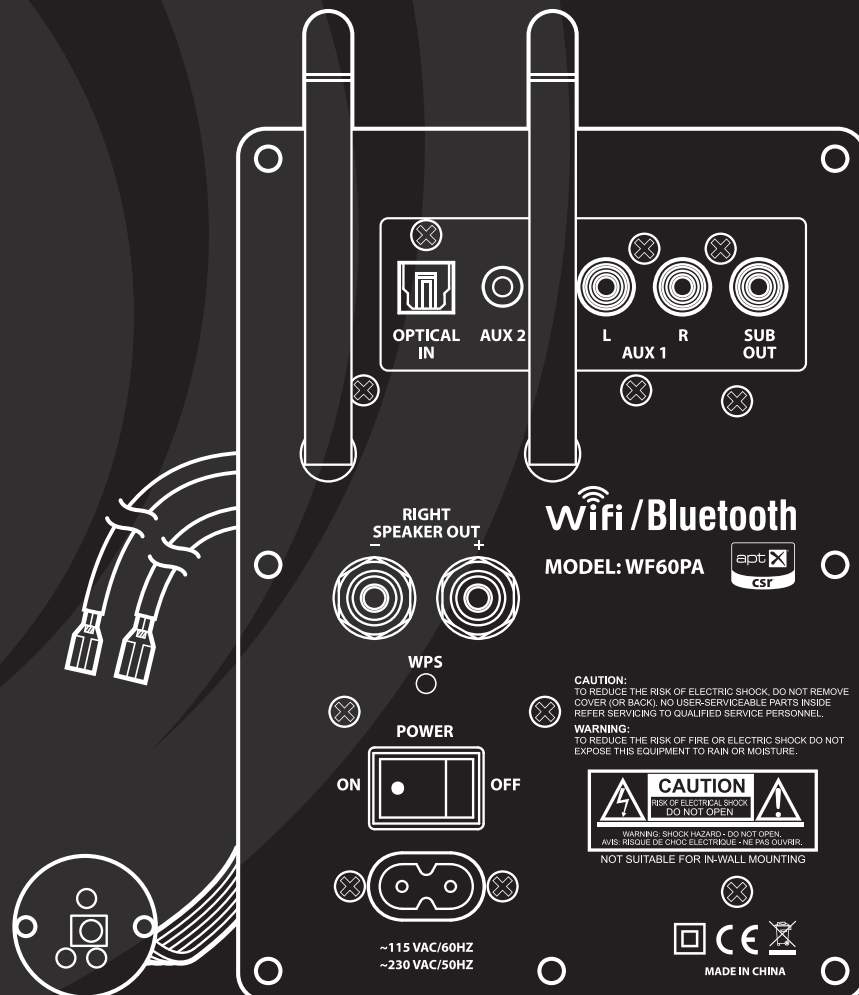




60W CLASS D FULL RANGE 2.1 PLATE AMPLIFIER with Wi-Fi and BLUETOOTH 4.0 aptX

Model: WF60PA User Manual



INTRODUCTION

Congratulations on your purchase of the Dayton Audio WF60PA 60-watt plate amplifier with Wi-Fi and Bluetooth audio! The WF60PA is a feature-packed full range Class D plate amplifier that makes it easy to add high-quality Wi-Fi and AptX Bluetooth 4.0 wireless connectivity to your speakers. In addition to its wireless inputs, the WF60PA features RCA, 3.5mm, and optical digital inputs, plus a subwoofer output (LFE).

The WF60PA is ideal for the project builder or OEM, with endless applications. Use the WF60PA to build multimedia speakers, powered monitor speakers, or even retrofit existing speakers! Each Wi-Fi module is serialized for easy identification when using multiple plate amps, and each plate amp powers its host speaker plus an additional passive unit with up to 30 watts per channel.

ASSEMBLY

Select a mounting location for the WF60PA amplifier module that allows the 30" speaker cable to easily reach the speaker or crossover input terminals. Mount the WF60PA amplifier module into a 4" (W) x 5-3/4" (H) cut-out in your cabinet, and bore an 11/16" diameter hole to mount the IR target/ BT/Wi-Fi pairing indicator PCB.

INPUTS/OUTPUTS

The WF60PA features a variety of input connections to suit a variety of needs:

1.) OPTICAL – Connect an S/PDIF Toslink cable to this input. The Toslink input supports PCM digital audio signals via an optical cable and a high-quality AKM digital-to-analog converter.

2.) AUX 2 – Connect a line-level or headphone-level signal to the 3.5 mm AUX 2 input using a 3.5 mm to 3.5 mm or 3.5 mm to RCA cable.

3.) AUX 1 – Connect a line-level stereo audio signal to the AUX 1 input using quality RCA style cables.

