

TERMS & CONDITIONS

CONTENTS

TERMS C.O.D. or Credit Card. Axles and special built products require a deposit as do items requiring shipment by methods other than UPS. Credit Card usage will expedite order processing. We accept money orders, certified checks or official bank checks only for C.O.D. orders. UPS will no longer accept cash for C.O.D. shipments. If a C.O.D. delivery is refused we will not ship C.O.D. on future orders; prepayment will be required. We accept Visa, Master Card, American Express and Discover. All credit card orders must be shipped to the billing address of the card only.

AXLE ORDERING In the catalog there is a sample of the dimensions needed to place an axle order. Before phoning, read this carefully and familiarize yourself with the terminology and how measurements are to be taken. This will allow us to accurately complete your order, and lessen the chance of a costly mistake.

SHIPMENTS F.O.B. Louisville, Colorado (Denver-Boulder Metro Area). Unless otherwise specified UPS will be utilized.

FOREIGN SHIPMENTS Unless restricted by law, MW will ship to foreign customers. Full purchase price (in U.S. currency) must accompany order. No C.O.D. shipments. Name of desired freight carrier, and shipping method must be included with order. Unless specified UPS World Ship will be used.

CLAIMS Claims for damages, open or concealed, or shortages must be made within five (5) days of receiving an order. Damage claims should be made with the freight company first and shortage claims with Mark Williams Enterprises. In the event of a damaged package, keep all packaging boxes and materials. All shipments are accurately weighed before shipping. If there is a part shortage check the shipment weight to see if it matches the shipping weight. This is the first step to determining if parts were lost in transit.

RETURNS Axles, driveshafts, housings and specially produced parts cannot be returned! Other merchandise requires permission and is subject to a 15% handling charge. Shipping charges on returned items must be prepaid. MWE does not allow returns after 90 days.

ORDERING All orders are processed on an in-house computer. Customer numbers are generated from your zip code plus 2 computer assigned numbers. If possible, please use catalog part numbers and your customer number. Toll free order lines are open weekdays from 8:00 AM to 5:00 PM mountain time. Parts can be ordered 24 hours per day on line at www.markwilliams.com.

BACK ORDERS All back orders will be shipped as soon as the item is restocked. If a back order is no longer wanted please call 1-800-525-1963 or 303-665-6901 and cancel the item(s).

PRICES Prices are subject to change without notice.

WARNING Modification of your car's chassis or driveline to enhance performance with the parts identified in this catalog may create a dangerous condition which could cause serious bodily injury. The buyer hereby expressly assumes all risks associated with any such modifications.

DISCLAIMER OF WARRANTY Seller disclaims any warranty express or implied with respect to the parts sold hereby whether as to merchantability, fitness for particular purpose, or any other matter.

SPECIFICATIONS Non-critical specifications are subject to change without notice.

8.8 Ford Components	36
9" Ford Rears and Components	32-35
A-Arm Front End Materials Kit	79
Alignment Bar, Rear Housing and Chassis	60, 86
Anti-Roll Assemblies	80
Axles, Hi- Torque & Truck, forged steel (rear)	5-6, 10
Axle Stud kits	8-9
Bearings, Rear Axle	5-6
Brake System Components	65-66
Brakes, Front, Steel	60-61
Brakes, Rear, Steel and Carbon Fiber	63-64
Brake Levers/Pedal	81
Chassis Blueprints	89-90
Chassis Tabs	84
Chromoly Tubing, Plate, and Tube Bends	85
Chevrolet 12-bolt Rears and Components	39-41
Computer Pickup Assemblies	74
Corvette Axle Kits and Componets	12-15
Couplers, Solid Splined Driveshafts,	77
Crackel-Safe Driveline Disconnects	87
CV Axle Shafts and Components	73, 87
Dana 60 Components	37-38
Driveshafts, steel, aluminum & carbon fiber	67-70
Driveshaft Internal Slip, Mustang & Hellcat	70
Drive shafts, Dragster CV Joints	87
Dzus Buttons, Tabs, Springs	84
Filler Caps and Bungs	58
Front Axles and Torsion Assemblies	79-80
Full Floater Assemblies	57-58
Gears, Ring and Pinions	19-24
Gear Oil	25
M-W Corrosion Inhibitor	27
Housing Ends and Retainers	59
Housing Street Weld on End Kits	6
Installation Kits for Gear Sets	19-24
Jaguar XK Axle Hub Kits	15
Lug Nuts and Washers	9
Labor Operations	43
Master Cylinders	66
MasterLine Components	88
Modular Axle Housings and Components	44-56
Mopar Components (8 3/4)	42
Morse Cables and Accessories	82
Motor Plates and Clamps	84
Olds /Pontiac Components	43
Off Road Driveline	10, 73
Pinion Depth Checker	26
Pinion Supports	31
Posi-traction and Locker Units	33, 36, 37
Promotional Items	90
Rear End Replacement Caps	34, 36, 38, 41
Rod Ends, Tube Adaptors and Jam Nuts	82-83
Spindles, front	79
Steering Boxes	79
Steering Wheels and Q/R Hubs	78
Torsion and Anti-Roll Assemblies	80-81
Thirdmembers Assemblies	27-29
Tools	26, 86
Tube Adapters	83
Yokes, transmission and pinion	71-73



1480 ALUMINUM & CHROMOLY DRIVESHAFTS

1480 series Drive Shafts, Transmission and Rear Yokes is the next step up for Pro-Mod and other High Powered combinations. The oversize joints create a driveshaft that is up to 40% stronger than 1350 series joints. The 1480 series shafts are available in 3-1/2" Chromoly and 4.0" 7075 Aluminum Accu-Bond™ shafts.

Pair either driveshaft with our 1480 series transmission yoke and pinion yokes for the ultimate in precision and strength. Steel pinion yokes are available for 9" Ford 35 spline pinion, GM 14 Bolt rears, and MW 12"40 spline pinion. Also we have Aluminum 7075 Pinion yokes for 9", 9-1/2", 10" Ford 35 spline and MW 12"40 spline pinion. Mating U-bolt kits are required for the pinion yokes. Transmission yokes currently available are 16, 32 and 35-spline Lenco/B&J, 32-spline Liberty roller-bearing yokes, 32-spline Turbo 400, and 40 spline. Drive Shafts are priced less transmission yoke.

MW has raised the bar again for quality and strength in driveline products.

39880
3-1/2" 1480
driveshaft shown with
39070 trans yoke



39890
4" 7075 aluminum 1480
driveshaft shown with
39076 trans yoke

39880 3-1/2 1480 Chromoly Driveshaft730.00
3.5" x 0.083" wall chromoly tubing. With cold forged precision 1480 universal joints and balancing,(Trans yoke sold separate). Meets SFI 43.1

39890 7075 Driveshaft1670.00
Accu-Bond™ 4" O.D. x .100" 7075 aluminum tube, MW billet 7075-T6 end yokes and cold forged precision 1480 series U-joints. (Trans yoke sold separate) Meets SFI 43.1

1480 SERIES TRANSMISSION YOKES

Mark Williams Heavy Duty 1480 series transmission yokes are 100% machined from hot-forged chromoly. The Heat-treat hardness is compatible for use in roller bearing tail housing transmissions. Shot Peening after heat-treating gives a added fracture resistant durability.

Similar to our 1350 series yokes, they feature the same Patented Reduced Mass™ profile with the larger 1480 U-joint that is 40% stronger than standard 1350 U-joints. These yokes are designed for high power applications where strength is more important than the assembly's weight. Matching pinion yokes are available for popular differential applications.

39070	MW 1480 Series Transmission yoke . . . . .	.409.00
	<i>16-spline, Lenco and G-Force, 1480 joint, D=4.50"</i>	
39071	MW 1480 Series Transmission yoke . . . . .	.409.00
	<i>32-spline, Lenco, 1480 joint, D=4.50"</i>	
39074	MW 1480 Series Transmission yoke . . . . .	.409.00
	<i>32-spline, Liberty, Jerico 1480 joint, D=6.15"</i>	
39076	MW 1480 Series Transmission yoke . . . . .	.409.00
	<i>32-spline, Turbo 400, 1480 joint, D=6.15"</i>	
39176	MW 1480 Series Rapid Release Transmission yoke . . . . .	.442.00
	<i>32-spline, Turbo 400, 1480 joint, D=6.15"</i>	
39079	MW 1480 Series Transmission yoke . . . . .	.409.00
	<i>35-spline, Lenco, 1480 joint, D=4.25"</i>	
39095	MW 1480 Series Transmission yoke 35 spline . . . . .	.409.00
	<i>35 spline Liberty Trans 1.9685" barrel, 1480 joint, D=6-1/8"</i>	



39076
Turbo 400

toll free
800-525-1963

on the web
www.markwilliams.com

INTERNAL SLIP 7075 DRIVESHAFT

MUSTANG GT500 DRIVESHAFT

The MWS series (Mark Williams Slip) shafts were designed for the Mustang GT500 and similar models. This replaces the two-piece steel shaft that cannot handle the torque and 150+ mph speeds, and eliminates the center driveshaft support bearing with the internal slip feature. This MWS-500 shaft is made with the exclusive Gold Finish 7075 aluminum material, which is both stronger and lighter than common aluminum driveshafts, making it able to perform under the stresses where the two-piece steel shafts fail. The MW patented boding process is used to join the end fittings, proving much stronger than the standard welding method. This shaft is made to match any Mustang transmission (automatic or stick shift) and differential flange with a 2" male pilot and 1/2" bolts on a 3" center square bolt pattern. Cars equipped with 9" Ford differentials can take advantage of this shaft using a 1350 series universal joint pinion yoke or our new Generation III 9" Ford pinion flange connection system. These shafts utilize precision Spicer 1350 universal joints and are Hi-Speed balanced to G30 specifications. The shaft run out is closely controlled. In addition, each shaft is torsion tested for additional quality assurance. Different shaft flange yoke combinations are available for attachment to different transmissions and differentials. Specific models can be designed for other applications.



**U.S. Patent
7,485,045 B2**

MWS-500 GT500 Driveshaft, Internal Slip <i>with 2 shaft flange yokes</i>	.2199.00
MWS-509 Driveshaft, Internal Slip <i>with 1 shaft flange yoke</i>	.1866.00
MWS-510 Driveshaft, Internal Slip <i>Without flange yokes utilizes standard 1350 end yokes</i>	.1716.00

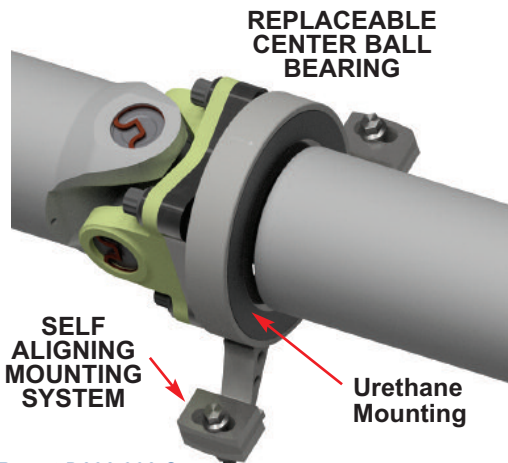
HELLCAT DRIVESHAFT

The Dodge Challenger and Charger SRT Hellcat needed some help in the driveshaft department. The factory carbon fiber shaft is a nice part but not up to the requirements when you start modifying the power output. The fact that this car has a relatively long distance from the transmission to the differential eliminates producing a one-piece shaft for high speeds and high RPM requirements. Our design utilized the two-piece construction as dictated by the shaft critical speed requirements.



*Complete MWS-600 Driveshaft assembly,
configured for Charger with Auto
Transmission*

39157



Construction features are:
A ridged mount system, United States Design Patent D828,238s Features a sealed bearing mounted in urethane to dampen noise, with a drive lug connecting method.

The strength is assured with the AccuBond™ connection to a 7075 aluminum tube. This is our offering for the strongest high RPM capable driveshaft for the Hellcat.

Patent D828,238 S

MWS-600 Hellcat Challenger Driveshaft Assy <i>Hellcat Challenger Manual Transmission</i>	.4377.00
MWS-601 Hellcat Driveshaft Assembly <i>Charger Automatic Transmission</i>	.4790.00
MWS-604 Hellcat Driveshaft Assembly <i>Automatic Transmission with 9" Rear</i>	.4640.00



TRANSMISSION YOKES

MW heavy-duty transmission yokes have been designed to incorporate Spicer 1350 series U-joints and are forged from heat treated 4340 steel. All yokes are 100% machined in house on MW's state-of-the-art CNC machines. Special fixtures are used to guarantee that all machining is done in relationship to the spline pitch diameter. This assures concentricity and produces a yoke that is symmetrical and balanced for smooth operation. All models are thru hardened heat treated to over 200k PSI that is compatible with roller bearing tail housings. All transmission yokes receive Shot Peen process as an extra precaution preventing surface crack formation. U-joint cup bores are line-honed to exact limits and the bearing-bushing/seal surface machined with special fixtures assuring concentricity with the spline pitch diameter. An added step is the retaining ring surfaces are trimmed to assure an exact fit for the u-joint.



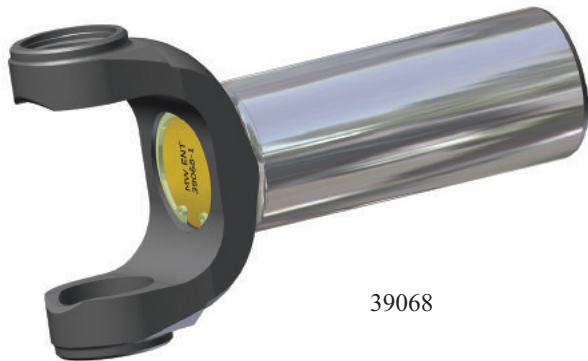
MW First!
O-Ring Plug Seal

Like all MW product's they are laser engraved with part numbers and batch numbers that allow complete trace-ability. An end of spline sealing is with an o-ring seal with a tapered retaining ring that forces a aluminum plug against the seal. This improved method has proven to eliminate fluid seepage.

