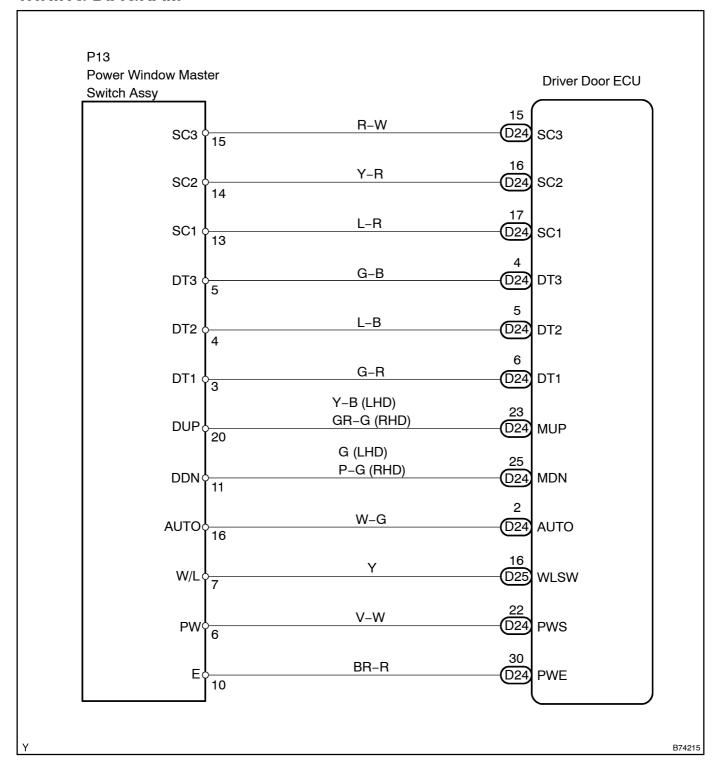
POWER WINDOW REGULATOR MASTER SWITCH CIRCUIT (DRIV-ER'S DOOR)

CIRCUIT DESCRIPTION

This circuit transmits signals from the power window master switch assy to the driver door ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 | CHECK[FOR[DTCS

(a) Operate any of the switches on the power window master witch assy. Check of any DTC is output.

RESULT:

Result	Proceed [io
DTC[js[output	Α
No[DTC[]s[output	В

A | PROCEED TO DTC CHART (See page 05-1998)

В

2 READ VALUE OF INTELLIGENT TESTER II

- (a) Connect the intelligent tester II to the DLC3.
- (b) Turn the ignition switch ON and press the intelligent tester II main switch ON.
- (c) Select the items below in the DATA LIST and read the displays on the intelligent tester II.

DRIVER DOOR ECU:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
Power window regulator master switch	Not operated → Operated	ON: Operated OFF: Not operated	-

OK: "ON" (each switch is operated) appears on the screen.

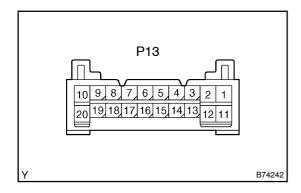
NG Go to step 3

OK

3

PROCEED TO NEXT CIRCUIT INSPECTION

INSPECT POWER WINDOW REGULATOR MASTER SWITCH ASSY



- (a) Remove the master switch.
- (b) Disconnect the P13 switch connector.
- (c) Measure the resistance and voltage between the terminals of the connector when the switch is operated.

Standard:

Driver switch

Switch Condition	Tester Connection	Specified Condition
AUTO UP	6 – 20 6 – 16	Below 1 Ω
UP	6 – 20	Below 1 Ω
OFF	-	-
DOWN	6 – 11	Below 1 Ω
AUTO DOWN	6 – 11 6 – 16	Below 1 Ω

Passenger switch

Switch Condition	Tester Connection	Specified Condition
AUTO UP	3 – 14 3 – 15	Below 1 Ω
UP	3 – 14	Below 1 Ω
OFF	-	-
DOWN	3 – 13	Below 1 Ω
AUTO DOWN	3 – 13 3 – 15	Below 1 Ω

