



**AIR CONDITIONING KIT
INSTALLATION INSTRUCTIONS
FOR LAND ROVER DEFENDER 300Tdi**





T H E S P E C I A L I S T S I N L A N D R O V E R S • U S A

Air Conditioning Kit for Defender 90/110 300 Tdi, 2.5L

Vehicle Preparation:

- 1) Disconnect battery
- 2) Remove the front grill & grill surround and retain parts
- 3) Remove & retain 'A' frame assembly
- 4) Remove bonnet 'slam panel' screws from both wings

Interior:

- 1) Remove speakers from vehicle fascia, retain all parts.
- 2) Remove fuse box cover
- 3) Locate the brown seven way connector in the area of the fuse carrier brackets
- 4) Remove the blank connector from the connector unit
- 5) The evaporator fascia assembly is fitted exactly as Land Rover line fit. Drill out two outer speaker fixing holes (RHD &LHD) to 7mm dia.
- 6) Fit two 90-degree brackets & weld nut assemblies to the drilled out speaker holes. Remove the bulkhead grommet & drain tube grommet from the vehicle fire wall & transmission tunnel.
- 7) Fit the a/c grommet & drain tube grommet to the vehicle.
- 8) Locate the oval firewall grommet on either the RHS or the LHS of the fuse box and cut to allow the white connector on the under bonnet wiring harness to pass through.

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Evaporator Installation:

- 1) Lift the fascia assembly into position on the vehicle pressing the round a/c pipe manifold block into the firewall grommet (lubricate if necessary)
- 2) The 90-degree brackets fitted to the speaker apertures will fit inside the fascia molding.
- 3) Centralise the fascia and using the center fixing screw hole as a location, drill a 5.5mm hole into the vehicle dashboard. Fix the dashboard using the long self-tapping screw supplied in the kit.
- 4) Drill 3mm holes through the holes in either side of mounting into the 90-degree bracket. Fix with self-tapping screws supplied in the kit.
- 5) Refit the speakers to the a/c fascia.
- 6) Connect the 3 way electrical harness (2 x brown 7 way connectors and 1 x white 4-way connector) to the fuse box connector block and the fascia connector block.
- 7) If vehicle is not equipped with 7 way brown connector, wire as follows
 1. Connect an ignition feed onto white and green wire
 2. Connect a 30A main feed onto brown wire
 3. Connect an earth onto blue and black wire.
- 8) From engine side push the white 4-way connector from the engine bay harness through the oval grommet previously cut. Connect the engine bay harness to the connector block on the 3-way harness.
- 9) Refit the fuse box.
- 10) Fit evaporator drain tube to evaporator and through firewall grommet.

Compressor & Engine Dress:

- 1) Fit Idler pulley to engine timing chest cover using M10 x 30 bolt spacer washer and spring washer.
- 2) Remove cover plate or engine timing chest cover and fit belt tensioner using M8 x 30 bolts, flat & spring washers
- 3) Fit mounting bracket to engine using four M10 x 35 bolts and spring washers.

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- 4) Fit compressor onto bracket and secure with two cap head bolts.
- 5) Fit and adjust drive belt.

Receiver/Drier Fitting:

On RHD vehicles, remove power steering oil bottle from its fix point to the RH wing (viewed from front of the vehicle) fit the receiver drier and bracket in available holes and re-fit the power steering bottle to the holes available in the receiver / drier bracket.

On LHD vehicles, fit the receiver / drier to the holes available in the LH chassis rail.

Condenser Fan Assembly:

The condenser fan is pre assembled in a frame that fits at the bottom to the 'A' bar fixing points on the chassis rail and to slam panel fix points on both wings.

Re-fit the 'A' bars over the condenser fan assembly

Pipes & Hoses:

- 1) Fit pipes and hoses to connection parts leaving protective covers in place as long as possible.
- 2) Fixing brackets should be installed in available locations.

Under Bonnet Electrical Harness:

- 1) Lay harness over the engine and plug into condenser fan and compressor. The compressor plug assembly locates onto the tabs on the compressor guard.
- 2) Ensure that the wiring harness is clear of any heat / damage sources and tie wrap in position.
- 3) Re-fit removed components from the vehicle.
- 4) Fit a/c charge label to the bonnet slam panel.
- 5) Charge the vehicle a/c system with 700gm +/-25gm of R134a refrigerant gas.

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THANK YOU!

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