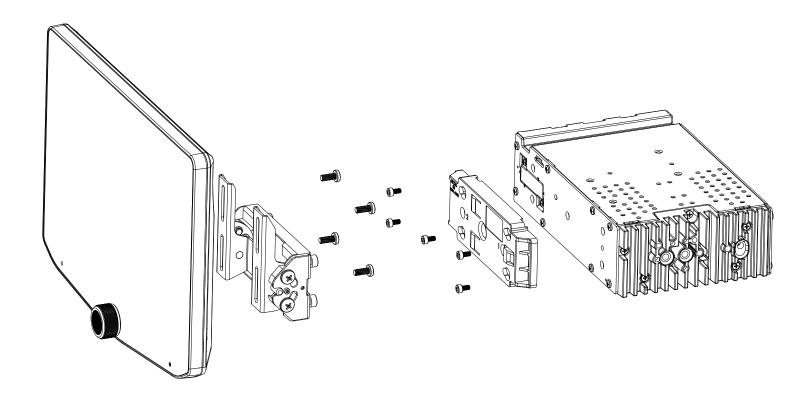




INSTALLATION GUIDE

10-INCH MODULAR MULTIMEDIA DISPLAY SYSTEM

MODEL NUMBER: iX210E



PRECAUTIONS

Installation of this product requires technical skill and experience. It is recommended to have it professionally installed by an authorised Stinger Dealer.

Read entire instructions thoroughly before starting.

Disconnect the vehicle's negative battery cable before making any wire connections.

Protect all vehicle surfaces with tape or plastic

Do not install components in any location that will hinder vehicle operation, such as steering wheel, gearshift, air bags, hazard switch, warning lights.

All wiring should be secured away from sharp edges and moving parts.

Visit stingerelectronics-eu.com for updates and further information.

TECHNICAL SUPPORT: supportaampeu.zendesk.com

CUSTOMER SOLUTIONS: +44 (0) 1384 958 500 stinger.eu@stingersolutions.com



94, Vantage Point, Second Avenue, Pensnett Trading Estate, Kingswinford, West Midlands, DY6 7FS. **AGREEMENT:** End user agrees to use this product in compliance with the instructions and terms of use and with all State and Federal laws. STINGER provides instructions and safety warnings with respect to this product and disclaims all liability for any use not in conjunction with those instructions or other misuse of its product. If you do not agree, please discontinue use and contact STINGER. This product is intended for off-road use and passenger use only

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MODEL NUMBER: iX210E



INSTALLATION GUIDE

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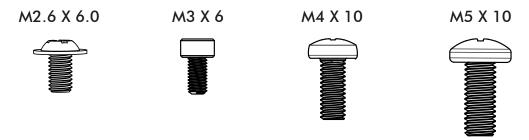
Parts List

QTY	DESCRIPTION	PART NO
1	Touch Panel Display	ix210-D
1	Radio Module	ix210E-M
Mount	ing Brackets / Hardware	
1	Radio Bracket - Nose Bracket / Display Bracket	
1	Nose Bracket - Radio Bracket	PSE-2000
1	LVDS Connector Rear Cover	
4	M4 X 10 Screw	
5	M5 X 10 Screw	PSE-2002
1	M2.6 x6.0 Screw	
10	Waterproof Plug	
Cables	s / Harnesses	
1	16 Pin AV Harness	PSEH-2103
1	12 Pin Pre-out Harness	PSEH-2104
1	14 Pin Data Harness	PSEH-2105
1	26 Pin Power Harness	PSEH-2102E
1	LVDS Display Cable	PSEH-2101
1	External Microphone	PSEH-1108
1	GPS Antenna	PSEH-1109
1	GPS Mounting Plate	1350-1107

Optional Accessories (SOLD SEPARATELY)

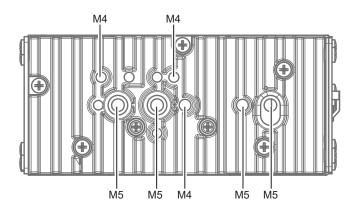
DESCRIPTION	PART NO		
IR Remote Control	SE-1500		
Flush Mount Display Housing	SE-HFDK		
iGO Navigation European RV Map (Micro SD Card)	SE-PE24EU		
LVDS Display Cable - 2 meters or 6.5 feet	SE-2502		

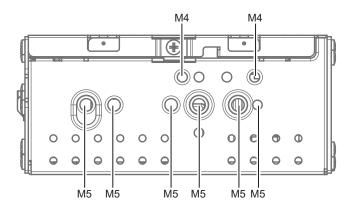
Hardware Guide



NOTE: Depending on the installation, not all hardware will be used.

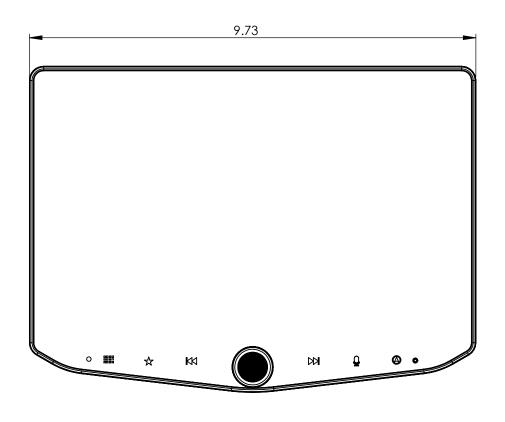
Only use designated screws as stated in this manual. Using the wrong screws will result in damage to internal components, which is not covered under warranty.

