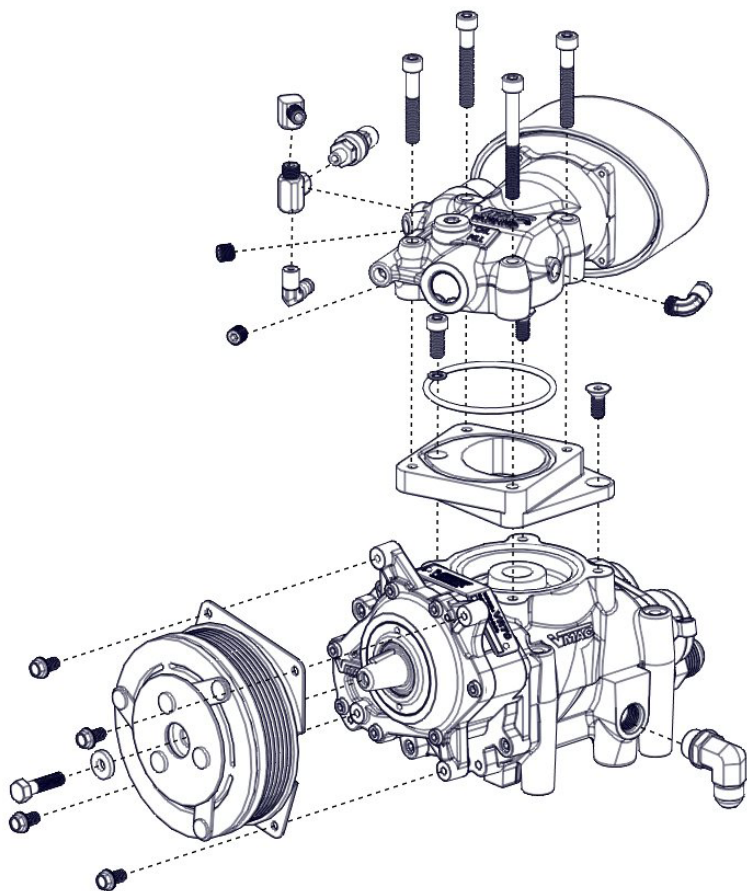


UNDERHOODTM **70**

AIR COMPRESSORS



Illustrated Parts List for VMAC System

V900131

2020 – 2022 Ford Super Duty® F-250 – F600
7.3 L Gas V8

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Illustrated Parts List for VMAC System V900131

VR70, 2020 – 2022 FORD F-250 – F-600 7.3L V8

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NOTE: Drawings are not to scale.

Document 1930429 – Changes and Revisions

Revision	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
D	ECN: 22-044 Update application	MSP	N/A	N/A	MSP	N/A	5 Apr. 2022
E	ECN 22-165: 2PSI CHECK-VALVE ADDED	SPT	GJM	N/A	DB	N/A	26SEP2022
F	ECN: 23-082 Cap model year	MSP	N/A	N/A	MSP	N/A	17 Apr. 2023
G	FCN: 23-266 Pulv Update	IRC	GJM	N/A	N/A	N/A	13DEC2023

VMAC – Vehicle Mounted Air Compressors

Sales: 877-921-6605

Tech: 888-241-2289

Fax: 877-740-3202

1. Kit Pack List

Item #	Part #	Qty	Description
1	1100250	1	BRACKET, MAIN, FORD 7.3L GAS
2	1200933	2	MOUNT, TANK
3	1200924	3	BACKING STRAP, TANK
4	4800844	1	ASSY, FEAD BRCKT, VR70, FORD 7.3G
5	1800283	1	PLLY, CRNK, FORD 6.8/7.3L G, VR70
6	2200105	2	CLAMP, MOUNTING BRACKET C, 6
7	1201139	1	BRACKET, RESERVOIR RELOCATION
8	1201148	1	BRACKET, COOLER
9	3551051	1	VR CONTROL BOX, 1 SEC
10	P120221	1	ASSEMBLY, COMPRESSOR
11	2010112	1	WELDMENT, COOLER
12	9200430	1	TANK, VR70 DRESSED INT OIL FILTER
13	3560274	1	VR DTC, U70 FORD 7.3G 2020+
14	3550949	1	INTERFACE CABLE, 4-WIRE
15	1710902	1	HOSE, MODIFIED, (1700251)
16	1201116	2	BRACKET, RUNNING BOARD, FORD
17	1610339	1	BELT, K060858
18	1700027	60.0	HOSE, HEATER 150 PSI 5/8
19	1700064	54.0	LOOM, SPLIT PLASTIC, 1
20	1720737	1	TUBE, CONNECTOR
21	1771073	1	HOSE, CRIMPED, 3/4" X 73"
22	1752086	1	HOSE, CRIMPED, 1/2" X 86"
23	1752045	1	HOSE, CRIMPED, 1/2" X 45"
24	3801394	1	FASTENER PACK, V900131
25	3810102	1	ELEC PACK, U70/150, MX64 PEDAL
26	4800857	1	SYS ID & OP INSTR, V900131
27	1930428	1	MANUAL, INSTALL, V900131
28	1930060	1	MANUAL, OWNERS GENERIC, VR70 & 150
29	1930429	1	ILLUSTRATED PARTS LIST, V900131
30	A700094	1	OIL, VR, 4L, HIGH PERFORMANCE
31	A700091	1	OIL, VR, 1L, HIGH PERFORMANCE

