

OFF ROAD DIVISION · CATALOG

PLUG & PLAY POWER

UMI Racing was founded in 1986 by President Scott Urschel. Scott's aviation background and aerospace manufacturing facility brings a very high standard to all of UMI's aftermarket product lines. Our 17,000 sq ft facility is located at the Scottsdale Airpark in Scottsdale, AZ.

Flying helicopter air support for more than a dozen BAJA races for Top drivers Larry Ragland and Mark Miller, Scott saw the need for a cost effective high performance, reliable engine package. After spending months looking for an engine package for his own car, Scott became frustrated with availability of packages on the market. UMI started dyno testing a number of GEN III (LS-1 engine combinations and ECU's). Once testing was complete UMI was sure they had a winning combination. Mark Miller and Ryan Arcerio took the UMI racing 6.0 liter Gen III to victory lane in the 2002 BAJA 500 Trophy Truck class. Not just luck, Mark and Ryan went on to win the Baja 500 and the Baja 1000 in 2003. Not satisfied, UMI Racing continues to develop increased Horsepower engines and integrate more features everyday. UMI was the first to develop Digital dash interface with the System 4B ECU's. Continually developing new accessories in our CNC machine shop with the aid of the latest 3D modeling software. UMI Racing is on the forefront of the latest engine packages.



Mark Miller



Larry Ragland



Robby Gordon



Ryan Arciero

Mark Miller "I had been plagued by wiring and ecu problems prior to changing engine builders. Since I switched to UMI Racing engines, Ryan and I have won the Baja 500 and Baja 1000 in the same year plus came back to win a second consecutive straight Baja 500 along with the Parker 400. From building, tuning engine packages, and the best helicopter air support, UMI does it all for my team!"

Ryan Arcerio "After winning 3 Baja Trophy Truck races with UMI Racing engines there is no other engine package I will use for our team. In the Baja 1000 we ran our UMI engine over 12 hours straight to a first place victory in the Trophy Truck class and 2nd overall. I think that achievement speaks for itself."

Larry Ragland (5 time overall Baja 1000 winner) demands performance and reliability from his engines. That's why he uses UMI Racing engines in his Baja Prerunner, Larry says, "no one wants to worry about breaking down in Baja when you're mapping out the coarse with the GPS, that's why I rely on UMI's engines to run the coarse several times."

Robby Gordon A six time off-road champion and now a top NASCAR driver for Richard Childress's number 31 Cingular car. Robby says, "I tested the UMI Racing LS-1 ASA engine for my pre-runner and I was so impressed with the performance that I use UMI engines exclusively on all my pre-runners."



Why Buy UMI Racing Engines?

Performance: UMI racing strives for the best possible tune. Starting with tuning our engines on a Dynamic Test Systems Engine Dyno. From cold starts to full load calibrating, from 1,500 rpm and up, you need the best possible tune throughout the entire rpm and load band (not just wide open throttle). Performance matters to Mark Miller, Larry Ragland and Robby Gordon and that's why they choose UMI Racing engines.

Durability: All UMI racing engines are built from factory new crate engines using GM Racing new parts; along with the best after market parts, Delphi ECUs factory style machine crimped and tested wire harness with environmentally sealed fuses and relays.

Dependability: Through rigorous engine dyno testing and calibration development plus race proven results in the grueling Baja 500, Baja 1000/Robby Gordon tested the first Learn Octane program in his prerunner. UMI programs include this feature. We use 2 timing calibrations, one tuned on low octane gas and the other on high octane. As engines senses detonation (knock), it will learn a new timing value to prevent detonation, but yield maximum performance. This feature resets with every ignition on cycle.

Engine Dyno Tuning: Engine Dyno's provide UMI with the ability to tune the engine through the entire rpm and load range. The end result is the best performance possible. SEA corrected crankshaft horsepower available from the engine dyno's are much more accurate than converting backwards from a wheel dyno to crank shaft horsepower. This is why the top off road INDY, NASCAR, and offshore race boat teams, tune and rate their Horsepower and Torque with engine Dyno's.

Leading the Pack: UMI Racing worked with Racepak to develop the CAN interface for the new digital dash and gauges for the Delphi System 4B ECU's. We supply every engine with GM factory sensors. Including Fuel Pressure (fuel pressure is critical to the performance of your engine) Oil temp, Oil pressure, Water temp, O-2, Vacuum /Boost and wheel speed. Our engine packages are programmed and pre wired for plug and play Dash/Gauge interface. When using our Racepak Dash package, there are no additional sensors to purchase for basic engine gauges.