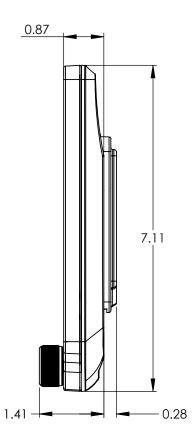




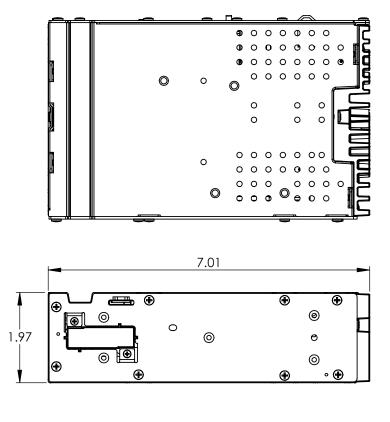
M4 holes are optional (M4 hardware is not included).

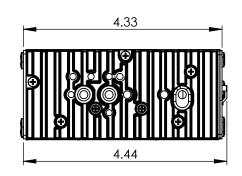
Dimensions (in)





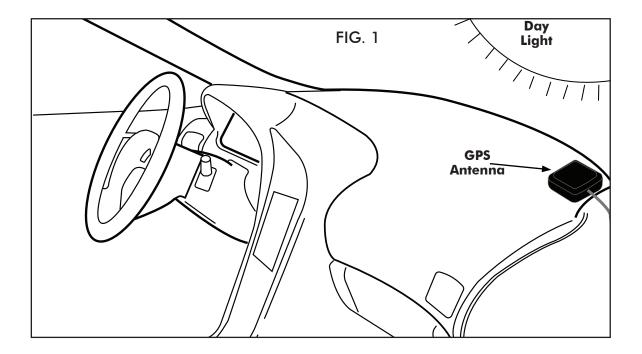
DIMENSIONS ARE IN INCHES





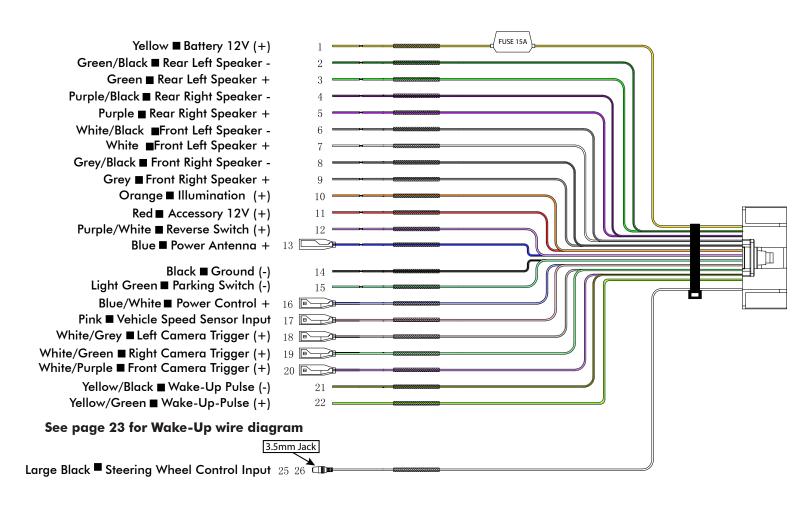
Installation Using a Dash Kit

- 1. Follow the Dash Disassembly instructions that are included with your specific dash kit.
- 2. Assemble the iX210E radio module onto the dash kit (see page 16).
- 3. Wire the iX210E 26 PIN Power/Speaker harness to your aftermarket wire harness (see page 8).
- 4. Connect the iX210E 26 PIN harness to the radio module.
- If the aftermarket wire harness has a factory back-up camera connection, connect the 16 PIN AV/Rear Camera harness to the iX210E.
- 6. Connect the aftermarket RCA to the Reverse Camera input RCA on the iX210E (see page 9).
- 7. Mount the GPS antenna from the iX210E somewhere inside the vehicle that has visibility to the sun. **Note: Under plastic panels is ok as long as it's close to the windshield and not under metal (FIG.1).**
- 8. Route the GPS antenna to come out where the aftermarket radio was located.
- 9. Connect the GPS antenna to the iX210E radio module.
- 10. Connect the vehicles antenna wire to the iX210E radio module. **Note: some vehicles will need an antenna** adapter (not included).
- 11. Connect the iX210E LVDS connector to the radio module (see page 17, FIG.J).
- 12. Plug in your aftermarket harness to the vehicle harness.
- 13. Temporarily connect the LVDS harness to the iX210E Display (see page 17, FIG.K).
- 14. Test the basic functions of the iX210E.
- 15. Once the functional testing has been completed, remove all the cables plugged into the iX210E radio module.
- 16. Follow the Dash Kit Assembly instructions (reference pages 16-19).

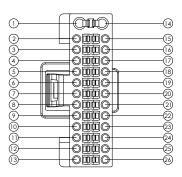


26 Pin Power / Speaker Harness

Connect radio power and speaker connections to a vehicle specific harness (sold separately) referencing diagram below.

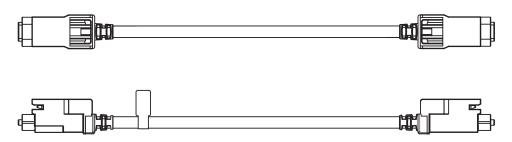


illumination wire must be connected for Day/Night and Auto Dimming to work.



