CUSHMAN®
By Jacobsen

4140632



Engine Parts Manual

Suzuki 660 K6A YH6

2006 Turf Truckster
2006 Haulster
2006 Spraytek DS175



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.

JACOBSEN
A Textron Company

GB

To Order Parts

1. Write your **full** name and **complete** address on the order.
2. Explain where and how to make shipment.
3. Give product number, name and serial number that is stamped on the name plate or serial plate of your product.
4. Order by the quantity desired, the part number, paint code, and description of the part as given in the parts list.
5. Send or bring the order to an authorized Jacobsen Dealer.
6. Inspect all shipments on receipt. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. Do not return material without a letter of explanation, listing the parts being returned. Transportation charges must be prepaid.

Use of other than Jacobsen authorized parts will void the warranty.

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Litho in U.S.A. 4-2006

Suggested Stocking Guide

To Keep your Equipment fully operational and productive, maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids. A more complete listing of accessories and attachments can be found in the Specifications Section.

Service Parts

Part No.	Description	Part No.	Description
2701908	Engine Oil Filter	4148092	Engine Gasket Set
2701898	Engine Fuel Filter Element	4140919	Water Pump - Alternator Belt
4120056	PCV Valve	4120037	Timing Chain
4148206	Thermostat	4148374	Alternator
4148360	Manual Transmission Starter	4148361	Automatic Transmission Starter
4148204	Water Pump	4140986	Fuel Injector
4149093	Plug, Oil Drain	2701916	Gasket, Oil Drain Plug
4119606	Spark Plug (NGK, DCPR7E)	2701832	Spark Plug (Denso, XU22EPR-U)
4148384	Ignition Coil (Mitsubishi)	4148383	Ignition Coil (Denso)
4148202	Cap, Oil Filler		

How To Use This Manual

Abbreviations

N/S - Not serviced seperately, can only be obtained by ordering main component or kit.
AR -Variable quantity or measurement is required to obtain correct adjustment.
Symbols such as ▲, next to the item number, indicate that a note exists which contain additional information important in ordering that part.

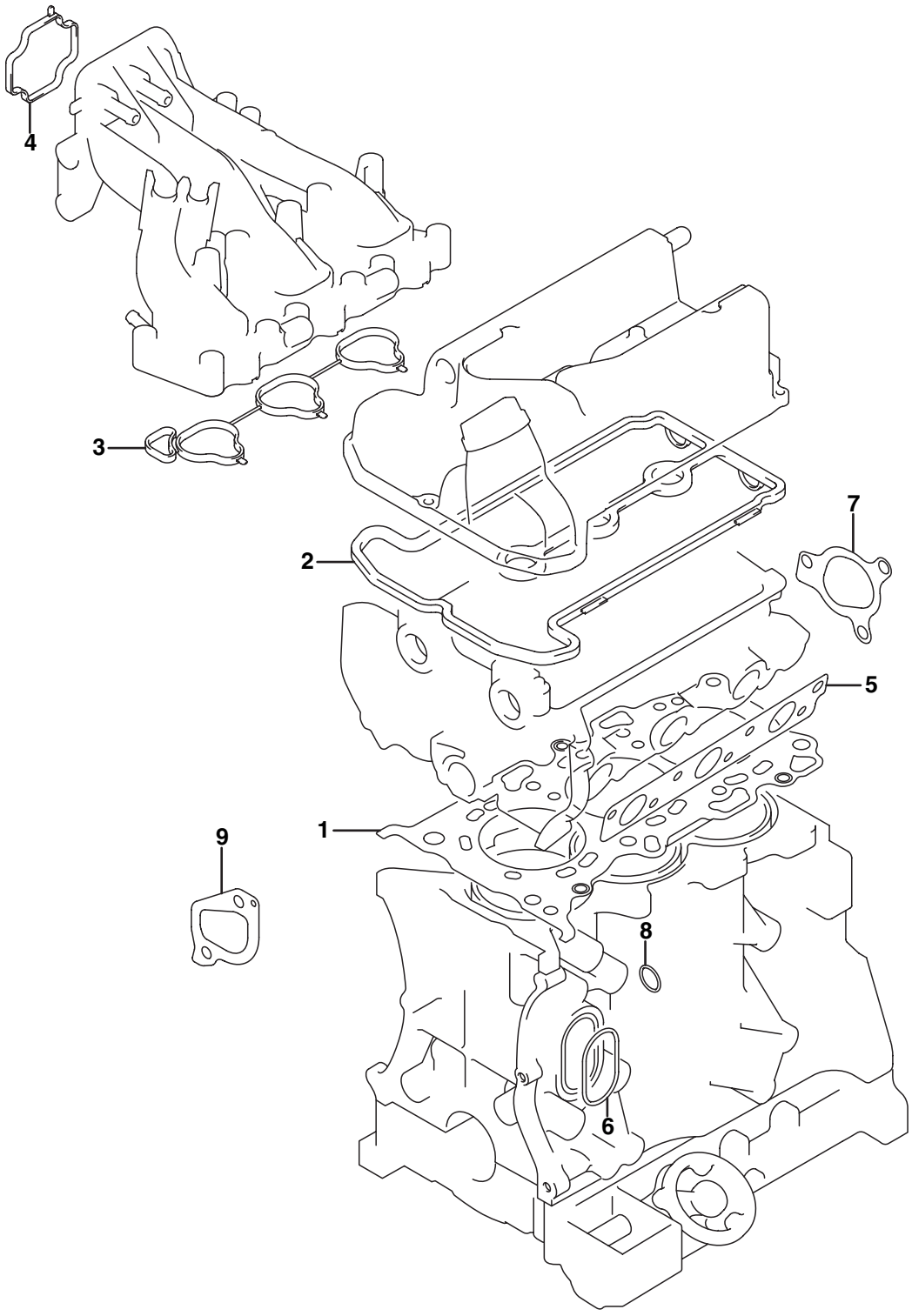
Indented Items

Bulleted items indicate component parts that are included as part of an assembly or another component. These parts can be ordered separetely or as part of the main component.

Item	Part No.	Qty	Description	Serial Numbers/Notes
▲ 1	123456	1	Mount, Valve	*Indicates a piece part*
2	789012	1	Valve, Lift	*Includes Items 2 and 3*
3	345678	1	• Handle	*Serviced part included with Item 2*
4	N/S	1	• Seal Kit	*Non serviced part included with Item 2*
5	901234.6	1	Screw, 1/4-20 x 2” Hex Head	*Indicates part 901234 painted Orange*
5	901234.2	1	Screw, 1/4-20 x 2” Hex Head	*Indicates part 901234 painted Green*

1.1 Engine Gaskets

Serial No. All

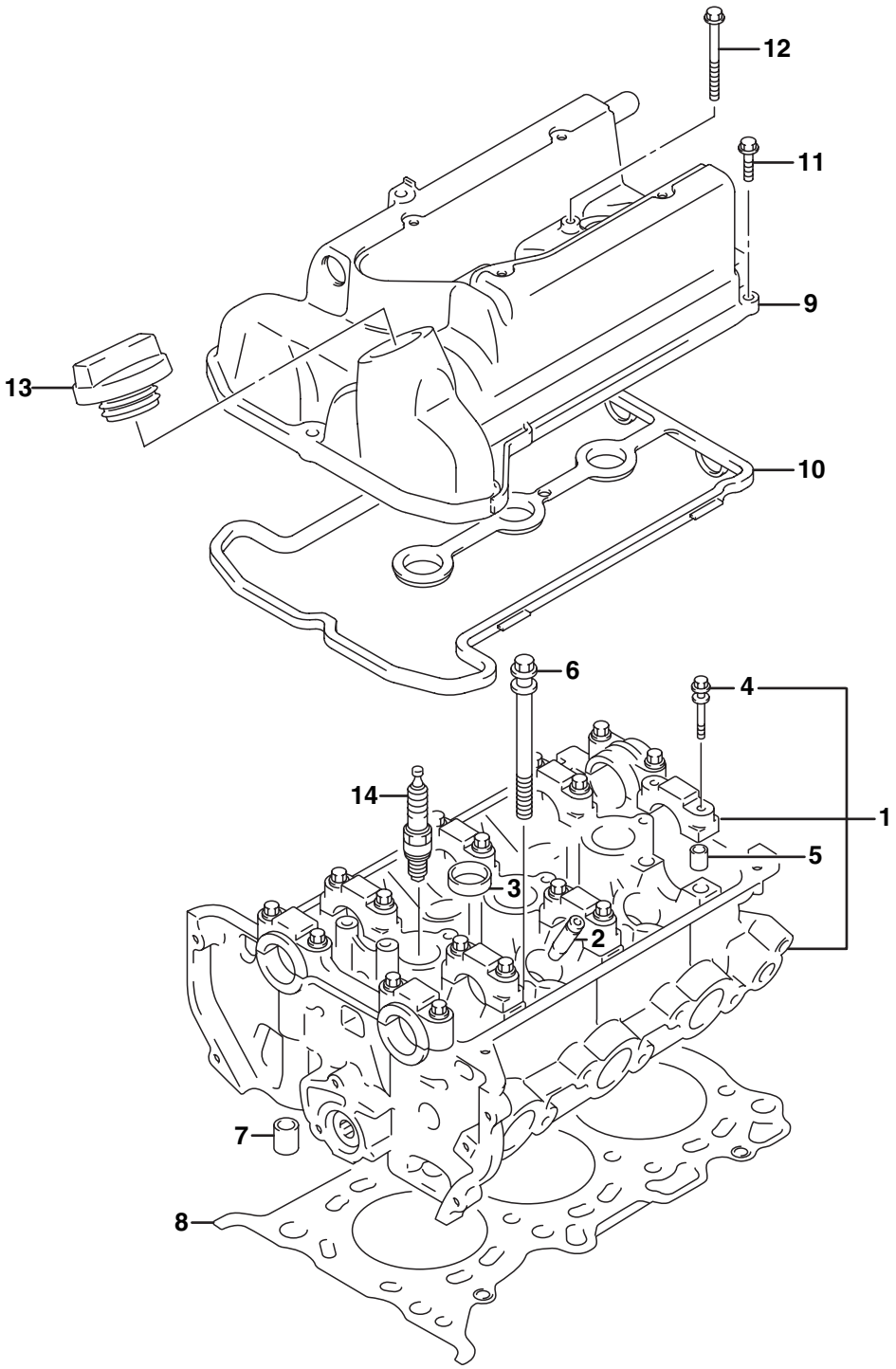


Item	Part No.	Qty.	Description	Serial Numbers/Notes
	4148092	1	Gasket Set, Engine	
1	4119957	1	• Gasket, Cylinder Head	
2	4140891	1	• Gasket, Cylinder Head Cover	
3	4148145	1	• Gasket, Intake Manifold	
4	4148148	1	• Gasket, Throttle Body	
5	4140981	1	• Gasket, Exh Manf	
6	4119965	1	• O Ring, Water Pump	
7	4119967	1	• Gasket, Thermostat Case	
8	4119609	1	• O Ring, Water Inlet Pipe	
9	4140893	1	• Gasket, Tens Adjuster	

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2.1 Cylinder Head

Serial No. All

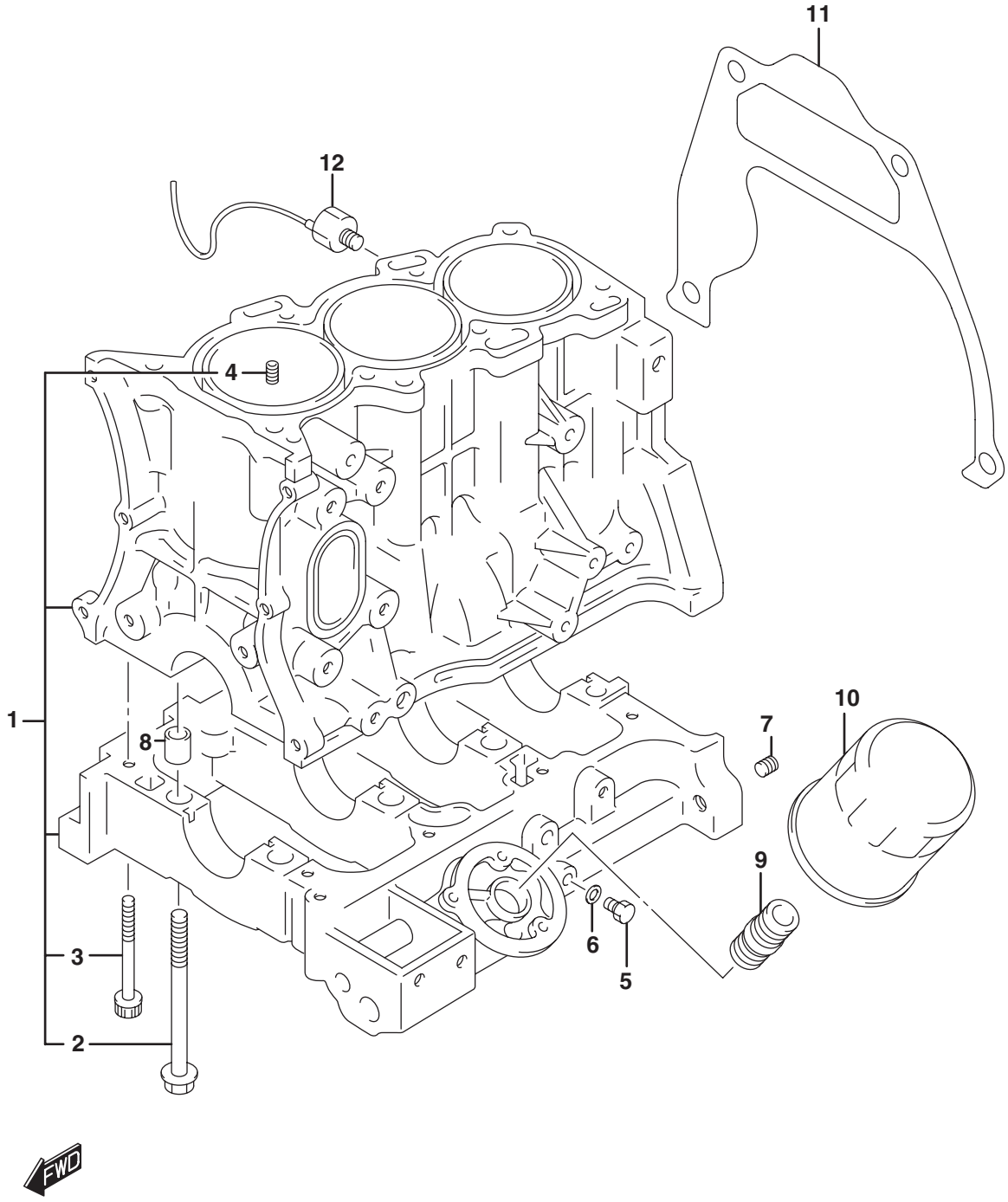


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148087	1	Head Assy, Cylinder	
2	4140895	12	• Guide, Valve	
3	2701816	2	• Plug (Od:20)	
4	4119964	17	• Bolt	
5	2701821	14	• Pin	
6	4119956	8	Bolt, Cylinder Head	
7	4119966	2	Pin	
8	4119957	1	Gasket, Cylinder Head	
9	4148089	1	Cover, Cylinder Head	
10	4140891	1	Gasket, Head Upper Cover	
11	4119970	5	Bolt	
12	4119971	1	Bolt	
13	4148202	1	Cap, Oil Filler	
14	4119606	3	Spark Plug (Ngk,dcpr7e)	
14	2701832	3	Spark Plug (Denso,xu22epr-u)	

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3.1 Cylinder Block

Serial No. All

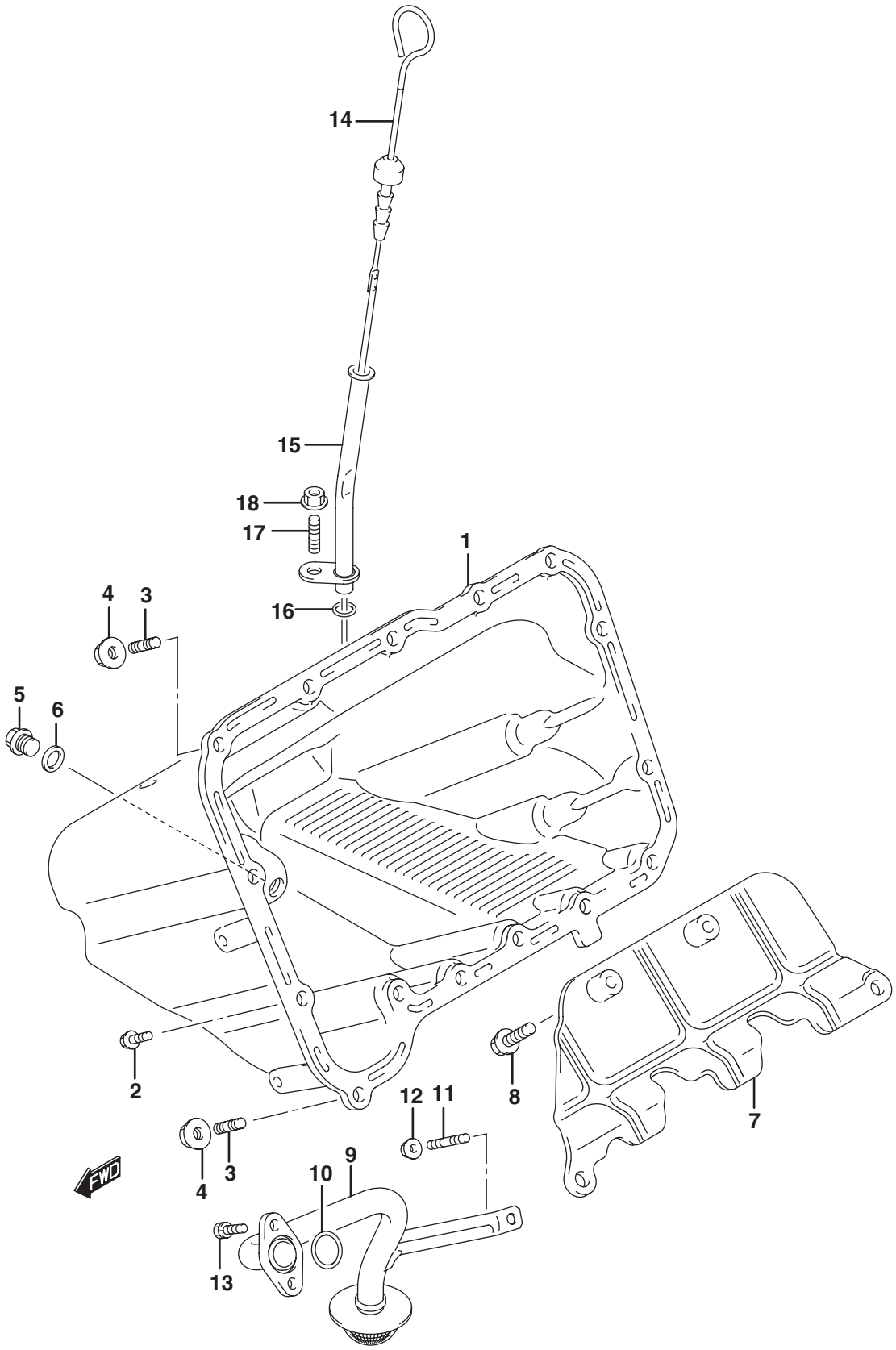


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148394	1	Block Assy, Cylinder	
2	4119956	8	• Bolt, Crankcase	
3	4120006	8	• Bolt, Crankcase No.2	
4	4148088	1	• Plug, Oil Venturi	
5	4120007	1	• Plug, Oil Gallery No.2	
6	4120008	1	• Gasket, Oil Gallery Plug	
7	4119604	1	• Plug, Oil Gallery	
8	2701824	4	Pin	
9	4120009	1	Stand, Oil Filter	
10	2701908	1	Filter Assy, Oil	
11	4140899	1	Plate, Clutch Housing Upper	Manual Transmission
11	4140900	1	Plate, Clutch Housing Upper	Automatic Transmission
12	4140901	1	Sensor Assy, Knock	

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4.1 Oil Pan

Serial No. All

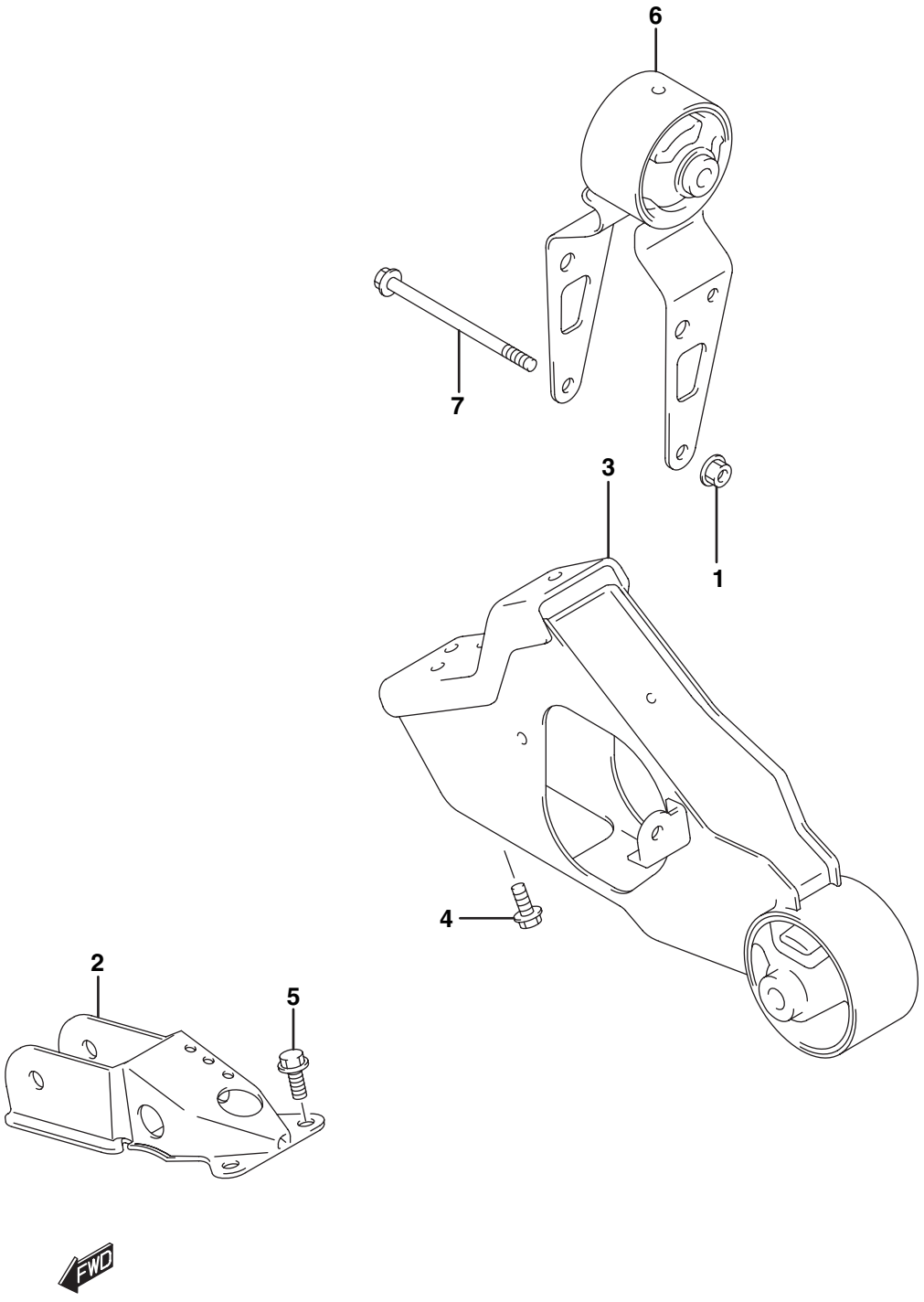


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4139968	1	Pan, Oil	
2	4148062	12	Bolt (6x16)	
3	4120013	3	Stud Bolt	
4	2701914	3	Nut	
5	4148093	1	Plug, Drain	
6	2701916	1	Gasket, Drain Plug	
7	4140902	1	Plate, Oil Pan Baffle	
8	2701829	1	Bolt	
9	4140903	1	Strainer, Oil Pump	
10	2701920	1	O Ring	
11	4148393	1	Stud Bolt	
12	2701914	1	Nut	
13	2701921	2	Bolt	
14	4140904	1	Gauge, Oil Level	
15	4148203	1	Guide, Gauge	
16	4119605	1	O Ring	
17	4120015	1	Stud Bolt	
18	2701914	1	Nut	

