Taylor Made®
Wavemaker Amplifier
Installation and Owner's Manual
(For Aftermarket Applications)

Table of Contents

Wavemaker Amplifier Kit

Part #	Description
811752	Wavemaker Amplifier Kit

Introduction

The Taylor Made® Wavemaker amplifier is a 360 watt, four channel class D fully-integrated amplifier with 31 bands of equalization. The Wavemaker has Bluetooth 5.0 and Wi-Fi, and can be controlled, tuned and streamed from the available phone app.

When coupled with Taylor Made Exciter speakers, the Wavemaker can turn the glass into speakers for an immersive listening experience.

Additional information about this product can be obtained from lci1.com/support or by using the myLCI app. Replacement kits can be ordered from https://store.lci1.com/ or by using the myLCI app.

The myLCI app is available for free on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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Google Play™ and Android™ are trademarks of Google Inc.

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Safety

Read and fully understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the LCI limited warranty.

⚠ WARNING

THE "WARNING" SYMBOL ABOVE IS A SIGN THAT AN INSTALLATION PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE DEATH OR SERIOUS PERSONAL INJURY, SEVERE PRODUCT OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

⚠ CAUTION

THE "CAUTION" SYMBOL ABOVE IS A SIGN THAT AN INSTALLATION PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE PERSONAL INJURY OR PRODUCT DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

Parts List
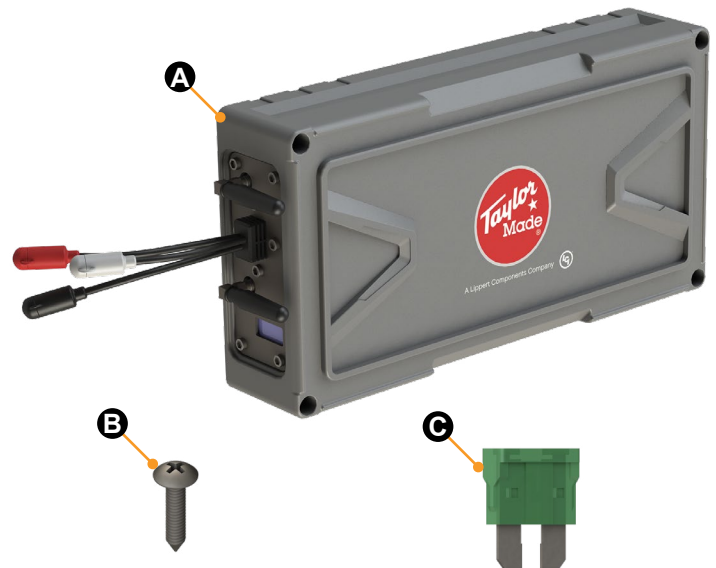
Wavemaker Amplifier Kit #811752			
Letter	Part #	Description	Qty
A	2020125642	Wavemaker Amplifier	1
B	2020125675	Mounting Screws, M4 x 15mm PPH	4
C	2020125686	Spare Green 30 AMP Fuse	1

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.

Resources Required

- Cordless or electric drill with Phillips and drill bits
- Wire stripper and crimper

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Installation

1. Select a location to mount the Wavemaker amplifier. It should be mounted to a flat, solid location that is in close proximity to the power source.

NOTE: Do not mount near heat sources and make sure there is sufficient air flow around the unit.

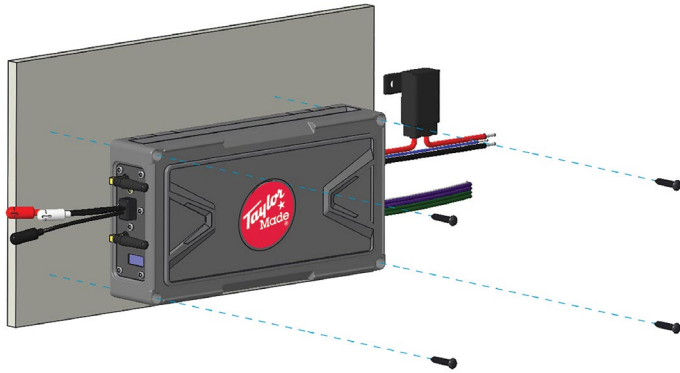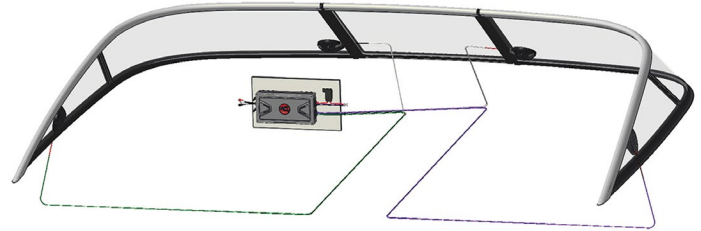**2.** Mount the amplifier using supplied screws **(Fig.1)**. Pre-drilling holes is recommended.

