

COOLMASTER *OffRoad*

Fitting Instructions

Part Nº **49489K**



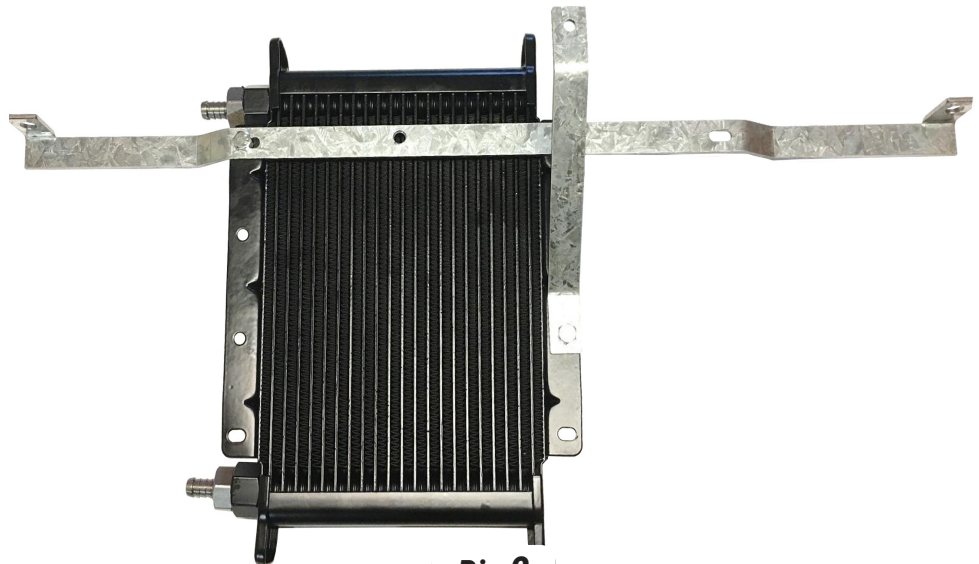
Kit contains:

- Extra Large High Flow Cooler
- 2 Cooler Fittings
- 2 Meters Hose
- 1 Large Bracket
- 1 Small Bracket
- 2 Heat Exchanger Fittings
- 2 Flared Steel Lines with Nut
- 4 Orings for Heat Exchanger Fittings
- 4 Hose Clamps
- 1 90 Degree Fitting
- 1 Nut and Bolt Fitting Kit
- Instructions

1. Screw-in the 2 fittings to the cooler. Make sure you use 2 spanners to prevent damaging the cooler when tightening. **(Pic 1)**

