

SIMPLWINDOWS NAME: Rotel RT-1080 Tuner

CATEGORY: Tuner

VERSION: 1.0

SUMMARY: Controls and responds to tuner front panel control buttons.

GENERAL NOTES: This macro gives access to all front panel functions of Rotel Tuner. If power control is wished to be toggled on and off then, a CNPC1-A may be used along with a current sensor for positive feedback. This macro will output the exact visual representation of the Rotel tuner on any two-way touchpanel.

CRESTRON HARDWARE: None

SETUP OF CRESTRON HARDWARE: Use the RS-232 port on the back of unit. Make sure the proper cable is made or acquired to ensure communication. Protocol is as follows:

Baud Rate - 4800
 Parity - None
 Data Bits - 8
 Stop Bits - 1
 No Handshaking

VENDOR FIRMWARE: None

VENDOR SETUP: Use the RS232 port on the back of unit. Make sure the proper cable is made or acquired to ensure communication.

CABLE NUMBER: CNSP-636

CABLE WIRING: This cable uses a 8-way cable, an RJ45 connector and a 9-way D-type female connector.

Rotel	to	Crestron
RJ45	to	9 pin female D
Pin1	to	No Connection
Pin2	to	No Connection
Pin3	to	Pin2
Pin4 and Pin6	to	Pin5
Pin5	to	Pin3
Pin7	to	No Connection
Pin8	to	No Connection

CONTROL:

KEY_0 Connect from touchpanel (represents button 0 on front panel)

KEY_1 Connect from touchpanel (represents button 1 on front panel)

KEY_2 Connect from touchpanel (represents button 2 on front panel)

KEY_3 Connect from touchpanel (represents button 3 on front panel)

KEY_4 Connect from touchpanel (represents button 4 on front panel)

KEY_5 Connect from touchpanel (represents button 5 on front panel)

KEY_6 Connect from touchpanel (represents button 6 on front panel)

KEY_7 Connect from touchpanel (represents button 7 on front panel)

KEY_8	Connect from touchpanel (represents button 8 on front panel)
KEY_9	Connect from touchpanel (represents button 9 on front panel)
AUTO_TUNING	Connect from touchpanel (tunes automatically for strong station)
TUNE_PRESET	Connect from touchpanel (toggles between tune & preset mode)
PRESET_SCAN	Connect from touchpanel (scans the preset station frequencies)
BAND	Connect from touchpanel (toggles between am & fm)
MEMORY	Connect from touchpanel (sets a station freq. in memory)
DISPLAY	Connect from touchpanel (in rds mode it steps thru 5 display options)
MONO STEREO	Connect from touchpanel (toggles between stereo and mono mode)
AF	Connect from touchpanel (scans alternate rds stations to find stronger frequencies)
TP	Connect from touchpanel (searches for rds traffic info programming)
PTY	Connect from touchpanel (scans for available rds stations)
ANT_ATT	Connect from touchpanel (reduces signal level at fm antenna input)
WIDE_NARROW	Connect from touchpanel (reduces range of incoming signals for better reception)
TA	Connect from touchpanel (searches for rds traffic announcements)
TUNE_UP	Connect from touchpanel (moves frequency in the upward direction)
TUNE_DWN	Connect from touchpanel (moves frequency in the downward direction)
ANTENNA	Connect from touchpanel (toggles between antenna a & b)
DIMMER	Connect from touchpanel (steps the display through brightness --not on hand remote--)
FREQ_DIRECT	Connect from touchpanel (allows for direct tuning --not on hand remote--)
REFRESH	Connect from touchpanel (updates control system display --not on hand remote--)
RX\$	Connect from CNXCOMH-2 (HEX string coming from Rotel)

FEEDBACK:

STATION_TEXT\$ Connect to indirect text field on touchpanel

The next following signals activate Legends on a two-way touchpanel

AUTO_FB	Connect to feedback side of touchpanel
MEMORY_FB	Connect to feedback side of touchpanel
PRESET_FB	Connect to feedback side of touchpanel
RT_FB	Connect to feedback side of touchpanel
EON_FB	Connect to feedback side of touchpanel
TP_FB	Connect to feedback side of touchpanel
TA_FB	Connect to feedback side of touchpanel
AF_FB	Connect to feedback side of touchpanel
STEREO_FB	

	Connect to feedback side of touchpanel
TUNED_FB	Connect to feedback side of touchpanel
NARROW_FB	Connect to feedback side of touchpanel
LW_FB	Connect to feedback side of touchpanel
MW_FB	Connect to feedback side of touchpanel
FM_FB	Connect to feedback side of touchpanel
ANT_FB	Connect to feedback side of touchpanel
B_FB	Connect to feedback side of touchpanel
A_FB	Connect to feedback side of touchpanel
RBDS_FB	Connect to feedback side of touchpanel
RDS_FB	Connect to feedback side of touchpanel
AM_FB	Connect to feedback side of touchpanel
TX\$	From module output to CNXCOMH-2 or equivalent

OPS USED FOR TESTING:	5.12.26x
COMPILER USED FOR TESTING:	SimplWindows Version 1.61.12
SAMPLE PROGRAM:	Rotel 1080 Test
REVISION HISTORY:	None