

COOLMASTER

Fitting Instructions

Part № **49474K**



Kit contains:

- Extra Large Cross Flow Oil Cooler
- Top and Lower Brackets
- 1m 3/8" Transmission Cooler Hose
- 1 3/8" U Bend Tube
- 2 3/8" Barb Fittings
- 6 Cable Ties
- 6 3/8" Cooler Hose Clamps
- 4 Nuts M6 Hex

1. Ensure the vehicle is switched off and has cooled prior to installation. It is recommended that both the engine and transmission are at a low operating temperature.
2. Open the bonnet.
3. Remove the engine dress covers above the radiator.
4. Remove the upper grille by removing the two (2) 10mm bolts and two (2) plastic retaining clips. **(Pic 1)**



Pic 1

5. Remove the upper radiator mounting clips. Using a flat blade screwdriver, lift the locking tab in the centre of each mount. Insert the screwdriver into the mount, pull the locking tab forward, then gently rock the mount side to side while lifting it vertically from the mounting rails. **(Pic 2)**



Pic 2

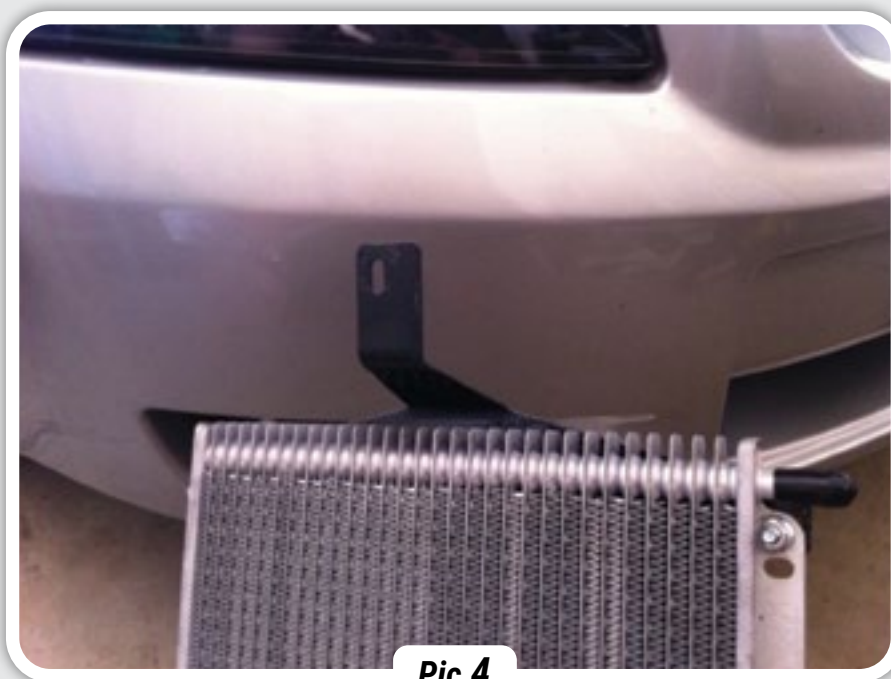
6. Carefully push the radiator and condenser assembly rearward towards the engine to gain access to the upper condenser mounting bolts.
7. Remove the left-hand and right-hand 10mm bolts securing the condenser to the radiator.
8. From underneath the front bumper opening, carefully lift the condenser out of its lower mounting points.
9. Position the supplied lower mounting bracket beneath the condenser mounting points, then carefully lower the condenser back into its original position. **(Pic 3)**

NOTE: DO NOT MOUNT THE TRANSMISSION COOLER TO THE LOWER BRACKET AT THIS STAGE.



Pic 3

- 10.** Feed the assembled transmission cooler and upper mounting bracket into position through the lower front bumper opening. You may need to gently move the condenser forward to provide sufficient clearance during installation. **(Pic 4)**



Pic 4

- 11.** Secure the upper mounting bracket using the right-hand bonnet latch 10mm bolt. Leave the bolt loose at this stage to allow for adjustment. **(Pic 5)**



Pic 5

12. Attach the lower mounting bracket to the transmission cooler and tighten the four (4) M6 mounting nuts.
13. Tighten the upper mounting bracket bolt to fully secure the transmission cooler assembly
14. Route the two supplied 3/8" transmission hoses from the cooler towards the right-hand side of the radiator, following the factory transmission cooler lines. Secure the hoses with the supplied cable ties as you route them.
15. Locate the factory rubber transmission cooler hose and cut it in a suitable location to allow installation of the supplied inline fittings.



Pic 6

NOTE: SOME TRANSMISSION FLUID WILL BE LOST WHEN THE HOSE IS CUT. TO MINIMISE FLUID LOSS, CLAMP THE HOSE BEFORE CUTTING OR KEEP THE HOSE ENDS ELEVATED UNTIL THE NEW HOSES ARE CONNECTED.

16. Install the supplied 3/8" inline fittings into the two cut ends of the factory hose leading from the transmission and secure them using the supplied hose clamps.

17. Connect the two hoses from the transmission cooler to the inline fittings and secure them using the supplied hose clamps.

NOTE: HOSE ORIENTATION IS NOT CRITICAL. HOWEVER, FOR OPTIMUM PERFORMANCE, IT IS RECOMMENDED THAT TRANSMISSION FLUID FLOWS UPWARD THROUGH THE COOLER TO ASSIST WITH REMOVING TRAPPED AIR.

18. Use the supplied U-bend tube to connect the two transmission cooler lines coming from the radiator. Secure the connections using the supplied hose clamps.

NOTE: THIS BYPASSES THE FACTORY RADIATOR TRANSMISSION COOLER, ELIMINATING THE POSSIBILITY OF CROSS-CONTAMINATION BETWEEN THE ENGINE COOLANT AND AUTOMATIC TRANSMISSION FLUID.

19. Recheck that all hose clamps, mounting hardware and fasteners are fully tightened.
20. Reattach the condenser to the radiator, reinstall the upper radiator mounting clips and ensure the radiator is correctly positioned.
21. Before starting the vehicle, ensure all tools, loose parts and panels have been removed from the engine bay. Leave the upper grille and engine dress covers removed for inspection.
22. Start the engine with the transmission in Park and inspect all hose connections and fittings for leaks.
23. With your foot firmly on the brake, select Drive and slowly move the vehicle forward several metres before returning it to the original position. Recheck all hose connections and fittings for leaks.

WARNING: THE ENGINE COOLING FANS MAY START WITHOUT WARNING. KEEP HANDS, TOOLS AND CLOTHING CLEAR OF ALL MOVING COMPONENTS.

24. If no leaks are present, reinstall the upper grille and engine dress covers by reversing the removal procedure
25. Check the automatic transmission fluid level and top up if required using the vehicle manufacturer's recommended transmission fluid.