



Customized Parts Catalog for Engine Model

QSL

CONSTRUCTION

Prepared Specifically for:

ATLAS COPCO MT2010

Engine Serial Number: **46561508**



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Cummins Inc.
Box 3005
Columbus, Indiana, U.S.A., 47202
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Cummins Inc.

New Parts Warranty Midrange

COVERAGE

PRODUCTS WARRANTED

This warranty applies to New Parts marketed by Cummins for its A, B, and C Series engines. It applies anywhere in the world where service is available through a Cummins distributor or A, B, and C Series dealer.*

COVERAGE

This warranty covers any failures of parts on or after December 1, 1986, which result, under normal use and service, from defects in workmanship or material (Warrantable Failures). The coverage extends six months from the date of first installation.

This warranty continues to all subsequent Owners until the end of the period of coverage.

CUMMINS RESPONSIBILITIES

Cummins will pay for all parts and labor needed to repair the damage to the engine resulting from the Warrantable Failure. All labor costs will be paid in accordance with Cummins published Standard Repair Time guidelines.

Cummins will pay for the lubricating oil, antifreeze, filter elements, and other maintenance items that are not reusable due to the Warrantable Failure.

Cummins will pay reasonable labor costs for engine removal and reinstallation when necessary to make the warranty repair.

OWNER RESPONSIBILITIES

At the time when the parts are installed, Owner is responsible for the preparation of a written record containing the following: (1) the date of installation of the parts; (2) the engine serial number; (3) the engine miles, hours or kilometers of operation; (4) the parts installed, and (5) the location of the parts in the engine. The purpose of this record is to protect Owner's interests and support any claim for a Warrantable Failure.

Owner is responsible for the operation and maintenance of the engine as specified in Cummins Operation and Maintenance Manuals.

Before expiration of the warranty, Owner must give notice to a Cummins distributor or A, B, and C Series dealer* of a failure considered to be warrantable and deliver the engine to such facility for repair.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items replaced during warranty repairs except where such items are not reusable due to a Warrantable Failure.

Owner is responsible for communication expenses, meals, lodging and similar costs incurred by Owner as a result of a Warrantable Failure. Owner is responsible for non-engine repairs and for "downtime" expenses, cargo damage and all business costs and losses resulting from a Warrantable Failure. **CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

(In the United States, some states do not allow the exclusion or limitation of incidental or consequential damages relating to Consumer Products, so the above limitation or exclusion may not apply to you.)

LIMITATIONS

Cummins is not responsible for failures resulting from Owner or Operator abuse or neglect, such as: operation without adequate coolant or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or air intake systems; improper storage, starting, warm-up, run-in or shutdown practices. Cummins is also not responsible for failures caused by incorrect fuel, or by water, dirt or other contaminants in the fuel.

Except for fuel pumps, Cummins does not warrant parts supplied by Cummins which bear the name of another company. These parts are warranted by their manufacturers and not by Cummins. This category of parts includes, but is not limited to: hydraulic pumps, alternators, starters, fans, air conditioning compressors, clutches, filters, transmissions, torque converters, marine gears, air cleaners and non-Cummins air compressors, engine compression brakes, and steering pumps.

Parts used in warranty repairs may be new Cummins, Cummins approved rebuilt parts, or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins.

Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards.

This warranty does not apply to parts furnished by Cummins at no charge to the Owner.

THIS WARRANTY IS THE SOLE WARRANTY MADE BY CUMMINS IN REGARD TO THESE PARTS. CUMMINS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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Customer Service Information

This Customized Parts Catalog contains parts information for the following Cummins Engine:

Engine Data

Model Number	QSL
Serial Number	46561508
Shop Order Number	SO43514
Build Plant	CONSOLIDATED DIESEL CO.
Build Date	09DEC05
Fuel Pump Part Number	4921431
Fuel Pump Calibration	GX51
Engine Configuration Number	D563004CU01
CPL Number	CPL8647

Certain basic engine components have been matched to give optimum performance to your engine. The part numbers listed in this catalog for these components are for a standard engine configuration. When ordering any of the Control Parts List (CPL) components listed below, please order by part description and engine serial number. Reference to the CPL number stamped on the engine data (name) plate will also help identify the proper service parts for your engine.

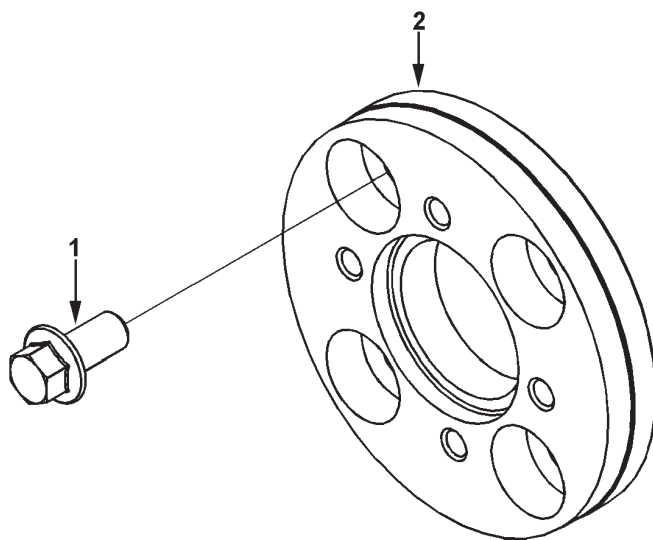
This catalog was compiled using the most current information as of 02-NOV-06.

USER INFORMATION

- . Parts numbers appearing in () are for identification purposes only and should not be used when ordering service replacement parts.
- . The reference numbers appearing on the art pages is for publication use only.
- . Assembly content is shown by part number indentation.
- . Options are engineered production part groupings, specifically used for compiling engine orders.
- . Option numbers are for reference only and are not sold for service.
- . Use assembly and not option content to determine service parts replacement.
- . Always specify engine model and serial number when ordering parts from this catalog.
- . Continual product improvement causes the obsolescence and replacement of part numbers. Service Parts you receive may not be the part number as those listed in this parts catalog.

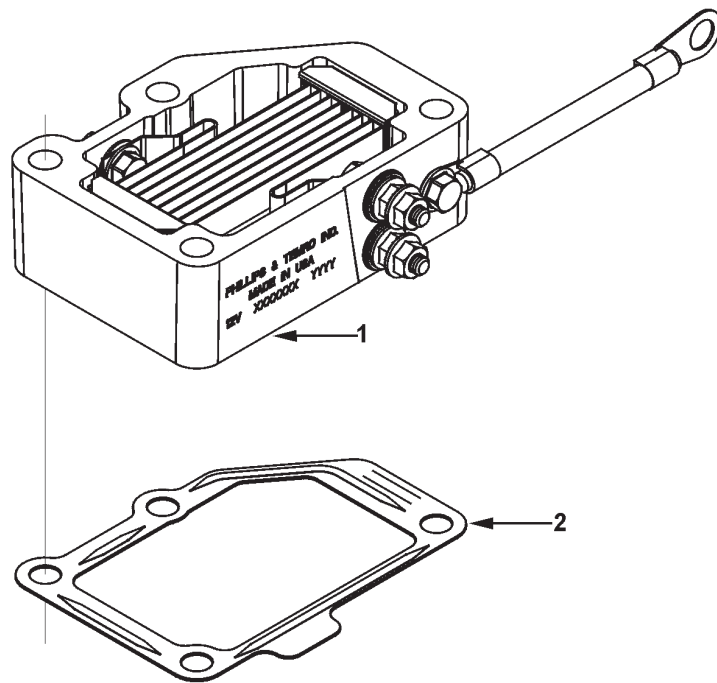
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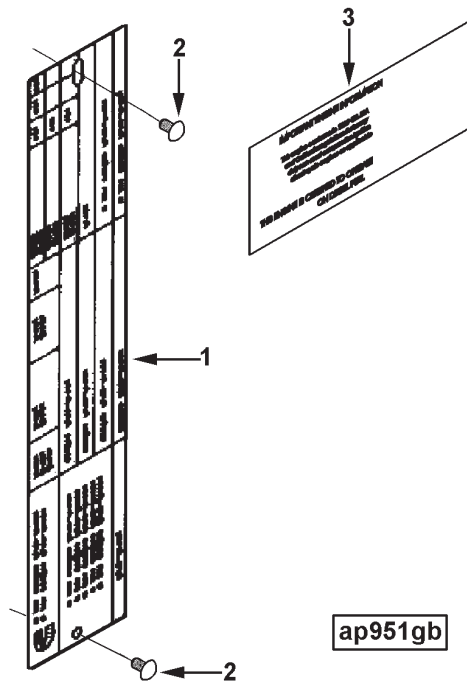


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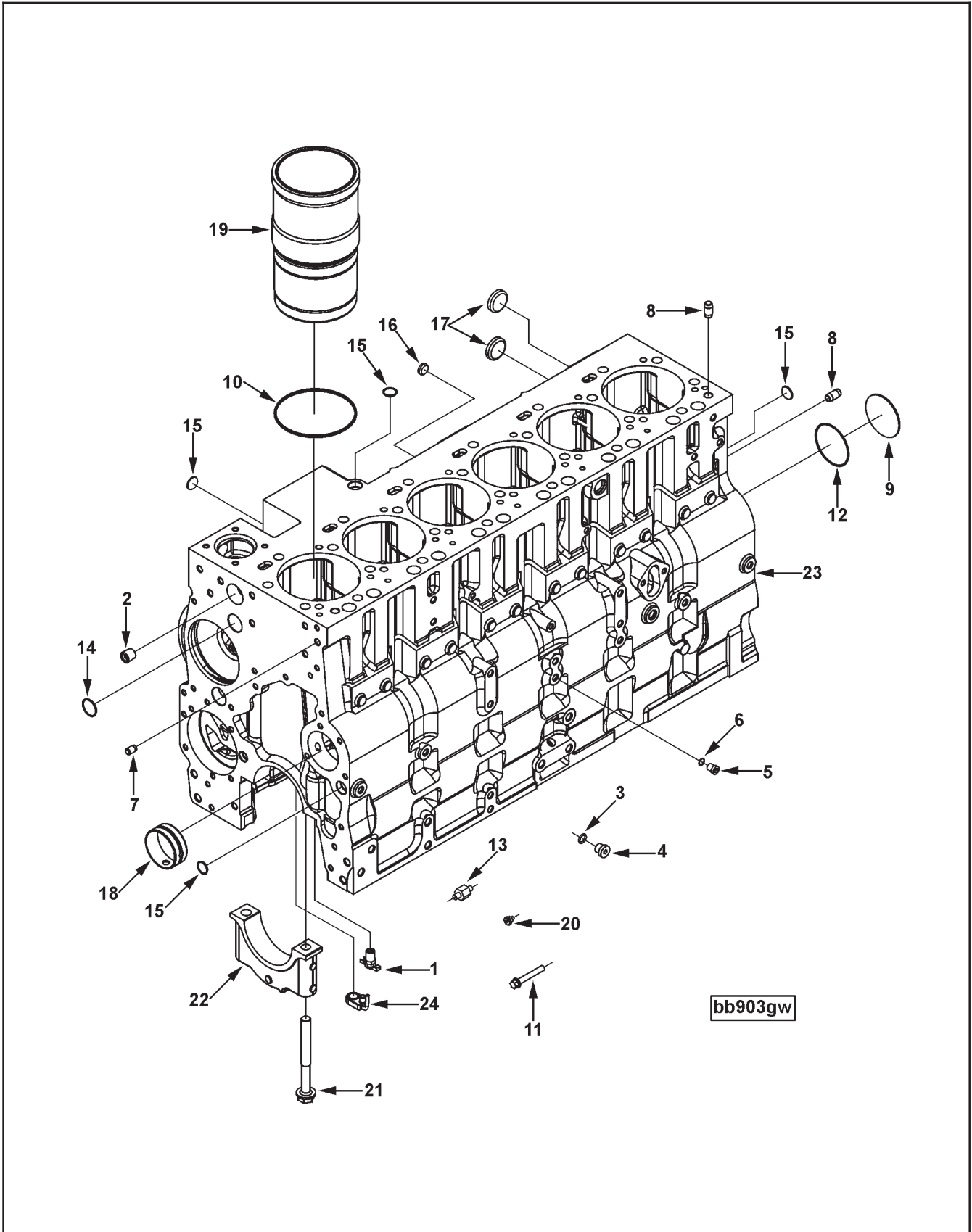
Ref No.	Part Number	Part Name	Req	Remarks
		FRONT DRIVE ADAPTER OPTION AF9156		Design Phase : Pegasus engine family : "L" Series Adapter Thickness : 32.5mm to determine customer PTO mounting face from front face of block, add this dimension to the customer mounting face dimension referenced In the compatible DA option. Required Mounting Thread: M12 X 1.75-6 H req'D. mounting bolt circle: 4 x 103mm pulley pilot diameter (mm): 24.1mm PTO/crank Pulley: Customer supplied PTO Pilot Diameter Provided: 134.85mm PTO Mounting Bolt Circle Provided: 4 X 96mm PTO Mounting Thread Provided: M12 X 1.75 Unique characteristics Used to select the correct damper option offering PTO mounting provision.
1	3901859	Screw, Hex Flange Head Cap	4	M12 x 1.75 x 55
2	3939088	Adapter, Crankshaft	1	



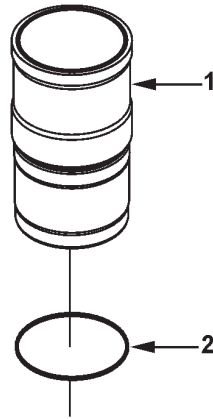
Ref No.	Part Number	Part Name	Req	Remarks
		AIR HEATER STARTING AID OPTION AH9155		MR - AIR HEATER STARTING AID Air Heater Type: Grid Heater Voltage: 24 Amperage: 100 Ground Type: Isolated Mounting Bolt Pattern: 4 x 95.mm Irregular Spacing Grid Heater Location: Air Intake Manifold Electrical Terminal Eyelet Diameter (mm): TBD
1	3975485	Heater, Intake Air	1	
2	3975487	Gasket, Connection	1	



Ref No.	Part Number	Part Name	Req	Remarks
		AGENCY APPROVAL OPTION AP9455		MR - APPROVAL, AGENCY Certified By: EPA, CARB, EU Application: Nonroad Cert Level: Tier 3, Tier 3, STIIIA Special Allowance: None Cert Agent: EPA, EPA, VCA Comments: N/A Fuel Type: Diesel Manufacturer of Record: Cummins Language: English Engine Family: C & L Series
1	3284906	Dataplate	1	
2	3908612	Screw, Drive	2	
3	3978698	Dataplate	1	

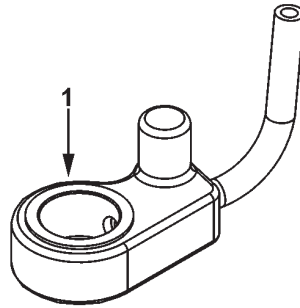


Ref No.	Part Number	Part Name	Req	Remarks
		CYLINDER BLOCK OPTION BB9081		MR - BLOCK, CYLINDER Engine Family: L Design Phase: Pegasus Beta Piston Cooling Nozzles: Targeted Tappets: Roller Main Bearing Cap Material: 41,020 Push Rod Load Capability (lbs.): 1700 Flywheel Housing to Block Mounting: 12 x M12 x 1.75 Oil Pan to Block Mounting: 24 x M8 x 1.25 Block/Oil Pan Mounting Hole Spacing: Equal Block/Oil Pan Mounting Hole Pitch (mm): 78.5 Block Flange: 282mm x 773.5mm (Width/Length, Hole to Hole) Grounding Stud Location: Fuel Pump Side (Hole #326) Fuel Pump Side (Hole #442)
1	S 923 E	Draincock	1	
2	3008468	Plug, Pipe	1	1/2 NPT
	3678921	Plug, Threaded	1	
3	3678912	Seal, O Ring	1	
4	(3678922)	Plug, Threaded	1	
	3678923	Plug, Threaded	5	
5	(3678924)	Plug, Threaded	1	
6	3678925	Seal, O Ring	1	
7	3900257	Dowel, Pin	2	
8	3901846	Dowel, Pin	2	
9	3901969	Plug, Expansion	1	
10	3907177	Seal, Rectangular Ring	6	
11	3909025	Screw, Hex Flange Head Cap	6	M8 x 1.25 x 55
12	3926048	Seal, O Ring	1	
13	3966286	Screw, Hex Flange Head Cap	1	
	(3971391)	Block, Cylinder	1	Sold In Higher Level Assy/Kit
14	143066	Plug, Expansion	3	
15	3004258	Plug, Expansion		
16	3900956	Plug, Expansion	3	
17	3905401	Plug, Expansion	4	
18	3945329	Bushing	7	
19	(3948095)	Liner, Cylinder	6	Sold In Higher Level Assy/Kit
20	3966035	Guide, Tappet	12	
21	3970810	Screw, Hex Flange Head Cap	14	
22	3970955	Cap, Main Bearing	7	
23	(3971390)	Block, Cylinder	1	
24	3959291	Nozzle, Piston Cooling	6	



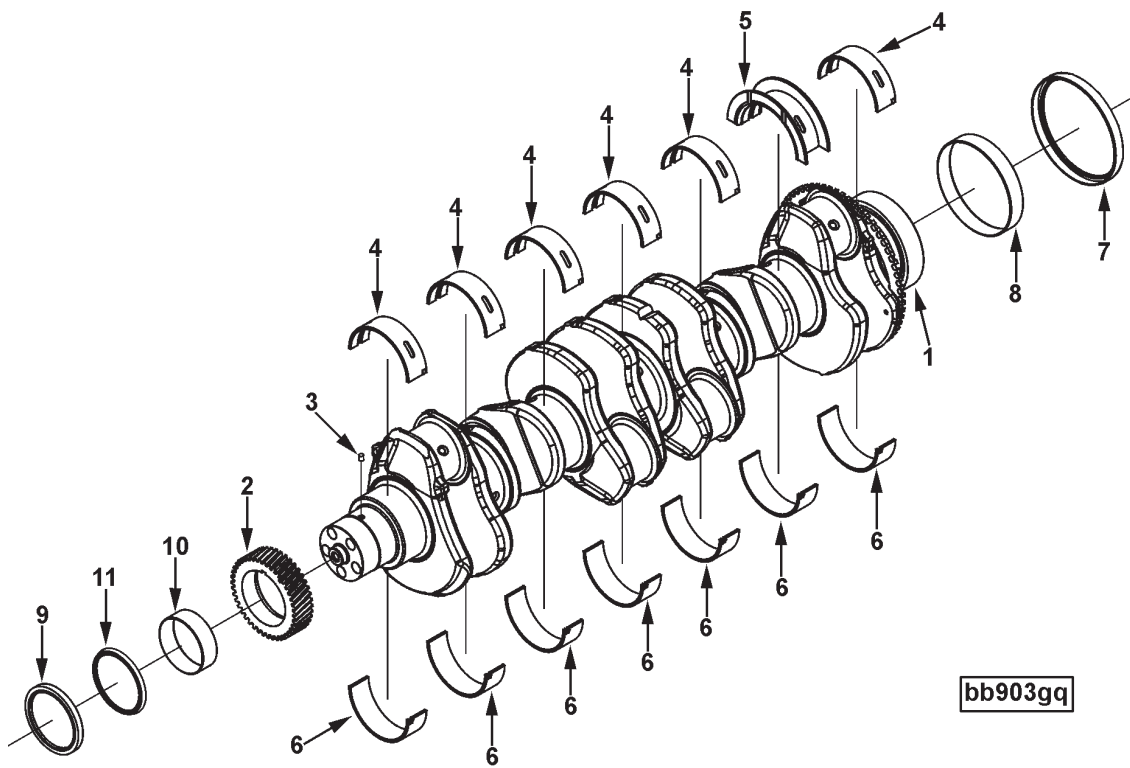
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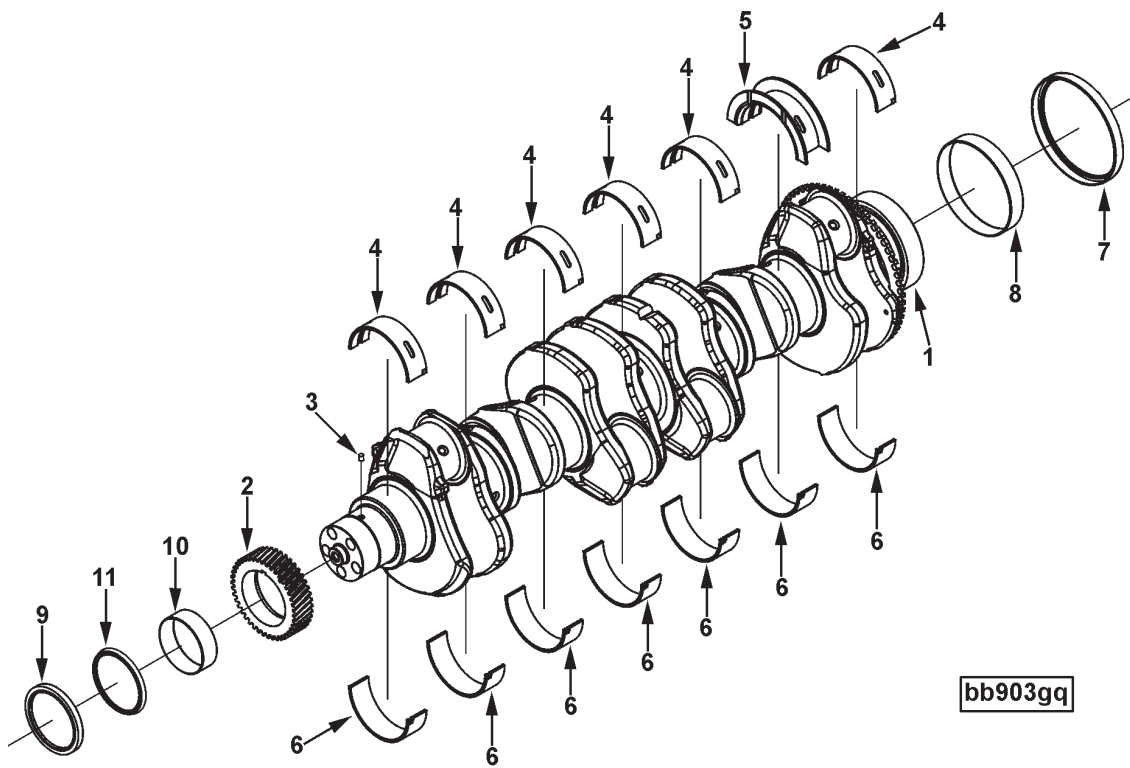
Ref No.	Part Number	Part Name	Req	Remarks
		CYLINDER LINER OPTION BB9081		MR - LINER, CYLINDER Engine Family: L Design Phase: Pegasus Beta Piston Cooling Nozzles: Targeted Tappets: Roller Main Bearing Cap Material: 41,020 Push Rod Load Capability (lbs.): 1700 Flywheel Housing to Block Mounting: 12 x M12 x 1.75 Oil Pan to Block Mounting: 24 x M8 x 1.25 Block/Oil Pan Mounting Hole Spacing: Equal Block/Oil Pan Mounting Hole Pitch (mm): 78.5 Block Flange: 282mm x 773.5mm (Width/Length, Hole to Hole) Grounding Stud Location: Fuel Pump Side (Hole #326) Fuel Pump Side (Hole #442)
1	3800328 (3948095)	Kit, Liner	6	
2	3907177	Liner, Cylinder Seal, Rectangular Ring	1 1	Sold In Higher Level Assy/Kit



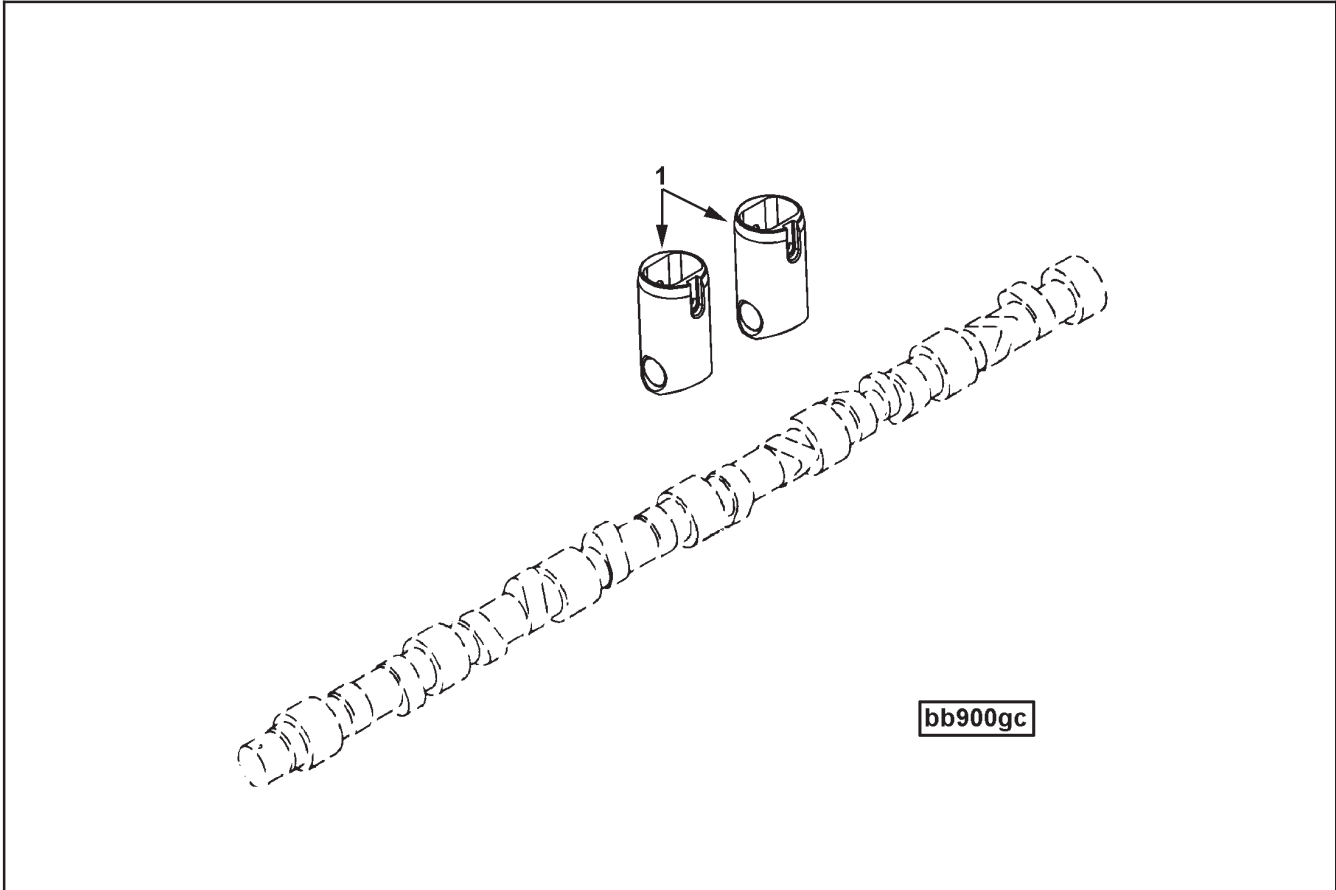
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Ref No.	Part Number	Part Name	Req	Remarks
1	3959291	<p style="text-align: center;">PISTON COOLING NOZZLE OPTION BB9081</p> <p>Nozzle, Piston Cooling</p>	6	<p>MR - NOZZLE, PISTON COOLING</p> <p>Engine Family: L Design Phase: Pegasus Beta Piston Cooling Nozzles: Targeted Tappets: Roller Main Bearing Cap Material: 41,020 Push Rod Load Capability (lbs.): 1700 Flywheel Housing to Block Mounting: 12 x M12 x 1.75 Oil Pan to Block Mounting: 24 x M8 x 1.25 Block/Oil Pan Mounting Hole Spacing: Equal Block/Oil Pan Mounting Hole Pitch (mm): 78.5 Block Flange: 282mm x 773.5mm (Width/Length, Hole to Hole) Grounding Stud Location: Fuel Pump Side (Hole #326) Fuel Pump Side (Hole #442)</p>





