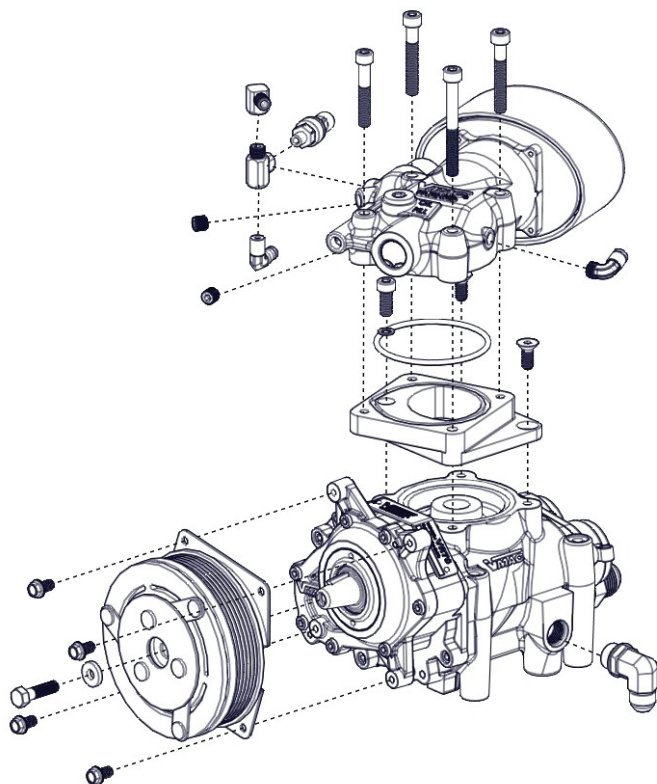




Illustrated Parts List for VMAC System

DM20030

2023+ Ford Super Duty® F-250 – F600
6.7 L Diesel

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Illustrated Parts List for VMAC System DM2X030

DTM70-H, FORD F250-F600 6.7L, 2023+

1 – Kit Pack List	2
2 – Fastener Pack, 3801498.....	4
2 – Fastener Pack (cont'd), 3801498.....	6
3 – Compressor Assembly, P170070	8
4 – Regulator Assembly, 4800886.....	10
5 – Air Filter Assembly, 4800851.....	11
6 – VR70 Tank, 9200430.....	12
7 – Electrical Pack, 3810107	14
8 – Hydraulic Pump Options	15

NOTE: Drawings are not to scale.

Document 1930486 Changes and Revisions

Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
A	ECN 23-090: ENGINEERING RELEASE	TDF	CAM	ASE	RDB	TPK	25 MAY 2023

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1 – Kit Pack List

Item #	Part #	Qty	Description
1	P170070	1	ASSEMBLY, COMPRESSOR, DTM70/DTM70-H
2	8100039	1	PTO, CHELSEA 210, FORD 6.7L
3	1700658	1	HOSE, RAD
4	1710878	1	HOSE, MODIFIED (1700658)
5	4800851	1	ASSY, REMOTE FILTER, 70CFM
6	9200569	1	WELDMENT, COOLER
7	3550930	1	HARNESS, 250W INVERTER
8	1201225	1	BRACKET, INVERTER, FORD SD 2023+
9	1200957	1	BRACKET, WELDMENT, COOLER
10	4800886	1	ASSY, REGULATOR, FORD 6.7L
11	2200105	2	CLAMP, MOUNTING BRACKET C, 6
12	1710897	1	HOSE, MODIFIED (1700528)
13	3550955	1	INTERFACE CABLE, 6WIRE, DTM
14	1720719	1	TUBE, COOLANT, FORD 6.7L (ENGINE SIDE)
15	1720718	1	TUBE, COOLANT, FORD 6.7L (RADIATOR SIDE)
16	1200924	2	BACKING STRAP, TANK
17	1200933	2	MOUNT, TANK
18	3551156	1	CONTROL BOX, PARK, DTM
19	3551067	1	ASSY, PTO INDICATOR PANEL, DTM-H
20	9200430	1	TANK, VR70 DRESSED INT OIL FILTER
21	3551077	1	HARNESS, PRESS SWITCH-SOL, PTO
22	1201116	2	BRACKET, RUNNING BOARD, FORD
23	4800852	1	ASSEMBLY, OIL FILL BRACKET
24	4500169	1	VALVE, PRIORITY, 18 GPM
25	1700027	48.0	HOSE, HEATER 150 PSI 5/8
26	1201133	1	BRACKET, COOLANT VALVE
27	1752128	1	HOSE, CRIMPED, 1/2" X128"
28	1752085	1	HOSE, CRIMPED, 1/2" X85"
29	1771050	1	HOSE, CRIMPED, 3/4" X 50"
30	1772053	1	HOSE, CRIMPED, 3/4" X 53"
31	1700650	36.0	HOSE, FLEXIBLE, AIR INTAKE 2"
32	3810107	1	ELEC PACK, DTM-H, MX64 PEDAL
33	3801498	1	FAST PACK, FORD 6.7D, DTM-H, 2023+
34	1930439	1	MANUAL, OWNERS, DTM-H
35	1930485	1	MANUAL, INSTALLATION, DM20030
36	1930486	1	ILLUSTRATED PARTS LIST, DM20030
37	4800814	1	SYS ID & OP INSTR, DTM, GENERIC
38	A700094	1	OIL, VR, 4L, HIGH PERFORMANCE
39	A700091	2	OIL, VR, 1L, HIGH PERFORMANCE

