

Illustrated Parts List for VMAC System V900063C

**GM 6.6L DMAX CK2500HD-CK3500 2002-2005
W/WOAC, W/WODA, W/VP, W/WOVP**

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Document 1930099

Changes and Revisions

Version	Revision Details	Revised by/date	Approved by/date	Implemented
-	New Format	YBD/23SEP05	SM/26SEP05	03OCT2005
A	CONTROL BOX	YBD/16MAR06		21MAR2006
B	ECN 06-220 Coal. Spring	IB 22 Apr 2007	SH 23 Apr 2007	27 Apr 2007

VMAC – Vehicle Mounted Air Compressors

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1 - Kit Pack List

Item #	Part #	Qty	Description
1	1200287	1	BRACKET, COOLER SKID PLATE
2	1610337	1	BELT, K061150
3	1650293	1	BELT, 5060870, 87
4	1730081	1	HOSE, CRIMPED, 1/4" X 81"
5	1740079	1	HOSE, CRIMPED, 5/16" X 79"
6	1751044	1	HOSE, CRIMPED, 1/2" X 44"
7	1752074	1	HOSE, CRIMPED, 1/2" X 74"
8	1771051	1	HOSE, CRIMPED 3/4" X 51"
9	1800161	1	PULLEY ASSEMBLY, GMC, DURAMAX
10	1930014	1	MANUAL, INSTALLATION
11	1930060	1	MANUAL, OWNERS GENERIC, VR70 & 140
12	1930099	1	ILLUSTRATED PARTS LIST
13	2200105	2	CLAMP, MOUNTING BRACKET C, 6
14	3550404	1	CONTROL PANEL – LOW PROFILE
15	3550412	1	SWITCHING BOX
16	3550653	1	INTERFACE CABLE
17	3560081	1	THROTTLE CONTROL, 6.6 DURAMAX GMC
18	3800469	1	FASTENER PACK, REV C
19	4800278	1	COOLER ASSEMBLY
20	4800280	2	BRACKET, ASSEMBLY, TANK
21	4800413	1	SYSTEM OPERATION INSTRUCTION AND ID
22	9200380	1	TANK, VR70 DRESSED INT OIL FILTER
23	A700091	1	OIL, VR, 1L, HIGH PERFORMANCE
24	A700094	1	OIL, VR, 4L, HIGH PERFORMANCE
25	P120063	1	COMPRESSOR ASSEMBLY

