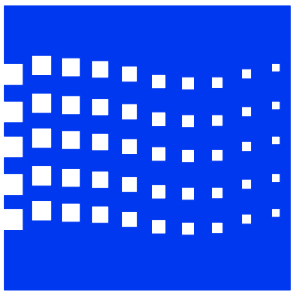

Dry Systems® Technologies

Technology for a cleaner environment

10420 Rising Court Woodridge, IL 60517

Customized Parts Catalog for Engine Model

6CTAA 8.3 230 HP

M500-269-11

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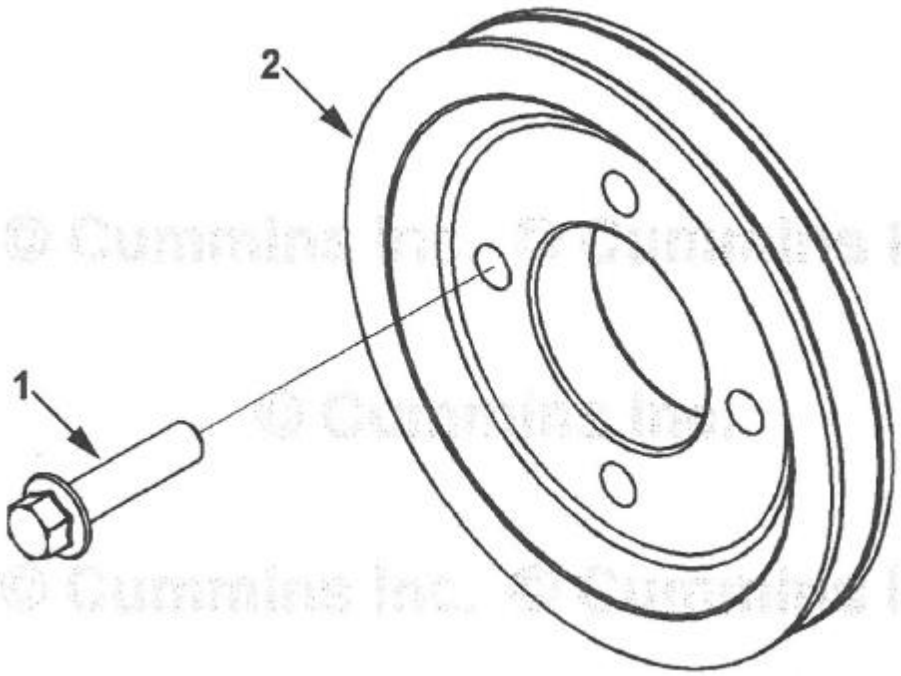
NOTE: Part numbers appearing in ( ) are for identification purposes only and should not be used when ordering service replacement parts.

Dry Systems® Technologies

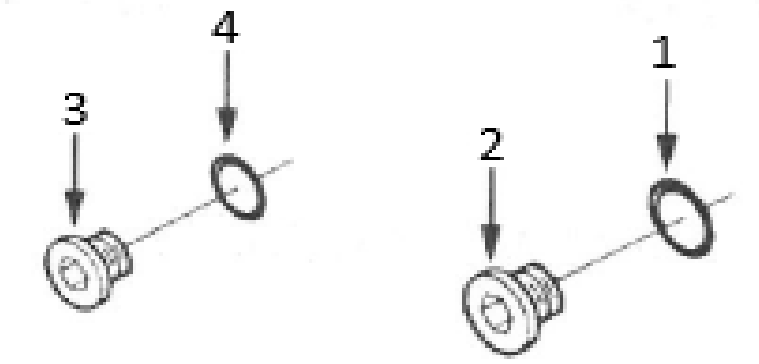
FRONT DRIVE ADAPTER



Item	Qty	Part Number	Description
1	4	M321-501-01	Screw, Hex Flange Head Cap
2	1	M321-501-02	Pully, Crankshaft

Dry Systems® Technologies

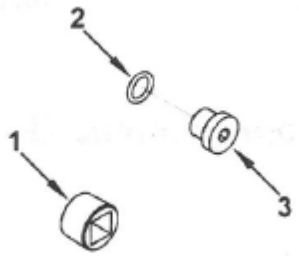
CYLINDER BLOCK LBC PLUMBING



Item	Qty	Part Number	Description	
	1	M321-501-03	Plug, Threaded	M14
1	1	M321-501-04	Seal, O-Ring	M14
2	1	(M321-501-05)	Plug, Threaded	M14
	5	M321-501-06	Plug, Threaded	M10
3	1	(M321-501-07)	Plug, Threaded	M10
4	1	M321-501-08	Seal, O-Ring	M10

Dry Systems® Technologies

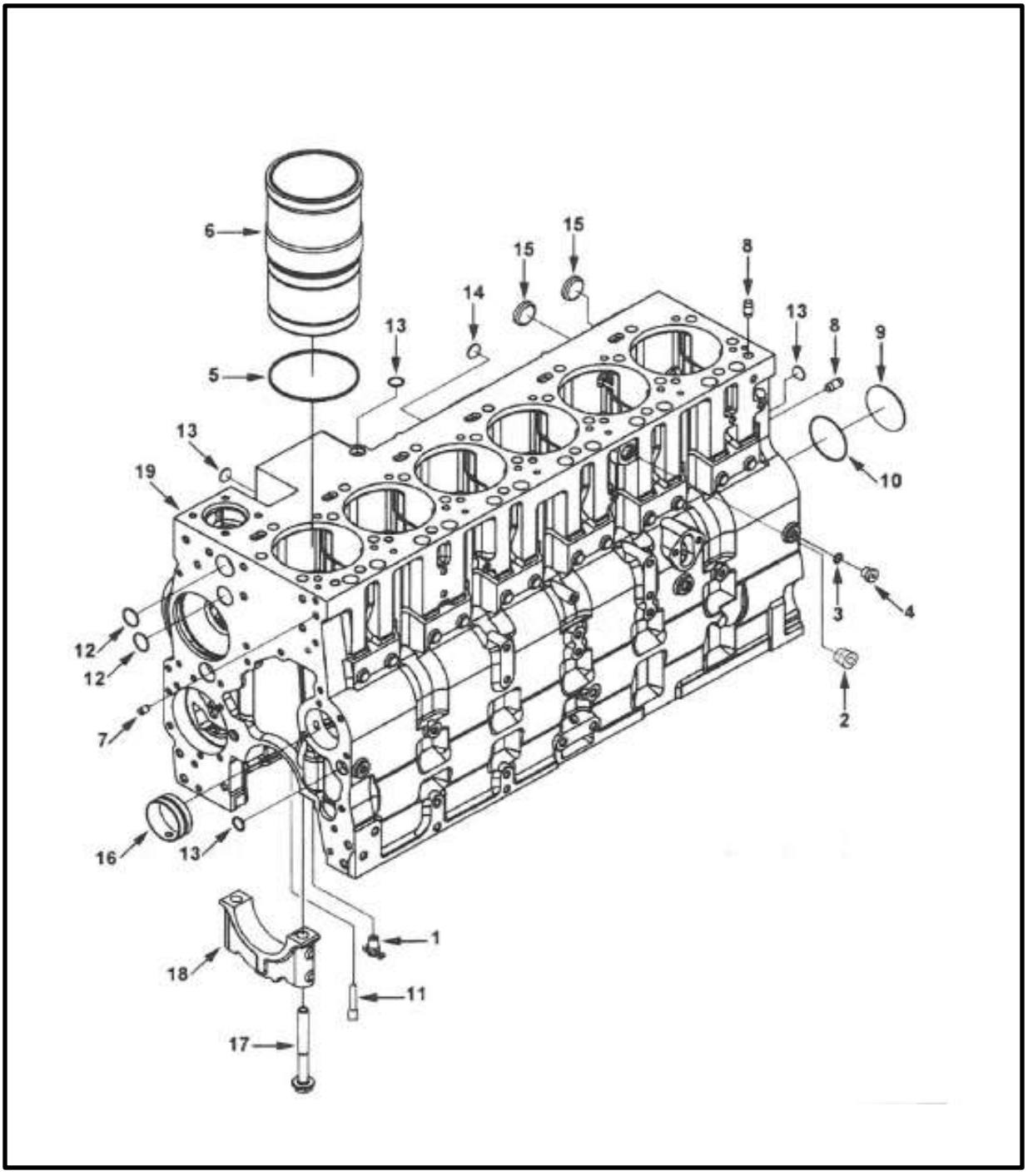
PLUMBING, CYL BLOCK COOLANT



Item	Qty	Part Number	Description	
1	2	M321-501-09	Plug, Pipe	3/4 NPT
	1	M321-501-03	Plug, Threaded	M14
2	1	M321-501-04	Seal, O-Ring	M14
3	1	(M321-501-05)	Plug, Threaded	M14

Dry Systems® Technologies

CYLINDER BLOCK



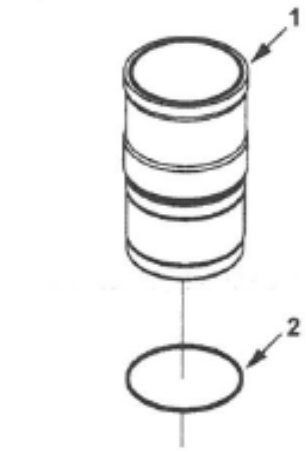
Dry Systems® Technologies

CYLINDER BLOCK

Item	Qty	Part Number	Description
1	1	M321-501-10	Draincock
2	1	M321-501-227	Plug, Pipe 1/2 NPT
	1	M321-501-03	Plug, Threaded M14
3	1	M321-501-04	Seal, O-Ring M14
4	1	(M321-501-05)	Plug, Threaded M14
	6	M321-501-11	Kit, Cylinder Liner
5	1	M321-501-12	Seal, Rectangular Ring
6	1	(M321-501-13)	Liner, Cylinder (Sold in higher level assy / kits)
7	2	M321-501-14	Pin, Dowel
8	2	M321-501-15	Pin, Dowel
9	1	M321-501-16	Plug, Expansion
10	1	M321-501-17	Seal, O-Ring
11	12	M321-501-18	Nozzle, Piston Cooling
	1	M321-501-19	Block, Cylinder
12	3	M321-501-20	Plug, Expansion
13	4	M321-501-21	Plug, Expansion
14	3	M321-501-22	Plug, Expansion
15	4	M321-501-23	Plug, Expansion
16	7	M321-501-24	Bushing
17	14	M321-501-25	Screw, Hex Head Flange Head Cap
18	7	M321-501-26	Cap, Main Bearing
19	1	(M321-501-27)	Block, Cylinder
			Counterbore Service Shims
	A/R	M321-501-28	Shim 0.25mm Oversize (0.010 in)
	A/R	M321-501-29	Shim 0.38mm Oversize (0.015 in)
	A/R	M321-501-30	Shim 0.51mm Oversize (0.020 in)
	A/R	M321-501-31	Shim 0.75mm Oversize (0.030 in)
	A/R	M321-501-32	Shim 1.00mm Oversize (0.040 in)

Dry Systems® Technologies

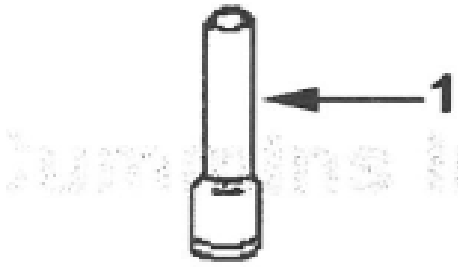
CYLINDER LINER



Item	Qty	Part Number	Description
	6	M321-501-11	Kit, Cylinder Liner
1	1	(M321-501-13)	Liner, Cylinder (Sold in higher level assy / kit)
2	1	M321-501-12	Seal, Rectangualr Ring
			Counterbore Service Shims
	A/R	M321-501-28	Shim 0.25mm Oversize (0.010 in)
	A/R	M321-501-29	Shim 0.38mm Oversize (0.015 in)
	A/R	M321-501-30	Shim 0.51mm Oversize (0.020 in)
	A/R	M321-501-31	Shim 0.75mm Oversize (0.030 in)
	A/R	M321-501-32	Shim 1.00mm Oversize (0.040 in)

Dry Systems® Technologies

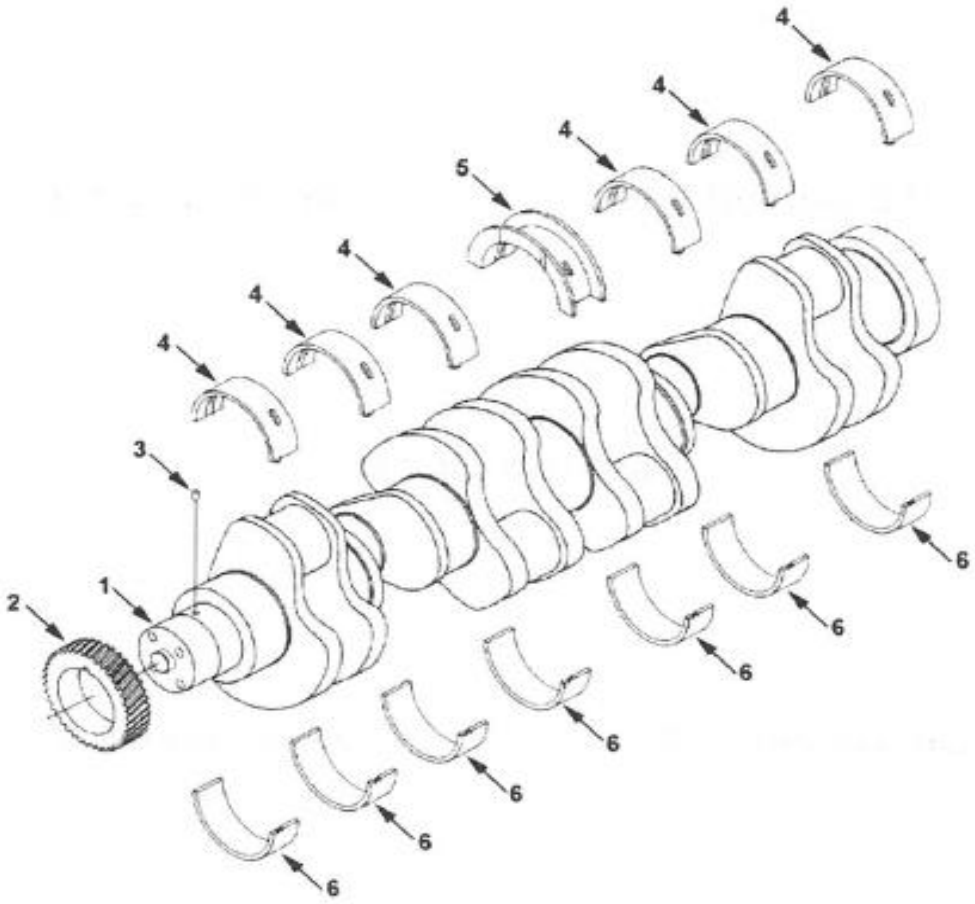
PISTON COOLING NOZZLE



Item	Qty	Part Number	Description
1	12	M321-501-18	Nozzle, Piston Cooling

Dry Systems® Technologies

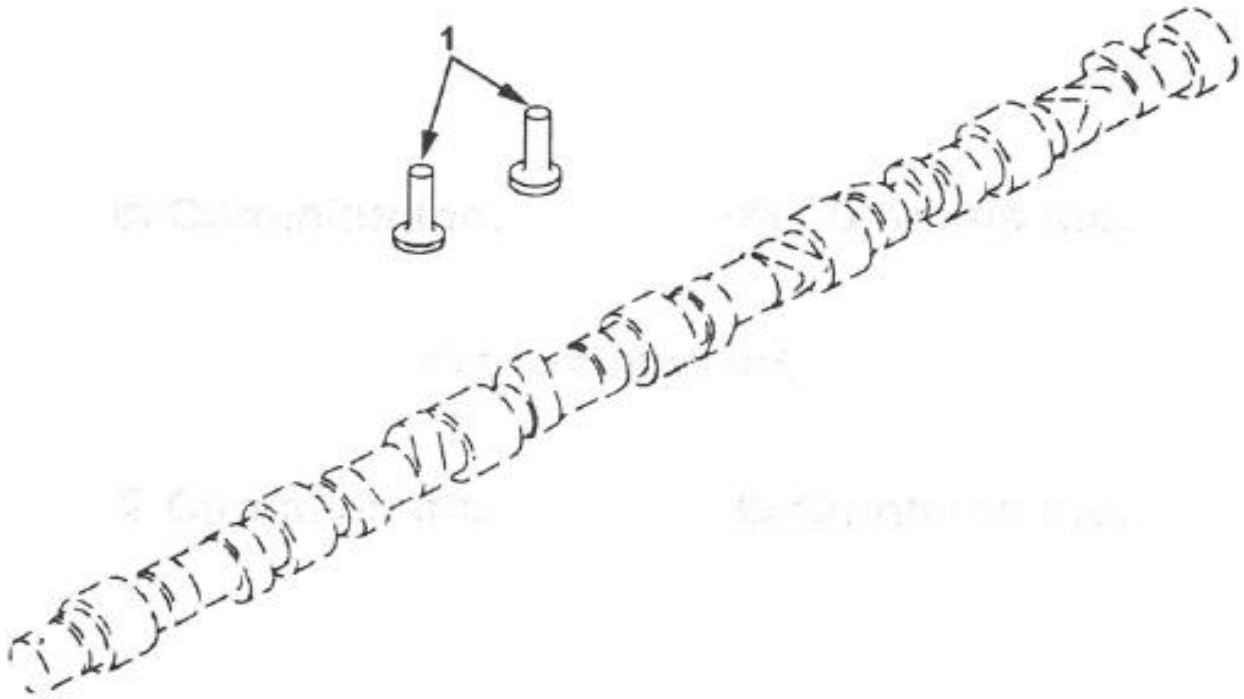
CRANKSHAFT ASSEMBLY



Item	Qty	Part Number	Description
	1	M321-501-33	Assembly TLA, Crankshaft
1	1	(M321-501-34)	Crankshaft, Engine
2	1	M321-501-35	Gear, Crankshaft
3	1	M321-501-36	Pin, Dowel
	1	M321-501-17	Seal, O-Ring
			Main Bearing Sets
	1	M321-501-37	Kit, PDC Standard
4	6	(M321-501-38)	Bearing, Main (Sold in higher level assy / kit
5	1	M321-501-39	Bearing, Crakshaft Thrust Standard
6	7	(M321-501-40)	Bearing, Main (Sold in higher level assy / kit)

