

## Cable Wire Device Connections

Yellow/CN-Panel/H

Cable Wires	Circuit ID Circuit Name	Device Name Terminal Wire Count	Device Type Device Terminal Connection
<b>1A-S05</b>		To/From: BR 4/5 Shower (@Floor Temp Sensor)	18-2
Black "Terminal A"	1A-S05 Floor Temperature - LL South Zone	"Thermostat, LL Floor, South Zone" 1	Floor Heat Thermostat #3 Sensor Input / 1 / Com
Red "Terminal B"	1A-S05 Floor Temperature - LL South Zone	"Thermostat, LL Floor, South Zone" 1	Floor Heat Thermostat #3 Sensor Input / 2 / S1
<b>1C-A02</b>		To/From: Long Hall	Cat 5e
White/Orange "Return"	1C-A02 Long Hall: Thermostat	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 WDU I/O / GND (a)
Orange "Clock"	1C-A02 Long Hall: Thermostat	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 WDU I/O / CLOCK
White/Green "Return"	1C-A02 Long Hall: Thermostat	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 WDU I/O / GND (b)
Green "Data"	1C-A02 Long Hall: Thermostat	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 WDU I/O / DATA
White/Blue "+12 Vdc"	1C-A02 Long Hall: Thermostat	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 WDU I/O / +12VDC (a)
Blue "+12Vdc"	1C-A02 Long Hall: Thermostat	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 WDU I/O / +12VDC (b)
<b>1F-A03</b>		To/From: Theater	Cat 5e
White/Orange "Return"	1F-A03 Theater: Thermostat	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 WDU I/O / GND (a)
Orange "Clock"	1F-A03 Theater: Thermostat	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 WDU I/O / CLOCK
White/Green "Return"	1F-A03 Theater: Thermostat	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 WDU I/O / GND (b)
Green "Data"	1F-A03 Theater: Thermostat	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 WDU I/O / DATA
White/Blue "+12 Vdc"	1F-A03 Theater: Thermostat	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 WDU I/O / +12VDC (a)
Blue "+12Vdc"	1F-A03 Theater: Thermostat	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 WDU I/O / +12VDC (b)
<b>1F-S07</b>		To/From: Theater (@Floor Temp Sensor)	18-2
Black "Terminal A"	1F-S07 Floor Temperature - LL Central Zone	"Thermostat, LL Floor, Central Zone" 1	Floor Heat Thermostat #4 Sensor Input / 1 / Com
Red "Terminal B"	1F-S07 Floor Temperature - LL Central Zone	"Thermostat, LL Floor, Central Zone" 1	Floor Heat Thermostat #4 Sensor Input / 2 / S1
<b>1H-S10</b>		To/From: Changing Room A (@Floor Temp Sensor)	18-2
Black "Terminal A"	1H-S10 Floor Temperature - LL NE Zone	"Thermostat, LL Floor, Northeast Zone" 1	Floor Heat Thermostat #5 Sensor Input / 1 / Com

