


AME OFFROAD



MORRISON

Engineered to Perfection



American Made-Fife, WA

AME OFFROAD

A New Spark for an Old Flame



Our 1974 GMC K2500 proudly served for 47 years as Mapleton Fire Brush Truck 101, where it navigated rough wildland terrain from 1974-2021. With only 15,600 miles this rig is amazingly well-preserved with an impeccable patina, in-tact original build sheet, like-new interior, glass and Power Beam headlights as well as its emergency lighting and public address system. Originally designed for maneuverability and accessibility, it was the obvious choice for our new Offroad line-up.

Breathing new life into this iconic rig, AME's 4x4 showpiece maintains all of its brush truck identifying features including the lettering and emergency lighting. Diverging from its previous stance, the AME brush truck features the Full Float Rear Axle edition of the AME Offroad chassis line-up to demonstrate its competition ready capabilities with 40" tires but only a moderate lift.

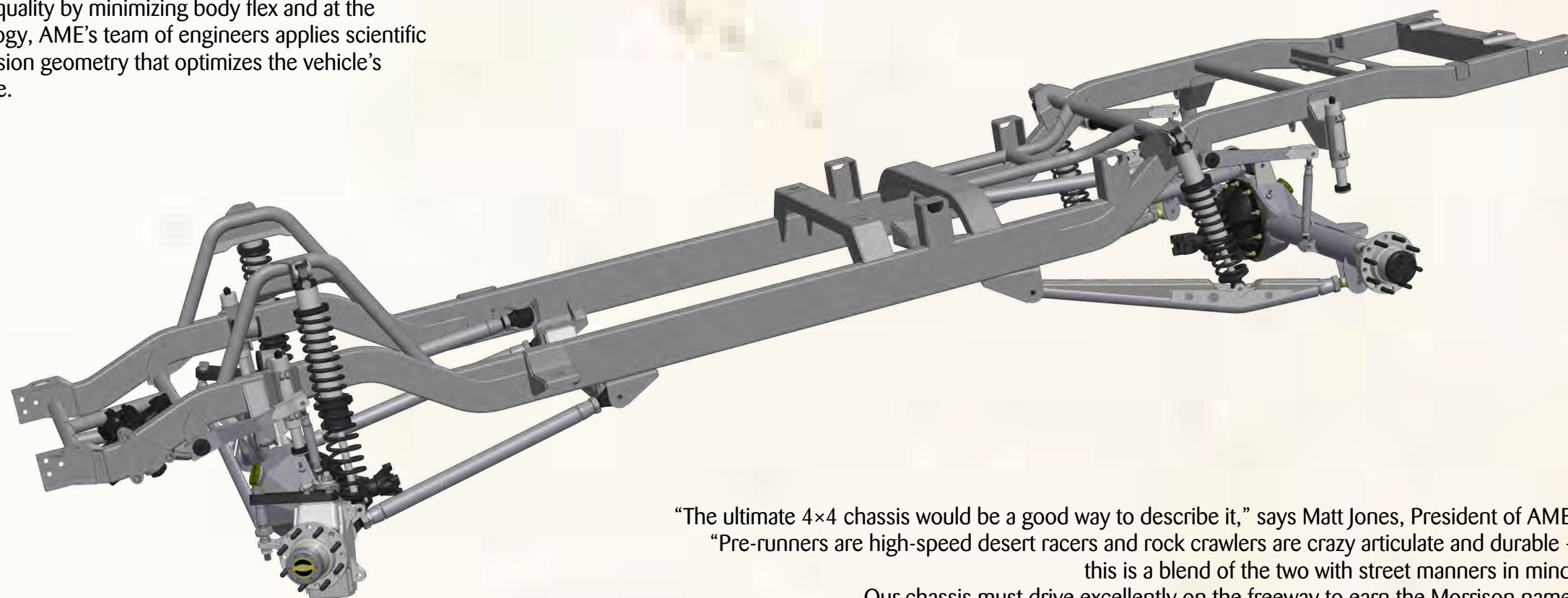
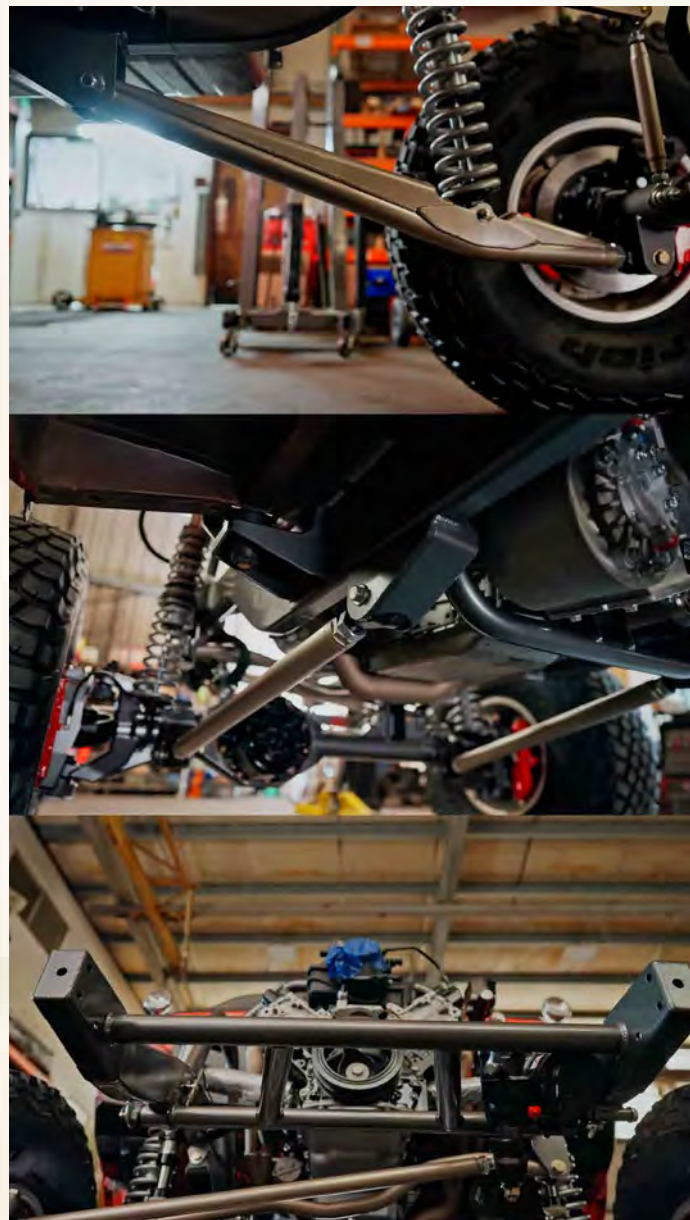


