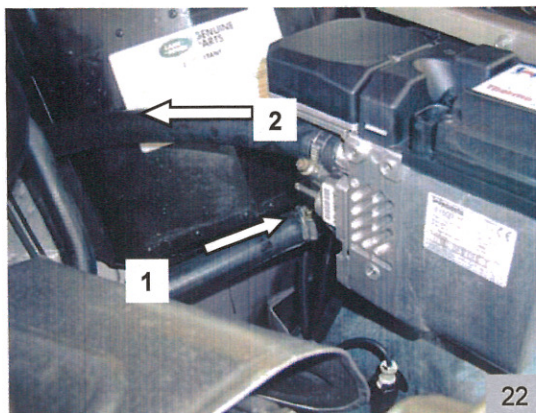


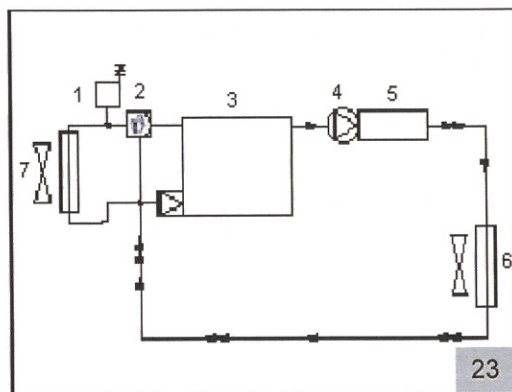
(22/1) = Water in from the engine to the Webasto water pump.

(22/2) = Coolant out from the Webasto heater and into the vehicle heater matrix .

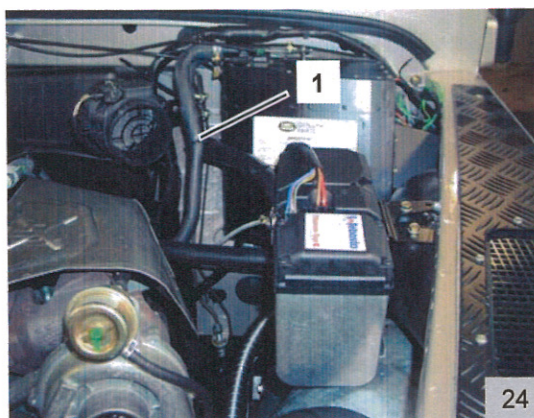
The system uses an Inline circuit



1. Expansion Tank
2. Thermostat
3. Engine
4. Webasto Water Pump
5. Webasto Heater
6. Vehicle Cabin Heater
7. Radiator



Coolant hoses fitted—Cable Tie hoses together at (24/1)

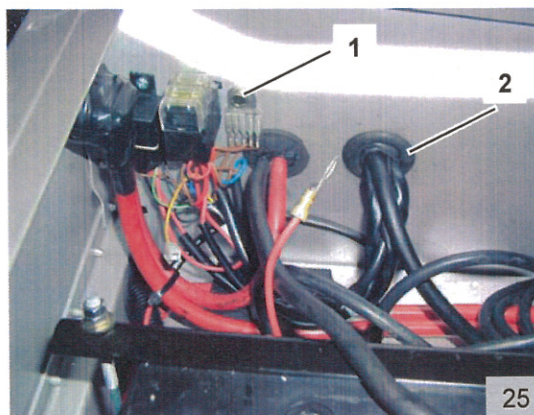


Install the fuse box assembly into the battery box.

Ensure that there is a good -ve earth connection at (25/1)

- Exit the:-
- Heater cable
 - Fuel pump cable
 - Timer cable
 - Fan integration cable

