

# NAV-TV

INTERFACING THE FUTURE

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## MOST-H.U.R. 31

Head Unit Replacement interface for select '10-'16 Porsche CDR31 or PCM3.1 radio  
**NTV-KIT835**



**MOST**<sup>®</sup>



BHM  
09/23/19  
NTV-DOC300

### Overview

The MOST-HUR31 is a radio replacement interface for select Porsche vehicles equipped with PCM3.1 or CDR31 radio & external BOSE M.O.S.T. fiber optic amplifier. The module allows the factory amplifier, speakers and sound quality to be retained when adding a modern aftermarket radio. Other components in the factory system, such as a CD changer, satellite radio, telephone module, DVD player, or any other factory component in the M.O.S.T loop will not need to be removed but will not function after the installation. **NOTE: Porsche vehicles equipped with Burmester amplifier are compatible with the latest firmware. See website product page.**

### Kit Content



Plug & Play T-Harness  
NTV-HAR285



MOST-HUR31 interface  
NTV-ASY265



Fiber Optic extension  
cable/connector  
NTV-HAR067/NTV-CON002



3.5mm plug for IR  
NTV-CAB026



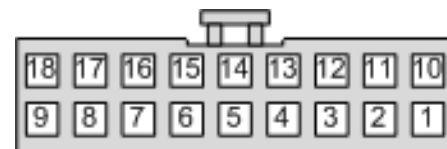
USB Cable (updates)  
NTV-CAB009



Antenna Adapter  
NTV-CAB027

### MOST-HUR31 Pinout

Pin #	Description	Color	Radio Connections:
1	Constant 12v (+)	Yellow	Radio, Constant Power
2	Left Front Audio IN	White RCA	Radio, Left Front RCA OUT
3	Rear Common Shield	Green/Purple RCA	Radio, Rear RCA Common
4	Left Rear Audio IN	Green RCA	Radio, Left Rear OUT
5	Remote IN	Yellow/Black	Radio, Remote OUT
6	--NOT USED--	Yellow/Blue	--
7	Reverse Signal OUT	Purple/White	Radio, Reverse IN
8	Illumination OUT	Orange	Radio, Illumination Control
9	CAN HI	Brown/Red	--
10	Ground	Black	Radio, Black (Ground)
11	Right Front Audio IN	Gray RCA	Radio, Right Front RCA
12	Front Common Shield	White/Gray RCA	Radio, Front RCA Common
13	Right Rear Audio IN	Purple RCA	Radio, Right Rear OUT
14	IR OUT	White	Radio, IR Control
15	Parking Brake OUT	Green	Radio, Parking Brake IN
16	--NOT USED--	Green/White	--
17	12 ACC OUT (1 amp)	Red	Radio, ACC Power
18	CAN LO	Brown	--



Wire side view

*Wires highlighted green will be connected to the vehicle via the Plug & Play Harness.*

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## MOST-HUR31 Installation

1. **Base-line the factory radio:**
  - a. Source the radio to FM radio, adjust the volume to a **comfortable** listening setting
  - b. Center the balance and fade, center the bass and treble
  - c. Be certain there are no other problems with the factory stereo system before installing this unit.
2. Remove the factory radio **and any other aftermarket MOST components (if existing) from vehicle – even if they are NAV-TV MOST components.**
3. Connect the provided **Plug & Play Harness** to the main factory connector previously removed from the OEM radio.
4. Remove the fiber optic plug from the OEM Harness (pry lock-tab).
  - a. Connect the provided **fiber connector** to the OEM fiber plug
  - b. Connect the new fiber assembly to the MOST-HUR31 interface at the fiber port.
5. Connect the RCAs among the **Plug & Play Harness** to the low-level pre-outs of the aftermarket radio. *NOTE: factory subwoofer (if equipped) is not adjustable through the amplifier, therefore will not be adjustable with the aftermarket HU.*
6. Make all remaining radio connections:
  - a. Ground (-) is provided from the HUR **Black** wire (PIN 10)
  - b. Constant Power (+) is provided from the HUR **Yellow** wire (PIN 1)
  - c. ACC 12v (+) power is provided from the HUR module **RED** wire (PIN 17). **Connect the vehicle's Power Antenna wire (blue from T-Harness) to this ACC as well (often times, some radios will not supply sufficient current to the vehicle power antenna. Power Antenna Note: in some cars, the OEM power antenna wire location has moved 1 pin down (white, OEM PIN12) – if so, either re-pin or jump around the connector to power from the Blue wire.**
  - d. Reverse signal is provided from the HUR module **Purple/White** wire (PIN 7)
  - e. Remote from HUR (yellow/black) must connect to the remote OUT from the radio (typically blue/white). This is used to UNMUTE the factory amplifier & to know that the radio is ready to receive the video lock-out bypass.
  - f. IR signal is provided from the HUR module **White** wire (PIN 14). *NOTE: If installing Kenwood radio, connect white wire directly to remote-in wire from head unit. All other radios, connect white wire to the red wire of the provided IR plug 3.5mm adapter cable and connect to wired-remote in port on HU.*
  - g. E-brake is provided from the HUR unit's **Green** wire (PIN 15). Connecting this to the Parking brake wire of the radio will *bypass the video lock-out restriction* until every key cycle\* (if the user desires – see menu settings).
7. Connect the RCAs from the HUR to the radio's low-level RCA outputs. The radio's high-level speaker outs are not used with this unit. Connect the 18-pin plug from the **Plug & Play Harness** to the MOST-HUR31 interface at the power port and proceed to **MOST-HUR31 Menu Setup (below).**



