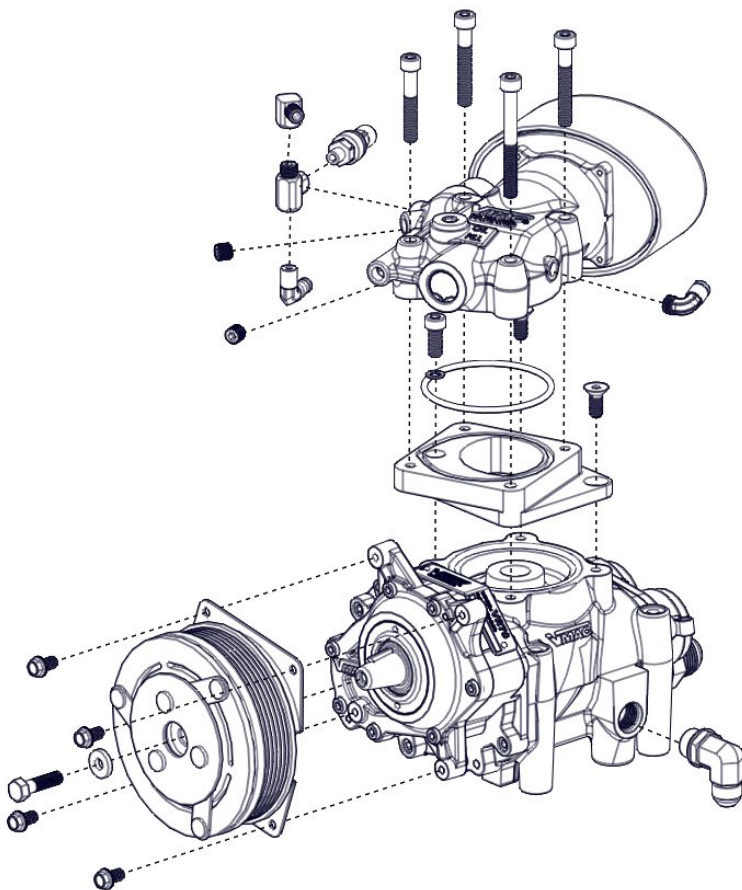


UNDERHOODTM **70**

AIR COMPRESSORS



Illustrated Parts List for VMAC System

V900121

**2017 - 2019 Ford Super Duty® F250 – F550
6.8 L V10 Gas**

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Illustrated Parts List for VMAC System V900121

FORD 6.8L V10 2017 - 2019

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NOTE: Drawings are not to scale.

Document 1930296 – Changes and Revisions

Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
A	Original	LDF	CJH	N/A	BC	AMG	26 Oct 2016
B	ECN-16-124	LDF	CJH	N/A	BDJ	AMG	14 Nov 2016
C	ECN-17-168	CJH	KRM	N/A	RB	AWG	2 Oct 2017
D	ECN-19-055	ASE	N/A	AJH	BDJ	LPH	5 Sep 2019
E	ECN-19-182	JWR	KRM	ASE	BDJ	LPH	5 Nov 2019

VMAC – Vehicle Mounted Air Compressors

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1. Kit Pack List

Item #	Part #	Qty	Description
1	4800745	1	ASSY, MAIN BRACKET, FORD 6.8L V10
2	1800243	1	PULLEY, CRANK, VR70, FORD 6.8L
3	1610333	1	BELT, K060795
4	1720711	1	WELDMENT, TUBE, RADIATOR, FORD 6.8L
5	9200430	1	TANK, VR70 DRESSED INT OIL FILTER
6	1200933	2	MOUNT, TANK
7	1200924	2	BACKING STRAP, TANK
8	2200105	2	CLAMP, MOUNTING BRACKET C, 6
9	1200935	1	BRACKET, RESERVOIR, POWER STEERING
10	1710873	1	HOSE, MODIFIED (1700251)
11	1200939	1	BRACKET, MOUNT, HOSE CLAMP
12	3801149	1	FASTENER PACK, V900121
13	P120177	1	ASSEMBLY, COMPRESSOR, V900121
14	1200942	1	BRACKET, COOLER MOUNTING
15	9200566	1	WELDMENT, COOLER
16	3560256	1	VR DTC, V900121
17	3550723	1	VR CONTROL BOX
18	3550947	1	INTERFACE CABLE, V900121/V910021
19	1752059	1	HOSE, CRIMPED, 1/2" X 59"
20	1752093	1	HOSE, CRIMPED, 1/2" X 93"
21	1771087	1	HOSE, CRIMPED, 3/4" X 87"
22	1930060	1	MANUAL, OWNERS GENERIC, VR70 & 150
23	1930295	1	MANUAL, INSTALL, V900121 & V910021
24	1930296	1	ILLUSTRATED PARTS LIST, V900121
25	4800746	1	SYS ID & OP INSTR, V900121
26	A700091	1	OIL, VR, 1L, HIGH PERFORMANCE
27	A700094	1	OIL, VR, 4L, HIGH PERFORMANCE
28	3810102	1	ELEC PACK, U70/150, MX64 PEDAL

