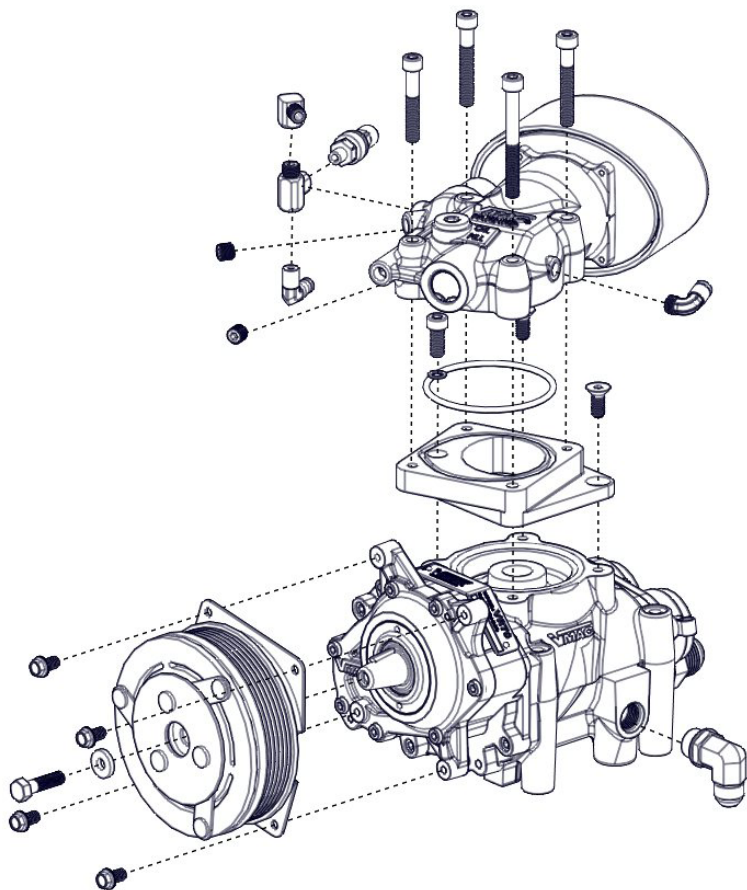


***UNDERHOOD™* 150**

AIR COMPRESSORS



Illustrated Parts List for VMAC System

V910030

**2020 – 2022 Ford Super Duty® F-250 – F600
6.7 L Diesel V8**

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Illustrated Parts List for VMAC System V910030

VR150, FORD 2020 – 2022 F250-F600 6.7L

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NOTE: Drawings are not to scale.

Document 1930420 – Changes and Revisions

Document 100-420 - Changes and Revisions							
Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
B	ECN 21-059: BATTERY BRACKET UPDATE	TBC	BJG	N/A	DMK	LPH	09APR2021
C	ECN 21-146 Add F600 to application	MSP	N/A	N/A	MSP	N/A	10 Aug. 2021
D	ECN: 23-082 Cap Model Year	MSP	N/A	N/A	MSP	N/A	14 Apr. 2023
E	ECN: 23-089 ADDED 1520642 BOLT TO 3801374. ADD COMP SUB ASSY PAGE	CAM	KRM	TDF	DSB	TK	31 MAY 2023

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1. Kit Pack List

Item #	Part #	Qty	Description
1	4800762	1	ASSY, FEAD BRACKET, FORD 6.7L
2	1100231	1	BRACKET, MAIN, FORD 6.7L PS V8
3	P140061	1	ASSEMBLY, COMPRESSOR
4	1800211	1	PULLEY, CRANK, FORD 6.7 VR150
5	1620366	1	BELT, K080915
6	9210050	1	TANK, VR150 DRESSED
7	1200923	1	MOUNT, TANK
8	1200924	3	BACKING STRAP, TANK
9	1200960	1	MOUNT, TANK, FRONT
10	2200149	2	CLAMP, MOUNTING BRACKET
11	1700657	1	HOSE, CAC, COLD SIDE
12	4800840	1	ASSY, RELOCATION, CAC, FORD 6.7
13	4800835	1	ASSY, BRACKET, DEGAS TANK, FORD 6.7
14	1201111	1	BRACKET, WASHER BOTTLE, FORD 6.7
15	4800836	1	ASSEMBLY, DEGAS TANK, FORD 6.7
16	1200793	1	BRACKET, STEERING RESERVOIR
17	1200976	2	BRACKET, BATT BOX MOUNT, FRONT
18	1200977	1	STRAP, BATT BOX MOUNT, RIGHT, FRONT
19	1200978	1	STRAP, BATT BOX MOUNT, LEFT, FRONT
20	4800837	1	ASSEMBLY, BATTERY POST RELOC