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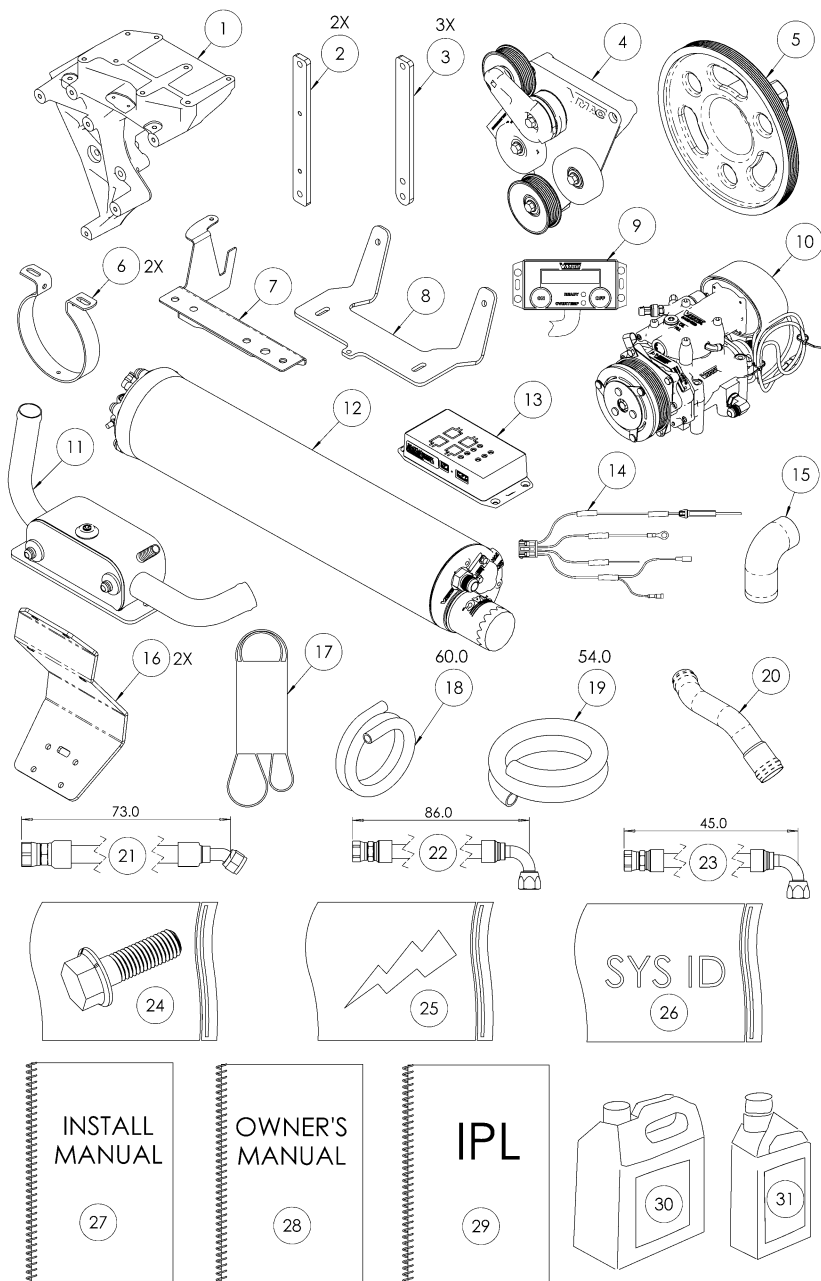


