[CONTROL VALVE BODY]
PCM

Uses information from various sensors/actuators to control powertrain (engine/transaxle) operation.

PCM

B1-01

B1-03
SECONDARY AIR INJECTION PUMP RELAY [BLACK]

X-01
RELAY AND MAIN FUSE BLOCK
B1-02
DRIVE-BY-WIRE RELAY (ETV)
B1-05
IGNITION RELAY (IGNITION)

IGNITION SWITCH
X-04
X-05
X-06

X-07
X-08

X-02
FUSE BLOCK

X-05
X-06

X-01

(w) RX-8 Electrical
Page 8
SECONDARY SHUTTER VALVE SWITCH
Detects whether the SECONDARY SHUTTER VALVE SWITCH is opened or closed.

[F] FUEL INJECTOR (FRONT PRIMARY 2) B1-33
[F] FUEL INJECTOR (REAR PRIMARY 2) B1-34
[F] FUEL INJECTOR (FRONT SECONDARY) B1-32

ENGINE COOLANT TEMPERATURE SENSOR
Detects engine coolant temperature and sends signal to PCM.

[GRAY] ENGINE COOLANT TEMPERATURE SENSOR B1-36

PCM
Uses information from various sensors/adaptors to control powertrain (engine/transaxle) operation.

[F]-[E2] X-18

METERING OIL PUMP SWITCH
Detects the fully-open position of the stepping motor when the learning function of the metering oil pump is performed.

B1-01 PCM

B1-35 METERING OIL PUMP SWITCH [BLACK]

B1-37 AUXILIARY PORT VALVE MOTOR [GRAY]

AUXILIARY PORT VALVE MOTOR
Drives the AUXILIARY PORT VALVE motor to open or close the AUXILIARY PORT VALVE according to a signal from the PCM.

FUEL INJECTOR
Controlled by PCM meters fuel to engine.
PCM
Uses information from various sensors/actuators to control powertrain (engine/transaxle) operation.

B1-01

NEUTRAL SWITCH
Opened when gear is in neutral position. Sends signal to PCM.

B1-38

B1-39
OIL PRESSURE SWITCH
Closes when oil pressure is low.

B1-40
OIL LEVEL SWITCH [BLACK]

EVAPORATIVE SYSTEM LEAK DETECTION PUMP
The internal pump pressurizes the emission system by pumping air to check clogging and leakage in the emission system.

B1-44

B1-43
(RIGHT/SHORT CORD [GRAY])

X-07
[GRAY]
(F>R)
PCM
Uses information from various sensors/actuators to control powertrain (engine/transaxle) operation.
PCM
Uses information from various sensors/actuators
to control powertrain (engine/transaxle) operation.
COOLING FAN MOTOR
Operates when PCM determines fan operation depending on Crankshaft Position, Engine Coolant Temperature, Vehicle Speed, Intake Air Temperature sensors and A/C switch, Refrigerant pressure switch inputs.

B3-04 COOLING FAN MOTOR No. 1
(BLACK)

B3-05 COOLING FAN MOTOR No. 2
(GRAY)

X-01 RELAY AND MAIN FUSE BLOCK
B3-01 COOLING FAN RELAY No. 1
(COOLING FAN1)
B3-02 COOLING FAN RELAY No. 2
(COOLING FAN2)
B3-03 COOLING FAN RELAY No. 3
(COOLING FAN3)

COOLING FAN RELAY
When energized, directs voltage to cooling fan motor.
NOTE:
The TPMS consists of wheel units that detect air pressure, temperature and acceleration of each tire, and a TPMS control module that receives data (RF signals) sent from the wheel units to monitor the air pressure of each tire. Therefore there is no wiring between the TPMS control module and the WHEEL UNIT.

C2-01 TPMS CONTROL MODULE(1)
DISCHARGE HEADLIGHT SERVICE WARNINGS

DISCHARGE HEADLIGHT BULB SERVICE WARNINGS

- To prevent electrical shock when replacing the discharge headlight bulb, dry hands thoroughly, and carry out work in an area out of rain.
- When the light switch is on, approx. 25,000 V of high voltage passes through the discharge headlight bulb socket. Because of the danger of electrical shock, do not insert fingers or a tester.
- When the headlights are on, high voltage flows around the socket and bulb. When turning on the discharge headlights while working, always leave the headlights in the vehicle-installed condition to prevent electrical shock.