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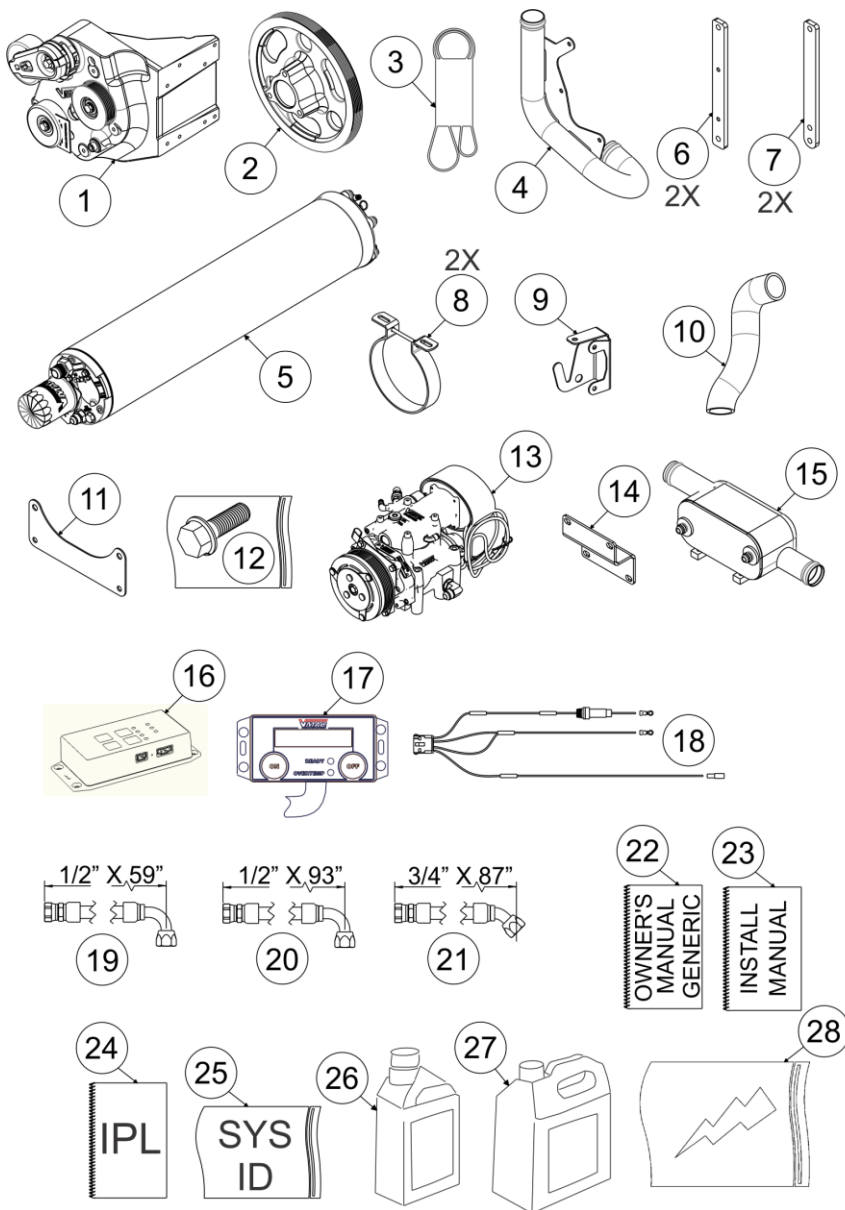


