

Connection Jack	Pin	Circuit Name	Input/Output Type	Circuit Amps	Electrical/Limo Function	Device/Area Control	Circuitry Control Notes	Button on Driver's Panel	Button on Passenger's Panel	SmartCoach 4-Alpha	General Notes
J6	1	LL2	Logic-Level 1	7A	AC-Freon Valve	HVAC		"A/C"	"AC"	#COOL	Operation is Transparent to HVAC System
J6	2	LL1	Logic-Level 2	7A	Heater Valve	HVAC		"Heat"	"Heat"	#HEAT	Operation is Transparent to HVAC System
J6	3	LL3	Logic-Level 3	7A	Fiber Illuminator Power	Fiber Lights		n/a	"Neon"	#L3TG	
J6	4	LL4	Logic-Level 4	7A	Fiber Illuminator - Blue Wire	Fiber Lights		n/a	"Neon Effect"	#L4TG	Set Output Type to 'Toggle'
J6	5	LL5	Logic-Level 5	7A	RGB (Disco) White Control	RGB White		n/a	"RGB Disco White"	#L5TG	Set Output Type to 'Toggle'
J6	6	LL6	Logic-Level 6	7A	Rear Video Trigger	Camera Input to Screen		"Sw to Video"	"Sw to Video"	#L6ON	(Was AUX on Drvr) Set's Output On; Screen Touch Turn's Off Again
J6	7	LL7	Logic-Level 7	7A	Exterior Underglow 3-Ch Blue Wire	Underglow Lights Effect	Changes Color-Show	"Underglow Effect"	n/a	#SP65	Multi-Command: When Pressed, Set LL7 Output Type to 'Toggle', and Force LL8 to 'Off'
J6	8	LL8	Logic-Level 8	7A	Exterior Underglow 3-Ch White Wire	Underglow Lights White	Makes Outputs 'White'	"Underglow White"	n/a	#L8TG	Set Output LL8 to 'Toggle'
J6	9	LL9	Logic-Level 9	7A	Front Video Trigger	Camera Input to Screen		"Cabin Camera"	n/a	#L9ON	Set's Output On; Screen Touch Turn's Off Again
J6	10	LL10	Logic-Level 10	7A	Underglow Lts LED Power	Underglow Lights LED Pwr	On-Off Control	"Underglow"	N/A	#LATG	Set Output Type to 'Toggle'
J6	11	LL11	Logic-Level 11	7A	RGB (Disco) Blue Wire	Interior LED Lights	Changes Color-Show	n/a	"Lighting Effect"	#SP67	Set Output Blue Effects Wire to 'Toggle', LL5 to Off
J6	12	LL12	Logic-Level 12	7A	Laser	Passenger Compartment Laser		n/a	"Laser"	#LCTG	Set Output Type to 'Toggle'
J6	13	LL13	Logic-Level 13	7A	Interior Strobes	Passenger Compartment Strobes		n/a	"Strobe"	#LDTG	Set Output Type to 'Toggle'
J6	14	LL14	Logic-Level 14	7A	Exterior Strobes			"Strobe"	n/a	#LETG	Set Output Type to 'Toggle'
J6	15	LL15	Logic-Level 15	7A	Exterior Strobes Effect Trigger			"Strobe Effect"	n/a	#LEPB	LL15 Output Set to 'Push-Button' Mode
J6	16	LL16	Logic-Level 16	7A	Intercom Power	Intercom		"Intercom"	"Intercom"	#LGTG	Set Output Type to 'Toggle'
J16	1	DIM1	Dimmer 1	15A	Mood Lights (NFD)	General Lighting		n/a	"Mood"	D1CY	3-Level Cycle to Off
J16	2	DIM2	Dimmer 2	15A	12-Ch LEDs: 'Ceiling' and 'Divider'	Passenger LED Lights	Controlled by 1 Button	"Lighting"	"Lighting"	SP01	3-Level Cycle to Off
J17	4	DIM3	Dimmer 3	15A	12-Ch LEDs: 'Bar' and 'Floor'	Passenger LED Lights	Controlled by 1 Button	"Lighting"	"Lighting"	SP01	3-Level Cycle to Off
J17	1	IGN1	Ign Sw Pwr	20A	Auxiliary (e.g. "Cig Lighter") Power	Fused Battery Power	Controlled Internally	n/a	n/a	n/a	Follows 'Ignition Sens' Input: If Ign is On, this Output is also On.
