

Datsun Sports Technical Data 1967 SP311 Specifications

Just about every technical specification you will ever need for the 1967 Datsun Fairlady 1600 Sports.

BODY

Vehicle Length - 3955 mm (155.7in.)
Vehicle Width - 1495 mm (58.9in.)
Vehicle Height - 1300 mm (51.57in.)
Interior Length - 750 mm (29.52in.)
Interior Width - 1275 mm (50.2in.)
Interior Height - 990 mm (39in.)
Front Tread - 1275 mm (50.2in.)
Rear Tread - 1200 mm (47.24in.)
Wheel Base - 2280mm (89.8in.)
Min. Clearance - 145 mm (5.7in.)
Floor Height - 313 mm (12.3in.)
Overhang to Front End - 620 mm (24.4in.)
Overhang to Rear End - 885 mm (34.84in.)
Wheel size - 4 1/2 J x 14 inch
Tyre Size - 5.60-S14-4PR
Vehicle Weight - 900 kg (1984lb.)
Height of Centre of Gravity - 470mm (18.5in.)
Seating Capacity - 2 Persons
Maximum Speed - 170 km/h (106 mph)
Grade Ability - $0.497 = \sin\theta$
Min. Turning Radius - 4.9 m (16.08 ft.)

ENGINE

Model - R (also sometimes referred to in Nissan publications as the H16)
Manufacturer - Nissan
Classification - Gasoline
Construction - Cast Iron Block and Cast Alloy Head
Cooling system - Water forced circulation
No. of cyl. and arrangement - 4 in line
Cycle - 4
No. of Main Bearings - 5 (#R-40001 onwards)
Combustion chamber - Wedge type
Valve arrangement - Overhead
Bore x Stroke - 87.2 x 66.8mm (3.433 x 2.630in.)
Displacement - 1.595 liter (97.32 cu. in.)
Compression ratio - 9.0 to 1
Comp. pressure - 12.7kg/cm² @ 320rpm (180.6 lb in²)
Max. power - 96bhp @ 6000 rpm
Max. torque - 14.3m-km @ 4000 (103 ft. lb. @ 4000)
Engine idle speed - 600 rpm
Length x Width x Height - 635 x 650 x 623mm
Weight - 155 kg (341.7 lb.)
Firing order - 1-3-4-2
Piston material - LO-EX
Number of rings - 2 compression, 1 oil

Valve timing - intake open 20deg. BTDC
- intake close 56deg. ATDC
- exhaust open 58deg. BTDC
- exhaust close 18deg. ATDC

Valve clearance - intake 0.43mm (0.0169in.)
- exhaust 0.43mm (0.0169in.)

Valve head diameter - intake - 42.1mm (1.66in.)
- exhaust - 32.1mm (1.26in.)

Valve stem diameter - intake & exhaust
- 8.7mm (0.343in.)

Valve stem length - intake & exhaust
- 107.9mm (4.25in.)

Valve lift - 8.5mm (0.323in.)

Valve tappet diameter - 12.7mm (0.500in.)

Valve tappet to tappet bore clearance
- 0.016-0.052mm (0.0006-0.002in.)

Valve spring free length - outer - 49.0mm (1.93in.)
- inner - 50.0mm (1.97in.)

Valve spring pressured length (valve open)
- outer - 30.4mm/61.1kg (1.19in./134.4lb.)
- inner - 28.7mm/21.3kg (1.13in./46.9lb.)

Valve spring assembled height (valve closed)
- outer - 39.0mm/30.0kg (1.54in./66lb.)
- inner - 36.9mm/13.1kg (1.45in./28.8lb.)

Valve spring effective turns - outer - 5
- inner - 6.5

Valve spring wire diameter - outer - 4.267mm (0.1822in.)
- inner - 2.8mm (0.11in.)

Valve spring coil outer diameter
- outer - 33.734mm (1.328in.)
- inner - 23.95mm (0.943in.)

Valve guide length - intake - 48mm (1.89in.)
- exhaust - 52.5mm (2.067in.)

Valve guide height from head surface - 14.8mm (0.58in.)