Figure 1 - Kit Pack List

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2. Fastener Pack, 3801149

Item #	Part #	Qty	Description
1	3801150	1	FASTENER PACK, MAIN BRACKET
1.1	1540521	3	BOLT, SHCS, PL, M8 X 1.25 X 110
1.2	1520591	2	BOLT, HHCS, M8-1.25 X 25, G10.9 FL PL
1.3	3200513	1	ADAPTER, 16MM
1.4	1520627	4	BOLT, HHCS, FL PL, M8 X 1.25 X 20
1.5	1570067	2	WASHER, SAE, 5/16
2	3801151	1	FASTENER PACK, COMPRESSOR
2.1	1540521	4	BOLT, SHCS, PL, M8 X 1.25 X 110
2.2	1700064	12.0	LOOM, SPLIT PLASTIC, 1
3	3801152	1	FASTENER PACK, FAN SPACER
3.1	3400071	1	SPACER, FAN, M36X2.0 RH
4	3801154	1	FASTENER PACK, CRANK PULLEY
4.1	1520579	3	BOLT, HHCS G10.9, M10 X 1.5 X 75
4.2	1570044	3	WASHER, ALLOY PL SAE, 3/8
5	3801171	1	FASTENER PACK, COOLER
5.1	1520011	2	BOLT, HHCS G10.9, M10 X 1.5 X 90
5.2	1520060	2	BOLT, HHCS G10.9, M10 X 1.5 X 40
5.3	1570496	4	WASHER, FENDER, 10MM X 30MM
5.4	1570236	4	WASHER, SPLIT LOCK, 7/16
5.5	1720715	2	TUBE, CONNECTOR
5.6	1700638	1	HOSE, RAD
5.7	1710874	1	HOSE, MODIFIED (1700638)
5.8	1720647	1	TUBE, 1-3/4" CONNECTOR
5.9	2200147	1	CLAMP, C R.I., 2"
5.10	1550521	1	NUT, FLANGE LOCK NC, 1/4-20
5.11	1510540	1	BOLT, HHCS NC G8 FL LK PL, 1/4X3/4
5.12	1700643	7.0	LOOM, MESH, 2" - 3"
5.13	1700643	7.0	LOOM, MESH, 2" - 3"
5.14	2200027	14	CLAMP, HOSE HS32
5.15	2200048	6	CLAMP, HOSE HS12
5.16	4900141	2	CONNECTOR, HOSE BARB 3/4 PLATED
5.17	1700177	24.0	HOSE, HEATER, 3/4
5.18	1700177	24.0	HOSE, HEATER, 3/4

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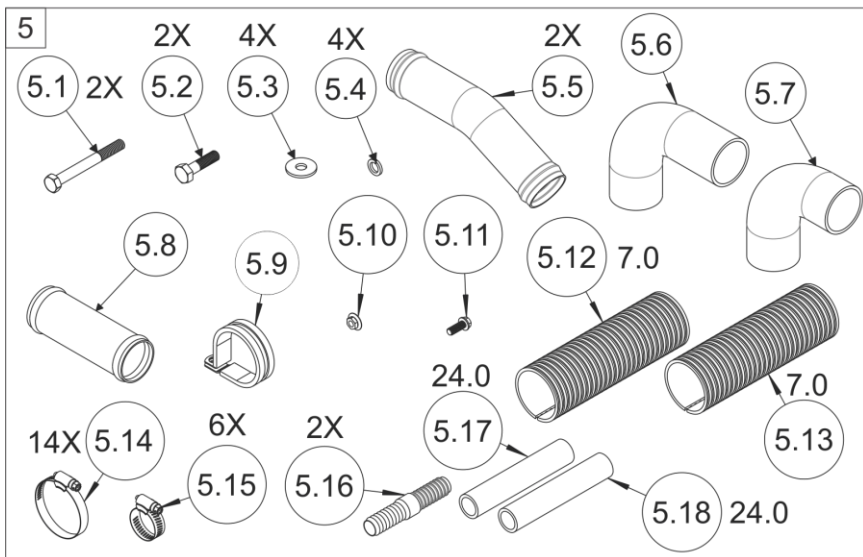
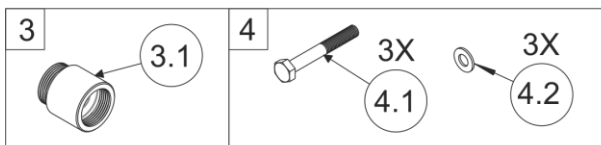
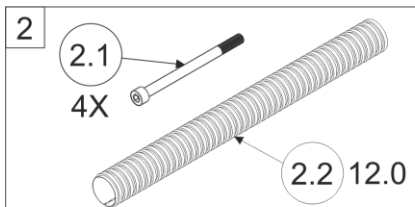
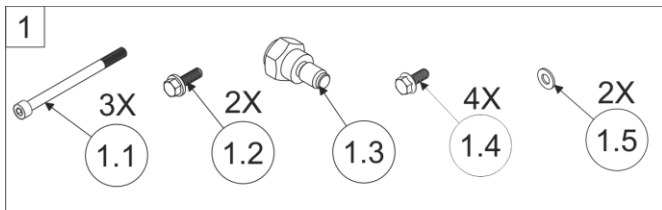


