

Activity 27

John Deere Position Sensor

Throttle Actuator Throttle Position Sensor

Student Name _____

Date _____

Tools and equipment:

1. Classroom materials
2. Lap-top Tool
3. Hand Tool Set
4. Multi-meter

Step 1

Locate the Throttle Actuator TPS sensor:

- TPS ground Wire color _____
- TPS Sensor Signal Wire color _____
- TPS 5-volt Reference Wire color _____

Step 2

- Back probe the throttle actuator TPS signal wire with a lab-scope.
- Set-up the lab scope time base and voltage scales
- Make sure the ignition is turned off
- Turn ignition on (KOEO)
- Press "FREEZE" when the pattern appears
- Draw the wave form in the space provided

Step 3

- Draw the waveform in the space provided below
- Write the voltage and time base scale in the space provided

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Time base setting _____

Voltage setting _____

Probe ratio _____

Step 3

Using a Lab-scope connect the positive lead to **FPP2** Signal wire, Draw the wave-form in the space provided: **KEY ON ENGINE OFF (KOEO)**

- Press the throttle pedal slowly until the pedal is fully pressed

Time base setting _____

Voltage setting _____

Probe ratio _____

Step 4

Using a Lab-scope connect the positive lead to **IVS** Signal wire, Draw the wave-form in the space provided: **KEY ON ENGINE OFF (KOEO)**

- Press the throttle pedal slowly until the pedal is fully pressed

