SERVICE MANUAL

Datsun

MODEL 510 SERIES

CHASSIS and BODY

SECTION WT

WHEEL & TIRE

WT

WHEEL AND TIRE

CONTENTS

INSPECTION AND ADJUSTMENT OF TIRE PRESSURE

1. Eliminate rust on the rim surface where the tire is fitted.
In the case that the rim is distorted, check it for lateral and radial run-out at the periphery in excess of 1.5 mm (0.591 in.), and correct and reshape it so that the run-out is within this limit.

2. Adjust tire pressure to the standard value, when the tire is cold or before starting.

Recommended tire inflation pressures;

Tire pressure	Normal conditions		High speed driving conditions	
kg/cm^2 (lb/in^2)	front	rear	front	rear
Sedan & Wagon	1.7 (24)	1.7 (24)	2.0 (28)	2.0 (28)

This tire pressure will increase as the tire temperature increase during continuous driving.

The use of overinflated tire will reduce riding comfort and result in excessive uneven wear and damage of tire, poor braking action, and steering instability.

The use of underinflated tire will also result in excessive and uneven wear and damaged of the tire, power loss of poor fuel economy and so forth.

3. After adjustment of tire pressure, check for air leakage from the valve cap on it.

4. After driving, examine tire treads for pebbles, broken glass or nails embedded. Remove if any.

CHANGING WHEELS

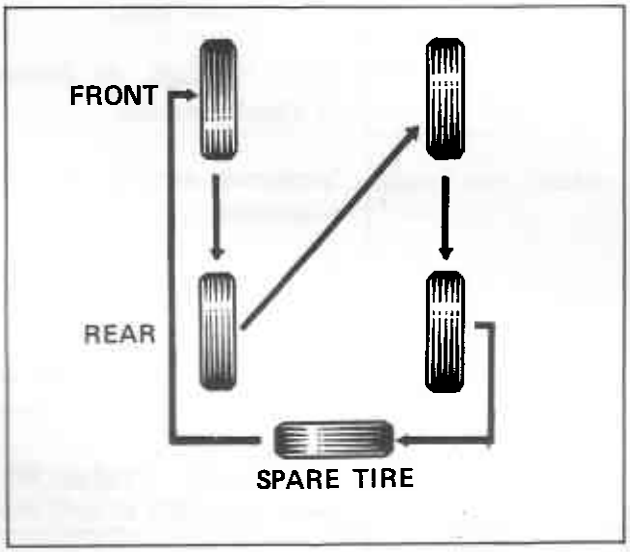

Fig. WT-1 Order of wheel changing

It is good practice for extension of tire life to interchange left and right wheels every 10,000 km (6,000 mile) by using all five wheels evenly including the spare as shown in Figure WT-1. The spare tire might rather deteriorate of not used, so it will be a good practice to use all five tires evenly.

Tighten wheel nuts to a torque of 8.0 to 9.0 kg-m (57.9 to 65.1 ft-lb).

After running 100 to 200 km (60 to 120 mile) retighten wheel nuts.

WHEEL BALANCE

Tire repairing and tire wear are apt to influence wheel balance. When the wheel is found to be unstable, or has been replaced, the dynamic balance of the wheel should be checked for. The static unbalance of the wheel should be kept within 165 gr-cm (2.3 in-oz), attaching not more than two balancing weight to each side of the road wheel.

TROUBLE DIAGNOSES AND CORRECTIONS

Troubles	Possible causes	Remedies
Wheel wobble	Incorrect tire pressure.	Check tire pressure and set them.
	Cracked tires or distorted wheel rims.	Repair or replace them.
	Wheels out of balance.	Check and balance the wheels.
	Loose wheel nuts.	Retighten them.
	Wear, damage, or excessive play of wheel bearings.	Check and tighten or replace them.
	Incorrect setting of front wheel alignment.	Check and adjust toe-in, camber and caster.
	Wear and damage of ball joint and link bushes.	Check and replace them if necessary.
	Excessive play or wear of steering gear.	Adjust or replace steering gear.
	Loose gear housing or steering idler assembly at body mountings.	Tighten mounting bolts and nuts.
	Loose steering linkage connections.	Inspect, replace worn parts if any tighten nuts with recommended torque.
	Suspension spring broken.	Replace them.
	Loose shackle bolts and nuts.	Tighten them.
	Loose or broken spring 'U' bolts.	Tighten or replace them.
	Distorted rear axle.	Inspect and if distortions are slight, straighten parts affected. Otherwise, replace them.
	Inoperative shock absorbers.	Inspect and replace them.
Uneven or Excessive tire wear	Incorrect wheel interchange.	Interchange wheels every 10,000 km (6,000 mile) as recommended.
	Incorrect tire pressure.	Check pressures and set them to recommended value.

	Wheels out of balance.	Balance wheels or replace them.
	Misadjusted brakes.	Adjust brake correctly.
	Incorrect wheel alignment.	Inspect and adjust alignment.
	Excessive distortion or incorrect installation of suspension links.	Inspect, reshape and replace if necessary or install them correctly.
	High speed on curves.	Reduce speed.
	Sudden start and sudden variations of speed due to rapid acceleration or improper brake application.	Avoid any unnecessary acceleration or brake application.
Tire squeal	Incorrect tire pressure.	Check tire pressure and inflate correctly.
	Incorrect front wheel alignment.	Check and adjust correctly.
	Knuckles or suspension links distorted.	Straighten or replace defective parts.

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