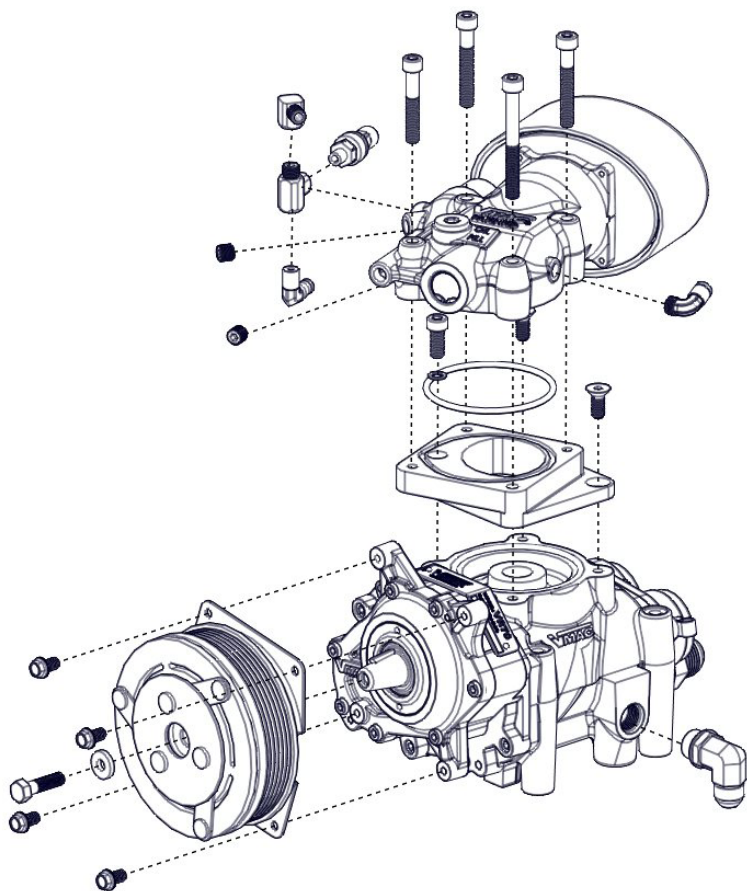


UNDERHOODTM **70**

AIR COMPRESSORS



Illustrated Parts List for VMAC System

V900160

2020 – 2022 Ford Super Duty® F-250 – F600
6.7 L Diesel

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Illustrated Parts List for VMAC System V900160

VR70, 2020 – 2022 FORD F-250 –F-600 6.7L

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NOTE: Drawings are not to scale.

Document 1930422 – Changes and Revisions

Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual	
			Mech.	Elec.			
C	ECN 21-059: BATTERY BRACKET UPDATE	TBC	BJG	N/A	DMK	LPH	09 APR 2021
D	ECN 21-068: APPLICATION DESCRIPTION UPDATE	TBC	CAM	N/A	DSB	LPH	11 MAY 2021
E	ECN: 23-082 Cap model year	MSP	N/A	N/A	MSP	N/A	17 Apr. 2023
F	ECN 23-087: ADDED 1520642 BOLT TO 3801374, ADD COMP SUB ASSY PAGE	CAM	KRM	TDF	DSB	TK	31MAY2023

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1. Kit Pack List

Item #	Part #	Qty	Description
1	4800753	1	ASSY, FEAD BRACKET, FORD 6.7L
2	1100231	1	BRACKET, MAIN, FORD 6.7L PS V8
3	P120217	1	ASSEMBLY, COMPRESSOR
4	1800208	1	PULLEY, CRANK, FORD 6.7 VR70
5	1610339	1	BELT, K060858
6	9200430	1	TANK, VR70 DRESSED INT OIL FILTER
7	1200933	2	MOUNT, TANK
8	1200924	2	BACKING STRAP, TANK
9	2200105	2	CLAMP, MOUNTING BRACKET C, 6
10	1700657	1	HOSE, COLD SIDE, CAC
11	4800840	1	ASSY, RELOCATION, CAC, FORD 6.7
12	4800835	1	ASSY, BRACKET, DEGAS TANK, FORD 6.7
13	1201111	1	BRACKET, WASHER BOTTLE, FORD 6.7
14	4800836	1	ASSEMBLY, DEGAS TANK, FORD 6.7
15	1200793	1	BRACKET, STEERING RESERVOIR
16	1200976	2	BRACKET, BATT BOX MOUNT, FRONT
17	1200977	1	STRAP, BATT BOX MOUNT, RIGHT, FRONT
18	1200978	1	STRAP, BATT BOX MOUNT, LEFT, FRONT
19	4800837	1	ASSEMBLY, BATTERY POST RELOC

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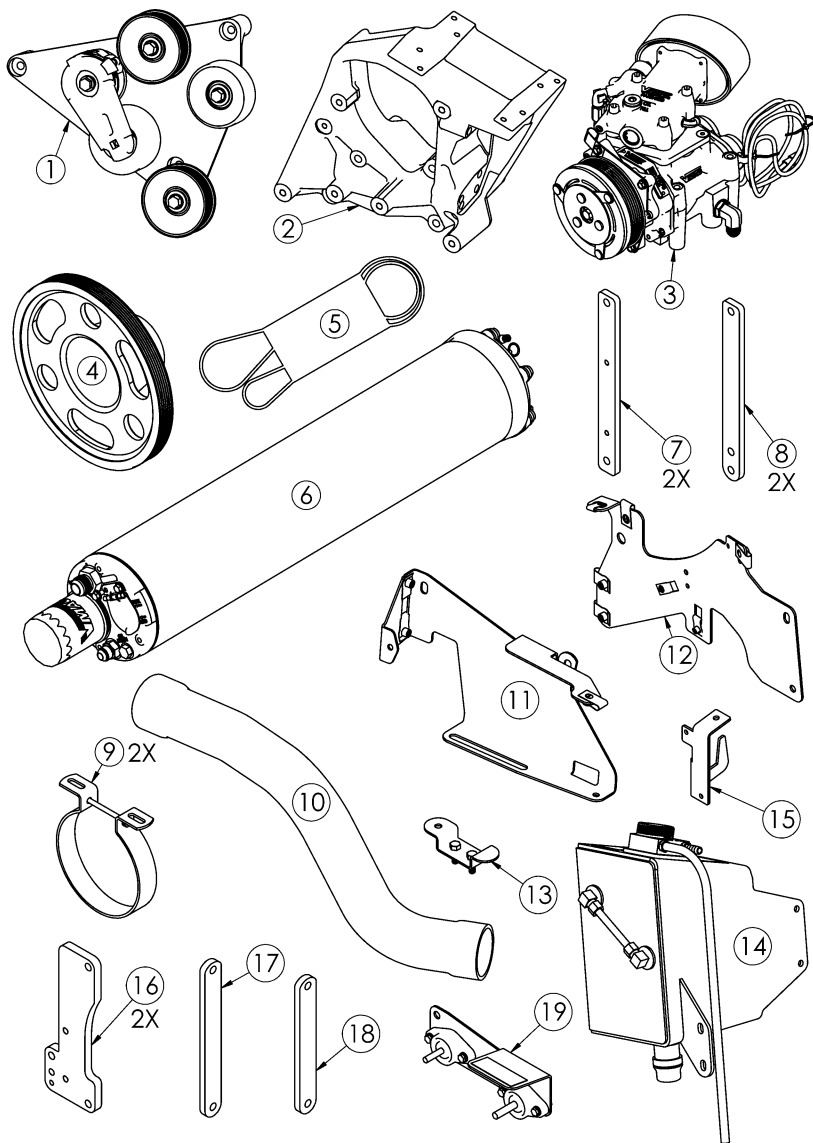


