

# Clarion FX688A Quick Start Guide

## WARNING

- For safety reasons, do not perform any operations while driving. Doing so can take your mind off the road and create the risk of a traffic accident.
- Always stop your vehicle in a safe place before operating the unit.
- Please keep the volume at a level at which external sounds can be heard while driving.

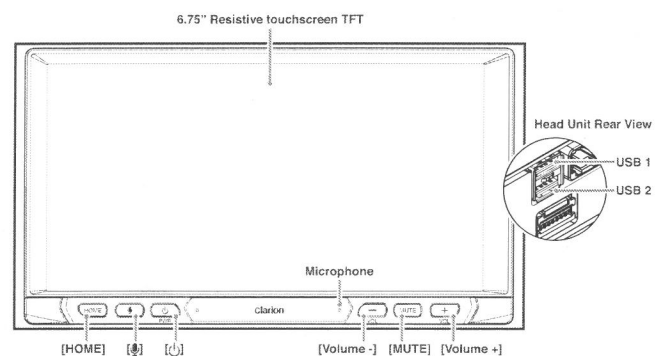
## Operation Panel / Generalities

For a longer service life, be sure to read the following cautions.

- Do not allow any liquids on the unit from drinks, umbrellas, etc.
- Do not disassemble or modify the unit in any way.
- Subjecting the operation panel to shocks may result in breakage, deformation, or other damage.
- Do not allow any hot objects or hot ash to come in contact with the display at any time.
- If a problem should occur, have the set inspected at your store of purchase.
- In extremely cold weather, the display movement may slow down and the display may darken, but this is not a malfunction. The display will work normally when the temperature increases.
- Small black and shiny spots inside the operation panel are normal for LCD products.
- The touchkeys on the display operate when slightly touched. Do not press the touchkey screen with much force.
- Do not push the case surrounding the touchkey panel with much force. This may cause malfunctioning of the touchkeys.

**Note:** This document is intended as a general operation guide. For further details on the complete operation of the unit, please refer to the complete owner's manual.

## GENERAL GUIDE



## CONTROLS

### Button Layout

- [HOME]**
  - Press the button when the unit is turned on to display Home Screen
- [ ]**
  - Press the button to trigger Voice command / Voice dial when Bluetooth / Apple CarPlay / Android Auto is connected
- [ ]**
  - Press the button when the unit is turned off to turn on power.
  - Press and hold the button to turn off the power.
  - Press the button when the unit is turned on to toggle clock display on/off.
- Microphone**
  - For handsfree.
- [VOLUME -]**
  - Decrease Volume
  - Long press to trigger continuous volume decrease
- [MUTE]**
  - Mute / unmute audio
- [VOLUME +]**
  - Increase Volume
  - Long press to trigger continuous volume increase
- Touch Screen**
  - Resistive touch screen display
- USB ports (rear)\***
  - USB mass storage device/MTP/iPod/iPhone/Android device insertion (USB 1)
  - USB mass storage device insertion (USB 2).
  - \* Additional extension cable required
- AUX inputs (rear)**
  - 3.5 mm Auxiliary jack insertion.

## POWER BUTTON OPERATIONS

By default, system will automatically turn on when the car ignition is turned on.

- To turn off the power**  
When the unit is powered on, press and hold the [ ] button for more than 1 second.
- To turn on the power**  
When the unit is powered off, press the [ ] button.



## CAUTION

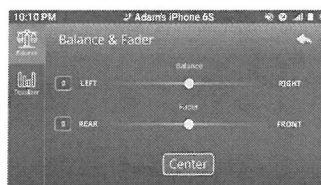
- Using this unit without running the engine may drain the battery, causing the engine to become difficult to start and reducing the service life of the battery.

## ADJUSTING THE AUDIO

- Press the [ ] button in the Home Screen to enter Settings.
- In Settings, press the [ ] button to perform audio adjustment.

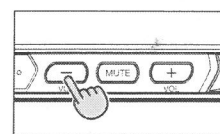
### Category on screen

	Adjusting the balance/fader
	Adjusting the equalizer



## ADJUSTING THE VOLUME

- Press the [VOLUME +] button to increase sound volume. Long press to trigger continuous volume increase.
- Press the [VOLUME -] button to decrease sound volume. Long press to trigger continuous volume decrease.



