

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemFourtrak 2.21992 to 1993

Type		4Y OHV 67kW
Capacity (cm³) / number of cylinders		2237 / 4
Compression ratio / pressure	bar	8.8 / ≥8.8
Oil pressure	bar	[2.6 to 4.9]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	80 to 84
Radiator cap pressure	bar	0.75 to 1.05

Fuel systemFourtrak 2.21992 to 1993

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	2600±200
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Aisan
Type / ref		2V
Main jet / needle		104, 170
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	91[E 95 RON]

Ignition systemFourtrak 2.21992 to 1993

Type		Electronic
Ignition coil		—
Primary resistance	ohms	1.2 to 1.5
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Toyo Denso
Points gap (air gap)	mm	[0.20 to 0.40]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	4±2 BTDC @ 700±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1400
	° Crankshaft @ rpm	10 @ 2400
	° Crankshaft @ rpm	22 @ 4800
Vacuum range check	mbar	160 to 413
Maximum vacuum advance	° Crankshaft	19
Spark plugs		NGK/Champion
Type		BPR5EY / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemFourtrak 2.21992 to 1993

Battery	V / CC / RC	12 / 40Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / 40 / 3000
Starter motor current / voltage - cranking	A / V	90 / 11.5 (no load)
- locked	A / V	—

Running gearFourtrak 2.21992 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	215x15: 255/70x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.4 / 1.4 ¹

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±3.0
Camber		+1°±1°
Castor		+1°30'±30'
King pin inclination		+9°30'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settingsFourtrak 2.21992 to 1993

Cylinder head - stage 1	Nm	12mm bolt: 19
- stage 2	Nm	14mm bolt: 88
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	49
Main bearings	Nm	78
Clutch cover	Nm	19
Flywheel [driveplate]	Nm	83
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	88 to 118
Spark plugs	Nm	18

CapacitiesFourtrak 2.21992 to 1993

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.8 ¹
Automatic transmission - refill	litres	—
Final drive	litres	1.5
Cooling system	litres	7.9 ³
Fuel tank	litres	60

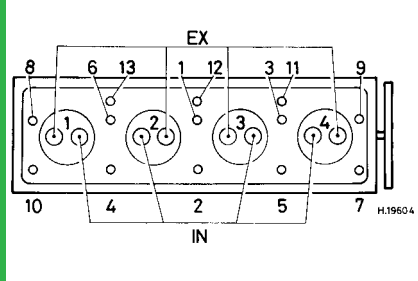
Notes and Illustrations

¹255/70x15: 1.8 / 1.8

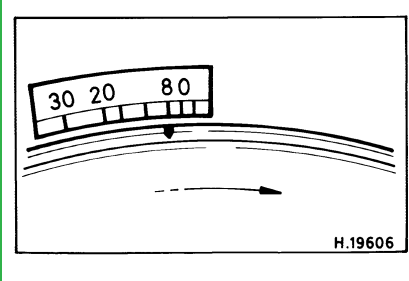
²Transfer box: 1.3

³With rear heater: 9.0

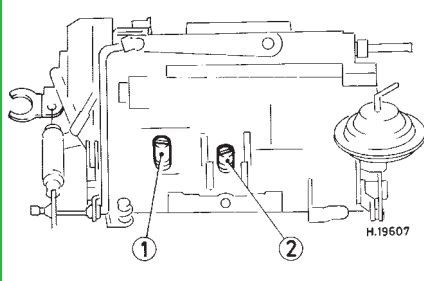
1: Idle speed 2: CO / Mixture



2237 cm³



2237 cm³



Aisan 2V, 2237 cm³