Figure 1 - Kit Pack List

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1. Kit Pack List (cont'd)

Item #	Part #	Qty	Description
20	2200181	1	BATTERY BOX, FORD
21	2200182	1	BATTERY COVER, FORD
22	3551059	1	CABLE, BATTERY RELOC, POSITIVE
23	3551060	1	CABLE, BATTERY RELOC, NEGATIVE
24	1200957	1	BRACKET, WELDMENT, COOLER
25	1720718	1	TUBE, COOLANT, FORD 6.7L
26	1720719	1	TUBE, COOLANT, FORD 6.7L
27	1710878	1	HOSE, MODIFIED (1700658)
28	1700658	1	HOSE, RAD
29	9200569	1	WELDMENT, COOLER
30	3560268	1	VR DTC, U70 FORD 6.7D 2020+
31	3550723	1	VR CONTROL BOX
32	3550947	1	INTERFACE CABLE, 5-WIRE
33	3810102	1	ELEC PACK, U70/150, MX64 PEDAL
34	1752044	1	HOSE, CRIMPED, 1/2" X 44"
35	1752085	1	HOSE, CRIMPED, 1/2" X 85"
36	1771090	1	HOSE, CRIMPED, 3/4" X 90"
37	1201116	3	BRACKET, RUNNING BOARD, FORD
38	1700027	48.0	HOSE, HEATER 150 PSI 5/8
39	1720717	1	TUBE, HOT SIDE, CAC
40	3801372	1	FAST PACK, FORD 6.7D, VR70 SPEC
41	3801373	1	FAST PACK, FORD 6.7D, VR70/150
42	1930060	1	MANUAL, OWNERS GENERIC, VR70 & 150
43	1930421	1	MANUAL, INSTALL, V900160
44	1930422	1	ILLUSTRATED PARTS LIST, V900160
45	4800842	1	SYS ID & OP INSTR, F6.7D, VR70
46	A700091	1	OIL, VR, 1L, HIGH PERFORMANCE
47	A700094	1	OIL, VR, 4L, HIGH PERFORMANCE

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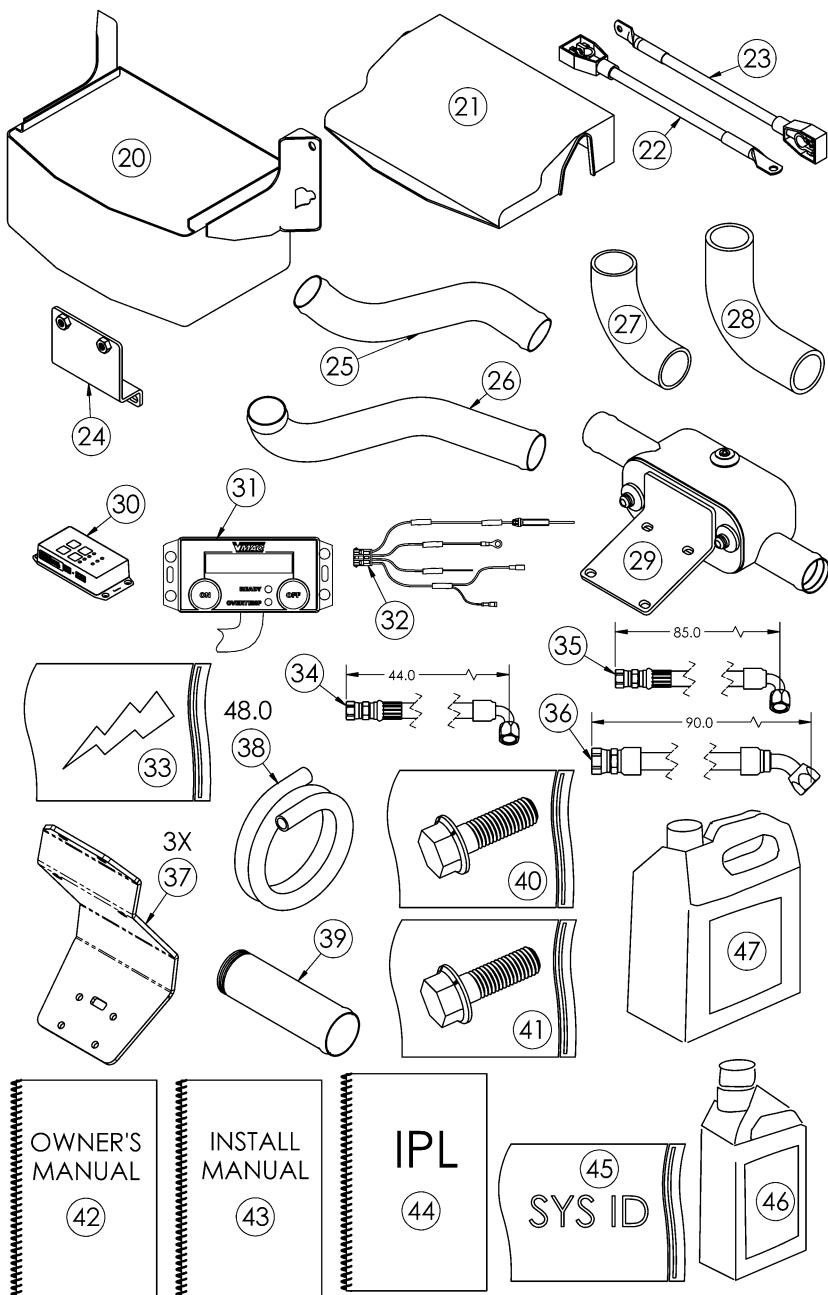


