

TESTER OPERATIONS

GREEN = GOOD ----- RED = BAD

BATTERY

Before cranking

GREEN Led will be **ON** when RED and BLACK clips are connected to the battery AND the battery voltage is 12.4 volts or more.

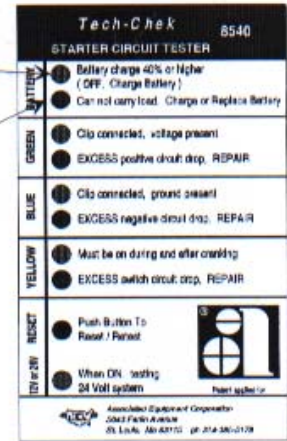
If the **GREEN** Led is **OFF** battery voltage is too low for accurate circuit testing. Charge or replace the battery before continuing.

RED Led is **ON** when the RED and BLACK clips are connected to the battery AND the battery voltage is 10.0 volts or less. Charge or replace the battery before continuing.

After cranking

GREEN Led is **ON** when battery voltage remains above 10 volts.

RED Led is **ON** when battery voltage falls below 10 volts during cranking. Charge or replace the battery.



GREEN

Before cranking

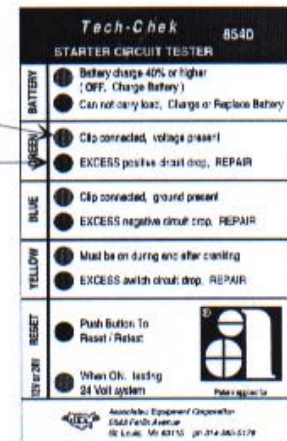
GREEN Led is **ON** when the GREEN clip is connected to the STARTER battery post AND voltage is present at the starter post.

RED Led is **ON** when the GREEN clip is **NOT** connected to the STARTER battery post OR there is **NO** battery voltage at the starter post.

After cranking

GREEN Led is **ON** when the cable and connection to the STARTER battery post is **GOOD** (acceptable voltage drop).

RED Led is **ON** when the cable and connection to the STARTER battery post is **BAD** (unacceptable voltage drop).



BLUE

Before cranking

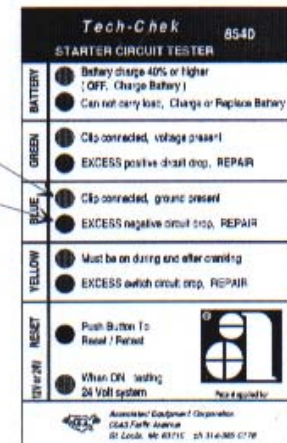
GREEN Led is **ON** when the BLUE clip is connected to the STARTER housing AND a ground connection exists for the starter.

RED Led is **ON** when the **GREEN** clip is **NOT** connected to the STARTER housing OR there is **NO** ground present at the starter.

After cranking

GREEN Led is **ON** when the battery ground cable and starter housing have a **GOOD** ground.

RED Led is **ON** when the ground cable or starter housing ground is **BAD** (unacceptable voltage drop).



TESTER OPERATIONS

GREEN = GOOD ----- RED = BAD

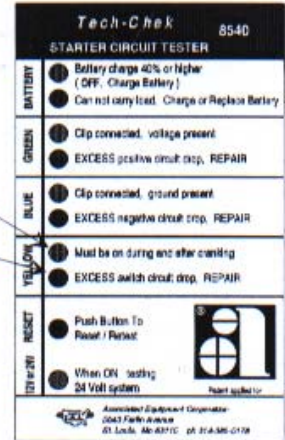
YELLOW

Before cranking

GREEN Led is **ON** when the YELLOW clip is connected to the SOLENOID ignition terminal AND internal solenoid coil is **GOOD**.
 RED Led is **ON** when the YELLOW clip is **NOT** connected to the SOLENOID ignition terminal OR the solenoid coil is **BAD**.

After cranking

GREEN Led is **ON** when the wire, ignition switch and connection to the SOLENOID ignition terminal are **GOOD** (acceptable voltage drop).
 RED Led is **ON** when the wire, ignition switch and connection to the SOLENOID ignition terminal are **BAD** (unacceptable voltage drop).



