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AUTOMOTIVE INTEGRATION SOLUTIONS

BMWAPMOD1

AUTOPLAY FOR BMW

WITH THE 6.5"/8" CCC SYSTEM

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APPLICATIONS

AUTOPLAY Integration with Rear-View Camera Input for select BMW's with the CCC Systems (6.5" or 8.8" Monitor) and 10-Pin LVDS Connector.
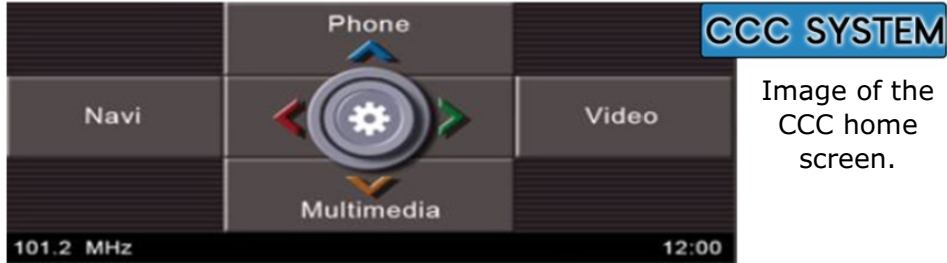

Image of the CCC home screen.

FEATURES

- *AUTOPLAY* Integration system allows connection of Android and CARPLAY to the infotainment system with full control using the factory IDrive.

- Rear camera input with dynamic lines

- Picture-in-picture mode combining after-market rear-view picture with factory parking sensor graphics.

- Adds Bluetooth to models that are not factory equipped.

IMPORTANT!!

- Android Phones must have a firmware version of 8 and above.

- For 2007 & up vehicles without a factory AUX input, add on the *BMWAUX1* for audio.

- For 2007 & below vehicles without a factory AUX input, add on the *BMWAUX2* for audio.

NOTES

NOTES:

WARNING

1. **DO NOT connect the Quadlock connector to factory radio CD headunit UNLESS the 10 Pin LVDS Cable has been properly and completely connected to factory display and all the other 10 Pin LVDS cable connections have been made according to the wiring diagram or the factory display will be damaged.**

2. **DO NOT connect the 10 Pin LVDS Cable when the radio is powering ON or the factory display will be damaged.**

3. **When the factory radio CD is powered ON, DO NOT disconnect any of the 10 pin LVDS connections or the factory display will be damaged.**

Interface LVDS connection side

Factory Screen

AUX

Factory Radio

Interface power connection side

Auto Play interface

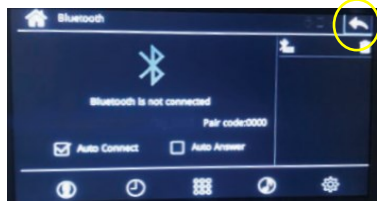## Wiring Diagram

LVDS CONNECTIONS

FACTORY LVDS

1. Unplug the factory 10pin LVDS cable from the back of the factory screen.

2. Plug the factory LVDS cable into the interface.

3. Connect the provided LVDS cable into the factory screen's LVDS socket on the factory screen and the other end into the interface.
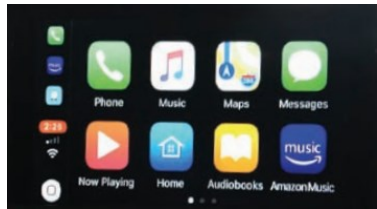
Main Harness Wiring Diagram

1. Disconnect the main Quadlock from the factory radio.

2. If present, remove the fiber optic cable from the factory Quad-lock connector and insert it into the same location of the Main T-harness. (fig 2)

3. Connect the main T-harness into the factory harness of the car then connect it to the radio. (fig 1)

4. Connect the 8 pin molex plug from the T-harness to the CAN harness of the interface.

NOTES

Autoplay Setup

Using the iDrive, navigate the cursor to the BACK icon.

