

# COOLMASTER *OFFROAD*

## Fitting Instructions

Part Nº **49492K**



### Kit contains:

- High Flow Heavy Duty Cooler
- Cooler Bracket
- 2 x Cooler Fittings
- 2 x Transmission Fittings
- 2 x 90 degree Fitting 3/4
- P-Clamp
- Cooler support Bracket
- 2 x Steel Cooler Lines
- 2.5m Hose
- 8 x Hose Clamps
- Foam Pads
- 19mm Heater Hose, 70mm long
- Fitting Kit
- Instructions

1. Remove undertrays, radiator support cover, and grille as shown in **Pic 1** and **Pic 2**



**Pic 1**



**Pic 2**

2. Mount the cooler bracket to the radiator support center brace using existing threaded inserts. (**Pic 3** and **Pic 4**)



**Pic 3**



**Pic 4**



**Pic 5**

3. Add stick-on foam pads to the lower section of the support panel. (**Pic 5**)
4. Remove bolts from the front driveshaft coupling. This allows easier access to the transmission heat exchanger and cover. (**Pic 6**)



**Pic 6**



**Pic 7**



**Pic 8**

5. Clamp the coolant lines to the exchanger and remove the exchanger from the transmission as shown in **Pic 7**.
6. Use the 2 x 90-degree coolant fittings and  $\frac{3}{4}$  hose and 4 clamps to make a coolant flow return. (**Pic 8**)
7. Fit the supplied 6R80 cooler fittings to the transmission using the original securing bracket. Leave them loose to allow easy fitment of the steel pipes. (**Pic 9**)
8. Fit the steel pipes into place and leave them loose. (**Pic 10**)



**Pic 9**



**Pic 10**



**Pic 11**

9. The pipes have a securing bracket that mounts to one of the unused threaded holes in the block. Use the supplied clamp to secure the steel lines to the bracket. (**Pic 11**)
10. After both lines are fitted and secured in the P clamp, ensure enough clearance around the bell housing and steering rack. Use split rubber hose around pipes if needed to stop rubbing or vibration. (**Pic 12** and **Pic 13**)



**Pic 12**



**Pic 13**

11. Tighten the bracket securing the fittings in transmission and then tighten the pipes in the fittings. **(Pic 10)**
12. Fit the 2 fittings to the cooler as shown in **Pic 14** using 2 spanners so as not to damage the cooler. Do this on a bench before mounting the cooler.



**Pic 14**

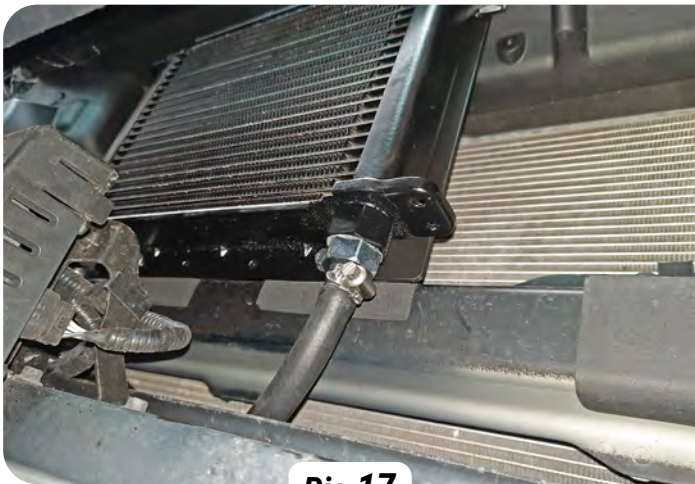


**Pic 15**



**Pic 16**

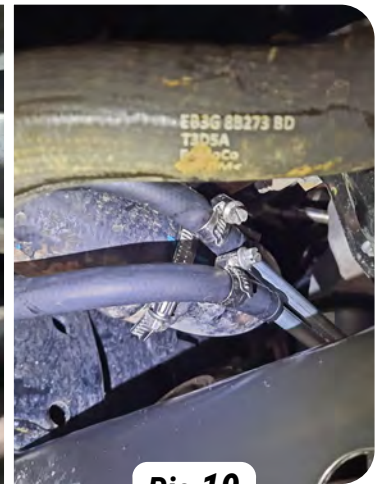
13. Cut the supplied 3/8 hose in half, fit the conduit over the hose and feed the hose through the side of the right handside of the radiator and chassis. **(Pic 15 and Pic 16)**
14. Mount the cooler to the bracket and attach the rubber lines with the clamps supplied. Ensure the conduit is located where the hose runs through tight areas.



**Pic 17**



**Pic 18**



**Pic 19**

15. Recheck all fittings are tightened, and all clamps tightened.
16. Top up the cooling system and transmission fluid as required as per manufacturer specifications.
17. Run vehicle and re-inspect all fittings for any leaks.