



Doosan Infracore
Portable Power



**PARTS
MANUAL
P600 WIR
HP450 WIR
VHP400 WIR**

Code:

B

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Section A - Parts Ordering

GENERAL

This publication, which contains an illustrated parts breakdown, has been prepared as an aid in locating those parts which may be required in the maintenance of the unit. Always insist on genuine Ingersoll Rand branded parts for your unit.

Doosan Infracore Portable Power can bear no responsibility for injury or damages resulting directly from the use of non-approved repair parts.

Portable Power service facilities and Ingersoll Rand parts are available worldwide. Consult local yellow pages or visit: www.doosanportablepower.com.

Special order parts may not be included in this manual. Contact the Portable Power Parts Department with the unit serial number for assistance with these special parts.

Description

The illustrated parts breakdown illustrates and lists the various assemblies, subassemblies and detailed parts which make up this particular machine. This covers the standard models and the more popular options that are available.

In referring to the rear, the front or to either side of the unit, always consider the drawbar end of the unit as the front.

Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

Fasteners

Both SAE/inch and ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners.

How To Order

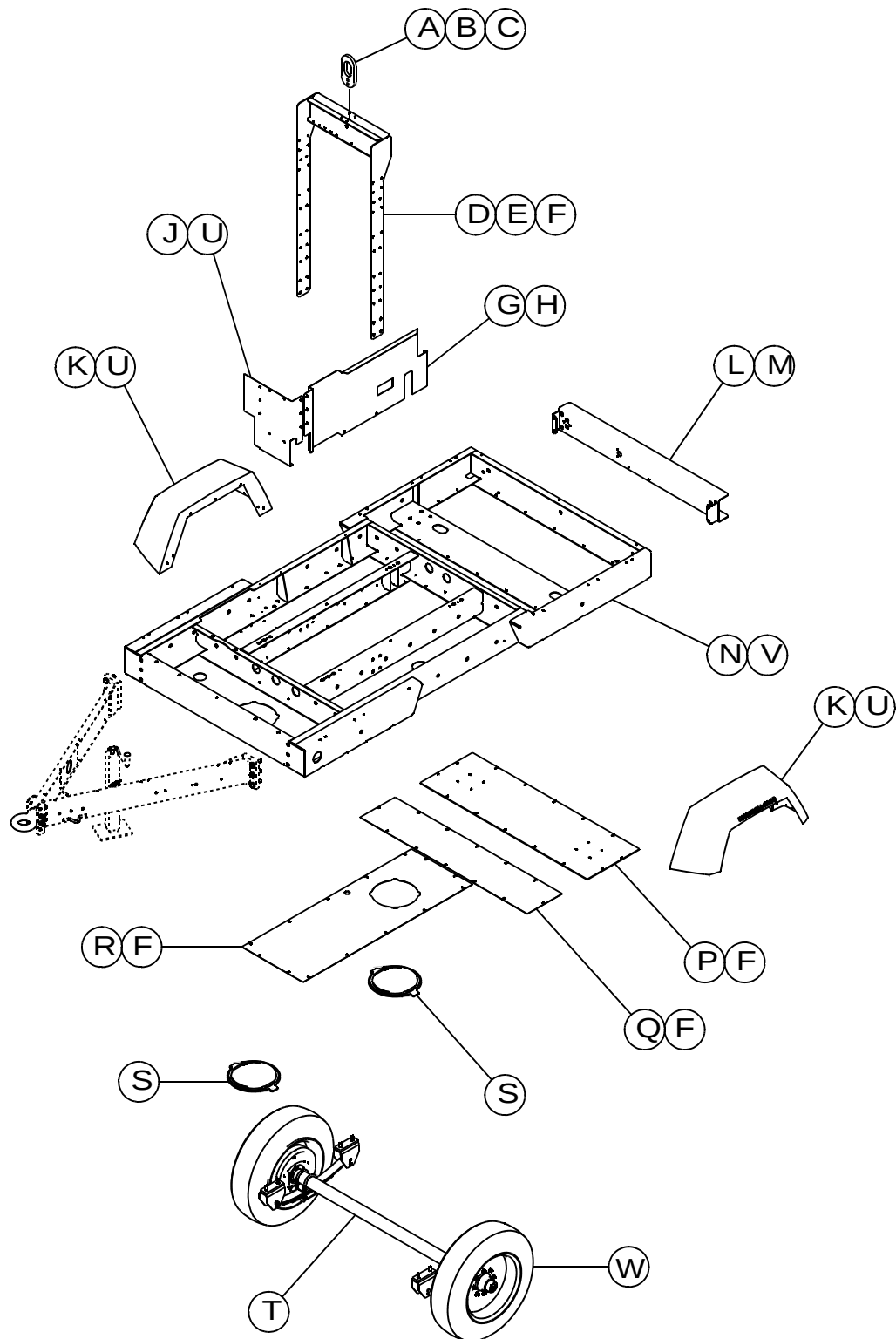
Always specify the model and serial number of the unit.

Specify the part number and description.



Section B - COMPRESSOR PARTS

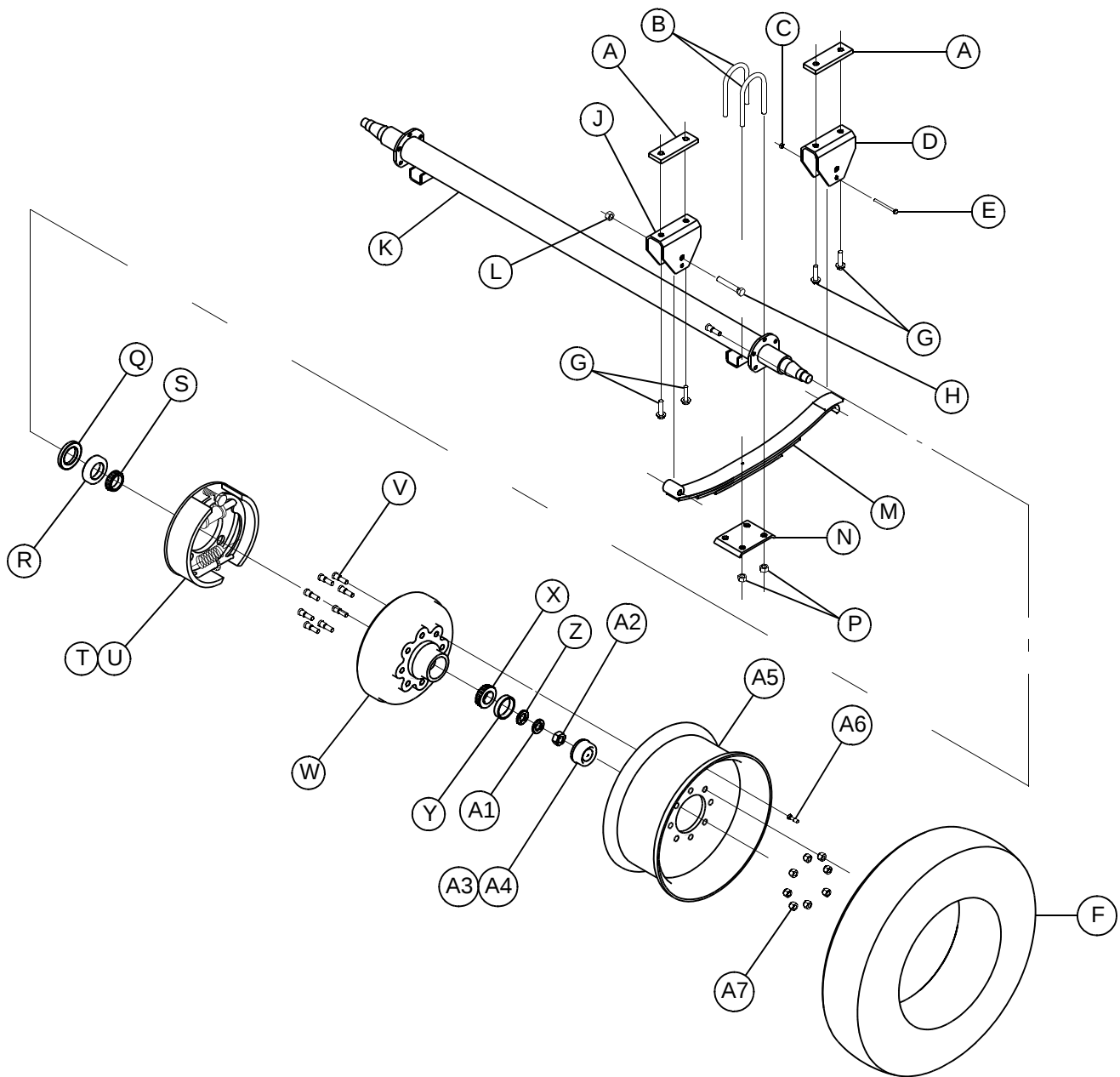
Frame and Running Gear



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54759113	Plate, Bail Eye	1	
B	36765121	Screw, Hex M16-2.0 X 55	2	
C	96704630	Nut, Hex Nyloc M16-2.0	2	
D	54774203	Bail, Lifting	1	
E	36879492	Screw, Hex Flange M12-1.75 X 25	8	
F	35279025	Screw, Tapping M08-1.25 X 20	44	
G	22058333	Guard, Toolbox	1	
H	92368687	Screw, Tapping M06-1.0 X 14	8	
J	22109011	Panel, Toolbox Small	1	
K	36877579	Fender	2	
L	54667902	Bumper	1	
M	36888055	Screw, Hex Flange M12-1.75 X 30	4	
N	54762166	Frame	1	
P	54774120	Pan, Rear Belly	1	
Q	54774138	Pan, Center Belly	1	
R	54774153	Pan, Front Belly	1	
S	36880623	Cover, Flexible Access	1	
T	54738943	Running Gear	1	
U	36797652	Screw, Tapping M06-1.0 X 12	15	
V	54772041	Plug, Snap-in-Hole	10	
W	44015808	Tire and Wheel Assembly	2	

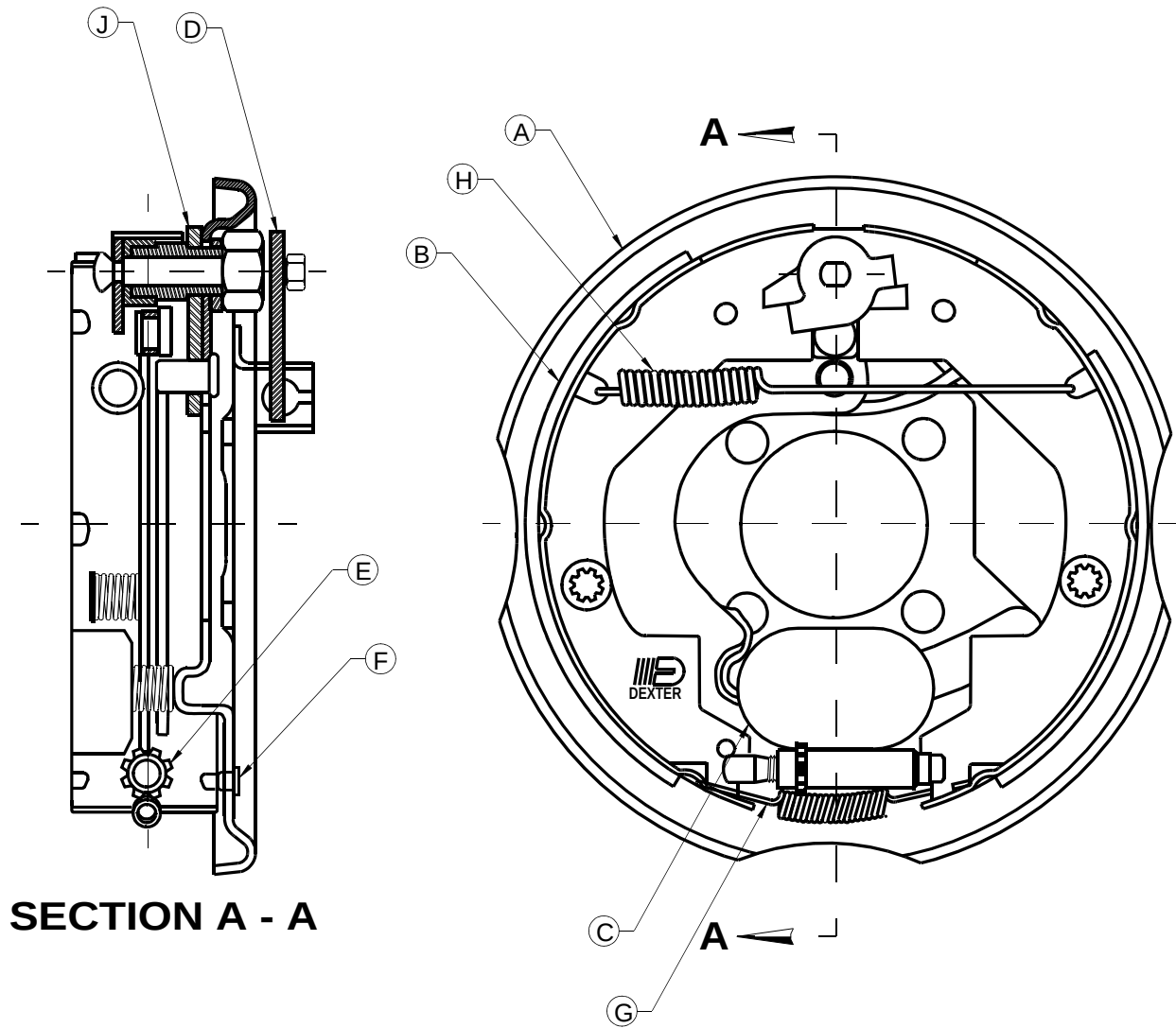
Running Gear



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36880599	Spacer, Running Gear	4	
B	35316959	U-Bolt, 1/2-20	4	
C	35315373	Nut, Keeper 5/16-18	2	
D	35326966	Hanger, Rear	2	
E	35315365	Bolt, Keeper 5/16 -18 X 3.25	2	
F	22161947	Tire, ST235/80R16	2	
G	96747399	Screw, Hex M12-1.75 X 40	8	
H	35315340	Bolt, Shackle 9/16-18 X 3.50	2	
J	35326958	Hanger, Front	2	
K	22053995	Beam, Axle	1	
L	35315357	Nut, Lock 9/16-18	2	
M	35315126	Spring, Slipper	2	
N	35316967	Plate, Tie	2	
P	35315258	Nut, U-Bolt 1/2-20	8	
Q	36865962	Seal, Grease	2	
R	35316884	Cup, Inner Bearing	2	
S	35316876	Cone, Inner Bearing	2	
T	36855377	Brake Assembly, LH	1	
U	36855385	Brake Assembly, RH	1	
V	35361898	Stud, Wheel 1/2-20 X 1.84	16	
W	35388669	Hub, Drum w/ Studw	2	
X	35316918	Cone, Outer Bearing	2	
Y	35316900	Cup, Outer Bearing	2	
Z	35315209	Washer, Spindle	2	
A1	35390012	Washer, Tang	2	
A2	35315217	Nut, Spindle	2	
A3	35393792	Cup, Grease	2	
A4	35391135	Plug, Rubber EZ-Lube	2	
A5	22969414	Wheel 16 X 6K	2	
A6	35148204	Stem, Valve	2	
A7	35315274	Nut, Wheel 1/2-20	16	

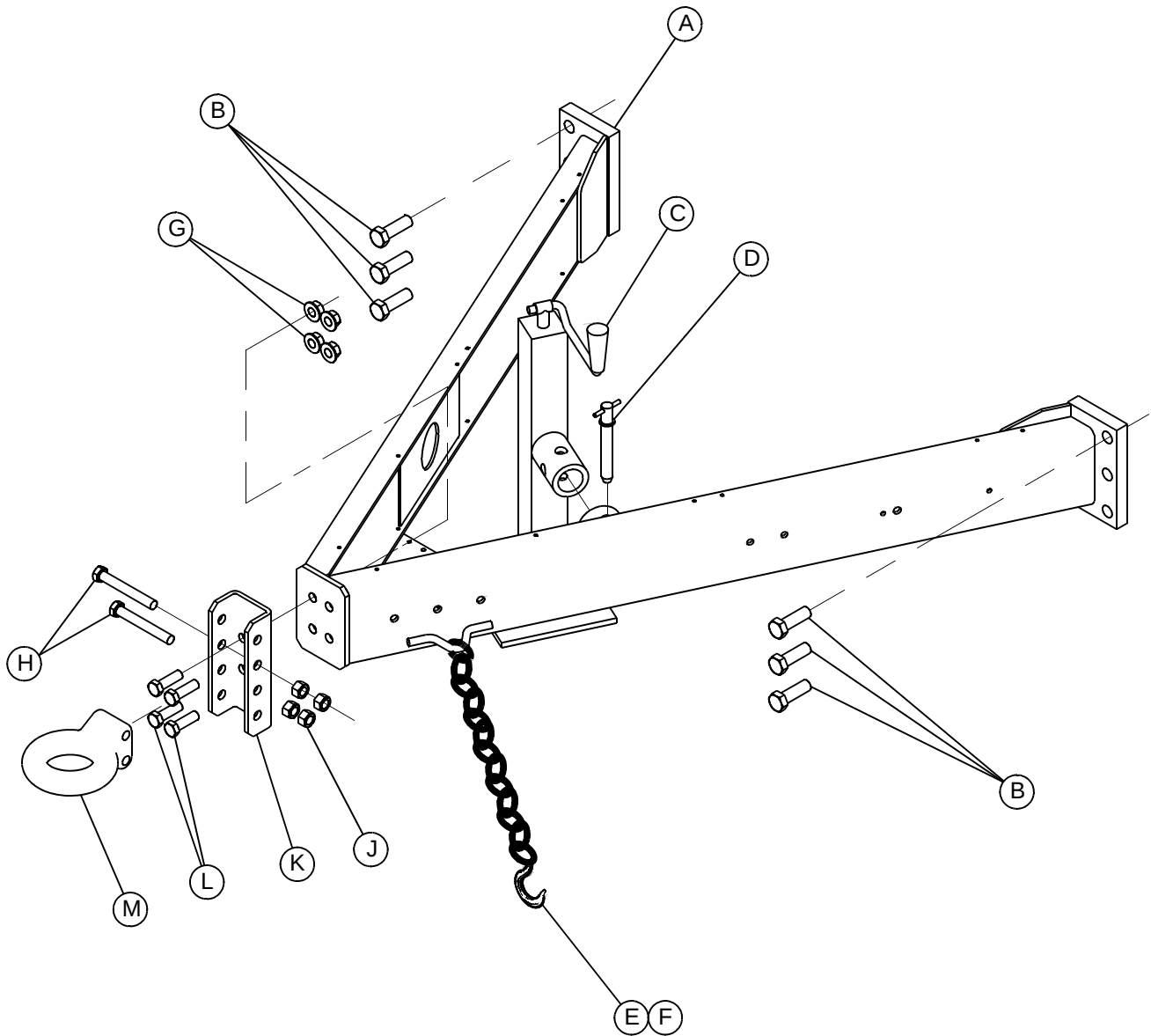
Electric Brake Shoe



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35390830	Plate Assembly, LH Backing	1	
	35390848	Plate Assembly, RH Backing	1	
B	36895803	Shoe Kit, Brake	1	
C	36895811	Magnet Kit	2	
D	35390913	Lever, Parking Brake	2	
E	35393727	Screw Assembly, Adjusting	2	
F	35391069	Plug, Adjusting Slot	2	
G	35363727	Spring Kit, Adjusting Screw and	2	
H	35391002	Spring, Retractor	2	
J	36895829	Lever Kit, LH Actuating	1	
	36895837	Lever Kit, RH Actuating	1	

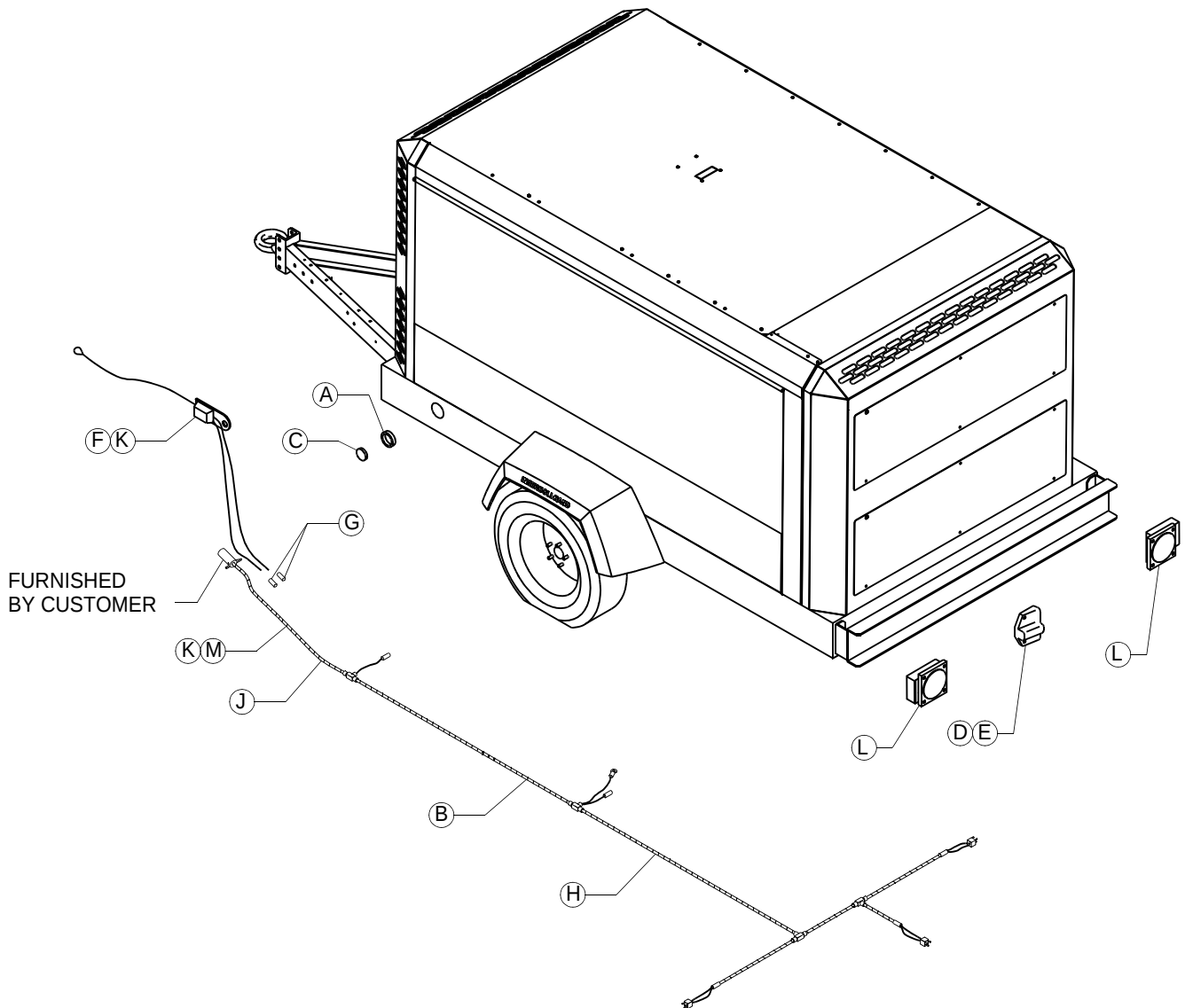
Drawbar



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54767280	Drawbar	1	
B	36763670	Screw, Hex M20-2.50 X 60	6	
C	54443577	Jack Assembly	1	
D	35609544	Pin, Quick Release	1	
E	35372432	Link, Coupling	2	
F	35610377	Chain & Hook Assembly.	2	
G	36879211	Nut, Hex Flange M16-2.0	4	
H	35376094	Screw, Hex M16-2.0 X 120	2	
J	96701750	Nut, Hex M16-2.0	4	
K	36757284	Channel, Pintel Mounting	1	
L	39179072	Screw, Hex M16-2.0 X 50	4	
M	35605187	Eye, Pintel	1	

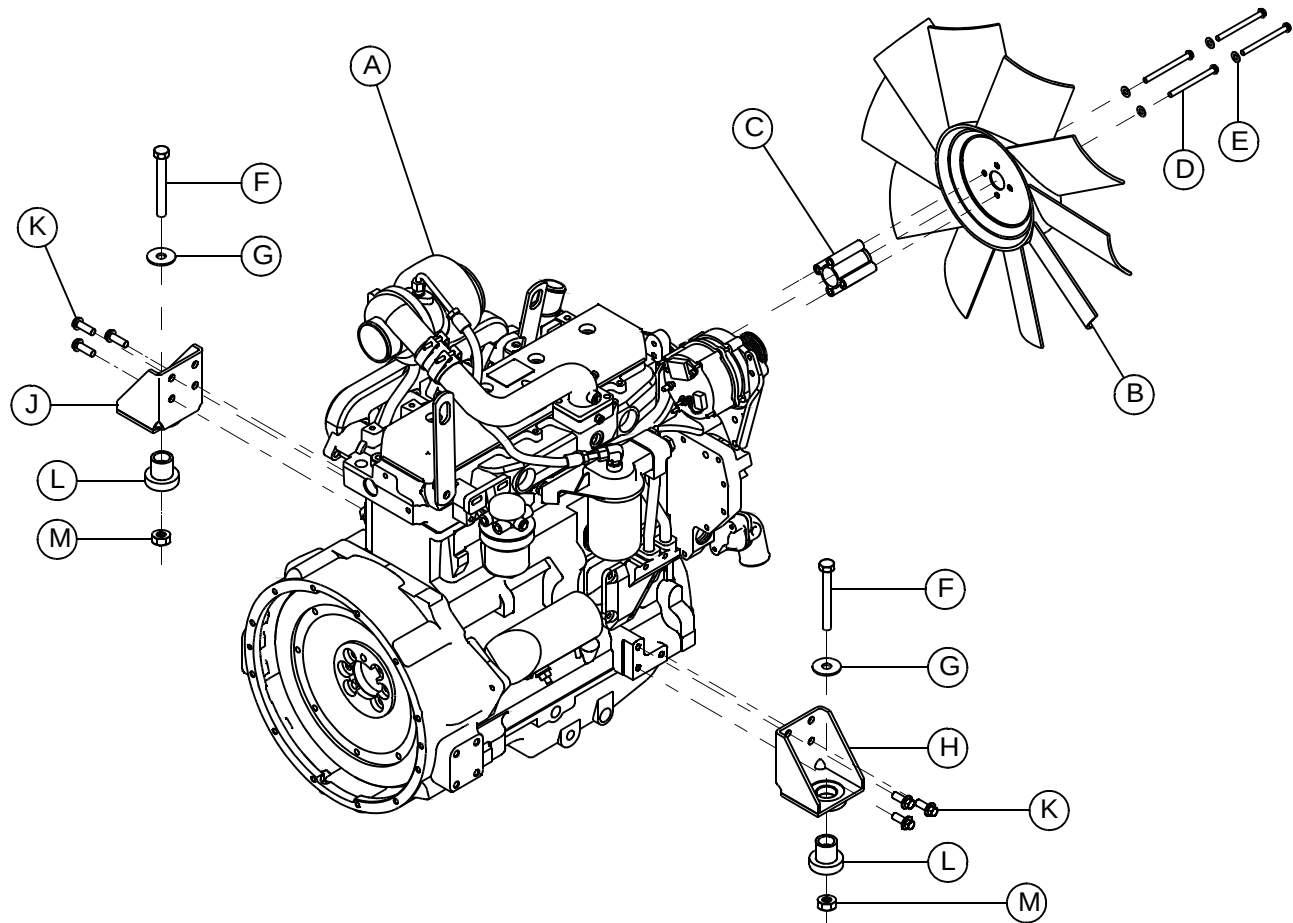
Electric Brake Wiring



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36893634	Grommet, Side Light	2	
B	54761101	Harness, Lightling	1	
C	35367051	Light, Amber Cearance	2	
D	36895860	Light, License	1	
E	36782837	Screw, Hex Sheetmetal #10 X 1.0"	2	
F	35315944	Switch, Breakaway	1	
G	37140365	Splice, Insulated	2	
H	35253038	Clamp, 3/8" Support	3	
J	35225077	Clamp, Support	4	
K	36797652	Screw, Tapping M06-1.0 X 12	2	
L	54671557	Light, Stop/Tail/Turn	2	
M	37001252	Clamp, Support	1	

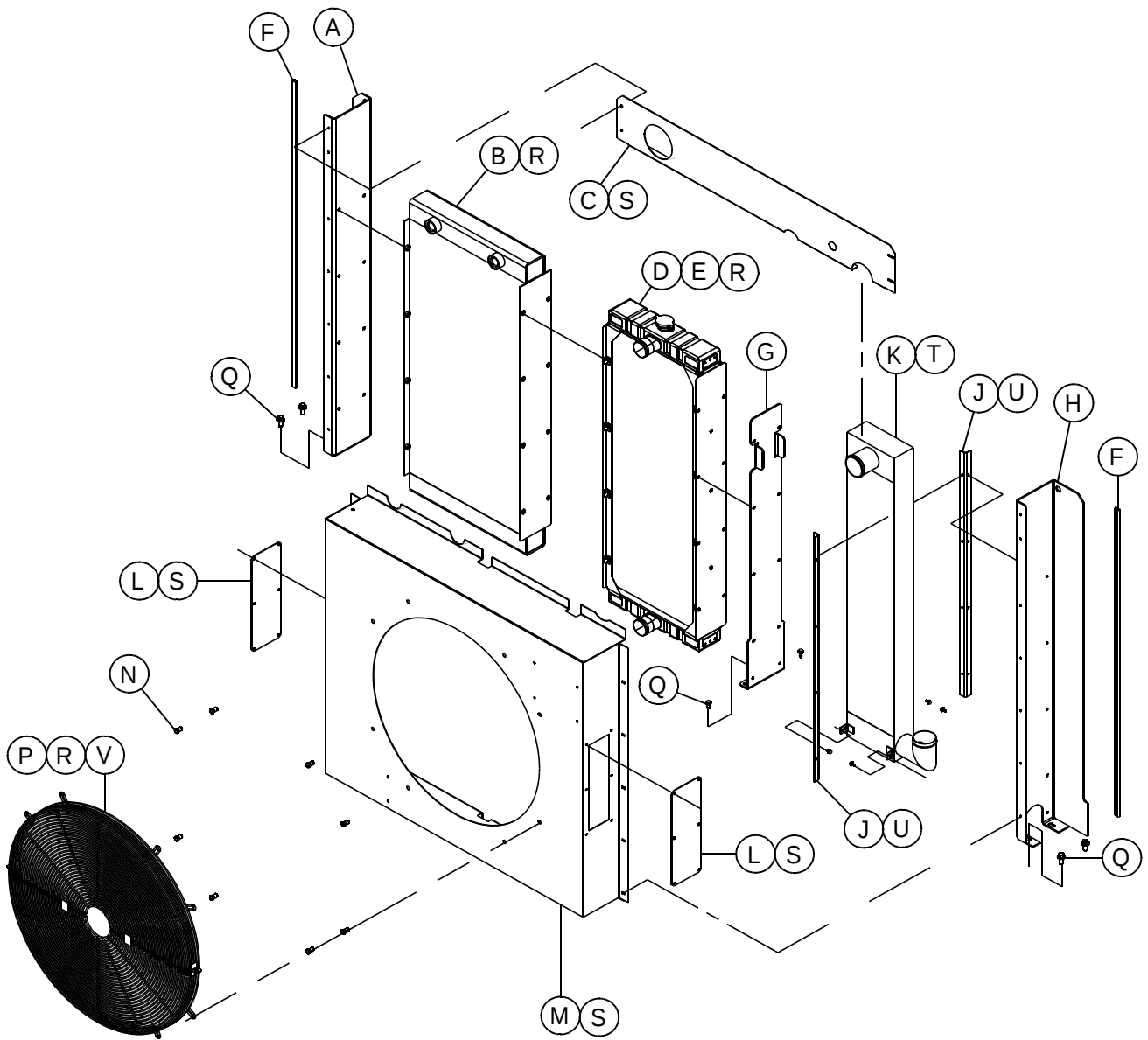
Engine Mount



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22884613	Engine	1	
B	22712350	Fan	1	
C	54749056	Spacer, Fan	1	
D	96726435	Screw, Hex M08-1.25 X 100	4	
E	96701396	Washer, Flat M08	4	
F	96701503	Screw, Hex M16-2.0 X 90	2	
G	35327212	Washer, Snubber	2	
H	54756739	Mount, STSD Engine	1	
J	54756507	Mount CRBSD Engine	1	
K	36879492	Screw, Hex Flange M12-1.75 X 25	6	
L	54756697	Isolator, Center Bond	2	
M	96704630	Nut, Hex Nyloc M16-2.0	2	
	22206148	Element, Oil Filter	1	
		Element, Primary Fuel Filter	1	
	22969257	Element, Final Fuel Filter	1	

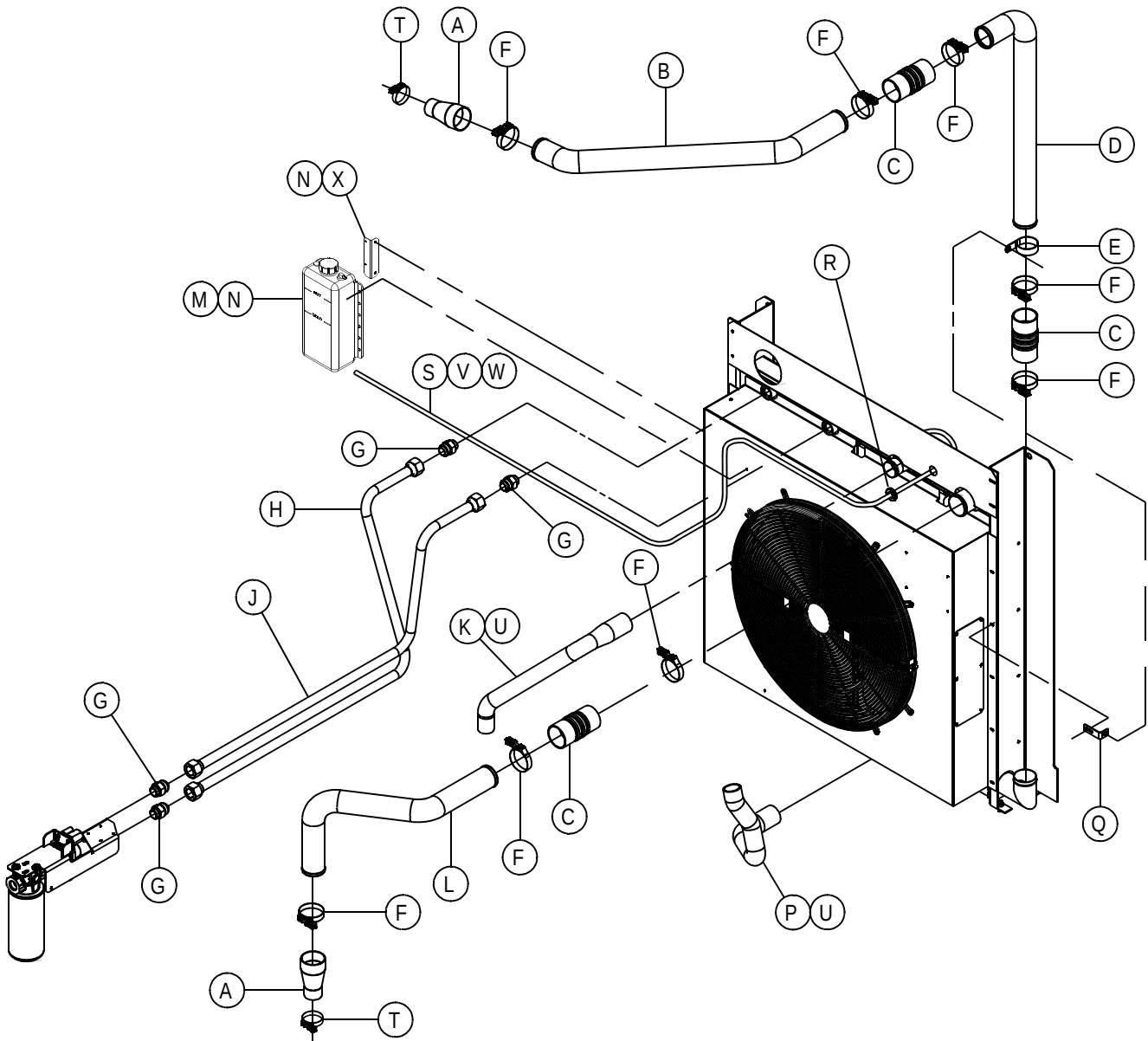
Coolers, Fan Guard and Shroud



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22890941	Baffle, CRBSD Cooler	1	
B	22872675	Cooler, Oil	1	
C	22890966	Baffle, Radiator Top	1	
D	22872667	Radiator	1	
E	23264096	Cap, Radiator	1	
F	23240310	Guard, Door Edge	2	
G	22929095	Support, Radiator	1	
H	22890958	Baffle, STSD Cooler	1	
J	22888200	Channel, Mounting Charge Air Cooler	2	
K	22872683	Cooler, Charge Air	1	
L	22746630	Cover, Cooler Access	2	
M	22890974	Shroud, Fan	1	
N	36895746	Nutsert, Hex M08	8	
P	22124093	Guard, Fan	1	
Q	36879492	Screw, Hex Flange M12-1.75 X 25	6	
R	36889608	Screw, Hex Flange M08-1.25 X 25	34	
S	36797652	Screw, Tapping M06-1.0 X 12	34	
T	35279025	Screw, Tapping M08-1.25 X 20	2	
U	92368687	Screw, Tapping M06-1.0 X 14	8	
V	36881886	Nut, Hex Flange M08-1.25	2	

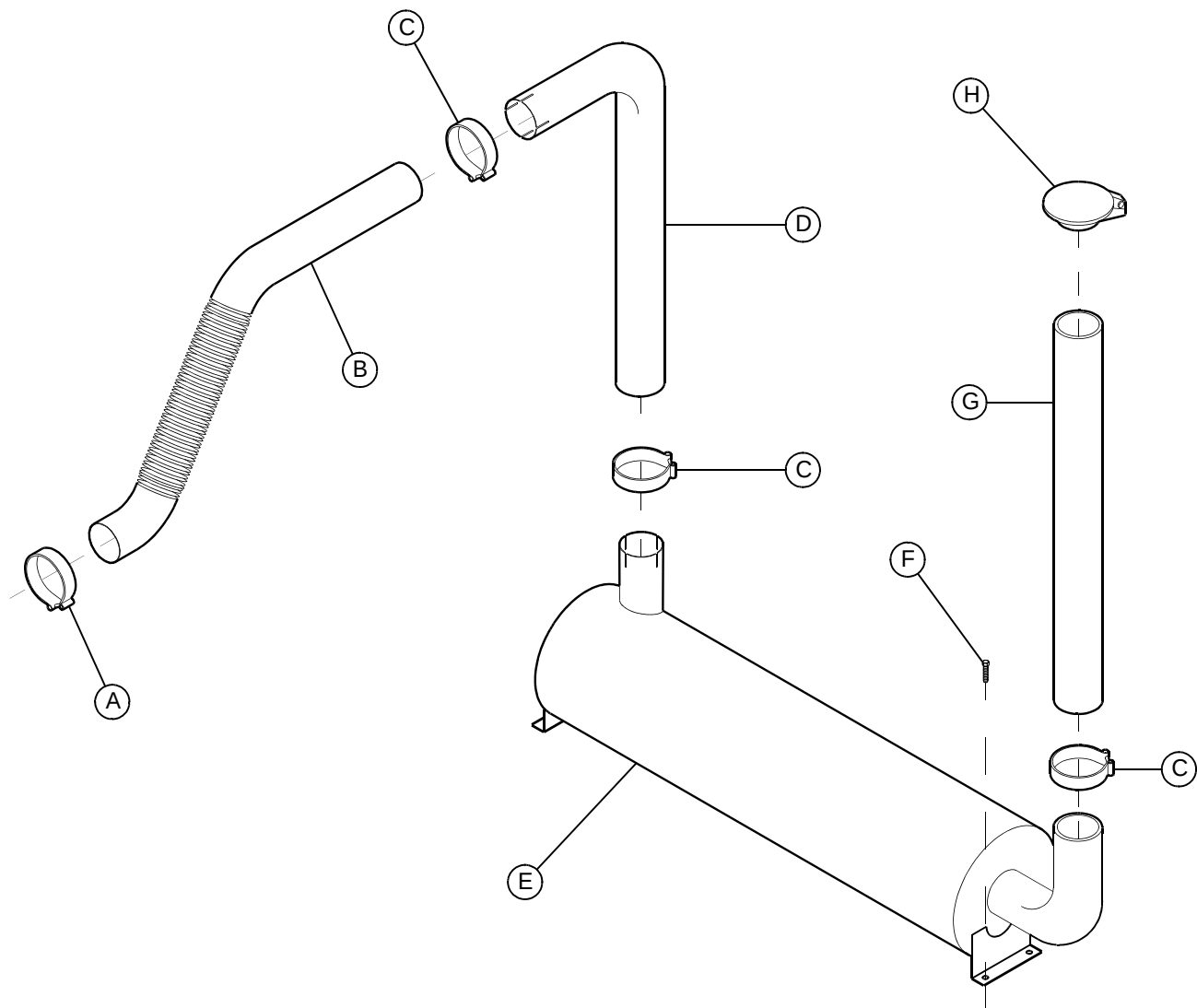
Cooler Piping



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22189310	Reducer	2	
B	23056930	Tube, Charge Air Lower	1	
C	22058556	Hose, STR-Bellows	3	
D	23056955	Tube, Charge Air Bottom	1	
E	35145408	Clamp, Support	1	
F	22144513	Clamp, Spring Loaded T-Bolt	8	
G	95315289	Connector, 1.31-12 X 1.62-12	4	
H	23013022	Tube, Oil Cooler	1	
J	23013030	Tube, Oil Cooler	1	
K	22891618	Hose, Top Radiator	1	
L	23056948	Tube, Charge Air Upper	1	
M	36845600	Bottle, Overflow	1	
N	36797652	Screw, Tapping M06-1.0 X 12	4	
P	22891626	Hose, Bottom Radiator	1	
Q	35190487	Bracket, Tube Clamp	1	
R	35285162	Grommet, 3/4" ID		
S	35360775	Tubing, 5/16" ID	48"	
T	22189302	Clamp, Spring Loaded T-Bolt	2	
U	35221639	Clamp, Hose	4	
V	35253038	Clamp, 3/8" Rubber Coated Support	2	
W	35296342	Clamp, Worm Gear	2	
X	23242779	Bracket, Coolant Bottle	1	
Y	92398130	Screw, Hex Flange M08-1.2 X 20	1	
Z	36881886	Nut, Hex Flange M08-1.25	1	