4.) SUB OUT – Connect a powered subwoofer to the SUB OUT using a standard RCA style cable. The subwoofer plays content below 80 Hz when connected; the speaker outputs remain full-range.

5.) RIGHT SPEAKER OUT – Connect a remote full-range speaker to the SPEAKER OUT. Be sure and pay attention to positive and negative polarity. The amplifier will provide up to 30 watts into a 4 ohm minimum impedance on this connection.

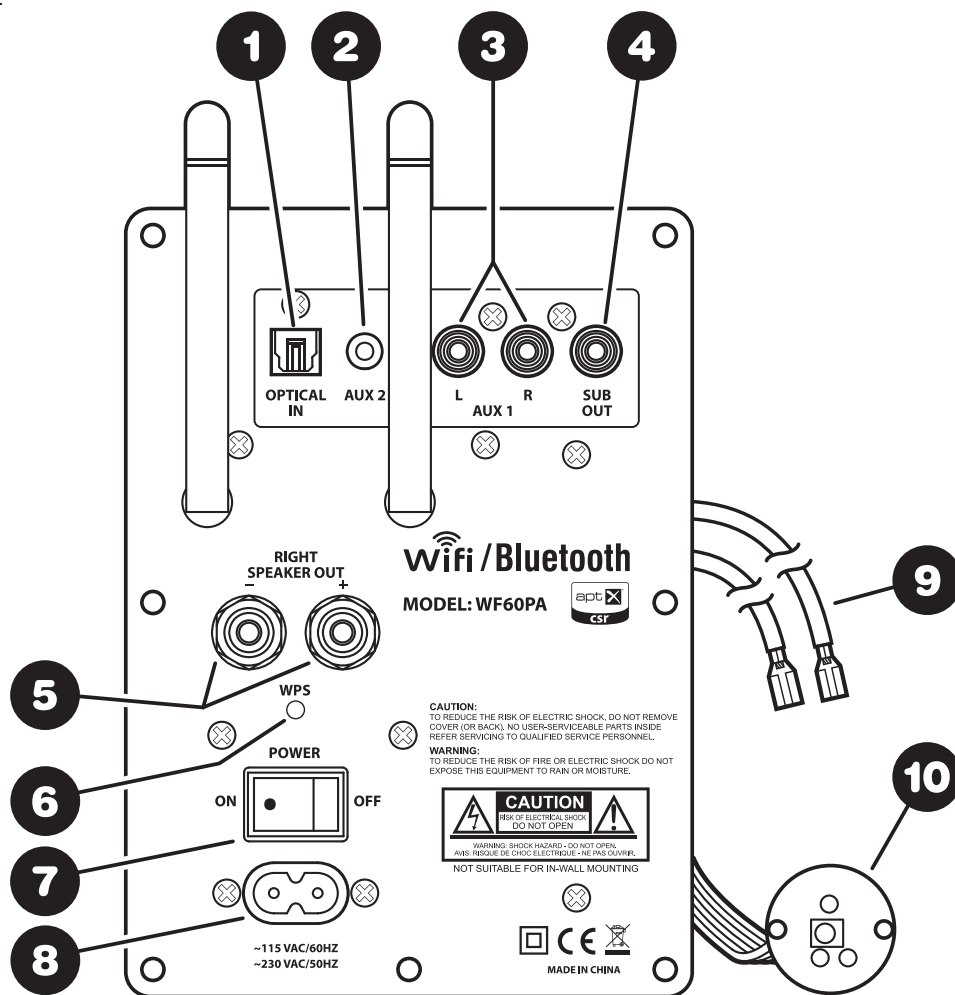
6.) WPS: Wi-Fi Simple Configuration – is a network standard to securely add devices to your wireless network.

7.) POWER – Switch to the ON position when operating the WF60PA and the OFF position when the unit is not in use.

8.) AC INPUT – Connect line power to the AC INPUT using the included non-polarized "figure 8" style power cord. The WF60PA switch-mode power supply accommodates a full range of operating voltages from 115-230V, and is double insulated for use with non-grounded line cords.

9.) SPEAKER (LEFT) OUTPUT – This speaker output is designed to connect to the speaker inside of the enclosure, and the Speaker (Right) output on the rear panel of the amplifier will connect to your right passive speaker to give you a powered stereo pair.

10.) IR CONTROL BOARD – This is the IR received that should be installed in your speaker or project to allow control of the amplifiers functions with the handheld IR remote control.



Note: For modeling use both 2D and 3D mechanical files are available for download of this plate amplifier. Files can be found on the daytonaudio.com website.

REMOTE CONTROL

POWER – Toggles the power state of the amplifier from STANDBY to ON. When the unit is ON, the indicator LED will illuminate BLUE. When the unit is in STANDBY, the indicator LED will illuminate RED. (**Note:** Turning OFF the rear power switch will turn power completely off to the unit, disabling the remote.)

