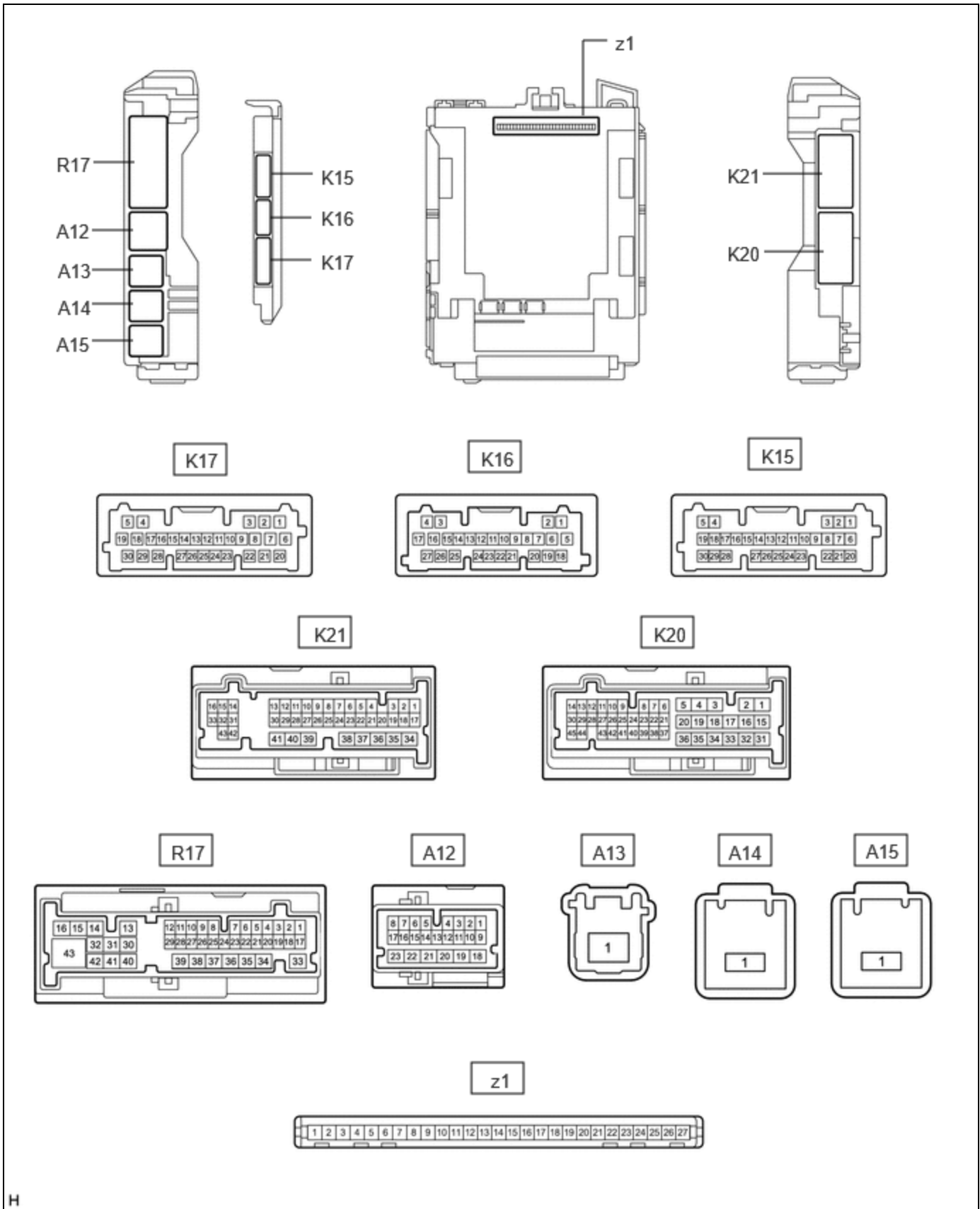


Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000029X7F
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: NETWORKING: LIN COMMUNICATION SYSTEM: TERMINALS OF ECU; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

TERMINALS OF ECU

CHECK POWER DISTRIBUTION BOX ASSEMBLY AND MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



(a) Disconnect the z1 main body ECU (multiplex network body ECU) connector.

