



Please read through these installation instructions completely, prior to performing any work on your vehicle. Note that these instructions are only to be used as a guide, and are not a substitute for common sense, mechanical skills or ability to work on your vehicle. We recommend you consult your factory service manual for specific removal procedures, as well as recommended torque specifications for installation. If you do not feel comfortable with or capable of installing these products, we recommend you have a professional mechanic perform the work on your behalf. Also, we recommend you replace your hoses, hose clamps and thermostat while performing this work, as well as flushing your cooling system (dispose of waste in compliance with local, state and/or federal requirements).

DISCLAIMER

Any damage that is a result of installation or improper torquing, etc., is not covered under warranty.

For the purposes of these instructions, we will assume that you have already removed your existing radiator following the instructions in your factory service manual.

PRE-INSTALLATION

1. Carefully remove the radiator from the box, taking care not to damage the radiator
2. Inspect for any damage (if damage is found, stop and immediately contact us as well as UPS to file a damage claim; retain all packing materials for inspection)
3. If no damage is found, now inspect the inside of the radiator through the fill-neck and through the various openings
4. Using distilled water, we recommend you flush the new radiator to remove any paper or packing debris that may have entered the radiator during shipping. Pour the water into the radiator, gently swish it around, and then pour out.
5. Ensure the core support area is clean, clear and free of any obstructions
6. Place a piece of cardboard on the front and back of the radiator core support area, held in place with some masking tape (this will protect the fins during installation), and install a new radiator cap (12-15lb caps are recommended)
7. Using a helper, gently set the radiator into the core support opening and check fitment (report any problems to us immediately)
8. If there are no problems, center the radiator up in the core support area from left to right, and top to bottom. Note, some radiators will have to sit lower due to hood clearance, and you must double check hood clearance before installing or drilling holes in the mounting brackets.
9. Once clearance has been confirmed side to side and top to bottom, as well as hood clearance, you can now mark the mounting holes. Using a sharpie marker, mark each of the mounting holes. Now remove the radiator from the core support area and set down on a flat, level surface with a 2x4 or 4x4 under each mounting bracket.

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10. Use a brass punch to mark the center of each of the holes to be drilled. Using a drill and 3/8" drill bit, gently drill the holes (note that some core supports will require a slightly larger drill bit; adjust as necessary, but remember to only drill the holes as large as necessary).
11. With the holes drilled, clean off any metal shavings and debris, ensuring none have entered the radiator.
12. Place the radiator back into the core support area and loosely reinstall your existing mounting bolts. If there are no complications, at this point you can remove the cardboard off the front of the radiator. Slowly tighten the mounting bolts finger tight until all four are hand-tight. At this point, refer to your factory service manual for recommended torque specifications, and finish torquing bolts down.
13. Reinstall all hoses and fittings, taking care to check fitment. Tighten all hose clamps to the recommended torque per your factory service manual.
14. If your radiator is equipped with a transmission oil cooler / engine oil cooler, you will need to now route your cooling hard lines to the new ports. 3/8" NPT fittings are used on our products, and we recommend using liquid Teflon paste around the threads. Note: DO NOT USE TEFLON TAPE, as it can bind during installation and ruin the threads. If threads are damaged during installation, this is not an item covered by our warranty. We can remove and replace the threads, but you will incur shipping, material and labor charges for this service. Take EXTRA care to ensure the fittings are not cross-threaded before using any tools to tighten. Again, do not over-tighten as you can damage the threads.
15. Remove the cardboard off the engine-side of the radiator at this time.
16. If you purchased a fan shroud and electric fan kit, you may now install them. Start by installing the four body-mount clips onto the corresponding mounting tabs on the engine-side of the radiator. Take care not to damage the fins of the radiator during installation.
17. Place the fan shroud and fans over the radiator and install with the supplied hardware. Note that the hardware should be installed only finger tight, and then cinched down with a wrench. Do not over tighten as damage may occur, which is not covered by the warranty.
18. Wire the fan into your electrical system (we recommend using a relay and our thermostat switch kit)
19. We recommend you fill the radiator with a mixture of 50% distilled water and 50% regular antifreeze for most climates. Extreme Northern or Southern climates may require a different mixture, and you should once again refer to your factory service manual. Check for any leaks. If a leak is discovered, check for the source PRIOR to starting the engine.
20. If no leaks are present, proceed to start the vehicle and check for leaks at hose fittings, connections, etc.

Again, these instructions are to be used only as a guide. We are not able to anticipate every situation that might occur during installation, and you should use common sense. If something doesn't look right or feel right, stop immediately and call or email us. We'd rather find out it is nothing than to overlook something that might become a problem. We value your business, and welcome any feedback.

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