NAV-TV
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NTX54-Stand Alone

Stand Alone Garmin Navigation
NTV-KIT411/471

GARMIN™

Overview

Stand-Alone navigation powered by Garmin to add navigation to any OEM or aftermarket screen (additional parts maybe required). The system provides composite or RGB video for different screen designs. For more versatility, the system has an internal break to interrupt audio and introduce navigation audio an existing speaker in the vehicle for a seamless integration into the audio system. Currently this Garmin Navigation is controlled via the included IR remote control.

Kit Contents

NTX54 Garmin
KIT411: NTV-NAV009
KIT471: NTV-NAV015

Stand Alone IR Module
NTV-ASY166

Power Harness
NTV-HAR230

IR Eye
NTV-MIS038

IR Remote
NTV-REM004

External Speaker
NTV-HDW010

GPS Antenna
NTV-NAV012

NTV-KIT471 only

NAV-Traffic Antenna
NTV-CAB063

Required Tools

Strippers

Electrical Tape

Crimpers

Stand Alone IR Module Pin out

Pin #	Description	Color
1	12v (+) Ignition	Red
3	MUTE out (-)	Pink
4	RX (IR)	White
5	RS (Garmin)	Green
6	AUDIO IN (+)	White
7	AUDIO OUT (+)	Gray
8	NAV Audio IN + (3.5mm)	White
10	Ground (-)	Black
12	Shield (IR)	-Shield-
13	TX (IR, 5v)	Red
14	TX (Garmin)	Blue
15	AUDIO IN (-)	White/Black
16	AUDIO OUT (-)	Gray/Black
17	NAV Audio IN – (3.5mm)	-Shield-
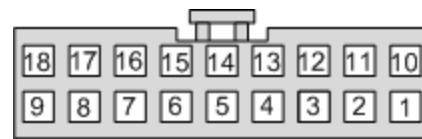
Wire Side

Garmin Navigation Pin out

Pin #	Description	Color
1	Composite Video out	Yellow
2	RGB Shield	-Shield-
3	RGB Green Signal	Green
4	TX Signal	Blue
9	Speaker OUT (+)	Black
12	12v (+) ACC INPUT	Red
13	Composite Shield	-Shield-
14	RGB Blue Signal	Blue
15	RGB Red Signal	Red
16	RGB Sync Signal	White
17	RX Signal	Green
21	Speaker OUT (-)	Black
23	Ground (-) INPUT	Black
24	12v (+) Constant INPUT	Yellow
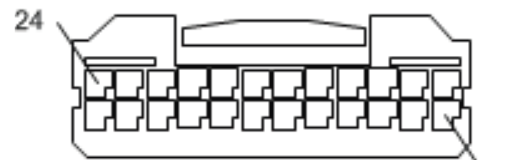
Wire Side

Installation

1. Remove radio or display from the vehicle and set it aside.
2. From the provided **Power Harness**, connect the following wires to the car:

Stand Alone Wires	Connect to car
Black	Chassis Ground (-)
Red	12v ACC (+)
Yellow	12v Constant (+)
*Pink (mute)	Radio MUTE output wire (-)
**Gray	Existing Speaker + (speaker side)
**Gray/Black	Existing Speaker – (speaker side)
**White	Existing Speaker + (car side)
**White/Black	Existing Speaker – (car side)

Optional: Vehicle may not have a mute wire.
Optional: Only connect if desired, only if vehicle has an existing center channel speaker (see step 8)

3. Connect the video output from the stand alone harness to the display via either composite (yellow RCA) or RGBS wires.

4. Connect the IR eye to the IR input plug, from the stand alone harness (mount eye in remote-accessible location).

5. Mount the provided Navigation antenna on or in the dash where it has a clear view of the sky. Mounting these antennas beneath plastic is usually acceptable, however if there is any metal between the antenna and the sky you will likely have connection issues. Run the plug end of the antenna back to the Garmin navigation module and connect at the proper port.

6. *If you purchased a NAV-TRAFFIC Garmin unit:* Connect the plug from the provided Nav-Traffic Antenna to the Garmin navigation module at the proper connector, and run the wire up an A-Pillar or somewhere close to the outside of the vehicle. Try to keep this antenna as stretched out as possible.

NAV Guidance Audio Options:

7. If using the provided *External Speaker* for NAV guidance audio, connect it straight to the 3.5mm female plug labeled *'EXT SPKR'* coming from the *24-pin Garmin NAV plug*.

8. If using an existing center channel speaker for NAV guidance audio:

      A. Cut the signal lines (going to the speaker) in half and connect the *Gray, Gray/Black, White and White/Black* wires in. Refer to the chart on *step 2* for proper connection.

      B. Connect the 3.5mm wire labeled *'NAV AUDIO IN'* to the plug labeled *'EXT SPKR'* in order for audio signal to pass through the IR module.

