

# NAV-TV

INTERFACING THE FUTURE

BHM  
10/17/18  
NTV-DOC323

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## GVIF-LEX13

NTV-KIT881

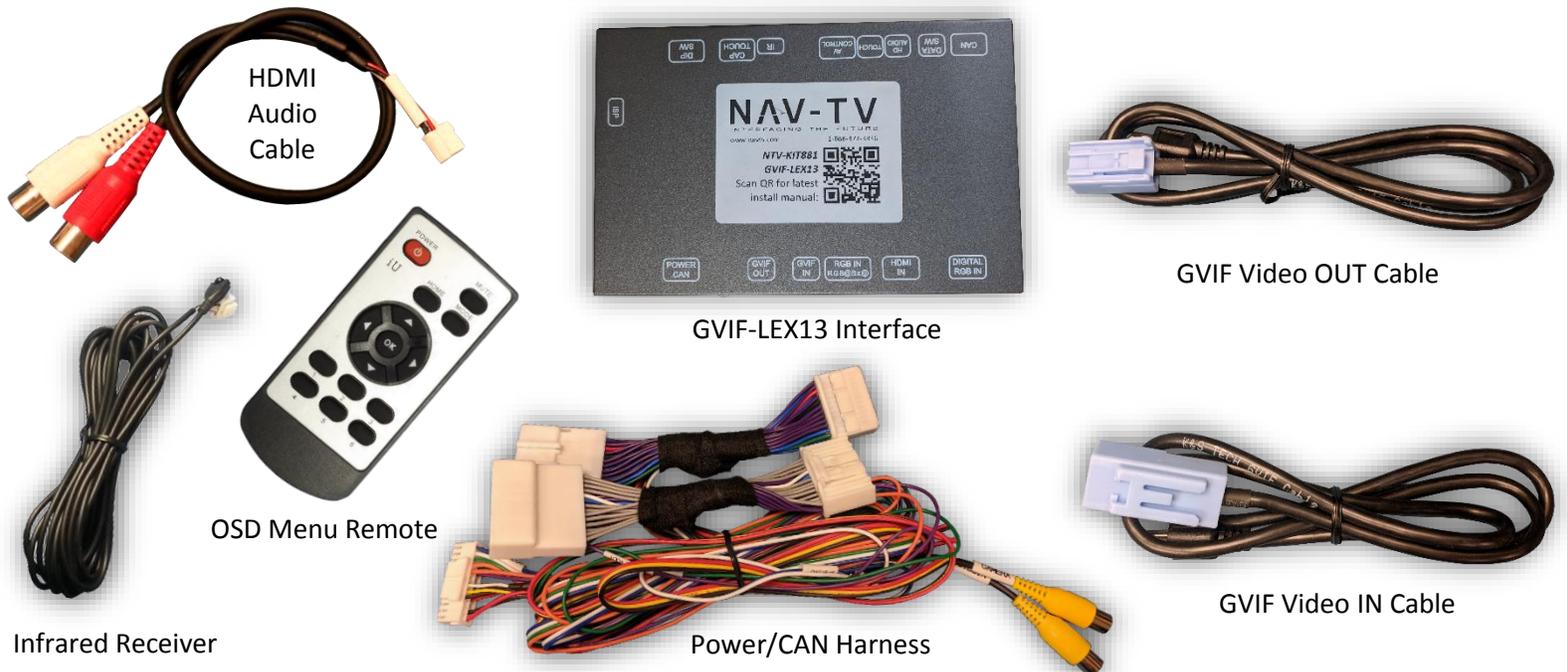


Quick Reference
(GVIF) Video Cables connect at <b>Screen</b>
Power/CAN Harness connects at <b>Radio &amp; Screen</b>
Unit requires <b>Constant 12v</b>
<b>Do not power camera with reverse light.</b> Use ACC or purple wire (through relay)

### Overview

The GVIF-LEX13 Kit interfaces 2 composite video inputs (including backup camera input) and an HDMI input (if desired) to the factory media screen in select '13-'17 Lexus vehicles equipped without Gracenote. Installation is performed behind the radio (CD player) and screen.

