



WHEELS AND TIRES

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SPECIFICATIONS

GENERAL SPECIFICATIONS

Wheels

Tire size	215SR15
Wheel type	Steel type
Wheel size	6JJ x 15
Amount of wheel offset mm (in.)	22 (.87)

SERVICE SPECIFICATIONS

Service limits

Wheel runout mm (in.)	
Radial runout	1.2 (.05)
Tire runout mm (in.)	
Radial runout	3.0 (.12)
Tread depth of tires mm (in.)	1.6 (.06)

Repair limit

Wheel dynamic balance Ncm (in.lbs.)	3.5 (.3)
Tire inflation pressures kPa (psi)	

For vehicle unladen

Front	180 (26)
Rear	180 (26)

For vehicle laded

Front	180 (26)
Rear	240 (34)

TORQUE SPECIFICATION

Nm (ft.lbs.)

Hub nuts for wheels	100-120 (72-87)
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TROUBLESHOOTING



Symptom	Probable cause	Remedy
Unevenly worn tires Center of tread worn	Over-inflation	Adjust the tire pressure
Both sides of tread worn	Under-inflation	Adjust the tire pressure
Inside of tread worn	Insufficient toe-in Insufficient camber	Adjust
Outside of tread worn	Excessive toe-in Excessive camber	Adjust
Feathering	Excessive toe-in	Adjust
Cupping	Unbalanced wheels	Adjust
	Loose wheel bearings	Inspect for looseness and adjust the preload
	Loose ball joints	Inspect, and repair as necessary
	Malfunction of shock absorbers	Inspect, and repair as necessary
Road noise, body vibration	Over-inflation or under-inflation	Adjust the tire pressure
	Unbalanced wheels	Adjust
	Wheel runout	Replace the wheel(s)
	Abnormally worn tires	Replace the tires
	Unbalanced propeller shaft	Adjust or replace



SERVICE ADJUSTMENT PROCEDURES

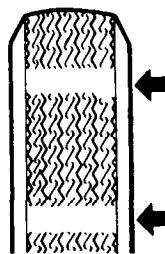
CHECKING OF TIRE WEAR

Measure the tread depth. If the remaining tread depth is less than the service limit, replace the tire.

Tread depth [Service limit] 1.6 mm (.06 in.)

NOTE

When the tread depth of tires is reduced to 1.6 mm (.06 in.) or less, wear indicators will appear.

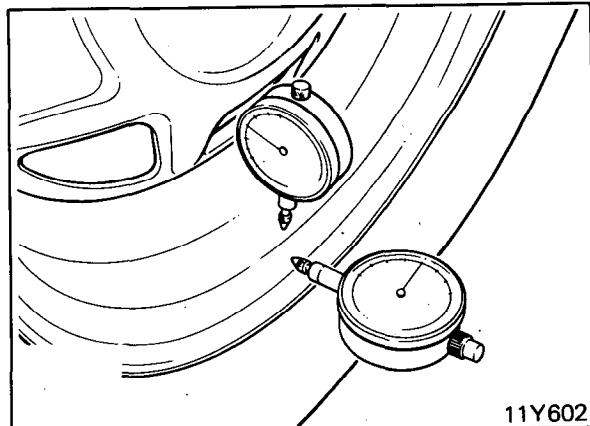


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CHECKING OF WHEEL RUNOUT

1. Jack up the vehicle and support with floor stands.
2. Measure wheel runout with a dial indicator. If the runout exceeds the service limit, replace the wheel.

Wheel runout [Service limit]
Radial 1.2 mm (.05 in.)

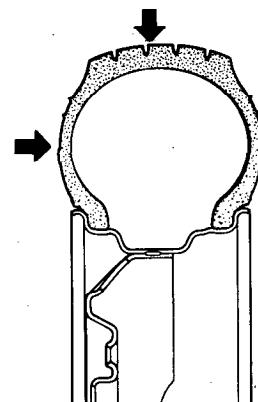


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CHECKING OF TIRE RUNOUT

Measure the radial.

