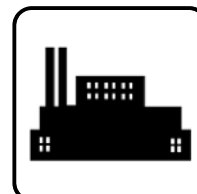


Service Parts

Engine



Engine Model:

PSI 8.8 L

Generator Models:

125/150ERESC

125/150REZGC

125REZGT

125/150RZGC

KOHLER[®]
Power Systems

ISO 9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-6846 8/16b

Table of Contents

Description	Page
Introduction	3
Numbering System Significance	3
Illustrations	3
How to Find Part Numbers	3
Model Index	4
1-1: Dipstick	5
1-2: Starter	7
1-3: Fan Spacer	9
1-4: Lifting Eye	11
1-5: Flywheel Adapter	12
1-6: Flywheel Housing	14
1-7: Exhaust Manifold	16
1-8: Exhaust Pipe	18
1-9: Thermostat	20
1-10: Starter Stud	23
1-11: Wiring	25
1-12: Front Mount	28
1-13-1: Fuel System	29
1-13-2: EPR	33
1-13-3: PVC Hose Assembly	36
1-15: Alternator	37
1-18: Turbo/Exhaust Adapter	39
1-20-1: Turbocharger	40
1-20-2: Turbocharger Inlet	42
1-21: Intake Crossover	43
1-22: Charge Air Cooler Tubing	44
1-23: Breather	45
1-24: Throttle Body	47
2-1: Cylinder Head	49
2-2: Valve Actuation	51
2-3: Engine Cover	53
2-4: Water Pump	55
2-5: Coolant Crossover Pipe	57
2-6: Intake Manifold	59
2-7: Sensors and Spark Plugs, Oil Filter	61
2-8: Flywheel	63
2-9: Cylinder Block	65
2-10: Crankshaft	66
2-11: Camshaft	68
2-12: Piston & Rods	70
2-13: Oil Pump	72
2-14: Crankshaft Balancer	74
2-15: Front Drive	76
2-16: Oil Pan	78
2-17: Oil Pump Drive	80

Introduction

This manual lists service replacement parts for PSI 8.8L 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.

Index. Lists the generator set specification number and engine part numbers.

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

Numbering System Significance

This manual uses the following numbering systems:

Specification Number/Engine Number. The product identification number located on the generator set nameplate. Engine numbers break down into groups.

Group Number. A unique number representing a parts group needed to assemble a generator set function. For example, Group 1-2 is the Starter 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

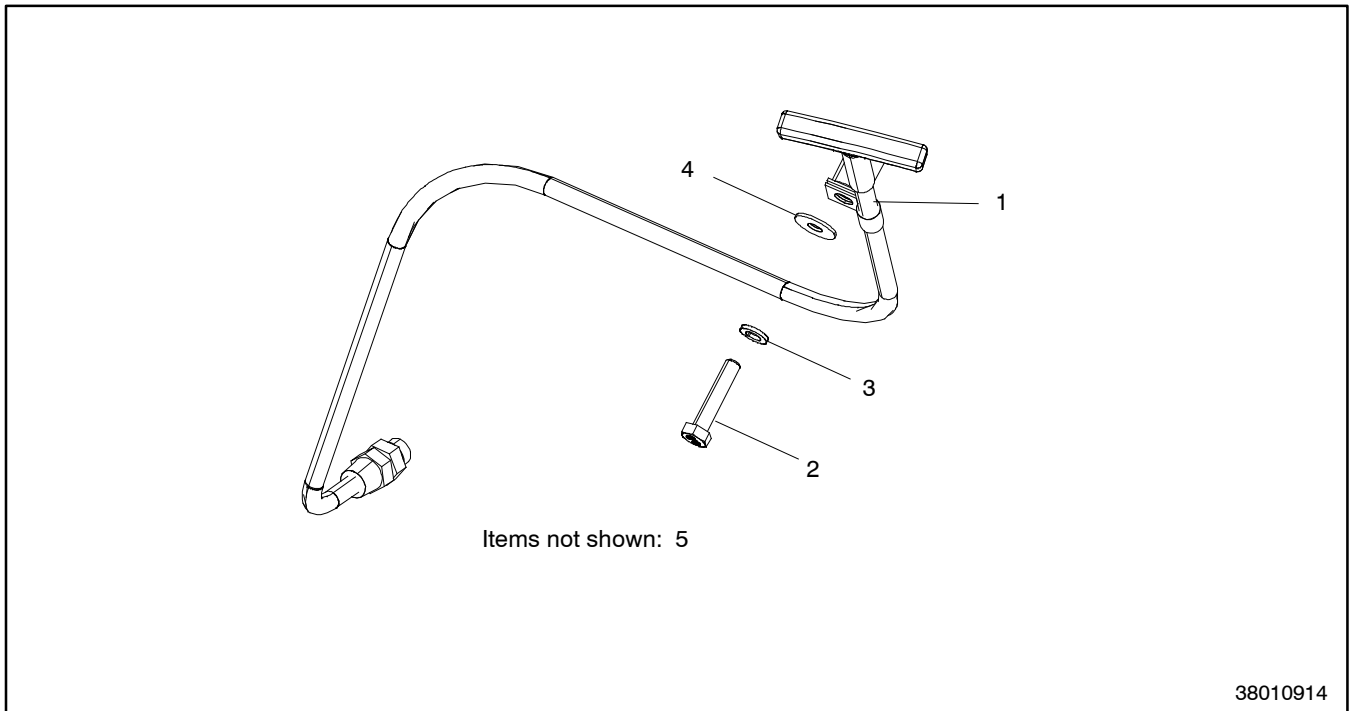
Use the following steps to locate a service replacement part.

1. Locate the nameplate to **identify the specification number.**
2. **Turn to the Specification Number Index.** The first column lists the generator set spec numbers.
3. **Find the engine number** at the intersection of the spec row and the engine number column. Note the engine number.
4. **Page forward to locate the group and engine** identified above or find the appropriate page in the Table of Contents.
5. **Find the part on the illustration** and note the item number of the part or **find the part description in the parts list.**

Specification Number Index

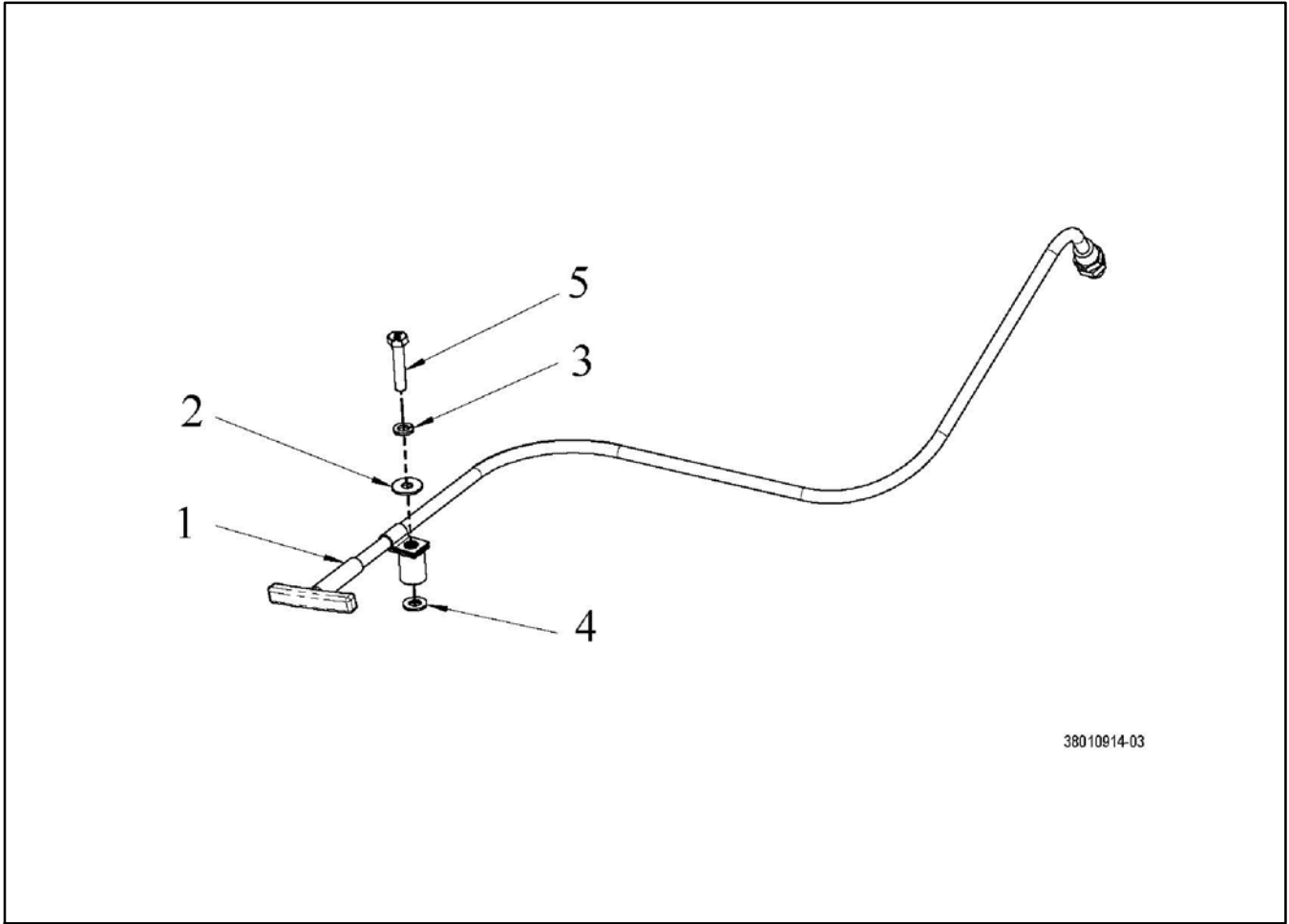
Specification Number	Engine Number
125REZGC/125ERESC	
GM81460-GA1	GM77528-1
GM81460-GA3	GM77528-1
GM81460-GA5	GM77528-1
GM81460-GA6	GM77528-1
GM81460-GA7	GM77528-1
GM81460-GA9	GM77528-1
GM99493-GA1	GM99486-1
GM99493-GA3	GM99486-1
GM99493-GA5	GM99486-1
GM99493-GA6	GM99486-1
GM99493-GA7	GM99486-1
GM99493-GA8	GM99486-1
GM99493-GA9	GM99486-1
125REZGT	
GM87010-GA1	GM77414-1
GM99497-GA1	GM99487-1
125RZGC	
GM81460-GA2	GM77528-2
GM81460-GA4	GM77528-2
GM81460-GA8	GM77528-2
GM99493-GA2	GM99486-2
GM99493-GA4	GM99486-2
150REZGC/150ERESC	
GM80580-GA1	GM77529-1
GM80580-GA3	GM77529-1
GM80580-GA5	GM77529-1
GM80580-GA7	GM77529-1
GM80580-GA8	GM77529-1
GM80580-GA9	GM77529-1
GM99599-GA1	GM99488-1
GM99599-GA3	GM99488-1
GM99599-GA5	GM99488-1
GM99599-GA7	GM99488-1
GM99599-GA8	GM99488-1
GM99599-GA9	GM99488-1
150RZGC	
GM80580-GA2	GM77529-2
GM80580-GA4	GM77529-2
GM80580-GA6	GM77529-2
GM99599-GA2	GM99488-2
GM99599-GA4	GM99488-2
GM99599-GA6	GM99488-2

1-1: Dipstick



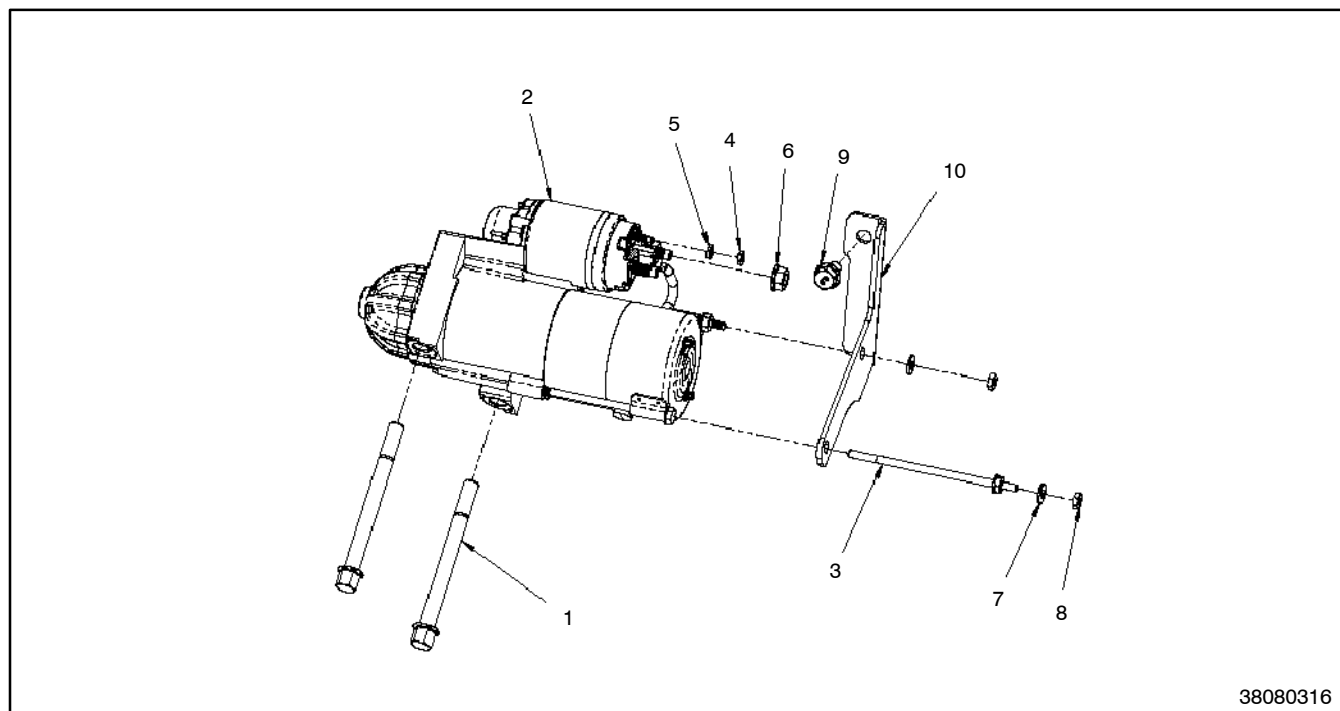
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM52279	Dipstick w/tube	1	1	1	1	1
2	#	Bolt, M8-1.25 x 40 Hx Hd Gr 8.8	1	1	1	1	1
3	GM61733	Washer	1	1	1	1	1
4	GM75194	Washer, Flat 5/16 USS	1	1	1	1	1
5	GM75195	Washer, Flat 5/16 SAE	1	1	1	1	1

1-1: Dipstick



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM52279	Dipstick w/tube	1	1	1	1	1
2	GM75194	Washer, Flat 5/16 USS	1	1	1	1	1
3	GM61733	Washer	1	1	1	1	1
4	GM75195	Washer, Flat 5/16 SAE	1	1	1	1	1

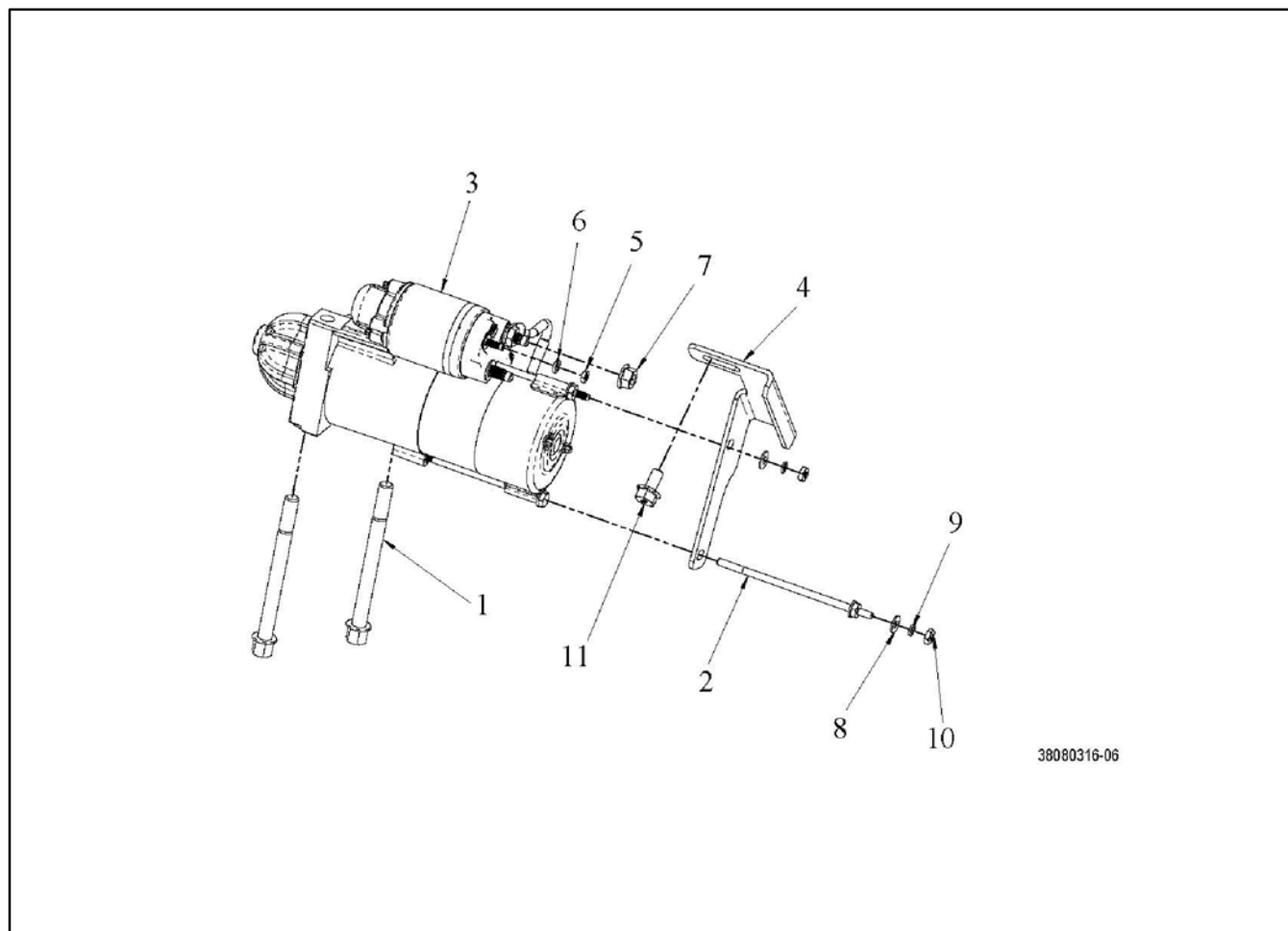
1-2: Starter



38080316

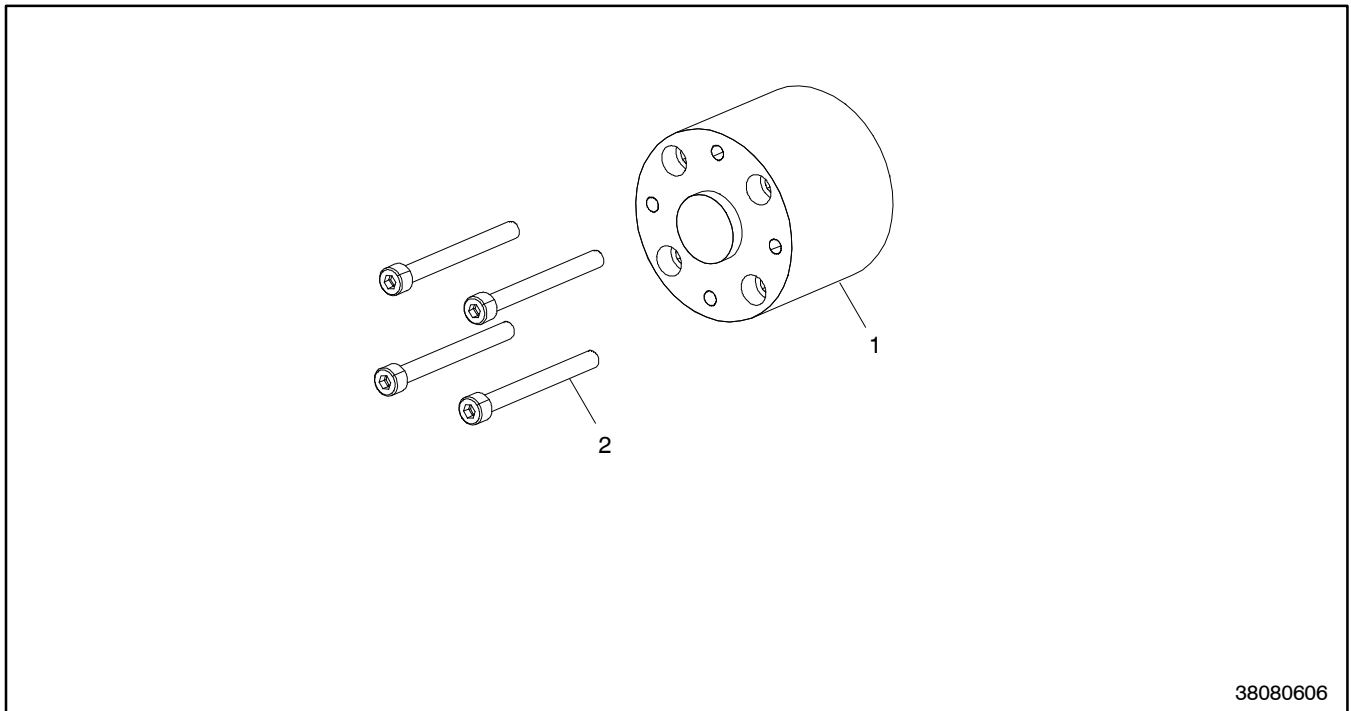
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM17378	Bolt, starter	2	2	2	2	2
2	GM94039	Starter	1	1	1	1	1
3	GM75165	Bolt, Starter Extended Thru	1	1	1	1	1
4	#	Nut	1	1	1	1	1
5	#	Washer	1	1	1	1	1
6	GM72312	Nut, M8-1.25 flange serrated	1	1	1	1	1
7	GM25975	Washer, flat	2	2	2	2	2
8	GM25977	Nut, 10-24	2	2	2	2	2
9	#	Bolt	1	1	1	1	1
10	GM87689	Starter Bracket	1	1	1	1	1

1-2: Starter



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM17378	Bolt, starter	2	2	2	2	2
2	GM75165	Bolt, Starter Extended Thru	1	1	1	1	1
3	GM94039	Starter, 8.8L	1	1	1	1	1
4	GM101418	Bracket, Starter	1	1	1	1	1
5	GM101426	Nut	1	1	1	1	1
6	GM72376	Extender, threaded rod M6-1.0	1	1	1	1	1
7	GM72312	Nut, M8-1.25 flange serrated	1	1	1	1	1
8	GM25975	Washer, flat	2	2	2	2	2
9	GM60723	#10 Lockwasher	2	2	2	2	2
9	GM47683	Washer, lock #10	2	2	2	2	2
10	GM25977	Nut, 10-24	2	2	2	2	2
11	GM101433	Screw	1	1	1	1	1

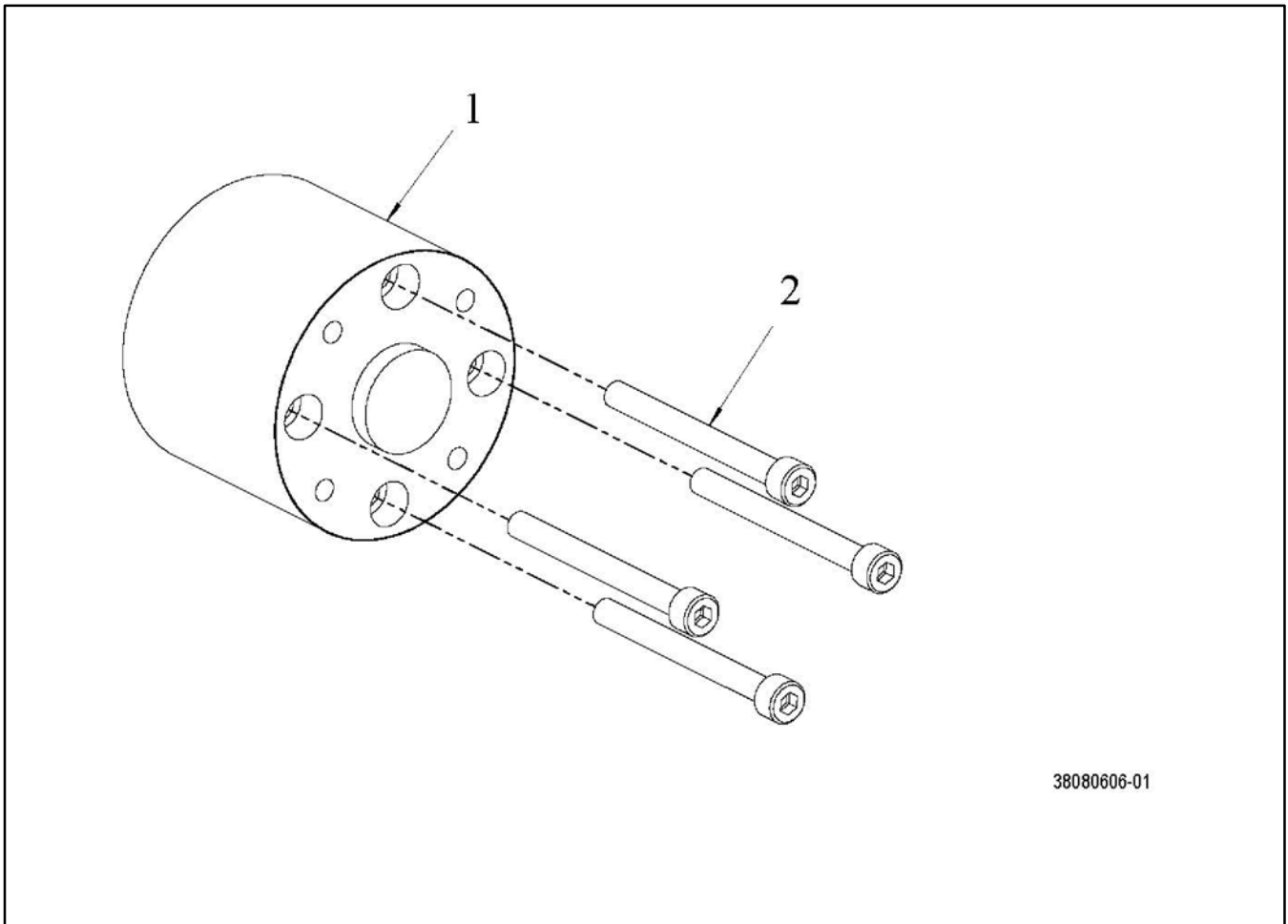
1-3: Fan Spacer



38080606

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM16147	Spacer, fan	1	1	1	1	1
2	#	Bolt, M8-1.25 x 80 Skt Hd Gr8.8	4	4	4	4	4

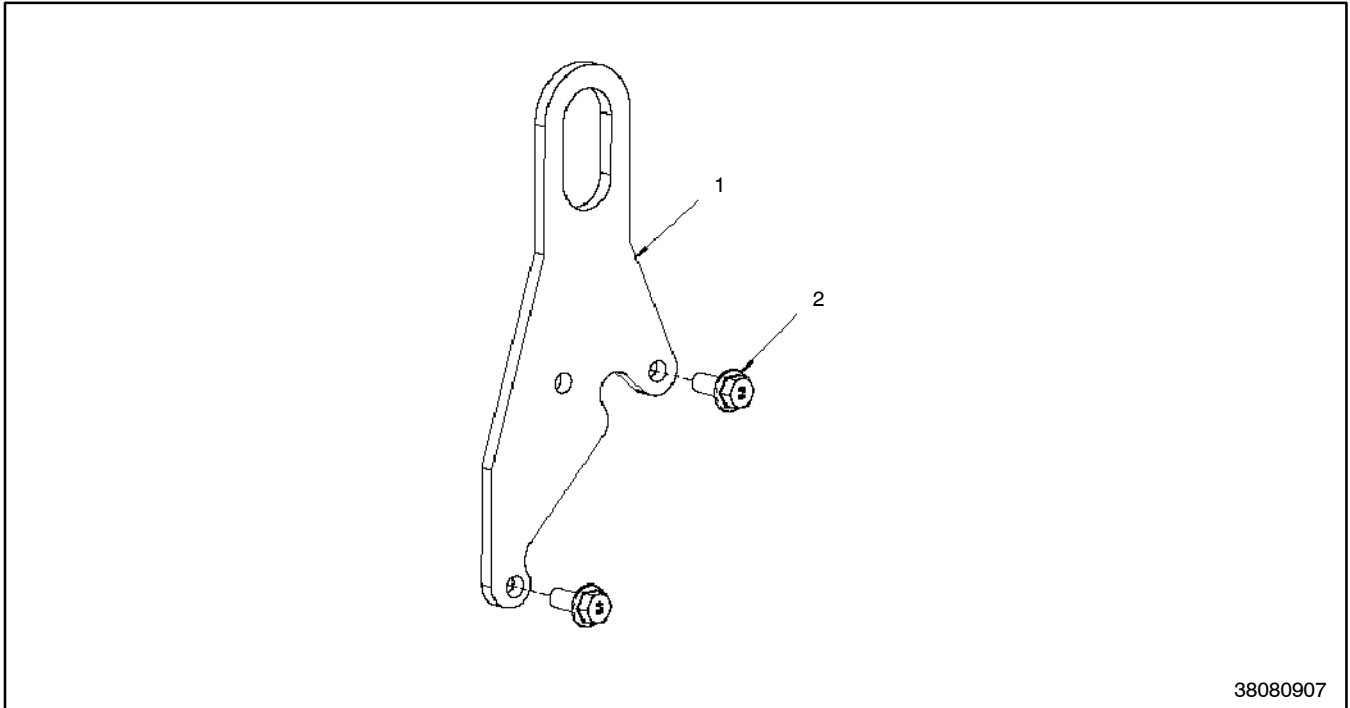
1-3: Fan Spacer



38080606-01

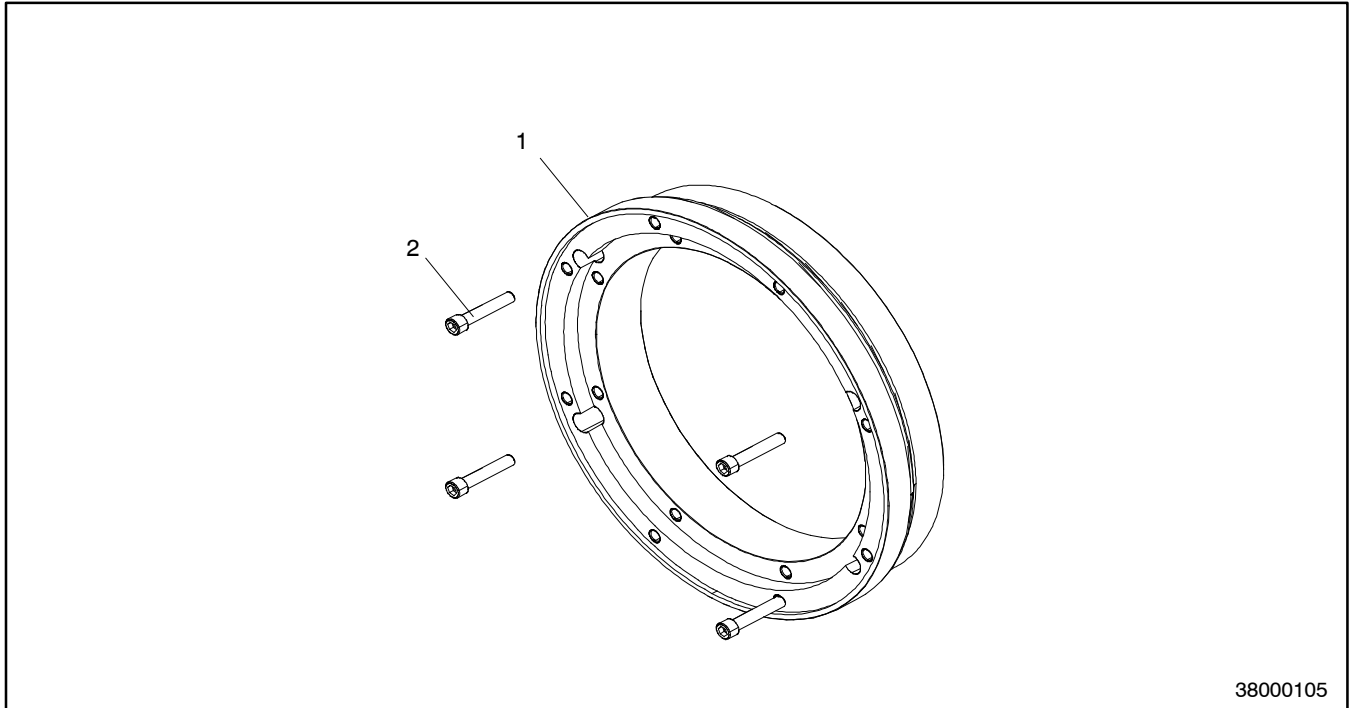
Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM16147	Spacer, fan	1	1	1	1	1
2	GM81604	Fan Spacer Bolt	4	4	4	4	4

1-4: Lifting Eye



Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87589	Lifting Eye	1	1	1	1	1
2	#	Bolt	2	2	2	2	2

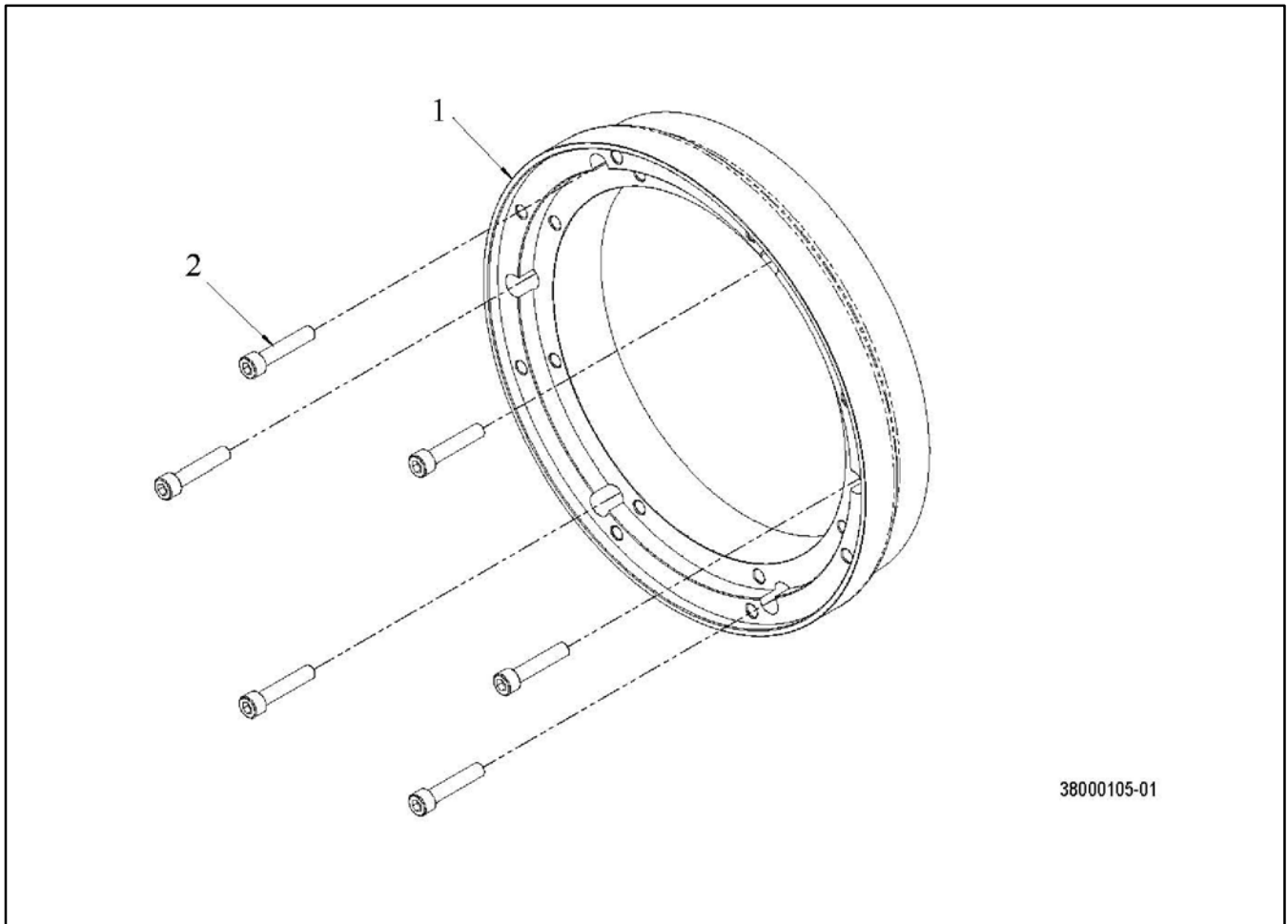
1-5: Flywheel Adapter



38000105

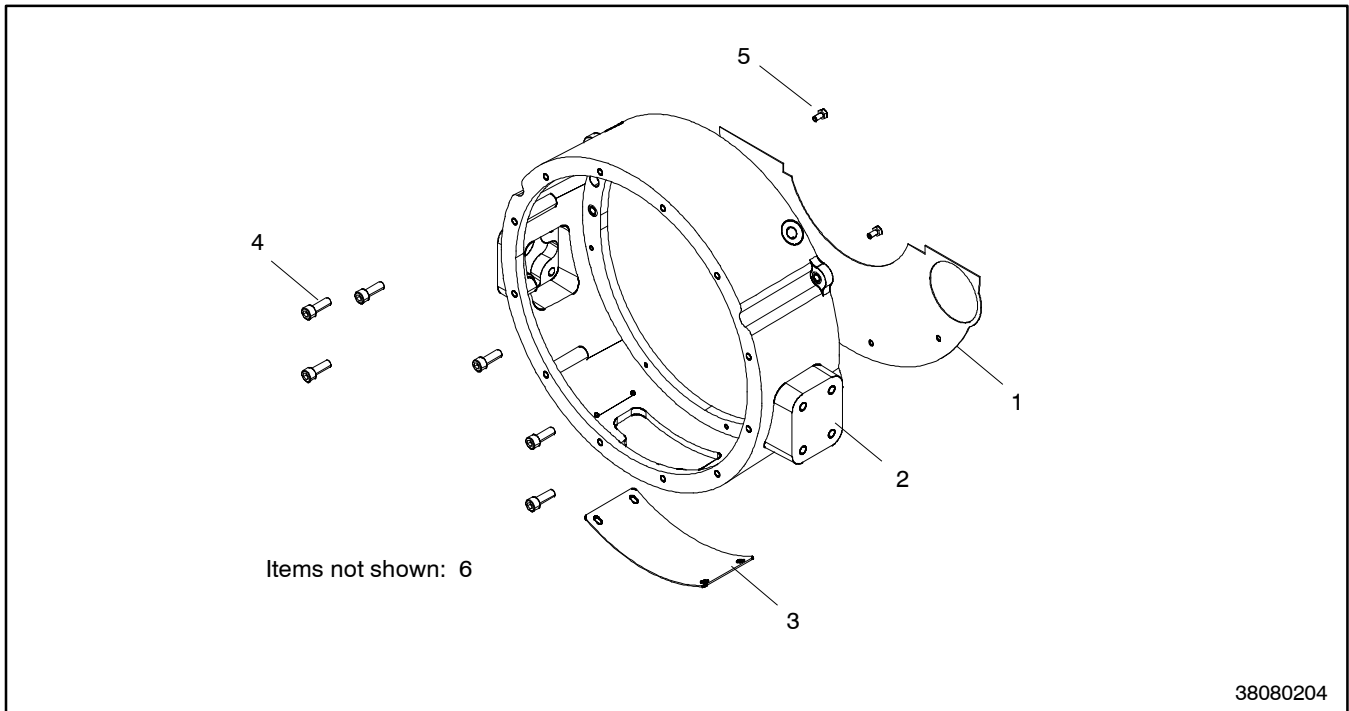
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75117	Adapter, FF Flywheel	1	1	1	1	1
2	GM73567	Screw, Cap 3/8-16 x 2 Sk tHd Gr8	6	6	6	6	6

