

MA010 AWD A-Arm Front Suspension Instructions

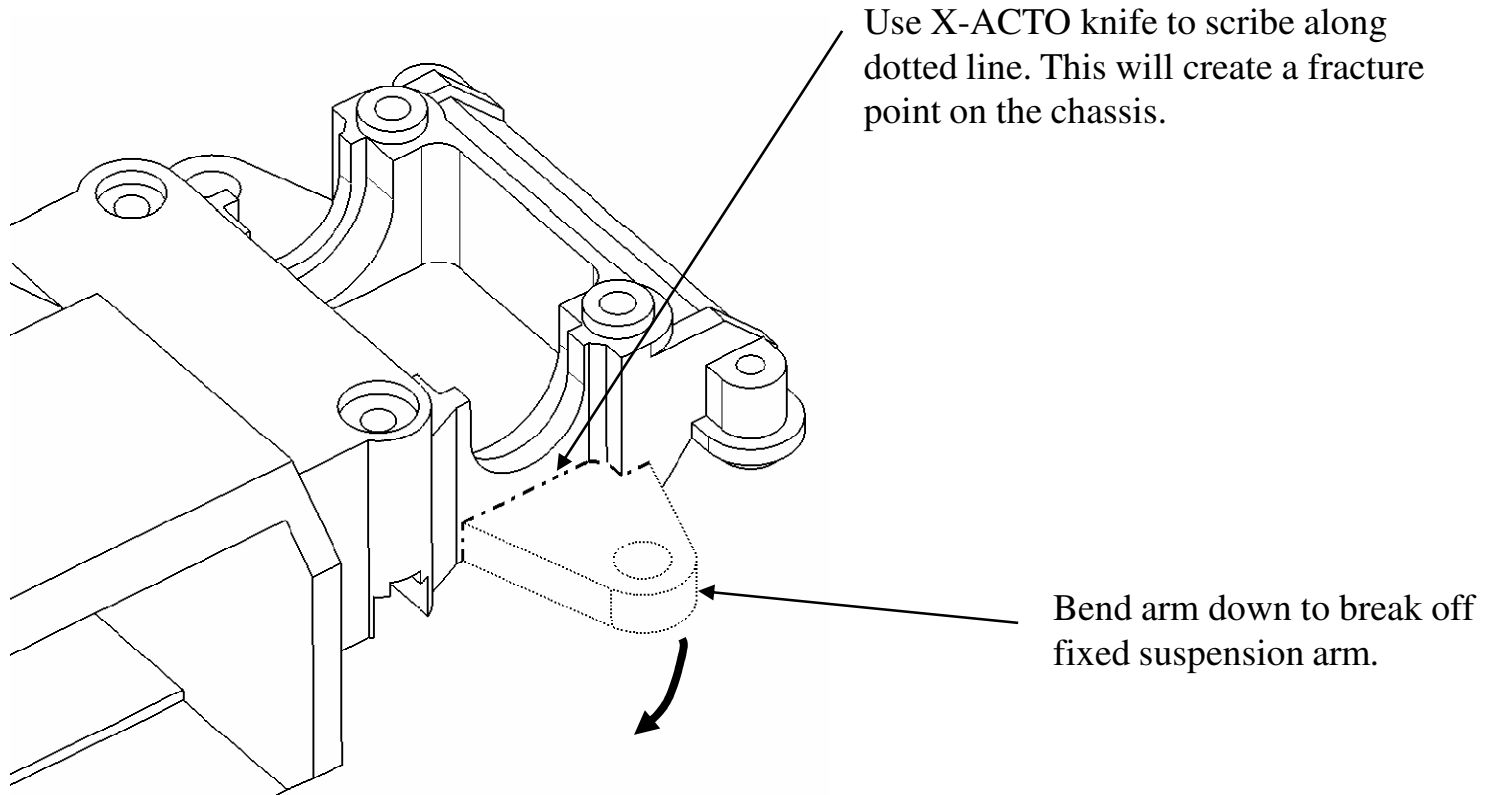
Parts Number MA0150

Rev. -1.0

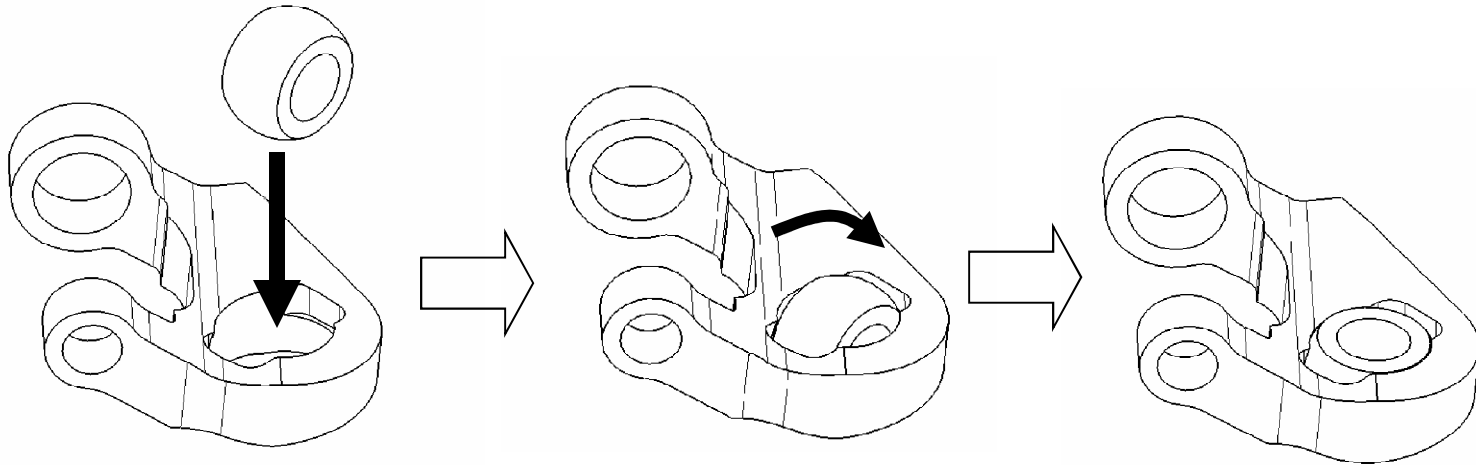
MA010 A-Arm Front Suspension

- Unequal length A-arm suspension for MA010 chassis.
 - Modeled after full scale performance car suspension for realism.
 - Double A-arm suspension gives good control of suspension geometry during travel. Induce camber changes during cornering.
 - Camber change keeps wheels near vertical for maximum tire contact with road. Allows for precise cornering and maximum road holding.
- Direct suspension swap
 - Front end width remains the same
 - Low profile suspension will work with low bodies like Ferrari Enzo that does not currently work in the AWD chassis without cutting.
 - Ride height remains the same as stock
- Suspension movement use ball joints and pivot pins instead of sliding knuckle. Eliminates stiction associated with sliding pin especially with high offset wheels.
 - Low stiction results in consistent cornering.
- Rigid ball joints instead of snap fit. Joints will not pop out even during hard collision.
- No bump steer.
- Use current MR02 or MA010 spring.
- Adjustable camber from 0-1.3° degrees with additional 1.3°/mm of camber gain.
- Adjustable caster from 0-2.3° degrees
- 4 position adjustable upper A-arm pivot
 - Changes camber gain, static camber and roll center
 - Quick adjustment with set screw
- 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