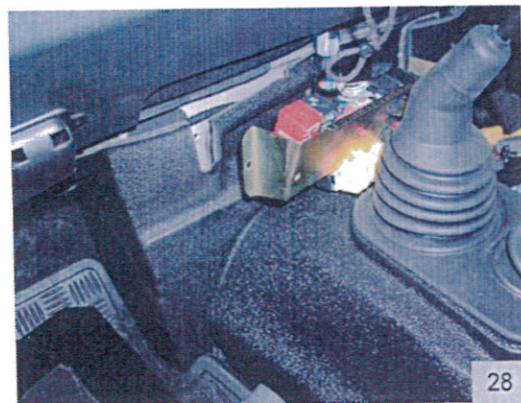
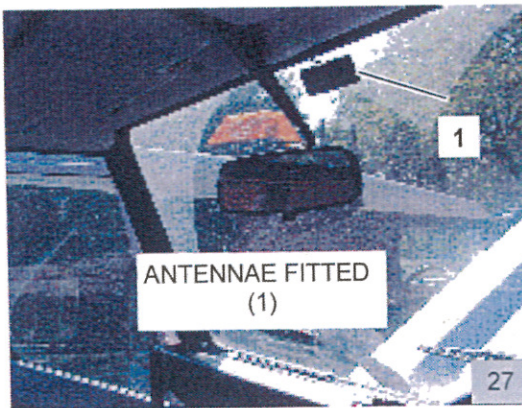
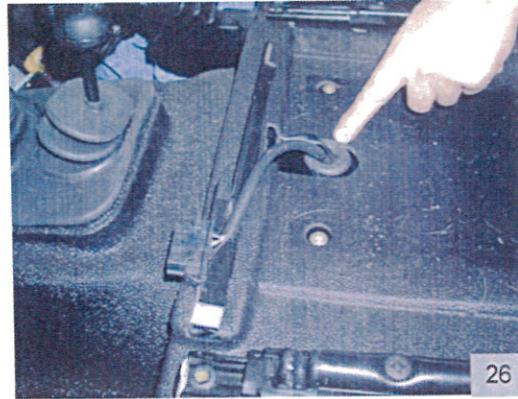
Through the original grommet at point (25/2)
See Page 15 for cable layout



Bring the timer cable with the 4-way plug up through the existing floor plate. Route under the carpet and bring into the dashboard area, to the mounting position chosen for the timer or remote system.

Alternatively, it can be routed through the engine bay, across to the drivers side and through the bulkhead grommet and into the interior of the vehicle.

The remote receiver and timer can be mounted as required in conjunction with the installation.

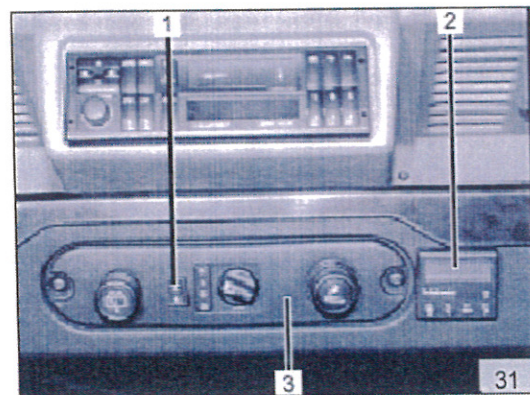


T70 receiver position chosen (29/1). Behind the wiper motor which is hidden by the removable dashboard panel,

Refer to the T70 installation manual supplied with the remote kit for installation details, note the section regarding connection for the summer/winter function.

The antenna pad is positioned on the screen (Clean before applying the pad). The cable is routed down the inner pillar trim.

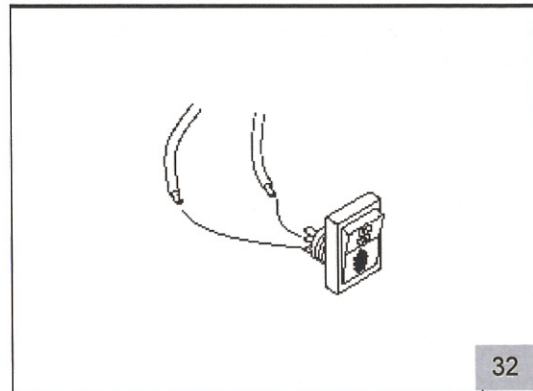
The timer can be installed in a suitable location as per the customer's requirement and cable lengths available. Programme the timer as shown in the enclosed handbook.



SUMMER/WINTER SWITCH (OPTIONAL)

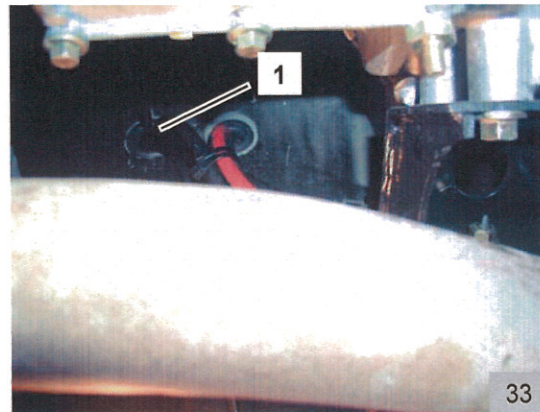
This is an optional extra to use with the Timer. It is not required with the T70 remote control.

