

# CorkSport

MAZDA PERFORMANCE



## CorkSport 86-91 RX-7 Radiator Fan Shroud 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 Radiator Fan Shroud
- Six 6mm X 1.00 Thread Bolts
- 15 Page Installation Instructions
- 6 Flat Washer

**YOU MUST READ THESE ENTIRE INSTALLATION INSTRUCTIONS  
BEFORE BEGINNING INSTALLATION OF THIS PRODUCT.**

NOTE: This shroud was manufactured for use with the CorkSport aluminum radiator. If you are installing this part on a factory radiator in an 89-91 RX-7, some modifications will be necessary to make the shroud fit the radiator filler neck.

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These modifications will be noted later in the install instructions. For 86-88 RX-7, no modification will be necessary to fit on a stock radiator.

**NOTE:** We recommend changing your antifreeze/coolant for this install. Make sure the coolant you are using is propylene glycol antifreeze/coolant. Do not use methanol or alcohol based coolants. Check with local laws for disposal of used antifreeze.

**NOTE:** Vehicle used for install instructions is a 1991 RX-7. Your Rx7 may be different.

**WARNING:** Before starting installation make sure your car is completely cooled off. Failure to do this can result in severe burns from hot coolant.

**WARNING:** The coolant system is under pressure.

**WARNING:** This installation requires the removal of your radiator and should only be performed by experienced auto mechanics. Installation will take 1 - 2 hours.

**Step 1:** Disconnect battery cables (negative first). Loosen the two 14mm head nuts from the battery hold down bracket. Remove the battery and bracket.



**DANGER:** Follow instructions that came with your jack/stands. Death and or significant property damage could result if you do not.

**Step 2:** Jack up vehicle and place securely on jack stands. Remove the radiator cap.

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**DANGER:** Coolant under pressure. Follow instructions in owners manual.



Step 3: Remove the thirteen 10mm head bolts from under tray and remove the under tray.



Pictures continued on next page.

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Step 4: Place a drain pan under the radiator and remove the drain plug with a Philips head screw driver. Drain the drain coolant.

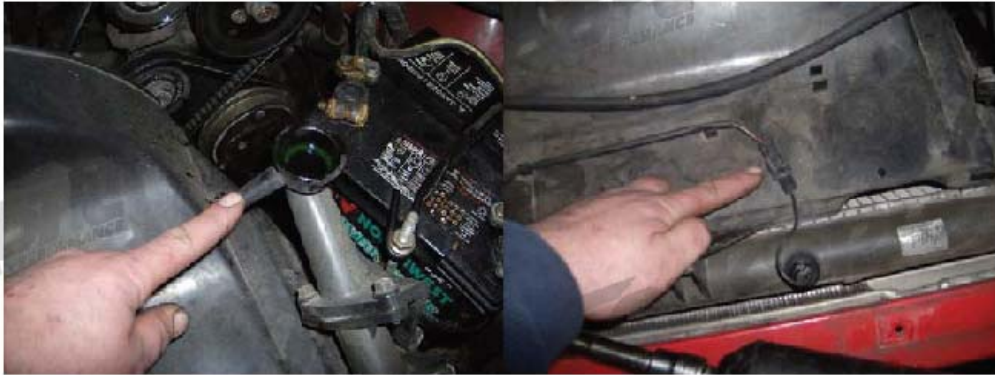
CAUTION: When you remove the drain screw the coolant can spray. Wear safety glasses.

Step 5: Remove the three 10mm head bolts from air box inlet pipe and remove the pipe from vehicle.



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Step 6: Remove the coolant overflow hose from radiator and disconnect coolant level sensor.



Step 7: Disconnect the upper radiator hose from the radiator and engine connection.



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



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

TIP: To get a bit of extra leverage you can hold the fan belt to keep the fan base from spinning. Be careful not to pinch your hand in the belt.



Step 10: Place a drain pan under lower radiator and heater hose connection. Remove the clamps and hoses from the radiator and allow the coolant to drain into the pan.



Step 11: (For 86 - 88 RX-7 only). Remove the 2 wires from the A/C auxiliary fan coolant temp sensor on lower corner of radiator.



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



Step 13A: For 86-88 RX-7, remove two (2) 10mm head bolts and three (3) plastic clips from shroud to radiator.



Picture continued on next page.

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Step 13B: (For 89-91 RX-7) Remove three (3) 10mm head bolts from filler neck. Remove two (2) 10mm head bolts and three (3) plastic clips from shroud to radiator. Remove shroud from radiator.



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Step 14: Install CorkSport fan shroud onto radiator, using the six (6) supplied 6x1.00 thread pitch bolts and six (6) washers.

NOTE: If installing on a factory radiator, use the original three (3) 10mm head bolts and three (3) plastic clips to install.



Pictures continued on next page.

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NOTE: If installing shroud on an 89-91 RX-7, you will need to trim out the mounting location shown. Trim the same as your factory shroud so filler neck can be re-installed.



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Step 15: Install radiator and shroud back into RX-7, using the original four (4) 12mm head bolts.



Step 16: Reconnect lower radiator hose and heater hose and tighten clamps.



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Step 17: Reinstall fan using original four (4) 10mm head nuts and tighten.



Step 18: Reinstall upper radiator hose and tighten clamps.



Step 19: Reconnect coolant overflow hose and coolant level sensor.



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Step 20: (For 86-88 RX-7) Reconnect 2 wires for A/C control switch in lower corner of radiator.



Step 21: Reinstall battery tray with the original four 10mm head bolts.



Step 22: Reinstall battery and hold down. Tighten the two 14mm nuts on hold down. Replace battery cables, positive first.



Pictures continued on next page.

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Step 23: Double check tightness of all plugs and sensors. Fill radiator with new coolant and check for leaks. If no leaks are found, run vehicle to operating temp and check again for leaks. Finally, check coolant level.

Step 24: Replace under tray with the original thirteen 10mm head bolts.



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#### Step 25: Final Test

- Remove the vehicle from jack stands.
- Check coolant level in the coolant bottle.
- Test drive your car
- Double check for leaks. If any leaks are found locate them and fix them. Check the tightness of the hose clamps and that the hoses are seated properly to fix the leak(s) if any are found.

**CAUTION:** Due to the nature of the rotary engine they are susceptible to damage from overheating. If the cooling buzzer sounds at all then find a safe place to pull off the road as quickly as you can. Do not ignore the coolant buzzer or overheat the engine. Engine damage will likely result.

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