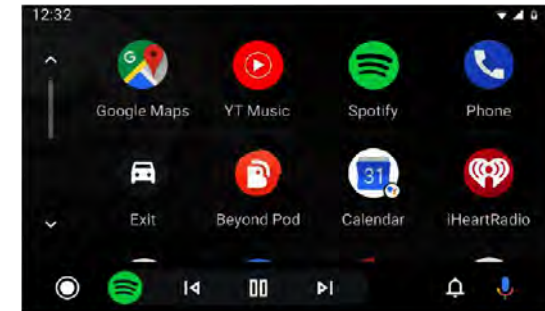
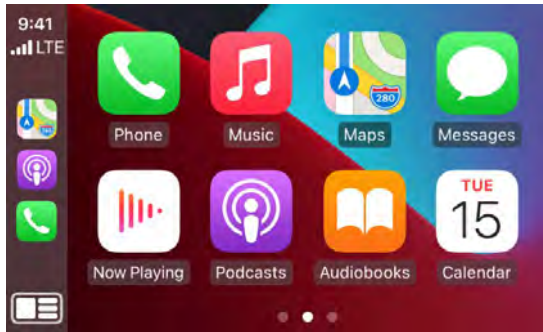


IT2-INF-Q



CarPlay / Android Auto + Camera input for Infiniti Q50
vehicles equipped with Dual Screen Systems



929-220-1212 / 877-241-2526 - www.zz-2.com

09/14/2021



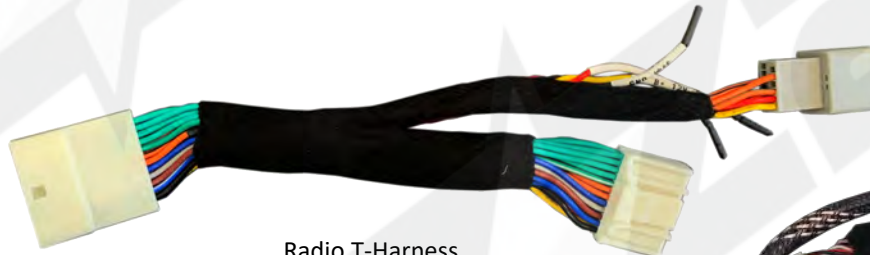
IT2-INF-Q

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

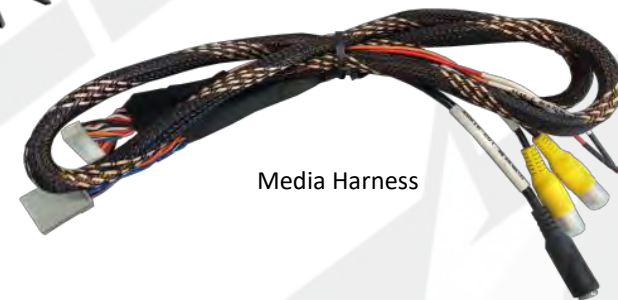
Kit Components:



ZZPlay Interface (IT2)



Radio T-Harness



Media Harness



3.5mm Audio Cable



USB INPUT Cable



Microphone



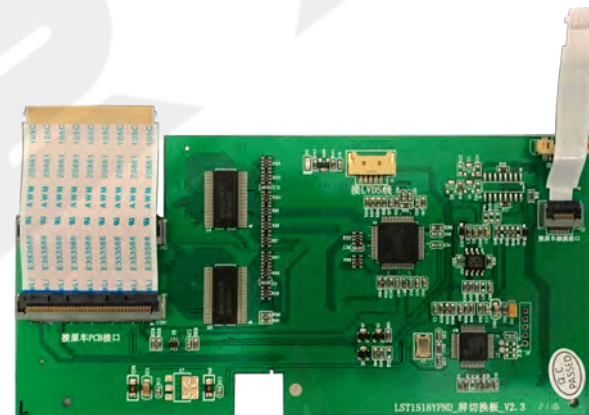
USB Adapter (updates)



USB to AUX Adapter
ONLY USE IF NO AUX PORT IS PRESENT



LCD Cable



Modification PCB



BT/WIFI Antenna (SMB)



IT2-INF-Q

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

Installation Diagram:

NOTES:

