SIM P-lead troubleshooting

Note:
- **SIM P-lead voltage, resistance, and signal values are measured with the <u>P-lead disconnected from the P-lead stud on the SIM.</u>**
- **Tach 2 outputs are measured with the <u>P-lead connected to the P-lead stud on the SIM</u>.**

P-lead trouble shooting

| Input Voltage*	Engine Off	Running at 800 RPM
14.2	10.9 volts	11.1 volts
28.2	22.5 volts	22.65 volts

*Measurements taken using handheld Fluke multimeter
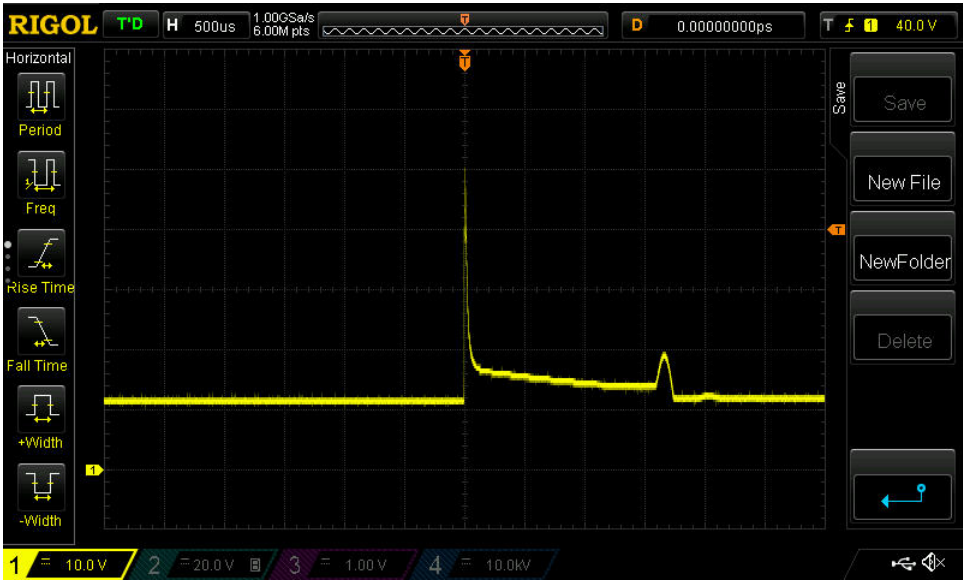
P-lead Resistance measurements

Positive (red) meter lead	Negative (black) meter lead	Expected Results
P-lead post	Corner Post (ground)	Open
Corner Post (ground)	P-lead post	260K ohms

