

# ELECTRICAL TESTS AND ADJUSTMENTS

## Relay Test

### Reason:

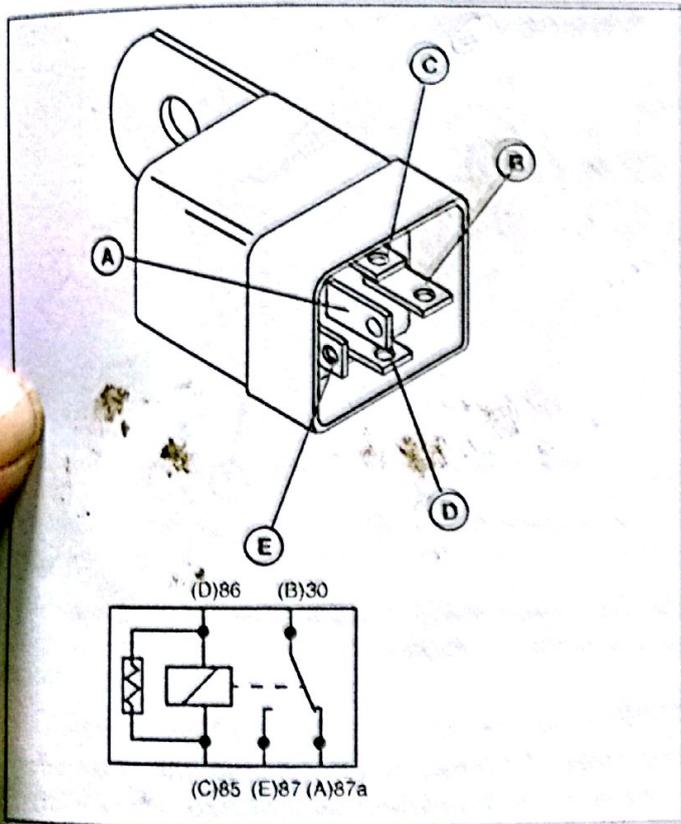
To check relay terminal continuity in the energized and de-energized condition.

### Equipment:

- Ohmmeter or continuity tester

### Procedure:

1. Park machine on level surface.
2. Engage park brake.
3. Turn key switch OFF.
4. Disconnect relay connector.



## Key Switch Test

### Reason:

To determine proper operation of key switch.

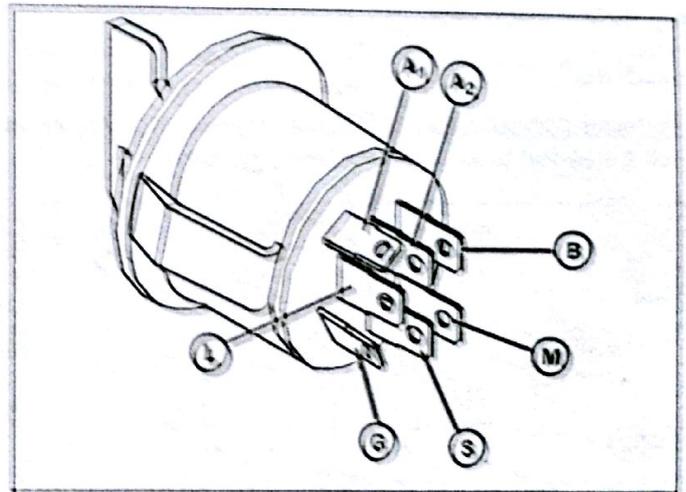
### Equipment:

- Ohmmeter

### Test Conditions:

- Set ohmmeter for 1X ohms scale.
- Remove connector from back of key switch.

### Procedure:



1. Connect meter leads to pairs of switch posts and compare to specifications.
2. For ignition circuit, turn key switch from OFF to RUN position.
3. For starting circuit, turn key switch from RUN to START position.

### Results:

- If key switch does not pass all tests, replace switch.

### Specifications:

#### Switch in OFF (Stop)

..... continuity between M, G, and A1

#### Switch in RUN 1 (With Lights)

..... continuity between B and A1

..... continuity between L and A2

#### Switch in RUN 2 (Without Lights)

..... continuity between B and A1

#### Switch in START

..... continuity between B, S, and A1

5. Check terminal continuity using an ohmmeter or continuity tester.

- There should be continuity between terminals (A) and (B), and between terminals (C) and (D).
- There should NOT be continuity between terminals (E) and (B).

6. Connect a jumper wire from battery positive (+) terminal to relay terminal (C). Connect a jumper wire from relay terminal (D) and ground (-).

- There should be continuity between terminals (E) and (B).
- If continuity is NOT correct, replace relay.