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<b>Red</b> "Terminal B"	1H-S10 Floor Temperature - LL NE Zone	"Thermostat, LL Floor, Northeast Zone" 1	Floor Heat Thermostat #5 Sensor Input / 2 / S1
<b>1K-A02</b>		To/From: Shop	Cat 5e
<b>White/Orange</b> "Return"	1K-A02 Shop: Thermostat	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 WDU I/O / GND (a)
<b>Orange</b> "Clock"	1K-A02 Shop: Thermostat	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 WDU I/O / CLOCK
<b>White/Green</b> "Return"	1K-A02 Shop: Thermostat	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 WDU I/O / GND (b)
<b>Green</b> "Data"	1K-A02 Shop: Thermostat	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 WDU I/O / DATA
<b>White/Blue</b> "+12 Vdc"	1K-A02 Shop: Thermostat	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 WDU I/O / +12VDC (a)
<b>Blue</b> "+12Vdc"	1K-A02 Shop: Thermostat	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 WDU I/O / +12VDC (b)
<b>1K-A07</b>		To/From: Shop	18-4
<b>Black</b> "Common"	1K-A07 Shop: Gas Heater Controls	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 HVAC System / RC 24
<b>Red</b> "Heat"	1K-A07 Shop: Gas Heater Controls	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 HVAC System / W1 HEAT
<b>White</b> "Fan"	1K-A07 Shop: Gas Heater Controls	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 HVAC System / G FAN
<b>1K-S10</b>		To/From: Shop (@Floor Temp Sensor)	18-2
<b>Black</b> "Terminal A"	1K-S10 Floor Temperature - Shop	"Thermostat, Shop Floor" 1	Floor Heat Thermostat #2 Sensor Input / 1 / Com
<b>Red</b> "Terminal B"	1K-S10 Floor Temperature - Shop	"Thermostat, Shop Floor" 1	Floor Heat Thermostat #2 Sensor Input / 2 / S1
<b>1L-27</b>		To/From: "Yellow/CB-Panel/Emer" & Others	12-2
<b>White</b> "Neutral"	1L-27 White & Yellow Panels Emerg Power	"24 Vac For Thermostats, Emerg Power" 1	Transformer, 24 Vac, 50W Power In (120 Vac) / Neutral
<b>Black</b> "Hot"	1L-27 White & Yellow Panels Emerg Power	"24 Vac For Thermostats, Emerg Power" 1	Transformer, 24 Vac, 50W Power In (120 Vac) / Hot
<b>1L-A09</b>		To/From: "White/CN-Panel/2"	22-4 (S)
<b>Black</b> "Signal"	1L-A09 Yellow HVAC: Cabinet Fan Drive	"Enclosure Vent Fan & Temp Sensor" 1	Fan & Sensor Kit, Cabinet Fan Power In / Fan -
<b>Red</b> "Power"	1L-A09 Yellow HVAC: Cabinet Fan Drive	"Enclosure Vent Fan & Temp Sensor" 1	Fan & Sensor Kit, Cabinet Fan Power In / Fan +
<b>White</b> "Select"	1L-S13 Yellow HVAC: Cabinet Temperature	"Enclosure Vent Fan & Temp Sensor" 1	Fan & Sensor Kit, Cabinet Temp Sensor Output / (Sensor) +

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<b>Green</b> "Signal"	1L-S13 Yellow HVAC: Cabinet Temperature	"Enclosure Vent Fan & Temp Sensor" 1	Fan & Sensor Kit, Cabinet Temp Sensor Output / (Sensor) -
<b>Shield</b> "Shield"	1L-S13 Yellow HVAC: Cabinet Temperature	"Enclosure Vent Fan & Temp Sensor" 1	Fan & Sensor Kit, Cabinet Temp Sensor Output / GND
<b>1L-A136</b>	To/From: No External Connections		18-2
<b>Black</b> "24 Vac A"	1L-A136 Mech Room: HVAC 24 Vac Power	"24 Vac For Thermostats, Emerg Power" 1	Transformer, 24 Vac, 50W Power Output / Secondary B
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 Power In (24 Vac) / 24R
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 Power In (24 Vac) / 24R
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 Power In (24 Vac) / 24R
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 Power In (24 Vac) / 24R
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 Power In (24 Vac) / 24R
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 Power In (24 Vac) / 24R
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 Power In (24 Vac) / 24R
	1L-A136 Mech Room: HVAC 24 Vac Power	"Thermostat Mud Room/Laundry" 1	Floor Heat Thermostat #7 Power In (24 Vac) / 3 / C
<b>Red</b> "24 Vac B"	1L-A136 Mech Room: HVAC 24 Vac Power	"24 Vac For Thermostats, Emerg Power" 1	Transformer, 24 Vac, 50W Power Output / Secondary A
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 Power In (24 Vac) / 24C
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 Power In (24 Vac) / 24C
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 Power In (24 Vac) / 24C
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 Power In (24 Vac) / 24C
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 Power In (24 Vac) / 24C
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 Power In (24 Vac) / 24C
	1L-A136 Mech Room: HVAC 24 Vac Power	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 Power In (24 Vac) / 24C
	1L-A136 Mech Room: HVAC 24 Vac Power	"Thermostat Mud Room/Laundry" 1	Floor Heat Thermostat #7 Power In (24 Vac) / 4 / R
<b>1L-A172</b>	To/From: "White/CN-Panel/2"		22-4
<b>Black</b> "Return"	1L-A172 HVAC Call - Upper	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Return
	1L-A173 HVAC Call - North	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Return
	1L-A174 HVAC Call - South	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Return

