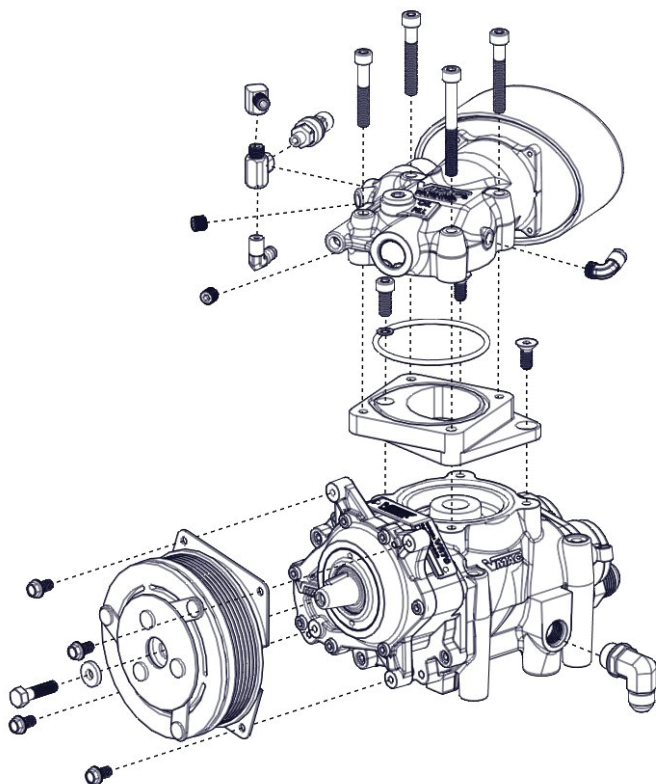




Illustrated Parts List for VMAC System

DM00014

2019 – 2024 Ram 3500 – 4500 Chassis Cab
6.7 L Cummins Diesel with PTO

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Illustrated Parts List for VMAC System DM00014

Ram 2019-2024, 3500 - 4500 Chassis Cab
6.7L Cummins Diesel

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NOTE: Drawings are not to scale.

Document 1930400

Changes and Revisions

Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
E	ECN 21-199	CAM	GJM	N/A	DB	LPH	09 Dec 2021
F	ECN 23-203	KRM	MRH	N/A	RDB	LPH	13SEP2023
G	ECN 24-194	IRC	GJM	N/A	JGT	LPH	05DEC2024

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1. Kit Pack List

Item #	Part #	Qty	Description
1	P170062	1	ASSY, COMP, VR70, 3.21, SAE-B, 13T
2	8100029	1	KIT, PTO, RAM 6.7L
3	1720723	1	TUBE, INTAKE, COMP SIDE
4	1720724	1	TUBE, INTAKE, FILTER SIDE
5	1720734	1	TUBE, EXTENSION, INTAKE
6	1700650	96.0	HOSE, FLEXIBLE, AIR INTAKE 2"
7	9500030	1	ASSEMBLY, AIR FILTER
8	4800819	1	ASSY, REGULATOR W/ BRACKET
9	1700030	45.0	HOSE, PUSH ON 250 PSI, 10MM ID
10	9200430	1	TANK, VR70 DRESSED INT OIL FILTER
11	4800824	1	ASSEMBLY, COOLER, 2500-3500
12	1201073	2	BRACKET, AOST MOUNT
13	1201079	1	BRACKET, AOST MOUNT, FRONT
14	1201080	1	BRACKET, AOST MOUNT, REAR
15	2200105	2	CLAMP, MOUNTING BRACKET C, 6
16	2200113	2	STRAP, TANK FLAT BAR, BACKING STRAP
17	3801346	1	FASTENER PACK, DM00014
18	1201063	1	BRACKET, COOLER
19	1752099	1	HOSE, CRIMPED, 1/2" X 99"
20	1752068	1	HOSE, CRIMPED, 1/2" X 68"
21	1772089	1	HOSE, CRIMPED, 3/4" X 89"
22	1771076	1	HOSE, CRIMPED, 3/4" X 76"
23	1770020	1	HOSE, CRIMPED, 3/4" X 20"
24	1770033	1	HOSE, CRIMPED, 3/4" X 33"
25	3550848	1	CONTROL BOX, DTM
26	3551037	1	INTERFACE CABLE, DTM, RAM
27	3560258	1	VR DTC, U70 RAM 6.7D 2019+
28	1700666	1	HOSE, RAD
29	1710889	1	HOSE, RADIATOR, 2"
30	3550932	1	ASSY, PTO INDICATOR PANEL
31	3550930	1	HARNESS, 250W INVERTER
32	3551036	1	HARNESS, PRESS SWITCH SOL, 272 PTO
33	A700094	1	OIL, VR, 4L, HIGH PERFORMANCE
34	A700091	1	OIL, VR, 1L, HIGH PERFORMANCE
35	1930283	1	MANUAL, OWNERS, DTM
36	1930399	1	MANUAL, INSTALLATION, DM00014
37	1930400	1	ILLUSTRATED PARTS LIST, DM00014
38	4800814	1	SYS ID & OP INSTR, DTM, GENERIC
39	3810102	1	ELEC PACK, U70/150, MX64 PEDAL