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The Ultimate Foundation

Much like architecture relies on a solid foundation, a quality built and engineered chassis is a crucial foundation for any great car build. At the heart of every AME chassis are exceptionally rigid rectangular-tube frame rails made of proprietary steel, which are mandrel-bent for consistent wall thickness. Far more rigid than early pressed C-channel frame rails, the rectangular rails improve ride quality by minimizing body flex and at the same time reducing squeaks and rattles. Using the latest technology, AME's team of engineers applies scientific principles and advanced software to analyze and improve suspension geometry that optimizes the vehicle's performance and handling while maintaining its iconic appearance.



"The ultimate 4x4 chassis would be a good way to describe it," says Matt Jones, President of AME.

"Pre-runners are high-speed desert racers and rock crawlers are crazy articulate and durable – this is a blend of the two with street manners in mind.

Our chassis must drive excellently on the freeway to earn the Morrison name.

It's capable of high-speed off-road use, crawling over huge stumps and comfortably driving home without worry of what just broke."

Maintaining AME's high-standards for streetability, durability, performance and handling

AME's offroad chassis features unparalleled suspension geometry for optimized traction, braking and body control, even in the toughest environments.



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Engineering Adventure

An industry-leader since 1971, the Art Morrison Enterprises (AME) engineering team is unleashing its ground-breaking, evolutionary spirit on the 4x4 aftermarket. The ultimate 4x4 chassis is engineered to optimize maneuverability while maintaining the high-standards for performance and handling, which our customers have come to expect.

- **Optimized Traction, Braking & Body Control**

Engineering the suspension geometry for optimum traction, braking and body control in even the toughest environments.

- **Modularity**

Keeping "modularity" at the forefront by engineering the suspension geometry to easily adapt to a wide range of vehicles.

- **Driveability, Durability & Capability**

Selecting key components with driveability, durability and capability as the main driving factors.

- **Quality & Performance**

Ensuring AME's high standards for quality and performance are maintained our Offroad chassis continues the long-standing AME tradition of in-house metal-forming and CNC machining as many parts as possible including the control arms, steering linkage, axles and front knuckles.

- **Ensuring Flexibility**

Imploring 35 spline one-ton unit bearings to utilize manual locking hubs while remaining compatible with the 5, 6 and 8 lug wheel patterns.

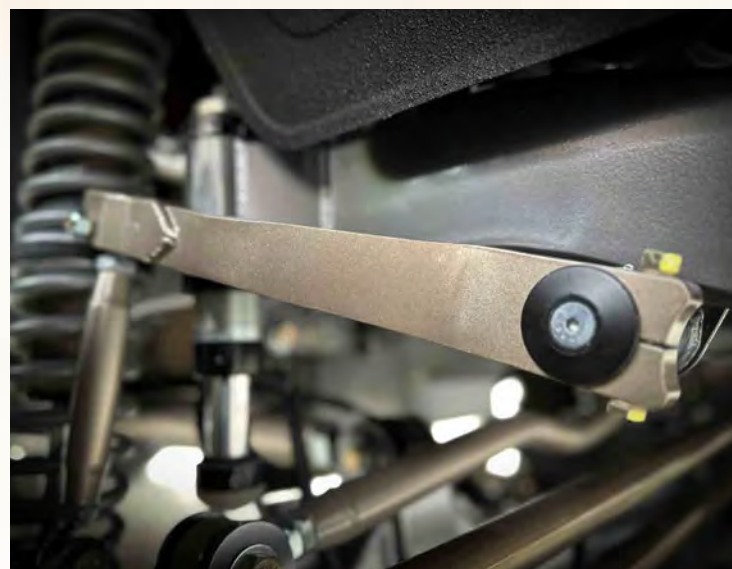
- **Robust Axle Housing**

The axle housings feature extra large 3.5" outer diameter, 1/2" wall DOM tubing.