LVDS Cable

LCD display cable

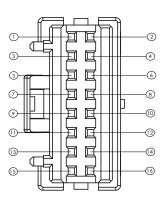


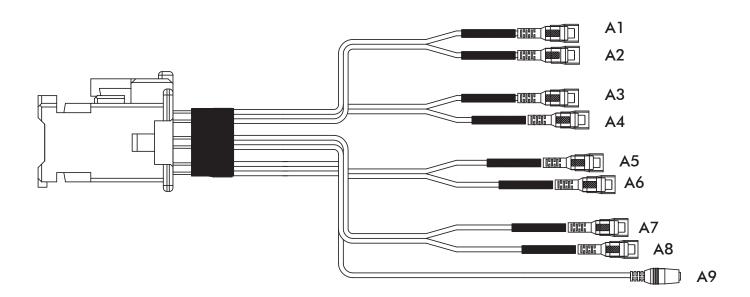
16 Pin AV / Rear Camera Harness

Audio/Video Inputs & Outputs / Rear Camera Video Input

NOTE: For Camera set-up, refer to the HORIZON10 User Guide

	1	1		Audia lagust Laft	
	A1	<u> </u>	White RCA	Audio Input Left	
		2		Audio Input GND	
Audio / Video Input		3	Red RCA	Audio Input Right	
	A2	2		Audio Input GND	
		5	Yellow RCA	Video Input	
	A3	4	10110 11 11011	Video Input GND	
Reverse Camera Input	A4	6	Yellow RCA	Camera Input	
Reverse Cumera Impor	A4	4		Camera Input GND	
	A5	7	Yellow RCA	Camera 2 Input	
Left Camera Input		8		Camera 2 Input GND	
	A6	9	Yellow RCA	Camera 3 Input	
Right Camera Input		10		Camera 3 Input GND	
o	A7	11	Yellow RCA	Camera 4 Input	
Front Camera Input		Α/	12	Tollow Rest	Camera 4 Input GND
	A8	13	White RCA	Reverse Audio Input	
Reverse Audio Input		14	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Reverse Audio Input GND	
	А9	15	Black 3.5mm	Eternal MIC	
Microphone Input		16	3.44.6.5	External MIC GND	





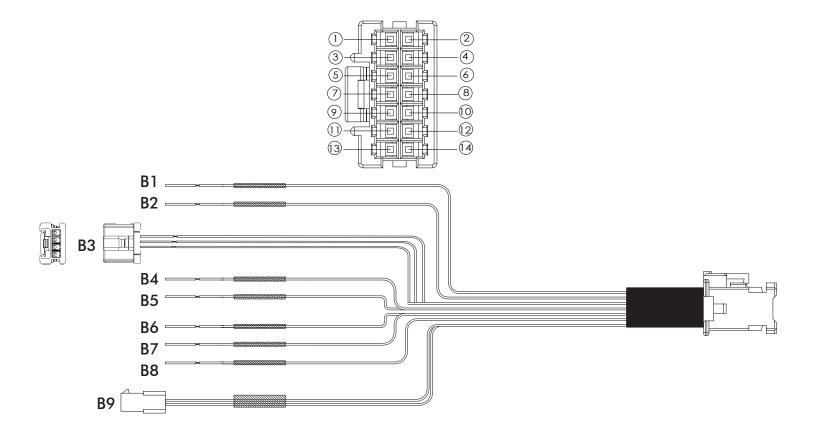
14 Pin Data and Accessory Control Wire Harness

Steering Wheel Control, Accessory Control, ENLIGHT10 Connection

NOTE: For Steering Wheel Control information, refer to the HORIZON10 User Guide For information on connecting the Accessory Control wires see page 22

Steering Wheel Control	В1	1	Brown	SWC Key 1	
Sieering wheel Control	B2	2	Brown/Black	SWC Key 2	
		3	Blue/White		
Future Expansion	В3	4	Blue/Black	Future Expansion	
		5	Red		
Steering Wheel Control	B4	6	Black	SWC GND	
	B5	7	White/Black	Switch 1 Output / negative trigger	
	В6	8	Grey/Black	Switch 2 Output / negative trigger	
Accessory Control	В7	9	Green/Black	Switch 3 Output / negative trigger	
	B8	10	Purple/Black	Switch 4 Output / negative trigger	
	B9 13	12	Orange/Black	UART TX	
ENLIGHT10 Control		13	Orange	UART RX	
		14	Black	UART GND	

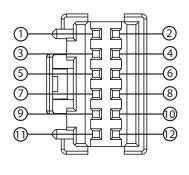
ENLIGHT10 Control can connect to any SPXD products with Bluetooth controller

