

MELLING™

PERFORMANCE



2023 GM LS PARTS GUIDE



Melling Engine Parts got its start soon after World War II. In 1946, automakers devoted themselves to producing new vehicles. At that time, they were not concerned with providing service parts for older cars that were in desperate need of repair. George Melling Sr. and his son Ben operated a tool shop in Jackson, Michigan and they recognized the opportunity to provide high quality automotive aftermarket parts. George and Ben then focused on oil pumps manufactured with an attention to quality. Their first product that year was the M-10 for the 1937 6 cylinder Chevrolet. It sold well and they knew they needed to expand and make oil pumps for other engines.

By 1952 the line consisted of 20 oil pumps and 15 repair kits when the first high-volume oil pump was introduced making it a banner year for Melling Engine Parts. The high-volume oil pump was a Melling “brainchild” revolutionizing the automotive oil pump aftermarket. That same year Melling expanded its business horizons beyond oil pumps when it became the first nationally recognized aftermarket supplier to distribute new replacement camshafts. 70 years later Melling is still recognized as an industry leader in camshafts.

Today, after 75 years we are still family-owned and directed by the fourth generation of the Melling family. Melling has expanded its product offerings to thousands of aftermarket engine parts spanning 27 different product lines with a coverage of over 1 million applications. Being an original equipment supplier of engine parts to the automakers keeps us current on the latest product design and manufacturing technologies. Melling’s commitment to quality is verified by its ISO/TS 16949 quality certification.

The company has traveled a long road and paving the way has always been the Melling customer. Listening to the feedback from our customers has been one of the keys to our success. Success brought about by utilizing that information to provide innovative and economical solutions to the issues engine builders encounter.

The resulting product improvements have become vital when building a high performance LS engine for the track or a rebuilt engine for your daily driver. The following pages of this catalog focuses just on our high performance offerings for GM LS applications. Please refer to the Melling website for additional application information and tech videos covering a wide range of topics including installation instructions.

Thank you for the 75 years of loyalty you have given us. We are humbled by it and will continue to build on our tradition of supplying dependable performance engine parts.



MELLING GM LS VALVE SPRING KITS

| Valve Spring Kit Number | Valve Spring Kit Contents | | | | |
|-------------------------|---------------------------|--------------|------------------|---------------------|----------------------|
| | Spring/Qty | Retainer/Qty | Lock/Qty | Valve Seal/Qty | |
| VSK46652 | 466524 / 16 | 475264 / 16 | VL-760 / 16 Pair | 440014 / 8 (Intake) | 440024 / 8 (Exhaust) |
| VSK46656 | 466564 / 16 | 475274 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| VSK46659 | 466594 / 16 | 475274 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| VSK46694 | 466944 / 16 | 475264 / 16 | VL-760 / 16 Pair | 440014 / 8 (Intake) | 440024 / 8 (Exhaust) |
| VSK46673 | 466734 / 16 | 475274 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| VSK461208 | 461208 / 16 | 475274 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| VSK46694T | 466944 / 16 | 475284 / 16 | VL-760 / 16 Pair | 440014 / 8 (Intake) | 440024 / 8 (Exhaust) |
| VSK46652T | 466524 / 16 | 475284 / 16 | VL-760 / 16 Pair | 440014 / 8 (Intake) | 440024 / 8 (Exhaust) |
| VSK46656T | 466564 / 16 | 475294 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| VSK46659T | 466594 / 16 | 475294 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| VSK46673T | 466734 / 16 | 475294 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| VSK461208T | 4612084 / 16 | 475294 / 16 | VL-760 / 16 Pair | 440034 / 16 | |
| 46652-16 | 466524 / 16 | N/A | N/A | N/A | |
| 46656-16 | 466564 / 16 | N/A | N/A | N/A | |
| 46659-16 | 466594 / 16 | N/A | N/A | N/A | |
| 46694-16 | 466944 / 16 | N/A | N/A | N/A | |
| 46673-16 | 466734 / 16 | N/A | N/A | N/A | |
| 461208-16 | 461208 / 16 | N/A | N/A | N/A | |



46656-16



VSK-46652T

Street rods, circle track and drag racing. Melling Performance valve spring kits will exceed your requirements. Standard, mid-range, heavy-duty and race ready applications are available from Melling Performance in a variety of wire sizes, materials, and spring pressures. Performance valve locks, seals, and retainers included are designed to increase performance and durability.

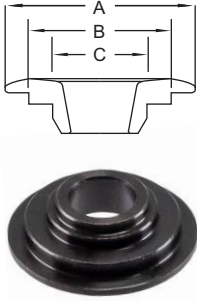
MELLING GM LS VALVE SPRINGS

| Spring Number | Spring Type | O.D. | I.D. | Installed Load & Height | | Open Load & Height | | Spring Rate | Coil Bind | CR-Moly Retainer | Titanium Retainer |
|---------------|-------------|-------------|-----------|-------------------------|-------------|--------------------|-------|-------------|-----------|------------------|-------------------|
| | | Inch | Inch | lbs. | Inch | lbs. | Inch | | | | |
| 461208 | Dual | 1.350 | .700 | 160 @ 1.800 | 482 @ 1.100 | 460 | 1.045 | 475274 | 475294 | | |
| 466524 | Beehive | 1.264/1.029 | .890/.665 | 130 @ 1.800 | 325 @ 1.200 | 325 | 1.146 | 475264 | 475284 | | |
| 466564 | Dual | 1.268 | .890 | 147 @ 1.800 | 406 @ 1.230 | 454 | 1.100 | 475274 | 475294 | | |
| 466594 | Dual | 1.304 | .670 | 151 @ 1.800 | 417 @ 1.150 | 409 | 1.080 | 475274 | 475294 | | |
| 466734 | Dual | 1.295 | .676 | 125 @ 1.800 | 370 @ 1.150 | 341 | 1.100 | 475274 | 475294 | | |
| 466944 | Beehive | 1.307/1.072 | .885/.650 | 145 @ 1.800 | 358 @ 1.175 | 340 | 1.100 | 475264 | 475284 | | |