Drill a 12mm hole for the switch in a suitable position. Select a suitable position for the switch. Check the cables reach the chosen position. Check that the trim thickness does not exceed the thread length of the switch. Install the switch and connect the purple and brown cables to the pin positions as shown.



32

The heater harness cables (33/1) exits through the battery box. Follow the existing cables to the relevant locations. (See page 15)

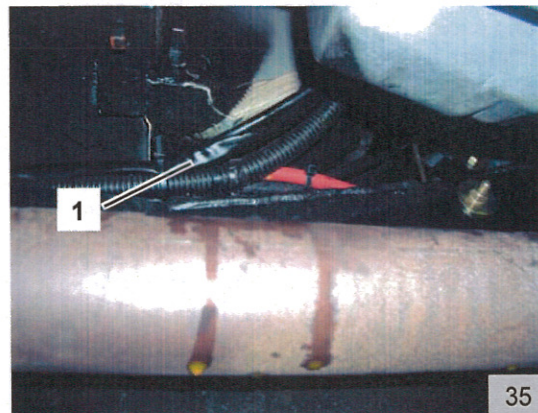


33



34

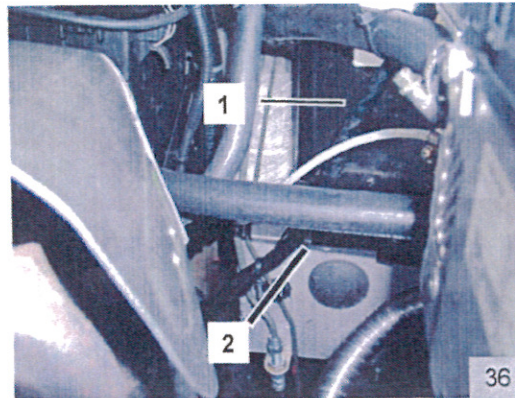
The heater and fan integration cables (34/1) (35/1) follow up the footwell to the Thermo Top heater and cabin heater fan box.



35

The Heater cable (36/1) is clipped to the brake pipe and routed to the Webasto heater.

The fan integration cables follow under the channel of the blower box (36/2) and into the cables down the side of the motor. See figure 34.



Fan Integration

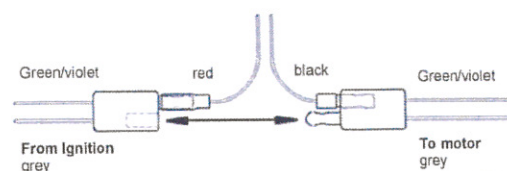
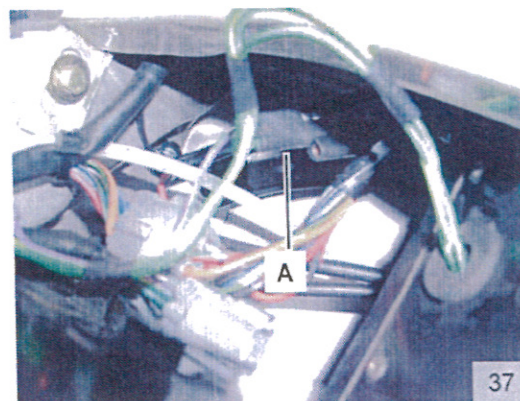
Locate the 2-way cabin heater motor plug and the green/violet cable of this plug.

Disconnect the plug, rotate and reconnect it so the green/violet cables of the plug are disconnected and the grey cables are connected. This will leave a male and female green/violet connection free.

Connect the Webasto red 2.5mm² cable with the female bullet into the green/violet (ignition feed) and connect to the male bullet of the 2-way plug.

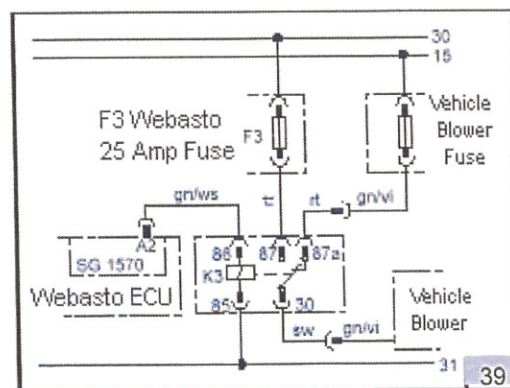
Connect the Webasto black 2.5mm² cable with the male bullet to the green/violet female (goes to the blower motor)

The alternative is to cut the cable at the grey plug, visible at the side of the wing.



