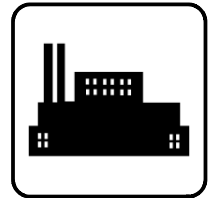


# Service Parts

Engine



Engine Model:

**Doosan 11.1 L**

Generator Models:

180/200REZX  
180/200RZX

**KOHLER®**

TP-6705 5/19a

# Table of Contents

Introduction .....	3
Numbering System Significance .....	3
Illustrations .....	3
How to Find Part Numbers .....	3
Recommend Stock List .....	4
1-1: Remote Air Filter .....	5
1-2: Remote Air Filter Mount .....	6
1-3: Cam Wheel Sensor .....	7
1-4: Electrical .....	8
1-5: Harness .....	9
1-6: Fuel System .....	10
1-7: E480 EPR .....	11
1-8: Fuel System Mount .....	12
1-9: Fuel Shutoff Valve .....	13
1-10: Front Drive .....	14
1-11: Fan .....	15
1-12: Fan Guard Assembly .....	16
1-13: Cooling System .....	17
1-14: CAC/Radiator Support .....	18
1-15: Serpentine Drive .....	19
1-16: Serpentine Drive (Retro Fit Kit) .....	20
1-17: Intake .....	21
1-18: Exhaust .....	22
1-19: Turbocharger .....	23
1-20: Catalyst .....	24
2-1: Cylinder Block .....	26
2-2: Timing Gear Case .....	28
2-3: Flywheel Housing .....	29
2-4: Driving System .....	30
2-5: Cylinder Head .....	32
2-6: Cylinder Head Cover .....	33
2-7: Timing System .....	34
2-8: Oil Pump .....	36
2-9: Oil Filter .....	37
2-10: Oil Cooler .....	38
2-11: Oil Pan .....	39
2-12: Cooling Water Pipe .....	40
2-13: Water Pump .....	42
2-14: Exhaust Manifold .....	43
2-15: Intake Manifold .....	44
2-16: Intercooler .....	45
2-17: Injection Pump Drive Gear .....	46
2-18: Alternator .....	47
2-19: Starter .....	48
2-20: Spark Plug .....	49

# Introduction

This manual lists service replacement parts for Doosan 11.1L engines.

Information in this publication represents data available at the time of print. Kohler Co. reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

This manual includes the following main sections:

**Table of Contents.** Lists the sections of the manual.

**Introduction (and other information sections).**

Contains introductory material about part numbers, illustrations, and hardware.

**Group Parts Lists.** List the part numbers of parts in the groups.

## Numbering System Significance

This manual uses the following numbering systems:

**Group Number.** A unique number representing a parts group needed to assemble a generator set function. For example, Group 1 is the Cylinder Head group.

**Part Number.** The part number identifies an individual assembly, subassembly, component, or accessory kit.

## Illustrations

Illustrations (or exploded-view drawings) best representing the widest range of variations accompany most groups in this manual. Illustrations do not depict all details and may not show all parts. Do not substitute illustrations for assembly or disassembly.

## How to Find Part Numbers

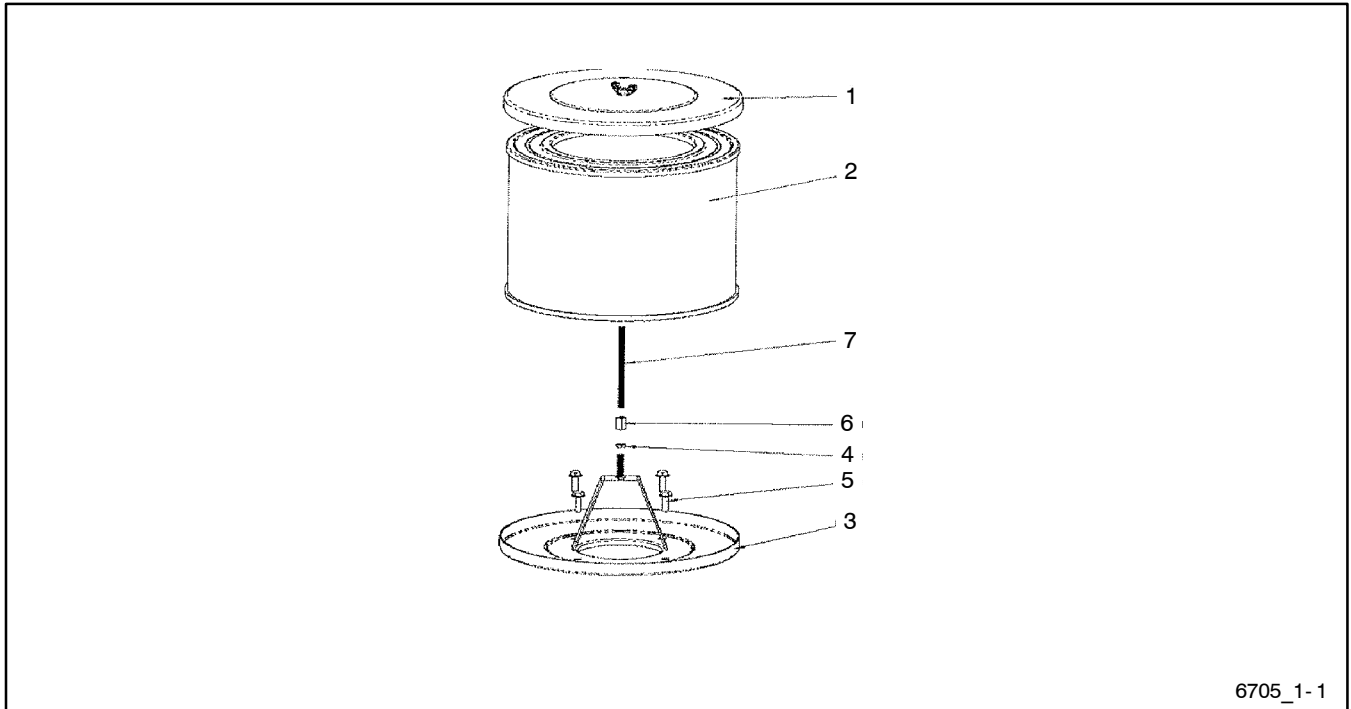
Use the following steps to locate a service replacement part.

1. **Identify the group** most likely to include the service part number.
2. **Page forward to locate the group** identified in step 1 or find the appropriate page in the Table of Contents.
3. **Find the part on the illustration** and note the item number of the part or **find the part description in the parts list.**

# Recommend Stocking List

Part Number	Description	Section
GM72308	Filter element, UL 10 in. x 10 in.	1-1: Remote Air Filter
GM72369	Gasket, E480 air inlet	1-2: Remote Air Filter Mount
GM29608	Sensor, coolant	1-4: Electrical
GM72304	Sensor, knock	1-4: Electrical
GM72302	Sensor, T map 3-bar	1-4: Electrical
GM72292	Sensor, O2	1-4: Electrical
GM72303	Sender, oil pressure	1-4: Electrical
GM39452	Connector, mag. Pickup	1-4: Electrical
GM72280	Sensor, magnetic M16 x 1.5	1-4: Electrical
GM69493	EPR assembly	1-7: E480 EPR
GM69497	Mixer	1-7: E480 EPR
GM72294	Valve, lock-off 2 in.	1-8: Lock Off
GM72291	Sensor, speed, timing whl	1-9: Front Drive
GM29586	Valve, throttle, 60 mm	1-14: Intake
GM29592	Gasket (manifold adapter)	1-14: Intake
GM72292	Sensor, O2	1-17: Catalyst
GM72120	Cylinder head	2-5: Cylinder Head
GM72121	Cylinder head	2-5: Cylinder Head
GM72130	Cylinder head gasket	2-5: Cylinder Head
GM72131	Cylinder head gasket	2-5: Cylinder Head
GM72132	Cylinder head cover gasket	2-6: Cylinder Head Cover
GM72161	Oil filter	2-9: Oil Filter
GM72194	Gasket	2-12: Cooling Water Pipe
GM72195	Gasket	2-12: Cooling Water Pipe
GM72196	Thermostat housing gasket	2-12: Cooling Water Pipe
GM72083	Gasket	2-12: Cooling Water Pipe
GM72079	Thermostat	2-12: Cooling Water Pipe
GM72193	Thermostat gasket	2-12: Cooling Water Pipe
GM72192	Water pump gasket	2-13: Water Pump
GM72185	Water pump housing	2-13: Water Pump
GM72201	Gasket	2-14: Exhaust Manifold
GM72202	Gasket	2-15: Intake Manifold
GM72084	Gasket	2-16: Intercooler
GM72208	Alternator	2-18: Alternator
GM72209	Starter	2-19: Starter
GM72204	Spark plug	2-20: Spark Plug

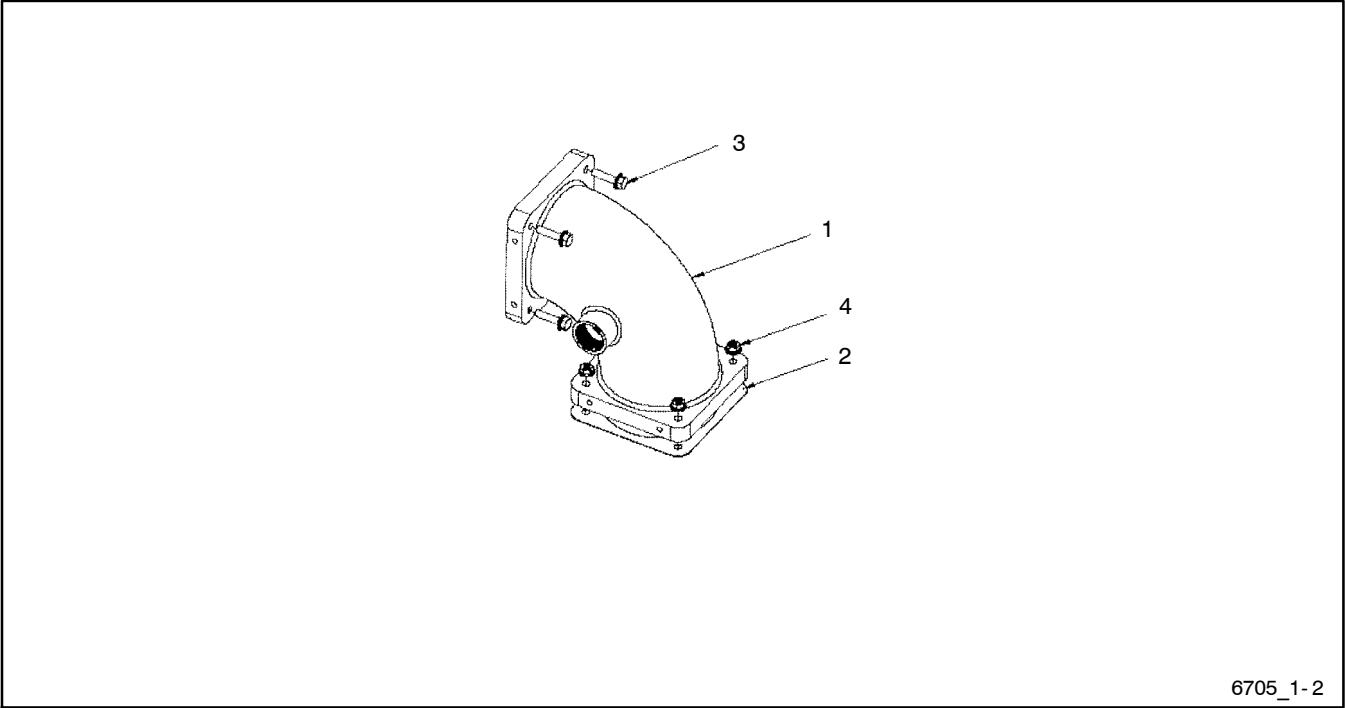
# 1- 1: Remote Air Filter



6705\_1-1

Item	Part No.	Description	Qty.
1	GM72307	Top, open filter	1
2	GM72308	Filter element, UL 10 in. x 10 in.	1
3	GM72309	Base, remote 10 in. air filter	1
4	GM28959	Nut, M6-1.0	1
5	GM72318	Bolt, M6-1.0 x 25 flange head	4
6	GM72376	Extender, threaded rod M6-1.0	1
7	GM72377	Rod, threaded M6-1.0 x 130mm	1

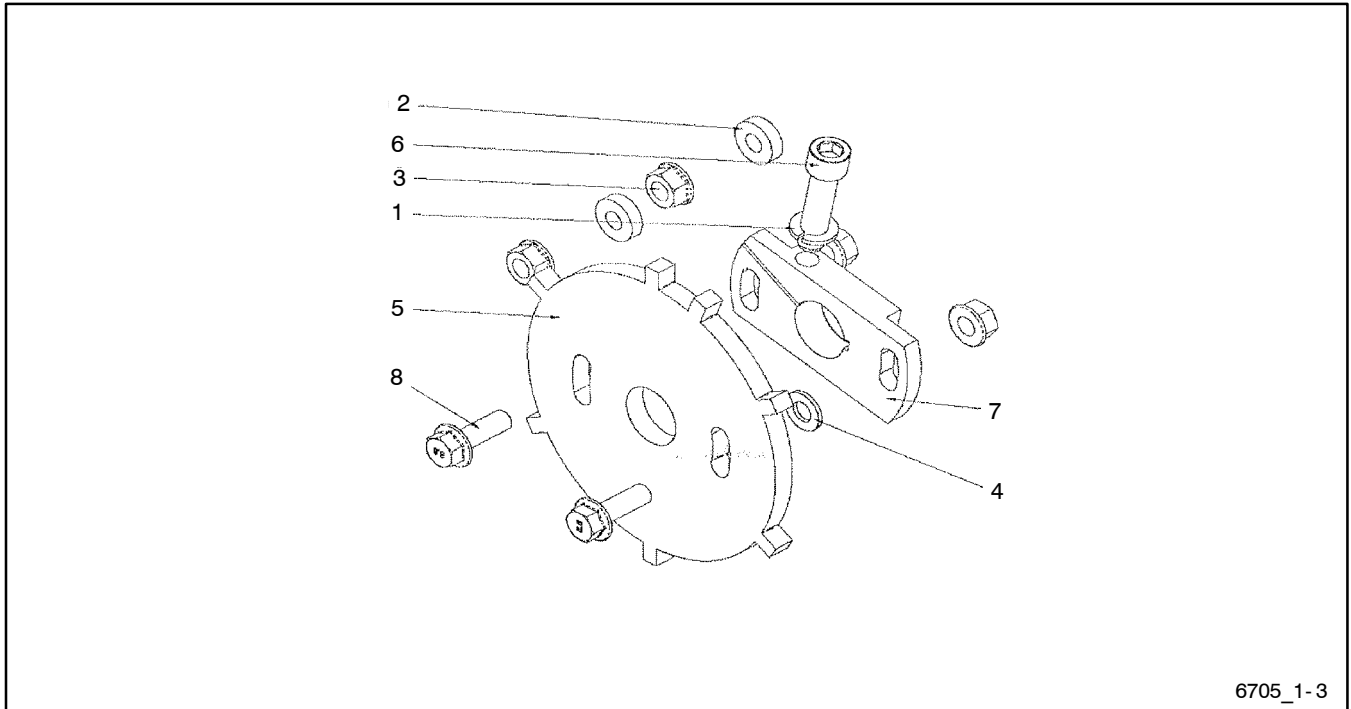
# 1-2: Remote Air Filter Mount



6705\_1-2

Item	Part No.	Description	Qty.
1	GM72368	Adaptor, 90 air cleaner to mixer	1
2	GM72369	Gasket, E480 air inlet	1
3	GM72318	Bolt, M6-1.0 x 25 flange head	4
4	GM72328	Nut	4

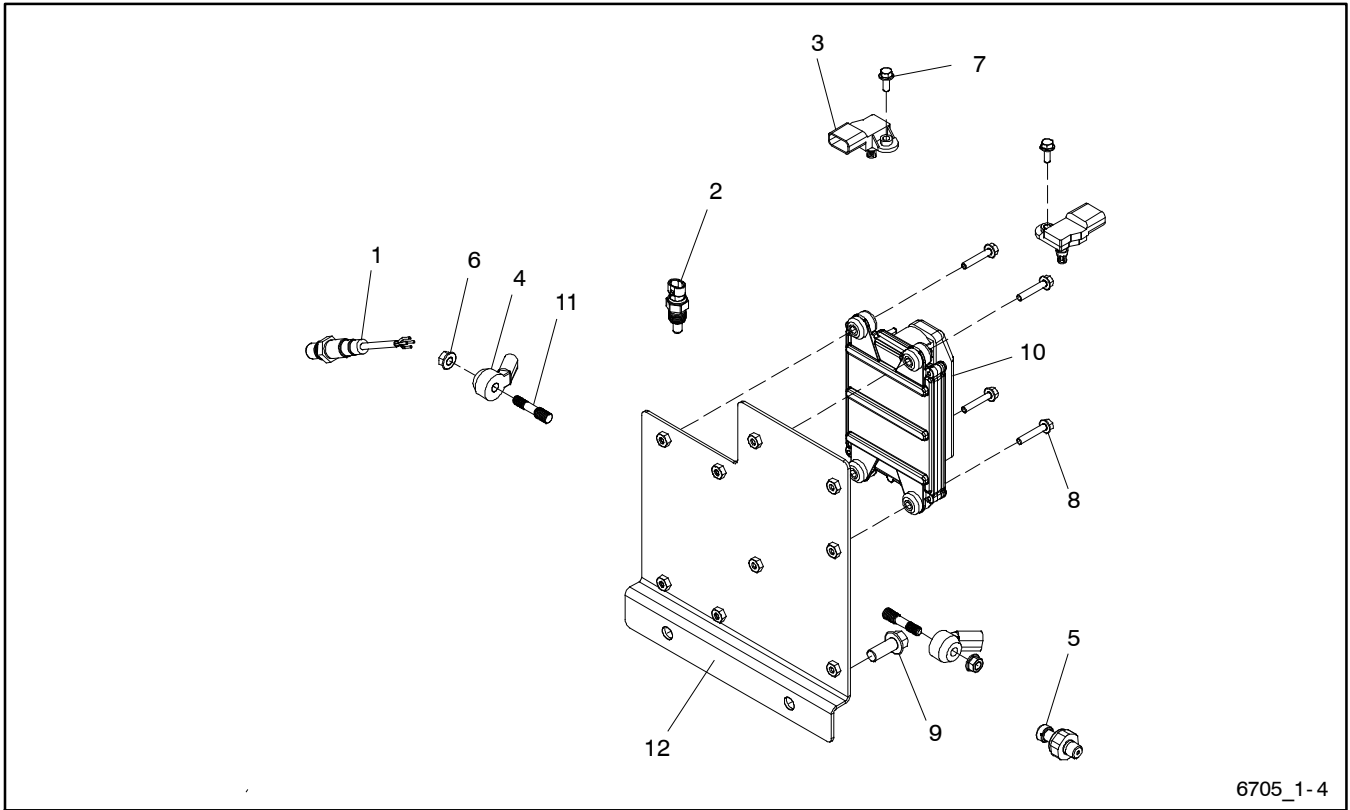
# 1-3: Cam Wheel Sensor



6705\_1-3

Item	Part No.	Description	Qty.
1	GM72282	Washer, lock M12	1
2	GM16225	Washer, flat 3/8" (hardened)	2
3	GM23739	Nut, M10 x 1.5	4
4	GM72317	Washer, flat M10	2
5	GM72332	Wheel, cam inline series	1
6	GM72378	Bolt, M12-1.75 x 50 schs	1
7	GM72380	Drive adaptor	1
8	GM72382	Bolt	2