1-5: Flywheel Adapter



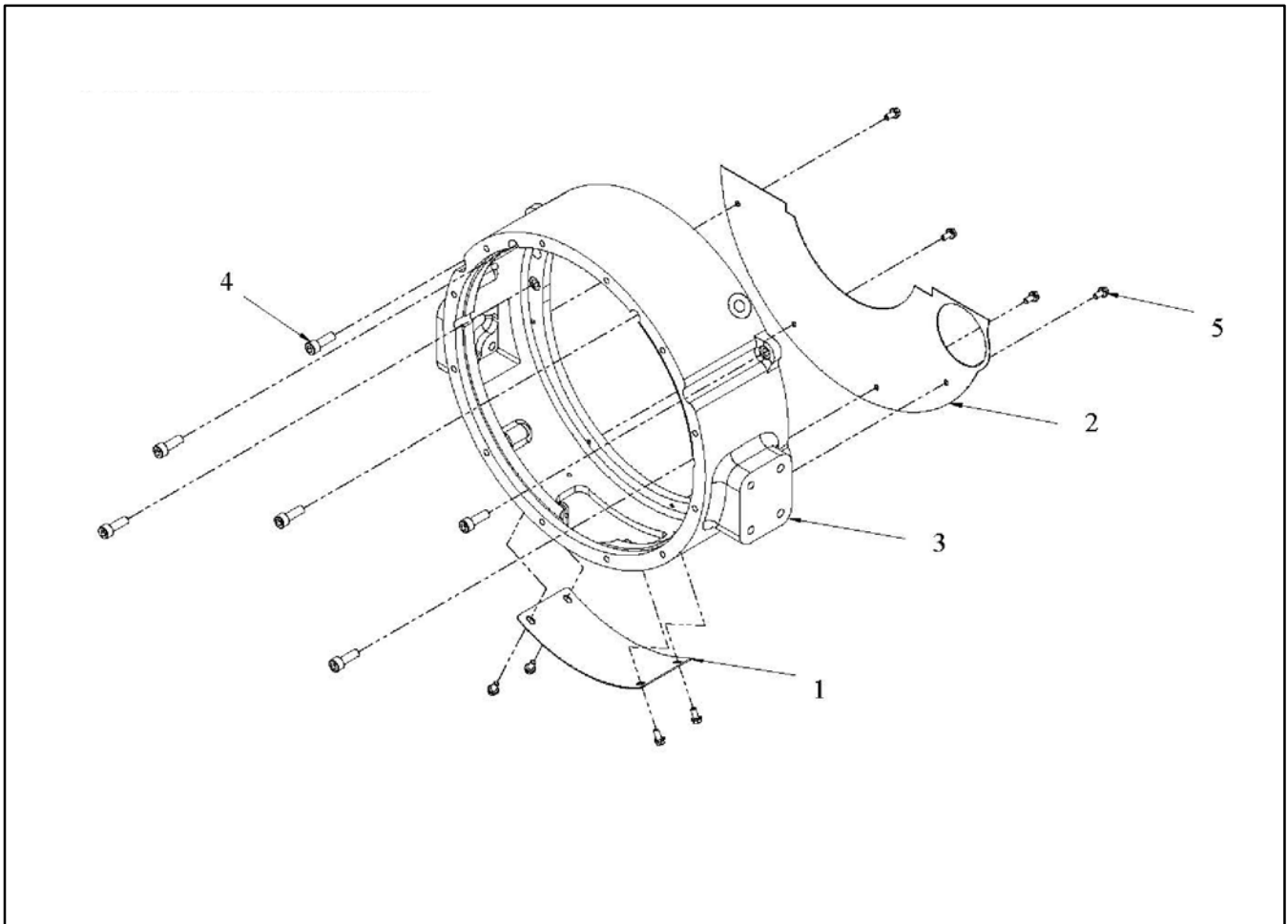
Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM75117	Adapter, Ff Flywheel	1	1	1	1	1
2	GM73567	Bolt	6	6	6	6	6

1-6: Flywheel Housing



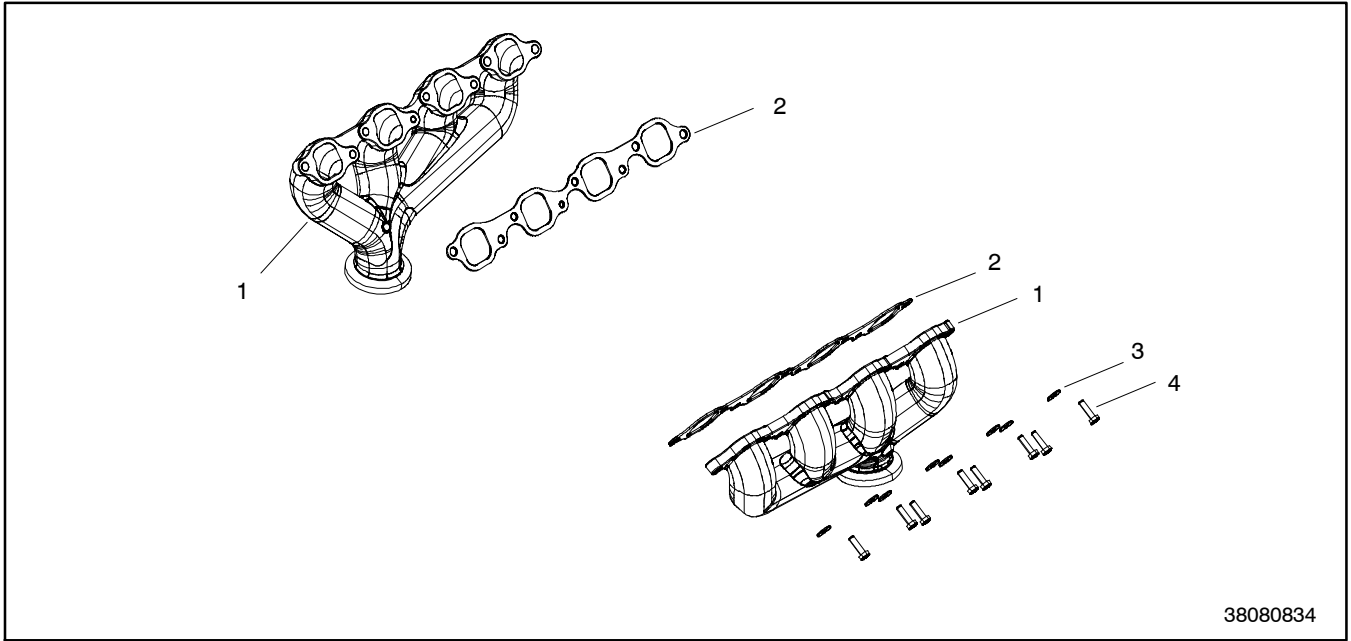
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM19723	Plate, Cover	1	1	1	1	1
2	GM75116	Housing, SAE3 Universal	1	1	1	1	1
3	GM75114	Plate, Cover Borg-Warner F/W	1	1	1	1	1
4	GM75198	Bolt, M10-1.50 x 30 Sk Hd Gr8.8	6	6	6	6	6
5	#	Bolt, 1/4-20x1/2 Flange Hd Ser	8	8	8	8	8
6	#	Bolt, 5/8-18 x 1 Hx Hd Zinc	1	1	1	1	1

1-6: Flywheel Housing



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM75114	Plate, Cover F/W	1	1	1	1	1
2	GM19723	Plate, cover	1	1	1	1	1
3	GM75116	Housing, SAE3	1	1	1	1	1
4	GM75198	Bolt, M10-1.50 X 30 Skhd Gr8.8	6	6	6	6	6
5	GM101434	Bolt	8	8	8	8	8

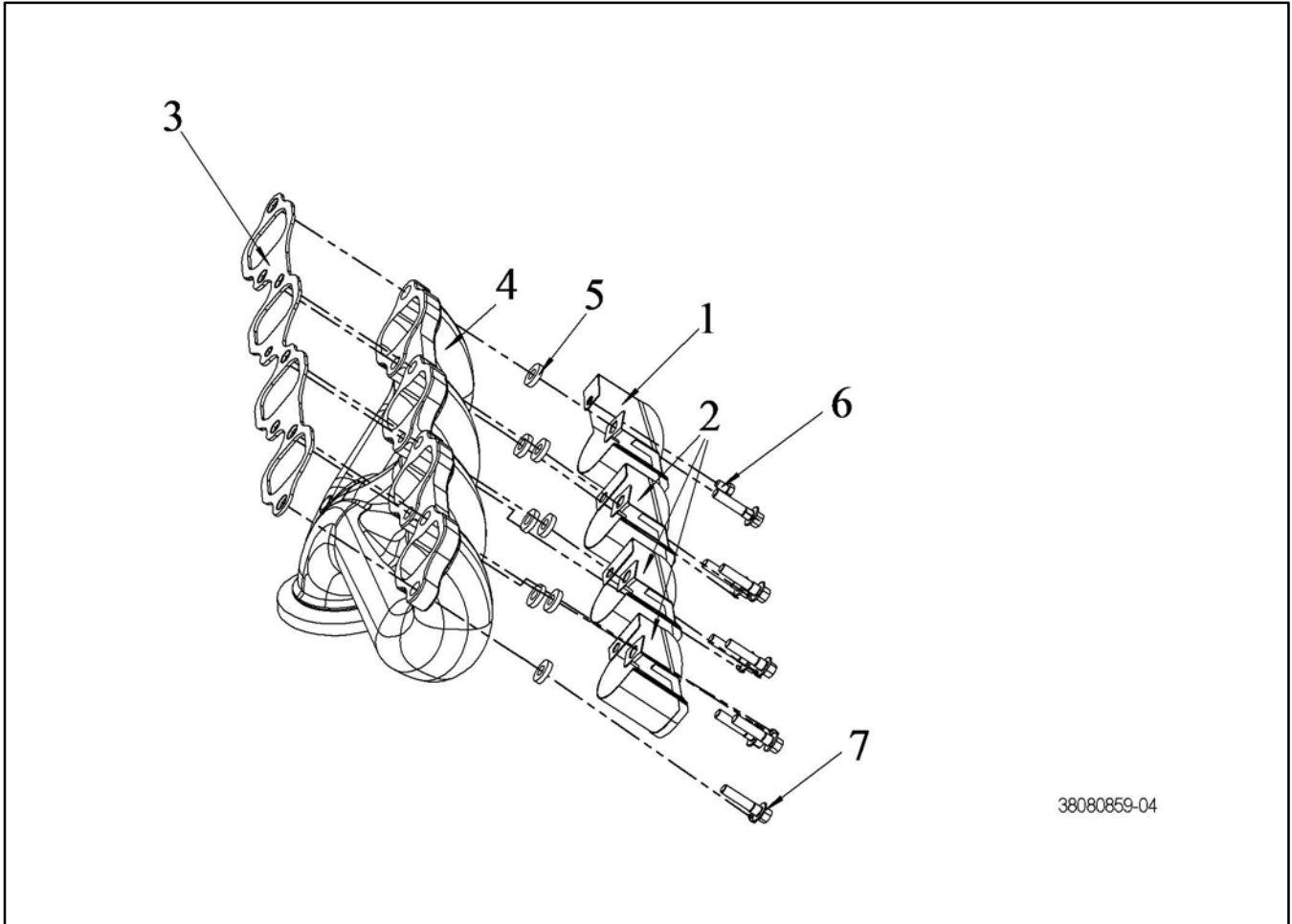
1-7: Exhaust Manifold



38080834

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75182	Manifold	2	2	2	2	2
2	GM19721	Gasket, exhaust manifold	2	2	2	2	2
3	#	Washer, Flat 5/16 Thick Hard	16	16	16	16	16
4	GM23738	Bolt, M8-1.25 x 30	16	16	16	16	16

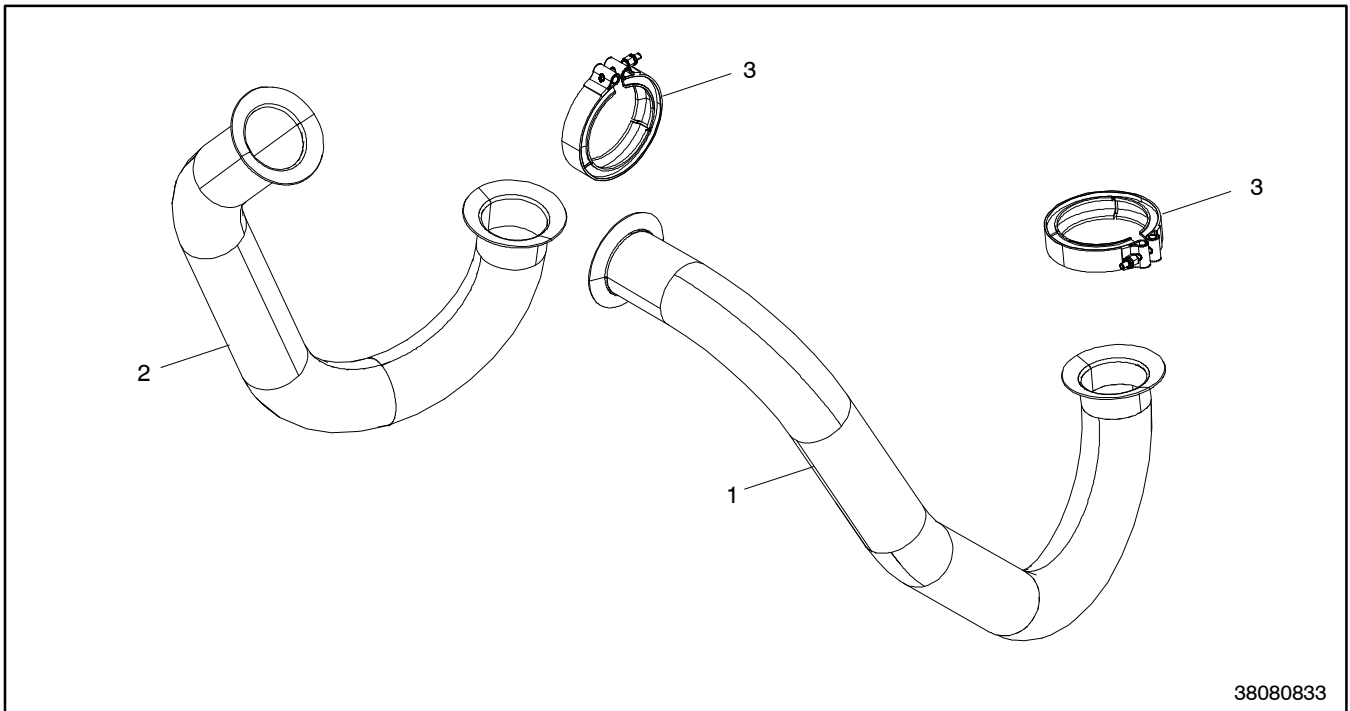
1-7: Exhaust Manifold



38080859-04

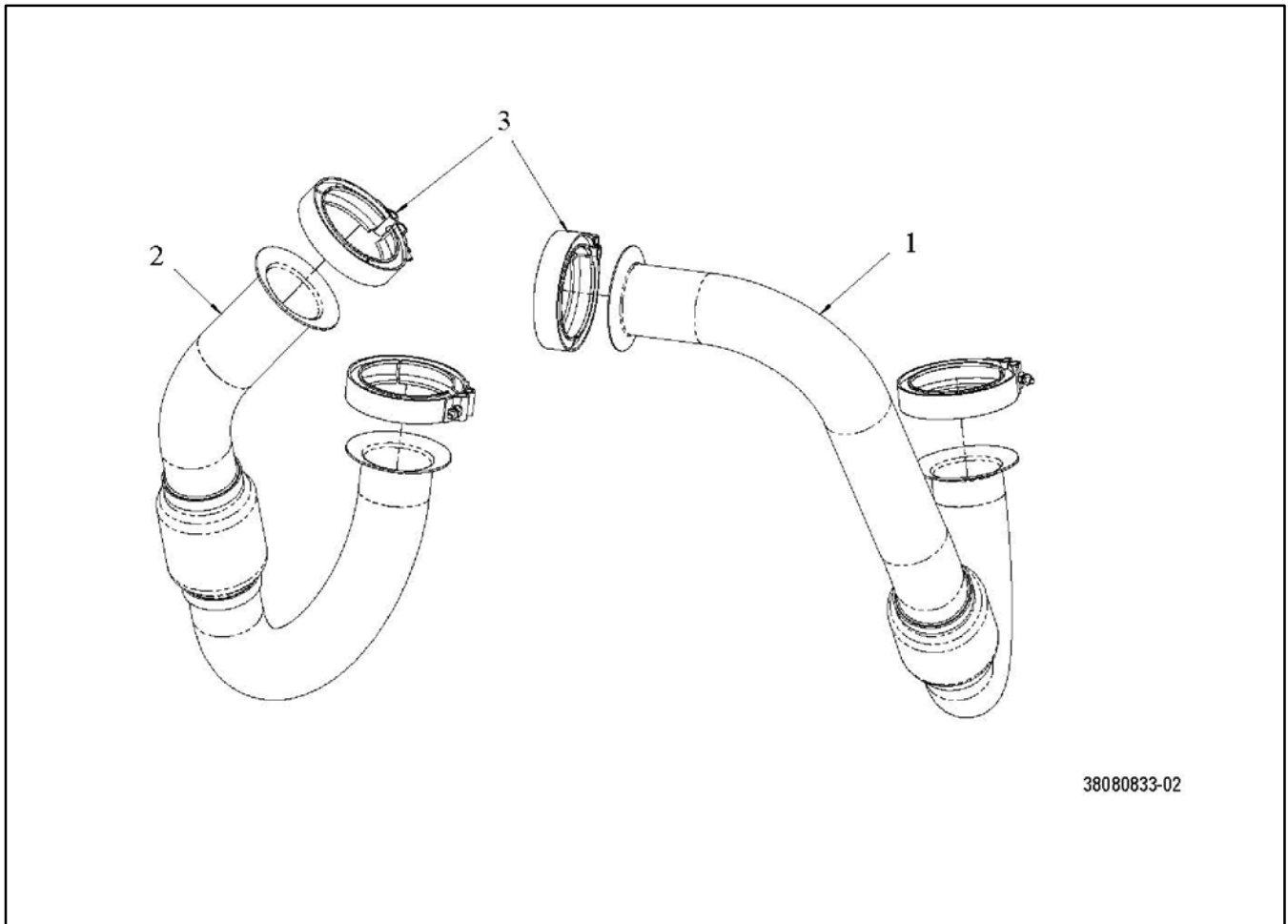
Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM101419	Shield, Cylinder	2	2	2	2	2
2	GM101420	Shield, Cylinder	6	6	6	6	6
3	GM19721	Gasket, exhaust manifold	2	2	2	2	2
4	GM101424	Manifold, Exhaust	2	2	2	2	2
5	GM101441	Washer	16	16	16	16	16
6	GM101431	Bolt	2	2	2	2	2
7	GM101440	Bolt	16	16	16	16	16

1-8: Exhaust Pipe



Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75184	Tube, RH Exhaust	1	1	1	1	1
2	GM75185	Tube, LH Exhaust	1	1	1	1	1
3	GM75191	Clamp, V-Band 3.87" dia	4	4	4	4	4

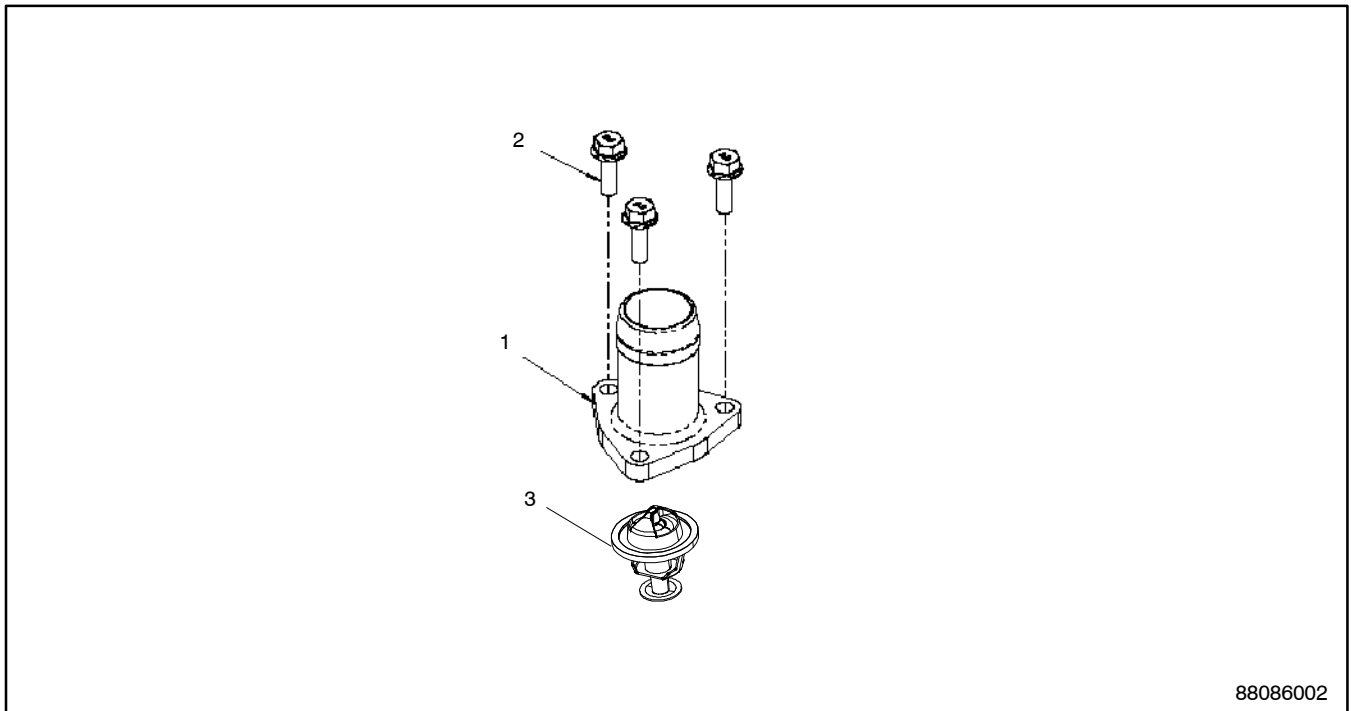
1-8: Exhaust Pipe



38080833-02

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM75184	Tube, RH Exhaust	1	1	1	1	1
2	GM75185	Tube, LH Exhaust	1	1	1	1	1
3	GM75191	Clamp, V-Band 3.87" Dia	4	4	4	4	4

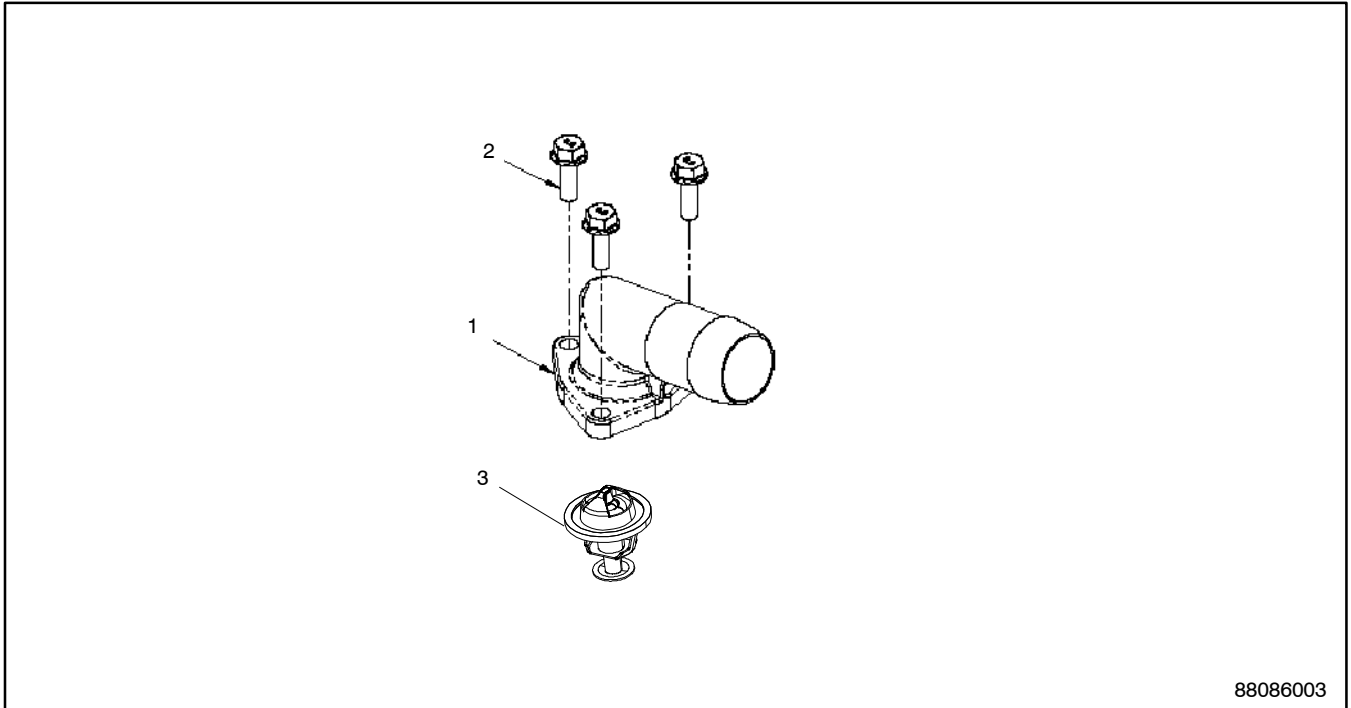
1-9: Thermostat



88086002

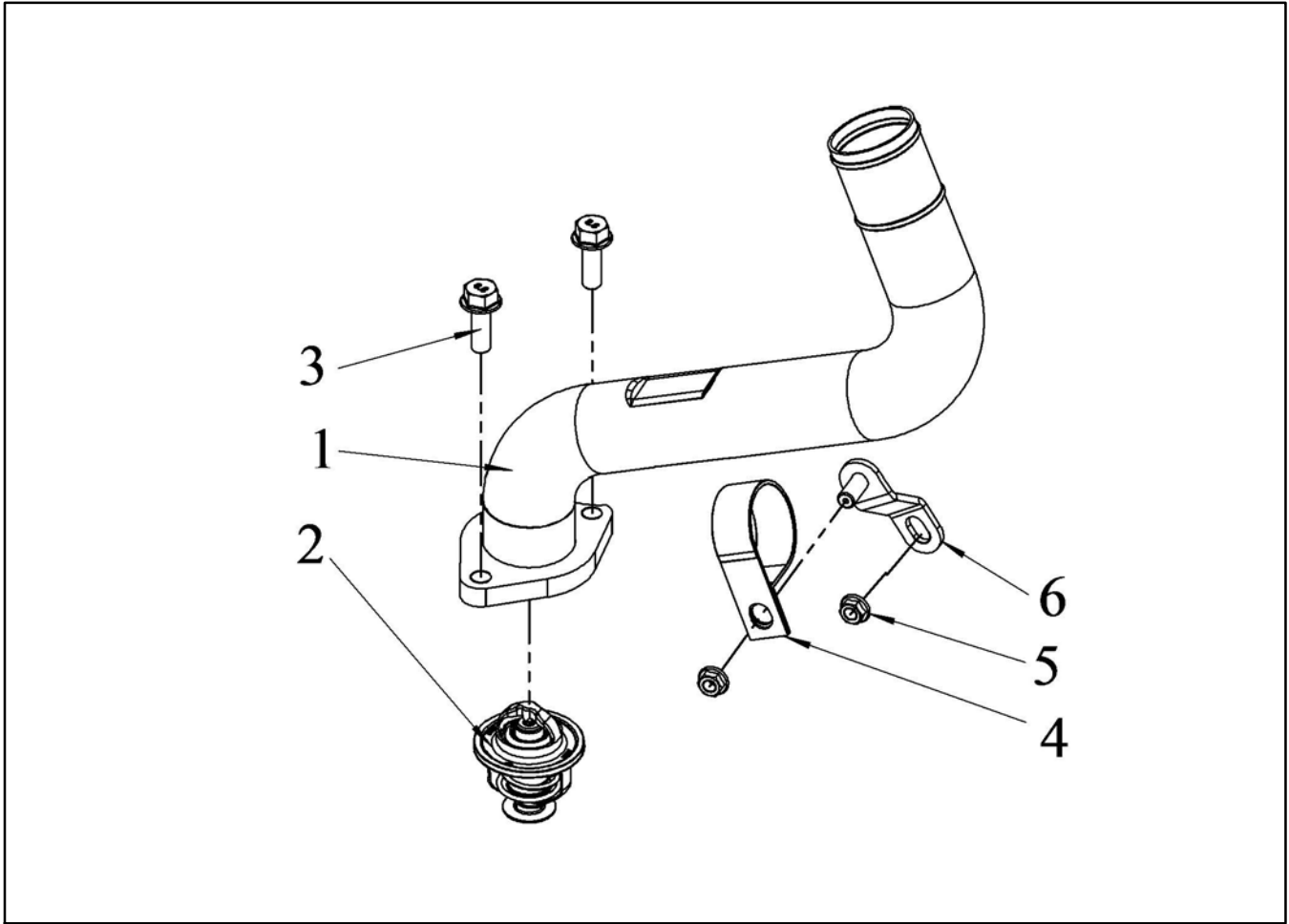
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87600	Thermostat Outlet	1	1	1		
2	GM87617	Bolt	3	3	3		
3	GM87618	Thermostat	1	1	1		

1-9: Thermostat, continued



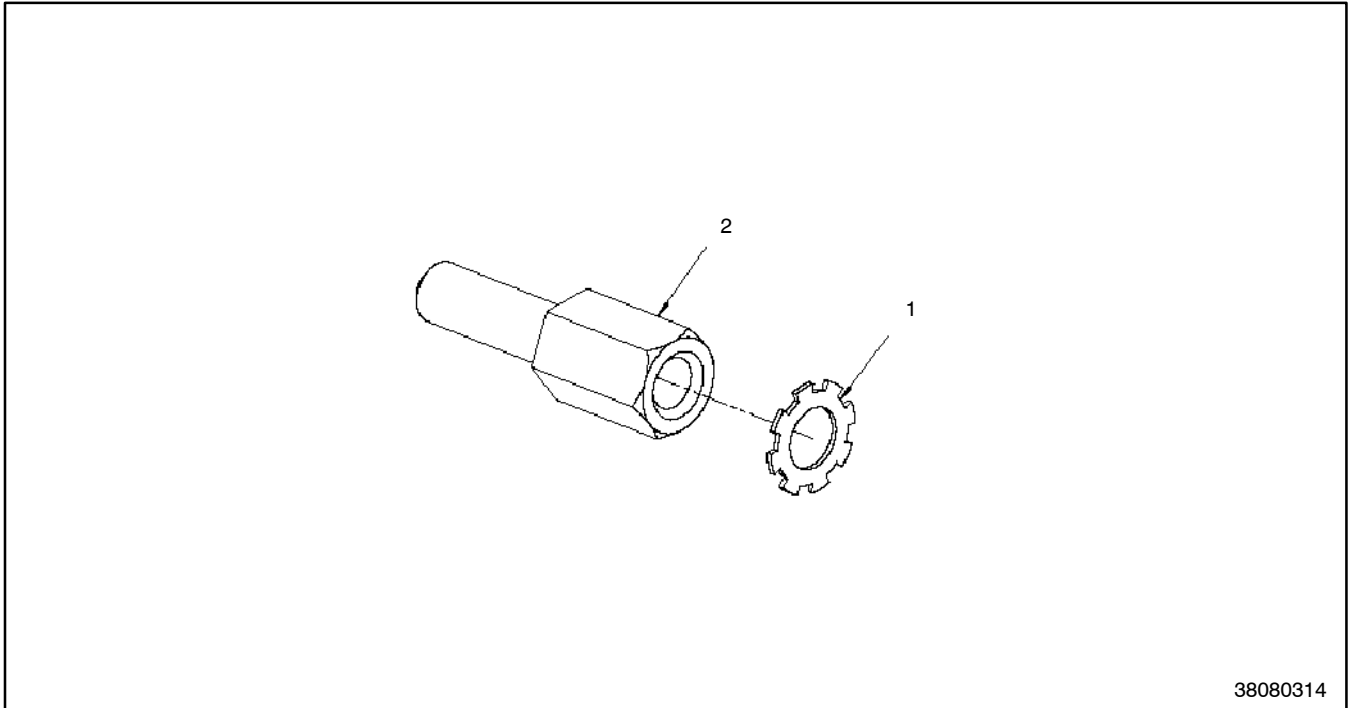
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87594	Coolant Elbow				1	1
2	GM87617	Bolt				3	3
3	GM87618	Thermostat				1	1

1-9: Thermostat, continued



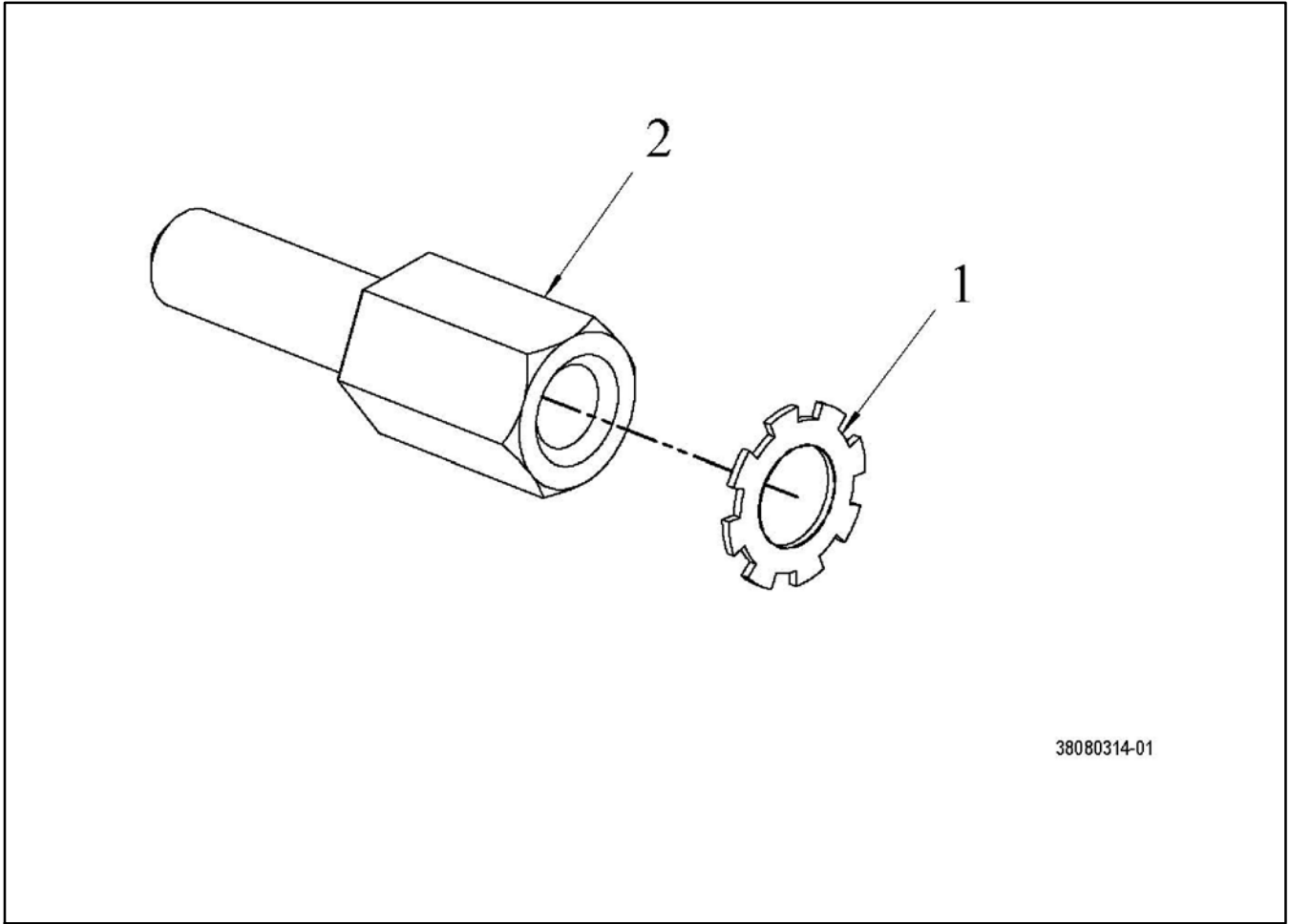
Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM101407	Thermostat outlet	1	1			
2	GM87618	Thermostat	1	1	1	1	1
3	GM87617	Bolt	2	2	2	2	2
4	GM101408	P-Clamp	1	1	1	1	1
5	#	Nut	2	2	2	2	2
6	GM101409	Bracket	1	1	1	1	1

