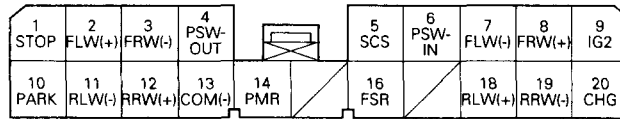


ABS Control Unit Terminal Arrangement

ABS CONTROL UNIT 20P CONNECTOR



Wire side of female terminals

VB: Battery Voltage

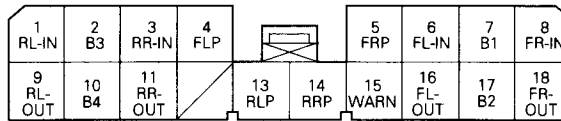
Terminal number	Wire color	Terminal sign (Terminal name)	Description	Measurement			
				Terminal	Conditions (Ignition switch ON (II))	Voltage	
1	GRN/WHT	STOP	Detects brake switch signal	1-GND	Brake pedal	Depressed	VB
						Released	Below 0.3 V
2	GRN/BLU	FLW (+) (Front-left wheel positive)	Detects left-front wheel sensor signal	2-7	Turns wheel slowly		AC: 0.07 V or above
3	GRN	FRW (-) (Front-right wheel negative)	Detects right-front wheel sensor signal	3-8			Oscilloscope: 0.2 Vp-p or above
4	YEL	PSW-OUT (Pressure switch outlet)	Detects pressure switch signal	4-GND	Pump motor	ON	Approx. 5 V
						OFF	Approx. 2.5 V
5	BLU	SCS (Service check signal)	Detects service check connector signal (DTC indication)	5-GND	SCS service connector	Connected	Below 0.3 V
						Disconnected	Approx. 5 V
6	ORN	PSW-IN (Pressure switch inlet)	Detects pressure switch signal	6-GND	Pump motor	ON	Approx. 1 V
						OFF	Approx. 2.5 V
7	BRN	FLW (-) (Front-left wheel negative)	Detects left-front wheel sensor signal	2-7	Turns wheel slowly		AC: 0.07 V or above
8	GRN/BLK	FRW (+) (Front-right wheel positive)	Detects right-front wheel sensor signal	3-8			Oscilloscope: 0.2 Vp-p or above
9	YEL/BLK	IG2 (Ignition 2)	Detects ignition switch IG2 signal	9-GND	Ignition switch	ON (II)	VB
						Start (III)	Below 0.3 V

VB: Battery Voltage

Terminal number	Wire color	Terminal sign (Terminal name)	Description	Measurement			
				Terminal	Conditions (Ignition switch ON (II))		Voltage
10	GRN/RED	PARK (Parking)	Detects parking brake switch signal	10-GND	Parking brake	Pulled Released	Below 0.3 V VB
11	GRY	RLW (-) (Rear-left wheel negative)	Detects left-rear wheel sensor signal	11-18	Turns wheel slowly		AC: 0.07 V or above
12	GRN/YEL	RRW (+) (Rear-right wheel positive)	Detects right-rear wheel sensor signal	12-19			Oscilloscope: 0.2 Vp-p or above
13	BLK/ORN	COM (-) (Common negative)	Ground for ALB checker when it is connected	13-GND			Below 0.3 V
14	YEL/RED	PMR (Pump motor relay)	Drives pump motor relay	14-GND	ABS Indicator light	OFF Pump motor ON OFF	Below 0.3 V VB
						ON	Below 0.3 V
16	YEL/GRN	FSR (Fail-safe relay)	Drives fail-safe relay (Fail-safe relay is turned OFF to shut off the power source to the solenoid when problem occurs.)	15-GND	ABS indicator light		ON Below 0.3 V
							OFF VB
18	LT BLU	RLW (+) (Rear-left wheel positive)	Detects left-rear wheel sensor signal	11-18	Turns wheel slowly		AC: 0.07 V or above
19	BLU/YEL	RRW (-) (Rear-right wheel negative)	Detects right-rear wheel sensor signal	12-19			Oscilloscope: 0.2 Vp-p or above
20	WHT/BLU	CHG (Charge)	Detects engine operation (Activates ABS control unit with engine ON.)	20-GND	Engine	Running	VB
						Stops	Below 0.3 V

ABS Control Unit Terminal Arrangement

ABS CONTROL UNIT 18P CONNECTOR



Wire side of female terminals

VB: Battery Voltage

Terminal number	Wire color	Terminal sign (Terminal name)	Description	Measurement			
				Terminal	Conditions (Ignition switch ON (II))	Voltage	
1	RED/GRN	RL-IN (Rear-left inlet solenoid valve)	Drives left-rear inlet solenoid valve	1-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB
2	WHT/BLK	B3 (Battery 3)	Power source for solenoid valve	2-GND			VB
3	RED/WHT	RR-IN (Rear-right inlet solenoid valve)	Drives right-rear inlet solenoid valve	3-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB
4	ORN/BLK	FLP (Front-left pulse)	Outputs left-front wheel sensor signal	4-GND	Turns wheel slowly		5 V ↔ 0 V
5	ORN/RED	FRP (Front-right pulse)	Outputs right-front wheel sensor signal	5-GND			
6	RED/BLU	FL-IN (Front-left inlet solenoid valve)	Drives left-front inlet solenoid valve	6-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB
7	WHT/GRN	B1 (Battery 1)	Power source for solenoid valve	7-GND			VB
8	RED/BLK	FR-IN (Front-right inlet solenoid valve)	Drives right-front inlet solenoid valve	8-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB

VB: Battery Voltage

Terminal number	Wire color	Terminal sign (Terminal name)	Description	Measurement			
				Terminal	Conditions (Ignition switch ON (II))	Voltage	
9	YEL/GRN	RL-OUT (Rear-left outlet solenoid valve)	Drives left-rear outlet solenoid valve	9-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB
10	WHT/GRN	B4 (Battery 4)	Power source for solenoid valve	10-GND			VB
11	YEL/WHT	RR-OUT (Rear-right outlet solenoid valve)	Drives right-rear outlet solenoid valve	11-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB
13	GRY/WHT	RLP (Rear-left pulse)	Outputs left-rear wheel sensor signal	13-GND	Turns wheel slowly		5 V ↔ 0 V
14	BLU/ORN	RRP (Rear-right pulse)	Outputs right-rear wheel sensor signal	14-GND			
15	BLU/WHT	WARN (Warning)	Drives ABS indicator light relay (ABS control unit turns off ABS indicator light relay when ABS is normal)	15-GND	ABS indicator light (Engine started)	ON	VB
						OFF	Below 0.3 V
16	YEL/BLU	FL-OUT (Front-left outlet solenoid valve)	Drives left-front outlet solenoid valve	16-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB
17	WHT/BLK	B2 (Battery 2)	Power source for solenoid valve	17-GND			VB
18	YEL/BLK	FR-OUT (Front-right outlet solenoid valve)	Drives right-front outlet solenoid valve	18-GND	ABS indicator light (Engine started)	ON	Below 0.3 V
						OFF	VB