Figure 2 - Kit Pack List (cont'd)

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2. Ford 6.7L VR70 Fastener Pack, 3801372

Item #	Part #	Qty	Description
1	3800736	1	FAST PACK, AIR END
1.1	1540521	4	BOLT, SHCS, PL, M8 X 1.25 X 110
2	3801161	1	FASTENER PACK, TANK
2.1	1510539	4	BOLT, HHCS NC FUL-PL 3/8 X 6 IN
2.2	1550504	4	NUT, FLANGE LOCK NC, CASE HARDN 3/8
2.3	1570044	4	WASHER, ALLOY PL SAE, 3/8
2.4	1510349	4	BOLT, HHCS NC G8 PL, 5/16 X 1/2
3	3801397	1	FASTENER PACK, COOLER
3.1	1560512	2	NUT, FLANGE PL, M10 X 1.5
3.2	1520150	2	BOLT, HHCS G10.9, M10 X 1.5 X 70
3.3	1520013	2	BOLT, HHCS G10.9, M10 X 1.5 X 35
3.4	1570236	4	WASHER, SPLIT LOCK, 7/16
3.5	2200027	6	CLAMP, HOSE HS32
3.6	2200131	2	CLAMP, C.R.I., 1
3.7	1560532	2	NUT, CLIP, M6 X 1.0
3.8	1520590	2	BOLT, HHCS, M6 X 1.0 X14 FL PL
3.9	1700643	10.0	LOOM, MESH, 2" - 3"
3.10	2200018	4	TIE, NYLON MD, 11
3.11	3200526	1	PLUG, BARB, 5/8"
3.12	2200029	2	CLAMP, HOSE HS10
4	3801398	1	FASTENER PACK, TEFLON HOSE
4.1	1700570	137.0	TUBE, TEFLON, PTFE, 1/4"OD
4.2	1700571	139.0	TUBE, TEFLON,PTFE, 3/16"OD X 1/8"ID
4.3	1700581	136.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
4.4	1700581	138.0	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
4.5	2200039	10	TIE, NYLON MD, 7"
5	3801399	1	FASTENER PACK, HOSE ROUTING
5.1	2200083	4	CLAMP, C R.I., 1 1/4
5.2	2200018	10	TIE, NYLON MD, 7"
5.3	2200027	1	CLAMP, HOSE HS32
5.4	2200131	1	CLAMP, C.R.I., 1
5.5	1201124	2	BRACKET, 90 DEGREE
5.6	1520570	3	BOLT,HHCS FL LK PL, M8 X 1.25 X 16
5.7	1520591	1	BOLT,HHCS, M8-1.25 X 25,G10.9 FL PL
5.8	1560515	6	NUT, M8 X 1.25 FL PL

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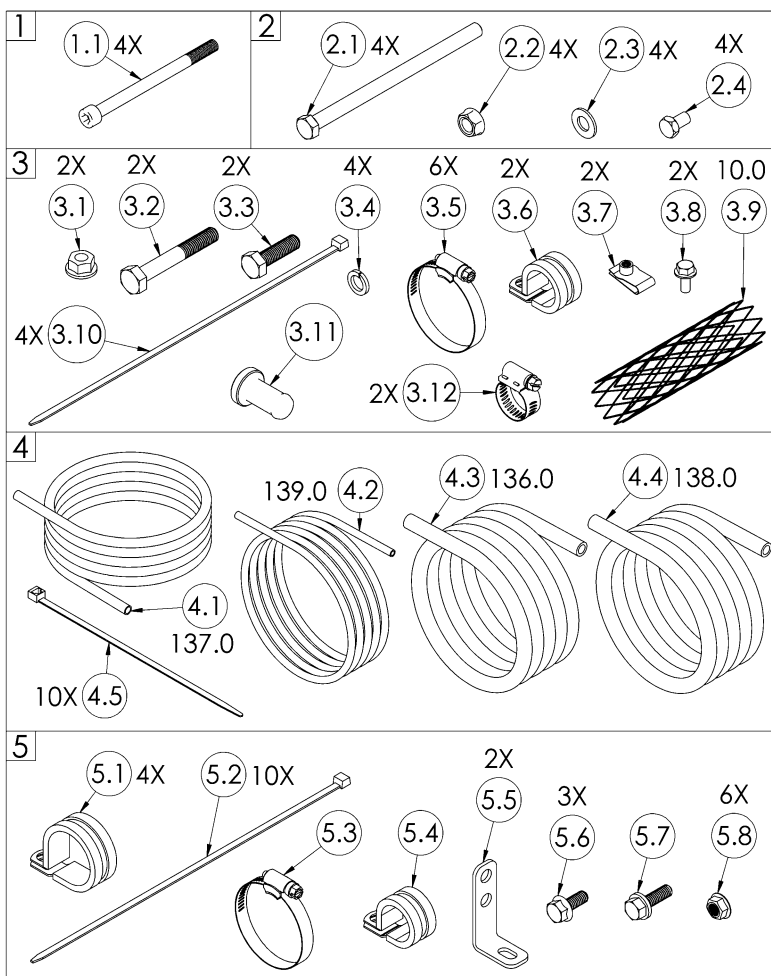


