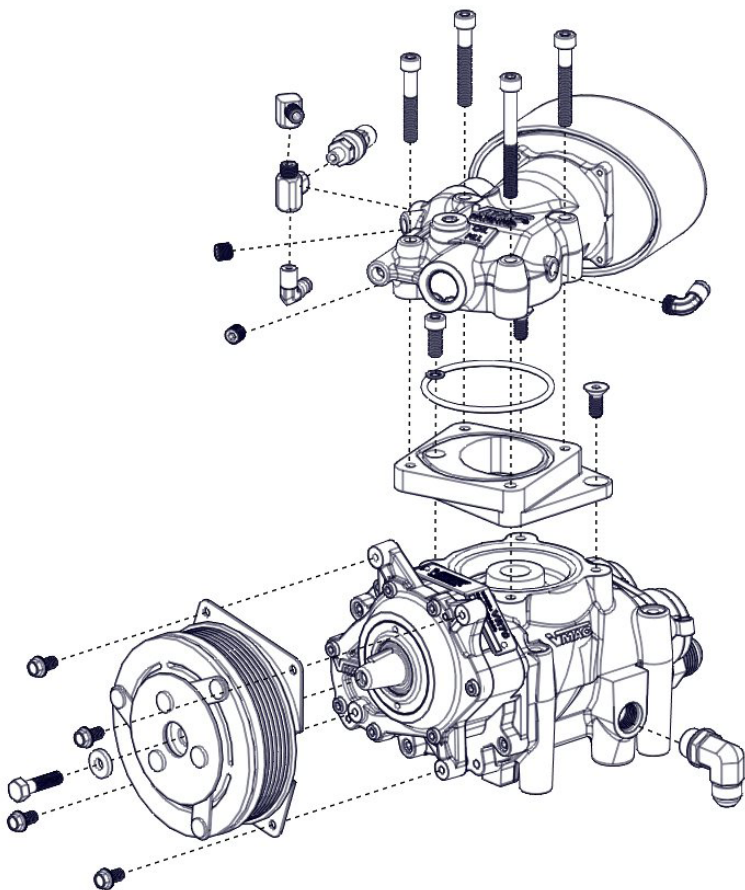


***UNDERHOOD™* 150**

AIR COMPRESSORS



Illustrated Parts List for VMAC System

V910032

**2020 – 2022 Ford Super Duty® F-250 – F350
6.2 L Gas V8**

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Illustrated Parts List for VMAC System V910032

2020 – 2022 VR150, FORD 6.2L V8 F250-350

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NOTE: Drawings are not to scale.

Document 1930408 – Changes and Revisions

Revision n	Revision Details	Revised by	Checked by				Implemented
			Eng.		Tech.	Qual.	
			Mech.	Elec.			
A	ECN 19-194: ENGINEERING RELEASE	BJG					24JAN2020
B	ECN 20-054: ADDED 3801408	CAM	MCA	N/A	BDJ	LH	04MAR2020
C	ECN: 23-082 Cap model year	MSP	N/A	N/A	MSP	N/A	14 Apr. 2023
D	ECN: 23-120	IRC	GJM	N/A	SP	LH	18MAY2023

VMAC – Vehicle Mounted Air Compressors

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1. Kit Pack List

Item #	Part #	Qty	Description
1	1100186	1	BRACKET, MAIN, FORD 6.2
2	1200960	1	MOUNT, TANK, FRONT
3	1200923	1	MOUNT, TANK
4	1200924	3	BACKING STRAP, TANK
5	1620356	1	BELT, K080816
6	1800210	1	PULLEY, CRANK, FORD 6.2 VR150
7	2200149	2	CLAMP, MOUNTING BRACKET
8	5800161	1	PUMP, AL, WATER, V10, FORD, EXTENDED
9	1201095	1	BRACKET, COOLER MOUNTING
10	3550727	1	VR CONTROL BOX
11	P140060	1	ASSEMBLY, COMPRESSOR V910032
12	9210171	1	WELDMENT, COOLER
13	9210050	1	TANK, VR150 DRESSED
14	3560267	1	VR DTC, U150 FORD 6.2G 2020+
15	3550948	1	HARNESS, FAN
16	1201116	1	BRACKET, RUNNING BOARD, FORD
17	3550949	1	INTERFACE CABLE, FORD
18	1752092	1	HOSE, CRIMPED, 1/2" X 92"
19	1752053	1	HOSE, CRIMPED, 1/2" X 53"
20	1781090	1	HOSE, CRIMPED, 1" X 90"
21	A700091	1	OIL, VR, 1L, HIGH PERFORMANCE
22	3801358	1	FASTENER PACK, V910032
23	3810102	1	ELEC PACK, U70/150, MX64 PEDAL
24	4800834	1	SYS ID & OP INSTR, V900132/V910032
25	A700094	2	OIL, VR, 4L, HIGH PERFORMANCE
26	A700250	1	KIT, INBOARD AOST, FORD
27	1930409	1	MANUAL, INSTALL, V910032
28	1930060	1	MANUAL, OWNERS GENERIC, VR70 & 150
29	1930408	1	ILLUSTRATED PARTS LIST, V910032

