



NOTICE TO OWNERS

COOLING UPGRADE

Congratulations on buying an Australian made Lovells Automotive Systems aluminium cooling product. We are sure that you will get a lot of satisfaction from your Lovells Automotive Systems cooling product. Being designed for higher performance and built 100% from aluminium does mean that our cooling products need to be correctly installed and used to maximise their performance and longevity. We stand behind the quality of our products but need you to play your part on the fitting, use, and care to get the results and life that our products offer.

Lovells Automotive Systems 100% test all cooling products before they leave our factory. So we are very confident that cooling products do not leave Lovells Automotive Systems defective.

IMPORTANT – ON OPENING

When Lovells Automotive Systems sends your new cooling product from the factory, we make sure it is securely packaged and well protected against accidental damage in transit. Please make sure that you check the box, packaging and product itself before installing. If you have any concerns that it may have been damaged in transit, you must advise us prior to attempting to fit the product. We will repair or replace a Lovells Automotive Systems product that has been damaged in transit when you receive it but cannot guarantee this commitment if you fit it whilst damaged.

IMPORTANT – ON INSTALLATION

Lovells Automotive Systems built your cooling product to OEM fitment specification and to ensure the drivetrain thermal capabilities are able to manage Lovells GVM, Towing and GCM Upgrades.. Installation and fitment can be impacted by a number of issues like modifications made to your car, prior accidents changing alignments, and variations in the original manufacture. If fitment cannot be made without putting undue pressure on the product (for example, having to pressure the product into position before securing it), stop and contact Lovells Automotive Systems.

Electrolysis (also known as stray current) in your aluminium radiator can quickly ruin your new radiator. IT is absolutely essential to test for stray current on the existing radiator in your vehicle and again when your new Lovells Automotive Systems aluminium radiator is installed.

On the back of this card we have provided some installation essentials. These are not meant to be a comprehensive guide in fitting your Lovells Automotive Systems cooling product but are issues that Lovells Automotive Systems has found to cause problems. You must read and follow these. If you are having the product installed by someone else, they must read and follow these.

We will not consider repair or replacement where our product has been forced to fit, has been incorrectly installed, or has been subject to electrolysis. A blackened inside of a radiator is a strong sign that electrolysis has occurred.

IMPORTANT – ONGOING USE

Like most parts of your car, our products need to be serviced to maintain their performance. You are responsible for the monitoring of engine temperature operations and for having appropriate detection devices in place to warn of overheating and other engine related malfunctions. At time of installation an approved coolant must be added to the cooling system. Two simple rules have to be followed - never mix coolants and always use distilled water.



IMPORTANT INFORMATION WHEN FITTING:

GENERAL:

Be careful with all fitting to make sure all mounting points align to the Lovells Automotive Systems product and are properly tightened (to manufacturers specifications) and that there is sufficient clearance so no rubbing occurs.

RADIATOR:

1. Before removing the old radiator check the existing coolant for electrical charge. This is done by connecting an analogue voltmeter between the coolant and the battery ground. The meter should have a range of at least 12 volts (assuming the vehicle has a 12 volt charging system) and a sensitivity of at least one-tenth of a volt. By connecting one test lead to battery ground and placing the other lead into the coolant (do not touch the metal core or filler neck) any voltage indicates current passing through the coolant – this means electrolysis will occur. If the voltmeter reading exceeds 50mV, you must find the source of current and fix it prior to installation otherwise the radiator will deteriorate very rapidly.
2. If no current is found, flush the cooling system with distilled water to remove existing coolant/inhibitors. When the entire system has been flushed including any heater and overflow bottles, you can fit the new radiator. It is essential that you do not mix coolants.
3. Refill the system. Select a coolant that is recommended by the manufacturer or by Lovells Automotive Systems. The coolant must meet the current AS2108 or manufacturers engine coolant/inhibitor standard. Bring engine up to temperature and let cool. Recheck the coolant level and top up if necessary. Use only distilled water.
4. Repeat step 1 to check for electrical charge again.
5. Ensure that all hose clamps are done to prevent leakage.
6. The correct cap in good working order must be used.

INTERCOOLER:

1. Ensure that all hose clamps are done up to prevent leakage.

ENGINE OIL COOLER:

1. Ensure that all hose clamps are done up to prevent leakage.
2. Do not run over 80psi rating.

TRANSMISSION OIL COOLER:

1. Ensure that all hose clamps are done up to prevent leakage.
2. Do not run over 100psi rating.

LIQUID TO AIR BARREL INTERCOOLER KIT:

1. Select a coolant that is recommended by Lovells Automotive Systems – the coolant must meet the current AS2108 engine coolant/inhibitor standard. Refill the system. Bring engine up to running temperature and let cool. Recheck the coolant level and top up if necessary. Use only distilled water.
2. Ensure that all hose clamps are done up.
3. Pump must be fitted in accordance to fitting instructions supplied and by a qualified auto electrician.

WHAT TO DO IF A FAULT DEVELOPS.

In the first instance, you should either take your vehicle back to where the Lovells Automotive Systems cooling product was installed or to a suitably qualified radiator shop to investigate what the issue is.

If you believe that the issue has arisen due to faulty manufacture, please contact Lovells Automotive Systems on 02 9820 6800 to discuss the matter.

HOW TO GET THE BEST FROM YOUR LOVELLS AUTOMOTIVE SYSTEMS COOLING PRODUCT.

- + **Have it fitted by a reputable, qualified mechanic/radiator workshop.**
- + **Regularly check and service it.**
- + **Avoid accidental damage or damage through abuse or negligence.**
- + **Do not use for an application for other than it was intended.**
- + **Do not fit parts or accessories that detrimentally affect the product.**
- + **Carry out and record a radiator electrolysis**



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