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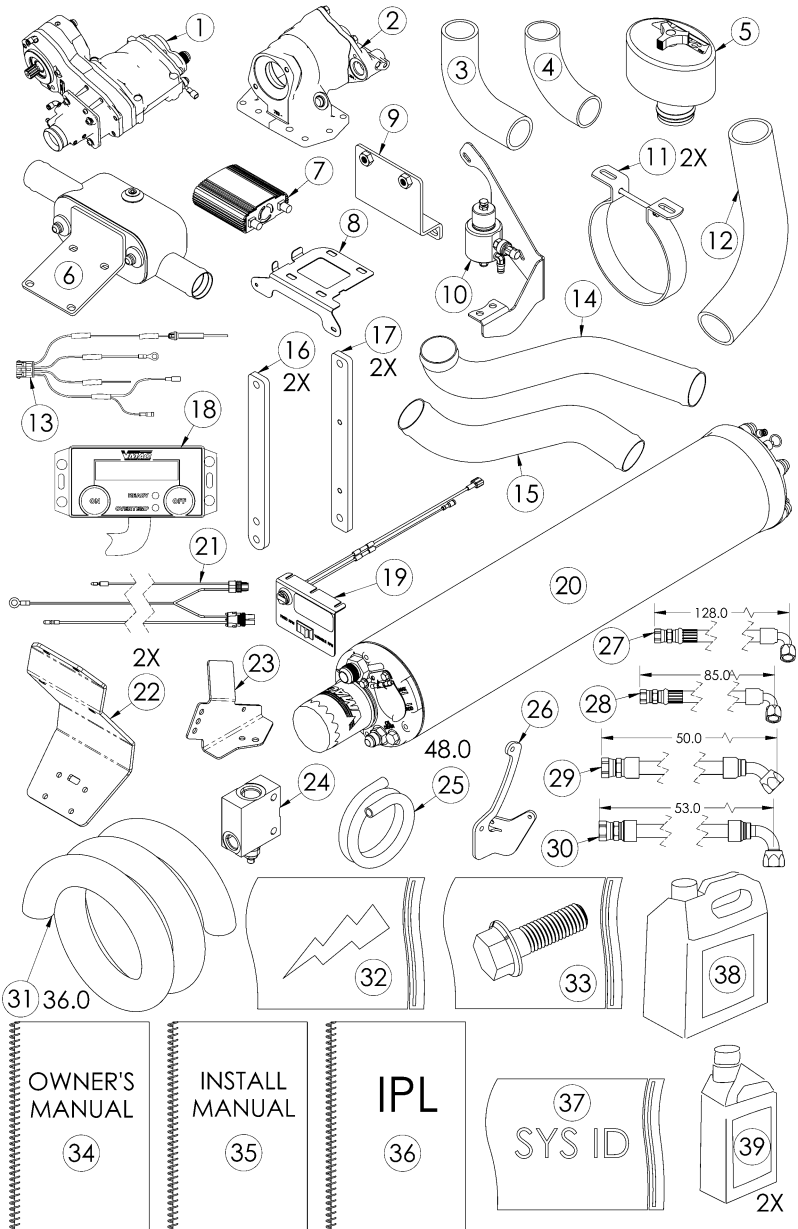