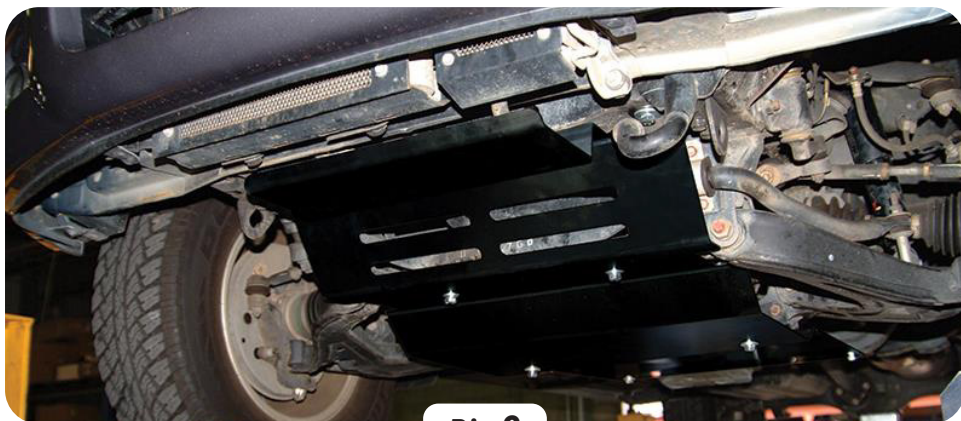


Pic 1



Pic 2

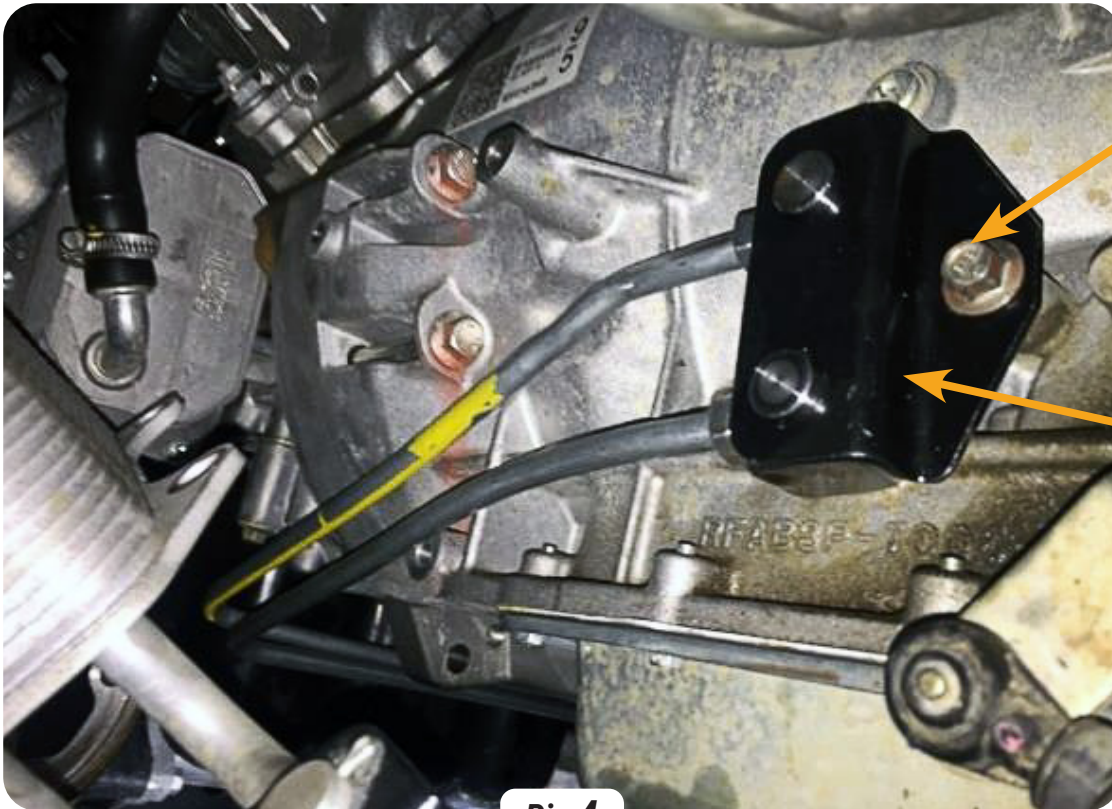
2. Mount the cooler onto the bracket as shown on **Pic 2**.
3. Remove under body covers from the vehicle. These may vary from model to model and aftermarket versions. **(Pic 3)**



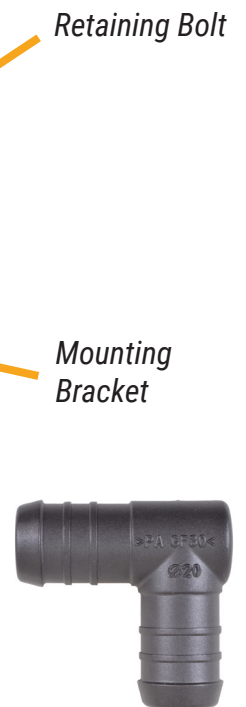
Pic 3

4. Remove front bolts from front drive shaft and let shaft sit down to expose heat exchanger.

5. Remove heater exchanger retaining bolt to transmission, keep retaining bolt and bracket to secure new fittings. Crimp water lines to prevent coolant loss. Remove and discard the heat exchanger. **(Pic 4)**



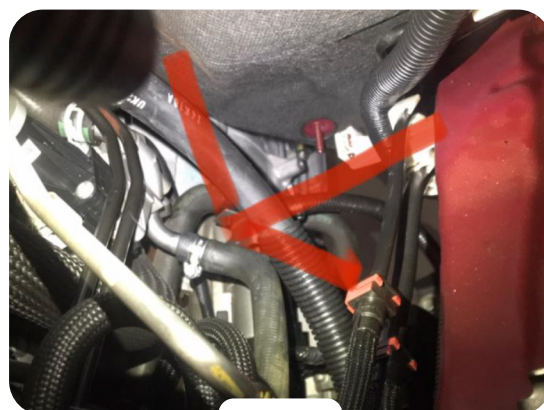
Pic 4



Pic 5

6. Loop heater hose from engine to heat exchanger with 90 degree fitting supplied. **(Pic5)**. Secure with hose clamps. * Hose clamps not provided use clamps of your choice.

Alternatively, you can loop existing hoses - see steps 7 and 8. **(Pic 6)**

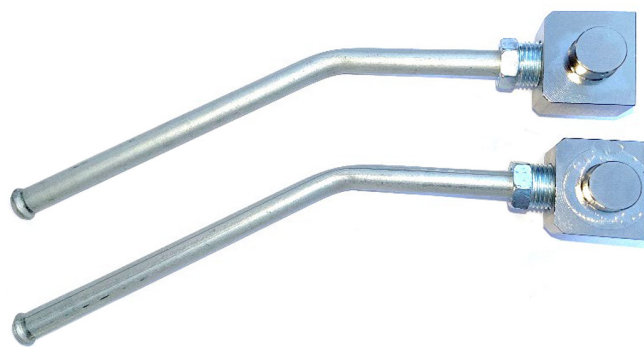


Pic 6

7. Remove short hose from the cooling system.
8. Cut as required long hose from the cooling system to heat exchanger until it forms a neat loop when connecting to both sides of cooling system pipes as shown. Secure with hose clamps. * Hose clamps not provided use clamps of your choice.
9. Fit new heat exchanger fittings (**Pic 7**) with o-rings to case and refit existing mounting bracket (do not completely tighten bracket at this point).