VOLUME – Adjusts the volume level of the amplifier. If the source device has a volume control in itself, set the volume to full then control the volume with the WF60PA volume control. As the volume increases or decreases the blue indicator LED will flash. When volume is at min or MAX, the blue indicator LED will not flash.

MUTE – Press once to temporarily mute the amplifier. The blue indicator LED will flash slowly while the WF60PA is muted.

PLAY/PAUSE  – Press once to play or pause program audio in Bluetooth mode only.

PREVIOUS/SKIP   – Press to move to the beginning of the current song or advance to the next song in Bluetooth mode only.

AUX 1/2 – Press once to switch to the corresponding analog input on the amplifier. The blue indicator LED will flash once.

OPTICAL – Press once to switch to the S/PDIF Toslink input on the amplifier. The blue indicator LED will flash once.

BLUETOOTH – Press to switch to and pair with the Bluetooth input on the amplifier. The blue indicator LED will flash once.

WiFi – Press once to switch to the Wi-Fi input on the amplifier. The blue indicator LED will flash once.

OPERATION

Once you have completed installation of the WF60PA into your project it is best to test the system using a known operating source component connected to one of the analog inputs. The default state of the amplifier at power-ON is to enter STANDBY mode; use the remote to turn the power on and select an input to begin listening.

PHYSICAL CONNECTION

Connect an audio source to any of the three external inputs. Permanent connection of sources including CD/BD/DVD players, television/satellite/cable boxes, game consoles, and other sources are best supported using the OPTICAL or AUX 1 (RCA) inputs, while portable music players and PCs are best supported by the AUX 2 (3.5 mm) input.

WIRELESS CONNECTION – BLUETOOTH®

Bluetooth connectivity provides an easy, wireless connection for a personal audio device such as a tablet or mobile phone. The WF60PA utilizes a Bluetooth 4.0 transceiver featuring aptX® decoding for CD quality audio, and also supports legacy A2DP, AVRCP, HFP, and HSP Bluetooth audio. This is a Class II Bluetooth receiver with a range of approximately 10 meters. To pair your device, press the Bluetooth button on the IR remote control, scan for new Bluetooth devices on your phone or tablet and select the device labeled “WF60PA”. The blue LED indicator will flash in pairing mode, when pairing is successful the LED turns solid blue.

Note: The remote control functions PREVIOUS, SKIP, PLAY, and PAUSE are only available for use in Bluetooth mode.

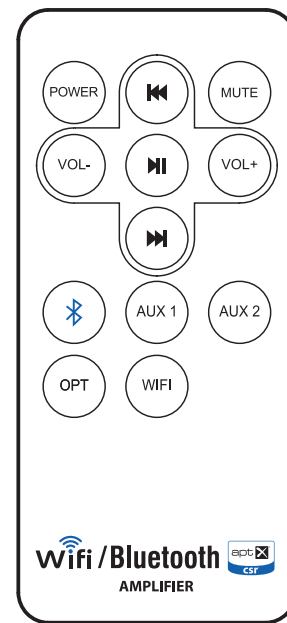
WIRELESS CONNECTION – WI-FI

The Wi-Fi connection in the WF60PA operates using your home Wi-Fi internet connection. The Wi-Fi connection provides an easy, wireless connection for streaming music, using the Hi-Fly app, AirPlay®, or DLNA.

Open the Hi-Fly app on your smart phone. Ensure your amp is powered on and is in Wi-Fi mode. Follow the in-app directions to connect your WF60A amplifier to your network.

STANDBY MODE

The WF60PA will automatically switch to standby mode if no signal is sensed for 15 minutes. Power consumption in standby mode is less than 0.5W.



IR REMOTE

SPECIFICATIONS

Power:	2 x 30 Watts RMS (Class D)
Inputs:	AUX 1: 2 x RCA, AUX 2: 3.5mm Stereo, S/PDIF Optical: Toslink
Outputs:	30" lead with 0.205" disconnects, Dual 5-way binding posts, RCA LFE Output (80 Hz Xover)
Frequency response:	45-20,000 Hz
Operating power:	115 ~ 230 VAC, 50/60 Hz, 80 Watts
Standby power:	<0.5 Watts
Bluetooth module:	V4.0 + EDR, Class II
Bluetooth Audio Profiles:	aptX, A2DP, AVRCP, HFP, and HSP
Bluetooth range:	10 meters
Wi-Fi:	2.4 GHz, Apple AirPlay® DLNA, Hi-Fly App compatible
Signal to noise ratio:	>95dB

Specifications and design subject to modification without notice

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5-Year Limited Warranty

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