

INSTALLATION & WARRANTY SHEET



ADRAD NATIONAL RADIATORS

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ADRAD NATIONAL RADIATORS RADIATOR INSTALLATION PROCEDURE

Thank you for selecting a quality ADRAD radiator for your vehicle. The radiator has been manufactured to high quality standards and with correct installation, care and maintenance of the vehicle's cooling system, the radiator will provide your vehicle with trouble-free engine cooling.

(PART A) INSTALLATION PROCEDURE FOR REPLACING THE RADIATOR STILL IN THE VEHICLE

1. Before removing the radiator, check the cooling system for stray current by:
 - 1.1 Carefully removing the radiator or expansion tank cap & bring the vehicle up to operating temperature.
(WARNING: EXERCISE EXTREME CAUTION WHEN REMOVING THE RADIATOR OR EXPANSION TANK CAP)
 - 1.2 Switch on all electrical items and ensure that the brake lights and hazard lights are functioning correctly.
 - 1.3 Use an analogue multimeter with a sensitivity of .05 volts or a stray current detector to check for the presence of electrical current by placing the negative lead on the battery negative post and the positive lead directly into the coolant. Be sure not to touch the side of the filler neck or core of the radiator with the positive probe. Switch on all the vehicle's electrical systems one at a time, e.g. spotlights, radios, CBs, air conditioner, etc. Do this process first with the engine running and then repeat the process with the engine off.
 - 1.4 A reading of more than .05 volts or a positive red light indicates damaging current is present in the cooling system.
 - 1.5 If voltage (stray current) is detected, isolate the circuit by turning all electrical items off and switching each circuit ON individually. This procedure by process of elimination assists in identifying the source of the current.
2. On successful positive completion of the stray current test, completely drain the coolant from the system.
3. Thoroughly flush the cooling system, including the overflow reservoir and the heater system to remove all the old coolant, and any remaining residue or deposits. A flush system is the most efficient method of removing all traces of the old coolant, loose particles or sediment.
4. Fill the system with water and treat using a quality alkaline cleaner, making sure that the vehicle's heater is turned on. Observe the instructions on the container. Run the vehicle to operating temperature.
5. Follow the vehicle manufacturer's recommendations for servicing of the cooling system, checking all components for wear.
6. Drain the water from the system and flush out with clean water. A descaler or flushing treatment may be required. RINSE - RINSE - RINSE with clean water until you are convinced the system has been thoroughly flushed.
7. Remove the old radiator.
8. Install the new radiator assembly referring to the vehicle manufacturer's recommendations for any additional installation procedures.
9. Refill the system with clean water and check for stray current (refer to item 1).
10. Drain the water from the system.
11. Fill with the correct dosage of coolant/inhibitor, which complies with Australian Standard AS2108-2004 (A) or the vehicle manufacturer's recommendation as a minimum standard. When mixing approved concentrated coolant/inhibitor, Distilled, Demineralised or Reverse Osmosis water must be used as recommended by the vehicle's manufacturer or the coolant/inhibitor's manufacturer. Ensure that the vehicle manufacturer's instructions for filling the cooling system are followed to ensure that air-locks are removed from the system and the vehicle has been run up to normal operating temperature, checking the coolant/inhibitor level and that all components are free from leaks.

WARNING

THE SOURCE OF THE STRAY CURRENT MUST BE ELIMINATED BEFORE THE RADIATOR INSTALLATION CAN CONTINUE. FAILURE TO CORRECT A STRAY CURRENT FAULT WILL VOID THE MANUFACTURER'S WARRANTY AND LEAD TO PREMATURE FAILURE OF THE RADIATOR. CONSULT A QUALIFIED AUTO ELECTRICIAN FOR ASSISTANCE IF YOU ARE UNABLE TO LOCATE AND FIX THE CAUSE OF THE STRAY CURRENT.