Please note that there is a difference in diameters between a needle bearing tail housing, and a bushed tail housing, for same brand transmissions. Nobody goes thru all these steps to produce the highest quality Transmission Yokes as Mark Williams.

39002	MW Chrysler Transmission Yoke	235.00
	<i>30 spline, for 1350 series U joint. Mopar, Doug Nash and Liberty trans. for bushing 1.680" Diameter, "D" = 6-1/8"</i>	
39004	MW Turbo 400 Transmission Yoke	235.00
	<i>32 spline, for 1350 series U joint. Turbo 400 and Super T-10 trans. 1.886" barrel for roller or bushing "D" = 5-3/4" 1.886" Dia</i>	
39005	MW Powerglide Transmission Yoke	235.00
	<i>27 spline, for 1350 series U joint. Powerglide and Turbo 350 trans. for bushing 1.5035 diameter "D" = 5-13/16"</i>	
39013	MW Lenco Transmission Yoke	235.00
	<i>32 spline, for 1350 series U joint. Lenco trans. For exposed output shaft. "D" = 4"</i>	
39015	MW Lenco Transmission Yoke	235.00
	<i>16 spline, for 1350 series U joint. Lenco trans. For exposed output shaft. "D" = 4"</i>	
39020	MW C-6 Ford Transmission Yoke	235.00
	<i>31 spline, for 1350 U joint. C-6 & Toploader Transmissions. For bushing 1.6845" Dia "D"=6-1/8"</i>	
39021	MW Lenco Transmission Yoke	235.00
	<i>35 spline, for 1350 series U joint. Lenco trans. For exposed output shaft. "D" = 4"</i>	
39022	MW Ford C-4 Transmission Yoke	235.00
	<i>28 spline, for 1350 series U joint. C-4 trans. For bushing 1.6845 diameter "D" = 5-13/16"</i>	

39031	MW 904 Torqueflight	235.00
	<i>26 Spline, for 1350 Series U joint, 904 Torqueflight, For bushing 1.559" diameter "D"=6-1/8"</i>	
39040	MW G-Force Transmission Slip Yoke	235.00
	<i>16 spline, for 1350 series U joint. G-Force or Lenco trans. For exposed output shaft. "D" = 3 1/2"</i>	
39060	32 Spline Aftermarket Trans. Yoke	235.00
	<i>32 spline, for 1350 series U joint. . G-Force or Lenco trans. For exposed output shaft "D" = 3 1/2"</i>	
39032	Mopar-Liberty Slip Yoke	235.00
	<i>30 spline. Liberty trans. for roller bearing 1.750" Diameter "D"=6-1/8"</i>	
39034	32 Spline Aftermarket Trans. Yoke	235.00
	<i>32 spline. Jerico and G Force trans. 1.885" diameter mostly bushing but some manufactures roller bearing "D" = 6-1/8"</i>	
39035	Powerglide Slip Yoke	235.00
	<i>27 spline. Powerglide for needle bearing 1.500 Diameter Tail-Housing. "D" = 5-13/16"</i>	
39057	32 Spline Aftermarket Trans. Yoke	235.00
	<i>32 Spline, Jerico for roller bearing 1.888" Diameter. "D" = 6-1/8"</i>	
39068	32 Spline Aftermarket Trans. Yoke	235.00
	<i>32 Spline, for roller bearing 1.888" Diameter. "D" = 6-7/16" Two splines omitted , side fit splines 1.888" barrel Diameter</i>	



39068



39057-TP

This handy tool keeps transmission gear lube from exiting the transmission when removing your driveshaft between runs. It has a knurled end for turning the output shaft to realign the clutch. Fits all 32 spline transmissions with 1.885-1.888 " seal diameter. (Liberty, Jerico, & Richmond manual transmissions.) Will also work as a plug in the Turbo 400 and 4L80 automatic transmissions. Installation - Service instructions can be found on Service Bulletin #0037.

39057-TP	Trans Cap & Alignment Tool	55.00
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toll free
800-525-1963

on the web
www.markwilliams.com

RAPID RELEASE YOKES

The MW Rapid Release yokes can be a real time saver during those quick transmission changes. They allow the driveshaft to be disconnected at the transmission rather than at the pinion, plus the cap design prevents over tightening and possible damage to the U joint cups. These yokes accept the 1350 series Spicer U joint and are the lightest and most compact units of this type on the market. Each yoke comes with caps and fasteners. Care must be exercised not to mix U-joint caps and maintain indexing after shaft is balanced. MW built driveshafts with these yokes have identifying index marks.

39102	Mopar Rapid Release Yoke	437.00
	<i>30 spline. Mopar, Doug Nash and Liberty trans. "D"=6-1/8"</i>	
39104	Turbo 400 Rapid Release Yoke	437.00
	<i>32 spline. Turbo 400 and Super T-10 trans. "D"=5-3/4"</i>	
39105	Powerglide Rapid Release Yoke	437.00
	<i>27 spline. Powerglide and Turbo 350 trans. "D"=5-13/16"</i>	
39113	Lenco Rapid Release Yoke	437.00
	<i>32 spline. Lenco trans. "D"=4"</i>	
39115	Rapid Release Yoke	437.00
	<i>16 spline. Lenco trans. "D"=4"</i>	
39120	Ford Rapid Release Yoke	437.00
	<i>31 spline. C-6 and Toploader trans. "D"=6-1/8"</i>	

PINION YOKES

MW steel pinion yokes are CNC machined from heat treated 4340 steel forgings and they accept the Spicer 1350 series U-joint. Special tooling ensures that every yoke is machined concentric to the pinion spline for smooth operation. Yokes have provision for computer pick up rings available separately. Every MW pinion yoke can use conventional Spicer 3/8" diameter U-bolts, or the new 2nd Gen™ alloy steel kit to retain the U-joint.

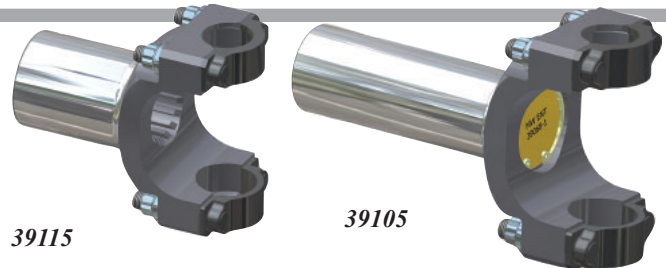


39011

39003	MW 8.5" GM 10 Bolt Pinion Yoke	215.00
	<i>30 spline, for 1350 series U joint. "B" = 3-3/16"</i>	
39006	MW GM 12 Bolt Pinion Yoke (long)	215.00
	<i>30 spline, for 1350 series U joint. "B" = 3-7/8"</i>	
39038	MW GM 12 Bolt Pinion Yoke (short)	204.00
	<i>30 spline, for 1350 series U joint. "B" = 2-7/8" Recommended yoke</i>	

BILLET ALUMINUM YOKES

39906	MW Aluminum 12 Bolt Pinion Yoke	295.00
	<i>30 spline, for 1350 series U joint. "B"= 3 7/8"</i>	
39908	MW Aluminum 9" Ford Pinion Yoke	295.00
	<i>28 spline, for 1350 series U joint. "B"= 3-7/8"</i>	
39911	MW Aluminum 9" Ford Pinion Yoke	295.00
	<i>35 spline, for 1350 series U joint. "B"= 3-7/8"</i>	
39936	Low Friction 9" Ford Pinion Yoke	295.00
	<i>32 spline, for 1350 series U joint. B"= 3-7/8" This is the aluminum yoke used with the 57022 series Thirdmembers and the MWE-XXX 9-1/2" Gear sets.</i>	
39972	9" Ford Pinion Yoke 1480 Joint	325.00
	<i>35 spline, for 1480 series U joint. B"= 3-7/8" for 9",9-1/2", Gear sets.</i>	
39973	12" Modular Pinion Yoke 1480 Joint	325.00
	<i>40 spline, for 1480 series U joint. B"= 3-7/8" for 11", Gear sets.</i>	



39115

39105

39135	Dedenbear PG Rapid Release Yoke	437.00
	<i>27 spline. Powerglide trans. with Dedenbear Tail-Housing Roller bearing 1.500 diameter "D"=5-13/16"</i>	
39157	Quick Release 32 Spline Roller Bearing	437.00
	<i>32 spline. Roller bearing with 1.888" diameter D"=6-7/16"</i>	
39110	Replacement Steel Caps, Bolt on (pr)	80.00
	<i>For pre 2016 yoke with threaded holes.</i>	
39112	Replacement Steel Caps, Gen II, stud (pr)	97.00



39110

39112

39008	MW 9" Ford Pinion Yoke, 28 spline	195.00
	<i>28 spline, for 1350 series U joint. "B" = 3-7/8". Note: 57604 shim required if yoke is used with stock support.</i>	
39011	MW 9" Ford Pinion Yoke, 35 spline	210.00
	<i>35 spline, for 1350 series U joint. "B" = 3-7/8"</i>	
39014	MW Dana 60 Pinion Yoke	195.00
	<i>29 spline, for 1350 series U joint. "B" = 3-1/32"</i>	
39016	MW 8-3/4" Mopar Pinion Yoke	210.00
	<i>10 spline, for 1350 series U joint. "B" = 3-1/2"</i>	
39018	MW '57-'64 Olds/Pontiac Pinion Yoke	195.00
	<i>13 spline, for 1350 series joint. "B" = 3.160"</i>	
39023	MW 8.8" Ford Pinion Yoke	195.00
	<i>30 spline, for 1350 series U joint. "B" = 3-9/32"</i>	
39037	MW 12" Rear	270.00
	<i>40 Spline, for 1350 Series U-Joint "B"=3.830"</i>	
39025	MW 9" Pinion Yoke 1330 series Joint	195.00
	<i>28 spline for MW support, 1330 Ford joint (3-5/8 X 1-1/8)" "B"=3-1/2"</i>	
39083	14Bolt GM Truck 1410 series joint	304.00
	<i>30 spline for early GM Truck used in Rock Bouncer</i>	



39973 1480 Joint

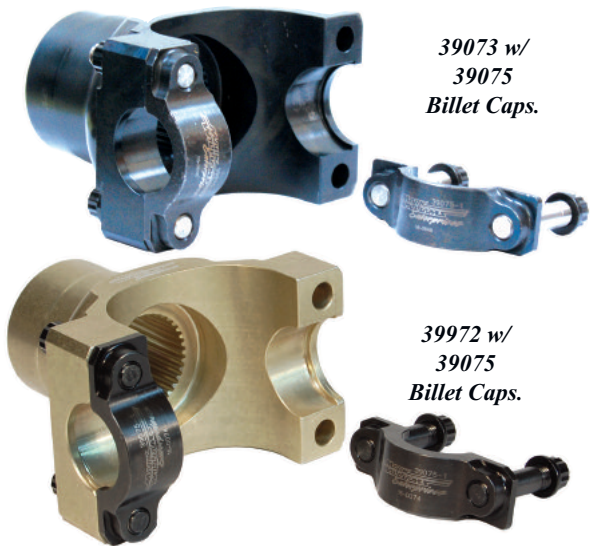


39908 1350 Joint

All MW aluminum yokes are CNC machined from 7075-T6 billet materials and have the MW Gold Coat process. These 1350 series pinion yokes mate to the 39912 Gen II and 1480 Joint, 39075 U-Bolt kits. (Page 73)



1480 SERIES PINION YOKES



MW Extra Heavy Duty pinion yokes are precision machined from Alloy Heat-Treated steel forgings. They feature a 1480 series U-joint that is 40% stronger than the standard 1350 U-Joints. Special fixtures ensure that every yoke runs concentric to the splines. Shot Peened for surface strength improvement. For extra strength, the 39075 Billet Steel Cap Kit is required rather than replace standard straps.

39072 MW 1480 Series 9" Ford Pinion Yoke <i>35 spline, for 1480 series U-Joints B=3-7/8"</i>	.339.00
39073 MW 1480 Series 12" Pinion Yoke <i>40 spline, for 1480 series U-Joints B= 3-7/8"</i>	.339.00
39084 MW 1480 Series 14 Bolt GM Pinion Yoke <i>30 spline, for 1480 series U-Joints B= 3.7" early 14 Bolt GM Truck</i>	.339.00
39075 Cap Kit for 1480 Series Yokes <i>Billet steel cap kit for 1480 series pinion yokes</i>	.129.00
39972 MW 1480 Series Aluminum 9" Ford Pinion Yoke <i>35 spline, for 1480 series U-Joints B=3-7/8"</i>	.325.00
39973 MW 1480 Series Aluminum 12" Pinion Yoke <i>40 spline, for 1480 series U-Joints B= 3-7/8"</i>	.325.00

OVAL TRACK YOKE & PULLEY

39053-1 9" Oval Track Yoke Short <i>9" Ford 28-spline. "B"=3-9/16" Nickel Plated.</i>	.320.00
39063 9" Oval Track Yoke, Short <i>9" Ford 28-spline. "B"=3-9/16" Nickel Plated. For billet caps.</i>	.206.00
39064 9" Oval Track Yoke, Long <i>9" Ford 28-spline. "B"=3-7/8" For 39111 billet caps.</i>	.196.00
39924-1 9" Oval Track Aluminum Long <i>9" Ford 7075-T6 billet, 28-spline. "B"=3-7/8" with Threads.</i>	.295.00

MW Oval Track yokes are machined from 4340 forgings and designed to use Spicer 1350 U-joint and straps or MW U-bolt kit. V-belt pulleys are optional. These yokes are designed for Daytona type pinion supports or MW's 57690 nodular iron ball bearing support (yokes must be modified if used with any other MW support). Two new yokes accept a U-

U-BOLTS & OPTIONS

39111 Billet U-Bolt Kit for NASCAR <i>Billet caps with studs and 12 point nuts (pr).</i>	.97.00
39053-2 V- Belt Pulley Installed on above Yoke <i>Pulley installed for driving oil cooler system pumps</i>	.35.00
39027 Strap Bolt on U-Joint Caps	.14.70



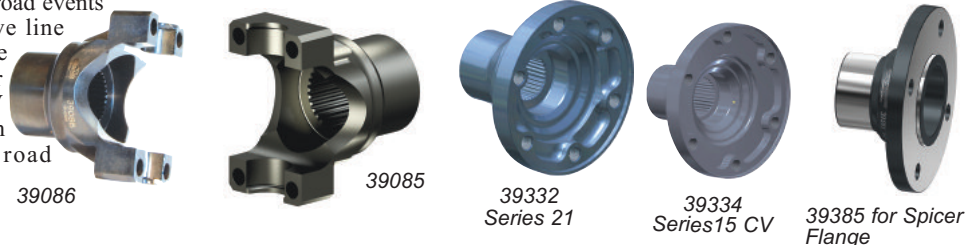
39064 shown with 39111 billet caps



39024 w/strap kit and optional 39053-2 pulley

OFF-ROAD DRIVELINE COMPONENTS

With the increased popularity of off road events M/W is proud to offer several drive line products. For the Atlas transfer case we have yokes and CV flanges. For the 14 Bolt pinion yokes and CV flanges. Look for new problem solving products for you're off road drivelines in the future.