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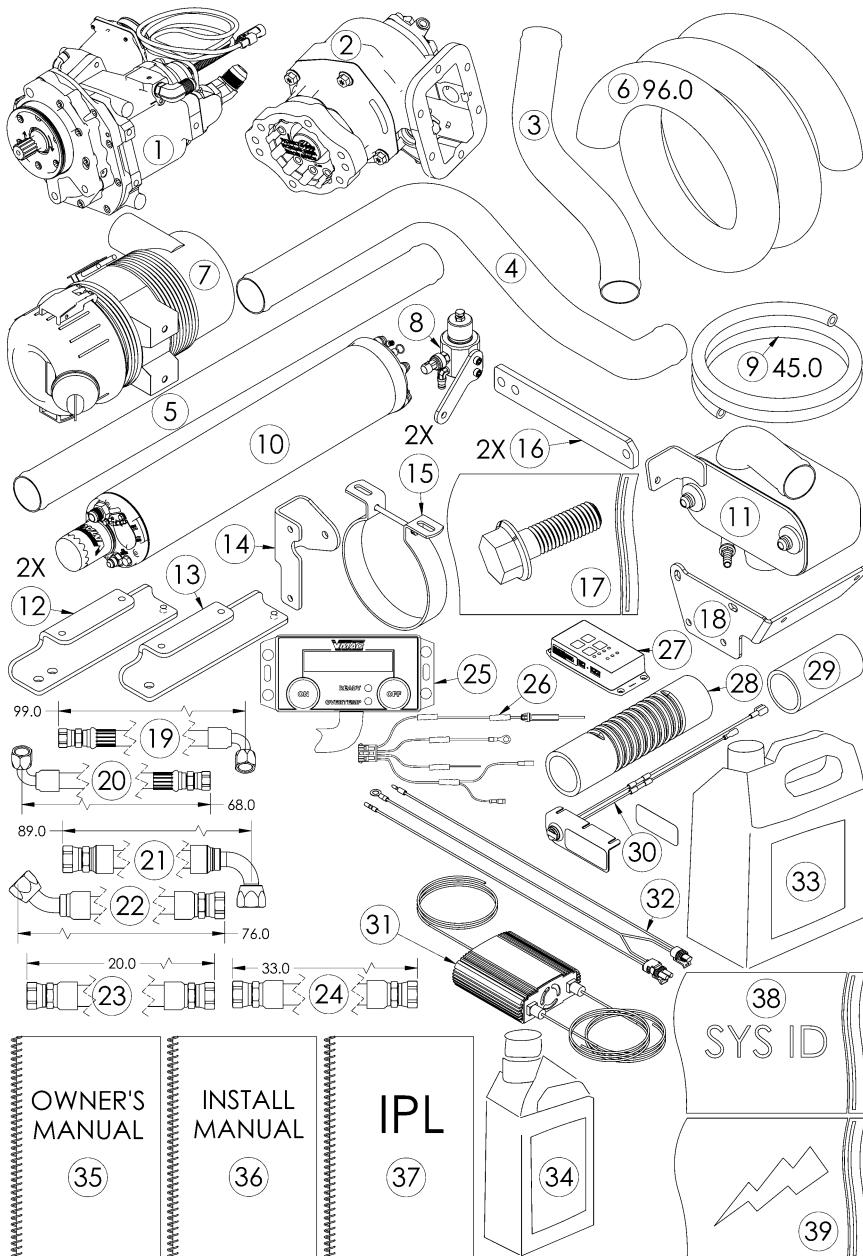


