

speco technologies®

PAW-80A

**PORTABLE WIRELESS
MIXER AMPLIFIER**



6. TECHNICAL SPECIFICATION

Items	Model	WDA-281D / WDA-281UD / WDA-281CTD / WDA-282D WDA-282UD / WDA-282CTD / WDA-80D / WDA-80UD / WDA-80CTD
Power Supply		AC: 100-127V ~50/60Hz; or 220-240V~50/60Hz EXTERNAL DC: 8.5-14.4 V DC; Battery recharged 12V DC
Speaker System		Woofers: 8" cone paper; Tweeter: 1"6ohm 25W;
Power Consumption		140W (At rated power output for AC)
Rated Power Output		RMS: 80W
Frequency Response		50-17000Hz (+/-3dB)
Total Harmonic Distortion		Less than 0.5%
Line Output		1V (0dBV)
Inputs		MIC1-2: -46dBV ±2dB unbal AUX: -10dBV ±2dB unbal
Signal Noise Ratio		MIC1-2: 55dB below rated power AUX: 65dB below rated power
Tone Controls		BASS: ±10dB at 100Hz; TREBLE: ±10dB at 10KHz;
Controls		MIC1-2 Volume controls AUX Volume control Master Volume control Tone controls(BASS, TREBLE) RF1, RF2 Volume & Switch controls(WDA-xx1, xx2 series) TAPE Volume control(only xxxUD, xxxCTD series) MAIN Power Switch DC Power Switch VOICE PRIORITY Switch
Indicators		Power indicator; Battery Voltage indicators; RF power & signal indicators
Battery Charge Time		Less than 11 hours
Battery Use Time		More than 3 hours
Wireless	Frequency Band	VHF high band 170-245 Mhz
	Receiver Module	WTU-211
	Modulation Mode	FM(F3E)
	Maximum Deviation	±40KHz with limiting compressor
	Receiving Mode	Quartz controlled fixed frequency
	Distortion	Less than 1%
CD Player	Frequency Stability	±0.0005%
	Output	400mV
	Distortion	Less than 0.5%
	Frequency Response	50-17000Hz (+/-3dB)
	Signal Noise Ratio	Better than 60dB
Cassette	UC-100	Record Playback (only WDA-281UD/ WDA-282UD)
	CD-36	Cassette Player (only WDA-281CTD/ WDA-282CTD)
AM/FM Tuner		FM: 87-108MHz / AM: 522-1610KHz (only WDA-281CTD/ WDA-282CTD)
Dimensions		277(W) x 256(D) x 415(H) mm
Color		Black
Optional	Stand	F-8
	Luggage Bag	P-80
Wireless Microphone		WDA-282xx series: 2PCS microphone; WDA-281xx series: 1PCS microphone; WDA-80D without wireless microphone

IMPORTANT!

Please read this manual carefully before operating this unit for the first time.

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**NOTE:1. Specifications, design and appearance are subject to change without priority notice.
2. It is not recommended to use the frequencies which government does not permit.**

5. CAUTION

1. When the external DC is used as power supply, please use 12V DC.
2. If car battery is used as power supply, please use 12V battery with "-" grounding. Do not use the battery with "+" grounding or 24V battery in case of the apparatus damage.
3. Do not use any volatile solvents such as toluene, alcohol or gasoline for cleaning. keep it clean and free from dust.
4. In summer, Do not put this apparatus in a closed car or in the sun directly.
5. Do not put the apparatus in rain or moisture.
6. Always turn off DC power and Main POWER when the apparatus is turned off.

SAFETY RELATED SYMBOLS



This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.



This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.



Protective Ground Terminal



AC mains (Alternating Current)



Hazardous Live Terminal

ON: Denotes the product is turned on.

OFF: Denotes the product is turned off.

WARNING

Describes precautions that should be observed to prevent the possibility of death or injury to the user.



Disposing of this product should not be placed in municipal waste and should be separate collection.



CAUTION

Describes precautions that should be observed to prevent damage to the product.

WARNING

• Power Supply

Ensure that the mains source voltage (AC outlet) matches the voltage rating of the product. Failure to do so could result in damage to the product and possibly the user.

Unplug the product before electrical storms occur and when unused for long periods of time to reduce the risk of electric shock or fire.

• External Connection

Always use proper ready-made insulated mains cabling (power cord). Failure to do so could result in shock/death or fire. If in doubt, seek advice from a registered electrician.

• Do Not Remove Any Covers

Within the product are areas where high voltages may present. To reduce the risk of electric shock do not remove any covers unless the AC mains power cord is removed.

Covers should be removed by qualified service personnel only.

No user serviceable parts inside.

• Fuse

To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

• Protective Ground

Before turning the product ON, make sure that it is connected to Ground. This is to prevent the risk of electric shock.