Carplay home screen once the device is connected.
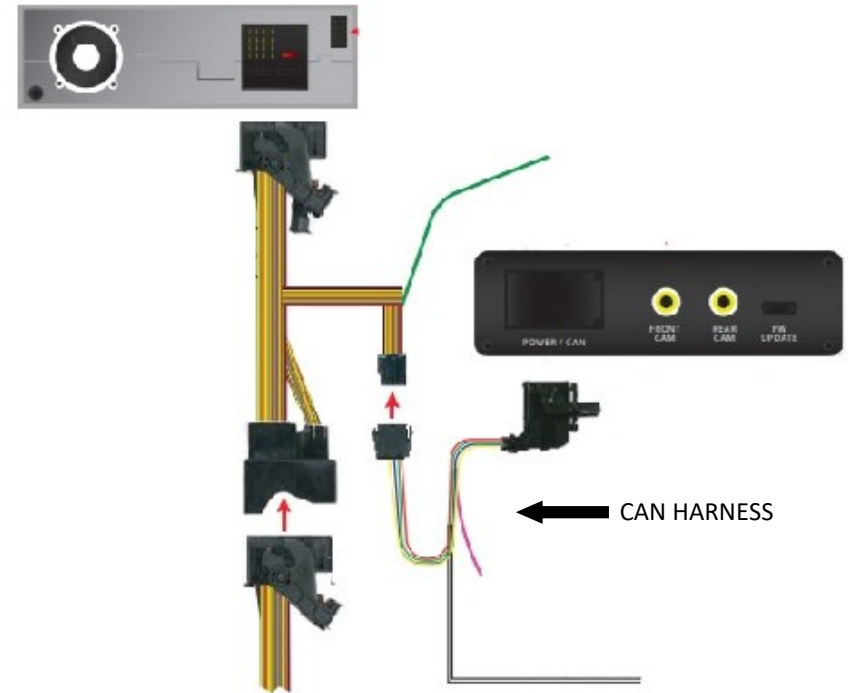
Display settings for Autoplay

Adjust brightness, contrast, and saturation for a more defined image. To get to the Display menu, scroll to the SETTING icon in the Autoplay HOME menu, and select it.
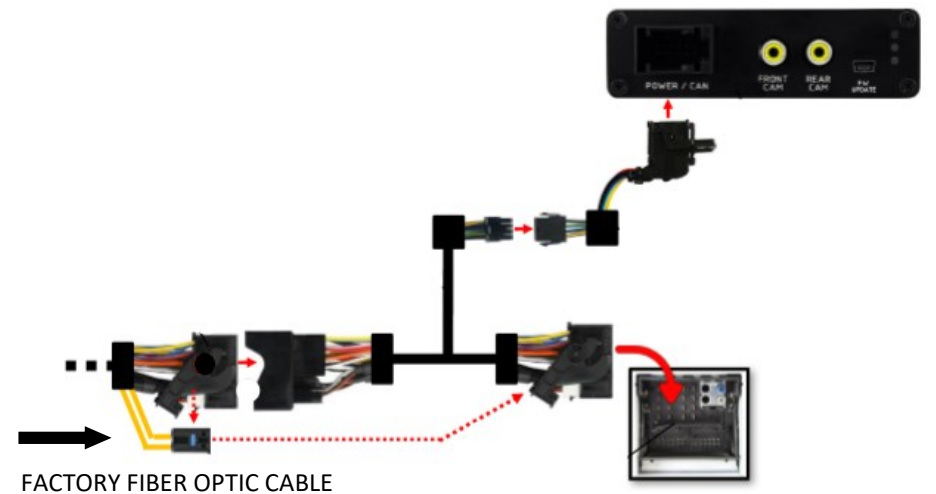

