

# COOLMASTER *OffRoad*

## Fitting Instructions

Part Nº **49491KR**



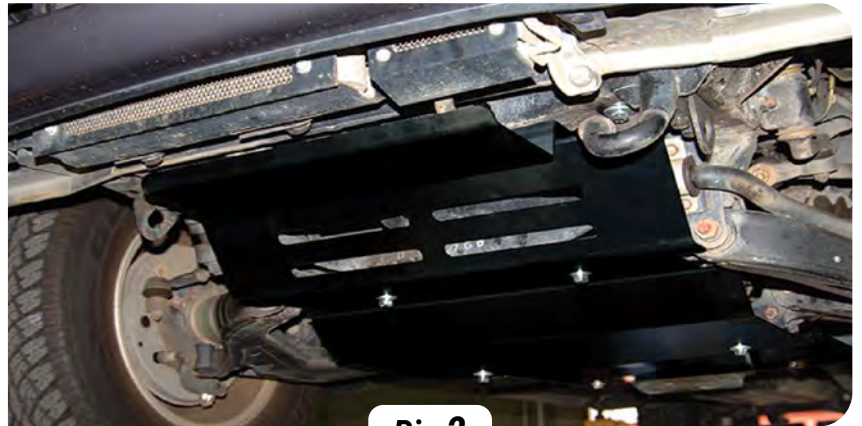
### Kit contains:

- Powder Coated Steel Bracket
- Extra Large High Flow Cooler
- 2 Cooler Fittings
- 6 meters Cooler Hose
- 2 Heat exchanger fittings
- 4 O-rings for Heat Exchanger Fittings
- 4 Hose Clamps
- 90 degree fitting
- 4 M6x16 SEMS Bolts
- M6x25 Hex Bolt
- Nut
- Flat Washer
- Spring Washer
- 2 Self-Tapping Hex Screws
- 6 300mm Cable Ties
- Instructions

1. Remove front grille to expose condenser area. **(Pic 1)**
2. Remove bottom bash plate. **(Pic 2)**



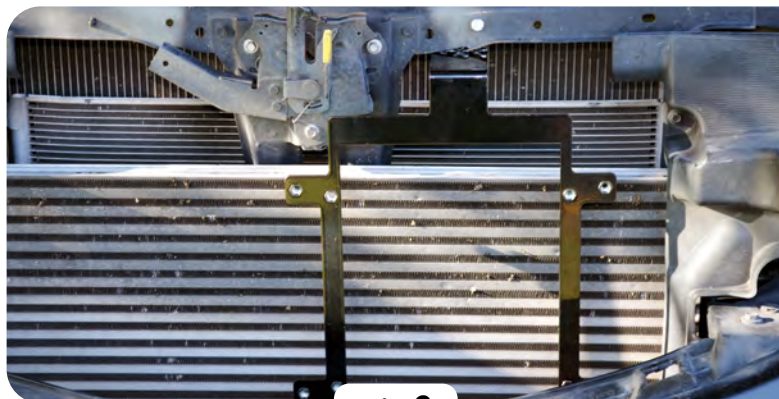
**Pic 1**



**Pic 2**

3. Mount bracket using righthand slotted hole and M6x25 bolt onto radiator support as illustrated. The cooler does not have to be mounted at this stage. **(Pic 3)**

Some models may be fitted with power steering lines in this position. Take care when sliding bottom of the bracket over or under these pipes, they do flex so installation should not be prohibited. Foam pads provided in these kits should be placed between the bottom section of the bracket and these lines. **(Pic 4)**



**Pic 3**

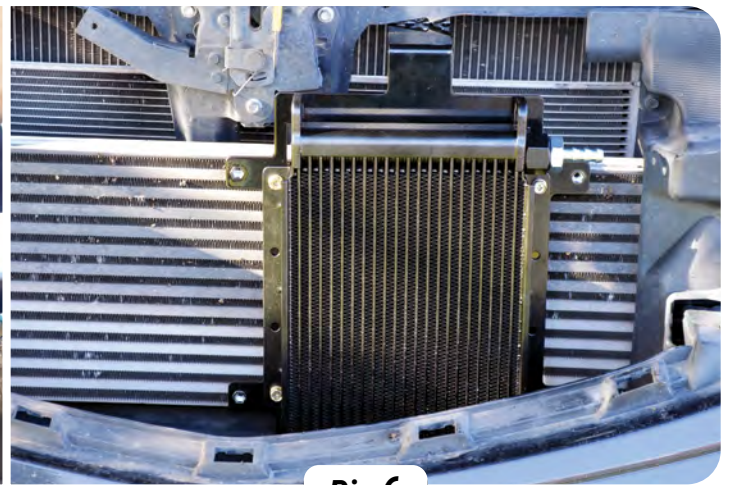


**Pic 4**

4. Mount bottom side of the bracket as shown on **Pic 5**. Slide till the tip of bracket reaches lip. Using self-tapping hex screws provided secure the bracket to this point.
5. Now install your fittings to the cooler using two spanners, then mount the cooler to the bracket using M6x16 bolts as shown with fittings facing the passenger's side of the car. (**Pic 6**)



**Pic 5**



**Pic 6**

6. Remove front bolts from the front driveshaft and let shaft sit down to expose heat exchanger.

7. Remove heat 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 7)**



**Pic 7**



**Pic 8**

8. Loop heater hose from the engine to heat exchanger with 90-degree fitting supplied **(Pic 8)**. Secure with hose clamps. \* Hose clamps not provided use clamps of your choice.

Alternatively, you can loop existing hoses - see steps 9 and 10. **(Pic 9)**



**Pic 9**

9. Remove short hose from the cooling system.
10. 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. \* These hose clamps are not provided.
11. Fit O-Rings to Heat exchanger fitting **(Pic 10)**. Refit to case using existing mounting bracket **(Pic 7)** (do not completely tighten the bracket at this point).



**Pic 10**

12. Fit new rubber hose supplied to the case fitting pipe, use hose clamps to secure.
13. Feed rubber lines through to cooler and push onto fittings. Secure with hose clamps. Using cable ties secure the hose to the vehicle.
14. Start vehicle and check for oil leaks and top up transmission oil (to manufacturer's specification).
15. Check engine coolant level and top up if required.
16. Road test vehicle and recheck above.
17. Replace all covers and ensure no rubbing on hoses and pipes.