Two Tooth Steering Basics

Centralizing the Sector to the Worm

Before adjusting:

1. Loosen and remove cover nuts.
2. Loosen eccentric stud nut.
3. Loosen housing clamp bolt.

Setup:

1. Jack up the front of the vehicle.
2. Place stands and block the rear wheels.
3. Remove drag link or lash at this point.

To Adjust:

1. Move the steering wheel to the extreme position on the right side.
2. Tighten the worm adjusting screw 1/4 turn.
3. Retighten the three stud nuts.
4. Loosen the worm adjusting screw 1/4 turn.
5. Retighten the eccentric stud nut 1/2 turn.
6. Tighten housing cover nut.

Loosen Eccentric

Before adjusting:

1. Loosen the lock nut.
2. Loosen eccentric adjusting sleeve.

To adjust:

1. Grip and turn the eccentric adjusting sleeve slightly clockwise.
2. Turn the eccentric rivet in an anticlockwise direction.
3. The eccentric rivet should move the sector housing clamp and turn the worm gear by repeating the adjustment in the opposite direction.

Centralizing Sector to the Worm

Before adjusting:

1. Note the amount of play at the other location.
2. Document the amount of lash on both sides.
3. If there is less lash when the steering shaft is turned to the right slightly move eccentric rivet in an anticlockwise direction.
4. If the lash is less when the steering shaft is turned to the left, move eccentric rivet in a clockwise direction.

To inspect:

1. Push and pull on the steering wheel and note for movement.
2. To Detect:
   - Inspect for proper mesh of the two tooth sector in the worm gear.
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Two Tooth Sector

Grip the pitman arm and rotate it back and forth, checking for play in the steering shaft.

To inspect:

1. If there is any difference in the amount of lash on both sides, feel equal.
2. Repeat the adjustment in the opposite direction if necessary.

Two Tooth Sector

When finished, tighten the lock nut on the thrust screw.

Note:

1. There should be no loss of motion before engaging.
2. There should be no binding.
3. There should be no stiffness.
4. The steering wheel needs to rotate freely with no stiffness.

Initial Inspection For Problems

1. Loosen cover nuts.
2. Loosen eccentric stud nut.
3. Loosen housing clamp bolt.

Setup:

1. Jack up the front of the vehicle.
2. Place stands and block the rear wheels.
3. Remove drag link or lash at this point.

To Adjust:

1. Move the steering wheel to the extreme position on the right side.
2. Tighten the worm adjusting screw 1/4 turn.
3. Retighten the three stud nuts.
4. Loosen the worm adjusting screw 1/4 turn.
5. Retighten the eccentric stud nut 1/2 turn.
6. Tighten housing cover nut.

When it is necessary to make any one of these adjustments, the other two adjustments should also be checked.