

WRECK RACING

Georgia Tech

Competition Mazda Miata Specifications

- **General Specifications**
 - Chassis: 1992 Mazda Miata
 - Wet curb weight: 2,200 lbs
 - Fuel: E85 Ethanol
 - Power: 300 whp
 - Total cost <\$5,000
- **Engine**
 - Toyota/Lexus 1UZ-FE
 - 4.0L, all aluminum, DOHC V8
 - Custom high-capacity oil pan
 - 7500-rpm redline
- **Supercharger**
 - Eaton M90 roots-type unit
 - Twin liquid-coupled charge coolers
 - Custom, short-runner intake manifold
 - Custom overdriven S/C snout pulley
- **Engine Management**
 - MegaSquirt MS 1 V3.0 PCB
 - Innovate LC-1 Wideband
 - Dyno-tuned fuel map
- **Ignition System**
 - Ford EDIS-8 controller, coil packs, and VR sensor
 - Timing controlled by MS ECU
- **Exhaust**
 - Custom-fabricated, tubular-steel, 4-2-1 headers
 - Custom sidepipes with removable baffling
- **Transmission**
 - Toyota R154 (Turbo Supra OEM application)
 - 5-speed manual
 - Custom transmission adapter and flywheel
 - Competition clutch and pressure plate
 - Hydraulic throw-out bearing
- **Rear End**
 - Ford 8.8 IRS carrier (Ford Thunderbird OEM application)
 - 4.10:1 ring and pinion, other ratios available
 - 6 clutch LSD unit
 - FFR Cobra replica axle shafts
 - Lincoln CV joints
 - Modified Ford hubs (mate to OEM Miata wheel bearings/uprights)



- **Fuel System**
 - Walbro 255 L/hr fuel pump
 - FC RX-7 460 cc/min high-impedance fuel injectors
 - Remote fuel pressure gauge
 - Aftermarket fuel filter
- **Electrical System**
 - Custom chassis and engine harnesses
 - Stop-dead kill switch
 - All circuits fused and relay-activated
- **Suspension**
 - OEM A-arms, spindles, bushings, tie-rods, etc.
 - Flyin' Miata V-Maxx track coilovers (504 lb/in front, 336 lb/in rear)
 - Adjustable-height spring perches
 - Racing Beat front sway bar and end-links
 - Flyin' Miata adjustable rear sway bar
- **Cooling System**
 - Custom-made twin core, all aluminum radiator
 - Remote thermostat housing
 - Dual electric cooling fans
- **Brakes**
 - 1.6 Miata calipers front and rear
 - Hawk DTC-60 race compound pads front and rear
 - Brembo OE-replacement rotors front and rear
 - Custom front brake ducting
 - Wilwood adjustable proportioning valve
 - Willwood 600 Plus synthetic racing brake fluid
- **Wheels/Tires**
 - Aero steel racing wheels 13x10, 3.5" backspacing, 16 lbs ea.
 - Time trial tires: Hoosier A6 255/40 R13
- **Roll Cage**
 - Chromoly construction (professionally built)
 - 6 chassis mounting points
 - Bolt-in and removable
 - NASA/SCCA legal
- **Aero**
 - Custom fiberglass/aluminum rear wing
 - Custom aluminum front splitter
- **Safety**
 - FIA-rated Sparco containment seat
 - Fire suppression system
 - FIA rated driver's harness
 - SFI rollcage padding

