



# RANGE ROVER VEHICLE BLOCK HEATER KIT NO. PRC 9674

Heater consists of one PRC8716 heater and one PRC8717 cable assembly.

## Heater Element Installation

1. Drain the engine coolant as described in the Service Manual. Ensure that engine coolant and exhaust are cool prior to draining.
2. Remove the center, left hand side core plug from the engine block. Difficulty may be encountered in removing the core plug since it is glued into position.
  - a) Using a hammer and punch, drive the plug into the engine block and cause it to pivot crosswise in the hole.
  - b) Taking care not to damage the block, carefully remove the plug with pliers.
3. Clean the core plug hole of any dirt.
4. Loosen the heater element locking screw, lubricate the o-ring with coolant, and insert the heater with the element loop to the bottom and the connector up. Tighten the screw to a torque of 14 - 19 lbs (2 Nm).
5. Fill the cooling system as follows:
  - a) Raise the front of the vehicle approximately 12 inches (30.5 cm).
  - b) Remove radiator filler cap.
  - c) Add coolant (50/50 mixture) to the radiator until full.
  - d) Start the engine and operate at 1500-2000 r.p.m. until steps e & f have been completed.
  - e) Add coolant mixture as required until all air has been removed from the system. This will take 10 to 15 mins. depending on ambient temp.
  - f) Replace radiator filler plug and return engine to idle.
  - g) Add coolant mixture to the expansion tank to at least 1 inch (2.5 cm) above the level plate.
  - h) Replace the pressure cap and test drive the vehicle. Check for leaks.
  - i) Once the vehicle has cooled, recheck the expansion tank level and top up as required.

## HEATER CABLE LINE ROUTING

1. Route the cable from the heater down to the lower transmission cooler pipe, leave some slack and cable tie to the pipe. Route the cable forward along this pipe and cable tie just before the pipe connector. Pass the cable forward and cable tie low down on the P.A.S. reservoir pipe. The cable is then routed up the left side of the radiator so that the mains plug passes between the radiator and the radiator bracket. Attach clip AFU 1090 to the cable at the end of corrugated tubing and locate the clip in the hole in the bonnet locking panel near the top of the radiator bracket. Undo the radiator bracket bolt and position bracket PRC9408 inside the radiator bracket. Refit the bolt.
2. Install the plug protector on the cable and insert into bracket PRC9408 cable end first. The excess cable should be looped and cable tied with re-usable cable tie No. 13H9704.
3. After making sure coolant system has been refilled as previously described, plug 110 Volt AC into receptacle and check for proper operation of block heater.

**CAUTION: Never plug in the block heater unless the element is fully immersed in coolant.**

### Conventional engines (4,6,V6,V8)

