Installation notes for:- LOTUS ELAN TURBO SE.

The installation is in two parts. The first task is to wire the BBR Module into the wiring loom near the Boost Sensor. The aim is to fit the Module between the Sensor and the vehicle Computer to modify the boost signal.

1 Ensure that the Ignition is off. Locate the Boost Sensor, it is fitted on the rear bulkhead behind the Engine just to the right of centre behind the Wiper linkage. It has a small bore rubber pipe and a three pin electrical connector.

2 Pull off the rubber pipe, undo the connector and remove the sensor from the vehicle.

3 Working on the Sensor loom, look at the electrical connector and you will see the letters A,B,C, on it. These correspond to the letters on the wiring diagram. Check that the wire colours match the diagram, if not then amend the diagram to avoid confusion. Remove approx 5" (12cm) of loom insulation to reveal the wires.

4 Cut through all three wires approx 2" (5 cm) from the connector. Fit the MALE connectors to the electrical connector side.

5 Fit the FEMALE connectors to the Sensor side.

6 NOTE Space is limited and a good connection is essential. If you are not 100% happy with the crimp, then re-do it. Extra connectors are supplied for this reason.
The wiring of the Module has been designed to make removal of the Module and reinstatement of the standard wiring easy.
Before inserting the connectors into their respective plugs/sockets ensure that the wire colours match.

7 Refit the Boost Sensor to the vehicle. Refit the boost pipe and temporarily connect the Module, and start the car.
If the car will not start or does not run smoothly, stop the Engine, remove the Module and reinstate the wires to the Sensor. Start the engine; if the fault persists, there must be a faulty connection. If the engine runs correctly, contact BBR for advice.

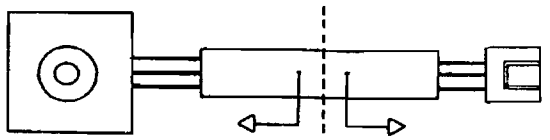
The next stage is the Boost control modification.

8 Locate the Boost Control Valve, B.C.V. It is mounted behind the Air Filter body. Remove both pipes from it (pipes B and C) and join them together with the joiner supplied. NOTE The B.C.V. must remain connected electrically, do not diconnect the wiring plug.
OPTIONAL If desired, the short length of pipe supplied can be fitted to the top connection on the B.C.V. this will give the appearance of an un-modified car.

9 Follow the now joined together pipes to the Intake trunking to the Air Filter (pipe C). Take this pipe off and insert the aluminium restrictor size 1.9 into the pipe, refit the pipe back onto the Intake.

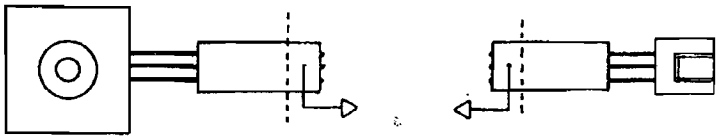
10 Connect an accurate boost gauge to the Engine to either of the two small bore rubber pipes on the end of the Plenum chamber.
The target boost is 13-14 PSI, (0.8-0.9 bar). This is a Maximum figure. If the maximun reading is below this, take off pipe C squeeze out the 1.9 restrictor and insert the 2.0 supplied. If the boost is too high, substitute the 1.8 for the 1.9. If the range of either of the adjustment restrictors is insufficient, please contact BBR for advice.
If the boost is satisfactory and the car runs well, i.e. no detonation and has smooth power; the Module can be fixed to the bulkhead and the wiring can be taped up.

1



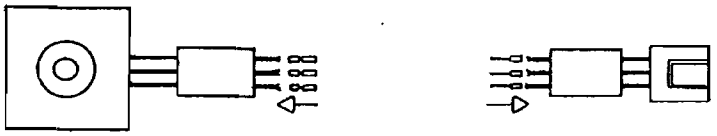
Remove the Boost Sensor from the vehicle, and at a convenient point cut the entire loom in two.

2



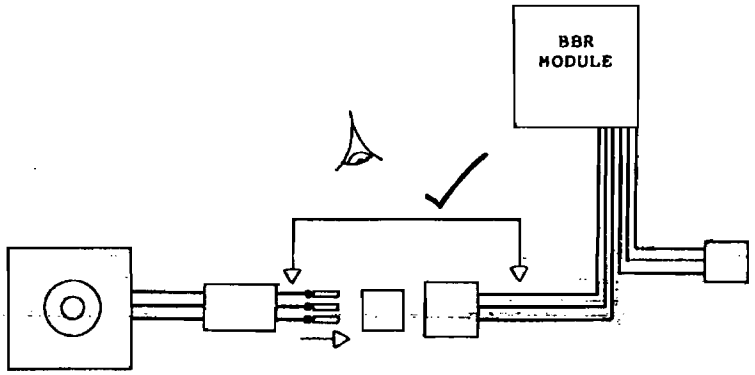
Trim the remaining loom insulation to expose the wires.