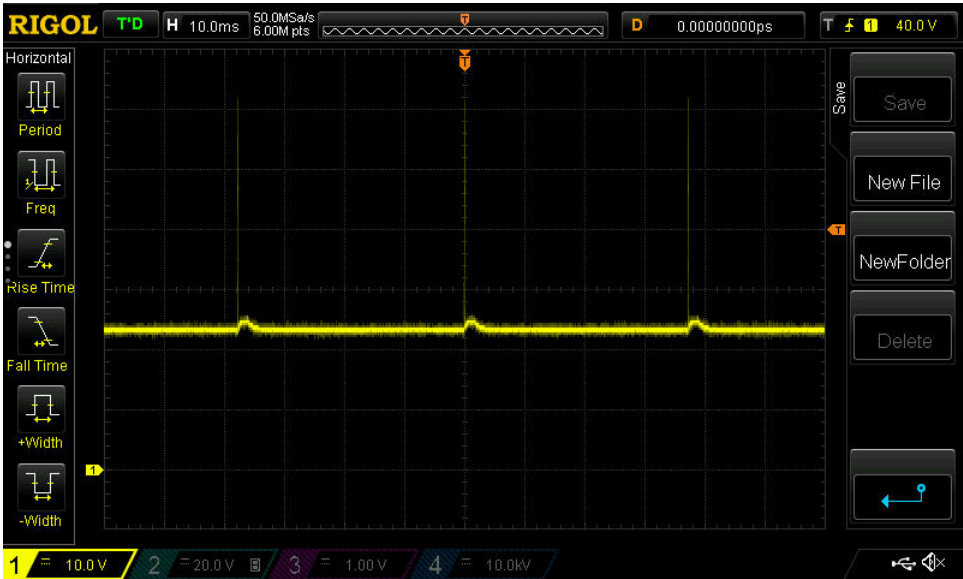***Signals below taken using Oscilloscope***
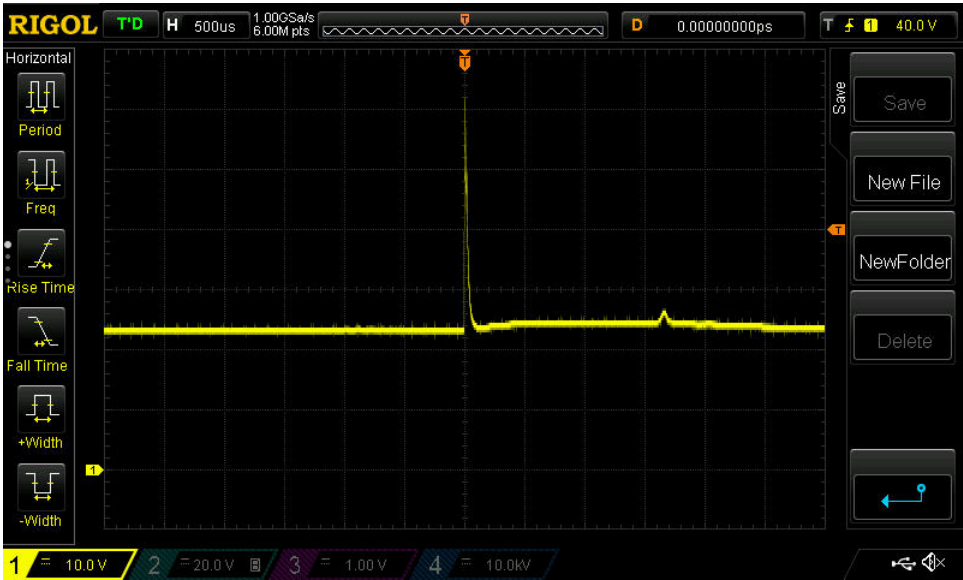
P-lead signal at 800 RPM & 14.2
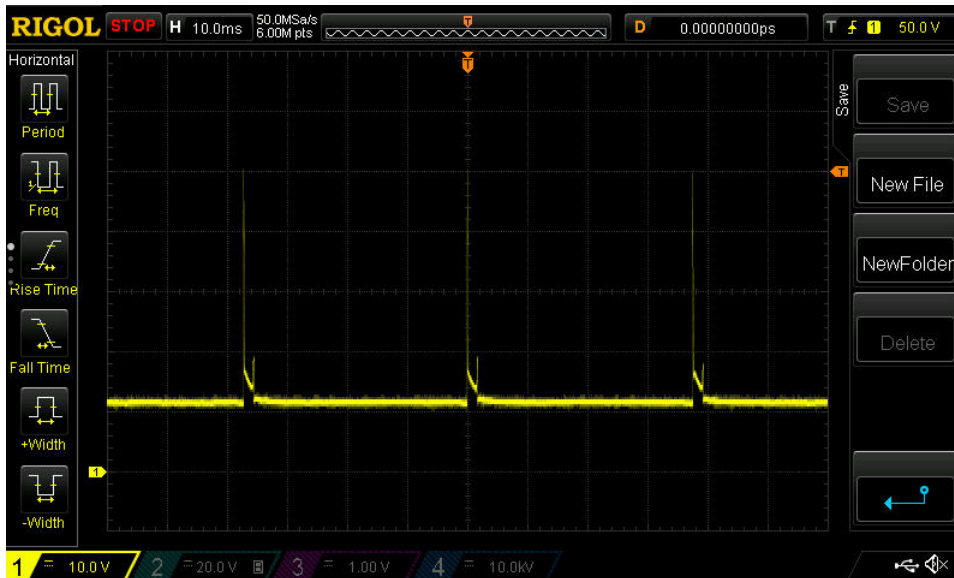
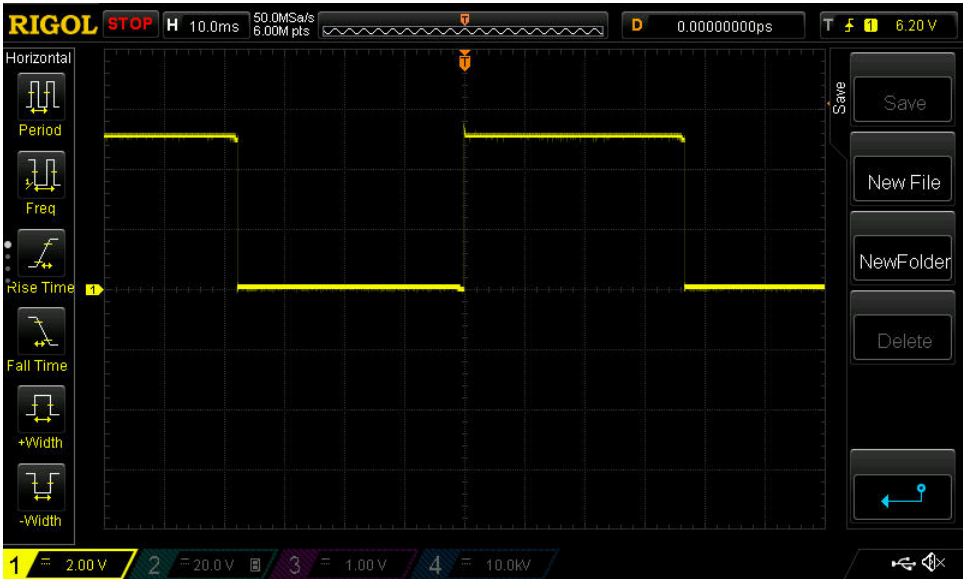P-lead signal at 800 RPM & 14.2 volts (zoomed in)