# 1-4: Electrical

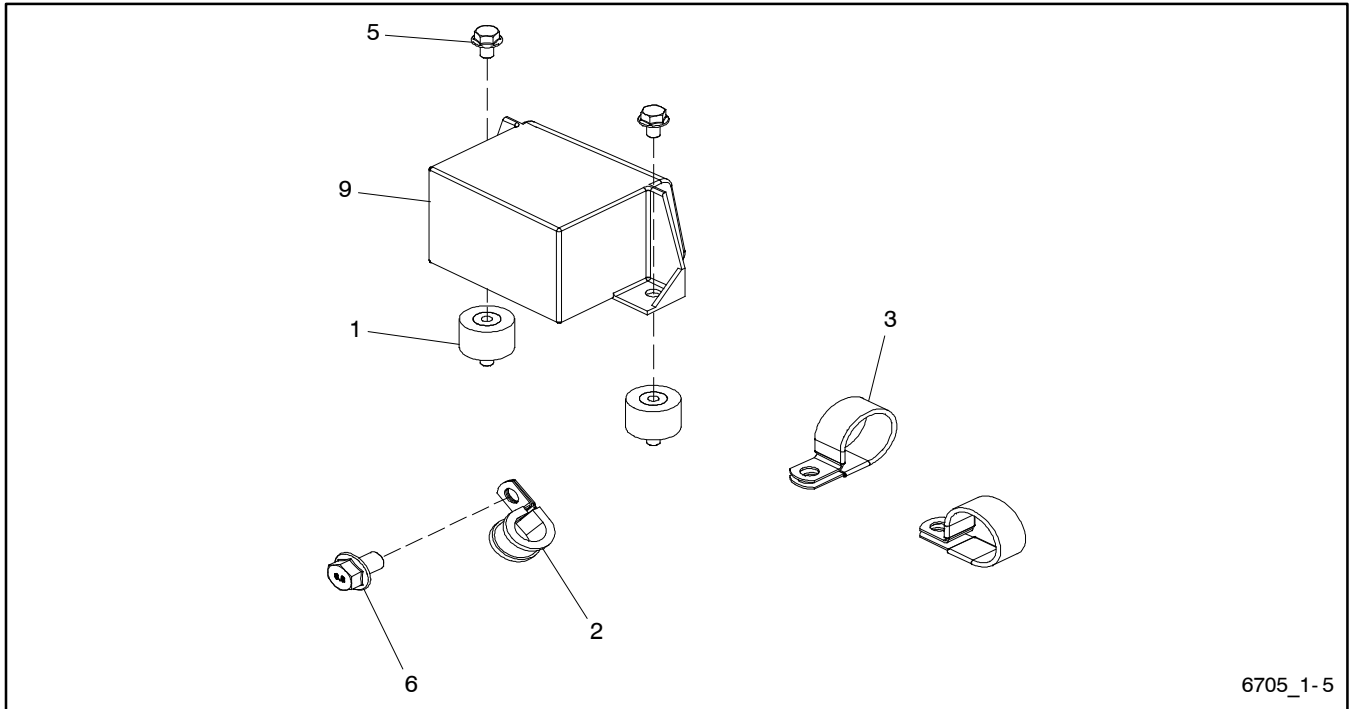


6705\_1-4

Item	Part No.	Description	Qty.
1	GM72292	O2 Sensor (in kit 3, 4, 5)	1
1	GM107233	O2 Sensor (4G)	1
2	GM29608	Coolant Sensor	1
3	GM72302	TMAP Sensor	2
4	GM72304	Knock Sensor	2
5	GM72303	Oil Pressure Sensor	1
6	GM72312	Nut	2
7	GM87613	Bolt	2
8	GM72320	Bolt	4
9	GM72375	Bolt	2
10	GM107249	Programmed ECU Standby (4G)	1
10	GM107250	Programmed ECU Prime (4G)	1
10	GM72381	Programmed ECU Standby	1
10	GM107251	Programmed ECU Prime	2
11	GM72347	Stud	1
12	GM107238	Bracket	2
13	GM107213	Washer (not shown)	2



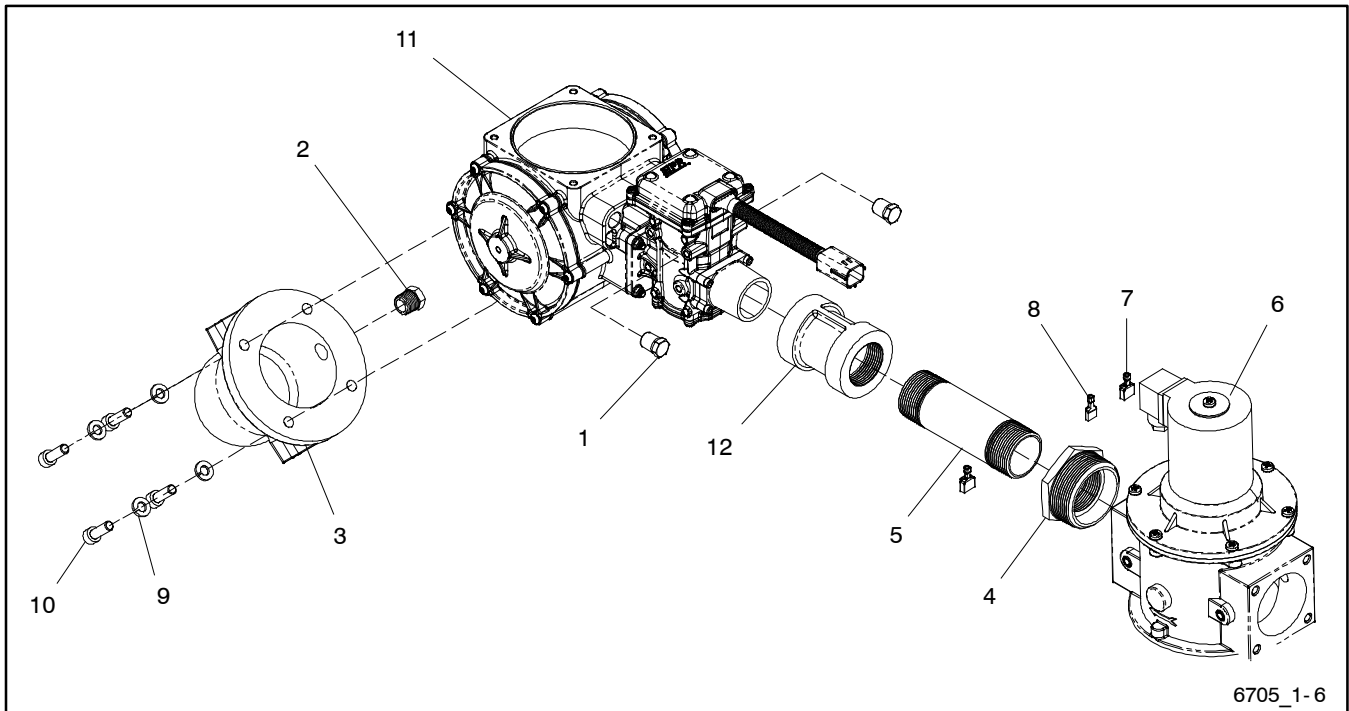
# 1-5: Harness



6705\_1-5

Item	Part No.	Description	Qty.
1	GM72290	Isolator	2
2	GM107207	Clamp	1
3	GM72293	Clamp	2
4	GM72312	Nut (Not shown)	1
5	GM107217	Bolt	2
6	GM101438	Bolt	1
8	GM107226	Ignition Harness (Not shown)	1
9	GM107228	Master Harness (Not shown)	1
9	GM107235	Master Harness (4G) (Not shown)	1
	GM107205	Harness Parts 24V Relay-Rectangle (Not shown)	1
	GM107206	24V Relay-Square (Not shown)	1
	GM107203	50 Amp Mini Fuse (Not shown)	1
	GM107204	5 Amp Mini Fuse (Not shown)	2
	GM58923	20 Amp Mini Fuse (Not shown)	2
	GM64147	Diagnostic Ecom Cable (Not shown)	1

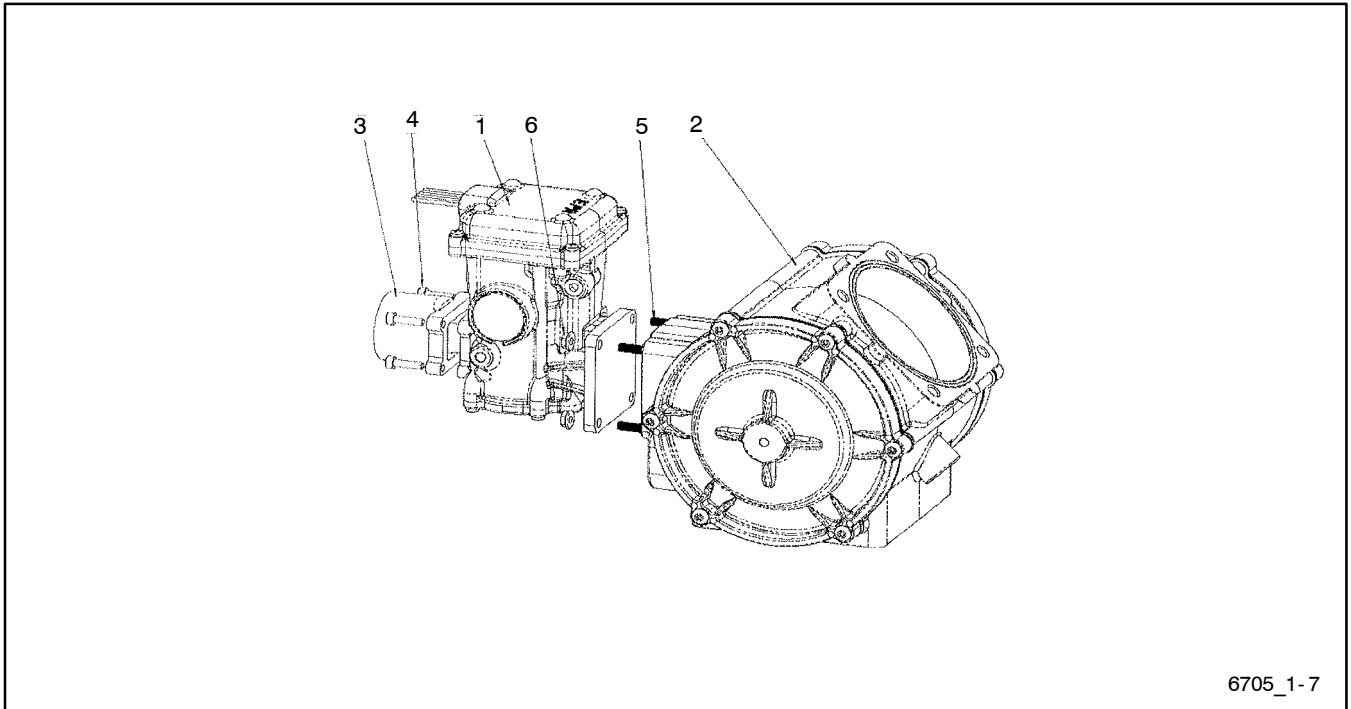
# 1-6: Fuel System



6705\_1-6

Item	Part No.	Description	Qty.
1	GM38939	Plug	2
2	GM24342	Plug	1
3	GM69502	Elbow	1
3	GM107247	Elbow (4G)	1
4	GM72296	Bushing	1
5	GM107208	Nipple	1
6	GM107209	Lock Off Valve	1
7	GM107210	Termnal	2
8	GM107211	Termnal	1
9	GM69521	Washer	4
10	GM69522	Bolt	4
11	GM72329	EPR Kit	1
12	GM72346	Coupler	1

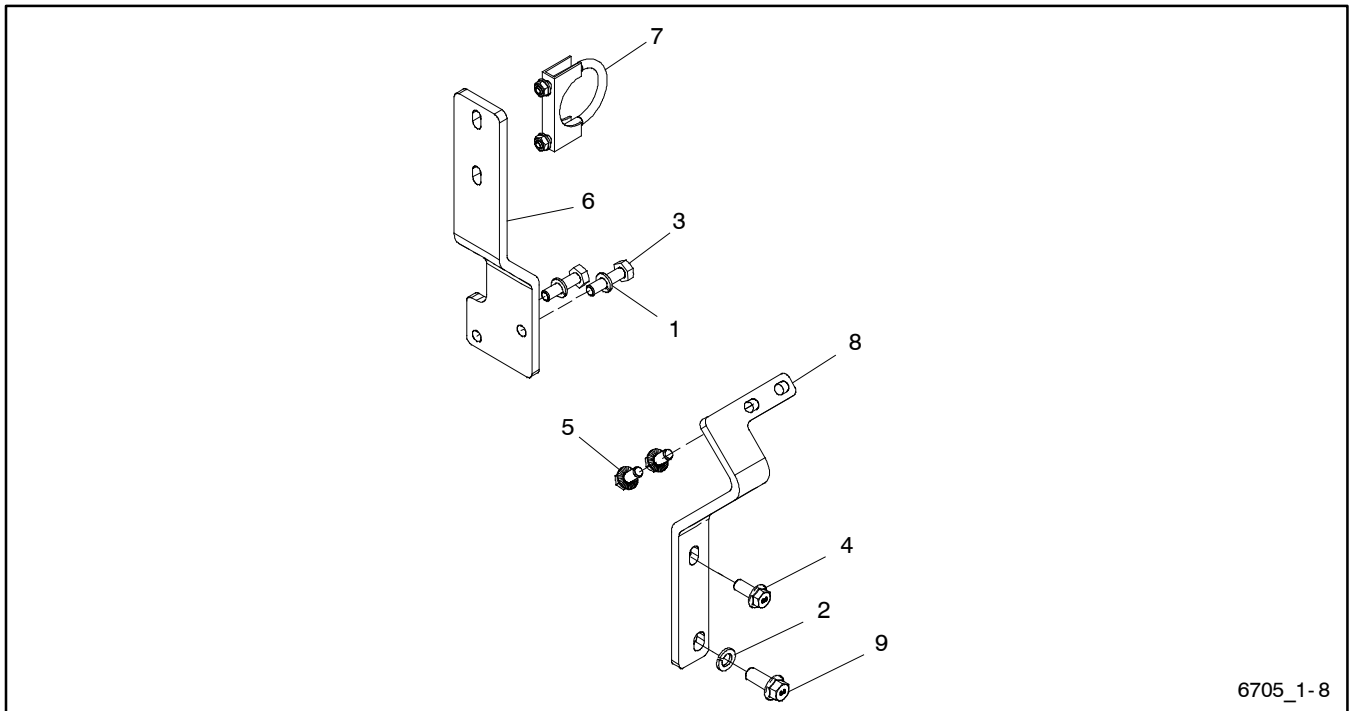
# 1-7: E480 EPR



6705\_1-7

Item	Part No.	Description	Qty.
1	GM69493	EPR assembly	1
2	GM69497	Mixer	1
3	GM69509	Adapter, EPR, 1 1/4 NPT	1
4	GM69524	Bolt, M4 x .70 x 16 sht hd	4
5	GM72323	Stud, M5-.80 x 25	4
6	GM72324	Nut, M5-.80 flange	4

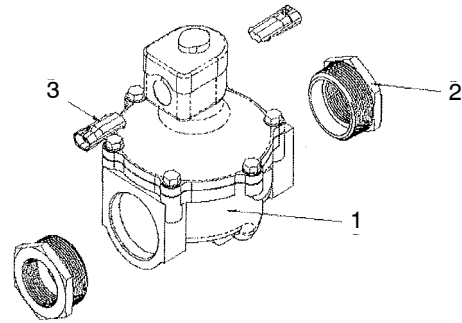
# 1-8: Fuel System Mount



6705\_1-8

Item	Part No.	Description	Qty.
1	GM72313	Washer	2
2	GM107213	Washer	1
3	GM73559	Bolt	2
4	GM88421	Bolt	1
5	GM107218	Bolt	2
6	GM72360	Support Bracket	1
6	GM107232	Support Bracket (4G)	1
7	GM72363	U- Bolt	1
8	GM72365	Mixer Support Bracket	1
8	GM107231	Mixer Support Bracket (4G)	1
9	GM72375	Bolt	1
10	GM107216	Washer (Not shown)	2

# 1-9: Fuel Shutoff Valve



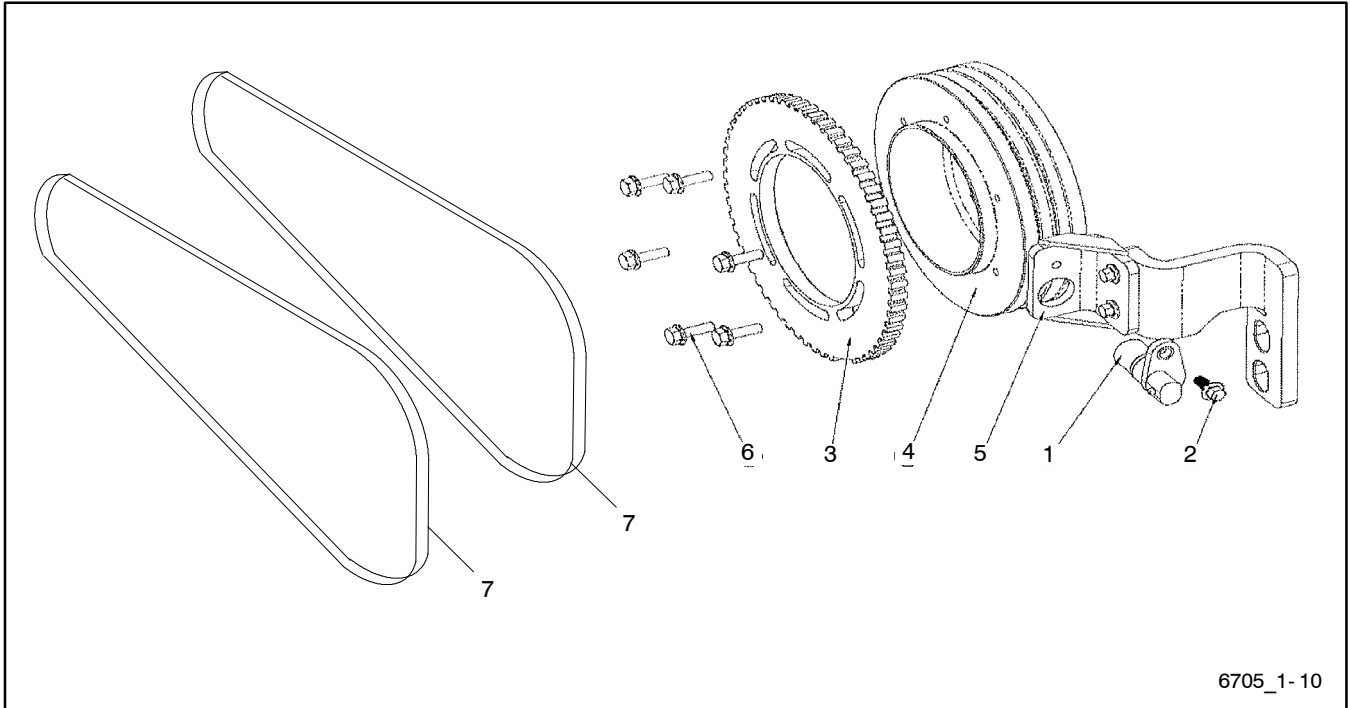
- 4 Terminal
- 5 Seal
- 6 Connector
- 7 Eyelet

6705\_1-9

Item	Part No.	Description	Qty.
1	GM72294	Valve, lock-off 2 in.	1
2	GM72296	Bushing, reducer 2 in. x 1 1/4 in.	2
3	GM72299	Connector, fuel lockoff mp 2 pin	2
4	GM72297	Terminal, Metripak male conn.	4
5	GM72298	Seal, connector 16 ga wire	4
6	GM72300	Lock, fuel lock off connector	2
7	GM72301	Eyelet M8	1

# 1-10: Front Drive

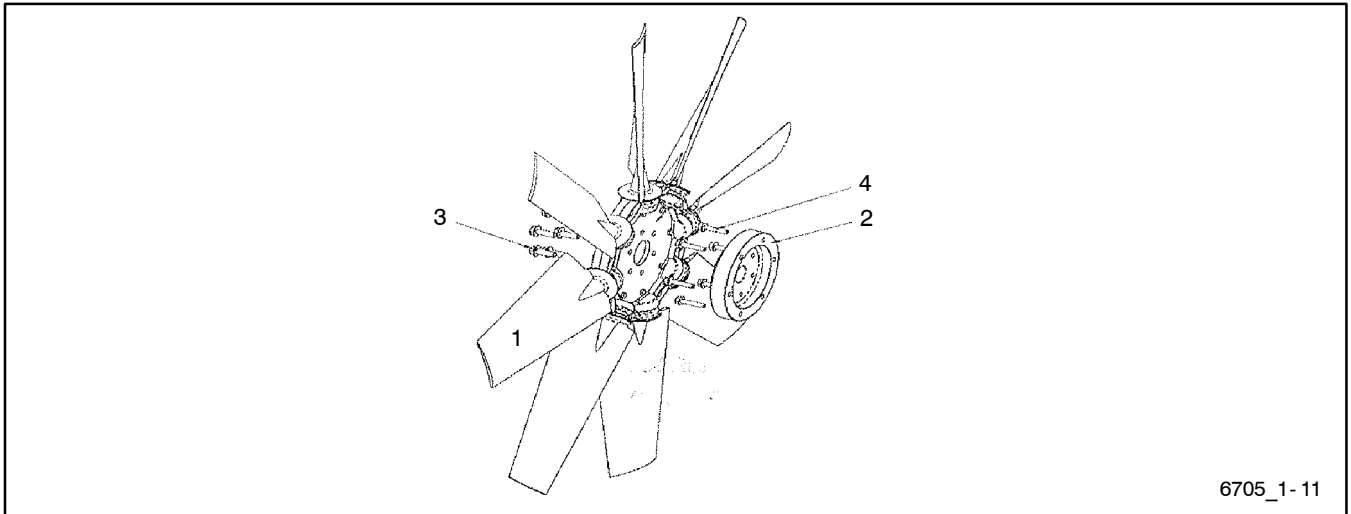
Earlier V-Belt System. See 1-16 Serpentine Drive Front End Drive Retrofit Kit.



