RX-7 Factory Service Material

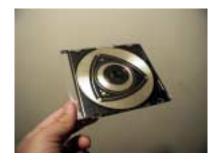
This manual can be downloaded for free from http://members.xoom.com/diepat_rx7/fsm/rx7.htm

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This includes

1993 Factory Service Manual
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The \$10 donation is used to offset the tremendous amount of time it takes to make everything available.



* These works are currently in process and may or not be readily available upon request. They will be hosted on the same link above and for download

WHEELS AND TIRES

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OUTLINE

SPECIFICATIONS

| Wheels | | | Tires | | | |
|--|--------------------|-----------------------------|---------------------------|----------------------|--------------------------------|--|
| Size | Offset | Diameter of pitch circle | Number of fixing holes | Material | Size | Tire pressure |
| Standard tire | | | | | | |
| *7-JJx16 RH *7-JJx16 LH | 40 mm (1.57 in) | | 5 | Aluminum | *205/55 VR16 (Directional) | |
| 6-JJx15 RH 6-JJx15 LH | | 114.3 mm (4.5 in) | 5 | | 205/60 VR 15 (Directional) | 216 kPa (2.2 kg/cm ² , 32 psi) |
| 5.5-JJx14 | | | 4 | Steel or Aluminum | 185/70 HR 14 185/70 R14 87H | |
| Temporary spa | are tire | | | | | |
| *30 mm 4-Tx16 (1.18 in) 4-Tx15 40 mm (1.57 in) | 3 in) 114.3 mm | 5 | *Aluminum Steel | T135/70 D16 | 415 kPa | |
| | | (4.5 in) | 4 | Aluminum | T135/70 D15 | - (4.2 kg/cm², 60 psi) |
| For turks mod | <u> </u> | | - | ····· | | 77U12X-10 |

*For turbo model

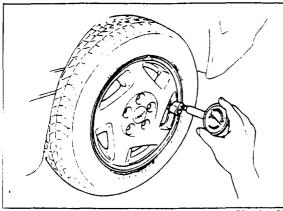
TROUBLESHOOTING GUIDE

| Problem | Possible Cause | Remedy | Page | |
|--|---|---|--|--|
| Excessive or irregu- lar tire wear | Incorrect tire pressure Unbalanced wheel(s) Tires not rotated correctly Severe driving Improper toe-in adjustment | Adjust Adjust Rotate properly Advise driver Adjust | 12- 4 12- 3 12- 3 - | |
| Premature tire wear | Incorrect tire pressure Adjust | | | |
| Tire squeal | Incorrect tire pressure Tire deterioration | Adjust Replace | 12- 4 | |
| Road noise or body vibration | Insufficient tire pressure Unbalanced wheel(s) Deformed wheel(s) or tire(s) Irregular tire wear | Adjust Adjust Repair or replace Replace | | |
| Steering wheel vibration | Irregular tire wear Right and left tread depths different Deformed or unbalanced wheel(s) Deformed tire(s) Unequal tire pressures Loose lug nuts | Replace Replace Replace or adjust Replace Adjust Tighten | $ \begin{array}{c} - \\ 12 - 3 \\ 12 - 4 \\ 12 - 5 \end{array} $ | |
| Uneven (one-sided) braking | Unequal tire pressures | Adjust | 12- 4 | |
| Steering wheel doesn't return properly, or pulls to one side (pulls to one side while vehi- cie is moving on a level road_surface) | Incorrect tire pressure Irregular tire wear (left and right are different) Unequal tire pressures Different types or brands of tires mixed (right/left) Improperly tightened lug nuts | Adjust Replace Adjust Replace Tighten | 12- 4 | |
| General driving in- stability | Unequal tire pressures Deformed or unbalanced wheel(s) Loose lug nuts | Adjust Replace Tighten | 12- 4 | |
| Excessive steering wheel play | Loose lug nuts Improperly adjusted front wheel bearing preload | Tighten Adjust | 12— 5 — | |

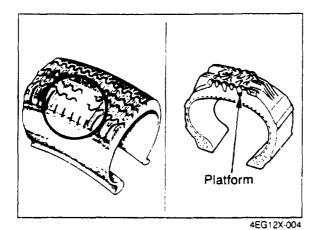


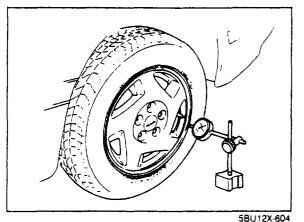
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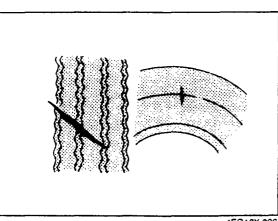
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WHEELS AND TIRES

INSPECTION AND ADJUSTMENTS

Check the following and adjust or replace as necessary.