Inside View

Fig.1

3. Connect the speaker wires from installed Exciters to the amplifier **(Fig.2)** according to the wiring diagrams on the next two pages.

NOTE: See Exciter Speaker Aftermarket Document CCD-0003868 for Exciter installation instructions.

Outside View

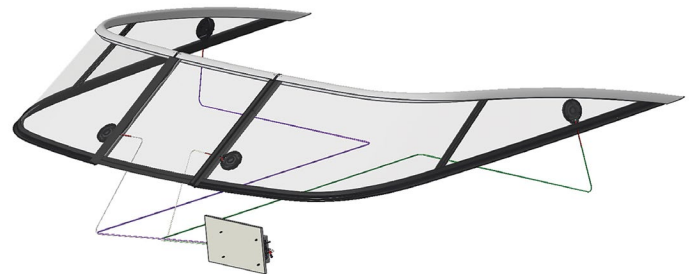**Fig.2**

Operation - PC

1. Download the Taylor Made FX DSP app from www.taylormadeproducts.com/wavemaker and install on a PC.

2. Apply power to the amplifier.

NOTE: The Wavemaker Amplifier has a five minute timer for establishing a connection. If the amplifier is attached to a switched assessory power, and that power is turned off then on again, the five minute timer will restart.

3. Go to the Wi-Fi settings on the PC.

4. Connect to the TM_FX_DSP network to get to the DSP Audio Adjustment System Screen **(Fig.3)**.

See pages 5 and 6 for more information on adjusting these features.

