

Self Test

The first step in diagnosing any ABS concern should be the performance of self-test. Even if the ABS Lamp is not on when the vehicle comes in for service, performing self-test will reveal any stored DTC's (Diagnostic Trouble Codes) which might aid in diagnosing the concern. DTC's are stored in a section of the ABS module referred to as non-volatile memory. Unplugging the ABS ECU will not erase these codes. It is possible, however, for the module to automatically erase stored DTC's. Erasing of the DTC's will occur if a significant number of ignition key cycles have occurred since the last time the ABS ECU recognized a fault present. This usually requires 250 key cycles. It is therefore possible for a vehicle to come in with a customer complaint of an intermittent ABS Lamp on but no DTC's if too long of a period of time has elapsed since the fault occurred that caused the illumination of the ABS Lamp. At the time of the writing of this TSB, a pass code 16 is planned to be incorporated into current production and service level ABS ECUs.

There are three ways to perform self-test:

1. Using the Super Star II tester
2. Flashout of the ABS Lamp. This method cannot be used on EIC (Electronic Instrument Cluster) equipped vehicles.
3. Using the New Generation Self Tester (NGS)

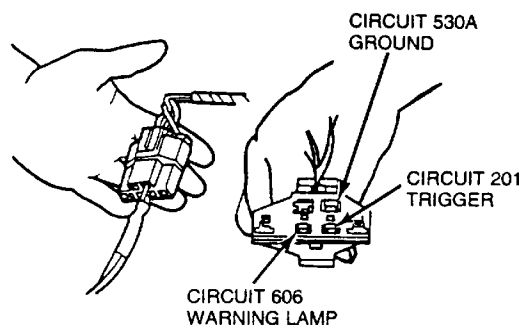
Self-test using the Super Star II

1. Turn ignition off.
2. Connect the star-tester multi-pin connector to the ABS test connector. Note: The single pin connector off the Super-Star II is not used for this test.
3. Verify that the tester is in EEC, slow mode of operation.
4. Turn the tester on. A double zero or blank screen should be displayed. If the message LO BAT appears, the 9v battery in the tester needs to be replaced.
5. Latch the center button down to the "test" position.
6. Turn the ignition switch to Run.
7. Read and record all codes.

Flashout of the ABS Warning Lamp

Note: This test will not work on vehicles equipped with electronic instrument clusters.

1. Turn the ignition off.
2. At the ABS self-test connector, jumper the Trigger circuit to the Ground circuit.



3. Turn the Ignition switch to Run.
4. ABS Lamp will begin to flash if stored DTC's are present. The first digit will flash followed by a pause followed by the flashout of the second digit. A longer pause will separate codes. Make sure to read all DTC's flashed out by the ABS Lamp.

Self-test using the New Generation Star Tester (NGS)

1. Turn the ignition off.
2. Connect the NGS to the ABS test connector.
3. Select the correct model and year for the vehicle.
4. Select the "ABS - Antilock Brake ECU" option from the main menu.
5. Select the self-test option under the ABS menu.
6. Bring the NGS into the vehicle.
7. Turn the ignition to Run. You will be prompted to press the TRIGGER button. **The TRIGGER button has to be pressed immediately after the ignition switch is turned to Run otherwise erroneous codes may be received.**