

INSTRUCTION MANUAL

PWM-30M

6 BAND PARAMETRIC EQUALIZER

PWM-30M

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IMPORTANT INFORMATION

Thank you for purchasing the PWM-30M6 band parametric equalizer. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

BEFORE USE

* For safety

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.
- To prevent short circuits, never put or insert any metallic (e.g., Coins or metal tools) objects inside the unit.

* Temperature inside the car...

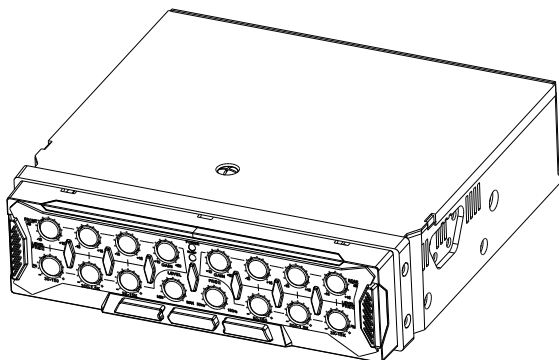
If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

For customer Use:

Enter below the Model Number and Serial Number which are located on the top or bottom of the cabinet. Retain this information for future reference.

Model Number: _____ **Serial Number:** _____

INTRODUCTION



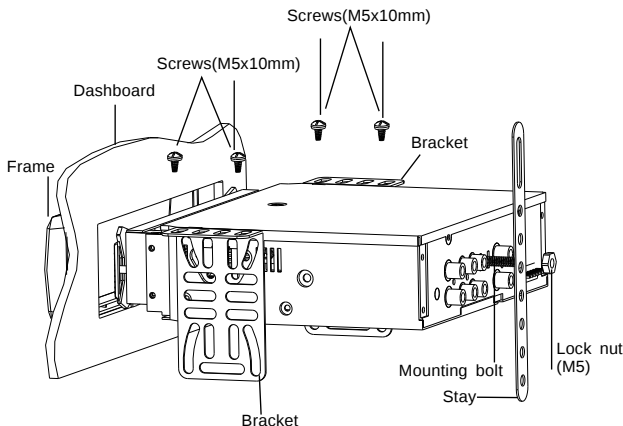
FEATURES:

- 6 BAND PARAMETRIC EQUALIZER WITH 4 CHANNEL OUTPUT
- IN-DASH DIN SIZE: EASY COMPOUND WITH OTHER HEAD-UNIT TO A 2-DIN SIZE SYSTEM
- MOTORIZED HIDDEN ADJUST BUTTONS
- X-BREATH DUAL-COLOR INTELECTIVE ILLUMINATION
- FRONT/REAR SEPARATE EQUALIZER ADJUSTMENT
- FRONT/REAR SEPARATE GAIN ADJUSTMENT
- SUB-WOOFER PRE-OUT & CONTROLLER (FREQ. & GAIN)
- AUTOMATIC POWER SWITCH
- GOLD PLATED INPUT / OUTPUT SOCKETS
- BALANCED HIGH / LOW LEVEL INPUT
- NIGHT ILLUMINATION

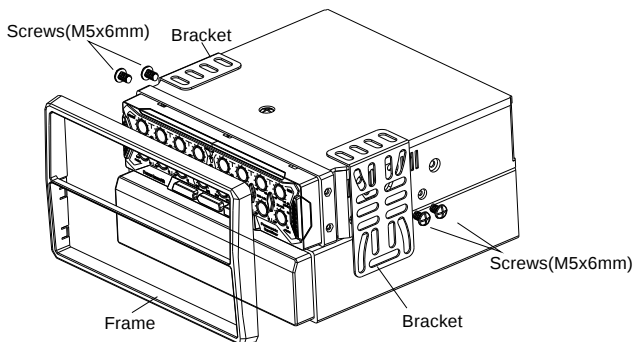
INSTALLATION

The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your car audio dealer or a company supplying kits.

