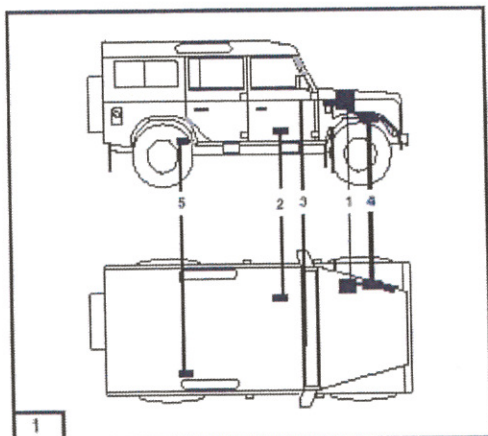


WATER HEATER THERMO TOP C



INSTALLATION GUIDELINES

LANDROVER DEFENDER Td5

LEGEND

1. WEBASTO PARKING HEATER
2. FUSEBOX & RELAY
3. TIMER
4. EXHAUST SYSTEM
5. FUEL PUMP

SPECIAL TOOLS REQUIRED

USE THIS INSTRUCTION IN CONJUNCTION
WITH THE UNIVERSAL INSTALLATION
GUIDELINES BOOKLET SUPPLIED

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Comfort Heater Kit Numbers

- | | | |
|----|--|--------|
| 1. | Thermo Top C Diesel c/w Timer | 89244A |
| 2. | Tele Thermo Top C Diesel c/w T70 Remote | 67087A |
| 3. | Thermo Top C c/w T70 Remote & Timer | SK545 |
| 4. | Installation Kit - Purchase of L/R Part No. JEI100030 required | SK629 |

Option:

- | | | |
|----|--|--------|
| 1. | Summer/Winter Switch—use with Digital
Timer Kit Only—Gives ventilation option | 84587A |
|----|--|--------|

FORWORD

These installation instructions are not binding

Test installation was carried out on Td5 Defender Model Year 2001 and installed, fitted with a Webasto Thermo Top C Fuel Burning Heater

GENERAL HINTS

If it is necessary to drill the bodywork, ensure that the bare metal is protected against corrosion. Hoses and cables should be secured with cable ties or suitable clips and protected against cutting with sharp edges and ensure that the hoses are clamped off to avoid losing coolant or fuel. All dimensions in mm unless declared.

When cutting fuel or coolant hoses, use a sharp blade to prevent jagged edges.

CAUTION

If the battery is to be disconnected, ensure that all the relevant security codes (Radio and Alarm) and the resetting procedures are to hand.

The heater must not be operated in closed rooms such as garages and workshops without suitable fume extraction facilities.

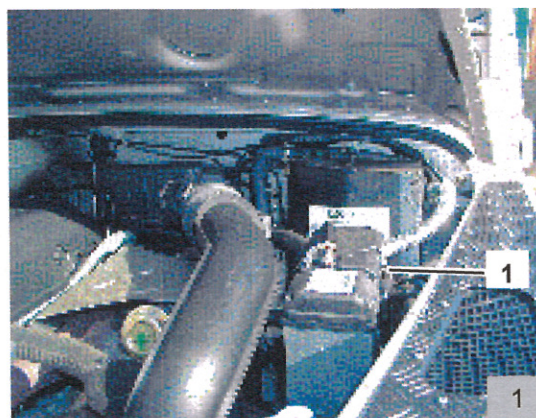
The heater must be switched off at service stations and fuel tank installations.

Before working on any part of the coolant system, ensure that the system pressure is released and cooled.

