DTC	B2602	KEY UNLOCK WARNING SWITCH CIRCUIT MALFUNCTION	
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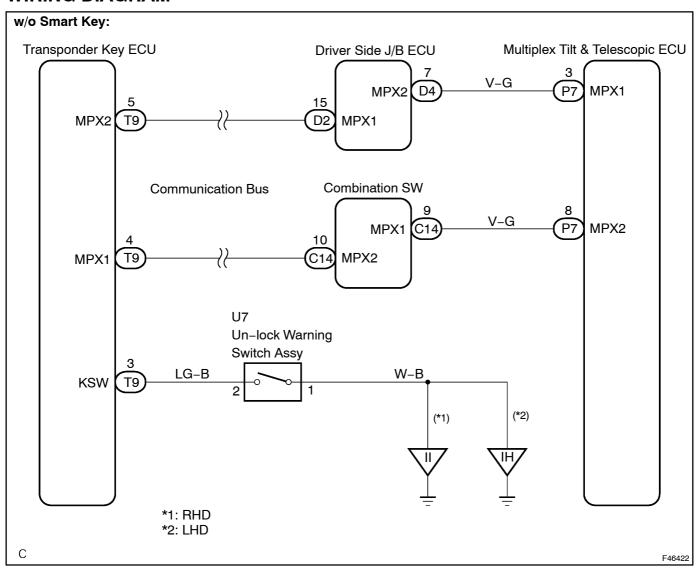
CIRCUIT DESCRIPTION

A signal (ON or OFF) is sent from the transponder key ECU*1 (steering lock ECU*2) to the multiplex tilt & telescopic ECU via the communication bus when the ignition key is inserted into the key cylinder. The multiplex tilt & telescopic ECU uses this signal to operate the auto away or auto return function.

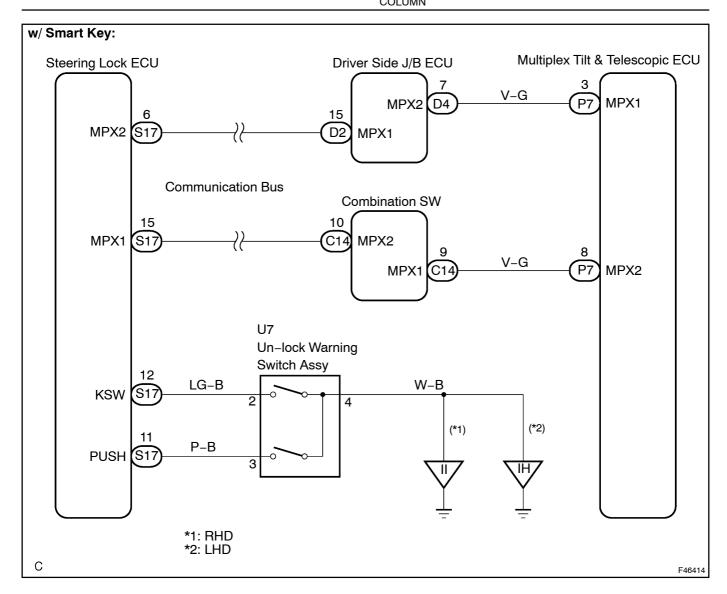
DTC No.	Detection Item	Trouble Area
B2602	A signal (OFF) is sent to the multiplex tilt & telescopic ECU when the ignition switch is turned to the ON position.	Un-lock warning switch assy Un-lock warning switch circuit Transponder key ECU*1 (Steering lock ECU*2) Multiplex tilt & telescopic ECU

^{*1:} w/o Smart key

WIRING DIAGRAM



^{*2:} w/ Smart key



INSPECTION PROCEDURE

1 | READ[VALUE[ON[INTELLIGENT[TESTER[II

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position and turn the intelligent tester on.
- (c) Select Key Switch/MPX" from he DATA LIST.
- (d) Check the signal communication state of the un-lock varning witch on the tester screen.

ltem	Measurement <u>∏</u> tem/ Range <u>[</u> [Display)	Normal Condition	Diagnostic[Note
Key[Switch/MPX	Communication[state[of[]un-lock warning[switch/ON[or[DFF	ON:[Communication[s]normal OFF:[Communication[s]nter- rupted	-

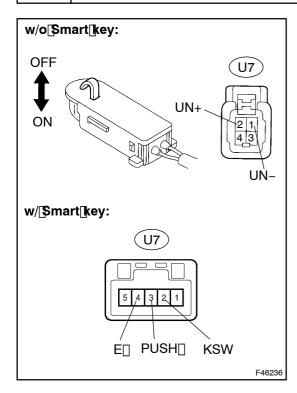
OK: []'ON" []s [displayed.