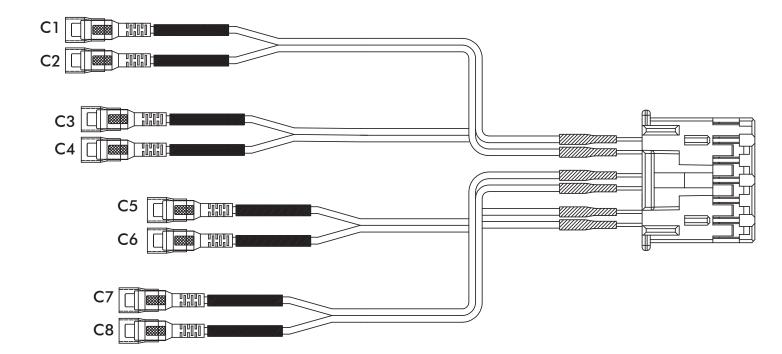


12 Pin PRE-Out Harness

Audio Outputs Front, Rear, and Subwoofer

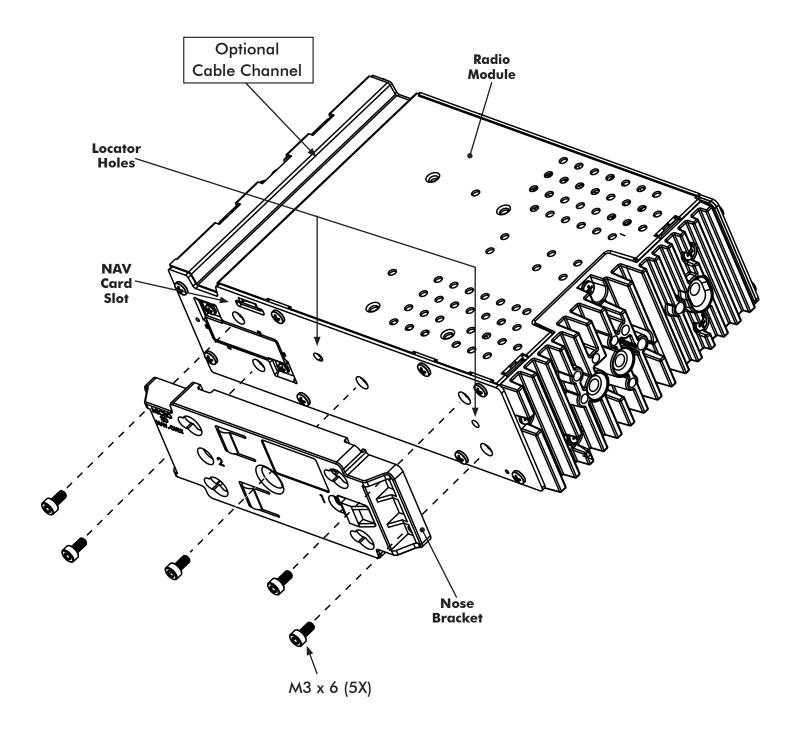
	C1	1	Red RCA	Right Subwoofer
Subwoofer Output		3		Subwoofer GND
	C2	2	White RCA	Left Subwoofer
		3		Subwoofer GND
	C3	4	White RCA	Left Rear
Rear Audio Output		6		Rear GND
	C4	5	Red RCA	Right Rear
		6		Rear GND
	C5	7	White RCA	Left Front 1
Front 1 Audio Output		9		Front 1 GND
	C6	8	Red RCA	Right Front 1
		9		Front 1 GND
	C7	10	Red RCA	Right Front 2
Front 2 Audio Output		12		Front 2 GND
	C8	11	White RCA	Left Front 2
		12		Front 2 GND





Pre-Assembly

Single or Double Din Applications: Align the Nose Bracket onto the Radio module where the NAV Card Slot lines up and the 2 locator pins on the back of the Nose Bracket line up with the 2 holes on the front of the radio module. Attach the Nose Bracket to the radio module using M3 X 6 screws at the locations indicated.

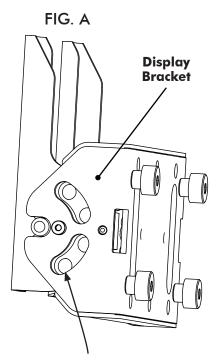


2

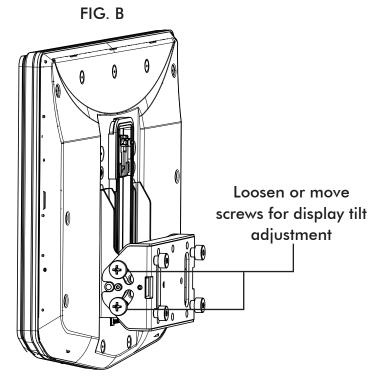
Display Bracket Assembly

Read Steps 2-4 to understand how the HORIZON10 assembles before starting the installation process.

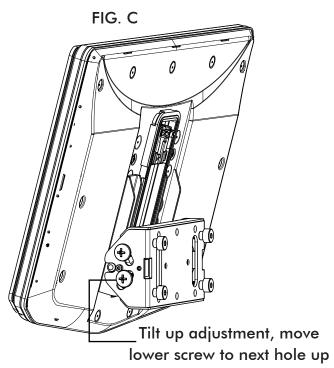
The display can be installed flat or with a slight angle for a better viewing angle. Loosen or remove the screws on the Display Bracket. (FIG. A). Loosen the screws, or move the screws for the best viewing angle (FIG. B / C).



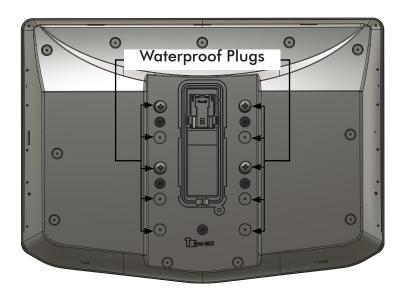
NOTE: Screws removed for illustration purposes



Default setting at 90°



25° Example



NOTE: For Display to be waterproof, you must install 6 waterproof plugs in the screw holes that will not be used.

Image above has 4 screws installed

3 Display Assembly

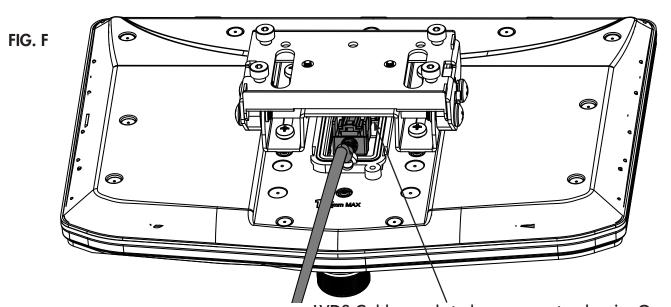
The Display Bracket can be mounted Right-side up (FIG.D) or Up-side down (FIG.E). Determine how the Display Bracket needs to be mounted for your application. **NOTE: Ensure the LVDS Display Cable can still plug-in after the bracket is in the desired location (FIG F).** You may need to rotate the Display Bracket for the LVDS cable to plug-in properly (FIG. D/E). Use four M4 x 10 supplied screws to hold the bracket in place. **NOTE: Do not tighten the screws until the last installation step.**