Figure 1 - Kit Pack List

VMAC – Vehicle Mounted Air Compressors

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2. Fastener Pack, 3801394

Item #	Part #	Qty	Description
1	3800736	1	FASTENER PACK, AIR END
1.1	1540521	4	BOLT, SHCS, PL, M8 X 1.25 X 110
2	3801392	1	FASTENER PACK, FAN SPACER
2.1	3400080	1	FAN SPACER, M40 X 2.0, 1 1/2, LH
2.2	1560524	1	NUT, COUPLING M8X1.25, PL
2.3	1520601	1	BOLT, HHCS FL PL, M8 X 1.25 X 12
2.4	1570476	1	WASHER, 5/16 ID X 3/4 OD
3	3801418	1	FASTENER PACK, CRANK PULLEY
3.1	1520672	1	BOLT, HHCS, G10.9, M14 X 1.5 X 140
3.2	1400443	1	SPACER, CRANK PULLEY
3.3	1570497	1	WASHER, 5/16 ID X 3/4 OD
4	3801393	1	FAST PACK, MAIN & FEAD BRACKET
4.1	1520615	5	BOLT, HHCS FL, PL, GR10.9, M8 X 1.25 X 50
4.2	1520538	1	BOLT, HHCS, FLHD, M10 X 1.50 X 35
4.3	1520116	1	BOLT, HHCS G10.9, M10 X 1.5 X 100
4.4	1570044	1	WASHER, ALLOY PL SAE, 3/8
5	3801419	1	FASTENER PACK, ALTERNATOR ELEC
5.1	3551072	1	JUMPER, ALTERNATOR CABLE
5.2	3551073	1	JUMPER, 3 PIN ALTERNATOR, FORD
5.3	4800858	1	ASSEMBLY, TERMINAL POST
5.4	1500681	2	SCREW, PHMS, PL, M5 X 14
5.5	1570519	1	WASHER, EXT SERRATED LOCK, M8
5.6	3501358	1	BOOT, CABLE CONN, RED
5.7	1520570	2	BOLT, HHCS FL LK PL, M8 X 1.25 X 16
5.8	2200261	2	CLAMP, STRAP 1-1/8"
5.9	1550527	1	NUT, NYLOK, S/S, 1/4-20
6	3801420	1	FASTENER PACK, UPPER RAD HOSE
6.1	1201144	1	BRACKET, UPPER RAD HOSE
6.2	2200210	1	CLAMP, STRAP 1 1/2
6.3	1520627	1	BOLT, HHCS, FL PL, M8 X 1.25 X 20
6.4	1560407	1	NUT, NYLOCK, M8 X 1.25 X 20
6.5	2200026	3	CLAMP, HOSE HS28
6.6	2200018	3	TIE, NYLON MD, 11"
6.7	1700643	10.0"	LOOM, MESH, 2" - 3"
7	3801195	1	FASTENER PACK, HEAT SHIELD
7.1	1700645	10.0"	WRAP, HEAT PROTECTION, 1"
7.2	1700645	10.0"	WRAP, HEAT PROTECTION, 1"
7.3	2200039	3	TIE, NYLON MD, 7"
8	3801161	1	FASTENER PACK, TANK
8.1	1510539	4	BOLT, HHCS NC FUL-PL 3/8 X 6 IN
8.2	1550504	4	NUT, FLANGE LOCK NC, CASE HARDN 3/8
8.3	1570044	4	WASHER, ALLOY PL SAE, 3/8
8.4	1510349	4	BOLT, HHCS NC G8 PL, 5/16 X 1/2