NEVER MIX COOLANTS / INHIBITORS, AS THE RESULTING MIXTURE MAY HAVE AN ADVERSE CHEMICAL REACTION WITHIN THE COOLING SYSTEM, LEADING TO PREMATURE FAILURE OF THE RADIATOR & IT WILL VOID THE WARRANTY

(PART B) INSTALLATION PROCEDURE FOR REPLACING THE RADIATOR NOT IN THE VEHICLE

1. Install the new radiator assembly referring to the vehicle manufacturer's recommendations for any additional installation procedures.
2. Fill the system with water and treat using a quality alkaline cleaner or descaler making sure that the vehicle's heater is turned on. Observe the instructions on the container. Run the vehicle to operating temperature.
3. Thoroughly flush the cooling system, including the overflow reservoir & the heater system to remove all of the old coolant, and any remaining residue or deposits. A flush system is the most efficient method of removing all traces of the old coolant, loose particles or sediment. RINSE - RINSE - RINSE with clean water until you are convinced the system has been thoroughly flushed.
4. Following the vehicle manufacturer's recommendations for servicing of the cooling system, checking all components for wear.
5. Refill the system with clean water and perform the stray current procedure test detailed in the first section of the installation procedure. If the stray current test is negative, proceed with installation.
6. Drain the water from the system.
7. Fill with the correct dosage of coolant/inhibitor, which complies with Australian Standard AS2108-2004 (A) or the vehicle manufacturer's recommendation as a minimum standard. When mixing approved concentrated coolant/inhibitor, Distilled, Demineralised or Reverse Osmosis water must be used as recommended by the vehicle's manufacturer or the coolant/inhibitor's manufacturer. Ensure that the vehicle manufacturer's instructions for filling the cooling system are followed to ensure that air-locks are removed from the system and the vehicle has been run up to normal operating temperature, checking the coolant/inhibitor level and that all components are free from leaks.

IMPORTANT: ALWAYS CHECK FOR STRAY CURRENT - FLUSH - NEVER MIX COOLANTS OR INHIBITORS

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ADRAD NATIONAL RADIATORS WARRANTY POLICY

SCOPE OF WARRANTY

Adrad warrants in favour of the original purchaser of this product (Purchaser) that the product will be free from manufacturing defects in materials and workmanship for the period from the date of original installation specified below in respect of the product (Warranty Period):

| PRODUCT | WARRANTY PERIOD |
|---|---|
| COMPLETE RADIATOR ASSEMBLIES & RADIATOR CORES When installed in <ul style="list-style-type: none">domestic passenger vehicles, ANDwith a payload not exceeding 1 tonne, ANDused exclusively for private use | 2 YEARS or 60,000 kms <i>(whichever occurs first)</i> |
| ALL PRODUCTS When installed in vehicles: <ul style="list-style-type: none">used for racing, orwith known design faults where the original part has a history of premature failure | 3 Months |
| ALL OTHER PRODUCTS & APPLICATIONS Excluding workshop tools & equipment | 1 YEAR |
| WORKSHOP TOOLS & EQUIPMENT | Warranty as provided by original manufacturer |

If within the Warranty Period a defect in materials and/or workmanship is discovered in the product then Adrad will, at Adrad's option, repair or replace the product at its cost or refund the purchase price paid by the Purchaser in accordance with this Warranty. If the product is repaired or replaced under this Warranty, the repaired or replacement product will be covered by this Warranty only for the remainder of the Warranty Period

This Warranty will NOT apply

- To fair wear and tear
- Where the product is purchased via online auction
- If any serial number or date code on the product is removed
- If the product is:
 - altered or modified prior to or after installation (unless approved by Adrad QA department);
 - stored, handled, installed or maintained in any way contrary to Adrad's instructions or specifications or otherwise improperly stored, handled, installed or maintained;
- subject to faulty power supply, power failure, electrical spikes or surges;
- exposed to any abnormal climate conditions or operating circumstances (eg. damaged as a result of a fan, incorrect coolant mix, incorrect refrigerant or incorrect lubricant);
- subjected to misuse, neglect, negligence, accidental damage, or act of God; or
- used after any defect in the product becomes apparent or would have become apparent to a reasonably prudent operator or user.