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<b>Red</b> "Switched"	1L-A172 HVAC Call - Upper	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Ch 1 Out
<b>White</b> "Switched"	1L-A173 HVAC Call - North	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Ch 2 Out
<b>Green</b> "Switched"	1L-A174 HVAC Call - South	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Ch 3 Out
<b>1L-A175</b>	To/From: No External Connections		22-4
<b>Black</b> "Cool"	1L-A175 Upper Heat or Cool Call	"HVAC Control, Upper Level" 2	TR60 HVAC Control Unit #1 HVAC System / Y1 COMP
	1L-A175 Upper Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / Y1
<b>Red</b> "Return"	1L-A175 Upper Heat or Cool Call	"HVAC Control, Upper Level" 2	TR60 HVAC Control Unit #1 HVAC System / RH 24
	1L-A175 Upper Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / C1
<b>White</b> "Heat"	1L-A175 Upper Heat or Cool Call	"HVAC Control, Upper Level" 2	TR60 HVAC Control Unit #1 HVAC System / W1 HEAT
	1L-A175 Upper Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / W1
<b>1L-A176</b>	To/From: "Zone Ctrl 1L-N"		22-4
<b>Black</b> "Cool"	1L-A176 North Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / Y2
<b>Red</b> "Return"	1L-A176 North Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / C2
<b>White</b> "Heat"	1L-A176 North Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / W2
<b>1L-A177</b>	To/From: "Zone Ctrl 1L-S"		22-4
<b>Black</b> "Cool"	1L-A177 South Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / Y3
<b>Red</b> "Return"	1L-A177 South Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / C3
<b>White</b> "Heat"	1L-A177 South Heat or Cool Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / W3
<b>1L-A211</b>	To/From: "Snow Melt 1L-B1"		22-2
<b>Black</b> "W"	1L-A211 Snow Melt South Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / W4
<b>Red</b> "R"	1L-A211 Snow Melt South Call	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete In / C4

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<b>1L-A212</b>		To/From: "White/CN-Panel/2"	22-4
Black "Return"	1L-A212 Call - Load Group B	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Return
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Return
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Return
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Return
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Return
	1L-A217 Call - Water Heaters	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete Output / Return
	1L-A217 Call - Water Heaters	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete Output / Return
Red "Signal"	1L-A212 Call - Load Group B	"HVAC Call Monitor #1" 1	HVAC Call Adapter #1 Discrete Output / Ch 4 Out
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Ch 1 Out
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Ch 2 Out
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Ch 3 Out
	1L-A212 Call - Load Group B	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete Output / Ch 4 Out
White "Signal"	1L-A217 Call - Water Heaters	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete Output / Ch 1 Out
	1L-A217 Call - Water Heaters	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete Output / Ch 2 Out
<b>1L-A213</b>		To/From: "Snow Melt 1L-B2"	22-2
Black "W"	1L-A213 Snow Melt North Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / W1
Red "R"	1L-A213 Snow Melt North Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / C1
<b>1L-A214</b>		To/From: "Floor Heat 1L-B3"	22-2
Black "W"	1L-A214 Floor Heat Interior Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / W2
Red "R"	1L-A214 Floor Heat Interior Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / C2
<b>1L-A215</b>		To/From: "Floor Heat 1L-B4"	22-2
Black "W"	1L-A215 Mech Room: Floor Heat Garage Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / W3
Red "R"	1L-A215 Mech Room: Floor Heat Garage Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / C3