J16	3	AUX1	Aux-Out 1	5A	Radio, Amp, PC - Switched	Entertainment Device Power		"Audio/TV/PC"	n/a	SP02	Paired in Function with 'TV' Output Below
J16	4	AUX2	Aux-Out 2	20A	TV (Accessible via Touchscreen Only)	TV Video Screens		"Audio/TV/PC"	n/a	SP02	Paired in Function with 'Radio' Output Above
J15	1	DIM1	HVAC Fan 1	35A	HVAC Fan #1 Variable Output	HVAC System Related	HVAC Controlled	HVAC Btns	HVAC Btns	n/a	
J15	2	DIM2	HVAC Fan 2	35A	HVAC Fan #2 Variable Output	HVAC System Related	HVAC Controlled	HVAC Btns	HVAC Btns	n/a	
J15	3	DIM3	HVAC Fan 3	35A	HVAC Fan #3 Variable Output	HVAC System Related	HVAC Controlled	HVAC Btns	HVAC Btns	n/a	
J17	2	CFAN1	CFAN 1	20A	Condenser Fan #1 (Ramping Out)	HVAC System Related	HVAC Controlled	HVAC Btns	HVAC Btns	n/a	
J17	3	CFAN2	CFAN 2	20A	Condenser Fan #2 (Ramping Out)	HVAC System Related	HVAC Controlled	HVAC Btns	HVAC Btns	n/a	
J11	1	M1	Motor	20A Peak	Reversible Motor #1 - Forward Lead	Partition/Sofa/Chair				M1PB	
J11	2	M2	Motor	20A Peak	Reversible Motor #1 - Reverse Lead	Partition/Sofa/Chair				M2PB	Motor Common (Pins 2, 4, 6, and 8 are tied together)
J11	3	M3	Motor	20A Peak	Reversible Motor #2 - Forward Lead	Partition/Sofa/Chair				M3PB	
J11	4	M4	Motor	20A Peak	Reversible Motor #2 - Reverse Lead	Partition/Sofa/Chair				M4PB	Motor Common (Pins 2, 4, 6, and 8 are tied together)
J11	5	M5	Motor	20A Peak	Reversible Motor #3 - Forward Lead	Partition/Sofa/Chair				M5PB	
J11	6	M6	Motor	20A Peak	Reversible Motor #3 - Reverse Lead	Partition/Sofa/Chair				M6PB	Motor Common (Pins 2, 4, 6, and 8 are tied together)
J11	7	M7	Motor	20A Peak	Reversible Motor #4 - Forward Lead	Partition/Sofa/Chair				M7PB	
J11	8	M8	Motor	20A Peak	Reversible Motor #4 - Reverse Lead	Partition/Sofa/Chair				M8PB	Motor Common (Pins 2, 4, 6, and 8 are tied together)
J12	1	IGN	Ignition Sens	n/a	Vehicle Ignition Sens Input	Control Input Only	+12V is 'On'	n/a	n/a	n/a	<b>Connect This Input To OEM Vehicle's Ignition</b>
J12	2	DOVE	Dome Sens	n/a	Vehicle Dome Lighting Sens Input	Control Input Only	Ground is 'On'	n/a	n/a	n/a	<b>Connect This Input To Vehicle's Dome Switch or Circuit</b>
J12	3	LOIN1	Lo-Side In 1	n/a	Aux Input #1 - Gnd = On	Control Input Only	Ground is 'On'	n/a	n/a	n/a	<b>Input Only</b>
J12	4	LOIN2	Lo-Side In 2	n/a	Aux Input #2 - Gnd = On	Control Input Only	Ground is 'On'	n/a	n/a	n/a	<b>Input Only</b>
J12	5	LOIN3	Lo-Side In 3	n/a	Aux Input #3 - Gnd = On	Control Input Only	Ground is 'On'	n/a	n/a	n/a	<b>Input Only</b>
J12	6	LOIN4	Lo-Side In 4	n/a	Aux Input #4 - Gnd = On	Control Input Only	Ground is 'On'	n/a	n/a	n/a	<b>Input Only</b>