Figure 1 - Kit Pack List

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2 – Fastener Pack, 3801498

Item #	Part #	Qty	Description
1	3801409	1	FASTENER PACK, AIR INTAKE
1.1	2200027	4	CLAMP, HOSE HS32
1.2	1720604	1	TUBE
1.3	1540549	2	BOLT, SHCS, M6 X 1 X 18, PLATED, G12.9
1.4	1560532	2	NUT, CLIP, M6 X 1.0
2	3801381	1	FAST PACK, COMPRESSOR
2.1	1510551	2	BOLT, HHCS, NC G9 PL, 3/8 X 4
2.2	1570044	2	WASHER, ALLOY PL SAE, 3/8
2.3	4900036	1	FTG, 45, #12FJIC-#12MJIC
3	3800615	1	FAST PACK, WIRING LOOM
3.1	1700029	120.0	LOOM, SPLIT PLASTIC, 1/2
3.2	2200039	7	TIE, NYLON MD, 7"
4	3801161	1	FASTENER PACK, TANK
4.1	1510539	4	BOLT, HHCS NC FUL-PL 3/8 X 6 IN
4.2	1570044	4	WASHER, ALLOY PL SAE, 3/8
4.3	1550504	4	NUT, FLANGE LOCK NC, CASE HARDN 3/8
4.4	1510349	4	BOLT, HHCS NC G8 PL, 5/16 X 1/2
5	3801202	1	FASTENER PACK, TUBING
5.1	1700055	60.0	HOSE, BRAKE BLACK, 1/4
5.2	1700570	120.0	TUBE, TEFLON, PTFE, 1/4"OD
5.3	1700571	120.0	TUBE, TEFLON, PTFE, 3/16"OD X 1/8"ID
5.4	1700581	60.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
5.5	1700581	120.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
5.6	1700581	120.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
5.7	2200039	15	TIE, NYLON MD, 7"

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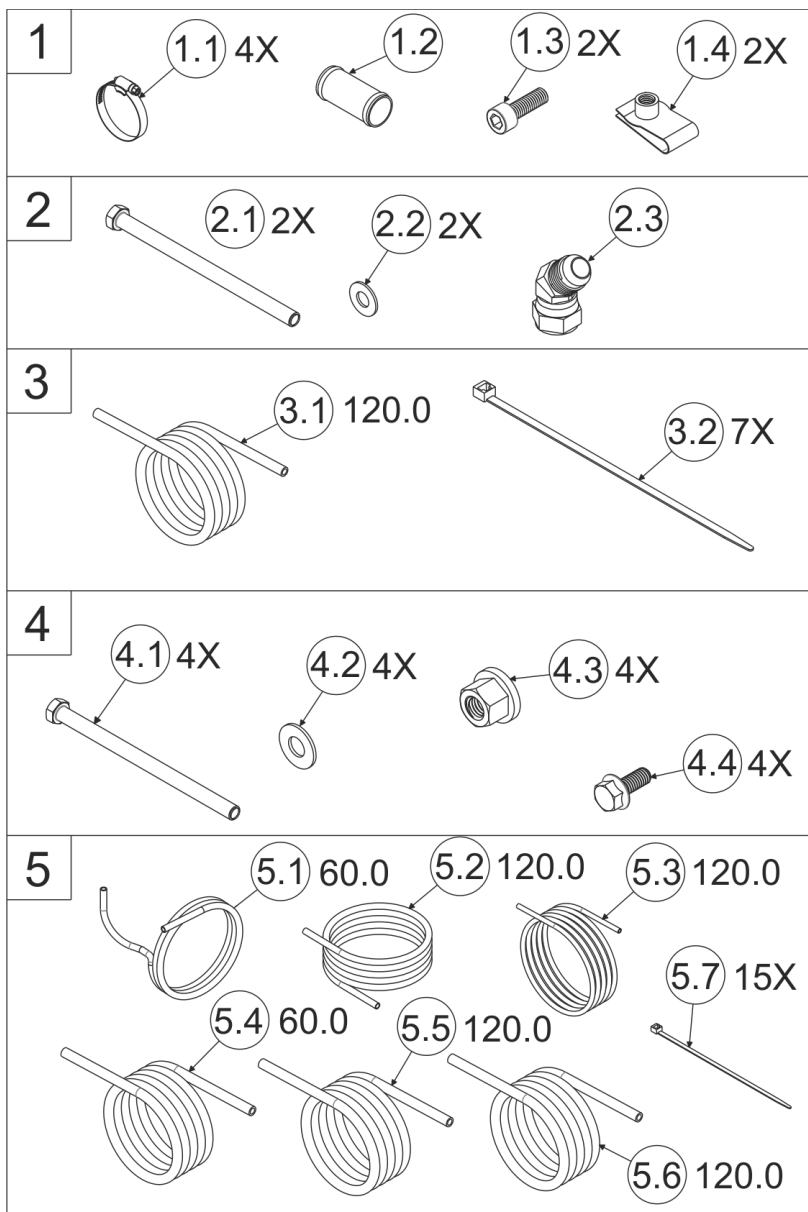