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**MOST-HUR31 SWC Menu and radio control overview (type 1)**

- Once all connections are made, verify sound is heard through the system with the key on. Verify balance and FM radio signal (via the aftermarket head unit).
- The following MOST-HUR31/OEM Amplifier adjustments can be made with the OEM steering wheel controls, and feedback is shown through the cluster LCD screen during the process. *NOTE: for vehicles without SWC, see page 7.*



[Volume] (up/down): press for mute  
**OR**  
While in menu:  
Adjust value of current option

To begin, the cluster LCD must be resting in 'AUDIO' display mode (use right-side scroll knob until 'NAVTV HUR' appears)

[Return]:  
OEM functionality only

[Diamond]:  
OEM functionality only  
**OR**  
While in menu:  
Cycle (UP) through available options

[Phone pick-up]:  
answers BT phone call  
**OR**  
While in menu:  
Cycle (DOWN) through available options

[Phone hang up]: ends BT phone call  
**OR**  
HOLD 10 seconds to enter HUR menu, press once again to exit (See page 6 for alternate method)

[Rotary knob]: preset selection  
Must enter Audio-Extras first (press inwards)  
**ALSO**  
Scroll to display NAVTV-HUR menu



Input GAIN  
0-100%  
Use Volume to adjust

FADER  
-5 - +5 Rear/Front  
Use Volume to adjust

BALANCE  
-5 - +5 Left/Right  
Use Volume to adjust

BASS  
-5 - +5 Left/Right  
Use Volume to adjust

TREBLE  
-5 - +5 Left/Right  
Use Volume to adjust

**NOTE: FADE settings are only active through the cluster – they will NOT function through the aftermarket radio.**

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**MOST-HUR31 SWC Menu and radio control overview (type 2)**

- Once all connections are made, verify sound is heard through the system with the key on. Verify balance and FM radio signal (via the aftermarket head unit).
- The following MOST-HUR31/OEM Amplifier adjustments can be made with the OEM steering wheel controls, and feedback is shown through the cluster LCD screen during the process. *NOTE: for vehicles without SWC, see page 7.*



To begin, the cluster LCD must be resting in 'AUDIO' display mode (use right-side scroll knob until 'NAVTV HUR' appears)

[Volume] (up/down):  
press for mute  
**OR**  
While in menu:  
Adjust value of  
current option

[Return]:  
OEM functionality only

[Phone pick-up]:  
answers BT phone call  
**OR**  
While in menu:  
Cycle (DOWN) through  
available options

[Diamond]:  
OEM functionality only  
**OR**  
While in menu:  
Cycle (UP) through  
available options

[Rotary knob]: preset  
selection  
Must enter Audio-Extras  
first (press inwards)  
**ALSO**  
Scroll to display  
NAVTV-HUR menu

[Phone hang up]: ends BT  
phone call  
**OR**  
HOLD 10 seconds to enter  
HUR menu, press once  
again to exit (See page 6  
for alternate method)



