

# CRUX ACPLX-12ZW Smart-Play Integration with Multi Camera Inputs Owner's Manual

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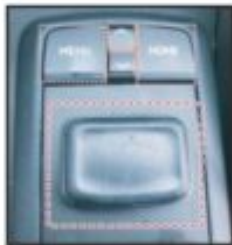
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## CRUX ACPLX-12ZW Smart-Play Integration with Multi Camera Inputs Owner's Manual

### PRODUCT FEATURES:

- Smart-Play Integration system allows connection of Android and other phones to the Lexus infotainment system.
- Integrates Wired/ Wireless Android Auto and CarPlay.
- Retains functionality of the OEM backup camera if present.
- Utilizes factory microphone for voice controls.
- Uses the factory Jog Mouse or Touch Pad for Smart-Play controls.



4 button Jog Mouse



4 button with MAP



5 button Jog Mouse



Touch Pad

## PARTS INCLUDED:



ACPLX-12ZW Module



Power Harnesses



Smart-Play Interface Module



USB Extension Cable  
(Optional)



4K HDMI Cable

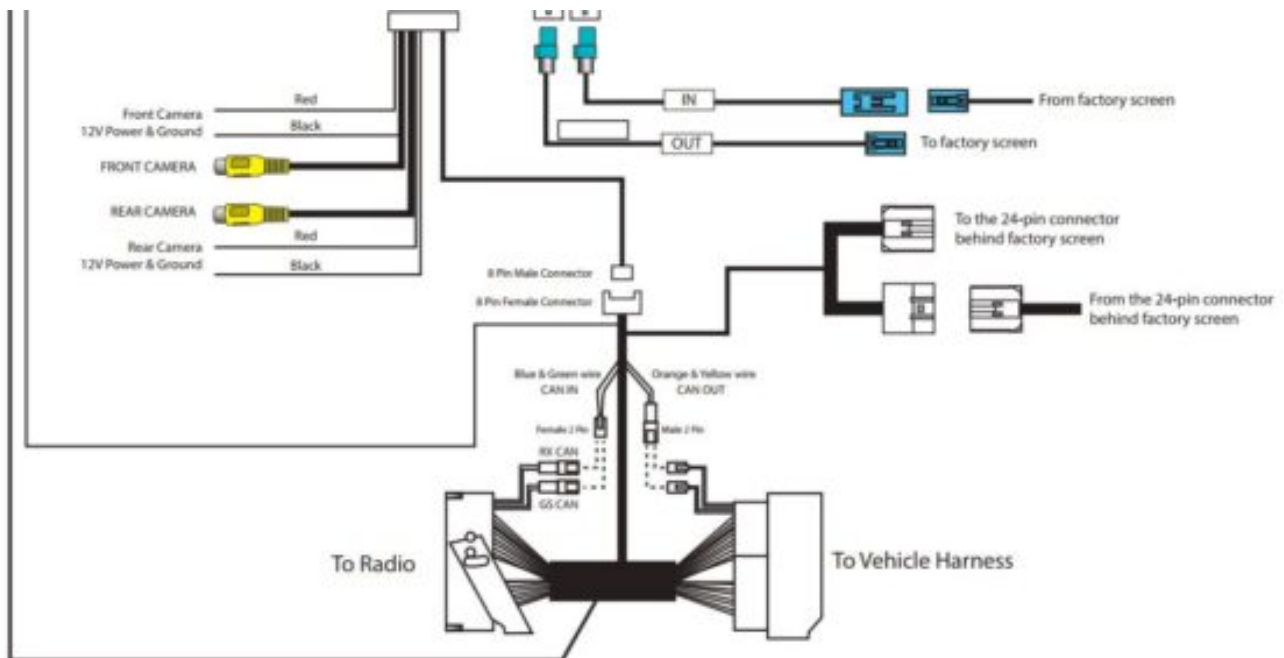
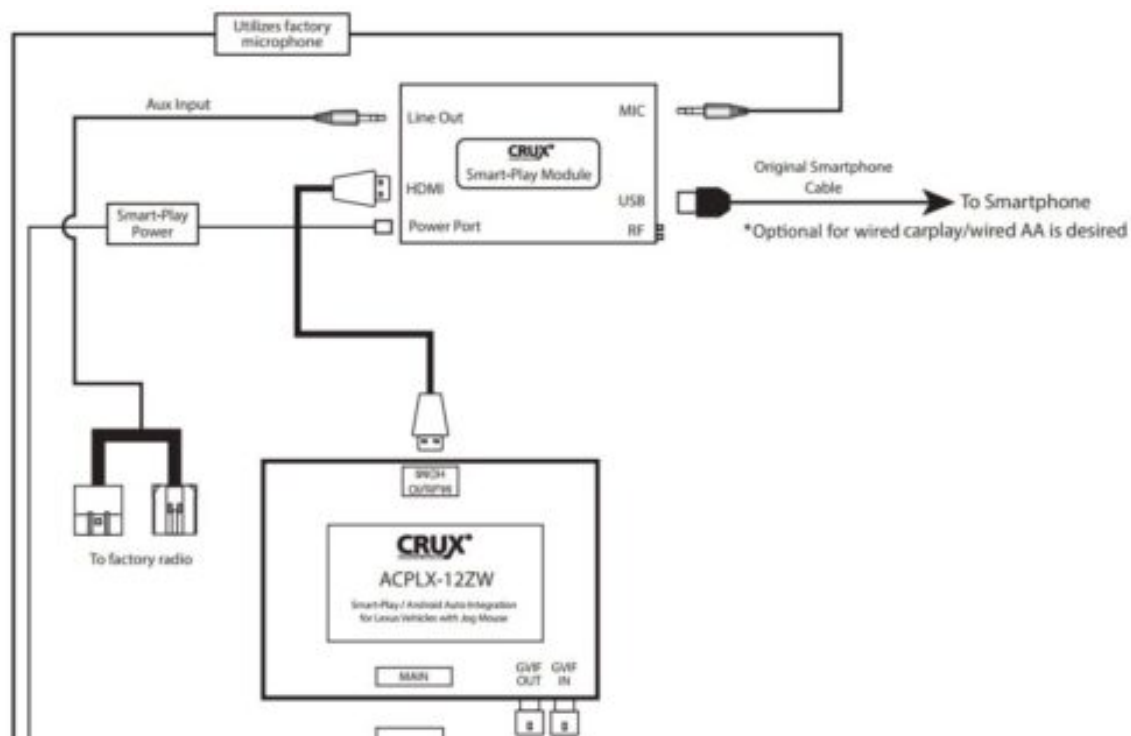