1 In-dash single mounting



2 Compound with other head-unit to a 2-din size system

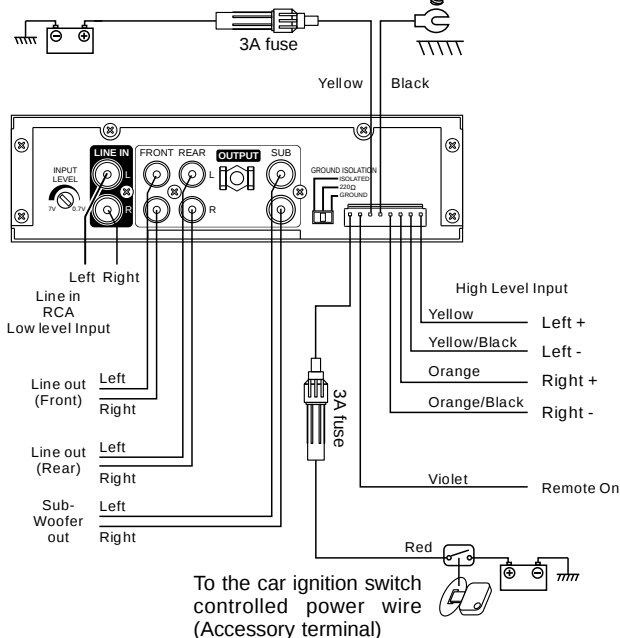


ELECTRONIC CONNECTIONS

1 Typical Connections

To the positive terminal of the car battery
(bypassing the ignition switch)

To metallic body or
chassis of the car



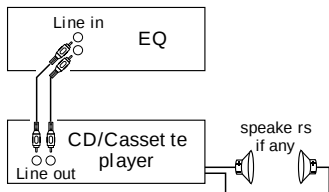
2 Connection to your CD/Cassette player

- 1 Connect this unit's Remote On lead to your head player's remote lead if any (such as auto antenna lead), so this unit's power can be controlled through the head player. If there is no suitable lead from your audio source equipment, connect to the car ignition switch controlled power wire (Accessory terminal).

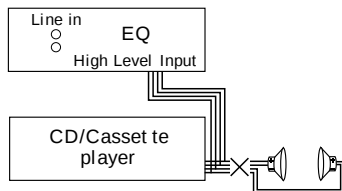
Note: For some models of head players, the auto antenna lead only works in radio receiving mode.

ELECTRONIC CONNECTIONS

- ② If your head player provides RCA type line out, connect them to this unit's Line In socket.

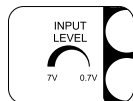


If your head player does not provide RCA type line out, then disconnect the head player's speaker leads, connect them to this unit's High Level Input leads.

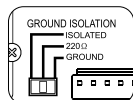


Note: Do not use this unit's low level and high level input together.

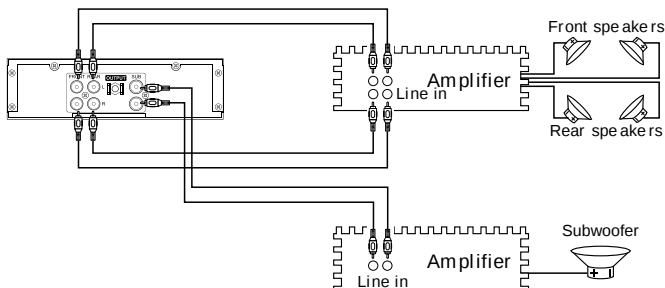
- ③ Adjust the INPUT LEVEL to meet your source unit's output level. Turn clockwise when your head player has a normal level output; turn counter-clockwise if your head player has high level preamp output.



- ④ Occasionally alternator noise may appear because the source unit and amplifier may use different grounding. To help in this situation, you may select the GROUND ISOLATION switch to a proper position.