Click here [INFO](#)

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

HINT:

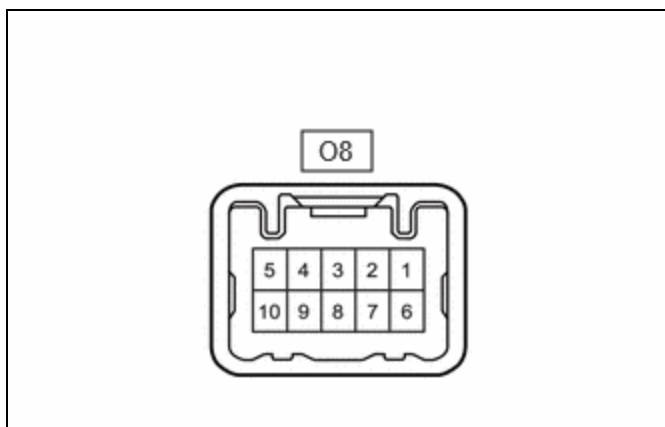
Measure the values on the wire harness side with the connectors disconnected.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
z1-13 (GND1) - Body ground	Ground	Always	Below 1 Ω
z1-14 (GND2) - Body ground	Ground	Always	Below 1 Ω
z1-26 (BECU) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
z1-27 (IGR) - Body ground	IG power supply	Ignition switch ON	11 to 14 V
		Ignition switch off	Below 1 V

(c) Reconnect the z1 main body ECU (multiplex network body ECU) connector.

(d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
R17-17 - Body ground	LIN communication line	Ignition switch ON	Pulse generation



CHECK MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY

(a) Disconnect the O8 multiplex network master switch assembly connector.

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

HINT:

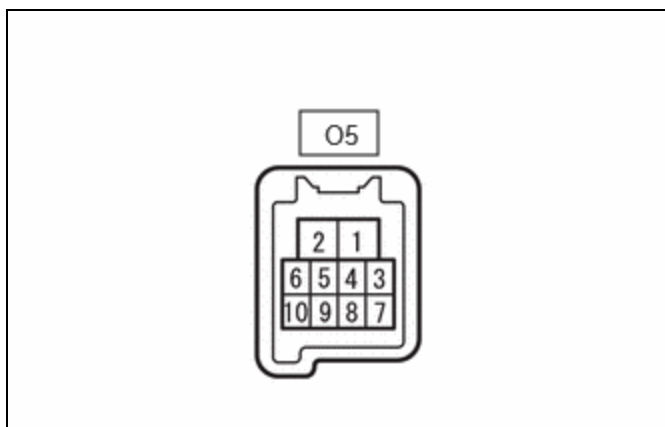
Measure the values on the wire harness side with the connector disconnected.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
O8-1 (B) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
O8-4 (GND) - Body ground	Ground	Always	Below 1 Ω

(c) Reconnect the O8 multiplex network master switch assembly connector.

(d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
O8-3 (LIN1) - Body ground	LIN communication line	Ignition switch ON	Pulse generation
O8-9 (LIN2) - Body ground	LIN communication line	Ignition switch ON	Pulse generation



CHECK POWER WINDOW REGULATOR MOTOR ASSEMBLY LH (DRIVER DOOR)

- (a) Disconnect the O5 power window regulator motor assembly LH (driver door) connector.
 (b) Measure the voltage and resistance according to the value(s) in the table below.