Exhaust

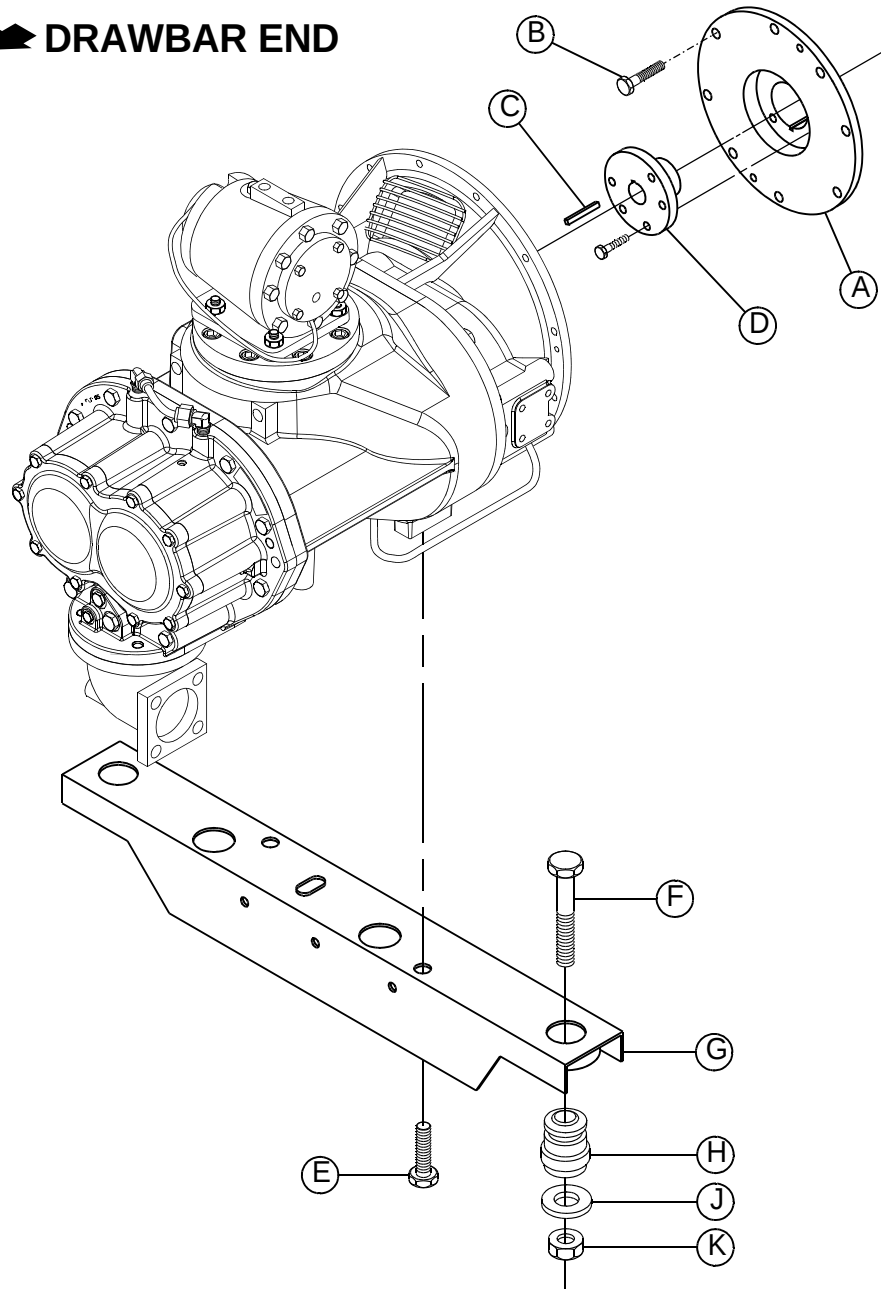


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36881175	Clamp, Exhaust	1	
B	22153530	Tube, Engine Exhaust	1	
C	35313303	Clamp, 4" Seal	3	
D	22184774	Tube, Exhaust	1	
E	22152250	Muffler	1	
F	35279025	Screw, Tapping M08-1.25 X 20	4	
G	54774229	Pipe, Exhaust	1	
H	35504364	Cap, Rain	1	

Airend Mounting

➡ **DRAWBAR END**

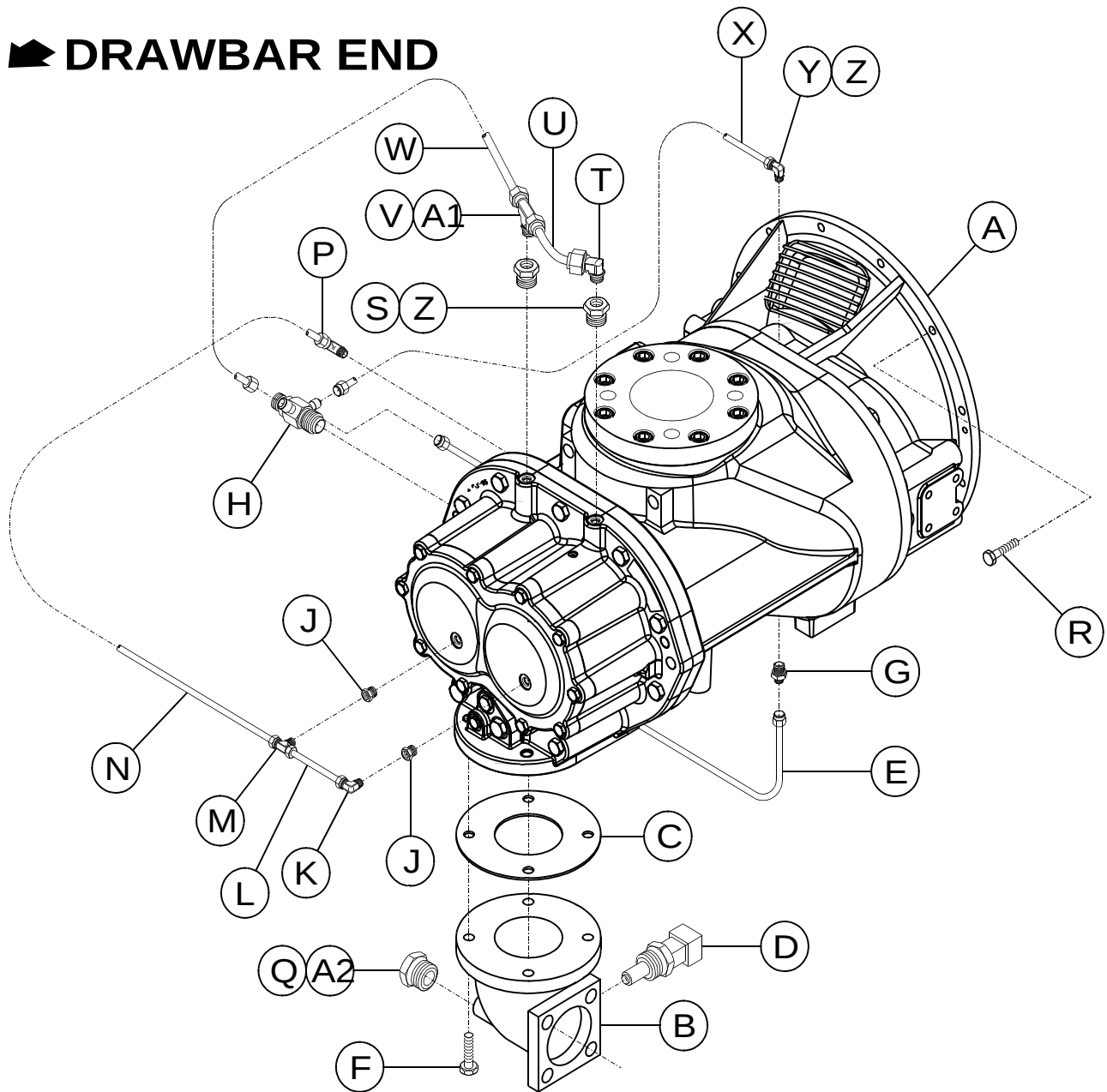


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35834787	Coupling, Clutch	1	
B	95220604	Screw, Socket Head 3/8-16 X .75"	8	
C	35364975	Key, 1/2" SQ X 2.75"	1	
D	35103852	Buching, Clutch	1	
E	35375591	Screw, Hex M16-2.0 X 30	2	
F	35290113	Screw, Hex M16-2.0 X 75	2	
G	42308511	Support, Airend	1	
H	35318229	Isolator, Center Bond Mount	2	
J	35327212	Washer, Snubber	2	
K	96704630	Nut, Hex Nyloc M16-2.0	2	

Airend Piping

► DRAWBAR END

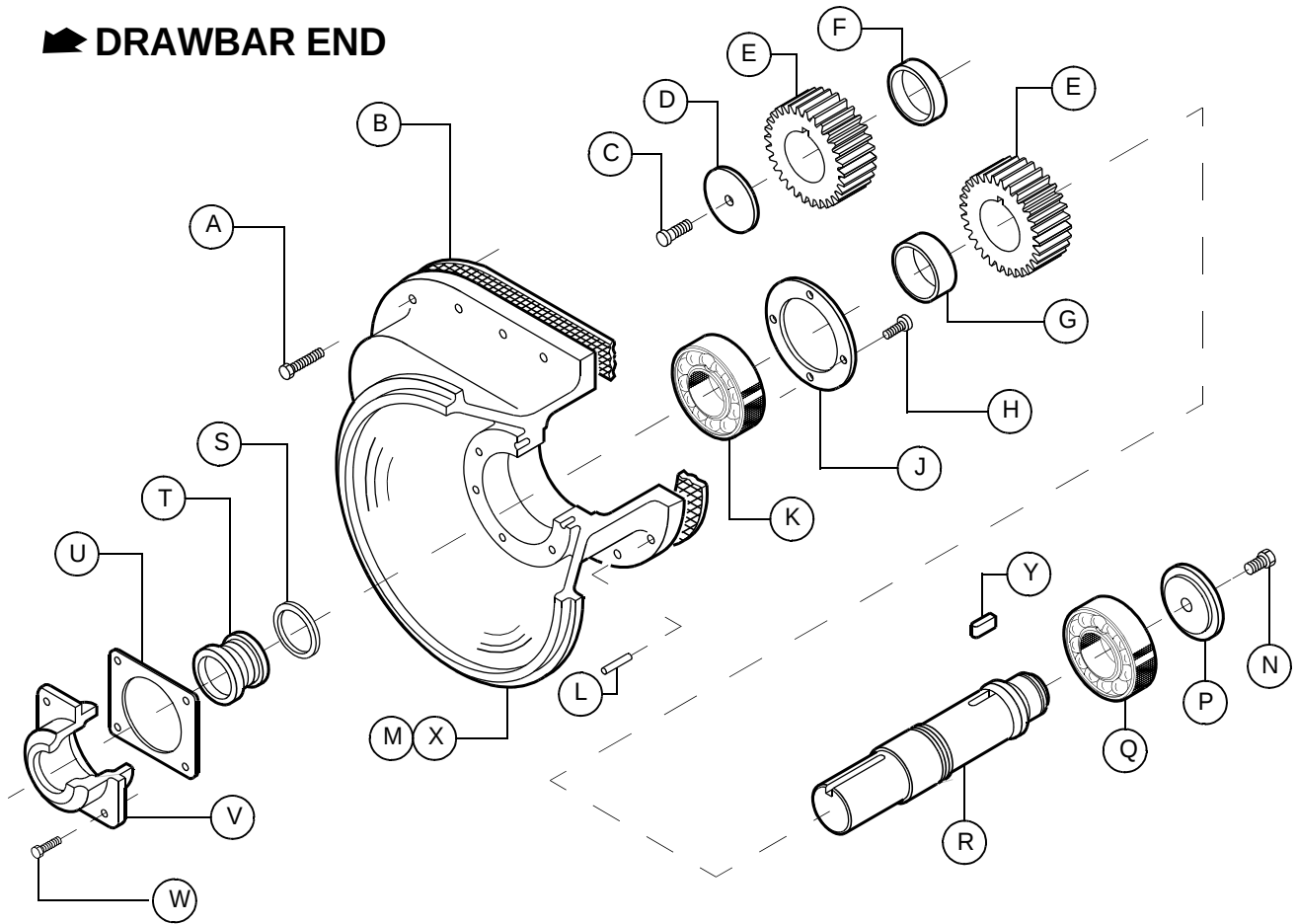


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36010643	Airend Assembly	1	P600, 7/170
	36011534	Airend Assembly	1	HP450, 10/125
	36018042	Airend Assembly	1	VHP400, 14/115
B	22247340	Elbow, Discharge	1	
C	35575570	Gasket, Airend Discharge	1	
D	36898922	Switch, Alarm	1	
E	22189609	Tube, Airend Oil	1	
F	35375385	Screw, Hex M16-2.0 X 40	4	
G	95402806	Adapter, 7/16"-20 X -6 JIC	1	
H	36845154	Manifold, Oil	1	
J	36846095	Connector, 3/4" O-RING	2	
K	35286491	Elbow, 7/8"-14 X -10 JIC	1	
L	36846111	Tube, Rear Scavenge	1	
M	36846129	Tee, 7/8"-14 X -10 JIC	1	
N	36846103	Tube, Bearing Oil Scavenge	1	
P	35305622	Elbow, 3/4"-16 X -10 JIC	1	
Q	35278555	Plug, Adapter	1	
R	36880995	Screw, Hex M10-1.75 X 30	12	
S	35287945	Expander, 9/16-18 X -6 JIC	2	
T	35279827	Elbow 9/16"-18 X -6 JIC	1	
U	36795482	Tube Assembly	1	
V	35279843	Tee, 9/16"-18 X -6 JIC	1	
W	36846087	Tube, Bearing Oil Supply	1	
X	22189591	Tube, Airend Oil	1	
Y	35279876	Elbow, 7/16"-20 X -4 JIC	1	
Z	35279959	O-Ring, 0.351" X 0.495"	3	
A1	35278571	O-Ring, 0.468" X 0.624"	1	
A2	35278589	O-Ring, 0.644" X 0.818"	1	

Alirend Gear Case

➡ DRAWBAR END

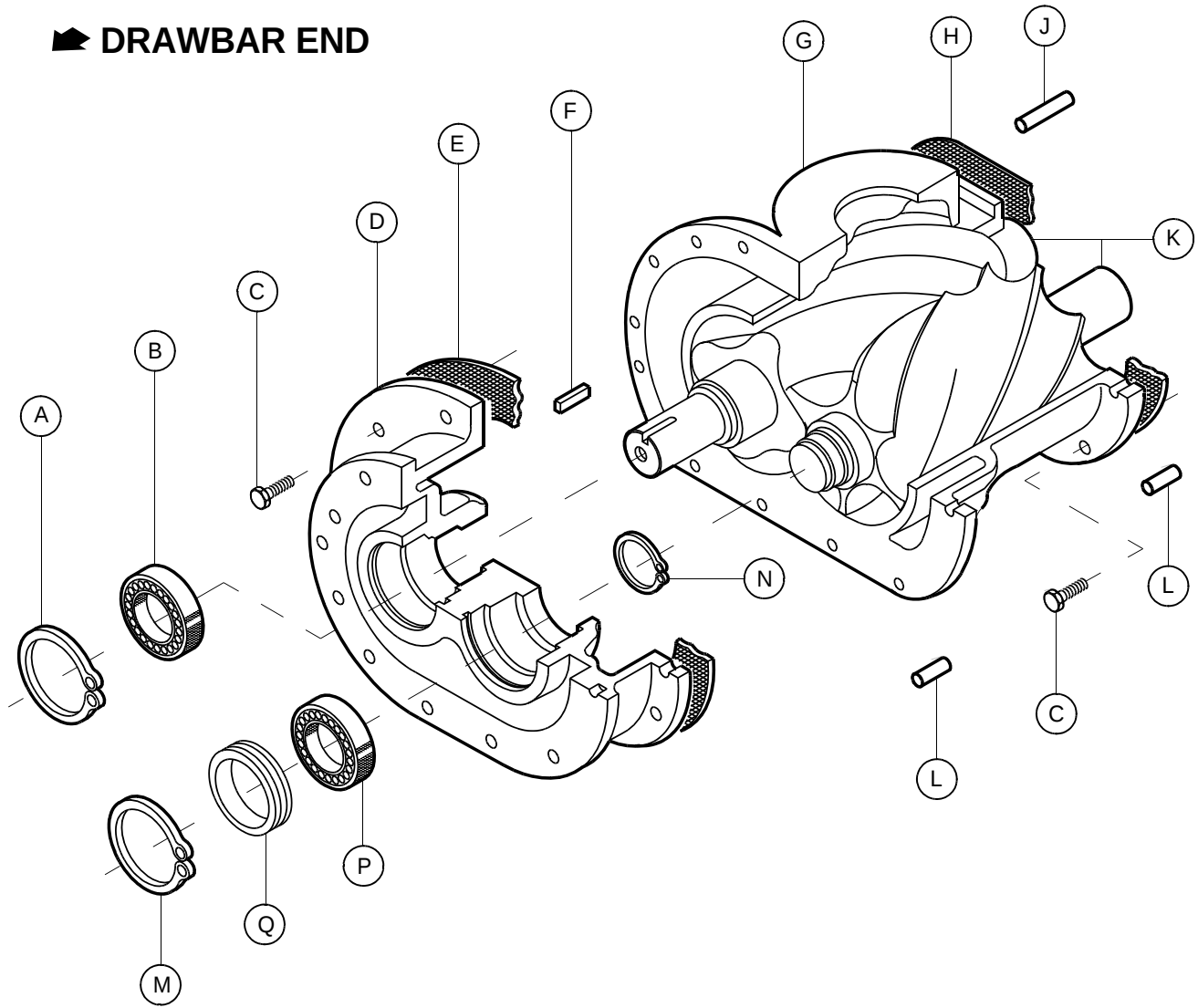


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	96716162	Screw, Socket Head M16-2.0 X 40	8	P600, 7/170 HP450, 10/125 VHP400, 14/115
B	39437637	Gasket	1	
C	35108372	Screw, Hex Head 1/2-13 X 1.25"	1	
D	35255827	Plate, Clamp	1	
E	36751659	Gear Set	1	
	36751667	Gear Set	1	
	35303429	Gear Set	1	
F	35262716	Spacer	1	
G	35269224	Spacer, Bearing	1	
H	95264149	Screw, Socket Head Cap 3/8"-16 X2.0"	4	
J	35573070	Plate, Retaining	1	
K	35601517	Bearing, Ball	1	
L	95239919	Pin, Dowel 1/2" X 1.25"	2	
M	35996164	Case, Gear	1	
N	35336304	Screw, Socket Head Cap M10-1.5 X 25	1	
P	36764785	Cap, Guide	1	
Q	35313568	Bearing, Cylindrical Roller	1	
R	36780906	Shaft, Drive	1	
S	95200945	Nut, Bearing Lock	1	
T	35593508	Seal, Oil	1	
U	35210087	Gasket	1	
V	35592757	Cover, Oil Seal	1	
W	96712187	Screw, Hex Head M12-1.75 X 30	6	
X	36798205	Guard, Gear Case	2	
Y	35361328	Key	1	

Alirend Rotor Housing

➡ DRAWBAR END

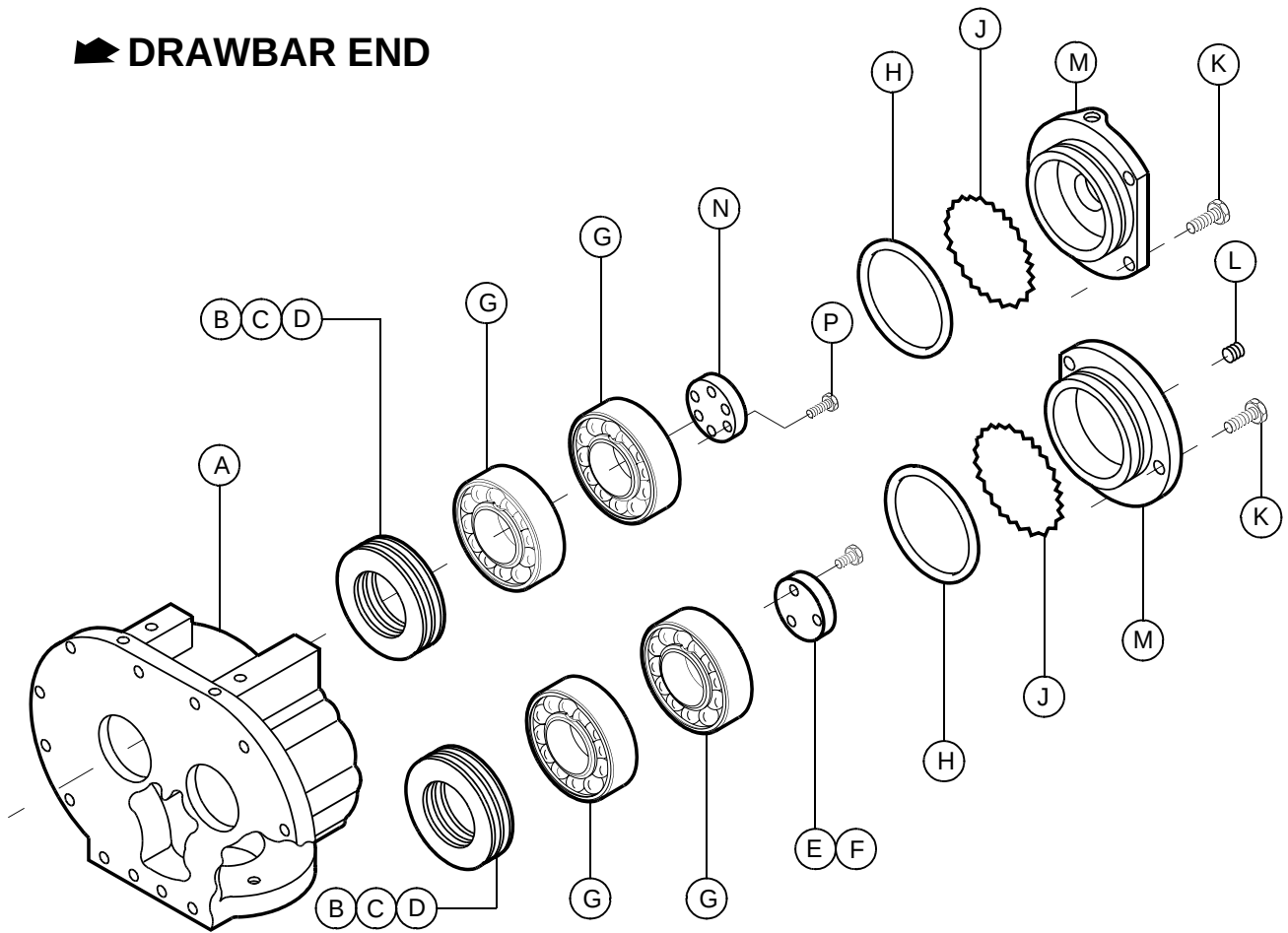


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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	95223194	Ring, Snap	1	
B	35313535	Bearing, Cylindrical Roller	1	
C	96716162	Screw, Socket Head M16-2.0 X 40	25	
D	39703921	Housing, Front Bearing	1	
E	35518497	Gasket, Front Bearing Housing	1	
F	95381109	Key, 3/8" Square	1	
G	39748942	Housing, Rotor	1	
H	39437629	Gasket, Rear Bearing Housing	1	
J	95239927	Pin, Dowel 1/2" X 1.5"	2	
K	36008241	Rotor Set	1	
L	35332915	Pin, Locator	2	
M	95223178	Ring, Snap	1	
N	95223806	Ring, Snap	1	
P	35609361	Bearing, Cylindrical Roller	1	
Q	35270131	Spacer, Bearing	1	

Alirend Rear Bearing Housing

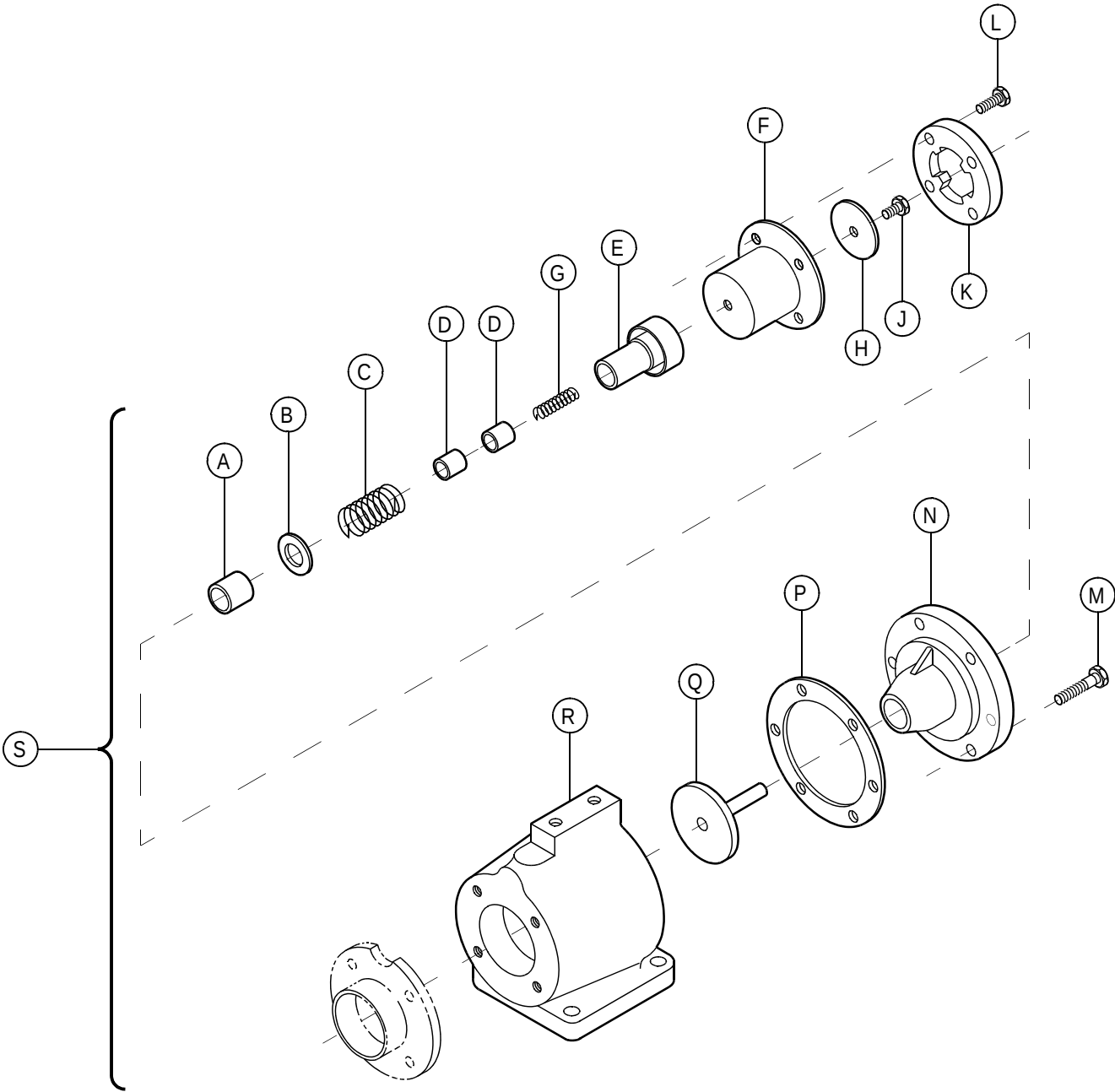
➡ **DRAWBAR END**



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36769404	Housing, Rear Bearing	1	
B	35313600	Shim, .002	4	
C	35313618	Shim, .003	4	
D	35364769	Shim, .010	2	
E	35262690	Plate, Clamp	1	
F	35104108	Screw, Hex Head 3/8-16 X 1.25"	3	
G	39437595	Bearing, Tapered Roller	4	
H	95358131	O-Ring	2	
J	35354448	Shim Set	2	
K	96712187	Screw, Hex Head M12-1.75 X 30	6	
L	95938205	Plug	1	
M	36500832	Cover, Rear Bearing	2	
N	39435441	Plate, Clamp	1	
P	95494167	Screw, Hex Socket Head Cap 5/16-18 X 1.25"	8	

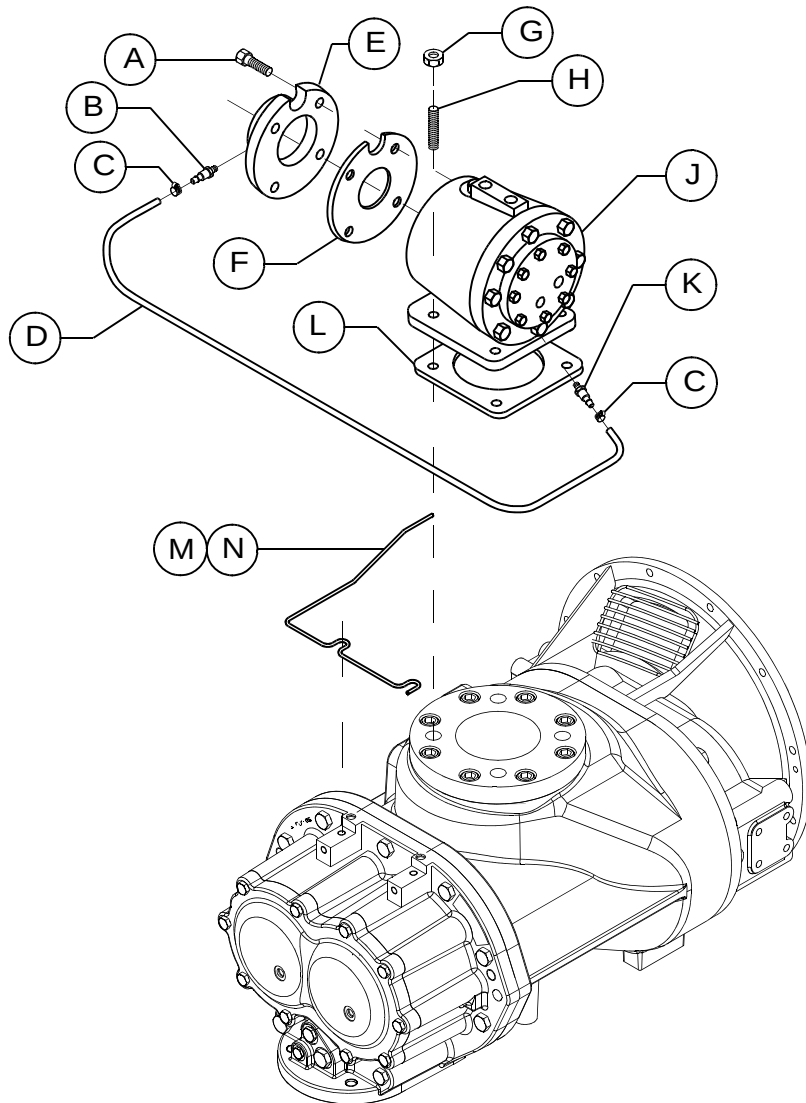
Unloader Assembly



ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35318013	Bushing, Housing	1	
B	35317205	Washer, Piston 43mm	1	
C	35322767	Spring, Piston	1	
D	35318005	Bushing, Piston	2	
E	35588193	Piston, Unloader	1	
F	35317197	Diaphragm	1	
G	35321603	Spring	1	
H	35317239	Washer, Piston 64mm	1	
J	35321595	Screw, Button Head Socket Cap M10-1.5 X 16	1	
K	36849461	Cover, Piston	1	
L	35271162	Screw, Hex M08-1.25 X 30	4	
M	96702287	Screw, Hex M10-1.50 X 25	6	
N	35833227	Housing, Piston	1	
P	35588300	Gasket, Piston	1	
Q	35591122	Valve, Unloader	1	
R	36849453	Body, Unloader	1	
S	36011567	Valve Assembly, Unloader	1	

Unloader Mounting

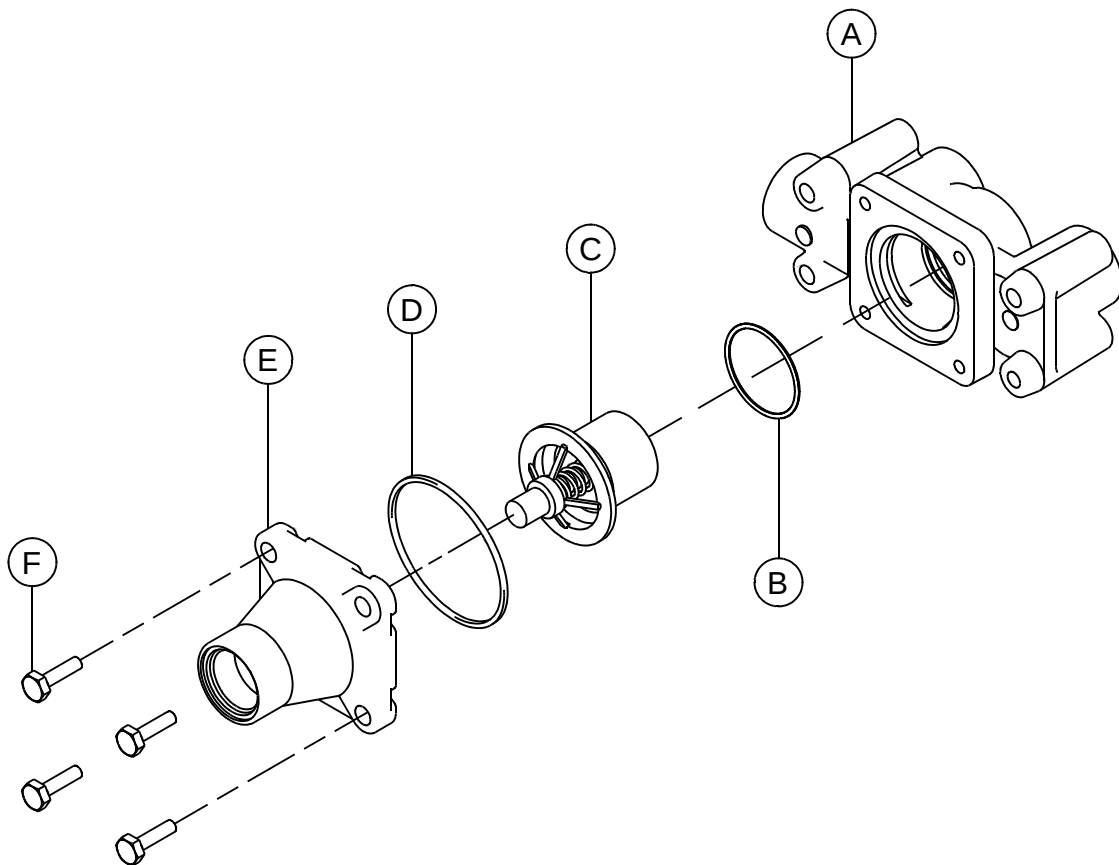
► DRAWBAR END



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	96702816	Screw, Hex M08-1.25 X 16	4	
B	35316587	Adapter, Barbed 1/8" X 1/8" NPT	1	
C	35377621	Clamp, Spring	2	
D	35282292	Tubing, Tygon 1/8" ID	14"	
E	35843168	Flange, Unloader Inlet	1	
F	35588318	Gasket, Unloader Inlet	1	
G	96701750	Nut, Hex M16-2.0	4	
H	35323450	Stud, M16-2.0 X 55	4	
J	35060631	Valve Assembly, Unloader	1	
K	35323542	Adapter, Unloader	1	
L	35589589	Gasket, Unloader to Airend	1	
M	23145360	Support, Wire	1	
N	96715057	Screw, Hex Socket Hd Cap M12-1.75 X 25	2	

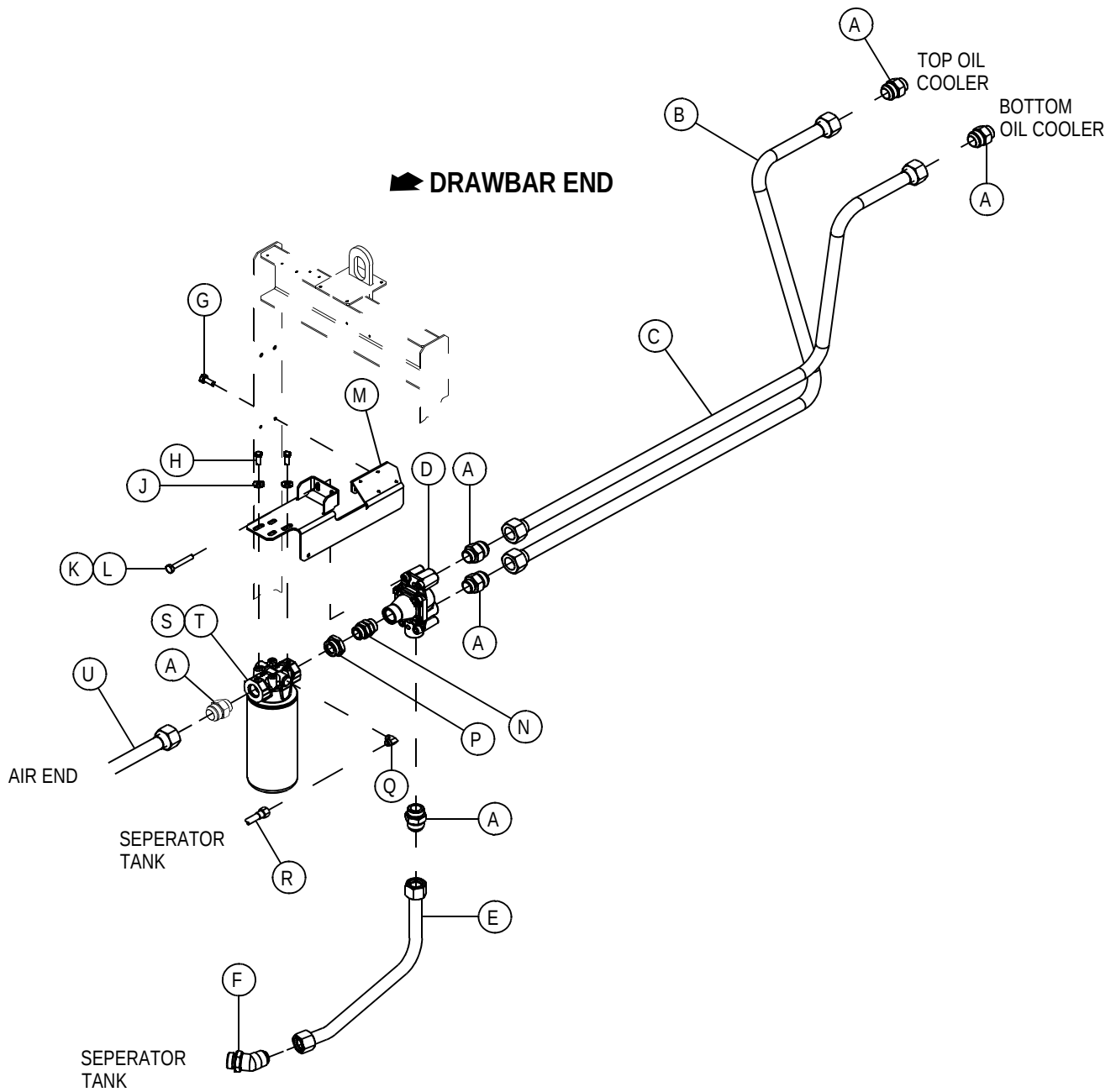
Oil Temperature Bypass Valve



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	23137821	Housing, OTBV	1	
B	36788172	Seal, U-Type Viton	1	
C	36782019	Element, 125° -145° F	1	
D	95022307	O-Ring	1	
E	36876779	Cover, OTBV	1	
F	96702659	Screw, Hex M08-1.25 X 25	4	

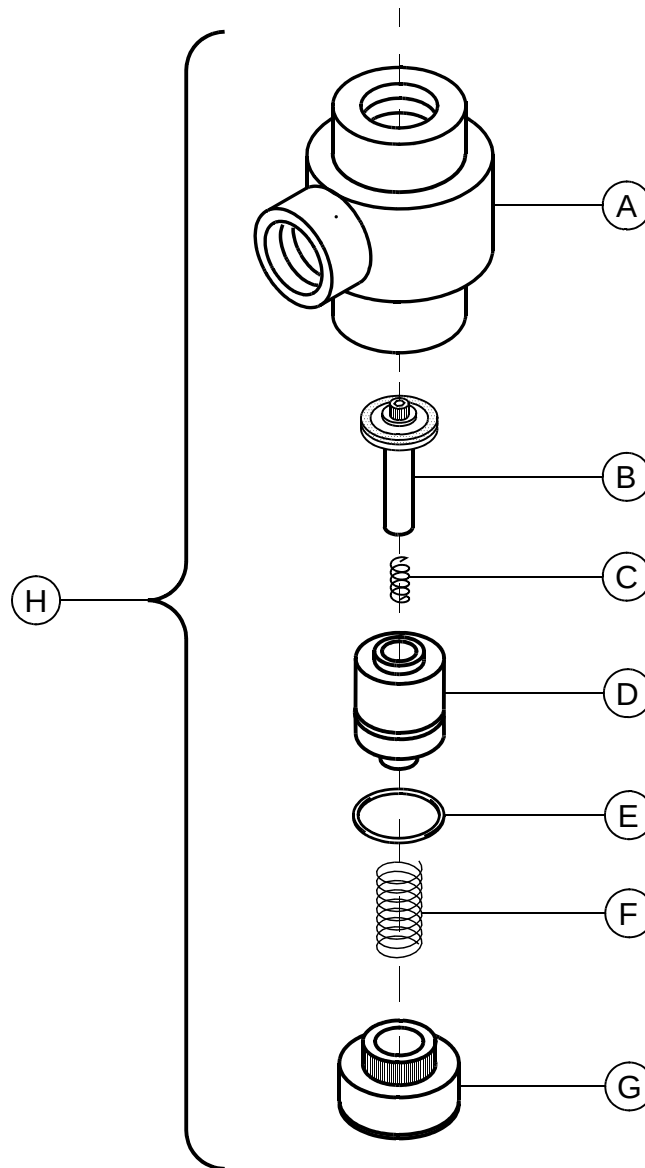
OTBV and Oil Filter Mounting



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	95315289	Connector, 1.3"1-12 X 1.62"-12	6	
B	23013022	Tube, Oil Cooler	1	
C	23013030	Tube, Oil Cooler	1	
D	23137953	OTBV Assembly, 1-5/16" SAE	1	
E	35227909	Hose, -16 X 25"	1	
F	95992632	Elbow, 45° X 1.31"-21 SAE	1	
G	35279025	Screw, Tapping M08-1.25 X 20	2	
H	35252493	Screw, Locking 3/8"-16 X 3/4"	2	
J	95935037	Washer, Flat	2	
K	36881886	Nut, Hex Flange M08-1.25	2	
L	35288422	Screw, Hex M08-1.25 X 80	2	
M	22915276	Support, Oil Filter	1	
N	95954921	Union, Straight 1.31-12 SAE	1	
P	95954913	Reducer, 1.62"-12 SAE X 1.31"-12 Female SAE	1	
Q	95365094	Elbow, 90° 9/16-18 X -4 JIC	1	
R	35282920	Hose, -4JIC X 30"	1	
S	36897437	Head, Oil Filter	1	
T	36897346	Element, Oil Filter	1	
U	35231455	Hose Assembly, -16 JIC X 22.25"	1	