39086 Atlas Transfer Yoke <i>32-spline. 1350 Spicer Joint size</i>	.304.00	39331 Pinon CV flange 930 Size <i>35-spline. for 930 Series 15 CV Joint</i>	384.00
39087 Atlas Transfer Yoke <i>32-spline. 1410 Spicer Joint size</i>	.304.00	39332 Pinon CV flange 934 Size <i>35-spline. for 934 Series 21 CV Joint</i>	.384.00
39088 Atlas Transfer Yoke <i>32-spline. 1480 Spicer Joint size</i>	.304.00	39334 Atlas CV flange 930 Size <i>32-spline. for Series 15 CV Joint</i>	.384.00
39084 GM Truck 14 Bolt Pinion Yoke <i>30-spline. 1480 Spicer Joint size</i>	.339.00	39335 Atlas CV flange 934 Size <i>32-spline. for Series 21 CV Joint</i>	.384.00
39085 GM Truck 14 Bolt Pinion Yoke <i>30-spline. 1350 Spicer Joint size</i>	.304.00	39385 Pinon 4 bolt U-Joint flange <i>for Spicer 4 Bolt up flange 4-3/4" square</i>	.204.00

toll free
800-525-1963

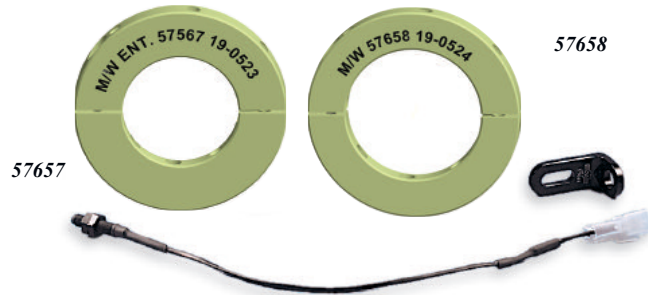
on the web
www.markwilliams.com

COMPUTER PICKUP ASSEMBLY

The MW computer pickup assembly provides driveshaft rpm data from the pinion. Compatible with most on board computer systems. CNC machined and black anodized these collars will accept 1 to 8 magnets. Magnets slip in from center, a plastic plug holds the magnet outward (included with magnet). The 57642 collar has 1.875" I.D. while the 57645 collar has a 2.187" I.D. 57656 has a 2.375 I.D. Most MW yokes and couplers are designed to use one of these collars. Specify number of magnets required. 1,2 4 or 8

57640	Assembly Std Pinion (collar & bracket)	145.00
57641	Bracket for 9" Ford Thirdmember	21.20
57646	Assembly Lrg. Pinion (collar & bracket)	145.00

57658	Magnet Ring 8 mag (lrg pinion) 2.187" I.D.	125.16
57643	Magnet (1/4" dia. x 1/4" long)	2.75
57644	Proximity Sensor Assembly	75.00

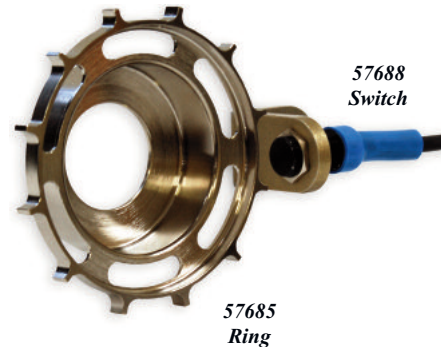


HIGH RESOLUTION HALL EFFECT SENSOR

The Mark Williams hall effect driveline sensor features a lightweight, nickel plated trigger ring and a solid state pickup. 12 pulses per revolution deliver accuracy 3 times higher than a 4 magnet system, and the system is less prone to errors due to vibration. The kit includes everything needed to install the system on a 9" Ford, including the bracket and updated seal.

57685	12 Point Hall Effect Sensor Ring	150.00
<i>Fits 28 spline 9" Ford pinion, includes seal</i>		
57686	12 Point Hall Effect Sensor Ring	150.00
<i>Fits 32 spline low drag 9" Ford pinion (MW), includes seal</i>		
57687	12 Point Hall Effect Sensor Ring	150.00
<i>Fits 35 spline 9" Ford large pinion, includes seal</i>		
57688	Hall Effect Sensor Switch	118.00
<i>Fits 9" includes bracket</i>		

*Older RacePak units may not be compatible without an update from RacePak.



BALANCING

Hi-Speed Balancing



Many of our driveshaft improvement is result in utilizing use of our highly sophisticated balancing machine This enables Mark Williams Enterprises technicians to accurately balance shafts that simulate operating conditions. The device features a built-in "dyno" that can place loads on the shaft and is adjustable to universal joint operating angle The process allows Mark Williams to balance driveshafts and check the universal joint preload more accurately than is possible through conventional processes thus simulating actual running conditions. This equipment is used on all driveshafts manufactured by Mark Williams Enterprises. Mark Williams quality check and balance any existing 1350 or 1480 series universal shaft, regardless of manufacturer, for a nominal fee.

BAL	Straighten and High Speed Driveshaft Balance	125.00
BAL-SPIN	Spin Test and Balance to NASCAR Specifications	145.00



DRIVELINE COUPLERS

Mark Williams makes a complete line of driveline couplers for dragster, funny car, drag boat, pulling tractor, and other applications with solid mount rear ends that require direct connection or solid splined shafts. All couplers are made of 4140 alloy steel and hardened by MW's Austempering heat treat process. Gear cutting operations are performed on special fixtures that locate on the spline pitch diameters to assure minimum total indicated run out. Coupler seal and/or bushing diameters are CNC ground to a smooth finish to assure proper fit and sealing of lubricants. All couplers receive a protective black oxide finish for extra durability. Double splined solid driveshafts and the original MW quick disconnect Powerglide couplers are also available for applications where the distance from the transmission to the rear end is too long for a standard male/female coupler.



TRANS COUPLERS, CONNECTORS & LOCK RINGS

40340	Ford C-4 Transmission Coupler	.231.65
	<i>28 spline, male, Ford C-4 trans. 5-3/4" long</i>	
40350	Ford C-6 Transmission Coupler	.205.00
	<i>31 spline, male, Ford C-6 trans. 5-3/4" long</i>	
40550	Mopar Transmission Coupler	.205.00
	<i>30 spline, male, Jerico or Liberty trans. 5-3/4" long</i>	
40600	Lenco Transmission Coupler	.106.00
	<i>16 spline, male, Lenco trans. 2-7/8" long</i>	
40610	Lenco Transmission Coupler	.122.00
	<i>16 spline, male, Lenco trans. 3-7/8" long</i>	
40620	Lenco Transmission Coupler	.160.00
	<i>16 spline, female, Lenco trans or 16 spline driveshaft.</i>	
40640	Lenco Transmission Coupler	.160.00
	<i>32 spline, female, Lenco trans or 32 spline driveshaft.</i>	
40650	Male Coupler Ring Gear	.67.00
	<i>20 tooth gear with 1.650 bore (for making special couplers).</i>	
40660	Lenco Transmission Coupler	.164.00
	<i>35 spline, male, Lenco trans. 6" long</i>	
40700	Turbo 400 and B&J Trans Coupler	.164.00
	<i>32 spline, male, Turbo 400 or B&J trans. 3-7/8" long</i>	
40711	Turbo 400 and B&J Trans Coupler	.182.00
	<i>32 spline, male, Turbo 400 or B&J trans. 6-3/4" long</i>	
40780	Lenco Transmission Coupler	.164.00
	<i>32 spline, male, Lenco trans. 3-7/8" long</i>	
40800	Powerglide Transmission Coupler	.145.00
	<i>27 spline, male, Powerglide or 350 trans. 3-7/8" long</i>	
40805	Powerglide Transmission Coupler	.145.00
	<i>27 spline, male for Dedenbear Tail Housing. 3-7/8" long</i>	

40810	Powerglide, Transmission Coupler	.205.00
	<i>27 spline, male, Powerglide or 350 trans. 6 3/4" long</i>	
40820	Powerglide, Transmission Coupler	.245.00
	<i>27 spline, male, Powerglide or 350 trans. 8" long</i>	
40830	Powerglide, Trans Coupler, with 4.5" Gap	.265.00
	<i>27 spline, male, Powerglide or 350 trans, includes lock ring, sleeve & coupler</i>	
40900	Driveshaft Connector	.66.00
	<i>16 spline, Lenco transmission and solid driveshafts.</i>	
40950	Driveshaft Connector	.66.00
	<i>32 spline, Lenco transmission and solid driveshafts.</i>	
40951	Driveshaft Connector	.66.00
	<i>32 spline, B & J transmission and solid driveshafts.</i>	
40960	Driveshaft Connector	.92.50
	<i>40 spline, Transmission and solid driveshafts.</i>	
40980	Driveshaft Connector	.86.00
	<i>35 spline, Lenco transmission and solid driveshafts.</i>	

Shaft to Coupler Lock Rings

40601	Coupler Lock Ring (aluminum)	.44.81
	<i>Fits 1 3/8" 16 or 32 spline trans output or splined shaft. 1 pc.</i>	
40602	Coupler Lock Ring (steel)	.42.40
	<i>Fits 1 3/8" 16 or 32 spline trans output or splined shaft. 2 pc.</i>	
40603	Coupler Lock Ring (aluminum)	.43.43
	<i>Fits 1 3/8" 16 or 32 spline trans output or splined shaft. 2 pc.</i>	
40605	Coupler Lock Ring (steel)	.40.00
	<i>Fits 1 1/2" 35 spline trans output or splined shaft. 2 pc.</i>	
40836	Coupler Lock Ring for 40 spline O.D. (steel)	.45.30
	<i>Fits 40 spline 1.708" diameter used in Quick Disconnect Coupler Assy.</i>	

PINION COUPLERS

40000	9" Ford Pinion Coupler	.182.00
	<i>35 spline, female, 9" Ford large pinion.</i>	
40040	9" Ford Pinion Coupler	.215.00
	<i>40 spline, female, 9" Ford TF pinion.</i>	
40045	11" Modular Pinion Coupler	.215.00
	<i>40 spline, female, 11" Modular pinion.</i>	
40050	Blank Female Pinion Coupler	.140.00
	<i>No internal splines, No heat treat</i>	
40060	9" Ford Pinion Coupler	.215.00
	<i>32 Spline, female, Low Friction Thirdmember</i>	
40100	9" Ford Pinion Coupler	.164.00
	<i>35 spline, male, 9" Ford large pinion.</i>	
40200	'49-'50 Olds-Pontiac Pinion Coupler	.208.00
	<i>10 spline, female.</i>	

40250	'57-'64 Olds-Pontiac Pinion Coupler	.208.00
	<i>13 spline, female.</i>	
40300	9" Ford Pinion Coupler	.182.00
	<i>28 spline, female, 9" Ford standard pinion.</i>	
40400	Dana 60 Pinion Coupler	.182.00
	<i>29 spline, female.</i>	
40500	8-3/4" Mopar Pinion Coupler	.192.00
	<i>10 spline, female.</i>	
40630	Quick Change Pinion Coupler	.182.00
	<i>10 spline, female.</i>	
40750	12-Bolt Chevrolet Pinion Coupler	.182.00
	<i>30 spline, female.</i>	
49300	9" Ford Aluminum Pinion Coupler	.276.00
	<i>Made from 7075 Aluminum. Similar to 40300. 28 Spline, female. 9" Ford standard pinion. Note: Limited service life.</i>	

toll free
800-525-1963

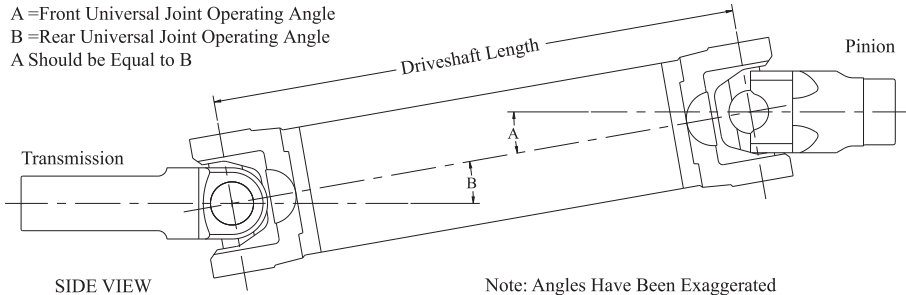
on the web
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DRIVESHAFT TIPS

There are a couple important factors that will ensure the best possible performance from your driveshaft assembly. One is U-joint operating angles and the other is shaft critical speed. Both are explained below. Use these tips to avoid common driveline mistakes.