1-10: Starter Stud



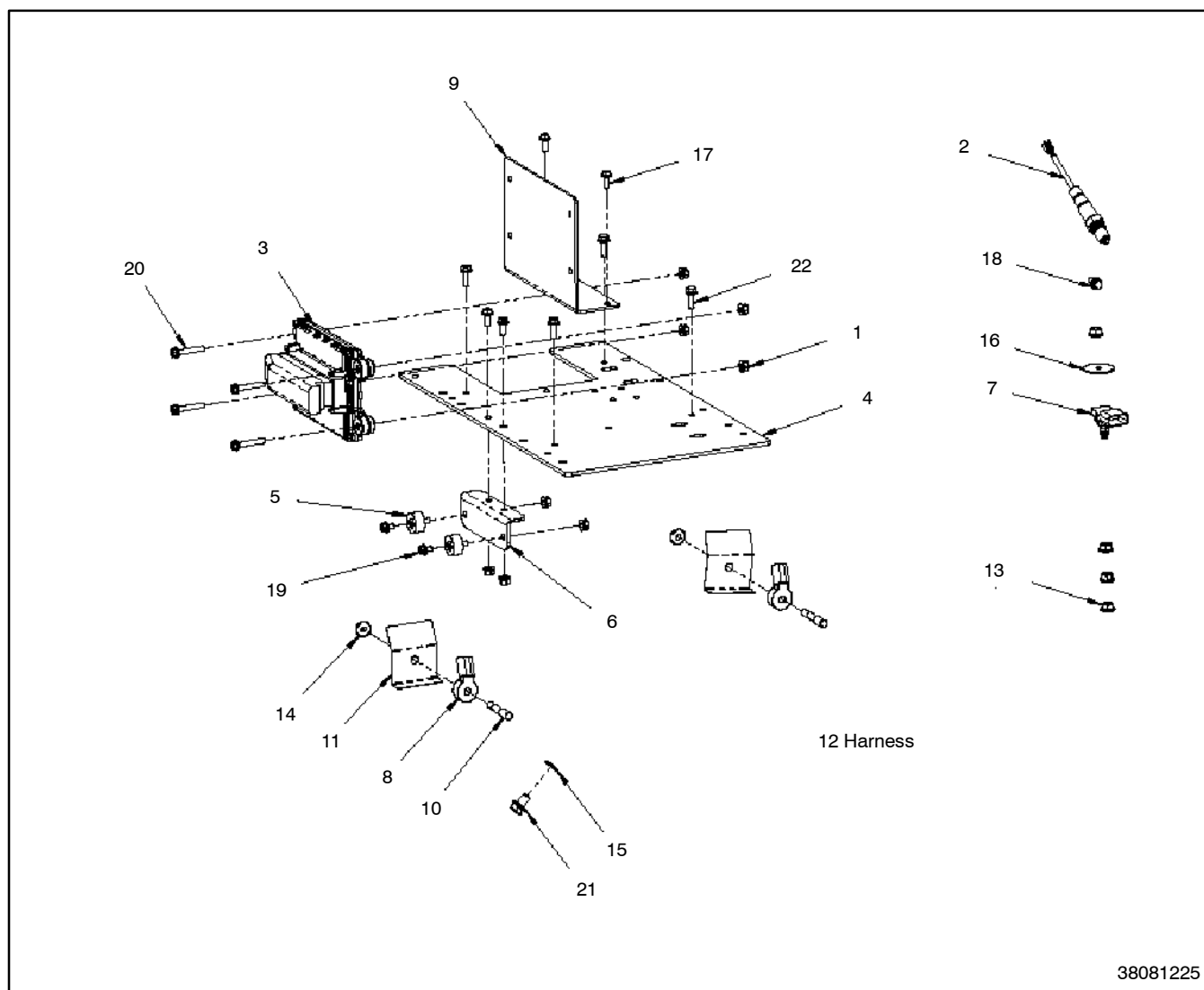
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	#	Washer	1	1	1	1	1
2	GM53103	Starter Adapter	1	1	1	1	1

1-10: Starter Stud



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM101406	Washer, Star	1	1	1	1	1
2	GM53103	Starter Adapter	1	1	1	1	1

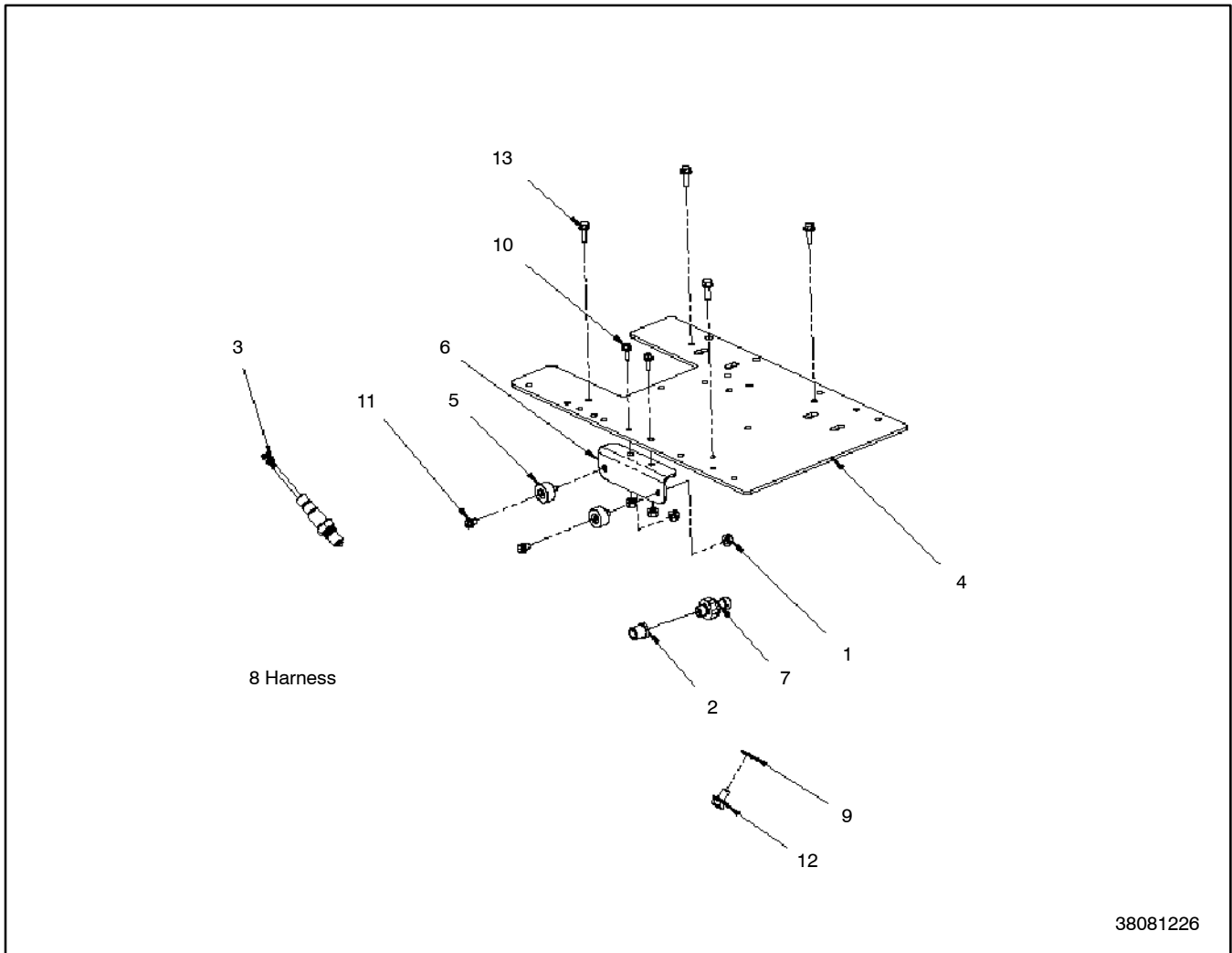
1-11: Wiring



38081225

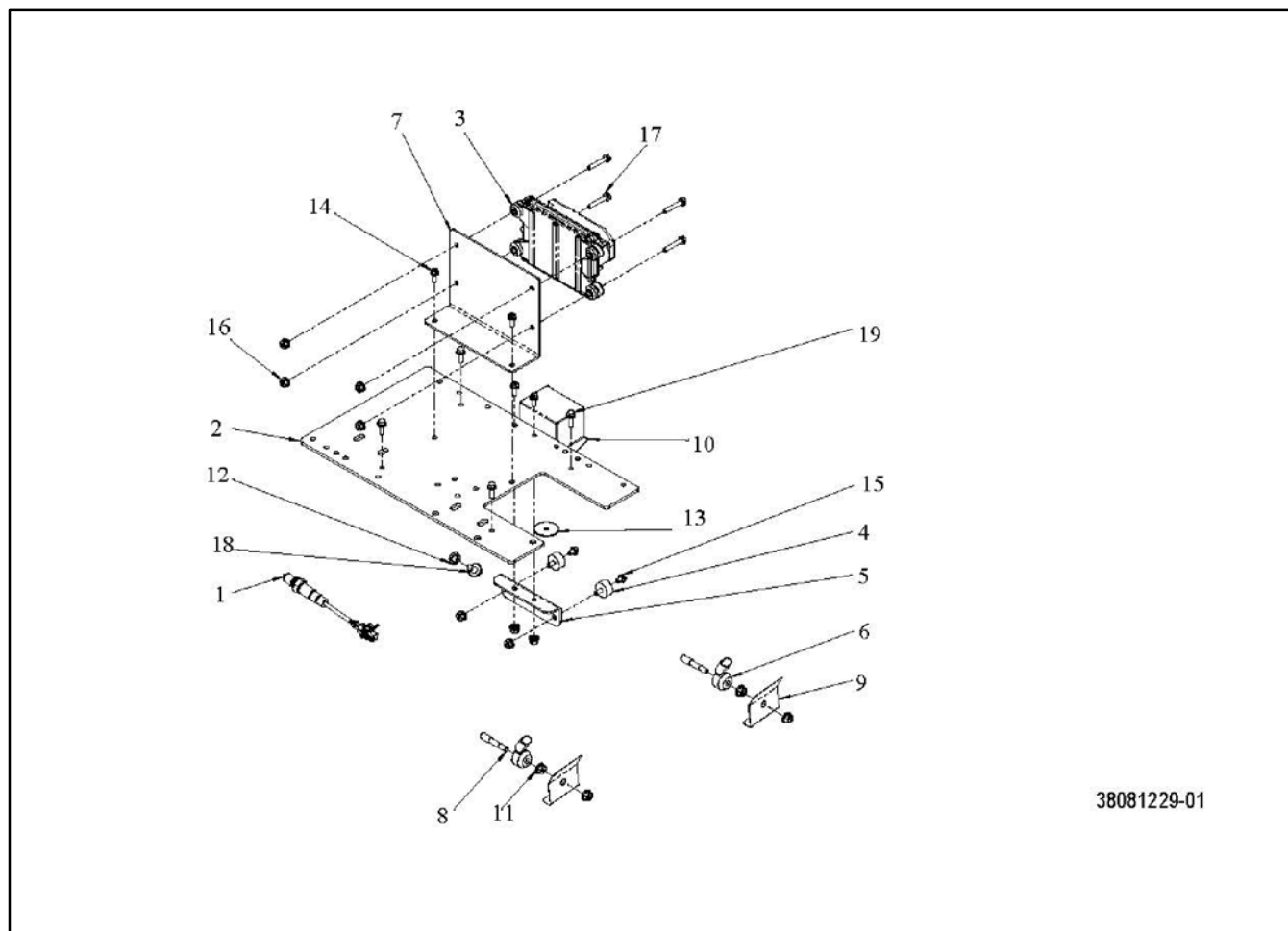
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75103	Nut, Flange 1/4-20 Serrated		8	8	8	8
2	GM72292	Sensor, O2		1	1	1	1
3	GM87945	ECM, 125 kW		1	1	1	1
3	GM87946	ECM, 150 kW		1	1	1	1
4	GM87604	Plate		1	1	1	1
5	GM29604	Isolator, relay box		2	2	2	2
6	GM87607	Relay Bracket		1	1	1	1
7	GM72302	Sensor, T map 3-bar		1	1	1	1
8	GM72304	Sensor, knock		2	2	2	2
9	GM75168	Bracket, Gcp Mount		1	1	1	1
10	GM75169	Stud, Knock Sensor Mounting		2	2	2	2
11	GM75171	Guard, Knock Sensor		2	2	2	2
12	GM87609	Harness		1	1	1	1
13	GM72312	Nut, M8-1.25 flange serrated		4	4	4	4
14	#	Nut		2	2	2	2
15	#	Washer		1	1	1	1
16	GM87612	Washer		1	1	1	1
17	#	Bolt		4	4	4	4
18	GM87613	Bolt		1	1	1	1
19	#	Bolt		2	2	2	2
20	#	Bolt		4	4	4	4
21	#	Bolt		1	1	1	1
22	GM72327	Bolt, M6-1.0 x 20 flange head		4	4	4	4

1-11: Wiring



Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75103	Nut, Flange 1/4-20 Serrated	4				
2	GM75125	Bushing, 3/8MPT X 1/4FPT	1				
3	GM72292	Sensor, O2	1				
4	GM87604	Plate	1				
5	GM29604	Isolator, relay box	2				
6	GM29605	Bracket, relay box	1				
7	GM72303	Sender, oil pressure	1				
8	GM87610	Harness	1				
9	#	Washer	1				
10	#	Bolt	2				
11	#	Bolt	2				
12	#	Bolt	1				
13	GM72327	Bolt, M6-1.0 x 20 flange head	4				

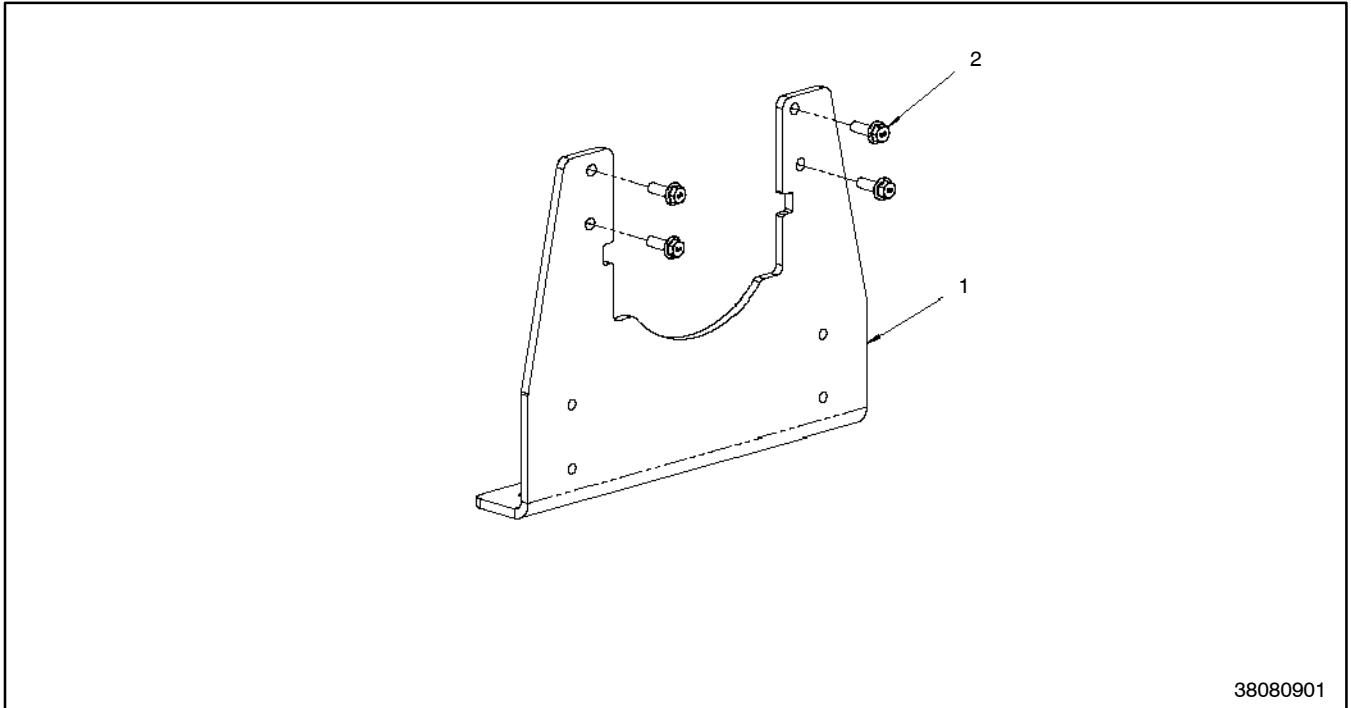
1-11: Wiring



38081229-01

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM72292	Sensor, O2	1	1	1	1	1
2	GM87604	Plate	1	1	1	1	1
3	GM101442	ECU, Programmed	1				
3	GM101445	ECU, Programmed		1			
3	GM101444	ECU, Programmed			1		
3	GM101446	ECU, Programmed				1	
3	GM101443	ECU, Programmed					1
4	GM29604	Isolator, relay box	2	2	2	2	2
5	GM29605	Bracket, relay box	1	1	1	1	1
6	GM72304	Sensor, knock	2	2	2	2	2
7	GM75168	Bracket, Gcp Mount	1	1	1	1	1
8	GM75169	Stud, Knock Sensor Mounting	2	2	2	2	2
9	GM75171	Guard, Knock Sensor	2	2	2	2	2
10	GM101421	Harness, Engine	1	1		1	1
10	GM101497	Harness, Engine			1		
11	GM101427	Nut	4	4	4	4	4
12	GM101430	Washer, Star	1	1	1	1	1
13	GM87612	Washer	1	1	1	1	1
14	GM101432	Bolt	4	4	4	4	4
15	GM101435	Bolt	2	2	2	2	2
16	GM101436	Nut, Flange 1/4	8	8	8	8	8
17	GM101437	Bolt	4	4	4	4	4
18	GM101438	Bolt	1	1	1	1	1
19	GM72327	Bolt, M6-1.0 x 20 flange head	4	4	4	4	4

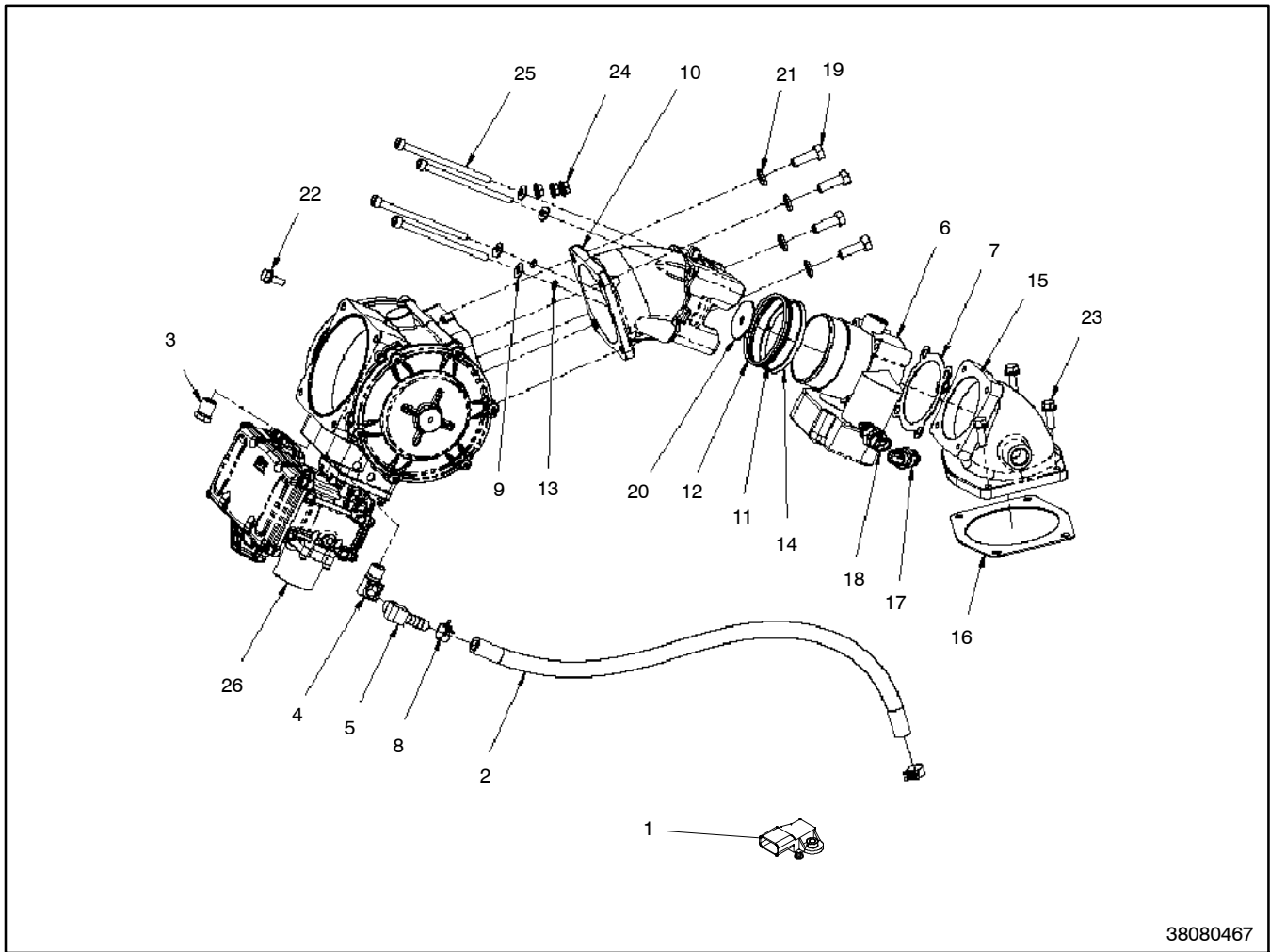
1-12: Front Mount



38080901

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM19724	Mount, front engine	1	1	1	1	1
2	GM72382	Bolt	4	4	4	4	4

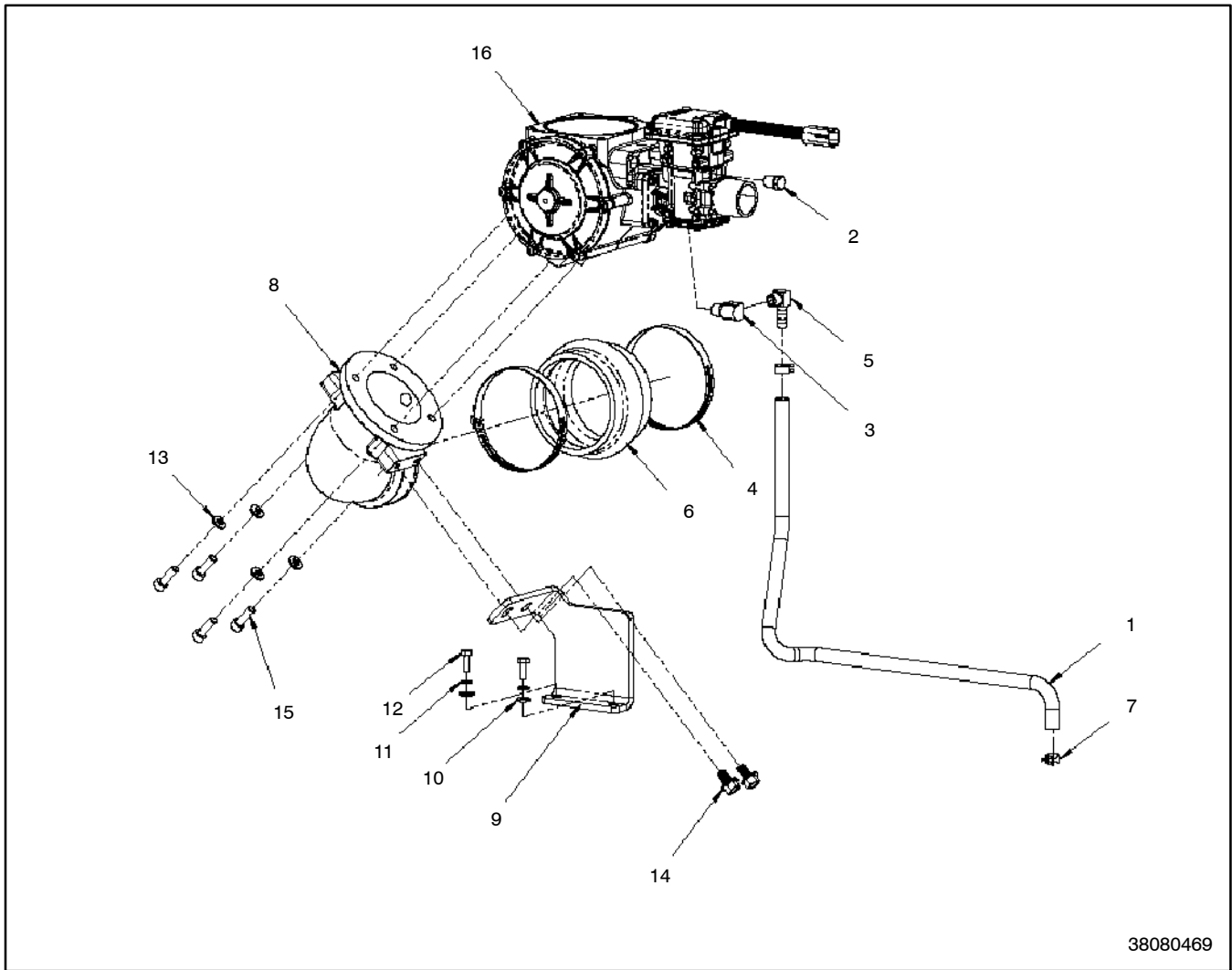
1-13-1: Fuel System



38080467

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87593	Map Sensor	1				
2	GM16158	Hose, PCV, 3/8"					
3	GM38939	Fitting, 3/8 MPT Plug, Hex	1				
4	GM73579	Elbow	1				
5	GM38928	Fitting, intake manifold vac	1				
6	GM29586	Valve, throttle, 60 mm	1				
7	GM29592	Gasket (manifold adapter)	1				
8	GM69488	Clamp, hose 3/8 (spring type)	2				
9	GM75132	Washer, M6 Conical	4				
10	GM69499	Adapter, mixer	1				
11	GM69503	Seal	1				
12	GM69504	O-ring	1				
13	GM69510	O-ring	2				
14	GM75150	Spacer	1				
15	GM87605	Throttle Body Adaptor	1				
16	GM87606	Elbow Gasket	1				
17	GM39601	Sensor, coolant temperature	1				
18	GM29609	Sensor, inlet air	1				
19	GM69518	Bolt, M8 x 1.25 x 25 hex head, gr. 8.8	4				
20	GM87612	Washer	1				
21	GM69521	Washer, M8	4				
22	GM87613	Bolt	1				
23	GM72327	Bolt, M6-1.0 x 20 flange head	4				
24	GM72328	Nut	3				
25	GM87615	Bolt	4				
26	-	EPR (See group 1-13-2)	1				

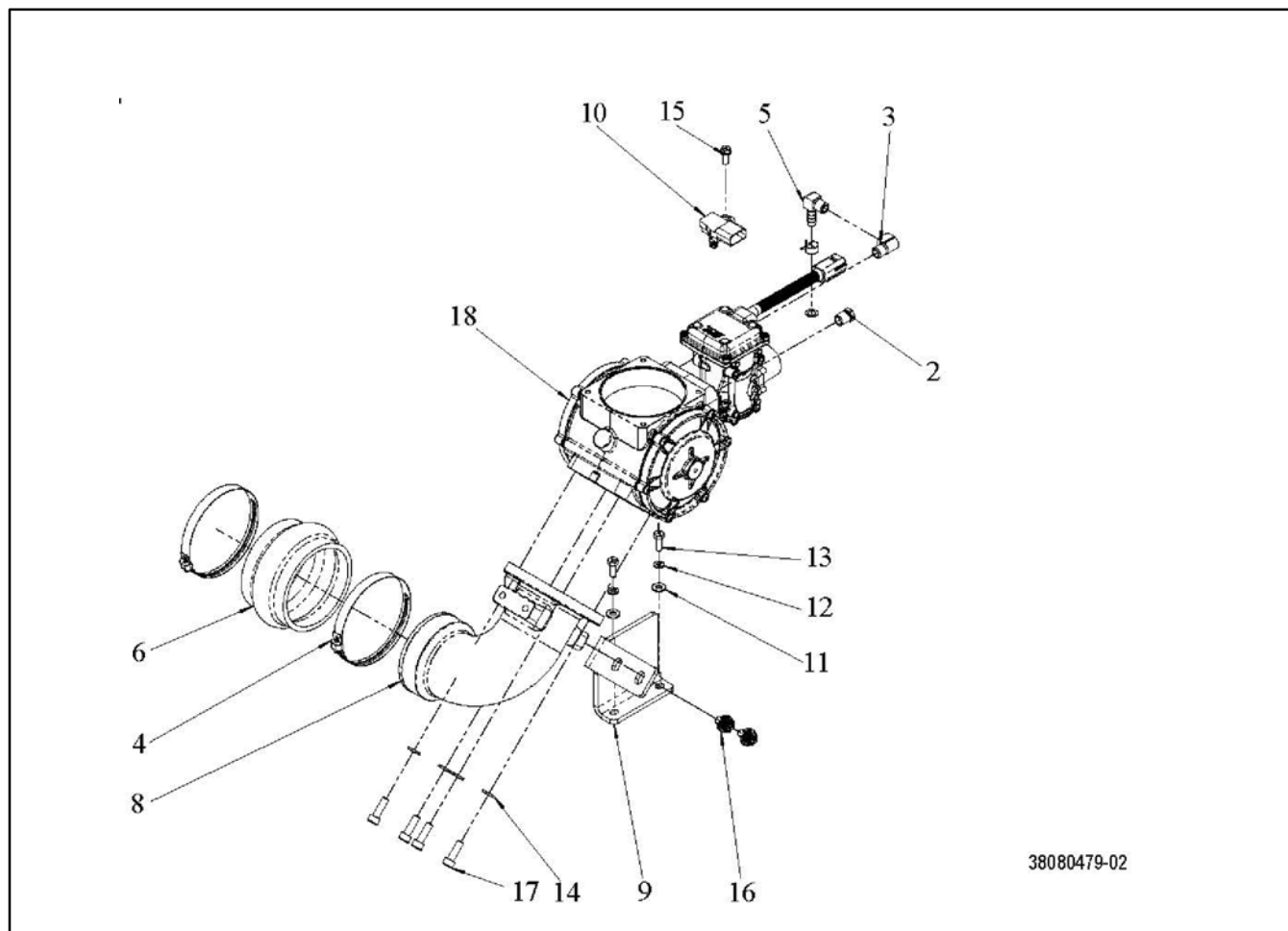
1-13-1: Fuel System



38080469

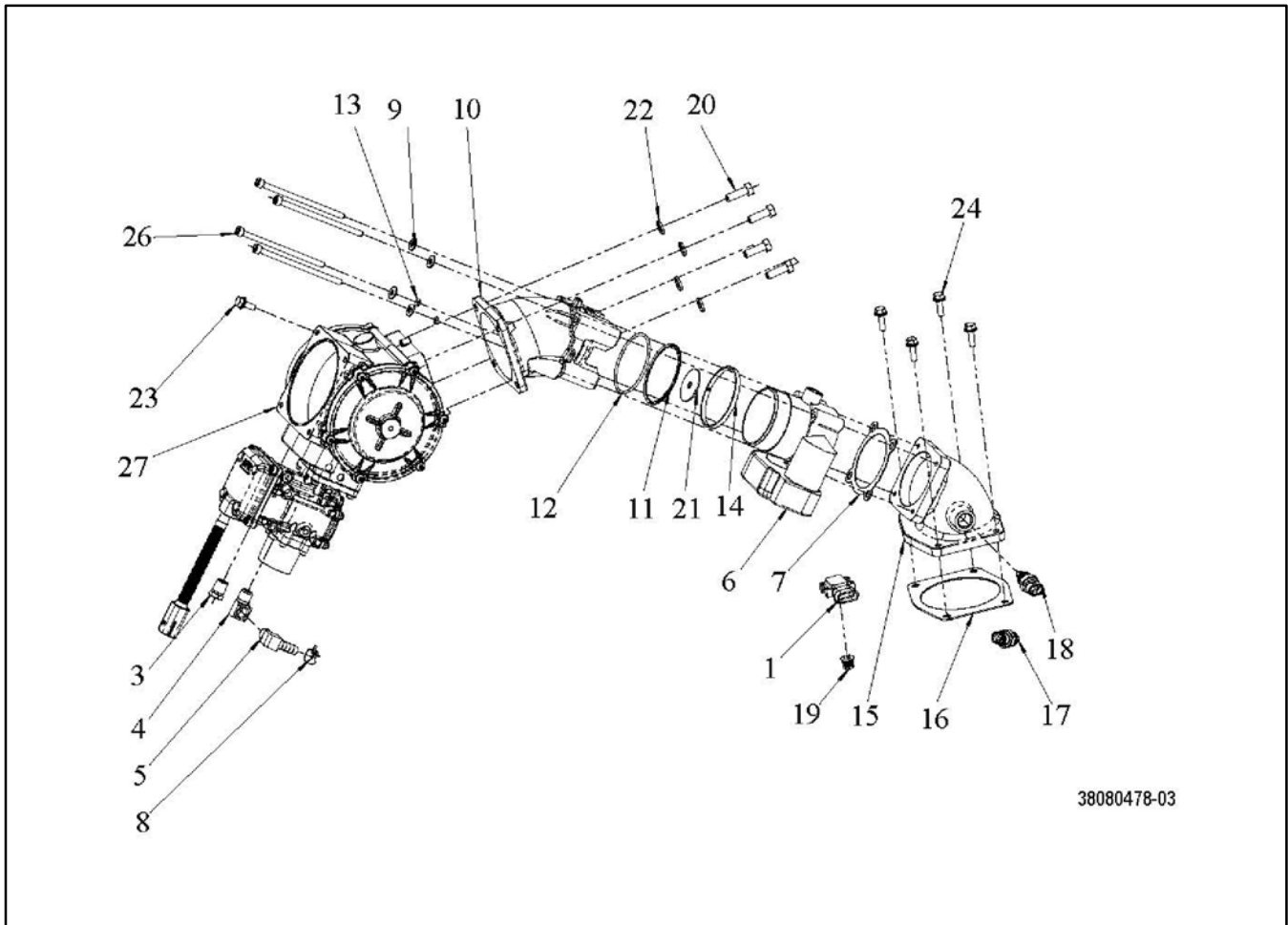
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM16158	Hose, PCV, 3/8"					
2	GM38939	Fitting, 3/8 MPT Plug, Hex		1	1	1	1
3	GM73579	Elbow		1	1	1	1
4	GM28915	Clamp, hose, 5 in.		2	2	2	2
5	GM38928	Fitting, intake manifold vac		1	1	1	1
6	GM66214	Hose, hump, intake 4 x 4		1	1	1	1
7	GM69488	Clamp, hose 3/8 (spring type)		2	2	2	2
8	GM69502	Elbow, mixer to turbo		1	1	1	1
9	GM87602	Support Bracket		1	1	1	1
10	GM28960	Washer, flat SAE		2	2	2	2
11	GM24188	Washer, lock 1/4 in.		2	2	2	2
12	GM28961	Bolt, 1/4-20 x 3/4 in.hex grd. 5		2	2	2	2
13	GM69521	Washer, M8		4	4	4	4
14	GM87614	Bolt		2	2	2	2
15	GM69522	Bolt, M8 x 1.25 x 25 hex head		4	4	4	4
16	GM72329	E480 EPR kit		1	1	1	1

1-13-1: Fuel System



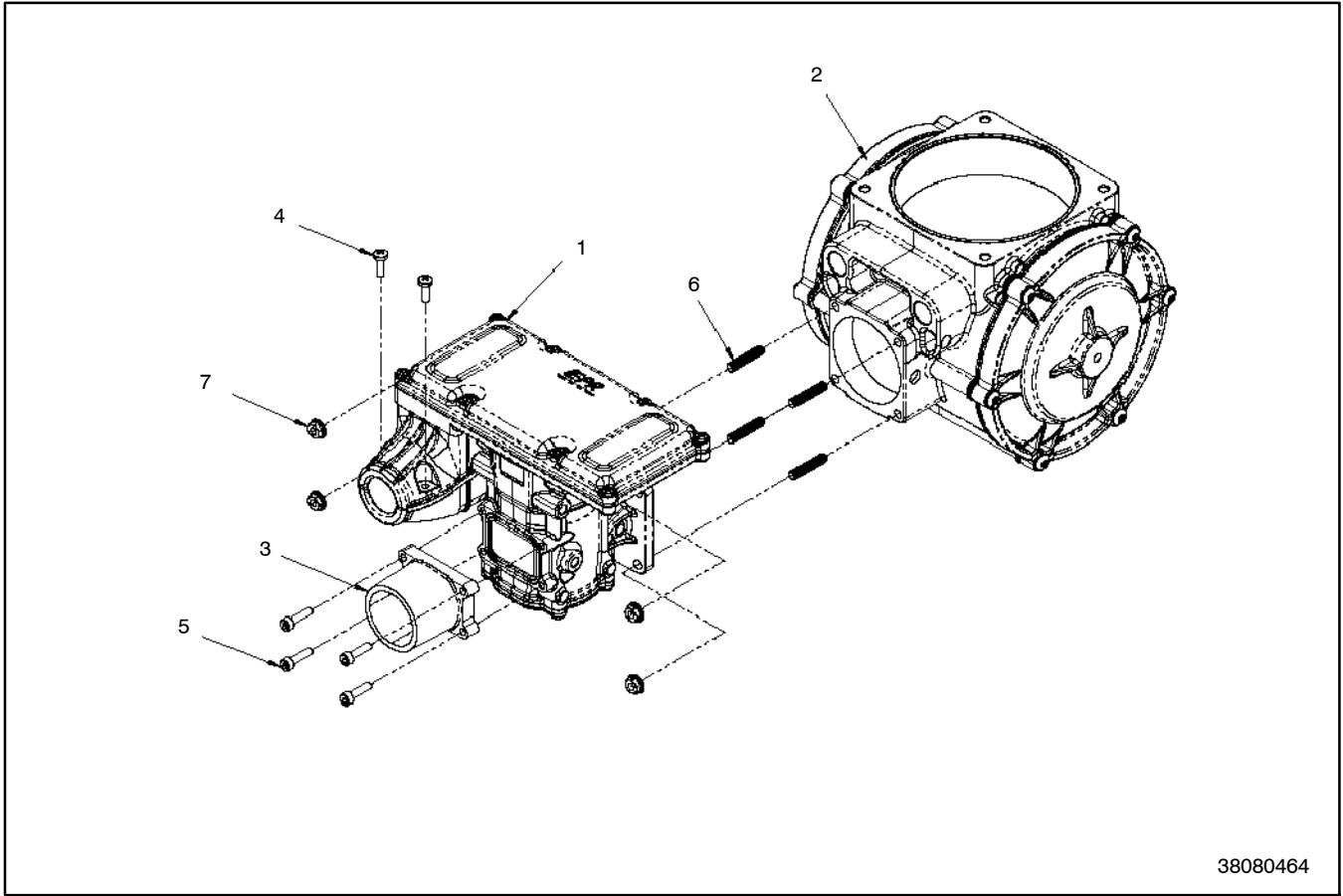
Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
2	GM38939	Fitting, 3/8 MPT Plug, Hex	1	1		1	1
3	GM73579	Elbow	1	1		1	1
4	GM28915	Clamp, hose, 5 in.	2	2		2	2
5	GM38928	Fitting, intake manifold vac	1	1		1	1
6	GM66214	Hose, hump, intake 4 x 4	1	1		1	1
7	GM69488	Clamp, hose 3/8 (spring type)	1	1		1	1
8	GM69502	Elbow, mixer to turbo	1	1		1	1
9	GM101411	Bracket, Mixer	1	1		1	1
10	GM72302	Sensor, T map 3-bar	1	1		1	1
11	GM28960	Washer, flat SAE	2	2		2	2
12	GM24188	Washer, lock 1/4 in.	2	2		2	2
13	GM28961	Bolt, 1/4-20 x 3/4 in.hex grd. 5	2	2		2	2
14	GM69521	Washer, M8	4	4		4	4
15	GM101432	Bolt	1	1		1	1
16	GM87614	Bolt	2	2		2	2
17	GM69522	Bolt, M8 x 1.25 x 25 hex head	4	4		4	4
18	GM72329	E480 EPR kit	1	1		1	1

