

# BODY ELECTRICAL

## SERVICE DATA

SSOCN-01

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
5 – Ground (Ignition switch position LOCK or ACC)	No voltage
5 – Ground (Ignition switch position ON)	Battery positive voltage
(Connector connected)	
6 – Ground (Constant)	1 V or less
5 – Ground (Ignition switch position LOCK or ACC)	1 V or less
5 – Ground (Ignition switch position ON)	9.5 V or more
4 – Ground (Vehicle's surroundings are dark) (Sensor is covered)	Taillight and headlight are ON
HEADLIGHT BEAM LEVEL CONTROL ECU	
(Connector disconnected)	
1 – 4 (Ignition switch position OFF)	26 – 30 Ω
1 – 5 (Ignition switch position OFF)	26 – 30 Ω
1 – 6 (Ignition switch position OFF)	26 – 30 Ω
1 – 7 (Ignition switch position OFF)	26 – 30 Ω
1 – 17 (Ignition switch position OFF)	26 – 30 Ω
1 – 18 (Ignition switch position OFF)	26 – 30 Ω
1 – 19 (Ignition switch position OFF)	26 – 30 Ω
1 – 20 (Ignition switch position OFF)	26 – 30 Ω
(Connector disconnected)	
1 – 13 (Ignition switch position ON)	Battery positive voltage
10 – 25 (Ignition switch position ON)	Approx. 2.5 V
13 – 15 (Ignition switch position ON and light control switch HEAD)	Below 1.5 V
21 – 25 (Ignition switch position ON)	Approx. 2.5 V
24 – 25 (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)	
1 – Ground (Stop light switch position OFF)	No voltage
1 – Ground (Stop light switch position ON)	Battery positive voltage
8 – Ground (Stop light switch position OFF)	No voltage

## SERVICE SPECIFICATIONS – BODY ELECTRICAL

8 – Ground (Stop light switch position ON)	Battery positive voltage
9 – Ground (Ignition switch position LOCK or ACC)	No voltage
9 – Ground (Ignition switch position ON)	Battery positive voltage
14 – Ground (Ignition switch position LOCK or ACC)	No voltage
14 – Ground (Ignition switch position ON)	Battery positive voltage
16 – Ground (Light control switch position OFF)	No voltage
16 – Ground (Light control switch position TAIL or HEAD)	Battery positive voltage
SPEEDOMETER (ON-VEHICLE)	
USA:	
Standard indication (mph)	Allowable range (mph)
20	18.5 – 21.5
40	40 – 43
60	60.5 – 64
80	81 – 85
100	102 – 107
120	122.5 – 128.5
CANADA:	
Standard indication (km/h)	Allowable range (km/h)
20	18 – 23
40	38 – 42
60	57 – 61.5
80	76.5 – 81.5
100	96.5 – 101.5
120	116 – 121.5
160	155.5 – 162.5
200	194.5 – 203.5
TACHOMETER (ON-VEHICLE)/ DC 13.5 V 25 °C at (77 °F)	
Standard indication	Allowable range
700	630 – 770
1,000	925 – 1,125
2,000	1,900 – 2,200
3,000	2,845 – 3,305
4,000	3,870 – 4,330
5,000	4,925 – 5,320
7,000	6,875 – 7,475
FUEL RECEIVER GAUGE	
A – B	Approx. 151.8 $\Omega$
C – D	Approx. 164.2 $\Omega$
FUEL SENDER GAUGE	
Float position mm (in.)	Resistance ( $\Omega$ )
F: Approx. 310.5 (12.22)	Approx. 4.6
1/2: Approx. 172.0 (6.77)	Approx. 2.43
E: Approx. 34.3 (1.35)	Approx. 0.35
ENGINE COOLANT TEMPERATURE RECEIVER GAUGE (Resistance)	
A – B	Approx. 151.8 $\Omega$
C – D	Approx. 164.2 $\Omega$

2000 LEXUS LS400 (RM717U)

ENGINE COOLANT TEMPERATURE SENDER GAUGE (Resistance)	
Temperature °C (°F)	Resistance (Ω)
50 (122.0)	160 – 240
120 (248.0)	17.1 – 21.2
MULTI INFORMATION DISPLAY SWITCH	
Switch position	Resistance (Ω)
FUNCTION	0
REST	Approx. 360
MODE	Approx. 1,110
DEFOGGER SWITCH	
2 – Ground (Ignition switch position LOCK or ACC)	No voltage
2 – Ground (Ignition switch position ON)	Battery positive voltage
WIRELESS DOOR LOCK CONTROL RECEIVER	
(Connector disconnected)	
1 – 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
RADIO RECEIVER	
(Nakamichi made)	
B6 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
B6 – Ground (Ignition switch position LOCK)	No voltage
B1 – Ground (Constant)	Battery positive voltage
POWER AMPLIFIER	
(Nakamichi made)	
A5 – Ground (Constant)	Battery positive voltage
A6 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
D6 – Ground (Ignition switch position ACC or ON, Radio tape or CD switch ON)	Battery positive 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
RADIO RECEIVER	
(Pioneer made)	
A1 – Ground (Constant)	Battery positive voltage
A6 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
A6 – Ground (Ignition switch position LOCK)	No voltage
POWER AMPLIFIER	
(Pioneer made and LEXUS navigation system)	
B4 – Ground (Constant)	Battery positive voltage

## SERVICE SPECIFICATIONS - BODY ELECTRICAL

C12 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
CD AUTO CHANGER	
(Pioneer made and LEXUS navigation system)	
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
RADIO RECEIVER	
(LEXUS navigation system)	
B1 – Ground (Ignition switch position ACC or ON)	Battery positive voltage
B1 – Ground (Ignition switch position LOCK)	No voltage
B4 – Ground (Constant)	Battery positive voltage