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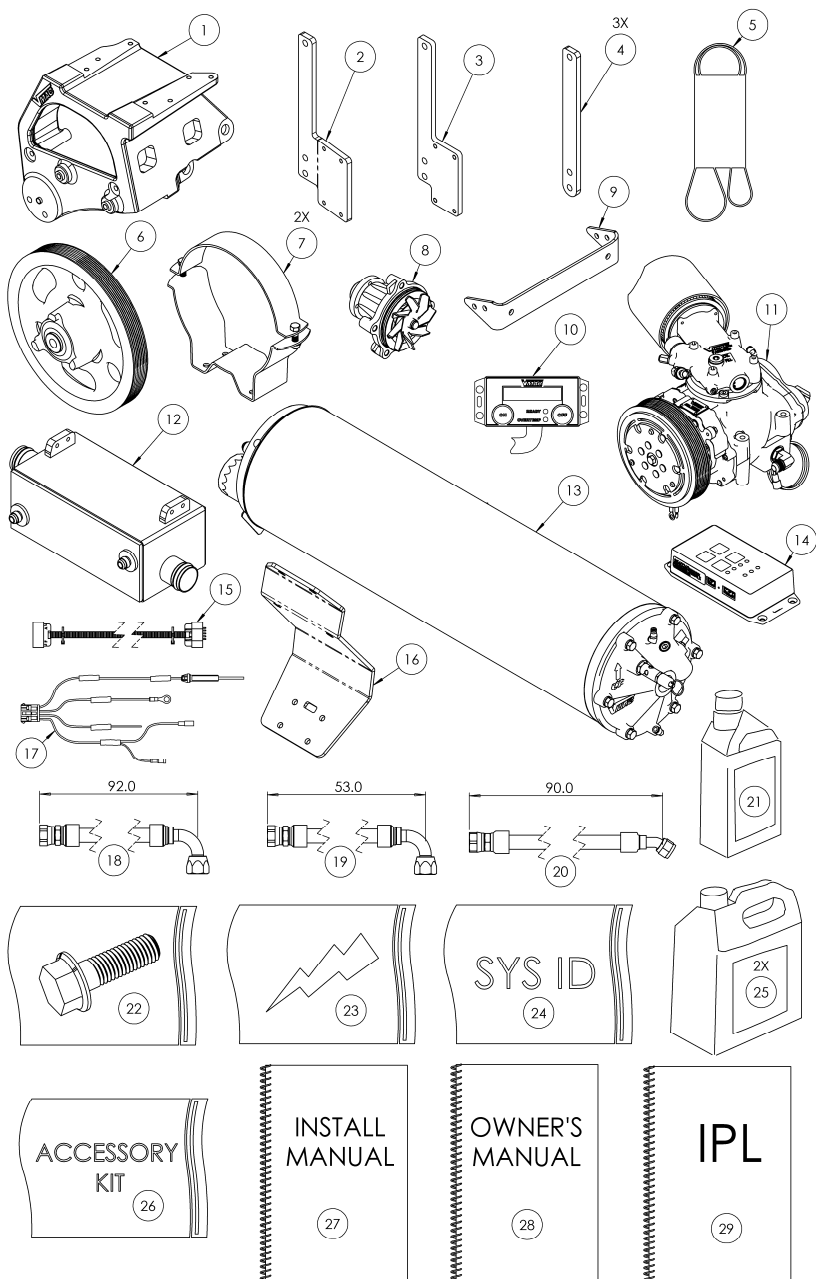


