
COMPONENT PARTS SPECIFICATIONS

GENUINE GM PARTS REMANUFACTURED ENGINES

This is a generic summary of the type of parts found in Genuine GM Parts remanufactured engines. Each engine family is different from other engine families, and remanufacturing specifications can be unique to a specific engine part number.

New Components are those that are always installed new (OE designed) during the remanufacturing process.

Qualified Components are those used parts that are reclaimed by cleaning and checking to OE specifications.

Remanufactured Components are those used parts that are reclaimed by machining to specifications established by GMSPO Engineering with the consultation and direction of General Motors Powertrain (GMPT) Engineering. Changes to OE specifications are typically validated by dynamometer durability testing. All GMSPO remanufactured parts are shipped clean and ready for installation unless otherwise noted in the installation instructions.

THE USE OF SURFACE CONDITIONING DISKS TO REMOVE THE BLACK OXIDE FINISH OR GASKET MATERIAL ON SEALING SURFACES IS STRICTLY FORBIDDEN AND MAY LEAD TO PREMATURE BEARING FAILURE.

COMPONENT SUMMARY LIST

NEW COMPONENTS	QUALIFIED COMPONENTS
Bearings - All	Balance Shafts
Bolts - Cylinder Head (typically)	Ball-Rocker Arm
Camshaft (flat lifter only)	Bracket - Engine Lift
Cup Plugs and Freeze Plugs	Caps (valve)
Gaskets - All	Cover - Fuel Pump Opening
Gear - Balance Shaft Drive (typically)	Fasteners - Various
Gear - Balance Shaft Driven (typically)	Front Covers (if applicable)
Flat Lifters	Intake Manifold (if applicable)
Nut-Connecting Rod	Oil Fill Cap
Nut - Rocker Arm Stud	Oil Pan
Oil Pump	Pushrods
Pistons & Pin and Rings	Retainer - Lifter
Seals - All	Rocker Arms
Sprocket - Camshaft and Crankshaft	Rocker Covers (if applicable)
Timing Chain	Rotators (valve)
Valve - Oil Filter Bypass	Shaft - Distributor to Oil Pump
Valves - Inlet and Exhaust	Valve Springs

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COMPONENT SUMMARY LIST cont.

REMANUFACTURED COMPONENTS	Attribute	Differs from OE Specifications
Cylinder Block	Balance Shaft Bore	Same as OE specifications
	Camshaft Bore	Same as OE Specifications
	Cylinder Bore	Typically .010", .020" up to .030" oversize, same surface finish and geometry as OE - varies by engine family.
	Deck Height	Same to .010" under OE.
	Head Gasket Surface	Same (including flatness, surface finish, etc. - may be machined to achieve OE spec).
	Lifter Bore	Same as OE Specifications
	Main Bearing Bore	Honed to OE specs.*
Cylinder Head	Other	Welding permitted for cosmetic purposes - no welding in cylinder bore. Thread repair (Heli-coil or Time-sert) is permitted.
	Head Gasket Surface	Same (including flatness, surface finish, perp, etc. - may be machined to achieve OE spec).
	Valve Guides	Same surface finish and geometry.
	Valve Seats	Reconditioned to OE specifications - replaced when necessary.
Crankshaft	Other	Thread repair (Heli-coil or Time-sert) is permitted with limits. Cosmetic welding is permitted except in the combustion chamber area.
	Main and Rod Journals	.010", .020", possibly .030" undersize (Dia) - varies by engine family - same surface finish and geometry.
	Other	No welding or straightening allowed.
Camshafts (Roller Lifter Only)	Lobes	Roller lifter camshafts polished and qualified to OE specifications, no rework allowed.
Connecting Rods	Diameter of Big End	Parting line may be machined (max .030") and big end honed. Keep center to center distance to OE specification.