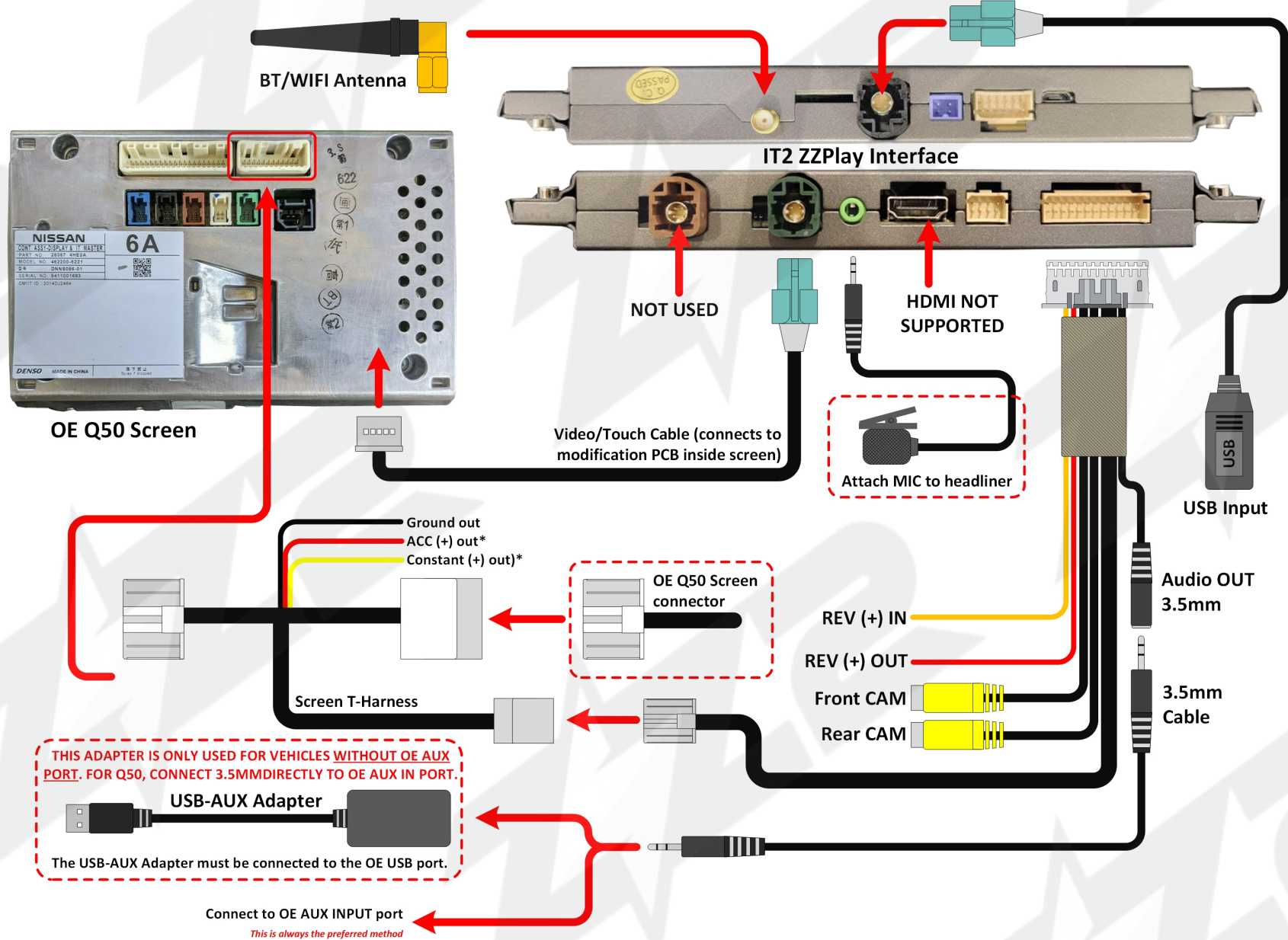
- You must be in AUX mode in order to hear audio playback from CarPlay mode.

- The USB-AUX adapter must be connected to an OE USB port, and the AUX cable must be connected here in order for CarPlay to output sound to the vehicle speakers.

- See next page for PCB Installation.

- ALL connections are performed at the TOP SCREEN.

- **If using these 12v outputs, connect to a RELAY first or damage to the system may occur.*