Dry Systems® Technologies

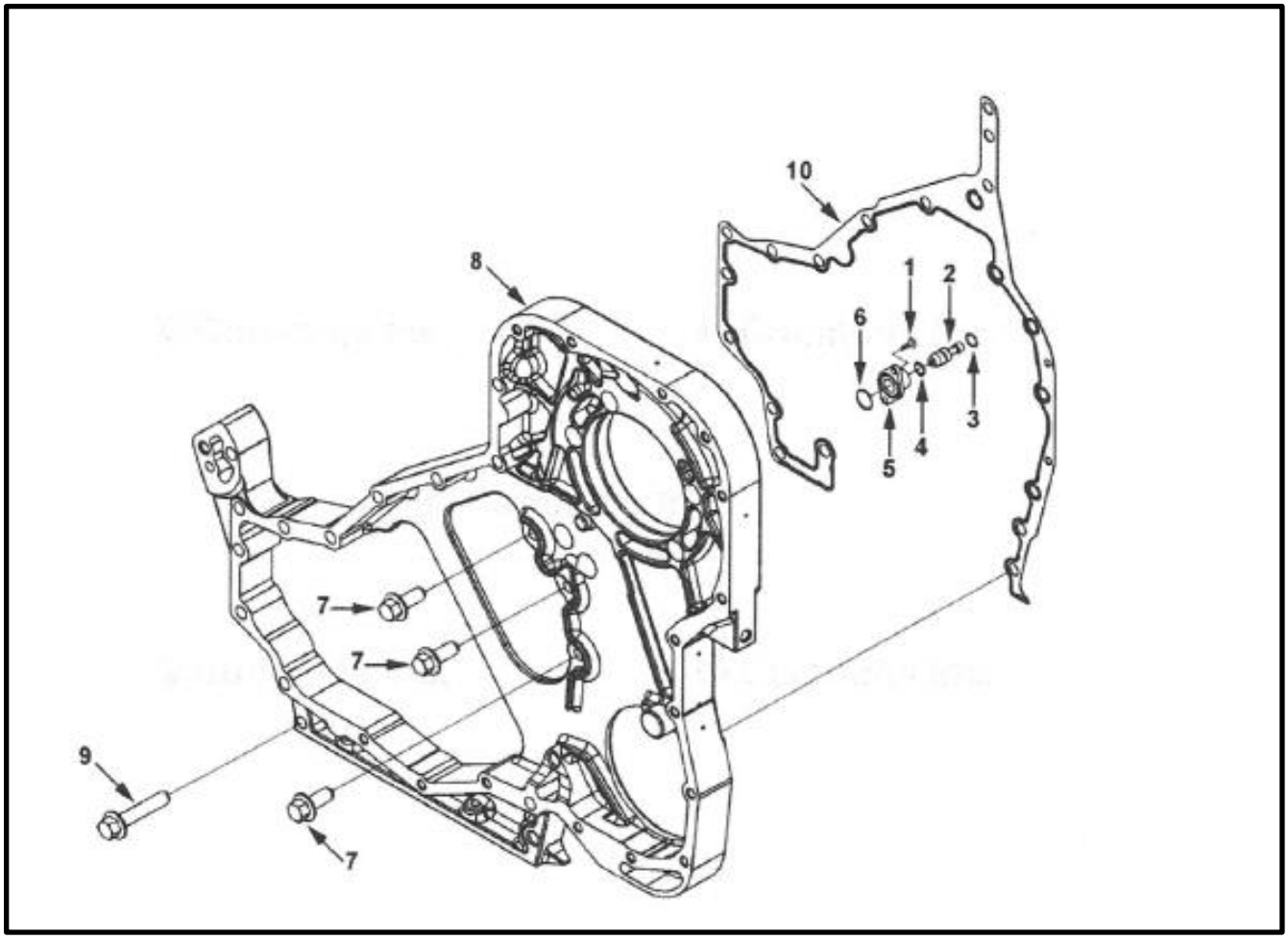
VALVE TAPPET



Item	Qty	Part Number	Description
1	12	M321-501-41	Tappet, Valve

Dry Systems® Technologies

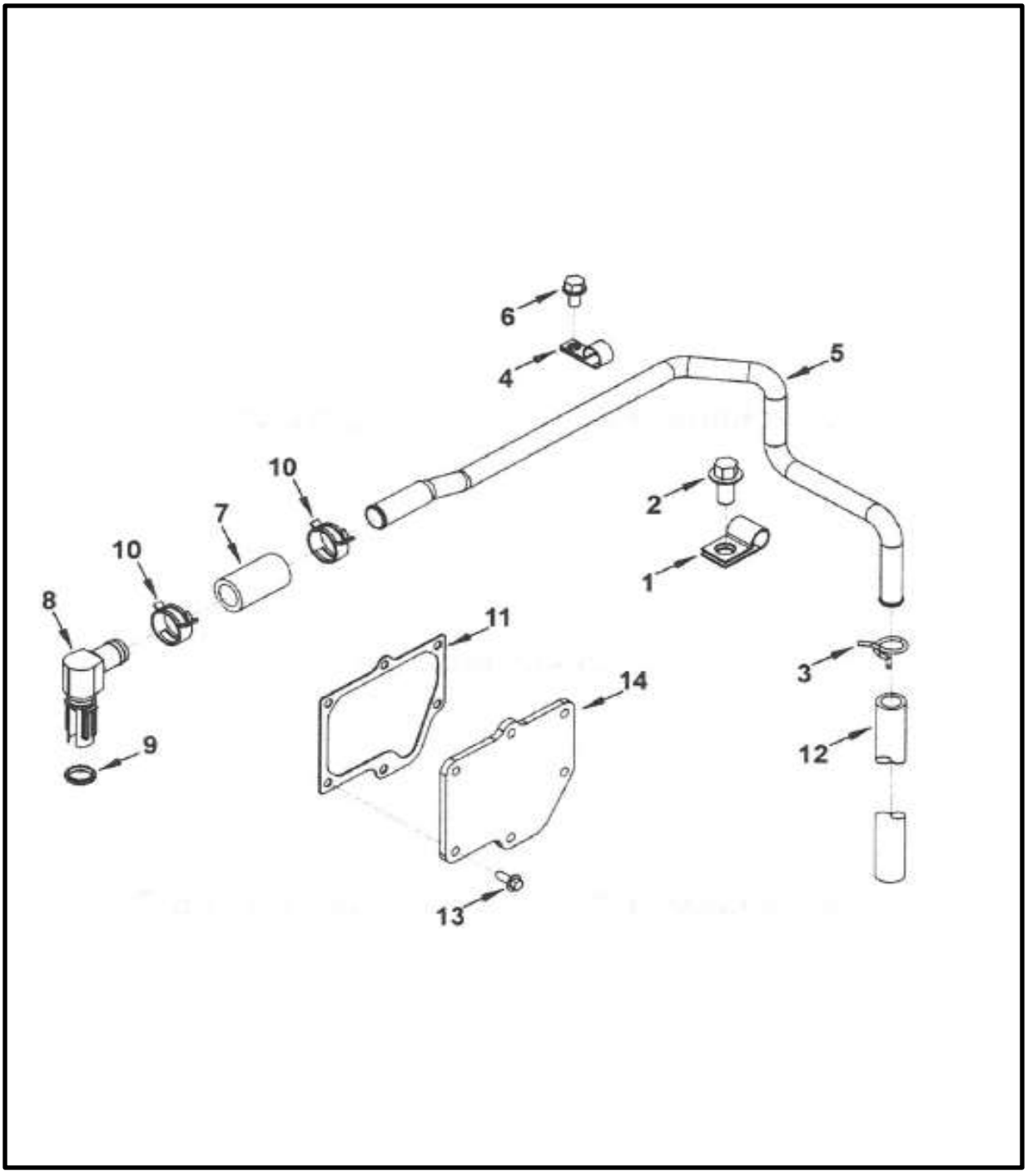
FRONT GEAR HOUSING



Item	Qty	Part Number	Description
1	2	M321-501-42	Screw, Round Head Cap
	1	M321-501-43	Housing, Timing Pin
2	1	M250-614-01	Pin, Timing
3	1	M321-501-44	Ring, Retaining
4	1	M250-615-01	Seal, O-Ring
5	1	M250-616-01	Housing, Timing Pin
6	1	M250-617-01	Seal, Rectangular Ring
7	3	M321-501-45	Screw, Hex Flange Head Cap
8	1	M321-501-46	Housing, Gear
9	3	M321-501-47	Screw, Hex Flange Head Cap
10	1	M321-501-48	Gasket, Gear Housing

Dry Systems® Technologies

CRANKCASE BREATHER



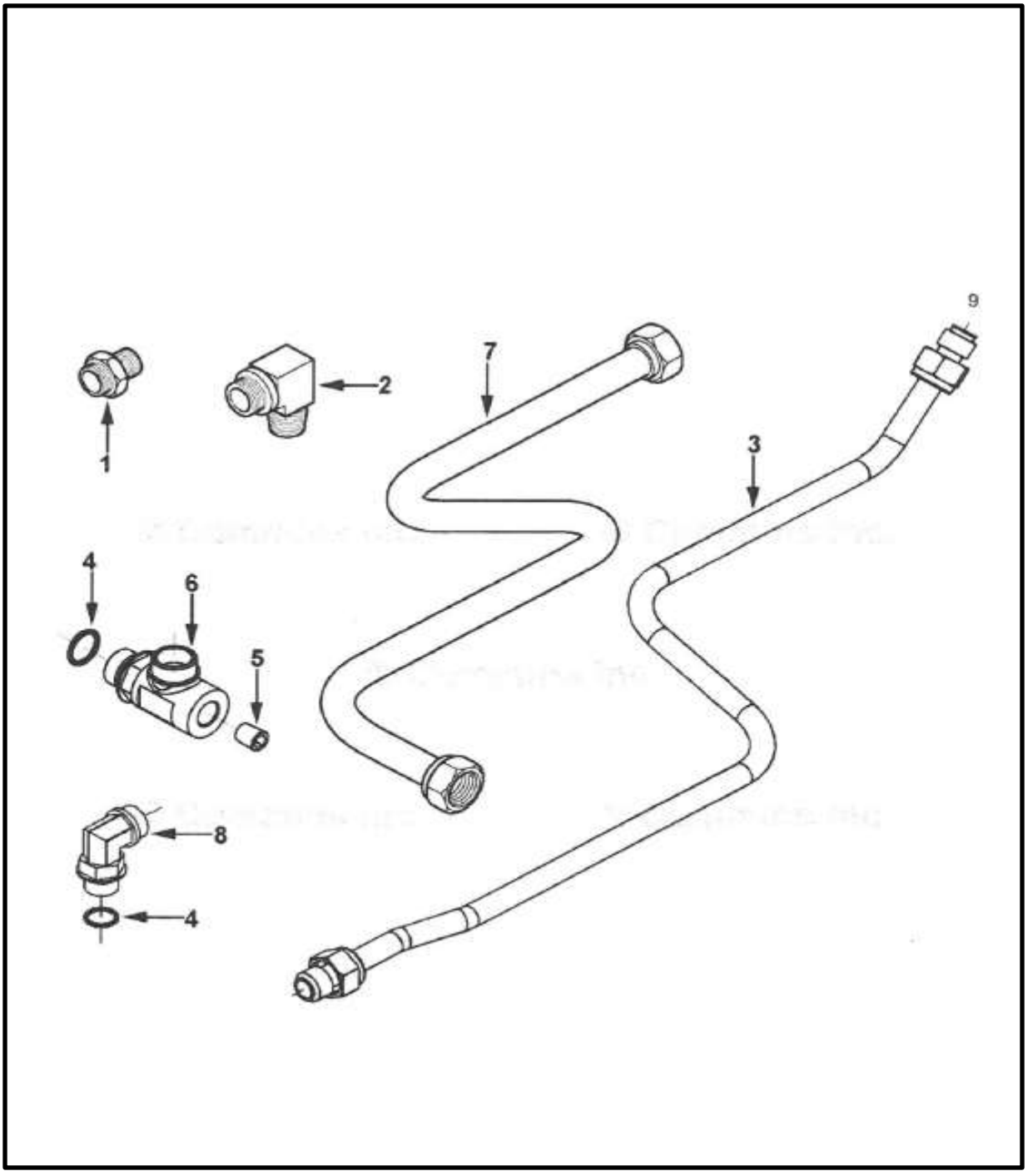
Dry Systems® Technologies

CRANKCASE BREATHER

Item	Qty	Part Number	Description
1	1	M321-501-49	Clip
2	1	M321-501-50	Screw, Hex Flange Head Cap
3	1	M321-501-51	Clamp, Spring Hose
4	1	M321-501-52	Clip
5	1	M321-501-53	Tube, Breather
6	1	M321-501-54	Screw, Self Tapping Metal
7	1	M321-501-55	Hose, Plain
8	1	M321-501-56	Connection, Vent
9	1	M321-501-57	Seal, Rectangular Ring
10	2	M321-501-58	Clamp, Hose
11	1	M321-501-59	Gasket, Breather
12	1	M321-501-60	Hose, PLain
13	6	M321-501-61	Screw, Hex Flange Head Cap
14	1	M321-501-62	Plate, Cover

Dry Systems® Technologies

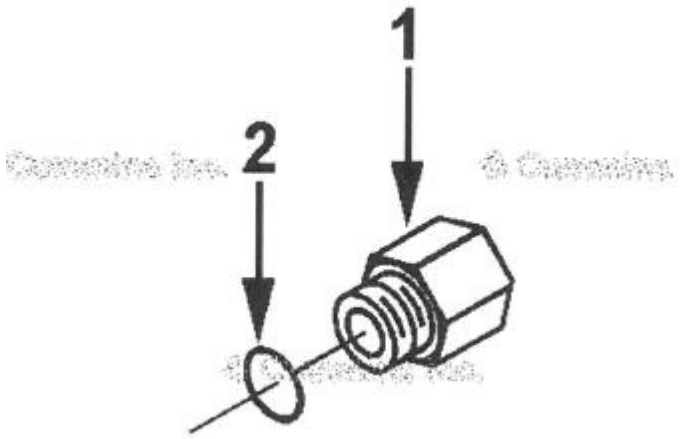
COMPRESSOR COOLANT PLUMBING



Dry Systems® Technologies

COMPRESSOR COOLANT PLUMBING

Item	Qty	Part Number	Description
1	1	M321-501-63	Connector, Male
2	1	M321-501-64	Elbow, Male Adapter
3	1	M321-501-65	Tube, Cpr Water Inlet
	1	M321-501-66	Tee, Plain Adapter
4	2	M321-501-67	Seal, O-Ring
5	1	M321-501-68	Plug, Pipe
6	1	(M321-501-69)	Tee, Plain Adapter
7	1	M321-501-70	Tube, Cpr Water Outlet
	1	M321-501-71	Elbow, Male adapter
8	1	(M321-501-72)	Elbow, Male adapter
9	1	M508-558-01	Seal



Item	Qty	Part Number	Description
	1	M321-501-73	Union, Female Adapter
1	1	(M321-501-74)	Union, Female Adapter
2	1	M321-501-75	Seal, O-Ring

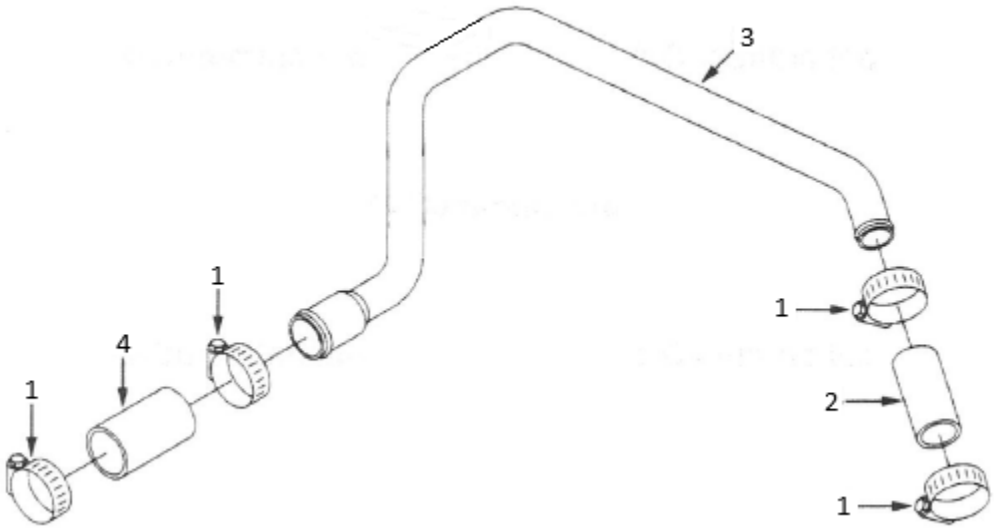
Dry Systems® Technologies

COOLANT HEATER STARTING AID

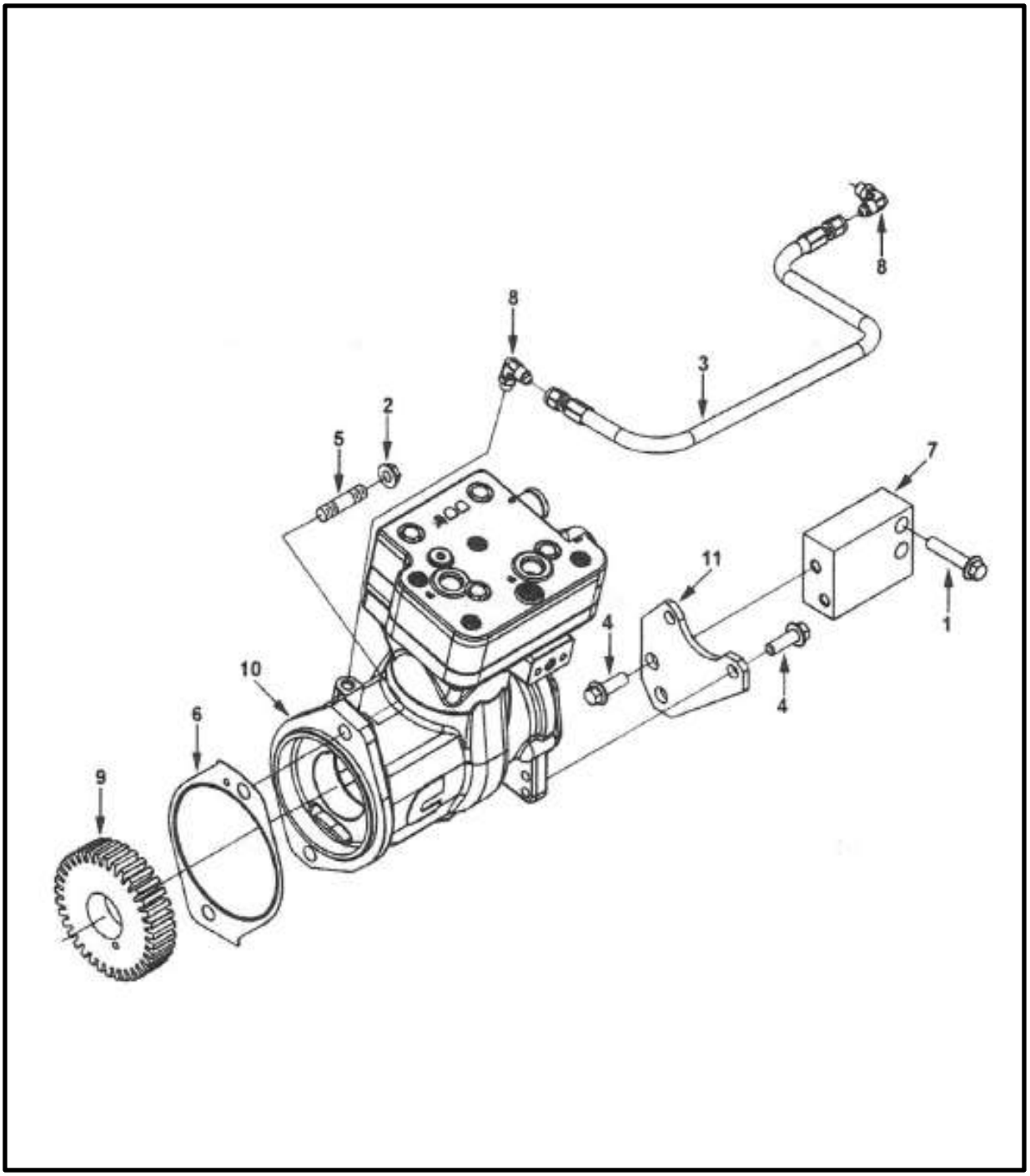
Item	Qty	Part Number	Description
1	1	M321-509-09	Plug, Pipe

Dry Systems® Technologies

AIR COMPRESSOR INLET PLUMBING



Item	Qty	Part Number	Description
1	4	M600-730-01	Clamp, Hose
2	1	M250-622-01	Hose, Plain, Upper
3	1	M250-206-02	Tube, Compressor Air Inlet
4	1	M250-622-02	Hose, Plain, Lower


8
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9

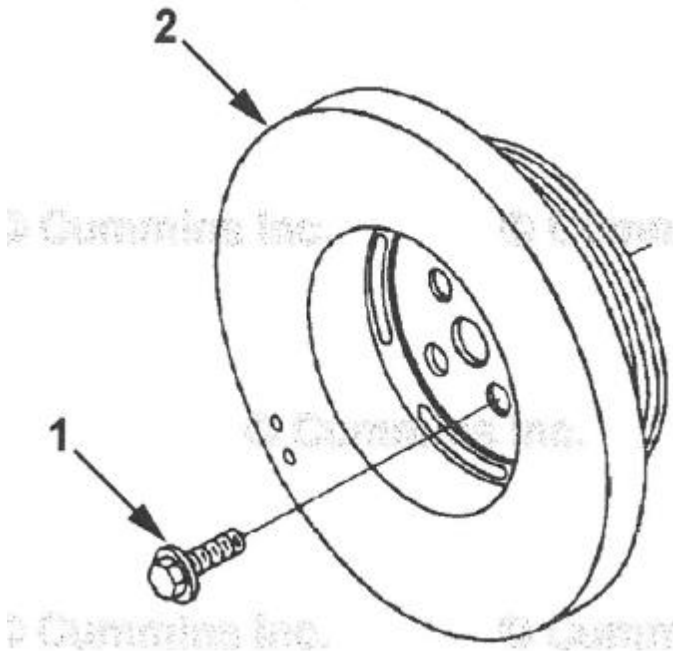
Dry Systems® Technologies

AIR COMPRESSOR

Item	Qty	Part Number	Description	
1	2	M250-623-01	Screw, Hex Flange Head Cap	
2	2	M509-531-01	Nut, Hexagon Flange	
3	1	M321-501-76	Hose, Flexible	
4	4	M321-501-77	Screw, Hex Flange Head Cap	
5	2	M321-501-78	Stud	
6	1	M506-570-01	Gasket, Hydraulic Pump	
7	1	M321-501-79	Spacer, Mounting	
8	1	M321-501-80	Elbow, Plain Union	
	1	M250-591-02	Compressor, Air	(includes # 9)
9	1	M250-591-03	Gear, Accessory Drive	
10	1	M250-591-01	Compressor, Air	
11	1	M321-501-81	Brace, Air Compressor	
			COMPRESSOR SERVICE KITS	
	1	M250-591-04	Kit, Air Compressor Repair	
	1	M250-591-05	Kit, Rear Seal & Adapter	
	1	M250-591-06	Kit, Gasket	
	1	M250-591-07	Adapter, Spline	