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5.1 Engine Mounts

Serial No. All

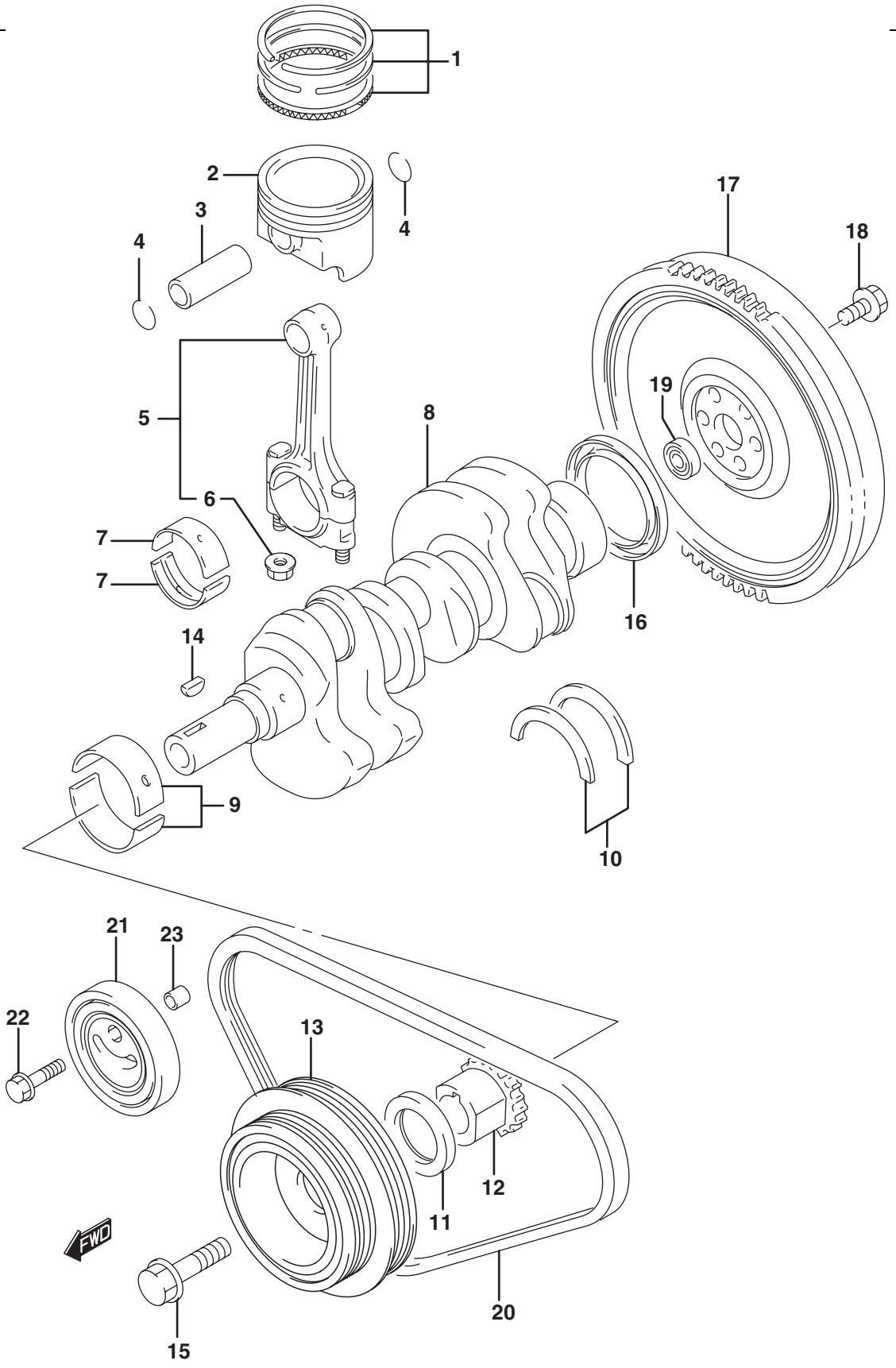


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2703002	2	Nut, Rear Mtg Brkt	
2	4120017	1	Bracket, Fr Mtg Rh	
3	4120018	1	Mounting, Fr Lh	
4	2701827	4	Bolt, Mtg Brkt Lh & Eng	
5	4140905	3	Bolt, Mtg Brkt Rh & Eng	
6	4148095	1	Mounting, Rear	Manual Transmission
6	4148094	1	Mounting, Rear	Automatic Transmission
7	2702661	2	Bolt, Rr Mtg & T/m	

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6.1 Crankshafts

Serial No. All

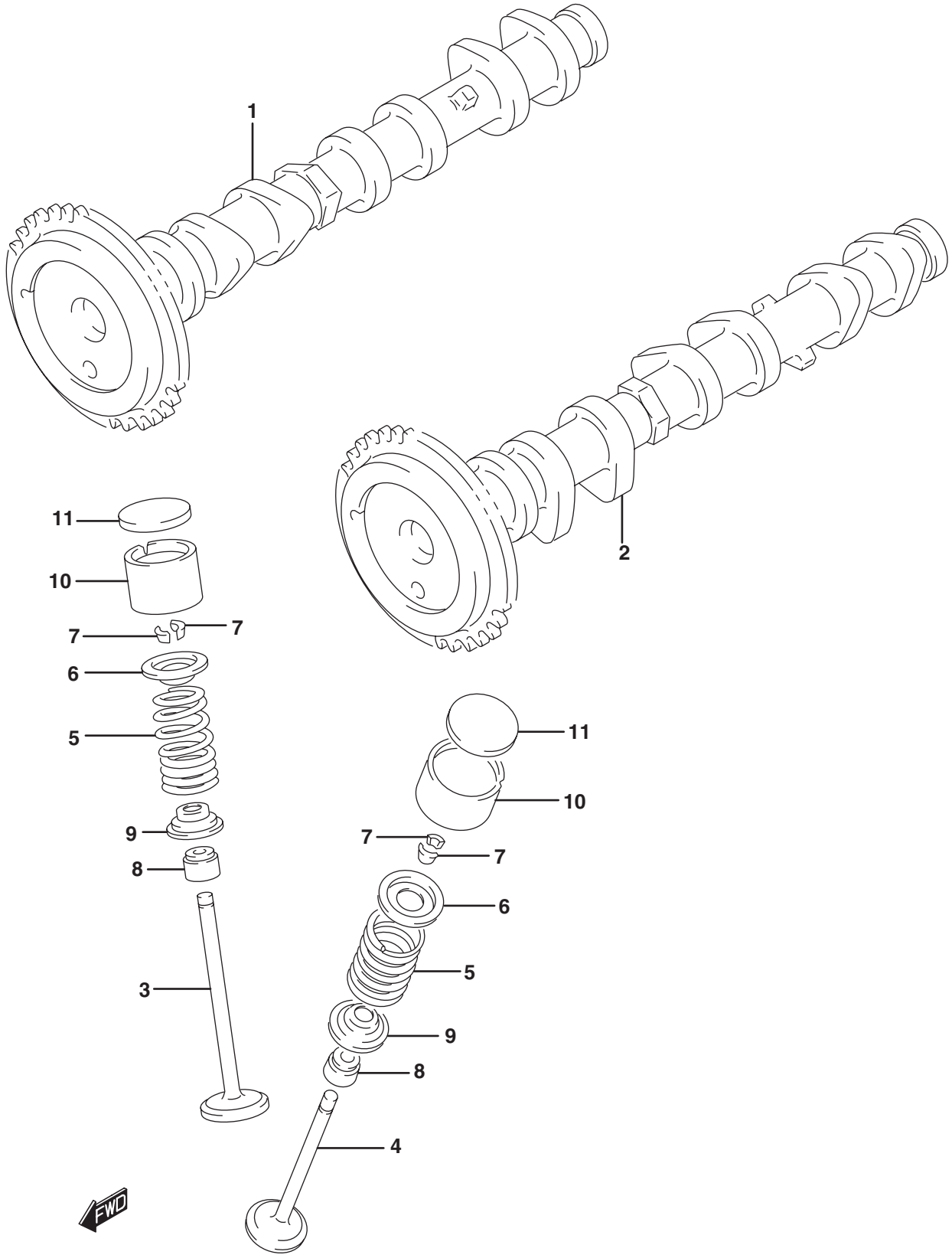


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4119978	3	Ring Set, Piston (Std)	
1	4119979	3	Ring Set, Piston (Os:0.50)	
2	4119980	3	Piston (Std,mark 1)	
2	4119981	3	Piston (Std,mark 2)	
2	4119982	3	Piston (Os:0.50)	
3	4119983	3	Pin, Piston	
4	4119984	6	Circlip	
5	4140906	3	Connrod Assy	
6	2701931	6	• Nut	
7	4140907	6	Bearing Set, Connrod T:1.5	
8	4119986	1	Crankshaft	
9	4140908	4	Bearing Set, Crankshaft T:1.2,#1,#2,	(Color:green)
9	4140909	4	Bearing Set, Crankshaft T:1.2,#1,#2,	(Color:black)
9	4140910	4	Bearing Set, Crankshaft T:1.2,#1,#2,	(Non Color)
9	4140911	4	Bearing Set, Crankshaft T:1.2,#1,#2,	(Color:yellow)
9	4140912	4	Bearing Set, Crankshaft T:1.2,#1,#2,	(Color:brown)
10	2701937	1	Bearing Set, Crank Thrust STD,T:2.5	
10	2701938	1	Bearing Set, Crank Thrust OS,T:2.563	
11	2701955	1	Seal, Crankshaft Front Oil	
12	4140918	1	Sprocket, Crank Timing	
13	4148097	1	Pulley, Crankshaft	
14	4120021	1	Key	
15	4120022	1	Bolt	
16	4120023	1	Seal, Oil	
17	4120024	1	Flywheel	Manual Transmission Only
18	4119955	6	Bolt (10x18.5)	Manual Transmission Only
19	2701952	1	Bearing, Input Shaft	Manual Transmission Only
20	4140919	1	Belt, Water Pump (4pk870)	
21	4148205	1	Tensioner Assy	
22	4120028	2	Bolt	
23	4120029	1	Pin	

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7.1 Camshafts

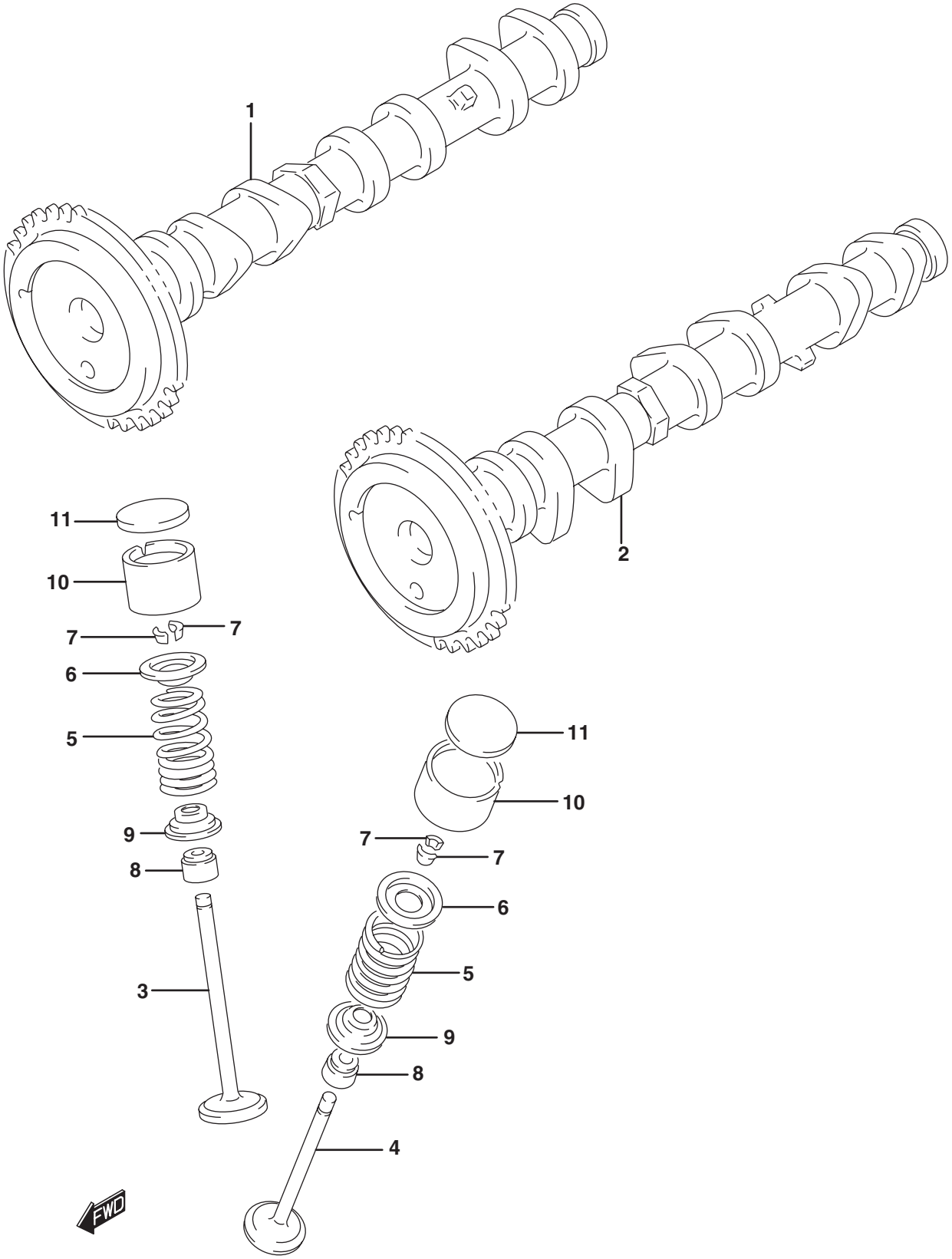
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148098	1	Camshaft, Intake	
2	4148099	1	Camshaft, Exhaust	
3	4120032	6	Valve, Intake	
4	4120033	6	Valve, Exhaust	
5	4120034	12	Spring, Valve	
6	4120035	12	Retainer, Spring	
7	2701970	24	Cotter, Valve	
8	2701972	12	Seal, Valve Stem Oil	
9	2701971	12	Seat, Spring	
10	4140965	12	Tappet	
11	4148102	AR	Shim, Tappet (T:2.18)	
11	4148103	AR	Shim, Tappet (T:2.20)	
11	4148104	AR	Shim, Tappet (T:2.22)	
11	4148105	AR	Shim, Tappet (T:2.24)	
11	4148106	AR	Shim, Tappet (T:2.26)	
11	4148107	AR	Shim, Tappet (T:2.28)	
11	4148108	AR	Shim, Tappet (T:2.30)	
11	4148109	AR	Shim, Tappet (T:2.32)	
11	4148110	AR	Shim, Tappet (T:2.34)	
11	4148111	AR	Shim, Tappet (T:2.36)	
11	4148112	AR	Shim, Tappet (T:2.38)	
11	4148113	AR	Shim, Tappet (T:2.40)	
11	4148114	AR	Shim, Tappet (T:2.42)	
11	4148115	AR	Shim, Tappet (T:2.44)	
11	4148116	AR	Shim, Tappet (T:2.46)	
11	4148117	AR	Shim, Tappet (T:2.48)	
11	4148118	AR	Shim, Tappet (T:2.50)	
11	4148119	AR	Shim, Tappet (T:2.52)	
11	4148120	AR	Shim, Tappet (T:2.54)	
11	4148121	AR	Shim, Tappet (T:2.56)	
11	4148122	AR	Shim, Tappet (T:2.58)	
11	4148123	AR	Shim, Tappet (T:2.60)	
11	4148124	AR	Shim, Tappet (T:2.62)	
11	4148125	AR	Shim, Tappet (T:2.64)	
11	4148126	AR	Shim, Tappet (T:2.66)	
11	4148127	AR	Shim, Tappet (T:2.68)	
11	4148128	AR	Shim, Tappet (T:2.70)	
11	4148129	AR	Shim, Tappet (T:2.72)	
11	4148130	AR	Shim, Tappet (T:2.74)	
11	4148131	AR	Shim, Tappet (T:2.76)	
11	4148132	AR	Shim, Tappet (T:2.78)	
11	4148133	AR	Shim, Tappet (T:2.80)	
11	4148134	AR	Shim, Tappet (T:2.82)	
11	4148135	AR	Shim, Tappet (T:2.84)	
11	4148136	AR	Shim, Tappet (T:2.86)	

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7.1 Camshafts (Continued)

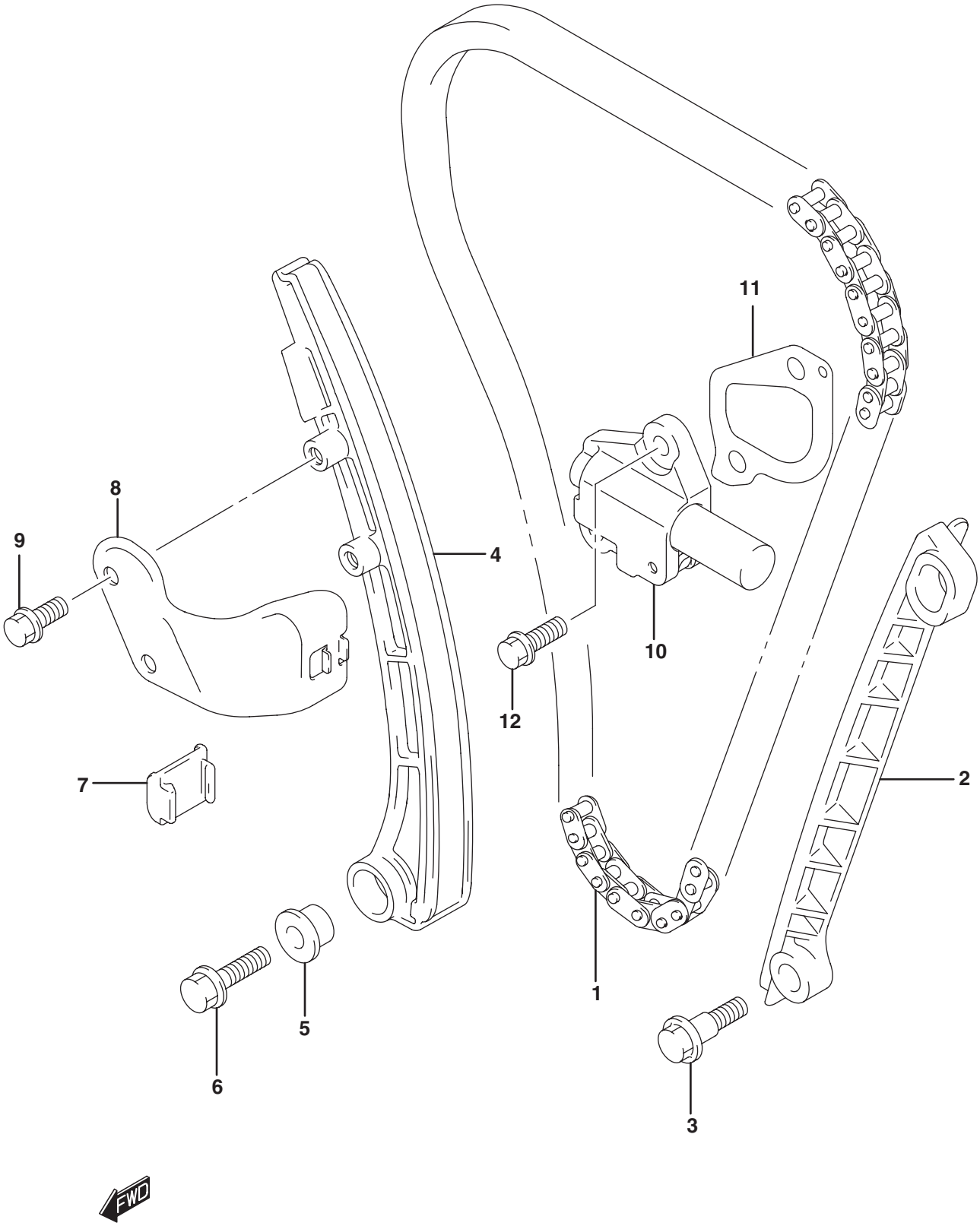


Item	Part No.	Qty.	Description	Serial Numbers/Notes
11	4148137	AR	Shim, Tappet (T:2.88)	
11	4148138	AR	Shim, Tappet (T:2.90)	
11	4148139	AR	Shim, Tappet (T:2.92)	
11	4148140	AR	Shim, Tappet (T:2.94)	
11	4148141	AR	Shim, Tappet (T:2.96)	
11	4148142	AR	Shim, Tappet (T:2.98)	
11	4148143	AR	Shim, Tappet (T:3.00)	

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8.1 Cam Chain

Serial No. All

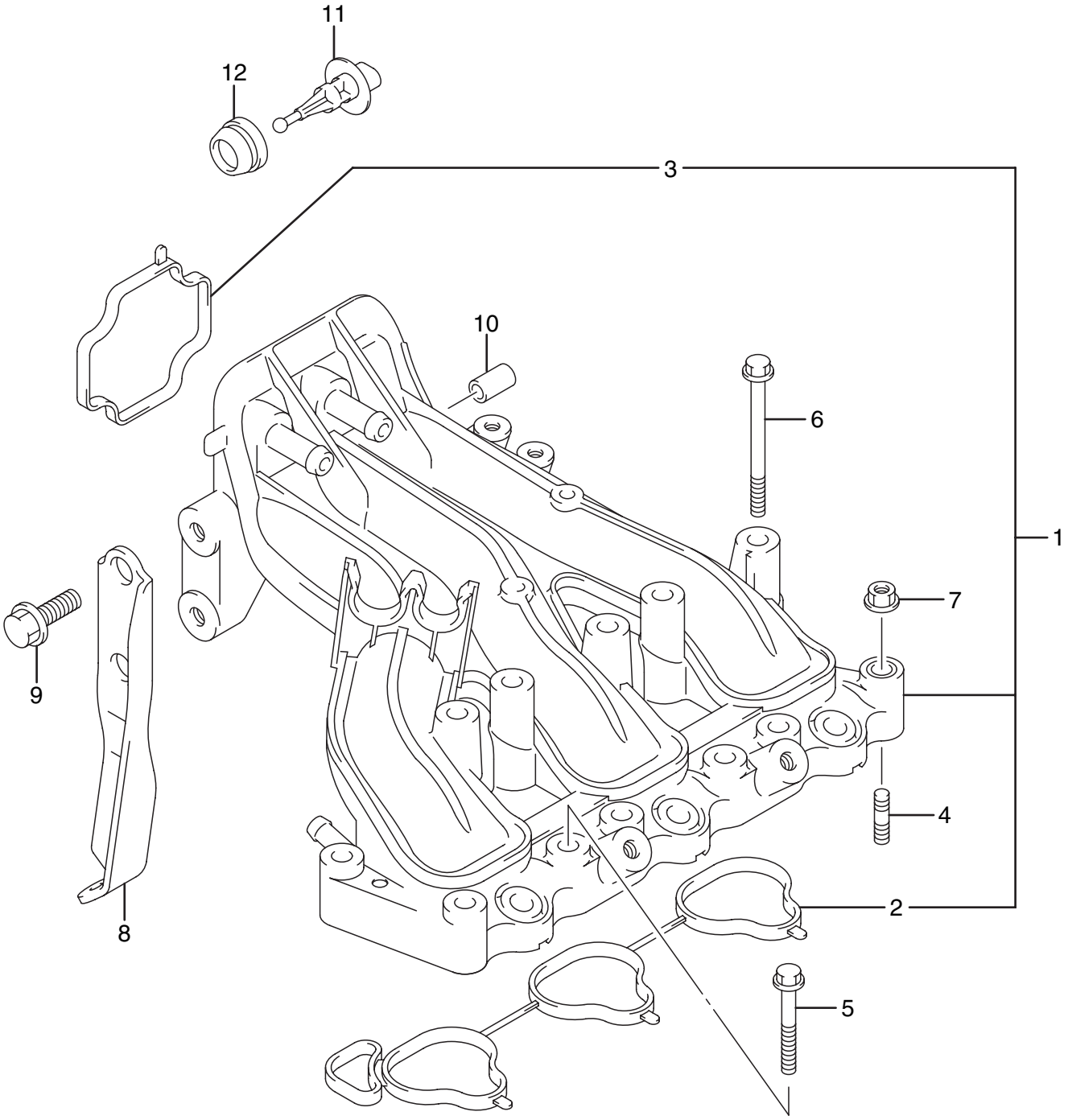


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4120037	1	Chain, Timing	
2	4120038	1	Guide, Chain	
3	4120039	2	Bolt	
4	4148100	1	Tensioner, Chain	
5	4120041	1	Spacer	
6	2702469	1	Bolt	
7	4120042	1	Pad, Tensioner	
8	4148101	1	Link, Tensioner	
9	2702486	2	Bolt	
10	4140970	1	Adjuster Assy, Tensioner	
11	4140893	1	Gasket	
12	2701834	2	Bolt	

