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## Peavey 6505MH

# Peavey 6505 MH Mini-Compact Tube Guitar Amplifier Head User Manual

Model: 6505MH

## INTRODUCTION

The Peavey 6505 MH is a mini-compact tube amplifier head designed to deliver the legendary tone of the 6505 series in a portable format. This amplifier features 2x EL84 power tubes and 3x 12AX7/ECC83 preamp tubes, offering versatile sound for various musical styles. It includes modern features such as a Tube Status Indication (T.S.I.) circuit, Mic Simulated Direct Interface (MSDI), USB output, and a speaker defeat switch for flexible use in practice, recording, and live performance.

## SAFETY INFORMATION

- **High Voltage:** This product contains high voltage components. Do not attempt to service the unit yourself. Refer all servicing to qualified service personnel.
- **Power Source:** Connect the amplifier only to the specified power supply voltage as indicated on the unit. Ensure the power cord is undamaged.
- **Ventilation:** Ensure adequate ventilation around the amplifier to prevent overheating. Do not block ventilation openings.
- **Moisture:** Do not expose the unit to rain or moisture. Avoid placing objects filled with liquids on the amplifier.
- **Grounding:** Always connect the amplifier to a grounded power outlet.
- **Speaker Connection:** Always connect the amplifier to a speaker cabinet of the correct impedance before powering on. Operating without a load or with an incorrect load can damage the amplifier.

## PACKAGE CONTENTS

Upon unpacking, verify that the following items are included:

- Peavey 6505 MH MiniHead Amplifier
- Footswitch
- Power Cable
- User Manual (this document)

## SETUP

### 1. Connecting to a Speaker Cabinet

The 6505 MH features an impedance switch on the rear panel, allowing selection between 8 or 16 ohm cabinets. Ensure the switch matches the impedance of your speaker cabinet. Always connect a speaker cabinet to the "SPEAKER" output before powering on the amplifier. Operating the amplifier without a proper speaker load can cause damage.



*Image: Rear panel of the Peavey 6505 MH amplifier. This view highlights the various input and output jacks, including the speaker output, impedance switch, MSDI, effects loop, and USB port.*

### 2. Power Connection

Connect the supplied power cable to the IEC inlet on the rear panel and then to a grounded electrical outlet. The amplifier supports 115V and 220-230V operation, selectable via a switch next to the power inlet. Ensure the voltage selector is set correctly for your region.

### 3. Footswitch Connection

Connect the included footswitch to the "FOOTSWITCH" jack on the rear panel. This allows remote control of channel switching, crunch mode, and reverb.

## OPERATING INSTRUCTIONS

### Front Panel Controls



Image: Front panel of the Peavey 6505 MH amplifier. This image displays the input jack, channel select switch, pre-gain controls, equalization knobs, post-gain controls, reverb, resonance, presence, and power switches.

- **Input:** Standard 1/4" input for your guitar.
- **Channel Select:** Toggles between the Rhythm and Lead channels. Can also be controlled via footswitch.
- **Pre-Gain (Rhythm/Lead):** Controls the input gain for each channel, affecting distortion and sustain.
- **Crunch (Rhythm Channel):** A footswitchable feature on the Rhythm channel that adds an additional gain stage for a crunchier tone.
- **Equalization (Low, Mid, High):** Shared 3-band EQ for both channels to shape the tone.
- **Post-Gain (Rhythm/Lead):** Controls the output volume for each channel.
- **Reverb:** Adjusts the amount of built-in digital reverb. Footswitchable.
- **Resonance:** Controls the damping factor of the power amplifier, affecting low-end response.
- **Presence:** Controls the damping factor of the power amplifier, affecting high-end response.
- **Standby Switch:** Places the amplifier in standby mode, keeping the tubes warm without signal amplification. Always use this switch when taking short breaks.
- **Power Switch:** Turns the amplifier on or off.
- **T.S.I. (Tube Status Indication):** LEDs indicate the health of the power tubes. Green indicates normal operation, while red indicates a tube issue.

## Rear Panel Features



Image: Rear panel of the Peavey 6505 MH amplifier. This view highlights the various input and output jacks, including the speaker output, impedance switch, MSDI, effects loop, and USB port.

