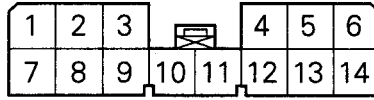


TCS Control Unit Terminal Arrangement

TCS CONTROL UNIT 14P CONNECTOR



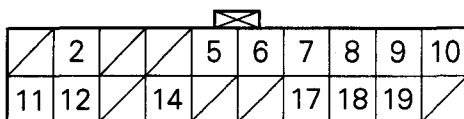
14P CONNECTOR

WIRE SIDE OF FEMALE TERMINALS

Terminal number	Wire color	Terminal sign (Terminal name)	Description	Voltage		
				Measurement terminals	Conditions (Ignition Switch ON (II))	Output voltage
1	ORN/RED	FRP (Front right pulse)	Detects right-front wheel sensor signal from the ABS control unit.	1-GND	Raise the car off the ground and rotate the right-front wheel.	0 V ↔ 5 V
2	WHT	GSEN VCC (Lg sensor power supply)	Power source for Lg sensor.	2-GND		5 V
3	ORN/BLK	FLP (Front left pulse)	Detects left-front wheel sensor signal from the ABS control unit.	3-GND	Raise the car off the ground and rotate the left-front wheel.	0 V ↔ 5 V
4	BLU/ORN	RRP (Rear right pulse)	Detects right-rear wheel sensor signal from the ABS control unit.	4-GND	Raise the car off the ground and rotate the right-rear wheel.	0 V ↔ 5 V
5	YEL/RED	STR VCC (Steering angle sensor power supply)	Power source for steering angle sensor.	5-GND		5 V
6	GRY/WHT	RLP (Rear left pulse)	Detects left-rear wheel sensor signal from the ABS control unit.	6-GND	Raise the car off the ground and rotate the left-rear wheel.	0 V ↔ 5 V
7	YEL/BLK	WARN1 (Warning lamp)	Drives TCS indicator light (Shuts off the indicator light ground circuit inside the TCS control unit to turn off the light when the system is normal).	7-GND	Indicator light ON	Below 0.6 V
					Indicator light OFF	Battery voltage
8	LT GRN/RED	STR B (Steering angle sensor signal B)	Detects steering angle sensor signal B.	8-GND	Rotate the steering wheel.	5 V ↔ 0 V
9	RED	PNSW (Parking/neutral shift position signal)	Detects shift position signal in P and N position. (Manual transmission: no connection)	9-GND	Shift the transmission to P or N position.	0 V
					Shift the transmission to except P or N position.	10 V
10	GRN/WHT	STOP (Brake switch signal)	Detects brake switch signal.	10-GND	Brake pedal depressed.	Battery voltage
					Brake pedal released.	0 V
11	YEL/GRN	TCSW (TCS switch signal)	Detects TCS switch signal.	11-GND	Push the TCS switch.	Battery voltage
					Release the TCS switch.	0 V
12	BRN/BLK	LG1 (Logic ground)	Ground for the TCS control unit control circuits.	12-GND		Below 0.3 V
13	LT GRN/WHT	STR A (Steering angle sensor signal A)	Detects steering angle sensor signal A.	13-GND	Rotate the steering wheel.	5 V ↔ 0 V
14	YEL	IG1 (Ignition switch)	Detects ignition switch IG1 signal.	14-GND		Battery voltage



TCS CONTROL UNIT 20P CONNECTOR



WIRE SIDE OF FEMALE TERMINALS

20P CONNECTOR

Terminal number	Wire color	Terminal sign (Terminal name)	Description	Voltage		
				Measurement terminals	Conditions (Ignition Switch ON (III))	Output voltage
2	GRN/RED	PARK (Parking brake switch signal)	Detects parking brake switch signal.	2-GND	Pull the parking brake lever up.	Below 0.6 V
					Release the parking brake lever.	Battery voltage
5	BLK	SDL SELD (Serial data line shield)	FI serial data line shield.	5-GND	Check for continuity.	There is continuity
6	ORN/BLU	AT SHIFT (A/T shift position)	Detects A/T shift position signal.	6-GND	Shift the transmission to P position. Engine idling.	Approx. 4 V (5 V ↔ 0 V)
7	BLU	SCS (Service check signal)	Detects service check connector signal (diagnostic trouble code indication).	7-GND	SCS service connector connected.	0 V
					SCS service connector disconnected.	5 V
8	BLK	GSEN GND (Lg sensor ground)	Ground for the Lg sensor.	8-GND		Below 0.3 V
9	RED	GSEN SIG (Lg sensor signal)	Detects Lg sensor signal.	9-GND	Connector side facing down.	3.5 V
					Vertical	2.5 V
					Connector side facing up.	1.5 V
10	WHT/YEL	VB (Back-up voltage)	Power source for diagnostic trouble code memory.	10-GND	Battery voltage at all time.	Battery voltage
11	YEL/BLK	WARN2 (Warning lamp)	Drives TCS indicator light (Shuts off the indicator light ground circuit inside the TCS control unit to turn off the light when the system is normal).	11-GND	Indicator light ON	Below 0.6 V
					Indicator light OFF	Battery voltage
12	BRN/BLK	LG2 (Logic ground)	Ground for the TCS control unit control circuits.	12-GND		Below 0.3 V
14	RED/BLU	FI SDL (FI serial data line)	Serial data line to communicate with the ECM.	14-GND	Engine idling.	Approx. 3 V
17	GRN	NEP (Engine speed signal)	Detects engine speed signal.	17-GND	Engine idling.	Approx. 6 V (12 V ↔ 0 V)
18	BRN/WHT	STR GND (Steering angle sensor ground)	Ground for the steering angle sensor.	18-GND		Below 0.3 V
19	BLK	GSEN SELD (Lg sensor shield)	Lg sensor line shield.	19-GND	Check for continuity.	There is continuity.