

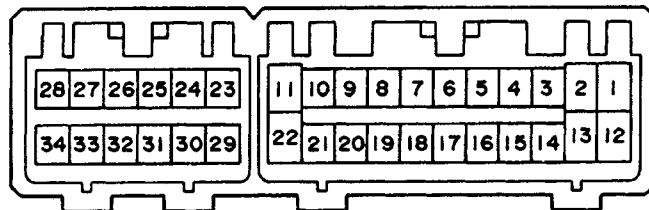
# ANTI-LOCK BRAKE SYSTEM CIRCUIT

BR07R-01

## SYSTEM CIRCUIT INSPECTION

### 1. INSPECT SYSTEM CIRCUIT WITH CONNECTOR CONNECTED

- (a) Remove the ABS ECU.
- (b) Using a voltmeter with high impedance (10 kΩ/V minimum), measure the voltage at each terminal and body ground.



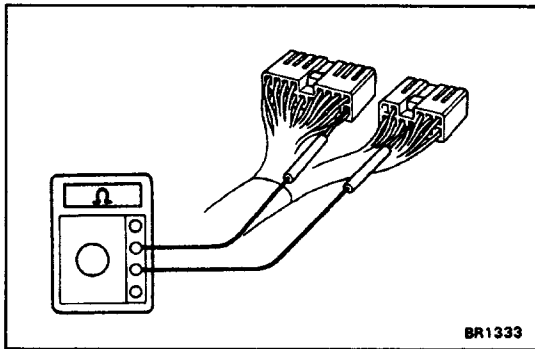
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Tester Connection	Check Item	Condition	Specified Value	Trouble Part
IG	Voltage	IG switch on	Battery voltage	ECU-IG Fuse
R L-	Continuity	IG switch off	Continuity	ABS ECU
STP	Voltage	IG switch off and brake pedal depressed	Battery voltage	Stop light switch Stop light
	Continuity	IG switch off and brake pedal returned.	Continuity	
BAT	Voltage	IG switch off	Battery voltage	ECU + B Fuse
EX	Voltage	IG switch on	Battery voltage	ABS ECU. EFI ECU
RSS	Continuity	IG switch off	Continuity	ABS ECU
RR-	Continuity	IG switch off	Continuity	ABS ECU
WA	Voltage	IG switch on and "ABS" warning light goes on	About OV.	ABS ECU "ABS" warning light
		IG switch on and "ABS" warning light goes off	Battery voltage	
PK6	Voltage	IG switch on and PKB lever pulled	About OV	Parking brake switch Level warning switch
		IG switch on and PKB lever returned	Battery voltage	
SFR	Voltage	IG switch on and "ABS" warning light goes on	About OV	Actuator
		IG switch on and "ABS" warning light goes off	Battery voltage	
TS	Voltage	IG switch on and check connector Ts-E, not connected	Battery voltage	ABS ECU
		IG switch on and check connector Ts-E, connector	About OV	
FR-	Continuity	IG switch off	Continuity	
R-	Continuity	IG switch off	Continuity	
SR	Voltage	IG switch on and "ABS" warning light goes on	About OV	ABS ECU
		IG switch on and "ABS" warning light goes off	Battery voltage	
GND	Continuity	IG switch off	Continuity	Wiring harness
SFL	Voltage	IG switch on and "ABS" warning light goes on	About OV	Actuator
		IG switch on and "ABS" warning light goes off	Battery voltage	

Tester Connection	Check Item	Condition	Specified Value	Trouble Part
TC	Voltage	IG switch on and check connector Tc-E, not connected	Battery voltage	ABS ECU
		IG switch on and check connector Tc-E, connected	About OV	
AST	Voltage	IG switch on and "ABS" warning light goes on	About OV	Actuator
		IG switch on and "ABS" warning light goes off	Battery voltage	
FL-	Continuity	IG switch off	Continuity	A6S ECU
FSS	Continuity	IG switch off	Continuity	
SRR	Voltage	IG switch on and "ABS" warning light goes on	About OV	Actuator
		IG switch on and "ABS" warning light goes off	Battery voltage	

If the circuit is not as specified, check and repair or replace the trouble part shown in the table above.

W01022



## 2. INSPECT SYSTEM CIRCUIT WITH CONNECTOR DISCONNECTED

- (a) Disconnect the connectors from the ECU, inspect at the wire harness side connector.

Tester Connection	Check Item	Specified Value	Trouble Part	Tester Connection	Check Item	Specified Value	Trouble Part
RR+ ↔ RR-	Resistance	0.9 ~ 1.5 kΩ	Rear RH speed sensor	SFL ↔ AST	Resistance	About 6 Ω	Actuator
RL+ ↔ RL-	Resistance	0.9 ~ 1.5 kΩ	Rear LH speed sensor	AST ↔ Body ground	Resistance	About 5 Ω	Actuator
SFR ↔ AST	Resistance	About 6 Ω	Actuator	FR+ ↔ FR-	Resistance	0.8 ~ 1.5 Ω	Front R H speed sensor
MT ↔ Body ground	Resistance	About 5 Ω	Actuator	MR ↔ R-	Resistance	50 ~ 80 Ω	Control relay
FL+ ↔ FL-	Resistance	0.8 ~ 1.5 kΩ	Front LH speed sensor	SRR ↔ AST	Resistance	About 6 Ω	Actuator
SR ↔ R-	Resistance	60 ~ 100 Ω	Control relay				

If the circuit is not as specified, check and repair or replace the trouble part shown in the table above.

W01023

- (b) Connect the connectors, and install the ECU in place.