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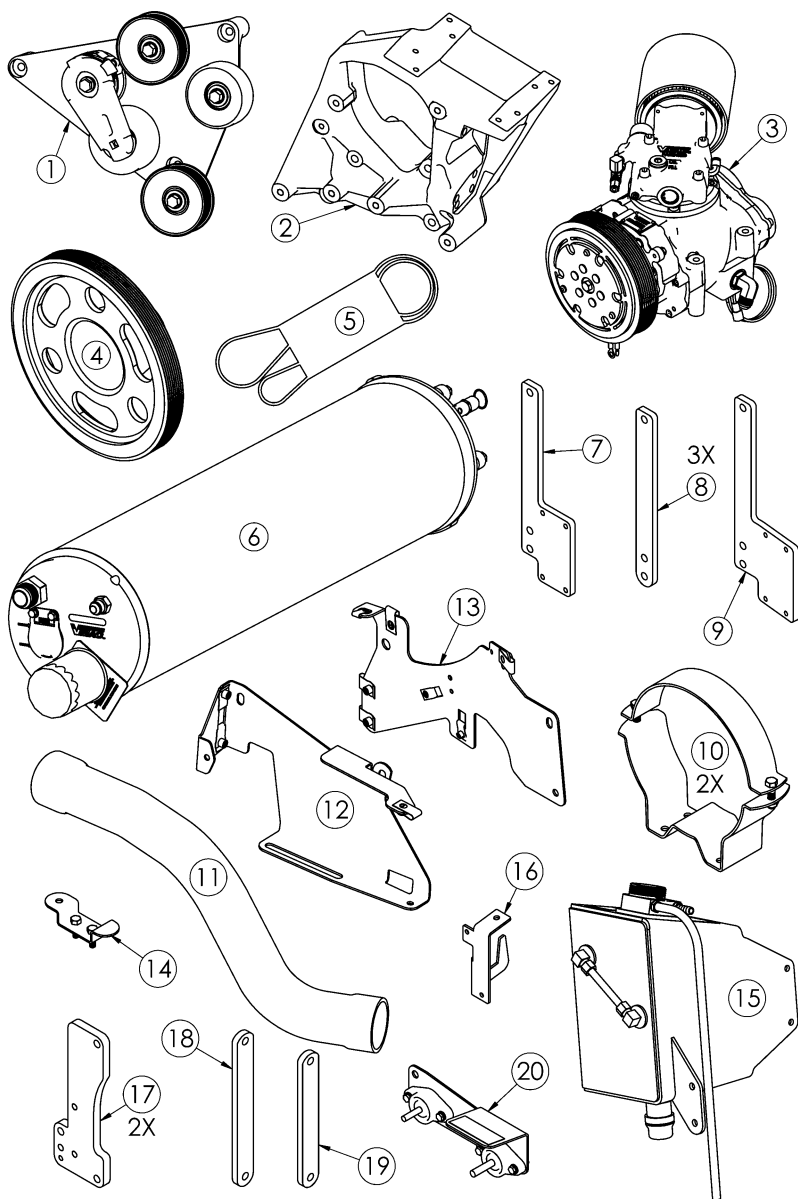


Figure 1 - Kit Pack List

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1. Kit Pack List (cont'd)

Item #	Part #	Qty	Description
21	2200181	1	BATTERY BOX, FORD
22	2200182	1	BATTERY COVER, FORD
23	3551060	1	CABLE, BATTERY RELOC, NEGATIVE
24	3551059	1	CABLE, BATTERY RELOC, POSITIVE
25	1201095	1	BRACKET, COOLER MOUNTING
26	1720732	1	TUBE, COOLER OUTLET, FORD 6.7L
27	1720731	1	TUBE, COOLER INLET, FORD 6.7L
28	1710895	1	HOSE, MODIFIED (1700528)
29	1710878	1	HOSE, MODIFIED (1700658)
30	9210172	1	WELDMENT, COOLER
31	3560269	1	VR DTC, U150 FORD 6.7D 2020+
32	3550723	1	VR CONTROL BOX
33	3550947	1	INTERFACE CABLE, 5-WIRE
34	3810102	1	ELEC PACK, U70/150, MX64 PEDAL
35	1752054	1	HOSE, CRIMPED, 1/2" X 54"
36	1752085	1	HOSE, CRIMPED, 1/2" X 85"
37	1781087	1	HOSE, CRIMPED, 1" X 87"
38	1720717	1	TUBE, HOT SIDE, CAC
39	1700027	48.0	HOSE, HEATER 150 PSI 5/8
40	3801369	1	FAST PACK, FORD 6.7D, VR150 SPEC
41	3801373	1	FAST PACK, FORD 6.7D, VR70/150
42	A700250	1	KIT, INBOARD AOST, VR150, FORD
43	1201116	1	BRACKET, RUNNING BOARD, FORD
44	1930060	1	MANUAL, OWNERS GENERIC, VR70 & 150
45	1930419	1	MANUAL, INSTALL, V910030
46	1930420	1	ILLUSTRATED PARTS LIST, V910030
47	4800839	1	SYS ID & OP INSTR, FORD 6.7D, VR150
48	A700091	1	OIL, VR, 1L, HIGH PERFORMANCE
49	A700094	2	OIL, VR, 4L, HIGH PERFORMANCE

