



# Technical Service Information

## FORD E40D FIPL SENSOR ADJUSTMENT

USE THE FOLLOWING PROCEDURE TO ADJUST AND/OR VERIFY THE ADJUSTMENT OF THE FIPL SENSOR ON THE 7.3L DIESEL EQUIPPED WITH THE E40D TRANSMISSION.

1. Verify that you have the latest design FIPL Sensor installed on the vehicle, OEM part number F2TZ-9B989-C. If not, stop and install one NOW.
2. With your Volt/Ohmmeter set to DC volts, and the key ON position, back probe the Orange wire from the FIPL sensor with the Red lead from your Volt/Ohmmeter, and the Black lead from your Volt/Ohmmeter to a good ground (See Figure 2). Approximately 5.0 volts should be seen here, as shown in Figure 2.
3. With your Volt/Ohmmeter set to DC volts, and the key ON position, back probe the Green wire from the FIPL sensor with the Red lead from your Volt/Ohmmeter, and back probe the Black wire from the FIPL sensor with the Black lead from your Volt/Ohmmeter, as shown in Figure 3.

THE FOLLOWING VOLTAGE SHOULD BE SEEN.

CLOSED THROTTLE ..... 1.4-1.6 VOLTS

APPROX. HALF THROTTLE ..... 2.0-2.2 VOLTS

WIDE OPEN THROTTLE ..... 4.1-4.3 VOLTS

NOTE: If wide open throttle voltage gets above 4.5 volts, the PCM will set a trouble code for TPS voltage high. If the voltage is not within the specifications above, loosen the two (2) screws that attach the FIPL sensor to the mounting bracket (See Figure 1), and rotate the FIPL sensor until the above readings can be achieved.

5. If the FIPL sensor voltage readings still do not fall within the specifications above, adjustment may be attempted by loosening the FIPL sensor bracket attaching bolts (See Figure 1), and rotating the bracket.

NOTE: Movement of the bracket is not normally used as a means for adjustment.

If required, remove the epoxy from the FIPL sensor bracket attaching bolts, and rotate the bracket until the above readings are achieved.