## TUNING THE RADIO STATION

- Press the [ ] button on the Home Screen.
- Press the desired button to perform specific operations.

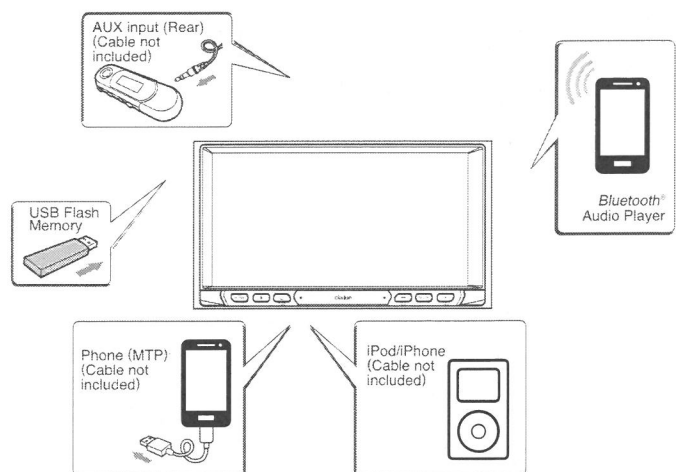
### Control on screen

	View preset and favourite frequencies list
	Select FM band
	Select AM band
	Select RDS adjustment
	Auto seek up/down
	Manual seek up/down
	Trigger AutoStore
	Toggle between DX/Local seek mode

## PLAYING AUDIO FROM EXTERNAL MEDIA

### For USB, MTP, iPod, Bluetooth, Aux

- Insert/ Connect the desired external media.
- Select Audio Player
- Select the desired source.



### Control on screen

	Previous Track / Fast Backward		Next track / Fast Forward
	Toggle Play/Pause		Repeat All
	Random/Shuffle		Repeat Track

\*AUX control not available

## PLAY VIDEO/PICTURE FROM EXTERNAL MEDIA

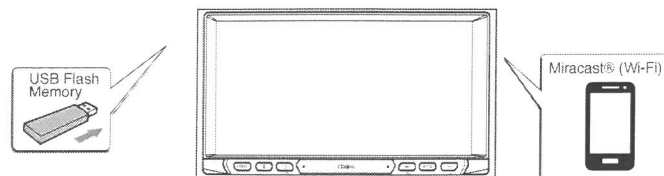
### For USB 1, USB 2, Miracast®

- Insert/connect the desired external media.
- Select Video player
- Select the desired source.

### Control on screen

	Previous Track / Fast Backward
	Next track / Fast Forward
	Toggle Play/Pause
	Adjust playback speed*
	Adjust video brightness*

\*Not applicable for Miracast



## BLUETOOTH HANDSFREE

Before any handsfree function can be used, the system must be paired with the phone for the first time.

### Pairing with phone

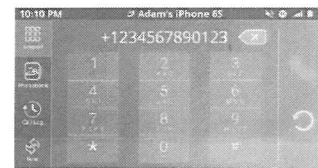
- Go to Settings → Bluetooth Settings → Handsfree → Add Device
- System will scan for list of available devices. Select the device name of your phone, or use your phone to search for "Clarion".
- A random 6 digit passkey will be displayed. Compare and confirm the passkey on both the phone and unit are matched.



Upon successful pairing, system will automatically connect with the phone.

### Outgoing call

Outgoing call can be performed via keypad, call history or contacts from phone. System will be able to download the entire phonebook from the mobile phone if it is supported.

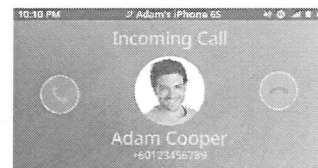


### Category on screen

	Keypad		Call Log
	Phonebook		Sync

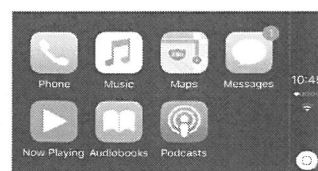
## INCOMING CALL

- Press the [ ] button to accept call while press the [ ] button to reject the call.