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<b>1L-A216</b> To/From: "Floor Heat 1L-B5" 22-2			
Black "W"	1L-A216 Floor Heat Shop Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / W4
Red "R"	1L-A216 Floor Heat Shop Call	"HVAC Call Monitor #2" 1	HVAC Call Adapter #2 Discrete In / C4
<b>1L-A219</b> To/From: "White/GP-Panel/1" 22-4			
Black "Return"	1L-A219 Water Heater North Call Monitor	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete In / C1
Red "Signal"	1L-A219 Water Heater North Call Monitor	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete In / W1
White "Signal"	1L-A220 Water Heater South Call Monitor	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete In / W2
Green "Return"	1L-A220 Water Heater South Call Monitor	"Water Heater Call Monitor" 1	HVAC Call Adapter #3 Discrete In / C2
<b>1L-A221</b> To/From: Mech Room (@House Floor Heat Boiler) 18-4			
Black "Common"	1L-A221 Floor Heat Call - Mud/Laundry Room	"Thermostat Mud Room/Laundry" 1	Floor Heat Thermostat #7 Valve Drive / Com
Red "Heat Call"	1L-A221 Floor Heat Call - Mud/Laundry Room	"Thermostat Mud Room/Laundry" 1	Floor Heat Thermostat #7 Valve Drive / 5 / Heat
<b>1L-A222</b> To/From: Mech Room (@Garage/Shop Floor Heat) 18-2			
Black "24Vac Return"	1L-A222 Garage Zone Valve Power	"Relay, Floor Heat Enable, Garage/Shop" 1	Relay, SPDT, 24 Vdc (Plug-In) #1 NO Input / Neutral
Red "24Vac"	1L-A222 Garage Zone Valve Power	"Relay, Floor Heat Enable, Garage/Shop" 1	Relay, SPDT, 24 Vdc (Plug-In) #1 NO Input / NO (T5)
<b>1L-A223</b> To/From: Mech Room (@House Floor Heat Boiler) 18-2			
Black "24Vac Return"	1L-A223 Interior Zone Valve Power	"Relay, Floor Heat Enable, Interior" 1	Relay, SPDT, 24 Vdc (Plug-In) #2 NO Input / Neutral
	1L-A223 Interior Zone Valve Power	"Relay, Floor Heat Enable, Master Bath" 1	Relay, SPDT, 24 Vdc (Plug-In) #3 NO Input / Neutral
Red "24Vac"	1L-A223 Interior Zone Valve Power	"Relay, Floor Heat Enable, Interior" 1	Relay, SPDT, 24 Vdc (Plug-In) #2 NO Input / NO (T5)
	1L-A223 Interior Zone Valve Power	"Relay, Floor Heat Enable, Master Bath" 1	Relay, SPDT, 24 Vdc (Plug-In) #3 NO Input / NO (T5)
<b>1L-A224</b> To/From: No External Connections 18-2			
Black "24Vac Return"	1L-A224 Garage/Shop Zone Valve Switched Power	"Relay, Floor Heat Enable, Garage/Shop" 1	Relay, SPDT, 24 Vdc (Plug-In) #1 Power Output / Neutral
	1L-A224 Garage/Shop Zone Valve Switched Power	"Thermostat, Garage Floor" 1	Floor Heat Thermostat #1 Valve Power In / Com
	1L-A224 Garage/Shop Zone Valve Switched Power	"Thermostat, Shop Floor" 1	Floor Heat Thermostat #2 Valve Power In / Com

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Red "24Vac"	1L-A224	"Relay, Floor Heat Enable, Garage/Shop" Garage/Shop Zone Valve Switched Power 1	Relay, SPDT, 24 Vdc (Plug-In) #1 Power Output / Com (T7)
	1L-A224	"Thermostat, Garage Floor" Garage/Shop Zone Valve Switched Power 1	Floor Heat Thermostat #1 Valve Power In / 6 / Heat
	1L-A224	"Thermostat, Shop Floor" Garage/Shop Zone Valve Switched Power 1	Floor Heat Thermostat #2 Valve Power In / 6 / Heat
1L-A225 To/From: No External Connections			18-2
Black "24Vac Return"	1L-A225	"Relay, Floor Heat Enable, Master Bath" Master Bath Zone Valve Switched Power 1	Relay, SPDT, 24 Vdc (Plug-In) #3 Power Output / Neutral
	1L-A225	"Thermostat, Master Bath Floor" Master Bath Zone Valve Switched Power 1	Floor Heat Thermostat #6 Valve Power In / Com
Red "24Vac"	1L-A225	"Relay, Floor Heat Enable, Master Bath" Master Bath Zone Valve Switched Power 1	Relay, SPDT, 24 Vdc (Plug-In) #3 Power Output / Com (T7)
	1L-A225	"Thermostat, Master Bath Floor" Master Bath Zone Valve Switched Power 1	Floor Heat Thermostat #6 Valve Power In / 6 / Heat
1L-A226 To/From: No External Connections			18-2
Black "24Vac Return"	1L-A226	"Relay, Floor Heat Enable, Interior" Interior Zone Valve Switched Power 1	Relay, SPDT, 24 Vdc (Plug-In) #2 Power Output / Neutral
	1L-A226	"Thermostat, LL Floor, Central Zone" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #4 Valve Power In / Com
	1L-A226	"Thermostat, LL Floor, Northeast Zone" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #5 Valve Power In / Com
	1L-A226	"Thermostat, LL Floor, South Zone" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #3 Valve Power In / Com
	1L-A226	"Thermostat Mud Room/Laundry" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #7 Valve Power In / Com
Red "24Vac"	1L-A226	"Relay, Floor Heat Enable, Interior" Interior Zone Valve Switched Power 1	Relay, SPDT, 24 Vdc (Plug-In) #2 Power Output / Com (T7)
	1L-A226	"Thermostat, LL Floor, Central Zone" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #4 Valve Power In / 6 / Heat
	1L-A226	"Thermostat, LL Floor, Northeast Zone" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #5 Valve Power In / 6 / Heat
	1L-A226	"Thermostat, LL Floor, South Zone" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #3 Valve Power In / 6 / Heat
	1L-A226	"Thermostat Mud Room/Laundry" Interior Zone Valve Switched Power 1	Floor Heat Thermostat #7 Valve Power In / 6 / Heat
1L-A25 To/From: Mech Room (@House Floor Heat Boiler)			18-4
Black "Return"	1L-A25	"Thermostat, Garage Floor" Floor Heat Call - Garage 1	Floor Heat Thermostat #1 Valve Drive / Com
White "Heat Call"	1L-A25	"Thermostat, Garage Floor" Floor Heat Call - Garage 1	Floor Heat Thermostat #1 Valve Drive / 5 / Heat
1L-A26 To/From: Mech Room (@House Floor Heat Boiler)			18-4
Black "Common"	1L-A26	"Thermostat, LL Floor, South Zone" Floor Heat Call - Lower Level - South Zone 1	Floor Heat Thermostat #3 Valve Drive / Com
White "Heat Call"	1L-A26	"Thermostat, LL Floor, South Zone" Floor Heat Call - Lower Level - South Zone 1	Floor Heat Thermostat #3 Valve Drive / 5 / Heat

