

DIAGNOSTIC TROUBLE CODE CHART

If a DTC is displayed, check the circuit for that code listed in the table below. For the details of each code, refer to the "See page" in the DTC chart.

POWER TILT AND POWER TELESCOPIC STEERING COLUMN SYSTEM

DTC No.	Detection Item	Trouble Area	See page
B2602	Key Unlock Warning Switch Circuit Malfunction	1. Un-lock warning switch assembly 2. Un-lock warning switch circuit 3. Multiplex network body ECU 4. Multiplex tilt and telescopic ECU	SR-16
B2603	Tilt and Telescopic Manual Switch Circuit Malfunction	1. Tilt and telescopic manual switch 2. Tilt and telescopic manual switch circuit 3. Multiplex tilt and telescopic ECU	SR-20
B2610	Tilt Position Sensor or Tilt Motor Circuit Malfunction	1. Tilt steering gear assembly w/ motor 2. Actuator power source circuit 3. Tilt position sensor or tilt motor circuit 4. Multiplex tilt and telescopic ECU	SR-23
B2611	Telescopic Position Sensor or Telescopic Motor Circuit Malfunction	1. Tilt steering gear assembly w/ motor 2. Actuator power source circuit 3. Telescopic position sensor or telescopic motor circuit 4. Multiplex tilt and telescopic ECU	SR-28
B2620	ECU Power Source Circuit Malfunction	1. Battery 2. ECU power source circuit 3. Multiplex tilt and telescopic ECU	SR-32
B2621	Communication Interruption	1. Multiplex communication system 2. Multiplex network body ECU 3. Power seat ECU 4. Multiplex tilt and telescopic ECU	SR-34

SR

DTC	B2602	Key Unlock Warning Switch Circuit Malfunction
------------	--------------	------------------------------------------------------