- Attenuator Switch (20W, 5W, 1W):** Selects the output power level, allowing for lower volume operation while maintaining tube saturation.
- Speaker Defeat Switch:** Disables the speaker output, useful for silent practice with headphones or direct recording via MSDI/USB without a speaker cabinet connected.
- MSDI Output (Mic Simulated Direct Interface):** XLR output with ground lift switch for direct connection to a mixing console or audio interface. Provides a mic-simulated signal.
- USB Output:** Connects to a computer for direct recording.
- Effects Loop (Send/Return):** Allows connection of external effects pedals or processors after the preamp section and before the power amp.

## Powering On and Off Sequence

1. Ensure a speaker cabinet is connected (unless using speaker defeat).
2. Flip the Power switch to the ON position.
3. Wait approximately 30-60 seconds for the tubes to warm up.
4. Flip the Standby switch to the ON position. The amplifier is now ready for use.
5. To power off, first flip the Standby switch to the OFF position.
6. Wait a few seconds, then flip the Power switch to the OFF position.

## MAINTENANCE

### Tube Replacement

The Peavey 6505 MH uses 2x EL84 power tubes and 3x 12AX7/ECC83 preamp tubes. The T.S.I. circuit provides an indication of power tube health. If a T.S.I. LED turns red, it indicates a potential issue with the corresponding power tube. Tube replacement should be performed by qualified service personnel to ensure proper biasing and safe operation. Always use high-quality replacement tubes.

### Cleaning

Clean the exterior of the amplifier with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the amplifier is unplugged before cleaning.

## Ventilation

Ensure the amplifier's ventilation grilles are clear of obstructions to allow for proper airflow. Overheating can reduce the lifespan of components, especially tubes.

## TROUBLESHOOTING

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- **No Sound:**

- Check all cable connections (guitar, speaker, power).
- Ensure the Power and Standby switches are both in the ON position.
- Verify the Attenuator switch is not set to an extremely low volume or the Speaker Defeat switch is not engaged unintentionally.
- Check the T.S.I. LEDs for any red indications, suggesting a faulty power tube.

- **Poor Tone/Weak Output:**

- Inspect tubes for visible damage or microphonics.
- Ensure EQ settings are not extreme.
- Check speaker cabinet impedance match.

- **Overheating:**

- Ensure adequate ventilation around the amplifier.
- Avoid operating in direct sunlight or enclosed spaces.
- If persistent, this may indicate a bias issue or component failure, requiring professional service.

- **Footswitch Not Working:**

- Ensure the footswitch cable is securely connected.
- Test the functions manually using the front panel switches to isolate the issue.

For issues not resolved by these steps, contact Peavey customer support or a qualified service technician.

## SPECIFICATIONS

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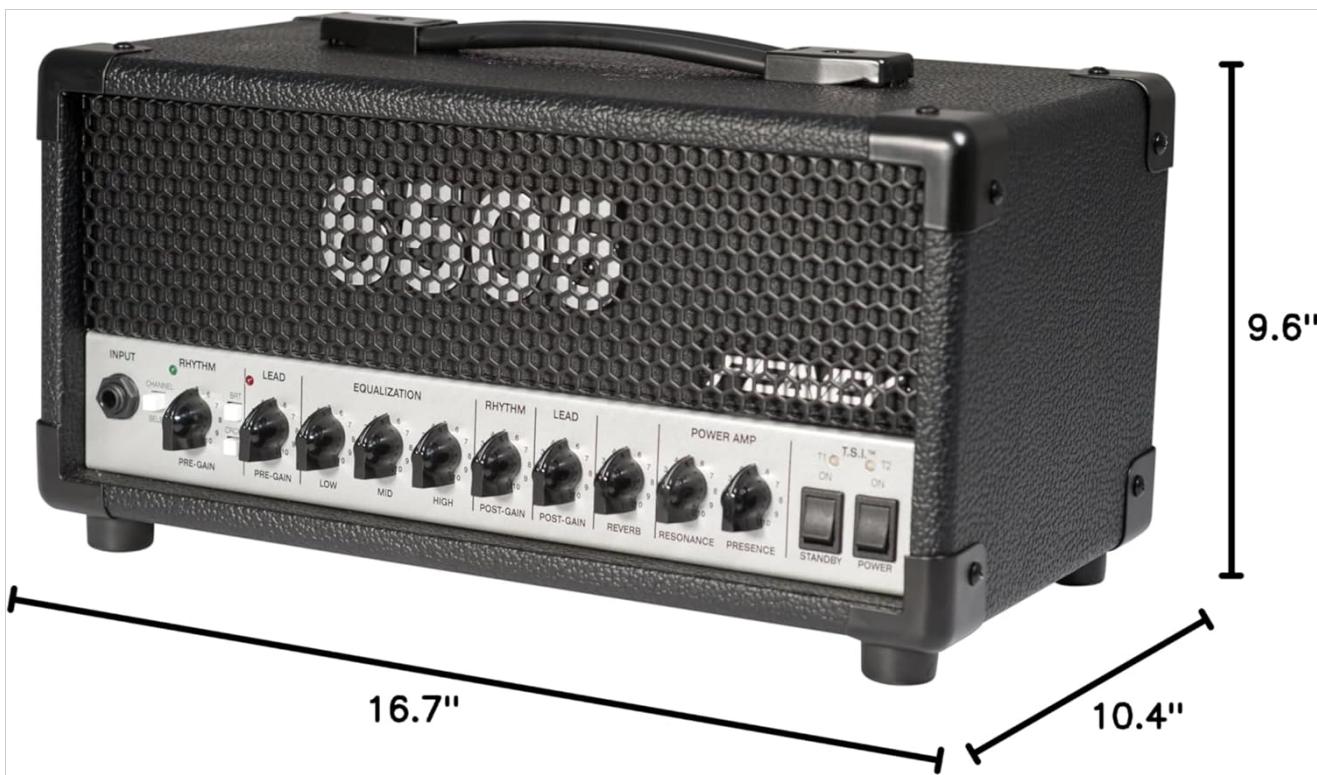


