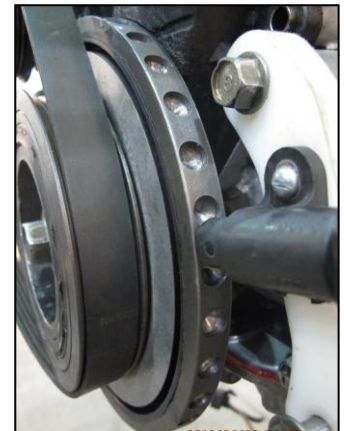


# WRECK RACING

Georgia Tech

## Competition MG Midget Specifications

- **General Specifications**
  - Chassis: 1969 MG Midget
  - Wet curb weight: 1,900 lbs
  - Fuel: 93 octane
  - Power: >300 whp
  - Total cost: <\$2,013
- **Engine**
  - Toyota/Lexus 2JZ-GE
  - 3.0L DOHC I6
  - 10:1 compression ratio
  - 6800-rpm redline
- **Turbocharger**
  - Garrett GTA35
  - 12 psi boost
  - Custom individual-runner exhaust manifold
  - Custom one-shot air-to-(ice)water intercooler
  - Saab 9-3 wastegate actuator
- **Engine Management**
  - MegaSquirt MS 1 V3.0 PCB
  - PWM boost control
  - Dyno-tuned fuel and ignition maps
- **Ignition System**
  - Ford EDIS-6 controller, coil packs, and VR sensor
  - Custom-modified crank pulley trigger wheel
  - Timing controlled by MS ECU
- **Transmission**
  - GM TH-350C
  - 3-speed automatic
  - Modified for manual shift control
  - B&M Ratchet Shifter
  - Custom transmission adapter
  - Custom torque converter adapter
  - Custom 10.5" hybrid driveshaft
- **Rear End**
  - Ford 8.8 Solid Axle
  - 3.73:1 final drive, other ratios available
  - OE clutch-type LSD
  - Custom-shortened axle tube
  - Custom wheel adapters



- **Fuel System**
  - Twin Airtex E2000-equivalent fuel pumps
  - Mk. III Toyota Supra 440 cc/min low-Z fuel injectors
  - Modified MG fuel tank
- **Electrical System**
  - Custom chassis and engine harness (all repurposed wire)
  - Custom switch panel
  - Stop-dead kill switch
  - All circuits fused and relay-activated
- **Front Suspension**
  - Custom front frame rails
  - NA Miata OEM crossmember with A-arms, spindles, bushings, tie-rods, etc.
  - Custom pushrod-rocker arm suspension
  - Suzuki Hayabusa coilovers
  - Adjustable spring perches
  - Separate rebound and compression damping adjustment
- **Rear Suspension**
  - Custom, adjustable 3-link geometry w/ Panhard
  - Adjustable anti-squat
  - Custom pushrod-rocker arm suspension
  - Suzuki Hayabusa coilovers
  - Adjustable spring perches
  - Separate rebound and compression damping adjustment
- **Brakes**
  - 1.6 Miata front calipers and rotors
  - Ford Explorer rear calipers and rotors
  - Custom dual master cylinder setup
  - Front MC: Mazda Miata clutch master cylinder
  - Rear MC: Honda Civic brake master cylinder
  - Custom, adjustable brake-pedal bias bar
- **Wheels/Tires**
  - Front Wheels: Aero steel racing wheels 13x10, 3.5" backspacing, 16 lbs ea.
  - Rear Wheels: Ford Bronco wheels 15x10, 4" backspacing, 22 lbs ea.
  - Front Tires: Hoosier A6 255/40 R13
  - Rear Tires: Hoosier A6 275/35 R15
- **Roll Cage**
  - Designed in-house, professionally built
  - Mild steel construction
  - 8 chassis mounting points
  - SCCA/NHRA/NASA legal
- **Safety**
  - FIA-rated driver's harness
  - SFI 45.1 rollcage padding
  - Fire extinguisher mounted to trans. tunnel
  - Custom trans. tunnel and driveshaft surround
  - Kevlar transmission blanket