Figure 3 – Ford 6.7L VR70 Fastener Pack

3. Ford 6.7L VR70/150 Common Fastener Pack, 3801373

Item #	Part #	Qty	Description
1	3801176	1	FASTENER PACK, FEAD BRACKET
1.1	1520552	3	BOLT, HHCS, FLHD, M10 X 1.50 X 60
2	3801184	1	FASTENER PACK, FAN SPACER
2.1	1400330	1	SPACER, FAN WIRE
2.2	1520589	1	BOLT, HHCS, PL, GR10.9, M8X1.25X 170MM
2.3	1570067	1	WASHER, SAE, 5/16
2.4	3400070	1	SPACER, FAN, M40X2.0 RH
3	3800772	1	FASTPACK, CRANK PULLEY
3.1	1520585	4	BOLT, HCS, M12-1.5 X 60, GR10.9
3.2	1570492	4	WASHER, FLAT, M12, PLATED
4	3801376	1	FASTENER PACK, CAC RELOCATION
4.1	1520627	7	BOLT, HHCS, FL PL, M8 X 1.25 X 20
4.2	2200178	1	CLAMP, 5/8, CUSHION
4.3	1520590	1	BOLT, HHCS, M6 X 1.0 X 14 FL PL
5	3801377	1	FASTENER PACK, DEGAS TANK
5.1	2200047	3	CLAMP, HOSE HS16
5.2	4900153	1	CONN, HOSE BARB 1" PLATED
5.3	1700034	10.0	HOSE, HEATER BLACK, 150 PSI, 1
5.4	1700643	8.0	LOOM, MESH, 2" - 3"
5.5	2200039	2	TIE, NYLON MD, 7"
5.6	2200062	1	CLAMP, HOSE HS24
6	3800983	1	FASTENER PACK, STEERING RES BRACKET
6.1	1520590	3	BOLT, HHCS, M6 X 1.0 X 14 FL PL
6.2	1560438	3	NUT, NYLOCK, M6
6.3	1570491	1	WASHER, FLAT, M6, PLATED
6.4	1570498	2	WASHER, FENDER, 1/4 X 1
7	3801380	1	FASTENER PACK, CAC COOLANT
7.1	2200083	1	CLAMP, C R.I., 1 1/4
7.2	2200048	6	CLAMP, HOSE HS12
7.3	5300066	1	CONN, STR, 3/4" BARB
7.4	5300067	1	CONN, 90 DEG, 3/4" BARB
7.5	1700177	24.5	HOSE, HEATER, 3/4
7.6	2200210	1	CLAMP, STRAP, 1 1/2
7.7	2200064	1	CLAMP, STRAP 7/8
7.8	1520590	1	BOLT, HHCS, M6 X 1.0 X 14 FL PL
7.9	1700648	15.0	LOOM, MESH, 1"
7.10	1700648	4.0	LOOM, MESH, 1"
7.11	2200039	4	TIE, NYLON MD, 7"
8	3801186	1	FASTENER PACK, CAC DUCT
8.1	1700640	1	HOSE, 2.5" SILICONE
8.2	2200252	2	CLAMP, HD GEAR, 2.50-3.00
8.3	1500709	1	RING, SNAP, ROUND WIRE, 2.5"
9	3801166	1	FASTENER PACK, ABS HCU RELOCATION
9.1	1200941	1	PLATE, ABS HCU, RELOCATION
9.2	1540565	1	BOLT, FLHD SCKT M8X1.25X30, GR10.9 PLT

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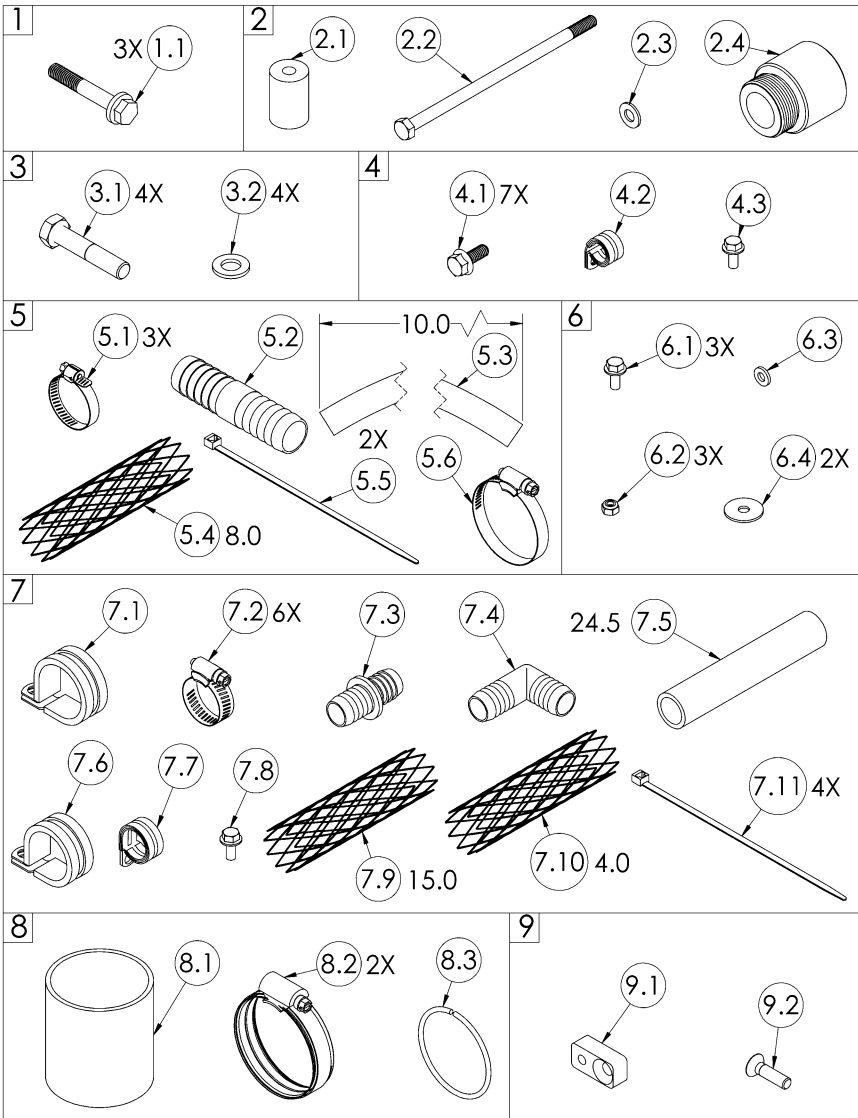