Figure 1 - Kit Pack List

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2. Fastener Pack, 3801346

Item #	Part #	Qty	Description
1	3801304	1	FAST PACK, PTO FLANGE
1.1	8100019	1	FLANGE, ADAPTER, PTO
1.2	1510223	1	BOLT, HHCS NC G8 PL, 1/2 X 3 1/2
1.3	1520540	2	BOLT, HHCS, FLHD, M10 X 1.50 X 55
1.4	1530541	3	BOLT, FSCS, PL, NC, 1/2 X 1-1/2
2	3801320	1	FAST PACK, OIL FILL
2.1	4900162	1	TEE, #12FJIC-#12MJIC-#12MJIC
2.2	4900234	1	PLUG, #12ORB, EXT HEX, VITON
2.3	1520591	1	BOLT, HHCS, M8-1.25 X 25, G10.9 FL PL
2.4	3200570	1	FTG, 12 FORB - 12 MJIC, OIL FILL
2.5	2200083	2	CLAMP, C R.I., 1 1/4
2.6	1700584	12.0	SPIRAL WRAP, 1" OD, BLACK
2.7	4401124	1	LABEL, WARNING, OIL FILL
2.8	1560512	1	NUT, FLANGE PL, M10 X 1.5
3	3801305	1	FAST PACK, AIR INTAKE
3.1	3600113	1	RAIN HAT, AIR CLEANER STD
3.2	2200027	10	CLAMP, HOSE HS32
3.3	1700617	3@3.0	HOSE, RADIATOR, 2" ID
3.4	1201054	1	BRACKET, SUPPORT, AIR INTAKE
3.5	1540209	1	BOLT, SHCS, M10 X 1.5 X 35
3.6	1570044	1	WASHER, ALLOY PL SAE, 3/8
3.7	2200147	1	CLAMP, C R.I., 2"
4	3801315	1	FAST PACK, COOLER
4.1	1520619	2	BOLT, HHCS, FL, PL, M8X1.25X90 G10.9
4.2	1560515	2	NUT, M8 X 1.25 FL PL
4.3	1520144	2	BOLT, HHCS G8.8, M10 X 1.5 X 12
4.4	2200249	4	CLAMP, HD GEAR, 2.25-2.75
4.5	4300097	1	PIPE FTG, NIPPLE, 1/4 X 6
4.6	5000192	1	CONNECTOR, BRASS, 1/4NPT - 3/8 BARB
4.7	2200001	2	CLAMP, HOSE MH-6
4.8	5000191	1	TEE, EXTRUDED, 1/4
4.9	5000061	1	PLUG, BRASS HEX SOCKET, 1/4
4.10	5000194	1	BUSHING, BRASS, 1/2 X 1/4
4.11	2200213	3	TIE, NYLON, BLACK, 30"
4.12	2200049	5	TIE, NYLON MD, 14"
4.13	1201062	1	BACKING STRAP, COOLER
5	3801310	1	FAST PACK, INVERTER MOUNT
5.1	1201057	1	BRACKET, INVERTER
5.2	2200049	2	TIE, NYLON MD, 14"