Figure 1 - Kit Pack List

VMAC – Vehicle Mounted Air Compressors

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2. Fastener Pack, 3801358

Item #	Part #	Qty	Description
1	3801207	1	FASTENER PACK, AIR END
1.1	1540521	3	BOLT, SHCS, PL, M8 X 1.25 X 110
2	3800738	1	FAST PACK, CRANK PULLEY
2.1	1520430	1	BOLT, HHCS G10.9, M14 X 1.5 X 110
2.2	1570497	1	WASHER, SAE, 9/16 THRU-HARD ZINC
3	3800750	1	FAST PACK, MAIN BRACKET
3.1	1300023	1	IDLER, PULLEY 8 RIB, 3.5
3.2	1300010	1	IDLER, SERP 8 RIB BACK STEEL
3.3	1520571	2	BOLT, HHCS FLHD PL, M10 X 1.5 X 30
3.4	1520581	2	BOLT, HHCS G10.9, M8 X 1.25 X 120
3.5	1520582	1	BOLT, HHCS G10.9, M8 X 1.25 X 100
3.6	1520584	2	BOLT, HHCS, M16 X 2.0 X 35 PL
3.7	1570067	3	WASHER, SAE, 5/16
3.8	1570233	2	WASHER, FLAT SAE, 5/8
3.9	1570496	1	WASHER, FENDER, 10MM X 30MM
3.10	2200184	1	CABLE TIE, ANCHOR, 8 1/4", BLACK
3.11	3200364	1	POST, TENSIONER PIVOT
3.12	3300036	1	TENSIONER 7C3Z-6B209-D
4	3801360	1	FASTENER PACK, ABS HCU RELOC
4.1	1201097	1	WELDMENT, ABS HCU RELOC, BOTTOM
4.2	1201096	1	BRACKET, ABS HCU RELOC, SIDE
4.3	1520591	1	BOLT, HHCS, M8-1.25 X 25, G10.9 FL PL
4.4	1560515	3	NUT, M8 X 1.25 FL PL
5	3801363	1	FASTENER PACK, HOSE ROUTING
5.1	1560515	1	NUT, M8 X 1.25 FL PL
5.2	2200210	4	CLAMP, C R.I., 1 1/2
5.3	2200049	5	TIE, NYLON MD, 14"
5.4	2200018	10	TIE, NYLON MD, 11
5.5	1560516	3	NUT, M6 X 1.0 FL PL
5.6	1570491	1	WASHER, FLAT, M6, PLATED
5.7	2200184	1	CABLE TIE, ANCHOR, 8 1/4", BLACK
5.8	1520583	1	BOLT, HHCS, FL, M6 X 1.0 X 20
5.9	1560510	1	NUT, M6X 1.0 ZINC PL
5.10	1570402	1	WASHER, FENDER, 1/4
5.11	2200039	10	TIE, NYLON MD, 7"
5.12	2200147	1	CLAMP, C.R.I., 2"

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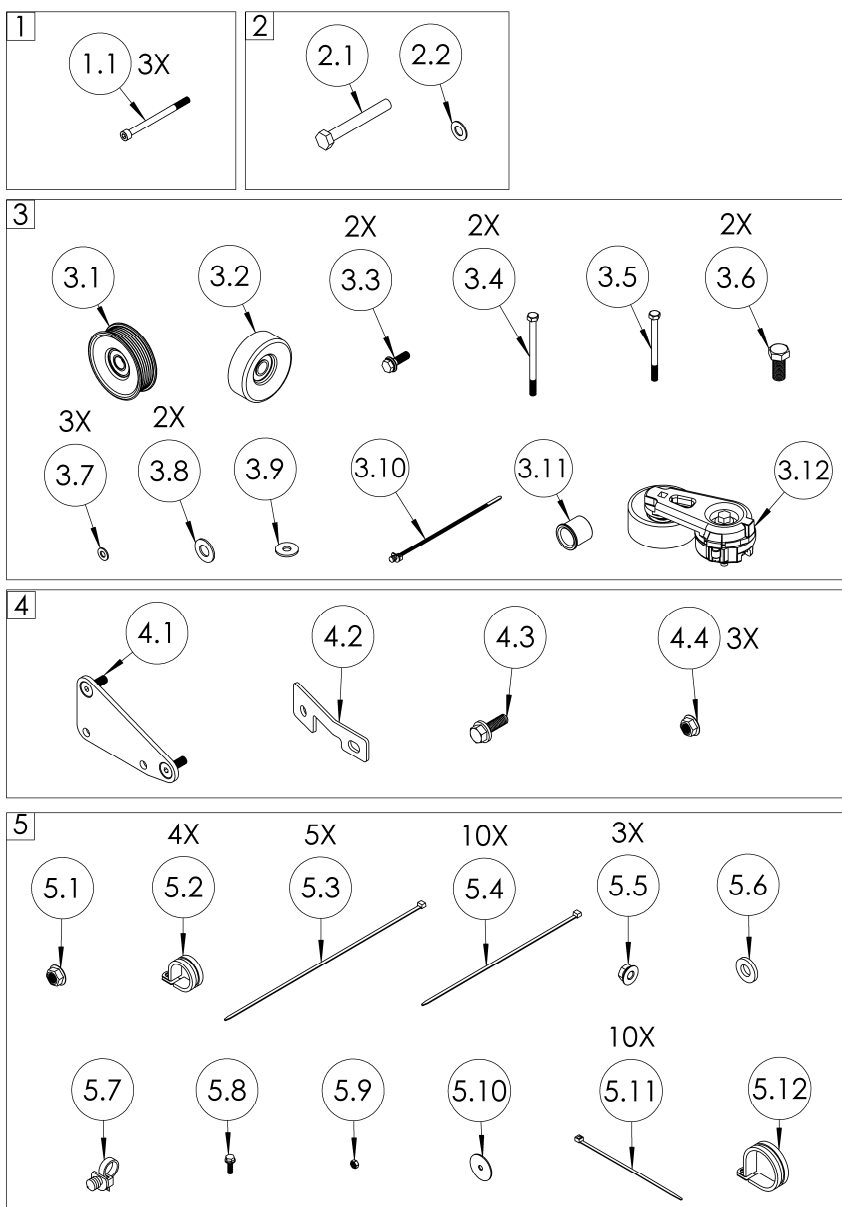