### Kit Content



Infrared Receiver

OSD Menu Remote

GVIF-LEX13 Interface

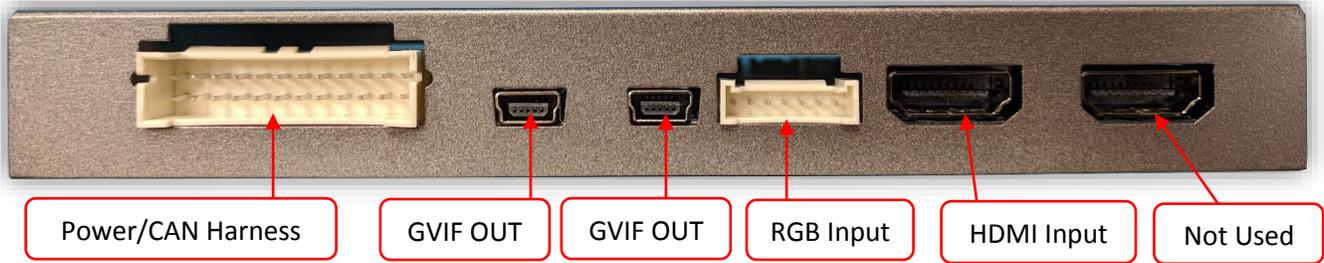
Power/CAN Harness

GVIF Video OUT Cable

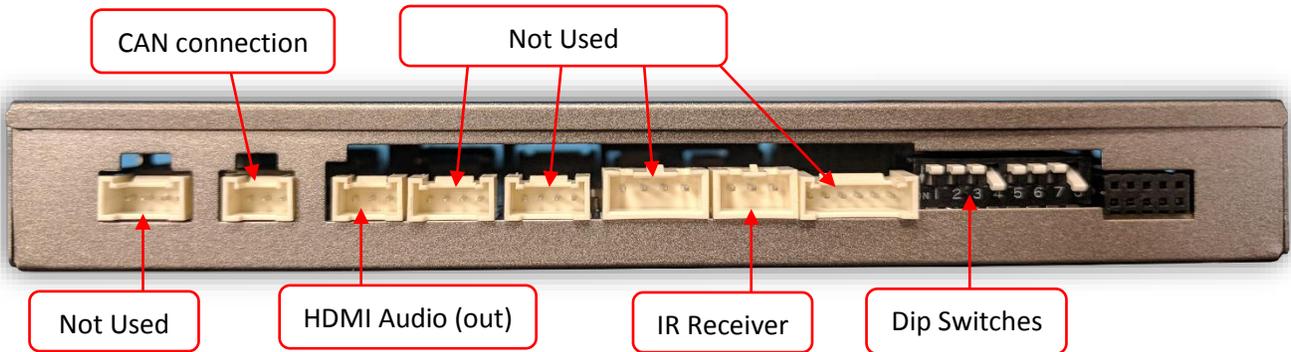
GVIF Video IN Cable

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Interface Connectors



Power/CAN Harness    GVIF OUT    GVIF OUT    RGB Input    HDMI Input    Not Used



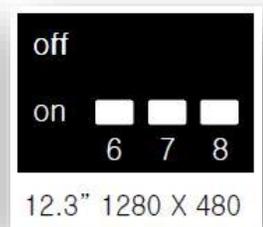
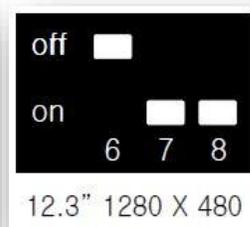
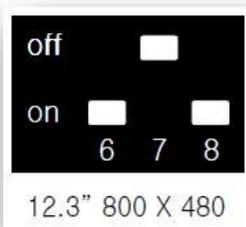
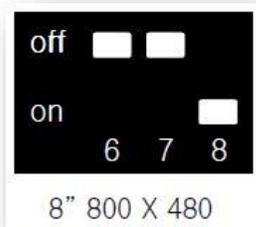
CAN connection    Not Used  
Not Used    HDMI Audio (out)    IR Receiver    Dip Switches

