

Dedicated to improving vehicle fun, safety & performance

## Installation Instructions

Thanks for purchasing our adjustable torque rod. Please read through these instructions before attempting the installation.

### Adjustable Torque Rod for 240 (1975-93)

ipd #8K0442



### TOOLS

- Angle finder
- 19mm wrenches
- Jack or ramps
- jack stands

### INTRODUCTION

Setting up the angles in a drive shaft is a delicate and exacting process. Thanks to the adjustable torque rods, it's not that hard anymore. The one device that is essential to this process is an angle finder. An angle finder is a 360 degree device that is commonly used to setup the angle on the roof of a house. They are available at Sears or other tool outlets for about \$10. They usually have a magnetic base. As a side note, be sure to check the basics before beginning, the transmission mounts and carrier bearing mounts should be in good condition and not sagging or weak.

### INSTALLATION

- 1** Safely raise the rear of the vehicle and support it with jack stands or ramps. If using jack stands, place them under the rear axle so the back of the car is resting on its' springs.
- 2** When measuring the drive shaft angles, we measure the angle of the drive shaft in relation to the differential and transmission. For two piece drive shafts the first portion of the drive shaft should be nearly the same angle as the transmission tail shaft. That is to say, it should be on the same centerline as the transmission and merely acts like an extension of the transmission output.



# INSTALLATION

- 3 The angle of the drive shaft at the differential and the angle of the drive shaft at the carrier bearing should be equal and opposite. So an angle of +5 degrees at the differential end of the drive shaft should mean an angle of -5 degrees at the carrier bearing end of the drive shaft.

- 4 Measure the existing drive shaft angles before removing the factory torque rods. To begin, verify that the flanges to be measured are vertical. To do this place the angle finder flatly against the differential flange at 90 degrees to the vehicle center line and rotate the drive shaft until it is at 0 degrees.



- 5 Measure the driveshaft angle at the carrier bearing and differential. Note that when measuring you should take care to have the angle finder flatly placed against the u-joint flange at the differential and carrier bearing, not places against the flange on the drive shaft.

Place the angle finder against the differential flange as shown. Do not place on this flange.



- 6 Once you have your measurements, remove one torque rod at a time and replace it with the new IPD adjustable torque rod. Do not remove both torque rods at the same time. To start, adjust your new IPD torque rods to the same length as the factory units and install them into the vehicle one at a time.

- 7 Once installed, check the drive shaft angles again. Remember, we will be adjusting the drive shaft angle at the differential to be equal and opposite of the drive shaft angle at the carrier bearing.

- 8 If the drive shaft angle at the carrier bearing is +4 degrees you will need to lengthen or shorten your new IPD torque rods until you have the drive shaft angle at the differential at -4 degrees.

- 9 Once these two angles are equal and opposite you have achieved the correct working angles necessary for smooth drive line operation.



## INSTALLATION

- 10** For vehicles with a one-piece drive shaft the same procedure should be followed with one change. Instead of measuring the front angle off of the carrier bearing u-joint it will be measured directly off of the u-joint at the front of the driveshaft.



## WARRANTY INFORMATION

### ***One Year Limited Warranty***

*ipd warrants to the original purchaser that the parts manufactured and/or sold by ipd (the Product) is free from defects in material and workmanship under normal use. ipd warrants that the Product will perform substantially in accordance with the specifications set forth in the documentation provided with it. The above express warranties are made for a period of the lesser of 12,000 miles or 12 months from the date the Product is installed in your vehicle.*

*Any improper use, operation beyond capacity, substitution of parts not approved by ipd in writing, any alteration or repair by others, or any removal, defacing or altering of the identification shall void this warranty. There is no warranty on high-performance or race related parts due to the nature of usage.*

*The purchaser shall notify ipd at 1-800-444-6473 of any defect within the warranty period no later than thirty (30) days after purchaser discovers the defect. Should any failure to conform to this warranty appear within the warranty period, ipd shall, on notification, correct the nonconformity at its option, either by repairing any defective part, or by making available, FOB ipd's plant, a repaired or replacement part. The purchaser must insure any defective item being returned because ipd does not assume risk of loss or damage while in transit. No payment or reimbursement shall be made for installation, removal, transportation or other charges. The remedies set forth in this instrument are exclusive, and the liability of ipd with respect to any sale shall not exceed the price of the product on which the liability is based.*

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