LS-1 LS-6 6.0L Motor Packages



LS-1 LS-6 6.OL Motor Packages

www.umiracing.com

OFF-ROAD



LS-1 LS-6 6.OL Motor Packages



LS-1 LS-6 6.0L Engine Accessories





LS-1/LS-6 Alternator Bracket Kit

Billet 6061-T6 Aluminum bracket available in polished(SC-01000), anodized clear(SC-01000-CLR) or hard anodized black (SC-01000-BKA) finishes. These brackets are designed to mount the alternator off of the cylinder head providing maximum clearance in the vehicle. An additional feature is a mounting hole for an additional idler pulley to provide added belt wrap on the water pump for high horse power engines. Includes hardware & GM alternator plug w/ pins. For use with GM part #10464438 alternator 105 amp. Note: when used on LS-6 or Corvette engine, replace damper with GM #12553118 & Belt tensioner with GM # 12560344. (Hard black anodized, for Off-road and racing applications)

SC-01000 \$149.95 SC-01000-BKA \$169.95 SC-01000-CLR \$169.95

Alternator Idler Kit

Increase Belt wrap on LS-1 or LS-6. For use with UMI Alternator Bracket Kit. SC-01000

SC-01005 \$63.95



Machined from 6061-T6 Aluminum, available in polished(SC-01010), anodized clear (SC-01010-CLR) or hard anodized black (Sc-01010-BKA), finishes. Includes chrome idler shaft. For use with Howe Power Steering Pump with a 5.375" serpentine pulley. Idler shaft uses either GM #12564401 Idler pulley or UMI Idler SC-01030. *Must be used with Camaro damper GM # 12553118 for proper belt alignment. (Hard black anodized, for Off-road and racing applications)

SC-01010 \$99.95 SC-01010-BKA \$119.95 SC-01010-CLR \$119.95

Solid Belt Tensioner Kit

Replaces GM# 12560345. Prevents resonance at around 4000 RPM that may cause the belt to come off the tensioner. This belt tensioner is a solid non-sprung loader tensioner that replaces the stock spring tensioner. Can be used with factory pulley from original tensioner or used with UMI tensioner SC-01020. Comes complete with all hardware. Available in polished (SC-01013), anodized clear (SC-01013-CLR), or hard anodized black (SC-01013-BKA).

SC-01013 \$129.95 SC-01013-BKA \$149.95 SC-

SC-01013-CLR \$149.95

*Note: When used on LS-6 engine, replace damper with GM# 12553118 & Belt Tensioner with GM #12560344







LS-1 LS-6 6.0L Engine Accessories





Pulley Tensioner Assembly

Machined from 6061-T6 Aluminum, polished. Includes high speed bearing and snap ring. For use with LS-1 or LS-6 Belt Tensioner.

SC-01020 \$60.00



Pulley Tensioner Assembly

Machined from 6061-T6 Aluminum. Includes high speed bearing and snap ring. For use with LS-1 or LS-6 Belt Tensioner. Hard black anodized, for Off-road and racing applications

SC-01020-BKA \$79.95



Pulley Tensioner Assembly

Machined from 6061-T6 Aluminum, Clear Anodized. Includes Bearing and snap ring. For use with LS-1 or LS-6 Belt Tensioner.

SC-01020-CLR \$69.95



Pulley Alternator Assembly

Machined from 6061-T6 Aluminum, polished. Use with Corvette or GM 105 amp alternator.

SC-01025 \$60.00



Pulley Alternator Assembly

Machined from 6061-T6 Aluminum. Use with Corvette or GM 105 amp alternator. Hard black anodized, for Off-road and racing applications

SC-01025-BKA \$79.95



Pulley Alternator Assembly

Machined from 6061-T6 Aluminum, clear anodized. Use with Corvette or GM 105 amp alternator.

