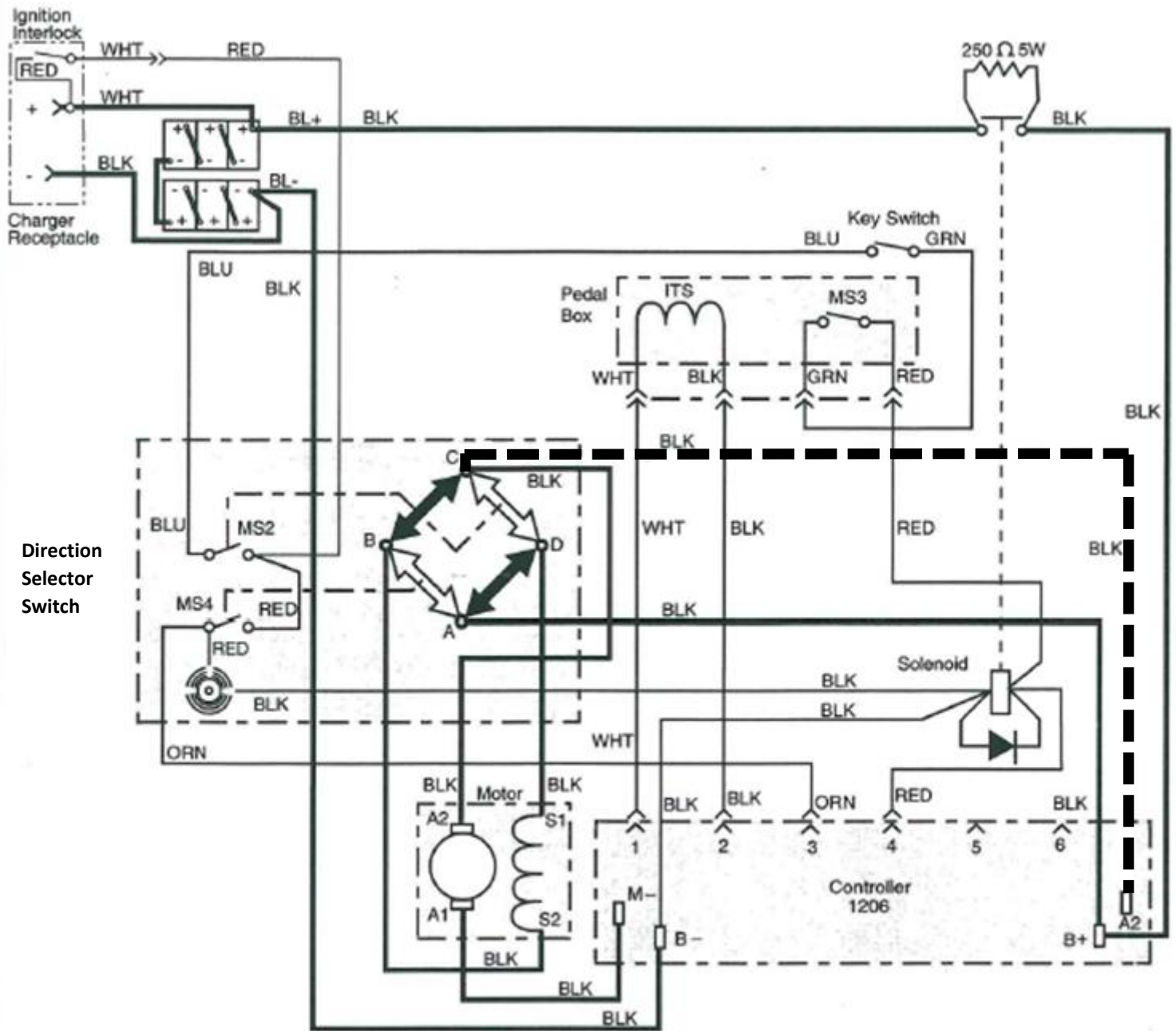




# E-Z-GO TXT (Non-PDS) DIAGNOSTICS



Wires indicated **————** are contained in power harness  
 All other wires are control wiring  
 MS2 is closed when direction selector switch is in forward or reverse  
 MS3 is activated by accelerator pedal  
 MS4 is closed by direction selector switch in reverse only

**————** This cable is only used with 1206-04 (from Forward/Reverse post C to controller A2 terminal). Not used on 1206-03.