9. The pink wire labeled *'MUTE'* provides ground when navigation audio is played back.

Center Channel Speaker

Cut wires in half

Audio OUT - | Audio OUT +
Audio IN - | Audio IN +

CAR
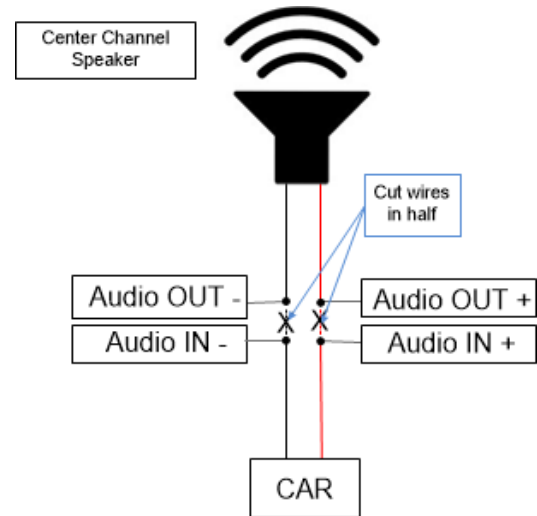
Stand Alone Garmin Operation

The Stand Alone Garmin system functions just like any other Garmin navigation system, with the exception that you must use the remote to control what's on screen (via the mounted IR eye).

If you've purchased the NAV-Traffic option, the included antenna must be plugged in to the NAV-Traffic port on the Garmin unit, and ran up inside the dash, or A-pillar as far as possible to gain signal.

When in the map screen, to gain access to the NAV Traffic options, you must press the *'SET'* button on the remote. To select 'avoid' (when it appears), use the *'MODE'* button on the remote control.

NAV Traffic *'AVOID'* accept

NAV Traffic select

MENU controls/ select location (on map)
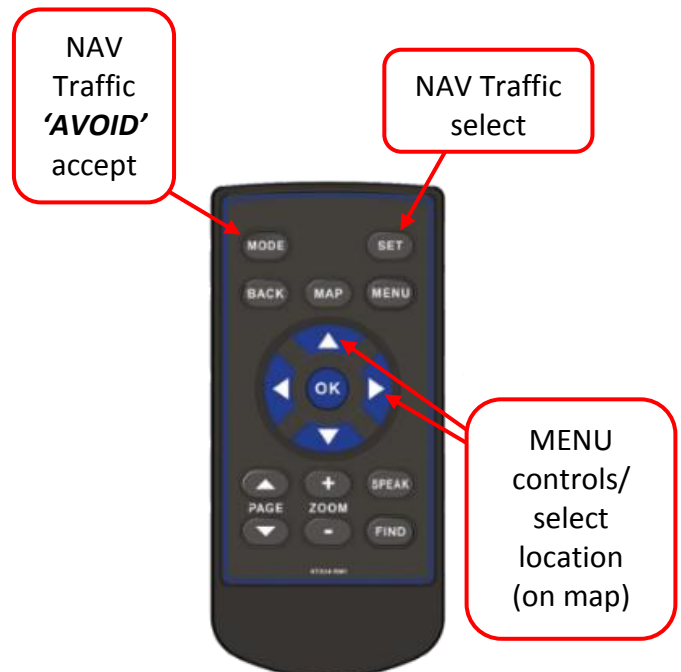
FAQs

1. q. My stand alone navigation doesn't retain settings after the key is turned off.

1.a. Make certain the yellow wire is connected to a constant source of 12v.

2.q. I receive no GPS signal.

2.a. Make sure the GPS antenna is able to see the satellite by ensuring there is no metal between the antenna and the sky (it can be mounted inside the dash, underneath plastic is acceptable, but it cannot be mounted underneath metal).

3.q. I've acquired a NAV Traffic antenna, but I have no indication on screen that this Garmin has NAV Traffic enabled.

3.a. You must order a Stand Alone/Garmin WITH NAV-Traffic (additional cost) from Nav-TV in order to reap the benefits of live NAV-Traffic. The NTX54 with NAV-Traffic is a separate module. Units without TMC are not field-upgradable. Contact us at 1-866-477-3336.

4.q. I do not hear any sound coming from the supplied speaker when NAV guidance is played back.

4.a. Make certain the speaker signal cable is connected into the correct plug labeled *'AUDIO'*. Also, make sure the front of the mounted speaker is not being blocked or muffled in any way.

5.q. My remote is not functioning.

5.a. Make certain the remote eye is connected into the correct plug labeled 'INFRARED'. Make sure the battery is inserted into the remote properly. If you happen to have a cell phone with a camera, aim the remote at the camera lens and press buttons. Most cell phone cameras are able to see the IR operation.

6.q. I have no video output to my screen.

6.a. Try a different screen, then try a different source to the screen you're trying to use, to rule out or confirm its our product that is causing the problem.

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