6705\_1-10

Item	Part No.	Description	Qty.
1	GM72291	Sensor, speed, timing whl	1
2	GM72319	Bolt, M6-1.0 x 15 flange head	1
3	GM72331	Crank wheel	1
4	GM72351	Pulley, crankshaft	1
5	GM72352	Bracket, crank sensor mount	1
6	GM72327	Bolt, M6-1.0 x 20 flange head	6
7	GM92038	Belt	2

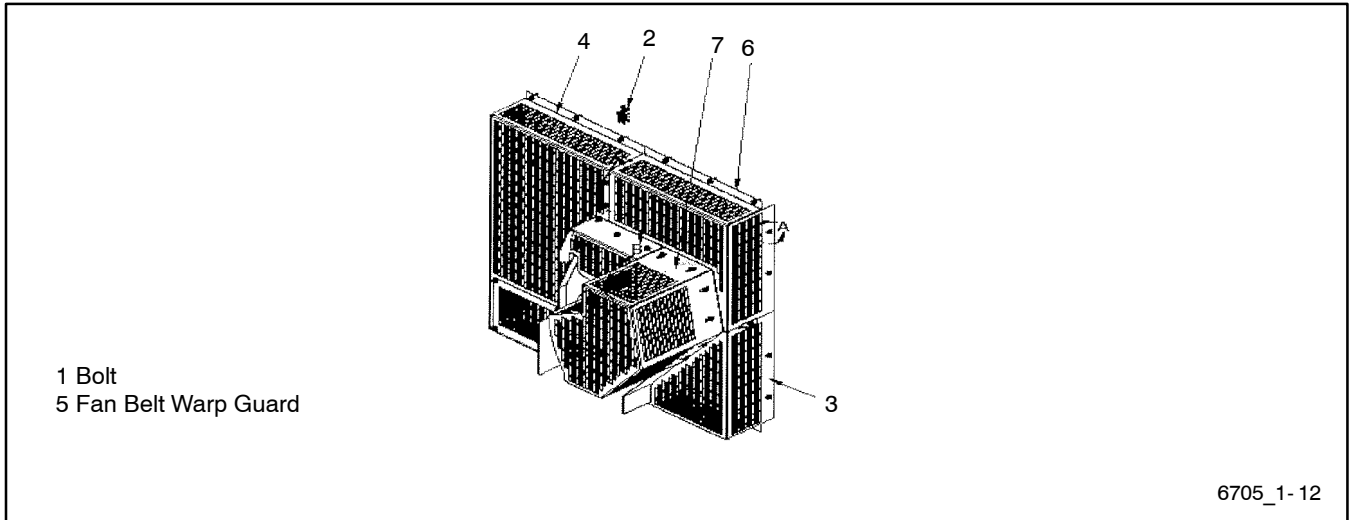
# 1-11: Fan



6705\_1-11

Item	Part No.	Description	Qty.
1	GM72335	Fan	1
2	GM72333	Spacer, fan	1
3	GM72283	Bolt, M10-1.50 x 30 flng hd	6
4	GM72383	Bolt M8-1.25 x 40 flange gr8.8	6

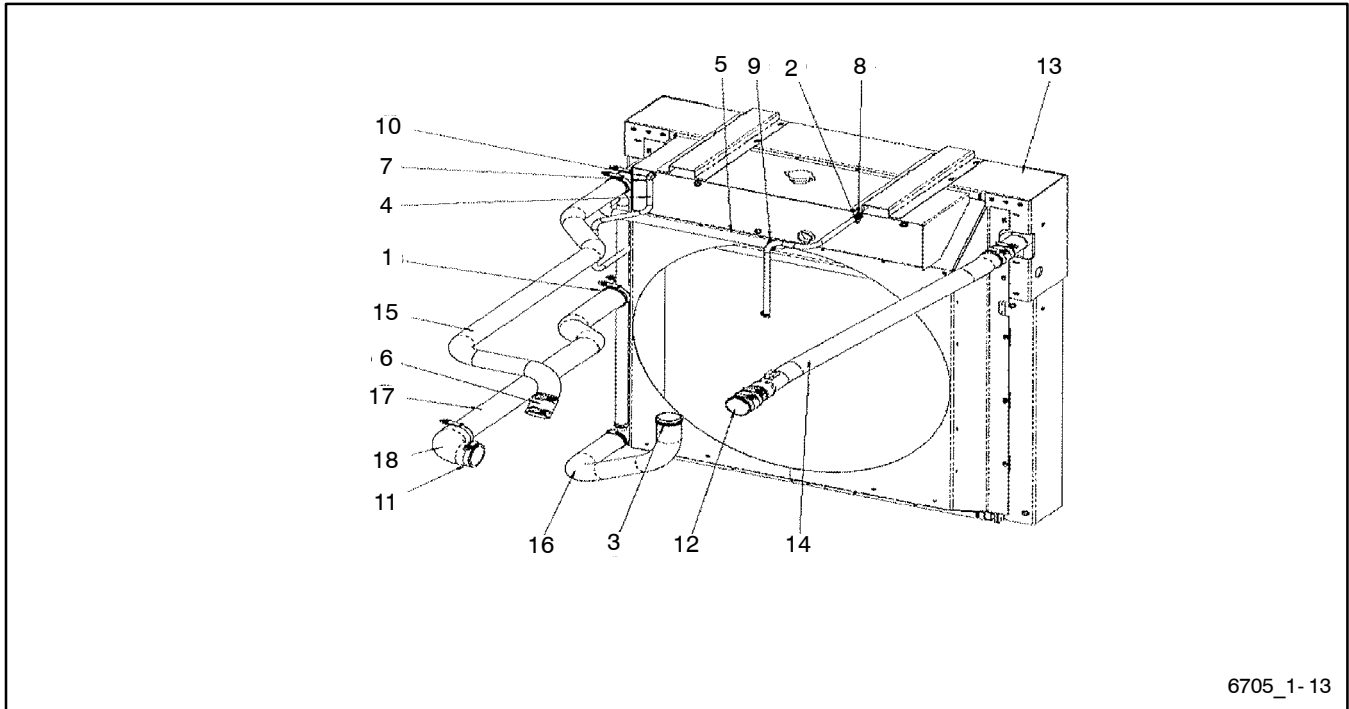
# 1- 12: Fan Guard Assembly



Item	Part No.	Description	Qty.
1	GM72321	Bolt, M8-1.25 x 20 flange head	32
2	GM72327	Bolt, M6-1.0 x 20 flange head	7
3	GM72336	Guard, fan bottom right	1
4	GM72337	Guard, fan belt left	1
5	GM72342	Guard, fan/belt wrap	1
6	GM72343	Guard, fan top right	1
7	GM72344	Guard, alt & timing wheel	1



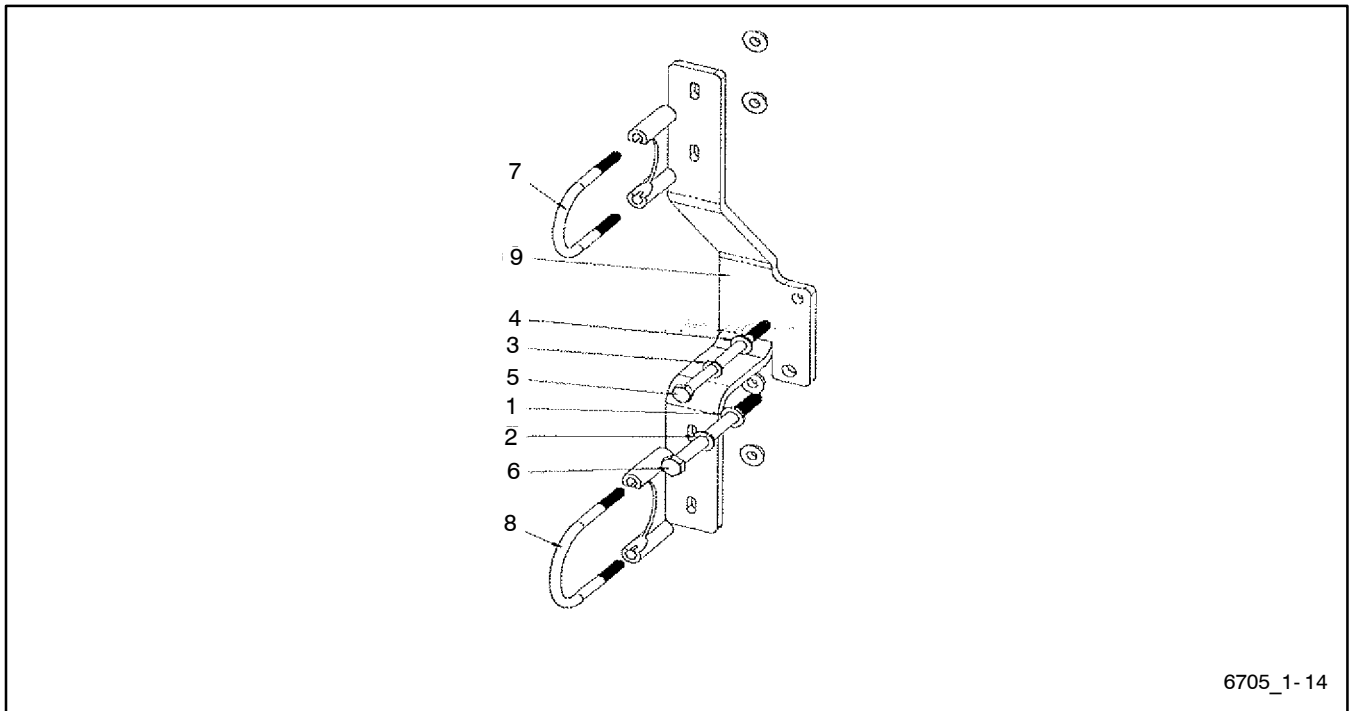
# 1-13: Cooling System



6705\_1-13

Item	Part No.	Description	Qty.
1	GM72279	Hose, silicone 3 in. ID x 3 in. lg	1
2	GM16144	Clamp, hose 1"	2
3	GM28888	Clamp, hose, 3 in.	2
4	GM39417	Hose, heater 3/8 in. ID, 48 in.	1
5	GM72286	Hose, heater 1 in. ID 100 in.	1
6	GM72287	Hose, sil 2.5 ID x 3 lined (black)	3
7	GM42578	Clamp, 1/2 in. (M-6)	2
8	GM72289	Ftg, 3/8 in. hse brb x 1/4 in. mpt	2
9	GM28895	Clamp, hose, 13/16-1 1/2 in.	2
10	GM38928	Fitting, intake manifold vac	1
11	GM29601	Clamp, 2 3/4-3 5/8 in.	12
12	GM66241	Hose, silicone 2 3/4 ID x 3 in.	2
13	GM72334	Radiator	1
14	GM72338	Tube, CAC to intake	1
15	GM72339	Tube, comp to CAC left	1
16	GM72340	Hose, radiator outlet	1
17	GM72341	Pipe, radiator inlet	1
18	GM72366	Hose, coolant 3 in. elbow 90	1

# 1- 14: CAC/Radiator Support

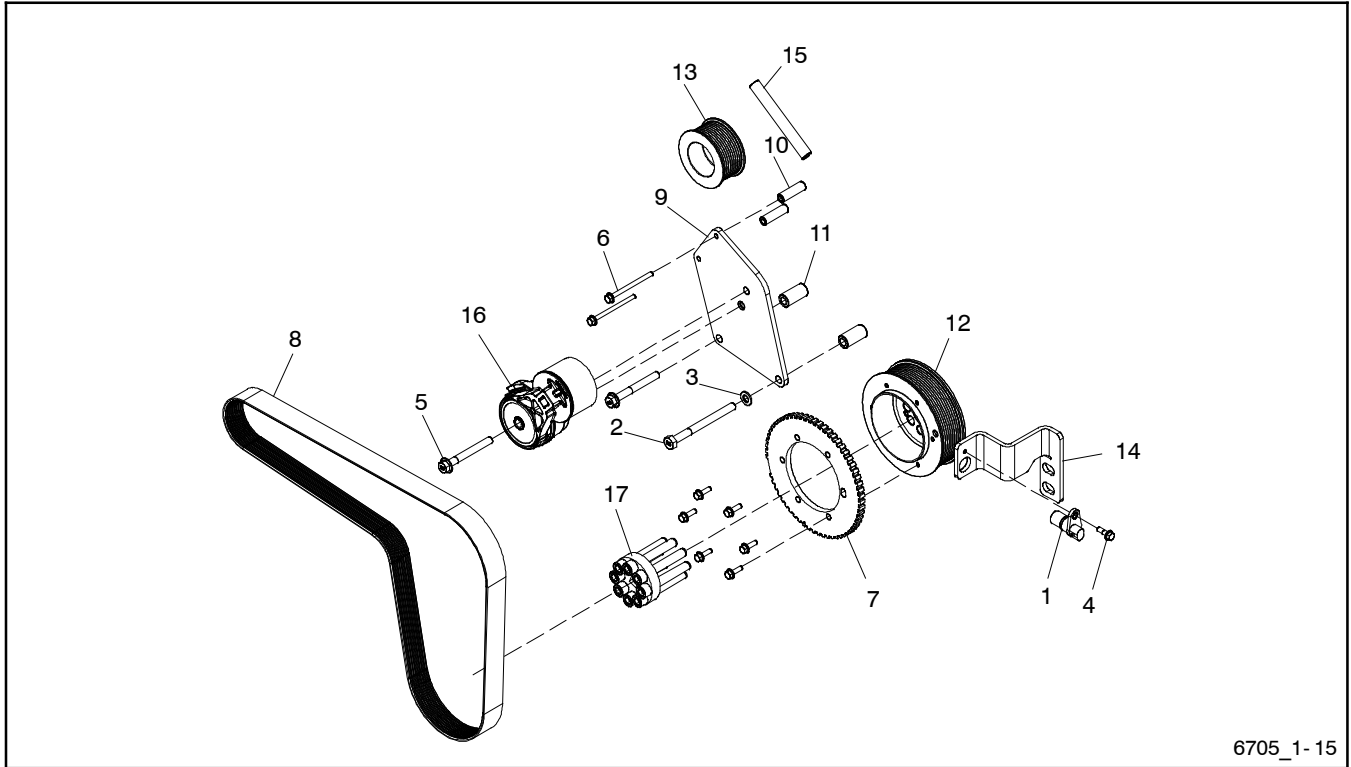


6705\_1- 14

Item	Part No.	Description	Qty.
1	GM72285	Washer, flat M12 hardened	1
2	GM72282	Washer, lock M12	1
3	GM72313	Washer, lock M10	1
4	GM72317	Washer, flat M10	1
5	GM72325	Bolt, M10-1.5 x 150 hex head	1
6	GM72326	Bolt	1
7	GM72349	Clamp, U-bolt 2.5 in. 3/8-16	1
8	GM72358	U-bolt, 3 in. x 3/8-16 clamping	1
9	GM72361	Bracket, CAC pipe support	1

# 1- 15: Serpentine Drive

Later serpentine belt system.

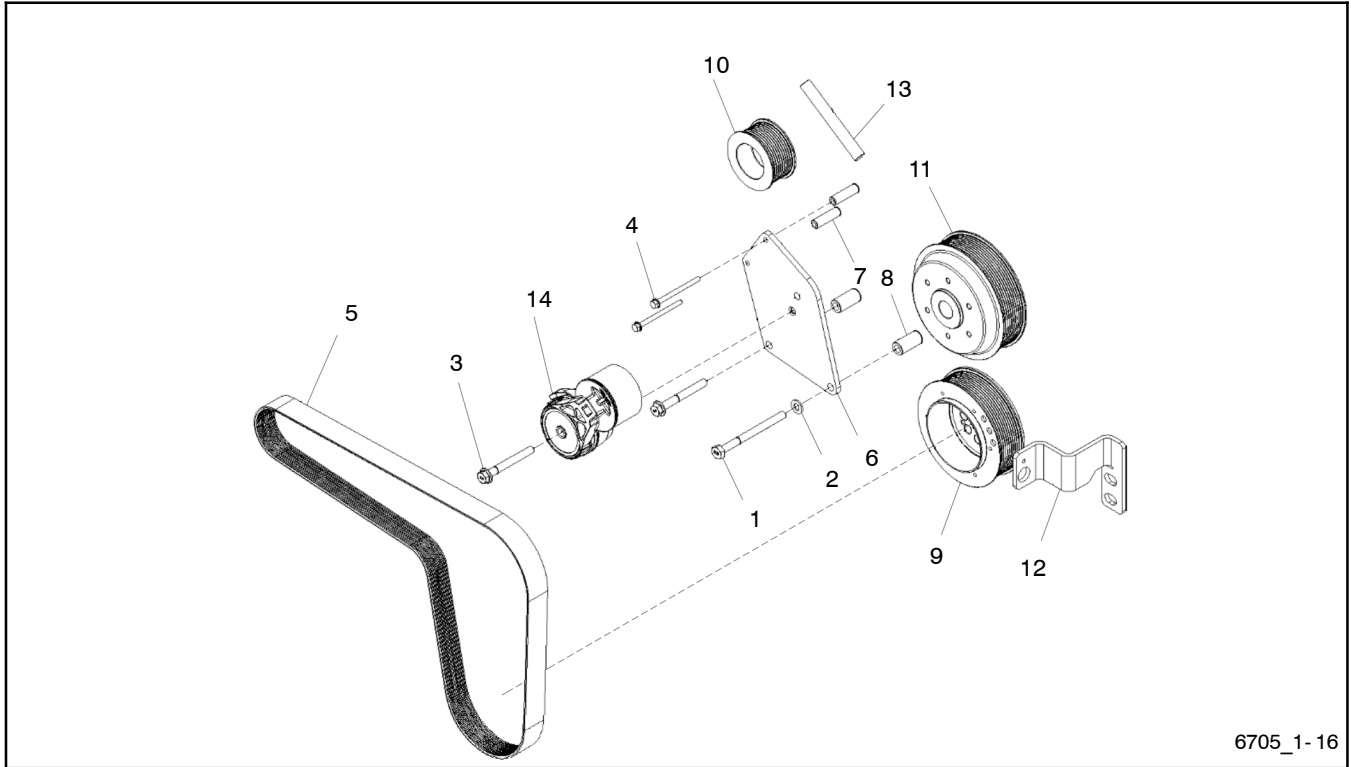


6705\_1-15

Item	Part No.	Description	Qty.
1	GM107212	Speed Sensor	1
2	GM23740	Bolt	1
3	GM72317	Washer	1
4	GM72327	Bolt	7
5	GM107220	Bolt	2
6	GM107221	Bolt	2
7	GM107224	Timing Wheel	1
8	GM107234	Belt	1
9	GM107239	Tensioner Mount	1
10	GM107240	Spacer	2
11	GM107241	Spacer	2
12	GM107242	Crank Pulley	1
13	GM107243	Alternator Pulley	1
14	GM107244	Bracket	1
15	GM107245	Sleeve	1
16	GM107246	Tensioner	1
17	GM107248	Square Drive	1
18	GM87613	Screw (not shown)	1

# 1- 16: Serpentine Drive (Retro Fit Kit)

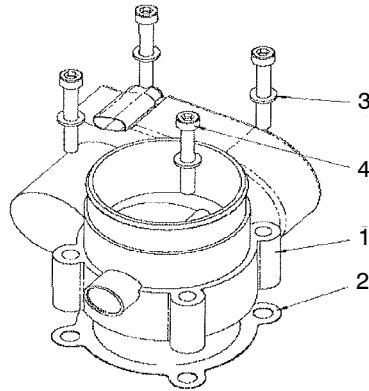
Converts the earlier V-Belt system to serpentine belt system.



