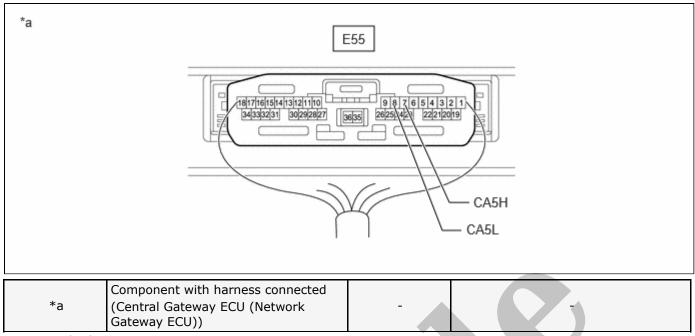


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Standard Resistance:



<u>Click Location & Routing(E55)</u> <u>Click Connector(E55)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E55-7 (CA5H) - Positive (+) battery terminal	Cable disconnected from negative (-) battery	6 k Ω or higher
E55-8 (CA5L) - Positive (+) battery terminal	terminal	O KSZ OF HIIGHE

NG GO TO STEP 32



4. CHECK FOR SHORT TO GND IN CAN BUS WIRE

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

NG GO TO STEP 13



6. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

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

Standard Resistance:



<u>Click Location & Routing(E130)</u> <u>Click Connector(E130)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-6 (CANH) - Body ground	Cable disconnected from pagative () battery terminal	200 O or higher
E130-12 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

NG GO TO STEP 27



- 7. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR OUTER MIRROR CONTROL ECU ASSEMBLY LH)
- (a) Measure the resistance according to the value(s) in the table below. Standard Resistance:



Click Location & Routing(E130)
Click Connector(E130)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-2 (CANH) - Body ground	Cable discoursed from posetive () better townsing	200 O or higher
E130-8 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

NG GO TO STEP 28



8. CHECK VEHICLE TYPE

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

Standard Resistance:



<u>Click Location & Routing(E130)</u> <u>Click Connector(E130)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-4 (CANH) - Body ground	Cable disconnected from pageting () bettern terminal	200 O ou highou
E130-10 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

NG GO TO STEP 30



- 12. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR CERTIFICATION ECU (SMART KEY ECU ASSEMBLY))
- (a) Measure the resistance according to the value(s) in the table below. Standard Resistance:



<u>Click Location & Routing(E130)</u> <u>Click Connector(E130)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-5 (CANH) - Body ground	Cable disconnected from negative () battery terminal	200 O or higher
E130-11 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

OK REPLACE NO. 4 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 31

- 13. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR NO. 4 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Disconnect the E136 No. 10 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:



<u>Click Location & Routing(E136)</u> <u>Click Connector(E136)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E136-4 (CANH) - Body ground	California di Caranta	200 0
	Cable disconnected from negative (-) battery terminal	200 Ω or higher

Standard Resistance:



<u>Click Location & Routing(E136)</u> <u>Click Connector(E136)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E136-2 (CANH) - Body ground	Cable disconnected from negative () battery terminal	200 O or higher
E136-8 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

NG GO TO STEP 24



- 17. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR OUTER MIRROR CONTROL ECU ASSEMBLY RH)
- (a) Measure the resistance according to the value(s) in the table below. Standard Resistance:



<u>Click Location & Routing(E136)</u> <u>Click Connector(E136)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E136-3 (CANH) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher
E136-9 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 32 Of Higher

NG GO TO STEP 25



- 18. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR BRAKE CONTROL WITH BRACKET RELAY)
- (a) Measure the resistance according to the value(s) in the table below. Standard Resistance:



<u>Click Location & Routing(E136)</u> <u>Click Connector(E136)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E136-6 (CANH) - Body ground	Cable discourse and finance assets of () betterns to making (200 O ay highay
	Cable disconnected from negative (-) battery terminal	200 Ω or higher

21. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 18 GLOBAL CAN JUNCTION CONNECTOR - MULTIPLEX NETWORK DOOR ECU)

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



Click Location & Routing(K84)
Click Connector(K84)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K84-2 (CANH) - Body ground	Cable disconnected from possible () battery terminal	200 O or higher
K84-6 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

OK REPLACE NO. 18 GLOBAL CAN JUNCTION CONNECTOR

NG GO TO STEP 23

- 22. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 18 GLOBAL CAN JUNCTION CONNECTOR MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU))
- (a) Disconnect the E9 main body ECU (multiplex network body ECU) connector.
- (b) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:
 - **EWD INFO**

<u>Click Location & Routing(K84)</u> Click Connector(K84)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K84-1 (CANH) - Body ground	Cable disconnected from pagative () battom, terminal	200 O or higher
K84-5 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	$200~\Omega$ or higher

OK REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)

NG REPAIR OR REPLACE CAN BUS WIRE OR CONNECTOR (NO. 18 GLOBAL CAN JUNCTION CONNECTOR - MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU))

- 23. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 18 GLOBAL CAN JUNCTION CONNECTOR MULTIPLEX NETWORK DOOR ECU)
- (a) Disconnect the U19 multiplex network door ECU connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:



<u>Click Location & Routing(K84)</u> <u>Click Connector(K84)</u>

NG REPAIR OR REPLACE CAN BUS WIRE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - OUTER MIRROR CONTROL ECU ASSEMBLY RH)

26. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - BRAKE CONTROL WITH BRACKET RELAY)

- (a) Disconnect the E52 brake control with bracket relay connector.
- (b) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:

EWD INFO

Click Location & Routing(E136)
Click Connector(E136)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E136-6 (CANH) - Body ground	Cable disconnected from pogative () battery terminal	200 O or higher
E136-12 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	$200~\Omega$ or higher

OK REPLACE BRAKE CONTROL WITH BRACKET RELAY

NG REPAIR OR REPLACE CAN BUS WIRE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - BRAKE CONTROL WITH BRACKET RELAY)

- 27. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))
- (a) Disconnect the E55 central gateway ECU (network gateway ECU) connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:

EWD INFO

Click Location & Routing(E130)
Click Connector(E130)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-6 (CANH) - Body ground	Cable disconnected from positive () battery terminal	200 Ω or higher
E130-12 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	

OK REPLACE CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU)

NG REPAIR OR REPLACE CAN BUS WIRE OR CONNECTOR (NO. 4 GLOBAL CAN JUNCTION CONNECTOR - CENTRAL GATEWAY ECU (NETWORK GATEWAY ECU))

28. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR - OUTER MIRROR CONTROL ECU ASSEMBLY LH)

- (a) Disconnect the G43 outer mirror control ECU assembly LH connector.
- (b) Measure the resistance according to the value(s) in the table below.

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-4 (CANH) - Body ground	Cable disconnected from possible () battery terminal	200 O or higher
E130-10 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

OK REPLACE MULTIPLEX TILT AND TELESCOPIC ECU

NG REPAIR OR REPLACE CAN BUS WIRE OR CONNECTOR (NO. 4 GLOBAL CAN JUNCTION CONNECTOR - MULTIPLEX TILT AND TELESCOPIC ECU)

- 31. CHECK FOR SHORT TO GND IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR CERTIFICATION ECU (SMART KEY ECU ASSEMBLY))
- (a) Disconnect the E89 certification ECU (smart key ECU assembly) connector.
- (b) Measure the resistance according to the value(s) in the table below.

 Standard Resistance:



<u>Click Location & Routing(E130)</u> <u>Click Connector(E130)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-5 (CANH) - Body ground	Cable disconnected from possible () battery terminal	200 O or higher
E130-11 (CANL) - Body ground	Cable disconnected from negative (-) battery terminal	200 Ω or higher

- OK REPLACE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)
- NG REPAIR OR REPLACE CAN BUS WIRE OR CONNECTOR (NO. 4 GLOBAL CAN JUNCTION CONNECTOR CERTIFICATION ECU (SMART KEY ECU ASSEMBLY))
- 32. CHECK FOR SHORT TO B+ IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR)
- (a) Disconnect the E130 No. 4 global CAN junction connector.
- (b) Measure the resistance according to the value(s) in the table below. Standard Resistance:



<u>Click Location & Routing(E130)</u> <u>Click Connector(E130)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-1 (CANH) - Positive (+) battery terminal	Cable disconnected from negative (-) battery	6 kO or higher
E130-7 (CANL) - Positive (+) battery terminal	terminal	6 kΩ or higher

NG GO TO STEP 40

35. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Seat Position Memory System	A
w/o Seat Position Memory System	В

B GO TO STEP 37



36. CHECK FOR SHORT TO B+ IN CAN BUS WIRE (NO. 4 GLOBAL CAN JUNCTION CONNECTOR - POSITION CONTROL ECU ASSEMBLY LH (FOR FRONT SEAT))

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



<u>Click Location & Routing(E130)</u> <u>Click Connector(E130)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E130-3 (CANH) - Positive (+) battery terminal	Cable disconnected from negative (-) battery	6 kO or higher
E130-9 (CANL) - Positive (+) battery terminal	terminal	6 kΩ or higher

NG GO TO STEP 56



37. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Power Tilt and Power Telescopic Steering System	А
w/o Power Tilt and Power Telescopic Steering System	В

B GO TO STEP 39



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

Standard Resistance:



<u>Click Location & Routing(E136)</u> <u>Click Connector(E136)</u>

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E136-4 (CANH) - Positive (+) battery terminal	Cable disconnected from negative (-) battery	6 kO or higher
E136-10 (CANL) - Positive (+) battery terminal	terminal	6 kΩ or higher

NG REPAIR OR REPLACE CAN BUS WIRE OR CONNECTOR (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - NO. 4 GLOBAL CAN JUNCTION CONNECTOR)



CHECK FOR SHORT TO B+ IN CAN BUS WIRE (NO. 10 GLOBAL CAN JUNCTION CONNECTOR - NO. 18 GLOBAL CAN JUNCTION CONNECTOR)

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

Standard Resistance:



Click Location & Routing(E136)
Click Connector(E136)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E136-1 (CANH) - Positive (+) battery terminal E136-7 (CANL) - Positive (+) battery terminal	Cable disconnected from negative (-) battery terminal	6 kΩ or higher

NG GO TO STEP 46



42. CHECK VEHICLE TYPE

(a) Check vehicle type.

RESULT	PROCEED TO
w/ Seat Vibration System	A