**Assembly information -OE bearing clearances are maintained. Fasteners are tightened in sequence and torques.*

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RPO LISTING - ENGINES

RPO	MY	RPO Description
LA1	96-02	6 Cyl, 3.4L, MFI, HO
LA5	83-86	1.8L (1.8J), L4, MFI
LA7	85-86	1.5L (1.5-5), L4 (Diesel)
LA9	96-02	4 Cyl, 2.2L, MFI, DOHC
LB1	85-92	4.3L (4.3N), V6
LB4	82-97	(4.3Z), V6, EFI
LB4	85-98	(4.3L), V6 90 DEG Gas TBI
LB6	85-90	2.8L (2.8W), V6, EFI
LB7	01-02	Diesel, 8 Cyl 6.6-1, V8, DI, Turbo, HO, Isuzu
LB8	85-89	2.8L (2.8S), V6, MFI
LB9	82-83	5.0L (5.0F), V8, EFI
LC0	86-89	1.5L (1.5-9), L4 (Turbo) MFI
LC1	82-84	2.8L (2.8-1), V6, 2BBL, HO
LC2	86-87	3.8L (3.8-7), V6, SFI, HO/Turbo
LC2	89-89	3.8L (3.8-7), V6 (Turbo), SFI, HO/Turbo
LC3	80-82	229 C.I.D. (229K), V6, 2BBL
LC3	83-84	229 C.I.D. (229-9), V6, 2BBL
LC4	80-85	4.1L (4.1-4), V6
LC5	78-78	231 C.I.D. (231G), V6
LC5	85-85	1.5L (1.5K), L4, 2BBL
LC5	86-89	1.5L (1.57), L4, 2BBL
LC6	78-79	231 C.I.D. (231-2), V6, 2BBL
LC7	87-88	4.1L (4.1-7), V8
LC8	78-82	231 C.I.D. (231-1), V6, 4BBL Turbo
LC8	83-83	231 C.I.D. (231-8), V6, 4BBL Turbo
LC9	78-79	196 C.I.D., V6, 2BBL
LC9	85-88	1.6L (1.6-4), L4, 2BBL
LD2	85-96	2.3L (2.3D), L4, DOHC
LD2	93-96	2.3L (2.3G), L4, DOHC, U-Van, Export
LD4	78-78	250 C.I.D., Stan 6 Cyl
LD4	87-95	2.3L (2.3D), L4, DOHC
LD5	76-87	231 C.I.D., (231A), V6, 2BBL
LD7	75-77	231 C.I.D., (231C), V6, 2BBL
LD8	93-02	8 Cyl, 4.6L, V8, DOHC, SFI, (281 C.I.D.)(Northstar)
LD9	96-02	4 Cyl, 2.4L, SFI, DOHC
LE2	80-80	2.8L (2.8X), V6, 2BBL
LE2	81-86	2.8L (2.8X), V6, 2BBL
LE3	79-84	250 C.I.D., L6
LE4	80-80	400 C.I.D. (400X), V8, 4BBL
LE4	92-94	2.0L (2.0H), L4, MFI, OHC, 122 C.I.D.
LE8	76-91	7.4L-W, V8, 454 C.I.D., 4BBL
LE8	01-01	2.5L, V6
LE8	87-87	454, 7.4L, V8, 4BBL (different int & exh manifold)
LE9	81-86	305 C.I.D. (305H), 5.0L, V8
LF3	81-86	V8, 5.0L-F, 305 C.I.D., 4BBL
LF3	86-86	305, V8, TBI
LF4	76-80	400 C.I.D. (400R), V8, 4BBL
LF5	79-91	350 C.I.D., V8, 5.7L-P, 2BBL