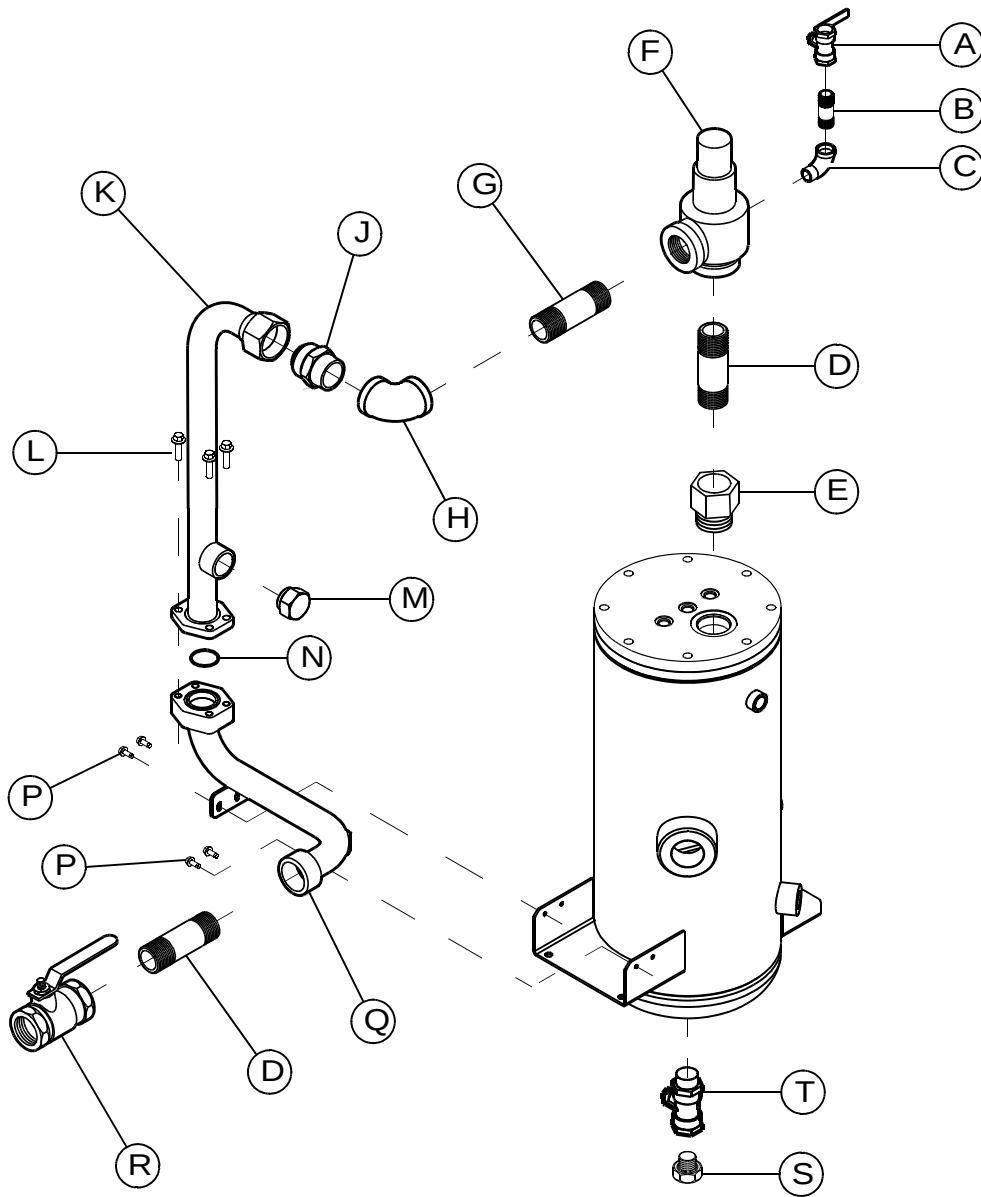
Minimum Pressure Valve



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22218424	Body, Minimum Pressure Valve	1	
B	35367317	CV Assembly	1	
C	22218457	Spring	1	
D	35367325	Piston	1	
E	35367374	O-Ring	1	
F	35367366	Spring	1	
G	22218432	Cap	1	
H	22217848	Minimum Pressure Valve Assembly	1	
~	22218622	Kit, Service Repair	AR	

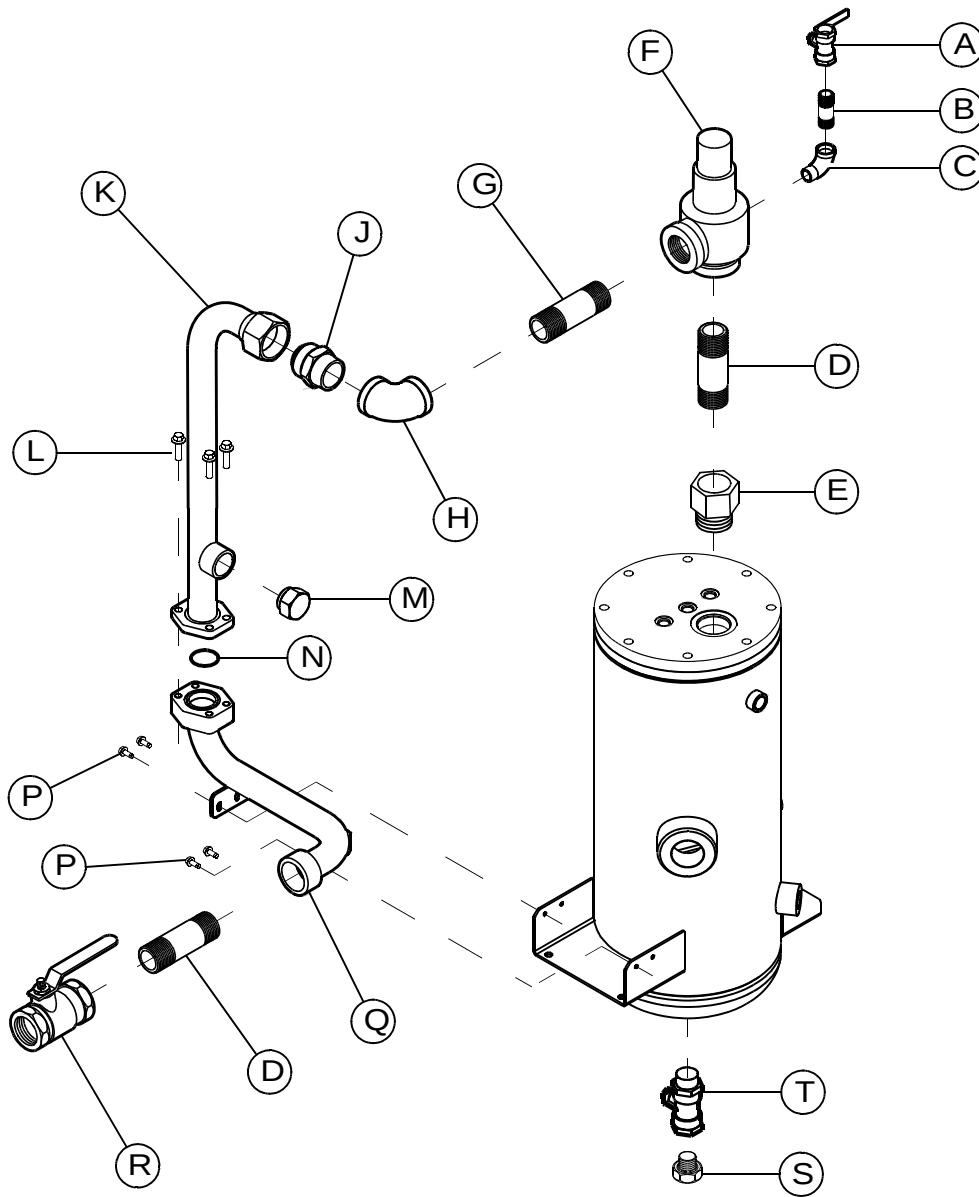
Service Air



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35581792	Valve, Ball 1/2" NPT	1	<i>Continued...</i>
B	95934279	Nipple, Close 1/2" NPT X 1.12"	1	
C	95928164	Elbow, 90° Street 1/2" NPT	1	
D	95097291	Nipple, Pipe 2.0 X 2.50"	2	
E	95944641	Adapter, 2.5-12 X 2.0" NPTF	1	
F	22217848	Valve, Minimum Pressure	1	
G	95285615	Nipple, Pipe 2.0 X 5.5"	1	
H	95946281	Elbow, 90° X 2.0" NPT	1	
J	35335124	Connector, Male -32 JIC X 2.0" NPT	1	

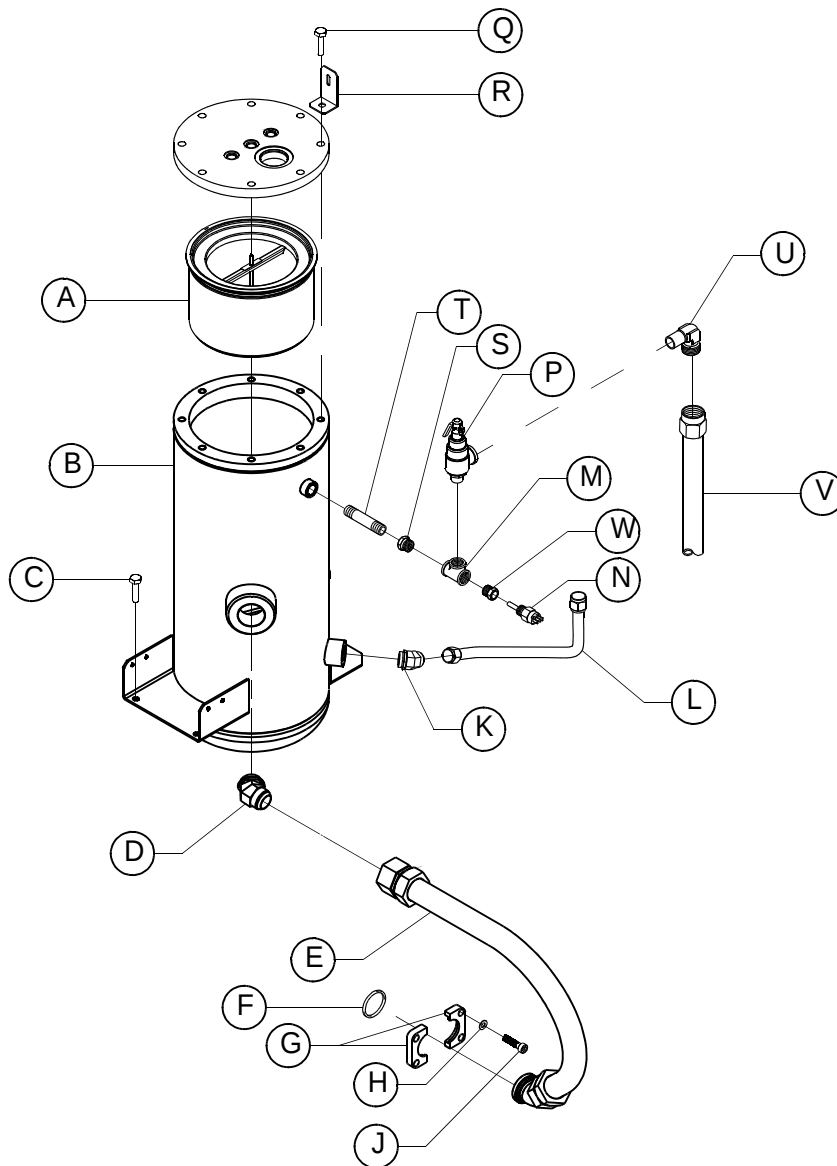
Service Air



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
K	22055719	Tube, Service	1	...Continued
L	36877793	Screw, Hex Flange M12-1.75 X 40	4	
M	95941639	Plug, Square Head 1.5" NPT	1	
N	95357976	O-Ring	1	
P	35279025	Screw, Tapping M08-1.25 X 20	4	
Q	22055727	Tube, Bottom Service	1	
R	35602473	Valve, Ball 2" NPT	1	
S	95280541	Plug, Hex Socket 1.06-12	1	
T	36795680	Valve, 3/4" Ball	1	

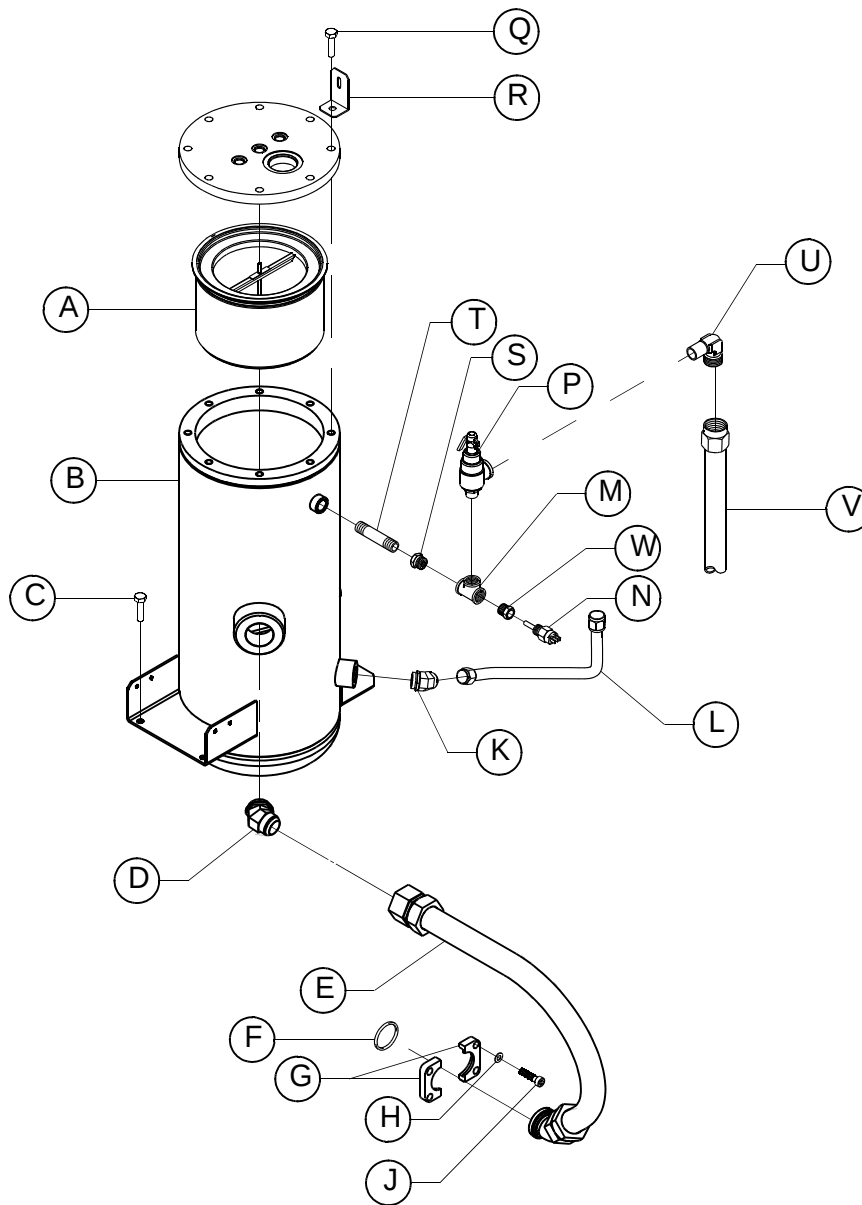
Separator Tank Piping



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22111975	Element, Separator	1	<i>Continued...</i>
B	22950406	Tank, Separator	1	
C	36888055	Screw, Hex Flange M12-1.75 X 30	4	
D	95944732	Elbow, 45° 2.50-12 SAE	1	
E	54688015	Hose, Discharge	1	
F	95357976	O-Ring	1	
G	35292143	Flange, Half	2	
H	95934683	Washer, Lock	4	
J	96719810	Screw, Hex M14-2.0 X 40	4	
K	95992632	Elbow, 45° X 1.31-21 SAE	1	
L	35227909	Hose, -16 X 25"	1	
M	95954228	Tee, 1.0" NPT	1	

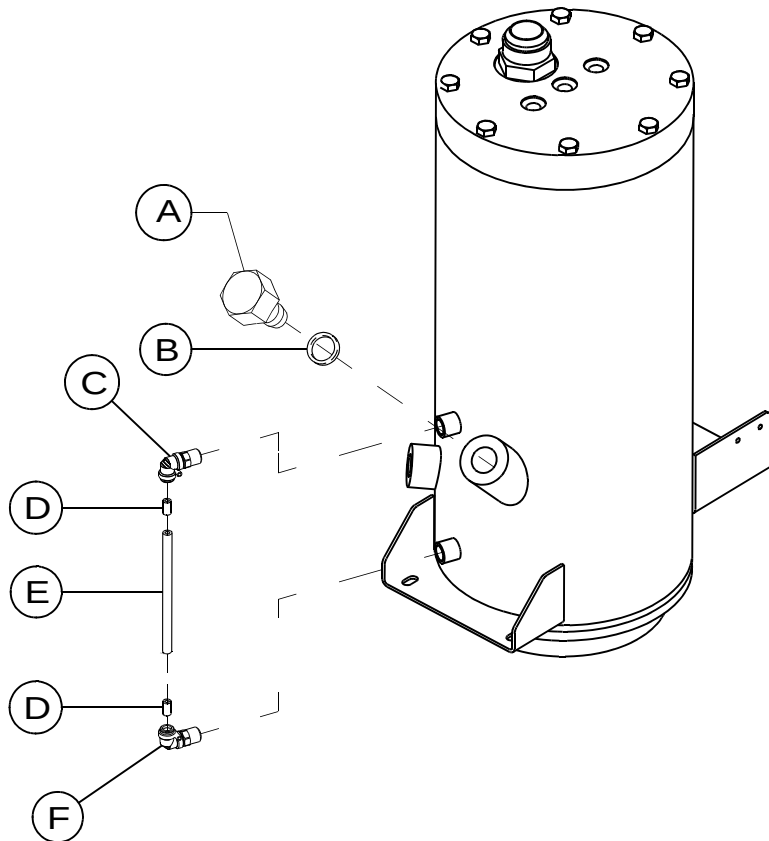
Separator Tank Piping



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
N	36898922	Switch, Alarm	1	Continued P600, 7/170 HP450, 10/125 VHP400, 14/115
P	22216360	Valve, Safety 150 PSI	1	
	54731443	Valve, Safety 200 PSI	1	
	54731450	Valve, Safety 250 PSI	1	
Q	96757557	Screw, Hex Flange M16-2.0 X 60	8	
R	36785012	Bracket, Separator Tank Lift	2	
S	95944617	Bushing, Reducing 1.0" X 3/4" NPT	1	
T	95928040	Nipple, Closed 3/4" NPT X 1.38"	1	
U	95286548	Elbow, 90° 1.25" NPT X -16 JIC	1	
V	22226906	Tube, Safety Valve	1	
W	95932802	Bushing, Reducing 1.0" X 3/8" NPT	1	

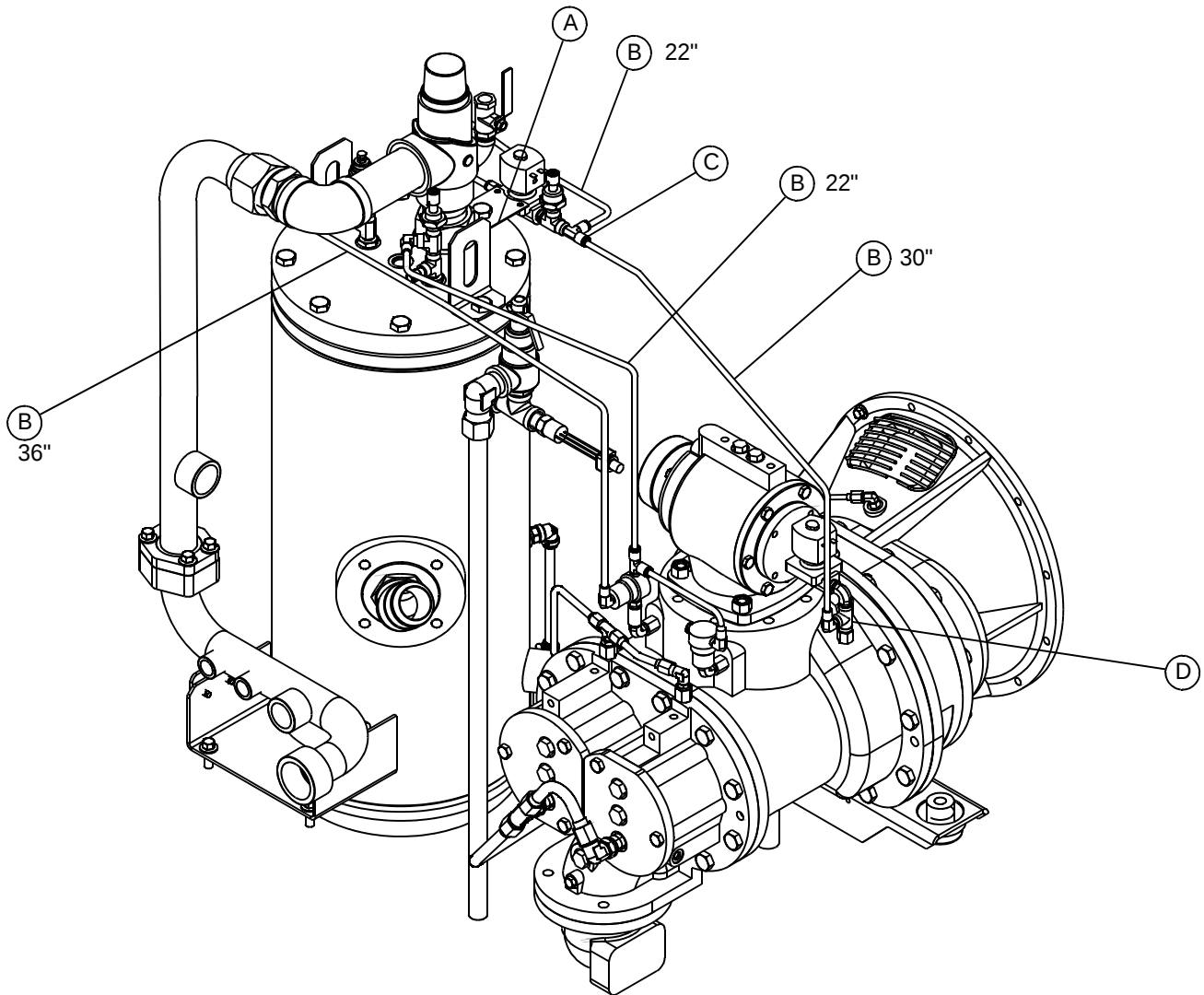
Separator Tank Oil Fill



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35579630	Plug, Hex 1.62-12"	1	
B	35279942	O-Ring	1	
C	22685481	Elbow, Top Compression	1	
D	22685507	Insert, 1/4" Tube	2	
E	22685523	Tube, Sight	1	
F	22685499	Elbow, Bottom Compression	1	

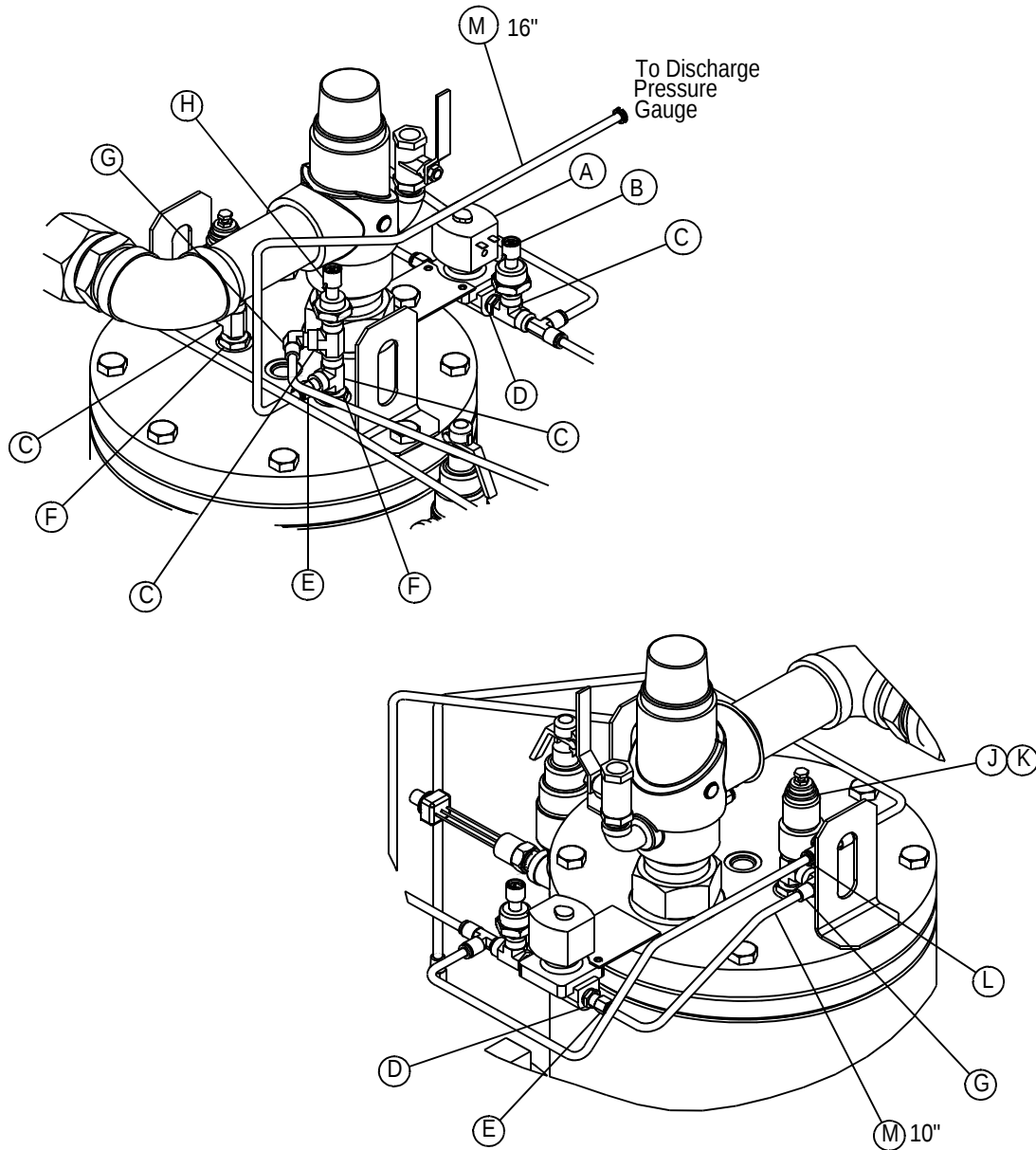
Air Piping



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36892669	Bracket, Start / Run Valve	1	See Lengths Above
B	35356484	Tubing, 3/8" OD Synflex	~	
C	35369503	Tee, Male Run 1/4" NPT X 3/8 Tube	1	
D	95954194	Tee, Female 1/4" NPT	1	

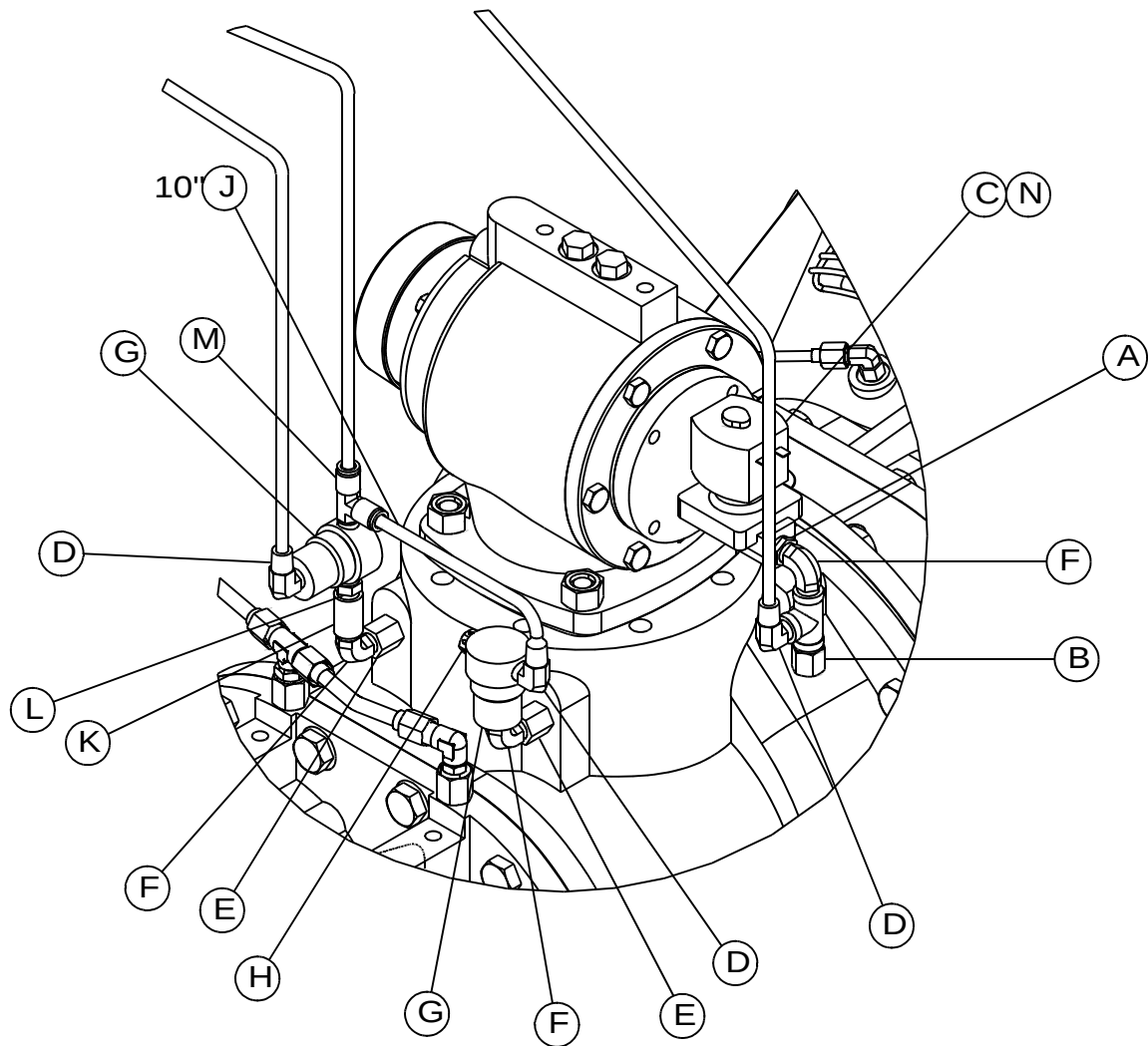
Air Piping Separator Tank



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36840841	Valve, Solenoid 24 V 0-100 PSI	1	See Lengths Above
B	36920825	Transducer, 0-100 PSI	1	
C	35114545	Tee, Street 1/4" NPT	4	
D	95940748	Bushing, Reducing 3/8" NPT X 1/4" NPT	2	
E	35369347	Connector, Male 1/4" NPTF X 3/8" Tube	2	
F	95773032	Adapter, 90° Female 7/8-14 X 1/4" NPT	2	
G	35369354	Elbow, Male 1/4" NPT X 3/8" Tube	2	
H	54765946	Transducer, 0-500 PSI	1	
J	36896892	Regulator, Pressure 200 PSI	1	
K	95944575	Nipple, Closed 1/4" NPT X 7/8"	1	
L	35373976	Tee, Male Run 1/4" NPT X 3/8" Tube	1	
M	35356484	Tubing, 3/8" OD Synflex	~	

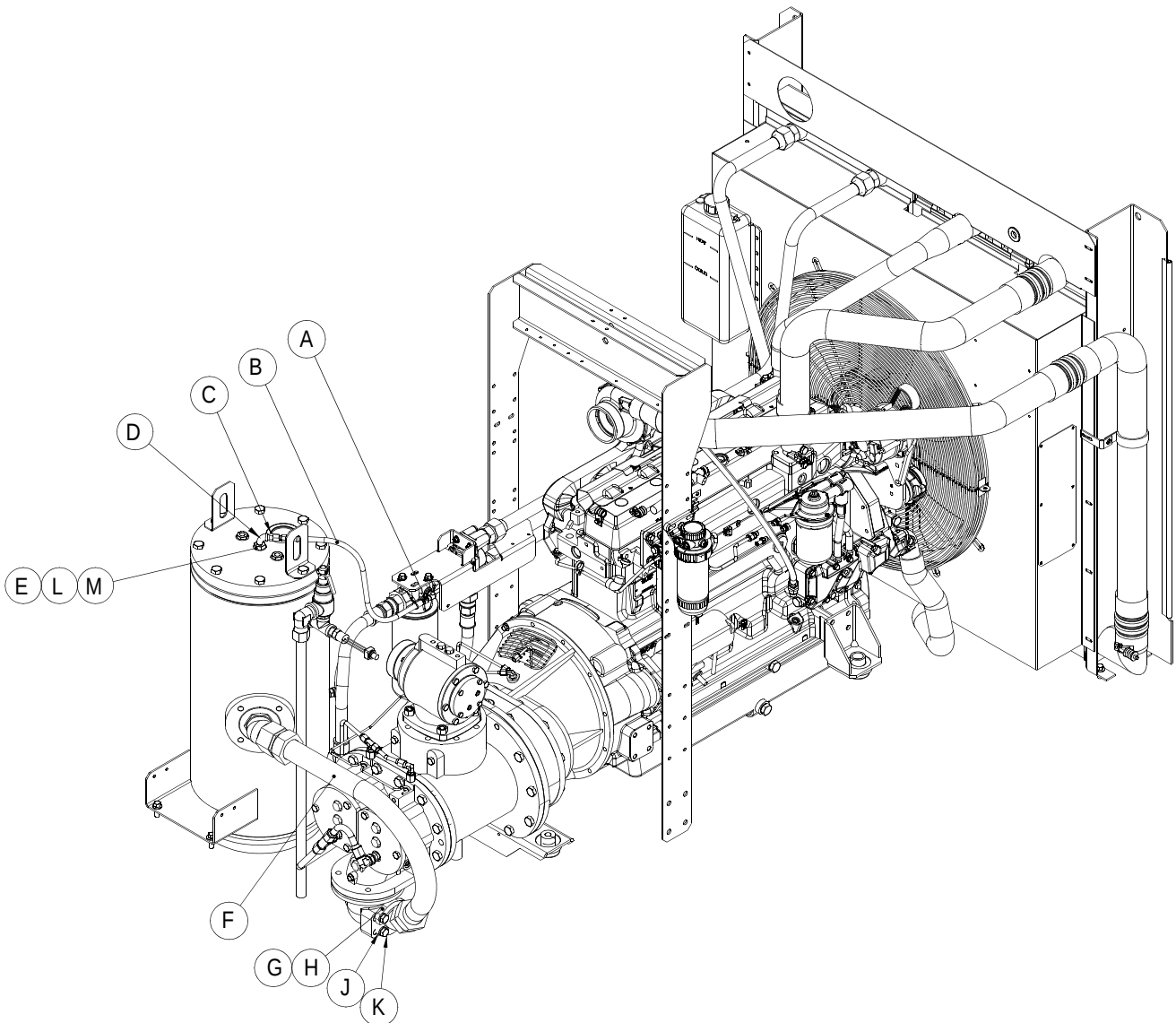
Air Piping Air End



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	95940748	Bushing, Reducing 3/8" NPT X 1/4" NPT	1	See Lengths Above
B	35322346	Orifice, .156	1	
C	95092318	Nipple, 3/8" NPT X 1.0"	1	
D	35369354	Elbow, Male 1/4" NPT X 3/8" Tube	3	
E	35302314	Adapter, 9/16-18 X 1/4" NPT	2	
F	95364469	Elbow, 90° 1/4" NPT X 1/4" NPT	3	
G	35322379	Valve, Blowdown	2	
	35379064	Kit, Diaphragm Repair	AR	
H	36766756	Orifice, Muffler .140	1	
J	35356484	Tubing, 3/8" OD Synflex	~	
K	95952990	Coupling, 1/4" NPT X 1.12"	1	
L	35248145	Valve, 1/4" Check	1	
M	35373976	Tee, Male Run 1/4" NPT X 3/8" Tube	1	
N	36840841	Valve, Solenoid 24 V 0-100 PSI	1	

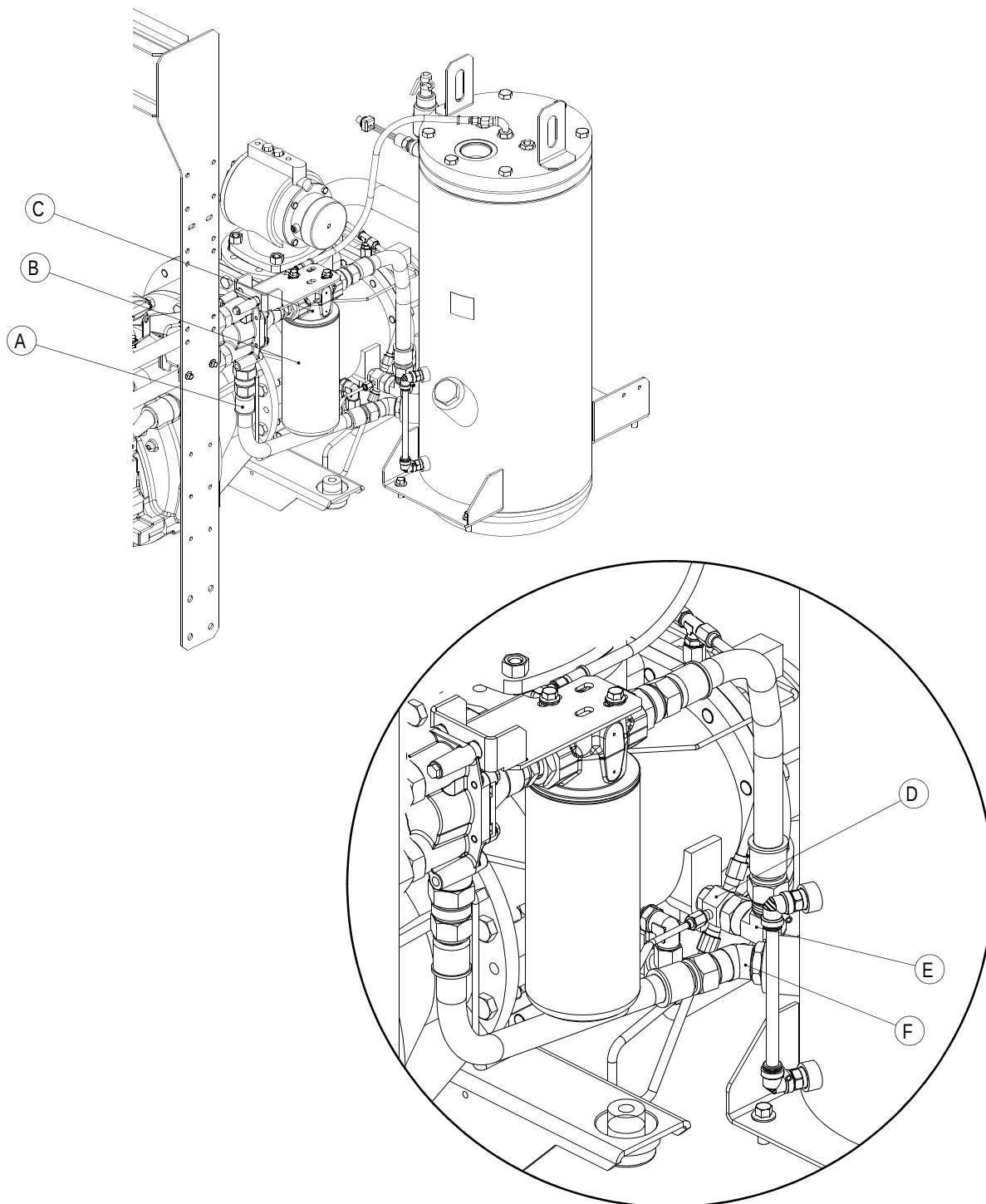
Oil Piping Street Side



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	95365094	Elbow, 90° 9/16"-18 X -4 JIC	1	
B	35282920	Hose, -4JIC X 30"	1	
C	36840411	Valve, Check	1	
D	95944666	Elbow, Street 90° 1/4" NPT	1	
E	54721337	Adapter, Oil Scavenge		
F	54688015	Hose, Discharge	1	
G	95357976	O-Ring	1	
H	35292143	Flange, Half	2	
J	95934683	Washer, Lock	4	
K	96719810	Screw, Hex M14-2.0 X 40	4	
L	92877620	O-Ring	1	
M	95973228	O-Ring	1	

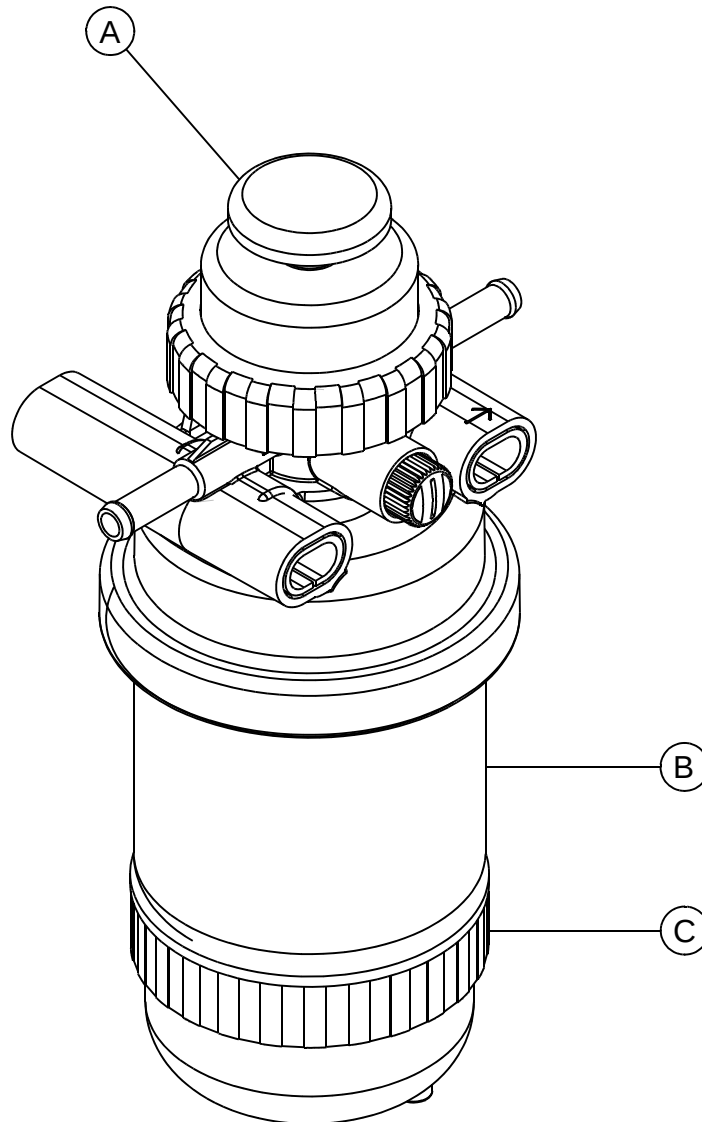
Oil Piping Curb Side



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35227909	Hose, -16 X 25"	1	
B	36897346	Element, Oil Filter	1	
C	36897437	Head, Oil Filter	1	
D	35292051	Elbow, 90° Swivel Nut -16	1	
E	36845154	Manifold, Oil	1	
F	95992632	Elbow, 45° X 1.31"-21 SAE	1	

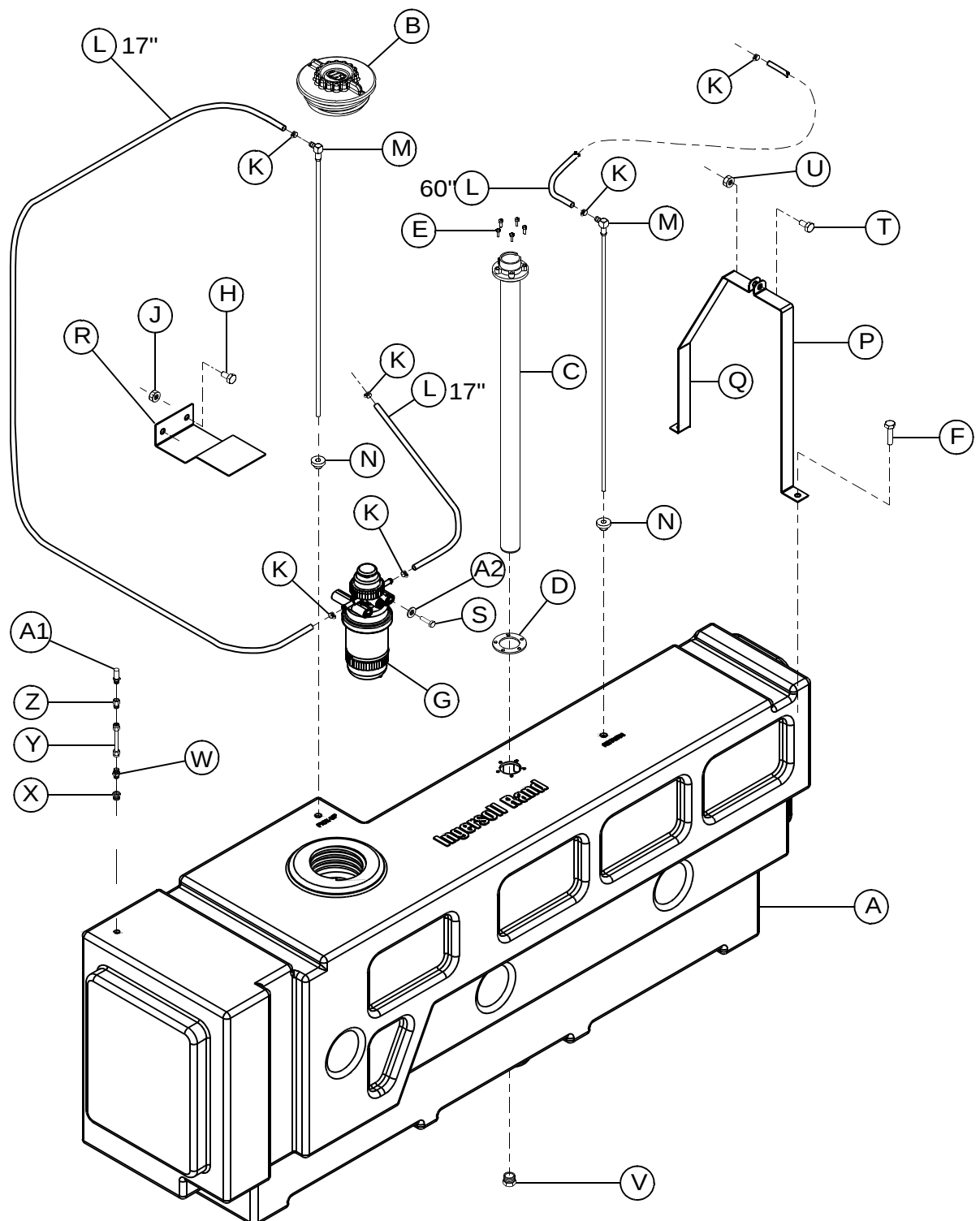
Fuel / Water Separator



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22532394	Kit, Primer Pump	1	
B	22926737	Element, Fuel / Water Separator Filter	1	
C	22532386	Bowl, Fuel / Water Separator Filter	1	

