

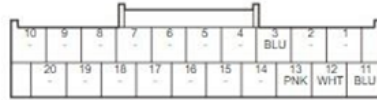
AUDIO UNIT CONNECTOR A (24P)



Wire side of female terminals

Cavity	Terminal Name	Description	Voltage (about)	Symptom
A1	GND	Ground for audio unit (G404)	Vehicle in ACCESSORY mode: Less than 0.2 V	If open: Audio unit screen goes black (backlight still operates). Audio system does not work.  If short to ground: No effect on system.
A2	Not used	----	----	----
A3	+ B BACKUP MAIN	Continuous power source	Battery voltage	If open: Audio unit screen goes black. Audio system does not work.  If short to ground: Blows the No. B21 (15 A) fuse in the under-hood fuse/relay box.
A4	Not used	----	----	----
A5	RL SPKR +	Outputs sound signal for left rear speaker	----	----
A6	RL SPKR -	Outputs sound signal for left rear speaker	----	----
A7	Not used	----	----	----
A8	Not used	----	----	----
A9	RR SPKR +	Outputs sound signal for right rear speaker	----	----
A10	RR SPKR -	Outputs sound signal for right rear speaker	----	----
A11	REMOTE SW GND	Audio remote switch ground	Vehicle in ACCESSORY mode: Less than 0.2 V	----
A12	Not used	----	----	----
A13	K LINE	Detects scan tool signal (serial data)	----	----
A14	Not used	----	----	----
A15	FL SPKR +	Outputs sound signal for left front speakers	----	----
A16	FL SPKR -	Outputs sound signal for left front speakers	----	----
A17	Not used	----	----	----
A18	Not used	----	----	----
A19	FR SPKR +	Outputs sound signal for right front speakers	----	----
A20	FR SPKR -	Outputs sound signal for right front speakers	----	----
A21	Not used	----	----	----
A22	AUDIO REMOTE SW	Detects control signal from audio remote switch	Vehicle in ACCESSORY mode: 2.5 V - 2.9 V	----
A23	DISPLAY SW	Detects control signal from audio remote switch	Vehicle in ACCESSORY mode: 2.5 V - 2.9 V	----
A24	ACC	Power source for accessories	Vehicle in ACCESSORY mode: Battery voltage	If open: Audio unit screen goes black. Audio system does not work.  If short to ground: Blows the No. C37 (7.5 A) fuse in the under-dash fuse/relay box.

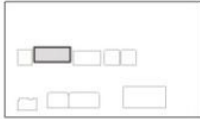
AUDIO UNIT CONNECTOR B (20P)



Wire side of female terminals

Cavity	Terminal Name	Description	Voltage (about)	Symptom
B1	Not used	----	----	----
B2	Not used	----	----	----
B3	B-CAN_L	Communication signal	----	If open/short to ground: System Links B-CAN icon shows red.
B4	Not used	----	----	----
B5	Not used	----	----	----
B6	Not used	----	----	----
B7	Not used	----	----	----
B8	Not used	----	----	----
B9	Not used	----	----	----
B10	Not used	----	----	----
B11	PARKING BRAKE SW	Detects parking brake switch on signal	Vehicle in ACCESSORY mode, parking brake switch is applied: Less than 0.2 V  Vehicle in ACCESSORY mode, parking brake switch is not applied: 3.3 V	----
B12	HFT/NAVI REMOTE SW	Detects control signal from HFL switch	Vehicle in ACCESSORY mode: 2.5 V - 2.9 V	----
B13	B-CAN_H	Communication signal	----	If open/short to ground: System Links B-CAN icon shows red.
B14	Not used	----	----	----
B15	Not used	----	----	----
B16	Not used	----	----	----
B17	Not used	----	----	----
B18	Not used	----	----	----
B19	Not used	----	----	----
B20	Not used	----	----	----

AUDIO UNIT CONNECTOR C (24P)



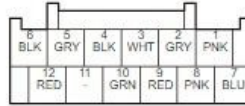
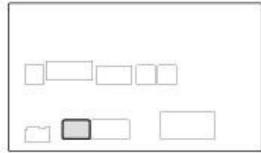
Wire side of female terminals

