685 155 C93	PUMP ASSY, water----- Consists of:	1
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	676 320 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1
	677 715 C1	SPACER-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE

(DT-414 for E-200)
(DT-466 for 412, 433 and 444,
TD-15C and 175C)
(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)
(DT-466C for TD-15C and 175C)



CG-5648A

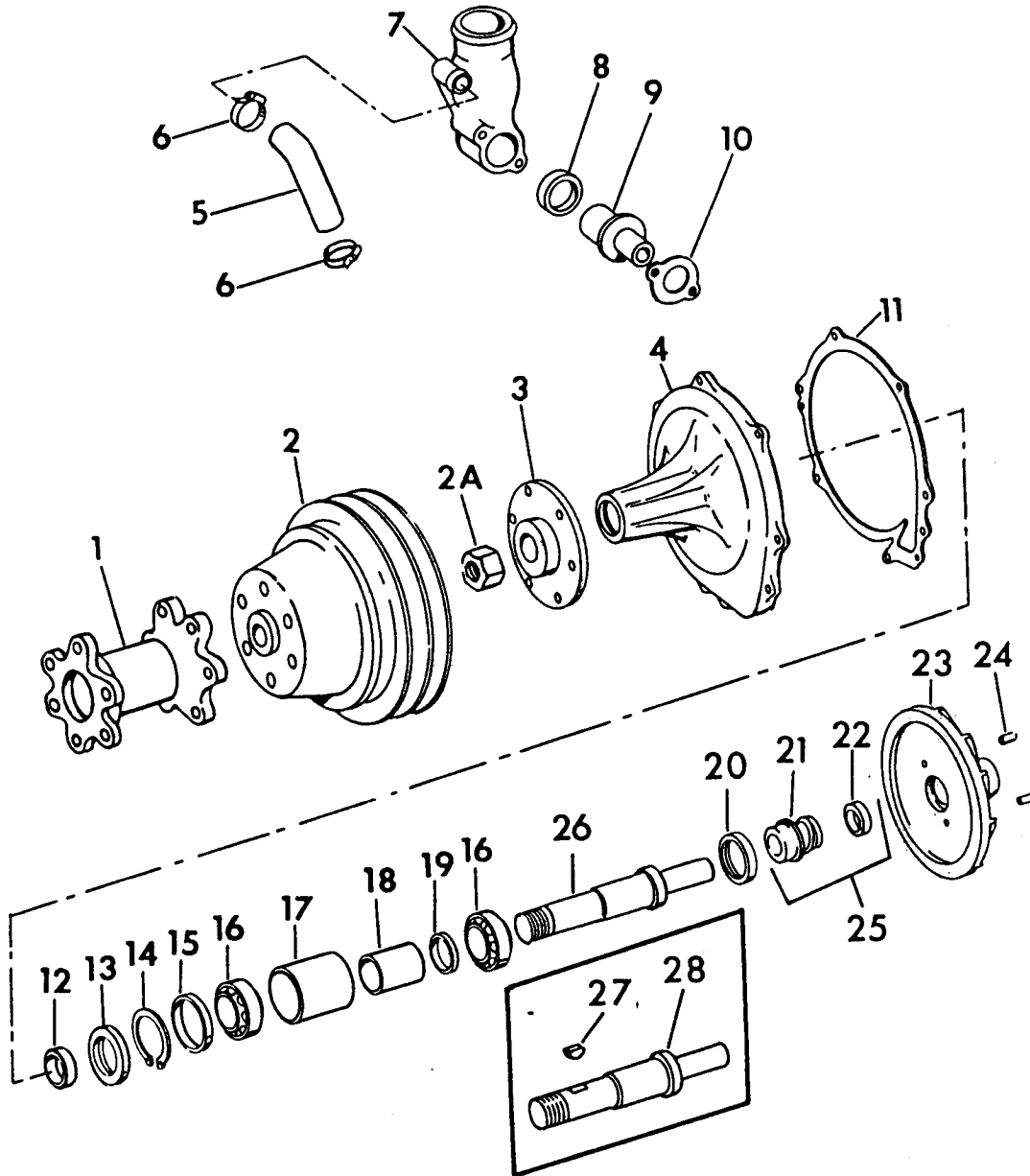
COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE			
(DT-414 for E-200)			
(DT-466 for 412, 433 and 444, TD-15C and 175C)			
(DT-466B for 412, 433B, 444B, TD-15C, 175C and TD-12)			
(DT-466C for TD-15C and 175C)			
1		(See Individual Engine Variation)	
2		(See Individual Engine Variation)	
2A	691 342 C1	NUT, 3/4" (PLN Type 8)-----	1
3	677 865 C1	HUB, water pump pulley----- E-200 44481 and below 412 4933 and below 433 & 444 2836 and below TD-15C 4290 and below 175C 4100 and below	1
3	685 157 C1	HUB, water pump pulley----- E-200 44482 and up 412 4934 and up 433 & 444 2837 and up TD15C 4291 and up 175C 4101 and up All 466B Series Engines	1
4	677 856 C2	HOUSING, water pump bearing-----	1
	25 522 R1	NUT, 3/8" (Type 8)-----	2
	24 844 R1	SCREW, 3-1/2" hex-hd cap (Type 8)-----	2
	140 483 H	SCREW, 1-1/4" hex-hd cap (Type 8)-----	4
	24 842 R1	SCREW, 1-3/4" hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	8
	24 842 R1	SCREW, hex-hd cap-----	2
	115 093	WASHER, 3/8" lock-----	8
5	672 242 C1	HOSE, thermostat by-pass housing-----	1
6	311 164 C91	CLAMP, hose-----	2
7	689 061 C1	HOUSING, thermostat-----	1
	444 660	PLUG, sq-soc pipe-----	1
	277 232 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	2
8	615 175 C91	SEAL-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
(DT-466 for 412, 433 and 444,
TD-15C and 175C)
(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)
(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued			
(DT-414 for E-200)			
(DT-466 for 412, 433 and 444, TD-15C and 175C)			
(DT-466B for 412, 433B, 444B, TD-15C, 175C and TD-12)			
(DT-466C for TD-15C and 175C)			
9	687 018 C2	THERMOSTAT (180°-202°F)-----	1
10	675 384 C1	GASKET, thermostat housing-----	1
11	675 808 C1	GASKET, water pump housing-----	1
12	673 308 C2	SLEEVE, water pump wear-----	1
13	1806 268 C91	SEAL, water pump bearing (Front)-----	2
14	272 842 R1	RING, snap-----	1
15	677 715 C1	SPACER, retaining ring-----	1
16	677 148 C91	BEARING SET w/SPACER-----	1
17	677 141 C1	SPACER, bearing outer-----	1
18	677 142 C1	SPACER, bearing inner-----	1
		E-200 44481 and below	
		412 4933 and below	
		433 & 444 2836 and below	
		TD-15C 4290 and below	
		175C 4100 and below	
	685 152 C1	SPACER, bearing inner-----	1
		E-200 44482 and up	
		412 4934 and up	
		433 & 444 2837 and up	
		TD-15C 4291 and up	
		175C 4101 and up	
		All 466B Series Engines	
19	NSS	SPACER, (Order BEARING, 677 148 C91)	
20	1806 267 C91	SEAL, water pump bearing (Rear)-----	1
21	NSS	SEAL, water pump (Order PACKAGE, 687 161 C92)	
22	NSS	SEAT, water pump seal (Order PACKAGE, 687 161 C92)	

COOLING

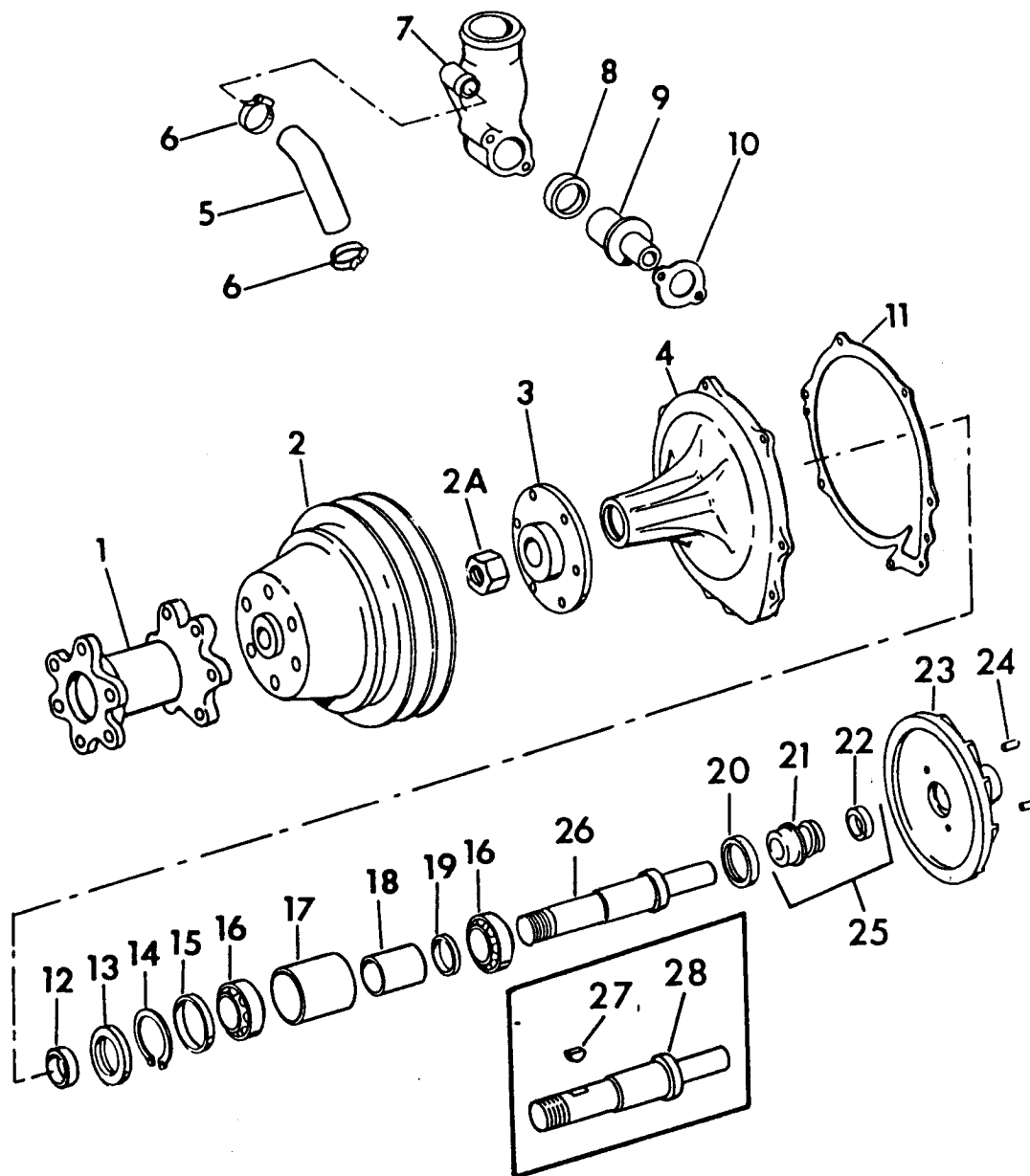
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)

(DT-466 for 412, 433 and 444,
TD-15C and 175C)

(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)

(DT-466C for TD-15C and 175C)



CG-5648A

COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued			
(DT-414 for E-200)			
(DT-466 for 412, 433 and 444, TD-15C and 175C)			
(DT-466B for 412, 433B, 444B, TD-15C, 175C and TD-12)			
(DT-466C for TD-15C and 175C)			
23		(See Individual Engine Variation)	
24	680 481 C1	PIN, dowel-----	2
25	687 161 C92	PACKAGE, water pump seal (Consists of SEAL, SEAT and "O" RING, 1802 812 C1)-----	1
23		(See Individual Engine Variation)	
24	680 481 C1	PIN, dowel-----	2
25	687 161 C92	PACKAGE, water pump seal (Consists of SEAL, SEAT and "O" RING, 1802 812 C1)-----	1
26	685 153 C2	SHAFT, water pump----- E-200 44482 and up 412 4934 and up 433 & 444 2837 and up TD-15C 4291 and up 175C 4101 and up All 466B Series Engines	1
27	124 549	KEY, Woodruff (Used only on SHAFT, 677 149 C1)-----	1
28	677 149 C1	SHAFT, water pump----- E-200 44482 and below 412 4933 and below 433 & 444 2836 and below TD-15C 4290 and below 175C 4100 and below	1

COOLING

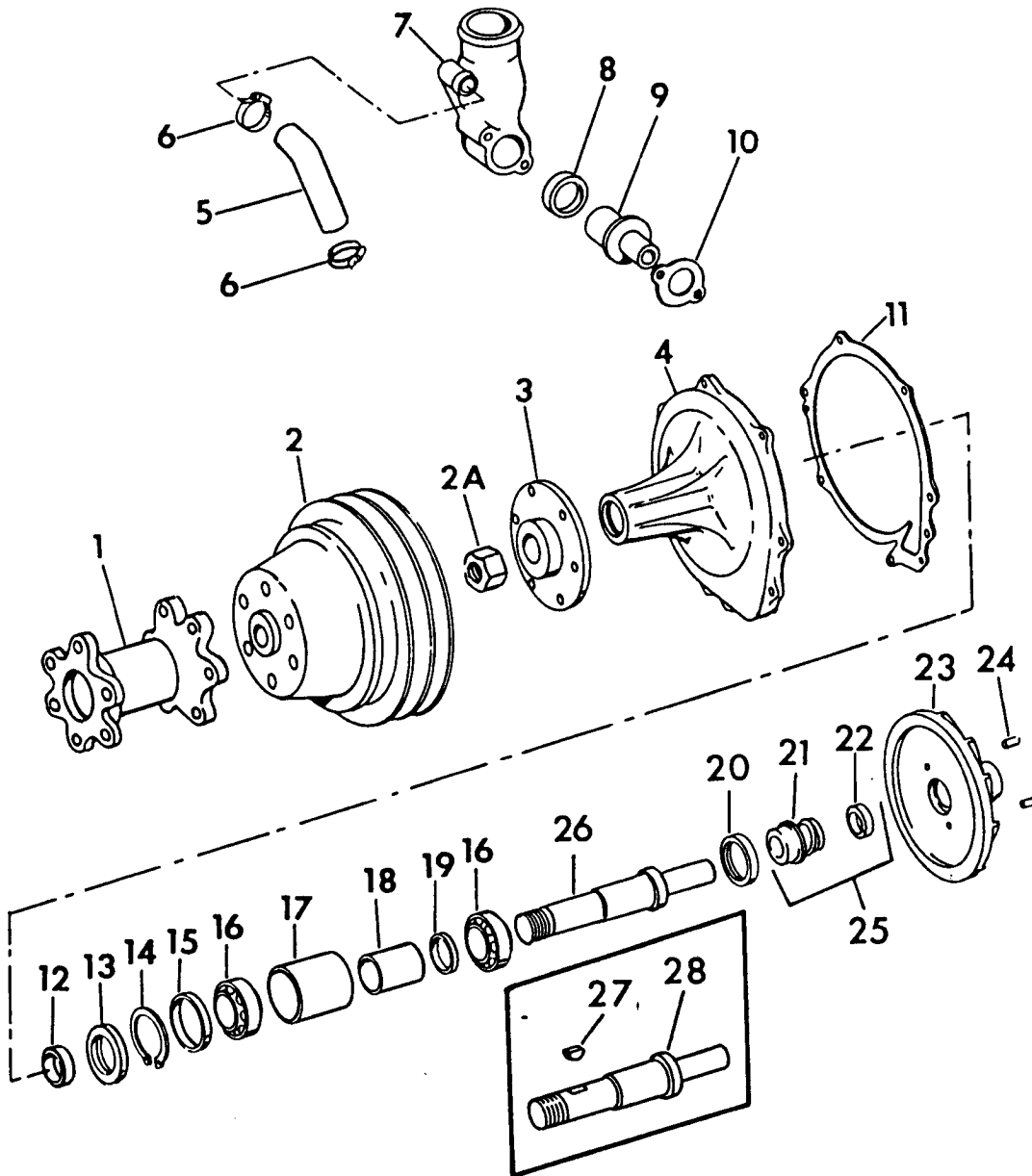
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)

(DT-466 for 412, 433 and 444,
TD-15C and 175C)

(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)

(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
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WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
 (DT-466 for 412, 433 and 444,
 TD-15C and 175C)
 (DT-466B for 412, 433B, 444B,
 TD-15C, 175C and TD-12)
 (DT-466C for TD-15C and 175C)

ENGINE VARIATIONS

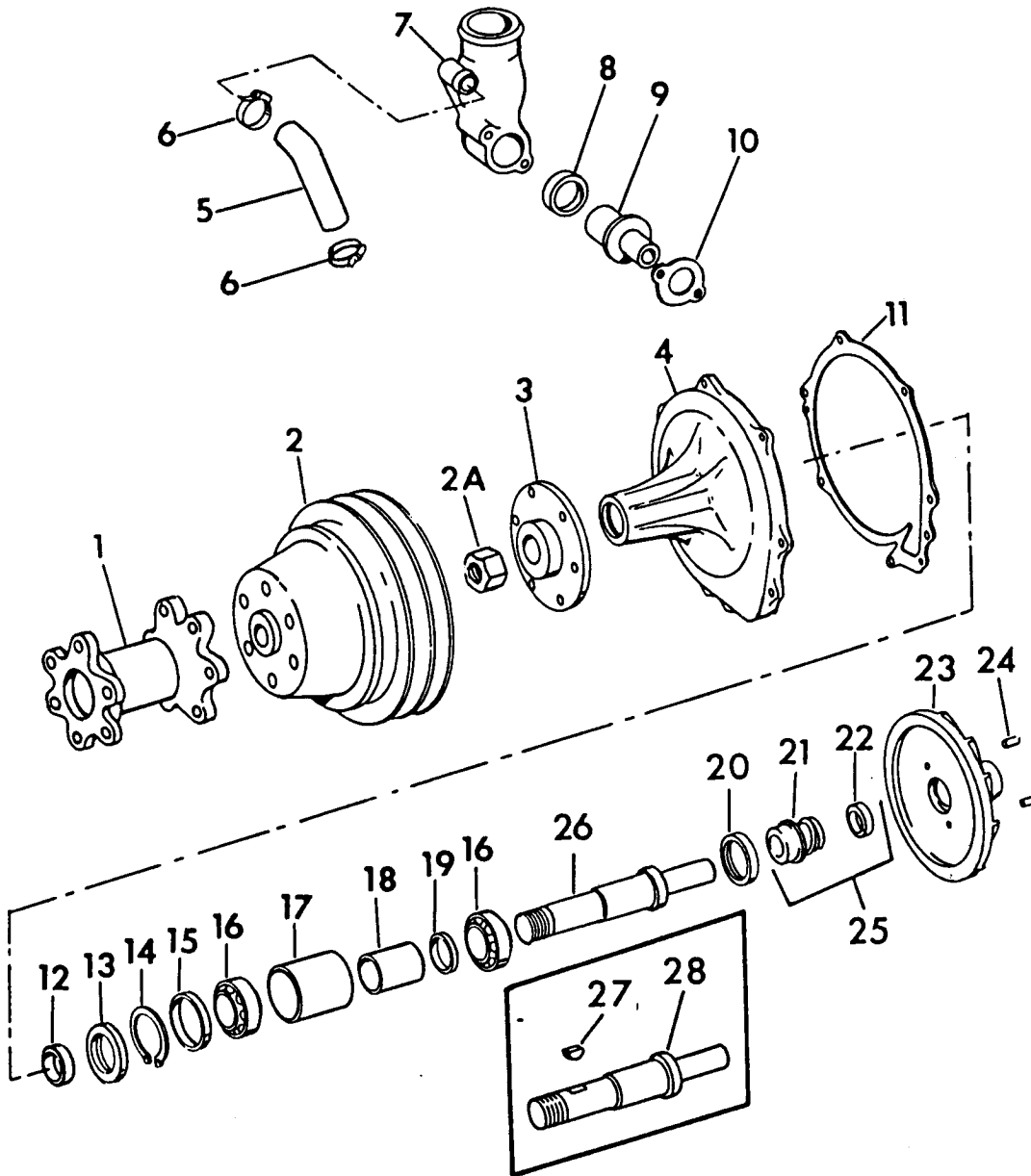
(DT-414 FOR E-200)

2	673 366 C1	PULLEY, water pump # and below-----	1
	26 310 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
2	685 918 C1	PULLEY, water pump # and up-----	1
23	677 414 C1	IMPELLER, water pump (4 Vane)-----	1
	685 156 C93	PUMP ASSY, water-----	1
		Consists of:	
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	677 414 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1
	677 715 C1	SPACER-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
(DT-466 for 412, 433 and 444,
TD-15C and 175C)
(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)
(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
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WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
 (DT-466 for 412, 433 and 444,
 TD-15C and 175C)
 (DT-466B for 412, 433B, 444B,
 TD-15C, 175C and TD-12)
 (DT-466C for TD-15C and 175C)

ENGINE VARIATIONS - Continued

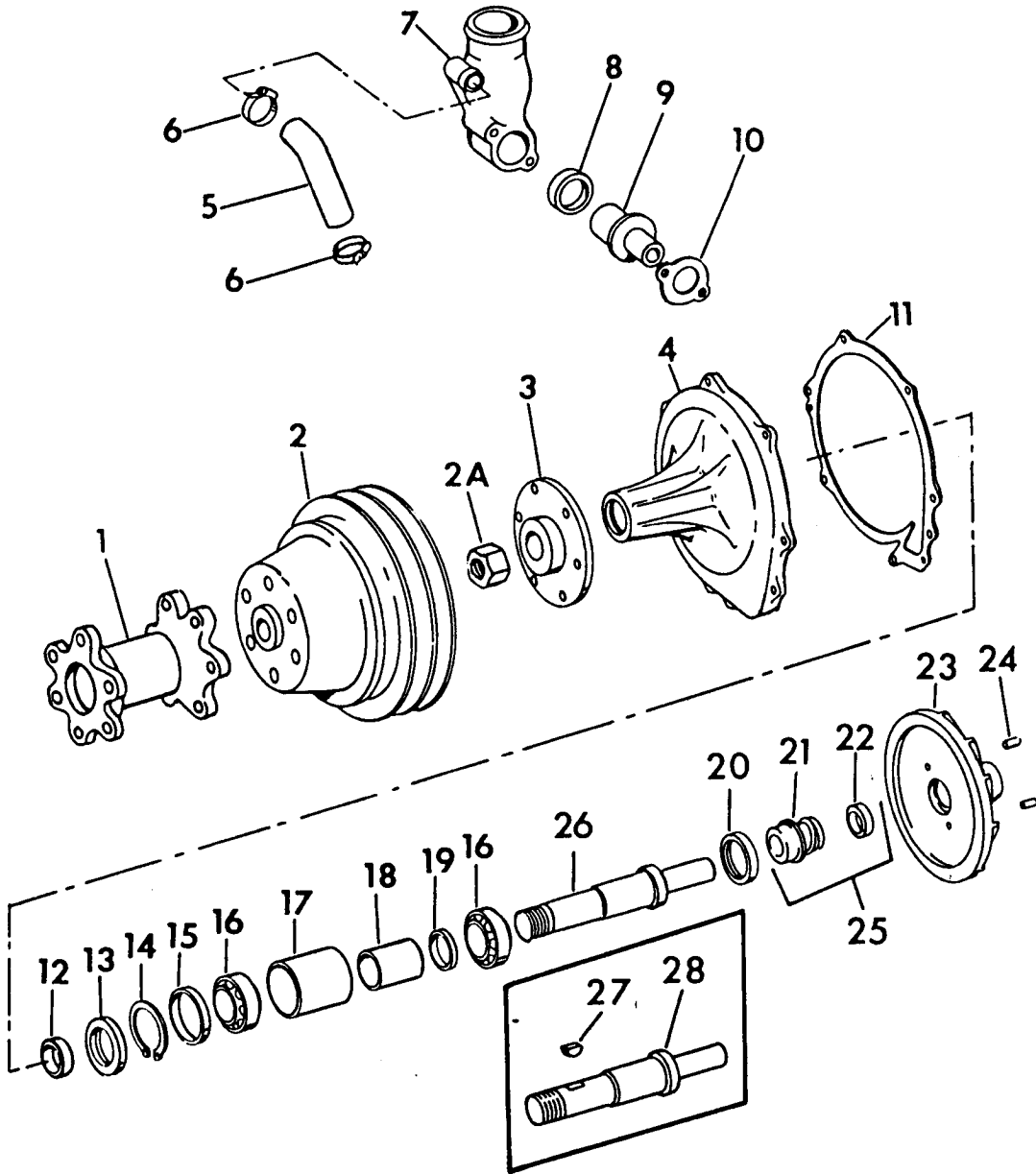
(DT-466 for 412)

2	673 366 C1	PULLEY, water pump 9423 and below-----	1
	26 310 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
2	685 918 C1	PULLEY, water pump 9424 and up-----	1
23	677 414 C1	IMPELLER, water pump (4 Vane)-----	1
	685 156 C93	PUMP ASSY, water-----	1
		Consists of:	
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	677 414 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1
	677 715 C1	SPACER-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
(DT-466 for 412, 433 and 444,
TD-15C and 175C)
(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)
(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
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WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
 (DT-466 for 412, 433 and 444,
 TD-15C and 175C)
 (DT-466B for 412, 433B, 444B,
 TD-15C, 175C and TD-12)
 (DT-466C for TD-15C and 175C)

ENGINE VARIATIONS - Continued

(DT-466B for 433 B and 444B)
DT-466 for 433 and 444)

2	683 766 C1	PULLEY, water pump-----	1
	25 522 R1	NUT-----	1
	24 841 R1	SCREW, 1-1/2" hex-hd cap-----	3
	24 844 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 896 R1	WASHER, hardened-----	3
23	676 320 C1	IMPELLER, water pump (8 Vane)-----	1
	685 155 C93	PUMP ASSY, water-----	1
		Consists of:	
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	676 320 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1
	677 715 C1	SPACER-----	1

COOLING

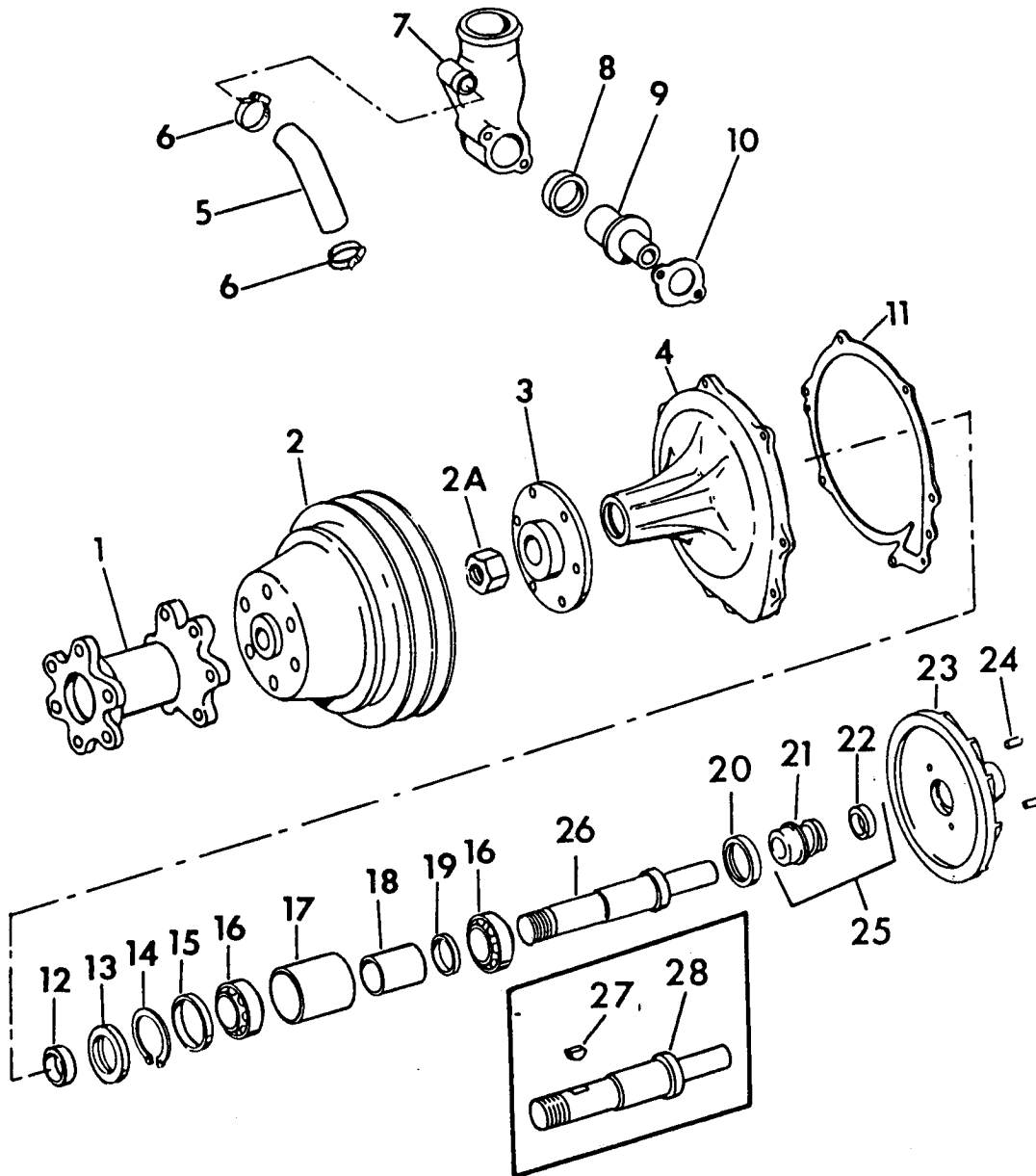
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)

(DT-466 for 412, 433 and 444,
TD-15C and 175C)

(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)

(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
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WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
 (DT-466 for 412, 433 and 444,
 TD-15C and 175C)
 (DT-466B for 412, 433B, 444B,
 TD-15C, 175C and TD-12)
 (DT-466C for TD-15C and 175C)

ENGINE VARIATIONS - Continued

(DT-466 for TD-15C)
(DT-466B for TD-15C)
(DT-466C for TD-15C)

1	674 424 C1	SPACER, fan mounting-----	1
2	683 766 C1	PULLEY, water pump-----	1
	277 232 R1	SCREW, 3/8" x 2-3/4" hex-hd cap-----	6
	25 896 R1	WASHER, hardened-----	6
23	676 320 C1	IMPELLER, water pump (8 Vane)-----	1
	685 155 C93	PUMP ASSY, water-----	1
		Consists of:	
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	676 320 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1
	677 715 C1	SPACER-----	1

COOLING

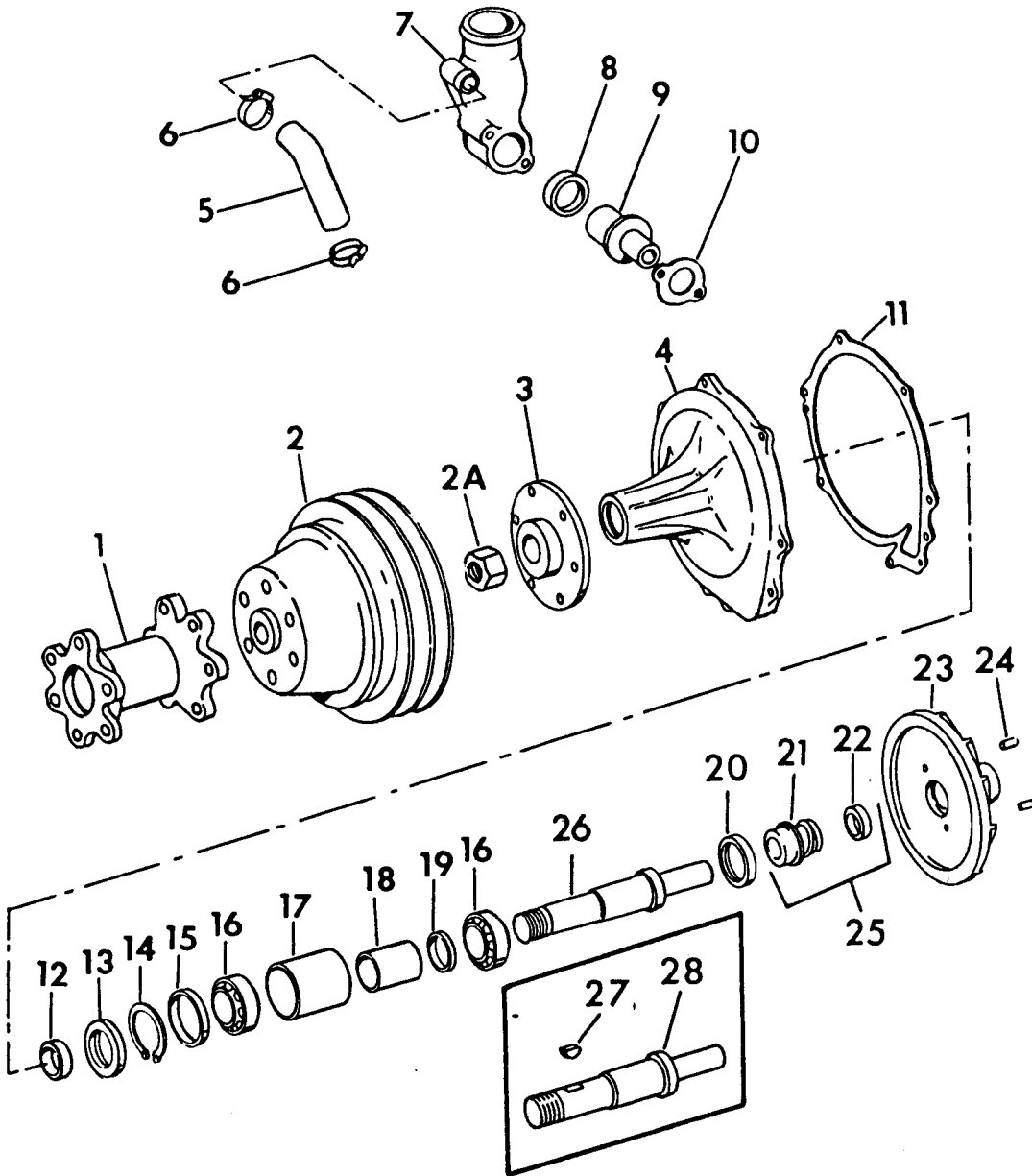
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)

(DT-466 for 412, 433 and 444,
TD-15C and 175C)

(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)

(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
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WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
 (DT-466 for 412, 433 and 444,
 TD-15C and 175C)
 (DT-466B for 412, 433B, 444B,
 TD-15C, 175C and TD-12)
 (DT-466C for TD-15C and 175C)

ENGINE VARIATIONS - Continued

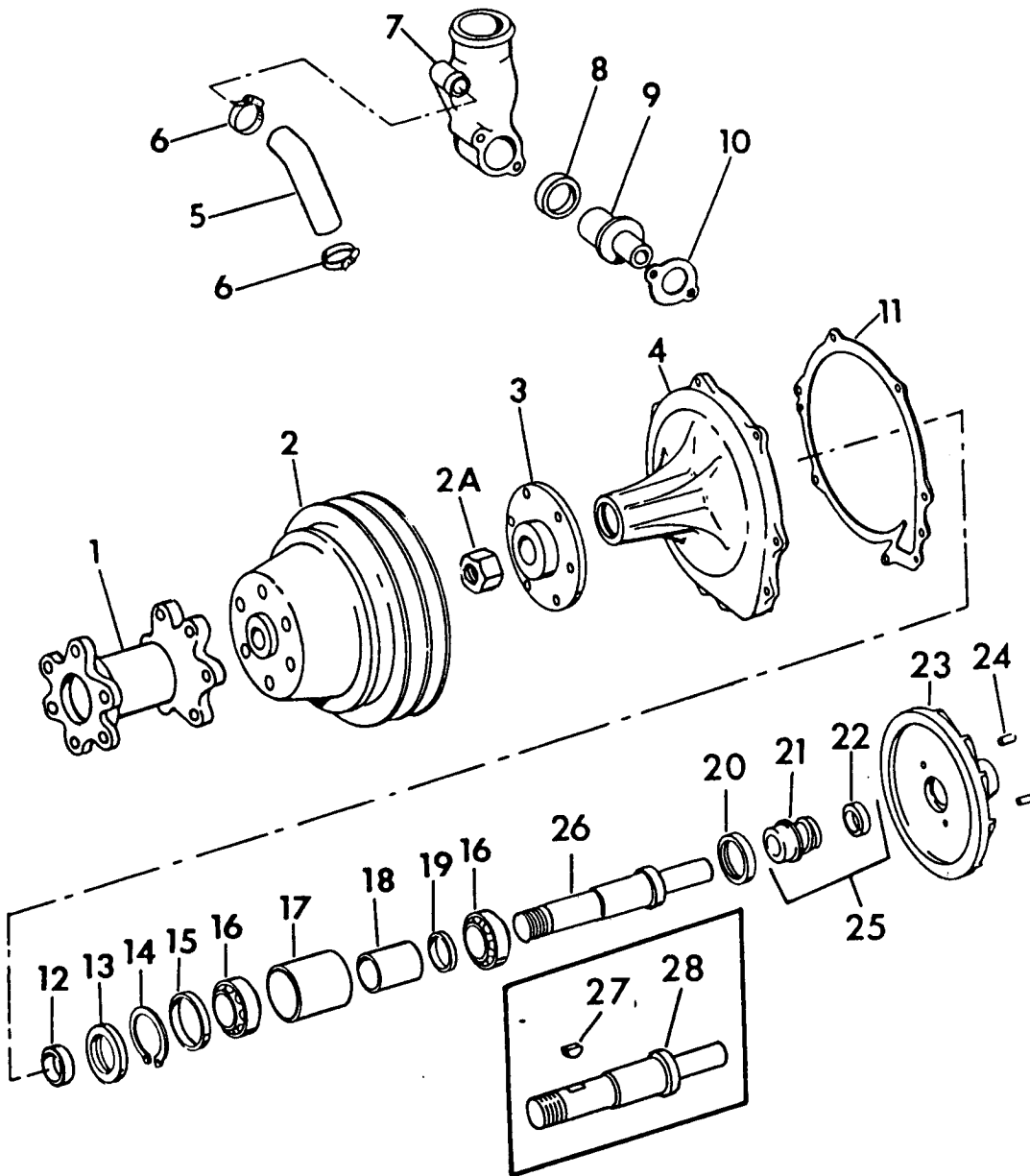
(DT-466 for 175C)
(DT-466B for 175C)
(DT-466C for 175C)

2	683 766 C1	PULLEY, water pump-----	1
	24 842 R1	SCREW, 3/8" x 1-3/4" hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
23	676 320 C1	IMPELLER, water pump (8 Vane)-----	1
	685 155 C93	PUMP ASSY, water-----	1
		Consists of:	
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	676 320 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1
	677 715 C1	SPACER-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)
(DT-466 for 412, 433 and 444,
TD-15C and 175C)
(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)
(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued			
(DT-414 for E-200)			
(DT-466 for 412, 433 and 444, TD-15C and 175C)			
(DT-466B for 412, 433B, 444B, TD-15C, 175C and TD-12)			
(DT-466C for TD-15C and 175C)			

ENGINE VARIATIONS - Continued

(DT-466B for 412)

2	685 918 C1	PULLEY, water pump-----	1
	26 310 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
23	677 414 C1	IMPELLER, water pump (4 Vane)-----	1
	685 156 C93	PUMP ASSY, water-----	1
		Consists of:	
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	677 414 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1
	677 715 C1	SPACER-----	1

COOLING

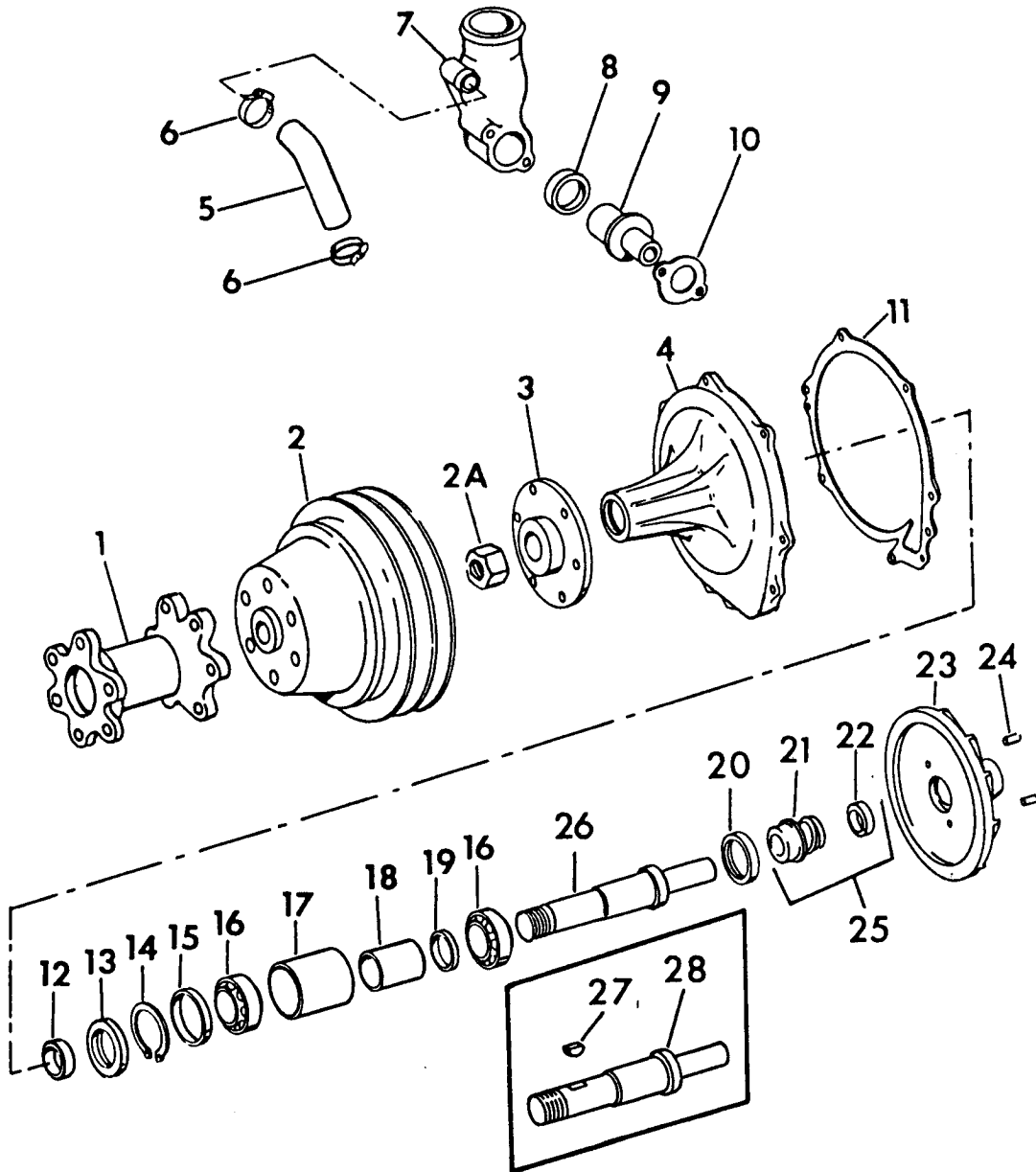
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued

(DT-414 for E-200)

(DT-466 for 412, 433 and 444,
TD-15C and 175C)

(DT-466B for 412, 433B, 444B,
TD-15C, 175C and TD-12)

(DT-466C for TD-15C and 175C)



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COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued			
(DT-414 for E-200)			
(DT-466 for 412, 433 and 444, TD-15C and 175C)			
(DT-466B for 412, 433B, 444B, TD-15C, 175C and TD-12)			
(DT-466C for TD-15C and 175C)			

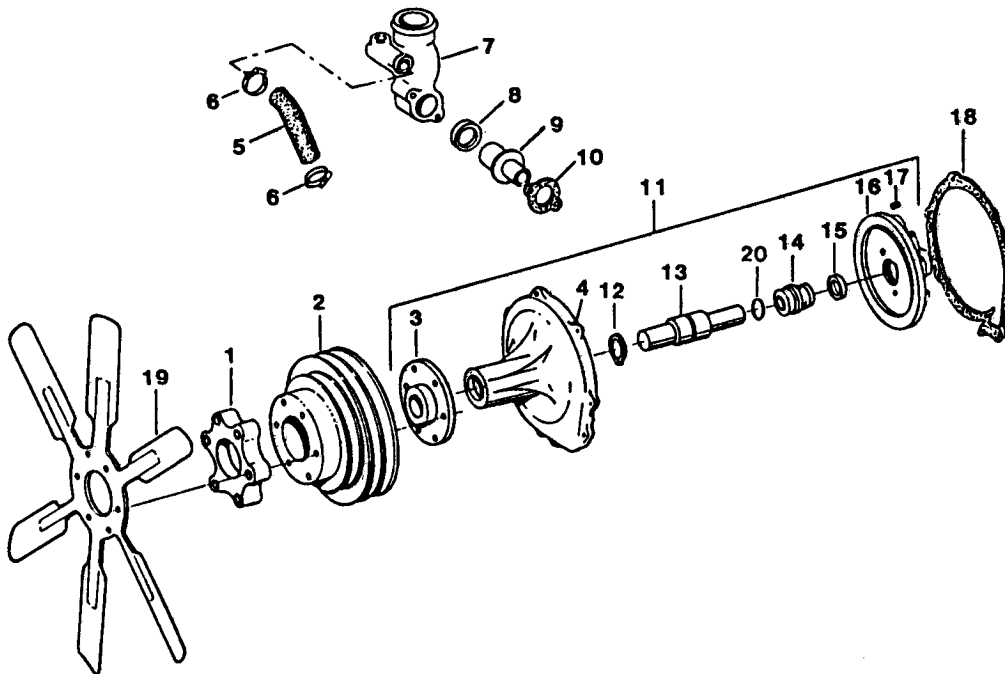
ENGINE VARIATIONS - Continued

(DT-466B for TD-12)

2	1800 282 C1	PULLEY, water pump-----	1
	24 841 R1	SCREW, 1-1/2" hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
23	676 320 C1	IMPELLER, water pump (8 Vane)-----	1
	685 155 C93	PUMP ASSY, water-----	1
		Consists of:	
	677 148 C91	BEARING-----	1
	677 856 C2	HOUSING-----	1
	685 157 C1	HUB-----	1
	676 320 C1	IMPELLER-----	1
	218 404	NUT-----	1
	680 481 C1	PIN-----	2
	272 842 R1	RING-----	1
	NSS	SEAL-----	1
	677 143 C91	SEAL-----	1
	677 720 C91	SEAL-----	1
	NSS	SEAT-----	1
	685 153 C2	SHAFT-----	1
	673 308 C2	SLEEVE-----	1
	677 141 C1	SPACER-----	1
	685 152 C1	SPACER-----	1

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE (All Galion Applications)



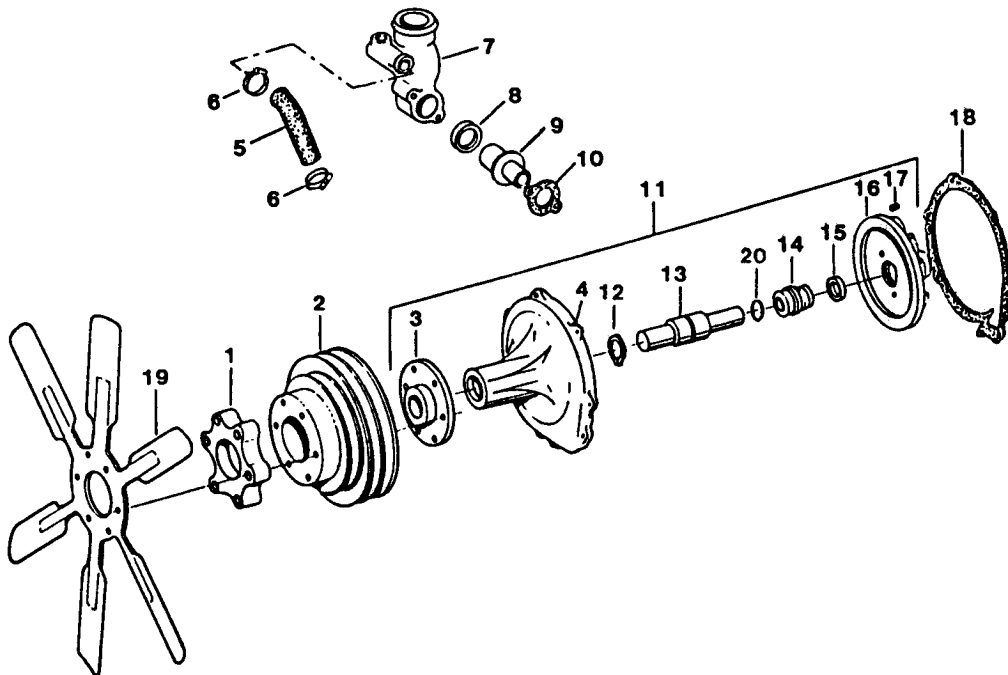
CG-5648B

COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE			
(All Galion Applications)			
1	681 030 C1	SPACER, fan-----	1
	OR		
1	673 013 C1	SPACER, fan-----	1
	24 621 R1	BOLT, 3/8-16 x 2-1/4-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
2	691 562 C1	PULLEY, water pump (3 Groove Replaces 2 Groove)-----	1
3	675 033 C1	HUB, water pump pulley-----	1
4	675 806 C3	HOUSING, water pump bearing-----	1
	25 522 R1	NUT-----	2
	24 844 R1	SCREW, 3-1/2" hex-hd cap-----	2
	140 483 H	SCREW, 1-1/4" hex-hd cap-----	4
	24 842 R1	SCREW, 1-3/4" hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	8
5	672 242 C1	HOSE, thermostat by-pass housing-----	1
6	311 164 C91	CLAMP, hose-----	1
7	689 061 C1	HOUSING, thermostat-----	1
	277 232 R1	BOLT, 2-3/4"-----	1
	275 804 R1	BOLT, 3"-----	1
	25 896 R1	WASHER, 3/8" hardened-----	2
8	615 175 C91	SEAL, thermostat-----	1
9	687 018 C2	THERMOSTAT (180° - 202°F)-----	1
10	675 384 C1	GASKET, thermostat housing-----	1
11	673 162 C93	PUMP ASSY., water (8 Vane)-----	1
12	272 842 R1	RING, snap-----	1
13	627 785 C91	BEARING and SHAFT-----	1
14	NSS	SEAL, water pump (Order PACKAGE, 687 161 C92)	
15	NSS	SEAT, water pump seal (Order PACKAGE, 687 161 C92)	
16	676 320 C1	IMPELLER, water pump (8 Vane)-----	1
17	680 481 C1	PIN, dowel-----	2

COOLING

WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued (All Galion Applications)



CG-5648B

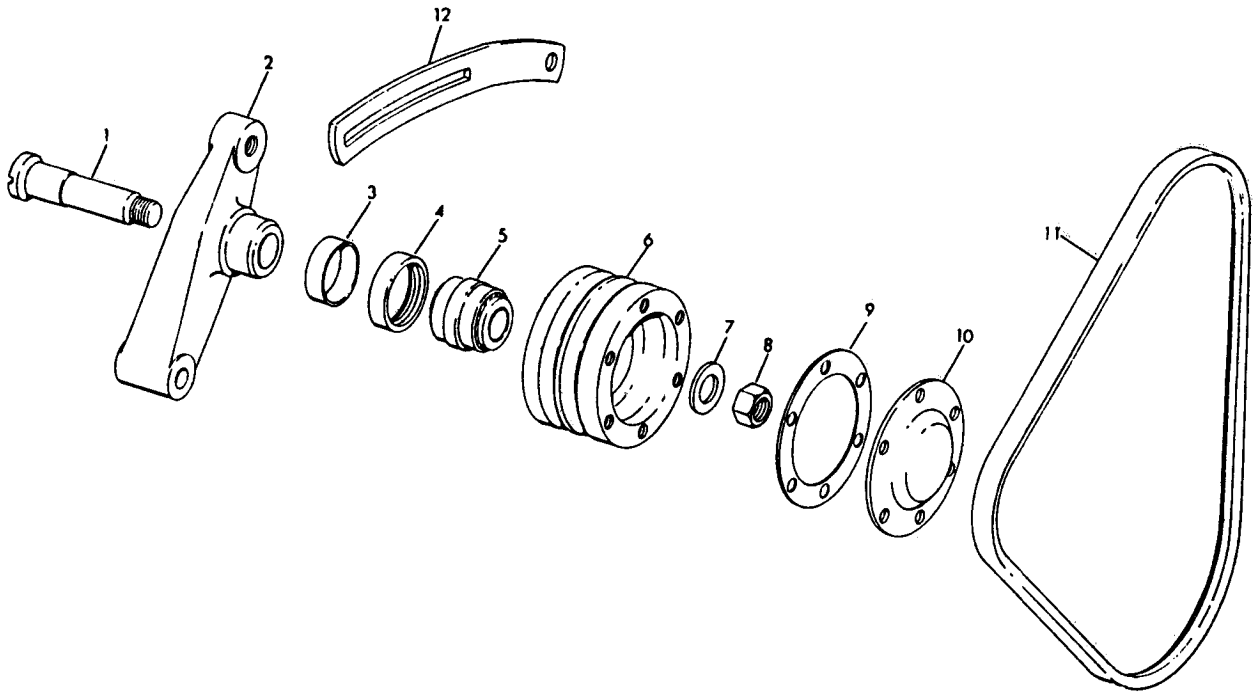
COOLING

Ref No	Part Number	Description	Quantity
WATER PUMP, THERMOSTAT AND FAN DRIVE - Continued (All Galion Applications)			
18	675 808 C1	GASKET, water pump housing-----	1
19	681 534 C1	FAN, suction (6 Blade) (%)----- LQ-157 LQ-165 LQ-157A LQ-165A	1
	681 530 C1	FAN, suction (6 Blade) (%)----- LQ-158 LQ-166A LQ-158A LQ-166B LQ-159 LQ-167 LQ-161A LQ-167A LQ-161B LQ-170	1
	277 232 R1	SCREW, hex-hd cap-----	6
	25 896 R1	WASHER, hardened-----	6
20	1802 812 C1	"O" RING, water pump (Used w/HOUSING, 675 806 C3)----	1
	687 161 C92	PACKAGE, water pump seal (Consists of SEAL, SEAT, and "O" RING, 1802 812 C1)-----	1
	444 660	PLUG, 3/8-18-----	1

(%) - For variations not listed, refer
to Chassis Parts Catalog.

COOLING

IDLER PULLEY AND RELATED PARTS
(DT-466 for 433 and 444 - 19317 and below)



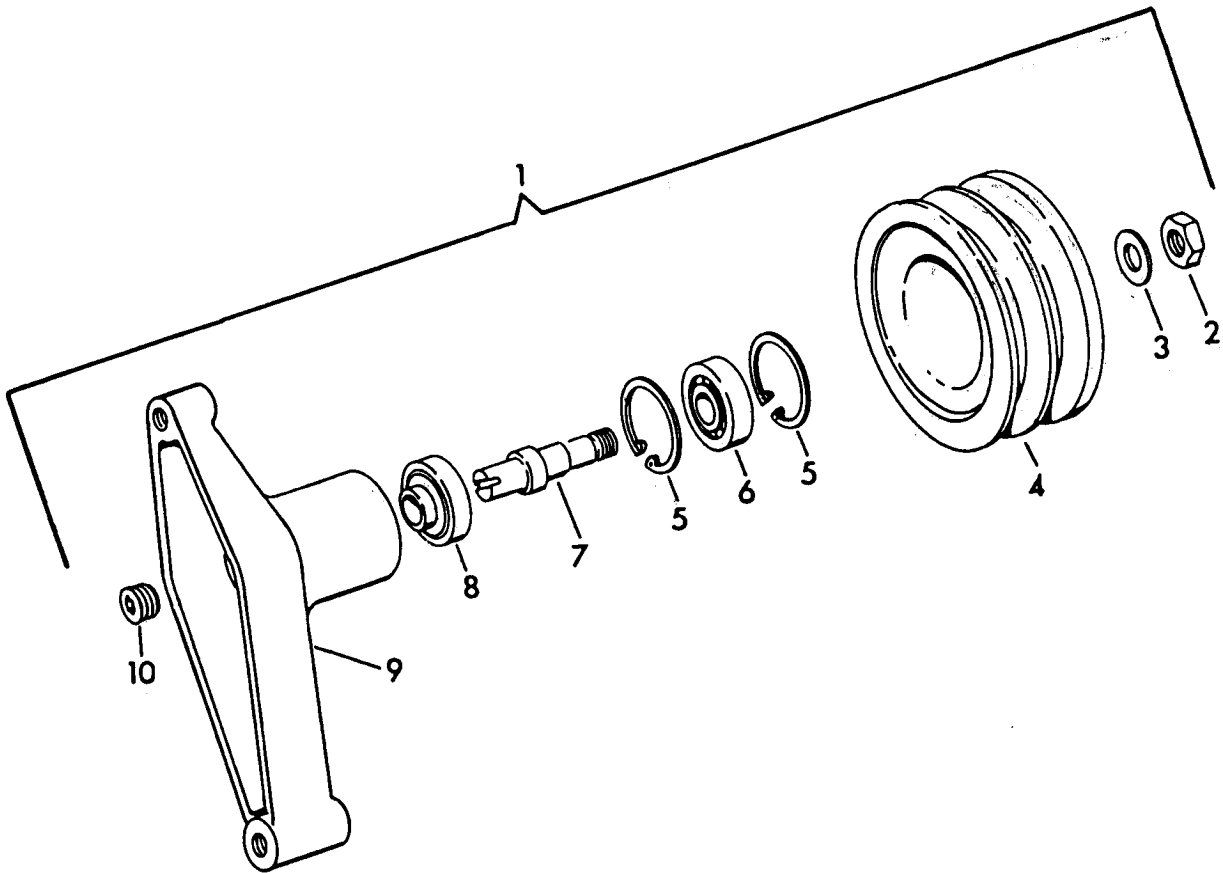
CG-6329A

COOLING

Ref No	Part Number	Description	Quantity
IDLER PULLEY AND RELATED PARTS (DT-466 for 433 and 444 - 19317 and below)			
1	680 847 C1	SHAFT, idler-----	1
2	680 863 C91	BRACKET, w/SLEEVE, 680 862 C1, idler-----	1
3	680 862 C1	SLEEVE, wear-----	1
4	680 842 C91	SEAL, idler pulley-----	1
5	680 860 C91	BEARING, idler pulley-----	1
6	680 891 C91	PULLEY, w/BEARING, 680 860 C91, idler-----	1
	24 844 R1	SCREW, hex-hd cap-----	1
	25 896 R1	WASHER, hardened-----	1
	25 522 R1	NUT-----	1
7	25 555 R1	WASHER, idler shaft-----	1
8	25 527 R1	NUT, idler shaft-----	1
9	680 849 C1	GASKET, cover-----	1
10	680 848 C1	COVER, idler pulley-----	1
	25 480 R1	SCREW, hex-hd cap-----	6
	103 319	WASHER, lock-----	6
11	673 481 C1	BELTS, matched set-----	1
12	673 473 C1	BRACE, idler-----	1
	24 862 R1	SCREW, 1/2" hex-hd cap-----	1
	24 841 R1	SCREW, 3/8" hex-hd cap-----	1
	345 409 R1	WASHER, hardened-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1

COOLING

IDLER PULLEY AND RELATED PARTS (DT-466 for 433 and 444 - 19318 and Up) (DT-466B for 433B and 444B)



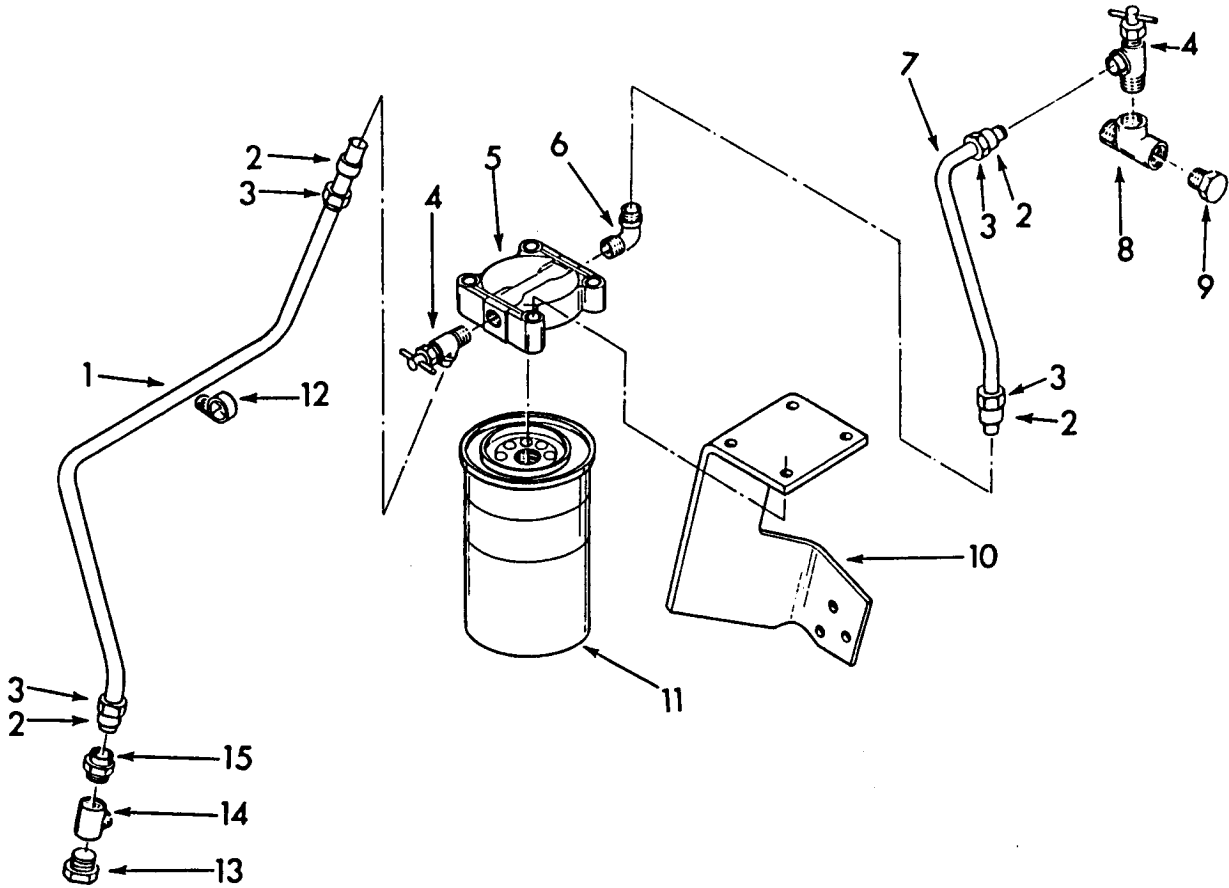
CG-6329

COOLING

Ref No	Part Number	Description	Quantity
IDLER PULLEY AND RELATED PARTS			
(DT-466 for 433 and 444 - 19318 and Up)			
(DT-466B for 433B and 444B)			
1	686 726 C91	PULLEY ASSY, idler-----	1
	25 522 R1	NUT-----	2
	21 318 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	2
2	25 758 R1	NUT-----	1
3	25 976 R1	WASHER, hardened-----	1
4	685 671 C1	PULLEY, idler-----	1
5	133 213 R1	RING, retainer-----	2
6	683 787 C91	BEARING, idler ball-----	1
7	685 669 C1	SHAFT, idler pulley-----	1
8	683 786 C91	BEARING, idler roller-----	1
9	685 670 C1	BRACKET, idler support-----	1
10	9409 949	PLUG, sq-soc pipe-----	1
	683 548 C91	BELT, fan-----	1

COOLING

COOLANT FILTER AND RELATED PARTS



CG-5649

COOLING

Ref No	Part Number	Description	Quantity
COOLANT FILTER AND RELATED PARTS			
1	689 214 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT 265 205 R1, coolant filter inlet (All DT-414 and DT-466 except TD-15C and 175C)-----	1
1	690 425 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, coolant filter inlet (DT-466 for TD-15C and 175C and all D-466, DT-414B, DT-466B, DT-466C and DTI-466C)-----	1
2	265 204 R1	SLEEVE-----	4
3	265 205 R1	NUT-----	4
4	121 894 C1	VALVE, shut off-----	2
5	427 446 C1	HEADER, filter-----	1
	140 483 H	SCREW-----	4
	115 093	WASHER, lock-----	4
	25 896 R1	WASHER, hardened-----	4
6	606 618 C1	ELBOW, 90o flex-----	1
7	689 216 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, coolant filter outlet-----	1
8	444 150	TEE, 3/8 NPTF-----	1
9	20 990 R1	PLUG, pipe (in tee)-----	1
10	689 211 C1	SUPPORT, coolant filter-----	1
	27 326 R1	WASHER, hardened-----	3
	25 678 R1	SCREW, hex-hd-----	3
	689 395 C1	SPACER (433, 433B, 444 and 444B only)-----	3
11	1207 605 H1	ELEMENT, coolant filter-----	1
12	673 193 C1	CLAMP, closed-----	1
	359 105 R1	SPACER, 3/8"-----	1
	26 269 R1	SCREW-----	1
	27 326 R1	WASHER, hardened-----	1
13	20 988 R1	PLUG, pipe-----	1
14	444 134	TEE, 1/4 NPTF-----	1
15	606 819 C1	CONNECTOR, flex tube-----	1

COOLING

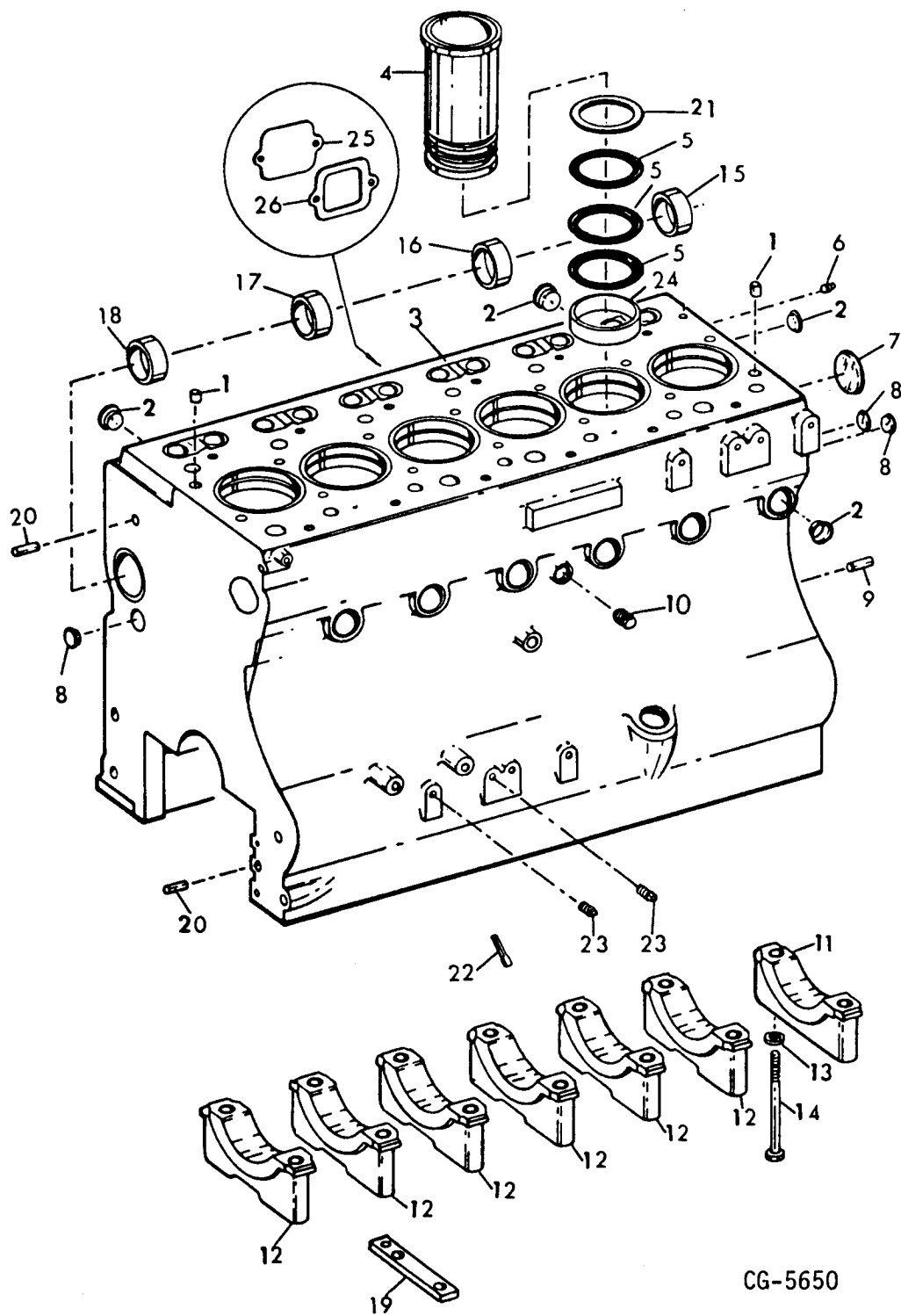
MEMORANDA

CRANKCASE

06

CRANKCASE

CRANKCASE AND RELATED PARTS



CG-5650

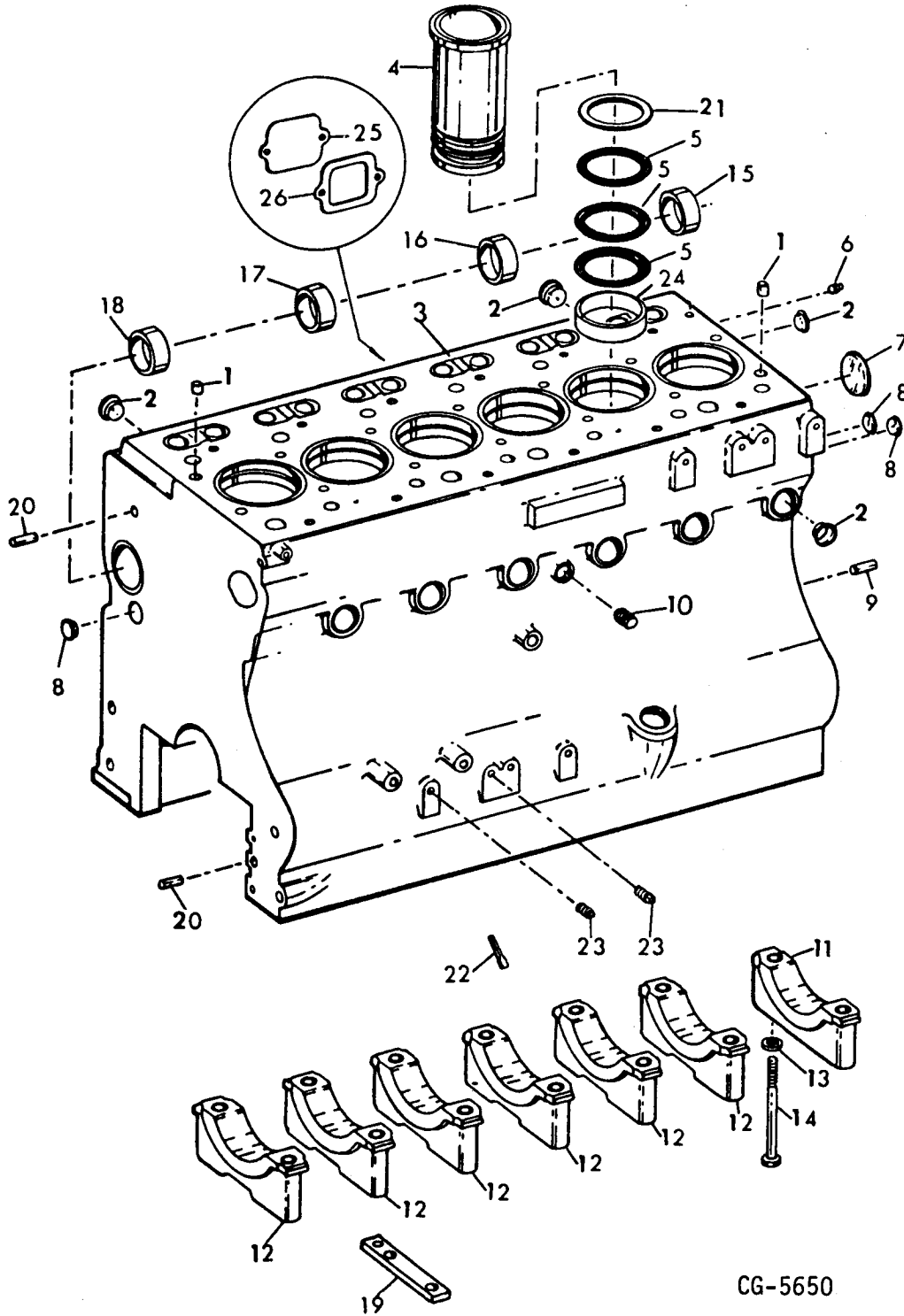
CRANKCASE

Ref No	Part Number	Description	Quantity
CRANKCASE AND RELATED PARTS			
1	684 902 C1	DOWEL, bushing-----	2
2	23 623 R1	PLUG, cup-----	9
3	1802 333 C91	PACKAGE, crankcase service (*)-----	1
		Consists of:	
		BEARING, camshaft-----	4
	685 187 C1	BOLT-----	14
		CAP, main bearing-----	7
	NSS	CRANKCASE-----	1
	684 902 C1	DOWEL-----	2
	680 484 C1	DOWEL-----	2
	680 483 C1	DOWEL-----	2
	CZG-706	DRAWING-----	1
	50 410 DA	PLUG-----	5
	327 412 R1	PLUG-----	3
	9409 949	PLUG-----	2
	23 623 R1	PLUG-----	9
	444 624	PLUG-----	1
	444 612	PLUG-----	1
	617 256 C1	SCREW-----	1
	252 018 R1	WASHER-----	14
	3072 884 R1	BALL, chrome-----	1
4	682 720 C1	SLEEVE, cylinder (Refer to "Connecting Rods and Pistons")-----	6
5	680 086 C1	"O" RING, cylinder sleeve (Refer to "Connecting Rods and Pistons")-----	6
6	444 612	PLUG, pipe (Rear Oil Gallery)-----	1
	OR		
	444 613	PLUG, pipe (Rear Oil Gallery)-----	1
7		(See Individual Engine Variation)	
8	327 412 R1	PLUG, cup-----	3
9	680 484 C1	DOWEL-----	2

(*) - When a skeleton engine, crankcase service package or crankcase gasket package is ordered for use on the TD-15C manual shift custom or the TD-12, 1 PLUG 674 965 C1 must also be ordered to be used in place of SEAL RING, 682 444 C1, which is provided with each of the service packages

CRANKCASE

CRANKCASE AND RELATED PARTS - Continued



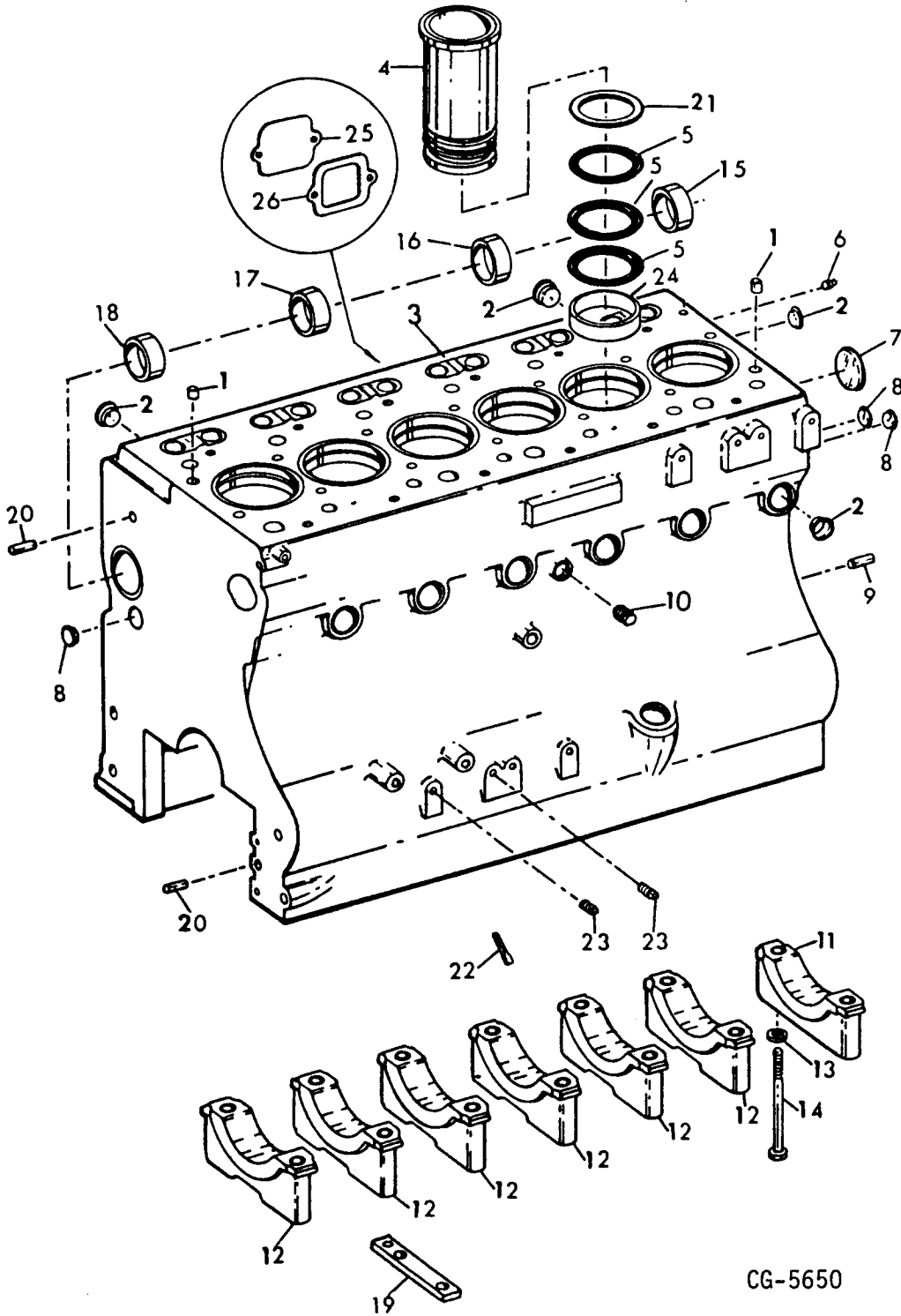
CG-5650

CRANKCASE

Ref No	Part Number	Description	Quantity
CRANKCASE AND RELATED PARTS - Continued			
10	444 624	PLUG, hex-hd - drain-----	1
	OR		
	444 625	PLUG, pipe - drain-----	1
11	680 243 C1	CAP, main bearing rear-----	1
12	680 241 C1	CAP, main bearing - front and intermediate-----	6
13		NOT USED	
14	1802 582 C1	BOLT w/FLANGE, main bearing cap-----	14
15	NSS	BEARING, camshaft rear (Order PACKAGE, 680 117 C1)	
16	NSS	BEARING, camshaft intermediate rear (Order PACKAGE, 680 117 C1)	
17	NSS	BEARING, camshaft intermediate front (Order PACKAGE, 680 117 C1)	
18	NSS	BEARING, camshaft front (Order PACKAGE, 680 117 C1)	
19	673 761 C1	BRACKET, suction pipe support (For 530, H-80B and 540 only)-----	1
20	680 483 C1	DOWEL-----	2
21		SHIM, cylinder sleeve (Order PACKAGE, 680 333 C92)---	AR
22	343 464 R1	TUBE, oil jet-----	12
23	9409 949	PLUG, sq-soc hd pipe-----	2
24	687 002 C1	INSERT, crankcase lower bore-----	AR
25	690 166 C1	COVER, breather opening-----	1
	25 493 R1	BOLT, 5/16-18 x 1"-----	1
	116 120	WASHER, 5/16" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	1
26	690 231 C2	GASKET, breather cover-----	1
	7 911 T	BALL, bearing, 1/4D-----	1
	3072 884 R1	BALL, 13/32 chrome-----	1

CRANKCASE

CRANKCASE AND RELATED PARTS - Continued



CRANKCASE

Ref No	Part Number	Description	Quantity
CRANKCASE AND RELATED PARTS - Continued			
680 117 C1		PACKAGE, camshaft bearing (Consists of four BEARINGS)	1
680 333 C92		PACKAGE, cylinder sleeve shim-----	AR
		Consists of:	
		SHIM (.010)-----	1
		SHIM (.020)-----	1
		SHIM (.002)-----	2
		SHIM (.004)-----	2
		SHIM (.032)-----	2
674 399 C92		PACKAGE, crankcase gasket-----	1
		Consists of:	
677 711 C1		BAFFLE, breather-----	1
682 945 C1		GASKET, flywheel housing-----	1
59 658 D		GASKET, oil pan drain plug-----	1
675 609 C1		GASKET, injection pump adapter-----	1
675 398 C1		GASKET, lube oil filter base-----	1
261 624 R1		GASKET, regulator valve cap-----	1
673 185 C1		"O" RING, breather pipe-----	1
675 513 C1		SEAL, oil cooler mounting-----	2
682 444 C1		RING, camshaft seal - rear-----	1
680 084 C93		PACKAGE, front cover gasket-----	1
50 410 DA		PLUG, hex-soc-----	5

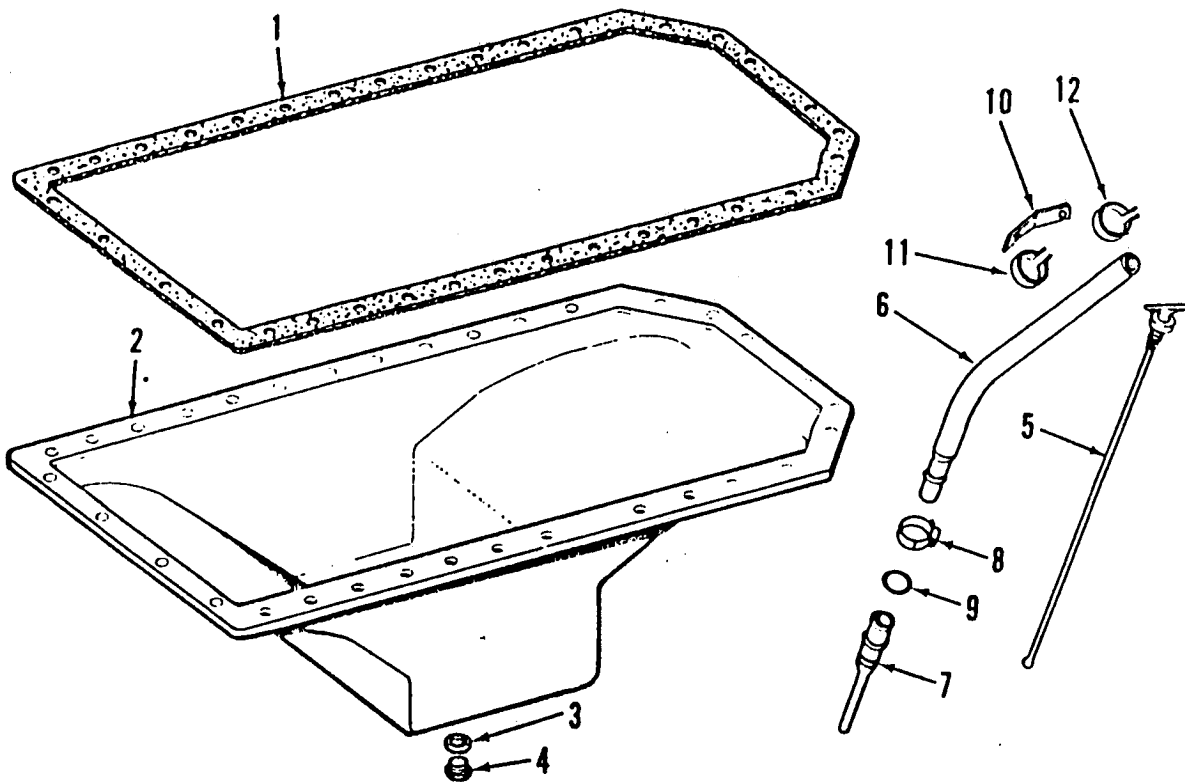
ENGINE VARIATIONS

DT-466B for TD-15C Manual Shift Custom
and DT-466B for TD-12)

7	674 965 C1	PLUG, camshaft seal - rear expansion-----	1
		<u>(all Variations Except DT-466B for TD-15C Manual Shift Custom and DT-466B for TD-12)</u>	
7	682 444 C1	RING, camshaft seal - rear-----	1

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE (D-466 and DT-466B for TD-12)



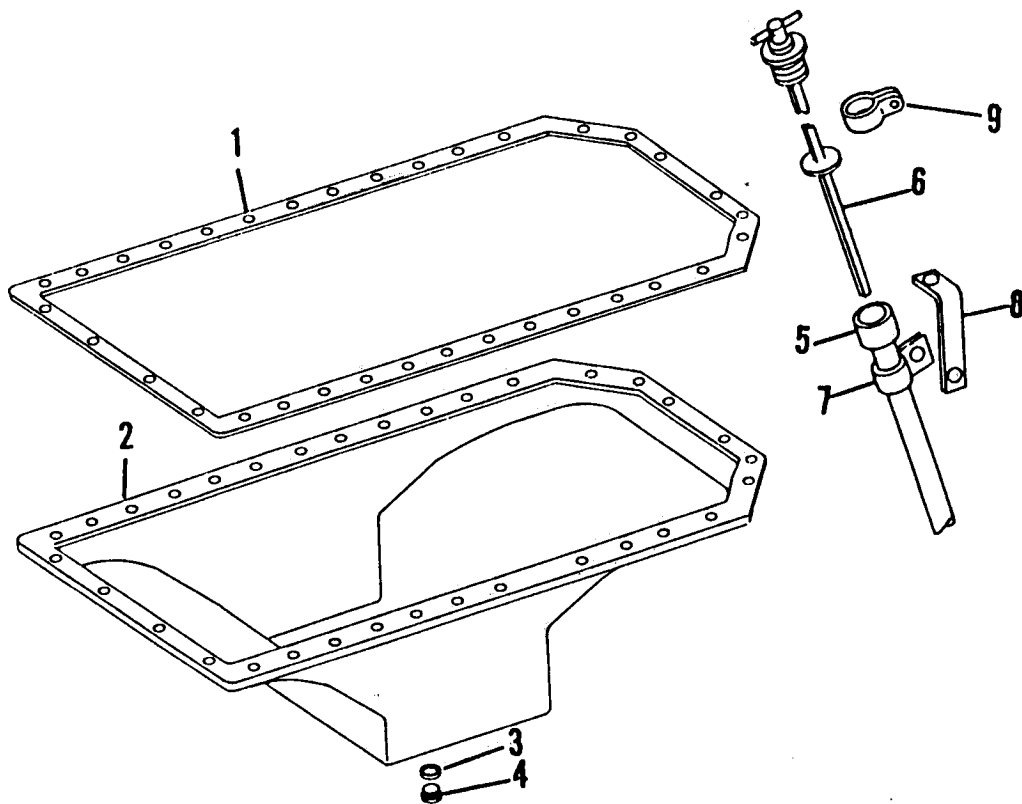
CG-8583A

CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE (D-466 and DT-466B for TD-12)			
1	671 827 C1	GASKET, oil pan-----	1
2	671 826 C91 677 490 C1	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil----- SCREW, 1" hex-hd cap-----	1 34
3	59 658 D	GASKET, plug-----	1
4	688 067 C1	PLUG, 7/8" hex-hd pipe-----	1
5	691 795 C1	GAUGE, oil level-----	1
6	691 791 C1	TUBE, oil filler and oil level gauge - upper-----	1
7	691 846 C1	TUBE, oil filler and oil level gauge - lower-----	1
8	690 835 C1	CLAMP, tube-----	1
9	60 352 D	GASKET, screen-----	1
10	1800 323 C1 24 846 R1 25 544 R1	BRACKET, oil filler tube----- SCREW, 4-1/2"----- WASHER, 3/8" hardened-----	1 1 1
11	674 519 C1 24 841 R1 25 896 R1 115 093 25 522 R1	CLAMP, tube----- SCREW, 1-1/2"----- WASHER, 3/8" hardened----- WASHER, 3/8" lock----- NUT, 3/8" hex-----	1 1 2 1 1
12	623 761 C1	CLAMP-----	1

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE
(DT-466 for TD-15C and 175C)
(DT-466B for TD-15C and 175C)
(DT-466C for TD-15C and 175C)



CG-5651A

CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE			
(DT-466 for TD-15C and 175C)			
(DT-466B for TD-15C and 175C)			
(DT-466C for TD-15C and 175C)			
1	671 827 C1	GASKET, oil pan-----	1
2		(See Individual Engine Variation)	
3	59 658 D	GASKET, plug-----	1
4	688 067 C1	PLUG, drain-----	1
5	673 352 C1	SLEEVE, oil level gauge-----	1
6		(See Individual Engine Variation)	
7	80 547 R1	CLIP, gauge support - # and below-----	1
	25 480 R1	SCREW, hex-hd cap-----	1
	27 616 R1	WASHER, 1/4" hardened-----	1
	23 232 R1	NUT, 1/4" (Type 8)-----	1
	103 341	WASHER, 3/8" hardened-----	1
	80 547 R1	CLIP, gauge support - # and up-----	1
	25 482 R1	BOLT, 1/4-20 x 7/8"-----	1
	27 616 R1	WASHER, 1/4" hardened-----	1
	25 519 R1	NUT, 1/4" NC PHC 8-----	1
	103 341	WASHER, 1/4" lock-----	1
8	673 355 C1	SUPPORT, oil level gauge - # and below-----	1
	24 840 R1	SCREW, hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	673 355 C1	SUPPORT, oil level gauge - # and up-----	1
	140 483 H	BOLT, 3/8-16 x 1-1/4" hex-hd-----	1
	115 093	WASHER, 3/8" lock-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
9	703 459 C1	CLAMP-----	1

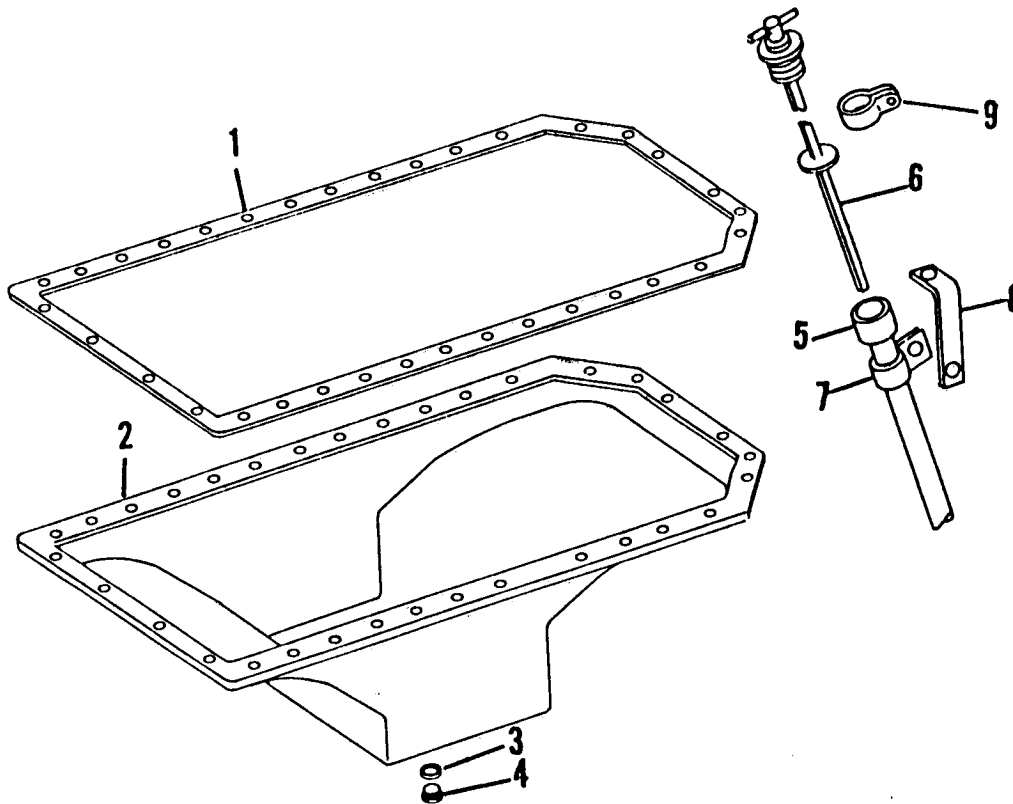
CRANKCASE

OIL PAN AND OIL LEVEL GAUGE - Continued

(DT-466 for TD-15C and 175C)

(DT-466B for TD-15C and 175C)

(DT-466C for TD-15C and 175C)



CG-5651A

CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE - Continued			
(DT-466 for TD-15C and 175C)			
(DT-466B for TD-15C and 175C)			
(DT-466C for TD-15C and 175C)			

ENGINE VARIATIONS

(TD-15C)

2	671 826 C91	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil-----	1
	677 490 C1	SCREW w/WASHER, hex-hd cap-----	34
6	683 131 C1	GAUGE, oil level-----	1

(17C - 470932 and below) (*)

2	680 118 C91	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil-----	1
	688 099 C1	SCREW w/WASHER, hex-hd cap-----	34
6	683 131 C1	GAUGE, oil level-----	1

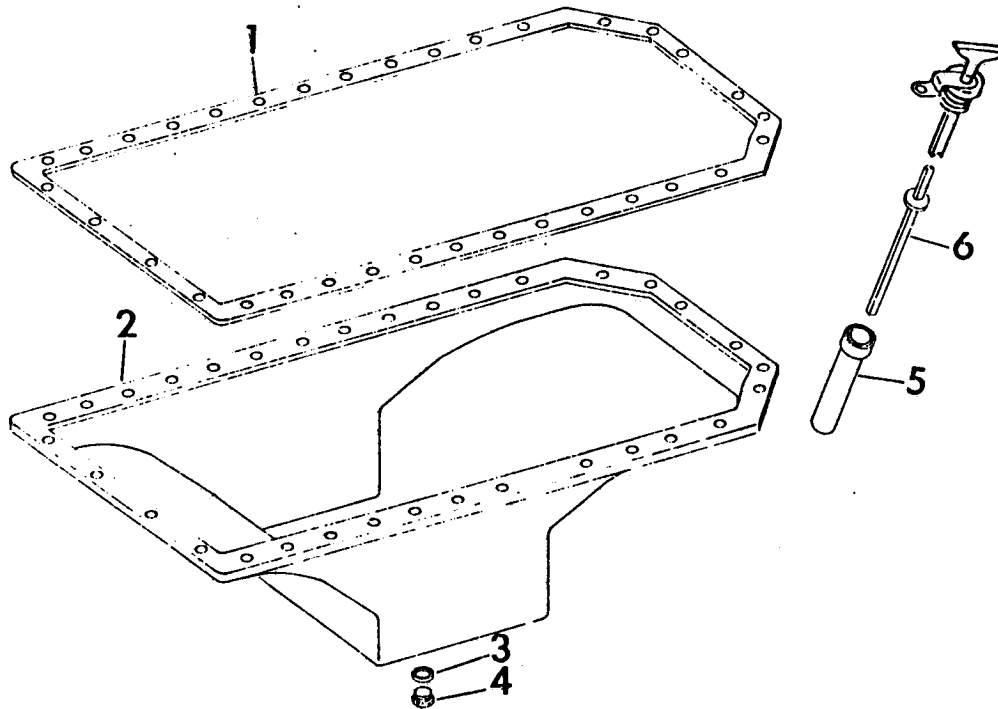
(175C - 470932 and below) (*)

2	1801 398 C91	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil-----	1
	677 490 C1	SCREW w/WASHER, hex-hd cap-----	30
	690 358 C1	SCREW w/WASHER, (at Flywheel Housing)-----	4
6	1801 148 C1	GAUGE, oil level-----	1

(*) - Reference Service Bulletin A-12D-60C

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE
(DT-414 for E-200)
(DT-466 for 412, 433 and 444)



CG-6330

CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE (DT-414 for E-200) (DT-466 for 412, 433 and 444)			
1	671 827 C1	GASKET, oil pan-----	1
2	671 826 C91 677 490 C1	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil----- SCREW, 1" hex-hd cap-----	1 34
3	59 658 D	GASKET, plug-----	1
4	688 067 C1	PLUG, 7/8" hex-hd pipe-----	1
5		(See Individual Engine Variation)	
6		(See Individual Engine Variation)	

ENGINE VARIATIONS

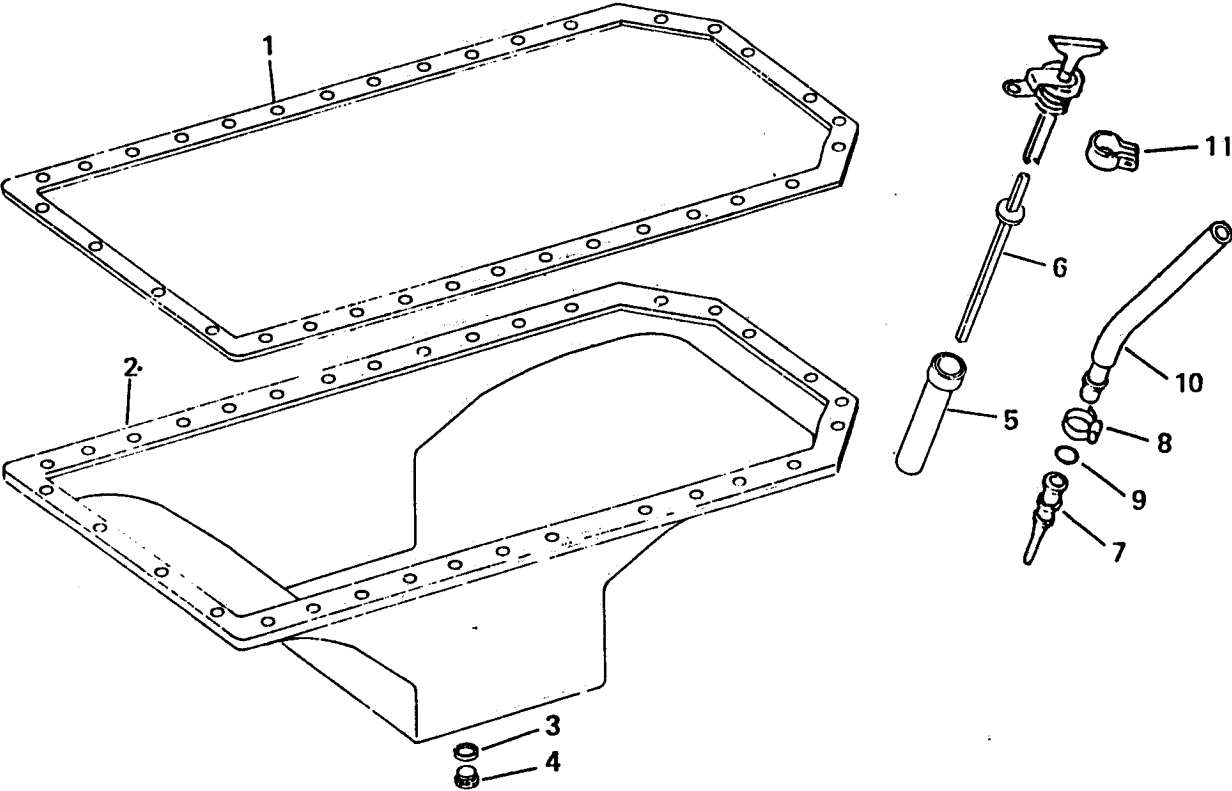
(DT-414 for E-200)

(DT-466 for 412)

5	673 488 C1	TUBE, oil filler-----	1
6	648 675 C1	GAUGE, oil level-----	1
<u>(DT-466 for 433 and 444)</u>			
5	676 199 C1	TUBE, oil filler-----	1
6	665 664 C1	GAUGE, oil level-----	1

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE
(DT-466 for 412, 412B, 433B and 444B)



CG-6330A

CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE (DT-466 for 412, 412B, 433B and 444B)			
1	671 827 C1	GASKET, oil pan-----	1
2	671 826 C91 677 490 C1	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil----- SCREW, 1" hex-hd cap-----	1 34
3	59 658 D	GAKET, plug-----	1
4	688 067 C1	PLUG, 7/8" hex-hd pipe-----	1
5		(See Individual Engine Variation)	
6		(See Individual Engine Variation)	
7		(See Individual Engine Variation)	
8		(See Individual Engine Variation)	
9		(See Individual Engine Variation)	
10	623 761 C1	CLAMP, lock-----	1
11		(See Individual Engine Variation)	

ENGINE VARIATIONS

(DT-466B for 412 and 412B)

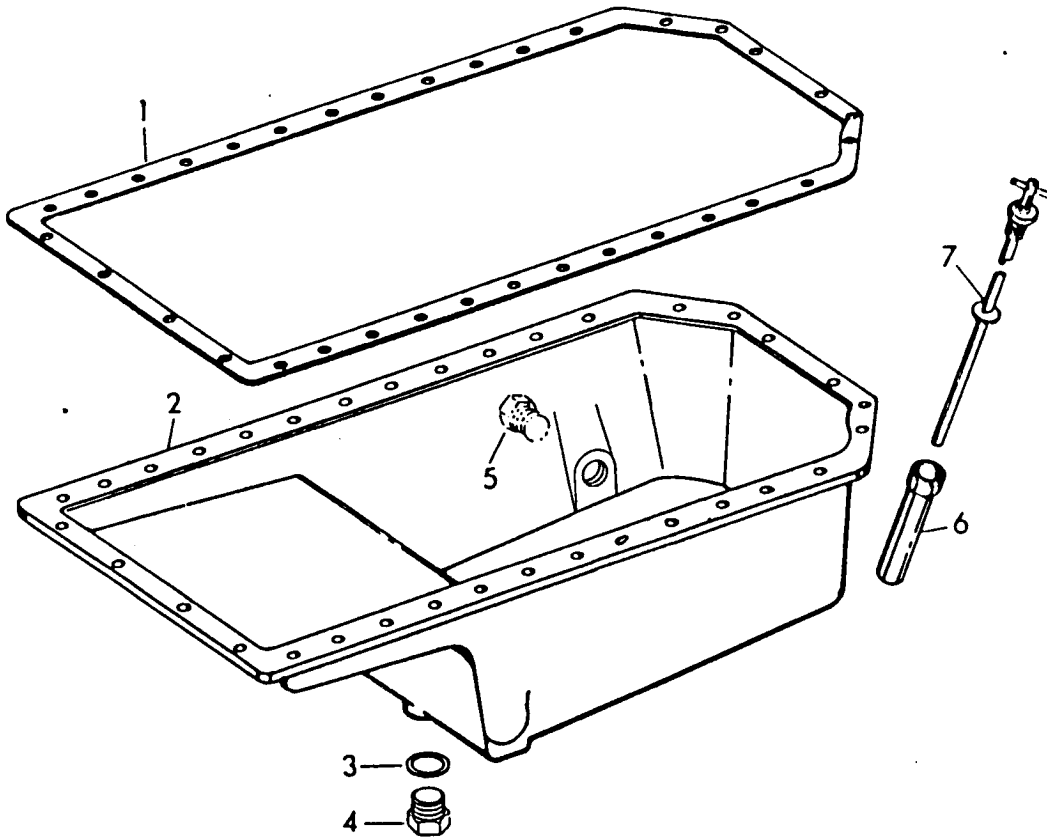
5	673 488 C1	TUBE, oil filler - # and below-----	1
6	648 675 C2	GAUGE, oil level-----	1
7	691 846 C1	TUBE, oil level gauge - # and up-----	1
8	690 835 C1	CLAMP, tube - # and up-----	1
9	60 352 D	"O" RING - # and up-----	1
11	691 847 C1	TUBE, oil filler - # and up-----	1

(DT-466B for 433B and 444B)

6	665 664 C1	GAUGE, oil level-----	1
7	691 846 C1	TUBE, oil level gauge-----	1

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE
(DT-414 for 530 and H-65C)
(DT-466 for H-80B)



CG-5652

CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE			
(DT-414 for 530 and H-65C)			
(DT-466 for H-80B)			
1	671 827 C1	GASKET, oil pan-----	1
2		(See Individual Engine Variation)	
3	59 658 D	GASKET, drain plug-----	1
4	688 067 C1	PLUG, drain-----	1
5		(See Individual Engine Variation)	
6		(See Individual Engine Variation)	
7		(See Individual Engine Variation)	

ENGINE VARIATIONS

(DT-414 for H-65C)

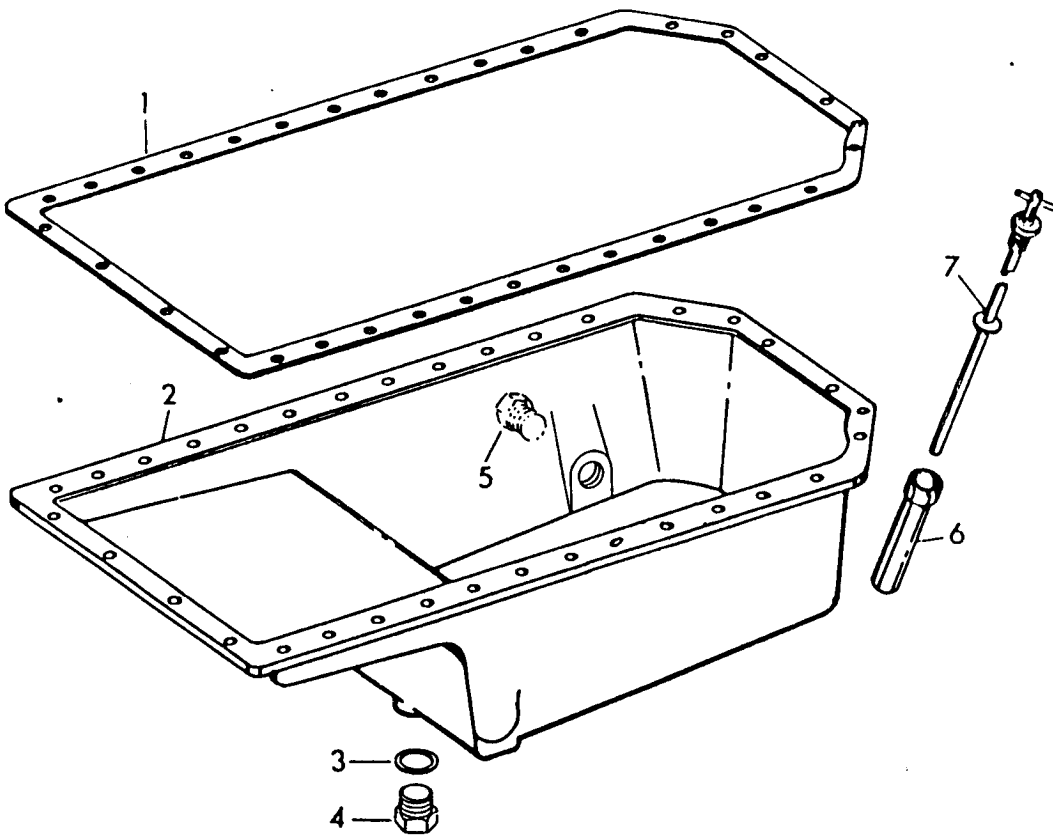
2	673 877 C92	PAN w/PLUG, 445 096 and 688 067 C1 and GASKET, 59 658 D, oil-----	1
	26 031 R1	SCREW, hex-hd cap - # and below-----	34
	27 326 R1	WASHER, hardened - # and below-----	34
	690 358 C1	SCREW, w/WASHER - # and up-----	34
5	445 096	PLUG, 3/4" hex-hd-----	1
6	676 199 C1	TUBE, oil filler - 96870 and below-----	1
	673 488 C1	TUBE, oil filler - 96871 and up-----	1
7	673 878 C2	GAUGE, oil level - 96870 and below-----	1
	686 760 C1	GAUGE, oil level - 96871 and up-----	1

(DT-414 for 530)

2	689 329 C91	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil-----	1
	26 031 R1	SCREW, hex-hd cap - # and below-----	34
	27 326 R1	WASHER, hardened - # and below-----	34
	690 358 C1	SCREW, w/WASHER - # and up-----	34
6	673 488 C1	TUBE, oil filler-----	1
7	686 760 C1	GAUGE, oil level-----	1

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE - Continued
(DT-414 for 530 and H-65C)
(DT-466 for H-80B)



CG-5652

CRANKCASE

Ref No	Part Number	Description	Quantity
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OIL PAN AND OIL LEVEL GAUGE - Continued
 (DT-414 for 530 and H-65C)
 (DT-466 for H-80B)

ENGINE VARIATIONS - Continued

(DT-466 for H-80B)

2	673 877 C92	PAN w/PLUG, 445 096 and 688 067 C1 and GASKET, 59 658 D, oil-----	1
	26 031 R1	SCREW, hex-hd cap - 39483 and below-----	34
	27 326 R1	WASHER, hardened - 39483 and below-----	34
	690 358 C1	SCREW, w/WASHER - 39484 and up-----	34
5	445 096	PLUG, 3/4" hex-hd-----	1
6	676 199 C1	TUBE, oil filler - 18597 and below-----	1
	673 488 C1	TUBE, oil filler - 18598 and up-----	1
7	672 412 C3	GAUGE, oil level - 18597 and below-----	1
	686 760 C1	GAUGE, oil level - 18598 and up-----	1

CRANKCASE

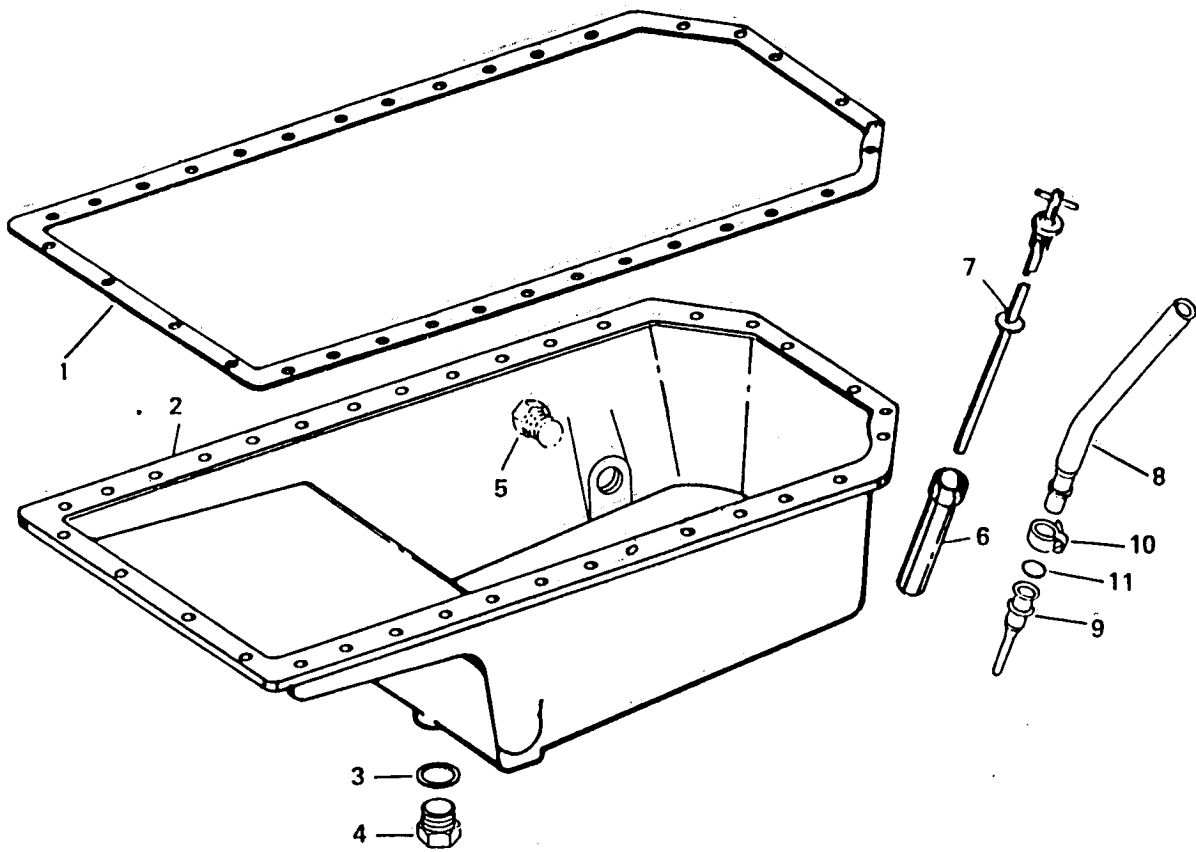
OIL PAN AND OIL LEVEL GAUGE

(DT-414B for 530)

(DT-466B for H-80B and 540)

(DT-466C for 530)

(DTI-466C FOR 540)



CG-5652A

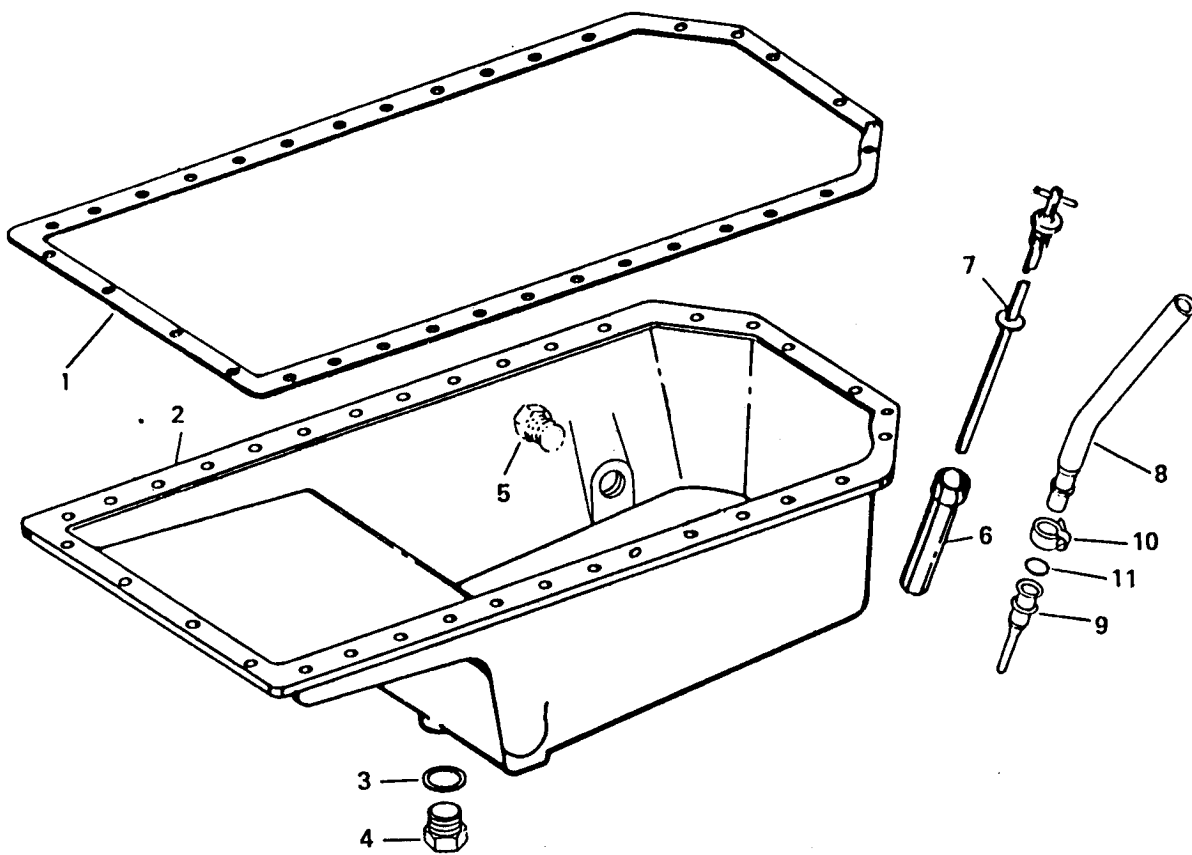
CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE			
(DT-414B for 530)			
(DT-466B for H-80B and 540)			
(DT-466C for 530)			
(DTI-466C FOR 540)			
1	671 827 C1	GASKET, oil pan-----	1
2		(See Individual Engine Variation)	
3	59 658 D	GASKET, drain plug-----	1
4	688 067 C1	PLUG, drain-----	1
5		(Refer to Chassis Parts Catalog)	
6	673 488 C1	TUBE, oil filler w/extension tube----- DT-414B for 530 - 154900 and below DT-466B for H-80B - 138125 and below DT-466B for 540 - 138128 and below	1
7	686 760 C2	GAUGE, oil level-----	1
8	691 847 C1	TUBE, oil filler----- DT-414B for 530 - 154901 and up DT-466B for H-80B - 138 126 and up DT-466B for 540 - 138129 and up DT-466C for 530 DTI-466C for 540	1
9	691 846 C1	TUBE, oil level gauge----- DT-414B for 530 - 154901 and up DT-466B for H-80B - 138 126 and up DT-466B for 540 - 138129 and up DT-466C for 530 DTI-466C for 540	1
10	690 835 C1	CLAMP, tube----- DT-414B for 530 - 154901 and up DT-466B for H-80B - 138 126 and up DT-466B for 540 - 138129 and up DT-466C for 530 DTI-466C for 540	1
11	60 352 D	GASKET, screen----- DT-414B for 530 - 154901 and up DT-466B for H-80B - 138 126 and up DT-466B for 540 - 138129 and up DT-466C for 530 DTI-466C for 540	1

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE - Continued

(DT-414B for 530)
(DT-466B for H-80B and 540)
(DT-466C for 530)
(DTI-466C FOR 540)



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CRANKCASE

Ref No	Part Number	Description	Quantity
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OIL PAN AND OIL LEVEL GAUGE - Continued

(DT-414B for 530)
(DT-466B for H-80B and 540)
(DT-466C for 530)
(DTI-466C FOR 540)

ENGINE VARIATIONS

(DT-414B and DT-466C for 530)
(DT-466B and DTI-466C for 540)

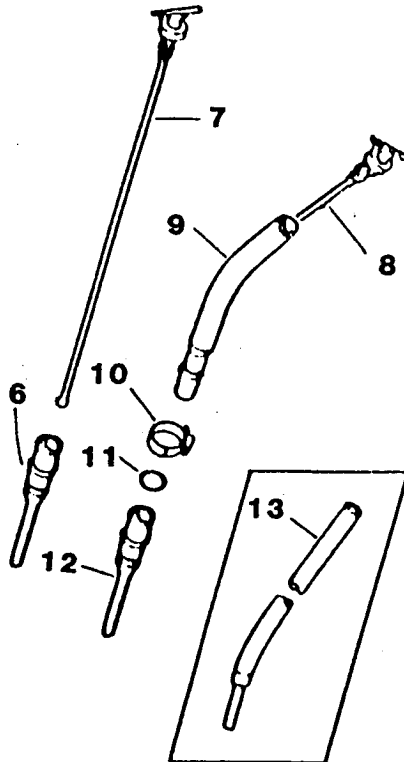
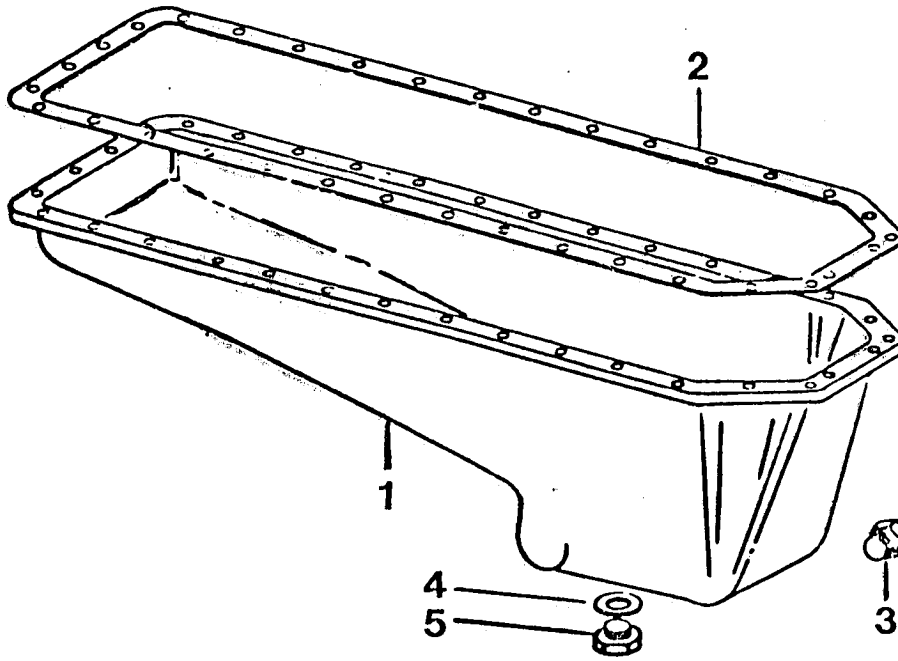
2	689 329 C91 677 490 C1	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil----- SCREW w/WASHER-----	1 34
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(DT-466B for H-80B)

2	673 877 C92 690 358 C1	PAN w/PLUG, 445 096 and 688 067 C1 and GASKET, 59 658 D, oil----- SCREW, w/WASHER - 39484 and up-----	1 34
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CRANKCASE

OIL PAN AND OIL LEVEL GAUGE (All Galion Applications)



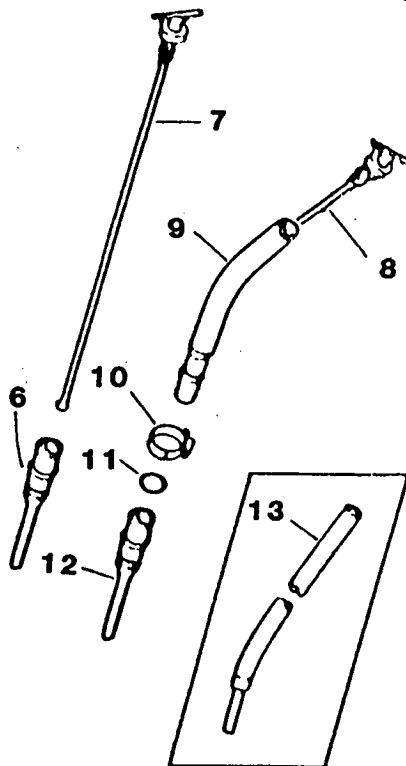
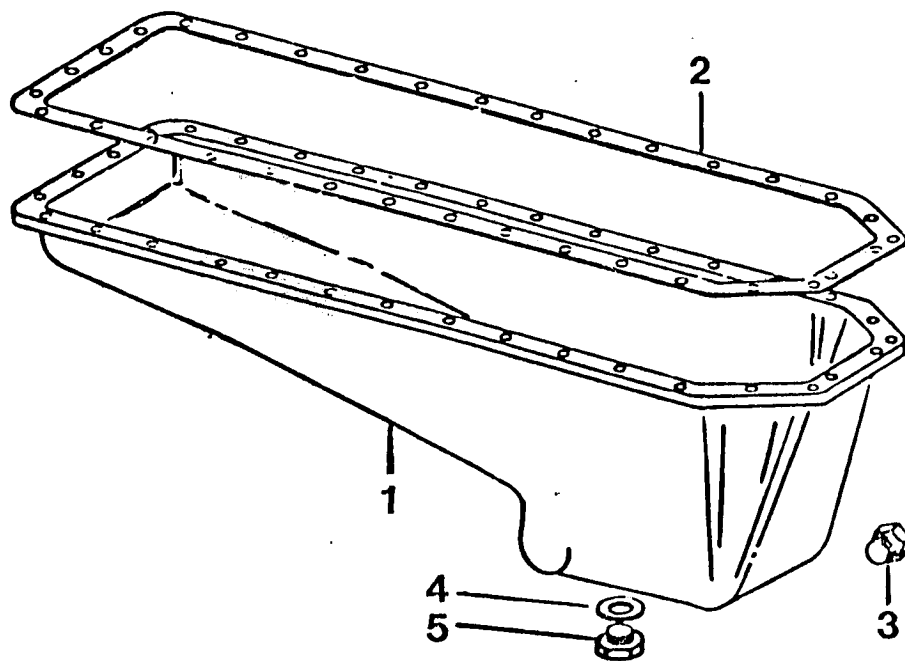
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CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE (All Galion Applications)			
1	689 329 C91	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil----- (Replaces 673 877 C92) LQ-166A LQ-167A LQ-166B LQ-168- LQ-167 LQ-170	1
	677 490 C1	SCREW w/WASHER (Used w/PAN, 689 329 C91)-----	34
	690 358 C1	SCREW w/WASHER (Used w/PAN, 673 877 C92)-----	33
1	673 877 C92	PAN w/PLUG, 445 096 and 688 067 C1 and GASKET, 59 658 D, oil----- LQ-157 LQ-159 LQ-165 LQ-157A L1-161A LQ-165A LQ-158 LQ-161B LQ-158A LQ-163	1
	690 358 C1	SCREW, w/WASHER-----	33
1	1801 398 C91	PAN w/GASKET, 59 658 D and PLUG, 688 067 C1, oil----- A400E A500E A566E S450E A550 A600 S500E A556 A606 A450E A560E	1
	677 490 C1	SCREW w/WASHER-----	30
	691 634 C1	NUT w/WASHER (at flywheel housing)-----	4
2	671 827 C1	GASKET, oil pan-----	1
3	9409 949	PLUG, 3/4" NPTF----- LQ-167 L1-168 L1-167A LQ-170	1
3	444 836	PLUG, 3/4"-13 hex-hd----- LQ-157 LQ-159 LQ-165 LQ-157A LQ-161A LQ-165A LQ-158 LQ-161B LQ-166A LQ-158A LQ-163 LQ-166B	1
4	59 658 D	GASKET, drain plug-----	1
5	688 067 C1	PLUG, drain-----	1
6	673 352 C1	SLEEVE, oil level gauge (LQ-163)-----	1
	673 355 C1	SUPPORT-----	1
	151 629 R1	SCREW, 3/8" x 1" hex-hd cap-----	1
	103 321	WASHER, 3/8" lock-----	1
	80 547 R1	CLIP, gauge support-----	1

CRANKCASE

OIL PAN AND OIL LEVEL GAUGE (All Galion Applications)



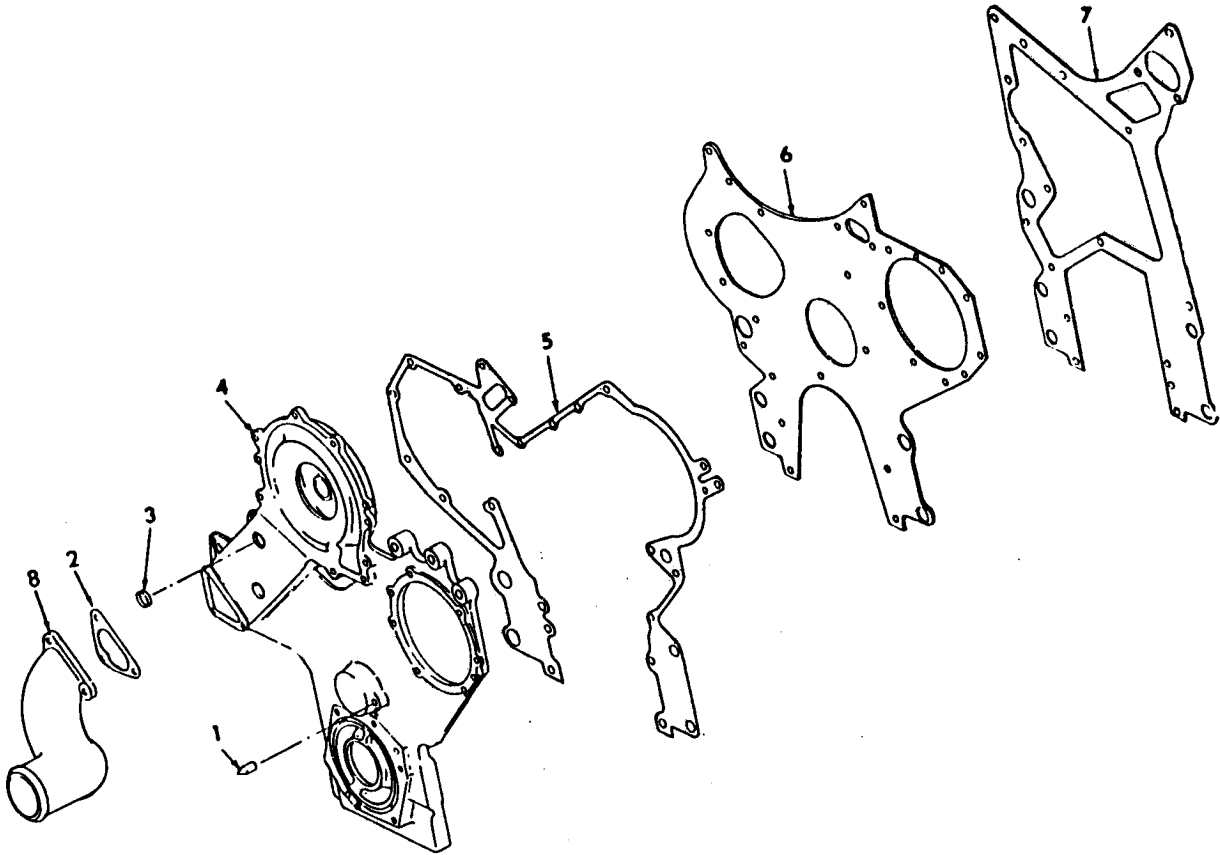
CG-5652B

CRANKCASE

Ref No	Part Number	Description	Quantity
OIL PAN AND OIL LEVEL GAUGE (All Galion Applications)			
6	691 846 C1	TUBE, oil level gauge (Replaces 676 199 C1)----- LQ-157 LQ-166B S450E A560E LQ-158 LQ-167 S500E A566E LQ-159 LQ-167A A450E A600 LQ-161A LQ-168 A500E A606 LQ-165 LQ-170 A550 LQ-166A A400E A556	1
7	672 412 C3	GAUGE, oil level----- LQ-159	1
	673 878 C2	GAUGE, oil level----- LQ-157 LQ-166A LQ-168 LQ-158 LQ-166B LQ-170 LQ-161 LQ-167 LQ-165 LQ-167A	1
	1808 371 C1	GAUGE, oil level----- A400E A500E A566E S450E A550 A600 S500E A556 A606 A450E A560E	1
	683 131 C1	GAUGE, oil level----- LQ-163	1
8	686 760 C2	GAUGE, oil level----- LQ-157A LQ-161B LQ-158A LQ-165A	1
9	691 847 C1	TUBE, oil filler (Upper)----- LQ-157A - 54528 and up LQ-161B - 140437 and up LQ-158A - 140843 and up LQ-165A - 54544 and up	1
10	690 835 C1	CLAMP, tube----- LQ-157A - 54528 and up LQ-161B - 140437 and up LQ-158A - 140843 and up LQ-165A - 54544 and up	1
11	60 352 D	GASKET, screen----- LQ-157A - 54528 and up LQ-161B - 140437 and up LQ-158A - 140843 and up LQ-165A - 54544 and up	1
12	691 846 C1	TUBE, oil level gauge (lower)----- LQ-157A - 54528 and up LQ-161B - 140437 and up LQ-158A - 140843 and up LQ-165A - 54544 and up	1
13	673 488 C1	TUBE, oil filler----- LQ-157A - 54527 and below LQ-161B - 140436 and below LQ-158A - 140842 and below LQ-165A - 54543 and below	1

CRANKCASE

FRONT COVER, FRONT COVER PLATE AND RELATED PARTS



CG-5653A

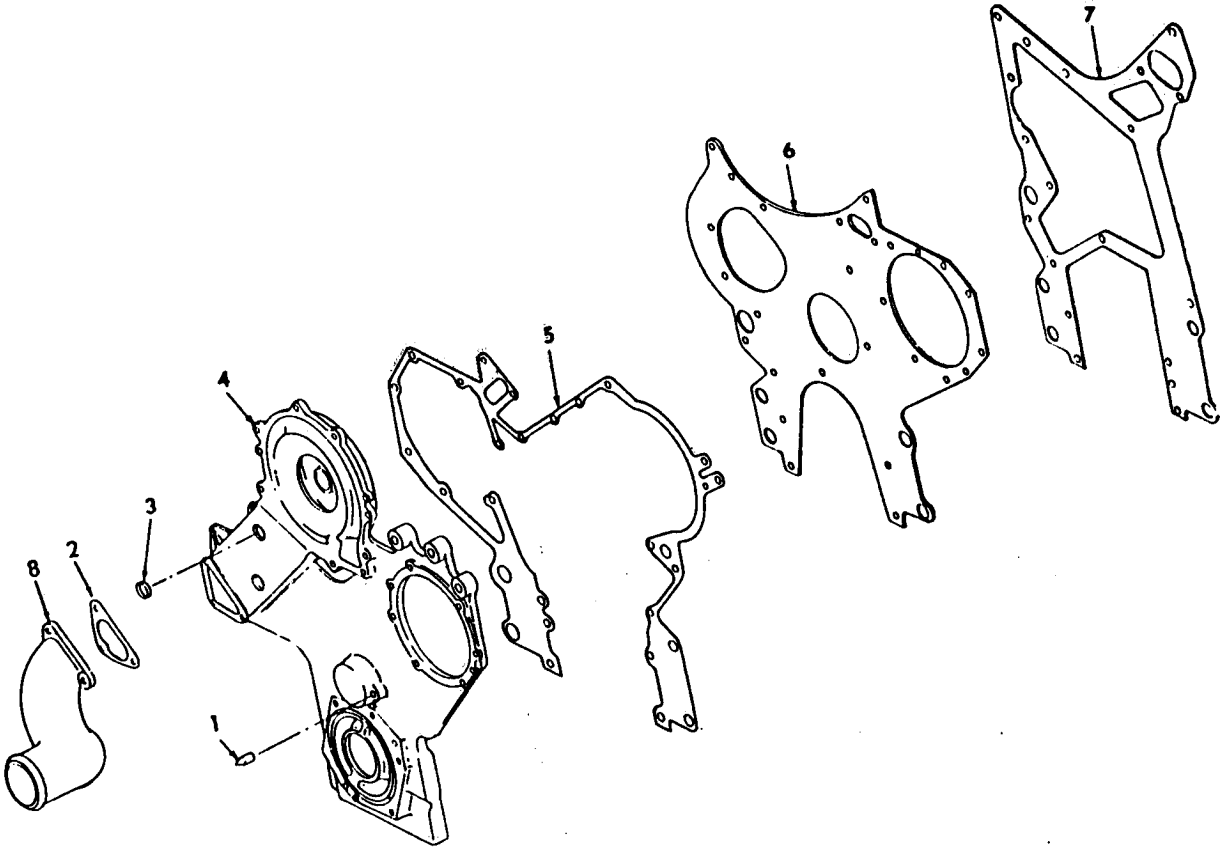
CRANKCASE

Ref No	Part Number	Description	Quantity
FRONT COVER, FRONT COVER PLATE AND RELATED PARTS			
1	367 572 R1	POINTER, timing-----	1
2	673 396 C1	GASKET, water inlet elbow-----	1
3	23 624 R1	PLUG, cup-----	3
4	1802 246 C91	PACKAGE, crankcase front cover (+)----- D-466 - 57803 and below DT-466B - 194972 and below DT-466C and DTI-466C - 466775 and below Consists of:	1
	17 012 R1	BALL-----	2
	NSS	COVER-----	1
	CZG 1845	DRAWING-----	1
	691 379 C1	INDICATOR-----	1
	23 624 R1	PLUG-----	3
	367 572 R1	POINTER-----	1
	685 763 C1	POINTER-----	1
	445 751	PLUG-----	2
	25 654 R1	BOLT, 5/16" x 1-1/2" hex-hd cap-----	4
	25 678 R1	BOLT, 5/16" x 3-1/4" hex-hd cap-----	3
	25 520 R1	NUT, 5/16"-----	1
	25 234 R1	BOLT, 5/16" x 2-1/4" hex-hd cap-----	5
	25 228 R1	BOLT, 5/16" x 3/4" hex-hd cap-----	2
	24 621 R1	BOLT, 3/8" x 2-1/4" hex-hd cap-----	1
	27 326 R1	WASHER, 5/16" hardened-----	15
	25 896 R1	WASHER, 3/8" hardened-----	1
	17 012 R1	BALL, 3/8" chrome-----	1
	445 751	PLUG, 1/2" sq-hd pipe-----	2
4	1802 246 C91	PACKAGE, crankcase front cover (+)----- D-466 - 57804 and up DT-466B - 194973 and up DT-466C and DTI-466C - 466776 and up Consists of:	1
	17 012 R1	BALL-----	2
	NSS	COVER-----	1
	EMD 1126	DRAWING-----	1
	691 379 C1	INDICATOR-----	1
	23 624 R1	PLUG-----	3
	367 572 R1	POINTER-----	1
	445 751	PLUG-----	2

(+) - Reference Service Bulletin A-12D-60B

CRANKCASE

FRONT COVER, FRONT COVER PLATE AND RELATED PARTS - Continued



CG-5653A

CRANKCASE

Ref No	Part Number	Description	Quantity
FRONT COVER, FRONT COVER PLATE AND RELATED PARTS - Continued			
	25 654 R1	BOLT, 5/16" x 1-1/2" hex-hd cap-----	2
	25 678 R1	BOLT, 5/16" x 3-1/4" hex-hd cap-----	3
	25 520 R1	NUT, 5/16"-----	1
	25 234 R1	BOLT, 5/16" x 2-1/4" hex-hd cap-----	7
	26 677 R1	BOLT, 5/16" x 3/4"-----	2
	24 621 R1	BOLT, 3/8" x 2-1/4" hex-hd cap-----	1
	27 326 R1	WASHER, 5/16" hardened-----	15
	25 896 R1	WASHER, 3/8" hardened-----	1
	444 630	PLUG, 1/2" hex-hd pipe-----	2
5	675 813 C1	GASKET, crankcase front cover-----	1
6	675 811 C1	PLATE, crankcase front-----	1
	9409 011	BOLT, 5/16" x 3/4" lock-----	4
7	675 812 C1	GASKET, crankcase front plate-----	1
8		ELBOW, water inlet (%)-----	1
	680 084 C93	PACKAGE, front cover gasket-----	1
		Consists of:	
	675 813 C1	GASKET, crankcase front cover-----	1
	675 812 C1	GASKET, crankcase front plate-----	1
	683 791 C1	GASKET, crankcase front plate-----	1
	675 816 C1	GASKET, injection pump access plate---	1
	671 821 C1	GASKET, oil inlet tube-----	1
	1802 867 C1	GASKET, oil inlet tube-----	1
	671 827 C1	GASKET, oil pan (400)-----	1
	671 825 C1	GASKET, oil pan (300)-----	1
	675 808 C1	GASKET, water pump housing-----	1
	673 396 C1	GASKET, water inlet elbow-----	1
	676 988 C1	GASKET, water pump bearing housing---	1
	677 082 C2	GASKET, front cover-----	1
	675 860 C1	"O" RING, oil pump assy.-----	2
	252 483 R1	"O" RING, oil coolerssy.-----	4
	674 754 C1	"O" RING, injection pump housing-----	1
	1085 585 R2	PAMPHLET, installation-----	1
	1085 898 R1	TAG, warning-----	1

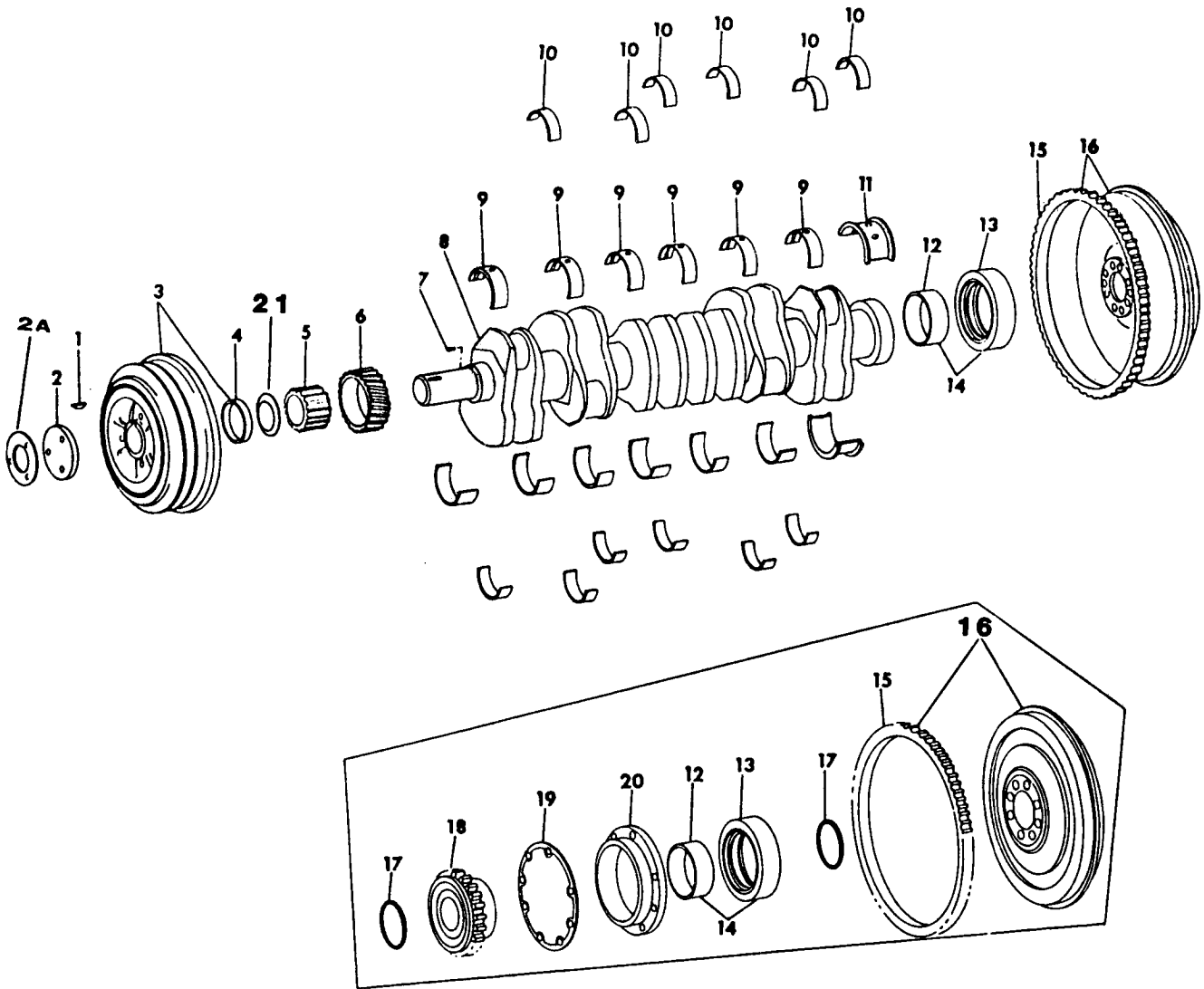
(%) - Refer to Chassis Parts Catalog

CRANKSHAFT

07

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL



CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL			
1	691 044 C1	KEY, Woodruff-----	1
2	675 412 C1	PLATE, damper retaining-----	1
	24 862 R1	SCREW, hex-hd cap-----	3
2A		(See Individual Engine Variation)	
3		(See Individual Engine Variation)	
4		SLEEVE, wear----- (Part of FRONT OIL SEAL AND WEAR SLEEVE PACKAGE, 690 437 C93) (Refer to "Lubricating Oil Pump" in Section 13)	NS
5	675 364 C1	SPLINE, oil pump drive-----	1
6	675 406 C1	GEAR, crankshaft-----	1
7	17 135 C1	PIN, roll-----	1
8	675 669 C92	CRANKSHAFT ASSY----- (For D-466, DT-466, DT-466B, DT-466C and DTI-466C) Consists of:	1
	NSS	CRANKSHAFT-----	1
	675 406 C1	GEAR-----	1
	17 135 C1	PIN-----	1
	675 364 C1	SPLINE-----	1
8	675 668 C92	CRANKSHAFT ASSY----- (For DT-414 and DT-414B) Consists of:	1
	NSS	CRANKSHAFT-----	1
	675 406 C1	GEAR-----	1
	17 135 R1	PIN-----	1
	675 364 C1	SPLINE-----	1

CRANKSHAFT

Ref No	Part Number	Description	Quantity
CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued			
*BEARINGS FOR USE WITH CRANKSHAFTS HAVING CASTING NUMBERS 675 050 C1 (414) OR 675 591 C2 (466)			
9	684 570 C92	BEARING, crankshaft front and intermediate----- (2 Halves)	6
9	684 573 C92	BEARING, crankshaft front and intermediate----- (2 Halves) (.010" Undersize)	AR
9	687 391 C2	BEARING, crankshaft front and intermediate----- (2 Halves) (.020" Undersize)	AR
9	684 576 C92	BEARING, crankshaft front and intermediate----- (2 Halves) (.030" Undersize)	AR
10	681 314 C2	BEARING, connecting rod----- (2 Halves) (Standard)	6
10	681 315 C2	BEARING, connecting rod----- (2 Halves) (.010" Undersize)	AR
10	687 382 C2	BEARING, connecting rod----- (2 Halves) (.020" Undersize)	AR
10	681 316 C2	BEARING, connecting rod----- (2 Halves) (.030" Undersize)	AR
11	684 579 C92	BEARING, crankshaft rear----- (2 Halves) (Standard)	1
11	684 582 C92	BEARING, crankshaft rear----- (2 Halves) (.010" Undersize)	AR
11	687 394 C2	BEARING, crankshaft rear----- (2 Halves) (.020" Undersize)	AR
11	684 585 C92	BEARING, crankshaft rear----- (2 Halves) (.030" Undersize)	AR

*REFERENCE SERVICE BULLETIN A-12D-50B.