Figure 2 – Fastener Packs

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2. Fastener Pack, 3801149 (CONTINUED)

Item #	Part #	Qty	Description
6	3801161	1	FASTENER PACK, TANK
6.1	1510539	4	BOLT, HHCS NC FUL-PL 3/8 X 6 IN
6.2	1550504	4	NUT, FLANGE LOCK NC, CASE HARDN 3/8
6.3	1570044	4	WASHER, ALLOY PL SAE, 3/8
6.4	1510349	4	BOLT, HHCS NC G8 PL, 5/16 X 1/2
7	3801163	1	FASTENER PACK, TEFLON HOSE
7.1	1700570	136.0	TUBE, TEFLON, PTFE, 1/4"OD
7.2	1700571	136.0	TUBE, TEFLON, PTFE, 3/16"OD X 1/8"ID
7.3	1700581	134.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
7.4	1700581	134.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
7.5	2200039	10	TIE, NYLON MD, 7"
8	3801164	1	FASTENER PACK, HOSE ROUTING
8.1	1560515	2	NUT, M8 X 1.25 FL PL
8.2	1550523	2	NUT, EXTRUDED U, M8 X 1.25
8.3	2200083	4	CLAMP, C R.I., 1 1/4
8.4	1520591	3	BOLT, HHCS, M8-1.25 X 25, G10.9 FL PL
8.5	2200049	5	TIE, NYLON MD, 14"
8.6	2200018	10	TIE, NYLON MD, 11
8.7	1200951	1	BRACKET, P-CLIP
8.8	1520627	1	BOLT, HHCS, FL PL, M8 X 1.25 X 20

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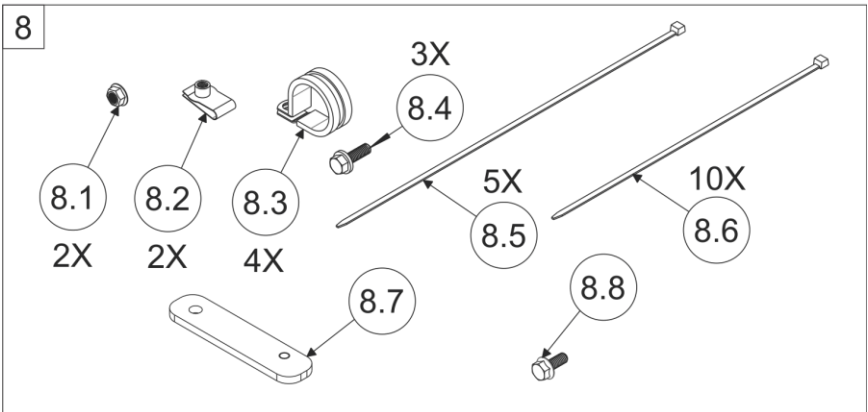
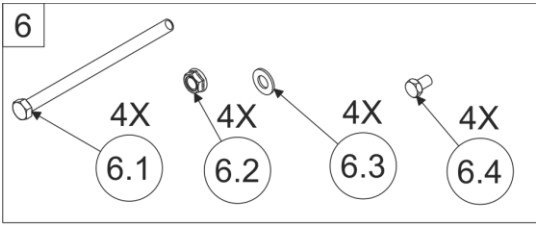


Figure 2 – Fastener Packs (CONTINUED)