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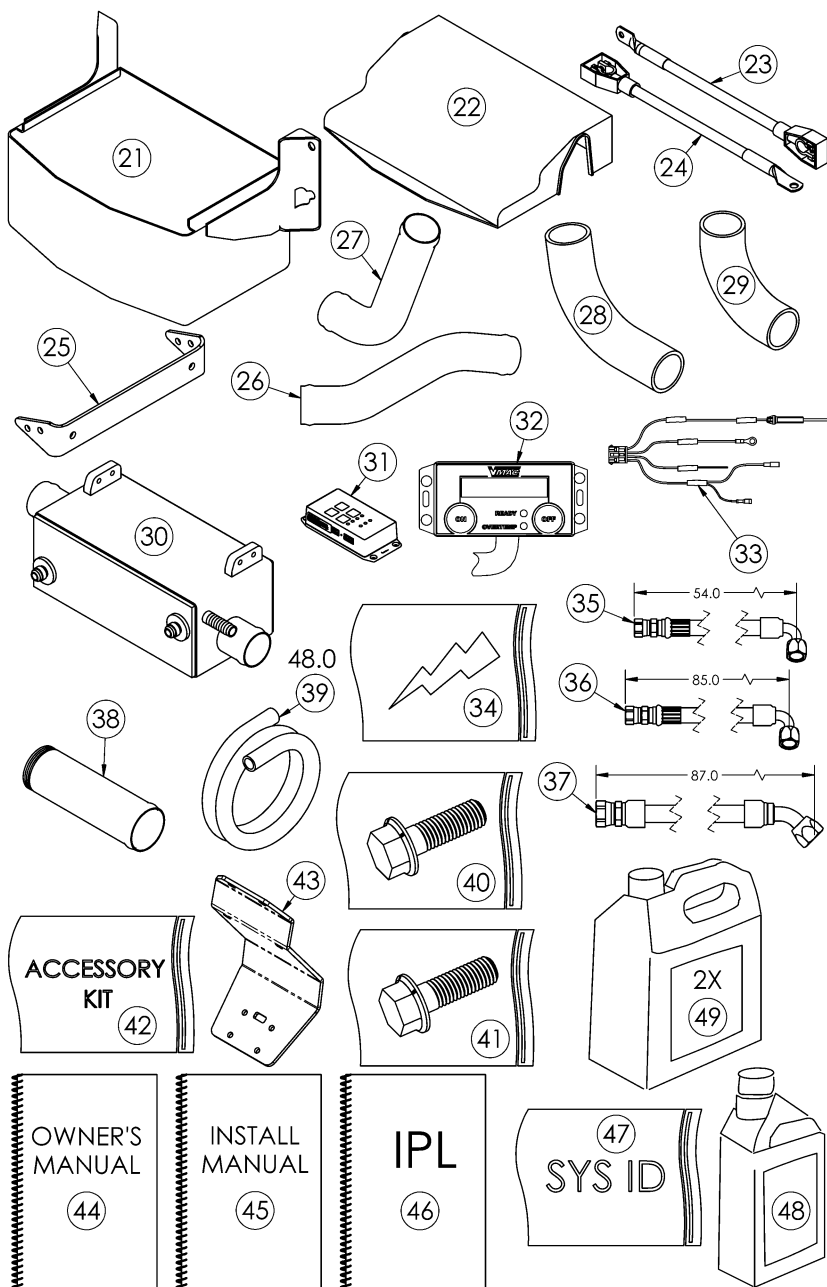


Figure 2 - Kit Pack List (cont'd)

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2. Ford 6.7L VR150 Fastener Pack, 3801369

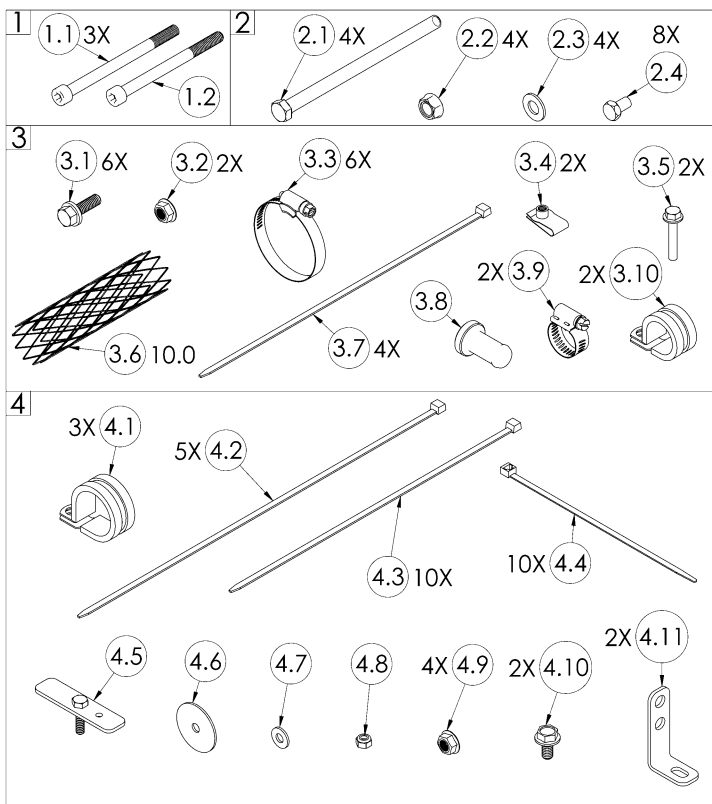
Item #	Part #	Qty	Description
1	3801210	1	FASTENER PACK, COMPRESSOR
1.1	1540521	3	BOLT, SHCS, PL, M8 X 1.25 X 110
1.2	1540495	1	BOLT, SHCS, M8 X 1.25 X 100, G12.9
2	3801168	1	FASTENER PACK, TANK
2.1	1510539	4	BOLT, HHCS NC FUL-PL 3/8 X 6 IN
2.2	1550504	4	NUT, FLANGE LOCK NC, CASE HARDN 3/8
2.3	1570044	4	WASHER, ALLOY PL SAE, 3/8
2.4	1510349	8	BOLT, HHCS NC G8 PL, 5/16 X 1/2
3	3801375	1	FASTENER PACK, COOLER
3.1	1520591	6	BOLT, HHCS, M8-1.25 X 25, G10.9 FL PL
3.2	1560515	2	NUT, M8 X 1.25 FL PL
3.3	2200027	6	CLAMP, HOSE HS32
3.4	1560532	2	NUT, CLIP, M6 x 1.0
3.5	1520590	2	BOLT, HHCS, M6 X 1.0 X 14 FL PL
3.6	1700643	10.0	LOOM, MESH, 2" - 3"
3.7	2200018	4	TIE, NYLON MD, 11
3.8	3200526	1	PLUG, BARB, 5/8"
3.9	2200029	2	CLAMP, HOSE HS10
3.10	2200131	2	CLAMP, C.R.I., 1
4	3801396	1	FASTENER PACK, HOSE ROUTING
4.1	2200210	3	CLAMP, STRAP, 1 1/2
4.2	2200049	5	TIE, NYLON MD, 14"
4.3	2200018	10	TIE, NYLON MD, 11"
4.4	2200039	10	TIE, NYLON MD, 7"
4.5	1200812	1	BRACKET, STRAP
4.6	1570402	1	WASHER, FENDER, 1/4
4.7	1570038	1	WASHER, FLAT SAE, 1/4
4.8	1560438	1	NUT, NYLOCK, M6
4.9	1560515	4	NUT, M8 X 1.25 FL PL
4.10	1520570	2	BOLT, HHCS FL LK PL, M8 X 1.25 X 16
4.11	1201124	2	BRACKET, 90 DEGREE