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9.1 Intake Manifold & Throttle Body

Serial No. All

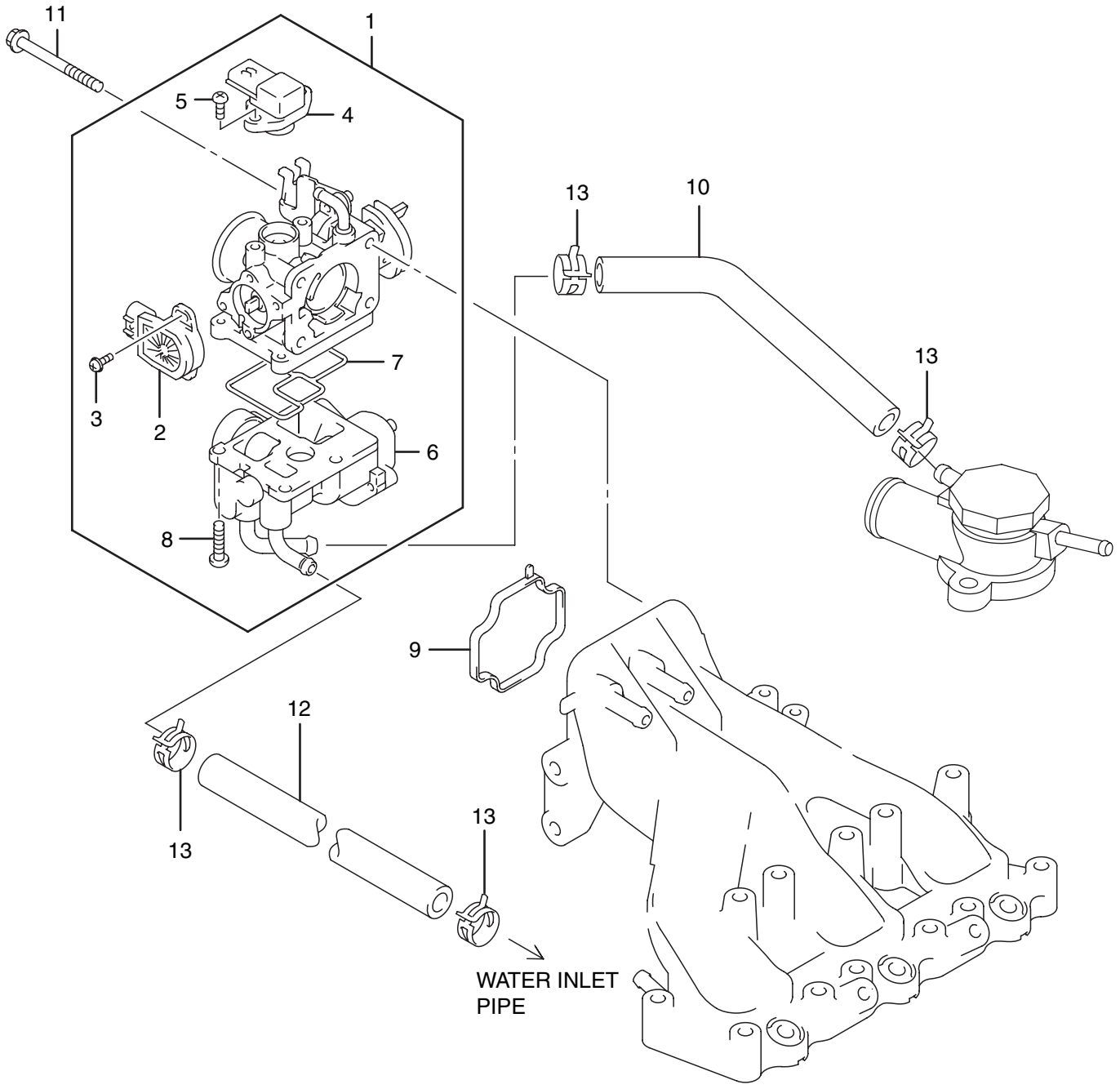


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148144	1	Intake Manifold	
2	4148145	1	• Gasket, Intake Manifold	
3	4148148	1	• Gasket, Throttle Body	
4	4148057	3	Stud Bolt, Intake Manifold	
5	2702520	4	Bolt, Intake Manifold	
6	4141031	5	Bolt, Intake Manifold	
7	2701914	3	Nut	
8	4148146	1	Stiffener, Intake Manifold	
9	2702475	3	Bolt	
10	2702431	1	Plug	
11	4140618	1	Sensor, Air Temp	
12	4140617	1	Grommet	

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10.1 Throttle Body

Serial No. All

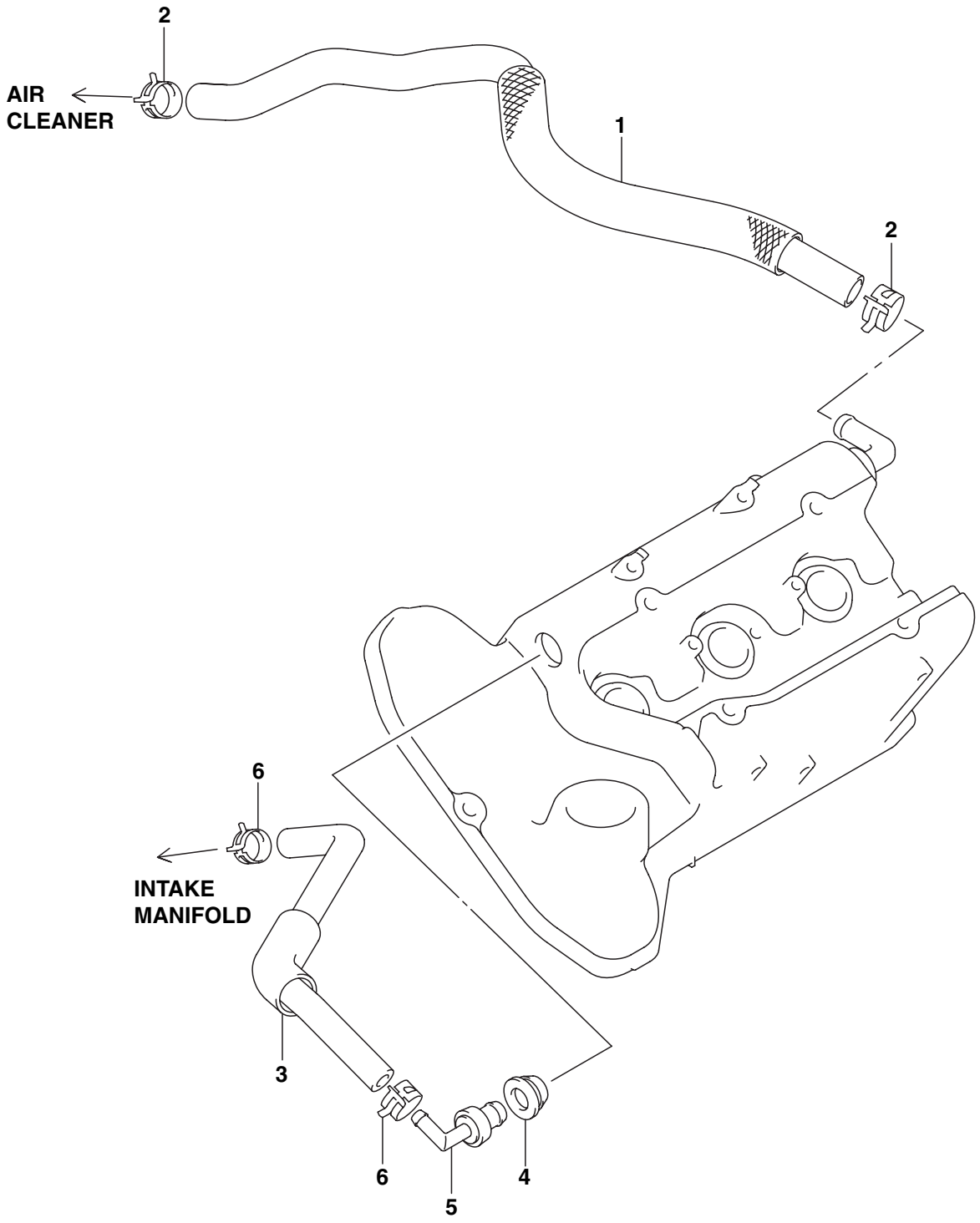


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148147	1	Throttle Body Assembly	
2	2701995	1	• Sensor, Throttle Position	
3	2701996	2	• Screw (4 x 12)	
4	4148211	1	• Sensor, Pressure	
5	2701998	2	• Screw (5 x 14)	
6	4148208	1	• Valve, ISC	
7	2702000	1	• Gasket, ISC Valve	
8	2701998	4	• Screw (5 x 14)	
9	4148148	1	Gasket	
10	4148149	1	Hose, Water Inlet	
11	2702001	4	Bolt	
12	7167	1	Hose,	
13	2702429	4	Clip	

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11.1 Breather Hose

Serial No. All

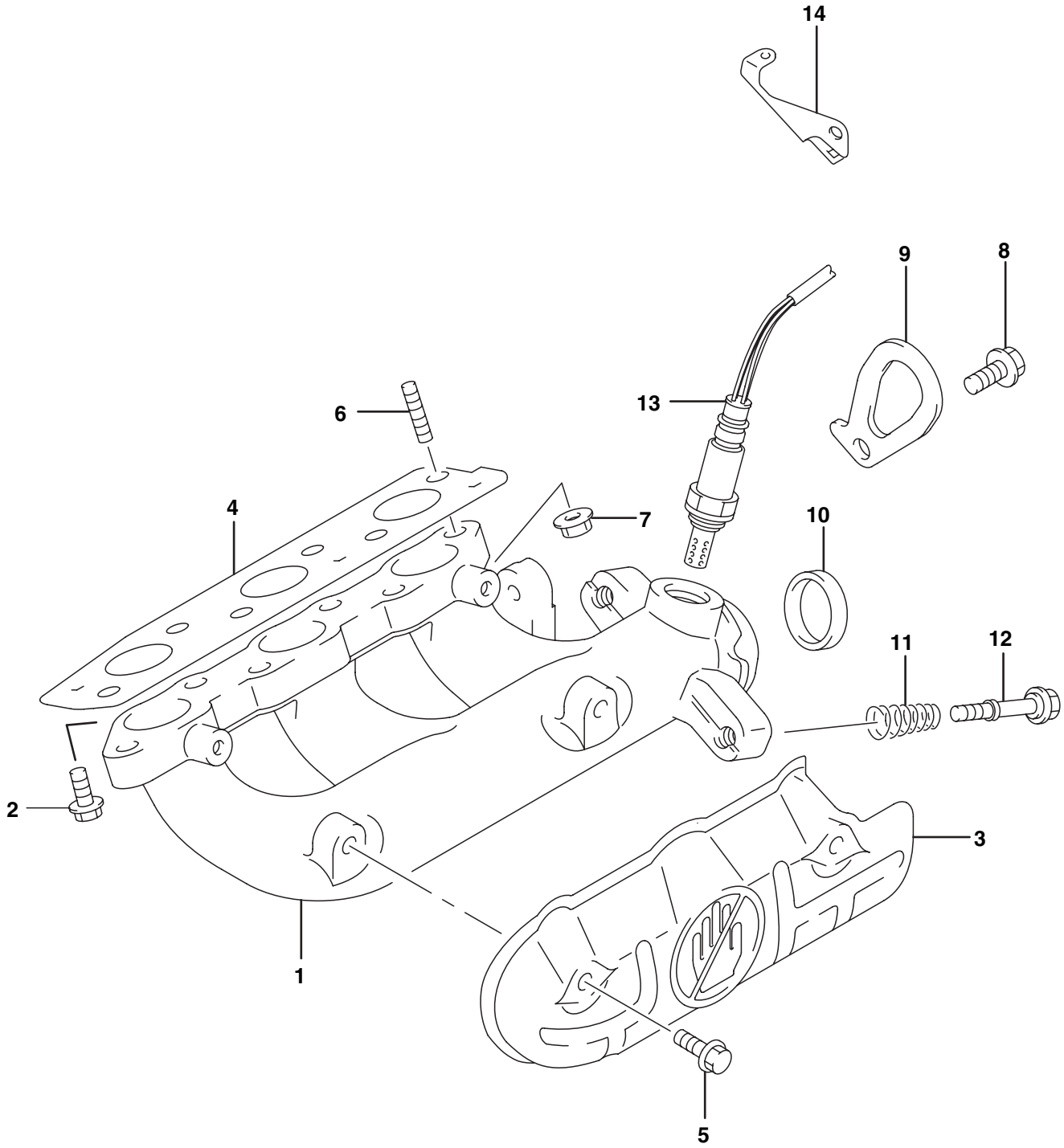


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148090	1	Hose, Breather	
2	2702484	2	Clip	
3	4148091	1	Hose, Pcv	
4	2702489	1	Seal, Pcv Valve	
5	4120056	1	Valve, Pcv	
6	2702491	2	Clip	

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12.1 Exhaust Manifold

Serial No. All

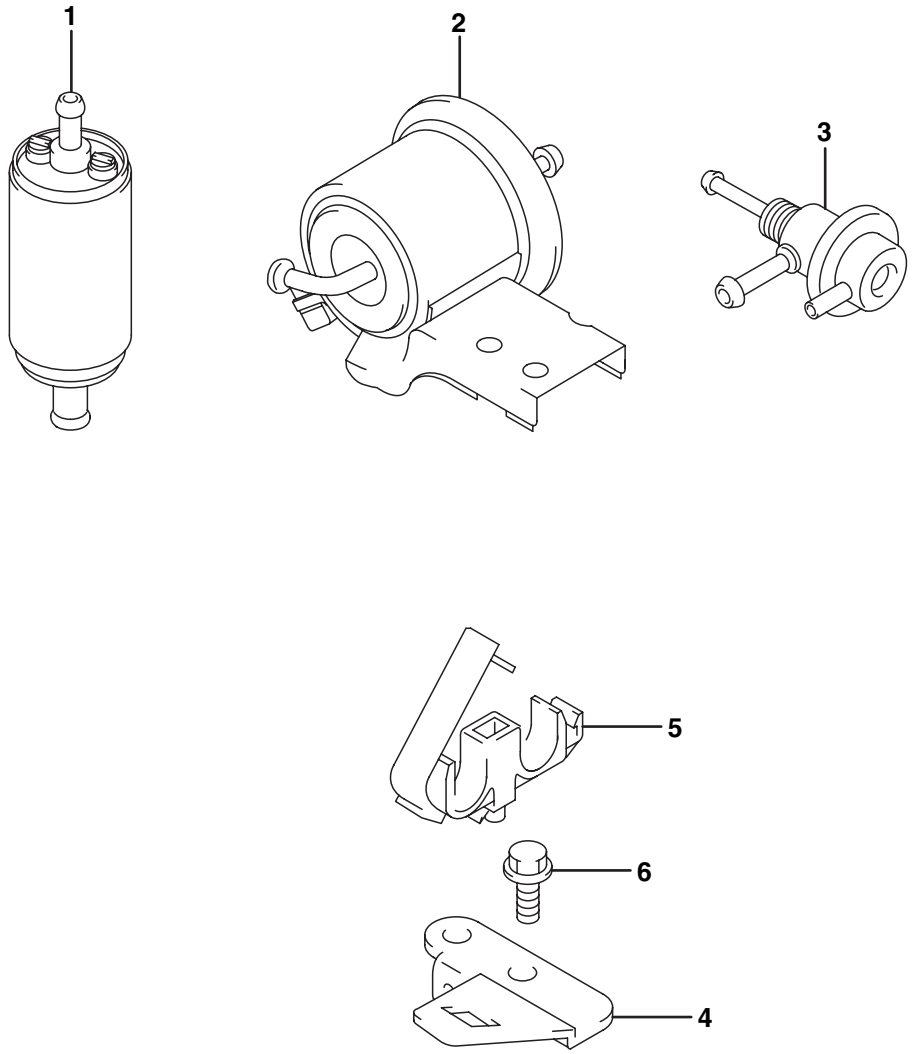


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148151	1	Manifold, Exhaust	
2	2702469	2	Bolt	
3	4148152	1	Cover, Exh Manf Upper	
4	4140981	1	Gasket	
5	4148061	8	Bolt (6x10)	
6	4120063	4	Stud Bolt	
7	2703002	4	Nut	
8	2702475	1	Bolt	
9	2702759	1	Hook, Engine	
10	4148153	1	Ring, Seal Exh Pipe	
11	2702501	2	Spring, Exh Pipe	
12	2702502	2	Bolt (10x65)	
13	4148209	1	Sensor, Oxygen	
14	4148210	1	Bracket	

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13.1 Fuel Components

Serial No. All

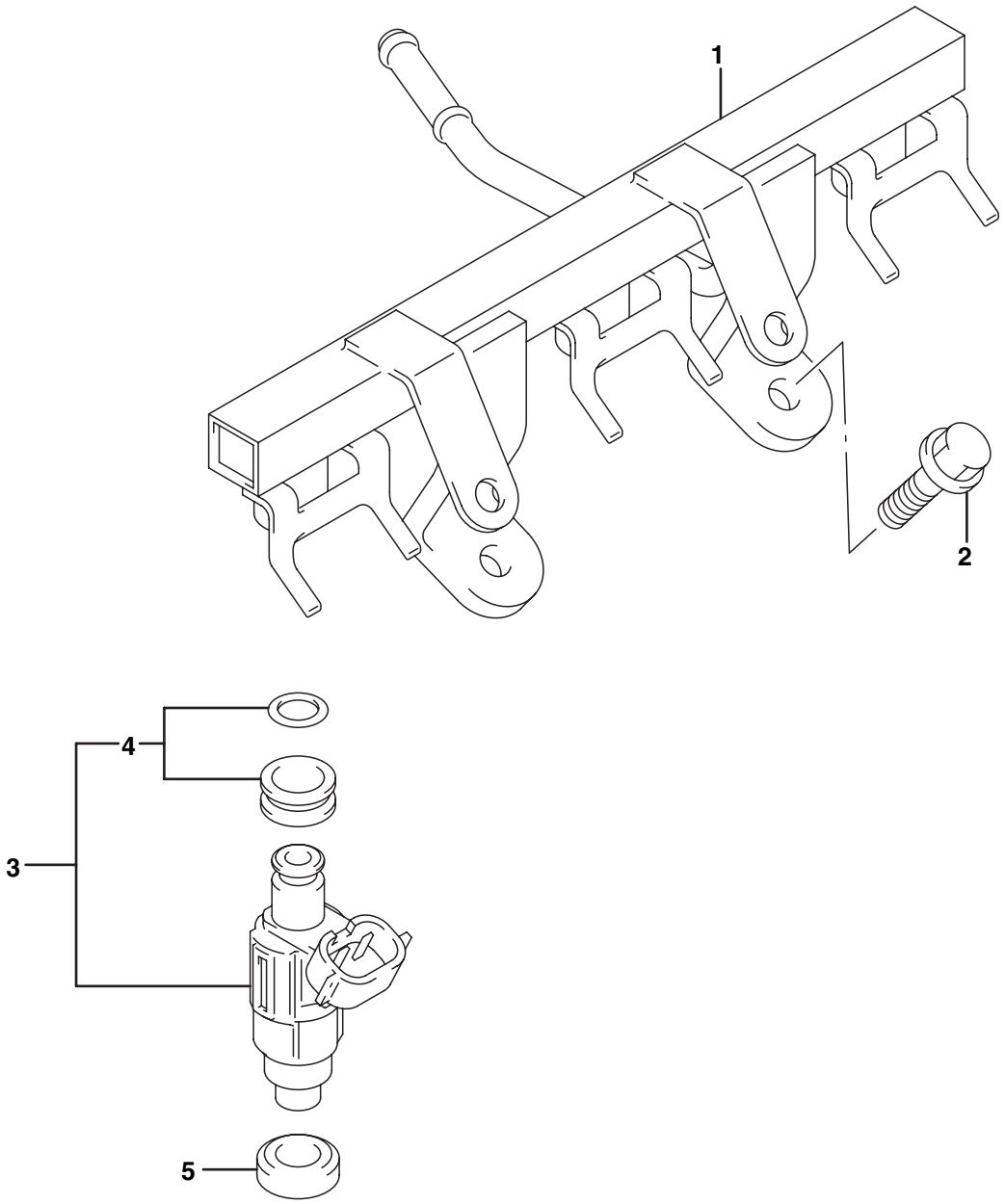


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2701897	1	Pump Assy, Fuel	
2	2701898	1	Filter, Fuel	
3	2701899	1	Regulator Assy, Fuel Pressure	
4	4148198	1	Bracket, Fuel and Breather Hose	
5	4148199	1	Clamp	
6	2702486	2	Bolt	