38

- gr = grey
- rt = Red
- sw = Black
- gn/vi = Green/violet
- gn/ws = Green/white
- 30 = 12 Volt Positive
- 31 = 12 Volt Negative
- 15 = Ignition Feed

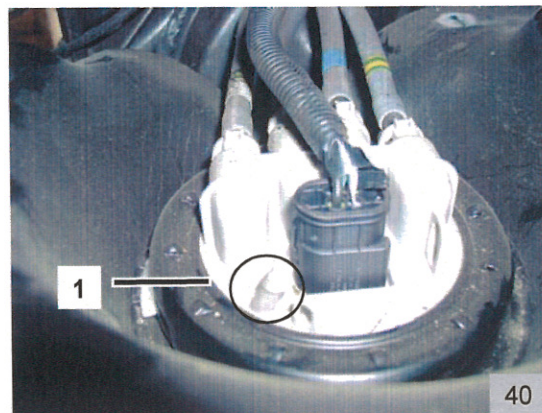


39

Fuel

Drop the fuel tank to gain access to the fuel sender.

Cut off the tip on the fuel sender (40/1). You can feel a small ridge at the top of the stub. This leaves a small hole.



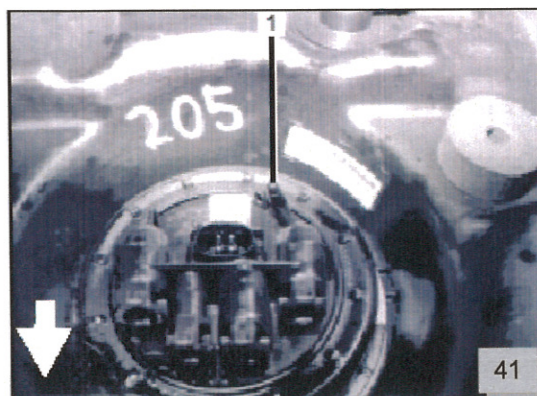
Insert the black suction pipe into the hole.

Fit the elbow pipe over the stub and secure with 12mm hose clip (42/1)

Route the pipe along existing pipes

Refit the tank

Pipe end (42/2) should be accessible to connect to the pump when the tank is remounted.

**LandRover 90**

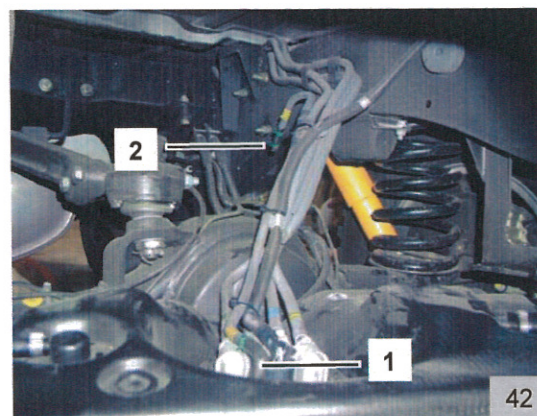
Mount the fuel pump (43/1) - Note the arrow on the pump. This is the direction of the fuel flow.

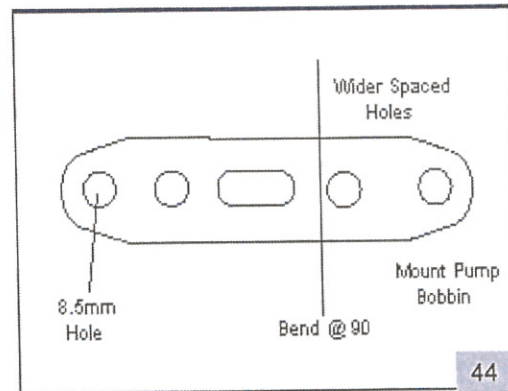
Bend the bracket and use the existing mounting position. Bend the flat strip to form a 90° bracket. See Figure 44.

Use the rubber bobbin and mount the pump horizontal.

Other Models

Check the pump body has sufficient clearance from the rear axle parts if the bump limit stops are reached. If necessary use the 90 degree angle bracket and extend with flat strip supplied to enable the dosing pump to be mounted higher.





Pump Mounted

Note: The pump is mounted horizontally.



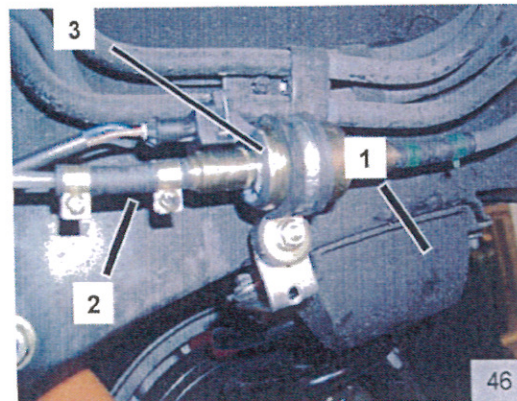
Connect the fuel inlet (46/1). This is the pipe from the tank sender.

