

1. IGNITION SWITCH POWER

The ignition switch located in the top center section of the main harness is connected to the engine harness through the connector pin No. 1 and wiring 5BW (black with white stripes). Also, it is connected to the "S" terminal of the start motor through the first main fuse (60 A, the second main fuse supplies the cabin with power through the power relay) and to the positive (+) terminal of the battery through the battery cable. Therefore, the wiring 5BW of the ignition switch receives (+) power.

2. IGNITION SWITCH IN START POSITION

As soon as the ignition switch is turned to the "START" position, (+) power supplied to the wiring 5BW is supplied to the clutch safety switch through the wiring 0,5RY (red with yellow stripes). This switch is a N.O. switch that is connected only when the clutch pedal is depressed.

3. CLUTCH SWITCH

This switch is located next to the brake release switch in the right upper section in the circuit diagram. It is to allow the start motor to run only with the clutch pedal depressed to ensure safe engine starting.

4. START RELAY

This relay is in the far right side in the relay box in center of the circuit diagram. The wiring 0,5GY of the circuit on the coil side is connected to the fuse No. 9, wiring 1,25WR and main relay in the engine harness as shown in the circuit diagram. The main relay is controlled by the ECU. The wiring 0,5YB is directly connected to the ECU of the engine harness. Therefore, the start relay is controlled by the ECU which receives a signal from the ignition switch, not by the ignition switch itself.

As the start relay coil is energized, main power of the 5P relay is connected so this relay is supplied with battery power through the wiring 2BW. Then, it supplies power to the start motor magnet terminal through the wiring 2BY and terminal No. 34 of the engine harness in order to run the start motor.

5. IGNITION SWITCH IN ON POSITION

When the ignition switch is turned to the ON position, (+) power supplied to the wiring 5BW is supplied to the fuse box in the upper right section of the circuit diagram through the wiring 5WR. Refer to the circuit diagram for electric systems that receive this "ignition ON" power as well as their corresponding fuse and fuse capacity.

6. FUSE BOX

The fuses No. 1 to 7 in the fuse box in the upper right section of the circuit diagram receive power only when the ignition switch is in the "ON" position.

Fuse No. 1 (20 A, lamp): it supplies power to the brake switch, brake lamp relay, headlamp low/high beam relay and combination switch.

Fuse No. 2 (10 A relay, horn): it supplies power to the horn and cabin power relay.

Fuse No. 3 (5 A, ECU): it supplies ignition switch ON power to the ECU through the terminal No. 113 (wiring 0,5WR) of the engine harness.

Fuse No. 4 (10 A, turn signal): it supplies power to the hazard warning flasher switch and turn signal lamp switch.

Fuse No. 5 (10 A, independent PTO): it supplies power to the PTO valve (in the middle harness of the main circuit 2) and automatic horizontal balance control power terminal (on the left side in the main harness).

Fuse No. 6 (15 A, work lamp): it supplies power to the corner lamp switch and left trailer connector of the main harness.

Fuse No. 7 (10 A, controller): it supplies power to the cruise switch, FNR neutral switch, brake release switch and various lamps on the instrument cluster.

8. None: it is the power line for the fuse No. 9 and it is connected to the engine harness through the terminal No. 183.