Input GAIN  
0-100%  
Use Volume  
to adjust

FADER  
-5 - +5 Rear/Front  
Use Volume to  
adjust

BALANCE  
-5 - +5 Left/Right  
Use Volume to  
adjust

BASS  
-5 - +5 Left/Right  
Use Volume to  
adjust

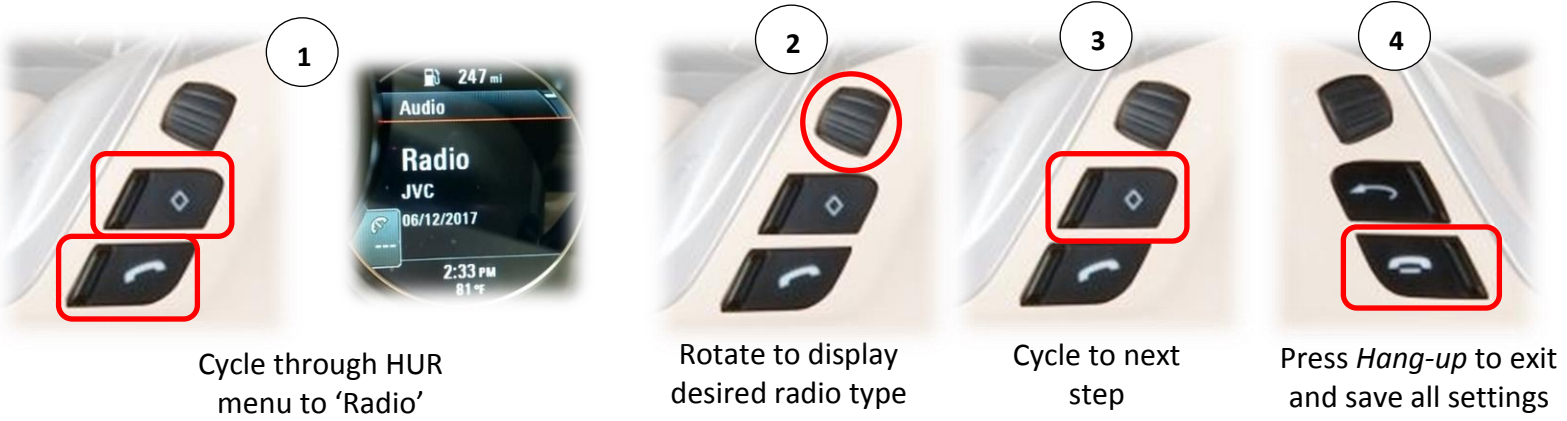
TREBLE  
-5 - +5 Left/Right  
Use Volume to  
adjust

**NOTE: FADE settings are only active through the cluster – they will NOT function through the aftermarket radio.**

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### MOST-HUR31 SWC radio selection

- Before steering-wheel radio control will operate properly, you must select the proper radio type in the HUR Cluster menu. **Once inside NAVTV-HUR Menu:**



### MOST-HUR31 Surround / E-Brake setup

Select whether or not to enable OEM Surround processing  
**NOTE:** if this setting does not retain when choosing 'ON', then the Porsche system is not equipped with Surround processing.



**E-Brake options:**  
**Bypass:** sends a (-) pulse out the E-Brake wire (green) from the HUR, 5 seconds after ignition.  
**OEM:** Provides (-) pulse out the E-Brake wire (green) from the HUR, only when E-Brake is active



### MOST-HUR31 SWC Extras control

- When the cluster is resting on NAVTV HUR (Audio), the MOST-HUR31 offers a feature for track/preset control. This feature is also available for vehicles not equipped with SWC:



**Vehicles with SWC:** use right-side knob



**Vehicles without SWC:** use multi-function display lever

## Entering / Adjusting HUR Cluster menu without SWC

For vehicles without steering wheel controls, **press and hold** the push button on the side of the HUR module for **10 seconds** to enter the menu (wait for complete countdown). Once inside the NAVTV-HUR Audio menu, use the OEM controls shown below to adjust settings.