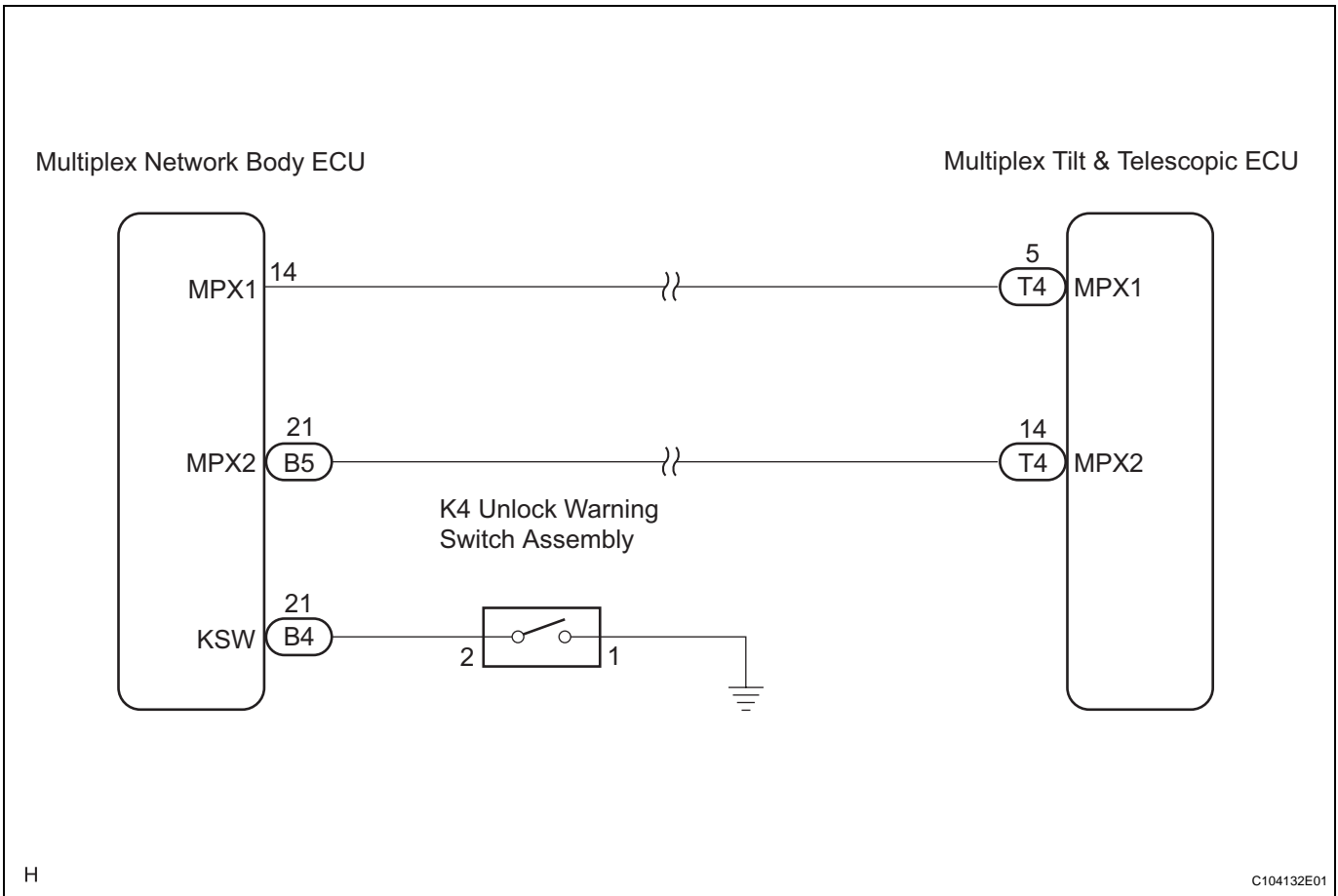
DESCRIPTION

A signal (ON or OFF) is sent from the driver side J/B ECU to the multiplex tilt and telescopic ECU via the communication bus when the ignition key is inserted into the key cylinder. The multiplex tilt and telescopic ECU uses this signal to operate the auto away or auto return function.

DTC No.	Detection Item	Trouble Area
B2602	A signal (OFF) is sent to the multiplex tilt and telescopic ECU when the ignition switch is turned to the ON position.	<ul style="list-style-type: none"> Unlock warning switch assembly Unlock warning switch circuit Multiplex network body ECU Multiplex tilt and telescopic ECU

SR

WIRING DIAGRAM



1	CHECK OTHER DTC OUTPUT
----------	-------------------------------

HINT:

The power tilt and telescopic steering column system uses the multiplex communication system, so check its diagnostic system before proceeding to troubleshooting.

- (a) Check if the power tilt and telescopic steering column system DTC B2621 is output.

Result

DTC Condition	Proceed to
No output	A
B2621 is output	B

HINT:

- If DTC B2621 besides B2602 is output, perform troubleshooting for this DTC first.
- DTC B2621 indicates a communication interruption.

SR

B → **REPAIR CIRCUIT INDICATED BY OUTPUT CODE**

A

2 READ VALUE OF INTELLIGENT TESTER

- Connect the intelligent tester to the DLC3.
- Turn the ignition switch to the ON position and turn the intelligent tester on.
- Select "KEY SW (MPX)" from the Data List.
- Check the communication state on the tester screen.

TILT & TELESCOPIC

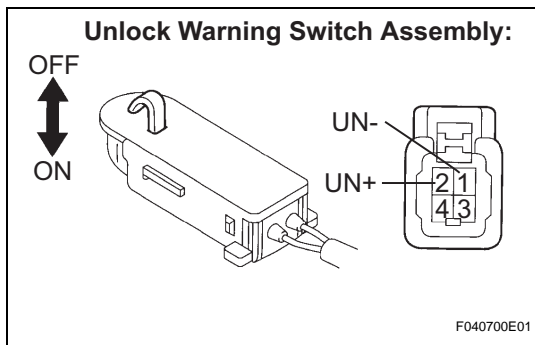
Item	Measurement Item/Range (Display)	Normal Condition
KEY SW (MPX)	Communication state of unlock warning switch/ON or OFF	ON: Communication is normal OFF: Communication is interrupted

OK:
"ON" is displayed.