Dry Systems® Technologies

VIBRATION DAMPER



Item	Qty	Part Number	Description
1	4	M321-501-82	Screw, Hex Flange Head Cap
2	1	M321-501-83	Damper, Vibration

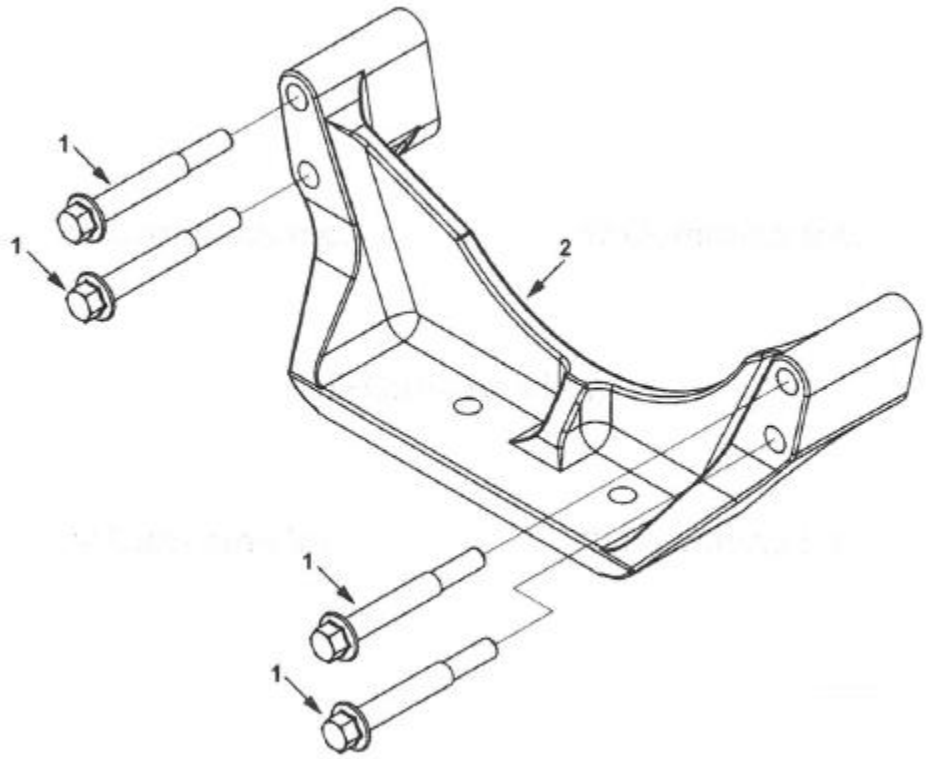
Dry Systems® Technologies

THERMOSTAT

Item	Qty	Part Number	Description	
1	1	M504-517-01	Thermostat	(160 F Thermostat)

Dry Systems® Technologies

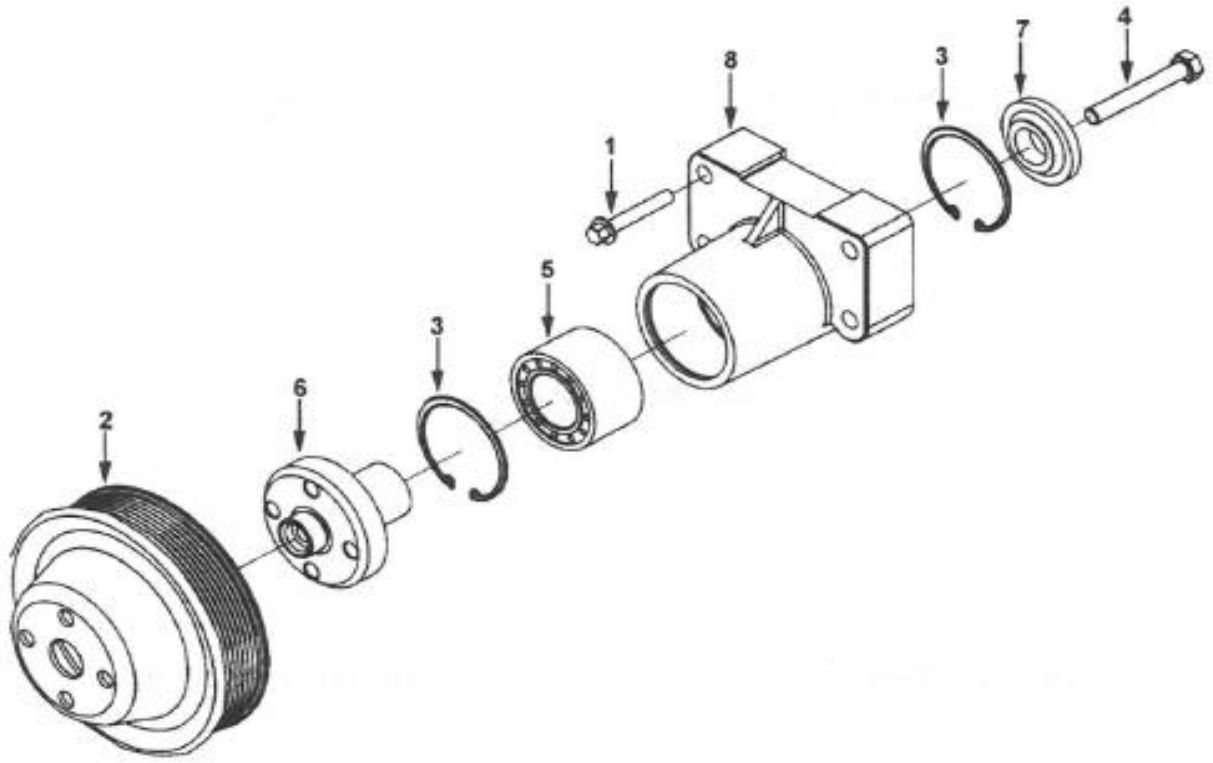
FRONT ENGINE SUPPORT



Item	Qty	Part Number	Description
1	4	M321-501-84	Screw, Hex Flange Head Cap
2	1	M321-501-85	Support, Front Engine

Dry Systems® Technologies

DRIVE FAN



NOT USED WITH M250-549-01 FAN CLUTCH ASSEMBLY

Item	Qty	Part Number	Description
1	4	M250-623-01	Screw, Hex Flange Head Cap
2	1	M503-528-01	Pulley, Fan
	1	M502-575-01	Support, Fan
3	2	M510-576-01	Ring, Retaining
4	1	M510-577-01	Screw, Hexagon Head Cap
5	1	M509-583-01	Bearing, Ball
6	1	M321-501-86	Hub, Fan
7	1	M510-578-01	Retainer, Fan Hub
8	1	(M321-501-87)	Support, Fan

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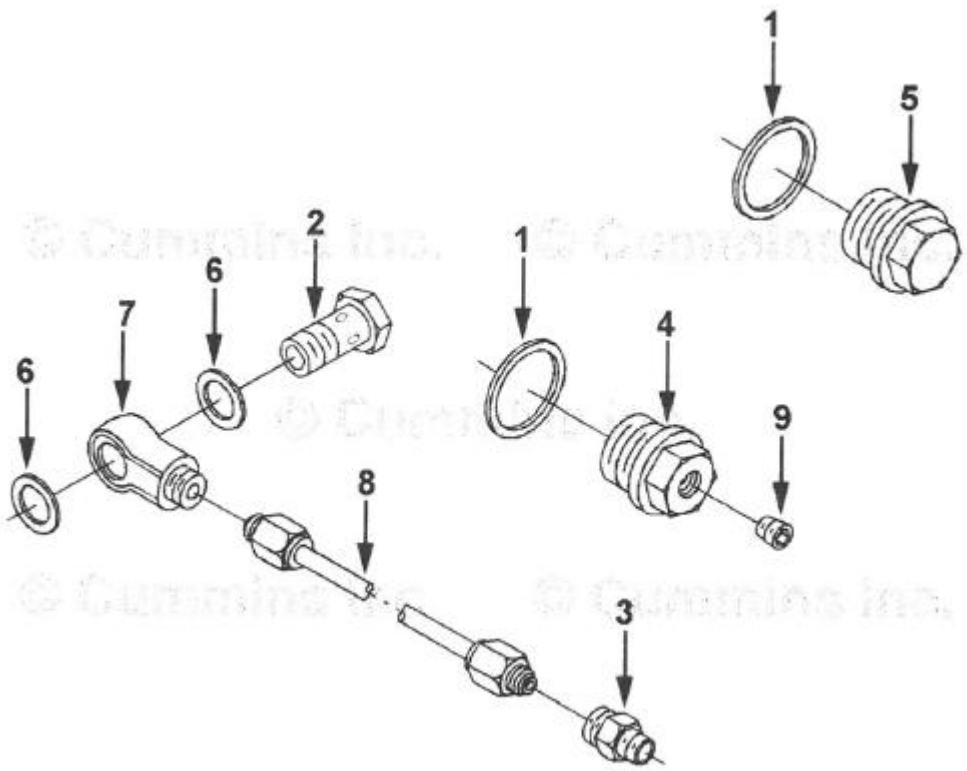
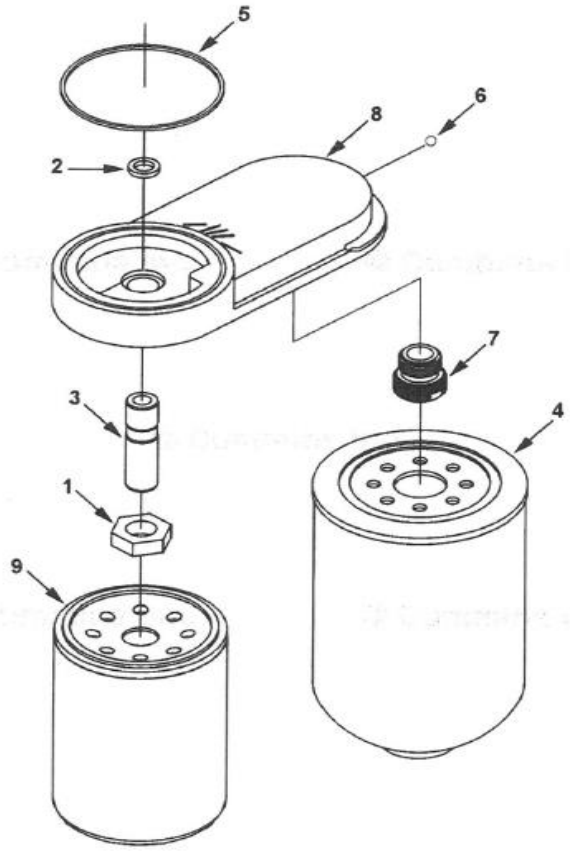
AIR FUEL CONTROL PLUMBING



Item	Qty	Part Number	Description
1	2	M321-501-88	Washer, Sealing
2	1	M506-533-01	Screw, Banjo Connector
3	1	M506-534-01	Connector, Male
4	1	M321-501-89	Plug, Threaded
5	1	M321-501-90	Plug, Threaded
6	2	M506-535-01	Washer, sealing
7	1	M506-536-01	Connector, Banjo
8	1	M506-537-01	Tube, Air Fuel Control
9	1	M321-501-91	Plug, Pipe

Dry Systems® Technologies

FUEL FILTER LOCATION



Item	Qty	Part Number	Description
1	1	M321-501-92	Nut, Regular Hexagon Jam
2	1	M250-528-01	Seal, Rectangual Ring
3	1	M321-501-93	Adapter, Filter Head
4	1	M250-575-01	Filter, Fuel Primary
5	1	M250-529-01	Seal, Rectangualr Ring
	1	M509-556-01	Head, Fuel Filter
6	1	(M321-501-94)	Ball
7	1	(M321-501-95)	Adapter, Filter Head
8	1	M321-501-96	Head, Fuel Filter
9	1	M250-576-01	Filter, Fuel Secondary

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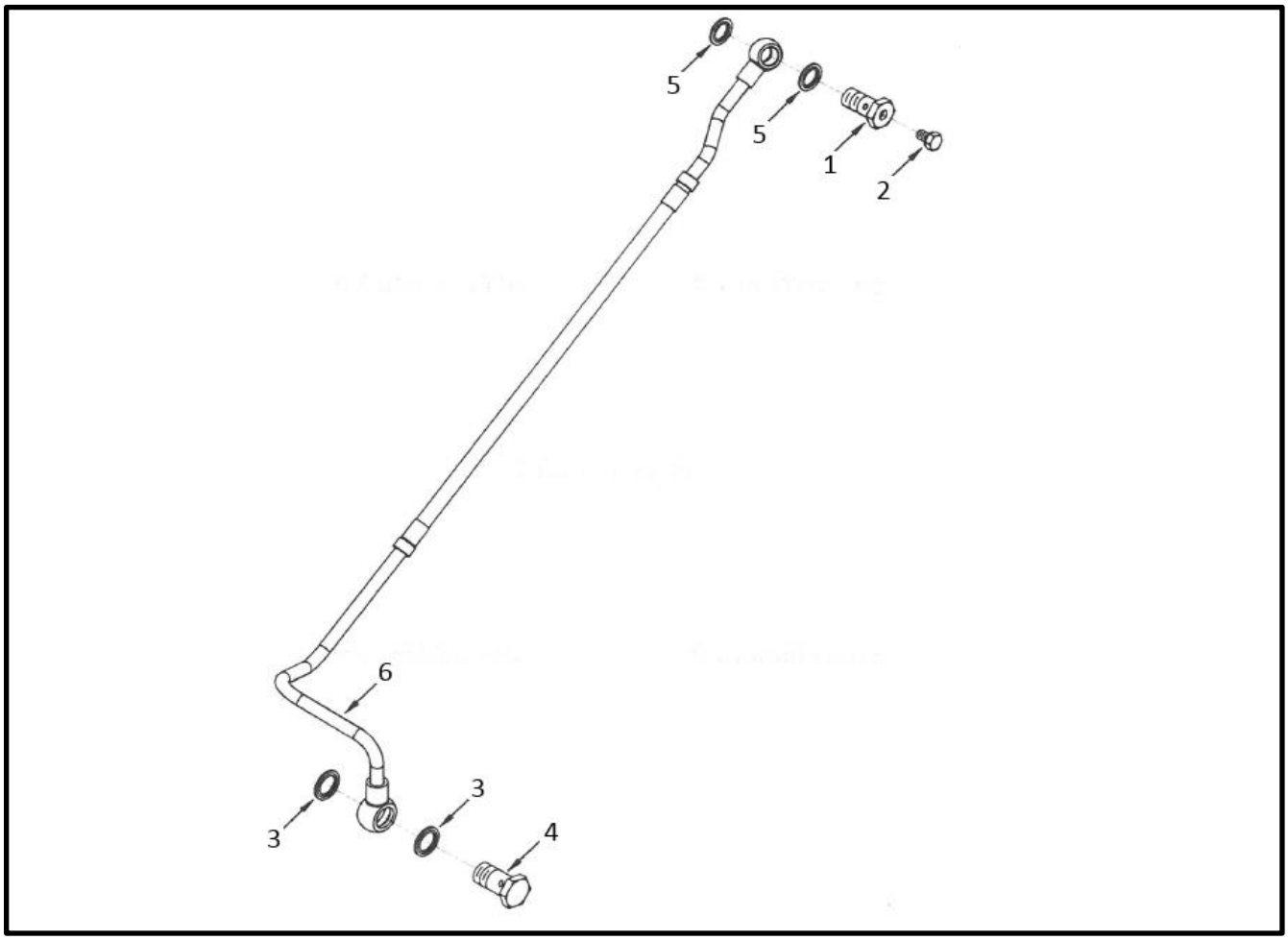
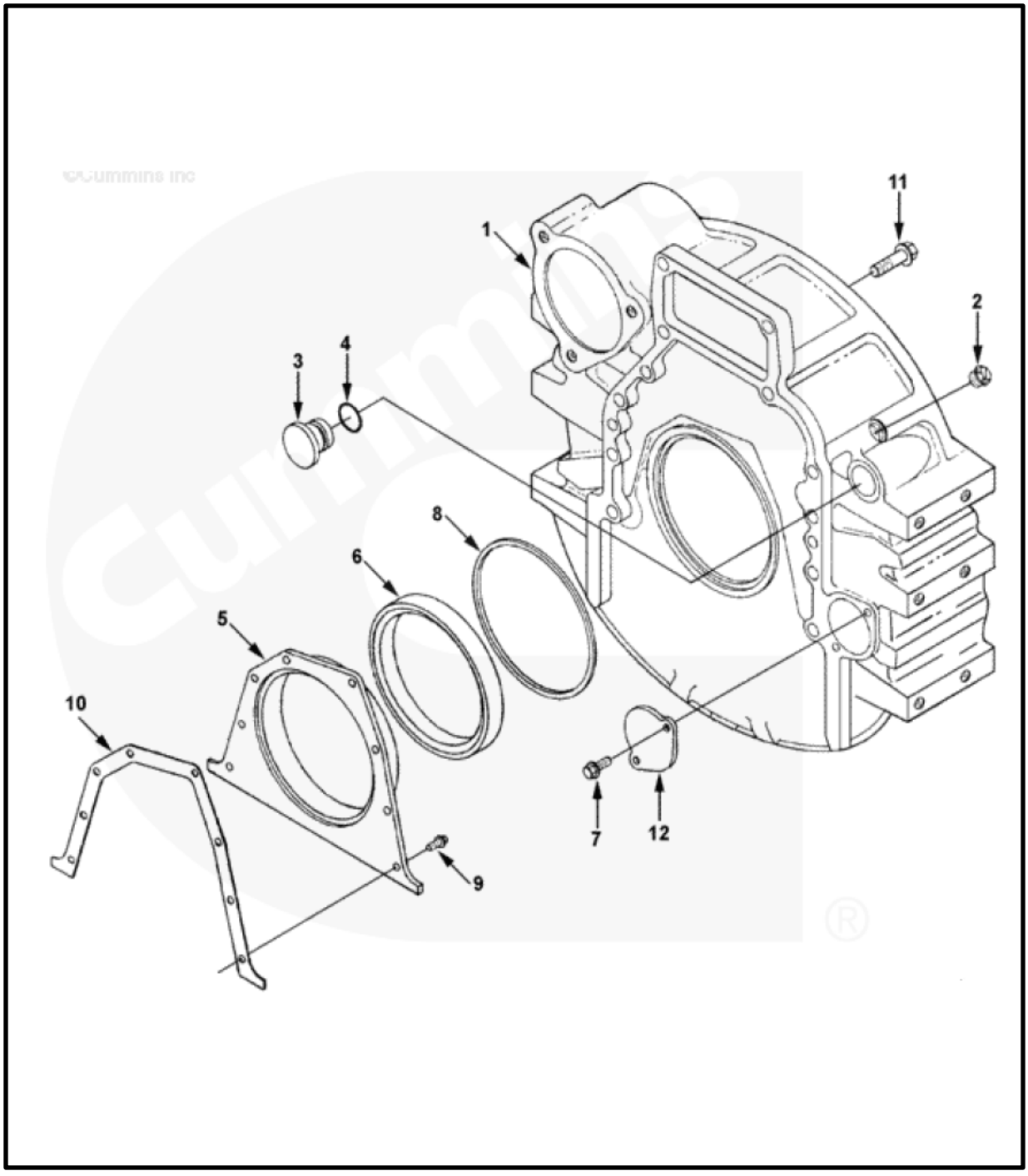
FUEL FILTER PLUMBING



Item	Qty	Part Number	Description
1	1	M509-572-01	Screw, Banjo Connector
2	1	M509-571-01	Screw, Captive Washer Cap
3	2	M509-514-01	Washer, Sealing
4	1	M509-518-01	Screw, Banjo Connector
5	2	M506-535-01	Washer, Sealing
6	1	M250-563-01	Tube, Fuel Supply

Dry Systems® Technologies

FLYWHEEL HOUSING



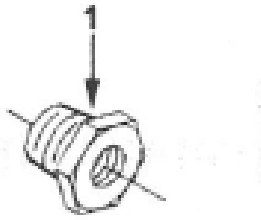
Dry Systems® Technologies

FLYWHEEL HOUSING

Item	Qty	Part Number	Description
1	1	M508-509-01	Housing, Flywheel
2	1	M321-501-98	Plug, Threaded
3	1	M509-510-01	Plug, O-Ring
4	1	M509-511-01	Seal, O-Ring
5	1	M321-501-97	Cover, Rear
6	1	M510-596-01	Seal, Oil
7	2	M321-501-285	Screw, Hex Head Cap
8	1	M321-501-99	Seal, Rectangular Ring
9	8	M321-501-61	Screw, Hex Flange Head Cap
10	1	M321-501-102	Gasket, Rear Cover
11	12	M321-501-100	Screw, Hex Flange Head Cap
12	1	M321-501-101	Plate, Cover
			SERVICE KIT
	A/R	M321-501-103	Rear Crankcase Service Kit

