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Answer Key

Testname: BRAKES7 SHORT19

- 1) The procedure usually specified by vehicle manufacturers for diagnosing ESC or TC concerns involves the following steps:
 - Step 1 Verify the customer concern (complaint).
 - Step 2 Perform a thorough visual inspecting.
 - Step 3 Check service information for the specified procedure to follow.
 - Step 4 Follow the troubleshooting procedure as specified to fix the root cause of the problem. Step 5 Repair the fault.
 - Step 6 Road test the vehicle under the same conditions that were performed to verify the fault to verify the repair. Page Ref: 347
- 2) The controller performs some or all of the following to help restore drive wheel traction during acceleration:
 - Retard ignition timing to reduce engine torque
 - Decrease the fuel injector pulse-width to reduce fuel delivery to the cylinder to reduce engine torque
 - Reduce the amount of intake air if the engine is equipped with an electronic throttle control (ETC); reduced airflow will reduce engine torque.
 - Up-shift the automatic transmission/transaxle. If the transmission is shifted into a higher gear, the torque applied to the drive wheels is reduced.

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- 3) Some of the names include: Vehicle Stability Assist (VSA); Electronic Stability Program (ESP); Vehicle Dynamic Control (VDC); Dynamic Stability Control (DSC), and Vehicle Stability Control (VSC).

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- 4) A "sine with dwell" test is performed to verify that the electronic stability control system (ESC) can operate correctly and keep the vehicle under control.

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- 5) The sensors used in most Electronic Stability Control (ESC) systems include the steering wheel (handwheel) sensor, Vehicle Speed (VS) sensor, lateral acceleration sensor, and yaw rate sensor.
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- 6) Oversteering means that the rear wheels loose traction and the vehicle can spin out of control. Understeer means that the vehicle tends to continue traveling straight when turning a corner.

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