6705\_1-16

Item	Part No.	Description	Qty.
1	GM107264	Complete Kit	1
1	GM23740	Bolt	1
2	GM72317	Washer, Flat	1
3	GM107220	Bolt, Flange	2
4	GM107221	Bolt, Flange	2
5	GM107234	Belt, Drive	1
6	GM107239	Mount, Tensioner	1
7	GM107240	Spacer, Tensioner Mount	2
8	GM107241	Spacer, Tensioner Mount	2
9	GM107242	Pulley, Crank	1
10	GM107243	Pulley, Alternator	1
11	GM107265	Pulley, Fan	1
12	GM107244	Bracket, Crank Sensor	1
13	GM107245	Sleeve, Alternator Spacer	1
14	GM107246	Tensioner, Pulley	1

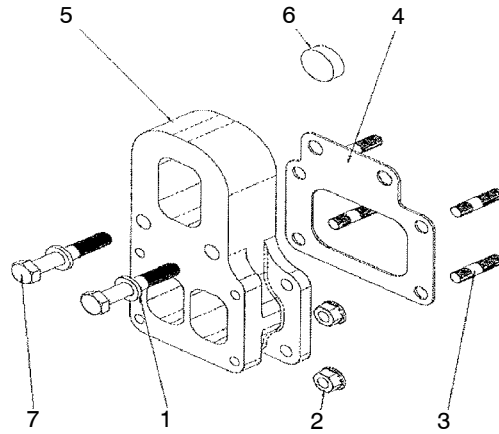
# 1-17: Intake



6705\_1-17

Item	Part No.	Description	Qty.
1	GM29586	Valve, throttle, 60 mm	1
2	GM29592	Gasket (manifold adapter)	1
3	GM28963	Washer, lock M6	4
4	GM72316	Bolt, M6-1.0 x 50 skt hd	4

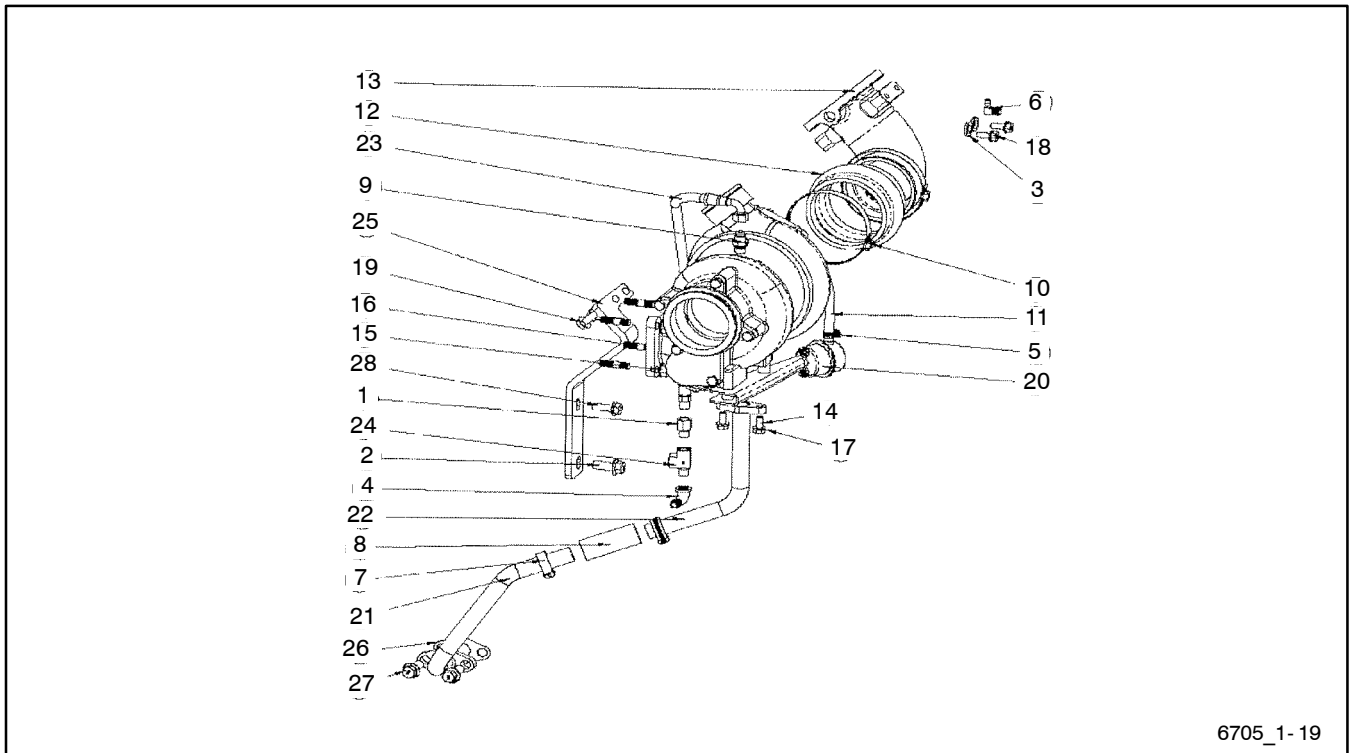
# 1- 18: Exhaust



6705\_1-18

Item	Part No.	Description	Qty.
1	GM72285	Washer, flat M12 hardened	2
2	GM23739	Nut, M10 x 1.5	4
3	GM72315	Stud, M10-1.50 x 40, grade 8.8	4
4	GM72353	Gasket, ex-turbo adapter	1
5	GM72354	Adapter, manifold to turbo	1
6	GM72362	Plug, exhaust manifold	1
7	GM72374	Bolt, M12-1.5 x 70mm hex head zinc 12.9	2

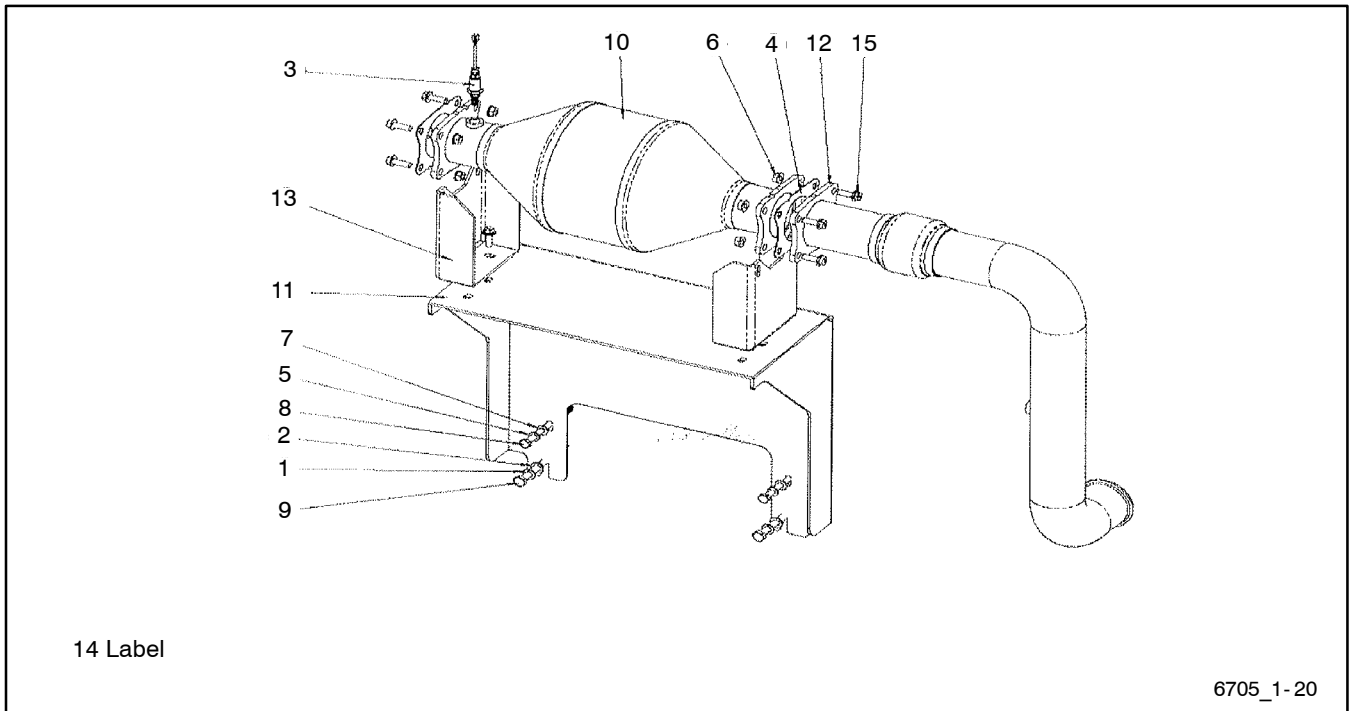
# 1-19: Turbocharger



6705\_1-19

Item	Part No.	Description	Qty.
1	GM72281	Fitting, M12 male x 1/4 npt female	1
2	GM72284	Bolt, M12-1.75 x 30 flng hd	1
3	GM72285	Washer, flat M12 hardened	2
4	GM72288	Ftg, 1/4npt 90 elb, m-f, brass	1
5	GM28892	Clamp, 3/8 in. (M4)	2
6	GM29583	Ftg., 1/8 MPT x 1/4 90 deg. elb.	2
7	GM28893	Clamp, hose, 1 1/4 in.	2
8	GM28901	Hose, oil drain, 7/8 in. ID, 3 in.	3
9	GM28903	Fitting, oil supply turbo	1
10	GM28915	Clamp, hose, 5 in.	2
11	GM28916	Hose, 1/4 in. ID x 1/2 in OD	6
12	GM66214	Hose, hump, intake 4 x 4	1
13	GM69502	Elbow, mixer to turbo	1
14	GM72311	Bolt, M8-1.25 x 20 hxhd gr 8.8	2
15	GM23739	Nut, M10 x 1.5	4
16	GM72315	Stud, M10-1.50 x 40, grade 8.8	4
17	GM69521	Washer, M8	6
18	GM72321	Bolt, M8-1.25 x 20 flange head	2
19	GM72322	Bolt, 3/8-24 x 1 flnge hd gr 5	2
20	GM72345	Turbocharger	2
21	GM72355	Tube, oil drain lower	1
22	GM72356	Tube, turbo oil return upper	1
23	GM72357	Hose, Teflon 28 in.	1
24	GM72364	Tee, 1/4npt street	1
25	GM72365	Bracket, mixer support	1
26	GM72370	Gasket, oil return	1
27	GM72375	Bolt, M12-1.5 x 25 hex 8.8	2
28	GM72283	Bolt, M10-1.50 x 30 flng hd	1

# 1-20: Catalyst



14 Label

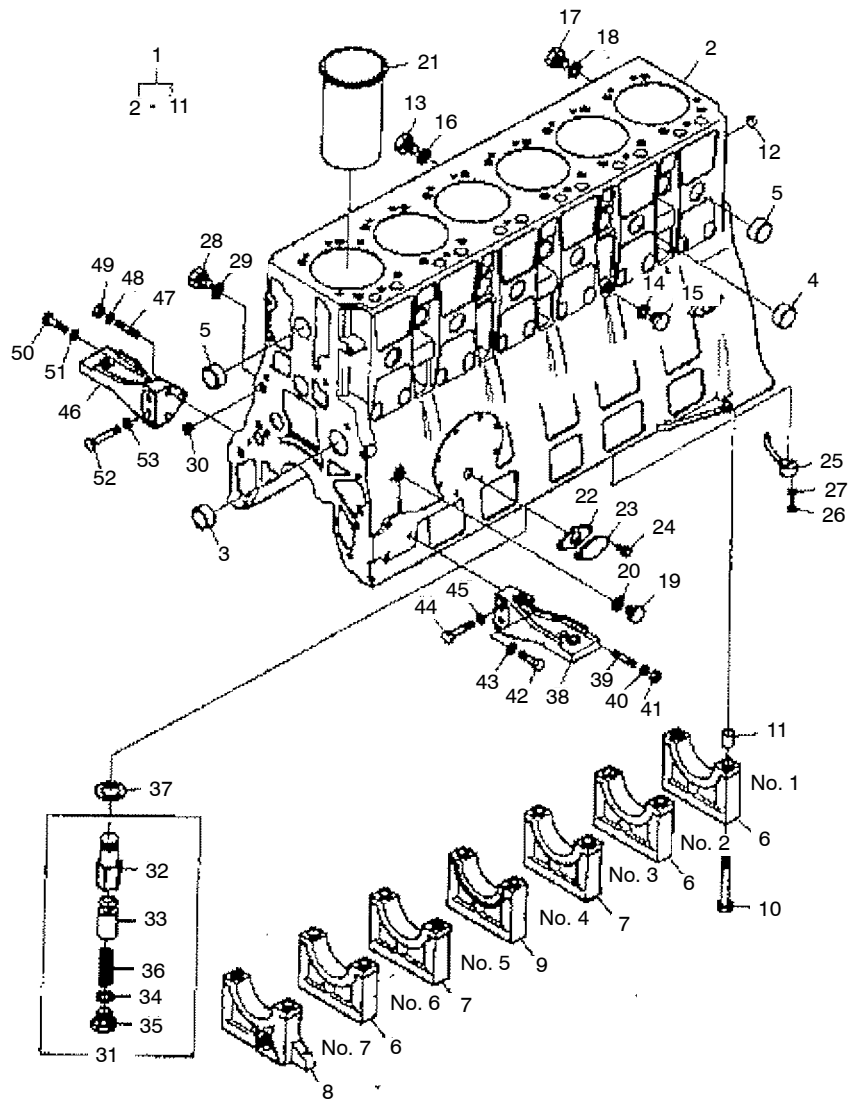
6705\_1-20

Item	Part No.	Description	Qty.
1	GM72282	Washer, lock M12	2
2	GM72285	Washer, flat M12 hardened	2
3	GM72292	Sensor, O2	1
4	GM72310	Gasket	2
5	GM72313	Washer, lock M10	2
6	GM23739	Nut, M10 x 1.5	12
7	GM72317	Washer, flat M10	2
8	GM72325	Bolt, M10-1.5 x 150 hex head	2
9	GM72326	Bolt	2
10	GM72330	Catalyst, inline	1
11	GM72372	Support assembly	1
12	GM72373	Exhaust tube assy	1
13	GM72371	Bracket	2
14	GM72379	Label, MOR	2
15	GM72382	Bolt	12





# 2-1: Cylinder Block

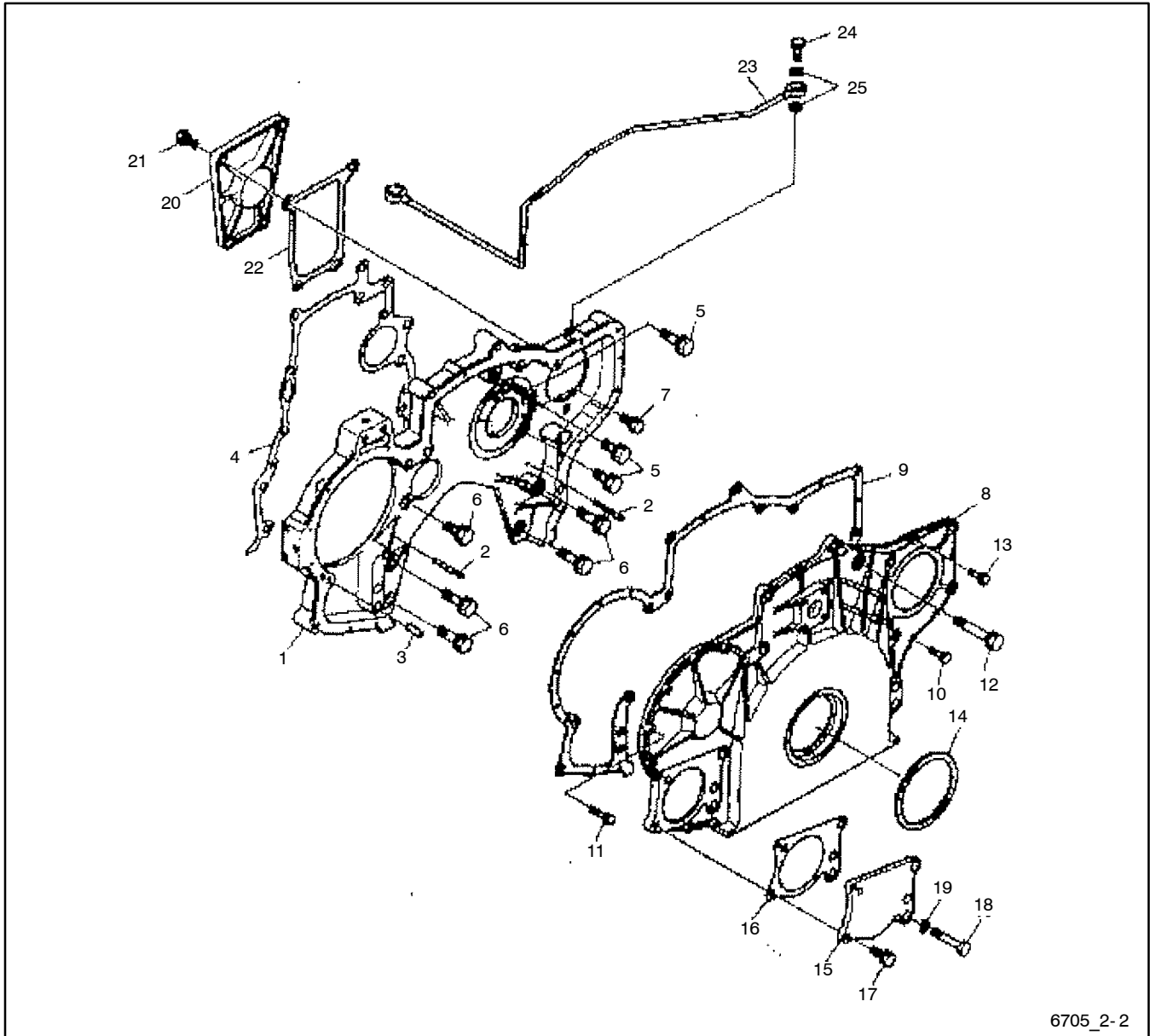


6705\_2-1

## 2-1: Cylinder Block

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72089	Cylinder block assy (includes items 2-11)	1	27	GM72041	Spring washer	12
2	GM72088	Cylinder block	1	28	GM72028	Plug screw	1
3	GM72137	Camshaft bush	4	29	GM72066	Seal ring	1
4	GM72231	Core plug	6	30	GM72101	Oil spray nozzle	1
5	GM72253	Core plug	15	31	GM72154	Relief valve assy	1
6	GM72093	Bearing cap #1	3	32	GM72155	Relief valve housing	1
7	GM72091	Bearing cap #3	2	33	GM72157	Relief valve plunger	1
8	GM72090	Bearing cap #7	1	34	GM72246	Washer	1
9	GM72092	Bearing cap #4	1	35	GM72235	Plug screw	1
10	GM72220	Bearing cap bolt	14	36	GM72272	Spring	1
11	GM72256	Locating ring	14	37	GM72065	Seal ring	1
12	GM72254	Core plug	1	38	GM72086	Engine mounting	1
13	GM72241	Plug screw	1	39	GM72225	Stub bolt	1
14	GM72068	Seal ring	1	40	GM72046	Spring washer	1
15	GM72240	Plug screw	1	41	GM72037	Hex nut	1
16	GM72071	Seal ring	1	42	GM71987	Hex bolt	2
17	GM72029	Plug screw	1	43	GM72046	Spring washer	2
18	GM72064	Seal ring	1	44	GM71988	Hex bolt	2
19	GM72239	Plug screw	1	45	GM72046	Spring washer	2
20	GM72069	Seal ring	1	46	GM72085	Engine mounting	1
21	GM72094	Cylinder liner	6	47	GM72225	Stub bolt	1
22	GM72266	Gasket	1	48	GM72046	Spring washer	1
23	GM72255	Blind cover	1	49	GM72037	Hex nut	1
24	GM72006	Bolt assy	2	50	GM71987	Hex bolt	2
25	GM72102	Oil spray nozzle	6	51	GM72046	Spring washer	2
26	GM72215	Hex bolt	12	52	GM71989	Hex bolt	2
				53	GM72046	Spring washer	2