Ref No.	Part Number	Part Name	Req	Remarks
9	(3921928)	Seal, Oil	1	Sold In Higher Level Assy/Kit
10	3924986	Sleeve, Wear	1	Sold In Higher Level Assy/Kit
11	(3924987)	Shield, Dust	1	Sold In Higher Level Assy/Kit
		OVERSIZE THRUST BEARINGS		
	3944168	Bearing, Crankshaft Thrust	A/R	Std Journal - Oversize Thrust
	3944169	Bearing, Crankshaft Thrust	A/R	Std Journal - Oversize Thrust
	(3944170)	Bearing, Crankshaft Thrust	A/R	

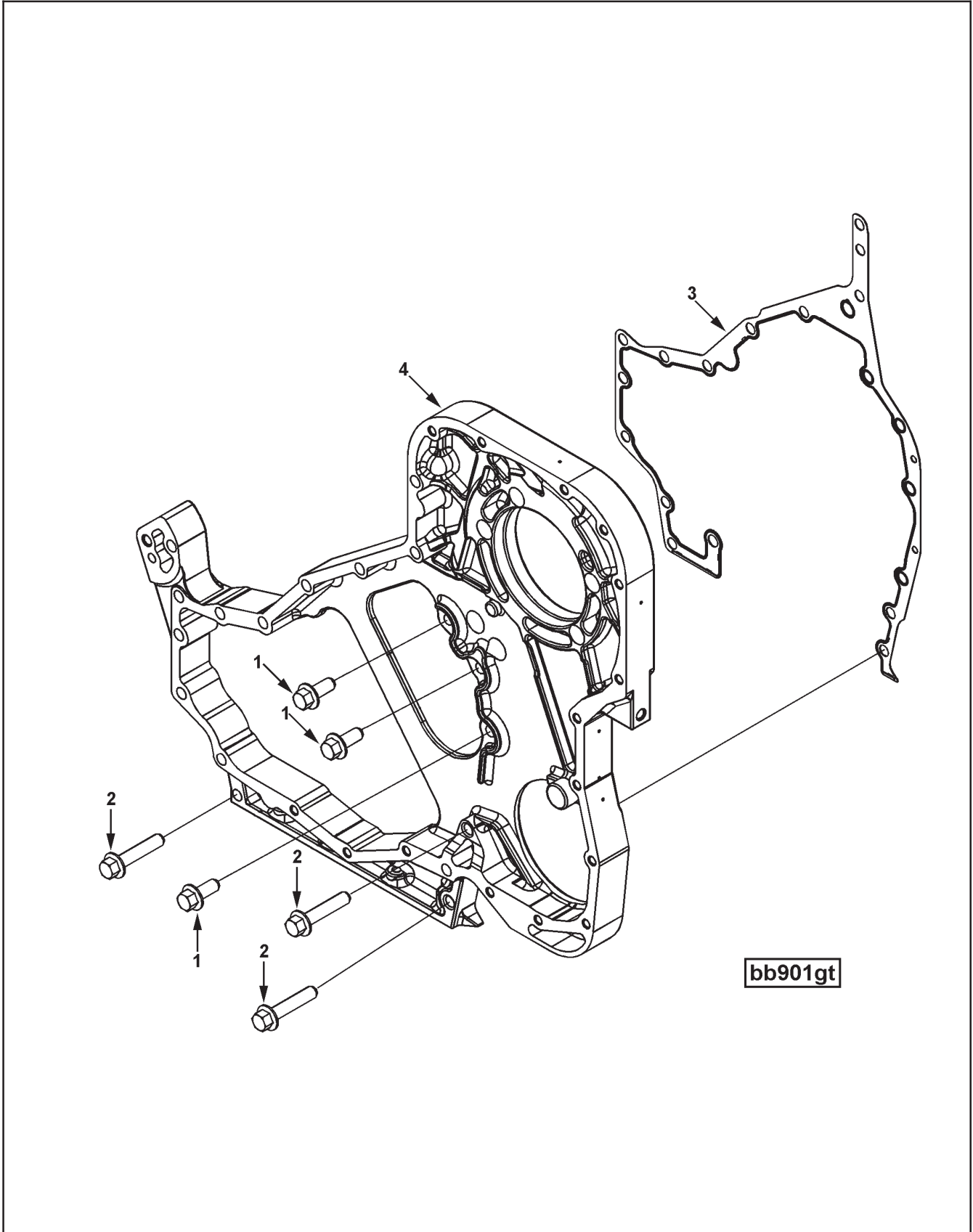


Ref No.	Part Number	Part Name	Req	Remarks
1	3965966	<p style="text-align: center;">VALVE TAPPET OPTION BB9081</p> <p>Tappet, Valve</p>	12	<p>MR - TAPPET, VALVE</p> <p>Engine Family: L Design Phase: Pegasus Beta Piston Cooling Nozzles: Targeted Tappets: Roller Main Bearing Cap Material: 41,020 Push Rod Load Capability (lbs.): 1700 Flywheel Housing to Block Mounting: 12 x M12 x 1.75 Oil Pan to Block Mounting: 24 x M8 x 1.25 Block/Oil Pan Mounting Hole Spacing: Equal Block/Oil Pan Mounting Hole Pitch (mm): 78.5 Block Flange: 282mm x 773.5mm (Width/Length, Hole to Hole) Grounding Stud Location: Fuel Pump Side (Hole #326) Fuel Pump Side (Hole #442)</p>

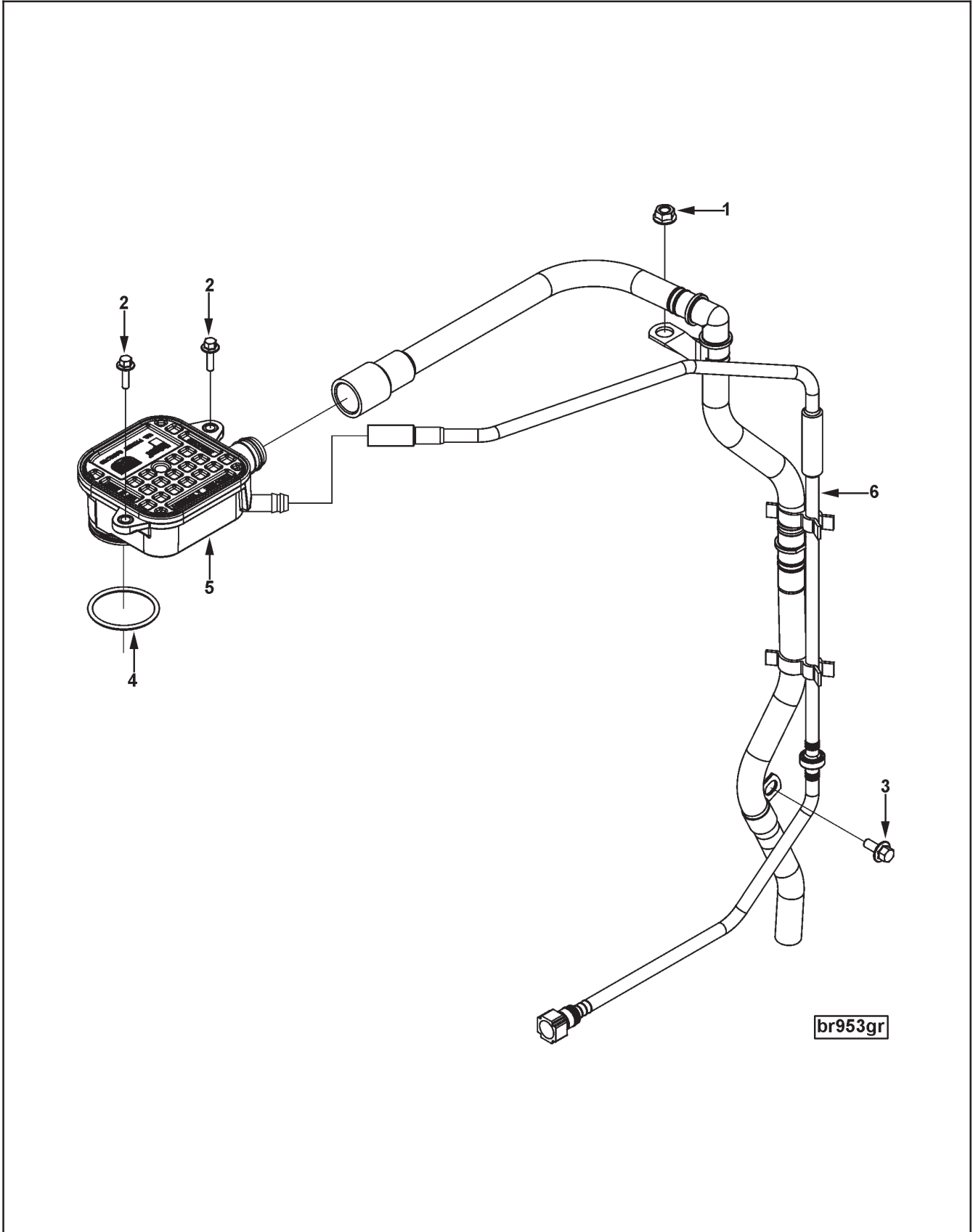


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Ref No.	Part Number	Part Name	Req	Remarks
1	3008469	<p style="text-align: center;">CYLINDER BLK COOLANT PLUMB OPTION BB9129</p> <p>Plug, Pipe</p>	2	<p>MR03 - PLUMBING, CYLINDER BLOCK COOLANT</p> <p>Port #466 (-123.5, 336.0, -772.0): Closed Port #467 (-123.5, 259.0, -772.0): Closed Port #425 (-123.5, 336.0, -498.0): Open Port #427 (-123.5, 259.0, -498.0): Open This Option is Required to Close Off Unused Coolant Ports (Corrosion Resistor) on the Pegasus Cylinder Block</p> <p>3/4 NPT</p>



Ref No.	Part Number	Part Name	Req	Remarks
		FRONT GEAR HOUSING OPTION BB9836		Engine Family: C And L Design Phase: Pegasus Alpha Drive Location: Gear cover - back Accy drive pilot bore: 114.7mm Centerline of crank to centerline of accy drive provision: 39.5mm Centerline of engine to centerline of accy drive provision: 227.4mm Gear Housing Mounting: 6 Xm8 X1.25 Gear housing accy drive mounting provision: 2 xm12 x1.75 Gear housing accy drive mounting bolt circle diameter: 146mm Fuel pump pilot bore: 107mm Centerline of crank to centerline of fuel pump drive provision: 317.7mm Centerline of engine to centerline of fuel pump drive provision: 209mm Fuel pump mounting 4 x m10 x 1.5 Fuel pump mounting bolt circle diameter: 130mm
1	3926846	Screw, Hex Flange Head Cap	3	M8 x 1.25 x 20
2	3943885	Screw, Hex Flange Head Cap	3	M8 x 1.25 x 40
3	3944293	Gasket, Gear Housing	1	
4	3950375	Housing, Gear	1	



Ref No.	Part Number	Part Name	Req	Remarks
		CRANKCASE BREATHER OPTION BR9215		MR - BREATHER, CRANKCASE Breather Type: Open Breather Plumbing Supplier: Cummins Hose Termination Point Above Crank Centerline (mm): 9.045 Vent Connection Location: Valve Cover From Crank Centerline (mm): 9.045 From Engine Centerline (mm): 174.255 From Front Face of Block (mm): 842.019 Engine Family: C & L Series
1	3900589	Nut, Hexagon Flange	1	M8 x 1.25
2	3901865	Screw, Hex Flange Head Cap	2	M6 x 1.00 x 20
3	3925883	Screw, Hex Flange Head Cap	1	M8 x 1.25 x 16
	3964093	Housing, Breather	1	
4	3073966	Seal, O Ring	1	
5	(3964092)	Housing, Breather	1	
6	3974546	Tube, Lub Oil Drain	1	



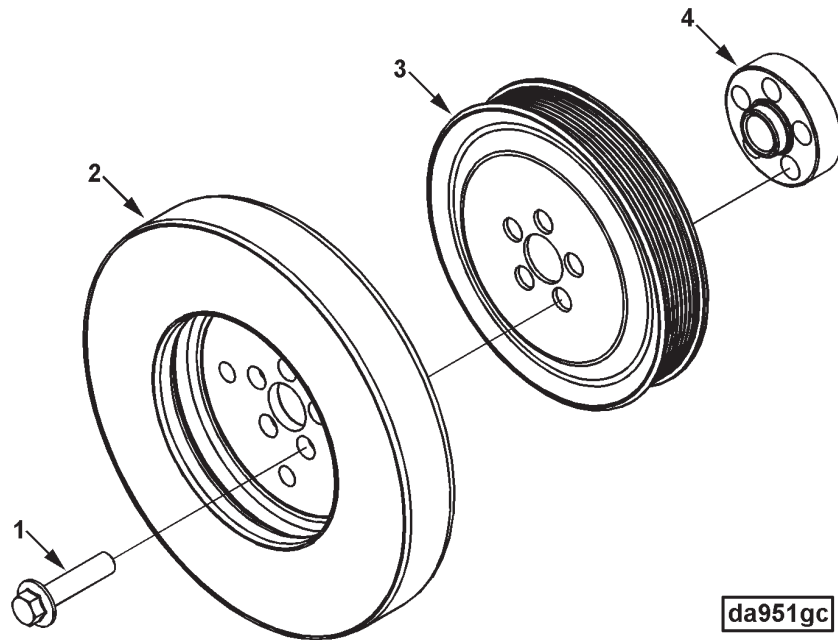
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Ref No.	Part Number	Part Name	Req	Remarks
1	3008469	Plug, Pipe	1	<p>MR - AID, COOLANT HEATER STARTING Provision for Customer Supplied Coolant Heater or When No Heater is Required Tapping Provision: 3/4 in. NPTF Crank Centerline to Tapping Provision (mm): 252 Engine Centerline to Tapping Provision (mm): -181 Front Face of Block to Tapping Provision Centerline (mm): -138 Engine Family: C & L Series Plug Installed</p>



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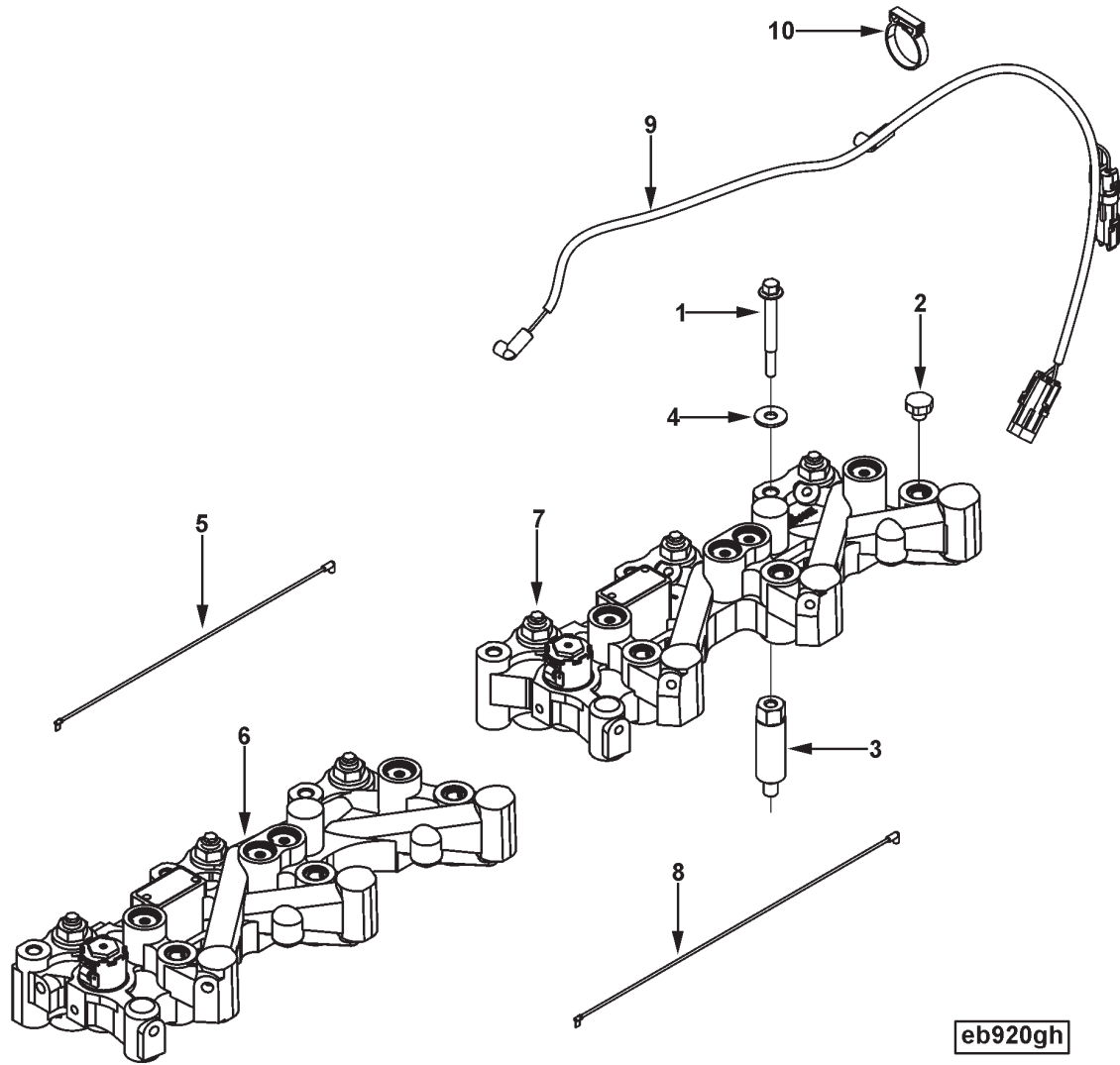
Ref No.	Part Number	Part Name	Req	Remarks
1	3008469	COOLANT HEATER STARTING AID OPTION CH9087 Plug, Pipe	1	MR - COOLANT HEATER STARTING AID Coolant Port Plumbing Location: Closed 3/4 NPT



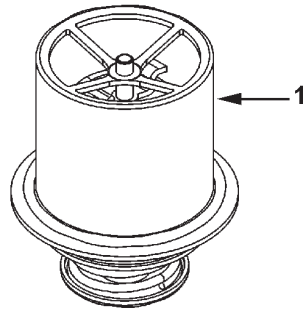
Ref No.	Part Number	Part Name	Req	Remarks
		VIBRATION DAMPER OPTION DA9155		MR - DAMPER, VIBRATION Design Phase : Pegasus Beta Engine Family: L Series Engine Cylinder : 6 Damper Diameter (mm): 280 Damper Type: Viscous Damper Mounting Hole Pattern (mm): 5 x 1.5 Damper Mounting Bolt Circle Diameter (mm): 55 Pulley Profile: Poly V 8 Rib K Drive Pulley Diameter Over 2.5 Balls (mm): 199.42 Front Face of Block to Centerline of First Pulley Groove (mm): 57.1 Front PTO Provision: Yes PTO Pilot Diameter : 24.01 PTO Mounting: M12 x 1.75 PTO Bolt Circle (mm): 4 x 103 Customer Mounting Face From Front Face of Block (mm): 99.59 Auxiliary Drive Pulley Provision : No
1	3914118	Screw, Hex Flange Head Cap	5	M14 x 1.50 x 60
2	3967014	Damper, Vibration	1	
	3943978	Pulley, Crankshaft	1	
3	(3944063)	Pulley, Crankshaft	1	
4	(3943977)	Adapter, Crankshaft	1	

Ref No.	Part Number	Part Name	Req	Remarks
		DRIVE,FRO GER TRA ACC OPTION DF9124		Mr - front gear train acc drive mounting front gear train accessory drive mounting front gear drive PTO: Hydraulic pump adapter For customer supplied hydraulic pumps Gear Housing Pilot Bore: 114.7mm Gear housing accy drive mounting provision: 2 xm12 x1.75 Gear housing accy drive mounting bolt circle diameter: 146mm Cover Plate Provided: Yes PTO Flange SAE: 101-2(SAE B) PTO Drive Type: SAE 22-4 rear flange mount thread: Metric Includes plugs to plug compressor water/air provision. Plumbing location: Elbow fitting installed in #4 oil supply hole in cylinder block.
	3008468	Plug, Pipe	1	1/2 NPT
	3008469	Plug, Pipe	1	3/4 NPT
	3902115	Screw, Hex Flange Head Cap	2	M12 x 1.75 x 65
	3914868	Plate, Cover	1	
	3917990	Hose, Flexible	1	
	3924200	M/B Pipe Plug	1	
	3008468	Plug, Pipe	1	1/2 NPT
	3936231	Drive, Hydraulic Pump	1	
	3935644	Bearing, Roller	1	
	3935645	Shaft, Accessory Drive	1	
	3936139	Gear, Accessory Drive	1	
	3939694	Elbow, Plain Union	1	
	3939959	Adapter, Hydraulic Pump	1	
	3938655	Gasket, Acc Drive Cover	1	
	3940245	Gasket, Hydraulic Pump	1	
	3945212	Elbow, Plain Union	1	M10 x 1.00 x 7/16-20

Ref No.	Part Number	Part Name	Req	Remarks
		<p align="center">SOFTWARE,CUS INTERFACE OPTION DO90125</p>		<p>Mr - customer interface software</p> <p>Engine Control System: P2 I Transmission: Generic Commun Support: J1939, J1708 cust/OEM name: Generic cust/OEM model: Generic cust/OEM app: Generic Remote Throttle: N High Idle: 2280 RPM Low Idle: 750 RPM ISC enable: On ISC Validation: Off switch speed input: No Torque Curve Selection: No ASG/axg/min/ max: ASG governor droop: 7% idle validation: No Multiple Unit Synchronization: N/A Output Driver Setup: Yes Calibration Voltage: 24volt Throttle Type: Williams comment: Power match: Yes guid: N/A governor break: 2130 RPM engine brake provision: No electronic fan clutch: Yes Oil Pressure Sensor Type: Sensor Engine Family: Qsl applicable FR option: FR91524.</p>

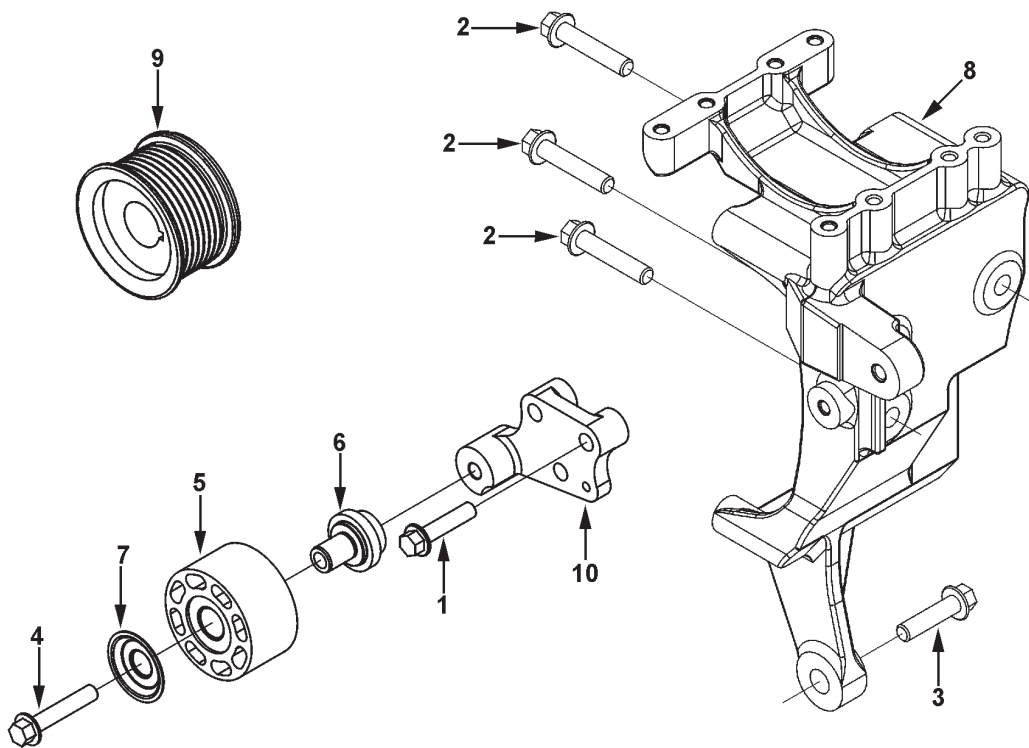


Ref No.	Part Number	Part Name	Req	Remarks
		ENGINE BRAKE OPTION EB9039		MR03 - ENGINE BRAKE Engine Family: L Series Engine Design Phase: Pegasus Required Exhaust Spring PSI: 65 Wiring Harness Supplier: Cummins Brake Type: Compression Brake Control System: Electronic Brake Supplier: Cummins Brake Manufacturing/Model: Jacobs 490 Brake Lash Setting (in.): 0.090 Cab Control Supplier: Customer ECM Version: CM850 Voltage: 24 Solenoid Type: Dual Lead
1	3927064	Screw, Hex Flange Head Cap	12	
2	3945239	Cap, Adjusting Nut	6	
3	3945240	Spacer, Threaded	6	
4	3945241	Washer, Plain	6	
5	3948278	Harness, Wiring	1	
6	3963796	Housing, Engine Brake	1	
7	3963797	Housing, Engine Brake	1	
8	3964781	Harness, Wiring	1	
9	3969631	Harness, Wiring	1	
10	3969959	Clip, Wire Retaining	1	



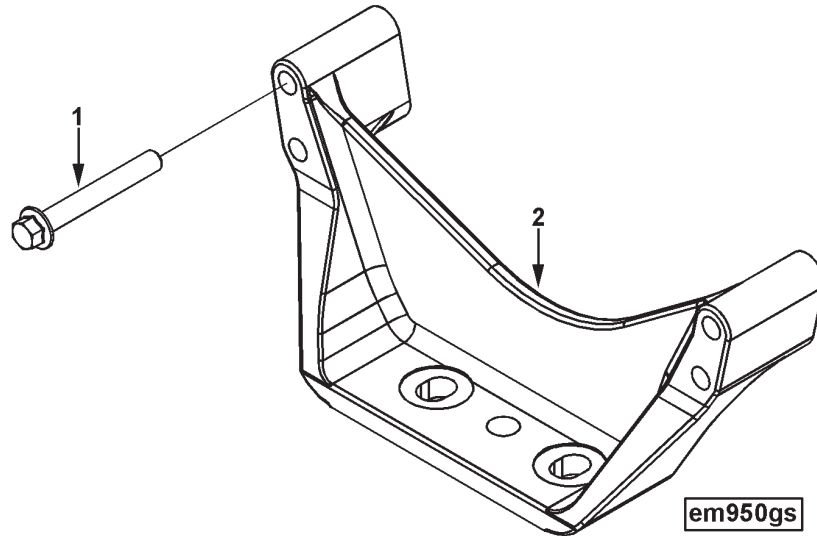
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Ref No.	Part Number	Part Name	Req	Remarks
1	4930594	<p style="text-align: center;">THERMOSTAT OPTION EC9702</p> <p>Thermostat</p>	1	<p>MR - THERMOSTAT Thermostat Used on C & L Series Engines 180 Degree F Opening</p>