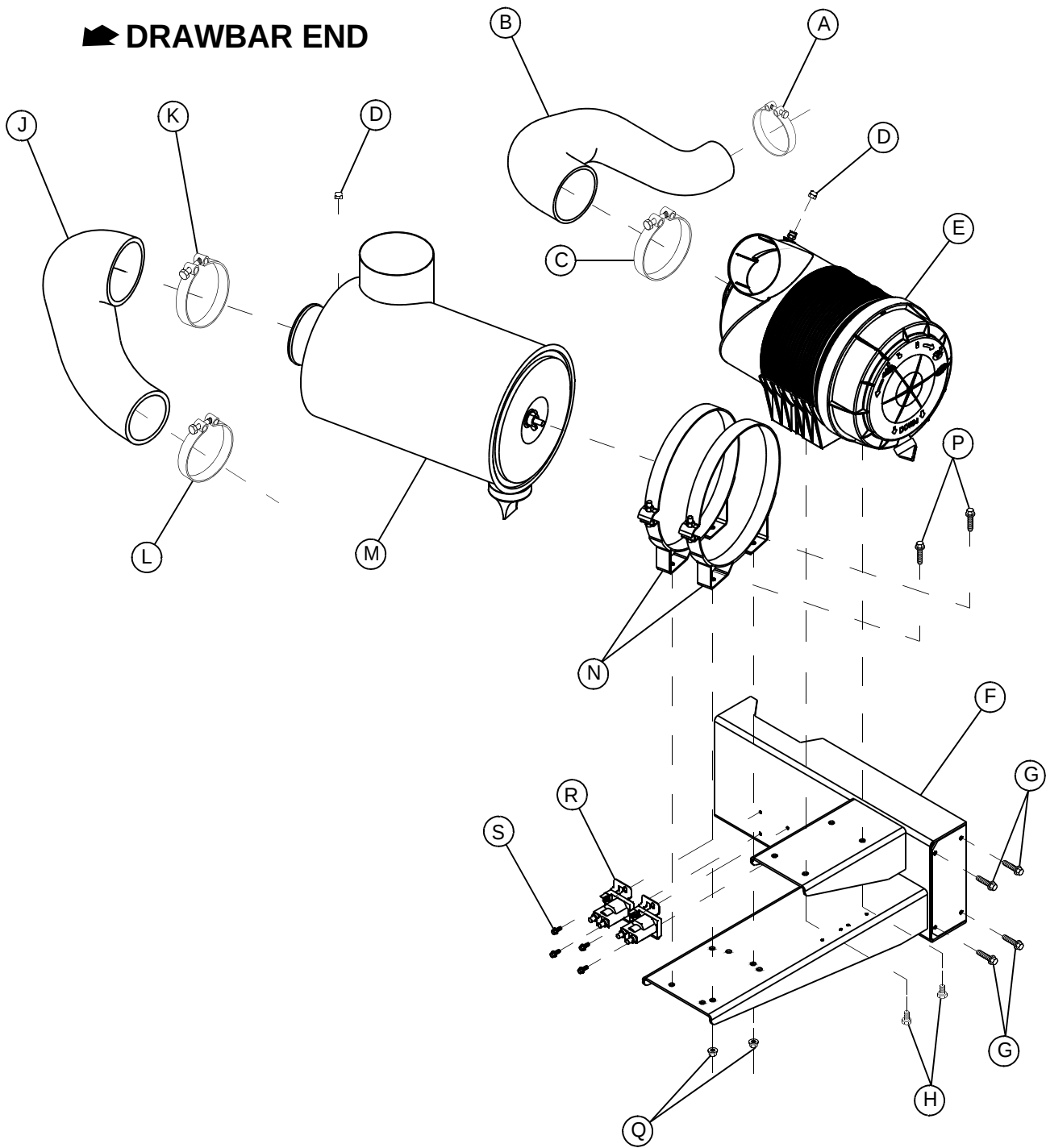
Fuel Tank



23209265_01/08_A

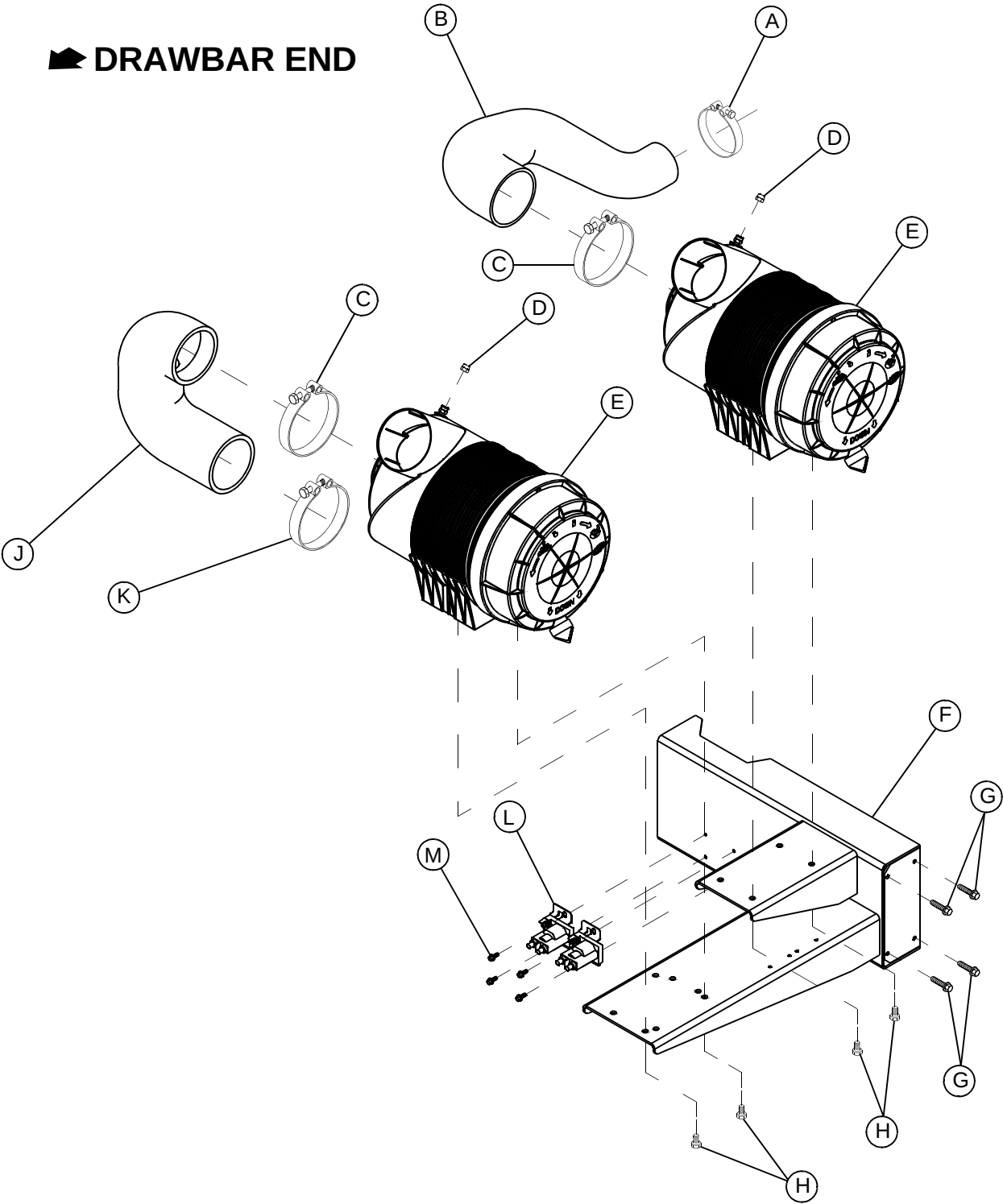
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54774260	Tank, Fuel	1	
B	54660089	Cap, Fuel Tank	1	
C	54731427	Sender, Fuel Level	1	
D	35361849	Gasket, Fuel Sender	1	
E	95946532	Screw, Fillister Head #10-32 X 1/2"	5	
F	35279025	Screw, Tapping M08-1.25 X 20	2	
G	22926745	Separator, Fuel / Water	1	
H	36889608	Screw, Hex Flange M08-1.25 X 25	2	
J	36881886	Nut, Hex Flange M08-1.25	2	
K	35296342	Clamp, Worm Gear	6	
L	35363498	Hose, .5/16" Fuel	~	See Lengths Above
M	54675863	Standpipe Assembly	2	Included w/ Item L
N	35384577	Bushing, Nitrile	2	Included w/ Item L
P	22221022	Strap, Fuel Tank	1	
Q	22221030	Strap, Fuel Tank	1	
R	22260038	Strap, Fuel Tank	1	
S	96726345	Screw, Hex M08-1.25 X 25	2	
T	96701917	Screw, Hex M10-1.5 X 30	1	
U	35273366	Nut, Hex Nyloc M10-1.50	1	
V	95280541	Plug, Hex Socket 1.06-12	1	
W	35369347	Connector, Male 1/4" NPTF X 3/8" Tube	1	
X	95940748	Bushing, Reducing 3/8" NPT X 1/4" NPT	1	
Y	35356484	Tubing, 3/8" OD Synflex	~	See Lengths Above
Z	35369339	Connector, Female 1/4" NPTF X 3/8" Tube	1	
A1	35322395	Silencer, Pneumatic 1/4" NPT	1	
A2	95935037	Washer, Flat	2	

Air Intake Filter Mount (P600 & 7/170)



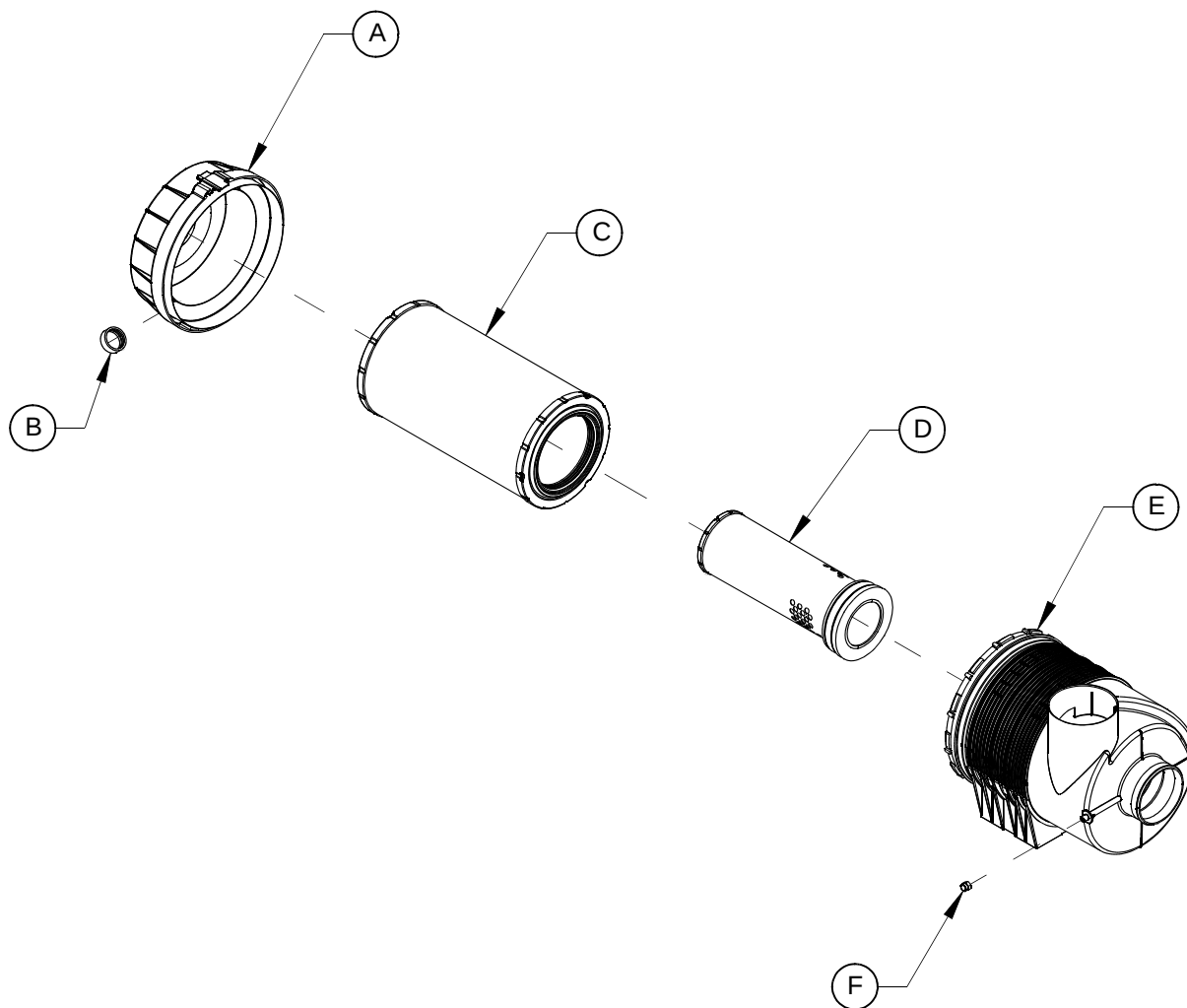
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35374073	Clamp, T-Bolt 3.62"	1	
B	22891675	Hose, Engine Air Intake	1	
C	36897668	Clamp, T-Bolt 4.75"	1	
D	35314939	Indicator, Restriction	2	
E	54661889	Air Cleaner Assembly	1	
F	22892608	Support, Air Cleaner	1	
G	35279025	Screw, Tapping M08-1.25 X 20	8	
H	96702816	Screw, Hex M08-1.25 X 16	4	
J	22893622	Hose, A/E Air Intake	1	
K	35116615	Clamp, Band 6.0"	1	
L	35365477	Clamp, T-Bolt 4.75"	1	
M	22119192	Air Cleaner Assembly	1	
N	35274711	Band, Air Cleaner	2	
P	96702279	Screw, Hex M10-1.50 X 20	4	
Q	36879195	Nut, Hex Flange M10-1.5	4	
R	36853521	Relay	2	
S	36797652	Screw, Tapping M06-1.0 X 12	4	

Air Intake Filter Mount (HP450, 10/125, VHP400 & 14/115)



ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	35374073	Clamp, T-Bolt 3.62"	1	
B	22891675	Hose, Engine Air Intake	1	
C	36897668	Clamp, T-Bolt 4.75"	1	
D	35314939	Indicator, Restriction	2	
E	54661889	Air Cleaner Assembly	1	
F	22892608	Support, Air Cleaner	1	
G	35279025	Screw, Tapping M08-1.25 X 20	8	
H	96702816	Screw, Hex M08-1.25 X 16	8	
J	22939482	Hose, A/E Air Intake	1	
K	35161025	Clamp, T-Bolt 5.50"	1	
L	36853521	Relay	2	
M	36797652	Screw, Tapping M06-1.0 X 12	4	

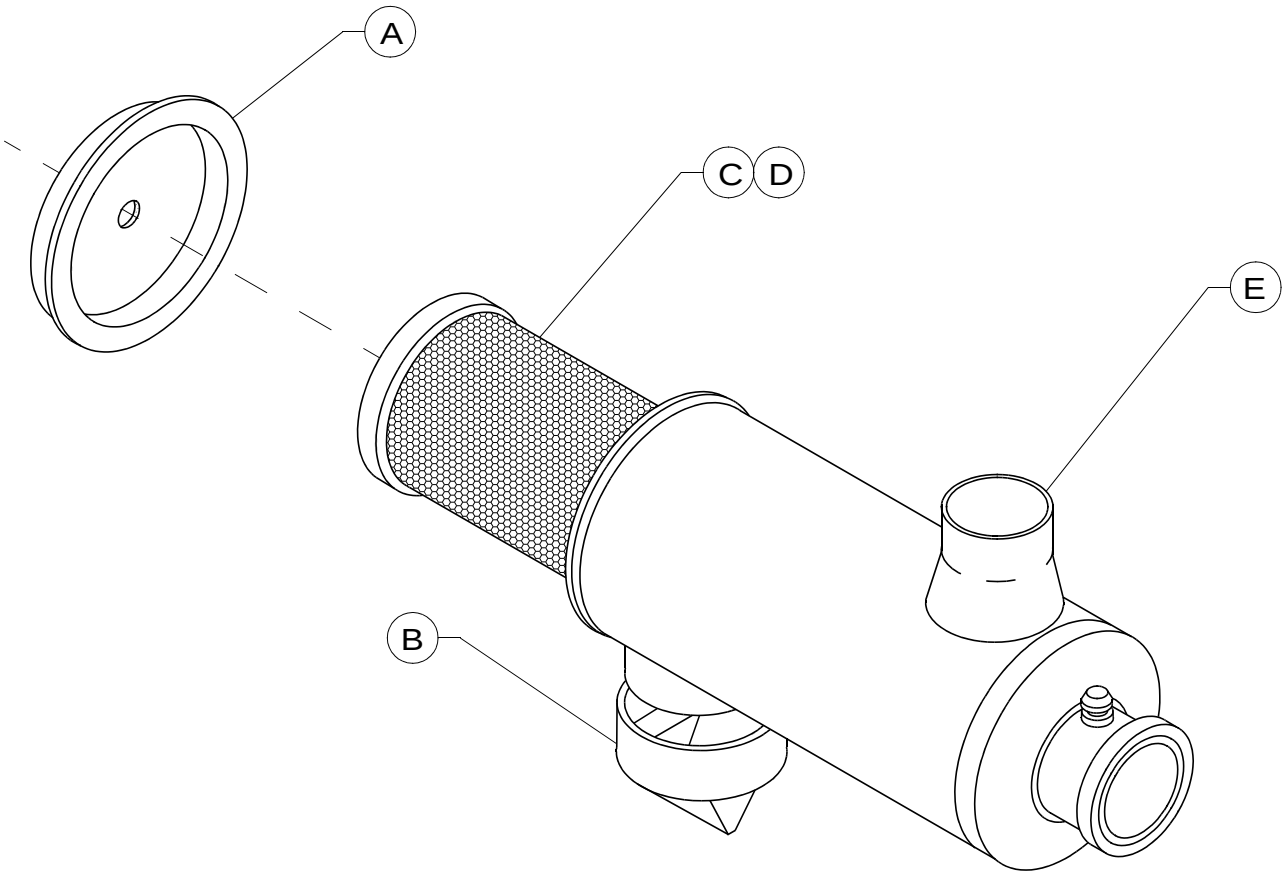
Air Cleaner



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54692975	Cover, Air Cleaner	1	
B	35393677	Valve, Dust ejector	1	
C	54717145	Element, Primary	1	
D	54717152	Element, Safety	1	
E	54692967	Body, Air Cleaner	1	
F	35393719	Cap, Plug	1	

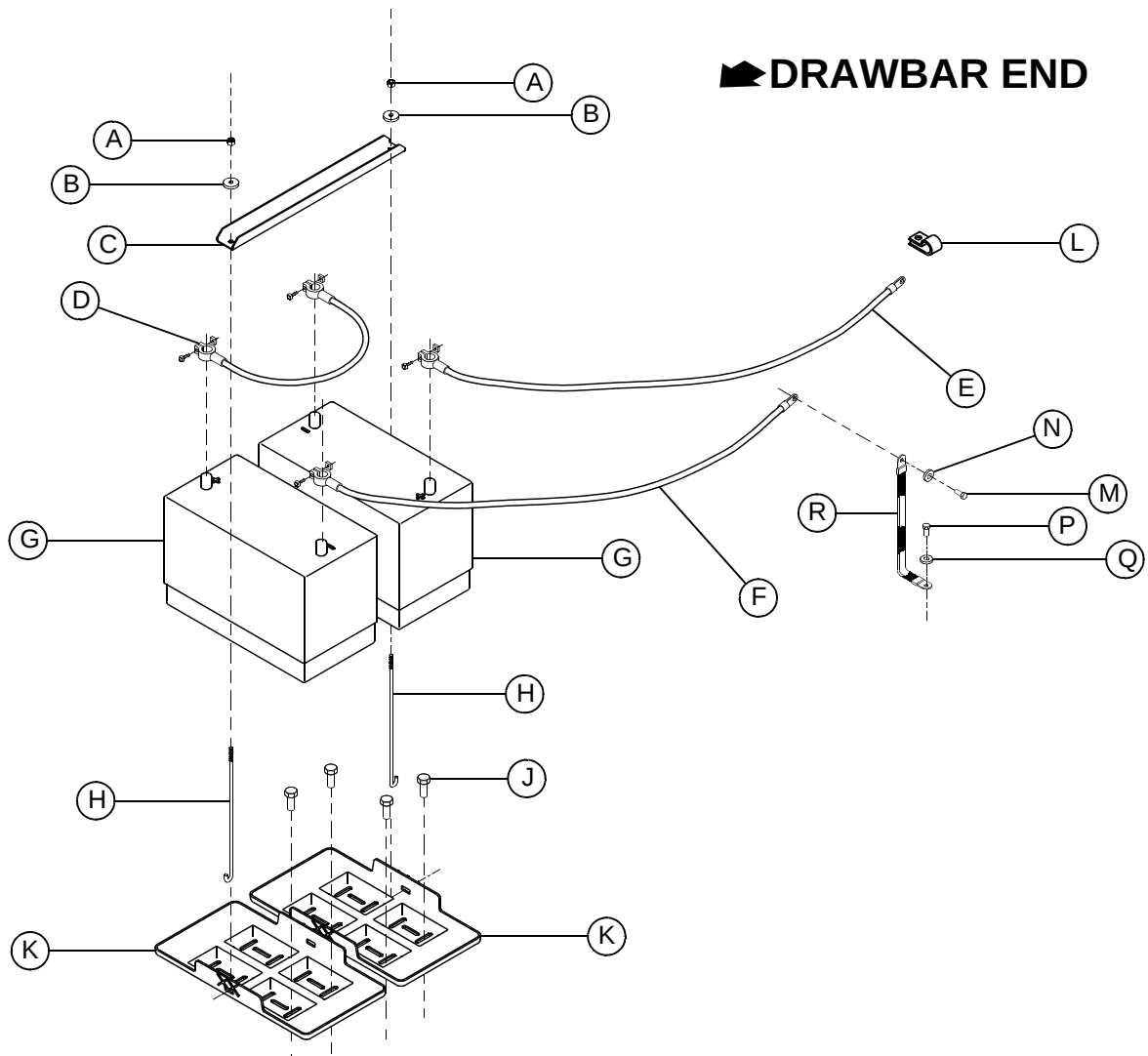
Air Cleaner P600 & 7/170 Air End



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22119184	Cover, Air Cleaner	1	
B	36867778	Valve, Dust ejector	1	
C	22119168	Element, Primary	1	
D	22119176	Element, Safety	1	
E	22119150	Body, Air Cleaner	1	

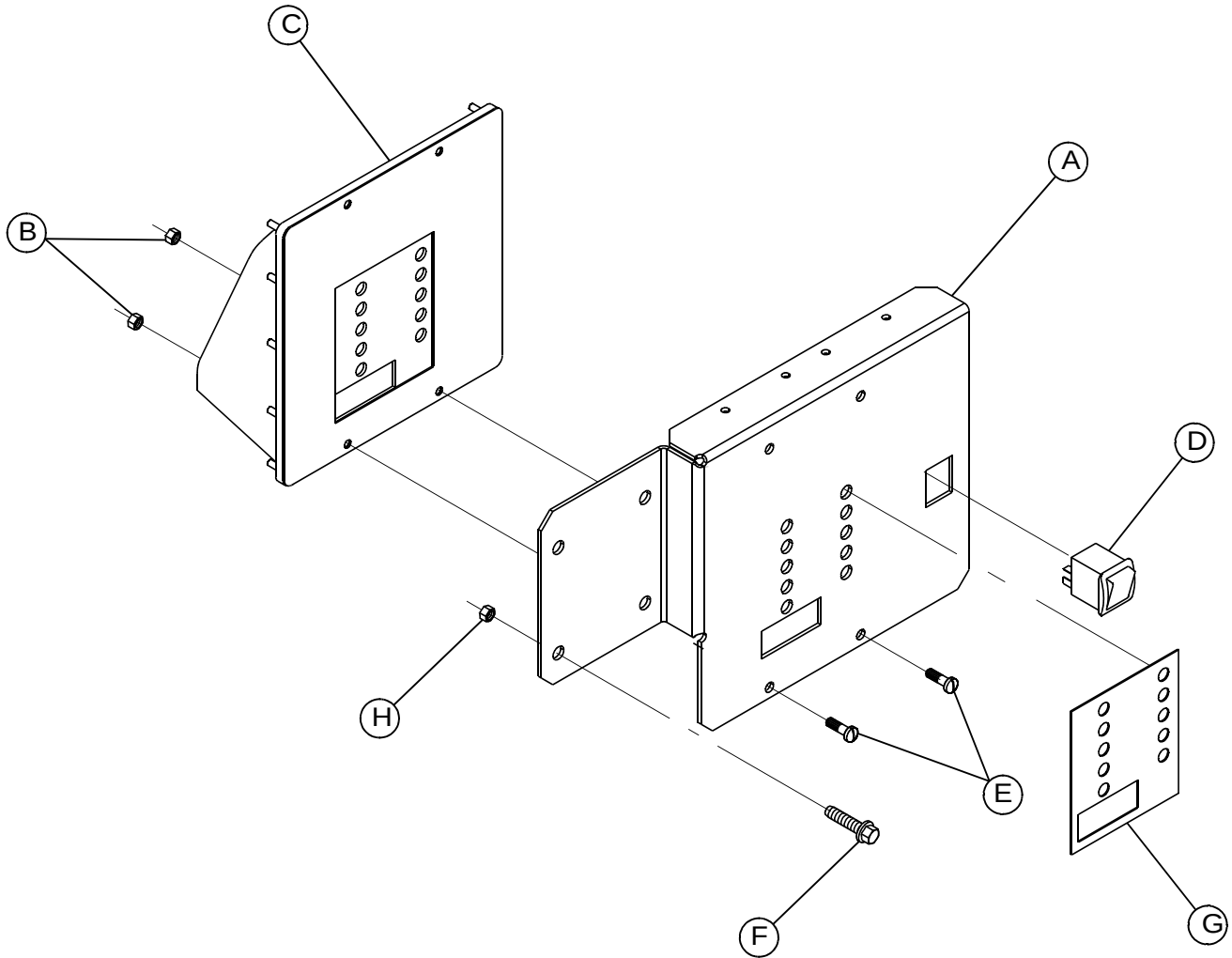
Battery Mount



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	95923298	Nut, Hex Lock 1/4-20	2	
B	36853265	Washer, Plastic 1/4"	2	
C	22128490	Hold Down, Battery	1	
D	35258789	Cable, Jumper	1	
E	35583582	Cable, Positive Battery	1	
F	35610856	Cable, Negative Battery	1	
G	36844975	Battery, 12V	2	
H	36860005	J-Bolt, 1/4-20	2	
J	92368687	Screw, Tapping M06-1.0 X 14	8	
K	36878064	Tray, Battery	2	
L	35225093	Clamp, 1/2" Rubber Support	3	
M	96701495	Screw, Hex M12-1.75 X 25	1	
N	95935003	Washer, Flat 1/2"	1	
P	35134550	Screw, Tapping 3/8-16 X 1"	1	
Q	95934998	Washer, Flat 5/16"	1	
R	36783488	Strap, Ground	1	

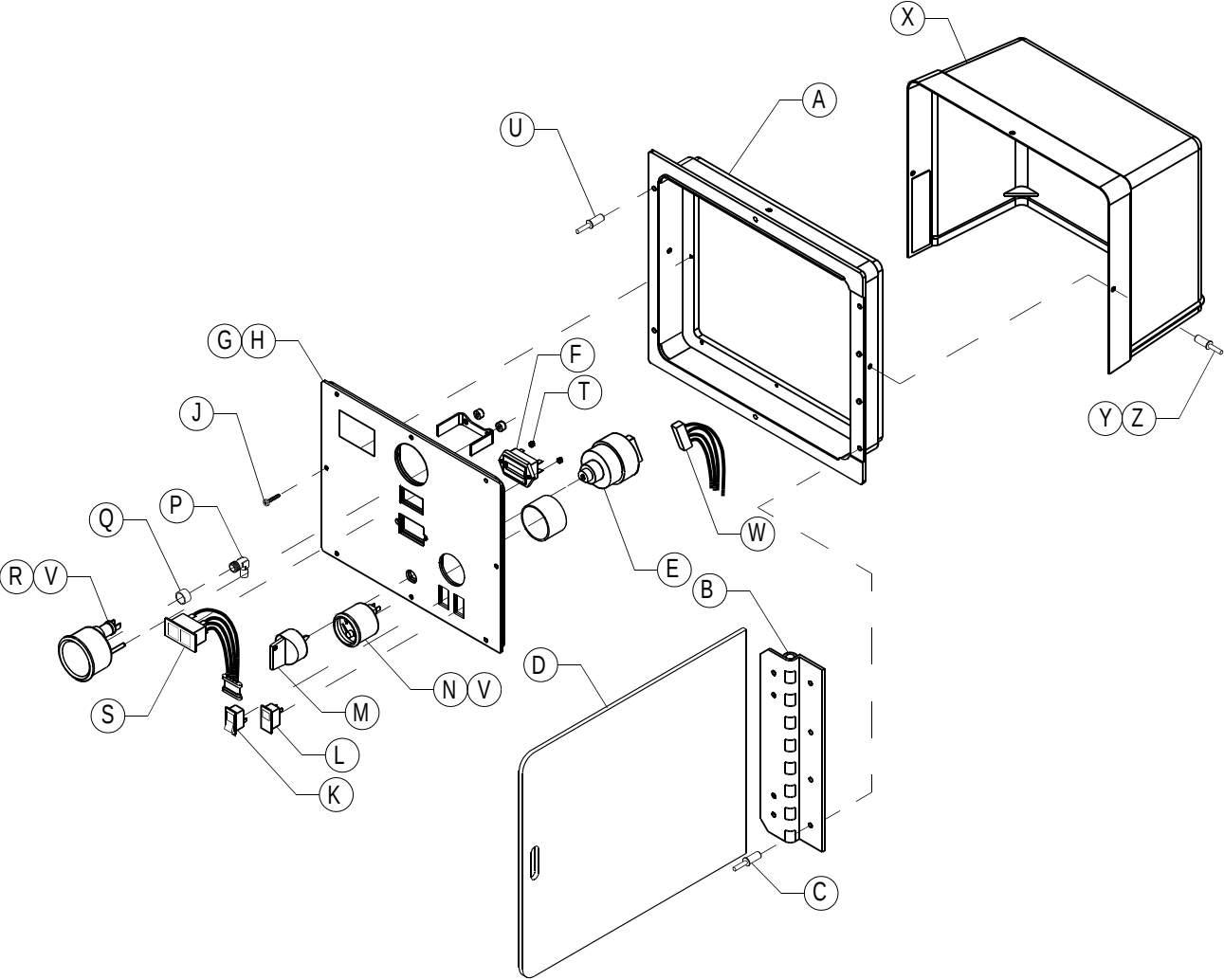
Wedge Controller



23209265_01/08_A

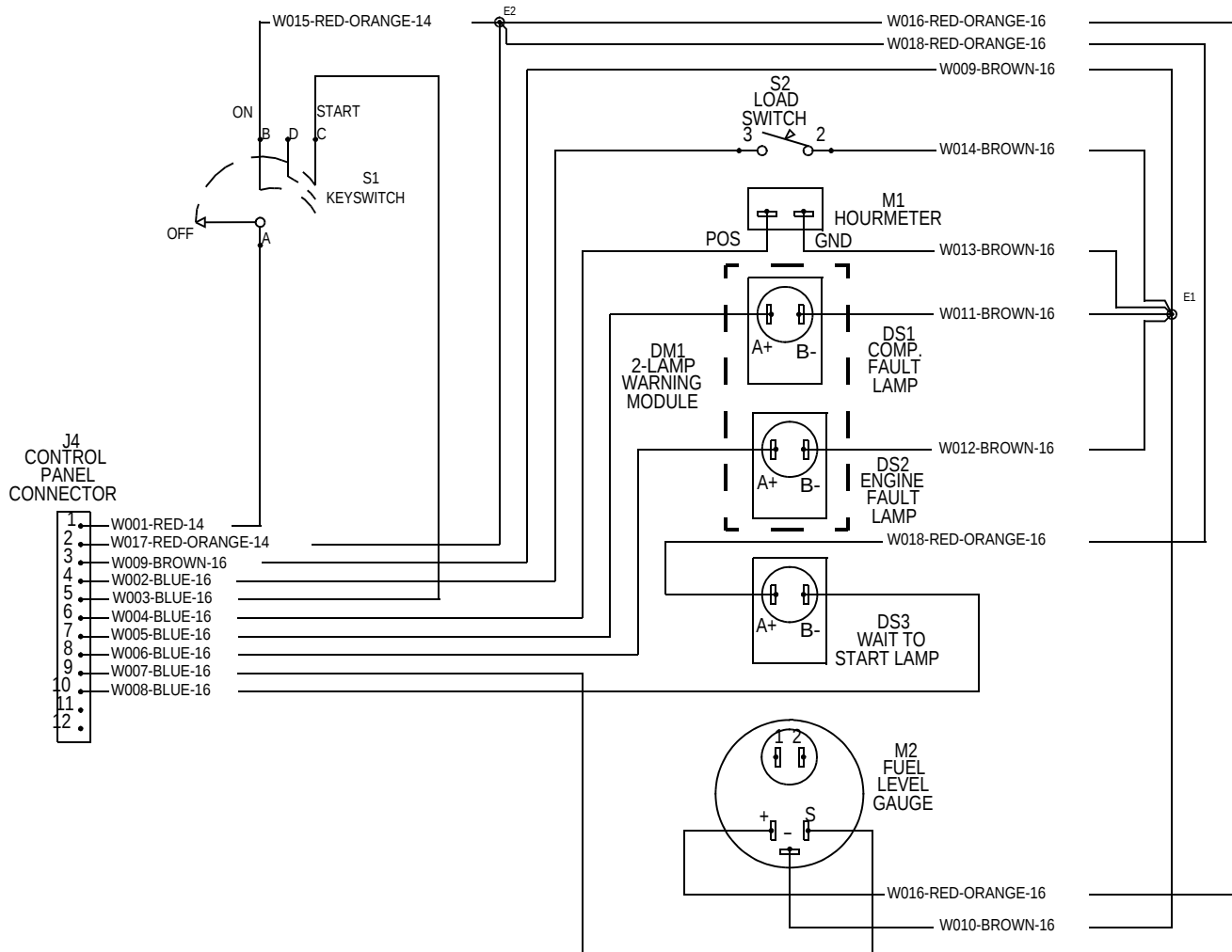
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22197776	Bracket, Wedge Mounting	1	
B	95928800	Nut, Hex Lock #10-32	4	
C	22173579	Wedge Module	1	
D	54475777	Switch, Rocker SP Momentary	1	
E	36842102	Screw, Hex #10-32 x 1"	4	
F	36889608	Screw, Hex M08-1.25 X 25	4	
G	22215354	Decal, Wedge	1	
H	36881886	Nut, Hex Flange M08-1.25	4	

Instrument Panel



ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54749601	Frame, WW Instrument Panel	1	
B	22107478	Hinge, Spring Control Panel	1	
C	36877587	Rivet, .19 Dia.	4	
D	54743265	Door, Control Panel	1	
E	22127385	Switch, Start	1	
F	22054175	Hourmeter	1	
G	22171680	Panel, Instrument	1	
H	22171698	Decal, WW Instrument Panel	1	
J	22070494	Screw, Plastic Tapping	8	
K	22054076	Switch, Rocker SPST Momentary	1	
L	22050553	Light, Warning	1	
M	22134118	Knob, Non-Removable Key	1	
N	22692602	Gauge, Fuel Level	1	
P	35370386	Elbow, 90° Male 1/8" NPT X 1/8" NPT	1	
Q	95935599	Coupling, 1/8" NPT X 3/4"	1	
R	36891216	Gauge, Pressure 250 PSI	1	
S	22172423	Module, 2-Light Warning	1	
T	22054159	Nut, #4-40 Plastic	2	
U	36920486	Rivet, SS .19 Dia.	4	
V	22137426	Lamp, 28V	2	
W	22835680	Harness, Panel Wiring	1	
X	22058325	Cover, Rear Instrument Panel	1	
Y	95972188	Rivet, .19 Dia. Aluminum	3	
Z	95916151	Washer, Flat	3	

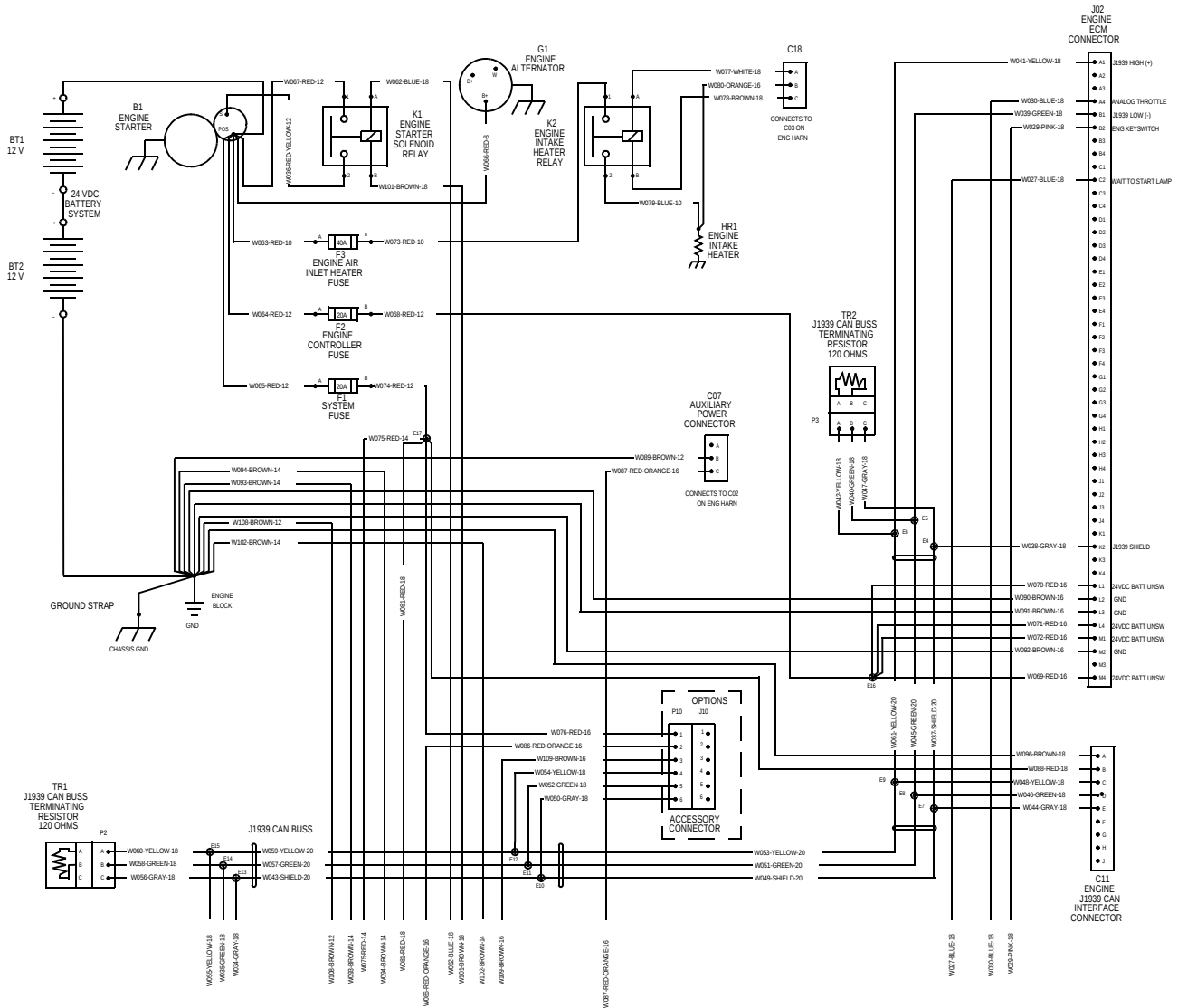
Instrument Panel Schematic



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
DM1	22172423	Module, 2-Light Warning		Wait to Start
DS3	22050553	Light, Warning		
M1	22054175	Hourmeter		
M2	22692602	Gauge, Fuel Level		
S1	22127385	Switch, Start		Load / Unload
S2	22054076	Switch, Rocker SPST Momentary		
W2	22835680	Harness, Instrument Panel		

