## **Duramax ECM Install Security Key Relearn Process**

### Important: Read Before Starting Your ECM Replacement

The security key relearn process is required by GM after installing a replacement ECM. This procedure syncs the new ECM to your vehicle's immobilizer system, enabling proper engine start. Failure to complete the full process will result in a "no-start" or ongoing security warning.

### STEP-BY-STEP SECURITY KEY RELEARN

#### 1. Preparation:

- Install New ECM.
- Make sure both batteries are fully charged.
- o Connect a battery maintainer during the entire procedure for best results.
- Turn off all lights, radio, and accessories.
- Always use the original master ignition key.

#### 2. Security Relearn Sequence:

- Insert the master key and turn ignition to ON (but do not crank).
- Wait ~10 minutes until the security light turns off.
- Turn key OFF for 2 seconds.
- Repeat: Turn ignition **ON** (again, do not crank) and wait ~10 minutes for the security light to go out.
- Turn key OFF for 2 seconds.
- Repeat one more time: Turn ignition ON for ~10 minutes until the security light goes out.
- Turn key OFF for 2 seconds.

#### 3. Final Step:

- Turn key ON. The security light should go out in just a few seconds.
- o Start the truck. The ECM and security system are now synchronized.

Total time: About 30 minutes.

# **Additional Tips & Troubleshooting**

- Make sure ALL doors are closed during the process.
- Do NOT use remote starters or additional key fobs for this relearn—use the original vehicle key only.
- If the **security light does not go out after 10 minutes**, check battery voltage and rest for 2 minutes before trying again.
- On some models, completing the relearn may also clear security-related DTCs; clear them with a scan tool if needed.
- If issues persist after successful relearn, verify battery health, key integrity, and check for loss of communication codes.
- This process is required even if the ECM is pre-programmed or cloned.