Figure 2 - Fastener Packs

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2 – Fastener Pack (cont'd), 3801498

Item #	Part #	Qty	Description
6	3801496	1	FAST PACK, REGULATOR
6.1	1560537	1	NUT, NYLOCK, M6 X 1.0, FL PL
6.2	1520642	1	BOLT, HHCS, M6 X 1.0 X 16MM FL
7	3801400	1	FASTENER PACK, HOSE ROUTING
7.1	2200131	2	CLAMP, C.R.I., 1
7.2	1700584	12.0	SPIRAL WRAP, 1" OD, BLACK
7.3	1700613	12.0	SPIRAL WRAP, 1/2" ID, BLACK
7.4	2200019	5	TIE, NYLON MD, 6"
7.5	2200018	10	TIE, NYLON MD, 11
7.6	1550504	1	NUT, FLANGE LOCK NC, CASE HARDN 3/8
7.7	1700605	12.0	WRAP, HEAT PROTECTION, 1/2"
7.8	1700645	12.0	WRAP, HEAT PROTECTION, 1"
7.9	1700647	12.0	WRAP, HEAT PROTECTION, 3/4"
8	3801397	1	FASTENER PACK, COOLER
8.1	1560512	2	NUT, FLANGE PL, M10 X 1.5
8.2	1520150	2	BOLT, HHCS G10.9, M10 X 1.5 X 70
8.3	1520013	2	BOLT, HHCS G10.9, M10 X 1.5 X 35
8.4	1570236	4	WASHER, SPLIT LOCK, 7/16
8.5	2200027	6	CLAMP, HOSE HS32
8.6	2200131	2	CLAMP, C.R.I., 1
8.7	1560532	2	NUT, CLIP, M6 X 1.0
8.8	1520590	2	BOLT, HHCS, M6 X 1.0 X14 FL PL
8.9	1700643	10.0	LOOM, MESH, 2" - 3"
8.10	2200018	4	TIE, NYLON MD, 11
8.11	3200526	1	PLUG, BARB, 5/8"
8.12	2200029	2	CLAMP, HOSE HS10
9	3801495	1	FASTENER PACK, INVERTER
9.1	2200213	3	TIE, NYLON, BLACK, 30"
10	3801407	1	FASTENER PACK, OIL FILL
10.1	4900162	1	TEE, RUN, STEEL #12JIC
10.2	2200083	1	CLAMP, C R.I., 1 1/4
10.3	4900164	1	CAP, #12JIC, MOD
10.4	4900062	1	CONNECTOR, STEEL M-JIC/M-JIC, 3/4
10.5	1560515	1	NUT, M8 X 1.25 FL PL
10.6	1520570	1	BOLT, HHCS FL LK PL, M8 X 1.25 X 16
10.7	1560516	1	NUT, M6 X 1.0 FL PL
10.8	1520583	1	BOLT, HHCS, FL, M6 X 1.0 X 20
11	3801441	1	FASTPACK, PUMP MOUNT, DM2
11.1	1530542	2	BOLT, SHCS, 3/8-16 X 1, PLATED

