

# ProTech

Supporting Today's Professional Technicians

FLASH  
reprogramming

## GM Crankshaft Variation Release

### Applications

All 1998 and newer GM vehicles with FLASH reprogramming EECs.

### Problems

Crankshaft Variation Release Procedure must be performed if:

- EEC was reprogrammed.
- Crankshaft position sensor has been replaced.
- EEC has been replaced.

### Solutions

Follow the release procedure outlined below:

1. Install scan tool on Data Link Connector (DLC) located under the dash. Apply parking brake and block wheels. Ensure hood is closed.
2. Place the transmission in park for automatic and neutral for manual transmissions.
3. Start engine and bring up to operating temperature.
4. Apply hydraulic brakes. Select and enable Crankshaft Variation Release procedure using scan tool.

### Caution

Release throttle to idle position once CKP fuel cut off is activated and engine starts to decelerate.

5. Slowly accelerate the engine to 4000 RPM (or indicated RPM for your vehicle). Hold RPM until engine speed drops back toward idle. Release throttle immediately once procedure is learned. Once the variation values are learned, the EEC will return engine control to the driver. The scan tool should indicate a successful release.
6. Turn engine off for at least 15 seconds and remove scan tool. If the release procedure was not learned, DTC P1336 will be stored in the memory.
7. If proceed, ensure that the CKP procedure was followed carefully. Perform test procedures and repeat as necessary.

### Important Notes

Refer to your vehicle's service manual for detailed repair procedures specific to your application, and also to your scan tool's operating procedure.

Visit [www.corpore.com](http://www.corpore.com) for more details on Flash.

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# Gm Crankshaft Variation Relearn Cardone Log In

**RC Schank**



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