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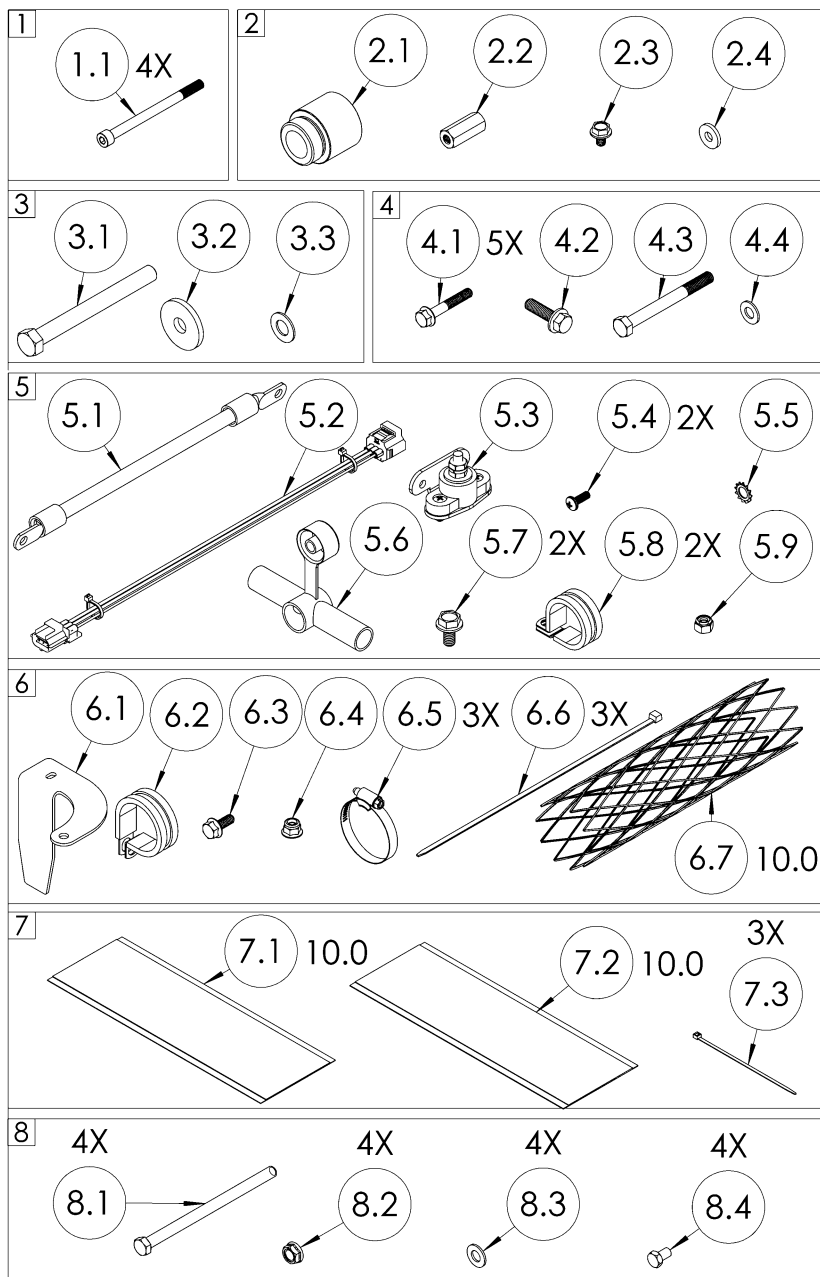


Figure 2 – Fastener Pack

VMAC – Vehicle Mounted Air Compressors

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Fax: 877-740-3202

2. Fastener Pack, 3801358 (CONTINUED)

Item #	Part #	Qty	Description
9	3801421	1	FASTENER PACK, RESERVOIR BRACKET
9.1	1201140	1	BRACKET, DEGAS RESERVOIR
9.2	1560515	4	NUT, M8 X 1.25 FL PL
9.3	1520605	1	BOLT, HHCS, M8-1.25 X 30, FL PL
9.4	1520525	2	BOLT, FLAT HEAD SOCKET, M8 X 25
9.5	1520590	1	BOLT, HHCS, M6 X 1.0 X 14 FL PL
9.6	1560537	1	NUT, NYLOCK, M6 X 1.0, FL PL
10	3801391	1	FASTENER PACK, HOSE ROUTING
10.1	1201146	1	BRACKET, HOSE ROUTING
10.2	1560537	1	NUT, NYLOCK, M6 X 1.0, FL PL
10.3	1520627	1	BOLT, HHCS, FL PL, M8 X 1.25 X 20
10.4	1560538	1	NUT, NYLOCK, M8 X 1.25, FL PL
10.5	1520090	1	BOLT, HHCS G10.9, M10 X 1.5 X 30
10.6	1570503	1	WASHER, SNUBBING
10.7	1560512	1	NUT, FLANGE PL, M10 X 1.5
10.8	2200083	2	CLAMP, STRAP, 1 1/4
10.9	2200018	15	TIE, NYLON MD, 11"
10.10	2200039	10	TIE, NYLON MD, 7"
11	3801431	1	FASTENER PACK, COOLER
11.1	1520090	4	BOLT, HHCS G10.9, M10 X 1.5 X 30
11.2	1560512	4	NUT, FLANGE PL, M10 X 1.5
11.3	1520627	1	BOLT, HHCS, FL PL, M8 X 1.25 X 20
11.4	1560538	1	NUT, NYLOCK, M8 X 1.25, FL PL
11.5	2200261	1	CLAMP, STRAP, 1-1/8"
11.6	2200029	2	CLAMP, HOSE HS10
11.7	2200026	2	CLAMP, HOSE HS28
11.8	4900056	1	FTG, 45, #8FJIC-#8MJIC
11.9	1700613	6.0"	SPIRAL WRAP, 1/2" ID, BLACK
11.10	1700613	6.0"	SPIRAL WRAP, 1/2" ID, BLACK
12	3801430	1	FASTENER PACK, PTFE TUBE
12.1	1700570	119"	TUBE, TEFLON, PTFE, 1/4"OD
12.2	1700571	110"	TUBE, TEFLON, PTFE, 3/16"OD X 1/8"ID
12.3	1700581	117"	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
12.4	1700581	108"	LOOM, SPLIT PLASTIC, 1/4, HIGH TEMP
12.5	2200039	10	TIE, NYLON MD, 7"
13	3801429	1	FASTENER PACK, DUAL BATTERY
13.1	2200210	2	CLAMP, STRAP, 1 1/2