- **Exceptionally Rigid Frame Rails**

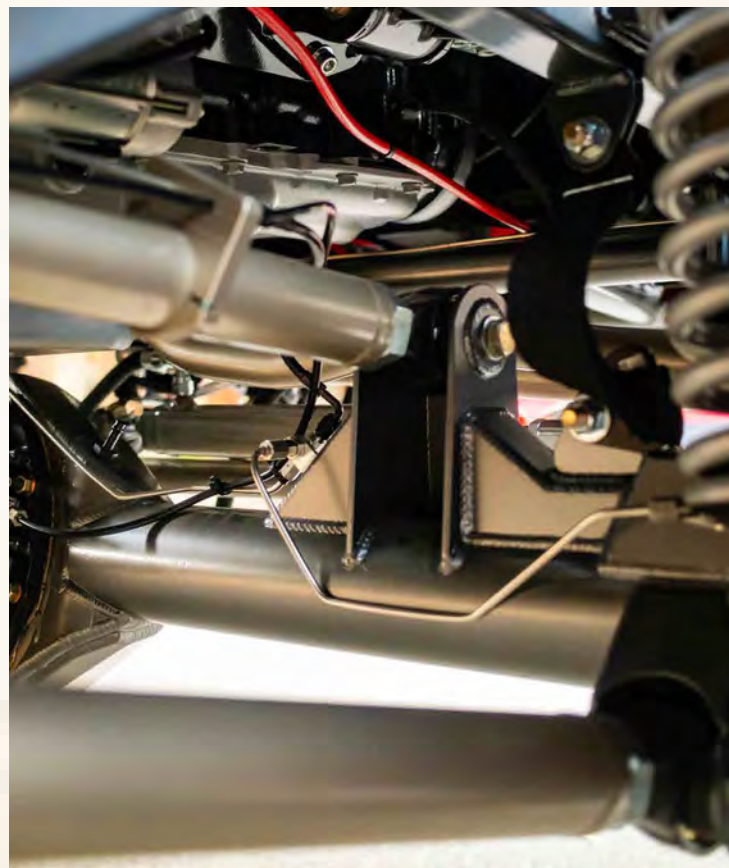
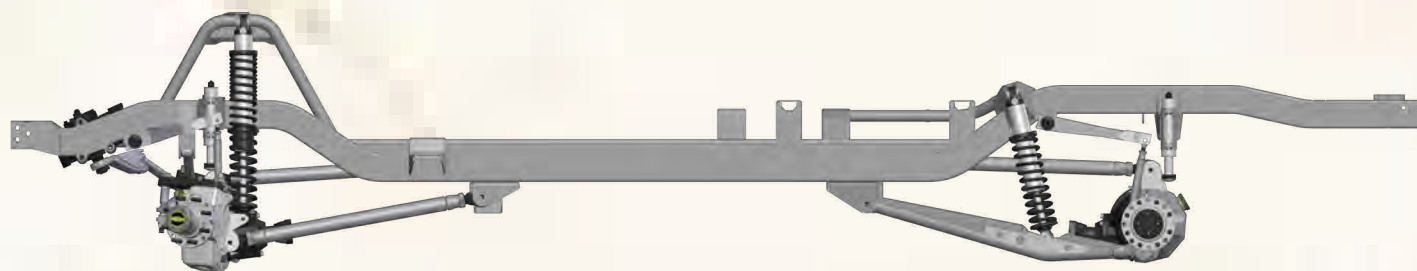
Frame rails offer a 3/16" wall with lateral braces placed using FEA for unparalleled torsional rigidity.

- **Optional Stainless Steel Brake & Fuel Lines**



1973-87 Chevrolet/GMC pickups 1973-91 Blazers

Blending the articulate durability of rock crawlers with the optimized traction of high-speed pre-runners, the street manners of AME's ultimate offroad chassis is right at home in the backwoods or on the open highway - and no cutting is required for installation. Using 3/16" wall, 2"x4" and 2"x6" tubing combined with 1/4" thick suspension brackets, AME's revolutionary new frame is a rock solid foundation for extreme terrain with the street manners to earn it the Morrison name.





Optimized Traction ■ Extreme Durability ■ Exceptional Steering ■ Superior Articulation ■ Unparalleled Maneuverability



- **Heavy Duty Steering Box**

New heavy duty steering box with massive 40-spline sector shaft.

- **Robust Double Shear Joints**

All steering joints in double-shear.

- **Axle Control Even in Extreme Environments**

Limit straps to control droop with a choice of economical foam bump stops or race-oriented pneumatic stops.