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14.1 Fuel Rail

Serial No. All

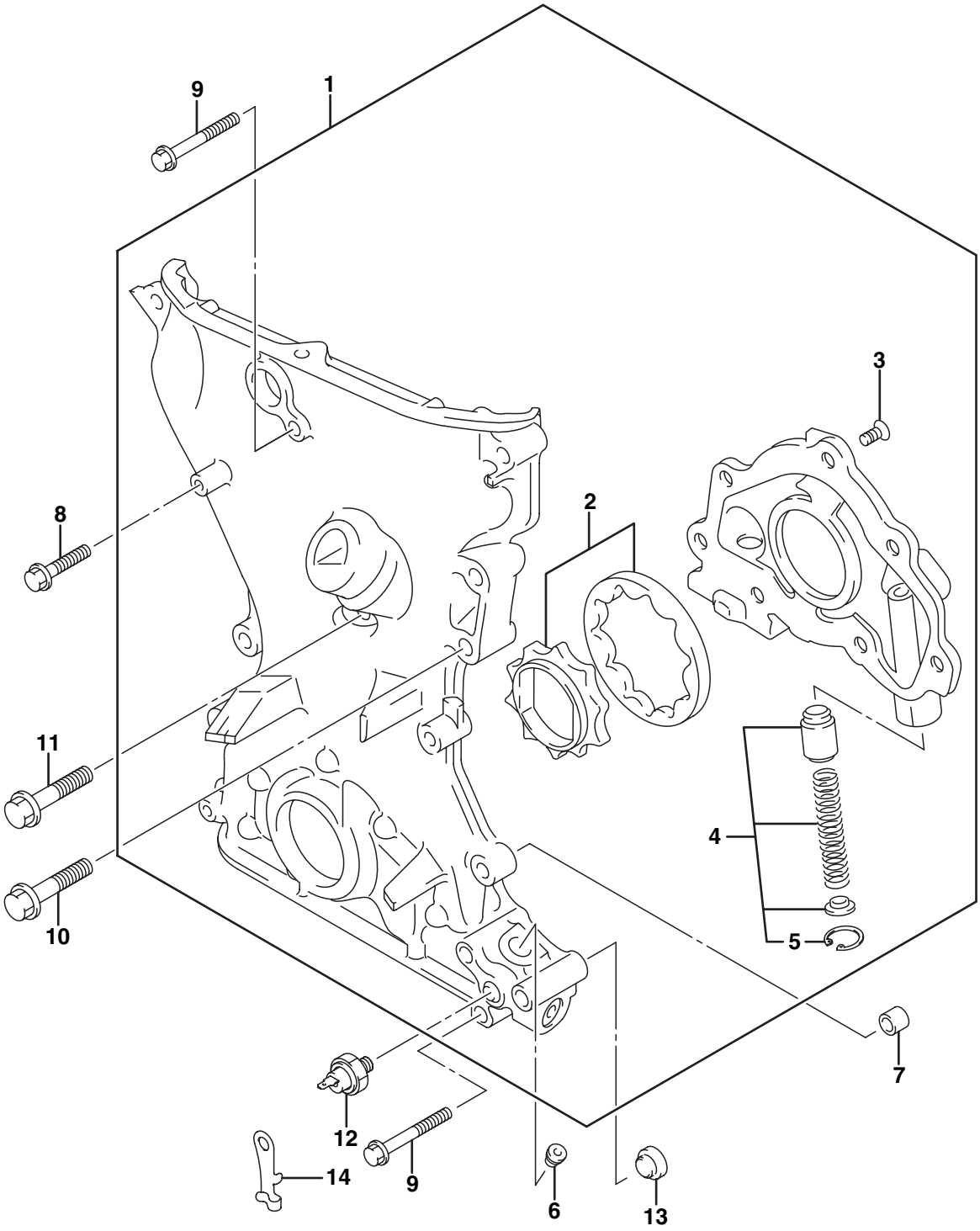


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148197	1	Pipe, Delivery	
2	2701978	1	Bolt	
3	4140986	3	Injector Assy, Fuel	
4	2702512	3	• Grommet Set	
5	2702513	3	Cushion	

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15.1 Oil Pump

Serial No. All

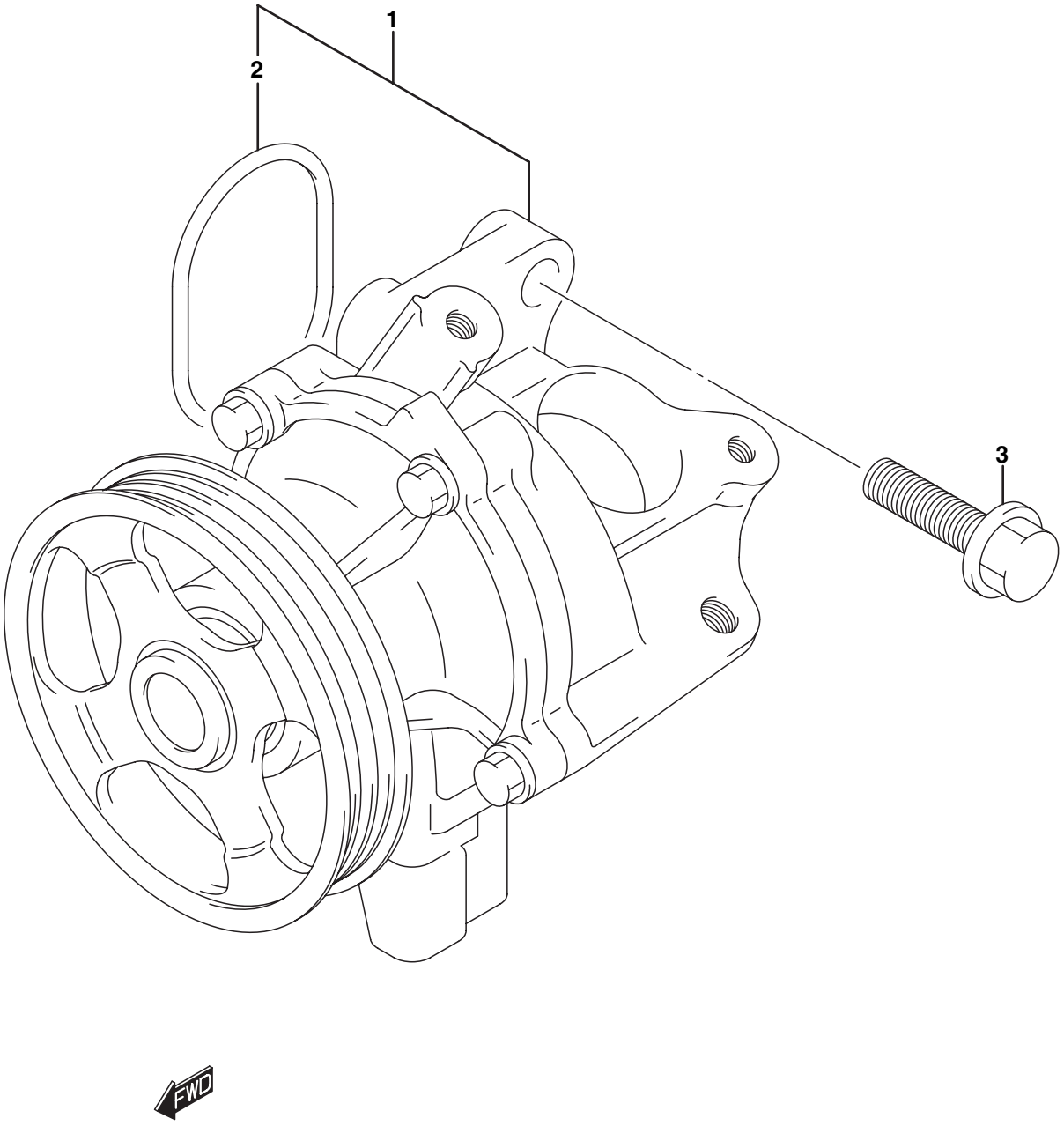


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148200	1	Pump Assy, Oil	
2	4148201	1	• Rotor Set	
3	2702517	7	• Screw	
4	4120070	1	• Valve Set	
5	08331-41156	1	• • Circlip	
6	2701820	1	Plug	
7	2701949	2	Pin	
8	2702519	6	Bolt	
9	2702001	4	Bolt	
10	2702659	5	Bolt	
11	4140988	1	Bolt (8x40)	
12	4140989	1	Switch Assy, Oil Pressure	
13	4140990	1	Filter, Oil Gallery	
14	4120117	1	Clamp	

> Change from previous revision

16.1 Water Pump

Serial No. All

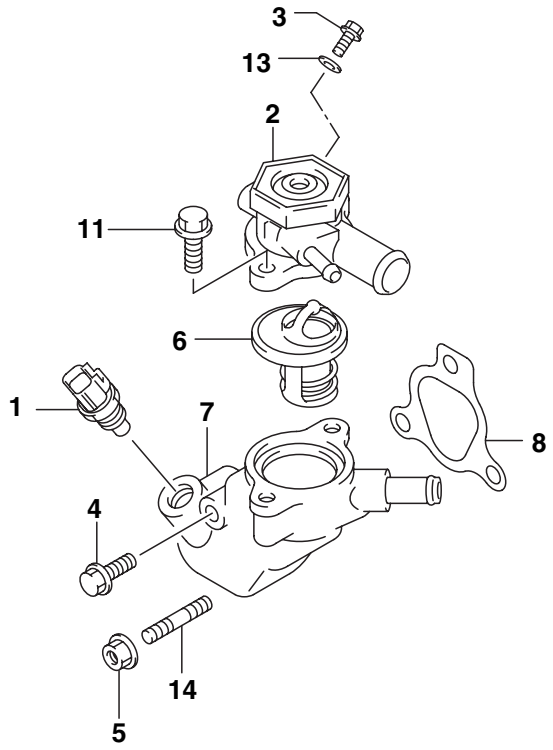


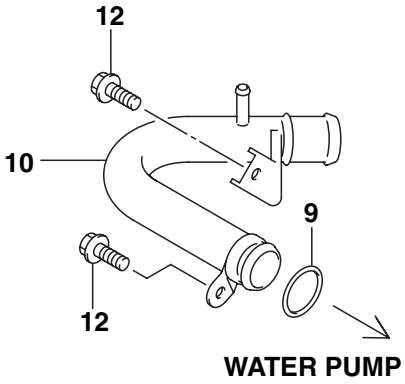
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148204	1	Pump Set, Water	
2	4119965	1	• O Ring	
3	2702470	4	Bolt	

> Change from previous revision

17.1 Cooling Tubes

Serial No. All



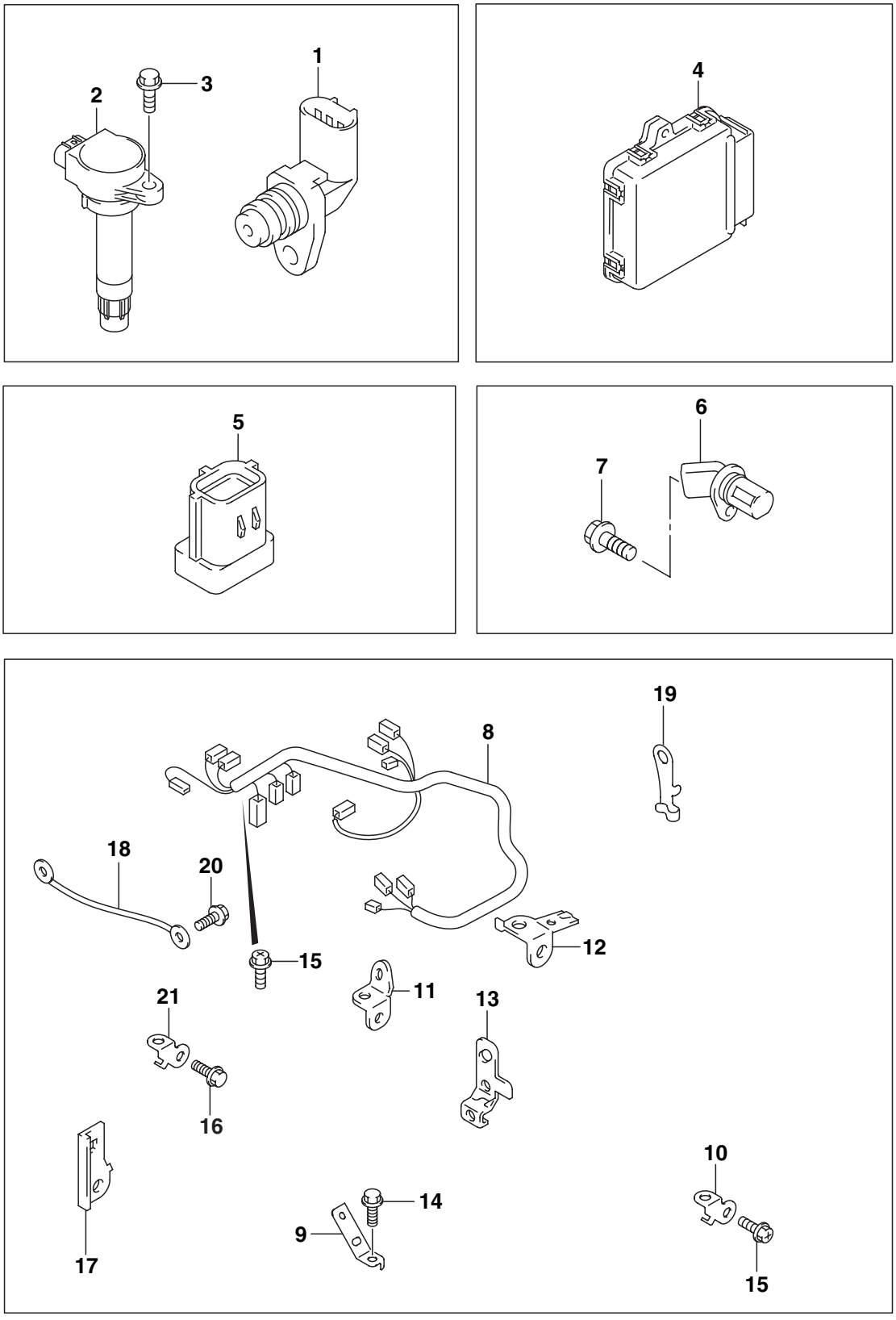


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148150	1	Cap, Water Thermostat	
2	4120076	1	Cap, Water Outlet	
3	2702540	1	Union, Air Vent	
4	4140992	1	Bolt	
5	2703002	2	Nut	
6	4148206	1	Thermostat, Water	
7	4148207	1	Case, Thermostat	
8	4119967	1	Gasket	
9	4119609	1	O Ring, Water Inlet Pipe	
10	4120081	1	Pipe, Water Inlet	
11	2702469	2	Bolt	
12	2702486	2	Bolt	
13	2702541	1	Gasket	
14	4148058	2	Stud Bolt	

> Change from previous revision

18.1 Engine Electrical

Serial No. All

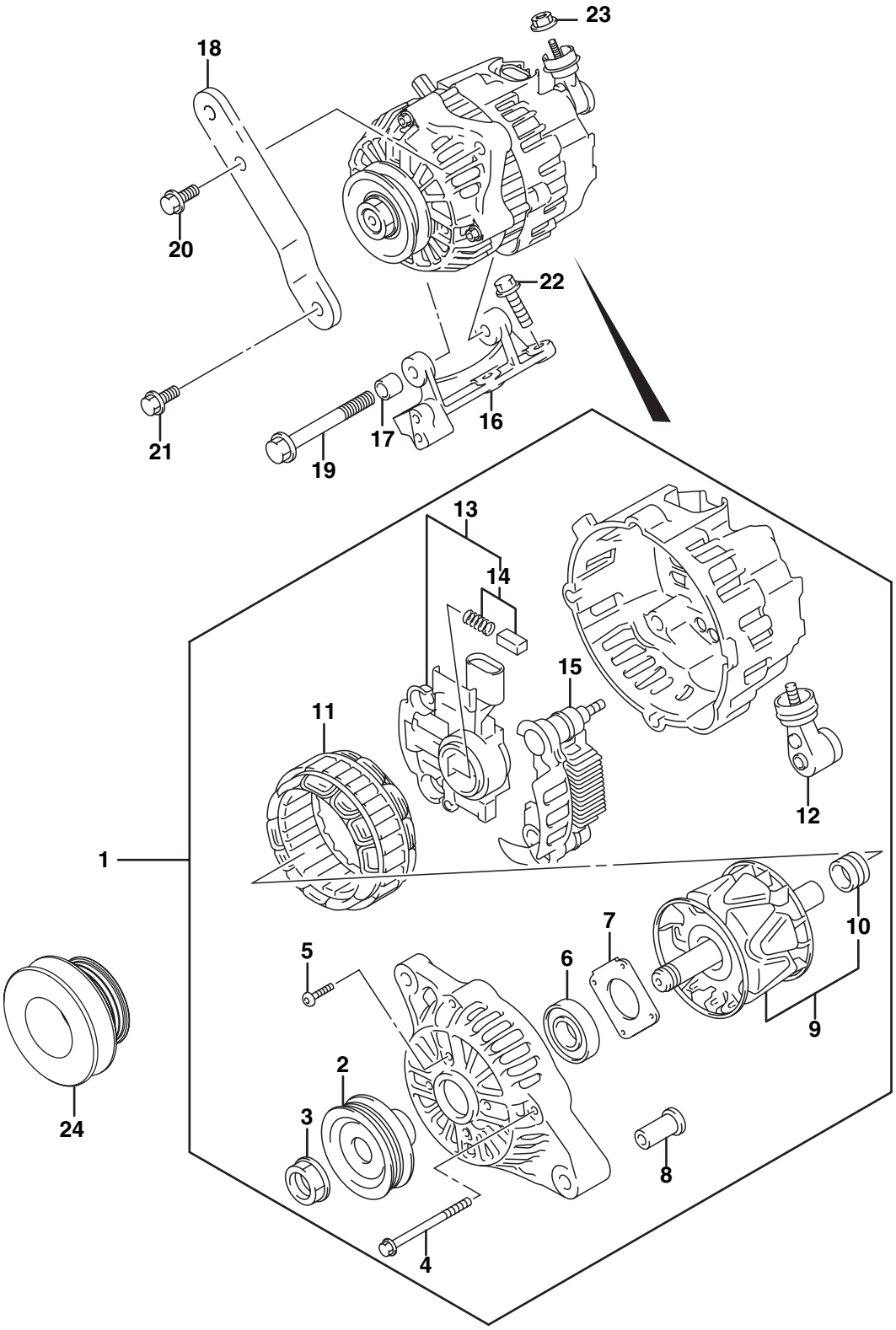


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148382	1	Sensor Assy, Cam Position	
2	4148383	3	Coil Assy, Ignition (Denso)	
2	4148384	3	Coil Assy, Ignition (Mitsubishi)	
3	4140993	3	Bolt	
4	4147117	1	Controller, Fuel Injection	Manual Transmission
4	4147118	1	Controller, Fuel Injection	Automatic Transmission
5	2702918	1	Resistor, Ignition (0 Ohm) (Mark 1)	
5	2702919	1	Resistor, Ignition (82 Ohm) (Mark 2)	
5	2702920	1	Resistor, Ignition (160 Ohm) (Mark 3)	
5	2702921	1	Resistor, Ignition (270 Ohm) (Mark 4)	
5	2702922	1	Resistor, Ignition (430 Ohm) (Mark 5)	
5	2702923	1	Resistor, Ignition (680 Ohm) (Mark N)	Order Resistor to match number printed on Valve Cover
5	2702924	1	Resistor, Ignition (1k Ohm) (Mark 6)	
5	2702925	1	Resistor, Ignition (1.5k Ohm) (Mark 7)	
5	2702926	1	Resistor, Ignition (2.2k Ohm) (Mark 8)	
5	2702927	1	Resistor, Ignition (3.6k Ohm) (Mark 9)	
5	2702928	1	Resistor, Ignition (6.2k Ohm) (Mark 10)	
5	2702929	1	Resistor, Ignition (12k Ohm) (Mark 11)	
6	4148386	1	Sensor Assy, Speed	Manual Transmission
6	4120014	1	Sensor Assy, Speed	Automatic Transmission
7	2701978	1	Bolt	Manual Transmission
7	2702764	1	Bolt	Automatic Transmission
8	4148387	1	Harness Assy, Engine	Manual Transmission
8	4148388	1	Harness Assy, Engine	Automatic Transmission
9	4148389	1	Bracket, Engine Harness	
10	4148390	1	Bracket, Engine Harness	
11	4140999	1	Bracket, Engine Harness/connector	
12	4141000	1	Bracket, Harness	
13	4141002	1	Bracket, Engine Harness	
14	2702486	2	Bolt, Bracket	
15	2702486	1	Bolt, Ground	
16	2702486	1	Bolt	
17	2702953	1	Bracket, Harness	
18	4148385	1	Cable, Battery Ground No.2	
19	4120117	1	Clamp, Harness	
20	2702486	1	Bolt	
21	4148389	1	Bracket, Harness	Automatic Transmissions Only

> Change from previous revision

19.1 Alternator

Serial No. All

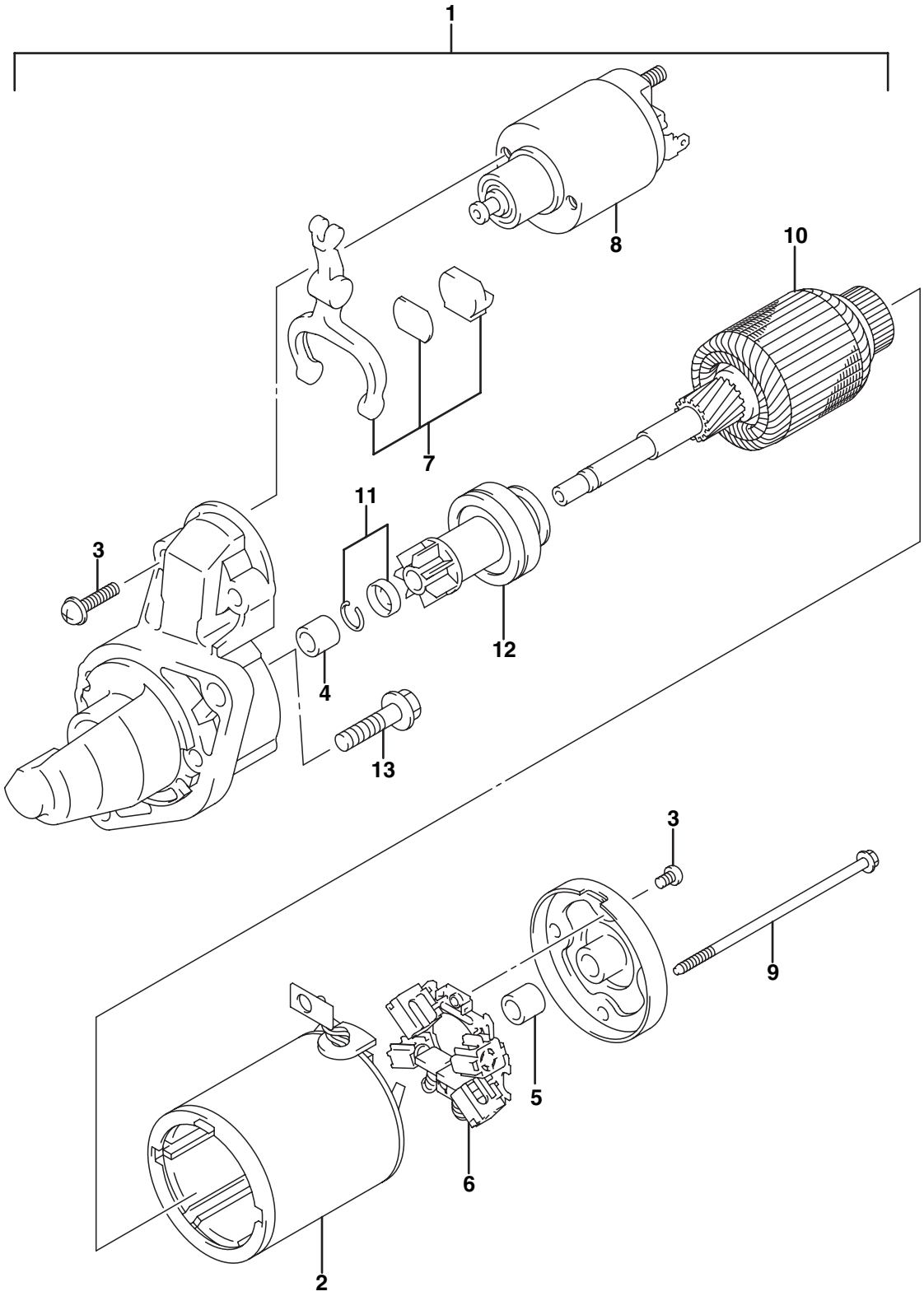


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148374	1	Generator Assy	
2	Not Used	1	• Pulley	Order Item 27
3	4119618	1	• Nut, Pulley	
4	4119617	1	• Screw Set	
5	4120121	1	• Screw	
6	4120122	1	• Bearing	
7	4120123	1	• Retainer, Bearing	
8	4120124	1	• Bush	
9	4148379	1	• Rotor Assy	
10	4119615	1	• • Bearing, Rear	
11	4148375	1	• Stator Assy	
12	4148376	1	• Terminal Set	
13	4148381	1	• Regulator Assy	
14	4119616	1	• • Brush	
15	4148377	1	• Rectifier Assy	
16	4141006	1	Bracket, Generator	
17	4141007	1	Bush, Generator Mounting	
18	4120130	1	Arm, Generator	
19	4148059	1	Bolt	
20	2702469	1	Bolt	
21	2702469	1	Bolt	
22	2702469	3	Bolt, Generator Brkt	
23	2701914	1	Nut	
24	4115778	1	Pulley, Alternator	Order this pulley for use with Cushman Turf Trucksters, Spraytek DS175 and Haulsters. Do not use the pulley included with Alternator