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<b>1L-A27</b>		To/From: Mech Room (@House Floor Heat Boiler)	18-4
Black "Common"	1L-A27 Floor Heat Call - Master Bath	"Thermostat, Master Bath Floor" 1	Floor Heat Thermostat #6 Valve Drive / Com
White "Heat Call"	1L-A27 Floor Heat Call - Master Bath	"Thermostat, Master Bath Floor" 1	Floor Heat Thermostat #6 Valve Drive / 5 / Heat
<b>1L-A45</b>		To/From: "Zone Ctrl 1L-N"	22-6
Red "R 24 VAC"	1L-A45 Mech Room: HVAC Controls (North Main)	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 HVAC System / RH 24
White "W1 Heat"	1L-A45 Mech Room: HVAC Controls (North Main)	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 HVAC System / W1 HEAT
Green "G Fan"	1L-A45 Mech Room: HVAC Controls (North Main)	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 HVAC System / G FAN
Blue "Y1 Comp"	1L-A45 Mech Room: HVAC Controls (North Main)	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 HVAC System / Y1 COMP
<b>1L-A46</b>		To/From: "Zone Ctrl 1L-N"	22-6
Red "R 24 VAC"	1L-A46 Mech Room: HVAC Controls (North Lower)	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 HVAC System / RH 24
White "W1 Heat"	1L-A46 Mech Room: HVAC Controls (North Lower)	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 HVAC System / W1 HEAT
Green "G Fan"	1L-A46 Mech Room: HVAC Controls (North Lower)	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 HVAC System / G FAN
Blue "Y1 Comp"	1L-A46 Mech Room: HVAC Controls (North Lower)	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 HVAC System / Y1 COMP
<b>1L-A47</b>		To/From: "Zone Ctrl 1L-S"	22-6
Red "R 24 vac"	1L-A47 Mech Room: HVAC Controls (South Main)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 HVAC System / RH 24
White "W1 Heat"	1L-A47 Mech Room: HVAC Controls (South Main)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 HVAC System / W1 HEAT
Green "G Fan"	1L-A47 Mech Room: HVAC Controls (South Main)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 HVAC System / G FAN
Blue "Y1 Comp"	1L-A47 Mech Room: HVAC Controls (South Main)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 HVAC System / Y1 COMP
<b>1L-A48</b>		To/From: "Zone Ctrl 1L-S"	22-6
Red "R 24 VAC"	1L-A48 Mech Room: HVAC Controls (South Lower)	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 HVAC System / RH 24
White "W1 Heat"	1L-A48 Mech Room: HVAC Controls (South Lower)	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 HVAC System / W1 HEAT
Green "Fan"	1L-A48 Mech Room: HVAC Controls (South Lower)	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 HVAC System / G FAN