- **Unparalleled Performance on and off the Road**

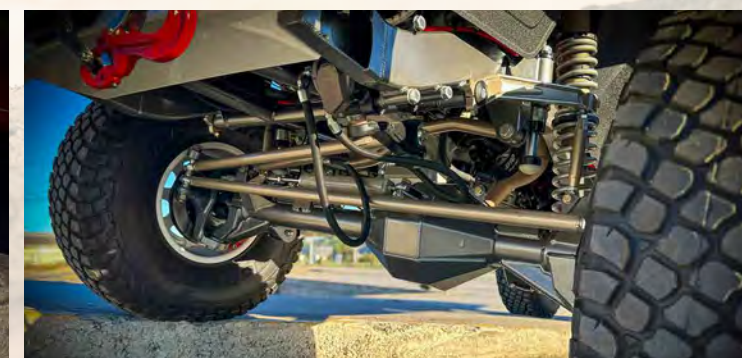
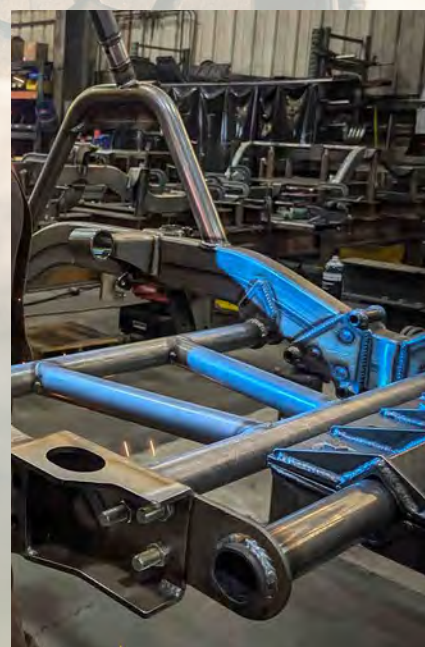
Splined sway bars with 3/4"-thick arms provide excellent road manners without taking away from off-road performance.

- **Optimized Axle Control**

Engineered 3-link design accurately controls the axle during braking, cornering, and acceleration while providing constant pinion angle control.

- **Heavy Duty Suspension Links**

All links made from 2" OD, 1/4" wall DOM tubing using 1-1/4" threaded Johnny Joints



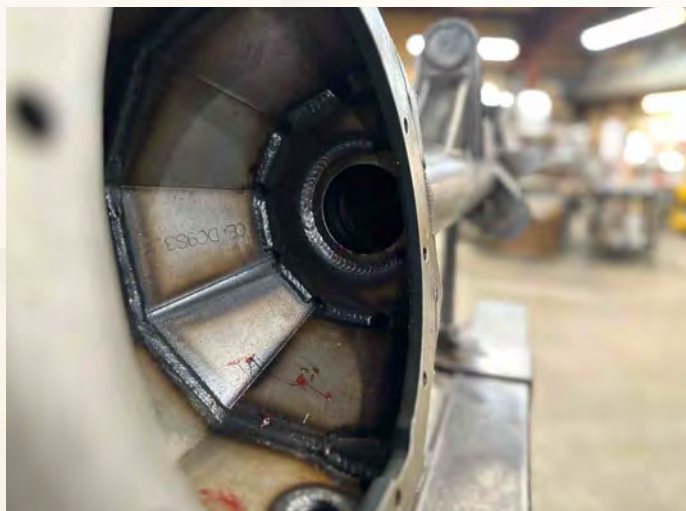
Engineered to provide extreme articulation along with superior street driving manners, our in-house designed and fabricated axle housings are controlled by massive DOM steel control arms with the largest Johnny Joint available. Known as a 3-link suspension, two lower links support the bottom side of the axle housing while a single offset upper link controls axle rotation while making enough room for a driver-side drop transfer case and large diameter driveshaft. A heavy wall 1-3/8" diameter panhard bar designed to hug the oil pan in full bump and precisely control lateral movement of the axle, resulting in crisp steering response. The panhard bar location is precisely matched to the steering system to provide predictable steering in all situations.



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Front Axle Housing



- **AME Exclusive Strength with Reduced Weight**
AME engineered and fabricated inner C's and outer knuckles are lighter and stronger than their Dana 60 counterparts.
- **Axle Control Even in Extreme Environments**
Utilizes a durable 9"-style differential to accept a wide variety of commonly available components and eliminates cast center sections that limit overall design.
- **Maximum Durability**
35-spline axle shafts with 1480 U-joints provide extreme durability.
- **Easy Maintenance**
OEM Dana 60 ball joints with 35-spline modern wheel hubs simplify maintenance and parts-sourcing.
- **Exceptional Strength**
Massive 3.5" axle tubes with 1/2" walls and strategically placed gussets provide industry-leading strength.
- **4x4 Engagement in Extreme Environments**
Includes Warn Premium 1-ton locking wheel hubs.
- **Wheel Compatibility**
Available with 5x5.5, 6x5.5, and 8x6.5 bolt patterns for wheels 17" or larger.



Rear Suspension Better Road Feel, More Comfortable Ride



To match the capabilities of the front suspension, while providing a better feel for the road and a comfortable ride our triangulated rear offers tremendous adjustability to help control a vehicle's handling on various surfaces and conditions. Utilizing "triangulated" upper bars, our rear suspension is engineered to keep the rear end centered under your rig to maintain stability and control even under hard acceleration, rock crawling and cornering.