Rear LH

Switch Condition	Tester Connection	Specified Condition
AUTO UP	5 – 14 5 – 15	Below 1 Ω
UP	5 – 14	Below 1 Ω
OFF	-	-
DOWN	5 – 13	Below 1 Ω
AUTO DOWN	5 – 13 5 – 15	Below 1 Ω

Rear RH

Switch Condition	Tester Connection	Specified Condition
AUTO UP	4 – 14 4 – 15	Below 1 Ω
UP	4 – 14	Below 1 Ω
OFF	-	-
DOWN	4 – 13	Below 1 Ω
AUTO DOWN	4 – 13 4 – 15	Below 1 Ω

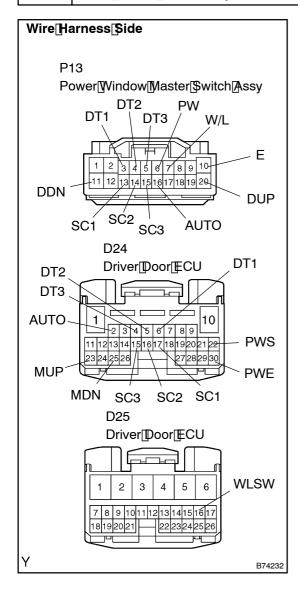
Window lock switch

Switch Condition	Tester Connection	Specified Condition
NORMAL	Battery positive (+) → Terminal 6 Battery negative (-) → Terminal 10	All 4 switches illuminate
LOCK	Battery positive (+) → Terminal 6 Battery negative (-) → Terminal 10	Driver door window switch illuminate

NG

REPLACE POWER WINDOW REGULATOR MASTER SWITCH ASSY

4 CHECK[WIRE[HARNESS[[DOOR[LOCK[CONTROL[\$WITCH[ASSY - [DRIVER[DOOR[ECU AND BODY[GROUND]



- (a) Disconnect he P13 witch connector.
- (b) Disconnect he D24 and D25 ECU connectors.
- (c) Measure[the[jesistance] of [the[wire[harness] side onnectors.

Standard:

Tester[Connection	Specified[Condition
P13-6[[PW) -[D24-22[[PWS)	Below[][Ω
P13-10((E) -(D24-30((PWE)	Below[][Ω
P13-16[[AUTO] -[[D24-2[[AUTO]	Below[][Ω
P13-20[[DUP) -[D24-23[[MUP)	Below[][Ω
P13-11[(DDN) -[D24-25[(MDN)	Below[] [Ω
P13-3[[DT1) -[[D24-6[[DT1)	Below[] [Ω
P13-4[[DT2] -[[D24-5[[DT2]	Below[][Ω
P13-5[[DT3) -[[D24-4[[DT3)	Below[] [Ω
P13-13[[SC1) -[[D24-17[[SC1)	Below[] [Ω
P13-14[[SC2) -[D24-16[[SC2)	Below[] [Ω
P13-15[[SC3) -[D24-15[[SC3)	Below[] [Ω
P13-7[[W/L) -[D25-16[[WLSW)	Below[] [Ω
P13-6[[PW] -[Body[ground	10[k̞ᡌ̞̞̞িd̞r[ħigher
P13-10(E) - Body ground	10[k̞ᡌ̞̞̞িd̞r[ħigher
P13-16[[AUTO] -[Body[ground	10[k[♪[ðr[ħigher
P13-20[[DUP] -[Body[ground	10[k͡ᡌᢩᠪr[ħigher
P13-11[(DDN) -[Body[ground	10[k[♪[ðr[ħigher
P13-3[[DT1] -[Body[ground	10[k̞ᡌ̞̞̞ၯႃၛigher
P13-4[[DT2] -[Body[ground	10[k̞ᡌ̞̞̞ၯႃၛigher
P13-5[[DT3] -[Body[ground	10[k[♪[ðr[ħigher
P13-13[[SC1) -[Body[ground	10[k[2][þr[]higher
P13-14[[SC2) -[Body[ground	10[k[♪[ðr[ħigher
P13-15[[SC3) -[Body[ground	10[k[♪[ðr[ħigher
P13-7[[W/L] -[Body[ground	10 k Ω or higher

NG

REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-1985)