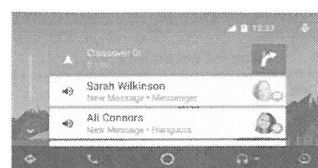
## Apple CarPlay™

- Insert/connect an iPhone to the USB 1 port of the unit.
- Press the [ ] on the Home Screen to launch Apple CarPlay projection.



## Android Auto™

- Insert/connect an Android phone to the USB 1 port of the unit.
- Press the [ ] on the Home Screen to launch Android Auto projection.



## APPLICATIONS

- Insert/connect an Android phone or iPhone to the USB 1 port of the unit.
- Press the [ ] button on the Home Screen.
- Select an application from the phone and launch it on the unit.

**Notes:** Please scan the QR code for supported applications.

## SPECIFICATIONS

### FM Tuner

Frequency Range	: 87.50 – 108.00 MHz
Usable Sensitivity	: <18dBµV
Stereo Separation (1 kHz)	: >18dB
Frequency Response (±3dB)	: 100Hz: 0 ±4dB, 7kHz: -10 ± 8dB

### AM Tuner

Frequency Range	: 531 ~ 1629 kHz
Usable Sensitivity	: <34dBµV

### USB

Specification	: USB 2.0
File system	: FAT16, FAT32
Playable audio format	: MP3 (.mp3), WMA (.wma), AAC (.m4a), WAV (.wav)
Playable video format	: MPEG (.mpg, .mpeg), MPEG-4 (.mp4, .mkv, .avi), WMV7/8/9 (.wmv)
Charging Power (USB 1)	: 1.5A (Android Phone)
(USB 1)	: 1A (Depends on iPod/iPhone)
(USB 2)	: 1A

### iPod/ iPhone

Supported iPod/ iPhone:  
iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6S Plus, iPhone 6S, iPhone 6 Plus, iPhone 6, iPhone 5S, iPhone 5C, iPhone 5, iPod Touch 6th

### Bluetooth

Version	: Bluetooth® 4.1
Frequency Range	: 2.40 – 2.4835 GHz, ISM band
RF Power	: Class 2 (2.5 mW)
Profiles	: HFP 1.6, A2DP 1.3, AVRCP 1.5, PBAP 1.2
Operating Temperature	: -20°C ~ +70°C
Telephone Operation	: Noise reduction, echo cancellation, full duplex telephony, wideband speech

### Screen

Screen size	: 6.75 inch
Resolution	: 1280 x 720 (HD)
Touch type	: TFT Active Matrix Display

### General

Power Source Voltage	: 10.8V ~ 15.6 V
Current Consumption	: Less than 15A
Weight of the Main Unit	: 1.2kg
Dimensions of the Main Unit	: 178 mm Width X 100 mm Height X 133.7 mm Depth
Maximum Power Output	: 45W x 4 ch
Operating Temperature	: -20°C ~ +70°C

### About the registered marks, etc.

- Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple products identified in the badge, and has been certified by the developer to meet Apple performance standards. Use of the Apple CarPlay logo means that a vehicle user interface meets Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with an Apple product may affect wireless performance. iPhone, iPod, Siri, and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries. Apple CarPlay is a trademark of Apple Inc.
- Android and Android Auto is a trademark of Google LLC.
- The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks is under license. Other trademarks and trade names are those of their respective owners.
- The terms Wi-Fi® and Miracast® are registered trademarks of the Wi-Fi Alliance.
- This product contains open source software under various licenses including GPL version 2 and LGPL version 2.1. For full details, please visit <https://opensource.clarion.com/my>. Full details for all open source licensed programs included in this product are available within the product by opening: Settings -> About -> Legal (Trademark, Licenses).



# INSTALLATION AND WIRE CONNECTION

## Safety Precautions

The Installation and Wire Connection Manual is intended for authorised Clarion dealers. Due to the complexity of the vehicle's wiring and components, it is recommended an authorised Clarion dealer perform the Installation.

For your safety, the Owner's Manual should be read thoroughly to familiarize yourself with controls and functionality.

