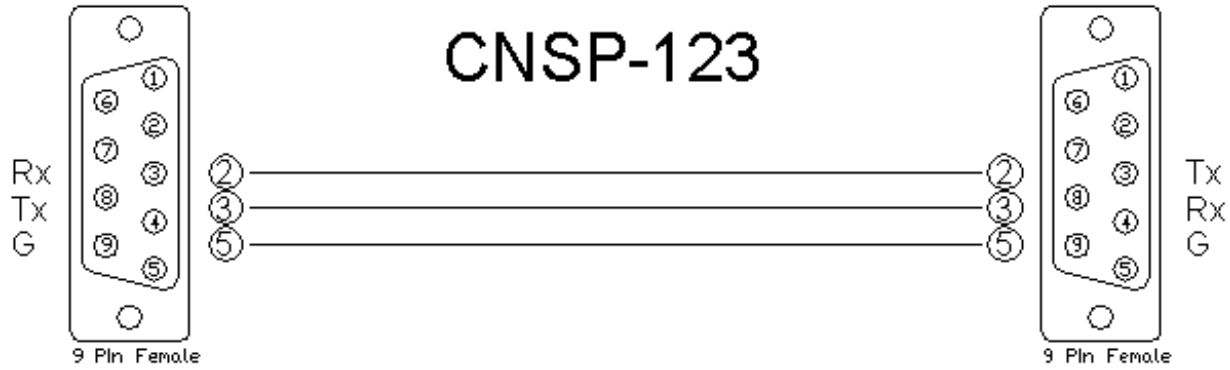
# Partner: NAD
# Model: T785
# Device Type: AV Surround Receiver

## GENERAL INFORMATION

| | |
|---|---|
| **SIMPLWINDOWS NAME:** | NAD 785 v1.0 |
| **CATEGORY:** | Audio Processor |
| **VERSION:** | 1.0 |
| **SUMMARY:** | Controls all standard functions and provides true feedback |
| **GENERAL NOTES:** | This module will control all of the standard functions on a NAD 785 AV Surround Receiver. The unit provides true feedback. Functions provided include main zone control, zone 1, 2, 3, and 4 controls, menu selection and tuner band/preset selection. Note: XM Tuner controls require Main Power On to function correctly. |
| **CRESTRON HARDWARE REQUIRED:** | ST-COM, C2I-COM6, C2COM-2/3 |
| **SETUP OF CRESTRON HARDWARE:** | RS232<br>Baud: 9600<br>Parity: None<br>Data Bits: 8<br>Stop Bits: 1 |
| **VENDOR FIRMWARE:** | N/A |
| **VENDOR SETUP:** | None |
| **CABLE DIAGRAM:** | CNSP-123 |

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## CONTROL:

| | | |
|---|---|---|
| **Main_Power_<On/Off/Toggle>** | D | Pulse to turn the receiver's main power on and off |
| **Main_Volume_<Up/Down>** | D | Press and hold to adjust the main volume |
| **Main_Volume_Mute_<On/Off/Toggle>** | D | Pulse to turn the main output volume mute on and off |
| **Main_Input_Source_*** | D | Pulse to select the desired source on the main output |
| **Main_Input_Source_Tuner** | D | Pulse to select Tuner on the main output |
| **Tuner_Preset_*** | D | Pulse to select Tuner Preset number * to the tuner |
| **Tuner_Band_*** | D | Pulse to set the tuner mode to * |
| **Tuner_Tune_<+/->** | D | Pulse to tune up or down |
| **Tuner_Search_<+/->** | D | Pulse to search up or down |
| **Tuner_Digital_Mode_<DAB/XM>** | D | Pulse to switch the tuner's digital mode to DAB or XM |
| **Key_*** | D | Pulse to send the keypad value * |
| **Menu_<Up/Down/Left/Right>** | D | Pulse to move through the menus |
| **Menu_Enter** | D | Pulse to select the highlighted menu item |
| **Menu_Display** | D | Pulse to send menu Display command |
| **Sleep** | D | Pulse to cycle through the sleep timer times |
| **Zone_<2/3/4>_Power_<On/Off/Toggle>** | D | Pulse to turn power on and off for zone 2, zone 3 or zone 4 |
| **Zone_<2/3/4>_Volume_<Up/Down>** | D | Press and hold to adjust the zone 2, zone 3 or zone 4 volume |
| **Zone_<2/3/4>_Volume_Mute_<On/Off/Toggle>** | D | Pulse to turn the zone 2, zone 3 or zone 4 volume mute on and off |
| **Zone_<2/3/4>_Input_Source_*** | D | Pulse to select the desired source on the zone 2, zone 3 or zone 4output |
| **Zone_<2/3/4>_Input_Tuner** | D | Pulse to select Tuner on the zone 2, zone 3 or zone 4 output |
| **Treble_<Up/Down>** | D | Pulse to adjust the treble |