Right-side Up

Adjust Bracket
Up or Down

Display
Bracket
Up-side Down

FIG. E

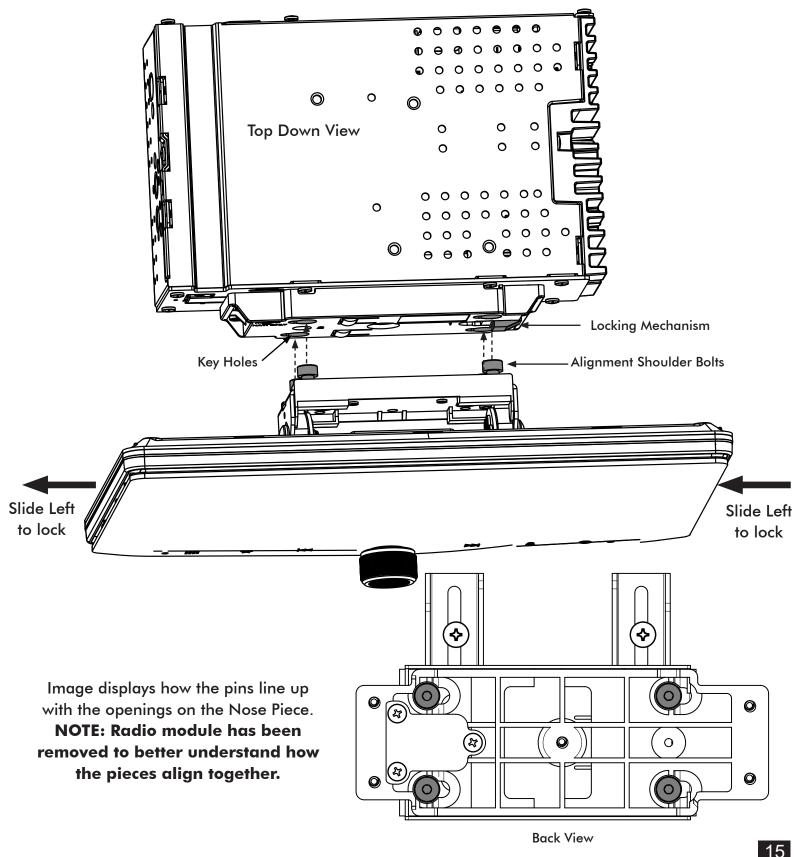




Display Assembly continued;

Align the 4 shoulder bolts on the Display Bracket attached to the LCD Panel with the 4 key holes on the Nose Bracket and push forward.

Once the 4 shoulder bolts are aligned properly, slide the LCD assembly to the left to lock the assembly to the Nose Piece.



5 Multiple Mounting Options

HORIZON10 can be configured for different mounting applications:

5A

Using a Single / Double DIN Dash Kit.

5B

Using Factory Radio Mounting Brackets.

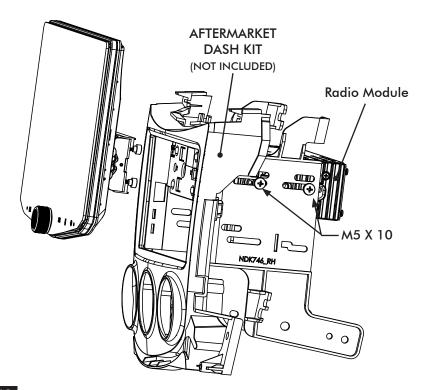
5A Single or Double DIN Dash Kit:

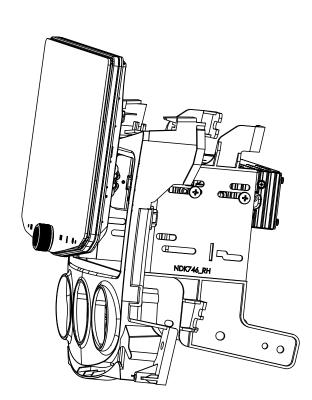
Radio chassis mounts to the kit brackets in the sub-dash, not to the kit main frame Display Adjustment & Mounting:

- 1. Slide the Radio Module into the dash kit opening.
- 2. Find the best location for the Radio Module to mount into the dash kit (FIG G).
- 3. Use the 4 supplied M5 x 10 screws to hold the Radio Module in place (FIG G).
- 4. Attach the Display assembly to the Radio Module (see page 15) and check fitment (FIG H).
- 5. Adjust the display as desired. Remove the display to adjust if necessary. (see page 13).
- Once you have the desired viewing angle, remove the display and then remove the Locking M3 X 5 screw from the Nose Bracket (FIG I).
- 7. Connect one "end" of the LVDS cable to the radio module (FIG J).
- 8. Connect the other end of the LVDS cable to the Display (FIG K).
- 9. Slide down the LVDS Connector Rear cover onto the back of the Display (FIG L).
- 10. Use the supplied M2.6 X 6.5 screw and mount the rear cover (FIG M).
- 11. Attach the Display to the Nose Bracket until the lock engages with a click sound (see page 15).

NOTE: If the rubber covers or LCD cover are not installed the LCD will not be waterproof. Warranty is void if water damage occurs.