- **Unparalleled Articulation & Axle Control**

Utilizes gusseted lower trailing arms with triangulated upper arms for maximum articulation and axle control.

- **Axle Control Even in Extreme Environments**

Limit straps to control droop with a choice of economical foam bump stops or race-oriented pneumatic stops.

- **Unparalleled Performance on and off the Road**

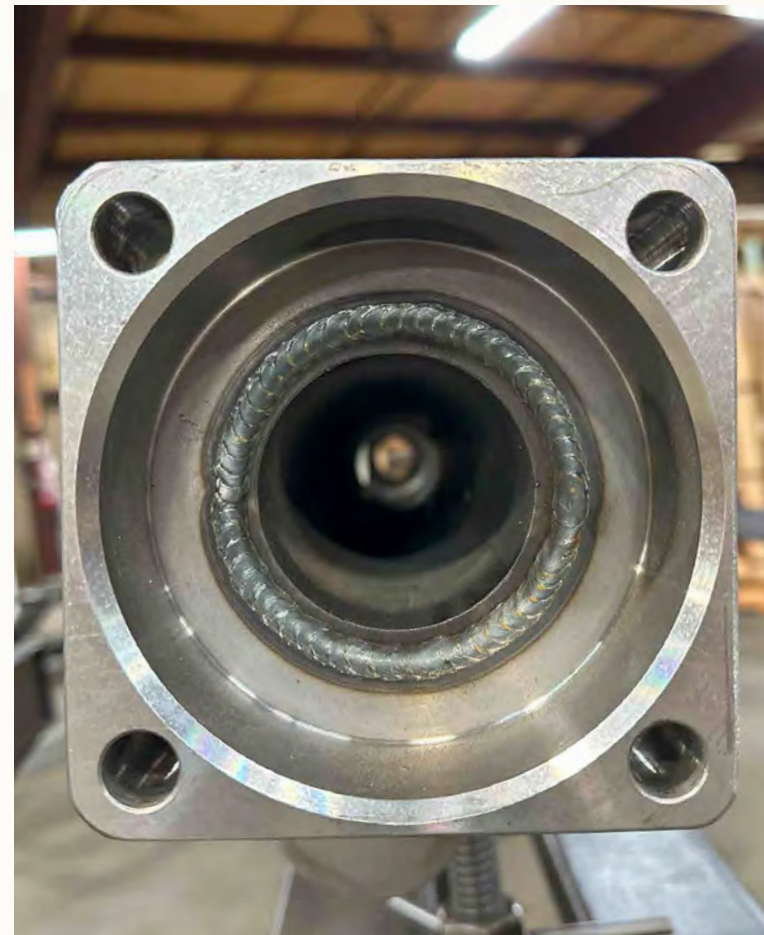
Splined sway bars with adjustable end links utilizing 1/2" Heim joints mounted in double shear provide excellent road manners without taking away from off-road performance.

- **Optimized Suspension Geometry**

Engineered suspension geometry provides excellent anti-squat, no brake hop, and well-controlled pinion angles.

- **Heavy Duty Suspension Links**

All links made from 2" OD, 1/4" wall DOM tubing using 1-1/4" threaded Johnny Joints



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Rear Axle Housing



- **Multiple Axle Options to Suit Your Application**

Available with semi-float axles or more robust full float design using the same 35 spline wheel hubs as the front axle.

- **Eliminates Bolted-On Suspension Mounts**

9" style differential eliminates cast center section that requires bolted-on suspension mounts.

- **Robust Axle Strength**

Full-length gusset further strengthens the 3.5" x 1/2" wall axle tubes.

- **American-Made Forged Bearing Pockets**

AME-engineered forged bearing pockets for both semi and full float designs.

- **Accommodates Popular Wheel Bolt Patters**

Available with 5x5.5, 6x5.5, and 8x6.5 bolt patterns for wheels 17" or larger.





Engineered to accommodate the latest Chevrolet powerhouses, our unique and highly effective Polyurethane engine mounts and plates provide superior engine control compared to factory type rubber mounts and excellent noise suppression.



- **Heavy Duty Polyurethane Bushings**

Heavy wall polyurethane bushings limit engine movement and reduce vibrations.