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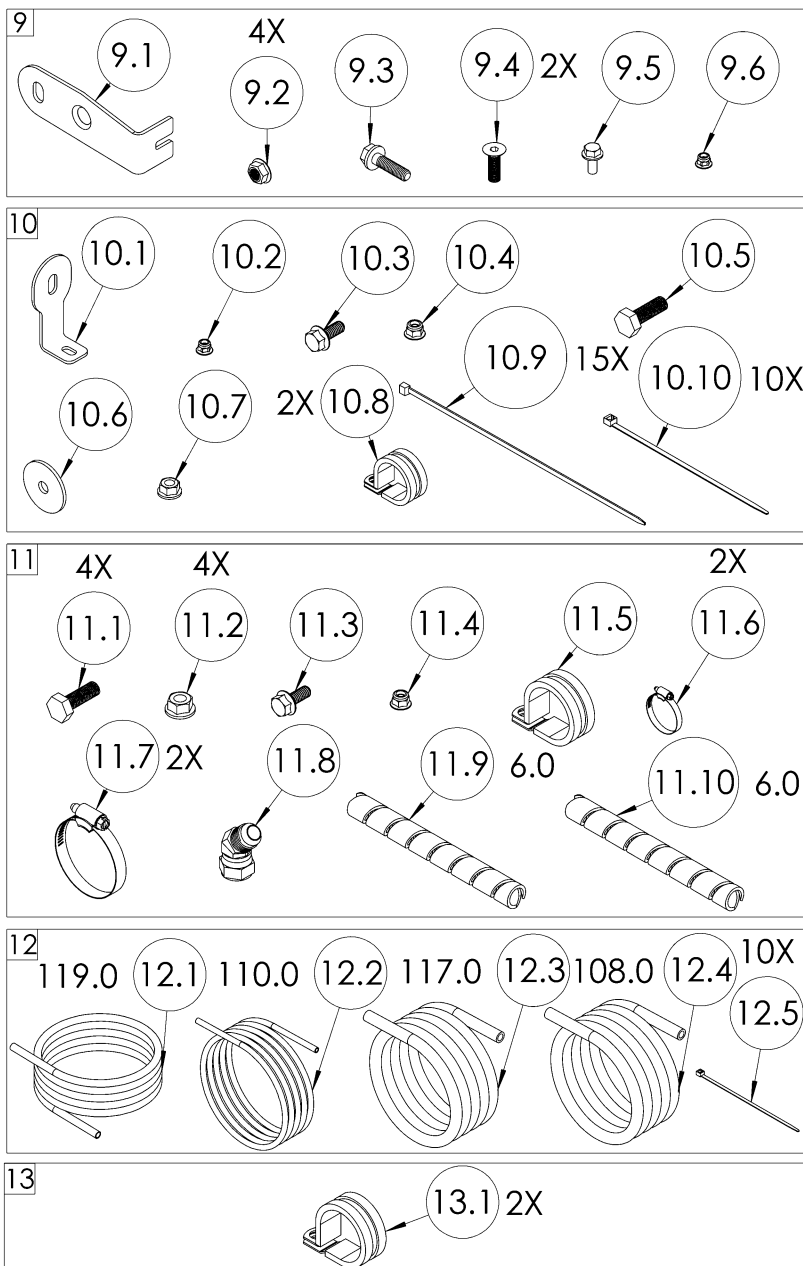


Figure 3 – Fastener Pack (CONTINUED)

VMAC – Vehicle Mounted Air Compressors

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3. Compressor Assembly, P120221

Item #	Part #	Qty	Description
1	P120198	1	BASE ASSY, VR70, 6R-5.12
1.1	A700066	1	FRONT GEAR CASE ASSEMBLY
1.1.1	A700161	1	ASSEMBLY, SEAL RETAINER
2	P200044	1	CLUTCH, COMPLETE, 6 GROOVE, 5.12
3	9200579	1	INLET VALVE, BASIC INTEGRATED REG-H
4	5830004	1	O-RING, VITON, 3 1/8 ID X 1/8
5	1540550	2	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	5000162	1	CONNECT,BRASS NPT-POLY,3/16-1/8 NPT
8	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
9	4300076	1	PIPE FTG, PLUG SKT HEAD, 1/8
10	3501037	1	SENSOR, PRESSURE, 200PSI
11	4900280	1	FTG, 45, #12MORB-#12MJIC, VITON
12	4900203	1	FTG, 90, #8MORB-#8MJIC, VITON
13	3600123	1	VALVE, CHECK, 1/8 NPT
14	3550682	1	PROBE, ASSY, THERMISTOR, SHORT