OPERATING ANGLES

The driveline arrangement in most racing applications is known as a parallel, zero degree phasing driveshaft. In order to obtain the minimum power loss from the operation of the universal joints, two things must be addressed with regard to operating angles. First is making sure shaft centerlines are parallel. Second is the actual operating angle of the U-joints. The centerline of the engine/transmission (ØA) should be kept as parallel as possible to the pinion centerline (ØB). This ensures both U-joints are operating at the same angle.



Keeping these centerlines parallel throughout the suspension travel would be ideal but is very hard to do. The type of rear suspension will have an effect on maintaining a parallel condition. A 4-link suspension system is the best when it comes to the pinion maintaining its angle through its travel up and down. Ladder bar and torque arm systems create unique operating angles as the suspension moves since they move from a single point. In any case, the pinion angle should be set to match the engine/trans angle with the car at its ride height by placing a digital level on a machined surface of the engine then on the pinion yoke. Adjust bars or shim accordingly. u-joint operating angles should be kept at a minimum. In general operating angles should be 2° or less for racing applications and should be within 1/2° of each other. Greater operating angles create a power loss and can cause vibration at high RPMs. Again a 4-link is the best at keeping the U-joints operating at the same angles. Increasing the operating angle will also affect the critical speed characteristics of a driveshaft. There is a general misunderstanding about "dropping the pinion down" several degrees. This is a practice that should be applied only to leaf spring cars without any traction control devices where springs can "wrap" and change pinion angle. This practice would not apply to 4-link, ladder bar or torque arm equipped cars. Failure to maintain matched and minimum operating angles increase erratic non-uniform output velocity from the driveshaft to the differential.

CRITICAL SPEED

MW Part Number	44"	46"	48"	50"	52"	54"	56"	58"	60"
39155 4.0" Carbon Fiber	14173	12940	11860	10910	10070	9320	8650	8060	7521
39550 4" Bonded 7075	10620	9700	8890	8170	7540	6980	6480	6040	5630
39555 3.5" Bonded 7075	8590	7850	7190	6620	6110	5660	5250	4890	4570
39600 3.0" Mild Steel	7860	7170	6570	6050	5580	5170	4800	4470	4170
39640 4" Mild Steel	10460	9560	8760	8060	7440	6890	6400	5960	5560
39650 3.5" Mild Steel	9210	8410	7710	7090	6550	6060	5630	5240	4890
39800 3" 4130 Steel	7960	7270	6660	6130	5660	5240	4860	4530	4220
39850 3.5" 4130 Steel	9230	8430	7730	7110	6570	6080	5650	5260	4910
39860 4" DOM Mild Steel	10470	9560	8770	8070	7450	6900	6410	5970	5570
39880 3.5" Chromoly 1480	9320	8510	7800	7170	6620	6130	5690	5300	4940
39890 4" 1480 Bonded 7075	10620	9700	8890	8170	7540	6980	6480	6040	5630
39985 3.5" Bonded 6061	9050	8260	7580	6970	6430	5960	5530	5150	4810
39990 4" Bonded 6061	10460	9540	8750	8050	7430	6870	6380	5940	5540

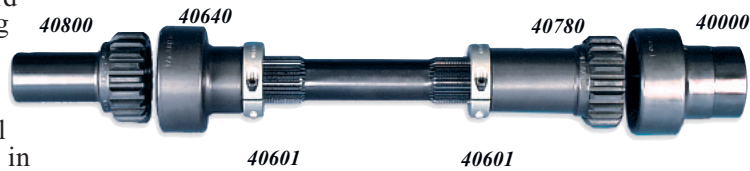
Any rotating shaft will become dynamically unstable at certain speeds and create vibrations at an amplitude that will cause destruction. The shaft will go into a whirl or "jump rope" effect causing an imbalance that will vibrate violently and ultimately fail. In order to avoid these conditions all drivelines must operate within their critical speed limitations. The factors that determine the critical speed are the stiffness of the material, the diameter of the tubular member and the shaft length. Typically a larger diameter shaft has a higher critical speed than a smaller diameter shaft. The length of a shaft also has a great effect on its speed properties. The chart to the left shows general limits based on a 75% rating. Keeping shafts within these limits will assure smooth operation. Shafts operating higher than the speeds listed can expect vibration at some point.

Critical Speeds of MW Driveshafts in RPM'S
 Lengths are centers of U-Joints



SOLID DRIVESHAFTS

MW solid driveshafts are for vehicles with solid mounted rear ends where a single coupler is not long enough. These shafts are available in stocked lengths from 6" to 28" long. All shafts are machined out of 4340-alloy steel. All shafts are, micro polished, and heat-treated with MW's austempering process. All shafts receive a black oxide finish. Standard shafts in stock are: 1-3/8-16 straight key, 1-3/8-32 involute spline and 1-1/2-35 involute splines. Shafts over 12" have 4 full inches of spline on each end and can be shortened up to 2" on each end. Couplers and spline shafts should not be used unless perfect alignment is assured. Critical speed calculations must be considered for these shafts. Call with your numbers to confirm the RPM critical speed value. MW can also build custom solid driveshafts to your specs with different splines upon request.



Typical Powerglide to 9" Ford set-up with 32 spline shaft

41000-06 F/C Driveshaft, 16 Spline 6" Long	170.00
41000-08 F/C Driveshaft, 16 Spline 8" Long	185.00
41000-12 F/C Driveshaft, 16 Spline 12" Long	207.00
41000-14 F/C Driveshaft, 16 Spline 14" Long	215.00
41000-16 F/C Driveshaft, 16 Spline 16" Long	242.00

41050-06 F/C Driveshaft, 32 Spline 6" Long	170.00
41050-08 F/C Driveshaft, 32 Spline 8" Long	185.00
41050-12 F/C Driveshaft, 32 Spline 12" Long	207.00
41050-16 F/C Driveshaft, 32 Spline 16" Long	219.00

41060-06 F/C Driveshaft, 35 Spline 6" Long	170.00
41060-24 F/C Driveshaft, 35 Spline 24" Long	255.00

41000-20 F/C Driveshaft, 16 Spline 20" Long	255.00
41100-24 F/C Driveshaft, 16 Spline 24" Long	265.00
41100-28 F/C Driveshaft, 16 Spline 28" Long	276.00
41100-32 F/C Driveshaft, 16 Spline 32" Long	299.00

41050-20 F/C Driveshaft, 32 Spline 20" Long	255.00
41150-24 F/C Driveshaft, 32 Spline 24" Long	242.00
41150-28 F/C Driveshaft, 32 Spline 28" Long	253.00

41160-28 F/C Driveshaft, 35 Spline 28" Long	265.00
41160-32 F/C Driveshaft, 35 Spline 32" Long	282.00

16 SPLINE DRIVESHAFTS

32 SPLINE DRIVESHAFTS

35 SPLINE DRIVESHAFTS

QUICK DISCONNECT POWERGLIDE COUPLER

This innovative MW original design allows transmission removal without disturbing the engine or rear end. Perfect for Comp and Super Comp dragsters. **Shorty Powerglide only.**

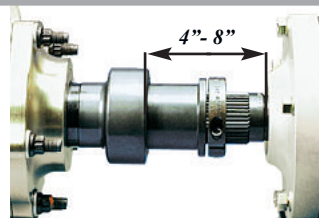
POWERGLIDE 27 SPLINE BUSHING TAIL HOUSINGS

40830 Q/D Coupler, Powerglide (Short)	265.00
<i>Requires 4" from trans seal to pinion coupler, bushed housing</i>	
40840 Q/D Coupler, Powerglide (Long)	276.00
<i>Requires 4" - 6" from trans seal to pinion coupler, bushed housing</i>	
40860 Q/D Coupler, Powerglide (Extra Long)	285.00
<i>Requires 6"-8" from trans seal to pinion coupler, bushed housing</i>	

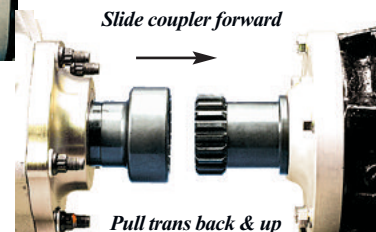
POWERGLIDE 27 SPLINE ROLLER TAIL HOUSINGS

40850 Q/D Coupler, Powerglide (Short)	265.00
<i>Requires 4" from trans seal to pinion coupler, roller housing</i>	
40855 Q/D Coupler, Powerglide (Long)	276.00
<i>Requires 4"-6" from trans seal to pinion coupler, roller housing</i>	
40865 Q/D Coupler, Powerglide (Extra Long)	285.00
<i>Requires 6"-8" from trans seal to pinion coupler, roller housing</i>	

Individual replacement parts are available for all couplers. Our MW Technical Representative can help you find the right parts. Give us a call.



With coupler installed and lock ring in place, a gap (approximately 1/8") is needed to be between lock ring and coupler to avoid binding as the chassis works.

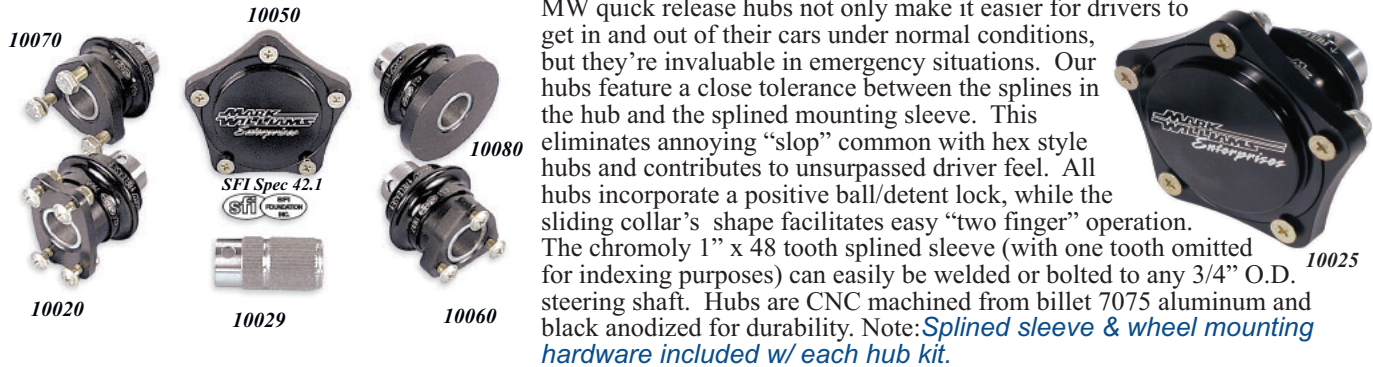


When removing the transmission, remove the lock ring and slide coupler forward to the back of the transmission. This allows the transmission to be moved back and off the dowel pins of the engine.

POWERGLIDE WITH 32 SPLINE OUTPUT

40870 Q/D Coupler 32T for Powerglide (Short)	287.00
<i>Requires 4" from trans seal to pinion coupler, roller housing</i>	
40875 Q/D Coupler 32T Powerglide (Long)	318.00
<i>Requires 4"-6" from trans seal to pinion coupler, roller housing</i>	
40876 Q/D Coupler 32T, Powerglide (Extra Long)	344.00
<i>Requires 6"-8" from trans seal to pinion coupler, roller housing</i>	
40878 Q/D Coupler 32T, T-400 (Extra Long)	357.00
<i>Requires 6"-8" for Bushing (long barrel)</i>	

QUICK RELEASE STEERING HUBS



MW quick release hubs not only make it easier for drivers to get in and out of their cars under normal conditions, but they're invaluable in emergency situations. Our hubs feature a close tolerance between the splines in the hub and the splined mounting sleeve. This eliminates annoying "slop" common with hex style hubs and contributes to unsurpassed driver feel. All hubs incorporate a positive ball/detent lock, while the sliding collar's shape facilitates easy "two finger" operation. The chromoly 1" x 48 tooth splined sleeve (with one tooth omitted for indexing purposes) can easily be welded or bolted to any 3/4" O.D. steering shaft. Hubs are CNC machined from billet 7075 aluminum and black anodized for durability. Note: *Splined sleeve & wheel mounting hardware included w/ each hub kit.*

10020 Q/R Hub Dragster & F/C <i>For MW wheels, 4 holes, 3/16" holes, .75 x 1.65</i>	120.00	10060 Q/R Steering Hub <i>3 hole Don Long style, 10-32 thd., 3 holes on 1.375 B.C.</i>	120.00
10025 Q/R Hub <i>5-Hole Grant GT Pattern, 3/16" hole, 5 x 2.86 B.C.</i>	154.00	10070 Q/R Hub <i>Oval track, 3 hole x 1/4" threads on 1.75 B.C.</i>	120.00
10029 Splined Sleeve, Bolt on	32.00	10080 Q/R Hub, Universal <i>Blank 2.45" diameter flange.</i>	120.00
10050 Q/R Hub <i>6-Hole Sparco/Momo Pattern. 3/16" holes, 2.755" (70mm) B.C</i>	154.00	30112 1/4" Cross Bolt and Nut <i>Aircraft smooth shank bolt with washers and Jet nut.</i>	7.95

DRAGSTER STEERING WHEELS

MW Dragster/FC steering wheels are fully CNC machined from 3/16" aluminum. Main wheel is fully polished inside and out with polished grips. MW wheels are approximately 7 5/8" wide and 7 1/8" deep and drilled to match steering hub #10020 or D5 mount.

We can offer wheels without the grips installed for customers wanting the have the grips anodized colored with other car components.