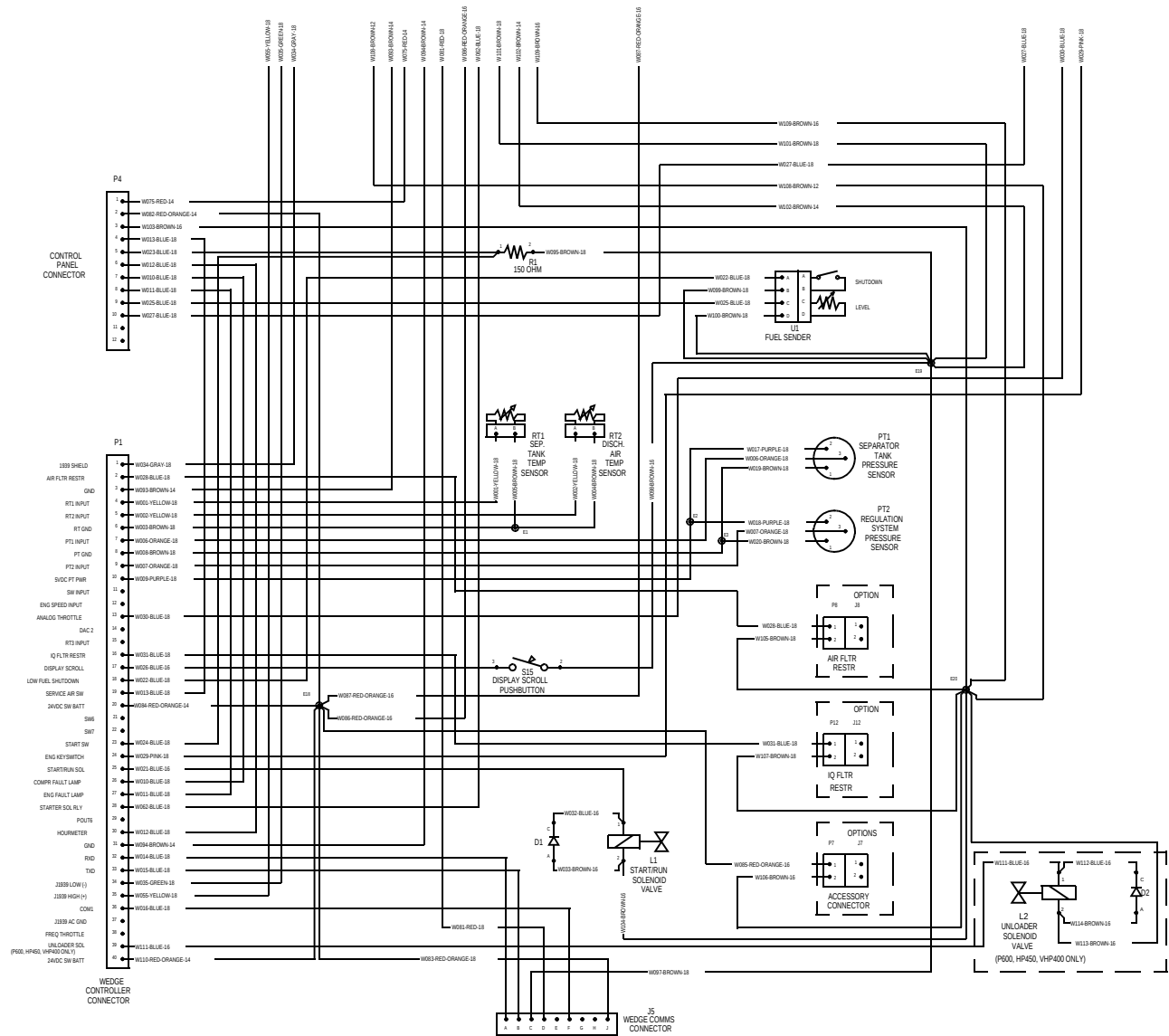
Chassis Wiring Diagram



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
B1	22206213	Starter		Starter Solenoid Intake Heater <i>Continued...</i>
BT1	36844975	Battery, 12V		
BT2	36844975	Battery, 12V		
F1	36792083	Fuse, 20A		
F2	36792083	Fuse, 20A		
F3	22986962	Fuse, 40A		
G1	23229511	Alternator		
HR1	85473999	Heater, Air Intake		
K1	36853521	Relay, Sealed 24V		
K2	36853521	Relay, Sealed 24V		
TR1	54750633	Terminator, Resistor		
TR2	54750633	Terminator, Resistor		

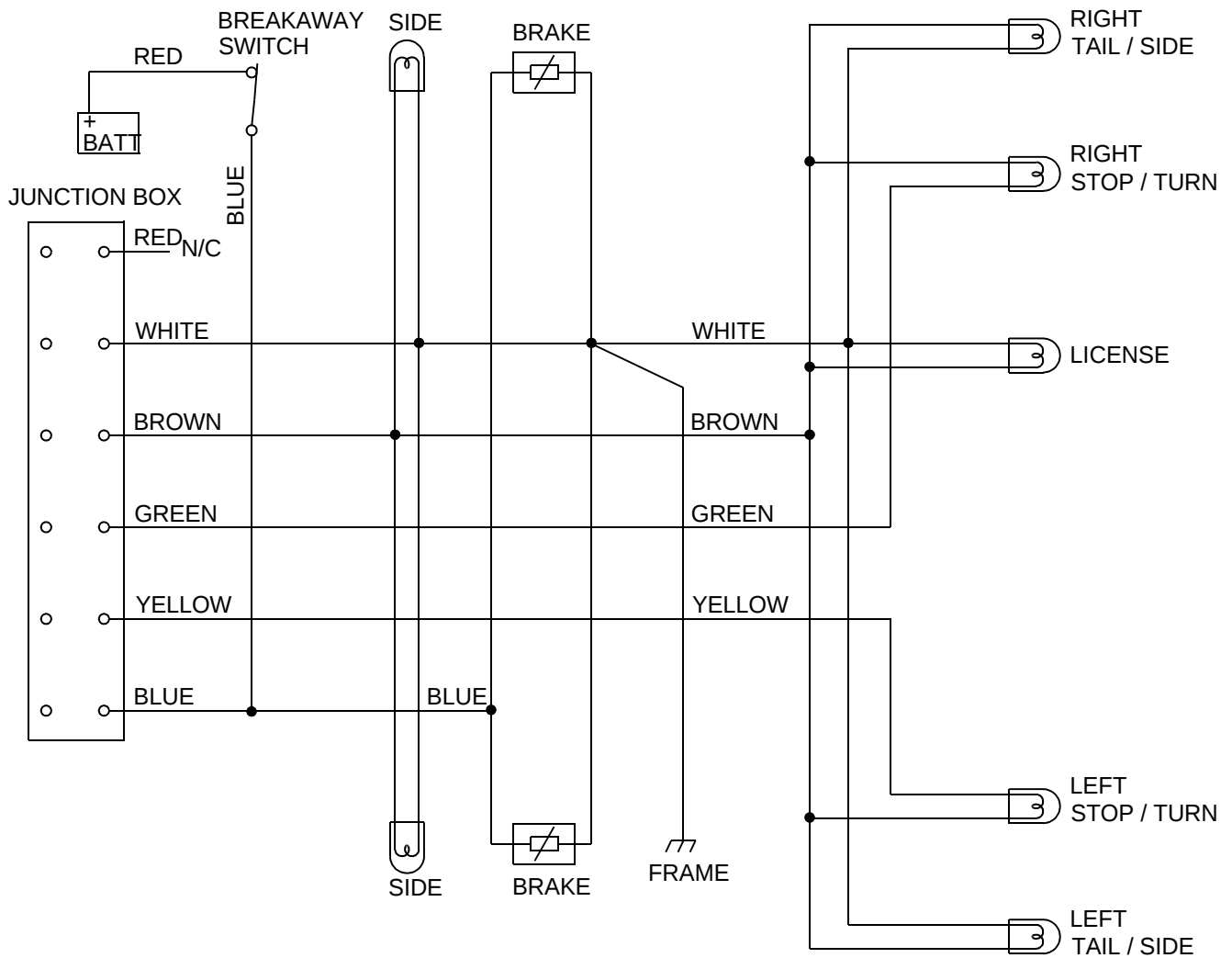
Chassis Wiring Diagram



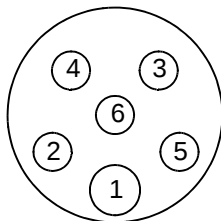
23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	DIMENSIONS/NOTES
D1	35376169	Diode	Continued
L1	36840841	Valve, Solenoid 24 V 0-100 PSI	
L2	36840841	Valve, Solenoid 24 V 0-100 PSI (P600,HP450,VHP400 ONLY)	Start / Run Unloader
PT1	54765946	Transducer, 0-500 PSIG	Separator Tank
PT2	36920825	Transducer, 0-100 PSI	Regulation System
R1	~	Resistor	Separator Tank Discharge Air Scroll
RT1	36898922	Sensor, Temperature	
RT2	36898922	Sensor, Temperature	
S15	54475777	Switch, Rocker SP Momentary	
U1	54731427	Sender, Fuel Level	
W1	22984009	Harness, Chassis	
W2	22214373	Harness, Solenoid	

Tail Light Wiring Diagram



PLUG / SOCKET WIRING CONNECTIONS

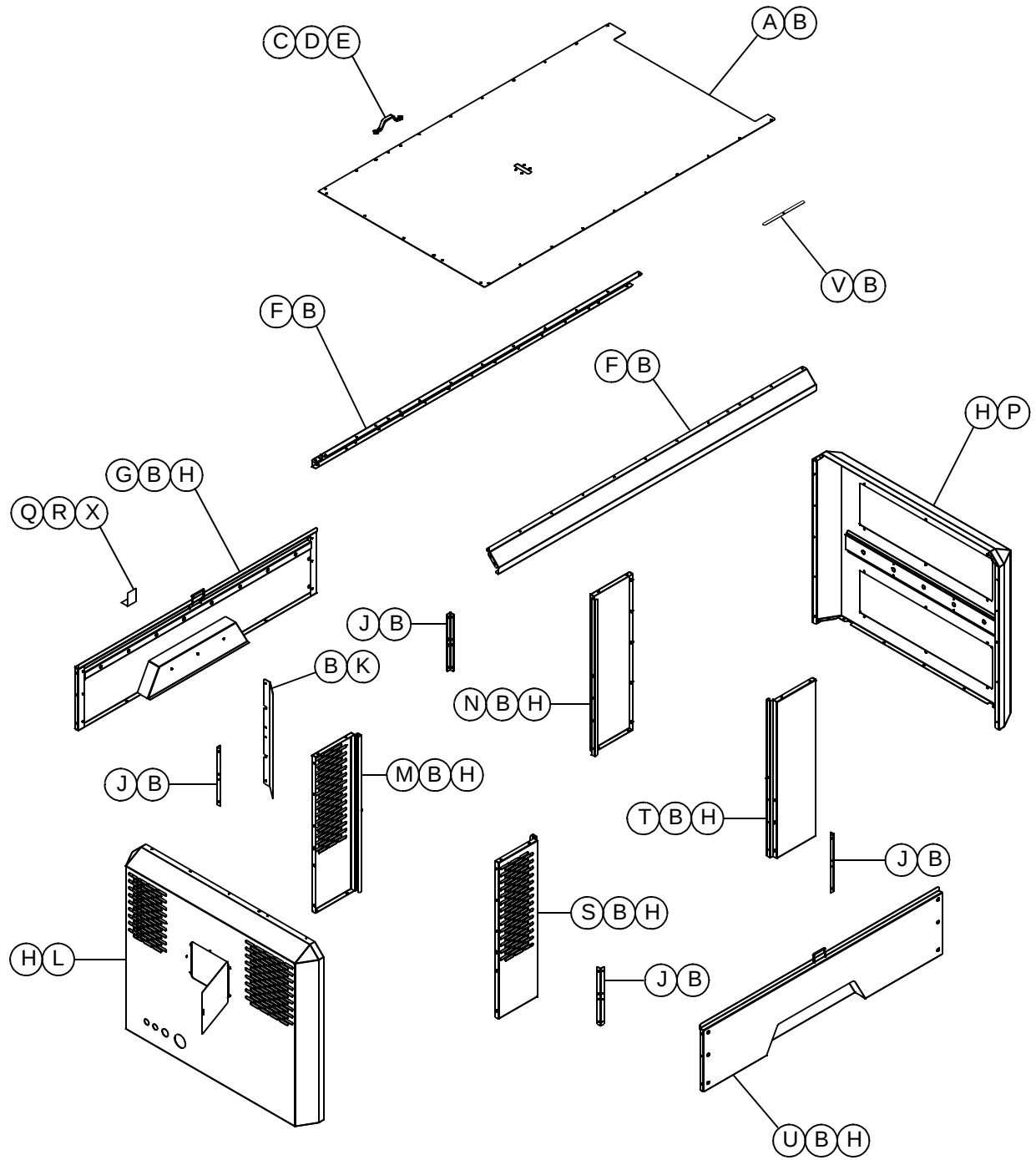


- 1 WHITE - GROUND
2 YELLOW - LEFT STOP/TURN SIGNAL
3
4 GREEN - RIGHT STOP/TURN SIGNAL
5 BROWN - TAIL / CLEARANCE LIGHTS
6 BLUE - ELECTRIC BRAKES

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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
	36844975	Battery	2	
	35315944	Brakeaway Switch	1	
	36895860	License	1	
	35367051	Side	2	
	54671557	Tail / Stop	2	
	54761101	Harness, Light	1	

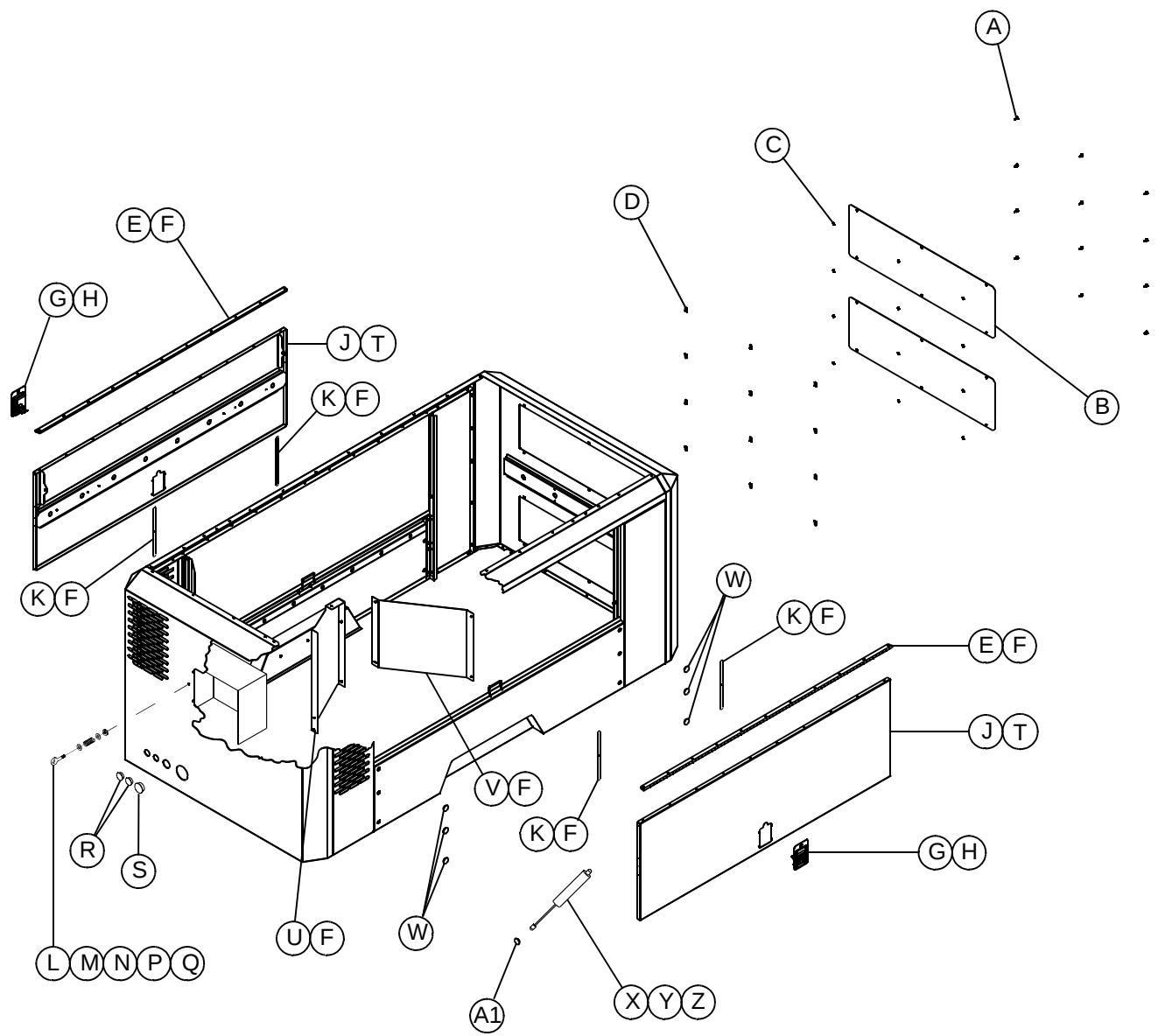
Roof and Side Enclosure



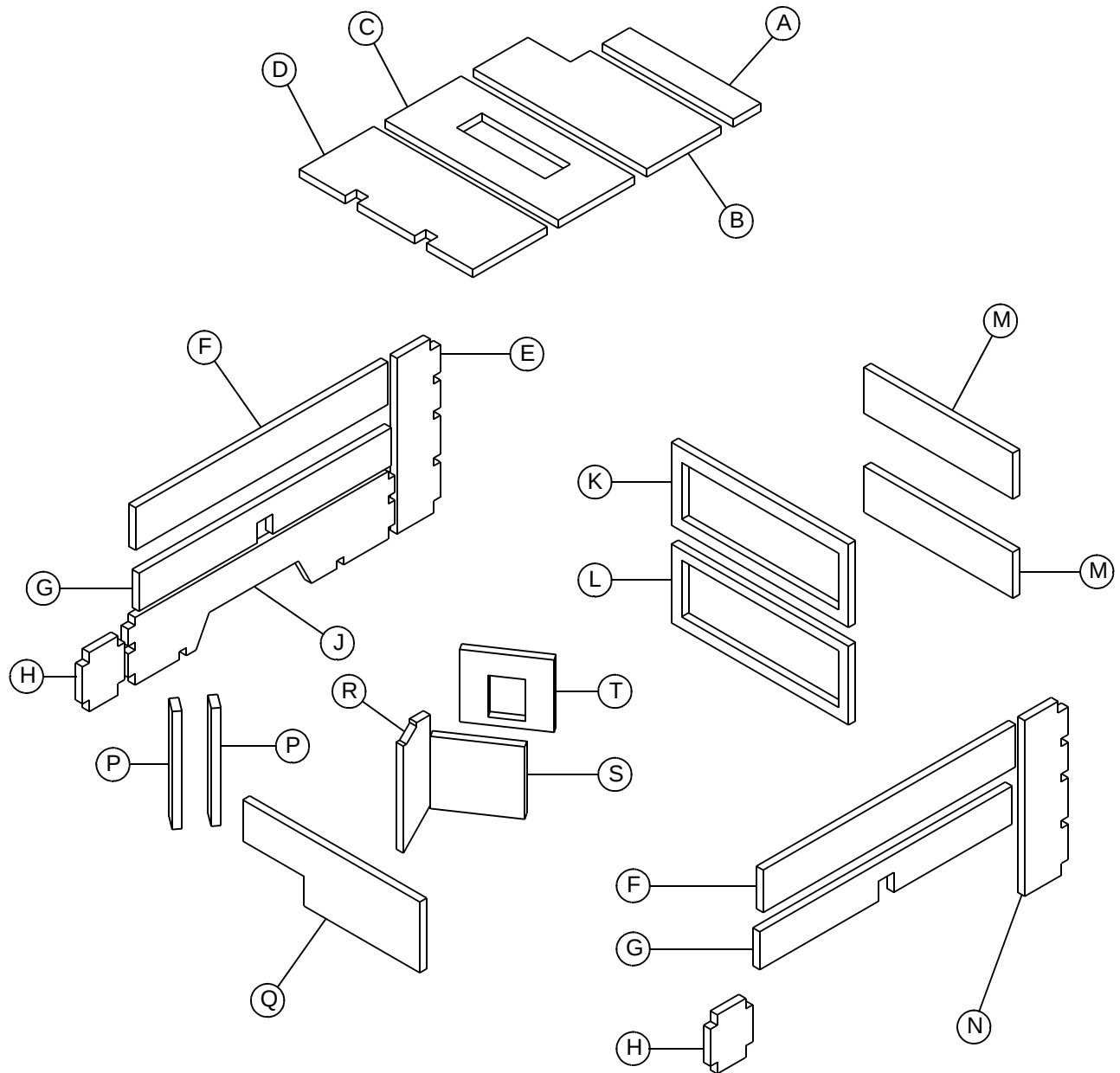
23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22935043	Panel, Roof	1	Standard
	22939656	Panel, Roof	1	Galvanneal
B	36797652	Screw, Tapping M06-1.0 X 12	96	
C	35130707	Hold, Hand	1	
D	96702659	Screw, Hex M08-1.25 X 25	4	
E	36895746	Nutsert, Hex M08	2	
F	54739800	Rail, Top Side	2	Standard
	22194708	Rail, Top Side	2	Galvanneal
G	54773155	Panel, Side	2	Standard
	22194658	Panel, Side	2	Galvanneal
H	35279025	Screw, Tapping M08-1.25 X 20Front	16	
J	22192132	Bracket, Side Panel	4	
K	22112478	Baffle, Intake	1	
L	54739784	Endcap, Front	1	
M	54739826	Panel, Front CRBSD	1	
N	54739859	Panel, Rear CRBSD	1	Standard
	22194682	Panel, Rear CRBSD	1	Galvanneal
P	54739792	Panel, Rear End	1	Standard
	22194690	Panel, Rear End	1	Galvanneal
Q	35337328	Stud, Ball M08	4	
R	36881886	Nut, Hex Flange M08-1.25	6	
S	54739842	Panel, Front STSD	1	
T	54739834	Panel, Rear STSD	1	Standard
	22194674	Panel, Rear STSD	1	Galvanneal
U	54739867	Panel, Lower STSD	1	Standard
	22194666	Panel, Lower STSD	1	Galvanneal
V	54718184	Strap, Foam Retaining	8	
W	35369313	Step, Folding	1	

Door and Baffle Enclosure



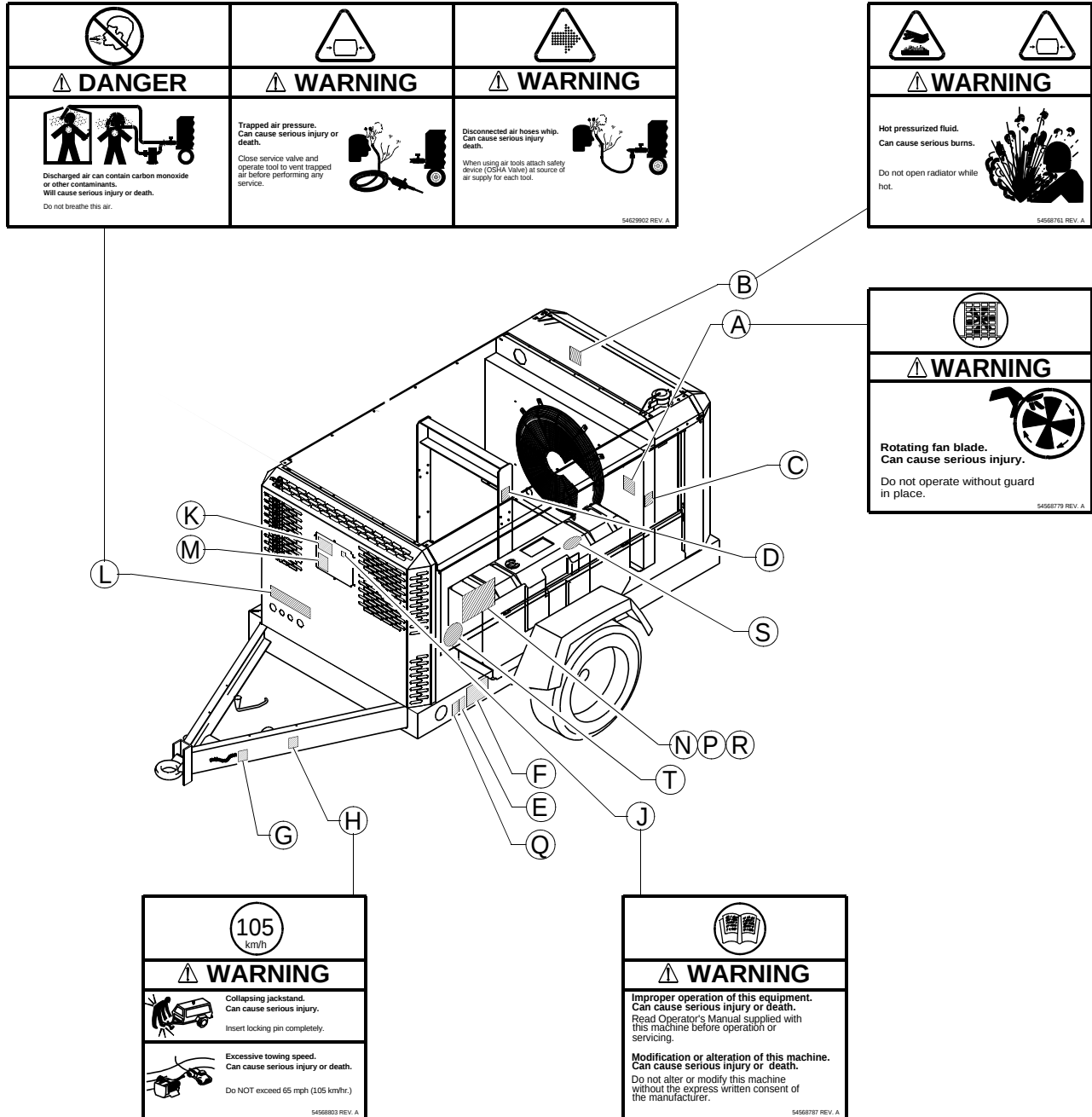
Foam Insulation



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	22094304	Panel, Acoustic Cooler	1	
B	22094296	Panel, Acoustic Engine	1	
C	22094288	Panel, Acoustic Lift Bail	1	
D	22094270	Panel, Acoustic Front	1	
E	22094239	Panel, Acoustic Rear CRBSD	1	
F	22164842	Panel, Acoustic Upper Door	2	
G	22164859	Panel, Acoustic Lower Door	2	
H	22095079	Panel, Acoustic Front Side	2	
J	22094247	Panel, Acoustic Lower Side	1	
K	22096531	Panel, Acoustic Rear End Tp	1	
L	22096598	Panel, Acoustic Rear End Lower	1	
M	54674957	Panel, Acoustic Rear Cover	2	
N	22094452	Panel, Acoustic Rear STSD	1	
P	22164867	Panel, Acoustic Baffle	2	
Q	22095129	Panel, Acoustic Front End	1	
R	22096523	Panel, Acoustic Intake Bracket	1	
S	22227086	Panel, Acoustic Inside Baffle	1	
T	22096515	Panel, Acoustic Outside Baffle	1	

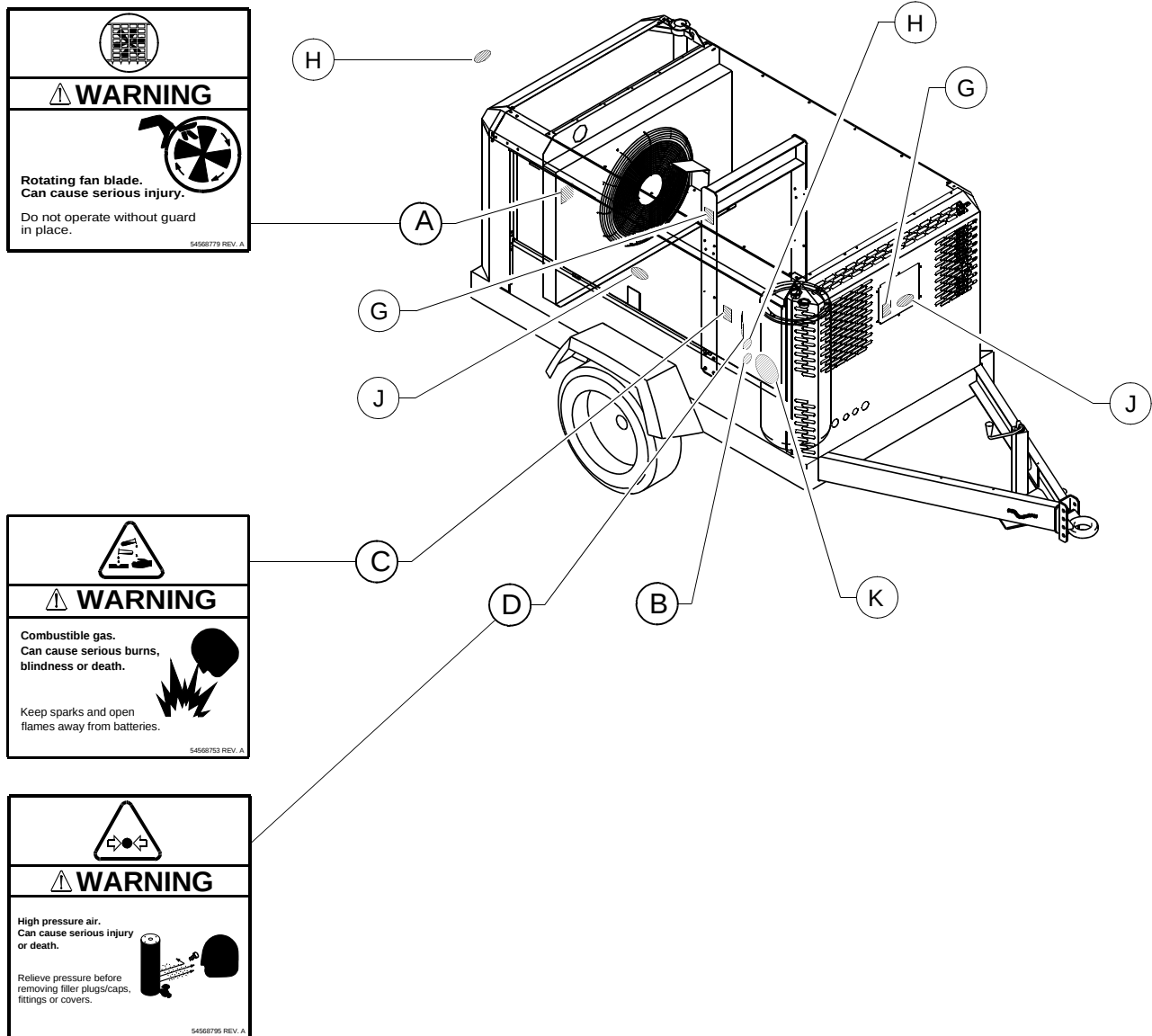
STSD Decal Location



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54568779	Rotating Fan Warning	1	
B	54568761	Hot Pressurized Fluid Warning	1	
C	54604962	Notice, Radiator Fill	1	
D	54625207	Diesel Fuel	1	
E	22743819	Decal, Tire Load	1	
F	36531176	V. I. N.	1	
G	54604921	Notice, Tow Chains	1	
H	54568803	2-Part Drawbar Warning	1	
J	54568787	Improper Operation	1	
K	54749163	Operating Instructions	1	
L	54629902	3-Part Danger/Warning	1	
M	22299051	Symbol Interpretation	1	
N	23077324	Laminate Set, P425A-P600	1	
P	22068282	Screw, Tapping M04-0.7 X 25	2	
Q	36514602	Decal, EPA Noise	1	
R	36788982	Binder, 3-Ring	1	
S	54640016	PowerTrain Warranty	1	
T	22916720	IR Powered	1	

CRBSD Decal Location



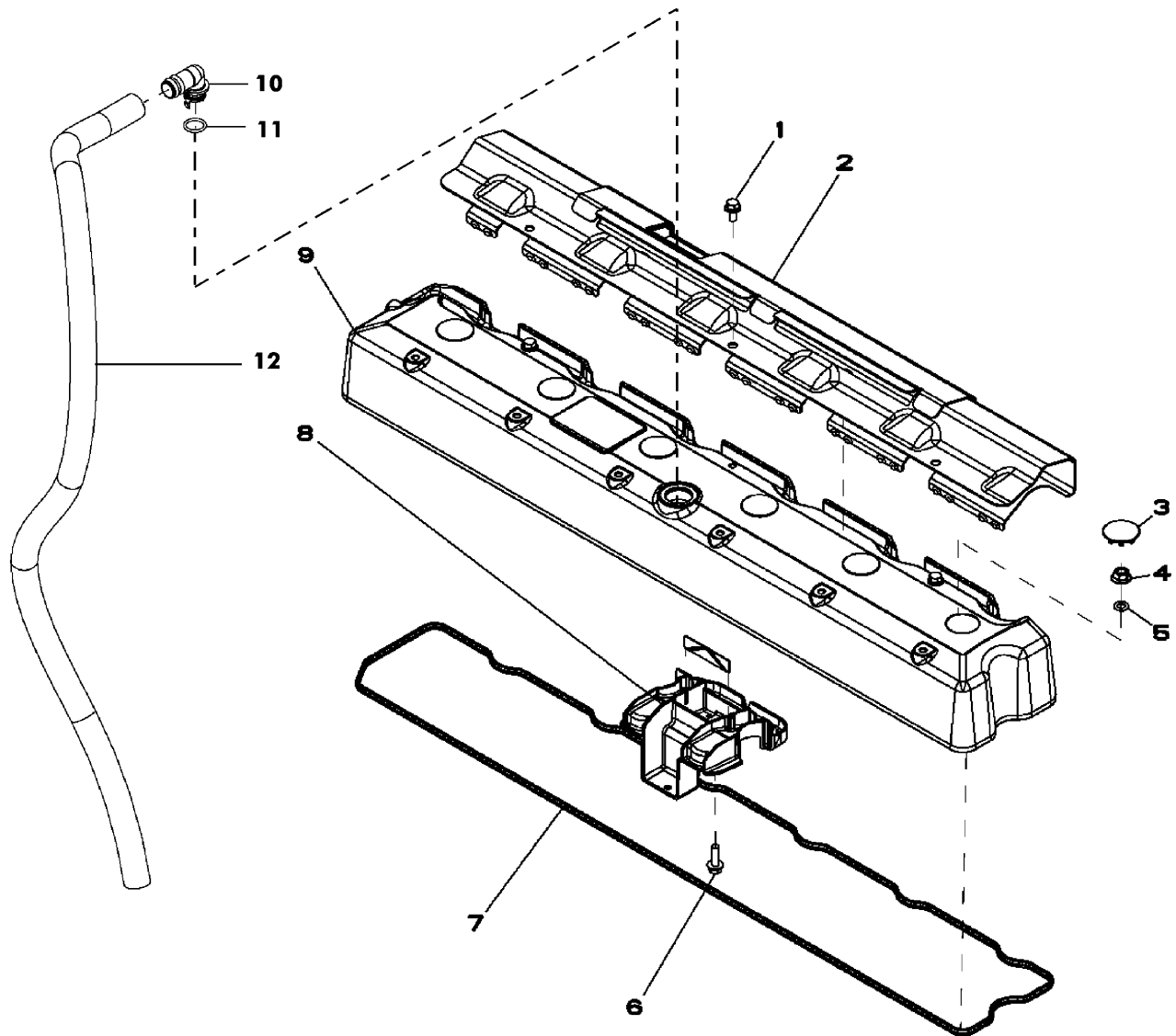
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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54568779	Rotating Fan Warning	1	
B	54604970	Oil Fill	1	
C	54568753	Battery Gas Warning	1	
D	54568795	High Pressure Warning	1	
E	23230857	Serial Number Plate	1	
F	36794816	Rivet	2	
G	54454756	Caution No Ether Decal	2	
H	54640024	Genuine Parts	3	
J	54640016	PowerTrain Warranty	2	
K	22916720	IR Powered	1	



Section C - ENGINE PARTS

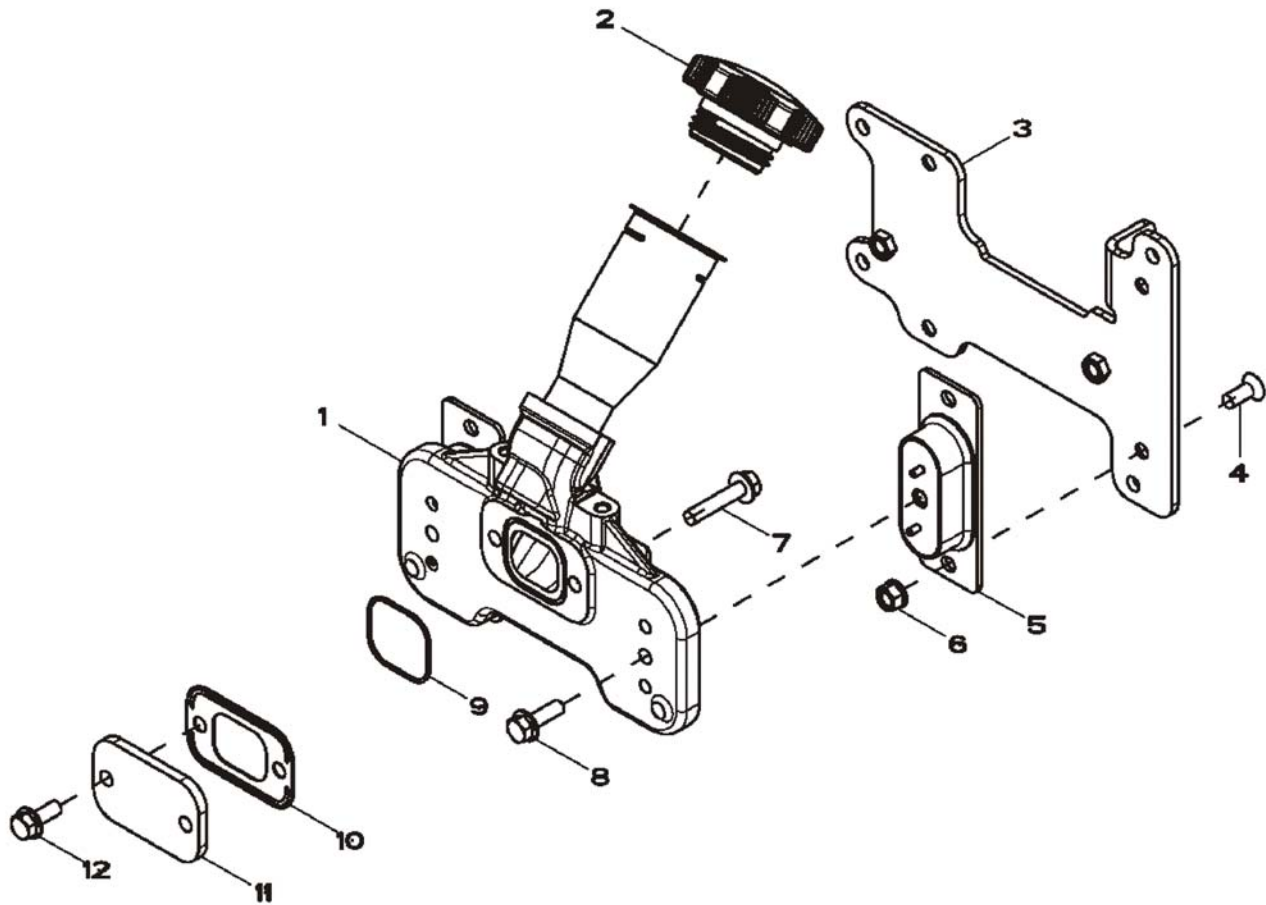
Rocker Arm Cover



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23110539	Screw, Hex Flange M06-1.0 X 12	3	
2	23254899	Shield, Heat	1	
3	36102929	Plug	6	
4	36106763	Nut, Hex Flange M08-1.25	6	
5	36106771	O-Ring, 7.595 X 2.616 mm	6	
6	24898918	Screw, Hex Flange M06-1.0 X 20	1	
7	23254881	Gasket, Rocker Arm Cover	1	
8	23019847	Deflector	1	
9	23254865	Cover, Valve	1	
10	36105062	Fitting, 90° Elbow	1	
11	36110385	O-Ring, 18.72 X 2.616 mm	1	
12	22899171	Hose, 1" OD X 1100 mm	1	

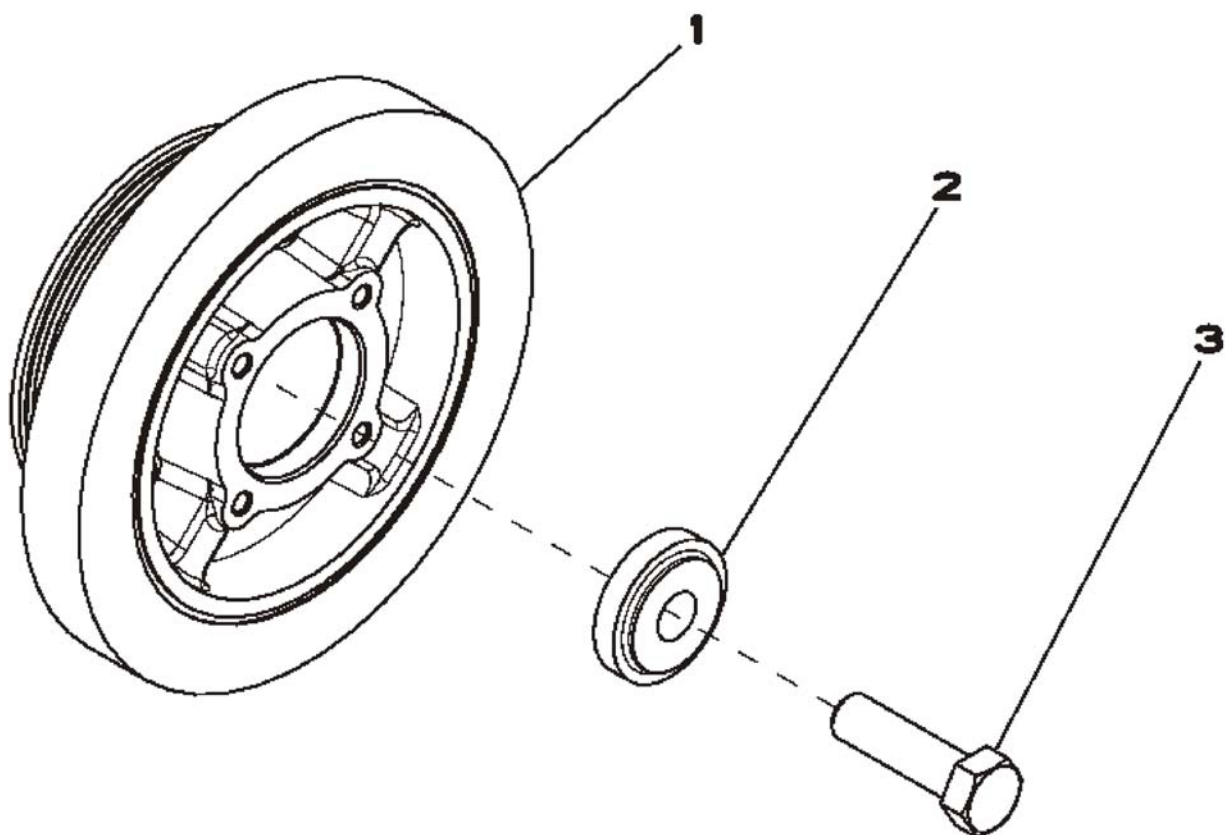
Oil Fill



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23230188	Neck, Filler	1	
2	23229909	Cap, Filler	1	
3	23230212	Bracket, ECU Mounting	1	
4	23236912	Screw, Button Head M08-1.25 X 20	4	
5	23236938	Isolator	2	
6	24898801	Nut, Hex Flange M08-1.25	4	
7	85471092	Screw, Hex Flange M08-1.25 X 40	2	
8	23110661	Screw, Hex Flange M08-1.25 X 25	2	
9	23229560	O-Ring, 47.346 X 1.778 mm	1	
10	36108595	Gasket, Oil Fill Cover	1	
11	36104602	Cover, Oil Fill Port	1	
12	36118149	Screw, Hex Flange M08-1.25 X 20	2	