Delay
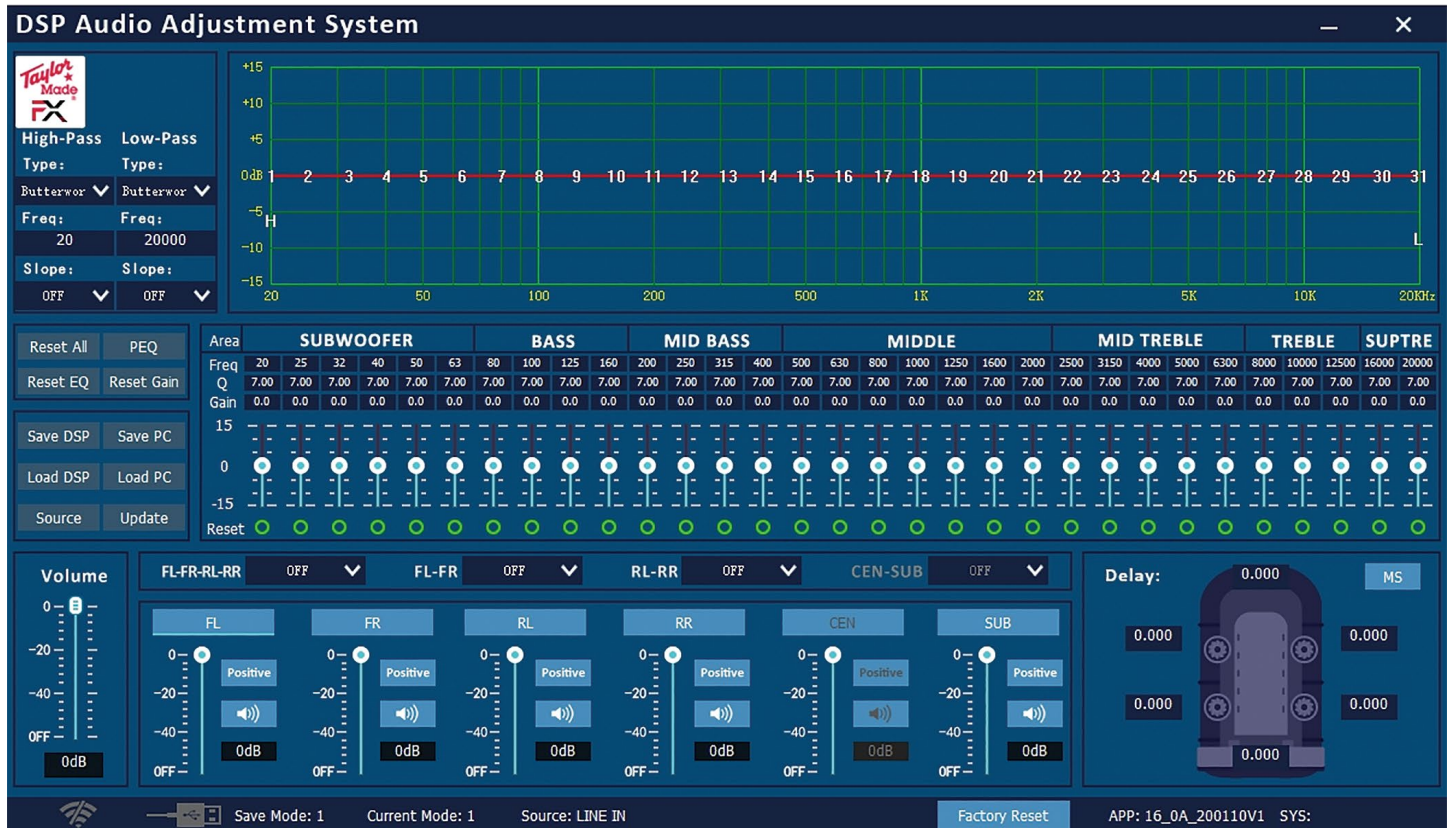Delay for all channels can be adjusted in a range from 0 to 12.5 in Time (ms) or Distance (mm) **(Fig.4)**.

Fig.4

Fig.3

Master Volume Control

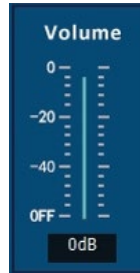The master volume can be adjusted from 0 to -59dB (**Fig.5**).

Fig.5

Equalizer Reset Buttons

• **Reset All** - Restores default settings (**Fig. 6A**).

• **Reset EQ** - Sets the gain to 0 and the Q and Hz to default (**Fig. 6B**).

• **PEQ Parameter or Graphic Equalizer** - In graphic mode, the Q or Hz cannot be adjusted (**Fig. 6C**).

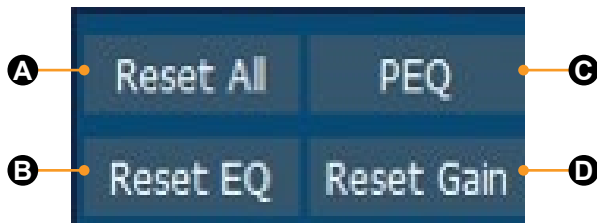• **Reset Gain** - Will set all 31 gains to 0 (**Fig.6D**).

Fig.6

Current Settings

• **Save Mode** - Indicates which EQ preset is saved in the DSP (**Fig.7**).

• **Current Mode** - Indicates which EQ setting is active (**Fig.7**).

• **Source** - Indicates if Aux Line or Bluetooth is in use (**Fig.7**).

| Save Mode: 1 | Current Mode: 1 | Source: LINE IN |

Fig.7

Crossover Configuration

Choose between Butterworth or Bessel filter type (**Fig. 8A**). Select the appropriate frequencies (**Fig. 8B**) and slopes for each speaker (**Fig. 8C**).