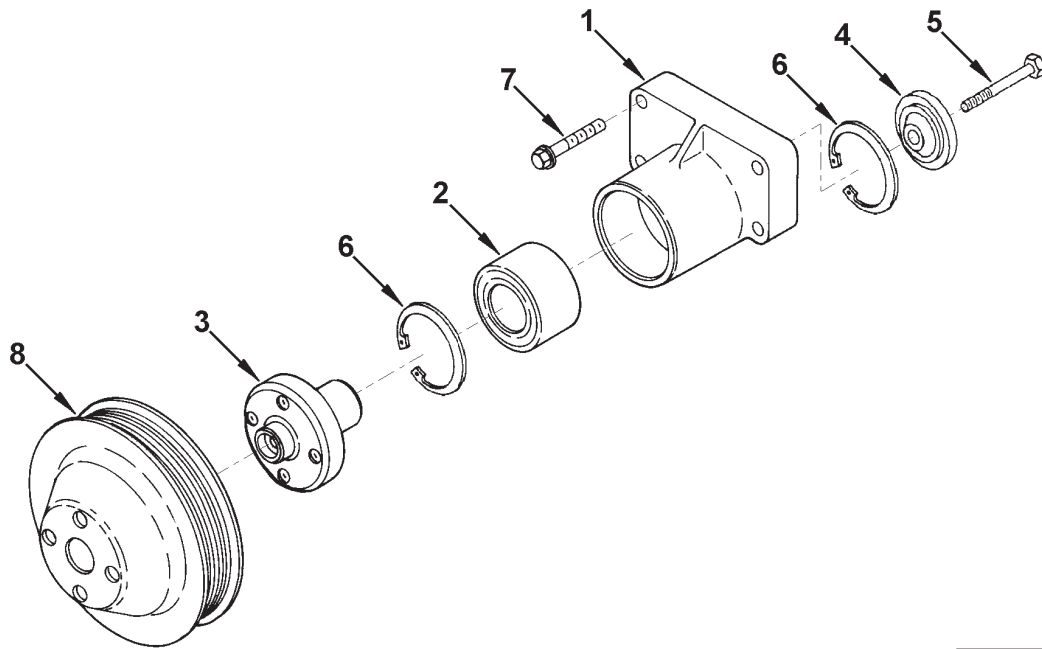


eh965gh

Ref No.	Part Number	Part Name	Req	Remarks
		ALTERNATOR MOUNTING OPTION EH97428		MR - MOUNTING, ALTERNATOR Design Phase: Pegasus Engine Family: C & L Series Engine Cylinders: 6 Alternator Pulley Location: From Engine Centerline (mm): -328.0 From Crank Centerline (mm): 302.1 Alternator Pulley Diameter Over 2.5mm Gage Balls (mm): 67.45 Pulley Retainer Provided: No Crankshaft Drive Pulley Diameter Over 2.5mm Gage Balls (mm): 199.42 Alternator Drive Ratio: 2.9:1 Alternator Pulley Location: From Front Face of Block to Centerline of First Groove (mm): 57.1 Refrigerant Compressor Mounting Provision: Yes Refrigerant Compressor: Sanden (Non-Side Port Compressors) From Engine Centerline (mm): -270.0 From Crank Centerline (mm): 480.5 Refrigerant Compressor: Visteon From Engine Centerline (mm): -270.0 From Crank Centerline (mm): 482.0 Reference Compressor Drive : Serpentine From Crank Centerline (mm): 134.0 Belt Tensioner Pivot Location: From Engine Centerline (mm): -235.7 From Crank Centerline (mm): 134.0 Tensioner Spring Rate : 550 in/lbs Tensioner Angle of Travel (deg): 52 To Suit Alternator Manufacturing/Model: Delco Remy 34SI Up to 12V/135A Leece Neville 4900 Up to 12V/320A
1	3093826	Screw, Hex Flange Head Cap	3	
2	3900634	Screw, Hex Flange Head Cap	3	M10 x 1.50 x 50
3	3903464	Screw, Hex Flange Head Cap	1	M10 x 1.50 x 40
4	3910901	Screw, Hex Flange Head Cap	1	M10 x 1.50 x 55
5	3933395	Pulley, Idler	1	
6	3935229	Shaft, Idler	1	
7	3970946	Shield, Dust	1	
8	3972807	Support, Alternator	1	
9	3972808	Pulley, Alternator	1	
10	3975326	Support, Idler Pulley	1	

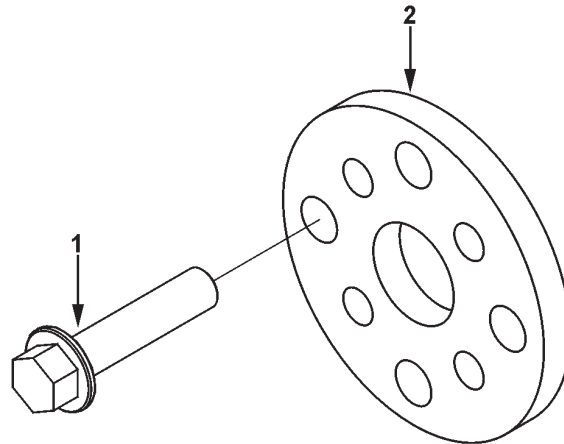


Ref No.	Part Number	Part Name	Req	Remarks
		FRONT ENGINE SUPPORT OPTION EM9253		MR - SUPPORT, FRONT ENGINE Support Location: Front Support Type: Pad Mount Type: 3 Hole Mounting Hole Size: 1 x 18mm, 2 x 22mm Mount Material: 41025 Crank Centerline to Mounting Surface (mm): -189 Maximum Damper Diameter (mm): 275.58
1	3902451	Screw, Hex Flange Head Cap	4	M12 x 1.75 x 90
2	3991895	Support, Front Engine	1	



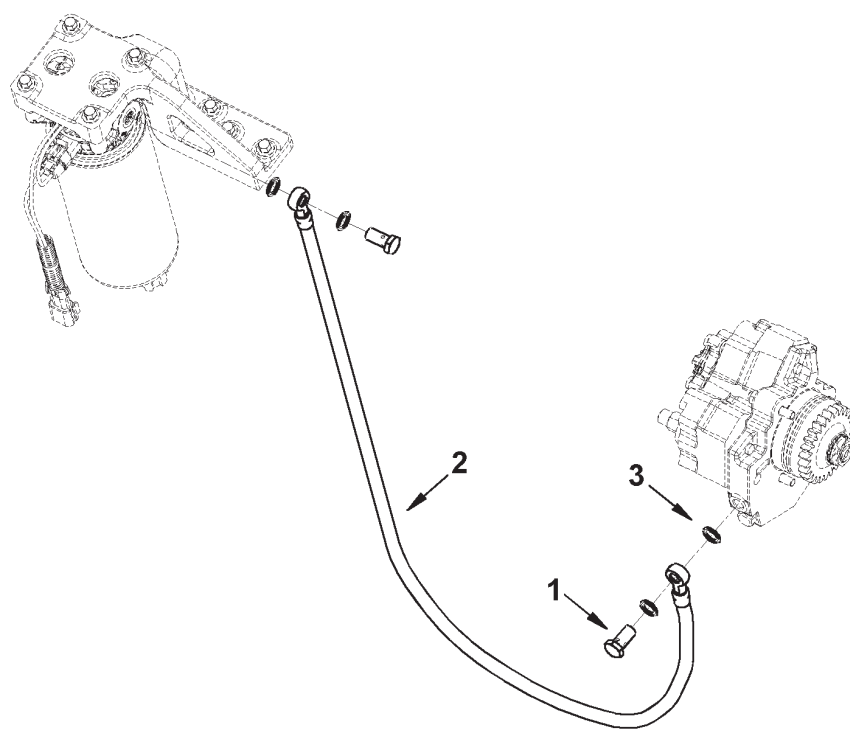
fa940gd

Ref No.	Part Number	Part Name	Req	Remarks
		FAN DRIVE OPTION FA9313		MR - DRIVE, FAN Design Phase: Pegasus/Elite II Engine Family: C & L Engine Cylinders: 6 Bearing Design: Single Double Row Dynamic Bearing Load Capability (lb): TBD Fan Ratio: 1.1:1 Fan Center (mm): 343 Support Mounting: 4 x M10 x 1.5 Fan Pulley Diameter Over 2.5mm Balls: 181 Fan Pulley Material: Spun Steel Fan Pulley Location (mm): Front Face of Block to Centerline of First Pulley Groove (mm): 57.1 Fan Pulley Mounting Flange Thickness (mm): 2.95 Accessory Drive Pulley Mounting Provision: M10 x 1.5 Accessory Drive Mounting Location (mm): From Front Face of Block to Mounting Sur- face: 128.3 Accessory Drive Mounting BCD (mm): 4 x 60 Pulley Groove Profile: Poly V 8 Rib K Fan Spacer Pilot Diameter (mm): 25.4 Required Drive Pulley Diameter Over 2.5mm Balls: 199.42 Drive Hardware Supplied: Fan Pulley and Fan Support
1	3942896 (3942895)	Support, Fan	1	
2	3910739	Support, Fan	1	
3	3911924	Bearing, Ball	1	
4	3923044	Hub, Fan	1	
5	3923044	Retainer, Fan Hub	1	
6	3907769	Screw, Hexagon Head Cap	1	M10 x 1.75 x 70
7	3035960	Ring, Retaining	2	
8	3900634	Screw, Hex Flange Head Cap	4	M10 x 1.50 x 50
	3926855	Pulley, Fan	1	



fa953gh

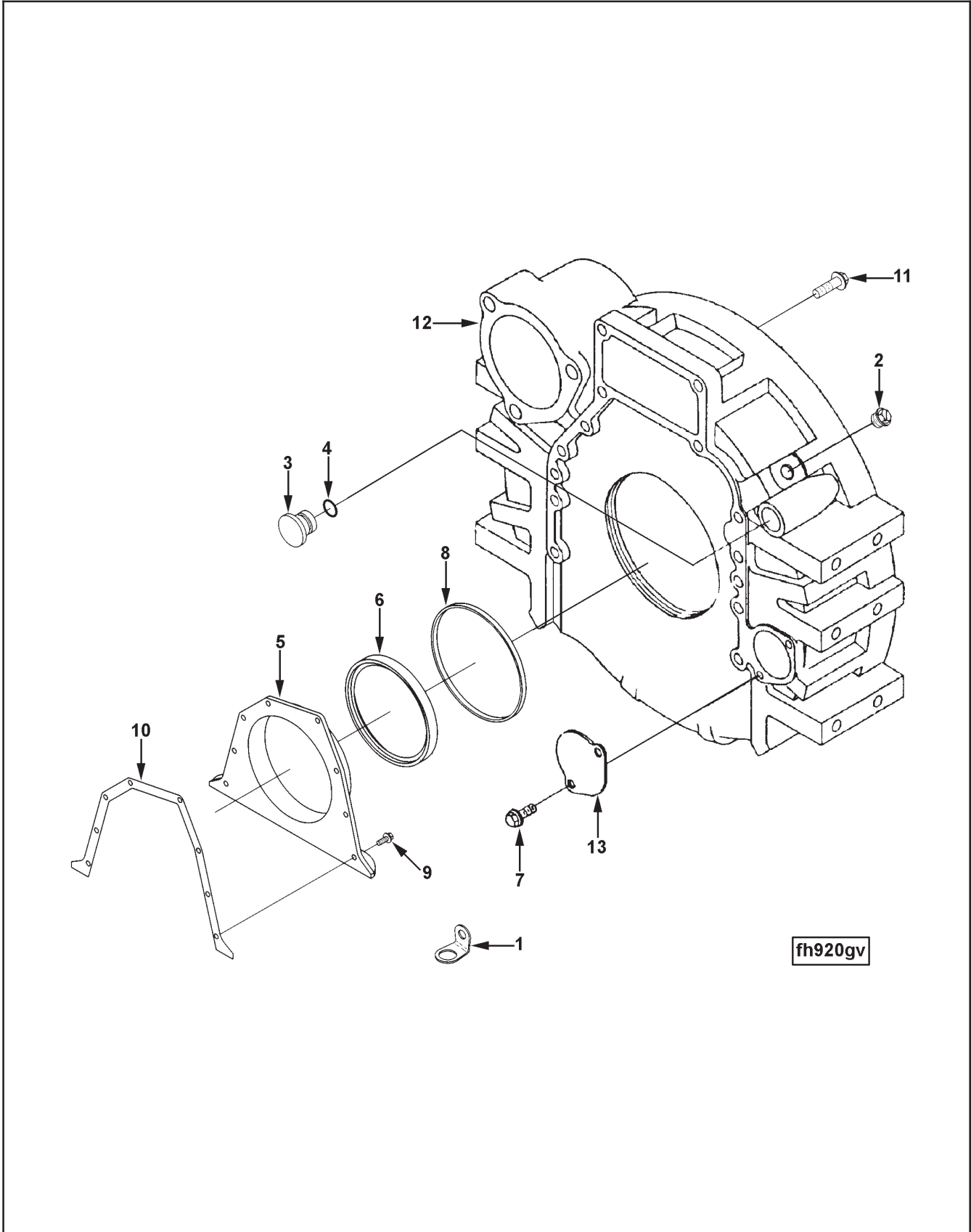
Ref No.	Part Number	Part Name	Req	Remarks
FAN DRIVE MOUNTING OPTION FA9734				
1	3902460	Screw, Hex Flange Head Cap	4	Thread size: M10 X 1.5 Capscrew length (mm): 25 Clamping plate thickness (mm): 8.4 Clamping plate bolt circle: 4 x 60mm. M10 x 1.50 x 25
2	3915490	Plate, Clamping	1	



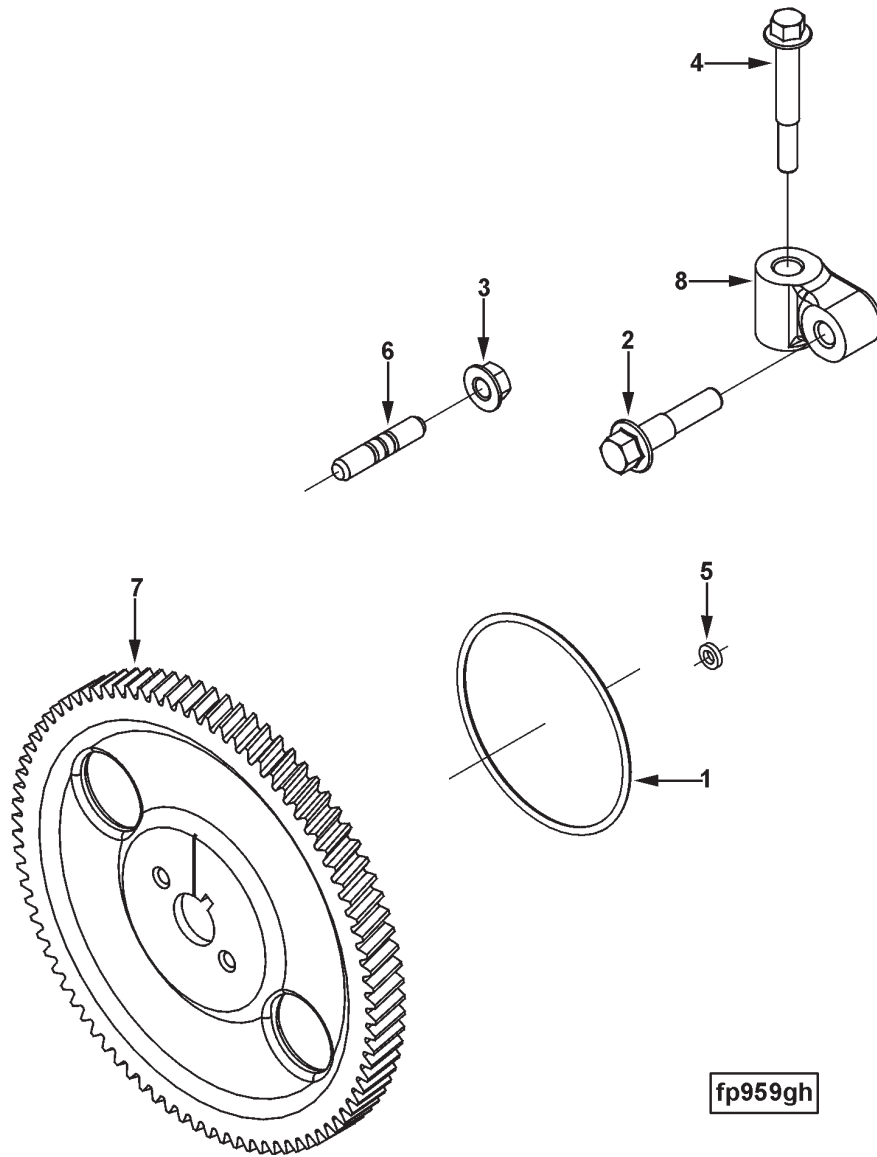
ff904zr

Ref No.	Part Number	Part Name	Req	Remarks
		FUEL FILTER PLUMBING OPTION FF9388		MR - FUEL FILTER PLUMBING Fuel Filter Location: Off Engine Hose Length (ft.): 6 Engine Family: C & L Series Design Phase: Pegasus
1	3903035	Screw, Banjo Connector	4	M12 x 1.50 x 24
2	3944458	Hose, Flexible	2	
3	3963990	Washer, Sealing	8	

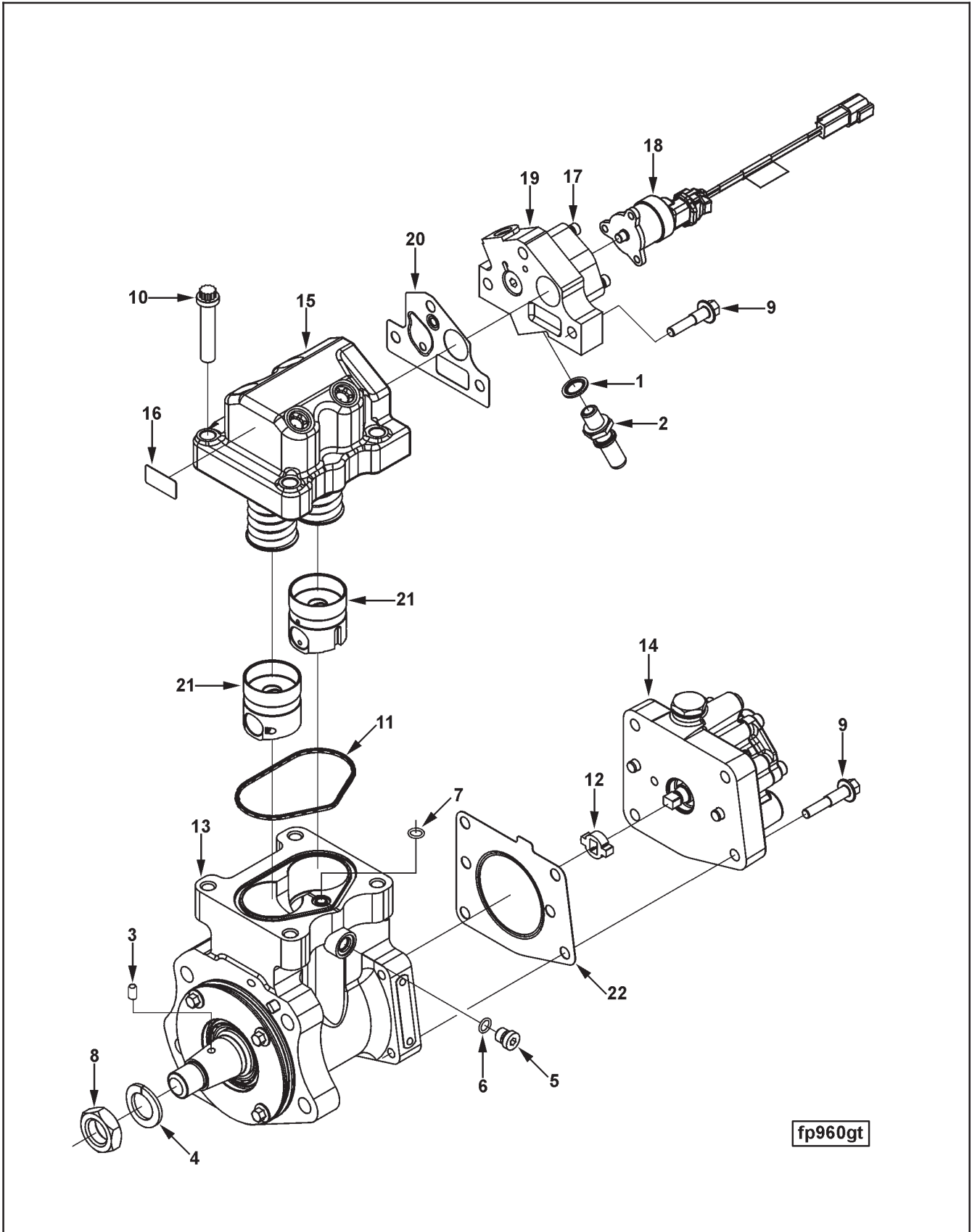
Ref No.	Part Number	Part Name	Req	Remarks
		FILTER,FUEL OPTION FF9590		Mr - fuel filter Element Type: Single element style: Spin-on drain provision: No fuel heater voltage: No water separator provision: No water in fuel sensor (wif): No water in fuel sensor (wif) harness provided: No water in fuel sensor harness length 9mm): N/A Location: Off Engine Mounted Hose Length (FT): 6 filter length (mm): 200 absolute filtration (microns): 3 media: Fleet- guard 934 stratapore- cellulose combinationY media Engine Family: C And "L" Series Design Phase: Pegasus.
	3089016	Screw, Hex Flange Head Cap	2	M10 x 1.50 x 35
	3900589	Nut, Hexagon Flange	2	M8 x 1.25
	3902114	Screw, Hex Flange Head Cap	4	M8 x 1.25 x 30
	3965155	Support, Filter	1	
	3969566	Bracket, Filter	1	
	3972686	Screw, Hex Flange Head Cap	2	M8 x 1.25 x 45
	3976312	Filter, Fuel	1	
	3678923	Plug, Threaded	2	M10 x 1.00 x 9.5
	(3678924)	Plug, Threaded	1	M10 x 1.00 x 9.5
	3678925	Seal, O Ring	1	M10 x 1.00
	3959613	Adapter, Filter Head	1	
	3969680	Head, Fuel Filter	1	
	3973232	Filter, Fuel	1	



Ref No.	Part Number	Part Name	Req	Remarks
		FLYWHEEL HOUSING OPTION FH9358		MR - FLYWHEEL HOUSING Item Supplied: Flywheel Housing Flywheel Housing SAE Size: 1 Clutch Type: Dry Starter Bore Position: 49 Flywheel to Block Mounting Pattern: 12 x M12 x 1.75 Starter Motor Flange SAE Type: SAE#3 3 Bolt 120 Starter Pilot Bore Diameter (mm): 92.05 Starter Bore Horizontal Distance (mm): 204.55 Starter Bore Vertical Distance (mm): 178.95 Starter Bore Center Distance (mm): 271.78 Starter Bore Angle From Horizontal Centerline: 41 Angle to Starter Bore Mounting Hole Pattern: 42 Starter Mounting Hole Thread Size: M12 Starter Mounting Face Offset: 0 Rear Engine PTO Included: No Material: Cast Iron; 40001 Engine Mount Type: Pad Mounting Pad Hole Description: 6 x M16 x 2 Mounting Pad Top Hole Location (mm): 104.78 Mounting Pad Angle: 0 Transmission Mounting Hole Thread/Count: 12 x 7/16 UNC Tachometer Drive Location Size: Quad 4, 3/4-16 Tachometer Sensor Mounting Hole Count: 1 Engine Family: C & L Series
2	3904181	Plug, Threaded	1	3/4 - 16 UNF
3	3910248	Plug, O Ring	1	
4	3910260	Seal, O Ring	1	
	3357700	Cover, Rear	1	Includes Installation Tools
5	3933384	Cover, Rear	1	
6	3970548	Seal, Oil	1	Sold In Higher Level Assy/Kit
7	3900225	Screw, Hexagon Head Cap	2	M8 x 1.25 x 16
8	3912473	Seal, Rectangular Ring	1	
9	3991306	Screw, Hex Flange Head Cap	8	M6 x 1.00 x 16
10	3939353	Gasket, Rear Cover	1	
11	3920447	Screw, Hex Flange Head Cap	12	M12 x 1.75 x 40
12	3353675	Housing, Flywheel	1	
13	3925234	Plate, Cover	1	

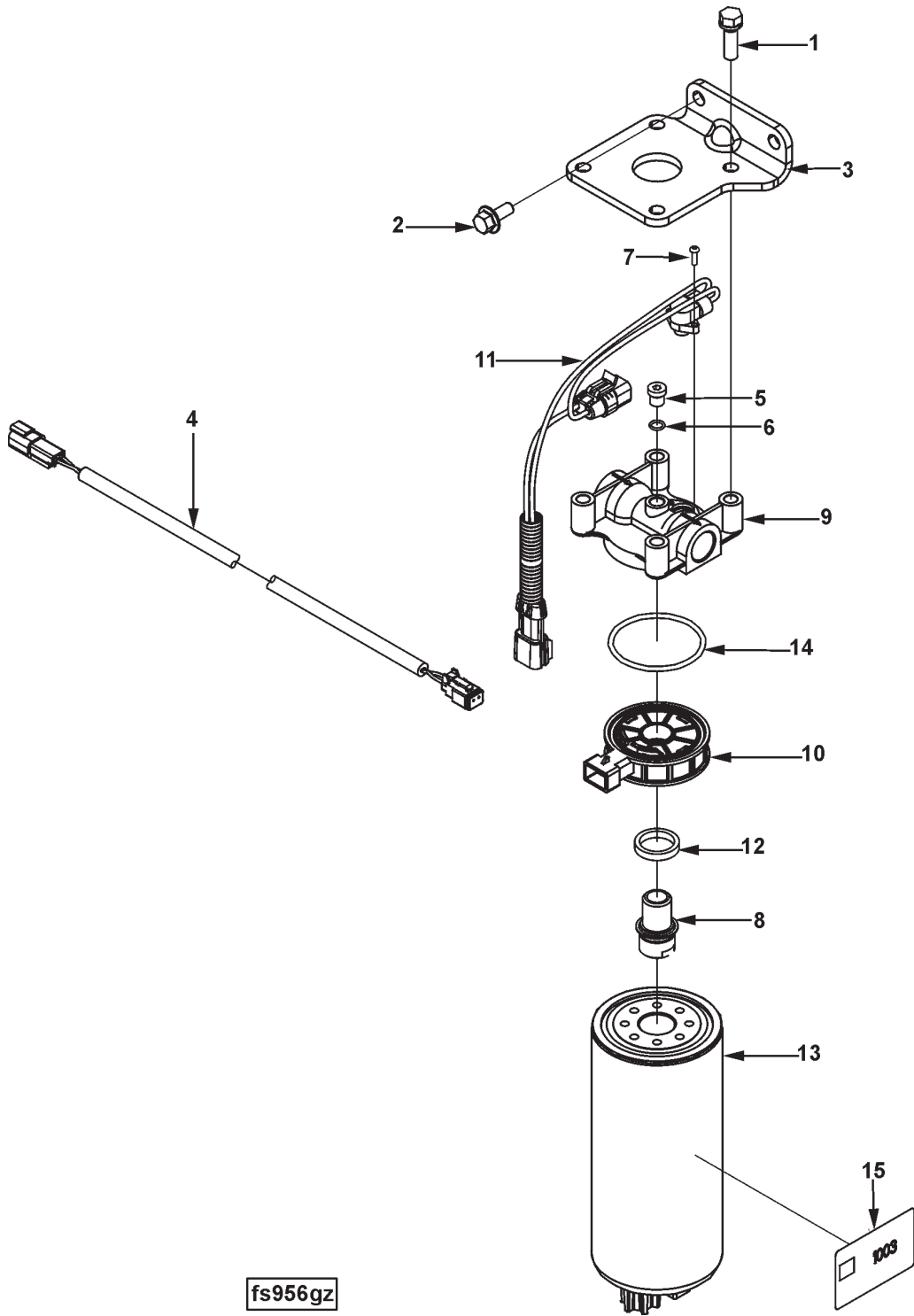


Ref No.	Part Number	Part Name	Req	Remarks
		FUEL PUMP MOUNTING OPTION FP90238		MR - MOUNTING, FUEL PUMP Fuel Pump Manufacturer/Model: CAPS II Engine Family: C & L Series Engine Design Phase: Pegasus Fuel Pump Mounting Pilot Bore Diameter (mm): 107 Fuel Pump Mounting Flange Bolt Circle Diameter (mm): 130 Fuel Pump Mounting Holes: 4 x M12 Thru
1	3899283	Seal, O Ring	1	
2	3902116	Screw, Hex Flange Head Cap	1	M12 x 1.75 x 50
3	3902662	Nut, Hexagon Flange	4	M10 x 1.50
4	3904446	Screw, Hex Flange Head Cap	1	M10 x 1.50 x 70
5	3926722	Seal, Rectangular Ring	1	
6	3937123	Stud	4	M10 x 1.50 (Both Ends) x 50
7	3942764	Gear, Fuel Pump	1	
8	3979337	Support, Fuel Pump	1	