Never cut internal or external Ground wires. Likewise, never remove Ground wiring from the Protective Ground Terminal.

• Operating Conditions

Always install in accordance with the manufacturer's instructions.

To avoid the risk of electric shock and damage, do not subject this product to any liquid/rain or moisture. Do not use this product when in close proximity to water.

Do not install this product near any direct heat source. Do not block areas of ventilation. Failure to do so could result in fire.

Keep product away from naked flames.

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions

Follow all instructions

Keep these instructions. Do not discard.

Heed all warnings.

Only use attachments/accessories specified by the manufacturer.

• Power Cord and Plug

Do not tamper with the power cord or plug. These are designed for your safety.

Do not remove Ground connections!

If the plug does not fit your AC outlet seek advice from a qualified electrician.

Protect the power cord and plug from any physical stress to avoid risk of electric shock.

Do not place heavy objects on the power cord. This could cause electric shock or fire.

• Cleaning

When required, either blow off dust from the product or use a dry cloth.

Do not use any solvents such as Benzol or Alcohol.

For safety, keep product clean and free from dust.

• Servicing

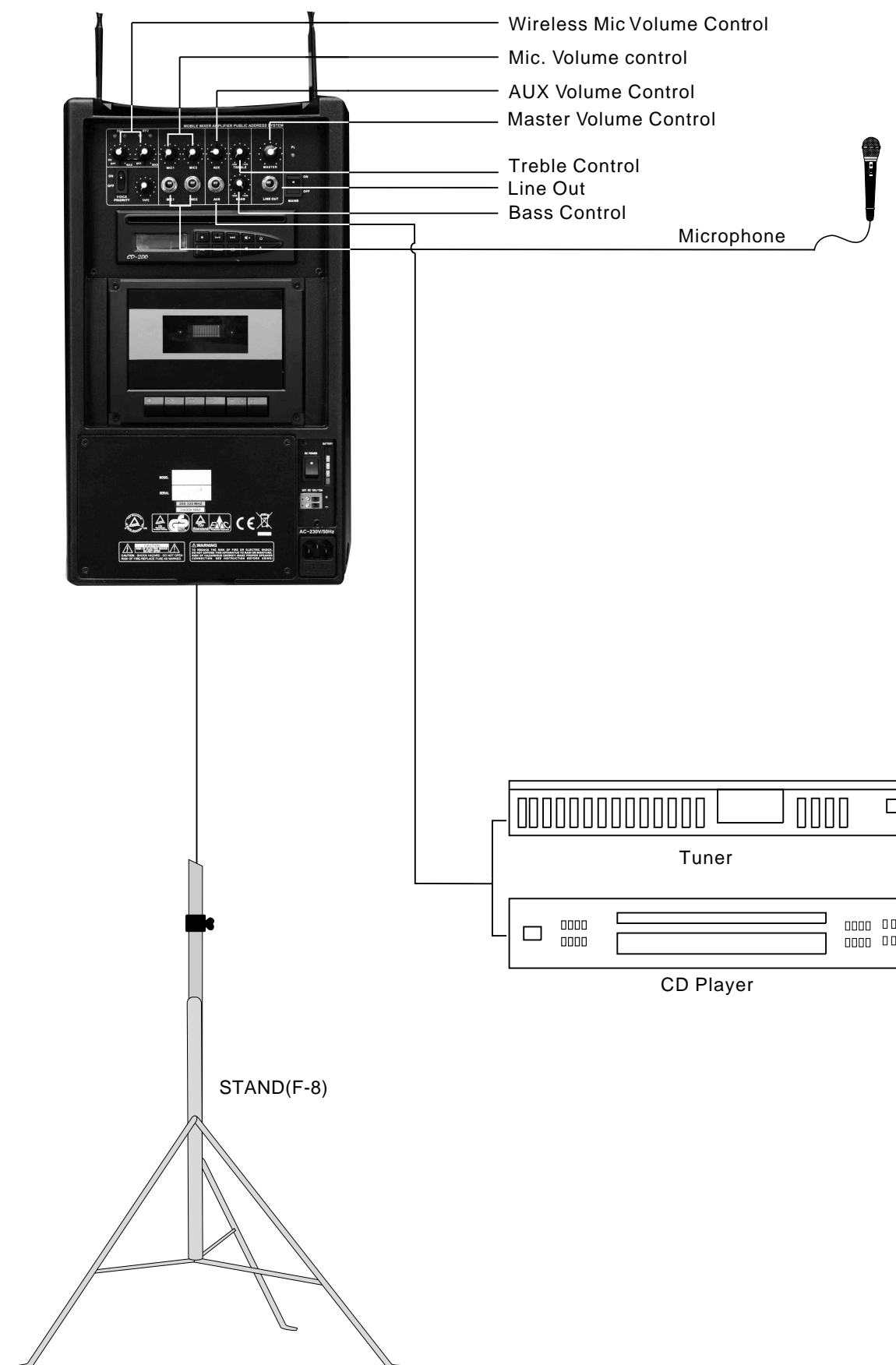
Refer all servicing to qualified service personnel only. Do not perform any servicing other than those instructions contained within the User's Manual.