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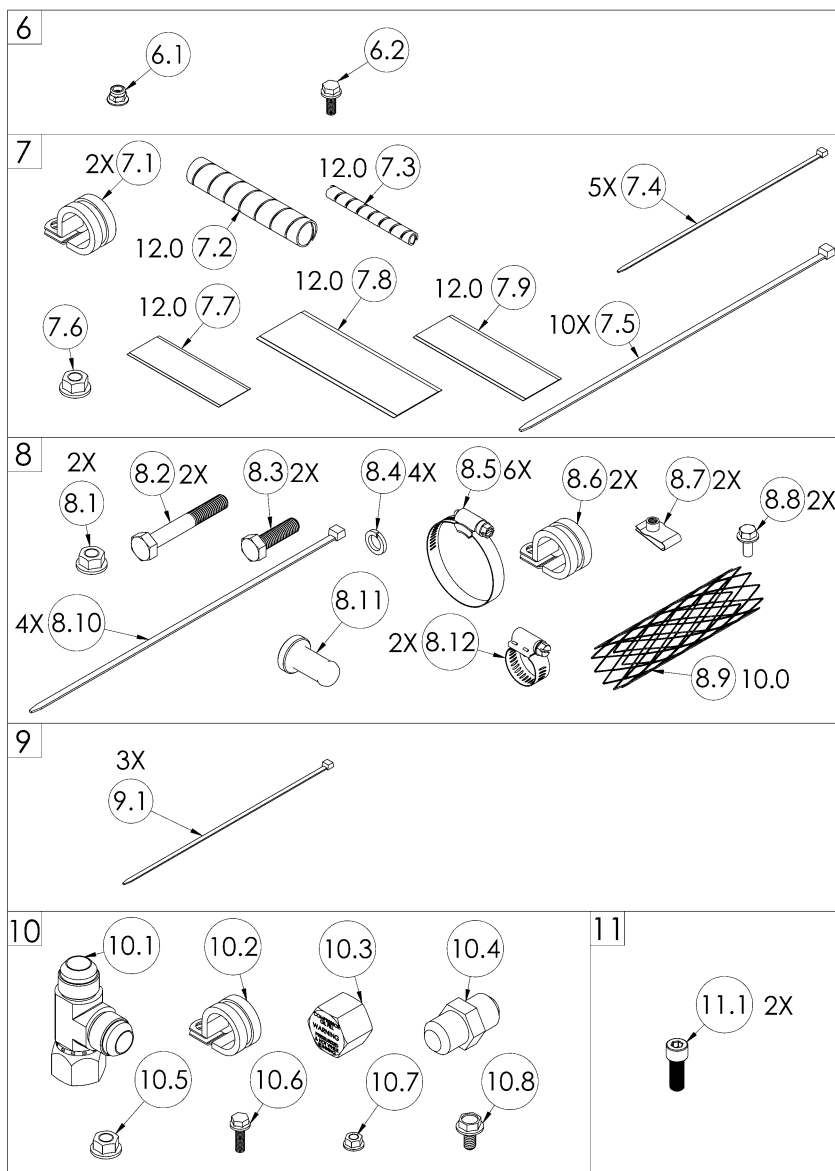


Figure 3 - Fastener Packs (cont'd)

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3 – Compressor Assembly, P170070

Item #	Part #	Qty	Description
1	1201118	1	COVER, HYDRAULIC PUMP PORT
2	1520570	2	BOLT, HHCS FL LK PL, M8 X 1.25 X 16
3	5830122	1	O-RING, VITON, 3 3/4 ID X 3/32
4	9200635	1	CAP, DISCHARGE, LOW PROFILE
5	2200245	1	CLAMP, CABLE, 3/8
6	1540549	5	BOLT, SHCS, M6 X 1 X 18, PLATED, G12.9
7	4900128	1	FTG, STR, #12MORB-#12MJIC, VITON
8	3550934	1	HEATER, 200W, ASSY
9	3550682	1	PROBE, ASSY, THERMISTOR, SHORT
10	4900200	1	FTG, STR, #8MORB-#8MJIC, VITON
11	1500701	1	SCREW, PHILLIPS PH, 6 - 32 X 3/8
12	1570514	1	WASHER, FLAT, ALUM, #6
13	9200556	1	ASSY, INLET VALVE
13.1	5830159	1	O-RING, VITON, 3 1/4 ID X 3/32
13.2	5830143	1	O-RING, VITON, 2 3/4"ID X 3/32
14	1540554	4	BOLT, SHCS, M6X1.0X25, GR12.9 PLT
15	1570038	4	WASHER, FLAT SAE, 1/4
16	5000020	2	ELBOW, BRASS NPT-POLY, 1/8-1/4