Dip Switch Settings

Dip SW:	1	2	3	4	5	6	7	8
UP	NORMAL OP	KEEP UP	KEEP UP	OEM REAR CAMERA	KEEP UP	RES SETTING	RES SETTING	KEEP DOWN
DOWN	Enter MENU	KEEP UP	KEEP UP	ADDING REAR CAMERA	KEEP UP	RES SETTING	RES SETTING	KEEP DOWN



**Note:** Remove power to the unit prior to making adjustments to the dip switches.



TYPE 1

TYPE 2

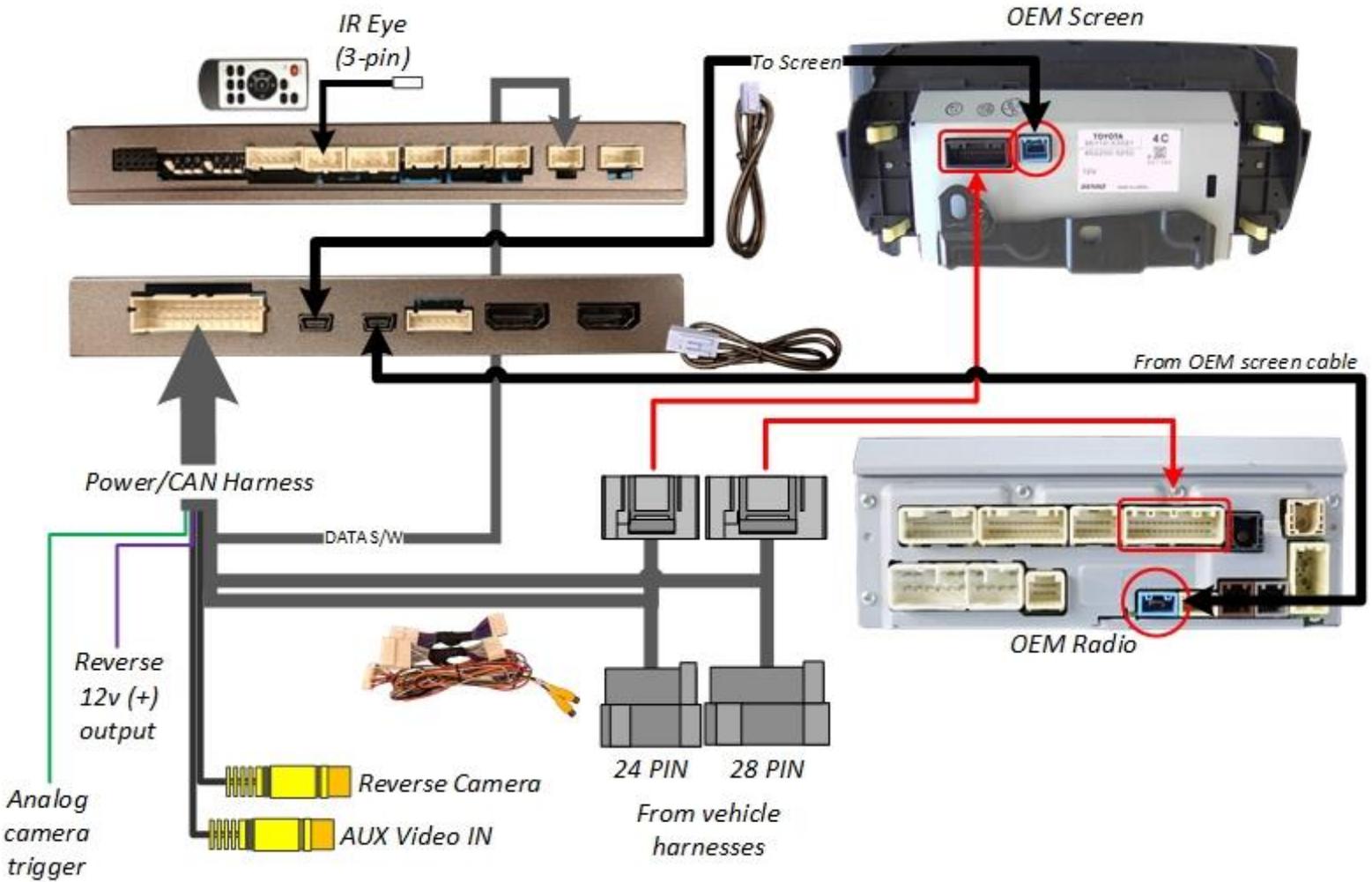
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## Installation