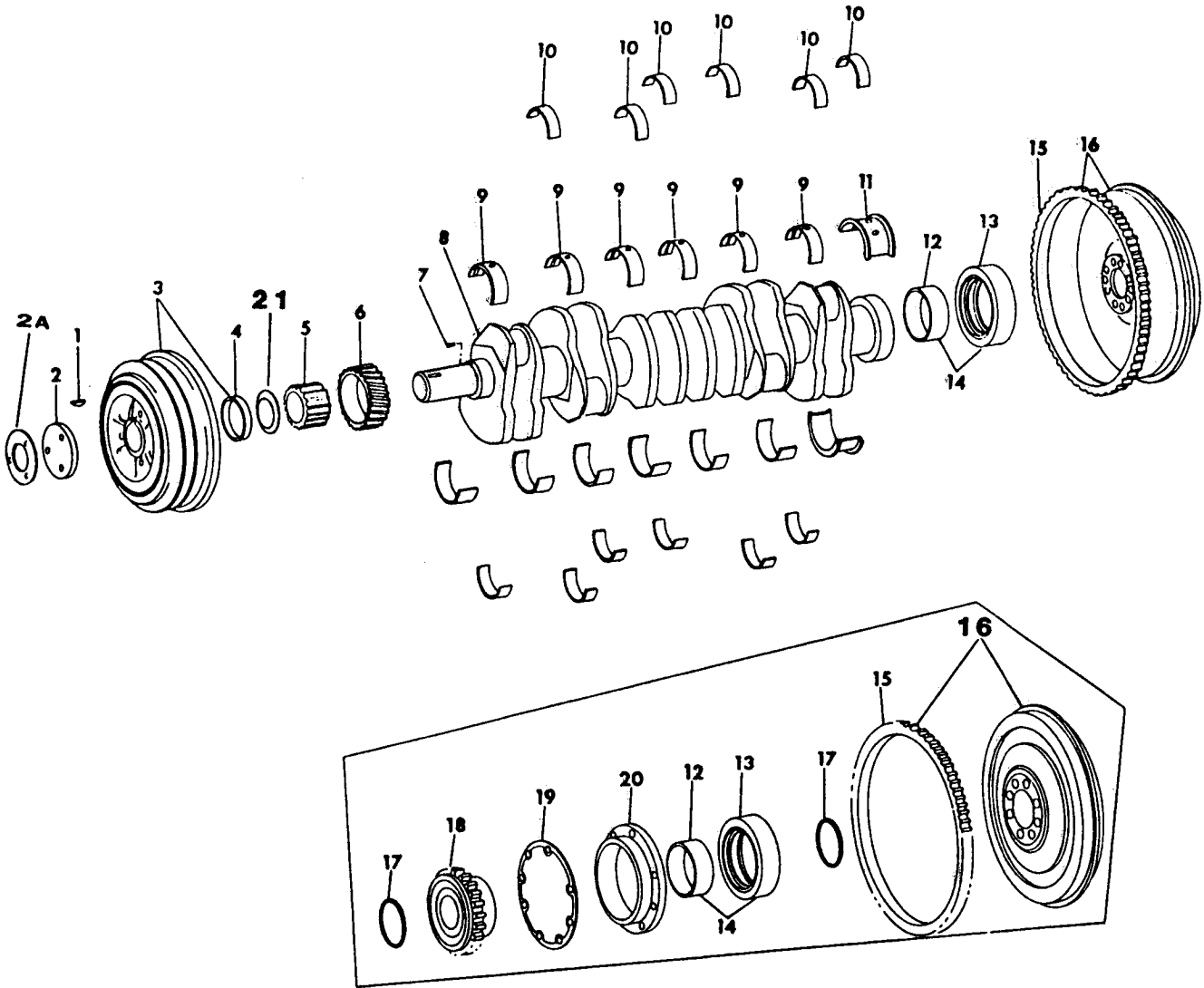
CRANKSHAFT

Ref No	Part Number	Description	Quantity
CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued			
*BEARINGS FOR USE WITH CRANKSHAFTS HAVING CASTING NUMBERS 675 050 C2 (414) OR 675 591 C3 (466)			
9	1808 069 C91	BEARING, crankshaft front and intermediate----- (2 Halves) (Standard)	6
9	1808 070 C91	BEARING, crankshaft front and intermediate----- (2 Halves) (.010" Undersize)	AR
9	1808 071 C91	BEARING, crankshaft front and intermediate----- (2 Halves) (.020" Undersize)	AR
9	1808 072 C91	BEARING, crankshaft front and intermediate----- (2 Halves) (.030" Undersize)	AR
10	1808 059 C91	BEARING, connecting rod----- (2 Halves) (Standard)	6
10	1808 060 C91	BEARING, connecting rod----- (2 Halves) (.010" Undersize)	AR
10	1808 061 C91	BEARING, connecting rod----- (2 Halves) (.020" Undersize)	AR
10	1808 062 C91	BEARING, connecting rod----- (2 Halves) (.030" Undersize)	AR
11	684 579 C92	BEARING, crankshaft rear----- (2 Halves) (Standard)	1
11	684 582 C92	BEARING, crankshaft rear----- (2 Halves) (.010" Undersize)	AR
11	687 394 C2	BEARING, crankshaft rear----- (2 Halves) (.020" Undersize)	AR
11	684 585 C92	BEARING, crankshaft rear----- (2 Halves) (.030" Undersize)	AR

*REFERENCE SERVICE BULLETIN A-12D-50B.

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued



CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued			
12		SLEEVE, crankshaft rear oil seal wear-----	NS
13		SEAL, crankshaft rear oil-----	NS
14		PACKAGE, crankshaft rear seal and wear sleeve----- (See Individual Engine Variation)	1
15		(See Individual Engine Variation)	
16		(See Individual Engine Variation)	
17		(See Individual Engine Variation)	
18		(See Individual Engine Variation)	
19		(See Individual Engine Variation)	
20		(See Individual Engine Variation)	
21	687 024 C1	SEAL, washer----- (All 414 Series 82493 and Up) (All 466 Series 14467 and Up)	1

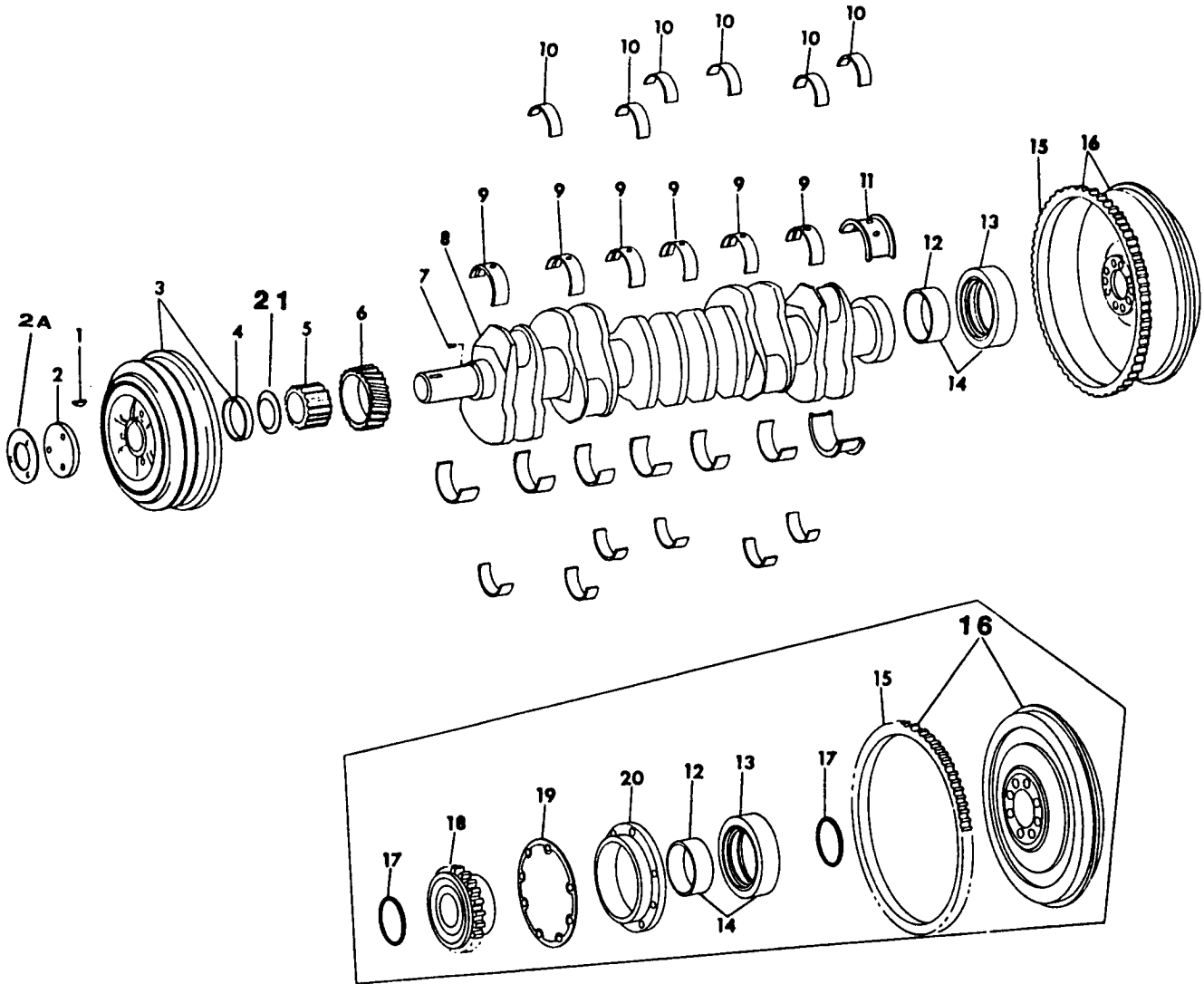
ENGINE VARIATIONS

(DT-414 for H-65C)

2A	684 431 C1	PLATE, vibration damper 52467 and Below-----	1
	24 839 R1	SCREW, hex-hd cap-----	3
	25 544 R1	WASHER, hardened-----	3
2A	682 835 C1	PLATE, vibration damper 52468 and Up-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	680 275 C91	DAMPER w/SLEEVE, vibration 52467 and Below-----	1
3	683 516 C91	DAMPER w/SLEEVE, vibration 52468 and Up-----	1
14	678 527 C1	PACKAGE, seal and wear sleeve (double lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	683 568 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued



CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
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**CRANKSHAFT, BEARINGS, VIBRATION DAMPER
AND FLYWHEEL - Continued**

ENGINE VARIATIONS - Continued

(DT-466 for H-80B)

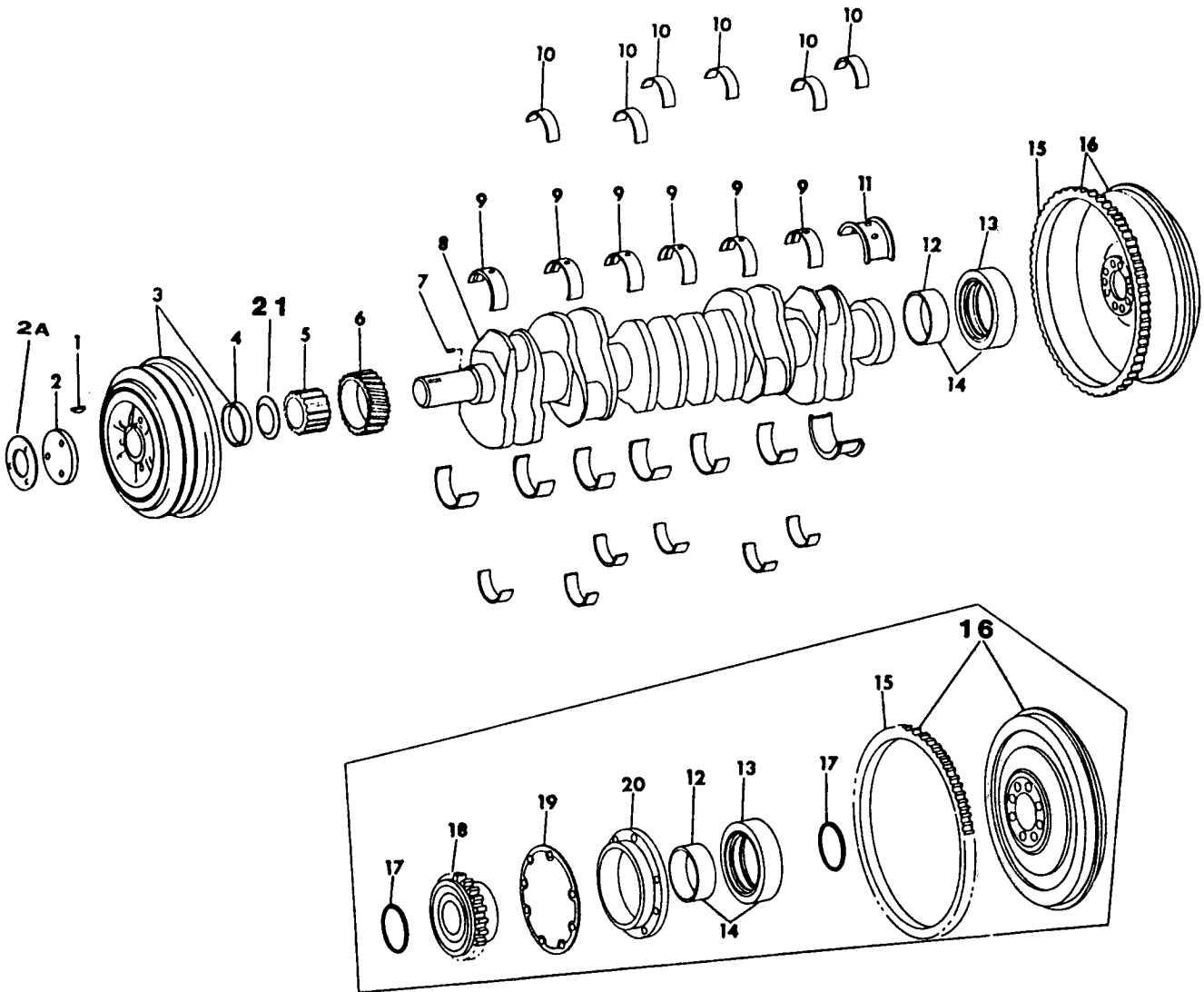
2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 459 C92	DAMPER w/SLEEVE, vibration 6123 and Below----- (2 groove)	1
3	683 516 C91	DAMPER w/SLEEVE, vibration 6124 and Up----- (3 groove)	1
14	678 527 C1	PACKAGE, seal and wear sleeve (double lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	683 568 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8

(DT-414 for E-200)

2A	684 431 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	3
	25 544 R1	WASHER, hardened-----	3
3	680 275 C91	DAMPER w/SLEEVE, vibration-----	1
14	691 631 C91	PACKAGE, seal and wear sleeve (single lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	673 715 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
	601 385 C1	BUSHING, flywheel pilot 13344 and Below-----	1

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued



CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
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**CRANKSHAFT, BEARINGS, VIBRATION DAMPER
AND FLYWHEEL - Continued**

ENGINE VARIATIONS - Continued

(DT-466 and DT-466B for 412)

2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 459 C91	DAMPER w/SLEEVE, vibration (2 groove)-----	1
14	691 631 C91	PACKAGE, seal and wear sleeve (single lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	673 715 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
	601 385 C1	BUSHING, flywheel pilot 13344 and Below-----	1

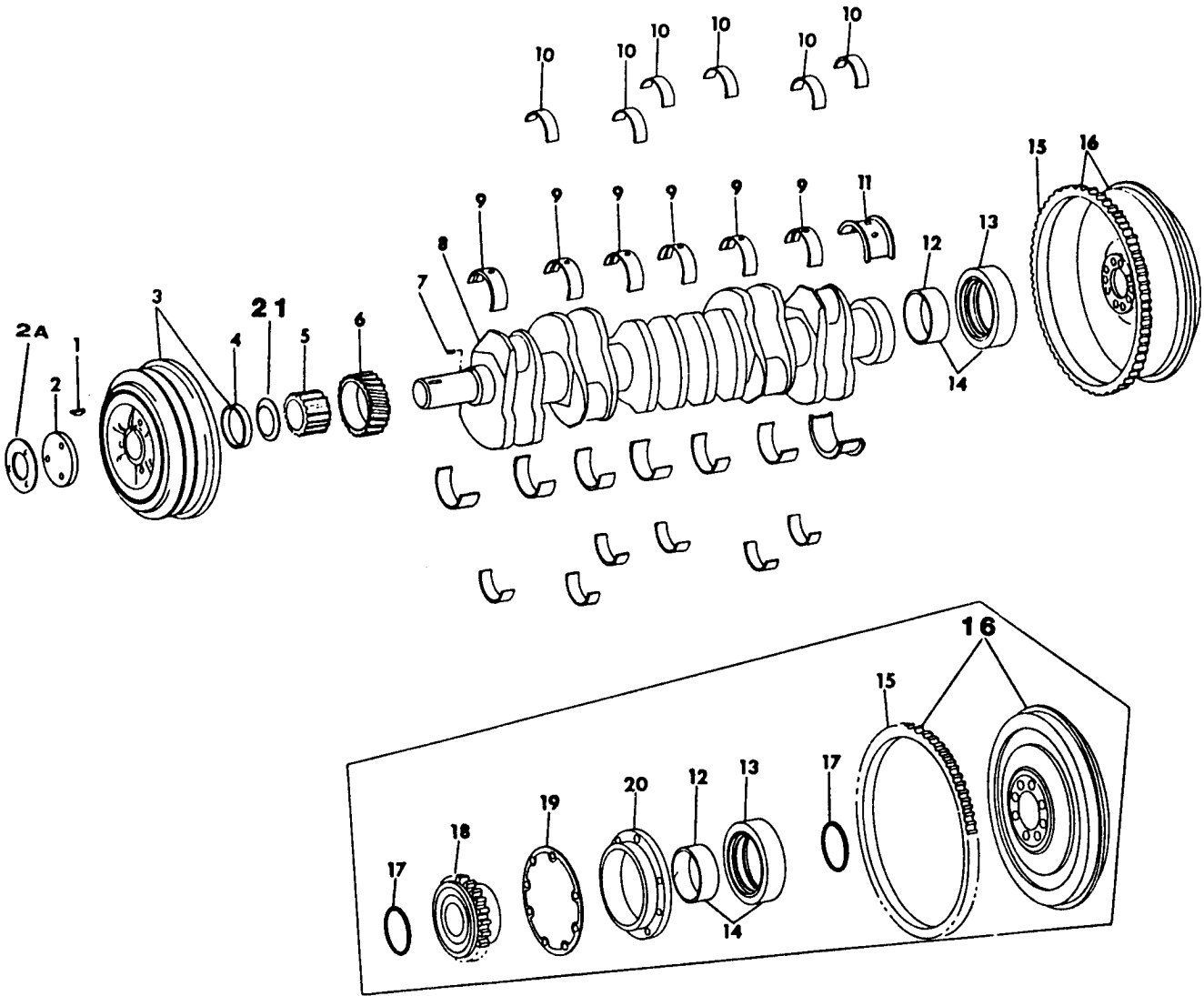
(DT-466B for 433B and 444B)

(DT-466 for 433 and 444)

2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 459 C91	DAMPER w/SLEEVE, vibration (2 groove)-----	1
14	678 527 C1	PACKAGE, seal and wear sleeve (double lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	683 568 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued



CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
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CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued

ENGINE VARIATIONS - Continued

(DT-466, DT-466B and DT-466C for TD-15C Power Shift and 175C)

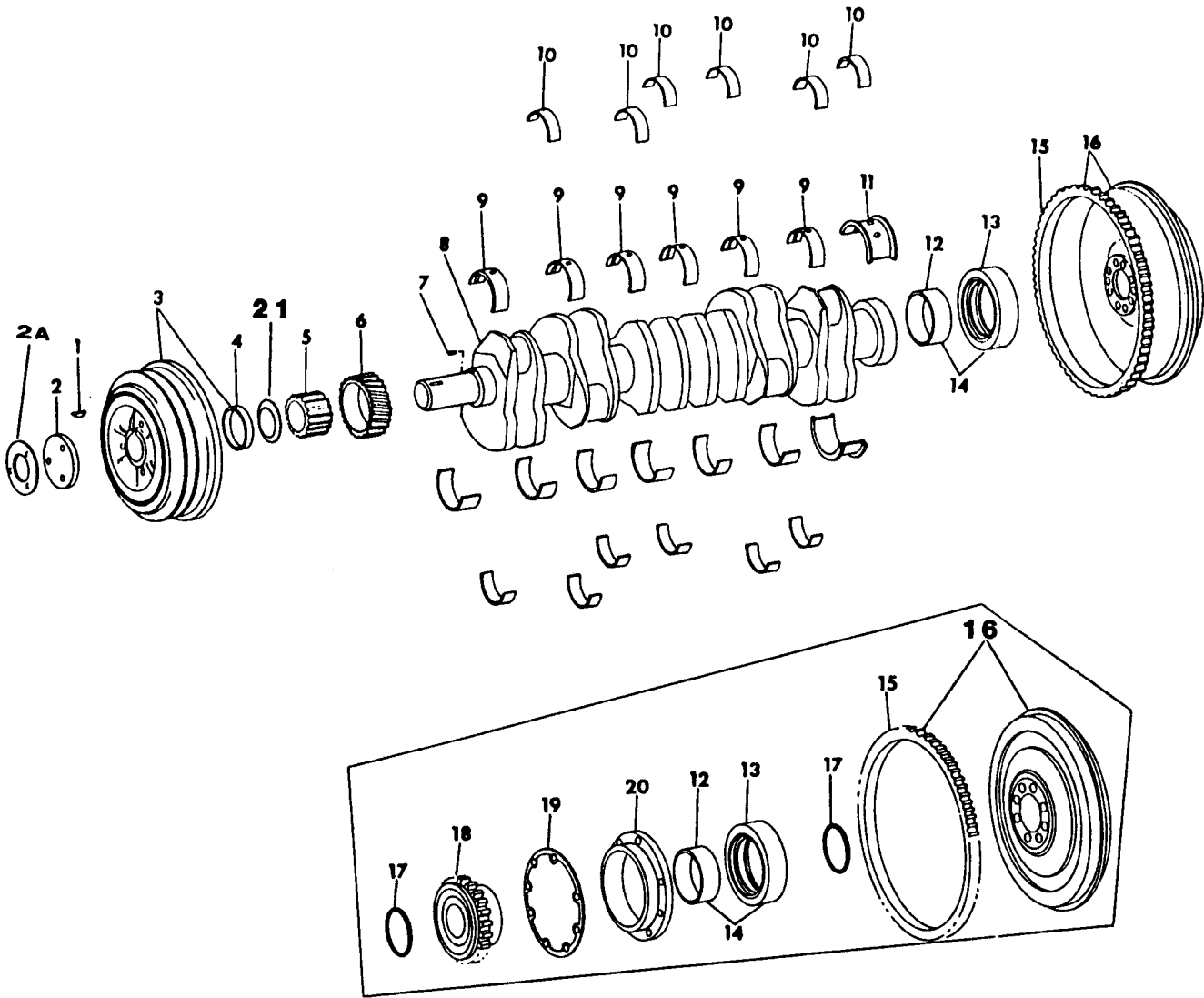
2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 459 C91	DAMPER w/SLEEVE, vibration (2 groove) 17397 and below	1
	683 516 C91	DAMPER w/SLEEVE, vibration (3 groove) 17398 and up---	1
14	678 527 C1	PACKAGE, seal and wear sleeve (double lip)-----	1
15	33 817 DE	GEAR, ring (149 teeth)-----	1
16	673 475 C92	FLYWHEEL w/RING GEAR, 33 817 DE-----	1
	25 276 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8

(DT-466 and DT-466B for TD-15C Manual Shift and Manual Shift Custom)

2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 459 C91	DAMPER w/SLEEVE, vibration (2 groove) 17397 and below	1
	683 516 C91	DAMPER w/SLEEVE, vibration (3 groove) 17398 and Up---	1
14	678 527 C1	PACKAGE, seal and wear sleeve (double lip)-----	1
15	33 817 DE	GEAR, ring (149 teeth)-----	1
16	654 810 C91	FLYWHEEL w/RING GEAR, 33 817 DE-----	1
	25 286 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
17	22 282 R1	"O" RING, 2-7/8 x 3-1/16 x 3/32"-----	2
18	654 849 C1	GEAR, power take-off spacer-----	1
19	332 303 R1	GASKET, oil seal retainer-----	1
20	601 743 C1	RETAINER, rear oil seal-----	1
	27 970 R1	SCREW, hex-hd cap-----	8

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued



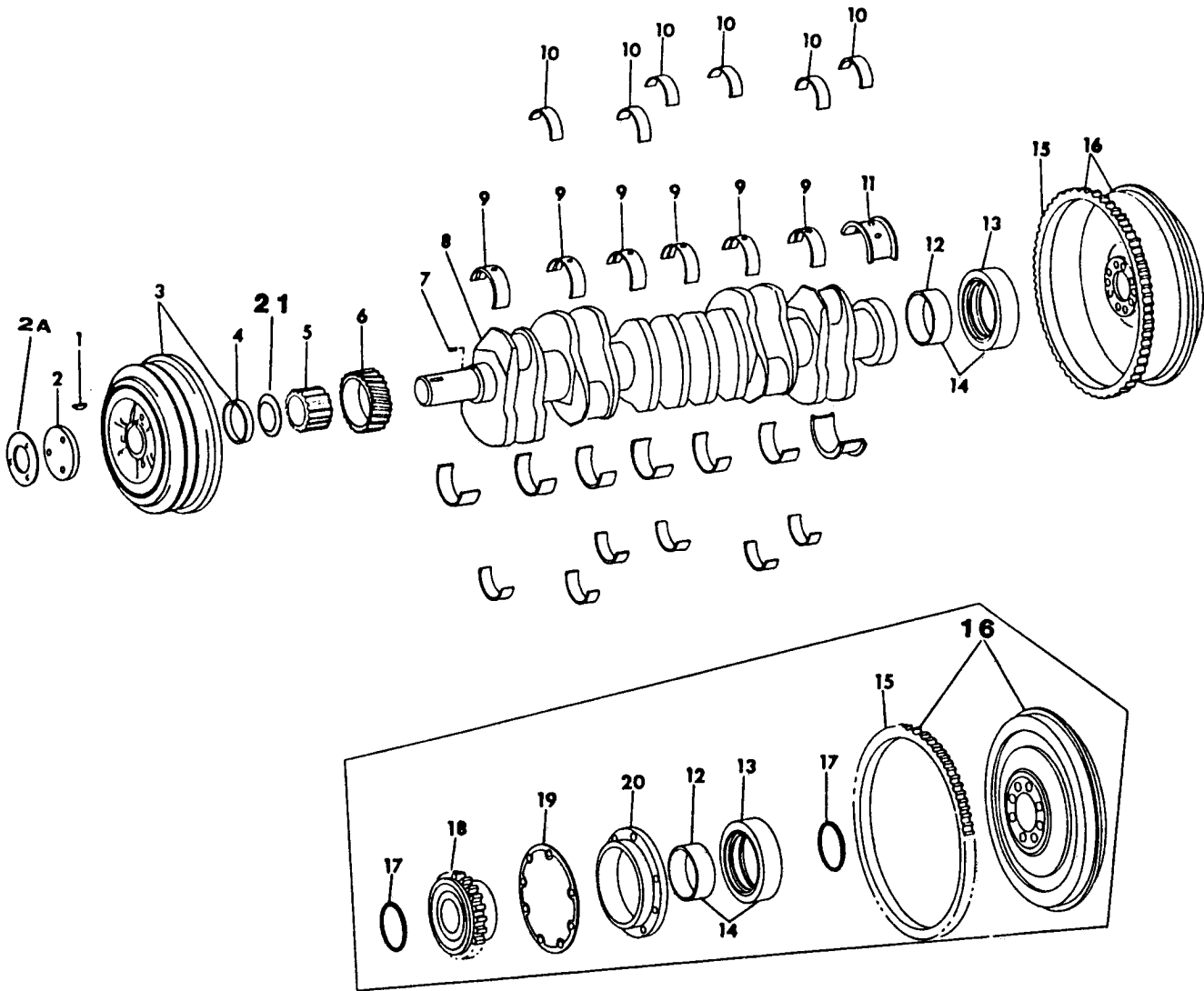
CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued			
<u>ENGINE VARIATIONS - Continued</u>			
<u>(DT-466 and DT-466B for TD-12)</u>			
2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 516 C91	DAMPER w/SLEEVE, vibration (3 groove)-----	1
14	691 631 C91	PACKAGE, seal and wear sleeve (single lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	673 311 C92	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	25 276 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
<u>(DT-466B for 412B)</u>			
2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 516 C91	DAMPER w/SLEEVE, vibration (3 groove)----- (Replaces 683 459 C91)	1
14	691 631 C91	PACKAGE, seal and wear sleeve (single lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	673 715 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
<u>(DT-414 and DT-414B for 530)</u>			
2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 516 C91	DAMPER w/SLEEVE, vibration (3 groove)-----	1
14	678 527 C1	PACKAGE, seal and wear sleeve (double lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	683 568 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued



CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
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**CRANKSHAFT, BEARINGS, VIBRATION DAMPER
AND FLYWHEEL - Continued**

ENGINE VARIATIONS - Continued

(DT-466B for H-80B and 540)

(DTI-466C for 540)

(DT-466C for 530)

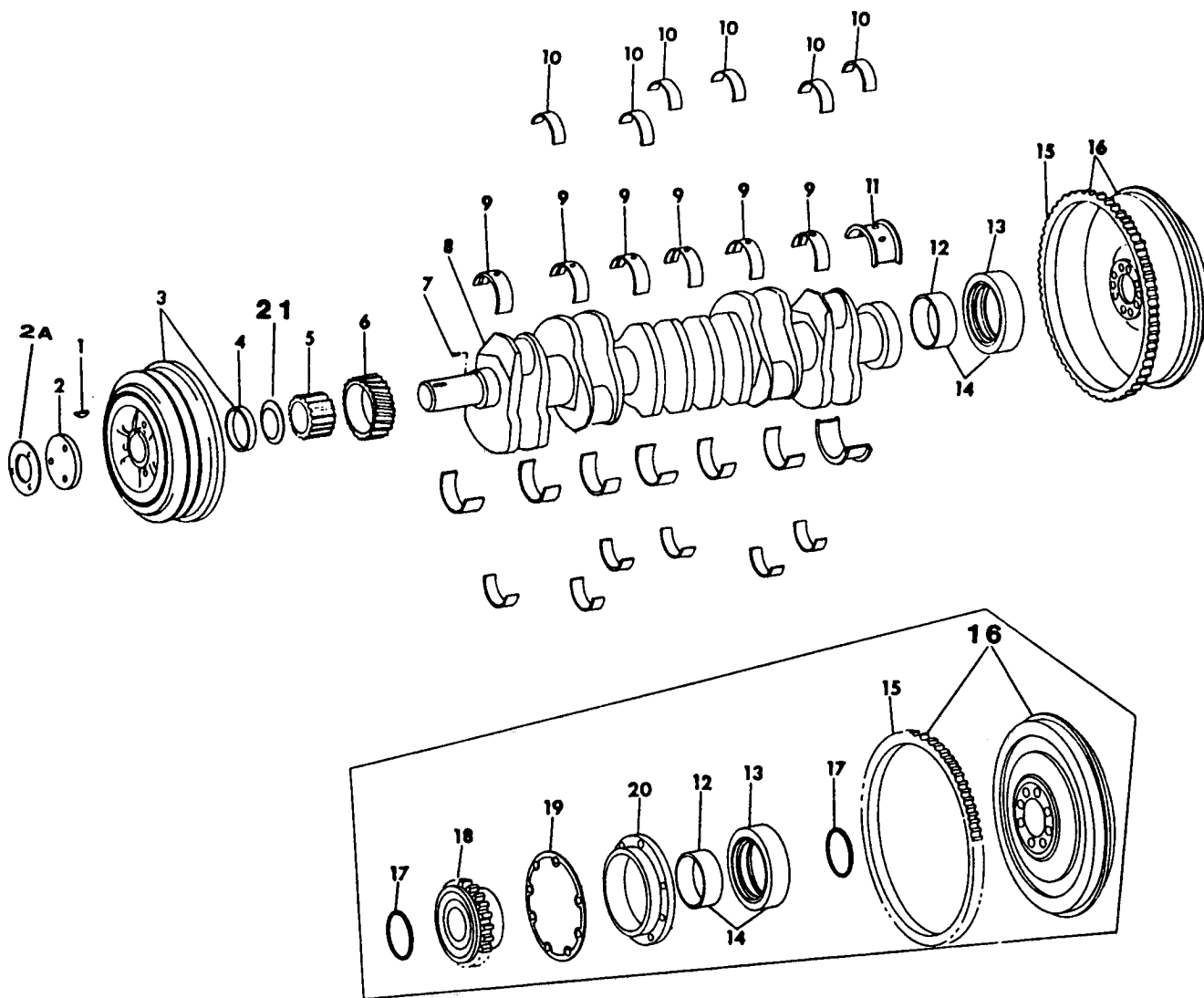
3	683 516 C91	DAMPER w/SLEEVE, vibration (3 groove)-----	1
14	678 527 C1	PACKAGE, seal and wear sleeve (double lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth)-----	1
16	683 568 C91	FLYWHEEL w/RING GEAR, 304 439 R1-----	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8

(All Galion Applications)

2A	682 835 C1	PLATE, vibration damper-----	1
	24 839 R1	SCREW, hex-hd cap-----	4
	25 544 R1	WASHER, hardened-----	4
3	683 459 C92	DAMPER w/SLEEVE, vibration (2 groove)----- (All except LQ-159)	1
3	674 310 C91	DAMPER w/SLEEVE, vibration (2 groove) LQ-159-----	1
14	691 631 C91	PACKAGE, seal and wear sleeve (single lip)-----	1
15	304 439 R1	GEAR, ring (124 teeth) (All except LQ-159)-----	1
15	61 544 H	GEAR, ring (138 teeth) LQ-159-----	1

CRANKSHAFT

CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued



CG-5655A

CRANKSHAFT

Ref No	Part Number	Description	Quantity
CRANKSHAFT, BEARINGS, VIBRATION DAMPER AND FLYWHEEL - Continued			
ENGINE VARIATIONS - Continued			
(All Galion Applications - Continued)			
16	673 715 C91	FLYWHEEL w/RING GEAR, 304 439 R1----- (for use w/CLARK Transmission) LQ-157 LQ-161B A550 LQ-157A LQ-165 A556 LQ-158 LQ-165A A600 LQ-158A LQ-168 A606 LQ-161A LQ-170	1
	80 290 R1	SCREW, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
16	678 827 C91	FLYWHEEL w/RING GEAR, 304 439 R1----- LQ-166A LQ-167 LQ-166B LQ-167A	1
	25 276 R1	BOLT, 1/2-20 x 1-5/8" hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
16	1806 893 C91	FLYWHEEL w/RING GEAR, 304 439 R1----- (for use w/FUNK Transmission) S450E A500E A566E S500E A550 A600 A450E A560E	1
	25 276 R1	BOLT, 1/2 x 1-5/8"-----	8
	685 902 C1	WASHER, hardened-----	8
16	1808 802 C91	FLYWHEEL w/RING GEAR, 304 439 R1----- A-400E	1
	25 276 R1	BOLT, 1/2 x 1-5/8"-----	8
	685 902 C1	WASHER, hardened-----	8
16	673 565 C91	FLYWHEEL w/RING GEAR, 61 544 H LQ-159-----	1
	80 290 R1	BOLT, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
16	678 482 C1	FLYWHEEL w/RING GEAR, 304 439 R1 LQ-163-----	1
	25 277 R1	BOLT, hex-hd cap-----	8
	685 902 C1	WASHER, hardened-----	8
19	332 303 R1	GASKET, rear seal face plate----- A600 A606	1

CRANKSHAFT

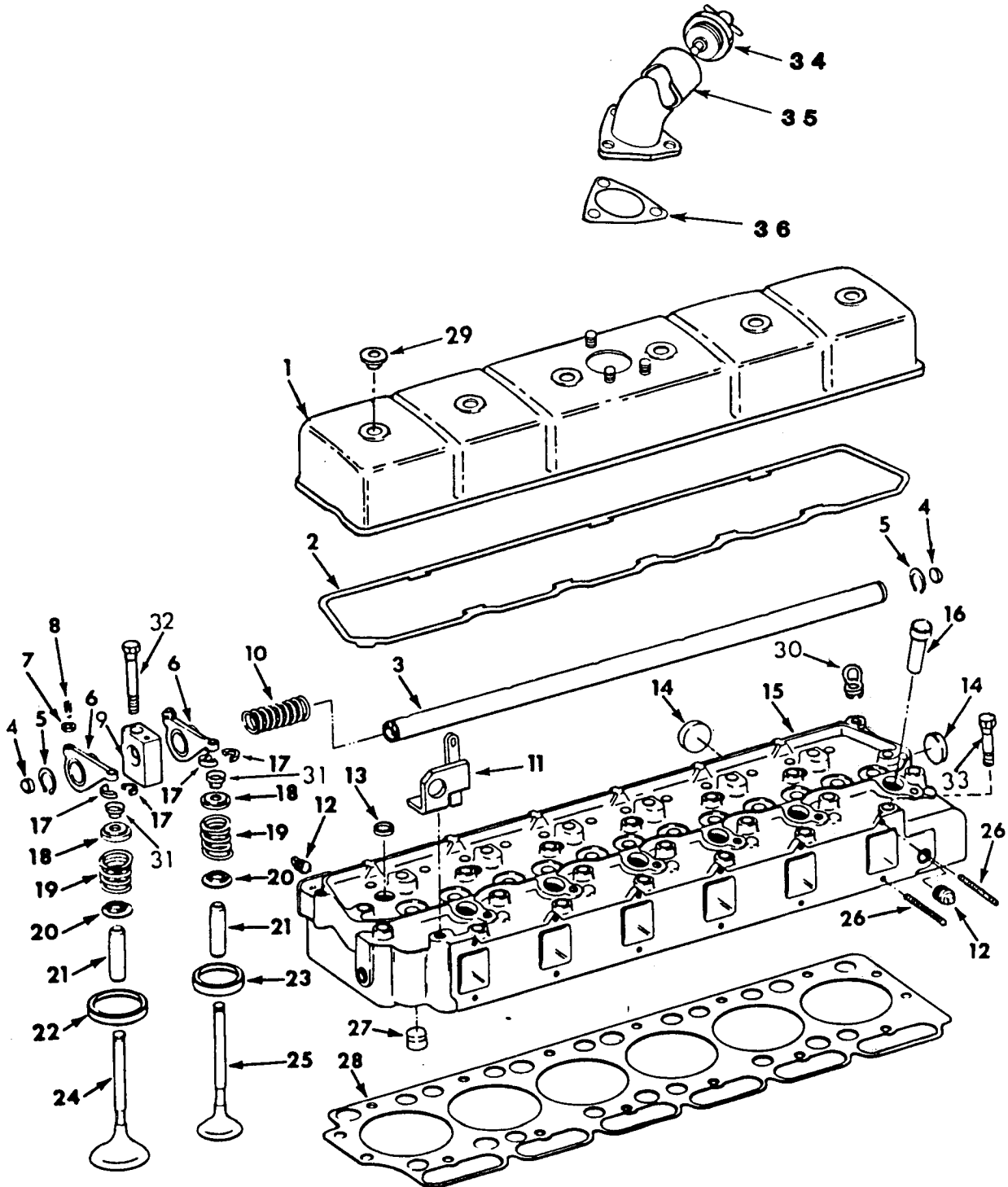
MEMORANDA

CYLINDER HEAD

08

CYLINDER HEAD

CYLINDER HEAD, ROCKER ARMS, VALVE COVER AND RELATED PARTS



CG-5656A

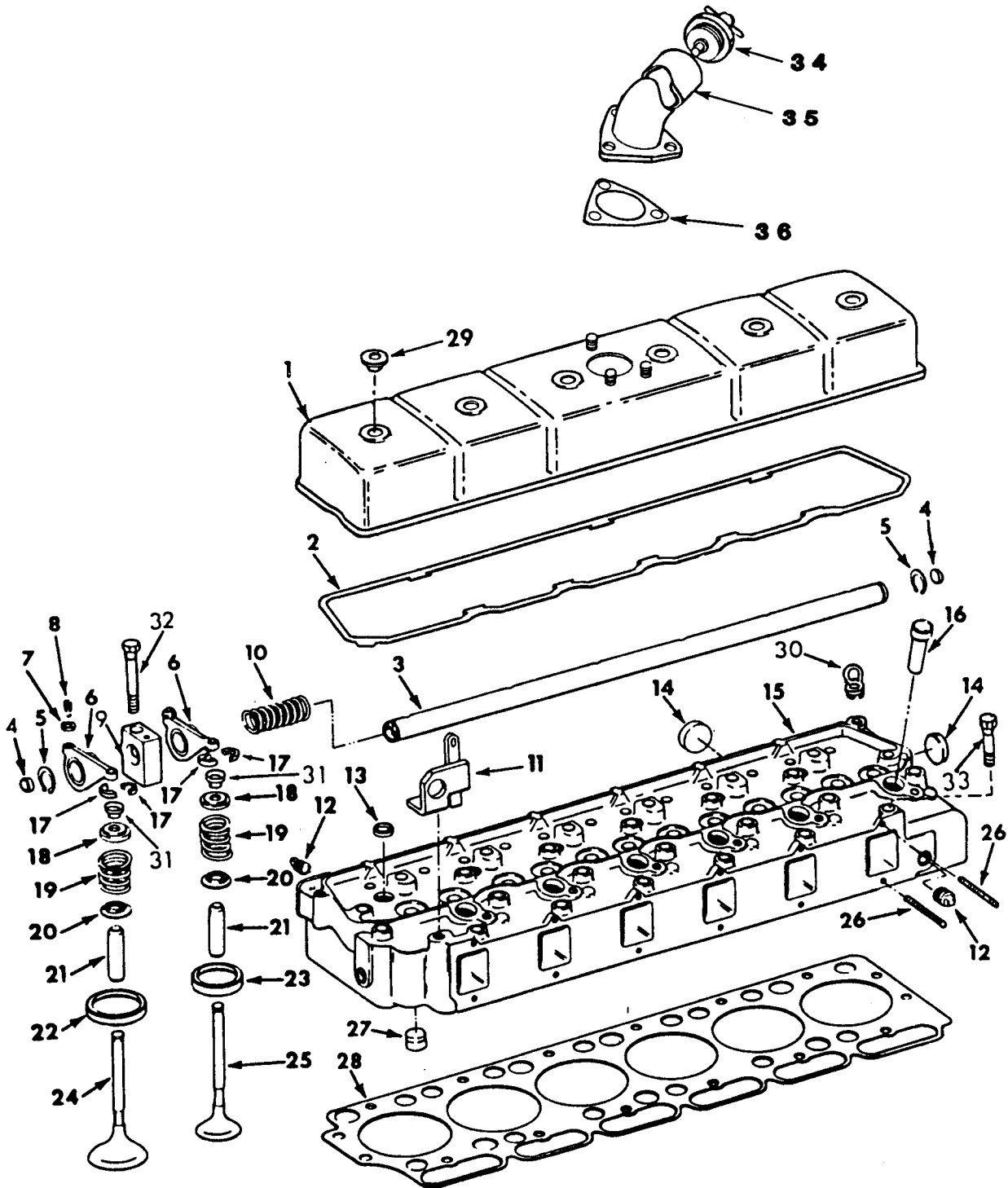
CYLINDER HEAD

Ref No	Part Number	Description	Quantity
CYLINDER HEAD, ROCKER ARMS, VALVE COVER AND RELATED PARTS			
1	690 339 C1	COVER, valve----- (For use with valve cover mounted breather or or filler assembly)	1
	676 088 C3	COVER, valve----- (For use with crankcase mounted breather)	1
	25 654 R1	BOLT, 5/16-18 x 1-1/2"-----	6
2	675 109 C2	GASKET, valve cover-----	1
3	675 660 C92	SHAFT, rocker arm w/two PLUGS, 291 171 C1*-----	1
4	291 171 C1	PLUG, cup-----	2
5	24 577 R1	RING, retainer-----	2
6	682 260 C91	ARM, rocker w/SCREW, 16 067 DA and NUT, 133 093 R1 (*) 12 DT-414 - 103447 and Below DT-466 - 21867 and Below D-466 - # and Below	
	688 999 C91	ARM, rocker w/SCREW, 16 067 DA and NUT, 133 093 R1 (*) 12 DT-414 - 103448 and Up DT-466 - 21868 and Up D-466 - # and Up All DT-414B, DT-466B, DT-466C and DTI-466C	
7	133 093 R1	NUT, adjusting screw-----	12
8	16 067 DA	SCREW, rocker arm adjusting-----	12
9	1802 461 C2	BRACKET, rocker arm shaft-----	6
10	675 105 C1	SPRING, rocker arm shaft-----	5
11		(See Individual Engine Variation)	
12	445 751	PLUG, 1/2" pipe-----	2
13	21 427 R1	PLUG, 1-1/8" cup-----	6
14	601 093 C1	PLUG, 1-1/2" cup-----	6

(*) REFERENCE SERVICE BULLETIN 12D-77-07.

CYLINDER HEAD

CYLINDER HEAD, ROCKER ARMS, VALVE COVER AND RELATED PARTS - Continued



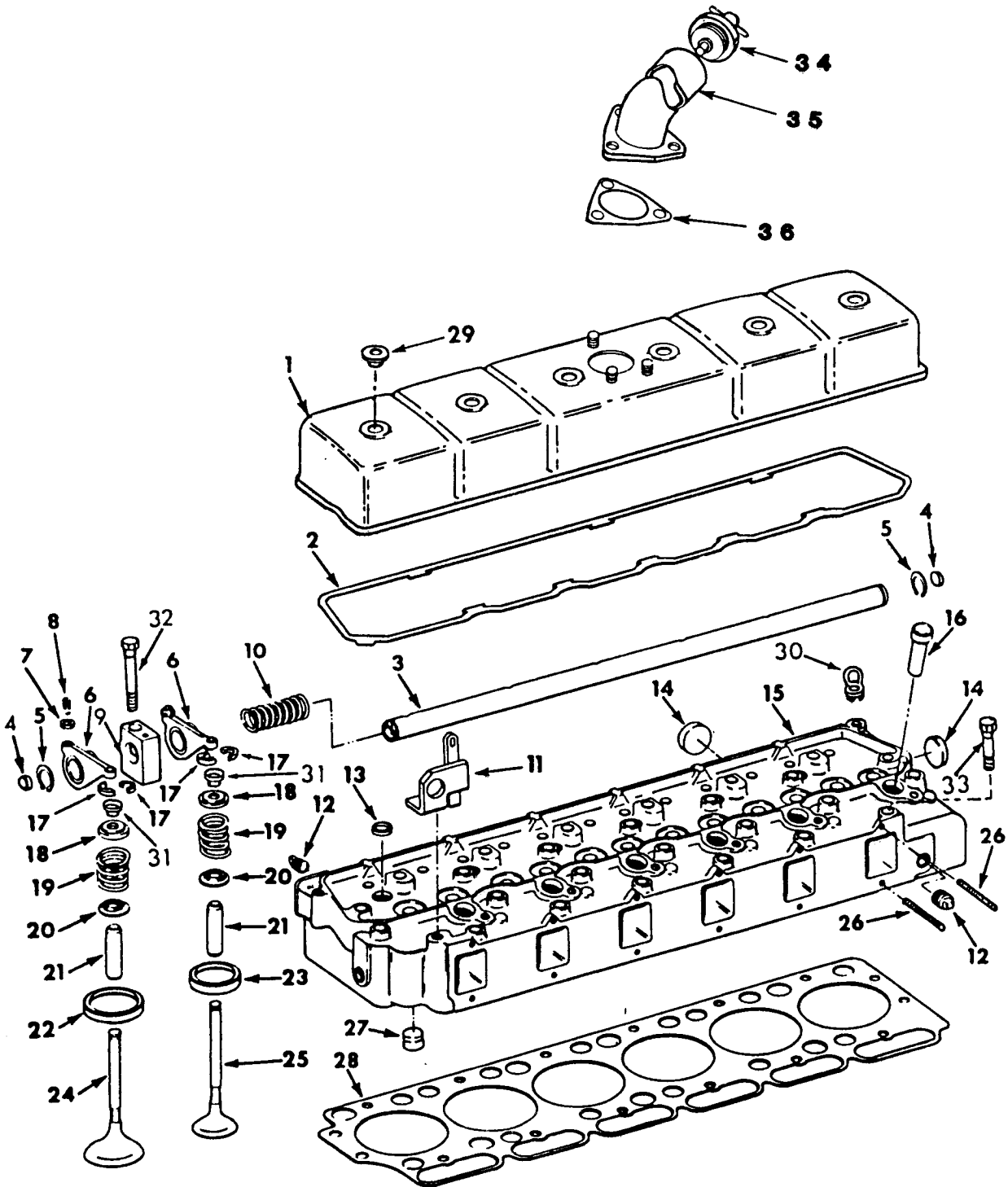
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CYLINDER HEAD

Ref No	Part Number	Description	Quantity
CYLINDER HEAD, ROCKER ARMS, VALVE COVER AND RELATED PARTS - Continued			
15	691 876 C91	HEAD w/VALVE ASSY (Includes Ref. Nos. 12 thru 27)---- DT-466 - 75000 and below DT-414 - 140000 and below	1
	1800 901 C91	HEAD w/VALVE ASSY (Includes Ref. Nos. 12 thru 27)---- D-466	1
	691 877 C91	HEAD w/VALVE ASSY (Includes Ref. Nos. 12 thru 27)---- DT-414B - 140001 and up DT-466B - 75001 and up All DT-466C and DTI-466C	1
16	675 442 C1	SLEEVE, injector-----	6
17	41 339 D	LOCK, valve spring-----	24
18	682 221 C92	ROTO COIL w/SHIELD ASSY, 681 234 C1-----	12
19	682 064 C1	SPRING, valve-----	12
20	675 443 C1	SEAT, valve spring-----	12
21	675 439 C1	GUIDE, valve-----	12
22	671 559 C1	INSERT, intake valve (.002" Oversize)-----	AR
	671 561 C1	INSERT, intake valve (.015" Oversize)-----	AR
23	671 563 C1	INSERT, exhaust valve (.002" Oversize)-----	AR
	671 565 C1	INSERT, exhaust valve (.015" Oversize)-----	AR
24	675 046 C2	VALVE, intake-----	6
25	676 865 C2	VALVE, exhaust-----	6
26	682 840 C1	STUD, exhaust manifold-----	12
27	675 045 C1	DIRECTOR, water (.754 O.D.)----- DT-414 and DT-414B - 153590 and below DT-466 and DT-466B - 131916 and below D-466 - # and below	12
	691 183 C1	DIRECTOR, water (.941 O.D.)----- DT-414B - 153591 and up DT-466B - 131917 and up D-466 - # and up All DT-466C and DTI-466C	12

CYLINDER HEAD

CYLINDER HEAD, ROCKER ARMS, VALVE COVER AND RELATED PARTS - Continued



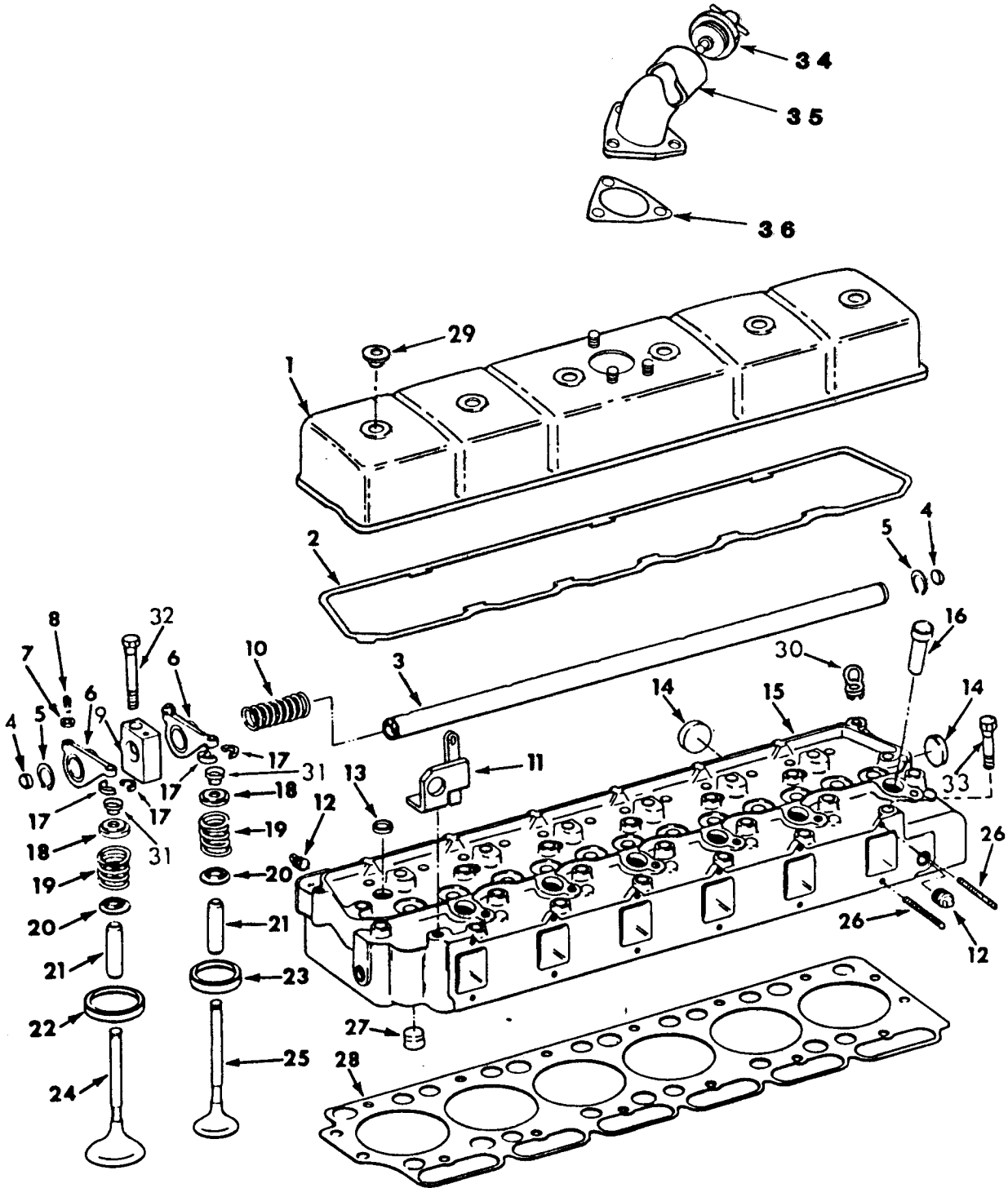
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CYLINDER HEAD

Ref No	Part Number	Description	Quantity
CYLINDER HEAD, ROCKER ARMS, VALVE COVER AND RELATED PARTS - Continued			
28	676 108 C2	GASKET, cylinder head-----	1
29	677 692 C1	GROMMET, valve cover-----	6
30	675 455 C1	EYE, lifting, front and rear-----	2
	24 648 R1	BOLT, 9/16-12 x 1-1/4"-----	2
31	681 234 C1	SHIELD, oil-----	12
32	676 119 C1	BOLT w/FLANGE, cylinder head long-----	6
	252 018 R1	WASHER-----	6
33	676 120 C1	BOLT w/FLANGE, cylinder head short-----	20
	252 018 R1	WASHER-----	20
34		(See Individual Engine Variation)	
35		(See Individual Engine Variation)	
36		(See Individual Engine Variation)	
	1808 973 C91	PACKAGE, cylinder head gasket-----	1
		Consists of:	
	688 928 C1	GASKET, exhaust manifold-----	6
	682 199 C1	GASKET, intake manifold-----	1
	670 073 C1	GASKET, turbocharger-----	1
	253 660 R1	GASKET, turbo oil inlet tube-----	1
	670 079 C1	GASKET, turbo oil drain tube-----	1
	675 384 C1	GASKET, thermostat housing-----	1
	676 108 C2	GASKET, cylinder head-----	1
	675 109 C2	GASKET, valve cover-----	1
	675 477 C1	GASKET, injector nozzle-----	6
	674 341 C1	GASKET, intake manifold elbow-----	1
	682 810 C1	GROMMET, injector dust seal-----	6
	677 962 C1	GROMMET, valve cover-----	6
	681 234 C1	SHIELD, oil rotator-----	12

CYLINDER HEAD

CYLINDER HEAD, ROCKER ARMS, VALVE COVER AND RELATED PARTS - Continued



CG-5656A

CYLINDER HEAD

Ref No	Part Number	Description	Quantity
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**CYLINDER HEAD, ROCKER ARMS,
VALVE COVER AND RELATED PARTS - Continued**

ENGINE VARIATIONS

(FOR 530, 412, 412b AND 540)

11	685 690 C1	EYE w/PLATE, lifting-----	1
	24 648 R1	SCREW, hex-hd cap-----	1

(For 433, 444, 433B, 444B)

11	673 832 C1	EYE, lifting-----	1
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(For TD-15C and 175C)

11	673 832 C1	EYE, lifting-----	1
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34	672 573 C1	CAP, oil filler-----	1
		TD-15C - 17590 and below	
		175C - 17595 and below	

	685 917 C1	CAP, oil filler-----	1
		TD-15C - 17591 to 37652	
		175C - 17596 to 37652	

35	686 586 C1	FILLER ASSY, oil - 37652 and below-----	1
		(Together w/CAP, 685 918 C1, will work for FILLER ASSY, 673 974 C1)	

36	673 973 C4	GASKET, oil filler - 37652 and below-----	1
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(Galion LQ-163)

34	672 573 C1	CAP, oil filler - # and below-----	1
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	685 917 C1	CAP, oil filler - # and up-----	1
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35	686 586 C1	FILLER ASSY, oil - # and up-----	1
		(Together w/CAP, 685 918 C1, will work for FILLER ASSY, 673 974 C1)	

36	673 973 C4	GASKET, oil filler - 37652 and below-----	1
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CYLINDER HEAD

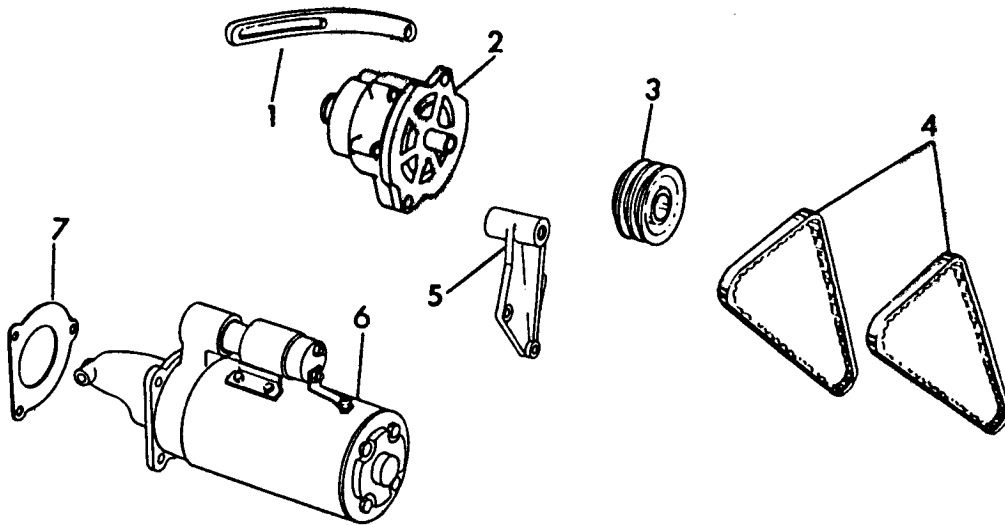
MEMORANDA

ELECTRICAL

09

ELECTRICAL

ALTERNATOR AND CRANKING MOTOR CONNECTIONS (DT-414 for H-65C, E-200 and 530) (DT-466 for TD-15C, H-80B, 175C and 412)



CG-5657

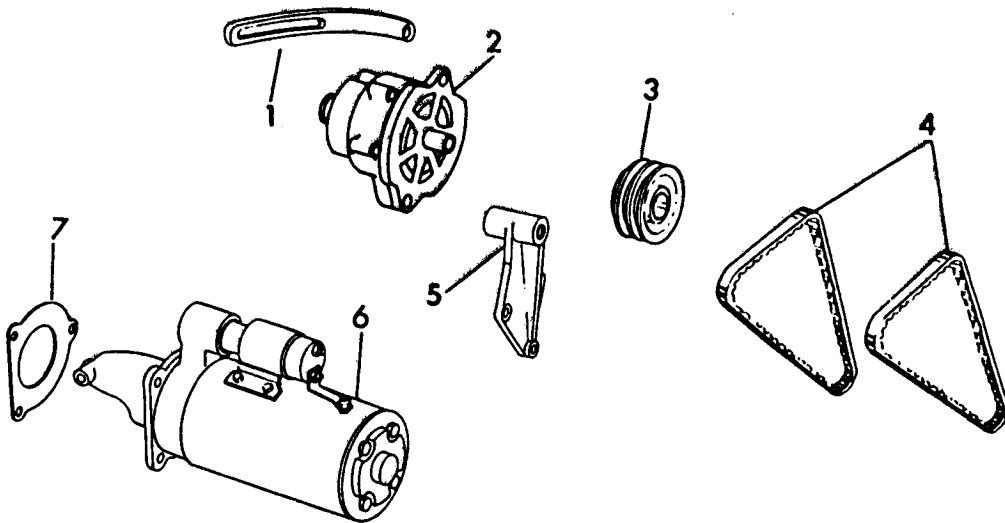
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR AND CRANKING MOTOR CONNECTIONS			
(DT-414 for H-65C, E-200 and 530)			
(DT-466 for TD-15C, H-80B, 175C and 412)			
1	673 473 C1	BRACE, alternator adjusting----- H-65C 69363 and below TD-15C 17399 and below E-200 # and below 175C 17398 and below H-80B 10210 and below 412 13214 and below	1
1	1210 342 H1	BRACE, alternator adjusting----- H-65C 69364 and up TD-15C 17400 and up E-200 # and up 175C 17399 and up 530 501 and up 412 13215 and up H-80B 10211 and up	1
	24 861 R1	SCREW, 1-1/4" hex-hd cap-----	1
	26 312 R1	SCREW, 1-1/2" hex-hd cap-----	1
	16 135 DA	SPACER-----	1
	345 409 R1	WASHER, hardened-----	2
	25 896 R1	WASHER, hardened-----	1
2		ALTERNATOR ASSY. (Refer to "ALTERNATOR")	
3	673 471 C1	PULLEY, alternator----- H-65C 501 and up TD-15C # and below E-200 # and below 175C # and below 530 501 and up 412 22579 and below H-80B 501 and up	1
3	1210 410 H1	PULLEY, alternator----- E-200 # and up 412 22580 and up TD-15C # and up 175C # and up	1
	22 436 R1	SCREW, hex-hd cap-----	1
	452 164 R1	NUT, lock-----	1
4		(See Individual Engine Variation)	

NOTE: 433 and 444 use a hydraulic starter.
Refer to Chassis Parts Catalog for "Hydraulic Starter and Related Parts".

ELECTRICAL

ALTERNATOR AND CRANKING MOTOR CONNECTIONS - Continued (DT-414 for H-65C, E-200 and 530) (DT-466 for TD-15C, H-80B, 175C and 412)



CG-5657

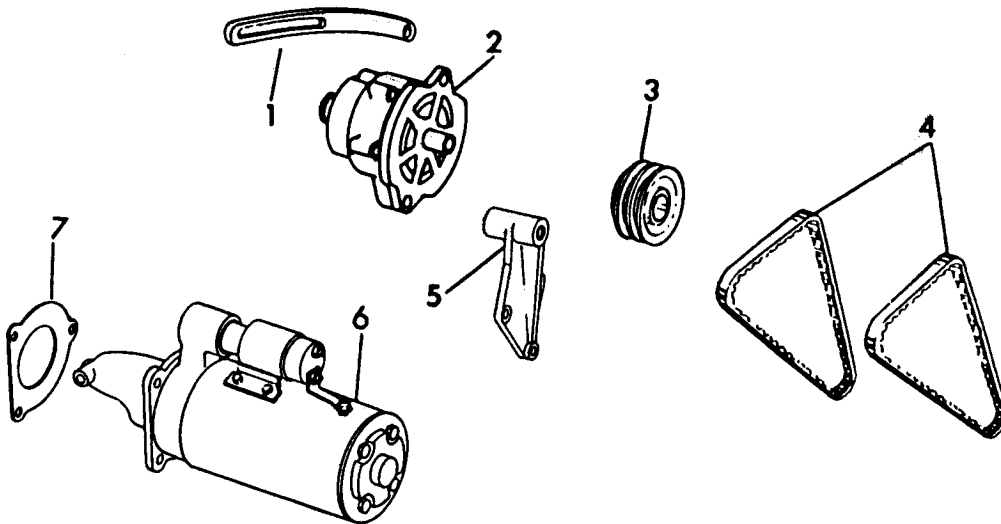
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR AND CRANKING MOTOR CONNECTIONS - Continued			
(DT-414 for H-65C, E-200 and 530)			
(DT-466 for TD-15C, H-80B, 175C and 412)			
5	673 472 C1	BRACKET, alternator----- H-65C 69363 and below TD-15C 17399 and below E-200 # and below 175C 17398 and below H-80B 10210 and below 412 13214 and below	1
5	689 427 C1	BRACKET, alternator----- H-65C 69364 and up TD-15C 17400 and up E-200 # and up 175C 17399 and up 530 501 and up 412 13215 and up H-80B 10211 and up	1
	25 522 R1	NUT, 3/8"-----	1
	24 534 R1	NUT, 1/2"-----	1
	25 296 R1	SCREW, 6-1/2" hex-hd cap-----	1
	275 804 R1	SCREW, 3" hex-hd cap-----	1
	25 750 R1	SCREW, 1-3/4" hex-hd cap-----	3
	26 273 R1	WASHER, hardened-----	2
	25 896 R1	WASHER, hardened-----	2
6		MOTOR ASSY, cranking (Refer to "CRANKING MOTOR")	
7	1211 455 H1	GASKET, cranking motor-----	1
	740 110 C1	CLIP, harness----- (At alternator bracket rear inner bolt)	1
	740 110 C1	CLIP, harness----- (At front bolt of breather housing)	1
	103 213 H	CLIP, harness----- (At center bolt of lube filter base) (Use upper bolt for TD-15C Gear Drive and Custom) (Use lower bolt for TD-15C Power Shift and 175C)	1
<u>ENGINE VARIATIONS</u>			
<u>(DT-414 for H-65C)</u>			
4	674 117 C1	BELT 69363 and Below (matched set)-----	1
4	683 548 C91	BELT 69364 and Up (matched set)-----	1

NOTE: 433 and 444 use a hydraulic starter.
Refer to Chassis Parts Catalog for "Hydraulic Starter and Related Parts".

ELECTRICAL

ALTERNATOR AND CRANKING MOTOR CONNECTIONS - Continued
(DT-414 for H-65C, E-200 and 530)
(DT-466 for TD-15C, H-80B, 175C and 412)



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ELECTRICAL

Ref No	Part Number	Description	Quantity
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ALTERNATOR AND CRANKING MOTOR CONNECTIONS - Continued
 (DT-414 for H-65C, E-200 and 530)
 (DT-466 for TD-15C, H-80B, 175C and 412)

ENGINE VARIATIONS - Continued

(DT-414 for E-200)

4	673 489 C1	BELT # and Below (matched set)-----		1
4	685 654 C91	BELT # and Up (matched set)-----		1

(DT-466 for H-80B)

4	674 117 C1	BELT 10210 and Below (matched set)-----		1
4	683 548 C91	BELT 10211 and Up (matched set)-----		1

(DT-466 for 412)

4	673 489 C1	BELT 13214 and Below (matched set)-----		1
4	683 548 C91	BELT 13215 and Up (matched set)-----		1

(DT-466 for TD-15C and 175C)

4	673 481 C1	BELT (matched set)-----		1
		TD-15C 17399 and Below		
		175C 17398 and Below		
4	1213 134 H91	BELT (matched set)-----		1
		TD-15C 17400 and Up		
		175C 17399 and Up		

(DT-414 for 530)

4	683 548 C1	BELT (matched set)-----		1
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NOTE: 433 and 444 use a hydraulic starter.
 Refer to Chassis Parts Catalog for "Hydraulic
 Starter and Related Parts".

ELECTRICAL

ALTERNATOR AND CRANKING MOTOR CONNECTIONS

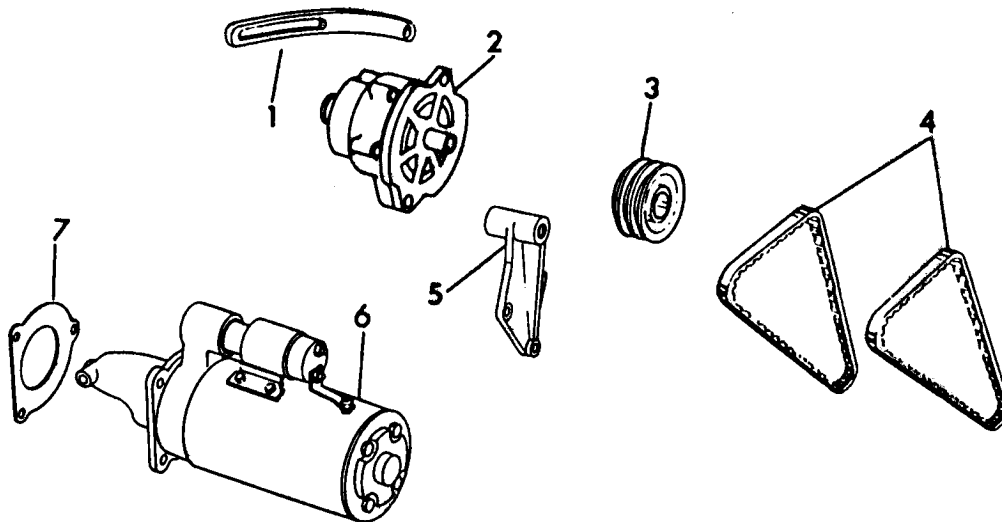
(DT-414B for 530)

(D-466 for TD-12)

(DT-466B for TD-12, TD-15C, H-80B, 175C, 412, 412B, and 540)

(DT-466C for 530, TD-15C and 175C)

(DTI-466C for 540)



CG-5657

ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR AND CRANKING MOTOR CONNECTIONS			
(DT-414B for 530)			
(D-466 for TD-12)			
(DT-466B for TD-12, TD-15C, H-80B, 175C, 412, 412B, and 540)			
(DT-466C for 530, TD-15C and 175C)			
(DTI-466C for 540)			
1	1210 342 H1	BRACE, alternator adjusting-----	1
	24 861 R1	SCREW, 1-1/4" hex-hd cap-----	1
	26 312 R1	SCREW, 1-1/2" hex-hd cap-----	1
	16 135 DA	SPACER, 3/16" thick-----	1
	345 409 R1	WASHER, hardened-----	2
	25 896 R1	WASHER, hardened-----	1
2		ALTERNATOR ASSY (Refer to "ALTERNATOR")	
3	1210 410 H1	PULLEY, alternator-----	1
4		(See Individual Engine Variation)	
5	689 427 C1	BRACKET, alternator-----	1
	25 522 R1	NUT, 3/8"-----	1
	24 534 R1	NUT, 1/2"-----	1
	25 296 R1	SCREW, 6-1/2" hex-hd cap-----	1
	275 804 R1	SCREW, 3" hex-hd cap-----	1
	26 273 R1	WASHER, hardened-----	2
	25 896 R1	WASHER, hardened-----	2
	25 236 R1	SCREW, 3" (DT-414B)-----	1
6		MOTOR ASSY, cranking (Refer to "CRANKING MOTOR")	
7	1211 455 H1	GASKET, cranking motor-----	1
	740 110 C1	CLIP, harness----- (At alternator bracket rear inner bolt)	1
	740 110 C1	CLIP, harness----- (At front bolt of breather housing)	1
	740 110 C1	CLIP, harness----- (At center bolt of lube filter base)	1

ELECTRICAL

ALTERNATOR AND CRANKING MOTOR CONNECTIONS - Continued

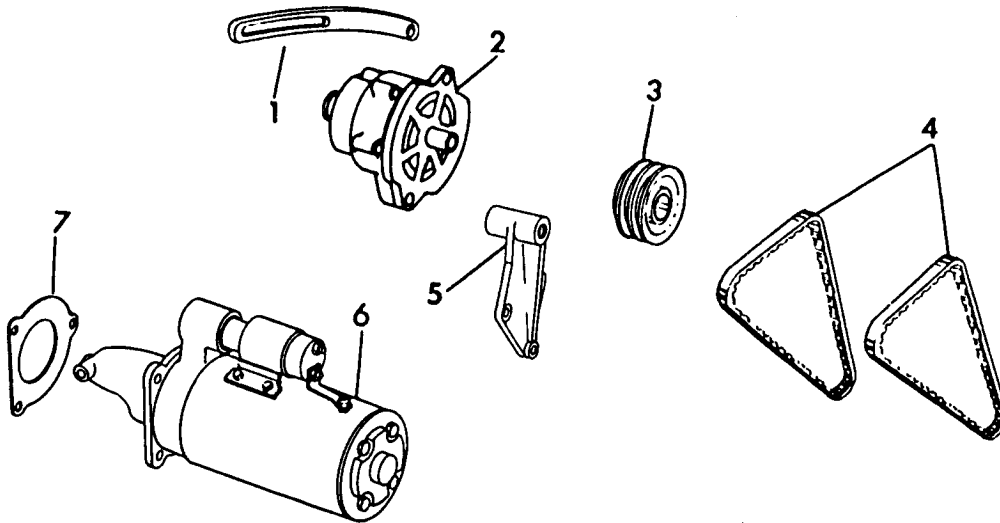
(DT-414B for 530)

(D-466 for TD-12)

(DT-466B for TD-12, TD-15C, H-80B, 175C, 412, 412B, and 540)

(DT-466C for 530, TD-15C and 175C)

(DTI-466C for 540)



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ELECTRICAL

Ref No	Part Number	Description	Quantity
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ALTERNATOR AND CRANKING MOTOR CONNECTIONS - Continued

(DT-414B for 530)
 (D-466 for TD-12)
 (DT-466B for TD-12, TD-15C, H-80B, 175C, 412, 412B, and 540)
 (DT-466C for 530, TD-15C and 175C)
 (DTI-466C for 540)

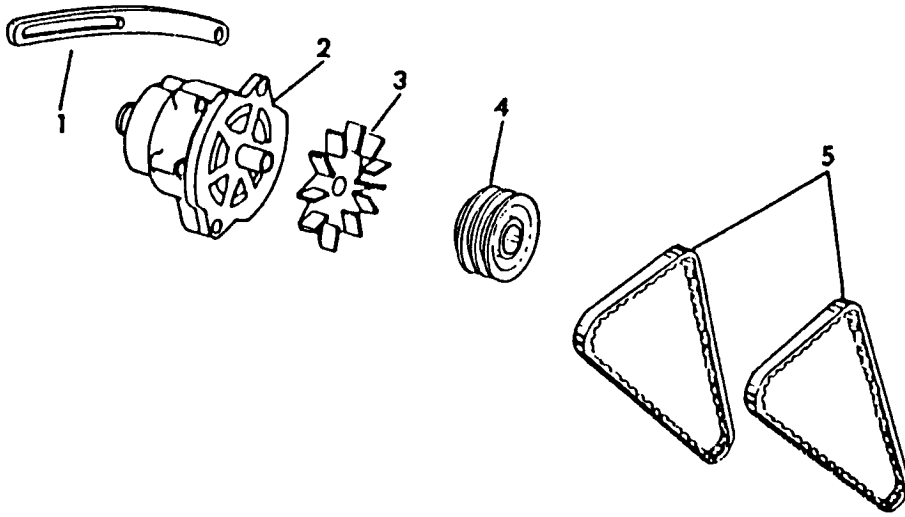
ENGINE VARIATIONS

(DT-414B for 530)
 (DT-466B for H-80B and 54C)
 (DT-466C for 530)
 (DTI-466C for 540)

4	683 548 C91	BELT (matched set)-----	1
		(DT-466B for 412)	
4	685 654 C91	BELT (matched set)-----	1
		(DT-466B for 412B)	
4	683 548 C91	BELT (matched set)-----	1
		(D-466 for TD-12) (DT-466B for TD-12, TD-15C and 175C) (DT-466C for TD-15C and 175C)	
4	683 848 C91	BELT (matched set)-----	1

ELECTRICAL

ALTERNATOR CONNECTIONS
(Galion Applications)



CG-5657A

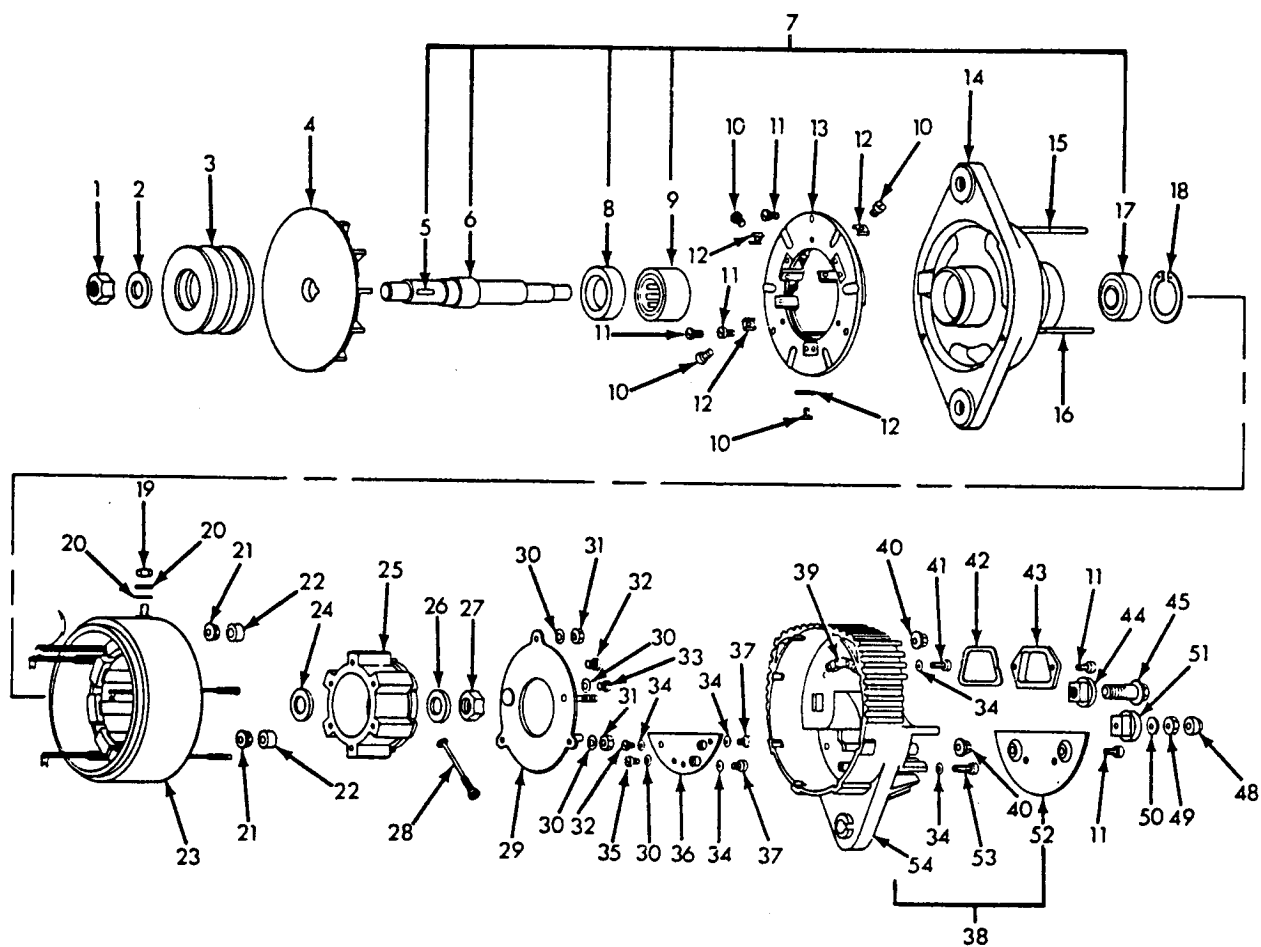
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR CONNECTIONS (Galion Applications)			
1	532 418 R1	BRACE, alternator adjusting----- LQ-157 LQ-165 LQ-157A LQ-165A LQ-158 LQ-166A LQ-158A LQ-166B LQ-159 LQ-167 LQ-161A LQ-167A LQ-161B LQ-168 LQ-163 LQ-170	1
	25 751 R1	SCREW, 5/16 x 1-1/4" hex-hd cap-----	1
	27 326 R1	WASHER, 5/16" hardened-----	1
2		ALTERNATOR ASSY (Refer to Chassis Parts Catalog)	
3	221 425 R1	FAN, alternator----- LQ-157 LQ-161B LQ-157A LQ-165 LQ-158 LQ-165A LQ-158A LQ-166A LQ-161A LQ-166B	1
4	537 070 R1	PULLEY, alternator----- LQ-157 LQ-161B LQ-157A LQ-165 LQ-158 LQ-165A LQ-158A LQ-166A LQ-161A LQ-166B	1
	25 522 R1	NUT, lock-----	1
	24 844 R1	SCREW, hex-hd cap-----	1
	25 896 R1	WASHER, hardened-----	2
5	673 417 C1	BELT (matched set)----- LQ-157 LQ-165 LQ-157A LQ-165A LQ-158 LQ-166A LQ-158A LQ-166B LQ-159 LQ-167 LQ-161A LQ-167A LQ-161B LQ-168 LQ-163 LQ-170	1

NOTE: For applications not listed here,
refer to chassis parts catalog.

ELECTRICAL

ALTERNATOR (24V - 50 AMP)



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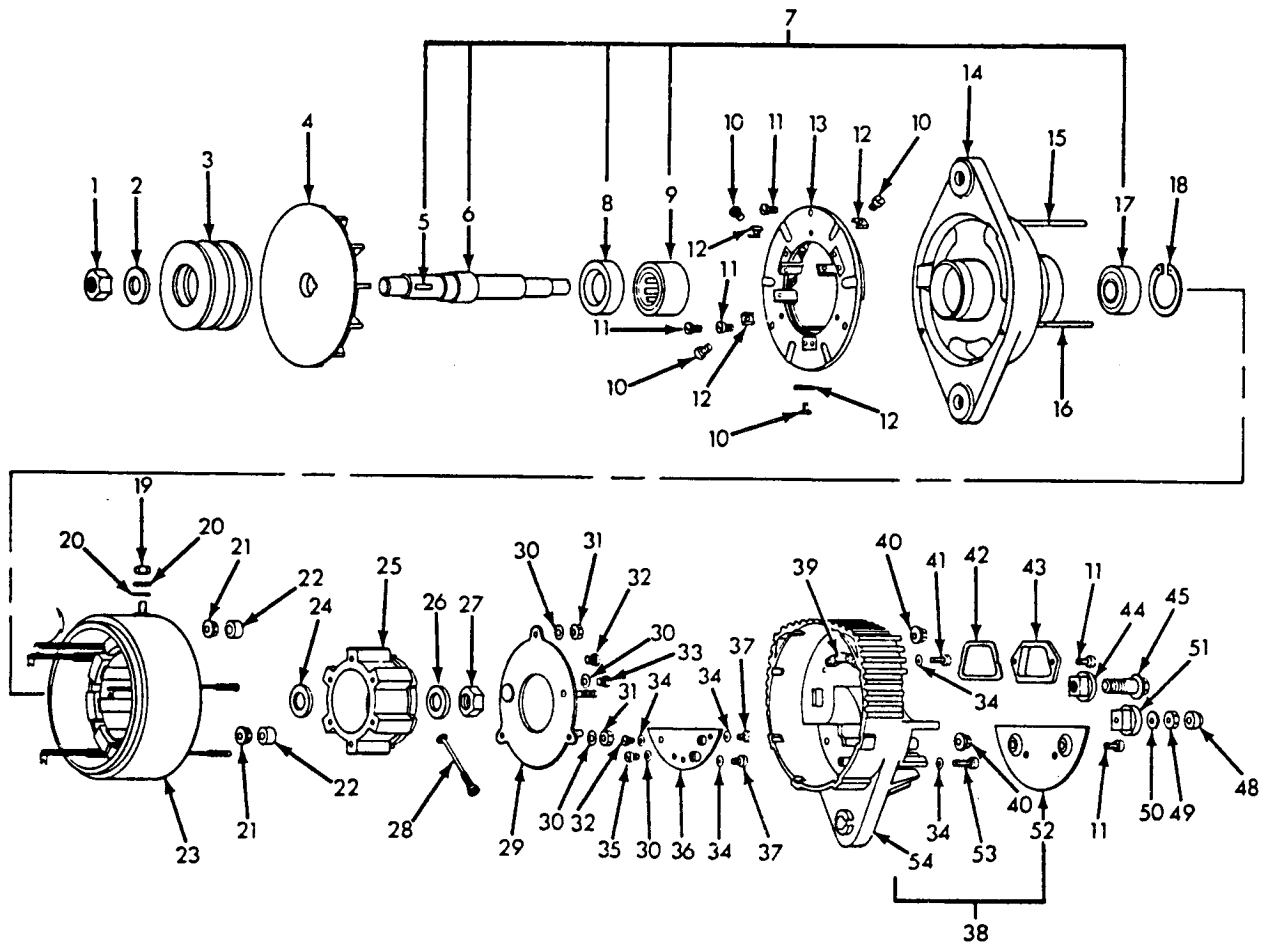
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (24V - 50 AMP)			
	1200 574 H91	ALTERNATOR ASSY, (Will work for 739 860 C91, 690 479 C91 and 683 728 C91) Consists of: (Except Ref. No. 3)	
1	(+)	NUT, 5/8"-18 lock-----	1
2	(+)	WASHER, 63" I.D. x 1.37" O.D. x .109" hardened----	1
3		PULLEY (Refer to "ALTERNATOR CONNECTIONS")	
4	634 325 C1	FAN-----	1
5		KEY, Woodruff (Also part of PACKAGE, 634 335 C91)-	NS
6		SHAFT, rotor-----	NS
7	634 332 C91	SHAFT ASSY, rotor-----	1
8		SEAL, bearing-----	NS
9		BEARING, front-----	NS
10	(+)	SCREW, No. 10-32 x 1/4" pan-hd-----	4
11	(+)	SCREW, No. 8-32 x 3/8" pan-hd-----	7
12	(+)	GUIDE, terminal-----	4
13	634 330 C1	HEAT SINK-----	1
14	634 334 C91	FORGING and FIELD WINDING-----	1
15	(+)	STUD, 4-1/8"-----	1
16	(+)	STUD, 4-3/4"-----	2
17		BEARING, rear-----	NS
18	(+)	RING, retaining-----	1
19	(+)	NUT, 1/4"-20 lock-----	1
20	(+)	WASHER, .260" I.D. x .56" O.D. x .040" flat-----	2

(+) - ORDER PACKAGE, 634 335 C91

ELECTRICAL

ALTERNATOR (24V - 50 AMP) - Continued



CG-5659

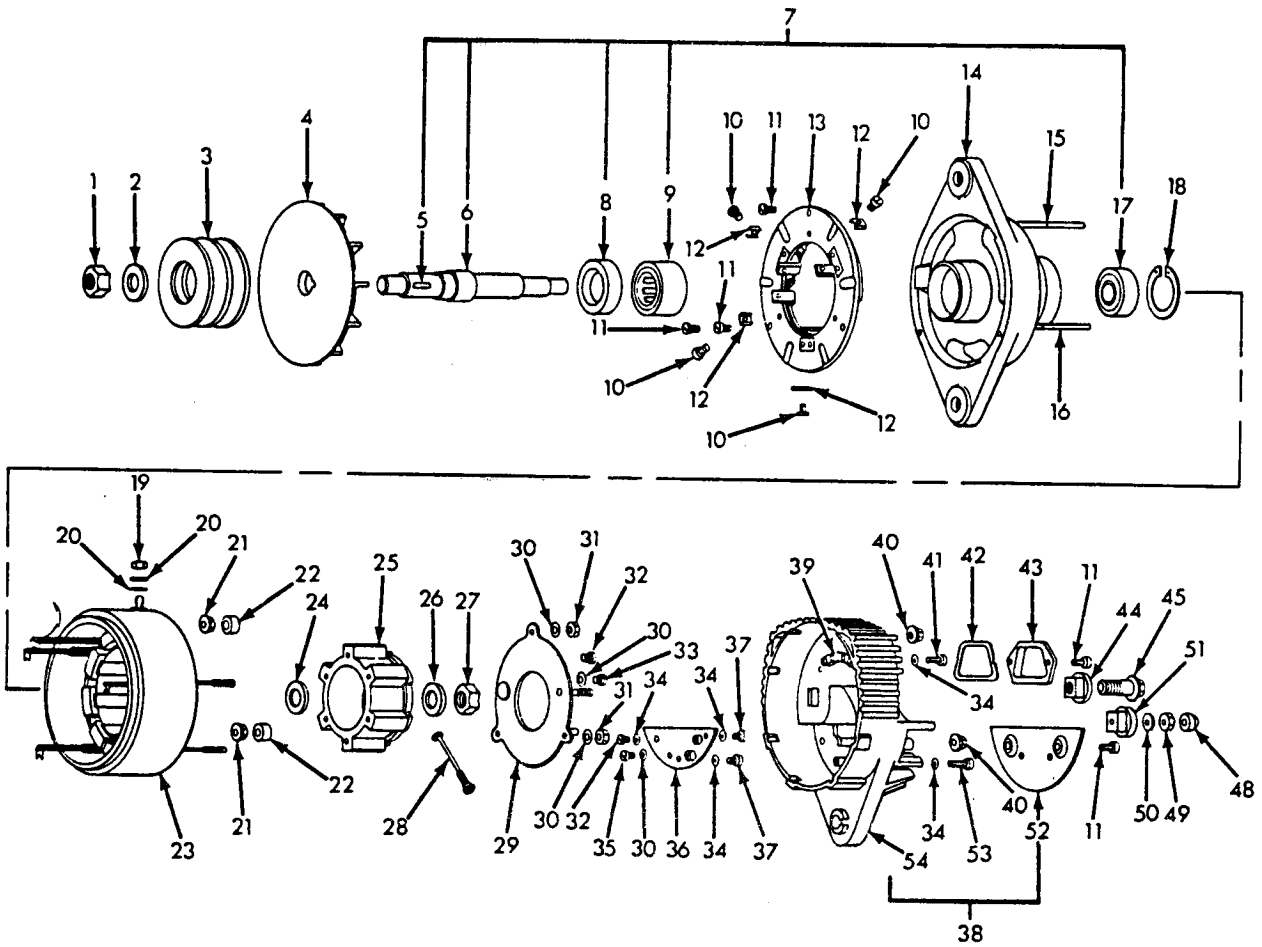
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (24V - 50 AMP) - Continued			
21	(+)	NUT, No. 10-32 flanged hex-----	3
22	(+)	BUSHING, .203" I.D. x .38" O.D. x .27"-----	3
23	637 476 C91	STATOR and SHELL-------	1
24	(+)	WASHER, .673" I.D. x 1.18" O.D. x .063" hardened--	1
25	719 712 C1	ROTOR-----	1
26	(+)	WASHER, .53" I.D. x 1.06" O.D. x .09" hardened----	1
27	(+)	NUT, 1/2"-20 lock-----	1
28	634 329 C1	CABLE, ground-----	1
29	719 711 C1	REGULATOR w/LOAD DUMP-----	1
30	(+)	WASHER, .209" I.D. x .365" O.D. x .015" spring----	6
31	(+)	NUT, No. 10-32 double chamfered, hex-----	3
32	(+)	SCREW, No. 6-32 x 3/16" pan-hd-----	2
33	(+)	SCREW, No. 10-32 x 3/16" pan-hd-----	2
34	(+)	WASHER, .140" I.D. x .240" O.D. x .015" spring----	7
35	(+)	SCREW, No. 8-32 x 3/16" binding head-----	1
36		LOAD DUMP (part of regulator)-----	NS
37	(+)	SCREW, No. 6-32 x 5/16" round head-----	3
38	634 326 C91	HOUSING ASSY, end-----	1
39	(+)	INSULATOR-----	1
40	(+)	NUT, No. 10-32 flanged hex lock-----	3
41	(+)	SCREW, No. 6-32 x 1/2" pan head-----	1
42	(+)	GASKET, cover-----	1

(+) - ORDER PACKAGE, 634 335 C91

ELECTRICAL

ALTERNATOR (24V - 50 AMP) - Continued



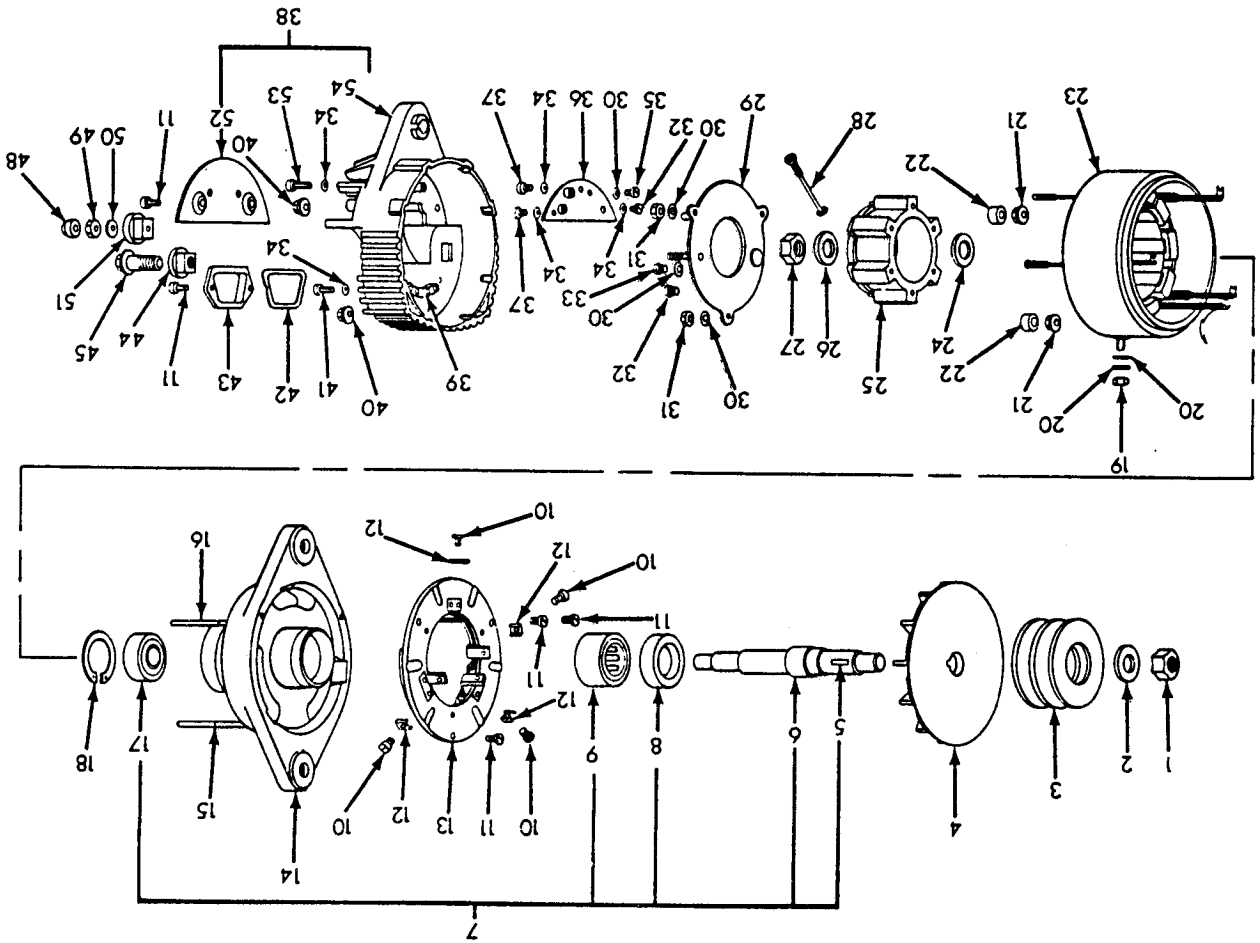
CG-5659

ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (24V - 50 AMP) - Continued			
43	(+)	COVER, voltage adjusting-----	1
44	(+)	INSULATOR (red)-----	1
45	1141 649 C1	BOLT, fusible link-output----- (Also part of PACKAGE, 634 335 C91)	1
48	(+)	CAP, rubber "R" terminal-----	1
49	(+)	NUT, No. 8-36 lock-----	1
50	(+)	WASHER, .171" I.D. x .500" O.D. x .035" flat-----	1
51	(+)	INSULATOR (white)-----	1
52		PLATE, cover-----	NS
53	(+)	SCREW, No. 6-32 x 5/8" pan-hd-----	1
54		HOUSING, end-----	NS
	634 335 C91	PACKAGE, small parts (hardware)----- (Consists of: Ref. Nos. 1, 2, 5, 10, 11, 12, 15, 16, 18 thru 22, 24, 26, 27, 30 thru 35, 37, 39 thru 51 and 53)	1

(+) - ORDER PACKAGE 634 335 C91

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ALTERNATOR (24V - 45 AMP)

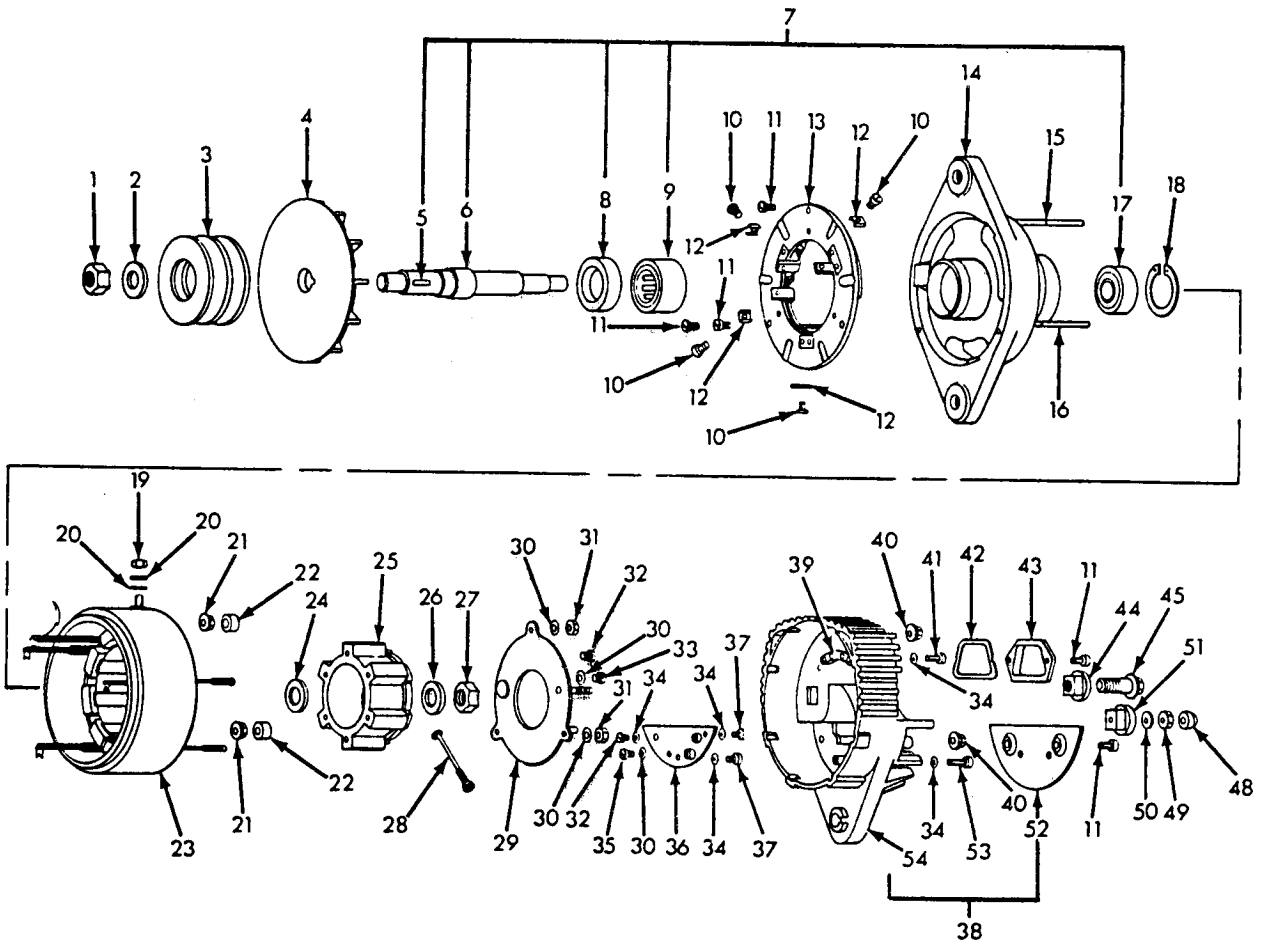
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (24V - 45 AMP)			
	683 728 C91	ALTERNATOR ASSY, (ORDER 1200 574 H91) Consists of: (Except Ref. No. 3)	
1	(+)	NUT, 5/8"-18 lock-----	1
2	(+)	WASHER, 63" I.D. x 1.37" O.D. x .109" hardened----	1
3		PULLEY (Refer to "ALTERNATOR CONNECTIONS")	
4	634 325 C1	FAN-----	1
5		KEY, Woodruff (Also part of PACKAGE, 634 335 C91)-	NS
6		SHAFT, rotor-----	NS
7	634 332 C91	SHAFT ASSY, rotor-----	1
8		SEAL, bearing-----	NS
9		BEARING, front-----	NS
10	(+)	SCREW, No. 10-32 x 1/4" pan-hd-----	4
11	(+)	SCREW, No. 8-32 x 3/8" pan-hd-----	7
12	(+)	GUIDE, terminal-----	4
13	634 330 C1	HEAT SINK-----	1
14	634 334 C91	FORGING and FIELD WINDING-----	1
15	(+)	STUD, 4-1/8"-----	1
16	(+)	STUD, 4-3/4"-----	2
17		BEARING, rear-----	NS
18	(+)	RING, retaining-----	1
19	(+)	NUT, 1/4"-20 lock-----	1
20	(+)	WASHER, .260" I.D. x .56" O.D. x .040" flat-----	2
21	(+)	NUT, No. 10-32 flanged hex-----	3

(+) - ORDER PACKAGE, 634 335 C91

ELECTRICAL

ALTERNATOR (24V - 45 AMP) - Continued



CG-5659

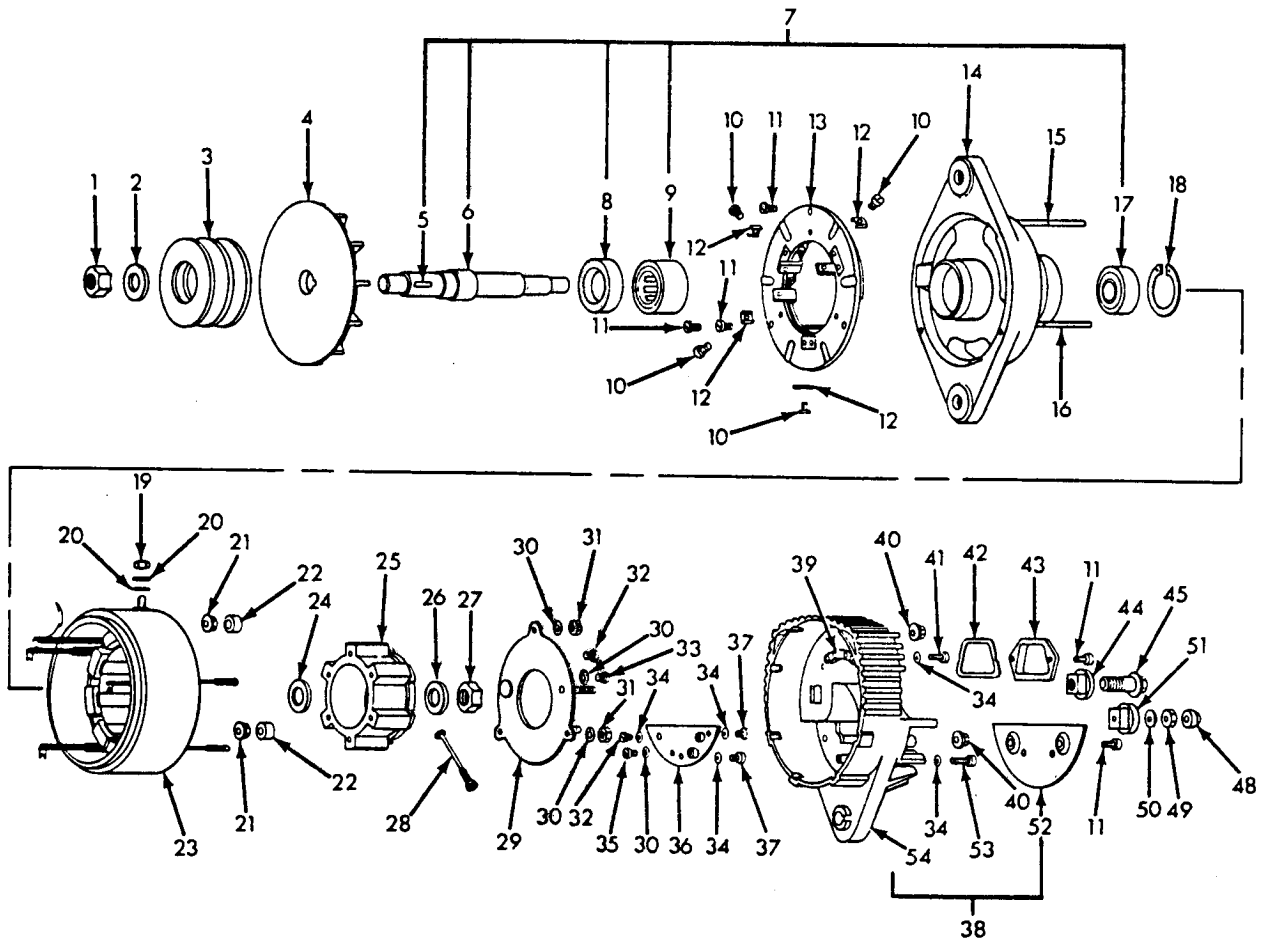
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (24V - 45 AMP) - Continued			
22	(+)	BUSHING, .203" I.D. x .38" O.D. x .27"-----	3
23	634 333 C91	STATOR and SHELL-----	1
24	(+)	WASHER, .673" I.D.- x 1.18" O.D. x .063" hardened--	1
25	719 712 C1	ROTOR-----	1
26	(+)	WASHER, .53" I.D. x 1.06" O.D. x .09" hardened----	1
27	(+)	NUT, 1/2"-20 lock-----	1
28	634 329 C1	CABLE, ground-----	1
29	719 711 C1	REGULATOR w/LOAD DUMP-----	1
30	(+)	WASHER, .209" I.D. x .365" O.D. x .015" spring----	6
31	(+)	NUT, No. 10-32 double chamfered, hex-----	3
32	(+)	SCREW, No. 6-32 x 3/16" pan-hd-----	2
33	(+)	SCREW, No. 10-32 x 3/16" pan-hd-----	2
34	(+)	WASHER, .140" I.D. x .240" O.D. x .015" spring----	7
35	(+)	SCREW, No. 8-32 x 3/16" binding head-----	1
36		LOAD DUMP (part of regulator)-----	NS
37	(+)	SCREW, No. 6-32 x 5/16" round head-----	3
38	634 326 C91	HOUSING ASSY, end-----	1
39	(+)	INSULATOR-----	1
40	(+)	NUT, No. 10-32 flanged hex lock-----	3
41	(+)	SCREW, No. 6-32 x 1/2" pan head-----	1
42	(+)	GASKET, cover-----	1
43	(+)	COVER, voltage adjusting-----	1

(+) - ORDER PACKAGE, 634 335 C91

ELECTRICAL

ALTERNATOR (24V - 45 AMP) - Continued



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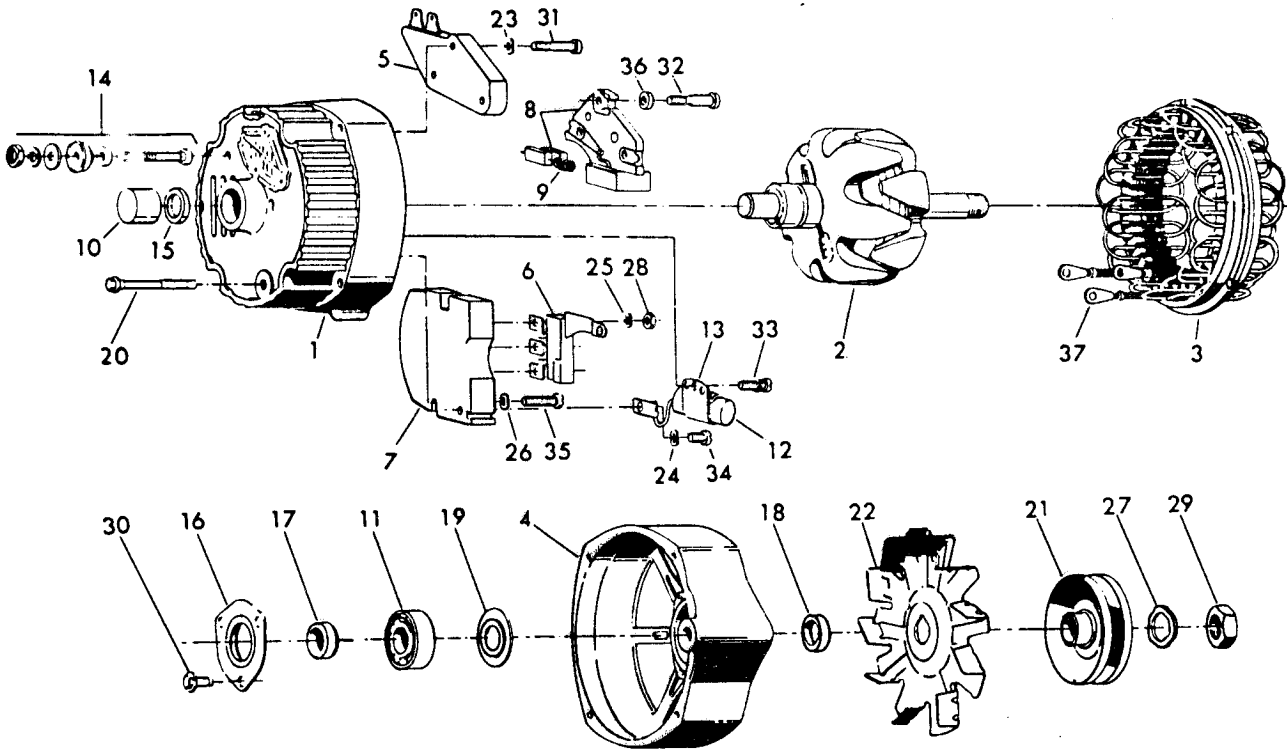
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (24V - 45 AMP) - Continued			
44	(+)	INSULATOR (red)-----	1
45	1141 649 C1	BOLT, fusible link output----- (Also part of PACKAGE, 634 335 C91)	1
48	(+)	CAP, rubber "R" terminal-----	1
49	(+)	NUT, No. 8-36 lock-----	1
50	(+)	WASHER, .171" I.D. x .500" O.D. x .035" flat-----	1
51	(+)	INSULATOR (white)-----	1
52		PLATE, cover-----	NS
53	(+)	SCREW, No. 6-32 x 5/8" pan-hd-----	1
54		HOUSING, end-----	NS
	634 335 C91	PACKAGE, small parts (hardware)----- (Consists of: Ref. Nos. 1, 2, 5, 10, 11, 12, 15, 16, 18 thru 22, 24, 26, 27, 30 thru 35, 37, 39 thru 51 and 53)	1

(+) - ORDER PACKAGE 634 335 C91

ELECTRICAL

ALTERNATOR (Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

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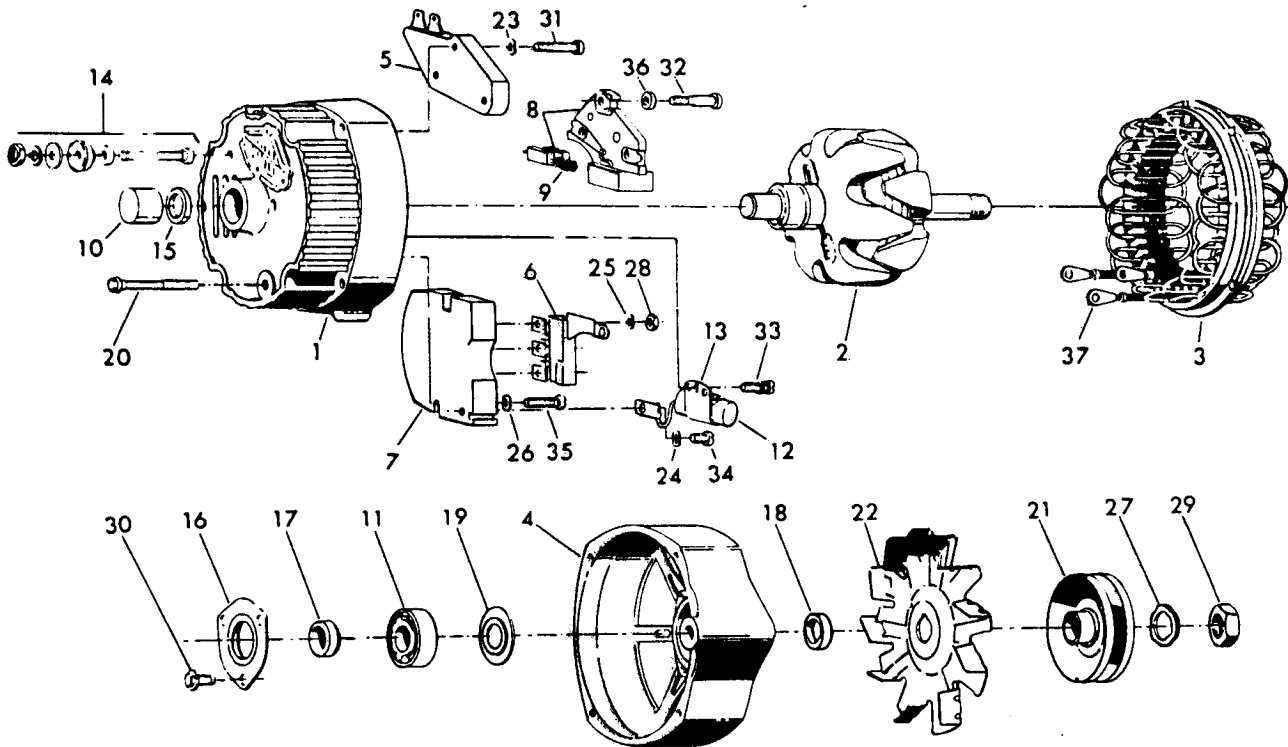
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (Delco-Remy)			
PARTS WITHOUT LETTERS AFTER THE DESCRIPTION INDICATES THE PART IS USED FOR BOTH ASSEMBLIES LISTED BELOW.			
A	1100 077	ALTERNATOR ASSY-----	1
B	1100 078	ALTERNATOR ASSY-----	1
1	1852 630	FRAME ASSY w/BEARING, 7451 782 and SEAL, 1961 323, rectifier end (A)-----	1
1	1876 189	FRAME ASSY w/BEARING, 7451 782 and SEAL, 1961 323, rectifier end (B)-----	1
2	1870 542	ROTOR ASSY (A)-----	1
2	1870 545	ROTOR ASSY (B)-----	1
3	801 818	STATOR ASSY w/CLIP, 801 828 (A)-----	1
3	1891 195	STATOR ASSY w/CLIP, 801 828 (B)-----	1
4	1852 038	FRAME ASSY, diode end (A)-----	1
4	1870 547	FRAME ASSY, diode end (B)-----	1
5	1116 388	REGULATOR-----	1
6	801 817	DIODE, trio-----	1
7	1892 914	RECTIFIER, bridge-----	1
8	1852 002	BRUSH and HOLDER ASSY w/SPRING, 1964 117-----	1
9	1964 117	SPRING, brush-----	1
10	7451 782	BEARING, rectifier end roller-----	1
11	907 940	BEARING, diode end ball-----	1
12	801 824	CAPACITOR-----	1
13	1869 573	BRACKET, capacitor-----	1
14	1846 901	PACKAGE, battery terminal-----	1
15	1961 323	SEAL, bearing-----	1