RPO	MY	RPO Description
LF5	92-00	350 C.I.D., V8
LF6	96-02	6 Cyl, 4.3L, CPI, V6, 90 DEG
LF7	79-79	260 C.I.D. (260P), Diesel V8
LF8	76-80	454 C.I.D. (454S), V8
LF9	78-85	350 C.I.D. (350N), Diesel V8
LG0	85-95	2.3L (2.3A), L4, MFI
LG0	91-91	2.3L (2.3A), LA (high output), OHC
LG1	96-96	2.4L, MFI, SOHC, 4 Cyl
LG1	01-02	2.4L, MFI, SOHC, 4 Cyl
LG2	86-88	3.8L (3.8B), V6, SFI
LG3	76-76	305 C.I.D. (305Q), V8
LG3	77-78	305 C.I.D. (305U), V8
LG3	79-79	305 C.I.D. (305G), V8
LG3	86-88	3.8L (3.8-3), V6, SFI, HO, 231 C.I.D.
LG3	01-02	262 C.I.D. (4.3L), V6, OEM
LG4	78-88	305 C.I.D. (305H), V8-Pass
LG5	89-90	3.1L (3.1V), V6, EFI
LG6	87-96	3.1L (3.1D), V6, TBI
LG7	85-94	3.3L (3.3N), V6, MFI
LF7	02-02	305 C.I.D. (5.0L), V8, OEM
LG8	84-84	5.0L, V8
LG8	85-90	5.0L (5.0-9), V8 (HI Output)
LG8	99-02	6 Cyl, 3.1J, SFI, V6
LG9	76-81	305 C.I.D. (305G), V8
LH0	88-96	3.1L (3.1T), V6, MFI
LH0	90-94	3.1L (3.1T), V6, Export
LH0	92-94	3.1L (3.1T), V6, Export
LH7	81-84	2.8L (2.8Z), V6 (HI Output), 2BBL
LH8	82-86	1.8L (1.8-0), L4, TBI
LH8	85-86	1.8L (1.8-0), L4, EFI
LH9	91-95	250 C.I.D. (4.1L), 6 Cyl
LJ5	81-86	1.8L (1.8D), Diesel L4
LK9	82-85	3.0L (3.0E), V6, 2BBL
LL1	83-84	2.8L (2.8L), V6
LL2	82-83	2.8L (2.8R), V6
LL2	90-93	2.8L (2.8R), V6
LL6	96-00	6 Cyl, 3.0L, MFI, DOHC, V6, HO
LL7	99-01	4 Cyl, 2.0L, MFI, DOHC, Turbo, HO
LL8	87-89	2.0L (2.0-1), L4 (HI Output)
LL8	01-02	4.2L, DOHC, L, MFI, Alum 6 Cyl
LM1	76-82	350 C.I.D. (350L), V8
LM1	83-88	350, V8
LM3	90-93	2.2L (2.2G), L4, TBI
LM4	02-02	8 Cyl, 5.3L, SFI, Alum
LM7	99-02	8 Cyl, 5.3L, MFI
LM9	84-86	3.8L (231-9), V6, SFI, Turbo
LN2	91-02	4 Cyl, 2.2L-4, MFI, 133 C.I.D.
LN3	84-85	3.8L (231-3), V6, MFI

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RPO	MY	RPO Description
LN3	88-92	3.8L (3.8C), V6, MFI
LN3	99-00	3.8L (3.8H), V6, MFI
LN4	97-99	Diesel, 6 Cyl, 7.1L, Turbo
LN7	85-88	3.0L (3.0L), V6 (HI Output), MFI
LN8	83-94	2.5L (2.5E), L4, EFI
LN8	85-91	2.5L (2.5E), L4, TBI
LP2	89-01	1.0L (1.0-6), L3 (Digital Fuel Injection)
LP3	75-77	5.7L-E, 350 C.I.D., 4BBL
LP4	97-02	8 Cyl, 7.4L (7.4D), MFI
LP9	84-85	5.7L (SEO), V8
LQ0	96-98	4Cyl, 2.6L, MFI, Isuzu
LQ1	91-99	3.4L (3.4X), MFI, OHC, V6, HO, DOHC
LQ2	83-85	2.0L (2.0Y), L4
LQ4	98-02	8 Cyl, 6.0L, MFI
LQ5	82-86	2.0L (2.0P), L4, TBI
LQ6	87-92	4.5L (4.5-8), V8 (Digital Fuel Injection)
LQ7	82-85	2.2L (2.2S), Diesel L4
LQ8	82-83	2.5L (2.5F), L4, 2BBL
LQ9	81-86	2.5L (2.5-2), L4, TBI
LQ9	01-02	6.0L (6.0N), V8, MFI, Iron, High Output
LR0	90-99	7.0L, 8 Cyl
LR1	82-85	1.9L (1.9A), L4
LR2	82-90	2.8L (2.8B), V6
LR4	99-02	8 Cyl, 4.8L, MFI
LR6	88-89	4.5L (4.5-5), V8 (Digital Fuel Injection)
LR6	90-90	4.5L (4.5-5), V8, MFI
LR8	82-93	2.5L (2.5R), L4, TBI
LR9	82-84	2.0L (2.0B), L4, 2BBL
LR9	85-86	2.0L (2.0P), L4, EFI
LS0	88-00	V8, 6.0L
LS1	97-02	8 Cyl, 5.7L, SFI, Alum
LS2	85-86	4.3L (4.3-7), Diesel V6
LS3	87-93	1.0L (1.0-2), L3 Turbo
LS4	76-76	8 Cyl, 7.4L, 4BBL
LS5	80-81	4.3L (4.3S), V8, 2BBL
LS5	89-95	1.6L (1.6U), L4, TBI, OHC, 98 C.I.D.
LS6	01-02	8 Cyl, 5.7L, SFI, Alum, High Output
LS6	78-79	4 Cyl, 2.5L, 2BBL
LS8	79-79	151 C.I.D., L4, 2BBL
LS9	76-86	350 C.I.D. (350L), V8
LT1	92-98	8 Cyl, 5.7L (5.7P), MFI, HO
LT2	83-92	2.0L (2.0K), L4, EFI
LT3	87-90	2.0L (2.0M), L4, MFI
LT4	76-76	8 Cyl, 6.6L, 4BBL
LT4	96-96	8 Cyl, 5.7L, MFI, High Output
LT4	97-99	8 Cyl, 5.7L, MFI
LT5	89-96	5.7L (5.7J), TPI
LT6	79-85	4.3L (4.3V), Diesel V6