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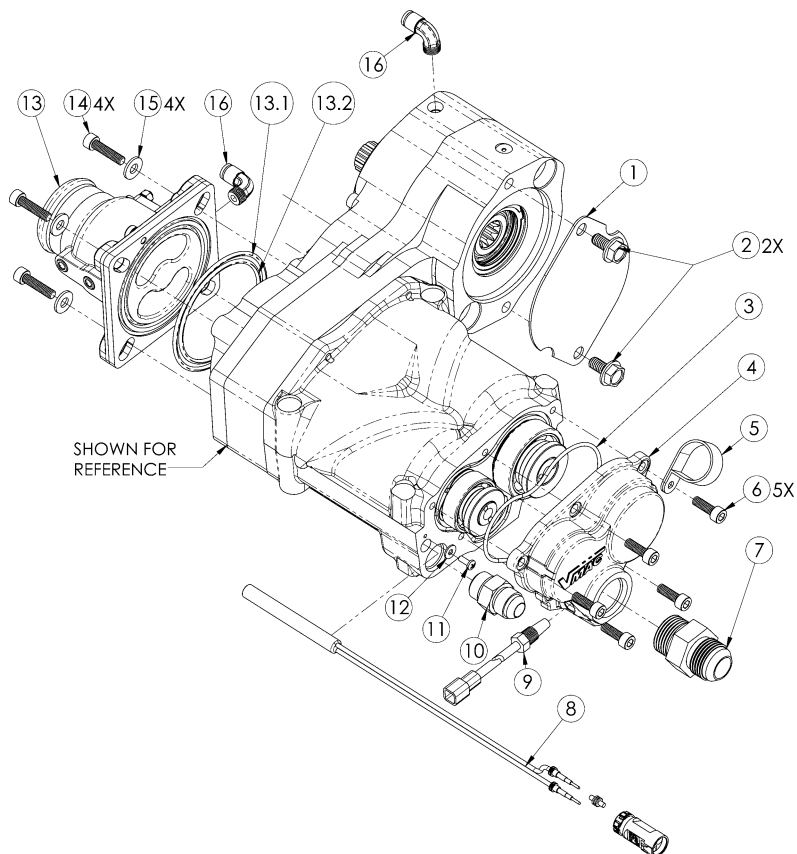


Figure 4 - Compressor Assembly

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4 – Regulator Assembly, 4800886

Item #	Part #	Qty	Description
1	9200637	1	ASSEMBLY, REGULATOR, 200PSI
1.1	A700137	1	ACCESSORY PACK, REGULATOR ASSEMBLY
1.2	3200493	1	MANIFOLD, REMOTE REGULATOR
1.3	3501037	1	SENSOR, PRESSURE, 200PSI
1.4	5000165	1	ELBOW,90, BRASS NPT-POLY, 1/8-3/16
1.5	5000012	1	CONNECTOR, BRASS NPT-POLY, 1/8-1/4
2	1201224	1	BRACKET, REGULATOR
3	1540538	2	BOLT, SHCS, PL, M6 X 1.0 X 14

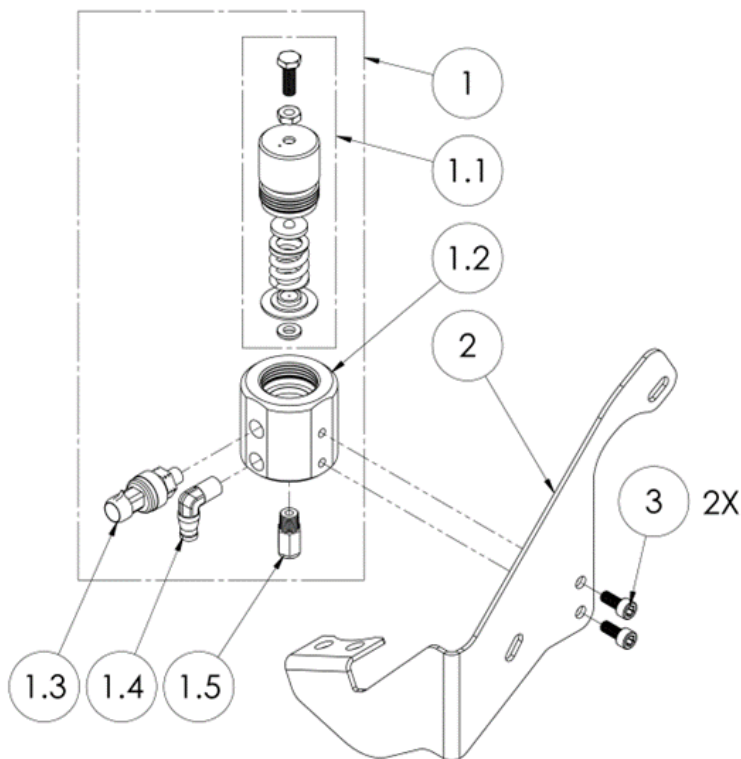


Figure 5 - Regulator Sub Components

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5 – Air Filter Assembly, 4800851

