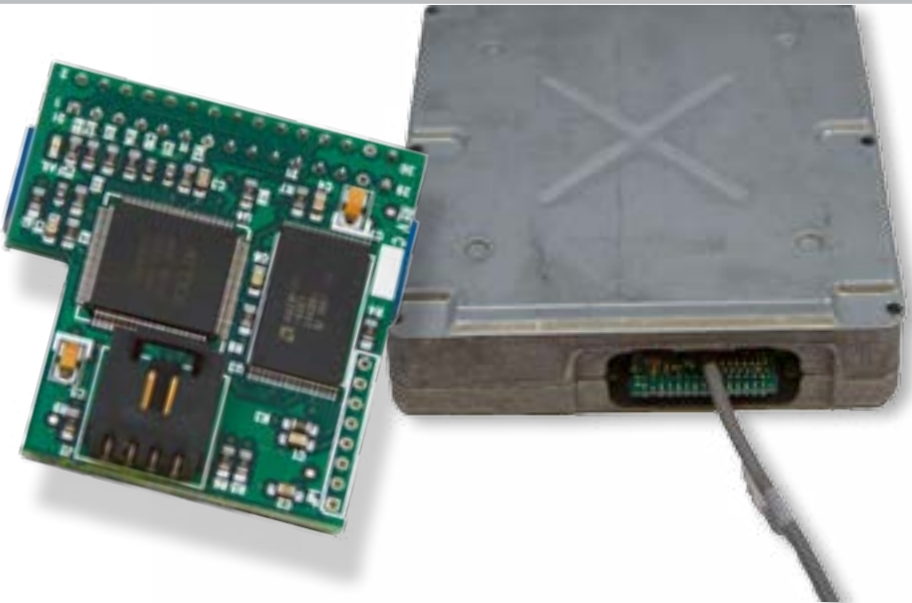# BULLY DOG

INSTALLATION MANUAL

Bully Dog 4 Position Chip Install Manual

Part Numbers

41101
41102
41103
41104
41105
41107
41108
41109

BULLY DOG 4 POSITION CHIP INSTALLATION

WARNING: You must turn your vehicle OFF and REMOVE them completely from the ignition to prevent power from being applied to the computer during installation. Leave them out for the entirety of this installation process or you may damage the computer or the Bully Dog 4 Position Chip. ANY DAMAGE INCURRED FROM NOT FOLLOWING THIS WARNING WILL NOT BE COVERED.

Stage 1: Removing Stock Computer

1. Remove the negative battery terminal wire.

2. Locate the stock computer.
   - The PCM is held in place by a 7/32" or 5.5mm bolt. (Remove this first)

3. Use a 10mm socket to remove the wiring harness from the computer.
   - The 10mm bolt is located at the center of the wiring harness.
   - As you loosen it, the connector will slowly release from the harness.

Stage 2: Prepare the Stock Computer Connector for Cleaning

1. Once the computer is removed, locate the end opposite the wiring harness connector. (this usually has either a small plastic or thin metal cover)

2. Pry this cover off gently.
   - A double-sided flat electrical connector will now be exposed.

3. Notice the terminals have a conformal coating on them; this MUST be removed ENTIRELY or the chip will not make proper contact with the computer.

    *   To remove the plastic or grease coating covering the terminals, remove the cover of the computer. (the hole exposing the contacts is not large enough to clean the contacts sufficiently)
    *   To remove the cover, remove the hex screws on the body of the computer.

    *   The top and bottom of the cover will now lift away, exposing the board.

    *   Older connectors will be covered in white grease, newer ones in a plastic film.

Stage 3: Initially Cleaning the Terminals

It is imperative that the contacts are cleaned properly, both top and bottom.

1. Use a tool to scrape and peel as much of the coating off of the connector as you can.

    *   Do this on BOTH sides of the connector

2. Use an awl, craft knife or paper clip to carefully clean ALL of the coating from between the contacts on both sides

> • Do NOT scratch the metal contacts with your tool.
> • To clean grease coatings, use clean rags and alcohol.

Stage 4: Final Cleaning

1. The contacts should now be free and clear of debris on both sides.

2. The metal contacts have a thin plastic coating or grease over them; remove this for the chip to make proper electrical contact.

3. To do this, scuff it lightly with a Scotchbrite pad or fine sandpaper.

> • Be careful to apply GENTLE pressure while moving the pad from side to side.

4. Clean only enough to remove the coating.

> • As the coating comes off, the contacts will begin to change to a copper color.
> • Older processors need to be thoroughly scuffed.

5. STOP cleaning when you begin to see a hint of copper on each contact.

> • We recommend cleaning one contact at a time, to minimize any damage incurred from over scrubbing the contacts.

6. Wipe the contacts with a clean, lint-free alcohol soaked cloth.

7. Dry the contacts with a clean dry cloth.

Please verify that BOTH sides of the connector were cleaned thoroughly. Improper cleaning is the most common reason that Bully Dog chips fail or work incorrectly.

FAILURE TO CLEAN THE CONNECTOR CORRECTLY CAN VOID YOUR WARRANTY

Stage 5: Installing the Switch Chip

NOTE: If you have a single program chip, you will not have a cable.

1. Slide the switch connector cable into the chip.

- Be sure to follow the proper orientation of the chip. (the circuit board of the chip and the switch cable on the larger side of the J3 port opening.

- Here is the Chip properly installed with the correct orientation. Note the position of the switch cable in the larger side of the J3 port.

- This is a close-up of the switch set top position "0"

2. Once you have properly mounted the chip, secure the chip to the computer with 2" wide package sealing or duct tape.

Stage 6: Re-installing Computer

1. Return the computer to its original location.
      - Be sure the box holding the computer in place does not bind the chip and cause it to tilt.

2. Re-connect the wire harness.

3. Test the vehicle by starting the engine.

4. If it starts ok, secure the computer to the metal bracket with the original bolt or by using tie wraps.

5. Install the switch in a convenient location, such as a glove box.

6. Secure the wires with zip ties.

7. Reconnect the negative battery wire.

BULLY DOG 4 POSITION CHIP OPERATION

The Bully Dog 4 Position Chip comes preloaded with 4 tunes to choose from. The table below lists the tunes for each position.

Selecting Your Tune:

1. The Bully Dog 4 Position Chip can be switched while the engine is running.

2. To switch between tunes, rotate the rotary dial between settings "0" and "3".

3. Rotary switch setting "4" is the stock computer's program.

4. Switch settings "5" to "7" are "No-run" settings.

SCT Custom Tuning:

1. SCT Custom Tuning can be loaded onto the Bully Dog Position Chip from an SCT Custom Tuning dealer.

2. Any selected bank from "0" to "3" can be reprogrammed with a custom tune.

3. Any custom tune that is loaded onto the bank will overwrite and delete the previous tune.

4 POSITION CHIP PRELOADED TUNES

Switch Position	Program Explanation
Position #0	40 WHP (Ford F-250-F350 02-03 Automatic Transmission) 50WHP (All other applications)
Position #1	80 WHP (Ford F-250-F350 02-03 Automatic Transmission) 75WHP (All other applications)
Position #2	120 WHP (Ford F-250-F350 02-03 Automatic Transmission) 100 WHP (All other applications)
Position #3	HIGH IDLE
Position #4	Stock program
Position #5	Car will not run on this setting - antitheft
Position #6	Car will not run on this setting - antitheft
Position #7	Car will not run on this setting - antitheft