ALWAYS GIVE ALTERNATOR NUMBER WHEN ORDERING PARTS

ELECTRICAL

ALTERNATOR - Continued (Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

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ELECTRICAL

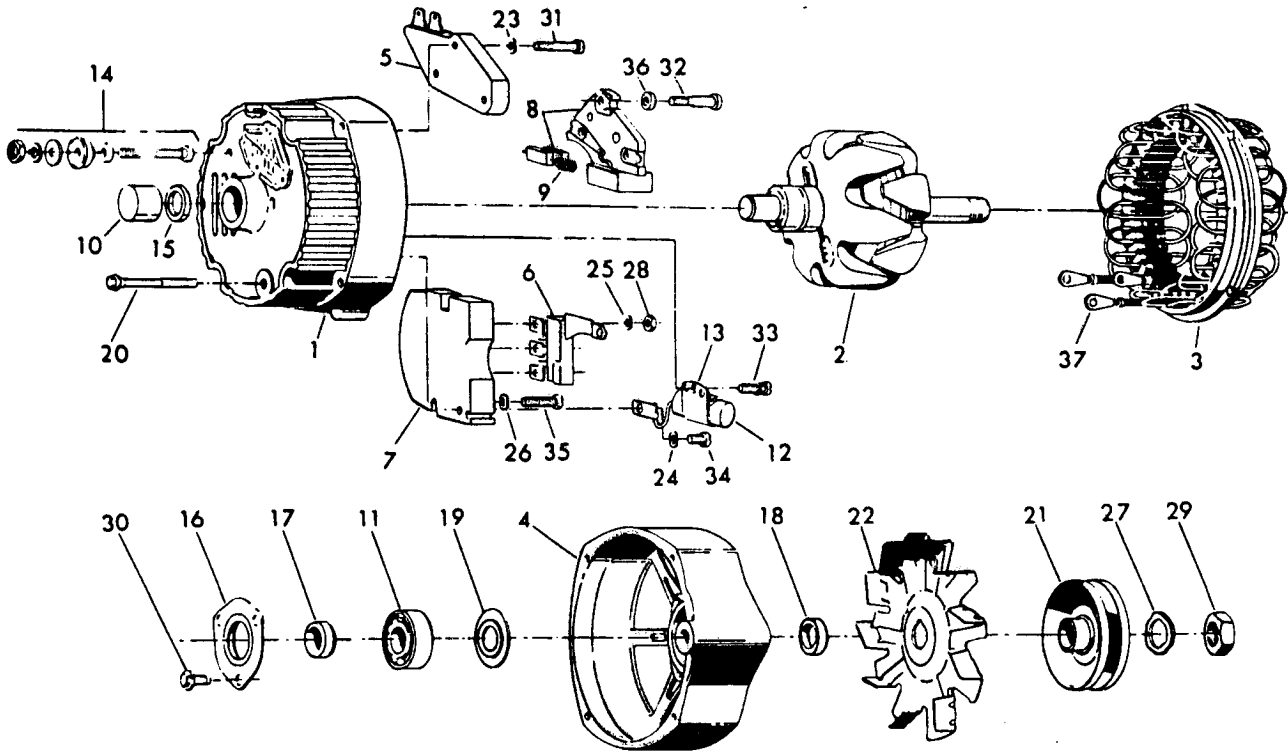
Ref No	Part Number	Description	Quantity
ALTERNATOR - Continued (Delco-Remy)			
16	1961 867	PLATE, diode end ball bearing retainer-----	1
17	1970 384	COLLAR, diode end (inside)-----	1
18	1969 046	COLLAR, diode end (outside)-----	1
19		NOT USED	
20	801 810	BOLT, thru-----	4
21		PULLEY (Not furnished as part of Alternator Assembly) (+)	
22	1969 481	FAN-----	1
26	1847 933	WASHER, rectifier bridge attaching screw lock-----	2
27	1905 406	WASHER, shaft nut diode end-----	1
28	453 434	NUT, rectifier bridge-----	3
29	9418 881	NUT, shaft diode end (A)-----	1
30	9411 396	SCREW, ball bearing retainer attaching (A)-----	1
30	159 920	SCREW, ball bearing retainer attaching (B)-----	1
31	1971 519	SCREW, brush holder attaching (Grd)-----	1
32	1846 864	SCREW, brush holder attaching (Insulating)-----	2
33	1851 612	SCREW and LOCKWASHER, capacitor bracket-----	1
34	1851 612	SCREW, lead attaching-----	1
35	1970 145	SCREW, rectifier bridge attaching-----	2
36	1876 895	WASHER (Rubber) brush holder-----	1
37	801 828	CLIP, stator lead terminal-----	3

(+) - REFER TO "ALTERNATOR AND CRANKING
MOTOR CONNECTIONS"

ALWAYS GIVE ALTERNATOR NUMBER WHEN ORDERING PARTS

ELECTRICAL

ALTERNATOR - Continued (Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

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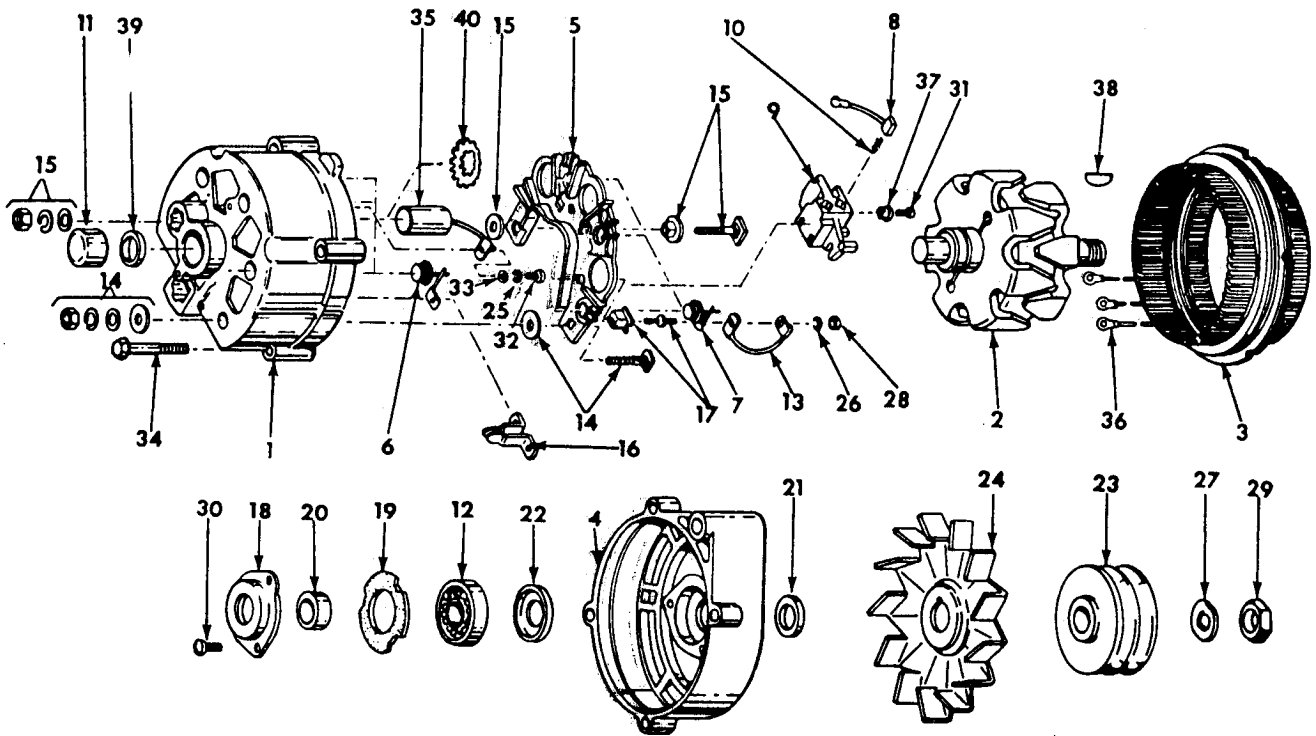
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR - Continued (Delco-Remy)			
1852 043		BRACKET, regulator connector body-----	1
196 990		BUSHING, S.R.E. mounting hinge-----	1
801 532		CAP, voltage adjustment-----	1
1970 227		CAP, relay terminal cover-----	1
801 815		CONNECTOR, battery terminal to rectifier bridge-----	1
801 548		CONNECTOR, body regulator-----	1
1852 032		CONNECTOR, relay terminal to rectifier bridge-----	1
1969 070		DUST SHIELD, diode end-----	1
1955 663		GASKET, ball bearing retainer-----	1
1876 080		LEAD, rectifier bridge to regulator stud-----	1
1851 808		NUT, regulator stud-----	1
455 532		PIN, dowel S.R.E.-----	1
1955 664		PLATE, felt retainer-----	1
1969 056		PLUG, bearing well-----	1
1852 950		SEAL, field terminal (B)-----	1
1851 612		SCREW, battery terminal connector-----	1
1851 612		SCREW, capacitor lead attaching-----	1
453 435		WASHER, lock ball bearing retainer attaching (B)-----	1
1905 406		WASHER, shaft nut diode end-----	1
1955 660		WASHER, felt diode end-----	1
453 306		WASHER, regulator connecting body bracket (A)-----	1

ALWAYS GIVE ALTERNATOR NUMBER WHEN ORDERING PARTS

ELECTRICAL

ALTERNATOR
(Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5658A

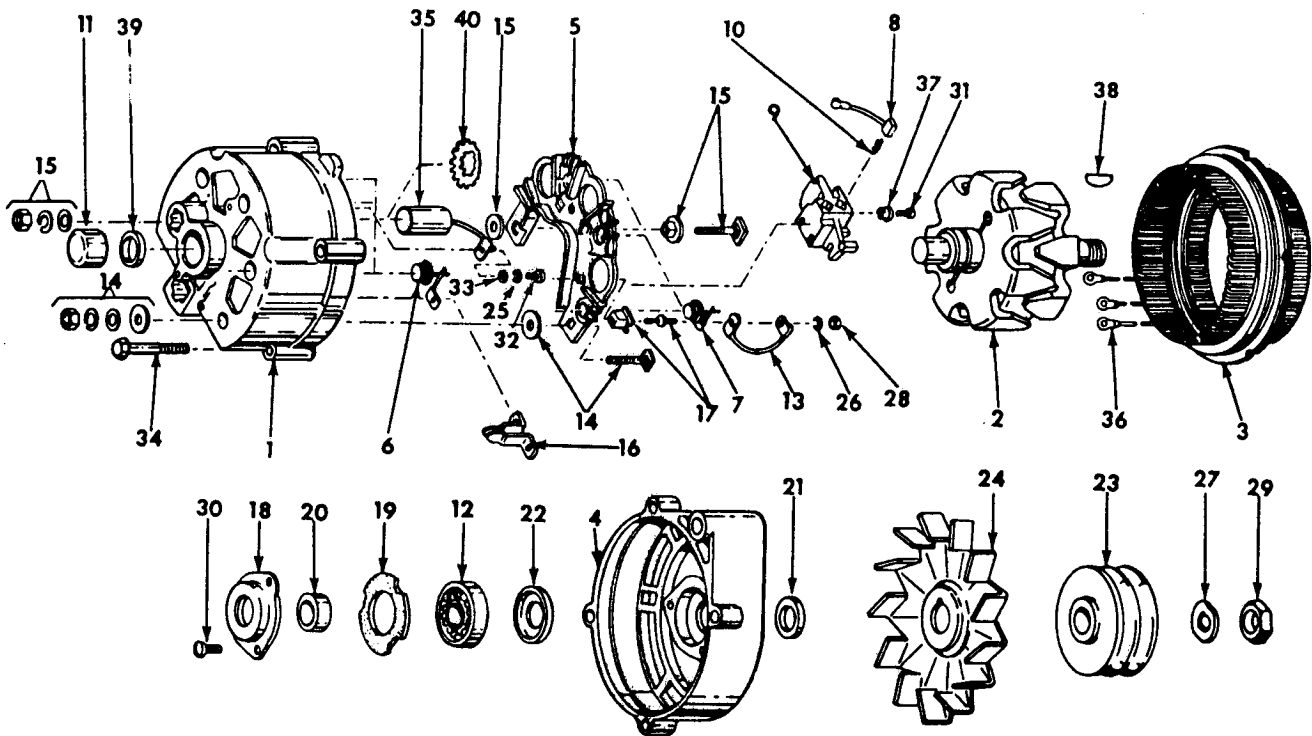
ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR (Delco-Remy)			
PARTS WITHOUT LETTERS AFTER THE DESCRIPTION INDICATES THE PART IS USED FOR BOTH ALTERNATORS LISTED BELOW.			
A	1100 061	ALTERNATOR ASSY-----	1
B	1100 062	ALTERNATOR ASSY-----	1
1	1971 701	FRAME ASSY, slip ring end (A)----- Consists of:	1
	7451 782	BEARING-----	1
	NSS	FRAME-----	1
	1964 354	DIODE-----	1
	1961 323	SEAL-----	1
	1960 750	SPRING-----	1
1	1971 702	FRAME ASSY, slip ring end (B)----- Consists of:	1
	7451 782	BEARING-----	1
	NSS	FRAME-----	1
	1964 354	DIODE-----	1
	1961 323	SEAL-----	1
	1960 750	SPRING-----	1
2	1971 264	ROTOR (A)-----	1
2	1971 260	ROTOR (B)-----	1
3	1971 220	STATOR w/three CLIP, 1959 532-----	1
4	1969 043	FRAME, drive end (A)-----	1
4	1969 066	FRAME, drive end (B)-----	1
5	1971 703	SINK w/PACKAGE, 1959 834, DIODE, 1964 353, WASHER, 9419 392 and three NUT, 453 434, heat-----	1
6	1964 354	DIODE, negative-----	1
7	1964 353	DIODE, positive-----	1
8		BRUSH (Order HOLDER, 1964 682)-----	1
9	1964 682	HOLDER w/BRUSH and SPRING, 1964 117, brush-----	1

ALWAYS GIVE ALTERNATOR NUMBER WHEN ORDERING PARTS

ELECTRICAL

ALTERNATOR - Continued (Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5658A

ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR - Continued (Delco-Remy)			
10	1964 117	SPRING, brush-----	1
11	7451 782	BEARING, slip ring end roller-----	1
12	907 940	BALL BEARING-----	1
13		NOT USED	
14	1971 704	PACKAGE, battery terminal-----	1
15	1971 705	PACKAGE, relay terminal-----	1
16		NOT USED	
17	1959 834	PACKAGE, diode junction terminal-----	1
18	1961 867	PLATE, ball bearing retainer-----	1
19	1955 663	GASKET, ball bearing retainer plate-----	1
20	1970 384	COLLAR, inside-----	1
21	1969 046	COLLAR, shaft (outside)-----	1
22		NOT USED	
23		NOT USED	
24	1969 034	FAN, alternator (A)-----	1
24	1969 069	FAN, alternator (B)-----	1
25	9419 392	WASHER, capacitor terminal and heat sink attaching screw lock-----	1
26	9419 392	WASHER, diode junction terminal lock-----	1
27	1905 406	WASHER, shaft nut-----	1
28	453 434	NUT, diode junction terminal-----	1
29	9418 881	NUT, shaft-----	1

ALWAYS GIVE ALTERNATOR NUMBER WHEN ORDERING PARTS

ELECTRICAL

Ref No	Part Number	Description	Quantity
ALTERNATOR - Continued (Delco-Remy)			
30	1965 104	SCREW, ball bearing retainer plate attaching-----	1
31	1957 501	SCREEN, brush holder attaching-----	1
32	1916 336	SCREW, capacitor terminal and heat sink attaching----	1
33		NOT USED	
34	1956 975	BOLT, thru-----	1
35	1959 455	CAPACITOR-----	1
36	1846 548	CLIP, stator terminal-----	3
37		NOT USED	
38		NOT USED	
39	1961 323	SEAL, slip ring end roller bearing-----	1
40	1960 750	RETAINER, capacitor retaining spring-----	1
	1969 073	CONNECTOR, strap (relay terminal to diode junction)--	1
	1969 062	BUSHING, slip ring end mounting-----	1
	1969 055	DAMPENER, heat sink-----	1
	1959 389	INSULATOR, capacitor terminal screw and heat sink----	1
	1969 052	INSULATOR, capacitor terminal and heat sink attaching screw-----	1
	455 160	PIN, dowel (slip ring end)-----	1
	1955 664	PLATE, felt retainer (drive end)-----	1
	1969 056	PLUG, slip ring end expansion-----	1
	132 900	SCREW, ground-----	1
	1970 722	SEAL, relay terminal-----	1
	1969 042	SEAL, rotor shaft-----	1

ALWAYS GIVE ALTERNATOR NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR

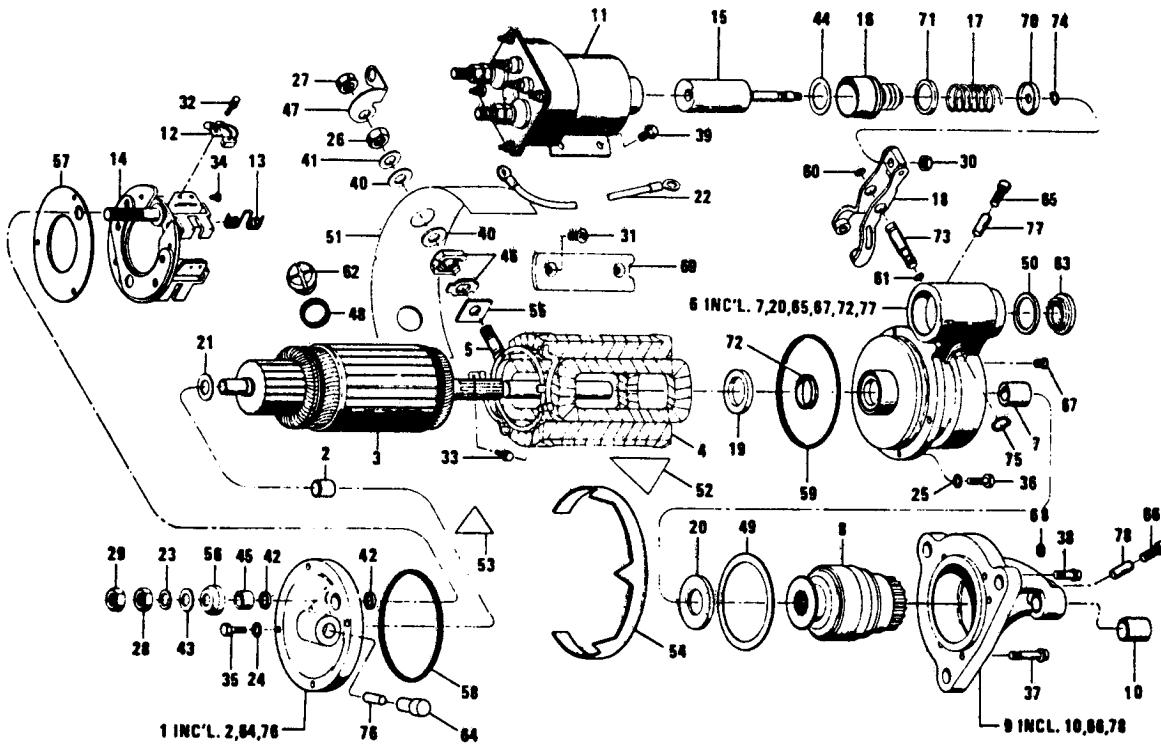
(Delco-Remy)

(DT-414B for 530)

(DT-466B for TD-12, H-80B, 412, 412B and 540)

(DT-466C for 530)

(DTI-466C for 540)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

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ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR			
(Delco-Remy)			
(DT-414B for 530)			
(DT-466B for TD-12, H-80B, 412, 412B and 540)			
(DT-466C for 530)			
(DTI-466C for 540)			
	1955 660	WASHER, felt (drive end)-----	1
	9419 392	WASHER, spring brush holder attaching screw-----	1
	1114 858	MOTOR ASSY, cranking (order 1114 910)-----	1
	27 406 R1	SCREW, 1/2 x 1-3/4" hex-hd cap-----	3
	26 273 R1	WASHER, hardened-----	3
Consists of:			
1	1945 515	FRAME-----	1
2	1894 636	BUSHING-----	1
3	1945 500	ARMATURE-----	1
4	1974 929	FIELD COIL ASSY-----	1
5	1950 561	STUD, terminal-----	1
6	1979 434	HOUSING, lever-----	1
7	1894 637	BUSHING-----	1
8	1977 005	DRIVE ASSY, motor-----	1
9	1969 323	HOUSING, drive-----	1
10	1894 635	BUSHING-----	1
11	1115 559	SWITCH ASSY, solenoid (Refer to "Solenoid Switch")---	1
12	1852 883	BRUSH-----	1
13	1979 391	SPRING, brush-----	1
14	1979 387	BRUSH PLATE-----	1
15	1948 522	PLUNGER-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued

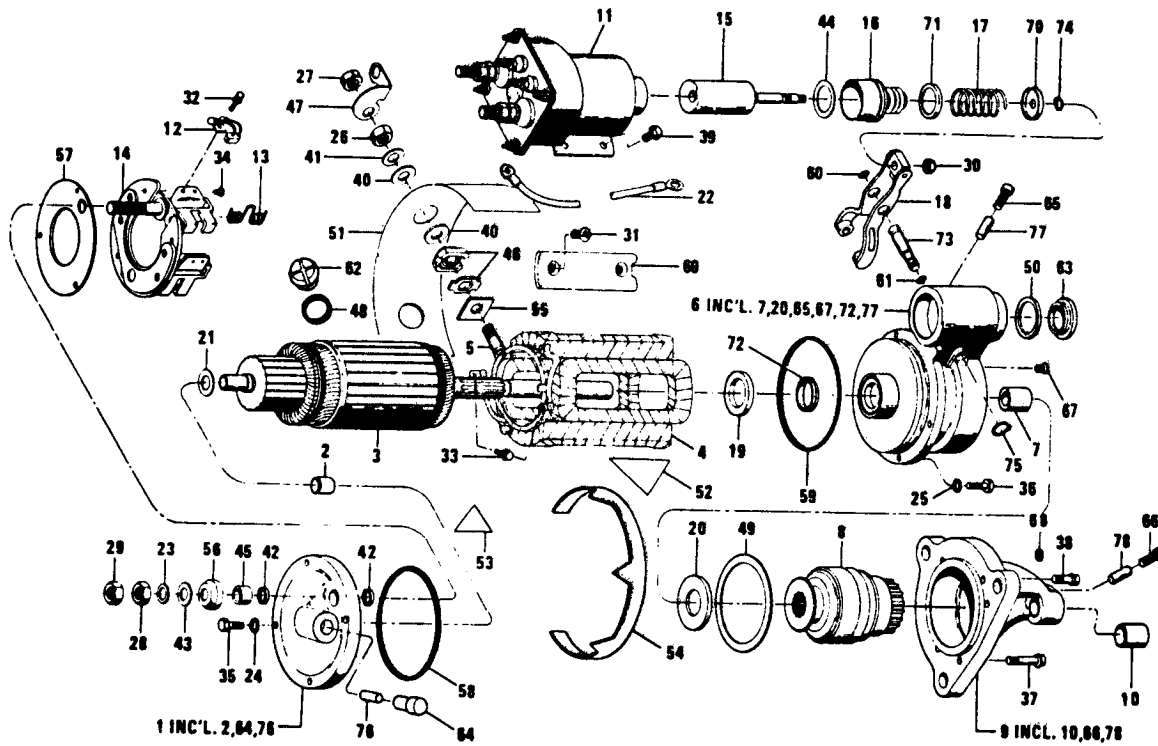
(Delco-Remy)

(DT-414B for 530)

(DT-466B for TD-12, H-80B, 412, 412B and 540)

(DT-466C for 530)

(DTI-466C for 540)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-9295

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414B for 530)			
(DT-466B for TD-12, H-80B, 412, 412B and 540)			
(DT-466C for 530)			
(DTI-466C for 540)			
16	801 077	BOOT, plunger-----	1
17	1948 521	SPRING, plunger-----	1
18	1945 484	LEVER, shift-----	1
19	1936 466	WASHER, space-----	1
20	1911 644	WASHER, brake-----	1
21	1914 842	WASHER, thrust-----	1
22	1979 464	LEAD and TERMINAL-----	1
23	9421 427	WASHER, lock-----	1
24	9421 423	WASHER, lock-----	1
25	9421 423	WASHER, lock-----	1
26	9414 418	NUT, field terminal stud-----	1
27	1979 451	NUT (and WASHER) - field terminal stud-----	1
28	9414 418	NUT - C.E. terminal stud-----	1
29	1979 451	NUT (and WASHER) - C.E. terminal stud-----	1
30	9412 305	NUT, plunger rod guide adjusting-----	1
31	1968 396	SCREW, pole shoe-----	1
32	1968 998	SCREW, brush lead attach.-----	1
33	1968 998	SCREW, field coil lead to brush holder attach.-----	1
34	1847 807	SCREW (and LOCKWASHER), brush plate attach.-----	1
35	1914 869	SCREW, C.E. frame attach.-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued

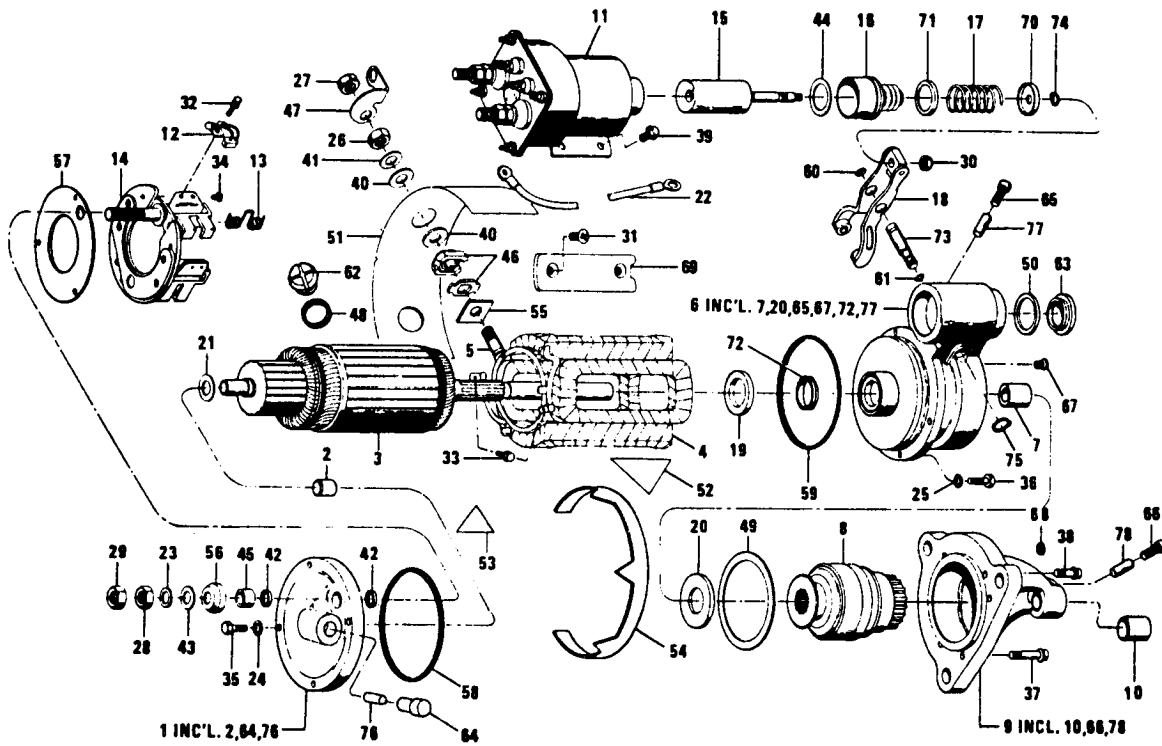
(Delco-Remy)

(DT-414B for 530)

(DT-466B for TD-12, H-80B, 412, 412B and 540)

(DT-466C for 530)

(DTI-466C for 540)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-9295

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414B for 530)			
(DT-466B for TD-12, H-80B, 412, 412B and 540)			
(DT-466C for 530)			
(DTI-466C for 540)			
36	1914 869	SCREW, lever housing attach.-----	1
37	1948 536	SCREW, drive housing attach.-----	1
38	1948 537	SCREW, drive housing attach.-----	1
39	1930 611	SCREW (and LOCKWASHER), switch attach.-----	1
40	1922 457	WASHER, insulated, field terminal stud-----	1
41	1914 647	WASHER, plain, field terminal stud-----	1
42	1861 791	WASHER, insulated, C.E. terminal stud-----	1
43	1914 647	WASHER, plain, C.E. terminal stud-----	1
44	1948 519	WASHER, plunger spring retainer-----	1
45	1851 632	BUSHING (Package) C.E. terminal stud-----	1
46	1965 472	BUSHING (Package), field terminal stud-----	1
47	1945 468	CONNECTOR, field terminal to switch-----	1
48	1964 857	GASKET, C.E. inspection plug-----	1
49	1945 476	GASKET (between lever and drive housing)-----	1
50	1964 857	GASKET, lever housing inspect plug-----	1
51	1955 990	INSULATOR, field coil C.E.-----	1
52	1914 873	INSULATOR, field coil D.E.-----	1
53		NOT USED	
54		NOT USED	
55		NOT USED	
56	1815 632	INSULATOR (Package), terminal stud C.E.-----	1
57		NOT USED	

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414B for 530)			
(DT-466B for TD-12, H-80B, 412, 412B and 540)			
(DT-466C for 530)			
(DTI-466C for 540)			
58	1916 272	"O" RING-----	1
59	1916 272	"O" RING-----	1
60	1894 643	"O" RING-----	1
61	1894 642	"O" RING-----	1
62	1945 356	PLUG, brush inspection-----	1
63	1945 356	PLUG, lever housing inspection-----	1
64	1978 756	PLUG, oil reservoir, C.E.-----	1
65	1978 756	PLUG, oil reservoir, lever housing-----	1
66	1978 756	PLUG, oil reservoir, D.E.-----	1
67	1964 402	PLUG, lever housing mount hole-----	1
68		NOT USED	
69	1934 478	POLE SHOE-----	1
70	1948 526	RETAINER, plunger spring-----	1
71	1948 520	RETAINER, plunger spring-----	1
72	1918 047	SEAL, oil, lever housing-----	1
73	1948 529	SHAFT, shift lever-----	1
74	9415 235	SNAP RING, plunger spring retainer-----	1
75	9415 235	SNAP RING, shift lever shaft-----	1
76	1972 977	WICK, oil-----	1
77	1978 754	WICK, oil lever housing-----	1
78	1978 754	WICK, oil-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

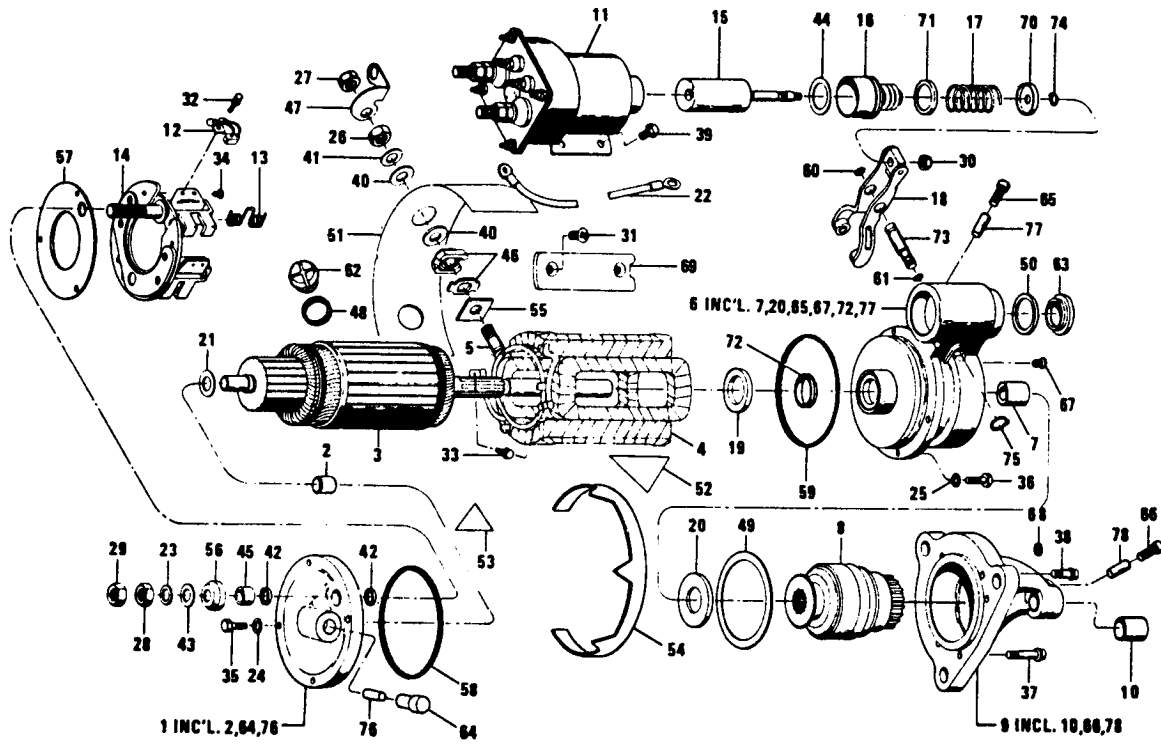
ELECTRICAL

CRANKING MOTOR

(Delco-Remy)

(DT-466B for TD-15C and 175C)

(DT-466C for TD-15C and 175C)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-9295

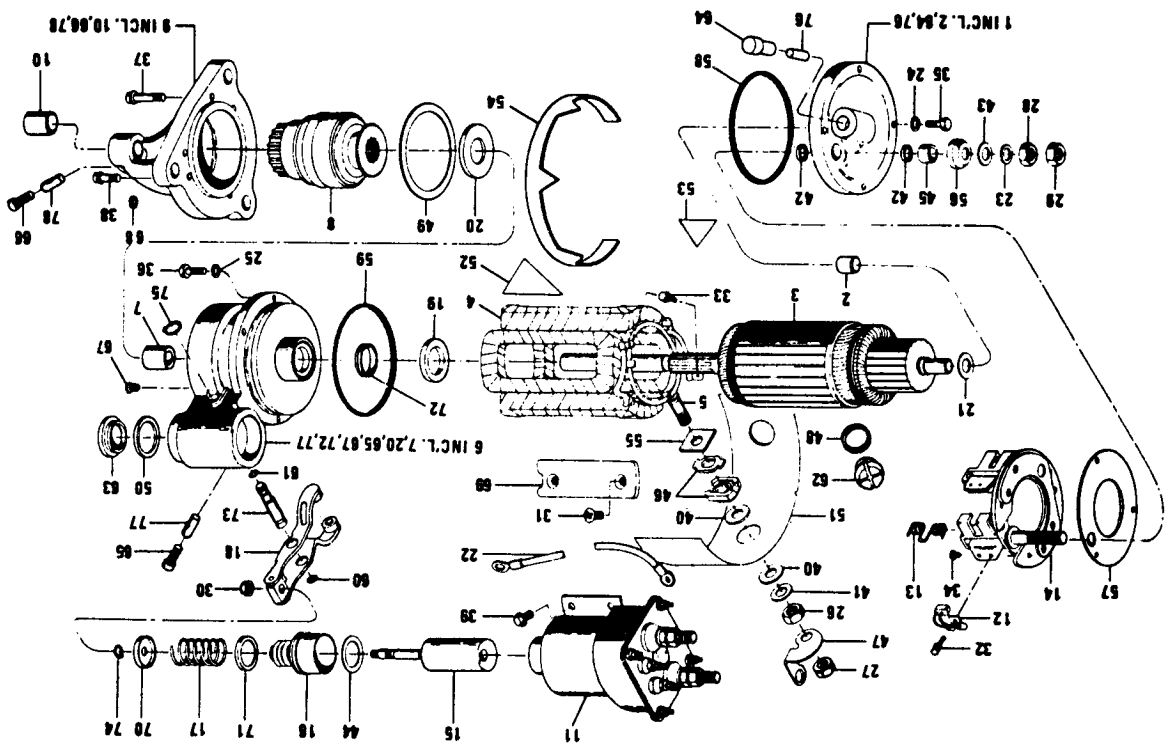
ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR			
(Delco-Remy)			
(DT-466B for TD-15C and 175C)			
(DT-466C for TD-15C and 175C)			
1114	860	MOTOR ASSY, cranking-----	1
	27 406 R1	SCREW, 1/2 x 1-3/4" hex-hd cap-----	3
	26 273 R1	WASHER, hardened-----	3
Consists of:			
1	1945 515	FRAME-----	1
2	1894 636	BUSHING-----	1
3	1945 500	ARMATURE-----	1
4	1974 929	FIELD COIL ASSY-----	1
5	1950 561	STUD, terminal-----	1
6	1979 434	HOUSING, lever-----	1
7	1894 637	BUSHING-----	1
8	1977 005	DRIVE ASSY, motor-----	1
9	1969 323	HOUSING, drive-----	1
10	1894 635	BUSHING-----	1
11	1115 558	SWITCH ASSY, solenoid-----	1
12	1852 883	BRUSH-----	1
13	1979 391	SPRING, brush-----	1
14	1979 387	BRUSH PLATE-----	1
15	1948 522	PLUNGER-----	1
16	801 077	BOOT, plunger-----	1
17	1948 521	SPRING, plunger-----	1
18	1945 484	LEVER, shift-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

CG-9295

ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY



CRANKING MOTOR - continued
 (Delco-Remy)
 (DT-466B for TD-15C and 175C)
 (DT-466C for TD-15C and 175C)

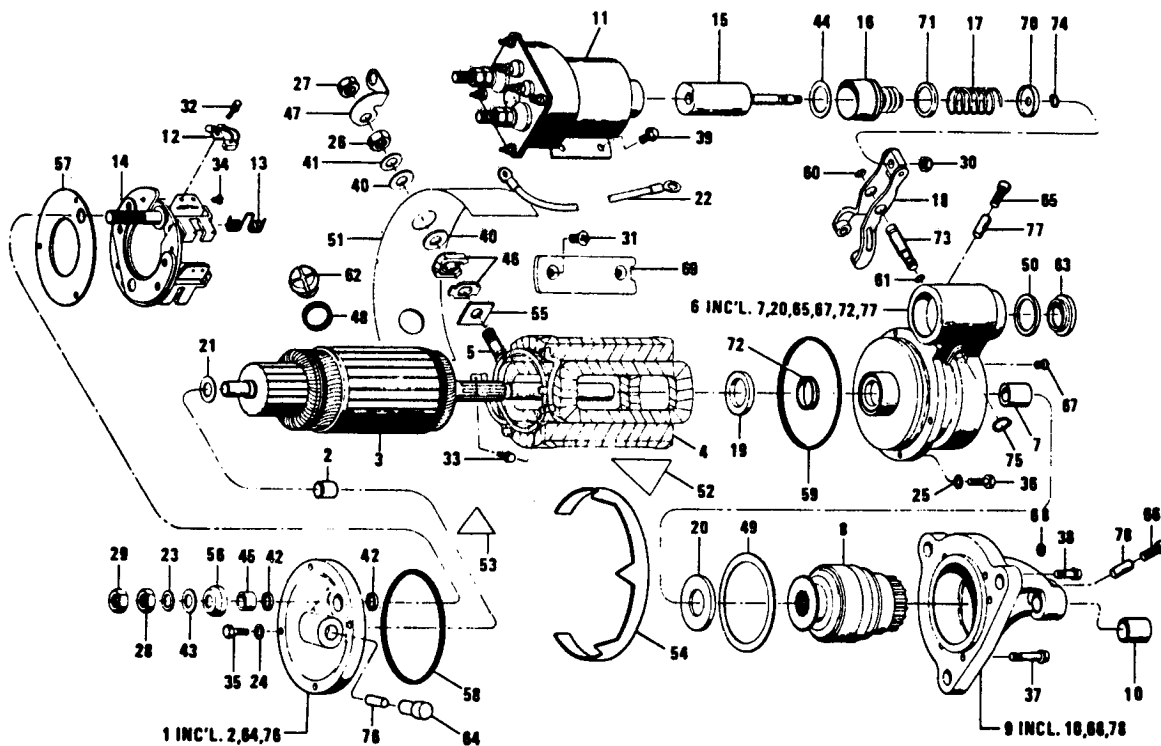
ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-466B for TD-15C and 175C)			
(DT-466C for TD-15C and 175C)			
19	1936 466	WASHER, space-----	1
20	1911 644	WASHER, brake-----	1
21	1914 842	WASHER, thrust-----	1
22	1979 464	LEAD and TERMINAL-----	1
23	9421 427	WASHER, lock-----	1
24	9421 423	WASHER, lock-----	1
25	9421 423	WASHER, lock-----	1
26	9414 418	NUT, field terminal stud-----	1
27	1979 451	NUT (and WASHER) - field terminal stud-----	1
28	9414 418	NUT - C.E. terminal stud-----	1
29	1979 451	NUT (and WASHER) - C.E. terminal stud-----	1
30	9412 305	NUT, plunger rod guide adjusting-----	1
31	1968 396	SCREW, pole shoe-----	1
32	1968 998	SCREW, brush lead attach.-----	1
33	1968 998	SCREW, field coil lead to brush holder attach.-----	1
34	1847 807	SCREW, (and LOCKWASHER), brush plate attach.-----	1
35	1914 869	SCREW, C.E. frame attach.-----	1
36	1914 869	SCREW, lever housing attach.-----	1
37	1948 536	SCREW, drive housing attach.-----	1
38	1948 537	SCREW, drive housing attach.-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued
(Delco-Remy)
(DT-466B for TD-15C and 175C)
(DT-466C for TD-15C and 175C)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-9295

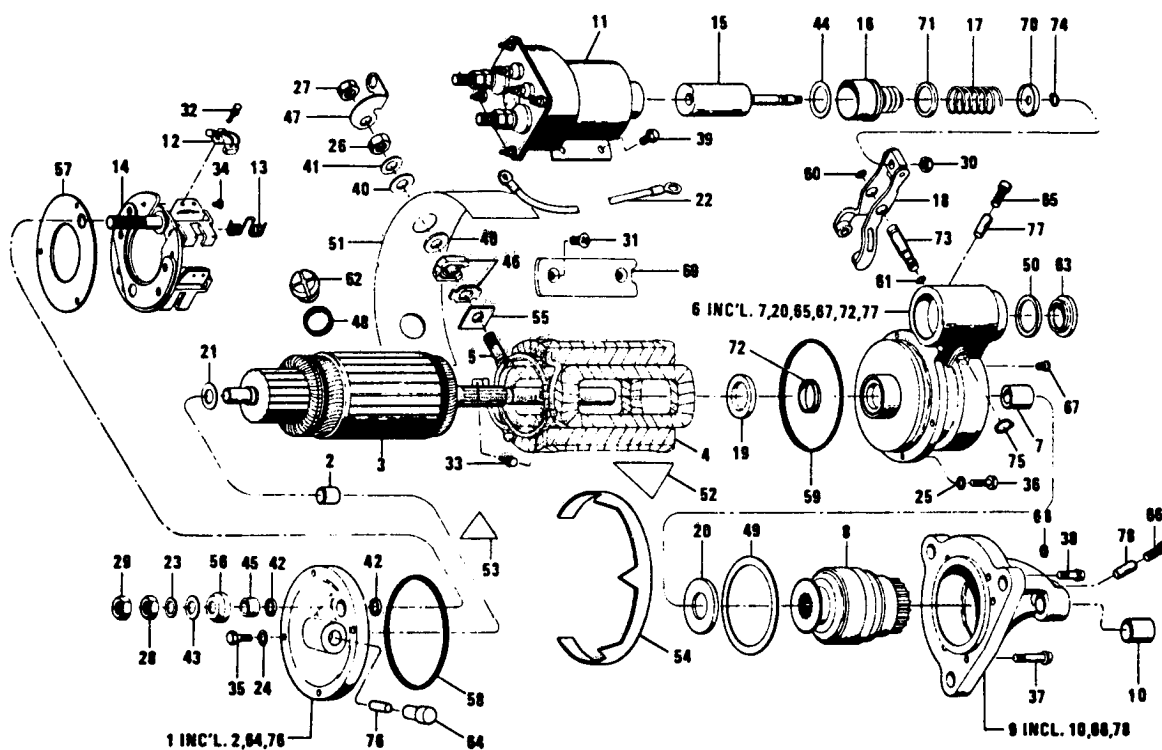
ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-466B for TD-15C and 175C)			
(DT-466C for TD-15C and 175C)			
39	1930 611	SCREW (and LOCKWASHER), switch attach.-----	1
40	1922 457	WASHER, insulated, field terminal stud-----	1
41	1914 647	WASHER, plain, field terminal stud-----	1
42	1861 791	WASHER, insulated, C.E. terminal stud-----	1
43	1914 647	WASHER, plain, C.E. terminal stud-----	1
44	1948 519	WASHER, plunger spring retainer-----	1
45	1851 632	BUSHING (Package) C.E. terminal stud-----	1
46	1965 472	BUSHING (Package), field terminal stud-----	1
47	1945 468	CONNECTOR, field terminal to switch-----	1
48	1964 857	GASKET, C.E. inspection plug-----	1
49	1945 476	GASKET (between lever and drive housing)-----	1
50	1964 857	GASKET, lever housing inspect plug-----	1
51	1955 990	INSULATOR, field coil C.E.-----	1
52	1914 873	INSULATOR, field coil D.E.-----	1
53		NOT USED	
54		NOT USED	
55		NOT USED	
56	1851 632	INSULATOR (Package), terminal stud C.E.-----	1
57		NOT USED	
58	1916 272	"O" RING-----	1
59	1916 272	"O" RING-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued (Delco-Remy) (DT-466B for TD-15C and 175C) (DT-466C for TD-15C and 175C)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-9295

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-466B for TD-15C and 175C)			
(DT-466C for TD-15C and 175C)			
60	1894 643	"O" RING-----	1
61	1894 642	"O" RING-----	1
62	1945 356	PLUG, brush inspection-----	1
63	1945 356	PLUG, lever housing inspection-----	1
64	1978 756	PLUG, oil reservoir, C.E.-----	1
65	1978 756	PLUG, oil reservoir, lever housing-----	1
66	1978 756	PLUG, oil reservoir, D.E.-----	1
67	1964 402	PLUG, lever housing mount hole-----	1
68		NOT USED	
69	1934 478	POLE SHOE-----	1
70	1948 526	RETAINER, plunger spring-----	1
71	1948 520	RETAINER, plunger spring-----	1
72	1918 047	SEAL, oil, lever housing-----	1
73	1948 529	SHAFT, shift lever-----	1
74	9415 235	SNAP RING, plunger spring retainer-----	1
75	9415 235	SNAP RING, shift lever shaft-----	1
76	1972 977	WICK, oil-----	1
77	1978 754	WICK, oil lever housing-----	1
78	1978 754	WICK, oil-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

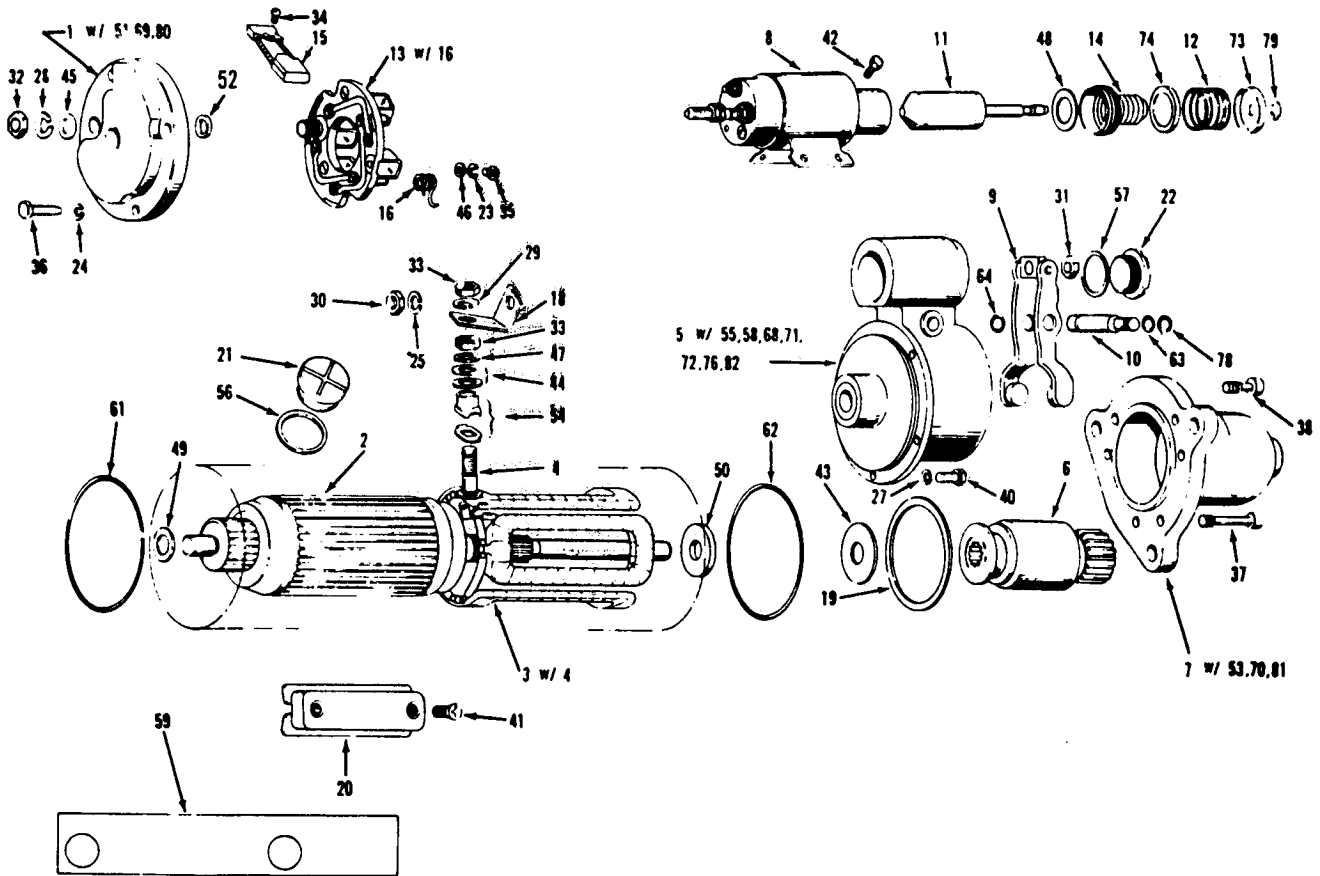
ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR			
(Delco-Remy)			
(DT-414 for E-200)			
(DT-466 for TD-15C and 175C)			
(DT-466B for TD-15C and 175C)			
PARTS WITHOUT LETTERS AFTER THE DESCRIPTION INDICATES THE PART IS USED FOR BOTH ASSEMBLIES LISTED BELOW.			
A	1113 386	MOTOR ASSY, cranking (E-200) (Order 1113 544)-----	1
B	1114 740	MOTOR ASSY, cranking (TD-15C and 175C)----- (Order 1114 860)	1
	27 604 R1	SCREW, 1/2 x 1-1/2" hex-hd cap-----	3
	26 273 R1	WASHER, hardened-----	3
Consists of:			
1	1971 855	FRAME (A)-----	1
1	1951 073	FRAME (B)-----	1
2	1967 044	ARMATURE (A)-----	1
2	1945 500	ARMATURE (B)-----	1
3	1846 926	FIELD COIL ASSY (A)-----	1
3	1945 496	FIELD COIL ASSY (B)-----	1
4	1950 561	STUD, terminal-----	1
5	1947 262	HOUSING, lever-----	1
6	1894 213	DRIVE ASSY, motor-----	1
7	1967 454	HOUSING, drive (A)-----	1
7	1946 575	HOUSING, drive (B)-----	1
8	1119 848	SWITCH ASSY, solenoid (A)-----	1
8	1119 878	SWITCH ASSY, solenoid (B)----- (Refer to "SOLENOID SWITCH")	1
9	1945 484	LEVER, shift-----	1
10	1948 529	SHAFT, lever-----	1
11	1948 522	PLUNGER-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued
(Delco-Remy)
(DT-414 for E-200)
(DT-466 for TD-15C and 175C)
(DT-466B for TD-15C and 175C)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5661A

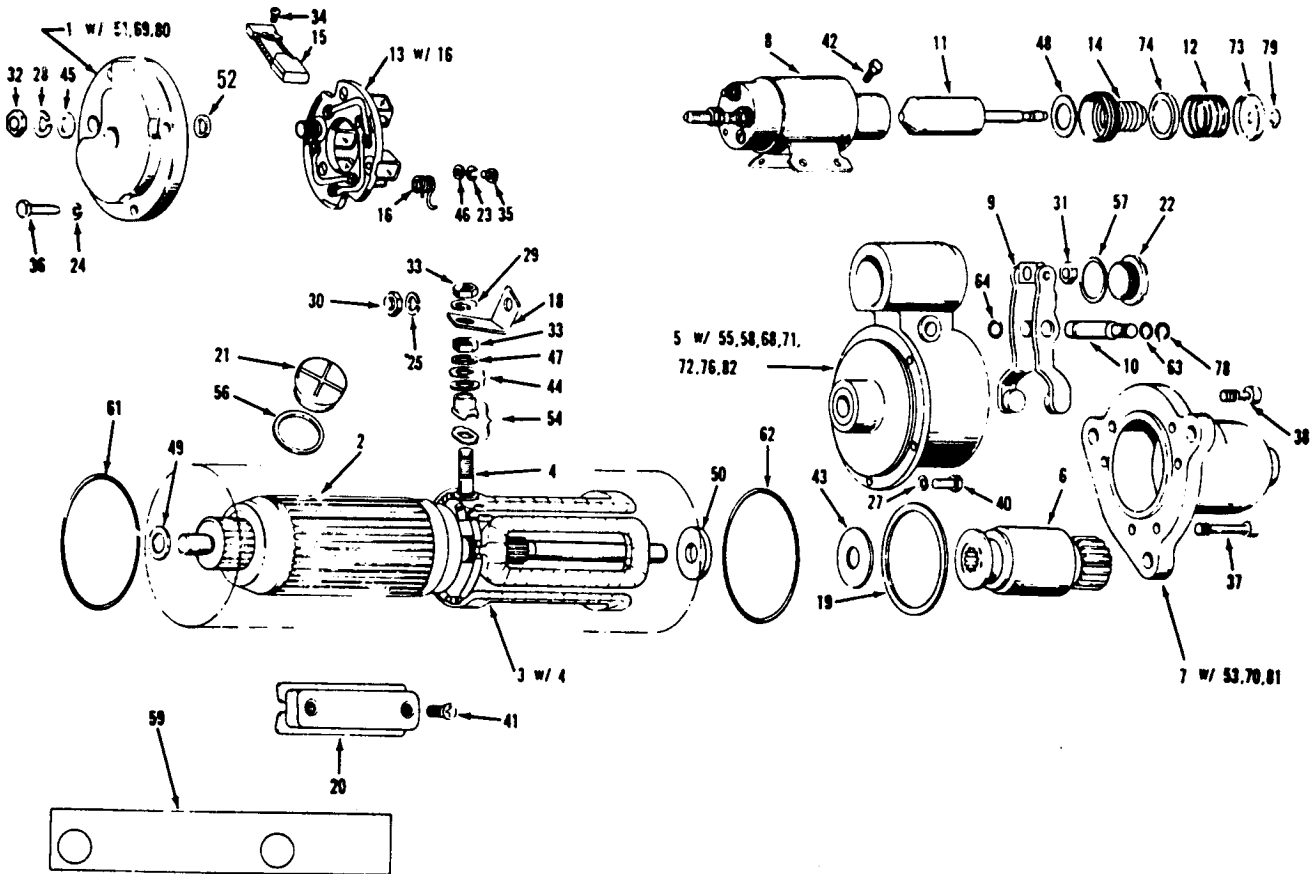
ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414 for E-200)			
(DT-466 for TD-15C and 175C)			
(DT-466B for TD-15C and 175C)			
12	1948 521	SPRING, shift lever-----	1
13	1971 845	BRUSH PLATE (A)-----	1
13	1948 515	BRUSH PLATE (B)-----	1
14	801 077	BOOT, plunger-----	1
15	1906 986	BRUSH-----	1
16	1971 846	SPRING, brush (A)-----	1
16	1861 785	SPRING, brush (B)-----	1
18	1945 468	CONNECTOR-----	1
19	1945 476	GASKET-----	1
20	1934 478	POLE SHOE-----	1
21	1945 356	PLUG, brush inspect-----	1
22	1945 356	PLUG, lever inspect-----	1
23	453 844	WASHER, lock, brush plate attach. screw-----	1
24	9421 423	WASHER, lock, CE frame attaching screw-----	1
27	9421 423	WASHER, lock, lever housing attaching screw-----	1
28	9421 425	WASHER, lock, terminal stud CE (A)-----	1
28	9421 427	WASHER, lock, terminal stud CE (B)-----	1
29	9421 427	WASHER, lock, terminal stud field (A)-----	1
29	9427 427	WASHER, lock, terminal stud field (B)-----	1
31	9412 305	NUT, plunger rod guide adjusting-----	1
32	9415 318	NUT, terminal stud CE-----	1
33	9414 418	NUT, terminal stud field-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued
(Delco-Remy)
(DT-414 for E-200)
(DT-466 for TD-15C and 175C)
(DT-466B for TD-15C and 175C)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5661A

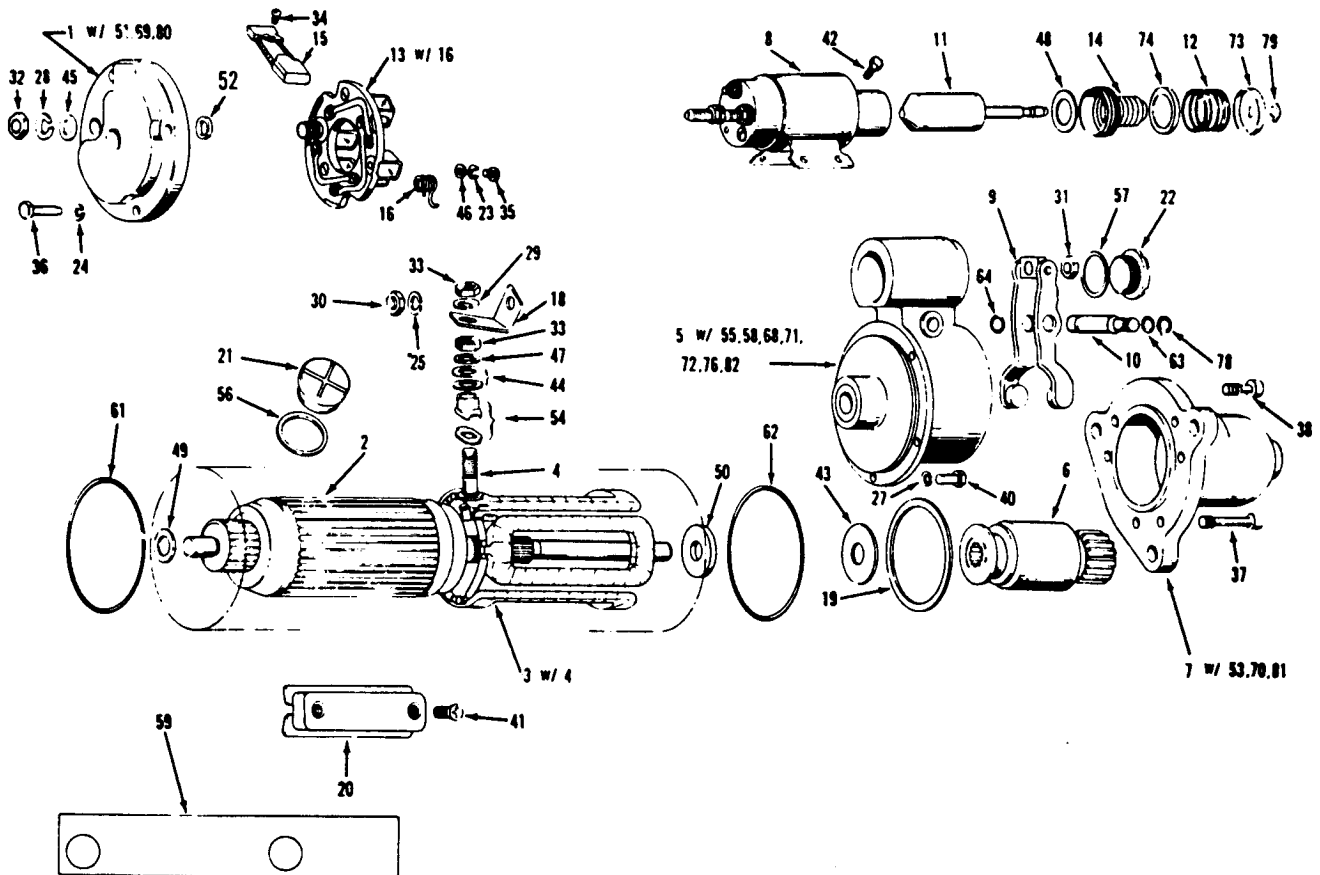
ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414 for E-200)			
(DT-466 for TD-15C and 175C)			
(DT-466B for TD-15C and 175C)			
34	453 418	SCREW, brush attach.-----	1
35	9429 621	SCREW, brush plate attach. (A)-----	1
35	1847 807	SCREW, brush plate attach. (B)-----	1
36	1914 869	SCREW, CE frame attach.-----	1
37	1948 536	SCREW, drive housing attach. (1-1/2")-----	1
38	1948 537	SCREW, drive housing attach. (55/64")-----	1
40	1914 869	SCREW, lever housing attach. (B)-----	1
41	1964 294	SCREW (and WASHER) pole shoe attach. (A)-----	1
41	1968 396	SCREW (and WASHER) pole shoe attach. (B)-----	1
42	1930 611	SCREW (and WASHER) switch attach.-----	1
43	1911 644	WASHER-BRAKE, between lever housing and drive-----	1
44	1922 457	WASHER, insul. field terminal stud-----	1
45	805 790	WASHER, plain CE terminal stud (A)-----	1
45	1914 647	WASHER, plain CE terminal stud (B)-----	1
46	1913 086	WASHER, plain brush plate attach screw (A)-----	1
47	1914 647	WASHER, plain field terminal stud-----	1
48	1948 519	WASHER, plunger boot-----	1
49	1914 842	WASHER, space CE-----	1
50	1946 943	WASHER, space between armature and lever housing (A)-	1
50	1936 466	WASHER, space between armature and lever housing (B)-	1
51	800 139	BUSHING, CE frame (A)-----	1
52	1950 064	BUSHING, terminal stud (A)-----	1
52	1851 632	BUSHING, terminal stud (B)-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued (Delco-Remy) (DT-414 for E-200) (DT-466 for TD-15C and 175C) (DT-466B for TD-15C and 175C)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5661A

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414 for E-200)			
(DT-466 for TD-15C and 175C)			
(DT-466B for TD-15C and 175C)			
53	1945 509	BUSHING, drive housing-----	1
54	1965 472	BUSHING, (Package) field terminal stud-----	1
55	1923 484	BUSHING, lever housing-----	1
56	1964 857	GASKET, inspection plug CE-----	1
57	1964 857	GASKET, inspection plug - lever housing-----	1
58	1933 111	GASKET, lever housing reservoir-----	1
59	1971 857	INSULATOR - field coil (A)-----	1
	1914 873	INSULATOR - field coil-----	1
59	1955 990	INSULATOR - field coil (B)-----	1
61	1916 272	"O" RING, CE-----	1
62	1916 272	"O" RING, DE-----	1
63	1921 805	"O" RING, shift lever (1/2" OD)-----	1
64	1914 373	"O" RING, shift lever (15/64" OD)-----	1
66	9417 501	PLUG, expansion lever housing reservoir-----	1
69	9427 882	PLUG, pipe CE-----	1
70	9427 882	PLUG, pipe DE-----	1
71	9427 882	PLUG, pipe lever housing-----	1
72	1955 303	PLUG, felt lever housing reservoir-----	1
74	1948 520	RETAINER, plunger spring (1-13/64" hole)-----	1
76	1918 047	SEAL, oil lever housing-----	1
78	9415 235	SNAP RING, lever shaft retainer-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued (Delco-Remy) (DT-414 for E-200) (DT-466 for TD-15C and 175C) (DT-466B for TD-15C and 175C)			
79	9415 235	SNAP RING, plunger spring retainer-----	1
80	1916 439	WICK, CE frame-----	1
81	1916 439	WICK, drive housing-----	1
82	1916 439	WICK, lever housing-----	1
	1950 064	BUSHING, CE terminal stud (A)-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR

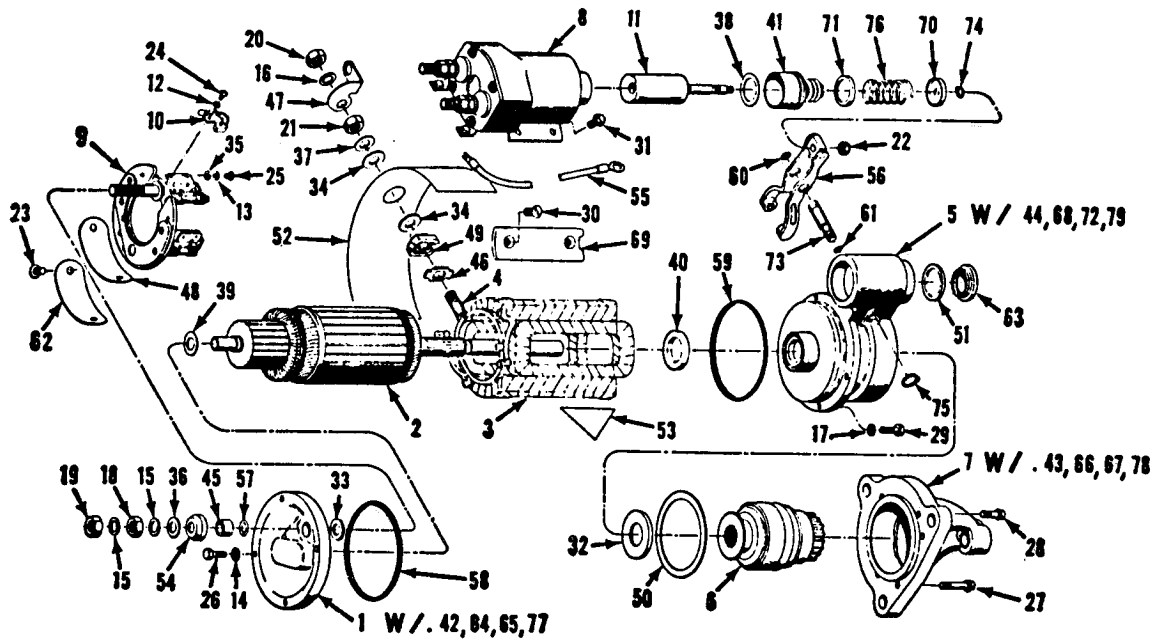
(Delco-Remy)

(DT-414 for H-65C and 530)

(DT-414B for 530)

(DT-466 for H-80B and 412)

(DT-466B for H-80B, 412, 412B and 540)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5660

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR			
(Delco-Remy)			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B and 412)			
(DT-466B for H-80B, 412, 412B and 540)			
	1113 840	MOTOR ASSY, cranking (Order 1114 910)-----	1
	27 406 R1	SCREW, hex-hd cap-----	3
	26 273 R1	WASHER, hardened-----	3
Consists of:			
1	1951 073	FRAME ASSY, commutator end-----	1
Consists of:			
	38 273	BUSHING-----	1
	103 893	PLUG-----	1
	9427 882	PLUG-----	1
	1916 439	WICK-----	1
2	1945 500	ARMATURE-----	1
3	1945 496	COIL, field (4 coils)-----	1
4	1950 561	STUD, terminal-----	1
5	1947 262	HOUSING ASSY, lever-----	1
Consists of:			
	1923 484	BUSHING-----	1
	9427 882	PLUG-----	1
	1918 047	SEAL-----	1
	1916 439	WICK-----	1
6	1894 213	DRIVE ASSY, motor-----	1
7	1946 575	HOUSING ASSY, drive end-----	1
Consists of:			
	1923 484	BUSHING-----	1
	9427 882	PLUG-----	1
	1961 573	PLUG-----	1
	1916 439	WICK-----	1
8	1119 848	SWITCH ASSY, solenoid (Refer to "SOLENOID SWITCH")---	1
9	1948 515	PLATE-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B and 412)			
(DT-466B for H-80B, 412, 412B and 540)			
10	1906 986	BRUSH-----	8
11	1948 522	PLUNGER-----	1
12	453 844	LOCKWASHER, brush lead attaching screw-----	8
13	453 844	LOCKWASHER, brush plate assy-----	3
14	9421 423	LOCKWASHER, commutator end frame attaching screw-----	4
15	9421 427	LOCKWASHER, CE terminal stud-----	1
16	9421 427	LOCKWASHER, field terminal stud-----	1
17	9421 423	LOCKWASHER, lever housing attaching screw-----	1
18	120 238	NUT, CE terminal stud-----	1
19	120 378	NUT, CE terminal stud-----	1
20	120 238	NUT, field terminal stud-----	1
21	120 238	NUT, field terminal stud-----	1
22	9412 305	NUT, plunger rod guide adjusting-----	1
23	9414 397	SCREW, brush cover plate attaching-----	1
24	453 418	SCREW, brush lead attaching-----	1
25	1847 807	SCREW, brush plate assy attaching-----	1
26	1914 869	SCREW, CE frame attaching-----	1
27	1948 536	SCREW, drive housing attaching-----	1
28	1948 537	SCREW, drive housing attaching-----	1
29	1914 869	SCREW, lever housing attaching-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued

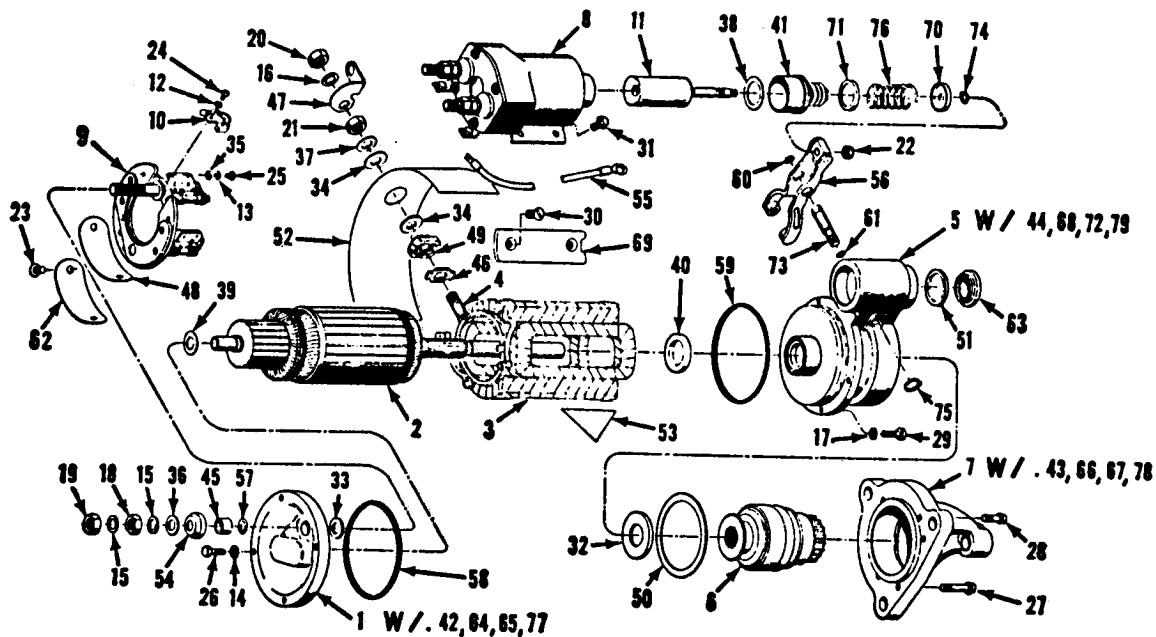
(Delco-Remy)

(DT-414 for H-65C and 530)

(DT-414B for 530)

(DT-466 for H-80B and 412)

(DT-466B for H-80B, 412, 412B and 540)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5660

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B and 412)			
(DT-466B for H-80B, 412, 412B and 540)			
30	1968 396	SCREW, pole shoe-----	1
31	1930 611	SCREW, switch attaching-----	1
32	1911 644	WASHER, brake between lever housing and drive-----	1
33	1861 791	WASHER, CE terminal stud-----	1
34	1922 457	WASHER, field terminal stud-----	1
35	1913 086	WASHER, brush plate assembly attaching screw-----	1
36	1914 647	WASHER, CE terminal stud-----	1
37	1914 647	WASHER, field terminal stud-----	1
38	807 736	WASHER, shift lever return spring retainer-----	1
39	1914 842	WASHER, space CE-----	1
40	1936 466	WASHER, space between armature and lever housing-----	1
41	801 077	BOOT, plunger-----	1
42	38 273	BUSHING, CE frame-----	1
43	1945 509	BUSHING, drive housing-----	1
44	1923 484	BUSHING, lever housing-----	1
45		BUSHING, insulator commutator end terminal stud----- (Order PACKAGE, 1851 632)	1
46		BUSHING, insulator field terminal stud----- (Order PACKAGE, 1965 472)	1
47	1945 468	CONNECTOR, terminal to switch-----	1
48	1948 512	GASKET, brush cover plate-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued

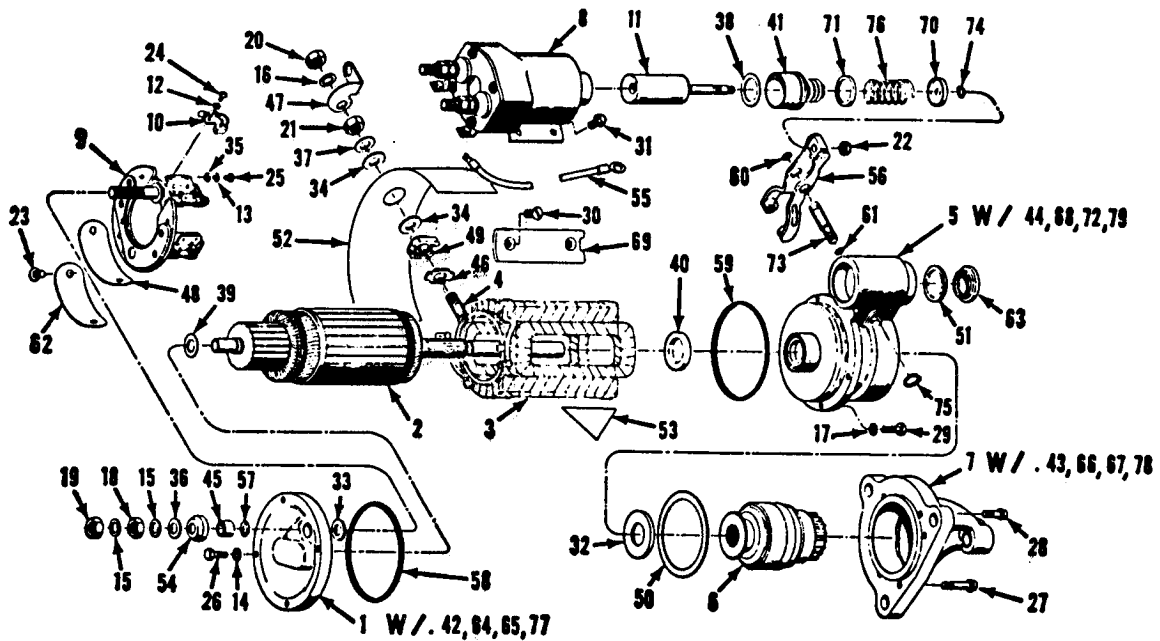
(Delco-Remy)

(DT-414 for H-65C and 530)

(DT-414B for 530)

(DT-466 for H-80B and 412)

(DT-466B for H-80B, 412, 412B and 540)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5660

ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B and 412)			
(DT-466B for H-80B, 412, 412B and 540)			
49		GASKET, field terminal stud-----	1
50	1945 476	GASKET, between lever housing and drive housing-----	1
51	1964 857	GASKET, lever housing plug-----	1
52	1955 990	INSULATOR, field coil - drive end-----	1
53	1914 873	INSULATOR, field coil - drive end-----	1
54		INSULATOR, terminal stud----- (Order PACKAGE, 1851 632)	1
55	1953 236	LEAD and TERMINALS, CE terminal to switch-----	1
56	1945 484	LEVER, shift-----	1
57		"O" RING, CE terminal stud----- (Order PACKAGE, 1851 632)	1
58	1916 272	"O" RING, field frame seal, CE-----	1
59	1916 272	"O" RING, field frame seal, DE-----	1
61	1921 805	"O" RING, shift lever-----	1
62	1914 373	"O" RING, shift lever-----	1
63	1945 356	PLUG, lever housing-----	1
64	103 893	PLUG, expansion, CE-----	1
65	9427 882	PLUG, pipe, CE-----	1
66	9427 882	PLUG, pipe, DE-----	1
67	1961 573	PLUG, pipe, DE housing-----	1
68	9427 882	PLUG, pipe lever housing-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

CRANKING MOTOR - Continued

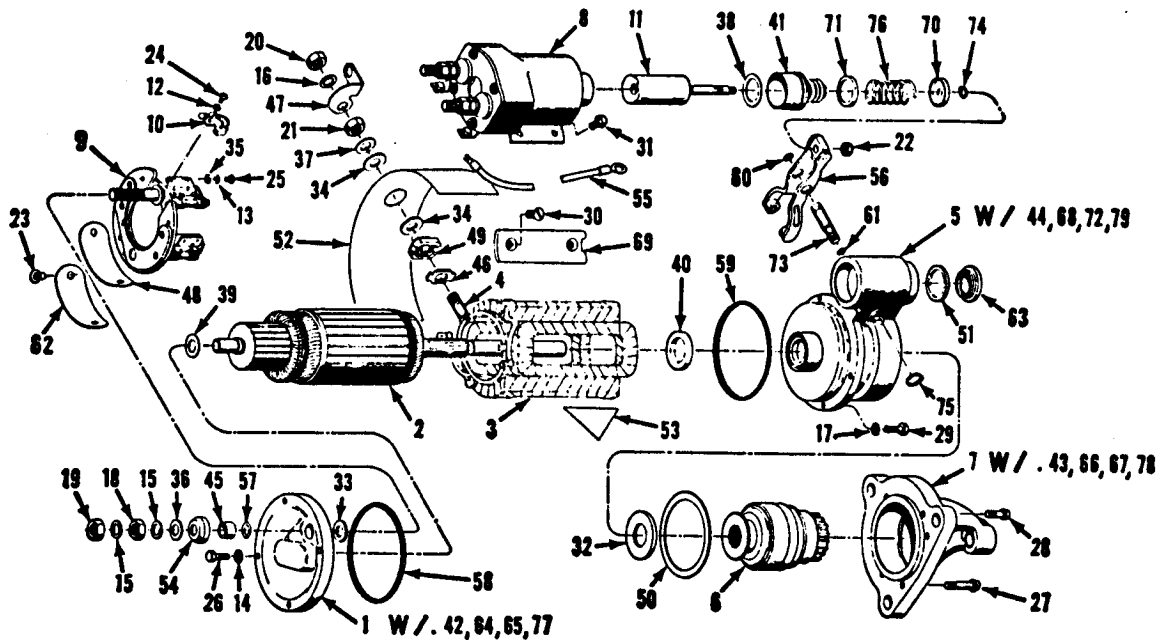
(Delco-Remy)

(DT-414 for H-65C and 530)

(DT-414B for 530)

(DT-466 for H-80B and 412)

(DT-466B for H-80B, 412, 412B and 540)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-5660

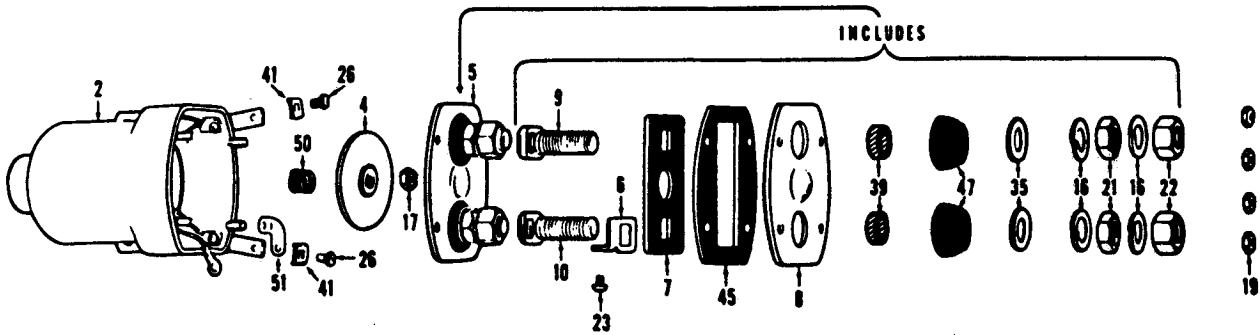
ELECTRICAL

Ref No	Part Number	Description	Quantity
CRANKING MOTOR - Continued			
(Delco-Remy)			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B and 412)			
(DT-466B for H-80B, 412, 412B and 540)			
69	1934 478	POLE SHOE-----	1
70	1948 526	RETAINER, shift lever spring-----	1
71	1948 520	RETAINER, shift lever spring-----	1
72	1918 047	SEAL, oil lever housing-----	1
73	1948 529	SHAFT, shift lever-----	1
74	9415 235	SNAP, ring shift lever return spring-----	1
75	9415 235	SNAP, ring lever shaft retainer-----	1
76	1948 521	SPRING, shift lever return-----	1
77	1916 439	WICK, oil CE-----	1
78	1916 439	WICK, oil drive housing-----	1
79	1916 439	WICK, oil lever housing-----	1
	1851 632	PACKAGE, insulator terminal-----	1
	1965 472	PACKAGE, insulator field terminal stud-----	1
	9417 501	PLUG, expansion commutator end reservoir-----	1

ALWAYS GIVE CRANKING MOTOR ASSY NUMBER WHEN ORDERING PARTS

ELECTRICAL

SOLENOID SWITCH (Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

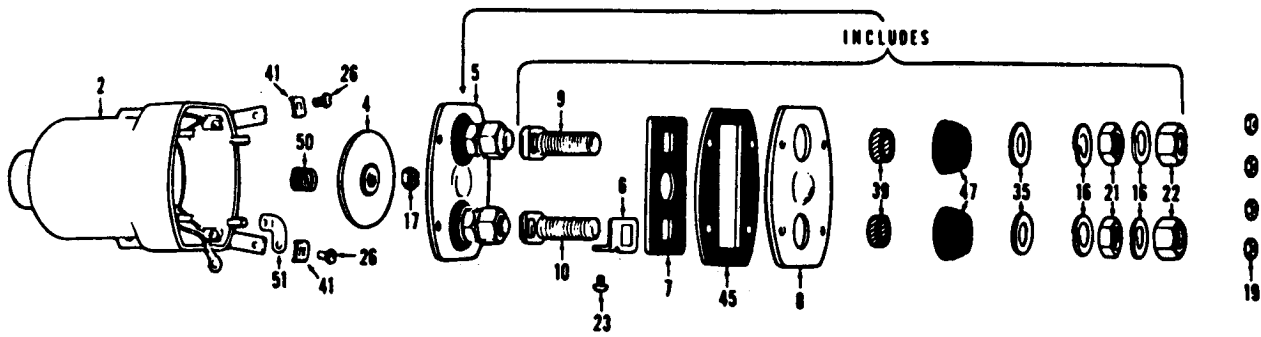
CG-5663

ELECTRICAL

Ref No	Part Number	Description	Quantity
SOLENOID SWITCH (Delco-Remy)			
PARTS WITHOUT LETTERS AFTER THE DESCRIPTION INDICATES THE PART IS USED FOR BOTH ASSEMBLIES LISTED BELOW.			
A	1119 848	SWITCH ASSY, solenoid----- (Part of CRANKING MOTOR ASSY, 1113 840)	1
B	1119 878	SWITCH ASSY, solenoid----- (Part of CRANKING MOTOR ASSY, 1114 740)	1
Consists of:			
2	1969 196	CASE and COIL (A)-----	1
2	1954 510	CASE and COIL (B)-----	1
4	1954 861	DISC, contact-----	1
5	1953 242	PLATE, terminal-----	1
6	1915 716	SUPPORT, lead (A)-----	1
6	1906 051	SUPPORT, lead (B)-----	1
7	1931 673	INSULATOR-----	1
8	1948 659	PLATE, terminal (A)-----	1
8	1945 409	PLATE, terminal (B)-----	1
9	1953 244	STUD, bat terminal (A)-----	1
9	1906 047	STUD, bat terminal (B)-----	1
10	1906 047	STUD, motor terminal (A)-----	1
10	1906 049	STUD, motor terminal (B)-----	1
16	9421 427	WASHER, lock, terminal stud-----	1
17	1907 300	NUT, contact attaching (A)-----	1
19	1948 656	NUT, terminal plate attaching-----	1
21	9414 418	NUT, terminal-----	1
22	9413 509	NUT, terminal-----	1

ELECTRICAL

SOLENOID SWITCH - Continued (Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

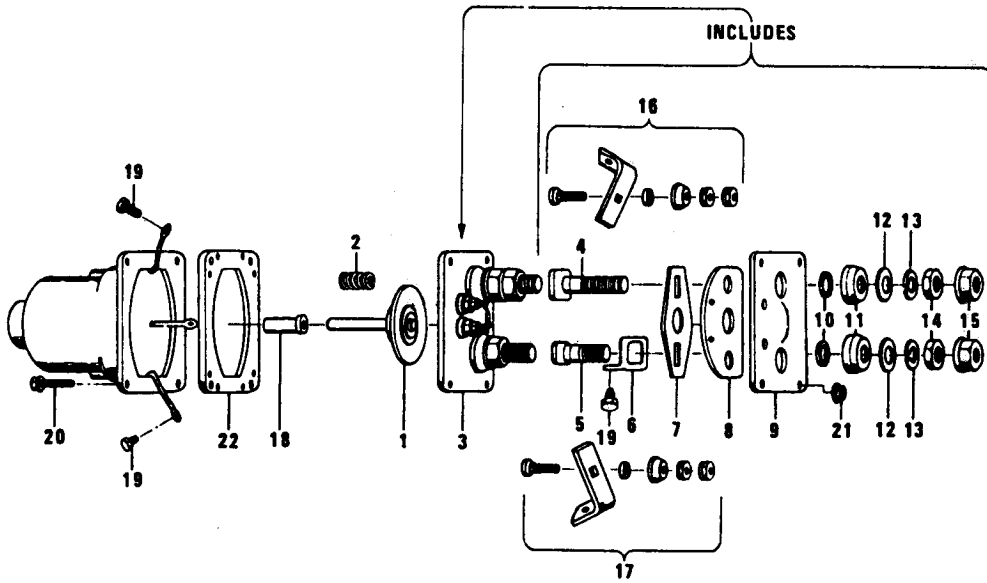
CG-5663

ELECTRICAL

Ref No	Part Number	Description	Quantity
SOLENOID SWITCH - Continued (Delco-Remy)			
23	1840 633	SCREW, coil lead attaching-----	1
26	1915 717	SCREW, terminal-----	1
35	1914 647	WASHER, plain terminal-----	1
39	1942 969	BUSHING, terminal stud insulator (A)-----	1
39	1944 836	BUSHING, terminal stud insulator (B)-----	1
41	1915 718	CLAMP, terminal (A)-----	1
41	1878 503	CLAMP, terminal (B)-----	1
45	1950 111	GASKET, terminal plate-----	1
47	1944 841	INSULATOR, terminal stud (A)-----	1
50	1948 661	SPRING, contact return (A)-----	1
50	1945 402	SPRING, contact return (B)-----	1
51	1924 970	STRAP, ground (A)-----	1
51	1907 658	STRAP, ground (B)-----	1

ELECTRICAL

SOLENOID SWITCH
(Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

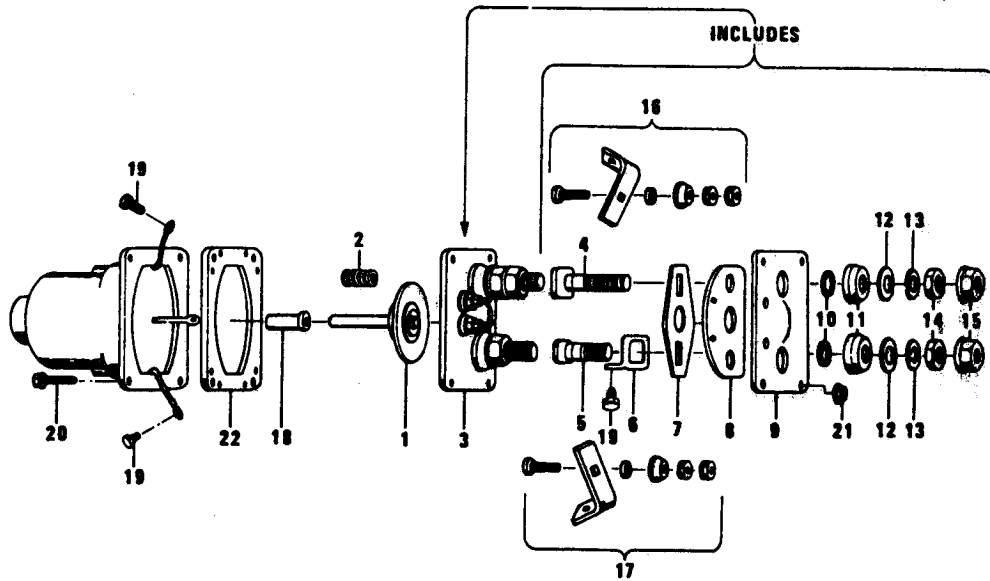
CG-9296

ELECTRICAL

Ref No	Part Number	Description	Quantity
SOLENOID SWITCH (Delco-Remy)			
PARTS WITHOUT LETTERS AFTER THE DESCRIPTION INDICATES THE PART IS USED FOR BOTH ASSEMBLIES LISTED BELOW.			
A	1115 558	SWITCH ASSY, solenoid----- (Part of CRANKING MOTOR ASSY, 1114 860)	1
B	1115 559	SWITCH ASSY, solenoid----- (Part of CRANKING MOTOR ASSY, 1114 858)	1
Consists of:			
1	1977 264	CONTACT ASSY-----	1
2	1945 402	SPRING, contact return-----	1
3	1979 459	TERMINAL and PLATE ASSY (A)-----	1
3	1979 498	TERMINAL and PLATE ASSY (B)-----	1
4	1953 244	STUD, battery terminal-----	1
5	1906 049	STUD, motor terminal-----	1
6	1906 051	SUPPORT, terminal (A)-----	1
6	1979 370	SUPPORT, terminal (B)-----	1
7	1979 369	INSULATOR-----	1
8	1979 368	INSULATOR-----	1
9	1979 460	PLATE, terminal (A)-----	1
9	1979 499	PLATE, terminal (B)-----	1
10	1942 969	BUSHING, terminal stud insulator-----	1
11	1942 969	INSULATOR (A)-----	1
11	1851 632	INSULATOR (B)-----	1
12	1914 647	WASHER, plain terminal stud-----	1
13	9421 427	WASHER, lock, terminal stud-----	1
14	9414 418	NUT, terminal stud-----	1

ELECTRICAL

SOLENOID SWITCH - Continued
(Delco-Remy)



ILLUSTRATIONS ARE OF TYPICAL PARTS ONLY

CG-9296

ELECTRICAL

Ref No	Part Number	Description	Quantity
SOLENOID SWITCH - Continued (Delco-Remy)			
15	1979 451	NUT ASSY, terminal stud-----	1
16	1979 776	TERMINAL PACKAGE, switch-----	1
17	1979 776	TERMINAL PACKAGE, ground-----	1
18	1972 716	BUSHING, plunger rod-----	1
19	1840 633	SCREW, coil lead attachment-----	1
20	1979 385	SCREW, terminal plate attachment-----	1
21	1979 365	NUT, terminal plate attachment-----	1
22	1979 384	GASKET, terminal plate-----	1

ELECTRICAL

MEMORANDA

ENGINE MOUNTING

FLYWHEEL HOUSING AND FRONT ENGINE MOUNT

(DT-414 for H-65C, 530 and E-200)

(DT-466 for H-80B, 412, 433, 444,

TD-15C Power Shift and 175C)

(DT-414B for 530)

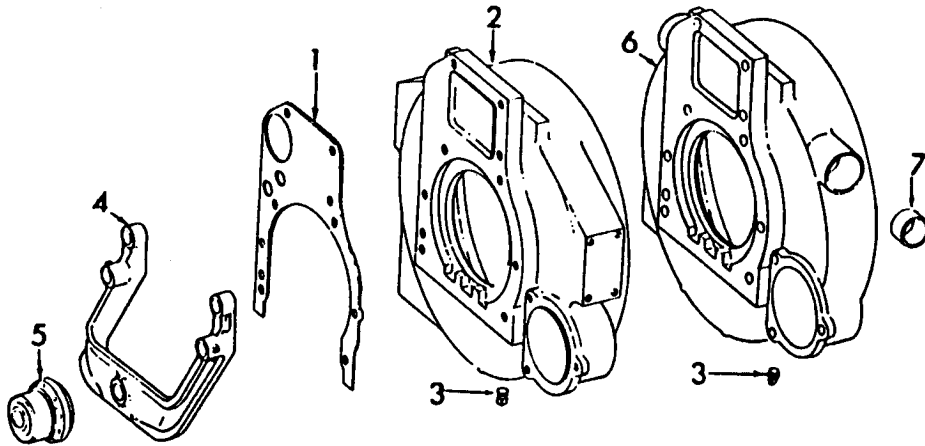
(D-466 for TD-12)

(DT-466B for H-80B, 412, 412B, 433B, 444B,

TD-15C Power Shift, 175C, 540 and TD-12)

(DT-466C for TD-15C, 175C and 530)

(DTI-466C for 540)



CG-5664

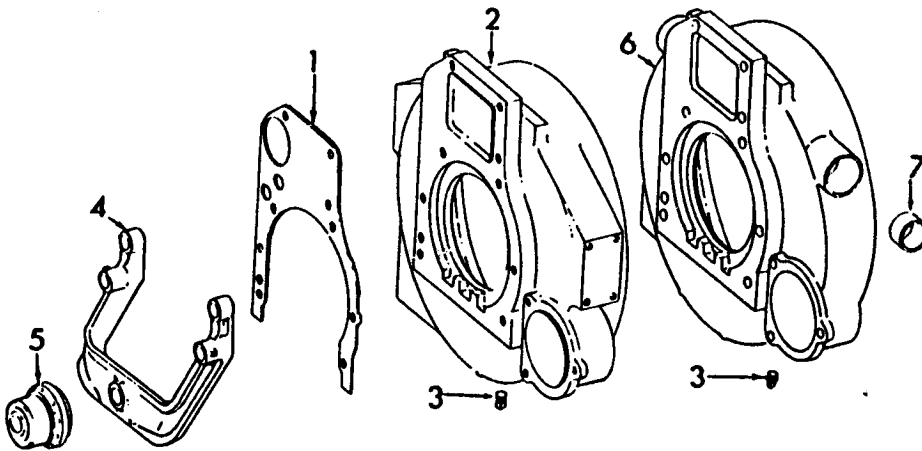
ENGINE MOUNTING

Ref No	Part Number	Description	Quantity
FLYWHEEL HOUSING AND FRONT ENGINE MOUNT			
(DT-414 for H-65C, 530 and E-200)			
(DT-466 for H-80B, 412, 433, 444, TD-15C Power Shift and 175C)			
(DT-414B for 530)			
(D-466 for TD-12)			
(DT-466B for H-80B, 412, 412B, 433B, 444B, TD-15C Power Shift, 175C, 540 and TD-12)			
(DT-466C for TD-15C, 175C and 530)			
(DTI-466C for 540)			
1	682 945 C1	GASKET, flywheel housing-----	1
2		(See Individual Engine Variation)	
3		(See Individual Engine Variation)	
4		(See Individual Engine Variation)	
5	672 805 C91	BUSHING, front support-----	1
6		(See Individual Engine Variation)	
7		(See Individual Engine Variation)	
<u>ENGINE VARIATIONS</u>			
<u>(DT-466B for H-80B)</u>			
<u>(DT-414 for H-65C and DT-466 for H-80B)</u>			
2	672 220 C3	HOUSING, flywheel-----	1
	24 864 R1	SCREW, hex-hd cap-----	8
	26 273 R1	WASHER, hardened-----	8
3	445 090	PLUG, pipe-----	1
	713 532 R1	GASKET, plug-----	1
4	673 365 C91	BRACKET w/BUSHING, 672 805 C91, front support-----	1
	25 510 R1	SCREW, 3-3/4" hex-hd cap-----	2
	24 876 R1	SCREW, 2-1/4" hex-hd cap-----	2
	32 455 D	WASHER, hardened-----	4
<u>(DT-414 for E-200)</u>			
2	673 484 C1	HOUSING, flywheel-----	1
	24 864 R1	SCREW, hex-hd cap-----	8
	26 273 R1	WASHER, hardened-----	8
4	673 365 C91	BRACKET w/BUSHING, 672 805 C91, front support-----	1
	25 510 R1	SCREW, 3-3/4" hex-hd cap-----	2
	24 876 R1	SCREW, 2-1/4" hex-hd cap-----	2
	32 455 D	WASHER, hardened-----	4

ENGINE MOUNTING

FLYWHEEL HOUSING AND FRONT ENGINE MOUNT - Continued

(DT-414 for H-65C, 530 and E-200)
(DT-466 for H-80B, 412, 433, 444,
TD-15C Power Shift and 175C)
(DT-414B for 530)
(D-466 for TD-12)
(DT-466B for H-80B, 412, 412B, 433B, 444B,
TD-15C Power Shift, 175C, 540 and TD-12)
(DT-466C for TD-15C, 175C and 530)
(DTI-466C for 540)



CG-5664

ENGINE MOUNTING

Ref No	Part Number	Description	Quantity
FLYWHEEL HOUSING AND FRONT ENGINE MOUNT - Continued			
(DT-414 for H-65C, 530 and E-200)			
(DT-466 for H-80B, 412, 433, 444, TD-15C Power Shift and 175C)			
(DT-414B for 530)			
(D-466 for TD-12)			
(DT-466B for H-80B, 412, 412B, 433B, 444B, TD-15C Power Shift, 175C, 540 and TD-12)			
(DT-466C for TD-15C, 175C and 530)			
(DTI-466C for 540)			

ENGINE VARIATIONS - Continued

(DT-466 for 412)
(DT-466B for 412 and 412B)

2	673 484 C1	HOUSING, flywheel-----	1
	24 864 R1	SCREW, hex-hd cap-----	8
	26 273 R1	WASHER, hardened-----	8
4	673 365 C91	BRACKET w/BUSHING, 672 805 C91, front support-----	1
	25 510 R1	SCREW, 3-3/4" hex-hd cap-----	2
	24 876 R1	SCREW, 2-1/4" hex-hd cap-----	2
	32 455 D	WASHER, hardened-----	4

(DT-466 for 433 and 444)
(DT-466B for 433B and 444B)

2	672 220 C3	HOUSING, flywheel-----	1
	24 864 R1	SCREW, 2" hex-hd cap-----	6
	26 273 R1	WASHER, hardened-----	8
	21 114 R1	REDUCER-----	1
	OR		
	128 003	ADAPTER-----	1
	445 751	PLUG, 1/2" pipe-----	1
	445 090	PLUG, 3/4" hex-hd-----	1
	713 532 R1	GASKET, plug-----	1
3	20 969 R1	PLUG, pipe-----	1
4	673 365 C91	BRACKET w/BUSHING, 672 805 C91, front support-----	1
	25 510 R1	SCREW, 3-3/4" hex-hd cap-----	2
	24 876 R1	SCREW, 2-1/4" hex-hd cap-----	2
	32 455 D	WASHER, hardened-----	4

ENGINE MOUNTING

FLYWHEEL HOUSING AND FRONT ENGINE MOUNT - Continued

(DT-414 for H-65C, 530 and E-200)

(DT-466 for H-80B, 412, 433, 444,

TD-15C Power Shift and 175C)

(DT-414B for 530)

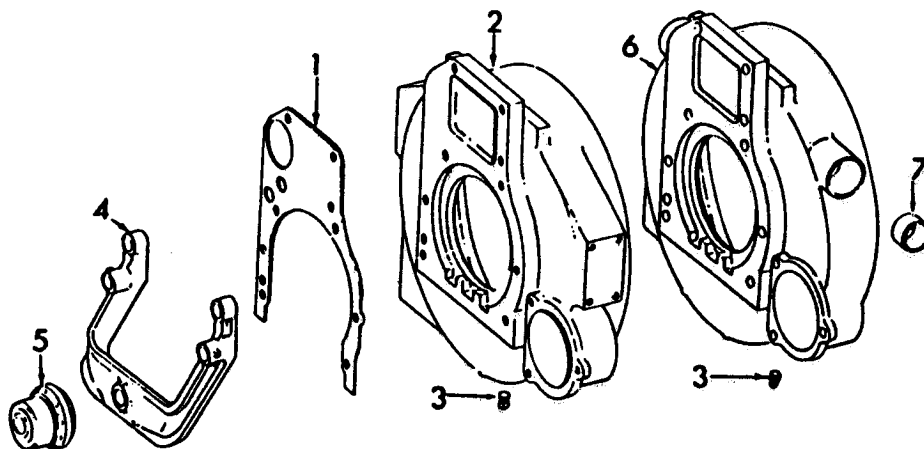
(D-466 for TD-12)

(DT-466B for H-80B, 412, 412B, 433B, 444B,

TD-15C Power Shift, 175C, 540 and TD-12)

(DT-466C for TD-15C, 175C and 530)

(DTI-466C for 540)



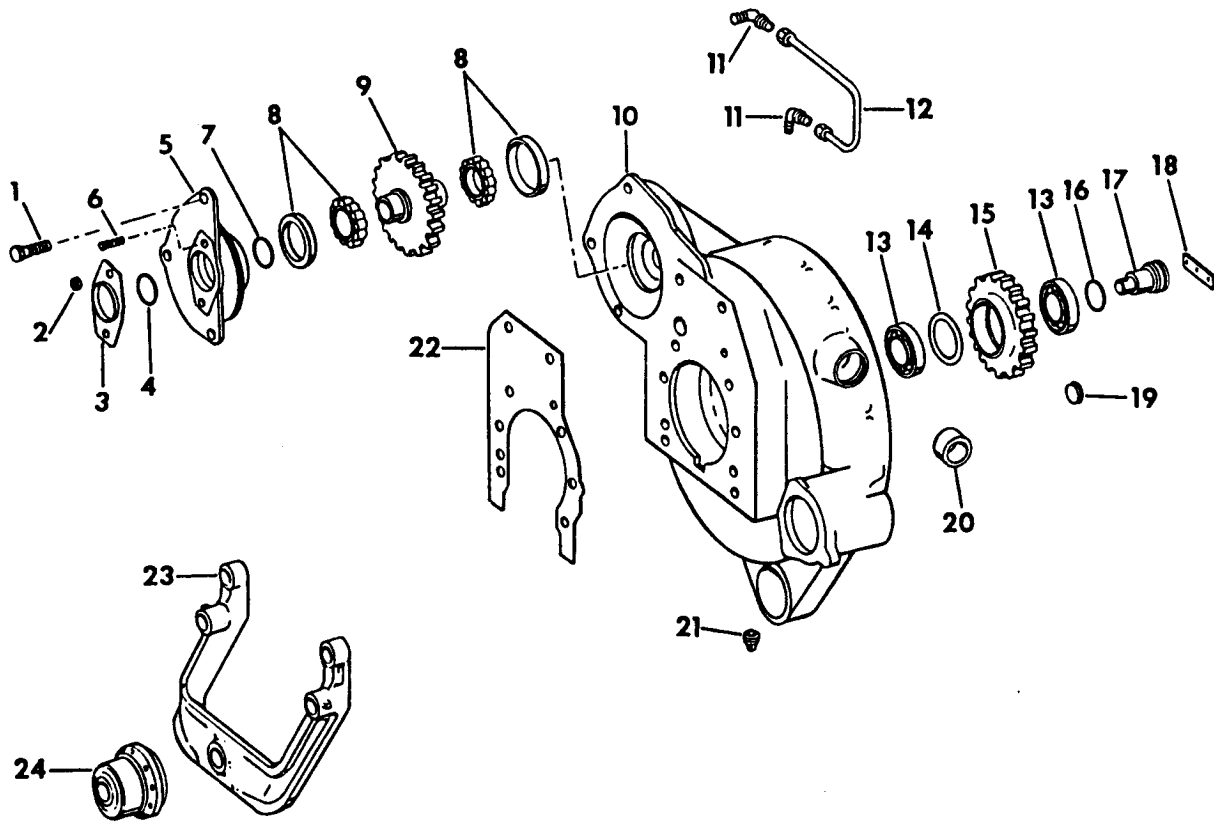
CG-5664

ENGINE MOUNTING

Ref No	Part Number	Description	Quantity
FLYWHEEL HOUSING AND FRONT ENGINE MOUNT - Continued			
(DT-414 for H-65C, 530 and E-200)			
(DT-466 for H-80B, 412, 433, 444, TD-15C Power Shift and 175C)			
(DT-414B for 530)			
(D-466 for TD-12)			
(DT-466B for H-80B, 412, 412B, 433B, 444B, TD-15C Power Shift, 175C, 540 and TD-12)			
(DT-466C for TD-15C, 175C and 530)			
(DTI-466C for 540)			
<u>ENGINE VARIATIONS - Continued</u>			
<u>(DT-466, DT-466B and DT-466C for TD-15C Power Shift and 175C)</u>			
3	20 969 R1	PLUG, pipe-----	1
4	673 365 C91	BRACKET w/BUSHING, 672 805 C91, front support-----	1
	25 510 R1	SCREW, 3-3/4" hex-hd cap-----	2
	24 876 R1	SCREW, 2-1/4" hex-hd cap-----	2
	32 455 D	WASHER, hardened-----	4
6	673 477 C91	HOUSING w/two BUSHINGS, 333 707 R92, flywheel-----	1 //60"
	24 864 R1	SCREW, hex-hd cap-----	8
	26 273 R1	WASHER, hardened-----	8
7	333 707 R92	BUSHING-----	2
<u>(DT-414, DT-414B and DT-466C for 530)</u>			
<u>(DT-466B and DTI-466C for 540)</u>			
2	672 220 C3	HOUSING, flywheel-----	1
	24 864 R1	SCREW, hex-hd cap-----	8
	26 273 R1	WASHER, hardened-----	8
3	445 090	PLUG, 3/4 pipe-----	1
	713 532 R1	GASKET, plug-----	1
4	688 251 C1	MOUNT, front support-----	1
	24 876 R1	SCREW, 2-1/4" hex-hd cap-----	2
	25 340 R1	SCREW, 3-1/4" hex-hd cap-----	2
	25 976 R1	WASHER, hardened-----	4
<u>(D-466 and DT-466B for TD-12)</u>			
3	21 502 R1	PLUG, pipe-----	1
4	673 365 C91	BRACKET w/BUSHING, 672 805 C91 front support-----	1
	25 510 R1	SCREW, 3-3/4" hex-hd cap-----	2
	24 876 R1	SCREW, 2-1/4" hex-hd cap-----	2
	32 455 D	WASHER, hardened-----	4
6	680 909 C91	HOUSING w/two BUSHING, 333 707 R92 flywheel-----	1
	26 273 R1	WASHER, 1/2" hardened-----	8
	24 864 R1	SCREW, 1/2" hex-hd cap-----	8
7	333 707 R92	BUSHING-----	2

ENGINE MOUNTING

FLYWHEEL HOUSING AND FRONT ENGINE MOUNT (DT-466 and DT-466B for TD-15C Manual Shift Custom)



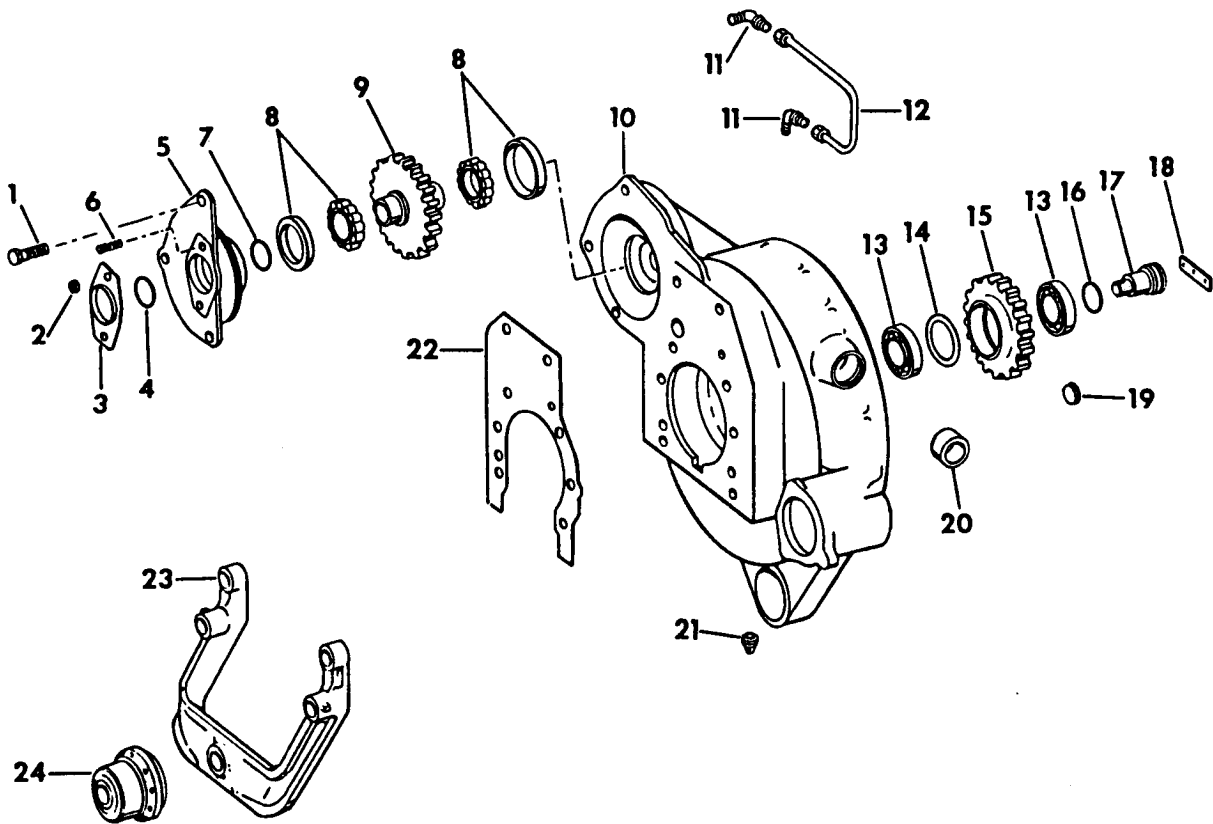
CG-5665

ENGINE MOUNTING

Ref No	Part Number	Description	Quantity
FLYWHEEL HOUSING AND FRONT ENGINE MOUNT			
(DT-466 and DT-466B for TD-15C Manual Shift Custom)			
1	24 872 R1	SCREW, hex-hd cap-----	3
2	214 442	NUT-----	2
	26 273 R1	WASHER, hardened-----	2
3	654 846 C1	COVER, equipment drive-----	1
4	468 339 R1	"O" RING-----	1
5	654 845 C1	FLANGE, equipment pump mounting-----	1
6	51 971 D	STUD-----	2
7	384 149 R1	"O" RING-----	1
8	272 478 R91	BEARING ASSY-----	2
9	654 843 C1	GEAR, equipment pump drive-----	1
10	654 837 C91	HOUSING w/two BUSHING, 333 707 R92 and PLUG, 9409 949	1
	24 861 R1	SCREW, 1-1/4" hex-hd cap (Type 8)-----	6
	24 867 R1	SCREW, 3-1/2" hex-hd cap (Type 8)-----	2
	26 273 R1	WASHER, hardened-----	8
11	322 296 C1	ELBOW, 90 degrees-----	2
12	673 835 C1	TUBE, oil idler gear-----	1
13	ST 204 A	BEARING, idler gear ball-----	2
14	512 889 R1	RING, retaining-----	1
15	654 840 C91	GEAR w/two BEARINGS, ST 204 A and RING, 512 889 R1, idler-----	1
16	360 610 R1	"O" RING, 1-5/8 x 1-7/8 x 1/8"-----	1
17	330 257 R2	SHAFT, idler gear-----	1
18	330 258 R1	PLATE, idler shaft lock-----	1
	26 309 R1	SCREW, hex-hd cap-----	3
19	337 091 R1	PLUG, flywheel housing core hole-----	1
20	333 707 R92	BUSHING-----	2

ENGINE MOUNTING

FLYWHEEL HOUSING AND FRONT ENGINE MOUNT - Continued (DT-466 and DT-466B for TD-15C Manual Shift Custom)



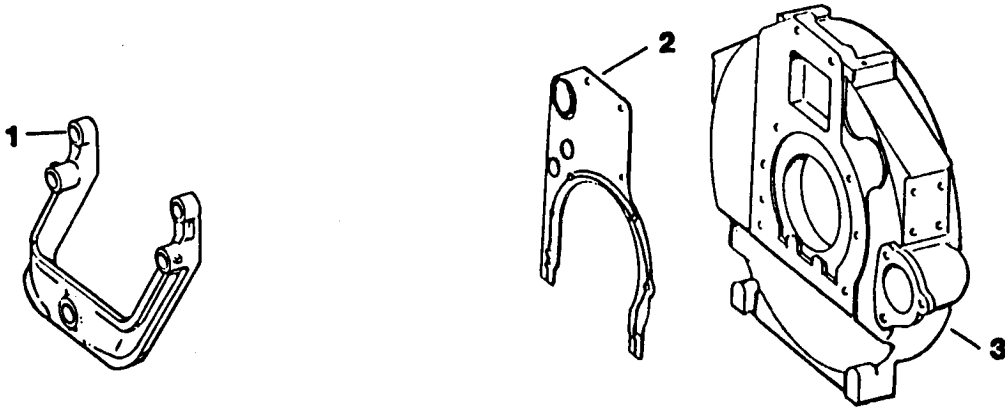
CG-5665

ENGINE MOUNTING

Ref No	Part Number	Description	Quantity
FLYWHEEL HOUSING AND FRONT ENGINE MOUNT - Continued (DT-466 and DT-466B for TD-15C Manual Shift Custom)			
21	9409 949	PLUG, 3/4" pipe-----	1
22	682 945 C1	GASKET, flywheel housing-----	1
23	673 365 C91	BRACKET w/BUSHING, 672 805 C91, and PIN, front support	1
	25 510 R1	SCREW, 3-3/4" hex-hd cap (Type 8)-----	2
	24 876 R1	SCREW, 2-1/4" hex-hd cap (Type 8)-----	2
	32 455 D	WASHER, hardened-----	4
24	672 805 C91	BUSHING w/HOUSING, front support-----	1

ENGINE MOUNTING

FLYWHEEL HOUSING AND FRONT ENGINE MOUNT (Galion Applications)



CG-5664A

ENGINE MOUNTING

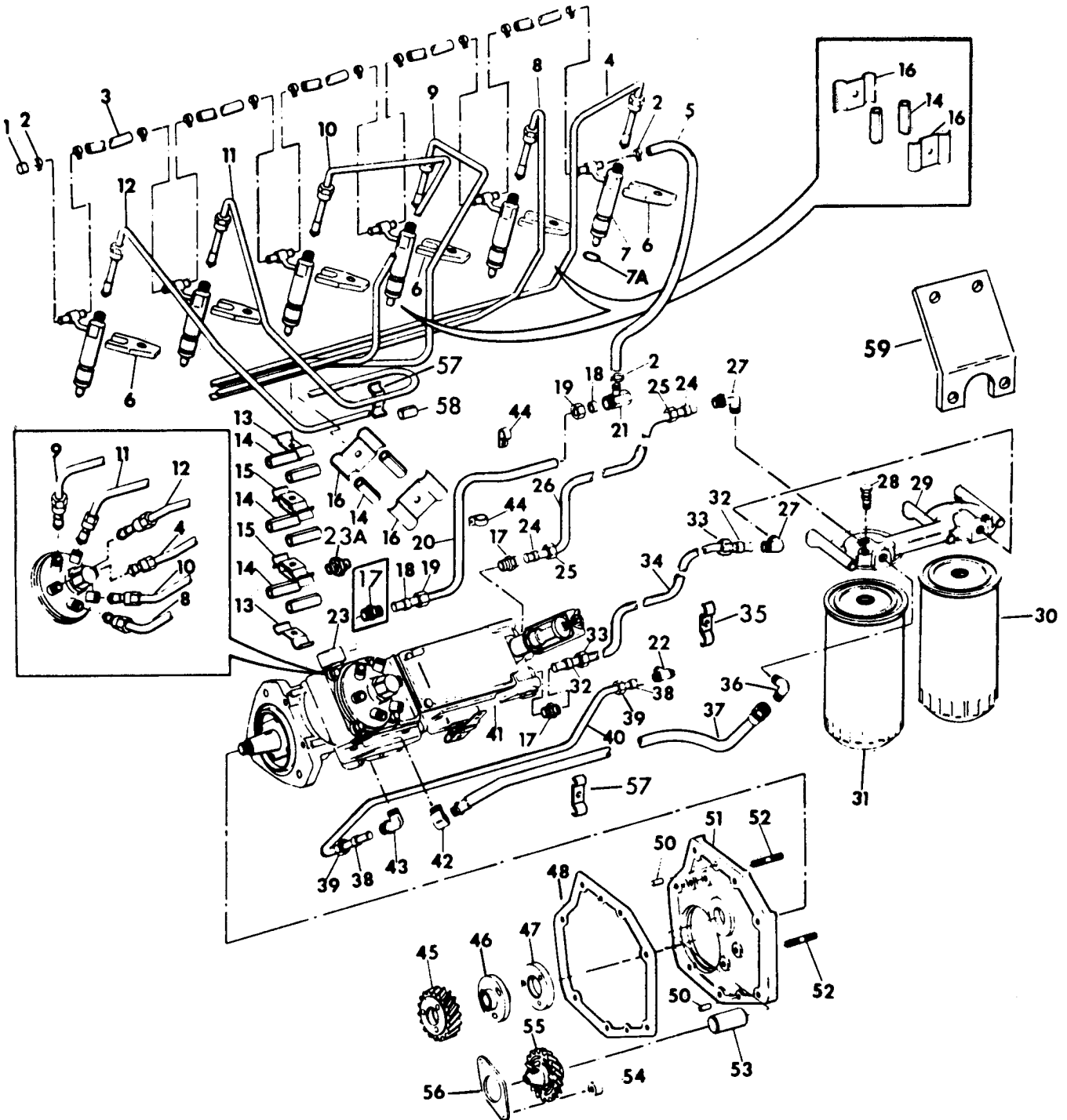
Ref No	Part Number	Description	Quantity
FLYWHEEL HOUSING AND FRONT ENGINE MOUNT			
(Galion Applications)			
1	673 390 C1	MOUNT, front support-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 879 R1	SCREW, 3" hex-hd cap-----	2
	25 976 R1	WASHER, hardened-----	4
2	682 945 C1	GASKET, flywheel housing-----	1
3	1806 894 C1	HOUSING, flywheel-----	1
		(For use w/Funk Transmission)	
		A400E A560E	
		A450E A600	
		A500E A606	
	26 273 R1	WASHER, 1/2" hardened-----	8
	25 278 R1	BOLT, 1/2" x 1-7/8"-----	8
	20 969 R1	PLUG, 3/4-14 NPT-----	1
	178 031	PLUG, 1-3/4" button-----	1
3	673 564 C91	HOUSING, flywheel-----	1
		LQ-159	
	25 278 R1	BOLT, 1/2" x 1-7/8"-----	8
	116 121	WASHER, 1/2" lock-----	8
3	673 036 C1	HOUSING, flywheel-----	1
		LQ-166A LQ-167	
		LQ-166B LQ-167A	
	25 278 R1	SCREW, 1/2-13 x 1-7/8"-----	1
	26 273 R1	WASHER, 1/2" hardened-----	8
	20 969 R1	PLUG, 3/4-14 NPT-----	1
3	678 493 C2	HOUSING, flywheel-----	1
		(For use with Clark Transmission)	
		LQ-157 LQ-165	
		LQ-157A LQ-165A	
		LQ-158 LQ-168	
		LQ-158A LQ-170	
		LQ-161A A550	
		LQ-161B A600	
		LQ-163 A606	
	24 864 R1	BOLT, 1/2-13 x 2" hex-hd cap-----	8
	116 121	WASHER, 1/2" hardened-----	8
	444 600	PLUG, 1" NPT-----	1
	445 751	PLUG, 1/2" NPT (in housing)-----	1
	445 090	PLUG, 3/4" UNF-----	1
	713 532 R1	GASKET, plug-----	1

ENGINE MOUNTING

MEMORANDA

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS
(DT-414 for 530)



CG-6832

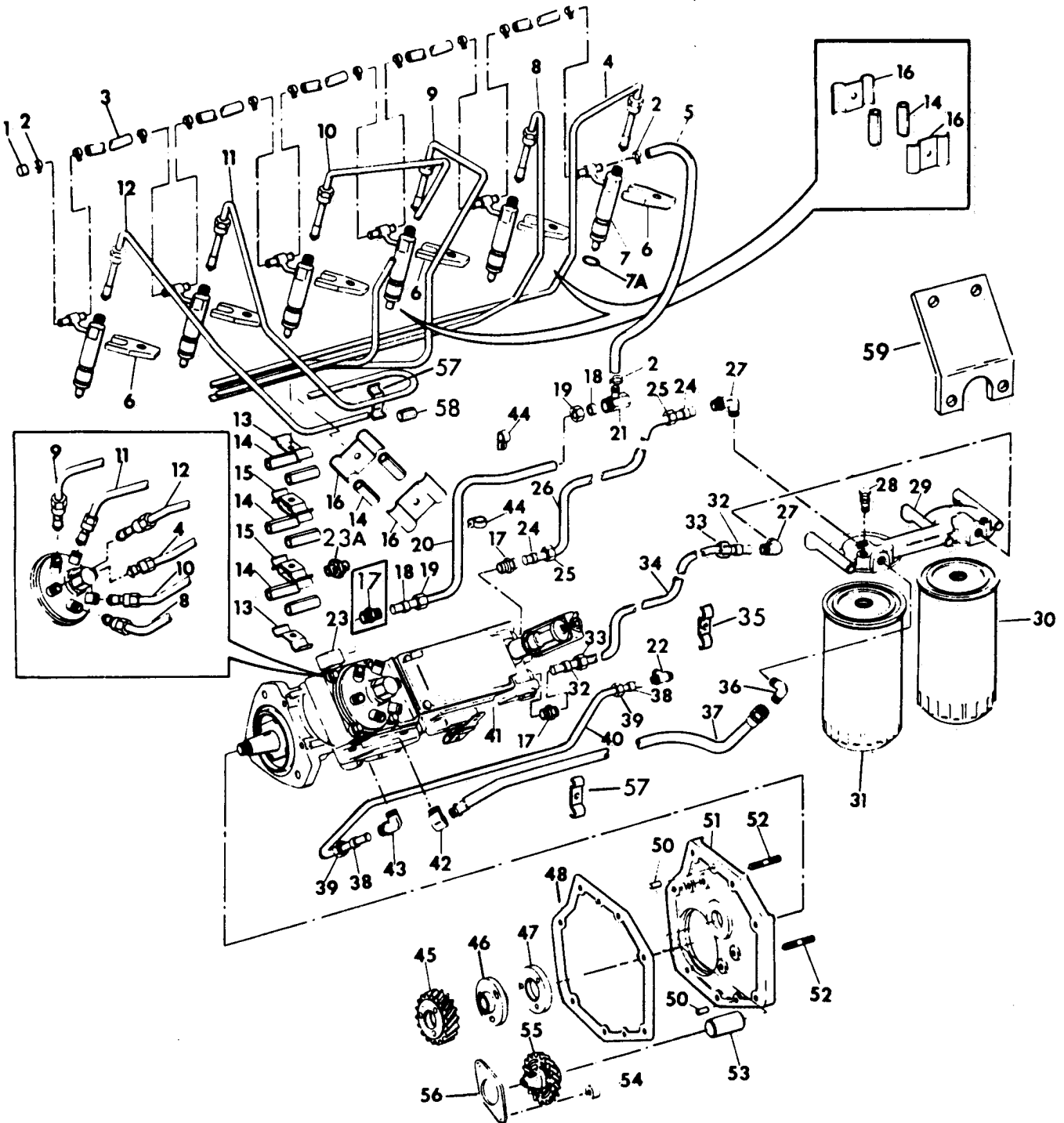
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS (DT-414 for 530)			
1	1802 452 C1	PLUG, fuel return (No. 1 injector)-----	1
2	1802 453 C1	CLIP, leak-off hose-----	13
3		HOSE, fuel return, (Injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
4	684 516 C1	PIPE, injection (Cylinder No. 6)-----	1
5		HOSE, No. 6 injector to leak-off tube, 3/16" ID x 11-1/2" cut from bulk HOSE, 680 246 C1-----	1
6	675 479 C2 691 105 C1	CRAB, injector nozzle (+)----- BOLT, injector crab (together with CRAB, 675 479 C2, replaces BOLT, 684 497 C1; WASHER, 675 677 C1; WASHER, 684 496 C1; and CRAB, 675 479 C1. DO NOT intermix the old with the new) (+)-----	6 6
7	687 145 C91	NOZZLE and NOZZLE HOLDER ASSY, fuel injection (Refer to "Nozzle and Nozzle Holder")-----	6
7A	682 810 C1	GROMMET, injector dust seal-----	6
8	684 515 C1	PIPE, injection (Cylinder No. 5)-----	1
9	684 514 C1	PIPE, injection (Cylinder No. 4)-----	1
10	684 513 C1	PIPE, injection (Cylinder No. 3)-----	1
11	684 512 C1	PIPE, injection (Cylinder No. 2)-----	1
12	684 511 C1	PIPE, injection (Cylinder No. 1)-----	1
13	673 527 C1 23 232 R1 897 416 R1 103 319	CLAMP, fuel line tube----- NUT----- SCREW, hex-hd cap----- WASHER, lock-----	2 1 1 1
14	258 079 C1	GROMMET, injection line-----	12
15	673 577 C1	CLAMP, duplex tube-----	2

(+) Reference Service Bulletin 12H-81-01

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414 for 530)



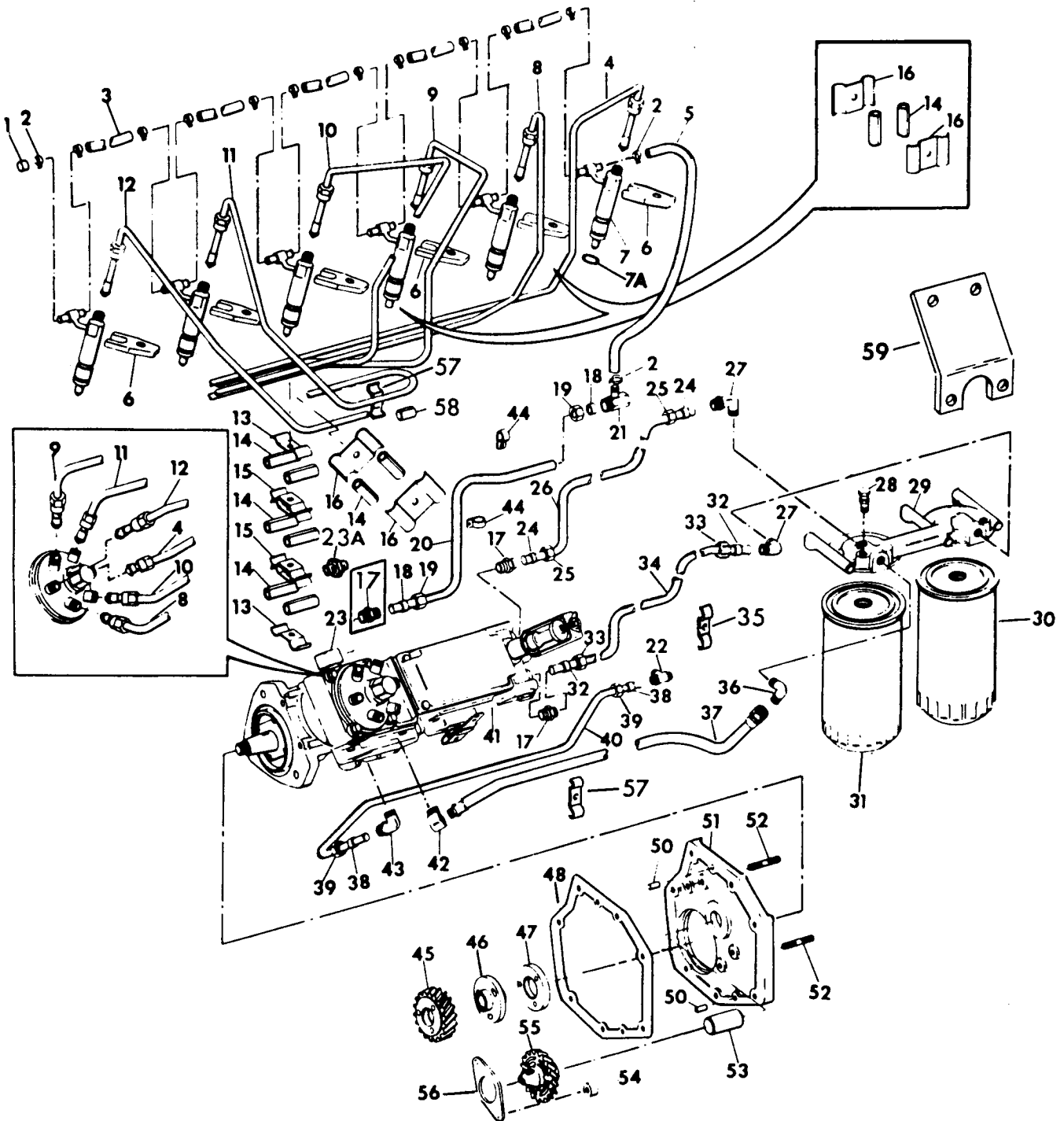
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (DT-414 for 530)			
16	673 527 C1	CLAMP, injection pipe-----	6
	684 548 C1	NUT-----	3
	25 752 R1	SCREW, hex-hd cap-----	3
17	606 819 C1	CONNECTOR, primary pump inlet and outlet (in pump)	
		116732 and below-----	3
		116733 and up-----	2
18	265 204 R1	SLEEVE-----	2
19	265 205 R1	NUT-----	2
20	680 316 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return lower-----	1
21	673 196 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (in crankcase)-----	1
23		VALVE, return (Valve is no longer furnished as part of fuel injection pump) (Order FITTING, 687 426 C1 and ELBOW, 444 040) - 116732 and below	
23	444 040	ELBOW, fuel return - 116733 and up-----	1
23A	687 426 C1	FITTING, fuel return orifice, .040" - 116733 and up--	1
24	265 204 R1	SLEEVE-----	2
25	265 205 R1	NUT-----	2
26	690 522 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary pump to final filter-----	1
27	606 845 C1	ELBOW, 90 degrees NPT primary filter outlet and final filter inlet-----	2
28	39 677 DA	VALVE, bleeder-----	1
29	1802 964 C2	HEADER, filter-----	1
	25 784 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
30	625 627 C1	FILTER, primary fuel-----	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414 for 530)