DISCHARGE HEADLIGHT CONTROL MODULE SERVICE WARNINGS

- Because of the danger of electrical shock, when inspecting with a tester, do not inspect the discharge headlight control unit as a single unit or disassemble it.
DISCHARGE HEADLIGHT SERVICE WARNINGS

DISCHARGE HEADLIGHT BULB SERVICE WARNINGS
- To prevent electrical shock when replacing the discharge headlight bulb, dry hands thoroughly, and carry out work in an area out of rain.
- When the light switch is on, approx. 25,000 V of high voltage passes through the discharge headlight bulb socket. Because of the danger of electrical shock, do not insert fingers or a tester.
- When the headlights are on, high voltage flows around the socket and bulb. When turning on the discharge headlights while working, always leave the headlights in the vehicle-installed condition to prevent electrical shock.

DISCHARGE HEADLIGHT CONTROL MODULE SERVICE WARNINGS
- Because of the danger of electrical shock, when inspecting with a tester, do not inspect the discharge headlight control unit as a single unit or disassemble it.
E5-03
FRONT FOG LIGHT RH
(BLACK)

E5-02
FRONT FOG LIGHT LH
(BLACK)

X-01
RELAY AND MAIN FUSE BLOCK
E5-01
FRONT FOG LIGHT
RELAY
(FOG)

X-05
(FH1)

E6-04
FRONT FOG LIGHT SWITCH

X-05
(FH1)
FLASHER CONTROL MODULE

With the turn signal switch in the left or right position or hazard switch on, the flasher module directs voltage to the appropriate lamps and indicators.
**HORN RELAY**

When energized, directs voltage and current to the horns.

**NOISE FILTER F3-01**

**X-09 (F) (H) F3-05**

HORN RH

**F3-06**

HORN LH (BLACK)

**X-05**

RELAY AND MAIN FUSE BLOCK

**F3-04**

HORN RELAY (HORN)

**B1-18**

HORN SWITCH

**X-05**

When pushed, provides ground to coil of horn relay.

**X-01**

**HORN SWITCH**

**X-09**

**F3-07**

BRAKE SWITCH

Closed with brake pedal depressed. Sends signal to related control module.

**F3-02**

BRAKE LIGHT LH

**E6-05**

**E6-06**

BRAKE LIGHT RH

**X-11**

**F3-03**

HIGH-MOUNT BRAKE LIGHT

**X-11**

**F3-02**

(R2)/(R3)
REFRIGERANT PRESSURE SWITCH
If the A/C refrigerant pressure is abnormal, the refrigerant pressure switch cut the A/C signal, thereby stopping the A/C compressor.

IGNITION SWITCH
- X-04
- X-05

BLOWER RELAY
- X-09
- X-01
- RELAY AND MAIN FUSE BLOCK
- G1-02
- BLOWER RELAY (HEATER)
- X-02
- FUSE BLOCK

AIR INTAKE ACTUATOR
- G1-05
- [GREEN]

A/C AMPLIFIER
- G1-01

FAN SWITCH
- G1-14

BLOWER MOTOR
- G1-03
- RESISTOR
- G1-04
**EVAPORATOR TEMPERATURE SENSOR**
Detects the evaporator temperature and prevents the evaporator from freezing.

**CENTER PANEL MODULE**
Composed of the installed audio unit with the audio switch, A/C switch, hazard warning switch, and rear defroster switch built into the center panel.
HARNESS SYMBOL: (F) (E) (R)

[Diagram of car wiring with labels:
- X-01: Relay and main fuse block
- G2-01: A/C relay (air cond)
- IGNITION SWITCH: X-04
- X-02: Fuse block
- [BLACK] MAGNETIC CLUTCH G2-02

A/C RELAY
When energized, directs voltage to A/C compressor magnetic clutch.

(w) RX-8 Electrical Page 69
TRANSMISSION RANGE SWITCH
Detects selector lever position.