Refer to workshop manual with regard to Airbag safety requirement

HEATER MOUNTING POSITION

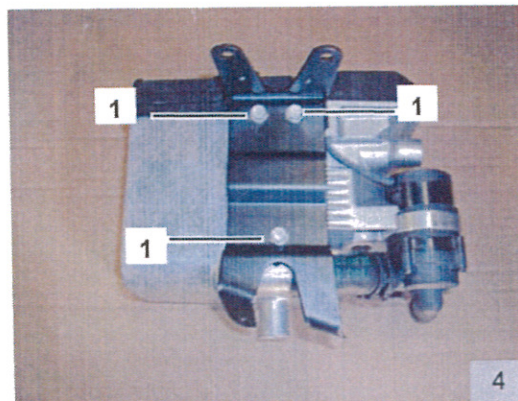
The heater (1/1) is installed underneath the vehicle in an under floor area under the passenger seat. The heater is mounted horizontally with the exhaust exit directed downwards.



Bend the heater mounting bracket. Refer to template (back page).



Mount the bracket to the heater
Note: 3 Self Tap Tite Screws (4/1)



Position the heater assembly on the wing support bracket.

Check for clearance at (A). (Bottom of heat exchanger to inner wing) and check exhaust stub has clearance to inner wing.

Check for clearance at (B). (Air inlet pipe to the heater). The pipe can be adjusted by loosening the hose clips and twisting as required.

Drill the top of bracket and use 2 x hex head self tap screws & washers (5/1) These are new 5mm holes.

The heater is then removed

The bracket only, is mounted with the top holes (5/1), and the bottom mounting point is marked and drilled with a 6.5mm hole.

Space off with washers as required.

Fit bolt head from underside (M6 x 20 & Flat washer)

Cut the exhaust 550mm long (Fig 8) at the opposite end to the end cap. Check that it fits the silencer and the heater.

Place the exhaust pipe onto the heater and bend at sharpest 90° possible and fit clamp.

Remount the heater on the bracket.

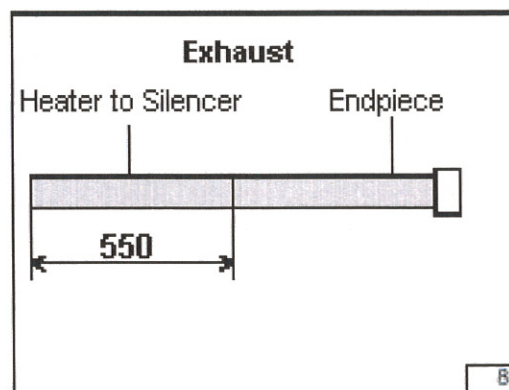
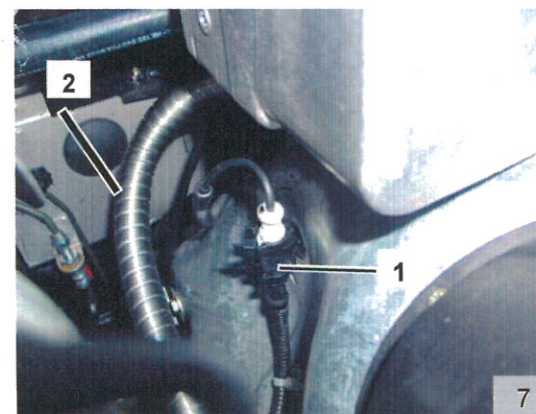
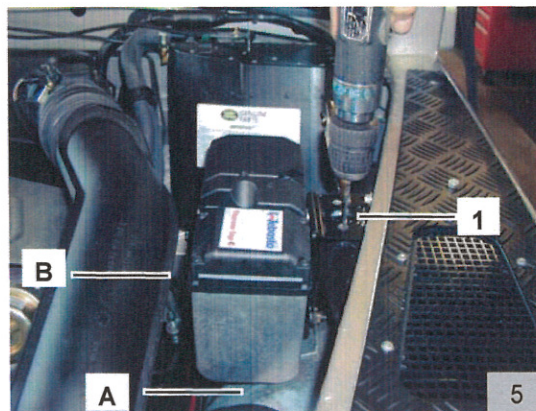
Refit the heater and route the exhaust as shown (7/2) and make sure it is clear and does not foul any cables or pipes.