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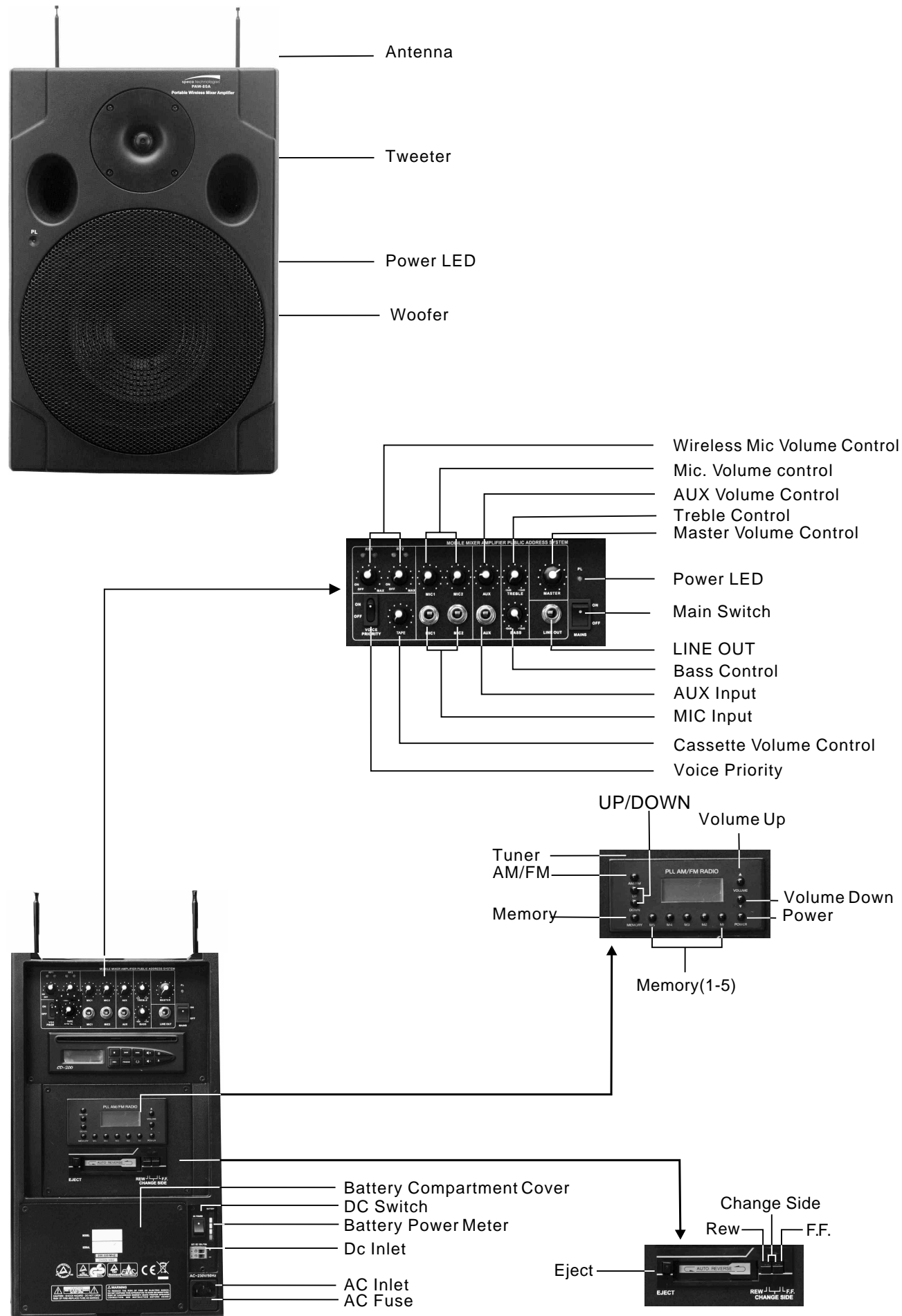
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4. CONNECTION DIAGRAM

(Using WDA-282UD as a example)



(2)WDA-282CTD



1. INTRODUCTION OF WDA SERIES

WDA series is a mobile mixed amplifier broadcast system. It has many advantages, such as compact, high power and high quality sound etc. This series includes the following models, WDA-281D, WDA-282D, WDA-281UD, WDA-282UD, WDA-281CTD, WDA-282CTD, WDA-80D. Please refer to the following form for their differences.