1-13-1: Fuel System



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87593	Map Sensor			1		
3	GM38939	Fitting, 3/8 MPT Plug, Hex			1		
4	GM73579	Elbow			1		
5	GM38928	Fitting, intake manifold vac			1		
6	GM29586	Valve, throttle, 60 mm			1		
7	GM29592	Gasket (manifold adapter)			1		
8	GM69488	Clamp, hose 3/8 (spring type)			2		
9	GM75132	Washer, M6 Conical			4		
10	GM69499	Adapter, mixer			1		
11	GM69503	Seal			1		
12	GM69504	O-ring			1		
13	GM69510	O-ring			2		
14	GM75150	Spacer			1		
15	GM101447	Throttle, Inlet Casting			1		
16	GM87606	Elbow Gasket			1		
17	GM60247	Temp Send Unit E-Controls			1		
18	GM29609	Sensor, inlet air			1		
19	GM101422	Seal, Map Sensor			1		
20	GM69518	Bolt, M8 x 1.25 x 25 hex head			4		
21	GM87612	Washer			1		
22	GM69521	Washer, M8			4		
23	GM87613	Bolt			1		
24	GM72327	Bolt, M6-1.0 x 20 flange head			4		
26	GM101439	Bolt, Socket Head			4		
27	GM72329	E480 EPR kit			1		

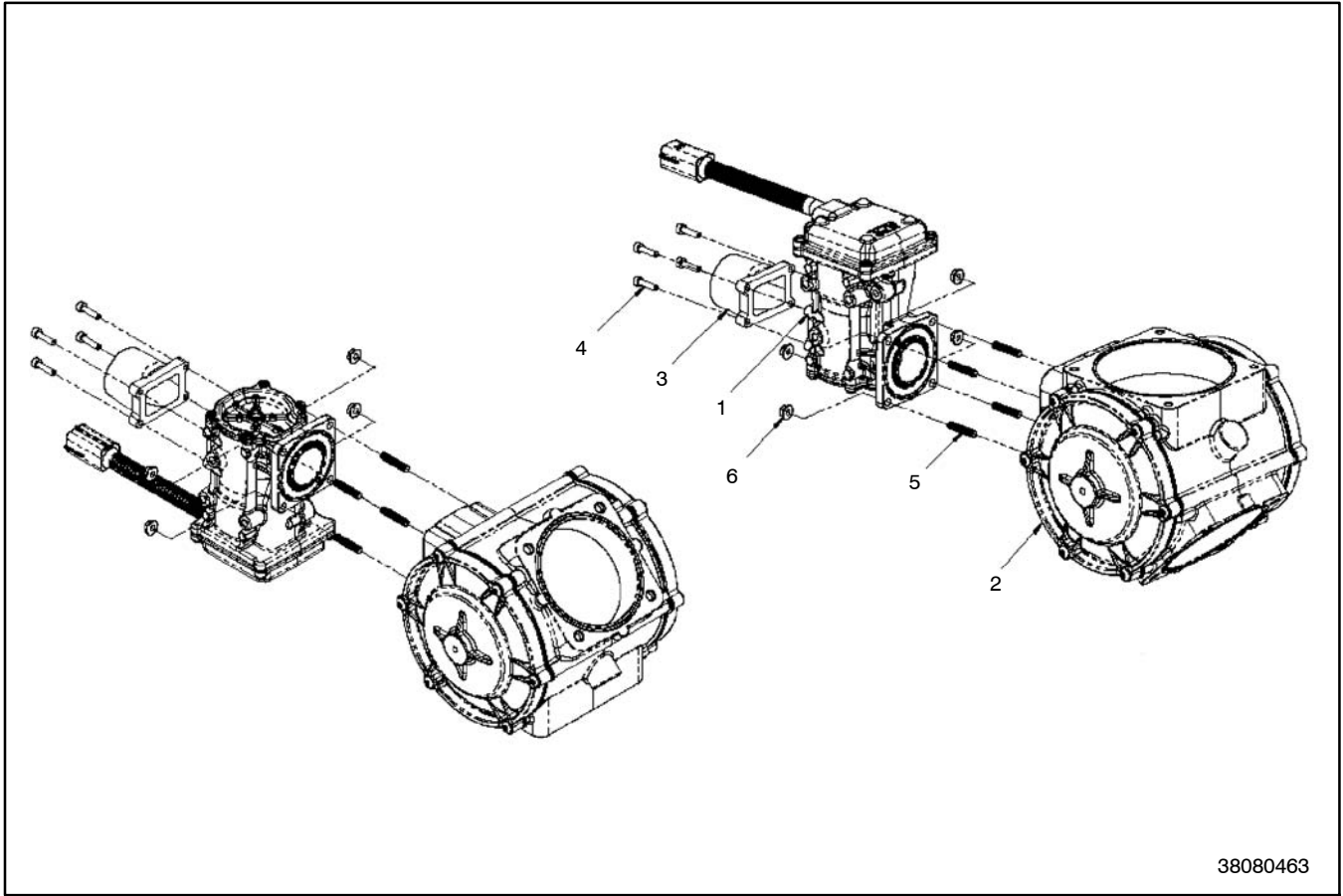
1-13-2: EPR



38080464

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM69496	EPR	1				
2	GM69497	Mixer	1				
3	GM69509	Adapter, EPR, 1 1/4 NPT	1				
4	GM75151	Screw, Tabulated M4 X 12	2				
5	GM69524	Bolt, M4 x .70 x 16 sht hd	4				
6	GM72323	Stud, M5-.80 x 25	4				
7	GM72324	Nut, M5-.80 flange	4				

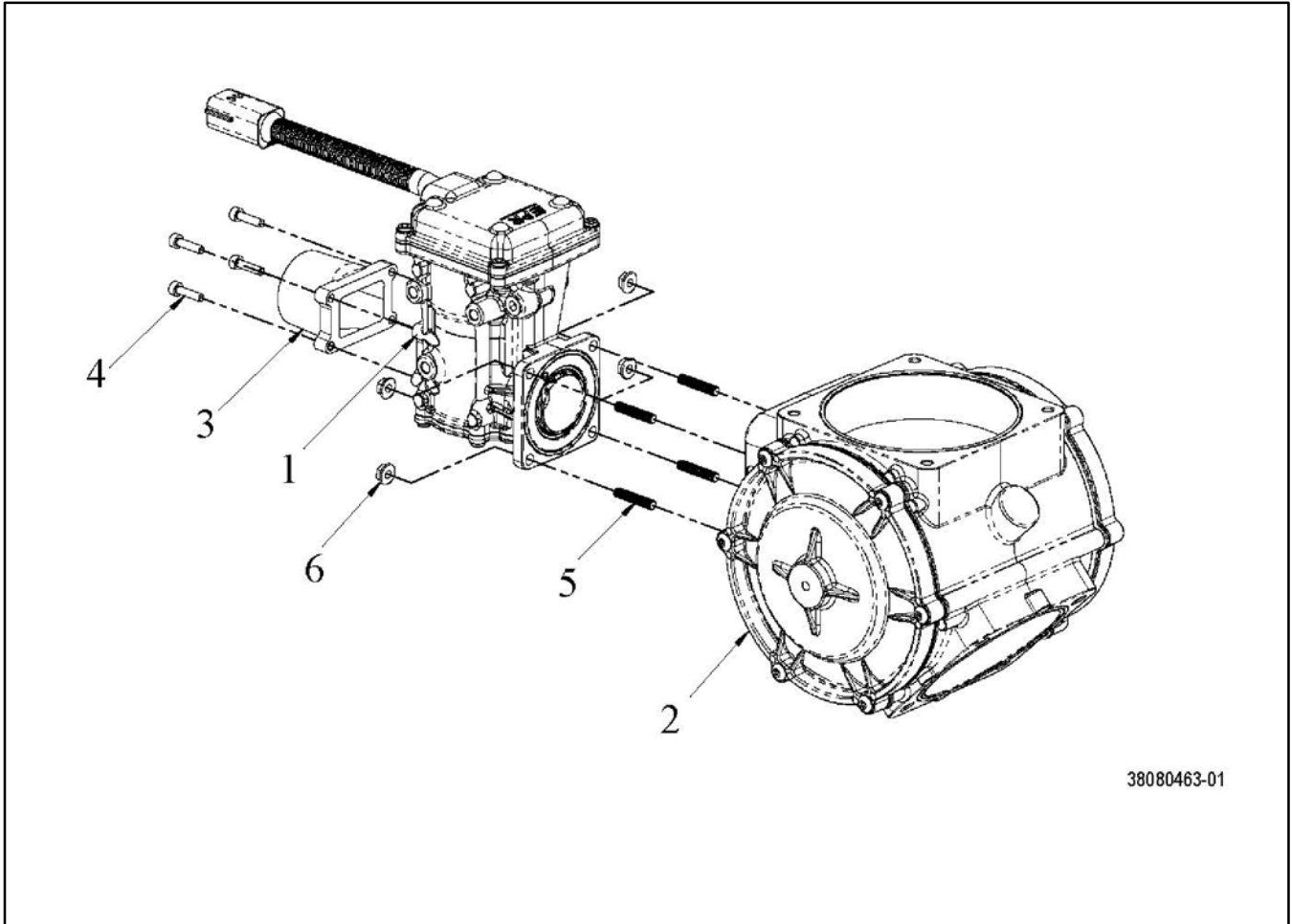
1-13-2: EPR



38080463

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM69493	EPR		1	1	1	1
2	GM69497	Mixer		1	1	1	1
3	GM69509	Adapter, EPR, 1 1/4 NPT		1	1	1	1
4	GM69524	Bolt, M4 x .70 x 16 sht hd		4	4	4	4
5	GM72323	Stud, M5-.80 x 25		4	4	4	4
6	GM72324	Nut, M5-.80 flange		4	4	4	4

1-13-2: EPR



38080463-01

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM69493	EPR assembly	1	1	1	1	1
2	GM69497	Mixer	1	1	1	1	1
3	GM69509	Adapter, EPR, 1 1/4 NPT	1	1	1	1	1
4	GM69524	Bolt, M4 x .70 x 16 sht hd	4	4	4	4	4
5	GM72323	Stud, M5-.80 x 25	4	4	4	4	4
6	GM72324	Nut, M5-.80 flange	4	4	4	4	4

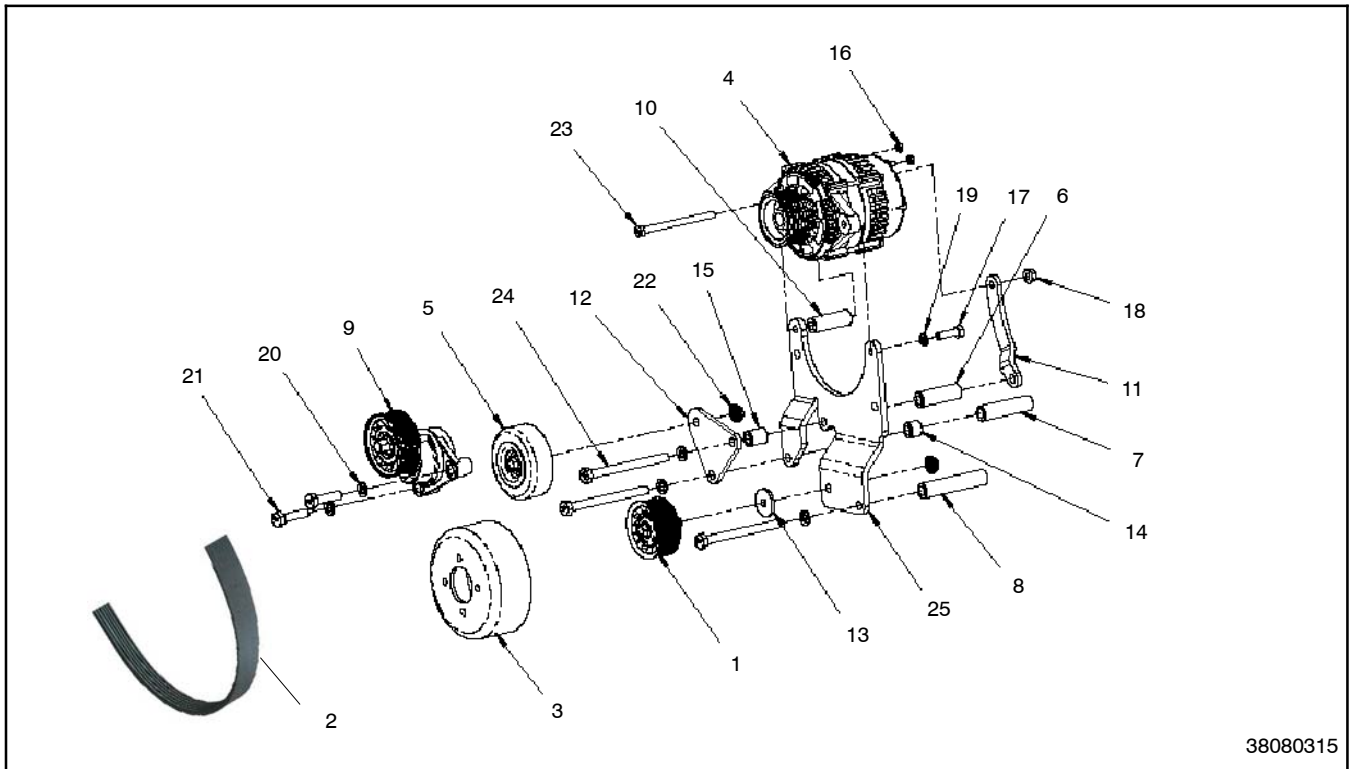
1-13-3: PVC Hose Assembly

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38080485

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
	GM16158	Hose, PCV, 3/8" x 12"			1		
	GM16158	Hose, PCV, 3/8" x 35"	1	1	1	1	1
	GM16158	Hose, PCV, 3/8" x 4.5"			1		
	GM16159	Valve, PCV			1		
	GM36134	Sleeve, thermo 12"			1		
	GM69488	Clamp, hose 3/8 (spring type)			5		
	GM69488	Clamp, hose 3/8 (spring type)	1	1	1	1	1
	GM75131	Clamp, Hose 7/8"Od			2		
	GM69492	Tube, 0.625 ID x 3 in.			2		
	GM101412	Adapter			1		
	GM101413	Insulation, 11.5"			1		
	GM101414	Insulation, 5 "			1		
	#	Tie, zip			8		

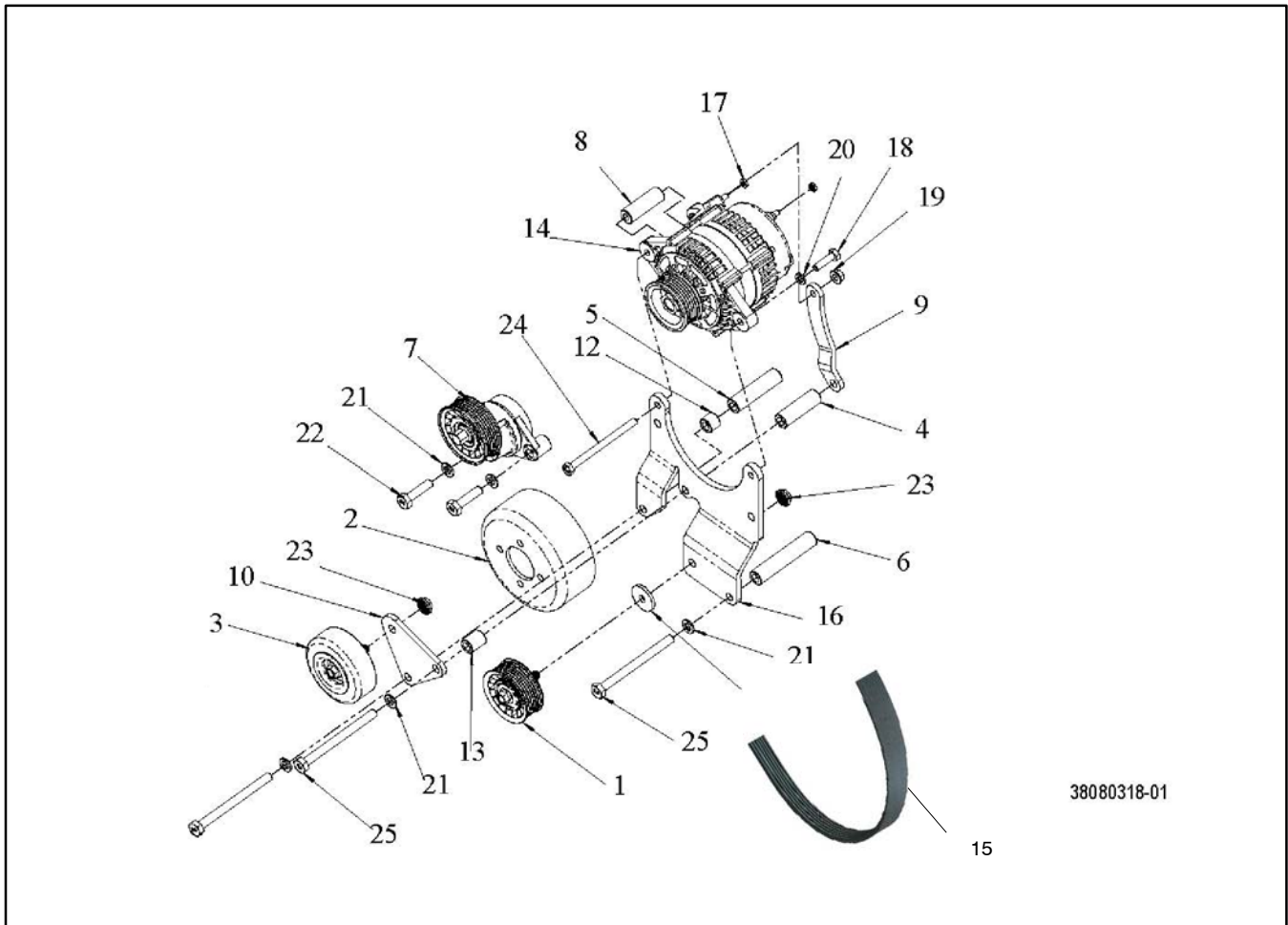
1-15: Alternator



38080315

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM16121	Pulley, idler	1	1	1	1	1
2	GM87590	Fan Belt	1	1	1	1	1
3	GM87599	Water Pump Pulley	1	1	1	1	1
4	GM16180	Alternator, 70 amp	1	1	1	1	1
5	GM19741	Pulley, idler	1	1	1	1	1
6	GM19742	Spacer, .437 ID x 2.343 in.	1	1	1	1	1
7	GM19743	Spacer, .437 ID x 2.906 in.	1	1	1	1	1
8	GM19744	Spacer, .437 ID x 3.718 in.	1	1	1	1	1
9	GM19746	Pulley, tensioner	1	1	1	1	1
10	GM19747	Spacer, alternator mounting .375 ID x 2.19 in.	1	1	1	1	1
11	GM19748	Brace, alternator	1	1	1	1	1
12	GM23423	Plate, idler	1	1	1	1	1
13	GM23422	Washer, idler	1	1	1	1	1
14	GM23421	Spacer, idler short	1	1	1	1	1
15	GM23420	Spacer, idler long	1	1	1	1	1
16	GM28959	Nut, M6-1.0	2	2	2	2	2
17	GM23738	Bolt, head head, M8-1.25 x 30	1	1	1	1	1
18	GM72312	Nut, M8-1.25 flange serrated	1	1	1	1	1
19	GM61733	Washer	1	1	1	1	1
20	GM72313	Washer, lock M10	5	5	5	5	5
21	GM73559	Bolt	2	2	2	2	2
22	GM23739	Nut, M10 x 1.5	2	2	2	2	2
23	#	Bolt	1	1	1	1	1
24	GM23740	Bolt, M10-1.5 x 120, gr. 5	3	3	3	3	3
25	GM87682	Alternator Bracket	1	1	1	1	1

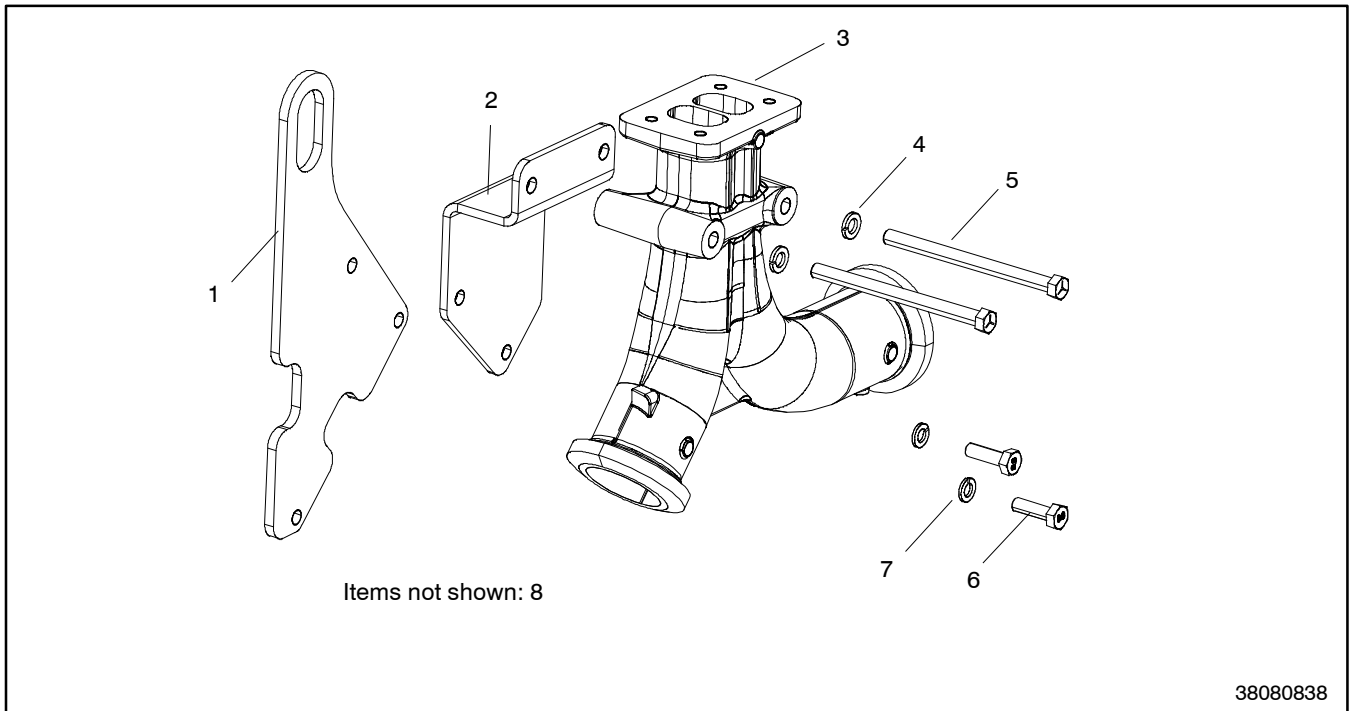
1-15: Alternator



38080318-01

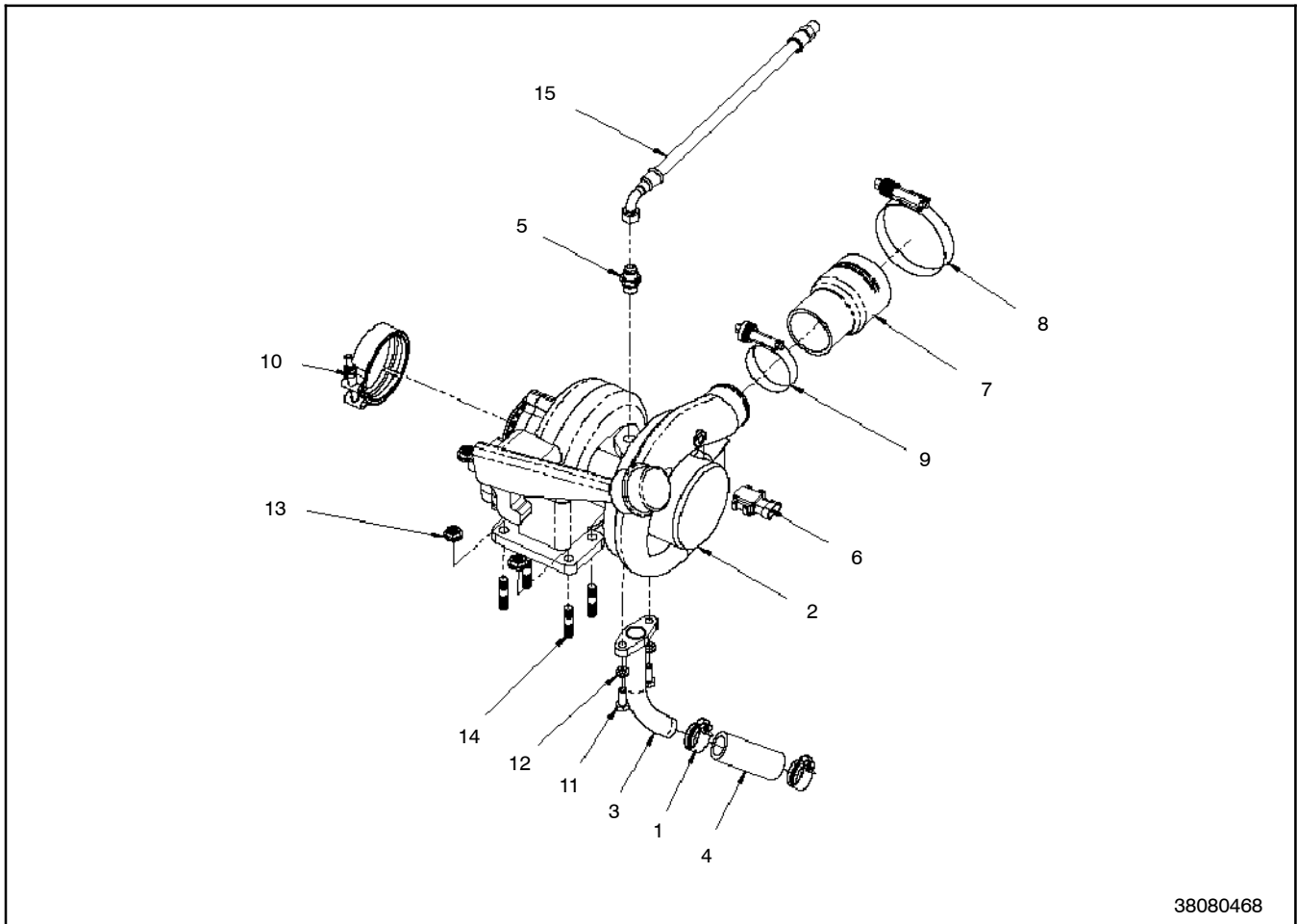
Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM16121	Pulley, idler	1	1	1	1	1
2	GM87599	Water Pump Pulley	1	1	1	1	1
3	GM19741	Pulley, idler	1	1	1	1	1
4	GM19742	Spacer, .437 ID x 2.343 in.	1	1	1	1	1
5	GM19743	Spacer, .437 ID x 2.906 in.	1	1	1	1	1
6	GM19744	Spacer, .437 ID x 3.718 in.	1	1	1	1	1
7	GM19746	Pulley, tensioner	1	1	1	1	1
8	GM19747	Spacer, alter. mtg .375 ID x 2.19 in.	1	1	1	1	1
9	GM19748	Brace, alternator	1	1	1	1	1
10	GM23423	Plate, idler	1	1	1	1	1
11	GM23422	Washer, idler	1	1	1	1	1
12	GM23421	Spacer, idler short	1	1	1	1	1
13	GM23420	Spacer, idler long	1	1	1	1	1
14	GM101417	Alternator	1	1	1	1	1
15	GM87590	Fan Belt	1	1	1	1	1
16	GM87682	Alternator Bracket	1	1	1	1	1
17	GM28959	Nut, M6-1.0	2	2	2	2	2
18	GM23738	Bolt, head head, M8-1.25 x 30	1	1	1	1	1
19	GM72312	Nut, M8-1.25 flange serrated	1	1	1	1	1
20	GM61733	Washer	1	1	1	1	1
21	GM72313	Washer, lock M10	5	5	5	5	5
22	GM73559	Bolt	2	2	2	2	2
23	GM23739	Nut, M10 x 1.5	2	2	2	2	2
24	GM101429	Bolt	1	1	1	1	1
25	GM23740	Bolt, M10-1.5 x 120, gr. 5	3	3	3	3	3

1-18: Turbo/Exhaust Adapter



Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75188	Bracket, Lifting Eye	1	1	1	1	1
2	GM75189	Bracket, Exhaust Support	1	1	1	1	1
3	GM75183	Adapter, Turbo Exh Casting	1	1	1	1	1
4	#	Washer, Flat 7/16" (Hardened)	2	2	2	2	2
5	#	Bolt, 7/16-14 x 6 Hex Head	2	2	2	2	2
6	#	Bolt, M10-1.50 x 25 Hx Hd Gr8.8	3	3	3	3	3
7	GM72313	Washer, lock M10	3	3	3	3	3
8	#	Nut, 7/16-14 Flange head	2	2	2	2	2

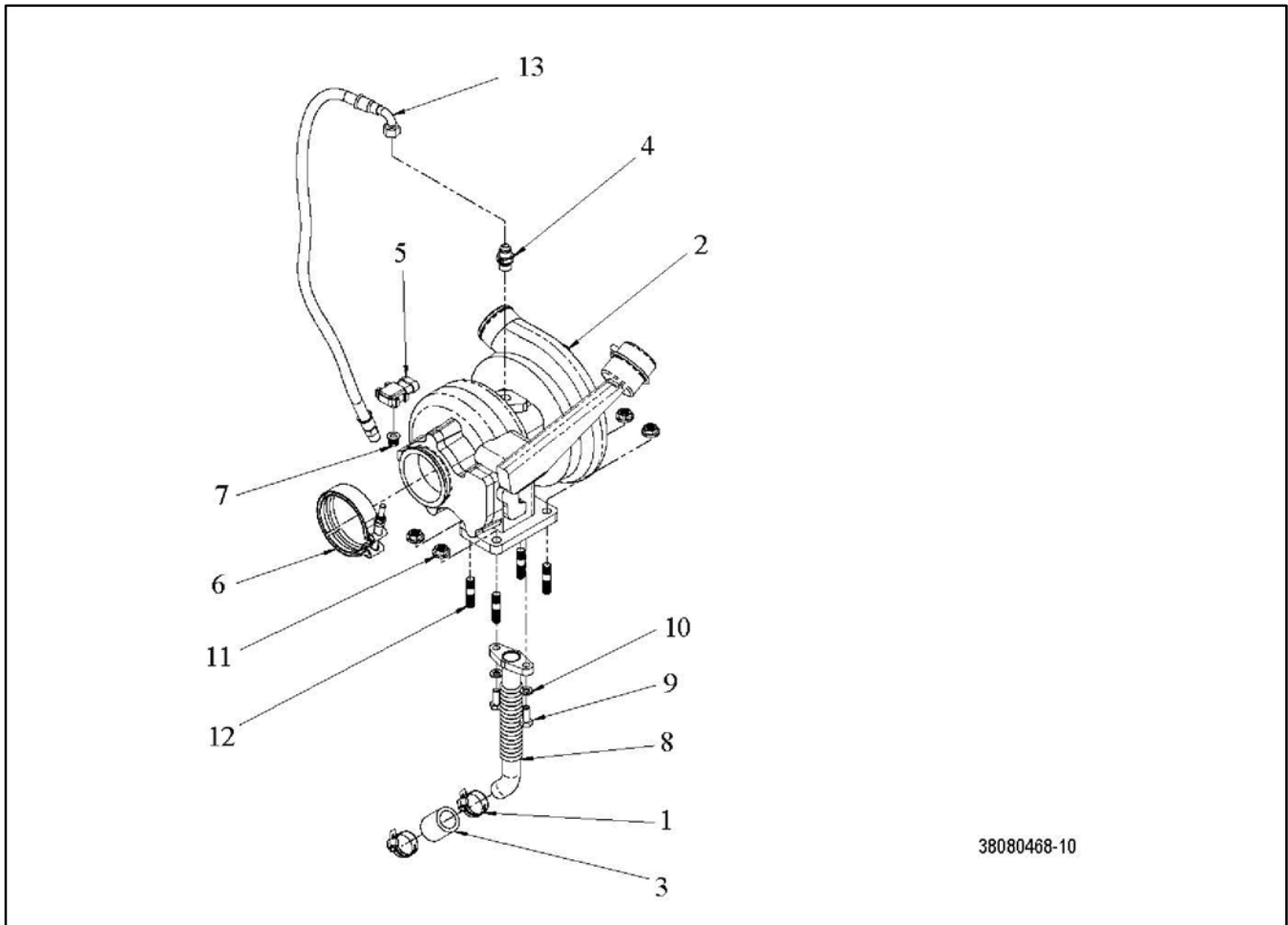
1-20-1: Turbocharger



38080468

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM28893	Clamp, hose, 1 1/4 in.		2	2	2	2
2	GM28897	Turbocharger		1	1	1	1
3	GM28899	Plate assembly, oil drain	1	1	1	1	1
4	GM28901	Hose, oil drain, 7/8 in. ID, 3 in.					
5	GM28903	Fitting, oil supply turbo		1	1	1	1
6	GM28906	Sensor, map		1	1	1	1
7	GM28914	Hose		1	1	1	1
8	GM29601	Clamp, 2 3/4-3 5/8 in.		1	1	1	1
9	GM29603	Clamp, 1 9/16-2 1/2 in.		1	1	1	1
10	GM28930	Clamp, V-band, 2 3/4 in.		1	1	1	1
11	GM72311	Bolt, M8-1.25 x 20 hxhd gr 8.8		2	2	2	2
12	GM61733	Washer		2	2	2	2
13	GM23739	Nut, M10 x 1.5		4	4	4	4
14	GM72315	Stud, M10-1.50 x 40, grade 8.8		4	4	4	4
15	GM87688	Turbo Supply Hose		1	1	1	1