CG-6832

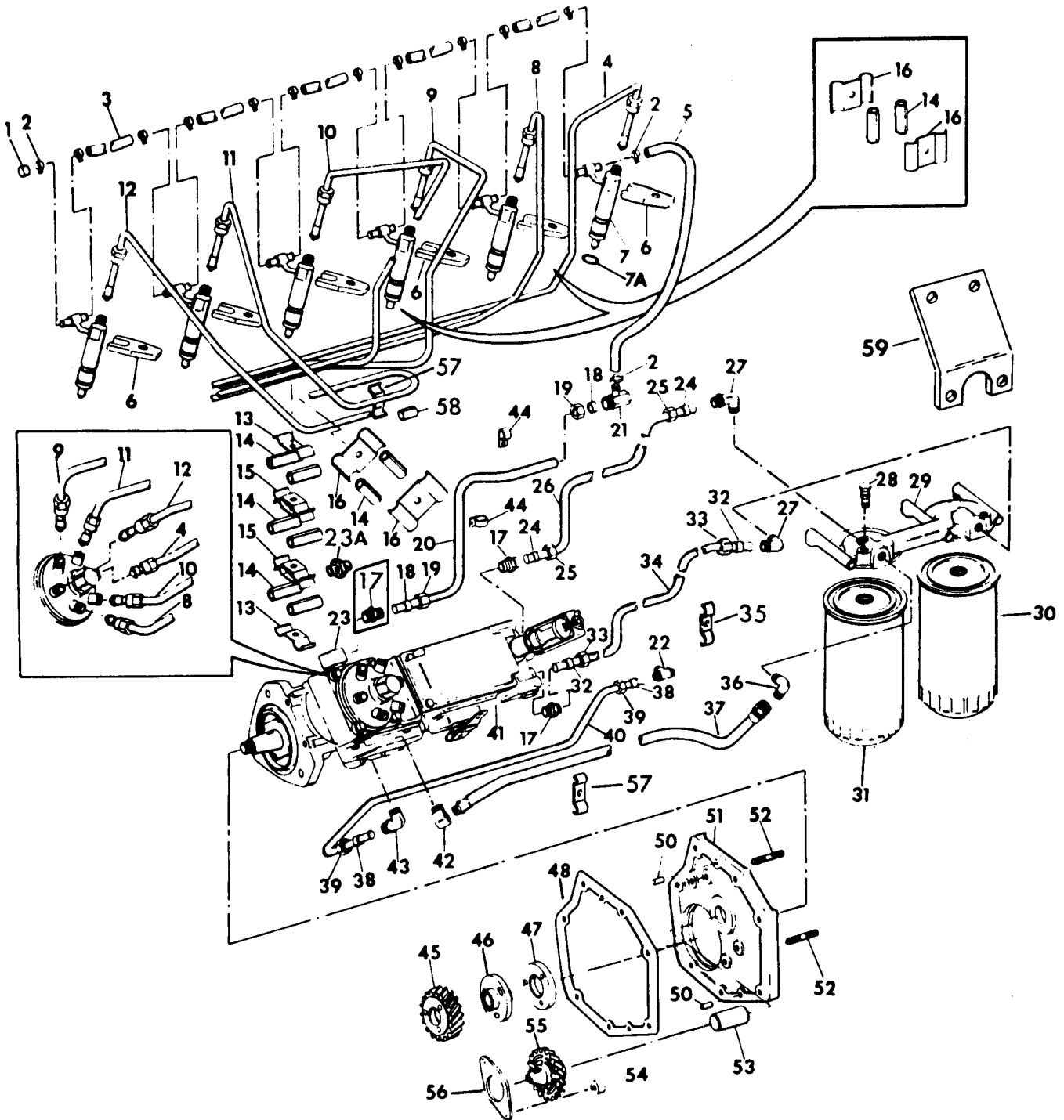
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (DT-414 for 530)			
31	672 603 C2	FILTER, final fuel-----	1
32	265 204 R1	SLEEVE-----	2
33	265 205 R1	NUT-----	2
34	678 515 C91	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, primary filter to primary pump-----	1
35	673 527 C1	CLAMP, primary pump to final filter and primary filter to primary pump tube-----	2
	258 079 C1	GROMMET, fuel pipe-----	2
	262 038 R1	NUT, speed-----	1
	113 957	SCREW, slt-hd mach-----	1
36	118 755	ELBOW, 90 degrees final filter outlet-----	1
37	688 190 C1	HOSE w/FITTINGS, final filter to injection pump-----	1
38	915 500 R1	SLEEVE-----	2
39	915 499 R1	NUT-----	2
40	673 165 C91	TUBE w/two SLEEVE, 915 500 R1, and two NUT, 915 499 R1, lube oil (Injection pump to crankcase)-----	1
41	687 047 C91	PUMP ASSY, fuel injection (165 HP @ 2500 RPM) (See NOTE)-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
42		ELBOW (Furnished as part of PUMP)	
43	606 296 C1	ELBOW, flex lube oil inlet (In pump)-----	1

NOTE: Refer to Fuel Injection Pump Parts Catalog
PC-AB when ordering detail parts for
complete pump

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414 for 530)



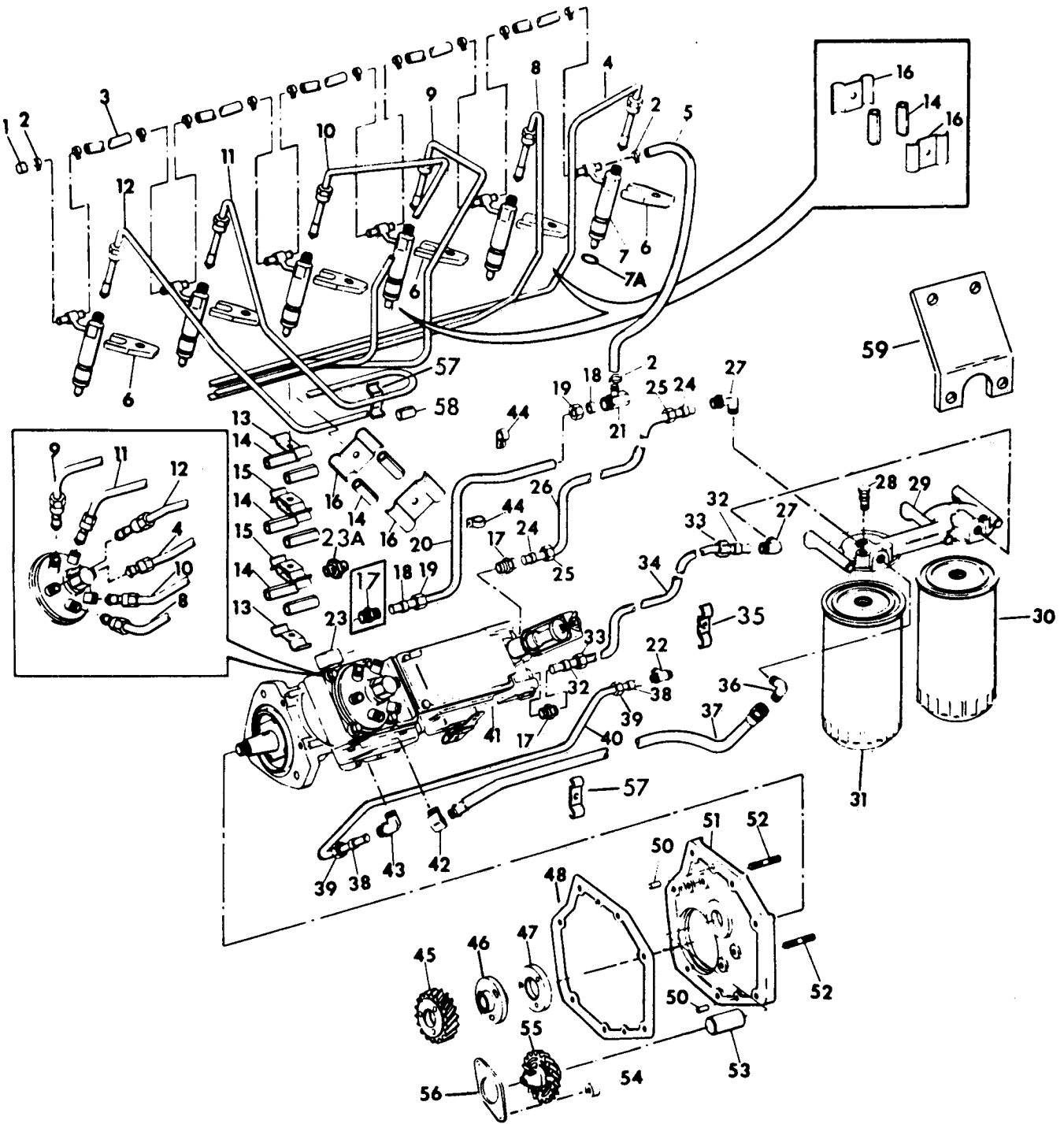
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (DT-414 for 530)			
44	673 193 C1	CLIP, tee-----	3
	24 839 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, lock-----	2
45	676 922 C2	GEAR, injection pump (33 Teeth)-----	1
46		HUB, injection pump gear (Part of INJECTION PUMP)	
47		PLATE, gear retainer (Part of INJECTION PUMP)	
	21 512 R1	SCREW, hex-hd cap-----	3
48	675 609 C1	GASKET, injection pump mounting adaptor-----	1
50	680 481 C1	PIN, dowel-----	2
51	676 942 C92	ADAPTER, injection pump mounting (Aluminum)-----	1
		Composed of:	
	NSS	ADAPTER-----	1
	680 481 C1	PIN-----	2
	19 968 R1	PIN-----	1
	9409 949	PLUG-----	1
	256 333 R1	STUD-----	2
	25 523 R1	NUT-----	2
	25 232 R1	SCREW, 2" hex-hd cap-----	1
	25 533 R1	SCREW, 2-1/2" hex-hd cap-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	103 340	WASHER, 11/32" ID flat-----	1
	25 540 R1	WASHER, 5/16" hardened-----	3
52	256 333 R1	STUD-----	2
53	19 968 R1	PIN, dowel-----	1
54	676 936 C1	SPACER-----	2
55	676 938 C1	GEAR, tachometer drive-----	1
56	676 937 C1	PLATE, tachometer drive thrust-----	1
	273 767	NUT, conelock hex-----	2
	27 292 R1	SCREW, hex-hd cap-----	2
	302 861 R1	WASHER, flat (Copper)-----	2

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414 for 530)



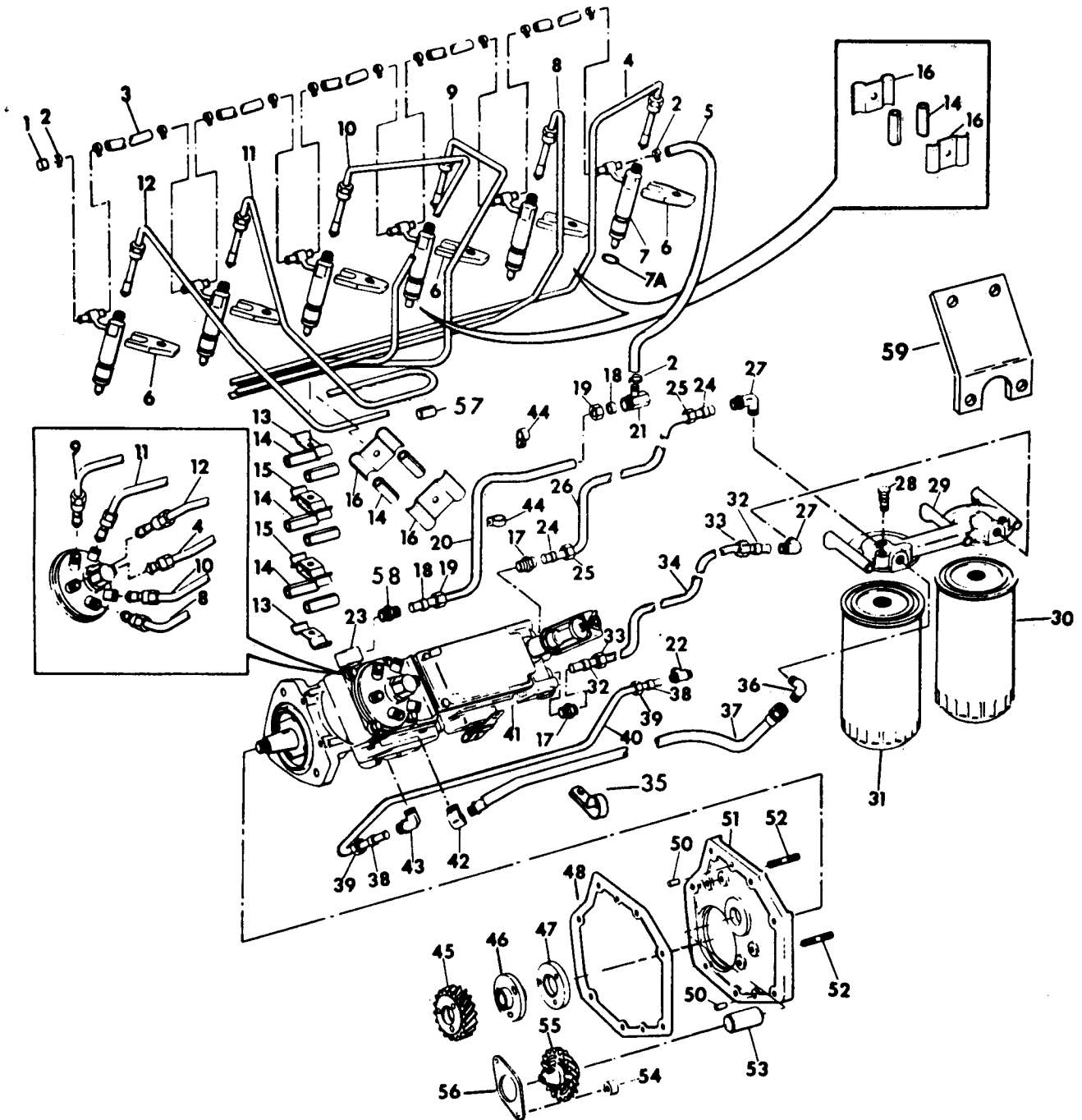
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (DT-414 for 530)			
57	684 899 C1	CLAMP, final filter to injection pump and No. 2	
		injection pipe-----	4
	19 592 R1	NUT-----	1
	25 222 R1	SCREW, slt-hd mach-----	1
58	258 079 C1	GROMMET, fuel pipe-----	2
	536 410 R1	GROMMET-----	2
59	688 296 C1	SUPPORT, control cable-----	1
	24 846 C1	SCREW, hex-hd cap-----	2
	25 896 C1	WASHER, hardened-----	2
	680 246 C1	HOSE, 3/16" ID x 120"-----	AR
	444 654	PLUG, pipe (Port closure lock)-----	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS
(DT-414B for 530)



CG-5667

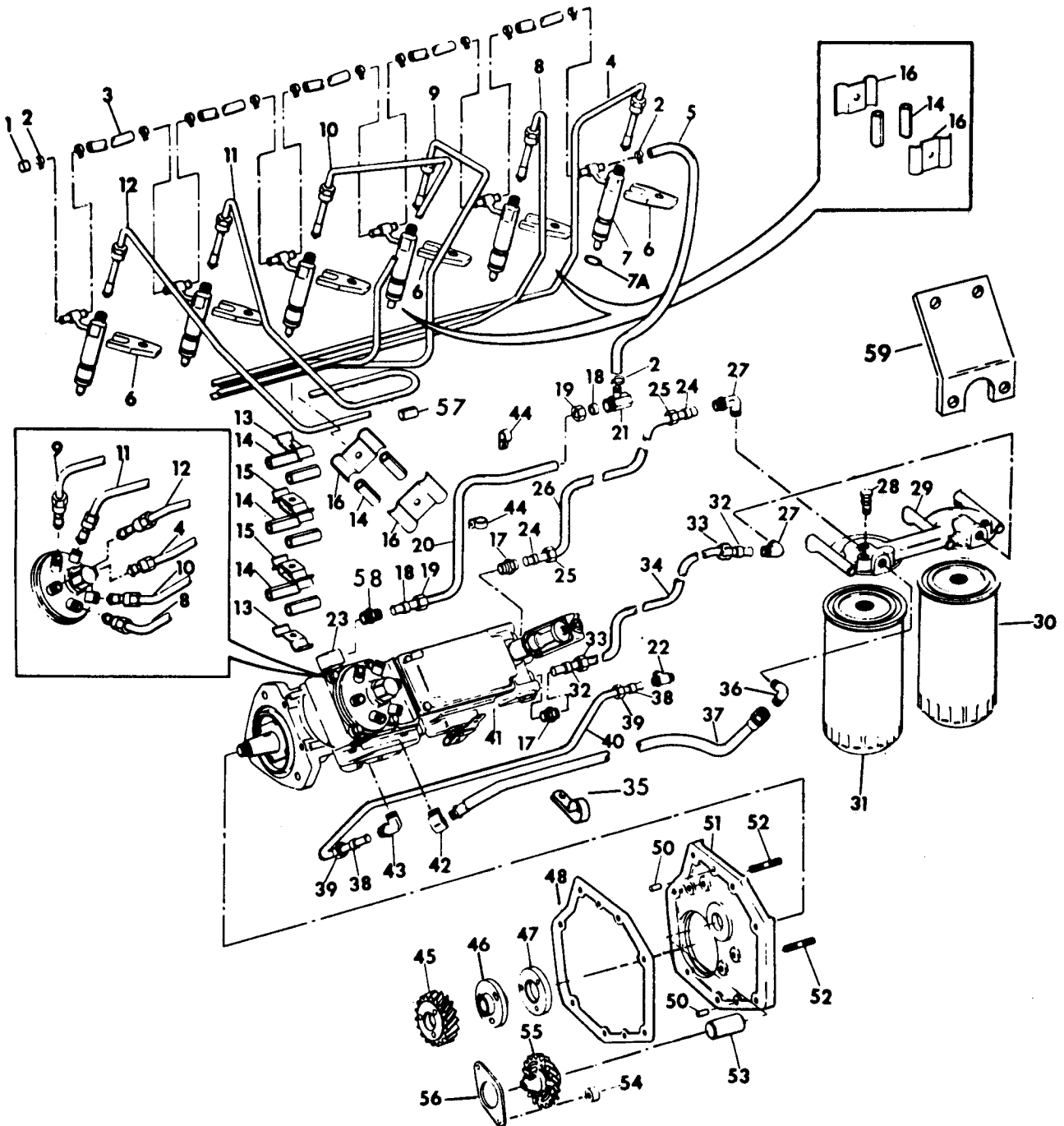
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS (DT-414B for 530)			
1	1802 452 C1	PLUG, fuel return (No. 1 injector)-----	1
2	1802 453 C1	CLIP, leak-off hose-----	13
3		HOSE, fuel return, (Injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
4	688 856 C1	PIPE, injection (Cylinder No. 6)-----	1
5		HOSE, No. 6 injector to leak-off tube, 3/16" ID x 11-1/2" cut from bulk HOSE, 680 246 C1-----	1
6	675 479 C2 691 105 C1	CRAB, injector nozzle (+)----- BOLT, injector crab (together with CRAB, 675 479 C2, replaces BOLT, 684 497 C1; WASHER, 675 677 C1; WASHER, 684 496 C1; and CRAB, 675 479 C1. DO NOT intermix the old with the new) (+)-----	6 6
7	687 372 C91	NOZZLE and NOZZLE HOLDER ASSY, fuel injection (Refer to "Nozzle and Nozzle Holder")-----	6
7A	682 810 C1	GROMMET, injector dust seal-----	6
8	688 855 C1	PIPE, injection (Cylinder No. 5)-----	1
9	688 854 C1	PIPE, injection (Cylinder No. 4)-----	1
10	688 853 C1	PIPE, injection (Cylinder No. 3)-----	1
11	688 852 C1	PIPE, injection (Cylinder No. 2)-----	1
12	688 851 C1	PIPE, injection (Cylinder No. 1)-----	1
13	673 527 C1	CLAMP, fuel line tube-----	2
	684 548 C1	NUT, spring-----	1
	113 957	SCREW, 3/4" sl-hd-----	1
	103 319	WASHER, lock-----	1
14	258 079 C1	GROMMET, injection line-----	14
15	673 577 C1	CLAMP, duplex tube-----	3

(+) Reference Service Bulletin 12H-81-01

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414B for 530)



CG-5667

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(DT-414B for 530)			
16	673 527 C1	CLAMP, injection pipe-----	6
	684 548 C1	NUT-----	3
	25 752 R1	SCREW, hex-hd cap-----	3
17	606 819 C1	CONNECTOR, primary pump inlet and outlet (in pump)---	2
18	265 204 R1	SLEEVE-----	2
19	265 205 R1	NUT-----	2
20	680 316 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return lower-----	1
21	673 196 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (in crankcase)-----	1
23	444 040	ELBOW, fuel return -----	1
24	265 204 R1	SLEEVE-----	2
25	265 205 R1	NUT-----	2
26	690 522 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary pump to final filter-----	1
27	606 845 C1	ELBOW, 90 degrees NPT primary filter outlet and final filter inlet-----	2
28	39 677 DA	VALVE, bleeder-----	1
29	1802 964 C2	HEADER, filter-----	1
	25 784 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
30	625 627 C1	FILTER, primary fuel-----	1
31	672 603 C2	FILTER, final fuel-----	1
32	265 204 R1	SLEEVE-----	2
33	265 205 R1	NUT-----	2
34	678 515 C91	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, primary filter to primary pump-----	1

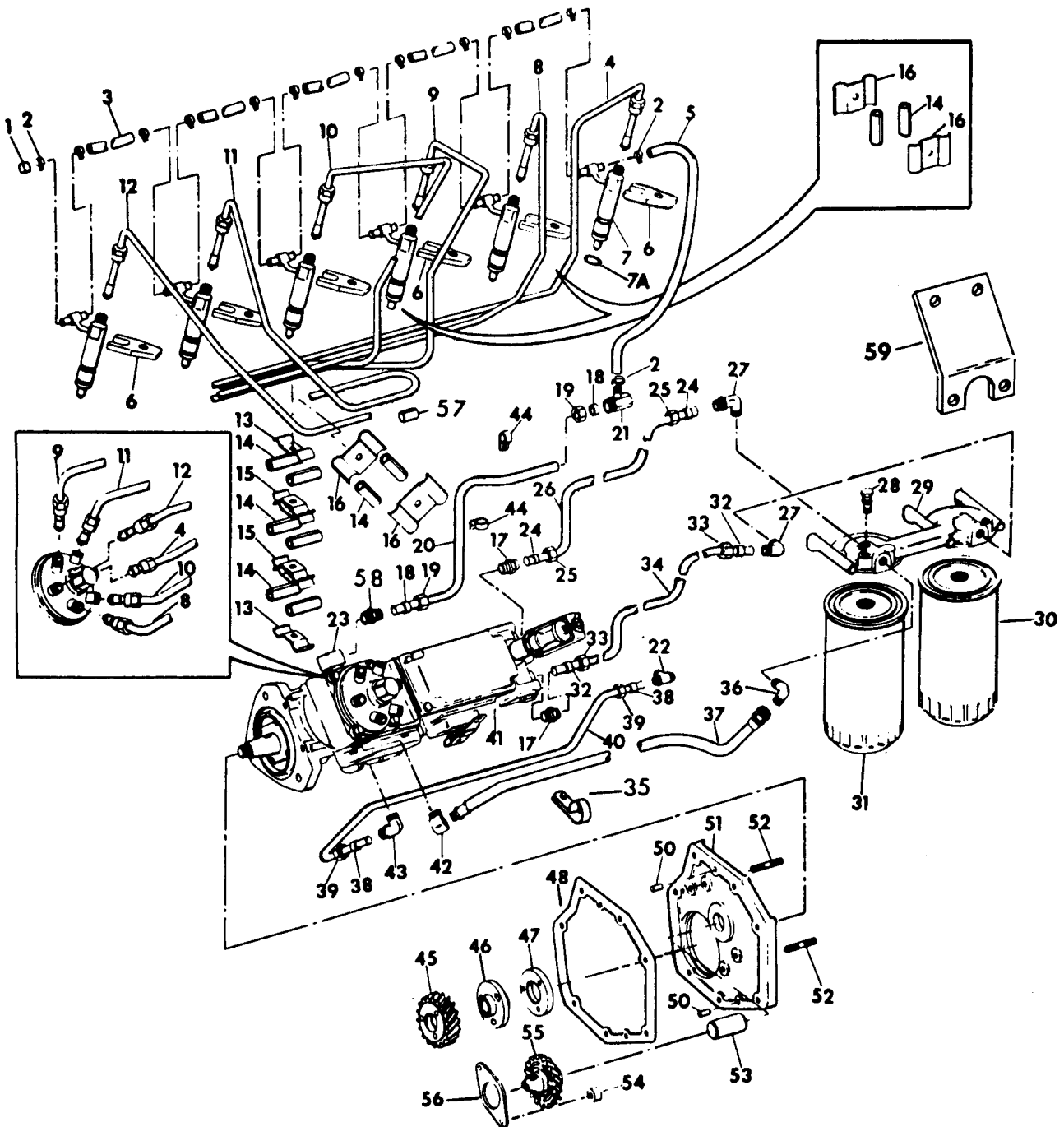
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (DT-414B for 530)			
35	299 615 C1	CLAMP, closed, fuel hose-----	1
	140 483 H	BOLT, 1-1/4"-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	120 382	WASHER, 3/8" lock-----	1
	25 522 R1	NUT, 3/8-16-----	1
36	118 755	ELBOW, 90 degrees final filter outlet-----	1
37	688 190 C1	HOSE w/FITTINGS, final filter to injection pump-----	1
38	915 500 R1	SLEEVE-----	2
39	915 499 R1	NUT-----	2
40	673 165 C91	TUBE w/two SLEEVE, 915 500 R1, and two NUT, 915 499 R1, lube oil (Injection pump to crankcase)-----	1
41	687 476 C91	PUMP ASSY, fuel injection (165 HP @ 2500 RPM) (See NOTE)-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1
42		ELBOW (Furnished as part of PUMP)	
43	606 296 C1	ELBOW, flex lube oil inlet (In pump)-----	1
44	673 193 C1	CLIP, tee-----	2
	24 839 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	2
45	676 922 C2	GEAR, injection pump (33 Teeth)-----	1
46		HUB, injection pump gear (Part of INJECTION PUMP)	

NOTE: Refer to Fuel Injection Pump Parts Catalog
PC-AB when ordering detail parts for
complete pump

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414B for 530)



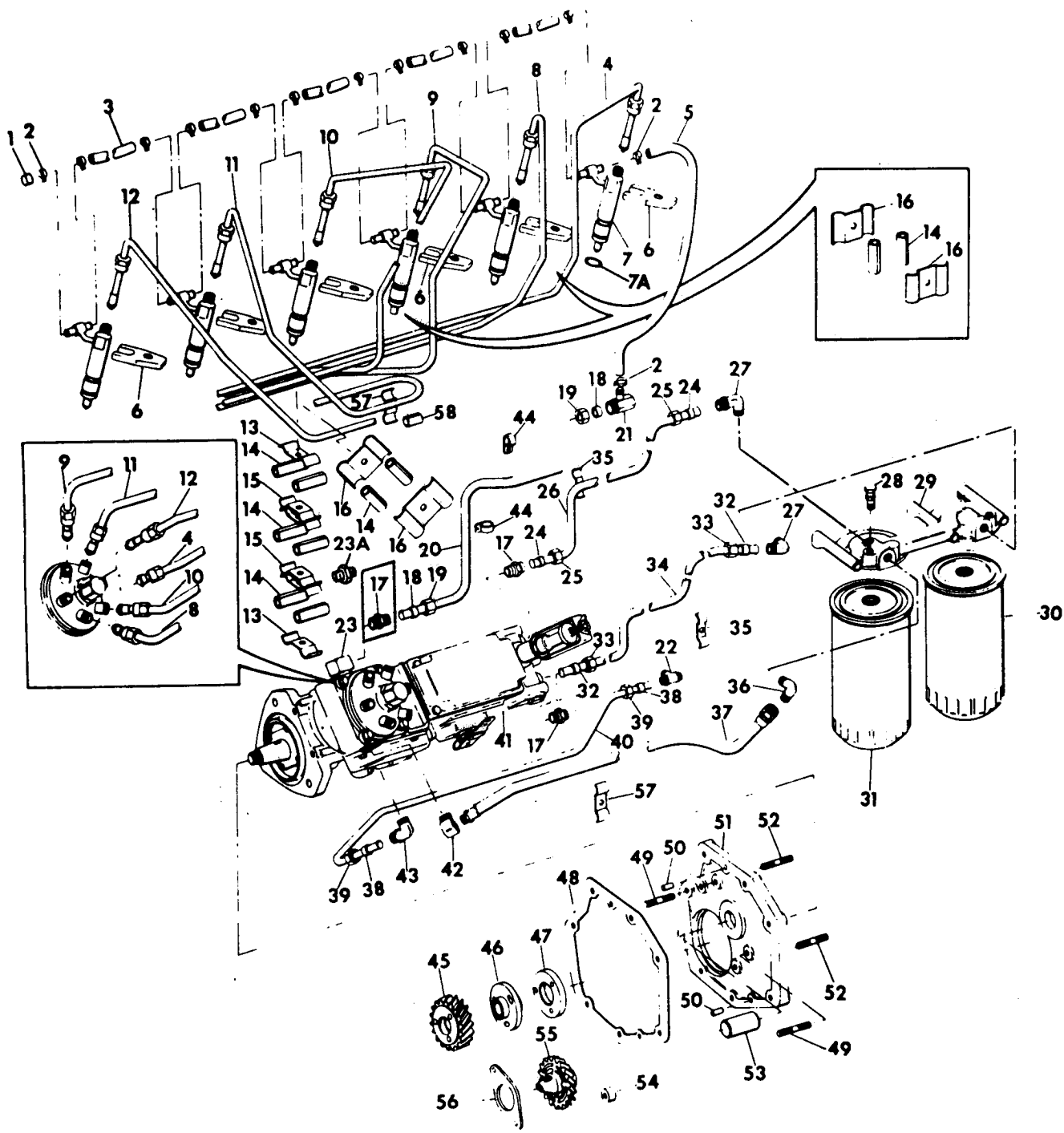
CG-5667

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (DT-414B for 530)			
47	21 512 R1	PLATE, gear retainer (Part of INJECTION PUMP) SCREW, hex-hd cap-----	3
48	675 609 C1	GASKET, injection pump mounting adaptor-----	1
50	680 481 C1	PIN, dowel-----	2
51	676 942 C92	ADAPTER, injection pump mounting (Aluminum)----- Composed of:	1
	NSS	ADAPTER-----	1
	680 481 C1	PIN-----	2
	19 968 R1	PIN-----	1
	9409 949	PLUG-----	1
	256 333 R1	STUD-----	2
	25 533 R1	SCREW, 2-1/2" hex-hd cap-----	2
	103 340	WASHER, 11/32" ID flat-----	2
	27 292 R1	SCREW, 2-1/4" hex-hd cap-----	2
52	256 333 R1	STUD-----	2
53	19 968 R1	PIN, dowel-----	1
54	676 936 C1	SPACER-----	2
55	676 938 C1	GEAR, tachometer drive-----	1
56	676 937 C1	PLATE, tachometer drive thrust-----	1
	273 767	NUT, conelock hex-----	2
	302 861 R1	WASHER, flat (Copper)-----	2
57	536 410 R1	GROMMET-----	2
58	687 426 C1	FITTING, fuel return orifice, .040"-----	1
59	688 296 C1	SUPPORT, control cable-----	1
	24 846 C1	SCREW, hex-hd cap-----	2
	25 896 C1	WASHER, hardened-----	2
	9409 949	PLUG, injection pump mounting adapter-----	1
	680 246 C1	HOSE, 3/16" ID x 120"-----	AR
	444 654	PLUG, pipe (Port closure lock)-----	1

FUEL SYSTEM

**INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS**
(DT-414 for H-65C and E-200)
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



CG-6831

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS			
(DT-414 for H-65C and E-200)			
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)			
1	1802 452 C1	PLUG, fuel return (No. 1 injector)-----	1
2	1802 453 C1	CLIP, leak-off hose-----	13
3		HOSE, fuel return, (Injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
4	680 126 C1	PIPE, injection (Cylinder No. 6)-----	1
5		HOSE, No. 6 injector to leak-off tube, 3/16" ID x 11-1/2" cut from bulk HOSE, 680 246 C1-----	1
6	675 479 C2 691 105 C1	CRAB, injector nozzle (+)----- BOLT, injector crab (together with CRAB, 675 479 C2, replaces BOLT, 684 497 C1; WASHER, 675 677 C1; WASHER, 684 496 C1; and CRAB, 675 479 C1. DO NOT intermix the old with the new) (+)-----	6 6
7		NOZZLE and NOZZLE HOLDER ASSY, fuel injection (Refer to "Nozzle and Nozzle Holder")-----	6
7A	682 810 C1	GROMMET, injector dust seal-----	6
8	680 125 C1	PIPE, injection (Cylinder No. 5)-----	1
9	680 124 C1	PIPE, injection (Cylinder No. 4)-----	1
10	680 123 C1	PIPE, injection (Cylinder No. 3)-----	1
11	680 122 C1	PIPE, injection (Cylinder No. 2)-----	1
12	680 121 C1	PIPE, injection (Cylinder No. 1)-----	1
13	673 527 C1	CLAMP, fuel line tube-----	2
	23 232 R1	NUT-----	1
	897 416 R1	SCREW, hex-hd cap-----	1
	103 319	WASHER, lock-----	1
14	258 079 C1	GROMMET, injection line-----	12
15	673 577 C1	CLAMP, duplex tube-----	2

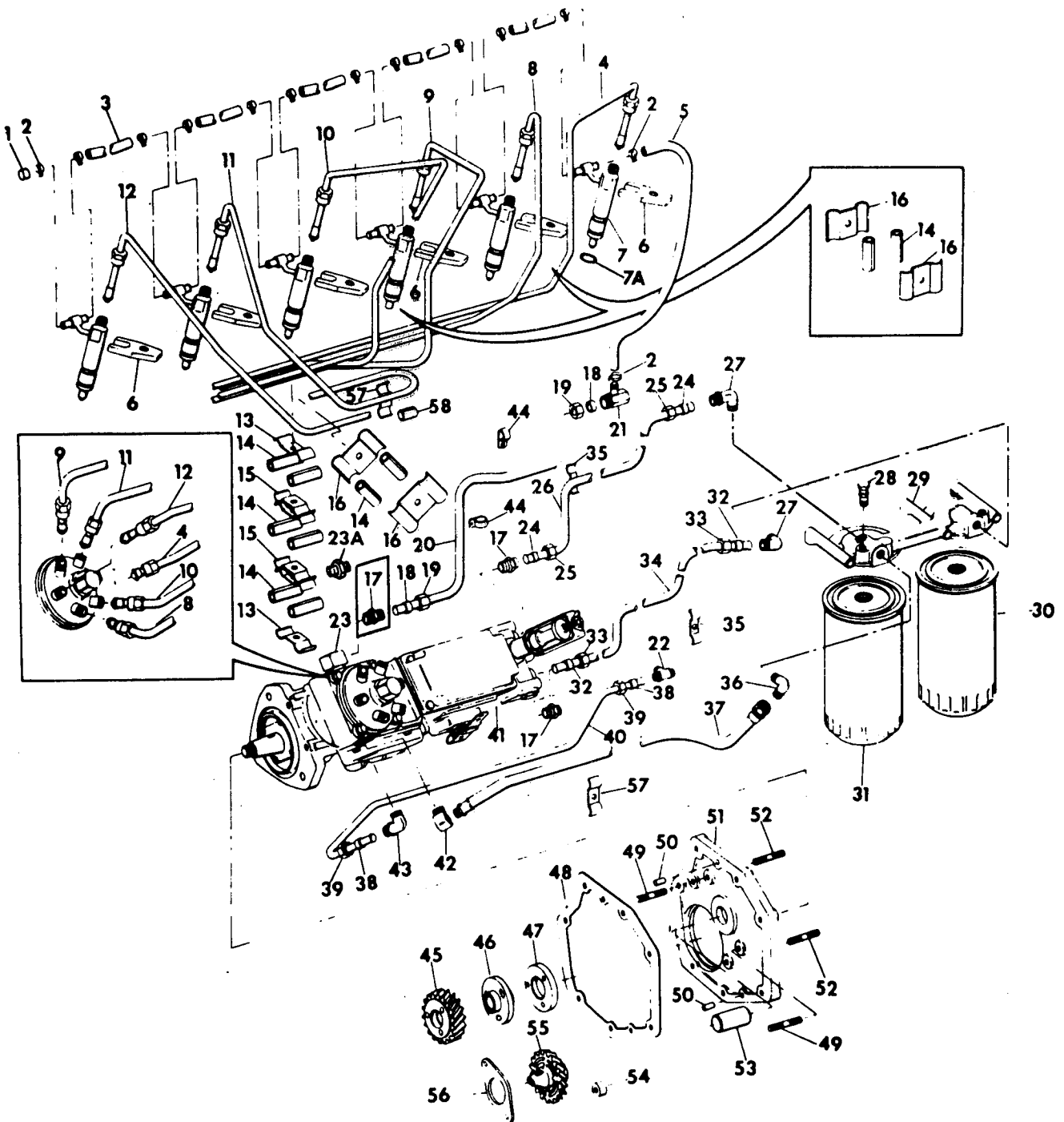
(+) Reference Service Bulletin 12H-81-01

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(DT-414 for H-65C and E-200)

(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



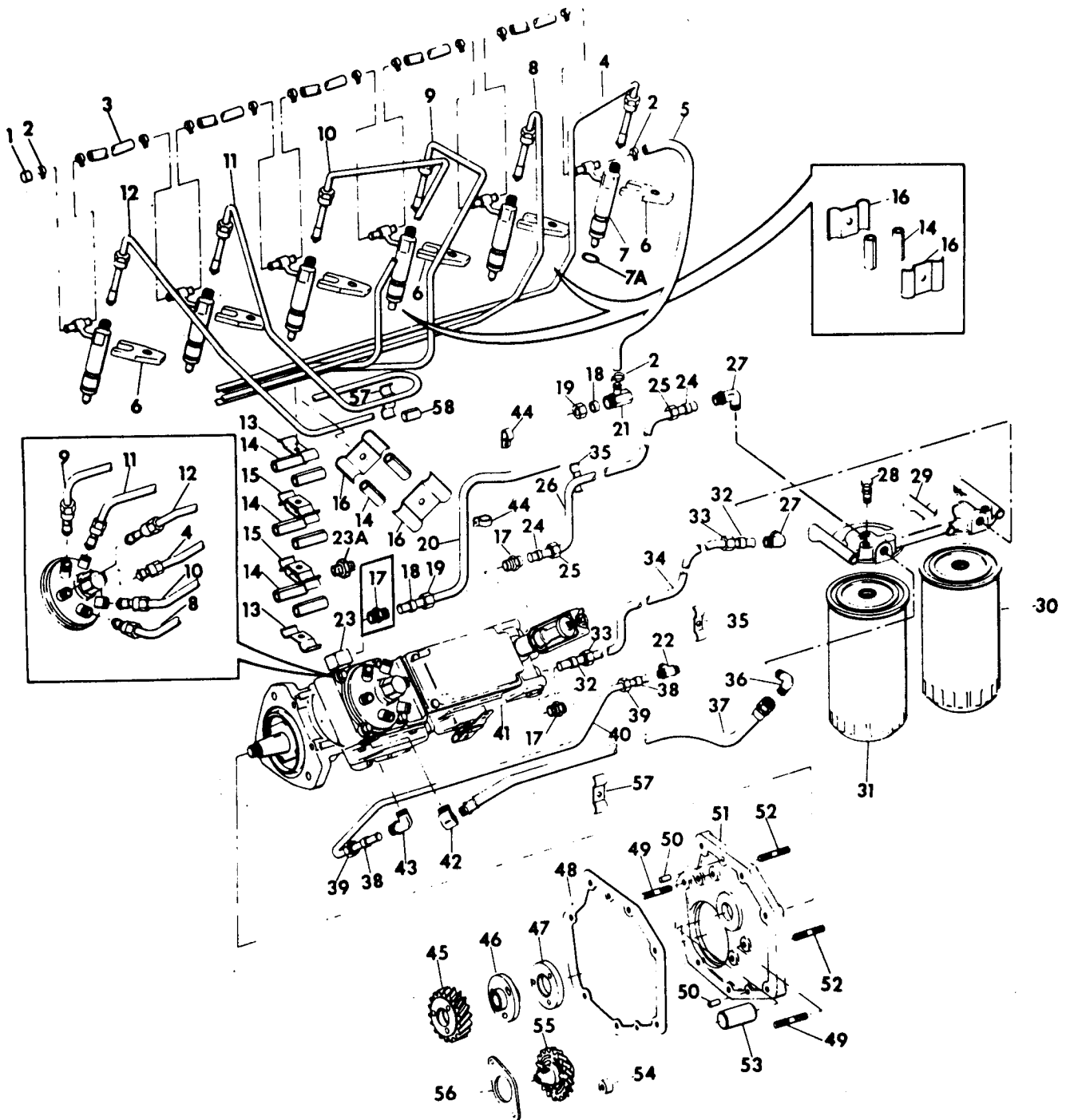
CG-6831

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(DT-414 for H-65C and E-200)			
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)			
16	673 527 C1	CLAMP, injection pipe-----	6
	684 548 C1	NUT-----	3
	25 752 R1	SCREW, hex-hd cap-----	3
17	606 819 C1	CONNECTOR, primary pump inlet and outlet (in pump)	
		for DT-414 - 116846 and below-----	3
		for DT-466 - 33667 and below-----	3
		for DT-414 - 116847 and up-----	2
		for DT-466 - 33668 and up-----	2
18	265 204 R1	SLEEVE-----	2
19	265 205 R1	NUT-----	2
20	680 316 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return lower-----	1
21		(See Individual Engine Variation)	
22		(See Individual Engine Variation)	
23		VALVE, return (Valve is no longer furnished as part of fuel injection pump) (Order FITTING, 687 426 C1 and ELBOW, 444 040) DT-414 - 116846 and below DT-466 - 33667 and below	
23	444 040	ELBOW, fuel return - 116733 and up----- DT-414 - 116847 and up DT-466 - 33668 and up	1
23A	687 426 C1	FITTING, fuel return orifice, .040" ----- DT-414 - 116847 and up DT-466 - 33668 and up	1
24	265 204 R1	SLEEVE-----	2
25	265 205 R1	NUT-----	2
26	671 815 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary pump to final filter----- H-65C 41849 and below 433 & E-200 44472 and below 444 4473 and below H-80B 4566 and below TD-15C 4669 and below 412 4447 and below 175C 4628 and below	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414 for H-65C and E-200)
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



CG-6831

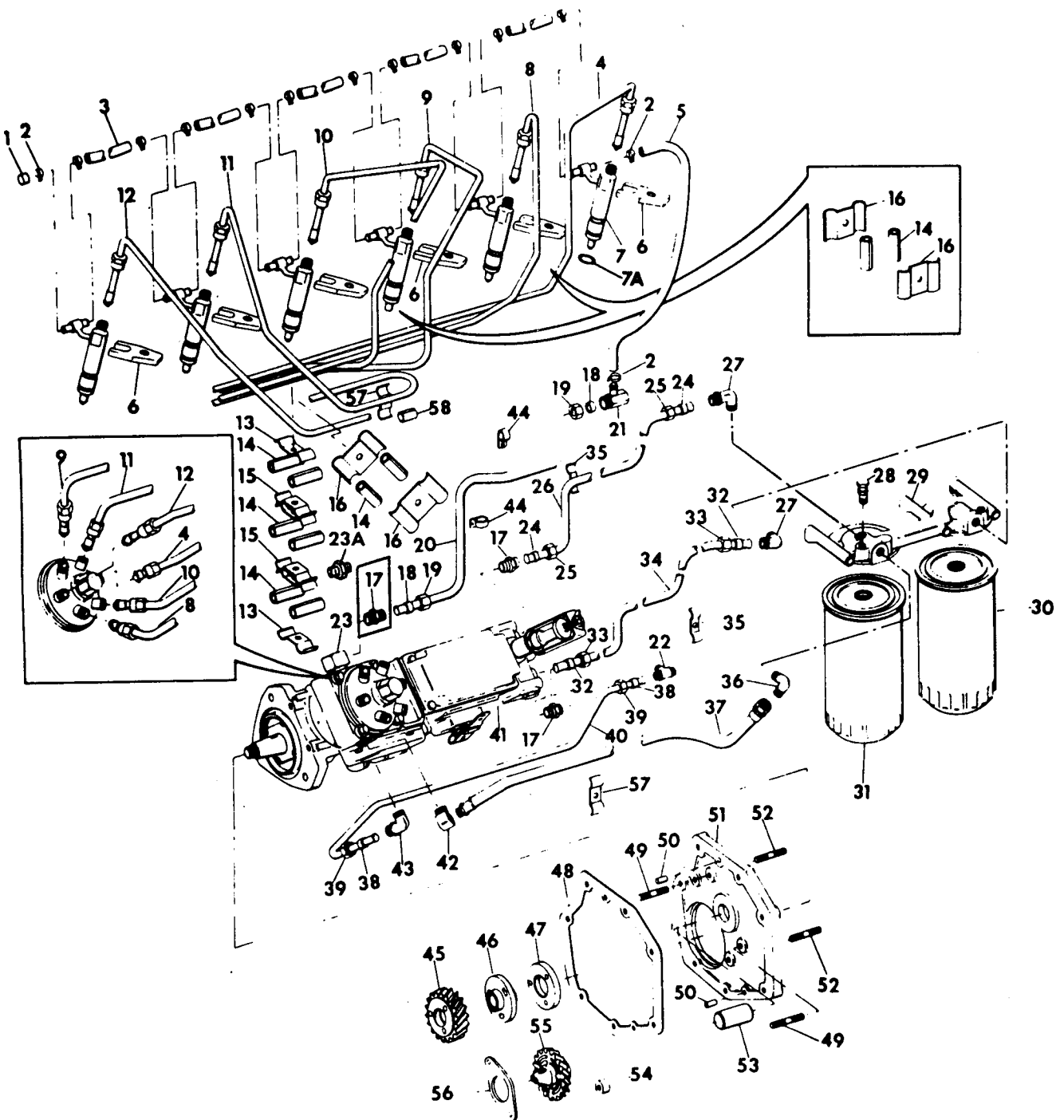
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(DT-414 for H-65C and E-200)			
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)			
26	684 077 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary pump to final filter----- H-65C 41850 and up 433 & E-200 44473 and up 444 4474 and up H-80B 4567 and up TD-15C 4670 and up 412 4448 and up 175C 4629 and up	1
27	606 845 C1	ELBOW, 90 degrees NPT primary filter outlet and final filter inlet-----	2
28	39 677 DA	VALVE, bleeder----- 412 2301 and below H-80B 2449 and below TD-15C 2403 and below 433 & 175C 2382 and below 444 2276 and below	2
28	39 677 DA	VALVE, bleeder----- 412 2302 and up H-80B 2450 and up TD-15C 2404 and up 433 & 175C 2383 and up 444 2277 and up	1
29	1802 964 C2	HEADER, filter-----	1
	25 784 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
30	625 626 C1	FILTER, primary fuel (+)----- H-65C and E-200 - 80222 and below H-80B, 412, TD-15C, 175C, 433 & 444 - 13714 and below	1
30	625 627 C1	FILTER, primary fuel (+)----- H-65C and E-200 - 80223 and up H-80B, 412, TD-15C, 175C, 433 & 444 - 13715 and up	1

(+) - Not for units equipped w/water separator ATTACHMENT. For units equipped w/water separator ATTACHMENT, order FILTER, 702 255 C1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414 for H-65C and E-200)
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



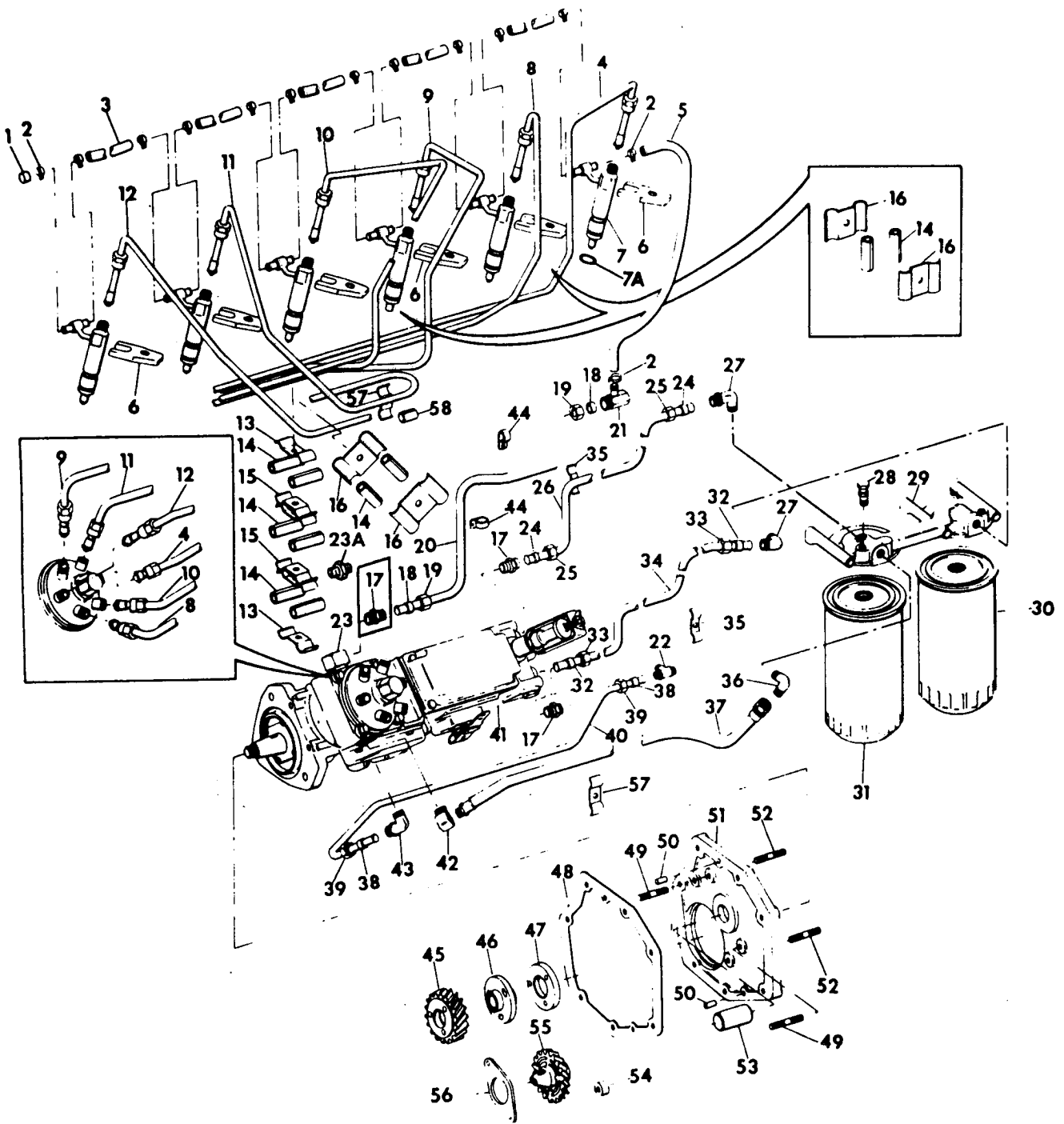
CG-6831

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(DT-414 for H-65C and E-200)			
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)			
31	672 603 C2	FILTER, final fuel-----	1
	9409 942	TEE (In filter header - final filter side)-----	1
	445 684	PLUG, pipe (In tee)-----	1
32	265 204 R1	SLEEVE-----	2
33	265 205 R1	NUT-----	2
34	671 830 C91	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, primary filter to primary pump-----	1
	H-65C	41849 and below 433 &	
	E-200	44472 and below 444 4473 and below	
	H-80B	4566 and below TD-15C 4669 and below	
	412	4447 and below 175C 4627 and below	
34	684 075 C91	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, primary filter to primary pump-----	1
	H-65C	41850 and up 433 &	
	E-200	44473 and up 444 4474 and up	
	H-80B	4567 and up TD-15C 4670 and up	
	412	4448 and up 175C 4629 and up	
35	673 527 C1	CLAMP, primary pump to final filter and primary filter to primary pump tube-----	2
	258 079 C1	GROMMET, fuel pipe-----	2
	262 038 R1	NUT, speed-----	1
	113 957	SCREW, slt-hd mach-----	1
36	9402 838	ELBOW, 90 degrees final filter outlet----- (Used w/HOSE, 684 167 C1) - # and below	1
36	118 755	ELBOW, 90 degrees final filter outlet----- (Used w/HOSE, 688 190 C1) - # and up	1
37	684 167 C1	HOSE w/FITTINGS, final filter to injection pump----- (HOSE, 3/8" ID x 26" including FITTINGS, 9/16" 37° flare swivel fitting) - # and below	1
37	688 190 C1	HOSE w/FITTINGS, final filter to injection pump----- (HOSE, 3/8" ID x 25" including FITTINGS, 5/8" 45° flare swivel fitting) - # and up	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued
(DT-414 for H-65C and E-200)
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



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FUEL SYSTEM

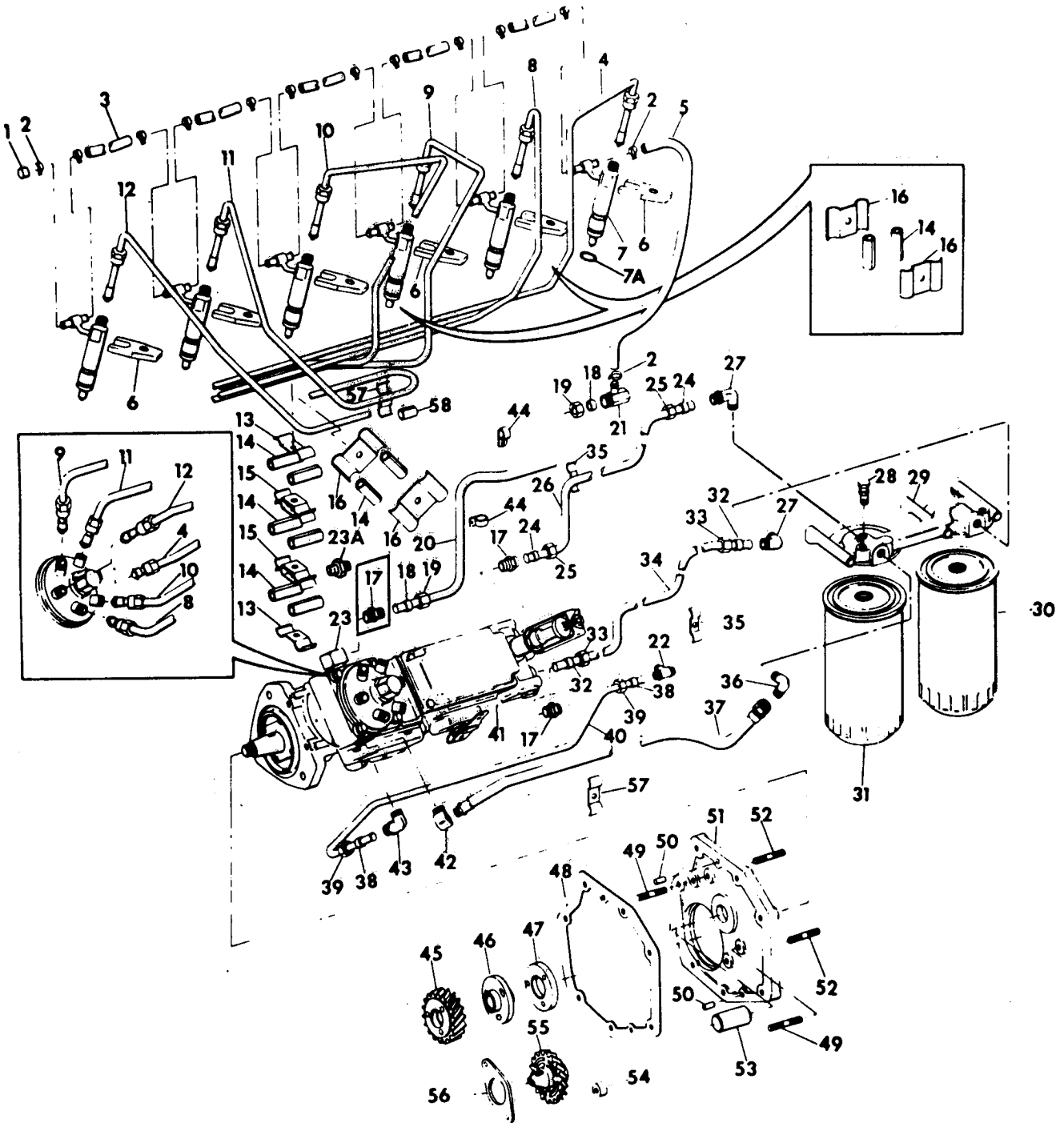
Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(DT-414 for H-65C and E-200)			
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)			
38	915 500 R1	SLEEVE-----	2
39	915 499 R1	NUT-----	2
40	673 165 C91	TUBE w/two SLEEVE, 915 500 R1, and two NUT, 915 499 R1, lube oil (Injection pump to crankcase)-----	1 1
41		(See Individual Engine Variation)	
42		ELBOW (Furnished as part of INJECTION PUMP, refer to Parts Catalog Form PC-AB)	
43	606 296 C1	ELBOW, flex lube oil inlet (In pump)-----	1
44	673 193 C1	CLIP, tee-----	3
	24 839 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, lock-----	2
45	676 922 C2	GEAR, injection pump (33 Teeth)-----	1
46		HUB, injection pump gear (Part of INJECTION PUMP)	
47		PLATE, gear retainer (Part of INJECTION PUMP)	
	21 512 R1	SCREW, hex-hd cap-----	3
	25 523 R1	NUT-----	2
48	675 609 C1	GASKET, injection pump mounting adaptor-----	1
49	670 364 C2	STUD, 5/16" x 1-7/8" (Used w/ADAPTER, 676 928 C1)----	2
50	680 481 C1	PIN, dowel-----	2
51	676 942 C92	ADAPTER, injection pump mounting (Aluminum)----- (Will work for gray iron ADAPTER, 676 928 C1) Composed of:	1
	NSS	ADAPTER-----	1
	680 481 C1	PIN-----	2
	19 968 R1	PIN-----	1
	9409 949	PLUG-----	1
	256 333 R1	STUD-----	2
	25 523 R1	NUT-----	2
	25 493 R1	SCREW, 1" hex-hd cap-----	1
	25 533 R1	SCREW, 2-1/2" hex-hd cap (Adapter to front cover)-	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	103 340	WASHER, 11/32" ID flat-----	1
	25 540 R1	WASHER, 5/16" hardened-----	3

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(DT-414 for H-65C and E-200)

(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



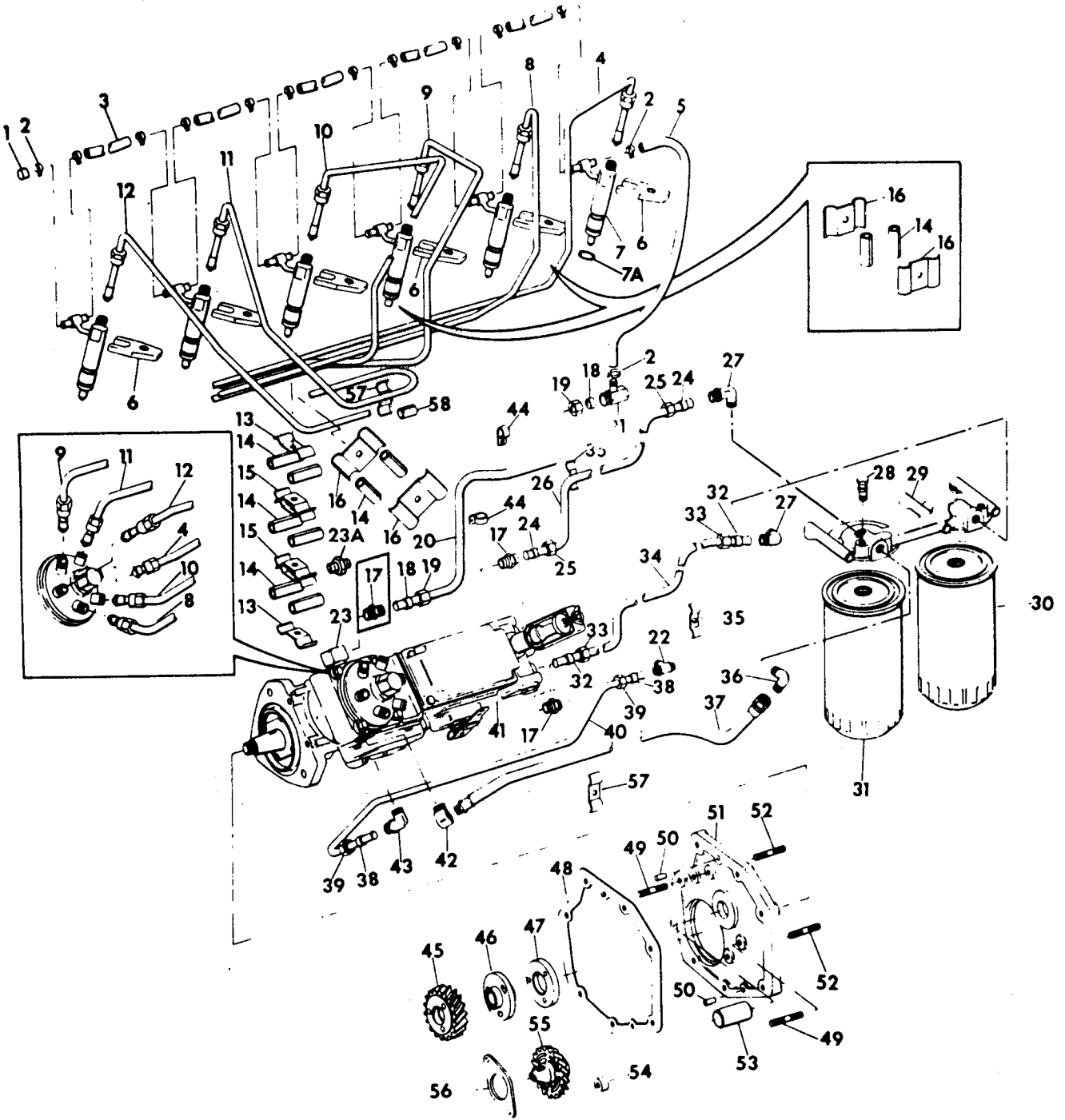
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(DT-414 for H-65C and E-200)			
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)			
52	256 333 R1	STUD, 3/8" x 1-3/4"-----	2
53	19 968 R1	PIN, dowel-----	1
54	676 936 C1	SPACER-----	2
55	676 938 C1	GEAR, tachometer drive-----	1
56	676 937 C1	PLATE, tachometer drive thrust-----	1
	273 767	NUT, conelock hex-----	2
	27 292 R1	SCREW, hex-hd cap-----	2
	302 861 R1	WASHER, flat (Copper)-----	2
57	684 899 C1	CLAMP, final filter to injection pump and No. 2 injection pipe-----	4
	19 592 R1	NUT-----	2
	25 752 R1	SCREW, slt-hd mach-----	1
58	258 079 C1	GROMMET, fuel pipe-----	2
	536 410 R1	GROMMET-----	2
	9409 949	PLUG, injection pump mounting adapter-----	1
	680 246 C1	HOSE, 3/16" ID x 120"-----	AR
	444 654	PLUG, pipe (Port closure lock)-----	1

FUEL SYSTEM

**INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued**
(DT-414 for H-65C and E-200)
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



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FUEL SYSTEM

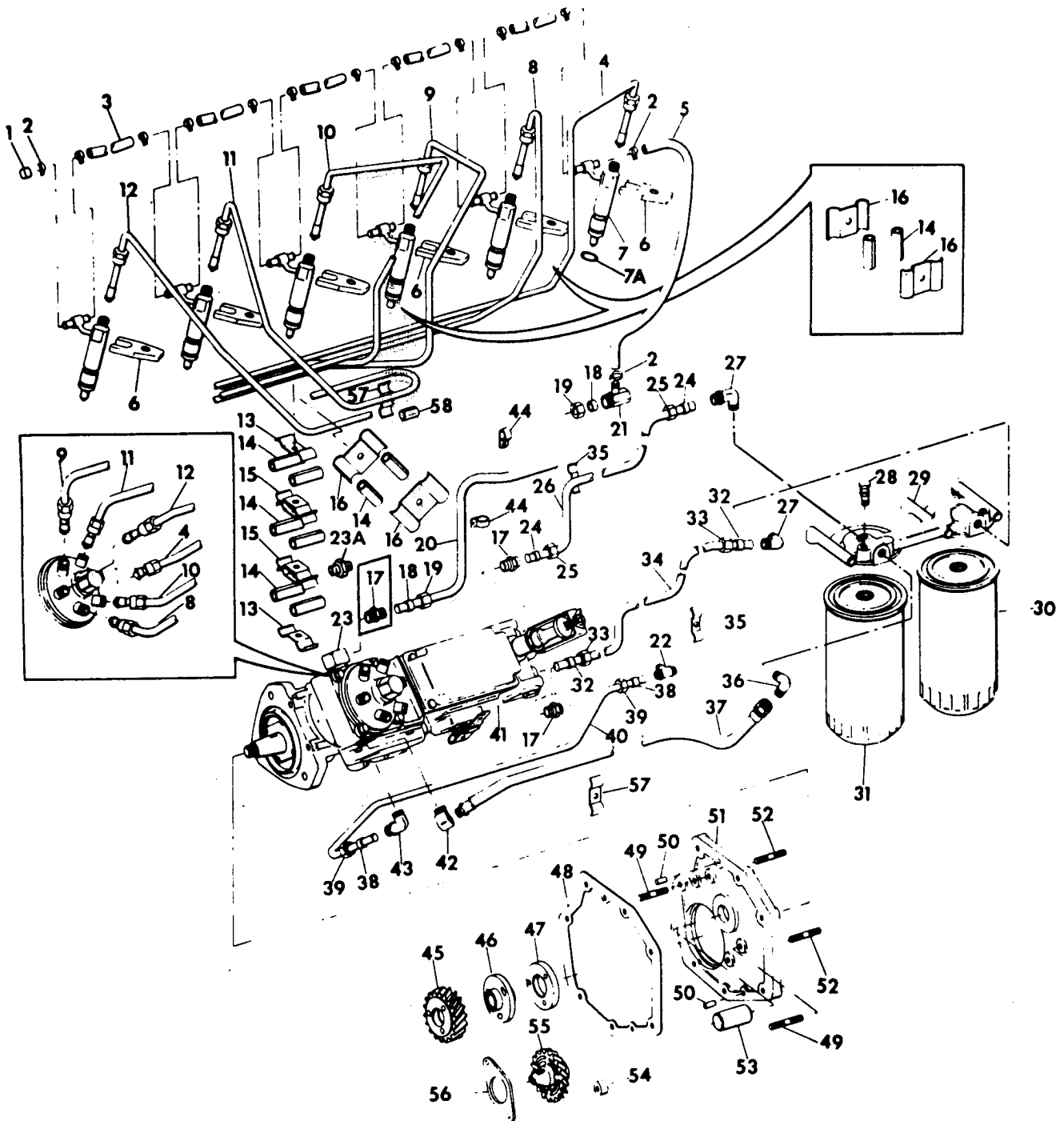
Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (DT-414 for H-65C and E-200) (DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)			
<u>ENGINE VARIATIONS</u>			
<u>(DT-414 for H-65C)</u>			
21	673 196 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	681 237 C91	PUMP ASSY, fuel injection (158 HP @ 2500 RPM) (See NOTE)-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
<u>(DT-414 for E-200)</u>			
21	680 120 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	681 252 C92	PUMP ASSY, fuel injection (145 HP @ 2500 RPM) (Will work for PUMP ASSY, 674 223 C91) (See NOTE)-	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
<u>(DT-466 for H-80B)</u>			
21	673 196 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	681 254 C92	PUMP ASSY, fuel injection (200 HP @ 2500 RPM) (Will work for PUMP ASSY, 674 379 C91) (See NOTE)-	1
	444 654	PLUG, pipe port closure lock-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
<u>(DT-466 for 412)</u>			
21	680 120 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	681 253 C92	PUMP ASSY, fuel injection (160 HP @ 2500 RPM)	
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(DT-414 for H-65C and E-200)

(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)



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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
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**INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued**
(DT-414 for H-65C and E-200)
(DT-466 for TD-15C, 175C, H-80B, 412, 433 and 444)

ENGINE VARIATIONS - Continued

(DT-466 for 433 & 444)

21	680 120 C1	TEE, fuel leak off-----	1
22	319 615 R1	ELBOW, 90 degrees 1/4" tube x 1/8" NPT flex (In crankcase)-----	1
41	674 285 C92	PUMP ASSY, fuel injection (200 HP @ 2500 RPM) (See NOTE)-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2

(DT-466 for TD-15C)

21	680 120 C1	TEE, fuel leak off-----	1
22	319 615 R1	ELBOW, 90 degrees 1/4" tube x 1/8" NPT flex (In crankcase)-----	1
41	681 251 C92	PUMP ASSY, fuel injection (153 HP @ 2500 RPM) (Will work for PUMP ASSY, 674 214 C91) (See NOTE)-	1
	444 654	PLUG, fitting-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2

(DT-466 for 175C)

21	680 120 C1	TEE, fuel leak off-----	1
22	319 615 R1	ELBOW, 90 degrees 1/4" tube x 1/8" NPT flex (In crankcase)-----	1
41	681 273 C92	PUMP ASSY, fuel injection (146 HP @ 2400 RPM) (Will work for PUMP ASSY, 681 273 C91) (See NOTE)-	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2

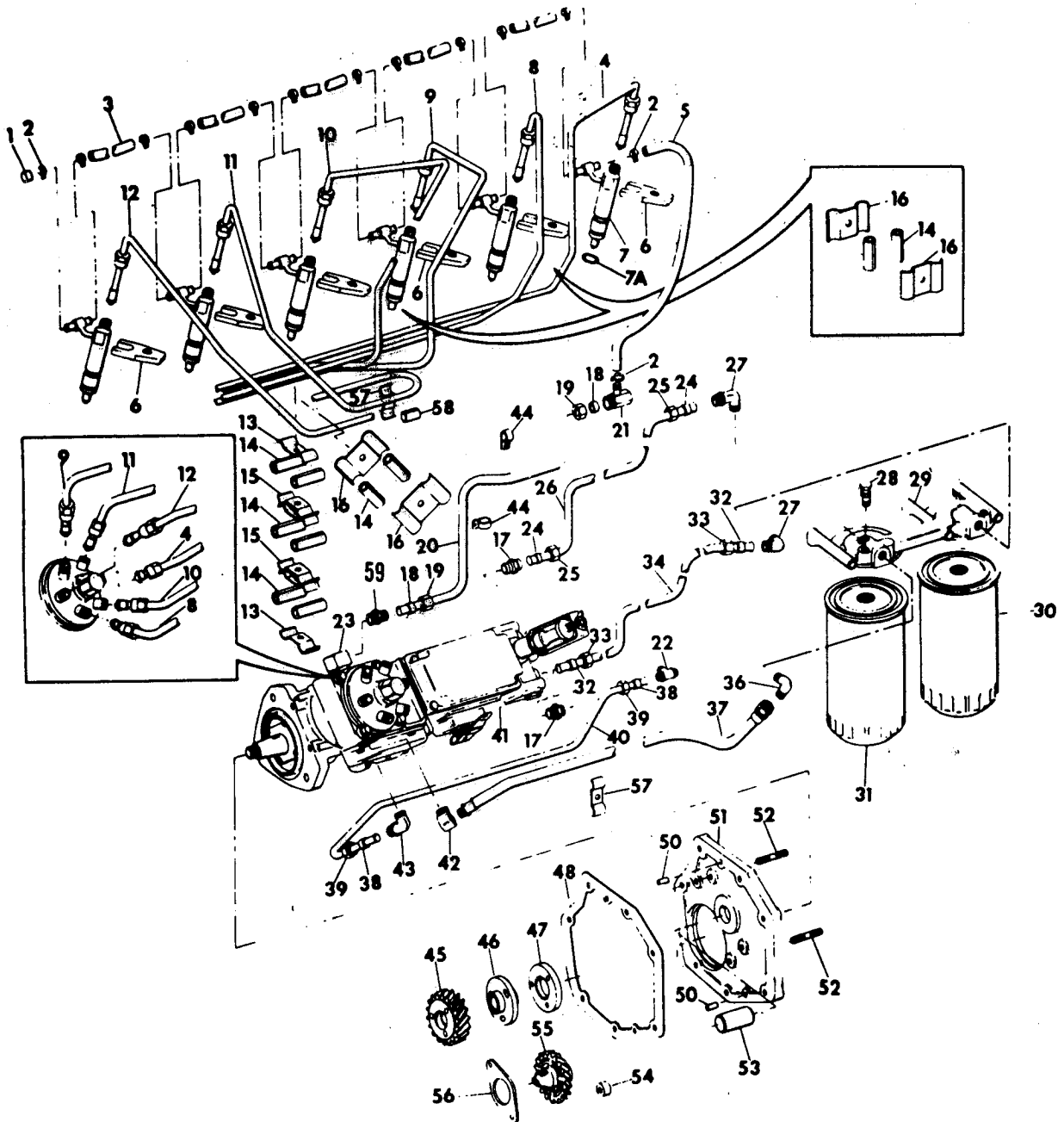
NOTE: Refer to Fuel Injection Pump Parts Catalog
PC-AB when ordering detail parts for
complete pump

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



CG-6331

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS			
(D-466 for TD-12)			
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)			
1	1802 452 C1	PLUG, fuel return (No. 1 injector)-----	1
2	1802 453 C1	CLIP, leak-off hose-----	1
3		HOSE, fuel return, (Injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
4		(See Individual Engine Variation)	
5		HOSE, No. 6 injector to leak-off tube, 3/16" ID x 11-1/2" cut from bulk HOSE, 680 246 C1-----	1
6	675 479 C2 691 105 C1	CRAB, injector nozzle (+)----- BOLT, injector crab (together with CRAB, 675 479 C2, replaces BOLT, 684 497 C1; WASHER, 675 677 C1; WASHER, 684 496 C1; and CRAB, 675 479 C1. DO NOT intermix the old with the new) (+)-----	6 6
7		NOZZLE and NOZZLE HOLDER ASSY, fuel injection (Refer to "Nozzle and Nozzle Holder")-----	6
7A	682 810 C1	GROMMET, injector dust seal-----	6
8		(See Individual Engine Variation)	
9		(See Individual Engine Variation)	
10		(See Individual Engine Variation)	
11		(See Individual Engine Variation)	
12		(See Individual Engine Variation)	
13	673 527 C1 23 232 R1 25 491 R1 27 616 R1	CLAMP, fuel line tube----- NUT----- SCREW, hex-hd cap----- WASHER, lock-----	2 1 1 1
14	258 079 C1	GROMMET, injection line-----	12
15	673 577 C1	CLAMP, duplex tube-----	2

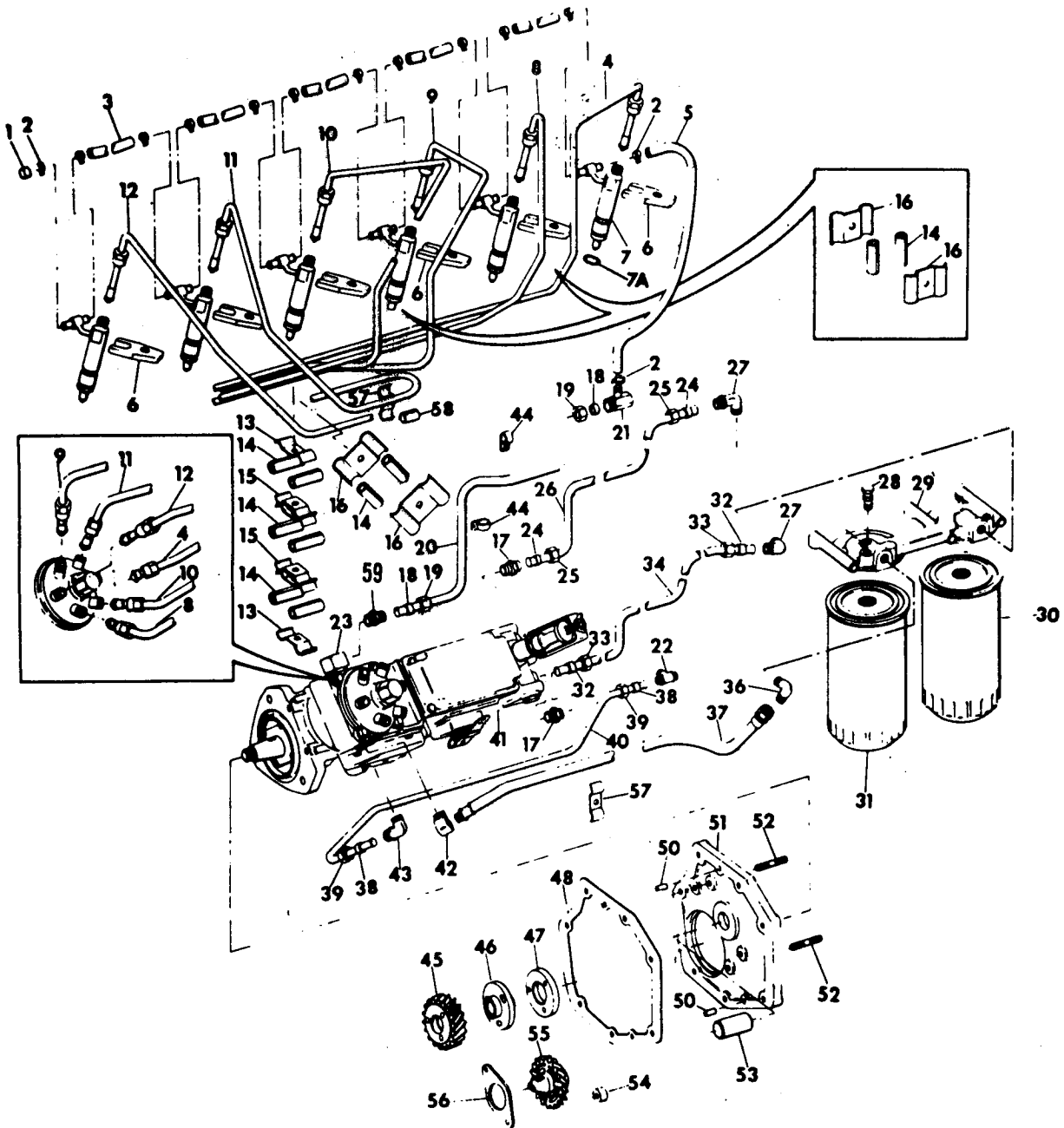
(+) Reference Service Bulletin 12H-81-01

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(D-466 for TD-12)			
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)			
16	673 527 C1	CLAMP, injection pipe-----	6
	684 548 C1	NUT (for all models except 412B)-----	3
	25 752 R1	SCREW, hex-hd cap (for all models except 412B)----	3
	113 957	SCREW, Slit-hd mach-----	1
	113 961	SCREW, Slit-hd mach-----	3
17	606 819 C1	CONNECTOR, primary pump inlet and outlet (in pump)---	2
18	265 204 R1	SLEEVE-----	2
19	265 205 R1	NUT-----	2
20	680 316 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return lower-----	1
21		(See Individual Engine Variation)	
22		(See Individual Engine Variation)	
23	444 040	ELBOW, fuel return tube-----	1
24	265 204 R1	SLEEVE-----	2
25	265 205 R1	NUT-----	2
26	684 077 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary pump to final filter-----	1
27	606 845 C1	ELBOW, 90 degrees NPT primary filter outlet and final filter inlet-----	2
28	39 677 DA	VALVE, bleeder-----	1
29	1802 964 C2	HEADER, filter-----	1
	25 784 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
30	625 627 C1	FILTER, primary fuel (%)-----	1

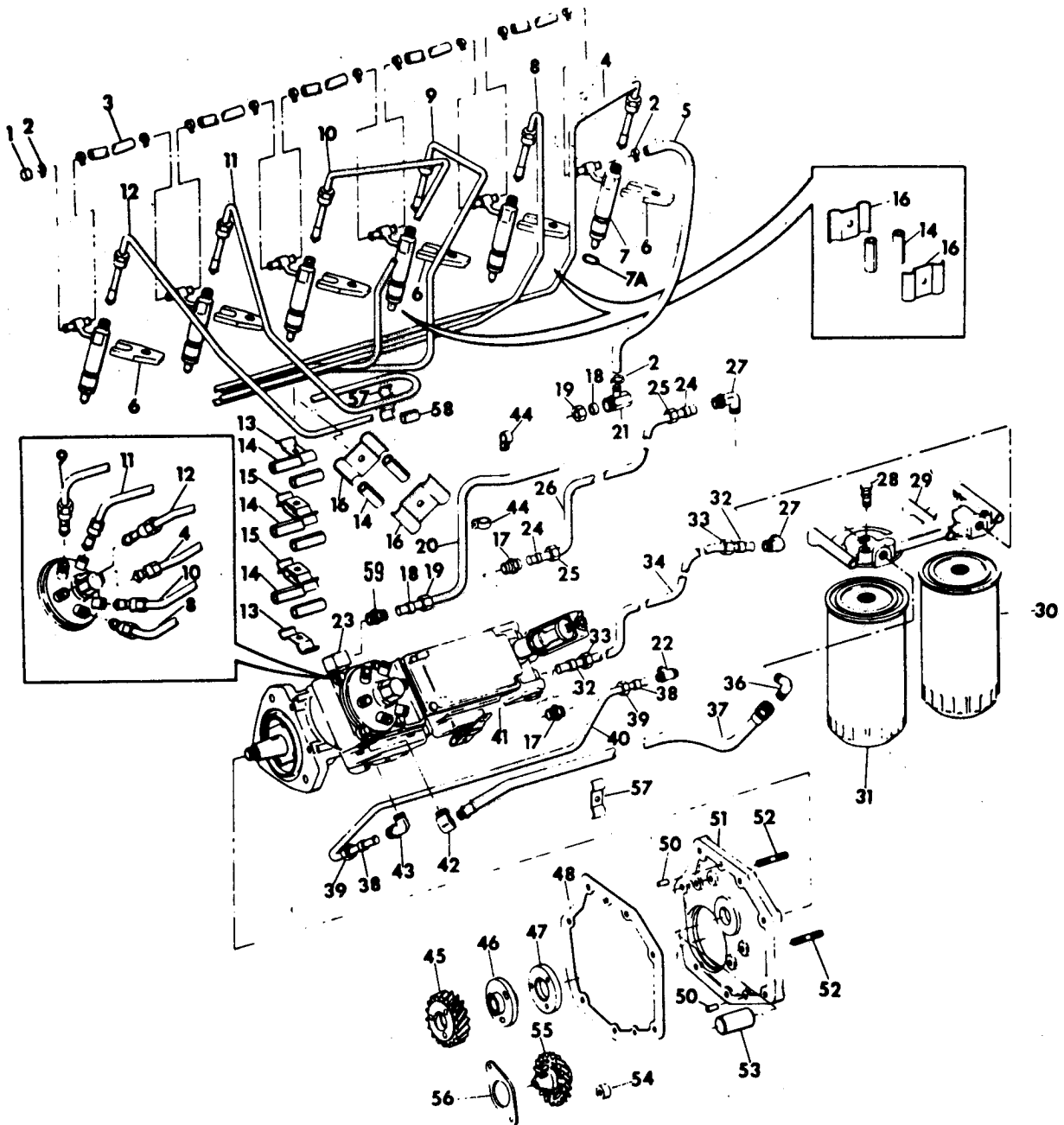
(%) - Not for units equipped w/water separator
ATTACHMENT. For units equipped w/water
separator ATTACHMENT, order FILTER, 702 255 C1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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FUEL SYSTEM

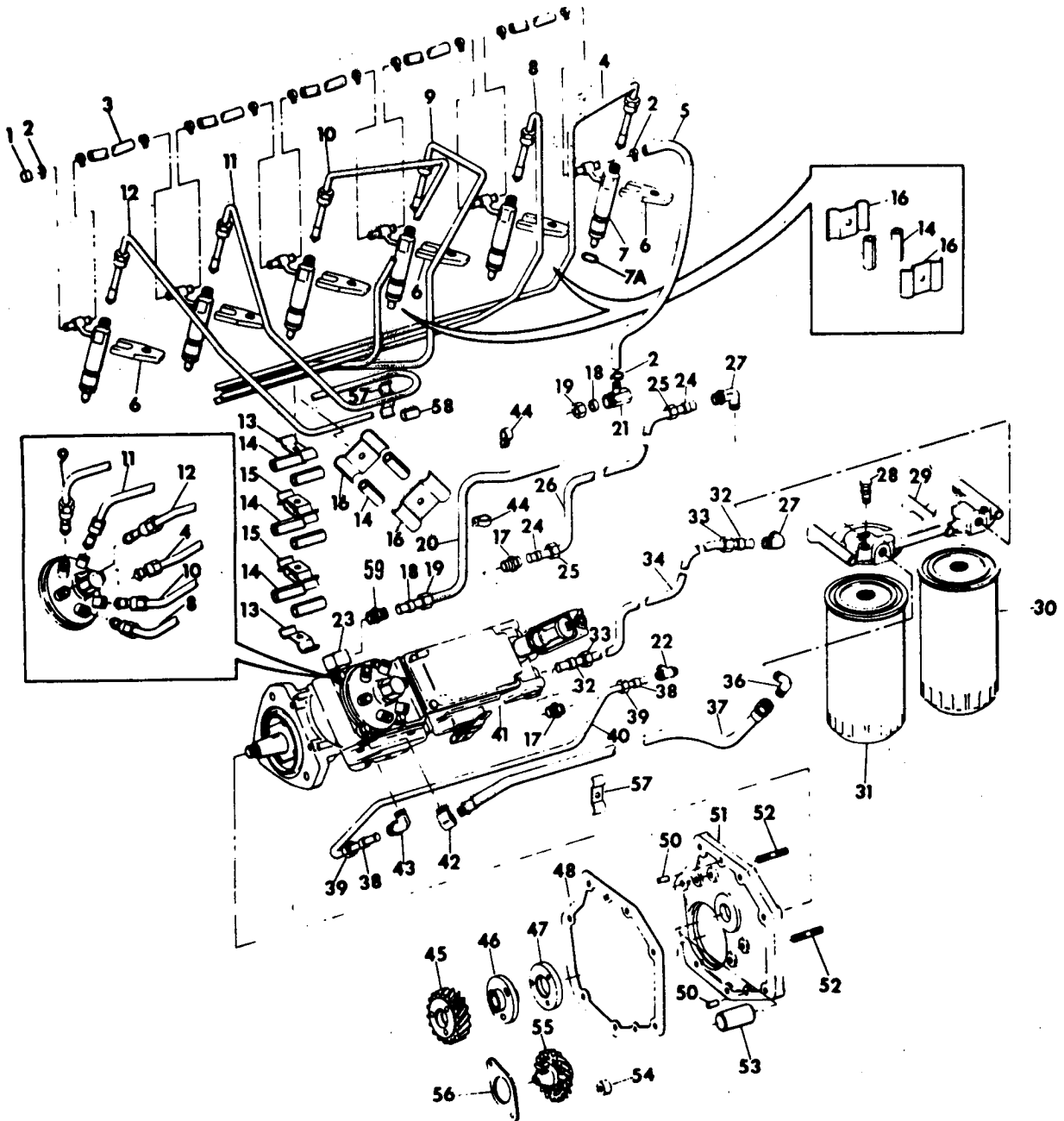
Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(D-466 for TD-12)			
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)			
31	672 603 C2	FILTER, final fuel-----	1
	9409 942	TEE (In filter header - final filter side)-----	1
	445 684	PLUG, pipe (In tee)-----	1
32	265 204 R1	SLEEVE-----	2
33	265 205 R1	NUT-----	2
34	684 075 C91	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, primary filter to primary pump-----	1
36	118 755	ELBOW, 90 degrees final filter outlet-----	1
37	688 190 C1	HOSE w/FITTINGS, final filter to injection pump----- (HOSE, 3/8" ID x 25" including FITTINGS, 5/8" 45° flare swivel fitting)	1
38	915 500 R1	SLEEVE-----	2
39	915 499 R1	NUT-----	2
40	673 165 C91	TUBE w/two SLEEVE, 915 500 R1, and two NUT, 915 499 R1, lube oil (Injection pump to crankcase)-----	1
41		(See Individual Engine Variation)	
42		ELBOW (Furnished as part of INJECTION PUMP, refer to Parts Catalog Form PC-AB)	
43	606 296 C1	ELBOW, flex lube oil inlet (In pump)-----	1
44	673 193 C1	CLIP, tee-----	3
	24 839 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, lock-----	2
45	676 922 C2	GEAR, injection pump (33 Teeth)-----	1
46		HUB, injection pump gear (Part of INJECTION PUMP)	
47		PLATE, gear retainer (Part of INJECTION PUMP)	
	21 512 R1	SCREW, hex-hd cap-----	3
	25 523 R1	NUT-----	2
48	675 609 C1	GASKET, injection pump mounting adaptor-----	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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FUEL SYSTEM

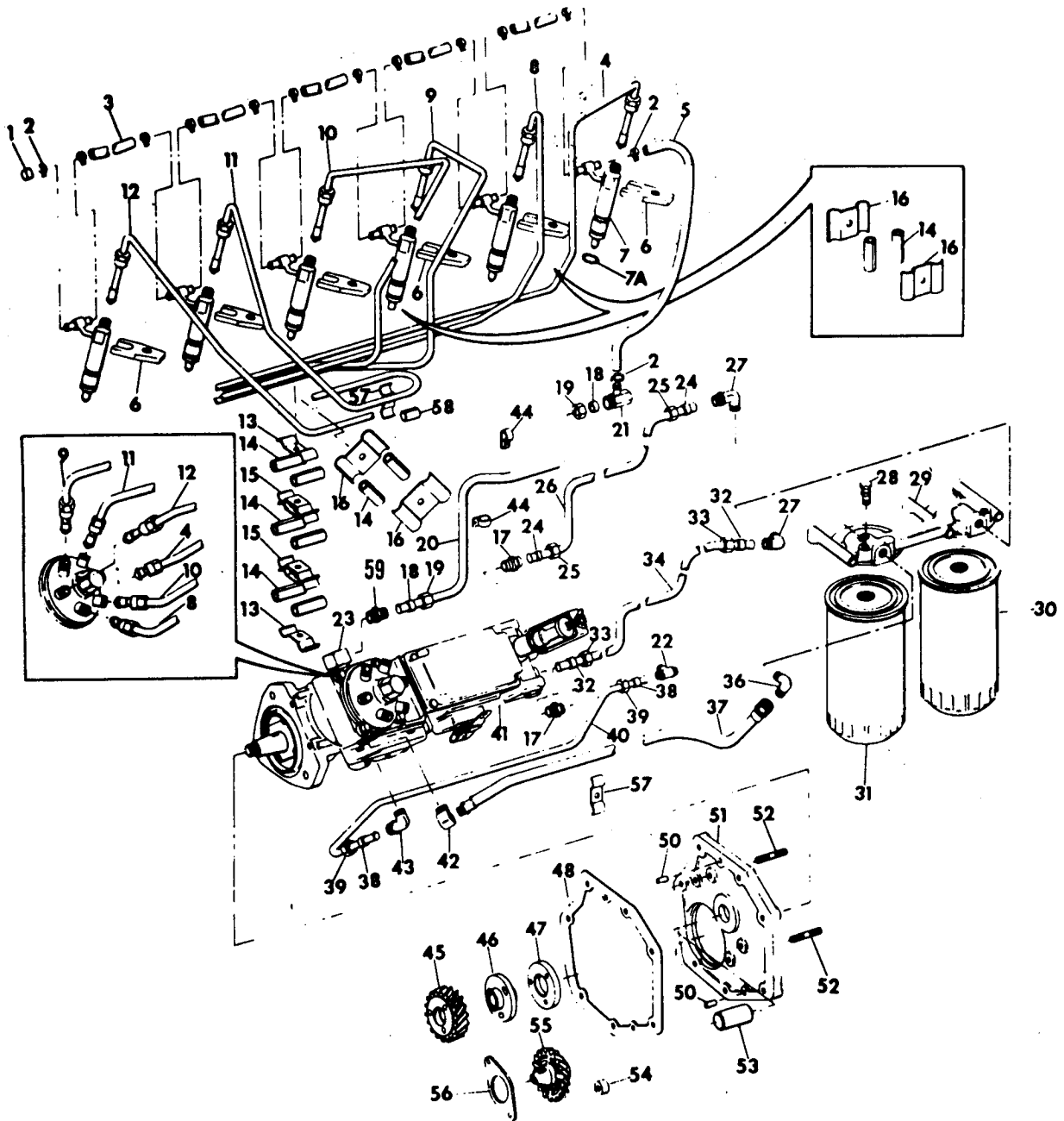
Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(D-466 for TD-12)			
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)			
50	680 481 C1	PIN, dowel-----	2
51	676 942 C92	ADAPTER, injection pump mounting (Aluminum)----- (All except TD-12) Composed of:	1
	NSS	ADAPTER-----	1
	680 481 C1	PIN-----	2
	19 968 R1	PIN-----	1
	9409 949	PLUG-----	1
	256 333 R1	STUD-----	2
51	689 146 C91	ADAPTER, injection pump mounting----- (For TD-12) Composed of:	1
	NSS	ADAPTER-----	1
	680 481 C1	PIN-----	2
	9409 949	PLUG-----	1
	256 333 R1	STUD-----	2
	25 523 R1	NUT-----	2
	27 292 R1	SCREW, 2-1/4" hex-hd cap-----	1
	25 533 R1	SCREW, 2-1/2" hex-hd cap (Adapter to front cover)-	2
	103 340	WASHER, 11/32" ID flat-----	1
	302 861 R1	WASHER, flat-----	2
52	256 333 R1	STUD, 3/8" x 1-3/4"-----	2
53	19 968 R1	PIN, dowel (Not used for TD-12)-----	1
54	676 936 C1	SPACER (Not used for TD-12)-----	2
55	676 938 C1	GEAR, tachometer drive (Not used for TD-12)-----	1
56	676 937 C1	PLATE, tachometer drive thrust (Not used for TD-12)--	1
	273 767	NUT, conelock hex-----	2
	27 292 R1	SCREW, hex-hd cap-----	2
	302 861 R1	WASHER, flat (Copper)-----	2
57	684 899 C1	CLAMP, final filter to injection pump and No. 2 injection pipe-----	4
	19 592 R1	NUT-----	2
	25 222 R1	SCREW, slt-hd mach-----	1
58	258 079 C1	GROMMET, fuel pipe-----	2
	536 410 R1	GROMMET-----	2

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(D-466 for TD-12)			
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)			
59	687 426 C1	FITTING, fuel return orifice - .040"-----	1
	680 246 C1	HOSE, 3/16" ID x 120"-----	AR
	444 654	PLUG, pipe (Port closure lock)-----	1
	606 296 C1	ELBOW, lube oil inlet - in pump (TD-12 only)-----	1

ENGINE VARIATIONS

(DT-466B for H-80B)

4	691 036 C1	PIPE, injection (Cylinder No. 6)-----	1
8	691 035 C1	PIPE, injection (Cylinder No. 5)-----	1
9	691 034 C1	PIPE, injection (Cylinder No. 4)-----	1
10	691 033 C1	PIPE, injection (Cylinder No. 3)-----	1
11	691 032 C1	PIPE, injection (Cylinder No. 2)-----	1
12	691 031 C1	PIPE, injection (Cylinder No. 1)-----	1
21	673 196 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	691 023 C91	PUMP ASSY, fuel injection (200 HP @ 2500 RPM)	
		(See NOTE)-----	1
	444 654	PLUG, pipe port closure cock-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1

(DT-466B for 412)

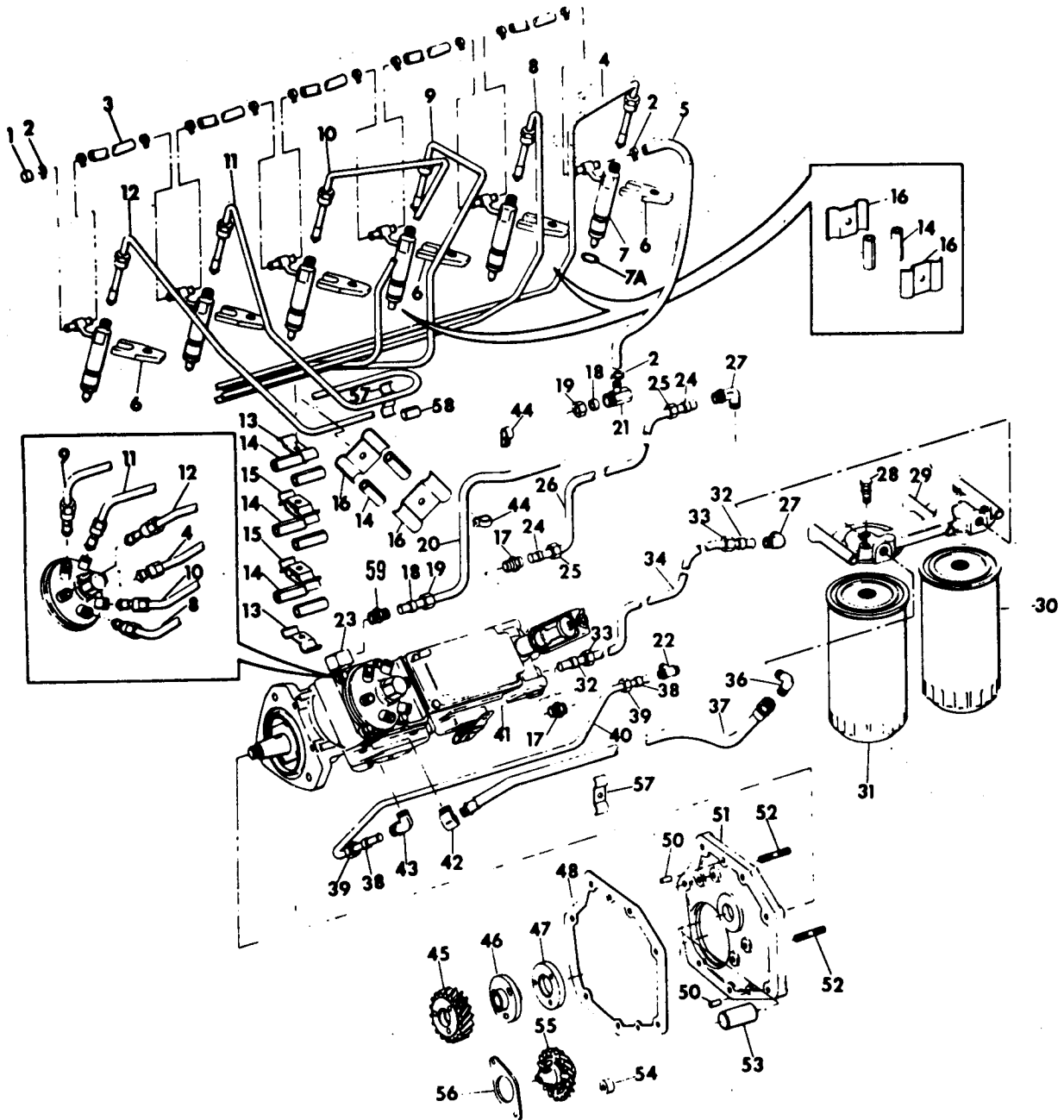
4	691 036 C1	PIPE, injection (Cylinder No. 6)-----	1
8	691 035 C1	PIPE, injection (Cylinder No. 5)-----	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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FUEL SYSTEM

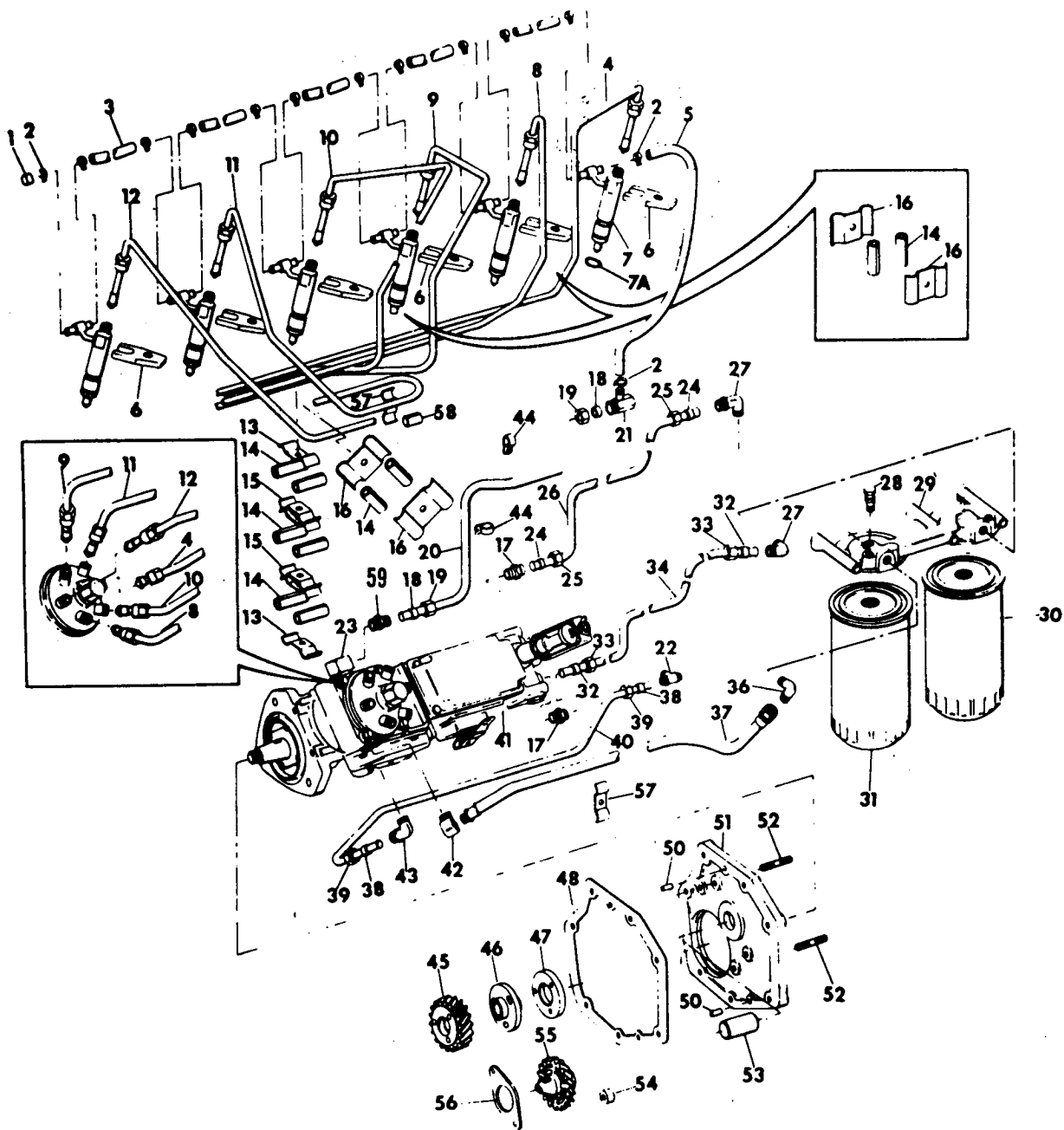
Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(D-466 for TD-12)			
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)			
<u>ENGINE VARIATIONS - Continued</u>			
<u>(DT-466B for 412 - Continued)</u>			
9	691 034 C1	PIPE, injection (Cylinder No. 4)-----	1
10	691 033 C1	PIPE, injection (Cylinder No. 3)-----	1
11	691 032 C1	PIPE, injection (Cylinder No. 2)-----	1
12	691 031 C1	PIPE, injection (Cylinder No. 1)-----	1
21	673 196 C1	TEE, fuel leak off (Replaces 680 120 C1)-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	691 021 C91	PUMP ASSY, fuel injection (160 HP @ 2500 RPM)	
		(See NOTE)-----	1
	444 654	PLUG, pipe port closure cock-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1
<u>(DT-466B for 412B)</u>			
4	688 856 C1	PIPE, injection (Cylinder No. 6)-----	1
8	688 855 C1	PIPE, injection (Cylinder No. 5)-----	1
9	688 854 C1	PIPE, injection (Cylinder No. 4)-----	1
10	688 853 C1	PIPE, injection (Cylinder No. 3)-----	1
11	688 852 C1	PIPE, injection (Cylinder No. 2)-----	1
12	688 851 C1	PIPE, injection (Cylinder No. 1)-----	1
21	673 196 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
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**INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued**
(D-466 for TD-12)
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)

ENGINE VARIATIONS - Continued

(DT-466B for 412B - Continued)

41	691 055 C91	PUMP ASSY, fuel injection (180 HP @ 2500 RPM) (See NOTE)-----	1
	444 654	PLUG, pipe port closure lock-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1

(DT-466B for 433 & 444B)

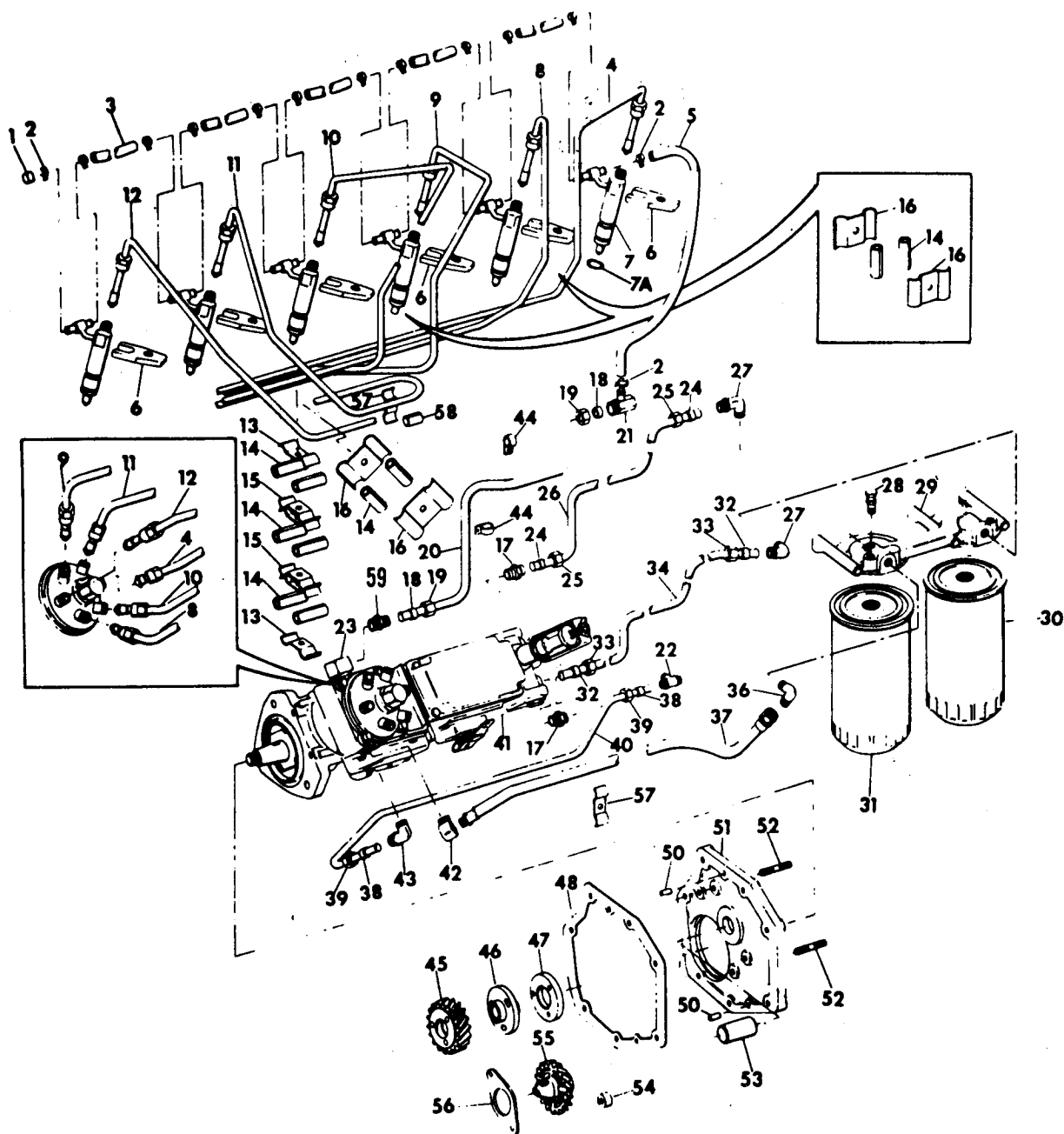
4	691 036 C1	PIPE, injection (Cylinder No. 6)-----	1
8	691 035 C1	PIPE, injection (Cylinder No. 5)-----	1
9	691 034 C1	PIPE, injection (Cylinder No. 4)-----	1
10	691 033 C1	PIPE, injection (Cylinder No. 3)-----	1
11	691 032 C1	PIPE, injection (Cylinder No. 2)-----	1
12	691 031 C1	PIPE, injection (Cylinder No. 1)-----	1
21	673 196 C1	TEE, fuel leak off-----	1
22	319 615 R1	ELBOW, 90 degrees 1/4" tube x 1/8" NPT flex (In crankcase)-----	1
41	691 022 C91	PUMP ASSY, fuel injection (200 HP @ 2500 RPM) (See NOTE)-----	1
	444 654	PLUG, pipe port closure lock-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
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**INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR,
FUEL FILTER AND RELATED PARTS - Continued**
(D-466 for TD-12)
(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)

ENGINE VARIATIONS - Continued

(DT-466B for 540)

4	688 856 C1	PIPE, injection (Cylinder No. 6)-----	1
8	688 855 C1	PIPE, injection (Cylinder No. 5)-----	1
9	688 854 C1	PIPE, injection (Cylinder No. 4)-----	1
10	688 853 C1	PIPE, injection (Cylinder No. 3)-----	1
11	688 852 C1	PIPE, injection (Cylinder No. 2)-----	1
12	688 851 C1	PIPE, injection (Cylinder No. 1)-----	1
21	673 196 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	691 023 C91	PUMP ASSY, fuel injection (200 HP @ 2500 RPM) (See NOTE)-----	1
	444 654	PLUG, pipe port closure lock-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1

(DT-466 and DT-466B for TD-12)

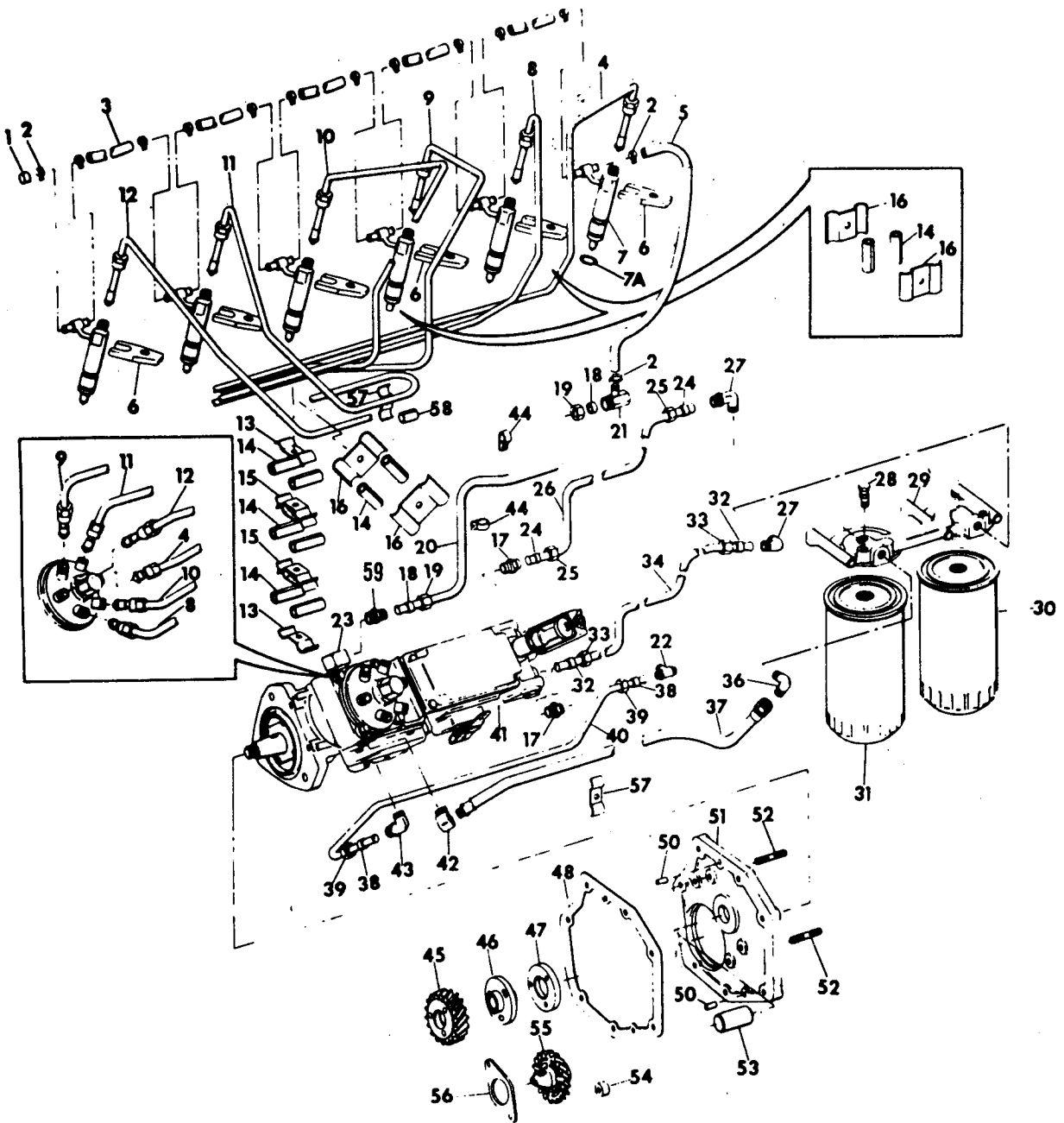
4	680 126 C1	PIPE, injection (Cylinder No. 6)-----	1
8	680 125 C1	PIPE, injection (Cylinder No. 5)-----	1
9	680 124 C1	PIPE, injection (Cylinder No. 4)-----	1
10	680 123 C1	PIPE, injection (Cylinder No. 3)-----	1
11	680 122 C1	PIPE, injection (Cylinder No. 2)-----	1
12	680 121 C1	PIPE, injection (Cylinder No. 1)-----	1

FUEL SYSTEM

INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued

(D-466 for TD-12)

(DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)



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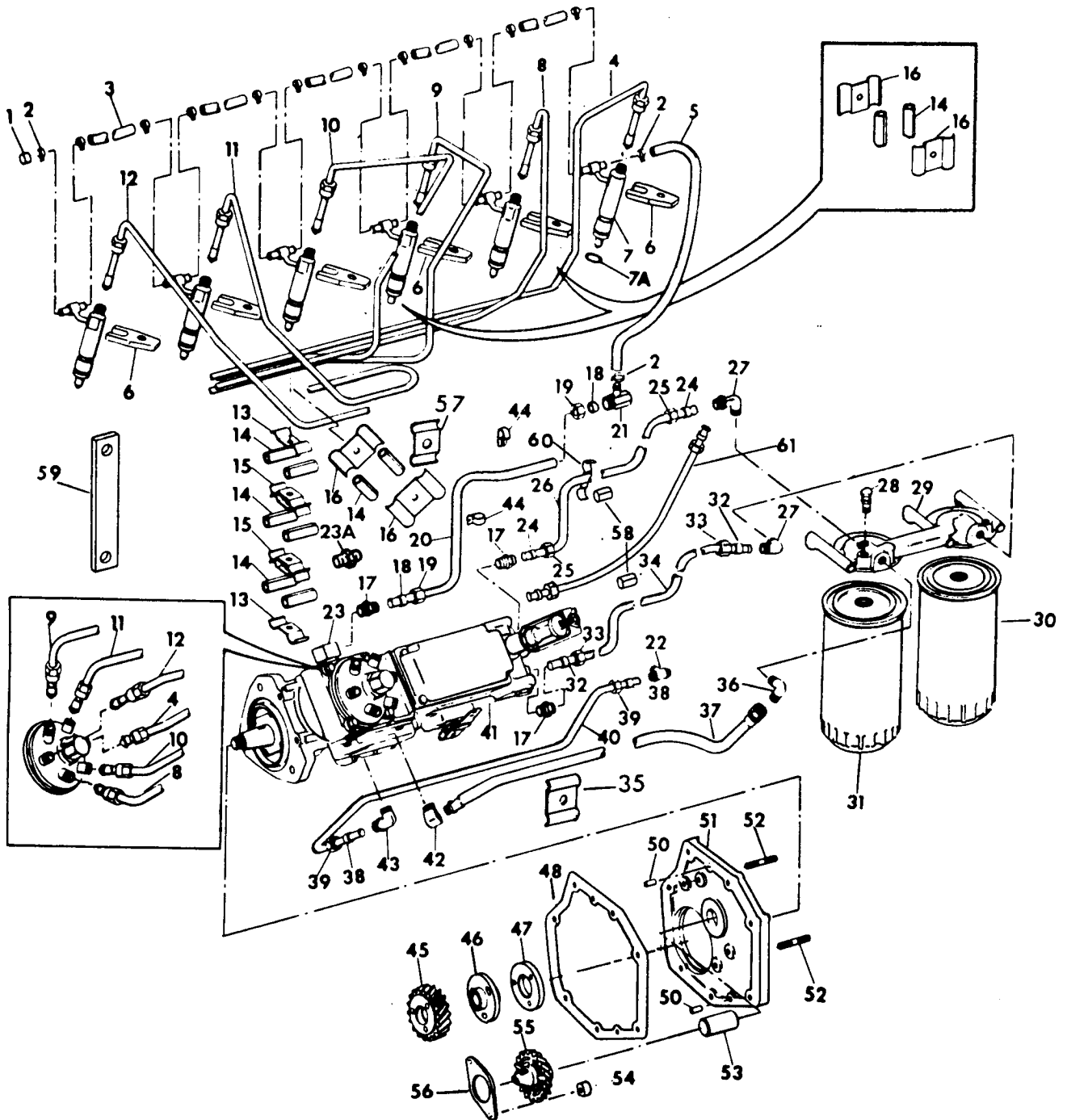
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (D-466 for TD-12) (DT-466B for TD-12, H-80B, 412, 412B, 433B, 444B and 540)			
21	680 120 C1	TEE, fuel leak off-----	1
22	610 713 C1	TEE, lube oil outlet (In crankcase)-----	1
41	684 720 C91	PUMP ASSY, fuel injection (125 HP @ 2500 RPM) (See NOTE)-----	1
	444 654	PLUG, pipe port closure lock-----	1
	678 026 C1	WIRE, lock-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1

NOTE: Refer to Fuel Injection Pump Parts Catalog
 PC-AB when ordering detail parts for
 complete pump

FUEL SYSTEM

INJECTION PUMP PIPING, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER AND RELATED PARTS
(Galion Applications)



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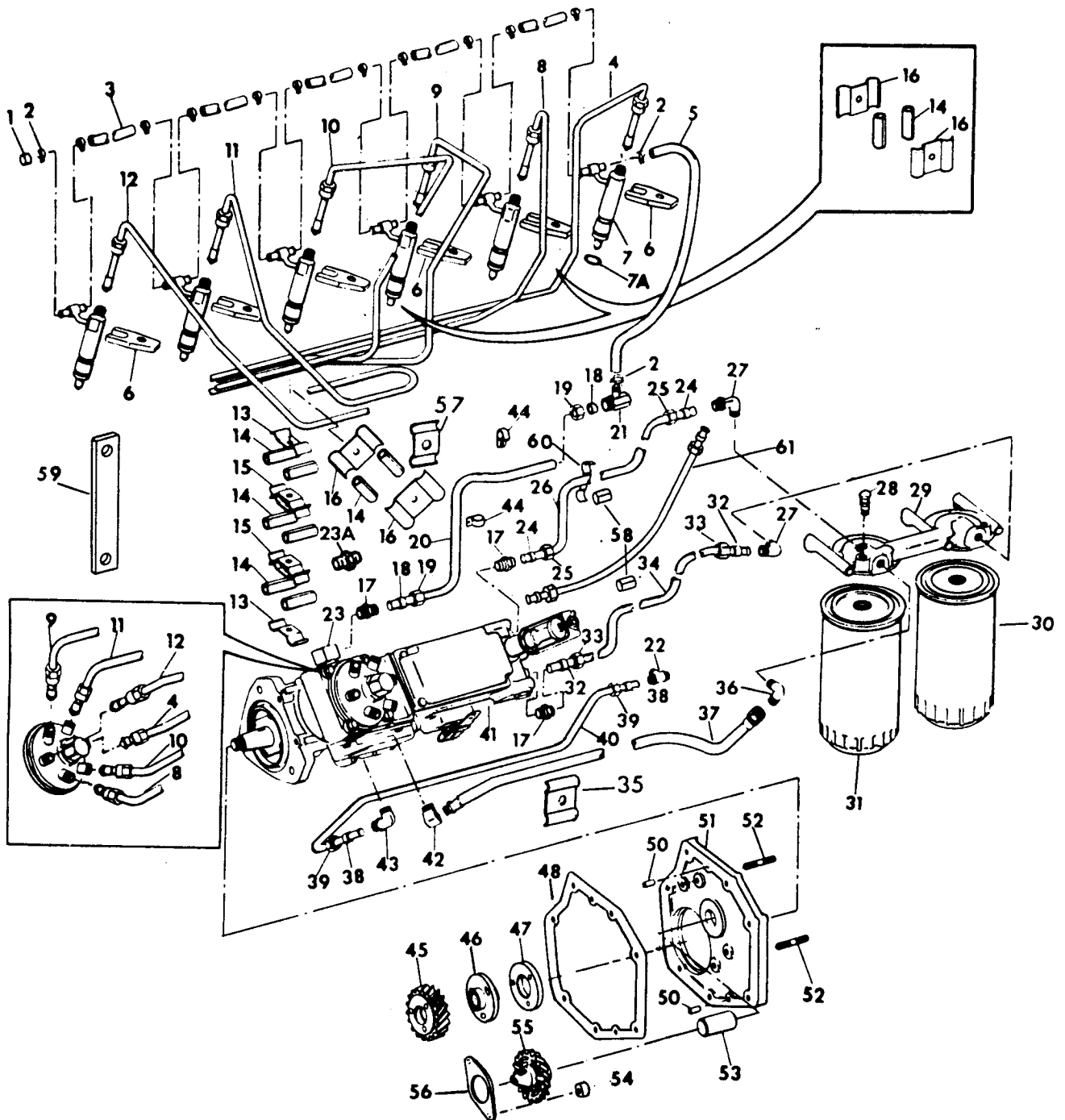
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS (Galion Applications)			
1	1802 452 C1	PLUG, fuel return (No. 1 injector)-----	1
2	1802 453 C1	CLIP, leak-off hose-----	13
3		HOSE, fuel return, (Injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
4	680 126 C1	PIPE, injection (Cylinder No. 6)----- DT-466 -75000 and below D-466 - (All applications except 450E, 500E & A400E Graders) 501 and up	1
4	691 036 C1	PIPE, injection (Cylinder No. 6)----- DT-466B -75001 and up D-466 - for 450E, 500E & A400E Graders	1
5		HOSE, No. 6 injector to leak-off tube, 3/16" ID x 11-1/2" cut from bulk HOSE, 680 246 C1-----	1
6	675 479 C1	CRAB, injector nozzle (+)-----	6
	691 105 C1	BOLT, injector crab (together w/CRAB, 675 479 C2, replaces BOLT, 684 497 C1; WASHER, 675 677 C1-----	6
	684 496 C1	WASHER, lock (used w/BOLT, 684 497 C1 (+)-----	6
7		NOZZLE and NOZZLE HOLDER ASSY, fuel injection (Refer to "Nozzle and Nozzle Holder")-----	6
7A	682 810 C1	GROMMET, injector dust seal-----	6
8	680 125 C1	PIPE, injection (Cylinder No. 5)----- DT-466 -75000 and below D-466 - (All applications except 450E, 500E & A400E Graders) 501 and up	1
8	691 035 C1	PIPE, injection (Cylinder No. 5)----- DT-466B -75001 and up D-466 - for 450E, 500E & A400E Graders	1
9	680 124 C1	PIPE, injection (Cylinder No. 4)----- DT-466 -75000 and below D-466 - (All applications except 450E, 500E & A400E Graders) 501 and up	1

(+) Reference Service Bulletin 12H-81-01

FUEL SYSTEM

INJECTION PUMP PIPING, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER AND RELATED PARTS - Continued
(Galion Applications)



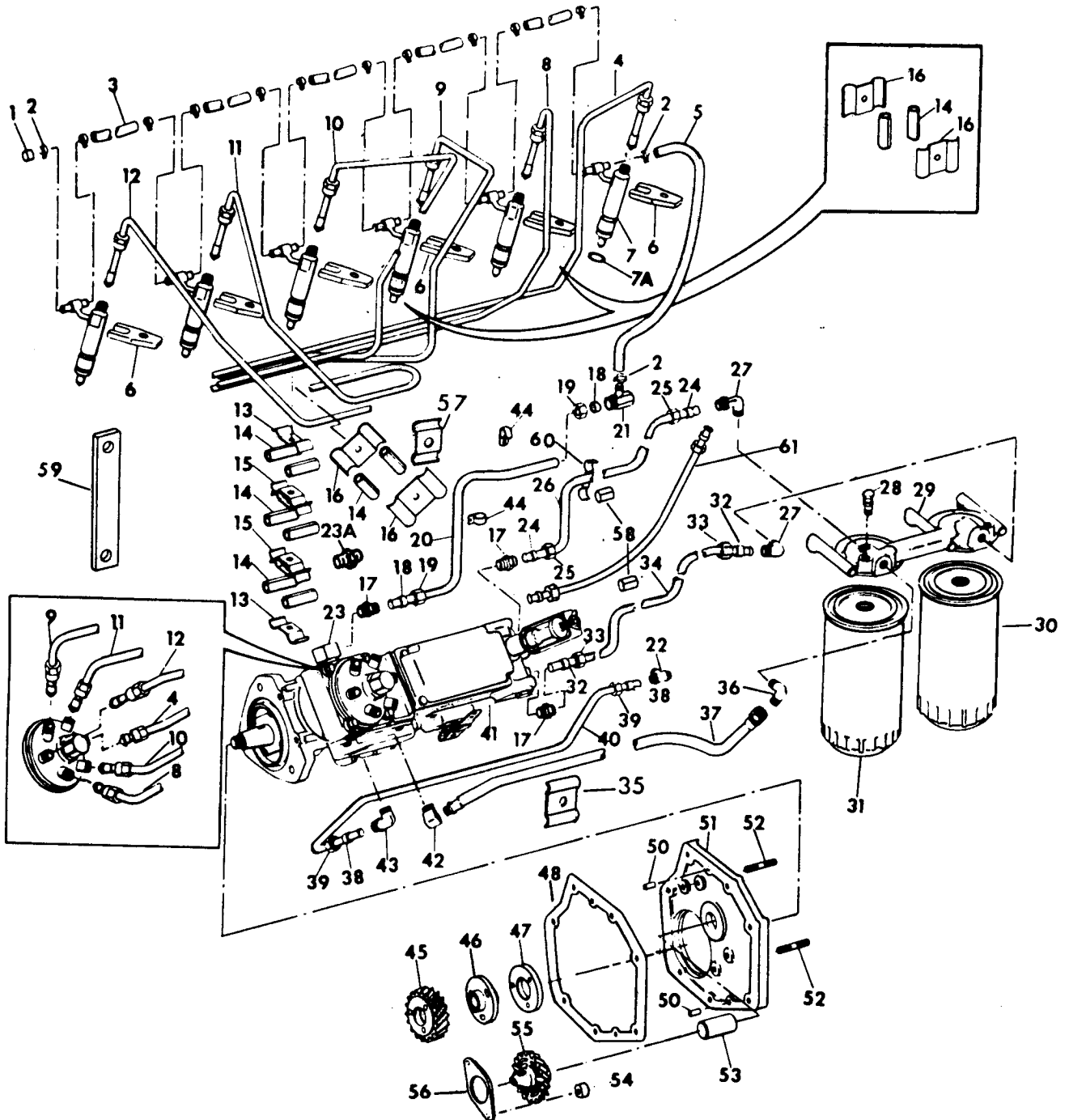
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (Galion Applications)			
9	691 034 C1	PIPE, injection (Cylinder No. 4)----- DT-466B -75001 and up D-466 - for 450E, 500E & A400E Graders	1
10	680 123 C1	PIPE, injection (Cylinder No. 3)----- DT-466 -75000 and below D-466 - (All applications except 450E, 500E & A400E Graders) 501 and up	1
10	691 033 C1	PIPE, injection (Cylinder No. 3)----- DT-466B -75001 and up D-466 - for 450E, 500E & A400E Graders	1
11	680 122 C1	PIPE, injection (Cylinder No. 2)----- DT-466 -75000 and below D-466 - (All applications except 450E, 500E & A400E Graders) 501 and up	1
11	691 032 C1	PIPE, injection (Cylinder No. 2)----- DT-414B - 140001 and up DT-466B -75001 and up D-466 - for 450E, 500E & A400E Graders	1
	684 899 C1	CLAMP primary filter to No. 2 injector pipe-----	4
12	680 121 C1	PIPE, injection (Cylinder No. 1)----- DT-466 -75000 and below D-466 - (All applications except 450E, 500E & A400E Graders) 501 and up	1
12	691 031 C1	PIPE, injection (Cylinder No. 1)----- DT-466B -75001 and up D-466 - for 450E, 500E & A400E Graders	1
13	673 527 C1	CLAMP, fuel line tube-----	2
	23 232 R1	NUT-----	1
	25 491 R1	BOLT, 1/4-20 x 2-----	1
	27 616 R1	WASHER, 1/4 hard-----	1
14	258 079 C1	GROMMET, injection line-----	12
15	673 577 C1	CLAMP, duplex tube-----	2

FUEL SYSTEM

INJECTION PUMP PIPING, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER AND RELATED PARTS - Continued
(Galion Applications)



