

SECTION 12A – ELECTRICAL COMPONENTS: GASOLINE VEHICLES

⚠ DANGER

- See General Warning, Section 1, Page 1-1.

⚠ WARNING

- See General Warning, Section 1, Page 1-1.

STARTER AND STARTER SOLENOID

See General Warning, Section 1, Page 1-1.

Refer to the engine manual for testing, removal, disassembly, and installation procedures. See Section 20.

RELAYS

See General Warning, Section 1, Page 1-1.

The start relay (1), differential relay (2), and accessory relay (optional, not shown) are housed on the electrical component mounting plate located under the driver-side seat near the battery (**Figure 12a-1, Page 12a-1**).

Testing the Relay

See Test Procedure 7, Section 11a, Page 11a-15. See also Test Procedure 8 – Differential Relay on page 11a-17.

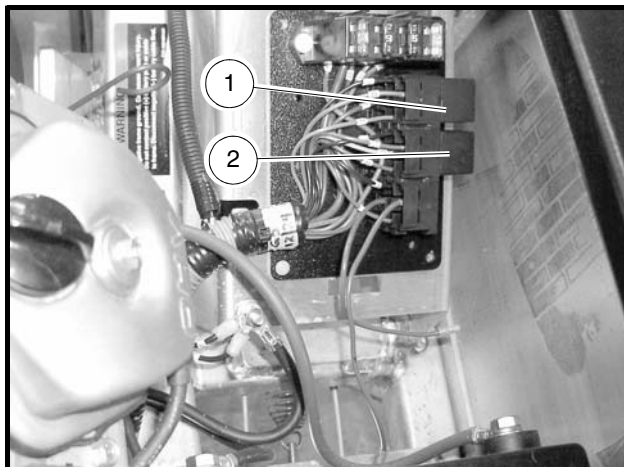


Figure 12a-1 Relays

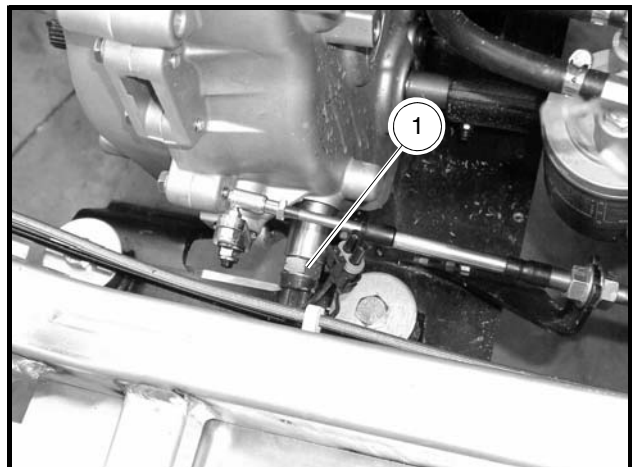


Figure 12a-2 Neutral Switch

Relay Removal

1. Turn the key switch OFF and remove the key. Place the Forward/Reverse handle in NEUTRAL. Chock the wheels.
2. Remove the electrical component cover.
3. Remove the relay from the multi-pin connector.

Relay Installation

1. Insert the relay into the multi-pin connector. **See following NOTE.**

NOTE: *The relay contacts are keyed to ensure that the relay can only be installed in the correct orientation. If the relay is not easy to insert, rotate the relay until the correct contact orientation is obtained.*

NEUTRAL SWITCH

See General Warning, Section 1, Page 1-1.

The neutral switch (1) is located on the transmission housing (**Figure 12a-2, Page 12a-1**).

Testing the Neutral Switch

See Test Procedure 10, Section 11a, Page 11a-24.

Neutral Switch Removal

1. Turn the key switch OFF and remove the key. Place the Forward/Reverse handle in NEUTRAL. Chock the wheels.
2. Disconnect the two-pin connector between the neutral switch and the wire harness.
3. Use a wrench to loosen and remove the neutral switch from the transmission housing.