Aux Input Harness



GVIF Video Cables

## WIRING DIAGRAM:



## DIP SWITCH SETTINGS:



DIP	SETTING	YEAR	VEHICLE
1 to 8	ALL UP	2015-2020	RX 12.3", GS 12.3", LS 12.3"
6	DOWN	2016-2020	LC200 9", Toyota Land Cruiser, & 2018 IS 10.25"
6 & 8	DOWN		Reserve
6 & 7	DOWN		Reserve
6, 7 & 8	DOWN		Reserve
5	DOWN	2012-2019	GS 12.3", RX12.3", LS 12.3" (OEM PIP Display)
5 & 8	DOWN	2014-2022	GX 8"
5 & 7	DOWN	2010-2019	RX 8"
5 & 7	DOWN	2013-2019	NX 7", IS 7",
5 & 7	DOWN	2013-2018	ES 8"
5 & 7	DOWN	2014-2017	CT 7"
5 & 7	DOWN	2014-2020	GS 8"
7 & 8	DOWN	2014-2019	Toyota Land Cruiser LC200 9", 2008~2013 Toyota Land Cruiser (OLD GVIF Cable)
5 & 6	DOWN	2011- 2013	CT200H 7"

5,6, & 8	DOWN	2018-2022	UX 7", 2019~2022 LS 8", 2018~2022 ES 8", 2018~2022 NX 8"
5,6, & 7	DOWN	2013-2018	ES 8" (Type 2)
5,6,7, & 8	DOWN		Acura MDX (Reserve)

**NOTE:** If experiencing issues, try the dip switch settings below:

dip switch 2	DOWN	If Lexus RX 12" screen blinks or flickers
dip switch 4	DOWN	If steering wheel track down button is unresponsive
		If screen is noisy or flickering, replace HDMI cable (must be HDMI 2.0)

**On vehicles with a 12.3" screen, you can change the screen resolution to show 5 horizontal App icons. GO to main menu and select "SETTINGS". Use the Jog Mouse to scroll and make changes the settings.**

Set "Android Auto Link:" to ON for smartphone mirroring on Android phones

Set "CP" to 1024 x 600  
Set "AA" to 1024 X 600



## CAN CONNECTIONS:

The ACPLX-12ZW t-harness has CAN connections for use on specific Lexus models. See the connection chart below:

CAN Connection	Lexus Model
GS CAN	CT, ES, GS, LS, NX & RC
RX CAN	RX & LX

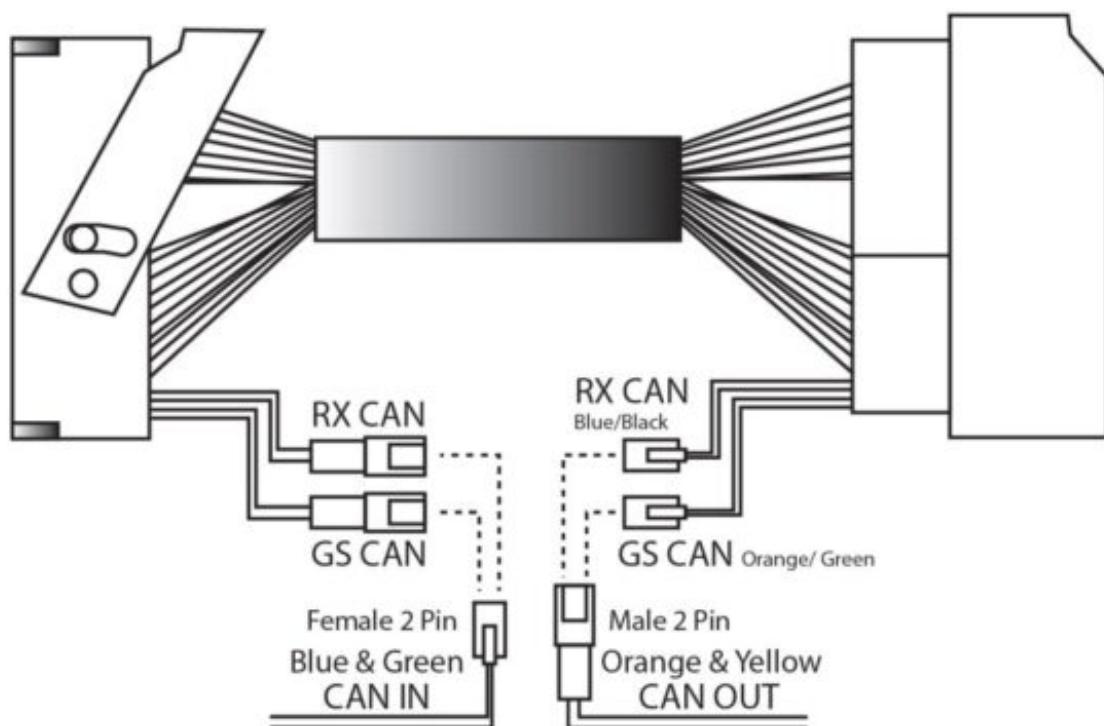
Note: On some RX models, you will need to use the GS CAN connection if the Jog mouse controls do not work.



**Follow the diagram below for the next steps.**

Unplug the CAN connection to be used in the installation (RX CAN or GS CAN). Plug the male RX or GS CAN 2 pin connector to the female “CAN IN” connector on the ACPLX-12ZW t-harness. Plug the female RX or GS 2 pin connector to the male “CAN OUT” connector on the t-harness.

**IMPORTANT:** Unplug the CAN connection that WILL NOT be used in the application.



## INSTALLATION INSTRUCTIONS:

NOTE: Connections are made behind the radio and behind the screen.





1. Remove the trim under the glove box.



2. Remove the right side trim along the center console.



3. The left side trim is secured with a bolt under the ignition button.



4. Pull out the center console from the back cup holder.



5. The radio is secured by 4 screws.



6. Plug the 62 pin t-harness provided to the factory radio.



7. Remove the AC vent and the trim around the factory screen.



8. Plug the 24 pin power t-harness provided to the factory screen.



9. Use the GVIF video cables provided and plug to the screen.

NOTE: Connections are made behind the radio and behind the screen.



10. Plug in the HDMI cable provided to the ACPLX-122 and Smart-Play modules



11. Plug in the power harness and LVDS cables to the module.



12. Plug in the microphone cable to the Smart-Play module. Optional plug in original smartphone cable to USB Ext. cable for wired connectivity

## WIRELESS CARPLAY/WIRELESS ANDROID AUTO CONNECTION SETTINGS

### Android Auto Wireless connection

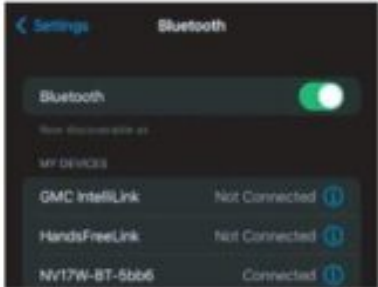


Have Android AutoLink OFF




Have wifi & Bluetooth enabled.

