



## Failure To Transfer Sensor Components Results In Shaft Seal Failure Or Check Engine Light

### Application

1992-2004 Mazda and Mitsubishi vehicles with sensor-equipped power steering pumps.

### Problem

The replacement power steering pump front seal has blown out, or the check engine light turns on and code P550 is set.

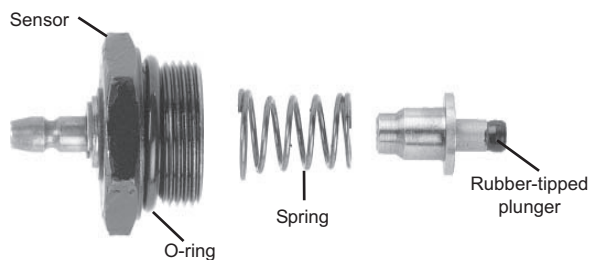
### Cause

It may be necessary to transfer the original sensor and its components (shown below) to the replacement pump. If these components are not transferred correctly, shaft seal failure results due to excessive pressure, or if the sensor is defective, code P550 is set.

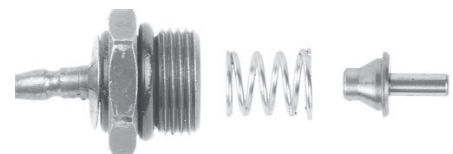
### Solution

Figure 1 shows the sensor, spring and rubber-tipped style plunger. Be sure components are installed in the order shown, and the rubber-tipped plunger is installed in the direction shown. Note that the metal-tipped style plunger shown in Figure 2 may be installed in either direction if the metal plunger separates from the brass holder. The third style, Figure 3, is already assembled as one piece. Be sure to thoroughly clean the sensor and its components, and install the sensor using the new supplied O-ring. Refer to the vehicle service manual for correct tightening specs. Replace a damaged or defective sensor (dealer item). If code P550 is set, be sure to verify proper operation of sensor and the ECM before servicing or replacing the power steering pump.

**Figure 1. Pressure Sensor Assembly (Rubber-tipped plunger)**



**Figure 2. (Steel-tipped plunger)**



**Figure 3. (One piece)**