Neutral Switch Installation

1. Install the neutral switch to the transmission housing. Tighten the hardware to 20.5 ft-lb (27.8 N·m).
2. Connect the two-pin connector between the neutral switch and the wire harness.
3. Connect the battery cables, positive (+) cable first, and tighten the terminals to 12 ft-lb (16 N·m). Coat terminals with Battery Terminal Protector Spray (CCI P/N 1014305).

CARBURETOR SOLENOID

See General Warning, Section 1, Page 1-1.

The carburetor solenoid is located on the bottom of the carburetor.

Testing the Carburetor Solenoid

See Test Procedure 21, Section 11a, Page 11a-30.

Carburetor Solenoid Removal

1. Turn the key switch OFF and remove the key. Place the Forward/Reverse handle in NEUTRAL. Chock the wheels.
2. Disconnect the battery cables as instructed. **See WARNING “To avoid unintentionally...” in General Warning, Section 1, Page 1-2.**
3. Remove the intake hose from the carburetor intake adapter and remove the carburetor.

4. Disconnect the 18-gauge yellow wire (w39) from the carburetor solenoid bullet connector (**Figure 12a-3, Page 12a-3**).
5. Remove the solenoid from the carburetor. **See Section 20.**



Figure 12a-3 Carburetor Coil Bullet Connector

Carburetor Solenoid Installation

1. Install the carburetor solenoid on the carburetor and install the carburetor. **See Section 20.**
2. Install the intake hose on the carburetor intake adapter.
3. Connect the 18-gauge yellow wire (w39) from the carburetor solenoid to the wire harness (**Figure 12a-3, Page 12a-3**).
4. Connect the battery cables, positive (+) cable first, and tighten the terminals to 12 ft-lb (16 N·m). Coat terminals with Battery Terminal Protector Spray (CCI P/N 1014305).

VOLTAGE REGULATOR

See General Warning, Section 1, Page 1-1.

Testing the Voltage Regulator

See Test Procedure 14, Section 11a, Page 11a-26.

Voltage Regulator Removal

1. Turn the key switch OFF and remove the key. Place the Forward/Reverse handle in NEUTRAL. Chock the wheels.
2. Disconnect the battery cables as instructed. **See WARNING “To avoid unintentionally...” in General Warning, Section 1, Page 1-2.**
3. Disconnect the multi-pin connector between the voltage regulator and the wire harness (**Figure 12a-4, Page 12a-4**).
4. Remove the voltage regulator mounting screws and remove the voltage regulator.

Voltage Regulator Installation

1. Position the voltage regulator on the mounting plate and install the mounting screws. Tighten screws to 9.0 ft-lb (12.2 N·m) (**Figure 12a-4, Page 12a-4**).

2. Connect the multi-pin connector from the voltage regulator to the wire harness.
3. Connect the battery cables, positive (+) cable first, and tighten the terminals to 12 ft-lb (16 N·m). Coat terminals with Battery Terminal Protector Spray (CCI P/N 1014305).
4. With the Forward/Reverse handle in NEUTRAL, start the engine and check the regulator for proper functioning as described in the voltage regulator test procedure. **See Test Procedure 14, Section 11a, Page 11a-26.**



Figure 12a-4 Voltage Regulator

INSTRUMENT PANEL

See General Warning, Section 1, Page 1-1.

Instrument Panel Removal

1. Turn the key switch OFF and remove the key. Place the Forward/Reverse handle in NEUTRAL. Chock the wheels.
2. Disconnect the battery cables as instructed. **See WARNING “To avoid unintentionally starting...” in General Warning, Section 1, Page 1-2.**
3. Loosen the Tuflok screws, but do not remove screws completely, as shown in Detail A (**Figure 12a-5, Page 12a-5**).
4. Remove Tuflok screws from instrument panel as shown in Detail B.
5. Pull forward on top of the instrument panel.
6. If required, disconnect the electrical components.
7. If required, remove the choke cable. **See Choke Cable Removal on page 13a-27.**