

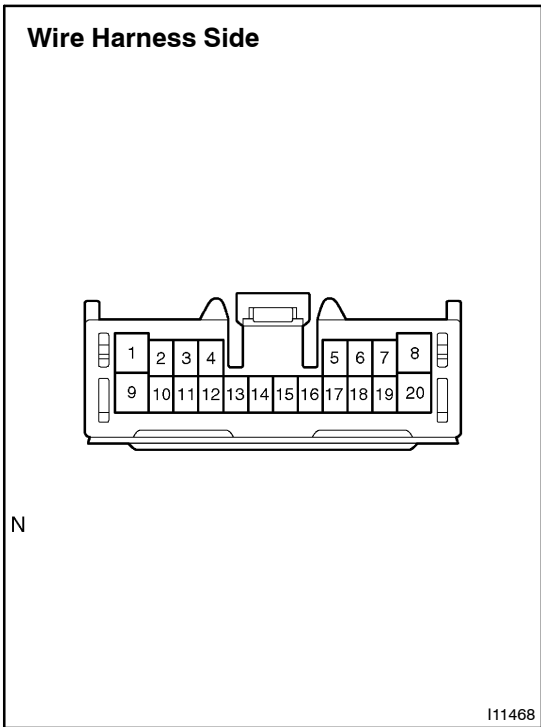
INSPECTION

1. INSPECT DIAGNOSIS CODE IS OUTPUT

Check that the master switch assembly automatic light flash under the condition of KEY off operation (for 45 secs. after the starter switch has been turned from ON to OFF with the driver's door open.)

HINT:

- **Limit switch malfunction:**
 Even though the glass goes down from the fully closed position, the power window regulator switch assembly does not detect a change in limit switch signal within 2.0 secs. after the operation has started.
- **Pulse sensor malfunction:**
 Even though the glass goes down from the fully closed position, the power window regulator switch assembly does not detect a change in pulse switch signal within 2.0 secs. after the operation has started.



2. INSPECT POWER WINDOW MASTER SWITCH CIRCUIT

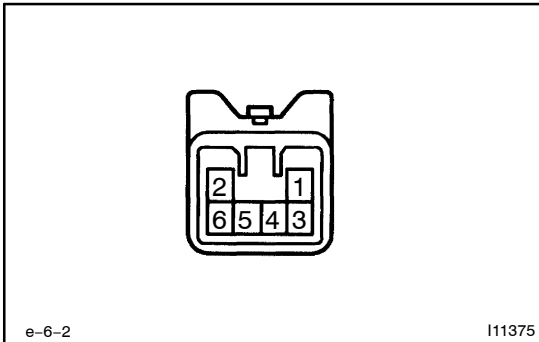
Connector disconnected:

Disconnect the connectors from the switch and inspect connector on the wire harness side.

Tester connection	Condition	Specified condition
9 - Ground	Constant	Continuity
1, 5 - Ground	Constant	Battery voltage
2, 4 - Ground	Ignition switch LOCK	No voltage
2, 4 - Ground	Ignition switch ACC or ON	Battery voltage

If circuit is not as specified, replace the switch.

3. INSPECT POWER WINDOW MASTER SWITCH CIRCUIT (See page DI-598)



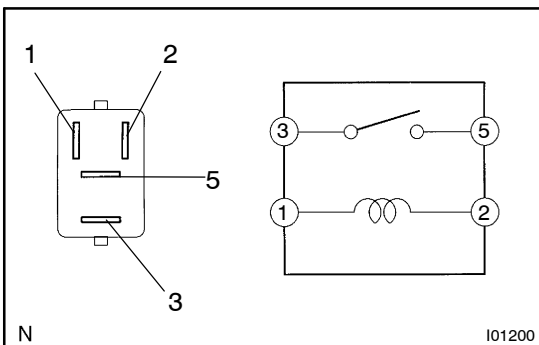
4. INSPECT POWER WINDOW SWITCH CONTINUITY

Connect the positive (+) lead from the battery to terminal 3 and the negative (-) lead to terminal 6.

Switch position	Tester connection	Specified condition
UP	2 - 3 4 - 5	Continuity
OFF	-	No continuity
DOWN	2 - 4 3 - 5	Continuity

If continuity is not as specified, replace the switch.