> Change from previous revision

20.1 Manual Transmission Starter

Serial No. All

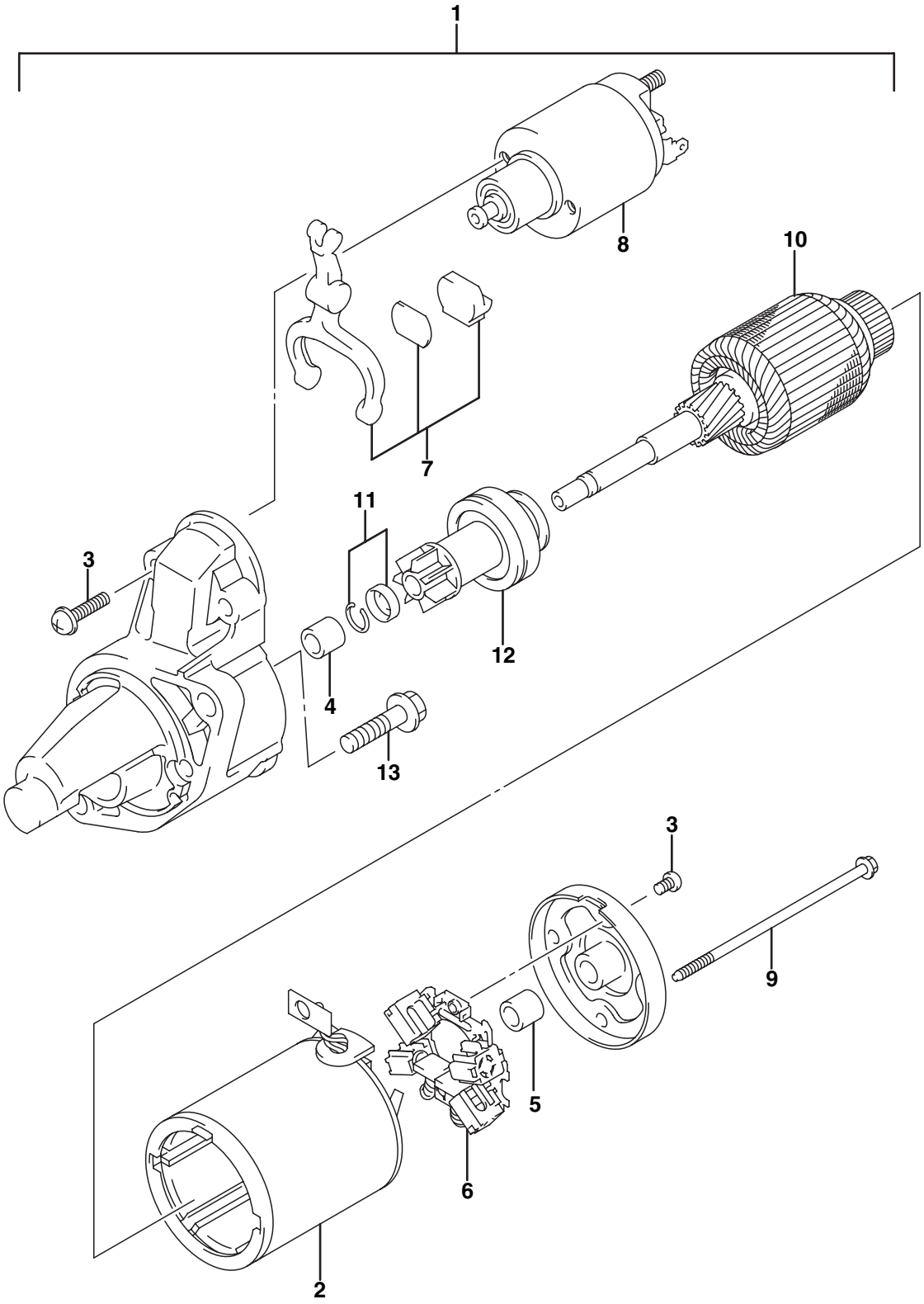


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148360	1	Motor Assy, Starting	
2	4148362	1	• Yoke Assy	
3	2702895	1	• Screw Assy	
4	4148364	1	• Bush	
5	4148365	1	• Bearing	
6	4148366	1	• Holder Assy, Brush	
7	4148367	1	• Lever Assy	
8	4148368	1	• Switch Assy	
9	4148369	2	• Bolt	
10	4148370	1	• Armature	
11	4148371	1	• Stopper Set	
12	4148372	1	• Clutch Assy	
13	2702470	2	Bolt	

> Change from previous revision

21.1 Automatic Transmission Starter

Serial No. All



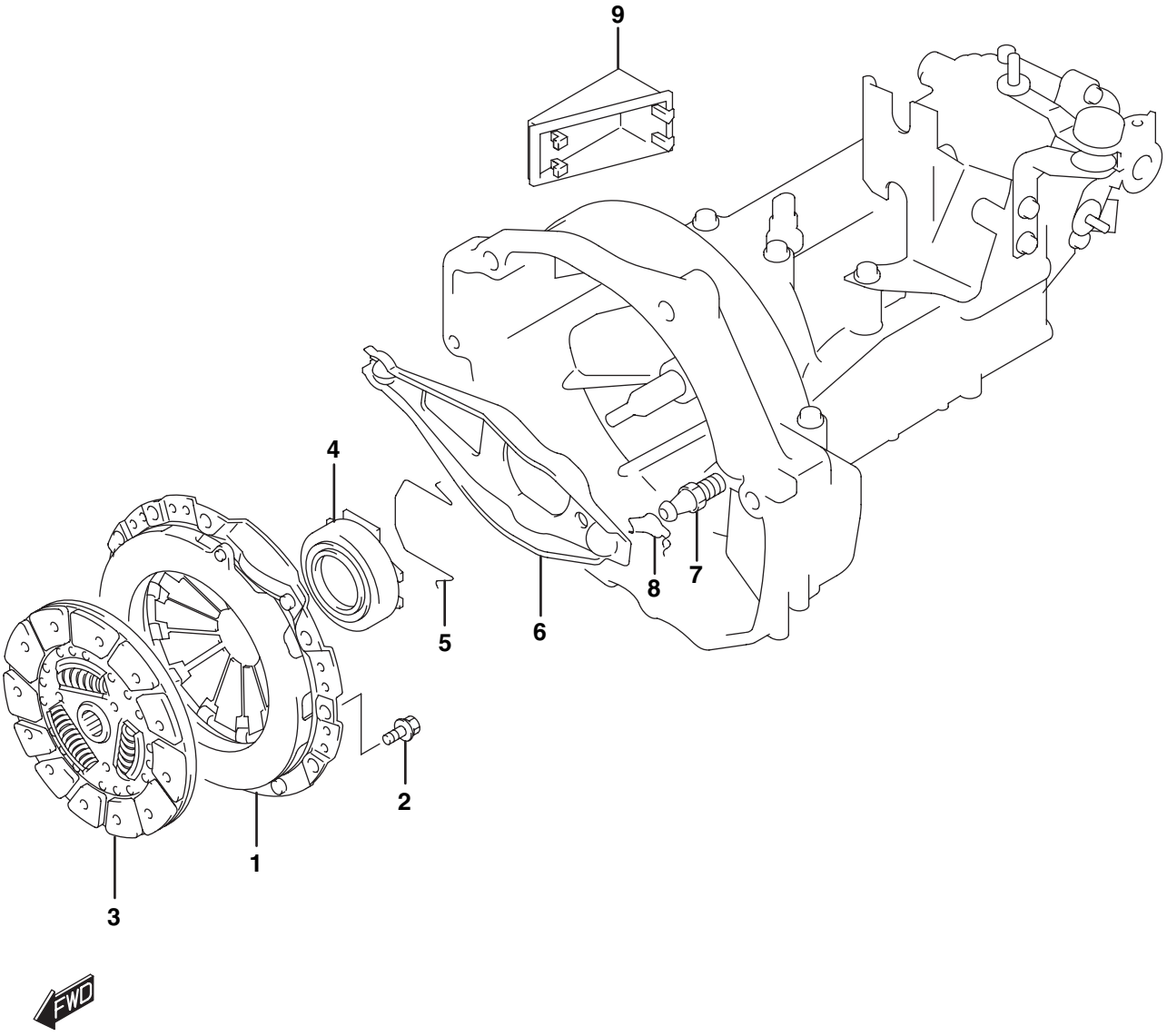
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148361	1	Motor Assy, Starting	
2	4148363	1	• Yoke Assy	
3	2702895	1	• Screw Assy	
4	4148364	1	• Bush	
5	4148365	1	• Bearing	
6	4148366	1	• Holder Assy, Brush	
7	4148367	1	• Lever Assy	
8	4148368	1	• Switch Assy	
9	4148369	2	• Bolt	
10	4148370	1	• Armature	
11	4148371	1	• Stopper Set	
12	4148372	1	• Clutch Assy	
13	2702470	2	Bolt	

> Change from previous revision

22.1 Clutch

Serial No. All

Manual Transmission



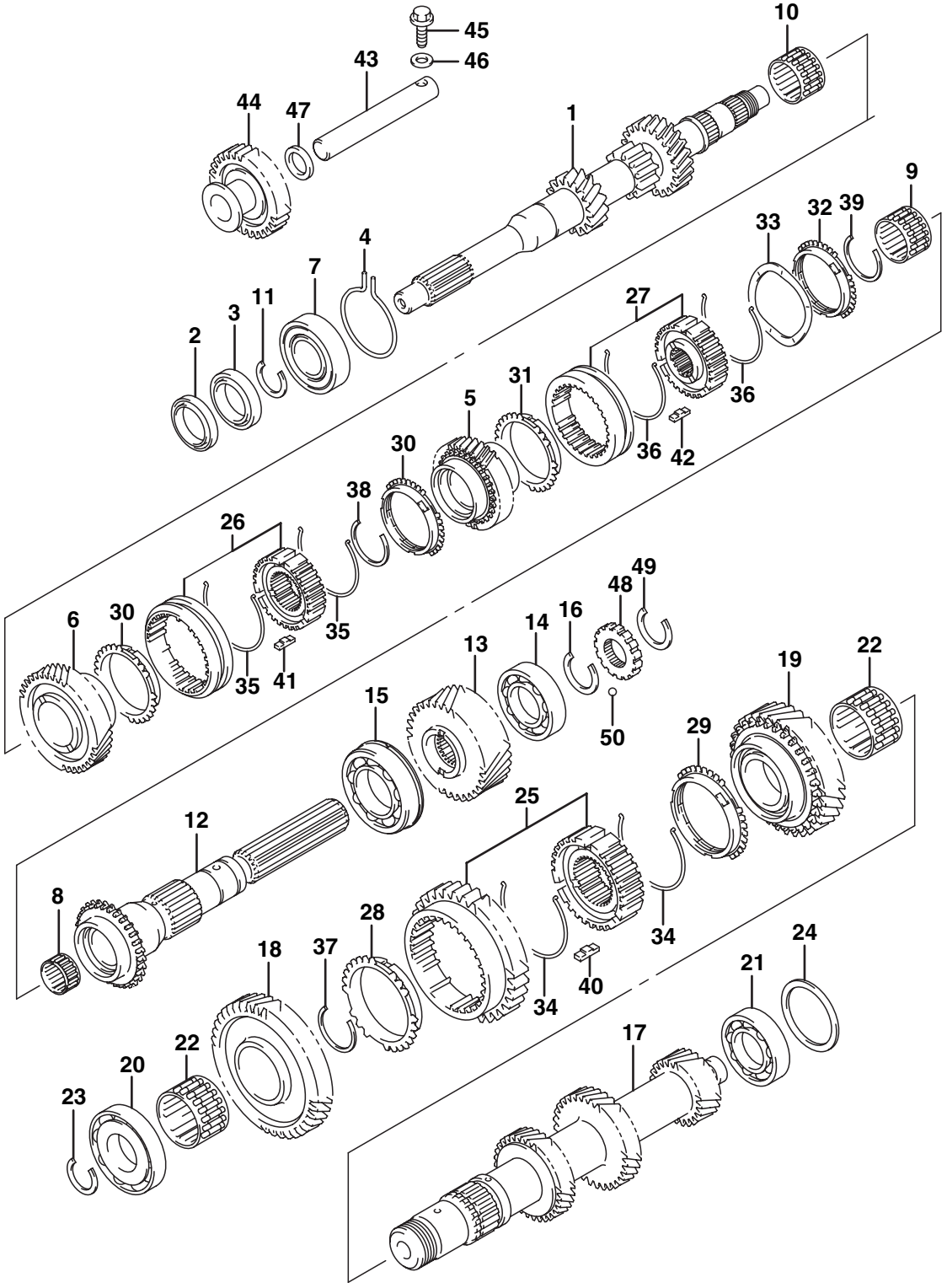
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4117900	1	Cover Assy, Clutch	
2	2702547	6	Bolt,(8x16)	
3	2702548	1	Disc, Clutch	
4	2702549	1	Bearing, Clutch Release	
5	2702550	1	Clip, Clutch Release Brg	
6	4148214	1	Fork, Clutch Release	
7	2702552	1	Support, Clutch Release Fork	
8	2702553	1	Clip, Clutch Release Fork	
9	2702554	1	Cap, T/M Front Case	

> Change from previous revision

23.1 Gear Shafts

Serial No. All

Manual Transmission

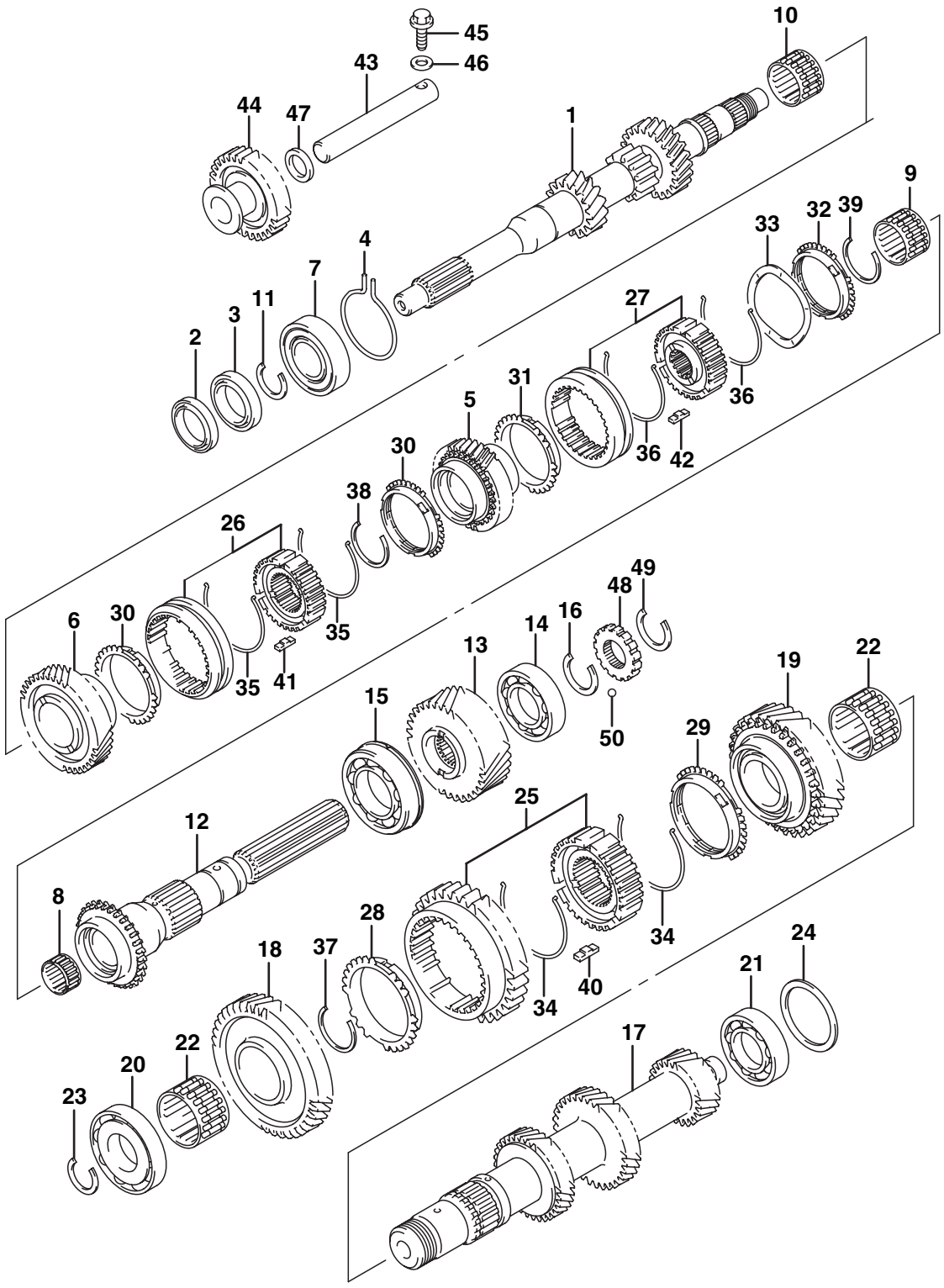


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148215	1	Shaft, Transmission Input	
2	4148083	1	Seal, Oil	
3	4148219	1	Seal, Pump	
4	4148222	1	Ring, Input Shaft Brg Snap	
5	4148223	1	Gear, Input Shaft 3rd	
6	4148224	1	Gear, Input Shaft 4th	
7	4148076	1	Bearing (25x52x15)	
8	4148079	1	Bearing (15x20x15.8)	
9	4148080	1	Bearing (25x30x23.8)	
10	4148080	1	Bearing (25x30x23.8)	
11	2702559	1	Circlip	
12	4148216	1	Shaft, T/m Output	
13	4148217	1	Gear, T/m Output Shaft	
14	4148077	1	Bearing (25x52x15)	
15	4148078	1	Bearing (35x62x14)	
16	2702559	1	Circlip	
17	4148218	1	Shaft, Transmission Counter	
18	4148225	1	Gear, Counter Shaft 1st	
19	4148226	1	Gear, Counter Shaft 2nd	
20	4148075	1	Bearing (25x55x10)	
21	4148074	1	Bearing (20x52x15)	
22	4148081	2	Bearing (30x35x24.8)	
23	2702559	1	Circlip	
24	4148227	AR	Shim, Countershaft Rr Brg (T1.00)	
24	4148228	AR	Shim, Countershaft Rr Brg (T1.10)	
24	4148229	AR	Shim, Countershaft Rr Brg (T1.20)	
24	4148230	AR	Shim, Countershaft Rr Brg (T1.30)	
24	4148231	AR	Shim, Countershaft Rr Brg (T1.40)	
24	4148232	AR	Shim, Countershaft Rr Brg (T1.50)	
24	4148233	AR	Shim, Countershaft Rr Brg (T1.60)	
24	4148234	AR	Shim, Countershaft Rr Brg (T1.70)	
24	4148235	AR	Shim, Countershaft Rr Brg (T1.80)	
25	4148236	1	Hub Assy, Low Speed Sync	
26	4148237	1	Hub Assy, High Speed Sync	
27	4148238	1	Hub Assy, 5th Speed Sync	
28	4148239	1	Ring, Low Gear Synchronizer	
29	2702602	1	Ring, 2nd Gear Sync	
30	4148240	2	Ring, High Speed Sync	
31	4148241	1	Ring, 5th Speed Sync	
32	4148242	1	Ring, 5th Speed Sync	
33	4148243	1	Spring, Sync Ring 5th	
34	2702603	2	Spring, Low Speed Sync	
35	4148244	2	Spring, High Speed Sync	
36	4148245	2	Spring, 5th Speed Sync	
37	2702598	1	Circlip, Low Speed Sync Hub	

> Change from previous revision

23.1 Gear Shafts (Continued)

Manual Transmission



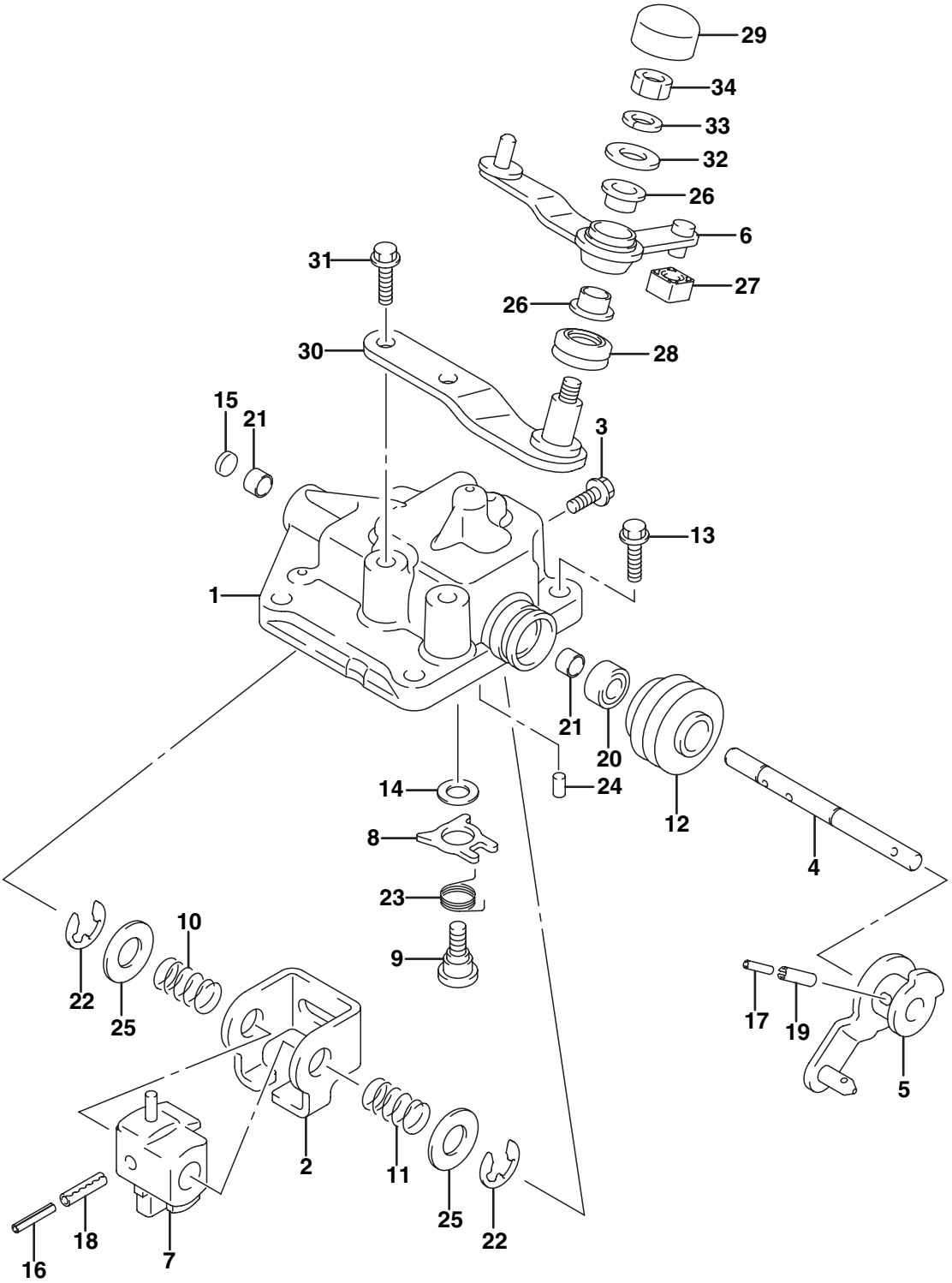
Item	Part No.	Qty.	Description	Serial Numbers/Notes
38	2702604	1	Circlip, High Speed Sync Hub	
39	2702581	1	Circlip, 5th Speed Sync Hub	
40	4148246	3	Key, Low Speed Sync	
41	2702600	3	Key, High Speed Sync	
42	4148247	3	Key, 5th Speed Sync	
43	4148248	1	Shaft, T/m Rev Gear	
44	4148249	1	Gear, Reverse Idler	
45	4148250	1	Bolt, Reverse Shaft	
46	4148067	1	Washer (16x24x3)	
47	4148068	1	Gasket (8.2x14x1)	
48	4148357	1	Ring, Speedometer Exciter	
49	2702559	1	Circlip	
50	4148060	1	Ball	