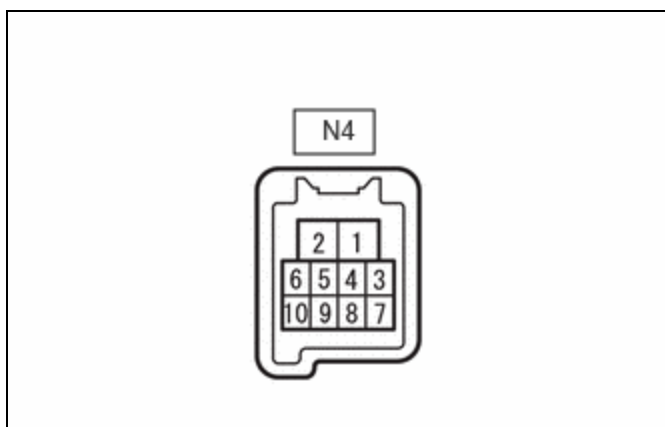
HINT:

Measure the values on the wire harness side with the connector disconnected.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
O5-2 (B) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
O5-1 (GND) - Body ground	Ground	Always	Below 1 Ω

- (c) Reconnect the O5 power window regulator motor assembly LH (driver door) connector.
 (d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
O5-9 (LIN) - Body ground	LIN communication line	Ignition switch ON	Pulse generation



CHECK POWER WINDOW REGULATOR MOTOR ASSEMBLY RH (FRONT PASSENGER DOOR)

- (a) Disconnect the N4 power window regulator motor assembly RH (front passenger door) connector.
 (b) Measure the voltage and resistance according to the value(s) in the table below.

HINT:

Measure the values on the wire harness side with the connector disconnected.

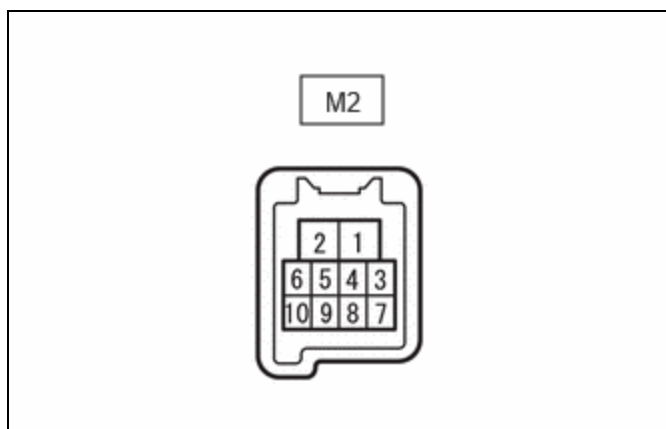
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
N4-2 (B) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
N4-1 (GND) - Body ground	Ground	Always	Below 1 Ω

(c) Reconnect the N4 power window regulator motor assembly RH (front passenger door) connector.

(d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
N4-9 (LIN) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

CHECK POWER WINDOW REGULATOR MOTOR ASSEMBLY LH (REAR LH DOOR)



(a) Disconnect the M2 power window regulator motor assembly LH (rear LH door) connector.

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

HINT:

Measure the values on the wire harness side with the connector disconnected.

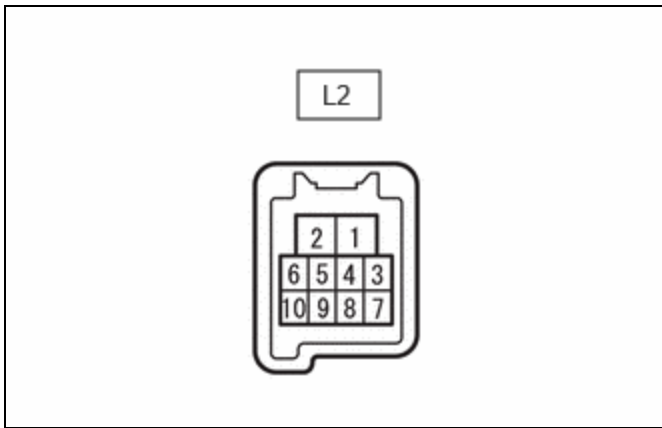
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
M2-2 (B) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
M2-1 (GND) - Body ground	Ground	Always	Below 1 Ω

(c) Reconnect the M2 power window regulator motor assembly LH (rear LH door) connector.