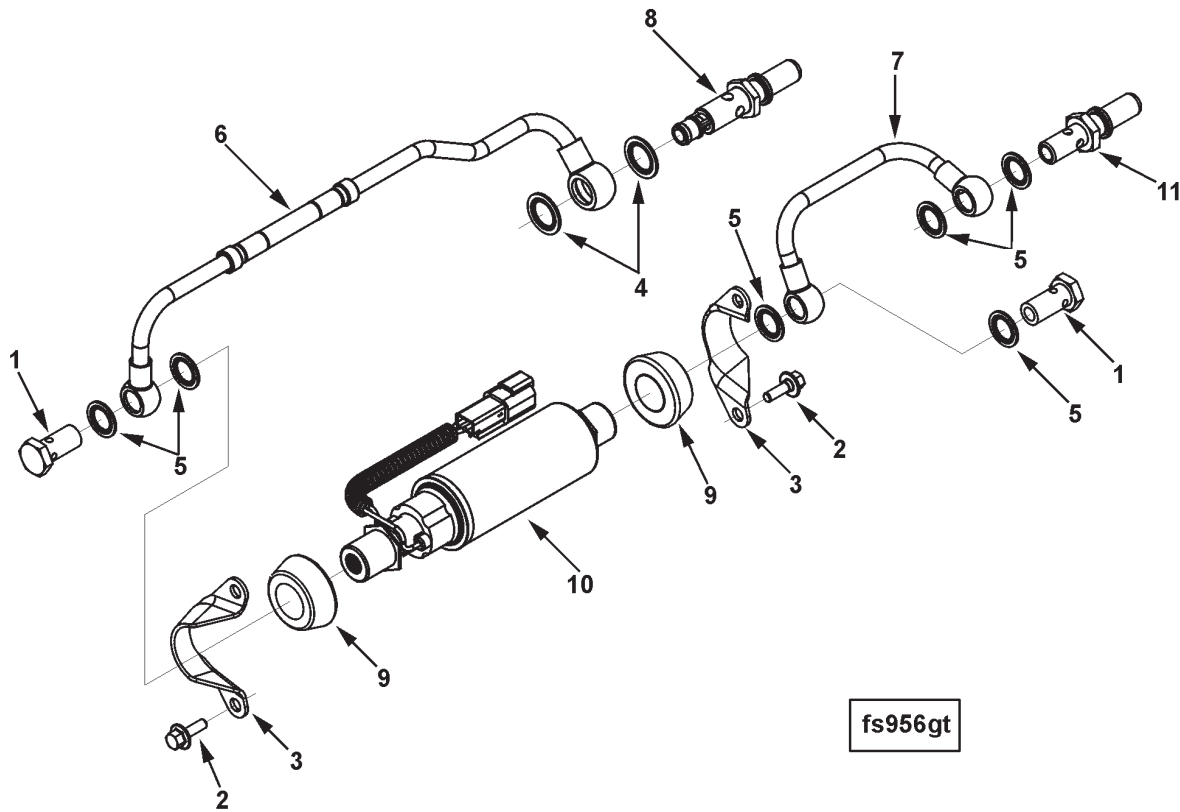
Ref No.	Part Number	Part Name	Req	Remarks
		FUEL PUMP OPTION FP90311		MR - PUMP, FUEL Fuel Pump Manufacturer / Model: Caps II Engine Family: C & L Series Engine Design Phase: Pegasus Fuel Pump Mounting Pilot Bore Diameter (mm): 107 Fuel Pump Mounting Flange Bolt Circle Diameter (mm): 130 Fuel Pump Mounting Holes: 4 x M12 Thru Unique Characteristics: Assembly Incorporates 1 Connect Fitting for Applications Requiring Off Engine (Remote) Mounted Fuel Filter
	3975375	Assembly, Fuel Pump	1	
1	3963990	Washer, Sealing	1	
2	3969822	Connection, Adapter	1	
	4921431	Pump, Fuel	1	Recon Equivalent 4921431 NX
3	3329899	Dowel, Pin	1	
4	3330252	Washer, Spring	1	
	3678923	Plug, Threaded	3	M10 x 1.00 x 9.5
5	(3678924)	Plug, Threaded	1	M10 x 1.00 x 9.5
6	3678925	Seal, O Ring	1	M10 x 1.00
7	3867640	Seal, O Ring	1	
8	3926593	Nut, Regular Hexagon Jam	1	
9	3928873	Screw, Hex Flange Head Cap	7	M8 x 1.25 x 40
10	3946085	Screw, Twelve Point Cap	4	
11	4010636	Seal, Fuel Pump Body	1	
12	4061755	Hub, Distributor Drive	1	
13	(4088604)	Body, Fuel Pump	1	Recon Equivalent 4088604 NX
14	(4088866)	Pump, Fuel	1	
15	4902732	Head, Fuel Pump	1	Recon Equivalent 4902732 NX
16	(4903291)	Tag, Identificati	1	
	4921432	Adapter, Fuel Pump	1	
17	4088595	Screw, Socket Head Cap	3	
18	(4903523)	Actuator, Etr Fuel Control	1	Recon Equivalent 4903523 NX
19	(4921433)	Adapter, Fuel Pump	1	Recon Equivalent 4921433 NX
20	4921436	Gasket, Fuel Pump	1	
21	4921732	Tappet, Pump	2	
22	4928575	Gasket, Fuel Pump	1	

Ref No.	Part Number	Part Name	Req	Remarks
		RATING,FUEL OPTION FR91524		

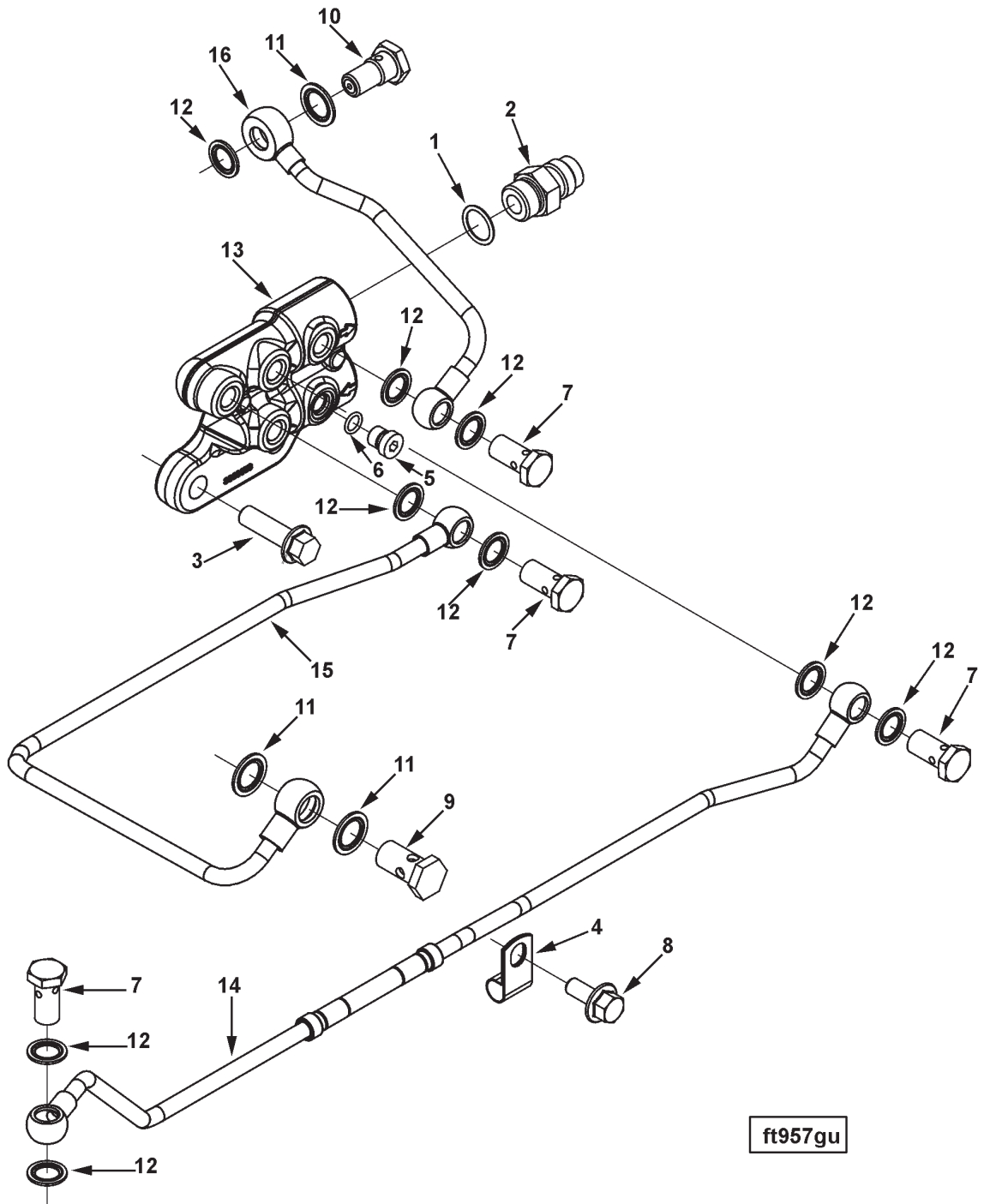


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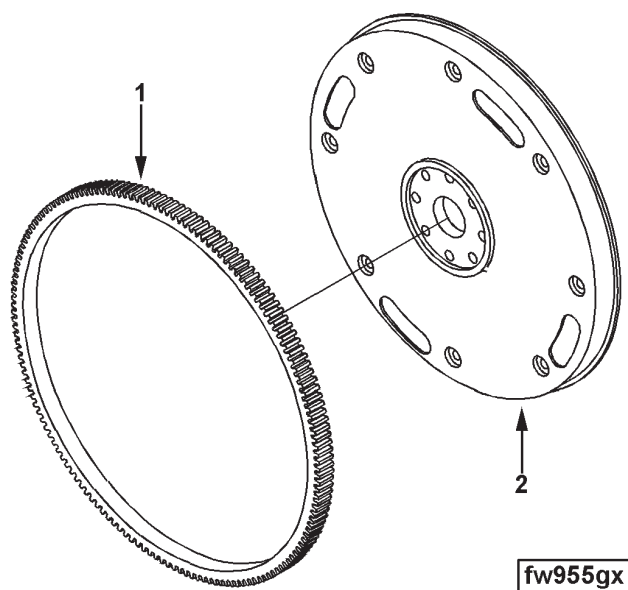
Ref No.	Part Number	Part Name	Req	Remarks
		FUEL SYSTEM ACCESSORIES OPTION FS9357		MR - FUEL SYSTEM ACCESSORY Pre-Filter Before Lift pump Element Type: Single Element Style: Spin-On Drain Provision: Yes Fuel Heater Voltage: 24V Water Separator Provision : Yes Water In Fuel Sensor (WIF) Provision: Yes Water In Fuel Sensor (WIF) Provided: No Location: Off Engine, Customer Mounted Absolute Filtration (Micron) : 10 Engine Family: C & L Design Phase: Pegasus Alpha
1	3010596	Screw, Captive Washer Cap	4	3/8 - 16 x 1 1/4 in.
2	3903990	Screw, Hex Flange Head Cap	2	M10 x 1.50 x 20
3	3944845	Bracket, Filter	1	
4	3954786	Harness, Wiring	1	
	3959611	Filter, Fuel	1	
	3678923	Plug, Threaded	1	M10 x 1.00 x 9.5
5	(3678924)	Plug, Threaded	1	M10 x 1.00 x 9.5
6	3678925	Seal, O Ring	1	M10 x 1.00
7	3847494	Screw, Self Tapping Metal	2	
8	3943780	Adapter, Filter Head	1	Mechelen Parts
9	3944986	Head, Fuel Filter	1	Buy Directly from Fleetguard Fleetguard
10	4897838	Element, Heating	1	Fleetguard Part
11	3954905	Sensor, Temperature	1	Buy Directly from Fleetguard
12	(3954907)	Seal, Rectangular Ring	1	
13	4070801	Filter, Fuel	1	Buy Directly from Fleetguard Fleetguard
14	4898876	Seal, O Ring	1	
15	(4082671)	Decal	1	



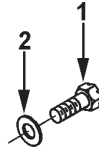
Ref No.	Part Number	Part Name	Req	Remarks
		FUEL TRANSFER PUMP OPTION FS9746		MR - FUEL TRANSFER PUMP Engine Design Phase: Pegasus Engine Cylinders: 6 Engine Family: C & L Series Fuel Transfer Pump Voltage: 24
1	3903035	Screw, Banjo Connector	2	M12 x 1.50 x 24
2	3913638	Screw, Hex Flange Head Cap	4	M6 x 1.00 x 16
3	3955110	Bracket, Transfer Pump	2	
4	3963988	Washer, Sealing	2	M14
5	3963990	Washer, Sealing	6	
6	3966317	Tube, Fuel Supply	1	
7	3966320	Tube, Fuel Supply	1	
8	3967782	Valve, Check	1	
	3968190	Pump, Fuel Transfer	1	
9	3955114	Isolator, Vibration	2	
10	(3968189)	Pump, Fuel Transfer	1	Sold In Higher Level Assy/Kit
11	3972088	Connection, Adapter	1	



Ref No.	Part Number	Part Name	Req	Remarks
		FUEL PLUMBING OPTION FT9028		MR - PLUMBING, FUEL Fuel Pump Drain Location: Centerline of Crank to OEM Attachment (mm): 484.3 Centerline of Engine to OEM Attachment (mm): 261.3 Front Face of Block to OEM Attachment (mm): -140.3 Common Rail Drain Valve Location: Centerline of crank to OEM attachment (mm): 401.02 Centerline of Engine to OEM Attachment (mm): 308.40 Front Face of Block to OEM Attachment (mm): -503.00 Cylinder Head Drain Location: Centerline of Crank to OEM Attachment (mm): 440.52 Centerline of Engine OEM Attachment (mm): 15.50 Front Face of Block to OEM Attachment (mm): -851.00 OEM Interface Location: Centerline of Crank to OEM Attachment (mm): 326 Centerline of Engine to OEM Attachment (mm): 129 Front Face of Block to OEM Attachment (mm): -886.63 OEM Attachment: 3/4-16-UNF, 45 Degree Flare Drain Fitting Type: Straight
	3061833	Union, Male	1	Service Replacement O-Ring
1	3046201	Seal, O Ring	1	
2	(3061832)	Union, Male	1	Use 3046201 Replacement Seal
3	3089016	Screw, Hex Flange Head Cap	2	M10 x 1.50 x 35
4	3629452	Clip	1	
	3678923	Plug, Threaded	1	
5	(3678924)	Plug, Threaded	1	M10 x 1.00 x 9.5
6	3678925	Seal, O Ring	1	M10 x 1.00
7	3903035	Screw, Banjo Connector	4	M12 x 1.50 x 24
8	3903990	Screw, Hex Flange Head Cap	1	M10 x 1.50 x 20
9	3924725	Screw, Banjo Connector	1	M14 x 1.50 x 26
10	3957290	Valve, Check	1	
11	3963988	Washer, Sealing	3	M14
12	3963990	Washer, Sealing	9	
13	3966656	Connection, Fuel Block	1	
14	3968424	Tube, Fuel Drain	1	
15	3968426	Tube, Fuel Drain	1	
16	3968427	Tube, Fuel Drain	1	

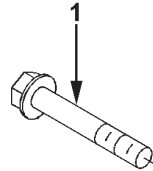


Ref No.	Part Number	Part Name	Req	Remarks
		FLYWHEEL OPTION FW9538		MR - FLYWHEEL Ring Gear Diametral Pitch: 8/10 Ring Gear Tooth Count: 158 Ring Gear Outside Diameter (mm): 506.22 Supplier: Cummins Type: Flywheel Max Full Load Rated Speed (Not to Exceed) 3600 Flywheel Inertia: 0.74 Flywheel Mounting Flange to Ring Gear Leading Edge (mm): 16.3 Mounting Web Thickness (mm): 16 Pilot Bearing Bore Diameter (mm): 51.981 Clutch/T.C. Mounting Bolt Circle Count: Single Clutch/T.C. Mounting Hole Count: 8 Clutch/T.C. Bolt Circle Diameter (mm): 406.4 Clutch/T.C. Mounting Hole Spacing: Equal Clutch/T.C. Mounting Hole Size: 12mm Thru 2nd Clutch/T.C. Mounting Hole Count: N/A N/A 2nd Clutch/T.C. Bolt Circle Diameter (mm): N/A 2nd Clutch/T.C. Mounting Hole Spacing: N/A 2nd Clutch/T.C. Mounting Hole Size: N/A Cummins Material Standard: 41044 Intended Drive Hardware: Clark 500 Series Transmission
1	3931399	Flywheel	1	
	3907308	Gear, Flywheel Ring	1	
2	3931260	Flywheel	1	



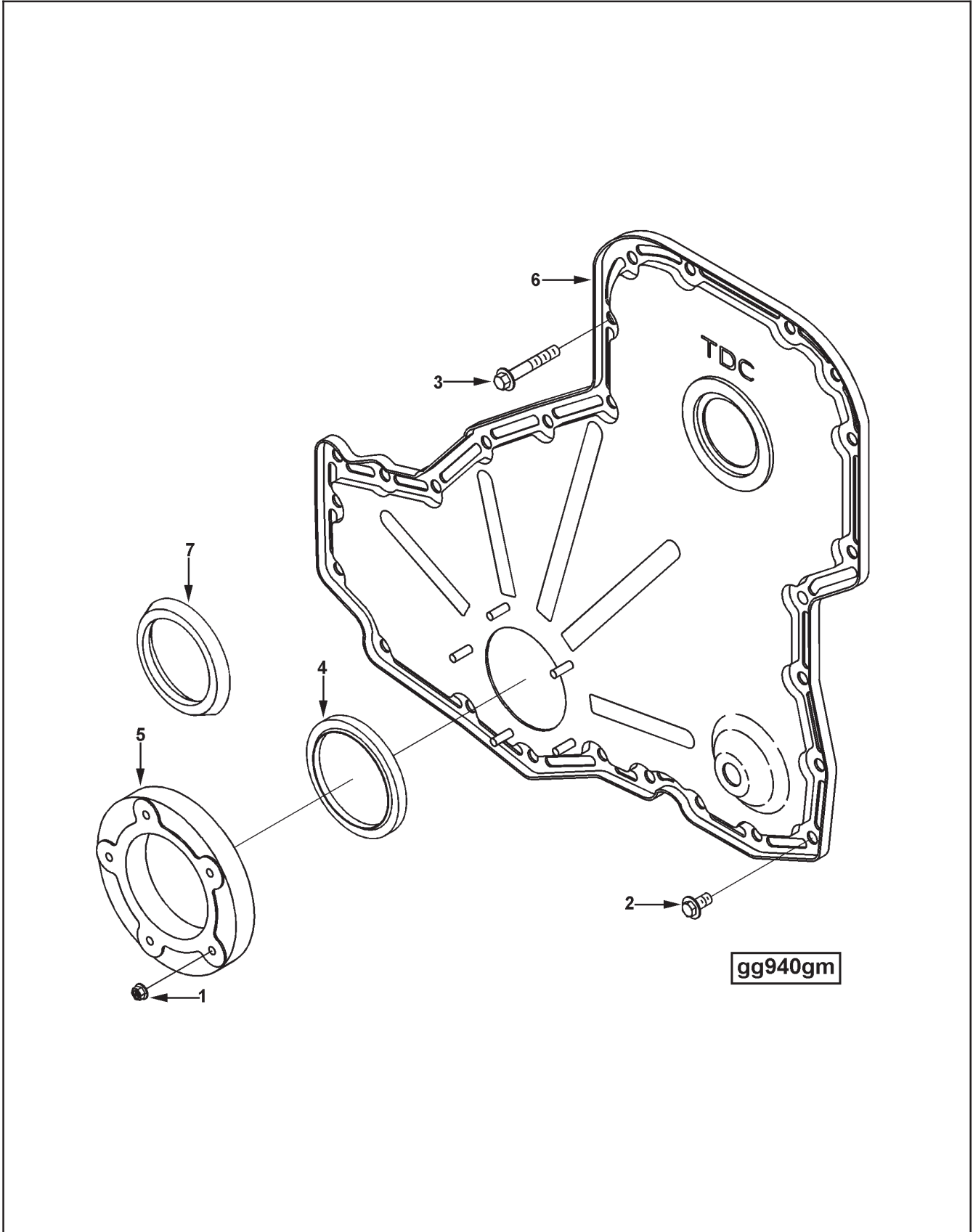
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Ref No.	Part Number	Part Name	Req	Remarks
		FLYWHEEL MOUNTING OPTION FW9704		MR - MOUNTING, FLYWHEEL Bolt Length (mm): 32 Flywheel Web Thickness (mm): 16 To Suit REPTO: No
1	3901395	Screw, Hexagon Head Cap	8	M12 x 1.25 x 32
2	3900269	Washer, Plain	8	M12

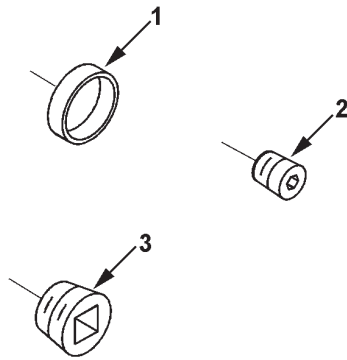


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Ref No.	Part Number	Part Name	Req	Remarks
1	3925883	<p style="text-align: center;">GEAR COVER MOUNTING OPTION GG9804</p> <p>Screw, Hex Flange Head Cap</p>	2	<p>MR - MOUNTING, GEAR COVER Accessory Support Attachment Supplied: None 2 Capscrews Supplied M8 x 1.25 x 16</p>



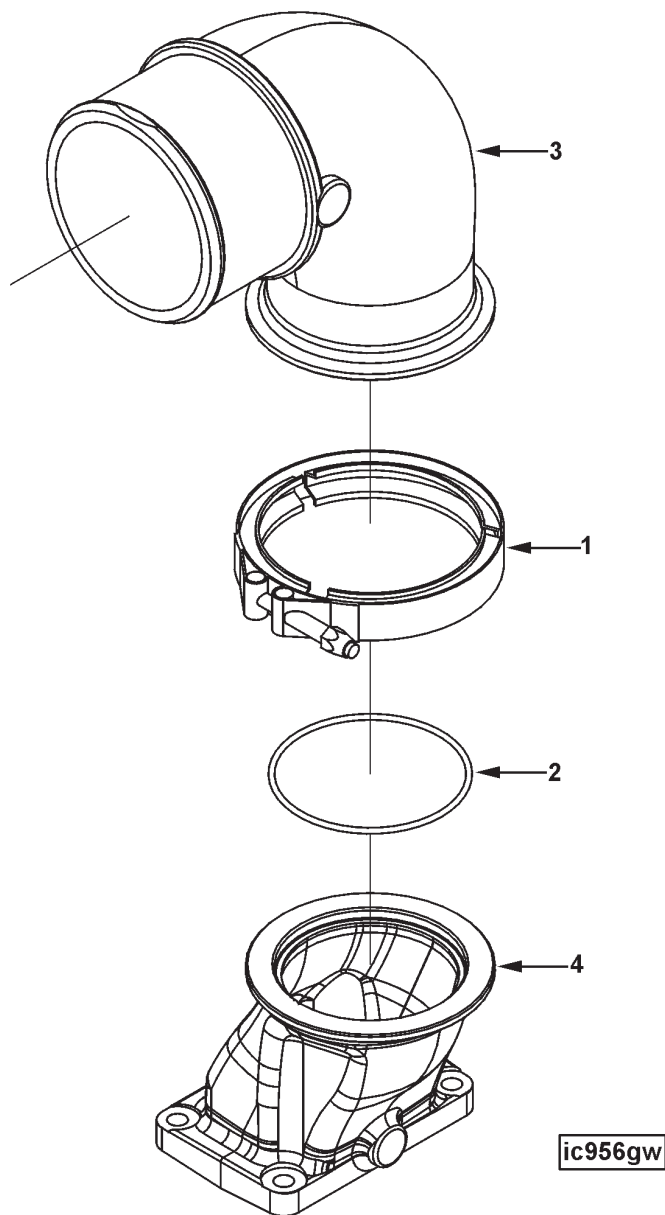
Ref No.	Part Number	Part Name	Req	Remarks
		FRONT GEAR COVER OPTION GG9829		MR - FRONT GEAR COVER Breather Provision: No To Suit Gear Housings with the Folling: Centerline of Crank to Centerline of PTO Provision (mm): 39.5 Centerline of Engine to Centerline of PTO Provision (mm): 227.4 Drive Ratio: 1:1 Gear Housing Pilot Bore (mm): 114.7 Dust Shield : Yes
1	3938077	Nut, Lock	5	
2	3925883	Screw, Hex Flange Head Cap	13	M8 x 1.25 x 16
3	3926863	Screw, Hex Flange Head Cap	11	M8 x 1.25 x 50
	(3942535)	Seal, Oil	1	Sold In Higher Level Assy/Kit
4	3921927	Seal, Oil	1	Sold In Higher Level Assy/Kit
5	3941786	Carrier, Seal	1	
6	3958112	Cover, Gear	1	
7	3918113	Shield, Dust	1	



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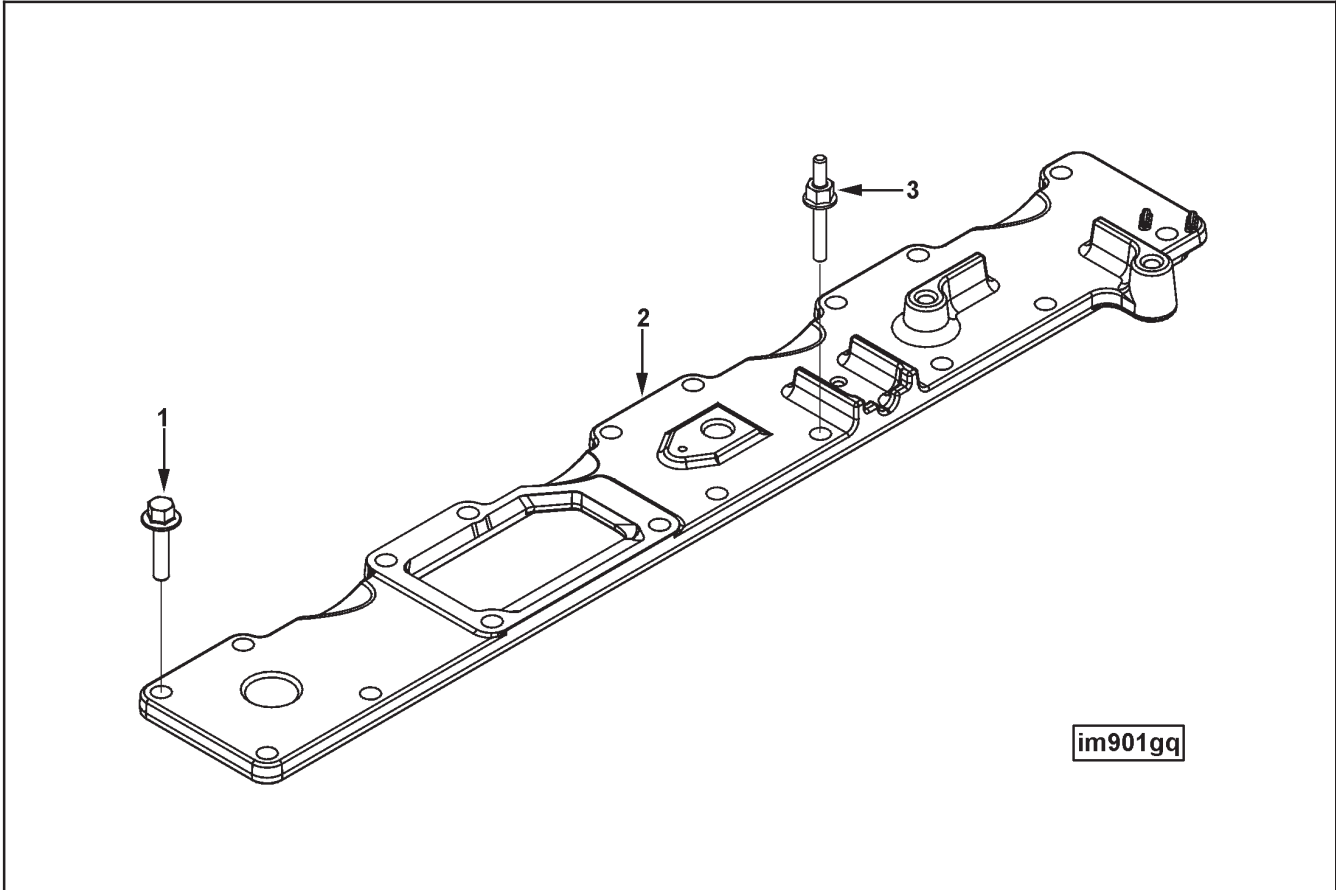
Ref No.	Part Number	Part Name	Req	Remarks
CABIN HEATER PLUMBING				
OPTION HC9046				
				MR - PLUMBING, CABIN HEATER Plumbing Supplier: Customer Available Plumbing Ports for Customer Adaptation Cylinder Block: (2x 3/4 in. NPTF, 2 x 1.19 in. Thru)
1	156075	Plug, Expansion	2	1 3/16 in.
2	3008468	Plug, Pipe	5	1/2 NPT
3	3008469	Plug, Pipe	3	3/4 NPT

Ref No.	Part Number	Part Name	Req	Remarks
		PUMP,AUXILIARY OPTION HD9103		Mr - auxiliary pump Customer supplied hydraulic pump rear flange SAE: 101-2 (SAE b) Accessory Drive Type: SAE 22-4.

