

MVMA Specifications

Vehicle Line Sebring
 Model Year 1995 Issued 1994-11 Revised (v) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

420A (1.996 Liters)

6G73 (2.497 Liters)

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	In line, Front Transverse, DOHC	V60° Front Transverse
Manufacturer	Chrysler Corporation	Mitsubishi Motors Corporation
No. of cylinders	4	6
Bore	87.5	83.5 (mm)
Stroke	83.0	76.0 (mm)
Bore spacing (C / L to C / L)	96.0	108.0 (mm)
Cylinder block material & mass kg (lbs.) (machined)	Cast iron, 44.45 (98)	Cast iron, 49 (107.9)
Cylinder block deck height	212.0	210.5 (mm)
Cylinder block length	417.3	384.0 (mm)
Deck clearance (minimum) (above or below block)	+0.80 Above deck and -0.4 Below deck	Above, 0.4
Cylinder head material & mass kg (lbs.)	Aluminum alloy, 13.56(29.9)	Aluminum alloy, 8.8(19.4)x2
Cylinder head volume cm ³ (inches ³)	19.3x12.4x45.5=10,890cc Approximate	43.1 (2.63)
Cylinder liner material	N.A.	N.A.
Head gasket thickness (compressed)	1.15	1.36
Minimum combustion chamber total volume cm ³ (inches ³)	-	49.4 (3.01)
Cyl. no. system (front to rear)*	L. Bank	N.A.
	R. Bank	N.A.
Firing order	1-3-4-2	1-2-3-4-5-6
Intake manifold material & mass kg (lbs.)**	Aluminum alloy, 4.45(9.814)	Aluminum alloy, 6.3(13.9)
Exhaust manifold material & mass kg (lbs.)**	Cast iron, 6.305(13.90)	Sus pipe, right 3.8(8.4), left 3.0(6.6)
Knock sensor (number & location)	#1, Right side middle portion of cylinder block	N.A.
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) ÷ 2	No less than 91	
Engine mounts	Quantity	4
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Rubber (elastomeric and Hydroelastic)
	Added isolation (sub-frame, crossmember, etc.)	Cross member and front frame
Total dressed engine mass (wt) dry***	130.27kg or 287.2 lbs.	174.0 kg or 384.0 lbs.

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 351.2(12.387)	Aluminum alloy, 326(11.5)
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Engine - Camshaft

Location	Above each IN. and EX. valve on cylinder-head	Center of IN. and EX. valve on cylinder-head
Material & mass kg (weight, lbs.)	Nodular iron, 2.02(4.454)	Cast iron, right:2.5(5.5), left:2.9(6.4)
Drive type	Chain / belt	Belt
	Width / pitch	29 / 9.525

* Rear of engine -- drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

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Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Std.	Std.
Valves	Number intake / exhaust	8/8
	Head O.D. intake / exhaust	34.8 / 30.5
		12/12
		33 / 29

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged iron, 0.552 (1.217)	Drop-forged steel, 0.64(1.41)
Length (axes C/L to C/L)	139	141

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Forged iron, 14.92(32.9)	Cast iron, 14.8(32.6)
End thrust taken by bearing (no.)	#3	#3
Length & number of main bearings	Length 21mm, #5	Length 18.4mm, #4
Seal (material, one, two piece design, etc.)	Front	Synthetic rubber, One piece
	Rear	Synthetic rubber, One piece
	Viton radial lip	
	O-ring and plugs	

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	276 (40) at 2800	300 (42.7) at 2000
Type oil intake (floating, stationary)	Stationary	Stationary
Oil filter system (full flow, part, other)	Full flow	Full flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)	4.0 (4.2)

Engine - Diesel Information

Diesel engine manufacturer	-
Glow plug, current drain at 0°F	-
Injector nozzle	Type
	Opening pressure kPa (psi)
Pre-chamber design	-
Fuel injection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	-
Supplementary vacuum source (type)	-
Fuel heater (yes/no)	-
Water separator, description (std., opt.)	-
Turbo manufacturer	-
Oil cooler-type (oil to engine coolant; oil to ambient air)	-
Oil filter	-

Engine - Intake System

Turbo charger - manufacturer	N. A.
Super charger - manufacturer	N. A.
Intercooler	N. A.