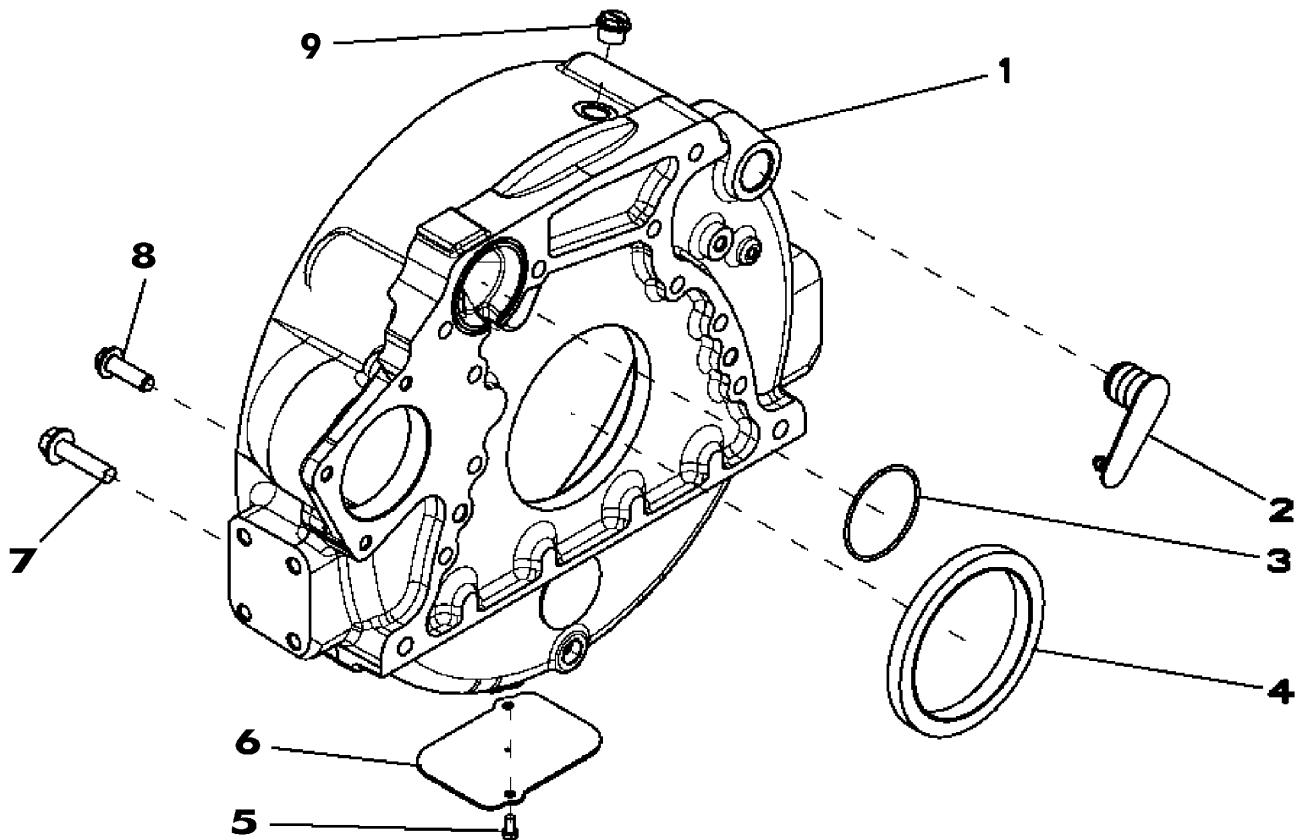
Crankshaft Pulley



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23254907	Pulley, Crankshaft w/ Damper	1	
2	23254915	Bushing, Crankshaft Pulley	1	
3	23236979	Screw, Hex Socket Head Cap M20-2.50 x 70	1	

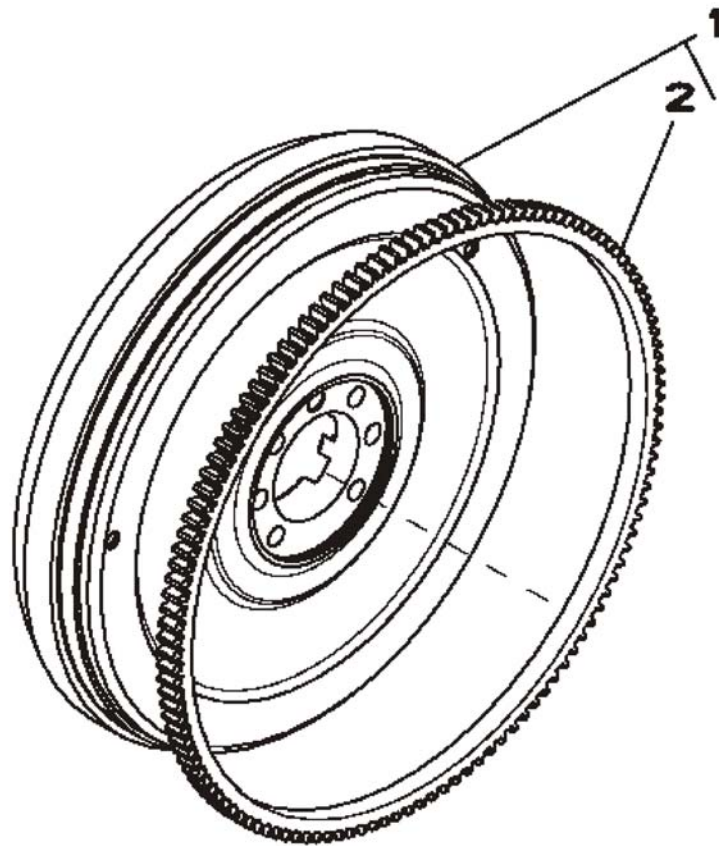
Flywheel Housing



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	18965079	Housing, Flywheel	1	
2	36108009	Plug	1	
3	24899478	O-Ring, 69.52 X 2.616 mm	1	
4	36114015	Seal, Rear Oil	1	
5	85470458	Screw, Hex Cap M06-1.0 X 12	2	
6	36105252	Plate	1	
7	85470003	Screw, Hex Flange M12-1.75 X 50	4	
8	36108579	Screw, Special Flange M12-1.75 X 38	8	
9	36108918	Fitting	1	

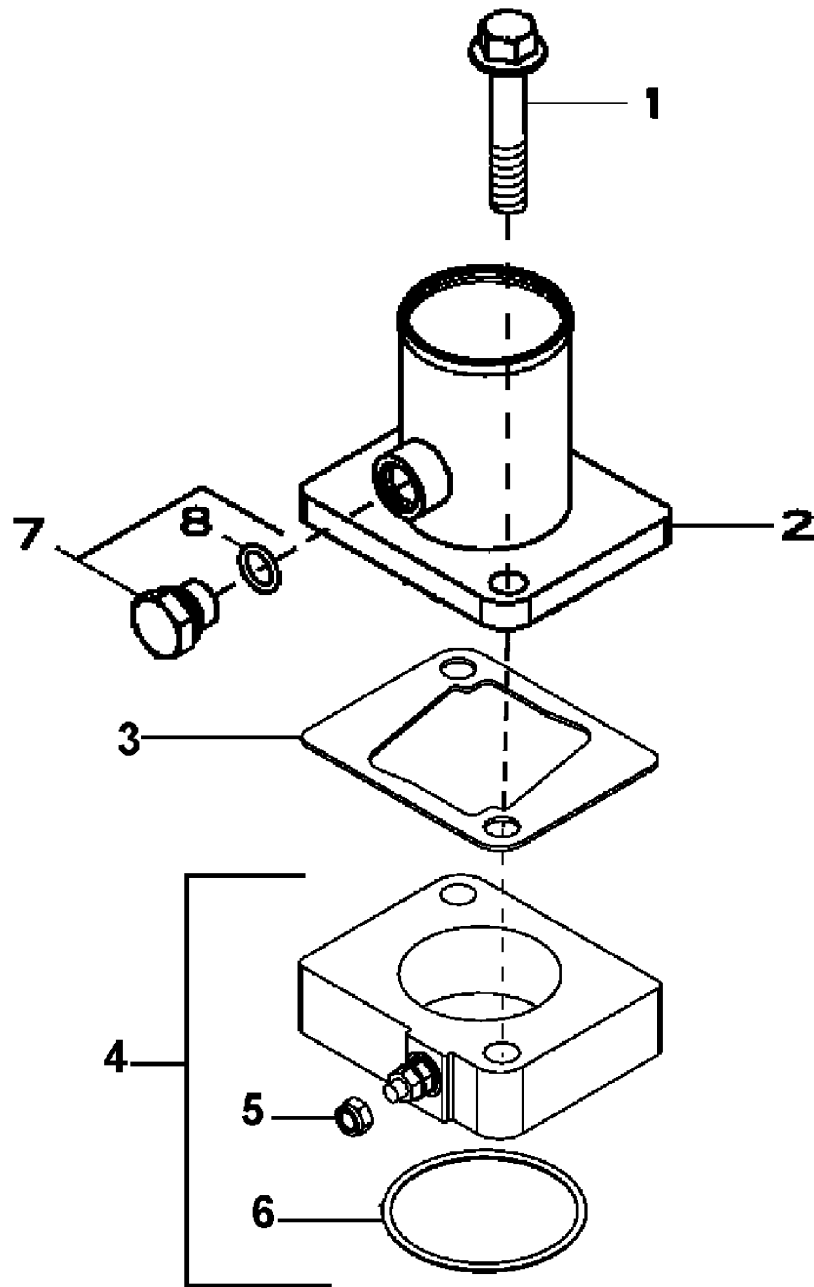
Flywheel



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	85473395	Flywheel & Ring Gear	1	
2	36108819	Gear, Flywheel Ring	1	

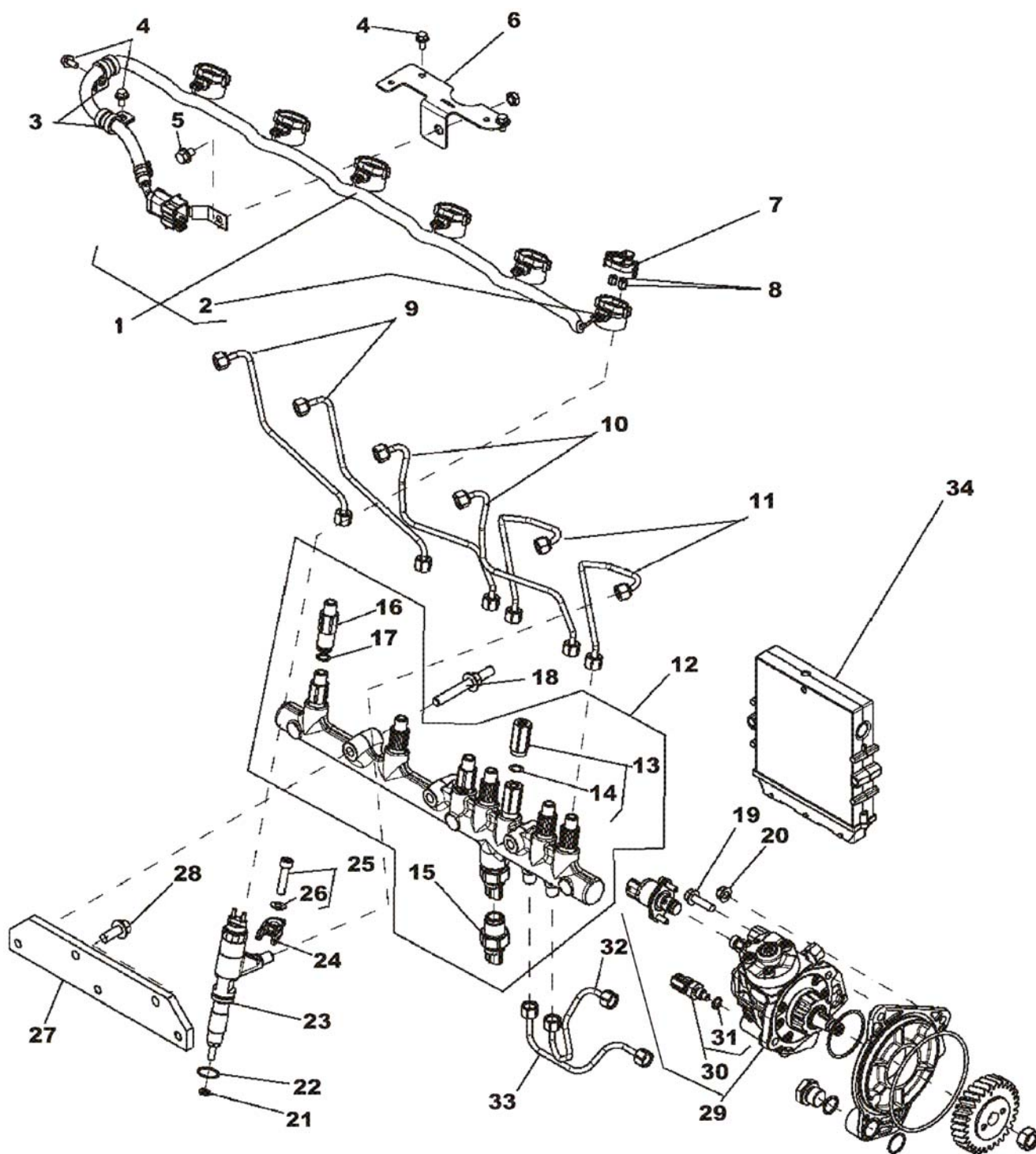
Intake Air Manifold



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23254956	Screw, Hex Flange M10-1.50 X 55	2	
2	36137461	Manifold, Intake	1	
3	36125276	Gasket, Intake Manifold / Adapter	1	
4	85473999	Heater, 24V Air Intake	1	
5	36100154	Nut, Hex Lock M06-1.0	1	
6	85472587	O-Ring, 58.42 X 2.616 mm	1	
7	36114072	Plug w/O-Ring, M14-2 X 1.5	1	
8	85470607	O-Ring, 11.30 X 2.20 mm	1	

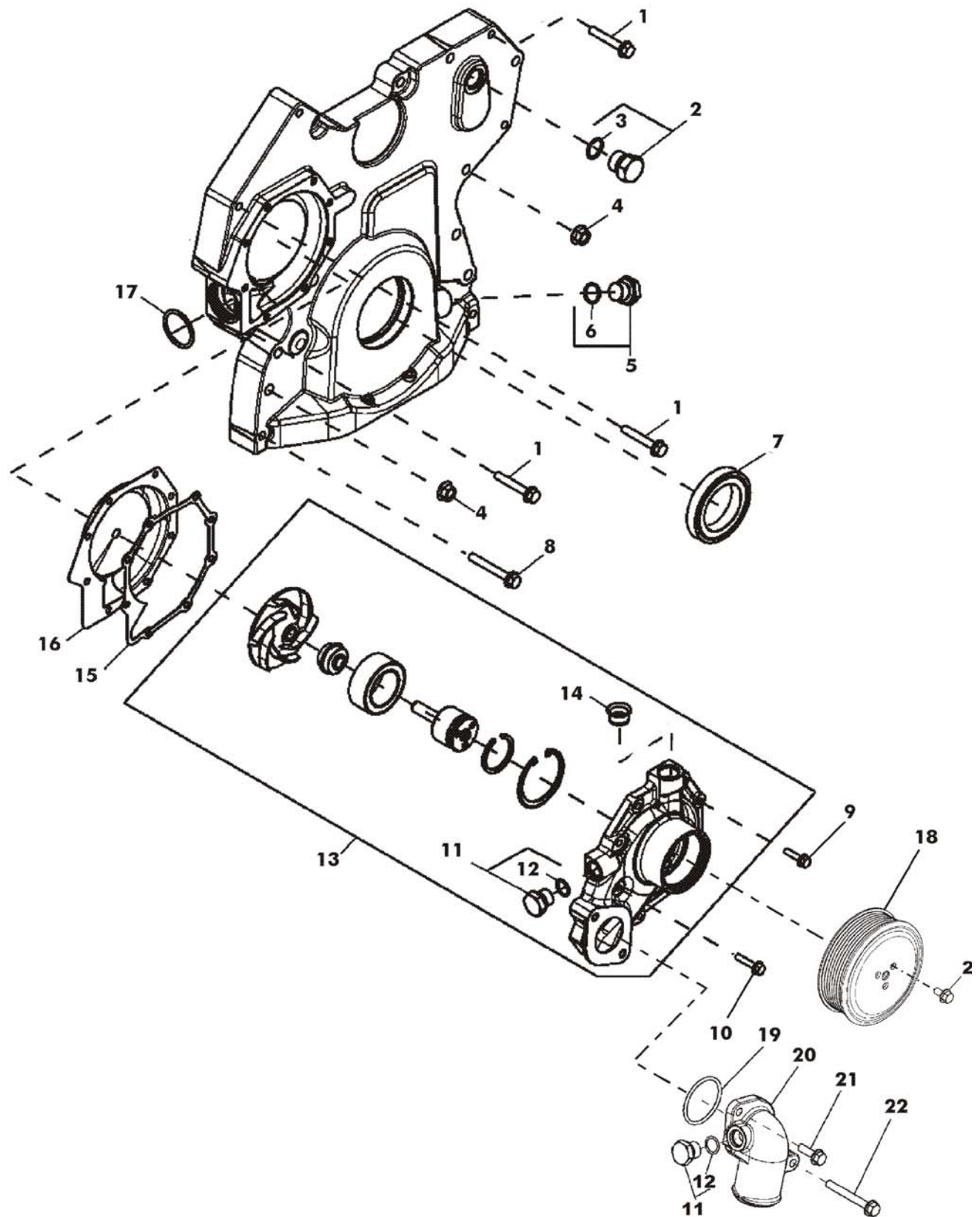
Fuel Injection Pump, Controller and Lines



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23254931	Harness, Engine Fuel Wiring	1	
2	23229792	Seal	1	
3	23230329	Clamp	2	
4	23230162	Screw, Hex Flange M06-1.0 X 12	4	
5	23230071	Screw, Hex Cap M08-1.25 X 12	1	
6	23229834	Bracket, Harness	1	
7	23019813	Cap, Electrical Connector	6	
8	23229529	Nut	12	
9	23019714	Line, Fuel	2	
10	23230139	Line, Fuel	2	
11	23230121	Line, Fuel	2	
12	23018492	Rail, Fuel	1	
13	23229966	Valve, Pressure Relief	1	
14	23017098	Shim	1	
15	23230014	Sensor, Fuel Pressure	1	
16	23229958	Restrictor	6	
17	23017098	Shim	6	
18	23017627	Stud	3	
19	24898926	Screw, Hex Flange M08-1.25 X 30	2	
20	24898801	Nut, Hex Flange M08-1.25	3	
21	23229867	Washer, Sealing	6	
22	23229602	O-Ring, 21.946 X 1.776 mm	6	
23	23230279	Kit, Electronic Unit Injector	6	
24	23229636	Clamp, Fuel Injector	6	
25	23230170	Screw, Hex Socket Head Cap w/ Washer	6	
26	23254949	Washer	6	
27	23019268	Bracket, Fuel Rail	1	
28	18969410	Screw, Hex Flange M10-1.5 X 25	2	
29	36138006	Pump, Fuel Injection	1	
30	23229974	Sensor, Fuel Temperature	1	
31	23019490	O-Ring, Fuel Temp Sensor	1	
32	23230147	Line, Fuel	1	
33	23230154	Line, Fuel	1	
34	23230113	Controller, Engine	1	

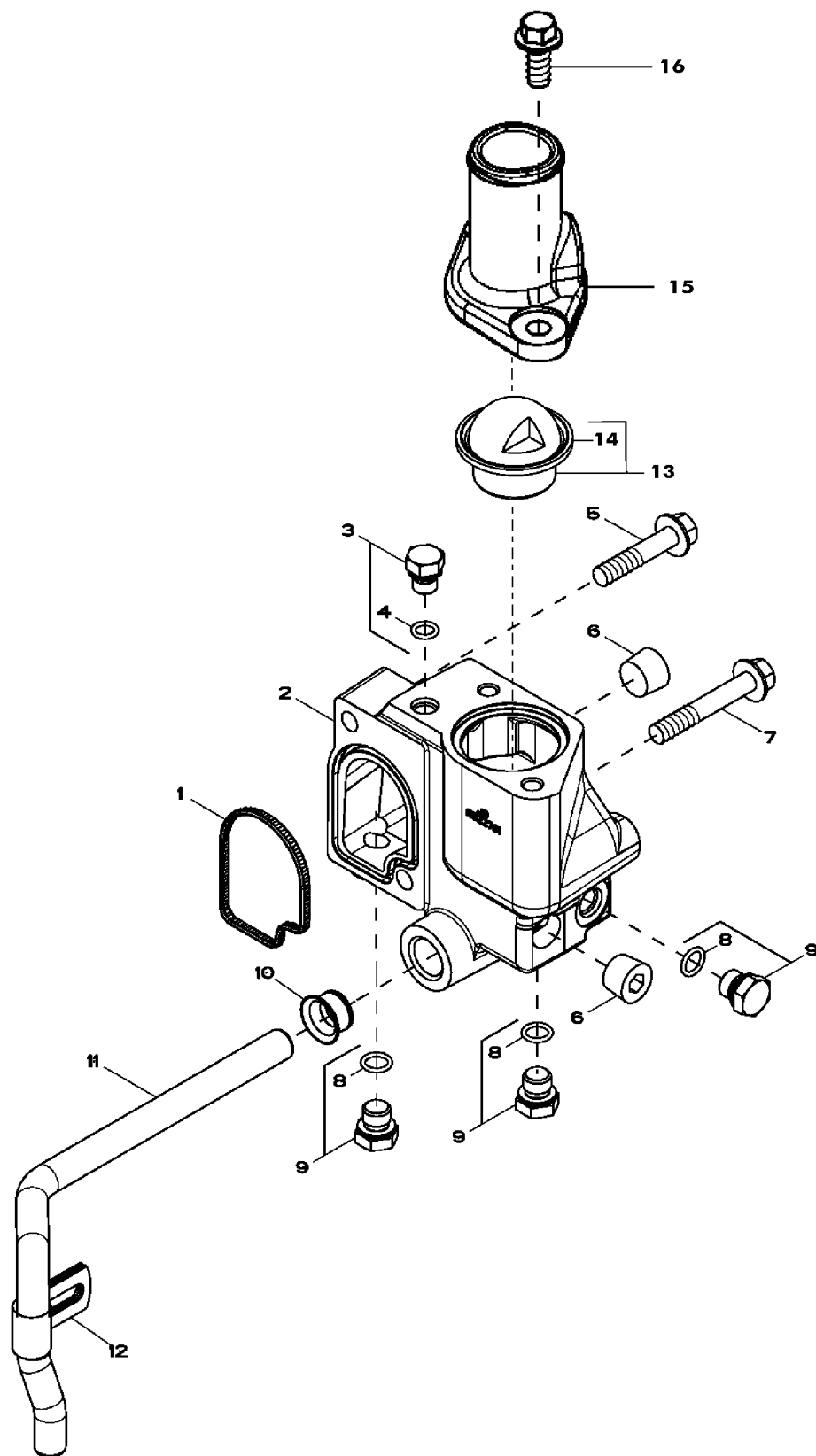
Water Pump



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	85471142	Screw, Hex Flange M08-1.25 X 50	5	
2	36114106	Plug w/ Gasket, M22 -2.5 X 1.5	1	
3	85470649	O-Ring, 19.30 X 2.20 mm	1	
4	36100188	Nut, Hex Flange M10-1.5	9	
5	85473502	Plug w/ Gasket, M20-2.5 X 1.5	1	
6	85470631	O-Ring, 17.3 X 2.2 mm	1	
7	36116036	Seal, Front Oil	1	
8	18969428	Screw, Hex Flange M08-1.25 X 60	3	
9	85471167	Screw, Hex Flange M06-1.0 X 25	5	
10	85471183	Screw, Hex Flange M06-1.0 X 30	3	
11	36114080	Plug w/ Gasket, M18-2.5 X 1.5	2	
12	85470623	O-Ring, 15.3 X 2.20 mm	2	
13	24899601	Pump, Water	1	
14	36106060	Gasket, Water By-Pass Tube	1	
15	36106250	Gasket, Water Pump	1	
16	36136125	Insert Kit, Water Pump	1	
17	36133403	O-Ring, 37.694 X 3.531 mm	1	
18	36105245	Pulley, Water Pump	1	
19	36111425	O-Ring, 50.394 X 3.531mm	1	
20	24899338	Housing, Water Pump Inlet	1	
21	23110661	Screw, Hex Flange M08-1.25 X 25	1	
22	23110984	Screw, Hex Flange M08-1.25 X 65	1	
23	23110539	Screw, Hex Flange M06-1.0 X 12	3	

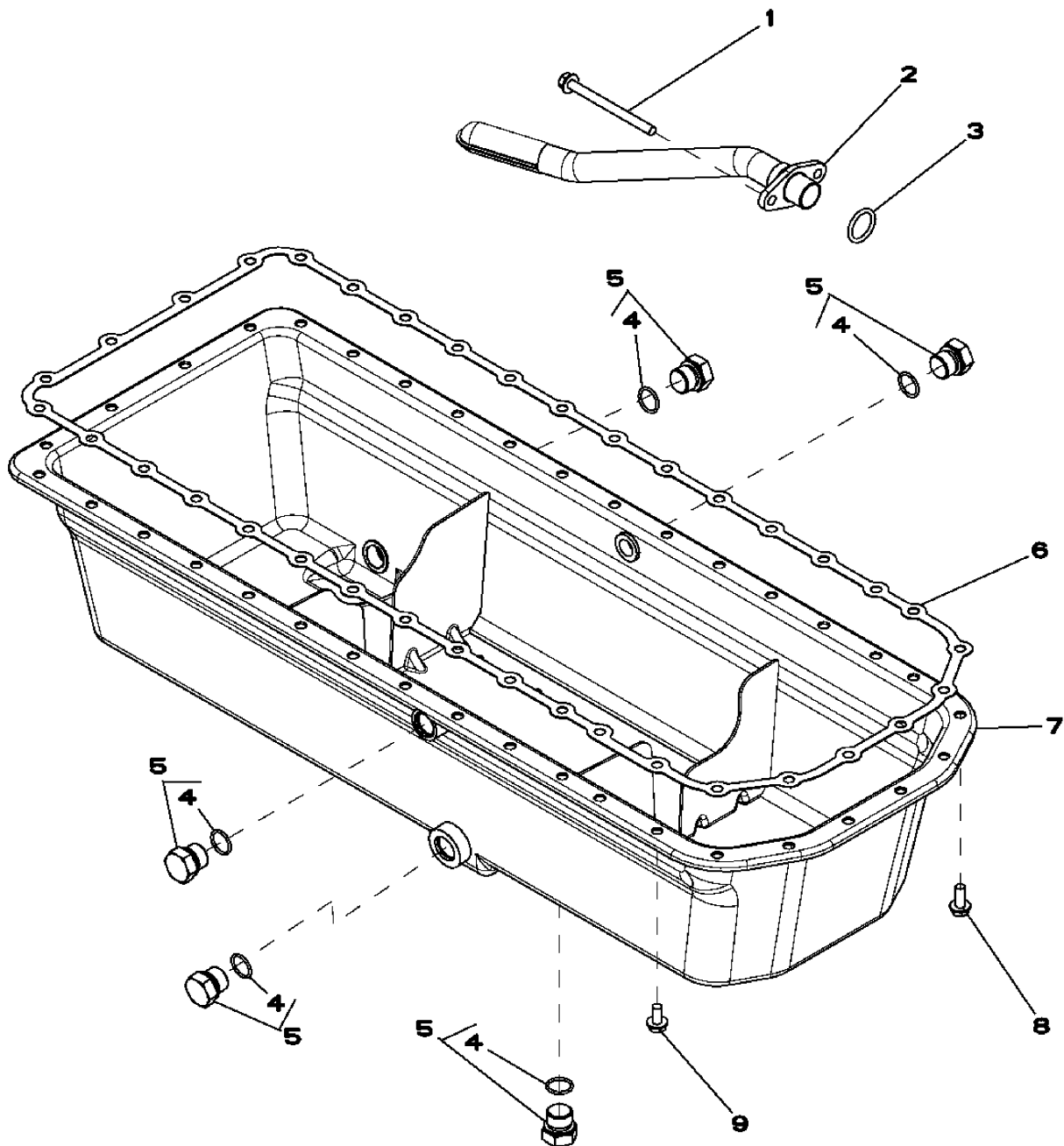
Thermostat



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23019227	Seal, Thermostat Housing	1	
2	23019391	Housing, Thermostat	1	
3	36114098	Plug w/ Gasket, M12-1.75 X 1.5	1	
4	36126019	O-Ring, 9.3 X 2.2 mm	1	
5	85470474	Screw, Hex Flange M10-1.50 X 50	1	
6	23230295	Plug, Pipe 1/2-14 NPTF	2	
7	24898876	Screw, Hex Flange M10-1.5 X 65	1	
8	85470607	O-Ring, 11.30 X 2.20 mm	1	
9	36114072	Plug w/O-Ring, M14-2 X 1.5	3	
10	36106060	Gasket, Water By-Pass Tube	1	
11	23017312	Tube, Water Pump By-Pass	1	
12	36106177	Clamp	1	
13	23019862	Thermostat	1	
14	23019342	Seal, Thermostat	1	
15	23254980	Cover, Thermostat	1	
16	18969410	Screw, Hex Flange M10-1.5 X 25	2	

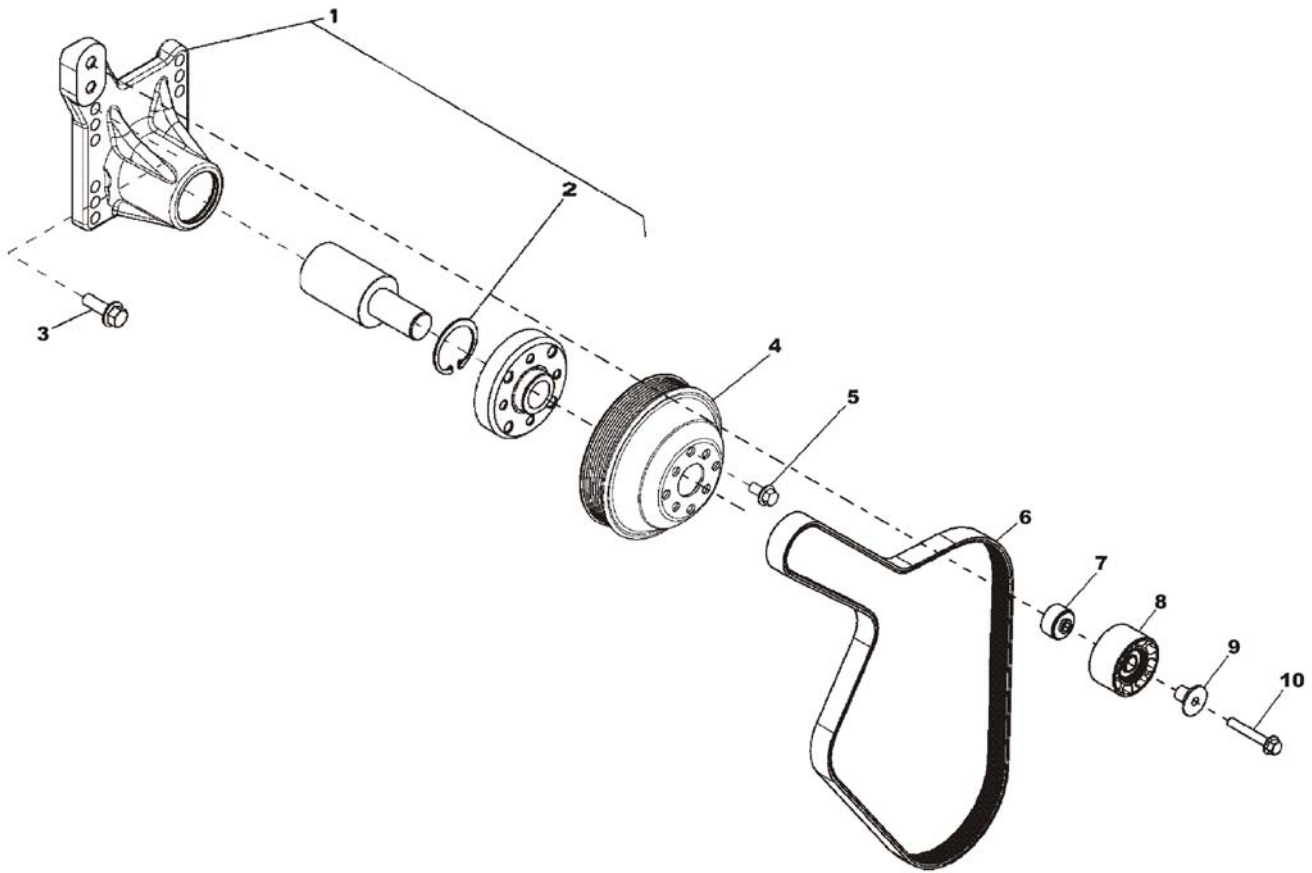
Oil Pan



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	85470508	Screw, Hex Flange M08-1.25 X 100	2	
2	85474781	Tube, Oil Pump Intake	1	
3	36109932	O-Ring, 24.990 X 3.530 mm	1	
4	85470649	O-Ring, 19.30 X 2.20 mm	5	
5	36114106	Plug w/ Gasket, M22 -2.5 X 1.5	5	
6	23254964	Gasket, Oil Pan	1	
7	23254972	Pan, Oil	1	
8	24898934	Screw, Hex Flange M08-1.25 X 20	6	
9	24898959	Screw, Hex Flange M08-1.25 X 16	30	

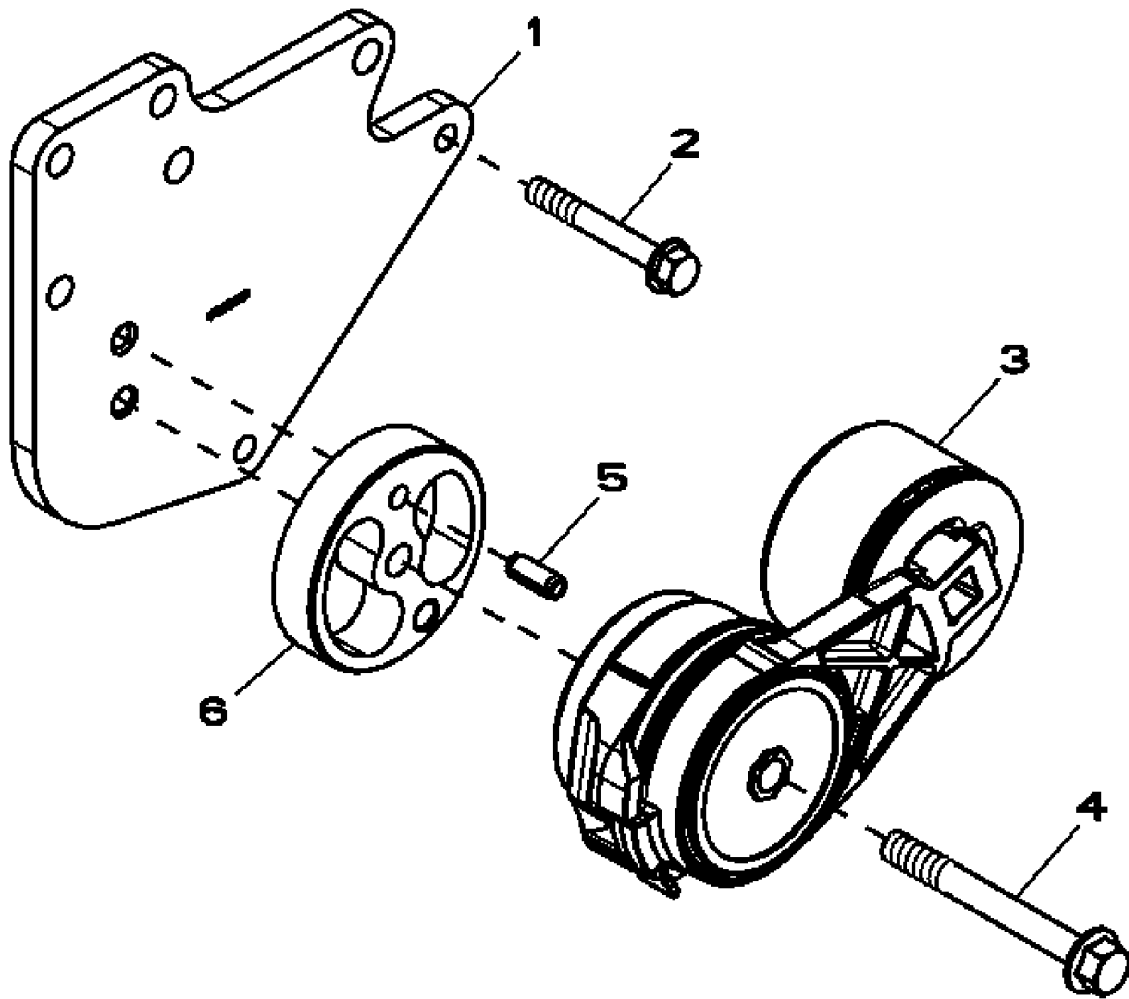
Fan Drive



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	85473700	Support, Fan Drive	1	
2	36102838	Ring, Snap	1	
3	24898843	Screw, Hex Flange M10-1.50 X 30	4	
4	36107480	Pulley, Fan	1	
5	18963595	Screw, Hex Flange M10-1.50 X 20	4	
6	23094170	V-Belt	1	
7	85472280	Spacer, Idler Pulley	1	
8	36114486	Pulley, Idle	1	
9	36103828	Sleeve, Idler Pulley	1	
10	24898876	Screw, Hex Flange M10-1.5 X 65	1	

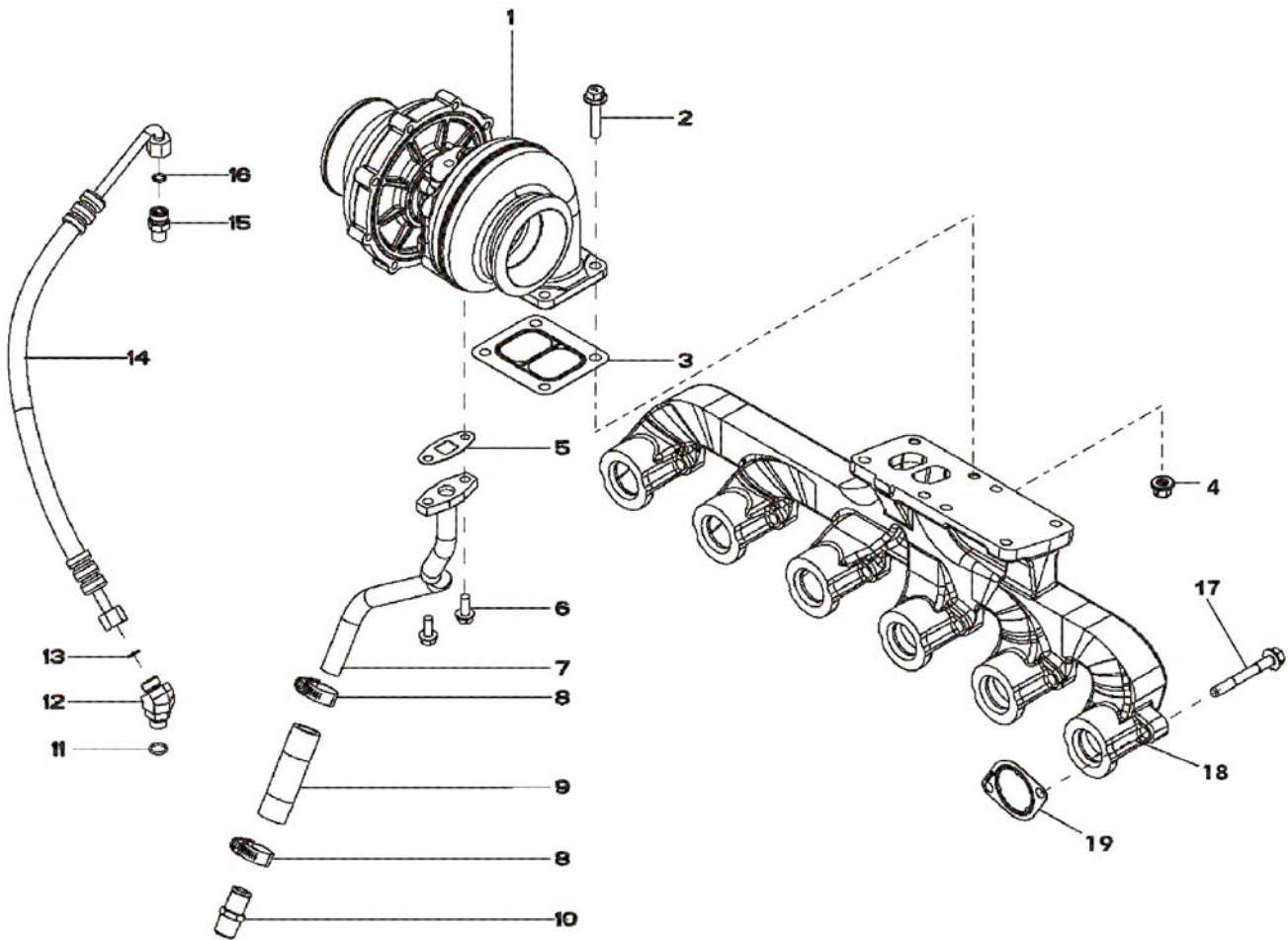
Belt Tensioner



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23019458	Support, Idle Tensioner	1	
2	18969428	Screw, Hex Flange M08-1.25 X 60	2	
3	36136869	Tensioner, Idle	1	
4	23236920	Screw, Hex Flange M10-1.5 X 90	1	
5	24899056	Pin, Spring M08 X 20	1	
6	23017189	Spacer, Idle Tensioner	1	

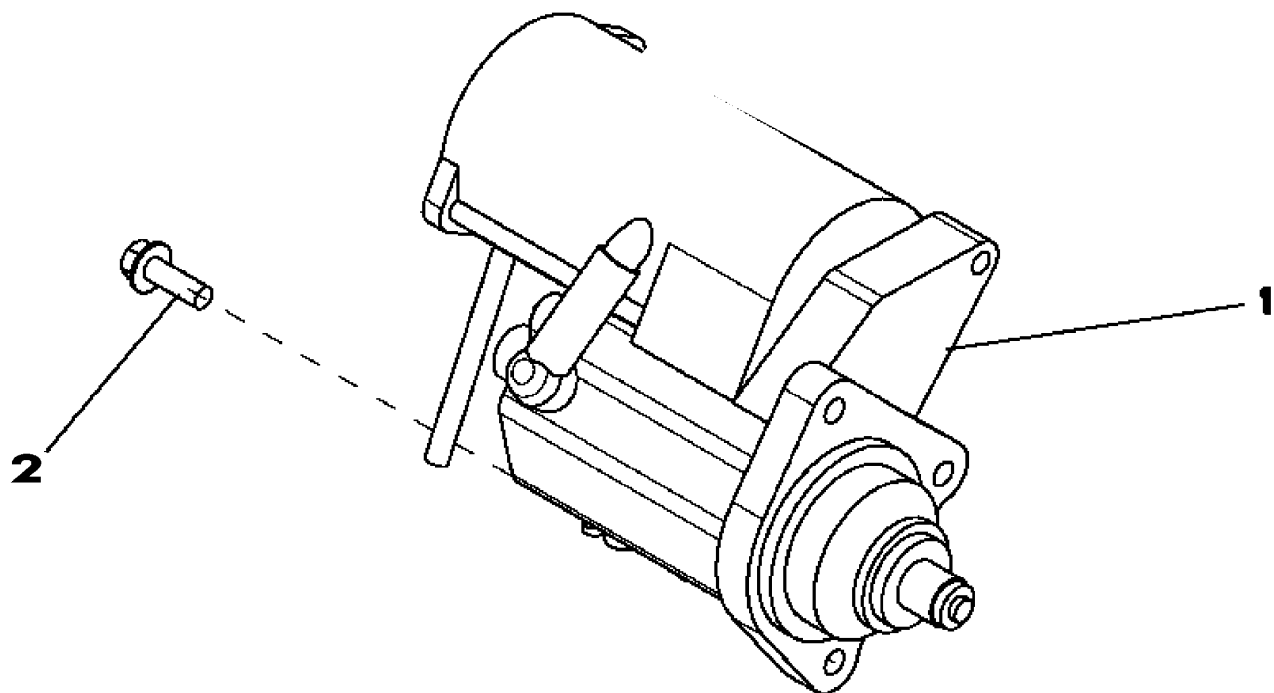
Exhaust Manifold and Turbocharger



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23019854	Turbocharger	1	
2	23017361	Screw, Hex Flange Cap	4	
3	36106755	Gasket, Turbo to Exhaust Manifold	1	
4	36100188	Nut, Hex Flange M10-1.5	4	
5	36106748	Gasket, Turbo to Oil Outlet	1	
6	23110497	Screw, Hex Flange M08-1.25 X 20	2	
7	23019920	Line, Turbo Drain	1	
8	36117885	Clamp, Hose	2	
9	23229859	Hose	1	
10	85474054	Fitting, 1/2"-14 NPTF X Hose	1	
11	85470615	O-Ring, 13.30 X 2.20mm	1	
12	85470581	Fitting, 45° Elbow	1	
13	36119808	O-Ring, 9.246 X 1.778 mm	1	
14	85473676	Line, Turbo Inlet Oil	1	
15	36103182	Adapter, 1/4"-18 NPT X 11/16"-16	1	
16	36110054	O-Ring, 9.246 X 1.778 mm	1	
17	23229776	Screw, Hex Flange M10-1.75 X 80	12	
18	23019482	Manifold, Exhaust	1	
19	23017395	Gasket, Exhaust Manifold	6	

