

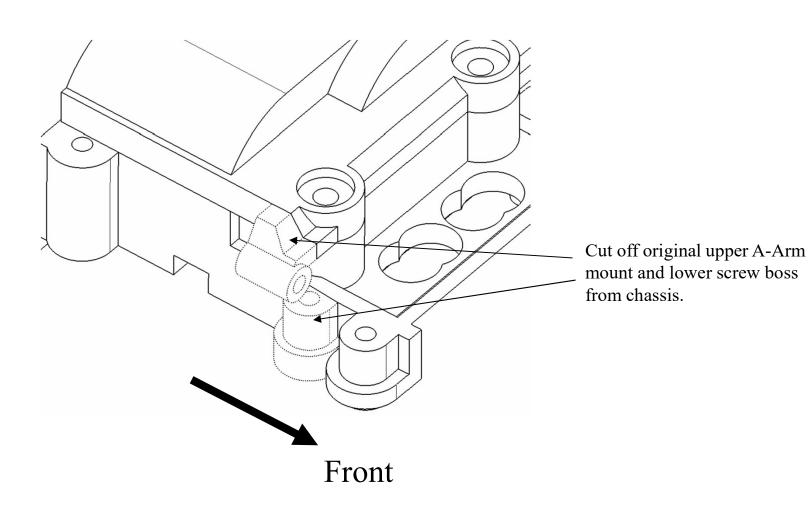
MR3080

V4 MR03 PNR2.5W Front A-Arm Suspension Instructions

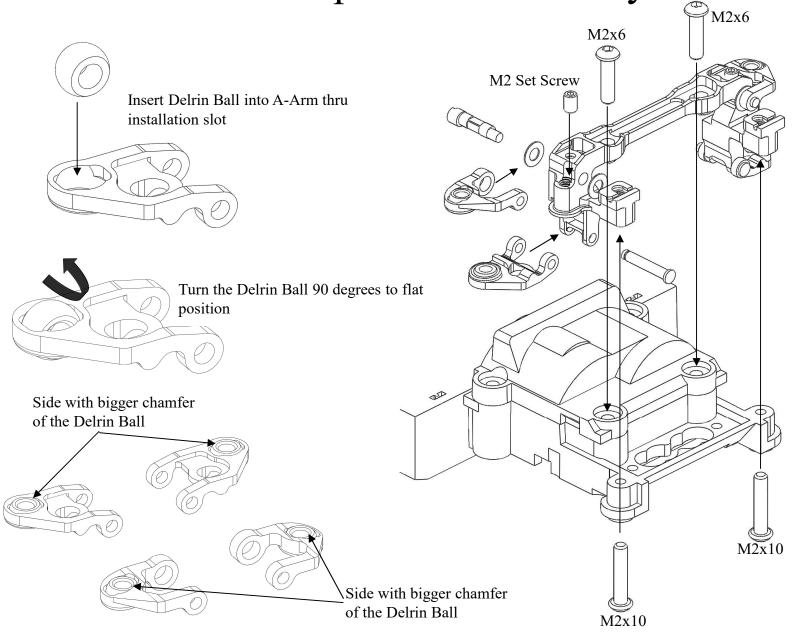
V4 MR03 PNR2.5W A-Arm Front Suspension

- Unequal length A-Arm suspension for MR-03 and PNW2.5W chassis.
 - Modeled after full scale performance car suspension for realism.
 - Double A-Arm suspension gives good control of suspension geometry and roll center during travel.
 - Camber change with suspension compression during cornering keeps wheels near vertical for maximum tire contact with road.
 Allows for precise cornering and maximum road holding.
- Direct suspension swap
 - Same width as stock.
 - Ride height adjustment with two position off-set axle base to knuckle mounting system. Allow for stock height or 0.4mm drop.
 - Steering axis moved outward .5mm for lower steering scrub and faster steering. Overall axel width still remain the same to fit Auto Scale bodies.
 - Optional #MR3080A3 Oversize 3mm Axle for use with #600126 3x6x2mm wheel ball bearing.
- No bump steer throughout suspension travel.
- Suspension movement use ball joints instead of sliding knuckle. Eliminates stiction associated with sliding pin especially with high offset wheels.
 - Low stiction results in consistent cornering.
- Machined Delrin ball socket instead of snap fit. Joints will not pop out even during hard collision.
- Adjustable camber from 0-3° degrees with 1.3°/mm of camber gain.
- Adjustable caster from 0-1.8° degrees
- 4 position adjustable upper A-Arm pivot
 - Changes camber gain, static camber and roll center
 - Quick adjustment with set screw
- Includes 3 tie-rods: 0° , +.5° and +1°
- Quick down stop adjustment with turn of a nut
- Benefits of the sophisticated suspension system are precise cornering and maximum road holding which adds to mini-z driving pleasure