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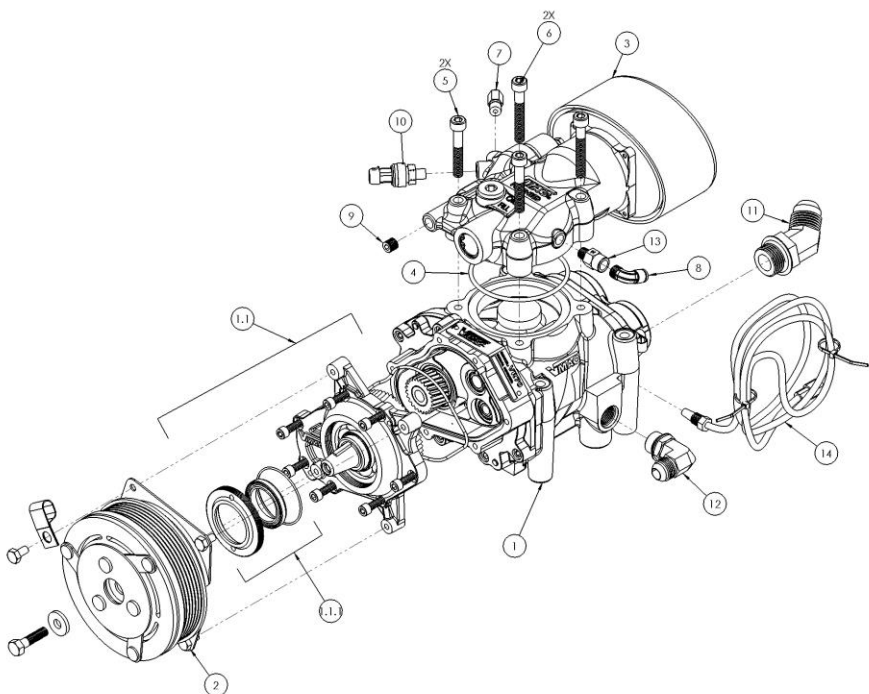


Figure 5 – Compressor Assembly

VMAC – Vehicle Mounted Air Compressors

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4. Compressor Sub Components, P120198

Item #	Part #	Qty	Description
1	A700066	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

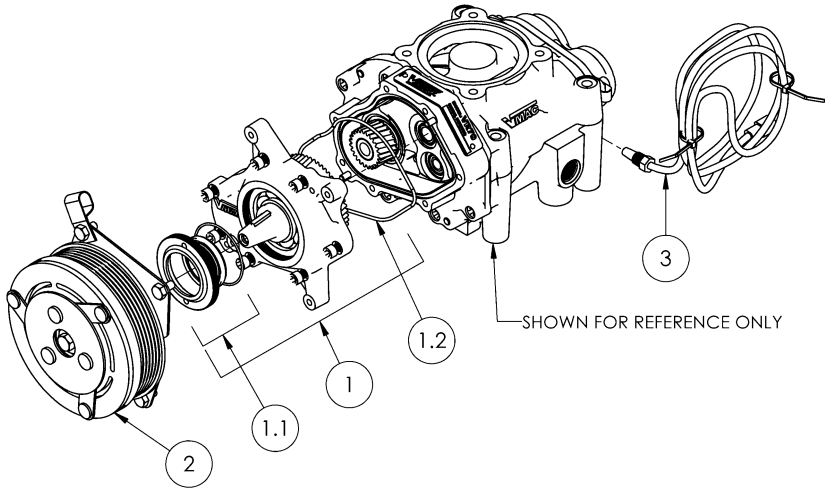


Figure 6 – Compressor Sub Components

VMAC – Vehicle Mounted Air Compressors

Sales: 877-921-6605

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5. Inlet Valve Sub Components, 9210581