1. Remove the radio (CD player) and screen from the dashboard.
2. Connect the provided 28-PIN *Plug & Play T-Harness* in ***between the vehicle harness and the radio*** using the proper OEM plug (this T-Harness will only connect one way and to one connector).
3. Connect the provided 24-PIN *Plug & Play T-Harness* in ***between the vehicle harness and the screen***.
4. Connect the remaining 24-PIN power plug from the T-Harness to the port on the interface labeled ***'POWER CAN'***.
5. Connect the 3-PIN (blue & white wires) plug among the T-Harness to the interfaces' ***'DATA S/W'***.
6. ***Optional:*** if connecting an HDMI source, connect now to the ***'HDMI IN'*** port. Use the provided ***'HDMI Audio Cable'*** for audio OUT from the HDMI source. Run (extend) this pair of RCAs to the AUX-input of the vehicle if audio from the HDMI source is required (if phone screen mirroring, using BT is an option as well).
7. Connect the provided (male) ***'GVIF-OUT Cable'*** from *GVIF-OUT (interface)*, directly to the monitor.
8. Connect the provided (female) ***'GVIF-IN Cable'*** from *GVIF-IN (interface)*, to the previously removed OEM GVIF screen cable.
9. Reconnect remaining OEM plugs to radio/screen and proceed to *'Operation'* for testing.

***NOTE: no other plugs or harnesses among the T-Harness or provided are required for this install.***

GVIF-LEX13 Install Diagram



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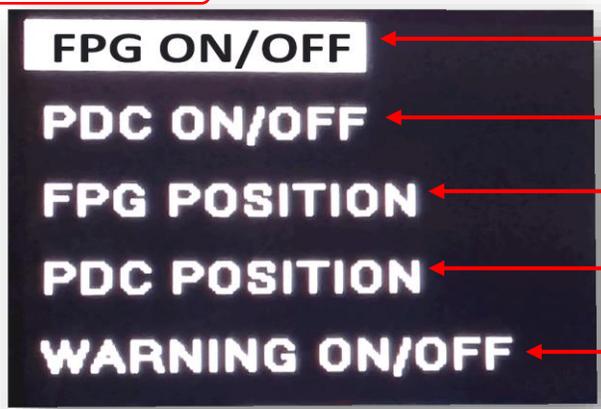
GVIF-LEX13 Menu Adjustments

Before you start:

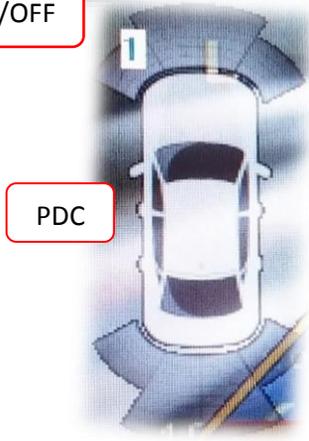
- The IR-Eye must be connected to the interface
- Make sure the car's ignition is on and radio is on
- You must be in **Reverse Camera** mode.
  - **Reverse Camera Mode** adjusts Reverse Camera Settings
- Press the **OK BUTTON** 4 times (numbers will display per press), then press **POWER**.
- The **OSD Menu** will appear on screen (auto-time out in about 5 seconds if no action occurs).