### Apple Carplay Wireless Connection




Have wifi & Bluetooth Connected



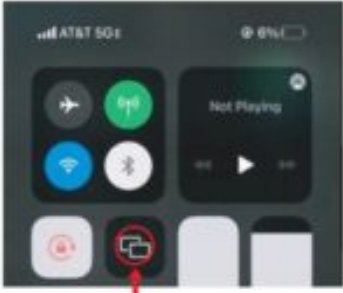
Wait for screen that will state  
Use Carplay with "NVF17W-WIFI"

## SMARTPHONE MIRRORING CONNECTION

## Smartphone Mirroring Connection for Iphones



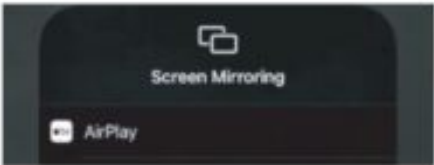
Enable Wi-Fi and connect to "NV17W" module



Open Control Center and Tap Screen Mirroring

a. On iPhone X or later; iPad with iPadOS 13 or later: Swipe down from the upper-right corner of the screen.

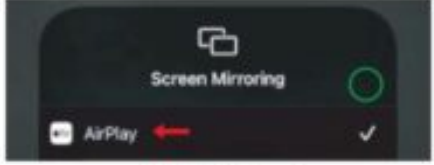
b. On iPhone 8 or earlier or iOS 11 or earlier: Swipe up from the bottom edge of screen



Screen Mirroring

AirPlay

Airplay will pull up on screen mirroring app




Screen Mirroring


AirPlay

Select "Airplay"

## Smartphone Mirroring Connection for Androids




Enable Android AutoLink




Download Vehicle multimedia entertainment APP Autolink Pro APK

Download AutoLink Pro APP Available in the "Play Store"



On AutoLink Pro APP find the Device and Tap to Connect



Start recording or casting with Autolink Pro?

Autolink Pro will have access to all of the information that is visible on your screen or played from your device while recording or casting. This includes information such as passwords, payment details, photos, messages, and audio that you play.

Cancel Start now

Select "Start Now"

## AUDIO INPUT TO VEHICLE:

The Smart-Play audio will use the vehicle's auxiliary input via the factory radio connector. Make sure to plug in the 3.5mm audio connector of the ACPLX-12ZW Aux-in harness to the Smart-Play module "Line Out" port. See diagram on page 2. Change the factory radio "Audio Source" to "AUX" in order for the Smart-Play audio to be



heard on the factory audio system. Note that the factory aux input cannot be used while in Smart-Play mode.

The ACPLX-12ZW utilizes the factory microphone. Make sure to plug in the 3.5mm mic connector of the ACPLX-12ZW harness to the Microphone port of the Smart-Play module. See diagram on page 2.

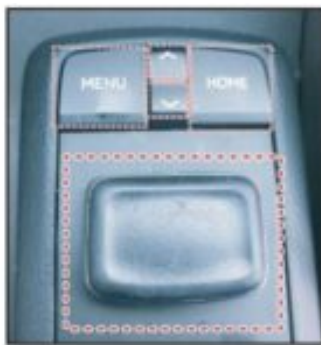


Plug in the AUX-IN t-harness to the factory radio aux connector.



Select AUX for Audio source on the factory radio.

## OPERATION:



4-button Jog Mouse



5-button Jog Mouse



Touch Pad

MENU	Activate Siri or Google voice command	
HOME	Long press = Activate CarPlay / Android Auto	Short press = back to OEM screen
MAP (for 5-button)	Long press = Activate CarPlay / Android Auto	Short press = back to OEM screen
UP	Track Up	
DOWN	Track Down	
JOG MOUSE	Navigate CarPlay / Android Auto	
RETURN	Return	

