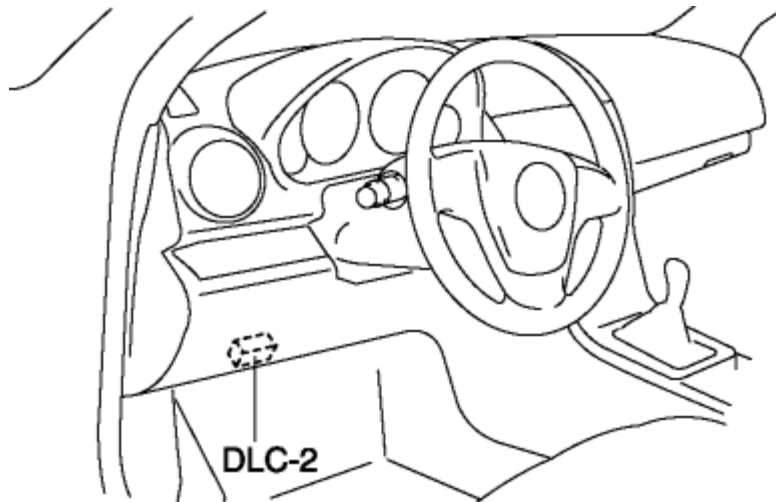


2012 - Mazda6 - Transmission/ Transaxle

TCM NEUTRAL POSITION LEARNING [AY6A-EL]

1. Engage the parking brake and use wheel chocks at the front and rear of the wheels.
2. Connect the M-MDS (IDS) to the DLC-2.



3. After the vehicle is identified, select the following items from the initialization screen of the IDS.
 - a. Select "Powertrain".
 - b. Select "Transmission".
4. Then, select the "Neutral Position Learning".
5. Perform the N position learning according to the directions on the screen.
 - When "Operation Successful" is displayed, select the selector lever to the P position and switch the ignition to off, then to ON **after 5 s**.
 - If "Reinstall TCM properly and then try again" is displayed, perform the following inspection:
 - Verify that the transaxle manual shaft is in the N position.
 - If the manual shaft is in a position other than N, shift it to the N position.
 - Verify that the selector cable is adjusted properly.
 - If the selector cable is not adjusted properly, adjust it. (See [AUTOMATIC TRANSAXLE SHIFT MECHANISM REMOVAL/ INSTALLATION](#).)
 - Inspect the manual shaft lever for deformation.
 - If there is any malfunction, replace the

manual shaft lever.

6. Shift the selector lever from P position to D position, then verify that the positions of the selector lever and the indicator are aligned.

- If there is any malfunction, inspect the DTC. (See [ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE \[AY6A-EL\]](#).)

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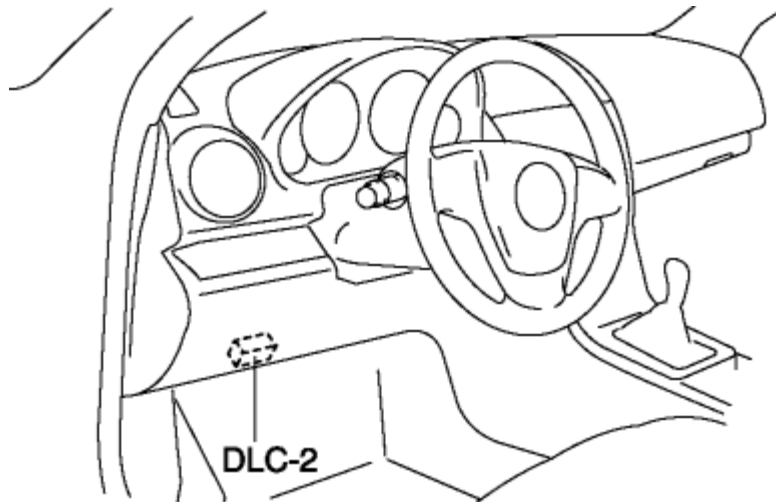
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