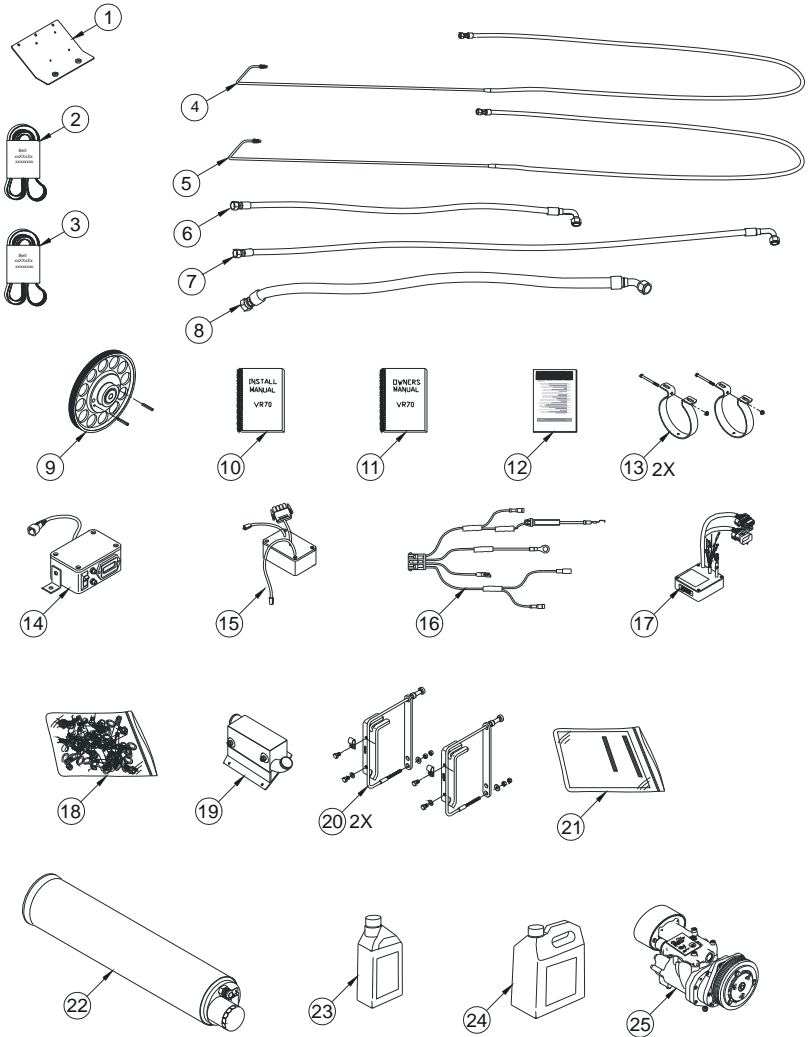


Figure 1 - Kit Pack List

2 - Fastener Pack, 3800469

Item #	Part #	Qty	Description
1	3800275	1	FASTENER PACK, COOLER MOUNT
1.1	1510349	4	BOLT, HHCS NC G8 PL, 5/16 X 1/2
1.2	1570067	4	WASHER, SAE, 5/16
1.3	2200026	2	CLAMP, HOSE HS28
2	3800276	1	FASTENER PACK, HEATER HOSE
2.1	1710522	1	HOSE, 5/8 RUBBER HOSE 38.0(1700027)
2.2	2200029	2	CLAMP, HOSE HS10
2.3	5300005	1	CONNECTOR, PLASTIC HEATER HOSE, 5/8
3	3800277	1	FASTENER PACK, AIR FILTER MOUNT
3.1	1400096	3	SPACER, SHORT
3.2	1710524	1	MOULDING, (1700523 CUT 4")
4	3800278	1	FASTENER PACK, COOLANT BOTTLE
4.1	1400096	1	SPACER, SHORT
4.2	1710518	1	HOSE, RAD MODIFIED (FROM 70637)
4.3	2200001	2	CLAMP, HOSE MH-6
4.4	2200083	1	CLAMP, C R.I., 1 1/4
4.5	5300031	1	ELBOW, MODIFIED, HOSE BARB PVC, 1"
4.6	2200047	2	CLAMP, HOSE, HS16
5	3800279	1	FASTENER PACK, PULLEY
5.1	1520518	1	BOLT, HHCS G10.9, M18 X 1.5 X 100
5.2	3200234	1	KEY, LOCATING
6	3800280	1	FASTENER PACK, TANK FITTINGS
6.1	4900036	1	ELBOW, STEEL JIC SWIVEL 45, 3/4
6.2	4900056	1	ELBOW, STEEL SWIVEL 45, 1/2
6.3	4900079	1	ELBOW, STEEL, 90 DEG, 3/4 NPT-3/4 JIC
7	3800295	1	FASTENER PACK, DIPSTICK
7.1	1520147	1	BOLT, HHCS G8.8, M8 X 1.25 X 20 FULL
7.2	1520258	1	BOLT, HHCS G8.8, M8 X 1.25 X 10
7.3	1570260	2	WASHER, INT SERR LOCK, 5/16
8	3800470	1	FASTENER PACK, FAN SPACER
8.1	3400046	1	SPACER, FAN

