



THE SENSOR SPECIALIST

# PARTSMARTS

Insight and intelligence from The Sensor Specialist™

## Camshaft and Crankshaft Position Sensors Relearn

### THE PROBLEM NOT PERFORMING A RELEARN PROCESS

Camshaft and crankshaft position sensor replacement is often necessary on many cars due to the common results of heat and vibration. However, if the proper relearn process is not performed to account for mechanical wear and manufacturing tolerances when replaced, you may face unnecessary comebacks and complaints.

You may encounter a recurring "Check Engine" light soon after the replacement of a cam/crank sensor. This may occur even after the performance issue is fixed. Without the proper relearn performed the vehicle may show a few different symptoms. These can include:

- Check engine light on with a relearn related code stored, such as a " P1336 Crankshaft Position Variation Not Learned"
- The inability of the PCM to accurately determine if an engine is misfiring
- The inability of the PCM to accurately pinpoint a single cylinder as a problem
- A misfire code may be set for the wrong cylinder and lead the technician down the wrong path



In rare cases the engine may misfire or go into "reduced power" or "limp mode" especially under high RPM/load situations. Additionally, omission of the relearn process could cause the vehicle to be unable to pass an emissions test due to incomplete or failed misfire monitor.

### THE SOLUTION NTK'S VALUABLE INFORMATION TO CHECK FOR A NECESSARY RELEARN

NTK provides valuable information that allows technicians to check to see if the cam or crank sensor needs to be relearned. This can be discovered by part number or vehicle application. Many of these relearn procedures can be performed easily by the technician or vehicle owner without any special equipment. However, some do require a full function diagnostic scan tool to complete the process.

If you discover the replaced sensors require a relearn procedure you're left with two logical steps. Find the exact procedure in your vehicle service information or give our ASE technicians a call at 877-473-6767 (option 2 for tech) for more information

To help ensure first-time fixes for technicians and to better serve our aftermarket customers, NTK Sensors provides a comprehensive listing of domestic and import vehicles that may require a relearn function after cam and crank position sensor replacement. This information can be accessed through our ACES data and website parts finder at [ngksparkplugs.com](http://ngksparkplugs.com), or by contacting our technical support team at 877-473-6767. **NTK is The Sensor Specialist™.**

Camshaft Sensor				Crankshaft Sensor			
OEM/Brand	VIO	OEM/Brand	VIO	OEM/Brand	VIO	OEM/Brand	VIO
Chevrolet	33,590,408	Jeep	2,957,866	Ford	35,781,887	Buick	5,391,147
Honda	9,085,476	Cadillac	2,559,023	Chrevolet	34,900,973	Hyundai	5,314,605
GMC	7,374,174	Chrysler	2,248,142	Honda	20,159,741	Pontiac	3,631,308
Buick	3,880,438	Pontiac	2,217,540	GMC	8,189,212	Chrysler	3,384,065
Hyundai	3,802,915	Dodge	1,623,023	Jeep	7,184,444	Cadillac	3,161,318

**Technical Support: 1-877-473-6767**  
Monday – Friday, 8:30am - 7:00pm EST