FIG. G FIG. H

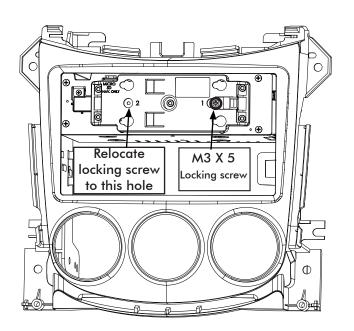






Using a Single or Double DIN Dash Kit continued;

FIG. I FIG. J



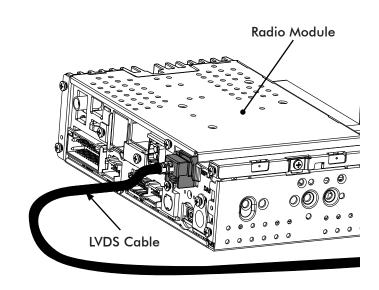


FIG. K

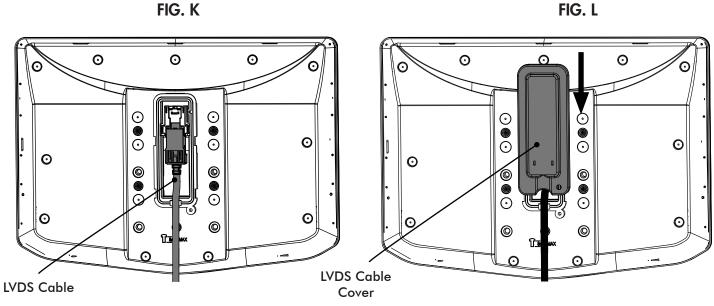
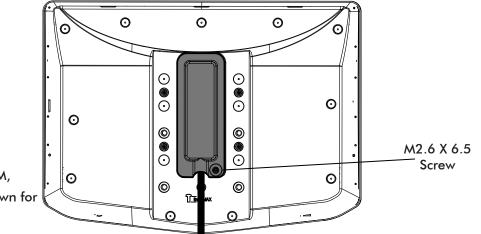


FIG. M

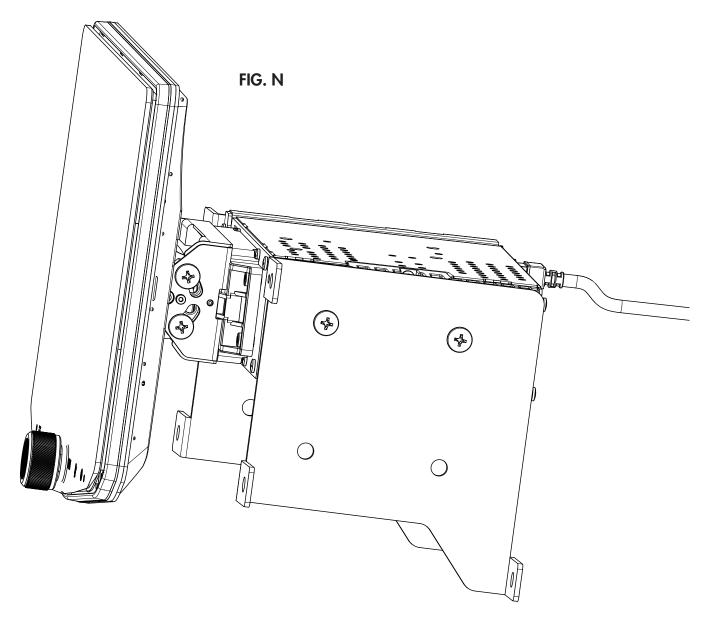


NOTE: Figures J, K, L & M, mounting brackets is not shown for presentation purpose

Display Adjustment & Mounting:

- 1. Use all four mounting screws and attach the radio module to the factory brackets (FIG N).
 - a. Included (4X) M5 X 10 screws to mount the (radio module).
 - b. Not included (4X) M4 X 10 screws to mount the (radio module).
- 2. Attach the LCD to the Radio Module (see page 15).
- 3. Remove the display panel and follow instructions to adjust the display angle (see page 13).
- 4. Once you have the desired viewing angle, remove the Locking M3 X 5 screw (see page 17, FIG. I).
- 5. Connect one "end" of the LVDS cable to the radio module (see page 17, FIG J).
- 6. Connect the other end of the LVDS to the Display panel (see page 17, FIG K).
- 7. Slide down the LVDS Connector Rear cover onto the back of the Display panel (see page 17, FIG L).
- 8. Use the supplied M2.6 X 6.5 screw and mount the rear cover (see page 17, FIG M).
- 9. Attach the LCD to the Nose Bracket until the lock engages with a click sound (see page 15).

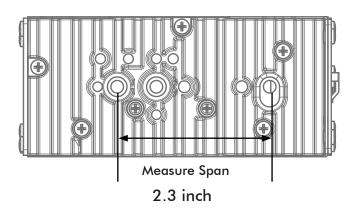
NOTE: If the rubber covers or LCD cover is not installed the LCD will not be waterproof. Warranty is void if water damage occurs.

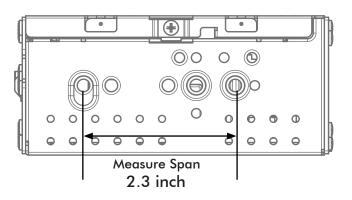


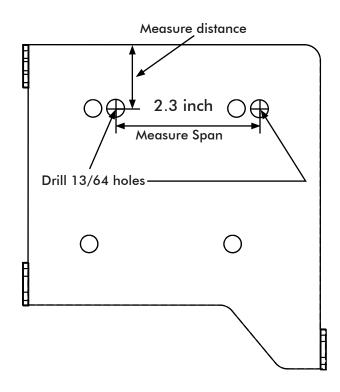


New holes in the factory brackets may need to be drilled for optimal screen position

- 1. Measure the hole span in the radio module mounting holes (2.3 inch).
- 2. Measure the height of where you want the radio module mounted.
- 3. Mark your holes on both sides of the brackets and drill two 13/64 holes on both sides of the brackets.
- 4. Mount the 2 brackets to the radio module using the four supplied M5 X 10 screws.
- 5. Install the assembly (from Steps 1-4).
- 6. Attach the display to the radio module (following Steps 4-11, page 16).