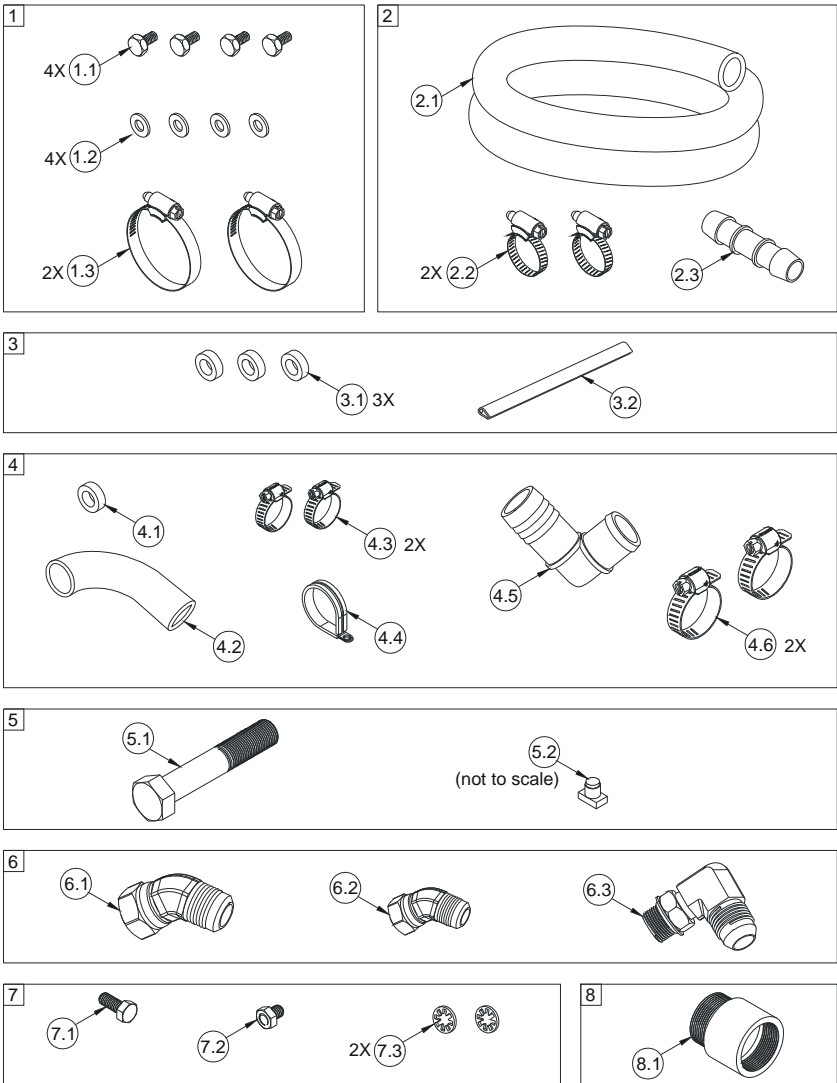


Figure 2 – Fastener Packs

3 - Compressor Assembly, P120063

Item #	Part #	Qty	Description
1	1500399	2	STUD, M8 X 1.25 X 38
2	1520147	1	BOLT, HHCS G8.8,M8 X 1.25 X 20 FULL
3	1540530	2	BOLT, SHCS, M8 X 1.25 X 55, G12.9
4	1540550	2	BOLT, SHCS, M8 X 1.25 X 50, GR 12.9
5	1560508	2	NUT, W/DBL SER WASHER, M8 X 1.25
6	1570260	1	WASHER, INT SERR LOCK, 5/16
7	1570482	1	WASHER
8	3500288	1	SENSOR, PRESSURE
9	4300076	1	PIPE FTG, PLUG SKT HEAD, 1/8
10	4300076	1	PIPE FTG, PLUG SKT HEAD, 1/8
11	4900002	1	ELBOW, STEEL JIC/O-RING, 1/2 3/4-16
12	4900070	1	ELBOW, JIC, 7/8 - 14 X 1 1/16 - 12
13	5000063	1	CONNECTOR, BRASS PIPE-TUBE, 1/8-1/4
14	5000081	1	ELBOW, BRASS NPT-TUBE, 1/8-5/16
15	5000112	1	ELBOW, BRASS STREET 45 DEG, 1/8
16	5000121	1	TEE, STREET, EXTRUDED, 1/8
17	5830004	1	O-RING, VITON, 3 1/8 ID X 1/8
18	5830005	1	O-RING, VITON, 11/16 ID X 3/32
19	5830045	1	O-RING, VITON, 3/4 ID X 3/32
20	9200419	1	ASSEMBLY, INLET CONTROL VALVE
21	P120005	1	VR70 COMPRESSOR ASSEMBLY

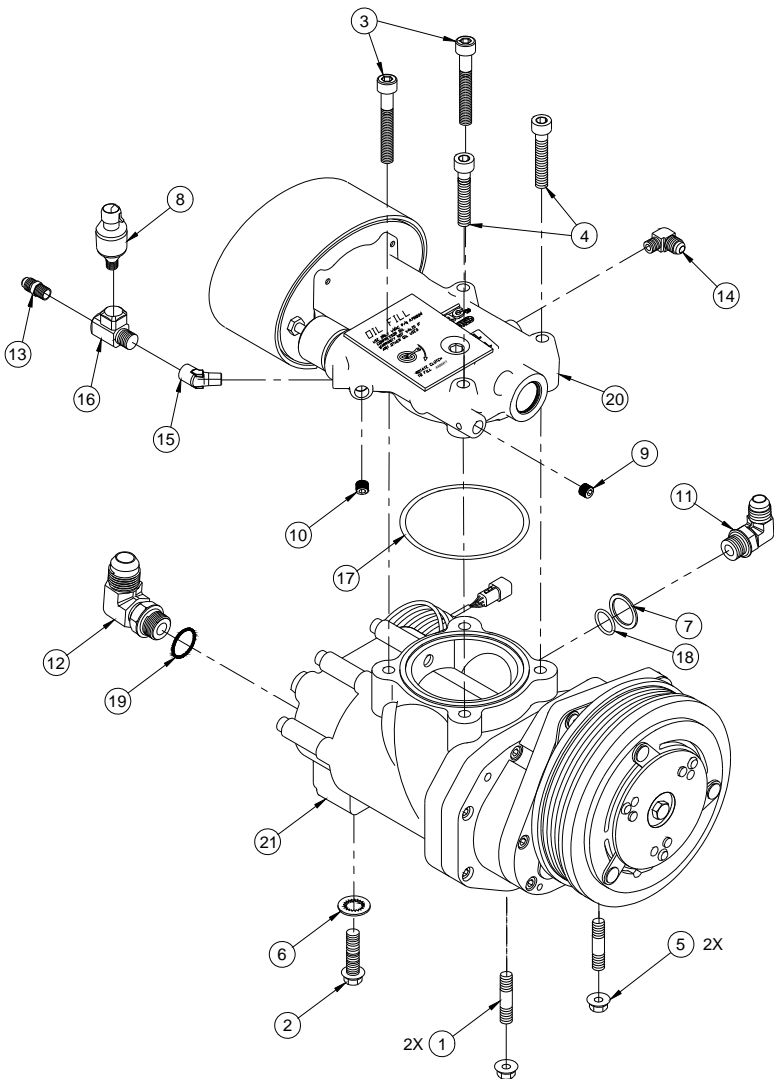


Figure 3 – Compressor Assembly

4 - Compressor Sub Components, P120005

Item #	Part #	Qty	Description
1	3550682	1	TEMPERATURE PROBE
2	P200035	1	CLUTCH COMPLETE 6 GROOVE

