

SECTION 419-01B: Anti-Theft — Passive Anti-Theft System (PATS)
GENERAL PROCEDURES

2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

Key Programming Using Diagnostic Equipment

Special Tool(s)

	Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool
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Erase All Keys And Program Two Keys

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 Body Control Module (BCM).

NOTE: Two Passive Anti-Theft System (PATS) keys with the correct mechanical cut must be available to carry out this procedure.

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 Integrated Diagnostic System (IDS) on-screen instructions to ENTER SECURITY ACCESS.
3. From the scan tool menu select "Ignition Key Code Erase" and follow the IDS on-screen instructions until the key erase procedure completes. The scan tool will then instruct you to program 2 keys to complete the process.
4. Turn the key to the OFF position and disconnect the scan tool (the key does not need to be removed from the ignition at this time).
5. **NOTE:** The doors lock and then unlock to confirm that each Integrated Keyhead Transmitter (IKT) is programmed.

Turn the first PATS key to the RUN position for a minimum of 6 seconds.

6. Turn the first PATS key to the OFF position and remove the key from the ignition.
7. Insert the second PATS key into the ignition and turn the key to the RUN position for a minimum of 6 seconds.
8. The engine should now start with both PATS keys.
9. If it is desired to program additional key(s) (only a total of 8 keys can be programmed into the BCM), refer to [Key Programming — Program a Key Using Two Programmed Keys](#) in this section for each additional key that needs to be programmed.

Spare Key Programming

NOTE: If 8 keys are already programmed, this procedure does not allow any more Passive Anti-Theft System (PATS) keys to be programmed without erasing all stored key codes first.

1. Insert the unprogrammed PATS key into the ignition and turn the key from the OFF position to the RUN position.
 2. From the scan tool, enter TOOLBOX. Select BODY — SECURITY — PATS Functions and follow the Integrated Diagnostic System (IDS) on-screen instructions to ENTER SECURITY ACCESS.
 3. From the scan tool menu select "Program additional ignition key" and follow the IDS on-screen instructions.
 4. The engine should now start with the new PATS key.
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