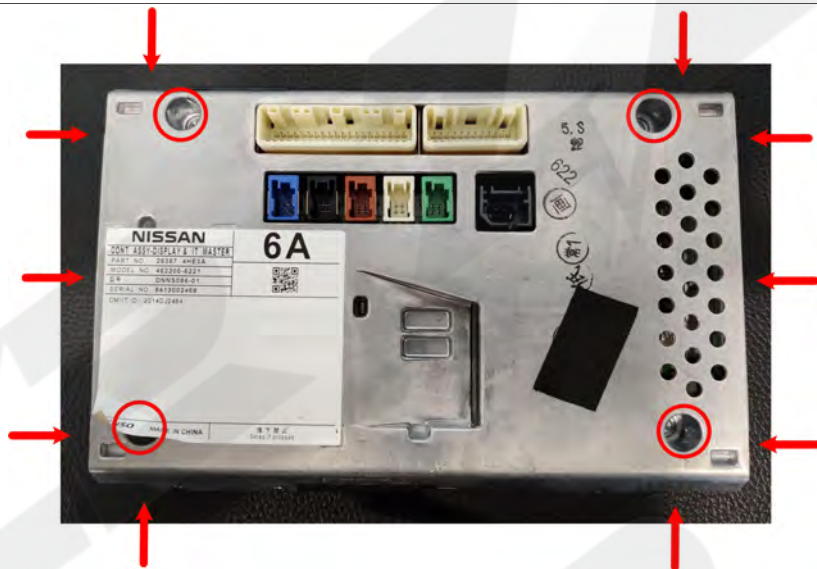




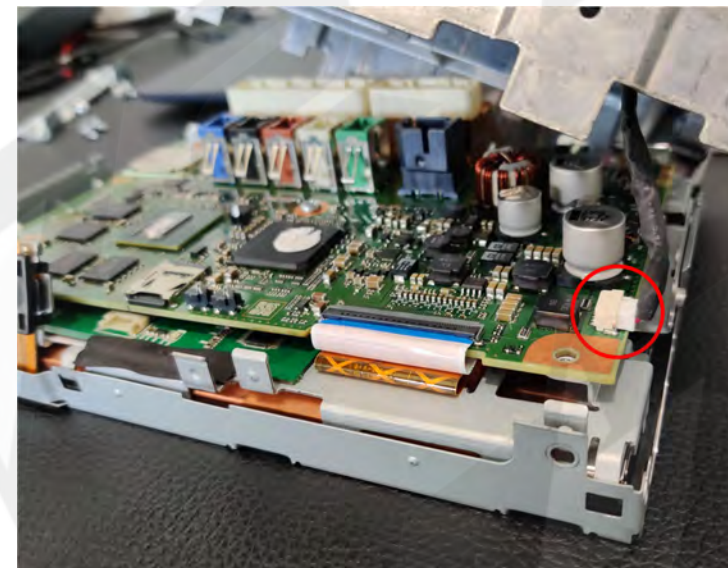
IT2-INF-Q

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

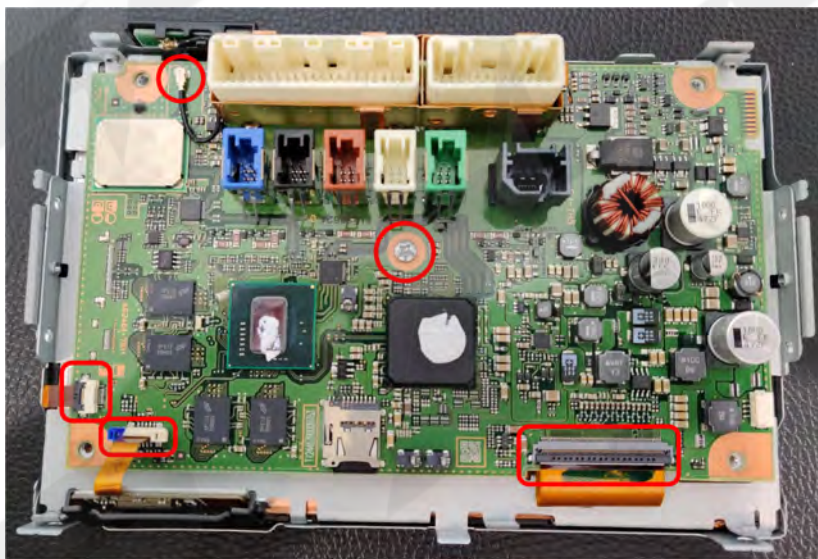
1. Remove screen from dashboard, take to bench and place upside down on SOFT surface. Remove all screws indicated by arrows and circles.



2. BE CAREFUL when lifting the back half of the screen, disconnect the fan cable first.



3. Remove center screw securing PCB to metal. Remove (3) ribbons and (1) antenna wire CAREFULLY.

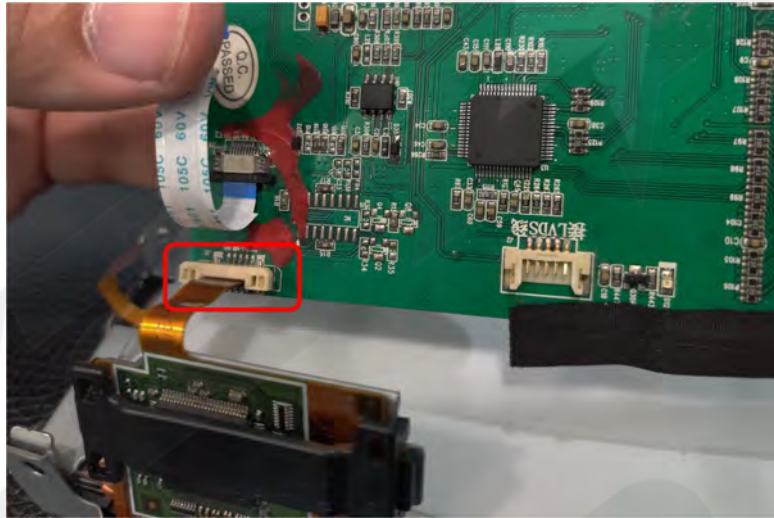




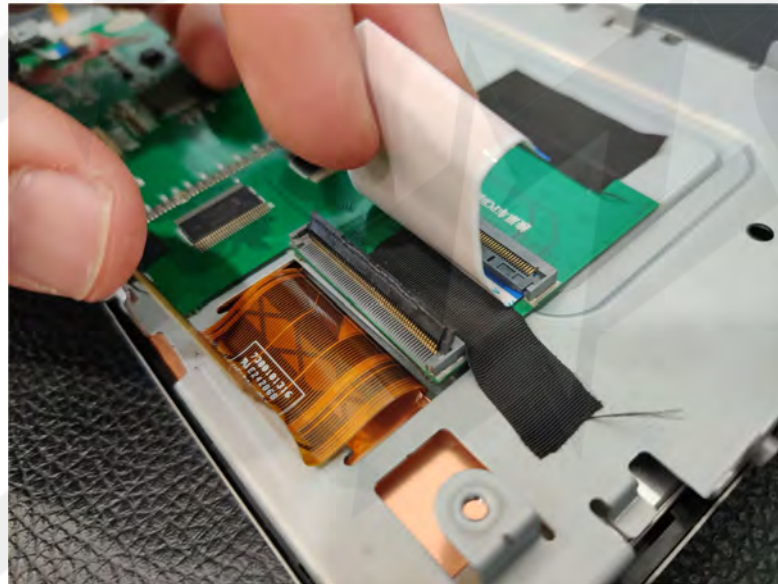
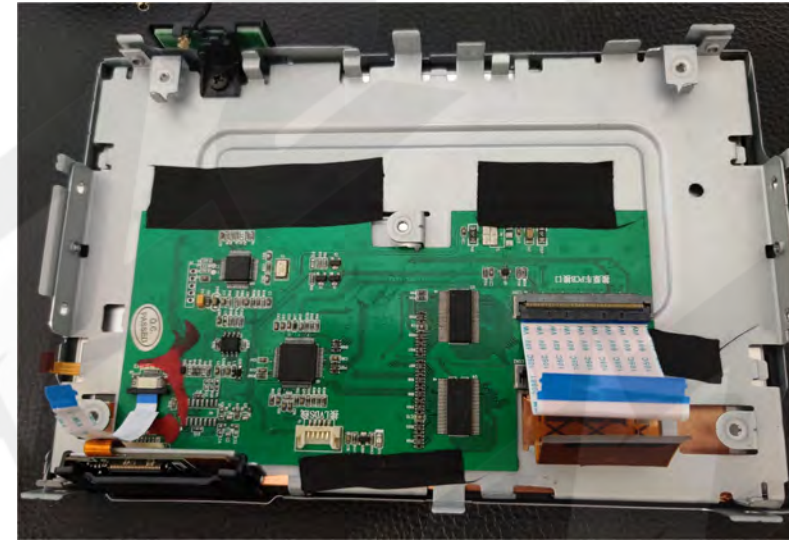
IT2-INF-Q