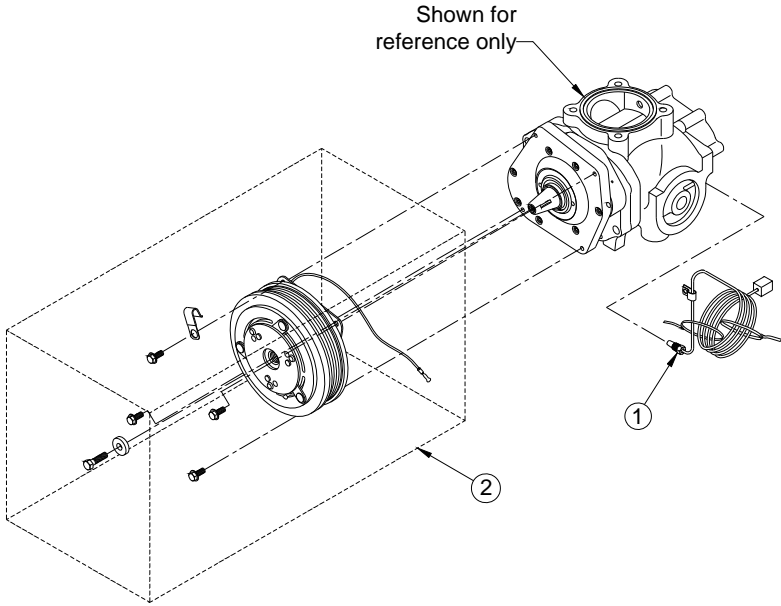


Figure 4– Compressor Sub Components

5 - Inlet Valve Sub Components, 9200419

Item #	Part #	Qty	Description
1	3600046	1	REGULATOR VALVE
2	4900045	1	PLUG
3	5830002	1	O-RING, VITON, 2 3/8 ID X 3/32
4	5830129	1	O-RING, VITON, 1 7/8 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	1570038	1	WASHER, FLAT SAE, 1/4
5.6	3200205	1	PLATE, INNER FILTER
5.7	3600037	1	ELEMENT, FILTER, PAPER
5.8	3600066	1	COVER, AIR FILTER, PLASTIC
5.9	5830070	1	O-RING, VITON, 2 9/16 ID X 3/32

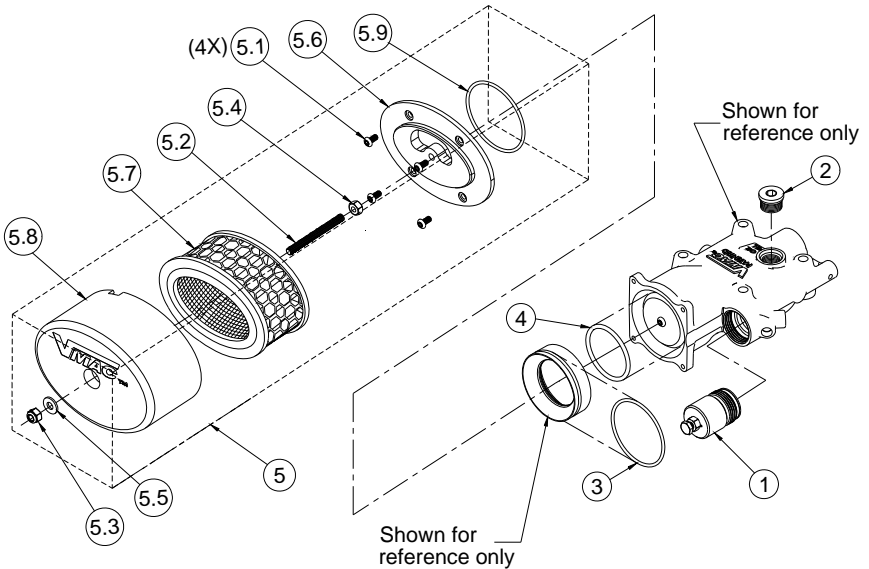


Figure 5 – Inlet Valve Sub Components

6 - VR70 Tank, 9200380

Item #	Part #	Qty	Description
1	1510086	6	BOLT, HHCS NC G5 FL LK, 3/8 X 1
2	1510522	2	BOLT, HHCS NC G8 FL LK PL, 1/4 X 1/2
3	3200231	1	COVER, SIGHT GLASS
4	3600036	1	ELEMENT, SEP, COALESING
5	3600064	1	SEAL, TANK REAR CAP
6	3600090	1	THIMBLE, SCREEN
7	4900033	1	CONNECTOR, STEEL NPT-JIC, 3/4-3/4
8	4900035	1	NIPPLE, STEEL STR THRD, 3/4 - 16
9	4900106	1	PLUG, STEEL, #5 ORB HEX
10	5000089	1	CONNECTOR, BRASS NPT-SAE, 3/8 - 1/2
11	5830066	1	O-RING, VITON, 4 3/4 ID X 1/8
12	5840069	1	SPRING, COMPRESSION, FL 1.5", OD .54
13	5840078	1	SPRING, WAVE
14	9200039	1	OIL FILTER, VR 3.250 SHORT
15	9200364	1	ASSEMBLY, BLOWDOWN CAP
15.1	3600054	1	VALVE, SAFETY 200 PSI
15.2	4500104	1	MUFFLER, SINTERED EXHAUST
16	A700061	1	SIGHT GLASS ASSEMBLY