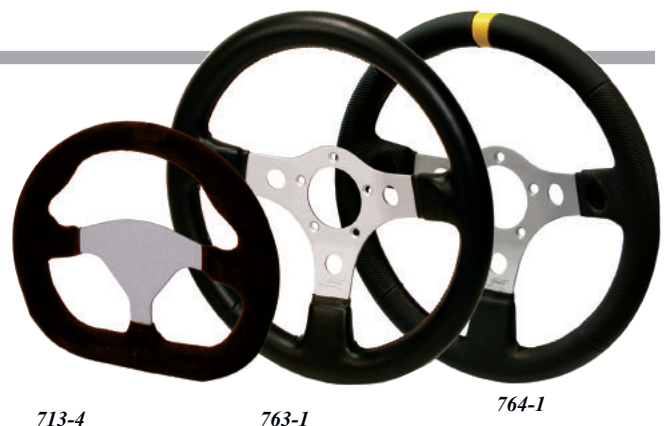
10035 Dragster/FC Type Steering Wheel <i>With polished grips, Mounting drilled for 10020 quick release hub or D5 weld in mount. We no longer offer anodized colored grips.</i>	170.00
10046 Switch Panel* <i>Brushed Aluminum, w/ Button Holes</i>	45.00
10048 Switch Black Panel* <i>Black Aluminum, with Button Holes</i>	45.00

**Switch panel mounting holes must be drilled in steering wheel.*



STEERING WHEELS

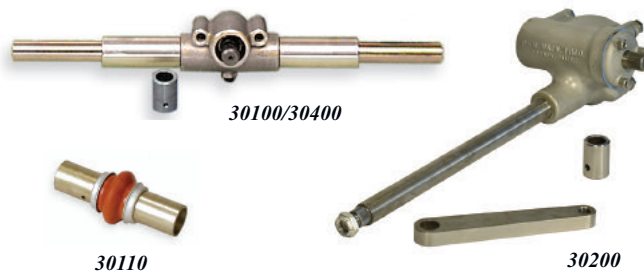
713-4 10" Grant "D" Shape Wheel <i>Black suede grip, silver spokes. Uses 10060 Quick Release hub. Dragster/Altered Applications. Note legal for door cars.</i>	147.00
763-1 13" Grant Steering Wheel <i>Black grip, silver spokes. Uses 10025 Quick Release hub.</i>	124.00
764-1 13" Grant Steering Wheel <i>Black grip, yellow stripe Uses 10025 Quick Release hub..</i>	134.00



STEERING BOXES

MW stocks a billet Funny Car type steering box for front-engine applications and rack and pinion steering boxes for rear engine dragsters. Racks are available in 10" or 15" widths and with racks in either steel or aluminum. Rack and Pinion Units are dimensionally the same as original P&S machine steering. We now have the original P-S (TAK Machine) tooling and patterns to reproduce the original P-S product.

30100 Rack and Pinion	407.00
<i>15" rack with 6" of travel steel rack 2.74 lbs</i>	
30100A Aluminum Rack and Pinion	407.00
<i>15" 7075 aluminum rack with 6" of travel 1.71 lbs</i>	
30400A Aluminum Rack and Pinion	407.00
<i>10" 7075 aluminum rack with 6" of travel 1.34 lbs</i>	
30200 Standard Steering, 10:1 Ratio	560.00
<i>Standard unit for F/C and Altered race cars 5.36 lbs</i>	
30110 Universal Joint for 3/4" OD Tube	176.89
<i>Aircraft quality Joint lubricated with rubber boot</i>	



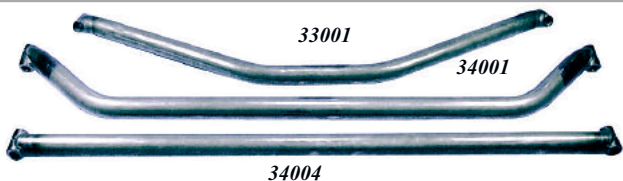
MW FRONT SPINDLES

MW front spindles are manufactured from 4130 steel forgings or 7075 Aluminum Billet and accept the popular Anglia style spindle mount wheels. All spindles are drilled top and bottom for a steering arm or a tow hook attachment and are black oxidized. Steering arms are profile milled from 1/4" 4130 steel or 1/4" 7075 aluminum. All assemblies include brass thrust washers, spindle castle nuts, washers, and cotter pins.

31200 MW Front Spindle Assembly (pr)	574.00
<i>Steel. 2 control arms. Standard is 5" arms</i>	
31210 MW Front Spindle Assembly (pr)	609.00
<i>Steel 3 control arms. Specify 4", 5" or 6" arms.</i>	
31230 MW Front Spindle Assembly (pr)	560.00
<i>Steel With king pins. No steering arms.</i>	
31300 Aluminum 7075 Spindle (pr)	560.00
<i>Two 4" aluminum arms with castle nuts and thrust washers.</i>	
31221 Tow Rings Spindle Cap M/W Spindle	33.75
31222 Tow Rings Spindle Cap P-S Spindle	33.75



TUBULAR FRONT AXLES

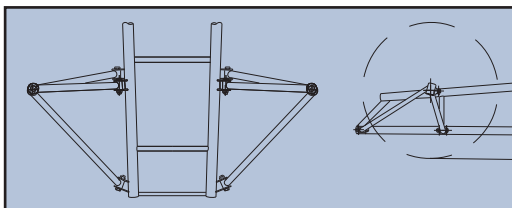


33001 Dragster Axle	320.00
<i>6" drop, 39" centers, 6" flat, 1-1/2 x .120 4130 tube</i>	
33002 Dragster Axle	337.00
<i>5" drop, 39" centers, 6" flat, 1-1/2 x .120 4130 tube</i>	
33003 Dragster Axle	322.00

Mark Williams tubular front axles are built from 4130N chromoly tubing. King pin bosses are TIG welded using a special precision fixture to maintain correct king pin angle then king pin bores are reamed after final welding.

<i>5" drop, 39" centers, 20" flat, 1-1/2 x .120 4130 tube</i>	
33005 Dragster Axle	320.00
<i>6" drop, 36" centers, 6" flat, 1-1/2 x .120 4130 tube</i>	
34001 Funny Car/Altered Axle	326.00
<i>5" drop, 42" centers, 1-5/8 x .188 4130 tube</i>	
34002 Funny Car/Altered Axle	298.00
<i>3" drop, 40" centers, 1-5/8 x .188 4130 tube</i>	

A-ARM FRONT END MATERIALS KITS



Typical Dragster A arm installation

The advantages of an A-arm setup include lighter weight, increased rigidity, and contemporary styling. Both kits feature a bolt on removable A-arm design. The 33600 A-arm jig fixture or a similar clamping fixture is necessary to build a car with these kits. (See page 84)

34500 F/C Altered A-Arm Front End Kit	206.00
33500 Dragster A-Arm Front End Kit	211.00
33600 A-Arm Jig Fixture (see photo page 86)	195.00

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TORSION ASSEMBLIES

FUNNY CAR TORSION ASSEMBLY

The MW FC/Altered torsion bar assembly is designed for use on either a Funny Car or Altered chassis, and has a 26" span with 5 inch arms. The housing is 1-1/2" x .065 diameter 4130 chromoly tubing, while the torsion bar is heat-treated 4140 steel.

Extra fine adjustments are possible through the use of 7/8"-48-spline serrations on the torsion bar and arms. The torsion arm load is carried by Torrington® needle bearings. Plus complete freedom of axle movement is assured through the use of 3/8" spherical bearings swedged in the torsion arms.



35000

35000 Funny Car/Altered Torsion Assembly460.00
26" centers with 5" arms

DRAGSTER TORSION ASSEMBLY

Mark Williams has reproduced the Dragster Torsion assembly that was used in the '60's. The bar is produced from 1/2" hex material and has 7/8-48 serrated buttons on the ends for height adjustment. The splined button is hardened as well as the end flange in the tube, to retard wear a small grease hole allows lubrication of the moving parts. This is the same dimensionally, as was used for Woody Gilmore and Mark Williams front engine cars.

AXLE MOUNTING BRACKETS



15010

Pre-cut mounting brackets make it easy to mount the front axle. All are produced from 4130 sheet normalized condition steel.



33020



35300

15010 Axle Mount Brackets F/C (4)61.00
3/16 4130 welds to 1-5/8" tube axle bolts to the 35000 Torsion

35300 Dragster Torsion Bar332.00
20" centers 6-3/8" long arm 1-3/8" Dia housing

33020 Axle Mount Brackets Dragster (4)69.00
3/16 4130 plate welds to 1-1/2" tube axle, bolts to the 35300 Torsion

ANTI-ROLL ASSEMBLIES

The Anti-Roll assembly features splined 7075 aluminum outer arms. There are two models, 1-1/4" and 1-1/2" spline sizes. The shaft for the 1-1/4" (351XX) series can be heavy wall 1-1/4" chromoly tube or splined adapter .083" diameter adapter tube. The 1-1/2" spline size assemblies, (352XX) series utilize the splined adapter for 3" x .083 wall 4130 tube. The splined arms eliminate the possibility of oblong holes which are typical of a thru bolt design. The arms have a clevis design and accept 3/8" rod ends. The 3" tubular bar is stiffer than the straight 1-1/4" bar, and has the advantage of being fabricated to any width in the field.

The spherical self-aligning aluminum and Delrin® bearing mount are supplied with the weld on tabs and are available separately.

1-1/4" ANTI-ROLL ASSEMBLIES

35105 3" Tubular Anti Roll Center Tube Assy. 1-1/4" .686.00
3" center tube assy., with 35103 bearings, specify 5" or 6" arms & width.
Includes (2) 35103 bearing blocks.

35100 MW Anti-Roll Assembly 1-1/4" Serrations396.51
5" or 6" arms. 18" centers. 1-1/4 x .188 tube (custom widths available)
(no bearing blocks)

35103 Spherical Bearing Block 1-1/4"115.00
1-1/4" x 48 Tooth serrations partially in bore. (2 required)

1-1/2" ANTI-ROLL ASSEMBLIES

35250 3" Tubular Anti Roll Center Tube Assy 1-1/2" .873.00
3 X .083" X (24") center tube 35203 bearings (2), 1.5" ends, and 6" aluminum arms

35203 Spherical Bearing Block, 1-1/2" (one)152.00
1-1/2" x 48 Tooth serrations partially in bore. (2 required)
and 35105 kits (not shown).

35110 Linkage Kit for Anti-Roll Assembly198.00
Includes (2) 12" long 7/8" x .058" tube, tube adapters 4130 7/16" large shank RH & LH rod ends with 3/8" holes, all nuts and washers, for 35100



35100

35105

35103

35250

35203



SUSPENSION, MONO-SHOCK ROCKER SYSTEM

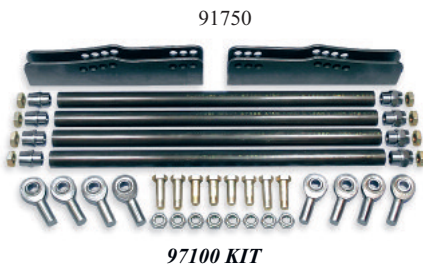
This is a unique mono-shock system that's perfect 4-link dragster. This design utilizes a single coil over shock and combines the functions of actuating the shock and an anti-roll bar in one assembly. The 12010 assembly shown with optional shock and spring, which are sold separately. Three different spring rates are available to suit various engine combinations.



12010 Rocker Assembly shown with available coil over

12010	Rocker Suspension Assembly (less shock)	864 .00
12011	Splined Outer Rocker Arm (ea)	107.50
12017	Delrin® Shaft Bushing (ea)	31.56
12015	Adjuster Link, no rod ends (ea)	26.00
12019	Double Adjustable Shock (5" stroke no spring)	POA
12019-225	Coil Spring (225#)	63.00
12019-275	Coil Spring (275#)	63.00

4-LINK & WISHBONE KITS



97100 KIT



12030 KIT



12021



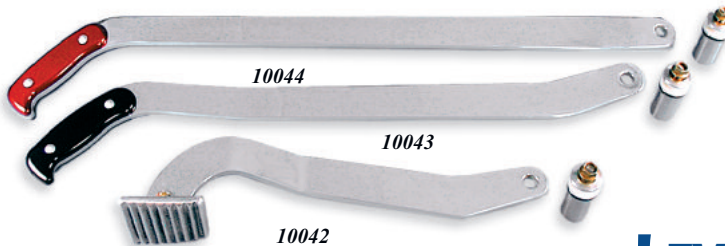
97150

12020	Dragster/Altered 4 Link Kit	804.00
<i>Kit uses 1-1/8" x .083" tubing & 5/8" x 5/8" rod ends.</i>		
12021	Dragster Front 4 Link Bracket (ea)	47.68
12030	Dragster/Altered Wishbone Kit (ea)	220.00
<i>1/2" (2) and 5/8" (1) 4130 rod ends, aluminum slider shaft</i>		
97100	4 Link Kit for 96000/97000 Housing	1060.00
<i>Kit uses 1-1/4" x .095 tubing & 5/8 x 3/4 rod ends.</i>		
97150	Front Chassis 4 Link Bracket (ea)	56.00

Mark Williams' 4-link wishbone kits include everything required to complete a standard 4-link rear suspension from the chassis to the housing. All kits include Aurora 4130 rod ends, jam nuts, tube adapters, M/W reduced hex shear shank bolts and locking jam nuts, and chromoly tubing. Both 4-link kits also include chromoly front chassis brackets.

LEVERS, PEDALS

MW brake levers and clutch/brake pedal are all CNC machined from 1/4" 6061 aluminum stock and fully polished to a bright luster. Both brake levers have polished aluminum grips installed. Clutch/brake pedal features bolt-on foot pad with grooved non-slip surface. All include mounting stud #10040 (see below).



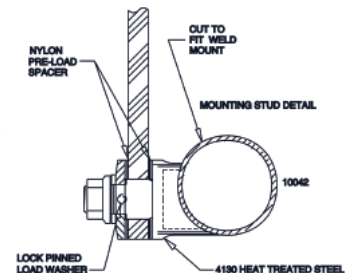
10042	Brake/Clutch Pedal	102.34
<i>With bolt on foot pad.</i>		
10043	Dragster Brake Lever	118.62
<i>Polished aluminum grips.</i>		
10044	Funny Car Brake Lever	140.00
<i>Polished aluminum grips.</i>		

LEVER/PEDAL MOUNTING STUD



10040

This unique assembly makes mounting controls such as brake levers and/or pedals simple. The use of a keyed aluminum washer along with teflon washers on each side of the lever allows the tension to be adjusted without the possibility of the nut loosening during use. The main body is machined from 4130 alloy steel and can be cut to fit against chassis rail (as shown).