Figure 4 – Ford 6.7L VR70/150 Common Fastener Pack

3. Ford 6.7L VR70/150 Common Fastener Pack, 3801373 (cont'd)

Item #	Part #	Qty	Description
10	3801378	1	FAST PACK, WASHER BOTTLE
10.1	1570067	3	WASHER, SAE, 5/16
10.2	1560407	3	NUT, NYLOCK, M8
10.3	1520627	3	BOLT, HHCS, FL PL, M8 X 1.25 X 20
10.4	2200018	3	TIE, NYLON MD, 11
10.5	1700029	8.0	LOOM, SPLIT PLASTIC, ½
10.6	2200147	1	CLAMP, C R.I., 2"
11	3801374	1	FAST PACK, BATTERY
11.1	1560532	2	NUT, CLIP, M6 X 1.0
11.2	1520583	2	BOLT, HHCS, FL, M6 X 1.0 X 20
11.3	2200183	1	BOLT AND SPACER, BATTERY, FORD
11.4	1520629	4	BOLT, HHCS, GR10.9, PL, FL, M10X 1.5X 16
11.5	1520601	2	BOLT, HHCS FL PL, M8 X 1.25 X 12
11.6	1520598	2	BOLT, HHCS, ZNPL M10 X 1.5 X 130
11.7	1520537	2	BOLT, HHCS G10.9, M10 X 1.5 X 150
11.8	1560512	4	NUT, FLANGE PL, M10 X 1.5
11.9	3200456	1	POST, BATT, POS, BRASS
11.10	1570491	1	WASHER, FLAT, M6, PLATED
11.11	1560516	3	NUT, M6 X 1.0 FL PL
11.12	1570032	1	WASHER, SERR, 3/8
11.13	2200018	10	TIE, NYLON MD, 11
11.14	2200164	5	TIE, NYLON, BLACK, 8"
11.15	1700622	172.0	LOOM, SPLIT PLASTIC, 5/8, HIGH TEMP
11.16	3200455	1	POST, BATT, NEG, BRASS
11.17	1570260	1	WASHER, INT SERR LOCK, 5/16
11.18	1550533	1	NUT, HEX, SS, 3/8-16
11.19	1570511	2	WASHER, FLAT, SS, 3/8
11.20	1520642	1	BOLT, HHCS, M6 X 1.0 X 16MM FL
12	3801379	1	FAST PACK, OEM HARNESS
12.1	2200018	9	TIE, NYLON MD, 11
12.2	1700029	18.0	LOOM, SPLIT PLASTIC, 1/2
12.3	1700581	8.0	LOOM, SPLIT, PLASTIC, 1/4, HIGH TEMP
13	3801395	1	FAST PACK, ALTERNATOR HARNESS
13.1	1570519	1	WASHER, EXT SERRATED LOCK, M8
13.2	1530529	1	BOLT, SHCS NC, 5/16 X 1/2, BUTTON
13.3	1550066	1	NUT, HEX, NC, 5/16
13.4	3501244	3.3	HEATSHRINK, DUAL WALL, 3/4", RED
13.5	3551064	1	CABLE, ALTERNATOR, POSITIVE

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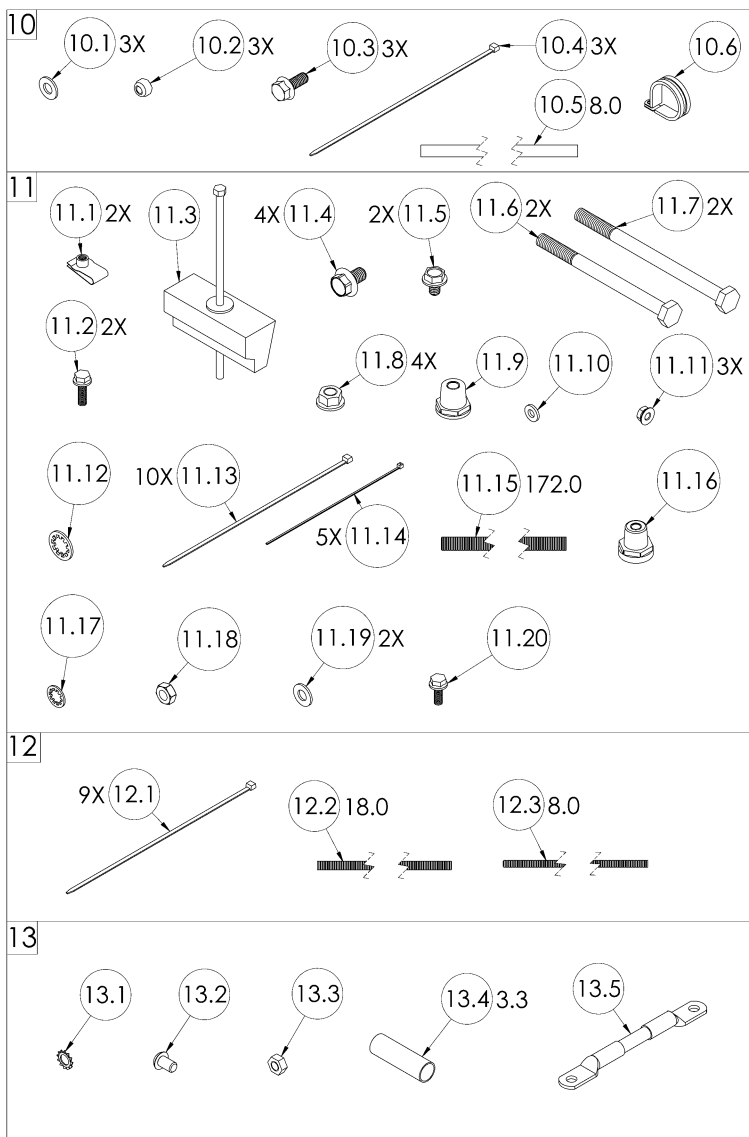


Figure 5 – Ford 6.7L VR70/150 Common Fastener Pack (cont'd)

