

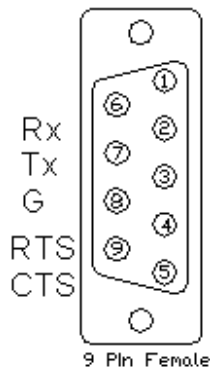
Partner: Yamaha
 Model: RX-V1900
 Device Type: Receiver



GENERAL INFORMATION

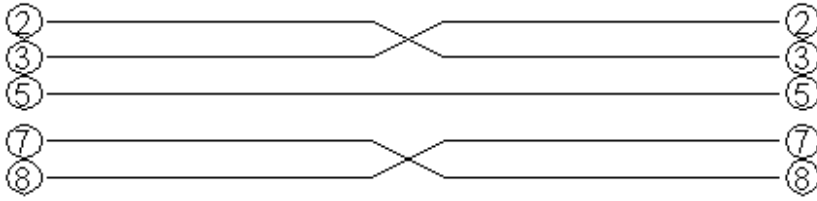
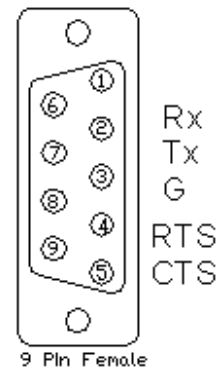
SIMPLWINDOWS NAME:	Yamaha RX-V1900 v1.2
CATEGORY:	Receiver/Processor
VERSION:	1.2
SUMMARY:	Controls the RX-V1900 receiver and provides true feedback.
GENERAL NOTES:	This module controls the Yamaha RX-V1900 receiver. It provides true feedback. All standard run time functions are included.
CRESTRON HARDWARE REQUIRED:	C2-COM, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1 RTS/CTS
VENDOR FIRMWARE:	None
VENDOR SETUP:	You must go into the Advanced Setup menu and set the RS232 Standby to YES.
CABLE DIAGRAM:	CNSP-532

Rear View of Connector



CNSP-532

Rear View of Connector



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CONTROL:

Master_Power_On/Off	D	Pulse to turn all zones on or off.
Main_Zone_Power_On/Off/Toggle	D	Pulse to turn the main zone power on and off.
Main_Zone_Volume_Up/Down	D	Press and hold to adjust the main zone volume.
Main_Zone_Volume_Mute_On/Off/Toggle	D	Pulse to turn the main zone volume mute on and off.
Input_*	D	Pulse to select the main zone input.
Tuner_Page_*	D	Pulse to select the tuner preset page.
Tuner_Preset/Channel_Keypad_*	D	Pulse to select the tuner preset on the selected tuner preset page or enter the desired frequency when in manual search mode.
Tune_Preset/Channel_Up/Down	D	Pulse to scan to the next or previous preset or channel.
Tuner_Preset_Page_Up/Down	D	Pulse to scan to the next or previous tuner preset page.
Tuner_Auto_Up/Down	D	Pulse to turn the tuner's auto function on.
Tuner_AM/FM	D	Pulse to select the AM or FM band.
Tuner_Display_Hold/Release	D	Pulse to hold or release the tuner display.
Tuner_Search_Mode_Preset/Manual	D	Pulse to select the preset or manual search mode.
Tuner_Stereo/Mono	D	Pulse to select stereo or mono mode.
Tuner_Program_Up/Down	D	Pulse to step to the next or previous HD tuner program.
Effect_*	D	Pulse to select the desired surround sound effect.
Zone_*_Power_On/Off/Toggle	D	Pulse to turn the zone 2 or 3 power on and off.
Zone_*_Volume_Up/Down	D	Press and hold to adjust the zone 2 or 3 volume.
Zone_*_Volume_Mute_On/Off/Toggle	D	Pulse to turn the zone 2 or 3 volume mute on and off.
Zone_*_Input_*	D	Pulse to select the zone 2 or 3 input.
Preset_*_Mem_*	D	Pulse to store the current volume level in a preset for the desired zone.
Preset_*_Rec_*	D	Pulse to recall the desired volume preset for the desired zone.

