** Battery Voltage*

TEST 2
a. Connect voltmeter between common engine ground and Test Point 2.
b. Push start switch.

No voltage reading; proceed to TEST 3.

TEST 3
a. Connect voltmeter between common engine ground and Test Point 3.
b. Push Start Switch.

12 Volt Reading*
Check BLACK ground wire for poor connection or open circuit. Reconnect ground wire to starter solenoid; proceed to TEST 7.

No voltage reading; proceed to TEST 4.

12 Volt Reading
Defective starter solenoid.

Electric Start Tiller Handle Model
Neutral start switch on lower engine cowl is open or BLACK or WHITE switch leads are disconnected or damaged. Proceed to TEST 7.

TEST 4
a. Connect voltmeter between common engine ground and Test Point 4.
b. Push Start Switch.

12 Volt Reading*
Neutral start switch is open, or YELLOW/RED wire is open between Test Points 4 and 3.

No voltage reading; proceed to TEST 5.

TEST 5
Connect voltmeter between common engine ground and Test Point 5.

12 Volt Reading*
Defective ignition switch.

No voltage reading; proceed to TEST 6.

TEST 6
Connect voltmeter between common engine ground and Test Point 6.

No voltage reading; check RED wire between battery positive terminal and Test Point 6.

12 Volt Reading*
Check fuse in RED wire between test points 5 and 6.
Check for open RED wire between test points 5 and 6.

TEST 7
a. Connect voltmeter between common engine ground and Test Point 1.
b. Push Start Switch.

No voltage reading; Defective starter solenoid.

12 Volt Reading*
Should hear solenoid click; proceed to TEST 8.

TEST 8
a. Reconnect BLACK (starter motor) cable to starter solenoid Test Point 1.
b. Connect voltmeter between common engine ground and Test Point 7
c. Push Start Switch.

No voltage reading; check BLACK cable for poor connection or open circuit.

12 Volt Reading*
Check BLACK ground cable at starter for loose or corroded connection, or open circuit. If cable is O.K., check starter motor.