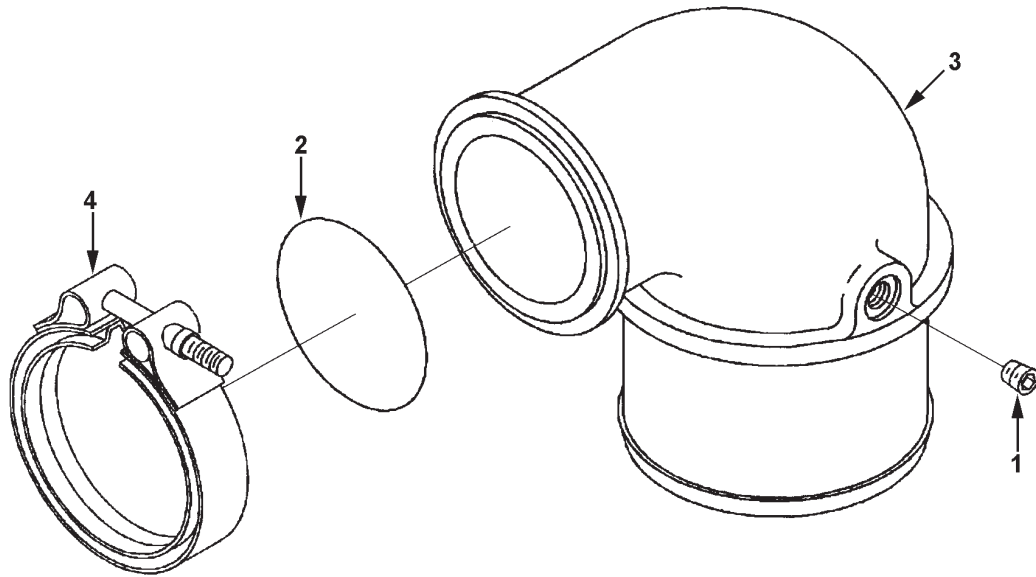


Ref No.	Part Number	Part Name	Req	Remarks
		AIR INTAKE CONNECTION OPTION IC9367		MR - CONNECTION, AIR INTAKE Design Phase: Pegasus Engine Family: C & L Series Engine Cylinders: 6 Engine Aspiration: Charge Air Cooled Connection Supplier: Cummins Connection Style: 90 Degree Elbow Connection Orientation: Pointing Forward
1	3067979	Clamp, V Band	1	
2	3682177	Seal, O Ring	1	
3	3682674	Connection, Air Transfer	1	
4	3968474	Connection, Air Intake	1	

Ref No.	Part Number	Part Name	Req	Remarks
	3902112 3975487	MOUNTING,INT CONNECTION OPTION IC9427 Screw, Hex Flange Head Cap Gasket, Connection	4 1	M8 x 1.25 x 80

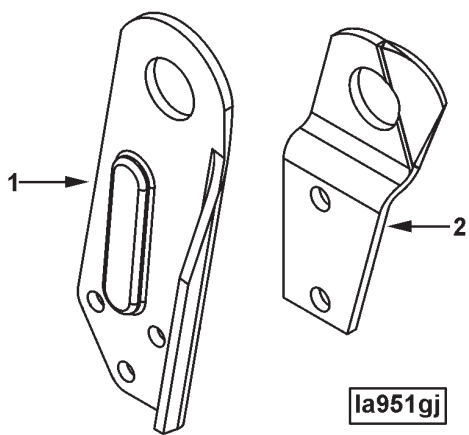


Ref No.	Part Number	Part Name	Req	Remarks
		AIR INTAKE MANIFOLD OPTION IM9077		MR - MANIFOLD, AIR INTAKE Manifold Mounting Hole Pattern: 14 x 9.5mm Thru Holes 64.5 x Irregular Spacing Engine Cylinders: 6 Integral Intake Connection: No Integral Air Heater: No Mating Flange Bolt Hole Description: 4 x 9.55mm Thru Holes 64.5 Irregular Spacing Cover Plate/Intake Flange Thickness (mm): 11 Unique Characteristics: To Accommodate Use of Combination Pressure and Temp Sensor
1	3902114	Screw, Hex Flange Head Cap	13	M8 x 1.25 x 30
2	3976716	Cover, Intake Manifold	1	
3	3999620	Screw, Hex Flange Head Cap	1	

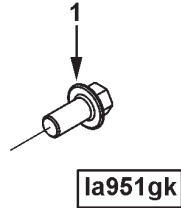


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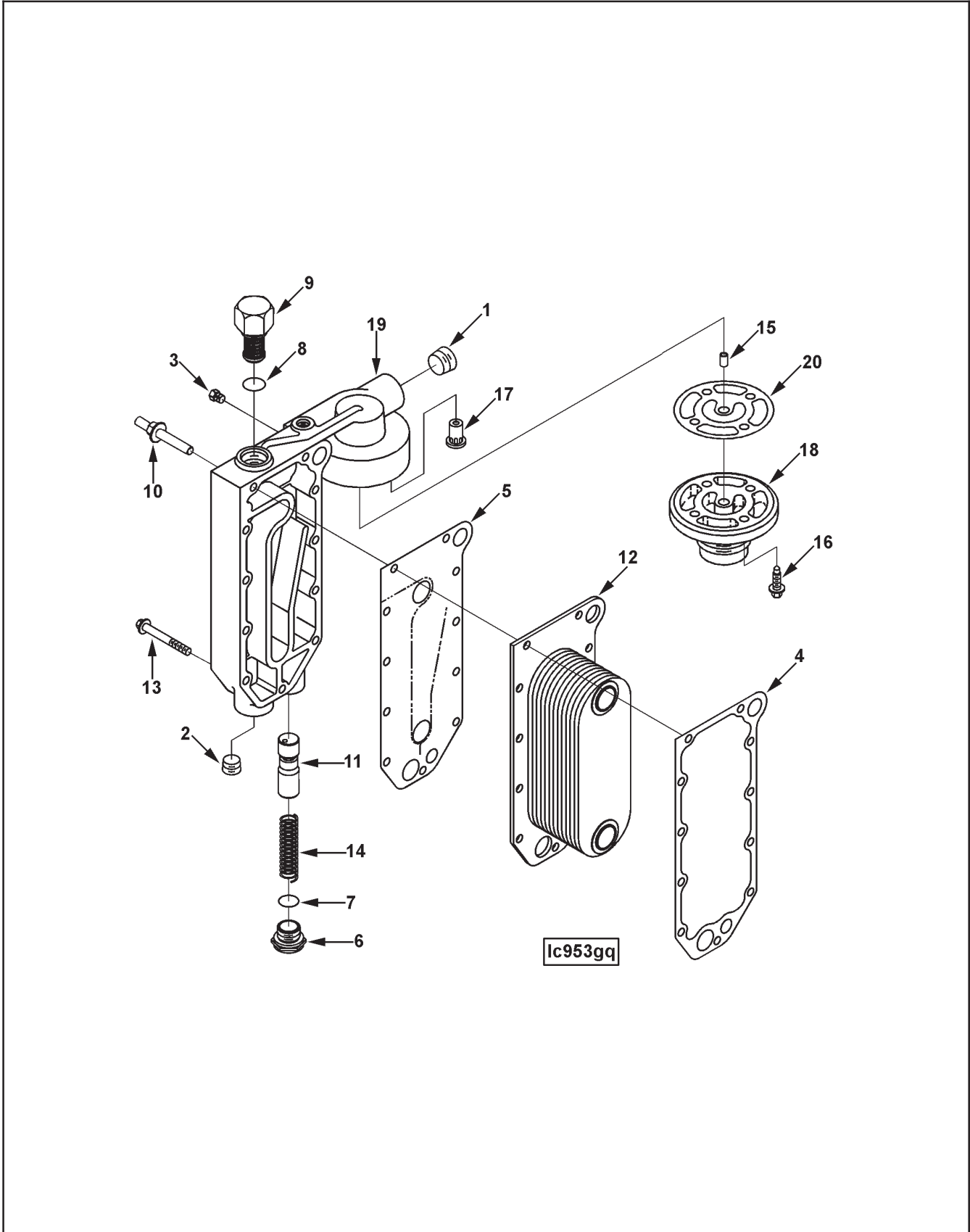
Ref No.	Part Number	Part Name	Req	Remarks
		AIR TRANSFER CONNECTION OPTION IT9043		MR - CONNECTION, AIR TRANSFER Connection Supplier: Cummins Connection Type: 90 Degree Elbow Orientation: Rotatable Engine Interface Flange Type: Half Marmon Engine Interface Flange Diameter (mm): 73.85 (3 in.) Engine Interface Flange Thickness (mm): 6.4 OEM Interface Connection Diameter (mm): 101.5 OEM Interface Connection Clamping Surface (mm): 56.5 Turbocharger Interface to Centerline OEM Interface (mm): 95.2 OEM Interface to Centerline Turbocharger Interface (mm): 123 Customer Tapping: 2 x 1/8 Pipe Tap Thru Supply Method: Mounted
1	3008465	Plug, Pipe	2	1/8 NPT
2	3883284	Seal, O Ring	1	
3	3883977	Pipe, Air Transfer	1	
4	3972681	Clamp, V Band	1	



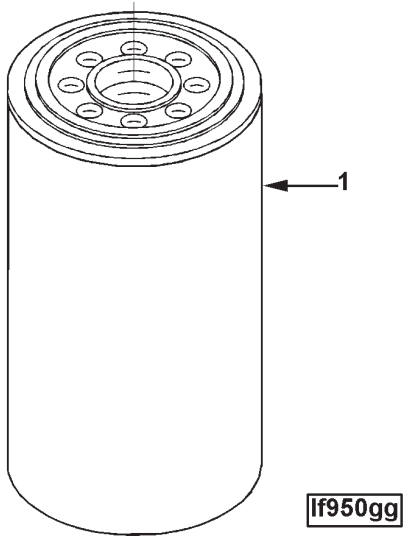
Ref No.	Part Number	Part Name	Req	Remarks
		LIFTING ARRANGEMENT OPTION LA9118		MR - LIFTING ARRANGEMENT Front Brack Location: Front Face of Cylinder Brackets Provided: Front and Rear Centerline of Engine to Eye Centerline (mm): -113 Front Bracket Location: Front Face of Cylinder Block Centerline of Engine to Eye Centerline (mm): + 496 Centerline of Crankshaft to Eye Centerline (mm): + 32 Rear Bracket Location: Rear Face of Cylinder Head Centerline of Engine to Eye Centerline (mm): + 105.5 Centerline of Crankshaft to Eye Centerline (mm): + 504.5 Fromt Front Face of Block to Eye Centerline (mm): -871.8 Distance Between Centerlines (mm): 901 Engine Family: C & L Series Max Lifting Load (lbs.): 2875
1	3959113	Bracket, Lifting	1	
2	3959114	Bracket, Lifting	1	



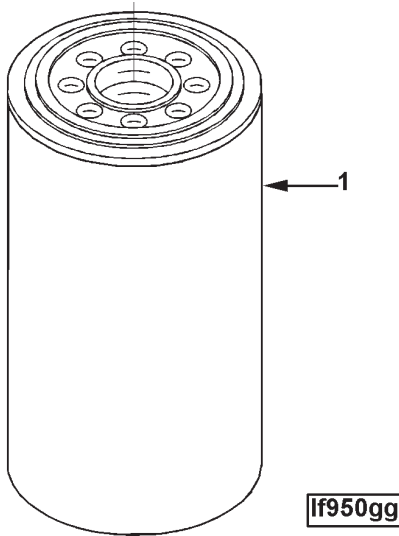
Ref No.	Part Number	Part Name	Req	Remarks
1	3901249	<p style="text-align: center;">LIFTING ARRANGEMENT OPTION LA9121</p> <p>Screw, Hex Flange Head Cap</p>	2	<p>MR - MOUNTING, LIFTING BRACKET Rear Bracket Mounting: Yes, 2 Screws Front Bracket Mounting: No Unique Characteristics: For Use When FEAD Arrangement Requires a Three Bolt Idler Support to be Mounted Along With the Front Lifting Bracket Bolts Structured with Idlers Support in EH Option</p> <p>M12 x 1.75 x 25</p>



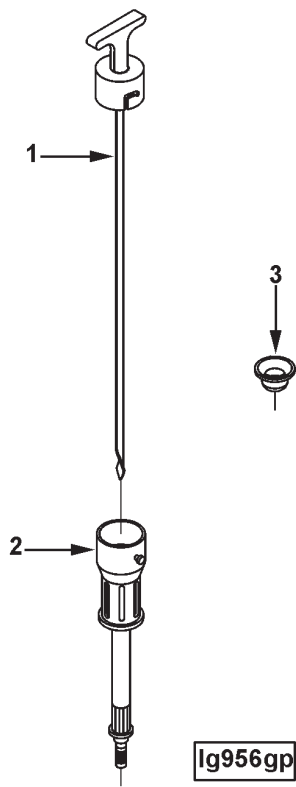
Ref No.	Part Number	Part Name	Req	Remarks
		ENGINE OIL COOLER OPTION LC9765		MR - COOLER, ENGINE OIL Type: 15 Plate Mounting Location: Block Cavity Exhaust Side Pressure Relief Valve: Yes Oil Flow Thermostat: Yes Unique Characteristics: Includes 3 Studs for OEM Attachment Provision
1	3008468	Plug, Pipe	1	1/2 NPT
2	3008469	Plug, Pipe	1	3/4 NPT
3	3906619	Plug, Pipe	1	1/8 NPT
4	3918174	Gasket, Oil Cooler Core	1	
5	3929011	Gasket, Lub Oil Clr Cover	1	
	3931084	Plug, Threaded	1	
6	(3930910)	Plug, Threaded	1	
7	3930911	Seal, O Ring	1	
	3934410	Valve, Bypass	1	
8	3201562	Seal, O Ring	1	
9	(3934278)	Valve, Bypass	1	
10	3944874	Screw, Hex Flange Head Cap	3	
11	3945967	Plunger, Prs Regulator	1	
12	3966365	Core, Cooler	1	
13	3966976	Screw, Hex Flange Head Cap	8	
14	3970655	Spring, Compression	1	
	3974326	Head, Lub Oil Filter	1	
15	118227	Dowel, Ring	1	
16	3907860	Screw, Hex Flange Head Cap	4	M8 x 1.25 x 25
17	3936365	Valve, Pressure Relief	1	
18	(3966885)	Head, Lub Oil Filter	1	
19	(3974324)	Cover, Lub Oil Cooler	1	
20	3992092	Gasket, Connection	1	



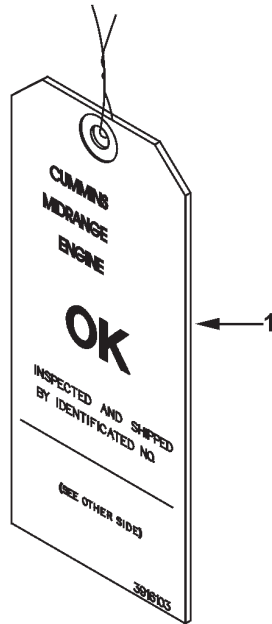
Ref No.	Part Number	Part Name	Req	Remarks
1	3401544	<p style="text-align: center;">LUBE OIL FILTER OPTION LF9093</p> <p>Element, Lub Oil Filter</p>	1	<p>MR - FILTER, LUBRICATING OIL</p> <p>Design Phase: Elite II Engine Family: C Engine Cylinders: 6 Oil Filter Location: On Engine From Engine Centerline (mm): -219.4 From Front Face of Block (mm): -359.5 Mounted Orientation: Vertical Filter Type: Combo Venturi Filter Model: LF9009 Filter Length (mm): 299.5 Filter Diameter (mm): 118.4 Removal Distance (mm): 46.74 Mounting Thread Size: 2 1/4 - 12 UNS</p>



Ref No.	Part Number	Part Name	Req	Remarks
1	3401544	<p style="text-align: center;">LUBE OIL FILTER OPTION LF9130</p> <p>Element, Lub Oil Filter</p>	1	<p>ME - FILTER, LUBRICATING OIL</p> <p>Engine Family: C & L Series Engine Cylinders: 6 Oil Filter Location: On Engine From Engine Centerline (mm): -219.4 From Crank Centerline (mm): -16.5 From Front Face of Block (mm): -359.5 Mounted Orientation: Vertical Filter Type: Combo Venturi Filter Model: LF9009 Filter Length (mm): 299.5 Filter Diameter (mm): 118.4 Removal Distance (mm): 42 Component Logo: None</p>

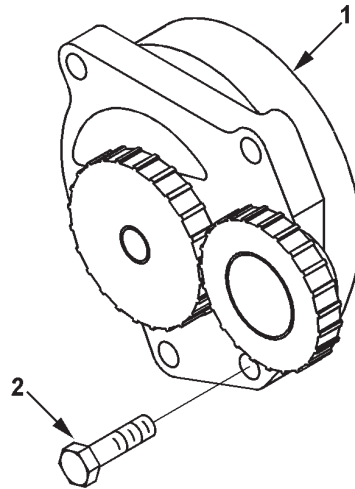


Ref No.	Part Number	Part Name	Req	Remarks
		OIL LEVEL GAUGE OPTION LG90104		MR - GAUGE, OIL LEVEL Dipstick Supplier: Cummins Dipstick Location: Exhaust Side Dipstick Pull Location: From Crank Centerline (mm): 207.2 From Engine Centerline (mm): 322 From Front Face of Block (mm): 428 Dipstick Calibration: BFOB - Full/Low 0-5 Deg: 76/96 Power Angle (Deg): 0 Engine Tile (Deg): 0 Tube Effective Length (mm): 308 Engine Family: C & L Series
1	(3975724) 3975720	Dipstick	1	
2	3968610	Dipstick Tube, Oil Gauge	1	
3	3943808	Plug, Expansion	1	



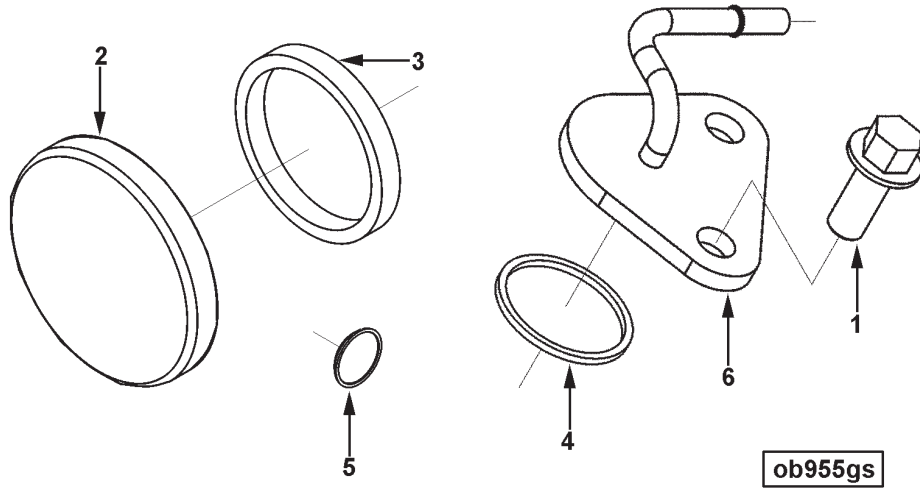
Io951gb

Ref No.	Part Number	Part Name	Req	Remarks
1	(3916103)	<p style="text-align: center;">LUBE OIL OPTION LO9701</p> <p>Tag, Instruction</p>	1	<p>MR - TAG, LUBRICATING OIL Tag Identification: No Oil Tag Location: Front Lifting Bracket In Place of P/N 3916103: BZL May Use P/N 3352918 CMEP May Use P/N 3967353</p>

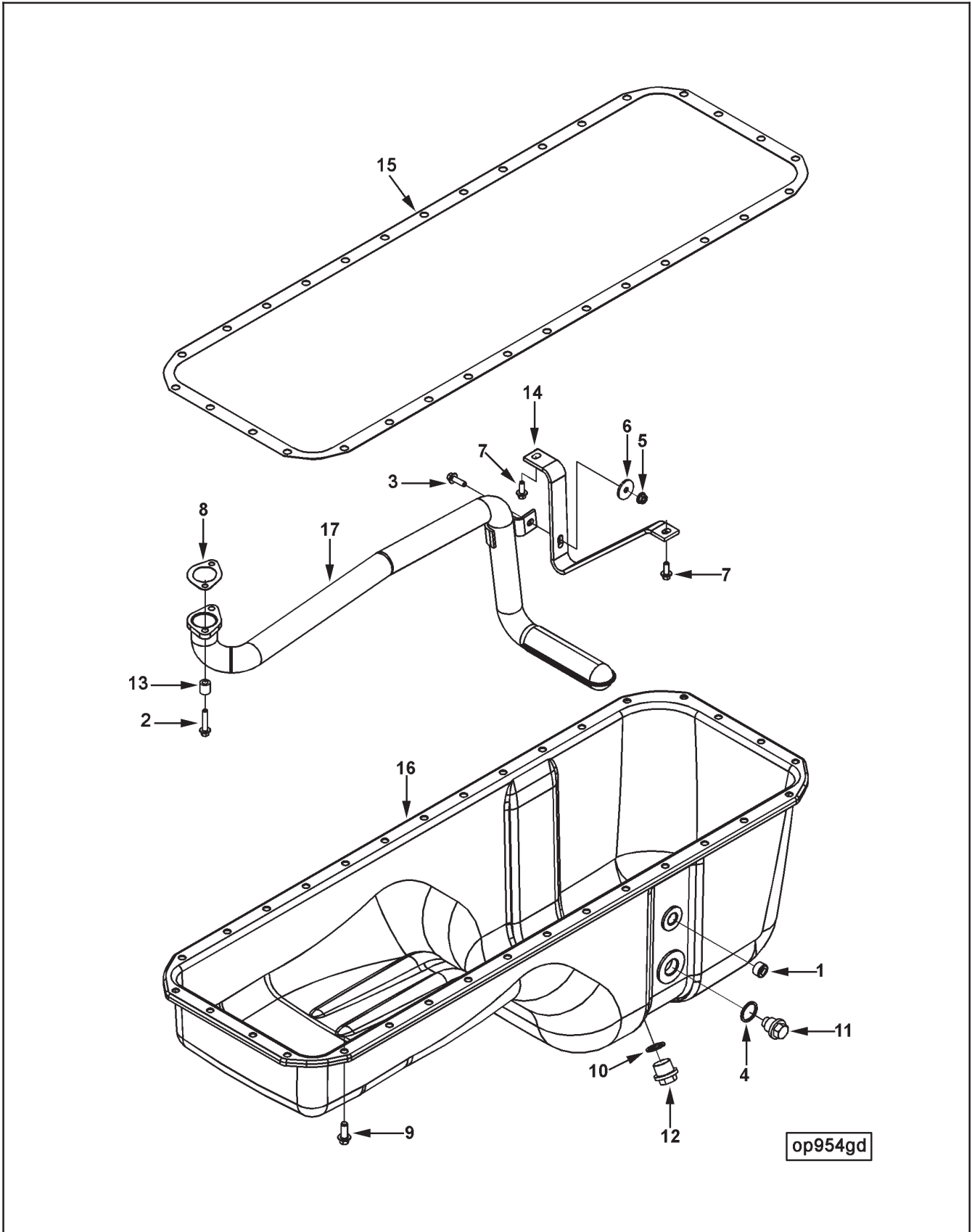


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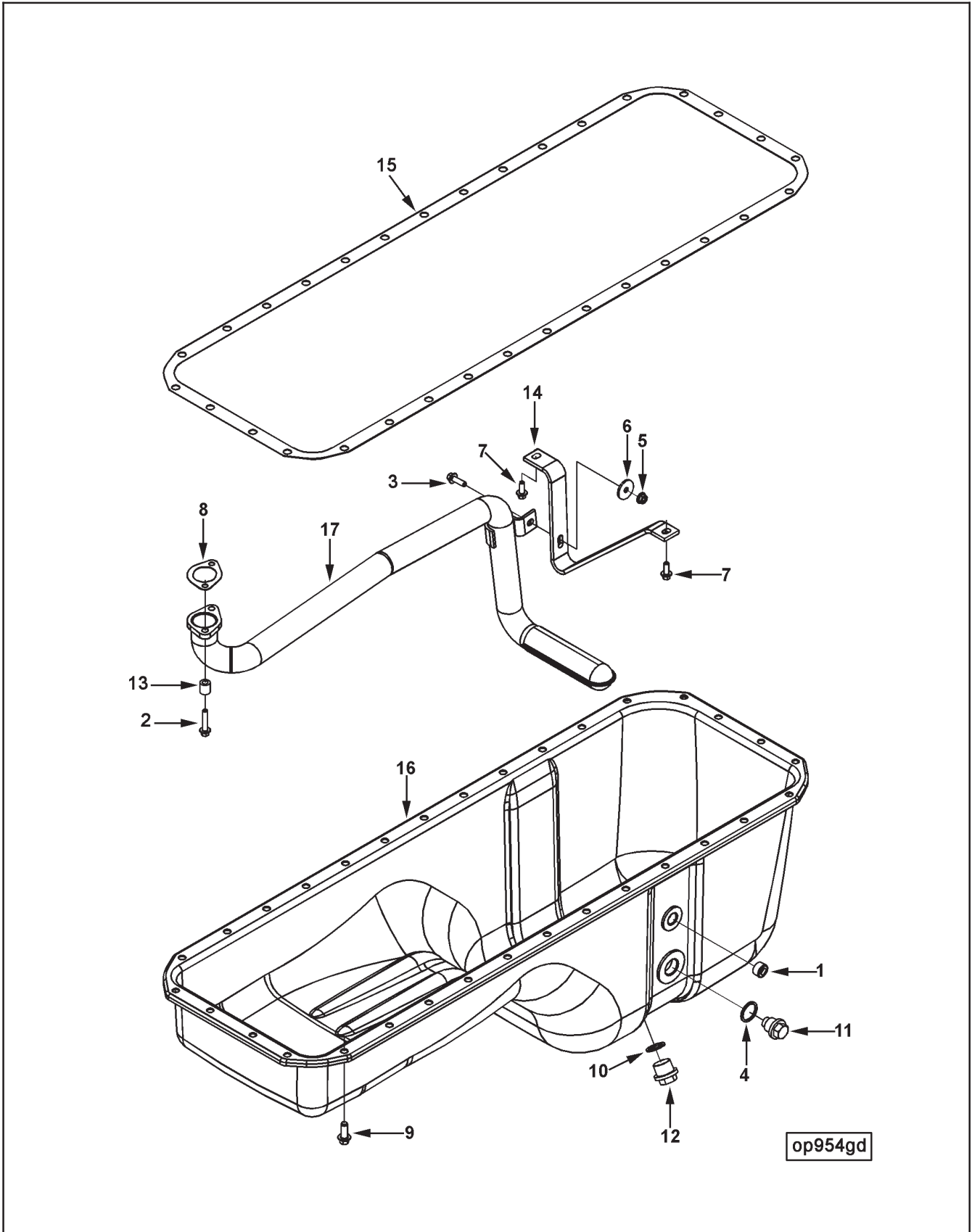
Ref No.	Part Number	Part Name	Req	Remarks
		LUBE OIL PUMP OPTION LP9724		MR - PUMP, LUBRICATING OIL Flow Rate @ Pump Speed (GPM @ RPM): TBD at TBD Gear Type: HCR Spur Gear Pump Drive: Non Crank Concentric DCEC May Use Part Number 4941464 in Place of 3991123
1	3991123	Pump, Lubricating Oil	1	
2	3900677	Screw, Hexagon Head Cap	4	M8 x 1.25 x 30



