

700 EFI - Troubleshooting the EFI system

With the introduction of the new Sportsman 700 EFI ATV and all its technological features, including the Digital Wrench EFI Diagnostic Software, it's important that technicians "stay grounded" when troubleshooting a potential running issue. What this means is **don't overlook the basics.** (i.e; Battery Condition, Fuel, Compression, Electrical, Ignition, etc.) **Jumping "head-first" into a problem without having performed the basic required checks can result in wasted time, parts and money.**

To prevent such an event from happening, we have provided an EFI check list for you to cut out and paste onto your service manual, tool box or shop wall. Reference your Polaris Sportsman 700 EFI Service Manual while performing these procedures. **Following this check list in sequence BEFORE connecting to the Diagnostic Software will provide you with an overall condition of the EFI system before a diagnosis is made:**

POLARIS 700 ATV EFI BASIC DIAGNOSTIC CHECK LIST **REQUIRED CHECKS BEFORE CONNECTING TO THE DIAGNOSTIC SOFTWARE**

n = Completed

- **Check Battery Voltage (12.5VDC minimum)** - Charge Battery if needed and perform Cranking Voltage Drop Test
- **Perform Fuel Pressure Test** - Using Pressure Tester PU-43506, verify the fuel pump assembly will pump and hold 39 psi \pm 3 (269 kpa \pm 20)
- **Inspect all electrical connections** - Remove and/or inspect each of the EFI system connectors, looking for dirty/worn connections, broken/pinched wiring, broken/misaligned or poorly installed connector pins, etc. **(FACT: 80% of all EFI problems are the result of faulty connections)**
- **Inspect Spark Plugs** - Check for signs of carbon fouling or flooding. Clean or install new plugs if required
- **Perform Ignition Spark Check** - Spark should be strong enough to jump 1/4" (.63cm) gap and be white/blue in color
- **Perform Compression Test** - Average compression should be 150-170 psi (1034-1172 kpa)