Street to circle track, OEM to drag race performance, Melling Performance valve springs cover the market and your requirements. Standard, mid-range, heavy-duty and race ready applications are available from Melling Performance in a variety of wire sizes, materials and spring pressures. Melling Performance spring designs include beehive and dual springs.

MELLING GM LS VALVE SPRING RETAINERS



| Retainer Number | Valve Stem Size | Dim A | Dim B | Dim C | Material | Lock Degree | Spring Type |
|-----------------|-----------------|-------|-------|-------|-------------|-------------|-------------|
| | Inch | Inch | Inch | Inch | | | |
| 475234 | 8mm | 1.039 | .606 | N/A | Chrome-Moly | 7° | Beehive |
| 475244 | 8mm | 1.156 | .950 | .675 | Chrome-Moly | 7° | Dual + .050 |
| 475264 | 8mm | 1.030 | .640 | N/A | Chrome-Moly | 7° | Beehive |
| 475274 | 8mm | 1.240 | .860 | .610 | Chrome-Moly | 7° | Dual |
| 475284 | 8mm | 1.030 | .640 | N/A | Titanium | 7° | Beehive |
| 475294 | 8mm | 1.240 | .860 | .610 | Titanium | 7° | Dual |

*Refer to Melling Catalog for Application Information

The increased spring pressures required when using higher lift, high RPM performance camshafts make the engine valve spring retainers a critical piece of the valve train package. Melling Performance offers a variety of valve spring retainers to fit these demands. Whether you choose chrome-moly steel or lightweight titanium, you can be assured that you have chosen one of the best valve spring retainers available in the performance market today.

MELLING GM LS VALVE STEM SEALS



| Seal Number | Description | Position |
|---------------|--|------------------|
| 440014 | OE Style; Premium Viton Seal Material | Intake |
| 440024 | OE Style; Premium Viton Seal Material | Exhaust |
| 440034 | OE Style; Designed For Dual Springs; Premium Viton Seal Material | Intake & Exhaust |

*Refer to Melling Catalog for Application Information

Melling Performance valve stem oil seals provide reliable sealing under the harshest racing conditions. All Melling Performance valve stem oil seals are manufactured using the latest engineering technology to provide high quality and worry free performance while providing a perfect seal every time. Melling Performance valve stem oil seals are intended for GM LS applications 2002 and newer.

MELLING GM LS VALVE SPRING SEATS

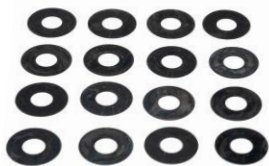
| Seat Number | O.D. | Locator I.D. | Thickness | Shoulder Height | Shoulder Diameter | Material | Type |
|---------------|-------|--------------|-----------|-----------------|-------------------|----------|--------------|
| | Inch | Inch | Inch | Inch | Inch | | |
| 478014 | 1.364 | .570 | .045 | .220 | 1.367 | Steel | Cup |
| 478024 | 1.250 | .570 | .060 | .135 | .656 | Steel | I.D. Locator |
| 478034 | 1.250 | .505 | .060 | .135 | .656 | Steel | I.D. Locator |

*Refer to Melling Catalog for Application Information

When installing non OE style valve seals onto aluminum LS cylinder heads the use of steel spring seats are a must to protect the soft aluminum spring pocket. Melling Performance valve spring seats are manufactured from the highest quality heat treated material, which will ensure that your spring pockets remain free from damage.



MELLING GM LS VALVE SPRING SHIM SPECIFICATIONS



| Shim Number | O.D. | Locator I.D. | Thickness | Material | Type |
|-----------------|-------|--------------|-----------|----------|------|
| | Inch | Inch | Inch | | |
| 471060HP | 1.246 | .814 | .015 | Steel | Shim |
| 473060HP | 1.246 | .814 | .003 | Steel | Shim |
| 476060HP | 1.246 | .814 | .006 | Steel | Shim |
| 471052HP | 1.246 | .518 | .015 | Steel | Shim |
| 473052HP | 1.246 | .518 | .003 | Steel | Shim |
| 476052HP | 1.246 | .518 | .003 | Steel | Shim |



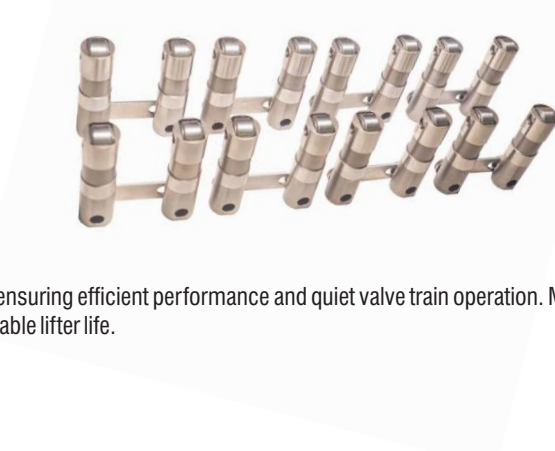
*Refer to Melling Catalog for Application Information

Valve spring shims can be a critical piece when trying to dial in your desired spring loads. Melling performance valve spring shims are manufactured from the highest quality heat treated materials ensuring a trouble free, accurate valve spring set up every time.