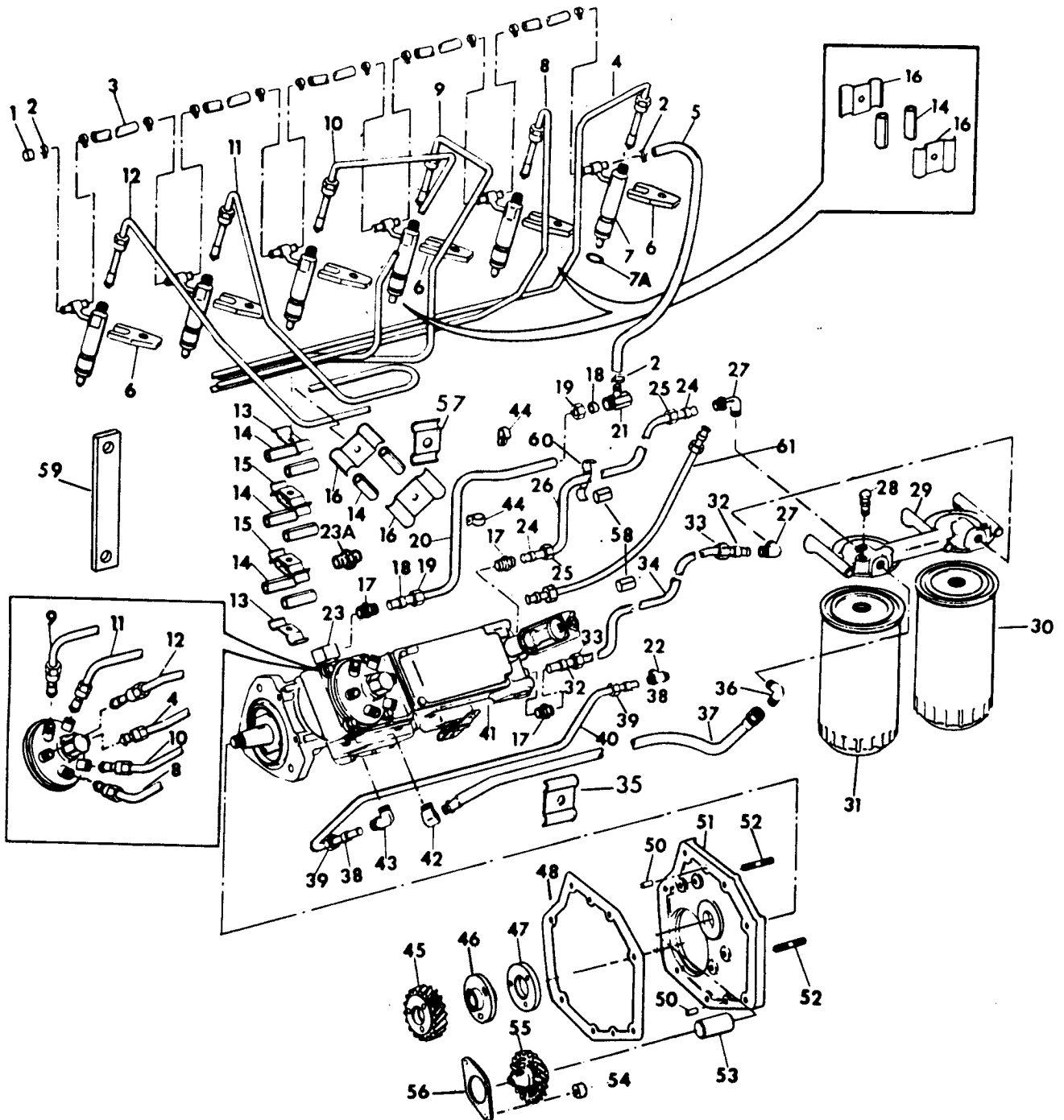
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued			
(Galion Applications)			
16	673 527 C1	CLAMP, injection pipe-----	6
	684 548 C1	NUT-----	3
	25 752 R1	SCREW, 1/4-20 x 1/2, hex-hd cap-----	3
17	606 819 C1	CONNECTOR, primary pump inlet, outlet and fuel return line (in pump)	
		D-466 - 31767 and below-----	3
		DT-466 - 33667 and below-----	3
		D-466 - 31768 and up-----	2
		DT-466 - 33668 and up-----	2
		DT-466B - 75001 and up-----	2
18	265 204 R1	SLEEVE-----	2
19	265 205 R1	NUT-----	2
20	680 316 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return lower-----	1
21	673 196 C1	TEE, fuel leak off----- (LQ-158, LQ-158A, LQ-167, LQ-167A, 450E, 500E, 550E, 560E & A-400E Graders)	1
21	680 120 C1	TEE, fuel leak off----- (LQ-157, LQ-157A, LQ-161A, LQ-161B, LQ-165, LQ-165A, LQ-166A, LQ-166B, LQ-168 & LQ-170)	1
22	319 615 R1	ELBOW, 90 degrees 1/4" tube x 1/8" NPT flex (in crankcase)-----	1
23		VALVE, return (Valve is no longer furnished as part of fuel injection pump) (Order FITTING, 687 426 C1 and ELBOW, 444 040) D-466 - 31767 and below DT-466 - 33667 and below	
23	444 040	ELBOW, fuel return----- D-466 - 31768 and up DT-466 - 33668 and up DT-466B - 75001 and up	1

FUEL SYSTEM

INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (Galion Applications)



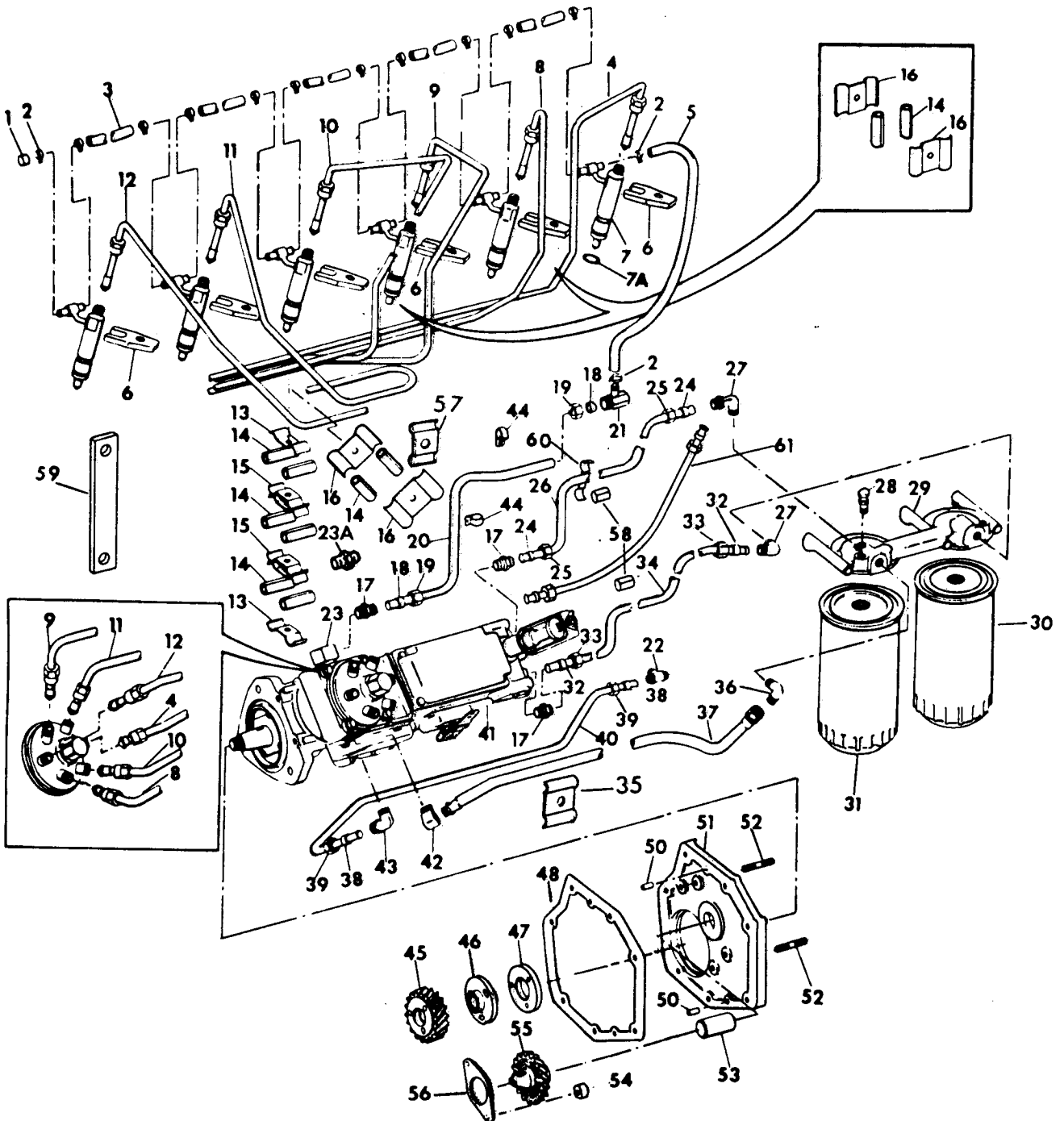
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (Galion Applications)			
23A	687 426 C1	FITTING, fuel return orifice - .040"----- D-466 - 31768 and up DT-466 - 33668 and up DT-466B - 75001 and up	1
24	265 204 R1	SLEEVE-----	2
25	265 205 R1	NUT-----	2
26	684 077 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary pump to final filter-----	1
27	606 845 C1	ELBOW, 90 degrees NPT primary filter outlet and final filter inlet-----	2
28	39 677 DA	VALVE, bleeder----- D-466 - 54566 and below DT-466, DT-466B - 146514 and below	1
29	1802 964 C2	HEADER, fuel filter-----	1
	25 784 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
30	625 627 C1	FILTER, primary fuel-----	1
31	672 603 C2	FILTER, final fuel-----	1
	9409 942	TEE (In filter header - final filter side)	
	445 684	PLUG, pipe (In tee)	
32	265 204 R1	SLEEVE-----	2
33	265 205 R1	NUT-----	2
34	684 075 C91	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, primary filter to primary pump-----	1
35	673 527 C1	CLAMP, primary pump to final filter and primary filter to primary pump tube-----	2
	258 079 C1	GROMMET, fuel pipe-----	2
	23 232 R1	NUT, speed-----	1
	25 491 R1	SCREW, slt-hd mach-----	1
	27 616 R1	WASHER, 1/4 hardened-----	1
36	9402 838	ELBOW, 9/16 x 90 degrees final filter outlet----- # and below	1

FUEL SYSTEM

INJECTION PUMP PIPING, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER AND RELATED PARTS - Continued
(Galion Applications)



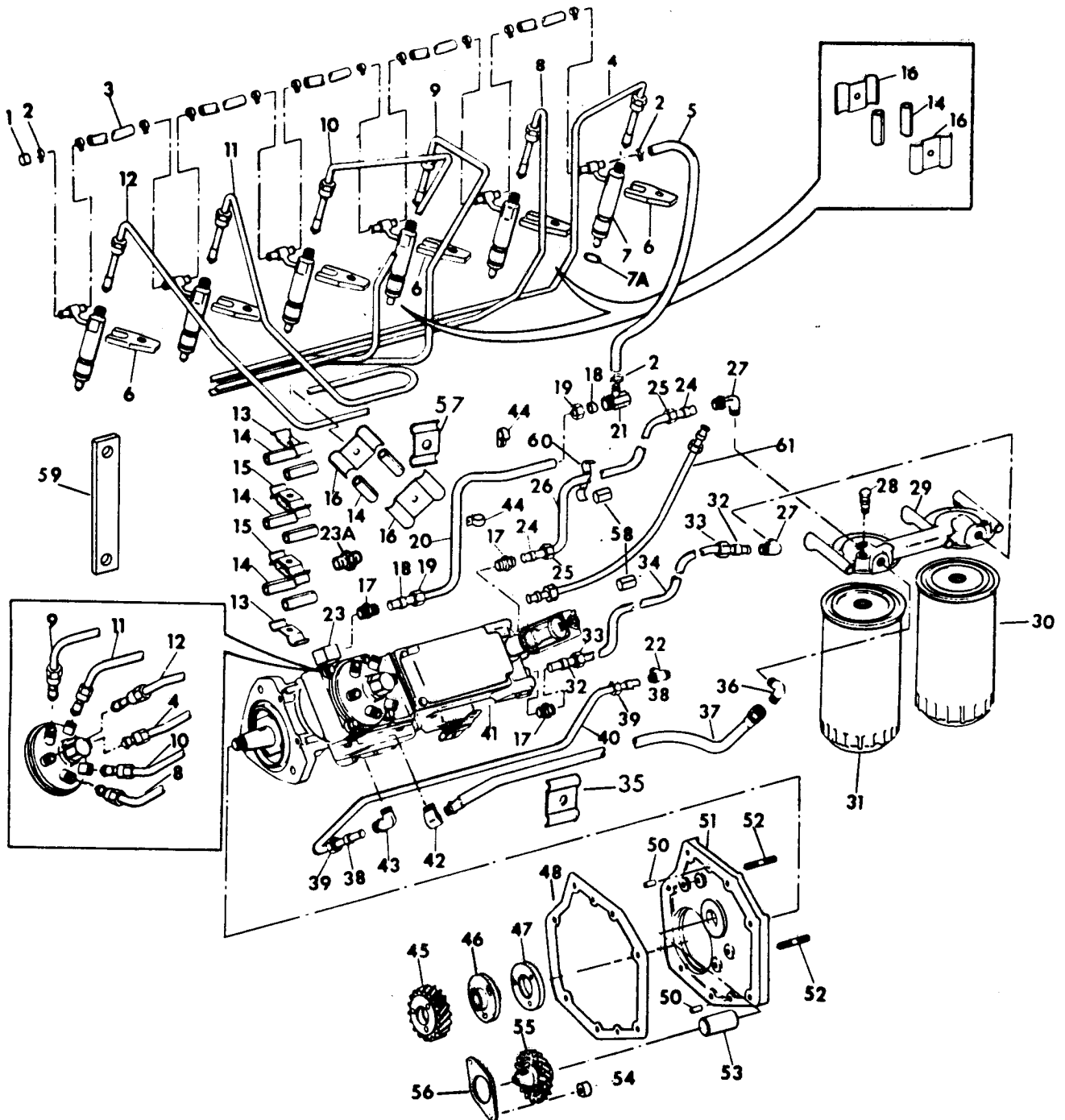
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (Galion Applications)			
36	118 755	ELBOW, 5/8 x 90 degrees final filter outlet----- # and up	1
37	684 167 C1	HOSE w/FITTINGS, final filter to injection pump----- (HOSE, 3/8" ID x 25" including FITTINGS, 9/16" female flare swivel nut - # and below)	1
37	688 190 C1	HOSE w/FITTINGS, final filter to injection pump----- (HOSE, 3/8" ID x 25" including FITTINGS, 5/8" female flare swivel nut - # and up)	1
38	915 500 R1	SLEEVE-----	2
39	915 499 R1	NUT-----	2
40	673 165 C91	TUBE w/two SLEEVE, 915 500 R1, and two NUT, 915 499 R1, lube oil (Injection pump to crankcase)-----	1 1
41		PUMP ASSY, fuel injection (Refer to "Fuel Injection Pump" for application data and detail parts)-----	1
	25 523 R1	NUT, 3/8-24-----	2
	25 544 R1	WASHER, 3/8" hardened-----	2
	25 232 R1	SCREW, 5/16-18 x 2"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1
42		ELBOW, fuel inlet (Furnished as part of PUMP)	
43	606 296 C1	ELBOW, flex lube oil inlet (In pump)-----	1
44	673 193 C1	CLIP, tee-----	3
	24 839 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, lock-----	2
45	676 922 C2	GEAR, injection pump (33 Teeth)-----	1
	24 840 R1	BOLT, 3/8-16 x 1", hex-hd-----	3
	25 544 R1	WASHER, 3/8" hardened-----	3
	25 750 R1	BOLT, 5/16-18 x 1-3/4"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1
46		HUB, injection pump gear (Part of INJECTION PUMP)	
47		PLATE, gear retainer (Part of INJECTION PUMP)	
	21 512 R1	SCREW, hex-hd cap-----	3
	25 523 R1	NUT, 3/8-24-----	2

FUEL SYSTEM

INJECTION PUMP PIPING, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER AND RELATED PARTS - Continued
(Galion Applications)



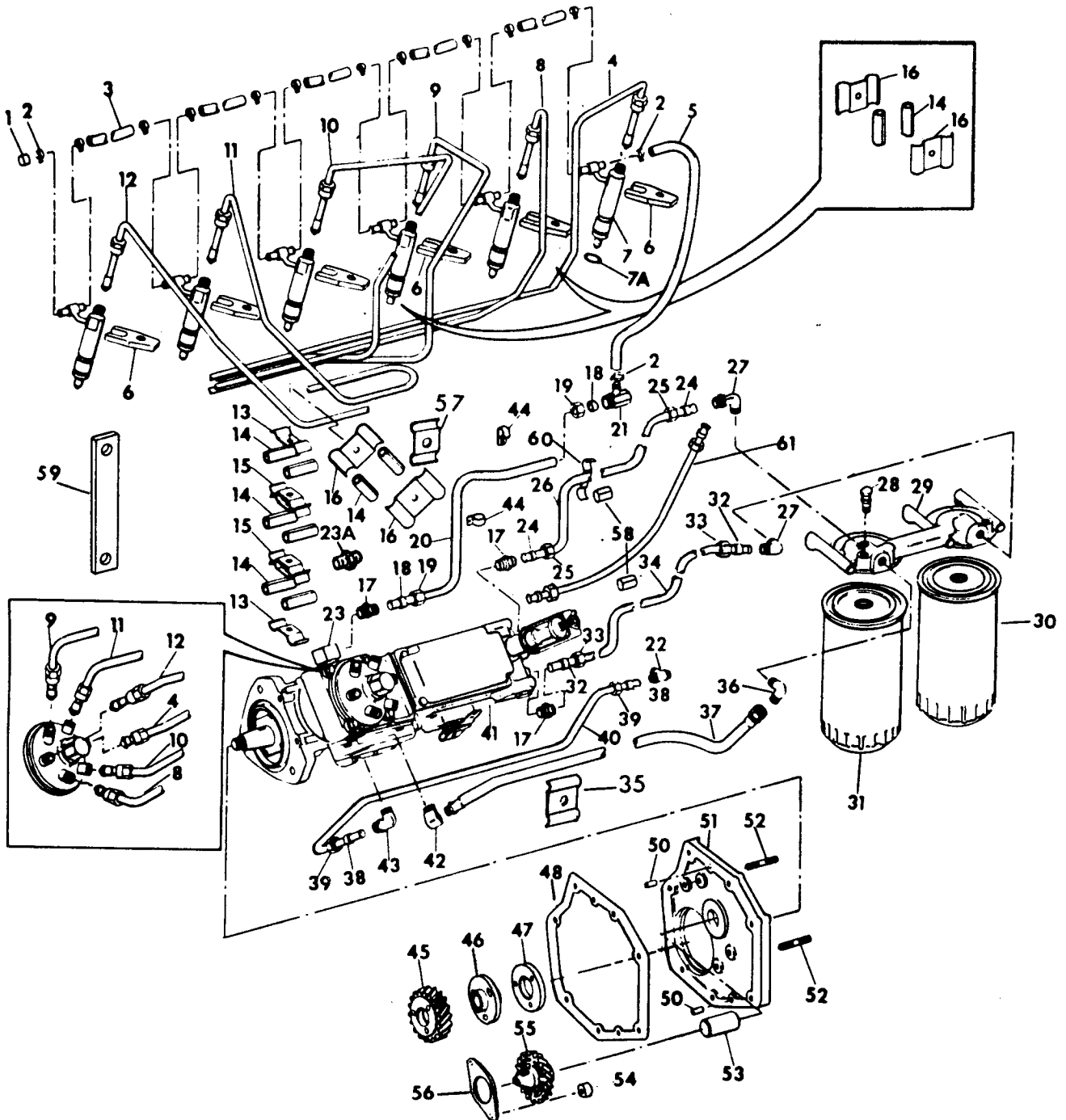
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (Galion Applications)			
48	675 609 C1	GASKET, injection pump mounting adaptor-----	1
49	670 364 C2	STUD (Used w/ADAPTER, 676 928 C1)-----	2
50	680 481 C1	PIN, dowel-----	2
51	676 942 C92	ADAPTER, injection pump mounting (Aluminum)----- (Will work for gray iron ADAPTER, 676 928 C1) Composed of:	1
	NS	ADAPTER-----	1
	680 481 C1	PIN-----	2
	19 968 R1	PIN-----	1
	9409 949	PLUG-----	1
	256 333 R1	STUD-----	2
	25 533 R1	SCREW, 2-1/2" hex-hd cap (Adapter to front cover)-	2
	103 340	WASHER, 11/32" ID flat-----	2
	27 292 R1	SCREW, 2-1/4" hex-hd cap-----	2
	302 861 R1	WASHER, flat (Copper)-----	2
52	256 333 R1	STUD (ADAPTER ASSY, 676 942 C92)-----	2
53	19 968 R1	PIN, dowel (ADAPTER ASSY, 676 942 C92)-----	1
54	676 936 C1	SPACER-----	2
55	676 938 C1	GEAR, tachometer drive-----	1
56	676 937 C1	PLATE, tachometer drive thrust-----	1
	273 767	NUT, conelock hex-----	2
	27 292 R1	SCREW, hex-hd cap-----	2
	302 861 R1	WASHER, flat (Copper)-----	2
57	672 527 C1	CLAMP, fuel line-----	4
	19 592 R1	NUT-----	2
	25 752 R1	SCREW, slt-hd mach-----	1
58		NOT USED	
59		NOT USED	
60		NOT USED	
61		NOT USED	

FUEL SYSTEM

INJECTION PUMP PIPING, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER AND RELATED PARTS - Continued
(Galion Applications)



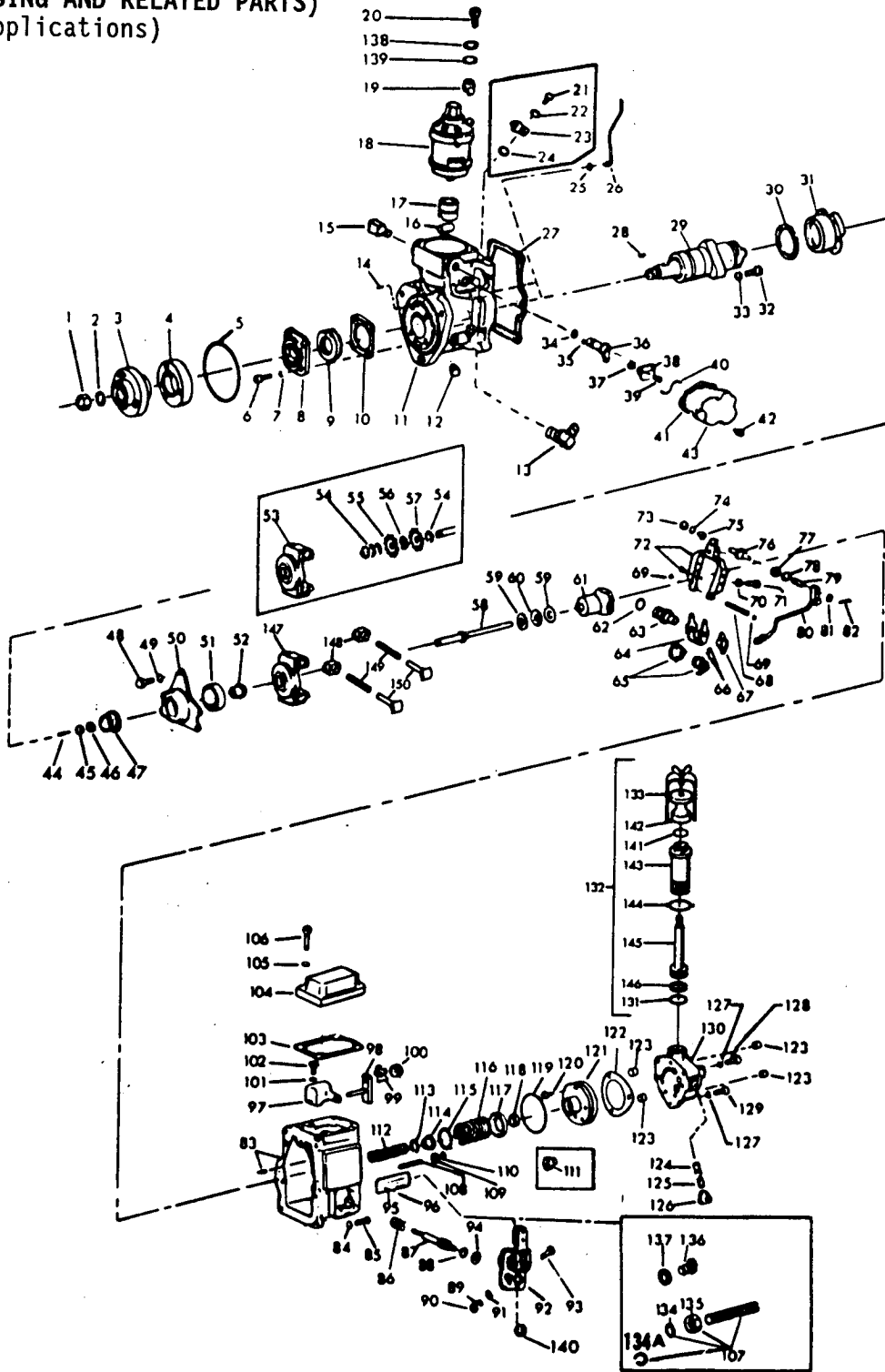
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP PIPING, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER AND RELATED PARTS - Continued (Galion Applications)			
684 899 C1		CLAMP, final filter to injection pump hose-----	4
25 222 R1		SCREW, 1/4-20 x 3/4"-----	2
19 592 R1		NUT, 1/4-20 prevailing torque lock-----	2
536 410 R1		GROMMET-----	2
9409 949		PLUG, injection pump mounting adapter (ADAPTER ASSY, 676,942 C92)-----	1
680 246 C1		HOSE, 3/16" ID x 120"-----	AR
444 654		PLUG, pipe (Port closure lock)-----	1
676 026 C1		WIRE, lock-----	2
674 830 C2		GROMMET (LQ-165 & LQ-165A)-----	2
258 079 C1		GROMMET (LQ-165 & LQ-165A)-----	2
113 957		SCREW, 1/4" X 1/2"-----	2
262 038 R1		NUT, 1/4"-----	2

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



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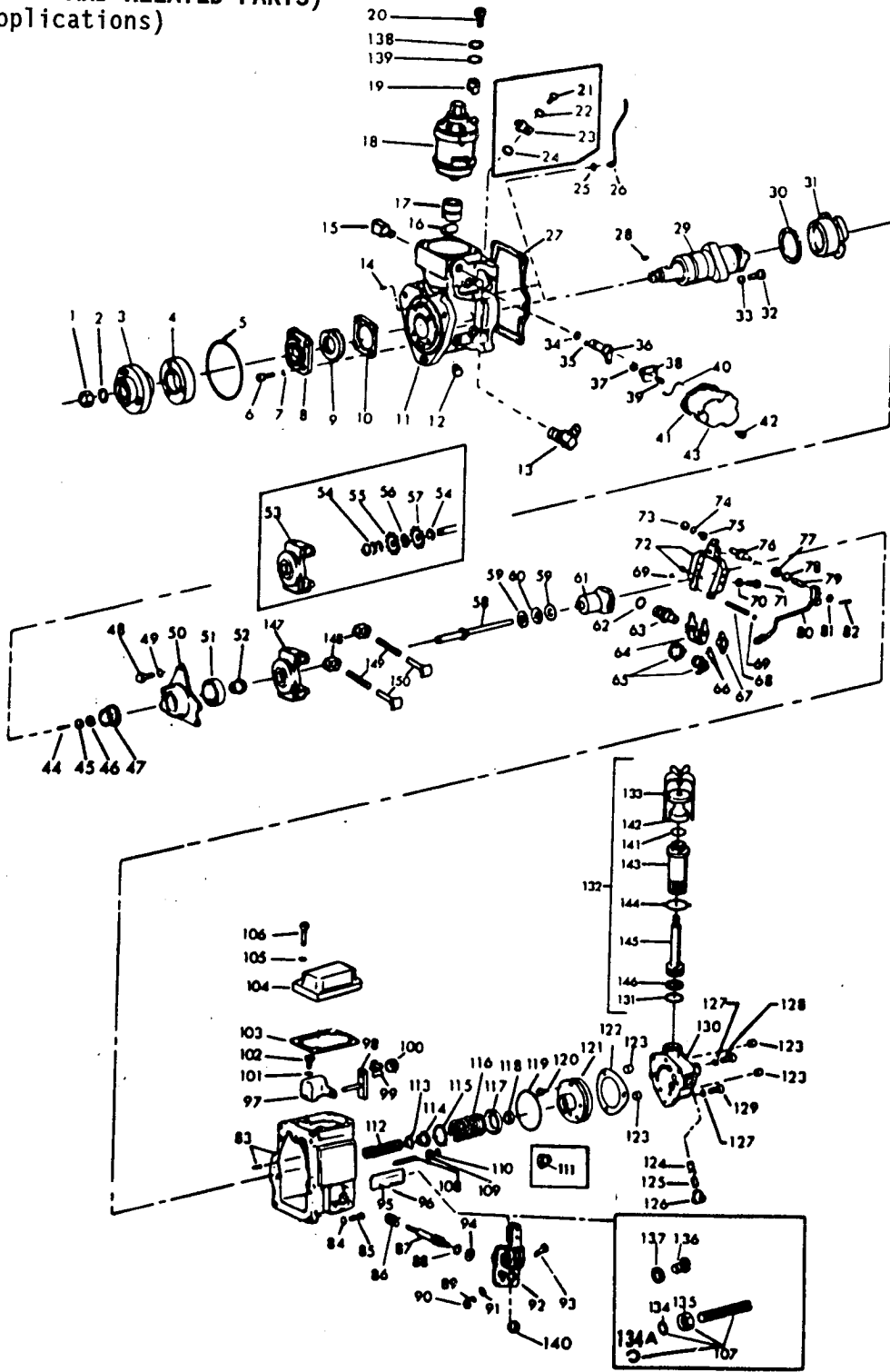
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP (PUMP HOUSING AND RELATED PARTS) (Galion Applications)			
684 509 C93	LQ-157	*	
684 509 C93	LQ-157A	*	
684 525 C91	LQ-158		
691 047 C91	LQ-158A		
675 958 C93	LQ-159	*	
691 048 C91	LQ-161A		
691 048 C91	LQ-161B		
684 747 C91	LQ-163	(Service Parts Not Yet Available)	
691 058 C92	LQ-165	*	
691 058 C92	LQ-165A	*	
691 000 C91	LQ-166B		
691 158 C92	LQ-167	*	
691 158 C92	LQ-167A	*	
691 000 C91	LQ-168		
691 025 C91	LQ-170		
675 958 C93	A400E	*	
1806 914 C91	S450E, S500E	(Service Parts Not Yet Available)	
1806 914 C91	A450E, A500E	(Service Parts Not Yet Available)	
691 025 C91	A550, A556		
691 025 C91	A560E, A566E		

*When replacing the injection pump with the new pump part no. listed here, check the engine static timing. The correct timing when using the new pump is 12° ± 1° BTDC.

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



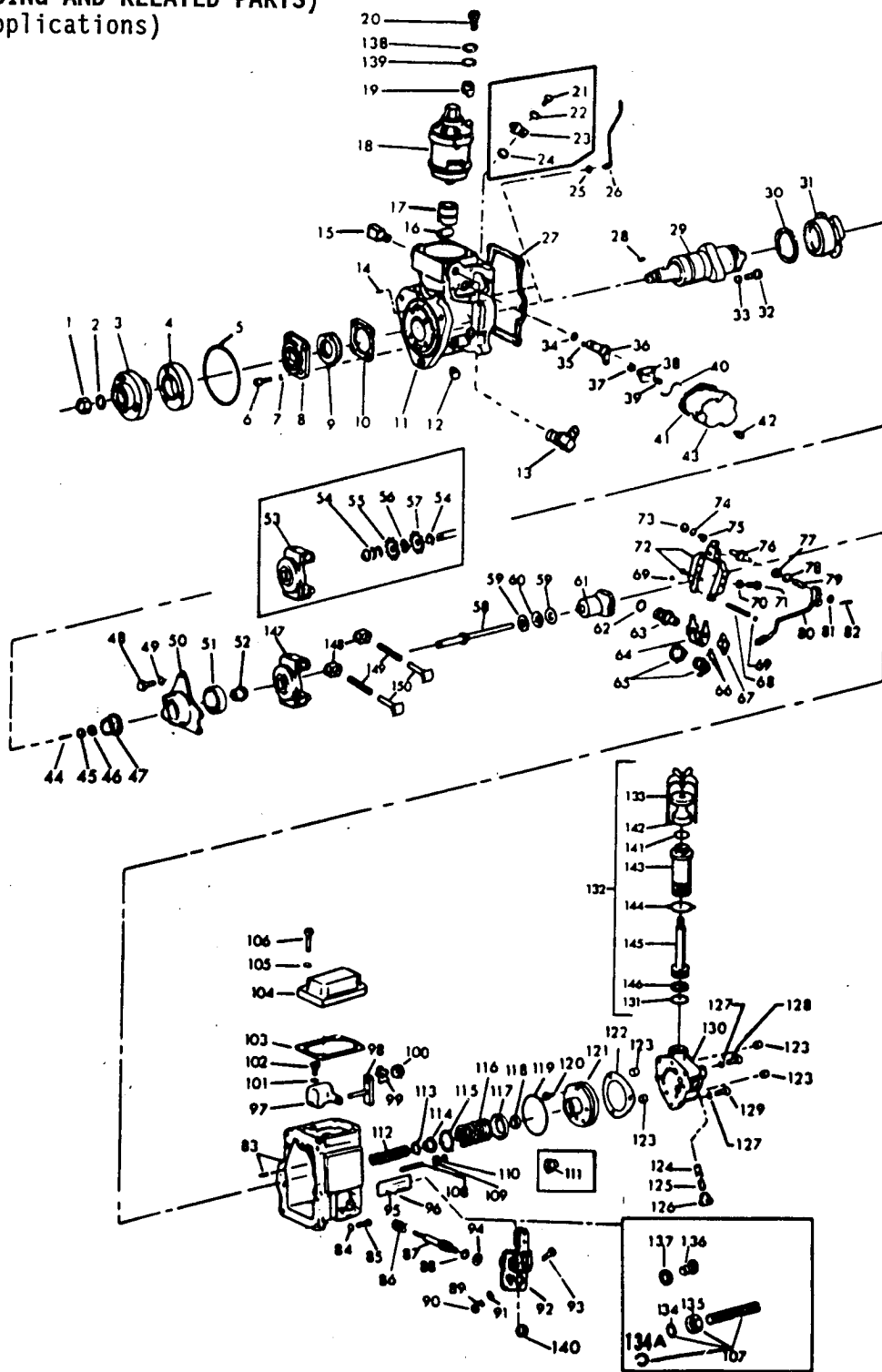
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
1	115 742	NUT, 9/16" nf drive hub-----	1
2	674 751 C1	WASHER, lock-----	1
3	676 925 C1	HUB, drive-----	1
4	676 926 C1	PLATE, drive hub back-----	1
5	674 754 C1	"O" RING, pump housing-----	1
6	674 755 C1	SCREW, retainer plate-----	4
7	131 200	WASHER, 1/4" lock-----	4
8	674 757 C1	PLATE, retainer-----	1
9	674 758 C1	WASHER, thrust-----	1
10	674 759 C1	SHIM, retainer plate (.004")-----	AR
	674 760 C1	SHIM, retainer plate (.008")-----	AR
	674 761 C1	SHIM, retainer plate (.002")-----	AR
11	680 442 C2	HOUSING w/POINTER, 681 438 C1, pump (All Pump Assy's expect 684 509 <u>C93</u> and 691 158 <u>C92</u>)-----	1
11	1808 331 C1	HOUSING w/POINTER, 681 438 C1, pump (Pump Assy's 684 509 <u>C93</u> and 691 158 <u>C92</u>)-----	1
12	444 654	PLUG, 1/4-18 NPT pipe (port closure)-----	1
13	444 040	ELBOW, fuel inlet (replaces 674 724 C1)-----	1
14	681 438 C1	POINTER, timing-----	1
15	680 313 C1	VALVE, fuel return (Refer to "Fuel Piping")-----	1
16	674 769 C1	ROLLER, tappet-----	1
17	674 770 C1	GUIDE, tappet-----	1
18		HEAD ASSY., hydraulic (Refer to "Hydraulic Head")----	1
19	674 805 C1	CLAMP, hydraulic head retaining-----	4
20	684 306 C1	SCREW, hydraulic head retaining (Together with WASHER, 684 307 C1 will work for SCREW, 674 806 C1)-----	4

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



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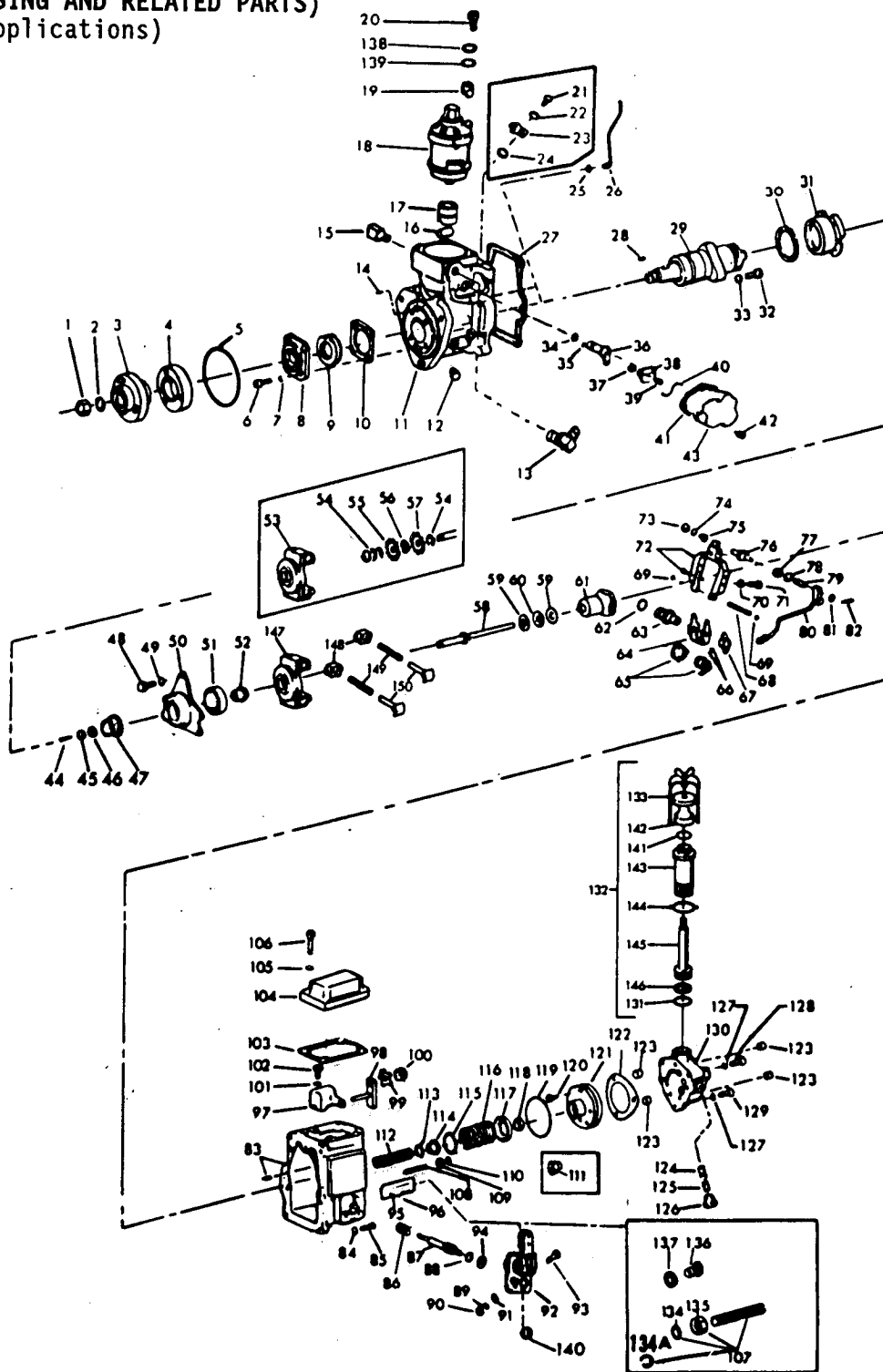
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
21	674 810 C1	SCREW, hydraulic head locating plate (Use only with HOUSING, 680 442 C1)-----	1
22	257 161 R1	GASKET, hydraulic head locating plate screw (Use only with HOUSING, 680 442 C1)-----	1
23	674 808 C1	PLATE, hydraulic head locating (Use only with HOUSING, 680 442 C1)-----	1
24	674 807 C1	GASKET, hudraulic head locating plate (Use only with HOUSING, 680 442 C1)-----	1
25	674 812 C1	"O" RING, excess fuel device tube-----	1
26	674 813 C1	TUBE, excess fuel device-----	1
27	674 811 C1	GASKET, pump housing to governor housing-----	1
28	124 546	KEY, Woodruff (camshaft)-----	1
29		CAMSHAFT ASSY (++)	
30		WASHER, thrust (++)	
31		PLATE, bearing (++)	
32	674 755 C1	SCREW, camshaft retaining-----	4
33	131 200	WASHER, 1/4" lock-----	4
34	355 967 R1	"O" RING, control unit-----	1
35	1802 400 C1	PIN, control unit-----	1
36	674 756 C91	CONTROL UNIT w/GASKET, 355 967 R1 and PIN, 1802 400 C1	1
37	674 764 C1	SPACER, control unit plate-----	2
38	674 768 C1	PLATE, control unit (Ident. No. 1)-----	AR
38	674 809 C1	PLATE, control unit (Ident. No. 2)-----	AR

(++) Refer to "Fuel Injection Pump Camshaft

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



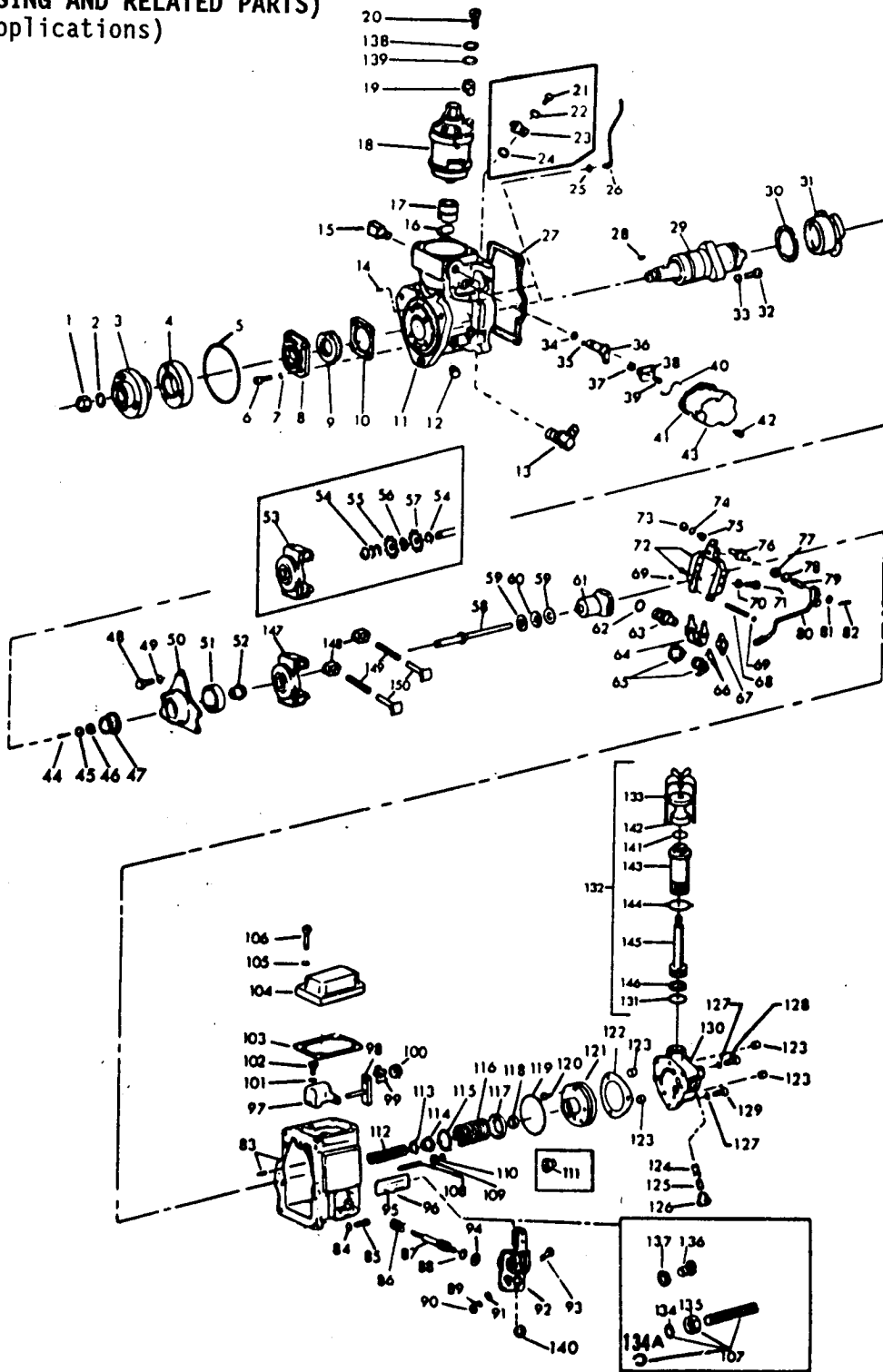
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
39	674 816 C1	SCREW w/WASHER, control unit plate (1-1/4")-----	2
	131 198	WASHER, No. 10 lock-----	2
40	263 213 R1	NOT USED	
41	681 263 C1	GASKET, control unit cover-----	1
42	674 710 C1	SCREW w/WASHER, control unit cover-----	2
42	674 848 C1	SCREW, control unit cover-----	2
		WASHER, No. 10 lock-----	2
43	674 829 C1	COVER, control unit-----	1
44	674 850 C1	PIN and SPRING, lube-----	1
45	681 444 C1	NUT, drive gear-----	1
46	681 445 C1	CUP, drive gear lock-----	1
47	681 446 C1	GEAR, governor drive-----	1
48	25 481 R1	SCREW, bearing support plate-----	3
49	131 200	WASHER, 1/4" lock-----	3
50	681 447 C1	PLATE, bearing support-----	1
51	681 448 C1	BEARING, ball-----	1
52	681 449 C1	BUSHING, bearing (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	1
52	1802 353 C1	BUSHING, bearing (Used w/WEIGHT & SHAFT ASSY, 1802 364 C91) (Spring Drive)-----	1
53	681 450 C2	SPIDER, friction drive (Order WEIGHT & SHAFT ASSY, 1802 364 C91) (Spring Drive)-----	1
54	681 451 C1	SPACER, shaft (.005") (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	AR
54	681 452 C1	SPACER, shaft (.010") (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	AR

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



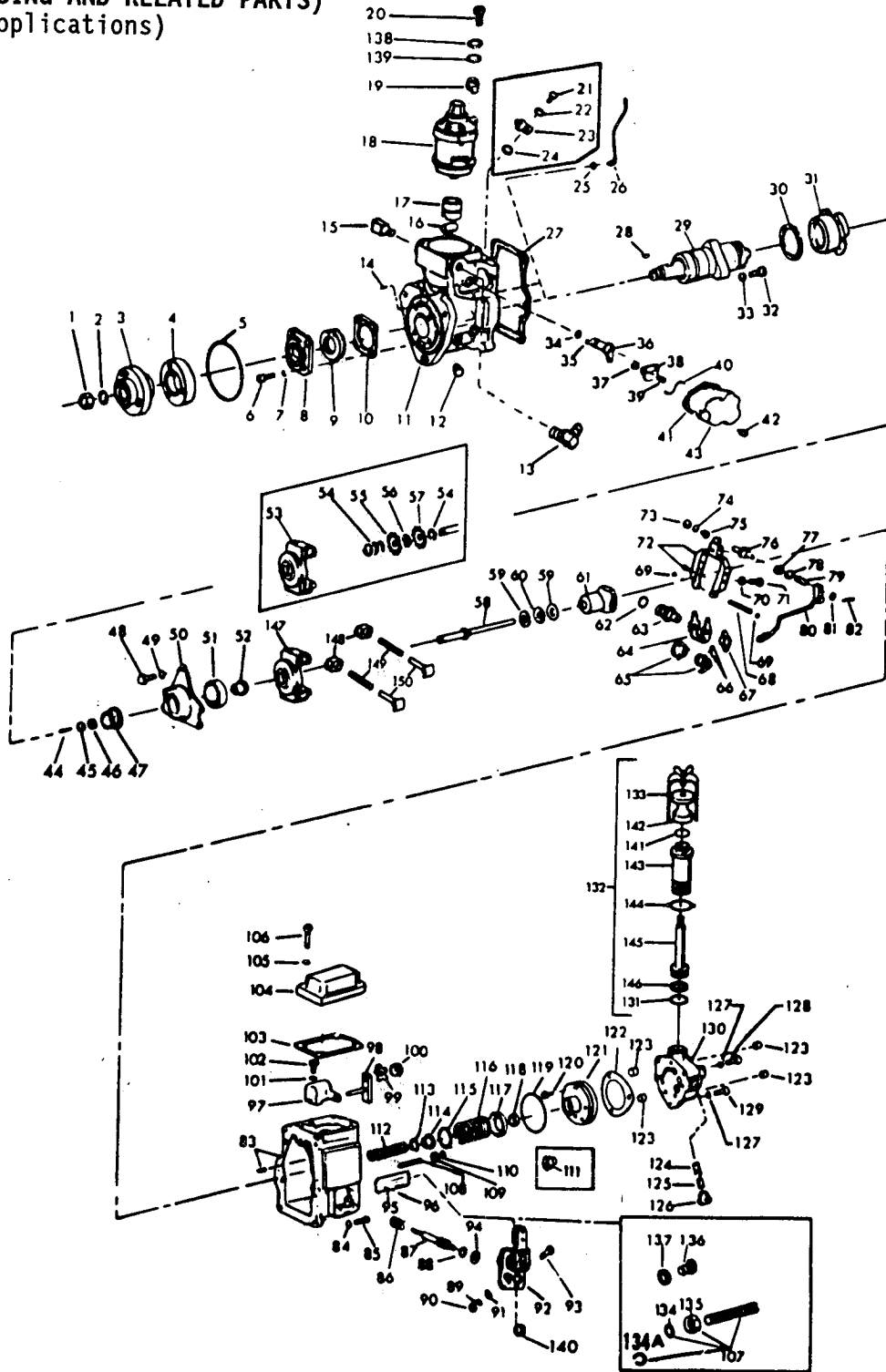
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
54	681 453 C1	SPACER, shaft (.015") (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	AR
54	681 454 C1	SPACER, shaft (.020") (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	AR
54	681 455 C1	SPACER, shaft (.035") (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	AR
54	681 456 C1	SPACER, shaft (.002") (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	AR
55	681 457 C2	DISC, spring (inner) (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	1
56	681 454 C1	SPACER, spring disc (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	1
57	681 458 C1	DISC, spring (outer) (Used w/WEIGHT & SHAFT ASSY, 674 853 C92) (Friction Drive)-----	1
58	1802 671 C1	SHAFT, governor drive (Replaces 681 459 C1)-----	1
59	674 875 C1	WASHER, governor sleeve thrust-----	2
60	674 876 C91	BEARING, governor sleeve thrust-----	1
61	1802 673 C1	SLEEVE, governor (Replaces 674 877 C1)-----	1
62	355 966 R1	"O" RING, governor operating shaft-----	1
63	1802 444 C1	SHAFT, governor (short)-----	1
64	674 882 C1	BRACKET, fulcrum-----	1
65	684 047 C91	PLATE and SPRING ASSY w/PLATE, 1802 449 C1 and SPRING 1802 448 C1, governor operating shaft-----	1
	1802 448 C1	SPRING, operating lever-----	1
	1802 449 C1	PLATE, spring-----	1
66	674 885 C1	SCREW, spring plate set-----	2
67	674 886 C2	LEVER, governor stop-----	1
68	674 891 C1	PIN, fulcrum lever to fulcrum lever bracket-----	1

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



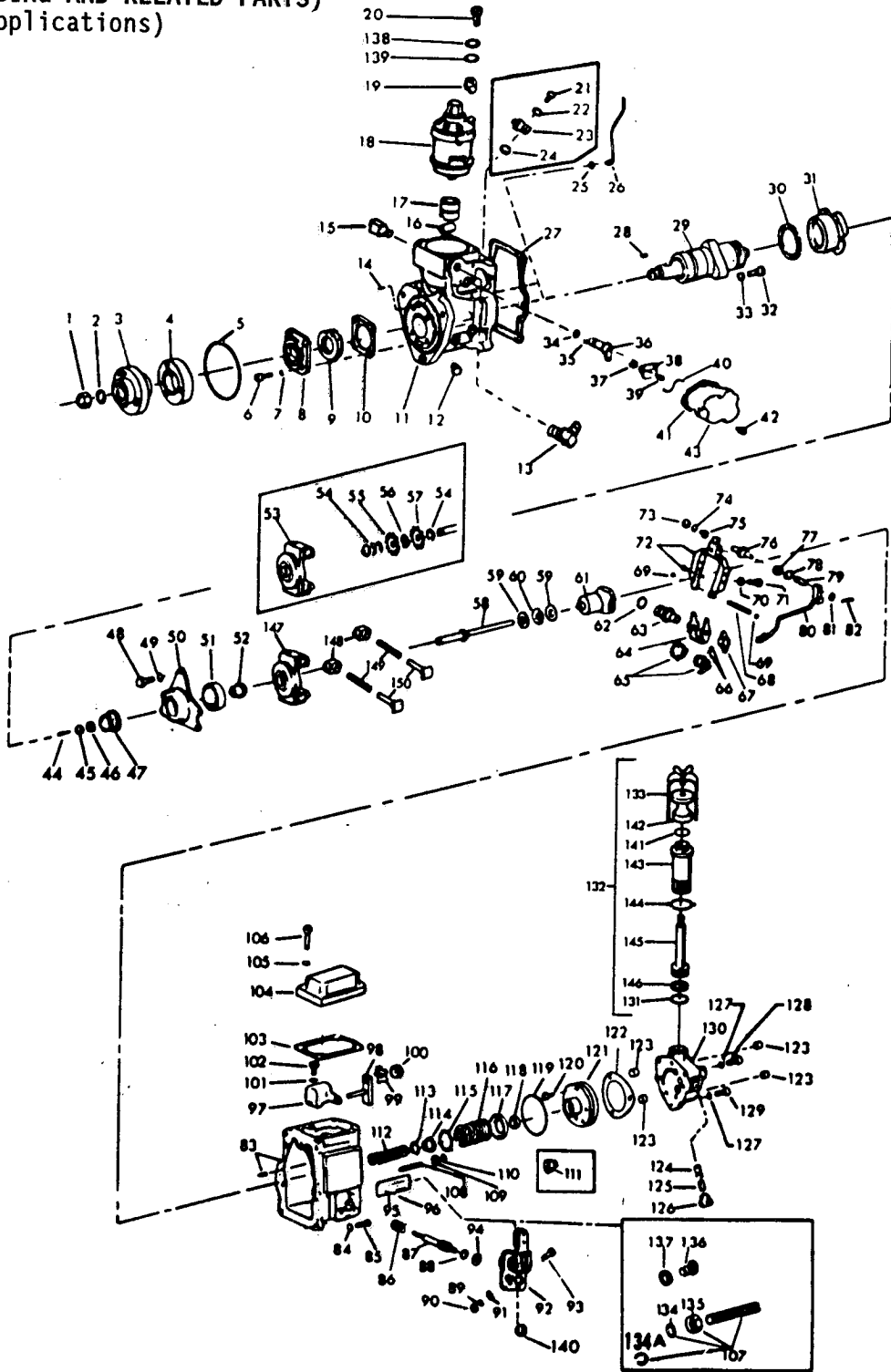
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
69	674 892 C1	RING, pin retaining-----	2
70	19 694 R1	NUT, 1/4" NF (Nylok Zinc) (Droop Screw) (PUMP ASSY, 691 000 C91)-----	1
71	674 902 C1	SCREW, droop (PUMP ASSY, 691,000 C91, 691 158 C91)---	1
72	681 461 C91	LEVER w/two PIN, 1802 427 C1, fulcrum-----	1
	1802 427 C1	PIN, pivot-----	2
73	143 415	NUT, 1/4" NF hex (torque cam)-----	1
74	131 200	WASHER, 1/4" lock-----	1
75	62 270 D	CAM, torque-----	1
76	681 464 C1	SCREW, sq-hd-----	1
77	19 694 R1	NUT, adjusting spring-----	1
78	681 466 C1	WASHER, adjusting spring nut-----	1
79	681 467 C1	SPRING, adjusting-----	1
80	681 468 C1	ROD, control-----	1
81	681 469 C1	WASHER, control rod-----	1
82	681 470 C1	PIN, cotter-----	1
83	674 903 C91	HOUSING w/two DOWEL PIN, 1802 447 C1 governor-----	1
	1802 447 C1	PIN, dowel-----	1
84	131 200	WASHER, 1/4" lock-----	6
85	674 906 C1	SCREW, governor housing to pump housing-----	6
86	680 400 C1	SPRING, idle return-----	1
87	1802 445 C1	SHAFT, governor operating (long)-----	1
88	355 966 R1	"O" RING, governor operating shaft-----	1
89	131 200	WASHER, 1/4" lock-----	1

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



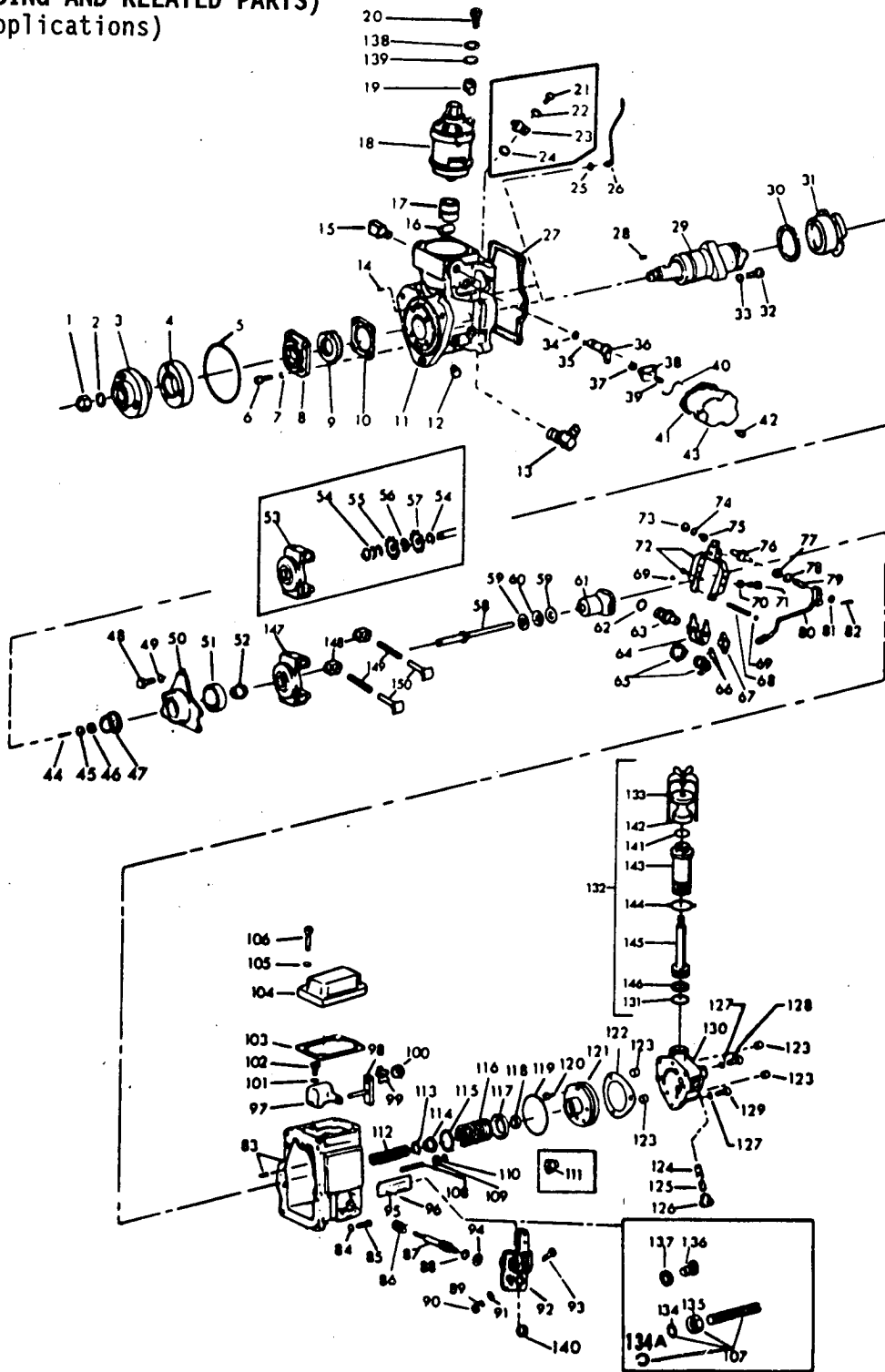
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
90	118 643	NUT, 1/4" hex-----	1
91	557 109 R1	WASHER, operating lever-----	1
92	674 908 C92	LEVER ASSY, operating-----	1
		Composed of:	
	118 643	NUT-----	1
	181 069	SCREW-----	1
	131 200	WASHER-----	1
	557 109 R1	WASHER-----	1
	687 108 C1	SPACER-----	1
93	181 069	SCREW, 1/4" x 1-1/4" hex-hd cap-----	1
94	674 909 C1	WASHER, operating shaft-----	1
95	684 323 C2	NAME PLATE-----	1
96	125 622	SCREW, 3/16" drive-----	2
97	674 915 C91	DEVICE w/NUT, 691 001 C1 and WASHER, 674 917 C1, excess fuel-----	1
98	674 916 C1	PLATE, stop (Ident. 0/90 deg.)----- (PUMP ASSY, 691 048 C91, 691 058 C91, 691 158 C91, 684 525 C91, 691 047 C91)	1
98	681 258 C1	PLATE, stop (Ident. 10/90 deg.)----- (PUMP ASSY, 691 025 C91)	1
98	691 141 C1	PLATE, stop (Ident. -5/90 deg.)----- (PUMP ASSY, 691 000 C91)	1
99	674 917 C1	WASHER, tab-----	1
100	691 001 C1	NUT, 1/4" NF hex-----	1
101	131 200	WASHER, 1/4" lock-----	2
102	674 919 C1	SCREW, fuel device mounting-----	2
103	684 684 C1	GASKET, governor cover top (Replaces 681 264 C1)-----	1
104	674 921 C1	COVER, governor top-----	1

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



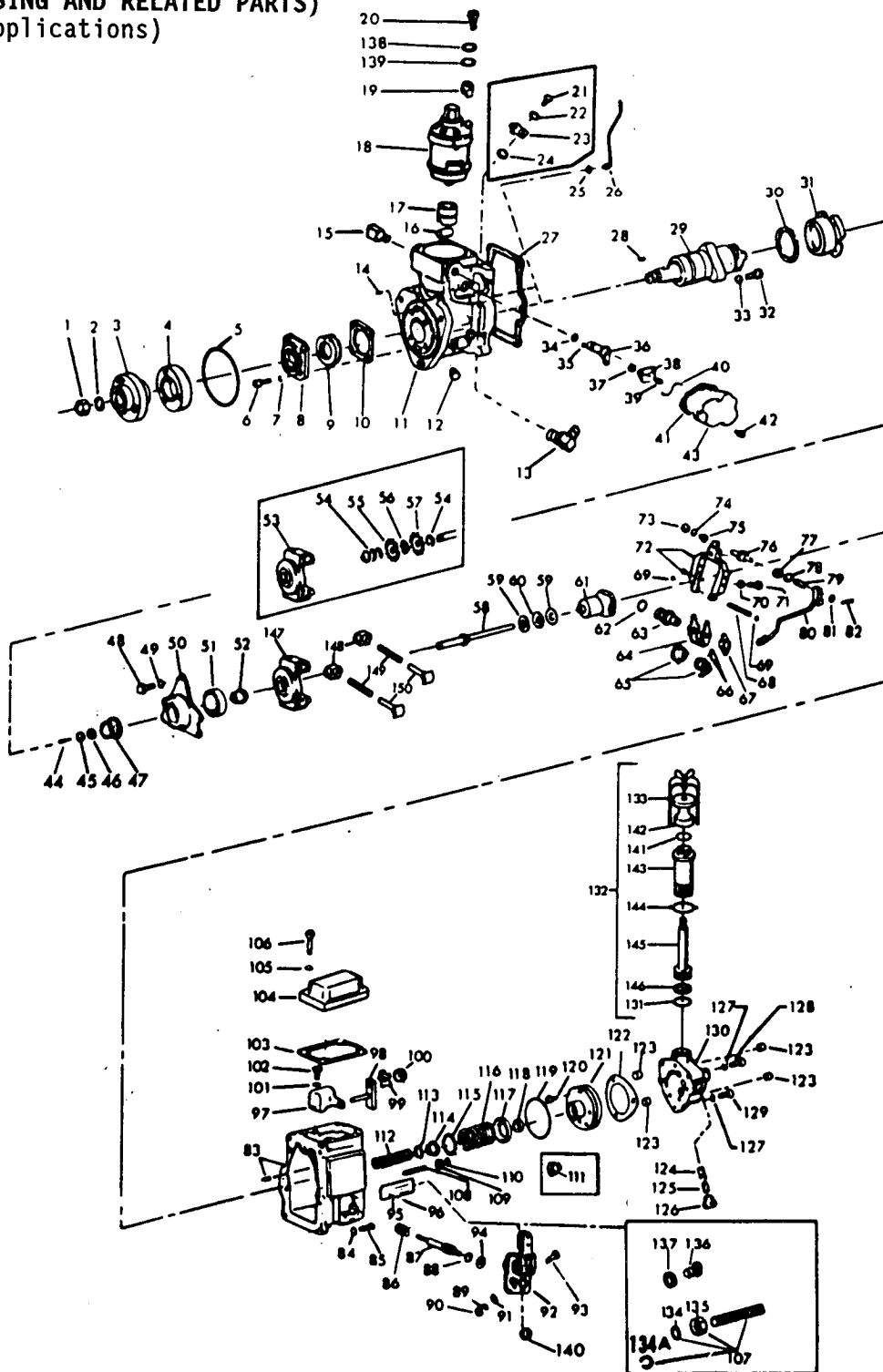
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
105	67 870 D	GASKET, cover mounting screw-----	4
106	674 924 C1	SCREW, drilled-hd, cover mounting-----	4
107	684 029 C92	SCREW ASSY, low idle (solid)-----	1
108	684 282 C91	SCREW ASSY, high idle-----	1
		Composed of:	
	67 870 D	GASKET-----	1
	691 001 C1	NUT-----	1
	1802 437 C1	NUT-----	1
	1802 438 C1	SCREW-----	1
	1802 437 C1	NUT, cap-----	1
	1802 438 C1	SCREW, set-----	1
109	691 001 C1	NUT, 1/4" NF hex-----	1
110	67 870 D	GASKET, high idle screw-----	1
111	674 928 C1	NUT, highidle screw cap-----	1
112	681 413 C1	SPRING, inner governor----- (PUMP ASSY, 691 000 C91, 691 025 C91, 691 158 C91)	1
112	684 522 C1	SPRING, inner governor (80 inch-pounds)----- (PUMP ASSY, 684 509 C92, 684 525 C91, 691 047 C91, 691 048 C92, 691 058 C91)	1
113	62 637 D	SPACER, inner governor spring (.020")-----	AR
113	62 638 D	SPACER, inner governor spring (.042")-----	AR
113	62 639 D	SPACER, inner governor spring (.058")-----	AR
113	62 640 D	SPACER, inner governor spring (.083")-----	AR
113	674 934 C1	SPACER, inner governor spring (.177")-----	AR
113	674 935 C1	SPACER, inner governor spring (.276")-----	AR
113	674 936 C1	SPACER, inner governor spring (.010")-----	AR
114	674 937 C1	SEAT, inner governor spring-----	1
115	62 641 D	SPACER, outer governor spring (.020")-----	AR

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



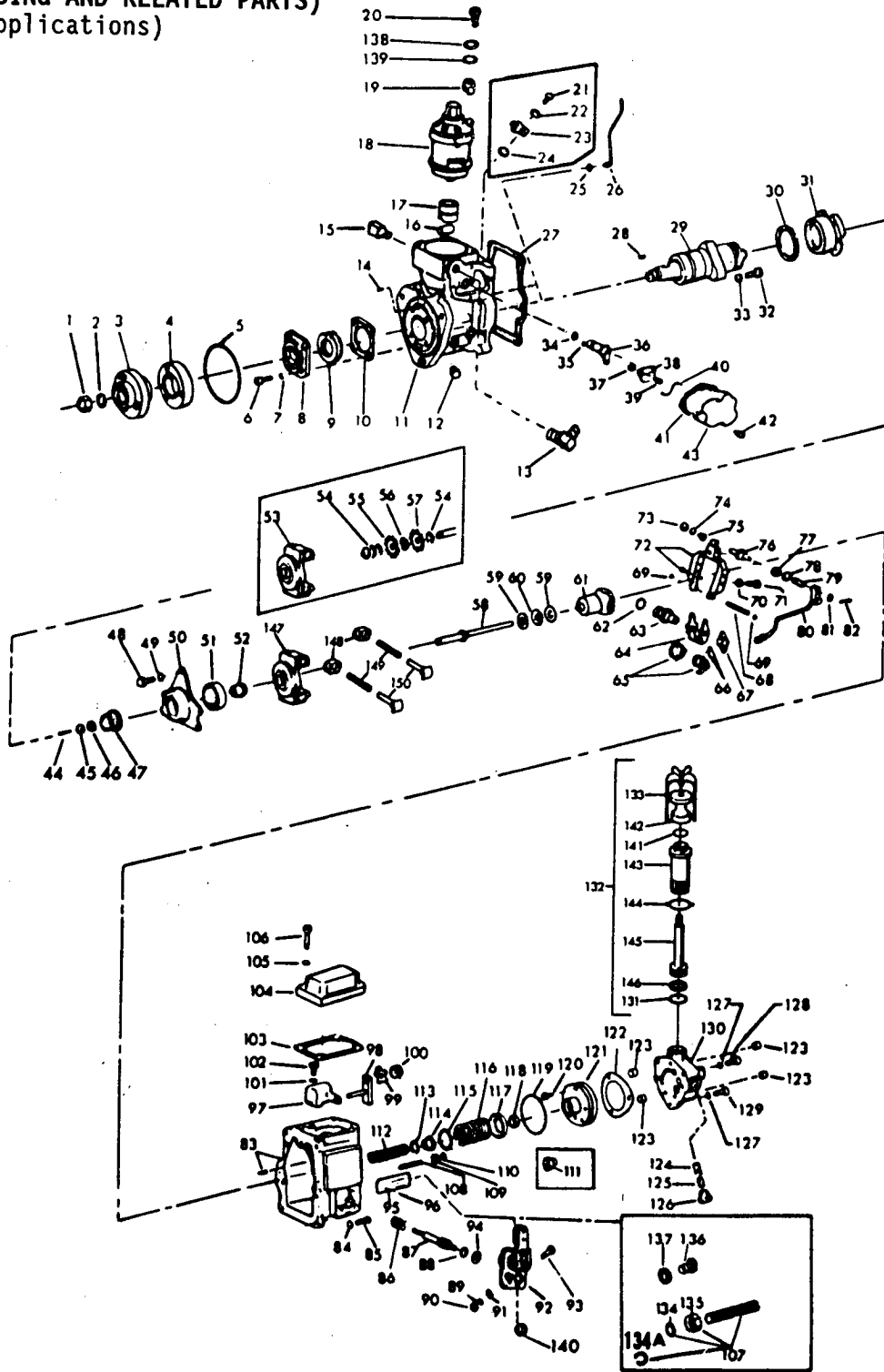
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
115	62 642 D	SPACER, outer governor spring (.043")-----	AR
115	62 643 D	SPACER, outer governor spring (.058")-----	AR
115	62 644 D	SPACER, outer governor spring (.083")-----	AR
115	674 942 C1	SPACER, outer governor spring (.156")-----	AR
115	674 943	SPACER, outer governor spring (.030")-----	AR
115	674 944 C1	SPACER, outer governor spring (.010")-----	AR
116	674 945 C1	SPRING, outer governor-----	1
117	674 946 C1	SEAT, outer governor spring-----	1
118	681 292 C1	SEAL, governor shaft-----	1
119	681 293 C1	"O" RING-----	1
120	1802 431 C1	SCREW, insert-----	1
121	1802 428 C91	INSERT w/SEAL, 681 292 C1, supply pump-----	1
122	681 294 C1	GASKET, supply pump-----	1
123	1802 432 C1	VALVE, check (at upper part of cover)-----	2
123	1802 433 C1	VALVE, check (at lower part of cover)-----	2
124	674 972 C1	VALVE, regulating-----	1
125	680 441 C1	SPRING, regulating valve-----	1
126	674 974 C1	SCREW, spring retaining-----	1
127	131 200	WASHER, 1/4" lock-----	3
128	181 073	SCREW, 1/4" x 2" hex-hd cap (SUPPLY PUMP MOUNTING)---	1
129	62 204 D	SCREW w/DRILLED HEAD, supply pump mounting-----	2

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



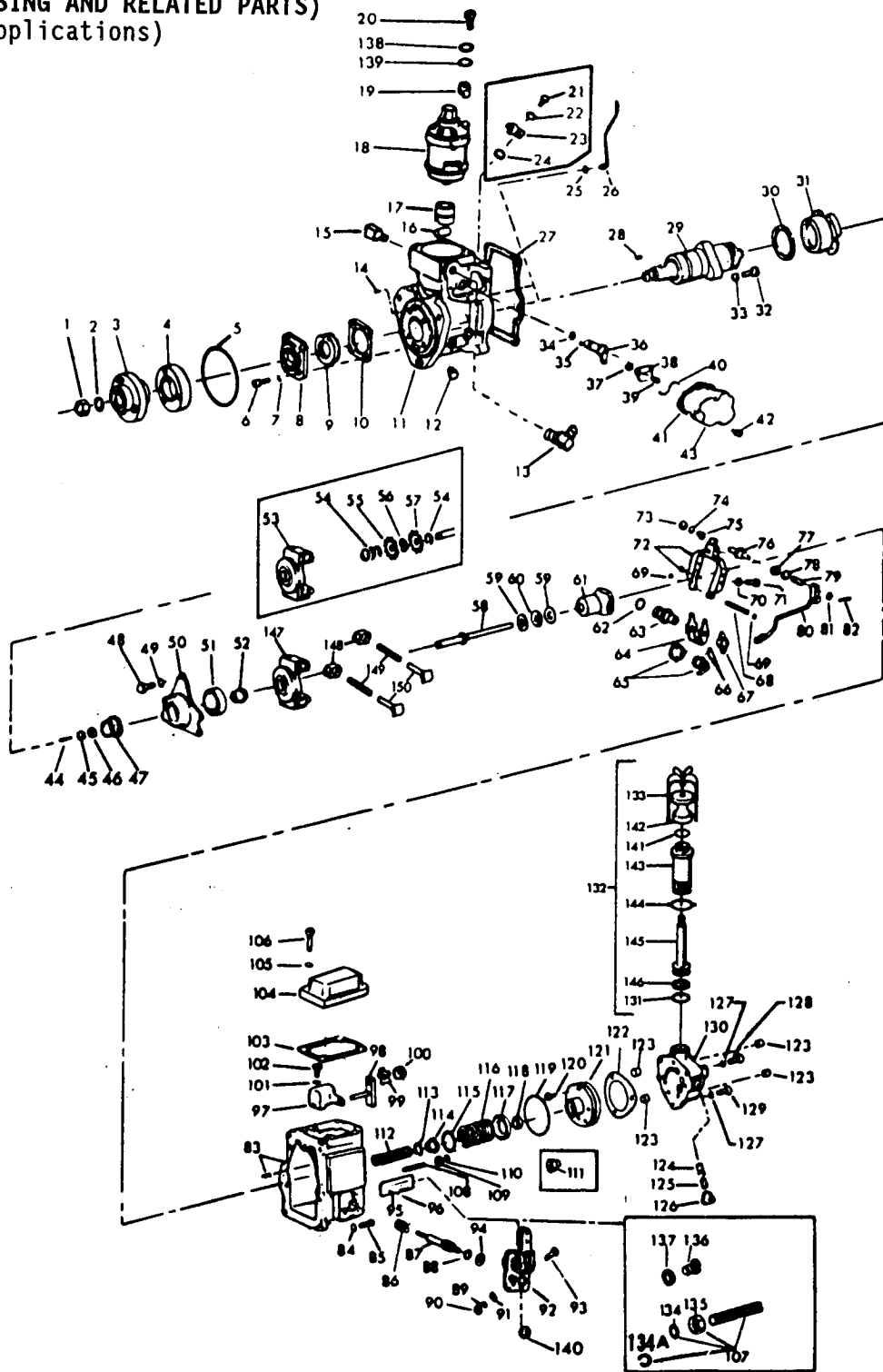
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
130	1802 429 C91	COVER ASSY, supply pump----- Composed of:	1
	NSS	COVER-----	1
	674 974 C1	SCREW-----	1
	680 441 C1	SPRING-----	1
	674 972 C1	VALVE-----	1
	1802 432 C1	VALVE-----	1
	1802 433 C1	VALVE-----	1
131	681 298 C1	GASKET, hand primer-----	1
132	680 391 C91	PRIMER ASSY, hand-----	1
133	681 299 C1	BAIL, hand primer-----	1
134	359 158 R1	"O" RING, low idle screw-----	1
134A	25 408 R1	RING, retaining-----	1
135	674 878 C1	NUT, low idle screw-----	1
136	674 810 C1	PLUG, low idle-----	1
137	674 807 C1	WASHER, low idle plug-----	4
138	684 307 C1	WASHER, upper hydraulic head retainer----- (Use w/SCREW, 684 306 C1)	4
139	684 308 C1	WASHER, lower hydraulic head retainer-----	4
140	684 108 C1	SPACER, operating lever-----	1
141	352 221 R1	"O" RING, hand primer-----	1
142	1802 435 C1	KNOB, hand primer-----	1
143	1802 434 C1	BARREL, hand primer-----	1
144	NSS	FLANGE, bail-----	1
145	1802 436 C1	PLUNGER, hand primer-----	1
146	1802 465 C1	GASKET, plunger sq. ring-----	1

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



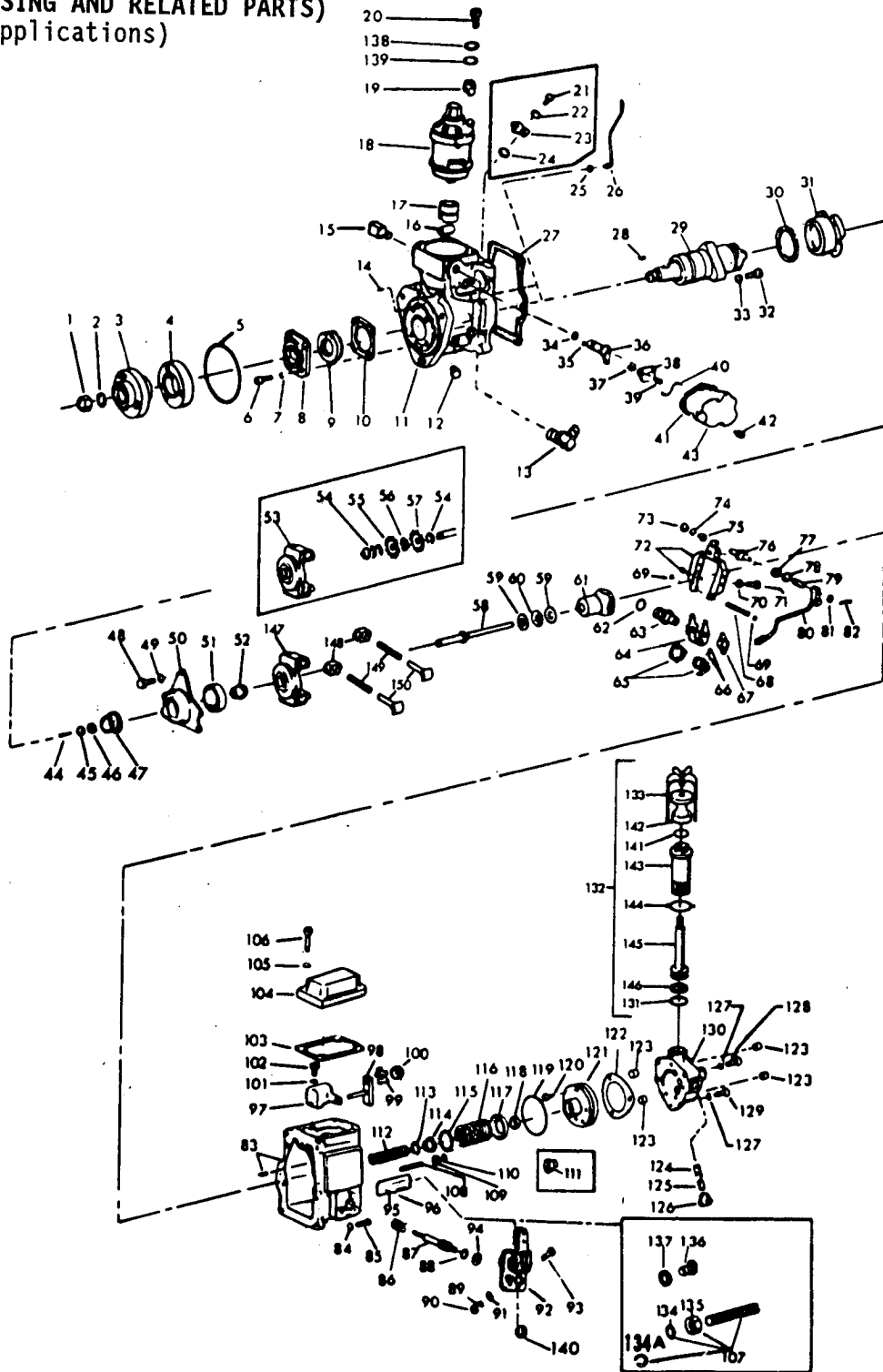
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
147	1802 349 C1	SPIDER, spring drive (Used w/WEIGHT & SHAFT ASSY, 1802 364 C91 & 1802 672 C91) (Spring Drive)-----	1
148	1802 352 C1	SUPPORT, spring seat (Used w/WEIGHT & SHAFT ASSY, 1802 364 C91) (Spring Drive)-----	2
149	1802 350 C1	SPRING, governor weight (Used w/WEIGHT & SHAFT ASSY, 1802 364 C91) (Spring Drive)-----	2
150	1802 351 C1	SEAT, spring (Used w/WEIGHT & SHAFT ASSY, 1802 364 C91) (Spring Drive)-----	2
	674 887 C91	LEVER AND ROD ASSY, fulcrum----- Composed of:	1
	674 882 C1	BRACKET-----	1
	62 270 D	CAM-----	1
	681 461 C91	LEVER-----	1
	143 415	NUT-----	1
	19 694 R1	NUT-----	1
	674 891 C1	PIN-----	1
	681 470 C1	PIN-----	1
	674 892 C1	RING-----	2
	681 468 C1	ROD-----	1
	681 464 C1	SCREW-----	1
	681 467 C1	SPRING-----	1
	131 200	WASHER-----	2
	681 466 C1	WASHER-----	1
	681 469 C1	WASHER-----	1
	687 459 C1	LOCK, seal wire-----	1
	684 079 C93	PACKAGE, gasket (Consists of all gaskets necessary to service a complete pump)-----	1
	680 312 C92	PUMP ASSY, supply----- Composed of:	1
	NSS	BODY-----	1
	1802 429 C91	COVER ASSY-----	1
	681 294 C1	GASKET-----	1
	1802 428 C91	INSERT ASSY-----	1
	681 293 C1	"O" RING-----	1
	1802 431 C1	SCREW-----	5

FUEL SYSTEM

U.T.D.S. FUEL INJECTION PUMP - Continued (PUMP HOUSING AND RELATED PARTS) (Galion Applications)



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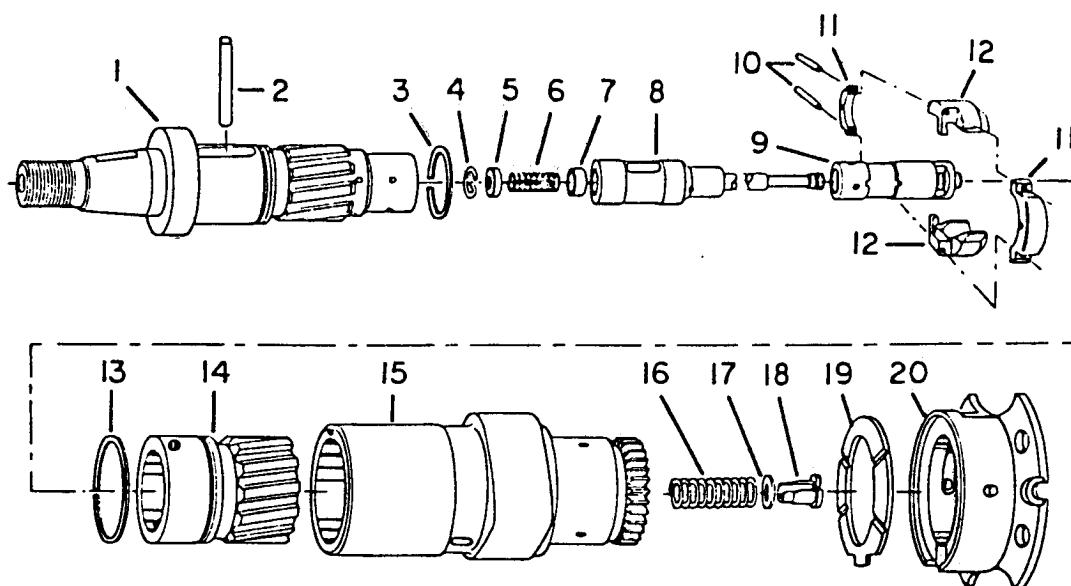
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
U.T.D.S. FUEL INJECTION PUMP - Continued			
(PUMP HOUSING AND RELATED PARTS)			
(Galion Applications)			
681 471 C91		SHAFT w/SPRING, 680 400 C1, Shaft, 1802 444 C1 & SHAFT, 1802 445 C1, governor operating-----	1
674 853 C92		WEIGHT & SHAFT ASSY, governor (Friction Drive)----- (Order WEIGHT & SHAFT ASSY, 1802 672 C91) (Spring Drive) Composed of:	1
681 448 C1		BEARING-----	1
681 449 C1		BUSHING-----	1
681 445 C1		CUP-----	1
681 457 C2		DISC-----	1
681 458 C1		DISC-----	1
681 446 C1		GEAR-----	1
681 444 C1		NUT-----	1
681 447 C1		PLATE-----	1
681 459 C1		SHAFT-----	1
681 454 C1		SPACER-----	1
681 456 C1		SPACER-----	AR
681 450 C2		SPIDER ASSY-----	1
1802 672 C91		WEIGHT & SHAFT ASSY, governor (Spring Drive)----- (Replaces WEIGHT & SHAFT ASSY, 1802 364 C91) Composed of:	1
681 448 C1		BEARING-----	1
1802 353 C1		BUSHING-----	1
681 445 C1		CUP-----	1
681 446 C1		GEAR-----	1
681 444 C1		NUT-----	1
681 447 C1		PLATE-----	1
1802 351 C1		SEAT-----	2
1802 671 C1		SHAFT-----	1
1802 349 C1		SPIDER-----	1
1802 350 C1		SPRING-----	2
1802 352 C1		SUPPORT-----	2
678 026 C1		WIRE, lock (long)-----	1

FUEL SYSTEM

FUEL INJECTION PUMP (CAMSHAFT)

(Galion Applications, except A600 & A606)



CG-9380

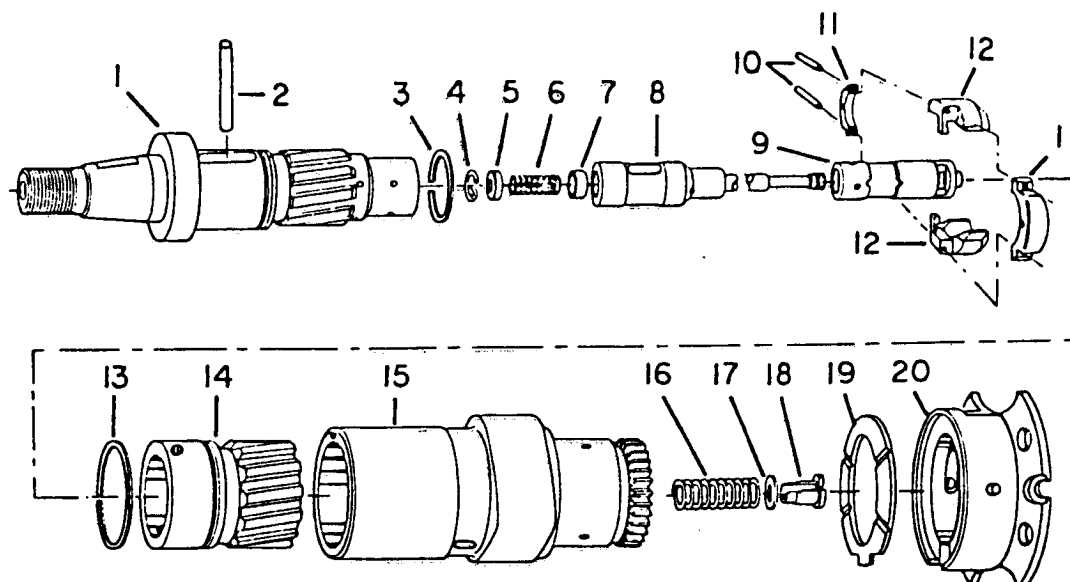
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
FUEL INJECTION PUMP			
(CAMSHAFT)			
(Galion Applications, except A600 & A606)			
	687 012 C92	CAMSHAFT ASSY (Intravance 14°)----- (All except Pump Assy, 691 058 C92, 684 509 C93, 675 958 C93, 691 158 C92)	1
	687 147 C92*	CAMSHAFT ASSY (Intravance 14°)----- (Pump Assy, 691 058 C91, 691 158 C91, 684 509 C92)	1
	1802 667 C91	CAMSHAFT ASSY (Intravance 20°)----- (Pump Assy, 691 058 C92, 684 509 C93, 675 958 C93, 691 158 C92)	1
1	NSS	SHAFT, cam-----	1
2	1802 401 C1	PIN, sleeve and rod-----	1
3	1802 402 C1	RING, shaft seal-----	1
4		NOT USED	
5		NOT USED	
6		NOT USED	
7		NOT USED	
8	1802 415 C1	ROD, follow-up-----	1
9	NSS	VALVE, control-----	1
10	1802 403 C1	PIN, weight-----	2
11	1802 426 C1	SPIDER, weight-----	2
12	1802 404 C1	WEIGHT, control valve-----	2
13	1802 405 C1	RING, sleeve seal-----	1
14	NSS	SLEEVE, spline-----	1

*No longer available. If replacement is necessary
order CAMSHAFT ASSY, 1802 667 C91, change engine
static timing to 12° ± 1° BTDC and use service
parts for CAMSHAFT ASSY, 1802 667 C91.

FUEL SYSTEM

FUEL INJECTION PUMP - Continued (CAMSHAFT) (Galion Applications, except A600 & A606)



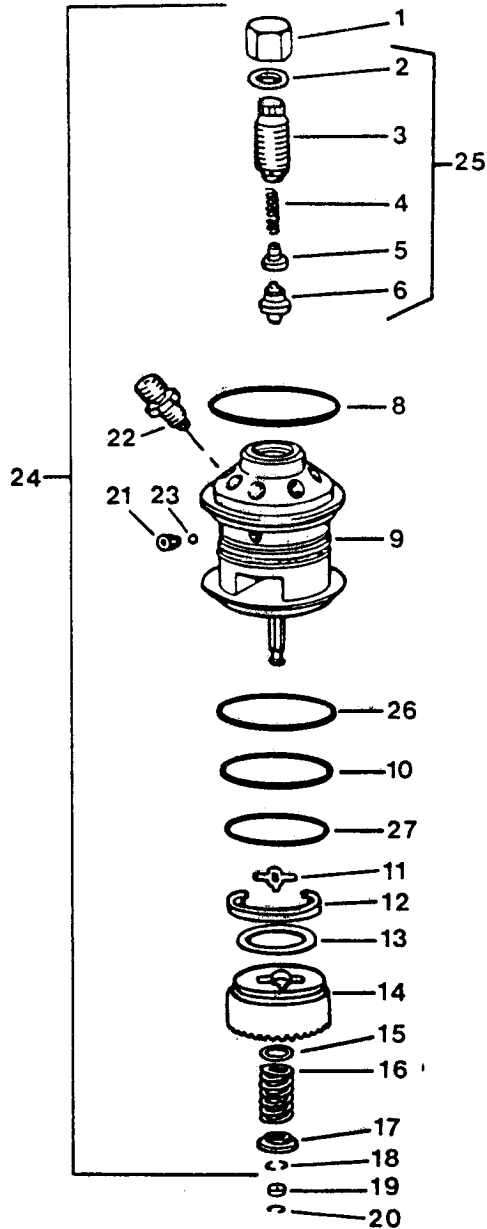
CG-9380

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
FUEL INJECTION PUMP - Continued			
(CAMSHAFT)			
(Galion Applications, except A600 & A606)			
15	NSS	CAM-----	1
16	1802 422 C1	SPRING, advance (For Camshaft Assy, 687 012 C92)-----	1
16	1802 668 C1	SPRING, advance (For Camshaft Assy, 1802 667 C91)-----	1
16	1802 423 C1	SPRING, advnace (For Camshaft Assy, 687 147 C92)-----	1
17	1802 411 C1	WASHER, advance spring (.004 thick)-----	AR
17	1802 407 C1	WASHER, advance spring (.010 thick)-----	AR
17	1802 408 C1	WASHER, advance spring (.015 thick)-----	AR
17	1802 409 C1	WASHER, advance spring (.040 thick)-----	AR
17	1802 410 C1	WASHER, advance spring (.060 thick)-----	AR
18	1802 406 C1	GUIDE, spring seat-----	1
19	684 309 C1	WASHER, thrust-----	1
20	674 841 C1	PLATE, bearing-----	1

FUEL SYSTEM

FUEL INJECTION PUMP - Continued (HYDRAULIC HEAD AND RELATED PARTS) (Galion Applications, except A600 & A606)



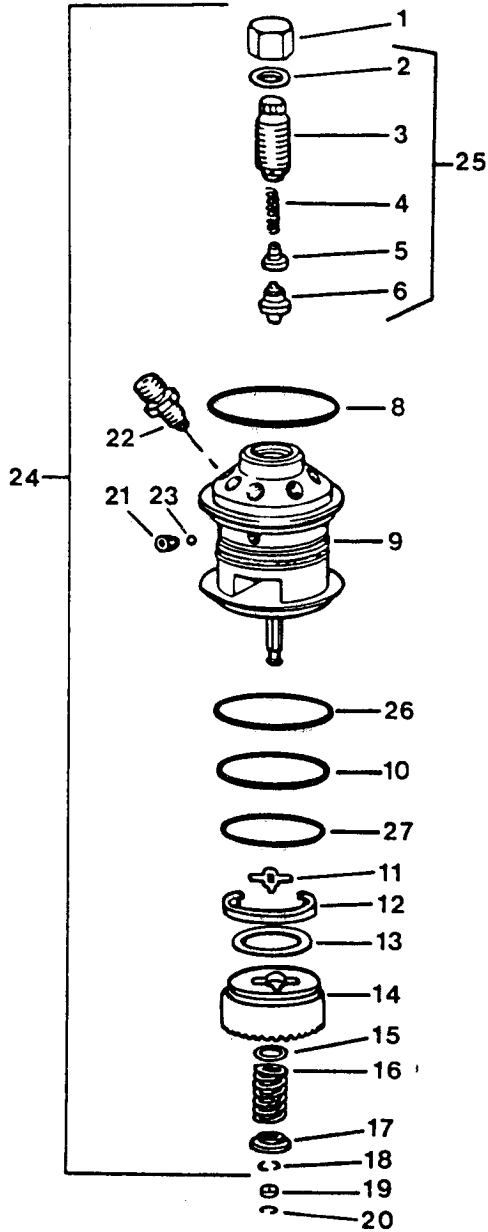
CG-10329

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
FUEL INJECTION PUMP - Continued			
(HYDRAULIC HEAD AND RELATED PARTS)			
(Galion Applications, except A600 & A606)			
1	674 786 C2	NUT, delivery valve cap-----	1
2	674 785 C1	GASKET, cap nut-----	1
3	NSS	HOLDER, delivery valve-----	1
4	674 801 C1	SPRING, delivery valve-----	1
5	674 789 C1	GUIDE, delivery valve spring (.056") (Yellow)-----	AR
5	674 790 C1	GUIDE, delivery valve spring (.066") (Red)-----	AR
5	674 791 C1	GUIDE, delivery valve spring (.076") (Blue)-----	AR
5	674 792 C1	GUIDE, delivery valve spring (.086") (Black)-----	AR
5	674 793 C1	GUIDE, delivery valve spring (.096") (White)-----	AR
6	NSS	VALVE, delivery-----	1
8	327 110 R1	"O" RING, upper (Part of Head Assy, 674 839 C94)-----	1
8	1808 334 C1	"O" RING, upper (Part of Head Assy, 1808 332 C91)-----	1
9	NSS	HEAD, hydraulic (10 mm)-----	1
10	674 772 C1	"O" RING, lower (Part of Head Assy, 674 839 C94)-----	1
10	1808 335 C1	GASKET, flat (lower) (Part of Head Assy 1808 332 C91)	1
11	681 462 C1	GUIDE, plunger drive-----	1
12	681 496 C1	RETAINER, face gear-----	1
13	674 798 C2	WASHER thrust-----	1
14	681 439 C91	GEAR and HUB ASSY w/GEAR, 1802 397 C1; HUB, 1802 399 C1 and WASHER, 674 798 C2 (Part of Head Assy, 674 839 C94)-----	1
	1802 397 C1	GEAR, face-----	1
	1802 399 C1	HUB, face gear-----	1
14	1808 333 C1	GEAR, face (one-piece design) (Part of Head Assy, 1808 332 C91)-----	1

FUEL SYSTEM

FUEL INJECTION PUMP - Continued
(HYDRAULIC HEAD AND RELATED PARTS)
(Galion Applications, except A600 & A606)



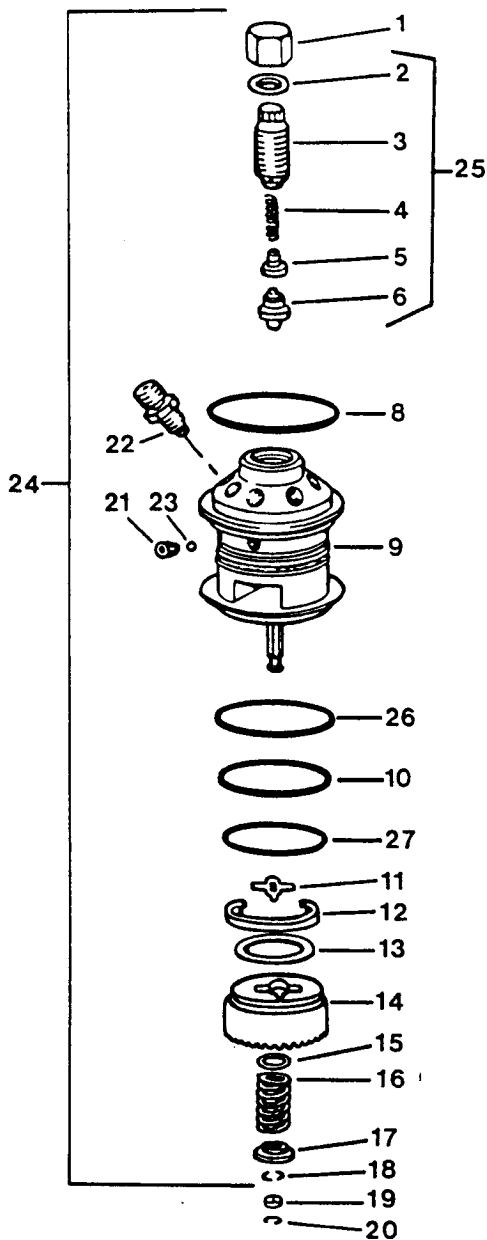
CG-10329

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
FUEL INJECTION PUMP - Continued			
(HYDRAULIC HEAD AND RELATED PARTS)			
(Galion Applications, except A600 & A606)			
15	674 804 C1	WASHER, plunger spring-----	1
16	674 802 C1	SPRING, plunger-----	1
17	684 310 C1	SEAT, lower spring-----	1
18	674 797 C1	RING, split (lower spring seat)-----	2
19	674 949 C2	BUTTON, plunger (Ident. A .1071")-----	1
19	674 925 C2	BUTTON, plunger (Ident. B .1091")-----	1
19	674 926 C2	BUTTON, plunger (Ident. C .1110")-----	1
19	674 948 C2	BUTTON, plunger (Ident. D .1130")-----	1
19	674 775 C2	BUTTON, plunger (Ident. E .1150")-----	1
19	674 776 C2	BUTTON, plunger (Ident. F .1169")-----	1
19	674 777 C3	BUTTON, plunger (Ident. G .1189")-----	1
19	674 778 C2	BUTTON, plunger (Ident. H .1209")-----	1
19	674 779 C2	BUTTON, plunger (Ident. J .1228")-----	1
19	674 780 C2	BUTTON, plunger (Ident. K .1248")-----	1
19	674 781 C2	BUTTON, plunger (Ident. L .1268")-----	1
19	674 782 C2	BUTTON, plunger (Ident. M .1287")-----	1
20	674 783 C1	RING, plunger button retaining-----	1
21	674 800 C1	SCREW, set-----	1
22	684 399 C1	FITTING, discharge-----	6
23	674 784 C1	BALL, sealing-----	1
24	674 839 C94	HEAD ASSY, hydraulic (10 mm) (All Pump Assy, except 684 509 <u>C93</u> and 691 158 <u>C92</u>)-----	1
24	1808 332 C91	HEAD ASSY, hydraulic (10 mm) (Pump Assy, 684 509 <u>C93</u> and 691 158 <u>C92</u>)-----	1

FUEL SYSTEM

FUEL INJECTION PUMP - Continued (HYDRAULIC HEAD AND RELATED PARTS) (Galion Applications, except A600 & A606)



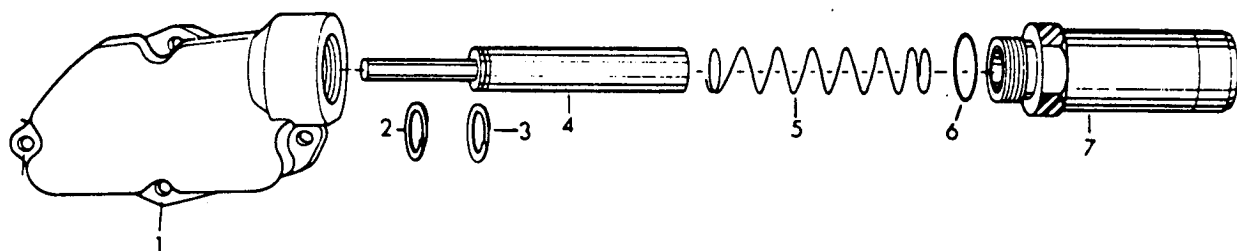
CG-10329

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
FUEL INJECTION PUMP - Continued			
(HYDRAULIC HEAD AND RELATED PARTS)			
(Galion Applications, except A600 & A606)			
25	684 934 C93	PACKAGE, delivery valve service (10 mm)-----	1
26	22 280 R1	"O" RING, middle (Part of Head Assy, 1808 332 C91)---	1
27	1808 336 C1	RING, steel back-up (Part of Head Assy, 1808 332 C91)	1

FUEL SYSTEM

FUEL INJECTION PUMP - Continued
(SOLENOID ASSEMBLY)
(Galion Applications, except A600 & A606)



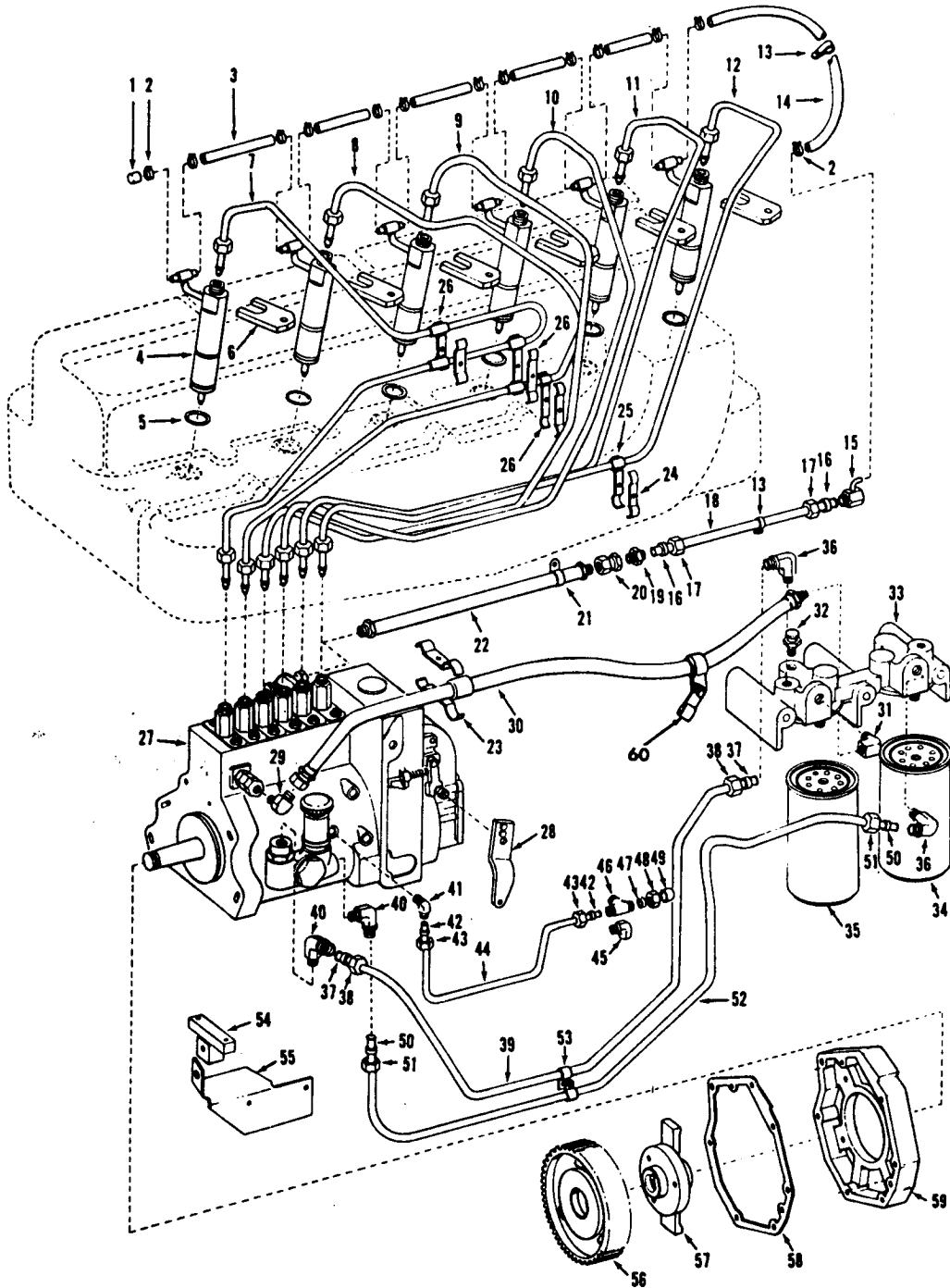
CG-5624

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
FUEL INJECTION PUMP - Continued			
(SOLENOID ASSEMBLY)			
(Galion Applications, except A600 & A606)			
	681 494 C92	SOLENOID ASSY (12v)-----	1
1		COVER, control unit (Not furnished as part of ASSEMBLY) (Refer to "Pump Housing and Related Parts")	
2	680 399 C1	RING, spring retaining-----	1
3	674 834 C1	WASHER, spring seat-----	1
4	NSS	PLUNGER, solenoid-----	1
5	680 407 C2	SPRING, plunger-----	1
6	674 904 C1	GASKET, solenoid-----	1
7	NSS	BODY, solenoid-----	1

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS
(DT-466B for TD-15C and 175C)



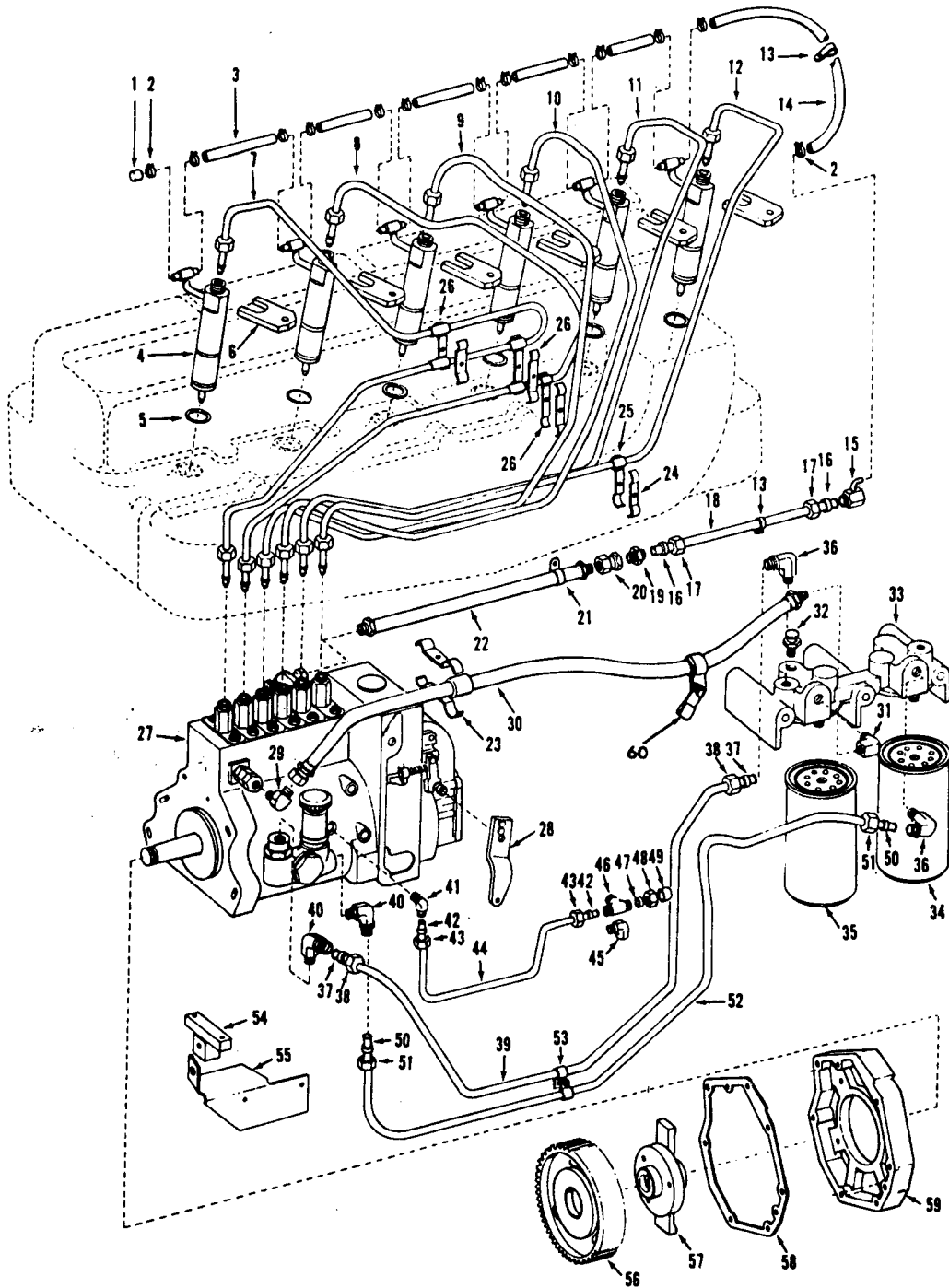
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS (DT-466B for TD-15C and 175C)			
1	1802 452 C1	PLUG, fuel return (No. 1 injector)-----	1
2	1802 453 C1	CLIP, leak off hose-----	13
3		HOSE, fuel return (injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
4	687 372 C91	NOZZEL and NOZZLE HOLDER ASSY, fuel injection (Refer to "Nozzle and Nozzle Holder")-----	6
5	682 810 C1	GROMMET, injector dust seal-----	6
6	675 479 C2 691 105 C1	CRAB, injector nozzle----- BOLT, injector crab (together with CRAB 675 479 C2, replaces BOLT, 684 497 C1; WASHER, 675 677 C1; WASHER, 684 496 C1; and CRAB, 675 479 C1. DO NOT intermix the old with the new)-----	6
7	687 408 C1	PIPE, injection (Cylinder No. 1)-----	1
8	687 409 C1	PIPE, injection (Cylinder No. 2)-----	1
9	687 410 C1	PIPE, injection (Cylinder No. 3)-----	1
10	687 411 C1	PIPE, injection (Cylinder No. 4)-----	1
11	687 412 C1	PIPE, injection (Cylinder No. 5)-----	1
12	687 413 C1	PIPE, injection (Cylinder No. 6)-----	1
13	673 193 C1 24 839 R1 25 896 R1	CLIP, tee----- SCREW, hex-hd cap----- WASHER, lock-----	1 1 1
14		HOSE, No. 6 injector to leak-off tube, 3/16" ID x 11 1/2" cut from bulk HOSE, 680 246 C1-----	1
15	680 120 C1	TEE, fuel leak off-----	1
16	265 205 R1	NUT-----	2
17	265 204 R1	SLEEVE-----	2
18	687 415 C91	TUBE, w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return lower-----	1

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(DT-466B for TD-15C and 175C)



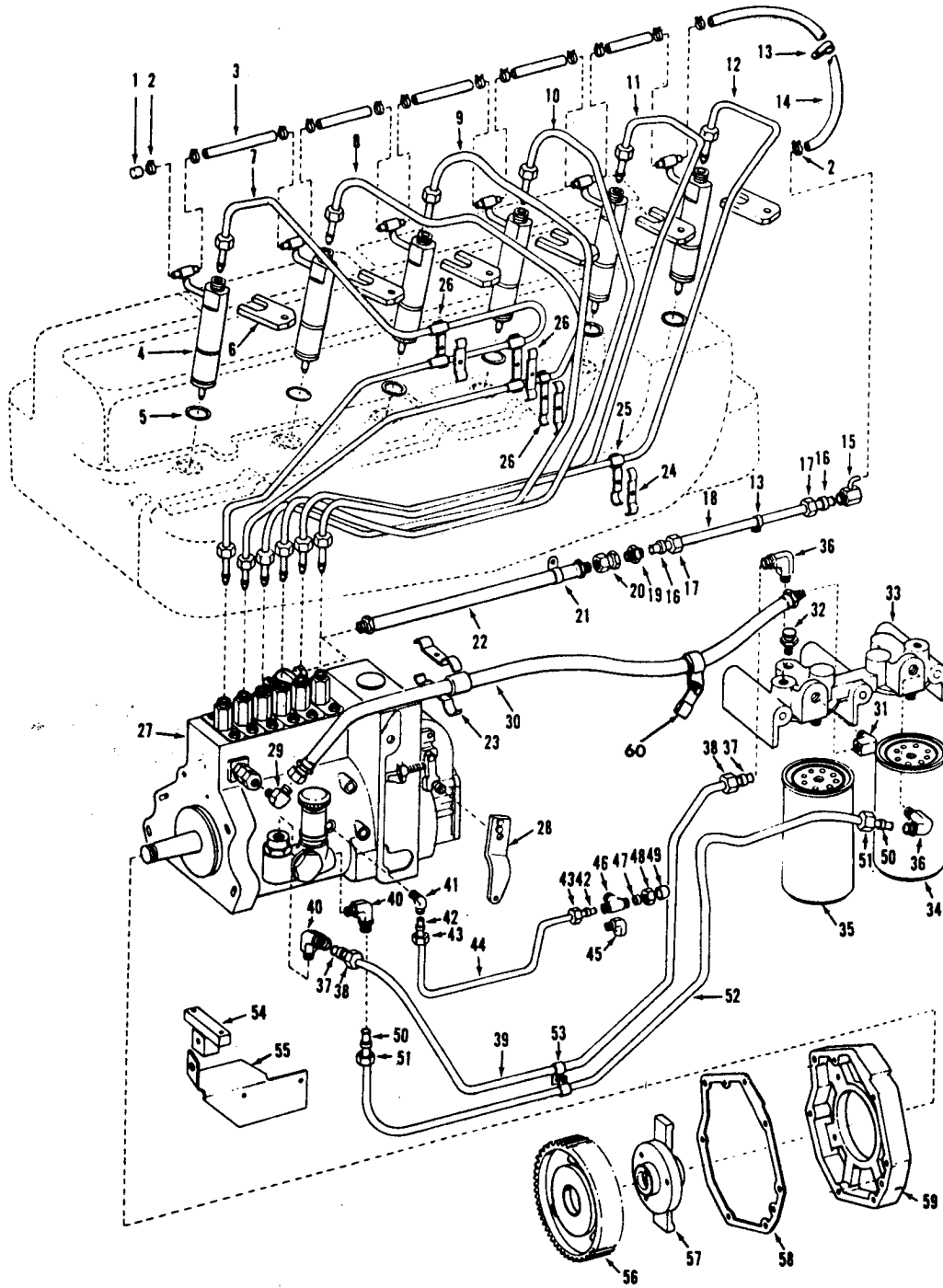
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued (DT-466B for TD-15C and 175C)			
19	606 819 C1	CONNECTOR, fuel return line-----	1
20	672 658 C1	ADAPTER, fuel return line (.062" orifice)-----	1
21	299 566 C1	CLIP-----	1
	27 750 R1	SCREW-----	1
	86 224 H	SPACER-----	1
22	680 425 C3	HOSE, fuel return lower-----	1
23	684 899 C1	CLAMP, final filter to injection pump hose and No. 4 injection pipe-----	2
	19 592 R1	NUT-----	1
	25 222 R1	SCREW, 1/4-20 x 3/4" hex-hd cap-----	1
	258 079 C1	GROMMET-----	1
	536 410 C1	GROMMET-----	1
24	673 527 C1	CLAMP, injection pipe No. 5 and 6 to injection pipe No. 3 and 4-----	2
	23 232 R1	NUT, 1/4-20-----	1
	25 491 R1	SCREW, 1/4-20 x 2 hex-hd cap-----	1
	27 616 R1	WASHER, 1/4" hardened-----	1
	258 079 C1	GROMMET-----	4
25	673 577 C1	CLAMP, duplex, injection pipe No. 5 and 6 to injection pipe No. 3 and 4-----	1
26	673 527 C1	CLAMP, injection pipe No. 1 (No. 1 to 2, No 3 to 6)--	1
	684 548 C1	NUT, 1/4-20-----	3
	25 222 R1	SCREW, 1/4-20 x 3/4" hex-hd cap-----	3
	258 079 C1	GROMMET-----	6
27		(See Individual Engine Variation)	
28	690 436 C1	LEVER, injection pump-----	1
	25 483 C1	SCREW, 1/4-20 x 1"-----	2
	27 616 C1	WASHER, 1/4" hardened-----	2
	115 109	WASHER, 1/4" lock-----	2
29	444 041	ELBOW, fuel inlet (Part of Pump)----- Refer to Pump Parts Catalog PU-71H	1
30	688 190 C1	HOSE w/FITTINGS, final filter to injection pump-----	1
31	118 755	ELBOW, 90°, final filter outlet (In filter header)---	1

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(DT-466B for TD-15C and 175C)



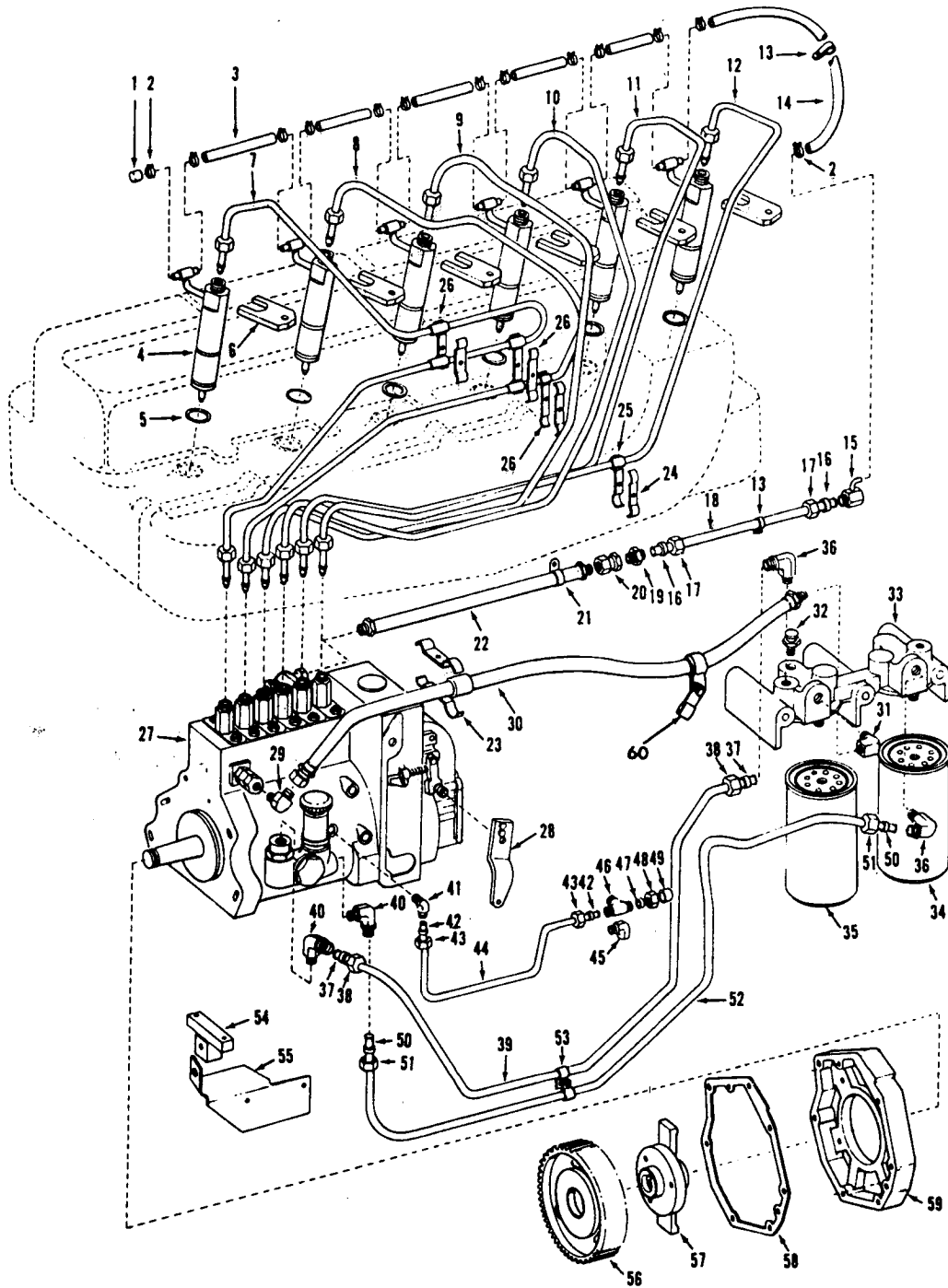
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued (DT-466B for TD-15C and 175C)			
32	39 677 DA	VALVE, filter bleed-----	1
33	1802 964 C2	HEADER, filter-----	1
	25 784 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	3
	9409 942	TEE (In filter header - final filter side)-----	1
	455 684	PLUG, pipe (In TEE)-----	1
34	625 627 C1	FILTER, primary fuel (+)-----	1
35	672 603 C2	FILTER, final fuel-----	1
36	606 845 C1	ELBOW, 90` NPT, primary filter outlet and final filter inlet (In filter header)-----	2
37	265 204 R1	SLEEVE-----	2
38	265 205 R1	NUT-----	2
39	687 420 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, injection pump to final filter-----	1
40	606 845 C1	ELBOW, fuel pump outlet and inlet-----	2
41	319 615 R1	ELBOW, lube oil inlet (In pump)-----	1
42	915 500 R1	SLEEVE-----	2
43	915 499 R1	NUT-----	2
44	687 422 C91	TUBE w/two SLEEVE, 915 500 R1 and two NUT, 915 499 R1, lube oil (injection pump to crankcase)-----	1
45	319 615 R1	ELBOW, 90` - 1/4" tube x 1/8" NPT flex, lube oil outlet (In crankcase) (for TD-15C)-----	1
46	610 713 C1	TEE, lube oil outlet (In crankcase) (for 175C)-----	1
47	915 500 R1	SLEEVE (for 175C)-----	1
48	915 499 R1	NUT (for 175C)-----	1
49	672 750 C1	PLUG (In crankcase Tee) (for 175C)-----	1
		(+) - For units equipped w/water separator ATTACHMENT, order FILTER, 702 255 C1	

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(DT-466B for TD-15C and 175C)



CG-5666A

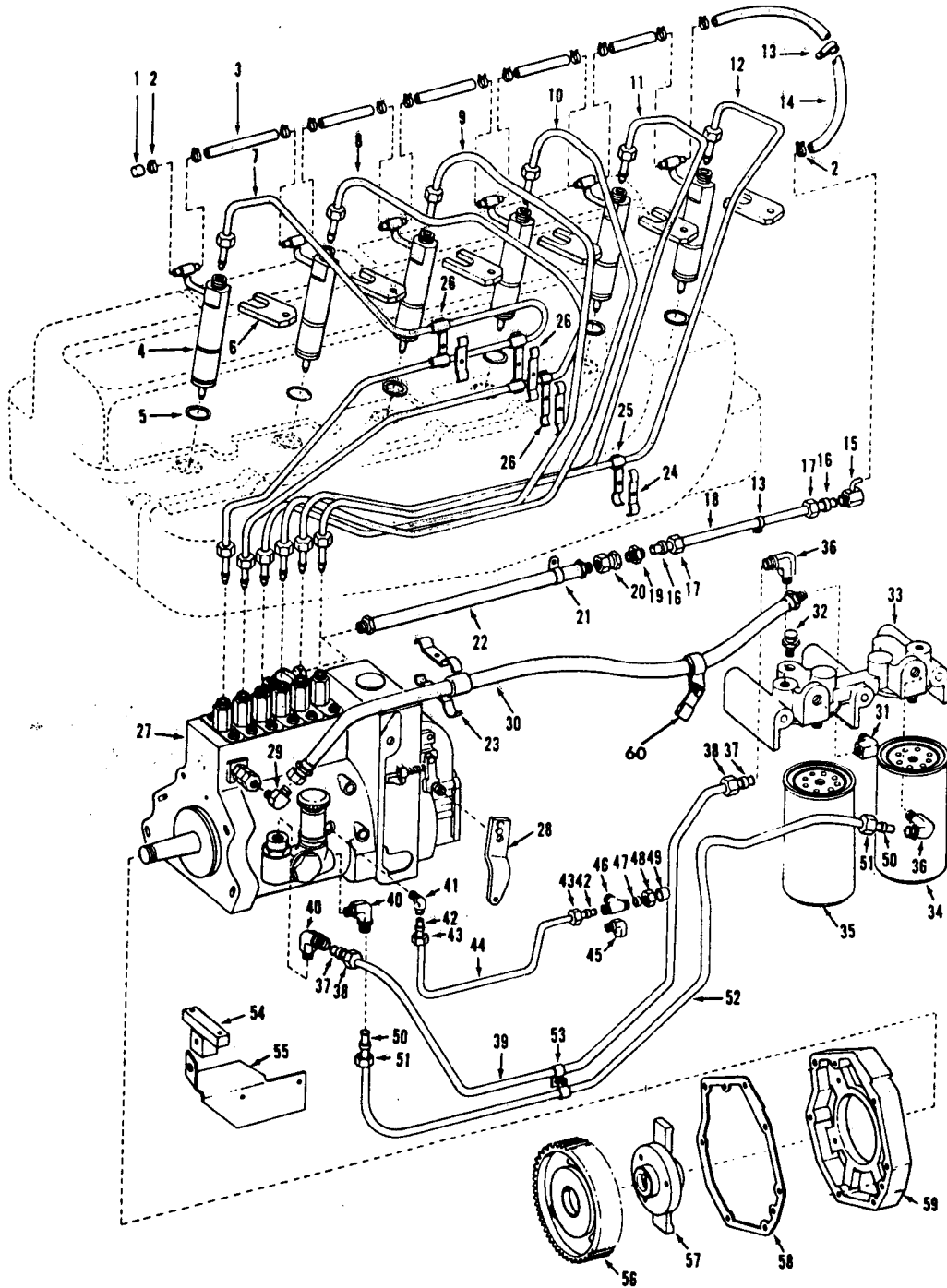
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued (DT-466B for TD-15C and 175C)			
50	265 204 R1	SLEEVE-----	2
51	265 205 R1	NUT-----	2
52	687 418 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary filter to injection pump-----	1
53	299 902 R1	CLAMP, lube oil to primary filter fuel tube-----	2
54	688 972 C1	SUPPORT, injection pump-----	1
	25 751 R1	SCREW, 5/16" x 1-1/4" (Used with pump support boss 5/16" thread ONLY)-----	2
	30 003 R1	SCREW, 8 x 25 mm (Used with pump support boss - 8 mm thread ONLY)-----	AR
	25 543 R1	WASHER, hardened-----	2
	24 838 R1	SCREW, 3/8-16 x 1/2"-----	1
	25 553 R1	WASHER, 1/8" plain-----	1
55	689 552 C1	BRACKET, injection pump mounting (to crankcase)-----	1
	24 839 R1	SCREW, 3/8-16 x 3/4"-----	2
	25 544 R1	WASHER, 3/8 hardened-----	2
56	687 428 C1	GEAR, injection pump-----	1
	24 840 R1	SCREW, 3/8-16 x 1"-----	3
	25 544 R1	WASHER, 3/8 hardened-----	3
57		HUB, injection pump gear (part of pump) (*)-----	1
58	675 609 C1	GASKET, injection pump mounting adapter-----	1
59		ADAPTER ASSY., inj. pump mounting (part of pump) (*)	1
	25 235 R1	SCREW, 2-1/2"-----	2
	444 944	PLUG, adapter window-----	1
	689 568 C1	GASKET, adapter window-----	1
60	691 144 C1	CLAMP, closed hose-----	1
	536 410	GROMMET-----	1
	299 407 C1	CLAMP-----	1
	24 840 R1	SCREW, 3/8-16 x 1"-----	1
	25 522 R1	NUT, 3/8-16-----	1
	25 544 R1	WASHER, 3/8" hardened-----	1
	103 321	WASHER, 3/8" lock-----	1
	680 246 C1	HOSE, 3/16" ID x 120"-----	AR

(*) - Refer to Pump Parts Catalog PU-71H

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(DT-466B for TD-15C and 175C)



CG-5666A

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued			
(DT-466B for TD-15C and 175C)			

ENGINE VARIATIONS

(DT-466B for TD-15C)

27	687 498 C91	PUMP ASSY, fuel injection (153 HP @ 2500 RPM) (Order 687 498 C92)(*) (See NOTE)-----	1
	30 003 R1	SCREW, 8 x 25 mm (Used with pump support boss - 8 mm thread ONLY)-----	AR
	25 751 R1	SCREW, 5/16" x 1-1/4" (Used with pump support boss 5/16" thread ONLY)-----	2
	25 543 R1	WASHER-----	2
	678 026 C1	WIRE, long-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	4
	25 544 R1	WASHER, 3/8" hardened-----	4
	25 750 R1	SCREW, 5/16-18 x 1-3/4"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1
	933 222 R1	GASKET, lift port closure plug-----	1

(DT-466B for 175C)

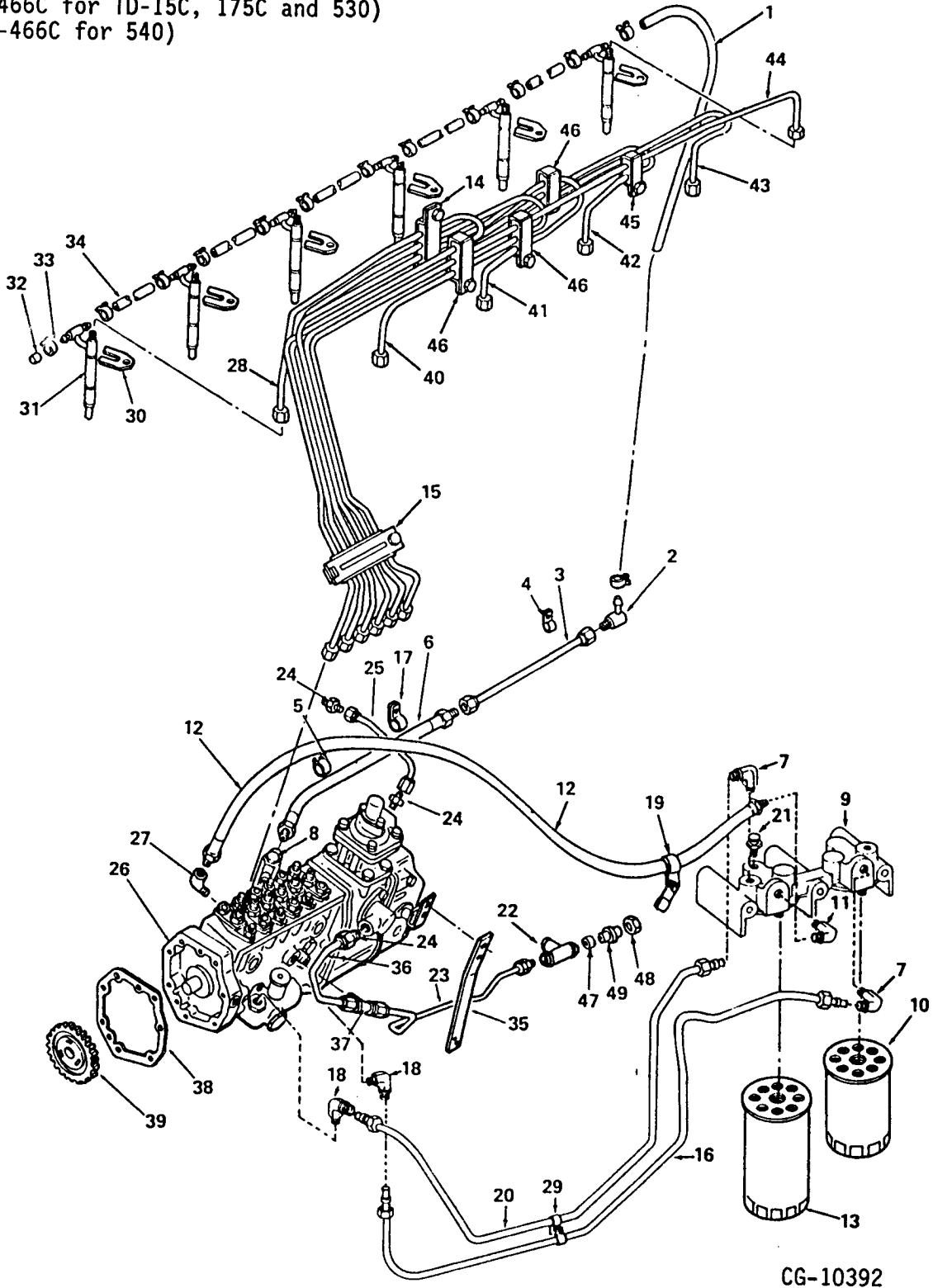
27	687 499 C91	PUMP ASSY, fuel injection (146 HP @ 2400 RPM) (Order 687 499 C92)(*) (See NOTE)-----	1
	30 003 R1	SCREW, 8 x 25 mm (Used with pump support boss - 8 mm thread ONLY)-----	AR
	25 751 R1	SCREW, 5/16" x 1-1/4" (Used with pump support boss 5/16" thread ONLY)-----	2
	25 543 R1	WASHER-----	2
	678 026 C1	WIRE, long-----	2
	687 459 C1	LOCK, seal wire-----	2
	25 523 R1	NUT-----	4
	25 544 R1	WASHER, 3/8" hardened-----	4
	25 750 R1	SCREW, 5/16-18 x 1-3/4"-----	1
	25 543 R1	WASHER, 5/16" hardened-----	1
	933 222 R1	GASKET, lift port closure plug-----	1

(*) - Reference Service Bulletin A-12H-40B

NOTE: Refer to Robert Bosch Fuel Injection Pump
Parts Catalog PU-71H when ordering detail
parts for complete pump.