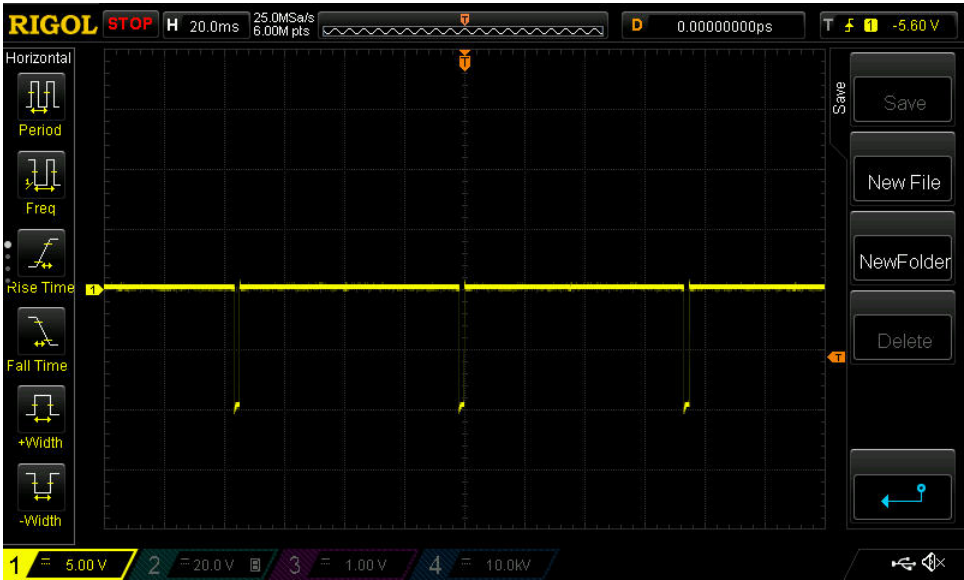

P-lead signal at 800 RPM & 28.2 volts

P-lead signal at 800 RPM & 28.2 volts (zoomed in)

Tach 2 0–5-volt output

Tach 2 Horizon Output

Pulses per revolution
4 cylinder – 1 pulse per revolution
6 cylinder – 1.5 pules per revolution