Dry Systems® Technologies

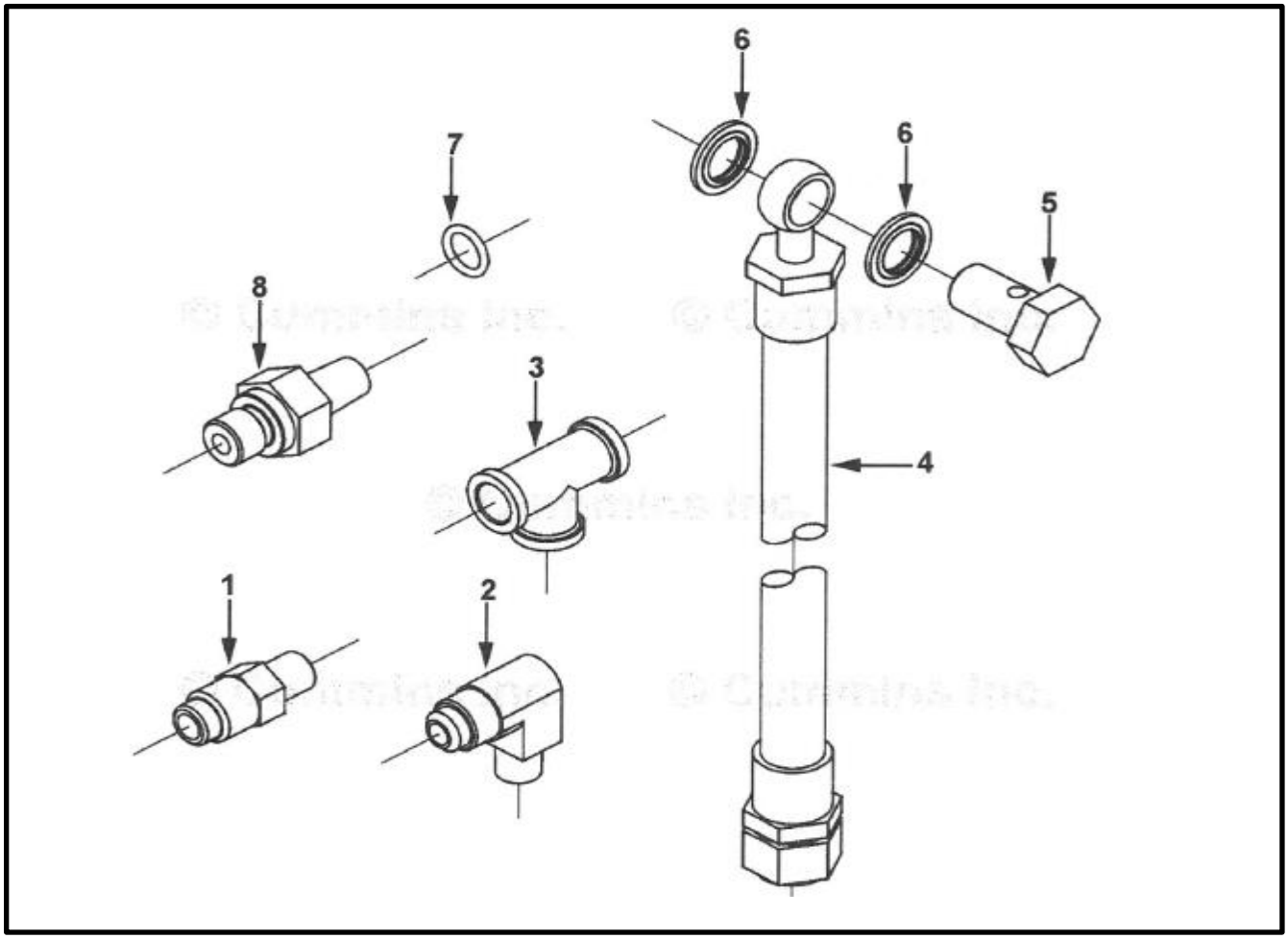
FUEL INLET FITTING



Item	Qty	Part Number	Description
1	1	M321-501-104	Bushing, Reducing Pipe

Dry Systems® Technologies

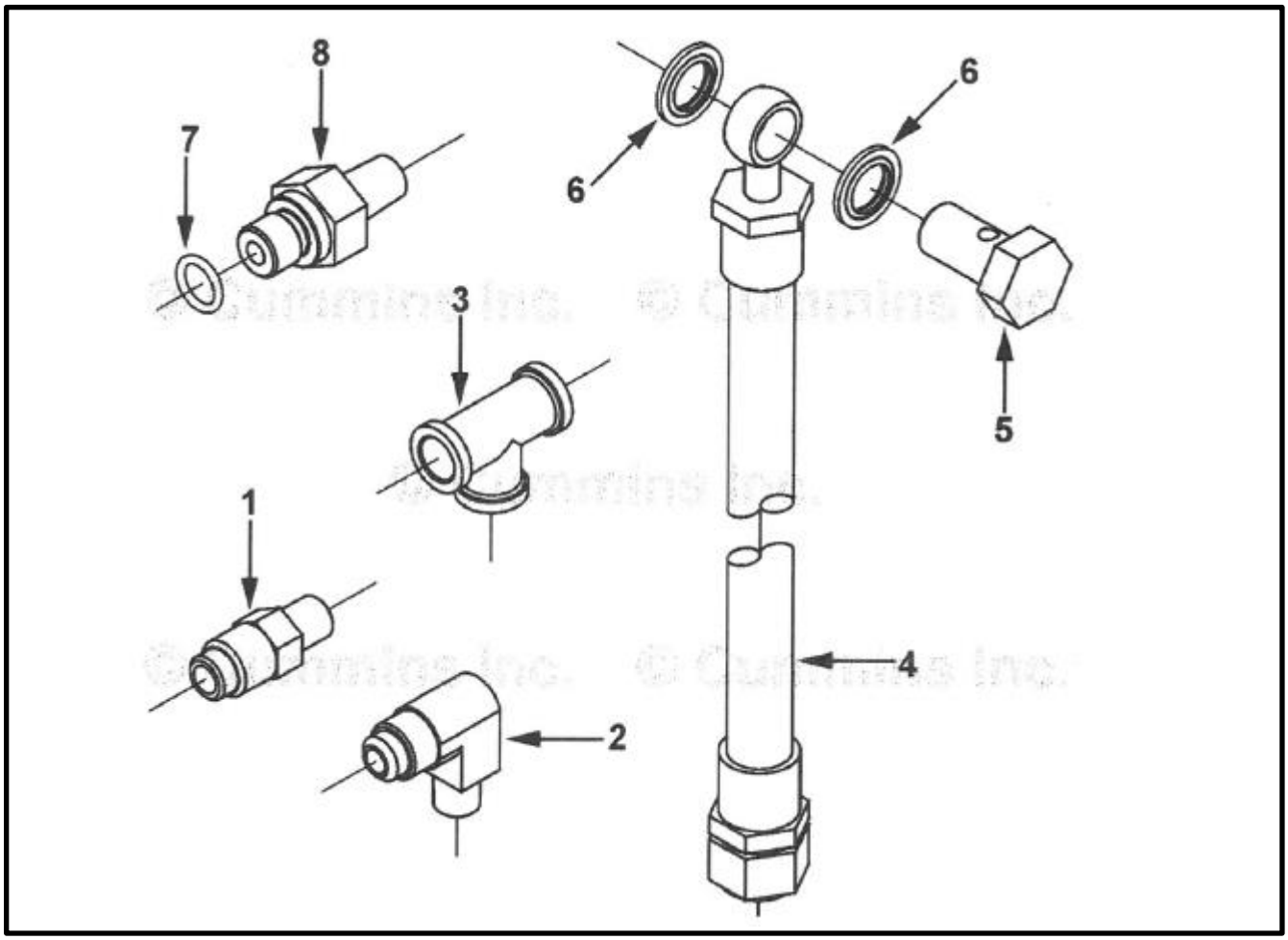
FUEL PUMP LUBE PLUMBING



Item	Qty	Part Number	Description
1	1	M321-501-105	Connector, Male
2	1	M321-501-106	Elbow, Male adapter
3	1	M321-501-107	Tee, Female Pipe
4	1	M508-543-01	Hose, Flexible
5	1	M508-544-01	Screw, Banjo Connector
6	2	M508-545-01	Washer, sealing
	1	M509-555-01	Connector, Male
7	1	M321-501-08	Seal, O-Ring
8	1	M321-501-108	Connector, Male

Dry Systems® Technologies

FUEL PUMP LBC PLUMBING



Item	Qty	Part Number	Description
1	1	M321-501-105	Connector, Male
2	1	M321-501-106	Elbow, Male adapter
3	1	M321-501-107	Tee, Female Pipe
4	1	M508-543-01	Hose, Flexible
5	1	M508-544-01	Screw, Banjo Connector
6	2	M508-545-01	Washer, sealing
	1	M509-555-01	Connector, Male
7	1	M321-501-08	Seal, O-Ring
8	1	M321-501-108	Connector, Male

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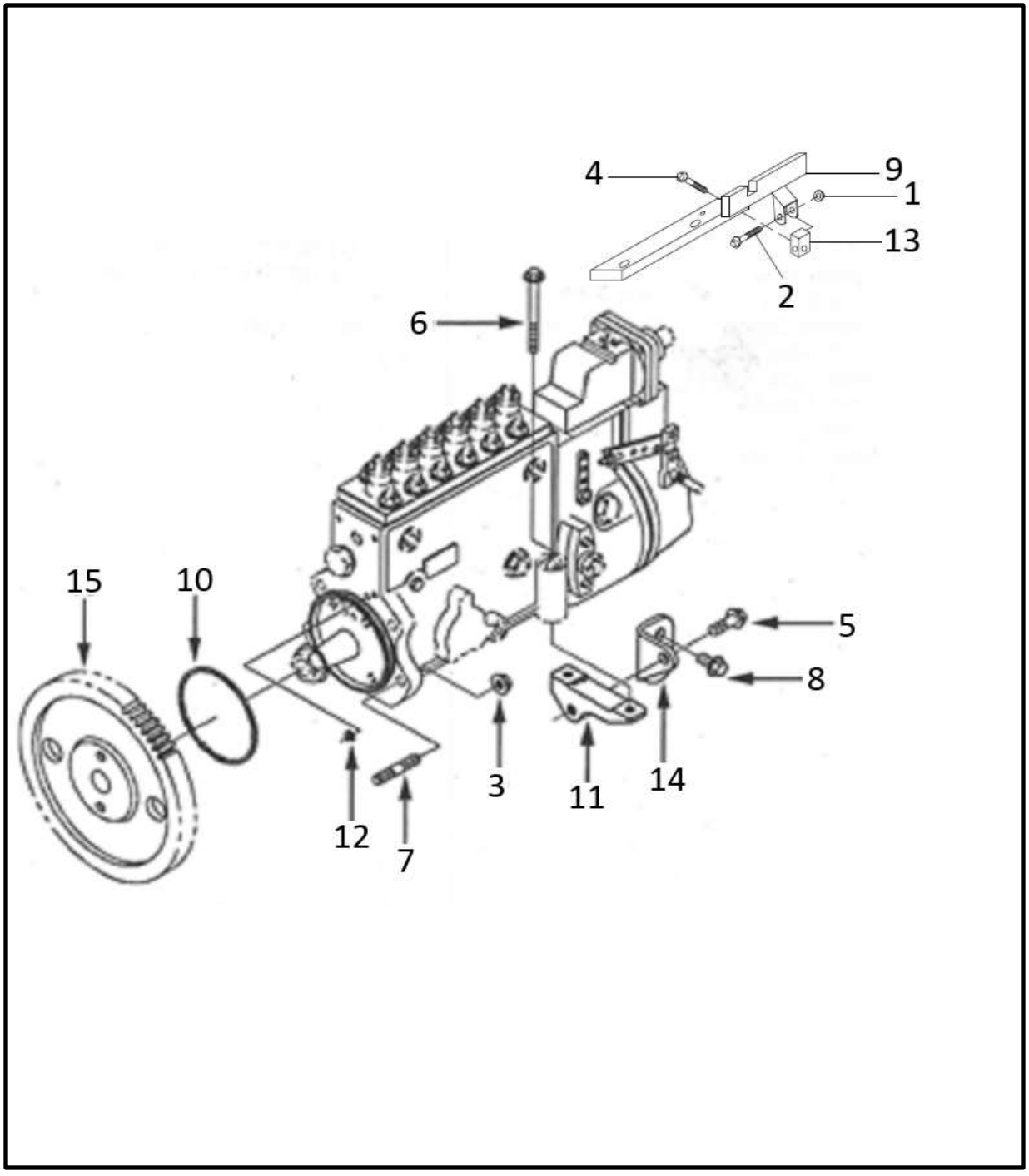
FUEL PUMP MOUNTING



Dry Systems® Technologies

FUEL PUMP MOUNTING

Item	Qty	Part Number	Description
		M329-501-01	Pump, Fuel Injection, Cummins C8.3 230 HP
1	1	M509-545-01	Nut, Hexagon Flange
2	1	M508-551-09	Screw, Hex Flange Head Cap
3	4	M321-501-109	Nut, Hexagon Flange
4	1	M321-501-110	Screw, Hex Flange Head Cap
5	2	M250-517-01	Screw, Hex Flange Head Cap
6	2	M321-501-111	Screw, Hex Flange Head Cap
7	4	M321-501-112	Stud
8	1	M321-501-113	Screw, Hex Flange Head Cap
9	1	M250-520-01	Bracket, Fuel Lines
10	1	M321-501-114	Seal, O-Ring
11	1	M321-501-115	Support, Fuel Pump
12	1	M321-501-116	Seal, Rectangular Ring
13	1	M250-619-01	Support, Fuel Pump
14	1	M321-501-117	Support, Fuel Pump
15	1	M321-501-118	Gear, Fuel Pump

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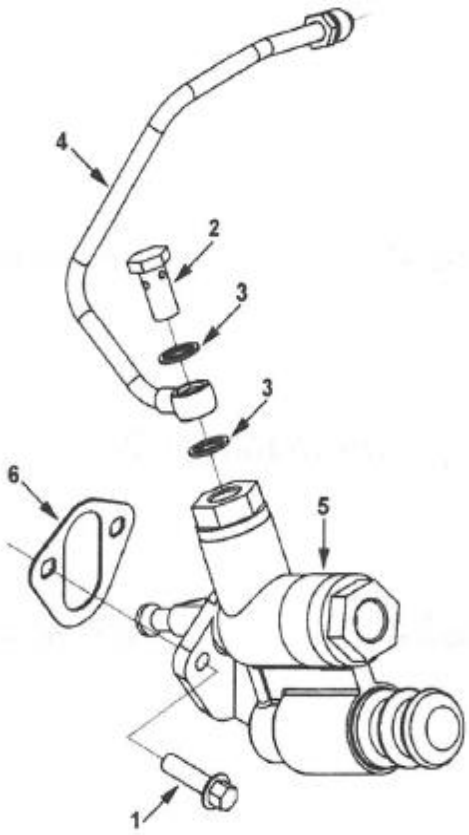
FUEL TRANSFER PUMP



Item	Qty	Part Number	Description
1	2	M321-501-119	Screw, Hexagon Head Cap
2	1	M508-597-01	Screw, Banjo Connector
3	2	M506-535-01	Washer, Sealing
4	1	M508-612-01	Tube, Fuel Supply
5	1	M505-510-01	Pump, Fuel Transfer
6	1	M505-511-01	Gasket, Cover Plate

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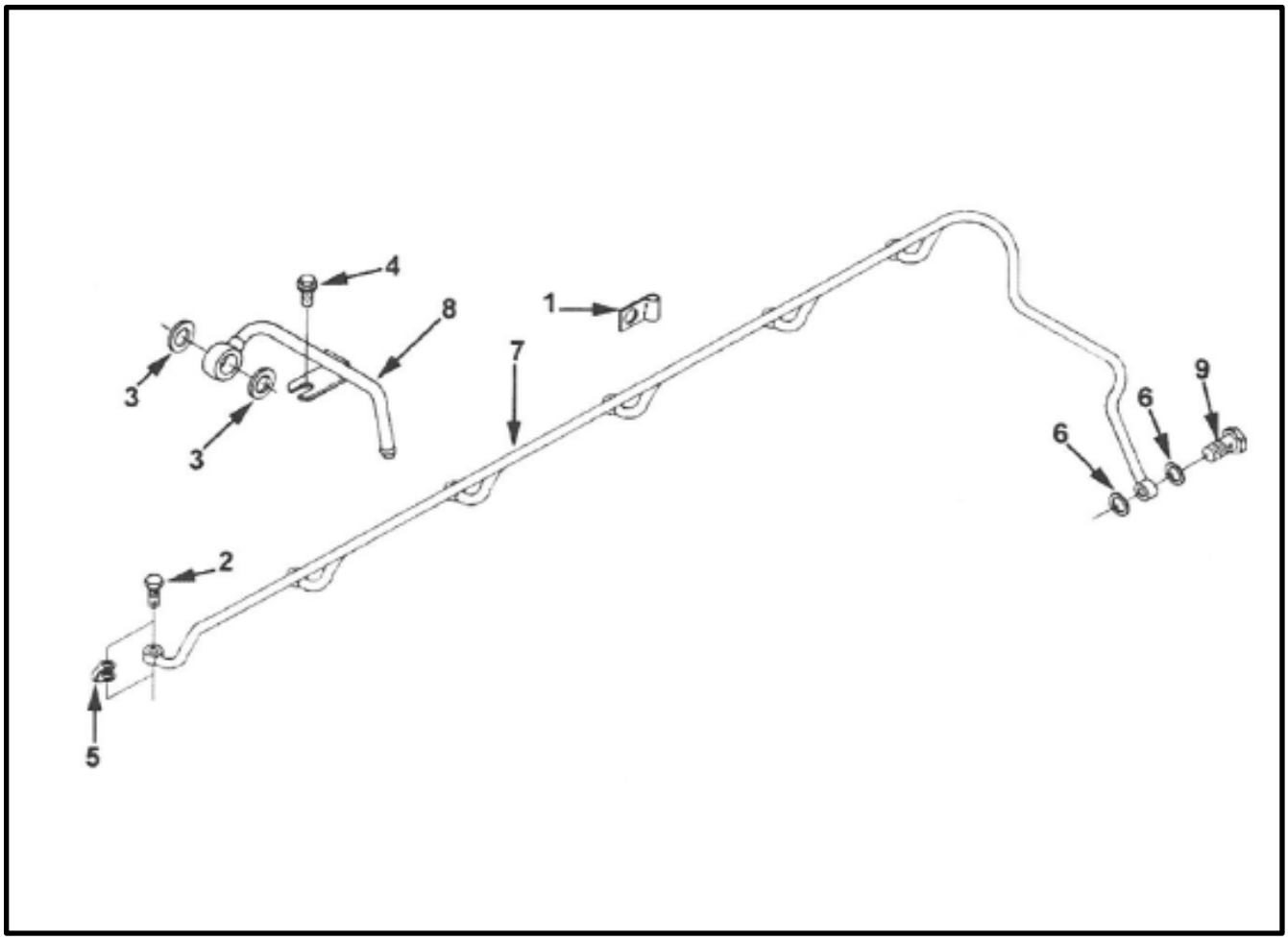
FUEL PLUMBING



Item	Qty	Part Number	Description
1	1	M509-512-01	Clip
2	6	M509-513-01	Screw, Banjo Connector
3	2	M509-514-01	Washer, Sealing
4	1	M509-515-01	Screw, Hex Flange Head Cap
5	6	M250-530-01	Seal, Banjo Connector
6	2	M250-531-01	Washer, Sealing
7	1	M505-527-01	Manifold, Fuel
8	1	M507-592-03	Tube, Fuel Drain
9	1	M507-594-01	Valve, Check
		M509-589-01	Overflow valve used with #8