* Finished State

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MT	AT	

Engine – Cooling System

Coolant recovery system (std., opt., n.a.)		Std.	Std.	
Coolant fill location (rad., bottle)		Bottle	Bottle	
Radiator cap relief valve pressure kPa (psi)		108 (16)	88 (12.8)	
Circulation thermostat	Type (choke, bypass)	Bypass	Choke pellet	
	Starts to open at °C (°F)	90.5 (195)	82 (179.6)	
Type (centrifugal, other)		Centrifugal		
GPM 1000 pump rpm		10GPM	-	
Number of pumps		#1	1	
Water pump	Drive (V-belt, other)	Cog belt	Timing belt	
	Bearing type	Roller ball	Roller and ball, integral shaft, permanently sealed	
	Impeller material	Stamped steel	Cold-rolled carbon steel sheet	
	Housing material	Aluminum	Aluminum die casting	
	By-pass recirculation type (inter., ext.)		External	
Cooling system capacity	With heater – L(qt.)	7.0 (7.4)		
	With air conditioner – L(qt.)	7.0 (7.4)		
	Opt. equipment specify – L(qt.)	N.A.		
Water jackets full length of cyl. (yes, no)		Yes	Yes	
Water all around cylinder (yes, no)		No	Yes	
Water jackets open at head face (yes, no)		Yes	No	
Radiator core	Std., A/C, HD		Std. and A/C	
	Type (cross-flow, etc.)		Down-flow	
	Construction (fin & tube mechanical, braze, etc.)		Tube and corrugated fin brazed	
	Material, mass kg (wgt., lbs.)	Brass and copper 3.45kg	Aluminum 3.45kg	
	Width		680	
	Height		350	
	Thickness		16	27
	Fins per inch		17	15
Radiator end tank material		Plastic		
Fan	Std., elec., opt.		Electric	
	Number of blades & type (flex, solid, material)		5	
	Number & location (front, rear of radiator)		1 (Rear of radiator)	
	Diameter & projected width		320	
	Ratio (fan to crankshaft rev.)		N.A.	
	Fan cutout type		N.A.	
	Drive type (direct, remote)		N.A.	
	RPM at idle (elec.)		2150	2250
	Motor rating (wattage/elec.)		80	120
	Motor switch (type & location/elec.)		Thermo switch, engine	
	Switch point (temp./pressure/elec.)		85°C ~ 105°C	
Fan shroud (material)		Plastic		

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Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection	
Manufacturer		Bosch	NIPPON INJECTOR COMPANY LIMITED
Carburetor no. of barrels		-	-
Idle A/F mix.		Stoichiometric(Closed loop)	14.7
Fuel injection	Point of injection (no.)	Inlet port (4)	Inlet port (6)
	Constant, pulse, flow	Sequential pulse width control	5.76mm ³ /2.5m sec
	Control (electronic, mech.)	Electronic	Electronic
	System pressure kPa (psi)	331 (48)	329 (47.6)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	800 (A/C ON 850)	-
	Automatic	N:800(A/C ON 850), D:700(A/C ON 800)	N:750 (D:700)
Intake manifold heat control (exhaust or water thermostatic or fixed)		N.A.	N.A.
Air cleaner type		Dry non-woven cloth	
Fuel filter (type/location)		Paper element; engine room	
Fuel pump	Type (elec. or mech.)	Electric	
	Location (eng., tank)	In fuel tank	
	Pressure range kPa (psi)	Max. 637 (93)	
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	80 (21.1), @294 (43)	

Fuel Tank

Capacity refill L (gallons)		64 (16.9)
Location (describe)		Under rear seatpan
Attachment		Bolt and nut
Material & Mass kg (weight lbs.)		Steel, 15.62 (34.3)
Filler pipe	Location & material	Right, rear quarter panel, steel
	Connection to tank	Rubber hose
Fuel line (material)		Steel pipe
Fuel hose (material)		Rubber hose
Return line (material)		Steel pipe
Vapor line (material)		Steel pipe
Extended range tank	Opt., n.a.	N.A.
	Capacity L (gallons)	N.A.
	Location & material	N.A.
	Attachment	N.A.
Auxiliary tank	Opt., n.a.	N.A.
	Capacity L (gallons)	N.A.
	Location & material	N.A.
	Attachment	N.A.
	Selector switch or valve	N.A.
Separate fill		N.A.

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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Three-way catalyst with feedback control, exhaust gas recirculation		
	Air Injection	Pump or pulse	Pulse (Aspiration)	N.A.	
		Driven by	N.A.	N.A.	
		Air distribution (head, manifold, etc.)	Air cleaner	N.A.	
		Point of entry	Exhaust front pipe	N.A.	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)		Controlled flow	
		Exhaust source		Exhaust manifold port No.4	Exhaust manifold (left)
		Point of exhaust injection (spacer, carburetor, manifold, other)		Intake manifold	Surge tank
	Catalytic Converter	Type		Three-way	
		Number of		1	3
		Location(s)		Under-floor	Exhaust manifold x 1 Front pipe x 1, Under floor x 1
		Volume L (in ³)		1.0(61) + 0.7(43)	0.44(27), 0.44(27), 1.0(61)+0.7(43)
		Substrate type		Monolith	
		Noble metal type		-	
	Noble metal concentration (g/cm ³)		-		
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction system		
	Energy source (manifold vacuum, carburetor, other)		Intake manifold vacuum		
	Discharges to (intake manifold, other)		To intake manifold		
	Air inlet (breather cap, other)		Air intake hose		
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister		
		Carburetor	-		
Vapor storage provision		Canister			
Electronic system	Closed loop (yes/no)		Yes		
	Open loop (yes/no)		Yes-During certain operating condition	Yes	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single	Single with cross-over, dual
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs)		1 (Reverse flow) Stainless steel 11.0 (24.2)	
Resonator no. & type		1(Straight thru), Stainless steel 2.15(4.73)	2(Straight thru), Stainless steel 2.96(6.51)
Exhaust pipe	Branch o.d., wall thickness	-	54 x 1.5
	Main o.d., wall thickness	54 x 1.5	
	Material & Mass kg (weight lbs)	Stainless steel 1.6(3.53)	Stainless steel 2.2(4.84)
Inter-mediate pipe	o.d. & wall thickness	54x1.5, 54x1.2	60.5x1.5
	Material & Mass kg (weight lbs)	Stainless steel 3.3(7.26)	Stainless steel 3.4(7.4)
Tail pipe	o.d. & wall thickness	54x1.2	48.6x1.2 (Dual)
	Material & Mass kg (weight lbs)	Stainless steel 0.34(0.76)	Stainless steel 0.62(1.36)