

PCM	Common Service Part #	Common OS	COS's	OEM Applications	Crank Sensor (CKP)	Cam Sensor (CMP)	Notes (DOD, VVT, CAX features, etc..)
Vortec V6 / V8 (Black Box) (512K)			No	96-98 Silverado 1500 (L35, L30, L31 engines) 96-00 Silverado 2500, 3500 (L35, L30, L31, L29 engines) 96-00 Express Van (L35, L30, L31 engines) 96-00 S10 (L35 engines)	V8 = 4X V6 = 3X	1X	0411 PCM Swap = Transfer wiring harness "pins" from Vortec connectors (Black / White) to LS1B connectors (Blue / Red) 96 S-10 V6 has ABS controller in PCM. 97-00 S-10's had a stand alone ABS controller All Vortec engines are Drive By Cable (DBC) throttle bodies
LS1A (512K)		19980200 19980100	No	Gen III V8 97-98 Corvette LS1 98 Camaro LS1 98-01 Kodiak, 98-00 Exp (3/4, 1 ton) (L21)	24X	1X	Can convert LS1A to LS1B by transferring wiring harness "pins" between connectors. Vette is Drive By Wire (DBW); Camaro is DBC L21 = 7.4L , CNP, DBW
LS1B (512K)	(99-00) 9354896 (01-02) 12200411	(99) 09373372 (00) 09381344 (01) 12202088 (02) 12212156	Yes	Gen III V8 99-03 Corvette (LS1, LS6) 99-02 Camaro (LS1) 99-02 Silverado (LR4, LM7, LQ4) 01-02 Express Van (L35, L30, L31) 01-02 S10 L35	24X V8 = 4X V6 = 3X	1X 1X	Most any OS can be flashed into a standard 0411 PCM COS adds up to a 3 bar MAP sensor and many other features Lean cruise available with CAX file for some 2001+ OS Vette is DBW; Some 02 SUV's are DBW 8.1L engines are DBW; All other vehicles are DBC
LS1B (1 MB)	(03) 12576106 (04) 12586242 (05) 12589462 (06-07) 12602801	(03) 12579405 (04) 12587603 (05) 12592618 (06) 12587811 (07) 12613248	Yes	04 Corvette (LS1, LS6) 04 GTO (LS1) 04-05 CTS-V (LS6) 03-07 Silverado (LR4, LM7, LQ4, LQ9) 02-04 Trail Blazer (LM7) 07 Express Van (LQ4) 03-04 S10 (LU3)	24X 3X	1X 1X	Lean cruise available with CAX file for some 2001+ OS Drive By Wire (DBW) for 07 trucks and vans
E40	12581501 12584053 12597191	(05) 12613186	Yes	Gen III V8; Early Gen IV V8 05 Corvette (LS2) 05-06 GTO (LS2) 05-06 SSR (LS2) 05-06 Pontiac GP GXP (LS4) 06 Impala SS, Monte Carlo SS (LS4) 05-06 TB (5.3L), 06 TBSS (LS2)	24X	1X	Very little interchangeability in OS Some LS2 engines were Gen III variants (some sources specifically list engine codes 5MC, 6MC, YTA, ZJA, ZJB as applicable). The 05-06 LS4 (FWD Cars) E40 was 24X, 1X. 2006 TrailBlazer V8, DOD was standard (ref ScarabEpic22).
E38			Yes	L4, V6 and V8 06-11 Corvette LS2, LS3, LS7 10-11 Camaro 6.2L 08-10 G8 6L 07-10 Avalanche, Suburban, Sierra, Silverado	58X	4X	Very little interchangeability in OS COS makes the E85 spark timing maps switchable 06 E38's MAF goes to 512 gps. 2008+ E38's go to 3000 gps
E67			Yes	L4, V6 and V8 10 Corvette ZR1 LS9 LS4 FWD (07 Monte Carlo, 07-08 GP GXP) LS4 (07-09 Impala SS, 08 LaCrosse Super) 06-08 V6 Cars 3.5L, 3.9L (Malibu, Impala, G6, Aura) 06-08 L4 Cars 2.2L, 2.4L (Cobalt, HHR, Mailbu, G5, G6, Aura) 08-09 Trail Blazer, Envoy 4.2L I6 07-08 Trail Blazer, Envoy 5.3L 07-09 Trail Blazer SS (LS2)	58X	4X	Some interchangeability in OS between years (ref: Chuck Cow) COS makes the E85 spark timing maps switchable Exhaust VVT on 4.2L I6 in 08-09 Trailblazers (ref: ScarabEpic22)
E37			No	Gen IV L4 and V6 10-11 Chevy Impala, Malibu 3.5L, 3.9L 07-11 Silverado 4.3L 07-11 Cars L4 (Malibu, Cobalt, HHR, G5, Solstice)	58X ???	4X ???	
P10			No	2002-2005 Trailblazer, Envoy 4.2L I6 (LL8)	7X	1X	Exhaust Cam VVT All P10's interchange (ref: ScarabEpic22)
P11			No	For all 4cyl engines 98+ , LD9, L61, LN2 97-05 I4 2.2L, 2.4L Cars (Cavalier, Grand Am, Sunfire, Saturn) 97-00 I4 2.2L Trucks (S10, Sonoma)	7X	1X	
P12 (1MB / 2MB)			No	H3, Colorado/Canyon, Malibu, Cobalt SS, Atom, 06+ Trailblazer (LK5, L52, LL8, LSJ) 05-07 L4 Cars 2.0L, 2.2L (Supercharged Cobalt, Ion, N/A Malibu) 04-06 I4, I5 Colorado, Canyon 06 4.2L I6 Trailblazer, Hummer H3 (1 MB) 07 4.2L I6 Trailblazer, Hummer H3 (2 MB)	7X	1X	2006 TB P12 = 1 MB; 2007 TB P12 = 2 MB 06 and 07 TB P12's do not interchange (ref: ScarabEpic22)

Abbreviation Definition

DBC	Drive by Cable (throttle cable)
DBW	Drive by Wire (no throttle cable)
TAC	Throttle Actuator Controller (necessary for DBW)
VVT	Variable Valve Timing
COS	Custom Operating System (EFI Live)
TB	Trail Blazer
TBSS	Trail Blazer SS
FWD	Front Wheel Drive

24X reluctor wheel setup info (Reference L21 setup)
12552480 reluctor wheel (L21)
10456248 crank sensor (L21)

Engine RPO Displacement / Configuration

LS1	5.7L
LS2	6.0L
LS3	6.2L
LS4	5.3L, Front wheel drive (FWD)
LS6	5.7L
LS7	7.0L = 427 ci
LS9	Supercharged 6.2L
L76	6.0L
L99	6.2L
LH6	5.3L
LL8	4.2L I6
LM7	5.3L
LQ4	6.0L 99-00 Iron Heads; 01+ Aluminum Heads
LQ9	6.0L, Aluminum Heads
LR4	4.8L
L29	7.4L, 454 ci (old Vortec Engine)
L30	5.0L, 305 ci (old Vortec Engine)
L31	5.7L, 350 ci (old Vortec Engine)
L35	4.3L V6 (old Vortec Engine)
L21	7.4L 454 ci (Medium Duty Trucks) - forged pistons & crankshaft coil near plug ignition, DBW