1. Air pressure.

Check the air pressure of all tires, including the spare tire, with an air pressure gauge. (See specifications on page 12-2)

2. Tire wear

Wear Limit

Ordinary tires: 1.6 mm (0.063 in) min. (Tire should be replaced if wear-indicators are exposed.)

Snow tires: 50% of tread

(Tire should be replaced if platform is exposed.)

3. Wheel runout.

Wheel Runout

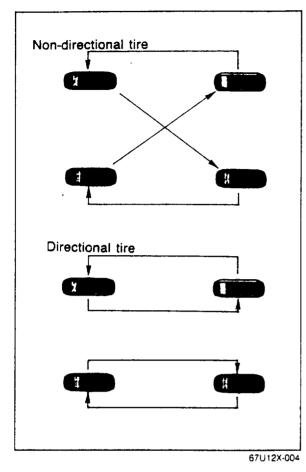
Horizontal: 2.0 mm (0.079 in) max. Vertical: 2.0 mm (0.079 in) max.

Note

Measure the runout while turning the tire and wheel.

- 4. Cracks, damage, or foreign matter (metal pieces, nails, stones, etc.) in the tire, and cracks, deformation, or damage to the wheel.
- 5. Loose wheel lug nut(s).
- 6. Air leaking from the valve stem.

12—3

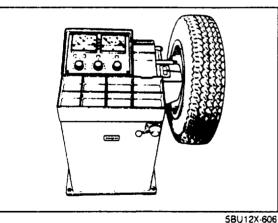


TIRE ROTATION

In order to prolong tire life and to assure uniform wear, the tires should be rotated after every 3.750 miles (6.000 km).

Caution

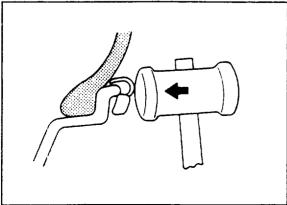
Do not include "TEMPORARY USE ONLY" spare tire in rotation.



WHEEL BALANCE

If a wheel becomes unbalanced, or if a tire is replaced or repaired, the wheel must once again be balanced to specification.

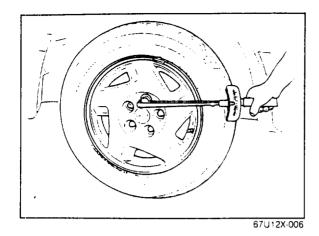
Amount of allowable unbalance (at rim edge): 10 g(0.35 oz) or less



Note the following points when balancing a wheel.

- 1. Do not use more than two balance weights on one side. If the total weight exceeds 100g (3.5oz), rebalance after moving the tire around on the rim.
- 2. Attach the balance weights tightly so that they don't protrude more than 3 mm (0.12 in) out beyond the wheel surface.

1. •



WHEELS

Lug nut tightening torque: 90-120 N·m (9.0-12.0 m-kg, 65-87 ft-lb)

Note

- 1. Wheel-to-hub contact surfaces must be clean.
- 2. Never apply oil to the nuts, bolts, or wheels; doing so.might cause looseness or seizure of the lug nuts.

Special Notes About Wheels and Tires

Do not use wheels or tires other than the specified types.

Notes Regarding Tire Replacement

Note the following points when tires are to be removed from or mounted onto the wheels.

- 1. Be careful not to scratch the tire bead.
- 2. Remove any pebbles, glass, nails, etc., embedded in the tire tread.
- 3. Be sure the air valve is installed correctly.
- 4. Apply a soapy solution to the tire bead and the edge of the rim.
- 5. After mounting a tire onto a wheel, inflate the tire to 245—294 Kpa (2.5—3.0 kg/cm², 36—43 psi). Check that the bead is seated correctly onto the rim, and that there are no air leaks; then reduce the pressure to specification.

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