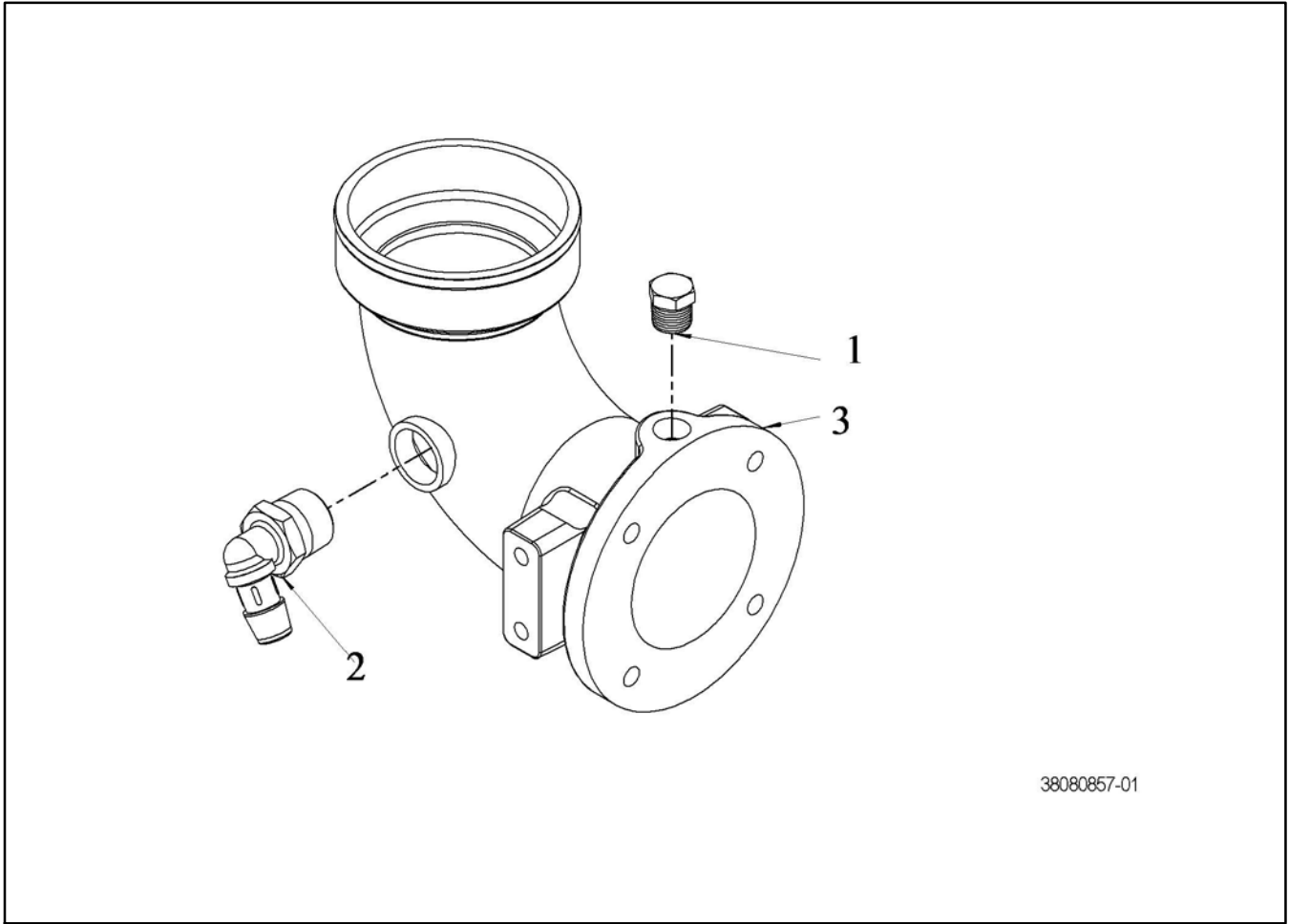
1-20-1: Turbocharger



38080468-10

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM39220	Clamp, hose S-12 1 1/4 in.	2	2		2	2
1	GM28893	Clamp, hose, 1 1/4 in.	2	2		2	2
2	GM28897	Turbocharger	1	1		1	1
3	GM28901	Hose, oil drain, 7/8 in. ID, 3 in.	1	1		1	1
4	GM28903	Fitting, oil supply turbo	1	1		1	1
5	GM28906	Sensor, map	1	1		1	1
6	GM28930	Clamp, V-band, 2 3/4 in.	1	1		1	1
7	GM101422	Seal, Map Sensor	1	1		1	1
8	GM101423	Tube, Turbo	1	1		1	1
9	GM72311	Bolt, M8-1.25 x 20 hxhd gr 8.8	2	2		2	2
10	GM61733	Washer	2	2		2	2
11	GM23739	Nut, M10 x 1.5	4	4		4	4
12	GM72315	Stud, M10-1.50 x 40, grade 8.8	4	4		4	4
13	GM72357	Hose, Teflon 28 in.	1	1		1	1

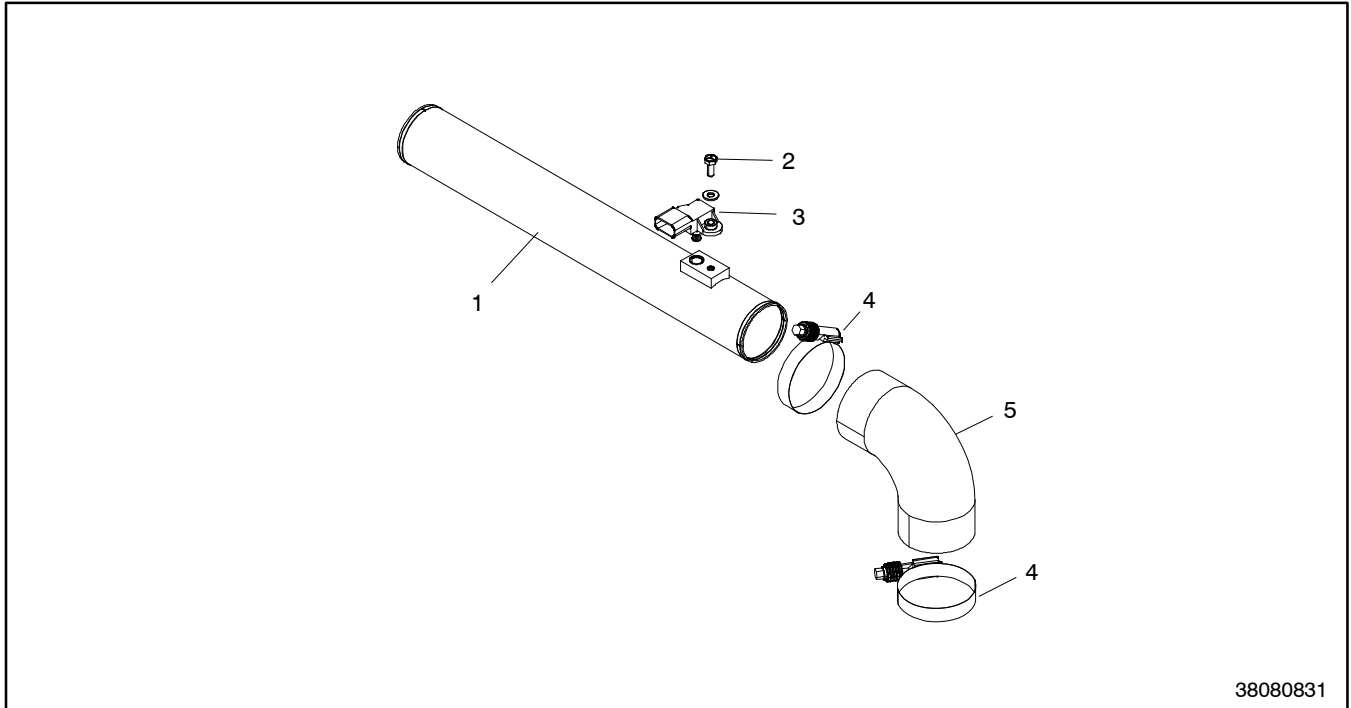
1-20-2: Turbocharger Inlet



38080857-01

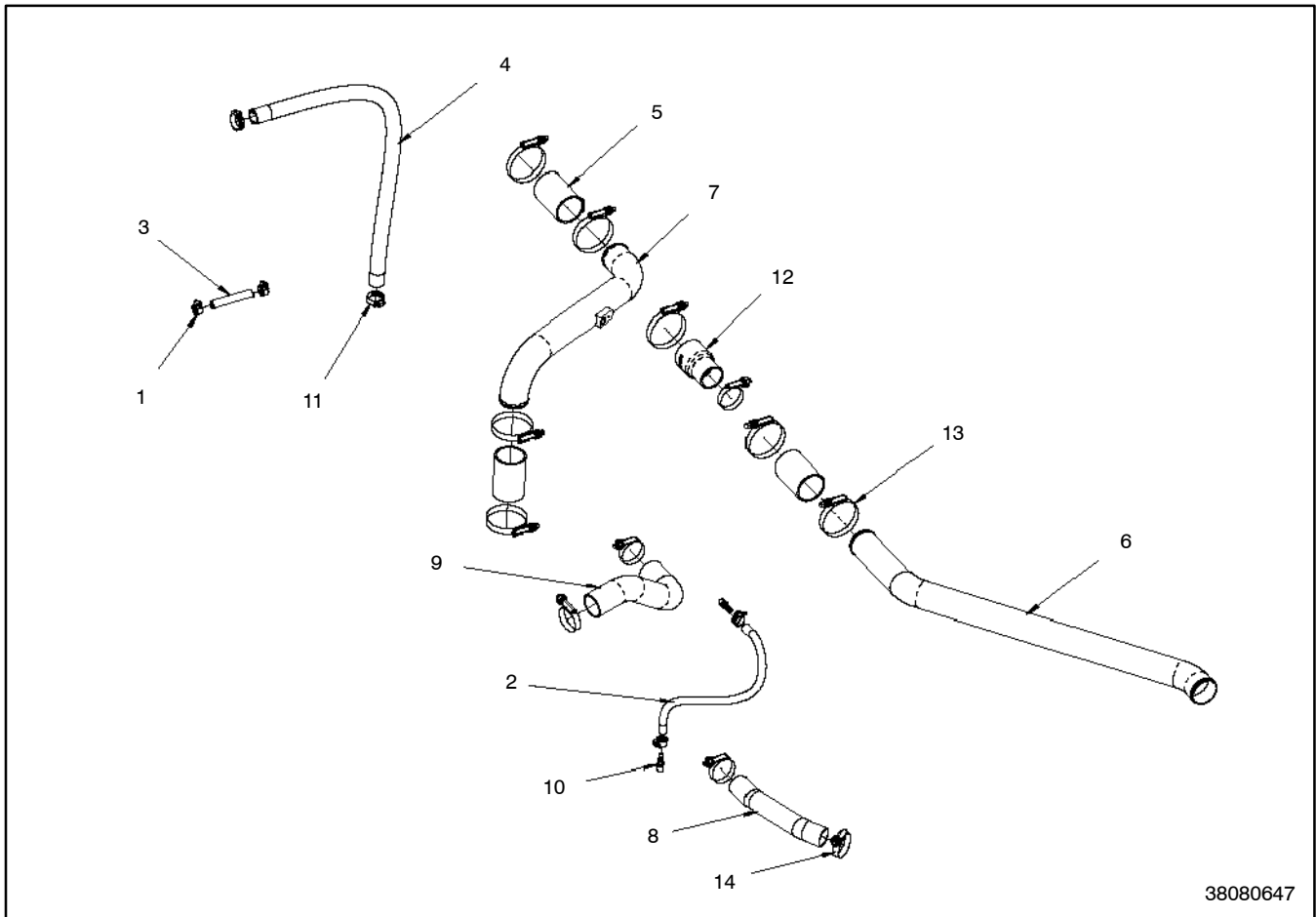
Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM24342	Fitting	1	1		1	1
2	GM101416	Fitting	1	1		1	1
3	GM101448	Elbow Mixer To Turbo	1	1		1	1

1-21: Intake Crossover



Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75143	Tube, Turbo to Throttle Body			1		
2	#	Bolt 1/4-20x5/8 Flange Hd Ser			1		
3	GM72302	Sensor, T map 3-bar			1		
4	GM29601	Clamp, 2 3/4-3 5/8 in.			2		
5	GM29600	Elbow, Rubber 90 deg. Tube to Throttle			1		

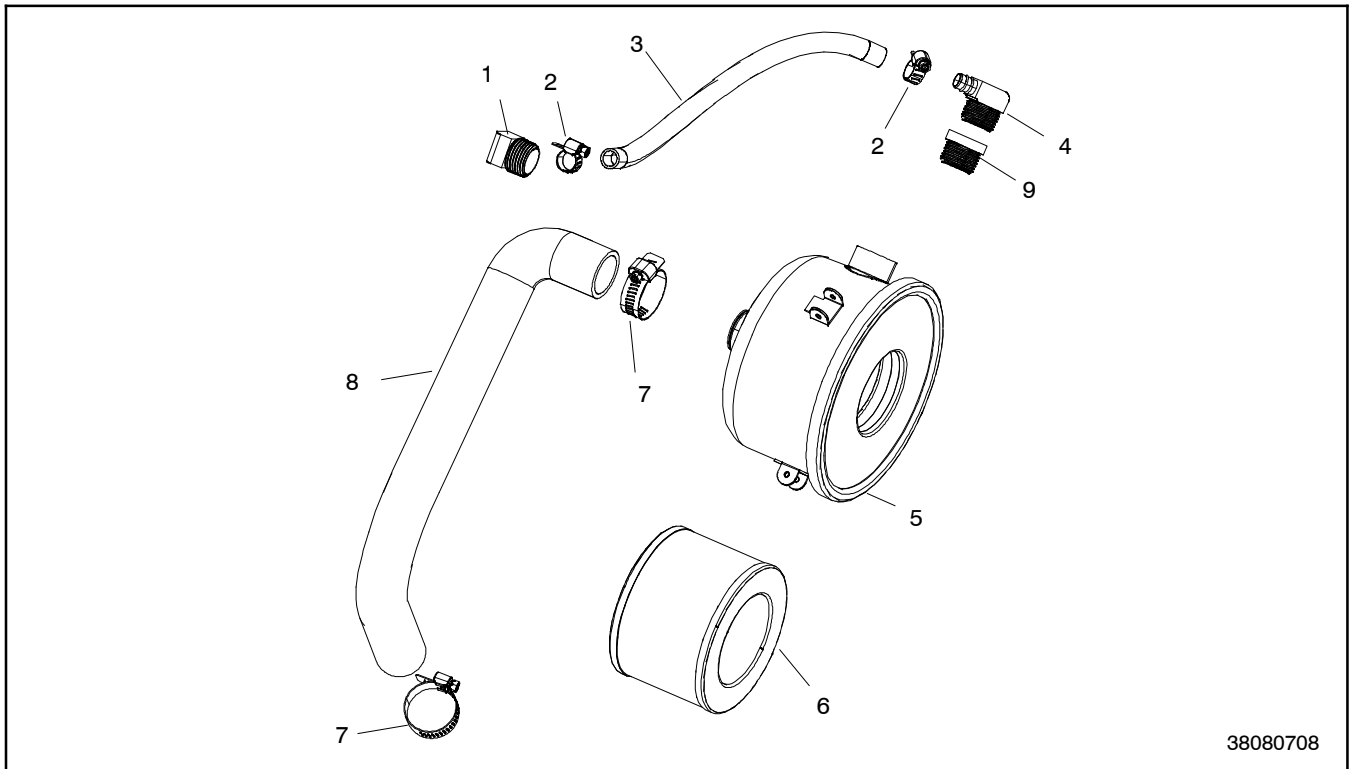
1-22: Charge Air Cooler Tubing



38080647

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM16144	Clamp, hose 1"				4	4
2	GM39417	Hose, heater 3/8 in. ID, rubber 19 in.					
3	GM39417	Hose, heater 3/8 in. ID, rubber 19 in.					
4	GM72286	Hose, heater 1 in. ID				1	1
5	GM72287	Hose, sil 2.5 ID x 3 lined (black)				3	3
6	GM87595	Turbo Tube				1	1
7	GM87596	Intake Tube				1	1
8	GM87597	Radiator Inlet Hose				1	1
9	GM87598	Radiator Outlet Hose				1	1
10	GM72289	Ftg, 3/8 in. hse brb x 1/4 in. mpt, brs				4	4
11	GM28895	Clamp, hose, 13/16-1 1/2 in.				2	2
12	GM28914	Hose				1	1
13	GM29601	Clamp, 2 3/4-3 5/8 in.				7	7
14	GM29603	Clamp, 1 9/16-2 1/2 in.				5	5

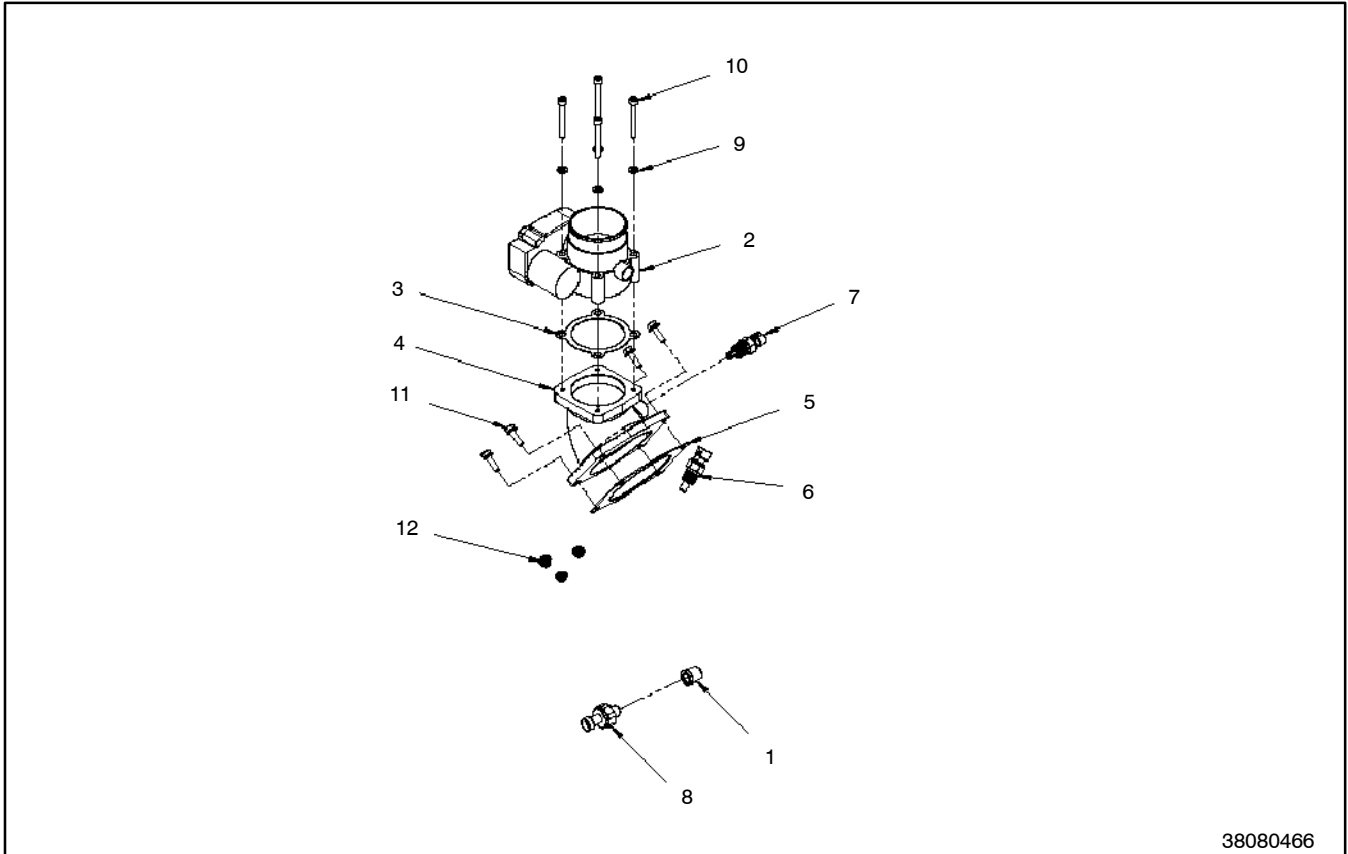
1-23: Breather



38080708

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM28949	Ftg, 5/8 bd hse x 3/8 MPT x 90		1	1	1	1
2	GM28893	Clamp, hose, 1 1/4 in.		2	2	2	2
3	GM24351	Hose, elbow		1	1	1	1
4	GM29847	Fitting, 1/2 x 5/8 in., 90 deg. elb		1	1	1	1
5	GM73575	Separator filter assembly		1	1	1	1
6	GM70877	Filter, GM 8.1L Turbo Poly, CCV		1	1	1	1
7	GM28895	Clamp, hose, 13/16-1 1/2 in.		2	2	2	2
8	GM75186	Hose, 1" Molded Breather		1	1	1	1
9	GM16213	Bushing, reducing 3/4"-1/2"		1	1	1	1

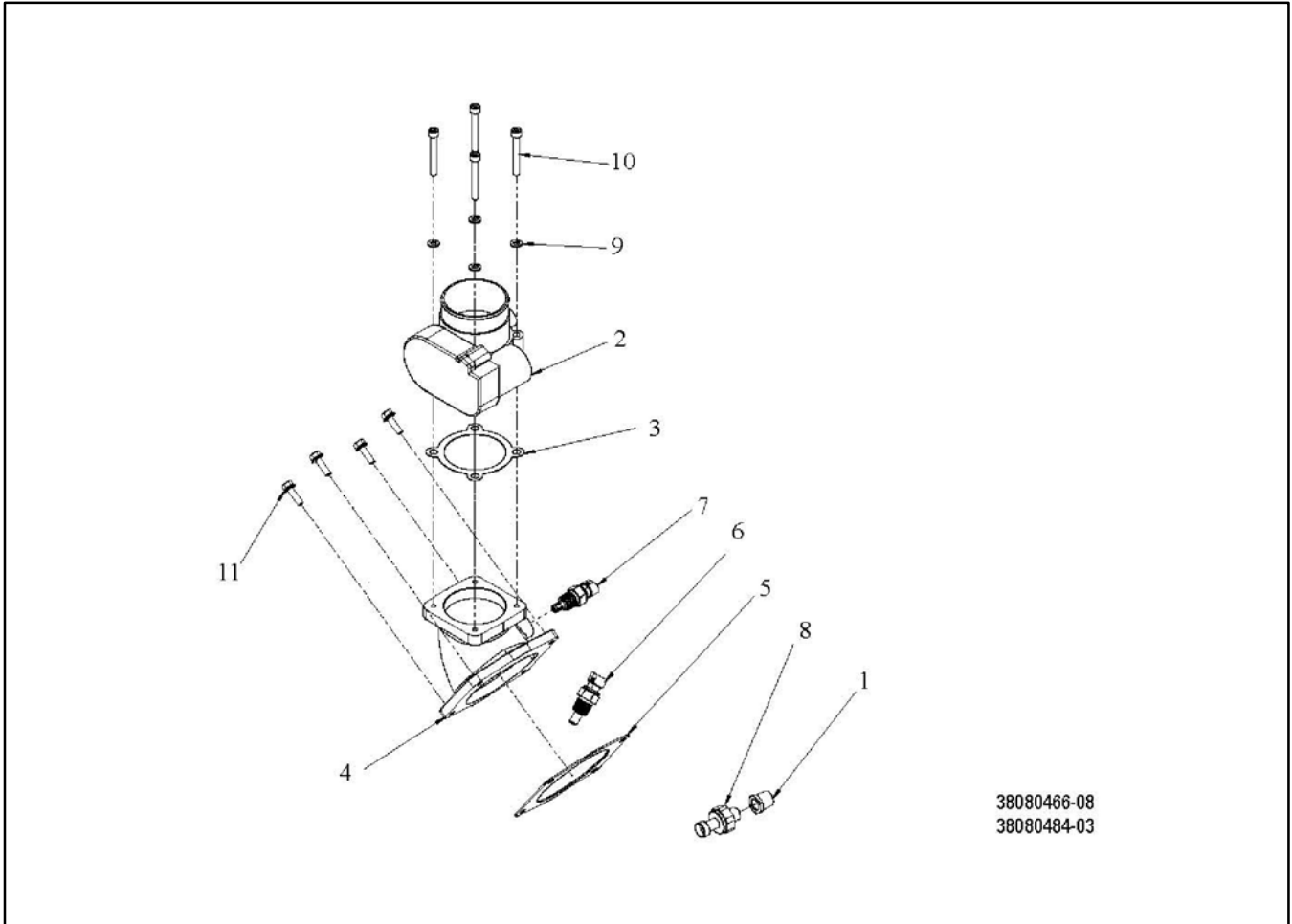
1-24: Throttle Body



38080466

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75125	Bushing, 3/8MPT X 1/4FPT		1	1	1	1
2	GM29586	Valve, throttle, 60 mm		1	1	1	1
3	GM29592	Gasket (manifold adapter)		1	1	1	1
4	GM87605	Throttle Body Adaptor		1	1	1	1
5	GM87606	Elbow Gasket		1	1	1	1
6	GM39601	Sensor, temperature		1	1	1	1
7	GM29609	Sensor, inlet air		1	1	1	1
8	GM72303	Sender, oil pressure		1	1	1	1
9	GM28963	Washer, lock M6		4	4	4	4
10	GM72316	Bolt, M6-1.0 x 50 skt hd		4	4	4	4
11	GM72327	Bolt, M6-1.0 x 20 flange head		4	4	4	4
12	GM72328	Nut		3	3	3	3

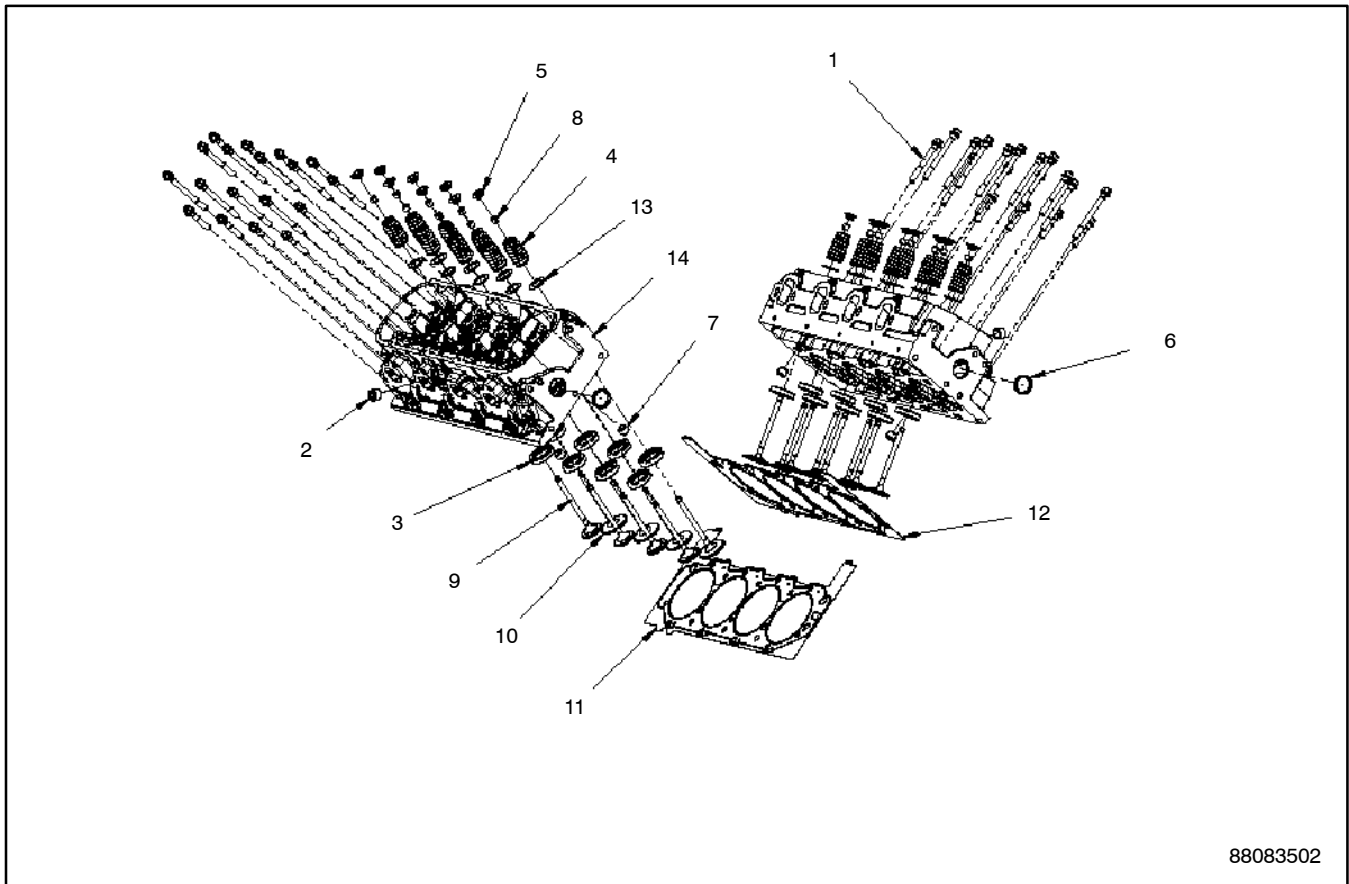
1-24: Throttle Body



38080466-08
38080484-03

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM75125	Bushing, 3/8MPT X 1/4FPT	1	1	1	1	1
2	GM29586	Valve, throttle, 60 mm	1	1	1	1	1
3	GM29592	Gasket (manifold adapter)	1	1	1	1	1
4	GM87605	Throttle Body Adaptor	1	1	1	1	1
5	GM87606	Elbow Gasket	1	1	1	1	1
6	GM60247	Temp Send Unit E-Controls	1	1	1	1	1
7	GM29609	Sensor, inlet air	1	1	1		
8	GM72303	Sender, oil pressure	1	1	1	1	1
9	GM28963	Washer, lock M6	4	4	4	4	4
10	GM72316	Bolt, M6-1.0 x 50 skt hd	4	4	4	4	4
11	GM72327	Bolt, M6-1.0 x 20 flange head	4	4	4	4	4

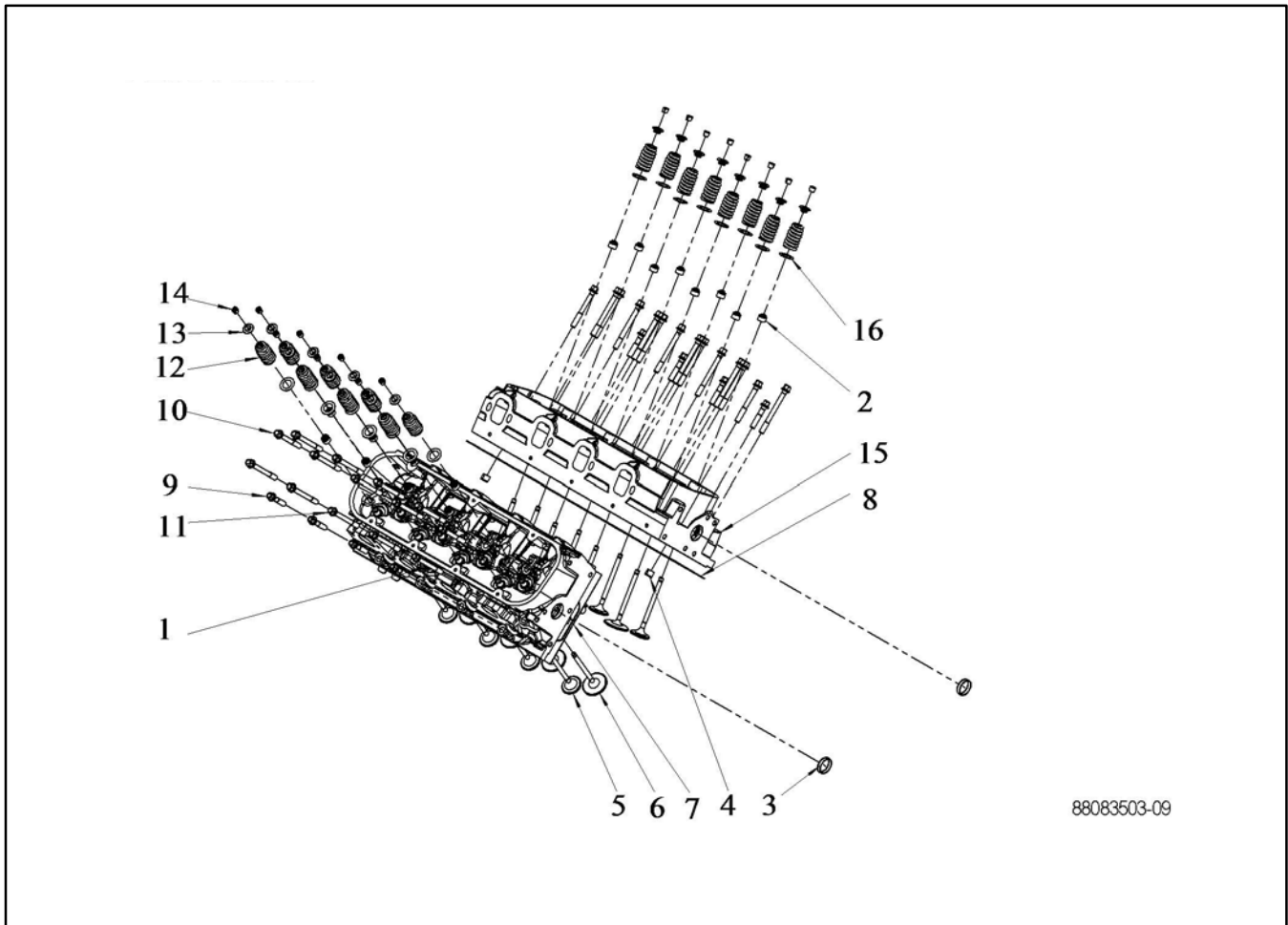
2-1: Cylinder Head



88083502

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87591	Bolt Head Kit	2	2	2	2	2
2	GM87611	Plug	2	2	2	2	2
3	GM87641	Seal	16	16	16	16	16
4	GM87642	Spring	16	16	16	16	16
5	GM87643	Retainer	16	16	16	16	16
6	GM87645	Core Plug	2	2	2	2	2
7	GM87646	Dowell	4	4	4	4	4
8	GM87678	Key	16	16	16	16	16
9	GM87679	Exhaust Valve	8	8	8	8	8
10	GM87680	Intake Valve	8	8	8	8	8
11	GM87683	Cylinder Head Gasket (LT)	1	1	1	1	1
12	GM87684	Cylinder Head Gasket (RT)	1	1	1	1	1
13	GM87694	Valve Spring Shim	16	16	16	16	16
14	GM87703	Cylinder Head	2	2	2	2	2

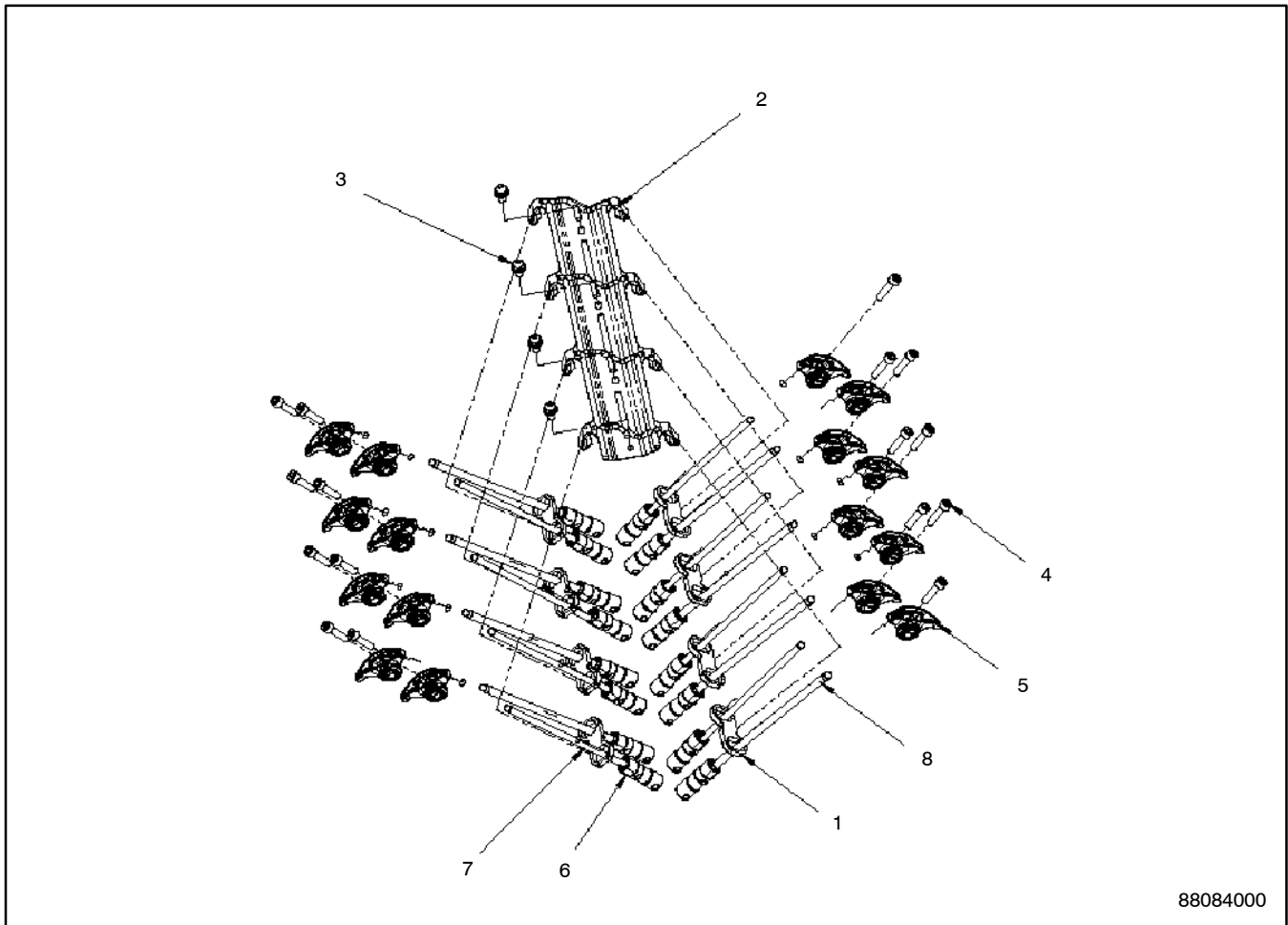
2-1: Cylinder Head



88083503-09

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87611	Plug	2	2	2	2	2
2	GM87641	Seal	16	16	16	16	16
3	GM87645	Core Plug	2	2	2	2	2
4	GM87646	Dowell	4	4	4	4	4
5	GM87679	Exhaust Valve	8	8	8	8	8
6	GM87680	Intake Valve	8	8	8	8	8
7	GM87683	Cylinder Head Gasket (LT)	1	1	1	1	1
8	GM87684	Cylinder Head Gasket (RT)	1	1	1	1	1
9	GM18923	Bolt, cylinder head	8	8	8	8	8
10	GM18922	Bolt, cylinder head	4	4	4	4	4
11	GM18921	Bolt, cylinder head	24	24	24	24	24
12	GM101457	Spring, Valve	16	16	16	16	16
13	GM101458	Retainer, Valve Spring	16	16	16	16	16
14	GM101459	Key	32	32	32	32	32
15	GM101476	Head, Cylinder	2	2	2	2	2
16	GM101477	Shim, Valve Spring	16	16	16	16	16