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XM_Channel/Preset_Key_*	D	Pulse to enter the XM channel number or XM preset number. Preset numbers are 1 to 8.
XM_Enter	D	Pulse to switch to the entered XM channel number or XM preset number.
XM_Channel/Preset_Up/Down	D	Pulse to step through the XM channels or XM presets.
XM_Category/Preset_Page_Up/Down	D	Pulse to step through the XM categories or the XM preset pages.
XM_Preset_Memory	D	Pulse to activate the XM preset memory function.
XM_Display_Hold/Release	D	Pulse to hold or release the XM display.
XM_Search_Mode_*	D	Pulse to select the desired XM search mode.
XM_Preset_Page_*	D	Pulse to select the desired XM preset page.
Sirius_Channel/Preset_Key_*	D	Pulse to enter the Sirius channel number or Sirius preset number. Preset numbers are 1 to 8.
Sirius_Enter	D	Pulse to switch to the entered Sirius channel number or Sirius preset number.
Sirius_Channel/Preset_Up/Down	D	Pulse to step through the Sirius channels or Sirius presets.
Sirius_Category/Preset_Page_Up/Down	D	Pulse to step through the Sirius categories or the Sirius preset pages.
Sirius_Preset_Memory	D	Pulse to activate the Sirius preset memory function.
Sirius_Display_Hold/Release	D	Pulse to hold or release the Sirius display.
Sirius_Search_Mode_*	D	Pulse to select the desired Sirius search mode.
Sirius_Preset_Page_*	D	Pulse to select the desired Sirius preset page.
iPod_*	D	Pulse to control the iPod. To see the iPod information on the Crestron system, you must pulse the iPod_Display_On input.
Initialize	D	Pulse to poll the receiver for its current status. This should only be required once. The module will automatically get the status when a command is sent.
From_Device	S	Serial signal to be routed from a 2-way serial com port.

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FEEDBACK:

Main_Zone_Power_is_On/Off	D	High to indicate the main zone's current power status.
Main_Zone_Volume_Gauge	A	Analog value indicating the main zone's current volume level. To be displayed using a bar graph on a touch panel.
Main_Zone_Volume_Mute_is_On/Off	D	High to indicate the main zone's current volume mute state.
Input_is_*	D	High to indicate the main zone's current input.
Tuner_Page_is_*	D	High to indicate the currently selected tuner preset page.
Tuner_Preset_is_*	D	High to indicate the currently selected tuner preset.
Tuner_Band_is_AM/FM	D	High to indicate the tuner's current band.
Tuner_Program_is_*	D	High to indicate the tuned HD program.
Effect_is_*	D	High to indicate the currently selected surround effect.
Zone_*_Power_is_On/Off	D	High to indicate the current power state for the zones 2 and 3.
Zone_*_Volume_Gauge	A	Analog signal indicating the current volume level for zones 2 and 3.
Zone_*_Input_is_*	D	High to indicate the currently selected input for zones 2 and 3.
Preset_*_Mem_is_*	D	High to indicate the last preset that was stored for the zone.
Preset_*_Recall_is_*	D	High to indicate the last preset that was recalled for the zone.
Frequency_Text	S	Serial signal indicating the current tuner frequency and band.
HD_Radio_*_Text	S	Serial signal indicating the current HD Radio Channel information. This will only be displayed when the HD Radio is selected as the source for the main zone.
*_Input_Text	S	Serial signal indicating the name of the currently selected input for each zone.
*_Volume_Text	S	Serial signal indicating the current volume level, in dB, for each zone.
Effects_Text	S	Serial signal indicating the name of the current surround effect.
XM_Channel_Number	A	Analog value representing the XM Channel number. To be displayed using a digital gauge on a touch panel.
XM_Preset_is_*	D	High to indicate the currently selected XM preset number.

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XM_*_Text	S	Serial signal indicating the current XM Channel information. This will only be displayed when the XM is selected as the source for the main zone.
XM_Search_Mode_is_*	D	High to indicate the currently selected XM search mode.
XM_Preset_Page_is_*	D	High to indicate the currently selected XM preset page.
Sirius_Channel_Number	A	Analog value representing the Sirius Channel number. To be displayed using a digital gauge on a touch panel.
Sirius_Preset_is_*	D	High to indicate the currently selected Sirius preset number.
Sirius_*_Text	S	Serial signal indicating the current Sirius Channel information. This will only be displayed when the Sirius is selected as the source for the main zone.
Sirius_Search_Mode_is_*	D	High to indicate the currently selected Sirius search mode.
Sirius_Preset_Page_is_*	D	High to indicate the currently selected Sirius preset page.
iPod_*_Text	S	Serial signal indicating the current iPod information. This will only be displayed when the iPod Dock is selected as the source for the main zone.
iPod_Highlighted_Line	A	Analog value indicating the currently highlighted line of text in the iPod list.
iPod_List_Line_*_Text	S	Serial signal indicating the current menu list. This will only be displayed when the iPod is selected as the source for the main zone.
To_Device	S	Serial signal to be routed to a 2-way serial com port.

TESTING:

OPS USED FOR TESTING:	3.155.1240
SIMPL WINDOWS USED FOR TESTING:	2.11.09
CRESTRON DB USED FOR TESTING:	20.03.008.00
DEVICE DB USED FOR TESTING:	20.05.014.00
SAMPLE PROGRAM:	Yamaha RX-V1900 v1.2 Demo
REVISION HISTORY:	V. 1.0 – Original Release V. 1.1 – Fixed an issue where zones 2 and 3 might not turn on if all zones are off. V. 1.2 – Fixed an issue with controlling the iDock.