Cable tie ABS plug to stop the cable slipping out onto the exhaust (7/1)

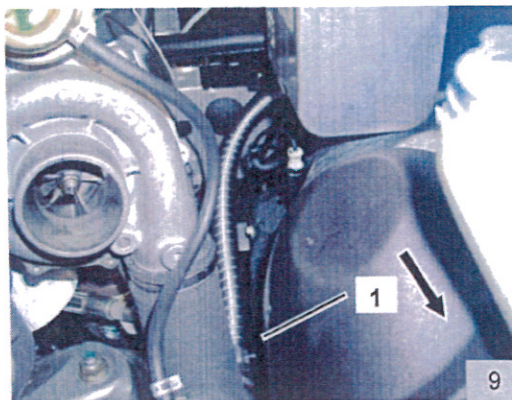
Bolt the heater assembly to the wing and the wing bracket.

When all is mounted check for clearance (5/A & 6/1). Adjust the bracket or spacer washers as necessary.

Check the clearances afore mentioned.



Route of the exhaust pipe to the silencer (9/1)

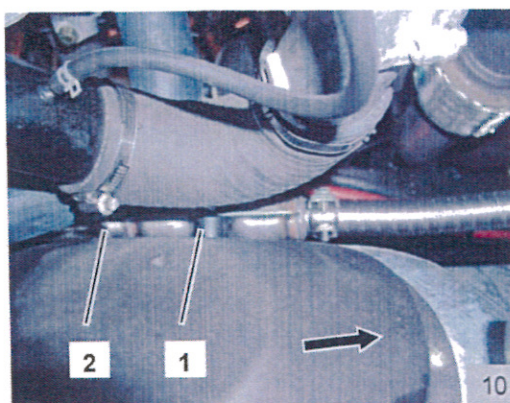


Fit the spacer between the exhaust silencer and the inner wing (10/1). Use the existing hole.

From the wheel arch side in the inner wing fit the bolt (M40 x 6) with head from the wheel arch side of the wing.

Check for clearance, especially if the cables for a winch system are installed.

Angle the silencer slightly to clear the coolant hose (10/2)

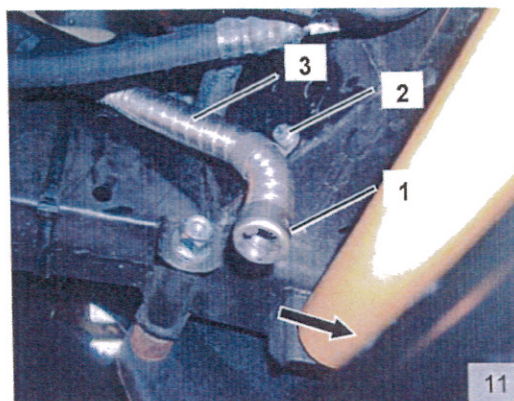


Use the existing exhaust pipe length. This fits from the silencer and is routed forwards to exit at the front inner corner of the chassis (11/1).

Fit a M6 nutsert in the existing hole (11/2) for the exhaust P Clip or drill a new hole and use a self tapping screw..

The exhaust should exit downwards.

NB Bend the exhaust at (11/3) to ensure clearance on the hose above.



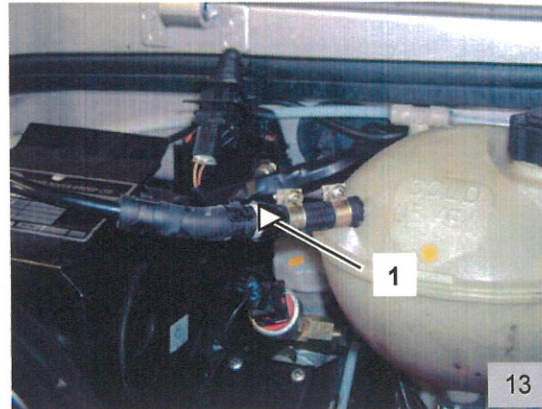
If a nutsert tool is not available, the nutsert can be installed using a nut c/w two spanners. Ensure that the nut sert is held into the hole at all times during tightening of the nut. The bolt head is held and the nut is tightened down.



