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# WHEEL AND TYRE

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E31AA--

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## SPECIFICATIONS

## GENERAL SPECIFICATIONS

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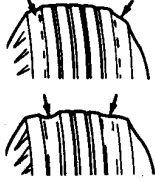
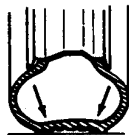
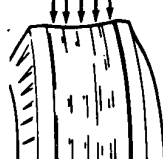
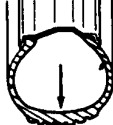


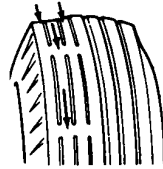
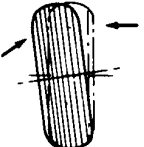
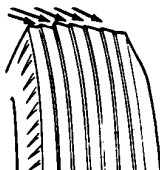
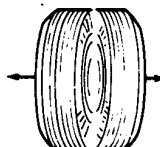
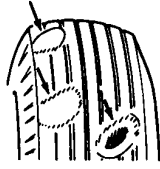
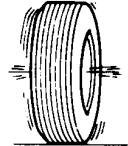
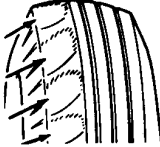

Item	2WD	4WD
Wheel (except spare wheel)		
Tyre size	185/70R14 88H	185/70R14 88H
Wheel type	Steel type	Steel type
Wheel size	14×5 1/2JJ	14×5 1/2JJ
Amount of wheel offset      mm (in.)	46 (1.8)	46 (1.8)
Spare wheel		
Tyre size	185/70R14 88H	T135/90D15
Wheel type	Steel type	Steel type
Wheel size	14×5 1/2JJ	15×4T
Amount of wheel offset      mm (in.)	46 (1.8)	46 (1.8)
Wheel (except spare wheel) [Option]		
Tyre size	185/70R14 88H	185/70R14 88H
Wheel type	Steel or aluminium type	Steel or aluminium type
Wheel size	14×5 1/2JJ	14×5 1/2JJ
Amount of wheel offset      mm (in.)	46 (1.8)	46 (1.8)
Spare wheel [Option]		
Tyre size	185/70R14 88H	185/70R14 88H
Wheel type	Steel type	Steel type
Wheel size	14×5 1/2JJ	14×5 1/2JJ
Amount of wheel offset      mm (in.)	46 (1.8)	46 (1.8)

SERVICE SPECIFICATIONS

E31CB-

Items	2WD	4WD
Standard value		
Type inflation pressure kPa (kg/cm <sup>2</sup> , psi)		
<SPACE RUNNER>		
Standard type		
Front	200 (2.0, 28.4)	210 (2.1, 29.9)
Rear	180 (1.8, 25.6)	190 (1.9, 27.0)
Compact spare tyre	–	420 (4.2, 59.7)
<SPACE WAGON>		
Standard type		
Up to 4 persons		
Front	220 (2.2, 31.3)	220 (2.2, 31.3)
Rear	200 (2.0, 28.4)	200 (2.0, 28.4)
Full laden		
Front	230 (2.3, 32.7)	230 (2.3, 32.7)
Rear	240 (2.4, 34.1)	240 (2.4, 34.1)
Compact spare tyre	–	420 (4.2, 59.7)
Wheel nut tightening torque		
Nm (kgm, ft.lbs.)	90–110 (9–11, 65–80)	90–110 (9–11, 65–80)
Limit		
Wheel runout		
Radial runout mm (in.)		
Steel wheel	1.2 (0.047) or less	1.2 (0.047) or less
Aluminum wheel	1.0 (0.039) or less	1.0 (0.039) or less
Lateral runout mm (in.)		
Steel wheel	1.2 (0.047) or less	1.2 (0.047) or less
Aluminum wheel	1.0 (0.039) or less	1.0 (0.039) or less
Tread depth of tyre	1.6 (0.06)	1.6 (0.06)

**TROUBLESHOOTING**

Symptom	Probable cause	Remedy	Reference page
Rapid wear at shoulders 	Under-inflation or lack of rotation 	Adjust the tyre pressure	Refer to P.31-3.
Rapid wear at centre 	Over-inflation or lack of rotation 		
Cracked treads 	Under-inflation 		
Wear on one side 	Excessive camber 	Inspect the camber	Refer to GROUP 33A – Service Adjustment Procedures.
Feathered edge 	Incorrect toe-in 	Adjust the toe-in	
Bald spots 	Unbalanced wheel 	Adjust the imbalanced wheels	–
Scalloped wear 	Lack of rotation of tyres or worn or out-of-alignment suspension 	Rotate the tyres inspect the front suspension alignment	Refer to GROUP 33A – Service Adjustment Procedures.

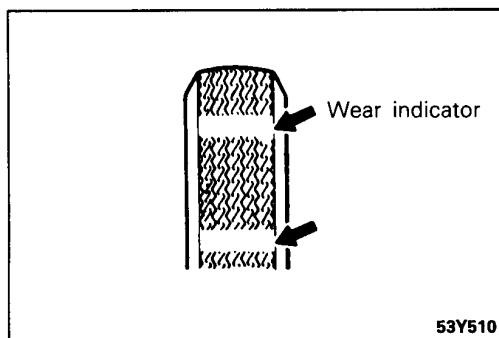
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## SERVICE ADJUSTMENT PROCEDURES

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### TYRE INFLATION PRESSURE CHECK

Check the inflation pressure of the tyres. If it is not within the standard value, make the necessary adjustment.



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### TYRE WEAR CHECK

E31FBAA

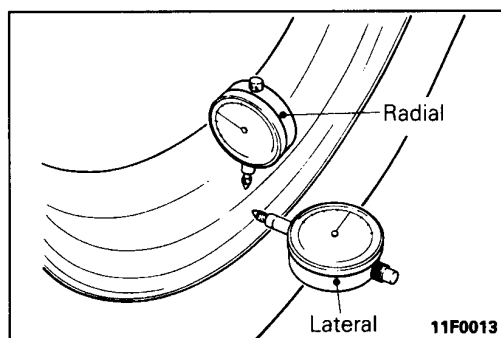
Measure the tread depth of tyres.

**Limit: 1.6 mm (0.06 in.)**

If the remaining tread depth is less the limit, replace the tyre.

**NOTE**

When the tread depth of tyres is reduced to 1.6 mm (0.06 in.) or less, wear indicators will appear.



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### WHEEL RUNOUT CHECK

E31FCAA

Jack up the vehicle so that the wheels are clear of the floor. While slowly turning the wheel, measure wheel runout with a dial indicator.

**Limit:**

**Radial runout**

<Steel wheel>	1.2 mm (0.047 in.) or less
<Aluminum wheel>	1.0 mm (0.039 in.) or less

**Lateral runout**

<Steel wheel>	1.2 mm (0.047 in.) or less
<Aluminum wheel>	1.0 mm (0.039 in.) or less

If wheel runout exceeds the limit, replace the wheel.