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| | | |
|---|---|---|
| **Bass_<Up/Down>** | D | Pulse to adjust the bass |
| **Surround_Trim_<Up/Down>** | D | Pulse to adjust the Surround Trim |
| **Center_Trim_<Up/Down>** | D | Pulse to adjust the Center Trim |
| **Sub_Trim_<Up/Down>** | D | Pulse to adjust the Sub Trim |
| **Surround_Mode_*** | D | Pulse to select the desired Surround Mode |
| **Surround_Mode_Analog_*** | D | Pulse to select the desired Surround Mode Analog |
| **Surround_Mode_Digital_*** | D | Pulse to select the desired Surround Mode Digital |
| **Speaker_<A/B>_<On/Off>** | D | Pulse to turn speaker a or b on and off |
| **Main_Trigger_<1/2/3>_Out_Main** | D | Pulse to toggle the main zone trigger * on / off |
| **Main_Trigger_<1/2/3>_Out_Zone_2** | D | Pulse to toggle the zone 2 trigger * on / off |
| **Main_Trigger_<1/2/3>_Out_Zone_3** | D | Pulse to toggle the zone 3 trigger * on / off |
| **Main_Trigger_<1/2/3/4>_Out_Zone_4** | D | Pulse to toggle the zone 4 trigger * on / off |
| **Poll Settings** | D | Pulse to poll all settings for the receiver once |
| **Poll Enable** | D | Hold High to poll all settings for the receiver every 10 seconds |
| **From Device** | S | Serial information returned from a 2-way serial port |

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## FEEDBACK:

| | | |
|---|---|---|
| **Main_Power_Is_<On/Off>** | D | High to indicate current main zone power state |
| **Unit_Is_Initializing** | D | High to indicate that the unit is polling for information |
| **Main_Volume_Gauge** | A | Analog value indicating the main zone volume level |
| **Main_Volume_Mute_Is_<On/Off>** | D | High to indicate the current main zone volume mute state |
| **Main_Input_Is_Source_*** | D | High to indicate the currently selected main zone input |
| **Main_Input_Is_Tuner** | D | High to indicate that the main zone input is tuner |
| **Tuner_Preset_Is_*** | D | High to indicate which tuner preset is selected |
| **Tuner_Band_Is_*** | D | High to indicate the currently selected tuner band |
| **Tuner_Text** | S | Displays the current tuner station |
| **Tuner_XM_ChannelName_Text** | S | Displays the current XM channel name |
| **Tuner_XM_Name_Text** | S | Displays the current XM artist name |
| **Tuner_Title_Name** | S | Displays the current XM song title |
| **Tuner_DigitalMode_*** | D | High to indicate the currently selected tuner digital mode |
| **Tuner_FM_RDS_Name_Text** | S | Displays the FM tuner RDS name |
| **Tuner_FM_RDS_Text** | S | Displays the FM tuner RDS text information |
| **Direct_Tune_Display_Text** | S | Displays the tuner keypad value |
| **Tuner_DAB_DLS_Text** | S | Displays the DAB tuner DLS information |
| **Tuner_DAB_Service_Text** | S | Displays the DAB text information |
| **Zone_<2/3/4>_Power_Is_<On/Off>** | D | High to indicate the current power state for each zone. |
| **Zone_<2/3/4>_Volume_Gauge** | A | Analog value indicating the volume level for each zone |
| **Zone_<2/3/4>_Volume_Mute_Is_<On/Off>** | D | High to indicate the current volume mute state for each zone |
| **Zone_<2/3/4>_Input_Source_Is_*** | D | High to indicate the currently selected input for each zone |
| **Zone_<2/3/4>_Input_Is_Tuner** | D | High to indicate that the currently selected input for the zone is the tuner |
| **Source_Name_*_Text** | S | Displays the name for source * |
| **Treble_Gauge** | A | Displays the current treble level |
| **Bass_Gauge** | A | Displays the current Bass level |
| **Surround_Trim_Gauge** | A | Displays the current surround trim level |
| **Center_Trim_Gauge** | A | Displays the current center trim level |

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| | | |
|---|---|---|
| **Sub_Trim_Gauge** | A | Displays the current sub trim level |
| **Sleep_Text** | S | Displays the current sleep timer time |
| **Surround_Mode_Is_*** | D | High to indicate the currently selected surround mode |
| **Speaker_<A/B>_Is_<On/Off>** | D | High to indicate the current state of speaker A and B |
| **Main_Trigger_1_Out_*_Is_On** | D | High to indicate that the main trigger * is on |
| **Main_Trigger_2_Out_*_Is_On** | D | High to indicate that the main trigger 2 * is on |
| **Main_Trigger_3_Out_*_Is_On** | D | High to indicate that the main trigger 3 * is on |
| **To_Device** | S | Serial string to receiver |

## PARAMETER:

| | | |
|---|---|---|
| **Source_*_Name** | P | Name for each source |

## TESTING:

| | |
|---|---|
| **OPS USED FOR TESTING:** | 4.001.1012 |
| **SIMPL WINDOWS USED FOR TESTING:** | 2.12.39 |
| **CRES DB USED FOR TESTING:** | 21.04.015.00 |
| **DEVICE DATABASE:** | 27.01.004.00 |
| **SAMPLE PROGRAM:** | NAD 785 v1.0 Demo PRO2 |
| **REVISION HISTORY:** | V. 1.0 |

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