Figure 2 – Fastener Pack

VMAC – Vehicle Mounted Air Compressors

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2. Fastener Pack, 3801358 (CONTINUED)

Item #	Part #	Qty	Description
6	3801168	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	8	BOLT, HHCS NC G8 PL, 5/16 X 1/2
7	3801243	1	FASTENER PACK, FAN
7.1	1520627	1	BOLT, HHCS, FL PL, M8 X 1.25 X 20
7.2	1520583	1	BOLT, HHCS, FL, M6 X 1.0 X 20
7.3	1560438	1	NUT, NYLOCK, M6
7.4	1200940	1	BRACKET, FAN CLUTCH
7.5	2200039	3	TIE, NYLON MD, 7"
7.6	2200133	2	CLAMP, INSULATED DOUBLE TUBE, 1/4
7.7	1560515	2	NUT, M8 X 1.25 FL PL
8	3801361	1	FASTENER PACK, DEGAS RELOCATION
8.1	1201098	1	WELDMENT, DEGAS, RELOC, SIDE
8.2	1201099	1	WELDMENT, DEGAS, RELOC, BOTTOM
8.3	1560515	3	NUT, M8 X 1.25 FL PL
8.4	1520601	3	WASHER, FLAT G5, 5/16
8.5	1520570	3	BOLT,HHCS FL LK PL, M8 X 1.25 X 16
9	3800814	1	FASTENER PACK, OEM TENSIONER
9.1	1200632	1	PLATE, FRONT TENSIONER
9.2	1200633	1	PLATE, REAR TENSIONER
9.3	1520541	1	BOLT, HHCS G10.9, M6 X 1.0 X 20
9.4	1520555	2	BOLT, HHCS G8.8, M6 X 1.0 X 30
9.5	1560438	1	NUT, NYLOCK, M6
9.6	1570491	2	WASHER, FLAT, M6, PLATED

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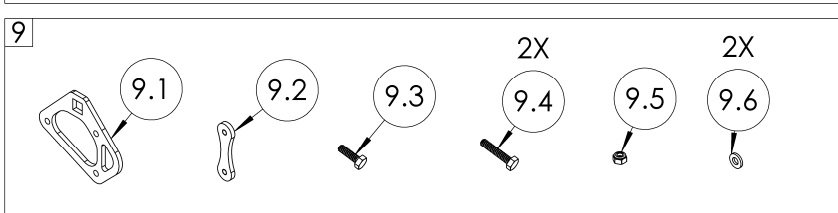
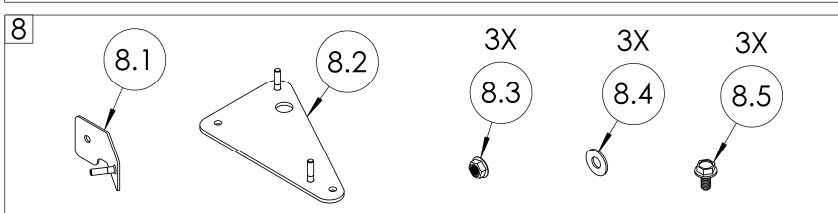
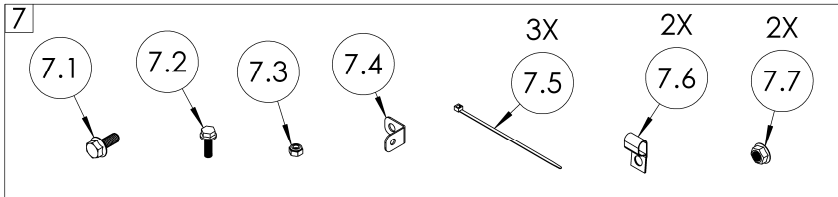
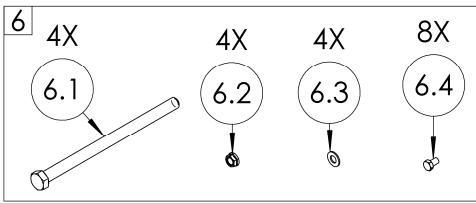


Figure 3 – Fastener Packs (CONTINUED)