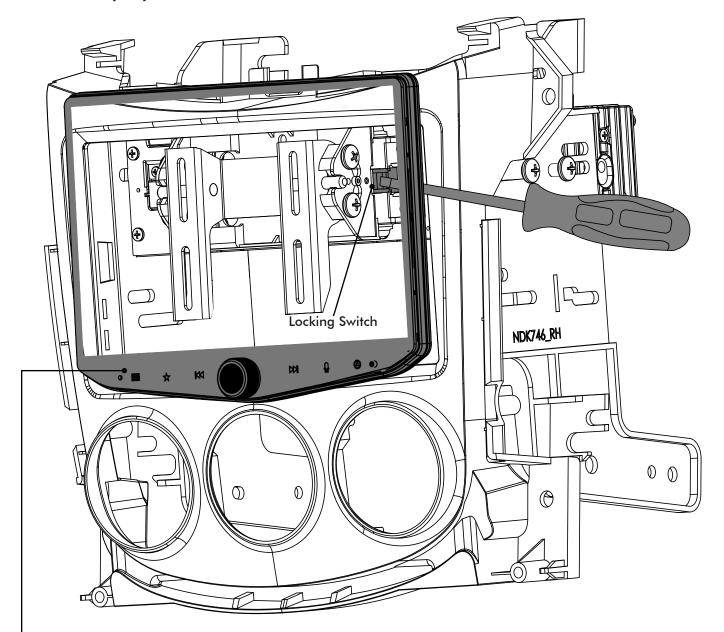






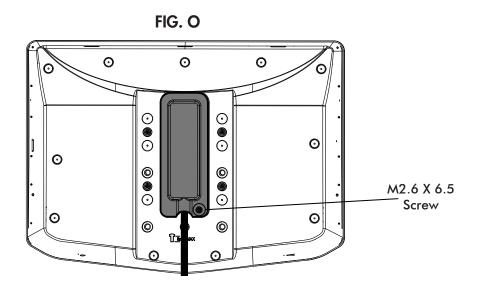
Removing the Display Panel:

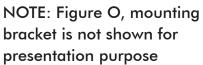
In the event the display panel needs to be removed, follow the instructions below to prevent damage to the vehicle trim, radio display and installation kit.

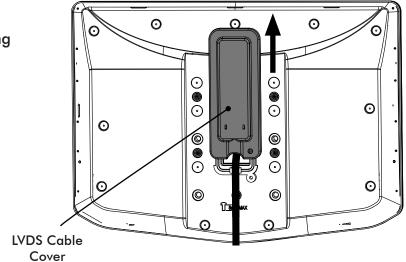


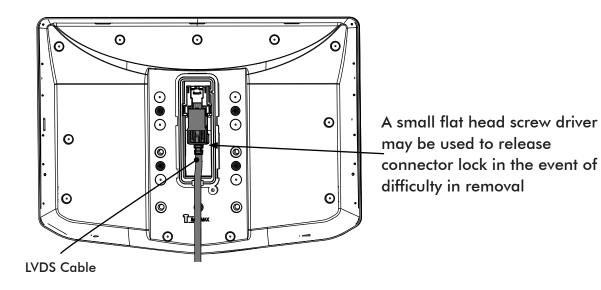
- 1. Using a long flat-head screw driver, press-in the release switch behind the Display, and then slide to the right.
- 2. Pull the Display off of the nose bracket.
- 3. Remove the M2.6 X 6.0 screw on the back cover of the Display (FIG.O).
- 4. Slide the back cover up and remove the cover (FIG.O).
- 5. Disconnect the LVDS display cable (FIG.O).

NOTE: The Display has been made invisible to show how to locate the locking switch











Accessory Control Wiring

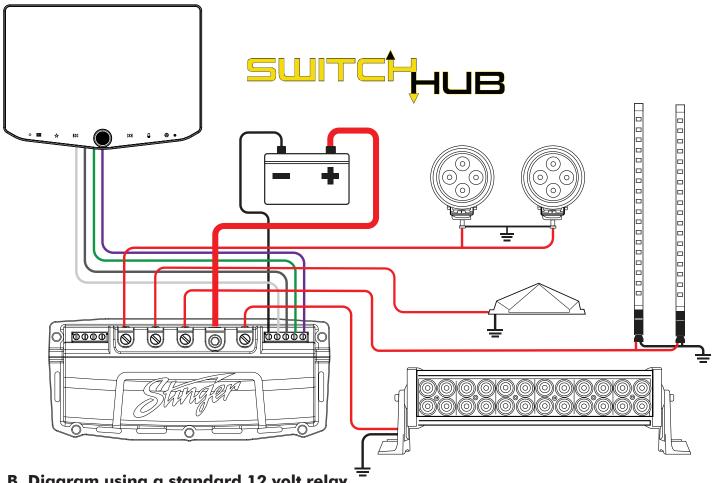
The HORIZON10 has the ability to control 4 different devices from the Accessory Control app on the radio.



WARNING! The Accessory outputs MUST be connected using Relays, or SWITCHHUB. If you do not follow these instructions you will **DAMAGE** the HORIZON10 radio module. THIS WILL NOT BE COVERED UNDER WARRANTY!!!

A. Diagram using a SPXHS440 (SWITCHHUB)

- 1. Connect 12V to the port on the SWITCHHUB labled Battery.
- 2. Connect Ground on the SWITCHHUB labled GND.
- 3. The larger terminals on the SWITCHHUB will connect to your Accessory devices, (Rock Lights, Whip Lights, etc).
- 4. Connect the Accessory switch wires from the HORIZON10 to the connections labled 1, 2, 3, 4. NOTE: Connect the NEGATIVE terminals 1, 2, 3, and 4 not the positive terminals.