Valve guide bore diameter
- 8.685-8.7mm (0.3419-0.3425in.)

Valve guide outer diameter
- 14.276-14.291mm (0.562-0.5626in.)

Valve guide interference fit
- 0.022-0.05mm (0.0009-0.002in.)

Valve guide to stem clearance
- intake - 0.015-0.043mm (0.0006-0.0017in.)
- exhaust - 0.045-0.073mm (0.0018-0.0029in.)

Valve seat width - intake & exhaust
- 1.7-1.9mm (0.067-0.075in.)

Valve seat angle - intake & exhaust - 45deg.

Valve face angle - intake & exhaust - 45deg.30'

Valve seat interference fit
- intake - 0.081-0.0113mm (0.0032-0.0044in.)
- exhaust - 0.064-0.096mm (0.0025-0.0038in.)

Push rod length - 199.0mm (7.83in.)

Push rod stem diameter - 7.15mm (0.006in.)

Rocker shaft diameter
- 19.97-20.0mm (0.786-0.787in.)

Rocker arm bore diameter
- 20.02-20.04mm (0.7881-0.789in.)

Rocker arm to rocker shaft clearance
- 0.02-0.07mm (0.0008-0.0028in.)

Lever ratio - 1.461

Camshaft end play - 0.05-0.28mm (0.002-0.011in.)

Lever ratio - 1.461

Camshaft end play - 0.05-0.28mm (0.002-0.011in.)

Camshaft robe lift - 6.15mm (0.242in.)

Camshaft journal diameter
- 1st - 45.434-45.447mm (1.7887-1.7892in.)
- 2nd - 43.897-43.91mm (1.7282-1.7287in.)
- 3rd - 41.218-41.231mm (1.6228-1.6233in.)

Shaft maximum centre misalignment
- <0.01mm (<0.0004in.)

Camshaft bearing inner diameter
- 1st - 45.472-45.485mm (1.7902-1.7907in.)
- 2nd - 43.948-43.961mm (1.7302-1.7307in.)
- 3rd - 43.948-43.961mm (1.7302-1.7307in.)

Camshaft journal to bearing clearance
- 1st - 0.025-0.051mm (0.001-0.002in.)
- 2nd - 0.038-0.064mm (0.0015-0.0025in.)
- 3rd - 0.025-0.051mm (0.001-0.002in.)

Connecting rod centre distance - 152.45mm (6.002in.)

Connecting rod bearing length - 29.0mm (1.14in.)

Connecting rod bearing thickness
- 1.498-1.506mm (0.0589-0.0593in.)

Connecting rod big end, end play
- 0.2-0.3mm (0.008-0.012in.)

Connecting rod bearing clearance
- 0.014-0.056mm (0.0006-0.0022in.)

Connecting rod bend
- <0.03mm (<0.001in.) in any 100mm (3.937in.)

Crankshaft journal diameter
- 59.942-59.955mm (2.36-2.3604in.)

Crankshaft journal out-of-round
- <0.005mm (<0.0002in.)

Crankshaft free end play
- 0.02-0.15mm (0.0008-0.006in.)

Wear limit of free end play - 0.3mm (0.01in.)

Crank pin diameter
- 51.961-51.974mm (2.0457-2.0462in.)

Crank pin out-of-round - <0.005 (<0.0002in.)

Main bearing thickness
- 1.827-1.835mm (0.072-0.0722in.)

Main bearing clearance
- 0.02-0.62mm (0.0008-0.0024in.)

Maximum limit of main bearing clearance
- 0.12mm (0.0047in.)

Crankshaft maximum centre misalignment
- <0.03mm (<0.001in.)

Piston diameter

- standard - 87.165-87.215mm (3.4317-3.4337in.)
- oversize 1 - 87.185-87.235mm (3.4325-3.4344in.)
- oversize 2 - 87.415-87.465mm (3.4415-3.4435in.)
- oversize 3 - 87.665-87.715mm (3.4514-3.4533in.)
- oversize 4 - 87.915-87.965mm (3.4612-3.4632in.)
- oversize 5 - 88.165-88.215mm (3.4711-3.4730in.)
- oversize 6 - 88.665-88.715mm (3.4907-3.4927in.)