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS
(DT-466C for TD-15C, 175C and 530)
(DTI-466C for 540)

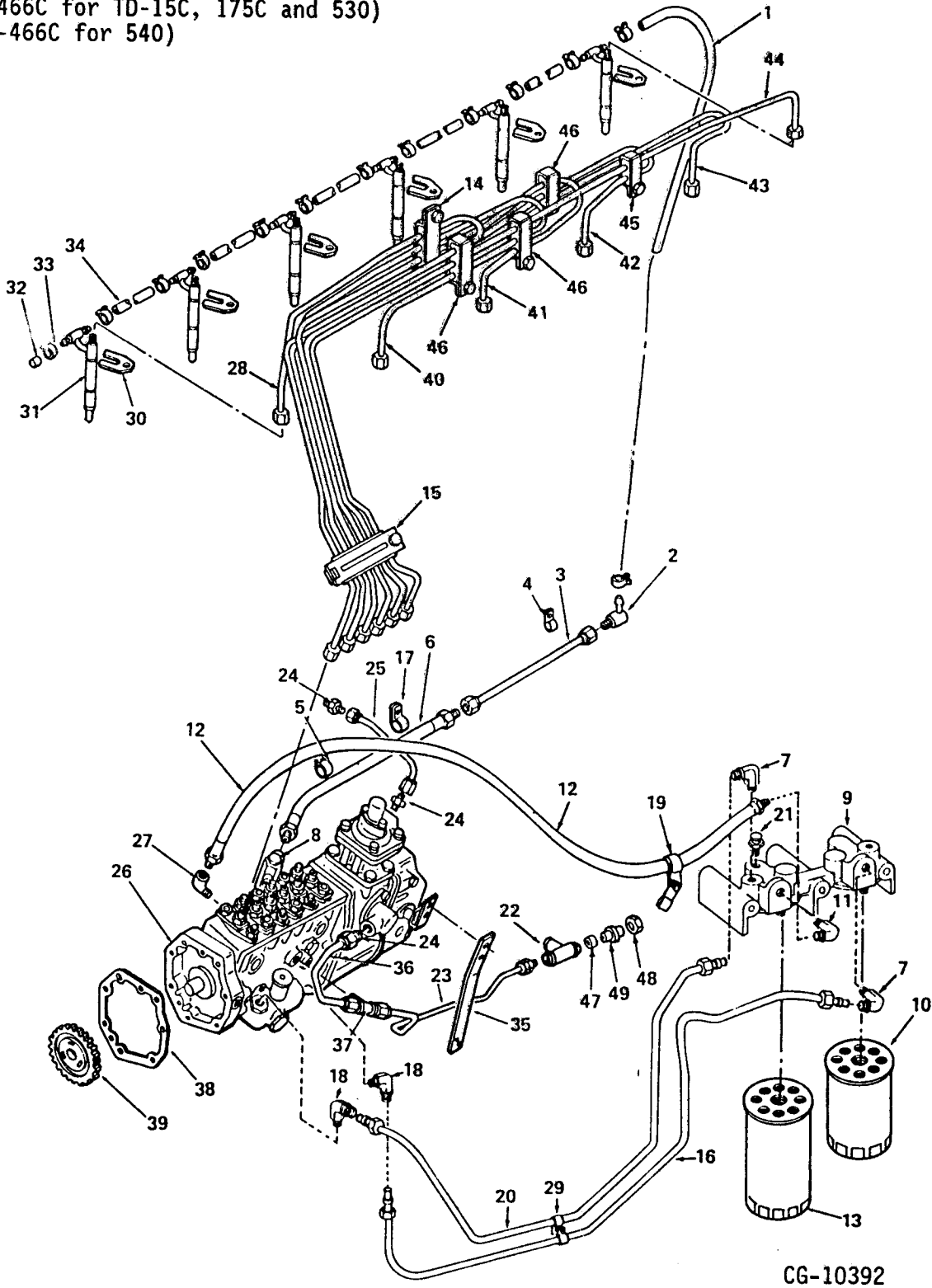


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS (DT-466C for TD-15C, 175C and 530) (DTI-466C for 540)			
1		HOSE, No. 6 injector to leak off tube, 3/16" ID x 11-1/2" cut from bulk HOSE, 680 246 C1-----	1
2	673 196 C1	TEE, (w/straight tube), fuel leak off (530, 540)-----	1
2	680 120 C1	TEE, (w/curved tube), fuel leak off (TD-15C, 175C)---	1
3	691 074 C92	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return-----	1
	265 205 R1	NUT-----	2
	265 204 R1	SLEEVE-----	2
4	680 116 C1	CLIP, fuel return tube-----	1
	25 768 R1	SCREW, 3/8-16 x 5/8" hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
5	299 566 C1	CLAMP, fuel return hose-----	1
	27 439 R1	SCREW, 5/16 x 1-3/4" prevailing torque-----	1
	27 326 R1	WASHER, 5/16" hardened-----	1
6	1806 503 C1	HOSE w/ORIFICE, fuel return (.046")-----	1
7	606 845 C1	ELBOW, 90', primary filter outlet and final filter inlet (in filter header)-----	2
8	670 889 C91	VALVE ASSY, check and overflow (part of injection pump assy)-----	1
	444 041	ELBOW, 90° pipe (part of injection pump assy)-----	1
9	1802 964 C2	HEADER, filter-----	1
	25 784 R1	SCREW, 3/8-16 x 4-1/4" hex-hd cap-----	3
	25 896 R1	WASHER, 3/8" hardened-----	3
10	625 627 C1	FILTER, primary fuel-----	1
11	118 755	ELBOW, 90', final filter outlet (in filter header)---	1
12	688 190 C1	HOSE w/FITTINGS, final filter to injection pump-----	1
13	672 603 C2	FILTER, final fuel-----	1
14	1802 800 C91	CLAMP ASSY, injection pipe (5 pipes)-----	1
15	1802 947 C91	CLAMP ASSY, injection pipe (6 pipes)-----	1

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(DT-466C for TD-15C, 175C and 530)
(DTI-466C for 540)



FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued (DT-466C for TD-15C, 175C and 530) (DTI-466C for 540)			
16	687 418 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, primary filter to injection pump supply pump-----	1
	265 204 R1	SLEEVE, tube-----	2
	265 205 R1	NUT, tube fitting-----	2
17	299 566 C1	CLAMP, fuel return hose-----	1
	689 324 C1	STUD BOLT-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	116 120	WASHER, 5/16" lock-----	1
	25 521 R1	NUT, 5/16" NF hex-----	2
18	606 845 C1	ELBOW, fuel pump outlet and inlet-----	2
19	691 144 C1	CLAMP, closed hose-----	1
	534 410 R1	GROMMET-----	1
	299 566 C1	CLAMP-----	2
	24 840 R1	SCREW, 3/8-16 x 1" hex-hd cap-----	1
	25 522 R1	NUT, 3/8" hex-----	1
	25 896 R1	WASHER, 3/8" hardened -----	2
20	687 420 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, injection pump supply pump to final filter-----	1
	265 204 R1	SLEEVE, tube-----	2
	265 205 R1	NUT, tube fitting-----	2
21	39 677 DA	VALVE, filter bleed-----	1
22	610 713 C1	TEE, injection pump lube oil (in crankcase)----- (530, 540, TD-15C)	1
22	319 615 R1	ELBOW, injection pump lube oil (in crankcase)----- (175C)	1
23	1802 773 C91	TUBE w/two SLEEVE, 685 158 C1 and two NUT, 915 499 R1, lube oil-----	1
	685 158 C1	SLEEVE, tube-----	2
	915 499 R1	NUT, tube fitting-----	2
24	606 885 C1	CONNECTOR, tube (540)-----	3
25	1802 777 C91	TUBE w/two SLEEVE, 685 158 C1 and two NUT, 915 499 R1, aneroid (540)-----	1
	685 158 C1	SLEEVE, tube-----	2
	915 499 R1	NUT, tube fitting-----	2

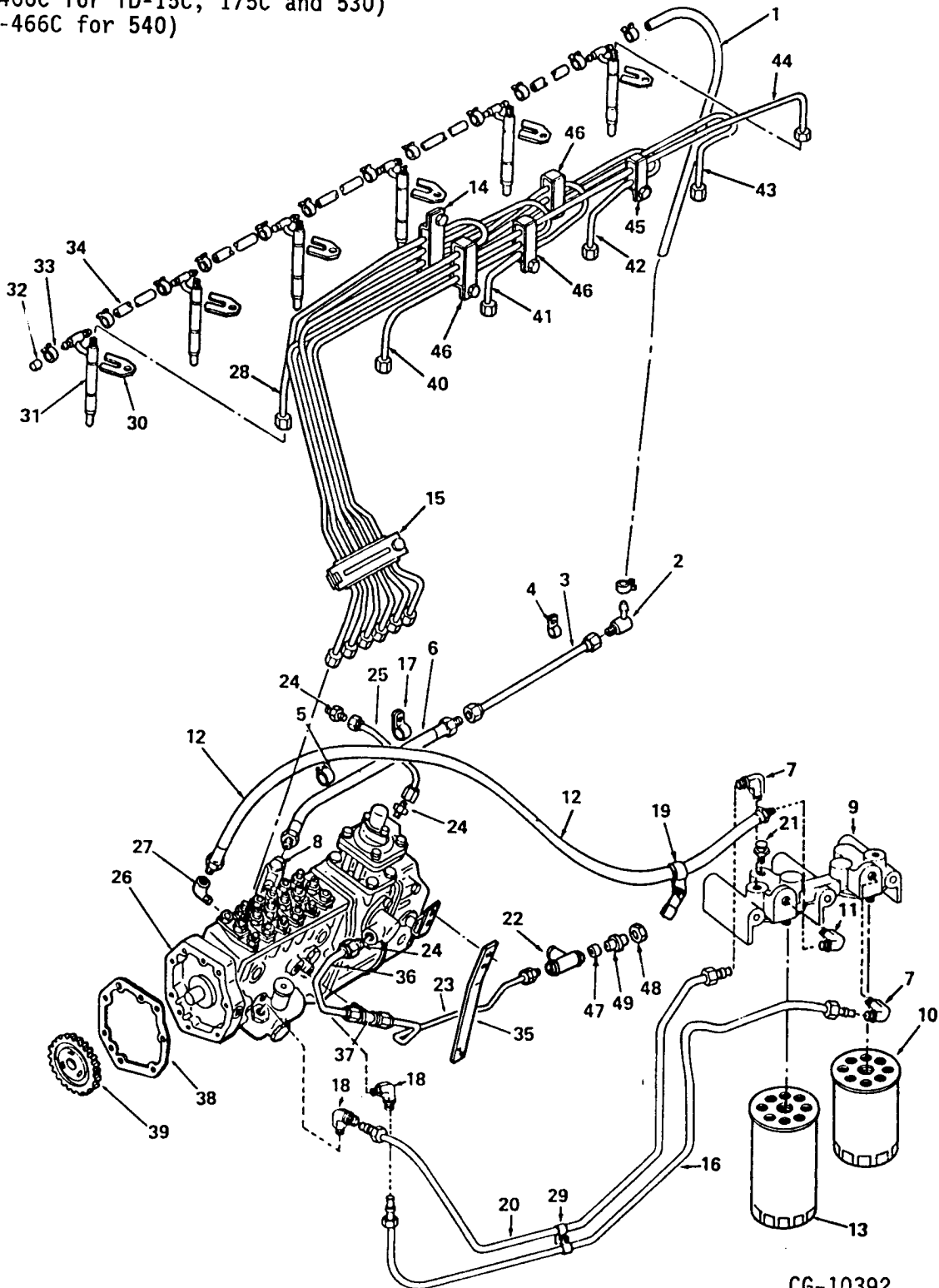
FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued (DT-466C for TD-15C, 175C and 530) (DTI-466C for 540)			
26	687 498 C92	PUMP ASSY, fuel inj. (153 HP @ 2500 RPM) (TD-15C) (+)	1
26	687 499 C92	PUMP ASSY, fuel inj. (146 HP @ 2500 RPM) (175C) (+)--	1
26	1806 982 C91	PUMP ASSY, fuel inj. (165 HP @ 2500 RPM) (530) (+)---	1
26	1808 120 C91	PUMP ASSY, fuel injection (215 HP @ 2400 RPM) (540)-- (Service parts not yet available)	1
	25 235 R1	SCREW, 5/16 x 2-1/2" hex-hd cap-----	2
	25 232 R1	SCREW, 5/16 x 2" hex-hd cap-----	1
	25 533 R1	WASHER, 5/16" plain-----	2
	25 552 R1	WASHER, 5/16" hardened-----	1
	678 026 C1	WIRE, seal (26 gauge)-----	2
	687 459 C1	LOCK, seal wire-----	2
	444 944	PLUG, 3/4-16 pump adapter window-----	1
	689 568 C1	GASKET, pump adapter window-----	1
27	444 040	ELBOW, 90° fuel inlet-----	1
28	1802 951 C1	PIPE, injection (Cylinder No. 1)-----	1
29	299 902 R1	CLAMP, fuel tube-----	2
	24 839 R1	SCREW, 3/8 x 3/4" hex-hd cap-----	1
	25 544 R1	WASHER, 3/8" hardened-----	1
30	675 479 C2	CRAB, injector nozzle-----	6
	691 105 C1	BOLT, injector crab-----	6
31	687 372 C91	NOZZLE and NOZZLE HOLDER ASSY, fuel injection----- (Refer to "Nozzle and Nozzle Holder")	6
	682 810 C1	GROMMET, injector dust seal-----	6
32	1802 452 C1	CAP, fuel return (No. 1 injector)-----	1
33	1802 453 C1	CLIP, leak off hose-----	13
34		HOSE, fuel return (injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
35	1208 156 H91	LEVER, control (530, 540)-----	1
	30 193 R1	BOLT, M6 x 20-----	2
	25 542 R1	WASHER, 1/4" hardened-----	4
	25 532 R1	WASHER, hardened-----	2

(+) - Refer to "Fuel Injection Pump"

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(DT-466C for TD-15C, 175C and 530)
(DTI-466C for 540)



FUEL SYSTEM

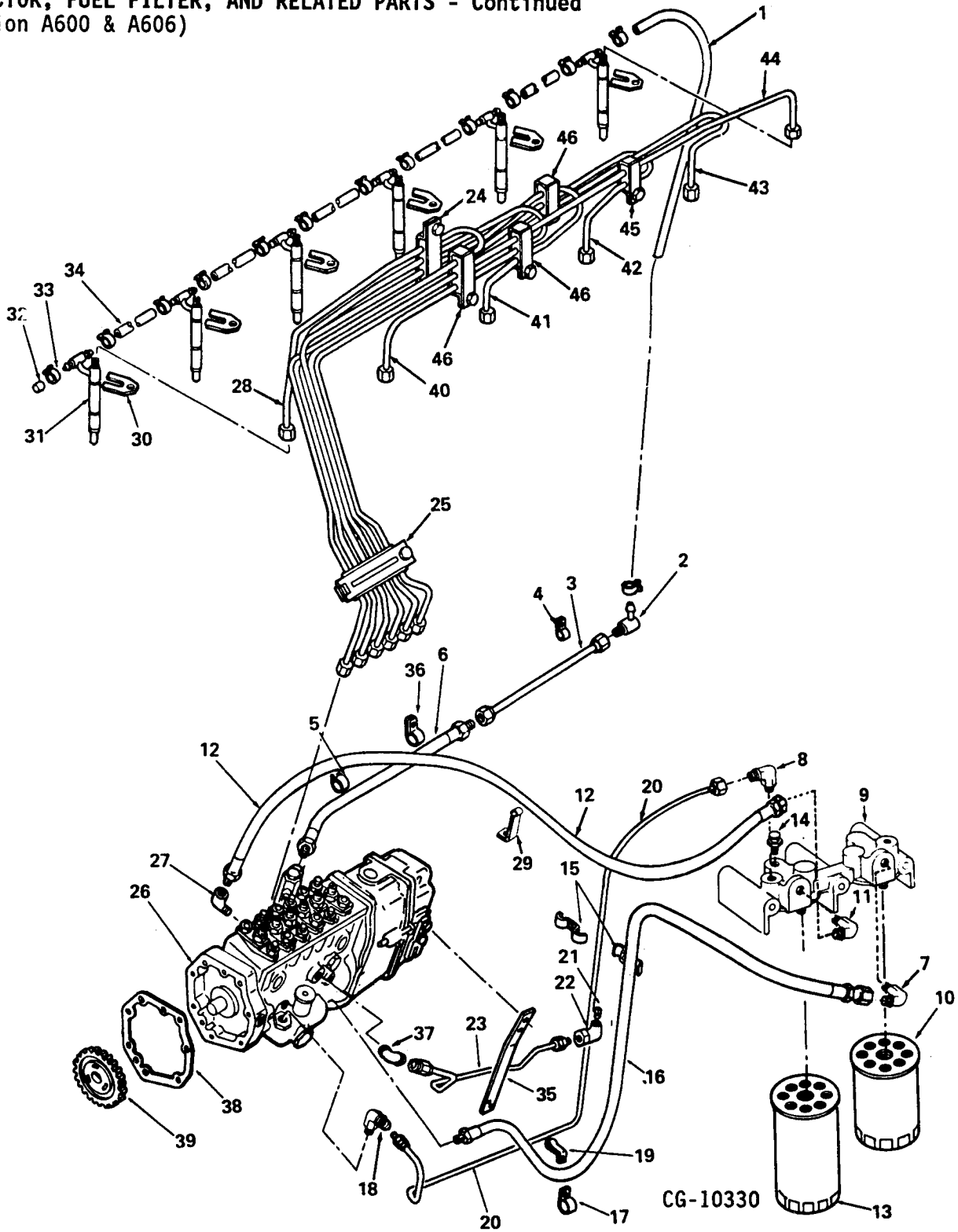
Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued			
(DT-466C for TD-15C, 175C and 530)			
(DTI-466C for 540)			
35	690 436 C11	LEVER, control (TD-15C, 175C)-----	1
	25 483 R1	SCREW-----	2
	27 616 R1	WASHER, 1/4" hardened-----	2
	115 109	WASHER, 1/4" lock-----	2
36	1802 775 C91	TUBE w/two SLEEVE, 685 158 C1 and two NUT, 915 499 R1, excess fuel device (540)-----	1
	685 158 C1	SLEEVE, tube-----	2
	915 499 R1	NUT, tube fitting-----	2
37	610 713 C1	TEE, injection pump lube oil (in pump) (540)-----	1
37	319 615 R1	ELBOW, injection pump lube oil (in pump)----- (530, TD-15C, 175C)	1
38	675 609 C1	GASKET, injection pump mounting adapter-----	1
39	1802 737 C1	GEAR, injection pump-----	1
	24 840 R1	SCREW, 3/8 x 1" hex-hd cap-----	3
	25 544 R1	WASHER, 3/8" hardened-----	3
40	1802 952 C1	PIPE, injection (Cylinder 2)-----	1
41	1802 953 C1	PIPE, injection (Cylinder 3)-----	1
42	1802 954 C1	PIPE, injection (Cylinder 4)-----	1
43	1802 955 C1	PIPE, injection (Cylinder 5)-----	1
44	1802 956 C1	PIPE, injection (Cylinder 6)-----	1
45	1802 796 C91	CLAMP ASSY, injection pipe (2 pipes)-----	1
46	1802 959 C91	CLAMP ASSY, injection pipe (3 pipes)-----	3
47	915 500 R1	SLEEVE, fitting (TD-15C)-----	1
48	915 499 R1	NUT, coupling (TD-15C)-----	1
49	672 750 C1	PLUG, lube oil fitting (TD-15C)-----	1
	680 246 C1	HOSE, 3/16" ID x 120" -----	AR

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS (Galion A600 & A606)			
1		HOSE, No. 6 injector to leak off tube, 3/16" ID x 10" cut from bulk HOSE, 680 246 C1-----	1
2	673 196 C1	TEE, fuel leak off-----	1
3	691 074 C92	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, fuel return-----	1
	265 205 R1	NUT-----	2
	265 204 R1	SLEEVE-----	2
4	680 116 C1	CLIP, fuel return tube-----	1
	25 768 R1	SCREW, 3/8-16 x 5/8" hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
5	299 566 C1	CLAMP, fuel return hose-----	1
	86 224 H	SPACER, 1/4 pipe-----	1
	27 439 R1	SCREW, 5/16 x 1-3/4" prevailing torque-----	1
	27 326 R1	WASHER, 5/16" hardened-----	1
6	1806 503 C1	HOSE w/ORIFICE, fuel return (.046")-----	1
7	55 541 R1	ELBOW, 90', primary filter outlet-----	2
8	606 845 C1	ELBOW, 90', final filter inlet (in filter header)----	1
9	1802 964 C2	HEADER, filter-----	1
	25 784 R1	SCREW, 3/8-16 x 4-1/4" hex-hd cap-----	3
	25 896 R1	WASHER, 3/8" hardened-----	3
10	625 627 C1	FILTER, primary fuel-----	1
11	118 755	ELBOW, 90', final filter outlet (in filter header)---	1
12	688 190 C1	HOSE w/FITTINGS, final filter to injection pump-----	1
13	672 603 C2	FILTER, final fuel-----	1
14	39 677 DA	VALVE, filter bleed-----	1
15	684 899 C1	CLAMP, primary filter to pump hose and pump to final filter tube-----	2
	684 548 C1	NUT, spring-----	1
	25 222 R1	SCREW, 1/4" x 3/4" hex-hd cap-----	1
	673 171 C1	GROMMET, tube-----	1
	1806 408 C1	CUSHION, hose-----	1

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(Galion A600 & A606)

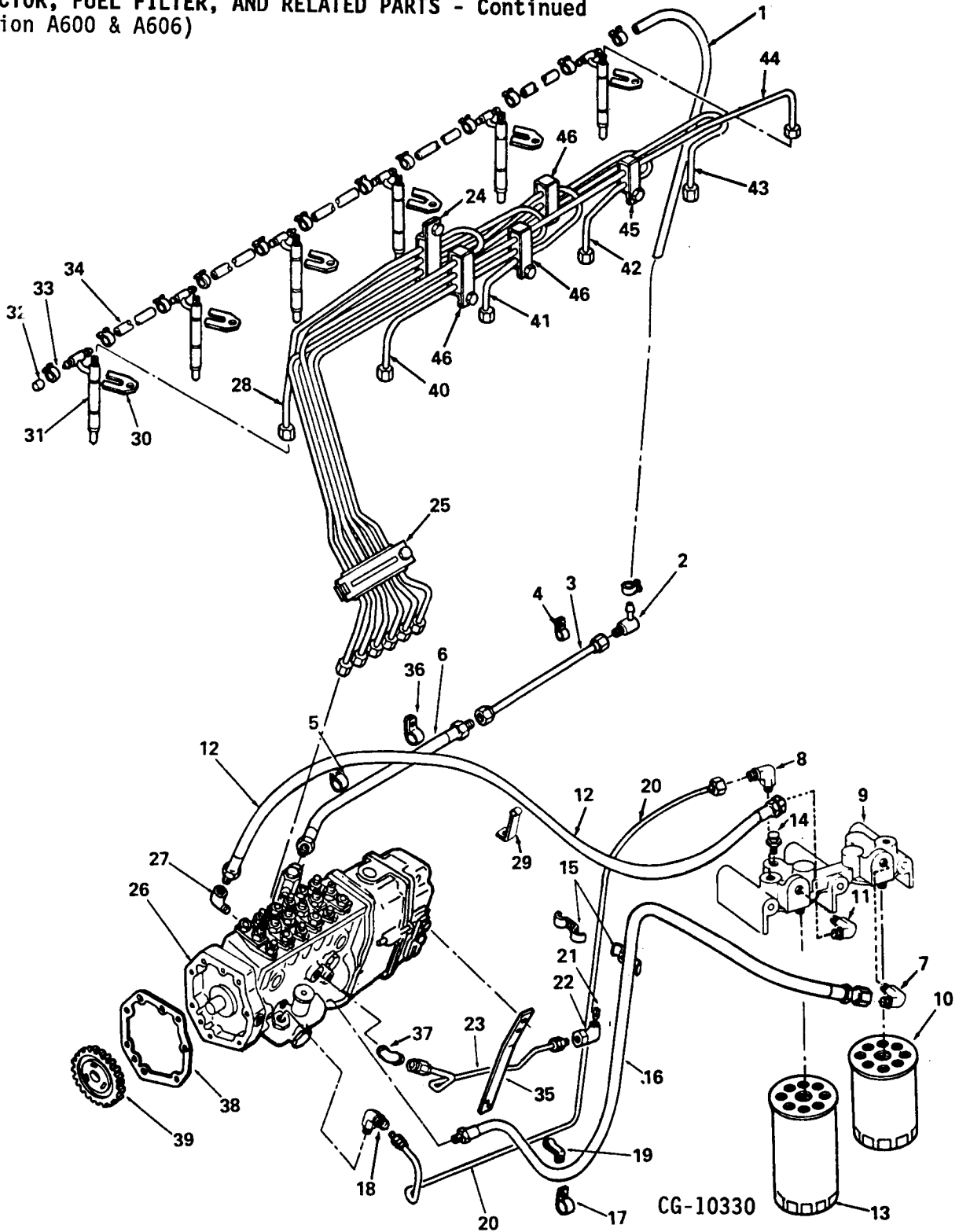


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued (Galion A600 & A606)			
16	1802 982 C1	HOSE w/FITTINGS, pri. filter to inj. pump supply pump	1
17	299 566 C1	CLAMP, primary filter hose-----	1
18	606 845 C1	ELBOW, fuel pump outlet-----	1
19	1802 981 C1	CLAMP, pump to final filter tube-----	1
	24 839 R1	SCREW, 3/8-16 x 3/4" hex-hd cap-----	1
	25 896 R1	WASHER 3/8" hardened-----	2
20	1806 022 C91	TUBE w/two SLEEVE, 265 204 R1 and two NUT, 265 205 R1, injection pump supply pump to final filter-----	1
	265 204 R1	SLEEVE, tube-----	2
	265 205 R1	NUT, tube fitting-----	2
21	444 612	PLUG, 1/8-27 pipe-----	1
22	686 839 C1	ELBOW 90' flex, lube oil outlet (in crankcase)-----	1
23	1802 773 C91	TUBE w/two SLEEVE, 685 158 C1 and two NUT, 915 499 R1, lube oil-----	1
	685 158 C1	SLEEVE, tube-----	2
	915 499 R1	NUT, tube fitting-----	2
24	1802 800 C91	CLAMP ASSY, injection pipe (5 pipes)-----	1
25	1802 947 C91	CLAMP ASSY, injection pipe (6 pipes)-----	1
26	1802 612 C92	PUMP ASSY, fuel injection (210 HP @ 2500 RPM)-----	1
	25 235 R1	SCREW, 5/16 x 2-1/2" hex-hd cap-----	2
	25 232 R1	SCREW, 5/16 x 2" hex-hd cap-----	1
	25 533 R1	WASHER, 5/16" plain-----	2
	25 552 R1	WASHER, 5/16" hardened-----	1
	678 026 C1	WIRE, seal (26 gauge)-----	2
	687 459 C1	LOCK, seal wire-----	2
	444 944	PLUG, 3/4-16 pump adapter window-----	1
	689 568 C1	GASKET, pump adapter window-----	1
27	444 040	ELBOW, 90' fuel inlet-----	1
28	1802 951 C1	PIPE, injection (Cylinder No. 1)-----	1
29	1806 044 C1	CLAMP, final filter to pump hose-----	2
30	675 479 C2	CRAB, injector nozzle-----	6
	691 105 C1	BOLT, injector crab-----	6

FUEL SYSTEM

R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE,
INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued
(Galion A600 & A606)

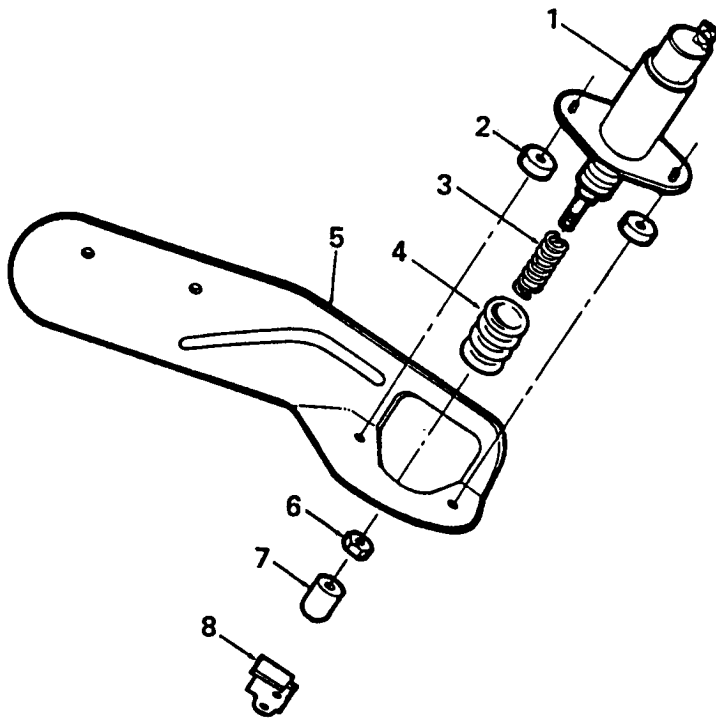


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
R. BOSCH INJECTION PUMP, INJECTION PUMP DRIVE, INJECTOR, FUEL FILTER, AND RELATED PARTS - Continued (Galion A600 & A606)			
31	687 372 C91	NOZZLE and NOZZLE HOLDER ASSY, fuel injection----- (Refer to "Nozzle and Nozzle Holder")	6
	682 810 C1	GROMMET, injector dust seal-----	6
32	1802 452 C1	CAP, fuel return (No. 1 injector)-----	1
33	1802 453 C1	CLIP, leak off hose-----	13
34		HOSE, fuel return (injector to injector) 3/16" ID x 5" cut from bulk HOSE, 680 246 C1-----	5
35	1803 238 C2	LEVER, control-----	1
	30 192 R1	BOLT, M6 x 16-----	2
	25 542 R1	WASHER, 1/4" hardened-----	4
	120 380 R1	WASHER, 1/4" lock-----	2
36	299 566 C1	CLAMP, fuel return hose-----	1
	86 224 H	SPACER, 1/4" pipe-----	1
	689 324 C1	STUD BOLT-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	116 120	WASHER, 5/16" lock-----	1
	25 521 R1	NUT 5/16" NF hex-----	1
37	319 615 R1	ELBOW, lube oil inlet (in pump)-----	1
38	675 609 C1	GASKET, injection pump mounting adapter-----	1
39	1802 737 C1	GEAR, injection pump-----	1
	24 840 R1	SCREW, 3/8 x 1" hex-hd cap-----	3
	25 544 R1	WASHER, 3/8" hardened-----	3
40	1802 952 C1	PIPE, injection (Cylinder 2)-----	1
41	1802 953 C1	PIPE, injection (Cylinder 3)-----	1
42	1802 954 C1	PIPE, injection (Cylinder 4)-----	1
43	1802 955 C1	PIPE, injection (Cylinder 5)-----	1
44	1802 956 C1	PIPE, injection (Cylinder 6)-----	1
45	1802 796 C91	CLAMP ASSY, injection pipe (2 pipes)-----	1
46	1802 959 C91	CLAMP ASSY, injection pipe (3 pipes)-----	3
	680 246 C1	HOSE, 3/16" ID x 120" -----	AR

FUEL SYSTEM

ELECTRIC SHUT-OFF AND MOUNTING FOR R. BOSCH INJECTION PUMP (Galion A600 & A606)



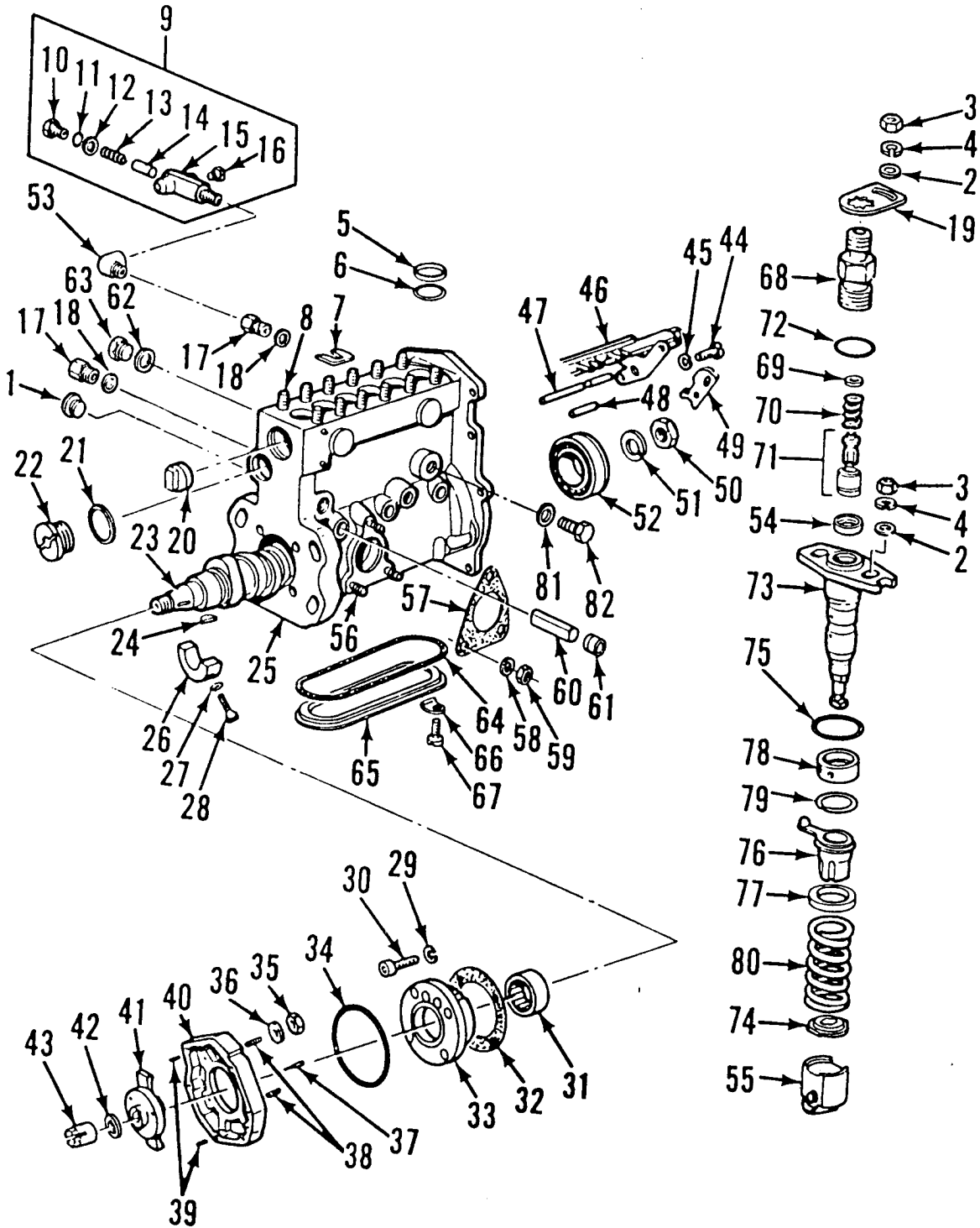
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FUEL SYSTEM

Ref No	Part Number	Description	Quantity
ELECTRIC SHUT-OFF AND MOUNTING FOR R. BOSCH INJECTION PUMP (Galion A600 & A606)			
1	1803 195 C91	SOLENOID ASSY w/BOOT, 1800 295 C1 and SPRING, 1800 294 C1, injection pump electric shut-off----	1
	180 079	SCREW, 5/16" x 1" (znd) hex-hd cap-----	2
	120 214	WASHER, 5/16 (znd) lock-----	2
2	23 776 D	SPACER, electric shut-off solenoid mounting-----	2
3	1800 294 C1	SPRING, electric shut-off solenoid return-----	1
4	1800 295 C1	BOOT, electric shut-off solenoid dust-----	1
5	1803 194 C1	BRACKET w/two NUT, solenoid mounting-----	1
	180 121	SCREW, 3/8" x 7/8" (znd) hex-hd cap-----	2
	120 382	WASHER, 3/8" (znd) lock-----	2
6	26 030 R1	NUT, 1/4" NF hex-----	1
7	1802 988 C1	TAPPET, electric shut-off solenoid-----	1
8	1806 202 C1	LEVER, electric shut-off solenoid-----	1
	455 858	SCREW, No. 10-24 x 1/2" hex-hd-----	1
	115 707	WASHER, No. 10 lock-----	1
	26 303 R1	NUT, No. 10-24 hex-----	1

FUEL SYSTEM

INJECTION PUMP (ROBERT BOSCH)

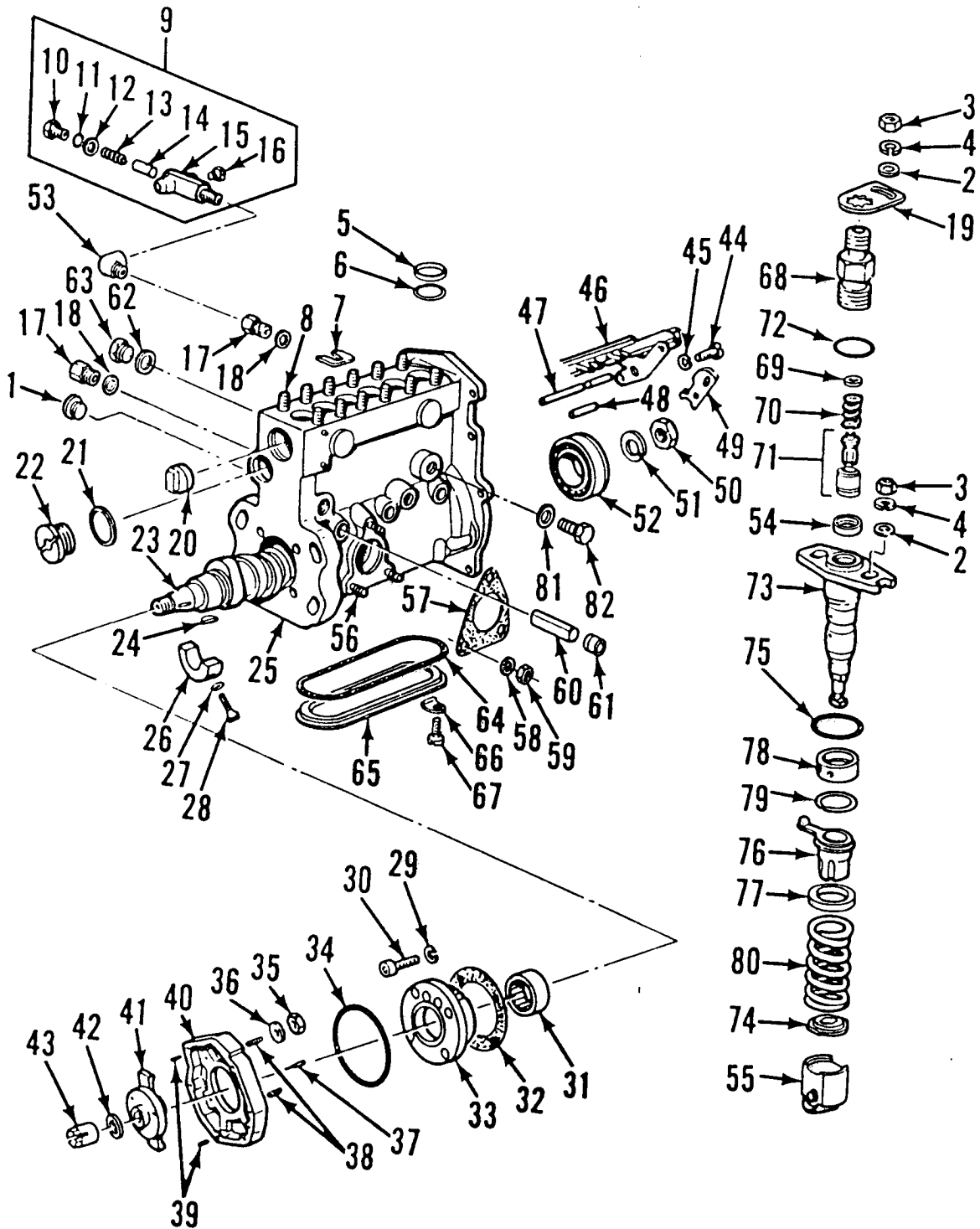


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP (ROBERT BOSCH)			
	1802 612 C92	PUMP ASSY, injection (A600 & A606 Graders)-----	1
	1806 982 C91	PUMP ASSY, injection (530 Loader)-----	1
	687 498 C92	PUMP ASSY, injection (TD-15C Crawler Dozer)-----	1
	687 499 C92	PUMP ASSY, injection (175C Crawler Loader)-----	1
1	1806 293 C1	PLUG, housing screw-----	1
2	1806 270 C1	SPACER, housing stud and plunger plate lock-----	18
3	691 265 C1	NUT, pump housing stud and plunger plate lock-----	18
4	933 983 R1	WASHER, housing stud and plunger plate lock-----	18
5	691 261 C1	SPACER, housing plunger-----	6
6	691 262 C1	"O" RING, housing plunger-----	6
7	1802 256 C1	SHIM, plunger and barrel (1.0 mm)-----	AR
	1802 257 C1	SHIM, plunger and barrel (1.05 mm)-----	AR
	1802 258 C1	SHIM, plunger and barrel (1.1 mm)-----	AR
	1802 259 C1	SHIM, plunger and barrel (1.15 mm)-----	AR
	1802 260 C1	SHIM, plunger and barrel (1.2 mm)-----	AR
	1802 261 C1	SHIM, plunger and barrel (1.25 mm)-----	AR
	1802 262 C1	SHIM, plunger and barrel (1.3 mm)-----	AR
	1802 263 C1	SHIM, plunger and barrel (1.35 mm)-----	AR
	1802 264 C1	SHIM, plunger and barrel (1.4 mm)-----	AR
	1802 265 C1	SHIM, plunger and barrel (1.45 mm)-----	AR
	1802 266 C1	SHIM, plunger and barrel (1.5 mm)-----	AR
	1802 267 C1	SHIM, plunger and barrel (1.55 mm)-----	AR
	691 315 C1	SHIM, plunger and barrel (1.6 mm)-----	AR
	691 316 C1	SHIM, plunger and barrel (1.65 mm)-----	AR
	691 317 C1	SHIM, plunger and barrel (1.7 mm)-----	AR
	691 318 C1	SHIM, plunger and barrel (1.75 mm)-----	AR
	691 319 C1	SHIM, plunger and barrel (1.8 mm)-----	AR
	691 320 C1	SHIM, plunger and barrel (1.85 mm)-----	AR
	691 321 C1	SHIM, plunger and barrel (1.9 mm)-----	AR
	691 322 C1	SHIM, plunger and barrel (1.95 mm)-----	AR
	691 323 C1	SHIM, plunger and barrel (2.0 mm)-----	AR
	691 324 C1	SHIM, plunger and barrel (2.05 mm)-----	AR
	691 325 C1	SHIM, plunger and barrel (2.1 mm)-----	AR
	691 326 C1	SHIM, plunger and barrel (2.15 mm)-----	AR
	691 327 C1	SHIM, plunger and barrel (2.2 mm)-----	AR
	691 328 C1	SHIM, plunger and barrel (2.25 mm)-----	AR
	691 329 C1	SHIM, plunger and barrel (2.3 mm)-----	AR
	691 330 C1	SHIM, plunger and barrel (2.35 mm)-----	AR
	691 331 C1	SHIM, plunger and barrel (2.4 mm)-----	AR
	691 332 C1	SHIM, plunger and barrel (2.45 mm)-----	AR
	691 333 C1	SHIM, plunger and barrel (2.5 mm)-----	AR

FUEL SYSTEM

INJECTION PUMP (ROBERT BOSCH) - Continued

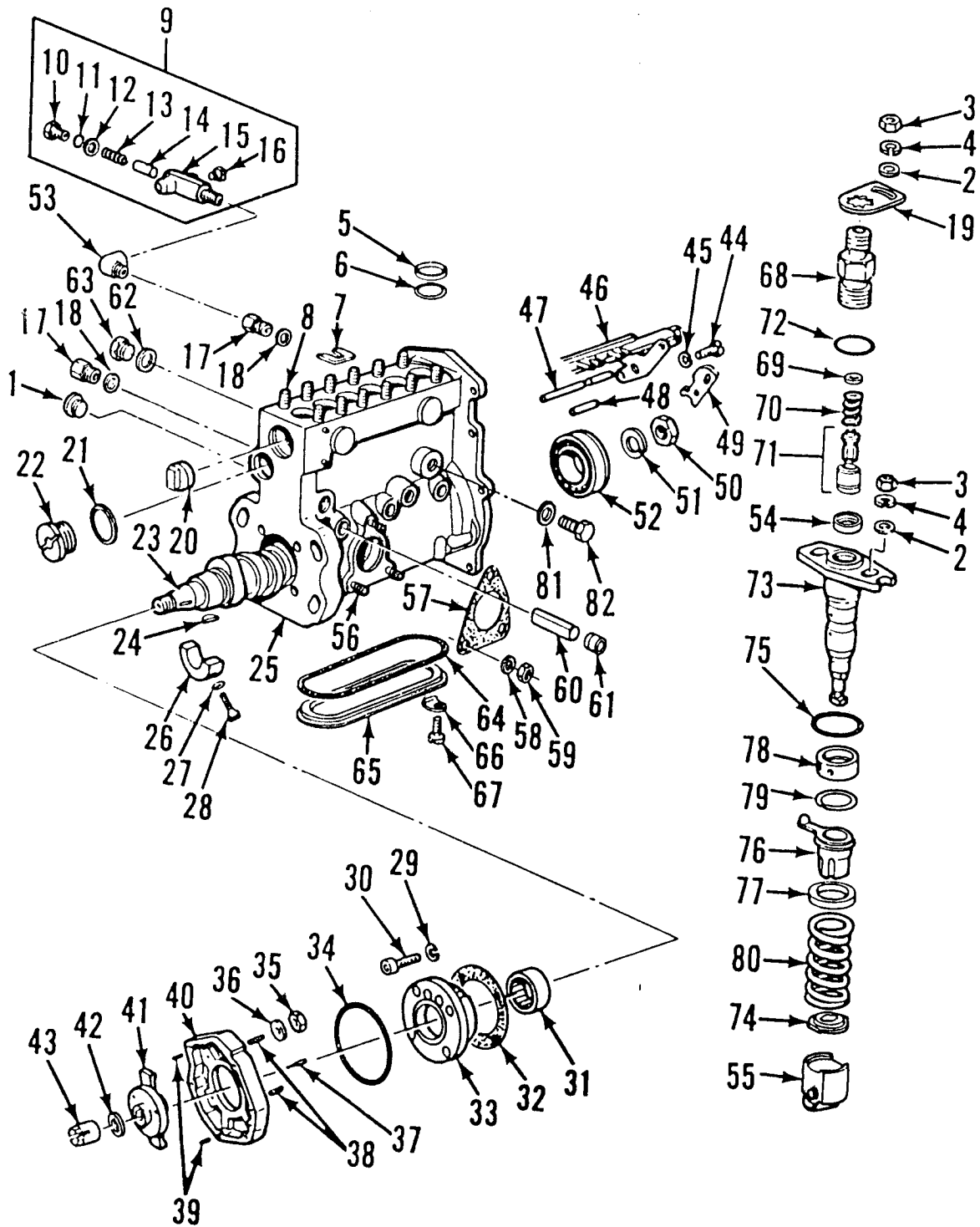


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP (ROBERT BOSCH) - Continued			
8	1806 269 C1	STUD, pump housing-----	12
9	670 889 C91	VALVE ASSY, check-----	1
10	625 601 C1	PLUG-----	1
11	933 610 R1	GASKET, piston plug-----	1
12	625 600 C1	WASHER (0.3 mm)-----	1
13	625 598 C1	SPRING, piston-----	1
14	NSS	VALVE, stem (Order Valve Assy)-----	1
15	NSS	BODY, valve (Order Valve Assy)-----	1
16	1806 417 C1	PLUG, piston-----	1
17	625 924 C1	FITTING, fuel in and out-----	2
18	397 630 C1	GASKET, fuel in and out fitting-----	2
19	1806 294 C1	PLATE, plunger lock-----	6
20	691 263 C1	PLUG, housing rack-----	1
21	933 608 R1	GASKET, housing plug-----	1
22	691 260 C1	PLUG, housing screw-----	1
23	1806 505 C1	CAMSHAFT, injection pump-----	1
24	3056 409 R1	KEY, camshaft woodruff-----	1
25	1808 651 C91	HOUSING ASSY, pump-----	1
		Composed of:	
	933 608 R1	GASKET-----	1
	NSS	HOUSING-----	1
	691 262 C1	"O" RING-----	6
	691 260 C1	PLUG-----	1
	691 263 C1	PLUG-----	1
	691 261 C1	SPACER-----	6
	397 624 C1	STUD-----	3
	1806 269 C1	STUD-----	12
26	691 252 C1	SUPPORT, camshaft-----	1

FUEL SYSTEM

INJECTION PUMP (ROBERT BOSCH) - Continued

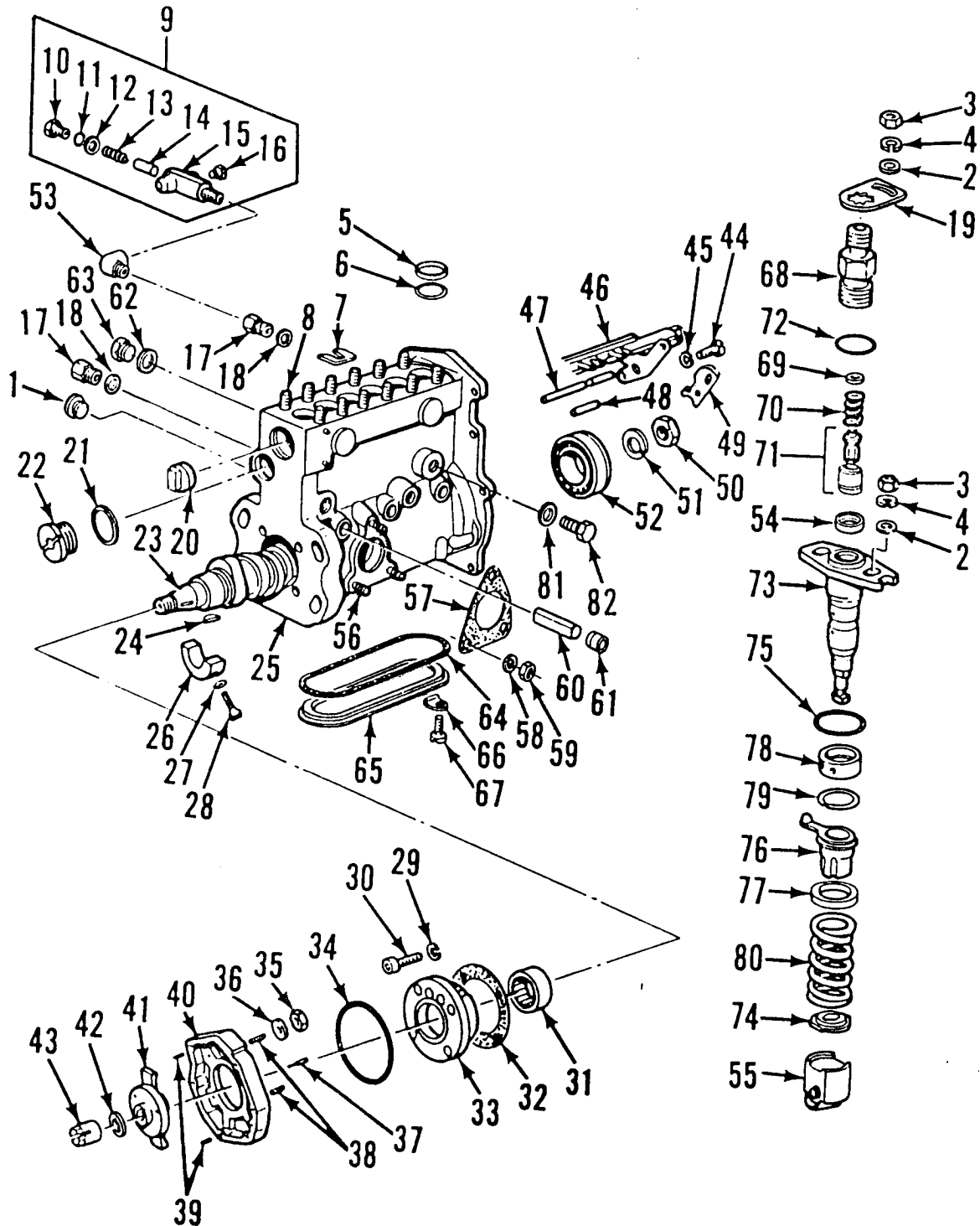


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP (ROBERT BOSCH) - Continued			
27	1806 284 C1	WASHER, support lock-----	2
28	1806 285 C1	SCREW, camshaft support-----	2
29	1806 276 C1	WASHER, front bearing housing-----	4
30	1806 918 C1	SCREW, front bearing housing-----	4
31	1806 273 C91	BEARING, camshaft front-----	1
32	1806 274 C1	GASKET, front bearing housing-----	1
33	1806 275 C1	HOUSING, front bearing-----	1
34	670 875 C1	RING, front bearing housing-----	1
35	691 314 C1	NUT, adapter stud-----	4
36	625 566 C1	WASHER, adapter stud-----	4
37	691 349 C1	POINTER, timing-----	1
38	691 313 C1	STUD, adapter-----	4
39	680 481 C1	PIN, dowel-----	2
40	1802 642 C91	ADAPTER ASSY, injection pump mounting-----	1
		Composed of:	
	NSS	ADAPTER-----	1
	680 481 C1	PIN-----	2
	691 349 C1	POINTER-----	1
	691 313 C1	STUD-----	4
41	1802 649 C1	HUB, injection pump-----	1
42	691 243 C1	WASHER, pump drive hub lock-----	1
43	1802 705 C1	NUT, pump drive hub-----	1
44	931 393 R1	SCREW, control rack-----	2
45	933 987 R1	WASHER, control rack-----	2
46	1808 710 C1	RACK, plunger control-----	1
47	691 254 C1	PIN, pump rack-----	1

FUEL SYSTEM

INJECTION PUMP (ROBERT BOSCH) - Continued

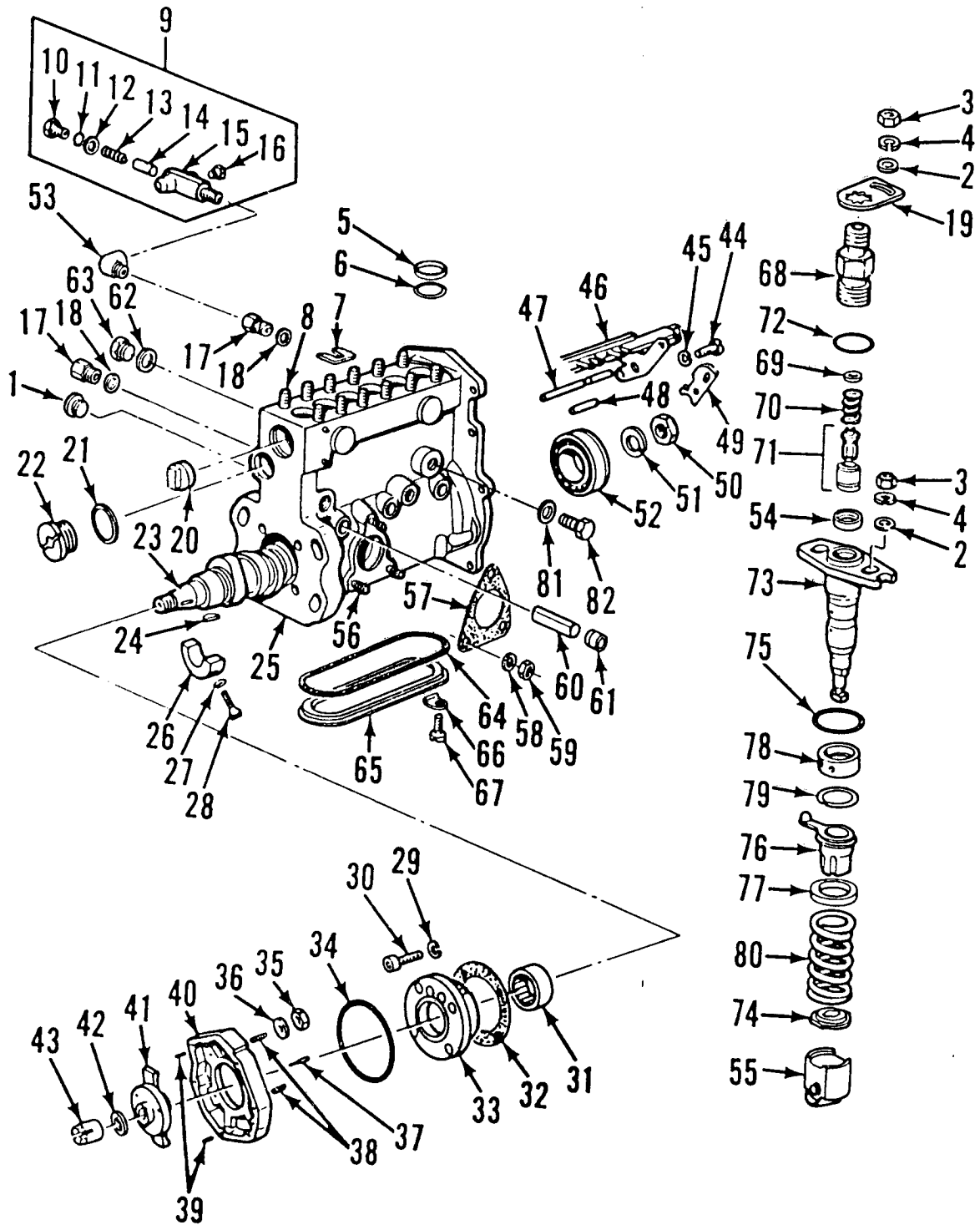


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP (ROBERT BOSCH) - Continued			
48	691 256 C1	PIN, stop plate-----	1
49	691 257 C1	PLATE, stop-----	1
50	691 251 C1	NUT, camshaft rear-----	1
51	691 250 C1	WASHER, camshaft rear lock-----	1
52	691 249 C91	BEARING, camshaft rear-----	1
53	444 041	ELBOW, overflow-----	1
54	1806 328 C1	GASKET, delivery valve sealing (Cup shaped)-----	6
55	691 236 C91	TAPPET w/ROLLER, bushing, pin and ring-----	6
56	397 624 C1	STUD, pump housing fuel supply-----	3
57	1802 931 C1	GASKET, fuel supply pump-----	1
58	933 987 R1	WASHER, lock-----	3
59	933 988 R1	NUT, supply pump stud-----	3
60	1806 278 C1	SPACER, camshaft-----	3
61	691 270 C1	PLUG, camshaft-----	3
62	933 222 R1	GASKET, port closure plug-----	1
63	691 271 C1	PLUG, port closure-----	1
64	1806 504 C1	GASKET, bottom cover-----	1
65	1806 416 C1	COVER, housing bottom-----	1
66	691 268 C1	WASHER, cover screw lock-----	6
67	1806 919 C1	SCREW, bottom cover-----	6
68	1806 288 C1	HOLDER, delivery valve-----	6
69	3079 241 R1	WASHER, valve spring-----	6
70	3132 382 R1	SPRING, delivery valve-----	6
71	1806 833 C91	VALVE, delivery (Includes Ref. No. 54)-----	6

FUEL SYSTEM

INJECTION PUMP (ROBERT BOSCH) - Continued

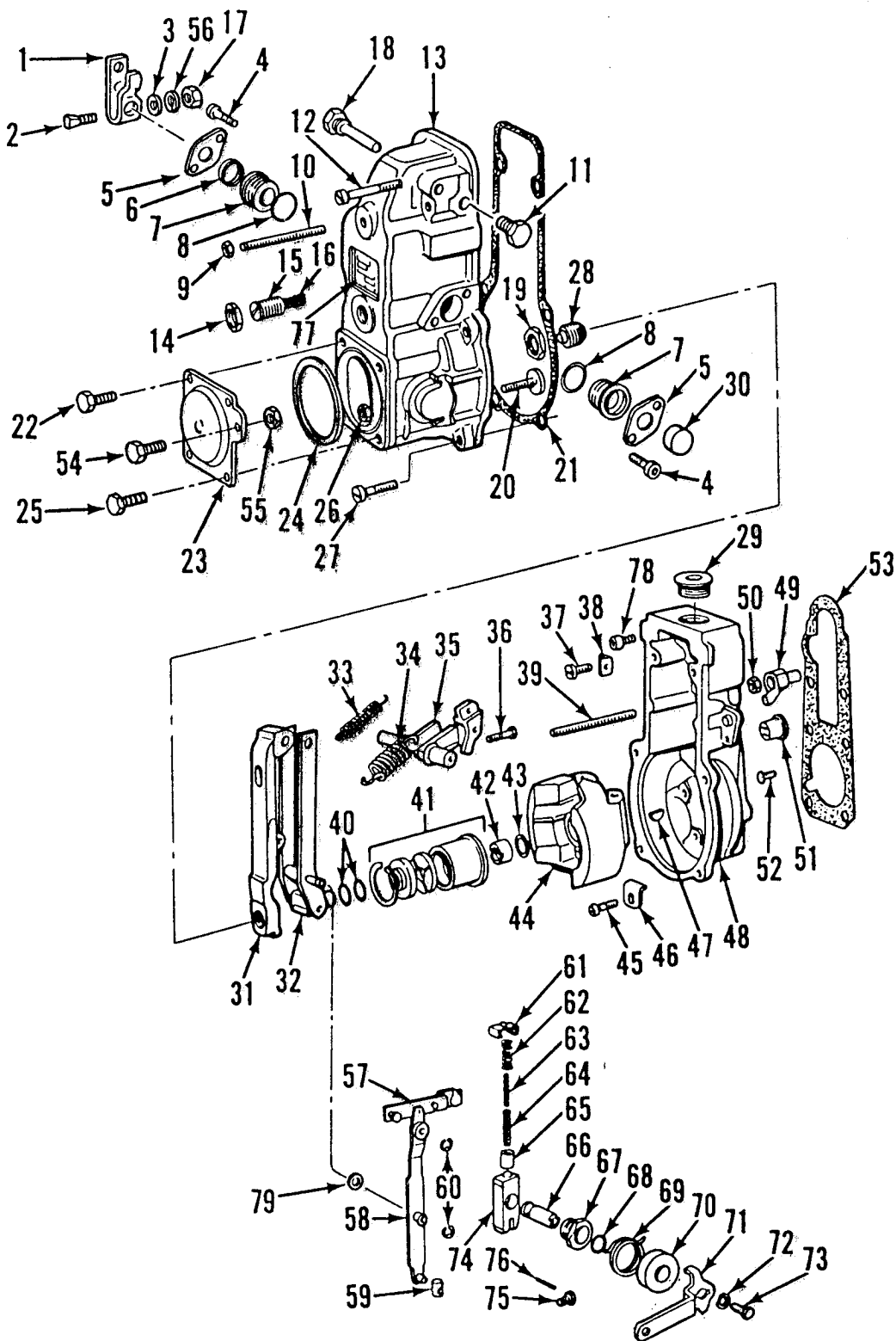


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP (ROBERT BOSCH) - Continued			
72	1806 292 C1	SEAL, delivery valve holder dust-----	6
73	1808 709 C1	PLUNGER and BARREL ASSY-----	6
74	691 235 C1	SEAT, lower spring-----	6
75	1806 290 C1	"O" RING, impact cap-----	6
76	691 233 C1	SLEEVE, control-----	6
77	691 234 C1	SEAT, upper spring-----	6
78	1806 291 C1	CAP, impact-----	6
79	691 232 C1	RING, cap retainer snap-----	6
80	691 226 C1	SPRING, tappet roller-----	6
81	691 273 C1	GASKET, plug-----	1
82	1808 712 C1	PLUG, screw-----	1

FUEL SYSTEM

GOVERNOR (Model RSV)

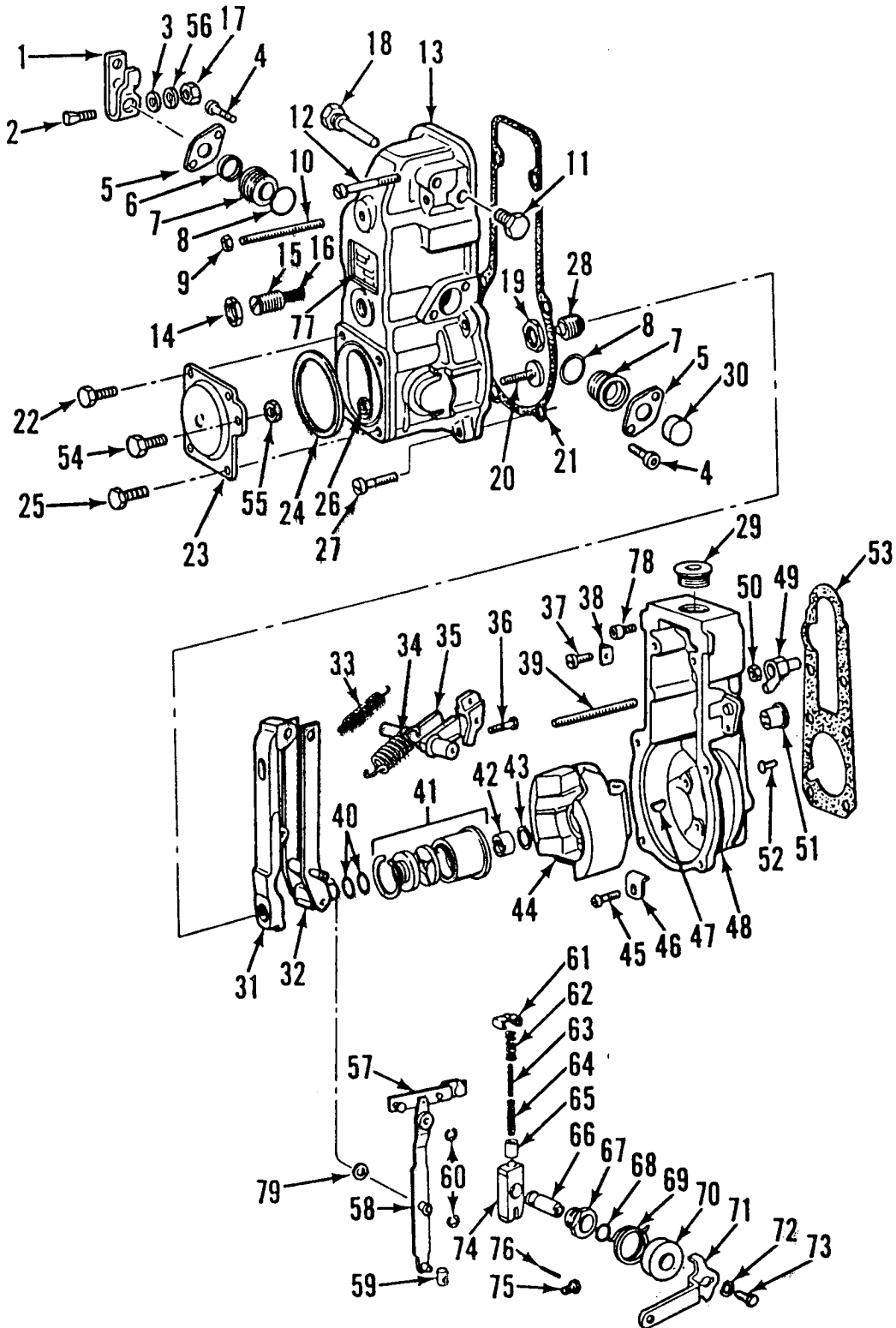


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
GOVERNOR (Model RSV)			
1	1808 728 C1	LEVER, throttle-----	1
2	1808 822 C1	SCREW, throttle lever-----	1
3	3078 056 R1	WASHER, throttle lever-----	1
4	1802 011 C1	SCREW, flange-----	4
5	691 302 C1	FLANGE, control shaft-----	2
6	1808 310 C91	SEAL, control shaft bushing-----	1
7	691 299 C1	BUSHING, control shaft-----	2
8	1808 730 C1	"O" RING, shaft bushing-----	2
9	691 295 C1	NUT, screw lock-----	1
10	680 234 C1	SCREW, adjusting-----	1
11	1808 727 C1	PLUG, tension lever-----	1
12	680 194 C1	SCREW, rear cover (upper)-----	2
13	691 298 C1	HOUSING, governor rear cover-----	1
14	1808 818 C1	NUT, bumper screw lock-----	1
15	3055 927 R1	SCREW, bumper spring adjusting-----	1
16	3055 928 R1	SPRING, bumper-----	1
17	1806 312 C1	NUT, throttle lever-----	1
18	680 181 C1	SHAFT, tension lever-----	1
19	625 560 C1	NUT, capsule lock (Pump Assy, 1806 982 C91, 687 498 C92, 687 499 C92)-----	1
20	3055 902 R1	SCREW, full load stop-----	1
21	625 538 C1	GASKET, rear cover-----	1
22	1808 819 C1	BOLT, rear plate (upper)-----	2
23	1808 729 C1	PLATE, rear-----	1

FUEL SYSTEM

GOVERNOR (Model RSV)

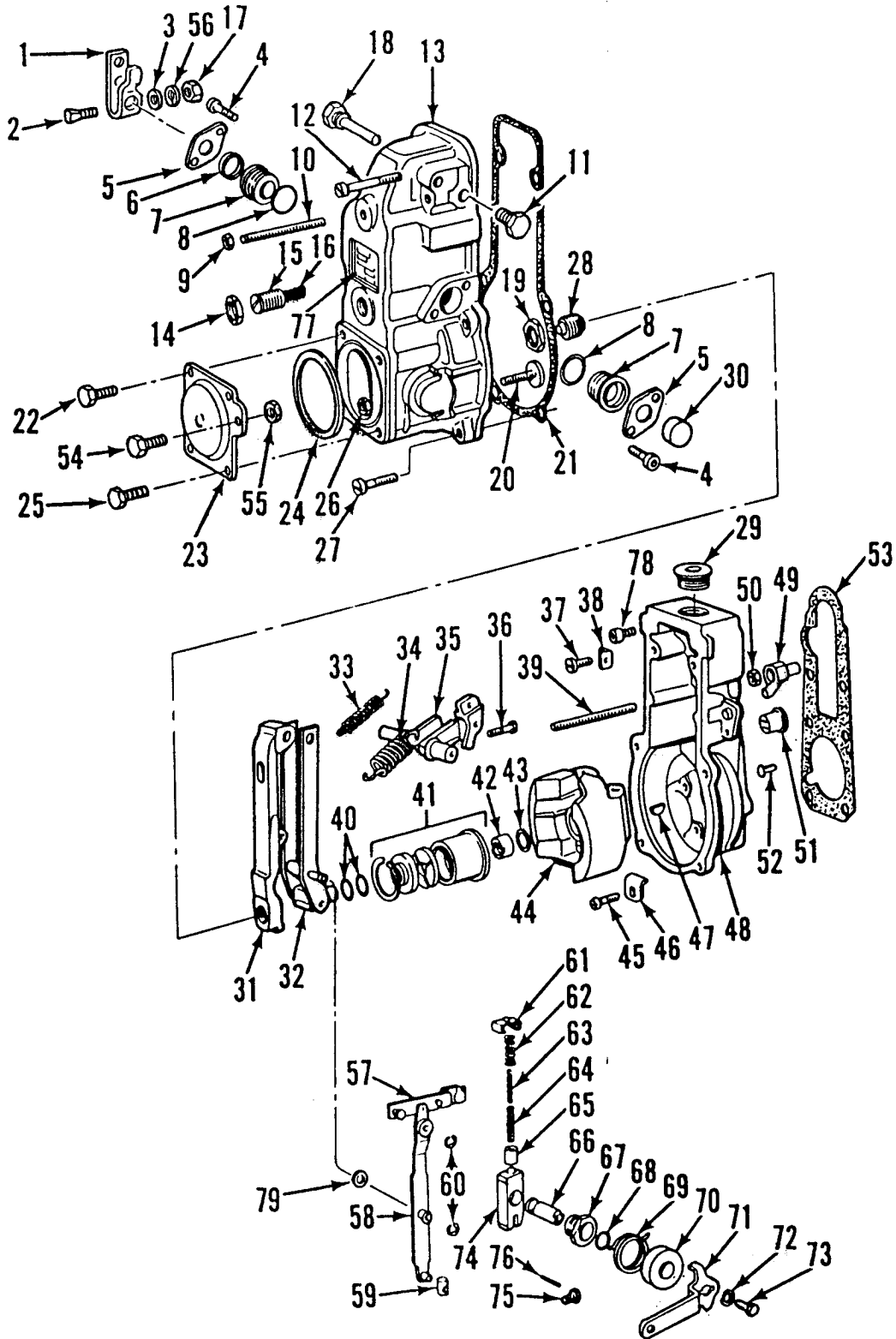


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
GOVERNOR - Continued			
(Model RSV)			
24	3055 951 R1	GASKET, rear plate-----	1
25	1808 820 C1	BOLT, rear plate (lower)-----	2
26	933 988 R1	NUT, high idle screw-----	1
27	931 113 R1	SCREW, rear cover-----	4
28		CAPSULE, torque	
	1808 717 C1	PUMP ASSY, 687 498 C92-----	1
	1808 718 C1	PUMP ASSY, 1806 982 C91, 687 499 C92-----	1
29	439 184 C1	PLUG, housing top-----	1
30	3055 912 R1	PLUG, control shaft-----	1
31	1808 723 C1	LEVER, tensioning-----	1
32	625 555 C1	LEVER, guide-----	1
33	691 287 C1	SPRING, starting-----	1
34	691 286 C1	SPRING, governor-----	1
35	1808 722 C1	SHAFT, governor control-----	1
36	3055 908 R1	SCREW, governor control-----	1
37	1808 816 C1	SCREW, bracket-----	2
38	691 278 C1	BRACKET, control rack-----	1
39	439 182 C1	SCREW, high idle-----	1
40	3054 873 R1	SHIM (.02 mm)-----	AR
	3055 894 R1	SHIM (.03 mm)-----	AR
	3055 895 R1	SHIM (.04 mm)-----	AR
	3055 896 R1	SHIM (1.0 mm)-----	AR
41	625 556 C1	BEARING ASSY, governor weight-----	1
42	3055 889 R1	NUT, governor weight securing-----	1
43	625 536 C1	WASHER, governor weight securing-----	1
44	1808 716 C1	WEIGHT, governor-----	1

FUEL SYSTEM

GOVERNOR (Model RSV)

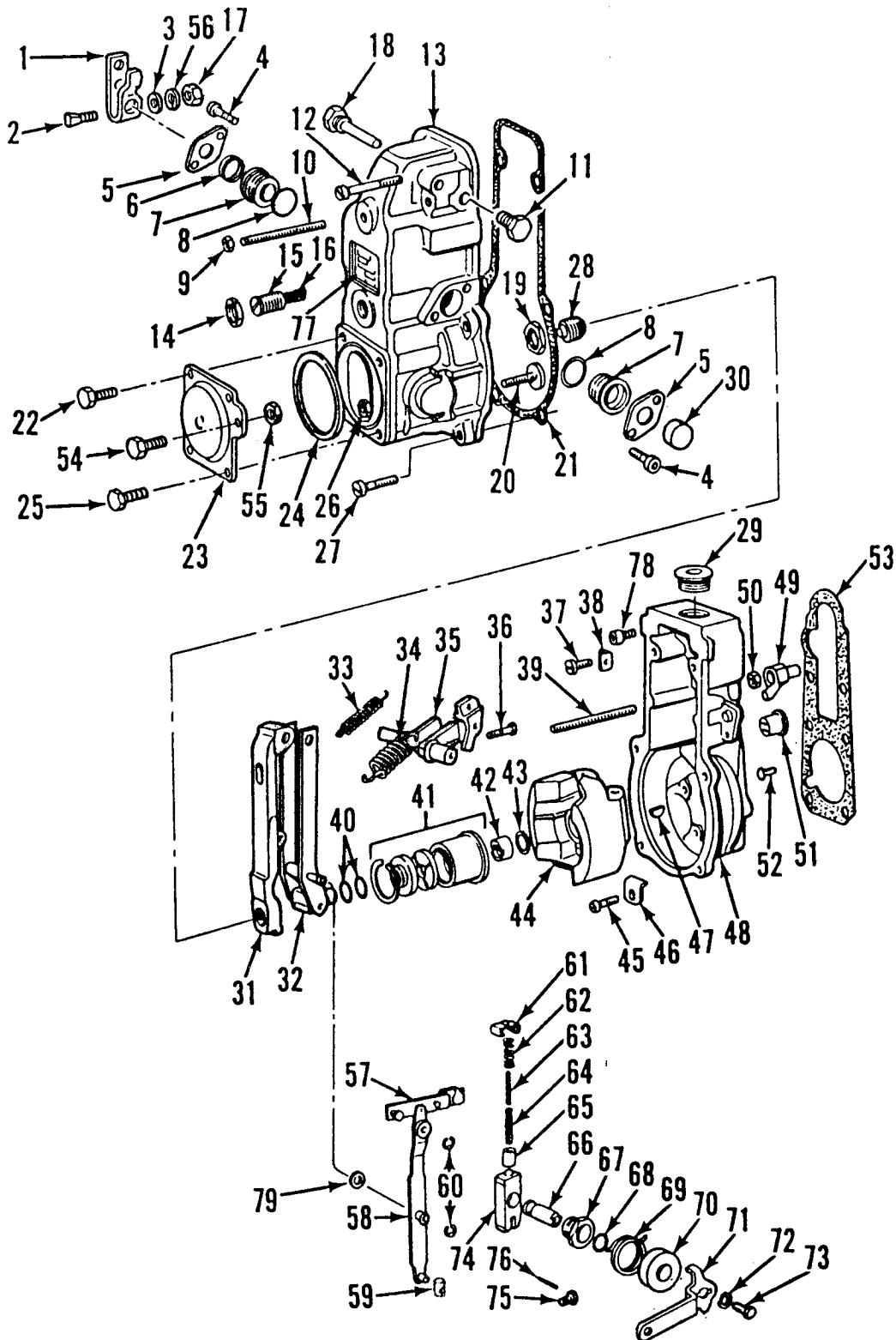


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
GOVERNOR (Model RSV)			
45	1808 816 C1	SCREW, governor housing-----	4
46	691 283 C1	WASHER, governor housing lock-----	4
47	3054 301 R1	KEY, governor weight-----	1
48	691 276 C1	HOUSING, governor-----	1
49	691 281 C1	CAP, high idle screw-----	1
50	933 988 R1	NUT, high idle stop screw-----	1
51	691 282 C1	MAGNET, governor housing-----	1
52	670 877 C1	RIVET, cap (lead)-----	1
53	691 277 C1	GASKET, governor housing-----	1
54	1808 817 C1	BOLT, shut-off rear plate-----	1
55	1806 338 C1	NUT, shut-off rear plate-----	1
56	933 987 R1	WASHER, throttle lever lock-----	1
57	439 181 C1	ARM, floating-----	1
58	3055 903 R92	LEVER, floating-----	1
59	625 547 C1	BUSHING, lever-----	1
60	1808 724 C1	RING, lever snap-----	2
61	625 596 C1	BRACKET, spring holding-----	1
62	625 593 C1	SPRING (19.5 mm)-----	1
63	625 594 C1	SPRING (23.5 mm)-----	1
64	625 595 C1	SPRING (26.5 mm)-----	1
65	625 592 C1	CAPSULE, spring-----	1
66	625 549 C1	SHAFT, shut-off-----	1
67	691 291 C1	BUSHING, shaft-----	1

FUEL SYSTEM

GOVERNOR (Model RSV)

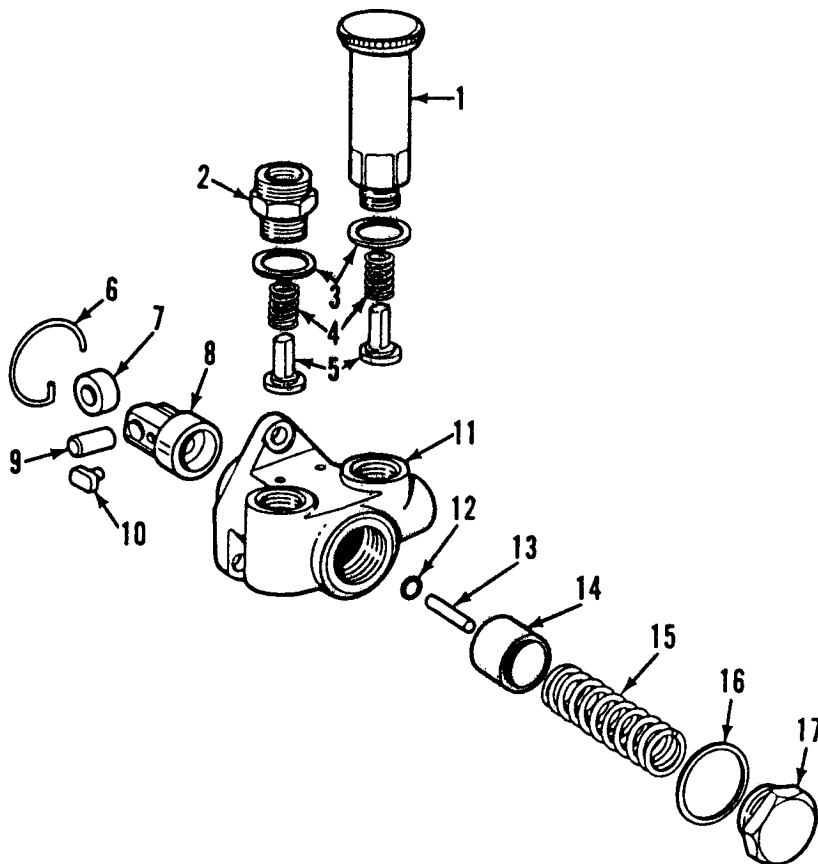


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
GOVERNOR (Model RSV)			
68	680 187 C1	"O" RING (Shut-off Shaft)-----	1
69	1808 725 C1	SPRING, lever return-----	1
70	691 292 C1	HOUSING, return spring-----	1
71	1808 726 C1	LEVER, shut-off-----	1
72	933 987 R1	WASHER, lever lock-----	1
73	1802 055 C1	BOLT, lever retaining-----	1
74	680 186 C1	LEVER, shut-off shaft spring-----	1
75	691 305 C1	PLUG, rear cover pin housing-----	1
76	691 304 C1	PIN, rear cover housing-----	1
77	631 480 C1	PLATE, governor name-----	1
78	1806 918 C1	SCREW, governor housing-----	2
80	1808 719 C1	SHIM, tension lever (.010 mm)-----	AR
	1808 720 C1	SHIM, tension lever (.025 mm)-----	AR
	1808 721 C1	SHIM, tension lever (.040 mm)-----	AR

FUEL SYSTEM

INJECTION PUMP FUEL SUPPLY PUMP

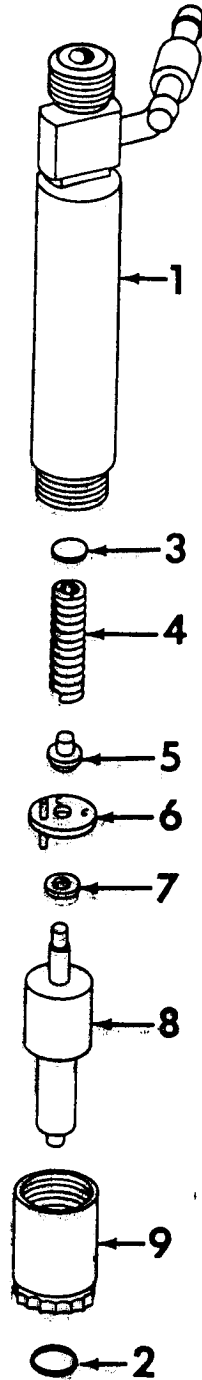


FUEL SYSTEM

Ref No	Part Number	Description	Quantity
INJECTION PUMP FUEL SUPPLY PUMP			
	691 054 C91	PUMP ASSY, fuel supply----- Consists of the following parts:	1
1	684 492 C93	PUMP, hand priming-----	1
2	691 306 C1	FITTING, housing-----	1
3	625 550 C1	GASKET, housing fitting-----	2
4	760 583 R1	SPRING, valve-----	2
5	684 726 C1	VALVE, pump-----	2
6	684 725 C1	RING, snap-----	1
7	NSS	ROLLER (Order Tappet)-----	1
8	1802 159 C1	TAPPET w/PIN, roller and two Slider, roller-----	1
9	NSS	PIN (Order Tappet)-----	1
10	NSS	SLIDER (Order Tappet)-----	2
11	NSS	HOUSING, pump (Order Supply Pump)-----	1
12	691 272 C1	"O" RING, pressure spindle-----	1
13	NSS	SPINDLE, pressure (Order Supply Pump)-----	1
14	NSS	PISTON (Order Supply Pump)-----	1
15	691 307 C1	SPRING, plunger return-----	1
16	670 882 C1	GASKET, screw plug-----	1
17	691 308 C1	PLUG, screw-----	1

FUEL SYSTEM

NOZZLE AND NOZZLE HOLDER



CG-5619A

FUEL SYSTEM

Ref No	Part Number	Description	Quantity
NOZZLE AND NOZZLE HOLDER			
	675 967 C91	NOZZLE AND NOZZLE HOLDER ASSY, fuel injection----- D-466 and DT-466B for TD-12 LQ-159, LQ-163 and A400E	1
	687 145 C91	NOZZLE AND NOZZLE HOLDER ASSY, fuel injection----- D-466 for Galion LQ-165 and LQ-165A DT-466 - below 75000 - DT-414, below 140000	1
	682 654 C91	NOZZLE AND NOZZLE HOLDER ASSY, fuel injection----- D-466 for Galion LQ-157, LQ-157A, LQ-167, LQ-167A, 450E and 500E	1
	687 372 C91	NOZZLE AND NOZZLE HOLDER ASSY, fuel injection----- DT-466B - 75001 and up, DT-414B - 140001 and up DTI-466C and DT-466C Consists of the following parts:	1
1	680 413 C1	BODY, nozzle holder-----	1
2	675 477 C1	GASKET, injection nozzle-----	1
3	680 415 C1	SHIM (.002")-----	AR
	680 416 C1	SHIM (.007")-----	AR
	680 418 C1	SHIM (.010")-----	AR
	680 419 C1	SHIM (.025")-----	AR
	680 420 C1	SHIM (.0375")-----	AR
	680 421 C1	SHIM (.028")-----	AR
	680 422 C1	SHIM (.030")-----	AR
	680 423 C1	SHIM (.035")-----	AR
4	680 424 C1	SPRING, pressure adjusting-----	1
5	680 433 C1	GUIDE, spring seat-----	1
6	680 434 C1	SPACER, valve stop-----	1
7	680 414 C1	SPACER, nozzle-----	2
8	673 599 C1	NOZZLE, injection ----- (NOZZLE and NOZZLE HOLDER 675 967 C91)	1
	687 146 C1	NOZZLE, injection ----- (NOZZLE and NOZZLE HOLDER 687 145 C91)	1
	682 960 C1	NOZZLE, injection ----- (NOZZLE and NOZZLE HOLDER 682 654 C91)	1
	687 400 C1	NOZZLE, injection ----- (NOZZLE and NOZZLE HOLDER 687 372 C91)	1
9	680 435 C1	NUT, nozzle cap-----	1
	1802 395 C91	HOLDER ASSY, nozzle (Includes Ref. Nos. 1 thru 7 & 9)	1

FUEL SYSTEM

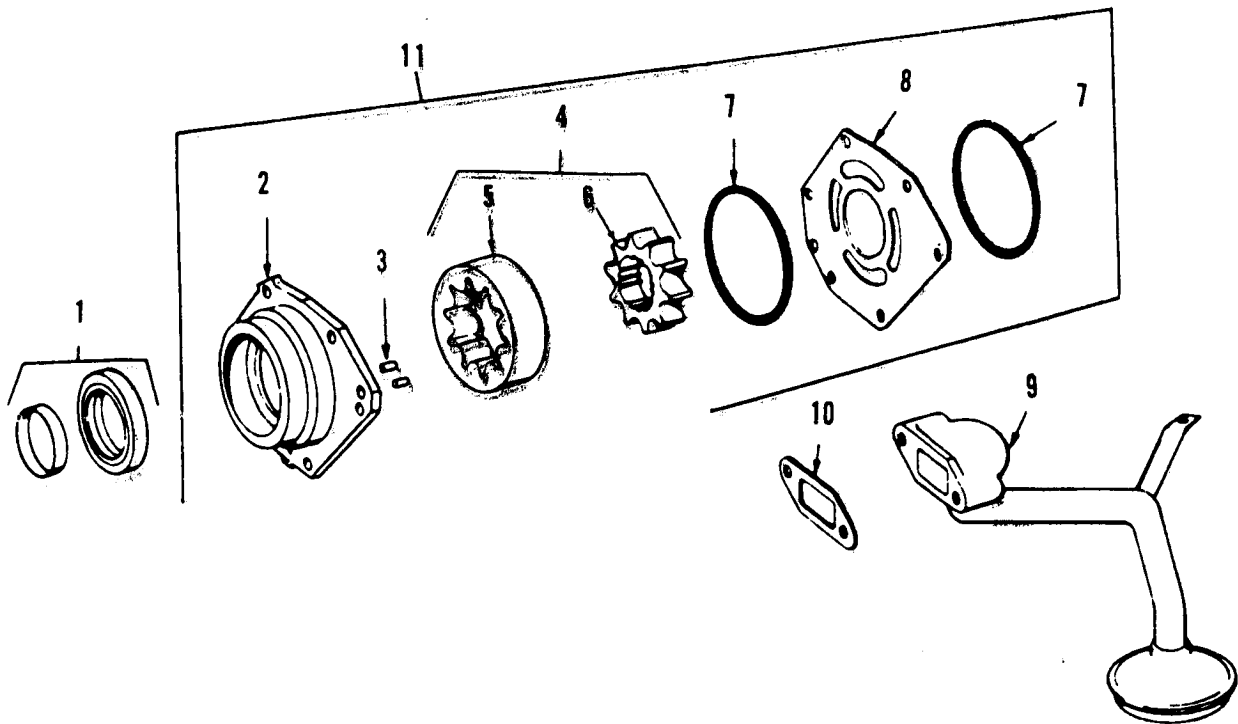
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NOT USED

12

LUBRICATION

LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS



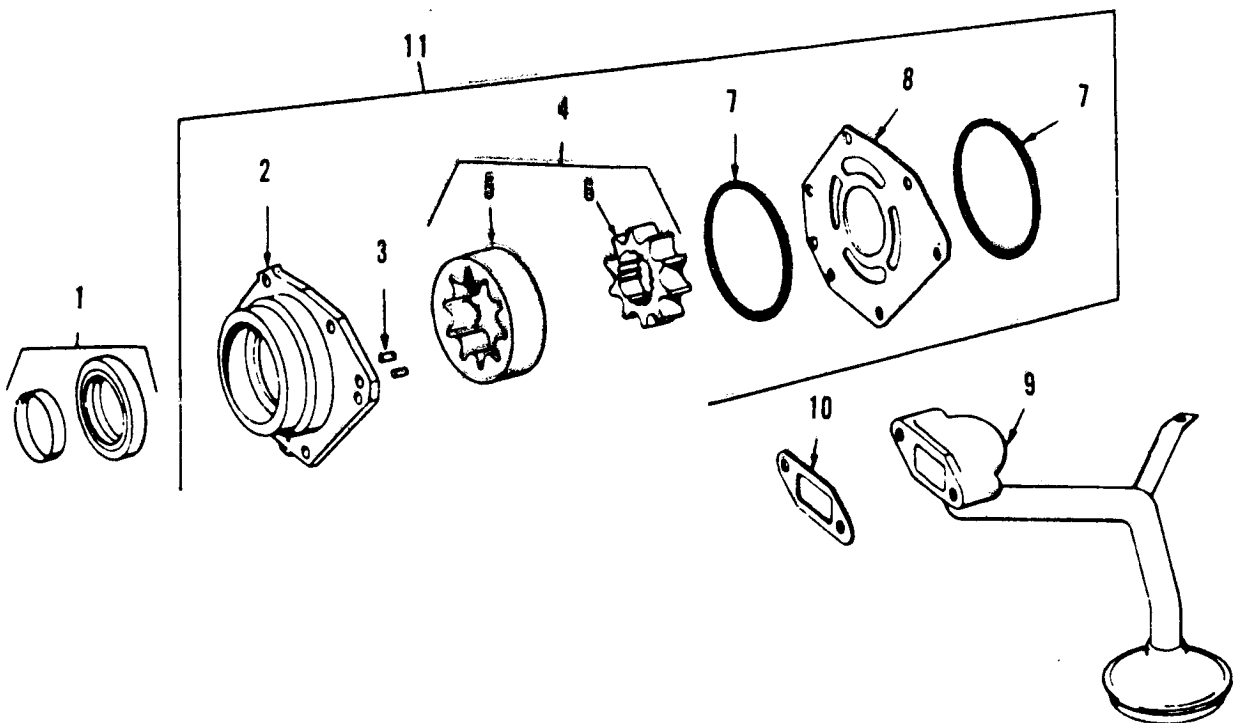
LUBRICATION

Ref No	Part Number	Description	Qty
LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS			
1	690 437 C93	PACKAGE, crankshaft front oil SEAL----- (Consists of SEAL and WEAR SLEEVE)	1
2	NSS	HOUSING, oil pump-----	1
	27 971 R1	BOLT, 5/16" x 1-1/8" prevailing torque-----	6
	27 326 R1	WASHER, 5/16" hardened-----	6
3	680 482 C1	PIN, dowel-----	2
4	NSS	ROTOR, oil pump (Inner and outer)-----	1
5	NSS	ROTOR, oil pump outer-----	1
6	NSS	ROTOR, oil pump inner-----	1
7	675 860 C1	RING, oil pump housing-----	2
	OR		
	686 451 C1	RING, oil pump housing-----	2
8	675 365 C1	PLATE, oil pump housing (+)----- D-466 - 57803 and below DT-466B - 194972 and below DT/DTI-466C - 466775 and below	1
	1802 879 C1	PLATE, oil pump housing (+)----- D-466 - 57804 and up DT-466B - 194973 and up DT/DTI-466C - 466776 and up	1
9		(See Individual Engine Variation) (+)	
10	671 821 C1	GASKET, oil inlet tube (+)----- D-466 - 57803 and below DT-466B - 194972 and below DT/DTI-466C - 466775 and below	1
	1802 867 C1	GASKET, oil inlet tube (+)----- D-466 - 57804 and up DT-466B - 194973 and up DT/DTI-466C - 466776 and up	1
11	1802 666 C91	PACKAGE, oil pump (+)----- D-466 - 57803 and below DT-466B - 194972 and below DT/DTI-466C - 466775 and below	1
	1808 832 C91	PACKAGE, oil pump (+)----- D-466 - 57804 and up DT-466B - 194973 and up DT/DTI-466C - 466776 and up	1

(+) Reference Service Bulletin A-12D-60B

LUBRICATION

LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS - Continued



LUBRICATION

Ref No	Part Number	Description	Quantity
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LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS - Continued

ENGINE VARIATIONS

(DT-414 for H-65C)

9	673 884 C3	TUBE, oil pump inlet-----	1
	21 070 R1	NUT, 3/8" lock-----	1
	25 750 R1	BOLT, 5/16" x 1-3/4" hex-hd cap-----	2
	25 496 R1	SCREW, 7/8" hex-hd cap-----	1
	116 120	WASHER, 5/16" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	25 896 R1	WASHER, 3/8" hardened-----	1
	21 070 R1	NUT, 3/8"-----	1

(DT-414 for E-200)

9	671 822 C3	TUBE, oil pump inlet-----	1
	25 750 R1	SCREW, 1-3/4" hex-hd cap-----	2
	25 228 R1	SCREW, 3/4" hex-hd cap-----	1
	116 120	WASHER, 5/16" lock-----	1
	385 302 R1	WASHER, plain-----	1

(DT-414, DT-414B for 530)

(DT-466, DT-466B for H-80B and 540)

(DT-466C for 530 - 466775 and below)

(DTI-466C for 540 - 466775 and below)

9	673 884 C3	TUBE, oil pump inlet (+)-----	1
	25 750 R1	BOLT, 5/16" x 1-3/4" hex-hd cap-----	2
	115 093	WASHER, 3/8" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	140 483 H	SCREW, 3/8" hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	25 522 R1	NUT, 3/8" hex-----	1

(DT-466C for 530 - 466776 and up)

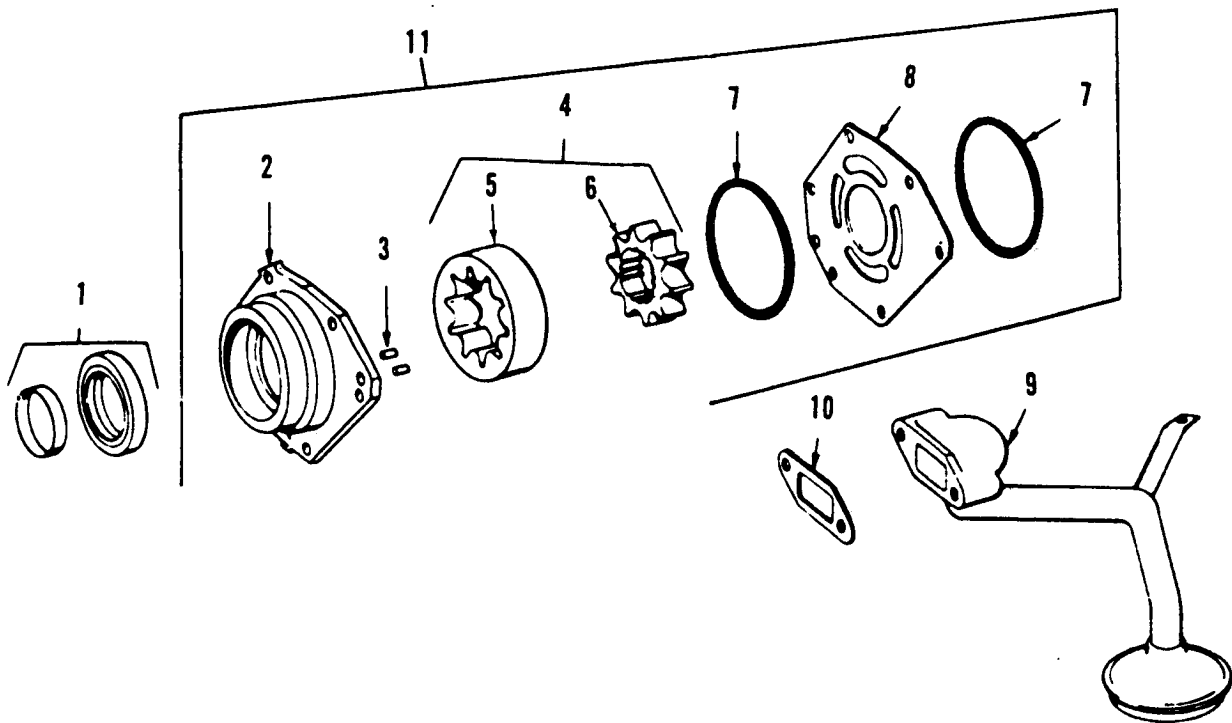
(DTI-466C for 540 - 466776 and up)

9	1806 882 C1	TUBE, oil pump inlet (+)-----	1
	25 232 R1	BOLT, 5/16" x 2" hex-hd cap-----	2
	115 093	WASHER, 3/8" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	140 483 H	SCREW, 3/8" hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	25 522 R1	NUT, 3/8" hex-----	1

(+) Reference Service Bulletin A-12D-60B

LUBRICATION

LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS - Continued



LUBRICATION

Ref No	Part Number	Description	Quantity
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LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS - Continued

ENGINE VARIATIONS - Continued

(DT-466 for TD-15C, 412, 433 and 444)
(DT-466B for TD-15C, 412, 412B, 433B and 444B)
(D-466 for TD-12 - 57803 and below)
(DT-466B for TD-12 - 194972 and below)
(DT-466C for TD-15C- 466 775 and below)

9	671 822 C3	TUBE, oil pump inlet (+)-----	1
	25 750 R1	SCREW, 1-3/4" hex-hd cap-----	2
	27 326 R1	WASHER, 5/16" hardened-----	4
	25 492 R1	BOLT, 5/16" x 7/8" hex-hd cap-----	1
	116 120	WASHER, 5/16" lock-----	1

(D-466 for TD-12 - 57804 and up)
(DT-466B for TD-12 - 194973 and up)
(DT-466C for TD-15C - 466776 and up)

9	1806 502 C1	TUBE, oil pump inlet (+)-----	1
	25 232 R1	BOLT, 5/16" x 2" hex-hd cap-----	2
	27 326 R1	WASHER, 5/16" hardened-----	4
	25 492 R1	BOLT, 5/16" x 7/8" hex-hd cap-----	1
	116 120	WASHER, 5/16" lock-----	1

(DT-466 and DT-466B for 175C)
(DT-466C for 175C - 466775 and below)

9	673 022 C3	TUBE, oil pump inlet (+)-----	1
	25 980 R1	SCREW, 1-7/8" hex-hd cap-----	2
	25 492 R1	BOLT, 5/16" x 7/8" hex-hd cap-----	1
	116 120	WASHER, 5/16" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	3

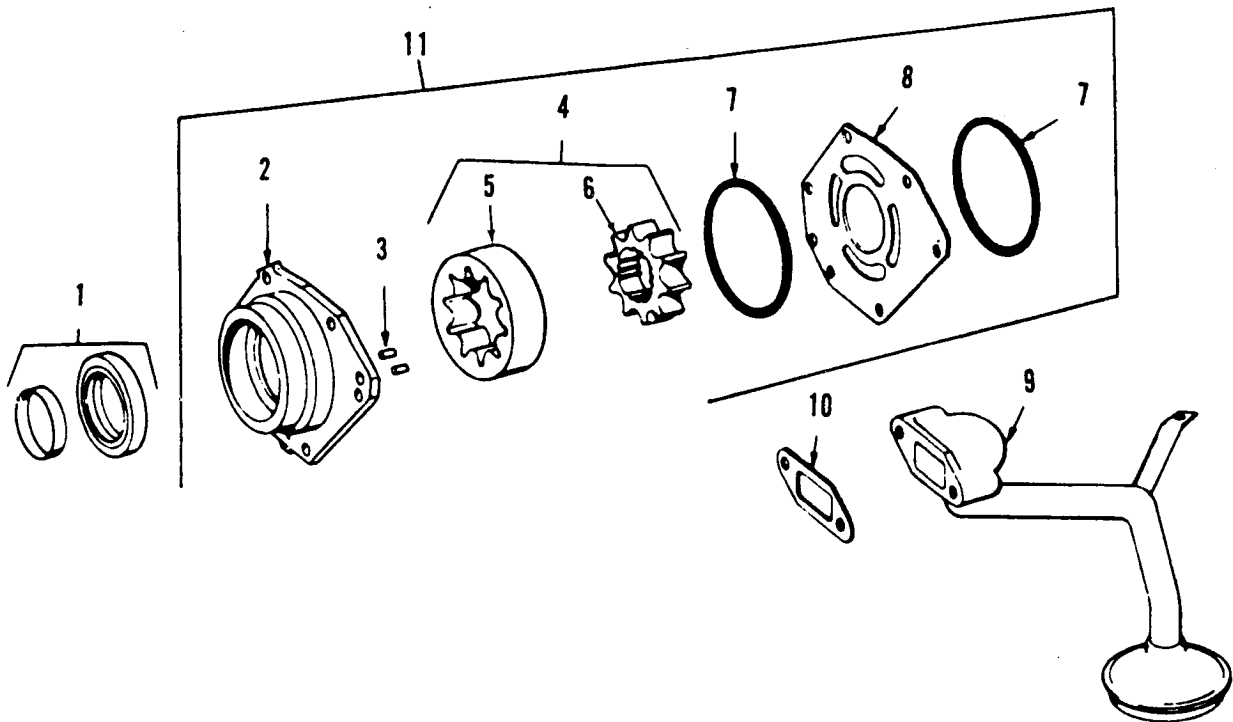
(DT-466C for 175C - 466776 and up)

9	1802 866 C1	TUBE, oil pump inlet (+)-----	1
	25 232 R1	SCREW, 2" hex-hd cap-----	2
	25 492 R1	BOLT, 5/16" x 7/8" hex-hd cap-----	1
	116 120	WASHER, 5/16" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	3

(+) Reference Service Bulletin A-12D-60B

LUBRICATION

LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS - Continued



LUBRICATION

Ref No	Part Number	Description	Quantity
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LUBRICATING OIL PUMP, INLET TUBE AND RELATED PARTS - Continued

ENGINE VARIATIONS - Continued

(Galion LQ-157, LQ-157A, LQ-158, LQ-158A,
LQ-161A, LQ-161B, LQ-165, LQ-165A, LQ-166A,
LQ-166B, LQ-167, LQ-167A, LQ-168 and LQ-170)

9	673 884 C3	TUBE, oil pump inlet (+)-----	1
	25 750 R1	BOLT, 5/16" x 1-3/4" hex-hd cap-----	2
	115 093	WASHER, 3/8" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	140 483 H	SCREW, 3/8" hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	25 522 R1	NUT, 3/8" hex-----	1

(Galion LQ-157, LQ-157A, LQ-158, LQ-158A,
LQ-161A, LQ-161B, LQ-165, LQ-165A, LQ-166A,
LQ-166B, LQ-167, LQ-167A, LQ-168 and LQ-170)

9	1806 882 C1	TUBE, oil pump inlet (+)-----	1
	25 232 R1	BOLT, 5/16" x 2" hex-hd cap-----	2
	115 093	WASHER, 3/8" lock-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	140 483 H	SCREW, 3/8" hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	25 522 R1	NUT, 3/8" hex-----	1

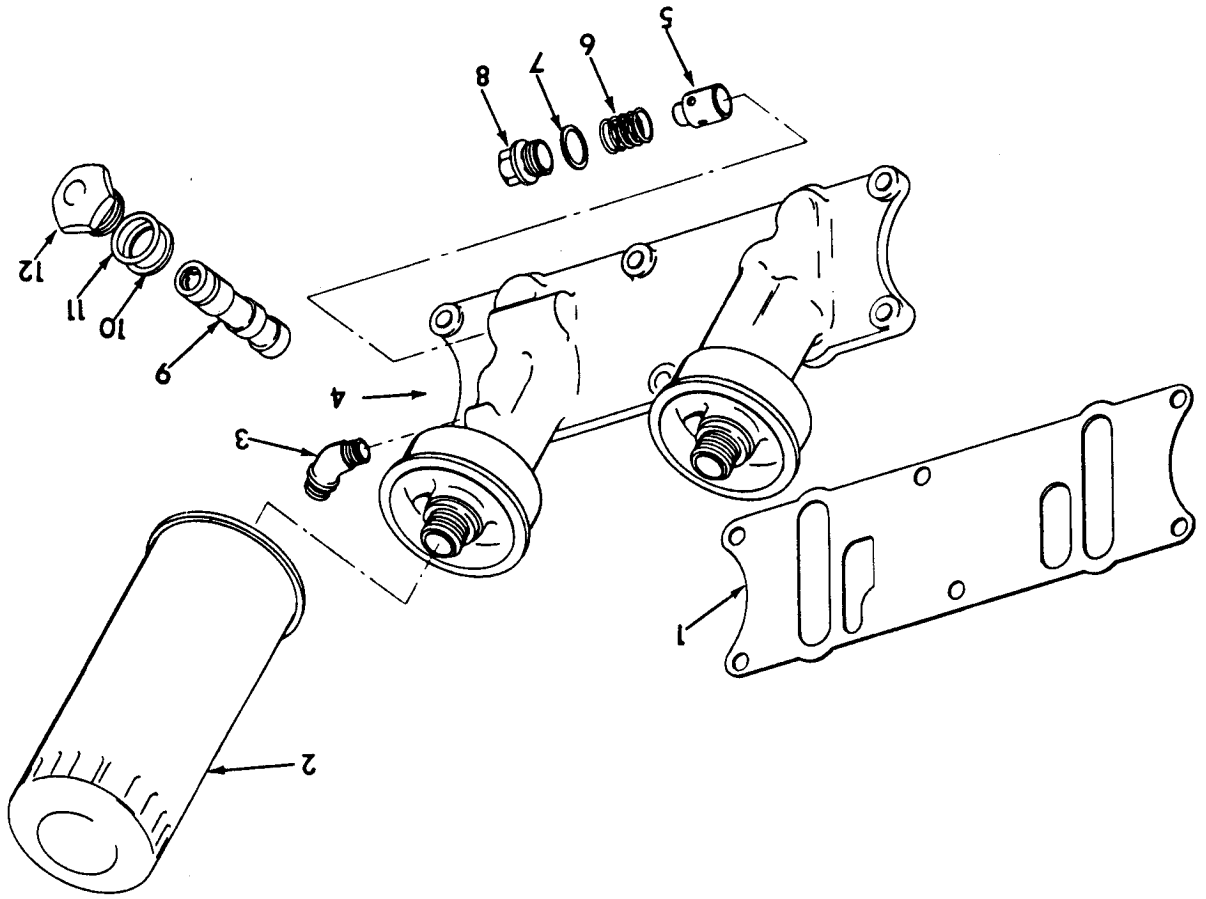
(Galion A400E, 450E, 500E, 550, 560E, A600 AND A606)
(D-466 - 57803 and below)
(DT-466B - 194972 and below)
(DT-466C - 466776 and below)

9	691 533 C2	TUBE, oil pump inlet (+)-----	1
	25 750 R1	BOLT, 5/16" x 1-3/4" hex-hd cap-----	2
	27 326 R1	WASHER, 5/16" hardened-----	3
	25 492 R1	BOLT, 5/16" x 7/8" hardened-----	1
	116 120	WASHER, 5/16" lock-----	1

(Galion A400E, 450E, 500E, 550, 5603, A600 and A606)
(D-466 - 57804 and up)
(DT-466B - 194973 and up)
(DT-466C - 466776 and up)

9	1802 866 C1	TUBE, oil pump inlet (+)-----	1
	25 232 R1	BOLT, 5/16" x 2" hex-hd cap-----	2
	27 326 R1	WASHER, 5/16" hardened-----	3
	25 492 R1	BOLT, 5/16" x 7/8" hardened-----	1
	116 120	WASHER, 5/16" lock-----	1

(+) Reference Service Bulletin A-12D-60B



LUBRICATING OIL FILTER AND CONNECTIONS

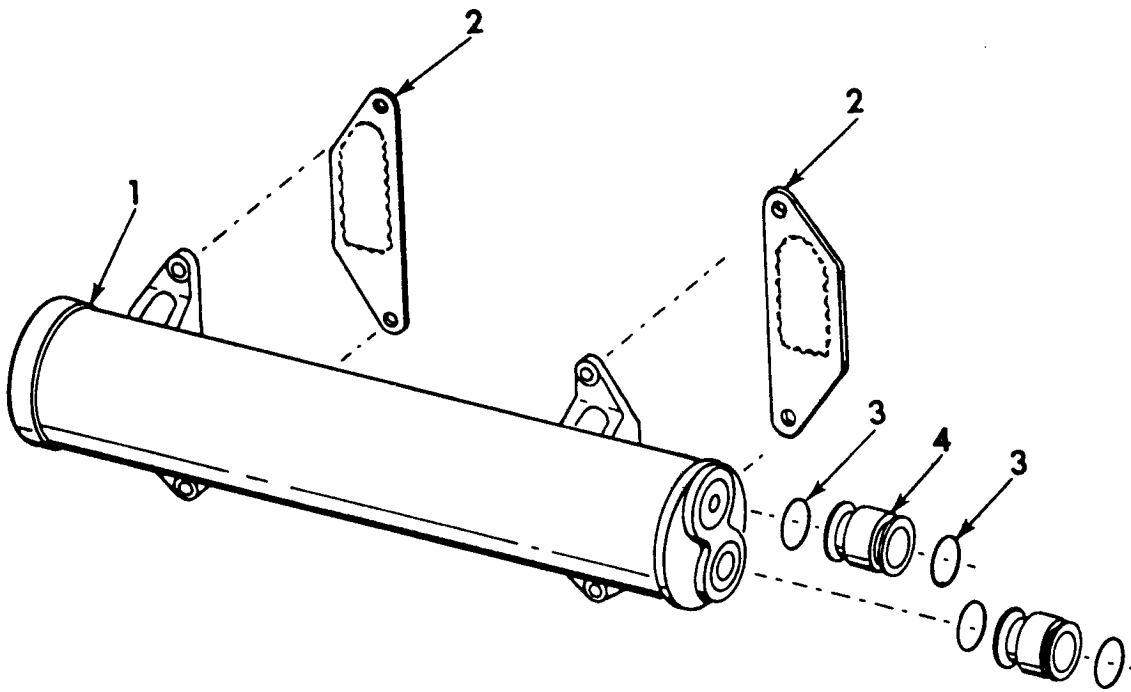
LUBRICATION

LUBRICATION

Ref No	Part Number	Description	Quantity
LUBRICATING OIL FILTER AND CONNECTIONS			
1	675 398 C1	GASKET, lube oil filter base-----	1
2	675 616 C91	FILTER w/GASKET, lube oil-----	2
3	606 889 C1	ELBOW, oil filter base-----	1
4	675 358 C2	BASE, lube oil filter-----	1
	26 311 R1	SCREW, 3/8" x 1-1/4" hex-hd cap-----	6
	25 896 R1	WASHER, 3/8" hardened-----	6
5	601 917 C1	VALVE, filter by-pass-----	1
6	676 137 C1	SPRING, by-pass valve-----	1
7	676 136 C1	GASKET, by-pass valve-----	1
8	676 135 C1	PLUG, by-pass valve-----	1
9	675 656 C92	VALVE, oil pressure regulating-----	1
10	261 624 R1	GASKET, pressure regulating valve cap-----	1
11	349 055 R2	"O" RING, pressure regulating valve-----	1
12	675 395 C1	CAP, pressure regulating valve-----	1

LUBRICATION

OIL COOLER AND CONNECTIONS



LUBRICATION

Ref No	Part Number	Description	Quantity
OIL COOLER AND CONNECTIONS			
1	690 884 C2	COOLER, oil-----	1
	140 483 H	SCREW, hex-hd cap-----	4
	25 896 R1	WASHER, hardened-----	4
	115 093	WASHER, lock-----	4
2	675 513 C1	SEAL, oil cooler mounting-----	2
3	252 483 R1	"O" RING-----	4
4	677 110 C1	TUBE, cooler to front cover-----	2

LUBRICATION

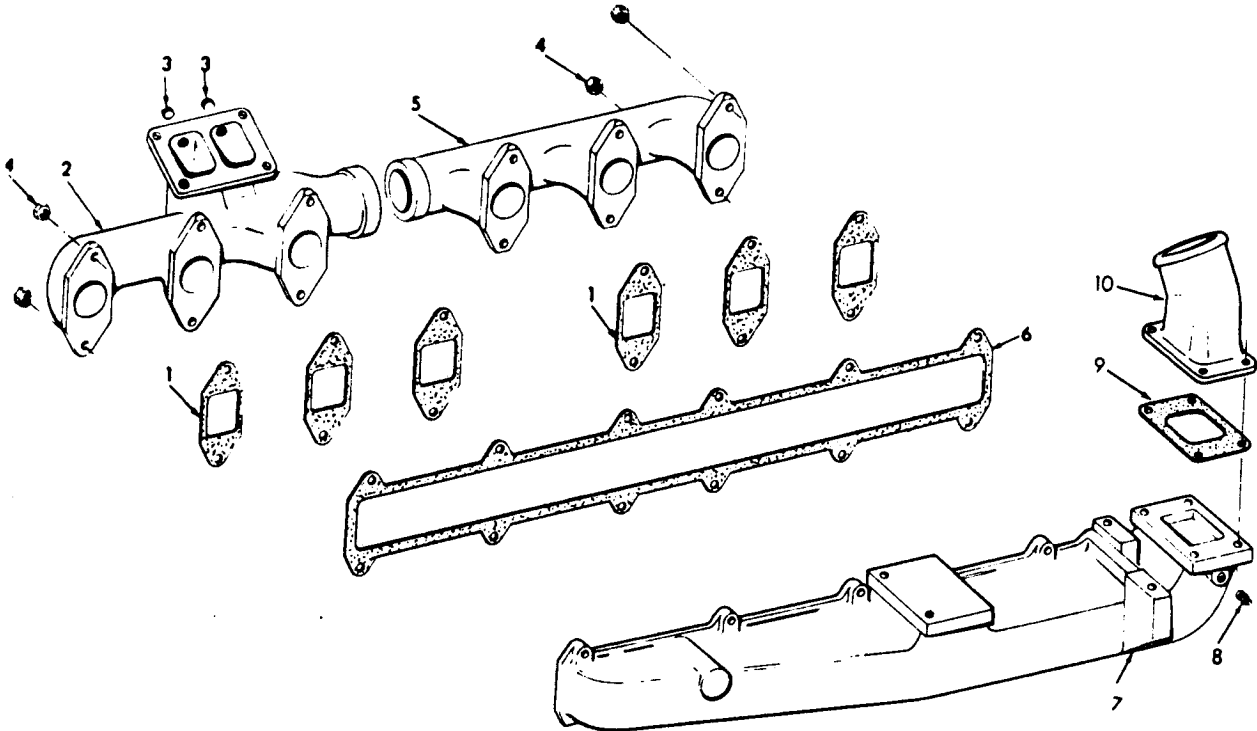
MEMORANDA

MANIFOLD

14

MANIFOLD

INTAKE AND EXHAUST MANIFOLD (D-466 for TD-12)



CG-8585

MANIFOLD

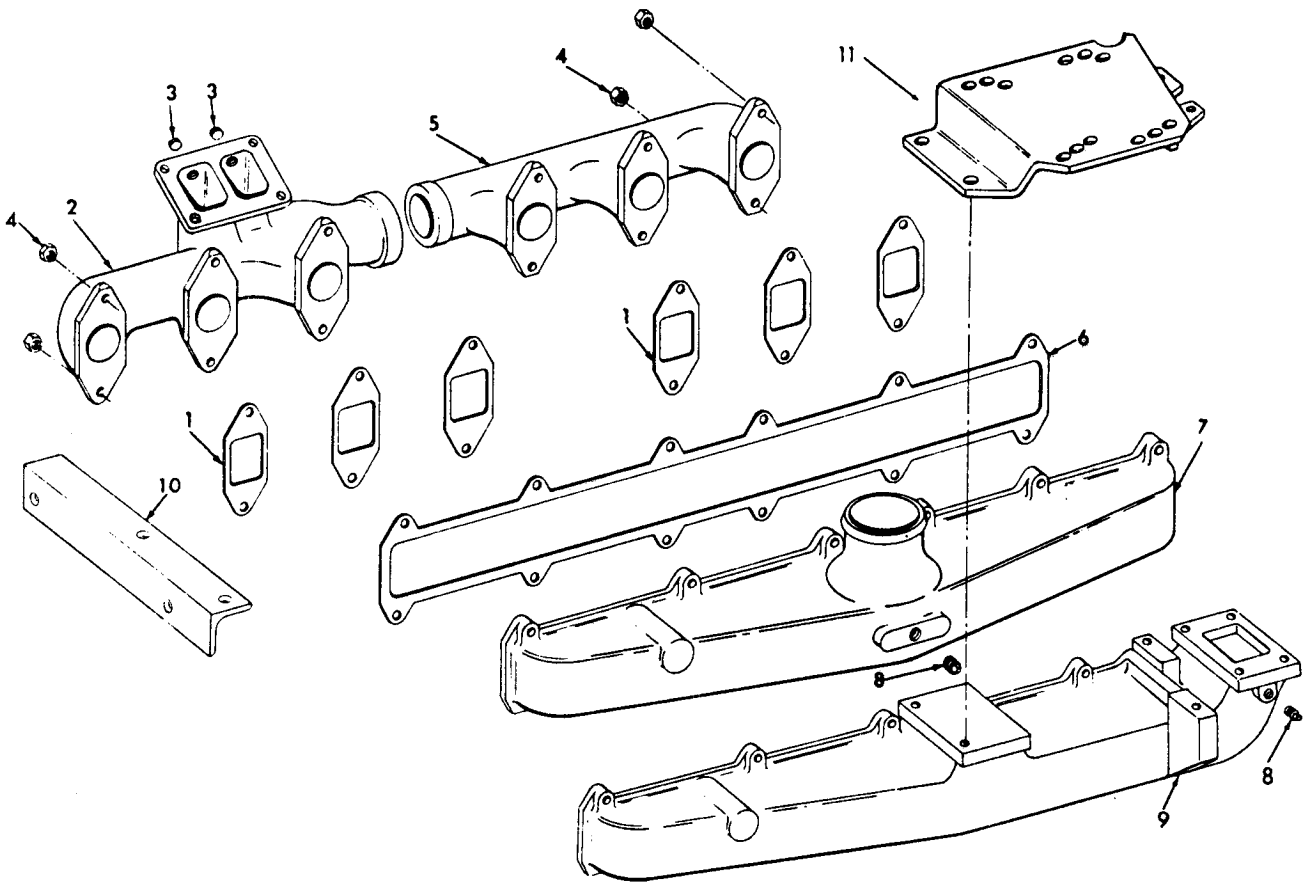
Ref No	Part Number	Description	Quantity
INTAKE AND EXHAUST MANIFOLD (D-466 for TD-12)			
1	688 928 C1	GASKET, exhaust manifold-----	6
2	675 778 C2	MANIFOLD, exhaust front-----	1
3	444 614	PLUG, 1/8" hex-hd-----	2
4	682 987 C1	NUT, 7/16" NF-----	12
	684 034 C1	WASHER, hardened-----	12
5	675 779 C3	MANIFOLD, exhaust rear-----	1
6	682 199 C1	GASKET, intake manifold-----	1
7	672 814 C1	MANIFOLD, intake-----	1
	28 338 R1	SCREW, hex-hd-----	12
	27 326 R1	WASHER, 5/16" hardened-----	12
8	20 988 R1	PLUG, sq-hd pipe-----	2
9	673 341 C1	GASKET, air inlet elbow-----	1
10	680 917 C1	ELBOW, manifold air inlet-----	1
	25 497 R1	SCREW, 1-3/8"-----	4
	25 896 R1	WASHER, 3/8" hardened-----	4
	115 093	WASHER, 3/8" lock-----	4

MANIFOLD

INTAKE AND EXHAUST MANIFOLD

(DT-414 for H-65C, 530 and E-200)

(DT-466 for H-80B, TD-15C, 175C, 412, 433 and 444)



CG-6834

MANIFOLD

Ref No	Part Number	Description	Quantity
INTAKE AND EXHAUST MANIFOLD			
(DT-414 for H-65C, 530 and E-200)			
(DT-466 for H-80B, TD-15C, 175C, 412, 433 and 444)			
1	688 928 C1	GASKET, exhaust manifold-----	6
2	673 565 C91	MANIFOLD, w/two PLUG, 445 684, exhaust front-----	1
3	444 614	PLUG, 1/8" hex-hd-----	2
4	682 987 C1	NUT, 7/16" NF-----	12
	684 034 C1	WASHER, hardened-----	12
5	675 779 C3	MANIFOLD, exhaust rear-----	1
6	682 199 C1	GASKET, intake manifold-----	1
7		(See Individual Engine Variation)	
8	444 576 R1	PLUG, sq-hd pipe-----	1
9		(See Individual Engine Variation)	
10		(See Individual Engine Variation)	
11		(See Individual Engine Variation)	
<u>ENGINE VARIATIONS</u>			
<u>(DT-414 for H-65C, 530 and E-200)</u>			
<u>(DT-466 for 412, 433 and 444)</u>			
7	675 633 C91	MANIFOLD w/PLUG, 444 576 intake-----	1
	25 751 R1	SCREW, hex-hd cap-----	12
	27 326 R1	WASHER, 5/16" hardened-----	12
<u>(DT-466 for TD-15C and 175C)</u>			
9	672 814 C1	MANIFOLD, intake-----	1
	26 032 R1	SCREW, hex-hd-----	12
	27 326 R1	WASHER, 5/16" hardened-----	12
11	673 785 C2	BRACKET, air cleaner-----	1
	101 896 R1	SCREW, 1-1/8"-----	2
	25 896 R1	WASHER, hardened-----	2
	115 093	WASHER, lock-----	2
<u>(DT-414 for H-65C, 530 and E-200)</u>			
<u>(DT-466 for H-80B, TD-15C, 175C, 412, 433 and 444)</u>			
7	675 633 C91	MANIFOLD w/PLUG, 444 576, intake-----	1
	25 751 R1	SCREW, 1-1/4" hex-hd cap-----	10
	25 654 R1	SCREW, 1-1/2" hex-hd cap-----	2
	27 326 R1	WASHER, 5/16" hardened-----	12
10	680 586 C2	SUPPORT, ether starting-----	1

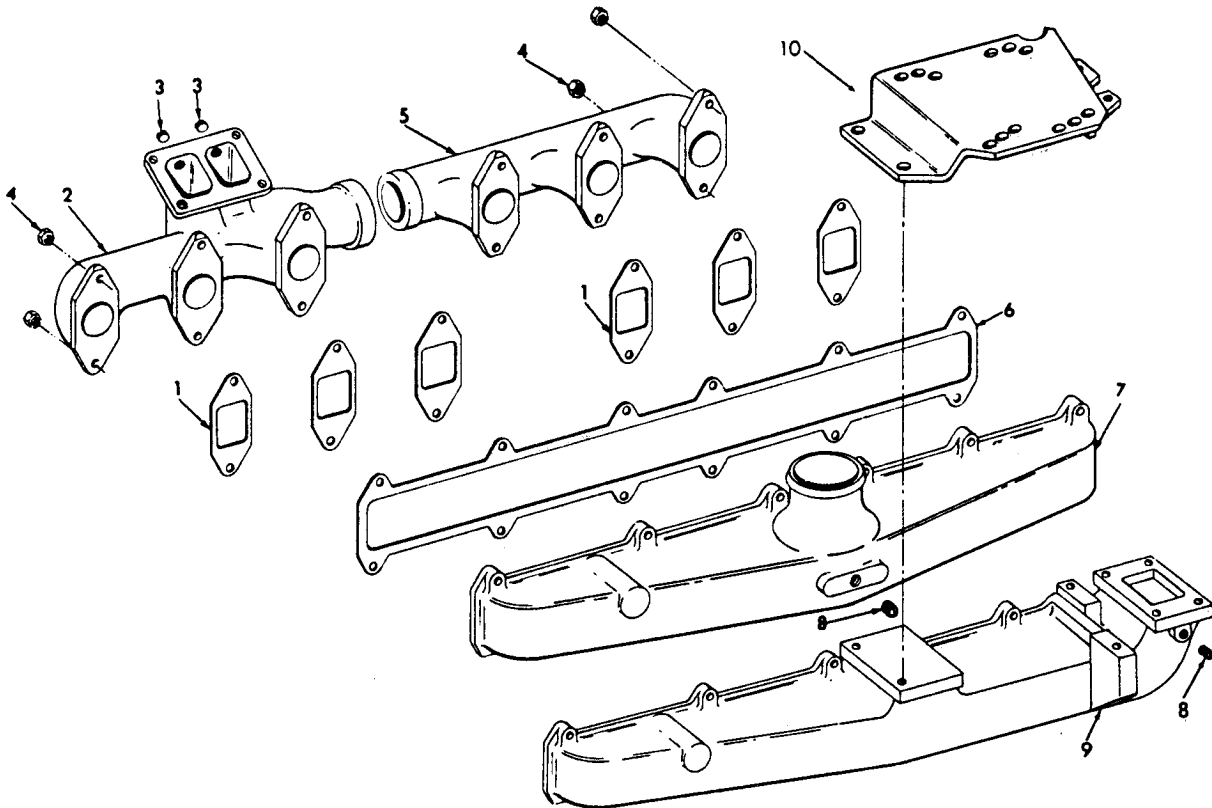
MANIFOLD

INTAKE AND EXHAUST MANIFOLD

(DT-414B for 530)

(DT-466B for TD-12, TD-15C, 175, H-80B,
540, 412, 412B, 433B and 444B)

(DT-466C for TD-15C and 175C)



CG-5672

MANIFOLD

Ref No	Part Number	Description	Quantity
INTAKE AND EXHAUST MANIFOLD			
(DT-414B for 530)			
(DT-466B for TD-12, TD-15C, 175, H-80B, 540, 412, 412B, 433B and 444B)			
(DT-466C for TD-15C and 175C)			
1	688 928 C1	GASKET, exhaust manifold-----	6
2	673 575 C91	MANIFOLD, w/two PLUG, 444 614, exhaust front-----	1
3	444 614	PLUG, 1/8" hex-hd-----	2
4	682 987 C1	NUT, 7/16" NF-----	12
	684 034 C1	WASHER, hardened-----	12
5	675 779 C3	MANIFOLD, exhaust rear-----	1
6	682 199 C1	GASKET, intake manifold-----	1
7		(See Individual Engine Variation)	
8		(See Individual Engine Variation)	
9		(See Individual Engine Variation)	
10		(See Individual Engine Variation)	

ENGINE VARIATIONS

(DT-414B for 530)

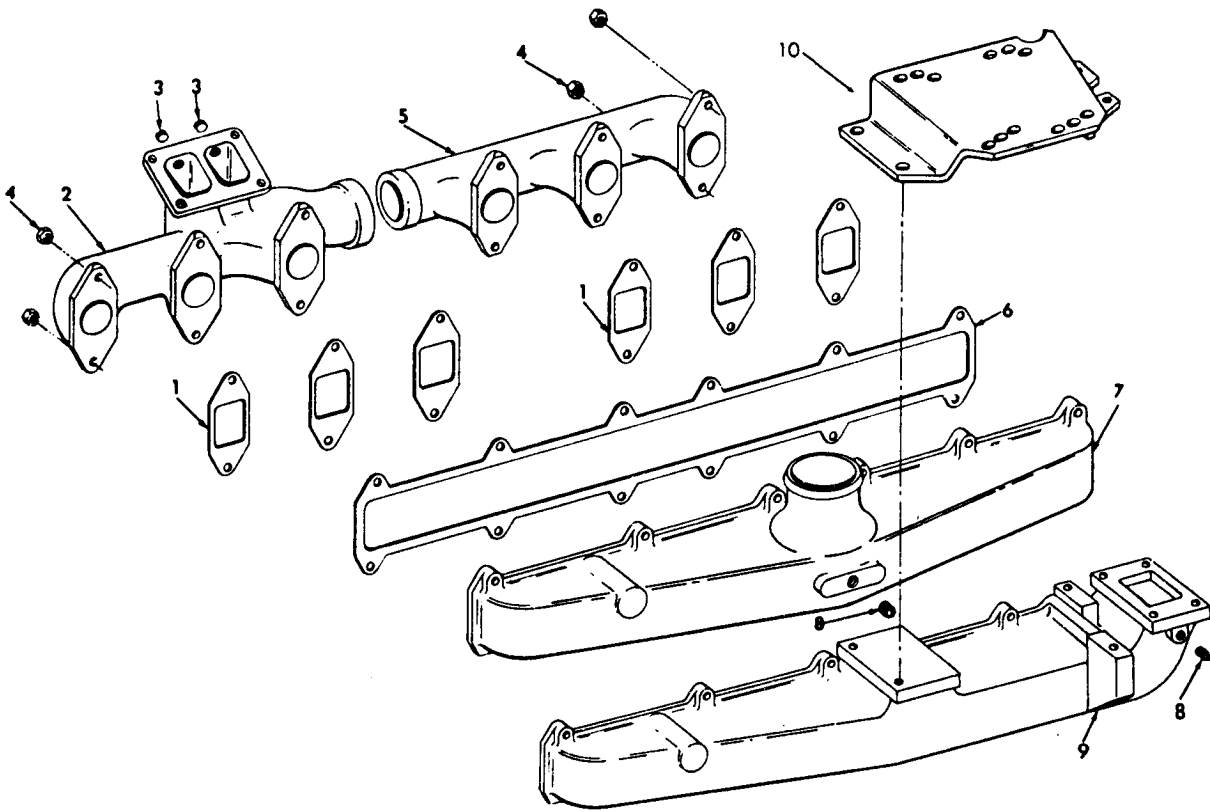
7	675 633 C91	MANIFOLD w/PLUG, 444 576 intake----- (2.97 ID turbo opening)	1
	28 338 R1	SCREW, hex-hd cap-----	12
	27 326 R1	WASHER, 5/16" hardened----- 158093 and below	12
7	691 161 C91	MANIFOLD w/PLUG, 444 576 intake----- (1.97 ID turbo opening)	1
	26 679 R1	BOLT, prevailing torque 5/16" NC x 1-1/4"-----	12
	27 326 R1	WASHER, 5/16" hardened----- 158094 and up	12
8	444 576	PLUG, sq-hd pipe-----	1

(DT-466B for 412, 412B, 433B, 444B, H-80B and 540)

7	675 633 C91	MANIFOLD w/PLUG, 444 576 intake----- (2.97 ID turbo opening)	1
	26 679 R1	BOLT, prevailing torque 5/16" NC x 1-1/4"-----	12
	27 326 R1	WASHER, 5/16" hardened----- # and below	12

MANIFOLD

INTAKE AND EXHAUST MANIFOLD - Continued
(DT-414B for 530)
(DT-466B for TD-12, TD-15C, 175, H-80B,
540, 412, 412B, 433B and 444B)
(DT-466C for TD-15C and 175C)



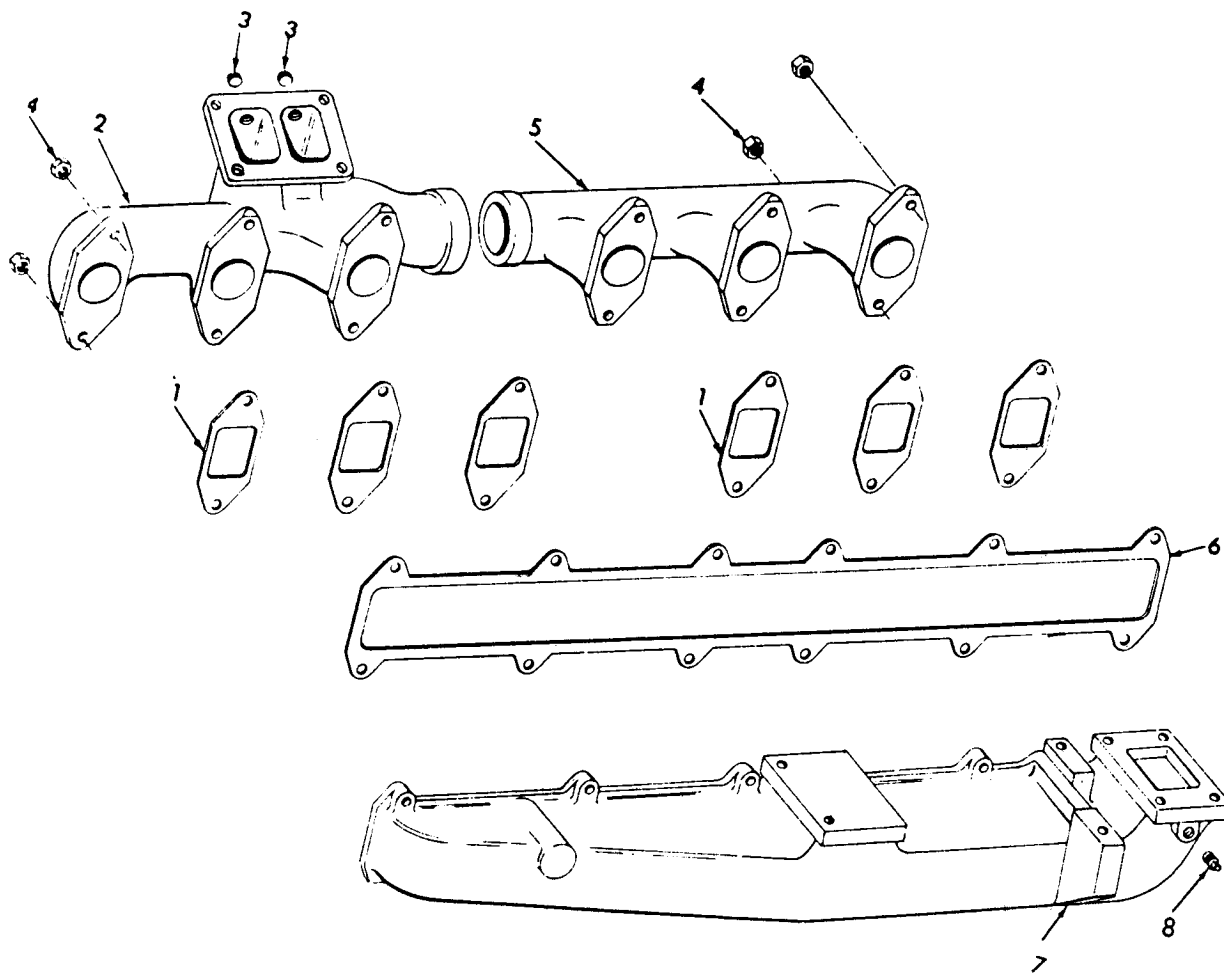
CG-5672

MANIFOLD

Ref No	Part Number	Description	Quantity
INTAKE AND EXHAUST MANIFOLD - Continued			
(DT-414B for 530)			
(DT-466B for TD-12, TD-15C, 175, H-80B, 540, 412, 412B, 433B and 444B)			
(DT-466C for TD-15C and 175C)			
7	691 161 C91	MANIFOLD w/PLUG, 444 576 intake----- (1.97 ID turbo opening)	1
	26 679 R1	BOLT, prevailing torque 5/16" NC x 1-1/4"-----	12
	27 326 R1	WASHER, 5/16" hardened----- # and up	12
8	444 576	PLUG, sq-hd pipe----- <u>(DT-466B for TD-15C, 175C and TD-12)</u> <u>(DT-466C for TD-15C and 175C)</u>	1
8	20 988 R1	PLUG, 1/4" NPT-----	1
9	672 814 C1	MANIFOLD, intake-----	1
	28 338 R1	SCREW, hex-hd cap-----	11
	27 326 R1	WASHER, 5/16" hardened-----	12
	27 430 R1	BOLT, 5/16" x 2" prevailing torque-----	1
10	673 785 C2	BRACKET, air cleaner-----	1
	101 896 R1	SCREW, 1-1/8" TD-15C and 175C-----	2
		TD-12-----	4
	25 896 R1	WASHER, hardened TD-15C and 175C-----	2
		TD-12-----	4
	115 093	WASHER, lock-----	2
		TD-15C and 175C-----	2
		TD-12-----	4

MANIFOLD

INTAKE AND EXHAUST MANIFOLD
(DT-466C for 530)
(DTI-466C for 540)



CG-6152

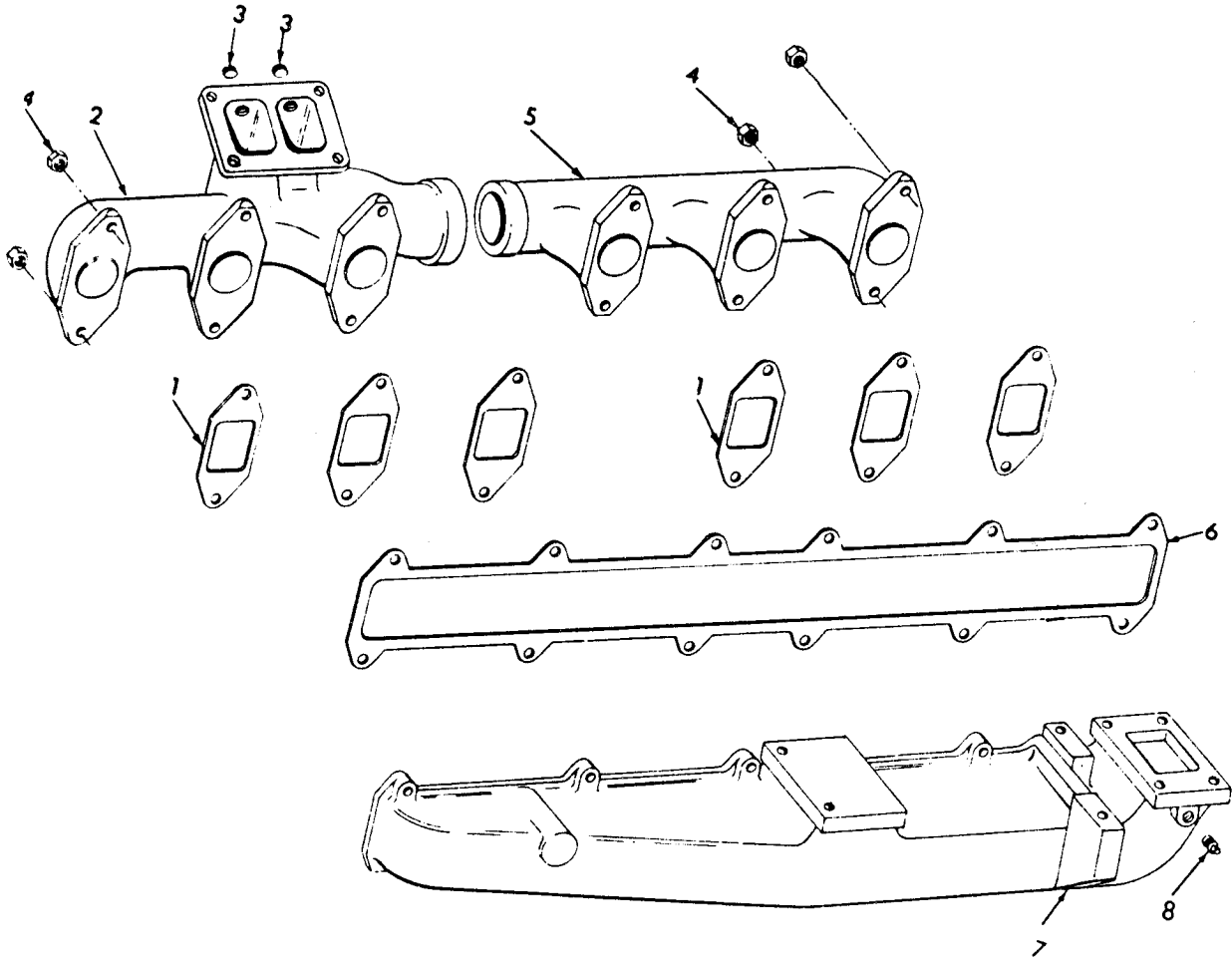
MANIFOLD

Ref No	Part Number	Description	Quantity
INTAKE AND EXHAUST MANIFOLD			
(DT-466C for 530)			
(DTI-466C for 540)			
1	688 928 C1	GASKET, exhaust manifold-----	6
2	673 575 C91	MANIFOLD, w/two PLUG, 444 614, exhaust front-----	1
3	444 614	PLUG, 1/8" hex-hd-----	2
4	682 987 C1	NUT, 7/16" NF-----	12
	684 034 C1	WASHER, hardened-----	12
5	675 779 C3	MANIFOLD, exhaust rear-----	1
6	682 199 C1	GASKET, intake manifold-----	1
7	691 161 C91	MANIFOLD w/PLUG, 444 576 intake-----	1
	26 679 R1	BOLT, 5/16" x 1-1/4" prevailing torque-----	10
	27 326 R1	WASHER, 5/16" hardened-----	10
8	444 576 R1	PLUG, 1/4" sq-hd pipe (530)-----	1

NOTE: DTI-466C does not use intake manifold listed here; refer to Intercooler Illustration.