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WHEN USING EXCITERS, IT IS RECOMMENDED THAT THE HIGH PASS FREQUENCY BE SET TO 80Hz AND THE SLOPE AT 24dB. ANY OTHER SETTING MAY RESULT IN DAMAGE TO THE EXCITERS.
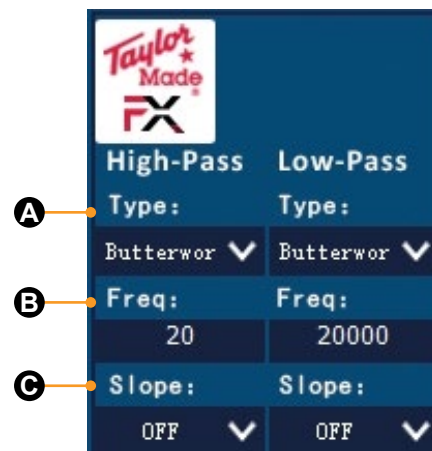

Fig.8

Save Modes

• **Save DSP** - Saves the EQ parameters into the DSP EQ1 through 8. EQ name is limited to 20 characters (**Fig.9A**).

• **Load DSP** - Accesses EQ1 through 8 parameters that are stored in the DSP (**Fig. 9B**).

• **Source** - Allows selection between Bluetooth or RCA Line In (**Fig. 9C**).

• **Save PC** - Saves the EQ parameters to the Documents folder on the PC (**Fig. 9D**).

• **Load PC** - Accesses the Documents folder on the PC and allows previously saved EQ parameters to be loaded (**Fig. 9E**).
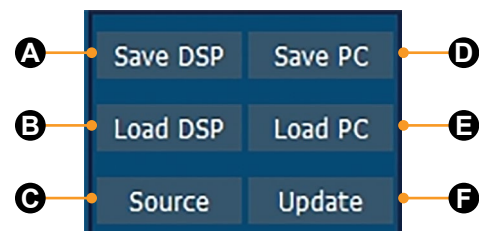
• **Update** - Not supported (**Fig. 9F**)

Fig.9

Eqaulization

There are 31 bands of equalization that can be tuned independently or combined (**Fig.10**).

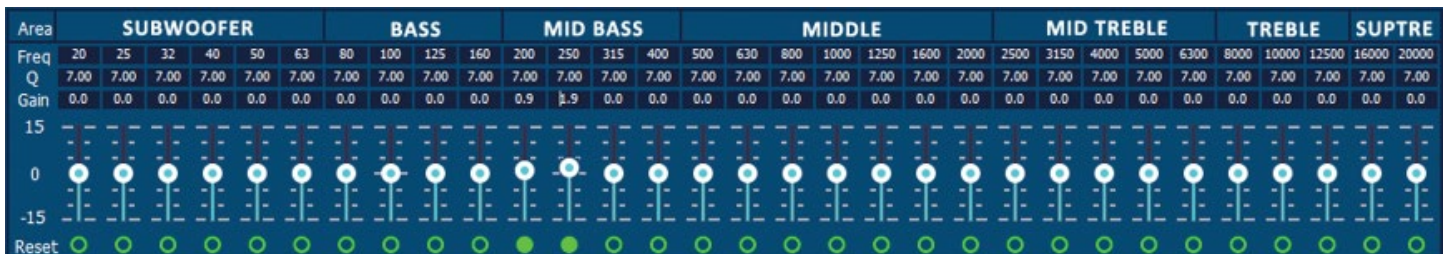**NOTE:** The center channel is not supported.

Area	SUBWOOFER						BASS				MID BASS				MIDDLE							MID TREBLE					TREBLE			SUPTRE	
Freq	20	25	32	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000
Q	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Gain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Fig.10

Input Configuration

Each channel has independent volume, mute, and polarity control (**Fig.11**).

Fig.11

Channel Linking

Each channel can be linked by selecting one channel (FL) to control all four channels or two channels (FL/RL) for front and rear channels. The OFF position allow for four independent channels (**Fig.12**).

Fig.12

Operation - Android & iOS

The Wavemaker system is operated by an app available at the Google PlayStore and iTunes.

1. Download and install the Taylor Made FX DSP app on an Android or iOS device.

2. Apply power to the amplifier.

NOTE: The Wavemaker Amplifier has a five minute timer for establishing a connection. If the amplifier is attached to a switched assessory power, and that power is turned off then on again, the five minute timer will restart.