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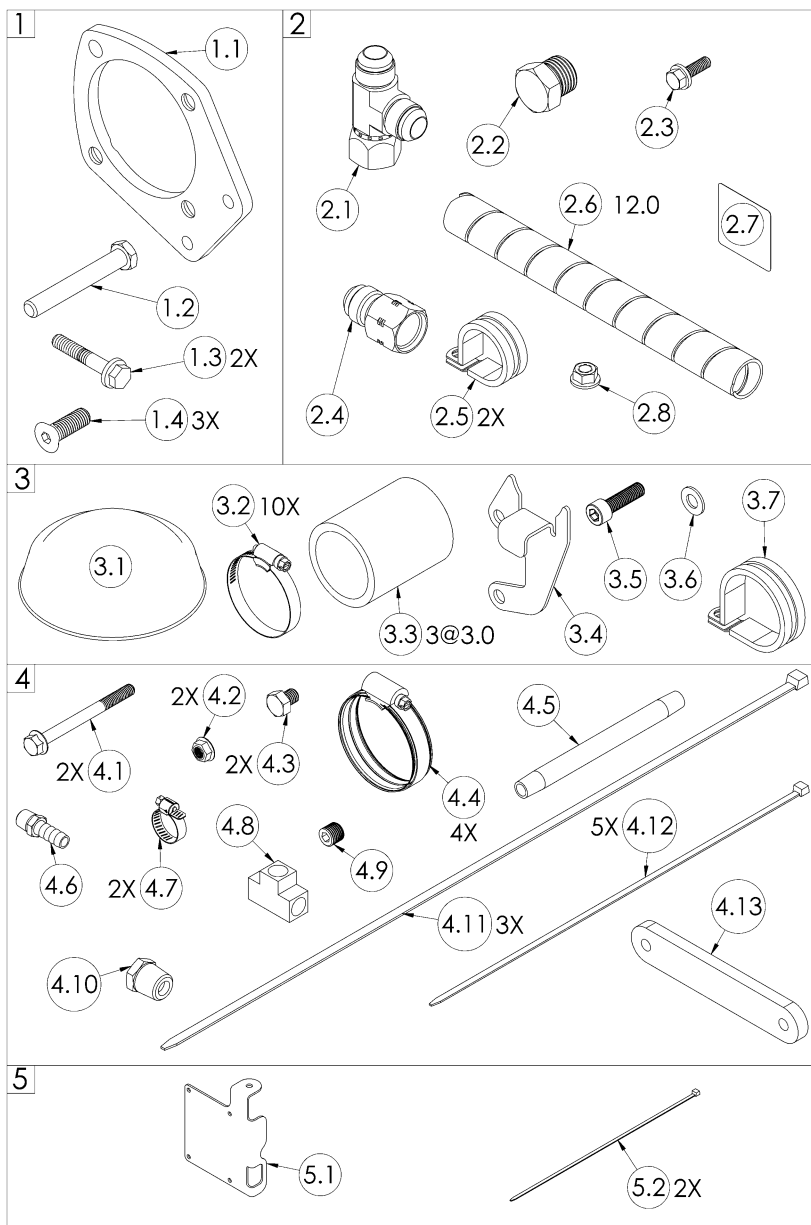


Figure 2 – Fastener Pack

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Fastener Pack, 3801346 (continued)

6	3801334	1	FASTENER PACK, TANK MOUNT
6.1	1520571	2	BOLT,HHCS FLHD PL, M10 X 1.5 X 30
6.2	1570503	1	WASHER, SNUBBING
6.3	1400357	1	SPACER, BRACKET, TANK
6.4	1510539	2	BOLT, HHCS NC FUL-PL 3/8 X 6 IN
6.5	1510538	2	BOLT, HHCS NC FUL-PL3/8 X 4 1/2 IN
6.6	1570009	4	WASHER, SPLIT LOCK, 3/8
6.7	1550504	2	NUT, FLANGE LOCK NC, CASE HARDN 3/8
6.8	1510003	4	BOLT, HHCS NC G8 PL, 5/16 X 1
6.9	1550084	4	NUT, NYLOCK NC PL, 5/16
6.10	1570067	4	WASHER, SAE, 5/16
7	3801307	1	FAST PACK, TEFLON HOSE
7.1	1700570	47.0	TUBE, TEFLON, PTFE, 1/4"OD X 3/16"ID
7.2	1700581	45.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
7.3	1700571	87.0	TUBE, TEFLON,PTFE, 3/16"OD X 1/8"ID
7.4	1700581	85.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
7.5	1700055	62.0	HOSE, BRAKE BLACK, 1/4
7.6	1700581	60.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
7.7	2200039	10	TIE, NYLON MD, 7"
8	3800606	1	FAST PACK, CONTROL BOX
8.1	1500499	4	SCREW, PHILLIPS PH, 8 – 32 X 3/8
8.2	1550262	4	NUT, 8-32
8.3	1570163	4	WASHER, FLAT, 3/16
9	3801309	1	FAST PACK, HOSE ROUTING
9.1	1700605	10.0	WRAP, HEAT PROTECTION, 1/2"
9.2	1700645	42.0	WRAP, HEAT PROTECTION, 1"
9.3	1700647	24.0	WRAP, HEAT PROTECTION, 3/4"
9.4	3200575	1	BOLT, ADAPTER, M12 X M6
9.5	1540549	1	BOLT,SHCS,M6 X 1 X 18,PLATED,G12.9
9.6	1570038	1	WASHER, FLAT SAE, 1/4
9.7	2200083	2	CLAMP, C R.I., 1 1/4
9.8	1520591	1	BOLT,HHCS, M8-1.25 X 25,G10.9 FL PL
9.9	1560515	1	NUT, M8 X 1.25 FL PL
9.10	2200018	10	TIE, NYLON MD, 11
9.11	4900062	1	FTG, STR, #12MJIC-#12MJIC