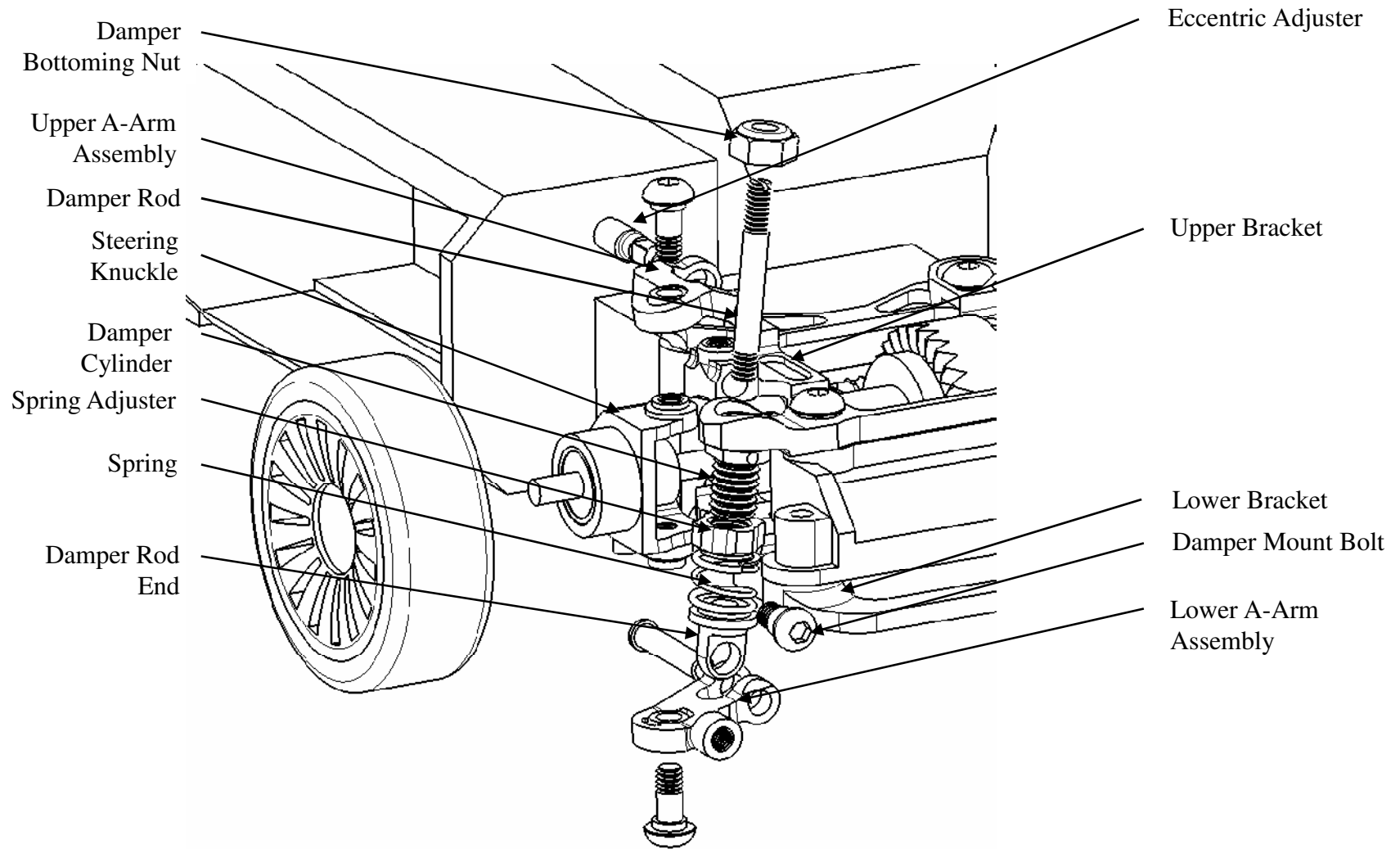
A-Arm Assembly



Note:

Use Mother's Polish or similar polishing compound if ball is tight in A-arm.

A-Arm Suspension Components

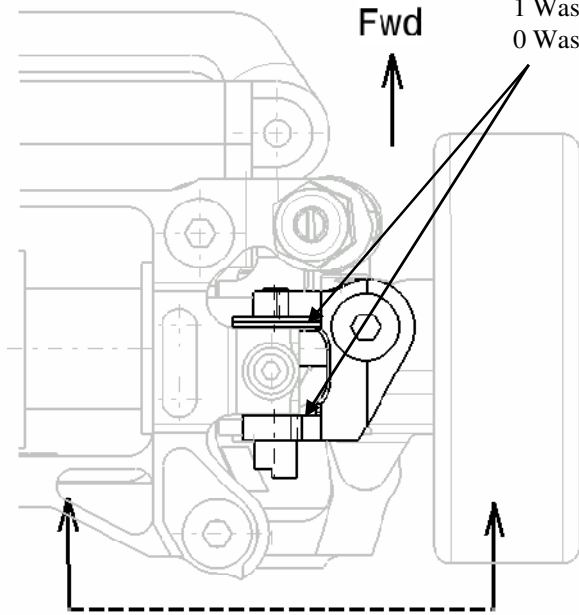


Suspension Adjustment

Eccentric adjustment: Tighten top set screw after adjustment. Note half circle protrusion on shaft indication position of eccentric.

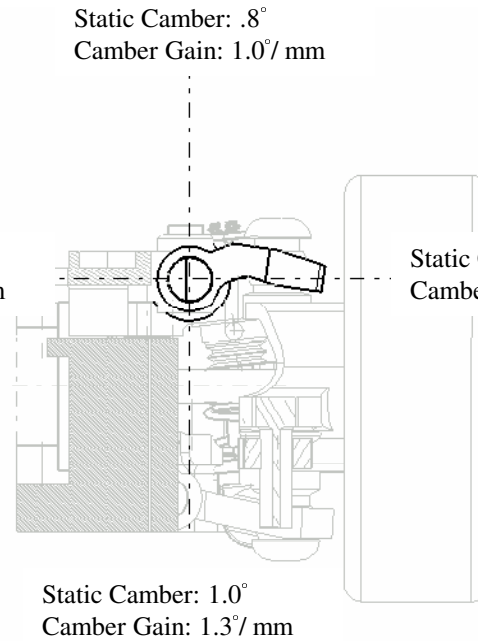
Camber gain on diagram below is given in deg per mm of wheel travel.

Move washer from front to back to adjust Castor.
 3 Washer = 0° Castor
 2 Washer = .92° Castor
 1 Washer = 1.8° Castor
 0 Washer = 2.8° Castor



Section Cut

Static Camber: 1.7°
 Camber Gain: 1.1°/mm



Section View Looking Forward