2. Fastener Pack, 3801358 (CONTINUED)

Item #	Part #	Qty	Description
10	3801364	1	FASTENER PACK, COOLER
10.1	1520591	6	BOLT, HHCS, M8-1.25 X 25, G10.9 FL PL
10.2	1560515	2	NUT, M8 X 1.25 FL PL
10.3	1720715	2	TUBE, CONNECTOR
10.4	1700638	1	HOSE, RAD
10.5	1710874	1	HOSE, MODIFIED (1700638)
10.6	1710875	1	HOSE, MODIFIED (1700588)
10.7	1700643	2 @ 7.0	LOOM, MESH, 2" - 3"
10.8	2200147	1	CLAMP, C R.I., 2"
10.9	1550521	1	NUT, FLANGE LOCK NC, 1/4-20
10.10	1510540	1	BOLT, HHCS NC G8 FL LK PL, 1/4X3/4
10.11	2200027	10	CLAMP, HOSE HS32
10.12	2200026	1	CLAMP, HOSE HS28
10.13	2200048	6	CLAMP, HOSE HS12
10.14	4900141	2	CONNECTOR, HOSE BARB 3/4 PLATED
10.15	1700177	2 @ 24.0	HOSE, HEATER, 3/4
11	3801408	1	FASTENER PACK, HOSE EXTENSION
11.1	2200047	3	CLAMP, HOSE, HS16
11.2	4900097	1	FTG, STR, 1"HOSE-1"HOSE
11.3	1700034	8.0	HOSE, HEATER BLACK 150 PSI, 1

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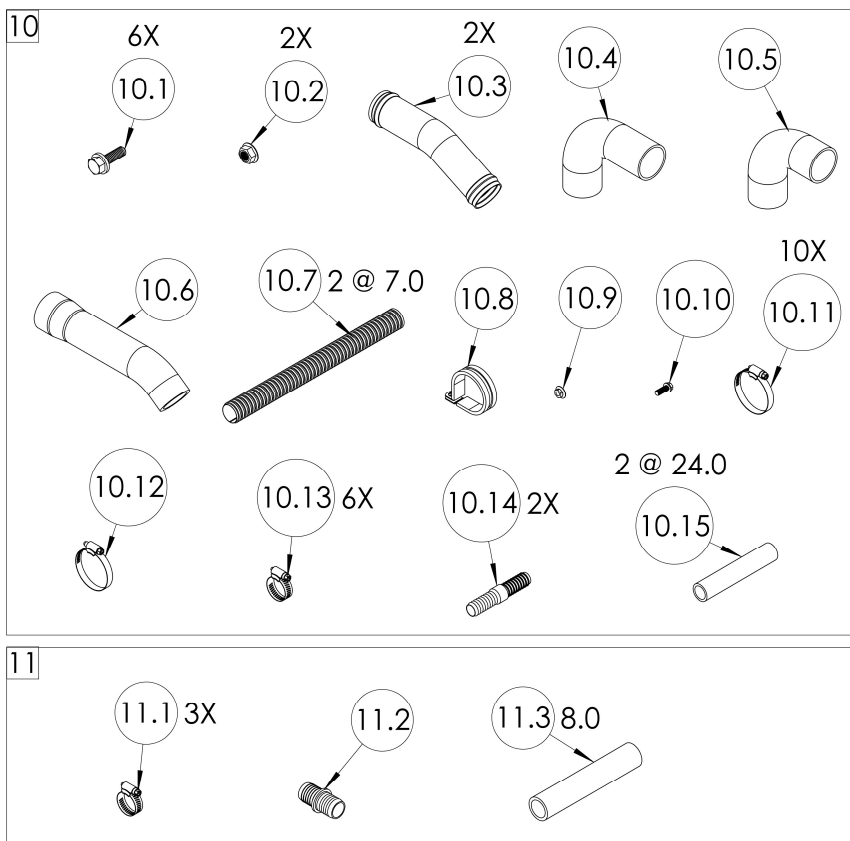


Figure 4 – Fastener Packs (CONTINUED)

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3. Compressor Assembly, P140060

Item #	Part #	Qty	Description
1	P140051	1	COMPRESSOR, ALUMINUM 150
2	9210165	1	ASSEMBLY, INLET VALVE
3	5000112	1	ELBOW, BRASS STREET 45 DEG, 1/8
4	4900203	1	CONN, STEEL, 90, #8 MJIC - #8 MORB
5	5000162	1	CONNECTOR,BRASS NPT-POLY,3/16-1/8 NPT
6	5830004	2	O-RING, VITON, 3 1/8 ID X 1/8
7	4900155	1	FTG, 45, #16MORB-#16MJIC, VITON
8	9210146	1	ADAPTOR, INLET VALVE
9	1540389	4	BOLT, SHCS, PLATED, M8 X 1.25 X 18,
10	4300076	1	PIPE FTG, PLUG SKT HEAD, 1/8
11	5000020	1	ELBOW, BRASS NPT-POLY, 1/8-1/4
12	1540550	2	BOLT, SHCS, M8 X 1.25 X 50, G12.9 PLT
13	1540530	2	BOLT, SHCS, M8 X 1.25 X 55, G12.9 PLT
14	3501037	1	SENSOR, PRESSURE, 200PSI
15	1520646	1	BOLT, HHCS G10.9, M6 X 1 X 10 FL PL
16	1570038	1	WASHER, FLAT SAE, 1/4