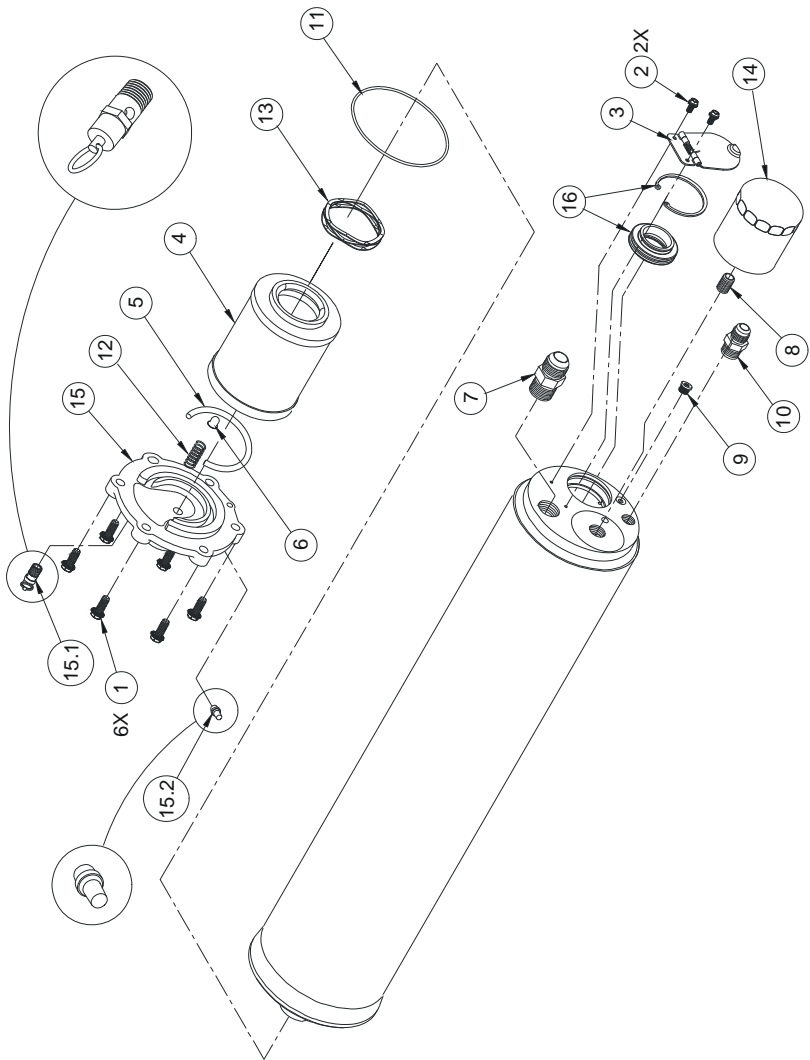


Figure 6 - VR70 Tank

7 Tank Mount Strap Assembly, 4800280

Item #	Part #	Qty	Description
1	1200236	1	BRACKET, STRAP, TANK MOUNT
2	1400051	1	SPACER, IDLER - BOLT
3	1510349	2	BOLT, HHCS NC G8 PL, 5/16 X 1/2
4	1550066	2	NUT, HEX NC, 5/16
5	1570067	1	WASHER, SAE, 5/16
6	1570476	1	WASHER, 5/16 ID X 3/4 OD
7	2200120	1	STRAP, TANK CABLE, 17
8	2200133	1	CLAMP, INSULATED DOUBLE TUBE, 1/4
9	2200137	1	STRAP, BACKING, TANK, FLAT BAR

Note: Two assemblies per kit

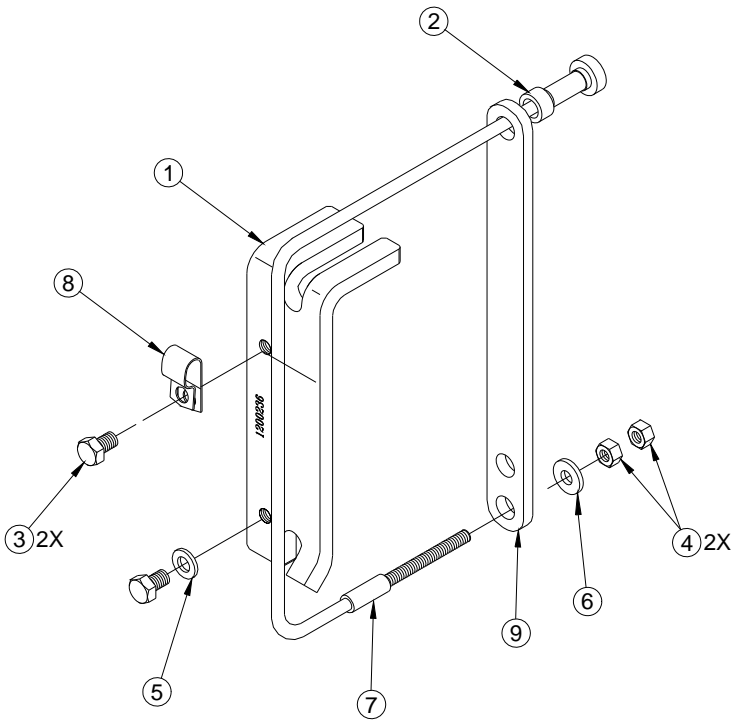


Figure 7 – Tank Mount Strap Assembly

8 - Adaptor Kit, Vacuum Pump Bracket, A700098

Item #	Part #	Qty	Description
1	1100154	1	BRACKET, SMOG PUMP
2	1400245	2	SPACER, SMOG PUMP
3	1710661	1	HOSE, 300 PSI 3/8 X 24" (1700030)
4	1900814	1	INSTALLATION INSTRUCTIONS (A700098)
5	3800419	1	FASTENER PACK, VACUUM PUMP

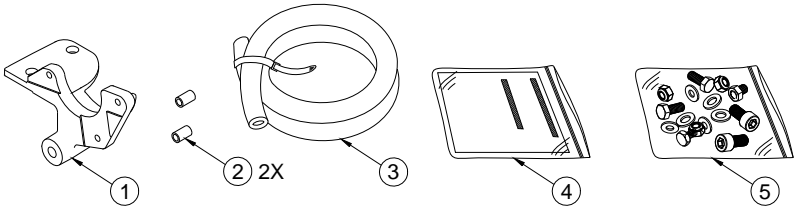


Figure 8 - Adaptor Kit, Vacuum Pump Bracket

9 –Fastener Pack, 3800419

Item #	Part #	Qty	Description
1	1530521	3	BOLT, SHCS NC G8, 1/4 X 1 1/2
2	1540145	2	BOLT, SHCS, M10 X 1.5 X 20
3	1540517	1	BOLT, SHCS, M10 X 1.5 X 90, LOW PRO
4	1550029	3	NUT, NYLOCK NC, 1/4
5	1570038	3	WASHER, FLAT SAE, 1/4
6	1570044	2	WASHER, ALLOY PL SAE, 3/8