MELLING GM LS LIFTERS

| Lifter Number | Type | Description |
|--------------------|------------------------------------|--|
| LS081RF16 | Tie Bar / Hydraulic | Standard tie bar drop in, hydraulic lifter |
| LS083RF16 | Tie Bar / Mechanical | Standard tie bar drop in, mechanical lifter |
| 292110R | Drop In / Hydraulic | Premium drop in design lifter. Designed to be used with factory lifter trays |
| 29ST2126LSR | Tie Bar / Hydraulic / Short Travel | Premium short travel axle oiling lifter. Designed for high horsepower and high RPM |
| 292126LSR | Tie Bar / Hydraulic | Premium tie bar axle oiling |

*Refer to Melling Catalog for Application Information



Melling Performance GM LS lifters are designed and built to get the job done while ensuring efficient performance and quiet valve train operation. Melling Performance GM LS lifters are manufactured from the finest materials thus ensuring long dependable lifter life.

MELLING GM LS PUSHRODS

| Pushrod Number | Material | Length | Wall Thickness | Diameter | Construction |
|----------------|-------------|--------|----------------|----------|--------------|
| 500704 | Chrome-Moly | 7.400 | .080 | .3125 | 1 Piece |

*Refer to Melling Catalog for Application Information



Melling Performance GM LS push rods are built to the most stringent specifications using only the highest quality materials and manufacturing processes available. Melling Performance recommends always installing new push rods to ensure proper valve train geometry and worry free performance.

MELLING GM LS ROCKER ARMS

| Rocker Arm Number | Description | Position |
|-------------------|---|------------------|
| MR-1341 | Improved OE Style; Full Rotation Trunnion | Intake & Exhaust |
| MR-1342 | Improved OE Style; Full Rotation Trunnion | Intake |

*Refer to Melling Catalog for Application Information



MR-1341
With Centered Rocker Arm Tip



MR-1342
With Offset Rocker Arm Tip

Melling Performance GM LS rocker arms are built from only the highest quality materials and manufacturing processes available. Melling Performance GM LS rocker arms feature an improved OE design ensuring worry free performance and long dependable rocker arm life.

- Cast Steel
- Bolt Mounted
- Self Aligning
- Anti-Rust Finish



GM LS PERFORMANCE SPEED SETS

Double Roller W/ Thrust Bearing; 9 Keyway

| Timing Set Number | Description | Features |
|-------------------|--|--|
| 48561T-9 | 3 Bolt 1X Sensor Cam Sprocket | Billet Steel Cam Sprocket; Keyway Adjustable; Max 4° Advance/retard |
| 48562T-9 | 3 Bolt 4X Cam Sprocket | Stainless Steel Cam Sprocket; Keyway Adjustable; Max 8° Advance/retard |
| 48563T-9 | 3 Bolt 4X Cam Sprocket for 7.0L Engine | Stainless Steel Cam Sprocket; Keyway Adjustable; Max 8° Advance/retard |
| 48565T-9 | Single Bolt 4X Cam Sprocket | Stainless Steel Cam Sprocket; Keyway Adjustable; Max 8° Advance/retard |

*Refer to Melling Catalog for Application Information



48561T-9



48562T-9



48563T-9



48565T-9



GM LS PERFORMANCE SPEED SETS

Single Roller W/ Thrust Bearing; 9 Keyway

| Timing Set Number | Description | Features |
|-------------------|--|--|
| 48560T-9 | 3 Bolt 1X Sensor Cam Sprocket | Billet Steel Cam Sprocket; Keyway Adjustable; Max 4° Advance/retard |
| 48564T-9 | Single Bolt 4X Cam Sprocket | Stainless Steel Cam Sprocket; Keyway Adjustable; Max 8° Advance/retard |
| 48570T-9 | 3 Bolt 4X Cam Sprocket | Stainless Steel Cam Sprocket; Keyway Adjustable; Max 8° Advance/retard |
| 48571T-9 | 3 Bolt 4X Cam Sprocket for 7.0L Engine | Stainless Steel Cam Sprocket; Keyway Adjustable; Max 8° Advance/retard |

*Refer to Melling Catalog for Application Information



48560T-9



48564T-9



48570T-9



48571T-9

Melling Performance timing chain kits provide an efficient and economical way to provide the timing components needed for your performance engine rebuild. Melling Performance timing chain options include silent, single or double roller chains matched with the high quality sprockets needed for the demands of street, strip and racing. Melling Performance chains and sprockets are manufactured from the highest quality materials.



GM LS CAMSHAFT BOLT LOCK PLATE

| Part Number | Material | Thickness | Mounting Hole Diameter | Bolt Length | Bolt Thread Type |
|-------------|----------|-----------|------------------------|-------------|------------------|
| 5461-LPK | Steel | .044 | .340 | 1.393 | Coarse |

*Refer to Melling Catalog for Application Information

Melling Performance provides an aftermarket camshaft bolt lock plate kit for GM LS applications. Camshaft bolt and lock plate kits prevent the camshaft bolts from loosening and therefore preventing costly valve train and engine damage. Melling camshaft bolts and lock plates are manufactured to the most stringent specifications using only the highest quality materials and manufacturing processes to ensure maintenance free performance.