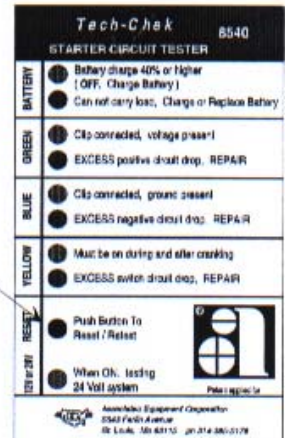
RESET

Before cranking

When the leads are first connected all Led's come on (both GREEN and RED) to verify they are operational. The RESET button is then pushed to set the tester.

After cranking

Observe the Leds. To repeat the test push the RESET button to reset the tester.



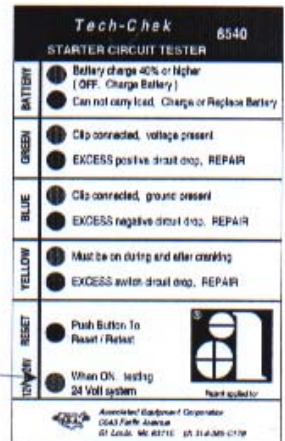
12V or 24V

Before cranking

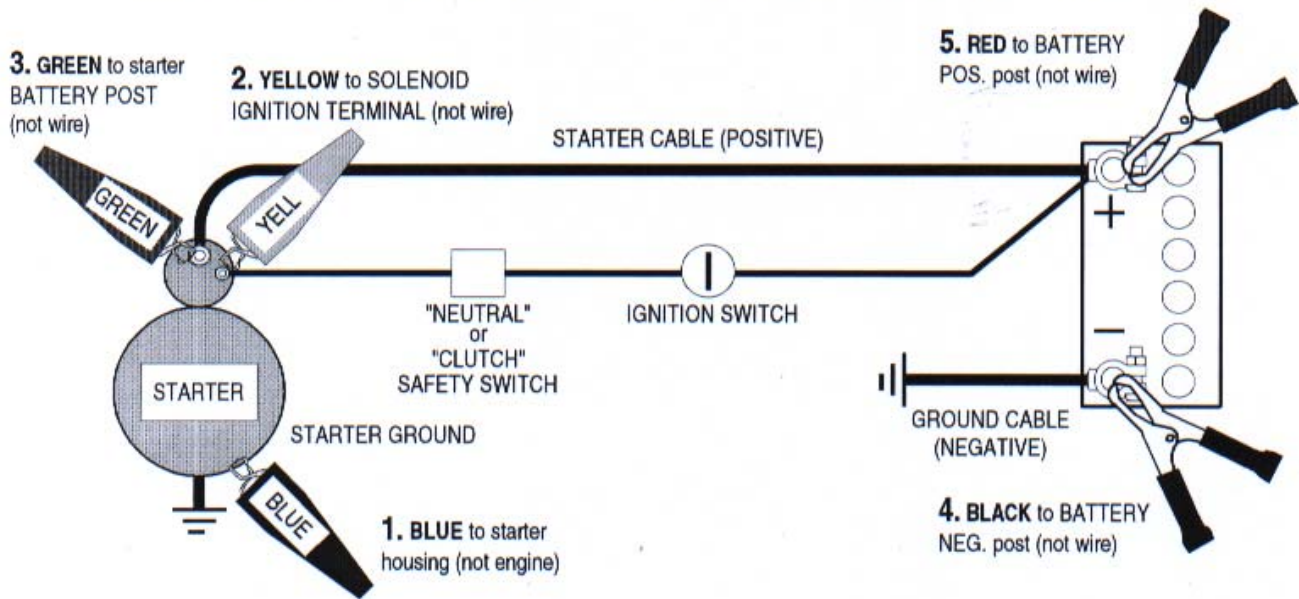
The tester with the RED and BLACK leads connected determines whether the system being tested is 12 volt or 24 volt.

If the **ORANGE** Led is **OFF** the tester self-calibrates for a 12 volt system.