Model	wireless MIC Qty	CD Player	Cassette (UC-100)	Cassette(CD-36)	Tuner
WDA-281D	1	*			
WDA-282D	2	*			
WDA-281UD	1	*	*		
WDA-282UD	2	*	*		
WDA-281CTD	1	*		*	*
WDA-282CTD	2	*		*	*
WDA-80D	0	*			
WDA-80UD	0	*	*		
WDA-80CDT	0	*	*	*	

* stands for it has the function.

2. FEATURES

- User- friendly operation,
- It is equipped with professional wireless receiving module with quartz locked, output volume control and signal indicator. When the wireless MIC works, the CD player or cassette or tuner and AUX output can be muted.
- Build-in two microphones and a AUX input with individual volume control.
- Build-in two tone controls (treble, bass) and a master volume control
- Digital CD player with clear sound, easy operation
- Professional two way crossover
- Class D power amplifier which is light and has the high efficiency of power consuming which makes low heat dissipation and lengthen the battery life
- Professional fixing hole for heightening this unit to meet the requirements
- Handle for easy carrying.
- Three power supplies: AC 100-127/220-240V, EXT. DC12V and built-in rechargeable BATTERY; AC has the priority to the other two forms of power supply.
- When AC inputs, the battery recharges automatically.
- Built-in intelligent recharging circuit
When AC inputs, it recharges the battery automatically.
- Battery power meter

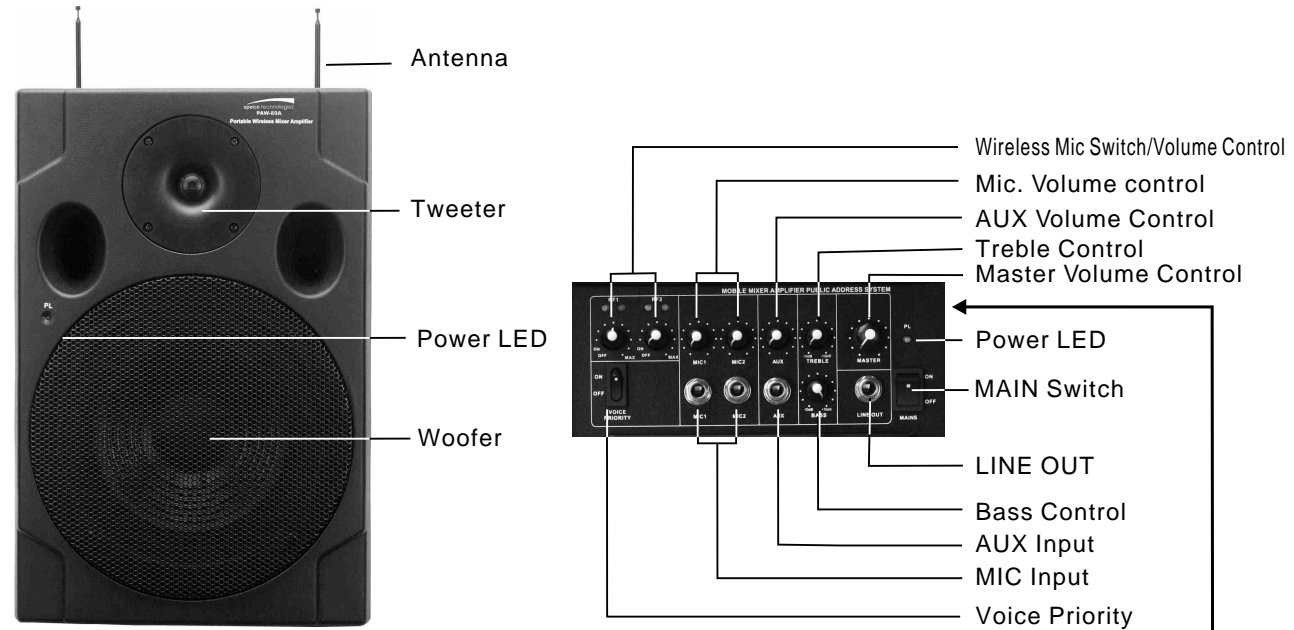
After DC POWER switch is turned on, the battery power meter starts to work. It shows the voltage range 9.5V~13V. When the battery voltage is below 9.5V. The battery power meter lights off. If only the red LED lights up, this means the battery voltage is 9.5V. If the green LED on the top lights up, the battery voltage is 13V.

Note: 1. When the built-in battery is used, if only the red LED lights up, recharge the battery in time in case of battery damage.

2. If AC power is available, use AC first to lengthen the battery life.

3. DESCRIPTION OF VARIOUS PARTS

(1)WDA-282D



(3)WDA-282UD