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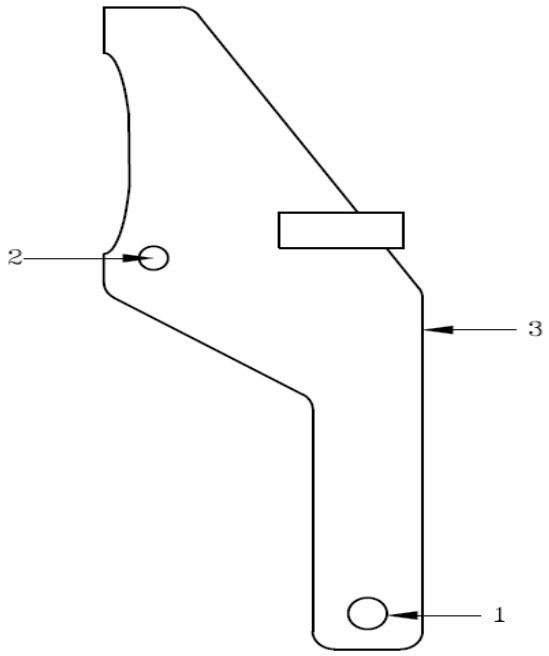
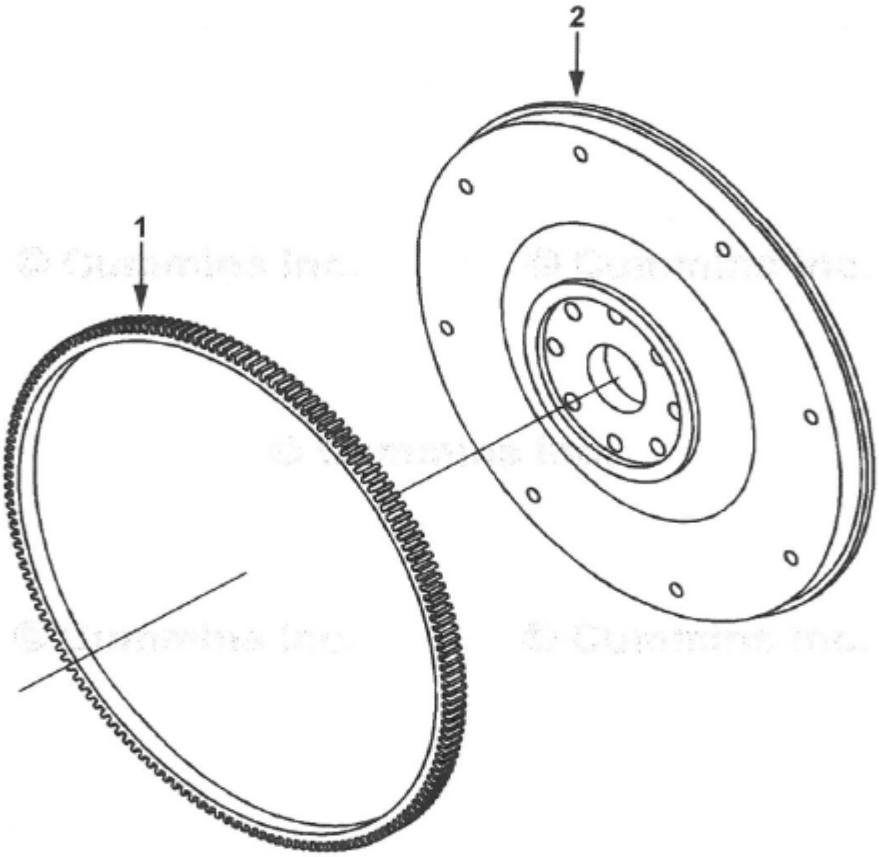
FUEL SHUTOFF VALVE

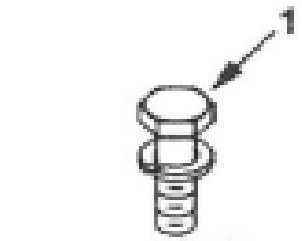


Item	Qty	Part Number	Description
1	1	M250-517-01	Screw, Hex Flange Head Cap
2	1	M250-514-01	Screw, Hex Flange Head Cap
3	1	M250-519-01	Mounting Bracket, Shut Down

FLYWHEEL



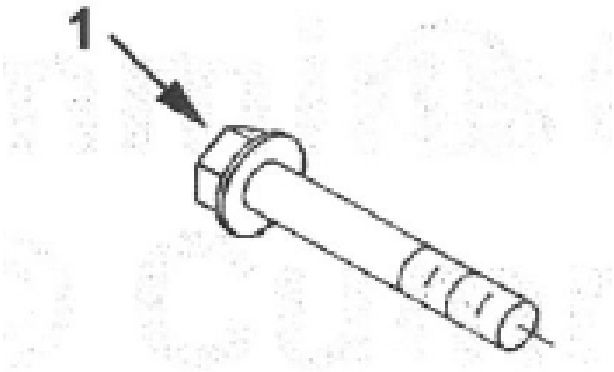
Item	Qty	Part Number	Description
	1	M321-501-288	Flywheel
1	1	M508-510-03	Gear, Flywheel Ring
2	1	M321-501-289	Flywheel



Item	Qty	Part Number	Description
1	8	M509-576-01	Screw, Captive Washer Cap

Dry Systems® Technologies

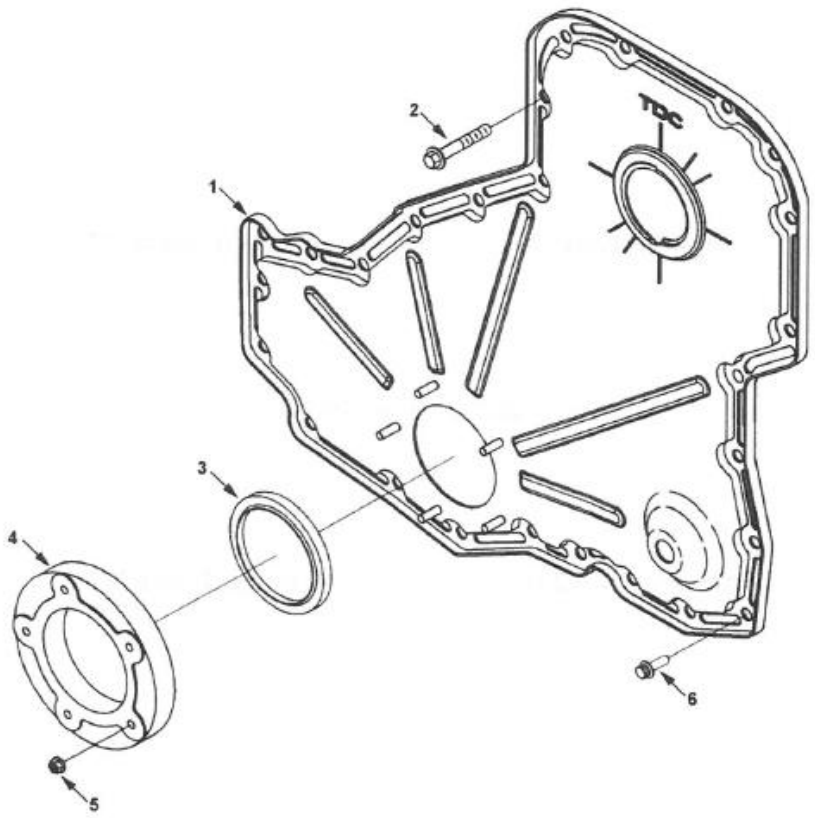
GEAR COVER MOUNTING



Item	Qty	Part Number	Description
1	2	M510-548-01	Screw, Studded Flange Cap

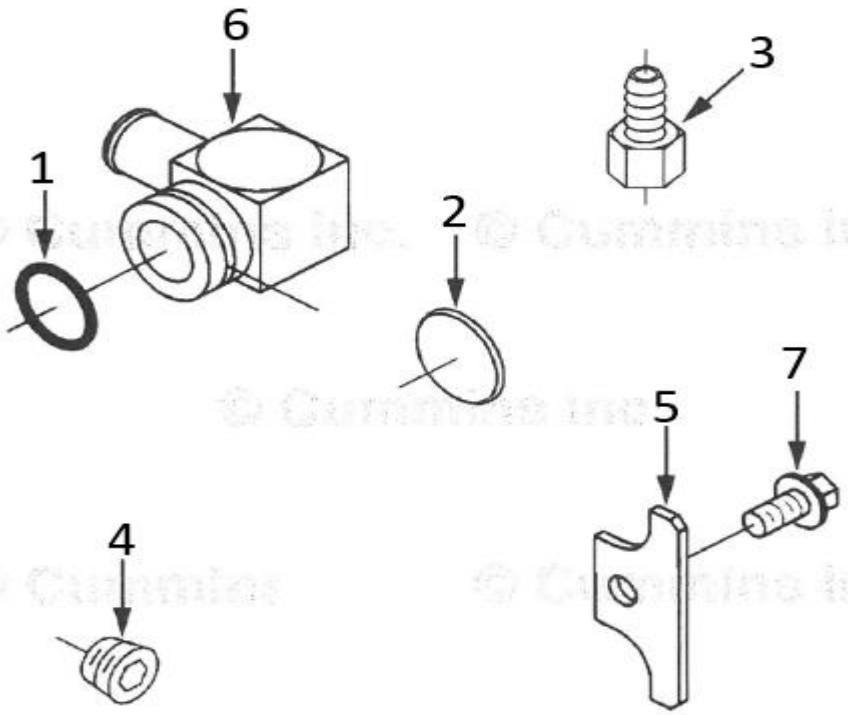
Dry Systems® Technologies

FRONT GEAR COVER



Item	Qty	Part Number	Description
1	1	M510-549-01	Cover, Gear
2	11	M510-550-01	Screw, Hex Flange Head Cap
3	1	M510-551-01	Seal, Oil
4	1	M321-501-121	Carrier, Seal
5	5	M321-501-122	Nut, Lock
6	13	M510-552-01	Screw, Twelve Point Cap

CABIN HEATER PLUMBING



Item	Qty	Part Number	Description
1	1	M321-501-123	Seal, O-Ring
2	1	M321-501-124	Plug, Expansion
3	1	M321-501-125	Coupling, Plain Hose
4	1	M321-501-126	Plug, Pipe
5	1	M321-501-127	Plate, Clamping
6	1	M321-501-128	Connection, Water Transfer
7	1	M250-532-04	Screw, Hex Flange Head Cap

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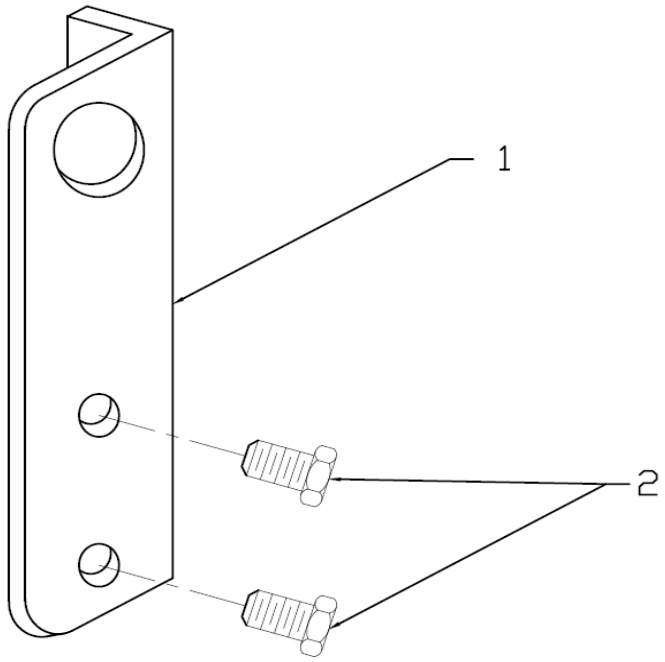
AIR INTAKE MANIFOLD

Item	Qty	Part Number	Description
	1	M321-501-03	Plug, Threaded, W/Seal
	1	M321-501-04	Seal, O-Ring
	18	M321-501-129	Screw, Hex Flange Head Cap
	1	M250-291-01	Gasket, Intake Manifold Cover
	1	M250-290-01	Cover, Intake Manifold

Dry Systems® Technologies

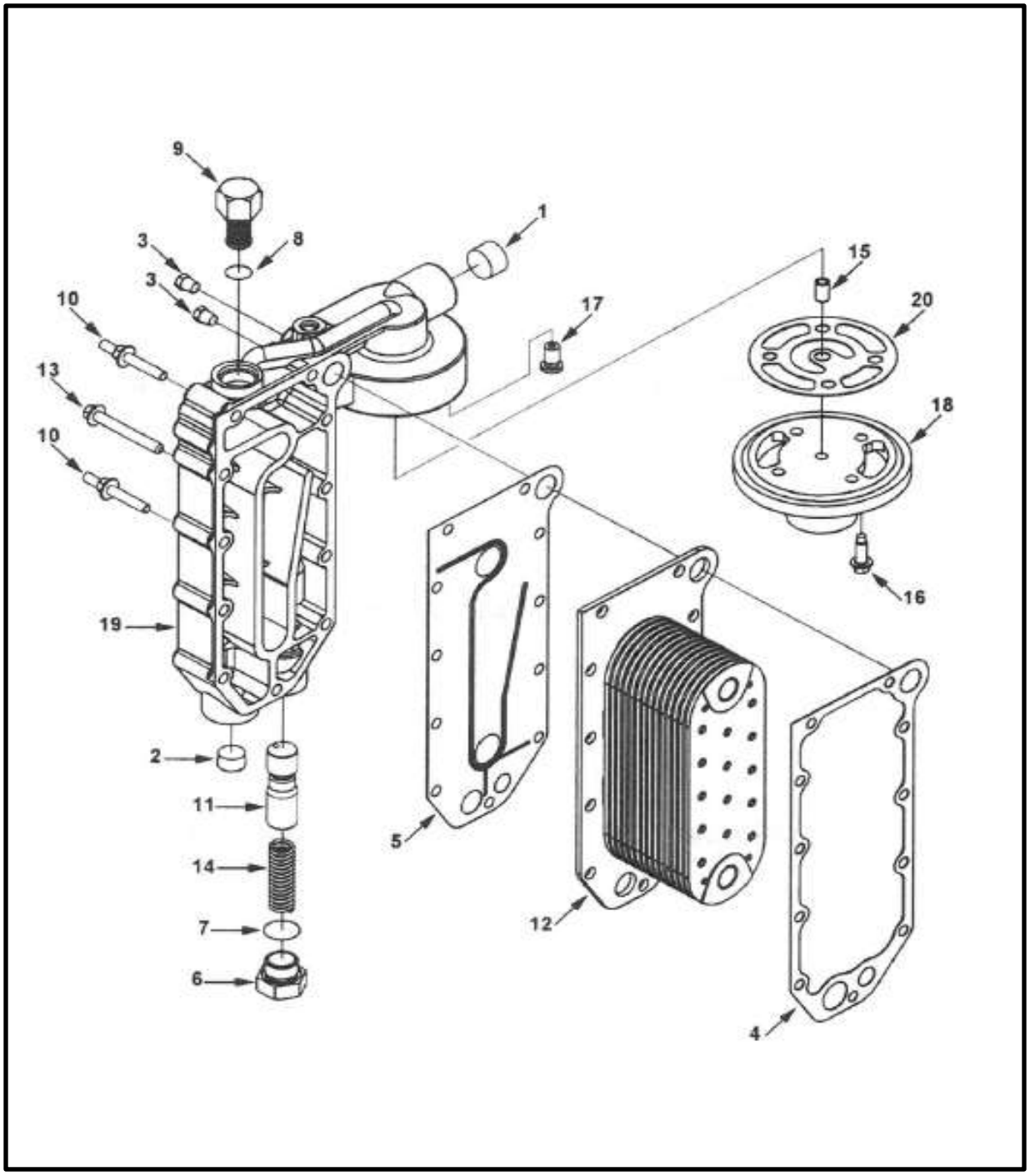
LIFTING ARRANGEMENT



Item	Qty	Part Number	Description
1	1	M250-211-01	Bracket, Lifting
2	2	M321-501-50	Screw, Hex Flange Head Cap

Dry Systems® Technologies

ENGINE OIL COOLER



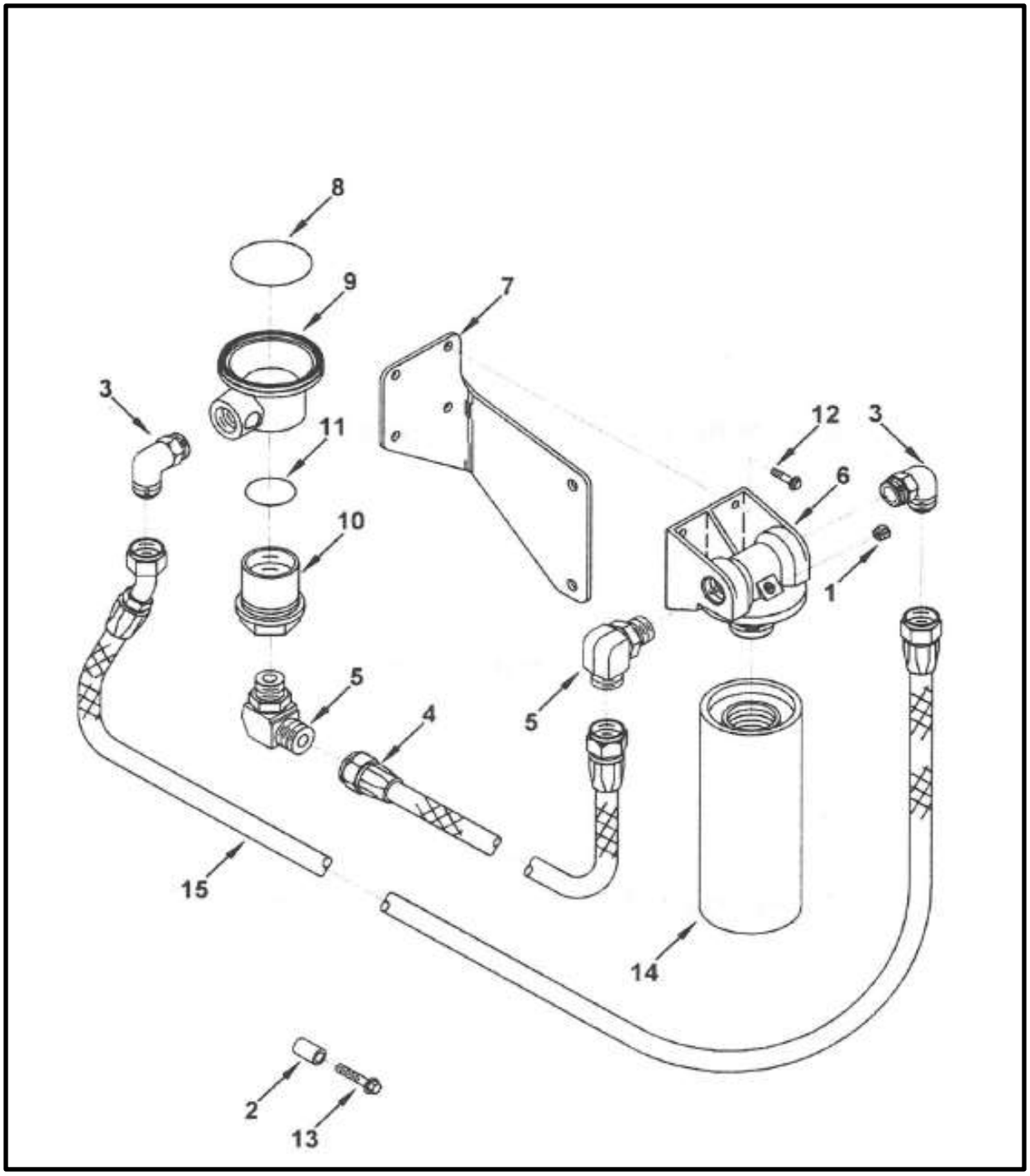
Dry Systems® Technologies

ENGINE OIL COOLER

Item	Qty	Part Number	Description
1	1	M321-501-130	Plug, Pipe
2	1	M321-501-126	Plug, Pipe
3	2	M321-501-131	Plug, Pipe
4	1	M509-580-01	Gasket, Oil Cooler Core
5	1	M509-581-01	Gasket, Lube Oil Cooler Cover
	1	M321-501-132	Plug, Threaded
6	1	M321-501-133	Plug, Threaded
7	1	M321-501-134	Seal, O-Ring
	1	M321-501-135	Valve, Bypass
8	1	M321-501-136	Seal, O-Ring
9	1	M321-501-137	Valve, Bypass
10	2	M321-501-138	Screw, Studded Flange Cap
11	1	M321-501-139	Plunger, PRS Regulator
12	1	M509-579-01	Core, Cooler
13	9	M321-501-140	Screw, Hex Flange Head Cap
14	1	M321-501-141	Spring, Compression
	1	M321-501-142	Head, Lube Oil Filter
15	1	M321-501-143	Dowel, Ring
16	4	M321-501-144	Screw, Hex Flange Head Cap
17	1	M508-551-18	Valve, Pressure Relief
18	1	M321-501-145	Head, Lube Oil Filter
19	1	M321-501-146	Cover, Lube Oil Cooler
20	1	M321-501-147	Gasket, Connection