Connect the white nylon fuel pipe to the pump outlet (46/2)

Route the fuel pipe along the chassis to the drivers toe box following existing fuel lines.

Follow up the brake pipes into the engine bay.

Connect the fuel pump plug (Twin core blue & brown). The electrical contacts can be connected either way round.



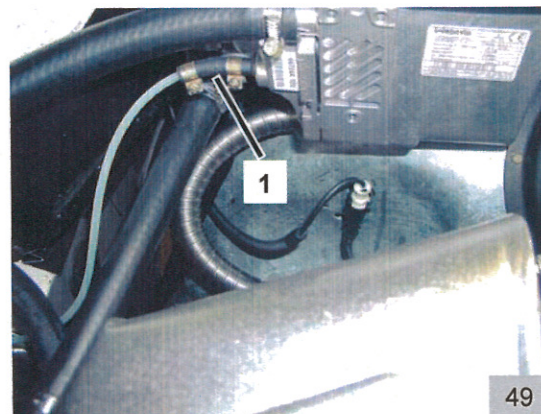


Follow the existing brake pipes within the engine Bay (47/1) over to the heater side of the engine bay.

Route and cable tie the fuel pipe all the way to the heater.



Connect the fuel pipe to the heater (49/1)
Top up the coolant to the correct level and strength. Run the engine to circulate coolant and bleed all the air out.



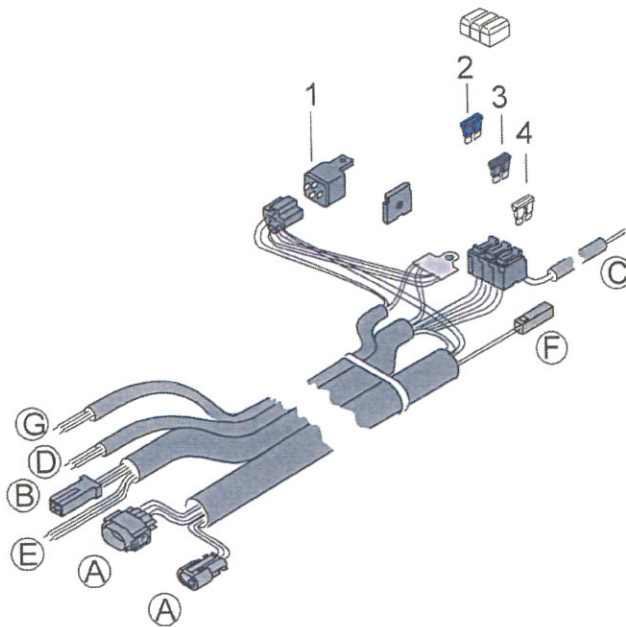
Switching on the Webasto Unit

Set the blower controls to:-

1. Maximum Heat
2. Screen & Floor
3. Fan speed 1 or 2

Switch the Webasto Heater on

Thermo Top C



- A) Heater 6 way & 2 way plugs
- B) Digital timer 4 way plug
- C) Battery Red 2.5mm²
- D) Vehicle fan Red & Black Cable
- E) Summer/Winter switch Purple & Brown
- F) Diagnostic connecto Yellow
- G) Metering pump 2 core Brown & Blue Cable

- 1 Changeover relay 12 V
- 2 Flat fuse 15 A
- 3 Flat fuse 1 A
- 4 Flat fuse 25 A

Wiring harness

- A & D = Follow the existing harnesses towards the front of the vehicles and up to the cabin heater and Webasto heater.
- B = Route up to the grommet in the gearbox cover plate (See 26)
- C = Cut to length, crimp on the ring terminal and connect to the battery positive.
- E = Route with B the purple and brown cables adjacent to the 4 way timer plug. When the purple and brown are connected together via switch or purple to negative via T70, the heater operates in Summer mode, which gives cabin fan operation only (ventilation).
- F = Diagnostic connector—Stay with hose assembly. Used for PC diagnostics.
- G = Dosing pump cable follows existing cables rearwards and over the chassis cross member to the dosing pump. Cable is cut to length and waterproof connectors are fitted. Pin position is not critical (not polarity conscious)

Heater Bracket Bending Template