J12	7	LOIN5	Lo-Side In 5	n/a	Aux Input #5 - Gnd = On	Control Input Only	Ground is 'On'	n/a	n/a	n/a	<b>Input Only</b>
J12	8	JMPIN	Jump Input	n/a	Gnd to Jump Batteries	Control Input Only	Ground is 'On'	n/a	n/a	n/a	<b>(Optional) Connect to External Grounding Push-Button</b>
J12	9	OEM	OEM Batt Sens	n/a	Veh OEM Batt Voltage Input (Use fuse or Resistor at Source to Protect)	OEM Battery Voltage Sens		n/a	n/a	n/a	<b>Connect Protected Wire From Car OEM Battery To Here So System Can Display OEM Battery Voltage</b>
J12	10	JMPOUT	Jump Output	250 mA	Connect to Jump Relay	Control Input Only		n/a	n/a	n/a	<b>+12V Output to 'Batt Jump Solenoid' (Gnd Other Solenoid Coil Terminal)</b>
J12	11	DR_OPEN	Open Door	500 mA	500 mA Current Limited/Protected Output	Control Input Only		n/a	n/a	n/a	<b>Use Ext Relay And Fuse If More Power Needed</b>
J12	12	DR_CLOS	Close Door	500 mA	Connect to Relay if more power needed	Relay Coil Input Only		n/a	n/a	n/a	<b>Use Ext Relay And Fuse If More Power Needed</b>
J12	13	DAC1	Var Volt 1	5 mA	PWM (Variable) Output Voltage	For Ext HVAC Units		n/a	n/a	n/a	<b>Low-Power Output Only</b>
J12	14	DAC2	Var Volt 2	5 mA	PWM (Variable) Output Voltage	For Ext HVAC Units		n/a	n/a	n/a	<b>Low-Power Output Only</b>
J12	15	GND1	Gnding Out #1	< 250 mA	Low-Current Grounding Output	Grounding Output	Intercom Audio Mute	n/a	n/a	n/a	<b>Often Used As "Radio Mute"</b>
J12	16	GND2	Gnding Out #2	< 250 mA	Star Illuminator Power	Star Fibers	Gnd to Relay	"Stars"	"Stars"	n/a	<b>Can Be Used To Control External Relay If Needed</b>
J12	17	GND3	Gnding Out #3	< 250 mA	Low-Current Grounding Output	Grounding Output		n/a	n/a	n/a	<b>Can Be Used To Control External Relay If Needed</b>
J12	18	IR_VCC	IR Rx Power	n/a	IR Receiver Filtered Operating Voltage	Relay Coil Input Only		n/a	n/a	n/a	<b>Used For Infra-Red Receiver</b>
J12	19	IR_RX	IR Rx Input	n/a	IR Receiver Data Input	Control Input Only		n/a	n/a	n/a	<b>Used For Infra-Red Receiver</b>
J12	20	GND	Ground	n/a	Ground for Reference Only	Ground		n/a	n/a	n/a	<b>Reference Ground (Low-Current Draw Only)</b>
J12	21	IR_AN	IR Tx Anode	n/a	Infra-Red Transmitter Positive Pin	IR Tx Anode		n/a	n/a	n/a	<b>Used For Infra-Red Transmitter</b>
J12	22	IR_CA	IR Tx Cathode	n/a	Infra-Red Transmitter Negative Pin	IR Tx Cathode		n/a	n/a	n/a	<b>Used For Infra-Red Transmitter</b>
J12	23	BATT_F	Fused Batt	n/a	Fused Battery Voltage	Constant Supply		n/a	n/a	n/a	<b>100 mA Load Max</b>
J12	24	GND	Ground	n/a	Ground for Reference Only	Ground		n/a	n/a	n/a	<b>Reference Ground (Low-Current Draw Only)</b>