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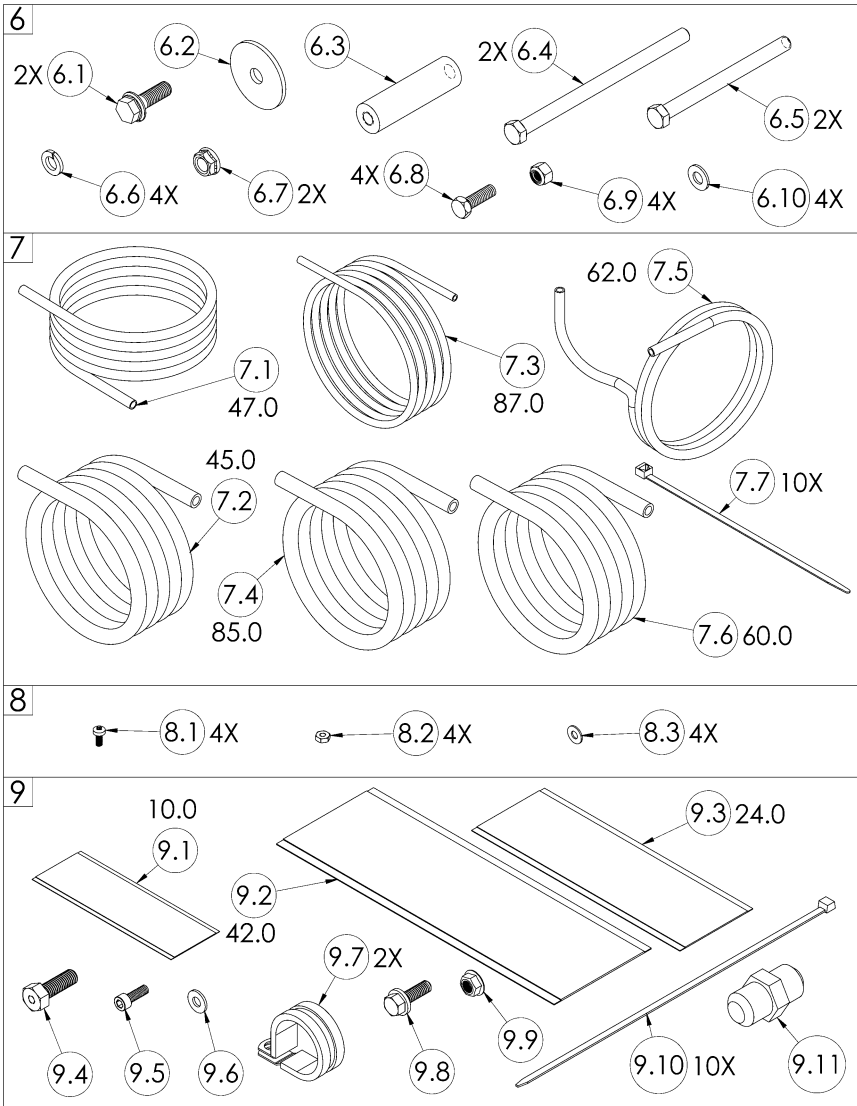


Figure 3 - Fastener Pack (cont.)

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3. Compressor Assembly, P170062

Item #	Part #	Qty	Description
1	9200620	1	ASSY, INLET, 2.0 INTAKE, NO REG
2	1540530	2	BOLT,SHCS,M8 X 1.25 X 55, G12.9 PLT
3	1540550	1	BOLT,SHCS,M8 X 1.25 X 50, G12.9 PLT
4	1540544	1	BOLT, SHCS, M8 X 1.25 X 75
5	5000158	1	ELBOW,BRASS 45 DEG NPT-POLY 1/8-1/4
6	1540526	3	BOLT, SHCS, M8 X 1.25 X 20, GR12.9
7	9200615	1	ADAPTER, INLET VALVE
8	5830004	2	O-RING, VITON, 3 1/8 ID X 1/8
9	1570502	1	WASHER, M8, COPPER SEALING
10	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
11	1540549	7	BOLT,SHCS,M6 X 1 X 18,PLATED,G12.9
12	3550846	1	HEATER, AIR END, ASSY
13	4900280	1	FTG, 45, #12MORB-#12MJIC, VITON
14	5830122	1	O-RING, VITON, 3 3/4 ID X 3/32
15	9200510	1	CAP, DISCHARGE, VR70
16	3550682	1	PROBE, ASSY, THERMISTOR, SHORT
17	4900201	1	ELBOW, STL, #8 MJIC X #6 MORB