Dry Systems® Technologies

FULL FLOW OIL FILTER



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FULL FLOW OIL FILTER

Item	Qty	Part Number	Description
1	1	M250-505-02	Plug, Pipe
2	1	M250-505-03	Spacer, Mounting
3	2	M250-505-04	Elbow,Male Union
4	1	M250-505-05	Hose, Flexible
5	2	M250-505-06	Elbow, Male Adapter
6	1	M250-505-07	Head, Lube Oil Filter
7	1	M250-505-08	Bracket, Filter
8	1	M250-505-09	Seal, O-Ring
9	1	M250-505-10	Cover, Filter Head
10	1	M250-505-11	Adapter, Filter Head
11	1	M250-505-12	Seal, O-Ring
12	4	M250-505-13	Screw, Hex Flange Head Cap
13	1	M250-505-14	Screw, Hex Flange Head Cap
14	1	M250-574-01	Element, Lube Oil Filter
15	1	M250-505-15	Hose, Flexible

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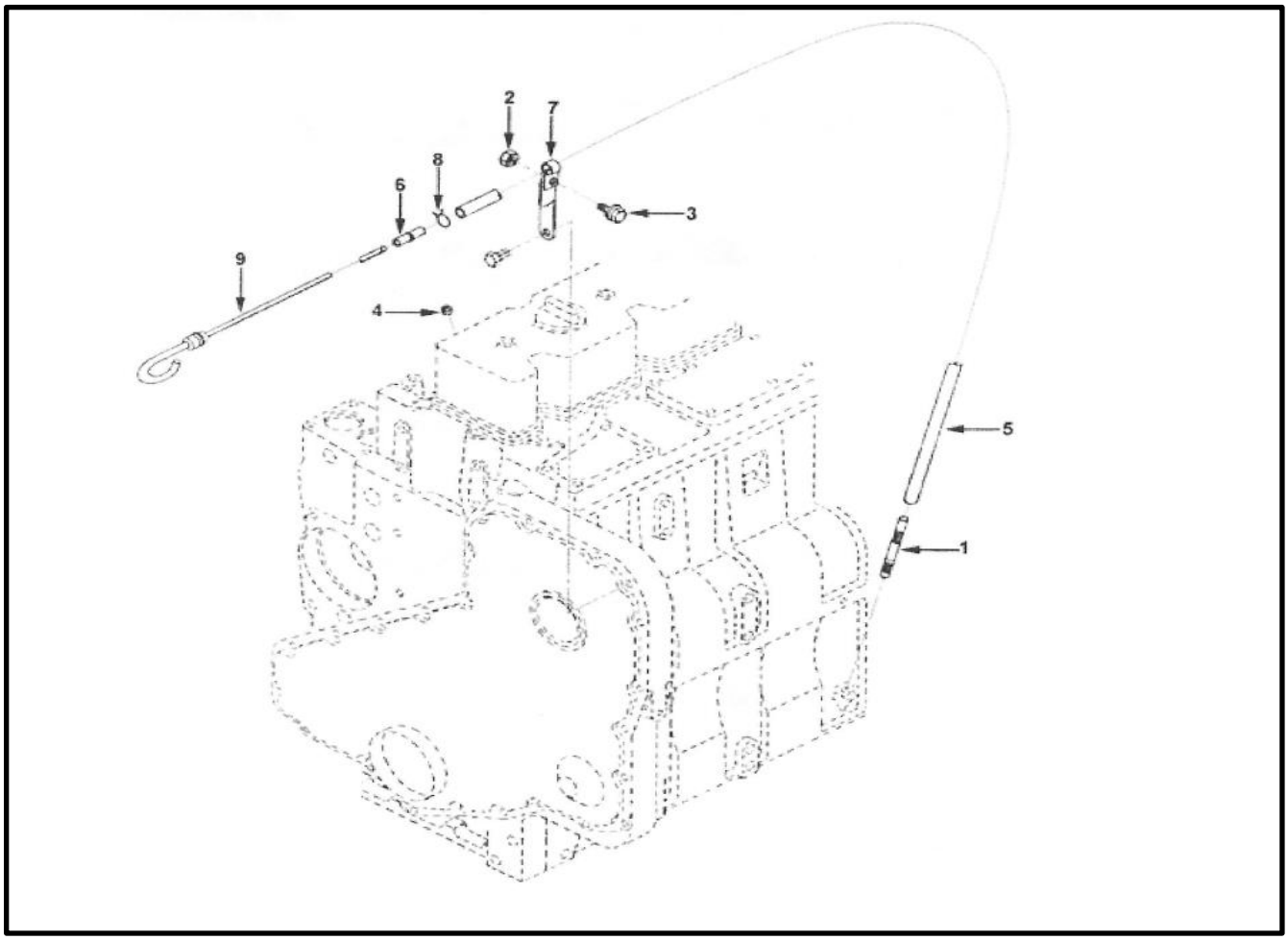
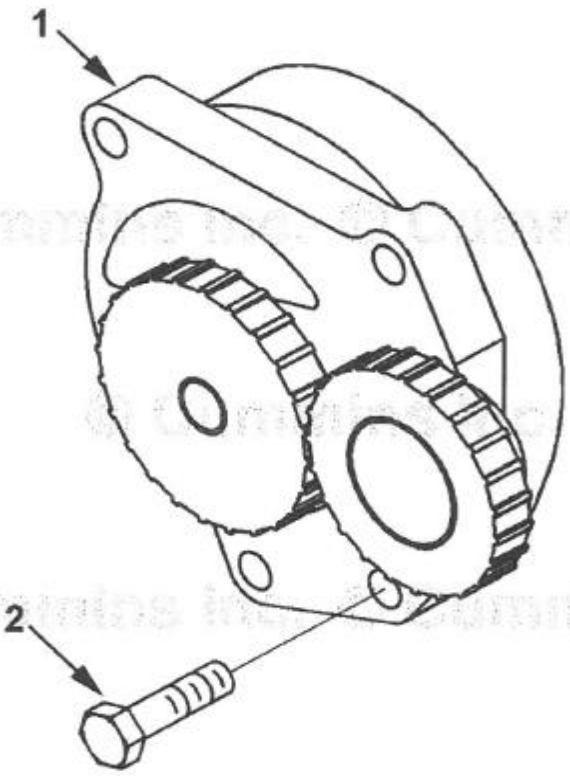
OIL LEVEL GAUGE



Item	Qty	Part Number	Description
	1	M250-532-01	Kit, Extended Dipstick
1	1	M250-532-02	Tube, Oil Gauge
2	1	M250-532-03	Nut, Regualr Hexagon
3	1	M250-532-04	Screw, Hex Flange Head Cap
4	1	M250-532-05	Plug, Expansion
5	1	M250-532-06	Tube, Oil Gauge
6	1	M250-532-07	End, Oil Gauge Tube
7	1	M250-532-08	Brace, Tube
8	2	M250-532-09	Clamp, Spring Hose
9	1	M250-532-10	Dipstick

LUBE OIL PUMP



Item	Qty	Part Number	Description
1	1	M321-501-148	Pump, Lubricating Oil
2	4	M321-501-149	Screw, Hexagon Head Cap

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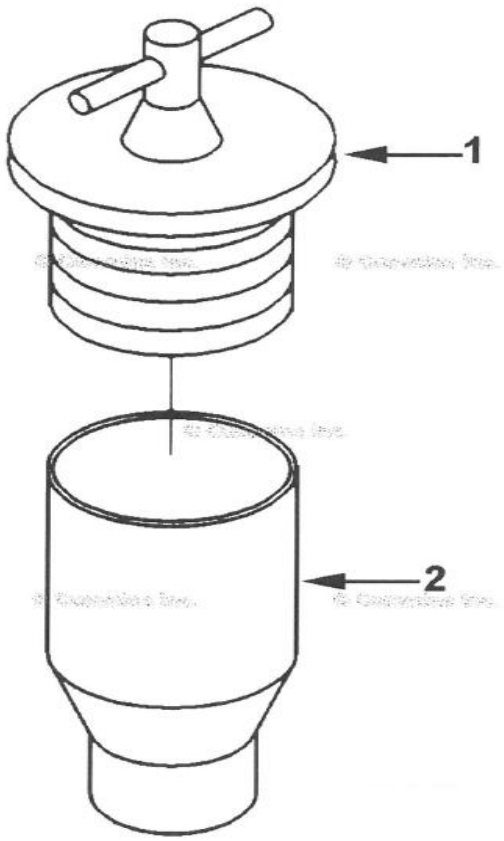
OIL FILLER ARRANGEMENT



Item	Qty	Part Number	Description
1	1	M250-533-02	Cap, Filler
2	1	M321-501-150	Tube, Oil Filler

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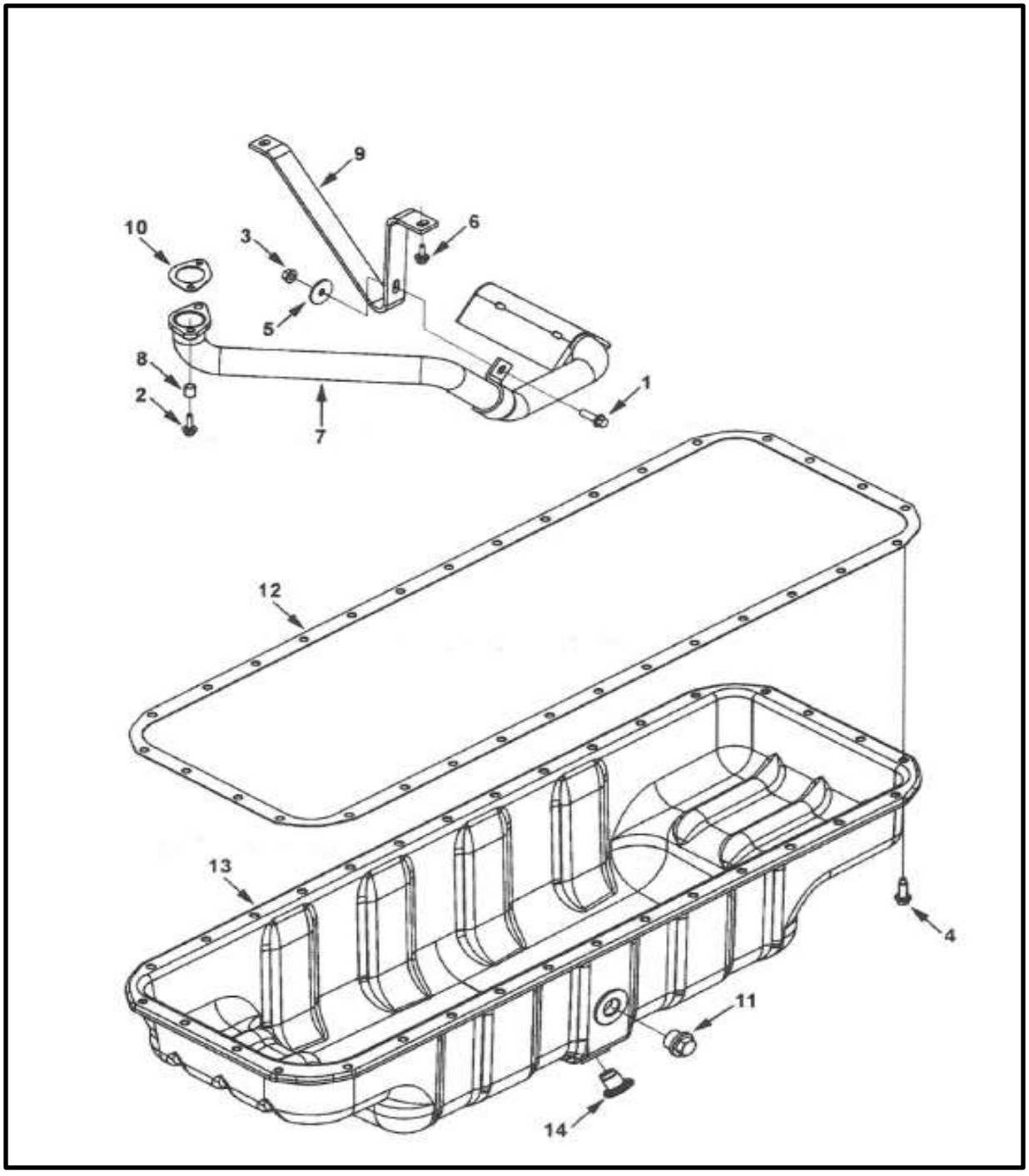
Technologies

OIL PAN



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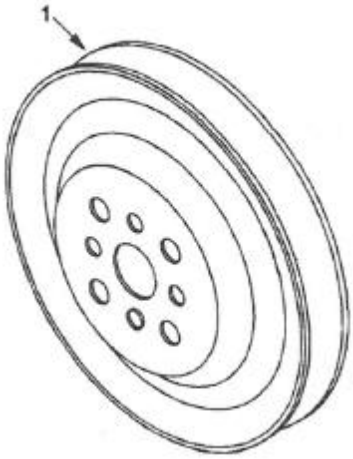
OIL PAN

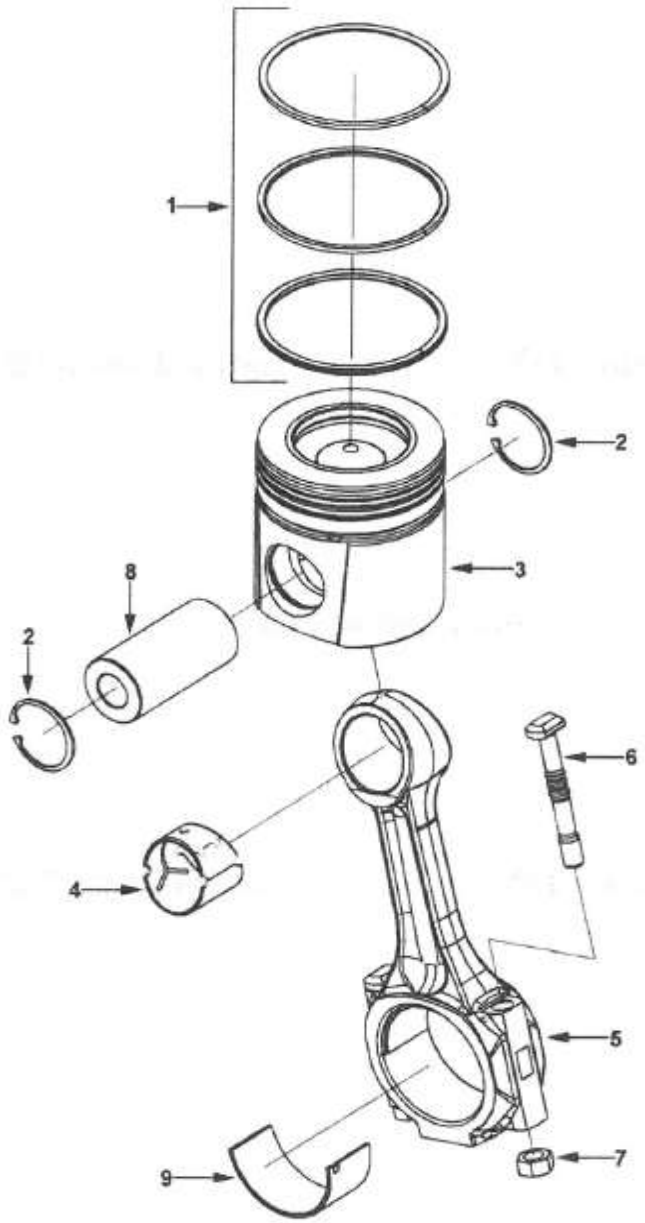
Item	Qty	Part Number	Description
1	2	M321-501-151	Screw, Hex Flange Head Cap
2	1	M321-501-152	Screw, Hex Flange Head Cap
3	1	M321-501-153	Nut, Hexagon Flange
4	32	M321-501-154	Screw, Hex Flange Head Cap
5	1	M321-501-155	Washer, Plain
6	2	M509-538-01	Screw, Hex Flange Head Cap
7	1	M509-507-01	Connection, Oil Suction
8	2	M321-501-156	Spacer, Mounting
9	1	M321-501-157	Brace, Tube
10	1	M509-506-01	Gasket, Oil Suction Connection
11	1	M321-501-158	Plug, Threaded
12	1	M509-508-01	Gasket, Oil Pan
13	1	M509-509-01	Pan, Oil
14	1	M321-501-159	Plug, Threaded
15	1	(M321-501-160)	Oil Drain Plug / Right Side (not shown)

Dry Systems® Technologies

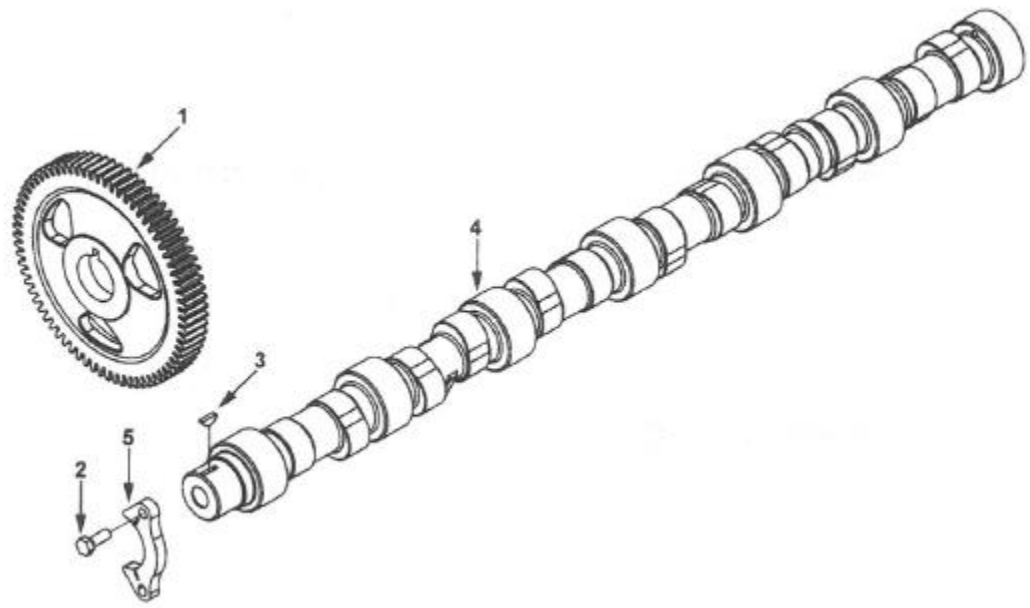
ACCESSORY DRIVE PULLEY



Item	Qty	Part Number	Description
1	1	M506-555-01	Pulley, Accessory Drive


1
2
3
8
2
6
4
5
9
7

Item	Qty	Part Number	Description	
	6	M321-501-161	Kit, Engine Piston	
1	1	M321-501-162	Set, Piston Ring	
	1	(M321-501-163)	Ring, Compression Piston	(sold in higher level assy/kit)
	1	(M321-501-164)	Ring, Oil Piston	(sold in higher level assy/kit)
	1	M321-501-165	Ring, Compression Piston	(sold in higher level assy/kit)
2	2	M321-501-166	Ring, Retaining	
3	1	(M321-501-167)	Piston, Engine	(sold in higher level assy/kit)
	6	M321-501-168	Rod, Engine Connecting	
4	1	M321-501-169	Bushing	
5	1	(M321-501-170)	Rod, Engine Connecting	
6	2	M321-501-171	Bolt, Connecting Rod	
7	2	M321-501-172	Nut, Connecting Rod	
8	6	M321-501-173	Pin, Piston	
9	12	M321-501-174	Bearing, Connecting Rod	(standard)



Item	Qty	Part Number	Description
1	1	M321-501-175	Gear, Camshaft
2	2	M321-501-176	Screw, Hexagon Head Cap
3	1	M321-501-177	Key, Plain Woodruff
4	1	M321-501-178	Camshaft
5	1	M321-501-179	Support, Camshaft Thrust