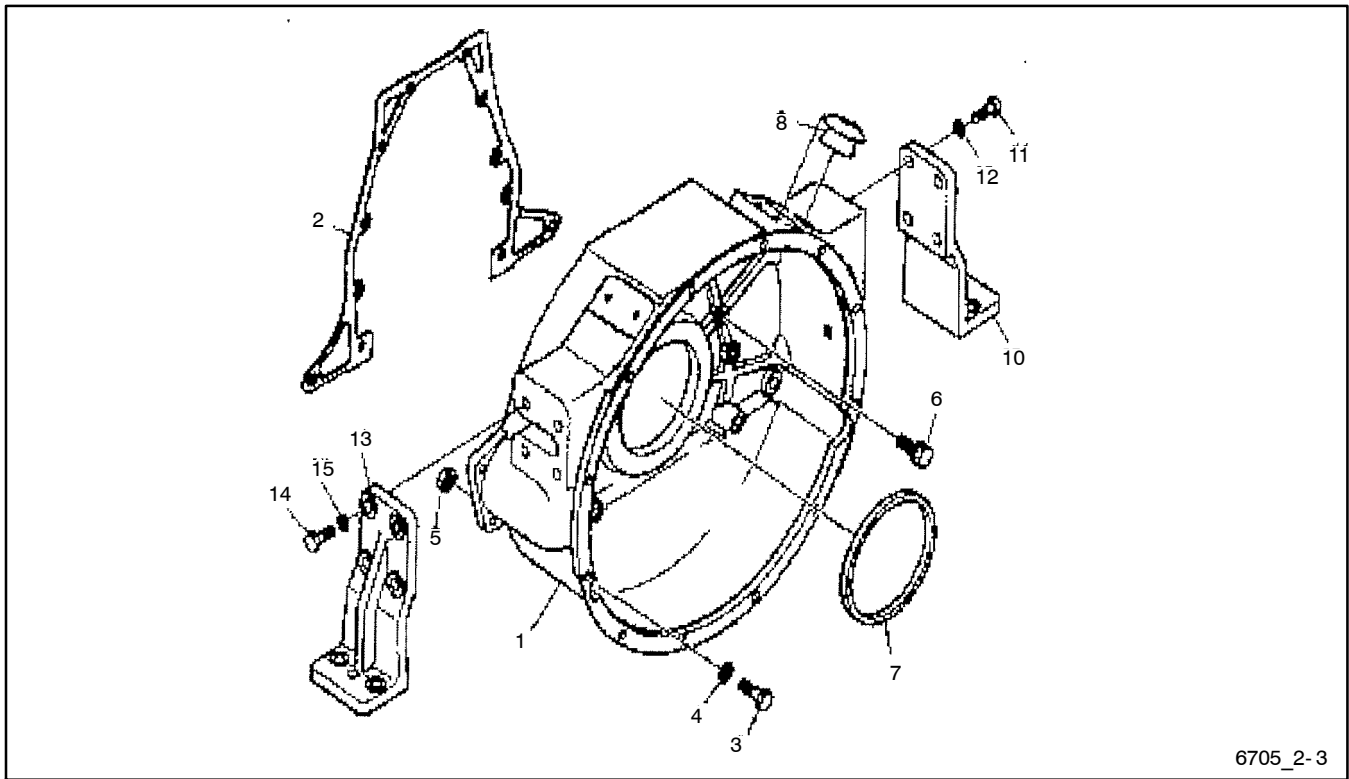
## 2-2: Timing Gear Case



6705\_2-2

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72095	Timing gear case	1	14	GM72099	Oil seal	1
2	GM72250	Dowel pin	2	15	GM72087	Cover	1
3	GM72051	Pin	1	16	GM72212	P/s pump gasket	1
4	GM72105	Gasket	1	17	GM72003	Bolt assy	2
5	GM72016	Bolt assy	3	18	GM71981	Hex bolt	1
6	GM72018	Bolt assy	5	19	GM72044	Spring washer	1
7	GM71998	Bolt assy	1	20	GM72252	End cover (plate)	1
8	GM72096	Timing gear case cover	1	21	GM72015	Bolt assy	4
9	GM72106	Timing gear case cover gasket	1	22	GM72213	Air compressor gasket	1
10	GM72004	Bolt assy	5	23	GM72166	Oil pipe	1
11	GM72005	Bolt assy	7	24	GM72278	Screw	1
12	GM72020	Bolt assy	5	25	GM72062	Seal ring	2
13	GM72214	Hex bolt	1				

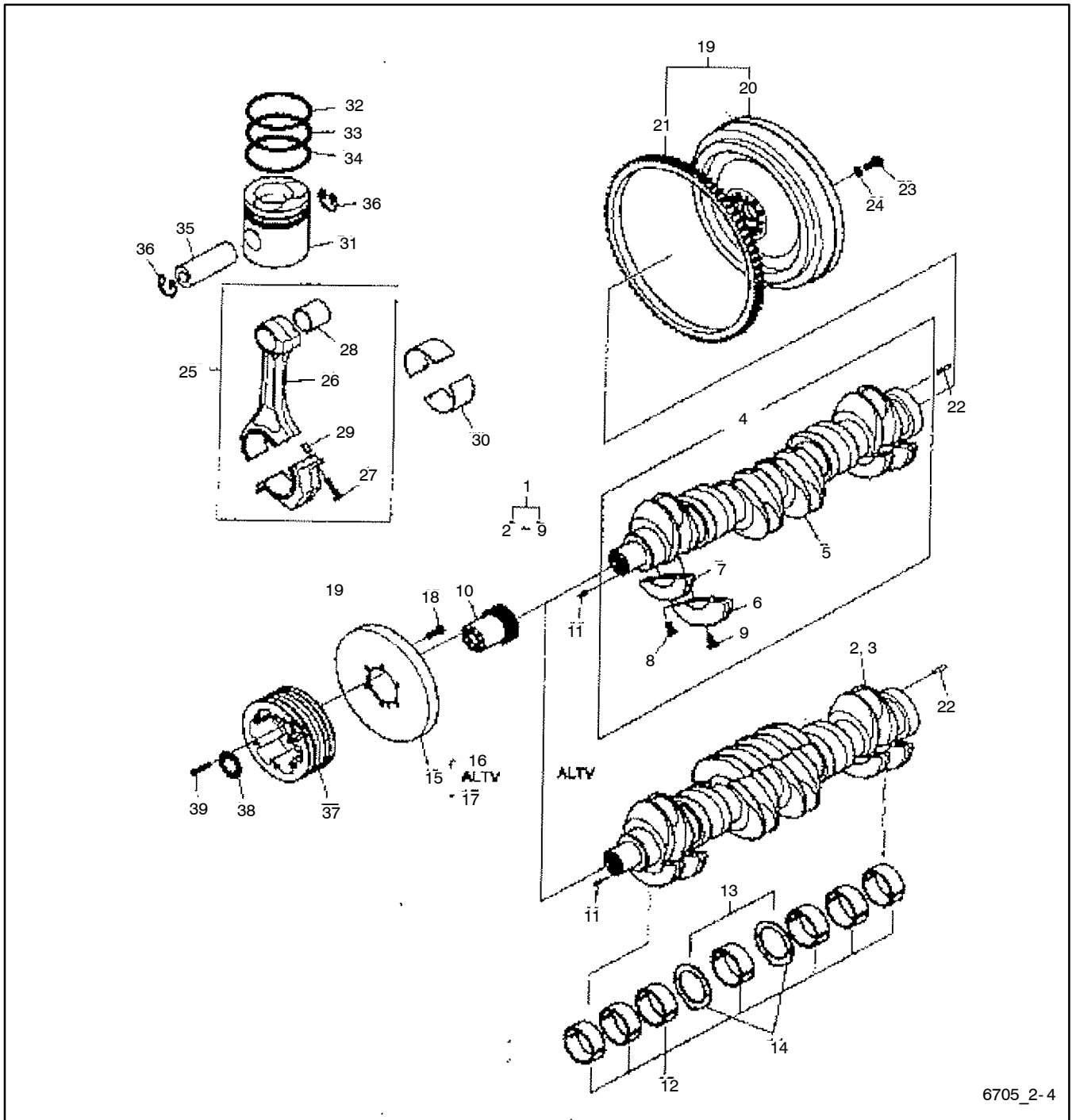
## 2-3: Flywheel Housing



6705\_2-3

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72097	Flywheel housing	1	8	GM72259	Rubber plug	1
2	GM72107	Gasket	1	10	GM72210	Bracket	1
3	GM72022	Bolt	2	11	GM71986	Hex bolt	4
4	GM72046	Spring washer	2	12	GM72046	Spring washer	4
5	GM72035	Hex nut	2	13	GM72210	Bracket	1
6	GM72216	Bolt assy	10	14	GM71986	Hex bolt	4
7	GM72100	Oil seal	1	15	GM72046	Spring washer	4

# 2-4: Driving System



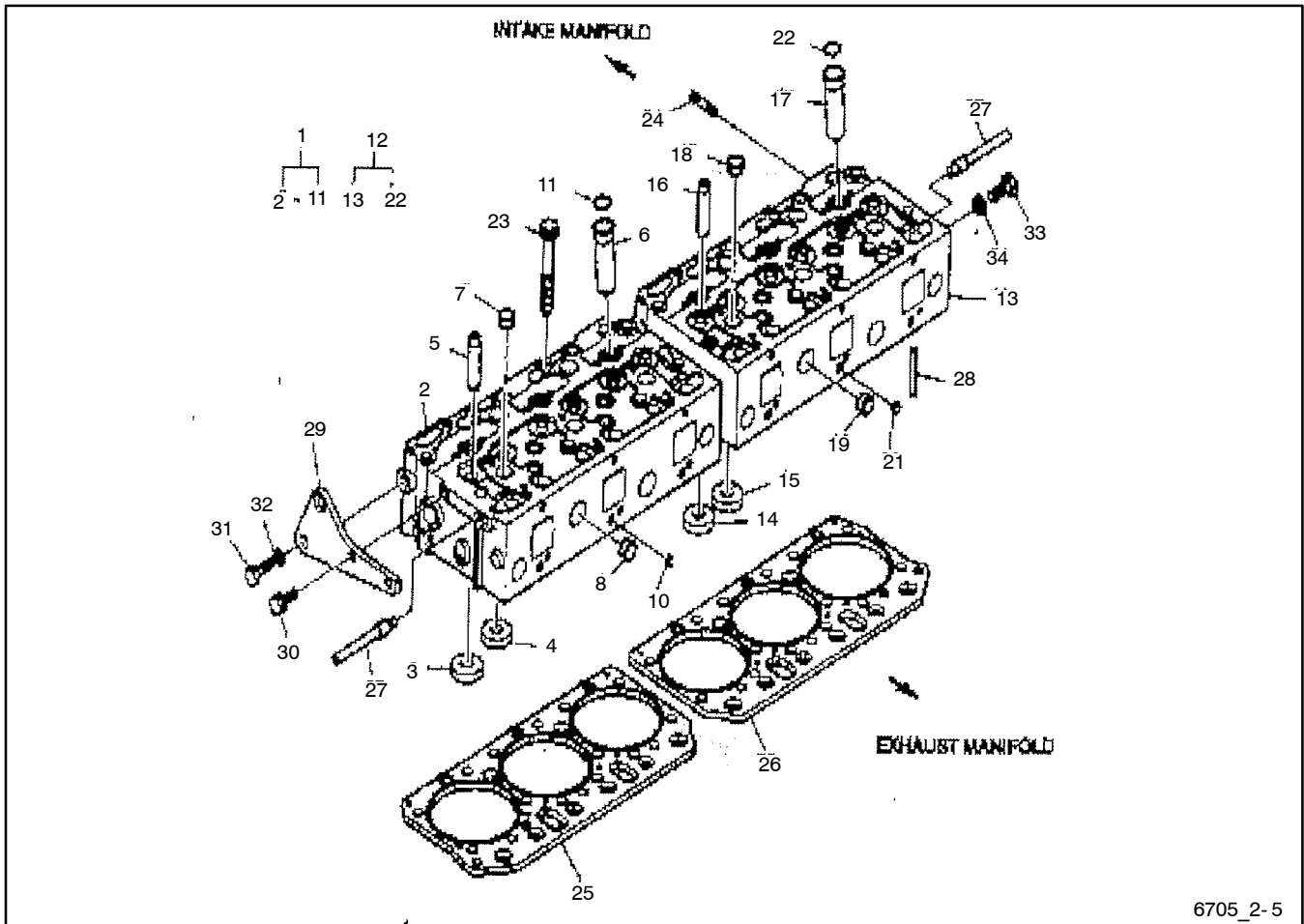
6705\_2-4

## 2-4: Driving System

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	*	Crank shaft assy	1	21	GM72109	Ring gear	1
2	*	Crank shaft	1	22	GM72050	Pin	1
3	*	Crankshaft	1	23	GM71986	Hex bolt	8
4	*	Crank shaft assy	1	24	GM72046	Spring washer	8
5	*	Crank shaft	1	25	GM72111	Connecting rod	6
6	*	Counter weight	4	26	GM72110	Connecting rod	1
7	*	Counter weight	4	27	GM72219	Connecting rod nut	2
8	*	Crankshaft bolt	8	28	GM72112	Connecting rod bush	1
9	*	Crankshaft bolt	8	29	GM72251	Dowel pin	2
10	*	Crankshaft gear	1	30	GM72113	Connecting rod bearing assy	6
11	*	Pin	1	31	GM72114	Piston	6
12	*	Main bearing	7	32	GM72117	Top ring	6
13	*	Thrust washer (upper)	2	33	GM72116	Piston ring	6
14	*	Thrust washer (lower)	2	34	GM72118	Piston ring	6
15	*	Damper	1	35	GM72115	Piston pin	6
16	*	Damper	1	36	GM72054	Snap ring	12
17	*	Damper	1	37	GM72119	V-belt pulley	1
18	*	Bolt	6	38	GM72244	Washer	1
19	*	Flywheel assy	1	39	GM72224	Bolt	8
20	*	Flywheel	1				

\* Serviceable items without part numbers are available by recording the serial number and contacting your supplier of Kohler Co. parts.

## 2-5: Cylinder Head

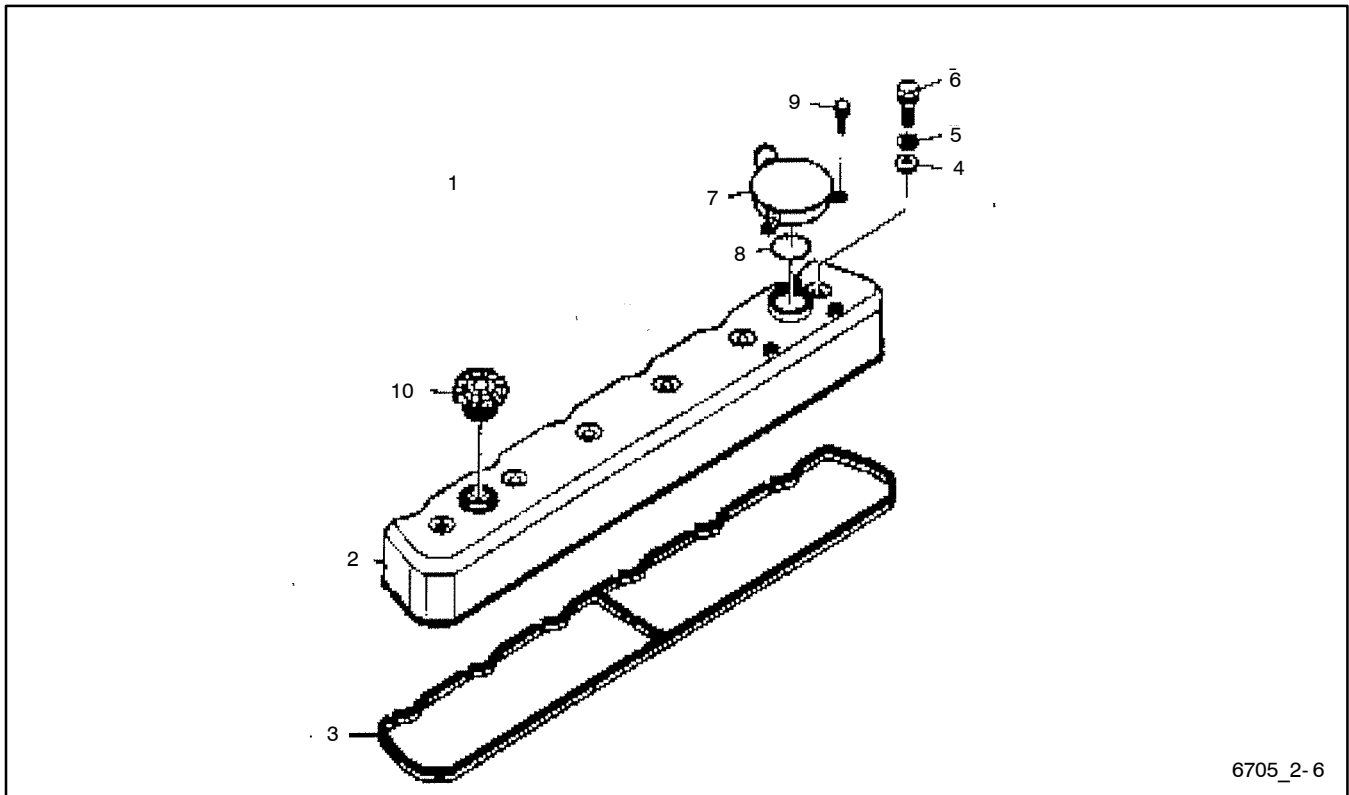


6705\_2-5

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72122	Cylinder head (includes items 2-11)	1	17	GM72127	Injection nozzle tube	3
2	GM72120	Cylinder head	1	18	GM72229	Core plug	9
3	GM72126	Valve seat	3	19	GM72230	Core plug	2
4	GM72125	Intake valve seat	3	21	GM72232	Core plug	3
5	GM72124	Valve guide	6	22	GM72265	O-ring	3
6	GM72127	Injection nozzle tube	3	23	GM72222	Bolt	28
7	GM72229	Core plug	9	24	GM72227	Stud bolt	2
8	GM72230	Core plug	2	25	GM72130	Cylinder head gasket	1
10	GM72232	Core plug	3	26	GM72131	Cylinder head gasket	1
11	GM72265	O-ring	3	27	GM72249	Pin	2
12	GM72123	Cylinder head (includes items 13-22)	1	28	GM72049	Pin	4
13	GM72121	Cylinder head	1	29	GM72211	Hanger bracket	1
14	GM72126	Valve seat	3	30	GM71999	Bolt assy	2
15	GM72125	Intake valve seat	3	31	GM71990	Bolt	1
16	GM72124	Valve guide	6	32	GM72046	Spring washer	1
				33	GM71986	Hex bolt	1
				34	GM72046	Spring washer	1