RPO	MY	RPO Description
LT6	82-84	4.3L (4.3V), Diesel V6
LT7	82-85	4.3L (4.3T), Diesel V6, 260 C.I.D.
LT8	82-87	4.1L (4.1-8), V8
LT9	80-89	350, V8
LU2	85-91	4.3B (4.3B), V6 HI Output
LU3	02-02	6 Cyl, 4.3L, MFI, V6, 90 DEG
LU4	99-01	4 Cyl, 2.3L, MFI, Low Pressure Turbo, DOHC
LU5	82-82	5.0L (5.07), V8, 305 C.I.D., TBI
LU5	83-83	5.0L (5.0S), V8, 305 C.I.D., TBI
LU8	80-81	4.9L, Turbo Charged, 301 C.I.D., 4BBL, F-car only
LV2	80-90	307 C.I.D. (307Y), V8, 5.0L, 4BBL
LV2	83-84	307 C.I.D. (307-9), V8, HI Output Thrust (W/W40)
LV4	91-93	1.6L (1.6-8), L4, DOHC Turbo
LV6	90-02	4 Cyl, 1.8L (1.8-8), MFI
LV8	75-81	260 C.I.D., V8, 4.3L-F, 2BBL
LV8	82-82	260 C.I.D. (260-8), V8
LW0	88-93	1.6L (1.6-5), L4, DOHC
LW2	90-90	4.5L (4.5-3), V8, MFI
LW5	99-01	3.0L, MFI, V6, Turbo, DOHC, Opel
LW6	91-01	4Cyl
LW9	80-83	2.5L (2.5-5), L4, 2BBL
LX0	90-02	Diesel, 6 Cyl, 6.6L, L6, Turbo
LX2	72-76	V8, 500 C.I.D., 8.2L, 4BBL
LX2	91-00	8.2L (8.2), V8, TBI
LX3	76-77	1.4L-1, L4
LX5	98-02	6 Cyl, 3.5H, MFI, DOHC, V6
LX6	77-78	151 C.I.D., L4, 2BBL
LX8	78-80	2.5L (2.5V), L4, 2BBL, 151 C.I.D.
LY5	76-78	1.6L (1.6E), L4
LY8	98-01	4 Cyl, 1.3L, MFI, OHC
LY9	85-85	1.0L (1.0M), L3
LY9	86-88	1.0L (1.0-5), L3
L01	88-01	1.6L (1.6-6), L4, MFI, SOHC
L03	88-93	5.0L (5.0E), V8, TBI
L03	87-96	5.0L (5.0H), V8, TBI
L05	89-93	5.7L, EFI
L05	91-97	5.7L (5.7-7), 8 Cyl
L05	87-96	5.7L, TBI
L09	94-97	6 Cyl, 2.5L, Fuel Injection
L11	75-77	140 C.I.D. (140), OHC, L4
L13	75-76	140 C.I.D. (140), L4
L17	78-79	1.6L (1.6E), L4, 1BBL
L17	80-81	1.6L (1.6-9), L4
L17	82-87	1.6L (1.6C), L4, 2BBL
L18	79-80	4 Cyl, 1.6L-0, 2BBL
L18	00-02	8 Cyl, 8.1L, MFI, 496 C.I.D.
L19	82-99	7.4L (7.4N), V8, EFI
L21	98-01	8 Cyl, 7.4L (7.4B), MFI, Performance