GM LS TIMING DAMPER KIT, BRACKET & DAMPER



BD417-DBRKT Damper Bracket Kit W/Damper



BD417-BRKT Damper Bracket Kit



BD417 Timing Chain Damper

Melling Performance offers a timing chain damper adapter bracket for the early GM LS engines. The adapter bracket is available by itself and is also available with the timing chain damper. The timing chain damper adapter bracket allows the use of LS2 timing chain dampers on any GM LS engine block. The bracket uses the 3 lower cam/thrust retainer plate bolts for attachment. The dampers are manufactured from OE-quality plastic and include mounting bolts. The timing chain damper adapter bracket is manufactured from high quality steel and is designed to provide long lasting worry free performance.

*Refer to Melling Catalog for Application Information



GM LS OIL PUMPS



| Oil Pump Number | Description | Volume | Manf. Pressure | Optional Pressure 1 | Optional Pressure 2 |
|-----------------|---|----------|----------------|---------------------|---------------------|
| 10294 | Low volume, standard pressure. For aftermarket priority main oiling engine blocks | -15% | 60 PSI | 70 PSI (Red) | 85 PSI (COPO) |
| 10295 | Standard volume, high pressure. For Gen 3 and some Gen 4 engines | Standard | 70 PSI | 60 PSI (Blue) | 85 PSI (COPO) |
| 10296 | High volume, high pressure. For Gen 3 and some Gen 4 engines | +18% | 70 PSI | 60 PSI (Blue) | 85 PSI (COPO) |
| 10355 | Standard volume, high pressure. For most but not all Gen 4 engines | Standard | 70 PSI | 60 PSI (Green) | 80 PSI (Green) |
| 10355HV | High volume, high pressure. For most but not all Gen 4 engines | +20% | 70 PSI | 60 PSI (Green) | 80 PSI (Green) |

*Refer to Melling Catalog for Application Information

*Oil pump pressure can vary due to engine clearances and modifications

*Pressure spring color



Melling high performance oil pumps provide dependable performance in every application under the toughest RPM conditions. Melling high performance oil pumps are CNC machined and hardcoat anodized. The cast iron covers are CNC machined and phosphate coated for improved pump performance and durability. The relief valves feature a threaded plug with optional pressure relief springs included. The oil pump pickup tube o-rings are also supplied. Every Melling high performance oil pump is individually tested for pressure and flow ensuring superior performance every time.



ENGINE OIL PUMP PRIMING TANK



| Part Number | Priming Tank Features |
|----------------|--|
| MPL-201 | <ul style="list-style-type: none"> • Eliminates dry starts after engine repairs • Can be used on all internal combustion engines • Large capacity 2 gallon stainless steel tank • Includes 3 adaptor fittings: 1/8 x 1/8 NPT • 1/4 x 1/8 NPT • 1.5 x 1/8 NPT • 75 lb. safety blow off valve • Built in handles for easy transport • 8 ft. chemical resistant hose with wand |



The Melling Engine Oil Priming Tank was developed as a way for engine builders to safely pre-prime the engine with oil prior to initial engine startup. The priming tank, when filled with clean oil and air pressure will supply pressurized oil into all of the critical areas of the new engine quickly and safely.



GM LS OIL PUMP PICKUP TUBE SUPPORT BRACKET



| Bracket Number | Length | Width | Thickness | Material |
|----------------|--------|-------|-----------|----------|
| M29500 | Inch | Inch | Inch | Aluminum |
| | 1.370 | 1.355 | .195 | |

*Refer to Melling Catalog for Application Information



Melling suggests that a new properly installed oil pump pick-up tube/screen be a part of every oil pump installation. For High Performance bolt on oil pump screen applications Melling offers additional oil pump screen support with an Engine Oil Pump Pickup Tube Support Bracket. This lightweight aluminum bolt on bracket provides added support for holding the oil pump screen in place during extreme high performance engine operation.

MELLING GM LS ENGINE PLUGS



| Plug Number | Description | Contains |
|---------------------|--|---|
| MPE-900BR | Brass Engine Plug Kit | (1) Expansion Plug, (4) Pipe Plugs |
| MPE-900BR-GP | Brass Engine Plug Kit w/ Oil galley Plug | (1) Oil Galley Plug, (1) Expansion Plug, (4) Pipe Plugs |
| MPE-901BR | Brass Head Plug Kit | (4) Expansion Plugs |
| MOGP-100 | Oil Galley Plug Gen 3, Gen 4 | (1) Oil Galley Plug |
| MOGP-200 | Oil Galley Plug Gen 5 | (1) Oil Galley plug |

*Refer to Melling Catalog for Application Information

Melling GM LS engine block / cylinder head plug kits. Whether purchased individually, or as an entire engine kit, you can rest assured knowing that the components in these kits are manufactured using only the highest quality materials, ensuring a positive seal every time.