- **Engineered to Accommodate the Latest Chevrolet Powerhouses**

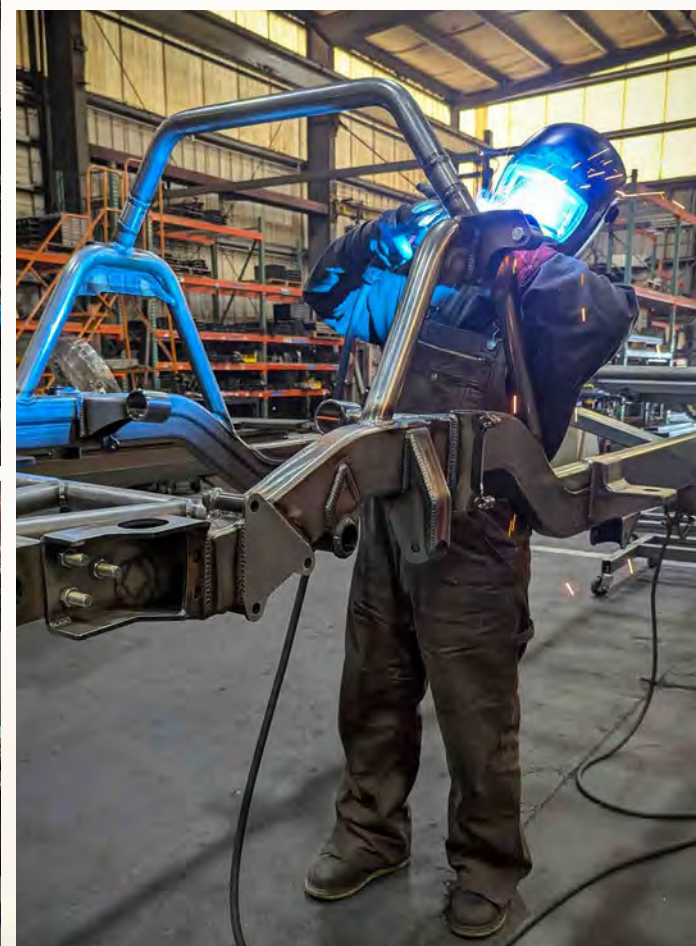
Engine-specific mounts accurately locate the engine and transmission for correct driveshaft angles.

- **Accommodates a Variety of Engines**

Available for small block, big block, LS and LT engines.

- **Recommended to Run with Popular Aftermarket Transfer Cases**

Atlas and NP241 transfer cases recommended.



AME OFFROAD



AME Offroad Accessories

Header Kits for AME Offroad Sport Chassis



Configuring an exhaust system is one of the most important parts of any build! We've developed, in collaboration with Ultimate Headers, a complete line of headers to cover all of our Offroad chassis applications with a variety of engine options for each. Featuring their stainless steel investment cast patented flanges, these flanges offer exceptional strength, are lighter than stock and have excellent clamping forces to facilitate leak-free hook-ups to the cylinder head. Given that chassis applications will vary, please contact our staff for details. Headers are also available with a ceramic-metallic coating. As a dealer for Ultimate Headers, AME can provide headers for other applications as well. Please call for specific pricing and availability.



Master Cylinder Line Kit

This kit provides you the parts you need to adapt your master cylinder to our brake line kit. Again, all components are stainless steel for long-term durability and good looks.



Housing Breather Kit

Eliminate housing leaks with this convenient kit. This catch can mounts above the housing. Excess gear oil goes to the tank, is vented and drains back after parking the car.

40403020 Housing Breather Vent for Hose
40403030 Housing Vent Tank



Brake Line & Fuel Kit

Everything you'll need to plumb the brake lines on your chassis. Stainless steel is used exclusively for the lines and fittings to assure you of total long-term reliability. Use in conjunction with our master cylinder line kit.



Steering Linkage

This convenient kit, which features Borgeson universal joints, contains the components you'll need to connect the power steering rack to the column. Kits are available in bare finish.



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- Front brakes use massive direct-mount 6-piston Aerolite calipers mounted on heavy duty 13.4"x1.25" 48-vane iron rotors
- Semi-float rear axles use a 4-piston Forged Narrow Superlite caliper clamping a 12.88"x1.1" iron rotor combined with a drum-in-hat parking brake.
- Full-float rear axles utilize a 4-piston Forged Superlite caliper with a 13.4"x1.25" iron rotor along with an electric parking brake caliper.



Stopping Power



Wilwood Master Cylinder

Aluminum tandem chamber Master Cylinder, die cast, premium alloy with black anodized billet lid. Designed for a wide range of custom manual or power brake applications.

- 26011190 Master Cylinder Combination Valve Line and Bracket Mount Kit
- 26085550 Hi Vol. Tandem 1" Bore Master Cylinder
- 26085552 Hi Vol. Tandem 1" Bore Master Cylinder
- 26094390 Hi Vol. Tandem 7/8" Bore Master Cylinder
- 26094392 Hi Vol. Tandem 7/8" Bore Master Cylinder



Hi-Temp Brake Fluid

Specially developed for racing. Has a minimum dry boiling point of 570° - substantially higher than DOT 3 or 4 requirements! Designed to lubricate and clean brake system internal parts. Has a very low viscosity, which facilitates easy bleeding of brakes and eliminates problems of fluid foaming from excessive pumping.

29006320 Wilwood Hi-Temp 570° Fluid, 12 Oz.



AME OFFROAD



The AME Difference



Superior Welding

The mark of a highly skilled welder is their ability to "lay dimes". At Art Morrison Enterprises our team strives for perfection, which is why so many professional builder's rely on an AME chassis as the foundation for their builds.



Dedicated Tooling

AME prides itself in developing some of the best tooling in the industry. With over 50 years of chassis-building experience, we know how to ensure each chassis is produced precisely and accurately. Every chassis is created in robust tooling weighing several thousand pounds.



In-House Machining

AME proudly supports local manufacturing. To ensure that our high standards are consistently upheld our talented team CNC machines as many components as possible in-house to eliminate unnecessary quality-control issues.