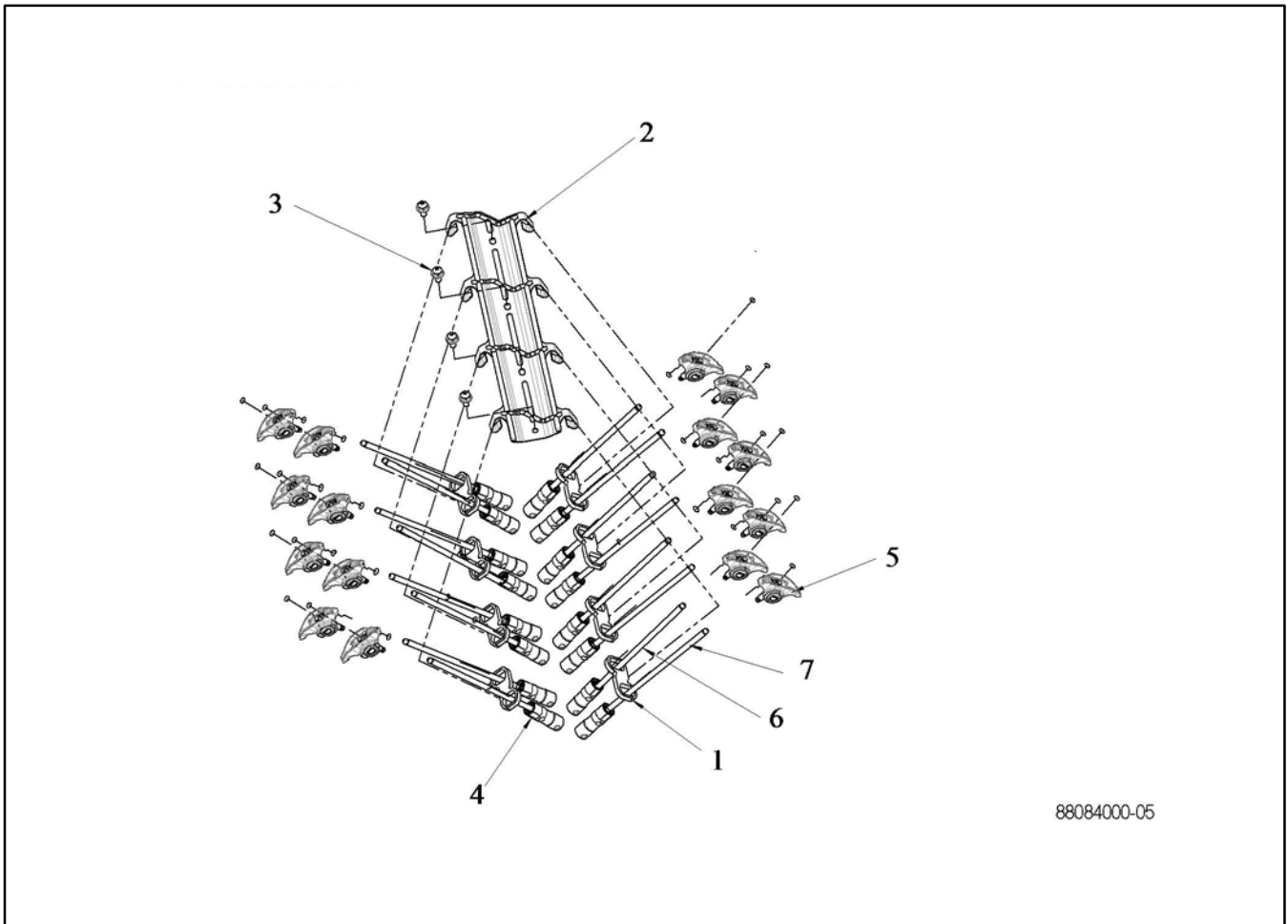
2-2: Valve Actuation



88084000

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87647	Lifter Guide	8	8	8	8	8
2	GM87648	Lifter Tray	1	1	1	1	1
3	GM87649	Bolt	4	4	4	4	4
4	GM87650	Rocker Bolt	16	16	16	16	16
5	GM87668	Rocker Valve	16	16	16	16	16
6	GM87686	Lifter Valve	16	16	16	16	16
7	GM87696	Intake Push Rod	8	8	8	8	8
8	GM87697	Exhaust Push Rod	8	8	8	8	8

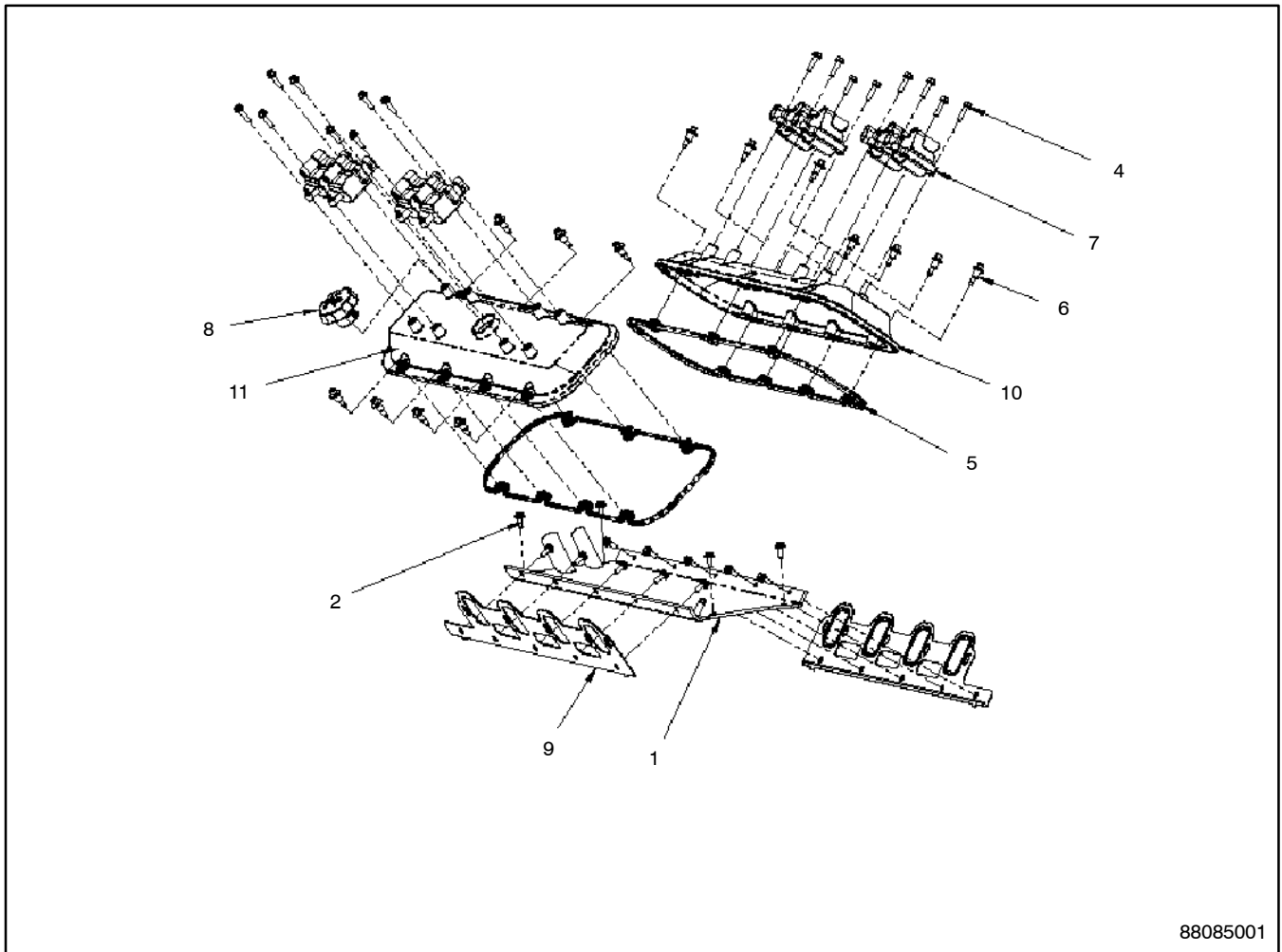
2-2: Valve Actuation



88084000-05

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87647	Lifter Guide	8	8	8	8	8
2	GM87648	Lifter Tray	1	1	1	1	1
3	GM87649	Bolt	4	4	4	4	4
4	GM87686	Lifter Valve	16	16	16	16	16
5	GM101465	Valve	16	16	16	16	16
6	GM101471	Push Rod (Exhaust)	8	8	8	8	8
7	GM101470	Push Rod (Intake)	8	8	8	8	8

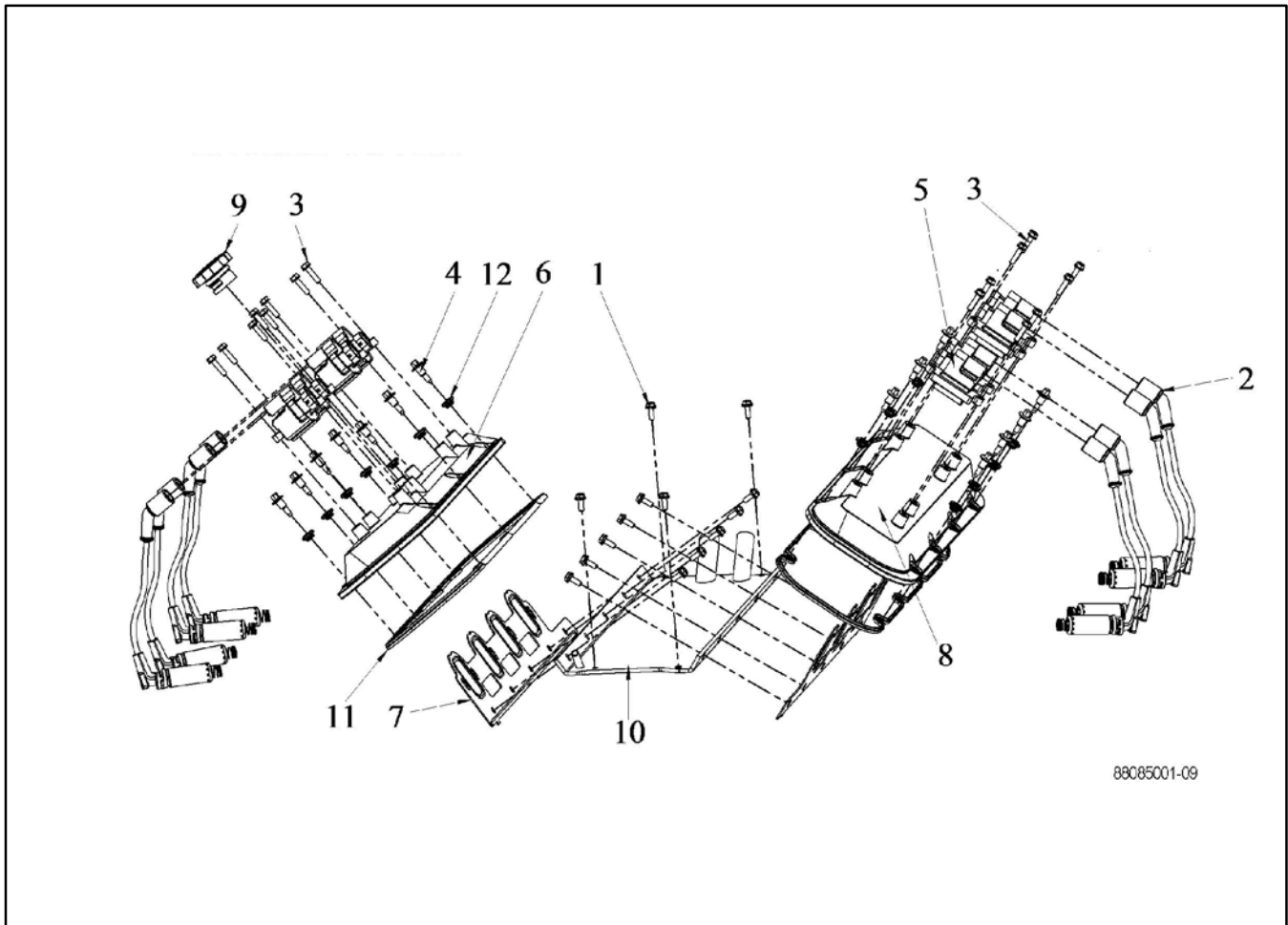
2-3: Engine Cover



88085001

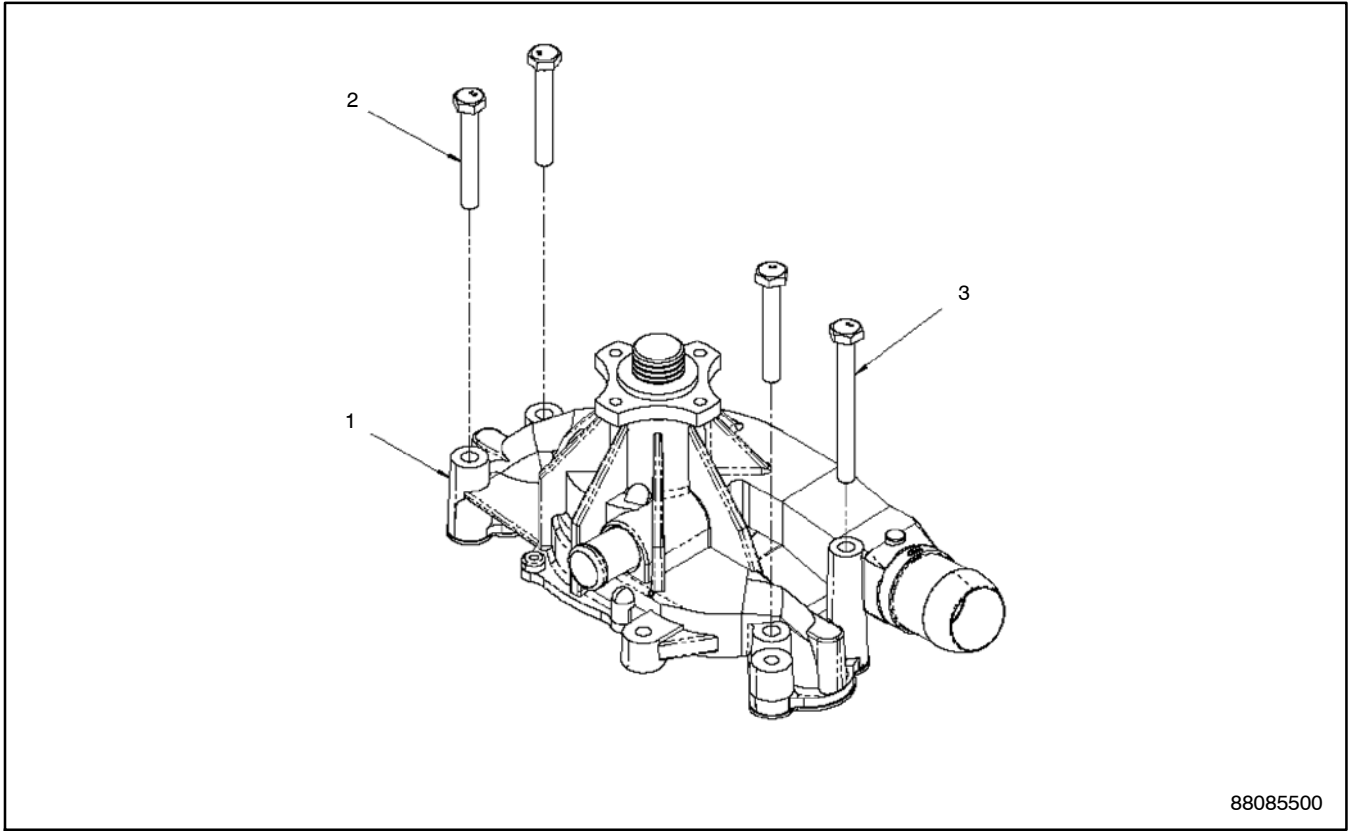
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87652	Valley Cover	1	1	1	1	1
2	GM87653	Bolt	14	14	14	14	14
	GM87654	Spark Plug Wire	8	8	8	8	8
4	GM87655	Bolt	16	16	16	16	16
5	GM87657	Valve Cover Gasket	2	2	2	2	2
6	GM87658	Bolt	14	14	14	14	14
7	GM87659	Ignition Coil	8	8	8	8	8
8	GM87660	Oil Fill Cap	1	1	1	1	1
9	GM87666	Intake Manifold Gasket	2	2	2	2	2
10	GM87676	Valve Cover	1	1	1	1	1
11	GM87677	Valve Cover	1	1	1	1	1

2-3: Engine Cover



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87653	Bolt	14	14	14	14	14
2	GM87654	Spark Plug Wire	8	8	8	8	8
3	GM87655	Bolt	16	16	16	16	16
4	GM87658	Bolt	14	14	14	14	14
5	GM87659	Ignition Coil	8	8	8	8	8
6	GM101460	Cover, Valve W / Oil Fill	1	1	1	1	1
7	GM87666	Intake Manifold Gasket	2	2	2	2	2
8	GM87676	Valve Cover	1	1	1	1	1
9	GM101449	Cap, Oil	1	1	1	1	1
10	GM101456	Cover, Valley	1	1	1	1	1
10	GM101466	Cover, Valley	1	1	1	1	1
11	GM101452	Gasket, V/Cover	2	2	2	2	2
12	GM101453	Grommet, V/Cover	14	14	14	14	14

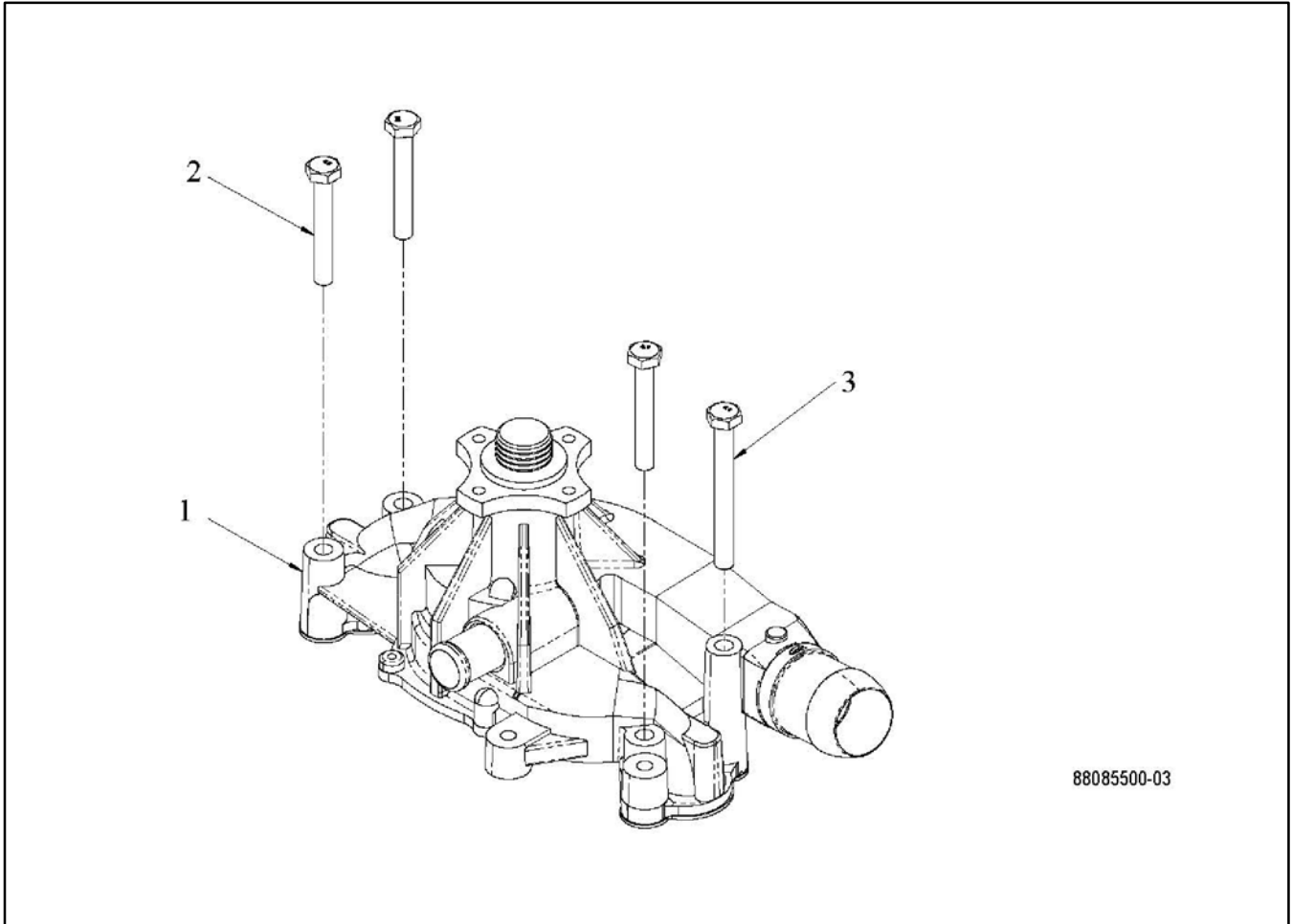
2-4: Water Pump



88085500

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87661	Water Pump	1	1	1	1	1
2	GM87662	Fastener	3	3	3	3	3
3	GM87693	Bolt	1	1	1	1	1
	GM18963	Water Pump Gasket	2	2	2	2	2

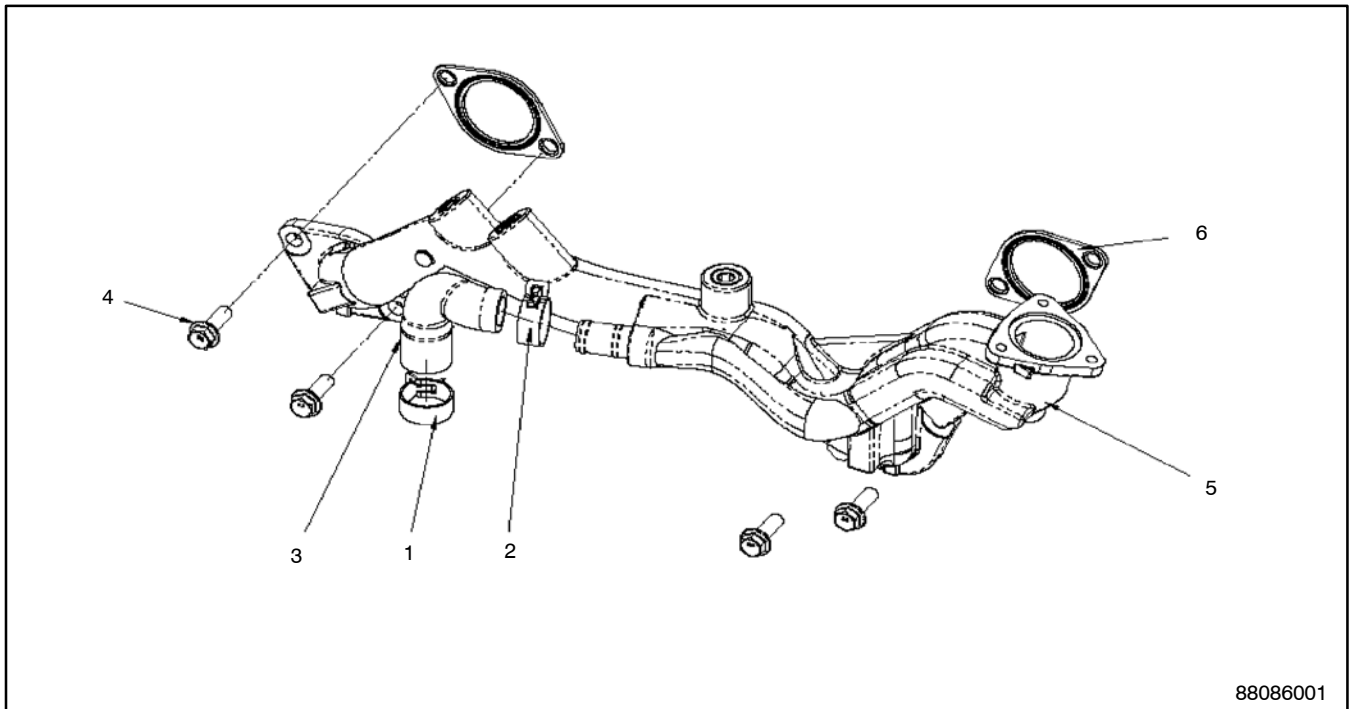
2-4: Water Pump



88085500-03

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87661	Water Pump	1	1	1	1	1
2	GM87662	Fastener	3	3	3	3	3
3	GM87693	Bolt	1	1	1	1	1
	GM18963	Water Pump Gasket	2	2	2	2	2

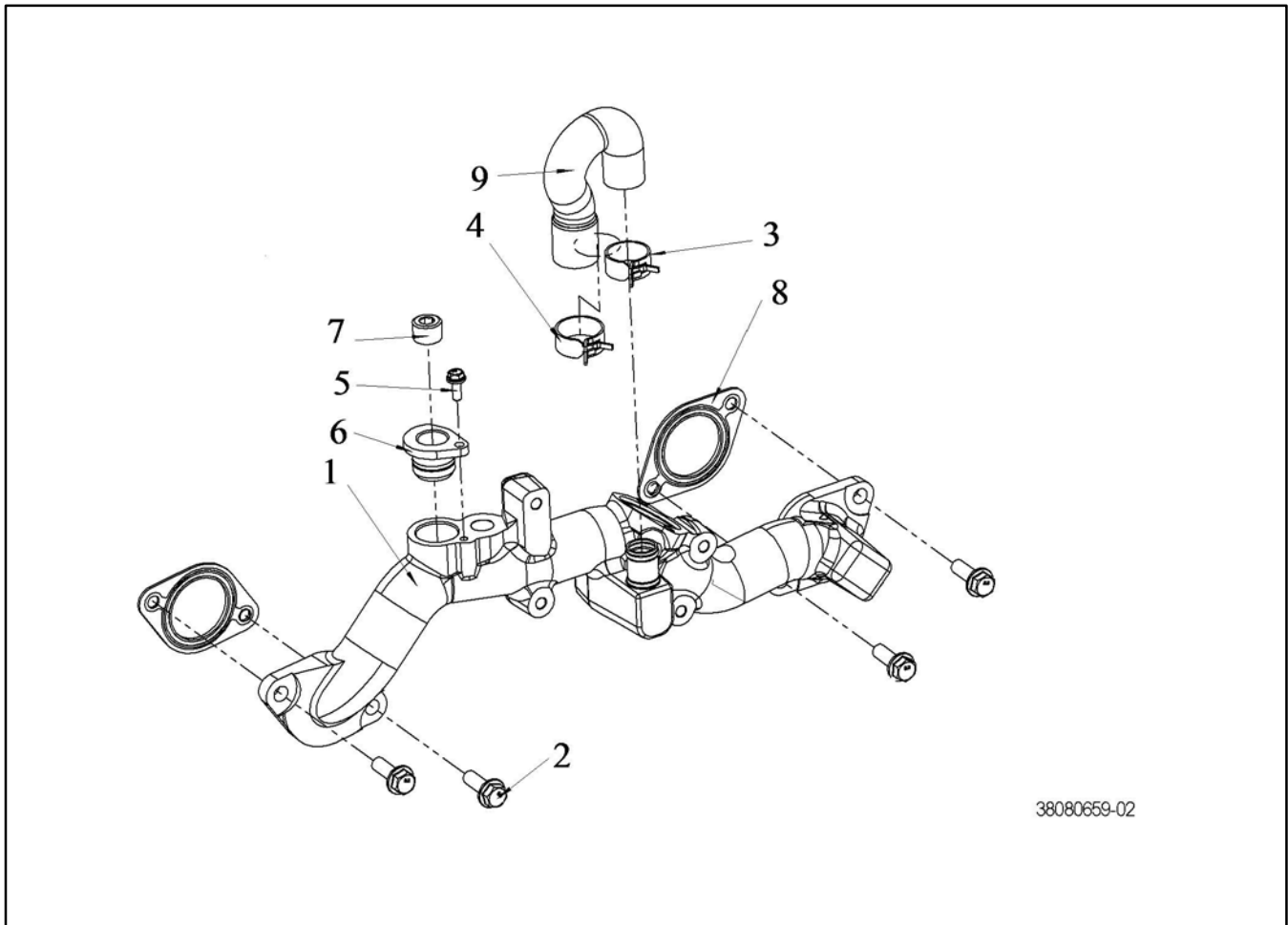
2-5: Coolant Crossover Pipe



88086001

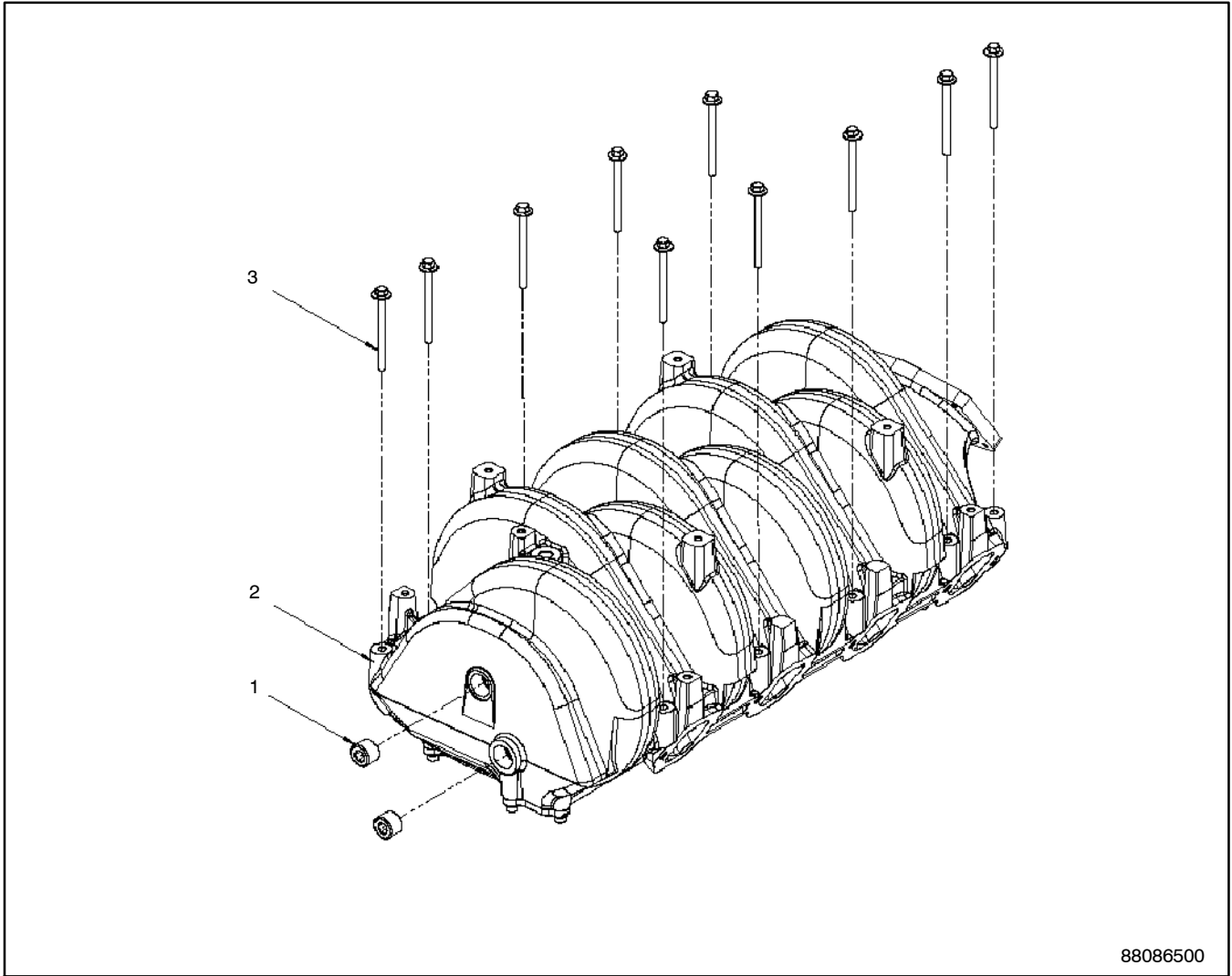
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87601	Clamp	1	1	1	1	1
2	GM87603	Clamp	1	1	1	1	1
3	GM87656	Bypass Hose	1	1	1	1	1
4	GM87663	Bolt	4	4	4	4	4
5	GM87695	Coolant Pipe	1	1	1	1	1
6	GM87698	Gasket	2	2	2	2	2

2-5: Coolant Crossover Pipe



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM101461	Pipe, Crossover	1	1	1	1	1
2	GM87663	Bolt	4	4	4	4	4
3	GM101410	Clamp	1	1	1	1	1
4	GM87601	Clamp	1	1	1	1	1
5	GM87653	Bolt	1	1	1	1	1
6	GM101464	Plug	1	1	1	1	1
7	GM87611	Plug	1	1	1	1	1
8	GM18964	Gasket, engine coolant crossover	2	2	2	2	2
9	GM99156	Hose	1	1	1	1	1

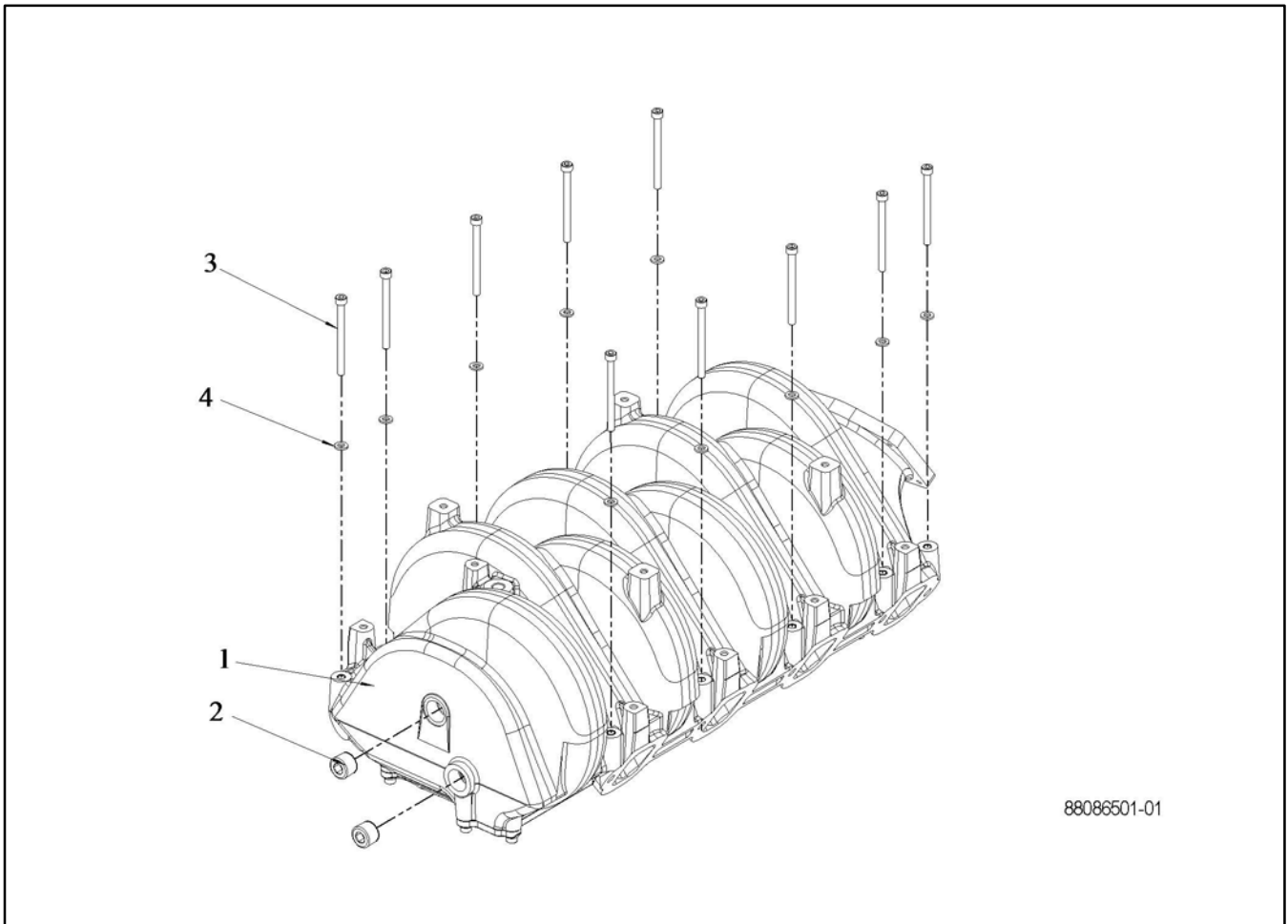
2-6: Intake Manifold



88086500

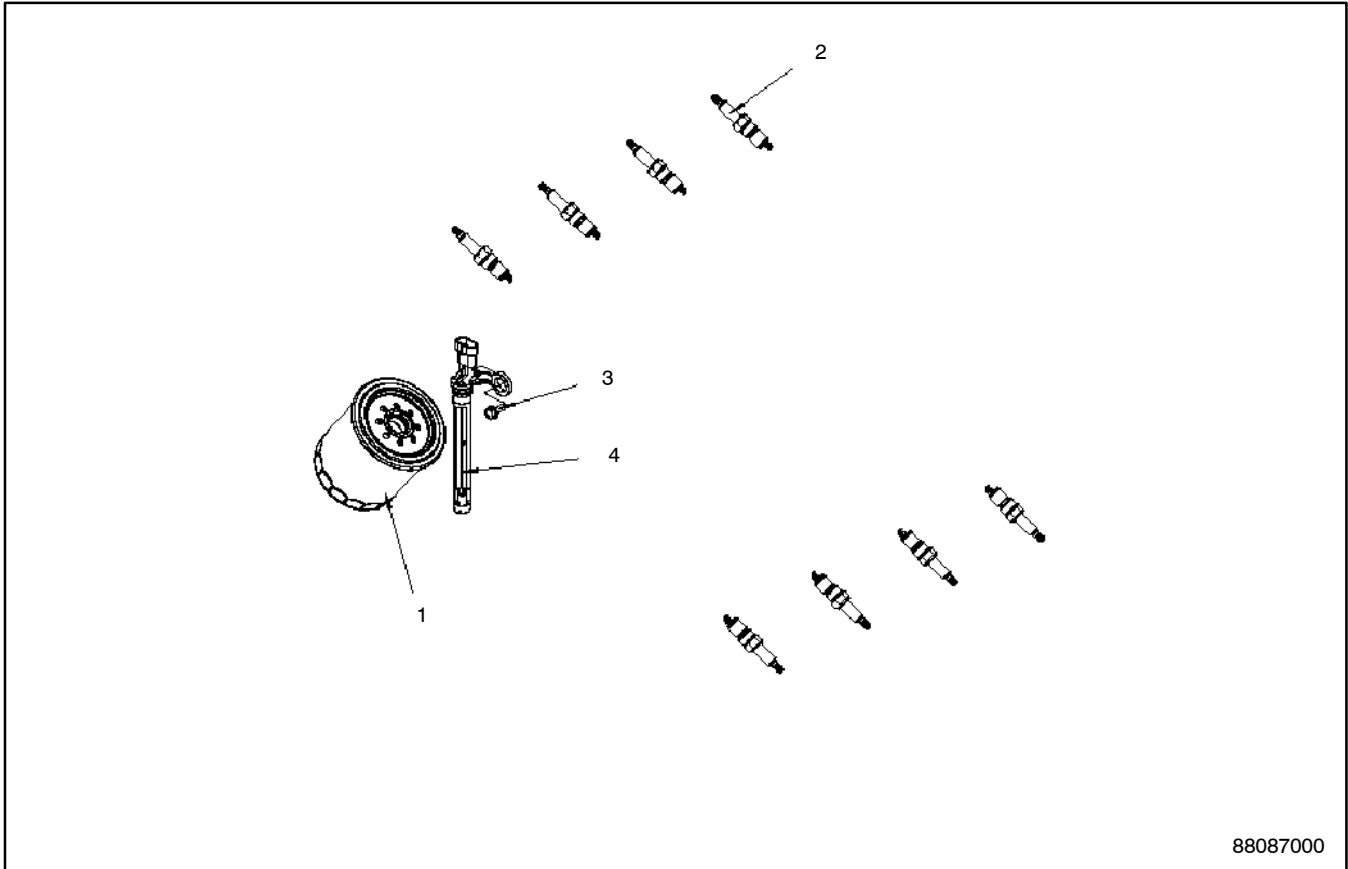
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87611	Plug	2	2	2	2	2
2	GM87664	Intake Manifold	1	1	1	1	1
3	GM87665	Bolt	10	10	10	10	10