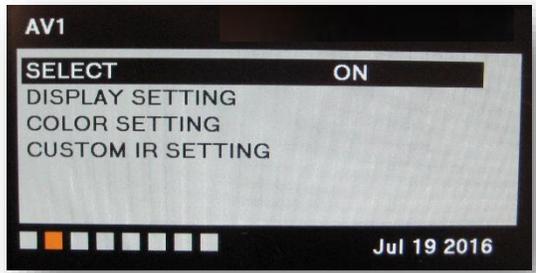
**Reverse Menu**



- Functional Parking Guidelines ON/OFF
- Parking Distance Control ON/OFF (while in reverse)
- Adjust FPG Position
- Adjust PDC Position
- 'Safe to move?' ON/OFF



**AUX Video Menu**



**If adding a front camera OR Aux Video source:**

1. Disconnect POWER/CAN Harness from interface
2. Place DIP SWITCH 1 in the DOWN position, reconnect power
3. Press and hold the (arrow) **Back** button on the jog control to activate 'NAVI' screen
4. Press **OK** button on remote 4 times, then press **POWER**

If the user wants only an AUX video input **without front camera**, set **AV1 SELECT** to **ON**, scroll to the end (right side) of the menu and exit menu.

**FRONT CAMERA** setting is used when **the user wants automatic front camera switching**. Options for 5, 7, 9 or 11 seconds are user-selectable for the length of time the front camera input stays active once the vehicle is placed out of reverse.

**Once finished with settings**, place DIP SWITCH 1 back into the **UP position** and reset power to interface (if this step is not taken, the unused 'NAVI' input will show as an additional video input when cycling video inputs)

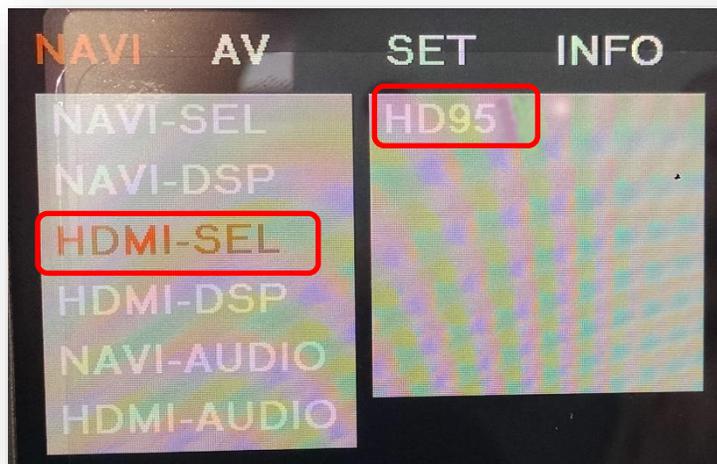
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## HDMI Setup

**In order to use the HDMI feature of this kit, it must be setup via the OSD menu first.**



1. Put dip switch #1 in the **DOWN** position.
2. Activate the 'NAV INPUT' by holding the **Back-arrow** button on the jog controller.
3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON 4 times**, then press **POWER**.
4. Navigate to the 'NAVI' section.
  - a. Select 'HDMI-SEL'
  - b. Choose 'HD95'
  - c. Press **MODE** on the remote to return
5. Navigate to the 'AV' section.
  - a. Select 'AV1-SEL'
  - b. Choose 'HDMI'
6. If the user desires **front camera timer**, set it up now through 'FRON CAM' under 'SET' and choose timer length. If adding front camera and no timer is desired, use DIP SWITCH #2 instead (only).
7. Replace dip switch #1 to the **UP** position.



## GVIF-LEX13 Operation

- Once all connections are made, placing the vehicle in reverse will display the connected camera image on the screen.
- Alternatively, connecting the provided external push button switch will switch active video modes.

