## Inspection Procedure

### Hub and Speed Sensor Inspection

Check for rust. Any rust present on the mounting area or on the backing plate can keep the bearing assembly from being fully seated (even when torqued down), creating an excessive “air gap” between the encoder and the sensor. It only takes a few extra thousandths of an inch to trigger the false error codes. (Fig. 1)

### Installation Procedure

It is imperative that all the components involved in reassembly be thoroughly cleaned of rust, scale, grease, dirt and any other contaminants. Using a wire brush attachment, clean the knuckle face. Using an abrasive brush with a Dremel tool, clean the inside of the knuckle and backing plate of loose rust and scale. Follow up with compressed air and brake cleaner spray to clean the knuckle and backing plate surfaces. Once all components have been cleaned, follow the factory service manual for hub assembly installation and proper torquing procedure. This vehicle requires the hub assembly to be torqued to 140 ft/lbs. with no load on the hub.