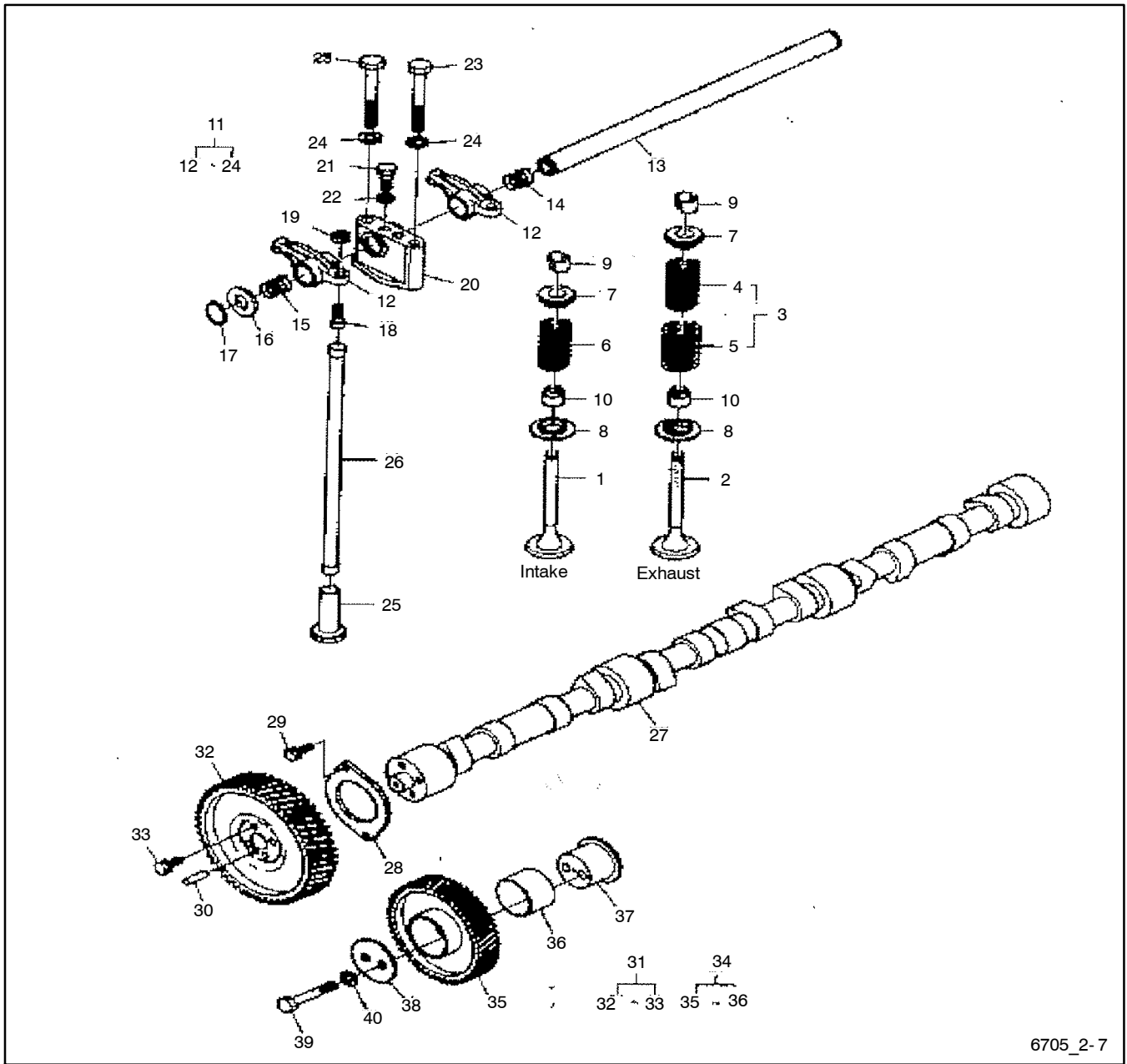
## 2-6: Cylinder Head Cover



6705\_2-6

Item	Part No.	Description	Qty.
1	GM72129	Cylinder head cover assy	1
2	GM72128	Cylinder head cover	1
3	GM72132	Cylinder head cover gasket	1
4	GM72133	Cylinder head cover gasket	6
5	GM72245	Washer	6
6	GM72221	Bolt	6
7	GM72103	Breather housing	1
8	GM72262	O-ring	1
9	GM72006	Bolt assy	3
10	GM72104	Oil filler cap assy	1

# 2-7: Timing System



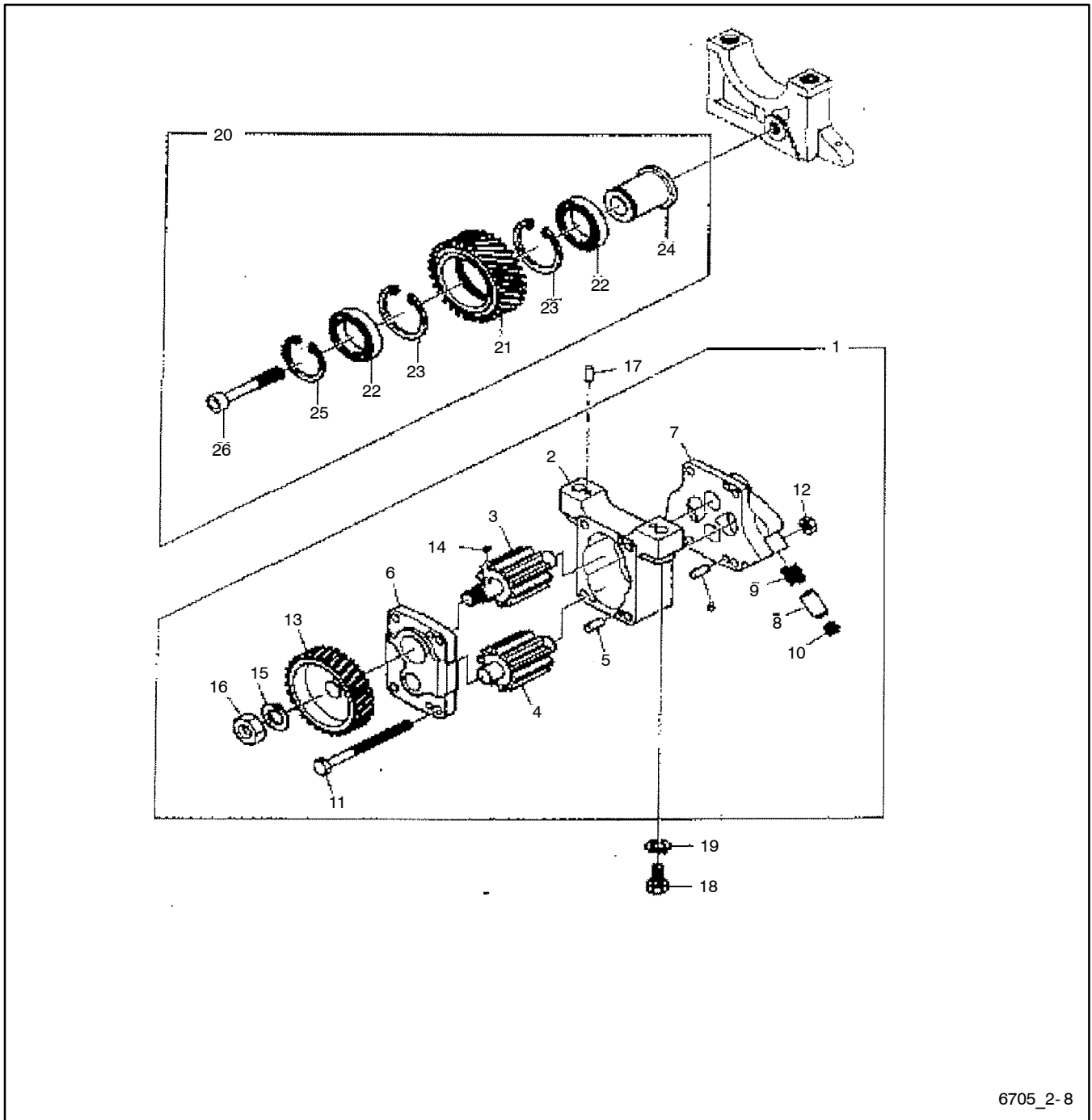
6705\_2-7

## 2-7: Timing System

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	*	Intake valve	6	21	GM71983	Bolt	3
2	*	Valve	6	22	GM72038	Washer	3
3	*	Valve spring assy	6	23	GM71979	Bolt	6
4	*	Valve spring (outer)	1	24	GM72044	Spring washer	6
5	*	Valve spring (inner)	1	25	GM72134	Valve tappet	12
6	*	Valve spring (outer)	6	26	GM72135	Push rod	12
7	*	Valve spring retainer	12	27	GM72136	Cam shaft	1
8	*	Valve spring seat	12	28	GM72274	Flange	1
9	*	Valve cotter	24	29	GM72217	Bolt assy	2
10	*	Valve stem seal	12	30	GM72051	Pin	1
11	*	Rocker arm & shaft assy	2	31	GM72138	Camshaft drive assy	1
12	*	Rocker arm assy	6	32	GM72139	Cam shaft gear	1
13	*	Rocker arm shaft assy	1	33	GM72002	Bolt assy	4
14	*	Compressor spring	2	34	GM72141	Idle gear assy	1
15	*	Compressor spring (outer)	2	35	GM72140	Idle gear	1
16	*	Rocker arm washer	2	36	GM72143	Idle gear bush	1
17	*	Snap ring	2	37	GM72142	Idle gear pin	1
18	*	Adjust screw	6	38	GM72247	Thrust washer	1
19	*	Hex nut	6	39	GM71982	Hex bolt	2
20	*	Rocker arm bracket	3	40	GM72044	Spring washer	2

\* Serviceable items without part numbers are available by recording the serial number and contacting your supplier of Kohler Co. parts.

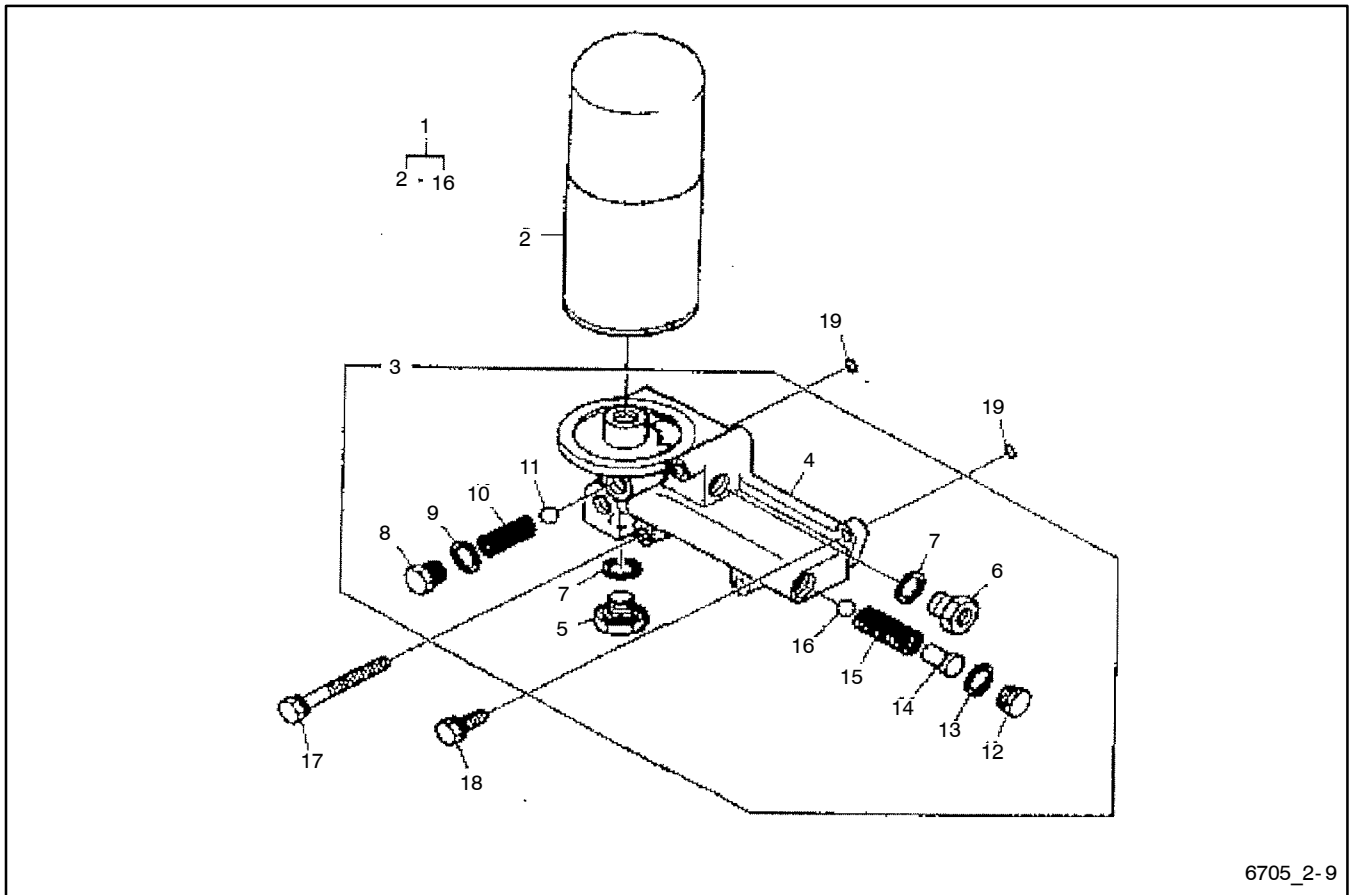
## 2-8: Oil Pump



6705\_2-8

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72144	Oil pump assy	1	14	GM72057	Woodruff key	1
2	GM72145	Oil pump housing	1	15	GM72042	Lock washer	1
3	GM72148	Oil pump gear assy	1	16	GM72032	Hex nut	1
4	GM72149	Oil pump gear assy	1	17	GM72048	Pin	2
5	GM72048	Pin	4	18	GM71978	Hex bolt	2
6	GM72146	Cover assy (front)	1	19	GM72248	Lock washer	2
7	GM72147	Cover assy (rear)	1	20	GM72150	Idle gear mounting assy	1
8	GM72156	Valve plunger	1	21	GM72152	Idle gear	1
9	GM72273	Compression spring	1	22	GM72058	Ball bearing	2
10	GM72236	Plug screw	1	23	GM72056	Snap ring	2
11	GM71977	Hex bolt	4	24	GM72153	Idle gear pin	1
12	GM72243	Nut	4	25	GM72053	Snap ring	1
13	GM72151	Oil pump drive gear	1	26	GM72223	Bolt	1

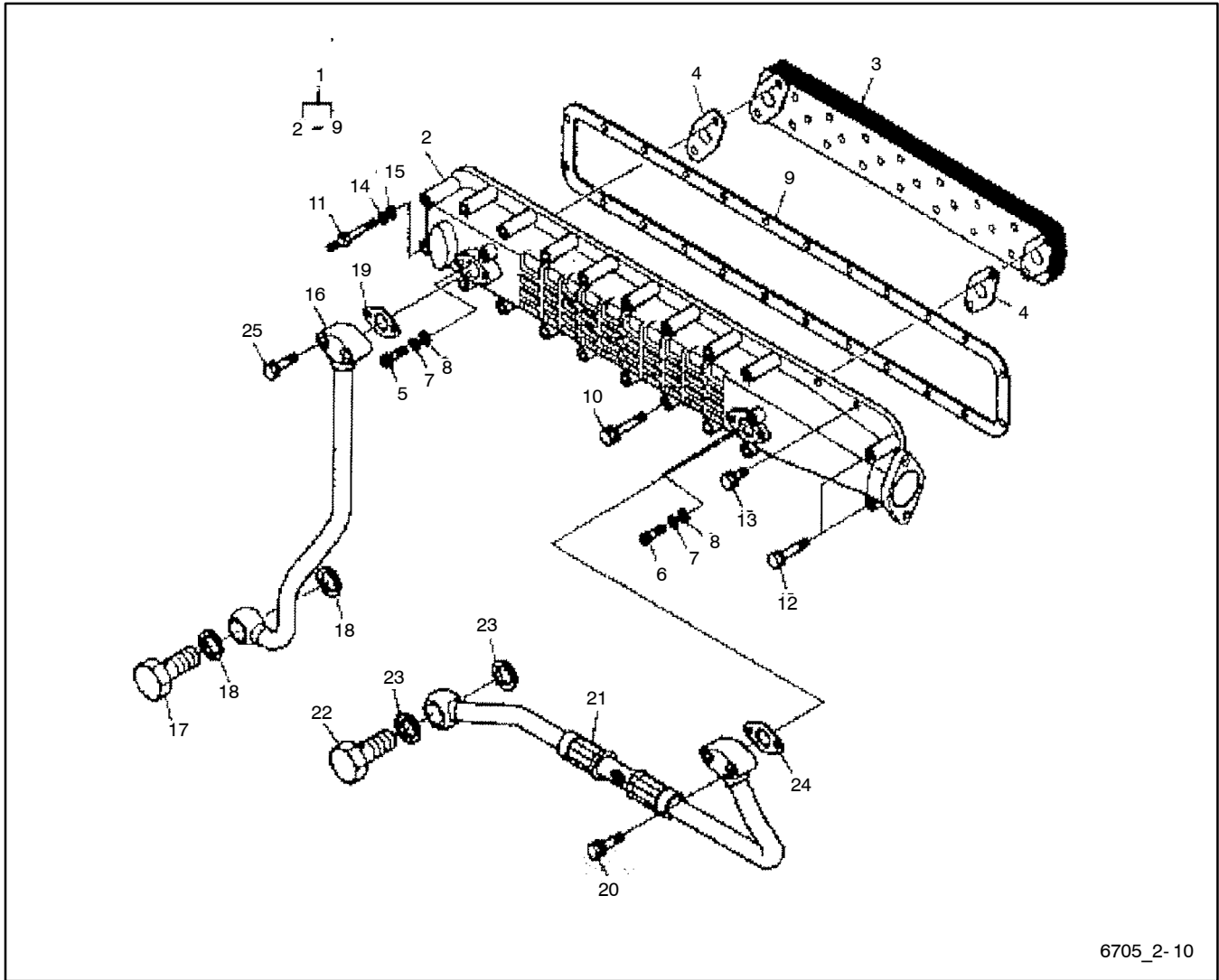
## 2-9: Oil Filter



6705\_2-9

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72158	Oil filter assy	1	11	GM72060	Steel ball	1
2	GM72161	Oil filter	1	12	GM72234	Plug screw	1
3	GM72160	Oil filter head assy	1	13	GM72075	Seal ring	1
4	GM72159	Oil filter head	1	14	GM72052	Spring pin	1
5	GM72238	Plug screw	1	15	GM72270	Spring	1
6	GM72027	Plug screw	1	16	GM72060	Steel ball	1
7	GM72072	Seal ring	2	17	GM72021	Bolt assy	4
8	GM72237	Plug	1	18	GM72019	Bolt assy	1
9	GM72073	Seal ring	1	19	GM72263	O-ring	2
10	GM72271	Spring	1				