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

4. With the provided PCB sub-board, connect the OE touch ribbon (gold) to the touch connector on the PCB.



5. Place the PCB down, over the plastic protector to prevent shorting anything on the metal. It helps to tape over the edges of the PCB to keep it in place.



6. Next, carefully connect the OE screen ribbon cable (gold) to the provided PCB. Be sure this and all ribbons are seated fully and squarely!

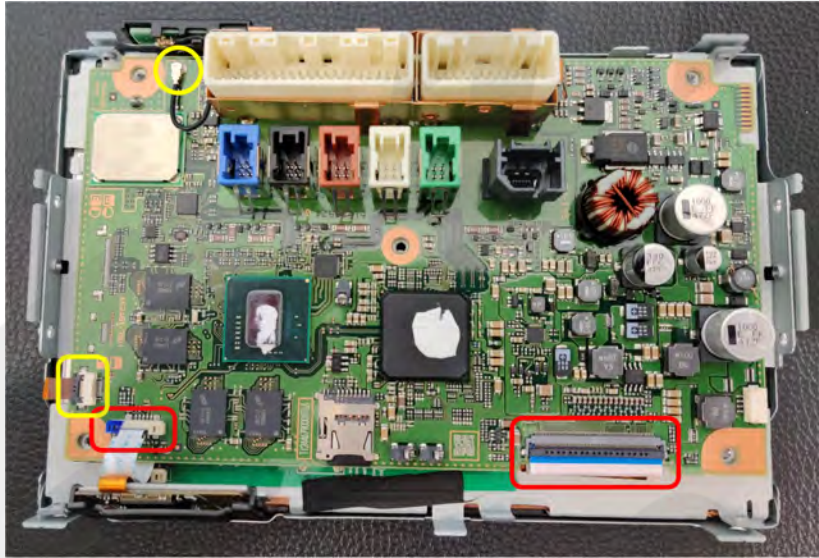




IT2-INF-Q

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

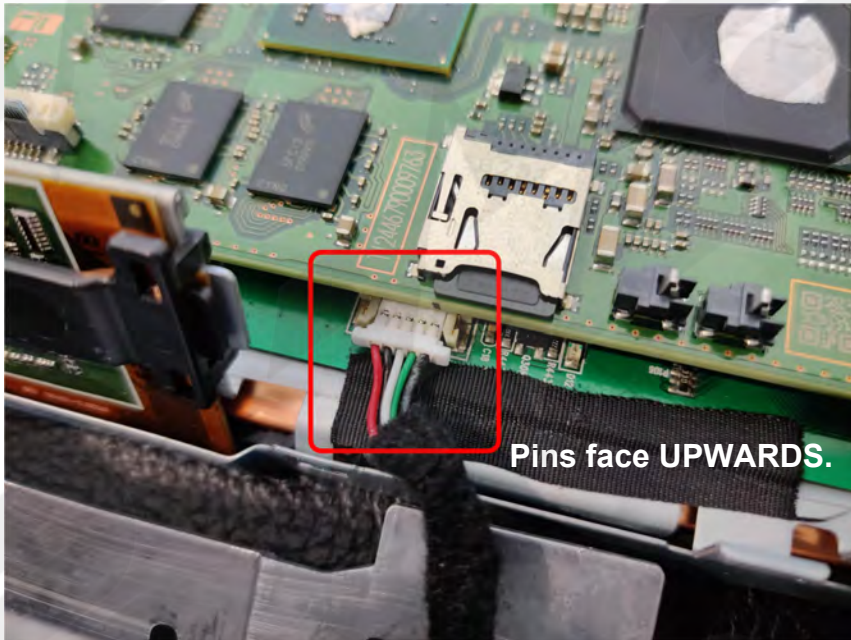
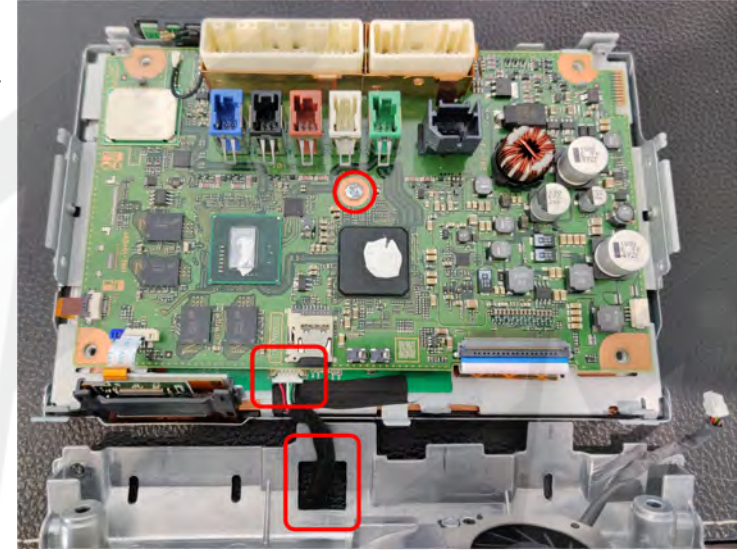
7. Carefully connect the provided ribbon cables to the OE PCB (red).