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RPO LISTING - ENGINES

RPO	MY	RPO Description
L22	74-86	250 C.I.D. (250), L6
L25	75-96	292 C.I.D. (292T), L6
L26	78-79	200 C.I.D., V6
L26	91-96	4.9L (4.9B), V8, MFI
L27	90-95	3.8L, SFI, V6, HO, 231 C.I.D.
L27	77-79	4.9L (301Y), 301 C.I.D., 2 BBL, V8
L29	91-01	8 Cyl, 7.4L, MFI
L30	76-76	8 Cyl, 5.0L, CPI
L30	95-02	8 Cyl, 5.0L, CPI
L31	93-02	8 Cyl, 5.7L, CPI
L32	75-77	350 C.I.D., 5.7L-H, V8, 2BBL
L32	93-95	3.4L, V6 (3.4S), SFI, OHV
L33	77-79	425 C.I.D. (425), V8
L34	99-02	2.0L, MFI, DOHC, 4 Cyl
L34	76-82	350 C.I.D. (350R), V8
L35	78-79	425 C.I.D. (425), V8, EFI
L35	85-02	4.3L (4.3W), CPI, V6, 90 DEG
L36	95-02	6 Cyl, 3.8K, MFI, V6, HO
L37	93-02	4.6L, V8, DOHC, SFI, 281 C.I.D. (Northstar)
L37	78-81	301 C.I.D., 4.9L (4.9W), V8, 4BBL
L38	83-94	2.5L (2.5A), 4 Cyl
L39	79-82	267 C.I.D. (267J), V8
L40	92-96	4 Cyl, 2.3L (2.3-3), MFI, SOHV
L43	79-90	V8, 427 C.I.D., 7.0L, W/4BBL Carb
L44	85-88	2.8L (2.8-9), V6, HI Output, MFI
L46	82-82	1.8L (1.8G), L4
L47	94-01	8 Cyl, 4.0L, SFI, DOHC
L48	77-80	350 C.I.D. (350), V8, 4BBL
L49	78-80	350 C.I.D. (350B), V8
L49	82-82	5.7L, V8
L49	84-96	Diesel, 6.5L (6.5P), V8

RPO	MY	RPO Description
L54	86-86	Diesel, 4.3L (4.3-8), V8
L56	88-00	Diesel, 8 Cyl, 6.5 (6.5S), Turbo
L57	87-02	Diesel, 8 Cyl, 6.5L(6.5Y), HO
L57	94-01	Diesel, 6.5L (6.5Y), V8
L61	80-84	368 C.I.D. (368), V8
L61	99-02	2.2L, 4 Cyl, MFI, DOHC - Lotus Car
L62	80-85	368 C.I.D. (368-9), V8
L65	76-77	350 C.I.D. (350G), V8
L65	85-02	Diesel, 6.5L (6.5F), Turbo, HI Output
L67	91-02	3.8L (3.8-1), SFI, V6, Super-charged
L68	85-91	2.5L (2.5U), L4, TBI
L69	83-83	5.0L (305-7), V8, HI Output, 4BBL
L69	84-88	5.0L (305G), V8, HI Output, 4BBL
L72	92-97	4 Cyl, 1.3L, TBI
L73	88-93	1.6L (1.6-6), L4, TBI
L74	73-76	455 C.I.D., 4BBL
L75	72-76	455 C.I.D., 4BBL
L76	76-77	350 C.I.D., V8, 4BBL
L77	74-77	350 C.I.D. (350J), V8
L77	78-80	350 C.I.D. (350X), V8
L77	81-81	350 C.I.D. (350B), V8
L78	76-79	400 C.I.D., V8, 4BBL
L80	77-79	403 C.I.D. (403), V8
L81	81-81	V8, 5.7L
L81	97-02	6 Cyl, 3.0L, MFI, HO
L82	73-82	350 C.I.D. (350), V8, Special HI Perf
L82	93-99	3.1L (3.1M), 6Cyl, V6, MFI, HO
L83	82-82	5.7L (5.7-8), V8, TBI
L83	84-84	5.7L (5.7-8), V8, CFI - Crossfire, TBI
L98	85-92	5.7L (5.7-8), 350 C.I.D., TPI
L99	94-97	8 Cyl, 4.3L, MFI