> Change from previous revision

24.1 Shift Linkage

Serial No. All

Manual Transmission



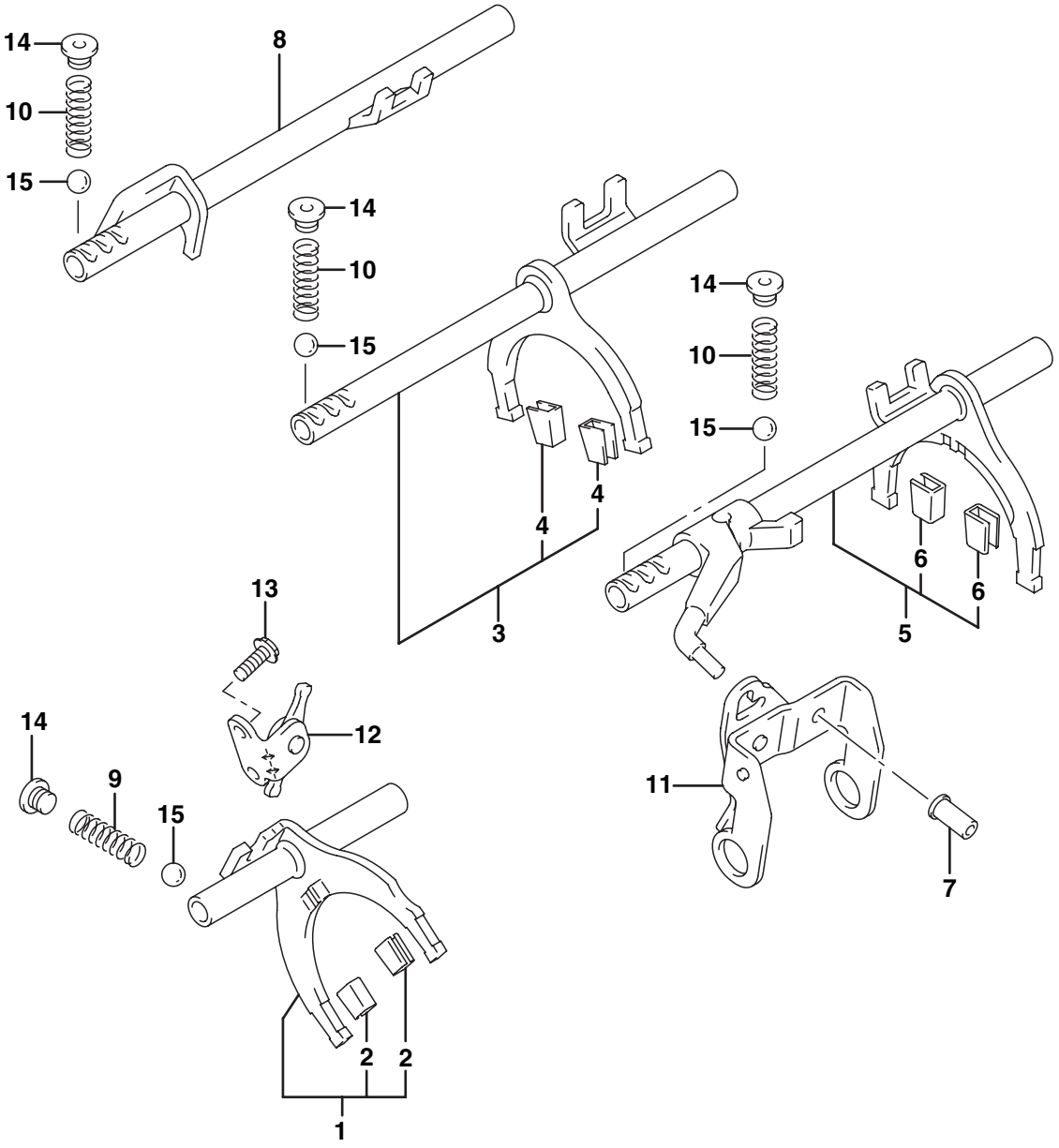
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148259	1	Case, Gr Shf Lever	
2	4148265	1	Plate, Gear Shift Interlock	
3	4120092	1	Bolt, Gear Shift Stop	
4	4148274	1	Shaft, Gear Shift	
5	4148277	1	Lever, Shift Cable	
6	4148278	1	Lever, Select Cable	
7	4148271	1	Lever, Gear Shf & Sel	
8	4148272	1	Yoke, Rev Shf Lim	
9	4148273	1	Retainer, Rev Shf Lim Yoke	
10	4148275	1	Spring, Low Select Return	
11	4148276	1	Spring, 5th & Rev Sel Return	
12	2702645	1	Boot, Shift & Select Sft Oil	
13	4148063	4	Bolt (8x30)	
14	4148070	1	Shim (10x18x1)	
15	4148071	1	Plug	
16	2702648	1	Spring Pin (3.5x28)	
17	2702649	1	Spring Pin (3x25)	
18	2702651	1	Spring Pin (6x28)	
19	2702652	1	Spring Pin (6x25)	
20	2702653	1	Seal, Oil (14x22x6)	
21	4148084	2	Bush, Gear Shift Shaft	
22	2702654	2	E Ring	
23	4148086	1	Spring	
24	2702658	2	Pin (9x16)	
25	2702655	2	Washer	
26	2702634	2	Bush, Select Lever Boss	
27	2702635	1	Bush, Select Lever Shaft	
28	2702642	1	Boot, Select Lever Inside	
29	2702643	1	Boot, Select Lever Outside	
30	4148279	1	Bracket, Select Lever	
31	2702475	2	Bolt	
32	2702647	1	Washer (8.5x26x1.6)	
33	2702656	1	Washer	
34	2702494	1	Nut	

> Change from previous revision

25.1 Gear Shift Fork

Serial No. All

Manual Transmission



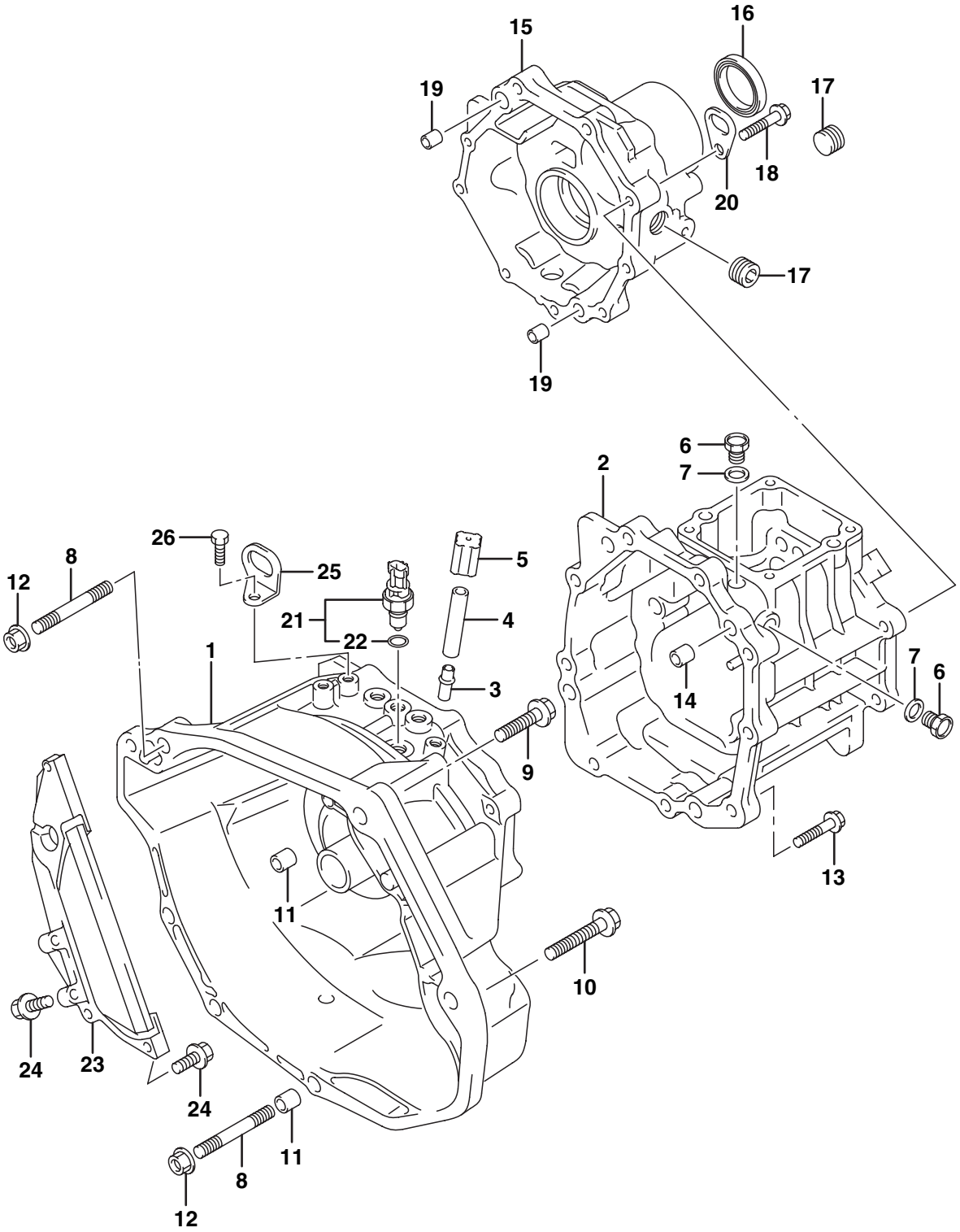
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148260	1	Fork Assy, Low Speed Gear Shift	
2	4148261	2	• Bush, Gear Shift Fork	
3	4148262	1	Fork Assy, High Speed Gear Shift	
4	4148261	2	• Bush, Gear Shift Fork	
5	4148263	1	Fork Assy, 5th & Rev Gear Shift	
6	4148261	2	• Bush, Gear Shift Fork	
7	4148264	1	Locating	
8	4148266	1	Shaft, Low Speed Gear Shf	
9	4148267	1	Spring, Low Speed Locating	
10	4148268	3	Spring, High & 5th Locating	
11	4148269	1	Lever, Reverse Gear Shift	
12	4148270	1	Lever, Low Gr Shf Inverse	
13	4148064	2	Bolt (8x20)	
14	4148072	4	Bolt (10x10.5)	
15	2702630	4	Ball	

> Change from previous revision

26.1 Transmission Case

Serial No. All

Manual Transmission



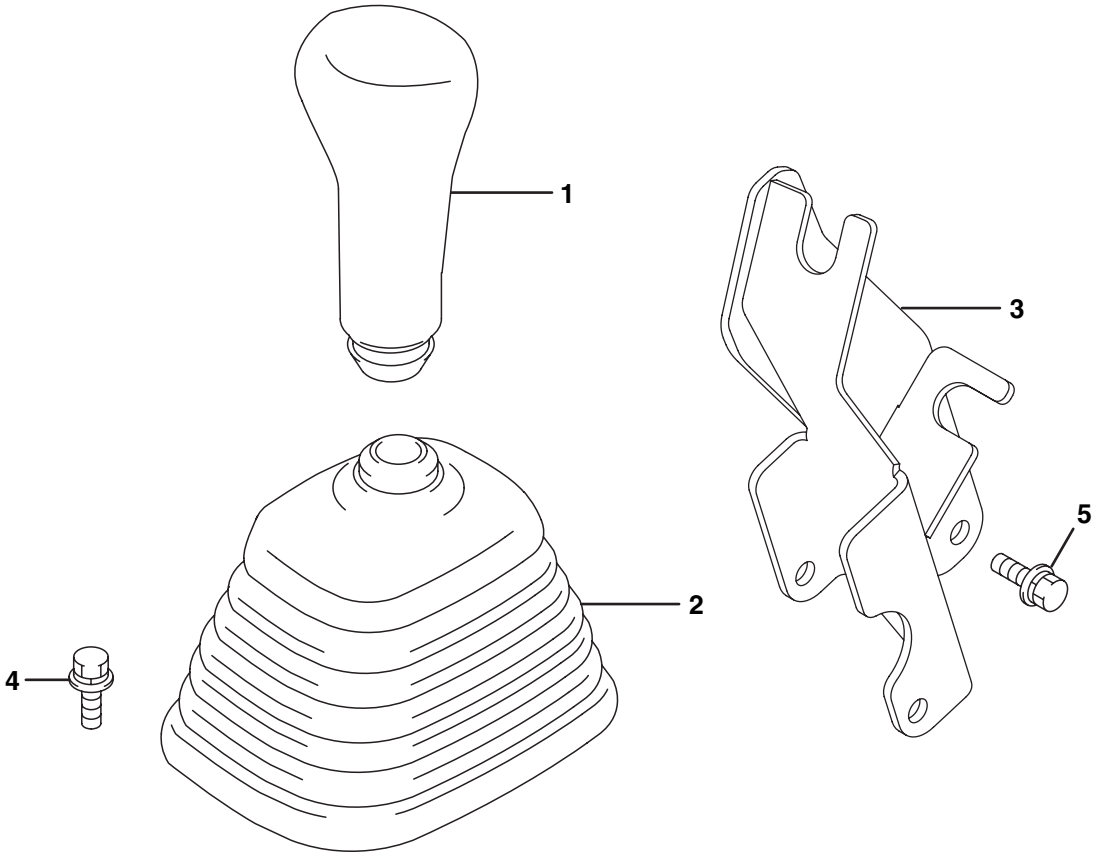
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148251	1	Case, Transmission Front	
2	4148253	1	Case, Transmission Rear	
3	2702694	1	Plug	
4	2702693	1	Hose (7x11x600)	
5	2702692	1	Plug, Breather	
6	4148073	2	Plug	
7	4148069	2	Gasket (14x20x1.5)	
8	2702688	2	Bolt, Stud	
9	2702686	1	Bolt	
10	2702687	1	Bolt	
11	2702690	2	Pin	
12	2702689	2	Nut	
13	2702659	9	Bolt	
14	2702690	2	Pin	
15	4148255	1	Case, Extension	
16	4119610	1	Seal, Ext Case Oil	
17	2702684	2	Plug	
18	2702659	8	Bolt	
19	2702690	2	Pin	
20	2702691	1	Hook	
21	4148391	1	Switch Assy, Back Up	
22	4148082	1	O Ring	
23	4141013	1	Stiffener, Eng & T/m	
24	2702470	5	Bolt	
25	4148096	1	Hook Transmission	
26	2701827	1	Bolt	

> Change from previous revision

27.1 Shift Brackets

Serial No. All

Manual Transmission



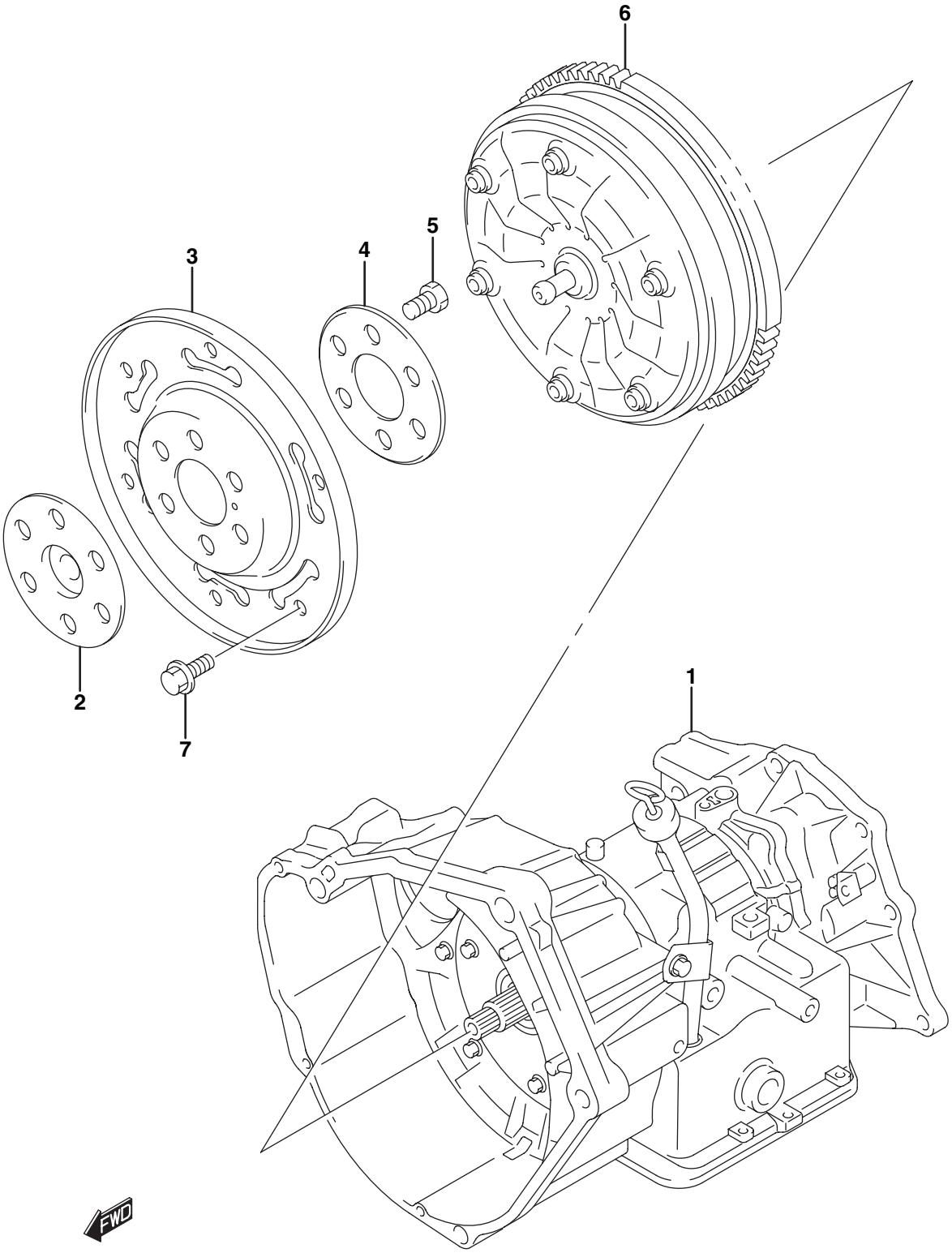
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4140431	1	Knob, Cont Lever (Black)	
2	2702696	1	Boot, Gear Shf Cont Lever	
3	4142772	1	Bracket, Cont Cable	
4	4148066	4	Bolt	
5	2701827	3	Bolt	

> Change from previous revision

28.1 Torque Converter & Flex Plate

Serial No. All

Automatic Transmission



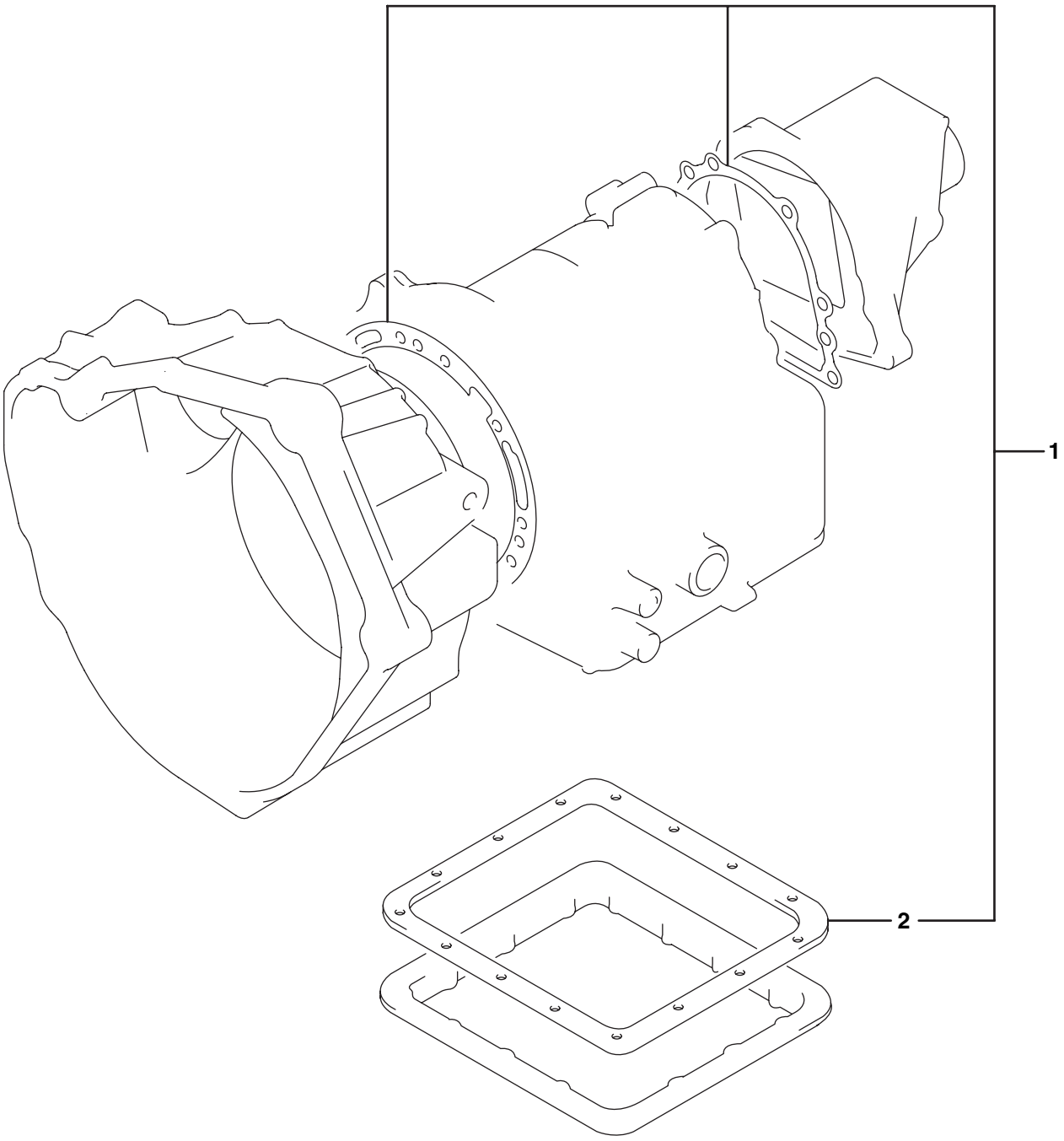
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4148212	1	Transmission Assy, Automatic	
2	4120096	1	Flange, Drive Plate	
3	4120097	1	Plate, Drive	
4	4120098	1	Plate, Drive Rear	
5	4119955	6	Bolt (10x18.5)	
6	4148213	1	Converter, Torque	
7	4148065	6	Bolt (8x9.5)	

