

# AIRTEC Motorsport Land Rover Defender 300 Front Mounted Intercooler Fitting Instructions:

## Tools needed:

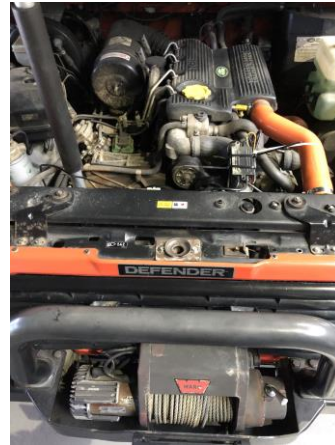
- *Philips screwdriver*
- *Jubilee flexidriver*
- *Socket set*
- *Allen key set*
- *10mm and 13mm spanner*
- Protective equipment is recommended such as gloves, eyewear and footwear

## Kit includes:

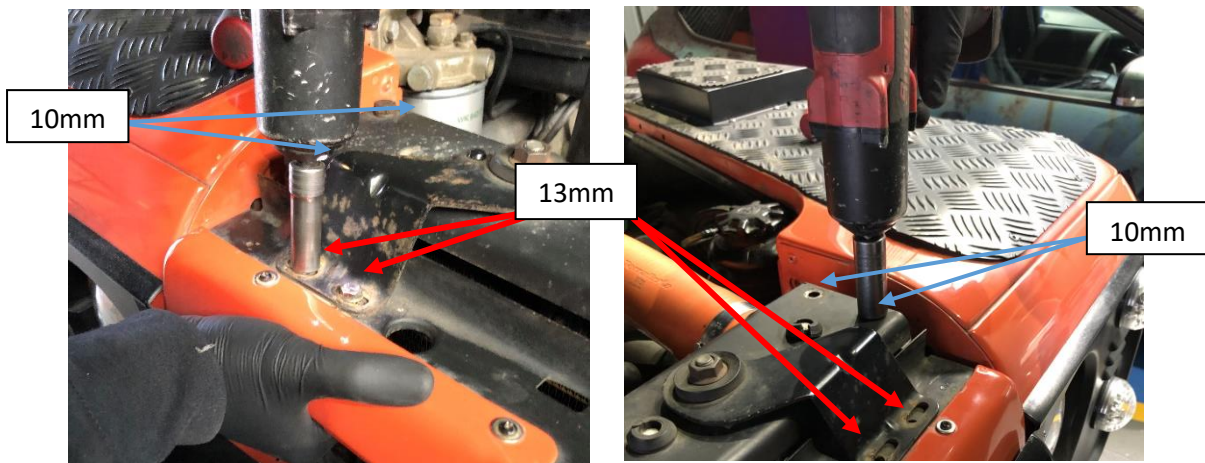
- *Intercooler*
- *2 x brackets*
- *4 x M6 x 16mm socket head cap bolts*
- *4 x M6 penny washers*
- *2 x M6 x 25mm socket head cap bolts*
- *2 x M6 pan washers*



1. Open and support bonnet.



2. Remove the front grill by undoing the 6 x self-tapping screws and set aside.
3. Remove the plate on top of the radiator and intercooler by undoing the 4 x 10mm bolts (there is a nut on the underside) and 4 x 13mm bolts. Once undone the surround can be lifted off and out.



4. Remove hoses attached to original intercooler, you may need to remove a P-clip bolted to the right hand arch in order to remove the original hose from the intercooler.



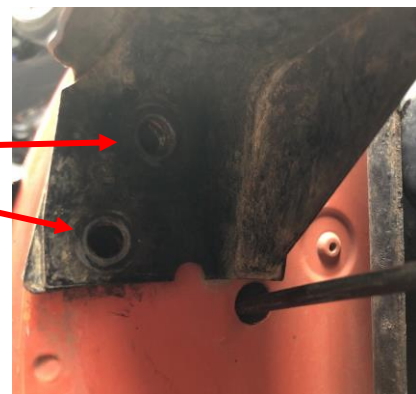
5. The intercooler can now be removed by pulling it upwards and out from its mounts



6. The front grille surround can now be removed, this is done by removing the 4 x Philips screws along the top and the 2 x 13mm on the inside. (one each side)



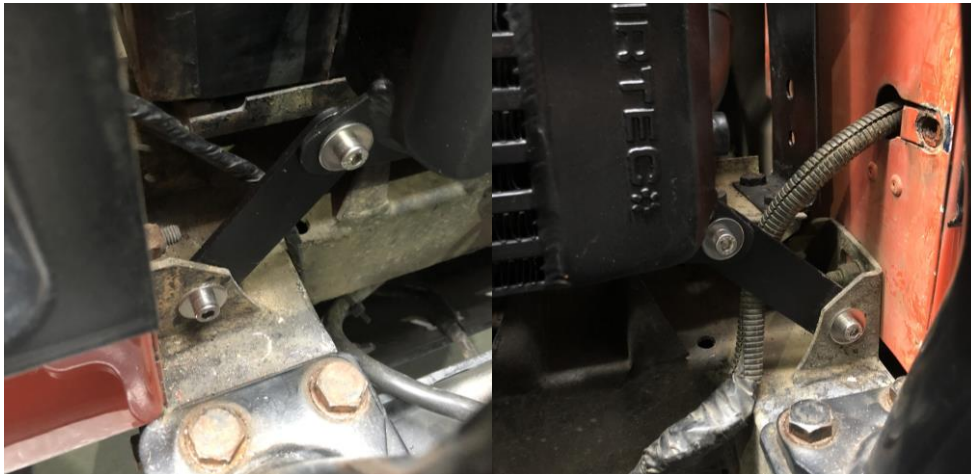
7. Remove the bonnet latch support panel including the cross brace by undoing 4 x 13mm on the side of the chassis and the 2 bolts holding the lower brace in. Picture of left hand side shown.



8. The grill surround will need to be trimmed before it can be refitted, along the bottom edge there is a lip folded inwards. This will need to be cut back in order to stop it fouling against the intercooler. Once trimmed it is advisable to either seal the cut edge by cleaning and painting it or by cleaning it and fitting a rubber weather strip, this should help to prevent it rusting.



9. Fit the brackets provided to the bottom tabs on the intercoolers using 2 x M6 x 16mm cap head bolts and penny washers provided and tighten so that they can still be moved, take intercooler to the car and with a second person get them to attach the brackets to the mounts on the car using the other 2 x M6 x 16mm cap head bolts and penny washers provided. Tighten these so that they take the weight of the intercooler however it can still be adjusted so that the top holes can be lined up in the next step.



10. Place the bonnet latch support back on the vehicle and using 1 x M6 x 25mm cap head bolt and washer tighten the panel to the intercooler on the right hand side. Refit the 4 x 13mm bolts removed earlier and then intercooler will then sit in place, the bottom brackets can now be fully tightened.



11. Fit the boost pipes back on to the intercooler and refit P-clip if removed.
12. Refit the now trimmed grill surround back into place using the original fixings
13. Refit the plate that sits on top of the radiator using the original bolts for the right hand side and on the left hand side use 1 of the original bolts and then the remaining M6 x 25mm cap head bolt and washer to attach the intercooler to the surround on the left hand side as pictured.



14. Check all fittings are tight and then close the bonnet down. Now you can enjoy the look of your new AIRTEC front mounted intercooler.