### Symbol Identification

This manual uses symbols and icons to indicate safety precautions and concerns during the installation procedure. Be sure to carefully read and understand each precaution prior to beginning the installation.

#### WARNING

This symbol is intended to alert the user to the presence of important operating instructions. Failure to heed the instructions may result in severe injury or death.

#### CAUTION

This symbol is intended to alert the user to the presence of important operating instructions. Failure to heed the instructions can result in injury or material damage.

### Installation precautions

#### WARNING

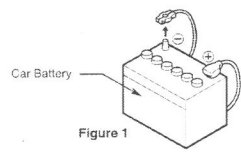
- When installing the unit to a vehicle with an airbag system, never install it in a place where it may affect the operation of the airbag.
- Do not install this unit in the following locations:
  - A location interfering with the driver's visual range or operation.
  - A location where the gear shift or brake pedal are hindered.
  - A location where passengers are at risk.
  - An unstable location, or where the system may fall.

#### CAUTION

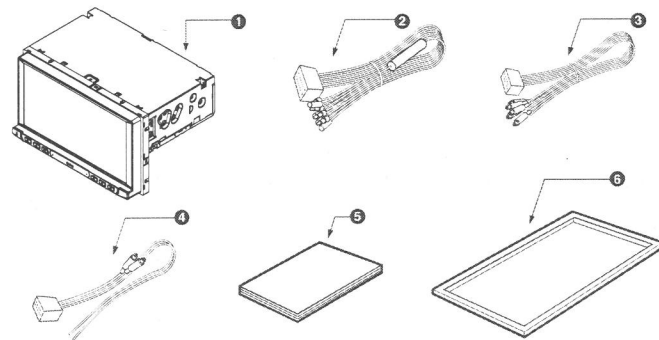
- Do not install the system in the locations described below. This may cause a fire, accident or electrical shock:
  - A location exposed to rain or dust.
  - A location interfering with the driver's visual range or operation of the vehicle.
  - An unstable location, or where the system may fall.
- Do not install this unit in a place exposed to direct sunlight, heat or place where the vent holes or heat radiation holes are covered.
- When you install the antenna, mount it in a place where the elements of the antenna do not protrude beyond the edge of the front, back, left and right of the vehicle.
- If it comes in contact with pedestrians, it may cause an accident.

## Before Starting

- This unit is exclusively for use in cars with a negative ground, 12 V power supply.
- Read these instructions carefully.
- Be sure to disconnect the battery "⊖" terminal before starting. This is to prevent short circuits during installation. Please check with car owners manual before dismantling the battery terminal. (Figure 1)
- Be particularly careful where you route the wires. Keep them well away from the engine, and exhaust pipe, etc. Heat may damage the wires.

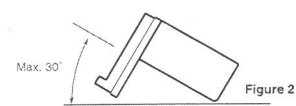


## Package Contents

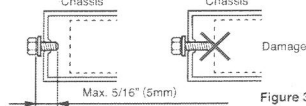


- Source unit
- Extension Lead (SMK)
- Extension Lead (16 PIN)
- Extension Lead (12 PIN)
- Quick start guide
- Finisher

## Cautions on Installation



- Prepare all articles necessary for installing the source unit before starting.
- Install the unit within 30° of the horizontal plane. (Figure 2)

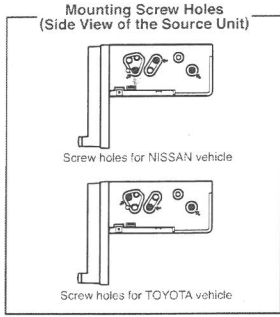


- If you have to do any work on the car body, such as drilling holes, consult your car dealer beforehand.
- Use the enclosed screws for installation. Using other screws can cause damage. (Figure 3)

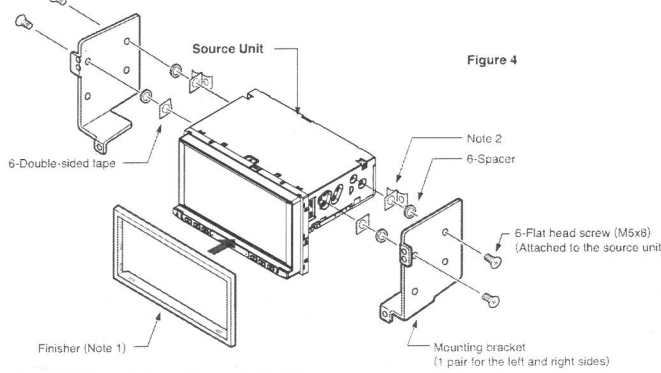
## Installing the Source Unit

This unit is designed for fixed installation in the dashboard.

