



1.8T BCS (Boost Control System)

Volkswagen Beetle installation instructions for the 1.8T engine.

Installation Instructions

- 1) Before starting the installation make sure the vehicle is turned off and the key is removed.
- 2) Find a suitable location to mount the BCS. In most cases the unit is installed in a spot below the center console. The unit is held in place with the Velcro that is provided.
- 3) Remove the dash cover cap located on the top of the dash by pushing forward and lifting off.
- 4) Remove the torx screws on the driver side dash cover and remove the cover. This will provide access to the ECU.
- 5) To improve access to the wiring harness, unplug the connectors and remove the engine computer. The computer is held in place by plastic clips.
- 6) Route the BCS wires up to the engine computer area.
- 7) Remove the ECU connector covers by cutting the zip ties and pulling off the covers from the connector housings.
- 8) Remove about eight inches of the cloth tape around the ECU wiring harness.
- 9) Make the connections about six inches away from the ECU connectors.
- 10) Use the ECU pin diagram below to help you locate the correct wires to connect into.
- 11) Verify the correct wire for each connection by pin number and wire color code.

See the reverse side of this page for wiring instructions.

Calibration Procedure

The rear panel calibration adjustment allows you to fine tune the BCS for your vehicle. If the setting is too high or too low, your car will not make full power. After the BCS is installed, the rear panel adjustment can be set during a short test drive. Start with the setting on maximum (100). See if the car pulls strongly to redline. Turn down the setting until the cars pulls strongly to redline in all gears. If the cars surges (cyclic variation in power), turn down the setting a little bit.

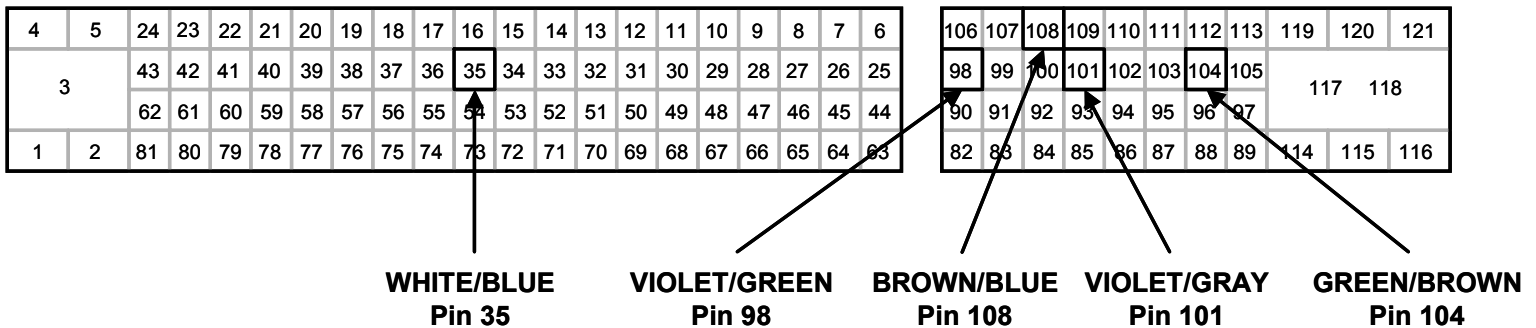
Most 1999 and 2000 cars will wind up set near zero. Many 2001 cars will work best near 90. Several 2002 cars that we have tested work well with a setting around 55.

Wiring Instructions

The diagram below shows the location of the wires on the ECU connector plugs that are used to tie in the BCS. **Be sure to trace the wires to the ECU pins to insure that connections are made to the correct wires.** Do not go by wire color alone. You must confirm the correct wire by connector location. Connections will be made to the wiring harness a few inches from the side of the engine computer. All connections are made using the crimp connectors that are provided.

The T-tap connectors are in two parts. The dark red piece is clamped onto the wire with a pair of pliers. After stripping the corresponding wire from the BCS, crimp on the male spade connector. Make sure you crimp onto the bare wire and not the insulation. Shrink the insulation onto the wire with a heat gun. Inspect the male spade connector to make sure that the spade terminal is centered inside the insulator. This will insure that it mates properly with the T-tap connector. Push the male spade onto the T-tap connector until it snaps into place.

ECU Connector Diagram – Wire Side View



- 1) Connect the BCS **BROWN** wire to the harness **BROWN/BLUE** wire leading to ECU pin 108 using a T-tap connector.
- 2) Connect the BCS **WHITE/BLACK** wire to the harness **VIOLET/GREEN** wire leading to ECU pin 98 using a T-tap connector.
- 3) Connect the BCS **YELLOW/BLUE** wire to the harness **WHITE/BLUE** wire leading to ECU pin 35 using a T-tap connector.
- 4) Connect the BCS **YELLOW/WHITE** wire to the harness **GREEN/BROWN** wire leading to ECU pin 104 using a T-tap connector. Be sure to verify the ECU pin number because there are two **GREEN/BROWN** wires.
- 5) Locate the **VIOLET/GRAY** wire leading to ECU pin 101. Cut the **VIOLET/GRAY** wire.
- 6) Connect the BCS **GRAY/BLUE** wire to the cut **VIOLET/GRAY** wire that leads to the ECU with a butt splice connector.
- 7) Connect the BCS **GRAY** wire to the cut **VIOLET/GRAY** wire that leads to the engine with a butt splice connector.
- 8) Finish the installation by reconnecting all items that were removed to install the 1.8T BCS.
- 9) Place the EO sticker near the factory emission stickers located at the front of the engine compartment.
- 10) If you would like to display your Split Second stickers, a popular location is on each rear side window.

Note that the first green LED on the boost gauge will stay on at half intensity for approximately 15 minutes after turning off the ignition.

If you have any difficulty with installation, please call us at (949) 863-1359 for assistance. We hope you enjoy the enhanced power of your 1.8T engine.

THANK YOU FOR CHOOSING SPLIT SECOND