Item #	Part #	Qty	Description
1	4900045	1	PLUG, STEEL HEX SAE/O-RING PORT
2	A700137	1	ACCESSORY PACK, REGULATOR ASSEMBLY
3	A700283*	1	RETROFIT KIT, VR INLET POPPET
3.1	5830130	1	O-RING, VITON, 1 3/8 ID X 3/16
3.2	5830002	1	O-RING, VITON, 2 3/8 ID X 3/32
4	A700049	1	OVAL FILTER CAP KIT
4.1	5830070	1	O-RING, VITON, 2 9/16 ID X 3/32
4.2	3200205	1	PLATE, INNER FILTER
4.3	1500077	4	SCREW, BUTTON HEAD, 10 - 32 X 3/8
4.4	1550221	1	NUT, HEX NC PL, 1/4, GR8
4.5	1500519	1	ROD, THREADED, 1/4 X 2.62
4.6	3600037	1	FILTER ELEMENT, PAPER
4.7	3600066	1	COVER, AIR FILTER, PLASTIC
4.8	1500676**	1	KNOB, PLASTIC, 1/4-20

*Retrofit kit A700283 also includes the o-ring 5830004 (between inlet and compressor) and o-ring 5830070 (between inlet and filter plate)

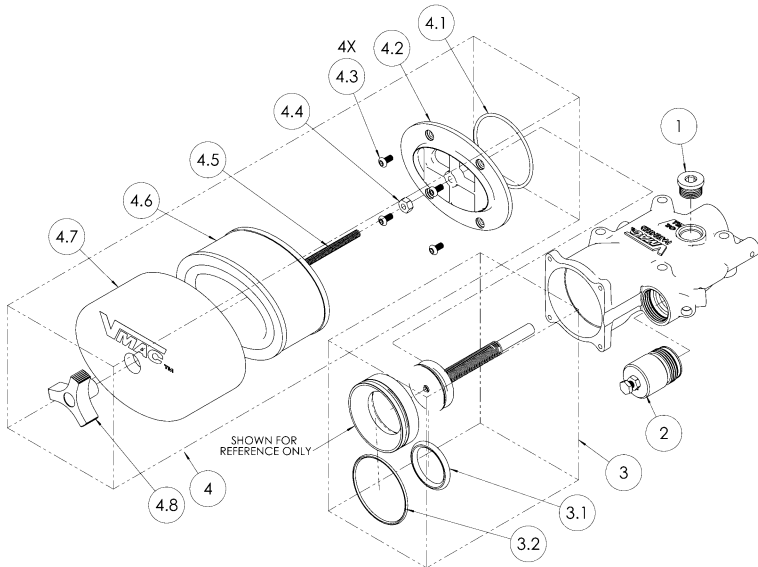


Figure 7 – Inlet Valve Sub Components

VMAC – Vehicle Mounted Air Compressors

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6. FEAD Bracket Assembly, 4800844

Item #	Part #	Qty	Description
1	1201112	1	BRACKET, FEAD, FORD 7.3L GAS
2	2600130	1	TENSIONER, MODIFIED 3300036
3	1300031	2	IDLER, SERP, BACK, 90MM
4	1300030	1	IDLER, SERP, 6 RIB, FLANGE, 90MM
5	1570496	3	WASHER, FENDER, 10MM X 30MM
6	1520563	3	BOLT, HHCS FLPL G8.8 M10 X1.50 X 25