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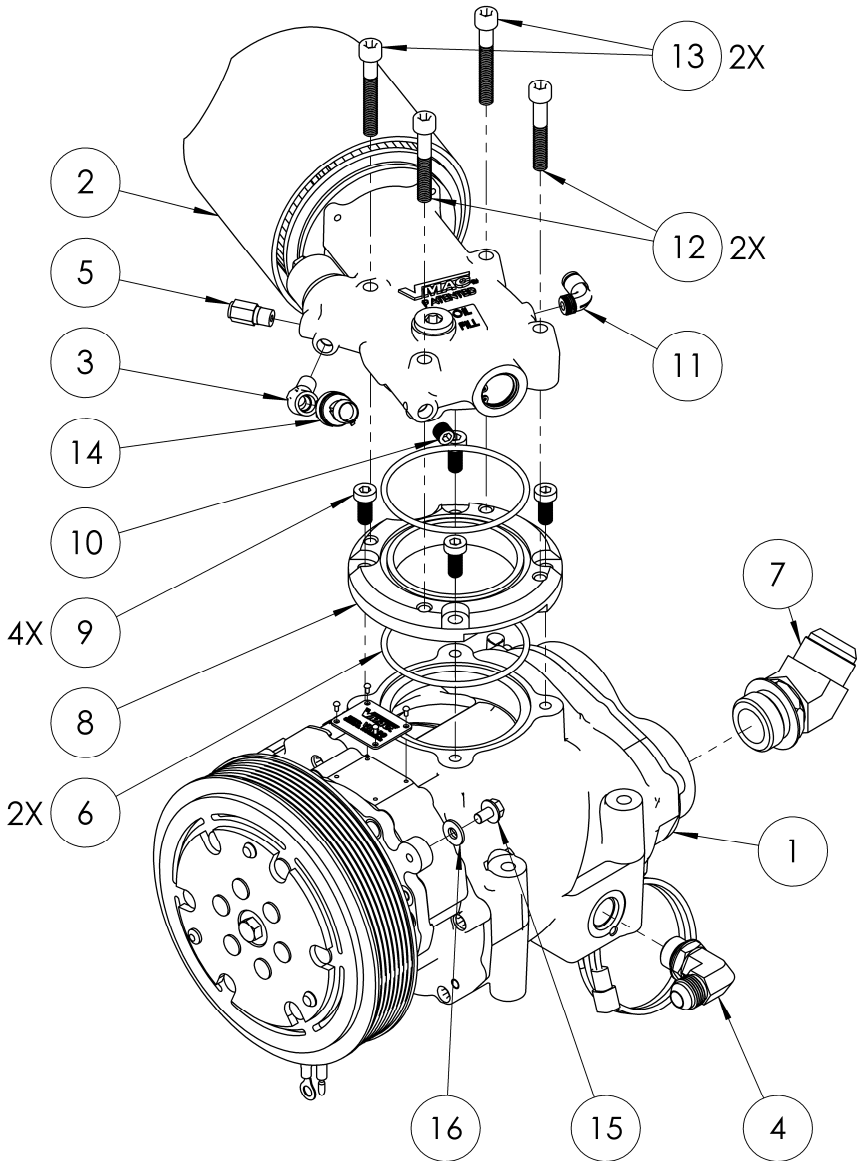


Figure 5 – Compressor Assembly

VMAC – Vehicle Mounted Air Compressors

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4. Compressor Sub Components, P140051

Item #	Part #	Qty	Description
1	3550682	1	PROBE, ASSY, THERMISTOR, SHORT
2	A700231	1	VR150 FRONT GEAR CASE ASSEMBLY
2.1	5830093	1	O-RING, VITON, 5 1/4 ID X 3/32
2.2	5820091	1	SEAL, 1 1/4ID X 1 3/4OD X 1/4 WIDE
3	P200050	1	CLUTCH,REPLACEMENT,8 GROOVE,175FTLB

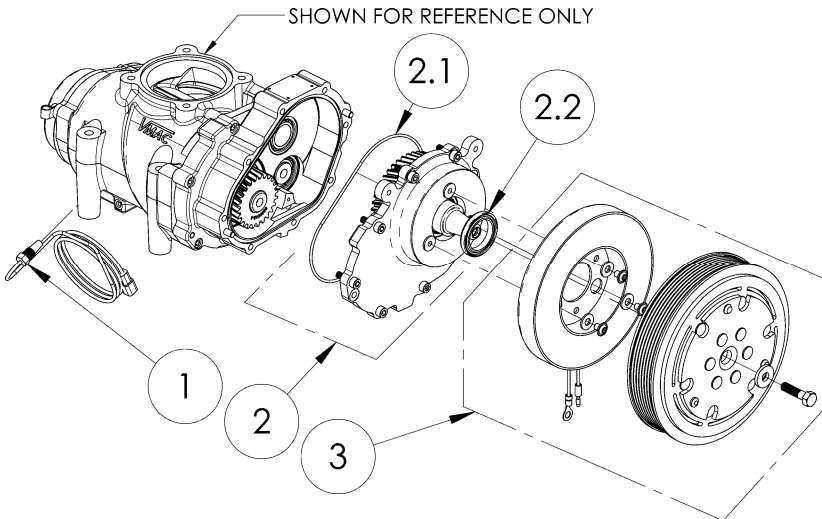


Figure 6 – Compressor Sub Components

VMAC – Vehicle Mounted Air Compressors

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5. 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"