SC-01025-CLR \$69.95

LS-1 LS-6 6.0L Engine Accessories



Machined from 6061-T6 aluminum, polished. Includes high speed bearing and snap ring. For use with UMI Power Steering Bracket Kit SC-01010. Replaces GM part #12564401. SC-01030 \$60.00

Power Steering Pulley Idler Assembly Power Steering Pulley Idler Assembly Power Steering Pulley Idler Assembly

Machined from 6061-T6 aluminum, hard black anodized. For Off-road and racing applications. Includes high speed bearing and snap ring. For use with UMI Power Steering bracket Kit SC-01010. Replaces GM part #12564401. SC-01030-BKA \$79.95

Machined from 6061-T6 aluminum, clear anodized. Includes bearing and snap ring. For use with UMI Power Steering bracket Kit SC-01010. Replaces GM part #12564401. SC-01030-CLR \$69.95



Oil Pressure Fitting Kit

Oil Pressure Adaptor for LS-1, LS-6 6.0 liter M16 x 1.5 to 1/8" pipe.

SC-01014 \$14.95



Fuel Accumulator Tank

A must for off-road applications prevents fuel pressure surge. Includes removable 100 micron screen w/ 3/8" barb fitting and AN-6 fittings. For use with high-pressure fuel injection systems. SC-01080 \$29.95



Oil Filler Assembly

Weld in Polished Oil Filter for LS-1, LS-6 6.0 liter. Includes anodized cap & O-ring.

SC-01035 \$54.95

LS-1 LS-6 6.0L Engine Accessories

WWW.UMIRACING.COM



CNC Ported Throttle Body

CNC ported throttle body. When used with the LS6 or 6.0-liter Intake Manifold and ASA cam and Imperial Length: 66 3/4" we have seen as muck as 5 horsepower increase Top Width: 27/32" above 4,500 rpm on the engine dyno. This is a production part, ported by UMI. The throttle blade shaft is milled on both sides to reduce the cross-section, and W.O.T. position is adjusted for minimum cross-sectional area

SC-01201 \$139.95



Belt Alternator Only

Attributes: Belt - Serpentine # of Ribs: 6 Angle Degree: 40 Degrees

SC-01220 \$45.00



Belt Power Steering & Alternator

Attributes: Belt - Serpentine Alternator & Power Steering pump Imperial Length: 77 5/8" Top Width: 27/32" # of Ribs: 6 Angle Degree: 40 Degrees

SC-01225 \$48.00

USA



Straight Headers

Headers are ceramic coated Includes mufflers and 0-2 bung.

SC-03000 \$850.00



Drop Style Headers

Headers are ceramic coated Includes mufflers and 0-2 bung.

SC-03100 \$900.00

LS-1 LS-6 6.0L Engine Accessories





Airaid 6" Cone Filter

Flange - 4 Base - 6 End Cap - 4.625 Filter Length - 6

SC-02006 \$54.84



Airaid 9" Cone Filter

Flange - 4 Base - 6 End Cap - 4.625 Filter Length - 9

SC-02009 \$61.40



Bosch Fuel Pump

Bosch high pressure pump with 12mm-AN-6 fitting and crush washer with 3/8" hose barb inlet. (Pre-filtering fuel before the inlet to this pump is mandatory)

SC-04000 \$326.20



Airaid Pre-Filter for 6" Cone Filter Airaid® Pre-Filters are designed to provide extreme protection through maximum filtration. Manufactured from durable polyester material. This unique material contains uniform micron openings that will filter our debris .005 and larger. Airaid® Pre-Filters are also designed to be water resistant for added protection. Dyno and flowbench testing has show that there is no significant loss in horsepower or airflow from the use of this product. SC-02116 \$30.29



Airaid Pre-Filter for 9" Cone Filter Airaid[®] Pre-Filters are designed to provide extreme protection through maximum filtration. Manufactured from durable polyester material. This unique material contains uniform micron openings that will filter our debris .005 and larger. Airaid[®] Pre-Filters are also designed to be water resistant for added protection. Dyno and flow-bench testing has show that there is no significant loss in horsepower or airflow from the use of this product. SC-02119 \$31.29



Bosch Fuel Filter Kit

Bosch high-pressure fuel filter includes 2, 14mm-AN-6 aluminum fittings and crush washers to be used on the outlet side of the pump.

(800) 275-1615

SC-04100 \$59.00

LS-1 LS-6 6.0L Engine Accessories





Aeromotive Fuel Pressure Regulator

Aero motive A-1000 fuel pressure regulator. Provides two -6 AN inlet ports and one -6 AN return port. Fuel pressure will rise on a 1:1 ratio when referencing boost. 1/8" NPT gauge port. Includes 0-100 PSI gauges.



