

Axis Universal Drive Shaft (UDS)

(How to keep your zero-backlash UDS in peak condition.)

Periodic inspection of the universal joints at each end of the driveshaft will allow one to determine if adjustment is required.

To Inspect: Hold the entire driveshaft at each end with both hands.
Counter –rotate

If wear has produced a looseness, or “gap” or “dead spot” will be felt indicating the need for adjustment.

To Adjust: The adjustment is performed by tightening the set screws in each of the U-joints (4 ea. Side, 8 total) When originally built, these are secured with extremely strong adhesive “Loctite”.

The following procedure is required:

1. Determine the section requiring adjustment.
2. Heat entire unit in oven to 350o F.
3. While unit is “HOT”, use 1/8” L Key allen wrench to advance the set screws. (Be sure to wear gloves or protective gear to avoid burns)
4. Allow unit to cool.

When cooled, the “Loctite” rehardens, to prevent loosening. Should future adjustments be required, the process can be repeated without harm.

U-joints can be lubricated with white lithium gauge or equivalent.