Once in the SETTING menu, scroll to the Display submenu and adjust the brightness, contrast, and saturation as needed.
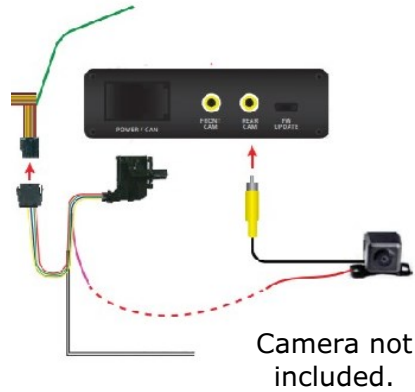
Wiring Diagram (fig 1)

CAN HARNESS

Wiring Diagram (fig 2)

FACTORY FIBER OPTIC CABLE

Rear Camera Wiring Diagram

1. When installing a rear camera, connect the camera's 12v power wire to the **PINK** wire of the CAN harness. Connect the ground wire of the camera to chassis ground.

2. Plug the RCA from the camera to the REAR CAMERA input of the main interface.

3. Once installation is complete **SEE OSD MENU SETTINGS**.

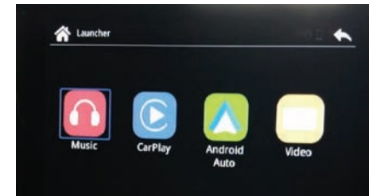Camera not included.

Auto Play interface Wiring Diagram

1. Connect the **BLACK** wire of the Auto Play harness to the **BLACK** wire of the main Quadlock T-harness.

2. Connect the **YELLOW** wire of the Auto Play harness to the **RED** wire of the main Quadlock T-harness

3. Connect the **RED** wire of the Auto Play harness to the **GREEN** wire of the main Quadlock T-harness labeled POWER 2.

4. Plug the **UDART** connector from the CAN power harness to the Auto Play interface.

5. Run the mic to the desired location and plug it into the **MIC IN-PUT** of the Auto Play harness.

6. Plug the RCA from the Auto Play harness into the **FRONT CAM-ERA** input of the main interface.

7. Run the USB extension to the desired location.

8. Once installation is complete **SEE OSD MENU SETTINGS**.
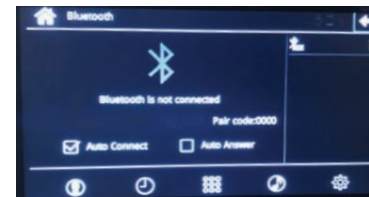
Autoplay Setup

IMPORTANT

If your smartphone is set to automatically connect to your factory bluetooth, make sure you void the connection. One way is to forget the device (your vehicle) on your phone. This will avoid Autoplay connection interferences. If you are using the wireless feature and notice degraded audio or video quality, switch to the wired alternative, for it is a higher quality connection than bluetooth.

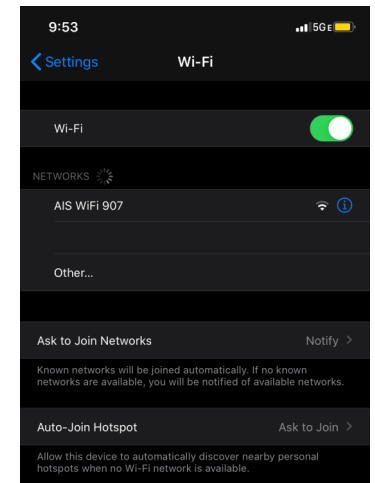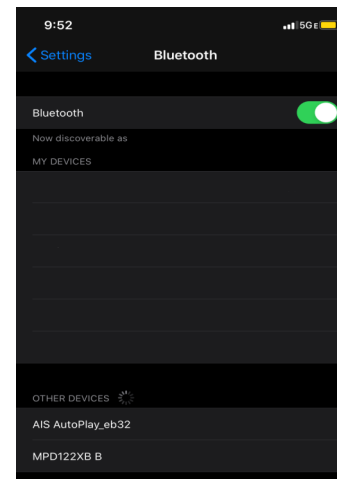### AUTOPLAY HOME SCREEN

The music and video icons are for media that is stored on a USB flash drive.