3. Go to the Wi-Fi settings.

4. Connect to the TM_FX_DSP network.

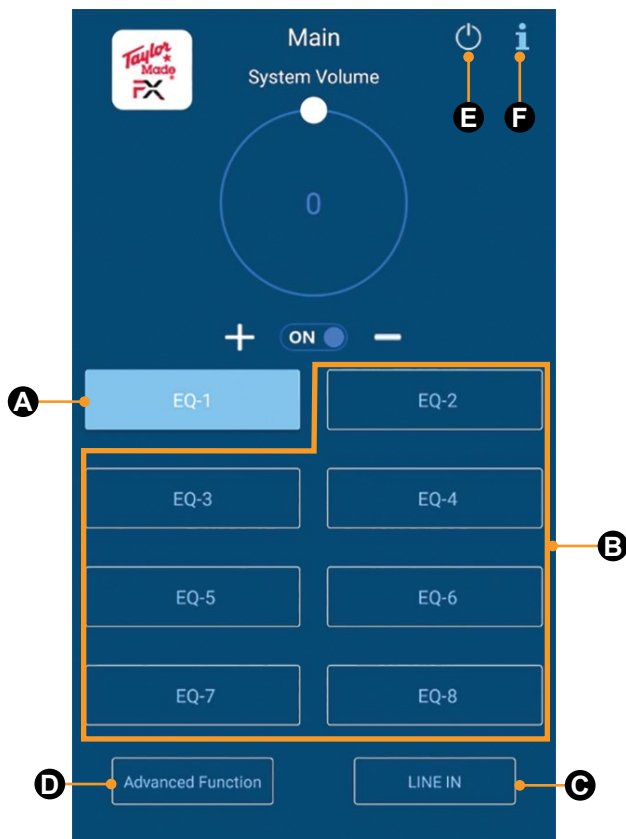**5.** Open the app and establish sync to DSP **(Fig.13)**.

6. EQ1 is the OEM Factory default setting that was tuned during production, if the system came from an OEM **(Fig. 13A)**.

7. EQ2 through 8 are flat and can be adjusted. Select one of the EQ buttons to make changes **(Fig.13B)**.

8. Select the correct audio source, either Line-in or Digital BT **(Fig.13C)**.

9. Press the Advanced Function button to access the DSP settings **(Fig.13D)**.

10. If the DSP does not automatically connect, press the DSP Sync button **(Fig. 13E)**.

11. Press the Info button to display software versions of DSP and App **(Fig. 13F)**.

12. To use the Master/Main Volume control **(Fig. 14)**, move the white ball around the circle or use the (+) plus or (-) minus controls to set the master volume level.

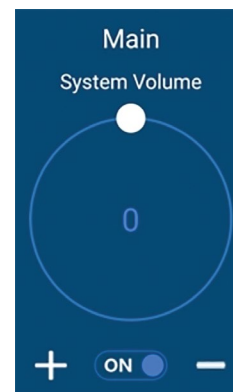**NOTE:** It is important to match volume to the audio source to prevent distortion.

Fig.13

Fig.14

See the next page for additional adjustment screens.

Time Delay

Delay for each speakers can be adjusted in a range from 0 to 12.5 in Time (ms) or Distance (mm) **(Fig.15)**.
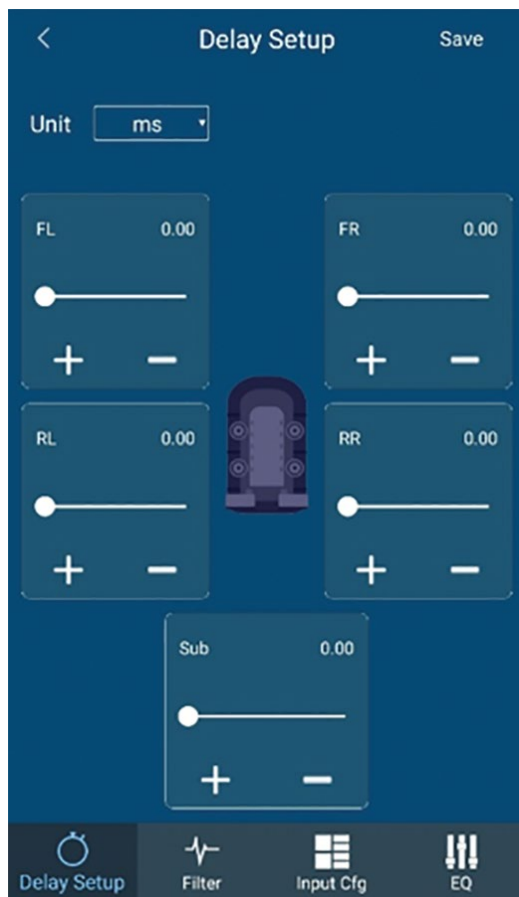

