

Anti-Theft Security Access and Key Programming - Scan Tool

Programming

NOTE: In order to gain module security access, the diagnostic scan tool **must** have an active Internet connection. A hardwired connection is strongly recommended.

NOTE: When programming keys, the RKE transmitter and the PATs portion of the key are programmed at the same time.

NOTE: Common anti-theft security access choices are:

- Program Additional Key
- Erase and Program Keys
- Parameter Reset
- Customer Spare Key Programming Enable/Disable
- **NOTE:** Unlimited Key Mode should only be used to program more than 8 keys for fleet vehicle purposes. The RKE function only operates for the first 2 keys programmed when the Unlimited Key Mode is enabled. Enabling the Unlimited Key Mode disables the RKE function until an Erase and Program Keys function is carried out. Disabling the Unlimited Key Mode restores the RKE function without the need to erase and reprogram keys.

Unlimited Key Mode ON/OFF (vehicles **without** push-button start only)

- Program Unlimited Key Code (vehicles **without** push-button start only)

NOTE: If no valid programmed keys are available and the perimeter alarm activates when a diagnostic scan tool is connected, carry out the following steps.

- If equipped with a keyless entry keypad, enter the keyless entry keypad code to allow a diagnostic scan tool session to be established. Proceed to Step 2 further below.
 - If not equipped, allow the alarm to activate for 10 minutes, which will then be followed by a 1 minute access window where a diagnostic scan tool session can be established. Proceed to the following steps.
- To avoid nuisance from the horn, remove the horn fuse or relay.

- Establish a diagnostic scan tool session with the vehicle. If equipped with push-button start, it is necessary to use the blank path vehicle identification method (tear tag).
- Select TOOLBOX>Body>Security>PATS Functions, but do **not** select the check mark box to proceed further.
- If equipped with a hood latch switch, and the hood is open for battery charging purposes, place the hood latch in the closed position.
- Disconnect and reconnect the battery, then open and close the driver door to start the 10 minute alarm event. To prevent the alarm from stopping after 5 minutes have elapsed, the BCM requires an ajar switch input. Open the driver door at the 4.5 minute mark from the time the alarm event started. Depending on the diagnostic scan tool power settings, it may be required to provide an occasional mouse/keypad input to prevent power saver mode from being entered and the diagnostic scan tool session being interrupted. At the 10 minute mark, the vehicle exterior and interior lights stop flashing (and if the horn is still connected, it will emit a single chirp) to indicate the 1 minute data link access time period has begun.
- Ignition ON (for vehicles with push-button start, push the button once)
- Select the check mark to proceed.
- Select Erase and Program Keys and proceed to Step 4.

1. Establish a diagnostic scan tool session with the vehicle.
Refer to: [Diagnostic Methods](#) (100-00 General Information, Description and Operation).
2. From a diagnostic scan tool, select TOOLBOX>Body>Security>PATS Functions.
3. Select the appropriate procedure and follow the on-screen instructions.
4. **NOTE:** While programming keys, the diagnostic scan tool may display an error screen indicating a communication failure has occurred, returning to the diagnostic menu. Ignore this error and proceed to program the keys.

When the “Gaining Security Access” screen appears, ensure the diagnostics scan tool is connected to the Internet and select "Yes" to continue.

5. Select Dealership or Aftermarket and enter a valid username and password when prompted.
6. **NOTE:** If programming a passive key (vehicles with push-button start), refer to the Owner's Literature for the passive key backup starting location. The passive key must be placed in this location to successfully program.

Return to the diagnostic scan tool window and follow the on-screen instructions. The door locks cycle to indicate when a key is successfully programmed. Start the vehicle; if it will not start, perform the procedure again starting at step 1.

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