(d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
M2-9 (LIN) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

CHECK POWER WINDOW REGULATOR MOTOR ASSEMBLY RH (REAR RH DOOR)



- (a) Disconnect the L2 power window regulator motor assembly RH (rear RH door) connector.
- (b) Measure the voltage and resistance according to the value(s) in the table below.

HINT:

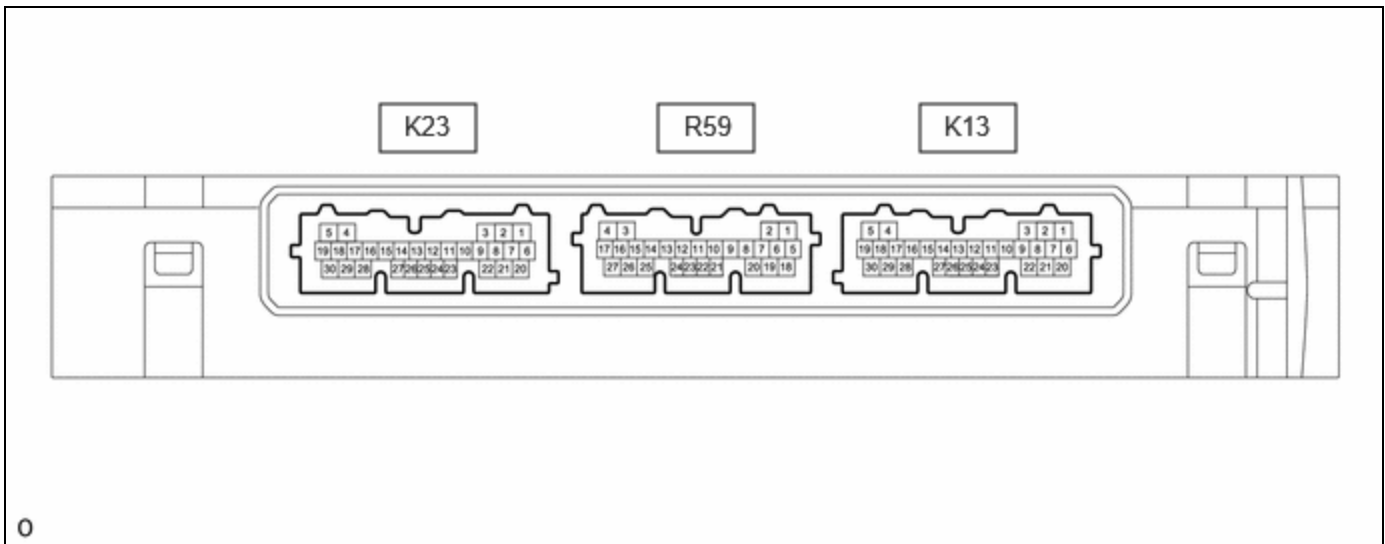
Measure the values on the wire harness side with the connector disconnected.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
L2-2 (B) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
L2-1 (GND) - Body ground	Ground	Always	Below 1 Ω

- (c) Reconnect the L2 power window regulator motor assembly RH (rear RH door) connector.
- (d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
L2-9 (LIN) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

CHECK CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)



- (a) Disconnect the K13 certification ECU (smart key ECU assembly) connector.
- (b) Measure the voltage and resistance according to the value(s) in the table below.

HINT:

Measure the values on the wire harness side with the connector disconnected.