Fitting system of piston pin to connecting rod - loose fit

Ring groove width - oil ring - 4.0mm (0.16in.)

- top compression ring - 2.0mm (0.08in.)
- 2nd compression ring - 2.5mm (0.10in.)

Ring groove depth - 4.350-4.475mm (0.1713-0.1762in.)

Piston ellipse difference - 0.28-0.31mm (0.011-0.012in.)

Piston to bore clearance

- 0.025-0.045mm (0.0010-0.0018in.)

Piston pin diameter

- 21.987-22.0mm (0.8656-0.8661in.)

Piston pin length - 72.5-72.6mm (2.8543-2.8583in.)

Piston pin to piston clearance

- 0.004-0.006mm (0.00015-0.00023in.) at 40°C

Piston pin to connecting rod bushing clearance

- tight - 0.003mm (0.0001in.)
- loose - 0.023mm (0.0009in.)

Piston ring height

- top & 2nd compression ring - 2.5mm (0.0984in.)
- oil ring - 4.0mm (0.1575in.)

Ring side clearance - top compression ring

- 0.04-0.073mm (0.0016-0.0029in.)
- 2nd compression ring

- 0.03-0.063mm (0.0012-0.0025in.)

- oil ring

- 0.025-0.063mm (0.001-0.0025in.)

Ring gap width - top compression ring

- 0.25-0.4mm (0.01-0.016in.)

- 2nd compression ring

- 0.15-0.3mm (0.006-0.012in.)

- oil ring

- 0.15-0.3mm (0.006-0.012in.)

Cylinder bore out-of-round tolerance

- <0.02mm (<0.0008in.)

Cylinder bore chamfer - 45deg. x 74.0mm (2.91in.)

Cylinder bore taper - 0.02mm (0.0008in.)

Cylinder head surface flatness - <0.1mm (<0.004in.)

Manifold vacuum - height of mercury at 650rpm

- 410 mm/Hg

IGNITION SYSTEM

Starting method - magnetic starting system

Ignition method - battery coil type

Ignition timing - 16deg. BTDC at 600rpm

Firing order - 1 - 3 - 4 - 2

Ignition coil - Hitachi C6R-50 or
 - Hanshin HU-13Y
 Coil primary voltage - 12 volts
 Coil required current - engine stopped - 3.5 amp.
 - engine running - 2.15 amp.
 Coil resistance - primary 1.4 ohm. - secondary 14 K/ohm.
 Resistor - 1.6 ohm - Hitachi 5650R-1500 or
 - Hanshin RA-16
 Distributor - Most Models - Hitachi D407-51
 - Very Early Models - Hitachi D407-02
 - Some Models - Mitsubishi N10
 Ignition timing advance system - automatic advance
 via centrifugal weights and vacuum timing control
 Advance starting speed - 475 rpm
 Rotating direction - left
 Points gap - 0.45-0.55mm (0.0177-0.0217in.)
 Dwell angle - Hitachi - 49-55 deg.
 - Mitsubishi - 56-61 deg.
 Contact arm spring tension - 0.5-0.65 kg (1.1-1.43lb.)
 Condenser capacity - 0.20-0.24 uF
 Spark plug - Nihon Tokushu Togyo (NGK) B-6E
 - Hitachi L-45
 Spark plug size - screw diameter x reach
 - 14 x 19mm (0.551 x 0.75 in.)
 Spark plug gap - 0.7 - 0.8 mm (0.027 - 0.031 in.)
 Spark plug torque - 1.5-2.0kg/m (11.0-15.0 ft/lb.)