3. Compressor Assembly, P120177

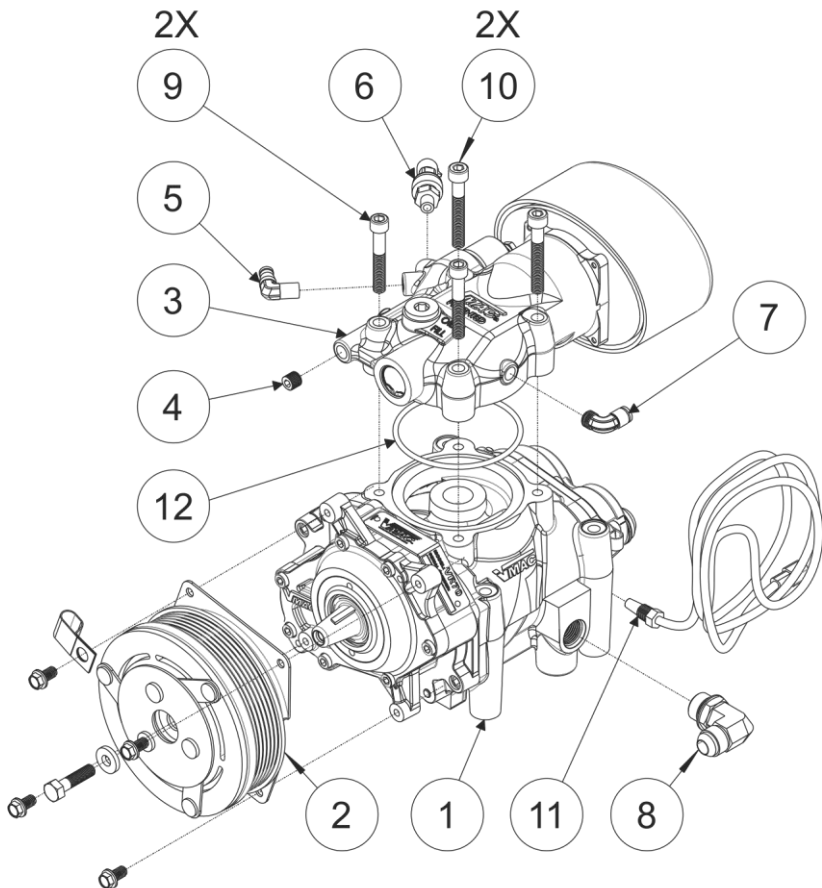
Item #	Part #	Qty	Description
1	P120166	1	VR70 COMPRESSOR ASSEMBLY
2	P200044	1	CLUTCH, COMPLETE, 6 GROOVE, 5.12
3	9200579	1	INLET VALVE, BASIC INTEGRATED REG-H
4	4300076	1	PIPE FTG, PLUG SKT HEAD, 1/8
5	5000165	1	ELBOW,90, BRASS NPT-POLY, 1/8-3/16
6	3500288	1	SENSOR, PRESSURE
7	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
8	4900203	1	CONN, STEEL, 90, #8 MJIC - #8 MORB
9	1540550	2	BOLT,SHCS,M8 X 1.25 X 50, G12.9 PLT
10	1540530	2	BOLT,SHCS,M8 X 1.25 X 55, G12.9 PLT
11	3550682	1	PROBE, ASSY, THERMISTOR, SHORT
12	5830004	1	O-RING, VITON, 3 1/8 ID x 1/8

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CLUTCH FASTENERS
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Figure 3 – Compressor Assembly

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4. Inlet Valve Sub Components, 9200579

Item #	Part #	Qty	Description
1	4900045	1	PLUG, STEEL HEX SAE/O-RING PORT
2	A700137	1	ACCESSORY PACK, REGULATOR ASSEMBLY
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	A700049	1	FILTER KIT ASSEMBLY
5.1	5830070	1	O-RING, VITON, 2 9/16 ID X 3/32
5.2	3200205	1	PLATE, INNER FILTER
5.3	1500077	4	SCREW, BUTTON HEAD, 10 - 32 X 3/8
5.4	1550221	1	NUT, HEX NC PL, 1/4, GR8
5.5	1500519	1	ROD, THREADED, 1/4 X 2.62
5.6	3600037	1	FILTER ELEMENT, PAPER
5.7	3600066	1	COVER, AIR FILTER, PLASTIC
5.8	1570038	1	WASHER, FLAT SAE, 1/4
5.9	1550029	1	NUT, NYLOCK NC, 1/4