VEHICLE SPEED SENSOR
Mounted on the transaxle or transmission, this sensor generates a signal that is proportional to vehicle speed and sends this signal to PCM.

TURBINE SENSOR
Detects the rotating speed of the input shaft (turbine).
[CONTROL VALVE BODY]

H-04 (E2)-SHORT CORD No.1

H-08 SHORT CORD No.1
SHORT CORD No.3

H-10 OIL PRESSURE SWITCH

H-10

OIL PRESSURE SWITCH
Closes when oil pressure is low.

H-04 (E2)-SHORT CORD No.1
(BLACK)

H-11 SOLENOID

[TCM] TCM

TCM
Requires inputs from its sensors and switches, this module directs signals to the solenoid valves.
REAR WINDOW DEFROSTER RELAY
When energized directs voltage and current to rear window defroster filament.
AUDIOPILOT MICROPHONE

"Audiopilot" is a registered trademark of Bose Corporation.
AUDIOPILOT
Measures the driving noise level inside the vehicle with a specialized microphone, and the main amplifier modifies the volume accordingly.
AUDI UNIT (SECTION J-4a)

MAIN AMPLIFIER

REAR TWEETER LH
REAR SPEAKER LH
REAR SPEAKER RH
REAR TWEETER RH

AUDIOPILLOT MICROPHONE

J4-05 REAR TWEETER LH(R)
J4-07 REAR TWEETER RH(R)
J4-08 REAR SPEAKER LH(R)
J4-09 REAR SPEAKER RH(R)
J4-10 MAIN AMPLIFIER (R)

J4-11 AUDIOPILLOT MICROPHONE (I)

*AudioPilot" is a registered trademark of Bose Corporation.
POWER OUTSIDE MIRROR
Contains reversible motors which move the mirror up, down, left, and right.

L1-03
POWER OUTER MIRROR/HEATED OUTER MIRROR LH

L1-01
POWER OUTER MIRROR SWITCH

POWER OUTSIDE MIRROR SWITCH
Controls current to power outside mirrors.
ABS HYDRAULIC UNIT/CONTROL MODULE
Monitors the brake on/off switch and the four wheel speed sensors to determine when the anti-lock brake system should be engaged.

ABS WHEEL-SPEED SENSOR
Uses the magnetic pickup sensor. As ring teeth pass by sensor, a pulsing voltage signal is generated and sent to ABS control module.
ABS WHEEL-SPEED SENSOR
Uses the magnetic pickup sensor. As ring teeth pass by sensor, a pulsing voltage signal is generated and sent to ABS control module.
SAS CONTROL MODULE
Monitors shock level when collisions occur. Also, monitors air bag electrical system components and connections to prevent mis-operation or no operation of the air bag.

CLOCK SPRING
Electrically connects steering wheel and air bag to body harness.
SAS CONTROL MODULE
Monitors shock level when collisions occur. Also, monitors air bag electrical system components and connections to prevent mis-operation or no operation of the air bag.
S1-09
CRASH ZONE SENSOR [GRAY]

CRASH ZONE SENSOR
Detects degree of impact, converts to an electrical signal, and sends the signal to the SAS control module.

SAS CONTROL MODULE
Monitors shock level when collisions occur. Also, monitors air bag electrical system components and connections to prevent mis-operation or no operation of the air bag.

K2-05
(R) SHORT CORD
FRONT BUCKLE SWITCH LH

K2-12
FRONT BUCKLE SWITCH LH

K2-06
(YELLOW)
SAS CONTROL MODULE
S1-01

S1-16
DRIVER-SIDE CURTAIN AIR BAG MODULE
(YELLOW)

S1-19
SEAT TRACK POSITION SENSOR

S1-18
(PASSenger-SIDE CURTAIN AIR BAG MODULE
(YELLOW)
X-19 FRONT (F) - ENGINE (E)

X-20 JOINT CONNECTOR (F)

X-21 JOINT CONNECTOR (F)

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X-22 JOINT CONNECTOR (I)

X-23 JOINT CONNECTOR (I)

X-24 JOINT CONNECTOR (I)

X-25 JOINT CONNECTOR (R)

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NOTE: THIS IS THE CONNECTOR AS SEEN FROM THE TERMINAL SIDE.