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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	2200039	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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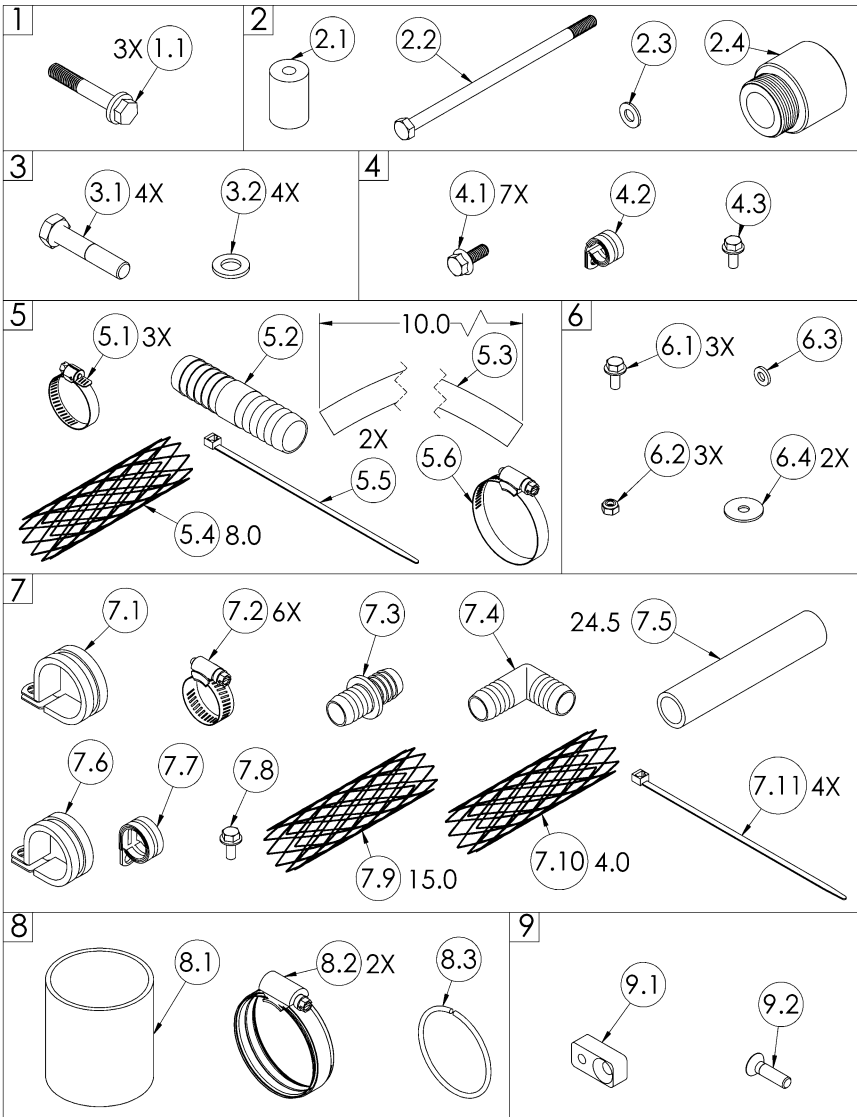


