

Technical data on the car

Car Make Suzuki
Car model Wagon R+
Year 2000-2005
Engine B13BB

Date: 10-02-2006

Owner _____

Registration No. _____

VIN _____

1. Reg. Date _____

Technical item	Data	Footnote	Picture
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Motor

Engine/ Type	B13BB/ R4 OHC 16V		
Capacity/ (bore/ stroke)	1298 ccm (74,0/ 75,5)		
Compression ratio (RON)	9,5: 1 (95 unleaded)		
Max. output kW (din hp)/ rpm	56 (76)/ 5500		
Max. Torque NM/ rpm	115/ 4250		
Enginecode location	See picture		2089
Vehicle Identification Number location	See picture		2089
Valve clearance, inlet (cold/ hot)	0,13 - 0,17 cold/ 0,17 - 0,21 warm		1161
Valve clearance, exhaust(cold/ hot)	0,23 - 0,27 cold/ 0,27 - 0,31 warm		1161
Compression pressure, bar	11,0 - 14,0 (Max. difference 1,0)		
Oil pressure/ rpm, bar	3,6 - 4,4/ 4000		
Radiatorcap, bar/ Thermostat °C	1,1/ 88° C	Electric fan. Connection at 97,5° C. Dis connection at 92,5° C.	
Clutch freeplay, mm	15,0 - 20,0 By pedal		
Timingbelt: Renewal (inspection)	100.000 km		3160
Noise measurement, dB(A) at rpm			

Engine management system

Engine management system	Suzuki SMPI		
Sparkplug	NGK BKR 6E - 11/ Denso K 20 PR - U11		
Electrode gap, mm	1,0 - 1,1		
Firing order	1 - 3 - 4 - 2 (Cyl. 1 at timing gear)		
Ignition timing (BTDC)	5° ± 3°/ Idle speed	Pins D and E in test connector connecte d. Location: Left side in engine room by firewall.	6003
Diagnostic connector	Under steering column		
Timing mark location	Belt pulley		
Primary/ Secondary resistance	/ 7,6 - 10,2 kohm at 20° C		
Fuel pressure, w/ wo vaccum, bar	/ 2,7 - 3,1		
Holding pressure, bar	Min. 2,5 after 1 minute		
Injector resistance, Ohm	12,0 - 13,0		
Min. idle manifold vacuum, mbar	590		
Coolant temp.sensor 20°/ 80°C	2,30 - 2,60 kohm/ 0,30 - 0,32 kohm		
Intake air temp.sensor 20°/ 80°C	2,210 - 2,690 kohm/ 0,322 kohm		
TPS voltage, volt	Closed 0,2 - 1,0 (Fully open 2,8 - 4,8)		
TPS resistance, kohm	Pin 1 and 3 = 100 ohm - 20 kohm		
Idle speed, rpm	700 ± 50 (Aut. 750 ± 50)		
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 36/ 44 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.	14,4 - 15,0 V/		
DIN 72 552			30000

Technical item	Data	Footnote	Picture
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Electrical system

Alternator max, A	70		
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Wheel alignment

Wheel alignment - load	Unloaded		
Toe-in, mm	? 1,8 ± 0,6		
Toe-in, °	? 0° 16' ± 5'		
Camber°/ max. Difference on R and L	? 0° 20' ± 1°/ (Not adjustable)		
Caster°/ max. Difference on R and L	+ 3° 40' ± 1°/ (Not adjustable)		
King-pin°	11° 50' ± 1°		
Toe-out on turns	35° ± 3°/ 31° ± 3°		
Tyre size	165/ 60 R 14 (155/ 65 R 14)		
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	35 oiled		33
Cylinderhead bolts, stage 2, Nm	55		
Cylinderhead bolts, stage 3, Nm	Loosen		
Cylinderhead bolts, stage 4, Nm	35		
Cylinderhead bolts, stage 5, Nm	68 (No retightening)		
Main bearings, Nm	54 oiled		
Connection rod bearings, Nm	35 oiled		
Flywheel, Nm	76		
Crankshaft pul./ vibration damp. Nm	16/ 130		
Camshaft -pulley/ -bearings, Nm	60 Nm/ 11 Nm		
Timingbelt tensioner, Nm	22 (Fittings 11 Nm)		
Sparkplugs, Nm	28		
Wheel nuts/ bolts, Nm	85		
Wheel hub, Front/ Rear, Nm	175 new/ 175 new		

Brakes

Front, min. thickness (new)	10,0 mm (12,0 mm)		
Rear, min. thickness (new)	182,0 mm (180,0 mm)		
Min. Brake lining thickness, front	2,0 mm		
Min. Brake lining thickness, rear	1,0 mm		

Capacities

Engine oil/ - incl. filter, liter	3,1/ 3,3 (API. SE-SJ, SAE 10W40)		
Manual transmission, liter	2,2 (API. GL-4/ 5 SAE 75W90)		5166
Automatic transmission, liter	4,3 (Total 5,1) (ATF Dexron III)		5166
Cooling system, liter	4,4 (Aut. 4,5)		
AC fluid, type/ gram	R134a/ 475 ± 25		
AC oil, type/ cm?	RS 20/ 120		

Remarks

Order No.: _____

Mechanic _____