Connect the OE ribbon & antenna back to the OE PCB as well (yellow).

8. Replace the screw in the center of the PCB.

Run the provided LVDS cable (small connector end) through the metal casing of the screen and connect to the PCB like shown. See picture (below) for close up.



Pins face UPWARDS.

9. Reconnect the fan connector to the OE PCB. Run the LVDS cable outside (tape along way as you see fit) and then zip-tie the cable down to vents to prevent disconnection. Replace all screen screws.

Connect the HSD end of this cable to the interface port labeled 'LCD OUT'





IT2-INF-Q

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

DIP SWITCH:

DIP SWITCH SETTINGS - Cycle the power every time the settings are modified!

Dip Switch	Status	Description
4	ON	Reverse guideline OFF
	OFF	Reverse guideline ON
8	ON	Original Rear Camera
	OFF	Aftermarket Rear Camera
1,2,3,5,6,7 no function, set all OFF.		



IT2-INF-Q

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

How to access CarPlay/Android Auto:

NOTE: Switch to AUX audio source before entering CarPlay/Android Auto!

Press and HOLD **Back Arrow** to switch into CarPlay/Android Auto mode. Repeat press to get back to the OE Infiniti system mode.

If a front camera was added, each press (and hold) of the back arrow button will cycle through:
OEM>CARPLAY>FRONT CAM>OEM

NOTE: on some newer vehicles, this button does not function. In this case, use a momentary button to send ground to the BROWN wire (main T-Harness - cut from connector side)



Front View Camera:

To force Front View Camera on the screen at any time go to Settings>DVR and make sure the option is ON.

If CarPlay/Android Auto is on the screen, press and hold *Back Arrow* button to force front camera on.



IT2-INF-Q iPhone Pairing

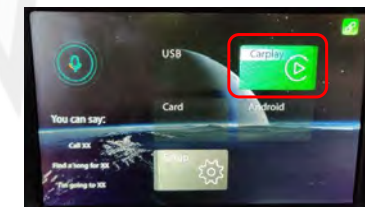
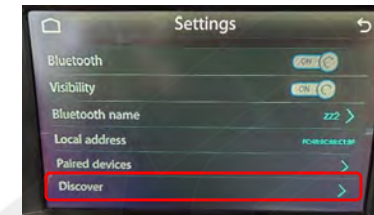
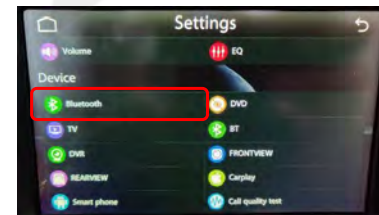
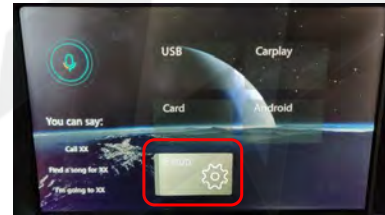
CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

For this system, it's best to try connecting to the Phone **via the interface first**, and if its having trouble connecting, find the interface through the phone (via Bluetooth) during this operation.

1. Begin by turning Bluetooth and WIFI ON on the iPhone first (Settings > Bluetooth – set ON, then Settings > WIFI – set ON)
2. Next, with the interface menu screen on the radio screen (see further down document for information on switching to the interface), choose **Setup**.
3. Once in settings, swipe down to **Bluetooth**.
4. Once in 'Bluetooth', choose **Discover**.
5. Shortly after entering the 'Discover' menu, 'iPhone' should appear.

Select it, and it will ask to pair. Pair with the phone to begin the CarPlay registration process.

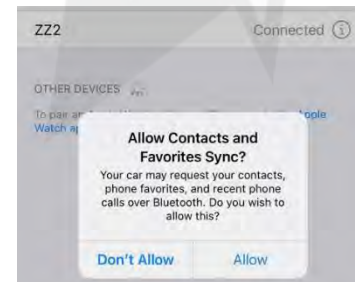
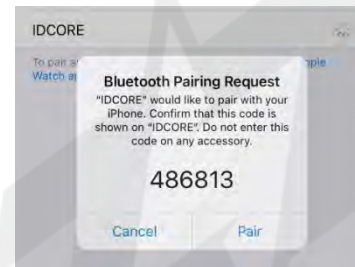
6. Follow the prompts on the phone to allow and use CarPlay. For a detailed step by step on this process, see the next page. Once the initial pairing is complete, CarPlay should load shortly. If not, go back to the main menu, and select 'CarPlay'.