FUEL SYSTEM

Carburetor - Hitachi HJB38W-3-FSF
 HJB38W-3-RSF
 Type - variable venturi, side draught (SU style)
 Throttle bore - 38 mm (1.496 in.)
 Inlet diameter - 35.8mm (1.41in.)
 Outlet diameter - 38mm (1.496in.)
 Venturi - fixed side width - 13.0mm (0.51in.)
 - moving side - max. lift - 29.0mm (1.14in.)
 - min. lift - 0.3mm (0.012in.)
 - piston diameter - 67mm (2.64in.)
 - venturi diameter - 37.6mm (1.48in.)
 - suction hole - .5-1.3mm (0.2-0.51in.)
 Float level - 23mm (0.906in.)
 Jet needle - M-39 type
 Fuel pressure - 0.3kg/cm² (4.26 lb/in.²)
 Nozzle - jet diameter - 2.34mm (0.092in.)
 - passway diameter - 4mm (0.16in.)
 - idle return number - 2
 Throttle valve closing angle - 14 deg.
 Vacuum hole diameter - 1.5mm (0.06in.)
 Damper oil - hole diameter - 9mm (0.35in.)
 - plunger diameter - 8.8mm (0.346in.)
 Damper oil recommended viscosity - SAE 20
 Suction spring - #23 type

Suction spring - setting load - 48kg (105.6lb.)
 - maximum load - 105kg (231lb.)
 Starting throttle opening angle - 6 deg.
 Starting throttle nozzle stroke 12mm (0.47in.)
 Air cleaner - paper type, Tsuchiya brand
 Fuel pump - diaphragm type
 Diaphragm spring free length
 - Showa Seiki - 52-54mm (2.05-2.13in.)
 - Kyosan Denki - 57-59mm (2.24-2.32in.)
 Diaphragm spring pressured length
 - Showa Seiki - 22mm/3.9-4.3kg (0.87in./8.58-9.46lb.)
 - Kyosan Denki - 14mm/4.2-4.6kg (0.71in./9.24-10.12lb.)
 Rocker arm spring free length
 - Showa Seiki - 24-24.5mm (0.94-0.96in.)
 - Kyosan Denki - 31mm (1.22in.)
 Discharge pressure
 - Showa Seiki - <220mm/Hg (8.66in.Hg)
 - Kyosan Denki - <220mm/Hg (8.66in.Hg)
 Suction vacuum - Showa Seiki - >300mm/Hg (11.8in./Hg)
 - Kyosan Denki - >400mm/Hg (15.75in./Hg)
 Fuel tank capacity - 43 liter (11.36 US gal.)

LUBRICATING SYSTEM

Method - forced pressure type
 Oil pump type - gear type
 Oil filter - full flow type
 Oil pan capacity - 4.1 liter (1.083 US gal.)
 Oil pressure measured while hot at 2000rpm
 - 3.5-4.0 kg/cm² (49.7-56.8 lb/in²)
 Oil pressure measured while hot at 6500rpm
 - 1.0kg/cm² (14.19lb/in.²)
 Relief valve spring free length - 41.5mm (1.634in.)
 Relief valve spring pressured length
 - 30.3mm/2.24kg (1.193in./4.93lb.)
 Opening pressure - 3.5kg/cm² (49.67lb/in.²)
 Gear side clearance - 0.04-0.11mm (0.002-0.0043in.)
 Gear backlash - 0.3-0.4mm (0.01-0.02in.)

COOLING SYSTEM

System type - water cooling closed type
 Radiator - corrugated fin and tube type
 Type - Nihon Radiator
 System capacity - 8 liter (2.11 US gal.)
 Water pump - centrifugal type
 Pump vane to body clearance
 - 0.6-0.8mm (0.024-0.031in.)
 Cooling fan diameter - 320mm (12.6in.)
 Fan belt deflection - 15-20mm (0.59-0.79in.)
 Thermostat - pellet type
 Thermostat opening temperature
 - 76.5 deg. C (169.7 deg. F)
 Thermostat valve lift
 - 8mm at 95 deg. C (0.31in. at 203 deg. F)

BATTERY

Type - 12 volt , 40 AH
Battery manufacturers - Yuasa , Furukawa , GS .
Polarity - negative earth

ALTERNATOR

Type - Mitsubishi AC300/12xR
Generating method - alternator
Voltage - 12 volt
Capacity - 30 amp.
Pulley ratio - 1.73
Shaft bend limit - 0.1mm (0.004in.)
Brush height - 13.0mm (0.512in.)
Brush limit height - 7.0mm (0.276in.)