## Cable Wire Device Connections

Yellow/CN-Panel/H

Cable Wires	Circuit ID Circuit Name	Device Name Terminal Wire Count	Device Type Device Terminal Connection
Blue "Y1 Comp"	1L-A48 Mech Room: HVAC Controls (South Lower)	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 HVAC System / Y1 COMP
<b>1L-A79</b> To/From: Mech Room (@Garage/Shop Floor Heat) 18-4			
Black "Common"	1L-A79 Floor Heat Call - Shop	"Thermostat, Shop Floor" 1	Floor Heat Thermostat #2 Valve Drive / Com
Red "Heat Call"	1L-A79 Floor Heat Call - Shop	"Thermostat, Shop Floor" 1	Floor Heat Thermostat #2 Valve Drive / 5 / Heat
<b>1L-A80</b> To/From: Mech Room (@House Floor Heat Boiler) 18-4			
Black "Common"	1L-A80 Floor Heat Call - Lower Level - Central Zone	"Thermostat, LL Floor, Central Zone" 1	Floor Heat Thermostat #4 Valve Drive / Com
Red "Heat Call"	1L-A80 Floor Heat Call - Lower Level - Central Zone	"Thermostat, LL Floor, Central Zone" 1	Floor Heat Thermostat #4 Valve Drive / 5 / Heat
<b>1L-A81</b> To/From: Mech Room (@House Floor Heat Boiler) 18-4			
Black "Common"	1L-A81 Floor Heat Call - Lower Level - Northeast Zone	"Thermostat, LL Floor, Northeast Zone" 1	Floor Heat Thermostat #5 Valve Drive / Com
Red "Heat Call"	1L-A81 Floor Heat Call - Lower Level - Northeast Zone	"Thermostat, LL Floor, Northeast Zone" 1	Floor Heat Thermostat #5 Valve Drive / 5 / Heat
<b>1L-A82</b> To/From: "White/CN-Panel/2" 22-8			
Red "+24 Vdc"	1L-A82 Floor Heat Enable - Garage/Shop	"Relay, Floor Heat Enable, Garage/Shop" 1	Relay, SPDT, 24 Vdc (Plug-In) #1 Control In / Coil (+)
	1L-A115 Floor Heat Enable - Interior	"Relay, Floor Heat Enable, Interior" 1	Relay, SPDT, 24 Vdc (Plug-In) #2 Control In / Coil (+)
	1L-A116 Floor Heat Enable - Master Bath	"Relay, Floor Heat Enable, Master Bath" 1	Relay, SPDT, 24 Vdc (Plug-In) #3 Control In / Coil (+)
White "Garage/Shop"	1L-A82 Floor Heat Enable - Garage/Shop	"Relay, Floor Heat Enable, Garage/Shop" 1	Relay, SPDT, 24 Vdc (Plug-In) #1 Control In / Coil (-)
Brown "Interior"	1L-A115 Floor Heat Enable - Interior	"Relay, Floor Heat Enable, Interior" 1	Relay, SPDT, 24 Vdc (Plug-In) #2 Control In / Coil (-)
Blue "Master Bath"	1L-A116 Floor Heat Enable - Master Bath	"Relay, Floor Heat Enable, Master Bath" 1	Relay, SPDT, 24 Vdc (Plug-In) #3 Control In / Coil (-)
<b>1L-C20</b> To/From: "White/CN-Panel/1" Cat 5 (M1)			
White/Green "B1"	1L-C20 M1G Data Bus - HVAC RS-232 (03)	----- 1	M1 RS-232 Interface Module Data Bus / B1
Green "A1"	1L-C20 M1G Data Bus - HVAC RS-232 (03)	----- 1	M1 RS-232 Interface Module Data Bus / A1
White/Orange "B"	1L-C20 M1G Data Bus - HVAC RS-232 (03)	----- 1	M1 RS-232 Interface Module Data Bus / B
Orange "A"	1L-C20 M1G Data Bus - HVAC RS-232 (03)	----- 1	M1 RS-232 Interface Module Data Bus / A