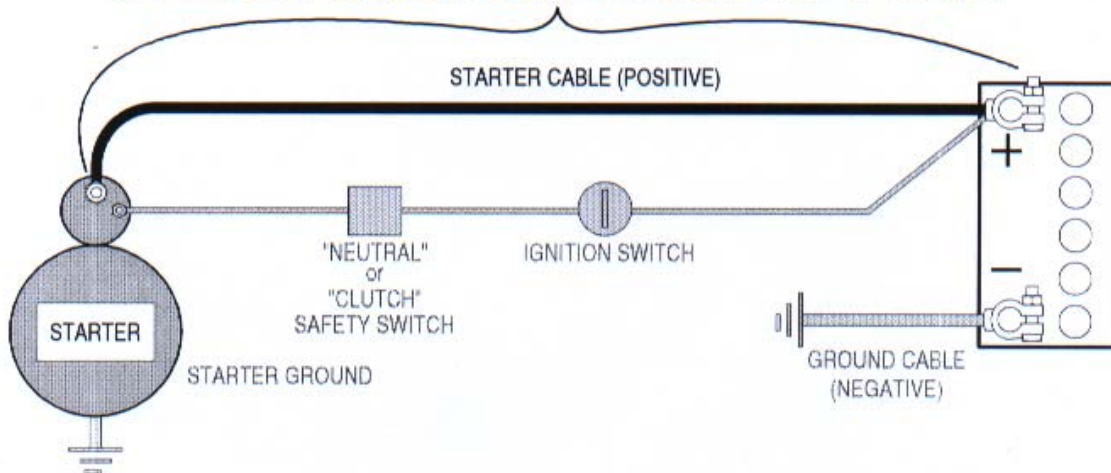
If the **ORANGE** Led is **ON** the tester self-calibrates for a 24 volt system.