Figure 4 - Ford 6.7L VR70/150 Common Fastener Pack

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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
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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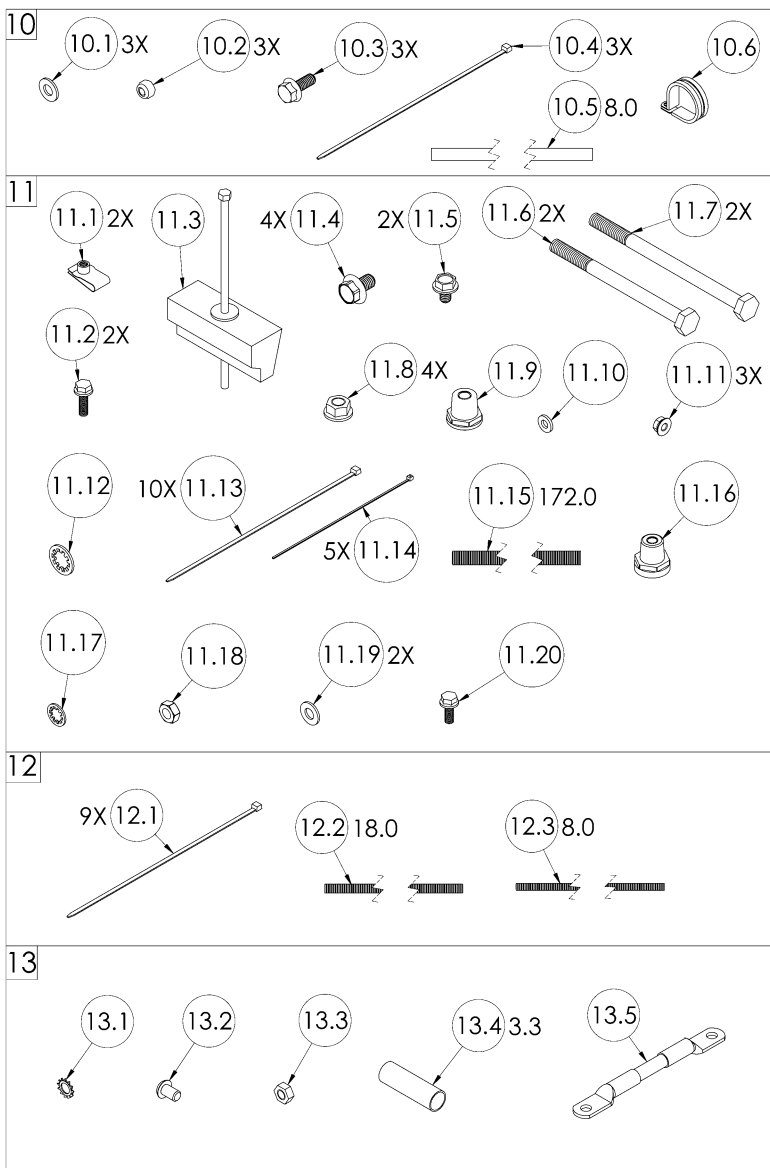


Figure 5 - Ford 6.7L VR70/150 Common Fastener Pack (cont'd)

4. Compressor Assembly, P140061

Item #	Part #	Qty	Description
1	P140051	1	COMPRESSOR, ALUMINUM 150
2	9210165	1	ASSEMBLY, INLET VALVE
3	5000090	1	ELBOW, BRASS, EXTR'D 90 STREET, 1/8
4	4900203	1	CONN, STEEL, 90, #8 MJIC - #8 MORB
5	5000162	1	CONNECT,BRASS NPT-POLY,3/16-1/8 NPT
6	5000137	1	TEE, MALE BRANCH, 1/8" NPT, FORGED
7	5830004	2	O-RING, VITON, 3 1/8 ID X 1/8
8	4900104	1	FTG, STR, #16MORB-#16MJIC, VITON
9	9210122	1	ADAPTOR, INLET VALVE
10	1540389	3	BOLT, SHCS, PLATED, M8 X 1.25 X 18,
11	4300076	2	PIPE FTG, PLUG SKT HEAD, 1/8
12	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
13	1540550	2	BOLT,SHCS,M8 X 1.25 X 50, G12.9 PLT
14	1540530	2	BOLT,SHCS,M8 X 1.25 X 55, G12.9 PLT
15	3501037	1	SENSOR, PRESSURE, 200 PSI
16	1520646	1	BOLT, HHCS G10.9, M6 X 1 X 10 FL PL
17	1570038	1	WASHER, FLAT SAE, 1/4

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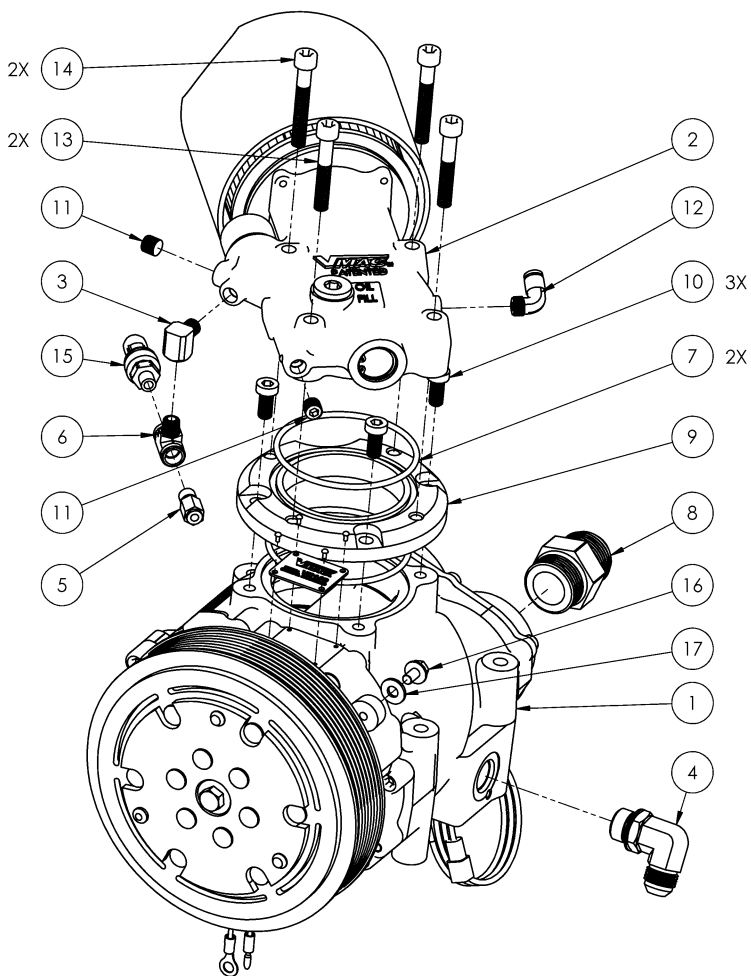


