

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

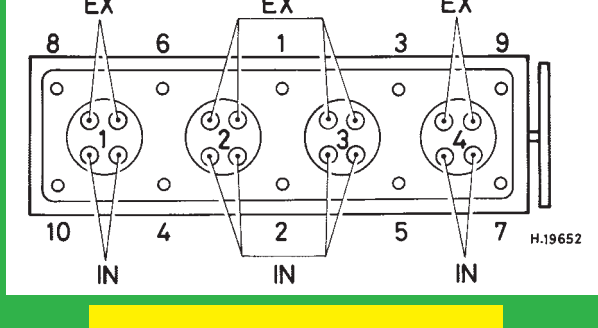
Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

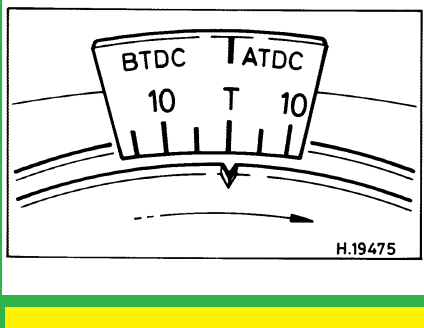
HELP

Engine and cooling system		Space Wagon / Runner 1.8i	1991 to 1997
Type		4G93 SOHC 16V 90kW	
Capacity (cm³) / number of cylinders		1834 / 4	
Compression ratio / pressure	bar	10.0 / ≥10.1	
Oil pressure	bar	—	
Oil temperature	°C	—	
Valve clearance - inlet	mm	0.20 H	
Valve clearance - exhaust	mm	0.30 H	
Firing order		1-3-4-2	
No 1 cylinder position		TBE	
Thermostat opening temperature	°C	88	
Radiator cap pressure	bar	0.76 to 1.04	
Fuel system		Space Wagon / Runner 1.8i	1991 to 1997
Idle speed - manual [auto]	rpm	800±100 N/A	
Fast idle speed - manual [auto]	rpm	—	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1	
HC @ idle speed [3000 rpm] - see page VI	ppm	≤15	
CO2 @ idle speed [3000 rpm] - see page VI	%	—	
O2 @ idle speed [3000 rpm] - see page VI	%	—	
Carburettor / fuel injection		Mitsubishi	
Type / ref		ECI-Multi MPI	
Main jet / needle		—	
Injection pressure	bar	—	
Pump pressure	bar	3.3 to 3.5	
Octane rating	RON	95[U]	
Ignition system		Space Wagon / Runner 1.8i	1991 to 1997
Type		Electronic	
Ignition coil		Mitsubishi.	
Primary resistance	ohms	0.9 to 1.2	
Ballast resistor	ohms	—	
Voltage - Tmnl 15(+) to earth	V	—	
Distributor		Mitsubishi	
Points gap (air gap)	mm	—	
Dwell angle	° (%)	—	
Condenser capacity	µF	—	
Rotation		Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ 800±100	
V = Vacuum NV = No Vacuum		NV	
Total ignition advance	° Crankshaft @ rpm	Computer control	
	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
Centrifugal check.	° Crankshaft @ rpm	Computer control	
	° Crankshaft @ rpm	—	
	° Crankshaft @ rpm	—	
Vacuum range check	mbar	Computer control	
Maximum vacuum advance	° Crankshaft	—	
Spark plugs		NGK	
Type		BKR6E-11	
Electrode gap	mm	1.00 to 1.10	
Electrical system		Space Wagon / Runner 1.8i	1991 to 1997
Battery	V / CC / RC	12 / 70Ah	
Alternator voltage / full load current / engine rpm		13.9 to 14.9 / 60, 65 / 2500	
Starter motor current / voltage - cranking	A / V	60 / 11.5 (no load)	
- locked	A / V	—	
Running gear		Space Wagon / Runner 1.8i	1991 to 1997
Brakes -			
Front (min. friction material thickness)	mm	2.0	
Rear (min. friction material thickness)	mm	2.0	
Tyres			
Saloon	Size	—	
Estate / Van	Size	185/70X14	
Pressure - front / rear - Saloon	bar	—	
- Estate / Van	bar	2.0 / 1.8	
Front suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	0±1.5	
Camber		+20'±30'	
Castor		+2°10'±40'	
King pin inclination		+13°50'	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±1.0	
Camber		+30'±30'	
Torque wrench settings		Space Wagon / Runner 1.8i	1991 to 1997
Cylinder head - stage 1	Nm	75	
- stage 2	Nm	Slacken, then 20	
Cylinder head - stage 3	Nm	+ 90°	
- stage 4	Nm	+ 90°	
Big-end bearings	Nm	20 + 90°	
Main bearings	Nm	25 + 90°	
Clutch cover	Nm	15 to 22	
Flywheel [driveplate]	Nm	100	
Front hubs	Nm	200 to 260	
Rear hubs	Nm	200 to 260	
Wheel nuts / bolts	Nm	90 to 110	
Spark plugs	Nm	20 to 30	
Capacities		Space Wagon / Runner 1.8i	1991 to 1997
Engine oil & filter	litres	3.3	
Gearbox - 4-speed [5-speed]	litres	1.8	
Automatic transmission - refill	litres	6.1	
Final drive	litres	WT	
Cooling system	litres	6.0	
Fuel tank	litres	55	

Notes and Illustrations



1834 cm³



1834 cm³