Proprietary Tubing

Made from a proprietary composition of exceptionally rigid steel, our 2"x4" and 2"x6" frame rails all feature a 1/8" or 3/16" wall thickness which provides extraordinary stiffness. These rigid rectangular rails improve ride quality by minimizing body flex while also reducing squeaks and rattles.



Modern Suspension

Using advanced suspension analysis software, AME engineers its proprietary suspension design that combines corner-carving grip with cross-country comfort. To ensure this design becomes reality, AME uses CNC machined tooling and customized components in every step of the manufacturing process.



No-Compromise Engineering

Clean-sheet design backed by 25+ years of suspension experience by professional engineers.



Superior Performance

Optimized suspension geometry coupled with modern steering components.



Advancing Innovation

AME pioneered the bolt-on chassis concept, Multilink IRS, and custom steering hydraulic valving.



Optimal Ride Quality and Control

Dual-rate 3" ID springs, adjustable splined sway bars, limit straps and bump stops combine off-road capability with street manners.



Proprietary American-Made Steel

AME's own rectangular tube steel provides high strength with exceptional quality resulting in consistent wall thickness throughout all areas of the bend.



Harnessing New Technology, Always Evolving

Utilizing the latest in CMM's, laser scanners, CNC probes and engineering testing equipment.



Unparalleled Craftsmanship

Every weld, bracket and component is held to the highest standard for appearance and quality.



Customer Focused Culture

AME's customer service representatives take great pride in being known for developing positive, long-term relationships with customers all over the world.



Proven Investment in Value

The sales data from leading auction houses illustrate that AME-equipped hot rods routinely bring in record-setting prices.



Easy to Install

"I will say for someone who is not in the industry, with limited experience and skills, it was easy to be successful using Morrison chassis."

- C. Smith, AME Customer



AME OFFROAD

Longstanding Relationships

People and Relationships Make This Amazing Industry What it is -
Uniquely Driven by Innovation and Creativity



Our wealth of experience stretches over 50 years.
Since the very beginning, our dedicated team has been devoted to realizing our customer's dreams.

We love what we do. We love our work. We love our industry. We love the relationships we have built and maintained.
Every order, every square inch of every product we produce is realized through this dedication to quality, community and craftsmanship.

We transfer our experience, enthusiasm, attention to detail, talent and passion to your dream - helping your dreams become reality from the foundation up.



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Technical Details On the Trail or on the Highway

Frame

- American made 2x4 & 2x6 3/16" mandrel bent tubing with consistent corner radii and wall thickness in every bent location to reduce stress risers.
- All suspension mount locations use 1/4" formed brackets.
- Strategically placed crossmembers and gussets to increase torsional strength.
- 100% sealed frame rails eliminate water intrusion.
- Every weld is prepped with proper gaps and fillets to ensure penetration.
- Front coilover towers feature a removable lateral crossmember for strength and ease of assembly.
- Braced steering box area for precise steering feel.



Steering System

- Heavy duty 40-spline steering box designed for late model 1-ton diesel trucks.
- Heavy wall 1-3/8" DOM steering links.
- High-steer crossover design.
- All joint locations mounted in double-shear with 3/4" fasteners.
- Knuckles feature billet steel keyed steering arms with gusseted lower double-shear arm.
- Fox Steering stabilizer.
- Approximately 35 degrees of steering angle.
- Optimized engineered geometry to ensure predictable steering control off road or on the highway.

Front Suspension

- 3-Link design.
- Links manufactured with 2"x1/4" DOM tubing using 1-1/4" thread Johnny Joints.
- Splined sway bar with adjustable end links featuring 1/2" rod ends.
- Heavy-wall 1-3/8" diameter panhard bar with polyurethane bushings and adjustable Johnny Joint.
- Fox Race Emulsion coilovers with dual-rate Eibach springs, FOX DSE adjustable coilovers optional.
- Limit straps combined with OEM-style foam bump stops or optional Fox pneumatic bump stops.
- Approximately 12" overall travel.



Front Axle

- 3.5"x1/2"-wall DOM axle tubes.
- Fabricated outer knuckles and inner C's.
- Fabricated center section housing.
- 1/4"-thick suspension brackets.
- 35 spline inner and outer axles.
- 1480 U-Joints.
- Warn Premium locking hubs.
- 35 spline bolt-on wheel bearing.
- Spicer Dana 60 ball joints.
- Adjustable camber & caster.
- 70" wheel mount width.
- 5x5.5, 6x5.5 and 8x6.5 wheel bolt patterns available.



Rear Suspension

- Triangulated 4-link with trailing arms.
- Links manufactured with 2"x1/4" DOM tubing using 1-1/4" thread Johnny Joints.
- Full length gusset on trailing arms.
- Splined sway bar with adjustable end links featuring 1/2" rod ends.
- Fox Race Emulsion coilovers with Eibach springs, FOX DSE adjustable coilovers optional.
- Limit straps combined with OEM-style foam bump stops or optional Fox pneumatic bump stops.
- Approximately 13" overall travel.