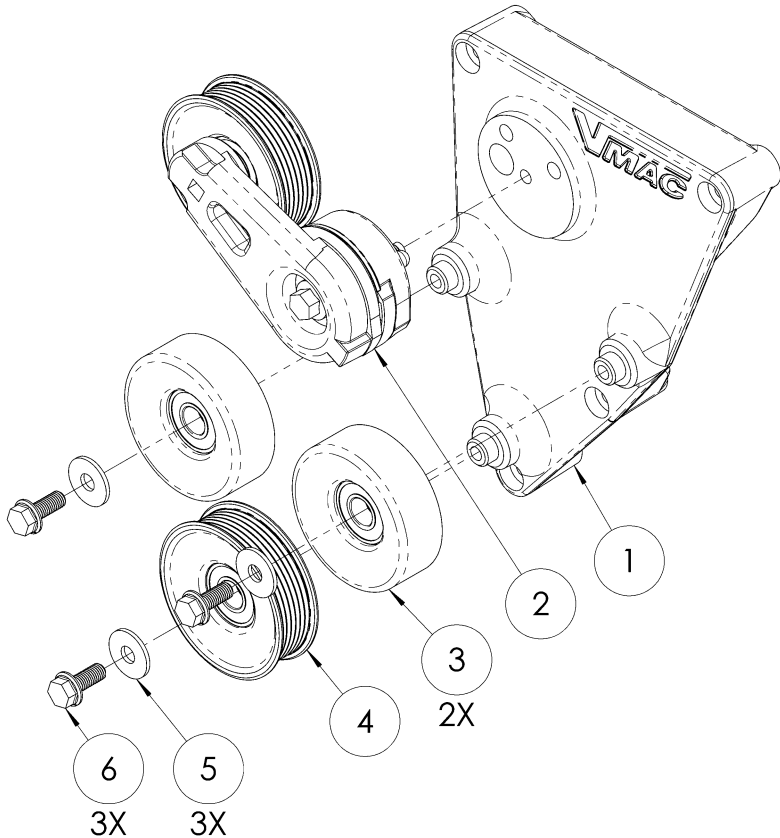


Figure 8 – FEAD Bracket Assembly

VMAC – Vehicle Mounted Air Compressors

Sales: 877-921-6605

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7. VR70 Air-Oil Separation 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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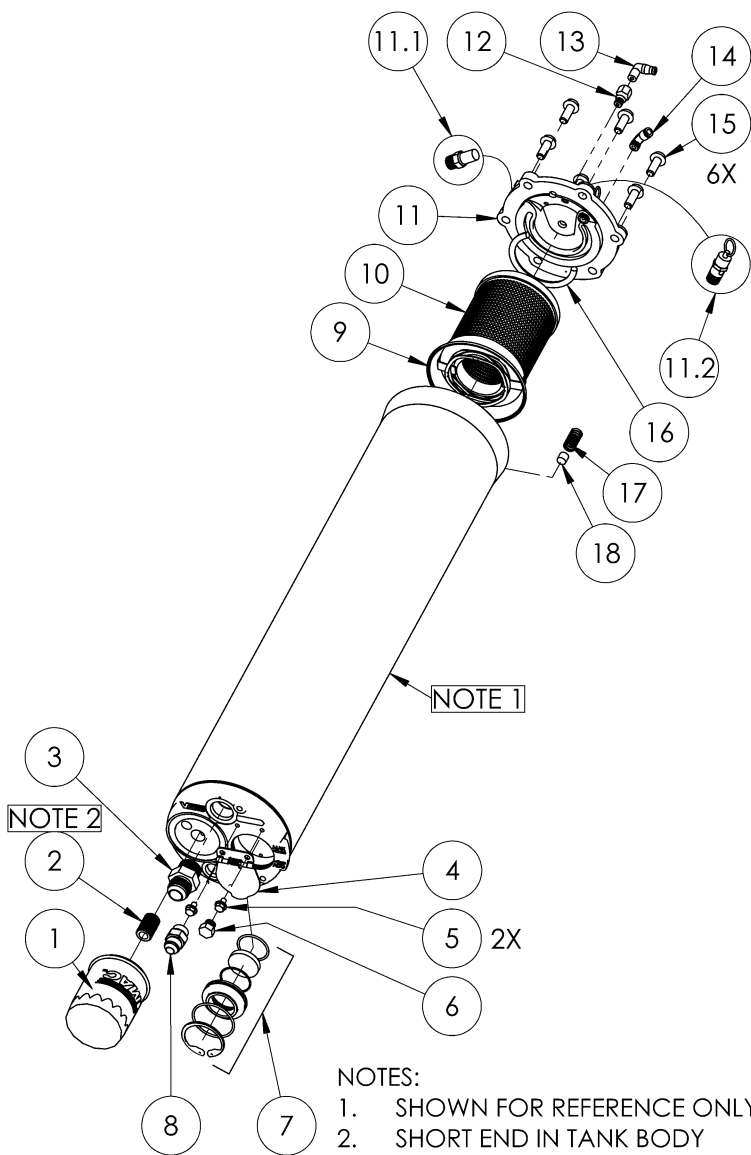


Figure 9 – VR70 Tank

VMAC – Vehicle Mounted Air Compressors

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8. 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

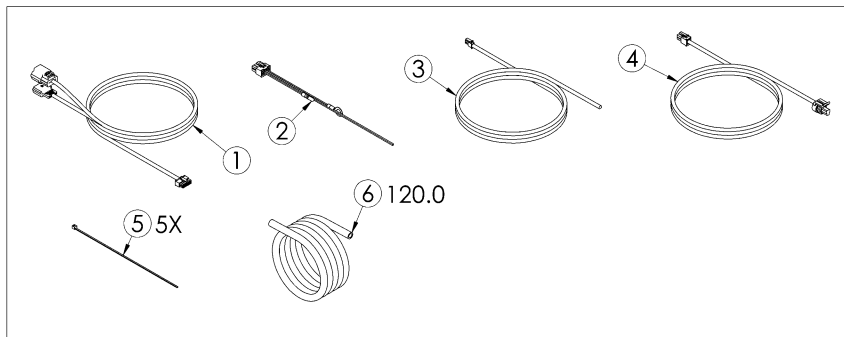


Figure 10 – Electrical Pack

VMAC – Vehicle Mounted Air Compressors

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