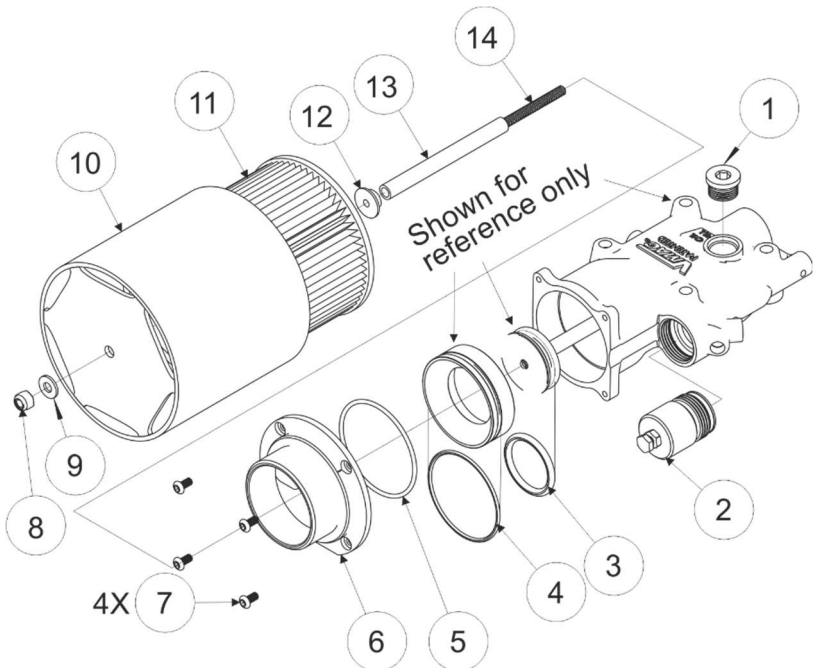


Figure 7 – Inlet Valve Sub Components

VMAC – Vehicle Mounted Air Compressors

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6. Main Bracket Assembly, 1100186 and 3800750

Item #	Part #	Qty	Description
1	1100186	1	BRACKET, MAIN, FORD 6.2
2	3300036	1	TENSIONER 7C3Z-6B209-D
3	1520563	2	BOLT, HHCS FLPL G8.8 M10 X1.50 X 25
4	1570496	1	WASHER, FENDER, 10MM X 30MM
5	1300010	1	IDLER, SERP 8 RIB BACK STEEL
6	1300023	1	IDLER, PULLEY 8 RIB, 3.5
7	3200364	1	POST, TENSIONER PIVOT
8	1520581	2	BOLT, HHCS G10.9, M8 X 1.25 X 120
9	1520582	1	BOLT, HHCS G10.9, M8 X 1.25 X 100
10	1570067	3	WASHER, SAE, 5/16
11	1570233	2	WASHER, FLAT SAE, 5/8
12	1520584	2	BOLT, HHCS, M16 X 2.0 X 35 PL
13	2200184	1	CABLE TIE, ANCHOR, 8 1/4", BLACK

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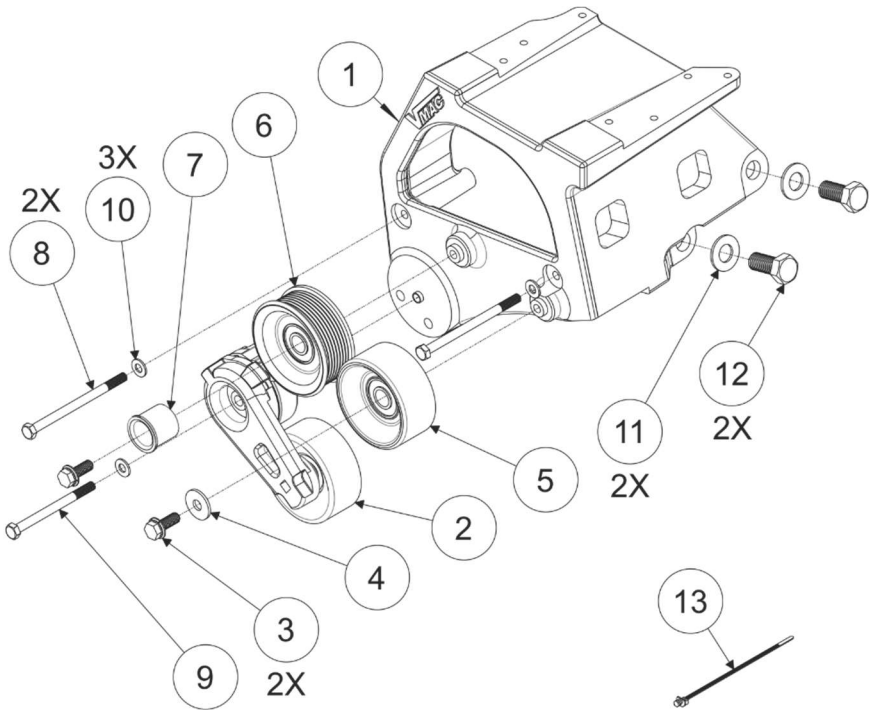