B. Diagram using a standard 12 volt relay

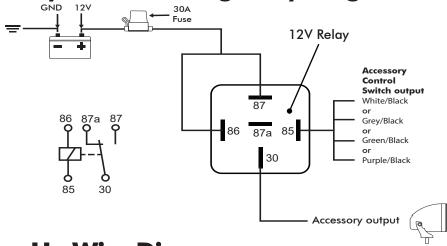
1. Connect PIN 85 to any of the Accessory Control wires on the HORIZON10 (White/Black, Grey/Black, Green/Black, Purple/Black).

NOTE: If connecting multiple devices you will need one relay per Accessory Control wire.

- 2. Connect PIN 30 to the device you want to power on, example (Off-Road lights).
- 3. Connect PINS 87 and 86 to 12 volt power source.

NOTE: Must add a fuse to the 12 volt wire before the positive battery terminal, see diagram on next page.

Accessory Control Wiring Relay Diagram



Wake-Up Wire Diagram (Optional not needed for normal operation)

The HORIZON10 has the ability to start powering up, before the vehicle has been started for a faster boot-up. Use one of the Wake-Up Pulse wires + = Positive trigger, - = Negative trigger.

Using Wake-Up Pulse +

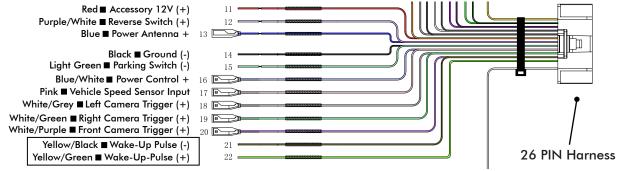
- 1. Locate the vehicles positive unlock wire, this will be the wire that sends 12 volts to the door lock to unlock the vehicle.
- 2. Connect the Yellow/Green wire (Wake-up pulse +) from the 26 Pin Power Harness to this wire. When you unlock the vehicle the radio will start its boot up process.

Using Wake-Up Pulse -

- 1. Locate the vehicles negative unlock wire, this will be the wire that sends a negative to the door lock to unlock the vehicle.
- 2. Connect the Yellow/Black wire (Wake-up pulse -) from the 26 Pin Power Harness to this wire. When you unlock the vehicle the radio will start its boot up process. When you unlock the vehicle the radio will start its boot up process.

NOTE: During the boot up process from the Wake-Up wire, the radio display will not turn on until the vehicle accessory has been turned on.

The default Wake-up time is set to 5 min, this can be changed in the installer settings menu >SETTINGS>INSTALLER>PIN CODE = 0052>WAKE COUNTDOWN, OFF, 3 MIN, 5 MIN, 7, MIN.



NOTE: If your vehicle does not have a negative or positive door unlock wire locate the vehicles wire that turns the dome light on when the vehicle is unlocked.

Troubleshooting

General

Black Screen with Audio

Touch the screen anywhere as it may have been turned off.
Ensure the display cable on the back of the display is fully locked into place and also properly connected at the back of the radio module.

Bluetooth

Device will not Pair

Ensure Bluetooth is turned ON in your device settings. Delete all unused devices. Delete any "Stinger" device. Restart/Reboot device and try pairing again.

Music Volume is low

- Turn up volume on device
- Turn up volume on head unit
- Turn up Main Bluetooth Music Gain (AUDIO SETTINGS > ADVANCED > SOURCE GAIN > BLUETOOTH MUSIC.

Phone Volume is low

- Turn up volume on device
- Turn up volume on head unit
- Turn up Phone Volume Gain (AUDIO SETTINGS> ADVANCED > PHONE VOLUME.
- Turn up Mic Gain (MENU > PHONE > SETTINGS)

No Microphone / Voice Control

 Set Microphone location (SETTINGS > MICROPHONE).

Apple CarPlay

Apple CarPlay will not start/launch

- Ensure an Apple certified cable is being used
- Ensure cable is plugged into USB C port.

Android Auto

Android Auto

- Ensure a USB certified cable is being used
- Make sure Android Auto app is downloaded and installed on your device.
- Ensure cable is plugged into USB C port.

Video/Cameras

Rear Camera not displaying in reverse

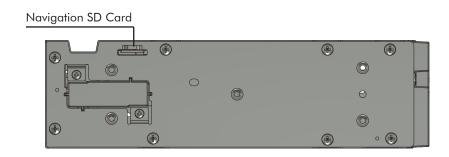
- Make sure rear camera trigger is
 ON (CAMERAS > CAMERA SETUP)
- If display is showing NO SIGNAL in reverse, ensure camera RCA is plugged into correct RCA input (CAMERA IN). Confirm camera has power and ground.
- Confirm camera trigger is receiving positve 12V.

Note: 4 Camera Video Inputs Support: NTSC, PAL, AHD 25MHZ & AHD 30MHZ Video format. Mirror camera image.

Upgrades/Options

Navigation Ready

Add optional iGO Navigation with part number SE-P24EU. Insert the purchased Micro SD card into the front of the radio module. HORIZON10 and iGO are optimised for ease of use and driving safety.



Connects2

Aftermarket car audio solutions including full installation kits, wiring harnesses and a whole lot more. **Connects2.com**



American International

Dash kits, wire harnesses and antenna adapters. **PAC-Audio.com**



PAC Audio

Retain the factory vehicle features with RadioPRO Radio Replacement Modules, Steering Wheel Interfaces, Factory Camera and USB retention. **PAC-Audio.com**



AudioControl

Take advantage of the 6 channel / 4v outputs or variable TOSLINK by adding an amp, DSP processor and speakers. **AudioControl.com**



Phoenix Gold

Award winning audio. Subwoofers, amplifiers DSP processors and speakers. **PhoenixGold.com**





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