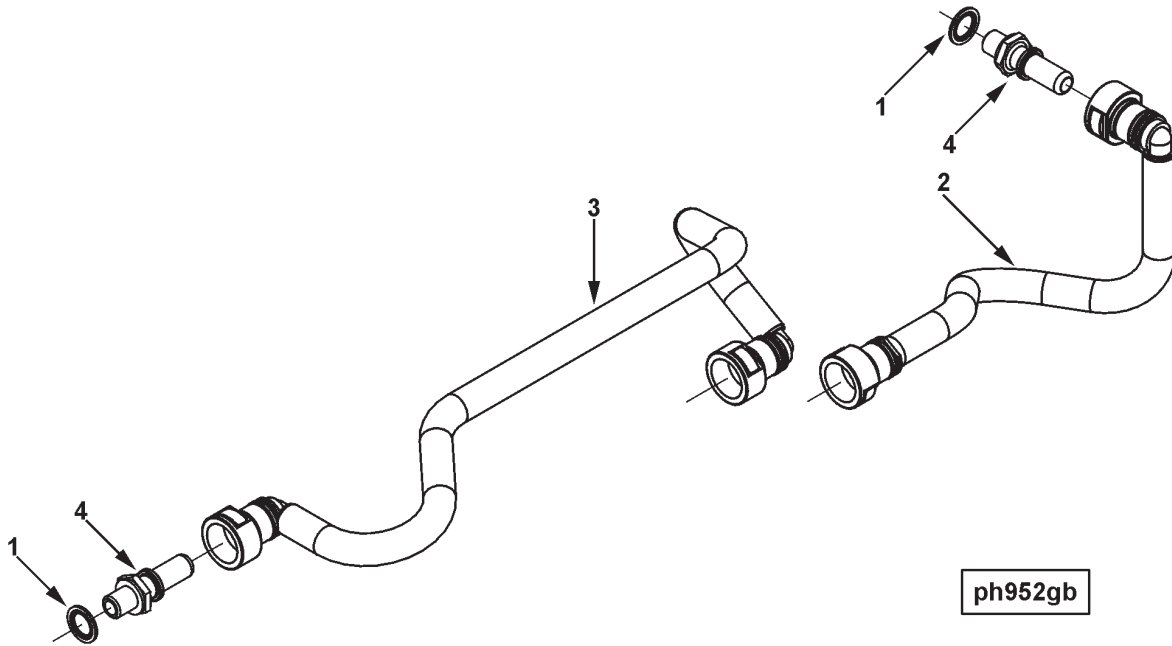
Ref No.	Part Number	Part Name	Req	Remarks
		CYLINDER BLOCK COVER OPTION OB9351		MR - COVER, CYLINDER BLOCK Oil Fill Provision: Valve Cover Only Engine Family: Pegasus C & L Series Contains Expansion Plug to Blank Off Exhaust Side Oil Fill Provision and Oil Drain Connection of Fuel Pump Side for Breather Tube
1	3910495	Screw, Hex Flange Head Cap	2	M12 x 1.75 x 30
2	3903463	Cover, Access Hole	1	
3	3903475	Seal, Rectangular Ring	1	
4	3906696	Seal, Rectangular Ring	1	
5	3920706	Plug, Expansion	1	Not Used On Engines W/Turbos
6	3964393	Connection, Oil Drain	1	



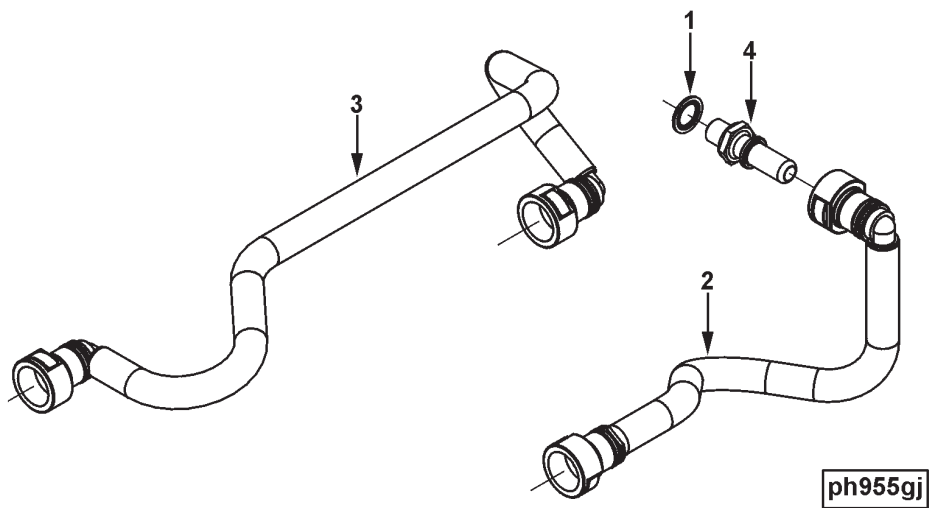
Ref No.	Part Number	Part Name	Req	Remarks
		OIL PAN OPTION OP9338		MR - PAN, OIL Engine Family: L Series Cylinders: 6 Sump Style: Standard Sump Location: Rear Oil Pan Material: Stamped Steel Oil Pan Type: Non-Isolated Pan High Capacity (qt): 24 (22.706 L) Pan Low Capacity (qt): 20 (18.921 L) Pan Front Up Angularity (deg): 45 Pan Front Down Anglarity (deg): 45 Pan Side to Side Angularity (deg): 45 Drain Size: M18 Drain Location: Fuel Side Position from Front Face of Block (mm): 632.3 Position from Crank Centerline (mm): 375.6 Heater Boss Size: M22 x 1.5-6 H Heater Boss Location: Fuel Side Position from Front Face of Block (mm): 632.3 Position from Crank Centerline (mm): 278.6 Oil Level Sensor Tapping Size: 3/8 inch NPTF Oil Level Sensor Provision: Fuel Side Position from Front Face of Block (mm): 632.3 Position from Crank Centerline (mm): 205 Required Block Flange (mm): 282 x 883.5 Oil Pan Mounting Holes: 9mm Thru Holes Oil Pan/Block Mounting Holes: 24 Spacing: Equal, 78.5mm Oil Pan/Gear Housing Mounting Holes: 4 Spacing: Unequal Oil Pan/Flywheel Housing Mounting Holes: 4 Spacing: Unequal Doweled for Flywheel Housing: No Required Dipstick Calibration: BFOB-Full/Low (428) 0-5 Degrees: 76/96 Unique Characteristics: Pan Includes Full Perimeter Clamping Plates
1	3013786	Plug, Pipe	1	3/8 NPT
2	3900628	Screw, Hex Flange Head Cap	2	M6 x 1.00 x 30
3	3901865	Screw, Hex Flange Head Cap	1	M6 x 1.00 x 20
4	3902425	Washer, Sealing	1	22mm
5	3906216	Nut, Hexagon Flange	1	M6 x 1.00
6	3910960	Washer, Plain	1	M6
7	3913638	Screw, Hex Flange Head Cap	2	M6 x 1.00 x 16
8	3939352	Gasket, Oil Suc Connection	1	



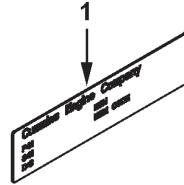
Ref No.	Part Number	Part Name	Req	Remarks
9	3907860	Screw, Hex Flange Head Cap	32	M8 x 1.25 x 25
10	3920773	Washer, Sealing	1	18mm
11	3924148	Plug, Threaded	1	M22 x 1.50 x 14
12	3924147	Plug, Threaded	1	M18 x 1.50 x 12
13	3926865	Spacer, Mounting	2	
14	3927611	Brace, Tube	1	
15	3973509	Gasket, Oil Pan	1	
16	3974294	Pan, Oil	1	
17	3964028	Connection, Oil Suction	1	



Ref No.	Part Number	Part Name	Req	Remarks
		ENGINE CONTROL MODULE PLUM OPTION PH9055		MR - ENGINE CONTROL MODULE PLUMB- ING Fuel Inlet to ECM: From Fuel Manifold (FT Option) ERS: 6 Crank Centerline to Inlet Centerline (mm): 319 Engine Centerline to Inlet Centerline (mm): 185.27 Front Face of Block to Inlet Centerline (mm): -804.5 Fuel Outlet from ECM: To Gear Pump on Fuel Pump Crank Centerline to Inlet Centerline (mm): 367.6 Engine Centerline to Inlet Centerline (mm): 270.5 Front Face of Block to Inlet Centerline (mm): 141.9 Engine Mounted Lift Pump: Yes
1	3963990	Washer, Sealing	1	
2	3966128	Tube, Fuel Supply	1	
3	3966129	Tube, Fuel Supply	1	
4	3969822	Connection, Adapter	1	

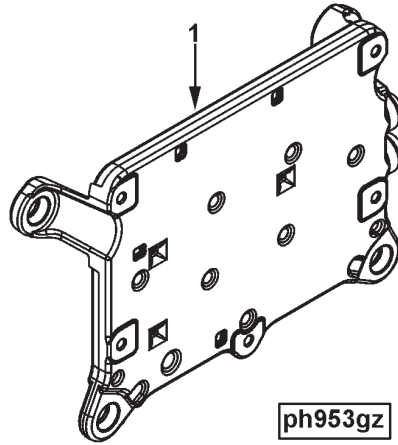


Ref No.	Part Number	Part Name	Req	Remarks
		ENG CNT MODULE PLUMBING OPTION PH9055		MR - PLUMBING, ENG CNT MODULE Gear Pump Inlet Port Location: Centerline of Crank to Centerline of Inlet (mm): TBD Centerline of Engine to Centerline of Inlet (mm): TBD Front Face of Block to Inlet (mm): TBD ECM Outlet Port Location: Centerline of Crank to Centerline of Outlet (mm): TBD Centerline of Engine to Centerline of Outlet (mm): TBD Front Face of Block to Outlet (mm): TBD ECM Inlet Port Location: Centerline of Crank to Centerline of Inlet (mm): TBD Centerline of Engine to Centerline of Inlet (mm): TBD Front Face of Block to Inlet (mm): TBD Fuel Connection Outlet Port Location: Centerline of Crank to Centerline of Outlet (mm): TBD Centerline of Engine to Centerline of Outlet (mm): TBD Front Face of Block of Engine to Centerline of Outlet (mm): TBD Front Face of Block to Outlet (mm): TBD Engine Family: C & L Design Phase: Pegasus Alpha
1	3963990	Washer, Sealing	1	
2	3966128	Tube, Fuel Supply	1	
3	3969822	Connection, Adapter	1	
4	3979403	Tube, Fuel Supply	1	



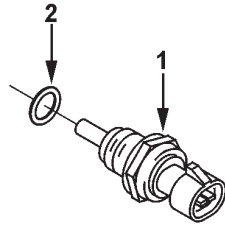
ph954ga

Ref No.	Part Number	Part Name	Req	Remarks
1	3609867	Dataplate DATAPLATE OPTION PH9111	1	MR - DATAPLATE Engine Control System: PE1, PE2, P11, P21 ECM Version: CM850 PV Module Location (mm): N/A Ambient Air Pressure Sensor: Yes Intake Manifold Pressure Sensor: Absolute Oil Pressure Sensor: Sensor Speed Sensor Location: Cam Engine Design Phase: Pegasus Engine Family: C & L Series Engine Position Sensor: Crank



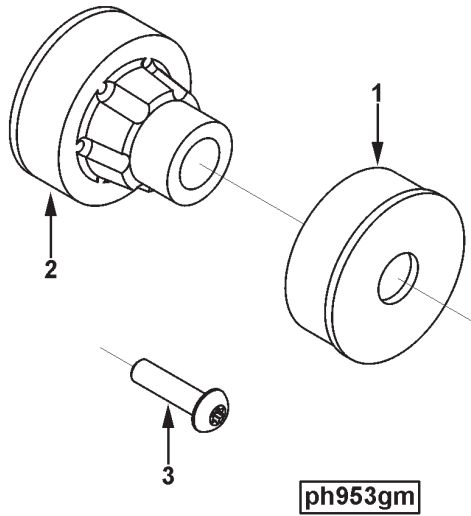
Ref No.	Part Number	Part Name	Req	Remarks
1	3970204	<p style="text-align: center;">ELECTRONIC CONTROL COOLER OPTION PH9111</p> <p>Cooler, Electronic Control</p>	1	<p>MR - COOLER, ELECTRONIC CONTROL Engine Design Phase: Pegasus Engine Family: C & L Series</p>

Ref No.	Part Number	Part Name	Req	Remarks
		ENGINE CONTROL MODULE OPTION PH9111		MR - MODULE, ENGINE CONTROL Engine Control System: PE1, PE2, P11, P21 ECM Version: CM850 PV Module Location (mm): N/A Ambient Air Pressure Sensor: Yes Intake Manifold Pressure Sensor: Absolute Oil Pressure Sensor: Sensor Speed Sensor Location: Cam Engine Design Phase: Pegasus Engine Family: C & L Series Engine Position Sensor: Crank
1	3609867	Dataplate	1	
2	3682941	Screw, Hexagon Head Cap	1	M8 x 1.25 x 15
3	3900589	Nut, Hexagon Flange	1	M8 x 1.25
4	3900630	Screw, Hex Flange Head Cap	1	M8 x 1.25 x 20
5	3900678	Screw, Hex Flange Head Cap	2	M8 x 1.25 x 40
6	3901445	Screw, Hex Flange Head Cap	4	M8 x 1.25 x 45
7	3913638	Screw, Hex Flange Head Cap	1	M6 x 1.00 x 16
8	3920854	Screw, Captive Washer Cap	1	M5 x 0.80 x 20
9	3944816	Screw, Hex Flange Head Cap	3	M8 x 1.25-6G
10	3954204	Wire, Ground	1	
11	3955219	Isolator, Vibration	4	
12	3955220	Isolator, Vibration	4	
13	3957849	Screw, Socket Head Cap	1	
14	3970204	Cooler, Electronic Control	1	
15	4076493	Sensor, Pressure	1	Ambient Air Pressure
	4088750	Sensor, Temperature	1	
16	(4088751)	Sensor, Temperature	1	
17	4921574	Seal, O Ring	1	
	4903286	Sensor, Prs Temperature	1	
18	4903285	Sensor, Prs Temperature	1	
19	4903482	Seal, O Ring	1	
	4921684	Sensor, Position	1	
20	(4921685)	Sensor, Position	1	
21	4928599	Seal, O Ring	1	
	4921686	Sensor, Position	1	
21	4928599	Seal, O Ring	1	
22	(4921687)	Sensor, Position	1	
	4921744	Sensor, Pressure	1	
17	(4921574)	Seal, O Ring	1	
23	(4921745)	Sensor, Pressure	1	
24	4921797	Module, Electronic Control	1	

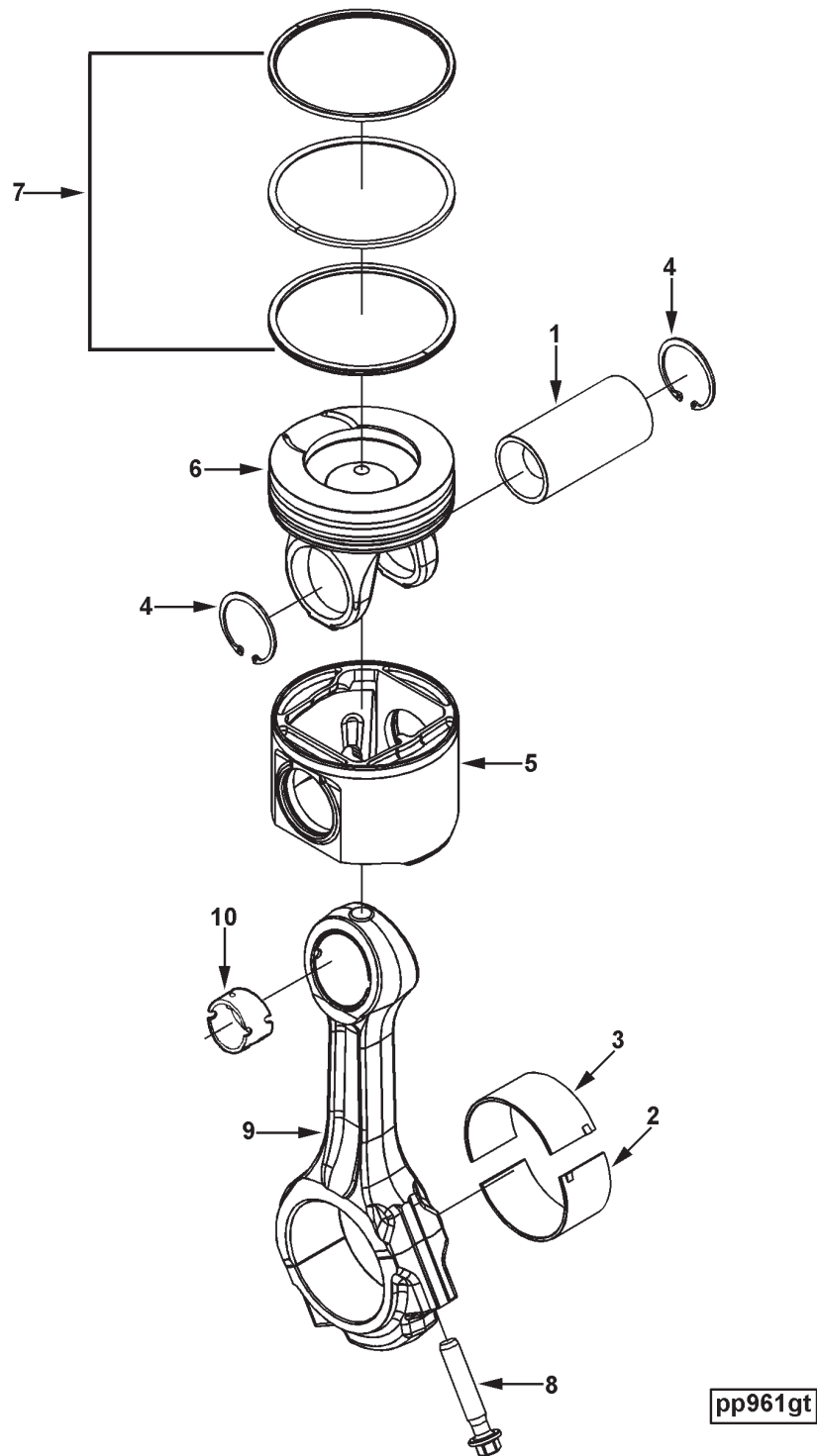


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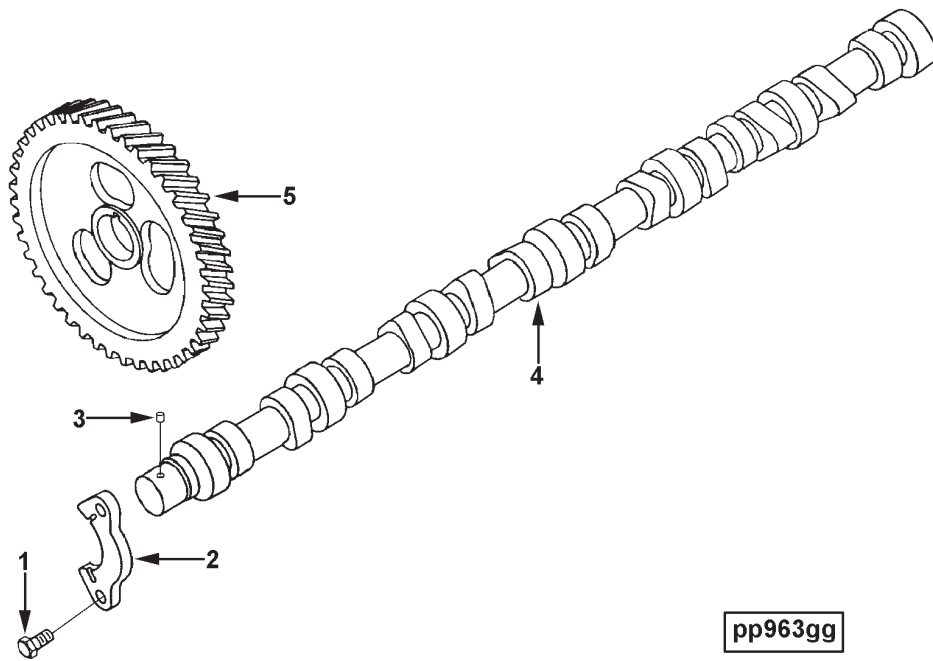
Ref No.	Part Number	Part Name	Req	Remarks
		TEMPERATURE SENSOR OPTION PH9111		MR - SENSOR, TEMPERATURE Engine Control System: PE1, PE2,P1 I,P2 I ECM Vesion: CM850 PV Module Location (mm): N/A Ambient Air Pressure Sensor: Yes Intake Manifold Pressure Sensor: Absolute Oil Pressure Sensor: Sensor Speed Sensor Location: Cam Engine Design Phase: Pegasus Engine Family: C & L Series Engine Position Sensor: Crank
1	4088750 (4088751)	Sensor, Temperature	1	
2	(4921574)	Sensor, Temperature Seal, O Ring	1	



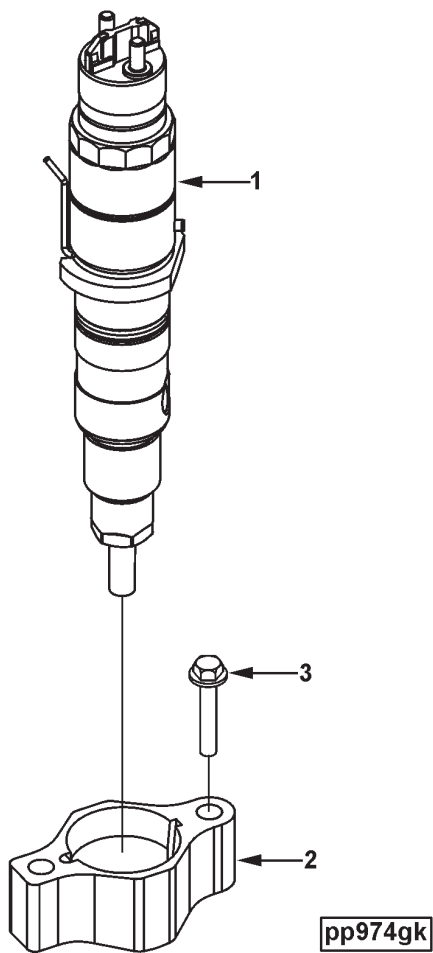
Ref No.	Part Number	Part Name	Req	Remarks
		VIBRATION ISOLATOR OPTION PH9111		MR - ISOLATOR, VIBRATION Engine Design: Pegasus Engine Family: C & L Series
1	3955219	Isolator, Vibration	4	
2	3955220	Isolator, Vibration	4	
3	3957849	Screw, Socket Head Cap	1	



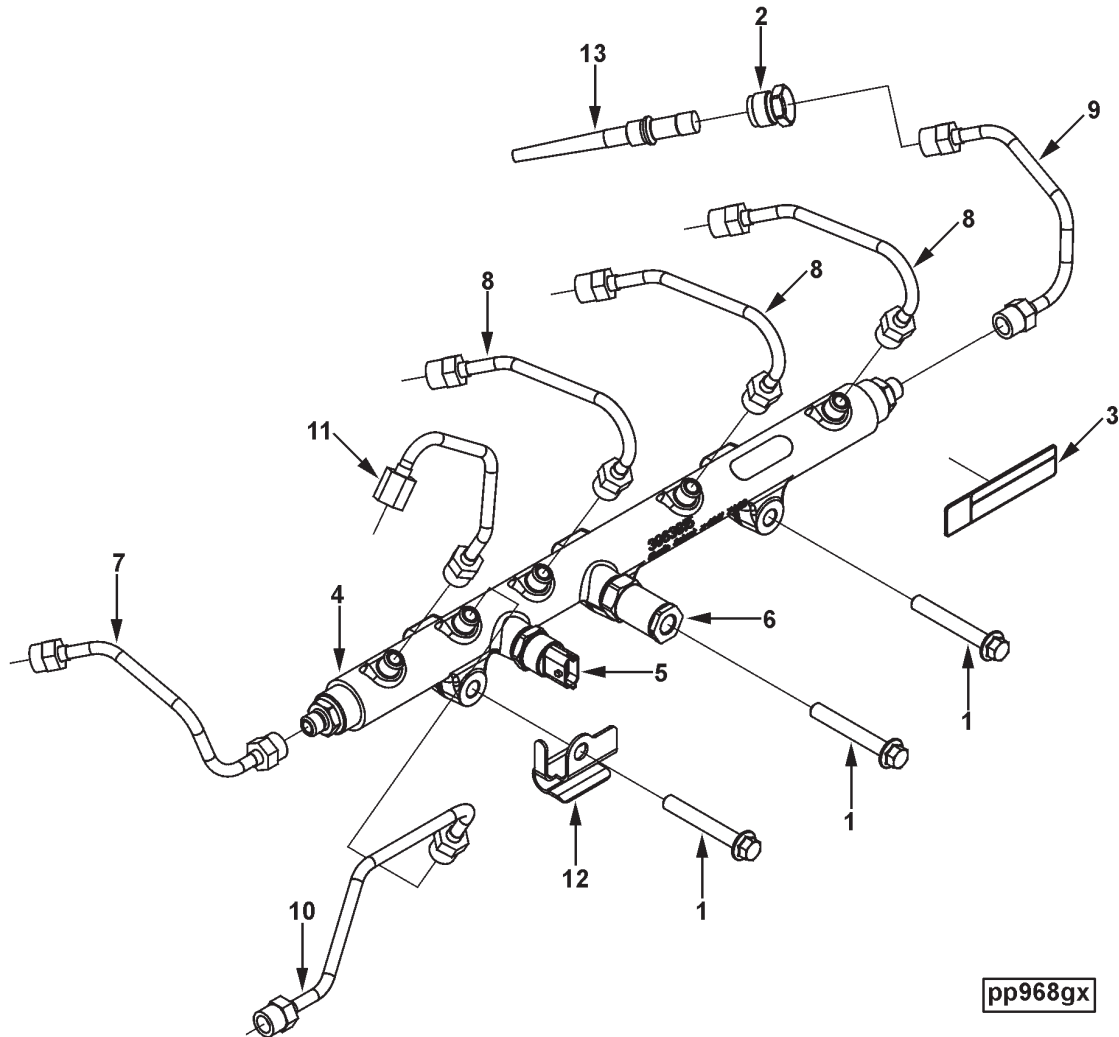
Ref No.	Part Number	Part Name	Req	Remarks
		PERFORMANCE PARTS OPTION PP8647		MR - PERFORMANCE, PARTS Technical Model Name: 6LTAA8.9-CE Engine Family: L Series CPL: 8647 Certified By: EPA, CARB, EU Cylinders: 6 Engine Aspiration: Charge Air Cooled Engine Control System: P2I Engine Application: Non Road Engine Design Phase: Pegasus Service Model Name: QSL With CM850 ECM Version: CM850 PV Centinel Provision: N/A Applicable FR Options: FR91524
1	3950549	Pin, Piston	6	
2	3950661	Bearing, Connecting Rod	6	
3	3966244	Bearing, Connecting Rod	6	Upper
	4089963	Piston	6	
4	3920692	Ring, Retaining	2	Sold In Higher Level Assy/Kit
5	(3966721)	Skirt, Piston	1	Sold In Higher Level Assy/Kit
6	3974404	Top, Piston	1	Sold In Higher Level Assy/Kit
7	4089644	Set, Piston Ring	1	
	4941323	Rod, Engine Connecting	6	
8	3944679	Screw, Connecting Rod Cap	2	
9	(3967347)	Rod, Engine Connecting	1	
10	3970951	Bushing	1	