MANIFOLD

INTAKE AND EXHAUST MANIFOLD (All Galion Applications)



CG-6152

MANIFOLD

Ref No	Part Number	Description	Quantity
INTAKE AND EXHAUST MANIFOLD (All Galion Applications)			
1	688 928 C1	GASKET, exhaust manifold-----	6
2	675 778 C91	MANIFOLD, exhaust front----- (D-466)	1
	673 575 C91	MANIFOLD, w/two PLUG, 444 614, exhaust front----- (DT-466, DT-466B and DT-466C)	1
3	444 614	PLUG, 1/8" hex-hd-----	2
4	682 987 C1	NUT, 7/16" NF-----	12
	684 034 C1	WASHER, hardened-----	12
5	675 779 C3	MANIFOLD, exhaust rear-----	1
6	682 199 C1	GASKET, intake manifold-----	1
7	672 814 C1	MANIFOLD, intake----- (LQ-157, LQ-157A, LQ-165 and LQ-165A)	1
	28 338 R1	SCREW, hex-hd cap-----	12
	27 326 R1	WASHER, 5/16" hardened-----	12
7	675 633 C91	MANIFOLD w/PLUG, 444 576 intake----- (2.97 ID air inlet opening) (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-167, LQ-167A, LQ-168, LQ-170, A400E, S450E, S500E, A450E and A500E)	1
	28 338 R1	SCREW, hex-hd cap-----	12
	27 326 R1	WASHER, 5/16" hardened-----	12
7	691 161 C91	MANIFOLD w/PLUG, 444 576 intake----- (1.97 ID air inlet opening) (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-167, LQ-167A, LQ-168, LQ-170, A550, A556, A560E, A566E, A600 and A606)	1
	26 679 R1	BOLT, 5/16" x 1-1/4" prevailing torque-----	10
	27 326 R1	WASHER, 5/16" hardened-----	10
8	444 576 R1	PLUG, 1/4" sq-hd pipe (530)-----	1
	673 341 C1	GASKET, air inlet elbow----- (LQ-157, LQ-157A, LQ-165, LQ-165A)	1

MANIFOLD

MEMORANDA

TURBOCHARGER

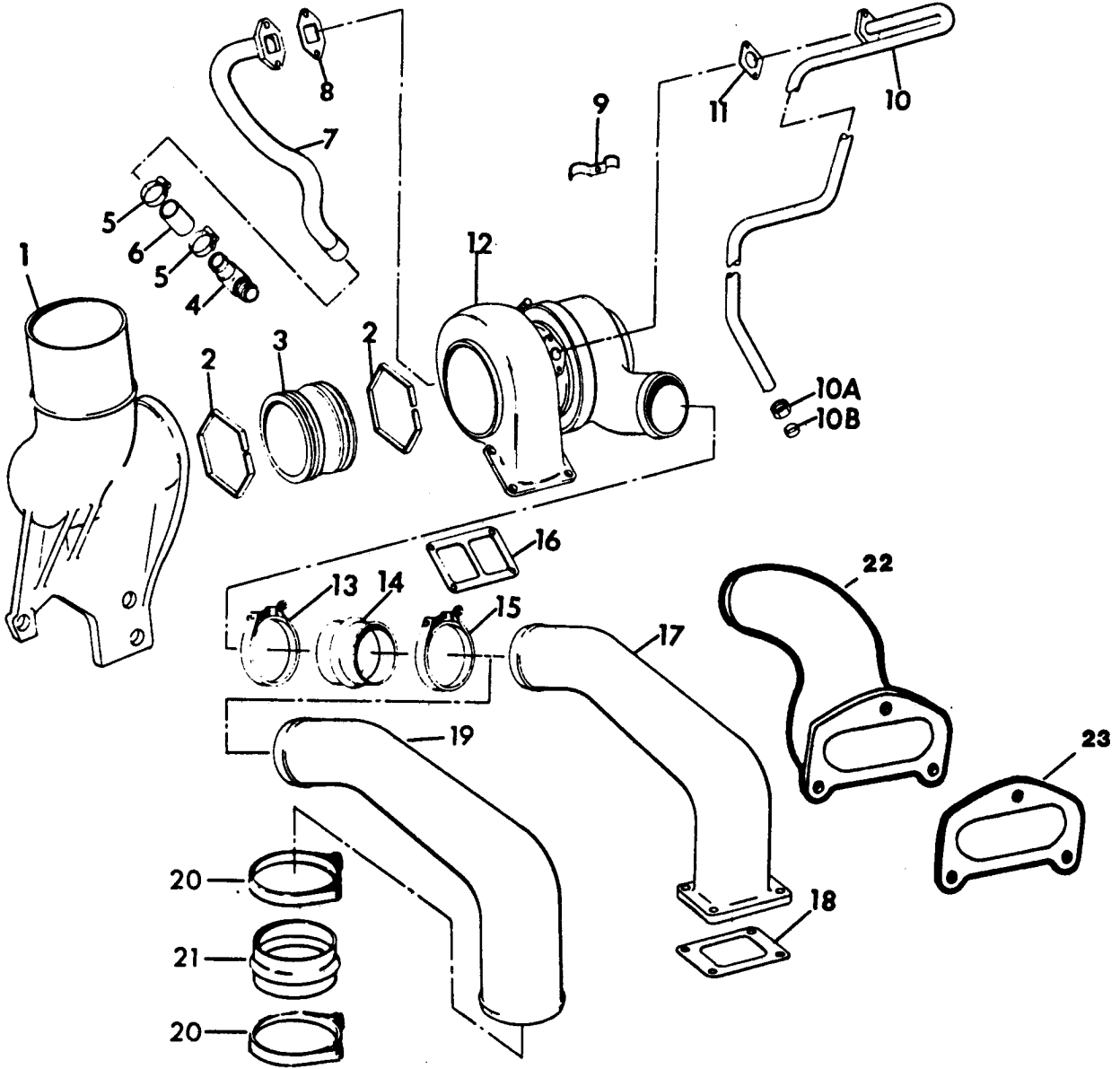
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TURBOCHARGER

Ref No	Part Number	Description	Quantity
TURBOCHARGER PIPING			
1		(See Individual Engine Variation)	
2	702 299 C1 OR 681 853 C1	RING, seal-----	2 2
3	675 317 C1	SLEEVE, turbocharger exhaust-----	1
4	673 622 C1	ELBOW, turbocharger oil drain (In crankcase)-----	1
5	122 316 R91	CLAMP, turbocharger oil drain-----	2
6	675 859 C2	HOSE, turbocharger oil drain-----	1
7	673 567 C1 151 629 R1 25 896 R1	TUBE, turbocharger oil drain----- SCREW, hex-hd cap----- WASHER, hardened-----	1 2 2
8	670 079 C1	GASKET, turbocharger oil drain tube-----	1
9		(See Individual Engine Variation)	
10		(See Individual Engine Variation)	
10A	265 205 R1	NUT-----	1
10B	265 204 R1	SLEEVE-----	1
11	253 660 R1	GASKET, turbocharger oil inlet tube-----	1
12	22 737 R1 676 524 C1	TURBOCHARGER (Refer to "Turbocharger") SCREW, 3/8" x 1-1/2" hex-hd cap----- NUT, lock-----	4 4
13	687 456 C1	CLAMP, turbocharger air outlet pipe hose-----	1
14	675 723 C2	HOSE, turbocharger air outlet pipe-----	1
15	687 456 C1	CLAMP, turbocharger air outlet pipe hose-----	1
16	670 073 C1	GASKET, turbocharger-----	1
17		(See Individual Engine Variation)	
18		(See Individual Engine Variation)	
19		(See Individual Engine Variation)	

TURBOCHARGER

TURBOCHARGER PIPING - Continued



TURBOCHARGER

Ref No	Part Number	Description	Quantity
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TURBOCHARGER PIPING - Continued

20	(See Individual Engine Variation)
21	(See Individual Engine Variation)
22	(See Individual Engine Variation)
23	(See Individual Engine Variation)

ENGINE VARIATIONS

(DT-414 for 530 and E-200)
 (DT-466 for 412, 433 and 444)

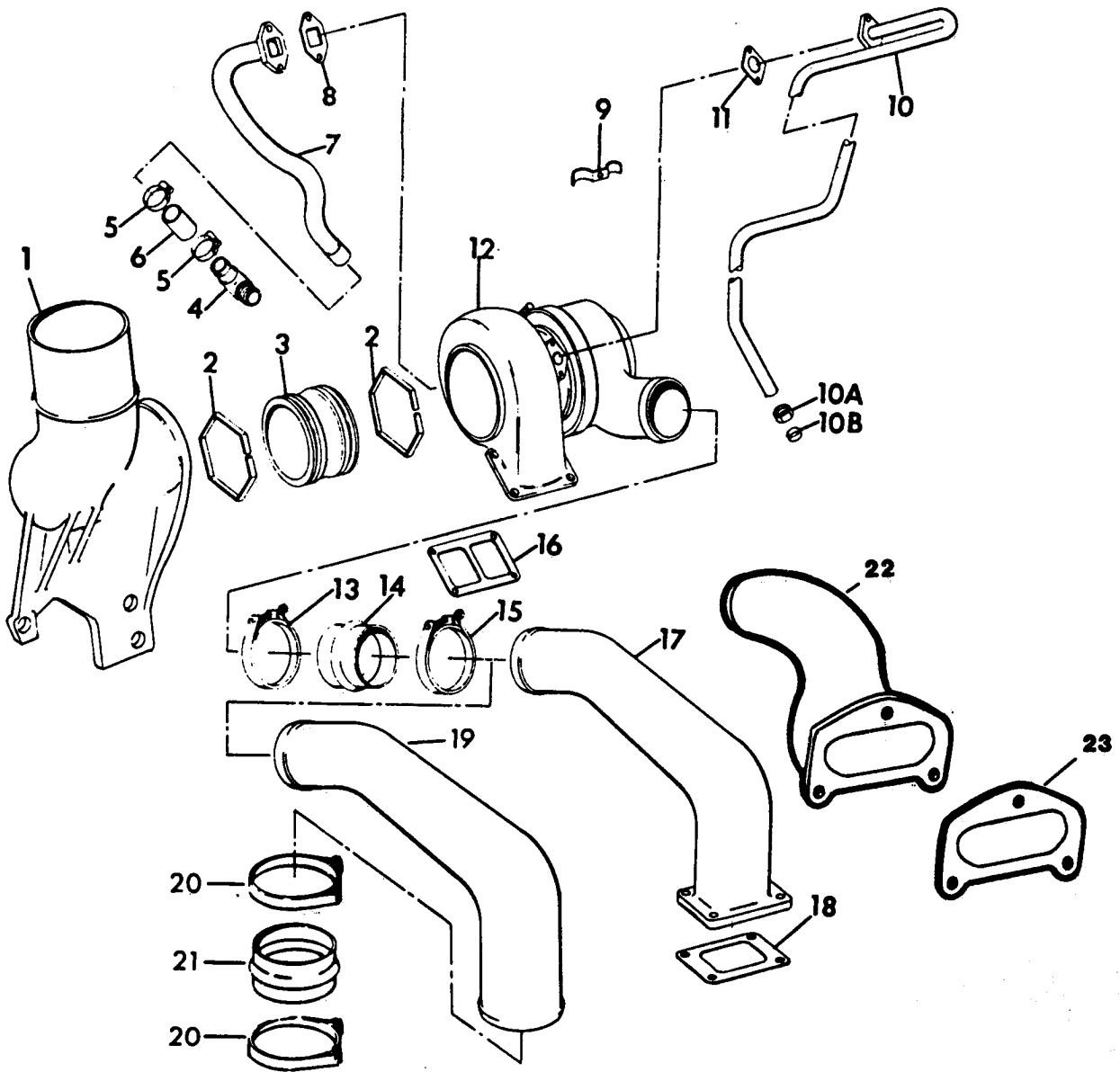
1	681 900 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3
9	279 830 R1	CLAMP, inlet and drain tubes-----	2
	262 038 R1	NUT, speed-----	1
	114 354	SCREW, 1/4-20 x 5/8" hex-hd cap-----	1
10	673 569 C92	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	24 840 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
19	675 788 C1	PIPE, turbocharger air outlet-----	1
20	687 457 C1	CLAMP, turbo air outlet pipe hose-----	2
21	675 724 C2	HOSE, turbo air outlet pipe-----	1

(DT-414 for H-65C) (DT-466 for H-80B)

1	689 375 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3
9	279 830 R1	CLAMP, inlet and drain tubes-----	2
	262 038 R1	NUT, speed-----	1
	114 354	SCREW, 1/4-20 x 5/8" hex-hd cap-----	1

TURBOCHARGER

TURBOCHARGER PIPING - Continued



TURBOCHARGER

Ref No	Part Number	Description	Quantity
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TURBOCHARGER PIPING - Continued

ENGINE VARIATIONS - Continued

(DT-414 for H-65C) (DT-466 for H-80B - Continued)

10	673 569 C92	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	24 840 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
19	675 788 C1	PIPE, turbocharger air outlet-----	1
20	687 457 C1	CLAMP, turbo air outlet pipe hose-----	2
21	675 724 C2	HOSE, turbo air outlet pipe-----	1

(DT-466, DT-466B and DT-366C for TD-15C Power Shift and 175C)

1	681 900 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3
9	279 830 R1	CLAMP, inlet and drain tubes-----	2
	262 038 R1	NUT, speed-----	1
	114 354	SCREW, 1/4-20 x 5/8" hex-hd cap-----	1
10	673 569 C92	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	24 840 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
17	673 704 C1	PIPE, turbocharger air outlet-----	1
18	673 341 C1	GASKET, intake manifold-----	1
	140 483 H	SCREW, hex-hd cap-----	4
	25 896 R1	WASHER, hardened-----	4

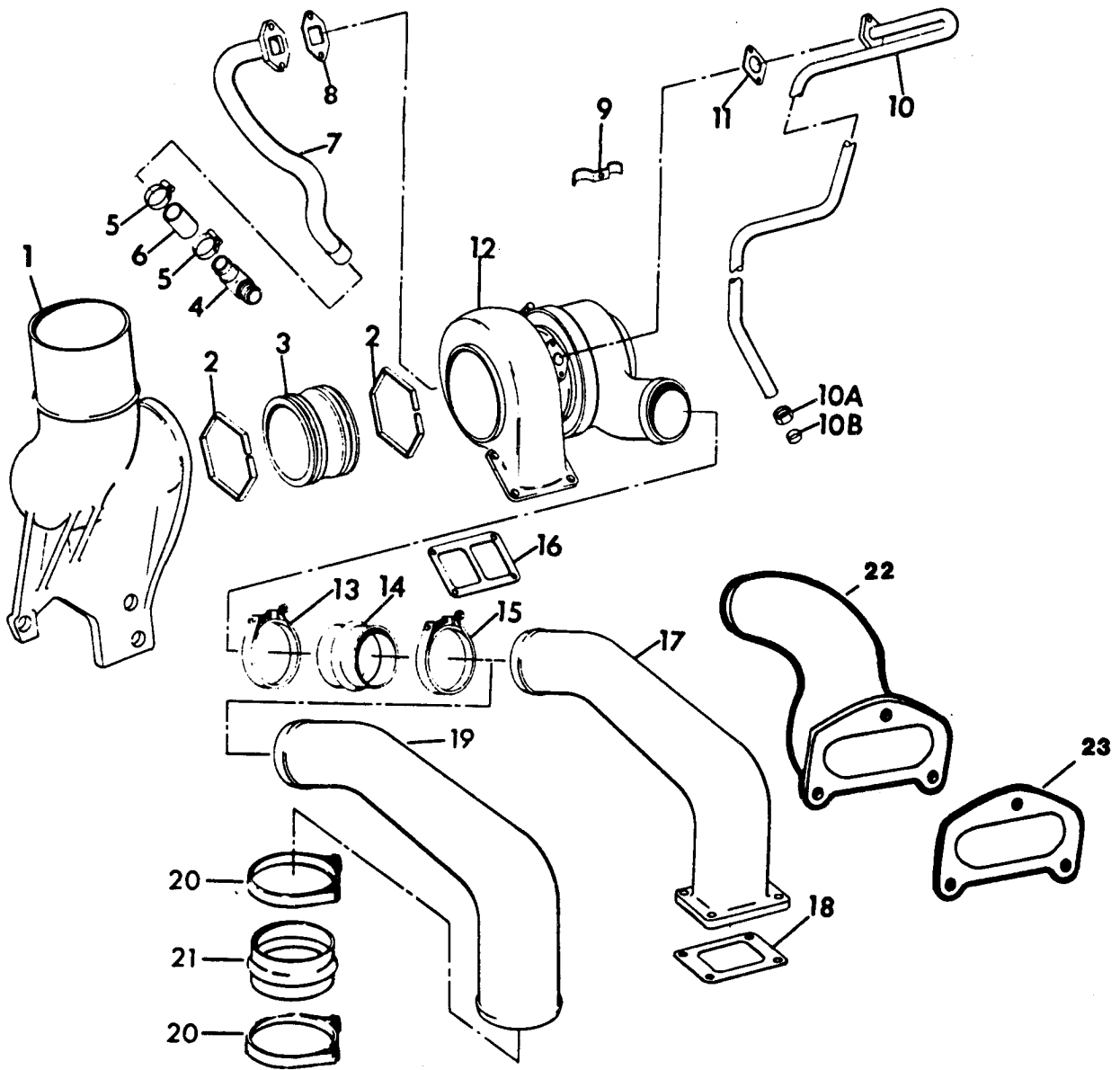
(DT-466 and DT-466B for TD-15C Manual Shift)

(DT-466B for TD-12)

1	681 900 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3

TURBOCHARGER

TURBOCHARGER PIPING - Continued



TURBOCHARGER

Ref No	Part Number	Description	Quantity
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TURBOCHARGER PIPING - Continued

ENGINE VARIATIONS - Continued

(DT-466 and DT-466B for TD-15C Manual Shift - Continued)

(DT-466B for TD-12 - Continued)

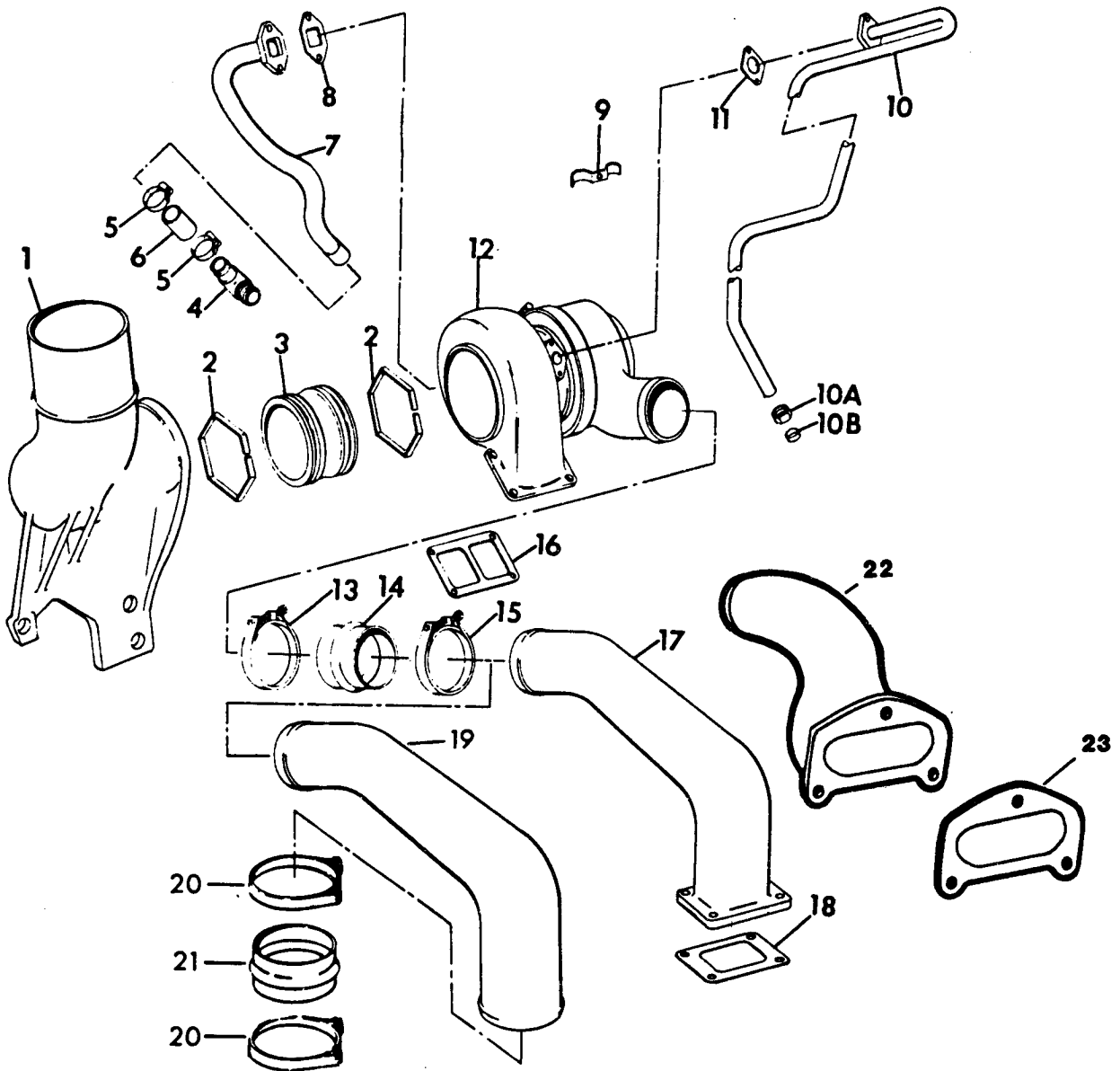
10	673 845 C91	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	24 840 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
17	673 704 C1	PIPE, turbocharger air outlet-----	1
18	673 341 C1	GASKET, intake manifold-----	1
	140 483 H	SCREW, hex-hd cap-----	4
	25 896 R1	WASHER, hardened-----	4

(DT-414B for 530) (DT-466B for 412, 433B, 444B and 540)

1	681 900 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3
9	279 830 R1	CLAMP, inlet and drain tubes-----	2
	262 038 R1	NUT, speed-----	1
	114 354	SCREW, 1/4-20 x 5/8" hex-hd cap-----	1
10	673 569 C92	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	25 493 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
19	675 788 C1	PIPE, turbocharger air outlet (cast aluminum)----- (#) and Below	1
19	691 152 C1	PIPE, turbocharger air outlet (steel tube)----- (#) and Up	1
20	687 457 C1	CLAMP, turbo air outlet pipe hose (3.81 max. opening) (#) and Below	2
20	687 456 C1	CLAMP, turbo air outlet pipe hose (2.56 max. opening) (#) and Up	2
21	675 724 C2	HOSE, turbo air outlet pipe (3.21 ID)----- (#) and Below	1
21	310 385 R2	HOSE, turbo air outlet pipe (2.21 ID)----- (#) and Up	1

TURBOCHARGER

TURBOCHARGER PIPING - Continued



TURBOCHARGER

Ref No	Part Number	Description	Quantity
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TURBOCHARGER PIPING - Continued

ENGINE VARIATIONS - Continued

(DT-466C for 530)

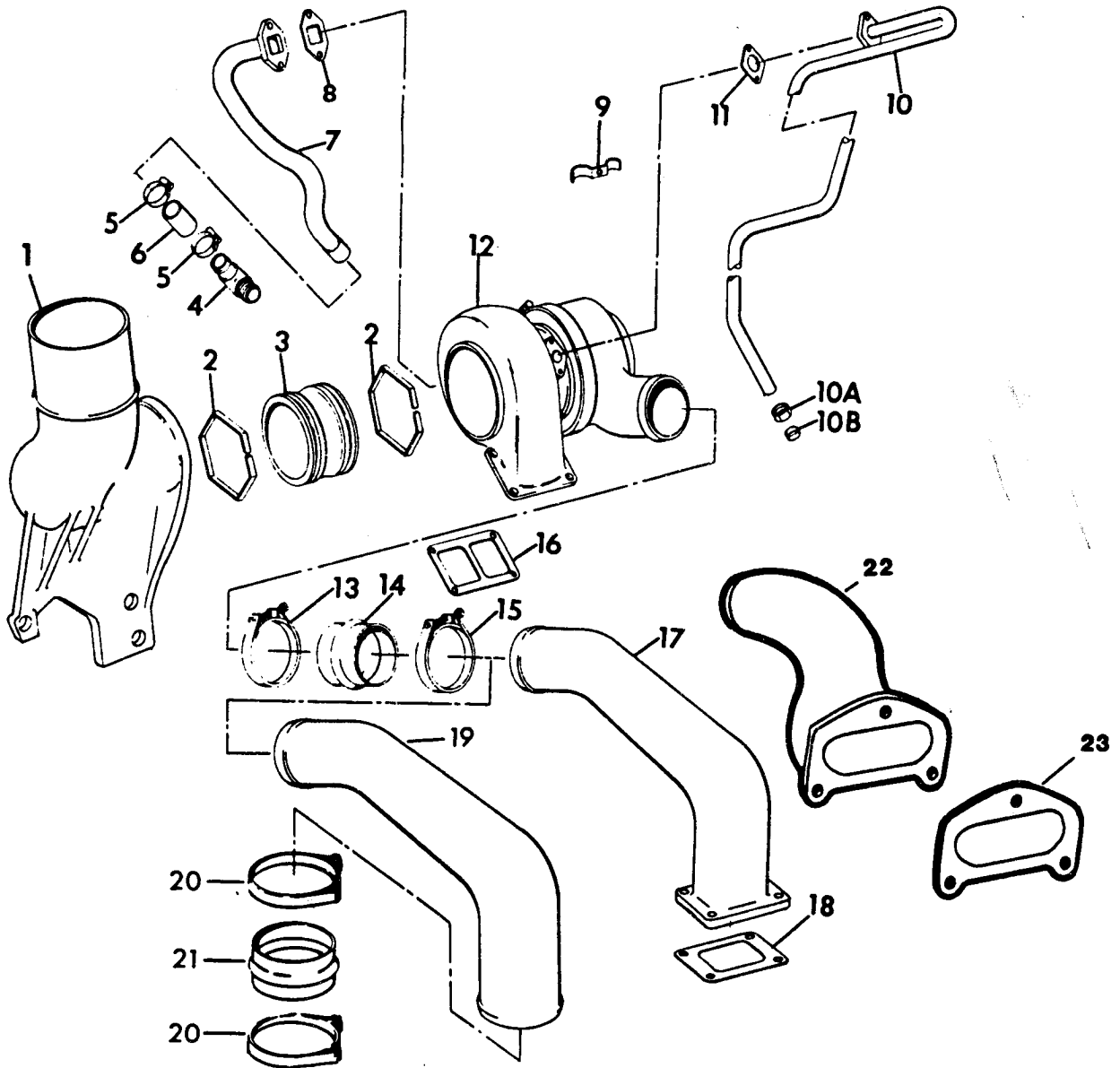
1	681 900 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3
9	279 830 R1	CLAMP, inlet and drain tubes-----	2
	262 038 R1	NUT, speed-----	1
	114 354	SCREW, 1/4-20 x 5/8" hex-hd cap-----	1
10	673 569 C92	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	25 493 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
19	691 152 C1	PIPE, turbocharger air outlet (steel tube)-----	1
20	687 456 C1	CLAMP, turbo air outlet pipe hose-----	2
21	310 385 R2	HOSE, turbo air outlet pipe (manifold end)-----	1

(DT-466B for H-80B)

1	689 375 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3
9	279 830 R1	CLAMP, inlet and drain tubes-----	2
	262 038 R1	NUT, speed-----	1
	114 354	SCREW, 1/4-20 x 5/8" hex-hd cap-----	1
10	673 569 C92	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	25 493 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
19	675 788 C1	PIPE, turbocharger air outlet (cast aluminum)----- (#) and Below	1
19	691 152 C1	PIPE, turbocharger air outlet (steel tube)----- (#) and Up	1

TURBOCHARGER

TURBOCHARGER PIPING - Continued



TURBOCHARGER

Ref No	Part Number	Description	Quantity
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TURBOCHARGER PIPING - Continued

ENGINE VARIATIONS - Continued

(DT-466B for H-80B - Continued)

20	687 457 C1	CLAMP, turbo air outlet pipe hose (3.81 max. opening) (#) and Below	2
20	687 456 C1	CLAMP, turbo air outlet pipe hose (2.56 max. opening) (#) and Up	2
21	675 724 C2	HOSE, turbo air outlet pipe (3.21 ID)----- (#) and Below	1
21	310 385 R2	HOSE, turbo air outlet pipe (2.21 ID)----- (#) and Up	1

(DTI-466C for 540)

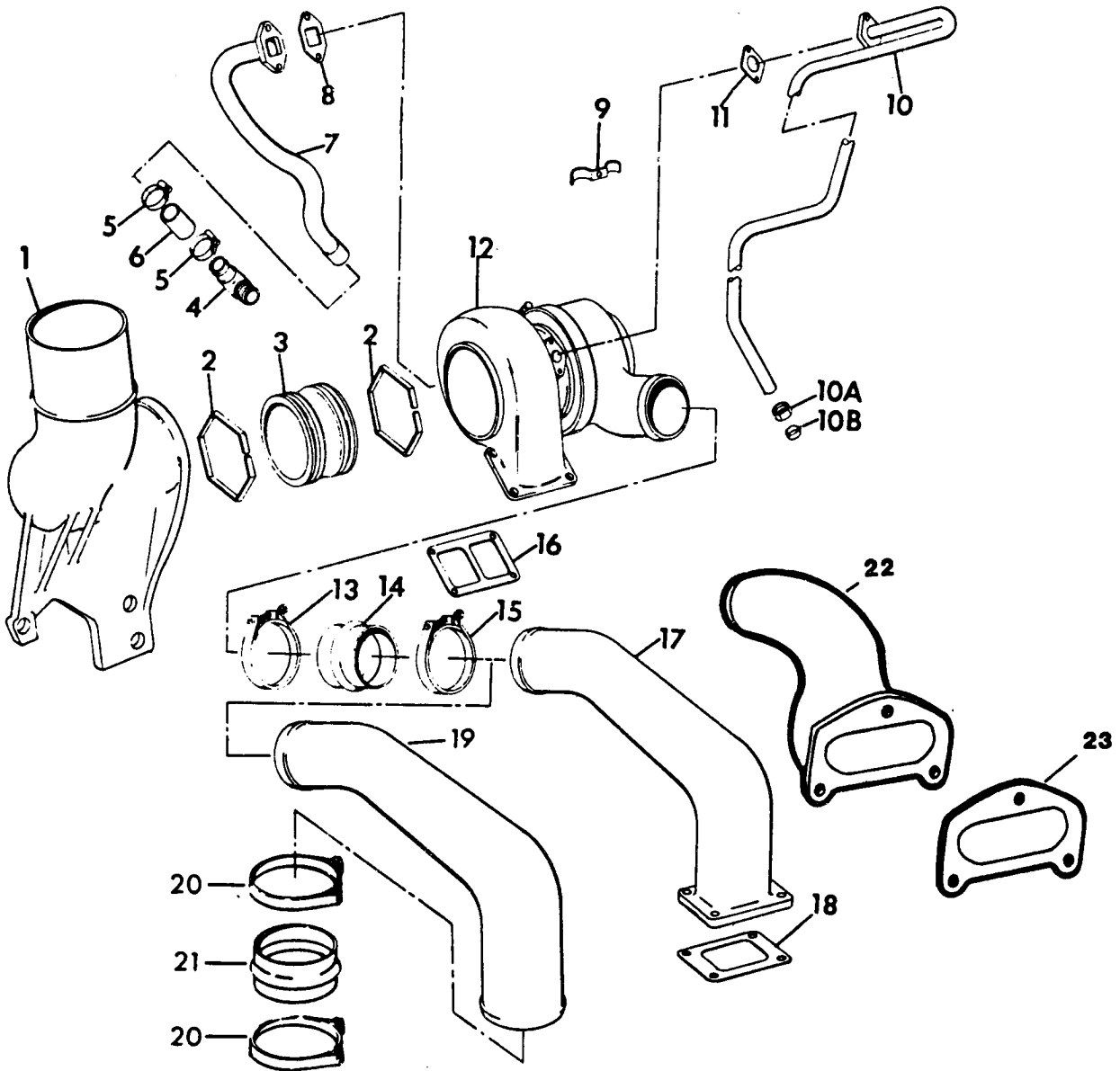
1	681 900 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3
9	279 830 R1	CLAMP, inlet and drain tubes-----	2
	262 038 R1	NUT, speed-----	1
	114 354	SCREW, 1/4-20 x 5/8" hex-hd cap-----	1
10	673 569 C92	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet-----	1
	25 493 R1	SCREW, hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	2
22	1806 948 C1	ELBOW, turbocharger air outlet, intercooler front inlet-----	1
	26 269 R1	SCREW, 5/16" x 2-3/4" hex-hd cap-----	1
	25 654 R1	SCREW, 5/16" x 1-1/2" hex-hd cap-----	2
	25 533 R1	WASHER, 5/16" plain-----	3
23	686 181 C1	GASKET, intercooler inlet elbow-----	1

(All Galion Applications)

1	681 900 C1	ELBOW, turbocharger exhaust-----	1
	445 684	PLUG-----	1
	24 877 R1	SCREW, 2-1/2" hex-hd cap-----	2
	24 880 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 547 R1	WASHER, hardened-----	3

TURBOCHARGER

TURBOCHARGER PIPING - Continued



TURBOCHARGER

Ref No	Part Number	Description	Quantity
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TURBOCHARGER PIPING - Continued

ENGINE VARIATIONS - Continued

(All Galion Applications - Continued)

9	279 830 R1 262 038 R1 114 354	CLAMP, inlet and drain tubes----- NUT, speed----- SCREW, 1/4-20 x 5/8" hex-hd cap-----	2 1 1
10	673 569 C92 25 493 R1 27 326 R1	TUBE w/NUT, 265 205 R1 and SLEEVE, 265 204 R1, turbo oil inlet----- SCREW, hex-hd cap----- WASHER, hardened-----	1 2 2
19	675 788 C1	PIPE, turbocharger air outlet (cast aluminum)----- (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-168 and LQ-170) (#) and Below	1
19	691 152 C1	PIPE, turbocharger air outlet (steel tube)----- (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-168, LQ-170, A550, A556, A560E, A566E, A600 and A606) (#) and Up	1
20	687 457 C1	CLAMP, turbo air outlet pipe hose (3.81 max. opening) (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-168 and LQ-170) (#) and Below	2
20	687 456 C1	CLAMP, turbo air outlet pipe hose (2.56 max. opening) (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-168, LQ-170, A550, A556, A560E, A566E, A600 and A606) (#) and Up	2
21	675 724 C2	HOSE, turbo air outlet pipe (3.21 ID)----- (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-168 and LQ-170) (#) and Below	1
21	310 385 R2	HOSE, turbo air outlet pipe (2.21 ID)----- (LQ-158, LQ-158A, LQ-161A, LQ-161B, LQ-166A, LQ-166B, LQ-168, LQ-170, A550, A556, A560E, A566E, A600 and A606) (#) and Up	1

TURBOCHARGER

TURBOCHARGER

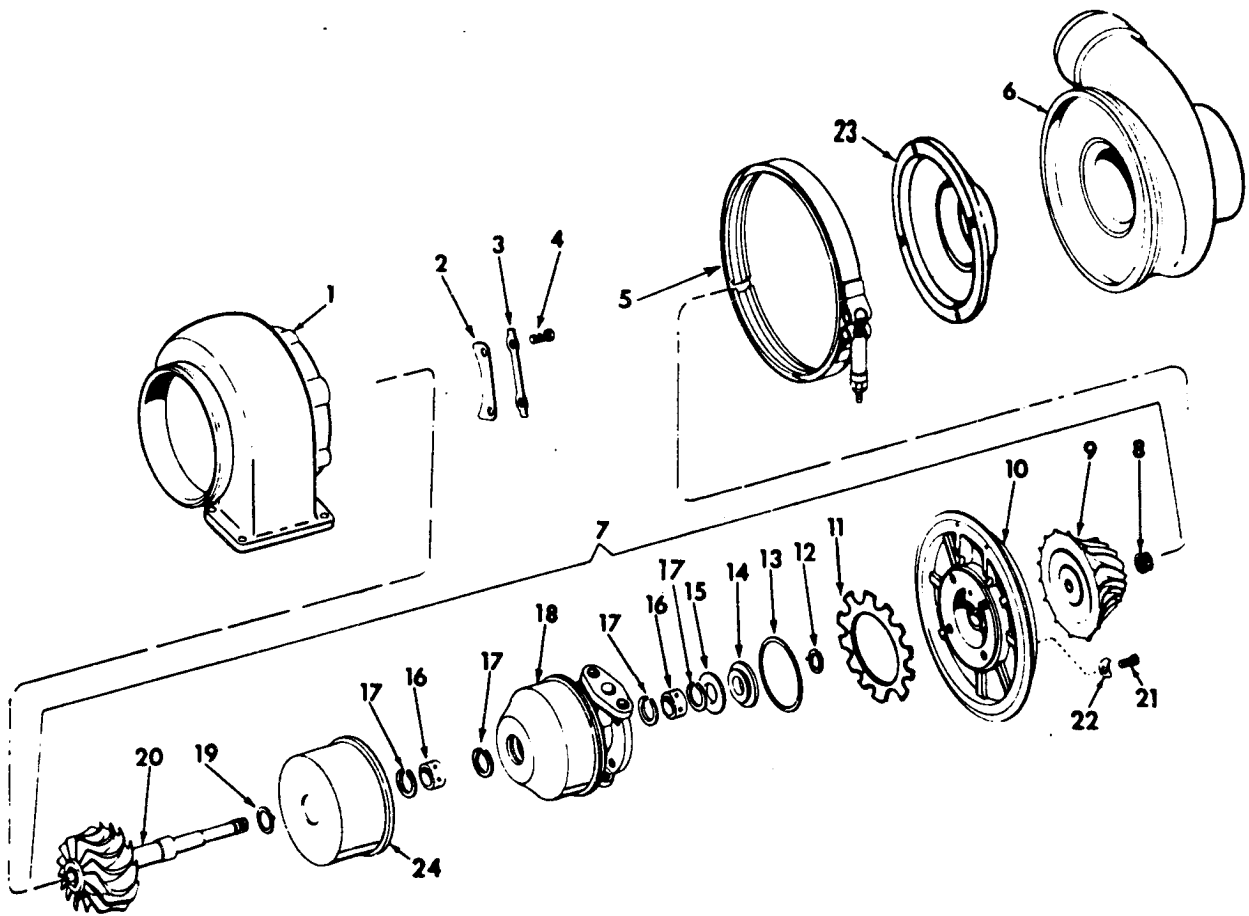
(Airesearch)

(DT-414 for E-200, 27779 and below)

(DT-466 for 412, 2310 and below)

(DT-466 for TD-15C, 2419 and below)

(DT-466 for 175C, 2489 and below)



CG-6835

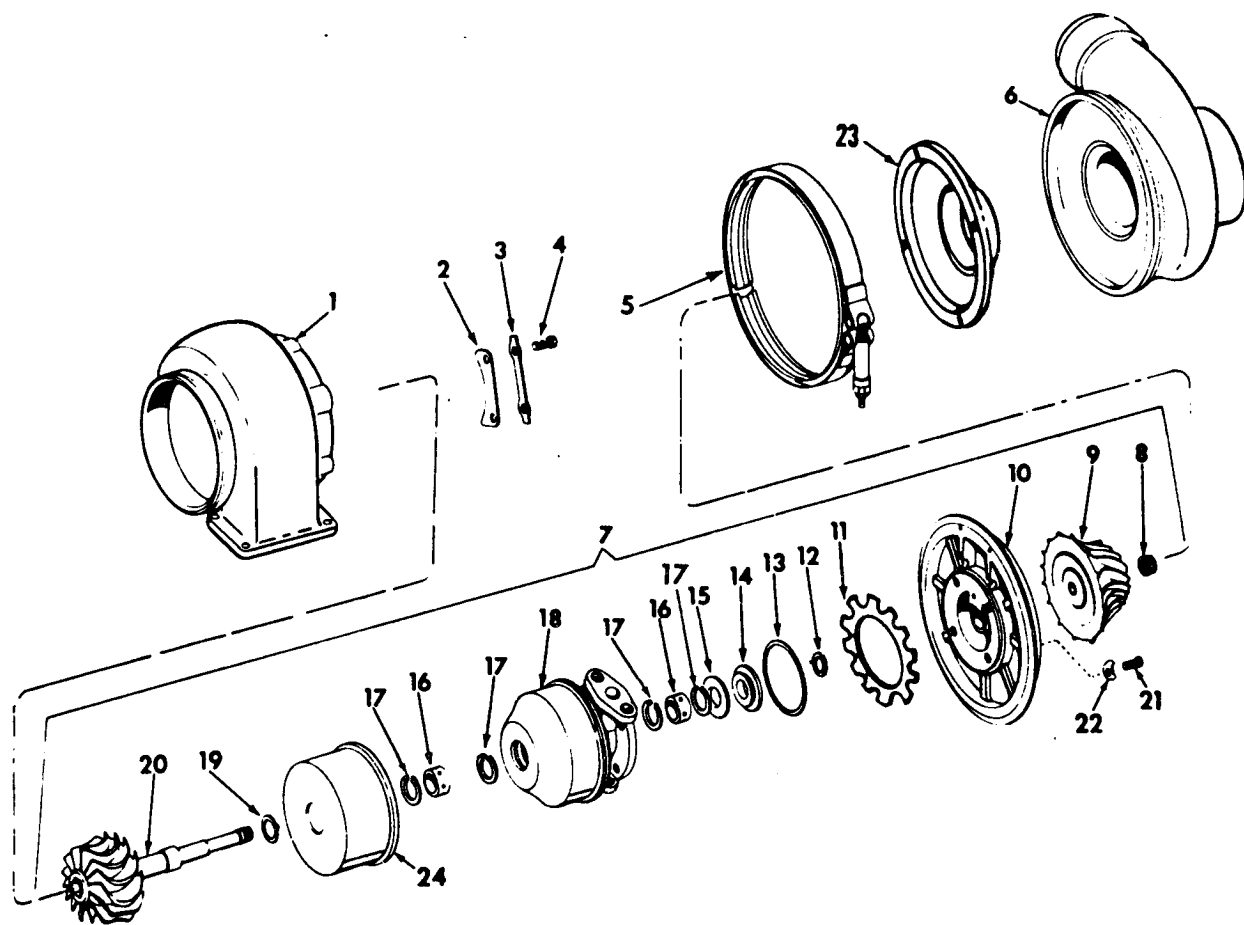
TURBOCHARGER

Ref No	Part Number	Description	Quantity
TURBOCHARGER			
(Airesearch)			
(DT-414 for E-200, 27779 and below)			
(DT-466 for 412, 2310 and below)			
(DT-466 for TD-15C, 2419 and below)			
(DT-466 for 175C, 2489 and below)			
	674 985 C91	TURBOCHARGER ASSY (T0476)----- (Order TURBOCHARGER ASSY, 684 240 C92)	1
	22 737 R1	SCREW, hex-hd cap-----	4
	676 524 C1	NUT----- Consists of the following parts:	4
1	615 738 C1	HOUSING, turbine-----	1
2	684 245 C1	CLAMP, housing-----	3
3	615 739 C1	PLATE, lock-----	3
4	684 246 C1	SCREW, 5/16" x 1-1/2" hex-hd cap-----	6
5	702 327 C91	CLAMP ASSY-----	1
6	619 377 C1	HOUSING, compressor-----	1
7	680 087 C92	CORE ASSY, housing-----	1
8	615 741 C1	NUT, impeller lock-----	1
9	619 376 C1	WHEEL, impeller-----	1
10	627 772 C91	PLATE w/SPRING, 615 747 C1, back-----	1
11	615 747 C1	SPRING, collar-----	1
12	615 746 C1	RING, piston-----	1
13	343 847 R1	RING, plate seal-----	1
14	615 745 C1	COLLAR, thrust-----	1
15	627 773 C1	BEARING, inboard thrust-----	1
16	680 444 C1	BEARING, shaft-----	2
17	627 774 C1	RING, retaining-----	4
18		HOUSING, rotating (Order PACKAGE, 684 360 C91)-----	1

TURBOCHARGER

TURBOCHARGER - Continued (Airesearch)

(DT-414 for E-200, 27779 and below)
(DT-466 for 412, 2310 and below)
(DT-466 for TD-15C, 2419 and below)
(DT-466 for 175C, 2489 and below)



CG-6835

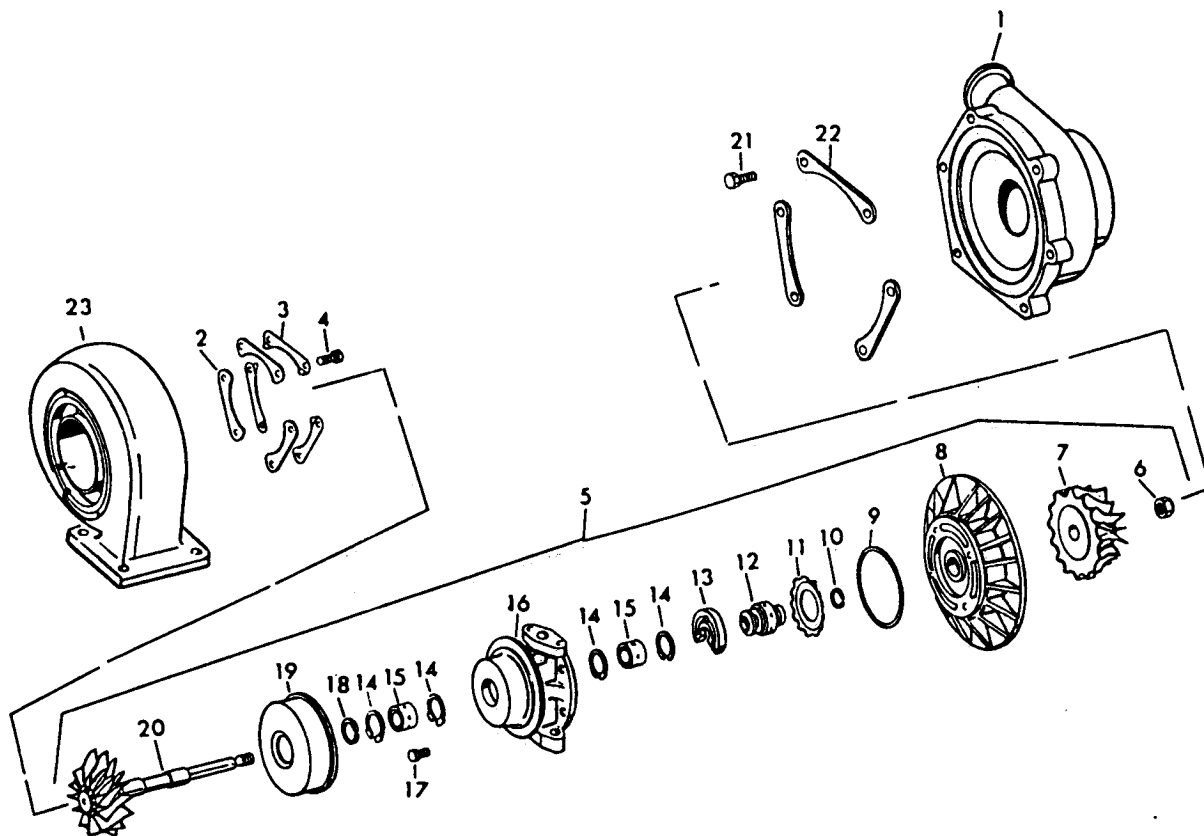
TURBOCHARGER

Ref No	Part Number	Description	Quantity
TURBOCHARGER - Continued			
(Airesearch)			
(DT-414 for E-200, 27779 and below)			
(DT-466 for 412, 2310 and below)			
(DT-466 for TD-15C, 2419 and below)			
(DT-466 for 175C, 2489 and below)			
19	619 010 C1	RING, piston seal-----	1
20	702 625 C1	WHEEL and SHAFT, turbine-----	1
21	24 480 R1	SCREW, 1/4" x 5/8" hex-hd cap-----	4
22	625 675 C1	PLATE, bolt lock-----	2
23	619 378 C1	DIFFUSER, compression-----	1
24	627 771 C1	SHROUD, turbine wheel-----	1
	684 360 C91	PACKAGE, center housing----- (Consists of HOUSING and RING, 684 359 C1)	1
	627 912 C91	CORE ASSY (Remanufactured)-----	1

TURBOCHARGER

TURBOCHARGER

- (DT-414 for H-65C, 501 thru 33087)
- (DT-414 for E-200, 27780 thru 31880)
- (DT-466 for 412, 2311 thru 3121)
- (DT-466 for TD-15C, 2420 thru 3130)
- (DT-466 for 175C, 2490 thru 3182)
- (DT-466 for H-80B, 501 thru 2768)
- (DT-466 for 433 and 444, 501 thru 2700)



CG-10389

TURBOCHARGER

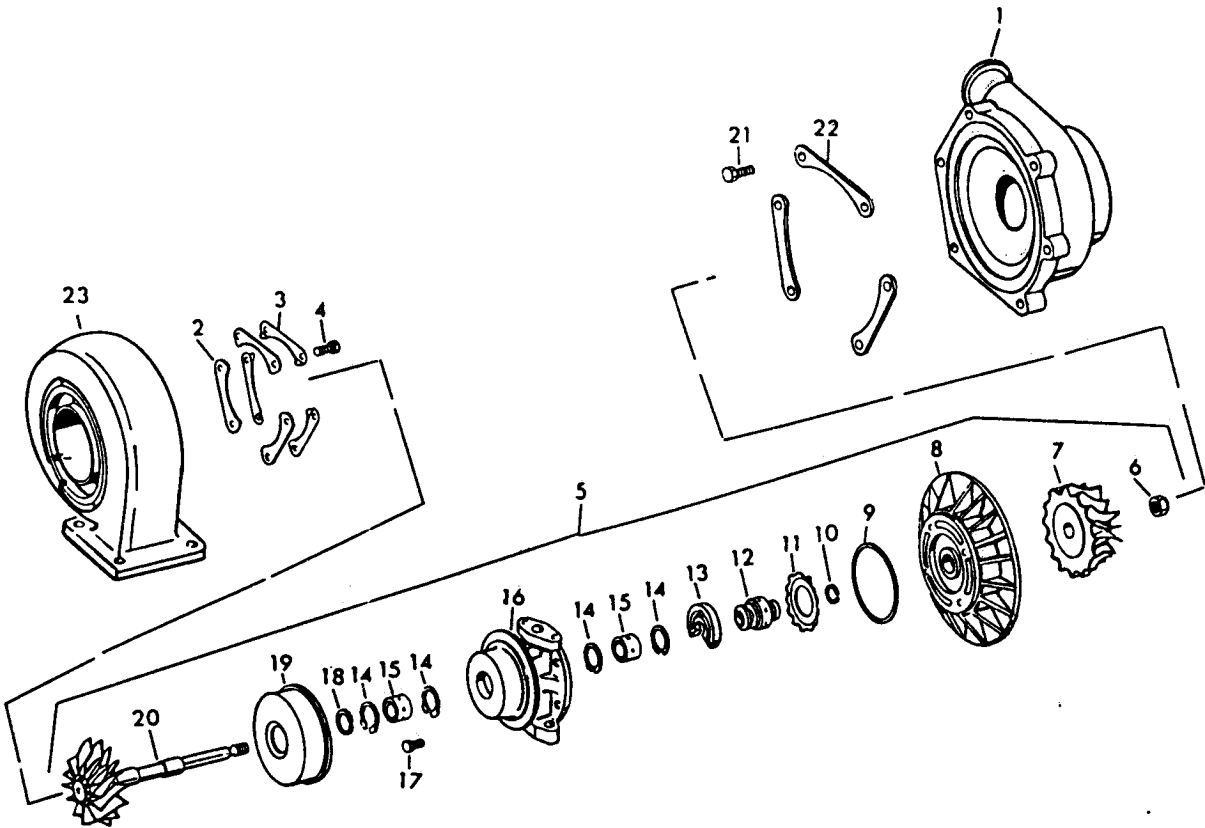
Ref No	Part Number	Description	Quantity
TURBOCHARGER			
(DT-414 for H-65C, 501 thru 33087)			
(DT-414 for E-200, 27780 thru 31880)			
(DT-466 for 412, 2311 thru 3121)			
(DT-466 for TD-15C, 2420 thru 3130)			
(DT-466 for 175C, 2490 thru 3182)			
(DT-466 for H-80B, 501 thru 2768)			
(DT-466 for 433 and 444, 501 thru 2700)			
Parts without letters after the Description indicates the part is used for both assemblies listed below			
A	680 098 C91	TURBOCHARGER ASSY (T04B12)----- (DT-414 for H-65C, 501 thru 33087) (DT-414 for E-200, 27780 thru 31880) (DT-466 for 412, 2311 thru 3121) (DT-466 for TD-15C, 2420 thru 3130) (DT-466 for 175C, 2490 thru 3182) (Order TURBOCHARGER ASSY, 684 240 C92)	1
B	674 997 C91	TURBOCHARGER ASSY (T04B12)----- (DT-466 for H-80B, 501 thru 2768) (DT-466 for 433 and 444, 501 thru 2700) (Order TURBOCHARGER ASSY, 684 238 C91) Consists of the following parts:	1
1	684 248 C1	HOUSING, turbo compressor----- (Together w/WHEEL, 684 247 C1, will work for 630 608 C1) *	1
2	684 245 C1	CLAMP, turbo turbine housing-----	3
3	615 739 C1	PLATE, housing lock-----	3
4	684 246 C1	BOLT, hex-hd-----	6
5	684 243 C91	CORE ASSY, housing-----	1
6	615 741 C1	NUT, impeller lock-----	1
7	684 247 C1	WHEEL, impeller----- (Together w/HOUSING, 684 248 C1 will work for 630 613 C1)	1
8	630 614 C91	PLATE w/SPRING, 615 747 C1, back-----	1
9	343 847 R1	RING, center housing seal-----	1
10	615 746 C1	RING, turbo compressor housing piston-----	1

*Reference Service Bulletin 12C-74-01 dated 6-9-74

TURBOCHARGER

TURBOCHARGER - Continued

- (DT-414 for H-65C, 501 thru 33087)
- (DT-414 for E-200, 27780 thru 31880)
- (DT-466 for 412, 2311 thru 3121)
- (DT-466 for TD-15C, 2420 thru 3130)
- (DT-466 for 175C, 2490 thru 3182)
- (DT-466 for H-80B, 501 thru 2768)
- (DT-466 for 433 and 444, 501 thru 2700)



CG-10389

TURBOCHARGER

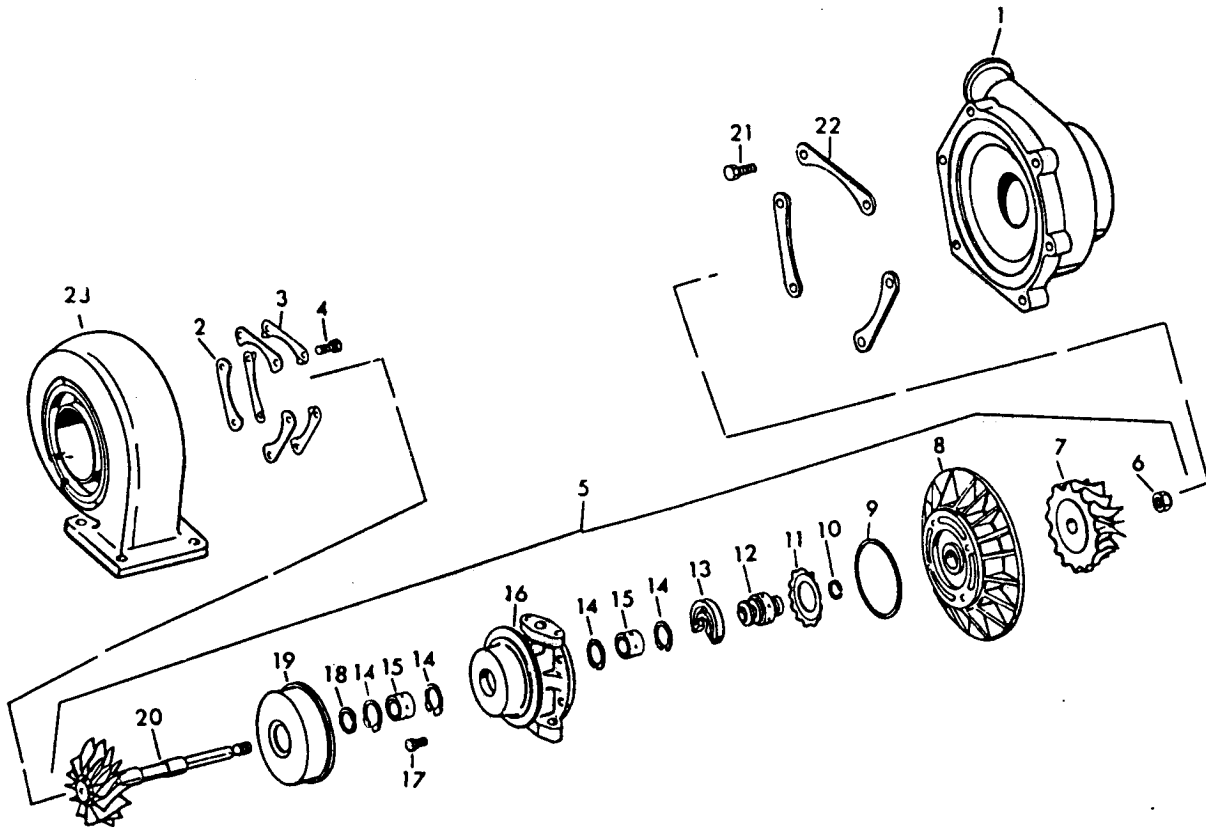
Ref No	Part Number	Description	Quantity
TURBOCHARGER - Continued			
(DT-414 for H-65C, 501 thru 33087)			
(DT-414 for E-200, 27780 thru 31880)			
(DT-466 for 412, 2311 thru 3121)			
(DT-466 for TD-15C, 2420 thru 3130)			
(DT-466 for 175C, 2490 thru 3182)			
(DT-466 for H-80B, 501 thru 2768)			
(DT-466 for 433 and 444, 501 thru 2700)			
11	615 747 C1	SPRING, back plate collar-----	1
12	615 745 C2	COLLAR, thrust-----	1
13	627 773 C1	BEARING, thrust-----	1
14	627 774 C1	RING, bearing retainer-----	4
15	687 965 C1	BEARING, housing-----	2
16	684 360 C92	PACKAGE, housing center----- (Consists of HOUSING and RING, 684 359 C2)	1
17	1809 617 C1	BOLT, back plate (center housing) self-locking hex-hd (Replaces Std. Bolt and Lock Plate, 625 675 C1; when replacing Lock Plate both Lock Plates must be replaced w/four BOLT, 1809 617 C1)	4
18	684 359 C2	RING, turbo turbine housing piston-----	1
19	627 771 C1	SHROUD, turbine wheel-----	1
20	702 625 C1	WHEEL and SHAFT, turbine-----	1
21	1809 618 C1	BOLT, (compressor housing) self-locking hex-hd----- (Replaces Std. Bolt and Lock Plate, 630 609 C1; when replacing Lock Plate all three Lock Plates must be replaced w/six BOLT, 1809 618 C1)	6
22	630 610 C1	CLAMP, turbo compressor housing plate-----	3
23	630 375 C1	HOUSING, turbine (A)-----	1
	630 611 C1	HOUSING, turbine (B)-----	1
	684 244 C91	CORE ASSEMBLY (Remanufactured)----- (Individual component parts making up remanu- factured core assemblies are not serviceable by themselves) (Also order compressor HOUSING, 684 248 C1) *	AR

*Reference Service Bulletin 12C-74-01 dated 6-9-74

TURBOCHARGER

TURBOCHARGER

(DT-466 for H-80B, 2769 and up)
(DT-466 for 433 and 444, 2701 and up)
(DT-466 for Galion LQ-158)



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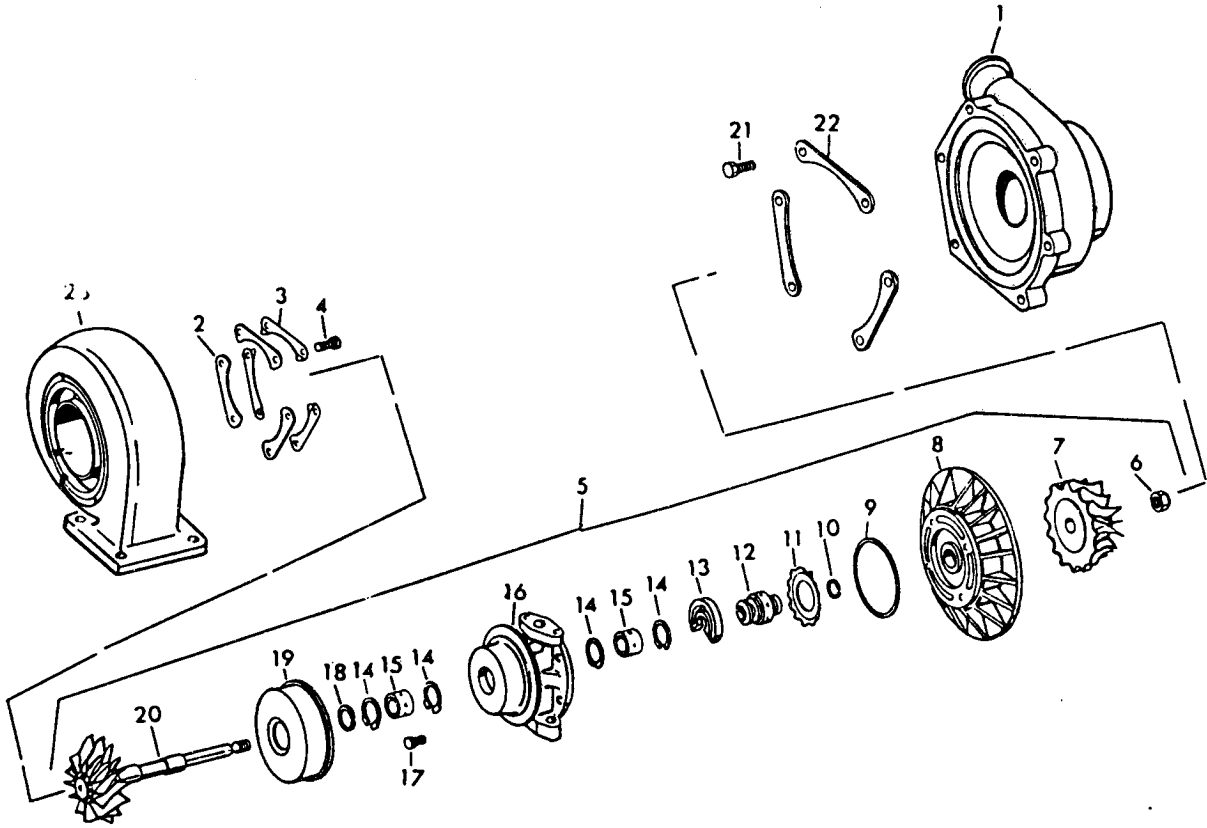
TURBOCHARGER

Ref No	Part Number	Description	Quantity
TURBOCHARGER			
(DT-466 for H-80B, 2769 and up)			
(DT-466 for 433 and 444, 2701 and up)			
(DT-466 for Galion LQ-158)			
	684 238 C91	TURBOCHARGER ASSY (T04B18)----- Consists of the following parts:	1
1	684 248 C1	HOUSING, turbo compressor-----	1
2	684 245 C1	CLAMP, turbo turbine housing-----	3
3	615 739 C1	PLATE, housing lock-----	3
4	684 246 C1	BOLT, hex-hd-----	6
5	684 243 C91	CORE ASSY, housing-----	1
6	615 741 C2	NUT, impeller lock-----	1
7	684 247 C1	WHEEL, impeller-----	1
8	630 614 C91	PLATE w/SPRING, 615 747 C1, back-----	1
9	343 847 R1	RING, center housing seal-----	1
10	615 746 C1	RING, turbo compressor housing piston-----	1
11	615 747 C1	SPRING, back plate collar-----	1
12	615 745 C2	COLLAR, thrust-----	1
13	627 773 C1	BEARING, thrust-----	1
14	627 774 C1	RING, bearing retainer-----	4
15	687 965 C1	BEARING, housing-----	2
16	684 360 C92	PACKAGE, housing center----- (Consists of HOUSING and RING, 684 359 C2)	1
17	1809 617 C1	BOLT, back plate (center housing) self-locking hex-hd (Replaces Std. Bolt and Lock Plate, 625 675 C1; when replacing Lock Plate both Lock Plates must be replaced w/four BOLT, 1809 617 C1)	4
18	684 359 C2	RING, turbo turbine housing piston-----	1
19	627 771 C1	SHROUD, turbine wheel-----	1

TURBOCHARGER

TURBOCHARGER - Continued

(DT-466 for H-80B, 2769 and up)
(DT-466 for 433 and 444, 2701 and up)
(DT-466 for Galion LQ-158)



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TURBOCHARGER

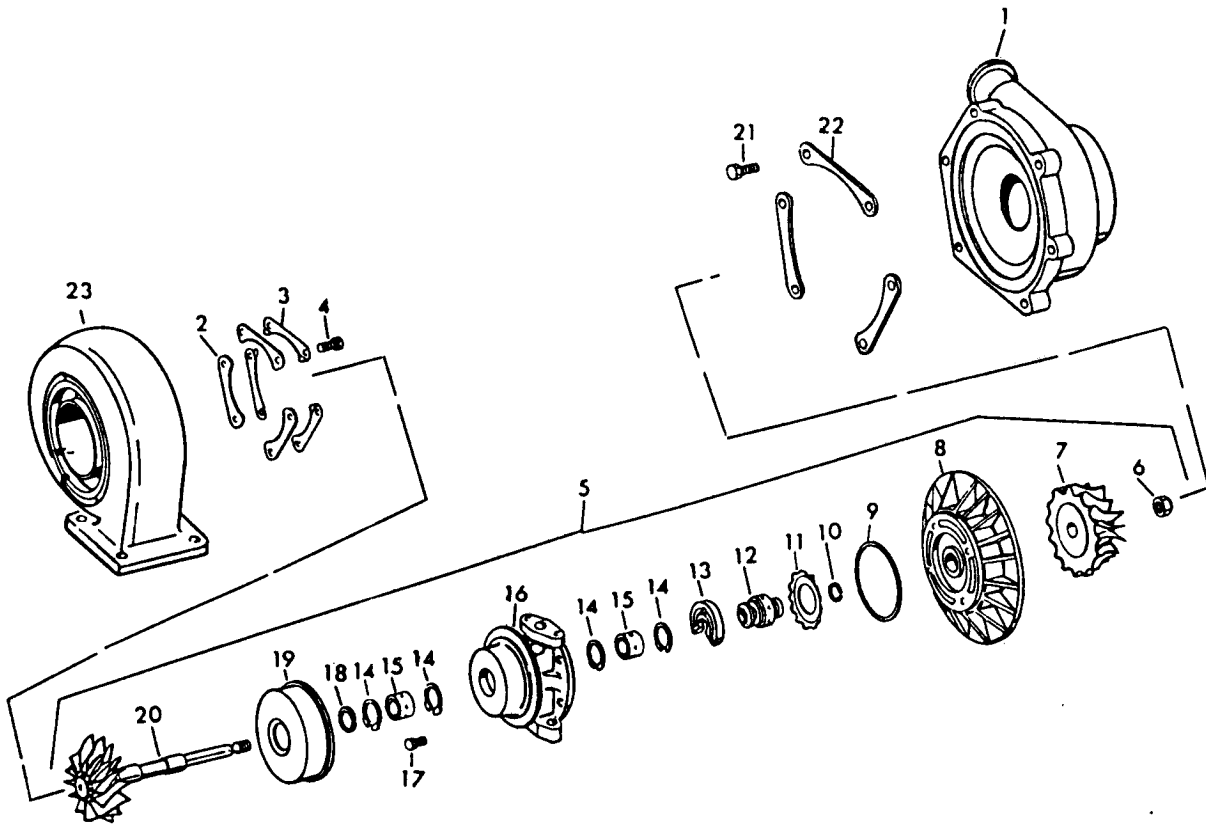
Ref No	Part Number	Description	Quantity
TURBOCHARGER - Continued			
(DT-466 for H-80B, 2769 and up)			
(DT-466 for 433 and 444, 2701 and up)			
(DT-466 for Galion LQ-158)			
20	702 625 C2	WHEEL and SHAFT, turbine-----	1
21	1809 618 C1	BOLT, (compressor housing) self-locking hex-hd----- (Replaces Std. Bolt and Lock Plate, 630 609 C1; when replacing Lock Plate all three Lock Plates must be replaced w/six BOLT,1809 618 C1)	6
22	630 610 C1	CLAMP, turbo compressor housing plate-----	3
23	630 611 C1	HOUSING, turbine-----	1
	684 244 C91	CORE ASSEMBLY (Remanufactured)----- (Individual component parts making up remanu- factured core assemblies are not serviceable by themselves)	AR

TURBOCHARGER

TURBOCHARGER

(DT-414 for H-65C, 33088 and up)
(DT-414 for 530, 501 and up)
(DT-414 for E-200, 31881 and up)
(DT-466 for 412, 3122 and up)
(DT-466 for TD-15C, 3104 and up)
(DT-466 for 175C, 3183 and up)
(DT-414B for 530)

(DT-466B for TD-15C, 175C and TD-12)
(DT-466 for Galion LQ-161A)
(DT-466B for Galion LQ-161B, LQ-166A
and LQ-166B)
(DT-466C for 530, TD-15C, 175C)
(DT-466C for Galion A600 and A606)
(DTI-466C for 540)



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TURBOCHARGER

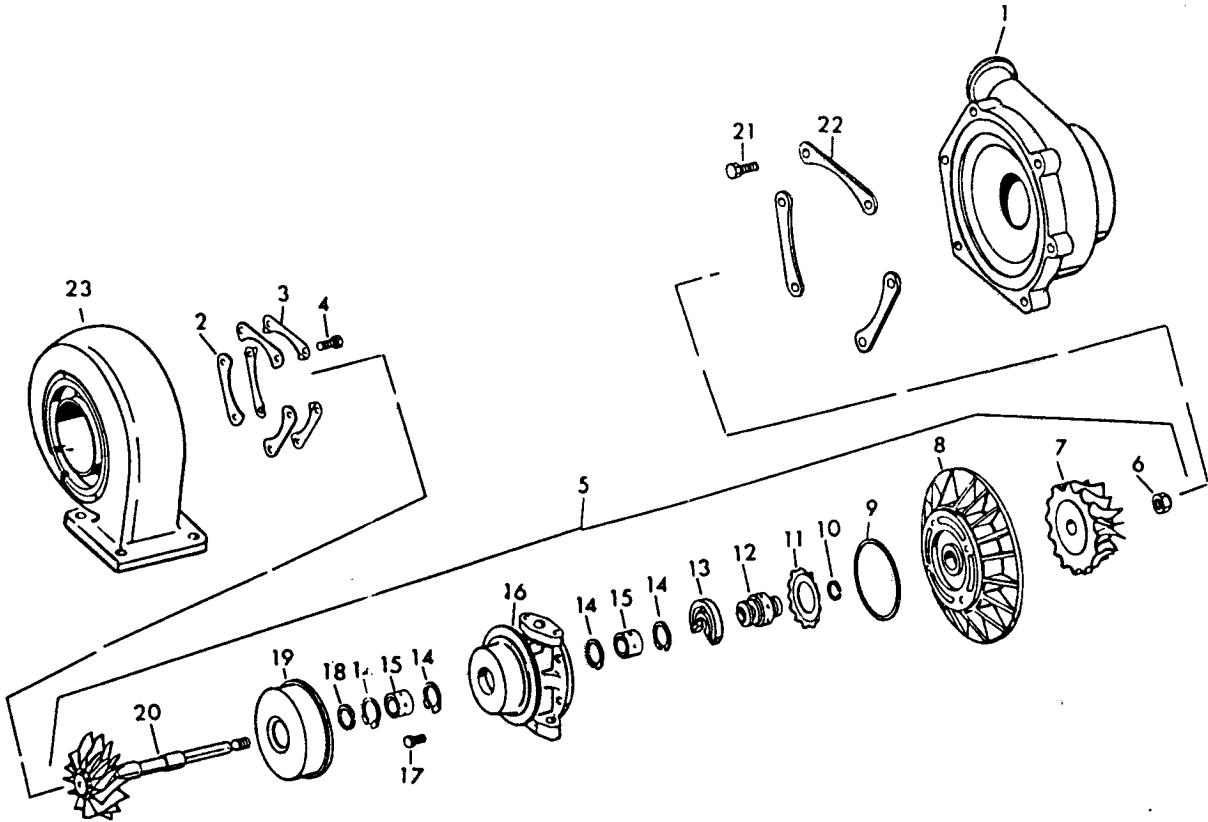
Ref No	Part Number	Description	Quantity
TURBOCHARGER			
	(DT-414 for H-65C, 33088 and up)	(DT-466B for TD-15C, 175C and TD-12)	
	(DT-414 for 530, 501 and up)	(DT-466 for Galion LQ-161A)	
	(DT-414 for E-200, 31881 and up)	(DT-466B for Galion LQ-161B, LQ-166A and LQ-166B)	
	(DT-466 for 412, 3122 and up)	(DT-466C for 530, TD-15C, 175C)	
	(DT-466 for TD-15C, 3104 and up)	(DT-466C for Galion A600 and A606)	
	(DT-466 for 175C, 3183 and up)	(DTI-466C for 540)	
	(DT-414B for 530)		
	684 240 C92	TURBOCHARGER ASSY (T04B18)----- (Same as 684 237 C92 and 684 239 C92) Consists of the following parts:	1
1	684 248 C1	HOUSING, turbo compressor-----	1
2	684 245 C1	CLAMP, turbo turbine housing-----	3
3	615 739 C1	PLATE, housing lock-----	3
4	684 246 C1	BOLT, hex-hd-----	6
5	1806 150 C91	CORE ASSY, housing-----	1
6	615 741 C2	NUT, impeller lock-----	1
7	684 247 C1	WHEEL, impeller-----	1
8	630 614 C91	PLATE w/SPRING, 615 747 C1, back-----	1
9	343 847 R1	RING, center housing seal-----	1
10	615 746 C1	RING, turbo compressor housing piston-----	1
11	615 747 C1	SPRING, back plate collar-----	1
12	615 745 C2	COLLAR, thrust-----	1
13	627 773 C1	BEARING, thrust-----	1
14	627 774 C1	RING, bearing retainer-----	4
15	687 965 C1	BEARING, housing-----	2
16	684 360 C92	PACKAGE, housing center----- (Consists of HOUSING and RING, 684 359 C2)	1

TURBOCHARGER

TURBOCHARGER - Continued

(DT-414 for H-65C, 33088 and up)
(DT-414 for 530, 501 and up)
(DT-414 for E-200, 31881 and up)
(DT-466 for 412, 3122 and up)
(DT-466 for TD-15C, 3104 and up)
(DT-466 for 175C, 3183 and up)
(DT-414B for 530)

(DT-466B for TD-15C, 175C and TD-12)
(DT-466 for Galion LQ-161A)
(DT-466B for Galion LQ-161B, LQ-166A
and LQ-166B)
(DT-466C for 530, TD-15C, 175C)
(DT-466C for Galion A600 and A606)
(DTI-466C for 540)



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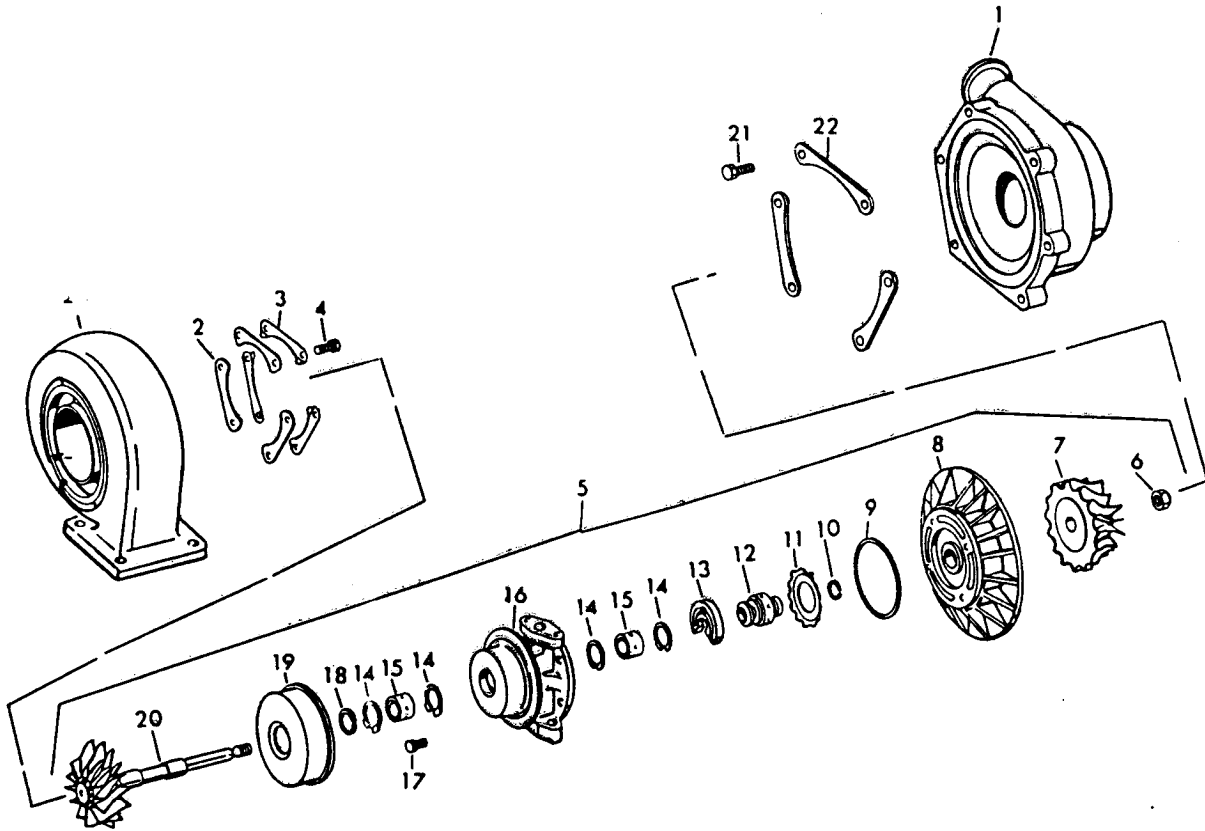
TURBOCHARGER

Ref No	Part Number	Description	Quantity
TURBOCHARGER - Continued			
	(DT-414 for H-65C, 33088 and up)	(DT-466B for TD-15C, 175C and TD-12)	
	(DT-414 for 530, 501 and up)	(DT-466 for Galion LQ-161A)	
	(DT-414 for E-200, 31881 and up)	(DT-466B for Galion LQ-161B, LQ-166A and LQ-166B)	
	(DT-466 for 412, 3122 and up)	(DT-466C for 530, TD-15C, 175C)	
	(DT-466 for TD-15C, 3104 and up)	(DT-466C for Galion A600 and A606)	
	(DT-466 for 175C, 3183 and up)	(DTI-466C for 540)	
	(DT-414B for 530)		
17	1809 617 C1	BOLT, back plate (center housing) self-locking hex-hd (Replaces Std. Bolt and Lock Plate, 625 675 C1; when replacing Lock Plate both Lock Plates must be replaced w/four BOLT, 1809 617 C1)	4
18	684 359 C2	RING, turbo turbine housing piston-----	1
19	627 771 C1	SHROUD, turbine wheel-----	1
20	1806 082 C1	WHEEL and SHAFT, turbine-----	1
21	1809 618 C1	BOLT, (compressor housing) self-locking hex-hd----- (Replaces Std. Bolt and Lock Plate, 630 609 C1; when replacing Lock Plate all three Lock Plates must be replaced w/six BOLT,1809 618 C1)	6
22	630 610 C1	CLAMP, turbo compressor housing plate-----	3
23	630 675 C1	HOUSING, turbine-----	1
	735 271 C91	CORE ASSEMBLY (Remanufactured)----- (Individual component parts making up remanu- factured core assemblies are not serviceable by themselves)	AR

TURBOCHARGER

TURBOCHARGER

(DT-466B for 412, 412B H-80B, 433B, 444B and 540)
(DT-466B for Galion LQ-158A, LQ-168, LQ-170,
A550, A556, A560E and A566E)



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TURBOCHARGER

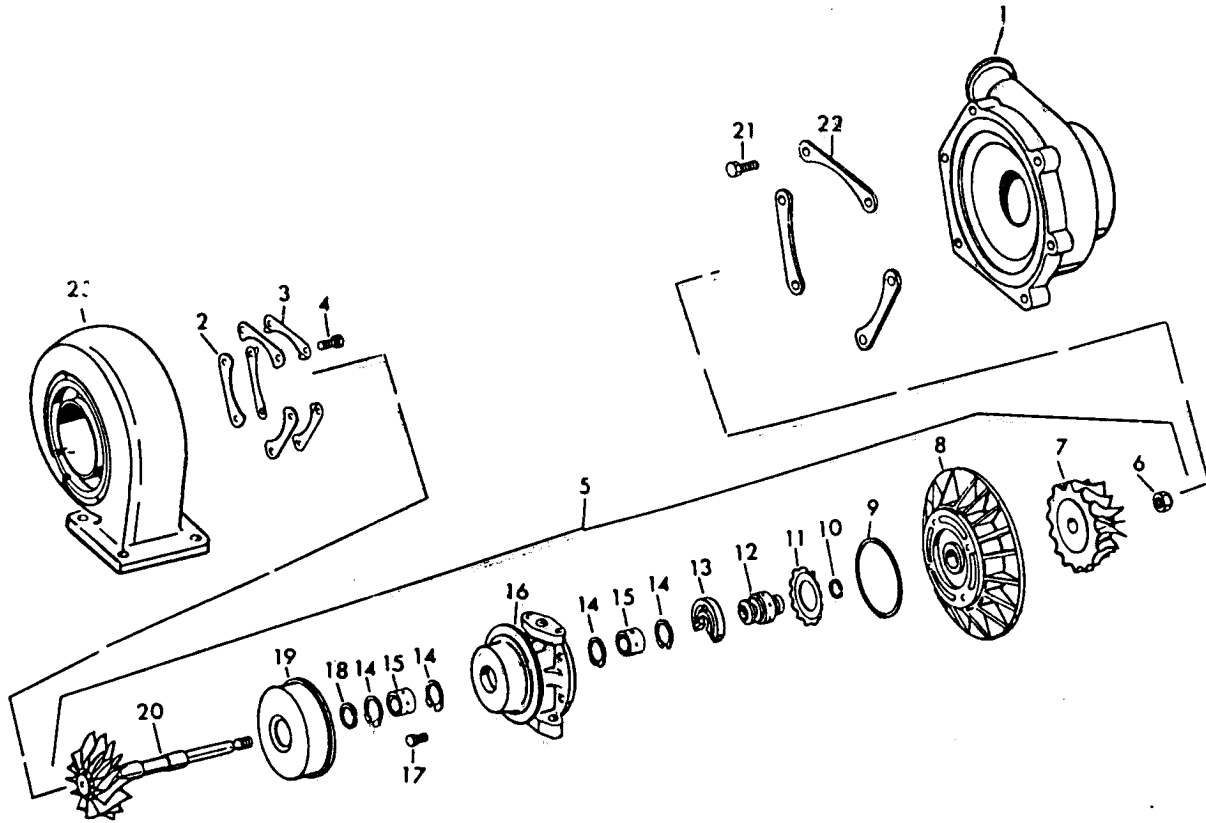
Ref No	Part Number	Description	Quantity
TURBOCHARGER			
(DT-466B for 412, 412B H-80B, 433B, 444B and 540)			
(DT-466B for Galion LQ-158A, LQ-168, LQ-170, A550, A556, A560E and A566E)			
	1806 078 C91	TURBOCHARGER ASSY (T04B25)----- Consists of the following parts:	1
1	684 366 C1	HOUSING, turbo compressor-----	1
2	684 245 C1	CLAMP, turbo turbine housing-----	3
3	615 739 C1	PLATE, housing lock-----	3
4	684 246 C1	BOLT, hex-hd-----	6
5	1806 152 C91	CORE ASSY, housing-----	1
6	615 741 C2	NUT, impeller lock-----	1
7	684 364 C1	WHEEL, impeller-----	1
8	630 614 C91	PLATE w/SPRING, 615 747 C1, back-----	1
9	343 847 R1	RING, center housing seal-----	1
10	615 746 C1	RING, turbo compressor housing piston-----	1
11	615 747 C1	SPRING, back plate collar-----	1
12	615 745 C2	COLLAR, thrust-----	1
13	627 773 C1	BEARING, thrust-----	1
14	627 774 C1	RING, bearing retainer-----	4
15	687 965 C1	BEARING, housing-----	2
16	684 360 C92	PACKAGE, housing center----- (Consists of HOUSING and RING, 684 359 C2)	1
17	1809 617 C1	BOLT, back plate (center housing) self-locking hex-hd (Replaces Std. Bolt and Lock Plate, 625 675 C1; when replacing Lock Plate both Lock Plates must be replaced w/four BOLT, 1809 617 C1)	4
18	684 359 C2	RING, turbo turbine housing piston-----	1
19	627 771 C1	SHROUD, turbine wheel-----	1

TURBOCHARGER

TURBOCHARGER - Continued

(DT-466B for 412, 412B H-80B, 433B, 444B and 540)

(DT-466B for Galion LQ-153A, LQ-168, LQ-170,
A550, A556, A560E and A566E)



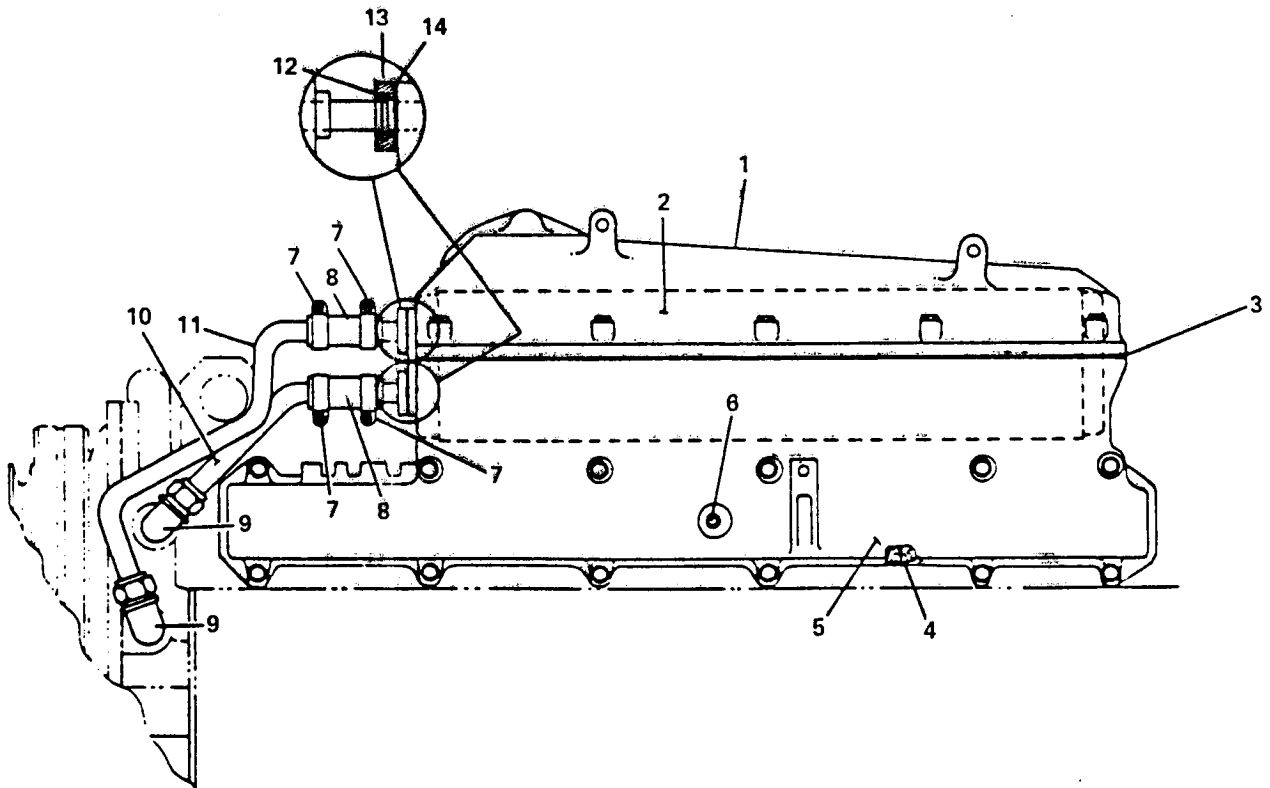
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TURBOCHARGER

Ref No	Part Number	Description	Quantity
TURBOCHARGER - Continued			
(DT-466B for 412, 412B H-80B, 433B, 444B and 540)			
(DT-466B for Galion LQ-158A, LQ-168, LQ-170, A550, A556, A560E and A566E)			
20	1806 082 C1	WHEEL and SHAFT, turbine-----	1
21	1809 618 C1	BOLT, (compressor housing) self-locking hex-hd----- (Replaces Std. Bolt and Lock Plate, 630 609 C1; when replacing Lock Plate all three Lock Plates must be replaced w/six BOLT,1809 618 C1)	6
22	630 610 C1	CLAMP, turbo compressor housing plate-----	3
23	630 675 C1	HOUSING, turbine-----	1
	735 272 C91	CORE ASSEMBLY (Remanufactured)----- (Individual component parts making up remanu- factured core assemblies are not serviceable by themselves)	AR

TURBOCHARGER

INTERCOOLER AND CONNECTIONS (DTI-466C FOR 540)



CG-10333

TURBOCHARGER

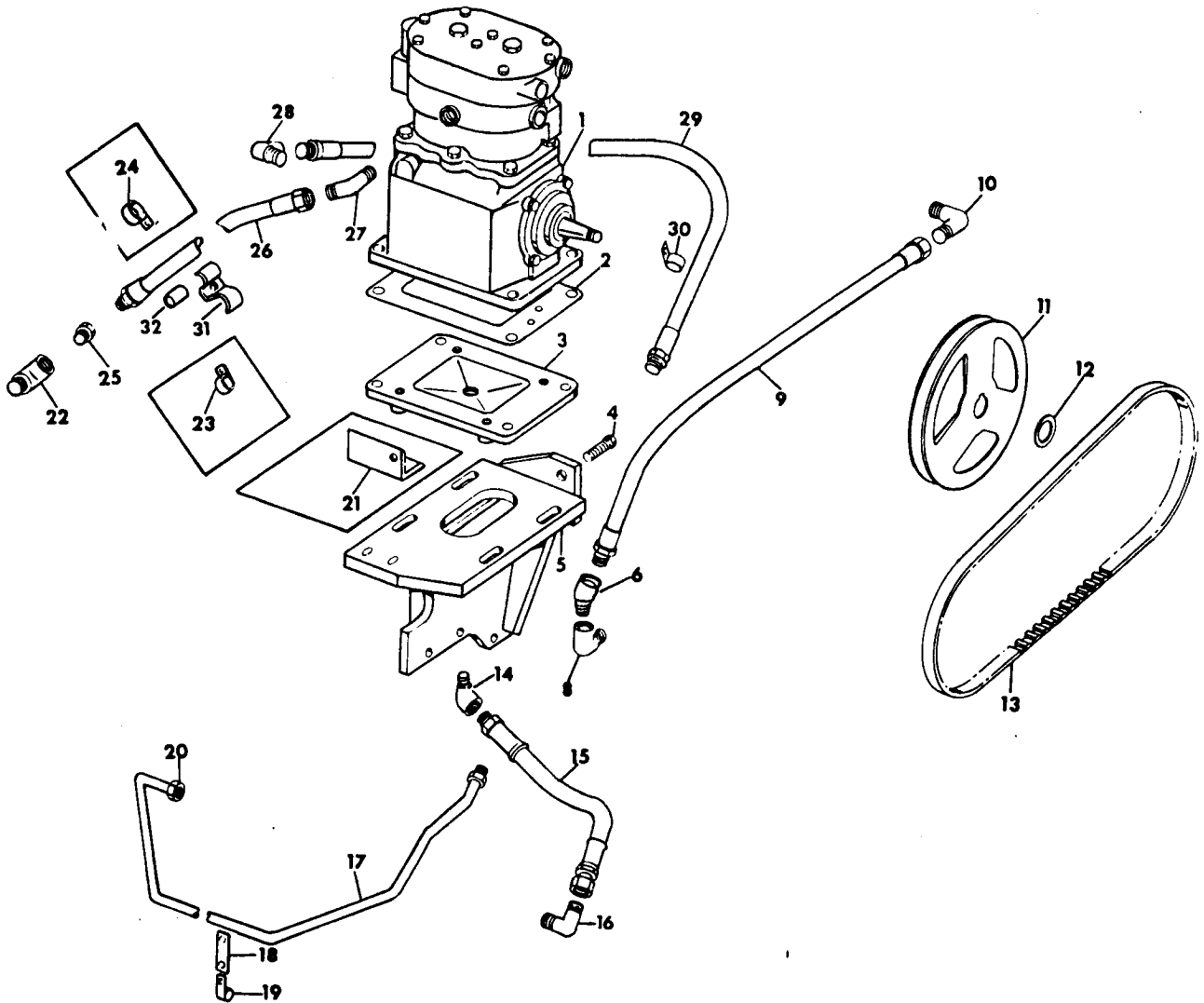
Ref No	Part Number	Description	Quantity
INTERCOOLER AND CONNECTIONS (DTI-466C FOR 540)			
1	686 157 C3	COVER, intercooler-----	1
	25 750 R1	BOLT, 5/16" x 1-3/4"-----	10
	25 533 R1	WASHER, 5/16" plain-----	10
2	686 210 C91	INTERCOOLER-----	1
	25 493 R1	BOLT, 5/16" x 1"-----	8
	684 496 C1	WASHER, hardened-----	8
3	686 142 C1	GASKET, intercooler cover-----	1
4	682 199 C1	GASKET, intake manifold-----	1
5	1802 179 C1	HOUSING, intercooler-----	1
	28 565 R1	BOLT, 5/16" x 3-3/4"-----	5
	26 680 R1	BOLT, 5/16" x 1-1/2", prevailing torque-----	5
	25 533 R1	WASHER, 5/16" plain-----	10
6	20 988 R1	PLUG, 1/4" NPT-----	1
7	27 702 R1	CLAMP, hose-----	4
8	279 165 R1	HOSE, 5/8" x 2-3/8", intercooler tube-----	2
9	872 442 R1	ELBOW, intercooler tube-----	2
10	691 863 C91	TUBE w/NUT and SLEEVE, intercooler outlet-----	1
11	691 859 C91	TUBE w/NUT and SLEEVE, intercooler inlet-----	1
12	350 429 R1	RING, sealing-----	2
13	686 146 C1	FLANGE, intercooler water-----	2
	25 493 R1	BOLT, 5/16" x 1"-----	4
	25 533 R1	WASHER, 5/16" plain-----	4
14	686 145 C1	GASKET, intercooler flange-----	2
	687 069 C91	PACKAGE, intercooler gasket-----	1
		Consists of:	
	686 142 C1	GASKET, cover-----	1
	686 181 C1	GASKET, elbow-----	1
	686 145 C1	GASKET, flange-----	2
	682 199 C1	GASKET, manifold-----	1
	350 429 R1	RING, sealing-----	2

TURBOCHARGER

MEMORANDA

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS (DT-414 for H-65C - 501 and up) (DT-466 for H-80B - 10997 and below)



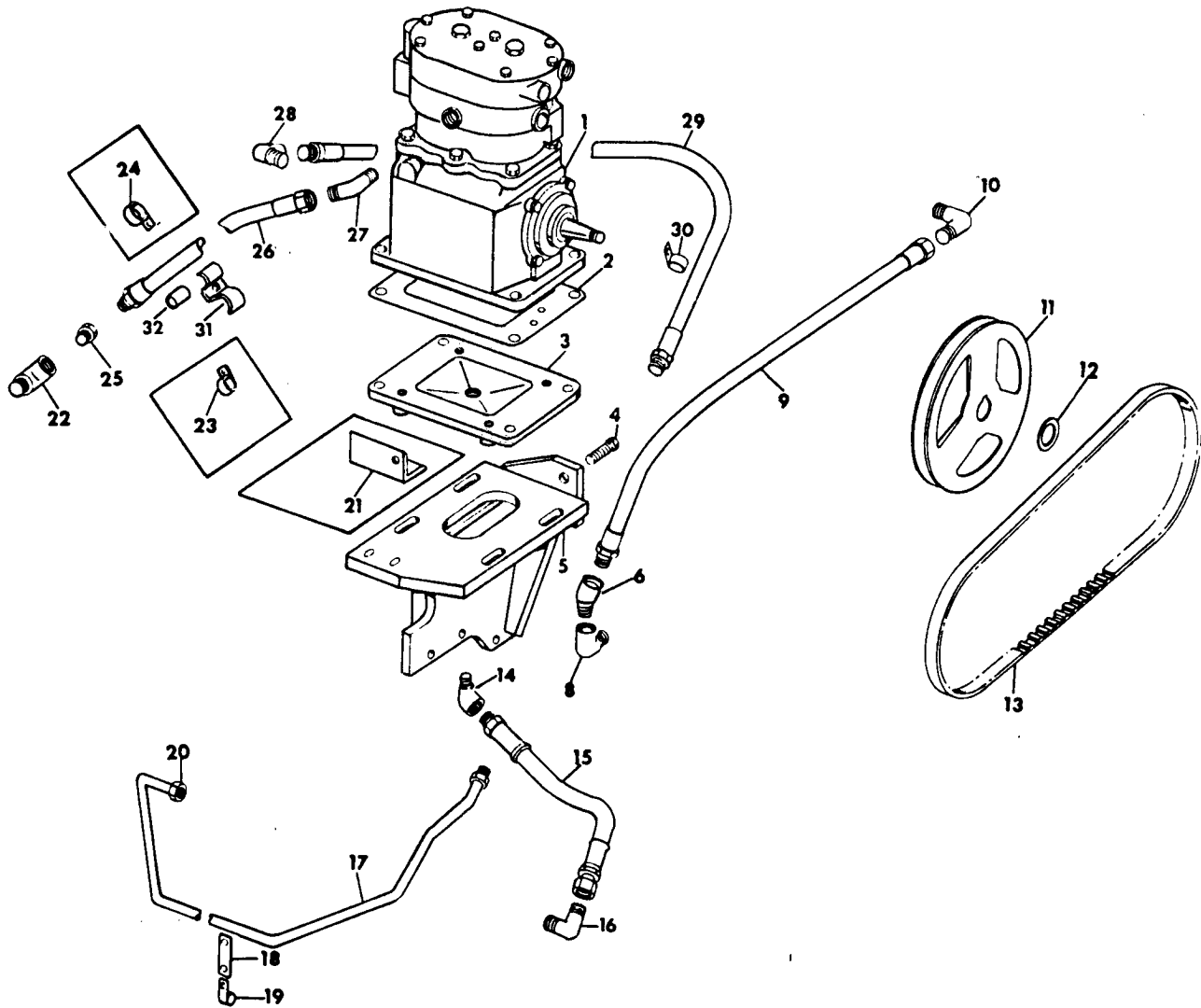
CG-6838

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS			
(DT-414 for H-65C - 501 and up)			
(DT-466 for H-80B - 10997 and below)			
1	217 875 R92	COMPRESSOR, air (Refer to "Air Compressor")-----	1
	24 851 R1	BOLT-----	4
	115 314	WASHER, hardened-----	4
	25 524 R1	NUT, 7/16" lock-----	4
	444 660	PLUG, 3/8" NPT water hole-----	3
	444 654	PLUG, 1/4" pipe (Front governor port)-----	2
2	60 863 DA	GASKET, air compressor-----	1
3	683 536 C92	BASE w/STUD, 783 538 C1, air compressor-----	1
	115 093	WASHER, 3/8" lock-----	4
	25 522 R1	NUT, 3/8"-----	4
	683 538 C1	STUD-----	4
	25 544 R1	WASHER, .406 x .812 x .134"-----	4
4	674 190 C1	BOLT, adjusting----- H-65C - 52467 and below H-80B - 6123 and below	1
4	683 449 C1	BOLT, adjusting----- H-65C - 52468 and up H-80B - 6124 and up	1
5	673 023 C1	PLATE, air compressor mounting----- H-65C - 52467 and below H-80B - 6123 and below	1
5	683 452 C3	PLATE, air compressor mounting----- H-65C - 52468 and up H-80B - 6124 and up	1
	103 321	WASHER, lock-----	5
	21 070 R1	NUT-----	5
6	864 446 C1	ELBOW, 3/8" x 45°-----	1
8	444 042	ELBOW, 3/8" x 90°-----	2
9	674 409 C1	HOSE, water outlet-----	1
10	864 455 C1	ELBOW, 3/8" NPT x 90°-----	1
11	673 030 C1	PULLEY, air compressor----- H-65C - 52467 and below H-80B - 6123 and below	1
11	683 456 C1	PULLEY, air compressor----- H-65C - 52468 and up H-80B - 6124 and up	1

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS - Continued (DT-414 for H-65C - 501 and up) (DT-466 for H-80B - 10997 and below)



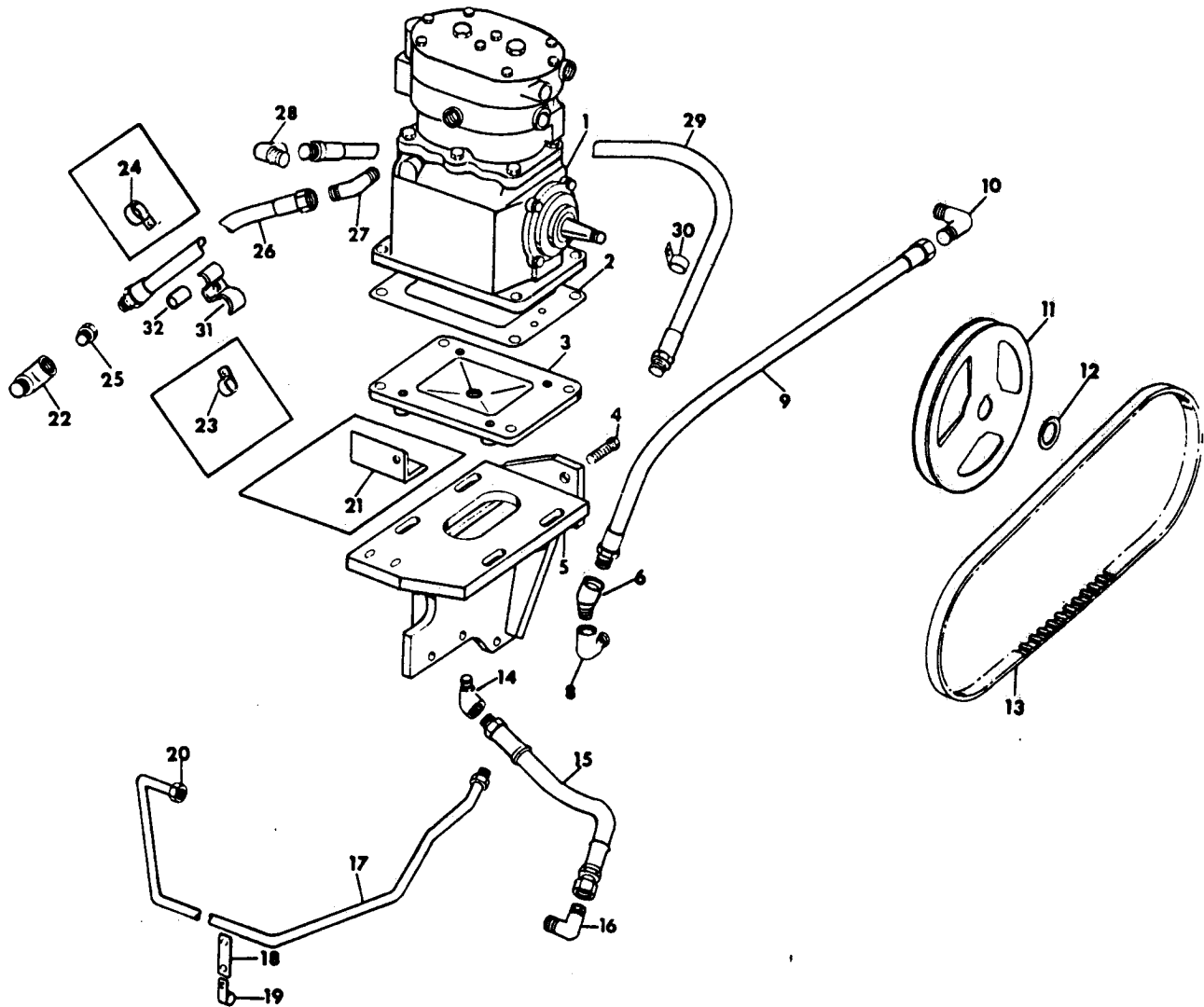
CG-6838

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued			
(DT-414 for H-65C - 501 and up)			
(DT-466 for H-80B - 10997 and below)			
12	551 658 R1	WASHER, pulley-----	1
	103 386	PIN, cotter-----	1
13	673 029 C1	BELT, air compressor-----	1
		H-65C - 52467 and below	
		H-80B - 6123 and below	
13	683 457 C1	BELT, air compressor-----	1
		H-65C - 52468 and up	
		H-80B - 6124 and up	
14	444 056	ELBOW, 3/8" x 45°-----	1
15	343 713 R91	HOSE, oil drain-----	1
		H-65C - 52467 and below	
		H-80B - 6123 and below	
15	683 455 C1	HOSE, oil drain-----	1
		H-65C - 52468 and up	
		H-80B - 6124 and up	
	122 316 R91	CLAMP-----	2
16	118 757	ELBOW, 90°-----	1
17	674 680 C91	TUBE, oil supply w/NUT, 915 499 R1 and SLEEVE, 915 500 R1-----	1
18	206 413 H1	PLATE-----	1
	26 309 R1	BOLT-----	1
	25 544 R1	WASHER-----	1
19	299 400 C1	CLAMP-----	1
	25 544 R1	WASHER, .406 x .812 x .134"-----	1
	25 522 R1	NUT-----	1
20	915 499 R1	NUT, oil supply tube-----	1
	915 500 R1	SLEEVE-----	1
21	673 028 C1	BRACE, air compressor mounting-----	1
		H-65C - 52467 and below	
		H-80B - 6123 and below	
22	444 151	TEE-----	1

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS - Continued
(DT-414 for H-65C - 501 and up)
(DT-466 for H-80B - 10997 and below)



CG-6838

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued			
(DT-414 for H-65C - 501 and up)			
(DT-466 for H-80B - 10997 and below)			
23	301 272 C1	CLAMP, hose 3/4"----- H-65C - 41849 and below H-80B - 4566 and below	1
	114 353	SCREW-----	1
	103 319	WASHER-----	1
	23 232 R1	NUT-----	1
24	299 403 C1	CLAMP, tube 3/8"----- H-65C - 41849 and below H-80B - 4566 and below	1
25	444 660	PLUG, 3/8" NPT water hole-----	1
26	674 409 C1	HOSE, water inlet----- H-65C - 41849 and below H-80B - 4566 and below	1
26	674 410 C1	HOSE, water inlet----- H-65C - 41850 and up H-80B - 4567 and up	1
27	118 757	ELBOW, 3/8" NPT x 90°-----	2
28	454 102	ELBOW, 1/8" NPT x 90°-----	1
29	681 940 C1	HOSE, oil inlet-----	1
	26 241 H	SPACER, oil inlet hose-----	1
30	308 575 R1	CLAMP-----	1
	25 543 R1	WASHER-----	1
	454 862	SCREW-----	1
31	279 830 C1	CLAMP, hose----- H-65C - 41850 and up H-80B - 4567 and up	4
	262 038 R1	NUT, speed-----	2
	113 957	SCREW-----	2
32	673 171 C1	CUSHION, fuel pipe----- H-65C - 41850 and up H-80B - 4567 and up	2
	22 435 R1	SCREW, 3/8 x 3" (*)-----	3
	21 070 R1	NUT, 3/8" lock (*)-----	3
	103 321	WASHER, 3/8" lock (*)-----	3
	23 164 R1	BOLT, 3/8" x 1-1/4"-----	1
	103 341	WASHER, 3/8" plain-----	1

(*) - Air Compressor Base Mounting

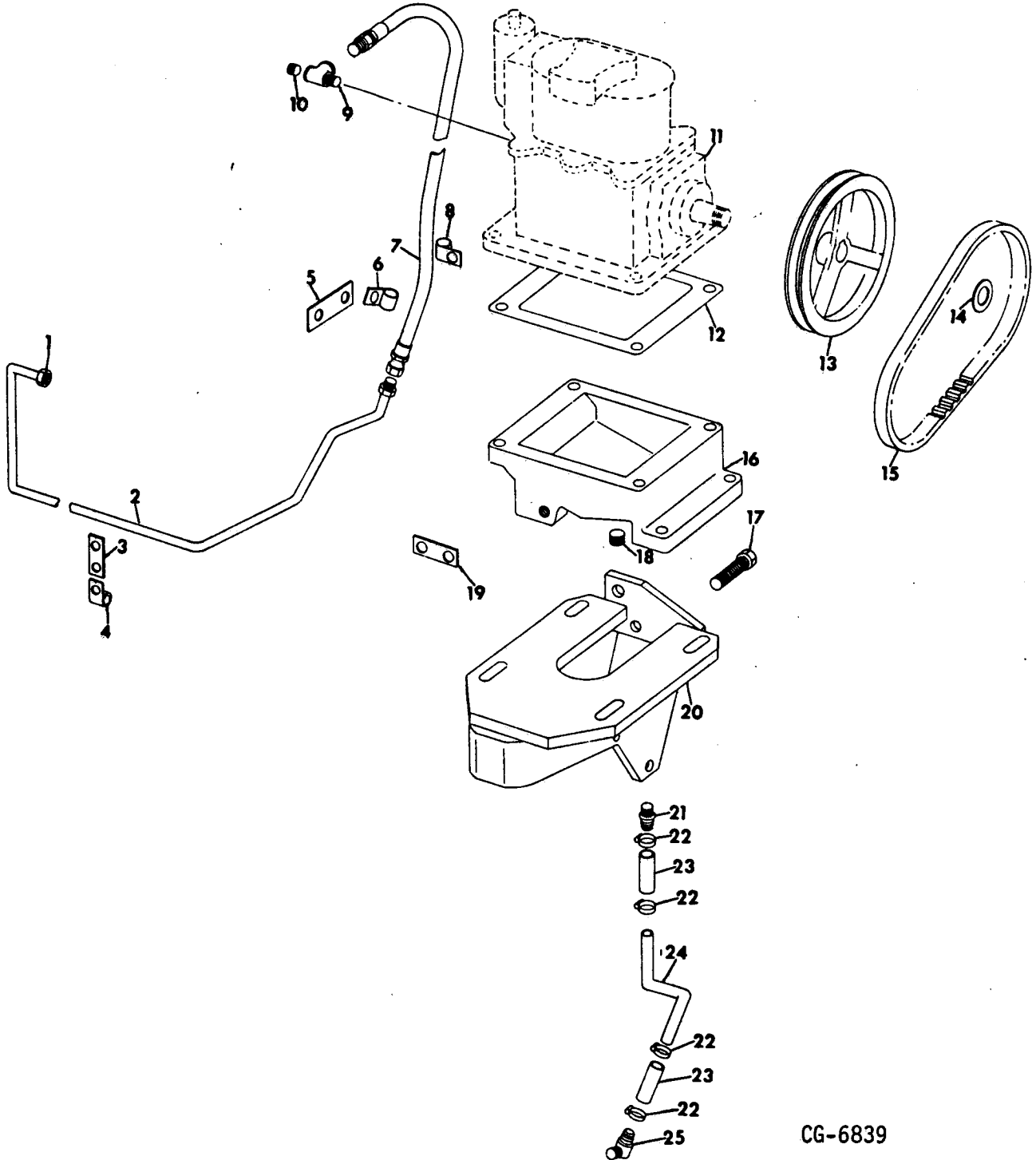
ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS

(DT-414 for E-200)

(DT-466 for 412)

(DT-466B for 412)