Figure 8 – Main Bracket Assembly

VMAC – Vehicle Mounted Air Compressors

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7. 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

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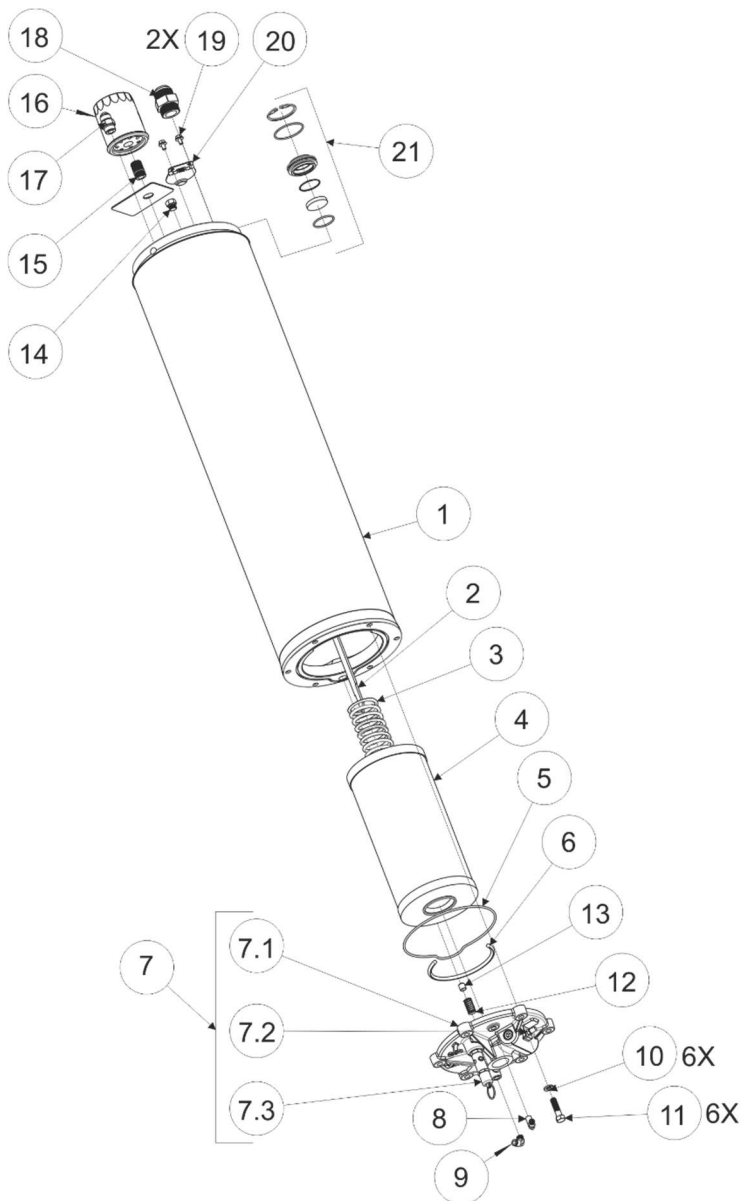


Figure 9 – VR150 Tank

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

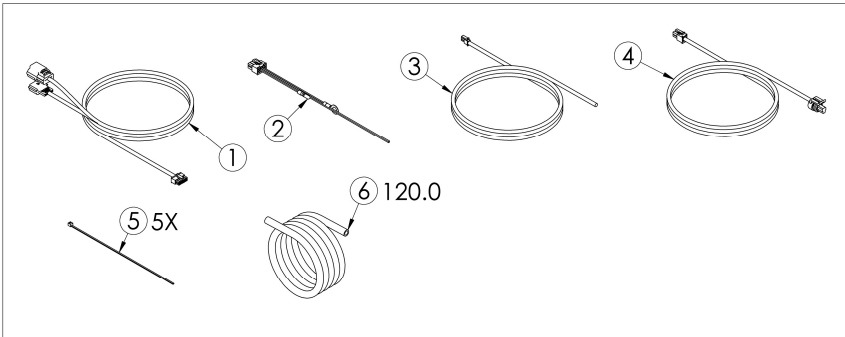


Figure 10 – Electrical Pack

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