

Technical data on the car

Car Make Suzuki
Car model Wagon R+ / 4WD
Year 1998-2000
Engine K12A

Date: 10-02-2006

Owner _____

Registration No. _____

VIN _____

1. Reg. Date _____

Technical item	Data	Footnote	Picture
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Motor

Engine/ Type	K12A/ R4 DOHC 16V		
Capacity/ (bore/ stroke)	1171 ccm (71,0/ 74,0)		
Compression ratio (RON)	9,3: 1 (95 unleaded)		
Max. output kW (din hp)/ rpm	51 (69)/ 6000		
Max. Torque NM/ rpm	95/ 3250		
Enginocode location	See picture		2089
Vehicle Identification Number location	See picture		2089
Valve clearance, inlet (cold/ hot)	0,18 - 0,23 cold/ 0,21 - 0,27 warm		1116
Valve clearance, exhaust(cold/ hot)	0,18 - 0,23 cold/ 0,20 - 0,26 warm		1116
Compression pressure, bar	9,0 - 12,5 (Max. difference 1,0)		
Oil pressure/ rpm, bar	3,3 - 4,3/ 4000		
Radiatorcap, bar/ Thermostat °C	1,1/ 82° C	Electric fan. Connection at 97° C. Disconnection at 94° C.	
Clutch freeplay, mm	15 - 20 By pedal		
Timingbelt: Renewal (inspection)	(Chain)		3616
Noise measurement, dB(A) at rpm			

Engine management system

Engine management system	Suzuki SMPI		
Sparkplug	NGK DCPR 7E		
Electrode gap, mm	0,8 - 0,9		
Firing order	1 - 3 - 4 - 2 (Cyl. 1 at timing gear)		
Ignition timing (BTDC)	5° ± 1°/ Idle speed	Pins D and E in test connector connected.	6003
Diagnostic connector	By battery/ Under dashboard left side		
Timing mark location	Belt pulley		
Fuel pressure, w/ wo vacuum, bar	1,7 - 2,3 tomg./ (2,2 - 3,0/ w/ engine t		
Holding pressure, bar	Min. 1,6 after 1 minut		
Injector resistance, Ohm	7,8 - 9,5		
Min. idle manifold vacuum, mbar	590		
Coolant temp.sensor 20°/ 80°C	2,28 - 2,61 kohm/ 0,30 - 0,32 kohm		
Intake air temp.sensor 20°/ 80°C	2,00 - 3,00 kohm/ 0,25 - 0,40 kohm		
TPS voltage, volt	Closed 0,0 - 1,0 (fully open >4,0)		
TPS resistance, kohm	Closed 0,25 - 0,85 (Fully open 2,6-6,2)		
Idle speed, rpm	800 ± 50 (Not adjustable)		
HC idling, ppm (CO?)	Max. 100 ppm (Min. 14,5%)		
O2 %, idling	0,1 - 0,5		
Lambda	1,00 ± 0,03		

Electrical system

ELECTRICAL SYSTEM - Battery	12 V 28 Ah		
Starter motor current (cranking), A	53 A/ 11,5 V/ 6000 rpm	Starter with reduction gear: 90A / 11V / 2800 rpm.	
Voltagerelay, Volt at/ amp.	13,6 - 14,8/		
DIN 72 552			30000
Alternator max, A	60/ 70		

Wheel alignment

Technical item	Data	Footnote	Picture
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Wheel alignment

Wheel alignment - load	Unloaded		
Toe-in, mm	0 ± 1,0		
Toe-in, °	0° ± 10'		
Camber°/ max. Difference on R and L	0° ± 1°/ (Not adjustable)		
Caster°/ max. Difference on R and L	+ 3° 20' ± 1°/ (Not adjustable)		
King-pin°	11° 50' ± 3°		
Toe-out on turns	38°/ 32°		
Tyre size	165/ 65 R 13		
Tyre pressure, front/ rear, bar	See left B - doorpost		
Freeplay in suspension parts	Factory data		8078
Wheel offset, mm	45		

Tightening torques

Cylinderhead bolts, stage 1, Nm	30 oiled		33
Cylinderhead bolts, stage 2, Nm	48		
Cylinderhead bolts, stage 3, Nm	Loosen		
Cylinderhead bolts, stage 4, Nm	48		
Cylinderhead bolts, stage 5, Nm	60 (No retightening)		
Main bearings, Nm	58 (Small 24) oiled		
Connection rod bearings, Nm	33 oiled		
Flywheel, Nm	42		
Crankshaft pul./ vibration damp. Nm	115		
Camshaft -pulley/ -bearings, Nm	/ 11		
Sparkplugs, Nm	15		
Wheel nuts/ bolts, Nm	85		
Wheel hub, Front/ Rear, Nm	175 new/ 100		

Brakes

Front, min. thickness (new)	15,0 mm (17,0 mm)		
Rear, min. thickness (new)	182,0 mm (180,0 mm)		

Capacities

Engine oil/ - incl. filter, liter	3,2 / 3,4 (API. SE-SJ, SAE 10W40)		
Manual transmission, liter	2,4 (API. GL-4, SAE 75W/ 90)	Type 2: 2,7 (mellemgearbox 0,5).	5039
Automatic transmission, liter	3,5 (Total 4,9) (ATF Dexron III)		5039
Final drive, liter	1,2 (API. GL5 SAE 75W/ 80)		
Cooling system, liter	3,6		
AC fluid, type/ gram	R134a/ 500 - 600		

Remarks

Order No.: _____

Mechanic _____