

# BODY ELECTRICAL

## SERVICE DATA

SSOCN-02

DAYTIME RUNNING LIGHT RELAY (MAIN) (Wire Harness Side)	
1 – Ground (Ignition switch position LOCK or ACC)	No voltage
1 – Ground (Ignition switch position ON or START)	Battery positive voltage
5 – Ground (Engine Stop)	No voltage
5 – Ground (Engine Running)	Battery positive voltage
7 – Ground (Constant)	Battery positive voltage
9 – Ground (Constant)	Battery positive voltage
AUTOMATIC LIGHT CONTROL SENSOR	
(Connector disconnected)	
4 – Ground (Ignition switch position LOCK or ACC)	No voltage
4 – Ground (Ignition switch position ON)	5.2 – 9.0 V
(Connector connected)	
1 – Ground (Ignition switch position LOCK or ACC)	No voltage
1 – Ground (Ignition switch position ON)	9.5 V or more
HEADLIGHT BEAM LEVEL CONTROL ECU	
(Connector disconnected)	
A1 – A5 (Ignition switch position OFF)	26 – 30 $\Omega$
A1 – A6 (Ignition switch position OFF)	26 – 30 $\Omega$
A1 – A7 (Ignition switch position OFF)	26 – 30 $\Omega$
A1 – A8 (Ignition switch position OFF)	26 – 30 $\Omega$
A4 – B4 (Ignition switch position ON and light control switch HEAD)	Below 1.5 V
B1 – B3 (Ignition switch position OFF)	3.5 k – 6.5 k $\Omega$
B5 – B7 (Ignition switch position OFF)	3.5 k – 6.5 k $\Omega$
(Connector disconnected)	
B2 – B3 (Ignition switch position ON)	Approx. 2.5 V
B6 – B7 (Ignition switch position ON)	Approx. 2.5 V
B1 – B3 (Ignition switch position ON)	5V
B5 – B7 (Ignition switch position ON)	5V
TURN SIGNAL FLASHER	
1 – Ground (Ignition switch position LOCK or ACC)	No voltage
1 – Ground (Ignition switch position ON)	Battery positive voltage
4 – Ground (Constant)	Battery positive voltage
LIGHT FAILURE RELAY (Wire Harness Side)	
5 – Ground (Light control switch position OFF)	No voltage
5 – Ground (Light control switch position TAIL or HEAD)	Battery positive voltage
8 – Ground (Ignition switch position LOCK or ACC)	No voltage
8 – Ground (Ignition switch position ON)	Battery positive voltage
9 – Ground (Stop light switch position OFF)	No voltage
9 – Ground (Stop light switch position ON)	Battery positive voltage
10 – Ground (Stop light switch position OFF)	No voltage
10 – Ground (Stop light switch position ON)	Battery positive voltage
SPEEDOMETER (ON-VEHICLE)	
USA:	

2001 LEXUS GS300/GS430 (RM791U)

## SERVICE SPECIFICATIONS – BODY ELECTRICAL

Standard indication (mph)	Allowable range (mph)
20	18 – 24
40	38 – 44
60	56 – 66
80	78 – 88
100	98 – 110
120	118 – 132
CANADA:	
Standard indication (km/h)	Allowable range (km/h)
20	17 – 24
40	38 – 46
60	57.5 – 67
80	77 – 88
100	96 – 109
120	115 – 130
160	134 – 151.5
Speedometer	Resistance ( $\Omega$ )
A – B	140 – 185 $\Omega$
C – D	130 – 175 $\Omega$
TACHOMETER (ON-VEHICLE)/ DC 13.5 V 25 °C at (77 °F)	
Standard indication	Allowable range
700	630 – 770
1,000	900 – 1,100
2,000	1,850 – 2,150
3,000	2,800 – 3,200
4,000	3,800 – 4,200
5,000	4,800 – 5,200
6,000	5,750 – 6,250
7,000	6,700 – 7,300
Tachometer	Resistance ( $\Omega$ )
A – B	140 – 185 $\Omega$
C – D	130 – 175 $\Omega$
FUEL RECEIVER GAUGE	Resistance ( $\Omega$ )
A – B	140 – 185 $\Omega$
C – D	130 – 175 $\Omega$
FUEL MAIN SENDER GAUGE	
Float position mm (in.)	Resistance ( $\Omega$ )
F: Approx. 34.6 (1.36) $\pm$ 3 (0.12)	Approx. 2.0 $\pm$ 1.0
1/2: Approx. 52.4 (2.06) $\pm$ 3 (0.12)	Approx. 26.1 $\pm$ 3.0
E: Approx. 134.9 (5.31) $\pm$ 3 (0.12)	Approx. 48.7 $\pm$ 1.0
FUEL SUB SENDER GAUGE	
Float position mm (in.)	Resistance ( $\Omega$ )
F: Approx. 9.5 (0.37) $\pm$ 3 (0.12)	Approx. 2.0 $\pm$ 1.0
1/2: Approx. 110.5 (4.35) $\pm$ 3 (0.12)	Approx. 33.0 $\pm$ 3.0
E: Approx. 206.5 (8.13) $\pm$ 3 (0.12)	Approx. 61.3 $\pm$ 1.0
ENGINE COOLANT TEMPERATURE RECEIVER GAUGE (Resistance)	Resistance ( $\Omega$ )

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A – B	140 – 185 $\Omega$
C – D	130 – 175 $\Omega$
ENGINE COOLANT TEMPERATURE SENDER GAUGE (Resistance)	
Temperature °C (°F)	Resistance ( $\Omega$ )
50 (122.0)	160 – 240
120 (248.0)	17.1 – 21.2
DEFOGGER SWITCH (wire harness side)	
A2 – Ground (Ignition switch position LOCK or ACC)	No voltage
A2 – Ground (Ignition switch position ON)	Battery positive voltage
WIRELESS DOOR LOCK CONTROL RECEIVER	
(Connector disconnected)	
7 – Ground (Constant)	Battery positive voltage
(Connector connected)	
3 – Ground (Ignition switch position OFF, Key removed, Transmitter OFF → ON)	4.5 – 5.5 V → below 1 V
3 – Ground (Ignition switch position OFF, Key removed, Transmitter OFF → ON)	4.5 – 5.5 V → below 1 V
4 – Ground (Ignition switch position OFF, Key removed, Transmitter OFF)	10 – 14 V
CD AUTO CHANGER	
(Except Nakamichi made)	
5 – Ground (Constant)	Battery positive voltage
12 – Ground (Ignition switch position LOCK)	No voltage
12 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
POWER AMPLIFIER	
(Except Nakamichi made)	
B4 – Ground (Constant)	Battery positive voltage
C12 – Ground (Ignition switch position LOCK)	No voltage
C12 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
RADIO RECEIVER	
(Except Nakamichi made)	
A4 – Ground (Constant)	Battery positive voltage
A1 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
A1 – Ground (Ignition switch position LOCK)	No voltage
CD AUTO CHANGER	
(Nakamichi made)	
5 – Ground (Constant)	Battery positive voltage
4 – Ground (Ignition switch position LOCK)	No voltage
4 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
POWER AMPLIFIER	
(Nakamichi made)	
A2 – Ground (Constant)	Battery positive voltage
A5 – Ground (Constant)	Battery positive voltage
A6 – Ground (Ignition switch position OFF)	Battery positive voltage
A6 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
RADIO RECEIVER	

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(Nakamichi made)	
D1 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
D1 – Ground (Ignition switch position LOCK)	No voltage
D4 – Ground (Constant)	Battery positive voltage