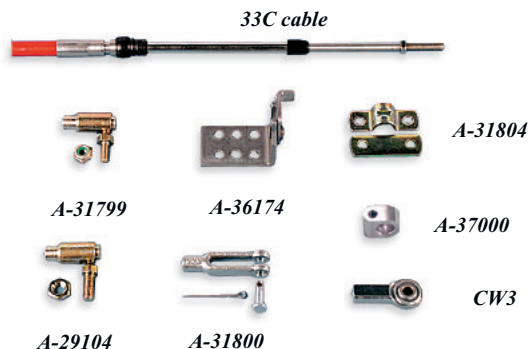
10040	Lever/Pedal Mounting Stud Assembly	58.00
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toll free
800-525-1963

on the web
www.markwilliams.com

MORSE CONTROL CABLES

Morse control cables have been the standard for many years and are ideal for operating your throttle, fuel shut-off, shifter/reverser, or chute release. MW stocks 3 foot to 14 foot cables and most of the common end fittings and clamps, both standard and quick release.



CABLE ACCESSORIES

A-21002	Quick Cable End 1/4"-28 X 3/8 Ball	10.50
A-29104	Quick Release Rod End, 1/4-28 thread	11.69
A-31799	Quick Release Rod End, 10-32 thread	14.15

CHROMOLY ROD ENDS



MW recommends the use of chromoly rod ends in high stress applications such as suspension components and steering linkage. All of the Aurora® 4130 chromoly rod ends listed here are a 3 piece design.

AM6	3/8-24" 4130 Male Rod End	24.28
AB6	3/8-24" 4130 Male Left Hand Rod End	24.28
AM7	7/16"-20 4130 Male Rod End	30.02
AB7	7/16"-20 4130 Male Left Hand Rod End	30.02
AM8	1/2"-20 4130 Male Rod End	38.22
AB8	1/2"-20 4130 Male Left Hand Rod End	38.22
AM10	5/8"-18 4130 Male Rod End	48.42
AB10	5/8"-18 4130 Male Left Hand Rod End	48.42
AM12	3/4"-16 4130 Male Rod End	68.80
AB12	3/4"-16 4130 Male Left Hand Rod End	68.80
RAM6T	3/8"-24 4130 Rod End <i>Right hand thread, nickel plated and PTFE lined.</i>	49.40

THIN JAM-NUTS

Jam nuts are used to lock the rod end in the mating female threaded connector. We can supply thin steel nuts of aircraft quality or M/W produced from 7075 aluminum and gold coated. Currently the 3/4 and 1/2" sizes are available in aluminum with more to follow.

N5R	5/16-24 R.H. Jam Nuts, (6 pcs)	5.25
N5L	5/16-24 L.H. Jam Nuts, (6 pcs)	12.54
N6R	3/8-24 R.H. Jam Nuts, (6 pcs)	6.99
N6L	3/8-24 L.H. Jam Nuts, (6 pcs)	12.39
N7R	7/16-20 R.H. Jam Nuts, (6 pcs)	9.30
N7L	7/16-20 L.H. Jam Nuts, (6 pcs)	13.65

33C-3	3' Morse Push/Pull Cable	44.07
33C-4	4' Morse Push/Pull Cable	51.00
33C-5	5' Morse Push/Pull Cable	45.30
33C-6	6' Morse Push/Pull Cable	45.51
33C-7	7' Morse Push/Pull Cable	52.31
33C-8	8' Morse Push/Pull Cable	50.59
33C-9	9' Morse Push/Pull Cable	49.89
33C-10	10' Morse Push/Pull Cable	56.67
33C-11	11' Morse Push/Pull Cable	57.58
33C-12	12' Morse Push/Pull Cable	58.74
33C-13	13' Morse Push/Pull Cable	59.91
33C-14	14' Morse Push/Pull Cable	70.63
33C-24	24' Morse Push/Pull Cable	72.66
A-31800	Clevis, 10-32 thread	7.32
A-31804	Clamp & Shim	6.42
A-36174	Quick Release Clamp	16.16
A-37000	Clamp, Aluminum Morse Cable	15.53
CW3	3/16" Female Rod End	6.76

RXAM10T	3/4"-16 4130 Male Rod End <i>5/8" ball, right hand thread, nickel plated and PTFE lined.</i>	98.98
RXAB10T	3/4"-16 4130 Male Rod End <i>5/8" ball, left hand thread, nickel plated and PTFE lined.</i>	100.56
RAM12T	3/4"-16 4130 Male Rod End <i>Right hand thread, nickel plated and PTFE lined.</i>	106.56
RAB12T	3/4"-16 4130 Male Rod End <i>Left hand thread, nickel plated and PTFE lined.</i>	106.56
XAM6	7/16"-20 4130 Male Rod End <i>3/8 ball, right hand thread.</i>	29.74
XAB6	7/16"-20 4130 Male Rod End <i>3/8 ball, left hand thread.</i>	29.74
XAM10	3/4"-16 4130 Male Rod End <i>5/8 ball, right hand thread.</i>	68.24
XAB10	3/4"-16 4130 Male Rod End <i>5/8 ball, left hand thread. 5/8 ball, left hand thread.</i>	68.24
RXAM-8T-3	3/4"-16 4130 Male Rod End <i>3/4 Shank, Teflon Lined. 1/2" ball, right hand thread.</i>	107.46
RXAB-8T-3	3/4"-16 4130 Male Rod End <i>3/4 Shank, Teflon Lined. 1/2" ball, left hand thread.</i>	109.06



MILD STEEL ROD ENDS

CM3	10-32 Male Rod End	6.88
CW3	10-32 Female Rod End	6.76
CW4	1/4"-28 Female Rod End	6.98
CM5	5/16"-24 Male Rod End	8.68
CB5	5/16"-24 Left Hand Male Rod End	7.08
CW5	5/16"-24 Female Rod End	7.70
CM6	3/8"-24 Male Rod End	8.68
CB6	3/8"-24 Male Left Hand Rod End	8.68
CM7	7/16"-20 Male Rod End	10.26
CB7	7/16"-20 Male Left Hand Rod End	10.26
CM8	1/2"-20 Male Rod End	13.68
CB8	1/2"-20 Male Left Hand Rod End	13.68

Mark Williams Enterprises stocks a complete line of mild steel Aurora® spherical rod ends. The mild steel rod ends listed here are a 2 piece design and are ideal for applications such as throttle, shifter, clutch linkage, and other light duty applications.



CM10	5/8"-18 Male Rod End	18.46
CB10	5/8"-18 Male Left Hand Rod End	18.46
CM12	3/4"-16 Male Rod End	25.02
CB12	3/4"-16 Male Left Hand Rod End	25.02
XM10	3/4"-16 Male Rod End	39.34
<i>3/4-16 Thread on shank with 5/8" hole in ball.</i>		
XB10	3/4"-16 Male Left Hand End	39.34
<i>3/4-16 Thread on shank with 5/8" hole in ball.</i>		

TUBE ADAPTERS

MW weld in tube adapters make fabricating linkage, struts, or any application that requires joining a male rod end or threaded clevis to chromoly tubing a snap. All MW tube adapters are CNC machined and lead screw tapped to ensure a precise and square part.

10510	Tube Adapter, 5/16"-24 to 5/8 x .058	8.20
10510L	Tube Adapter, 5/16"-24 L.H. to 5/8 x .058	8.20
10610	Tube Adapter, 3/8"-24 to 5/8 x .058	5.26
10610L	Tube Adapter, 3/8"-24 L.H. to 5/8 x .058	5.26
10612	Tube Adapter, 3/8"-24 to 3/4 x .058	6.72
10612L	Tube Adapter, 3/8"-24 L.H. to 3/4 x .058	6.72
10614	Tube Adapter, 3/8"-24 to 7/8 x .058	6.70
10614L	Tube Adapter, 3/8"-24 L.H. to 7/8 x .058	6.70
10714	Tube Adapter, 7/16"-20 to 7/8 x .058	9.04
10714L	Tube Adapter, 7/16"-20 L.H. to 7/8 x .058	9.04
10814	Tube Adapter, 1/2"-20 to 7/8 x .058	10.36
10814L	Tube Adapter, 1/2"-20 L.H. to 7/8 x .058	10.36
10816	Tube Adapter, 1/2"-20 to 1 x .058	11.20
10816L	Tube Adapter, 1/2"-20 L.H. to 1 x .058	11.20
11016	Tube Adapter, 5/8"-18 to 1 x .058	11.20
11016L	Tube Adapter, 5/8"-18 L.H. to 1 x .058	11.20
11018	Tube Adapter, 5/8"-18 to 1 1/8 x .083	12.00



11018L	Tube Adapter, 5/8"-18 L.H. to 1 1/8 x .083	12.00
11218	Tube Adapter, 3/4"-16 to 1 1/8 x .083	12.00
11218L	Tube Adapter, 3/4"-16 L.H. to 1 1/8 x .083	12.00
11220	Tube Adapter, 3/4"-16 to 1 1/4 x .058	13.00
11220L	Tube Adapter, 3/4"-16 L.H. to 1 1/4 .058	13.00
11221	Tube Adapter, 3/4"-16 Thread	13.00
<i>For 1-1/4 x .095 tubing, for 4-link rear suspension</i>		
11221L	Tube Adapter, 3/4"-16 L.H. Thread	13.00
<i>For 1-1/4 x .095 tubing, hex wrench driver for 4-link</i>		

toll free
800-525-1963

on the web
www.markwilliams.com

CHASSIS BRACKETS & TABS

All of the MW brackets and tabs listed below are manufactured from 1/8" thick 4130N chromoly steel, except for 10010 and 15010 which are 3/16" thick and D5 which is 1/16" thick chromoly.

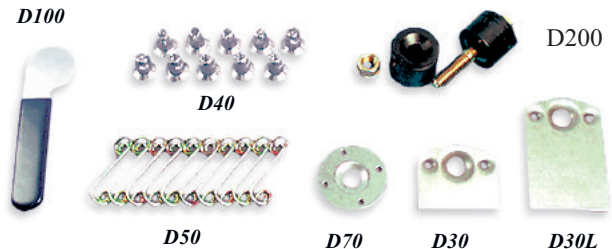


10010	Mounting Tab for Clevis (5/16" hole)	7.19
15010	Torsion Mounting Brackets, 3/16" (set of 4) <i>For 34002 3" drop x 40" centers</i>	61.00
D11	Anti-Rotation Tab (3/8" Hole)	3.20
D12	Chassis Radius Rod Mount Bracket	5.72
D1A	Small Motor Mount Tab (3/8" Hole)	3.45
D2	Large Flat Mount Tab (3/8" Hole)	4.07
D20	Large Motor Mount Tab (No hole)	14.35
D21	Small Flat Mounting Tab (3/8" Hole)	1.65
D26	Weld-In Clevis for 7/8" Tube (3/8 Rod End)	3.69
D5	Steering Wheel Mount Plate	4.25
D150	Motor Mount Clamp, 1-1/2" (ea) <i>Fits 1-1/4" to 1-1/2" diameter tubing. Quantity pricing available.</i>	7.00
QTL	Frame Rail Tail Light 1.5" diameter	88.50

DZUS FASTENERS & TOOLS

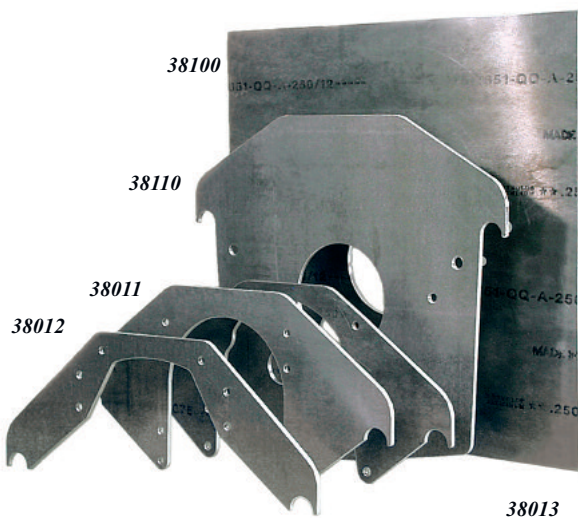
D30	Dzus Mounting Tab, (ea)	.98
D30-100	Dzus Mount Tabs, (pack of 100)	61.95
D30L	Dzus Mounting Tab, 3" Long (ea)	1.44
D30L-100	Dzus Mounting Tab, 3" Long (100)	74.00
D40	Dzus Buttons, Steel (10 ea.)	18.32
D40-100	Dzus Buttons, (pack of 100)	150.80
D50	Dzus Springs, (pack of 10)	13.52
D50-100	Dzus Springs, (pack of 100)	101.39
D70	Panel Doubler (Round)	.71
D100	Dzus Button Wrench	9.00
D200	Dzus Dimpling Tool	22.50

Dzus fasteners are the most widely accepted method of securely attaching aluminum body panels, fiberglass panels, seats, etc. MW stocks the popular buttons, springs, tabs, and panel doublers along with the proper dimpling, and installation tools, and button wrench.



ENGINE MOUNTING PLATES

All MW engine mounting plates are manufactured from 1/4" thick 7075-T6 aluminum plate and CNC machined with common crankshaft centerlines to ensure exact fit and interchange-ability even from one engine make to another. Semi-Finished plate Has the 6" crankshaft hole, dowel pin, and 2" vent holes.