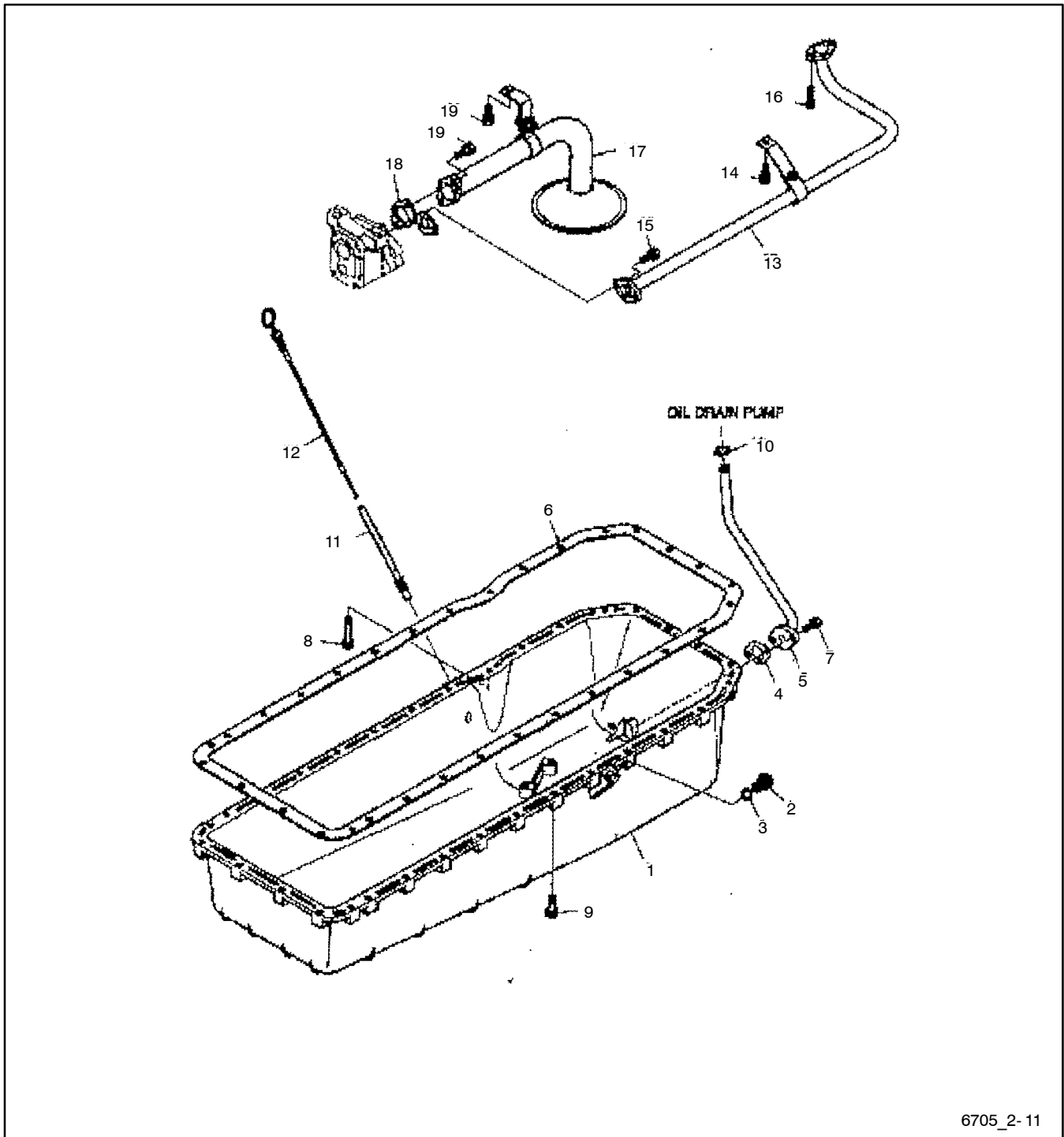
## 2-10: Oil Cooler



6705\_2-10

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72162	Oil cooler assy	1	14	GM72043	Spring washer	1
2	GM72163	Oil cooler housing	1	15	GM72038	Washer	1
3	GM72164	Oil cooler element	1	16	GM72165	Oil pipe assy	1
4	GM72174	Flange gasket	2	17	GM72078	Screw	1
5	GM72023	Bolt	2	18	GM72074	Seal ring	2
6	GM72024	Socket head bolt	2	19	GM72176	Oil return pipe gasket	1
7	GM72044	Spring washer	4	20	GM71996	Bolt assy	2
8	GM72039	Plain washer	4	21	GM72168	Oil pipe assy	1
9	GM72108	Gasket	1	22	GM72078	Screw	1
10	GM72010	Bolt assy	17	23	GM72075	Seal ring	2
11	GM72228	Bolt	1	24	GM72176	Oil return pipe gasket	1
12	GM72009	Bolt assy	2	25	GM71996	Bolt assy	2
13	GM72007	Bolt assy	4				

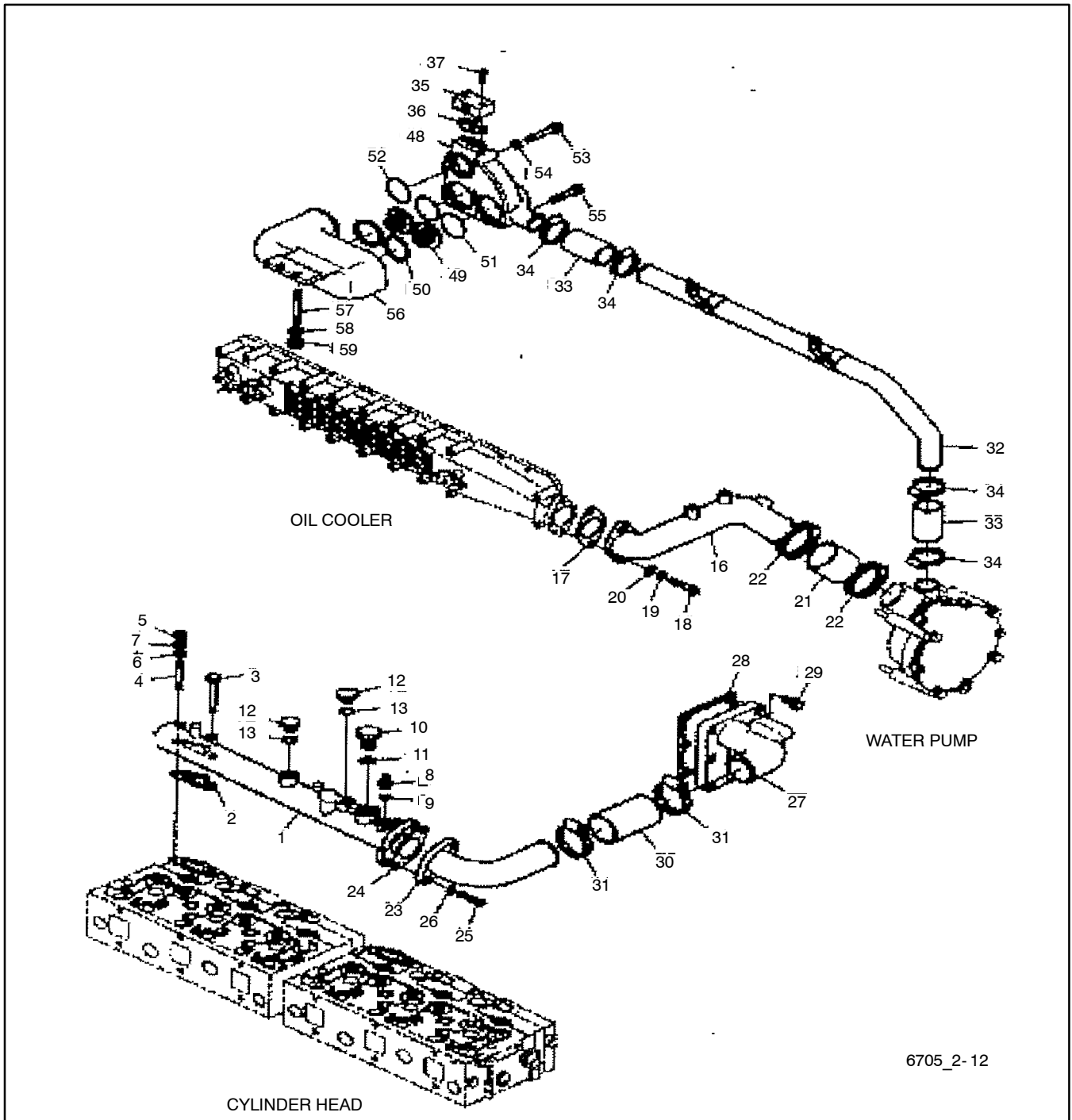
## 2-11: Oil Pan



6705\_2-11

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72170	Oil pan	1	11	GM72172	Guide tube assy	1
2	GM72031	Plug screw	1	12	GM72171	Oil level gauge assy	1
3	GM72070	Seal ring	1	13	GM72167	Oil pipe	1
4	GM72267	Gasket	1	14	GM71993	Bolt assy	1
5	GM72080	Oil drain pipe	1	15	GM72218	Socket bolt assy	2
6	GM72177	Oil pan gasket	1	16	GM71992	Bolt assy	2
7	GM71993	Bolt assy	2	17	GM72169	Oil suction pipe assy	1
8	GM72008	Bolt assy	31	18	GM72173	Gasket	1
9	GM72011	Bolt assy	1	19	GM71992	Bolt assy	4
10	GM72077	Hose clamp	1				

## 2- 12: Cooling Water Pipe



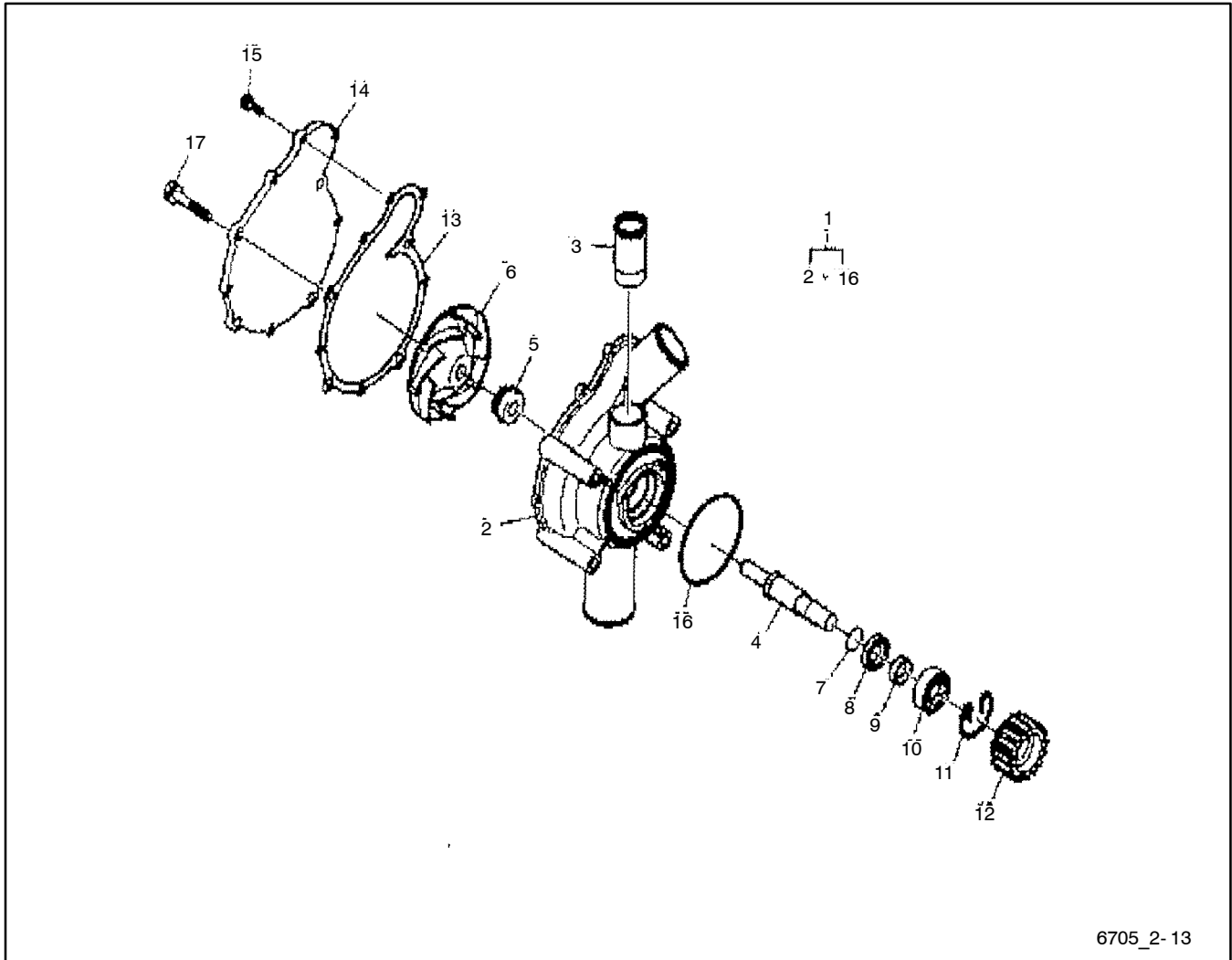
6705\_2-12



## 2- 12: Cooling Water Pipe

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72179	Cooling water pipe	1	27	GM72081	Exhaust manifold cover	1
2	GM72194	Gasket	2	28	GM72083	Gasket	1
3	GM72010	Bolt assy	2	29	GM71994	Bolt assy	6
4	GM72226	Bolt	2	30	GM72261	Hose	1
5	GM72033	Hex nut	2	31	GM72268	Clamp	2
6	GM72043	Spring washer	2	32	GM72181	Cooling water pipe	1
7	GM72038	Washer	2	33	GM72260	Hose	2
8	GM72277	Screw	1	34	GM72269	Hose clamp	4
9	GM72066	Seal ring	1	35	GM72276	Adapter	1
10	GM72242	Plug screw	1	36	GM72175	Gasket	1
11	GM72074	Seal ring	1	37	GM71995	Bolt assy	2
12	GM72030	Plug screw	2	48	GM72182	Thermostat housing	1
13	GM72067	Seal ring	2	49	GM72079	Thermostat	2
16	GM72178	Cooling water pipe	1	50	GM72193	Thermostat gasket	2
17	GM72195	Gasket	1	51	GM72076	O-ring	2
18	GM72024	Socket head bolt	2	52	GM72061	O-ring	1
19	GM72044	Spring washer	2	53	GM72000	Bolt assy	2
20	GM72039	Plain washer	2	54	GM72039	Plain washer	2
21	GM72261	Hose	1	55	GM72012	Bolt assy	3
22	GM72268	Clamp	2	56	GM72183	Thermostat housing	1
23	GM72082	Cooling water pipe	1	57	GM72026	Stud bolt	2
24	GM72196	Thermostat housing gasket	1	58	GM72044	Spring washer	2
25	GM72024	Socket head bolt	2	59	GM72034	Hex nut	2
26	GM72039	Plain washer	2				

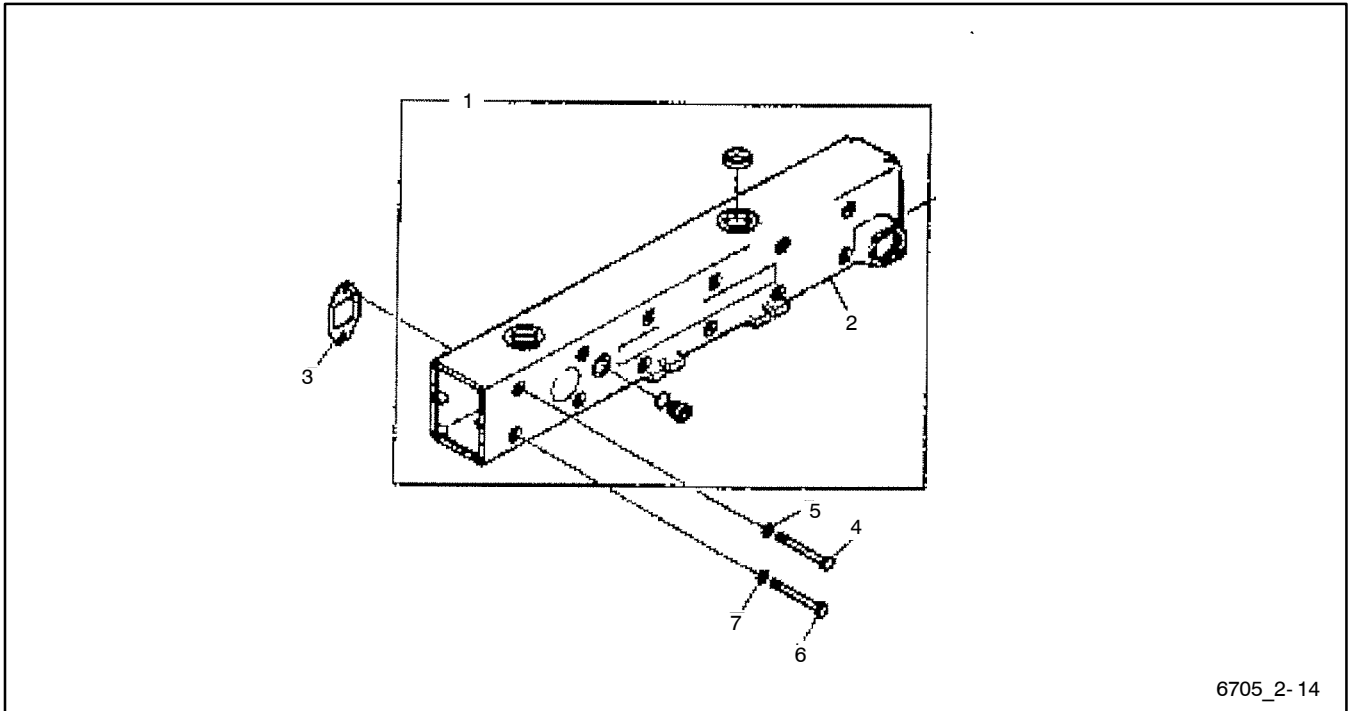
## 2-13: Water Pump



6705\_2-13

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72184	Water pump assy	1	10	GM72258	Water pump bearing	1
2	GM72185	Water pump housing	1	11	GM72055	Snap ring	1
3	GM72180	Cooling water pipe	1	12	GM72188	Water pump drive gear	1
4	GM72186	Water pump shaft	1	13	GM72192	Water pump gasket	1
5	GM72191	Seal	1	14	GM72190	Housing cover	1
6	GM72187	Water pump impeller	1	15	GM71991	Bolt assy	5
7	GM72098	Oil seal	1	16	GM72264	O-ring	1
8	GM72059	Ball bearing	1	17	GM72001	Bolt assy	4
9	GM72189	Spacer	1				