Item #	Part #	Qty	Description
1	1500676	1	KNOB, PLASTIC, 1/4-20
2	3600066	1	COVER, AIR FILTER, PLASTIC
3	3600037	1	FILTER ELEMENT, PAPER
4	1550221	1	NUT, HEX NC PL, 1/4, GR8
5	1570038	1	WASHER, FLAT SAE, 1/4
6	1500519	1	ROD, THREADED, 1/4 X 2.75"
7	1201132	1	WELDMENT, REMOTE FILTER, 70CFM

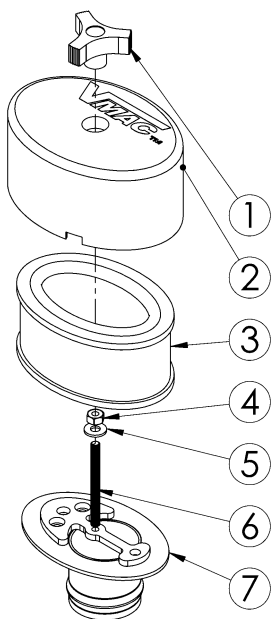


Figure 6 – Air Filter Sub Components

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6 – VR70 Tank, 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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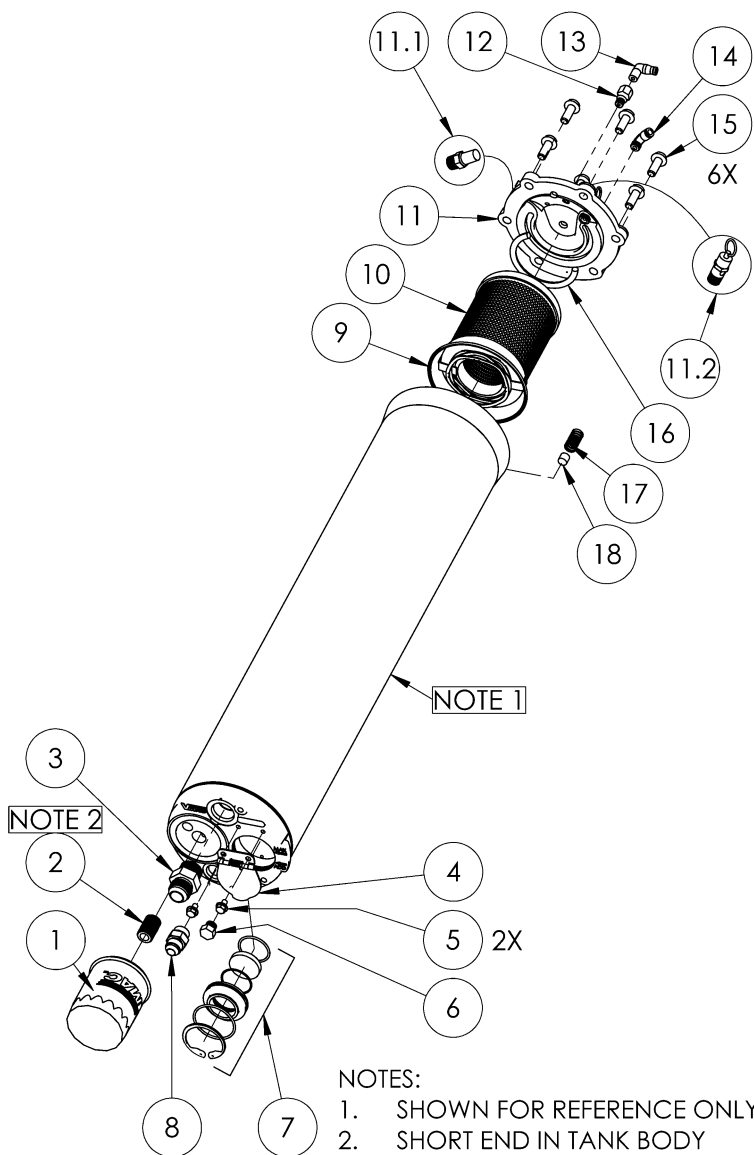