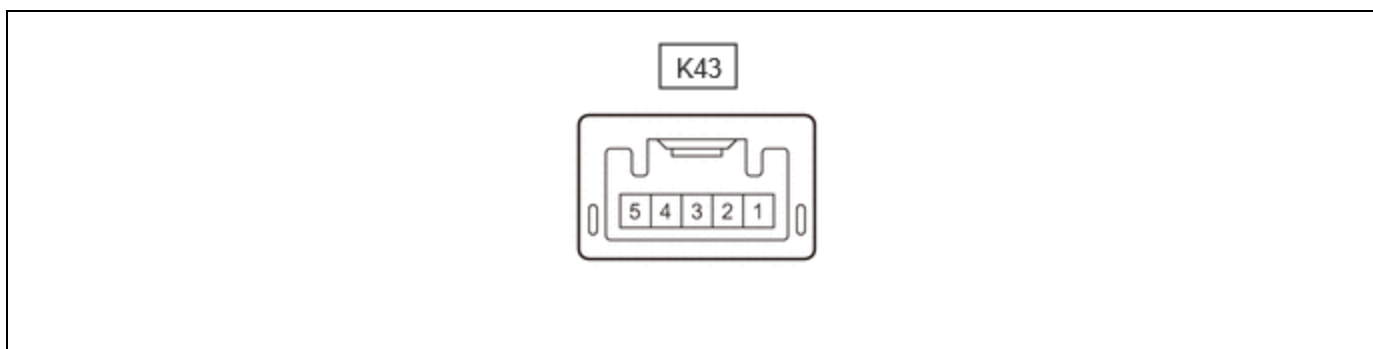
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K13-6 (+B) - Body ground	Auxiliary battery power supply	Ignition switch off	11 to 14 V
K13-29 (E) - Body ground	Ground	Always	Below 1 Ω

(c) Reconnect the K13 certification ECU (smart key ECU assembly) connector.

(d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K13-8 (LIN) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

CHECK ID CODE BOX (IMMOBILISER CODE ECU)



(a) Disconnect the K43 ID code box (immobiliser code ECU) connector.

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

HINT:

Measure the values on the wire harness side with the connector disconnected.

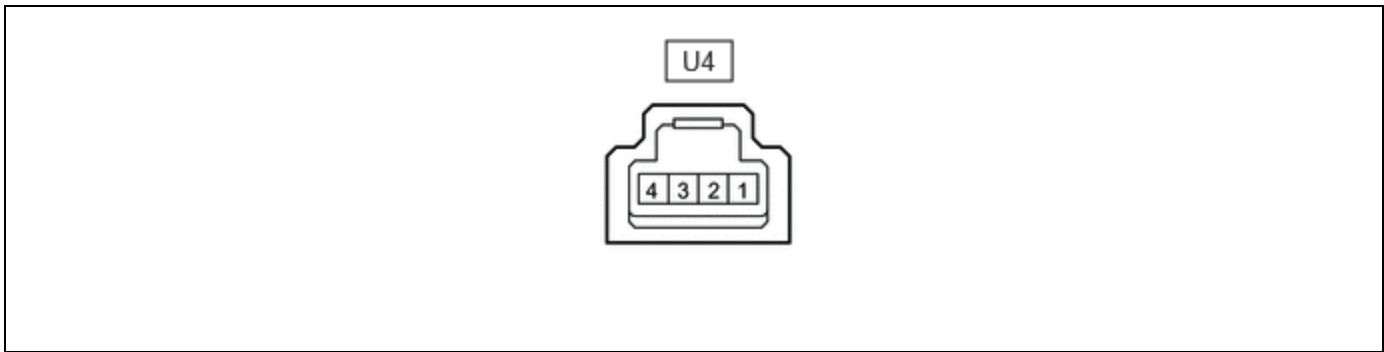
TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K43-5 (GND) - Body ground	Ground	Always	Below 1 Ω
K43-1 (+B) - Body ground	+B power supply	Ignition switch off	11 to 14 V

(c) Reconnect the K43 ID code box (immobiliser code ECU) connector.

(d) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
K43-2 (LIN1) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

CHECK RAIN SENSOR (w/ Auto Wiper System)



(a) Check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
U4-3 (MPX) - Body ground	LIN communication line	Ignition switch ON	Pulse generation