Figure 6 - Compressor Assembly

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5. Compressor Sub Components, P140051

Item #	Part #	Qty	Description
1	3550682	1	TEMPERATURE PROBE
2	A700231	1	VR150 FRONT GEAR CASE ASSEMBLY
3	P200050	1	CLUTCH,REPLACEMENT,8 GROOVE,175FTLB
3.1	P200049	1	CLUTCH, COMPLETE,8 GROOVE, 175FT LB
3.2	3801129	1	FASTENER PACK, VR150 CLUTCH
3.2.1	1510064	1	BOLT, HHCS NF G8 PL, 5/16 X 1 1/4
3.2.2	1570476	1	WASHER, 5/16 ID X 3/4 OD
3.2.3	1500689	3	SCREW,BHSC,PL,M6X1X8MM
3.2.4	1570038	3	WASHER, FLAT SAE, 1/4

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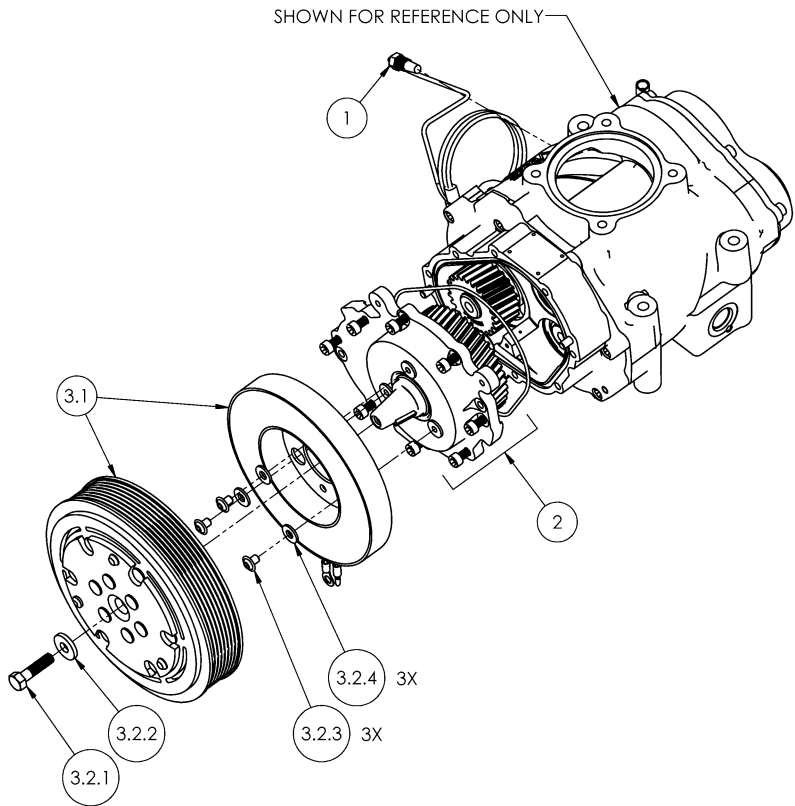


Figure 7 - Compressor Sub Components

6. Inlet Valve Sub Components, 9210165

Item #	Part #	Qty	Description
1	4900045	1	PLUG, STEEL HEX SAE/O-RING PORT
2	3600046	1	KIT, REGULATOR
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	5830070	1	O-RING, VITON, 2 9/16 ID X 3/32
6	3200288	1	PLATE, INNER FILTER ALUM
7	1500077	4	SCREW, BUTTON HEAD, 10 - 32 X 3/8
8	1550029	1	NUT, NYLOCK NC, 1/4
9	1570038	1	WASHER, FLAT SAE, 1/4
10	3600068	1	CAP, FILTER
11	3600072	1	ELEMENT, FILTER, PAPER
12	1550529	1	NUT, FLANGE, 1/4-20
13	1400200	1	SPACER
14	1500532	1	ROD, THREADED, 1/4 X 5.62"

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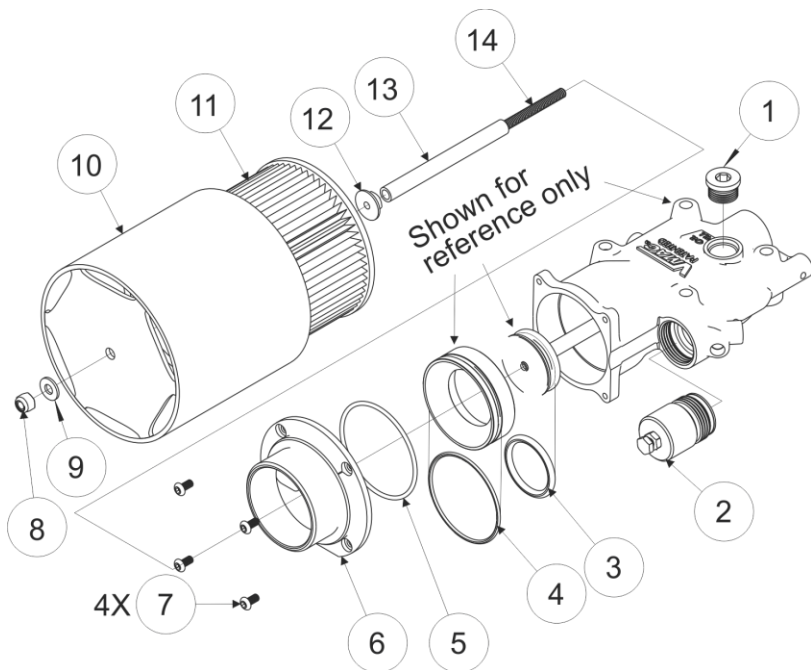