MELLING GM LS CAMSHAFT SPECIFICATIONS



| Camshaft Number | Application | Camshaft Sprocket | Lift Int./Exh. | Duration @ .050 Int. / Exh. | Lobe Separation | RPM Range |
|-----------------|--------------|-------------------|----------------|-----------------------------|-----------------|-----------|
| MTC-7 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .515 / .522 | 206 / 212 | 112 | Idle-5000 |
| MTC-8 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .522 / .529 | 212 / 218 | 114 | Idle-5000 |
| 22201 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .566 / .566 | 223 / 223 | 114 | 2000-5000 |
| 22205 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .585 / .585 | 228 / 230 | 112 | 2200-5500 |
| 22307 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .523 / .524 | 218 / 227 | 112 | 2000-5000 |
| 22309 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .560 / .560 | 216 / 220 | 112 | 2000-5000 |
| 22310 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .575 / .575 | 220 / 224 | 112 | 2000-5000 |
| 22411 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .525 / .525 | 225 / 236 | 110 | 2200-5500 |
| 22412 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .612 / .612 | 236 / 246 | 110 | 3200-6500 |
| 22413 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .551 / .551 | 229 / 240 | 108 | 2200-5500 |
| 22500 | Gen 3, Gen 4 | 3 Bolt / Non AFM | .595 / .595 | 234 / 277 | 107 | 3200-6500 |
| 22414 | Gen 5 LT1 | 1 Bolt / Non AFM | .577 / .577 | 228 / 248 | 116.5 | 2200-5400 |

*Refer to Melling Catalog for Application Information

Melling Performance offers specific high performance camshaft choices for street, RV, strip and circle track racing applications. Melling Performance camshafts are produced from high quality CNC ground billet steel camshaft cores. This material and processing provides tight toleranced, ultra-fine finished lobes and journals.



MELLING GM LS CAMSHAFT THRUST PLATE

| Plate Number | I.D. | O.D. | Thickness | Material |
|--------------|-------|-------|-----------|-------------------|
| | Inch | Inch | Inch | |
| MF127 | 1.679 | 4.980 | .178 | High Carbon Steel |

*Refer to Melling Catalog for Application Information

LS engine camshaft thrust plates consist of a one time use oil gallery seal which is incorporated into the thrust plate. A new thrust plate should be installed anytime that it is removed to ensure a proper seal. Maintaining a positive seal will help to ensure proper oil pressure, and lifter bore lubrication.



MELLING GM LS CAMSHAFT GEAR INSTALLATION TOOL

| Plate Number | Length | Thread Type | Thread Diameter | Bolt Grade |
|----------------|--------|-------------|-----------------|------------|
| | Inch | | Inch | |
| CSIT-LS | 8.000 | Coarse | 0.550 | 12.9 |

*Refer to Melling Catalog for Application Information

Builders have found an issue when assembling the GM LS engines timing sets. Improper installation of the camshaft sprockets or phasers can damage or push the locating pin back into the camshaft during installation. As a result Melling has released the CSIT-LS installation tool which is designed to aid in the installation of both the camshaft and the camshaft sprocket or phaser. The CSIT-LS can be used with both single bolt and 3-bolt cams. The CSIT-LS installation tool is made from alloyed tool steel and heat treated for durability.