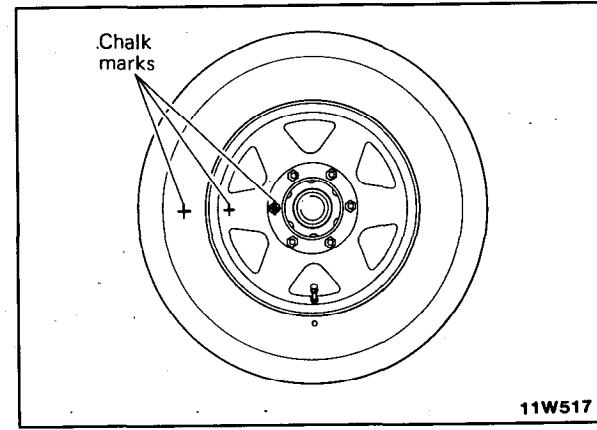
Tire runout [Service limit]
Radial 3.0 mm (.1 in.)



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Simple Method to Reduce Runout

1. Measure runout and make chalk marks on tire sidewall, wheel and nearest stud at point of maximum runout before removing the tire from the wheel.
2. Remove the tire from the wheel and remount the wheel on the drum or hub in the former position.
3. Check the radial and lateral wheel runout. They should not exceed the service limits.
4. If the point of greatest wheel runout is near the original chalk mark, remount the tire, so that the chalk mark is 180 degrees from the original mark. Recheck tire runout.



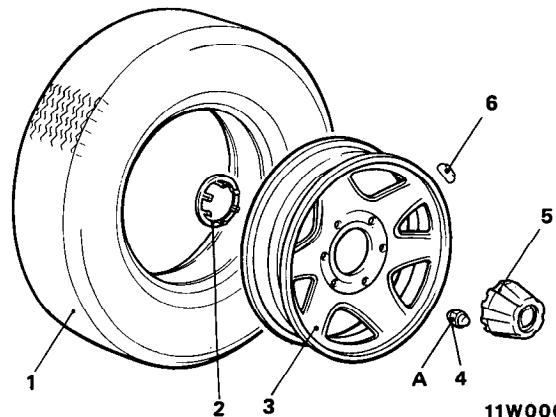
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COMPONENTS

1. Tire
2. Holder
3. Wheel
4. Hub nut
5. Center cap
6. Balance weight

Nm	ft.lbs.
A 100-120	72-87



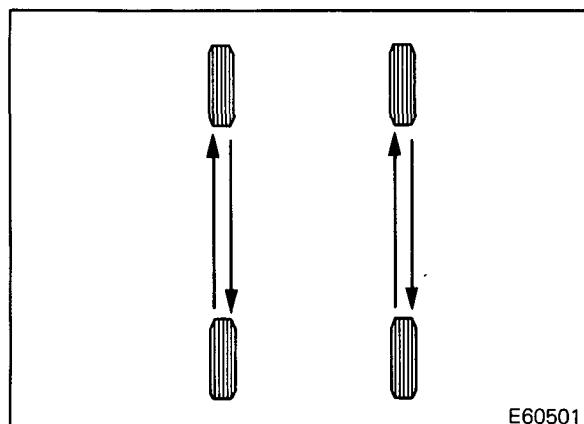
TIRE ROTATION

1. Rotate the tires in the pattern illustrated. (E60501)
2. Hand tighten the hub nuts, and then use a torque wrench to tighten them to specification.

Tightening torque 70-80 Nm (50-57 ft.lbs.)

NOTE

Do not use an impact wrench or apply oil to the wheel studs.

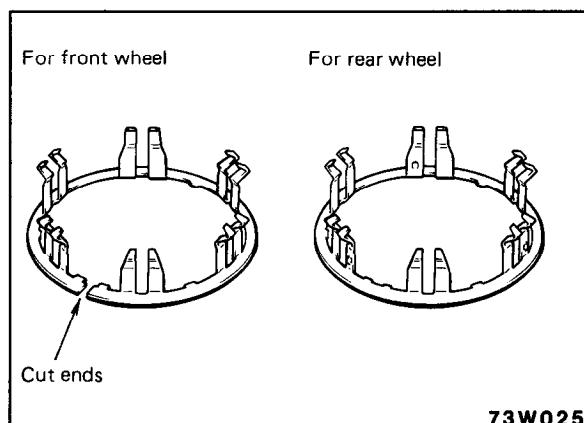


CENTER CAP

Installation

NOTE

The metal fittings which attach the center caps, are different on the front wheels from those on the rear.



Attaching Center Cap Metal Fittings to Front Wheels

Align any of the guides (three projections) inside the fitting with a bolt position, and then mount the fitting on the hub, being careful that the cut ends are not opened. (73W027)

Attaching Center Cap Metal Fittings to Rear Wheels

Align any of the guides (three projections) inside the fitting with the position of the wheel mounting hole (B) and mount the fitting to the wheel from the inside. (73W026)