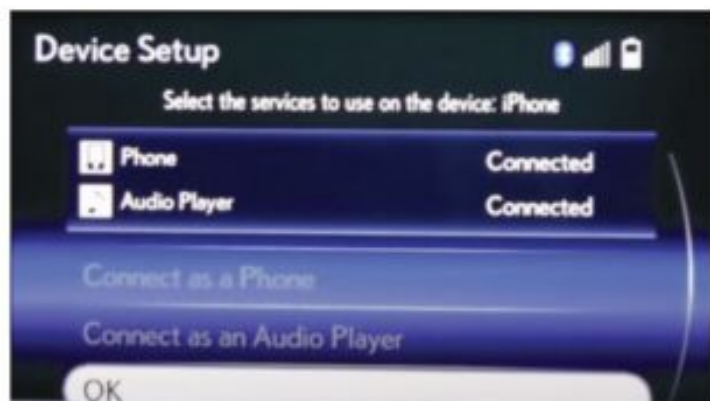
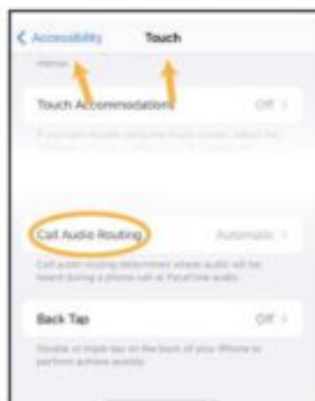
## VEHICLE APPLICATIONS:

Compatible with Lexus vehicles with OEM Navigation and 4 or 5 button Jog Mouse or Touch Pad.

Lexus	
2014-2017	CT 200h
2013-2022	ES 350 / 300h
2013-2014	GS 350 / 450h
2015-2020	GS 200t / 350 / 450h / GS F
2018-2020	GS 300 / 350 / 450h / GS F
2013-2022	LS 460 / 600h L
2010-2020	RX 350 / 450h
2014-2019	IS 250 / 200t / 300 / 350
2015-2017	RC 200t / 300 / 350 / RC F
2014-2019	NX 200t / 300h
2016-2020	LX 570
2018-2022	UX

## TROUBLESHOOTING

\*If your call audio does not use car's bluetooth, manually change it on the phone to select the vehicle during the call, then the phone should remember the last used setting



Changing the call audio routing setting to “BLUETOOTH HEADSET”

Go to Settings – Accessibility – Touch – Call Audio Routing. Keep it at “Automatic”

1. IF the screen is black & not showing factory infotainment screen or the CarPlay/Android Auto Screen
  - Confirm secure connection of GVIF cables to the top monitor.
  - Confirm GVIF cables are not damaged, pinched, kinked or bent.
2. No trigger issue /No click heard when long hold applied on MAP or home button
  - Check and confirm proper connection of the Main Car Interface Harness, CAN bus board, and 30-pin Car Interface Harness.
  - Check and confirm no loose pins or damage to the harness. Green/RED LED Light should be visible from the Metal Box
3. When long hold is applied on MAP or Home button, black screen appears
  - Confirm proper secure connection of the HDMI Cable.
  - Confirm power wire is connected on the CarPlay Box. Red LED light should be visible from the CarPlay Box.


4. Screen image glitching or distorted
  - Confirm correct dip switch setting.
5. Hands free call quality noise and echo
  - For iPhone, confirm the phone is connected to your vehicle via Bluetooth and “Call Audio Routing setting” Keep it at “Automatic”
  - For Android, confirm Bluetooth is being used for calls by observing phone’s call audio output.
6. **No sound**
  - Confirm AUX cable connection, which is on the HDMI side of the CarPlay Box.
  - Confirm Car Media Source is in AUX mode. Confirm sound output from the phone to CarPlay module.
7. Siri does not recognize my voice
  - Confirm Microphone jack connection (3.5mm), which is on the USB side of the CarPlay Box.
  - Confirm that there are no wire damage.
8. Switching from Smart-Phone Mirroring to CarPlay/Android Auto
  - If device is unresponsive or glitching, turn vehicle off and allow module to sleep then try again.

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**Read More About This Manual & Download PDF:**

## Documents / Resources

	<p><a href="#">CRUX ACPLX-12ZW Smart-Play Integration with Multi Camera Inputs</a> [pdf] Owner's Manual ACPLX-12ZW, Smart-Play Integration with Multi Camera Inputs, ACPLX-12ZW Smart-Play Integration with Multi Camera Inputs, ACPLX-12ZW Smart-Play Integration with Multi Camera Input s for Select 2013-2019 Lexus Vehicles with OEM NAV and Jog Mouse or Touch Pad</p>
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## References

- [C CRUX Interfacing Solutions](#)