GM LS STOCK REPLACEMENT CAMSHAFTS

| Displ. | Year | RPO | VIN | Gen | GM Camshaft | Camshaft Nose | Melling Stock Camshaft Number | Block Material | AFM | VVT | Application Information |
|--------|---------|-----|-----|-----|-------------------|---------------|-------------------------------|----------------|-----|-----|---|
| 4.8L | 1999-07 | LR4 | V | III | 12560967 | 3 Bolt | MC1383 | Cast Iron | | | Silverado/Sierra, Tahoe/Yukon, 2003-07 Express/Savana vans |
| 4.8L | 2007-09 | LY2 | C | IV | 12612274 | 1 Bolt | MC1390 | Cast Iron | | | Silverado/Sierra, Tahoe/Yukon, 2008-09 Express/Savana vans |
| 4.8L | 2010-15 | L20 | A | IV | 12612274 | 1 Bolt | MC1390 | Cast Iron | | X | Silverado/Sierra trucks, Express/Savana vans |
| 5.3L | 1999-07 | LM7 | T | III | 12560967 | 3 Bolt | MC1383 | Cast Iron | | | Silverado/Sierra, Suburban, Tahoe/Yukon, Yukon XL, 2002-2005 Escalade, 2002-2006 Avalanche, 2003-2007 Express/Savar |
| 5.3L | 2002-07 | L59 | Z | III | 12560967 | 3 Bolt | MC1383 | Cast Iron | | | Silverado/Sierra, Suburban, Tahoe/ Yukon, Yukon XL, 2005-06 Avalanche |
| 5.3L | 2003-04 | LM4 | P | III | 12560967 | 3 Bolt | MC1383 | Aluminum | | | TrailBlazer EXT, Envoy XL, Chevy SSR, Buick Rainier |
| 5.3L | 2005-07 | L33 | B | III | 12583623 | 3 Bolt | N/A | Aluminum | | X | Silverado/Sierra w extended cab, short box & 4X4 |
| 5.3L | 2005-06 | LH6 | M | IV | 12569525 | 3 Bolt | MC1391 | Aluminum | X | | Buick RainierCXL, 2005 Buick Rainier CXL Plus, Trailblazer LS & LT, Trailblazer EXT LS & LT, Envoy Denali XL & XUV |
| 5.3L | 2007-09 | LH6 | M | IV | 12569525/12625436 | 3 Bolt | MC1391/MC1394 | Aluminum | X | | 2007 Buick Rainier CXL, 2007-08 TrailBlazer Base, LS, LT, Envoy Denali, Silverado 1500 LT, LTZ, WT, Sierra 1500 SLE, SLT,WT |
| 5.3L | 2007-09 | LY5 | J | IV | 12625436 | 1 Bolt | MC1394 | Cast Iron | X | | Silverado/Sierra, Suburban, Tahoe/Yukon, Yukon XL, Avalanche |
| 5.3L | 2008 | LMF | 4 | IV | 12612274 | 1 Bolt | MC1390 | Cast Iron | | X | Express/Savana vans |
| 5.3L | 2009 | LMF | 4 | IV | 12612274 | 1 Bolt | MC1390 | Cast Iron | | X | Express/Savana vans |
| 5.3L | 2010-14 | LMF | 4 | IV | 12612274 | 1 Bolt | MC1390 | Cast Iron | | X | Express/Savana vans |
| 5.3L | 2007-11 | LC9 | 3 | IV | 12625436 | 1 Bolt | MC1394 | Aluminum | X | | Silverado/Sierra, Suburban, Yukon XL, Avalanche |
| 5.3L | 2012-14 | LC9 | 7 | IV | 12625436 | 1 Bolt | MC1394 | Aluminum | X | | Silverado/Sierra, Suburban, Yukon XL, Avalanche |
| 5.3L | 2007-14 | LMG | 0 | IV | 12625436 | 1 Bolt | MC1394 | Cast Iron | X | | Flex Fuel - Silverado/Sierra, Suburban, Tahoe/Yukon, Yukon XL, Avalanche |
| 5.3L | 2010-12 | LH9 | P | IV | 12612274 | 1 Bolt | MC1390 | Aluminum | | X | Colorado LT1 & LT2 & LT3/Canyon SLE & SLT |
| 5.3L | 2005-06 | LS4 | C | IV | 12569525 | 3 Bolt | MC1391 | Aluminum | X | | 2005-06 Pontiac Grand Prix GXP, 2006 Impala SS, 2006 Monte Carlo SS |
| 5.3L | 2007-09 | LS4 | C | IV | 12625436 | 1 Bolt | MC1394 | Aluminum | X | | 2007-08 Pontiac Grand Prix GXP, 2007-09 Impala SS, 2007 Monte Carlo SS, 2008-09 Buick LaCrosse Super |
| 5.7L | 1997-04 | LS1 | G | III | 12561721 | 3 Bolt | MC1384 | Aluminum | | | 2003 Corvette 50th Edition, 2000-04 Corvette, 2000-02 Camaro Z28 /Z28 SS, 2000-02 Pontiac Firebird & 2004 GTO |
| 5.7L | 2001-05 | LS6 | S | III | 12565308 | 3bolt | N/A | Aluminum | | | 2001-2004 Corvette Z06, 2004-2005 Cadillac CTS V-Series |
| 6.0L | 1999-07 | LQ4 | U | III | 12561721 | 3 Bolt | MC1384 | Cast Iron | | | Silverado/Sierra, Suburban, Yukon, Hummer H2, Express/Savana |
| 6.0L | 2002-07 | LQ9 | N | III | 12561721 | 3 Bolt | MC1384 | Cast Iron | | | 2002-2006 Escalade, Silverado SS, Silverado/Sierra |
| 6.0L | 2007-10 | LY6 | K | IV | 12612274 | 1 Bolt | MC1393 | Cast Iron | | X | Silverado HD/Sierra HD, 2007-09 Suburban/Yukon XL, 2008-09 Express/Savana van |
| 6.0L | 2007-09 | L76 | Y | IV | 12629698/12625438 | 1 Bolt | N/A | Aluminum | X | X | Silverado/Sierra, Suburban, Yukon XL, Avalanche, 2008-09 Pontiac G8 GT |
| 6.0L | 2005-09 | LS2 | H | IV | 12574519/12593206 | 3bolt/1bolt | N/A | Aluminum | | | 2005-06 Chevy SSR, 2006-09 TrailBlazer SS |
| 6.0L | 2005-07 | LS2 | U | IV | 12574519/12593206 | 3 bolt/1bolt | N/A | Aluminum | | | 2005-06 Pontiac GTO, 2005-07 Corvette, 2006-2007 Cadillac CTS-V |
| 6.0L | 2010-15 | L96 | G | IV | 12626660 | 1 Bolt | MC1405 | Cast Iron | | X | Silverado HD/Sierra HD, Suburban, Yukon XL, Express/Savana van |
| 6.0L | 2011-15 | LC8 | B | IV | 12626660 | 1 Bolt | MC1405 | Cast Iron | | X | Silverado/Sierra HD, Express/Savana van, |
| 6.0L | 2011-15 | L77 | 2 | IV | 12625438 | 1 Bolt | MC1392 | Aluminum | X | | Caprice PPV |
| 6.2L | 2007 | L92 | 8 | IV | 12612273 | 1 Bolt | MC1406 | Aluminum | X | X | (1st Design up to 4/10/2006) Escalade, Yukon Denali, |
| 6.2L | 2007-08 | L92 | 8 | IV | 12612273 | 1 Bolt | MC1406 | Aluminum | | X | (2nd Design after 4/10/2006) Escalade, Sierra Denali, Yukon Denali, Tahoe, Silverado |
| 6.2L | 2008-15 | LS3 | W | IV | 12623063/12631811 | 1 Bolt | N/A | Aluminum | | | 2010-2015 Camaro SS, 2014-15 Chevy SS, 2008-2013 Corvette, 2009 Pontiac G8 GXP |
| 6.2L | 2010-15 | L99 | J | IV | 12623066 | 1 Bolt | N/A | Aluminum | X | X | Camaro SS (auto trans only) |
| 6.2L | 2009-13 | L9H | 2 | IV | 12711967 | 1 Bolt | N/A | Aluminum | | X | Silverado/Sierra, Yukon XL, Escalade, Tahoe |
| 6.2L | 2010-14 | L94 | F | IV | 12623066 | 1 Bolt | MC1426 | Aluminum | X | X | Yukon Denali, Yukon XL Denali, Escalade ESV & EXT |
| 6.2L | 2009-15 | LSA | P | IV | 12623064 | 1 Bolt | N/A | Aluminum | | | Supercharged, Cadillac CTS-V, Camaro ZL1 |



