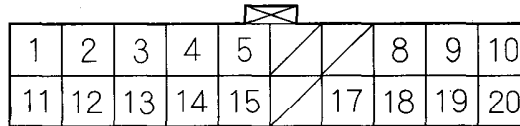




## Navigation Unit Inputs and Outputs for Connector A (20P)



Wire side of female terminals

Terminal Number	Wire Color	Terminal Name	Description	Voltage (about)	Symptom
1	WHT	R SIG (Red signal)	Red color signal	0–1 V	If open: Red color missing (see “RGB Color” diagnostic). If short to ground: Red color missing (see “RGB Color” diagnostic).
2	RED	G SIG (Green signal)	Green color signal	0–1 V	If open: Green color missing (see “RGB Color” diagnostic). If short to ground: Green color missing (see “RGB Color” diagnostic).
3	GRY	SH SIG (Shield signal)	Shield for terminal No. 1, 2, 11, 12, 13	0 V	If open: No change to display. If short to ground: No change to display.
4	ORN	A/C-SI (Air conditioner serial in)	Communication signal for climate control unit		
5	GRY	ILL (+) (Illumination positive)	Parking light on signal	Lights on: battery voltage, Lights off: 0 V	If open: When brightness = “Auto,” night mode for the display is inoperative when lights on. If short to ground: Blows No. 4 (10 A) fuse in underhood fuse/relay box.
8	WHT	CAN-H (CAN high)	F-CAN bus communication	Pulses 2.5–6 V average 3 V	If open: 1) System Links FI-ECU, and Meter both show “NG.” 2) F-CAN diagnostic = “NG.” 3) B-CAN diagnostic = “NG.” 4) Car status CHG (CAN) = 0. 5) Functional Setup, Trip info, FUP & Sampled FL = 0. If short to ground: Same diagnostic conditions as when open, and also sets the following DTCs. • B1168 Gauge Control Module loss of Comm. (Engine) • B1169 Gauge Control Module loss of Comm. (A/T) • B1178 F-CAN communication Circuit error. • U0073 (F-CAN bus off) • U0155 (F-CAN Gauge control module) • U0121 (F-CAN VSA control)
9	GRY	SH DISP BUS (Shield display bus)	Shield for display bus terminal No. 10, 20	0 V	If open: No change to display. If short to ground: No change to display.
10	GRN	DISP BUS (+) (Display bus positive)	Data bus (+) GA-Net	0–5 V pulses average 2.5 V depends on bus traffic	If open: Navigation buttons do not work. If short to ground: Navigation buttons do not work.

(cont'd)