Fit the valve (13/1) into the expansion tank return pipe.

Note : Arrow ▷ on valve points to the tank.

Shorten the pipe as required.



Valve Installed



Identify the coolant hose.
Engine coolant flow out (15/1). This is connected to the metal pipe that runs alongside the rocker cover.

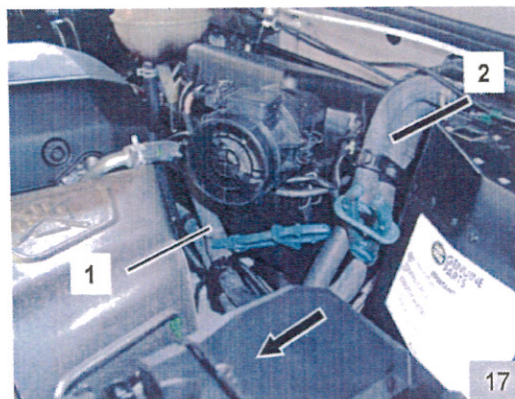


Clamp the engine out coolant hose (16/1) at two points. This section will be removed in between the clamps.



Cut the hose (17/1) at the point where the hose straightens after a bend.

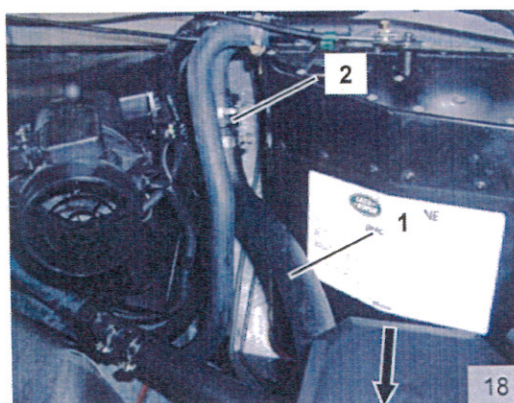
Cut the hose (17/2) as shown in Figure 20 which is connected to the heater matrix.



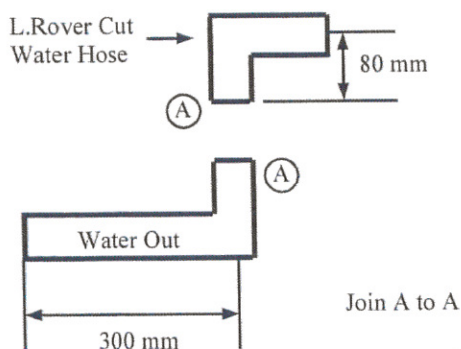
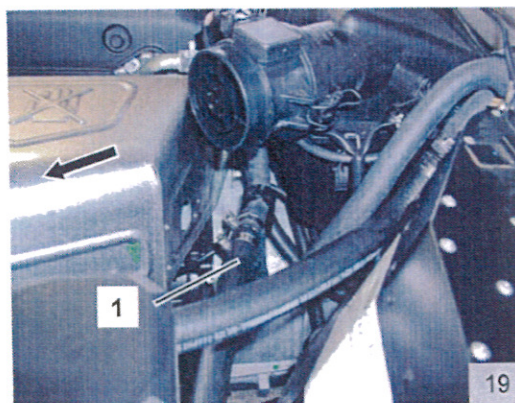
Hose (18/1) is cut from the 20mm hose supplied.

The approximate length is 300mm (see 21/1)

The straight leg connects to the heater outlet pipe and the elbow is joined to the existing L/R hose at (18/2).



Cut a straight length (19/1) approximately 250mm long to join from the engine out to the Webasto heater water pump inlet hose. (See 21/2)



20