Rear Axle

- Available in semi-float or full-float designs.
- 3.5"x1/2"-wall DOM axle tubes.
- Full-length axle tube gusset.
- Forged bearing pockets.
- Fabricated center section housing;
- 1/4"-thick suspension brackets.
- 35 spline inner and outer axles.
- Large oil fill port with lower drain.
- 70" wheel mount width.
- 5x5.5, 6x5.5 and 8x6.5 wheel bolt patterns available.



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Pricing Specifications

Semi-Float Chassis with Suspension Includes:

| | | |
|---|-----------|------------------|
| Bare Chassis | \$ | 16,610.00 |
| Engine & Transmission Mounts, Crossmembers | \$ | 1,040.00 |
| Front Axle Assembly, 5x5.5 Wheel Bolt Pattern | \$ | 13,770.00 |
| Rear Axle Assembly, Semi-Float, 5x5.5 Wheel Bolt Pattern | \$ | 4,435.00 |
| Suspension & Steering Linkage | \$ | 5,820.00 |
| New HD Steering Box, Steering Stabilizer & Filter | \$ | 995.00 |
| Front & Rear Splined Sway Bar Kits | \$ | 3,100.00 |
| Fox 2.5 Factory Race Emulsion Coilovers & Eibach Coil Springs | \$ | 3,740.00 |
| Bump Stops & Limit Straps | \$ | 1,000.00 |
| Black Powder Coated - Links, Brackets, Axle Housings, Accessories | \$ | 2,000.00 |
| Wilwood 13" Aero6-DM Front Brakes | \$ | 2,275.00 |
| Wilwood 13" FNSL4R Rear Brakes | \$ | 1,865.00 |
| Promotional Discount | \$ | (1,500.00) |
| TOTAL | \$ | 55,150.00 |

COMPLETE Includes:

| | | |
|---|-----------|------------------|
| Chassis with Suspension | \$ | 55,150.00 |
| Currie 9" Center Sections, TruTrac, 35 Spline & Mounting Hardware | \$ | 4,590.00 |
| TOTAL | \$ | 59,740.00 |

Upgrades & Options:

| | | |
|---|----|----------|
| Fox 2.5 Factory Race DSC Coilover Upgrade | \$ | 1,460.00 |
| Wilwood Master Cylinder | \$ | 240.00 |
| Stainless Steel Brake & Fuel Line Kit | \$ | 1,400.00 |
| LS-series Ultimate Headers 1-7/8" Stainless Steel Header (From) | \$ | 1,510.00 |
| LT-series Ultimate Headers 1-7/8" Stainless Steel Header (From) | \$ | 1,510.00 |
| Steering U-Joint & Shaft Kit (Bare Steel) | \$ | 295.00 |
| Axle Housing Overflow Vent Tank & Hardware Kit | \$ | 150.00 |
| Emergency Brake Cable Kit - Black | \$ | 255.00 |
| Emergency Brake Cable Kit - Stainless Steel | \$ | 370.00 |

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Full-Float Chassis with Suspension Includes:

| | | |
|---|-----------|------------------|
| Bare Chassis | \$ | 16,610.00 |
| Engine & Transmission Mounts, Crossmembers | \$ | 1,040.00 |
| Front Axle Assembly, 8x6.5 Wheel Bolt Pattern | \$ | 13,770.00 |
| Rear Axle Assembly, Full-Float, 8x6.5 Wheel Bolt Pattern | \$ | 7,555.00 |
| Suspension & Steering Linkage | \$ | 5,820.00 |
| New HD Steering Box, Steering Stabilizer & Filter | \$ | 995.00 |
| Front & Rear Splined Sway Bar Kits | \$ | 3,100.00 |
| Fox 2.5 Factory Race Emulsion Coilovers & Eibach Coil Springs | \$ | 3,740.00 |
| Fox Bump Stops & Limit Straps | \$ | 2,280.00 |
| Black Powder Coated - Links, Brackets, Axle Housings, Accessories | \$ | 2,000.00 |
| Wilwood 13" Aero6-DM Front Brakes | \$ | 2,275.00 |
| Wilwood 13" FLSI4 Rear Brakes, Electric Parking Brake | \$ | 2,580.00 |
| Promotional Discount | \$ | (2,000.00) |
| TOTAL | \$ | 59,765.00 |

COMPLETE Includes:

| | | |
|---|-----------|------------------|
| Chassis with Suspension | \$ | 59,765.00 |
| Currie 9" Center Sections, TruTrac, 35 Spline & Mounting Hardware | \$ | 4,590.00 |
| TOTAL | \$ | 64,355.00 |

Upgrades & Options:

| | | |
|---|----|----------|
| Fox 2.5 Factory Race DSC Coilover Upgrade | \$ | 1,460.00 |
| Wilwood Master Cylinder | \$ | 240.00 |
| Stainless Steel Brake & Fuel Line Kit | \$ | 1,400.00 |
| LS-series Ultimate Headers 1-7/8" Stainless Steel Header (From) | \$ | 1,510.00 |
| LT-series Ultimate Headers 1-7/8" Stainless Steel Header (From) | \$ | 1,510.00 |
| Steering U-Joint & Shaft Kit (Bare Steel) | \$ | 295.00 |
| Axle Housing Overflow Vent Tank & Hardware Kit | \$ | 150.00 |

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