Fig.15

Input Configuration

Each channel has independent volume, mute, and polarity control. Channel linking is possible by selecting (FL-FRRL-RR), (FL-FR) OR (RL-RR) to control all four channels or two channels for front and rear. The off position allows for independent channel adjustment **(Fig.16)**.
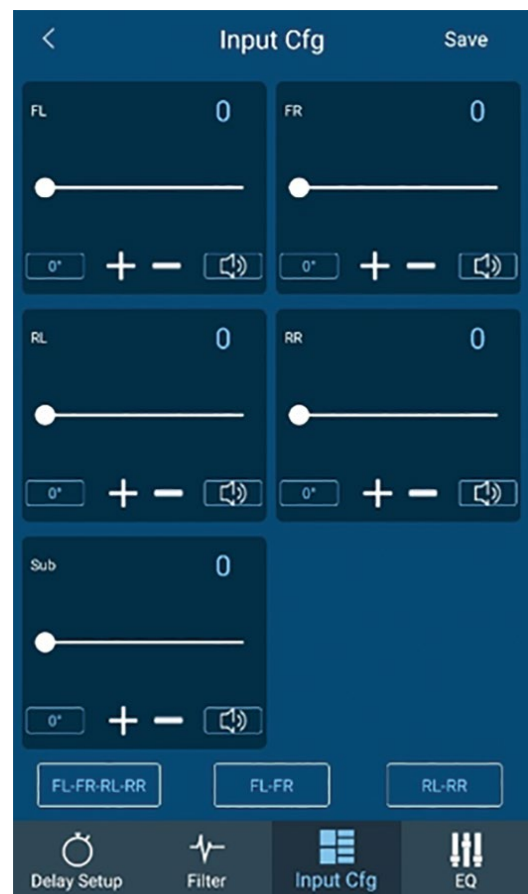

Fig.16

Crossover Configuration

Choose between Butterworth or Bessel filter type. Select the appropriate frequencies and slopes for each speaker **(Fig.17)**.

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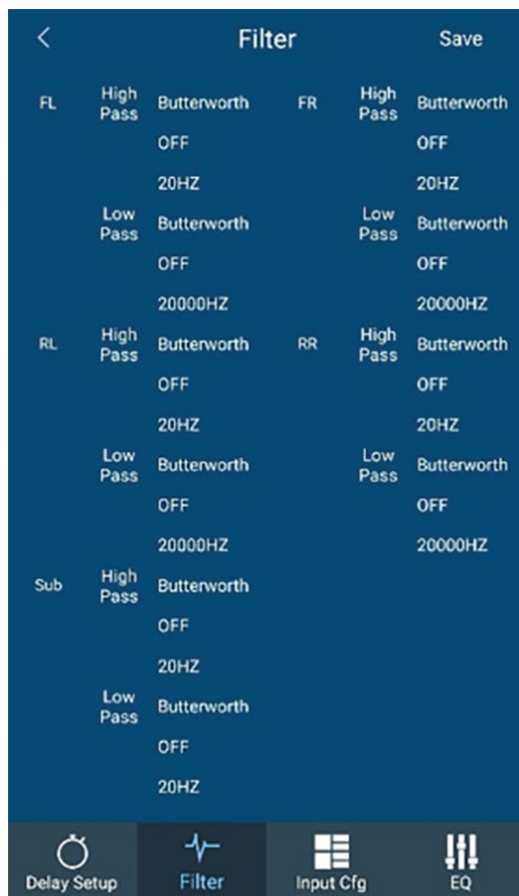
Fig.17