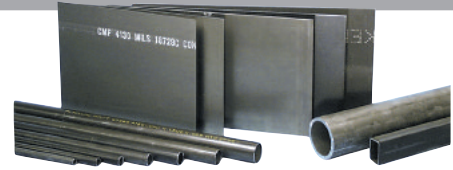


38010	Engine Mount Plate Blank <i>12" x 24" Front blank. 1/4" thick (no holes)</i>	105.00
38100	Rear Engine Mount Plate <i>24" x 24" Semi-Finished with crank and vent holes and choice of dowel pin holes. 1/4" thick.</i>	229.00
38115	Rear Engine Mount Plate <i>For Funny Car and Altered with crank and vent holes. Milled for 1 1/2" tube size. Choice of dowel pin holes. Top section is not profiled. 1/4" thick. (photo not shown)</i>	240.00
38110	Rear Engine Mount Plate <i>For Dragster with crank and vent holes. Milled for 1 1/4" tube size. Choice of dowel pin holes. 1/4" thick.</i>	240.00
38011	Front Engine Mount Plate <i>Small Block Chevrolet for Dragster & Funny Car. 1/4" thick.</i>	130.00
38012	Front Engine Mount Plate <i>Late Model Chrysler for Dragster and Funny Car. 1/4" thick.</i>	130.00
38013	Front Engine Mount Plate <i>Big Block Chevrolet for Dragster & Funny Car. 1/4" thick.</i>	130.00



CHROMOLY TUBING & PLATE

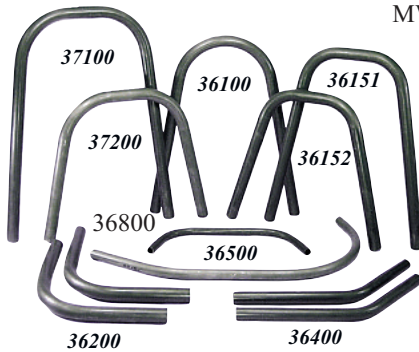
All MW 4130 tubing is certified aircraft quality material that meets 6736 specifications. Small quantities of under a 100' are sold at the cut price. Large quantities of 100' or more are sold at the 100' price. Different tubing sizes can be combined to produce an order of more than 100' but they must be full lengths. Full lengths can be anywhere from 17' - 24'.



PART#	DESCRIPTION	LBS./FT	CUT	100'
0375x058	3/8 x .058 Tube	.20	13.35	8.90
0500X058	1/2 x .058 Tube	.27	14.79	9.28
0625X058	5/8 x .058 Tube	.35	14.76	9.84
0750X058	3/4 x .058 Tube	.43	11.11	7.40
0875X058	7/8 x .058 Tube	.51	12.21	8.14
1000X058	1 X .058 Tube	.58	10.77	7.18
1125X058	1 1/8 x .058 Tube	.66	13.62	9.08
1125X083	1 1/8 x .083 Tube	.92	18.00	12.00
1250X058	1 1/4 x .058 Tube	.74	12.69	8.64
1250X083	1 1/4 x .083 Tube	1.03	17.16	11.44
1250X095	1 1/4 x .095 Tube	1.17	21.75	14.50
1375X058	1 3/8 x .058 Tube	.82	15.39	6.26

1375X065	1 3/8 x .065 Tube	.91	16.83	6.26
1375X095	1 3/8 x .095 Tube	1.30	20.85	13.90
1500X058	1 1/2 x .058 Tube	.89	13.74	9.16
1500X065	1 1/2 x .065 Tube	1.00	14.73	9.82
1500X120	1 1/2 x .120 Tube	1.77	22.50	15.00
1625X083	1 5/8 x .083 Tube	1.37	16.59	11.06
1625X188	1 5/8 x .188 Tube	2.88	35.79	23.86
3000X250	3 x .250 Tube	7.34	72.63	
3250X250	3 1/4 x .250 Tube	8.01	74.52	
4130-062	Sheet Steel, 4130 1/16" Thick 9" X 12" . .	.33.25		
4130-125	Sheet Steel, 4130 1/8" Thick 9" x 18" . .	.60.25		
4130-187	Sheet Steel, 4130 3/16" Thick 9" x 18" . .	.75.75		
4130-250	Sheet Steel, 4130 1/4" Thick 9" X 18" . .	.91.10		

PRE-BENT CHROMOLY TUBING



MW's stock of pre bent tubing includes, roll bars, shoulder hoops, dragster frame rails etc. These items are all mandrel bent in-house and designed for the professional or the do-it-yourself chassis builder.

12041	Driveshaft Loop (2 pcs) . . . . .	.54.00
	<i>7/8 x .058 4130 tube. 180° bends. 5" wide inside.</i>	
36100	Dragster Roll Bar (single bend) . . . . .	.81.50
	<i>24" tall x 19 1/2" centers, 1-5/8 x .083 4130 tube.</i>	
36151	Double Bend Dragster Roll Bar . . . . .	.82.00
	<i>24" tall x 19 1/2" centers, 1-5/8 x .083 4130 tube, 2 bends.</i>	
36152	Double Bend Drag Secondary Roll Bar . . . . .	.56.10
	<i>19" tall x 19 1/2" centers 1-5/8 x .083 4130 tube, 2 bends.</i>	
36155	Helmet Guard Tubes (pr) . . . . .	.62.00
	<i>1 x .058 4130 tube, 2 bends..</i>	
36161	Double Bend Dragster Roll Bar . . . . .	.62.50
	<i>24" tall x 19 1/2" centers, 1-1/2 x .065 4130 tube, 2 bends.</i>	
36162	Double Bend Drag Secondary Roll Bar . . . . .	.48.50
	<i>19" tall 19 1/2" centers 1-1/2 x .065 4130 tube, 2 bends.</i>	
36171	Double Bend Dragster Roll Bar (6" radius) . . . . .	.64.50
	<i>24" tall x 19 1/2" centers, 1-1/2 x .065 4130 tube, 2 bends.</i>	
36172	Double Bend Drag Sec. Roll Bar (6" radius) . . . . .	.62.50
	<i>19" tall 19 1/2" centers 1-1/2 x .065 4130 tube, 2 bends.</i>	
36200	Dragster Roll Bar Back Brace . . . . .	.46.00
	<i>14" tall x 16" deep, 90 degree bend, 1 5/8 x .083 4130 tube.</i>	
36260	Dragster Roll Bar Back Brace . . . . .	.41.00
	<i>14" tall x 16" deep, 90 degree bend, 1 1/2 x .065 4130 tube.</i>	

36300	Dragster Shoulder Hoop	158.00
	<i>19" inside x 72" tall, 1 1/2 x .058 4130 tube</i>	
36350	Dragster Shoulder Hoop	99.00
	<i>19" inside x 36" tall, 1 1/2 x .058 4130 tube.</i>	
36360	F.E. Dragster Shoulder Hoop	181.50
	<i>Up to 22" inside x 82" tall, 1 1/2 x .058 4130 tube.</i>	
36370	F.E. Dragster Lower Hoop	199.05
	<i>17" inside, 1 3/8 x .058 4130 tube w/kick up bends.</i>	
36375	F.E. Dragster Lower Hoop (1 bend)	178.75
	<i>17" inside, 1 3/8 x .058 4130 tube w/kick up bends.</i>	
36400	Dragster Support Tube (1)	43.58
	<i>Upper to lower rail 1 3/8 x .095 4130 tube.</i>	
36500	Dragster Seat Former	56.00
	<i>1 1/4 x .058 4130 tube.</i>	
36550	Dragster Seat Former	57.24
	<i>1 3/8" x .058" 4130 tube</i>	
36800	Steering Mount Cross Tube	41.25
	<i>1" x .058 4130 tube.</i>	
37100	Funny Car Roll Bar	110.00
	<i>29" tall x 21 1/2" centers, 1 5/8 x .083 4130 tube.</i>	
37200	Funny Car Secondary Roll Bar	88.00
	<i>19 1/2" tall x 21 1/2" centers, 1 5/8 x .083 4130 tube.</i>	
37400	Funny Car Shoulder Hoop	166.00
	<i>20" inside x 74" tall, 1 1/2 x .058 4130 tube.</i>	

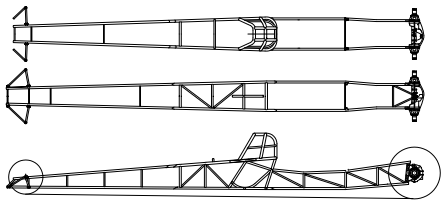
BEND PACKAGES

37000	Funny Car Bend Package	456.00
	<i>Roll bar, secondary roll bar, 2 back braces & shoulder hoop.</i>	
38000	F.E. Dragster Bend Package	589.55
	<i>Includes shoulder hoop, lower rail hoop, first and second roll bars, and the back brace.</i>	
36050	R.E. 1 5/8" Dragster Bend Package	388.10
	<i>Roll bar, secondary roll bar, back braces and shoulder hoop.</i>	
36060	R.E. 1 1/2" Dragster Bend Package	351.00
	<i>Roll bar, secondary roll bar, back braces and shoulder hoop.</i>	

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www.markwilliams.com

CHASSIS TOOLS AND INSTRUCTION



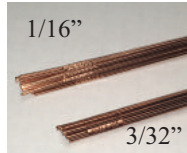
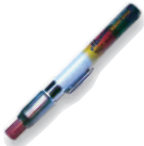
This DVD Video contains information on the BIG Picture on tubular chassis constructions. Although this video is done on a Top Alcohol Dragster from years past, its value is in knowing correct construction steps. It shows the method of building the chassis from the rear differential around the engine to the front end to result in the desired ground clearance. This general knowledge is the source for many of the current popular chassis builders today. Even If you are considering purchasing a chassis from you local builder, it will give your basic knowledge of the correct construction methods.



10004 Chassis Construction DVD90.00

FILLER ROD & TEMP STICK

A temp stick along with an oxy-acetylene torch should be used to normalize critical weld areas such as drivers compartment, rear end mounts etc. MW recommends ER70S-2 filler rod for tig welding chromoly. It is a triple deoxidizer for a clean and ductile weld joint.

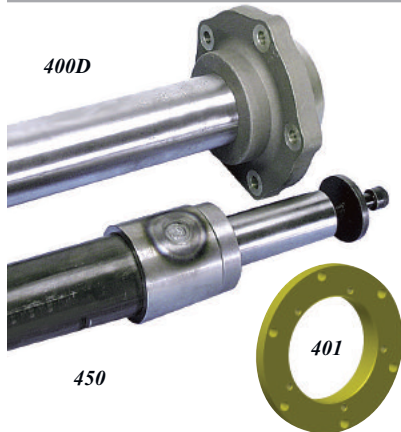


10008 Temperature Stick Indicator38.74
1050 degrees.

65-062 1/16" Oxweld 65 Welding Filler Rod13.85/lb
Photo shows the amount in one pound

65-093 3/32" Oxweld 65 Welding Filler Rod14.47/lb
Photo shows the amount in one pound

DRIVELINE ALIGNMENT BARS



The Mark Williams 9" alignment bar is manufactured from 2-1/2" diameter heavy wall D.O.M. tubing with a CNC machined aluminum flange attached to one end. This aluminum flange bolts directly to the front of a 9" Ford thirdmember case in place of pinion support and allows for perfect alignment between rear end and engine. With an overall length of 80" this bar can be used for dragster as well as funny car/altered chassis construction. Door car chassis construction can use this also by extend the tube length with a piece of 3" x 1/4" wall tubing. This will work as long as the engine block has a 3" or larger main bore. The 12 bolt alignment bar uses a steel pilot that is inserted into the seal bore along with a standard rear pinion bearing (not supplied) to align the bar in the center section. Works with stock and MW modular 12 bolt rears.

400D 9" Ford Driveline Alignment Bar370.00

401 Adapter to Use 400D on MW 11" Rear, Aluminum Gold Coated192.50

450 12 Bolt Driveline Alignment Bar295.00

A-ARM JIG TUBE FITTING TOOLS

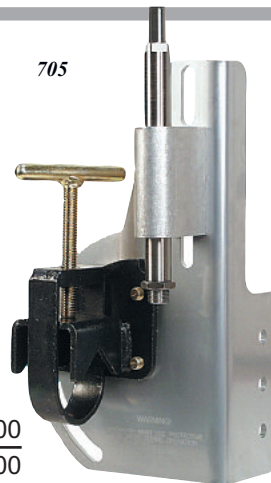


33600
Spindle
not
included

The MW A-Arm jig simplifies installing an a-arm front end on a dragster or funny car chassis. The spindle is fastened through the upright and set to the proper caster angle with a bubble protractor. This is normally used for cars with standard 17" dragster or 15" FC spindle mount front wheels. The uprights can be positioned anywhere along the 1-1/2" square cross tube (included) to produce the desired front end tread width. The cross tube is clamped to the bottom of the chassis rails with shims to make the appropriate ground clearance.

705 Tubing Notcher167.00

33600 A-Arm Fixture195.00

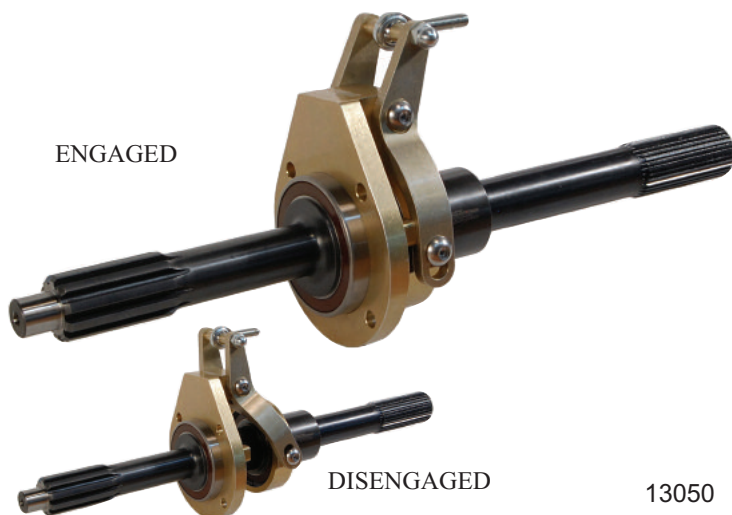


705

The Tubing Notcher tool will help you produce tight fitting joints that will result in better welds and a nicer finished product. This is the original Ol' Joint Jigger tool not a cheap Chinese copy. A standard bi-metal hole saw is all that's needed. The unit can be used with a drill press or a 1/2" drill motor.