3



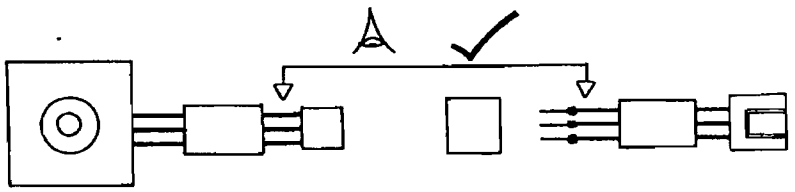
Strip the insulation from the wires. Crimp the appropriate connectors to the wires. The socket (female) connectors fit on the Sensor side. The pin (male) connectors fit on the vehicle loom connector side.

4



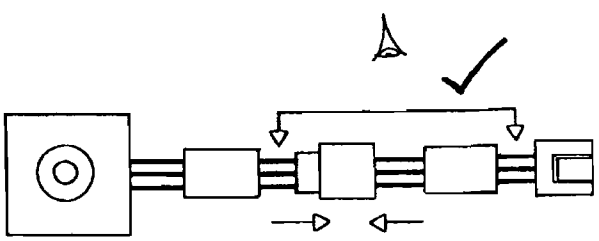
In conjunction with the main diagram which will show the wire colours on the Module, insert one side set of connectors into the appropriate plug to align colour to colour with the Module plug.

5



On the other plug, insert the connectors to match the original colours of the Boost Sensor wires.

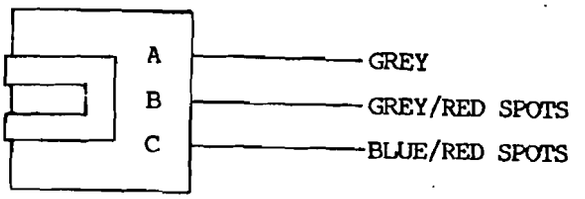
6

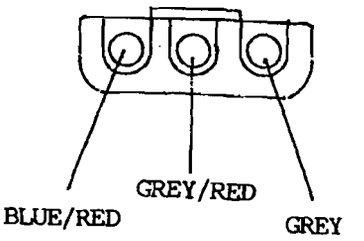


The wiring is now complete; the original wire colours will match if re-connected, and the wire colours will match the wiring diagram of the Module.

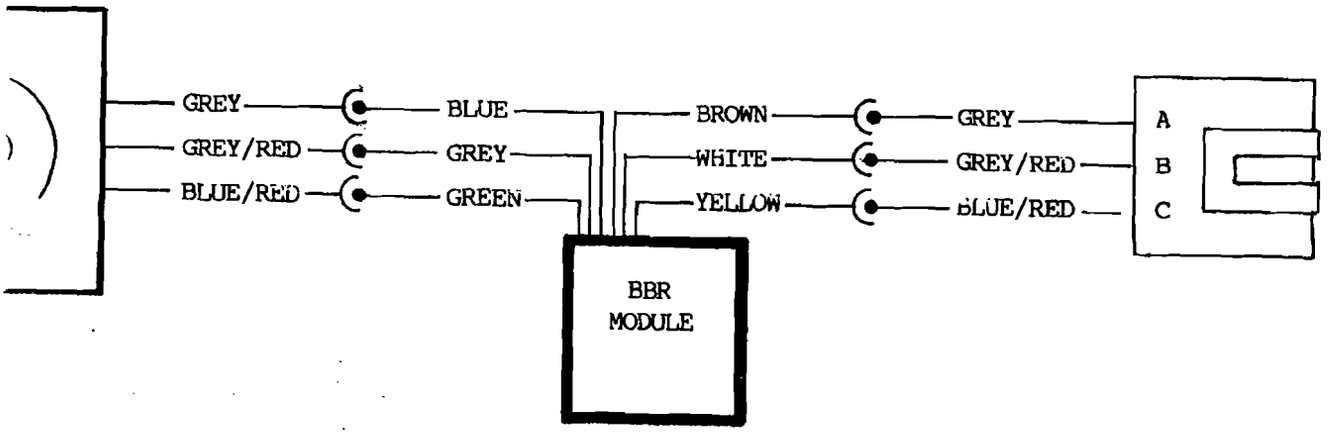
If the engine fails to start with the Module in circuit, remove the Module and retry the engine. If the engine still fails to start check your wire colours and the connectors are crimped correctly making good contact.

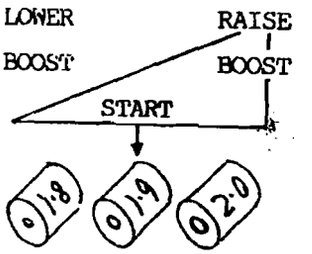
LOTUS ELAN TURBO SE





BOOST SENSOR PLUG WIRING COLOURS





AIR FILTER