Ref No.	Part Number	Part Name	Req	Remarks
		CAMSHAFT OPTION PP8647		MR - CAMSHAFT Technical Model Name: 6LTAA8.9-CE Engine Family: L Series CPL: 8647 Certified By: EPA, CARB, EU Cylinders: 6 Engine Aspiration: Charge Air Cooled Engine Control System: P2I Engine Application: Non Road Engine Design Phase: Pegasus Service Model Name: QSL With CM850 ECM Version: CM850 PV Centinel Provision: N/A Applicable FR Options: FR91524
1	3900227	Screw, Hexagon Head Cap	2	M8 x 1.25 x 22
2	3944001	Support, Camshaft Thrust	1	
	3966430	Camshaft	1	
3	(3972777)	Dowel, Pin	1	
4	(3966431)	Camshaft	1	
5	3950135	Gear, Camshaft	1	



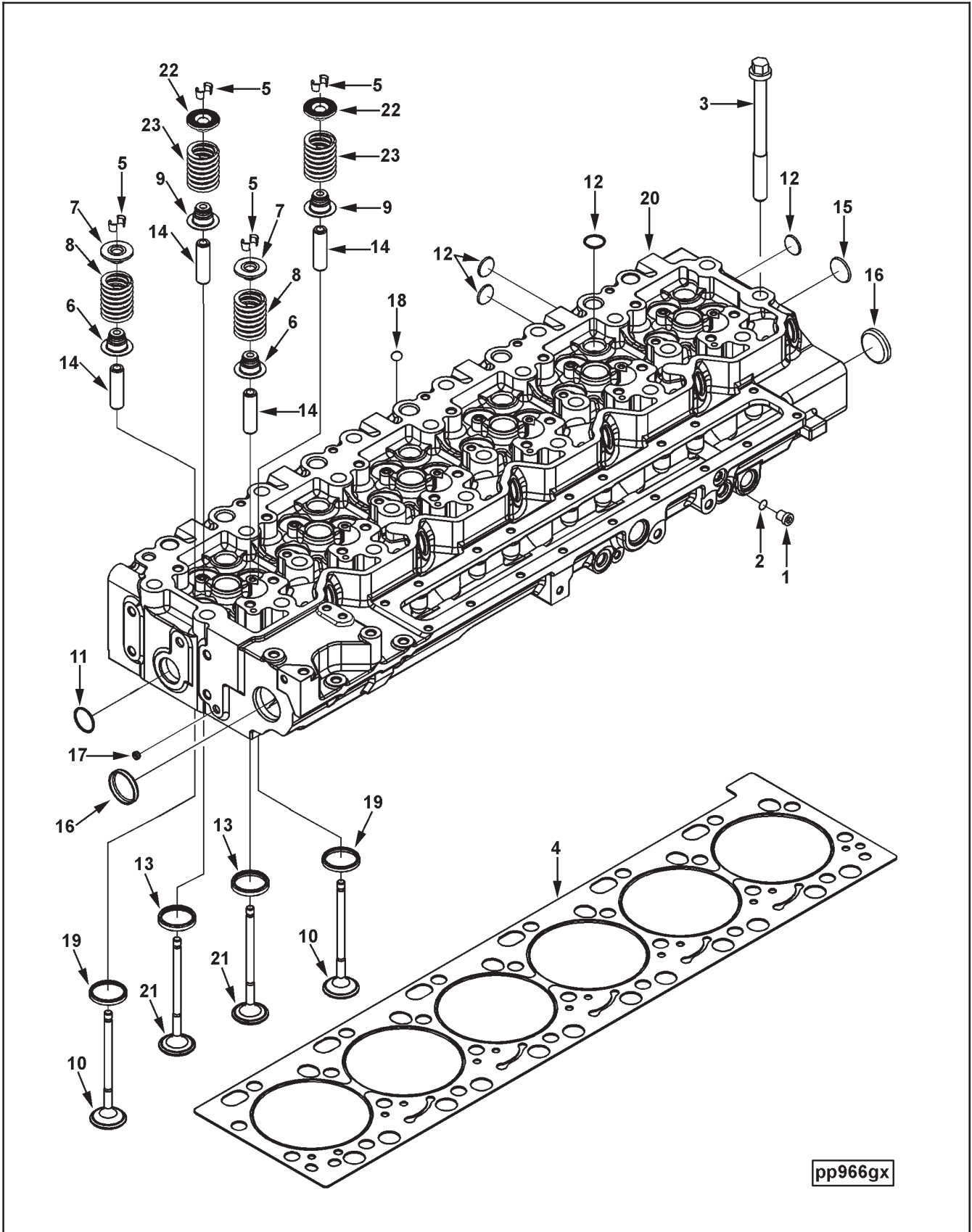
Ref No.	Part Number	Part Name	Req	Remarks
		INJECTOR OPTION PP8647		MR - INJECTOR Technical Model Name: 6LTAA8.9-CE Engine Family: L Series CPL: 8647 Certified By: EPA, CARB, EU Cylinders: 6 Engine Aspiration: Charge Air Cooled Engine Control System: P2I Engine Application: Non Road Engine Design Phase: Pegasus Service Model Name: QSL With CM850 ECM Version: CM850 PV Centinel Provision: N/A Applicable FR Options: FR91524
1	3973060	Injector	6	Recon Equivalent 3973060 NX
2	3959045	Clamp, Injector	6	
3	4017567	Screw, Hex Flange Head Cap	12	



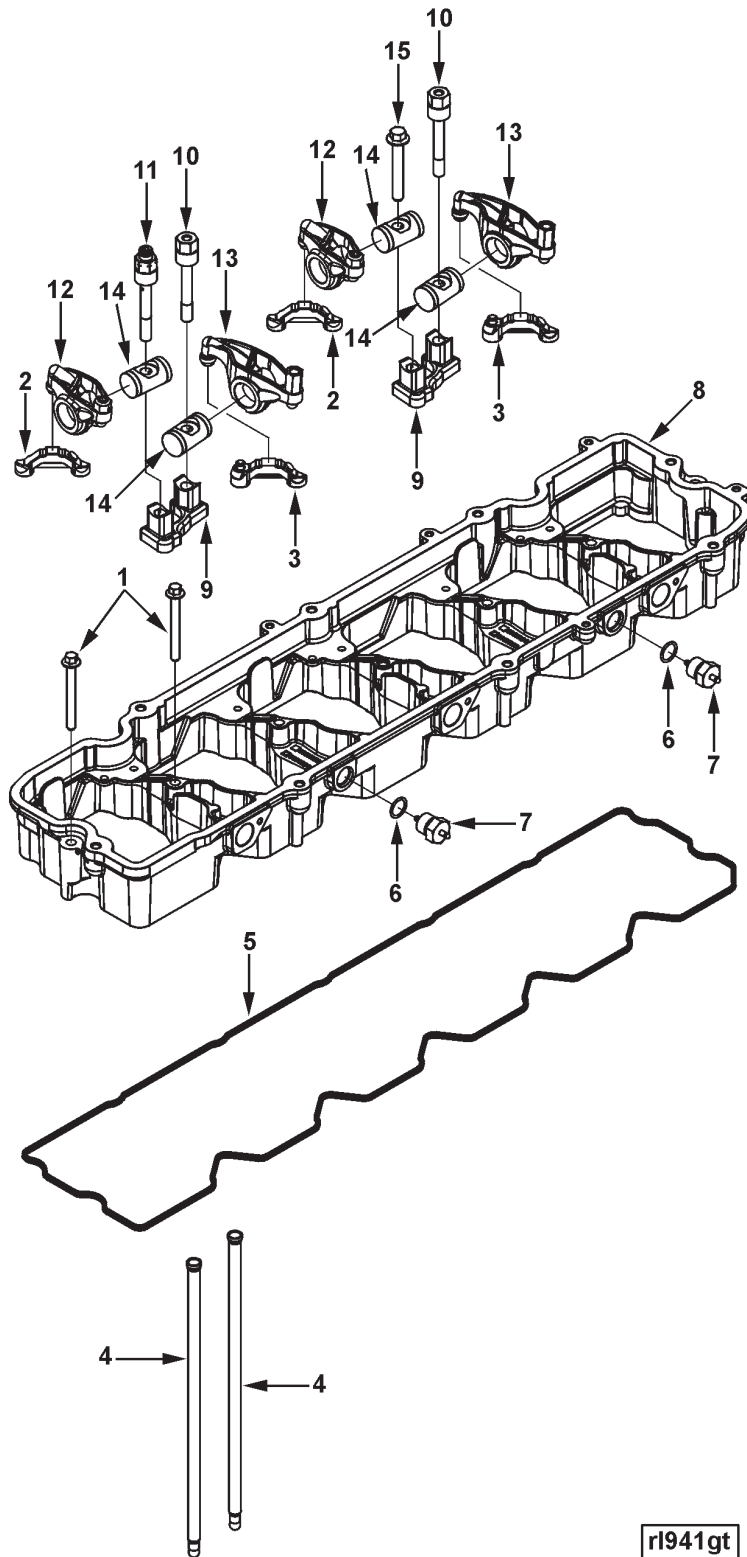
Ref No.	Part Number	Part Name	Req	Remarks
		INJECTOR PLUMBING OPTION PP98728		MR - PLUMBING, INJECTOR Engine Family: C & L Series Engine Design Phase: Pegasus Contains Bosch High Pressure Commonrail, Fuel Supply Tube from Pump to Rail and Tubes from Rail to Injectors Also Contains Tube Brace for Single Fuel Supply Tube for Remote Secondary Fuel Filter Options
1	3904446	Screw, Hex Flange Head Cap	3	M10 x 1.50 x 70
2	3946625	Retainer, Inj Ful Sup Cnr	6	
3	3957413	Decal	2	
4	3963815	Manifold, Fuel	1	
5	3949988	Sensor, Pressure	1	
6	3963808	Valve, Pressure Relief	1	
7	3964141	Tube, Injector Fuel Supply	1	
8	3964142	Tube, Injector Fuel Supply	3	
9	3964143	Tube, Injector Fuel Supply	1	
10	(3964144)	Tube, Injector Fuel Supply	1	Sold In Higher Level Assy/Kit
11	3975042	Tube, Injector Fuel Supply	1	
12	3977550	Brace, Tube	1	
13	4903290	Connector, Injector Fuel		

Ref No.	Part Number	Part Name	Req	Remarks
		TURBOCHARGER OPTION PP98834		Mr - turbocharger Engine Family: C And "L" Series engine design phase: Pegasus industrial Exhaust Outlet Location: HMRO Turbocharger ID17 P/N: 4040255 turbotype: Wastegate turbomodel: Hy40 w (18 sqcm) wastegate pressure setting (BAR) : 2.29 wastegate brkt orientation : 10 degree down on engine compressor outlet orientation from horizontal (deg) : 90 straight up compressor angle (shipping degrees): 255 turbine angle (deg): 15 compressor wheel material: Cast aluminum.
	3818823	Stud	4	
	3818824	Nut, Hexagon Flange	4	M10 x 1.50
	3901356	Gasket, Turbocharger	1	Holset P/N 3709861
	(4040256)	Turbocharger	1	
	(4040255)	Turbocharger	1	
	3503100	Bearing, Turbocharger	2	
	3504967	Washer, Plain	3	
	3519163	Screw, Drive	2	
	3519302	Shield, Turbocharger Heat	1	
	3522597	Pin, Roll	1	
	3527566	Ring, Retaining	1	
	(3527619)	Dataplate	1	
	3528104	Baffle, Oil	1	
	3528121	Coupling, Elbow Hose	1	
	(3528177)	End, Adjusting Link	1	
	3528221	Ring, Retaining	1	
	3528933	Seal, O Ring	1	
	3530556	Screw, Hexagon Head Set	5	M8 x 1.25 x 20
	3530923	Plate, Oil Seal	1	
	3530924	Slinger, Oil	1	
	3531238	Ring, Retaining	1	
	3532195	Spacer, Mounting	3	
	3532196	Spacer, Mounting	1	
	3532217	Collar, Thrust	1	
	(3532427)	Baffle, Turbocharger Noise	1	
	3532671	Bracket, Actuator	1	
	3533163	Ring, Retaining	1	
	3534291	Screw, Hexagon Head Set	2	
	3534309	Plate, Clamping	2	
	3535215	Clamp, Hose	2	
	(3537111)	Housing, Tur Bearing	1	
	3537960	Gasket, Adapter	1	
	3537979	Connection, Adapter	1	
	3538468	Hose, Plain	1	
	3539209	Screw, Hexagon Head Set	1	
	3539743	Housing, Turbine	1	
	(3527089)	Shim	1	
	3528179	Lever, Control Linkage	1	5 3527092 Lever, Control Linkage 1 5 (3528178) Pin, Pivot 1
	(3529675)	Bushing	1	
	(3529676)	Valve, Wastegate	1	5 (3527094) Valve, Wastegate 1 5 3527131 Washer, Plain 1 5 (3529677) Lever, Wastegate Valve 1

Ref No.	Part Number	Part Name	Req	Remarks
			6 (3527095)	Lever, Wastegate Valve 1 6 (3529678) Shaft, Pivot 1
	(3537974)	Housing, Turbine	1	
	3592050	Nut, Hexagon Flange	2	
	3595651	Bearing, Tur Thrust	1	
	(3596226)	Shaft & Wheel	1	
	(4036082)	Shaft, Turbocharger	1	
	3596402	Nut, Lock	1	
	(3598484)	Actuator, Turbocharger	1	
	(3592741)	Seal, Dust	1	
	(3597286)	Spring, Compression	1	
	(3597436)	Piston, Tur Actuator	1	5 (3590800) Piston, Tur Actuator 1 5 (3591645) Diaphragm 1 5 (3592742) Guide, Actuator Shaft 1 5 (3594839) Washer, Plain 2 5 (3597288) Shaft, Actuator 1
	(3598282)	Housing, Actuator	1	
	(3598284)	Cover, Actuator	1	5 (3527437) Coupling, Plain Hose 1 5 (3590498) Cover, Actuator 1
	(3598285)	Plate, Clamping	1	
	3598995	Housing, Compressor	1	
	3756754	Seal, Split Ring	1	
	3758848	Seal, Split Ring	1	
	3759917	Screw, Hexagon Head Set	6	M8 x 1.25 x 12
	3762259	Ring, Retaining	4	
	(4035879)	Impeller, Tur Compressor	1	

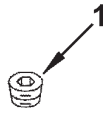


Ref No.	Part Number	Part Name	Req	Remarks
		CYLINDER HEAD OPTION PP98880		MR - HEAD, CYLINDER Engine Family: C & L Series Engine Design Phase: Pegasus Cylinders: 6 Swirl: 0.8 Manifold Pressure to Lift Exhaust Valve (PSI): 30 Air Compressor Inlet Coupling: Without Notched Head: No Cylinder Head Material: Cast Iron Cylinder Head Valve Material: Standard Unique Characteristics: Contains Rotators and Shorter Spring Height
1	3678923 (3678924)	Plug, Threaded	1	M10 x 1.00 x 9.5
2	3678925	Plug, Threaded	1	M10 x 1.00 x 9.5
3	3960043	Seal, O Ring	1	M10 x 1.00
4	3967059 (4928931)	Screw, Hex Flange Head Cap Gasket, Cylinder Head	26 1	
5	3900250	Head, Cylinder	1	
6	3943888	Collet, Valve	48	
7	3944452	Seal, Valve Stem	12	
8	3944711	Retainer, Valve Spring	12	
9	3948578	Spring, Valve	12	
10	3948578 (3969637)	Seal, Valve Stem Valve, Exhaust	12	Sold In Higher Level Assy/Kit
11	3032693	Head, Cylinder	1	
12	3920706	Plug, Expansion	2	
13	3920706 (3940152)	Plug, Expansion	18	Not Used On Engines W/Turbos
14	3942645	Insert, Valve	24	
15	3945093	Guide, Valve Stem	1	
16	3945094	Plug, Expansion	2	
17	3945097	Plug, Expansion	1	
18	3945098	Plug, Expansion	6	
19	3968074	Insert, Valve	1	
20	3968074 (3969725)	Head, Cylinder	1	
21	3970727	Valve, Intake	12	Sold In Higher Level Assy/Kit
22	3979599	Rotator, Valve	12	
23	4931931	Spring, Valve	12	



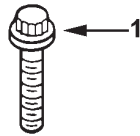
r1941gt

Ref No.	Part Number	Part Name	Req	Remarks
		ROCKER LEVER OPTION RL9759		MR - ROCKER LEVER Engine Family: L Series Engine Design Phase: Pegasus, Beta Engine Brake Compatible: Yes, 12V & 24V High Pressure Common Rail (HPCR) Capable: Yes Fuel Pump Manufacturing / Model: Cummins CAPS II
1	3901447	Screw, Hex Flange Head Cap	7	M8 x 1.25 x 75
2	3943445	Crosshead, Valve	6	
3	3945236	Crosshead, Valve	6	
4	3964715	Rod, Push	12	
5	3966708	Gasket, Rkr Lever Housing	1	
	(3969883)	Housing, Rocker Lever	1	
	3073972	Connector, Electrical		
6	3046201	Seal, O Ring	1	
7	(3073971)	Connector, Electrical	1	
8	3969834	Housing, Rocker Lever	1	
	(3972541)	Assy, Rocker Lever	1	
	(3966275)	Assy, Rocker Lever	2	
9	3941140	Support, Rocker Lever	1	
10	3945231	Screw, Hex Flange Head Cap	1	
11	3945232	Screw, Hex Flange Head Cap	1	
12	3964796	Lever, Rocker	1	
13	3966277	Lever, Rocker	1	
14	3966658	Shaft, Rocker Lever	1	
	(3966276)	Assy, Rocker Lever	4	
9	3941140	Support, Rocker Lever	1	
10	3945231	Screw, Hex Flange Head Cap	1	
12	3964796	Lever, Rocker	1	
13	3966277	Lever, Rocker	1	
14	3966658	Shaft, Rocker Lever	2	
15	3943933	Screw, Hex Flange Head Cap		



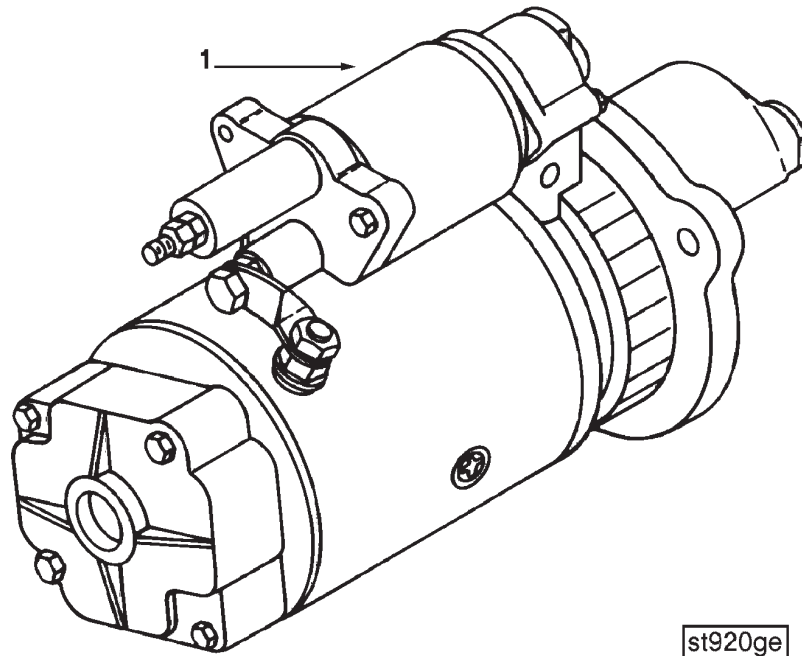
rp950ge

Ref No.	Part Number	Part Name	Req	Remarks
1	3008466	<p style="text-align: center;">RAD PLUMBING CONNECTION OPTION RP9043</p> <p>Plug, Pipe</p>	1	<p>MR - CONNECTION, RAD PLUMBING Vent Provision Type: Customer Supplied Engine Interface: 1/4 in. NPTF Centerline of Engine to OEM Interface (mm): -79 Centerline of Crank to OEM Interface (mm): 479 Front Face of Block to OEM Interface (mm): -18 Unique Characteristic: Plug Only</p> <p>1/4 NPT</p>



sm951gr

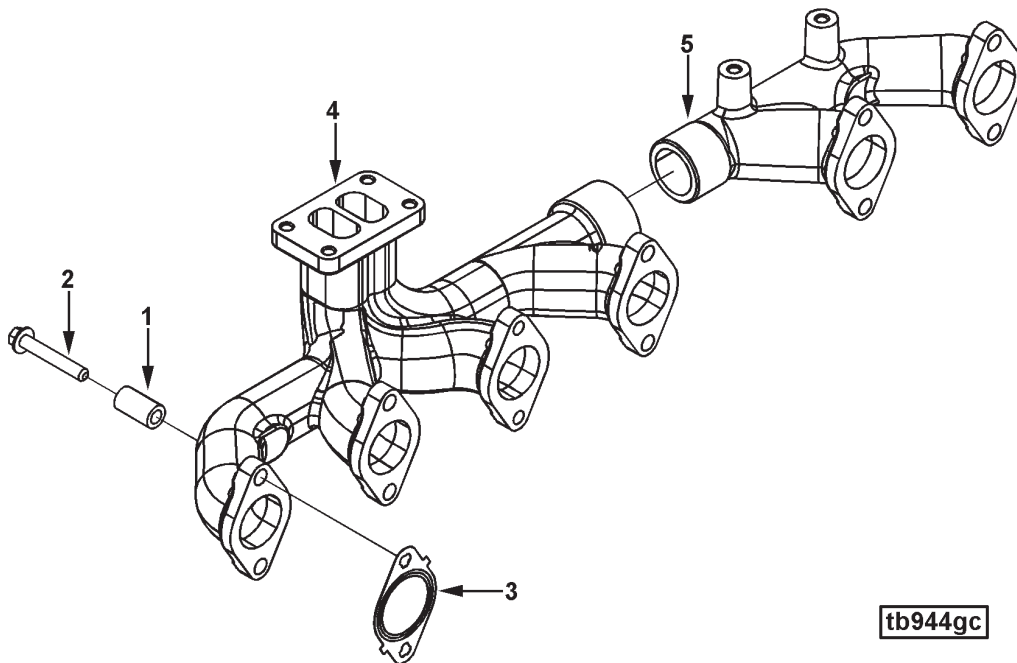
Ref No.	Part Number	Part Name	Req	Remarks
1	3968466	<p align="center">STARTER MOTOR MOUNTING OPTION SM9772</p> <p>Screw, Twelve Point Cap</p>	3	<p>MR - MOUNTING, STARTER MOTOR Thread Size: M12 Mounting Hardware Supplied: 3 Capscrews Item Supplied: Gasket Not Included Spacer Included: No M12 x 1.75 x 50</p>



st920ge

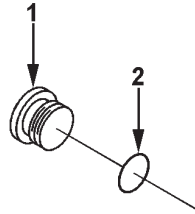
Ref No.	Part Number	Part Name	Req	Remarks
1	3957597	<p>STARTING MOTOR OPTION ST9256</p> <p>Motor, Starting</p>	1	<p>Pinion diametral pitch: 8/10 Pinion gear outside diameter (mm): 40.5 pinion gear Pinion gear offset (mm): 3.11 Pinion drive style: Offset Mounting flange type: 3 x 120 Frame size diameter (mm): 130 Pilot diameter (mm): 92.05 Starting Motor Length (mm): 244 Starter motor engine mounted angle (deg): 56 (+/- 15) Supply method: Mounted Cranking torque: TBD Removal length (mm): 41 Manufacturer: Denso Model: R7.5 Voltage: 24 Kilowatt Rating: 7.5 Nameplate brand: Cummins Unique Characteristics: Jump start protection grounding stud.</p>

Ref No.	Part Number	Part Name	Req	Remarks
		<p align="center">ARRANGEMENT, TURBOCHARGER OPTION TB91056</p>		<p>Mr - turbochager arrangement</p> <p>Engine Family: C,L Series engine design phase: Pegasus industrial Cylinders: 6 Exhaust Outlet Location: HMRO from engine centerline (mm): -197.3 from crank centerline (mm): 568.5 from front face of block (mm): -559</p> <p>Aspiration: Charge Air Cooled Exhaust Outlet Flange Tpe: Half Marmon Manifold Type: Dry Turbocharger Type: Wastegate Drain Location: Mid Block Provision on engine compressor outlet orientation from horizontal (deg) : 90 straight up Turbocharger ID17 P/N: 4037541, 4040255, 4040065, studs in manifold: No.</p>