CLACKLE-SAFE DISCONNECT



When attached to the bell housing, this device allows the driver to disconnect the output shaft from the driveshaft and safely run the car without having to hold in the clutch pedal. This eliminates the possibility of a foot slipping of the pedal and reduces wear on the clutch springs. All normal driveline couplers stay engaged and do not rotate while the engine is running. The sliding coupler, output shaft, and driveshaft are made of heat-treated alloy steel, while the bearing retainer and fork assembly are machined from billet aluminum. The output shaft and driveshaft are custom made to the length required for your car depth and engine location.

13050 Clackle-Safe Disconnect1752.00'

CV DRAGSTER DRIVE SHAFT



This kit includes everything required to convert to a CV shaft. The 7075 aluminum transmission housing that bolts to the transmission is 27-spline. The CV joints are race-prepped with our Supra-Fin™ isotropic super finishing process and lightened. The CV is assembled and pre-lubed. The CV joint includes retaining cups and high-speed boots with gaskets that keep the lubricant in place. The center drive-shaft is produced from 300M material and shot peened. The CV 9" differential pinion flange is included and available in the 28 and 35-spline configurations. All exposed steel parts are finished with a Cerakote ceramic coating for rust prevention.

- 39371 CV Drive Assembly Powerglide-9" Ford . . .1600.00
For 27 spline output. 28 or 35 spline 9" rear
- 39372 CV Drive Assembly Powerglide-9" Ford . . .1600.00
For 32 spline output. 28 or 35 spline 9" rear
- 39360 CV Drive Long Tailhousing Flange725.00
For 32 spline (only)mid length Powerglide Tail housing
- 39373 CV Drive Long Tailhousing Assy1412.00
For 32 spline mid length Powerglide Trans & 9" rear.

The 39373 assemblies are for mid length tail housing with a 32-spline output and longer engine to transmission distances.

The center shafts are made to fit your specific chassis-engine-transmission combination, and the assembly is delivered ready for bolt-in installation. See Service Bulletin 113 for length ordering information or call 800-525-1963 .

DRIVESHAFT SAFETY LOOPS

Our driveshaft safety loop attaches directly to the differential third member, eliminating tubular structures that attach to the chassis.

The front section loop is removable by four retaining bolts allowing easy drive shaft removal. The open design allows removal of the rear universal retaining bolts that are impossible to remove with enclosed tube designs. Constructed from 4130 material this satisfies the NHRA rule requirements for a "retainer loop 360 degrees of enclosure".

Available for both 9" Ford and MW 11" differentials

- 57625 Drive Shaft Loop Assembly295.00
9" Thirdmember, for 7/16 stud size
- 90725 Drive Shaft Loop Assembly310.00
11" Modular rear, 7/16" stud size



toll free
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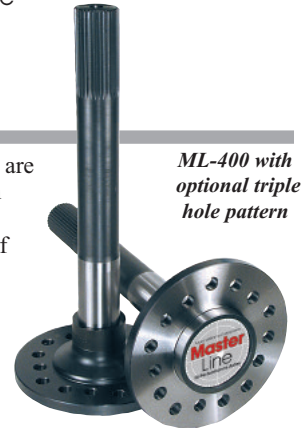
MasterLine

For over 50 years the name "Mark Williams" has been synonymous with the ultimate in quality and reliability. But there are those racers who feel their combination doesn't require the "ultimate". With this in mind, Mark Williams Enterprises offers the **MasterLine** series of driveline components for Street and Strip (10 sec. and up) applications. **MasterLine** components include axles, bearings, spools, gear sets, and nodular iron 9" Ford cases.

MasterLine AXLES

Machined from special alloy steel forgings, **MasterLine** axles are ideal for cars as quick as 9.90. **MasterLine** axles are all custom CNC machined to length. They feature thick flanges, 1/2" -20 threaded holes for your specific pattern. An upgrade for 5/8 stud size is available. We can provide any spline up to 35 tooth, true involute form. hobbled splines (before heat treating), an in house double heat treat, precision ground bearing journals to ensure the correct press fit of axle bearings, and adjustable bearing seats to allow precise brake system alignment.

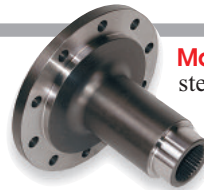
ML-400 **MasterLine** Axles, 28 to 35 spline (pr)568.00



ML-400 with optional triple hole pattern

MasterLine SPOOLS

ML-132 8.8 Ford 35 Spline Spool279.00
 ML-140 9" Ford for 2.893" or 3.062" Bore Case ...279.00
 ML-146 9" Ford for 3.250" Bores279.00
 ML-160 12 Bolt Chevrolet 3.062 Stock Bore279 .00



MasterLine spools are CNC machined from alloy steel forgings and heat treated in-house. Plus, the bearing journals and ring gear flange are precision ground. All have Mark Williams 35 spline.

MasterLine BEARINGS

ML-001 Mopar Axle Bearings, 2.875" O.D. (pr)96.55
 ML-003 Mopar Axle Brng, 2.875" w/snap ring (pr) ..106.55
 ML-250 Small GM "C" Clip Eliminator kit211.00
 ML-507 Ford/Olds Axle Bearings, 3.150" O.D. (pr) ..98.77
 ML-803 Mustang Axle Bearings, 2.835" O.D. (pr)91.55

MasterLine bearings are sealed and feature a 1.562" I.D. and an "O" ring around the outside of the bearing to eliminate the need for an inner housing seal. Available for large and small Ford, Olds/Pontiac, Mopar and GM 10 & 12 Housing ends and Bolt C-clip eliminator kit. Even though it is a sealed bearing an inner housing end seal is recommended.



MasterLine DRIVESHAFTS

MasterLine driveshafts are custom built from 3" x .083 DOM mild steel tubing or 6061 aluminum with Spicer 1350 series weld yokes and Spicer precision 1350 series U joints. Special assembly fixtures guarantee proper weld yoke phasing during assembly. Every shaft is electronically balanced with the transmission yoke installed to ensure vibration free operation. Prices includes the forged billet MW4340 transmission yoke.

ML-600 3" x .083 Mild Steel Driveshaft621.00
Any length with u-joints, includes transmission yoke.
 ML-39200 3.5" x .125" 6061 Aluminum Shaft670.00
Any length with u-joints, Includes transmission yoke.
 ML-39300 4" x .125" 6061 Aluminum Shaft825.00
Any length with u-joints, includes transmission yoke.

ML-39200



MasterLine CASES

MasterLine nodular cases feature tough nodular iron castings that are CNC machined, billet steel main caps and bearing adjusters, and extra reinforced pilot bearing area. (3/8" pinion support studs are available)

ML-460 Nodular Iron Case w/ 3.062" Bores545.00
Steel caps and billet adjusters, adjuster locks
 ML-470 Nodular Iron Case w/ 3.250" Bores545.00
Steel caps and billet adjusters, adjuster locks



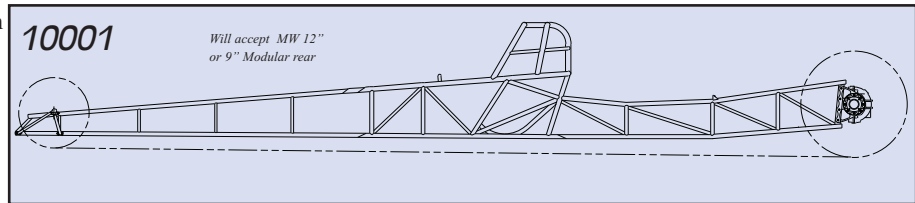
CHASSIS PLANS

For those drag racers that want to build their own race car from scratch, Mark Williams offers the plans and bill of materials required for the construction. Plans are available for several Dragster chassis or A- Altered/Funny car. The material specified will conform to the appropriate SFI (SEMA Foundation Inc.) specification, if constructed accordingly. Since their introduction, MW kit car plans have proven to be very competitive in various classes ranging from Economy Altered to Alcohol dragsters. The construction of any chassis requires a level of experience necessary to complete the project satisfactorily. We are supplying the basic dimensioned print for each chassis. No two cars are built alike, and you will find it necessary to determine dimensions based on engine placement, transmission type, driver size, wheel base, and ground clearance desired. The tubing will need to be fitted for each joint utilizing a tool specifically for "fish mousing" joints. We suggest purchasing the DVD video to review the construction methods before committing to build the chassis from the prints.

10004 Dragster Chassis Construction Video DVD (Covers solid mount dragster chassis construction only)90.00

SOLID REAR ENGINE DRAGSTER PLANS

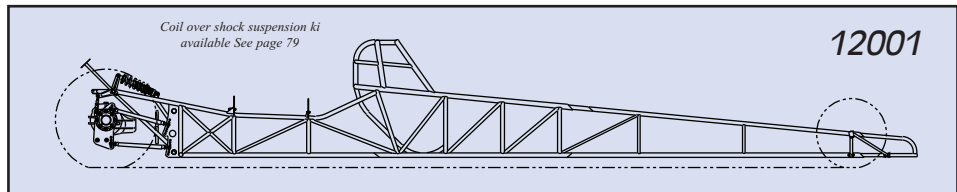
Top Alcohol type chassis plans designed with solid mounted 92000 MW modular 9" aluminum housing. This chassis is to be constructed with the 11" Modular rear. Plans include a bill of materials list. Parts list includes: Steering hardware with rack and pinion box, engine mounting plates, and all of the pre bent and straight tubing required to build a chassis. The drawing can be used to build a chassis the meets the SFI 2.3K chassis specs.



10001 Plans and Bill of Materials List, Top Alcohol Dragster90.00

4-LINK ENGINE DRAGSTER PLANS

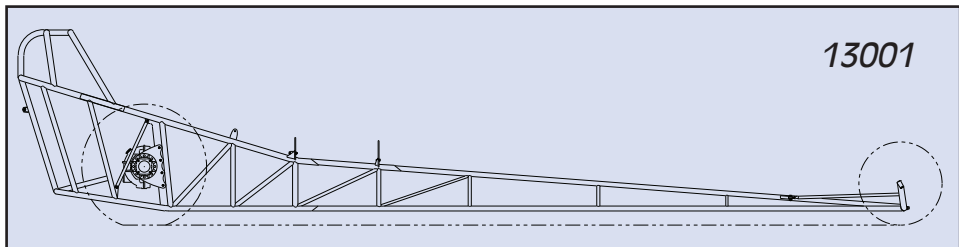
Chromoly chassis with unique mono-shock rear suspension and MW modular 12 bolt housing w/billet aluminum 4 link brackets. Plan and bill of materials includes monoshock rocker shaft and arms, 4-link and wishbone kits, complete steering with rack and pinion box, engine mounting plates and all the pre bent and straight tubing to build a chassis that meets the current SFI 2.5 chassis specs.



12001 Dragster Blueprint and Bill of Materials, 4-Link Suspension90.00

FRONT ENGINE DRAGSTER PLANS

Chromoly chassis with 92000 MW modular 9" aluminum housing. Meets the current SFI 2.2B chassis specs for new front engine dragsters (6.29 and quicker). Plans include bill of materials for: modular housing steering with standard box, engine mounting plates and all of the pre bent and straight tubing to build a basic chassis. Supercharged applications will require a full floater housing.



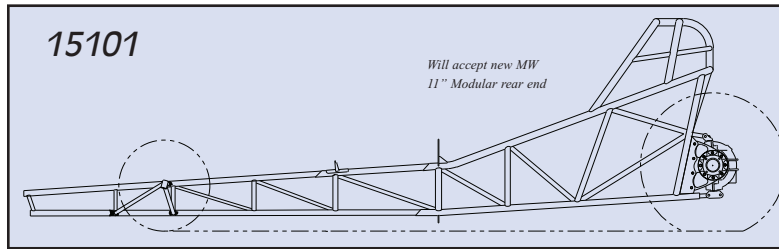
13001 Front Engine Dragster Blueprint and Bill of Materials90.00

We can still supply all of the components that were available in the kit car packages.
BILL OF MATERIAL LISTS ARE AVAILABLE ON OUR WEB SITE AT WWW.MARKWILLIAMS.COM/BILLMAT

toll free
800-525-1963

on the web
www.markwilliams.com

FUNNY CAR/ALTERED PLANS



Plans are designed utilizing the 92000 MW modular 9" or 11" Modular aluminum housing. Bill of materials include: Spindles and linkage for standard box, engine mounting plates and all the pre bent and straight tubing to build a basic chassis that will meet the current SFI 10.1E chassis specs for new Funny Car or Altered. When built to print chassis can be certified for any class up to Nitro Funny Car. Supercharged applications will require a full floater housing.

15101 Funny Car or Altered Blueprint and Bill of Materials90.00

PROMOTIONAL ITEMS



WC	Wall Clock Axle Logo	16.00
MWTAPE	Inch/Metric 10' Tape	Free with Purchase
ML-DEC	MasterLine Round Decal	1.00
DEC	MW Round Decal	1.00
DEC-DS	MW Driveshaft Decal (die cut)	1.00
DEC-DB	MW Disc Brake Decal (die cut)	1.00
DSP	Driveshaft Poster 24" X 36"	Free with Purchase

T-FC	MW cotton T-shirt, Funny Car (specify size) <i>Black or white, specify size</i>	15.00
T-PM	MW cotton T-shirt, Pro Mod (specify size) <i>Black or white, specify size</i>	15.00
T-PS	MW cotton T-shirt, Pro Stock (specify size) <i>Black or white, specify size</i>	15.00
T-SS	MW cotton T-shirt, Super Stock (specify size) <i>Black or white, specify size</i>	15.00