1. When using a USB cable to connect your iPhone, **only use a certified Apple cable**.
2. To use wireless connectivity, follow these steps:
 - a. Go to Settings > Bluetooth and the phone should be able to find a Bluetooth device called 'IDCORE' or 'ZZ2' under 'Other Devices'.
3. A Bluetooth Pairing Request will be displayed on the screen with a specific code which should match what is shown on CarPlay. Select 'Pair'. Note: following the BT connection, there is no need to try and connect WIFI manually (although it does need to be ON), after the BT connection process is complete, the WIFI will connect automatically on its own.
4. Immediately following the Pairing notification, a new request to Sync your contact with the car will be displayed. Select 'Allow' in order to have caller ID and access to your contacts through CarPlay.
5. A notification asking for a permission to connect your iPhone to the car even when the phone is locked will pop up. Select 'Use CarPlay' and the CarPlay main screen should show up on the factory radio screen. If not, press & hold the switching button for 2 seconds to switch in and out of CarPlay (to OE radio mode). NOTE: the switching button will be different for each Car Model. Scroll down and find your vehicle manufacturer for more information on specific interface controls.

NOTE: If you're having pairing issues:

- Perform a 'hard reset' on the phone (will not delete data) in order to prevent any malfunction: With the phone unlocked, press & release VOL+, then press & release VOL-, then press and HOLD power for 10 seconds (wait for reboot – do not touch the screen).
- DELETE ALL other 'CarPlay' devices out of the phone (delete all in 'Settings – General – CarPlay')+
- Verify 'Low Data Mode' is not enabled in phone settings.
- Verify that the antenna is not mounted behind any metal dash panels.



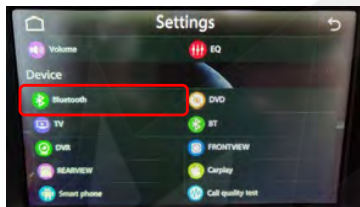
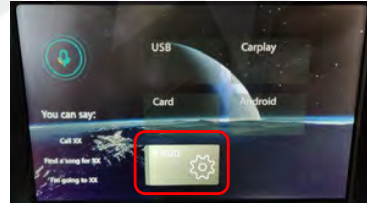


IT2-INF-Q Android Pairing

CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

For this system, it's best to try connecting to the Phone **via the interface first**, and if its having trouble connecting, find the interface through the phone (via Bluetooth) during this operation.

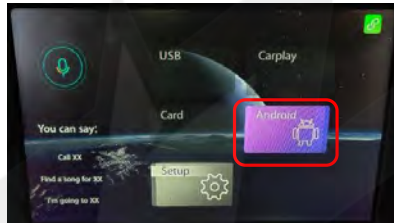
1. Begin by turning Bluetooth ON on the iPhone first (Settings > Bluetooth – set ON, then Settings > WIFI – set ON)
2. Next, with the interface menu screen on the radio screen (see further down document for information on switching to the interface), choose **Setup**.



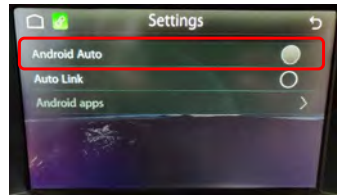
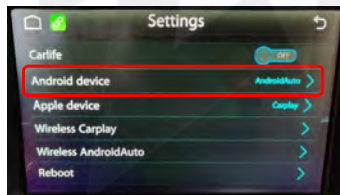
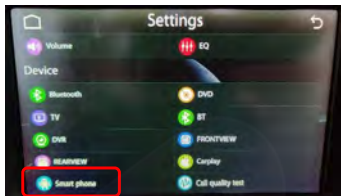
3. Once in settings, swipe down to Bluetooth.

4. Once in 'Bluetooth', choose Discover.

5. Shortly after entering the 'Discover' menu, the Android phone name should appear. Select it, and it will ask to pair. Pair with the phone to begin the Android registration process.



6. Follow the prompts on the phone to allow and use Android Auto. For a detailed step by step on this process, see the next page. Once the initial pairing is complete, Android Auto should load shortly. If not, go back to the main menu, and select 'Android'.

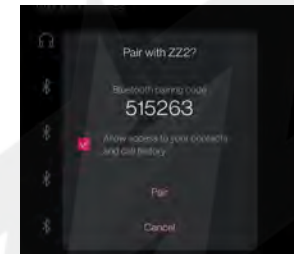
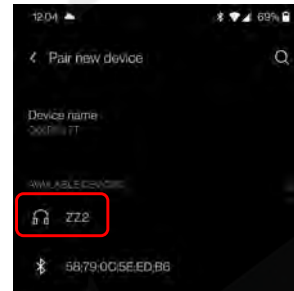


Inside **Setup**, swipe all the way down, press **Smart phone**

Choose **Android device**

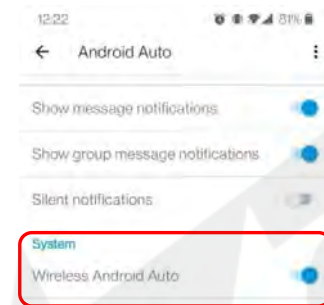
Make sure **Android Auto** is selected. Go back to the main menu and you should be able to choose **Android Auto** now.

