

CorkSport

MAZDA PERFORMANCE



CorkSport 86-91 RX-7 Radiator Install instructions

Tools Required

- 10mm wrench and socket
- Floor Jack
- Catch Pan
- Safety Glasses
- Adjustable wrench
- Phillips head screw driver
- Pliers
- Jack Stands
- 1 Gallon of Coolant
- 12mm socket
- 14mm socket
- Ratchet

Contents

- CorkSport Performance Radiator
- 5 M6 X 1.00 thread bolts
- 5 M6 Washers
- 18 Page Installation Instructions
- 1 39mm Large flat washer

NOTE: Because of the increased thickness of this radiator, some trimming is required in the fan shroud for fan clearance. For 86-88 RX-7, trimming is required in the shroud, to accept new filler neck location. It is recommended to change your coolant when doing this upgrade and use only approved coolant for aluminum radiators. Check with local laws for disposal of used antifreeze.

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Vehicle used for install instructions is a 1991 RX-7.

WARNING:

Before you start make sure your car is completely cooled off. Failure to do this can result in severe burns from the hot coolant. The system is under pressure.

By using these instructions you are agreeing that you have automotive mechanical skills and an understanding of the cooling system in your car. Installation will take one - two hours.

Step 1. Jack up vehicle and place securely on jack stands. Remove radiator cap.



Step 2. Remove the thirteen 10mm head bolts from under tray and remove under tray.

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Step 3. Place a drain pan under the radiator, and remove the drain plug with a Philips head screw drive and drain coolant.

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Step 4. Remove the three 10mm head bolts from air box inlet pipe and remove pipe from vehicle.



Step 5. Remove coolant overflow hose from radiator and disconnect coolant level sensor.



Step 6. Disconnect upper radiator hose from radiator and engine.



Step 7. Disconnect battery cables (negative first). Loosen the two 14mm head nuts from battery hold down bracket. Remove battery and bracket.

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Step 8. Remove the four 10mm head bolts from battery tray and remove battery tray.



Step 9. Remove the four 10mm nuts from fan to pulley. Remove fan from vehicle.

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Step 10. Place a drain pan under lower radiator and heater hose connection. Remove clamps and hoses from radiator.



Step 11. (For 86 - 88 RX-7 only). Remove 2 wires from sensor on lower corner of radiator.

Step 12. Remove the four 12mm head bolts from radiator to vehicle mount locations. Remove radiator from vehicle.

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Step 13a. For 86-88 RX-7, remove 2 10mm head bolts and 3 plastic clips from shroud to radiator.

Step 13b. For 89-91 RX-7, remove 3 10mm head bolts from filler neck. Remove 2 10mm head bolts and 3 plastic clips from shroud to radiator. Remove shroud from radiator.

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Step 14. For 86-88 RX-7, remove sensor from lower corner of radiator. For 86-91 RX-7 remove coolant level sensor from top of radiator.

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Step 16a. For 86-88 RX-7, trim top corner of fan shroud to clear new radiator filler neck, similar as shown.



Step 16b. For 86-91 RX-7, trim a hole in fan shroud (where shown) for clearance of fan. NOTE: some additional trimming may be required later to make sure fan does not hit the shroud.

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Step 17. Remove metal sleeves from the 4 rubber mounting isolators. Remove isolators from old radiator. Install isolators in new radiator mounting locations.



Step 18a. For 86-88 RX-7, remove plug from lower corner of new radiator and install sensor removed from old radiator.

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Step 18b. For 86-91 RX-7, remove plug from top of new radiator and install coolant level sensor.



Step 19. Install fan shroud on new radiator using 5 supplied 10mm head bolts and M6 washers. NOTE: For 89-91 RX-7 use supplied flat washer with bolt at top corner location where original filler neck overlapped the shroud.

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Step 20. Install new radiator into vehicle using the original four 12mm head bolts.

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Step 21. Replace lower radiator hose and heater hose with their original clamps.

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NOTE: Make sure there are not any kinks in radiator hose. If there is, it may be necessary to shorten the hose some to remove kinks.



Step 22. Reinstall fan using the four original 10mm nuts.

NOTE: Check and make sure fan does not touch the shroud at any point. If it does remove fan and adjust trimming until the fan does not touch the shroud.



Step 23. Reinstall upper radiator hose to radiator and engine.

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NOTE: Make sure there are no kinks in the hose. If there is, shorten length of hose until kink is removed.



Step 24. Install coolant over flow hose to nipple on side of filler neck. Reconnect coolant level sensor. For 86-88 RX-7, reconnect the two wires to sensor on lower corner of radiator.



Step 25. Reinstall battery with the original four 10mm head bolts.



Step 26. Reinstall battery and hold down. Tighten the two 14mm nuts on hold down. Replace battery cables, positive first.

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Step 27. Double check tightness of all plugs and sensors. Fill radiator with fresh coolant and check for leaks. If no leaks are found, run vehicle to operating temp and check again

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for leaks as well as coolant level. If every thing is good replace under tray with the original thirteen 10mm head bolts.



Remove vehicle from jack stands and recheck coolant level. Enjoy.

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