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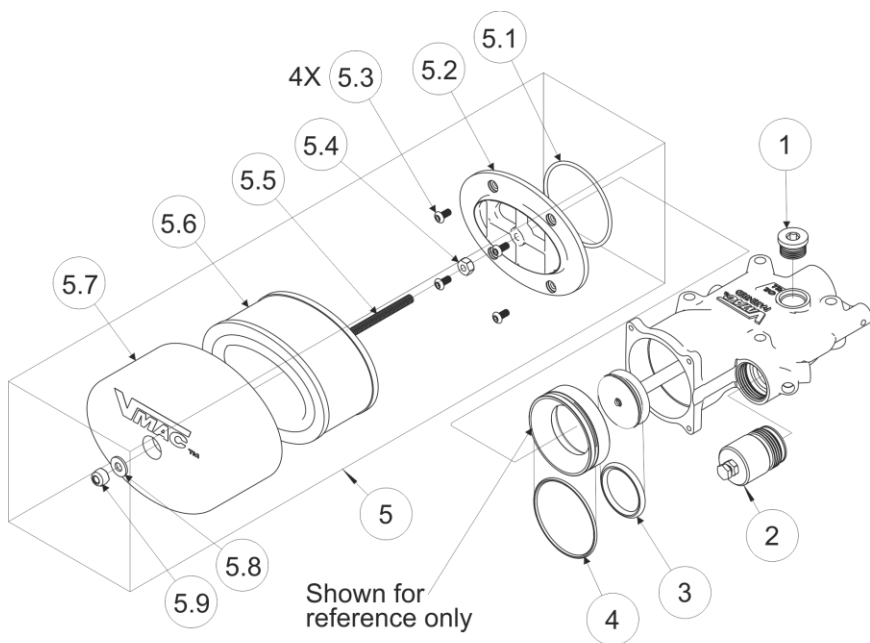


Figure 4 – Inlet Valve Sub Components

5. Main Bracket Assembly, 4800745

Item #	Part #	Qty	Description
1	1100227	1	BRACKET, MAIN, FORD 6.8L V10
2	1300030	1	IDLER, SERP,6 RIB,FLANGE,90MM
3	1300031	1	IDLER, SERP, BACK,FLANGE,90MM
4	1520563	2	BOLT,HHCS FLPL G8.8 M10 X1.50 X 25
5	1570496	2	WASHER, FENDER, 10MM X 30MM
6	3300036	1	TENSIONER 7C3Z-6B209-D

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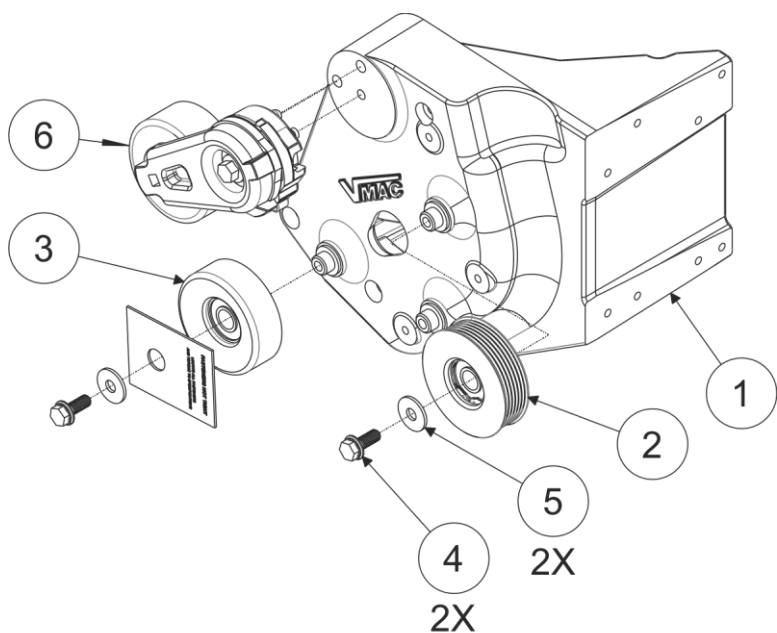