VOLTAGE REGULATOR

Type - Mitsubishi Prestolite RL-2B
Load adjust voltage - 13.5-14.5 volts
Air gap - 0.8-1.2mm (0.315-0.472in.)
Back gap - 0.8-1.2mm (0.315-0.472in.)
Point gap - 0.3-0.4mm (0.118-0.157in.)

STARTER

Type - Hitachi S114-91
- Mitsubishi MP1.0/1.2YR
Power - 12 volt 1.4 hp
Stall torque - >1.0kg/m (>7.2 ft/lb.)
Pinion gear - number of teeth - 9
Commutator diameter - 33mm (1.3in.)
Commutator diameter wear limit - 2mm (0.08in.)
Brush length - 14mm (0.55in.)
Brush length wear limit - 4.5mm (0.18in.)
Shaft to bearing clearance
- 0.03-0.1mm (0.0012-0.0039in.)
Amendment limit - 0.2mm (0.008in.)

CLUTCH

Type - single dry disc hydraulic operation
Number of plates - 2 (facing)
Clutch Material - Textar
Clutch spring type - diaphragm spring
Number of springs - 1
Number of torsion springs - 6
Outer diameter x inner diameter x thickness
- 200 x 130 x 3.5 mm (7.87 x 5.12 x 0.138 in.)
Total friction area - 363mm (56.12in.)
Clutch pedal free travel - 10-20mm (0.39-0.79in.)
Clutch pedal height - 157mm (6.18in.)
Disc run out - 0.5mm (0.0197in.)
Release lever or diaphragm spring height from flywheel
face - 43.5mm (1.71in.)
Release lever run out - 0.8mm (0.032in.)
Withdrawal lever play - 1.5-2.0mm (0.098-0.118in.)
Out of balance of clutch - 12.0mm (0.47in.)

Backlash at splined part
 - 0.08-0.12mm (0.003-0.005in.)

Disc assembly thickness
 - free - 0.08-0.12mm (0.003-0.005in.)
 - bending - 1.0-1.3mm (0.039-0.051in.)
 - compressed - 7.3-8.1mm (0.287-0.319in.)

TRANSMISSION

Model - F4C63L

Type - 4 forward, 1 reverse.

Synchromesh on 1st, 2nd, 3rd and 4th.

Synchro type - Porsche type servo synchro,
 made under license from Porsche

Operating method - floor type

Gearbox oil pan capacity - 2.2 liter (0.58 US gal.)

Ratios - 1st - 3.382

- 2nd - 2.013

- 3rd - 1.312

- 4th - 1.000

- reverse - 3.365

Number of teeth - main shaft - main drive gear - 22
 - 3rd gear - 27
 - 2nd gear - 30
 - low gear - 36
 - reverse gear - 39
 - counter shaft - counter driven gear - 31
 - 3rd gear - 29
 - 2nd gear - 21
 - low gear - 15
 - reverse gear - 14
 - reverse idler gear - 18
 - speedometer - drive gear - 5
 - driven gear - 17
 (16 for 4.111 final drive option)

Adjustments

- amendment limit of main shaft end play
 - 0.3mm (0.0118in.)
- counter shaft end play
 - 0.05-0.15mm (0.002-0.0059in.)
- main shaft end play
 - 0.08-0.29mm (0.0031-0.0114in.)
- amendment limit of counter shaft end play
 - 0.2mm (0.0079in.)
- reverse idler gear end play
 - 0.05-0.15mm (0.002-0.0059in.)
- amendment limit of reverse idler gear end play
 - 0.5mm (0.02in.)
- main drive adjust washers
 - 1.49-1.55mm (0.059-0.061in.)
 - 1.86-1.92mm (0.073-0.075in.)
- counter shaft adjust washers
 - 2.35-2.4mm (0.093-0.094in.)
 - 2.55-2.6mm (0.1-0.102in.)

- reverse idler gear adjust snap rings
 - 1.05-1.15mm (0.041-0.045in.)
 - 1.45-1.55mm (0.057-0.061in.)
- Backlash between gears - 1st, 2nd, 3rd, 4th & rev.
 - 0.05-0.1mm (0.002-0.004in.)
 - speedometer gear - 0.2mm (0.0079in.)