- When installing the source unit in NISSAN vehicles, use the parts attached to the unit and follow the instructions in Figure 4.
- When installing the source unit in TOYOTA vehicles (Figure 5), use the parts attached to the vehicle and follow the instructions in Figure 4.
- Wire as shown in "Wire Connection".
- Reassemble and secure the unit in the dashboard and set the face panel and center panel.



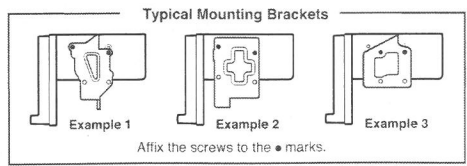
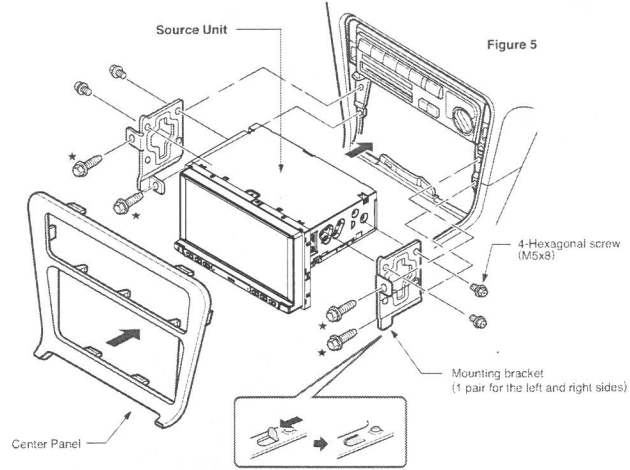
### Installing the Source Unit in a NISSAN Vehicle



- Note 1:** Position the face panel with its wide edge at the bottom. Fit the edge into the groove of the source unit.
- Note 2:** Peel off the exfoliation sheet from the tape and attach the spacer to the source unit.

### Installing the Source Unit in a TOYOTA Vehicle

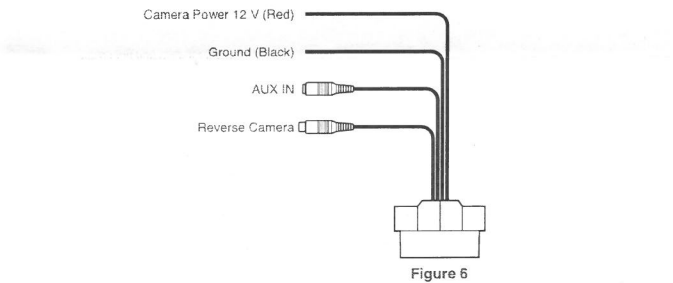
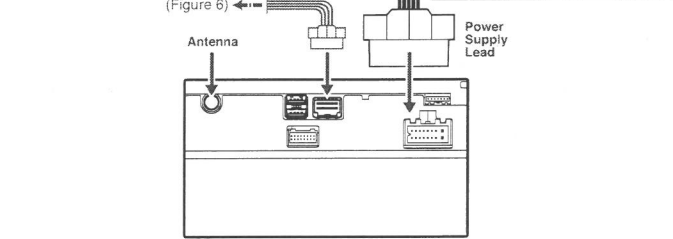
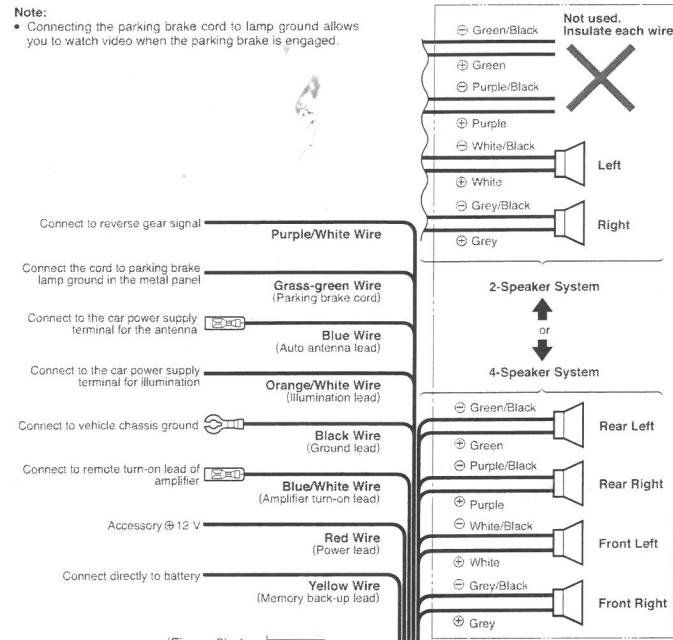
Install by using parts attached to the vehicle. (Screws marked are \* attached to the vehicle.)