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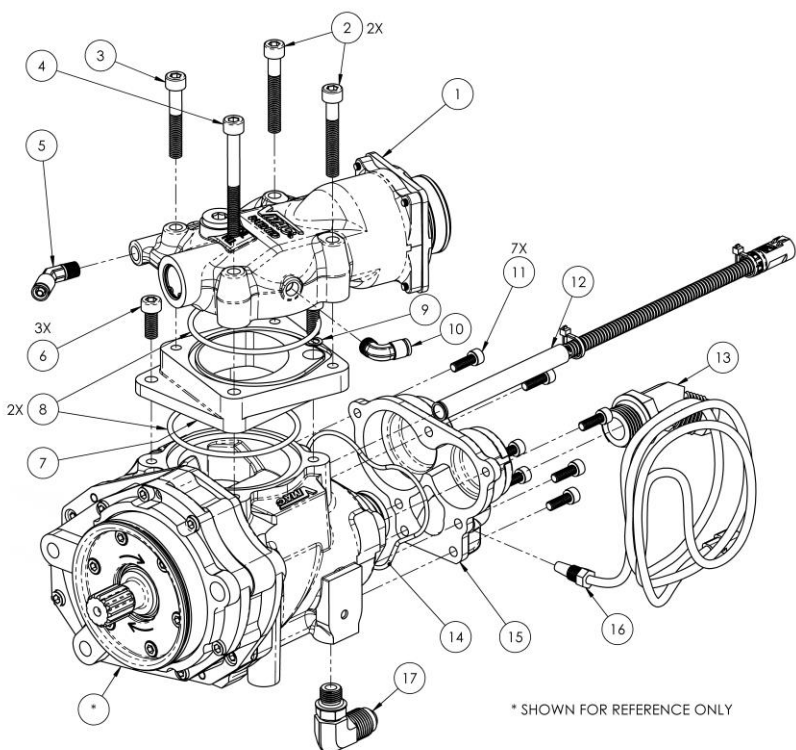


Figure 4 - Compressor Assembly (P170062)

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4. Inlet Valve Sub Components, 9200620

Item #	Part #	Qty	Description
1	4900045	1	PLUG, #8ORB, INTERNAL HEX
2	5830070	1	O-RING, VITON, 2 9/16 ID X 3/32
3	5830130	1	O-RING, VITON, 1 3/8 ID X 3/16
4	5830002	1	O-RING, VITON, 2 3/8 ID X 3/32
5	3200545	1	ADAPTER, INLET, 2"
6	1500533	4	SCREW, BUTTON HCS, 10-32 X 5/8 PL

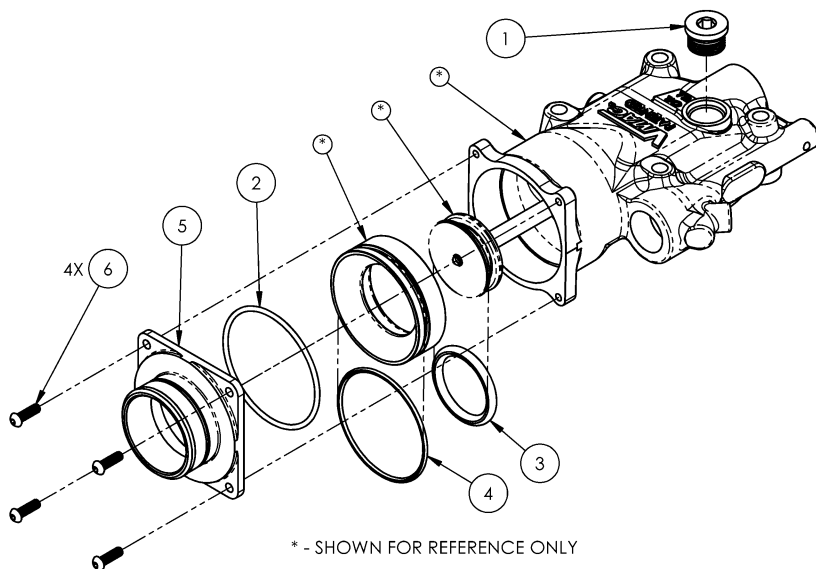


Figure 5 – Inlet Valve Sub Components

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5. Regulator Assembly, 4800819