GM GEN III AND GEN IV OIL PUMP APPLICATIONS

| Displ. | Year | RPO | VIN | GM O/P Number | Melling O/P Number | Block Material | AFM | VVT | Application Information |
|--------|---------|-----|-----|---------------|--------------------|----------------|-----|-----|--|
| 4.8L | 1999-07 | LR4 | V | 12710303 | M295 | Cast Iron | | | Gen III, 1999-2006 Silverado/Sierra, Tahoe/Yukon, 2003-07 Express/Savana vans |
| 4.8L | 2007-09 | LY2 | C | 12710303 | M295 | Cast Iron | | | Gen IV, Silverado/Sierra, Tahoe/Yukon, 2008-09 Express/Savana vans |
| 4.8L | 2010-14 | L20 | A | 12710303 | M295 | Cast Iron | | X | Gen IV, Express/Savana vans, 2010-13 Silverado/Sierra trucks, |
| 4.8L | 2015-17 | L20 | F | 12710303 | M295 | Cast Iron | | X | Gen IV, Express/Savana vans |
| 5.3L | 1999-07 | LM7 | T | 12710303 | M295 | Cast Iron | | | Gen III, Silverado/Sierra, Suburban, Tahoe/Yukon, Yukon XL, 2002-05 Escalade, 2002-06 Avalanche, 2003-07 Express/Savana |
| 5.3L | 2002-07 | L59 | Z | 12710303 | M295 | Cast Iron | | | Gen III, Silverado/Sierra, 2002-06 Suburban, 2002-06 Tahoe/ Yukon & Yukon XL, 2005-06 Avalanche, 2007 Express/Savana |
| 5.3L | 2003-04 | LM4 | P | 12710303 | M295 | Aluminum | | | Gen III, TrailBlazer EXT, Envoy XL, Chevy SSR, Buick Rainier |
| 5.3L | 2005-07 | L33 | B | 12710303 | M295 | Aluminum | | | Gen III, Silverado 1500/Sierra 1500 |
| 5.3L | 2005-06 | LH6 | M | 12693523 | M355 | Aluminum | X | | Gen IV, Buick RainierCXL, 2005 Buick Rainier CXL Plus, Trailblazer LS & LT, Trailblazer EXT LS & LT, Envoy Denali XL & XUV |
| 5.3L | 2007-09 | LH6 | M | 12710304 | M365 | Aluminum | X | | Gen IV, 2007 Buick Rainier CXL, 2007-08 TrailBlazer, Silverado/Sierra, Envoy Denali |
| 5.3L | 2007-09 | LY5 | J | 12710303 | M295 | Cast Iron | X | | Gen IV, Silverado/Sierra, Suburban, Tahoe/Yukon, Yukon XL, Avalanche |
| 5.3L | 2008 | LMF | 4 | 12710303 | M295 | Cast Iron | | X | Gen IV, Express/Savana vans |
| 5.3L | 2009 | LMF | 4 | 12710304 | M365 | Cast Iron | | X | Gen IV, Express/Savana vans |
| 5.3L | 2010-14 | LMF | 4 | 12710303 | M295 | Cast Iron | | X | Gen IV, Express/Savana vans |
| 5.3L | 2007-11 | LC9 | 3 | 12710304 | M365 | Aluminum | X | | Gen IV, Silverado/Sierra, Suburban, Avalanche, Yukon XL, 2009-11 Tahoe/Yukon |
| 5.3L | 2012-14 | LC9 | 7 | 12710304 | M365 | Aluminum | X | | Gen IV, Silverado/Sierra, Suburban, Yukon XL, Avalanche |
| 5.3L | 2007-14 | LMG | 0 | 12710303 | M295 | Cast Iron | X | | Gen IV, Flex Fuel - Silverado/Sierra, Suburban, Tahoe/Yukon, Yukon XL, Avalanche |
| 5.3L | 2010-12 | LH9 | P | 12710304 | M365 | Aluminum | | X | Gen IV, Colorado, Canyon |
| 5.3L | 2005-06 | LS4 | C | 12693523 | M355 | Aluminum | X | | Gen IV, 2005-06 Pontiac Grand Prix GXP, 2006 Impala SS, 2006 Monte Carlo SS |
| 5.3L | 2007-09 | LS4 | C | 12710304 | M365 | Aluminum | X | | Gen IV, 2007-08 Pontiac Grand Prix GXP, 2007-09 Impala SS, 2007 Monte Carlo SS, 2008-09 Buick LaCrosse Super |
| 5.7L | 1997-04 | LS1 | G | 12710303 | M295 | Aluminum | | | Gen III, 1997-04 Corvette, 1998-02 Camaro Z28 /Z28 SS, 1998-02 Pontiac Firebird & 2004 GTO |
| 5.7L | 2001-05 | LS6 | S | 12710303 | M295 | Aluminum | | | Gen III, 2001-04 Corvette Z06, 2004-05 Cadillac CTS V-Series |
| 6.0L | 1999-07 | LQ4 | U | 12710303 | M295 | Cast Iron | | | Gen III, Silverado/Sierra, Suburban, Yukon, Hummer H2, 2003-07 Express/Savana |
| 6.0L | 2002-07 | LQ9 | N | 12710303 | M295 | Cast Iron | | | Gen III, 2003-07 Silverado, 2005-07 Sierra, 2002-06 Escalade |
| 6.0L | 2007-10 | LY6 | K | 12710303 | M295 | Cast Iron | | X | Gen IV, Silverado HD/Sierra HD, 2007-09 Suburban/Yukon XL, 2008-09 Express/Savana van |
| 6.0L | 2007-09 | L76 | Y | 12710304 | M365 | Aluminum | X | X | Gen IV, Silverado/Sierra, Suburban, Yukon XL, Avalanche, 2008-09 Pontiac G8 GT |
| 6.0L | 2005-09 | LS2 | H | 12710303 | M295 | Aluminum | | | Gen IV, 2005-06 Chevy SSR, 2006-09 TrailBlazer SS |
| 6.0L | 2005-07 | LS2 | U | 12710303 | M295 | Aluminum | | | Gen IV, 2005-06 Pontiac GTO, 2005-07 Corvette, 2006-07 Cadillac CTS-V |
| 6.0L | 2010-20 | L96 | G | 12710303 | M295 | Cast Iron | | X | Gen IV, Express/Savana van, 2010-19 Silverado HD/Sierra HD, 2010-13 Yukon XL, Suburban 2500, 2016-19 Suburban 3500 HD |
| 6.0L | 2011-20 | LC8 | B | 12710303 | M295 | Cast Iron | | X | Gen IV, Express/Savana van, 2013-19 Silverado/Sierra HD |
| 6.0L | 2011-17 | L77 | 2 | 12710304 | M365 | Aluminum | X | | Gen IV, Caprice PPV |
| 6.2L | 2007 | L92 | 8 | 12710304 | M365 | Aluminum | X | X | Gen IV, (1st Design up to 4/10/2006) Escalade, Yukon Denali |
| 6.2L | 2007-08 | L92 | 8 | 12710304 | M365 | Aluminum | | X | Gen IV, (2nd Design after 4/10/2006) Escalade, Sierra Denali, Yukon Denali, Tahoe, Silverado |
| 6.2L | 2008-17 | LS3 | W | 12710303 | M295 | Aluminum | | | Gen IV, 2008-13 Corvette, 2010-15 Camaro SS, 2014-17 Chevy SS, 2009 Pontiac G8 GXP |
| 6.2L | 2010-15 | L99 | J | 12710304 | M365 | Aluminum | X | X | Gen IV, Camaro SS |
| 6.2L | 2009-13 | L9H | 2 | 12710304 | M365 | Aluminum | | X | Gen IV, Silverado/Sierra, Yukon XL, Escalade, Tahoe |
| 6.2L | 2010-14 | L94 | F | 12710304 | M365 | Aluminum | X | X | Gen IV, Yukon Denali, Yukon XL Denali, Escalade ESV & EXT |
| 6.2L | 2009-15 | LSA | P | 12710304 | M365 | Aluminum | | | Gen IV, Supercharged, Cadillac CTS-V, Camaro ZL1 |