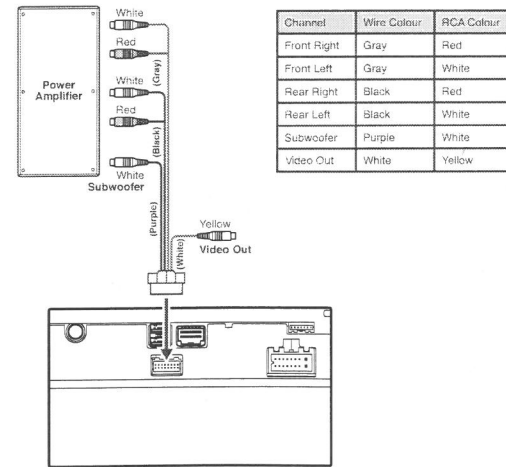
- Removing the Source Unit**  
When the source unit is to be removed, disassemble it in the reverse of the order in "Installing the Source Unit".

## Wire Connection

- Note:**
- Connecting the parking brake cord to lamp ground allows you to watch video when the parking brake is engaged.



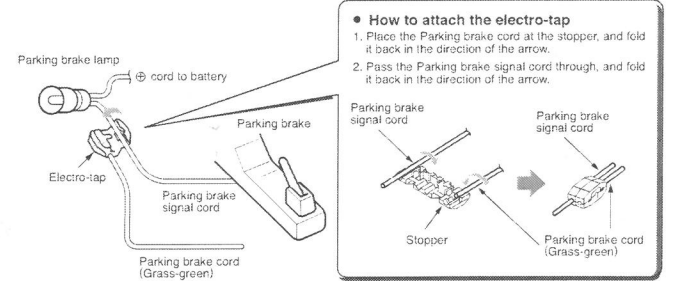
- Notes:**
- Before installing, be sure to disconnect the negative ⊖ cable of the car battery.
  - In the optional devices, the Extension Cable and Accessories are separately-sold items.
  - Refer to authorized dealership for speed pulse connectivity.



- CAUTION:**
- Please make sure the external power amplifier and ground amplifier are connected to car chassis properly.

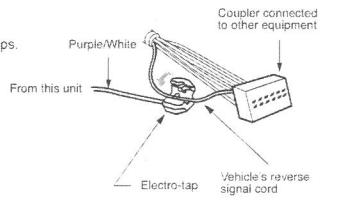
- Connecting the parking brake cord**  
Connect the cord to parking brake lamp ground in the meter panel.

- Notes:**
- Connecting the parking brake cord to lamp ground allows you to watch video images when the parking brake is engaged.
  - When the parking brake cord is not connected, the monitor will not display video images.



- Connecting the reverse gear signal cord (For installation with reverse camera)**  
Connect reverse signal lead using the supplied electro-taps.

- Place the lead from this unit at the stopper, and fold it back in the direction of the arrow.
- Pass the vehicle signal lead through, and fold it back in the direction of the arrow.



- Note:**
- Connect the reverse camera video signal output to the RCA pin cord. If not, the screen will turn black while the gear shift lever is in the reverse gear position.