Item #	Part #	Qty	Description
1	9200564	1	ASSEMBLY, REGULATOR
1.1	A700137	1	ACCESSORY PACK, REGULATOR ASSEMBLY
1.2	3200493	1	MANIFOLD, REMOTE REGULATOR
1.3	5000012	1	CONNECTOR, BRASS NPT-POLY, 1/8-1/4
1.4	5000165	1	ELBOW,90, BRASS NPT-POLY, 1/8-3/16
1.5	3500288	1	SENSOR, PRESSURE
2	1201074	1	BRACKET, REGULATOR
3	1540538	2	BOLT, SHCS, PL, M6 X 1.0 X 14

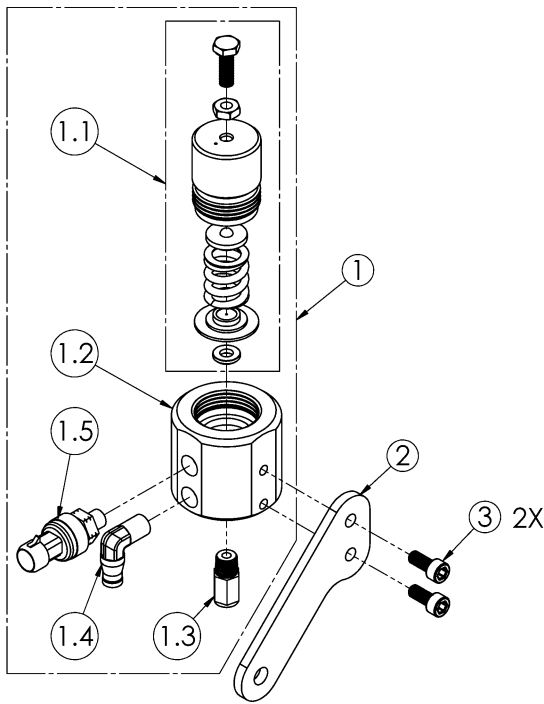


Figure 6 – Regulator & Oil Fill Components

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6. Tank, VR70, 9200430

Item #	Part #	Qty	Description
1	9200039	1	OIL FILTER, VR 3.250 SHORT
2	4900035	1	NIPPLE, 3/4 - 16
3	4900128	1	FTG, STR, #12MORB-#12MJIC, VITON
4	5800142	1	COVER, SIGHT GLASS
5	1520646	2	BOLT, HHCS G10.9, M6 X 1 X 10 FL PL
6	4900106	1	PLUG, #5ORB, EXTERNAL HEX, VITON
7	A700061	1	PYREX WINDOW KIT
8	4900200	1	FTG, STR, #8MORB-#8MJIC, VITON
9	5830066	1	O-RING, VITON, 4 3/4 ID X 1/8
10	A700152	1	COALESCING ASSEMBLY
11	9200437	1	ASSEMBLY, BLOWDOWN CAP
11.1	4500104	1	MUFFLER, SINTERED EXHAUST, 1/8"
11.2	3600054	1	VALVE, SAFETY 200 PSI
12	5000160	1	ADAPTOR, BRASS, 1/8-1/8 NPT
13	5000165	1	ELBOW,90, BRASS NPT-POLY, 1/8-3/16
14	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
15	1510086	6	BOLT, HHCS NC G5 FL LK, 3/8 X 1
16	3600064	1	SEAL, TANK REAR CAP
17	5840069	1	SPRING, COMPRESSION, FL 1.5",OD .54
18	3600090	1	THIMBLE, SCREEN