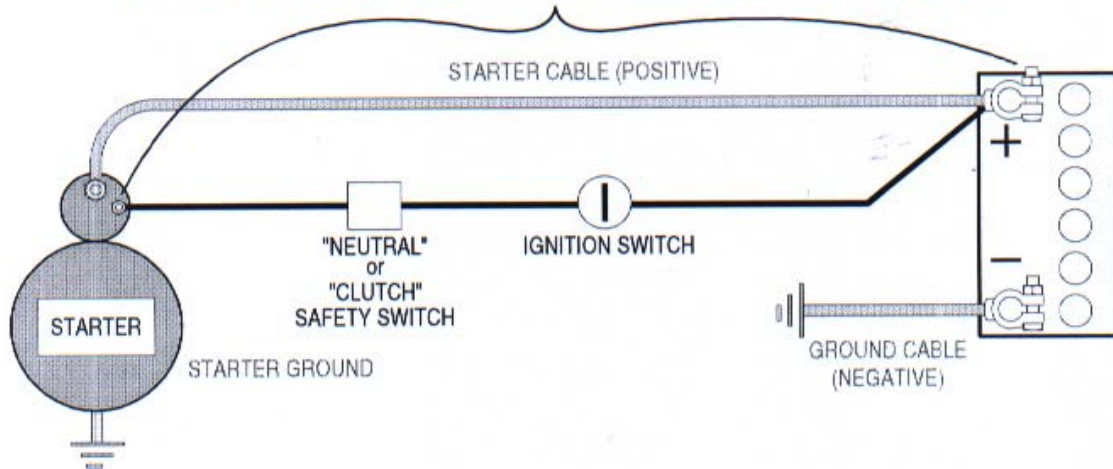
TYPICAL STARTER CIRCUIT WITH SOLENOID ON STARTER



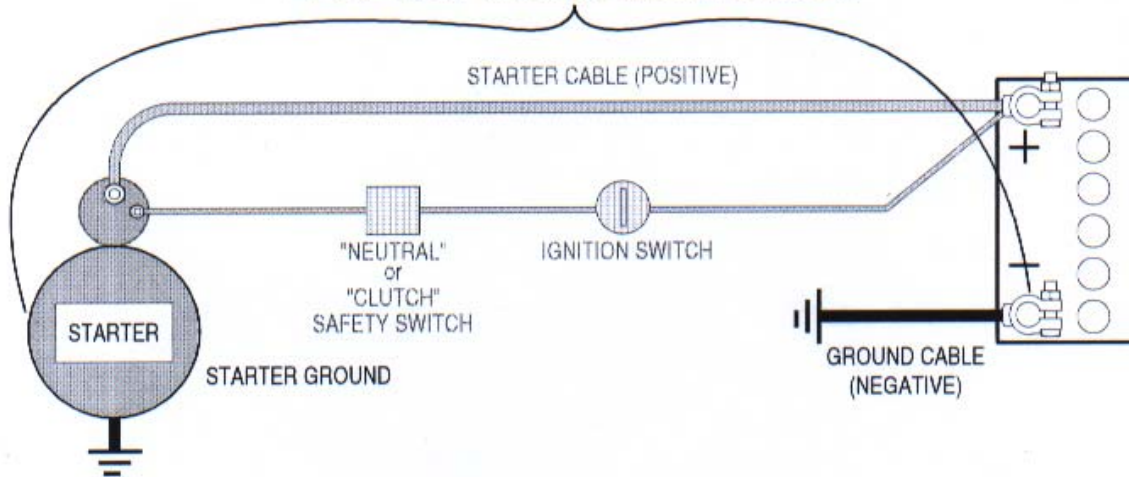
GREEN CLIP CHECKS THE STARTER CABLE PART OF CIRCUIT



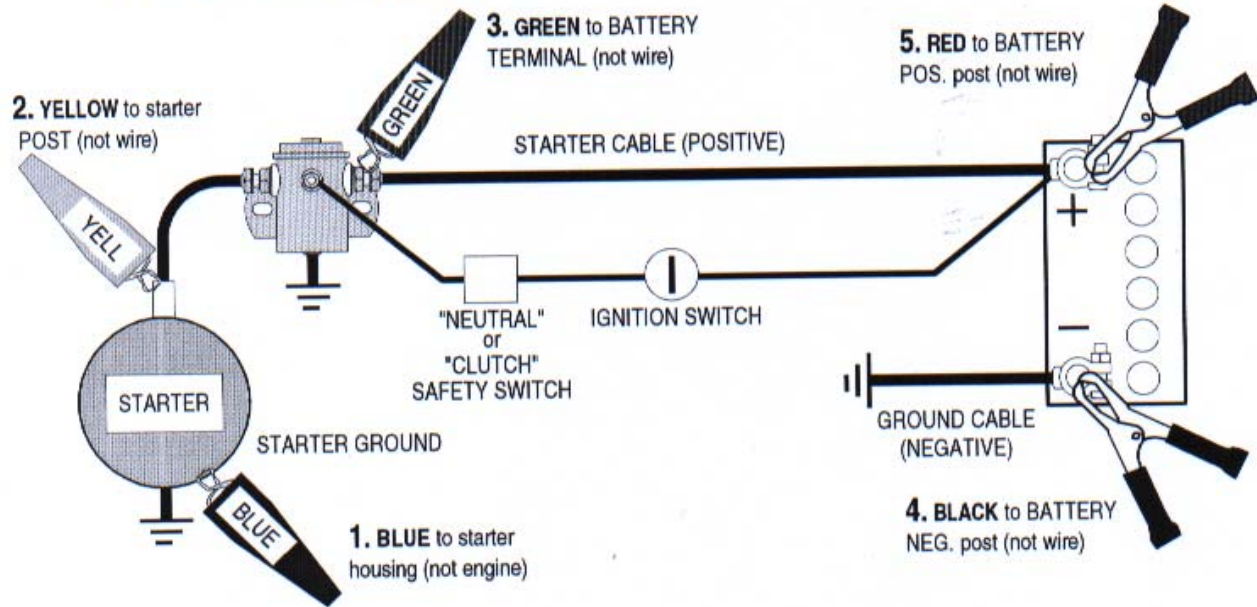
YELLOW CLIP CHECKS IGNITION SWITCH/SOLENOID CIRCUIT



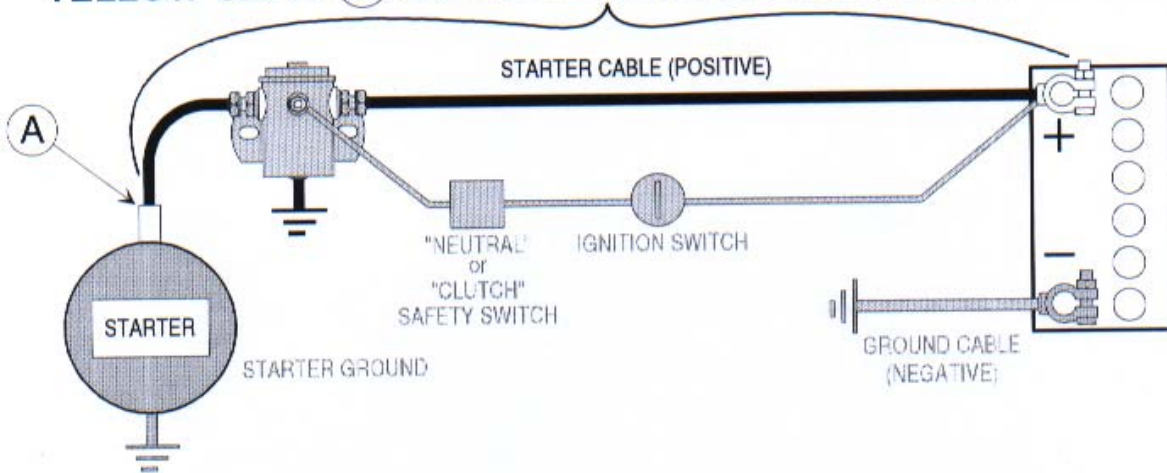
