

# BODY CONTROL COMPONENT

## READ THIS FIRST:

- Find out what damaged the original Body Control Component (BCC). Fix whatever caused the damage.
- Do not remove the replacement BCC unit from its shipping carton until you are ready to install it.
- When handling the replacement BCC, use extreme care to avoid damage from static electricity (refer to Installation Precautions).

- Do not allow dirt or fluids to contaminate the BCC electrical harness connections.
- Some BCC's have special hardware that must be reused. Be sure to note how the original unit is mounted and connected to the vehicle.
- This unit is guaranteed to fit and function in the applications for which it is listed. **Carefully verify the replacement unit number to be sure it is correct for your application.**

## BCC REMOVAL

1. Before disconnecting power to the BCC, retrieve and record any trouble codes using an appropriate scan tool or the vehicle service manual recommended procedure.
2. Disconnect the battery ground terminal to avoid risk of damage to electric components. Power must never be on during installation or when servicing the replacement BCC.
3. Locate and remove the BCC. If necessary, refer to the vehicle service manual for BCC location and proper disassembly procedures. Be sure to save all mounting hardware and assemblies and note how each harness connector attaches to the original BCC.

## FIND THE CAUSE OF ORIGINAL BCC FAILURE

Most BCC's fail because some external component or circuit has placed an excessive electrical load on it. Performing resistance checks on the controlled devices and circuits can help determine what damaged the original unit. Refer to the appropriate service manual for the harness terminals to check. Any faults or defects must be corrected before installing the replacement unit or the **WARRANTY WILL BE VOID.**

Before running system diagnostics, check the electrical harness for disconnected, frayed or worn wires. Also be sure to check for any loose, bent, broken or improperly seated terminal connections and corroded terminals. Correct problems before continuing the trouble-shooting procedure. Additional specific diagnostic information may be supplied with this replacement unit. Be sure to perform all checks and tests before proceeding with the installation.

## INSTALLATION PRECAUTIONS

Electronic components can be damaged by static electricity that builds up on parts, tools, clothing, and your body. The following precautions will reduce the risk of damage from these sources.

**BEFORE OPENING** the package and handling the unit, use a grounding wrist strap or antistatic mat to protect the electronic module from static electricity damage. If not available, touch a good known ground frequently while handling the unit.

**DO NOT REMOVE** the unit until it is time to actually install the BCC. **DO NOT TOUCH** the electrical terminals on the BCC.

**NOTE:** Remove the replacement BCC unit from its carton to assure full possible core credit upon return.

# CARDONE

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## TRANSFERRING THE PROGRAMMING CHIPS

1. When applicable, remove the screws from the programming chip access cover and remove the cover. Set them aside for installation on the replacement BCC. Do not substitute different screws as this could damage the BCC and void the warranty.
2. Using the tool provided, remove the original BCC any programming chips complete with their carriers. If the BCC has more than one PROM, transfer only one PROM at a time. Grasp the carrier with the removal tool and gently rock the carrier from side to side while applying a firm upward pull. **DO NOT REMOVE** the programming chip from its plastic carrier.
3. To avoid the damage that would result from being installed back wards, all BCC's provide location features which assure correct installation of the PROMs. Locate the PROM socket of the correct size on the replacement BCC, align the tabs along the sides of the PROM carrier with the slots in the PROM socket, and position the PROM carrier squarely over the PROM socket.

4. Press down lightly with a finger at each end of the PROM carrier until the carriers firmly seated in its socket. Make sure the carrier fits into the replacement BCC exactly as it did in the original BCC.

**NOTE:** DO NOT APPLY PRESSURE DIRECTLY TO THE PROM CHIP! You will damage the pins and the PROM carrier socket. Repeat steps 3, 4, & 5 for the other PROM, if so equipped.

5. Install the access cover and retaining screws removed from original BCC.

**IMPORTANT!** Before you return your BCC for core credit, write the programming chip (PROM) code in the space provided on the replacement BCC. This will enable positive identification of the original PROM throughout the service life of the vehicle.

## BCC INSTALLATION

1. Carefully follow all instructions labels on the replacement BCC. Be sure to transfer all parts and components from the original unit to the replacement unit.

2. Installation is the reverse of the removal procedure. Follow any additional enclosed instructions.

3. Reconnect the battery ground cable.

## TESTING THE INSTALLATION

1. Before testing the BCC make sure all diagnostics tests and procedures have been performed and any defective components have been repaired or replaced.

2. Use diagnostic equipment to verify that the system is working correctly. If this equipment is not available, use the vehicle's code retrieval procedure to verify that no trouble codes are present.