2-6: Intake Manifold



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM101463	Manifold, Intake	1	1	1	1	1
2	GM87611	Plug	2	2	2	2	2
3	GM101450	Bolt	10	10	10	10	10
4	GM101451	Washer	10	10	10	10	10

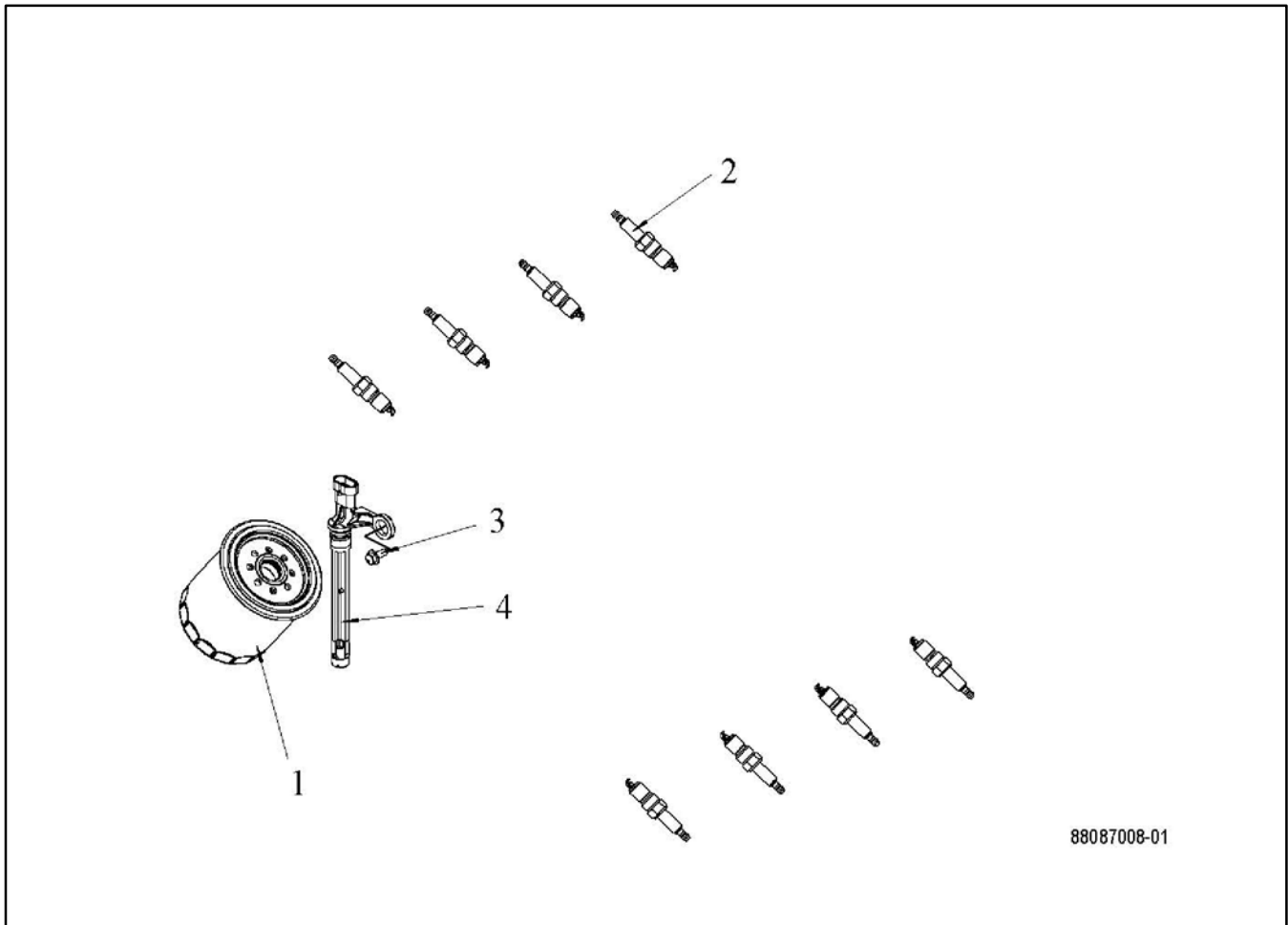
2-7: Sensors and Spark Plugs, Oil Filter



88087000

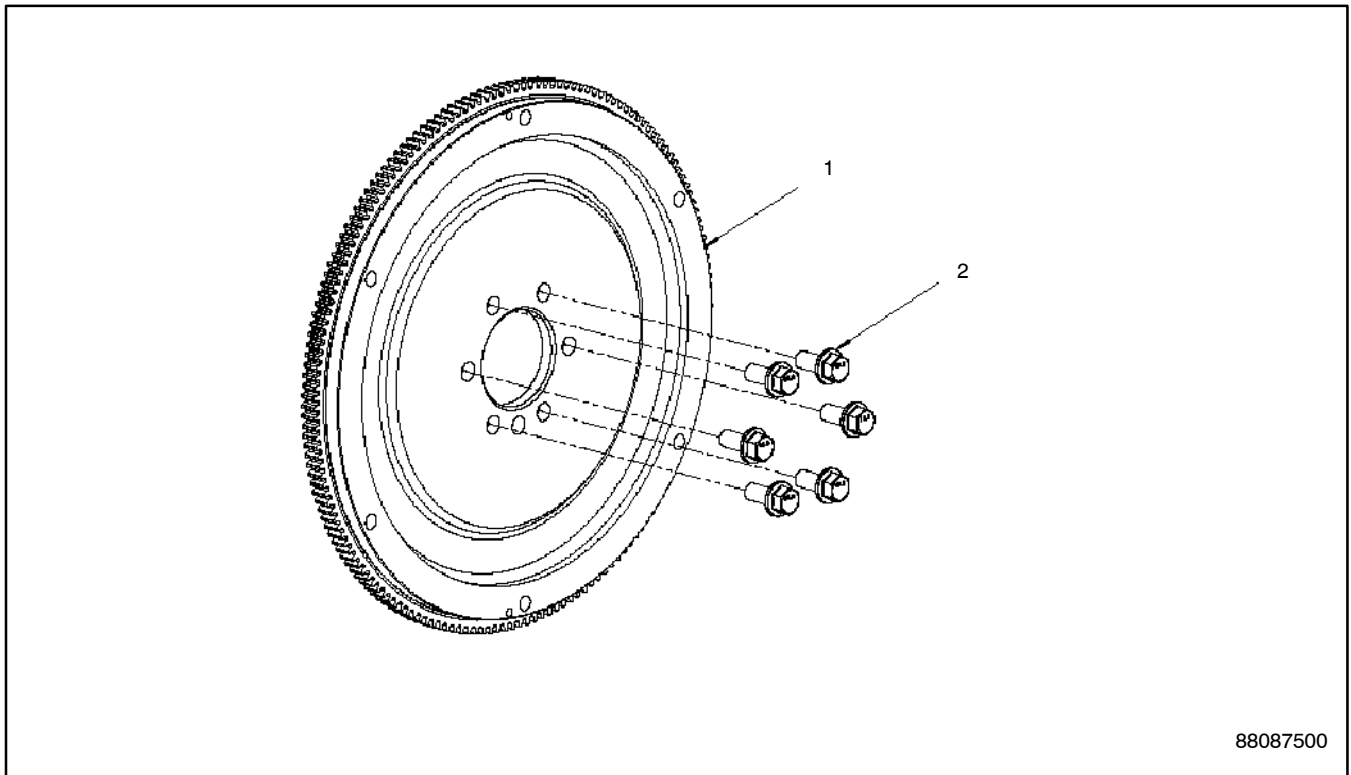
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87592	Oil Filter	1	1	1	1	1
2	GM87608	Spark Plug	8	8	8	8	8
3	GM87616	Bolt	1	1	1	1	1
4	GM87674	Crank Sensor	1	1	1	1	1

2-7: Sensors and Spark Plugs, Oil Filter



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87592	Filter	1	1	1	1	1
2	GM87608	Spark Plug	8	8	8	8	8
3	GM87613	Bolt	1	1	1	1	1
4	GM101454	Sensor, Crk/Shf	1	1	1	1	1

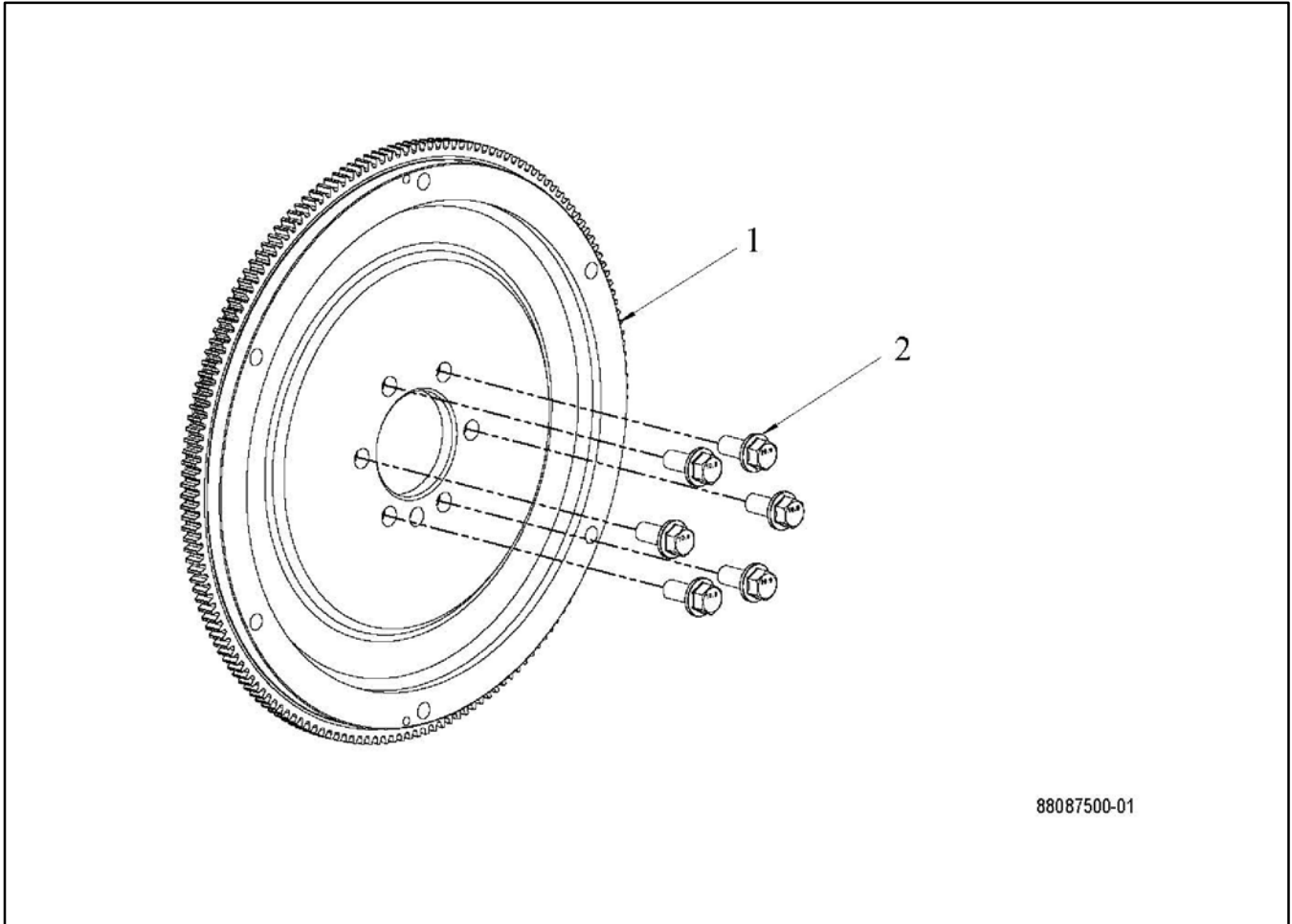
2-8: Flywheel



88087500

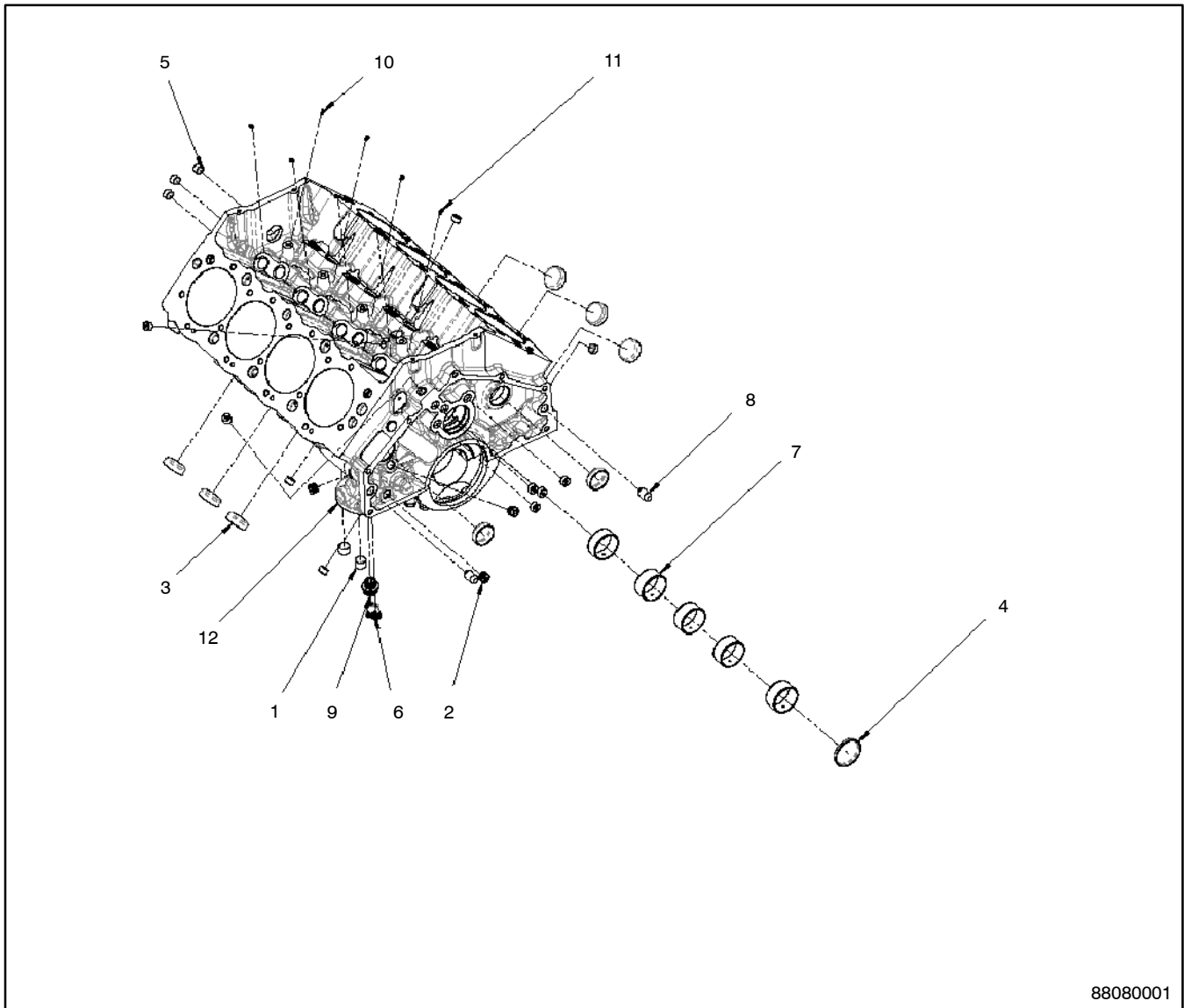
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM75071	Flywheel	1	1	1	1	1
2	GM87673	Bolt	6	6	6	6	6

2-8: Flywheel



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM75071	Flywheel, Eng	1	1	1	1	1
2	GM87673	Bolt	6	6	6	6	6

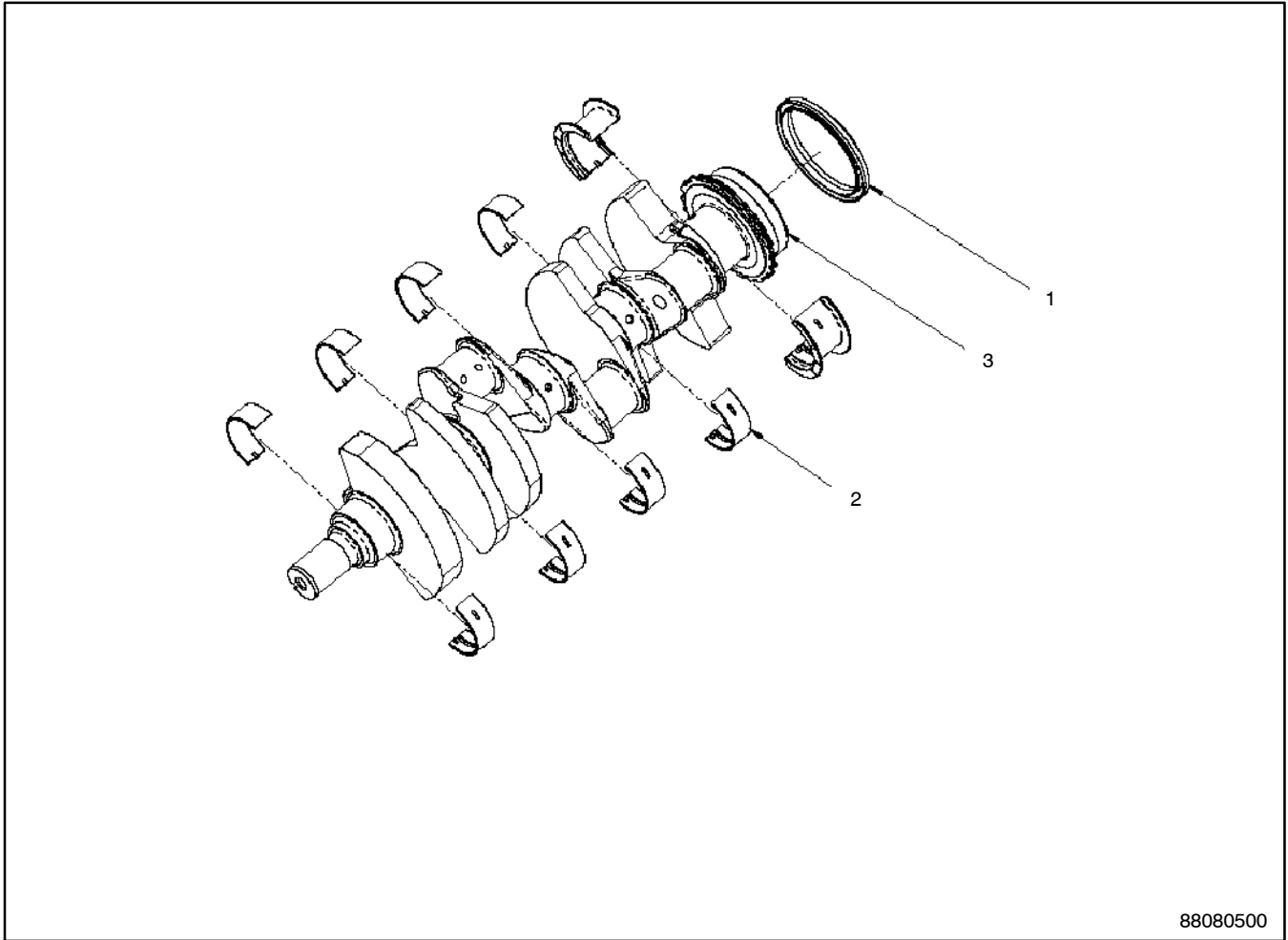
2-9: Cylinder Block



88080001

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87611	Plug	2	2	2	2	2
2	GM72314	Plug, pipe 3/8 in. int. Manifold	3	3	3	3	3
3	GM87620	Core Plug	8	8	8	8	8
4	GM87621	Cam Bore Plug	1	1	1	1	1
5	GM87622	Oil Plug	14	14	14	14	14
6	GM87623	Bypass Valve	2	2	2	2	2
7	GM87667	Bearing Set	1	1	1	1	1
8	GM87670	Dowell	2	2	2	2	2
9	GM87671	Adapter	1	1	1	1	1
10	GM87699	Oil Jet	7	7	7	7	7
11	GM87700	Oil Jet	1	1	1	1	1
12	GM87702	Crankcase	1	1	1	1	1

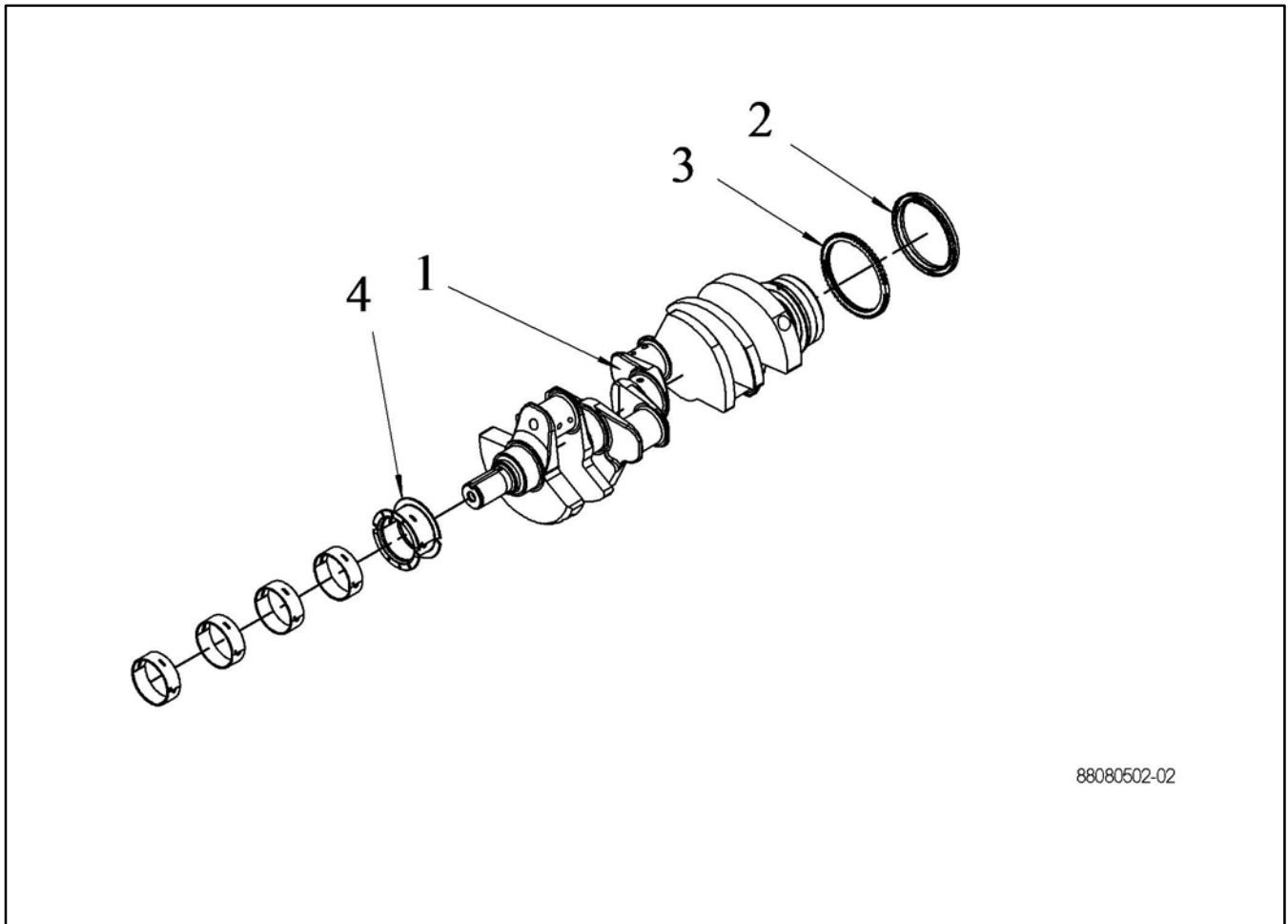
2-10: Crankshaft



88080500

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87624	Crankshaft Seal	1	1	1	1	1
2	GM87644	Crank Bearing Set	1	1	1	1	1
3	GM87619	Crankshaft	1	1	1	1	1

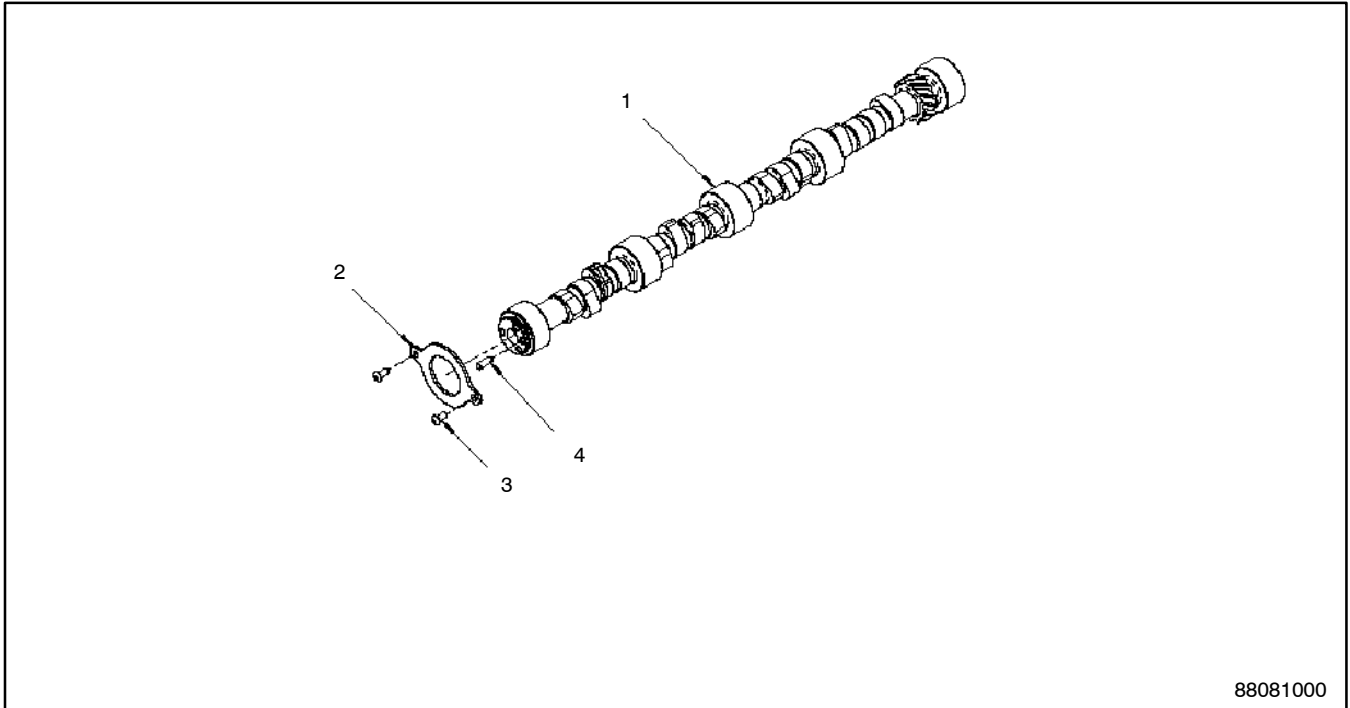
2-10: Crankshaft



88080502-02

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM101462	Crankshaft	1	1	1	1	1
2	GM87624	Crankshaft Seal	1	1	1	1	1
3	GM101455	Ring, Crankshaft	1	1	1	1	1
4	GM101475	Bearing, Main	1	1	1	1	1

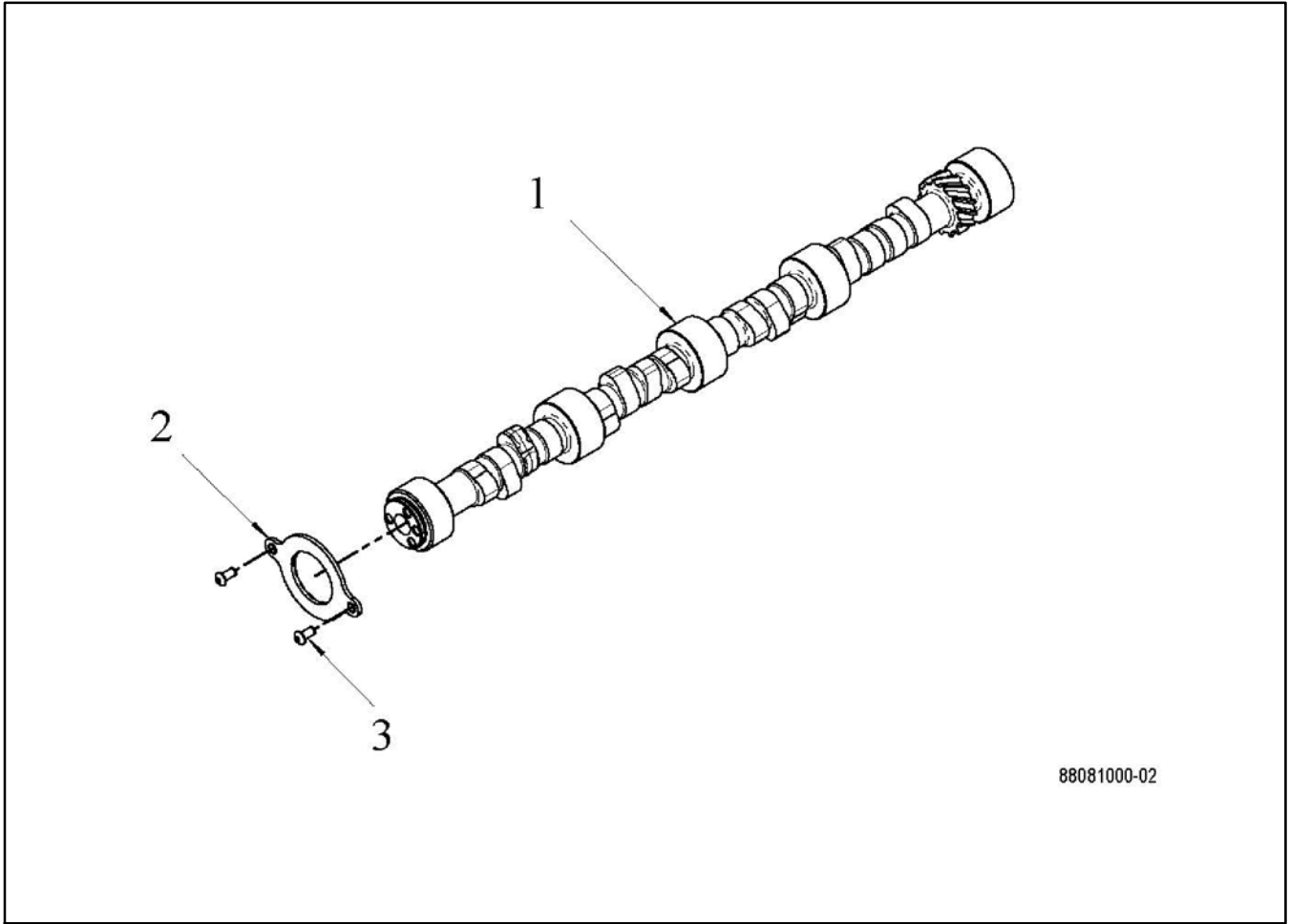
2-11: Camshaft



88081000

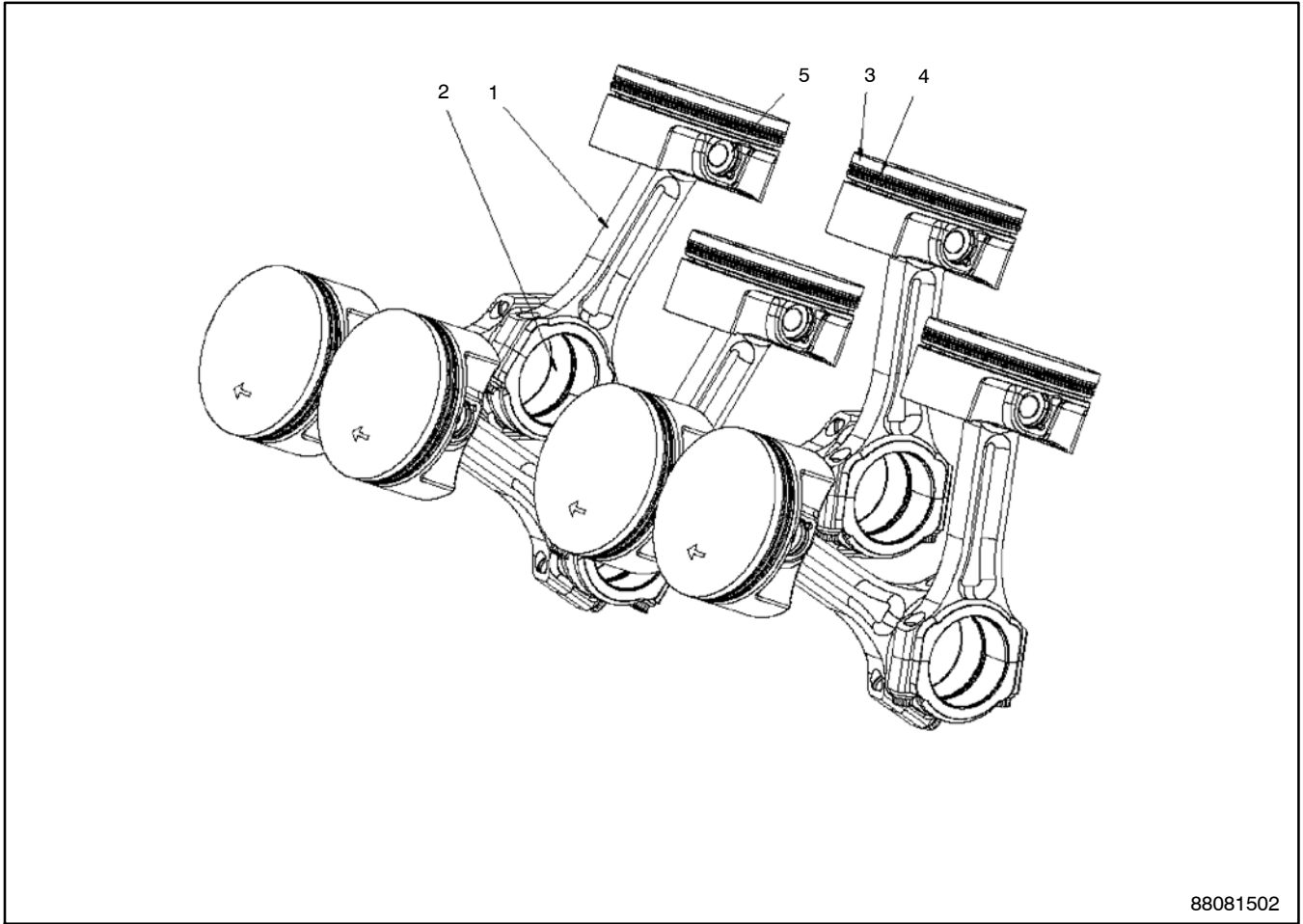
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87625	Camshaft	1	1	1	1	1
2	GM87626	Retainer	1	1	1	1	1
3	GM87627	Bolt	2	2	2	2	2
4	GM87675	Pin	1	1	1	1	1

2-11: Camshaft



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87625	Camshaft	1	1	1	1	1
2	GM87626	Retainer	1	1	1	1	1
3	GM87627	Bolt	2	2	2	2	2

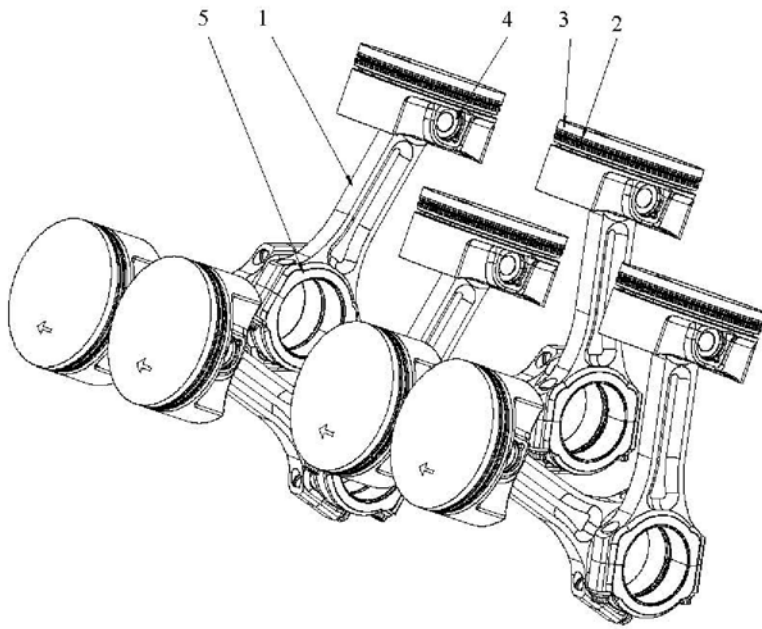
2-12: Piston & Rods



88081502

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87587	Rod Assembly	8	8	8	8	8
2	GM87681	Rod Bearing	8	8	8	8	8
3	GM87690	Piston	8	8	8	8	8
4	GM87691	Piston Ring Set	1	1	1	1	1
5	GM87692	Pin	8	8	8	8	8

