



5.0 Throttle Control

2.0 Compressor Assembly

4.0 Hose Kit

1.0 Main Bracket Assembly

3.0 Tank Assembly

6.0 Tank Brackets

7.0 Cooler Assembly

8.0 Electrical

9.0 Misc.

VMAC™ SYSTEM #V900040
VR70

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ILLUSTRATED PARTS LIST SYSTEM V900040 DOGGE 1998.5 - 2002
5.9L CUMMINS 24 VALVE DIESEL with Air Conditioning

ASSY.ITEM	UNIT	QTY	PART#	DESCRIPTION
1.0				Main Bracket Assembly
1.1	ea	1	1100134	Main bracket
1.2	ea	2	1300007	Idler, 6-rib smooth
1.3	ea	2	1400051	Spacer, Idler bolt
1.4	ea	2	1510161	Bolt, hex head 1/2 x 1-1/4 inch NC G8 flange lock
1.5	ea	1	1800137	Pulley VR crankshaft
1.6	ea	4	OEM	Bolt
1.7	ea	1	1520147	Bolt, hex head M8 1.25 x 20mm
1.8	ea	1	3300023	Adjuster Dayco 89211 + fittings
1.9	ea	2	1560508	Nut, hex 8mm x 1.25 with double serrated washer
1.10	ea	1	1400140	Stub, air conditioning
1.11	ea	2	1500399	Stud, 8mm x 38mm
1.12	ea	1	1520203	Bolt, hex head 8mm x 25mm full thread
1.13	ea	3	1570058	Washer, split lock 5/16 inch
1.14	ea	1	1560406	Nut, 12mm Nylok
1.15	ea	1	1570048	Washer, 7/16 inch SAE, plated
1.16	ea	1	3400016	Fan spacer
1.17	ea	1	1620248	OEM belt, 8-rib
1.18	ea	1	1650350	VR70 belt
1.19	ea	1	1300008	Idler, 6-rib grooved
1.20	ea	1	1400129	Spacer, idler .080
1.21	ea	1	1520419	Bolt, hex head G10.9 M12. 1.75 x 80mm
1.22	ea	1	OEM	Bolt
1.23	ea	1	OEM	Dished Washer

ASSY.ITEM	UNIT	QTY	PART#	DESCRIPTION
2.0			P120049	Compressor Assembly
2.1	ea	1	P120002	VR70 compressor
2.2	ea	1	9200212	Inlet valve
2.3	ea	1	1500029	Nut, hex, 1/4 inch NC Nylok
2.4	ea	1	1570038	Washer, flat, 1/4 inch SAE
2.5	ea	1	3600066	Filter cover
2.6	ea	1	1500519	Rod 1/4 inch NC threaded, 2.62 inch
2.7	ea	1	1550221	Nut, hex, 1/4 inch NC
2.8	ea	1	3600037	Filter element
2.9	ea	1	5000081	Elbow, 90 degree, 1/8 inch NPT
2.10	ea	4	1540375	Bolt, socket head M8 x 1.25 x 45mm
2.11	ea	1	5000020	Connector elbow, 1/4 inch poly tube - 1/8 NPT male
2.12	ea	1	5000020	Connector elbow, 1/4 inch poly tube - 1/8 NPT male
2.13	ea	1	5000064	Elbow, 90 degree 1/4 inch poly tube - 1/8 NPT male
2.14	ea	1	5000018	Plug, 1/8" NPT hex socket
2.15	ea	4	1540389	Bolt, socket head M8 x 1.25 x 18mm low profile
2.16	ea	1	9200036	Inlet valve angle adaptor
2.17	ea	2	2200097	Cable clamp, 1/4 inch
2.18	ea	1	1570482	Washer 7/8 inch ID
2.19	ea	1	5830005	O-ring, Vitron 11/16 inch ID
2.20	ea	1	P200035	Clutch, complete
2.21	ea	1	3550363	Temperature probe and cable assembly
2.22	ea	1	4900002	Elbow, steel JIC/O Ring 1/2 3/4-16



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ASSY	ITEM	UNIT	QTY	PART #	DESCRIPTION
3.0				9200380	Tank Assembly
	3.1	ea	1	9200378	Oil Separator Tank Weldment
	3.2	ea	2	2200105	Mounting Bracket, 6" Dia. C/W fasteners
	3.3	ea	1	3600090	Thimble Screen
	3.4	ea	1	5840069	Spring, Compression, FL 1.5 OD-54
	3.5	ea	1	3600054	200 PSI Relief Valve
	3.6	ea	1	9200217	Blowdown Cap
	3.7	ea	1	3600064	Tank Rear Cap Seal
	3.8	ea	1	3600036	Coalescing Filter Element
	3.9	ea	1	5840068	Compression Spring
	3.10	ea	1	5830066	O-ring, Viton, 4-3/4 ID
	3.11	ea	1	4900035	Nipple, Steel, Straight Thread, 3/4-16
	3.12	ea	1	5000089	3/8 NPT - 1/2 SAE Brass Connector
	3.13	ea	1	9200039	VR70 Oil Filter
	3.14	ea	1	4900036	Elbow, 45 degrees, 3/4 JIC Swivel Nut
	3.15	ea	1	5830043	O-ring, Viton 1-7/8 ID x 1/8
	3.16	ea	1	4900033	3/4 NPT - 3/4 JIC Steel Connector
3.17	ea	1	3600096	Window, Pyrex, 2.12 dia. x .35 thick	
3.18	ea	1	1400235	Ring, 2.12 OD x 1.72 ID x .15	
3.19	ea	1	1500385	Retaining Ring	
3.20	ea	1	3200231	Cover, Sight Glass	