PROPELLER SHAFT

- Length x outer diameter x inner diameter
760 x 63 x 59.8 mm (29.921 x 2.48 x 2.354 in.)
- Universal joint - Spicer type
Universal joint journal outer diameter
- 14.8mm (0.58in.)
- Bearing race inner diameter - 18.8mm (0.74in.)
Number of needle roller bearing - 26
Needle bearing outer diameter - 2.0mm (0.079in.)
Joint size - 63H
- Adjustments
- sleeve yolk spline backlash
 - 0.014-0.079mm (0.0006-0.0031in.)
 - snap ring thickness for needle roller cap
 - 2.0mm (0.079in.)
 - spider thrust play
 - 0.02mm (0.0008in.)
 - propeller shaft run out
 - 0.6mm (0.024in.)
 - dynamic balance
 - 15gram/4000 rpm (0.529oz./4000 rpm)

FINAL DRIVE

- Type of gear - hypoid
Gear ratio - 3.889 (optional 4.111)
Speedometer gear - 16/5 (17/5)
Housing type - banjo
Differential gear oil capacity - 0.93 liter (0.25 US gal.)
Type and number of gears
 - straight bevel pinion - 2 of each
- Number of teeth - drive pinion - 9 (9)
 - ring gear - 35 (37)
 - pinion mate - 10 (10)
 - side gear - 18 (18)
- Adjustment
- preload for pinion bearing
 - 10-13kg/cm (8.7-11.3lb/in.)
 - pinion height - 61.0mm (2.4in.)
 - drive pinion bearing adjusting shims
 - 3.8-3.82mm (0.149-0.15in.)
 - drive pinion adjusting shims
 - 0.5, 0.25, 0.125, 0.075 & 0.05mm
 - (0.02, 0.01, 0.005, 0.003 & 0.002in.)
 - side gear to case clearance
 - 0.1-0.2mm (0.004-0.008in.)
 - amendment limit of side gear to case clearance
 - 0.3mm (0.012in.)

- side bearing adjusting shims
 - 0.5, 0.25, 0.125, 0.075 & 0.05mm
 - (0.02, 0.01, 0.005, 0.003 & 0.002in.)
- side gear thrust washer sizes
 - 0.76-0.81, 0.86-0.91, 0.96-1.01, 1.06-1.11 & 1.16-1.21mm
 - (5.49-5.86, 6.22-6.58, 6.94-7.3, 7.66-8.03 & 8.39-8.75in.)
- pinion mate thrust washer
 - 0.76-0.81mm (0.03-0.032in.)
- maximum run out of ring gear
 - <0.05mm (<0.002in.)
- backlash between side gear and pinion mate
 - 0.02-0.08mm (0.0008-0.0032in.)
- backlash between ring gear & pinion
 - 0.15-0.2mm (0.006-0.008in.)

Rear axle adjustment

- shaft end play - <0.51mm (<0.0020in.)
- adjusting shims - 0.075mm (0.0030in.)

STEERING SYSTEM

Type - cam and lever

Gear ratio - 14.8

Steering box oil capacity - 0.25 liter (0.07 US gal.)

Steering angle in - 36deg.16' - out - 28deg.20'

Steering wheel diameter - 400 mm (15.75 in.)

Number of turns lock to lock - 2.7

Turning force at steering column - 0.3-0.8kg (0.7-1.8lb.)

Adjustment

- steering wheel play
 - 25-30mm (0.98-1.18in.)
- backlash between worm and pin
 - <0.2mm (<0.008in.)
- axial play and radial play between nut and ball
 - 0.08mm (0.0031in.)
- worm bearing preload
 - 8-15kg/m (0.31-0.59lb/in.)
- worm bearing interference fit
 - <0.01mm (<0.0004in.)
- worm adjusting shim sizes
 - 0.762, 0.254, 0.127 & 0.05mm
 - (0.03, 0.01, 0.005 & 0.002in.)
- sector shaft shims
 - 1.45mm & 1.57mm (0.0571 & 0.0618)
- standard shim thickness - 2.5mm (0.10in.)
- shaft to bush clearance
 - 0.017-0.06mm (0.0007-0.0024in.)
- shaft adjusting shim
 - 3.2mm (0.13in.)
- off-set at centre of worm and pin
 - 4.7mm (0.19in.)