Figure 7 - VR70 Tank

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7 – Electrical Pack, 3810107

Item #	Part #	Qty	Description
1	3810107	1	ELEC PACK, DTM-H, MX64 PEDAL
1.1	3530803	1	CABLE SET, DTC, FOOT PEDAL, MX64
1.2	3530814	1	CABLE SET, DTC, MAIN, DTM-H
1.3	3530805	1	CABLE SET, DTC, OBD2
1.4	3530806	1	CABLE SET, DTC, PRESSURE
1.5	2200164	5	TIE, NYLON, BLACK, 8"
1.6	1700581	120.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP

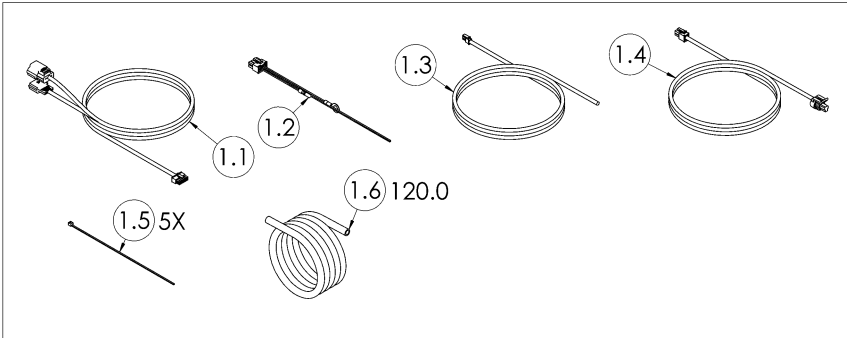


Figure 8 – Electrical Pack, 3810107

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8 – Hydraulic Pump Options

Note: For ordering convenience, VMAC's 3 DTM-H models are configured with hydraulic pump & custom throttle

DM2 A 011

Hydraulic Pump Option

A = 4500162 (3.4 GPM @ 1250 Eng. RPM)
B = 4500163 (6.0 GPM @ 1250 Eng. RPM)
C = 4500164 (8.1 GPM @ 1250 Eng. RPM)

System #	Option	Part #	Qty	Description
DM2A030	A	4500162	1	PUMP, HYD, DTM-H, FORD 10R140, 021
		3560294	1	VR DTC, DM2A, FORD, 6.7D 2023+
DM2B030	B	4500163	1	PUMP, HYD, DTM-H, FORD 10R140, 037
		3560293	1	VR DTC, DM2B, FORD, 6.7D 2023+
DM2C030	C	4500164	1	PUMP, HYD, DTM-H, FORD 10R140, 050
		3560292	1	VR DTC, DM2C, FORD, 6.7D 2023+

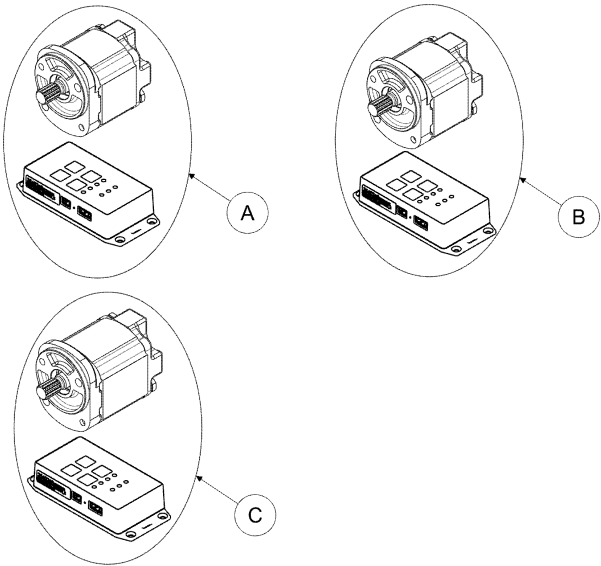


Figure 9 – Hydraulic Pump Options

NOTE: Only install pumps confirmed by VMAC to fit your application.

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