Figure 8 - Inlet Valve Sub Components

7. FEAD and Main Bracket Assembly, 4800762 and 1100231

Item #	Part #	Qty	Description
1	1100231	1	BRACKET, MAIN, FORD 6.7L PS V8
2	4800762	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	1300010	1	IDLER, SERP 8 RIB BACK STEEL
2.4	1300023	2	IDLER, PULLEY 8 RIB, 3.5
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

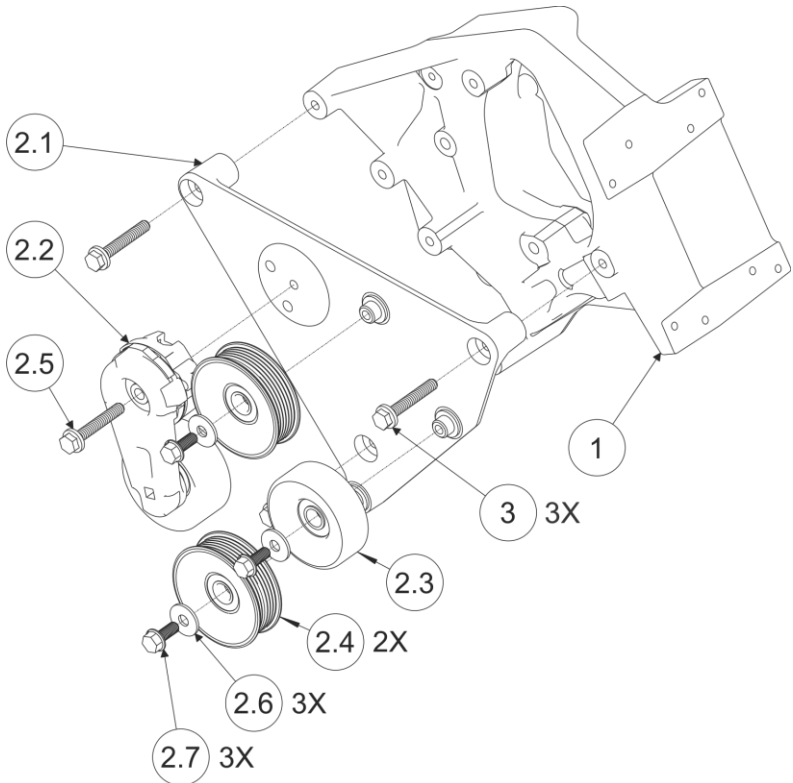


Figure 9 - FEAD and Main Bracket Assembly

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8. Cooler Assembly, 9210164

Item #	Part #	Qty	Description
1	9210172	1	WELDMENT, COOLER
2	1201095	1	BRACKET, COOLER MOUNTING
3	1520591	6	BOLT, HHCS, M8-1.25 X 25,G10.9 FL PL
4	1560515	2	NUT, M8 X 1.25 FL PL