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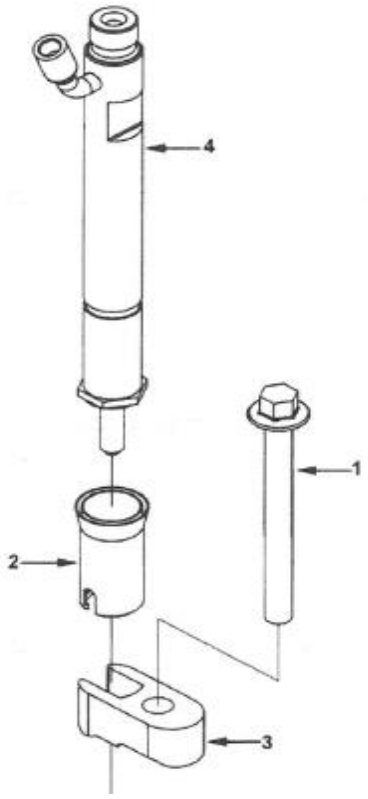
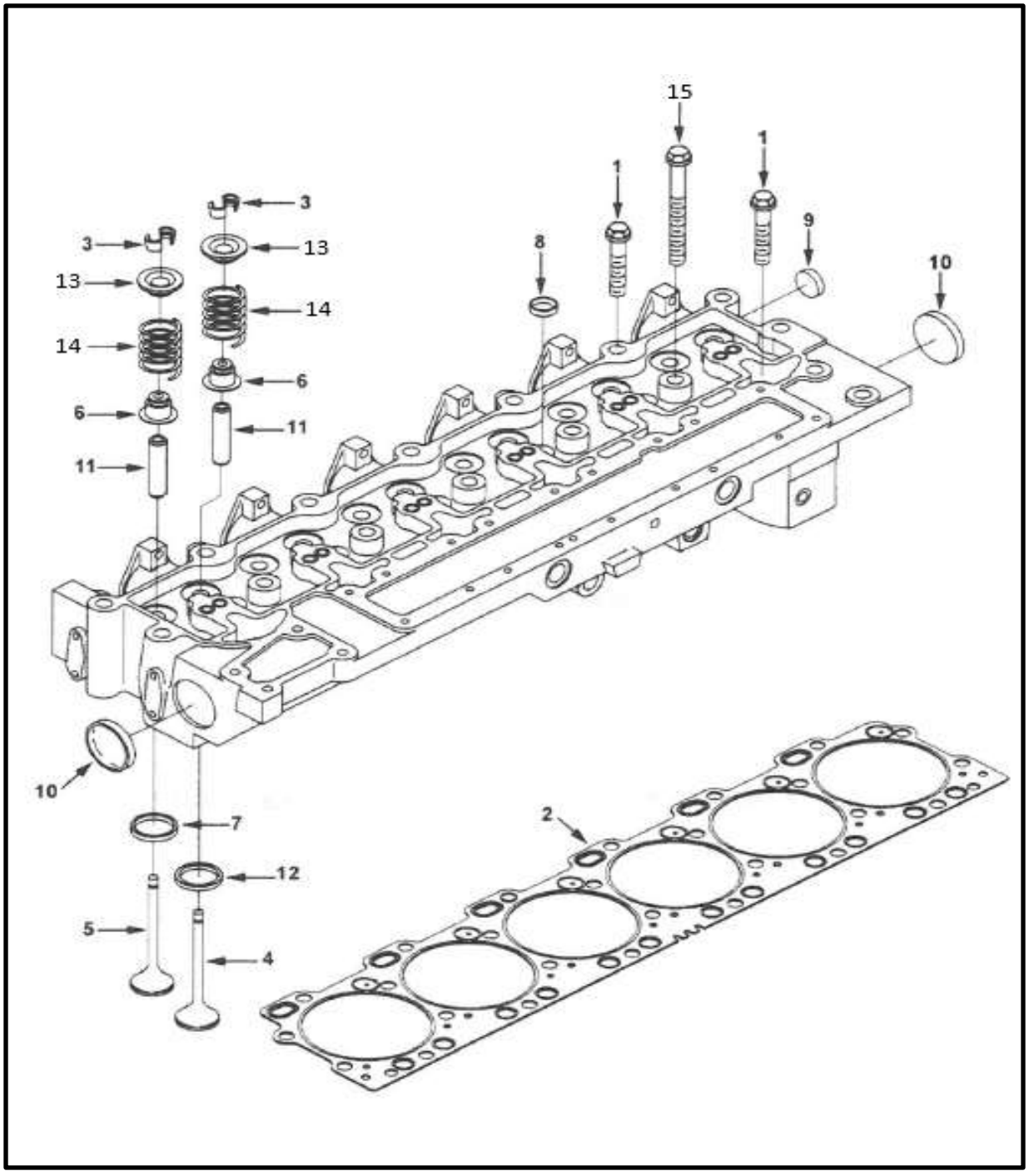
INJECTOR



Item	Qty	Part Number	Description
1	6	M509-516-01	Screw, Hex Flange Head Cap
2	6	M508-515-01	Seal, Injector
3	6	M509-517-01	Clamp, Injector
4	6	M329-206-01	Injector

Dry Systems® Technologies

CYLINDER HEAD



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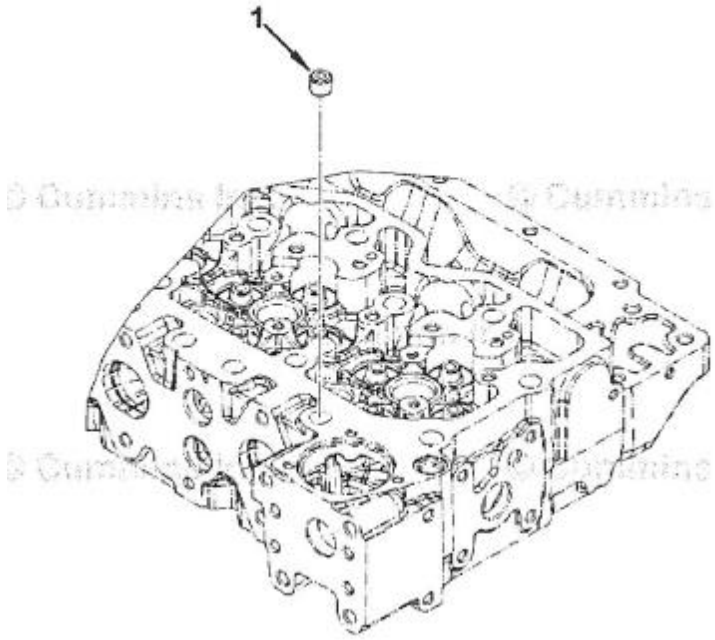
CYLINDER HEAD

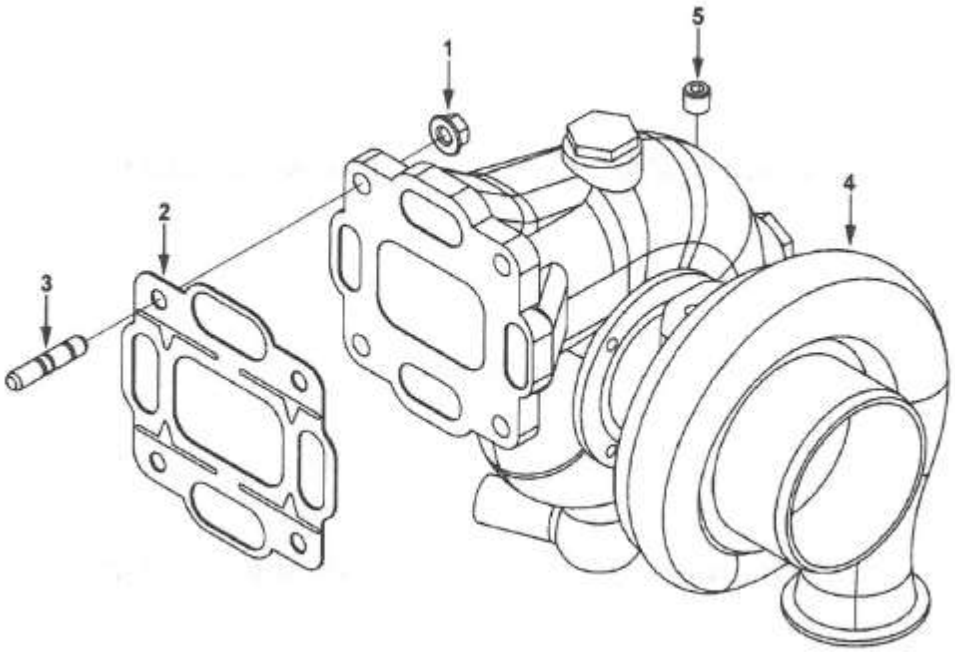
Item	Qty	Part Number	Description
		M329-106-01	Cylinder Head, Modified (complete head assy)
1	6	M250-547-01	Screw, Hex Flange Head Cap
2	1	M250-506-01	Gasket, Cylinder Head
3	24	M321-501-180	Collet, Valve
4	6	(M321-501-181)	Valve, Exhaust
5	6	(M321-501-182)	Valve, Intake
6	12	M321-501-183	Seal, Valve Stem
7	6	(M321-501-184)	Insert, Valve (standard)
8	5	(M321-501-185)	Plug, Expansion
9	1	M321-501-186	Plug, Expansion
10	2	M321-501-187	Plug, Expansion
11	12	M321-501-188	Guid, Valve Stem
12	6	M321-501-189	Insert, Valve (exhaust)
13	12	M321-501-190	Retainer, Valve Spring
14	12	M321-501-191	Spring, Valve (intake)
15	20	M250-503-01	Screw, Hex Flange Head Cap

Dry Systems® Technologies

CYLINDER HEAD PLUMBING



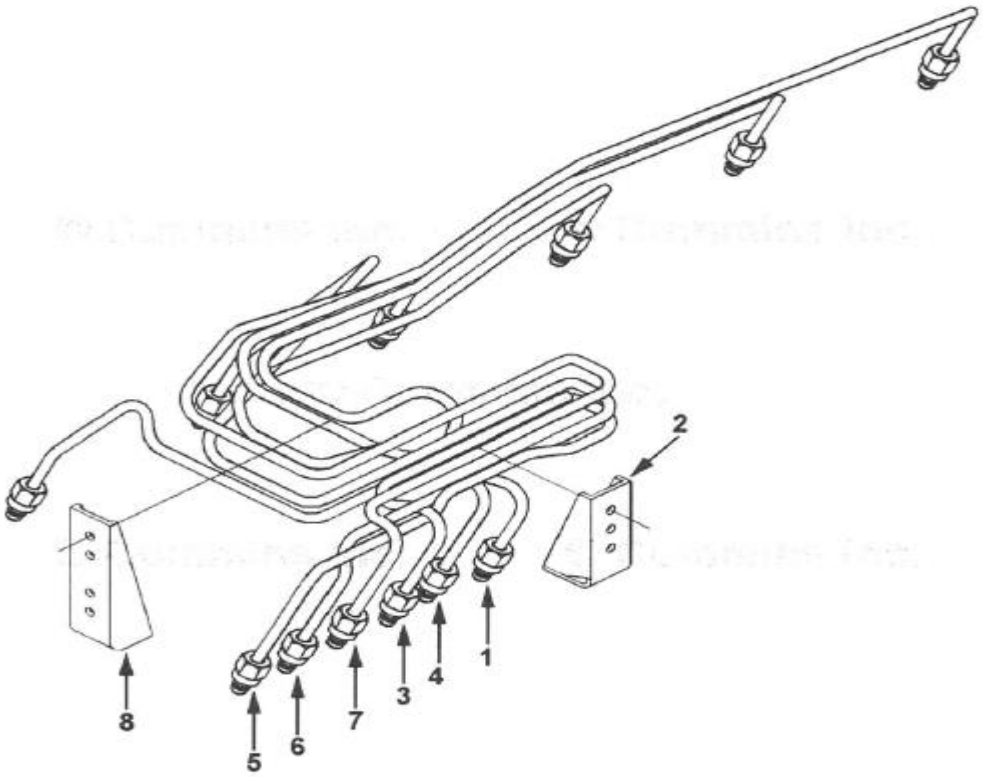
Item	Qty	Part Number	Description
1	1	M321-501-192	Plug, Pipe



Item	Qty	Part Number	Description
1	4	M600-109-01	Nut, Hexagon Flange
2	1	M250-218-01	Gasket, Turbocharger
3	4	M90-371-14	Stud
4	1	M329-101-31	Turbocharger, Assembly, Modified
5	2	M321-501-91	Plug, Pipe

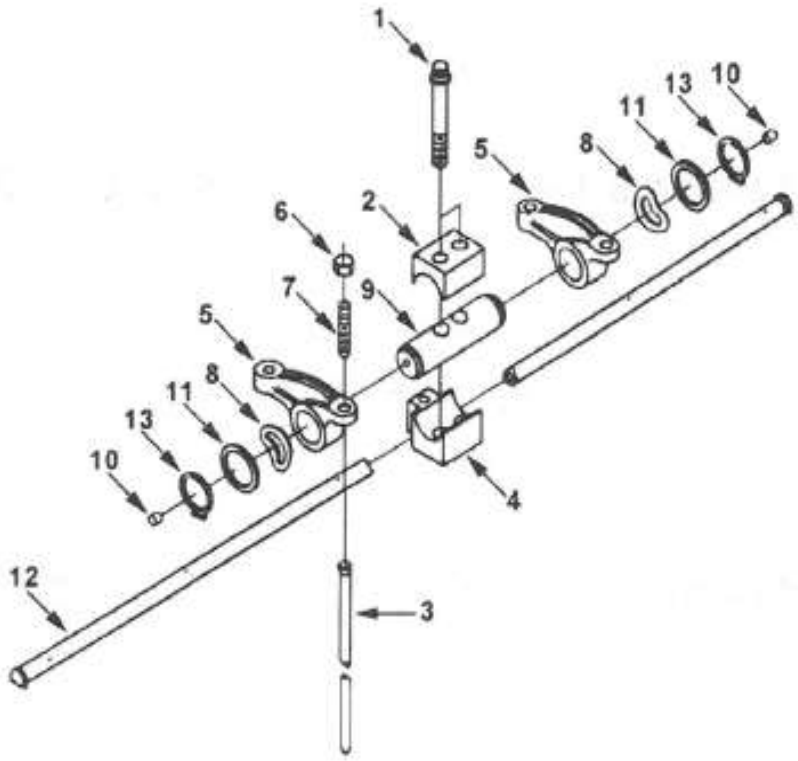
Dry Systems® Technologies

INJECTOR PLUMBING



Item	Qty	Part Number	Description	
	1	M510-513-01	Tube, Injector Fuel Supply	
1	1	M510-555-01	Tube, Injector Fuel Supply	# 6 Cylinder
2	1	M321-501-221	Brace Tube	
3	1	M321-501-222	Tube, Injector Fuel Supply	# 4 Cylinder
4	1	M321-501-223	Tube, Injector Fuel Supply	# 5 Cylinder
5	1	M321-501-224	Tube, Injector Fuel Supply	# 1 Cylinder
6	1	M508-593-01	Tube, Injector Fuel Supply	# 2 Cylinder
7	1	M321-501-225	Tube, Injector Fuel Supply	# 3 Cylinder
8	1	M321-501-226	Brace, Tube	

ROCKER LEVER



Dry Systems® Technologies

ROCKER LEVER

Item	Qty	Part Number	Description
1	12	M321-501-228	Screw, Twelve Point Cap
2	6	M321-501-229	Clamp, Retaining
3	12	M321-501-230	Rod, Push
4	6	M321-501-231	Support, Rocker Lever
	12	M321-501-232	Lever, Rocker
5	1	(M321-501-233)	Lever, Rocker
6	1	M321-501-234	Nut, Heavy Hexagon
7	1	M321-501-235	Screw, Rocker Lever Adjusting
	1	(M321-501-236)	Insert, Rocker Lever
8	12	M321-501-237	Washer, Spring
	6	M321-501-238	Shaft, Rocker Lever
9	1	(M321-501-239)	Shaft, Rocker Lever
10	1	M321-501-240	Rivet
11	12	M321-501-241	Washer, Plain
12	1	M321-501-242	Manifold, Oil
13	12	M321-501-243	Ring, Retaining

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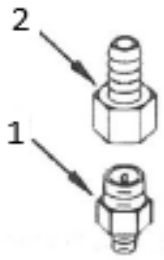
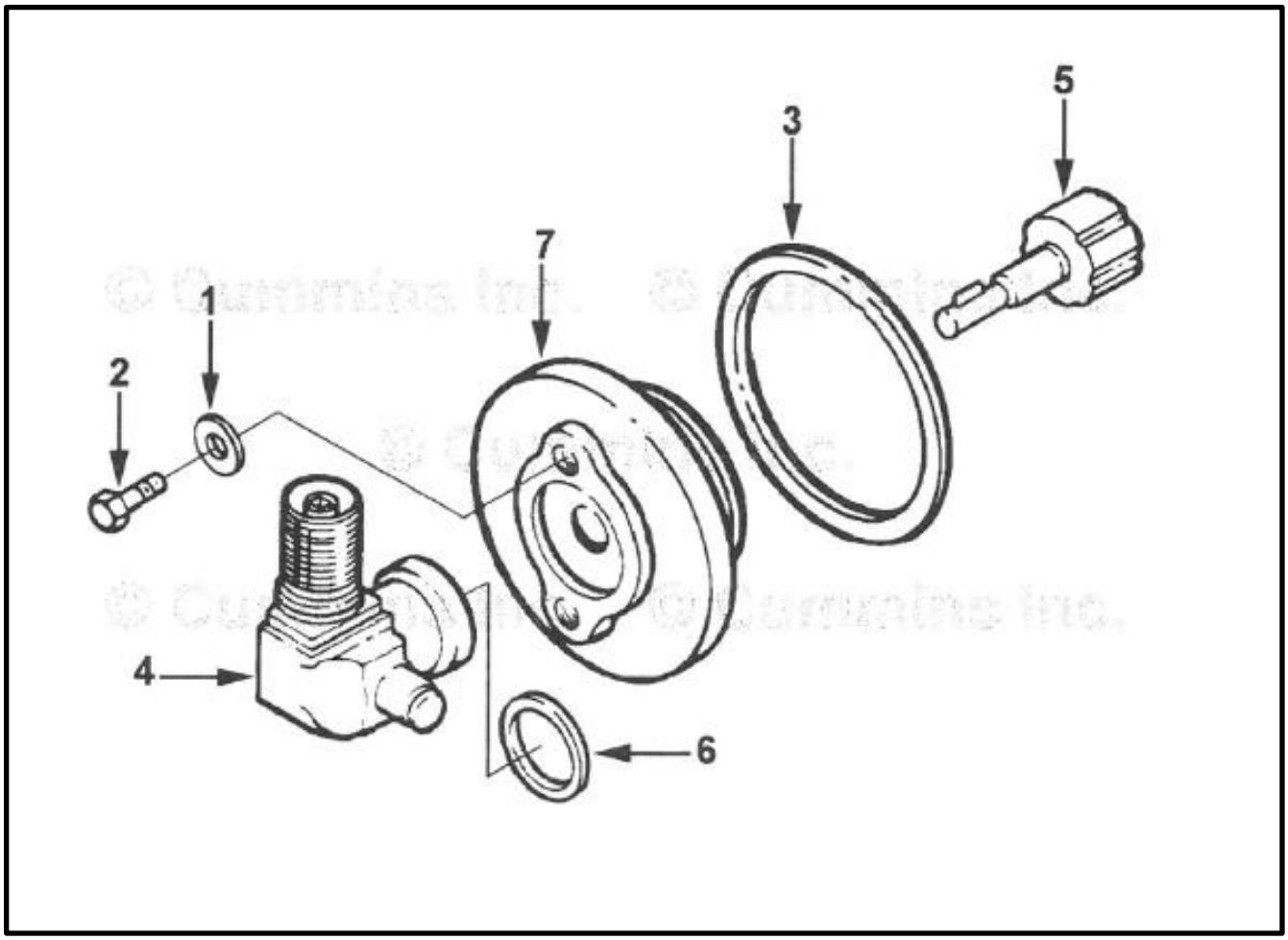
ENGINE COOLANT VENT



Item	Qty	Part Number	Description
	1	M321-501-245	Valve, Check
1	1	M321-501-246	Valve, Check
2	1	M321-501-247	Coupling, Plain Hose

Dry Systems® Technologies

TACHOMETER DRIVE



Item	Qty	Part Number	Description
1	2	M506-565-01	Washer, PLain
2	2	M506-566-01	Screw, Hexagon Head Cap
3	1	M505-554-01	Seal, Rectangular Ring
4	1	M502-598-01	Adapter, Angle Drive
5	1	M503-520-01	Hub, Tac Drive Coupling
6	1	M505-555-01	Seal, Rectangular Ring
7	1	M505-556-01	Adapter, Tac Takeoff Drive

Dry Systems® Technologies

EXHAUST MANIFOLD

Item	Qty	Part Number	Description
	1	M250-215-18	Manifold, Exhaust
	6	M250-214-01	Gasket, Exhaust Manifold
	12	M507-560-01	Screw, Hex Flange Head Cap (mounting screws)