1. When using a USB cable to connect your Android, only use a certified Android OE cable.
2. To use wireless connectivity (Android 11+ only), follow these steps:
 - a. Go to Settings > Bluetooth Device Connection, or LONG PRESS on the Bluetooth toggle to enter Bluetooth connections
 - b. Select 'Pair new device'
 - c. Choose 'IDCORE' or 'ZZ2'
 - d. Bluetooth Pairing Request will be displayed on the screen with a specific code. Select 'Pair'. Note: following the BT connection, there is no need to try and connect WIFI manually (although it does need to be ON), after the BT connection process is complete, the WIFI will connect automatically on its own.
 - e. Immediately following the Pairing notification, a system prompt may or may not appear for contacts sharing with the system. Allow all requests for the best user experience.
 - f. Shortly after allowing/denying pairing requests, Android Auto will appear on the main screen automatically (for most phones). If not, press & hold the switching button for 2 seconds to switch in and out of Android Auto (to OE radio mode). NOTE: the switching button will be different for each Car Model. Scroll down and find your vehicle manufacturer for more information on specific interface controls.



NOTES:

- Not every Android phone will work wirelessly. Pixel, Samsung & OnePlus devices equipped with Android 11 (or higher) have been tested to function well wirelessly. If your phone is having issues with wireless connectivity, verify with the installer that the antenna is not mounted behind any metal. If issues continue, use the original USB-C cable instead and connect to the interface's USB Input (do NOT use an aftermarket USB cable! – also, the vehicle's USB port is NOT used).
- Verify that 'Android Auto' is installed on your phone.
- Verify that in Android Auto settings (phone) that 'Wireless' is turned ON.
- Verify that WIFI is ON. The WIFI will connect automatically after Bluetooth has been properly paired.





IT2 Interface Menu Overview

To gain access to the Interface menu, start in CarPlay/AA mode, and locate the exit tile, labeled as **'Infiniti'**. Selecting this tile will bring you in the interface setup menu, NOT the OE system.



Change language here.

Indicates a Phone is currently linked.

Change (interface) wallpaper.

System updates require access to this menu.

EQ setup adjustments (for AUX mode only)

Volume settings adjustments (alerts, Navigation, etc)

Display settings adjustments.

Interface Version info.

Bluetooth Connection Settings for initially pairing.

NOT USED in North America

Toggle Interface Bluetooth OFF/ON here

Turns on Front Camera view for showing front camera after leaving reverse gear for ~10 seconds. NOTE: DVR must be set to 'OFF' for this feature to work.

NOT USED in North America

CODE: 1123. Adjusts the vehicle MAKE ICON button – This button exits CarPlay/AA and enters you into the interface menu (this menu)

Run this call quality test with all doors closed, engine running, no phone connected for improved MIC performance.

Smartphone settings (general) If using Android, 'Android Device' must be set to 'Android Auto' here.

Adjust Rearview guideline settings or turn off rearview camera entirely

Activate FRONT CAM toggle – if a front camera was added, turn this setting ON to view the camera at any time by pressing and holding the CarPlay activation button (NAV) Note: 'FRONTVIEW' must be set OFF for this feature to work.

NOT USED in North America

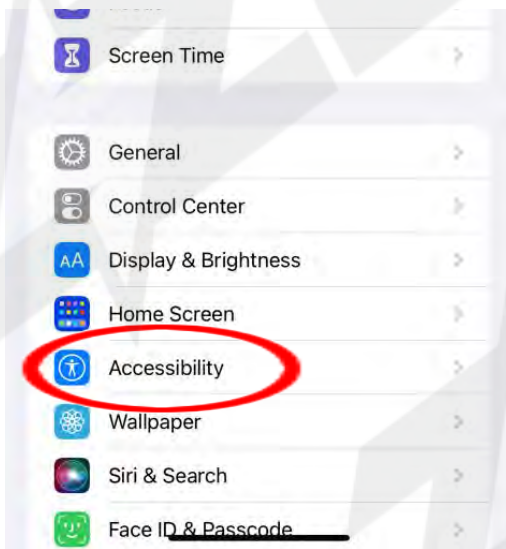


Call Audio Routing (iPhone)

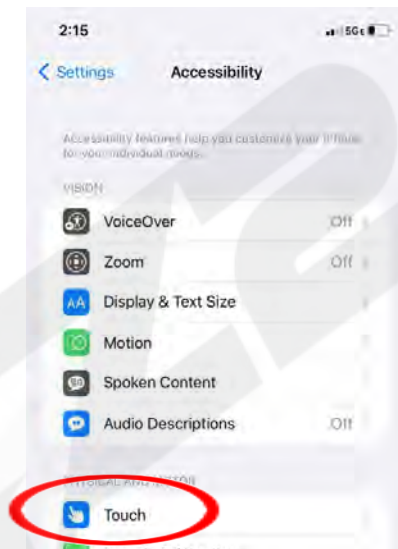
CarPlay / Android Auto + Camera input for Infiniti Q50 vehicles equipped with the dual-screen System

CALL AUDIO ROUTING: If using the OEM system to handle phone calls, answer incoming calls with the steering wheel. **Also if using iPhone**, set 'Call Audio Routing' to 'Bluetooth Headset' (default is 'Automatic').