4. Compressor Assembly, P120217

Item #	Part #	Qty	Description
1	P120173	1	ASSEMBLY, COMPRESSOR
2	9200579	1	INLET VALVE, BASIC INTEGRATED REG-H
3	3501037	1	SENSOR, PRESSURE, 200PSI
4	5000121	1	TEE, STREET, EXTRUDED, 1/8
5	1540550	1	BOLT,SHCS,M8 X 1.25 X 50, G12.9 PLT
6	1540530	2	BOLT,SHCS,M8 X 1.25 X 55, G12.9 PLT
7	1540544	1	BOLT, SHCS, M8 X 1.25 X 75 PLT
8	5000165	1	ELBOW,90, BRASS NPT-POLY, 1/8-3/16
9	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
10	5000055	1	ELBOW, BRASS STREET, 1/8
11	4300076	2	PIPE FTG, PLUG SKT HEAD, 1/8
12	5830004	2	O-RING, VITON, 3 1/8 ID X 1/8
13	P200044	1	CLUTCH, COMPLETE, 6 GROOVE, 5.12
14	9200495	1	ADAPTER, INLET VALVE
15	1540526	1	BOLT, SHCS, M8 X 1.25 X 20
16	1570502	1	WASHER, M8, COPPER SEALING
17	1520566	2	BOLT,FLAT HEAD, PL M8 X 1.25 X 20MM
18	4900203	1	CONN, STEEL, 90, #8 MJIC - #8 MORB
19	3550682	1	PROBE, ASSY, THERMISTOR, SHORT

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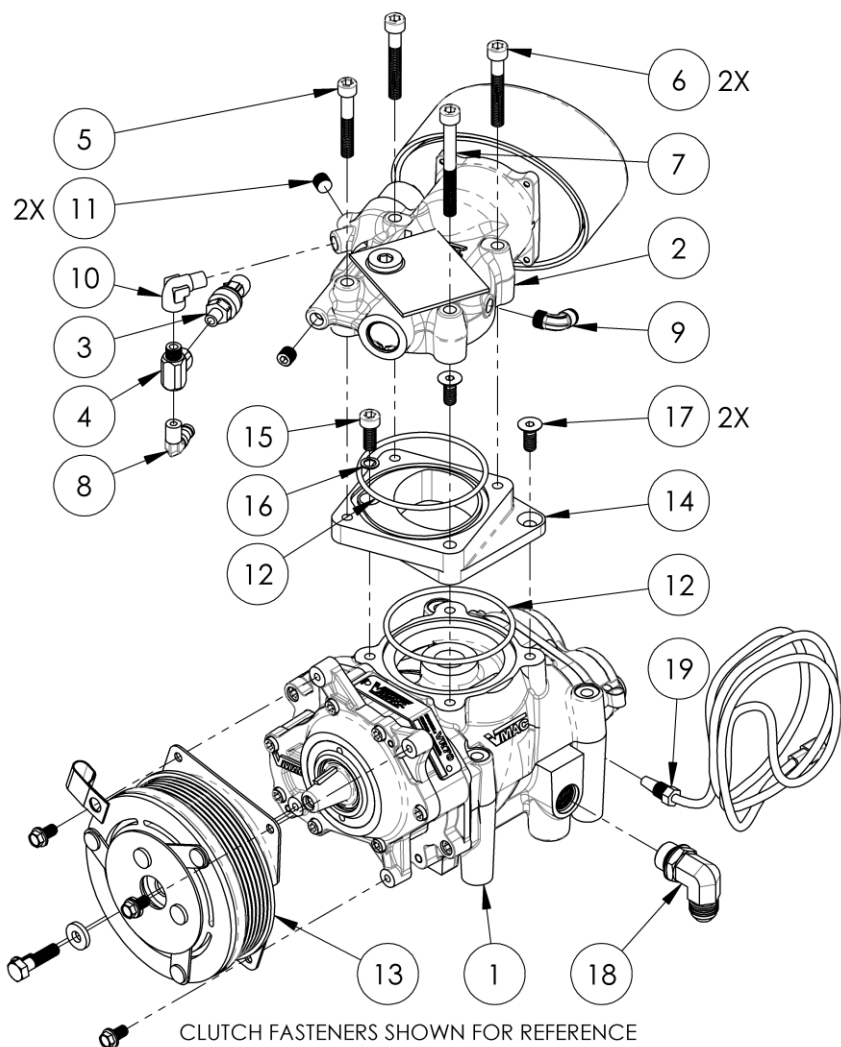


Figure 6 – Compressor Assembly

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5. Base Compressor Assembly, P120173

Item #	Part #	Qty	Description
1	A700239	1	FRONT GEAR CASE ASSEMBLY
1.1	A700161	1	ASSEMBLY, SEAL RETAINER
1.2	5830023	1	O-RING, VITON, 4 1/4 ID X 3/32
2	P200044	1	CLUTCH, COMPLETE, 6 GROOVE, 5.12
3	3550682	1	PROBE, ASSY, THERMISTOR, SHORT

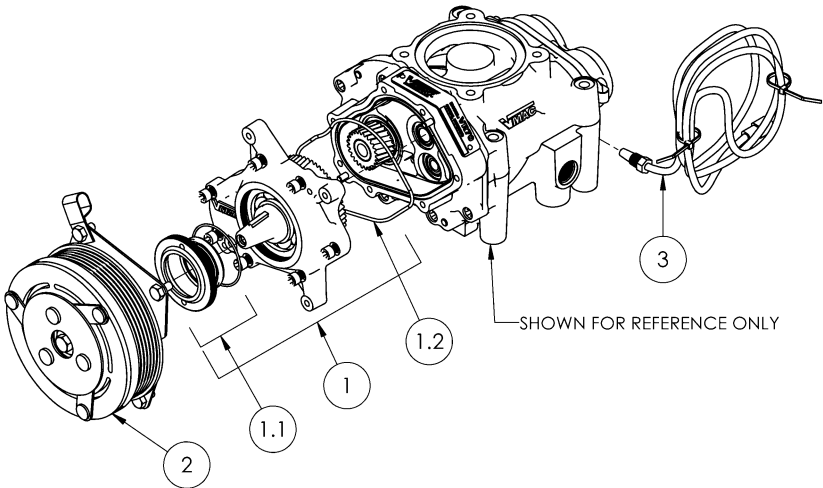


Figure 7 – Base Compressor Assembly

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6. Inlet Valve Sub Components, 9200579

