Key Programming Using Diagnostic Equipment

Special Tool(s)

ST2834-A	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool

NOTE: This procedure is used when a customer needs keys programmed into the system and does not have 2 programmed ignition keys available. This procedure is also useful when a programmed ignition key(s) is lost or the ignition lock cylinder is replaced, and it is desired to erase key code(s) from the Passive Anti-Theft System (PATS) memory.

NOTE: This procedure erases all programmed ignition keys from the vehicle memory. The vehicle cannot start until a minimum of 2 keys are programmed into the PCM.

NOTE: A minimum of 2 PATS keys must be programmed into the PCM before the vehicle starts.

NOTE: Two PATS encoded (contains a transponder) keys with the correct mechanical cut must be available to carry out this procedure. One or both of them can be the customer's original keys.

NOTE: If additional keys are to be programmed, refer to Key Programming Using Two Programmed Keys in this section. If the remaining keys are with the customer and are not available with the vehicle, instruct the customer to refer to the Owner's Literature for instructions on programming the remaining keys. In either case, the SPAREKEY PID must be enabled.

NOTE: This procedure is not necessary if only the PATS transceiver was replaced. Replacement of the transceiver does not erase the PATS key codes in the PCM.

1. Turn the key from the OFF position to the ON position.

2. From the scan tool, enter TOOLBOX. Select BODY-SECURITY-PATS Functions and follow the on-screen instructions to ENTER SECURITY ACCESS. For additional information, refer to Anti-Theft Security Access in this section.

3. From the scan tool menu select "Ignition Key Code Erase" and follow the on-screen instructions.

4. Turn the key to the OFF position and disconnect the scan tool.

5. Insert the 1st PATS key into the ignition lock cylinder and turn the key to the ON position for 3 seconds.

6. Turn the 1st PATS key to the OFF position and remove the key from the ignition lock cylinder.

7. Insert the next PATS key into the ignition lock cylinder and turn the key to the ON position for 3 seconds.

8. The vehicle should now start with both PATS ignition keys.

9. If it is desired to program additional key(s) (only up to 8 keys total can be programmed into the PCM), refer to Key Programming Using Two Programmed Keys in this section.