\*: With LaneWatch

Cavity	Terminal Name	Description	Voltage (about)	Symptom
C1	F-CAN_L	Communication signal	----	If open/short to ground: System Links F-CAN icon shows red.
C2	SH CAMERA	Shield for terminals No. 3, No. 4, No. 15, and No. 16	----	----
C3	CAMERA V GND	Ground for video signal	Vehicle in ACCESSORY mode: Less than 0.2 V	----
C4	RC GND	Ground for rear view camera for power source	Vehicle in ACCESSORY mode: Less than 0.2 V	----
C5	CAMERA BIT0	Mode select signal for rearview camera	0 V or 5 V - 8 V (depends on rearview mode)	----
C6*	LANEWATCH SW	LaneWatch on/off signal from LaneWatch switch	Vehicle in ACCESSORY mode, LaneWatch switch is pressed: Less than 0.2 V  Vehicle in ACCESSORY mode, LaneWatch switch is released: 3.3 V	----
C7	BACK LT	Detects reverse signal of select lever from reverse relay circuit	Vehicle in ON mode, transmission is shifted to R position/mode: Battery voltage  Vehicle in ON mode, transmission is shifted to any position/mode other than R position/mode: Less than 0.2 V	----
C8*	LWC CAM VGND	Ground for LaneWatch camera	----	----
C9*	SH LWC CAM	Shield for terminals No. 8, No. 20, No. 21, No. 22, and No. 23	----	----
C10	Not used	----	----	----
C11	Not used	----	----	----
C12	Not used	----	----	----
C13	F-CAN_H	Communication signal	----	If open/short to ground: System Links F-CAN icon shows red.
C14	Not used	----	----	----
C15	CAMERA V	Video signal for rearview camera	----	----
C16	RC VCC	Power source for rearview camera	Vehicle in ACCESSORY mode: 8 V	----
C17	Not used	----	----	----
C18	CAMERA BIT1	Mode select signal for rearview camera	0 V or 5 V - 8 V (depends on rearview mode)	----
C19	CAMERA ADPT	Detects connection for rearview camera	Less than 0.2 V	If open: System Links Rear Wide Camera icon shows red.
C20*	LWC CAM VID	Video signal for LaneWatch camera	----	----
C21*	LWC CAM VCC	Power source for LaneWatch camera	Vehicle in ACCESSORY mode: 8 V	----
C22*	UNIT TO LWC	Communication signal for LaneWatch camera	----	If open/short to ground: System Links LaneWatch icon shows red.
C23*	LWC TO UNIT	Communication signal for LaneWatch camera	----	If open/short to ground: System Links LaneWatch icon shows red.
C24	Not used	----	----	----

\*: With LaneWatch

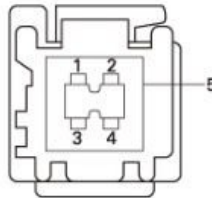
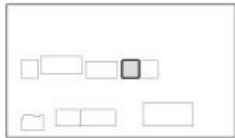
**AUDIO-NAVIGATION UNIT CONNECTOR D (12P)**



Wire side of female terminals

Cavity	Terminal Name	Description	Voltage (about)	Symptom
D1	GA BUS-	GA-Net bus communication signal	----	If open/short to ground: System Links XM icon shows red.
D2	SH GA BUS	Shield for terminals No. 1 and No. 7	----	----
D3	GA AUDIO L-	Inputs sound signal from XM receiver	----	----
D4	GA AUDIO R-	Inputs sound signal from XM receiver	----	----
D5	SH GA AUDIO	Shield for terminals No. 3, No. 4, No. 9, and No. 10	----	----
D6	GA GND	GA-Net related units ground	Vehicle in ACCESSORY mode: Less than 0.2 V	If open: System Links XM icon shows red.
D7	GA BUS+	GA-Net bus communication signal	----	If open/short to ground: System Links XM icon shows red.
D8	GA SYS ON	Output signal for GA-Net related units switching on/off	Vehicle in ACCESSORY mode: Less than 0.2 V  Vehicle in OFF (LOCK) mode: 3.3 V - Battery voltage (depends on connected slave unit)	If open: System Links XM icon shows red.
D9	GA AUDIO L+	Inputs sound signal from XM receiver	----	----
D10	GA AUDIO R+	Inputs sound signal from XM receiver	----	----
D11	Not used	----	----	----
D12	GA+ B	Outputs power source for GA-Net related units	Battery voltage	If open/short to ground: System Links XM icon shows red.