# Cable Wire Device Connections

## Yellow/CN-Panel/H

Cable Wires	Circuit ID Circuit Name	Device Name Terminal Wire Count	Device Type Device Terminal Connection
White/Brown "_"	1L-C20 M1G Data Bus - HVAC RS-232 (03)	---- 1	M1 RS-232 Interface Module Data Bus / NEG
Brown "+"	1L-C20 M1G Data Bus - HVAC RS-232 (03)	---- 1	M1 RS-232 Interface Module Data Bus / +12
<b>1L-C21</b>		To/From: No External Connections	22-4
Black "GND"	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 RS-485 / GND
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 RS-485 / GND
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 RS-485 / GND
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 RS-485 / GND
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 RS-485 / GND
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 RS-485 / GND
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 RS-485 / GND
	1L-C21 Mech Room: HVAC RS-485 Control Bus	---- 1	M1 RS-232 Interface Module RS-485 / 4 (Com)
White "D-"	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 RS-485 / D-
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 RS-485 / D-
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 RS-485 / D-
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 RS-485 / D-
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 RS-485 / D-
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 RS-485 / D-
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 RS-485 / D-
	1L-C21 Mech Room: HVAC RS-485 Control Bus	---- 1	M1 RS-232 Interface Module RS-485 / 3 (Bus B)

## Cable Wire Device Connections

Yellow/CN-Panel/H

Cable Wires	Circuit ID Circuit Name	Device Name Terminal Wire Count	Device Type Device Terminal Connection
Green "D+"	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Lower Level, North" 1	TR60 HVAC Control Unit #4 RS-485 / D+
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Lower Level, South" 1	TR60 HVAC Control Unit #6 RS-485 / D+
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 RS-485 / D+
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Shop" 1	TR60 HVAC Control Unit #2 RS-485 / D+
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 RS-485 / D+
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 RS-485 / D+
	1L-C21 Mech Room: HVAC RS-485 Control Bus	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 RS-485 / D+
	1L-C21 Mech Room: HVAC RS-485 Control Bus	----- 1	M1 RS-232 Interface Module RS-485 / 2 (Bus A)
<b>2A-A05</b> To/From: Master BR Cat 5e			
White/Orange "Return"	2A-A05 Master BR: Thermostat (Alt)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / GND (a)
Orange "Clock"	2A-A05 Master BR: Thermostat (Alt)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / CLOCK
White/Green "Return"	2A-A05 Master BR: Thermostat (Alt)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / GND (b)
Green "Data"	2A-A05 Master BR: Thermostat (Alt)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / DATA
White/Blue "+12 Vdc"	2A-A05 Master BR: Thermostat (Alt)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / +12VDC (a)
Blue "+12Vdc"	2A-A05 Master BR: Thermostat (Alt)	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / +12VDC (b)
<b>2A-A06</b> To/From: Master BR Hall Cat 5e			
White/Orange "Return"	2A-A06 Master BR Hall: Thermostat	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / GND (a)
Orange "Clock"	2A-A06 Master BR Hall: Thermostat	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / CLOCK
White/Green "Return"	2A-A06 Master BR Hall: Thermostat	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / GND (b)
Green "Data"	2A-A06 Master BR Hall: Thermostat	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / DATA
White/Blue "+12 Vdc"	2A-A06 Master BR Hall: Thermostat	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / +12VDC (a)
Blue "+12Vdc"	2A-A06 Master BR Hall: Thermostat	"HVAC Control, Main Level, South" 1	TR60 HVAC Control Unit #5 WDU I/O / +12VDC (b)