Item #	Part #	Qty	Description
1	A700137	1	ACCESSORY PACK, REGULATOR ASSEMBLY
2	4900045	1	PLUG, STEEL HEX SAE/O-RING PORT
3	5830002	1	O-RING, VITON, 2 3/8 ID X 3/32
4	5830130	1	O-RING, VITON, 1 3/8 ID X 3/16
5	A700049	1	FILTER KIT ASSEMBLY
5.1	1500077	4	SCREW, BUTTON HEAD, 10 - 32 X 3/8
5.2	1500519	1	ROD, THREADED, 1/4 X 2.62
5.3	1550029	1	NUT, NYLOCK NC, 1/4
5.4	1550221	1	NUT, HEX NC PL, 1/4, GR8
5.5	3200205	1	PLATE, INNER FILTER
5.6	3600037	1	ELEMENT, FILTER, PAPER
5.7	3600066	1	COVER, AIR FILTER, PLASTIC
5.8	5830070	1	O-RING, VITON, 2 9/16 ID X 3/32
5.9	1570038	1	WASHER, FLAT SAE, 1/4

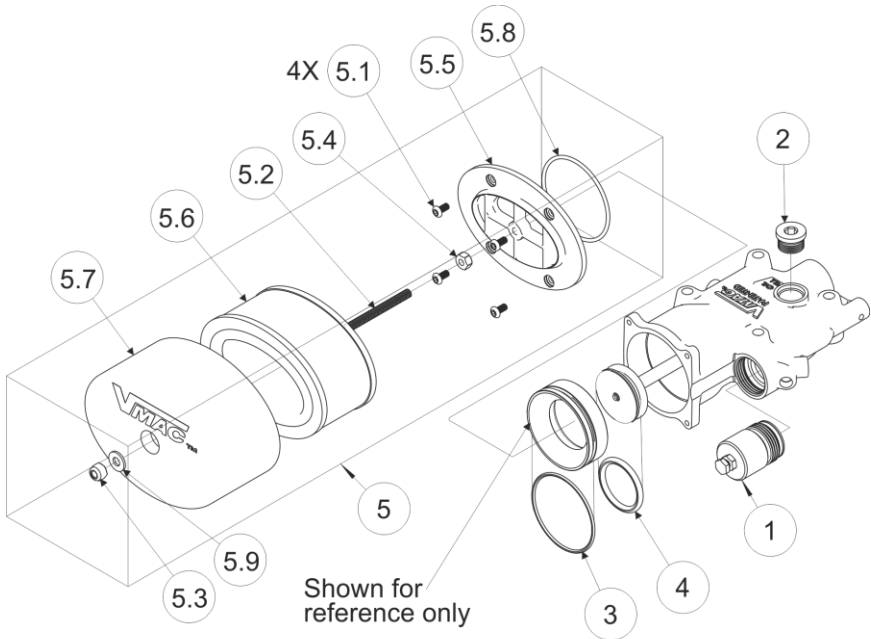


Figure 8 – Inlet Valve Sub Components

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7. FEAD and Main Bracket Assembly, 4800753 and 1100231

Item #	Part #	Qty	Description
1	1100231	1	BRACKET, MAIN, FORD 6.7L PS V8
2	4800753	1	ASSY, FEAD BRACKET, FORD 6.7L
2.1	1100230	1	BRACKET, FEAD, FORD 6.7L PS V8
2.2	2600135	1	TENSIONER, MODIFIED (3300036)
2.3	1300031	1	IDLER, SERP, BACK, FLANGE, 90MM
2.4	1300030	2	IDLER, SERP, 6 RIB, FLANGE, 90MM
2.5	1520552	1	BOLT, HHCS, FLHD, M10 X 1.50 X 60
2.6	1570496	3	WASHER, FENDER, 10MM X 30MM
2.7	1520563	3	BOLT, HHCS FLPL G8.8 M10 X1.50 X 25
3	1520552	3	BOLT, HHCS, FLHD, M10 X 1.50 X 60

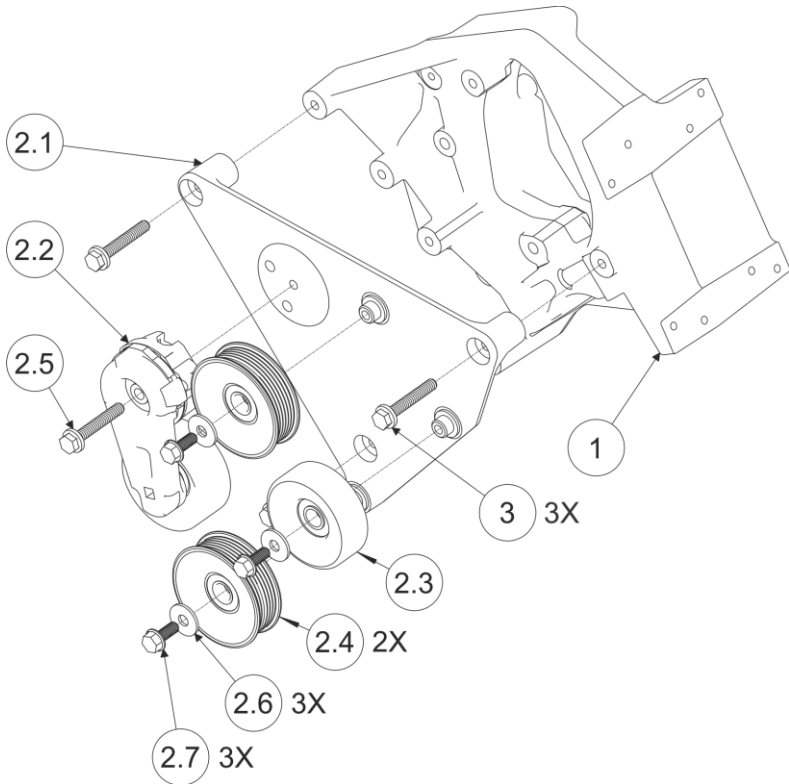


Figure 9 – FEAD and Main Bracket Assembly

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8. Cooler Assembly, 9200569

Item #	Part #	Qty	Description
1	9200569	1	WELDMENT, COOLER
2	1200957	1	BRACKET, WELDMENT, COOLER
3	1520150	2	BOLT, HHCS G10.9, M10 X 1.5 X 70
4	1520013	2	BOLT, HHCS G10.9, M10 X 1.5 X 35
5	1560512	2	NUT, FLANGE PL, M10 X 1.5

