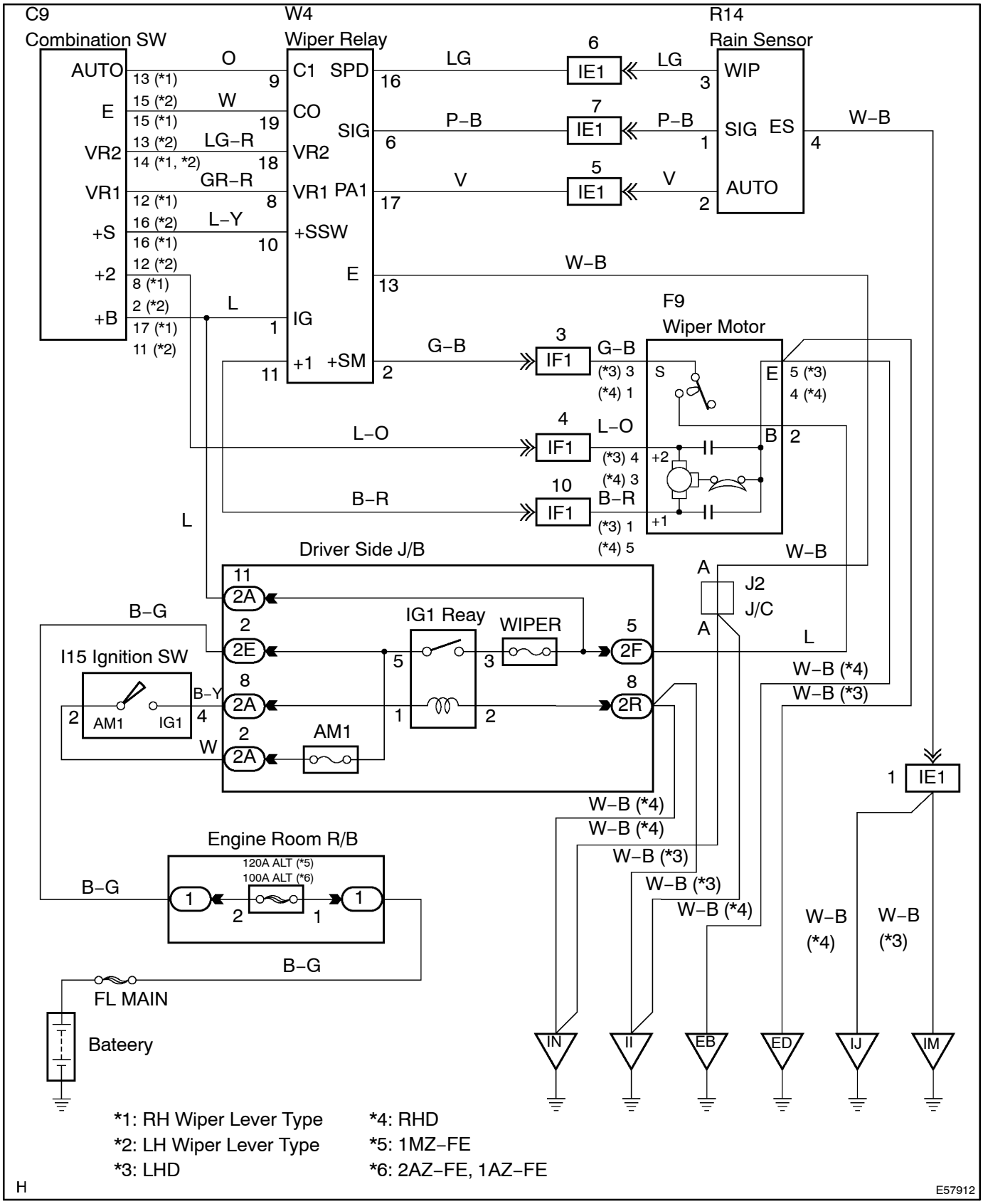
RAIN DROP SENSING FUNCTION DOES NOT OPERATE

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK WINDSHIELD WIPER SWITCH ASSY

(a) Check the continuity between terminals as shown in the chart below.
Standard:

Switch operation	Tester connection	Specified condition
OFF	AUTO – E	No continuity
AUTO	AUTO – E	Continuity

(b) Check the resistance of rain sensor when operating the windshield wiper switch assy.

Sensitivity setting volume	Resistance between VR1 and VR2 (Ω)
” +” side ⇔ ” – ” side	0 ⇔ 3.5

NG → **REPLACE WINDSHIELD WIPER SWITCH ASSY**

OK

2 CHECK HARNESS AND CONNECTOR

(a) Check the continuity between terminals of windshield wiper switch and windshield wiper relay assy as shown in the chart below.