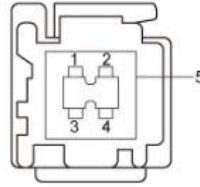
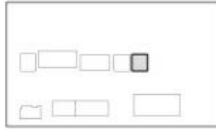
**AUDIO UNIT CONNECTOR F (5P)**



Terminal side of female terminals

Cavity	Terminal Name	Description	Voltage (about)	Symptom
F1	USB1 GND	Ground for communication signal	----	----
F2	USB1 VBUS	Outputs power source for USB port A	----	----
F3	USB1 DATA+	Communication signal	----	----
F4	USB1 DATA-	Communication signal	----	----
F5	USB1 SH	Shield for terminals No. 1, No. 2, No. 3, and No. 4	----	----

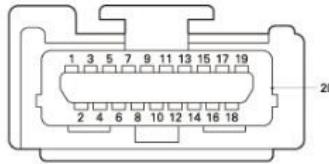
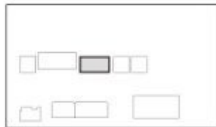
**AUDIO UNIT CONNECTOR G (5P)**



Terminal side of female terminals

Cavity	Terminal Name	Description	Voltage (about)	Symptom
G1	USB2 GND	Ground for communication signal	-----	-----
G2	USB2 VBUS	Outputs power source for USB port B	-----	-----
G3	USB2 DATA+	Communication signal	-----	-----
G4	USB2 DATA-	Communication signal	-----	-----
G5	USB2 SH	Shield for terminals No. 1, No. 2, No. 3, and No. 4	-----	-----

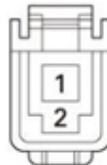
**AUDIO UNIT CONNENTOR H (20P)**



Terminal side of female terminals

Cavity	Terminal Name	Description	Voltage (about)	Symptom
H1	T.M.D.S DATA2+	Inputs video/audio data signal	-----	-----
H2	T.M.D.S DATA2 SHIELD	Shield for terminals No. 1 and No. 3	-----	-----
H3	T.M.D.S DATA2-	Inputs video/audio data signal	-----	-----
H4	T.M.D.S DATA1+	Inputs video/audio data signal	-----	-----
H5	T.M.D.S DATA1 SHIELD	Shield for terminals No. 4 and No. 6	-----	-----
H6	T.M.D.S DATA1-	Inputs video/audio data signal	-----	-----
H7	T.M.D.S DATA0+	Inputs video/audio data signal	-----	-----
H8	T.M.D.S DATA 0 SHIELD	Shield for terminals No. 7 and No. 9	-----	-----
H9	T.M.D.S DATA0-	Inputs video/audio data signal	-----	-----
H10	T.M.D.S CLOCK+	TMDS synchronous signal	-----	-----
H11	T.M.D.S CLOCK SHIELD	Shield for terminals No. 10 and No. 12	-----	-----
H12	T.M.D.S CLOCK-	TMDS synchronous signal	-----	-----
H13	CEC	HDMI control signal	-----	-----
H14	UTILITY	Not used	-----	-----
H15	SCL	I2C bus synchronous signal	-----	-----
H16	SDA	I2C bus communication signal	-----	-----
H17	DDC.CEC GROUND	Ground for HDMI control signal	-----	-----
H18	+ 5V POWER	5 V power supply	-----	-----
H19	HOT PLUG DETECT	Detects connection signal	-----	-----
H20	SHIELD	Shield for all of terminals	-----	-----

**AUDIO UNIT CONNECTOR J (2P)**



Terminal side of female terminals

Cavity	Terminal Name	Description	Voltage (about)	Symptom
J1	GPS	-----	-----	If open/short to ground: System Links GPS antenna icon shows red.
J2	SH (GPS)	-----	-----	If open: System Links GPS antenna icon shows red.