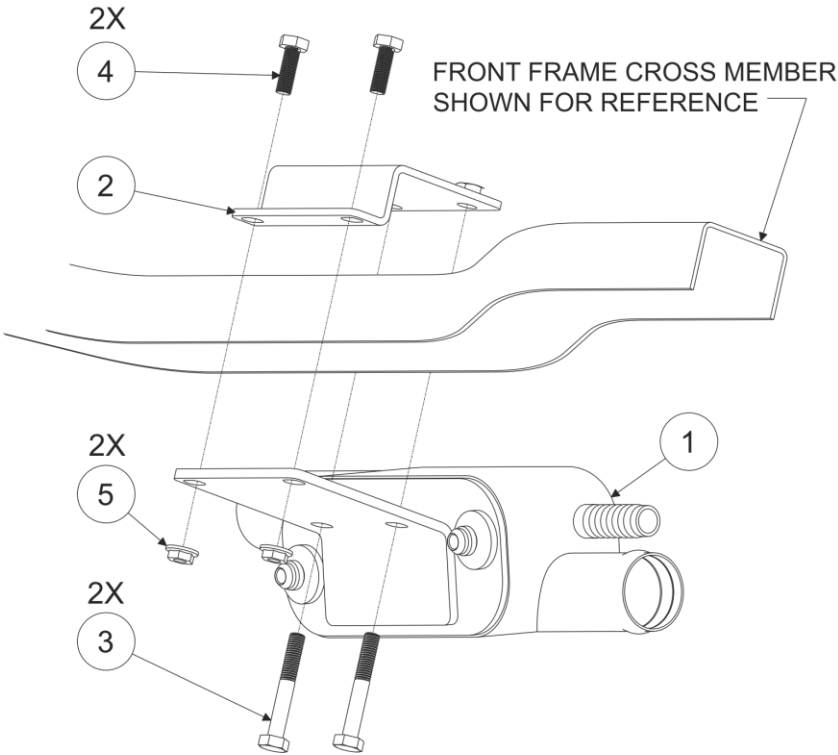


Figure 10 – Cooler Assembly

9. 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

VMAC – Vehicle Mounted Air Compressors

Sales: 877-912-6605

Tech: 888-241-2289

Fax: 877-740-3202

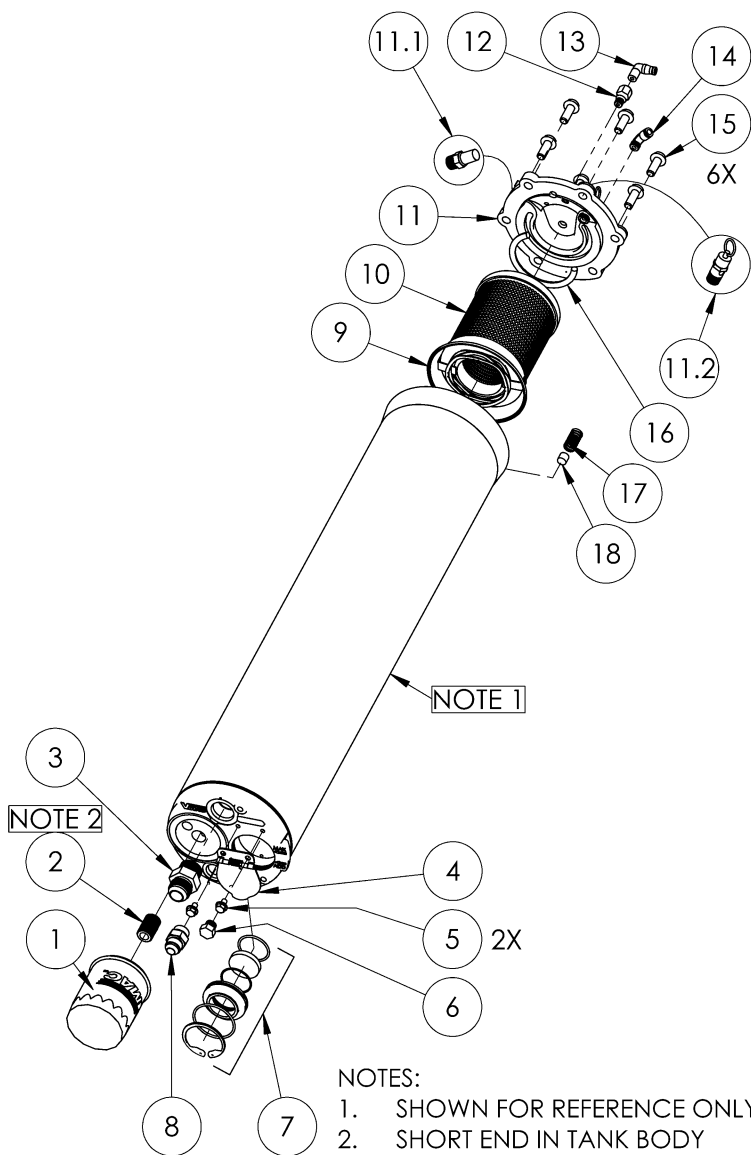


Figure 11 – VR70 Tank

10. 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

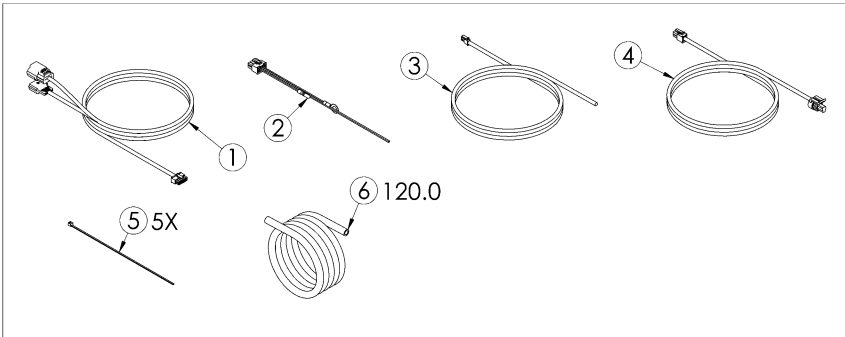


Figure 12 – Electrical Pack

VMAC – Vehicle Mounted Air Compressors

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Manufactured by



888-241-2289



877-740-3202



<http://www.vmacair.com>



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