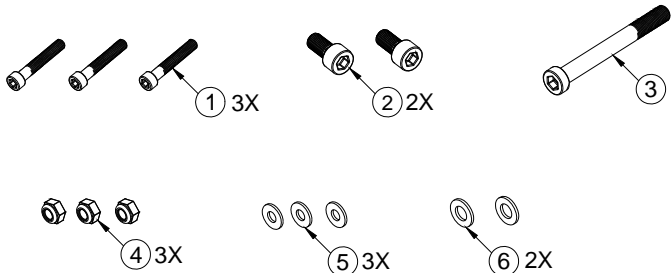


Figure 9 - Fastener Pack

10 - Adaptor Kit, 2002 – 2004.5 Model Year, A700125

Item #	Part #	Qty	Description
1	1200286	1	BRACKET, FUEL CONTROL MODULE
2	1200373	1	BRACKET, FUEL BLEED/ DIPSTICK
3	3800297	1	FASTENER PACK, FUEL CONTROL
4	3800362	1	FASTENER PACK, BREATHER CHAMBER
5	4800335	1	BRACKET, GMC, 1100147, 2003

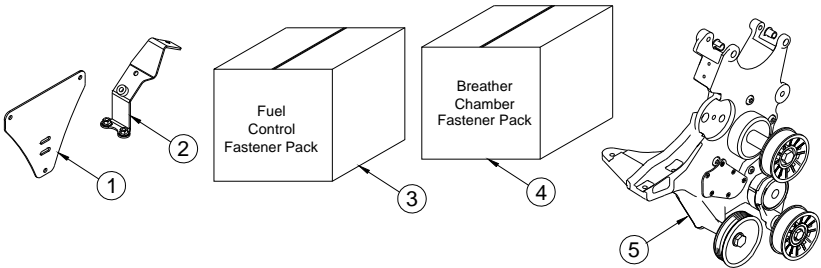


Figure 10 - Adaptor Kit, 2002 – 2004.5 Model Year

11 – Fastener Pack, Fuel Control, 3800297

Item #	Part #	Qty	Description
1	1710520	1	HOSE, 1/2 FUEL LINE 4.0" (1700517)
2	1710543	1	HOSE, 1/2 FUEL LINE 8.0" (1700517)
3	1710549	1	HOSE, 5/8 OIL HOSE, 48" (1700541)
4	2200001	4	CLAMP, HOSE MH-6

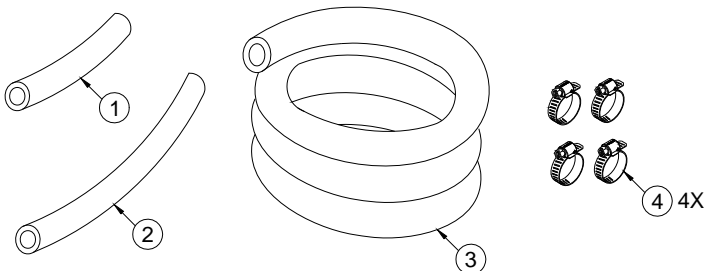


Figure 11 –Fastener Pack, Fuel Control

12 –Fastener Pack, Breather Chamber, 3800362

Item #	Part #	Qty	Description
1	1710602	1	HOSE, 5/16 OIL HOSE, 12" (1700540)
2	1710603	1	HOSE, 5/8 OIL HOSE, 13" (1700541)
3	1710604	1	HOSE, 5/8 OIL HOSE, 29" (1700541)
4	2200001	2	CLAMP, HOSE MH-6
5	2200002	4	CLAMP, HOSE MH-10
6	2200131	1	CLAMP, C.R.I., 1
7	5300005	1	CONNECTOR, PLASTIC HEATER HOSE, 5/8