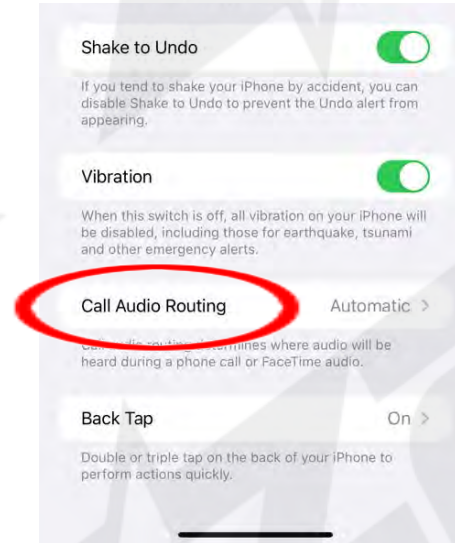
Settings > Accessibility



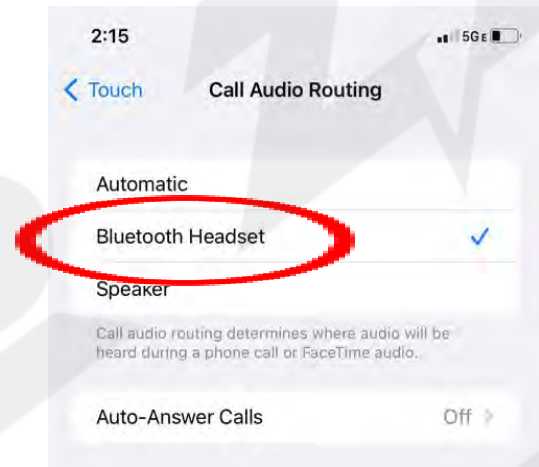
Touch



Call Audio Routing



Call Audio Routing > set to 'Bluetooth Headset'





Question: *I can't hear any audio from the CarPlay/Android Auto system.*

Answer: Your OE system must be resting on AUX mode in order to hear any sound from the kit. This includes during phone calls. NOTE: Some systems AUX input are not labeled 'AUX', it may be labeled 'Media Interface' or there may be an audio conversion to the vehicle's USB input. Check with your installer for more information.

Question: *I'm hearing reports of a lot of echo or delayed echo on audio during a phone call. Why is this happening and how can I eliminate this?*

Answer: This happens because we are using the OEM AUX input for audio, and the AUX path travels through the OEM amplifier, where there is active time-alignment & processing on this audio channel. There are a few ways to fix this problem, and there are Pros & Cons to each choice:

1. Use the OE Bluetooth system to handle all phone calls, and answer all incoming phone calls **from the steering wheel, always. To dial out using this method, you must use SIRI or voice command activation (typically hold control knob down for 4 seconds). Some vehicles, when using the CarPlay/AA control in recent calls, the system will still use the OE Bluetooth to handle phone calls, but not all vehicles will operate this way.** NOTE: This method will sound the best for both parties on the phone call - to use this method, you MUST be paired to the OEM Bluetooth system simultaneously with the ZZPLAY unit. **PROs:** sounds the best, and regardless of what audio source you're currently on, using this method will switch to a 'phone call state' and return you back to the source you were on (FM, AUX, etc) once the call is ended. **CONS:** Your phone must connect to both the ZZPLAY unit and the OE Bluetooth for every drive, and the reliability of these connections happening properly upon every startup will be lower (only about 90% vs 100%).
2. Use the built-in 'AEC Auto Setup', or 'Call Quality Test', or 'Echo Cancellation' tests to adjust MIC settings for the microphone input of the ZZPLAY unit. These tests are found in the ZZPLAY setup menu typically under 'Audio' or somewhere similar. Some vehicles require a level of adjustment which will never be achieved, in these cases use the OE Bluetooth system (see choice 1). **PROs:** If this method works, it is the most reliable way of using the kit. **CONS:** You MUST be on AUX in order to hear the person you're speaking with. IE: if you use FM or SAT, while using the visual from CarPlay (maps, for example) and a phone call comes in, you must switch to AUX mode before you will hear the person when you answer the call. This is very cumbersome which is why we suggest to stay connected to the OE Bluetooth and allow the car to handle the phone calls.

Question: *Sometimes my phone won't connect lately / Sometimes when it connects the screen goes black / Sometimes CarPlay kicks me out back to the interface menu.*

Answer: For iPhone users, you must perform a 'Hard Reset' on the phone in use on average twice a month to clear certain cache and reset the processors (this will not wipe any data). Google search 'Hard Reset iPhone 13' (or whatever version iPhone version you have) and perform that task. After this is done, you will see a difference in speed and reliability (of pairing/connecting).

Question: *Incoming text responses from SIRI are silent on CarPlay. It mutes the audio but I don't hear the read-out.*

Answer: This often happens for 2 reasons: The iPhone needs a hard-reset (see previous question), or the phone is connected to the vehicle's OE Bluetooth for both **phone calls & audio (and the text read-outs are being sent to the vehicle BT source - you're on AUX source)**. You want to be connected to the vehicle for phone calls ONLY - for iPhone the only way to make this distinction is to adjust the phone setup on the OE radio side. Find your phone (name) in the Bluetooth or Phone setup in the OEM radio settings and disconnect as an audio player. NOTE: *not all vehicles have this option, but it seems to happen mostly with cars that do have this option (Lexus, etc).*

Question: *Using Android, I cannot get the phone to reliably connect wirelessly (or at all).*

Answer: Android phones are more finicky and iPhones with their wireless connectivity. Make sure the OS is fully up-to-date. Clear the cache on the Android Auto application. The Android OS must be at least version 11. Some phones (TCL, Motorola) seem to have protocols that don't play nice with every system. If you run into this, use a good USB-C cable for the Android Auto Connection instead.



support@zz-2.com

929-220-1212

Toll free: 877-241-2526

Extension 2: Tech Support

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