

GM BCM KEY RELEARN



GM BCM REPLACEMENT GUIDE

(BUICK • CADILLAC • CHEVROLET • GMC • HUMMER • PONTIAC • SAAB • SATURN)

INCLUDES SECURITY / VTD RELEARN REQUIREMENTS

If the key has a visible resistor chip in the blade

- Passkey II (PK2)
- BCM relearn required
- Go to Page 2



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If the key has plastic head and is stamped PK3 or PK3+ or contains a hidden transponder chip

- Passkey III (PK3 / PK3+)
- BCM relearn required
- Go to Page 4



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If the key is plain metal with NO chip

- Passlock
- BCM relearn required
- Go to Page 3



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If the vehicle is Push-Start with a key fob only (PEPS)

- No manual relearn required
- BCM will auto-learn with a valid programmed fob present



General BCM Installation Notes

- Battery must be fully charged
- Do NOT keep a charger connected during relearn
- Do NOT clear security codes until AFTER a successful start
- Confirm VIN programming, mileage display, and vehicle feature configuration
- Resolve any U-codes before starting relearn
- Disable remote start during the relearn process
- If VATS / Security Delete was programmed to the PCM, relearn may not be required (see Tech Tip below)

Tech Tip — VATS / Security Delete

If the PCM has been programmed with VATS / Security Delete (Immobilizer Delete), the BCM relearn may not be required.

Always attempt a start before performing a relearn:

- If the engine starts and runs → Skip the BCM relearn
- If the Security light flashes and the engine will not start → Perform the BCM relearn
- If U-codes or security mismatch remain afterward → BCM security may still need configuration

This mainly applies to Passkey II, Passlock, and PK3 systems where the PCM no longer expects a security password.

Push-Start Vehicles (PEPS)

PEPS systems do not use the VATS / Passlock / PK3 manual relearn procedures.

Once BCM programming is complete and a valid programmed key fob is present, the BCM will automatically learn the immobilizer during the first successful start.

Make sure VIN and immobilizer configuration are correct before attempting start.



(Resistor Chip Key)

1. Turn ignition ON (do not crank). Security light ON or flashing.
2. Wait approximately 11 minutes until the security light turns OFF.
3. Turn ignition OFF for 30 seconds.
4. Repeat ON (11 minutes) ☒ OFF (30 seconds) two more times
5. (3 total cycles).
6. After the 3rd cycle, turn ignition OFF for 30 seconds.
7. Turn ignition ON for 30 seconds.
8. Turn ignition OFF, then start the engine.
9. Confirm the engine starts and idles normally — relearn complete.



REMINDER: Only Passkey II requires a BCM relearn in this group.

If VATS or Security Delete was used on the PCM, the relearn may not be needed.



(Plain Metal Key — No Chip)

1. Turn key to START briefly, then release to ON.
2. Security light remains ON — wait approximately 10 minutes until it turns OFF.
3. Turn ignition OFF for 10 seconds.
4. Repeat steps 1–3 two more times
5. (3 total cycles).
6. After the 3rd cycle, turn ignition OFF for 10 seconds.
7. Start the engine.
8. Clear any DTCs if needed.

NOTE:



- Many cars may learn after 1 cycle.
- Trucks usually require all 3 cycles.



(Transponder Ignition Key)

1. Insert a valid master key and turn ignition ON (do not crank).
2. Security light remains ON — wait approximately 10 minutes until it turns OFF.
3. Turn ignition OFF for 5 seconds.
4. Repeat steps 1–3 two more times
5. (3 total cycles).
6. After the final cycle, turn ignition OFF, then start the engine.
7. Verify the engine continues to run normally.



TECH TIP — ADDITIONAL PK3 KEY LEARN

- Applies only to PK3 / PK3+ transponder keys
- Insert the next key within 10 seconds of removing the previous key
- Turn ignition ON and wait for the security light to turn off
- Repeat for each additional key as needed



- No manual relearn procedure is required for BCM replacement on PEPS systems.
- As long as BCM programming is correct and a valid programmed key fob is present,
- the BCM will automatically complete the security learn during the first successful start.
- If the vehicle will not start and a security indicator is active,
- verify fob programming, BCM configuration, and communication between BCM,
- PCM, and other security-related modules before attempting any relearn.