



## Inchworm Gear 1992+ Toyota Chain Driven to Gear Driven Transfer Case Speed Sensor Parts (SKU# TDT-SS)

### Installation Instructions

**PLEASE READ:** The components of this kit have been machined for specific applications. Double check you have the correct application for this adapter kit. Any modifications to this kit or the parts in it will void any warranty or return privileges. The instructions are designed to provide information about this adapter. Information about torque specifications, vehicle stabilization, disassembly, fluid recommendations and other related data is best found in repair manuals or factory service manuals available at auto parts stores or dealerships.



*This shows the vehicle speed sensor after assembly.*



*This part supplied by customer.*

**CAUTION:** Safety glasses should be worn at all times when working with vehicles and related tools and equipment.



**FOR ADDITIONAL COPIES OF THESE AND OTHER INSTRUCTIONS GO TO:**

[www.lowrangeoffroad](http://www.lowrangeoffroad) and click on the "INSTRUCTIONS" tab.

#### Suggested Tools:

- Phillips Screwdriver
- Pick tool
- Punch
- Hammer
- Measuring Tape (or Scale)
- Flat File
- Epoxy Cement
- Angel Grinder with a Cut off Wheel
- Hacksaw

## Kit Contents

Item #	Qty.	Description
1	1	Adapter Plate - Speed Sensor Adaptor
2	1	Allan Head Bolt 8m x 1.25 x 30mm
3	1	Epoxy Cement
4	1	Dielectric Grease

### Note:

It is necessary to use the parts from your stock Vehicle Speed Sensor. Do not discard the sensor that is in your stock chain drive transfer case.

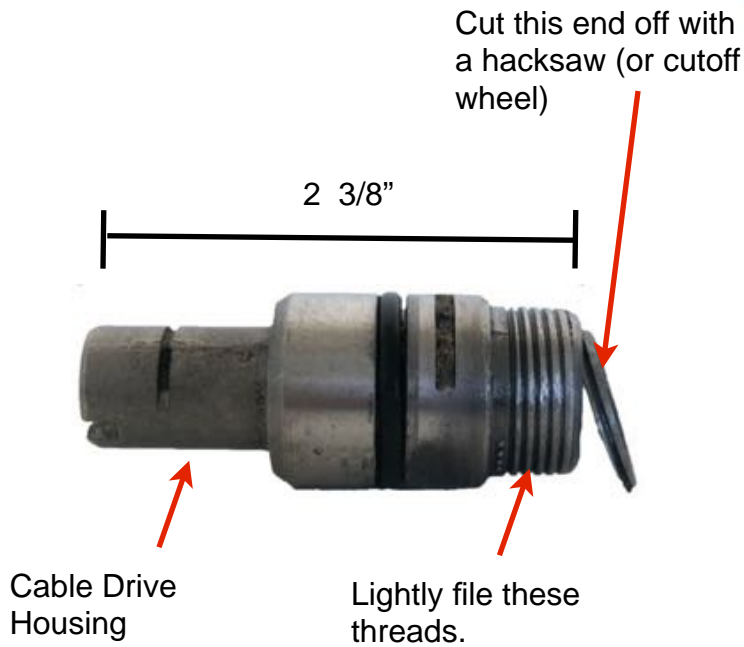


### Step 1

Remove the Speedometer Cable Drive from the housing by removing the clip (if applicable) and sliding the gear shaft out.

### Step 2

Using a cut off wheel, cut the original slot in the speedo drive shaft the rest of the way through the other side.