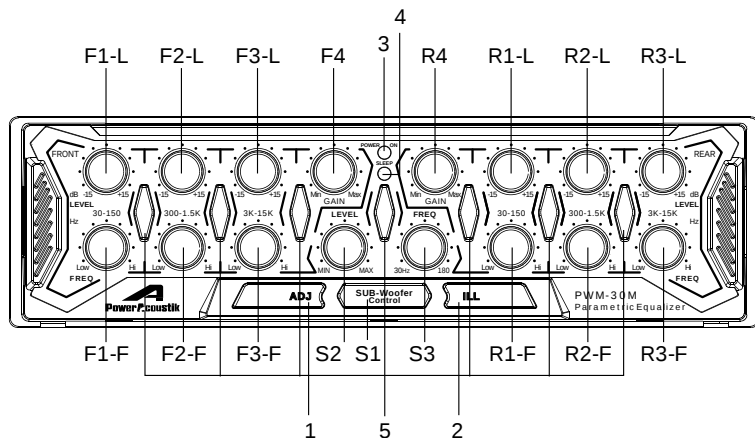


3 Connection to Subwoofer and external amplifier



Note: No low-pass filter is required for the subwoofer amplifier.

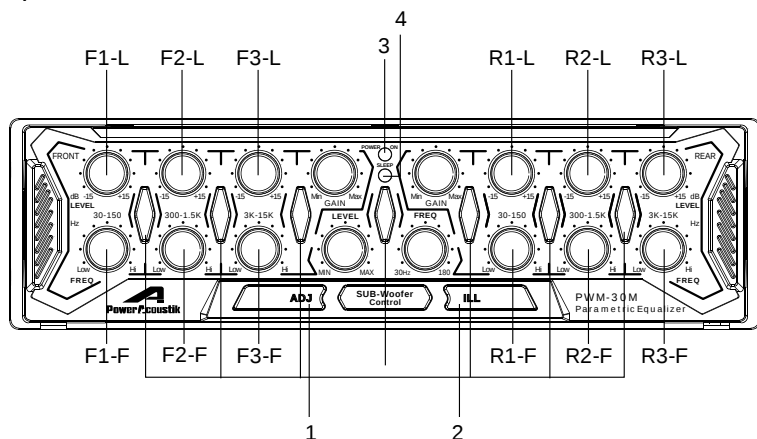
LOCATION OF THE BUTTONS



- F1-L Front Band 1 Level Adjust Button
- F2-L Front Band 2 Level Adjust Button
- F3-L Front Band 3 Level Adjust Button
- F1-F Front Band 1 Frequency Adjust Button
- F2-F Front Band 2 Frequency Adjust Button
- F3-F Front Band 3 Frequency Adjust Button
- F4 Front Gain Adjust Button
- R1-L Rear Band 1 Level Adjust Button
- R2-L Rear Band 2 Level Adjust Button
- R3-L Rear Band 3 Level Adjust Button
- R1-F Rear Band 1 Frequency Adjust Button
- R2-F Rear Band 2 Frequency Adjust Button
- R3-F Rear Band 3 Frequency Adjust Button
- R4 Rear Gain Adjust Button

- S-1 SUB-Woofer Control Button
- S-2 Subwoofer Level Adjust Button
- S-3 Subwoofer Frequency Adjust Button
- 1 Adjust Buttons Position Switch
- 2 Illumination Switch
- 3 Power Indicator
- 4 Sleep Indicator
- 5 Subwoofer On/Off Switch

Operations



1 Turn On/Off the unit

When you connect the Remote On lead, the unit will be turned automatically on/off following the audio source equipment.

2 Adjust Buttons Position Switch

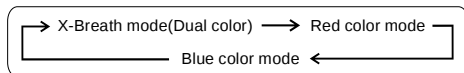
Press the 1 (Adjust Buttons Position Switch) button, the Adjust buttons move forward for further adjustment. Press the 1 (Adjust Buttons Position Switch) button again, the Adjust buttons move back to the normal position to prevent accidental adjustment.

When the unit turned off, the Adjust buttons move back to the normal position automatically.

3 Illumination Switch

■ The unit is in Power On Status:

Press the 2 (Illumination Switch) button, the illumination modes change as follows:



■ The unit is in Power Off Status:

Press the 2 (Illumination Switch) button, you can turn off the X-breath illumination.