BLUE CLIP CHECKS GROUND CIRCUIT



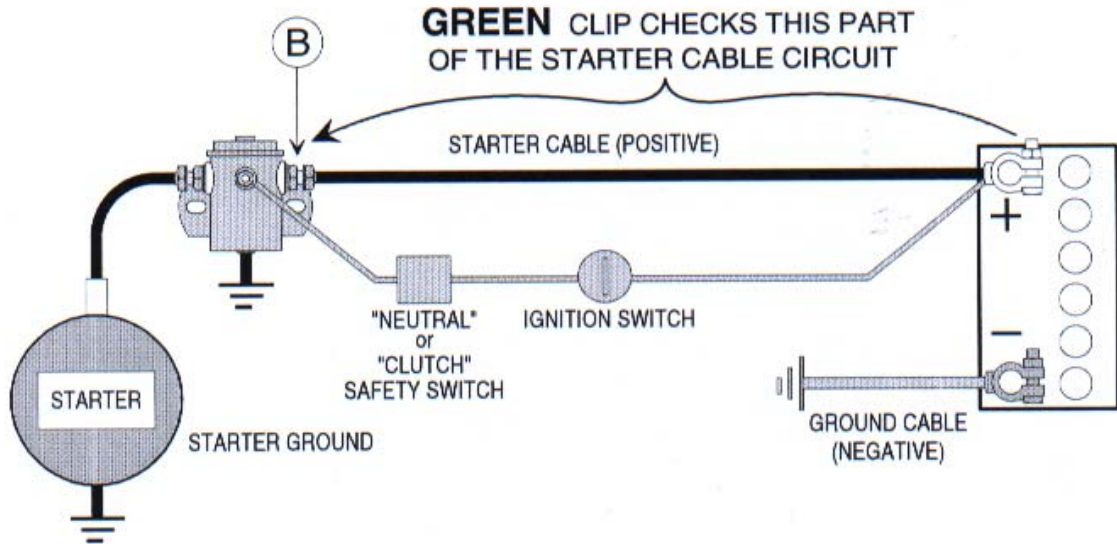
TYPICAL STARTER CIRCUIT WITH SEPERATE SOLENOID



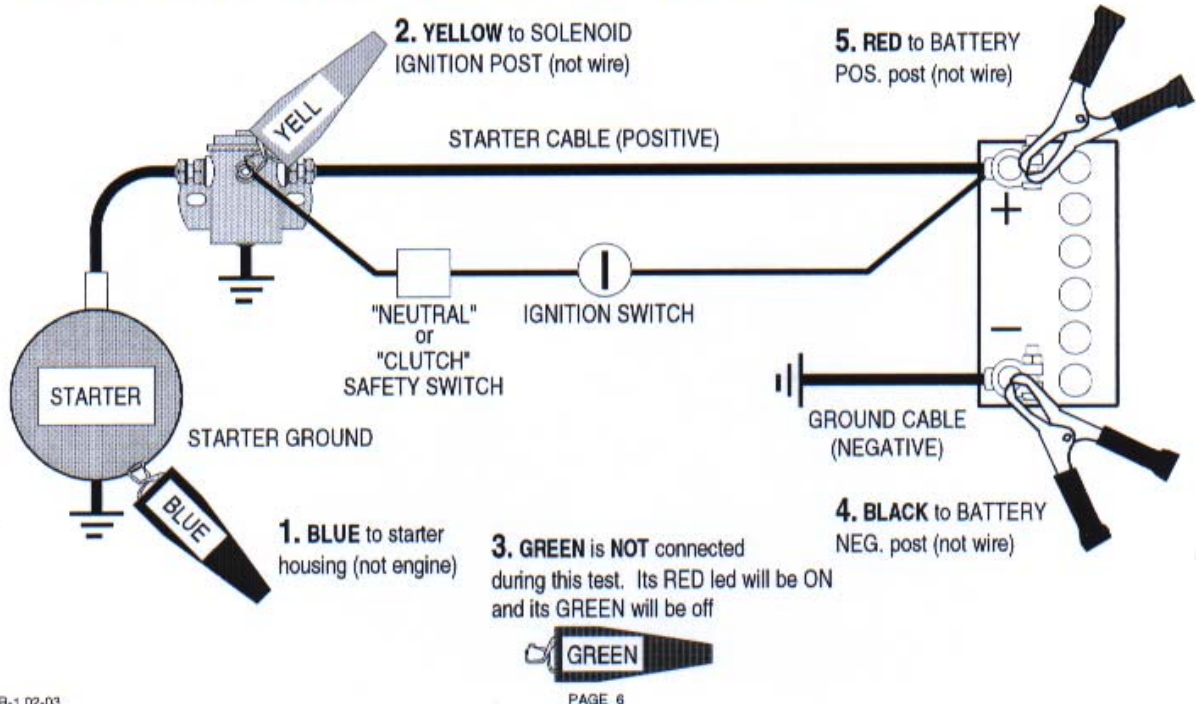
YELLOW CLIP AT **(A)** CHECKS THE STARTER CABLE AND SOLENOID CIRCUIT



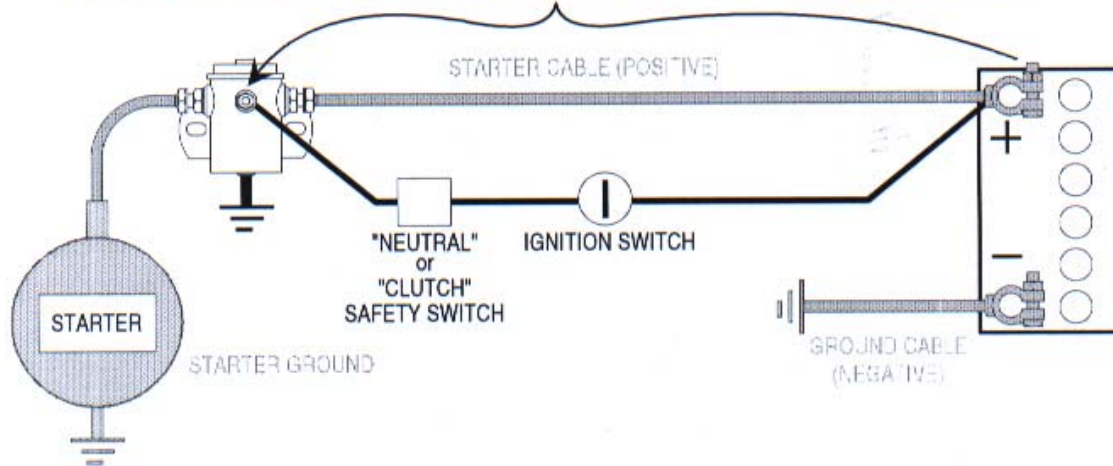
IMPORTANT NOTE: THE GREEN CLIP Led WILL BE OFF AND THE RED Led WILL BE ON PRIOR TO CRANKING BECAUSE THERE IS NO VOLTAGE PRESENT AT THE STARTER POST PRIOR TO CRANKING



NEXT MOVE THE YELLOW CLIP TO THE SOLENOID IGNITION TERMINAL



YELLOW CLIP THEN CHECKS IGNITION SWITCH/SOLENOID CIRCUIT



BLUE CLIP CHECKS GROUND CIRCUIT