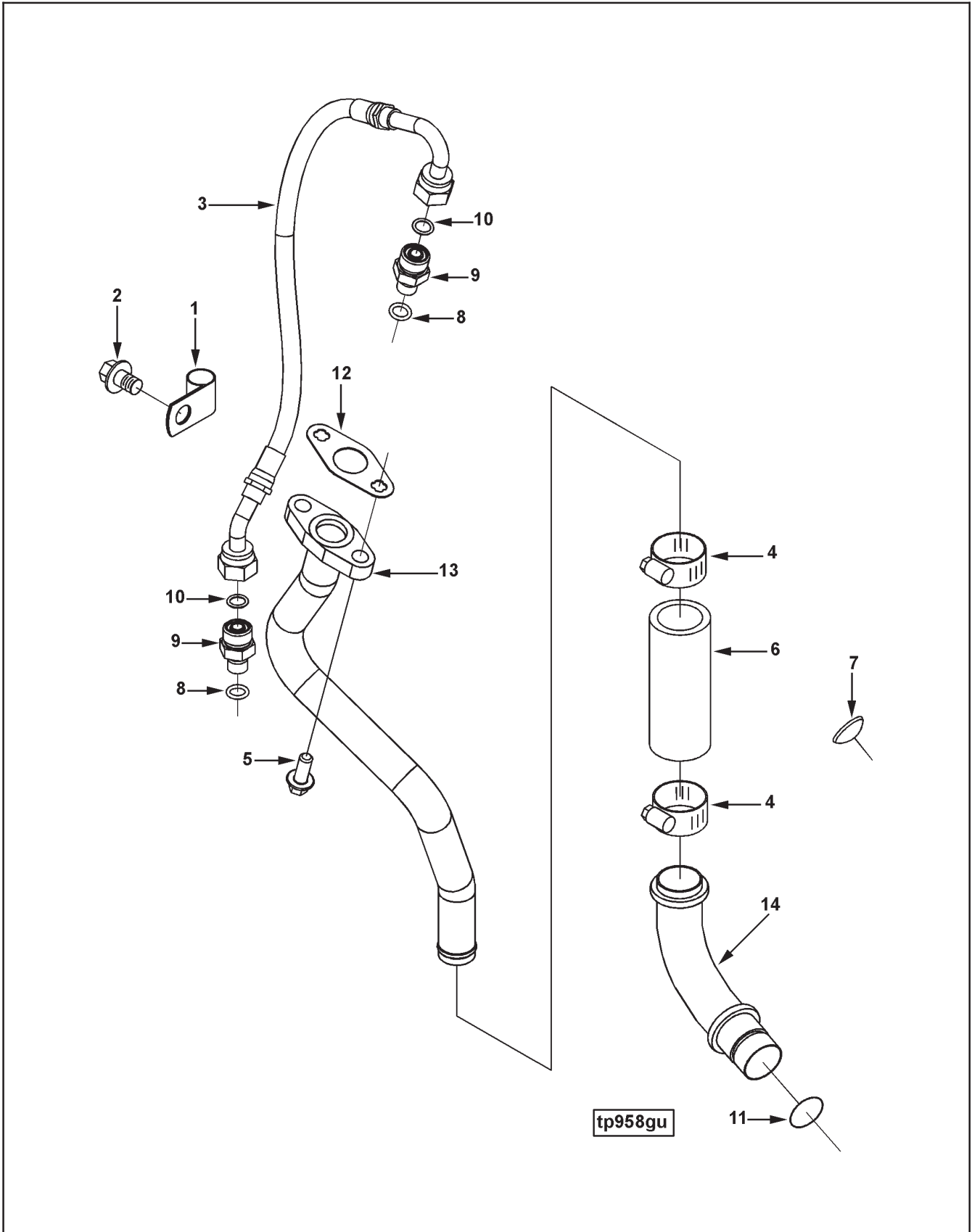
tb944gc

Ref No.	Part Number	Part Name	Req	Remarks
		EXHAUST MANIFOLD OPTION TB9849		MR - EXHAUST MANIFOLD Engine Family: C Series Engine Design Phase: Pegasus Cylinders: 6 Exhaust Outlet Location: HMRO/HMFO From Engine Centerline (mm): -197.3/-330.8 From Crank Centerline (mm): 568.5/568.5 From Front Face of Block (mm): -559/-362 Aspiration: Charge Air Cooled Exhaust Manifold Turbo Mounting Flange Location: Exhaust Manifold Mounting Flange to Turbo Mounting Flange Centerline (mm): -140.5 Centerline of Exhaust Manifold Ports to Turbo Mounting Flange Centerline (mm): 52 From Center of #6 Exhaust Port to Turbo Mounting Flange Centerline (mm): 342.5 Manifold Type: Dry Manifold Style: 2 Piece Turbo Mounting Flange Geometry: 44.5 x 86 Turbo Mounting Flange Style: Rectangular Turbo Flange Thread: 4 x M10 x 1.5 Turbo Flange Angle from Vertical (deg): 90 Up Customer Mounting Bosses Quantity: 3
1	3945252	Spacer, Mounting	12	
2	3944593	Screw, Hex Flange Head Cap	12	M10 x 1.50 x 65
3	3937479	Gasket, Exhaust Manifold	6	
4	3968362	Manifold, Exhaust	1	
5	3937478	Manifold, Exhaust	1	



tk940gg

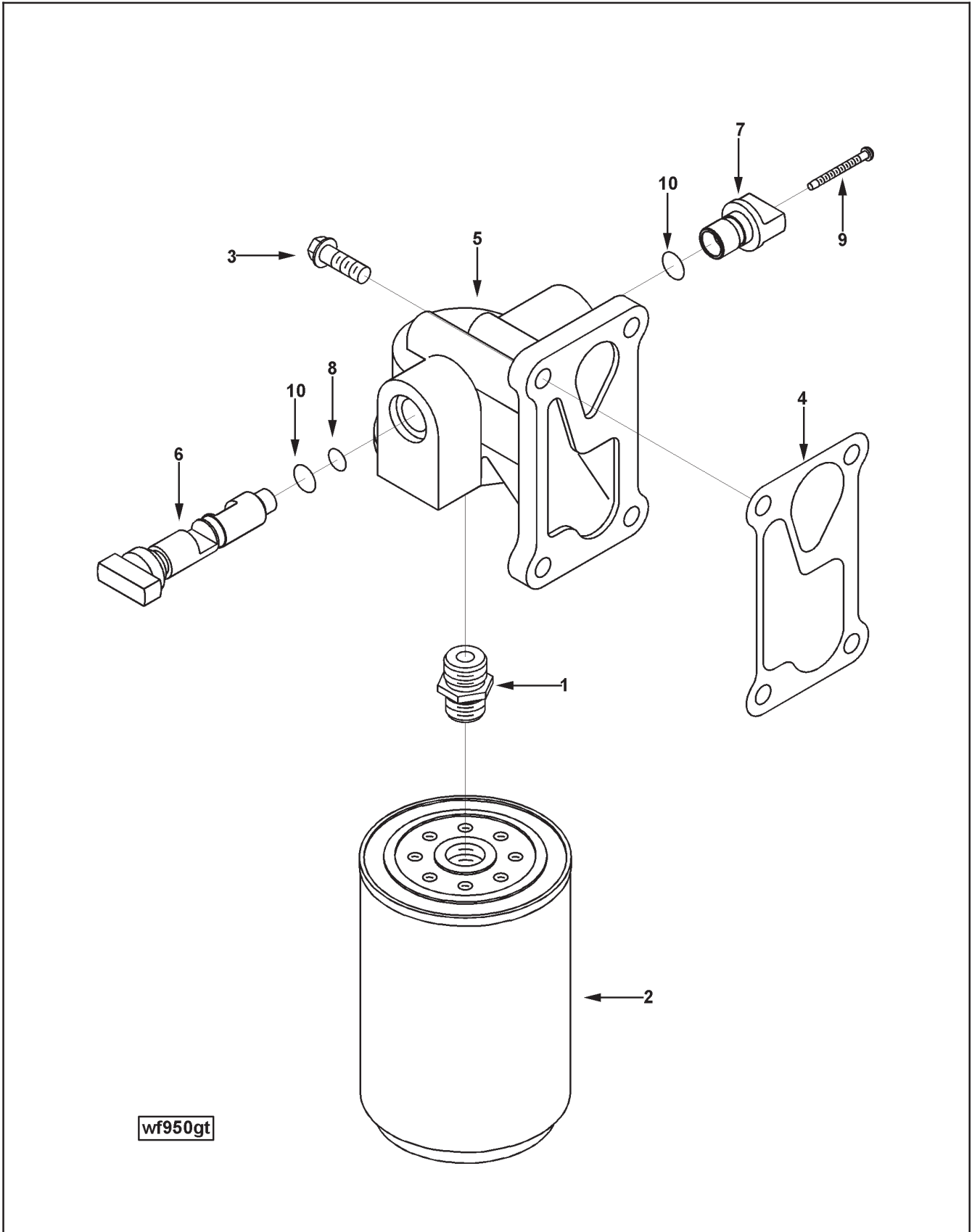
Ref No.	Part Number	Part Name	Req	Remarks
TORQUE CONVERTER OIL COOLE OPTION TK9022				
1	3089238 (3089239)	Plug, Threaded	2	MR - TORQUE CONVERTER OIL COOLER For Use When No External Bypass is Re- quired for Torque Converter Cooler
2	3089240	Plug, Threaded Seal, O Ring	1	
			1	



Ref No.	Part Number	Part Name	Req	Remarks
		TURBOCHARGER PLUMBING OPTION TP97218		MR - TURBOCHARGER PLUMBING Design Phase: Pegasus Engine Family: C Series Cylinders: 6 Exhaust Outlet Location: HMRO From Engine Centerline (mm): -197.3 From Crank Centerline (mm): 568.5 From Front Face of Block (mm): -559 Supply Line Routing: N/A Drain Location: Mid-Block Provision From Engine Centerline (mm): -118.2 From Crank Centerline (mm): 112.3 From Front Face of Block (mm): -443.5 Turbocharger Type: HY40W VG Acutation Line: N/A Drain Line Type: Rigid Bearing Housing Cooling Provision: N/A
1	3965818	Clamp, Tube	1	
2	3093956	Screw, Hex Flange Head Cap	1	M8 x 1.25 x 12
3	3282159	Hose, Flexible	1	
4	3412320	Clamp, Hose	2	
5	3900630	Screw, Hex Flange Head Cap	2	M8 x 1.25 x 20
6	3286499	Hose, Plain	1	
7				Not Used In This Option
	3922789	Connector, Male	2	
8	3678603	Seal, O Ring	1	
9	(3922790)	Connector, Male	1	M12 x 1.50 x 11/16-16
10	3922794	Seal, O Ring	1	
11	3931824	Seal, O Ring	1	
12	3937706	Gasket, Oil Drain	1	Holset P/N 3519807
13	3945108	Connection, Tur Oil Drain	1	
14	3943819	Tube, Tur Oil Drain	1	

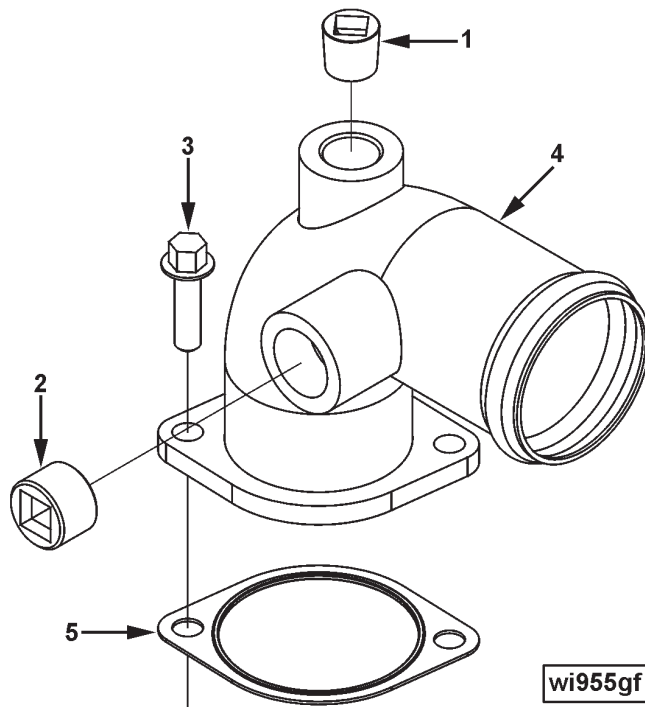
Ref No.	Part Number	Part Name	Req	Remarks
		<p style="text-align: center;">ARRANGEMENT, VALVE COVER OPTION VC9156</p>		<p>Mr - valve cover Engine Family: C And "L" Series engine design phase: Pegasus alpha Cylinders: 6 Fill Location: Front Integral Breather: Yes color: Base engine logo: Cummins.</p>

Ref No.	Part Number	Part Name	Req	Remarks
		COVER, VALVE OPTION VC9784		Mr - valve cover Engine Family: "L" Series engine design phase: Pegasus alpha Oil Fill Provisions: Yes Oil Fill Location: Front Centerline of crank to centerline of filler(mm): 637 Centerline of engine to centerline of filler(mm): -25 front face of block to centerline of filler(mm): -80 noise suppression provision: Yes valve cover color: Base engine isolated gasket system: Yes integrated breather: Yes engine brake compatible: Yes logo: Cummins.
	3900632	Screw, Hex Flange Head Cap	7	M8 x 1.25 x 35
	3901865	Screw, Hex Flange Head Cap	1	M6 x 1.00 x 20
	3959799	Isolator, Vibration	8	
	3969812	Cover, Valve	1	
	3901865	Screw, Hex Flange Head Cap	2	M6 x 1.00 x 20
	3913638	Screw, Hex Flange Head Cap	2	M6 x 1.00 x 16
	3957987	Housing, Breather	1	
	3073966	Seal, O Ring	1	
	3957926	Housing, Breather	1	
	3959798	Gasket, Valve Cover	1	
	3959799	Isolator, Vibration	8	
	3967464	Cover, Valve	1	
	3968202	Cap, Filler	2	
	(3968283)	Cap, Filler	1	
	3990084	Seal, O Ring	1	
	3968202	Cap, Filler	1	
	3972686	Screw, Hex Flange Head Cap	1	M8 x 1.25 x 45

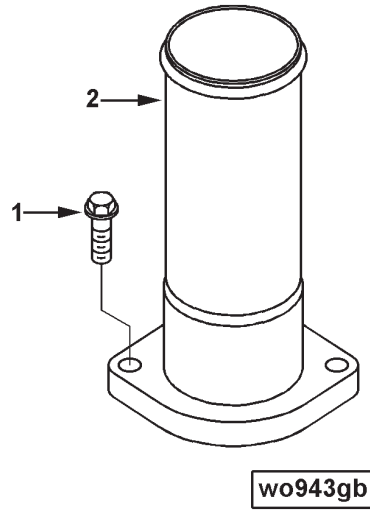


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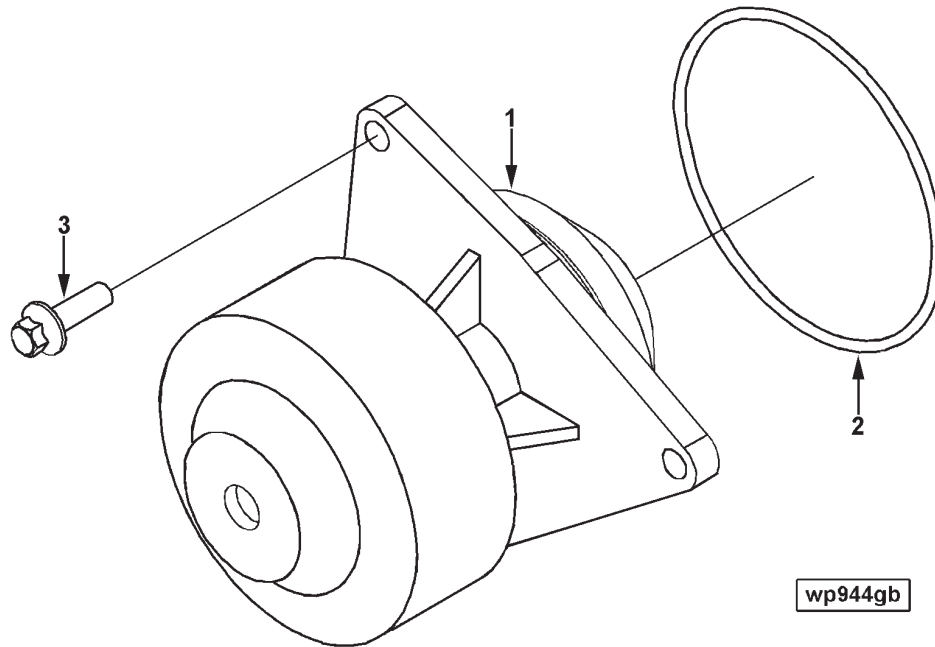
Ref No.	Part Number	Part Name	Req	Remarks
		CORROSION RESISTOR OPTION WF9079		MR - CORROSION RESISTOR Element Type: Spin-On Inhibitor Type: 23 Units DCA4 + Filter Dimensions (mm): 93.7 OD x 137.5 Length Removal Distance (mm): 15.5 Filter Mounting Location: Exhaust Side Centerline of Engine to Centerline of Filter (mm): -201.8 Centerline of Crank to Top of Filter (mm): 267.5 front From Front Face of Block to Engine to Centerline of Filter (mm): -491.8 Decal Included: No
1	206963	Adapter, Filter Head	1	
2	4058965	Resistor, Corrosion	1	
3	3900631	Screw, Hex Flange Head Cap	4	M8 x 1.25 x 25
4	3937367	Gasket, Corrosion Resistor	1	
	3945110	Head, Corrosion Resistor	1	
5	3943738	Head, Corrosion Resistor	1	
6	3943739	Shaft, Shutoff Valve	1	
7	3943740	Shaft, Shutoff Valve	1	
8	3943857	Seal, O Ring	1	
9	3944454	Screw, Self Tapping Metal	1	
10	3966716	Seal, O Ring	2	



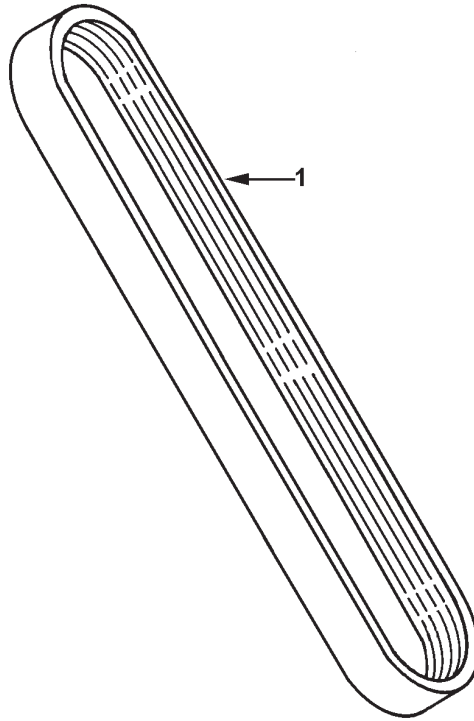
Ref No.	Part Number	Part Name	Req	Remarks
		CONNECTION, WATER INLET OPTION WI9198		Mr - water inlet connection Inlet Connection Outside Diameter (mm): 57.2 Connection Type: Beaded Connection Orientation: Vertically downward mounting provision: 2 x 9.5mm thru mounting hole pitch (mm): 80 Centerline of engine to OEM interface (mm): -287.2 Centerline of crank to OEM interface (mm): 11 front face of block to OEM interface (mm): -126 Unique characteristics 1/2in. NPTF tapping facing outwards, 3/4in. NPTF tapping facing rearward.
1	3008468	Plug, Pipe	1	1/2 NPT
2	3008469	Plug, Pipe	1	3/4 NPT
3	3900630	Screw, Hex Flange Head Cap	2	M8 x 1.25 x 20
4	3945111	Connection, Water Inlet	1	
5	3945603	Gasket, Connection	1	



Ref No.	Part Number	Part Name	Req	Remarks
		WATER OUTLET CONNECTION OPTION WO9052		MR - CONNECTION, WATER OUTLET Connection Orientation: Pointing Up Connection Location: From Crank Centerline to Top of Connection (mm): 476.0 From Engine Centerline to Centerline of Connection (mm): 144.5 From Front Face of Block to Centerline of Connection (mm): 53.5 Connection Outside Diameter (mm): 57.2 Connection Length (mm): 144.0 Engine Family: C Series
1	3900631	Screw, Hex Flange Head Cap	2	M8 x 1.25 x 25
2	3944429	Connection, Water Outlet	1	

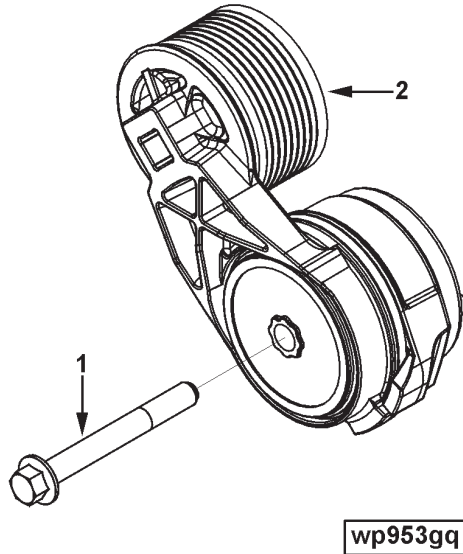


Ref No.	Part Number	Part Name	Req	Remarks
		WATER PUMP OPTION WP9101		MR - PUMP, WATER Pulley Material: Hardened (55 Rockwell) Pulley Type: Smooth Drive Ratio: 1.80:1 Pulley Diameter (mm): 110.0 Required Damper Pulley Effective Diameter Over 2.5mm Balls (mm): 199.42 Engine Design Phase: Pegasus, Tier 2 Engine Family: C & L Series Unique Characteristics: Saturated Nitrile Bellows
1	4089647 (3973114)	Kit, Water Pump Pump, Water	1	Recon Equivalent 4089647 NX Sold In Higher Level Assy/Kit
2	3940386	Seal, O Ring	1	
3	3093730	Screw, Hex Flange Head Cap	3	M8 x 1.25 x 25

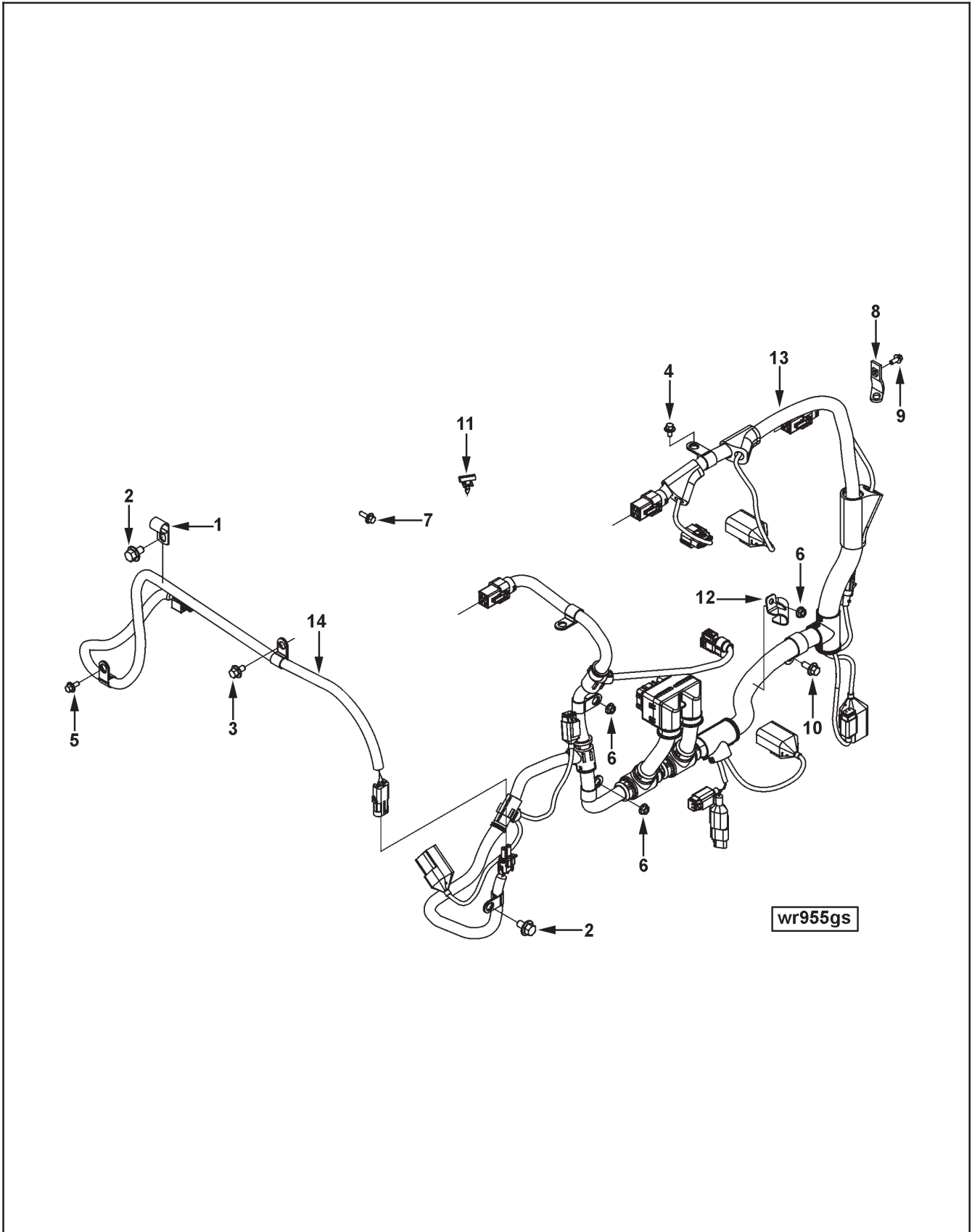


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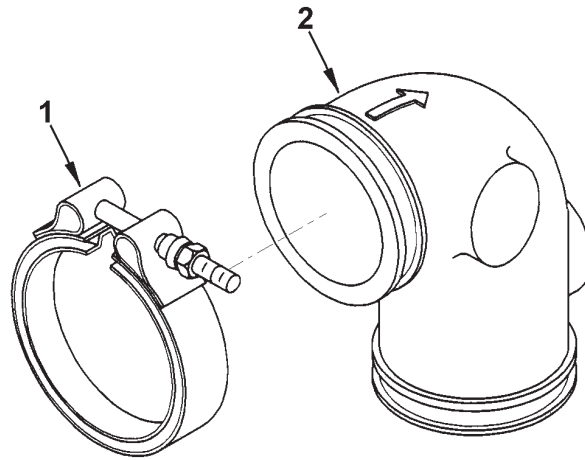
Ref No.	Part Number	Part Name	Req	Remarks
1	3972376	<p style="text-align: center;">WATER PUMP DRIVE OPTION WP9165</p> <p>Belt, V Ribbed</p>	1	<p>MR - BELT, FAN DRIVE Belt Length (mm): 2165.0 Material: Orion</p>



Ref No.	Part Number	Part Name	Req	Remarks
		BELT TENSIONER OPTION WP9270		MR - TENSIONER, BELT Engine Family: C & L Series Pulley Groove Profile: Poly V 8 Rib K Tensioner Pulley Diameter Over 2.5mm Balls (mm): 73.95 Pulley Material: Ductile Iron Dust Shield Included: Integrated Into Tensioner
1	3282433	Screw, Hex Flange Head Cap	1	M10 x 1.50 x 85
2	3974102	Tensioner, Belt	1	



Ref No.	Part Number	Part Name	Req	Remarks
		EXTERNAL CONTROL MODULE OPTION WR9230		MR - HARNESS, ETR CTN MODULE WIRING Engine Design Phase: Pegasus Industrial Beta Turbocharger Type: WG Turbocharger Location: All Coolant Temp Jumper Length (mm): TBD OEM Connector Location: ECM OEM Connector Type: 50 Pin and 4 Pin Voltage: 12 or 24 Engine Family: C Series ECM Type: CM850
1	68152	Clip	1	
2	3089384	Screw, Hex Flange Head Cap	2	
3	3093956	Screw, Hex Flange Head Cap	1	M8 x 1.25 x 12
4	3900625	Screw, Hex Flange Head Cap	1	M6 x 1.00 x 10
5	3900626	Screw, Hex Flange Head Cap	1	M6 x 1.00 x 12
6	3906216	Nut, Hexagon Flange	3	M6 x 1.00
7	3913638	Screw, Hex Flange Head Cap	1	M6 x 1.00 x 16
8	3919294	Brace, Tube	1	
9	3925381	Screw, Hex Flange Head Cap	1	
10	3925883	Screw, Hex Flange Head Cap	1	M8 x 1.25 x 16
11	3963736	Clip, Wire Retaining	8	
12	3975901	Brace, Wiring	1	
13	3976494	Harness, Etr Cnt Mdl Wrg	1	
14	3976940	Harness, Etr Cnt Mdl Wrg	1	



xs950gf

Ref No.	Part Number	Part Name	Req	Remarks
		EXHAUST OUTLET CONNECTION OPTION XS9321		MR - EXHAUST OUTLET CONNECTION Engine Cylinders: 6 Exhaust Pipe Diameter: 4 in. Connection Angle: 90 Degree Connection Material : Ductible Iron Note: May Be Used With Catalytic Converter Location: All
1	3905216	Clamp, V Band	1	
2	3927862	Pipe, Exhaust Outlet	1	

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