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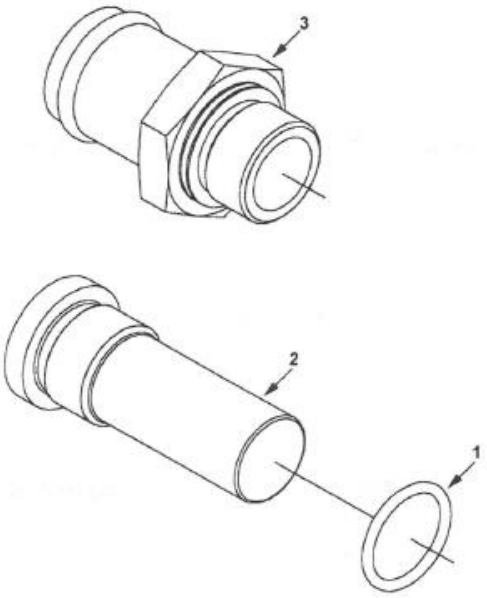
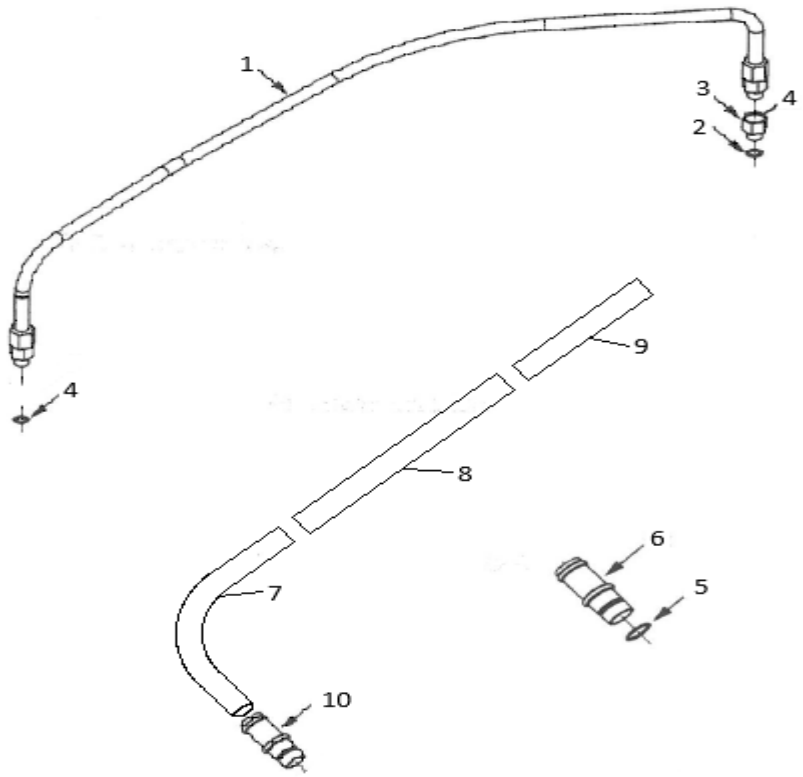
TORQUE CONVERTOR OIL COOLER



Item	Qty	Part Number	Description
	1	M321-501-248	Plug, Bypass
1	1	M509-563-01	Seal, O-Ring
2	1	(M321-501-249)	Plug, Threaded
3	1	M321-501-250	Coupling, Plain Hose

Dry Systems® Technologies

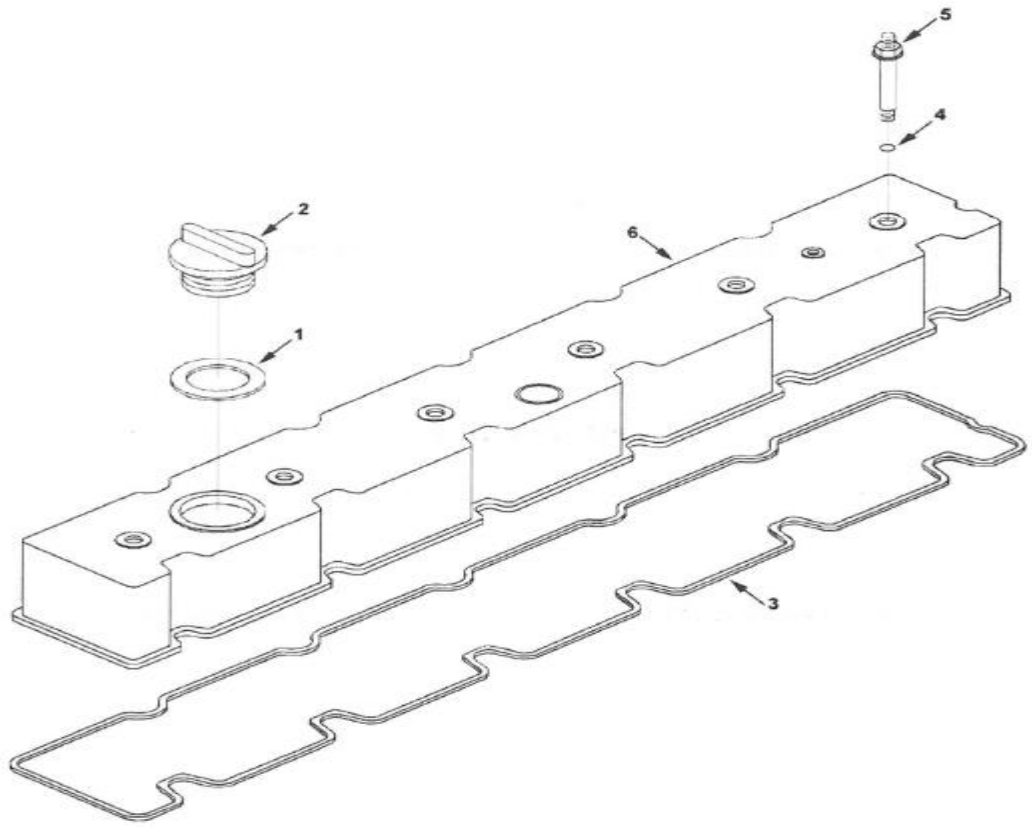
PLUMBING, TURBOCHARGER



Item	Qty	Part Number	Description
1	1	M508-599-01	Hose, Flexible
2	1	M321-501-251	Seal, O-Ring
3	1	(M321-501-252)	Connector, Female
4	2	M250-298-01	Washer, Sealing
5	1	M321-501-253	Seal, O-Ring
6	1	M321-501-254	Tube, Turbo Oil Drain
	1	M250-553-01	Hose Assy, Turbo Oil Drain (not shown)
7	1	M510-542-03	Hose, Elbow
8	1	M510-542-02	Tube, Turbo Coolant Supply
9	1	M510-542-04	Hose, Plain
10	1	M321-501-125	Coupling, Plain Hose
	4	M600-730-01	Clamp, Hose (not shown)

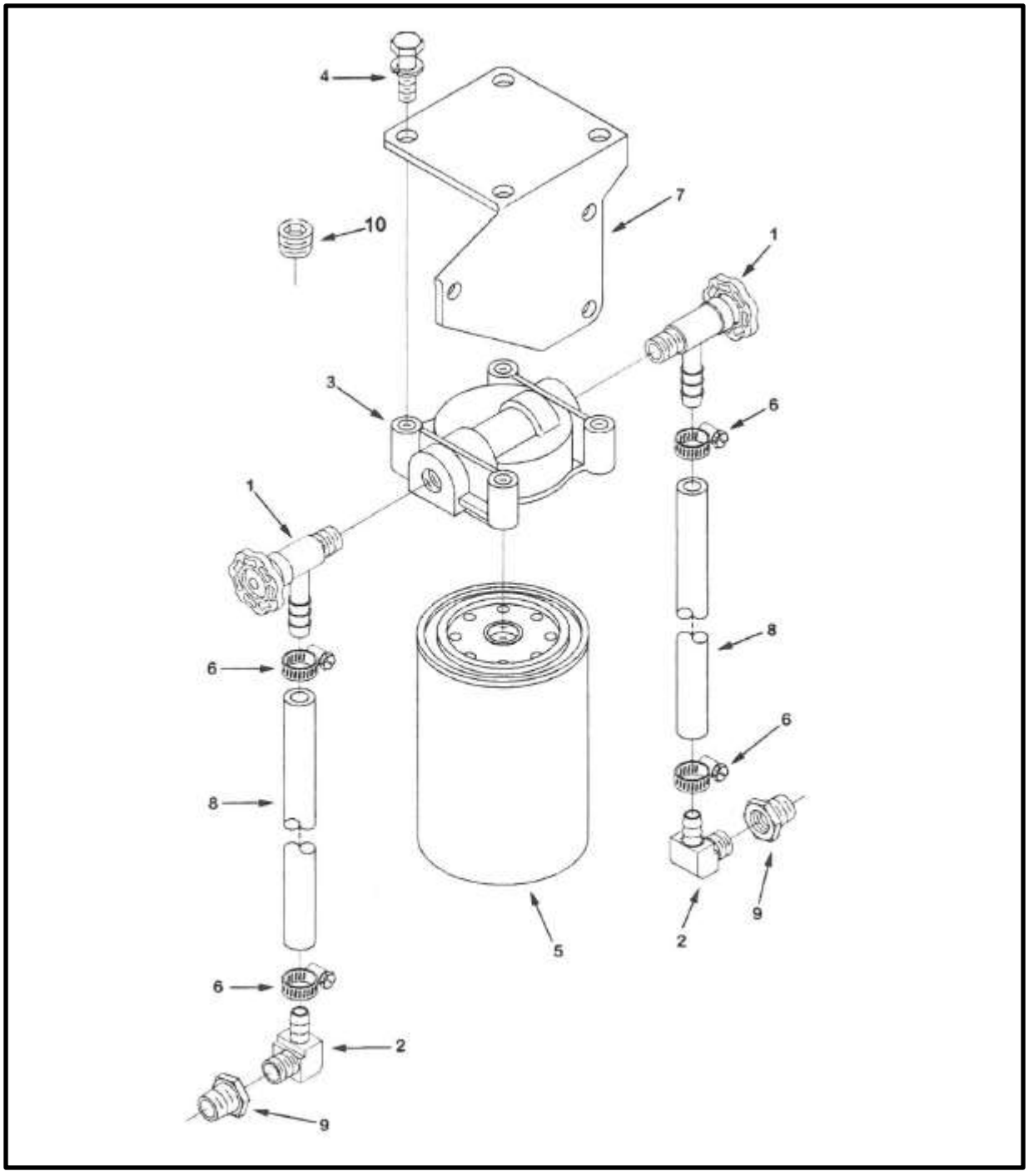
Dry Systems® Technologies

VALVE COVER



Item	Qty	Part Number	Description
1	1	M250-508-01	Seal, Rectangular Ring
2	1	M506-567-01	Cap, Filler
3	1	M250-507-01	Seal, Rocker Lever Cover
4	6	M250-527-01	Seal, O-Ring
5	6	M506-568-01	Screw, Hex Flange Head Cap
6	1	M506-569-01	Cover, Valve

CORROSION RESISTOR



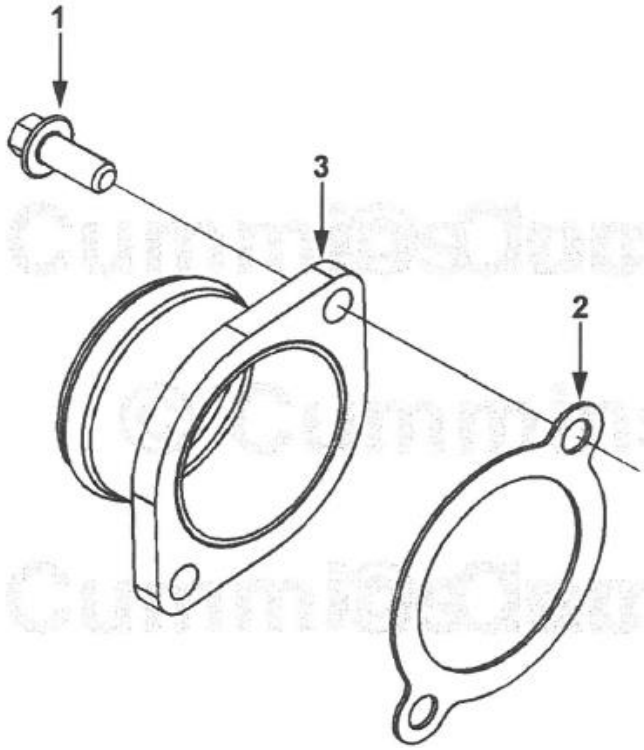
Dry Systems® Technologies

CORRISION RESISTOR

Item	Qty	Part Number	Description
1	2	M508-553-01	Valve, Shutoff
2	2	M321-501-255	Coupling, Elbow Hose
3	1	M508-554-01	Head, Corrosion Resistor
4	4	M321-501-256	Screw, Captive Washer Cap
5	1	M250-578-01	Resistor, Corrision
6	4	M321-501-257	Clamp, Hose
7	1	M321-501-258	Bracket, Filter
8	2	M321-501-259	Hose, Plain
9	2	M321-501-260	Bushing, Reducing Pipe
10	2	M321-501-09	Plug, Pipe

Dry Systems® Technologies

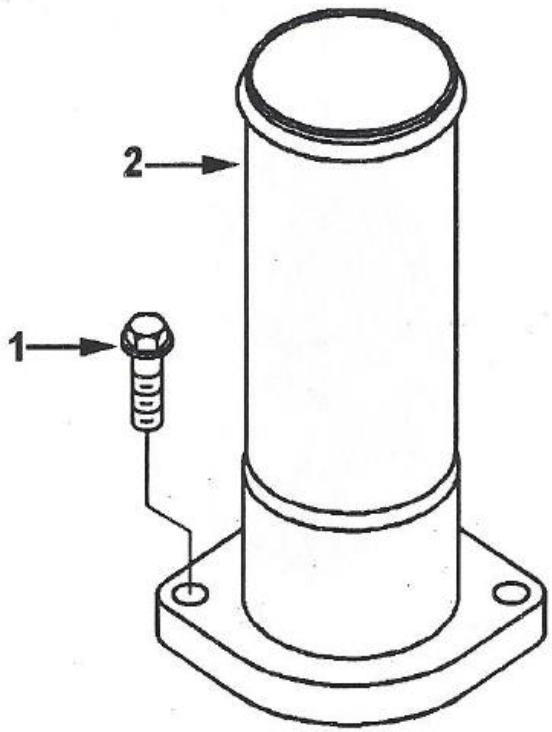
WATER INLET CONNECTION



Item	Qty	Part Number	Description
1	2	M250-514-01	Screw, Hex Flange Head Cap
2	1	M321-501-261	Gasket, Connection
3	1	M321-501-262	Connection, Water Inlet

Dry Systems® Technologies

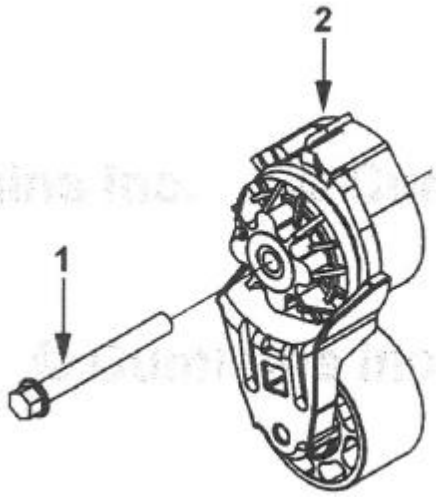
WATER OUTLET CONNECTION



Item	Qty	Part Number	Description
1	2	M250-533-05	Screw, Hex Flange Head Cap
2	1	M321-501-263	Connection, Water Outlet (modified)

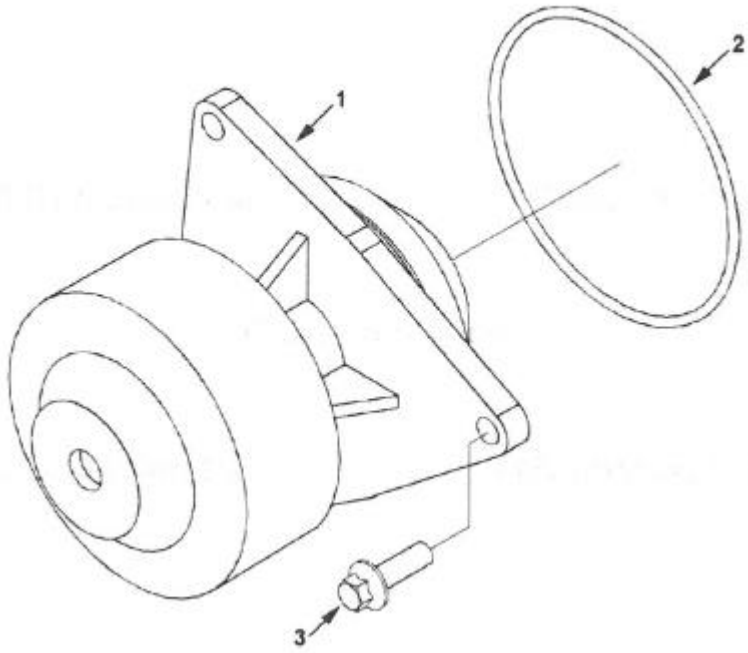
Dry Systems® Technologies

BELT TENSIONER



Item	Qty	Part Number	Description
1	1	M510-502-01	Screw, Hex Flange Head Cap
2	1	M505-561-01	Tensioner, Belt

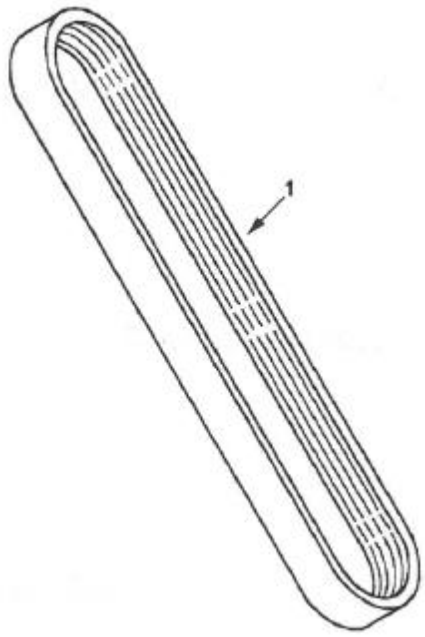
WATER PUMP



Item	Qty	Part Number	Description
	1	M509-505-01	Kit, Water Pump
1	1	(M321-501-265)	Pump, Water
2	1	M321-501-266	Seal, O-Ring
3	3	M321-501-267	Screw, Hex Flange Head Cap

Dry Systems® Technologies

WATER PUMP DRIVE BELT



Item	Qty	Part Number	Description
1	1	M250-590-01	Belt, V Ribbed

Dry Systems® Technologies

LOWER ENGINE GASKET SET

Item	Qty	Part Number	Description
	1	**M321-501-268**	**Lower Engine Gasket Set**
	1	M321-501-269	Gasket, Gear Housing
	1	M321-501-270	Washer, Sealing
	1	M321-501-271	Seal, O-Ring
	6	M321-501-272	Nozzle, Piston Cooling
	1	M321-501-99	Seal, Rectangular Ring
	1	M250-615-01	Seal. O-Ring
	1	M321-501-273	Seal, Rectangular Ring
	1	M321-501-274	Gasket, Lube Oil Cooler Cover
	1	M250-617-01	Seal, Rectangular Ring
	1	M321-501-275	Gasket, Hydraulic Pump
	1	M321-501-276	Gasket, Gear Cover
	1	M321-501-277	Gasket, Gear Cover
	1	M509-580-01	Gasket, Oil Cooler Core
	1	M321-501-278	Gasket, Hudraulic Pump
	1	M321-501-279	Washer, Sealing
	12	M321-501-18	Nozzle, Piston Cooling
	1	M321-501-280	Gasket, Lube Oil Cooler Cover
	1	M321-501-135	Valve, Bypass
	1	M509-508-01	Gasket, Oil Pan
	1	M505-511-01	Gasket, Cover Plate
	1	M509-506-01	Gasket, Oil Suction Connection
	1	M321-501-281	Gasket, Rear Cover
	1	M321-501-282	Seal, O-Ring
	1	M321-501-283	Kit, Front seal Service (includes installation tool)
	1	M321-501-284	Kit, Crankshaft Seal

Item	Qty	Part Number	Description
	1	M321-501-37	Main Bearing Kits, Standard
	1	M321-501-161	Engine Piston Kit, Standard

Dry Systems® Technologies

SERVICE REPAIR KIT

UPPER ENGINE GASKETS

Item	Qty	Part Number	Description
	1	**M250-589-01**	**Upper Engine Gasket Set Kit**
	6	M250-530-01	Seal, Banjo Connector
	2	M250-531-01	Washer, Sealing
	1	M250-507-01	Seal, Rocker Lever Cover
	1	M250-218-01	Gasket, Turbocharger
	6	M250-214-01	Gasket, Copper Exhaust Manifold
	1	M250-506-01	Gasket, Cylinder Head
	1	M250-291-01	Gasket, Intake Manifold
	6	M250-527-01	Seal, O-Ring
	1	M250-508-01	Seal, Rectangular Ring
	1	M250-528-01	Seal, Rectangular Ring
	1	M250-529-01	Seal, Rectangular Ring

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