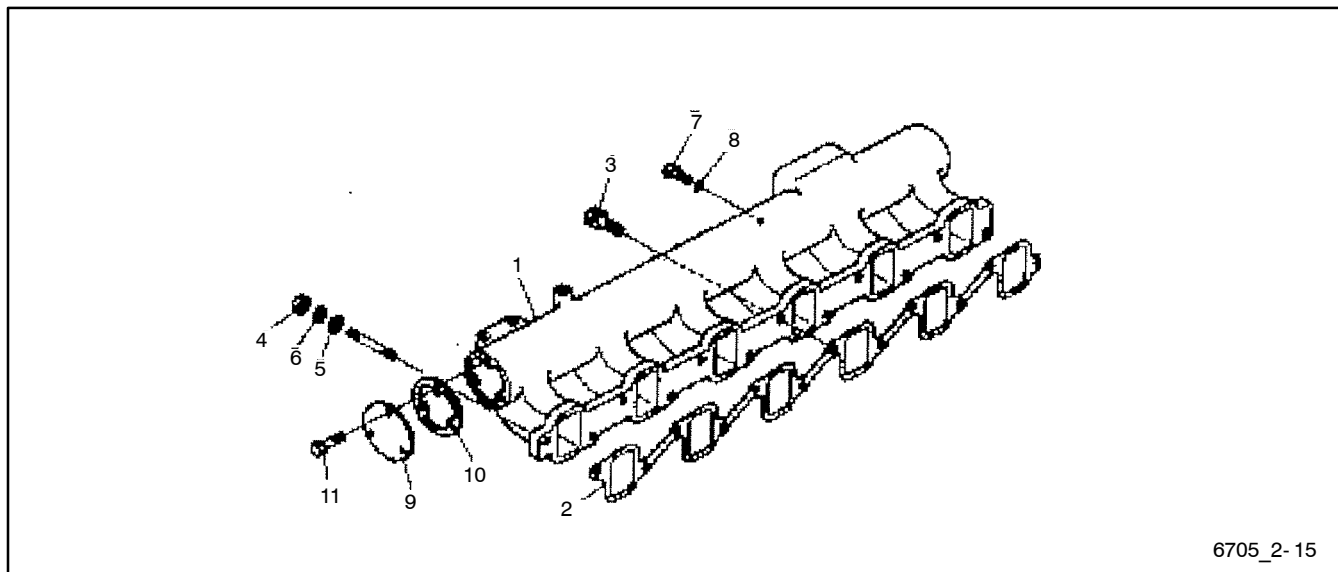
## 2-14: Exhaust Manifold



6705\_2-14

Item	Part No.	Description	Qty.
1	GM72198	Exhaust manifold assy	1
2	GM72197	Exhaust manifold	1
3	GM72201	Gasket	6
4	GM71980	Bolt	6
5	GM72044	Spring washer	6
6	GM71984	Hex bolt	6
7	GM72045	Spring washer	6

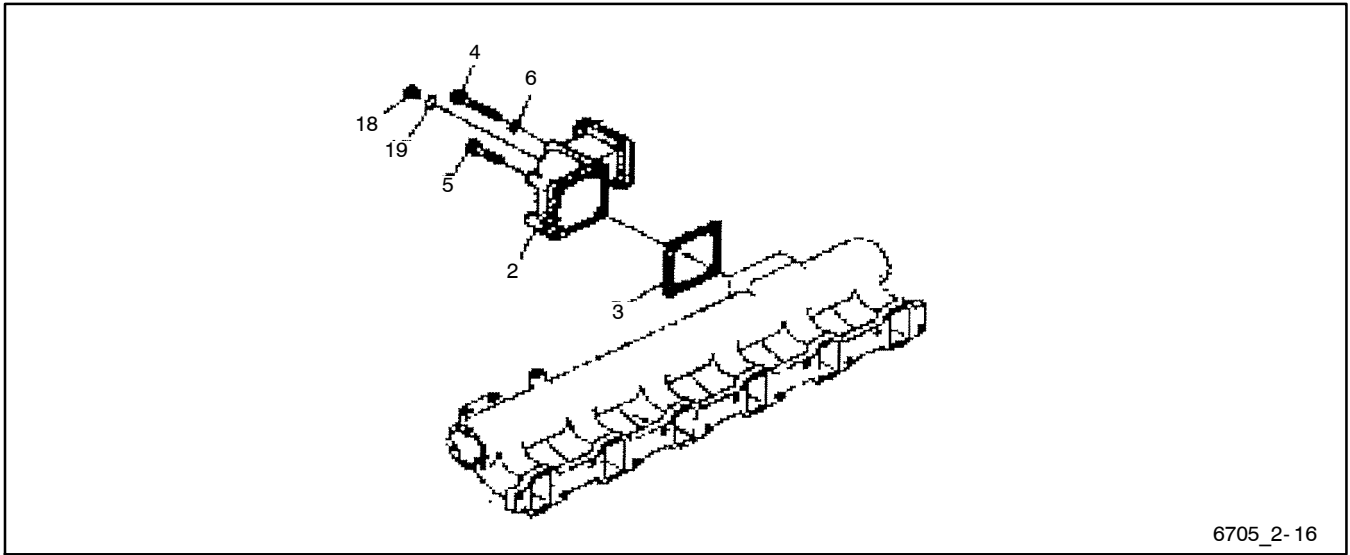
## 2- 15: Intake Manifold



6705\_2- 15

Item	Part No.	Description	Qty.
1	GM72199	Intake manifold assy	1
2	GM72202	Gasket	1
3	GM72013	Bolt assy	8
4	GM72034	Hex nut	2
5	GM72044	Spring washer	2
6	GM72039	Plain washer	2
7	GM72257	Plug screw	1
8	GM72063	Seal ring	1
9	GM72275	Blind cover	1
10	GM72203	Intake manifold gasket	1
11	GM71996	Bolt assy	3

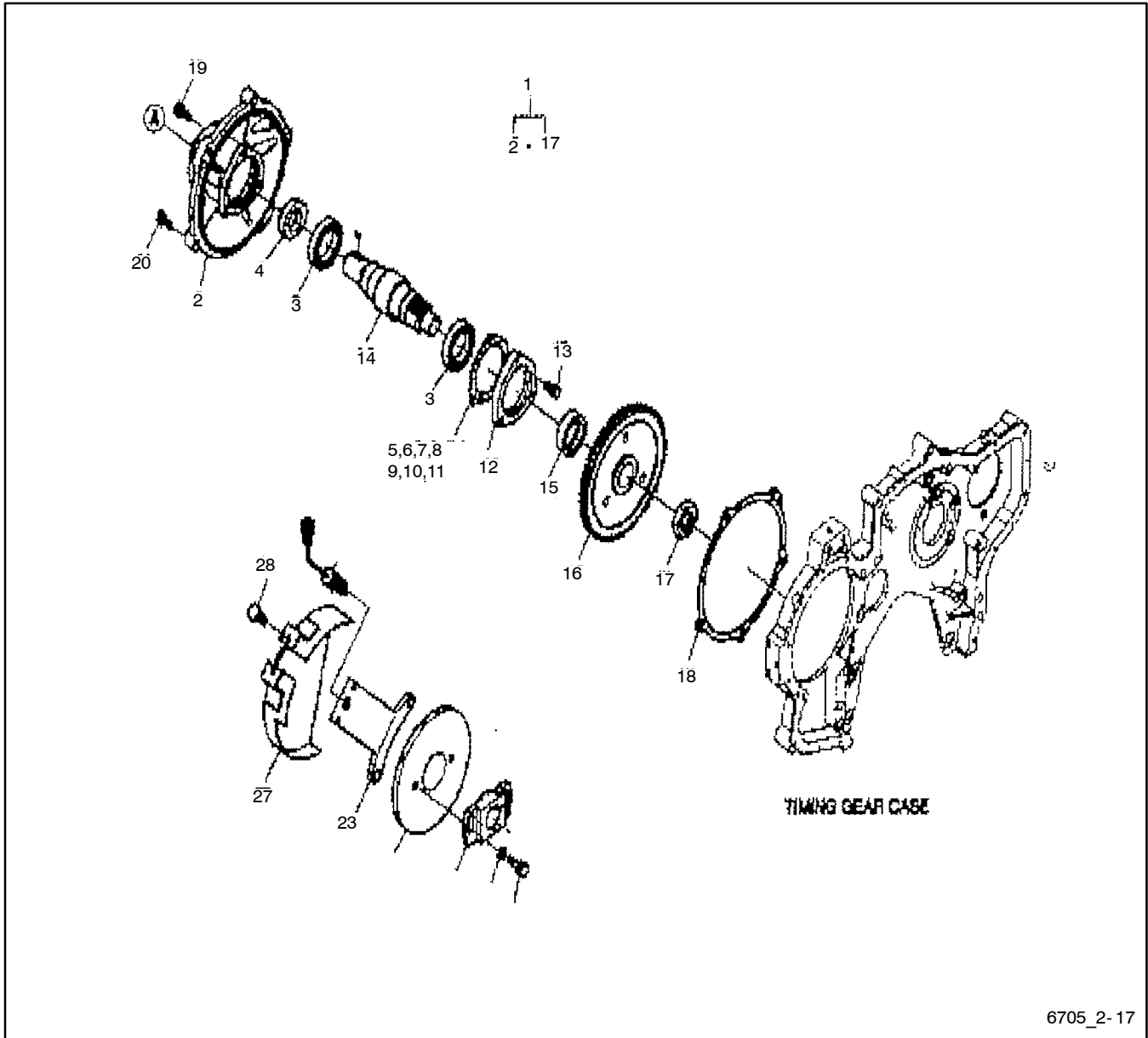
## 2- 16: Intercooler



6705\_2-16

Item	Part No.	Description	Qty.
2	GM72200	Intake stake	1
3	GM72084	Gasket	1
4	GM72001	Bolt assy	2
5	GM72014	Bolt assy	2
6	GM72039	Plain washer	2
18	GM72233	Plug screw	1
19	GM72063	Seal ring	1

## 2- 17: Injection Pump Drive Gear

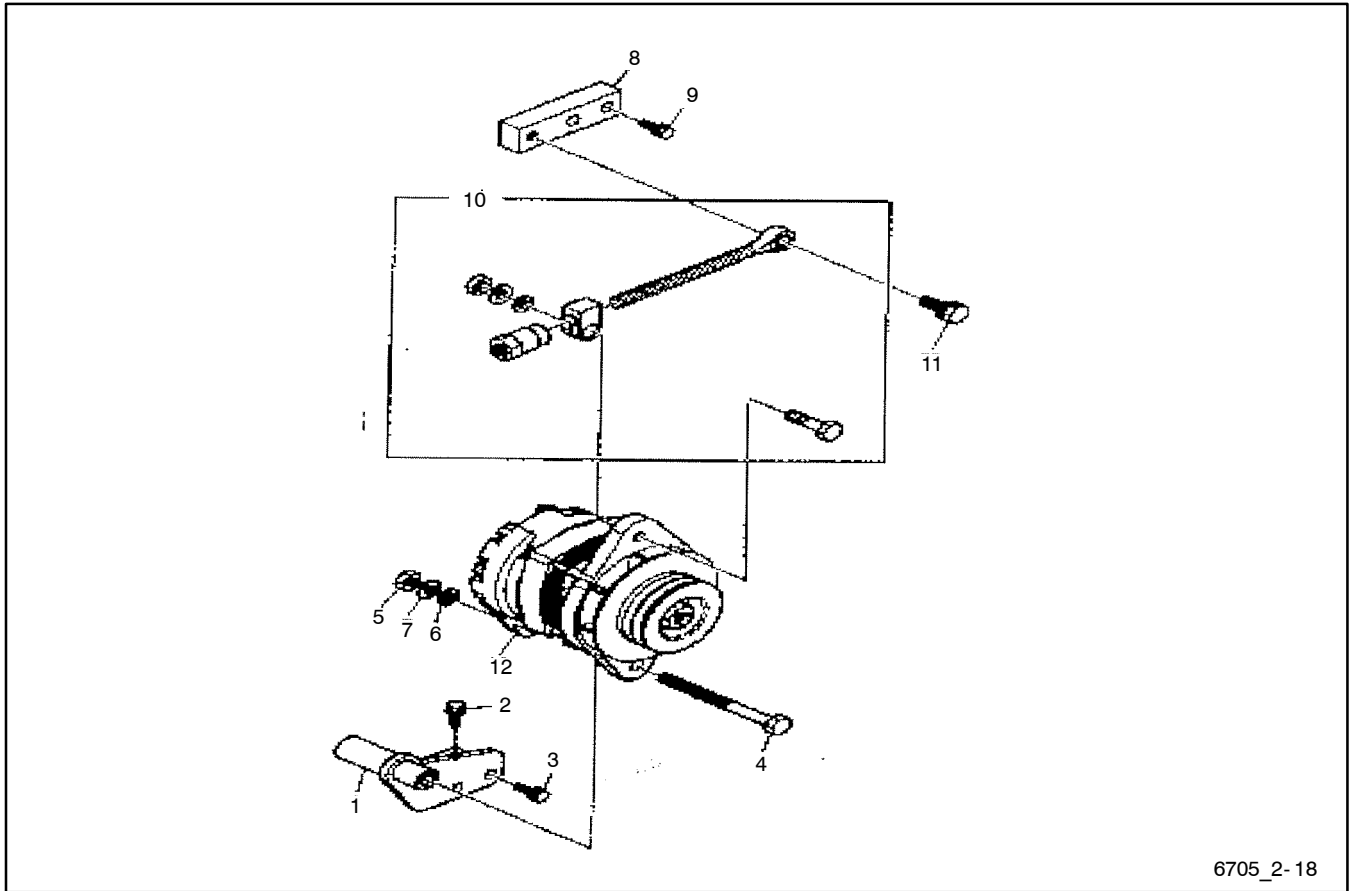


6705\_2- 17

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	*	Injection pump drive assy	1	13	*	Bolt assy	3
2	*	Injection pump drive housing	1	14	*	Injection pump drive shaft	1
3	*	Taper roller bearing	2	15	*	Spacer	1
4	*	Oil seal	1	16	*	Injection pump drive gear	1
5	*	Injection pump spacer	1	17	*	Lock nut	1
6	*	Shim 0.2mm	1	18	*	Gasket	1
7	*	Shim 0.15mm	1	19	*	Bolt	1
8	*	Shim 0.1mm	1	20	*	Bolt	2
9	*	Injection pump spacer	1	23	*	Bracket	1
10	*	Injection pump spacer	1	27	*	Tachometer cover	1
11	*	Injection pump spacer	1	28	*	Hex bolt	2
12	*	Injection pump drive cover	1				

\* Serviceable items without part numbers are available by recording the serial number and contacting your supplier of Kohler Co. parts.

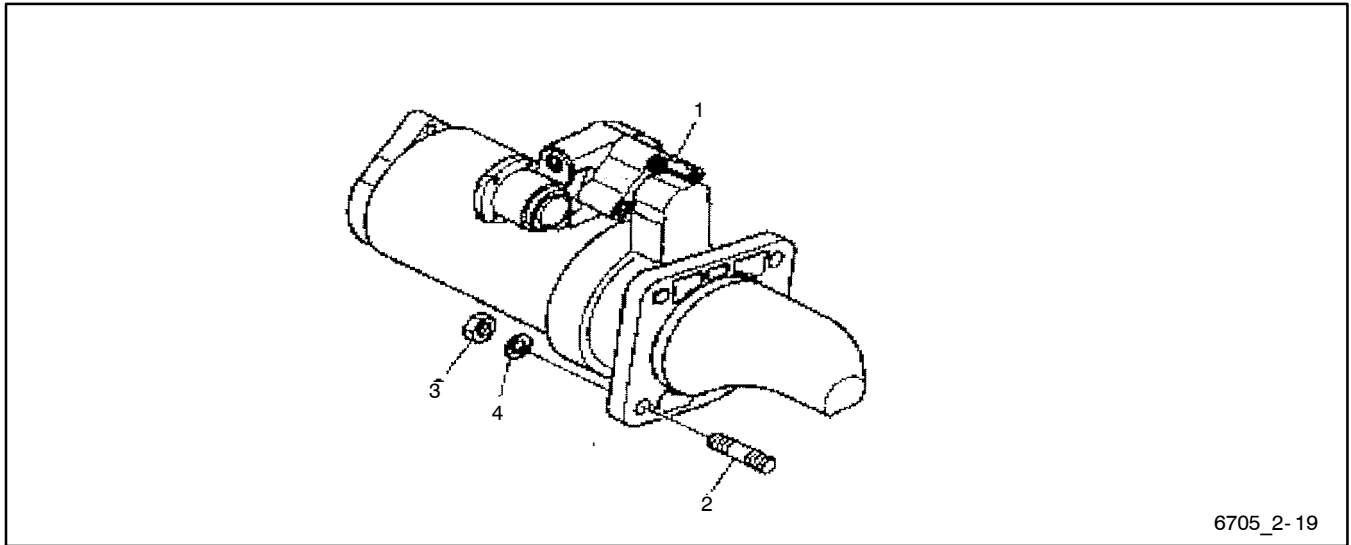
## 2-18: Alternator



6705\_2-18

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM72205	Alternator mounting bracket	1	7	GM72040	Plain washer	1
2	GM71997	Bolt assy	1	8	GM72206	Support bracket	1
3	GM72016	Bolt assy	2	9	GM71997	Bolt assy	2
4	GM71985	Hex bolt	1	10	GM72207	Eye bolt assy	1
5	GM72036	Hex nut	1	11	GM72017	Bolt assy	1
6	GM72047	Spring washer	1	12	GM72208	Alternator	1

## 2-19: Starter

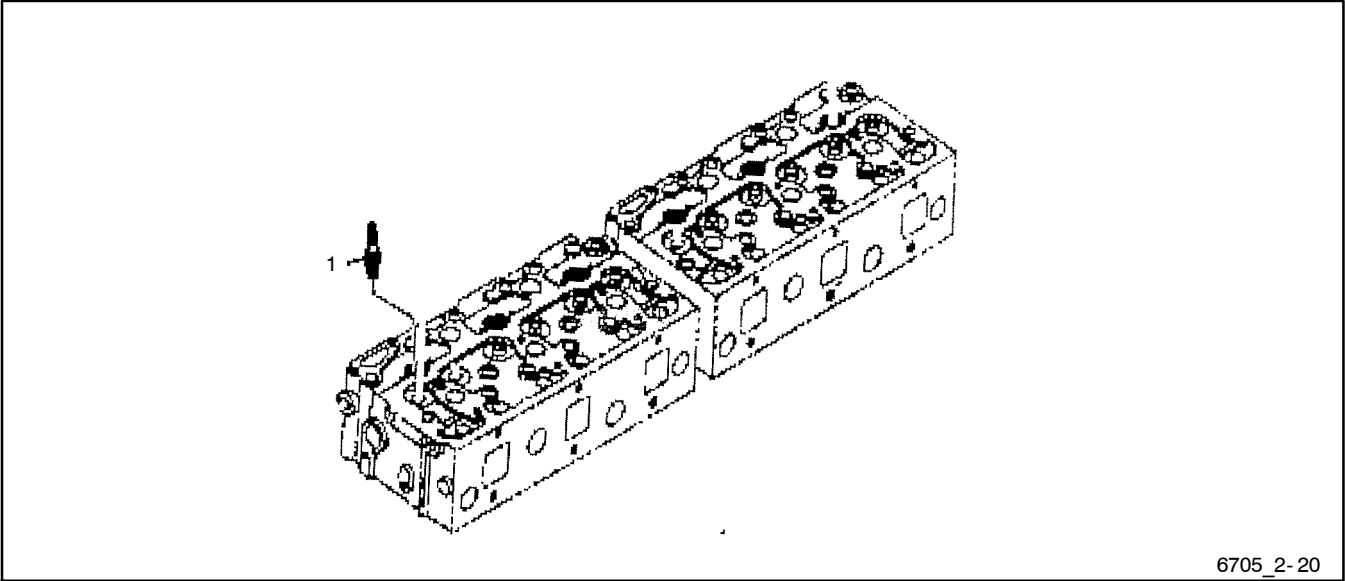


6705\_2-19

Item	Part No.	Description	Qty.
1	GM72209	Starter	1
2	GM72025	Stud bolt	3
3	GM72034	Hex nut	3
4	GM72044	Spring washer	3



# 2- 20: Spark Plug



6705\_2- 20

Item	Part No.	Description	Qty.
1	GM72204	Spark plug	6





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