Pic 7



Pic 8

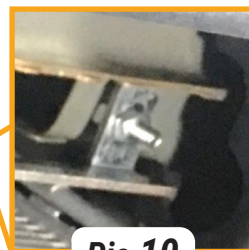
10. Fit new steel lines supplied finger tight to the heat exchanger fittings. (**Pic 8**)

Attention: Before mounting transmission pipes into heat exchanger fitting, you must bench fit first. It is best to screw it in tight and undo 3 or 4 times before tightening it for final time this will help the end of the cooling pipe seat inside the fitting. It is recommended to use thread sealer for final fitment.

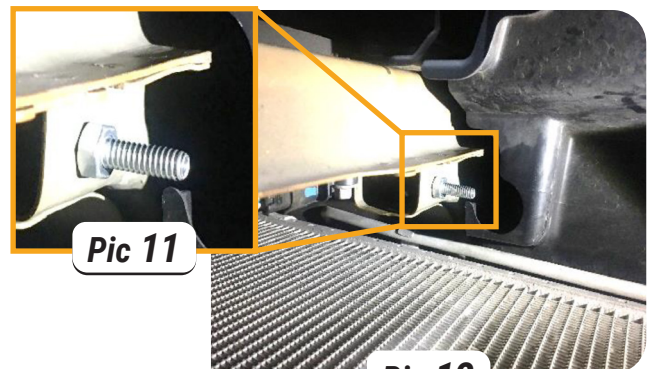
11. Use provided long M6x25mm bolts to pass through as shown on the front rail. Lock in with nuts provided creating studs. (**Pic 11**)



Pic 9



Pic 10

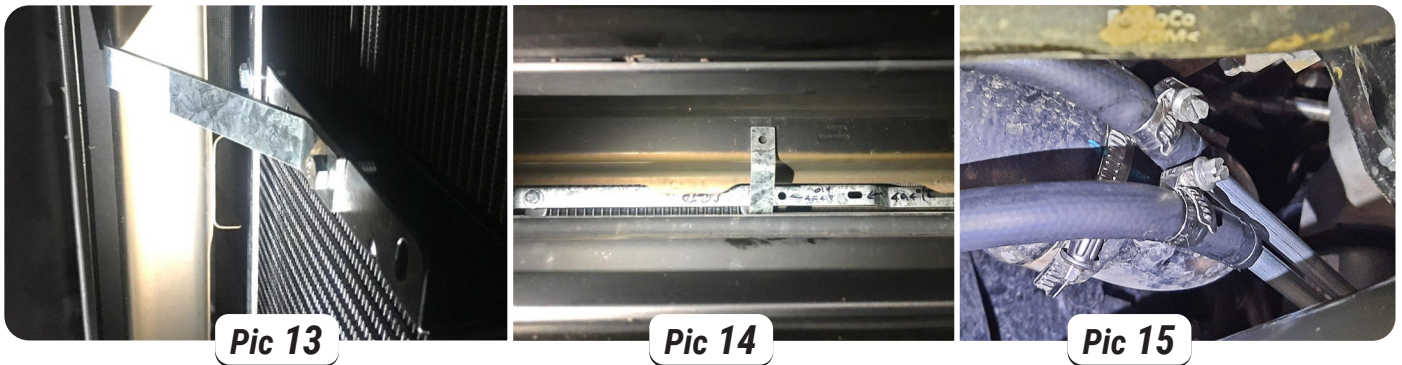


Pic 11

Pic 12

12. Slide Cooler and bracket assembly over studs created as shown. Secure in place as shown in steps 13, 14 & 15. (**Pic 9**)

- 13.** Insert as follows: - Flat washer -> Spring washer -> Nut **(Pic 10)**
- 14.** Support bracket fitted to cooler should fit in this position. **(Pic 13)**
- 15.** Insert tek screw provided to secure cooler. **(Pic 14)**



- 16.** Tighten steel lines into heat exchanger case fittings shown in step 9, once correct angle has been achieved completely tighten fitting support bracket. Manipulate cooler lines if required so they are not rubbing anywhere.
- 17.** Cut to length and install cooler hose provided from cooling lines to the cooler. **(Pic 15)**
- 18.** Refit Front drive shaft.
- 19.** Start vehicle and check for oil leaks and top up Transmission oil (to manufacturer's specification).
- 20.** Check engine coolant level top up if required follow service procedures to remove air from the cooling system.
- 21.** Road test vehicle and recheck above.
- 22.** Replace all covers and ensure no rubbing on hoses and pipes.