Without limiting the above, this Warranty will NOT apply in respect of any radiator or core unless:

- the radiator, engine and heater core are machine flushed at time of installation and at least once every 12 months / 30,000 km (whichever occurs first) thereafter;
- a stray current test is performed at time of installation and shows a reading less than 0.05 volts;
- the radiator is cleaned out at least once every 12 months / 30,000 km (whichever occurs first) using a quality alkaline cooling system cleaner in accordance with the instructions for use of such cleaner;
- the correct dosage of coolant/inhibitor which complies with Australian Standard AS2108-2004(A) or the vehicle manufacturer's recommendations is used in the radiator;
- the correct amount of distilled, demineralised or reverse osmosis water as recommended by the coolant/inhibitor or vehicle manufacturer is used in mixing coolant/inhibitor;
- the vehicle manufacturer's instructions for filling the cooling system are followed to ensure that air locks are removed from the system, the vehicle has been run up to normal operating temperature, the coolant/inhibitor level is checked and all components are checked to ensure they are free from leaks;

- the correct pressure cap as specified by the vehicle manufacturer is utilised and in good working condition;
- the vehicle's cooling system is maintained (free from rust corrosion, sludge and foreign material) by an Adrad authorised radiator repair centre at least once every 12 months / 30,000 kms (whichever occurs first).

No Adrad employee, distributor or reseller, authorised radiator repair centre or other agent of Adrad has authority to vary the terms of this Warranty.

CLAIMING UNDER THIS WARRANTY

In order to make a claim under this Warranty, the place of purchase must be notified within one month of the defect becoming apparent. The Adrad Agent must within 7 days after notification contact Adrad to obtain a Warranty Claim Authorisation Number for the product and to be notified of Adrad's return address for the product:

The Adrad Agent must provide the following information to Adrad when obtaining a Warranty Claim Authorisation Number:

- date of purchase of the product and invoice number for the product;
- date of manufacture or serial number of the product (appearing on identification plate attached to the core);
- description of the defect;
- the Purchaser's contact details.

The defective product must be returned to the return address notified by Adrad together with the invoice or other proof of purchase of the product and the Warranty Claim Authorisation Number.

Adrad will not accept any returned products which have not been returned strictly in accordance with this Warranty.

If the product is found to be working satisfactorily on return, the Purchaser must pay all reasonable costs of testing the product before the product will be redelivered to the Purchaser.

Adrad's determination of the existence of any defect in the product or the cause of any defect in the product is conclusive.

Adrad may at its discretion repair or replace the defective product or parts with refurbished product or parts or may replace the defective product or parts with an alternative product or parts (different in size, colour, shape, weight, brand and/or other specification).

Any products or parts which are replaced under this Warranty become the property of Adrad.

The Purchaser will be responsible for all costs of returning the product to Adrad (including removal and refit) and for collection or redelivery of the product (whether original or repaired and/or replacement product) by Adrad and any other expenses of the Purchaser in claiming under this Warranty.

LIMIT ON LIABILITY

Adrad will not be responsible for:

- any loss of profits or other indirect or consequential loss arising from any defect in the product;
- any loss or damage to the product occurring while the product is in transit (either on return to Adrad or upon redelivery to the Purchaser of the original or repaired and/or replacement product);
- any loss or damage caused by any delay in assessing the Purchaser's claim or in repairing or replacing the product.

APPLICATION OF CONSUMER LAWS

The benefits of this Warranty are in addition to any other rights and remedies available to the Purchaser under the law.

Nothing in this Warranty is intended to have the effect of contracting out of any applicable provision of the Australian Consumer Law or the New Zealand Fair Trading Act 1986, except to the extent permitted by those Acts.

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