# Mugen MBX8

Setup: My modified setup · Charles Dekeado (Magen Seiki) · Nov 22, 2020

so dialed
Open/save in RC Setup App →

Scan to open in the app

## EVENT

| | |
|---|---|
| Event | Test day |

## TRACK

| | |
|---|---|
| Track | ARCOR |
| Type | Outdoor hard-packed |
| Grip / moisture | Medium / Dusty |
| Surface / layout | Bumpy / Medium |

## FRONT SUSPENSION

| | |
|---|---|
| Anti-roll bar | 2.3mm |
| Camber | Kit degrees |
| Droop (shock length) | 105 mm |
| FF (A) mount inserts | Top |
| FR (B) mount inserts | Top |
| Hub carrier | 0 trail |
| **LOWER ARM** | |
| Pillow ball spacers | 1.0 mm |
| Pillow balls | Kit |
| Stiffeners | Plastic |
| Ride height | 25 mm |
| **SHOCKS** | |
| Arm mounting hole | B - Outside |
| Tower mounting hole | 1 - Inside |
| Steering block arm | -3mm |
| Steering link: inner stud location | 3 |
| Steering plate - upper | Plastic |
| Toe | 29mm link length degrees |
| Tower | Aluminum |
| Track: wheel hexes | +1mm |
| Upper arm spacers (caster) | Front 2mm / rear 2mm |
| **UPPER ARM** | |
| Mount inserts - front | Middle |
| Mount inserts - rear | Middle |
| Pillow ball spacers | 1.0 mm |
| Pillow balls | Kit |
| Wheelbase: lower arm spacers | 0 mm |

**NOTES** Graphite Coated pillow balls
Swing test with shocks removed after every day of running.

## BODY & CHASSIS

| | |
|---|---|
| Body | Kit |
| Chassis brace - front | Short |
| Chassis brace - rear | Kit |
| Engine mount | M2C quick change |
| Rear wing | Kit |
| Rear wing height | 3 |
| Rear wing mount | +15mm |
| Rear wing position | Front |
| Weights | 20g rear |

**NOTES** I Always run the white kit molded wing, typically in the forward position.

## REAR SUSPENSION

| | |
|---|---|
| Anti-roll bar | 2.6mm |
| Arm stiffeners | Plastic |
| Axle height: hub pin hole | High (low pin) |
| Camber | 19.5mm rear links outside hole degrees |
| **CAMBER LINK** | |
| Inner stud location | 3 - Inside top |
| Outer stud location | C - Outside |
| Droop (shock length) | 118 mm |
| Hubs | Plastic |
| RF (C) mount inserts | Middle |
| RF (C) mounts | 0mm |
| Ride height | 26 mm |
| RR (D) mount inserts | Bottom middle |
| **SHOCKS** | |
| Arm mounting hole | B - Outside |
| Arm pivot ball orientation | Front |
| Tower mounting hole | 3 |
| Toe | -2.5 degrees |
| Tower | Aluminum |
| Track: wheel hexes | +1mm |
| **WHEELBASE** | |
| Arm spacers | 0 mm |
| Hub spacers | Front 2.5mm / rear 2.5mm |

## ENGINE

| | |
|---|---|
| Engine brand | OS |
| Engine model | AD1 |
| Fuel | Flashpoint |
| Glow plug | P3 gold |
| Pipe / header | Flashpoint combo |

**NOTES** 7mm carb insert rubber band throttle return

## TIRES

| | FRONT | REAR |
|---|---|---|
| Tire brand / type | AKA Impact | AKA Impact |
| Tire compound | SLW | SLW |
| Tire insert | AKA red insert with rib cut out(de-rib) | AKA red with rib cut out(de-rib) |
| Wheel brand / type | AKA (white) | AKA (white) |

**NOTES** With 100% of the inner rib removed you achieve a “flatter” contact patch and they feel like second run/broke in insert right away. Taller pin tires tend to wear more even, and tight lugs get into the track better.

## SHOCKS

| | FRONT | REAR |
|---|---|---|
| Oil weight | 500 cst | 425 CST |
| Pistons | 6 x 1.35 Bypass1 clear valve(un-drilled) | 6 x 1.35 Bypass1 clear valve(undrilled |
| Rebound | 0 % | 0 % |
| Springs | 70mm 1.6mm x 9.25T | 86mm 1.6mm x 10.75T |
| Stroke | 34 mm | 41 mm |
| Shock oil brand | Flash Point | |

**NOTES** Clear Mugen Bladder

## DIFFERENTIALS

| | FRONT | REAR |
|---|---|---|
| Diff fluid | 7,000 cst | 3,000 cst |
| Diff ring/pinion | 44/13 teeth | 42/12 teeth |
| Center diff fluid | 4,000 cst | |
| Center diff type | Kit | |

**NOTES** Underdrive rear only, feels to me as the front pulls the car more, further calming the rear end on power.

## DRIVETRAIN

| | |
|---|---|
| Brake bias | As close to 50/50 as possible, I don’t mind having slightly more rear brake to help slide the car(MX days) |
| Center shafts | Universal (#E2228, #E2229) |
| Clutch shoes & springs | Buku 3 shoe clutch(custom setting) |
| Driveshafts - front | CVD |
| Driveshafts - rear | CVD |
| Pinion | 13t Mugen Vented Bell(Boca Clutch bearings) teeth |
| Spur | 47 teeth |

## ELECTRONICS

| | |
|---|---|
| Radio brand | **Spektrum RC** |
| Radio EPA steering | **123 %** |
| Radio EPA throttle | **73 %** |
| Radio model | **DX6R** |
| Receiver battery | **Flashpoint 2500** |
| Receiver brand | **Spektrum** |
| Receiver model | **SR2010** |
| Steering servo brand | **Xpert** |
| Steering servo model | **R2** |
| Throttle servo brand | **Xpert** |
| Throttle servo model | **R2** |
| Transponder ID | **8245068** |