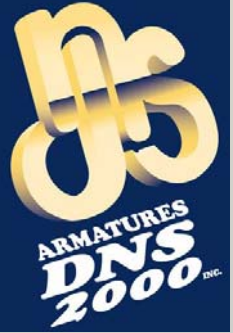


TECH TIPS



PART NUMBERS AFFECTED: SS6416, SS6449,
SS6483, SS6485

MANUFACTURER: GENERAL MOTORS

YEAR: 1995-2000

CONDITION:

SOME 1999-2000 5.7L CADILLAC ESCALADE, 1995-2000 4.3L, 5.0L, 5.7L, 7.4L CHEVROLET & GMC C/K, M/L, G, P, S/T MODELS, AND 1996-2000 4.3L OLDSMOBILE BRAVADA MAY EXHIBIT ON ONE OR MORE OF THE FOLLOWING CONDITIONS:

- "NO START" CONDITION
- "SLOW OR HARD" START/CRANK
- ENGINE MISFIRE - "KICKBACK" DURING CRANK/START
- BACKFIRE DURING CRANK/START
- "GRINDING" OR UNUSUAL NOISES DURING CRANK/START
- BROKEN STARTER DRIVE END HOUSING
- CRACKED OR BROKEN ENGINE BLOCK AT THE STARTER BOSS
- BROKEN STARTER RING GEAR ON FLYWHEEL

A CONDITION MAY EXIST THAT ALLOWS THE CRANKSHAFT POSITION SENSOR TO COMMAND UP TO 50 EXTRA DEGREES OF SPARK ADVANCE DURING ENGINE CRANKING ONLY. THIS IN TURN EXPOSES THE ENGINE TO HIGHER THAN NORMAL CYLINDER PRESSURES, WHICH MAY RESULT IN AN INOPERATIVE CONDITION:

- TO THE ENGINE FLYWHEEL STARTER RING GEAR
- THE STARTER DRIVE END HOUSING
- THE ENGINE BLOCK AT THE OUTSIDE EDGE OF THE STARTER BOSS.

SOLUTION:

INSPECT FOR A STORED POWERTRAIN DIAGNOSTIC TROUBLE CODE (DTC) OF P0338. THIS DTC WILL "NOT" ILLUMINATE THE "SERVICE ENGINE SOON" LIGHT. IF THIS CODE IS STORED, THE CRANKSHAFT POSITION SENSOR, DELCO P/N 10456607, **MUST** BE REPLACED AND INSPECT THE FOLLOWING COMPONENTS FOR DAMAGE: STARTER DRIVE END HOUSING, ENGINE BLOCK AT THE STARTER BOSS, AND THE ENGINE FLYWHEEL STARTER RING GEAR.

IMPORTANT NOTICE: SOME FLYWHEEL WEAR IS NORMAL; BROKEN, CRACKED, OR MISSING TEETH ARE NOT NORMAL. WHEN THE CODE P0338 IS SET, FAILURE TO REPLACE THE CRANKSHAFT POSITION SENSOR COULD RESULT IN REPEATED INOPERATIVE CONDITIONS OF THE STARTER OR FLYWHEEL.