

Quarter Master Technical Bulletin #15  
**Star Mazda Ring Gear Update**

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Date: 2/16/06

Summary:

Several teams have had issues with ring gears cracking at or near the mounting bolts. The following fixes aid the longevity of the anodized ring gear. The recommendations below involve use of proper bolt torque and a load distributing washer ring.

Specifics:

The 8 bolts retaining the aluminum ring gear to the flywheel are 1/4-28 with prevailing torque-type lock nuts. Due to the loading, and the material they are clamping, a tightening torque of 8-10 ft-lbs (96-120 in-lbs) is recommended. This will ensure appropriate clamping without distortion of the ring gear.

To distribute the bolt load and support the ring gear, Quarter Master has designed an aluminum washer ring. The ring is split to ease assembly. This ring is intended to completely replace the washers in the original bolt kit, use of both will prevent the nut from 'locking'.

If there are any questions, please Contact your Star Race Cars dealer, Star Race Cars, or Quarter Master.