CG-6839

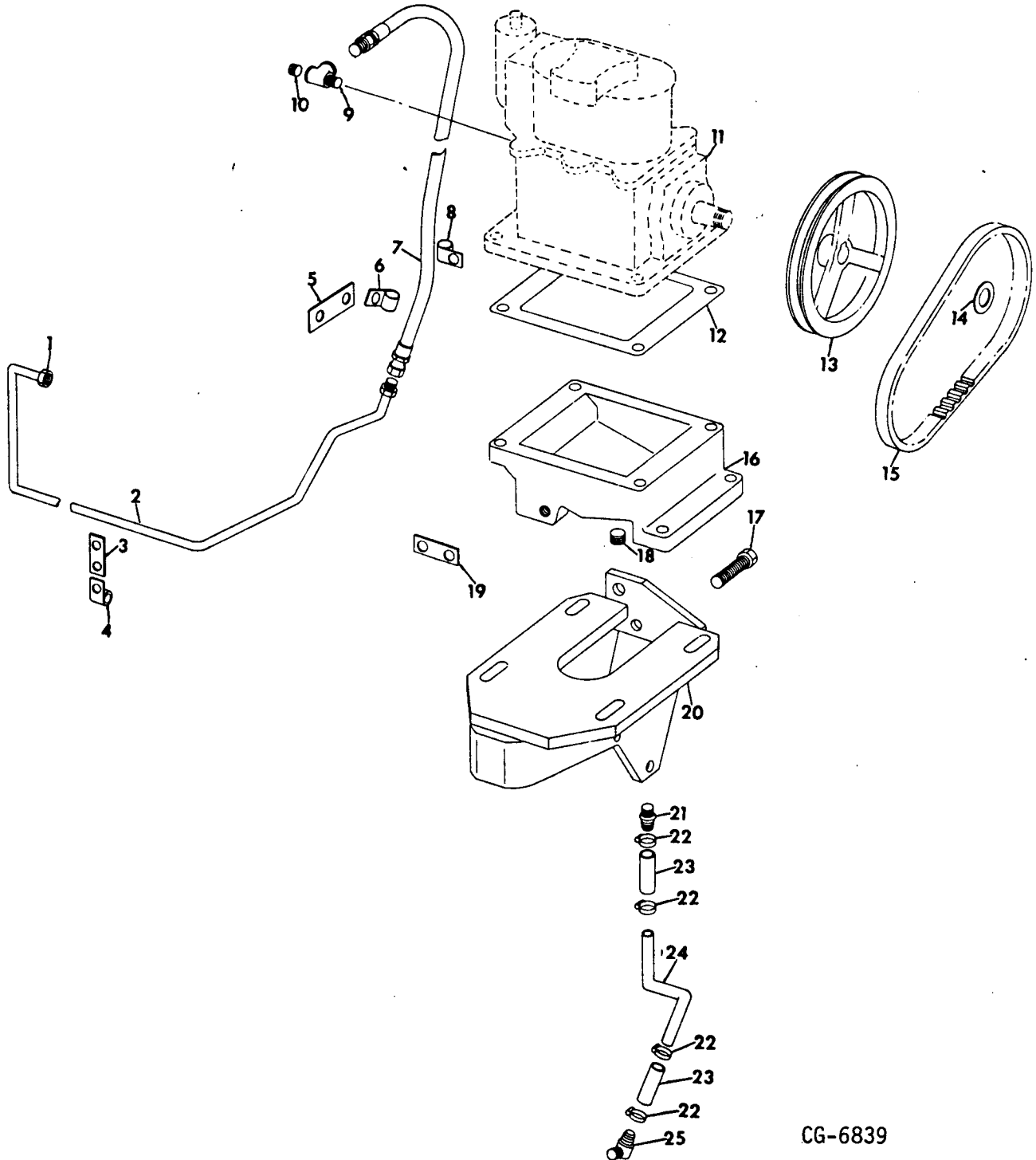
ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS			
(DT-414 for E-200)			
(DT-466 for 412)			
(DT-466B for 412)			
1	915 499 R1	NUT-----	1
	915 500 R1	SLEEVE-----	1
2	674 680 C91	TUBE, air compressor oil supply, w/NUT, 915 499 R1 and SLEEVE, 915 500 R1-----	1
3	206 413 H1	PLATE-----	1
4	299 400 C1	CLAMP-----	1
	24 840 R1	SCREW, hex-hd cap-----	1
	25 896 R1	WASHER, hardened-----	2
	25 522 R1	NUT, 3/8"-----	1
5	206 413 H1	PLATE (on crankcase)-----	1
	26 309 R1	SCREW, hex-hd cap-----	1
	25 896 R1	WASHER, 13/32" plain-----	1
6	308 575 R1	CLAMP-----	2
7	681 941 C1	HOSE, air compressor oil inlet-----	1
	670 458 C1	CLAMP, hose-----	1
8	308 575 R1	CLAMP-----	2
	24 840 R1	SCREW, hex-hd cap-----	2
	25 896 R1	WASHER, hardened-----	4
	25 522 R1	NUT, 3/8"-----	2
9	444 253	TEE, 1/8" NPT-----	1
10	444 687	PLUG, hex-socket-----	1
11	673 801 C92	COMPRESSOR, air (Refer to "Air Compressor")-----	1
12	689 089 C1	GASKET, air compressor-----	1
13	673 088 C1	PULLEY, air compressor-----	1
14	551 658 R1	WASHER, pulley-----	1
	103 386	PIN, cotter-----	1
15	673 089 C1	BELT, air compressor-----	1

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS - Continued

(DT-414 for E-200)
(DT-466 for 412)
(DT-466B for 412)



CG-6839

ACCESSORIES

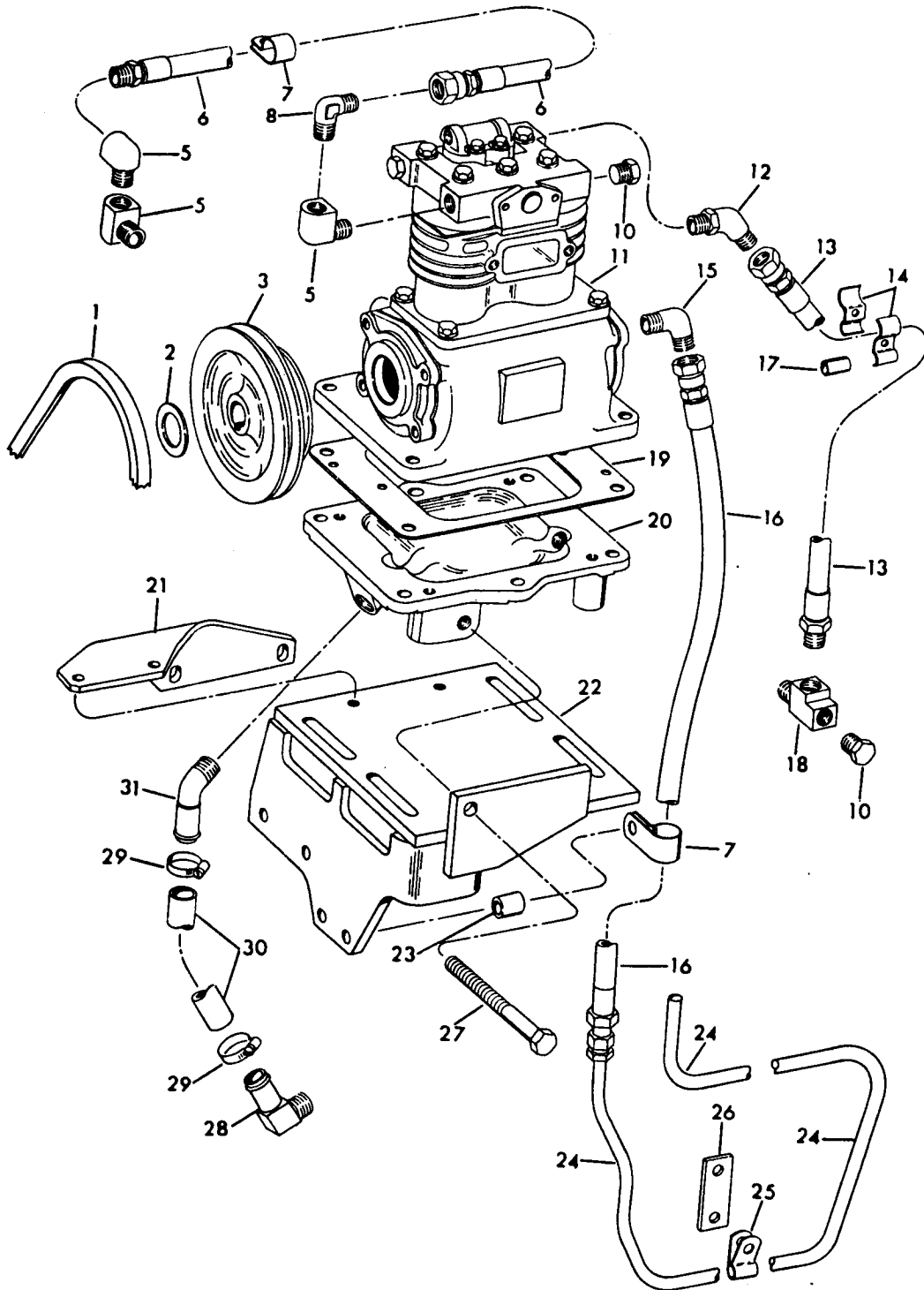
Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued			
(DT-414 for E-200)			
(DT-466 for 412)			
(DT-466B for 412)			
16	612 285 C21	BASE, air compressor-----	1
	101 896 R1	SCREW, hex-hd cap-----	4
	25 896 R1	WASHER, 3/8" hardened-----	8
	25 523 R1	NUT-----	4
17	674 190 C1	BOLT, adjusting-----	1
	26 272 R1	WASHER, plain-----	1
18	444 660	PLUG, 3/8" NPT-----	1
19	206 413 H1	PLATE (on air compressor bracket)-----	2
	26 309 R1	SCREW, hex-hd cap-----	1
	25 896 R1	WASHER, hardened-----	1
20	673 084 C1	PLATE, air compressor mounting-----	1
	24 844 R1	SCREW, hex-hd cap-----	3
	25 896 R1	WASHER, 3/8" hardened-----	5
	25 522 R1	NUT-----	2
21	864 437 R1	CONNECTOR, hose-----	1
22	274 085 R91	CLAMP, hose-----	4
23	674 296 C1	HOSE, oil drain-----	2
24	674 406 C1	TUBE, air compressor oil drain-----	1
25	864 455 R1	ELBOW-----	1

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS

(DT-414 for 530 - 501 and up)
(DT-414B for 530)

(DT-466 for H-80B - 10998 and up)
(DT-466B for H-80B, 412B and 540)



CG-5676

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS			
	(DT-414 for 530 - 501 and up)	(DT-466 for H-80B - 10998 and up)	
	(DT-414B for 530)	(DT-466B for H-80B, 412B and 540)	
1	683 457 C1	BELT, air compressor-----	1
2	551 658 R1	WASHER, pulley-----	1
	103 386	PIN, cotter -----	1
3	683 456 C1	PULLEY, air compressor-----	1
5	444 042	ELBOW, 90° street-----	2
6	686 654 C1	HOSE, water outlet-----	1
7	308 575 R1	CLAMP, hose-----	2
	120 214	WASHER, lock-----	1
	25 521 R1	NUT-----	1
8	118 757	ELBOW, 90°-----	1
10	444 624	PLUG, 3/8" hex-hd-----	3
11		COMPRESSOR ASSY, air (Refer to "Air Compressor")	
	25 524 R1	NUT-----	4
	24 851 R1	SCREW, hex-hd cap-----	4
	115 314	WASHER, lock-----	4
	26 272 R1	WASHER, flat-----	8
	444 660	PLUG, 3/8" hex-hd (DT-414B for 530)-----	3
	444 654	PLUG, 1/4" soc-hd (DT-414B for 530)-----	3
	444 612	PLUG, 1/8" hex-hd (H-80B, 412B and 540)-----	1
12		(See Individual Engine Variation)	
13	674 410 C1	HOSE, water inlet-----	1
14	279 830 C1	CLAMP, hose-----	4
15	9409 927	ELBOW, 45° street-----	1
16	681 940 C1	HOSE, air compressor oil inlet-----	1
17	673 171 C1	CUSHION, fuel return pipe-----	2
	262 038 R1	NUT, speed-----	2
	113 957	SCREW, hex-hd cap-----	2
18	444 151	TEE, 3/8" auto. pipe-----	1
19	60 863 DA	GASKET, air compressor-----	1

ACCESSORIES

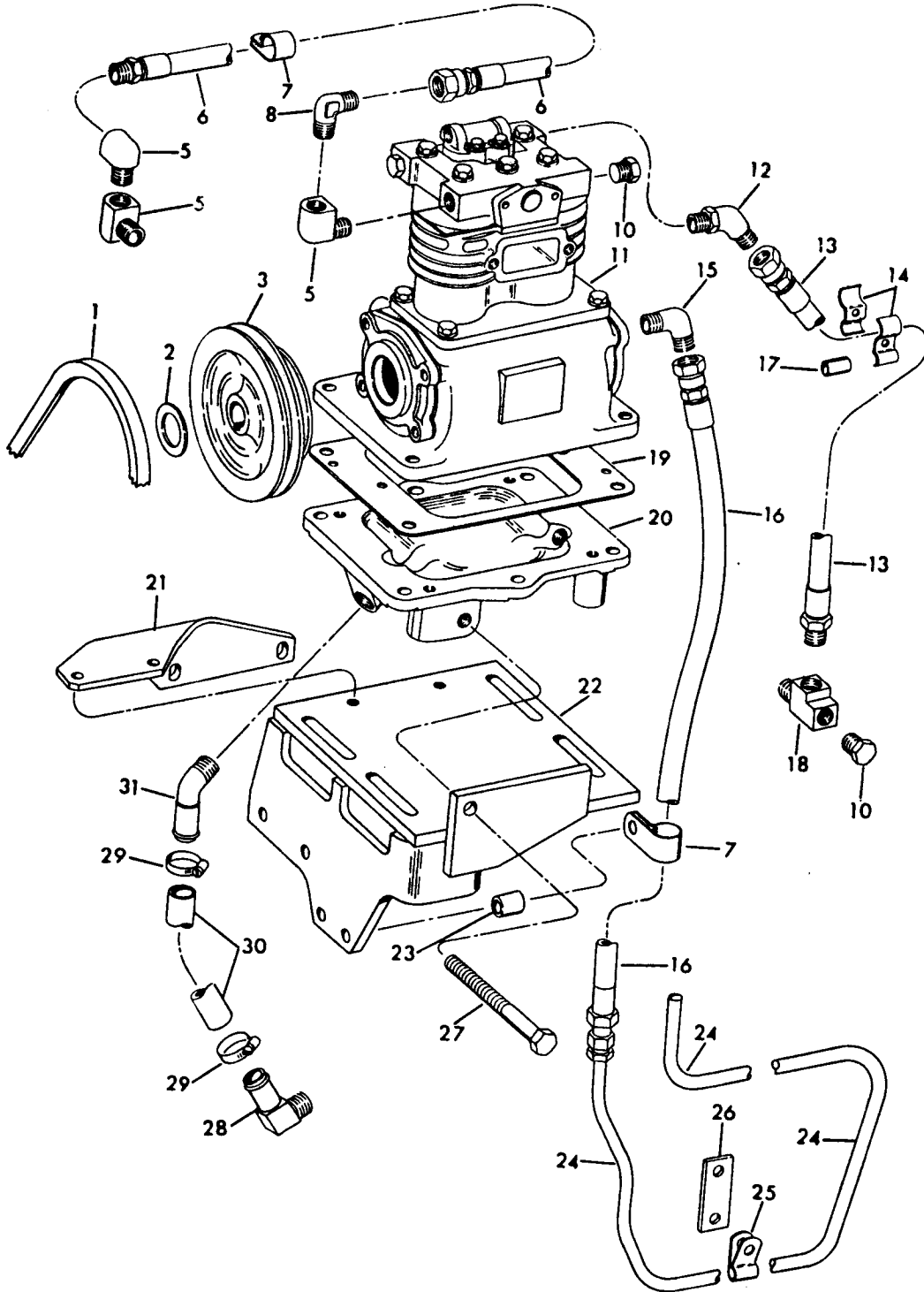
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued

(DT-414 for 530 - 501 and up)

(DT-466 for H-80B - 10998 and up)

(DT-414B for 530)

(DT-466B for H-80B, 412B and 540)



CG-5676

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued			
	(DT-414 for 530 - 501 and up)	(DT-466 for H-80B - 10998 and up)	
	(DT-414B for 530)	(DT-466B for H-80B, 412B and 540)	
20	683 536 C92	BASE, air compressor-----	1
	25 532 R1	NUT-----	4
	115 093	WASHER, lock-----	4
	25 896 R1	WASHER, hardened-----	4
	444 697	PLUG, pipe-----	1
21	685 593 C1	BRACKET, air compressor-----	1
	24 840 R1	SCREW, hex-hd cap-----	4
	115 093	WASHER, hardened-----	4
	25 896 R1	WASHER, 3/8" hardened-----	4
22	683 452 C3	BRACKET, air compressor mounting -----	1
	25 522 R1	NUT-----	3
	25 500 R1	SCREW, 3-1/4" hex-hd cap-----	3
	25 896 R1	WASHER, hardened-----	10
23	26 241 H	SPACER-----	1
	24 842 R1	SCREW, hex-hd cap-----	1
	25 896 R1	WASHER, hardened-----	2
	25 522 R1	NUT-----	1
24		(See Individual Engine Variation)	
25	299 400 C1	CLIP, tube-----	1
	26 310 R1	SCREW, hex-hd cap-----	1
	25 522 R1	NUT-----	1
	25 544 R1	WASHER, 3/8" hardened-----	1
26	206 413 H1	PLATE, clamp support-----	1
	26 309 R1	SCREW, hex-hd cap-----	1
	25 544 R1	WASHER, hardened-----	1
27	683 449 C1	BOLT, adjusting-----	1
	26 272 R1	WASHER, flat-----	1
	115 314	WASHER, lock-----	1
28	864 455 R1	ELBOW, 3/8" NPT x 90°-----	1
29	122 316 R91	CLAMP, hose-----	2
30	683 455 C1	HOSE, oil drain-----	1
31	864 446 R1	ELBOW, 3/8" NPT x 45°-----	1

ACCESSORIES

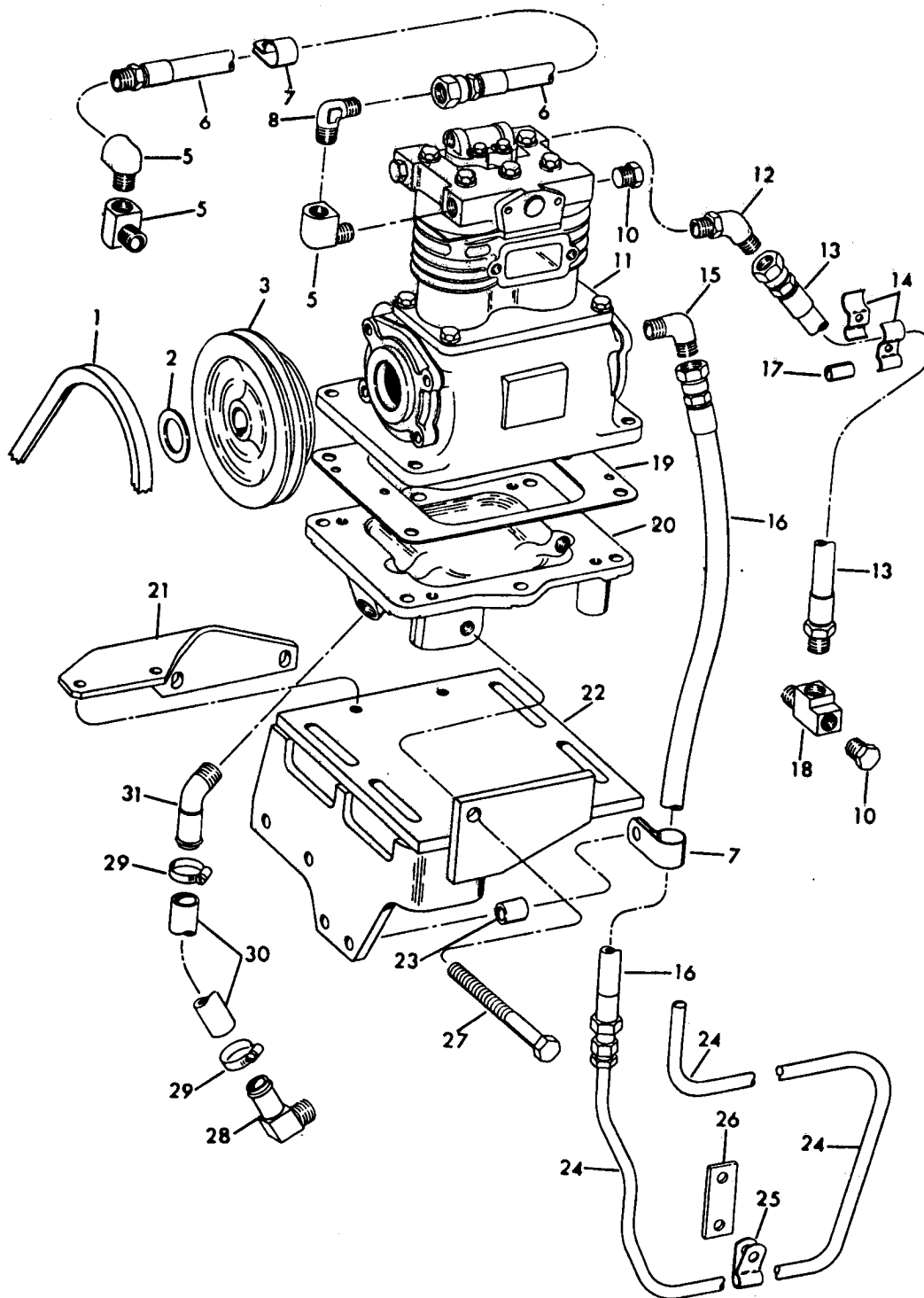
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued

(DT-414 for 530 - 501 and up)

(DT-466 for H-80B - 10998 and up)

(DT-414B for 530)

(DT-466B for H-80B, 412B and 540)



CG-5676

ACCESSORIES

Ref No	Part Number	Description	Quantity
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AIR COMPRESSOR PIPING AND RELATED PARTS - Continued

(DT-414 for 530 - 501 and up) (DT-466 for H-80B - 10998 and up)
(DT-414B for 530) (DT-466B for H-80B, 412B and 540)

ENGINE VARIATIONS

(DT-466B for H-80B, 412B, 540)

12	230 766 R1	ELBOW, 45°-----	1
24	688 335 C91	TUBE w/NUT, 915 499 R1 and SLEEVE, 685 155 C1, air compressor oil inlet-----	1
	915 499 R1	NUT-----	1
	685 158 C1	SLEEVE-----	1

(DT-414 and DT-414B for 530)

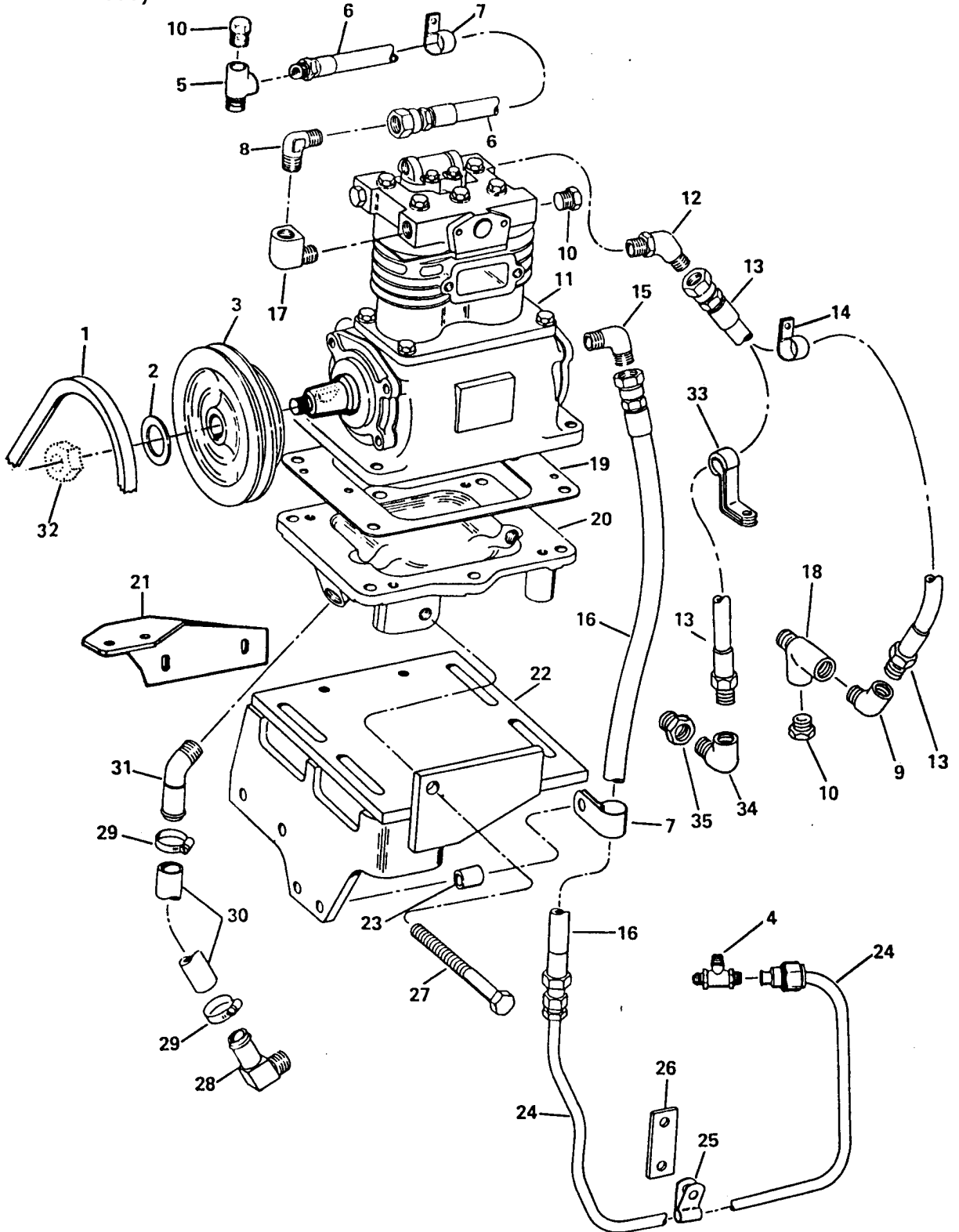
12	118 757 R1	ELBOW, 90°-----	1
24	688 335 C91	TUBE w/NUT, 915 499 R1 and SLEEVE, 685 155 C1, air compressor oil inlet-----	1
	915 499 R1	NUT-----	1
	685 158 C1	SLEEVE-----	1

(DT-466 for H-80B)

12	230 766 R1	ELBOW, 45°-----	1
24	674 680 C91	TUBE w/NUT, 915 499 R1 and SLEEVE, 915 500 R1, air compressor oil inlet-----	1
	915 499 R1	NUT-----	1
	915 500 R1	SLEEVE-----	1

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS (DT-466C for 530) (DTI-466C for 530)



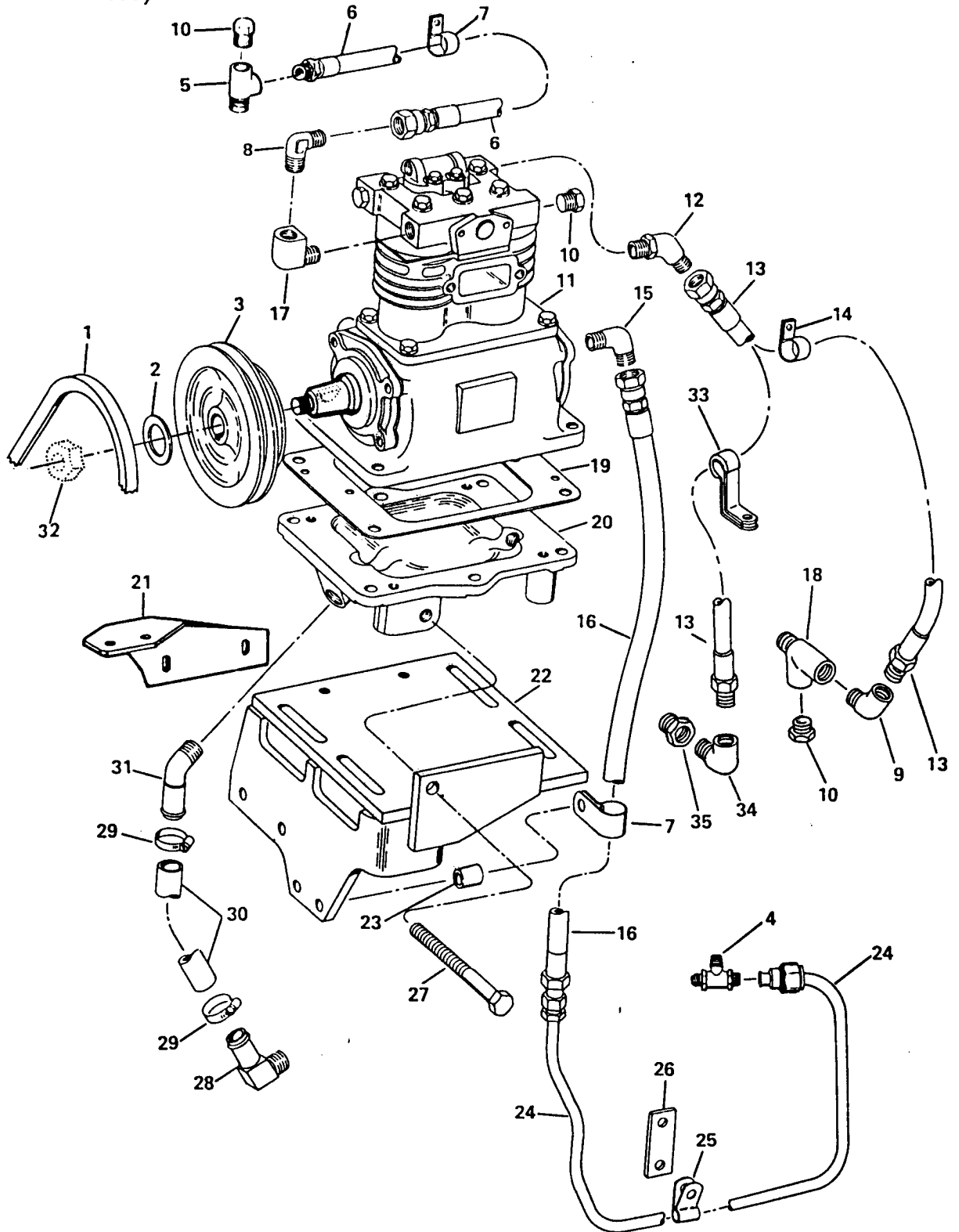
CG-10395

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS			
(DT-466C for 530)			
(DTI-466C for 530)			
1	1808 118 C1	V-BELT, air compressor-----	1
2	551 658 R1	WASHER, pulley-----	1
	103 386	PIN, cotter -----	1
3	683 456 C1	PULLEY, air compressor-----	1
4	610 713 C1	TEE, lube oil (Refer to "Injection Pump Piping")-----	1
5	444 150	TEE, 3/8" auto. pipe-----	1
6	686 654 C1	HOSE w/FITTINGS, water outlet-----	1
7	308 575 R1	CLAMP, hose (on valve cover stud bolt)-----	1
	120 214	WASHER, lock-----	1
	25 521 R1	NUT-----	1
8	118 757	ELBOW, 90°-----	1
9	444 056	ELBOW, 3/8" x 45° street (540)-----	1
10	444 624	PLUG, 3/8" hex-hd (530)-----	2
	444 624	PLUG, 3/8" hex-hd (540)-----	3
11	398 568 C92	COMPRESSOR ASSY, air (Refer to "Air Compressor")	
	25 524 R1	NUT-----	4
	24 851 R1	SCREW, hex-hd cap-----	4
	115 314	WASHER, lock-----	4
	26 272 R1	WASHER, flat-----	8
	444 612	PLUG, 1/8" hex-hd (top front)-----	1
12	230 766 R1	ELBOW, water inlet hose upper-----	1
13	674 409 C1	HOSE w/FITTINGS, water inlet (530)-----	1
		(24" long including fittings)	
	686 654 C1	HOSE w/FITTINGS, water inlet (540)-----	1
		(30" long including fittings)	
14	308 575 R1	CLAMP, hose (540)-----	1
	25 493 R1	SCREW, 5/16" x 1" hex-hd cap-----	1
	27 326 R1	WASHER, 5/16" hardened-----	2
	120 214	WASHER, 5/16" spring lock-----	1
15	9409 931	ELBOW, 1/8-27 NPT x 90°-----	1

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS - Continued (DT-466C for 530) (DTI-466C for 530)



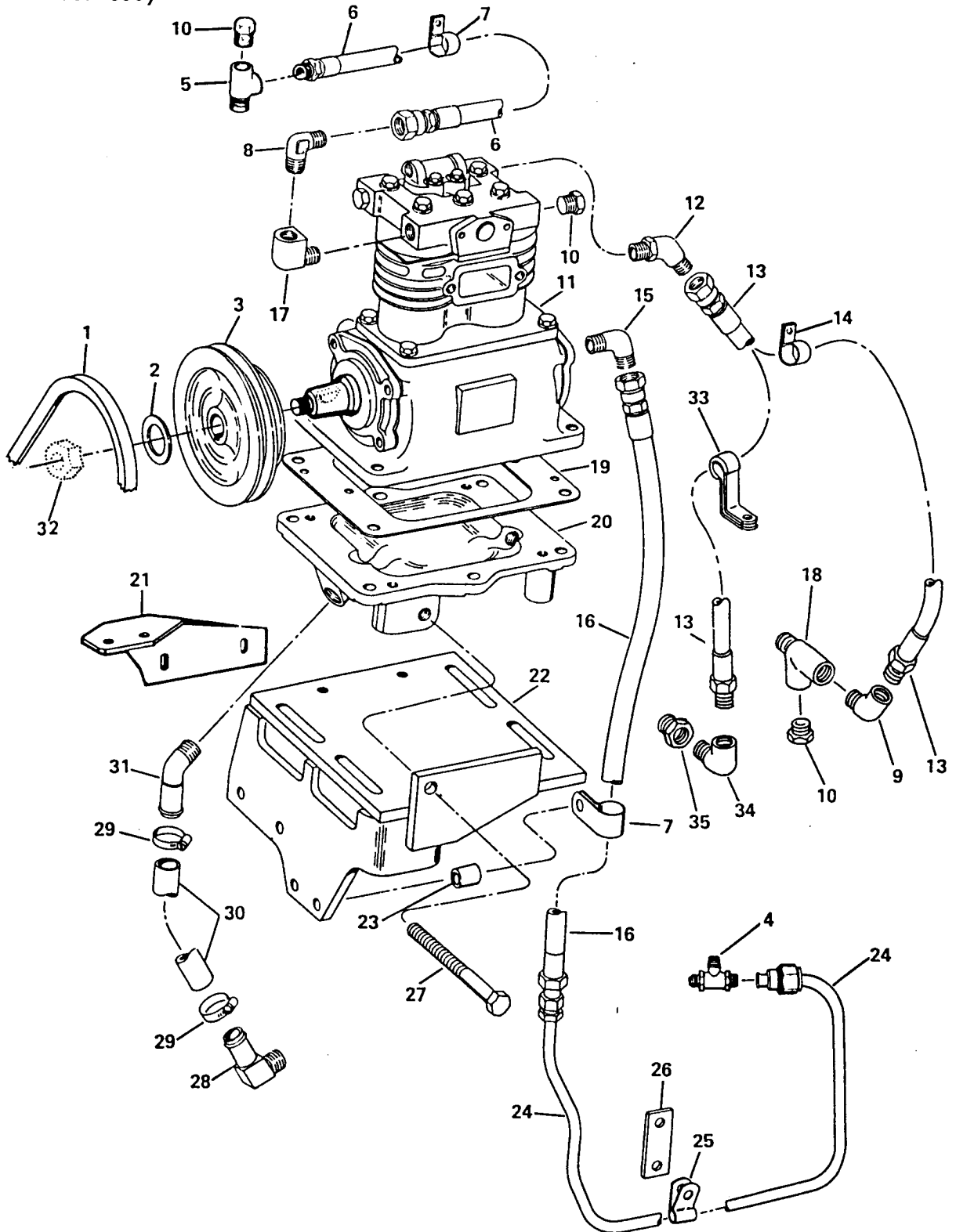
CG-10395

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued			
(DT-466C for 530)			
(DTI-466C for 530)			
16	681 940 C1	HOSE, air compressor oil inlet-----	1
17	444 042 C1	ELBOW, 3/8" x 90° auto. street-----	1
18	444 151	TEE, 3/8" auto. pipe (in crankcase - LH side) (540)--	1
19	60 863 DA	GASKET, air compressor-----	1
20	689 432 C92	BASE w/four STUD, 303 473 R1, air compressor-----	1
	25 532 R1	NUT-----	4
	115 093	WASHER, lock-----	4
	25 896 R1	WASHER, hardened-----	4
	444 697	PLUG, pipe-----	1
	303 473 R1	SUTD, base-----	4
21	1803 186 C1	BRACKET w/two NUT, air compressor-----	1
	24 840 R1	SCREW, 3/8" x 1" hex-hd cap-----	4
	24 841 R1	SCREW, 3/8" x 1-1/2" hex-hd cap-----	2
	115 093	WASHER, 3/8" lock-----	4
	25 896 R1	WASHER, 3/8" hardened-----	4
22	1808 115 C1	PLATE and BRACKET, air compressor mounting-----	1
	25 522 R1	NUT-----	3
	25 500 R1	SCREW, 3/8" x 3-1/4" hex-hd cap-----	3
	25 896 R1	WASHER, 3/8" hardened-----	4
23	26 241 H	SPACER-----	1
	24 842 R1	SCREW, 3/8" x 1-3/4" hex-hd cap-----	1
	25 896 R1	WASHER, 3/8" hardened-----	2
	25 522 R1	NUT, 3/8" hex-----	1
24	1808 245 C91	TUBE w/NUT, 915 499 R1, SLEEVE, 685 158 C1 and Fitting, air compressor oil inlet-----	1
	915 499 R1	NUT, coupling-----	1
	685 158 C1	SLEEVE, tube-----	1
25	299 400 C1	CLIP, tube-----	1
	26 310 R1	SCREW, 3/8" x 1" hex-hd cap-----	1
	25 522 R1	NUT, 3/8" hex-----	1
	25 544 R1	WASHER, 3/8" hardened-----	2
26	206 413 H1	PLATE, clamp support-----	1
	26 309 R1	SCREW, 3/8" x 3/4" prevailing torque-----	1
	25 544 R1	WASHER, 3/8" hardened-----	1

ACCESSORIES

AIR COMPRESSOR PIPING AND RELATED PARTS - Continued (DT-466C for 530) (DTI-466C for 530)



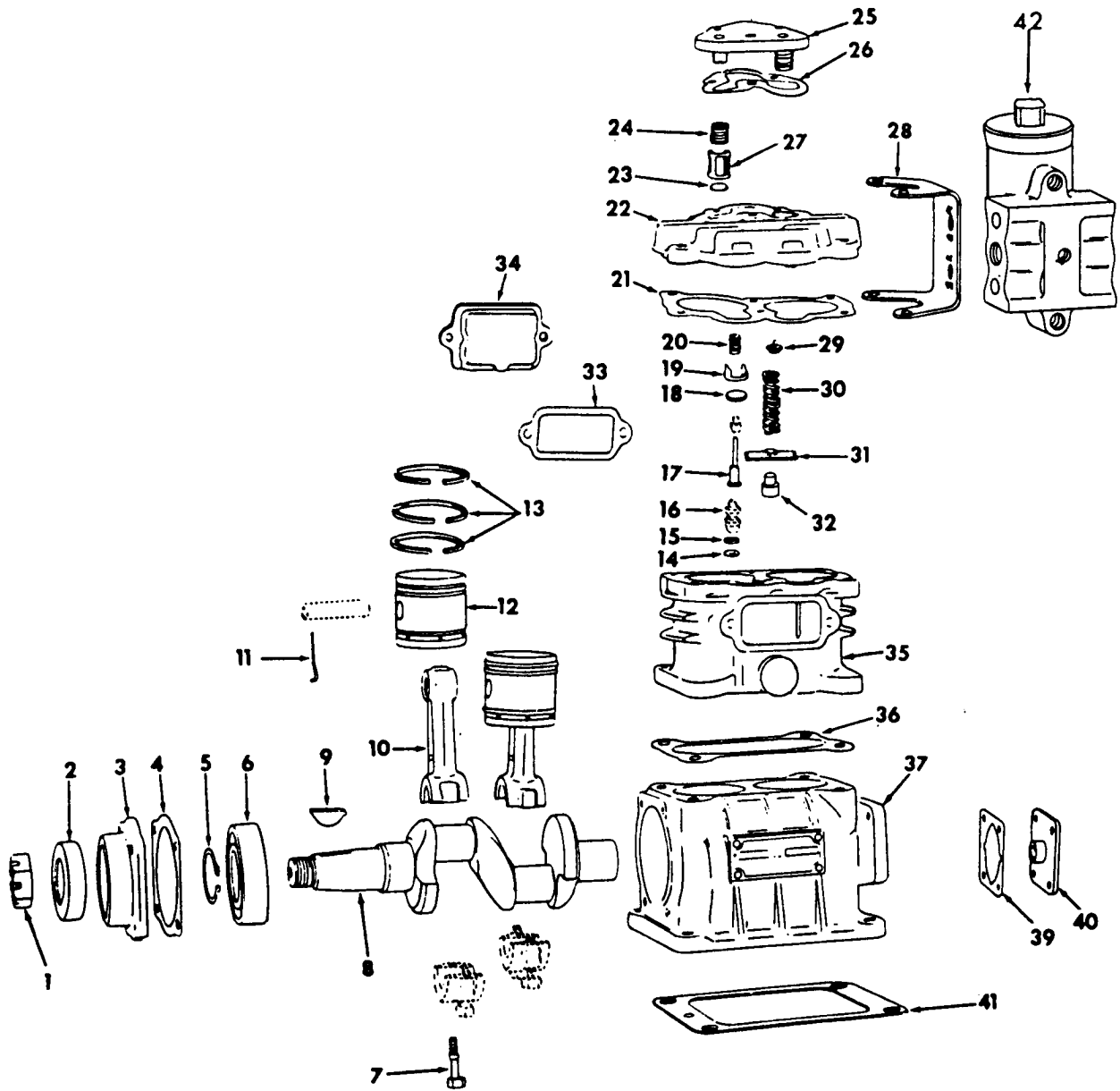
CG-10395

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR PIPING AND RELATED PARTS - Continued			
(DT-466C for 530)			
(DTI-466C for 530)			
27	683 449 C1	BOLT, air compressor adjusting-----	1
	26 272 R1	WASHER, 15/32" plain-----	1
	115 314	WASHER, 7/16" lock-----	1
28	864 455 R1	ELBOW, 3/8" NPT x 90°, oil drain hose lower-----	1
29	122 316 R91	CLAMP, hose-----	2
30	1806 998 C1	HOSE, oil drain-----	1
31	864 446 R1	ELBOW, 3/8" NPT x 45°, oil drain hose upper-----	1
32	427 640	NUT, air compressor crankshaft----- (Refer to "Air Compressor")	1
33	1806 044 C1	CLAMP, closed (530)-----	1
34	444 042	ELBOW, 3/8" x 90° street (530)-----	1
35	444 034	BUSHING, 1/2-14 x 3/8-18 reducer----- (In crankcase front cover - LH side)	1
	445 751	PLUG, 1/2" pipe (In crankcase front cover - LH side)-	1

ACCESSORIES

AIR COMPRESSOR
(DT-414 for E-200)
(DT-466 for 412)
(DT-466B for 412)



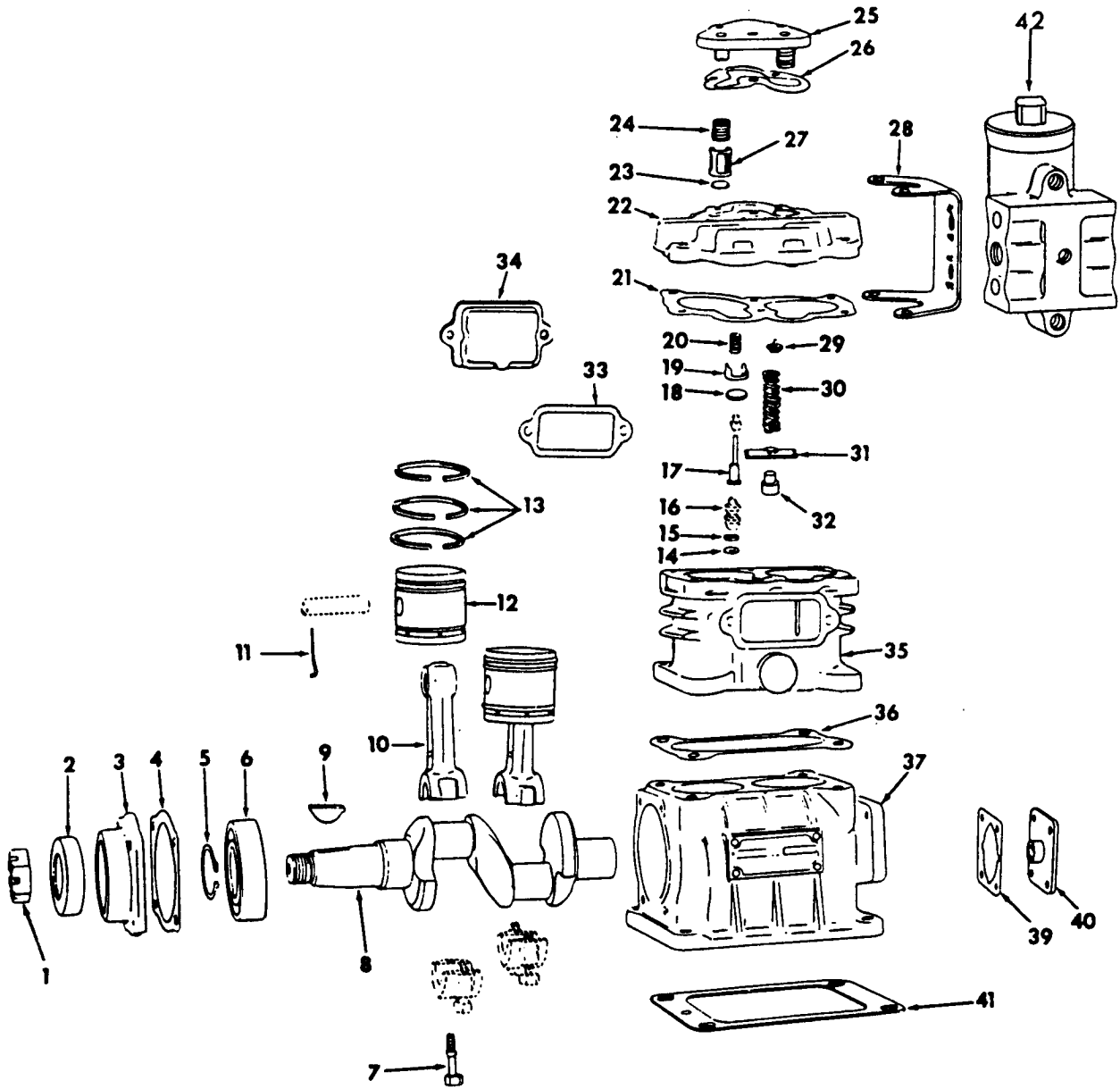
CG-6840

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR			
(DT-414 for E-200)			
(DT-466 for 412)			
(DT-466B for 412)			
	673 801 C92	COMPRESSOR ASSY, air----- Consists of the following parts:	1
1	272 920	NUT, crankshaft-----	1
2	610 465 C91	SEAL, oil-----	1
3	140 315 H1	COVER, front-----	1
	180 019	SCREW, 1/4" x 11/16" hex-hd cap-----	4
	103 319	WASHER, 1/4" lock-----	4
4	167 859 R1	GASKET, front cover-----	1
5	301 020 R1	RING, bearing snap-----	1
6	140 312 H1	BEARING, ball-----	1
7	167 865 R1	BOLT, connecting rod-----	4
8	167 862 R1	CRANKSHAFT-----	1
9	140 354 H1	KEY, Woodruff-----	1
10	140 323 H1	ROD w/two BOLT, 167 865 R1, connecting-----	2
	140 325 H1	STRAP, rod bolt lock-----	2
11	140 327 H1	WIRE, pin lock-----	2
12	140 326 H1	PISTON w/PIN (standard)-----	2
	190 499 R91	PISTON w/PIN (.010" oversize)-----	AR
	190 500 R91	PISTON w/PIN (.020" oversize)-----	AR
	190 501 R91	PISTON w/PIN (.030" oversize)-----	AR
13	140 329 H1	RING piston (standard)-----	2
	615 482 C1	RING piston (.010" oversize)-----	AR
	615 483 C1	RING piston (.020" oversize)-----	AR
	615 484 C1	RING piston (.030" oversize)-----	AR
14	182 077 R1	GROMMET, unloader piston (+)-----	2
15	182 078 R1	RING, unloader piston (+)-----	2
16	NSS	PISTON, unloader (+)-----	1

ACCESSORIES

AIR COMPRESSOR - Continued
(DT-414 for E-200)
(DT-466 for 412)
(DT-466B for 412)



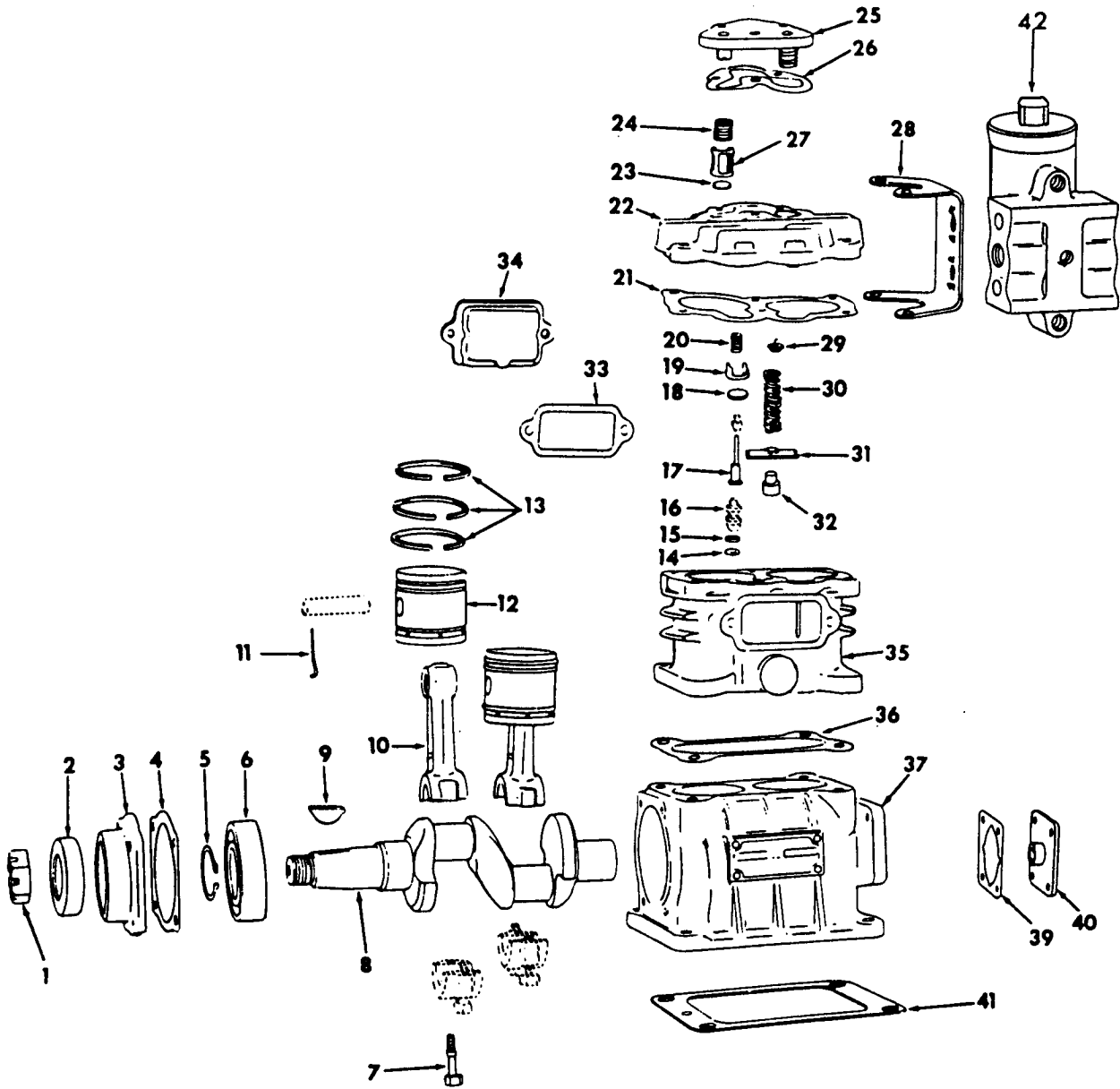
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ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR - Continued			
(DT-414 for E-200)			
(DT-466 for 412)			
(DT-466B for 412)			
17	NSS	GUIDE, unloader (+)-----	1
18	140 340 H1	VALVE, inlet-----	2
19	140 339 H1	GUIDE, inlet valve-----	2
20	140 341 H1	SPRING, inlet valve-----	2
21	140 342 H1	GASKET, cylinder head-----	1
22	184 917 R91	HEAD, cylinder-----	1
	180 019	SCREW, 11/16" hex-hd cap-----	5
	180 034	SCREW, 1-1/2" hex-hd cap-----	1
23	140 347 H1	VALVE, discharge-----	2
24	167 873 R1	SPRING, discharger valve-----	2
25	140 350 H1	COVER, cylinder head-----	1
	180 018	SCREW, 1/4" x 5/8" hex-hd cap-----	4
26	184 929 R1	GASKET, cylinder head cover-----	1
27	167 872 R1	GUIDE, discharge valve-----	2
28	167 880 R1	BRACKET, governor mounting-----	1
29	NSS	SEAT (+)-----	1
30	NSS	SPRING (+)-----	1
31	NSS	SADDLE (+)-----	1
32	NSS	GUIDE (+)-----	1
33	189 673 R1	GASKET, inlet adapter-----	1
34	615 479 C1	PLATE, inlet adapter-----	1
	180 019	SCREW, hex-hd cap-----	2
	103 319	SCREW, lock-----	2
35	189 674 R11	BLOCK, cylinder-----	1
	25 493 R1	SCREW, hex-hd cap-----	4
	112 723	WASHER, lock-----	4

ACCESSORIES

AIR COMPRESSOR - Continued
(DT-414 for E-200)
(DT-466 for 412)
(DT-466B for 412)



CG-6840

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR			
(DT-414 for E-200)			
(DT-466 for 412)			
(DT-466B for 412)			
36	140 307 H1	GASKET, cylinder block-----	1
37	167 857 R11	CRANKCASE-----	1
39	140 319 H1	GASKET, rear cover-----	1
40	180 142 H1	COVER, crankcase rear-----	1
	109 424	SCREW, hex-hd cap-----	4
	131 184	WASHER-----	4
41	149 327 H1	GASKET, mounting-----	1
42	NSS	GOVERNOR ASSY, air (Order Package 631 626 C91)-----	1
	631 626 C91	KIT, governor repair-----	1
		Consists of:	
	NSS	COVER, governor-----	1
	NSS	FILTER, governor-----	1
	NSS	"O" RING, exhaust stem-----	1
	NSS	"O" RING, piston-----	2
	NSS	SPRING, valve-----	1
	NSS	VALVE, inlet & exhaust-----	1
	169 063 R91	KIT, piston unloader-----	1
	995 061 R1	PIPE, compressor to governor (%)-----	1
	96 644 R1	ELBOW (at compressor)-----	1
	294 363 R1	ELBOW (at governor)-----	1
	30 773 V	NUT, elbow-----	2
	30 774 V	SLEEVE, nut-----	2
	631 625 C91	VALVE ASSY, breather-----	1
	24 942 R1	NUT, hex-----	2
	26 564 R1	SCREW, hex-hd cap-----	2
	112 723	WASHER, lock-----	2

(+) - Furnished as Part of Unloader
Service Kit, 169 063 R91

(%) - Part Number Covers 1 Foot of
Bulk Tubing

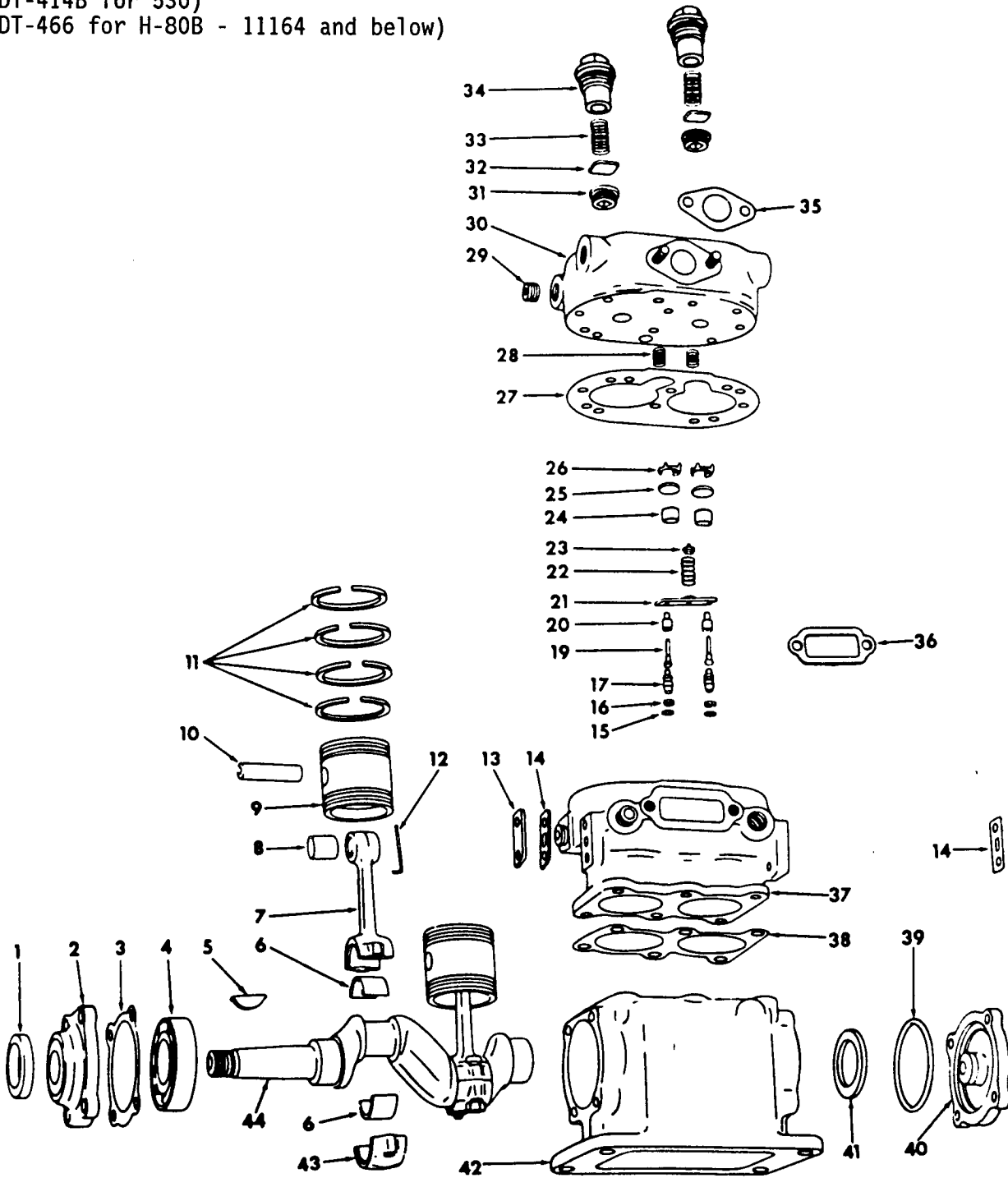
ACCESSORIES

AIR COMPRESSOR

(DT-414 for H-65C and 530)

(DT-414B for 530)

(DT-466 for H-80B - 11164 and below)



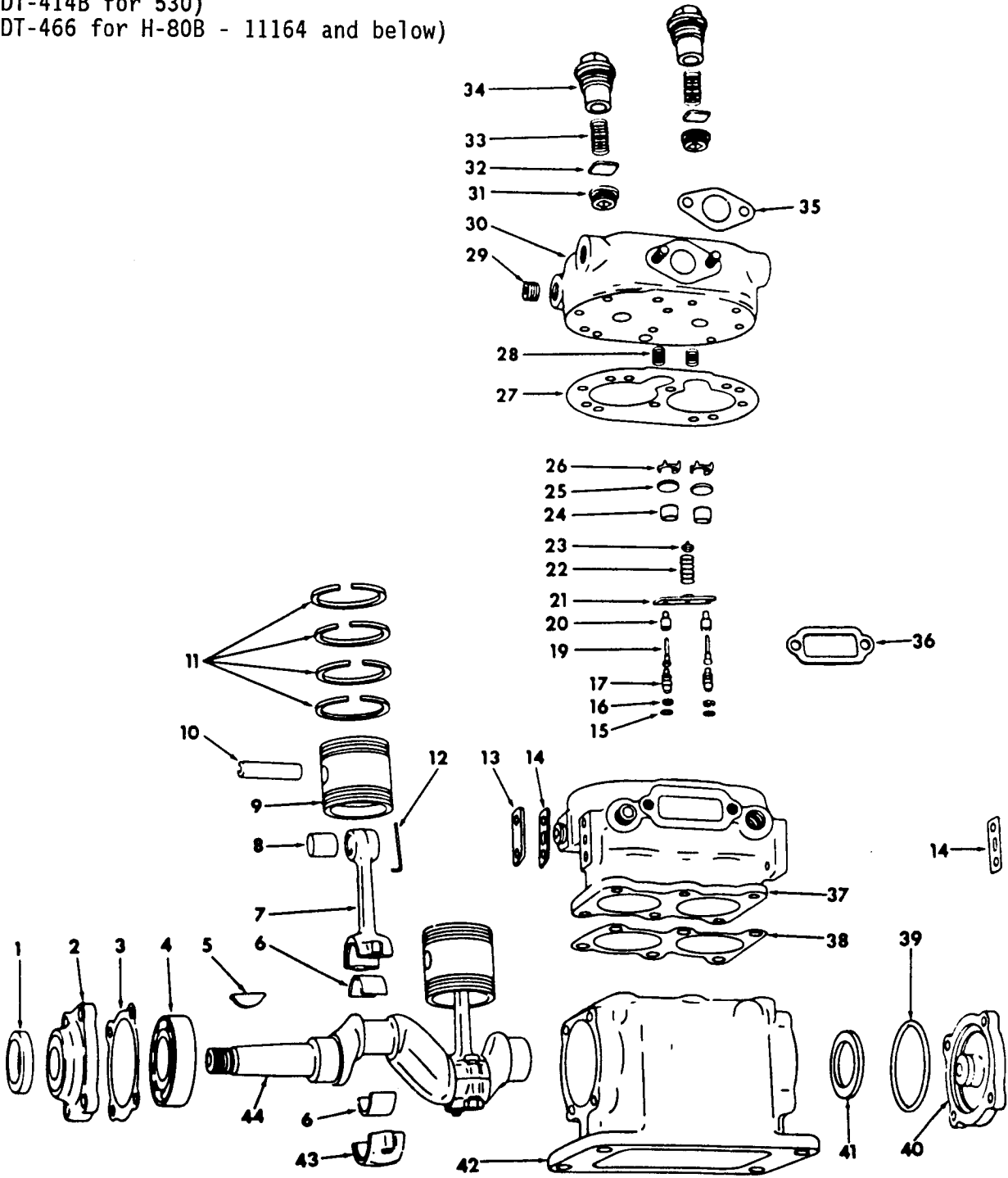
CG-5677

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B - 11164 and below)			
	217 875 R92	COMPRESSOR ASSY, air (less governor and strainer)--- Consists of the following parts:	1
1	328 528 C91	SEAL, crankshaft-----	1
2	137 070 R1	COVER, front end-----	1
	302 026 R1	SCREW, hex-hd cap (cover to crankcase)-----	4
	120 214	WASHER, lock-----	4
3	139 883 H	GASKET, end cover-----	1
4	ST-204A	BEARING, crankshaft-----	1
5	25 920 HO	KEY, crankshaft Woodruff-----	1
6	228 676 R11	BEARING, connecting rod (standard)-----	2
	228 677 R11	BEARING, connecting rod (.010" undersize)-----	AR
	228 678 R11	BEARING, connecting rod (.020" undersize)-----	AR
	228 679 R11	BEARING, connecting rod (.030" undersize)-----	AR
7	228 674 R91	ROD w/BUSHING and CAP, connecting-----	2
	208 495 R1	BOLT, connecting rod-----	4
	228 675 R1	WASHER, lock-----	4
8	NSS	BUSHING, wrist pin (part of Rod Assy)-----	1
9	172 075 R91	PISTON w/PIN (standard)-----	2
	296 957 R91	PISTON w/PIN (.010" oversize)-----	AR
	296 959 R91	PISTON w/PIN (.020" oversize)-----	AR
	296 961 R91	PISTON w/PIN (.030" oversize)-----	AR
10	296 963 R1	PIN, wrist (.005" oversize)-----	AR
11	172 074 R91	RING SET (standard)-----	2
	185 463 R91	RING SET (.010" oversize)-----	AR
	185 464 R91	RING SET (.020" oversize)-----	AR
	185 465 R91	RING SET (.030" oversize)-----	AR
12	302 120 R1	WIRE, wrist pin lock-----	2
13	166 563 R1	PLATE, governor mounting hole cover-----	1
	302 045 R1	SCREW, cover-----	2
		WASHER, lock-----	2

ACCESSORIES

AIR COMPRESSOR - Continued
 (DT-414 for H-65C and 530)
 (DT-414B for 530)
 (DT-466 for H-80B - 11164 and below)



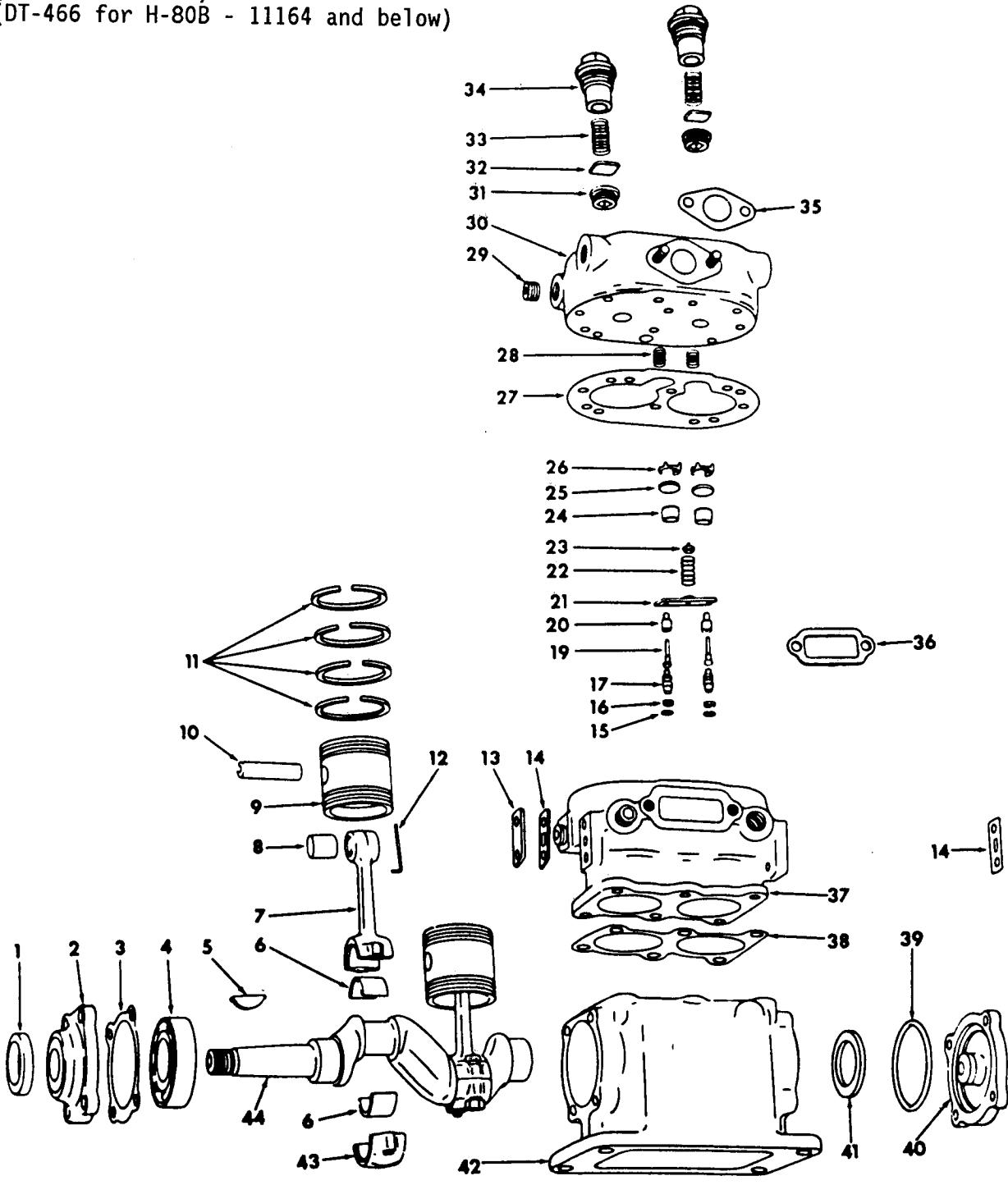
CG-5677

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR - Continued			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B - 11164 and below)			
14	166 562 R1	GASKET, governor mounting hole cover plate-----	1
15	182 077 R1	GROMMET, piston unloader plunger-----	2
16	182 078 R1	RING, piston back-up-----	2
17	NSS	PISTON (+)-----	1
19	NSS	PLUNGR (+)-----	1
20	NSS	GUIDE (+)-----	1
21	NSS	SADDLE (+)-----	1
22	NSS	SPRING (+)-----	1
23	NSS	SEAT (+)-----	1
24	NSS	SEAT (+)-----	1
25	302 041 R1	VALVE, inlet-----	1
26	202 205 R2	GUIDE, inlet valve-----	2
27	168 678 R1	GASKET, cylinder head-----	1
28	302 042 R1	SPRING, inlet valve-----	2
29	103 867	PLUG, 3/8" countersunk sq-hd pipe-----	7
	362 355 R3	PLUG, pipe soc-hd 1/4"-----	1
30	168 673 R91	HEAD, cylinder-----	1
		NUT-----	2
		SCREW, hex-hd cap (Head to Block)-----	8
	177 788 R1	STUD, flange-----	2
	302 163 R1	WASHER, 5/16" cylinder head-----	8
31	168 675 R1	SEAT, discharge valve-----	2
32	38 862 DM	VALVE, discharge-----	2
33	142 374 H	SPRING, discharge valve-----	2

ACCESSORIES

AIR COMPRESSOR - Continued
(DT-414 for H-65C and 530)
(DT-414B for 530)
(DT-466 for H-80B - 11164 and below)



CG-5677

ACCESSORIES

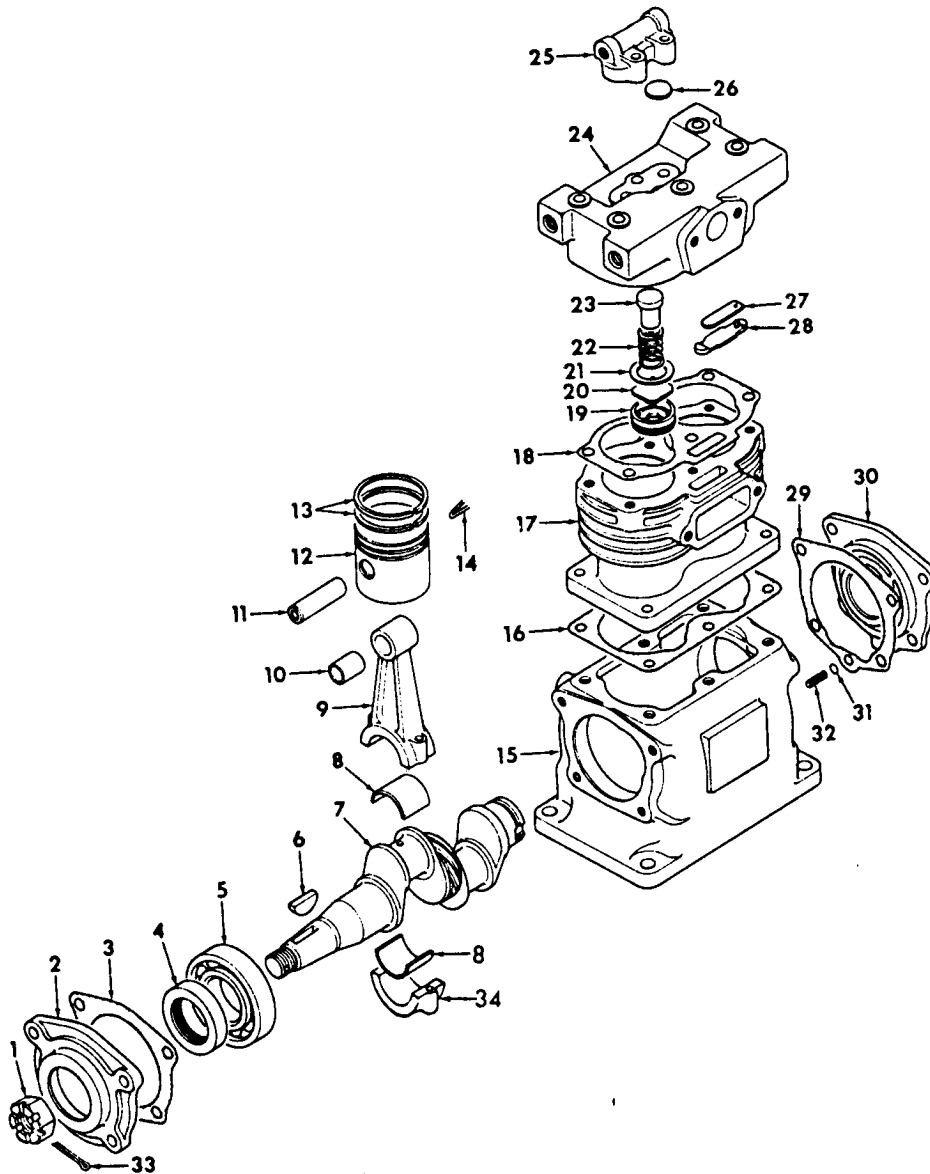
Ref No	Part Number	Description	Quantity
AIR COMPRESSOR - Continued			
(DT-414 for H-65C and 530)			
(DT-414B for 530)			
(DT-466 for H-80B - 11164 and below)			
34	292 640 R1	CAP, discharge valve-----	2
35	92 474 H	GASKET, flange, cylinder head fitting-----	1
36	302 044 R1	GASKET, air strainer or inlet elbow-----	1
37	184 936 R91	BLOCK w/VALVE SEATS and BUSHINGS, cylinder-----	1
		SCREW, hex-hd cap-----	6
		WASHER, lock-----	6
	103 866	PLUG, 1/4" sq-hd pipe-----	1
38	139 878 H	GASKET, cylinder block-----	1
39	366 581 R1	SEAL, rear cover "O" ring-----	1
40	870 018 R91	COVER w/BUSHING, rear end (standard)-----	1
	870 019 R91	COVER w/BUSHING, rear end (.010" undersize)-----	AR
	870 020 R91	COVER w/BUSHING, rear end (.020" undersize)-----	AR
	870 021 R91	COVER w/BUSHING, rear end (.030" undersize)-----	AR
41	870 031 R1	WASHER, crankcase rear thrust-----	1
42	698 316 R1	CRANKCASE w/OIL TUBE, compressor-----	1
43	NSS	CAP (Part of Rod Assy)-----	1
44	870 017 R1	CRANKSHAFT, compressor-----	1
	137 818 H	NUT, crankshaft-----	1
	169 064 R91	KIT, piston unloader-----	1
		Consists of:	
	302 044 R1	GASKET-----	1
	182 077 R1	GROMMET-----	1
	NSS	GUIDE-----	1
	NSS	PISTON-----	1
	NSS	PLUNGER-----	1
	182 078 R1	RING-----	1
	NSS	SADDLE-----	1
	NSS	SEAT-----	2
	NSS	SPRING-----	1

(+) - Furnished as part of Piston
Unloader Service Kit, 169 064 R91

ACCESSORIES

AIR COMPRESSOR

(DT-414B and DT-466C for 530)
(DT-466 for H-80B - 11165 and up)
(DT-466B for H-80B, 412B and 540)
(DTI-466C for 540)



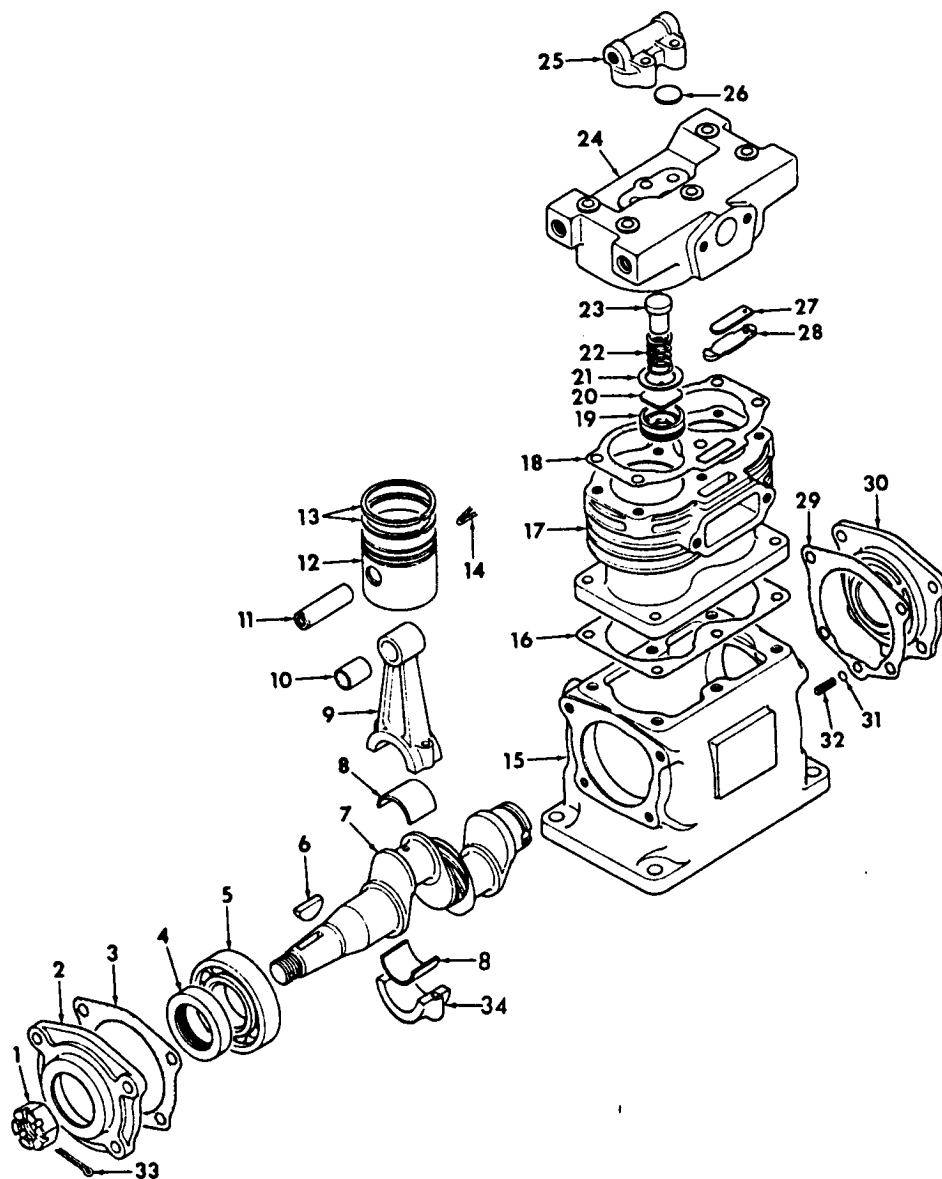
CG-6333

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR			
(DT-414B and DT-466C for 530)			
(DT-466 for H-80B - 11165 and up)			
(DT-466B for H-80B, 412B and 540)			
(DTI-466C for 540)			
	398 568 C92	COMPRESSOR ASSY, air----- Consists of the following parts:	1
1	427 640	NUT, 3/4" NF hex-----	1
2	NSS	COVER, front end-----	1
	26 678 R1	BOLT, cover-----	4
3	177 666 R1	GASKET, front end cover-----	1
4	938 294 R91	SEAL, crankshaft-----	1
5	ST 205 A	BEARING, crankshaft-----	1
6	124 553	KEY, crankshaft-----	1
7	300 836 C1	CRANKSHAFT-----	1
8	177 792 R21	BEARING, connecting rod (standard)-----	2
	866 250 R11	BEARING, connecting rod (.020" undersize)-----	AR
9	1221 245 H91	ROD w/CAP, connecting-----	2
	1221 246 H1	BOLT, bearing cap-----	4
11	NSS	PIN, wrist-----	1
12	291 175 C92	PISTON SET (standard)----- (Consists of 2 Pistons with Pins and Buttons)	1
	291 176 C92	PISTON SET (.020" oversize)----- (Consists of 2 Pistons with Pins and Buttons)	1
13	474 570 C91	RING SET, piston (standard)-----	1
	474 571 C91	RING SET, piston (.020" oversize)-----	1
14	NSS	BUTTON, wrist pin-----	1
15	NSS	CRANKCASE-----	1
16	177 678 R1	GASKET, cylinder block-----	1
17	1221 247 H1	BLOCK, cylinder-----	1
	177 664 R1	STUD, cylinder block-----	6

ACCESSORIES

AIR COMPRESSOR - Continued
(DT-414B and DT-466C for 530)
(DT-466 for H-80B - 11165 and up)
(DT-466B for H-80B, 412B and 540)
(DTI-466C for 540)



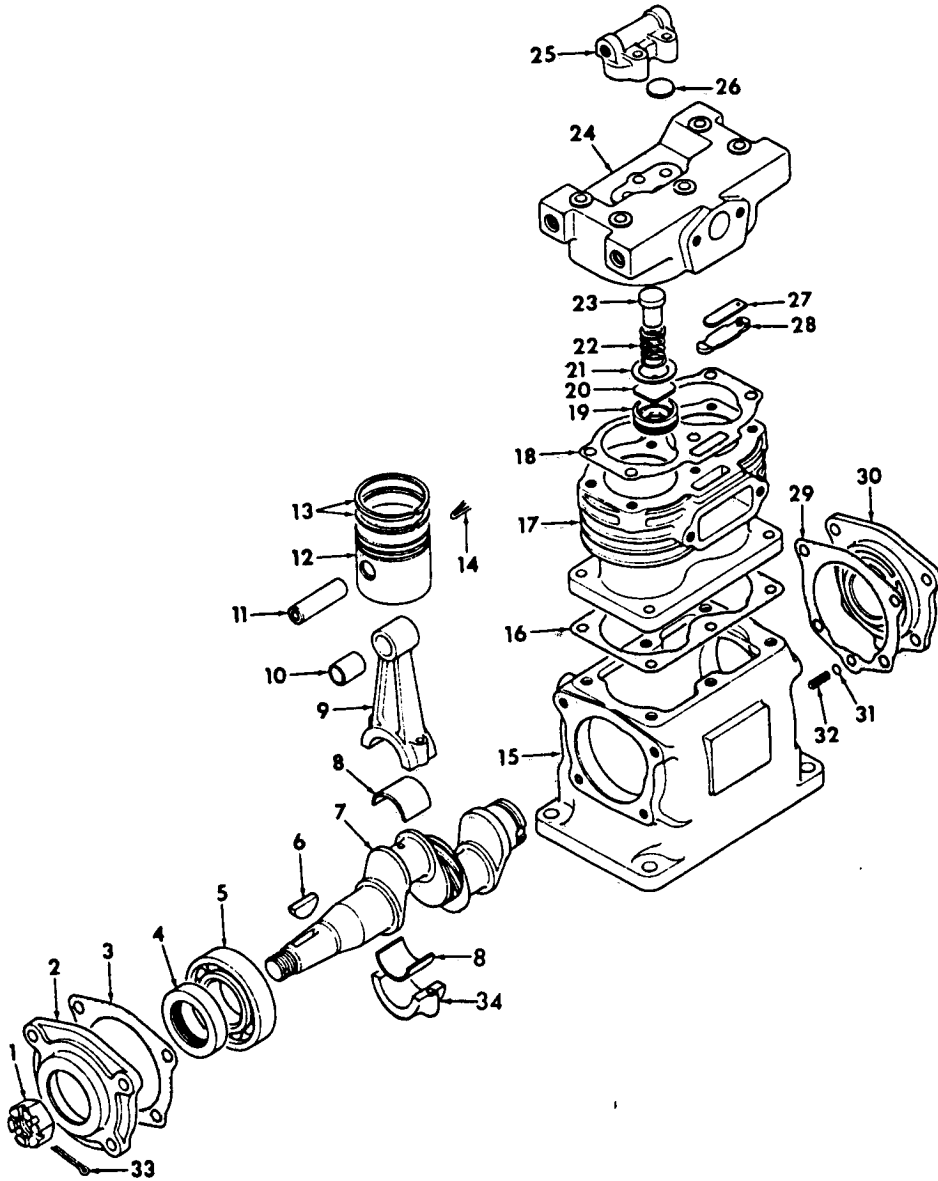
CG-6333

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR - Continued			
(DT-414B and DT-466C for 530)			
(DT-466 for H-80B - 11165 and up)			
(DT-466B for H-80B, 412B and 540)			
(DTI-466C for 540)			
18	861 442 R1	GASKET, cylinder head-----	1
19	301 796 C1	SEAT, discharge valve-----	2
20	301 795 C1	VALVE, discharge-----	2
21	301 797 C1	WASHER, copper-----	2
22	177 688 C1	SPRING, discharge valve-----	2
23	298 559 C1	CAGE, discharge valve-----	2
24	861 443 R94	HEAD, cylinder-----	1
	866 260 R1	BOLT, cylinder head-----	5
25	429 758 C92	VALVE, unloader-----	1
	474 456 R1	BOLT, NC hex-hd-----	2
26	1221 639 H1	KIT, unloader valve-----	1
		Consists of:	
	NSS	EXPANDER-----	2
	NSS	DIAPHRAM CUP-----	2
	NSS	STEM & HEAD ASSY-----	2
	NSS	SPRING-----	2
	NSS	RETAINER-----	2
27	177 692 R1	VALVE, air inlet-----	2
28	210 234 R91	GUARD, inlet valve-----	2
29	177 668 R1	GASKET, rear end cover-----	1
30	273 025 C92	COVER w/BUSHING, rear end (standard)-----	1
	26 678 R1	BOLT, cover-----	4
31	276 584 C1	"O" RING, insert bushing-----	2
32	280 955 C1	BUSHING, insert-----	1
33	103 386	PIN, cotter-----	1
34	NSS	CAP-----	1

ACCESSORIES

AIR COMPRESSOR - Continued
(DT-414B and DT-466C for 530)
(DT-466 for H-80B - 11165 and up)
(DT-466B for H-80B, 412B and 540)
(DTI-466C for 540)



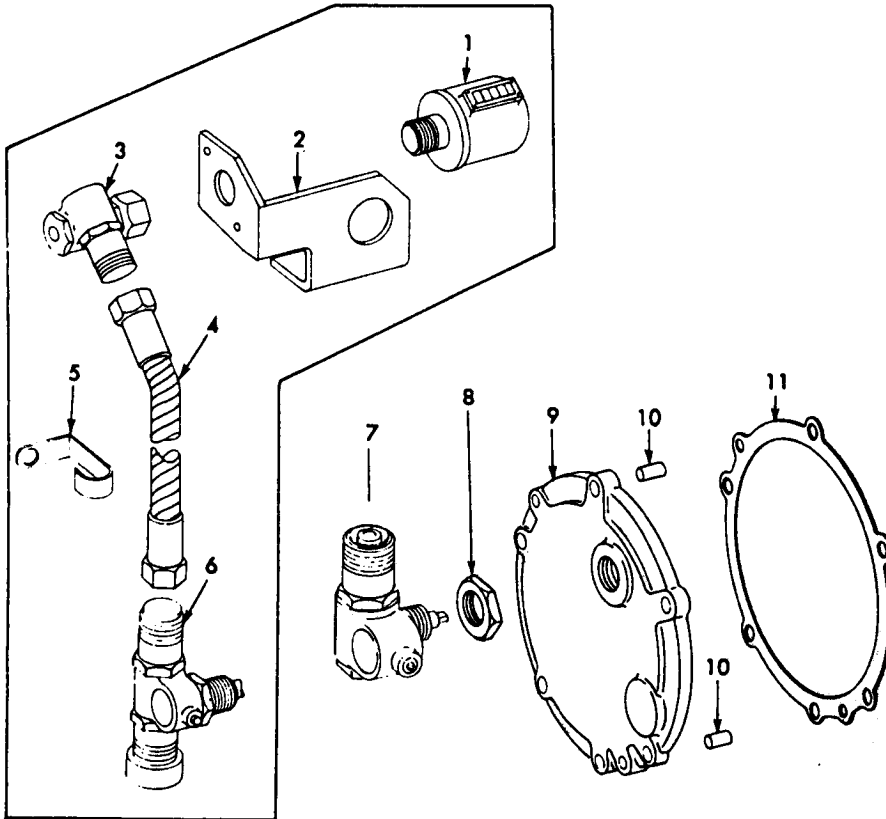
CG-6333

ACCESSORIES

Ref No	Part Number	Description	Quantity
AIR COMPRESSOR - Continued			
(DT-414B and DT-466C for 530)			
(DT-466 for H-80B - 11165 and up)			
(DT-466B for H-80B, 412B and 540)			
(DTI-466C for 540)			
474 574 C91		KIT, compressor minor repair-----	1
		Consists of:	
177 792 R21		BEARING-----	2
177 666 R1		GASKET-----	1
177 678 R1		GASKET-----	1
861 442 R1		GASKET-----	1
177 668 R1		GASKET-----	1
276 584 C1		"O" RING-----	2
474 570 C91		RING SET-----	1
938 294 R91		SEAL, shaft-----	1
301 796 C1		SEAT-----	2
177 688 R1		SPRING-----	2
177 692 R1		VALVE-----	2
301 795 C1		VALVE-----	2
301 797 C1		WASHER-----	2
300 874 C92		KIT, compressor major repair-----	1
		Consists of:	
474 574 C91		KIT, minor repair-----	1
291 175 C92		PISTON SET-----	1
291 194 C92		ROD, with cap-----	2
429 758 C92		UNLOADER ASSY-----	1
1221 247 H1		BLOCK, cylinder-----	1
ST 205 A		BEARING, crankshaft-----	1
273 025 C92		COVER w/BUSHING, rear-----	1

ACCESSORIES

TACHOMETER DRIVE, SERVICE RECORDER AND RELATED PARTS (DT-466 for TD-15C and 175C)



CG-6836

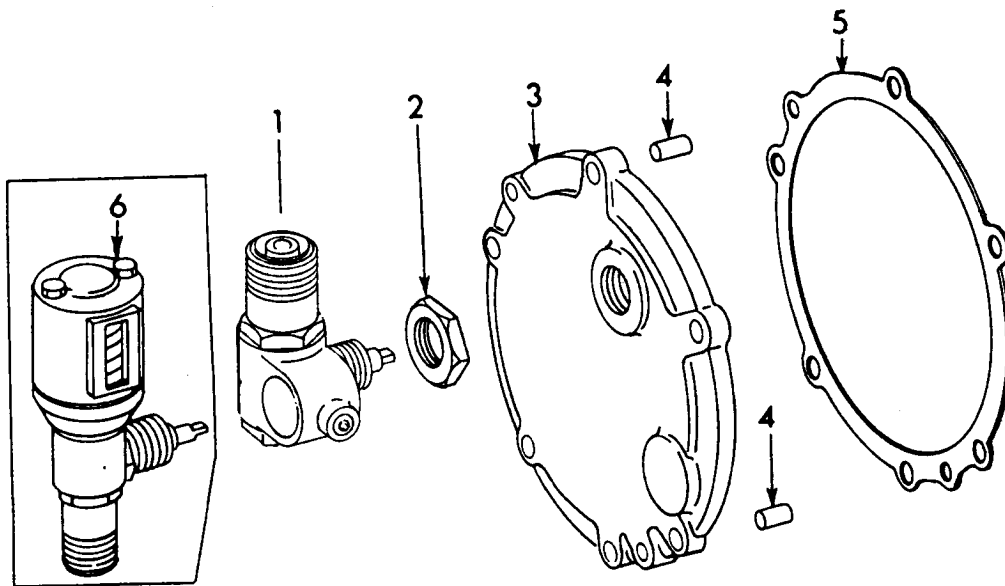
ACCESSORIES

Ref No	Part Number	Description	Quantity
TACHOMETER DRIVE, SERVICE RECORDER AND RELATED PARTS			
(DT-466 for TD-15C and 175C)			
1	673 368 C91	RECORDER, service - 17399 and below-----	1
	673 370 C1	CLAMP, meter-----	2
	138 201	SCREW, soc-hd-----	2
	103 319	WASHER, lock-----	2
2	673 711 C1	BRACKET, service recorder mounting - 17399 and below-----	1
	24 648 R1	SCREW, hex-hd cap-----	1
3	673 369 C91	ADAPTER, right angle - 17399 and below-----	1
4	673 710 C91	SHAFT, flexible - 17399 and below-----	1
5	673 763 C1	CLIP, cable - 17399 and below-----	1
6	673 708 C91	ADAPTER, dual angle - 17399 and below-----	1
7	686 761 C1	ADAPTER, tach drive (Used w/HOURMETER) - 17400 and up	1
8	683 079 C1	LOCKNUT, seal-----	1
	279 673 R1	SEAL, wire (Used s/SERVICE RECORDER)-----	1
9	673 769 C91	COVER w/two PIN, 680 481 C1, injection pump access---	1
	674 080 C2	BOLT-----	1
	25 520 R1	NUT-----	3
	26 034 R1	SCREW, 3-3/4" hex-hd cap-----	3
	25 493 R1	SCREW, 1" hex-hd cap-----	1
	26 057 R1	SCREW, 3-1/2" hex-hd cap-----	1
	27 326 R1	WASHER, hardened-----	9
10	680 481 C1	PIN, dowel-----	2
11	675 816 C1	GASKET, injection pump access cover-----	1

ACCESSORIES

TACHOMETER DRIVE, SERVICE RECORDER AND RELATED PARTS

(DT-414 for H-65C, 530 and E-200)
(DT-466 for H-80B, 412, 433 and 444)



CG-6837

ACCESSORIES

Ref No	Part Number	Description	Quantity
TACHOMETER DRIVE, SERVICE RECORDER AND RELATED PARTS			
(DT-414 for H-65C, 530 and E-200)			
(DT-466 for H-80B, 412, 433 and 444)			
1		(See Individual Engine Variation)	
2	683 079 C1	LOCKNUT, seal-----	1
	279 673 R1	SEAL, wire (Used w/SERVICE RECORDER)-----	1
3		(See Individual Engine Variation)	
4	680 481 C1	PIN, dowel-----	2
5	675 816 C1	GASKET, injection pump access cover-----	1
6		(See Individual Engine Variation)	

ENGINE VARIATIONS

(DT-414 for H-65C and E-200)
(DT-466 and H-80B and 412)

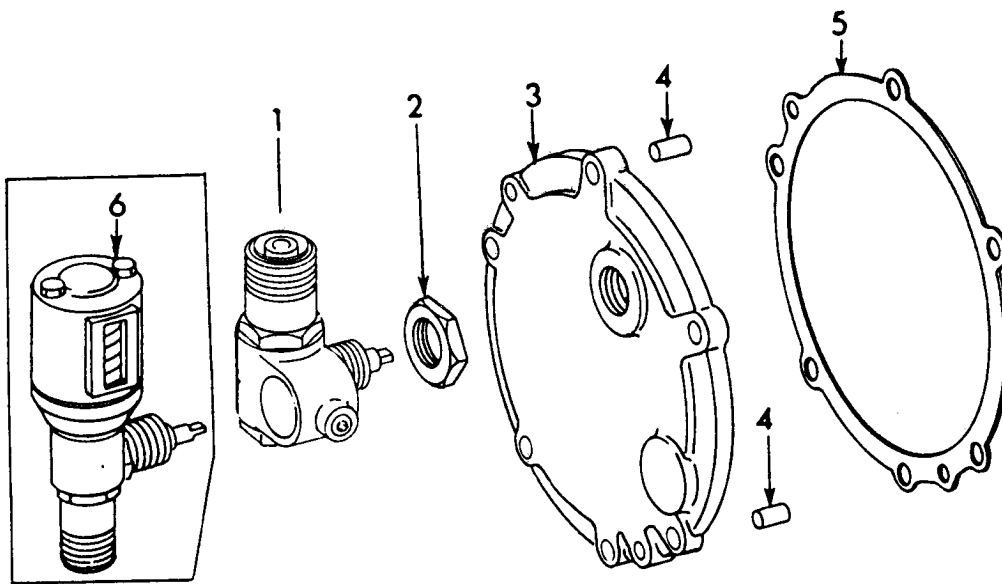
1	686 761 C1	ADAPTER, tach. drive (Used w/HOURMETER) - # and up--	1
3	674 021 C91	COVER w/two PIN, 680 481 C1, injection pump access---	1
6	673 431 C91	RECORDER, service - # and below-----	1
	25 520 R1	NUT-----	3
	26 034 R1	SCREW, 3-3/4" hex-hd cap-----	3
	26 057 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 493 R1	SCREW, 1" hex-hd cap-----	1
	27 326 R1	WASHER, hardened-----	9
		Order the following parts:	
	686 761 C1	ADAPTER-----	1
	709 157 C1	BRACKET (%)-----	1
	444 024	BUSHING (%)-----	1
	663 187 C1	CABLE (%)-----	1
	709 158 C1	CABLE (%)-----	1
	709 159 C1	CABLE (%)-----	1
	CZG-2520	DRAWING-----	1
	118 833	GROMMET (%)-----	1
	709 145 C1	HOURMETER (%)-----	1
	CZG-2517	INSTALLATION (%)-----	1
	116 457 H1	PACKAGE (%)-----	1
	709 160 C1	PACKAGE (%)-----	1

(%) - Refer to Chassis Parts Catalog

ACCESSORIES

TACHOMETER DRIVE, SERVICE RECORDER AND RELATED PARTS - Continued

(DT-414 for H-65C, 530 and E-200)
(DT-466 for H-80B, 412, 433 and 444)



CG-6837

ACCESSORIES

Ref No	Part Number	Description	Quantity
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TACHOMETER DRIVE, SERVICE RECORDER AND RELATED PARTS - Continued
 (DT-414 for H-65C, 530 and E-200)
 (DT-466 for H-80B, 412, 433 and 444)

ENGINE VARIATIONS - Continued

(DT-414 for H-65C and E-200 - Continued)
(DT-466 and H-80B and 412 - Continued)

25 519 R1	NUT (%)-----	2
683 079 C1	NUT-----	2
25 483 R1	SCREW (%)-----	2
702 093 C1	STRAP (%)-----	12
663 392 C1	SWITCH (%)-----	1
663 392 C1	SWITCH (%)-----	1
444 253	TEE (%)-----	1
444 256	TEE (%)-----	1
115 109	WASHER (%)-----	2

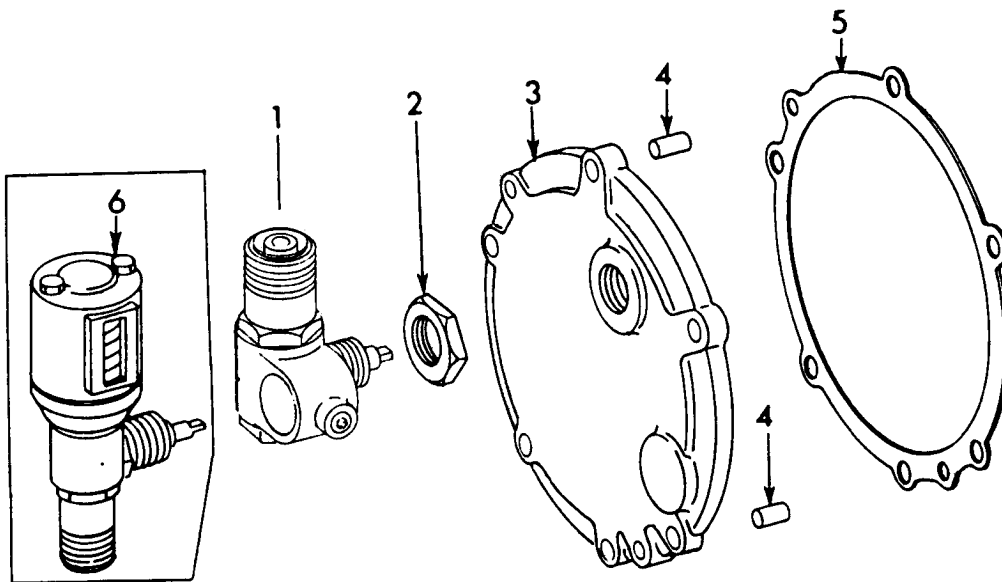
(DT-466 for 433 and 444)

1	681 861 C1	ADAPTER, tach. drive - 5299 to 13302-----	1
		Order the following parts:	
	686 761 C1	ADAPTER-----	1
	CZG-2519	CHART-----	1
	674 021 C91	COVER -----	1
	CZG-2520	DRAWING-----	1
	683 079 C1	LOCKNUT-----	1
1	686 761 C1	ADAPTER, tach.drive (Used w/HOURMETER) - 13303 and up	1
3	674 021 C91	COVER w/two PIN, 680 481 C1, injection pump access--- (Used w/ADAPTER,686 761 C1 and RECORDER, 673 431 C91) - 5298 and below also 13303 and up	1
3	675 814 C91	COVER w/two PIN, 680 481 C1, injection pump access--- (Used w/ADAPTER, 681 861 C1) - 5299 to 13302	1
	25 520 R1	NUT-----	3
	26 034 R1	SCREW, 3-3/4" hex-hd cap-----	3
	26 057 R1	SCREW, 3-1/2" hex-hd cap-----	1
	25 498 R1	SCREW, 1" hex-hd cap-----	1
	27 326 R1	WASHER, hardened-----	1
6	673 431 C91	ADAPTER, tach. drive - 5298 and below-----	1
		Order the following parts:	
	686 761 C1	ADAPTER-----	1
	709 157 C1	BRACKET (%)-----	1
	444 024	BUSHING (%)-----	1

(%) - Refer to Chassis Parts Catalog

ACCESSORIES

TACHOMETER DRIVE, SERVICE RECORDER AND
RELATED PARTS - Continued
(DT-414 for H-65C, 530 and E-200)
(DT-466 for H-80B, 412, 433 and 444)



CG-6837

ACCESSORIES

Ref No	Part Number	Description	Quantity
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**TACHOMETER DRIVE, SERVICE RECORDER AND
RELATED PARTS - Continued**

(DT-414 for H-65C, 530 and E-200)
(DT-466 for H-80B, 412, 433 and 444)

ENGINE VARIATIONS - Continued

(DT-466 for 433 and 444 - Continued)

663 187 C1	CABLE (%)-----		1
709 158 C1	CABLE (%)-----		1
709 159 C1	CABLE (%)-----		1
CZG-2520	DRAWING-----		1
118 833	GROMMET (%)-----		1
709 145 C1	HOURMETER (%)-----		1
CZG-2517	INSTALLATION (%)-----		1
116 457 H1	PACKAGE (%)-----		1
709 160 C1	PACKAGE (%)-----		1
25 519 R1	NUT (%)-----		2
683 079 C1	NUT-----		2
25 483 R1	SCREW (%)-----		2
702 093 C1	STRAP (%)-----		12
663 392 C1	SWITCH (%)-----		1
444 253	TEE (%)-----		1
444 256	TEE (%)-----		1
115 109	WASHER (%)-----		2

(DT-414 for 530)

1	686 761 C1	ADAPTER, tach. drive-----	1
3	674 021 C91	COVER w/two PIN, 680 481 C1, injection pump access---	1

(%) - Refer to Chassis Parts Catalog

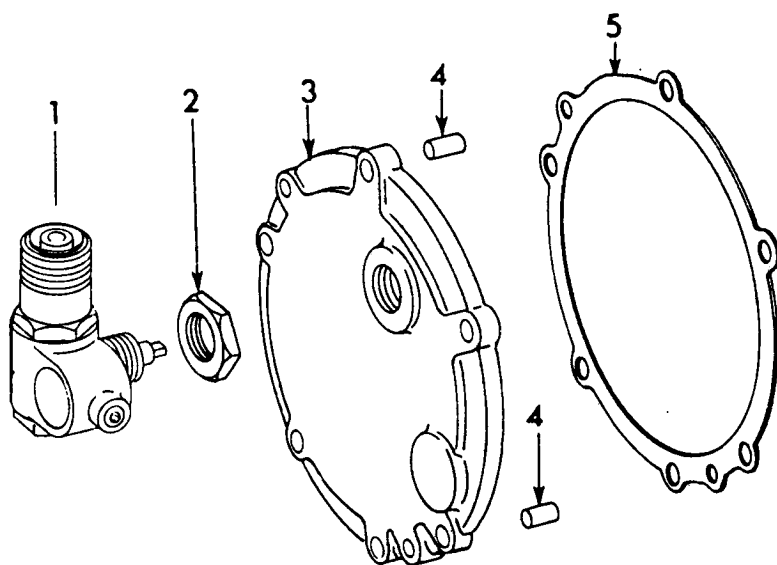
ACCESSORIES

TACHOMETER DRIVE AND RELATED PARTS

(DT-414B for 530)

(D-466 for TD-12)

(DT-466B for TD-12, TD-15C, 175C,
H-80B, 412, 412B, 433B, 444B and 540)



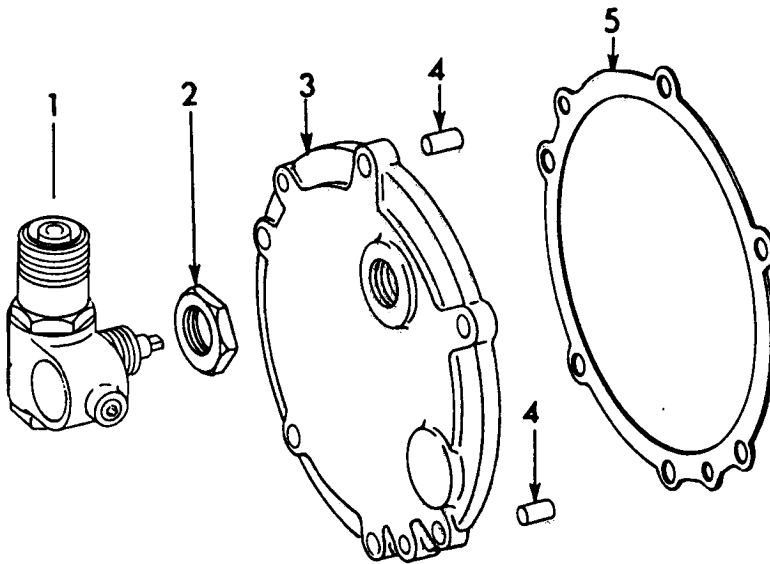
CG-5675

ACCESSORIES

Ref No	Part Number	Description	Quantity
TACHOMETER DRIVE AND RELATED PARTS			
(DT-414B for 530)			
(D-466 for TD-12)			
(DT-466B for TD-12, TD-15C, 175C, H-80B, 412, 412B, 433B, 444B and 540)			
1		(See Individual Engine Variation)	
2	683 079 C1	LOCKNUT, seal-----	1
	279 673 R1	SEAL, wire-----	1
3		(See Individual Engine Variation)	
4	680 481 C1	PIN, dowel-----	2
5	675 816 C1	GASKET, injection pump access cover-----	1
ENGINE VARIATIONS			
(D-466 for TD-12)			
(DT-466B for TD-15C, 1756C and TD-12)			
3	675 814 C91	COVER w/two PIN, 680 481 C1, injection pump access---	1
	26 057 R1	SCREW, 3-1/2" hex-hd cap-----	1
	26 586 R1	SCREW, 4-1/2" hex-hd cap-----	3
	25 493 R1	SCREW, 1" hex-hd cap-----	2
	27 326 R1	WASHER, hardened-----	9
	56 658 D	WASHER-----	1
	25 520 R1	NUT-----	3
	445 096	PLUG, drain-----	1
(DT-414B for 530)			
(DT-466B for H-80B, 412, 412B and 540)			
1	686 761 C1	ADAPTER, tach. drive-----	1
3	674 021 C91	COVER w/two PIN, 680 482 C1, injection pump access---	1
	26 043 R1	SCREW, 3-3/4"-----	3
	26 678 R1	SCREW, 1"-----	2
	25 543 R1	WASHER, hardened-----	9
	26 057 R1	SCREW, 3-1/2"-----	1
	25 520 R1	NUT-----	3
	688 067 C1	PLUG, drain (DT-414B for 530 and DT-466B for 540)-	1
	59 658 D	WASHER (DT-414B for 530)-----	1
(DT-466B for 433B and 444B)			
1	686 761 C1	ADAPTER, tach. drive-----	1
3	674 021 C91	COVER w/two PIN, 680 481 C1, injection pump access---	1
	26 043 R1	SCREW, 3-3/4"-----	3
	25 493 R1	SCREW, 1"-----	1
	27 326 R1	WASHER, hardened-----	9
	26 057 R1	SCREW, 3-1/2"-----	1
	25 520 R1	NUT-----	3
	445 096	PLUG, drain-----	1

ACCESSORIES

TACHOMETER DRIVE AND RELATED PARTS (D-466, DT-466 and DT-466B for Galion Applicatons)



CG-5675

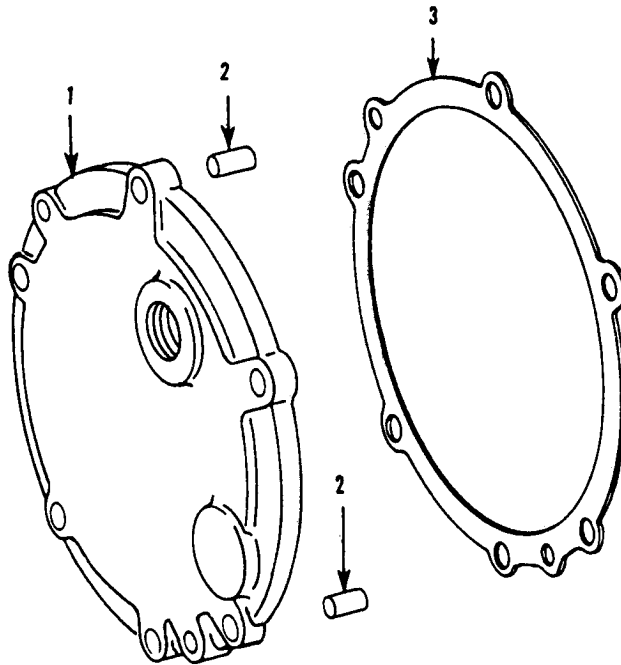
ACCESSORIES

Ref No	Part Number	Description	Quantity
TACHOMETER DRIVE AND RELATED PARTS (D-466, DT-466 and DT-466B for Galion Applications)			
1	686 761 C1	ADAPTER, tach. drive (Used w/HOURMETER) - # and up---	1
1	681 861 C1	TACHOMETER DRIVE - # and below----- Order the following parts:	1
	686 761 C1	ADAPTER-----	1
	674 021 C91	COVER-----	1
	683 079 C1	LOCKNUT-----	1
2	683 079 C1	LOCKNUT, seal-----	1
3	674 021 C91	COVER w/two PIN, 680 481 C1, injection pump access (Used w/HOURMETER) - # and up-----	1
3	675 814 C91	COVER w/two PIN, 680 481 C1, injection pump access (Used w/TACHOMETER) - # and below-----	1
	26 043 R1	SCREW, 3-3/4"-----	3
	25 493 R1	SCREW, 1"-----	2
	27 326 R1	WASHER, hardened-----	9
	26 057 R1	SCREW, 3-1/2"-----	1
	25 520 R1	NUT-----	3
	444 660	PLUG, drain-----	1
4	680 481 C1	PIN, dowel-----	2
5	675 816 C1	GASKET, injection pump access cover-----	1

ACCESSORIES

INJECTION PUMP ACCESS COVER

(DT-466C for TD-15C, 175C, 530, A600 and A606)
(DTI-466C for 540)



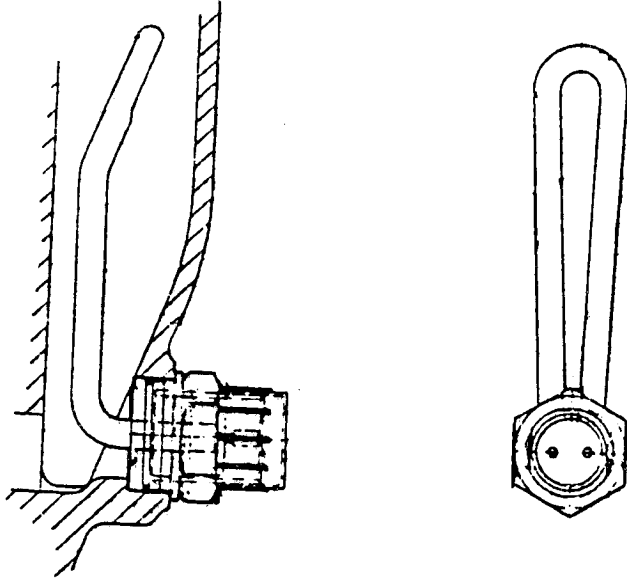
CG-5779

ACCESSORIES

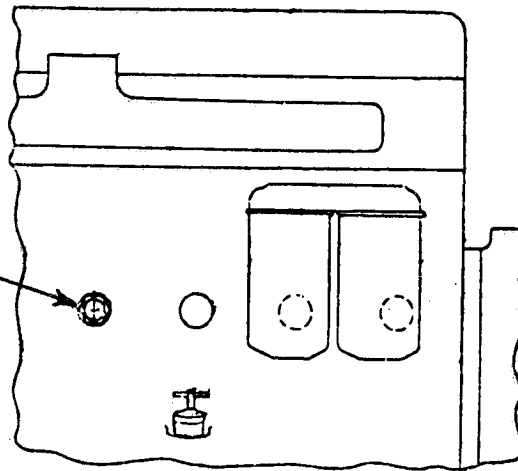
Ref No	Part Number	Description	Quantity
INJECTION PUMP ACCESS COVER			
(DT-466C for TD-15C, 175C, 530, A600 and A606)			
(DTI-466C for 540)			
1	674 021 C91	COVER w/two PIN, 680 481 C1, injection pump access (530 and 540)-----	1
1	675 815 C91	COVER w/two PIN, 680 481 C1, injection pump access (TD-15C, 175C, A600 and A606)-----	1
	688 067 C1	PLUG, access cover (530 and 540)-----	1
	445 096	PLUG, access cover (TD-15C, 175C, A600 and A606)--	1
	25 520 R1	NUT, 5/16"-----	3
	26 057 R1	SCREW, 5/16" x 3-1/2" hx-hd cap-----	1
	26 043 R1	SCREW, 5/16" x 3-3/4" hx-hd cap (530 and 540)-----	3
	26 678 R1	BOLT, 5/16" x 1" prevailing torque (530 and 540)--	2
	25 543 R1	WASHER, 5/16" hardened (530 and 540)-----	9
	26 586 R1	SCREW, 5/16" x 4-1/2" hex hd cap----- (TD-15C, 175C, A600 and A606)	3
	25 493 R1	SCREW, 5/16" x 1" hex-hd cap----- (TD-15C, 175C, A600 and A606)	2
	27 326 R1	WASHER, 5/16" hard. (TD-15C, 175C, A600 and A606)-	9
	59 658 D	WASHER, drain plug-----	1
2	680 481 C1	PIN, dowel-----	2
3	675 816 C1	GASKET, injection pump access cover-----	1

ACCESSORIES

ENGINE COOLANT HEATER



INSTALL AT THE 4th. FROM
THE REAR CUP PLUG.



ACCESSORIES

Ref No	Part Number	Description	Quantity
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ENGINE COOLANT HEATER

71	151	C91	PACKAGE, engine coolant heater-----	1
			Consists of:	
	NSS		HEATER (1250 W, 120V)-----	1
	NSS		CORD, electric adapter-----	1
	NSS		DIAGRAM, installation-----	1

ACCESSORIES

MEMORANDA

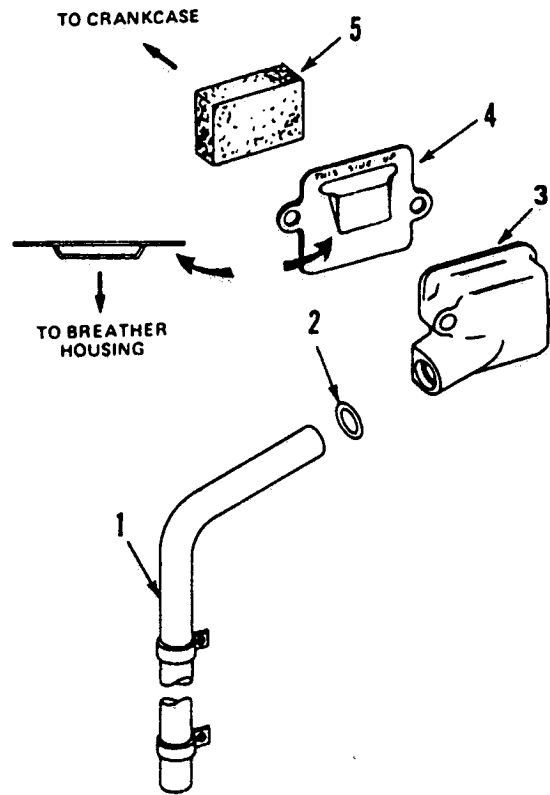
EMISSION CONTROLS

CRANKCASE VENTILATION (CRANKCASE MOUNTED)

(DT-414 - 140000 and below)

(D-466 - 501 and up)

(DT-466 - 38089 and below)



CG-6154

EMISSION CONTROLS

Ref No	Part Number	Description	Quantity
CRANKCASE VENTILATION (CRANKCASE MOUNTED)			
(DT-414 - 140000 and below)			
(D-466 - 501 and up)			
(DT-466 - 38089 and below)			
1	672 222 C2	TUBE, breather-----	1
	25 228 R1	SCREW, hex-hd cap-----	2
	130 340	WASHER-----	4
	25 927 R1	SCREW, 5/16" x 1-3/8"-----	1
	27 326 R1	WASHER, 5/16" hardened-----	4
	25 234 R1	SCREW, 5/16" x 2-1/4"-----	1
2	673 185 C1	"O" RING-----	1
3	675 409 C1	BODY, breather-----	1
	25 927 R1	SCREW, 1-3/8" hex-hd cap-----	1
	25 234 R1	SCREW, 2-1/4" hex-hd cap-----	1
	27 326 R1	WASHER, hardened-----	4
4	677 711 C1	BAFFLE, breather housing-----	1
5	675 494 C2	ELEMENT, breather-----	1

EMISSION CONTROLS

CRANKCASE VENTILATION (VALVE COVER MOUNTED)

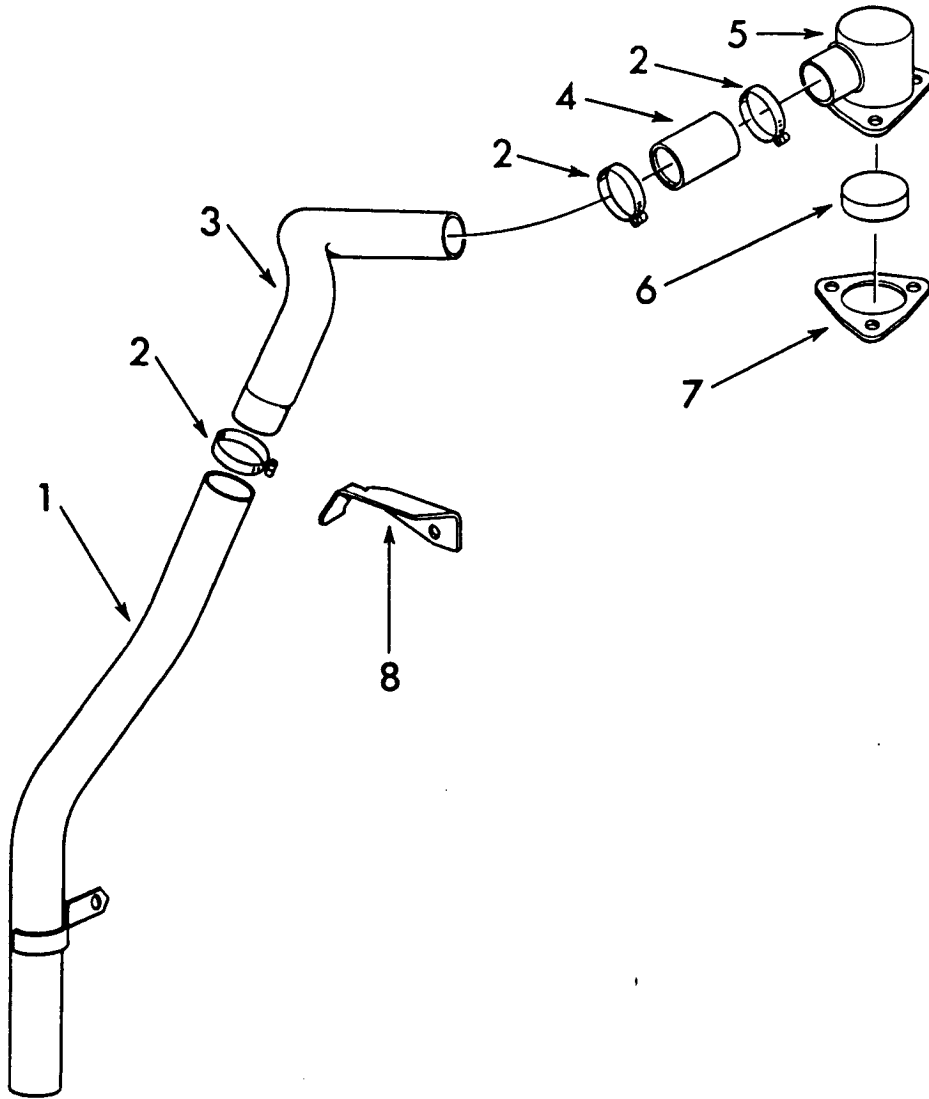
(DT-414B - 140001 and up)

(DT-466 - 38089 and up)

(DT-466B - 75001 and up)

(DT-466C and DTI-466C - 400001 and up)

(All Applications Except TD-15C and 175C)



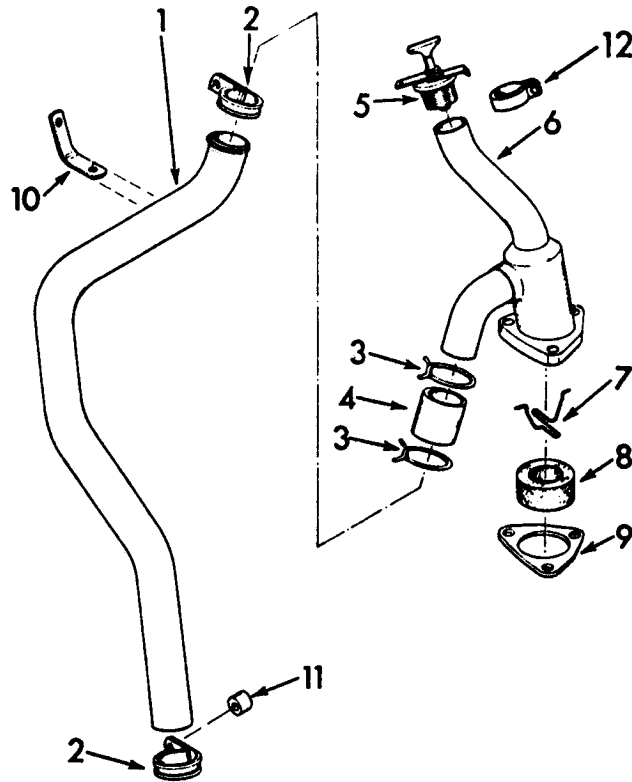
CG-5680

EMISSION CONTROLS

Ref No	Part Number	Description	Quantity
CRANKCASE VENTILATION (VALVE COVER MOUNTED)			
(DT-414B - 140001 and up)			
(DT-466 - 38089 and up)			
(DT-466B - 75001 and up)			
(DT-466C and DTI-466C - 400001 and up)			
(All Applications Except TD-15C and 175C)			
1	690 596 C1	TUBE, lower breather-----	1
	25 228 R1	SCREW, 5/16-18 x 3/4"-----	1
	27 326 R1	WASHER, 5/16" hardened-----	1
	116 120	WASHER, 5/16" lock-----	1
2	279 024 R91	CLAMP-----	3
3	690 457 C1	TUBE, upper breather-----	1
4	690 460 C1	HOSE-----	1
5	690 354 C1	HOUSING, breather-----	1
	691 644 C1	WASHER, rubber bonded-----	3
	25 077 R1	NUT, 5/16-18 nylock-----	3
6	690 233 C1	ELEMENT, breather-----	1
7	673 973 C4	GASKET, breather housing-----	1
8	690 458 C1	SUPPORT, breather tube-----	1
	24 840 R1	BOLT, 3/8-16 x 1" hex-hd-----	2
	25 896 R1	WASHER, 3/8" hardened-----	4
	115 093	WASHER, 3/8" lock-----	2
	25 228 R1	NUT, 3/4 NC hex-----	1
	27 326 R1	WASHER, 5/16" hardened-----	1
	116 120	WASHER, 5/16" lock-----	1

EMISSION CONTROLS

CRANKCASE VENTILATION (VALVE COVER MOUNTED) (DT-466B for TD-15C and 175C)



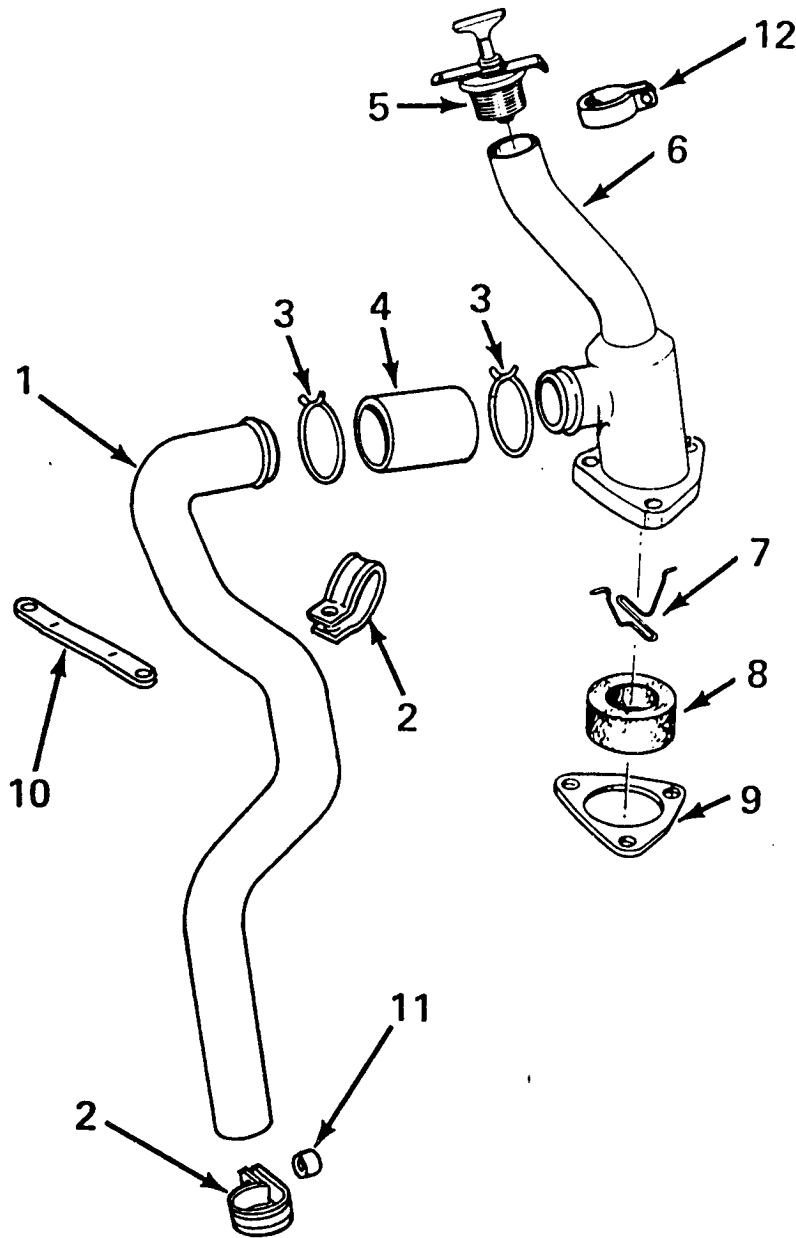
CG-5678A

EMISSION CONTROLS

Ref No	Part Number	Description	Quantity
CRANKCASE VENTILATION (VALVE COVER MOUNTED)			
(DT-466B for TD-15C and 175C)			
1	690 374 C1	TUBE, breather-----	1
2	299 276 C91	CLIP, breather-----	2
	101 896 R1	SCREW, 1-1/8"-----	1
	25 498 R1	SCREW, 1-5/8"-----	1
	25 896 R1	WASHER, 3/8" hardened-----	3
	115 093	WASHER, 3/8" lock-----	2
	25 522 R1	NUT, hex-----	1
3	610 320 C1	CLAMP, hose-----	2
4	18 466 DB	HOSE, breather tube-----	1
5	690 383 C1	CAP, oil filler-----	1
6	690 377 C1	HOUSING, oil filler and breather-----	1
	691 644 C1	WASHER, special-----	3
	25 077 R1	NUT, lock-----	3
7	690 373 C1	RETAINER, breather element-----	2
8	690 381 C1	ELEMENT, breather-----	1
9	673 973 C4	GASKET, breather housing-----	1
10	690 372 C1	BRACKET, breather tube-----	1
	140 483 H	SCREW, 1-1/4"-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	115 093	WASHER, 3/8" lock-----	1
11	686 900 C1	SPACER, breather tube clip-----	1
12	623 761 C1	CLAMP, lock-----	1

EMISSION CONTROLS

CRANKCASE VENTILATION (VALVE COVER MOUNTED) (DT-466C for TD-15C and 175C)



EMISSION CONTROLS

Ref No	Part Number	Description	Quantity
CRANKCASE VENTILATION (VALVE COVER MOUNTED)			
(DT-466C for TD-15C and 175C)			
1	1802 973 C1	TUBE, breather-----	1
2	299 276 C91	CLIP, breather-----	2
	101 896 R1	SCREW, 1-1/8"-----	1
	25 498 R1	SCREW, 1-5/8"-----	1
	25 896 R1	WASHER, 3/8" hardened-----	3
	115 093	WASHER, 3/8" lock-----	2
	25 522 R1	NUT, hex-----	1
3	610 320 C1	CLAMP, hose-----	2
4	18 466 DB	HOSE, breather tube-----	1
5	690 383 C1	CAP, oil filler-----	1
6	1802 967 C1	HOUSING w/SAFETY CHAIN, oil filler and breather-----	1
	691 644 C1	WASHER, special-----	3
	25 077 R1	NUT, lock-----	3
7	690 373 C1	RETAINER, breather element-----	2
8	690 381 C1	ELEMENT, breather-----	1
9	673 973 C4	GASKET, breather housing-----	1
10	1802 985 C1	BRACKET, breather tube-----	1
	140 483 H	SCREW, 1-1/4"-----	1
	25 896 R1	WASHER, 3/8" hardened-----	1
	115 093	WASHER, 3/8" lock-----	1
11	686 900 C1	SPACER, breather tube clip-----	1
12	623 761 C1	CLAMP, lock-----	1

EMISSION CONTROLS

MEMORANDA

NUMERICAL INDEX