Interchange

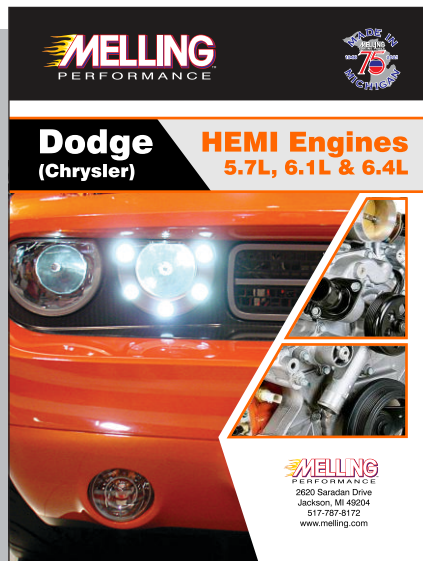
| GM O/P | Melling O/P | DISPL. (cuin/rev) | PRV (psi) | |
|----------|-------------|-------------------|-----------|--|
| 12710303 | M295 | 0.96 | 37 | Supercedes 1269357, 12678151, 12586665, 12606311, 12563964, 12674648 |
| 17801830 | M295 | 0.96 | 37 | Stock volume, stock pressure pump available through GM Performance (No change from stock pump) |
| 12693523 | M355 | 1.28 | 63 | Supercedes 12571885, 12596274 |
| 12710340 | M365 | 1.28 | 53 | Supercedes 12612289 |
| N/A | M295HV | 1.14 | 47 | High volume, high pressure pump |
| N/A | M365HV | 1.53 | 63 | High volume, high pressure performance pump |

Interchange (continued)

| GM O/P | Melling O/P | DISPL. (cuin/rev) | PRV (psi) | |
|----------|-------------|-------------------|-----------|--|
| N/A | 10295 | 0.96 | 47 | Stock volume, high pressure performance pump |
| 19301144 | 10295 | 0.96 | 57 | Use optional plain spring to increase pressure +10psi (=25 psi over GM 12586665) COPO Camaro |
| N/A | 10296 | 1.14 | 47 | High volume, high pressure performance pump |
| N/A | 10355 | 1.28 | 63 | Stock volume, high pressure performance pump |
| N/A | 10355HV | 1.53 | 63 | High volume, high pressure performance pump |

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- Cylinder Sleeves
- Speciality Items and Installation Tools

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