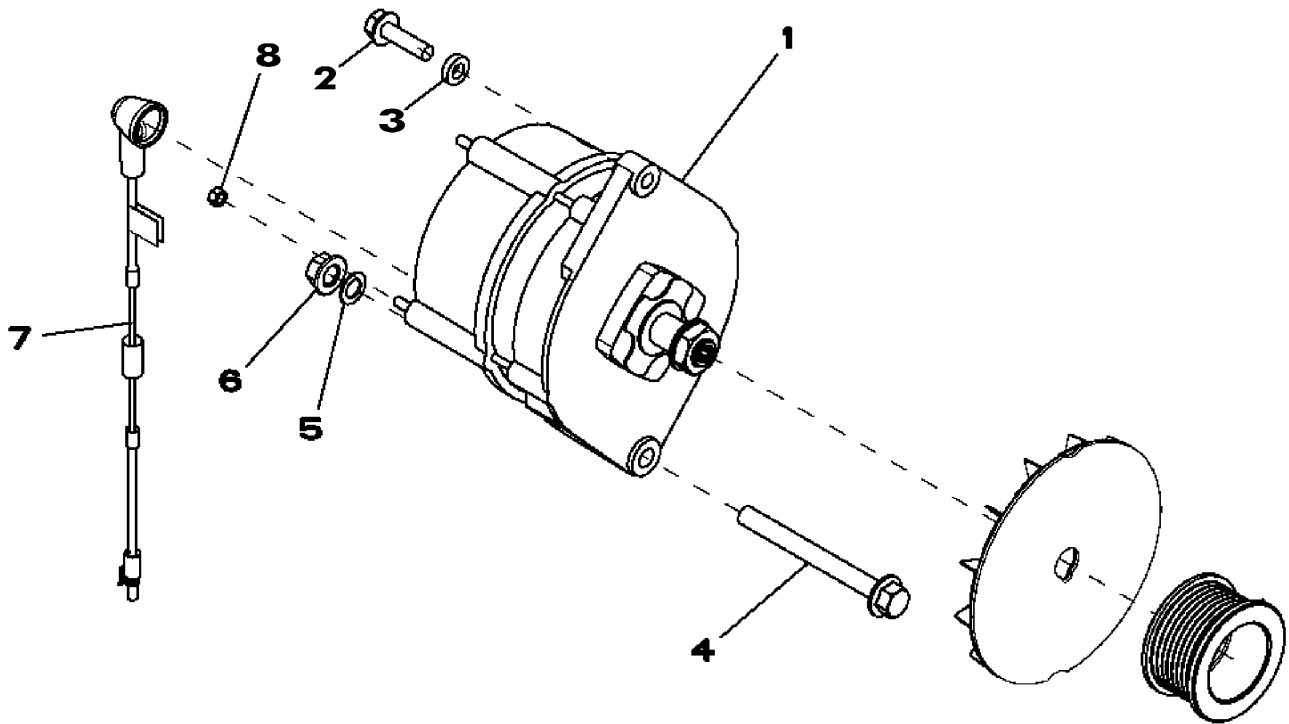
Starter



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	22206213	Starter	1	
2	24898843	Screw, Hex Flange M10-1.50 X 30	3	

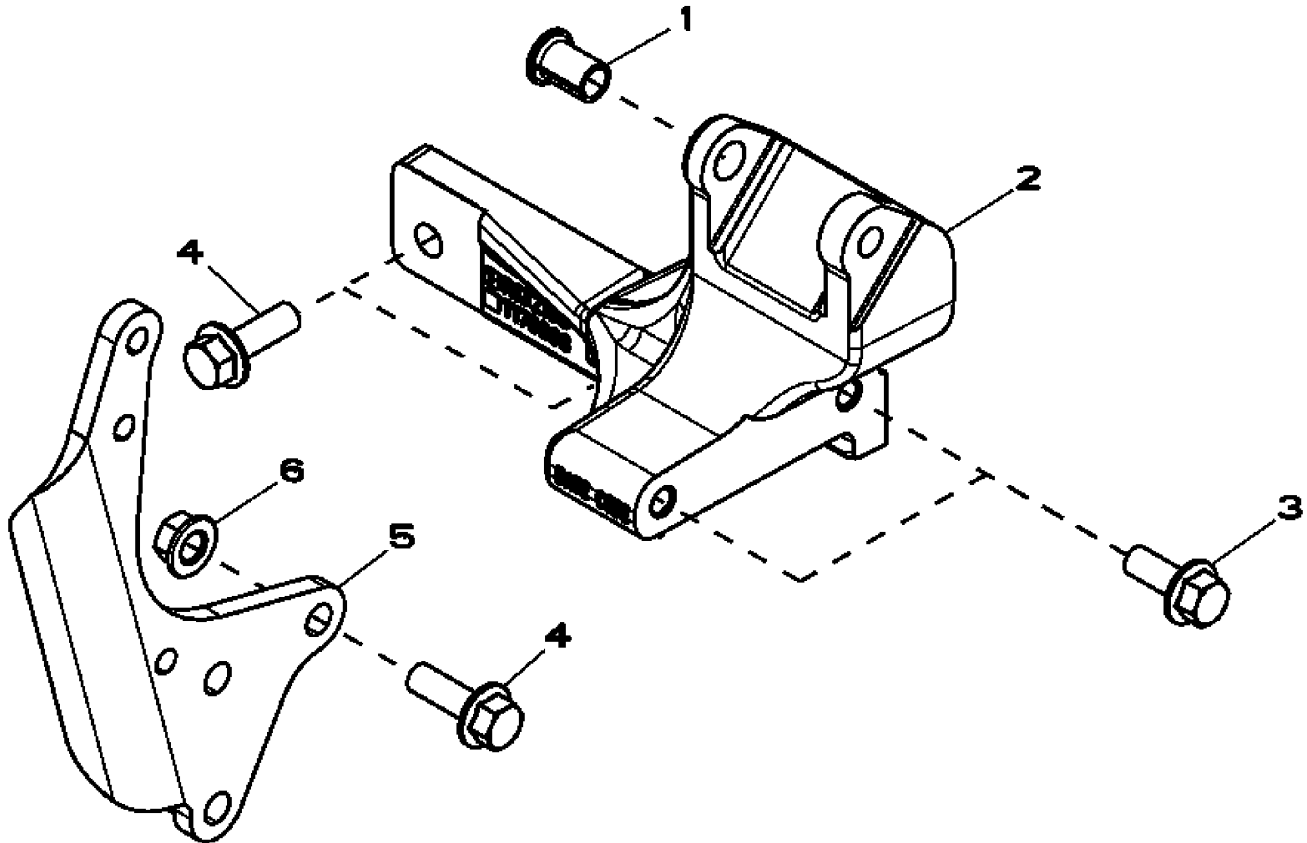
Alternator



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23229511	Alternator	1	
2	24898926	Screw, Hex Flange M08-1.25 X 30	1	
3	36920114	Washer, Flat M08	1	
4	24898884	Screw, Hex Flange M10-1.5 X 100	1	
5	36110112	Washer, ThrustT M10	1	
6	3610188	Nut, Hex Flange M10-1.5	1	
7	24899577	Harness, Alternator Wiring	1	
8	18963496	Nut, Hex M05-0.8	1	

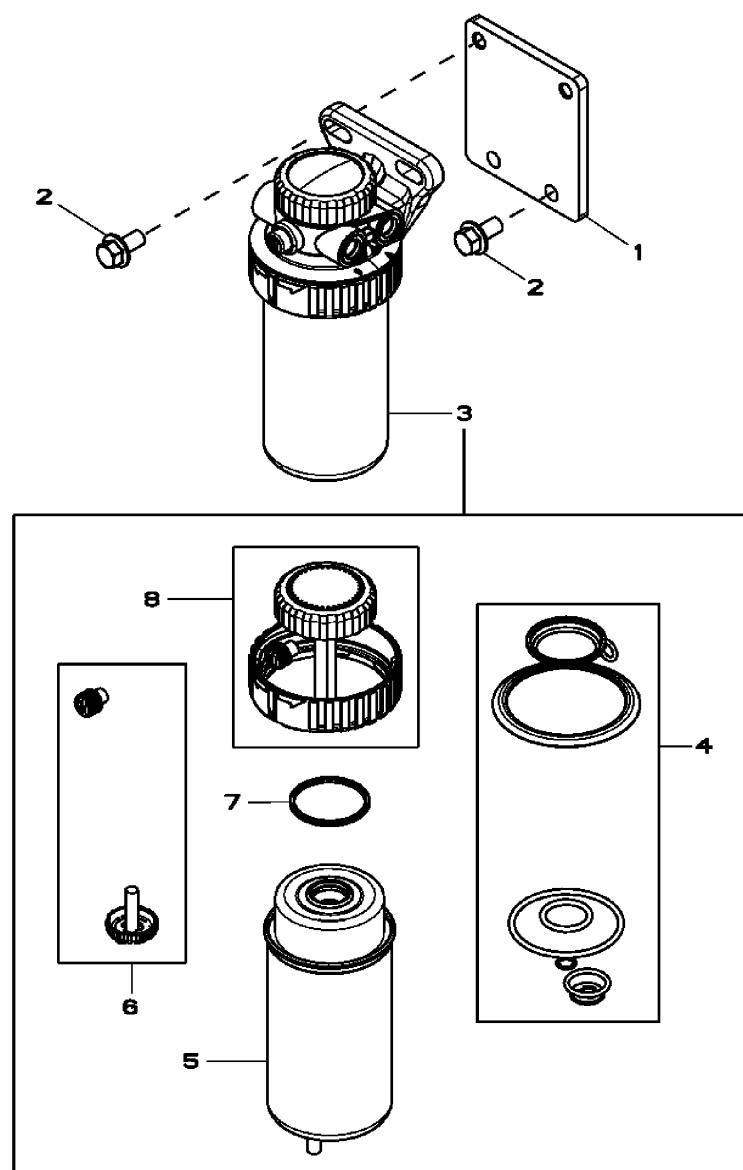
Alternator Mounts



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	36103232	Bushing, Alternator Pivot	1	
2	36108066	Bracket, Alternator Mounting	1	
3	18969410	Screw, Hex Flange M10-1.5 X 25	2	
4	24898843	Screw, Hex Flange M10-1.50 X 30	5	
5	36108074	Strap, Alternator Adjust	1	
6	36100188	Nut, Hex Flange M10-1.5	3	

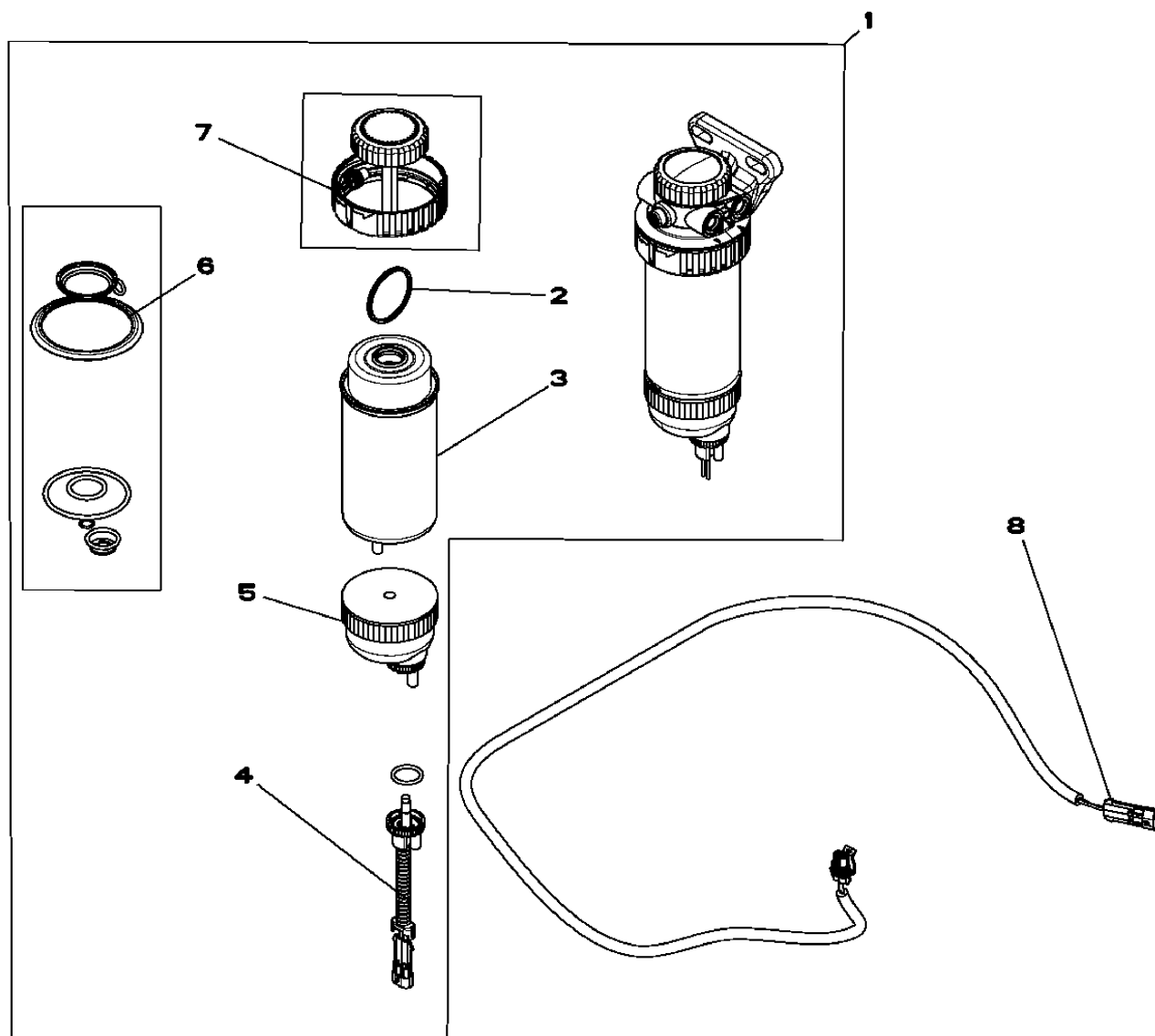
Final Fuel Filter



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	24899452	Bracket, Fuel Filter Mounting	1	
2	18963595	Screw, Hex Flange M10-1.50 X 20	4	
3	23018799	Filter Assembly, 6" Final Fuel	1	
4	36114445	Kit, Seal	1	
5	22969257	Element, Final Fuel Filter	1	
6	36116648	Kit, Fuel Filter Drain	1	
7	24899932	Kit, Fuel Filter Gasket	1	
8	36114536	Kit, Fuel Filter Seal	1	

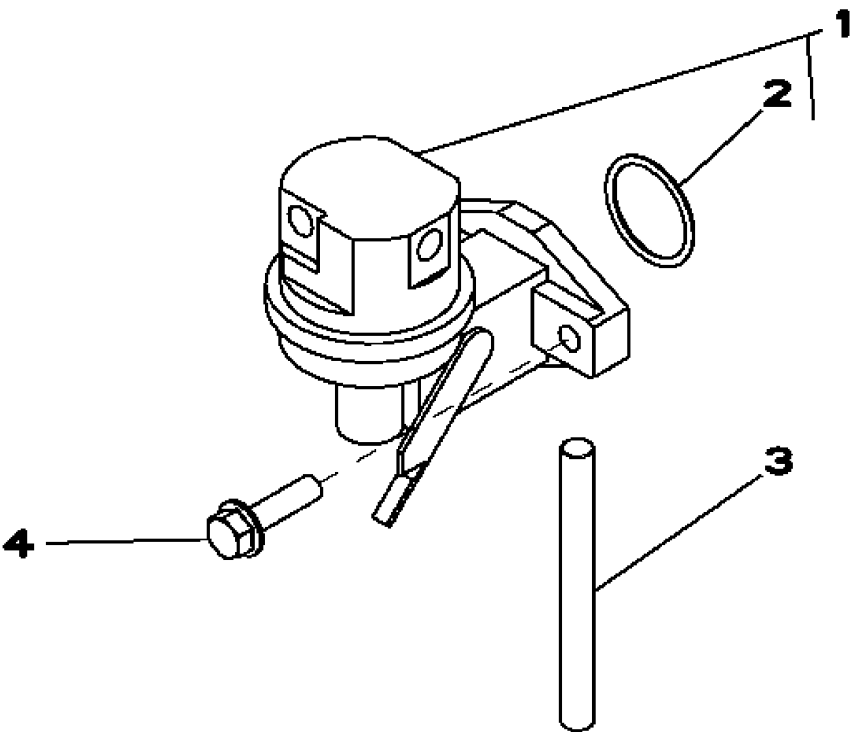
Primary Fuel Filter



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23230063	Filter Assembly, Primary Fuel	1	
2	24899932	Kit, Fuel Filter Gasket	1	
3	23094188	Element, Primary Fuel Filter	1	
4	23229990	Sensor, Moisture	1	
5	36114544	Bowl, Sediment	1	
6	36114445	Kit, Seal	1	
7	36114536	Kit, Fuel Filter Seal	1	
8	23236946	Harness, Fuel Filter Wiring	1	

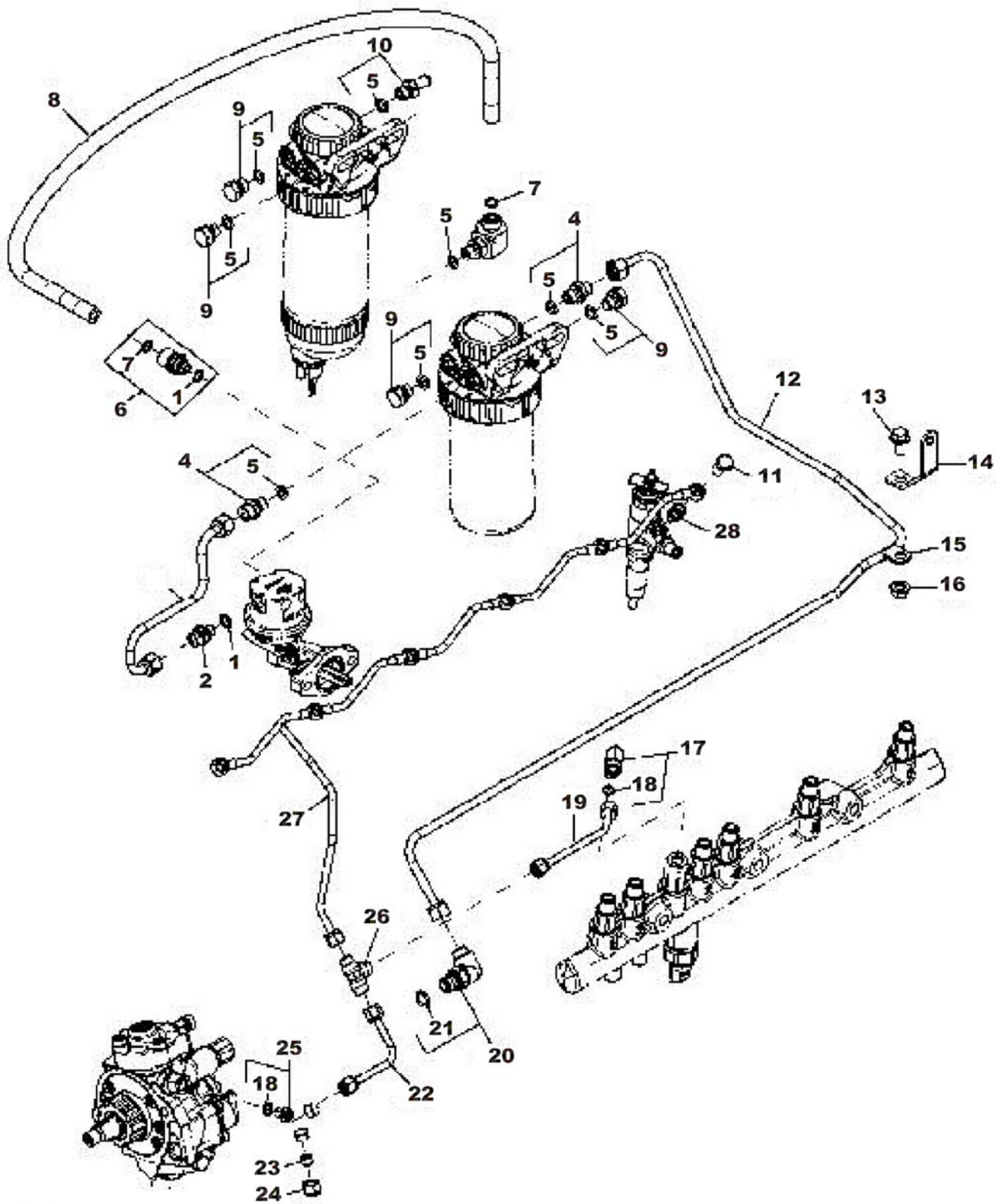
Fuel Transfer Pump



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23229982	Pump, Fuel Transfer	1	
2	36106102	O-Ring, 32.42 X 2.616 mm	1	
3	36108371	Rod, Push	1	
4	24899536	Screw, Hex Flange M08-1.25 X 30	2	

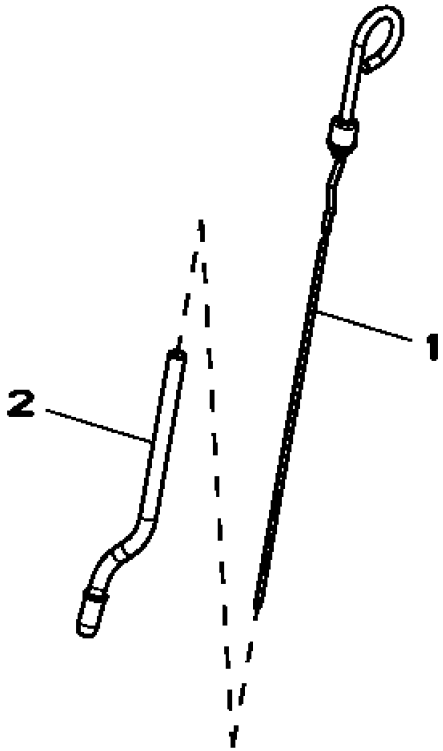
Fuel Lines



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	24899254	O-Ring, 10.10 X 1.60 mm	2	
2	24899247	Fitting, Flex Outlet	1	
3	24899882	Line, Fuel Pump to Fuel Filter	1	
4	36116242	Adapter w/ O-Ring	2	
5	36126019	O-Ring, 9.3 X 2.2 mm	8	
6	23229941	Fitting, Hose	1	
7	36119808	O-Ring, 9.246 X 1.778 mm	2	
8	23229925	Hose, Fuel Line	1	
9	36114098	Plug w/ Gasket, M12-1.75 X 1.5	1	
10	23018013	Fitting, Barbed Hose w/ O-Ring	1	
11	24899080	Screw, Hollow	6	
12	23019656	Line, Fuel	1	
13	22808786	Screw, Hex Flange M08-1.25 X 16	1	
14	36137586	Bracket	1	
15	36118750	Clamp, Fuel Line	1	
16	24898801	Nut, Hex Flange M08-1.25	1	
17	24899528	Fitting, 90° Elbow M10-1.5 X 1/2-24	1	
18	24899106	O-Ring, 8.10 X 1.60 mm	2	
19	23230030	Line, Fuel	1	
20	23230097	Fitting, 90° Elbow M14-2.0 X 9/16-24	1	
21	85470607	O-Ring, 11.30 X 2.20 mm	1	
22	23230238	Line, Fuel	1	
23	36101962	Plug w/ Sleeve	1	
24	36106821	Nut, Tube 1/2"-24	1	
25	23230048	Fitting	1	
26	36111912	Tee, Fitting	1	
27	23019896	Line, Fuel	1	
28	23019417	Washer, sealing	6	

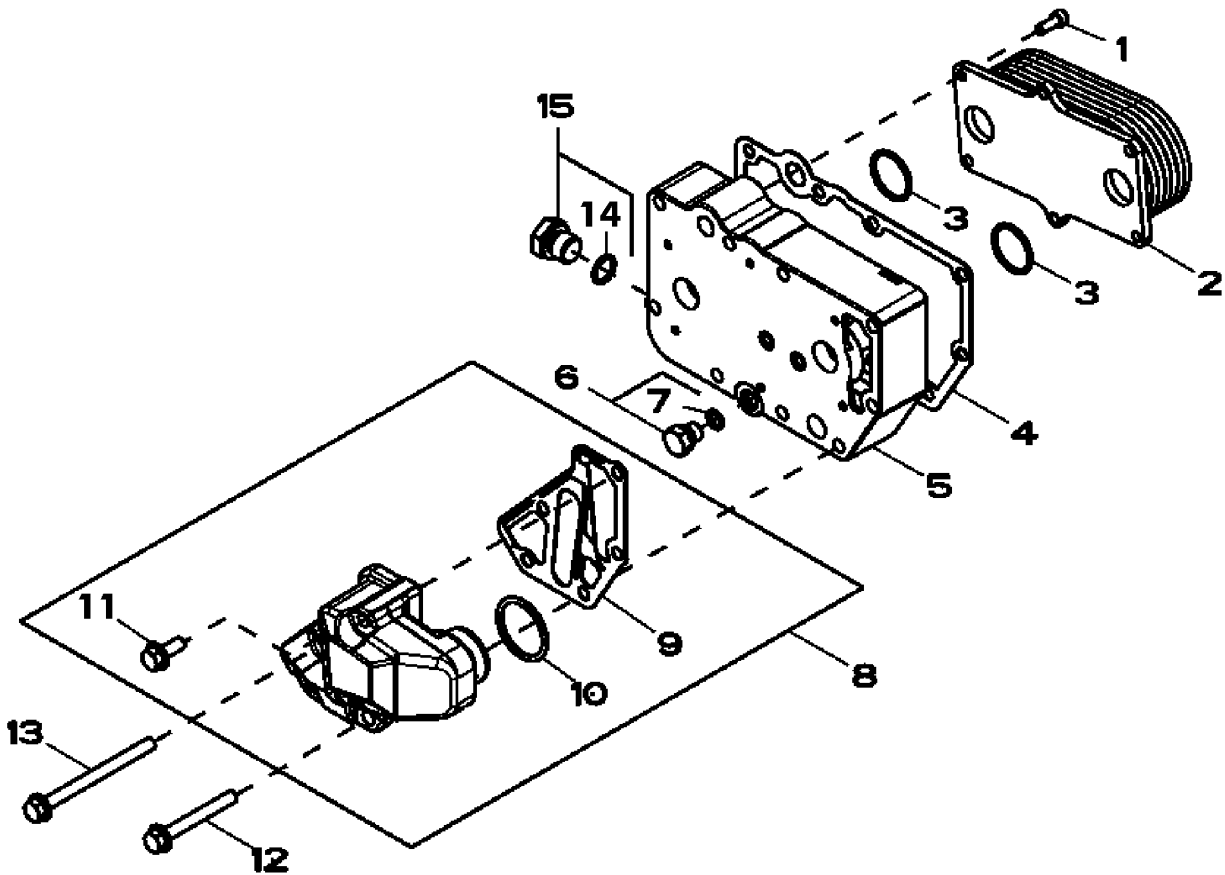
Dipstick



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	36124899	Dipstick	1	
2	36107787	Tube, Dipstick	1	

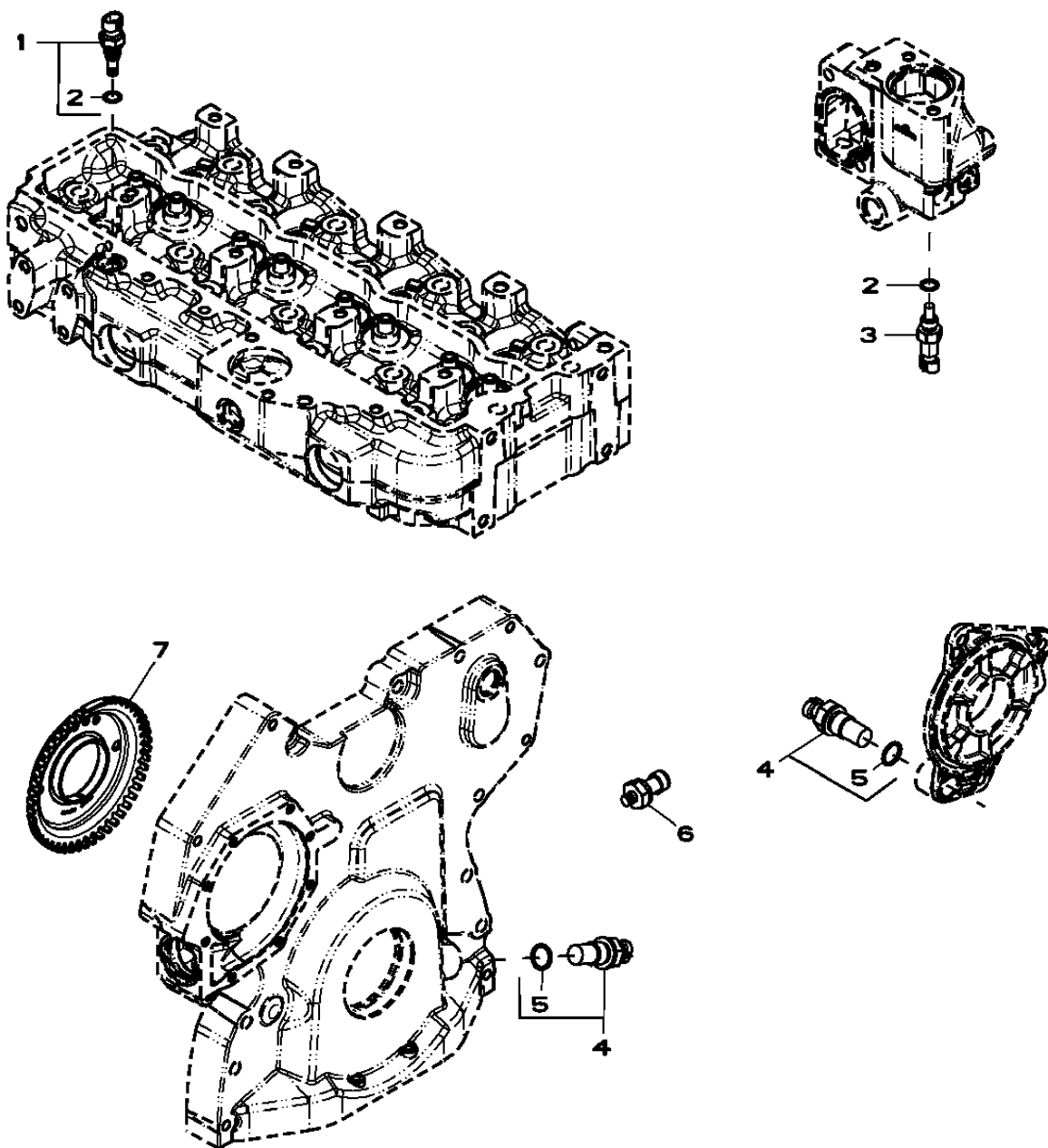
Oil Cooler



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	36118131	Screw, Hex Socket Head Cap M06-1.0 X 16	6	
2	36115251	Cooler, Oil	1	
3	36118693	O-Ring, 29.820 X 2.616 mm	2	
4	36106607	Gasket, Oil Cooler Housing	1	
5	23019334	Housing, Oil Cooler	1	
6	36114098	Plug w/ Gasket, M12-1.75 X 1.5	1	
7	36126019	O-Ring, 9.3 X 2.2 mm	1	
8	85473973	Kit, Oil Cooler Adapter Fitting	1	
9	36106615	Gasket, Oil Cooler Adapter	1	
10	36133403	O-Ring, 37.694 X 3.531 mm	1	
11	36118149	Screw, Hex Flange M08-1.25 X 20	1	
12	23110984	Screw, Hex Flange M08-1.25 X 65	2	
13	18963819	Screw, Hex Flange M08-1.25 X 100	2	
14	85470623	O-Ring, 15.3 X 2.20 mm	1	
15	36114080	Plug w/ Gasket, M18-2.5 X 1.5	1	

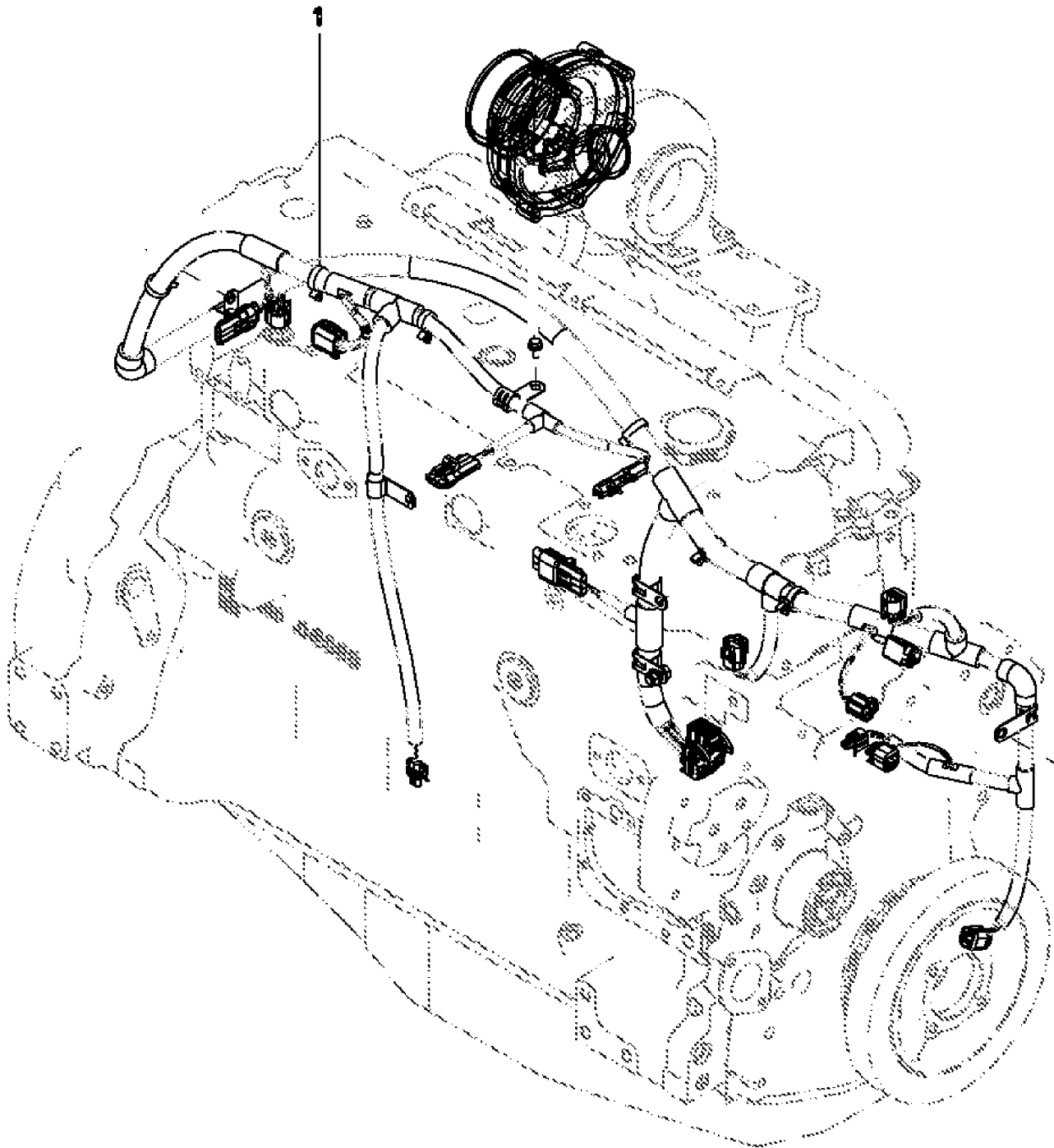
Sensors



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23230089	Thermocouple	1	
2	85470607	O-Ring, 11.30 X 2.20 mm	1	
3	22222590	Sensor, Coolant Temperature	1	
4	22222582	Sensor, Engine Speed	2	
5	85470631	O-Ring, 17.3 X 2.2 mm	2	
6	22222574	Sensor, Oil Pressure	1	
7	18964932	Wheel, Speed Sensor	1	

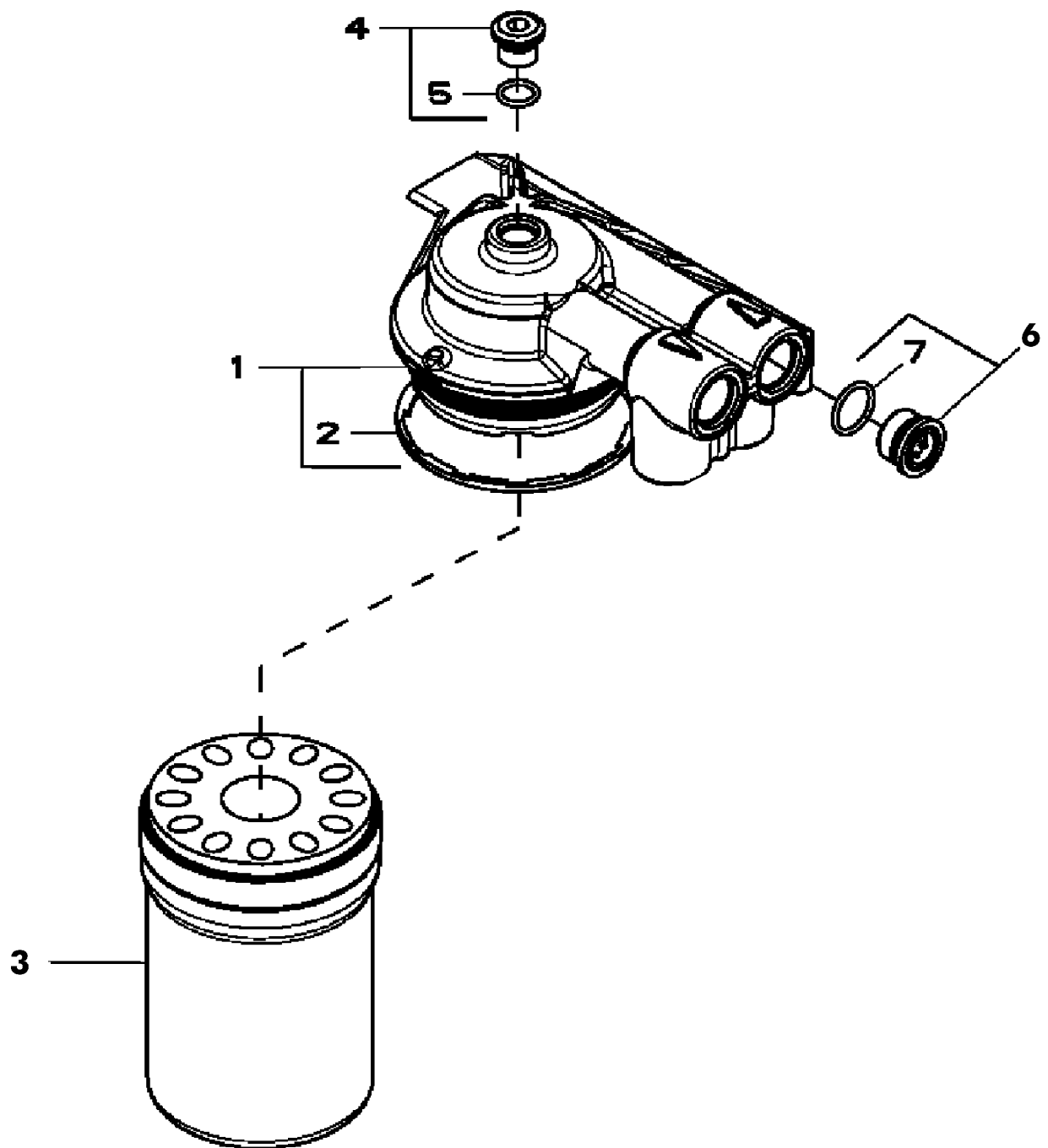
Engine Wiring Harness



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	23254998	Harness, Engine Wiring	1	

Oil Filter



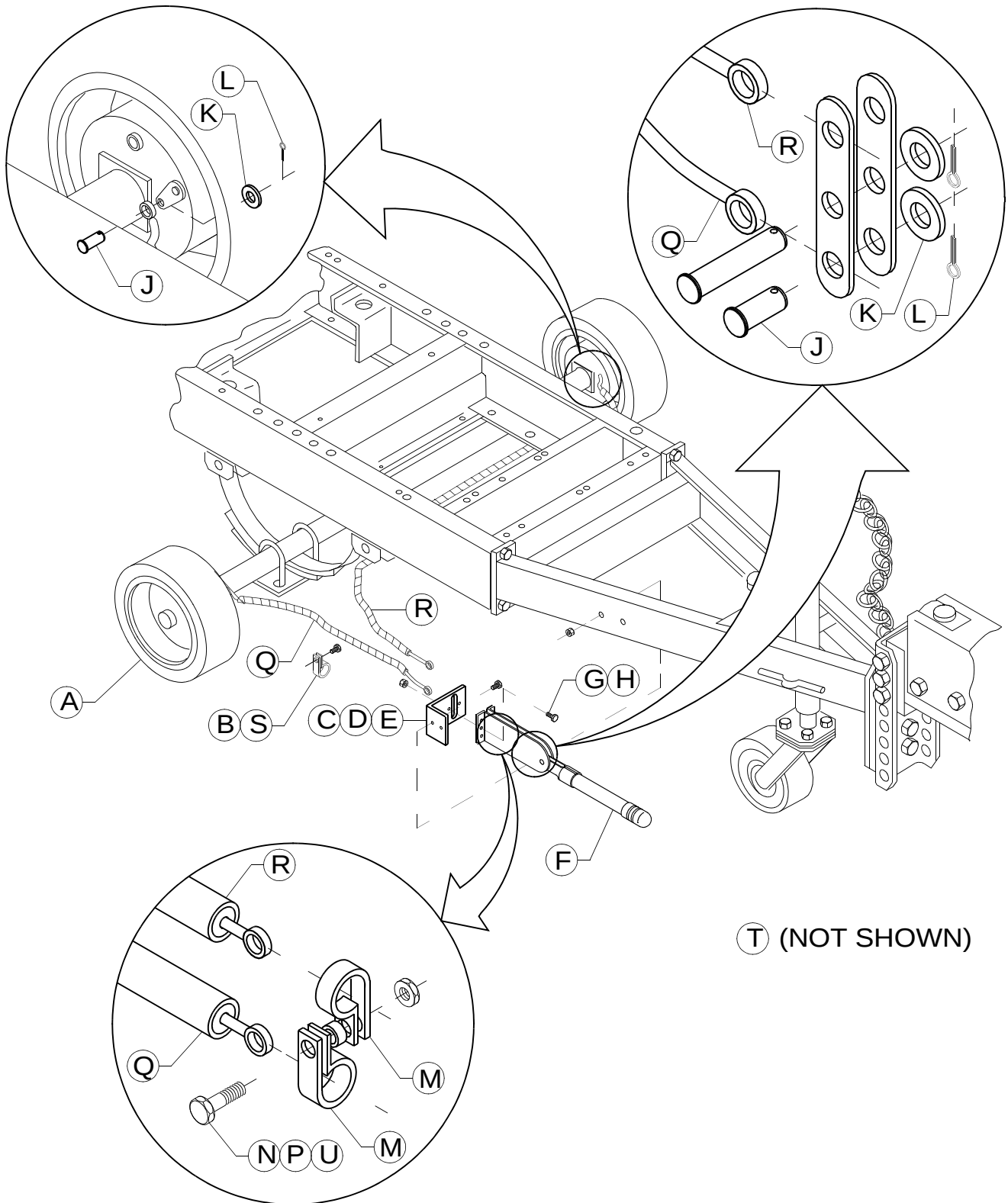
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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	24899551	Head, Oil Filter	1	
2	24899304	Seal, Oil Filter Head Dust	1	
3	22206148	Element, Oil Filter	1	
4	85471811	Plug w/ O-Ring, Drain M16-2.0 X 1.5	1	
5	85470615	O-Ring, 13.30 X 2.20mm	1	
6	23229933	Plug, Drain M22-2.5 X 1.5	2	
7	85470649	O-Ring, 19.30 X 2.20 mm	2	