### SERVICE INFORMATION:

FIPL Sensor, 7.3L Diesel (New Design) ..... F2TZ-9B989-C

Figure 1

**TP SENSOR  
ATTACHMENT SCREW**

**TP SENSOR**

**TP SENSOR BRACKET  
SCREWS (DO NOT ADJUST)**

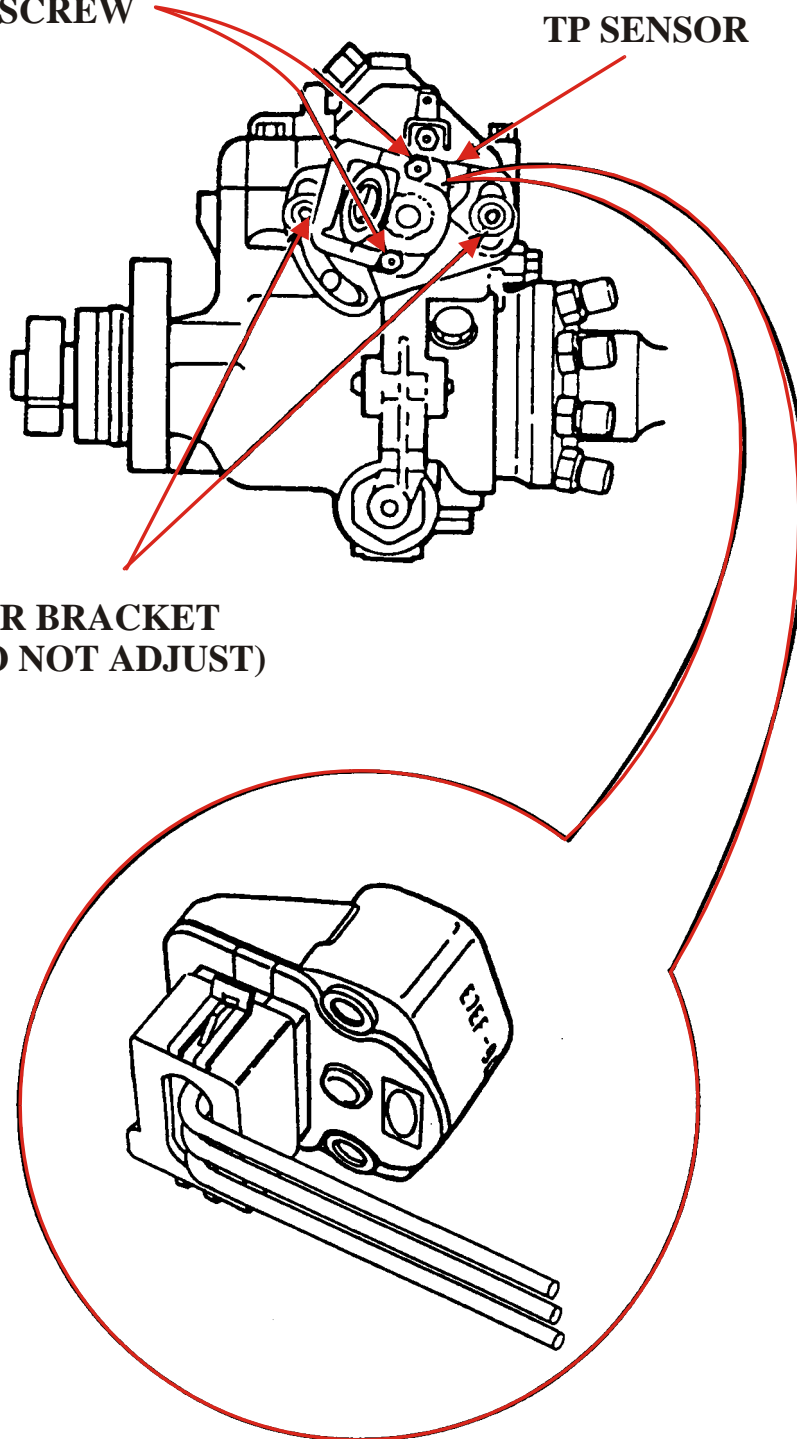


Figure 1

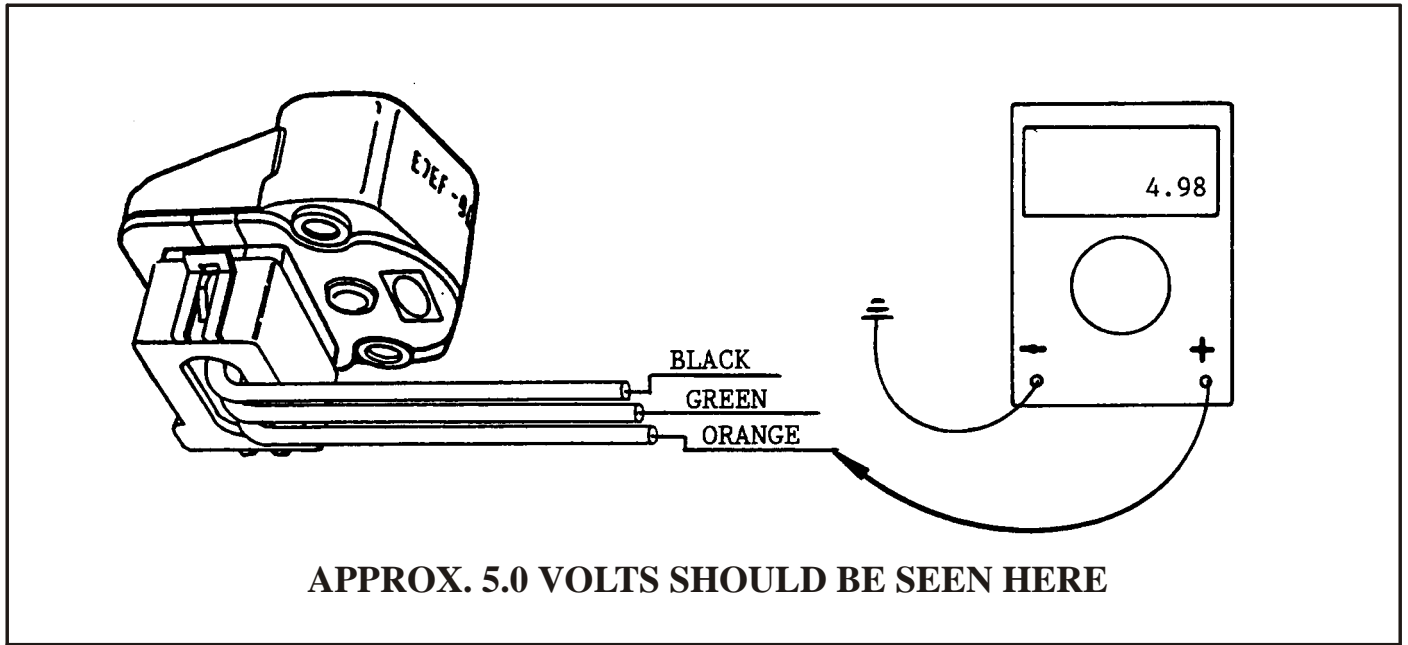


Figure 2

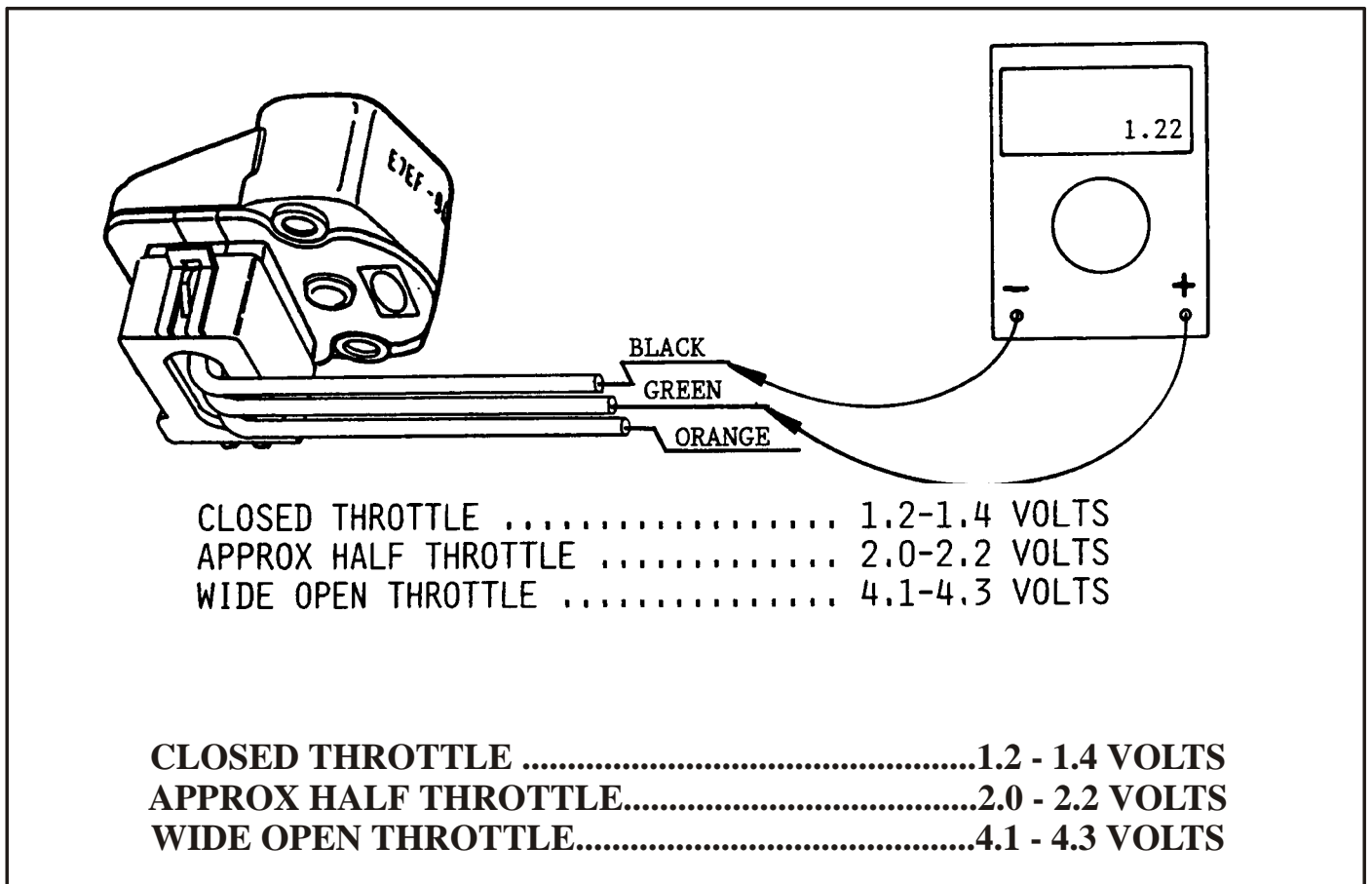


Figure 3