BRAKING SYSTEM

Front brakes - Sumitomo twin piston calipers made under license from Dunlop

Front brake pad dimensions

- 47.5 x 16.7 x 53.98 mm (1.87 x 0.66 x 2.125 in.)

Front brake total braking area - 102.6cm² (15.9 in.²)

Diameter of front disc - 284 mm (11.18 in.)

Front caliper inner diameter - 53.98mm (2.125in.)

Rear brakes - drum brakes with one leading and one trailing shoe

Rear brake shoe dimensions

- 40 x 4.5 x 215 mm (1.57 x 0.18 x 8.46 in.)

Rear brake total braking area - 351cm² (54.4 in.²)

Diameter of rear drum - 228.6 mm (9.0 in.)

Rear wheel cylinder inner diameter - 20.64mm (0.8in.)

Master cylinder - 19.05mm (0.75in.)

Adjustment

- rotor run out - <0.08mm (<0.003in.)
- drum out of round - <0.02mm (<0.0008in.)
- front pad wear limit - 5.3mm (0.21in.)
- rear shoe lining limit - 0.5-1mm (0.012-0.039in.)
- front pad to rotor clearance
 - 0.18-0.31mm (0.007-0.012in.)
- rear shoe to drum clearance - 0.25mm (0.01in.)
- brake pedal free travel - 10-15mm (0.39-0.59in.)
- brake pedal height - 167mm (6.57in.)

Wheel cylinder - rear 20.64mm (0.813in.)

Max. fluid pressure - 137 kg/cm²

Park brake - mechanical type on rear wheel

SUSPENSION

Front - independent coil spring

Front coil spring size - 12.7 x 87.5 x 290 mm - 6 turns

Coil spring wire diameter - 12.7mm (0.5in.)

Coil spring diameter - 87.5mm (3.44in.)

Coil spring free length - 290mm (11.42in.)

Spring constant - 9.5kg/mm (522.5lb/in.)

Front shock absorbers - telescopic double acting

Shock absorber damping force

- rebound - 190kg (418lb.)
- compression - 70kg (154lb.)

Stroke - 110mm (4.3in.)

Maximum length - 310mm (12.2in.)

Minimum length - 200mm (7.9in.)

Stabilizer - front - torsion bar type

Adjustments

- wheel bearing preload - <15.0kg/cm (<13.0lb/in.)
- wheel bearing axial play - <0.08mm (<0.003in.)
- camber adjusting shim sizes - 1mm & 2mm
(0.04in. & 0.08in.)

Rear - parallel semi elliptic leaf springs
Rear spring size
- 1200 x 60 x 6 - 2 (47.2 x 2.4 x 0.24 - 2)
5 - 2 (0.2 - 2)
Free camber - 66.5mm (2.62in.)
Laden camber - neg.6.0mm/185kg (neg.0.24in./407lb.)
Bush pin diameter - 12.0mm (0.47in.)
Leaf spring adjustment
- bush to pin clearance - <0.113mm (<0.0044in.)
Rear shock absorbers - telescopic double acting
Shock absorber damping force
- rebound - 120kg (264lb.)
- compression - 30kg (66lb.)
Stroke - 162mm (6.4in.)
Maximum length - 414mm (16.3in.)
Minimum length - 252mm (9.9in.)

WHEEL ALIGNMENT

These figures quoted are the factory specs for cars fitted with the original cross ply tires, the figures may not be appropriate for cars fitted with radial tires.

Caster (unladen) - 1°25'
Camber (unladen) - 1°30'
Toe-in (unladen) - 2.0-3.0mm (0.08-0.12in.)
Inclination angle of axle (unladen) - 6°35'
Turning angle of front wheel - inside - 36°
- outside - 28°20'

FRAME

Type - X member
Section - box type
Height x width x thickness
Upper 75 x 100 x 1.6 mm
Lower 25 x 100 x 2.3 mm
Weight - 495kg (1091.2lb.)