Section D - OPTION PARTS

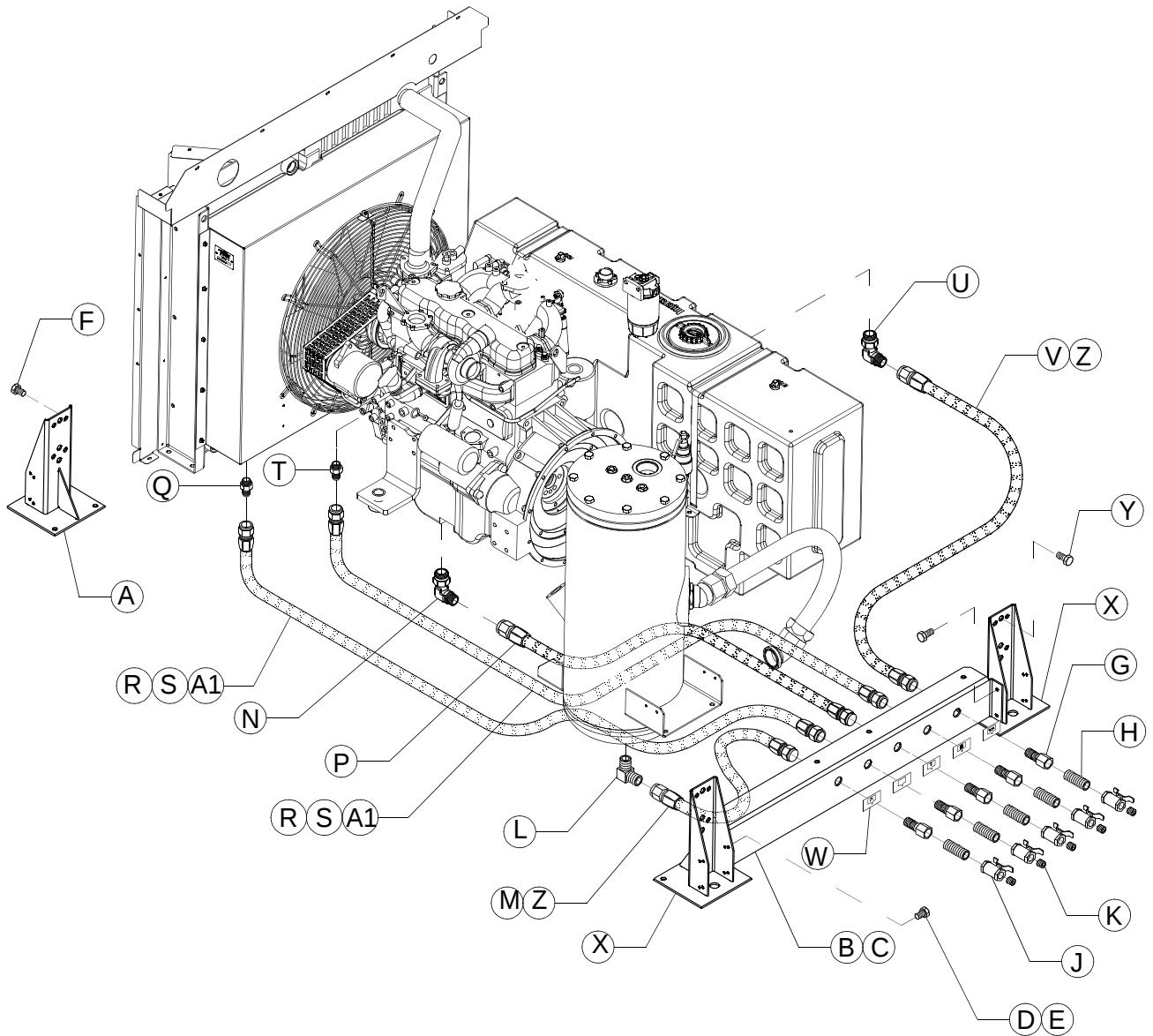
Parking Brake



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54625322	Brakes, Running Gear w/	1	
B	35134477	Clamp, Rubber Coated	2	
C	35116433	Bracket, Brake Lever	1	
D	96704309	Screw, Hex M10-1.5 X 35	2	
E	96735550	Nut, Hex M10-1.5	2	
F	35370055	Lever, Parking Brake	1	
G	96702659	Screw, Hex M08-1.25 X 25	2	
H	96735543	Nut, Hex M08-1.25	2	
J	36846780	Pin, Clevis .31" X .75"	4	
K	95934998	Washer, 3/8" Flat	4	
L	95928867	Pin, Cotter .09	4	
M	35126325	Clamp, Cable	2	
N	95943668	Screw, Hex 5/16"-18 X 1.75"	1	
P	35126358	Spacer	1	
Q	35589746	Cable Assembly, 78" Brake	1	
R	36503134	Cable Assembly, 108" Brake	1	
S	35300771	Screw, Tapping M06-1.0 X 20	1	
T	35253038	Clamp, Rubber Coated	3	
U	35252600	Nut, Locking 5/16"-18	1	

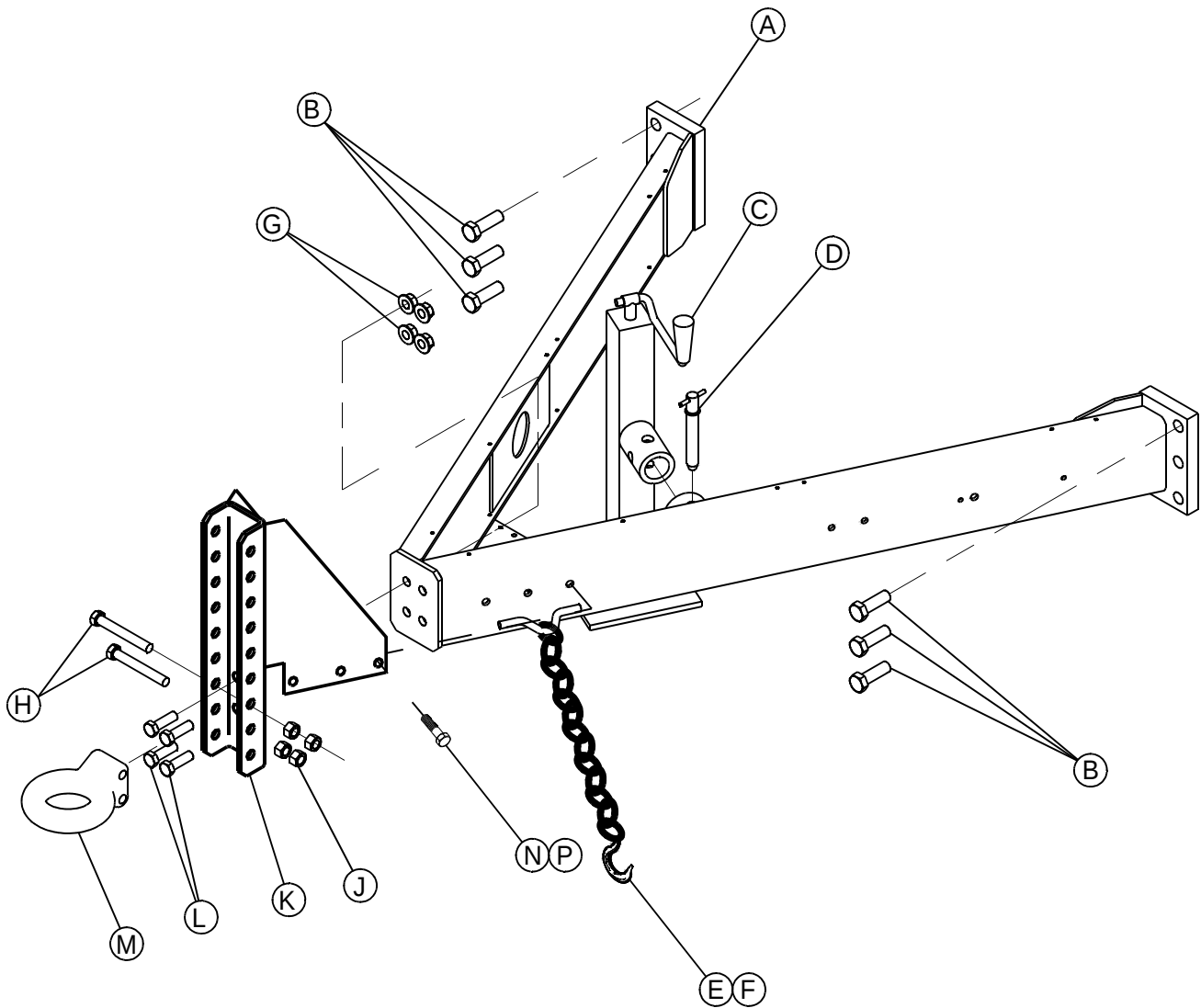
Central Drains



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36882355	Support, Rear	4	
B	22072318	Bracket, Central Drains	1	
C	36879302	Screw, Hex M16-2.0 X 50	2	
D	36889608	Screw, Hex Flange M12-1.75 X 25	4	
E	36881886	Nut, Hex Flange M12-1.75	4	
F	36888055	Screw, Hex Flange M12-1.75 X 30	8	
G	35287747	Bulkhead, Fitting	5	
H	95928040	Nipple, Close 3/4	5	
J	36777399	Valve, Ball 3/4 T-Handle	5	
K	95947149	Plug, Hex Counter Sink	5	
L	36885093	Elbow, -12 JIC O-Ring	1	
M	35323799	Hose Assembly, -12JIC X 27"	1	
N	36883395	Elbow, M18-1.5	1	
P	35290378	Hose Assembly, -12 JIC X 68"	1	
Q	35287895	Connector, 9/16-18 X -8 JIC	1	
R	35305499	Hose Assembly, -8 JIC X 112"	1	
S	35225077	Clamp, 9/16" Rubber Support	10	
T	35283134	Connector, 1/4 NPT X -8 JIC	1	
U	35294750	Elbow, 1.06 SAE X -12 JIC	1	
V	35376110	Hose Assembly, -12JIC X 54"	1	
W	54629977	Decal, Central Drain	1	
X	22198238	Support, Front	1	
Y	36763670	Screw, Hex M20-2.5 0 X 60	4	
Z	35225085	Clamp, Hose 15/16"	3	
A1	35365774	Reducer, 1/2" Tube X3/4"	2	

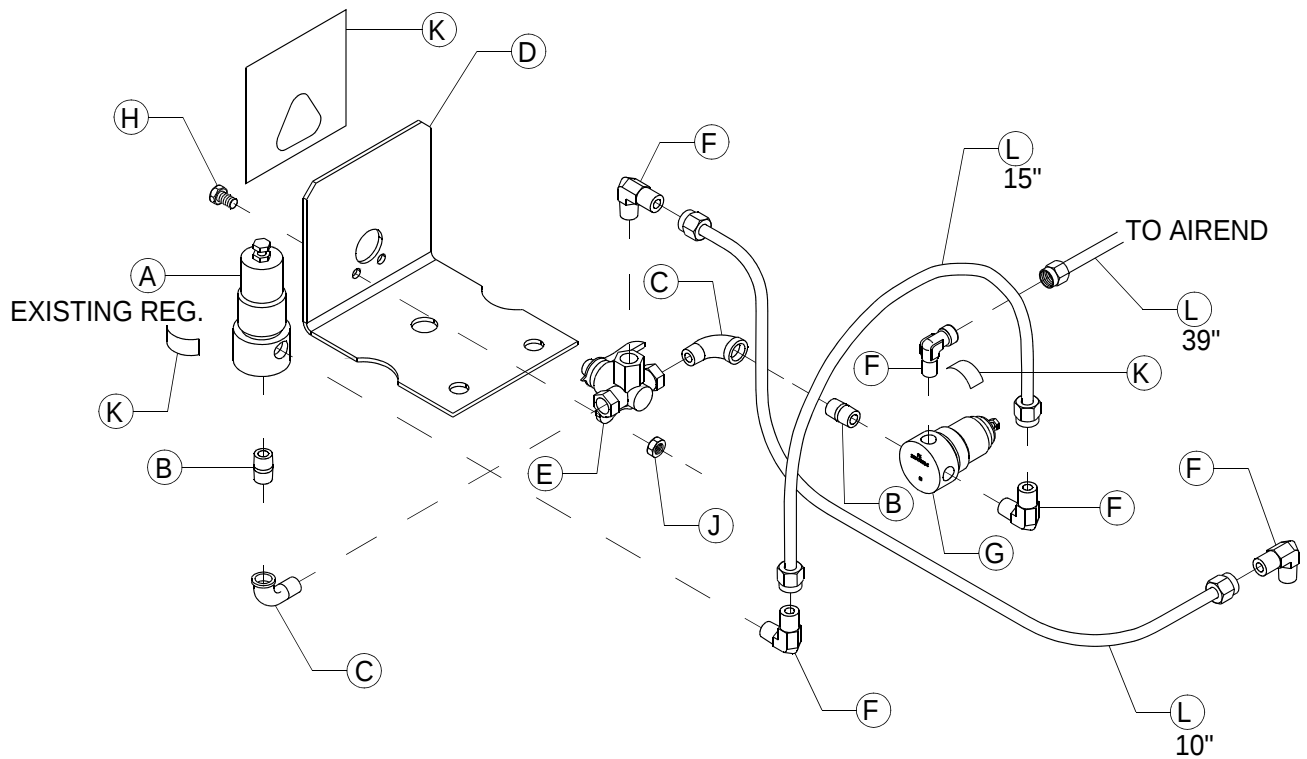
Adjustable Height Drawbar



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54767280	Drawbar	1	
B	36763670	Screw, Hex M20-2.5 0 X 60	6	
C	54443577	Jack, Screw	1	
D	35609544	Pin, Quick Release	1	
E	35610377	Link, Coupling	2	
F	35372432	Chain /Hook	2	
G	36879211	Nut, Hex Flange M16-2.0	4	
H	35376094	Screw, Hex M16-2.0 X 120	2	
J	96701750	Nut, Hex M16-2.0	4	
K	36882017	Channel, Pintel Mounting	1	
L	39179072	Screw, Hex M16-2.0 X 50	4	
M	35605187	Eye, Pintel	1	
N	35255758	Screw, Hex Lock 1/2-13 X 1"	6	
P	35252618	Nut, Hex Lock Flange 1/2-13	6	

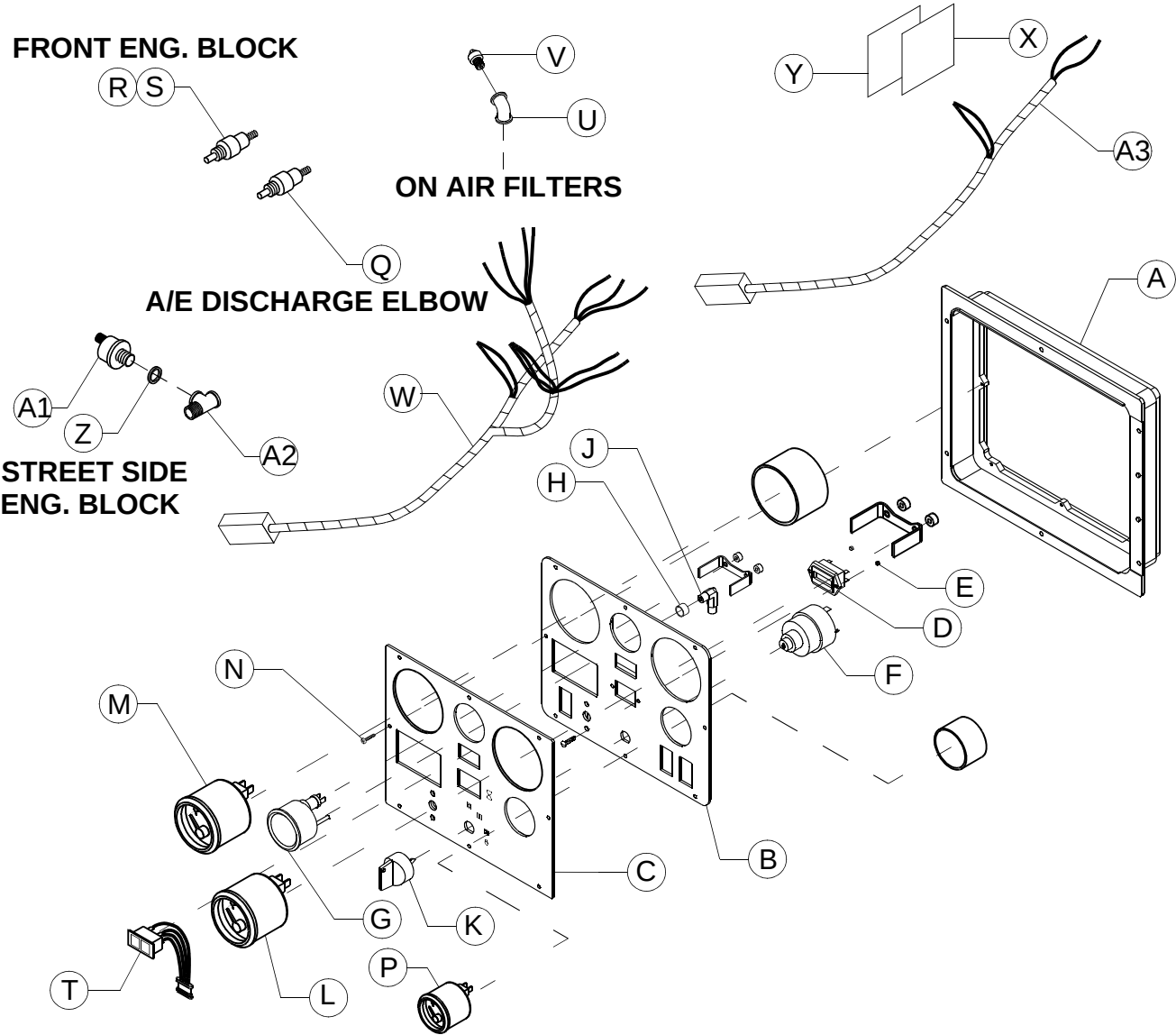
Dual Pressure Regulation



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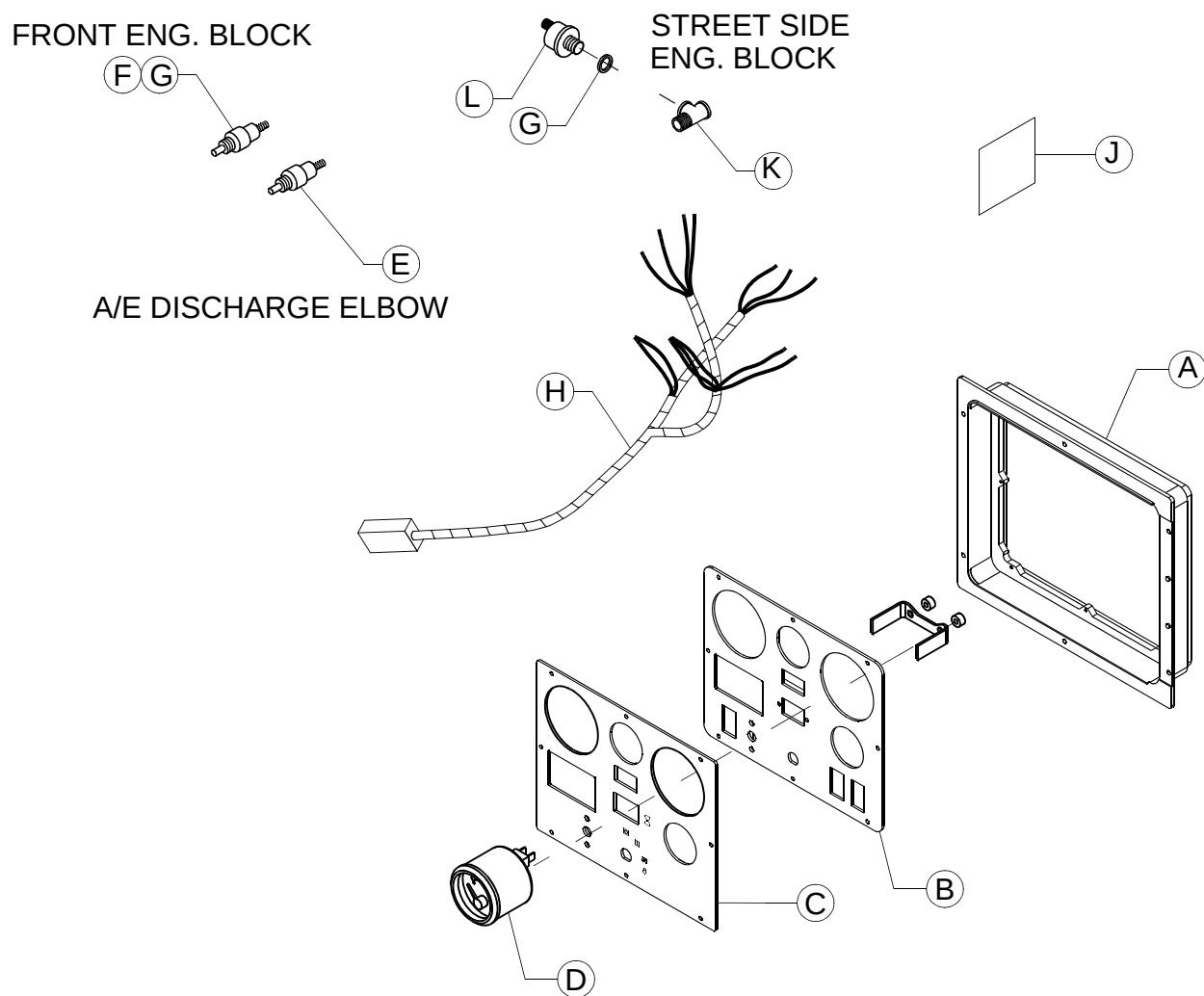
ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	36896892	Valve, Pressure Regulator 200 PSI	1	Low Pressure See Length Above
B	95667341	Nipple, Close 1/4" NPT X 7/8"	2	
C	95944666	Elbow, Street 1/4" NPT	2	
D	36888881	Bracket, Dual Pressure	1	
E	36864684	Valve, 3-Way	1	
F	35369354	Elbow, Male 1/4" NPT X 3/8" Tube	5	
G	36847952	Valve, Pressure Regulator	1	
H	36769024	Screw, Hex M06-1.0 X 20	2	
J	96703806	Nut, Hex M06-1.0	2	
K	54773791	Decal, Dual Pressure	1	
L	35356484	Tube, 3/8" Synflex	~	
	35387919	Kit, Low Pressure Regulator Repair	AR	

Full Gauge Instrument Panel wo/ Start-Run Valve



ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54749601	Frame, WW Instrument Panel	1	
B	22171680	Panel, Instrument	1	
C	22171698	Decal, WW Instrument Panel	1	
D	22054175	Meter, Electric / Mechanical Hour	1	
E	22054159	Nut, Plastic #4-40	2	
F	22127385	Switch, Ignition	1	
G	36891216	Gauge, 250 PSI Pressure	1	
H	95935599	Coupling, 1/8 NPT X .75"	1	
J	35370386	Elbow, 1/8 NPT X 3/8 Tube	1	
K	22134118	Knob Assembly	~	
L	22255046	Gauge, 4 in 1	1	
M	22055883	Tachometer	1	
N	22070494	Screw, Pan Head #8-32 X 5/8"	8	
P	22050991	Gauge, Fuel Level	1	
Q	35367218	Sender, Discharge Temperature	1	
R	35372457	Sender, Engine Temperature	1	
S	35278571	O-Ring	1	
T	22172423	Module, 2 Light Warning	1	
U	95956199	Elbow, Street 1/8" NPT X 45°	1	
V	36847838	Switch, Vacuum	1	
W	22251896	Harness, Option Wiring	1	
X	22530748	Laminate, Option Wiring Diagram	1	
Y	22530797	Laminate, AFRI Option Wiring Diagram	1	
Z	35278571	O-Ring	1	
A1	36780608	Sender, Oil Pressure	1	
A2	39127287	Tee, 1/8" NPT Street	1	
A3	22251904	Harness, Air Filter Restriction	1	

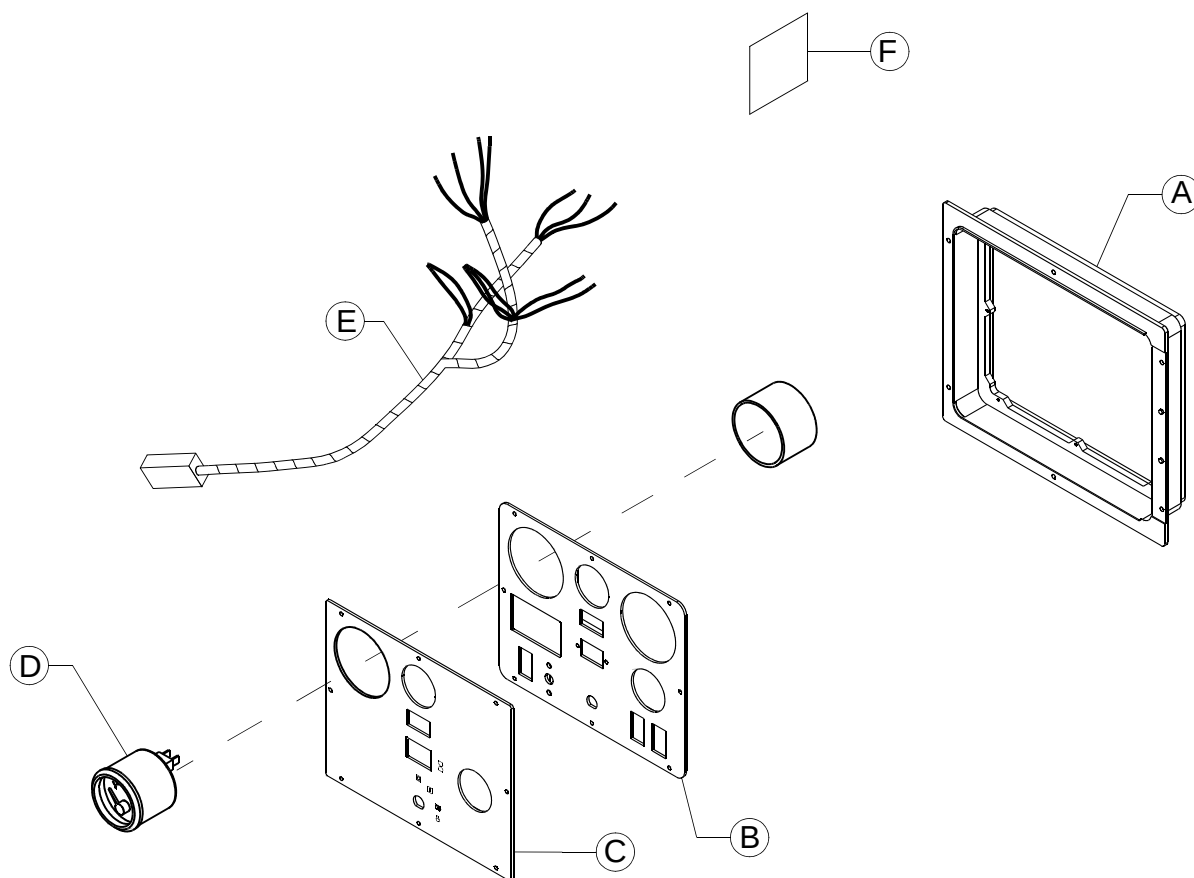
4 in 1 Gauge Panel



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54749601	Frame, WW Instrument Panel	1	
B	22171680	Panel, Instrument	1	
C	22171698	Decal, WW Instrument Panel	1	
D	22255046	Gauge, 4 in 1	1	
E	35372457	Sender, Engine Temperature	1	
F	35367218	Sender, Discharge Temperature	1	
G	35278571	O-Ring	1	
H	22251896	Harness, Option Wiring	1	
J	22530748	Laminate, Option Wiring Diagram	1	
K	39127287	Tee, 1/8" NPT Street	1	
L	36780608	Sender, Oil Pressure	1	

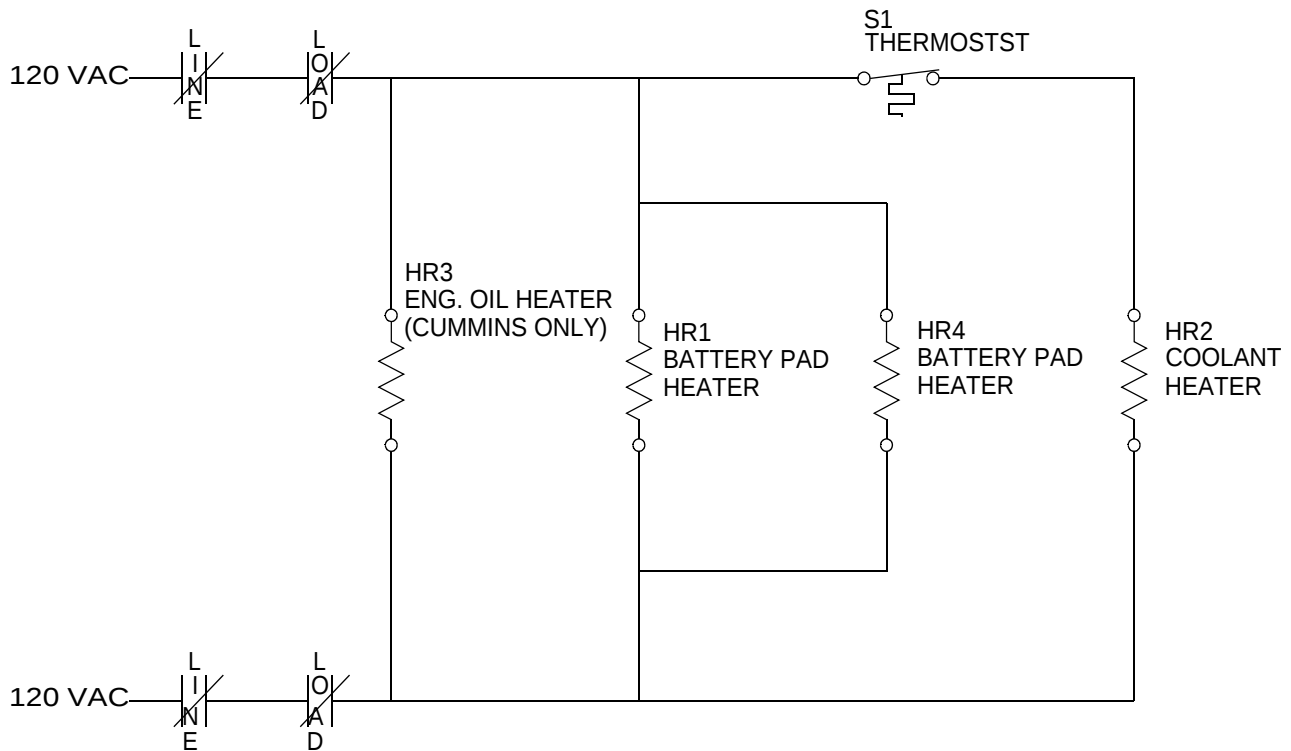
Tachometer Panel



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
A	54749601	Frame, WW Instrument Panel	1	
B	22171680	Panel, Instrument	1	
C	22171698	Decal, WW Instrument Panel	1	
D	22055883	Tachometer	1	
E	22251896	Harness, Option Wiring	1	
F	22530748	Laminate, Option Wiring Diagram	1	

Block Heater



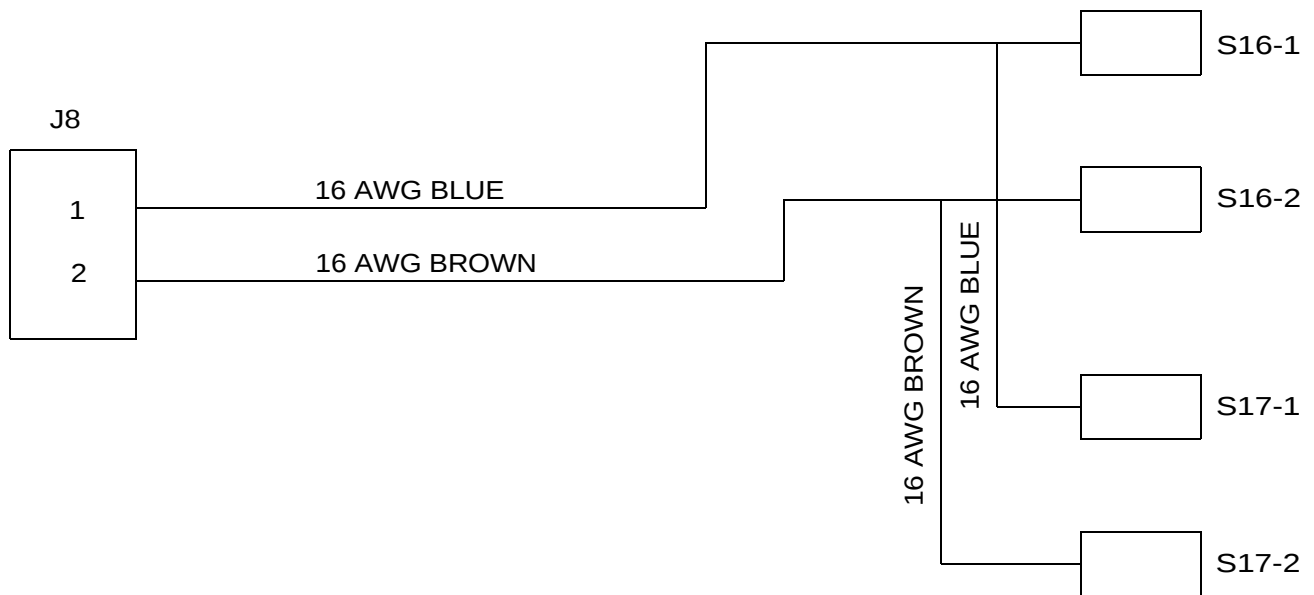
NOTE: REFER TO MODEL FOR LIST OF OPTIONAL HEATERS AVAILABLE

	P100-P160	P100-P160	J DEERE P175-XP185	J DEERE P250 - P600	CUMMINS P250-P375 E25-E50	KUBOTA L5; L6-L8	CUMMINS VHP400- P600
HR1	~	~	36920387	22065635	36920387	36920387	36920379
HR2	36843563	35379221	36874659	35379221	36898971	36898252	36898971
HR3	~	~	~	~	~	~	~
HR4	~	~	~	~	~	~	36920387
S1	~	~	36858751	~	36858751	~	36858751
W1	~	~	36920361	~	36920361	36898245	36920361

	CUMMINS HP600- XP825	J DEERE HP600- XP825	CAT XHP600- XHP900	CUMMINS VHP825- XP1050	CAT VHP750- XP1000	CUMMINS HP100- P1600	
HR1	36920411	36920411	36920338	36920411	36920411	36920338	
HR2	36874642	36874659	36871325	36852614	36871283	36882520	
HR3	36874675	~	~	36869691	~	36882512	
HR4	36920429	36920429	36920346	36920429	36920429	36920346	
S1	36858751	36858751	36858751	36858751	36858751	36858751	
W1	36920437	36920403	36871317	36852598	36871275	36920320	

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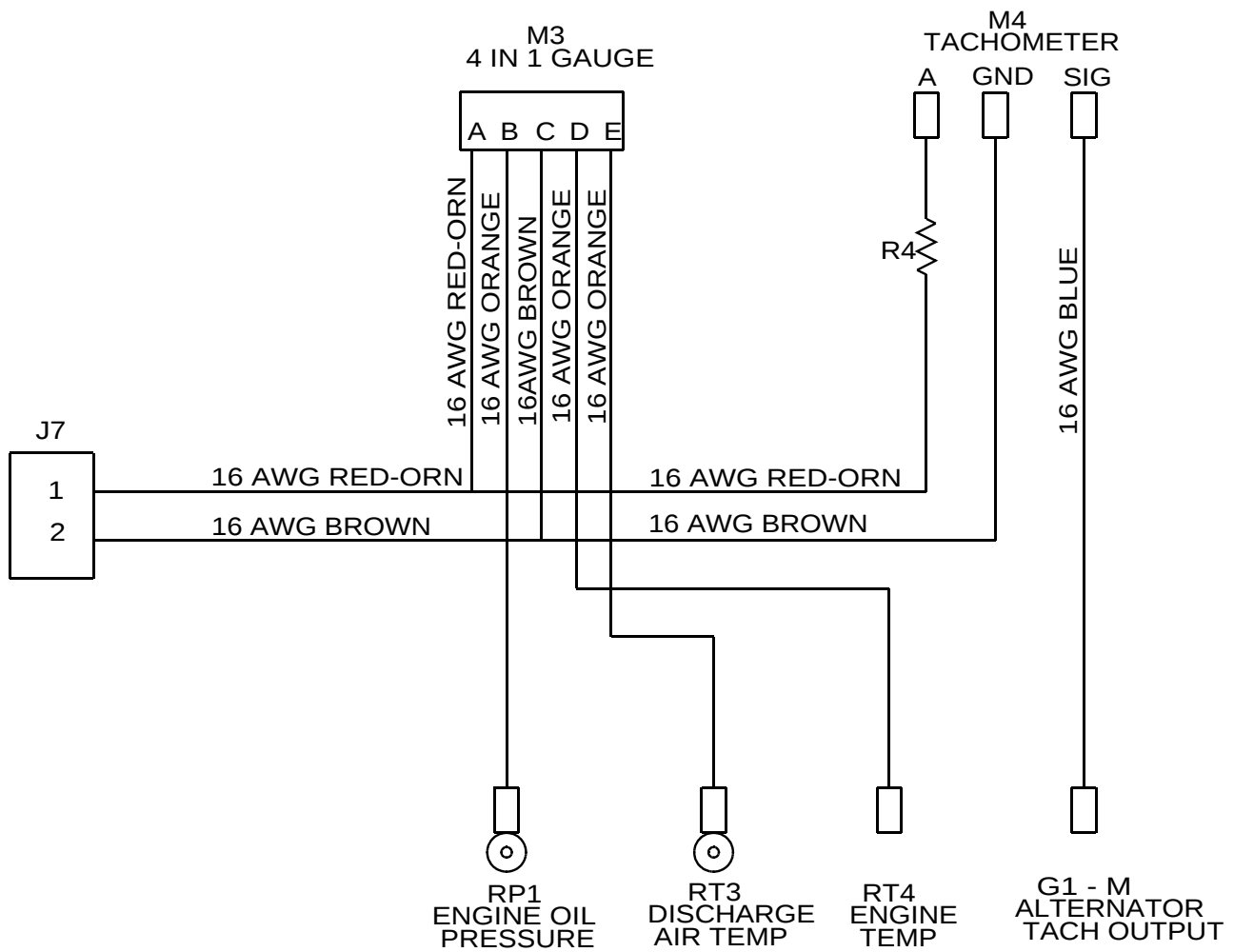
AFRI Wiring Schematic



23209265_01/08_A

ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
S16	36847838	Switch, AFRI Vacuum	1	
S17	36847838	Switch, AFRI Vacuum	1	
W4	22251904	Harness, AFRI Option Wiring	1	

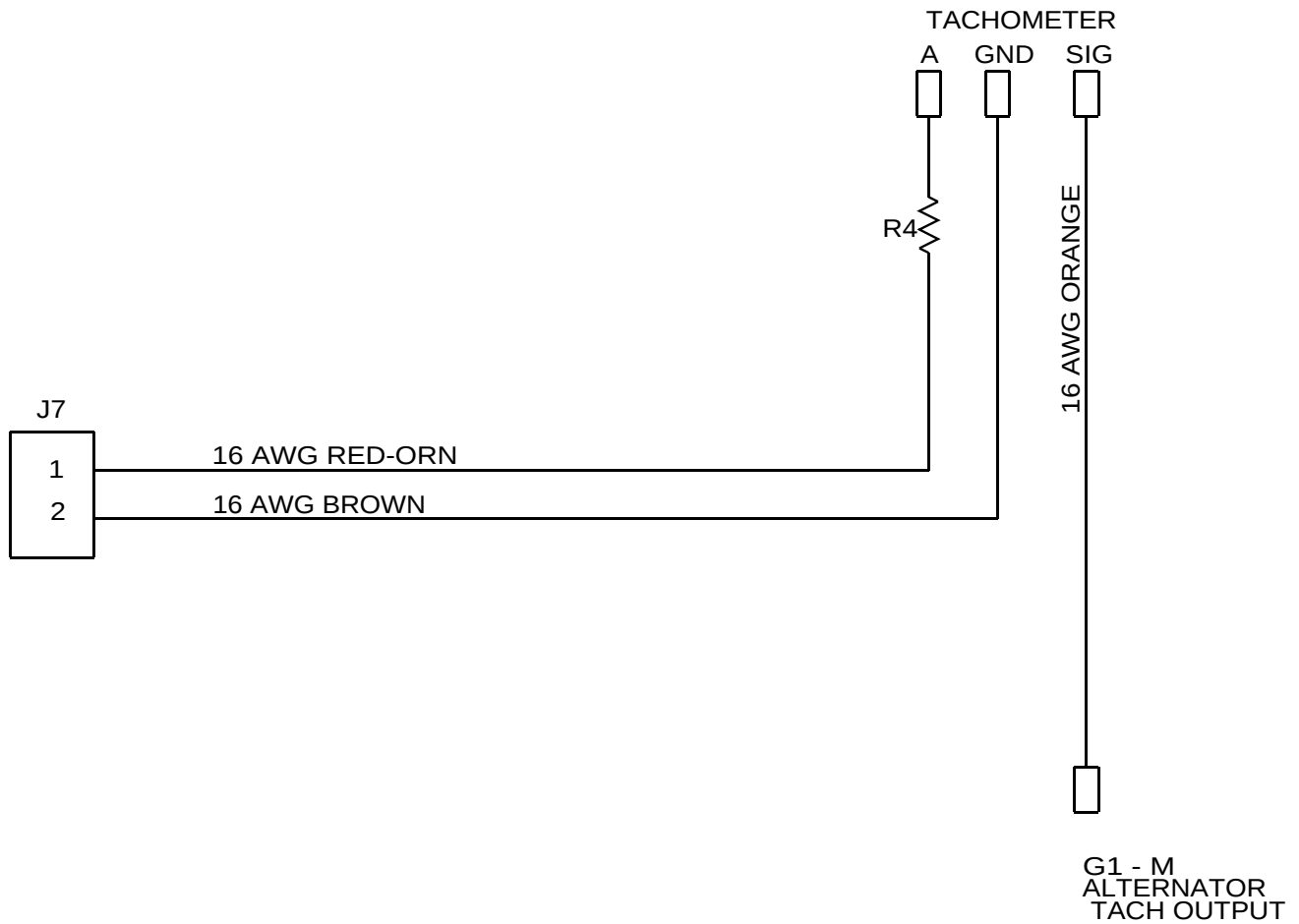
Option Wiring Schematic



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
M3	22255046	Gauge, Fuel Level	1	
M4	22055883	Tachometer	1	
RP1	36870608	Sender, Oil Pressure	1	
RT1	54593843	ender, Discharge Temperature	1	
RT2	35372457	Sender, Engine Temperature	1	
W3	22251896	Harness, Option Wiring	1	

Tachometer Wiring Schematic



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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
M4	22055883	Tachometer	1	
W5	22261465	Harness, Tachometer Wiring	1	

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18963496	C-19	22119168	B-47	22218457	B-28	22899171	C-2
18963595	C-15	22119176	B-47	22218622	B-28	22915276	B-27
.....	C-21	22119184	B-47	22221022	B-41	22916720	B-63
18963819	C-27	22119192	B-43	22221030	B-41		B-64
18964932	C-28	22124093	B-11	22222574	C-28	22926737	B-39
18965079	C-5	22127385	B-51	22222582	C-28	22926745	B-41
18969410	C-9		B-52	22222590	C-28	22929095	B-11
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.....	C-20	22128490	B-48	22227086	B-61	22939482	B-45
18969428	C-11	22134118	B-51	22247340	B-17	22939656	B-57
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