Standard:

RHD:

Item	Tester connection	Specified condition
Windshield wiper switch assy – Windshield wiper relay	16 (VR1) – 8 (VR1)	Continuity
Windshield wiper switch assy – Windshield wiper relay	14 (VR2) – 18 (VR2)	Continuity
Windshield wiper switch assy – Windshield wiper relay	13 (E) – 19 (CO)	Continuity
Windshield wiper switch assy – Windshield wiper relay	15 (AUTO) – 9 (C1)	Continuity

LHD:

Item	Tester connection	Specified condition
Windshield wiper switch assy – Windshield wiper relay	12 (VR1) – 8 (VR1)	Continuity
Windshield wiper switch assy – Windshield wiper relay	14 (VR2) – 18 (VR2)	Continuity
Windshield wiper switch assy – Windshield wiper relay	15 (E) – 19 (CO)	Continuity
Windshield wiper switch assy – Windshield wiper relay	13 (AUTO) – 9 (C1)	Continuity

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

3	CHECK HARNESS AND CONNECTOR

(a) Check the continuity between terminals of windshield wiper relay assy and rain sensor as shown in the chart below.
Standard:

Item	Tester connection	Specified condition
Windshield wiper relay – Rain sensor	16 (SPD) – 3 (WIP)	Continuity
Windshield wiper relay – Rain sensor	6 (SIG) – 1 (SIG)	Continuity
Windshield wiper relay – Rain sensor	17 (PA1) – 2 (AUTO)	Continuity

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

4	CHECK RAIN SENSOR

(a) Disconnect the connector of the rain sensor.
(b) Measure voltage between terminal 1 (SIG) and body ground.
Standard: 8V

NG → **REPLACE WINDSHIELD WIPER RELAY ASSY**

OK

5	CHECK RAIN SENSOR

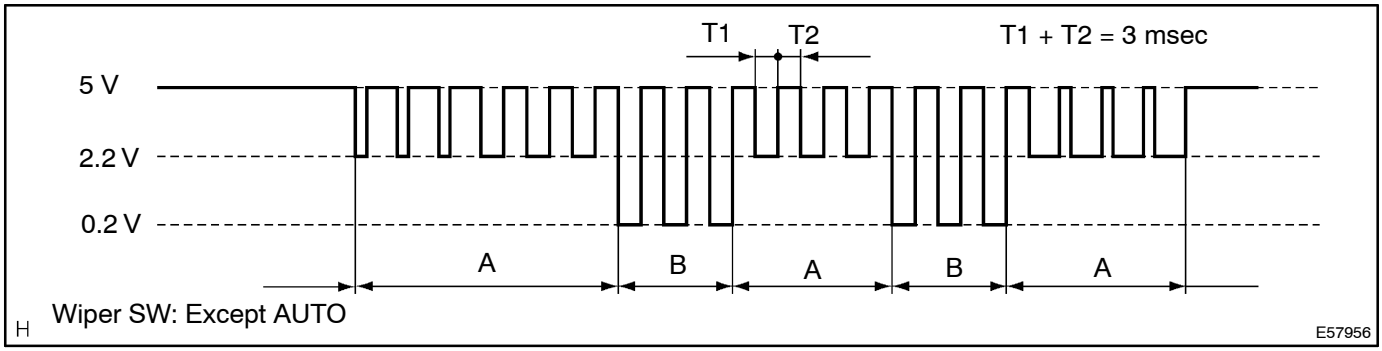
(a) Check the continuity between terminal 4 (ES) of rain sensor and body ground.
Standard: There is continuity.

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

6	CHECK RAIN SENSOR

(a) Check that signal waveform appears between terminal 3 (WIP) and body ground as shown in the illustration.
Standard: Bar appears.



A → Wiper SW: AUTO,
Wiper position: Positions except stop position
B → Wiper SW: AUTO,
Wiper position: Stop position

NG → **REPLCE WINDSHIELD WIPER RELAY ASSY**

OK

7	CHECK RAIN SENSOR(BETWEEN RAIN SENSOR AND BODY GROUND)

(a) Check that voltage between 2 (AUTO) and body ground follows the standard value as shown in the chart below.
Standard:

Rain drop amount	Volt
Nothing	6.8 V
A little (Wiper switch in LO)	4.1 V
A lot (Wiper switch in HI)	1.3 V

NG → **REPLACE RAIN SENSOR**

OK

REPLACE WINDSHIELD WIPER RELAY ASSY