REPLACE | MULTIPLEX | TILT | & | TELESCOPIC ECU | SEE | PAGE | 50-26)

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2 | INSPECT_UN-LOCK_WARNING_SWITCH_ASSY



- (a) Disconnect the un-lock warning witch assy connector.
- (b) Measure the resistance according to the value (s) in the table below.

Standard:

w/o[\$mart[key:

Tester[Connection	Condition	Specified Condition
U7-2[[UN+) - U7-1[[UN-)	Un-lock[warning[switch OFF (lgnition[key[]s[]emoved)	10 <u>ι</u> k <u>ው</u> (
U7–2[[UN+) – U7–1[[UN–)	Un-lock[warning[switch ON (Ignition[key[]s[]nserted)	Below[] [<u>Ω</u>

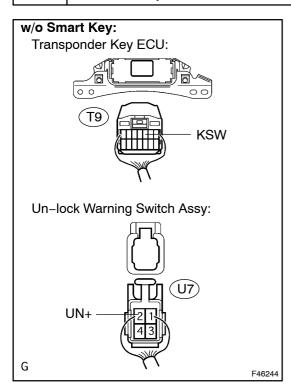
w/[\$mart[key:

Tester@connection	Condition	Specified Condition
U7-2[[KSW] -[]J7-4[[E]	Un-lock[warning[switch OFF (Ignition[key[is[jemoved)	10[k͡Ω[ֆr[ḫigher
U7-2[[KSW] -[]J7-4[[E]	Un-lock[warning[switch ON (lgnition[key[si]nserted)	Below[][Ω
U7-3[[PUSH] -[]J7-4[[E]	Un-lock[warning[switch OFF (Push[switch[s[DFF)	10[k͡Ω[ֆr[ḫigher
U7-3[[PUSH] -[J7-4[[E]	Un_lock[warning[switch ON (Push[switch[]s[ON)	Below 1 Ω

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REPLACE UN-LOCK WARNING SWITCH ASSY (SEE[PAGE 19-6)

CHECK HARNESS AND CONNECTOR (TRANSPONDER KEY ECU (STEERING LOCK ECU) – UN-LOCK WARNING SWITCH ASSY)



3

(a) w/o Smart key:

Disconnect the transponder key ECU connector.

- (b) w/ Smart key:
 - Disconnect the steering lock ECU connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard:

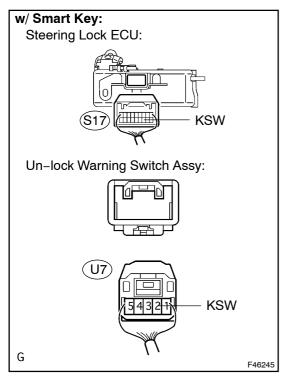
w/o Smart key:

Tester Connection	Condition	Specified Condition
T9-3 (KSW) - U7-2 (UN+)	Always	Below 1 Ω
T9–3 (KSW) – Body ground	Always	10 kΩ or higher

w/ Smart key:

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Tester Connection	Condition	Specified Condition
S17-12 (KSW) - U7-2 (KSW)	Always	Below 1 Ω
S17–12 (KSW) – Body ground	Always	10 kΩ or higher

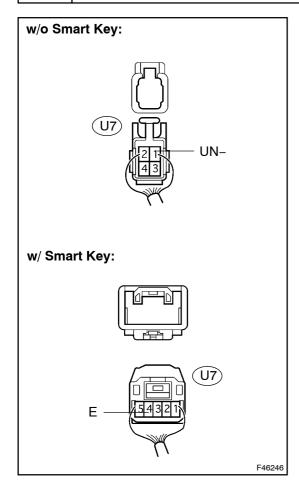


REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4

CHECK HARNESS AND CONNECTOR(UN-LOCK WARNING SWITCH ASSY - BODY GROUND)



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

Standard:

w/o Smart key:

Tester Connection	Condition	Specified Condition
U7-1 (UN-) -	Δίνωνο	Below 1 Ω
Body ground	Always	

w/ Smart key:

Tester Connection	Condition	Specified Condition
U7-4 (E) -	Always	Below 1 Ω
Body ground	Aiways	

NG REPAIR OR REPLACE HARNESS OR CONNECTOR



REPLACE TRANSPONDER KEY ECU OR STEERING LOCK ECU

HINT:

w/o Smart key: Transponder key ECU w/ Smart key: Steering lock ECU