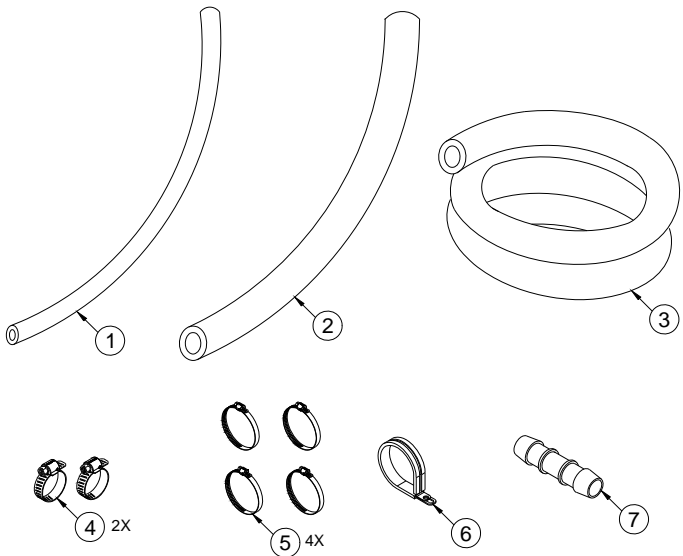


Figure 12 –Fastener Pack, Breather Chamber

13 –Bracket, 4800335

Item #	Part #	Qty	Description
1	1100147	1	BRACKET, GMC, DURAMAX, 2003
2	1200292	1	BRACKET, PULLEY GUARD
3	1200344	1	PLATE, BREATHER CHAMBER COVER
4	1200415	1	PLATE, TENSIONER
5	1300007	2	IDLER, SERP 6 RIB BACK
6	1300008	1	IDLER, SERP 6 RIB GROOVE
7	1400051	1	SPACER, IDLER - BOLT
8	1400191	1	SPACER, IDLER
9	1500318	6	SCREW, FH PHILLIPS, 10-24 X 1/2(SS)
10	1500403	1	BOLT, MACHINED IDLER, 1/2 X 1 1/4
11	1520090	1	BOLT, HHCS G10.9, M10 X 1.5 X 30
12	1520430	1	BOLT, HHCS G10.9, M14 X 1.5 X 110
13	1540204	3	BOLT, SHCS, M8 X 1.25 X 25
14	1540525	4	BOLT, SHCS, M10 X 1.5 X 85
15	1560138	1	NUT, NYLOCK PL, M10 X 1.5
16	1570044	2	WASHER, ALLOY PL SAE, 3/8
17	1570308	1	WASHER, FLAT PL, 1/2
18	2600113	1	TENSIONER, MODIFIED (3300020)
19	4300079	2	BUSHING, SPLIT FLARED
20	4800297	1	IDLER
21	5000006	1	CONNECTOR, BRASS NPT-HOSE, 1/2-5/8
22	5000028	1	ELBOW, BRASS, NPT-HOSE, 1/2-5/8

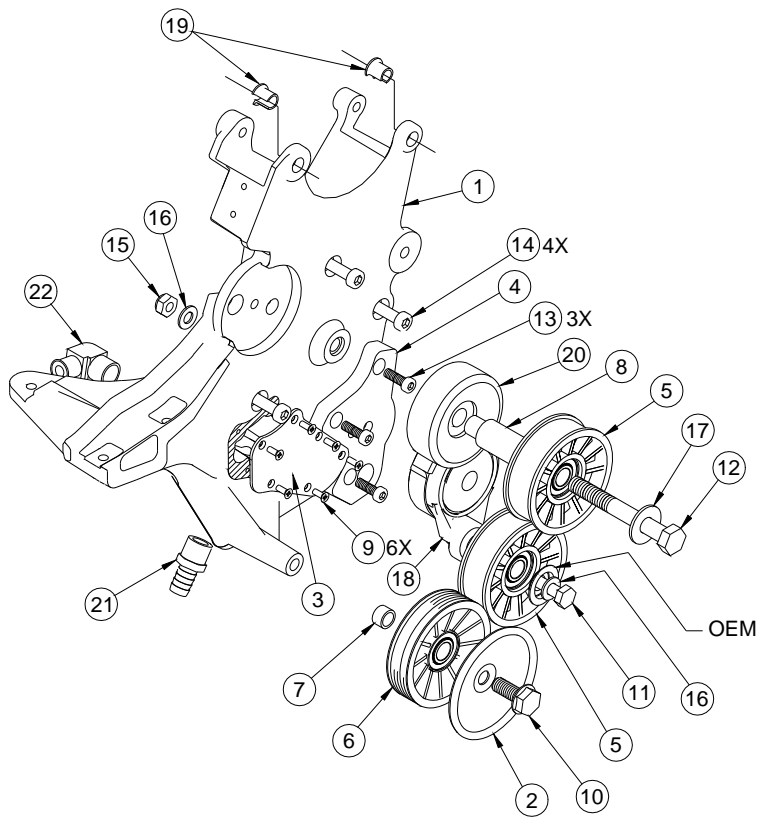


Figure 13 –Bracket

14 - Adaptor Kit, 2004.5 – 2005 Model Year, A700126

Item #	Part #	Qty	Description
1	1200417	1	BRACKET, FUEL MODULE MOUNTING
2	1200419	1	BRACKET, DIP STICK TUBE
3	3800471	1	FASTENER PACK, A700126
4	4800416	1	ASSEMBLY, MAIN BRACKET

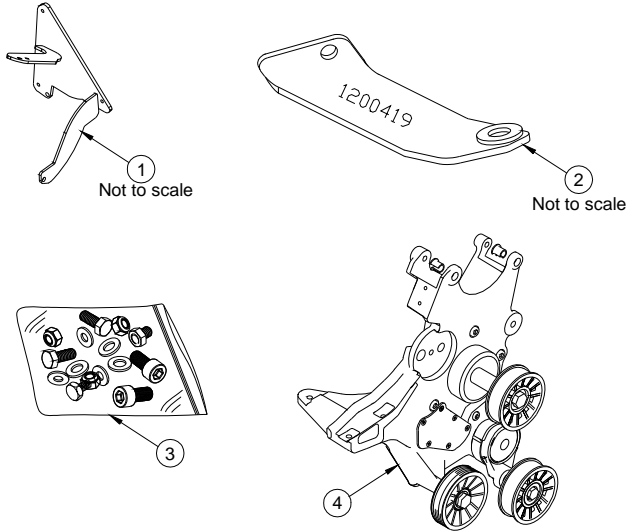


Figure 14 - Adaptor Kit, 2004.5 – 2005 Model Year

15 – Fastener Pack, 3800471

Item #	Part #	Qty	Description
1	1510519	2	BOLT, HHCS NC G8 FL LK PL, 1/4X5/8
2	1520147	1	BOLT, HHCS G8.8,M8 X 1.25 X 20 FULL
3	1560508	1	NUT, W/DBL SER WASHER, M8 X 1.25
4	1710659	1	HOSE,OIL RESIST, 1/2 X 68" (1700553)
5	2200001	4	CLAMP, HOSE MH-6
6	4900091	1	CONNECTOR, BANJO FITTING
7	4900092	1	ASSEMBLY, BANJO FITTING