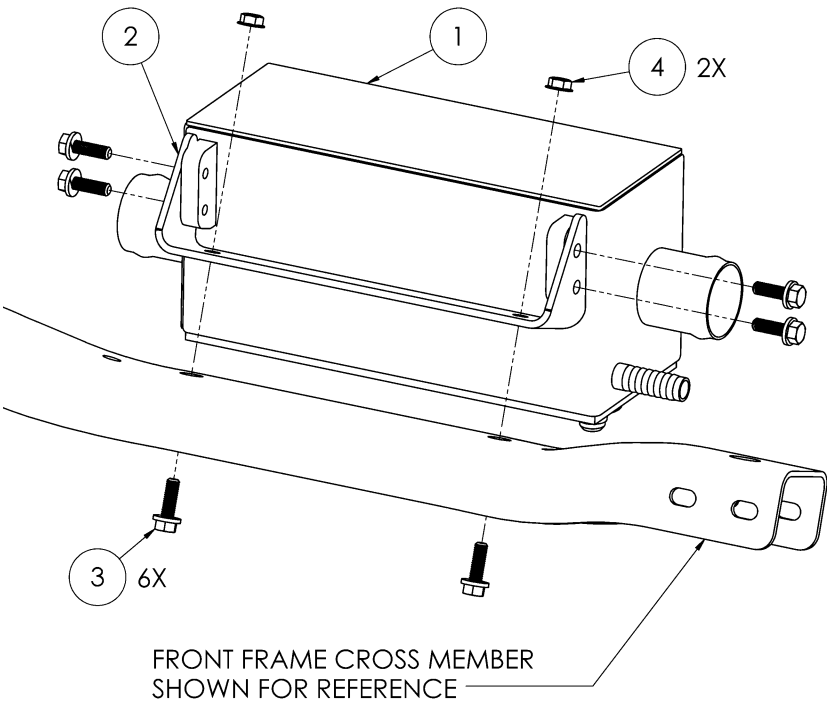


Figure 10 - Cooler Assembly

9. Tank, VR150, 9210050

Item #	Part #	Qty	Description
1	9210040	1	TANK, WELDMENT, VR150
2	4100358	1	COALESCER SPRING PLATE
3	5840068	1	SPRING, COMPRESSION, 2.187 OD X 5
4	3600071	1	ELEMENT, SEP, COALESCING
5	5830123	1	O-RING, VITON, 7 ID X 1/8
6	3600075	1	SEAL, TANK REAR CAP
7	9210028	1	CAP, BLOWDOWN VR150
7.1	3200226	1	BLOWDOWN CAP, VR150
7.2	4500104	1	MUFFLER, SINTERED EXHAUST, 1/8"
7.3	3600073	1	VALVE, SAFETY, 3/8, 200 PSI
8	5000165	1	ELBOW,90, BRASS NPT-POLY, 1/8-3/16
9	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
10	1570009	6	WASHER, SPLIT LOCK, 3/8
11	1510016	6	BOLT, HHCS NC G8 PL, 3/8 X 1 1/2
12	5840069	1	SPRING, COMPRESSION, FL 1.5",OD .54
13	3600090	1	THIMBLE, SCREEN
14	4900106	1	PLUG, STEEL, #5 ORB, HEX (VITON-O)
15	4900035	1	NIPPLE, STEEL STR THRD, 3/4 - 16
16	9200039	1	OIL FILTER, VR 3.250 SHORT
17	4900200	1	CONN, STRAIGHT, #8 MORB X #8 MJIC
18	4900104	1	CONNECTOR, STEEL, #16 ORB - #16 JIC
19	1520646	2	BOLT, HHCS G10.9, M6 X 1 X 10 FL PL
20	5800142	1	COVER, SIGHT GLASS
21	A700061	1	PYREX WINDOW KIT

VMAC – Vehicle Mounted Air Compressors

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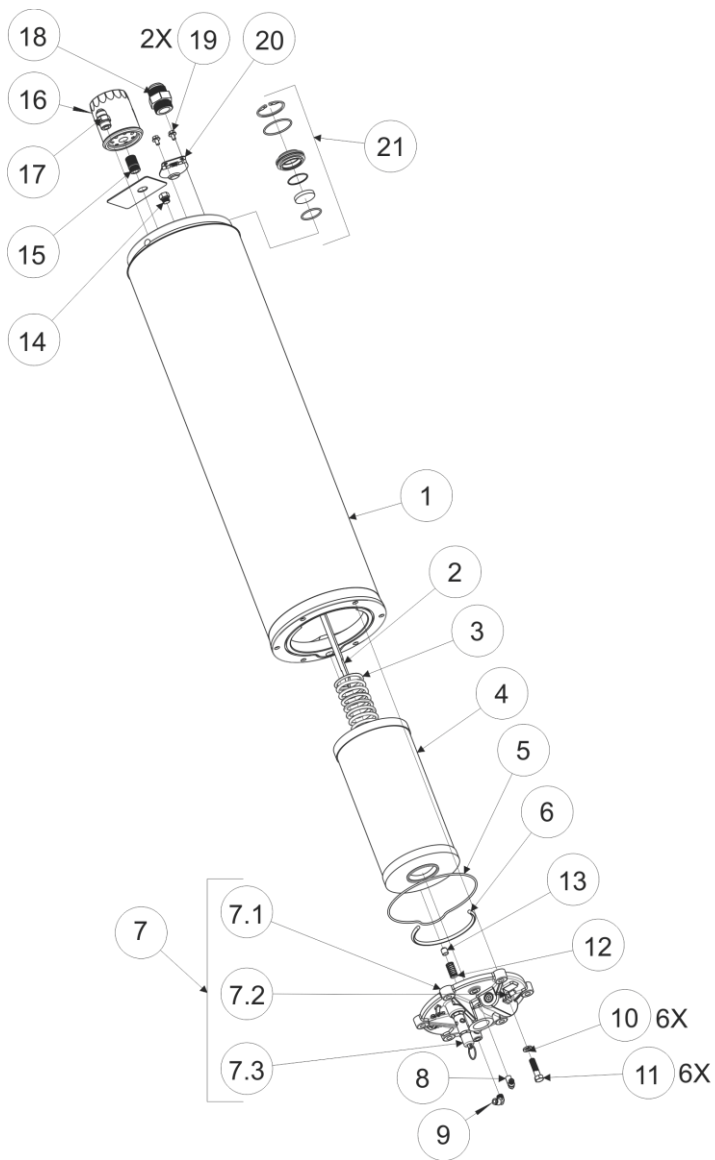


Figure 11 - VR150 Tank

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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, 1/4, HIGH TEMP

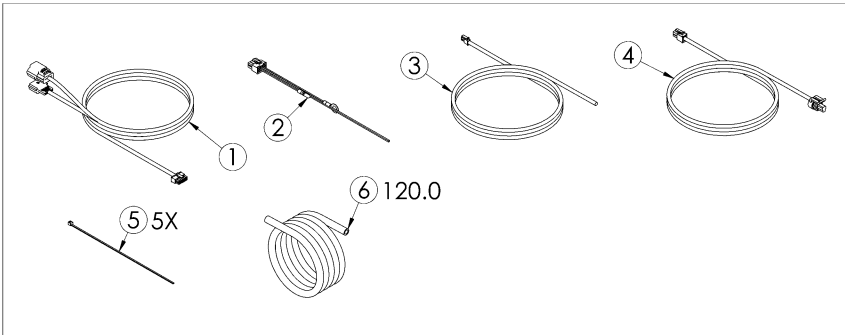


Figure 12 – Electrical Pack

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