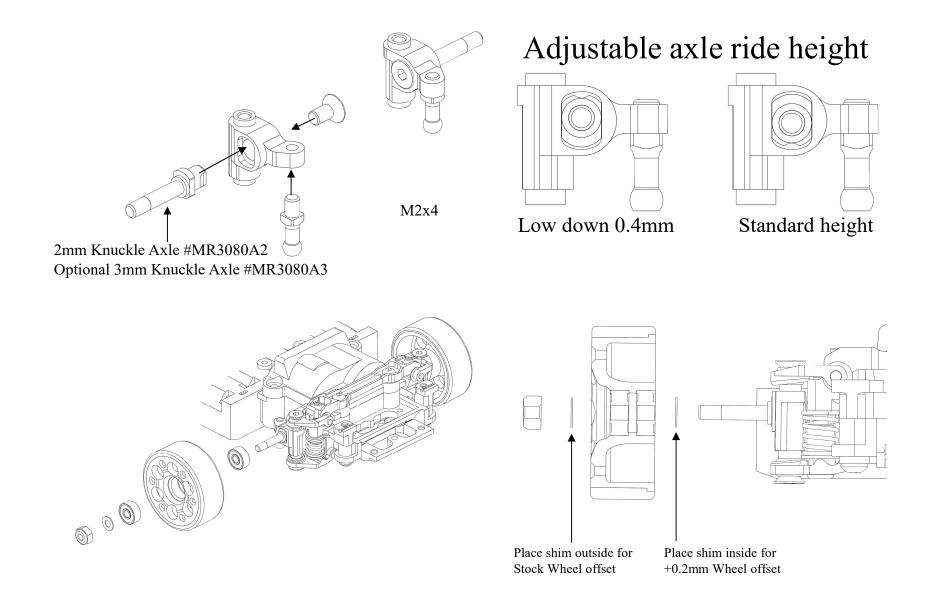
Chassis Preparation



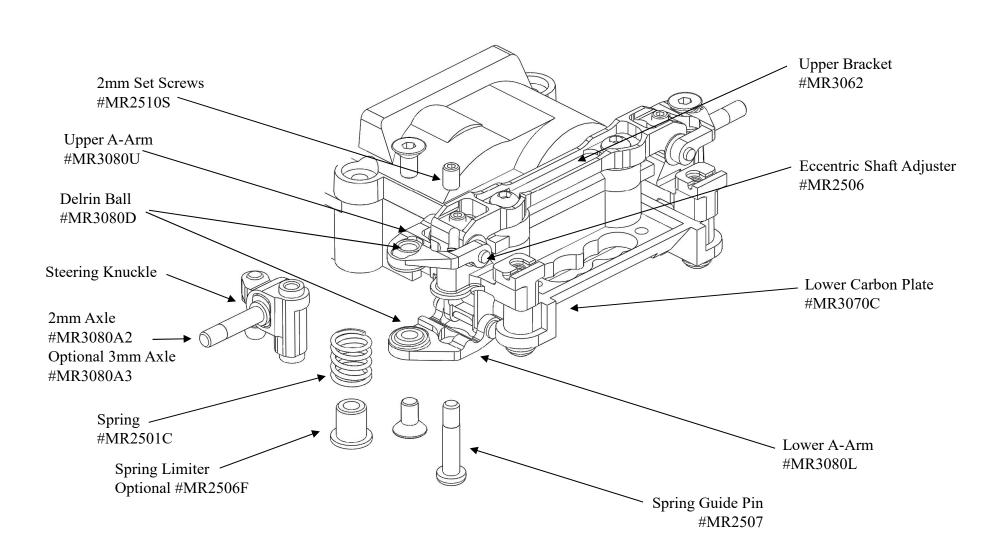
A-Arm Suspension Assembly 1



A-Arm Suspension Assembly 2



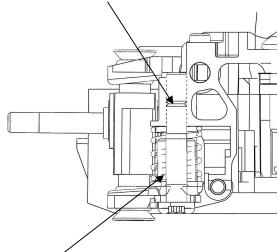
A-Arm Suspension Assembly 3



Suspension Adjustment

Droop Adjustment

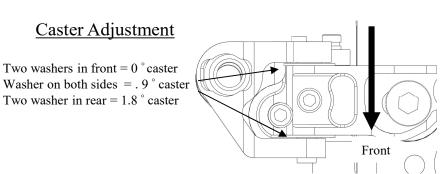
Tighten set screw after droop adjustment



When bottom of A-Arm is horizontal with ground, suspension is at stock ride height. Each additional ¼ turn of spring guide screw drops ride height by .2mm, or 1 washer equivalent of suspension drop.

Tie Rod Adjustment

Due to wide track feature of the A-Arm suspension, wider tie-rods are necessary to compensate for geometry. Included are 0° , $+.5^{\circ}$ and $+1^{\circ}$ toe out tie rods. Optional $+1.5^{\circ}$ #MR3050T, $+2.0^{\circ}$ #MR3050Q If a stock MR03 tie rod is used, a $+3.5^{\circ}$ toe out will be equivalent to 0° on the A-Arm suspension.



Camber Gain and Camber Adjustment