GM 3/8" to AN-6 Fuel Inlet

Machined Aluminum, double O-ringed. GM 3/8" tube to AN-6 fuel inlet fitting.

SC-05038 \$24.95



GM 5/16 to AN-6 Fuel Return

Machined Aluminum, double O-ringed. GM 5/16" tube to AN-6 fuel return fitting.

SC-05516 \$24.95

SC-05000 \$219.89



Oil Sending Plug LS-1

Replaces plastic oil level sending unit on LS-1, LS-6 6.0 liter oil pans.

SC-01040 \$25.95



EGR Plug

Machined from 6061-T6 Aluminum, Polished. For LS-1 6.0 truck manifolds. Use with GM #12557932 Seal.

SC-01045 \$25.95



Oil Filter Relocater Assembly UMI's anodized billet oil filter adaptor utilizes AN-10 fittings. These are the proper size fittings to reduce loss of oil flow when adding remote oil filters and coolers. This two-piece design allows locating of the outlet fitting to prevent interference with additional accessories. Complete with o-rings and fittings.

SC-01050 \$99.95

LS-1 LS-6 6.0L Engine Accessories







	INTELLI-GAUGE	SELECTION BLACK FACE	WHITE FACE
TACHOMETER 1,0	000-10,500 RPM	250-IG-100B	250-IG-100W
WATER TEMPERATURE (Street)	100°-280°F	250-IG-110B	250-IG-110W
WATER TEMPERATURE (Race)	60°-200°	250-IG-120B	250-IG-120W
OIL TEMPERATURE	140°-280°	250-IG-130B	250-IG-130W
EXHAUST GAS TEMPERATURE	600°-1,600°	250-IG-140B	250-IG-140W
CYLINDER HEAD TEMPERATURE	E 100°-600°	250-IG-150B	250-IG-150W
TRANSMISSION TEMPERATURE	50°-350°	250-IG-135B	250-IG-135W
OIL PRESSURE	0-100 psi	250-IG-160B	250-IG-160W
FUEL PRESSURE (Low)	0-15 psi	250-IG-170B	250-IG-170W
FUEL PRESSURE (High)	0-100 psi	250-IG-165B	250-IG-165W
BRAKE PRESSURE	0-1,500 psi	250-IG-180B	250-IG-180W
NITROUS PRESSURE	0-1,600 psi	250-IG-175B	250-IG-175W
PRESSURE (Generic)	0-200 psi	250-IG-190B	250-IG-190W
BOOST / VACUUM	30 psi-0-30 ln. hg	250-IG-215B	250-IG-215W
VACUUM	0-30 ln. hg	250-IG-210B	250-IG-210W
VOLTS	8-20	250-IG-200B	250-IG-200W

INTELLI-GAUGE Selection Chart

WWW.umiracing.com

ORDERING	Please have your order prepared with part numbers and descriptions prior to calling. All items can be checked for availability at the time of the order. Orders may be placed by fax, phone, mail or internet on our website at www.umiracing.com.
BACK ORDERS	Back ordered products will be shipped as soon as they become available if less than 30 days from original order date. You will be contacted by fax or phone of any back orders older than 30 days prior to shipping.
Shipping	All orders are shipped on a same day basis time permitting. Orders are shipped UPS Ground, 3 day ground track, 2 day air or Next day air, whichever you choose. Special shipping arrangements must be made when the order is placed. Any shortages or discrepancies must be reported to us within 7 working days.
PRICES	All listed prices are F.O.B. Scottsdale, Arizona. All prices subject to change without notice.
PAYMENT	U.S. Dollars in the form of cash, cashiers check or wire transfer. Orders can be shipped C.O.D./Certified Funds. U.M.I. does not accept personal checks. 50% Deposit on all motor orders.
INTERNATIONAL ORDERS	All international orders must be pre-paid in U.S. dollars in the form of cashiers check or wire transfer and will be shipped "freight collect". It is very important that all orders that are sent by fax, mail or e-mail contain exact shipping address and entire fax number (include city code and country code). When we receive an order we can send an order confirmation by fax, mail or e-mail with pricing and availability for your approval and payment.
WARRANTIES	All U.M.I. manufactured products are warrantied to the original purchaser for 90 days for material and workmanship. All items returned for warranty must be accompanied by a copy of the original invoice and a returned authorization number. All items returned for reasons other than warranty or a manufacturers mistake will be subject to a 15% restocking fee.

TERMS & CONDITIONS