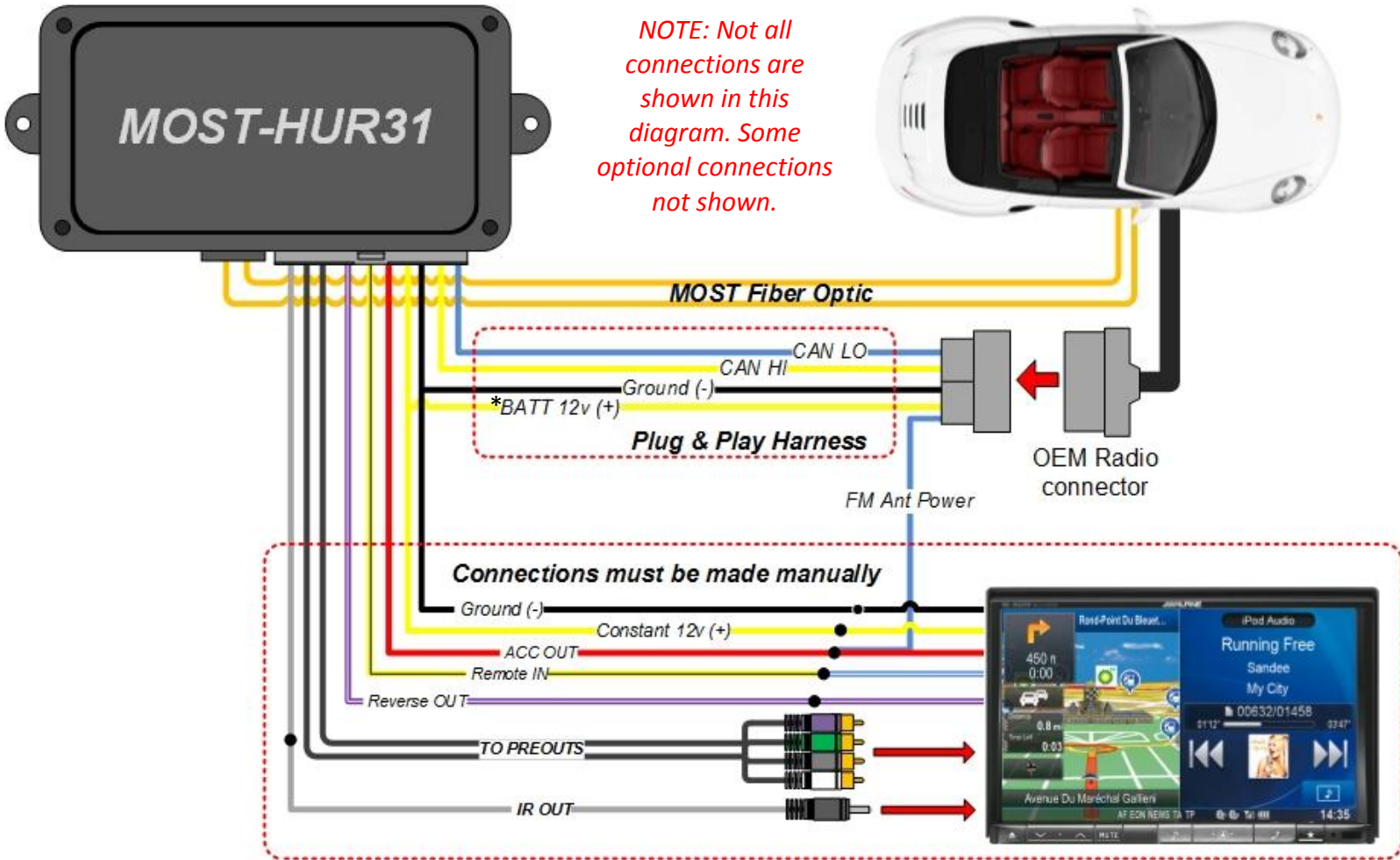
Once inside the HUR Menu, reference the picture here (right). Use the OEM turn signal stalk/headlight lever to control the menu and adjust settings:

1. **Left turn signal:** decrease current setting value (one detent/press)
2. **Right turn signal:** increase current setting value (one detent/press)
3. **High-beam toggle on:** cycle menu up
4. **High-beam flash:** cycle menu down

When finished, **push button on HUR module, cycle key** or wait for **15-second time out**.



MOST-HUR31 Diagram



*\*NOTE: if having radio/sound startup problems (only some vehicles), move constant connection (to module) to an ACC source.*



## HUR31 NOTES

- If the vehicle is equipped with the *Burmester amplifier*, the *amp gain* in the cluster settings menu may need to be adjusted lower to reduce noise floor.
- For vehicles with steering wheel controls: the OEM *diamond* button is adjustable through the factory cluster menu – if it was previously set up to control the (OEM) *radio* in any way, *you will not be able to fully control the NAV-TV menu settings* – to avoid this, adjust the OEM *diamond* button to control *anything else but the radio*. After this, the NAV-TV menu controls will work properly.

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