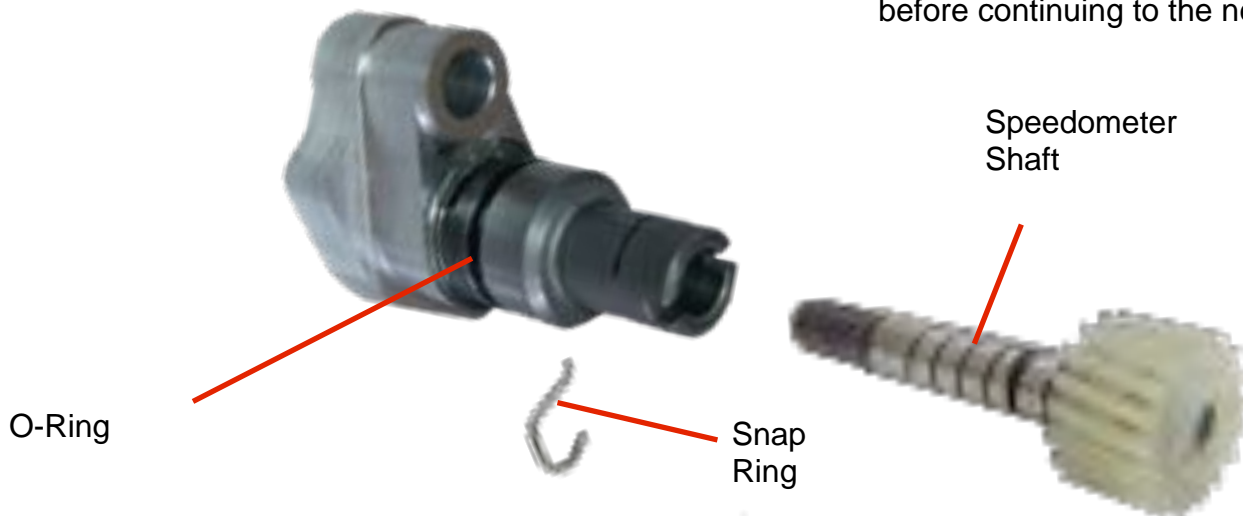
### Step 3

With the shaft out of the cable drive housing, cut the housing (with a hacksaw or cutoff wheel) at the threaded end to achieve a total housing length of 2 3/8". Lightly file the top of the threads so the cable drive housing fits in the supplied adapter.

### Step 4

Glue the cable drive housing into the supplied adapter using the supplied epoxy cement. The total height should be 2 15/16". Be careful not to "over-do" the epoxy. It's main purpose is sealing, not strength!

Note: If excess epoxy gets inside of the adapter it will have to be removed before continuing to the next step.



### Step 5

Install the speedometer shaft. Install the snap ring (if applicable). Some units do not have snap rings.

### Tech Tip 5

Check the O-Ring and replace it if needed.

Vehicle Speed Sensor

O-Ring

Brass Bushing



*Tapping out the brass bushing.*

## Step 6

Remove the three screws holding the vehicle speed sensor in place using a phillips screwdriver. Remove all the parts shown in the picture above. Keep track of all internal parts. The brass bushing will need to be tapped out with a hammer and punch from the shaft hole.

Allen Head Bolt



## Step 7

Install all the parts removed in the previous step, into the supplied adapter, using reverse order of removal. Use light taps when installing the brass bushing. Use the supplied dielectric grease to lube parts as they are assembled.

Note: It may be necessary to install the supplied allen head bolt before installing the vehicle speed sensor.



## Step 8

The vehicle speed sensor is now ready for installation.

As always, If you experience any difficulty during the installation of this product please contact Inchworm Gear Technical Support at 503-677-8111 M-F 7:30am-5:30pm MST. Thank you for purchasing from Inchworm Gear.



These instructions are designed as a general installation guide. Installation of many Inchworm Gear products require specialized skills such as metal fabrication, welding and mechanical trouble shooting. If you have any questions or are unsure about how to proceed, please contact our shop at 503-677-8111 or seek help from a competent fabricator. Using fabrication tools such as welders, torches and grinders can cause serious bodily harm and death. Please operate equipment carefully and observe proper safety procedures.

Rock crawling and off-road driving are inherently dangerous activities. Some modifications will adversely affect the on-road handling characteristics of your vehicle. All products sold by Inchworm Gear are sold for off road use only. Any other use or application is the responsibility of the purchaser and/or user. Some modifications and installation of certain aftermarket parts may under certain circumstances void your original dealer warranty. Modification of your vehicle may create dangerous conditions, which could cause roll-overs resulting in serious bodily injury or death. Buyers and users of these products hereby expressly assume all risks associated with any such modifications and use.

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