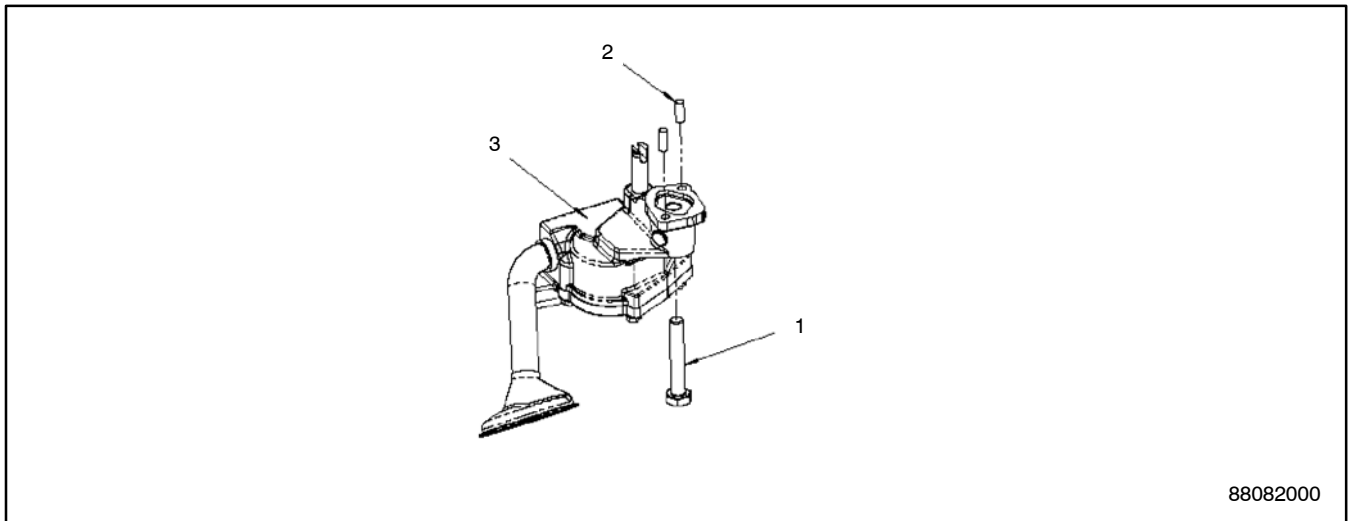
2-12: Piston & Rods



88081503-01

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM101473	Rod, Connecting	8	8	8	8	8
2	GM87690	Piston	8	8	8	8	8
3	GM87691	Piston Ring Set	8	8	8	8	8
4	GM87692	Pin	8	8	8	8	8
5	GM101472	Bearing, C/Rod	8	8	8	8	8

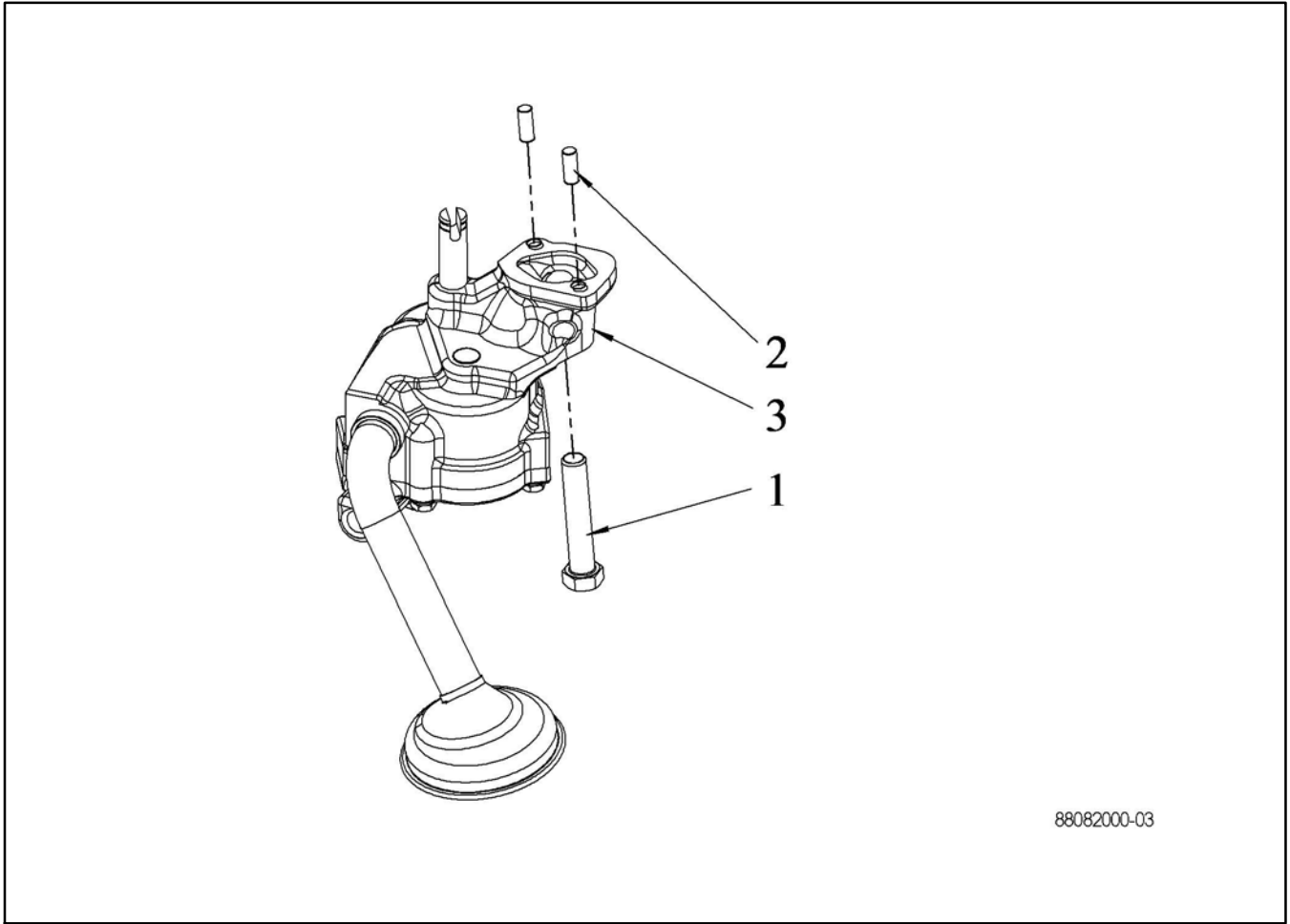
2-13: Oil Pump



88082000

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87628	Bolt	1	1	1	1	1
2	GM87675	Pin	2	2	2	2	2
3	GM87687	Oil Pump Tube	1	1	1	1	1

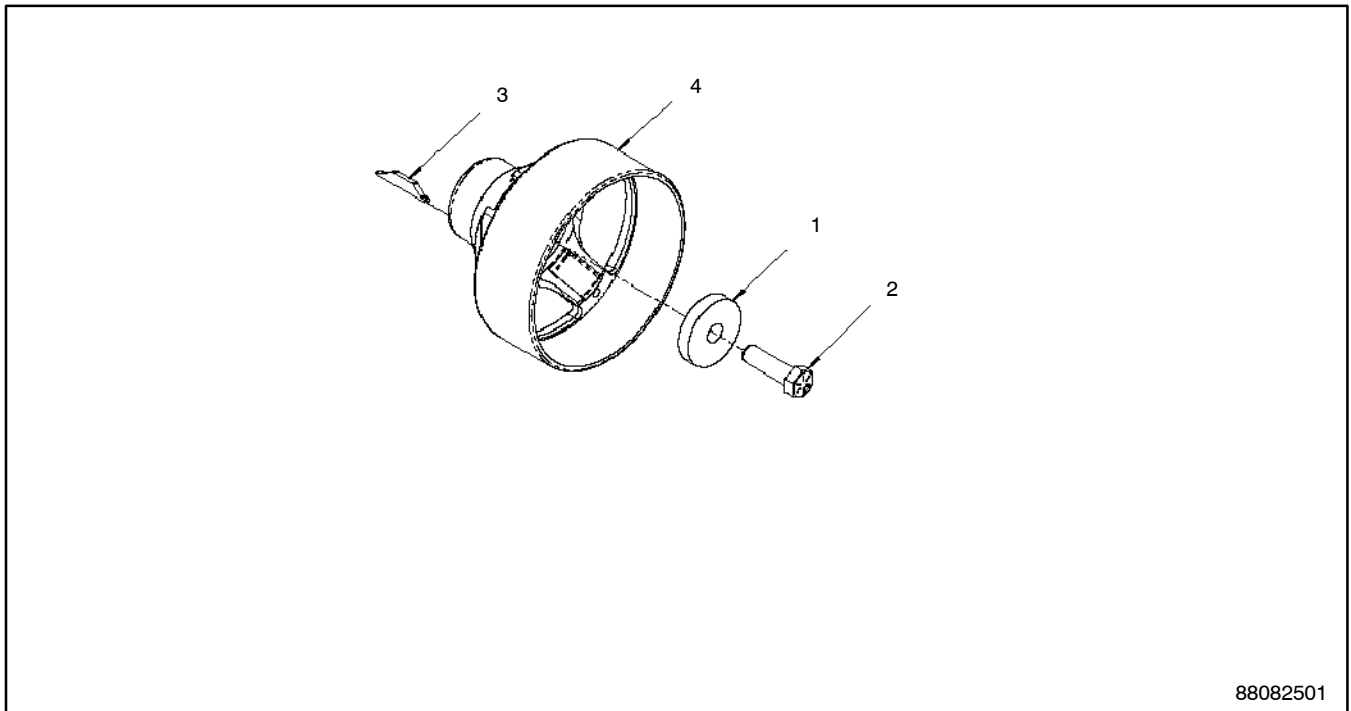
2-13: Oil Pump



88082000-03

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87628	Bolt	1	1	1	1	1
2	GM87675	Pin	2	2	2	2	2
3	GM101469	Pump, Oil	1	1	1	1	1

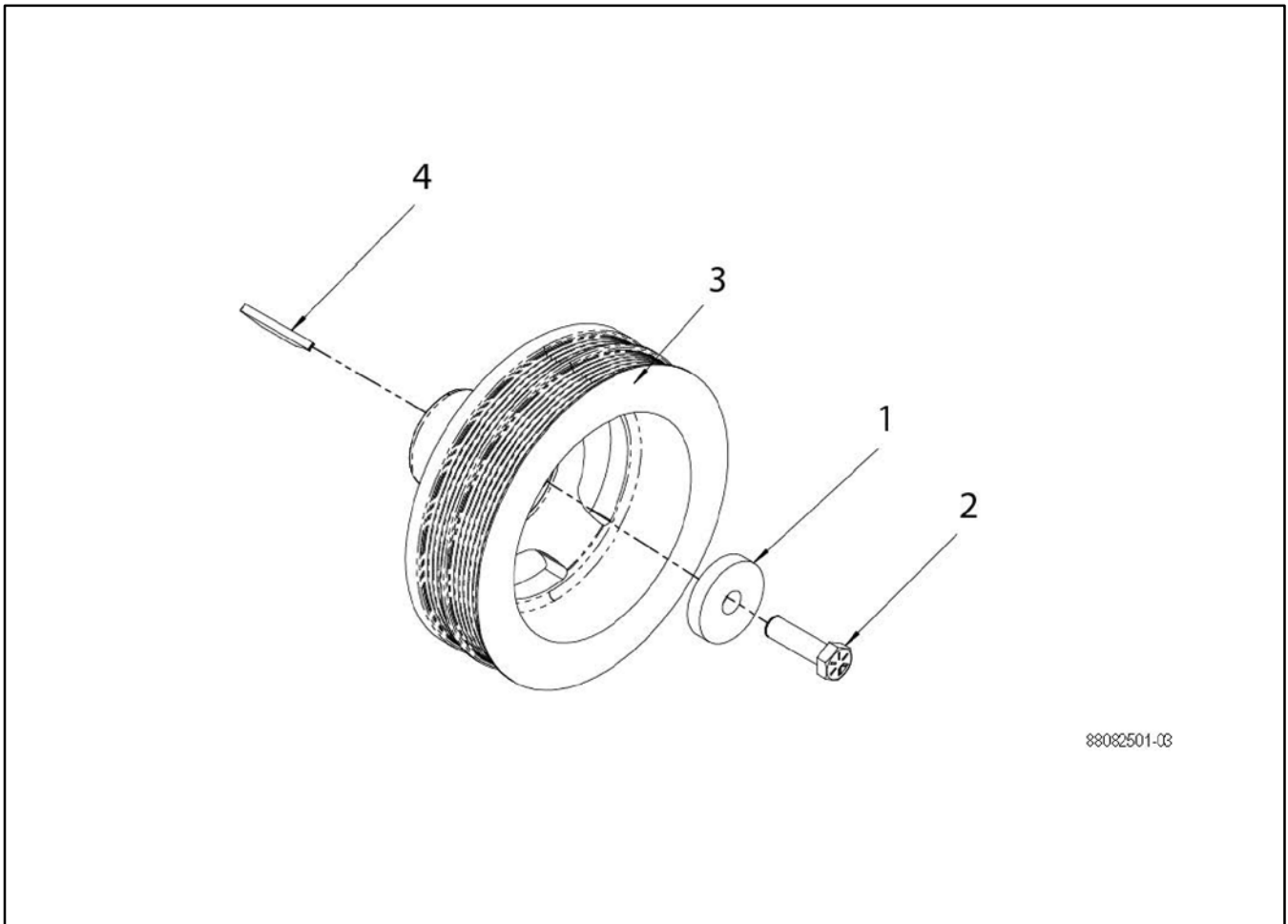
2-14: Crankshaft Balancer



88082501

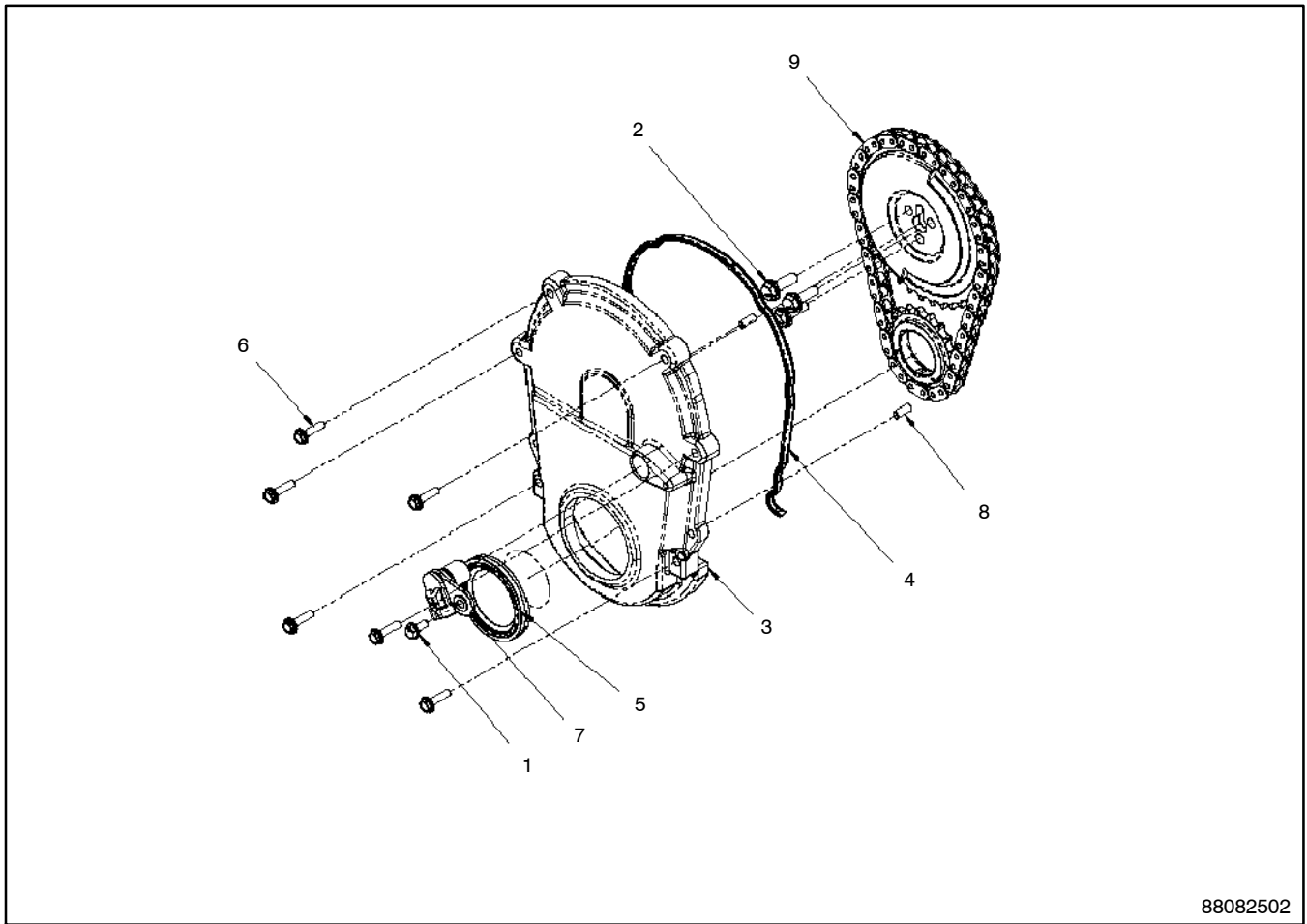
Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87634	Washer	1	1	1	1	1
2	GM87635	Bolt	1	1	1	1	1
3	GM87636	Key	1	1	1	1	1
4	GM87587	Rod Assembly	1	1	1	1	1

2-14: Crankshaft Balancer



Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87634	Washer	1	1	1	1	1
2	GM87635	Bolt	1	1	1	1	1
3	GM87588	Balancer	1	1	1	1	1

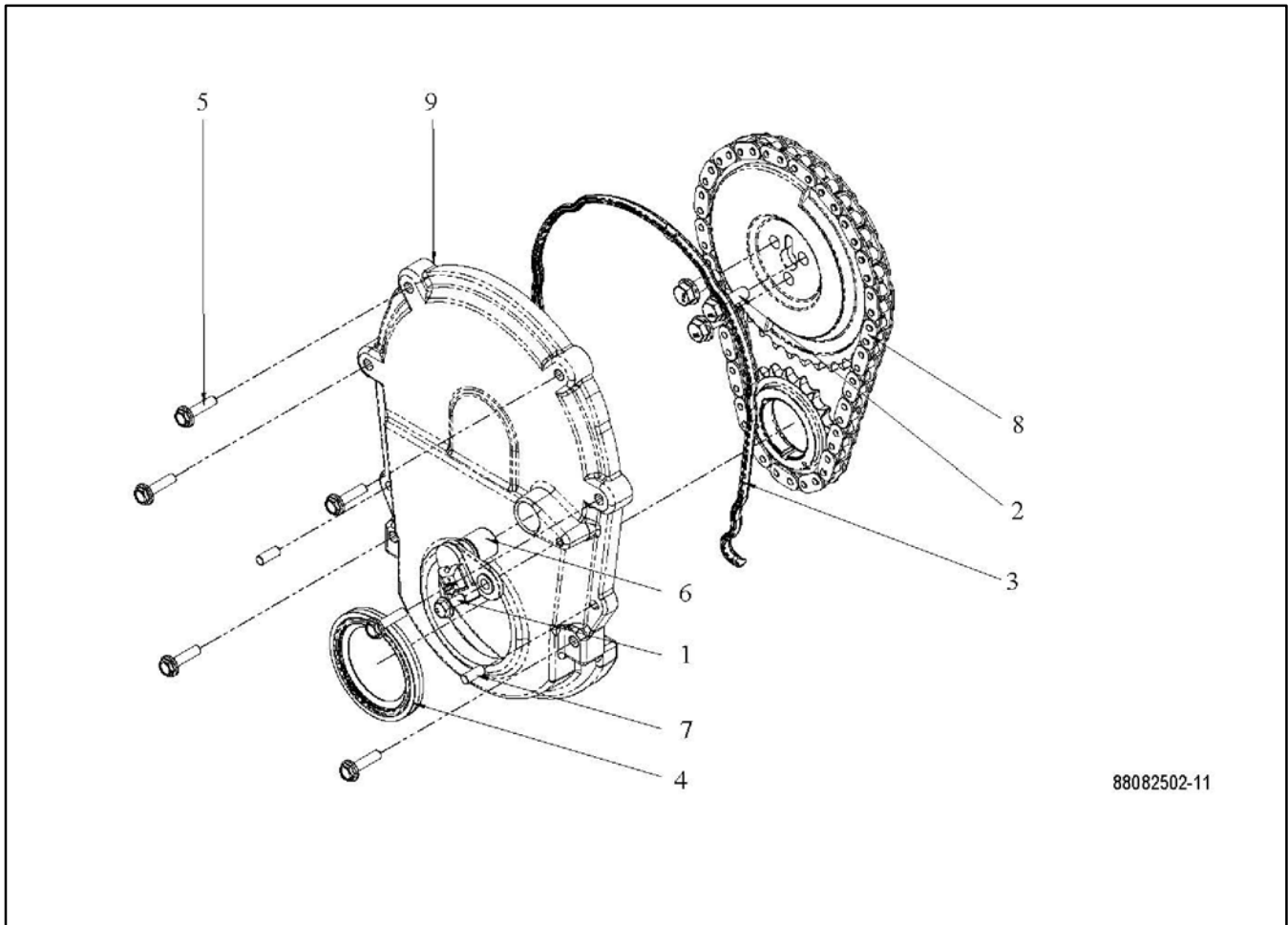
2-15: Front Drive



88082502

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87616	Bolt	1	1	1	1	1
2	GM87629	Bolt	3	3	3	3	3
3	GM87630	Front Cover	1	1	1	1	1
4	GM87631	Gasket	1	1	1	1	1
5	GM87632	Seal	1	1	1	1	1
6	GM87633	Cover Bolt	6	6	6	6	6
7	GM87672	Camshaft Sensor	1	1	1	1	1
8	GM87675	Pin	2	2	2	2	2
9	GM87701	Timing Set	1	1	1	1	1

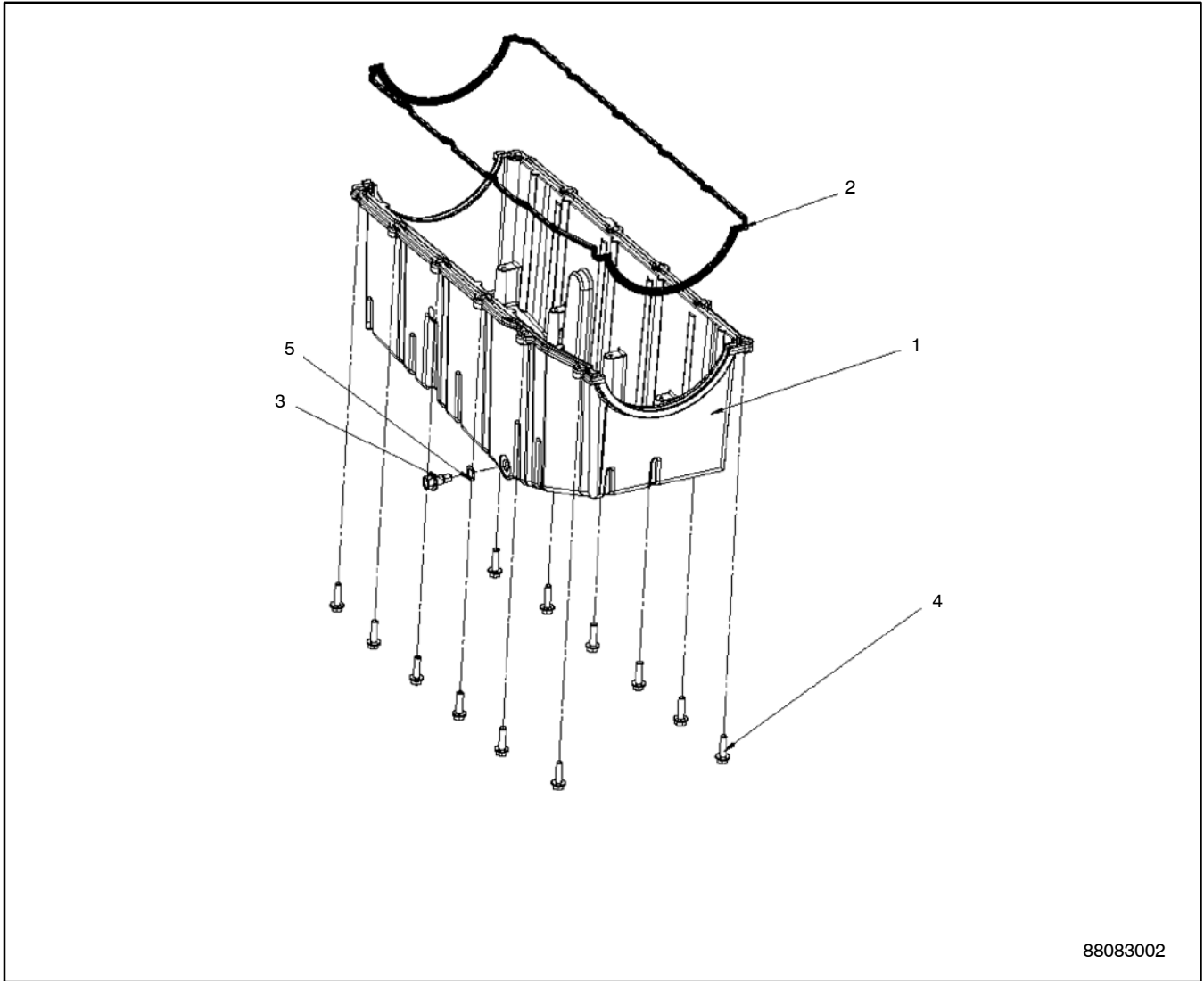
2-15: Front Drive



88082502-11

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87613	Bolt	1	1	1	1	1
2	GM87629	Bolt	3	3	3	3	3
3	GM87631	Gasket	1	1	1	1	1
4	GM87632	Seal	1	1	1	1	1
5	GM87655	Bolt	6	6	6	6	6
6	GM87672	Camshaft Sensor	1	1	1	1	1
7	GM87675	Pin	2	2	2	2	2
8	GM101474	Timing Set, Cam Sprocket	1	1	1	1	1
9	GM87630	Front Cover	1	1	1	1	1

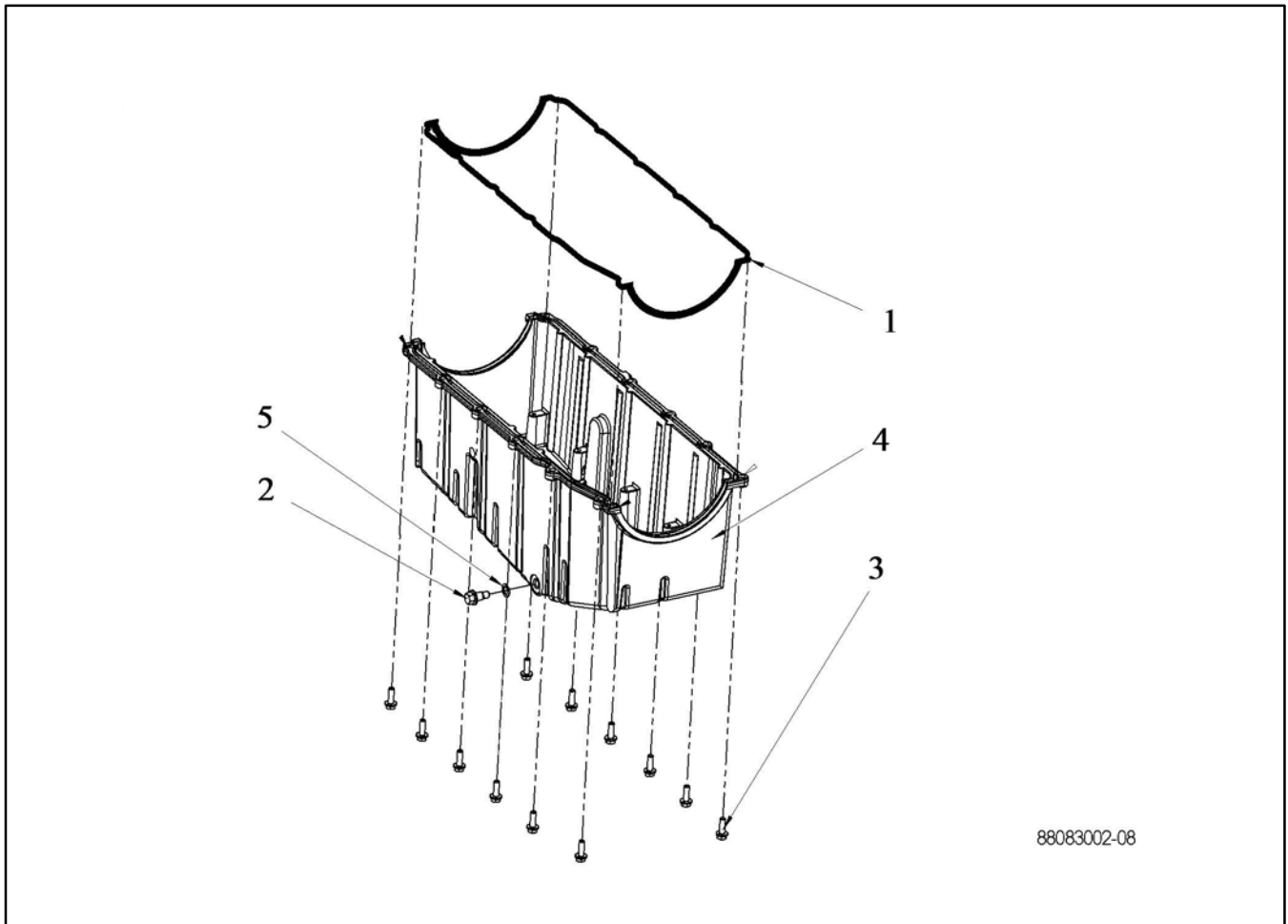
2-16: Oil Pan



88083002

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87637	Oil Pan	1	1	1	1	1
2	GM87638	Oil Pan Gasket	1	1	1	1	1
3	GM87639	Drain Plug	1	1	1	1	1
4	GM87640	Bolt	12	12	12	12	12
5	GM87685	Washer	1	1	1	1	1

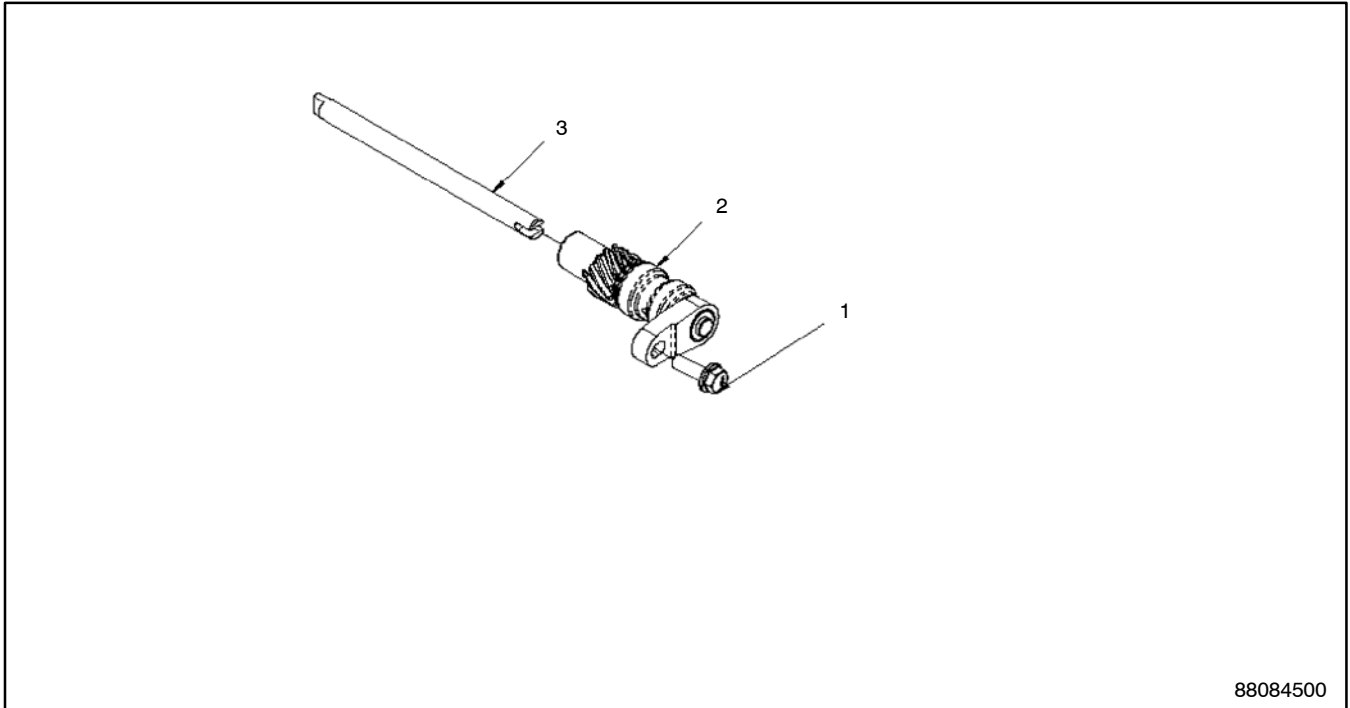
2-16: Oil Pan



88083002-08

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87638	Oil Pan Gasket	1	1	1	1	1
2	GM87639	Drain Plug	1	1	1	1	1
3	GM87629	Bolt	12	12	12	12	12
4	GM18989	Pan, oil (includes pan,plug,gasket)	1	1	1	1	1
5	GM87685	Washer	1	1	1	1	1

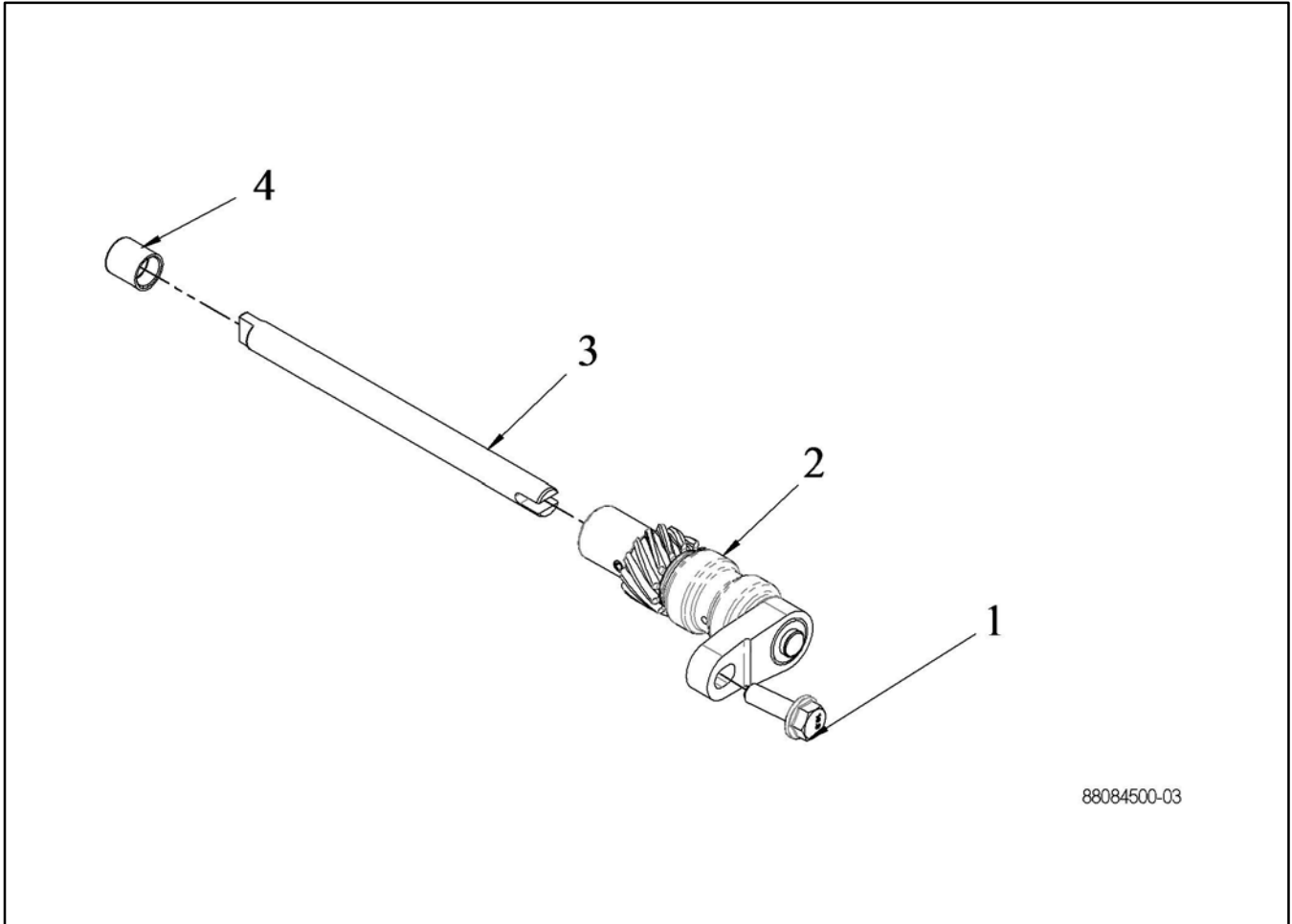
2-17: Oil Pump Drive



88084500

Item	Part No.	Description	Engine Number/Qty.				
			GM77414-1	GM77528-1	GM77528-2	GM77529-1	GM77529-2
1	GM87629	Bolt	1	1	1	1	1
2	GM87651	Oil Pump Drive	1	1	1	1	1
3	GM87669	Oil Pump Shaft	1	1	1	1	1

2-17: Oil Pump Drive



88084500-03

Item	Part No.	Description	Engine Number/Qty.				
			GM99488-2	GM99488-1	GM99487-1	GM99486-1	GM99486-2
1	GM87629	Bolt	1	1	1	1	1
2	GM87651	Oil Pump Drive	1	1	1	1	1
3	GM101467	Shaft, Oil Pump	1	1	1	1	1
4	GM101468	Retainer, Oil Pump Shaft	1	1	1	1	1

Notes

Notes

TP-6846 8/16b

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