Using the iDrive, navigate the cursor to the Bluetooth icon (scrolling right). Image above will appears on the screen the BT device name and pairing code (0000).
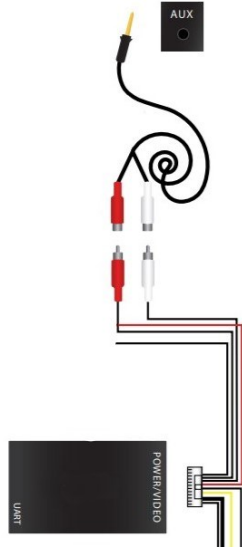
For Apple devices go to Settings. Open Bluetooth and connect to AIS Autoplay XXXX.

Once connected, it will connect automatically to Wifi.

OSD MENU Setup

Power output settings

Powerout 1 - (pink wire) Set to CAM. This is used when adding rear camera.

Powerout 2 - (green wire) Set to CAN. This is used to power Autoplay.

OSD Menu	Menu Item	Setting	Description
Option	Power Out 1 (PINK)	CAN	+12V when the interface is on (red LED on)
		ACC	+12V when ignition is on
		Cam	+12V when camera input is activated (manually or automatically)
	Power Out 2	CAN	Smart-Play power on.
		OFF	Trigger output deactivated

Video-in-Motion

Note: When Video-in-Motion is permanently active, the performance of the navigation will not be effected.

OSD-Menu	Menu Item	Setting	Description
MISC	VIM	ON	Video-In-Motion activated
		OFF	Video-In-Motion deactivated

Rear Camera Activagion

Make sure the +12v wire for the camera is connected to the **PINK** wire coming off the CAN interface harness.

In the OSD MEMU make sure POWEROUT1 is set to CAM

Wiring Diagram (fig 3)

Main Quadlock T-harness

Udart connector

AUTO PLAY INTERFACE

AUDIO OUTPUT

AUX INPUT

For sound, the factory AUX input is used. Connect the RCA to 3.5mm to the audio output of the Auto Play interface and plug the opposite end into the factory AUX. If the vehicle does not have the factory AUX, you will need one of the following;

- For 2007 & up vehicles without a factory AUX input, add on the **BMWAUX1** for audio.

- For 2007 & below vehicles without a factory AUX input, add on the **BMWAUX2** for audio.

DIP SWITCH SETTINGS

Vehicle / Navigation	Dip 1	Dip 2	Dip 3
M-ASK	OFF	No function	No function
CCC	ON	No function	No function

Setting the DIP switches of the Interface Box.

DIPs 1 and 2 on the back of the interface-box is used to set the monitor size.

DIP 3 must be set to OFF.

After each change of the DIP switch setting change you have to reset power of the interface box by unplugging the CAN harness!

OSD MENU Setup

Use the following buttons on the iDrive to navigate the OSD Menu:

Use the iDrive to navigate Autoplay and make selections.

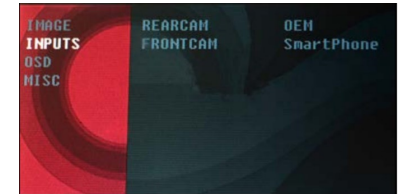Shift the iDrive to the right for 10 seconds to enter OSD Menu. Use iDrive to navigate menu and make selections.

Hold the menu button to change the video sources

OSD Autoplay Setup

To ensure that Autoplay works, make sure these input settings have been set in the OSD MEMU:

FRONTCAM (FVC) = SmartPhone

To retain the factory rear camera:
REARCAM (RVC) = OEM

When adding an aftermarket rear camera: **REARCAM (RVC)** = ON

Smartphone Connections

Apple devices - WIRELESS

Android - Must plug into the USB port provided.

USB - Music & videos can be played from a USB flash drive.

Accessing Autoplay

1. Switch the audio source to AUX. This will allow the audio from the Autoplay interface to be heard from the factory audio system.

2. Press and hold the "MENU" button on the iDrive for 5 seconds to activate the Autoplay screen mode. To exit Autoplay menu, press and hold again for 5 seconds.

3. After activating Autoplay, a short press of the MENU button again will switch to the rear camera.