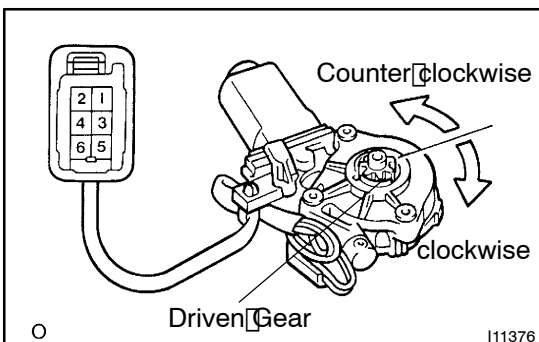
5. INSPECT POWER WINDOW SWITCH CIRCUIT (See page DI-602)



6. INSPECT POWER MAIN RELAY CONTINUITY

Condition	Tester connection	Specified condition
Constant	1 - 2	Continuity
Apply B+ between terminals 1 and 2.	3 - 5	Continuity

If continuity is not as specified, replace the relay.

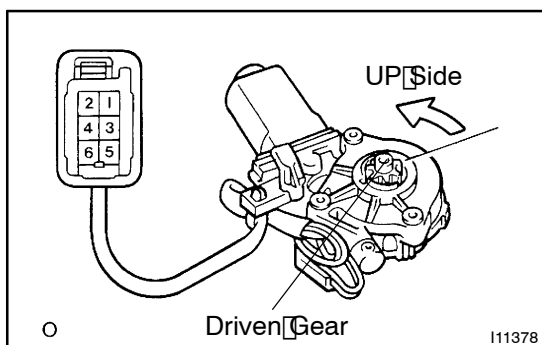
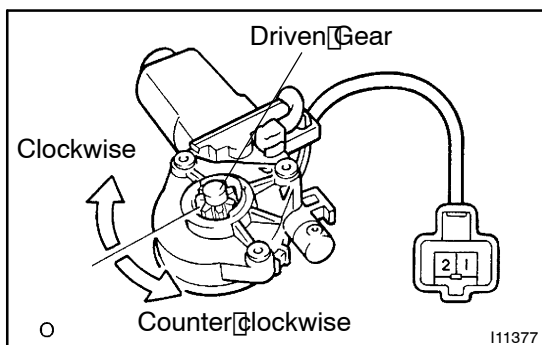


7. Driver's door:

INSPECT POWER WINDOW MOTOR OPERATION

- Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, and check that the motor turns clockwise.
- Reverse the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.



8. Front passenger's door and rear door: INSPECT POWER WINDOW MOTOR OPERATION

- Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, and check that the motor turns clockwise.
- Reverse the polarity, check that the motor turns counter-clockwise.

If operation is not as specified, replace the motor.

9. INSPECT POWER WINDOW MOTOR CIRCUIT (See page DI-598)

10. INSPECT POWER WINDOW MOTOR PTC OPERATION

(): LHD models

- Disconnect the connector from the master switch.
- Connect the positive (+) lead from the battery to terminal 2 (1) and the negative (-) lead to terminal 1 (2) on the wire harness side connector and raise the window to full closed position.
- Continue to apply voltage, check that there is a PTC operation noise within approximately 4 to 90 seconds.
- Reverse the polarity, check that the window begins to descend within approximately 60 seconds.

If operation is not as specified, replace the motor.

11. INSPECT JAM PROTECTION FUNCTION

NOTICE:

Never, ever be caught any part of your body when checking.

HINT:

In case of performing resetting of the limit switch, do checking after repeating up and down of the glass with automatic operation.

- Confirmation of AUTO up operation:
Confirm that the window will be fully close with AUTO up operation.
- Checking of the operation of the jam protection function:
 - Move up the window with AUTO up operation and check that the window will go down when it touches the handle of the hammer studded.
 - Confirm that the window will then stop going down about 200 mm.

HINT:

In case of removing the glass, glass guide, regulator and etc. be sure to perform checking of the jam protection function.

If the jam protection is not functioned properly, adjust power window motor reset wwtic and pluse switch.