# VSS/Pulse Sensor
### #8280/8489 & Atlas          Date 08/20/07
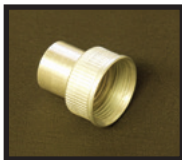
**Parts included**      1 ea. Speedometer housing    1 ea. o-ring    1 ea. seal      1 ea. speedometer gear

**Other parts all optional**     1 ea. coupler         1 ea. drive pin        1 ea. speedometer cable
1 ea. VSS for digital speedometer    1 ea. VSS for stock speedometer

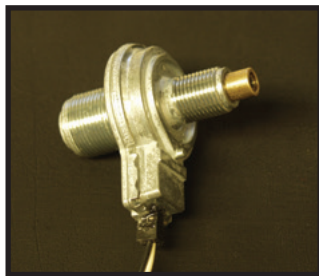| Gears | 33" | 35" | 37" | 38" | 39" | 40" | 42" | 44" | |
|---|---|---|---|---|---|---|---|---|---|
| 3.50 | | | | | | | | | |
| 4.11 | | | | | | | | | |
| 4.56 | | | | | | | | | |
| 4.88 | | | | | | | | | |
| 5.13 | | | | | | | | | |
| 5.38 | | | | | | | | | |
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When you are using an Atlas transfer case or the WH #8280 Extreme Duty output assembly you will need to assess your speedometer and VSS requirements so you can obtain the necessary additional parts needed to operate your vehicle properly. This tech sheet should help you with making the selection. We offer four options, as follows.

1. Use **#8498 STK ONLY** for installations where you are using the **stock speedometer** and no EFI (with VSS). This includes a speedometer housing o-ring, seal and speedometer cable only. The speedometer housing will bolt into the tail housing and the speedometer cable will hook directly to the speedometer housing on the Atlas or #8280 and the back of your stock speedometer.

2. Use **#8498 DIG SPEED** for installations where you are using a digital speedometer. This includes a speedometer housing, o-ring, seal, coupler and drive pin for your VSS/pulse sensor which you should already have as part of your digital speedometer kit.

3. Use **#8498 STK SPEED** for installations where you are using the stock speedometer and FORD EFI (with VSS). This includes a speedometer housing, o-ring, seal,  pulse sensor, coupler, drive pin, and speedometer cable.

4. Use nothing if you don't need a speedometer or if your using GPS for speedometer. The 8280 and Atlas come with a housing plug already installed.

Coupler and drive pin

**Drive pin needs to be cut down
to fit per your application.**



VSS/pulse sensor which you
should already have as part of
your digital speedometer kit.

It should be noted that our VSS are
8000 PPM same as Dakota Digital
and works with Ford EFI



VSS/pulse sensor

**Coupler to VSS installation:** Test fit everything ahead of time so that you know you are ready and have everything you need. When you are ready for your permanent installation use RED Locktite on the small end of the coupler and thread the coupler onto the VSS. Leave the end of the VSS a little below the small end of the coupler as shown. You do not want the end of the VSS to touch the end of the speedometer drive gear on the Atlas or 8280. Once the Locktite has set up (see Locktite directions) thread the large end of the coupler onto the Atlas or 8280 being careful not to cross thread. You can now install the speedometer cable if that applies to your set up. We like to hook up the wires using weather tight connectors you can use whatever type of connector you would like. The VSS provides the signal for your digital dash and/or EFI.