# E-Z-GO TXT (Non-PDS) Troubleshooting Sequence

**FOR SAFETY, ALWAYS LIFT THE DRIVE WHEELS OFF THE GROUND WHEN TROUBLESHOOTING!**

THE FOLLOWING TESTS ARE CONDUCTED WITH A GOOD BATTERY PACK VOLTAGE MEASUREMENT. ALSO, THE CONNECTOR MUST BE ATTACHED TO THE CONTROLLER WHEN MAKING THESE CHECKS. YOU WILL NEED TO 'BACK PROBE' THE PINS FROM THE WIRE SIDE OF THE CONNECTOR. USE A PAPERCLIP IF NECESSARY.

Attach Voltmeter Negative (-) lead to main Battery Negative (-) for the following tests.

Use the following sequence when checking individual pins (don't skip steps). **If you find a fault, do not move on to the next step until the fault is corrected:**

- Measure the voltage at the main battery positive post (let's call it Pack Voltage)
- Pin 4** *With Direction Selector Switch in Forward, Key Switch On, and Pedal down*, must be pack voltage (and solenoid must click)
  - *If not pack voltage, check charger interlock (reed) switch in charger receptacle, micro switch 2 (MS2) in the Direction Selector Switch, Key Switch, Pedal Switch (MS3), and wiring for an open condition*
  - *If pack voltage at pin 4, but solenoid does not click, verify pack volts across solenoid small terminals. Repair open wires or replace solenoid, if necessary*
- Pin 3** *With Direction Selector Switch in Forward, Key Switch On, and Pedal down*, must be 0 volts
  - *If not, check micro switch 4 (MS4) for a shorted condition*
- Pin 3** *With Direction Selector Switch in Reverse, Key Switch On, and Pedal down*, must be pack voltage and backup beeper should beep
  - *If not, check micro switch 4 (MS4) for an open condition*
  - *If pack voltage, but beeper does not beep, verify backup beeper is attached. Replace if necessary*
- Pin 2** *With Direction Selector Switch in Forward, Key Switch On, and Pedal pressed enough to make solenoid click*, must be approximately 12-16V voltage
  - *If not, remove ITS sensor (black wire) and recheck. If voltage returns to 12-16V, replace ITS sensor. If voltage remains below 12V, replace controller*
- Pin 1** *With Direction Selector Switch in Forward, Key Switch On, and Pedal pressed enough to make solenoid click*, must be approximately .6V (+/- .2V)
  - *If not, check wiring between ITS and pin 1. If wiring is good, replace ITS*
- Pin 1** *With Direction Selector Switch in Forward, Key Switch On, and Pedal fully depressed*, must be approximately 1.6V (+/- .2V)
  - *If not, check wiring between ITS and pin 1. If wiring is good, replace ITS*

Continued on next page ...

## Helpful Hints

- DO NOT UNDER ESTIMATE THE IMPORTANCE OF MOTOR RESISTANCE CHECKS AND MAIN SOLENOID CHECKS. MANY CART ISSUES ARE CAUSED BY BURNT OR DAMAGED BRUSHES THAT WILL BE FOUND AS PART OF THE ARMATURE RESISTANCE CHECK. ALSO A SHORTED ARMATURE AND FIELD WITHIN THE MOTOR WILL DAMAGE THIS CONTROLLER.

Flight Systems Industrial Products also offers the following Technical Support options ...



Troubleshooting Manuals / Codes  
[www.fsip.biz/TroubleshootingManuals.html](http://www.fsip.biz/TroubleshootingManuals.html)

Live Tech Support Chat  
[www.fsip.biz](http://www.fsip.biz)



Technical Support Forum  
[Fsip.websitetoolbox.com](http://Fsip.websitetoolbox.com)

Frequently Asked Questions  
[www.fsip.biz/FAQ.html](http://www.fsip.biz/FAQ.html)



Phone Support  
1-800-333-1194 (Option 4)

**PRE-INSTALLATION  
INSTRUCTIONS MUST BE  
FOLLOWED OR  
WARRANTY WILL BE VOID**

**IMPORTANT! E-Z-GO TXT (NON-PDS)  
TROUBLESHOOTING INFORMATION  
INCLUDED IN THIS PACKET**