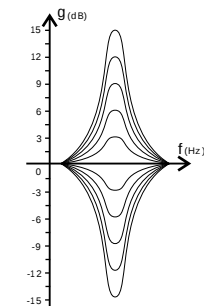
4 Power Indicator

When the unit turned on, the 3 (power indicator) indicator lights up.

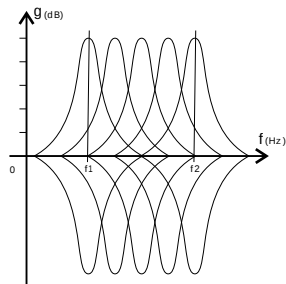
5 Front Equalizer Level & Frequency Adjustment

Adjust F1-L, F2-L, F3-L buttons to change the equalizer level of each band.

Adjust F1-F, F2-F, F3-F buttons to change the equalizer center frequency of each band.



LEVEL ADJUST CURVE

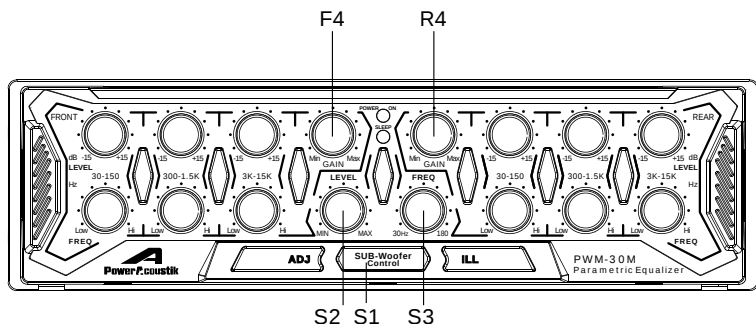


CENTER FREQUENCY ADJUST CURVE

6 Rear Equalizer Level & Frequency Adjustment

Adjust R1-L, R2-L, R3-L buttons to change the equalizer level of each band.

Adjust R1-F, R2-F, R3-F buttons to change the equalizer center frequency of each band.



7 (Front Channel) Gain Control

Adjusting F4 (Front Gain Adjust) button can change the front channel amplifier gain level to fit your system input and output level demand.

8 (Rear Channel) Gain Control

Adjusting R4 (Rear Gain Adjust) button can change the rear channel amplifier gain level to fit your system input and output level demand.

9 SUB-woofer Control

- Press the S1 (SUB-woofer Control) button to turn on /off the SUB-woofer output.
- Adjust the S2 (SUB-woofer Level) button to change the SUB-woofer gain level
- Adjust the S2 (SUB-woofer Level) button to change the SUB-woofer cut-off frequency.

TROUBLESHOOTING

What appears to be trouble is not always serious. Check the following points before calling a service center.

Symptoms	Indication			Causes	Remedies
	Power LED	Sleep LED	Illumination		
The unit does not work at all.	Off	Off	Off	No power supplied	Check the fuse and wiring to the battery.
No sound from the speaker	Off	On	Slowly Blue Glow	Sleep mode	Check the connection and the +12volts power of REM.On.
	On	Off	Off	Incorrect gain setting	Check your front & rear gain settings.
	On	Off	Off	No input	Check your source's volume, input cord.

SPECIFICATIONS

AUDIO SECTION

S/N Ratio (Rated Power, 1KHz)	100dB
Distortion	0.01%
Separation (Rated Power, 1KHz)	100dB
FREQ. Response (1KHz=0dB, +/-2dB)	10Hz-35KHz
RCA Input Level	0.7-7V
RCA Input Impedance	20K Ω
HI-Level Input Level	5V
HI-Level Input Impedance	100 Ω
Gain	20dB
Line Out Level (RMS.)	7V
Line Out Impedance	1K Ω
SUB-WOOFER Output Level	6V
SUB-WOOFER Output Cut-off FREQ.	30Hz - 180Hz
EQ Control Range	+/- 15dB

GENERAL SECTION

Power Source	9V-15V
Ground System	NEGATIVE GROUND
MAX Current	1A
Weight	1.25Kg
Dimensions (W x H x D)	178x50x180mm

Design and specifications subject to change without notice.