OK → **REPLACE MULTIPLEX TILT AND TELESCOPIC ECU**

NG

3 INSPECT UNLOCK WARNING SWITCH ASSEMBLY



- Disconnect the K4 connector from the unlock warning switch assembly.
- Measure the resistance according to the value(s) in the table below.

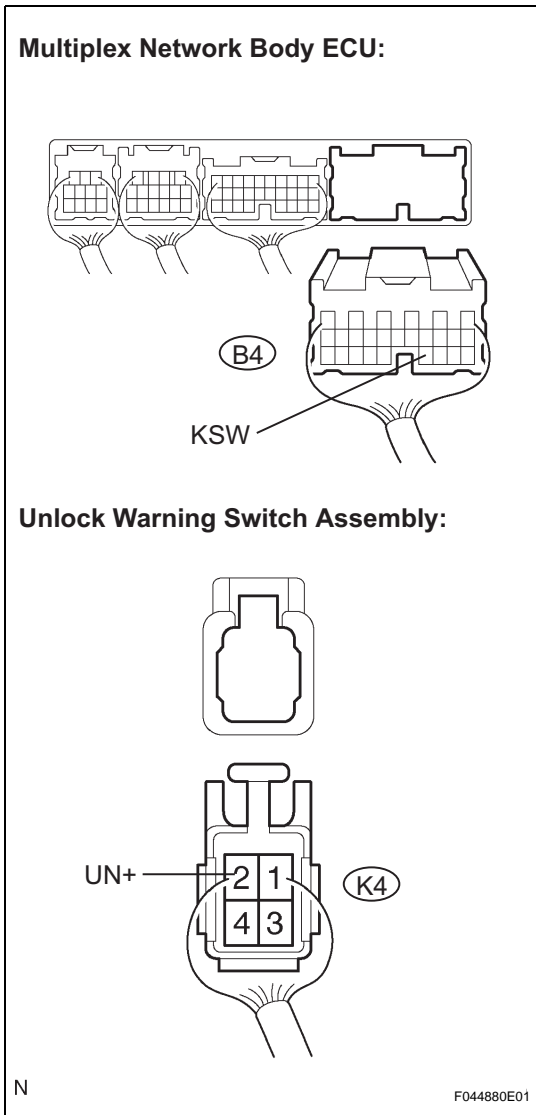
Resistance

Tester Connection (Terminal No.)	Condition	Specified Condition
UN+ (2) - UN- (1)	Unlock warning switch OFF (Ignition key is removed)	10 kΩ or higher
UN+ (2) - UN- (1)	Unlock warning switch ON (Ignition key is inserted)	Below 1 Ω

NG → **REPLACE UNLOCK WARNING SWITCH ASSEMBLY**

OK

4 CHECK HARNESS AND CONNECTOR (BETWEEN BODY ECU AND UNLOCK WARNING SWITCH ASSEMBLY)



- (a) Disconnect the B4 connector from the multiplex network body ECU.
- (b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester Connection (Terminal No.)	Condition	Specified Condition
KSW (B4-21) - UN+ (K4-2)	Always	Below 1 Ω
KSW (B4-21) - Body ground	Always	10 kΩ or higher

NG

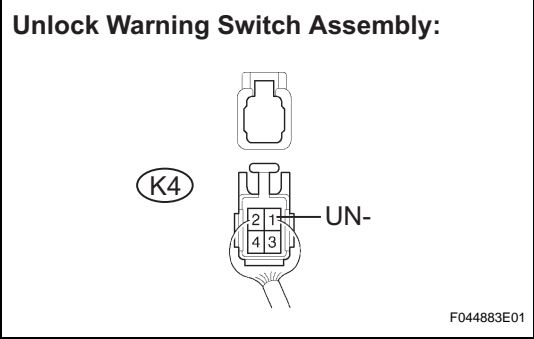
REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

SR

5 CHECK HARNESS AND CONNECTOR (BETWEEN UNLOCK WARNING SWITCH ASSEMBLY AND BODY GROUND)

SR



(a) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection (Terminal No.)	Condition	Specified value
UN- (K4-1) - Body ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE MULTIPLEX TILT AND TELESCOPIC ECU