ASSY	ITEM	UNIT	QTY	PART #	DESCRIPTION
4.0					Hose Kit
	4.1	ea	1	1740088	Hose, crimped 5/16 x 88 inch
	4.2	ea	1	1730091	Hose, crimped 1/4 x 91 inch
	4.3	ea	1	1771048	Hose crimped 3/4 x 48 inch
	4.4	ea	1	5000079	Elbow, 45 degree, 1/2 brass
	4.5	ea	1	5000006	Fitting, hose barb 1/2 NPT x 5/8 inch
	4.6	ea	1	2200029	Hose clamp, HS-10
	4.7	ea	1	1700027	Heater hose, 150 PSI, 5/8 x 40 inch
	4.8	ea	1	1750035	Hose, crimped 1/2 x 35 inch
	4.9	ea	1	1700027	Heater hose, 150 PSI, 5/8 x 50 inch
	4.10	ea	1	1752067	Hose, crimped with 90 degree elbow, 1/2 x 67 inch

ASSY	ITEM	UNIT	QTY	PART #	DESCRIPTION
5.0				3620057	Throttle Control
	5.1	ea	1	3620039	Throttle Control, mechanical
	5.2	ea	1	9200147	Elbow, orifice 90 deg., 1/8 inch NPT - 1/4 inch poly
	5.3	ea	1	1700055	Tube, 1/4 inch black poly, 24 inch long
	5.4	ea	1	1700334	Tube, 1/4 inch red poly, 23 inch long
	5.5	ea	1	5000020	Elbow, 1/4 inch poly tube to 1/8 inch NPT male
	5.6	ea	1	1200242	Throttle control bracket
	5.7	ea	4	1570350	Washer, lock internal serrated 1/4 inch
	5.8	ea	4	1510519	Bolt, flanged hex head 1/4 x 5/8 inch NC G8 plated
	5.9	ea	1	3200070	Nipple, throttle pull cable
	5.11	ea	1	3200058	Cable clamp fitting
	5.12	ea	1	1200272	Throttle pull arm
	5.13	ea	1	1500410	Cotter pin



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ASSY.ITEM	UNIT	QTY	PART #	DESCRIPTION
6.0 Tank Brackets				
6.1	ea	1	1200244	Mounting bracket (tank rear)
6.2	ea	2	2200135	Tank cable strap
6.3	ea	1	2200119	Tank strap flat bar (rear)
6.4	ea	1	1200243	Mounting bracket (tank front)
6.5	ea	1	2200125	Tank strap flat bar (front)
6.6	ea	4	1550066	Nut, 5/16 inch NC
6.7	ea	2	1570476	Washer Flat 5/16 ID x 3/4 OD

ASSY.ITEM	UNIT	QTY	PART #	DESCRIPTION
7.0 Oil Cooler Assembly				
7.1	ea	1	9200188	Oil Cooler assembly
7.2	ea	2	5000001	Elbow, hose barb 90 degree, 1/2 NPT - 5/8 inch
7.3	ea	2	2200029	Hose clamp, HS-10

ASSY.ITEM	UNIT	QTY	PART #	DESCRIPTION
8.0 Electrical				
8.1	ea	1	3550389	Interface cable
8.2	ea	1	3550412	Switch box
8.3	ea	1	3550404	Low profile control panel
8.4	ea	1	3550523	Drive disable circuit

ASSY.ITEM	UNIT	QTY	PART #	DESCRIPTION
9.0 Misc.				
9.1	ea	1	1200246	Low profile control box bracket
9.2	ea	2	4800257	Tank hose clamp assembly
9.3	ea	1	1200109	Radiator bottle bracket
9.4	ea	2	2200001	Hose clamp MH-6
9.5	in	11.75	1700030	Hose, 300 PSI, 3/8 inch
9.6	ea	1	1200169	Alternator bracket
9.7	ea	1	5300001	Tee, nylon 5/8 inch
9.8	ea	3	2200029	Hose clamp, HS-10
-	ea	1	A700091	Oil, VR High Performance, 1 Litre
-	ea	1	A700094	Oil, VR High Performance, 4 Litre