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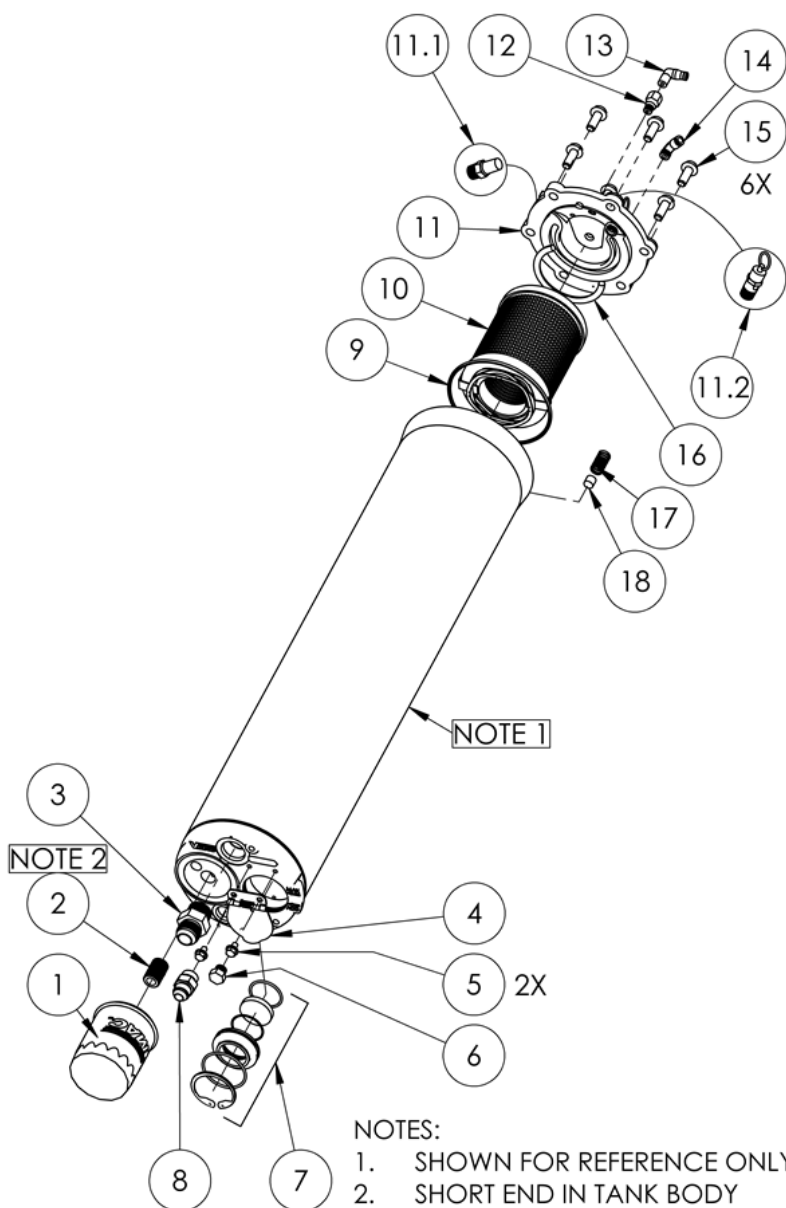


Figure 7 - VR70 Tank

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7. Electrical Pack, 3810102

Item #	Part #	Qty	Description
1	3530803	1	CABLE SET, DTC, FOOT PEDAL, MX64
2	3530804	1	CABLE SET, DTC, MAIN
3	3530805	1	CABLE SET, DTC, OBD2
4	3530806	1	CABLE SET, DTC, PRESSURE
5	2200164	5	TIE, NYLON, BLACK, 8"
6	1700581	120.0	LOOM, SPLIT PLASTIC, ¼, HIGH TEMP

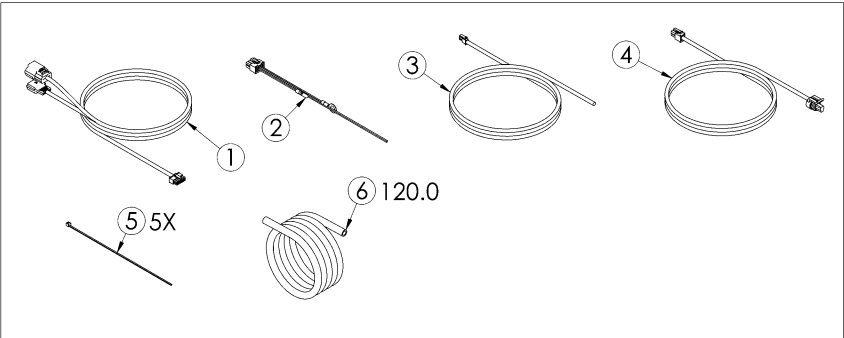


Figure 8 – Electrical Pack

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