Equalization

There are 31 bands of equalization. Each channel can be tuned independently or combined. Swipe left or right over the sliders to reveal additional frequency bands **(Fig.18)**.
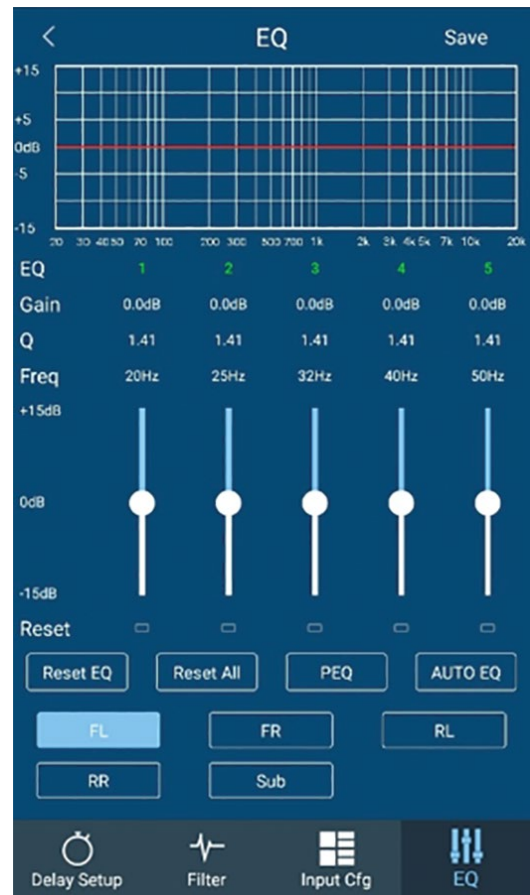
Fig.18

A Lippert Components Company

Wiring Diagrams

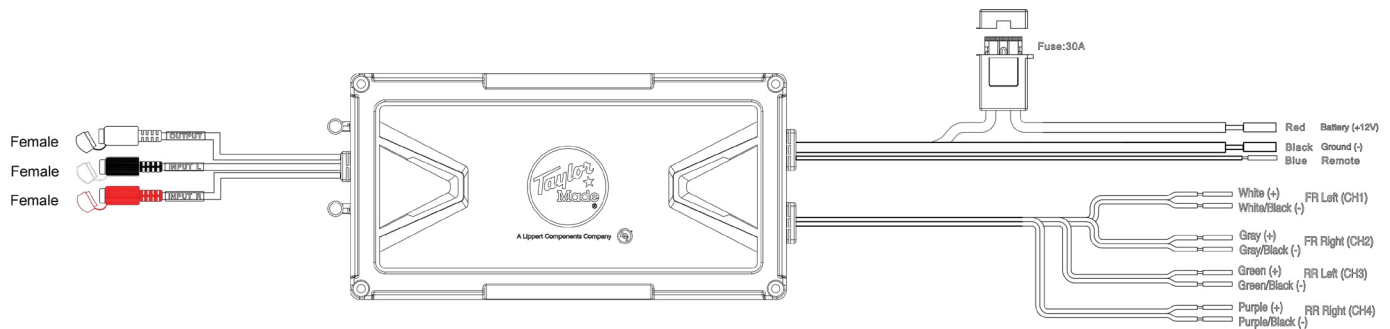## Amplifier

NOTE: Connect any switched accessory power to the Blue remote wire.

Fuse:30A

Female — OUTPUT
Female — INPUT L
Female — INPUT R

Red — Battery (+12V)
Black — Ground (-)
Blue — Remote

White (+) — FR Left (CH1)
White/Black (-)
Gray (+) — FR Right (CH2)
Gray/Black (-)
Green (+) — RR Left (CH3)
Green/Black (-)
Purple (+) — RR Right (CH4)
Purple/Black (-)

Bridge Mode

White/Black
FL+ — White
Gray
FR- — Gray/Black

Green/Black
RL+ — Green
Purple
RR- — Purple/Black

Stereo Mode

FL+   White (+)

FL-   White/Black (-)

FR+   Gray (+)

FR-   Gray/Black (-)

Green (+)   RL+

Green/Black (-)   RL-

Purple (+)   RR+

Purple/Black (-)   RR-

FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

FCC ID: XNI-ID25351

Notes

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