> Change from previous revision

29.1 Case Gaskets

Serial No. All

Automatic Transmission



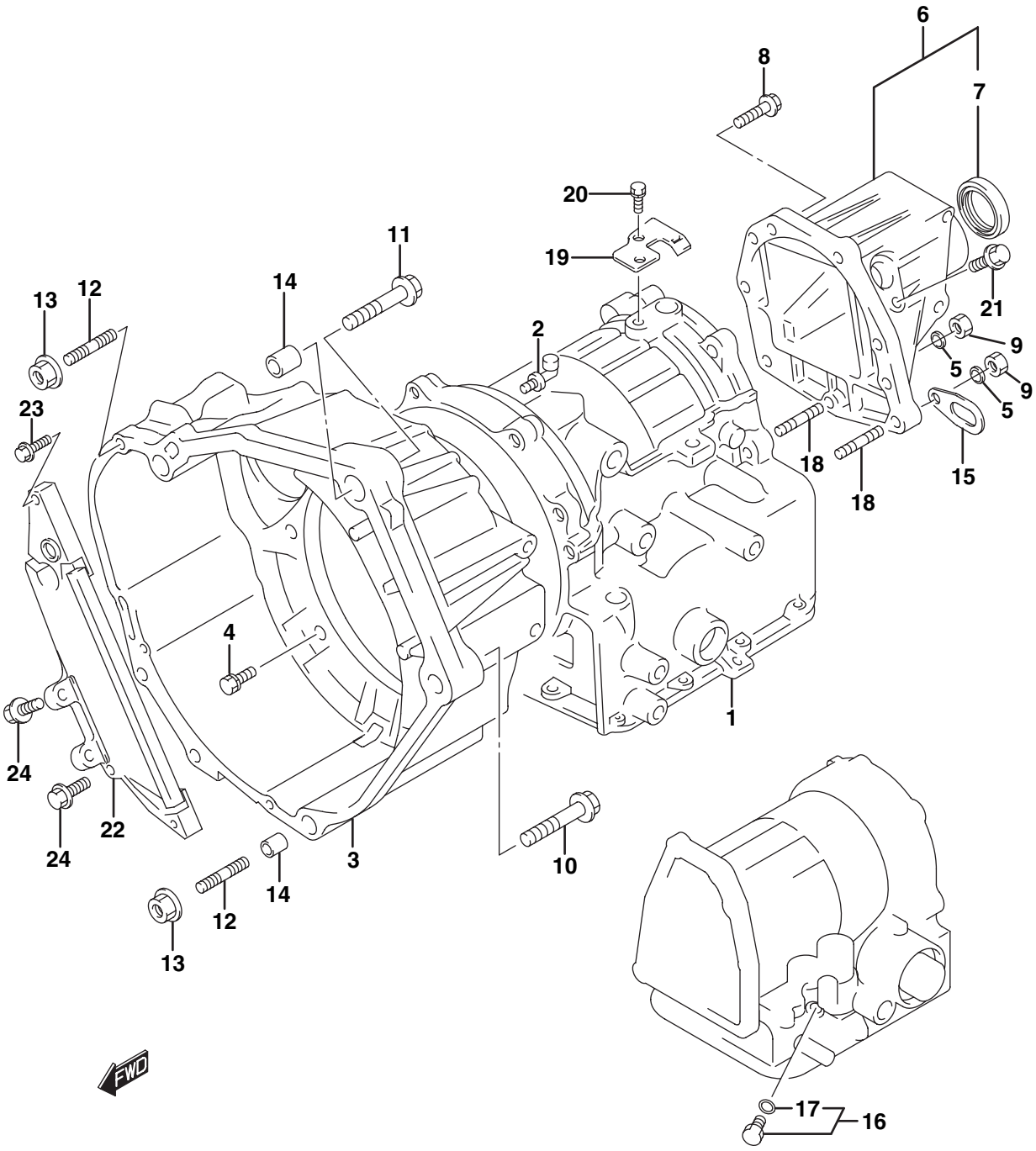
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2702748	1	Gasket Set, At	
2	2702749	1	• Gasket, T/m Oil Pan	

> Change from previous revision

30.1 Transmission Case

Serial No. All

Automatic Transmission



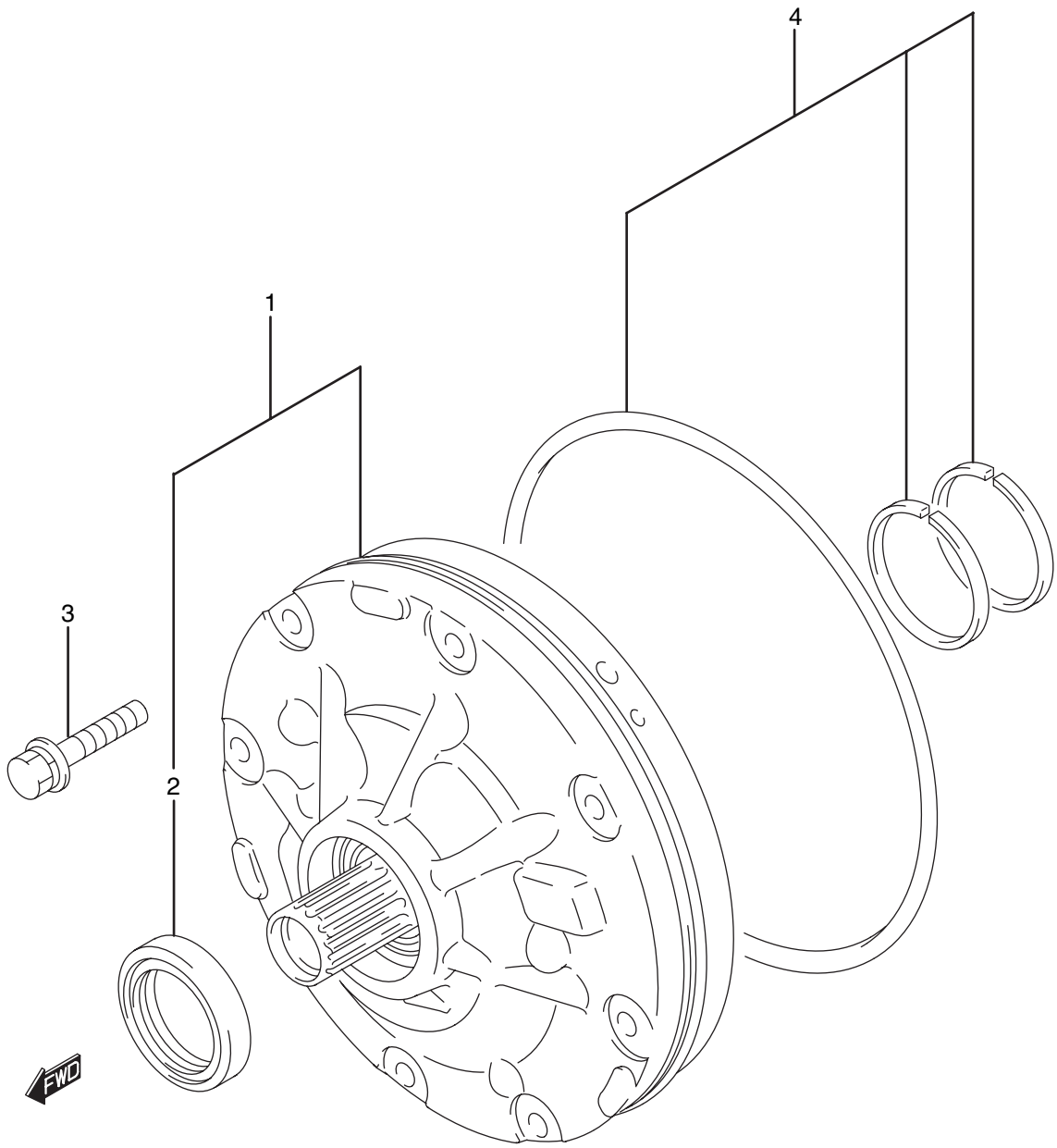
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4141032	1	Case Set, Transmission	
2	2702751	1	• Plug, Breather	
3	4148252	1	Housing, Torque Converter	
4	2702753	6	Bolt, Housing	
5	4148280	2	Washer	
6	4148256	1	Housing Set, Extension	
7	4119610	1	• Seal, Ext Case Oil	
8	4141034	5	Bolt (8x35)	
9	2702494	2	Nut	
10	2702756	1	Bolt	
11	2702686	1	Bolt	
12	2702688	2	Stud Bolt	
13	2702689	2	Nut	
14	2702690	2	Pin	
15	2702759	1	Hook, Engine	
16	2702760	1	Plug, Booster	
17	2702761	1	• O Ring	
18	2702762	2	Bolt, Case Stud	
19	2702763	1	Bracket, Connector Clamp	
20	4120102	1	Bolt, Connector Clamp Brkt	
21	2702764	1	Bolt	
22	4141035	1	Stiffener, Eng & T/m	
23	2702519	1	Bolt	
24	2702470	4	Bolt	

> Change from previous revision

31.1 Oil Pump

Serial No. All

Automatic Transmission



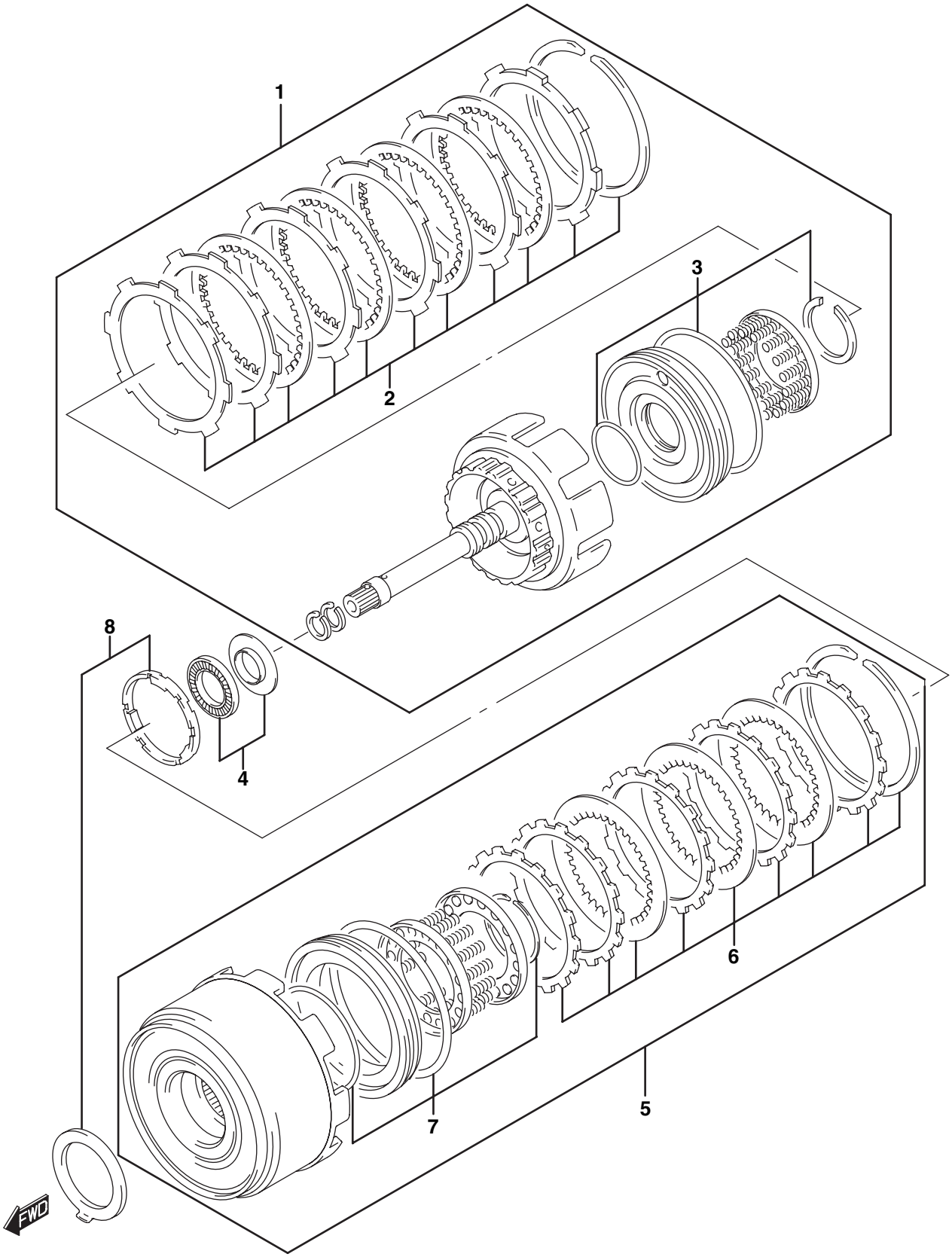
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4141014	1	Pump Assy, Oil	
2	2702766	1	• Seal, Oil Pump Body Oil	
3	2702767	8	Bolt	
4	2702768	1	Seal Ring Set, Oil Pump	

> Change from previous revision

32.1 Input Shaft & Clutch

Serial No. All

Automatic Transmission



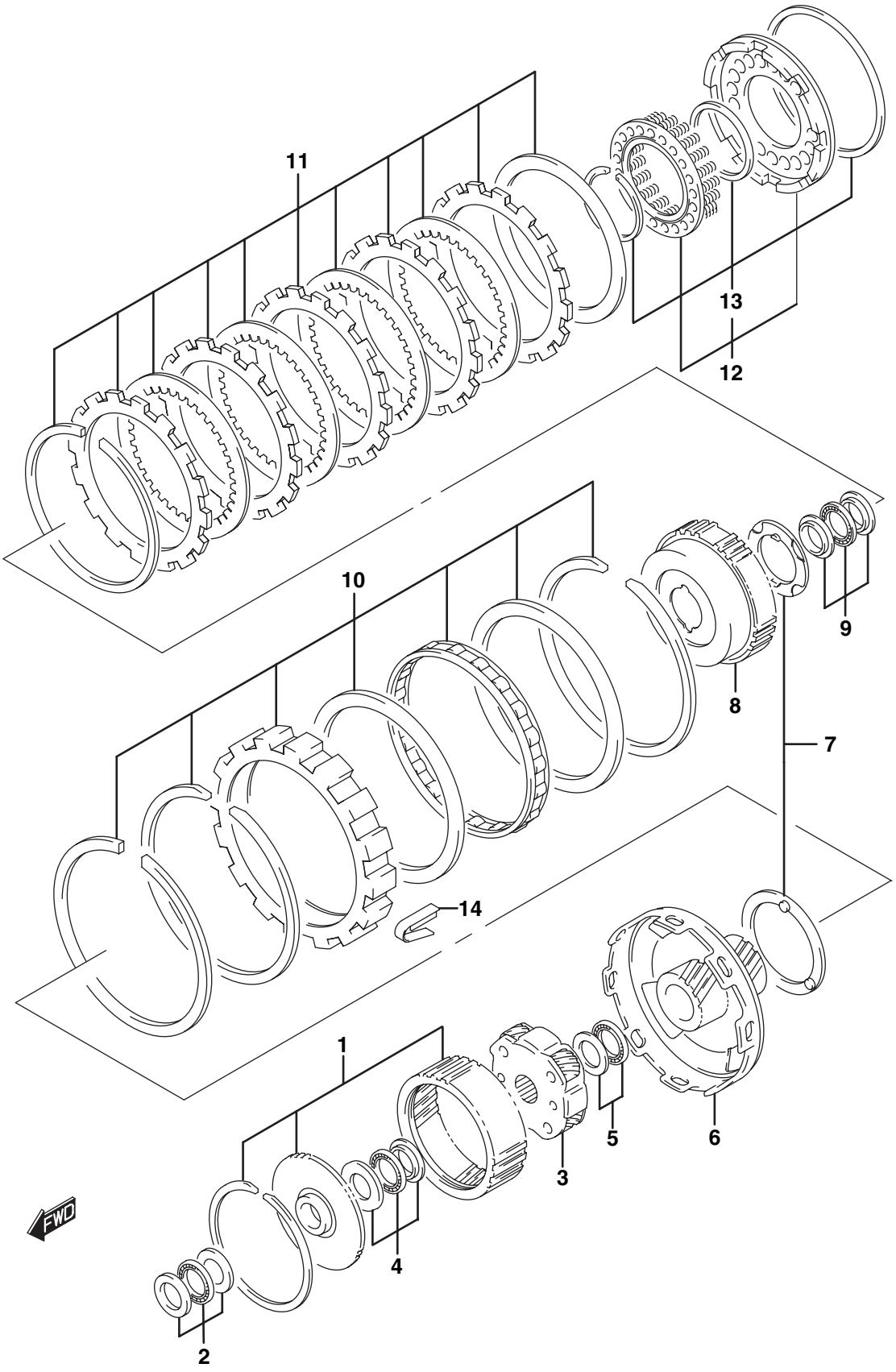
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4120103	1	Shaft Set, Input	
2	4119612	1	• Plate Set, Forward	
3	4120104	1	• O Ring Set, Forward Cl	
4	4148220	1	Thrust Brg Set, No.1	
5	4148358	1	Clutch Assy, Direct Mult Disk	
6	4119613	1	• Plate Set, Direct Clutch	
7	4120106	1	• O Ring Set Direct Clutch	
8	2702776	1	Washer Set, Direct Clutch	

> Change from previous revision

33.1 Planetary Gears

Serial No. All

Automatic Transmission



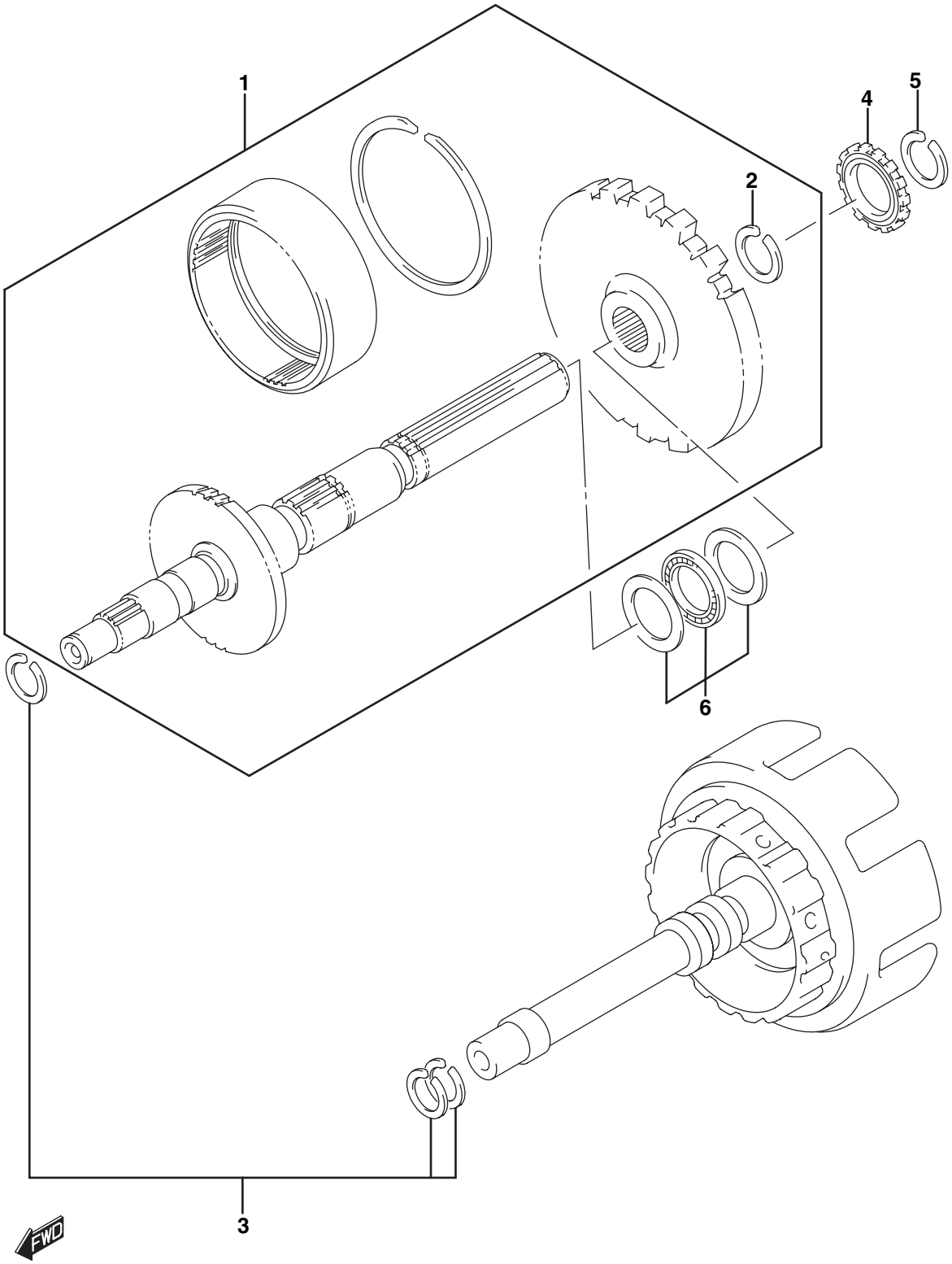
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2702777	1	Gear Assy, Fr Plnty Ring	
2	2702778	1	Thrust Brg Set, No.3	
3	2702779	1	Gear Assy, Front Plnty	
4	2702780	1	Thrust Brg Set, No.4	
5	2702781	1	Thrust Brg Set, No.5	
6	4148392	1	Gear Assy, Plnty Sun	
7	2702783	1	Thrust Washer Set	
8	2702784	1	Gear Assy, Rear Planetary	
9	4148221	1	Thrust Brg Set, No.1	
10	4120107	1	Clutch Set, One Way	
11	4141015	1	Plate Set, 1st & Rev	
12	2702788	1	Piston Set, 1st & Rev	
13	2702789	1	• O Ring Set, 1st & Rev	
14	4120108	1	Retainer, Outer Race	

> Change from previous revision

34.1 Output Shafts

Serial No. All

Automatic Transmission



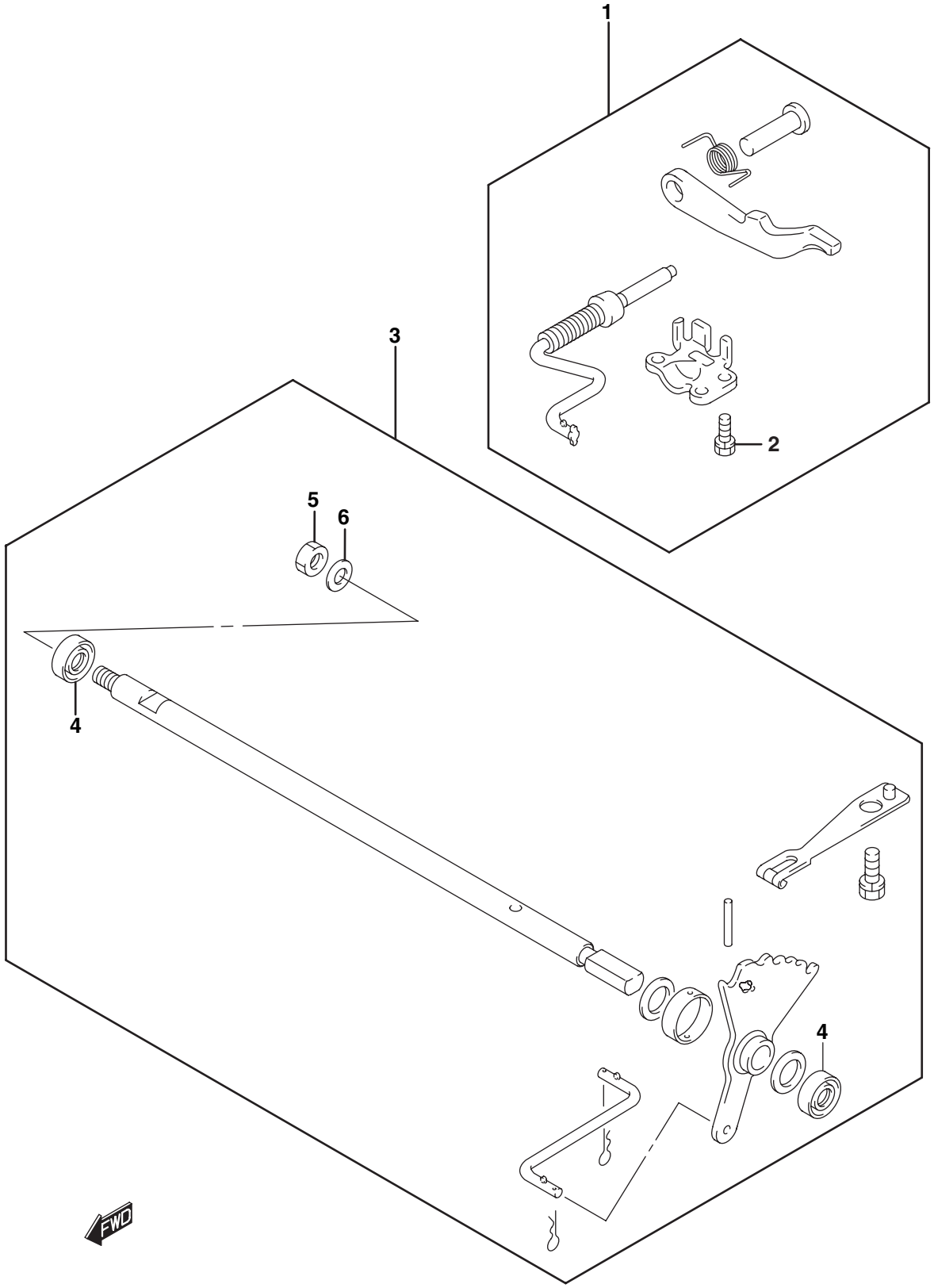
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2702790	1	Shaft Set, Output	
2	2702791	1	• Ring, Parking Lock Gear	
3	2702792	1	Seal Ring Set, Shaft	
4	2702793	1	Ring, Speedometer Exciter	
5	2702794	1	Circlip, Exciter Ring	
6	2702795	1	Thrust Brg Set, No.6	