Figure 5 – Main Bracket Assembly

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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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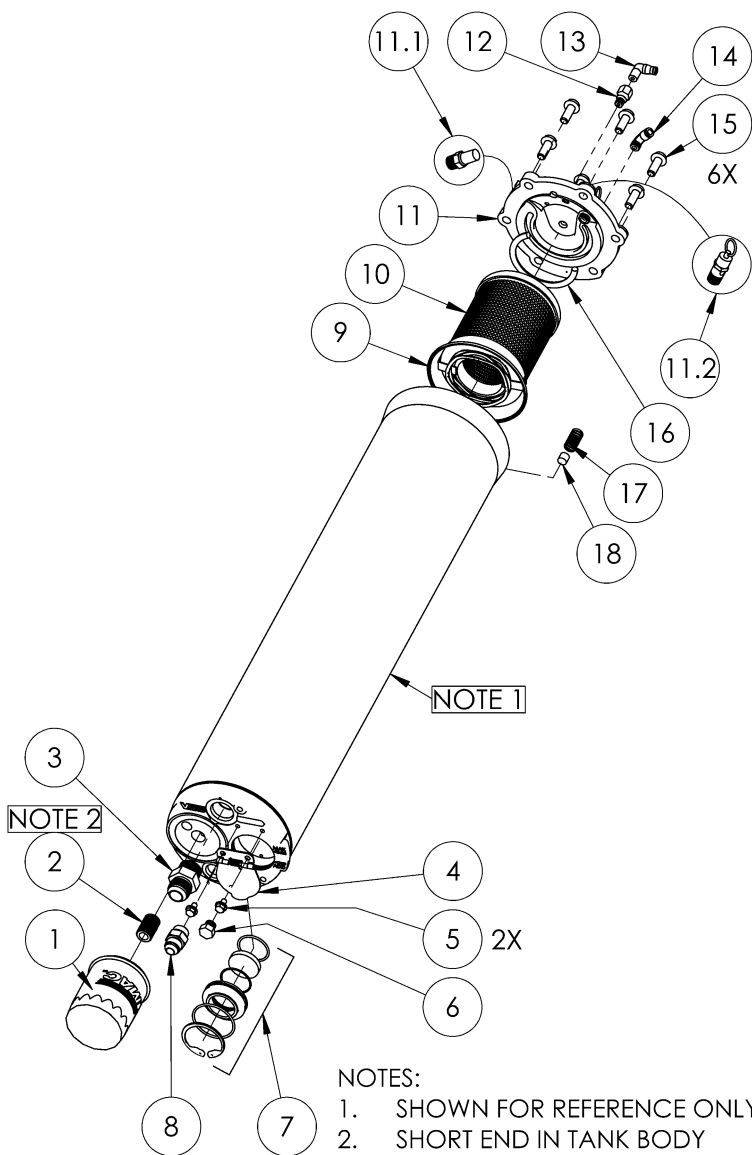


Figure 6 – VR70 Tank

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7. Electrical Pack, 3810102

Item #	Part #	Qty	Description
1	3810102	1	ELEC PACK, U70/150, MX64 PEDAL
1.1	3530803	1	CABLE SET, DTC, FOOT PEDAL, MX64
1.2	3530804	1	CABLE SET, DTC, MAIN
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

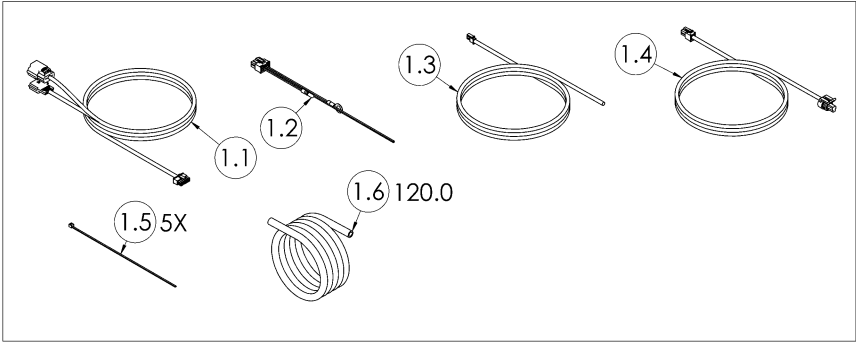


Figure 7 – Electrical Pack, 3810102

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