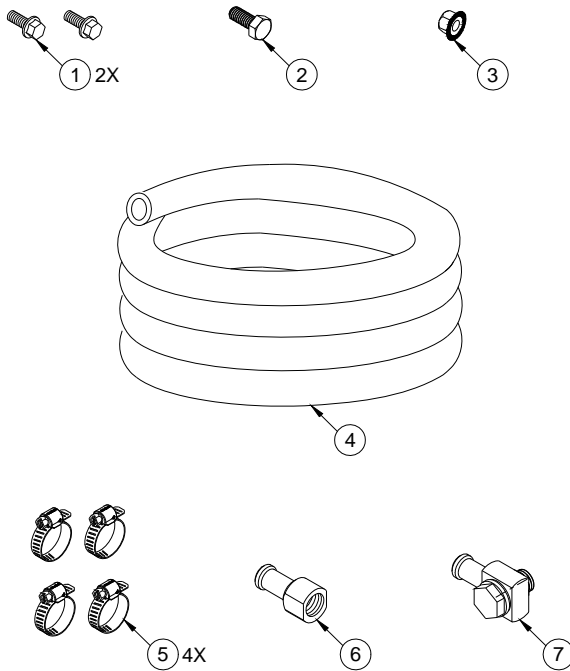


Figure 15 – Fastener Pack

16 –Bracket, 4800416

Item #	Part #	Qty	Description
1	1100162	1	BRACKET, DURAMAX RPO/LLY
2	1200292	1	BRACKET, PULLEY GUARD
3	1200415	1	PLATE, TENSIONER
4	1300031	2	IDLER, SERP, FLANGE, BACK, 90 MM, STEEL
5	1300030	1	IDLER, SERP, FLANGE, 6-RIB, 90 MM, STEEL
6	1400051	1	SPACER, IDLER - BOLT
7	1400191	1	SPACER, IDLER
8	1500403	1	BOLT, MACHINED IDLER, 1/2 X 1 1/4
9	1520090	1	BOLT, HHCS G10.9, M10 X 1.5 X 30
10	1520430	1	BOLT, HHCS G10.9, M14 X 1.5 X 110
11	1540204	3	BOLT, SHCS, M8 X 1.25 X 25
12	1540525	4	BOLT, SHCS, M10 X 1.5 X 85
13	1560138	1	NUT, NYLOCK PL, M10 X 1.5
14	1570044	2	WASHER, ALLOY PL SAE, 3/8
15	1570308	1	WASHER, FLAT PL, 1/2
16	2600113	1	TENSIONER, MODIFIED (3300020)
17	4300079	2	BUSHING, SPLIT FLARED
18	4800297	1	IDLER

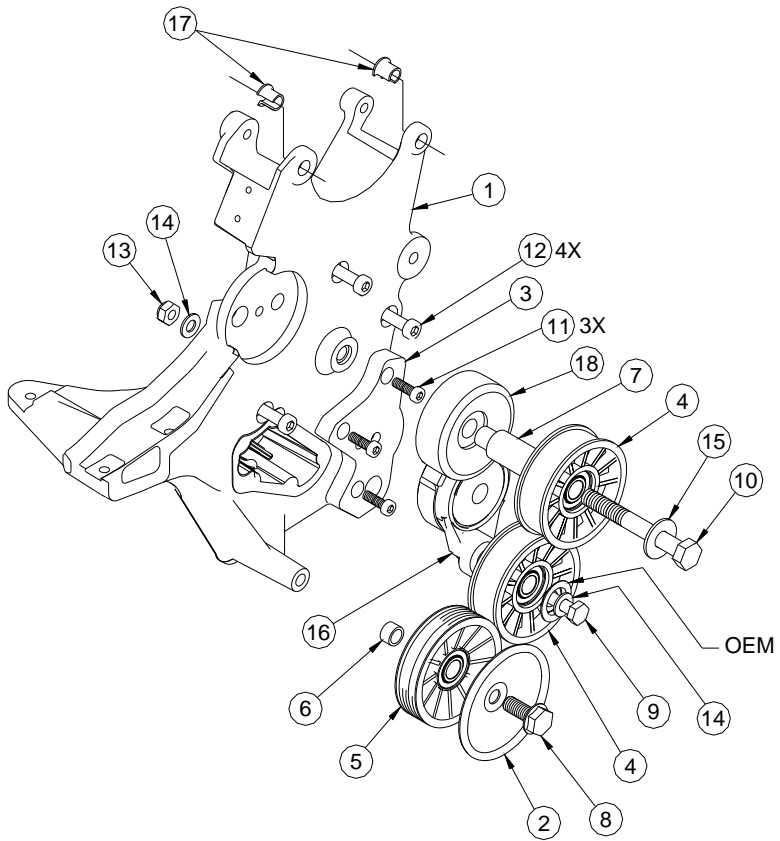


Figure 16 –Bracket