## Cable Wire Device Connections

Yellow/CN-Panel/H

Cable Wires	Circuit ID Circuit Name	Device Name Terminal Wire Count	Device Type Device Terminal Connection
<b>2B-S13</b> To/From: Master Bath (@Floor Temp Sensor) 18-2			
Black "Terminal A"	2B-S13 Master Bath: Floor Temperature - Master Bath	"Thermostat, Master Bath Floor" 1	Floor Heat Thermostat #6 Sensor Input / 1 / Com
Red "Terminal B"	2B-S13 Master Bath: Floor Temperature - Master Bath	"Thermostat, Master Bath Floor" 1	Floor Heat Thermostat #6 Sensor Input / 2 / S1
<b>2E-S16</b> To/From: Laundry Room 18-2			
Black "Terminal A"	2E-S16 Laundry Room: Floor Temperature - Laundry Room	"Thermostat Mud Room/Laundry" 1	Floor Heat Thermostat #7 Sensor Input / 1 / Com
Red "Terminal B"	2E-S16 Laundry Room: Floor Temperature - Laundry Room	"Thermostat Mud Room/Laundry" 1	Floor Heat Thermostat #7 Sensor Input / 2 / S1
<b>2F-A09</b> To/From: BR 3 Hall Cat 5e			
White/Orange "Return"	2F-A09 BR 3 Hall: Thermostat	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 WDU I/O / GND (a)
Orange "Clock"	2F-A09 BR 3 Hall: Thermostat	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 WDU I/O / CLOCK
White/Green "Return"	2F-A09 BR 3 Hall: Thermostat	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 WDU I/O / GND (b)
Green "Data"	2F-A09 BR 3 Hall: Thermostat	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 WDU I/O / DATA
White/Blue "+12 Vdc"	2F-A09 BR 3 Hall: Thermostat	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 WDU I/O / +12VDC (a)
Blue "+12Vdc"	2F-A09 BR 3 Hall: Thermostat	"HVAC Control, Main Level, North" 1	TR60 HVAC Control Unit #7 WDU I/O / +12VDC (b)
<b>2H-A04</b> To/From: Garage 18-4			
Black "Common"	2H-A04 Garage: Gas Heater Control	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 HVAC System / RC 24
Red "Heat"	2H-A04 Garage: Gas Heater Control	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 HVAC System / W1 HEAT
White "Fan"	2H-A04 Garage: Gas Heater Control	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 HVAC System / G FAN
<b>2H-A65</b> To/From: Garage Cat 5e			
White/Orange "Return"	2H-A65 Garage: Thermostat	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 WDU I/O / GND (a)
Orange "Clock"	2H-A65 Garage: Thermostat	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 WDU I/O / CLOCK
White/Green "Return"	2H-A65 Garage: Thermostat	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 WDU I/O / GND (b)
Green "Data"	2H-A65 Garage: Thermostat	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 WDU I/O / DATA

## Cable Wire Device Connections

## Yellow/CN-Panel/H

Cable Wires	Circuit ID Circuit Name	Device Name Terminal Wire Count	Device Type Device Terminal Connection
White/Blue "+12 Vdc"	2H-A65 Garage: Thermostat	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 WDU I/O / +12VDC (a)
Blue "+12Vdc"	2H-A65 Garage: Thermostat	"HVAC Control, Garage" 1	TR60 HVAC Control Unit #3 WDU I/O / +12VDC (b)
<b>2H-S04</b>		To/From: Garage (@Floor Temp Sensor)	18-2
Black "Terminal A"	2H-S04 Floor Temperature - Garage	"Thermostat, Garage Floor" 1	Floor Heat Thermostat #1 Sensor Input / 1 / Com
Red "Terminal B"	2H-S04 Floor Temperature - Garage	"Thermostat, Garage Floor" 1	Floor Heat Thermostat #1 Sensor Input / 2 / S1
<b>3A-A02</b>		To/From: "Furnace 3A-1"	18-6
Red "R 24Vac Return"	3A-A02 Upper Utility Rm: HVAC Controls	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 HVAC System / RC 24
	3A-A02 Upper Utility Rm: HVAC Controls	"HVAC Control, Upper Level" 2	TR60 HVAC Control Unit #1 HVAC System / RH 24
Green "G Fan"	3A-A02 Upper Utility Rm: HVAC Controls	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 HVAC System / G FAN
Blue "W2 Heat"	3A-A02 Upper Utility Rm: HVAC Controls	"HVAC Control, Upper Level" 2	TR60 HVAC Control Unit #1 HVAC System / W1 HEAT
	3A-A02 Upper Utility Rm: HVAC Controls	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 HVAC System / W2 / CO
Yellow "Y1 Comp"	3A-A02 Upper Utility Rm: HVAC Controls	"HVAC Control, Upper Level" 2	TR60 HVAC Control Unit #1 HVAC System / Y1 COMP
Brown "Y2 Comp"	3A-A02 Upper Utility Rm: HVAC Controls	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 HVAC System / Y2 COMP
<b>3A-A94</b>		To/From: Upper Bar	Cat 5e
White/Orange "Return"	3A-A94 Upper Bar: Thermostat	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 WDU I/O / GND (a)
Orange "Clock"	3A-A94 Upper Bar: Thermostat	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 WDU I/O / CLOCK
White/Green "Return"	3A-A94 Upper Bar: Thermostat	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 WDU I/O / GND (b)
Green "Data"	3A-A94 Upper Bar: Thermostat	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 WDU I/O / DATA
White/Blue "+12 Vdc"	3A-A94 Upper Bar: Thermostat	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 WDU I/O / +12VDC (a)
Blue "+12Vdc"	3A-A94 Upper Bar: Thermostat	"HVAC Control, Upper Level" 1	TR60 HVAC Control Unit #1 WDU I/O / +12VDC (b)