> Change from previous revision

35.1 Parking Brake

Serial No. All

Automatic Transmission



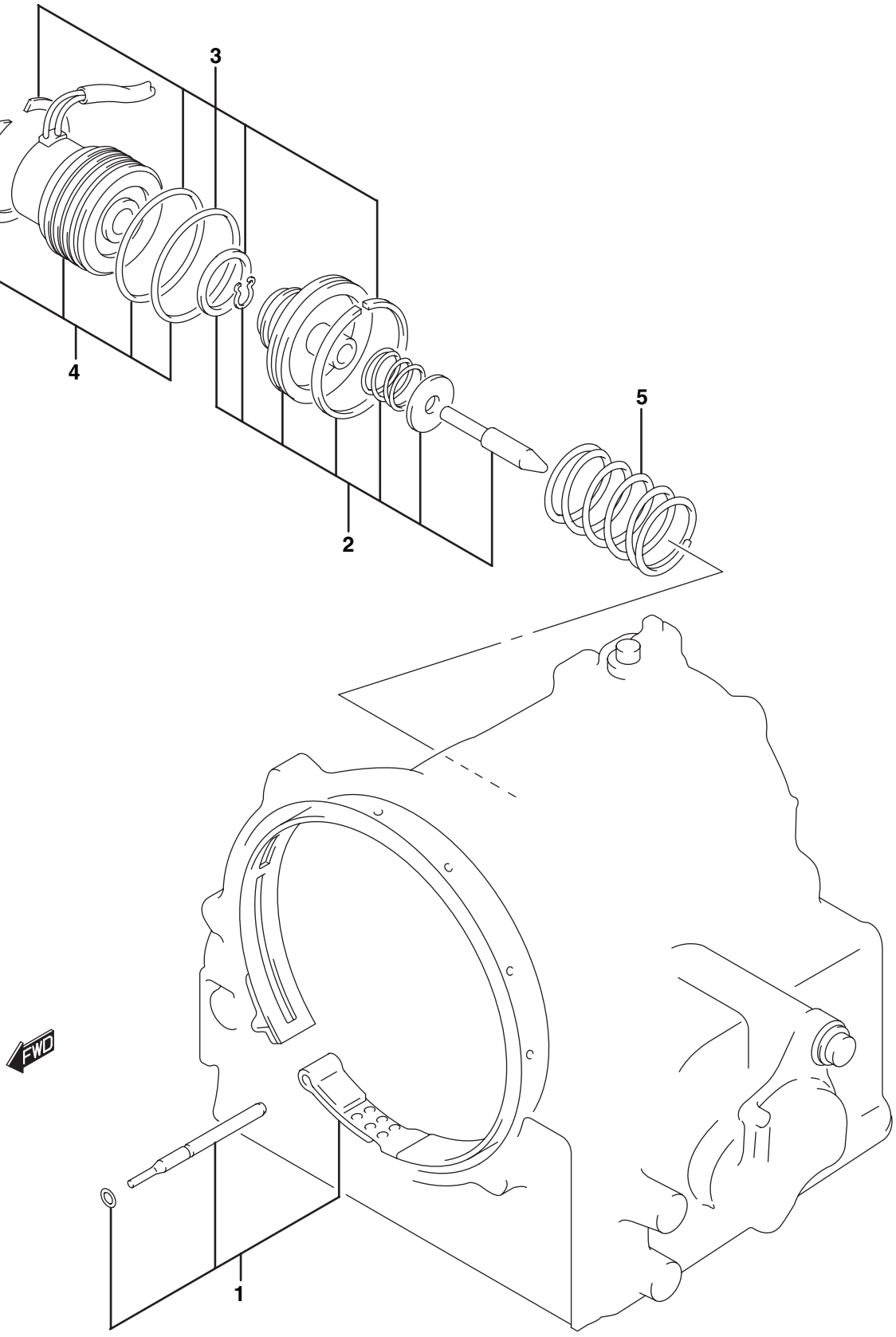
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2702796	1	Parking Pawl Set	
2	2701921	3	• Bolt	
3	4141016	1	Shaft Set, Mnl Lever	
4	2702798	2	• Seal, Manual Shift Shaft Oil	
5	2702494	1	• Nut	
6	2702799	1	• Washer, Manual Shift Shaft	
7				

> Change from previous revision

36.1 Brake Band

Serial No. All

Automatic Transmission



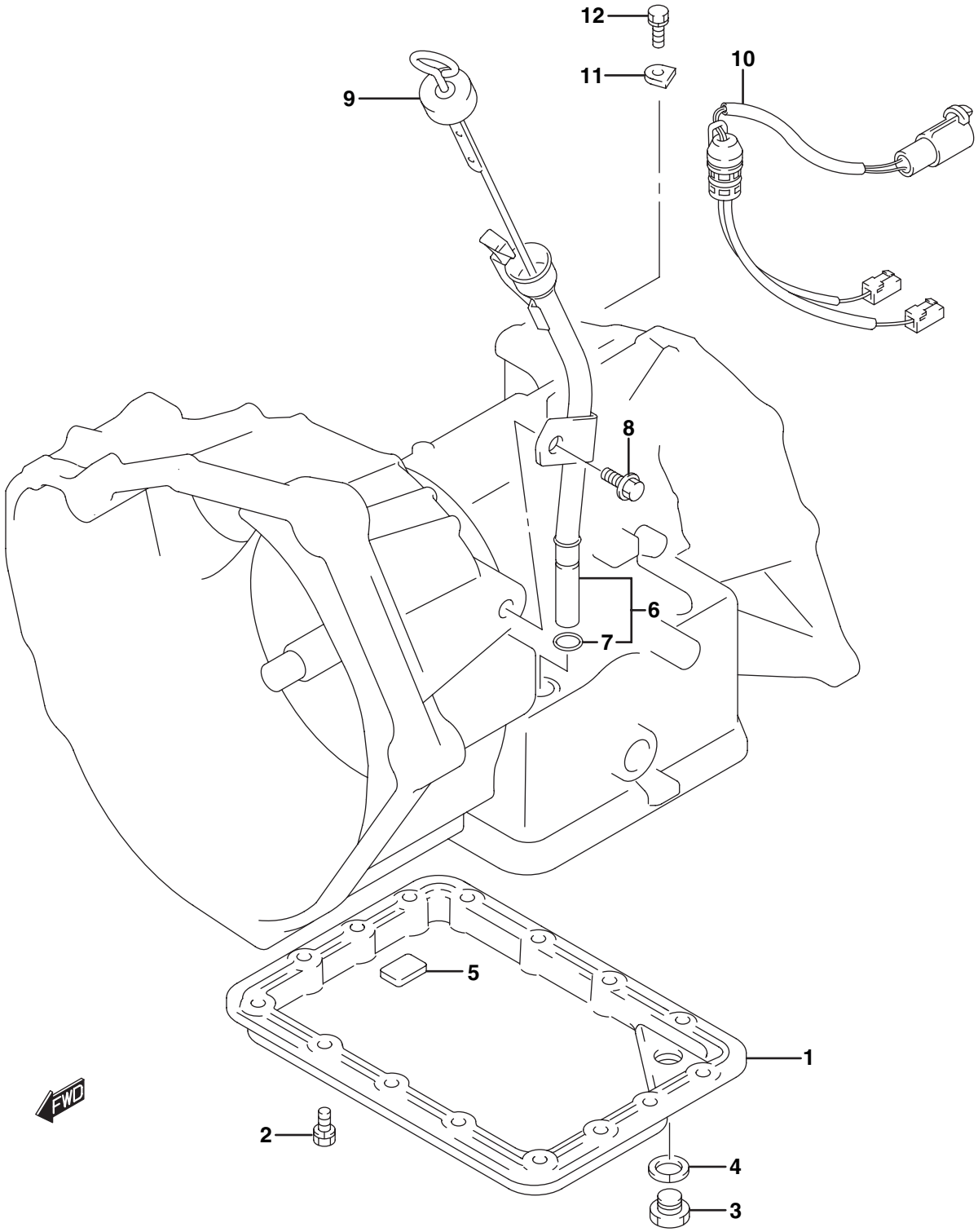
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4141018	1	Band Set, 2nd Brake	
2	4148359	1	Piston Assy, 2nd Brake	
3	2702803	1	Seal Ring Set, 2nd Brake	
4	2702804	1	Cover Set, 2nd Bk Piston	
5	2702805	1	Spring, 2nd Brake Pstn	

> Change from previous revision

37.1 Oil Pan

Serial No. All

Automatic Transmission



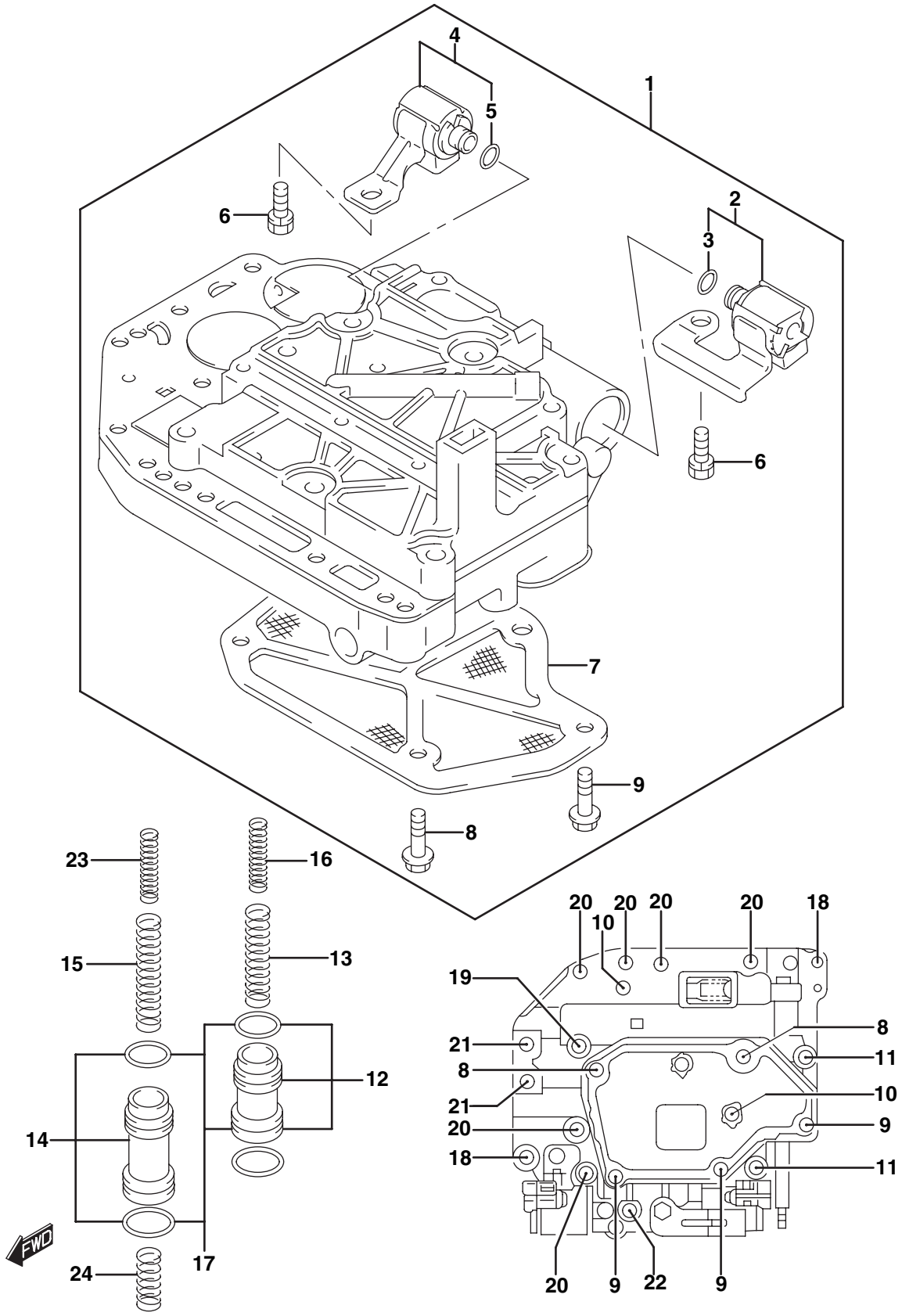
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2702806	1	Pan, T/m Oil	
2	2702807	15	Bolt, Oil Pan	
3	2702808	1	Plug	
4	2702809	1	Gasket (12x16.7x2)	
5	2702810	1	Magnet, Oil Cleaner	
6	4148257	1	Tube Assy, Oil Filler	
7	2702813	1	• O Ring	
8	2702475	1	Bolt	
9	4148258	1	Gauge, Oil Level	
10	4148254	1	Harness, Solenoid Wire	
11	2702817	1	Plate, Solenoid Wire Harn Hold	
12	2701921	1	Bolt	

> Change from previous revision

38.1 Valve

Serial No. All

Automatic Transmission



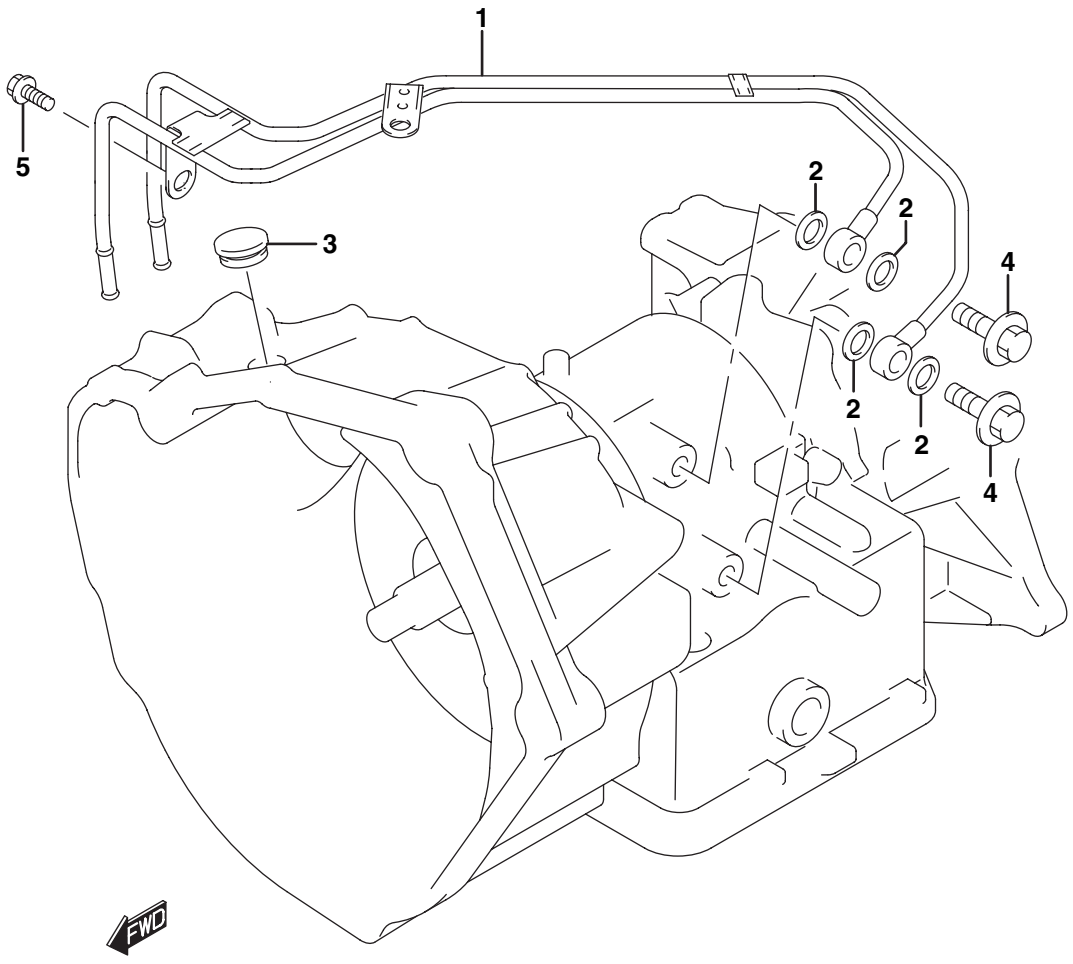
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4141019	1	Body Assy, T/m Valve	
2	2702822	1	• Solenoid Assy, Direct Clutch	
3	2702823	1	• • O Ring	
4	2702824	1	• Solenoid Assy, 2nd Brake	
5	2702823	1	• • O Ring	
6	2702764	2	• Bolt, Solenoid	
7	2702825	1	• Strainer, T/m Oil	
8	2702826	2	• Bolt, Valve Body No.5	
9	2702827	3	• Bolt, Valve Body No.6	
10	2702839	2	• Bolt, Valve Body No.1	
11	2702840	2	• Bolt, Valve Body No.2	
12	4141020	1	Piston Set, C1 Acc	
13	4141021	1	Spring, Acc 2nd Brake Piston	
14	2702830	1	Piston Set, B1 Accum	
15	2702831	1	Spring, Acc 2nd Bk Pstn No.1	
16	4141022	1	Spring, Acc Fwd Piston Lower	
17	4141023	1	Seal Ring Set, Acc	
18	2702834	2	Bolt, Valve Body No.2	
19	2702835	1	Bolt, Valve Body No.3	
20	2702836	6	Bolt, Valve Body No.1	
21	2702837	2	Bolt, Valve Body No.4	
22	2702838	1	Bolt, Valve Body No.6	
23	2702841	1	Spring, Acc 2nd Bk Pstn No.2	
24	2702842	1	Spring, Acc 2nd Bk Pstn No.3	

> Change from previous revision

39.1 Cooling Tubes

Serial No. All

Automatic Transmission



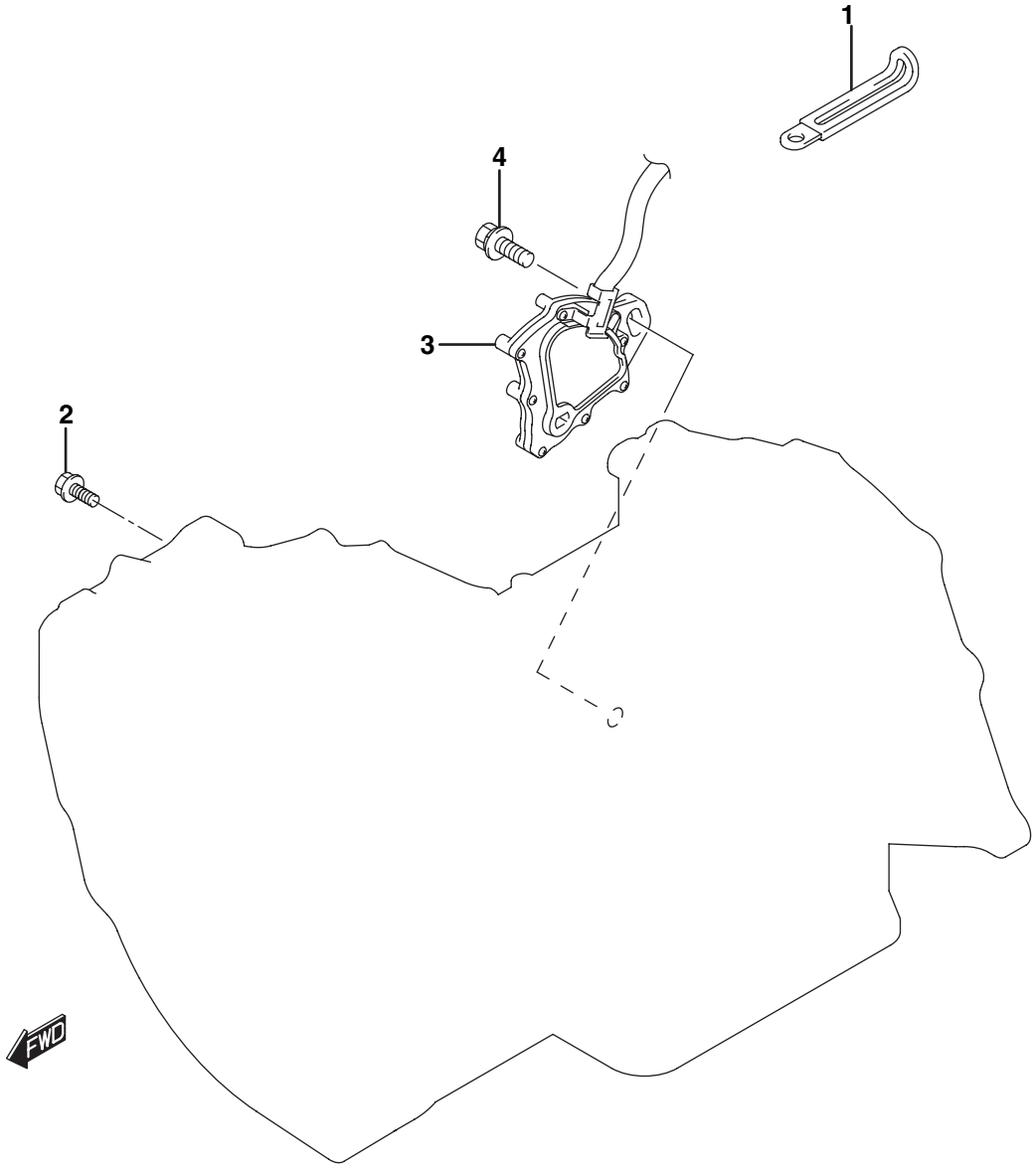
Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	2702844	1	Pipe, Oil	
2	2702846	4	Gasket, Oil Pipe	
3	2702662	1	Cap	
4	4148085	2	Union	
5	2702537	1	Screw	

> Change from previous revision

40.1 Shift Switch

Serial No. All

Automatic Transmission



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	09404-06429	1	Clamp	
2	2702880	2	Bolt, Cable Bracket	
3	4120112	1	Switch Assy, Shift	
4	2702886	1	Bolt	

> Change from previous revision

41.1 Emission Control System

Serial No. All

Description	Notes
Fuel Metering System:	
Throttle Body	
Intake Manifold	
Fuel Filter	
Fuel Deliver Rail	
Fuel Injector	
Ignition System:	
Engine Coolant Sensor	
Throttle Position Sensor	
Pressure Sensor	
Idle Speed Control (ISC) Valve	
Spark Plug	Covered up to the first replacement only
Knock Sensor	
Cam Position Sensor	
Ignition Coil	
Ignition Resitor	
Electronic Control Module (ECM)	
Exhaust System:	
Catalytic Converter	
Exhaust Manifold	
Oxygen Sensor	
Air Intake System:	
Air Inlet Temperature Sensor	
Air Cleaner	Covered up to the first replacement only
Air Cleaner Housing	
Crankcase Emission Control System:	
Oil Fill Cap	
Positive Crankcase Ventilation (PCV) Valve	
Parts Associated with the Systems Above	
Tubing, Fittings, Clamps, Gaskets, Grommets, Hoses and Mounting Hardware	

> Change from previous revision

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