Image: Dimensions of the Peavey 6505 MH amplifier. The image shows the amplifier with its width (16.7 inches), depth (10.4 inches), and height (9.6 inches) clearly marked.

Feature	Detail
<b>Model Number</b>	6505MH
<b>Tube Configuration</b>	2x EL84 (Power), 3x 12AX7/ECC83 (Preamp)
<b>Output Wattage</b>	20W, 5W, 1W (selectable)
<b>Channels</b>	Rhythm, Lead (footswitchable)
<b>Equalization</b>	Shared 3-band (Low, Mid, High)
<b>Effects</b>	Reverb (footswitchable), Buffered Effects Loop
<b>Direct Output</b>	MSDI (XLR with ground lift), USB Output
<b>Speaker Output Impedance</b>	8 or 16 ohms (selectable)
<b>Special Features</b>	Tube Status Indication (T.S.I.), Speaker Defeat Switch, Footswitch Included
<b>Dimensions (W x D x H)</b>	16.7 x 10.4 x 9.6 inches (approximate)
<b>Weight</b>	15 pounds (approximate)

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Peavey website or contact Peavey customer service directly. Keep your proof of purchase for warranty claims. Do not attempt to repair the unit yourself, as this may void your warranty and expose you to electrical hazards.

For further assistance, visit: [Peavey Support](#)

## Related Documents - 6505MH

	<p><a href="#">Peavey Bandit 112 TransTube Series Guitar Amplifier User Manual</a></p> <p>Comprehensive user manual for the Peavey Bandit 112 TransTube Series guitar amplifier, detailing front and back panel features, specifications, tone settings, and safety instructions. Features Peavey's TransTube technology for authentic tube tone.</p>
	<p><a href="#">Peavey Bandit 112 Guitar Amplifier Operating Guide</a></p> <p>Comprehensive operating guide for the Peavey Bandit 112 guitar amplifier, covering front panel controls, rear panel connections, specifications, tone settings, and safety information.</p>
	<p><a href="#">Peavey 5150 II Tube Guitar Amplifier - Operating Guide</a></p> <p>Comprehensive operating guide for the Peavey 5150 II Tube Guitar Amplifier, detailing its features, specifications, controls, hookup diagrams, recommended settings, and warranty information. Covers safety precautions and technical details for musicians.</p>
	<p><a href="#">Peavey Backstage Chorus 208 Guitar Amplifier Operating Manual</a></p> <p>Comprehensive operating manual for the Peavey Backstage Chorus 208 single unit guitar amplifier. Includes detailed descriptions of front panel controls, rear panel connections, technical specifications, tone setting examples, signal path diagram, important safety instructions, and limited warranty information.</p>
	<p><a href="#">Peavey Vypyr X Series Guitar Amplifier Operating Manual</a></p> <p>Comprehensive operating manual for the Peavey Vypyr X Series amplifiers (X1, X2, X3), detailing features, controls, effects, amp models, connectivity, and specifications.</p>
	<p><a href="#">Peavey Backstage Chorus 208 Guitar Amplifier User Manual</a></p> <p>User manual and specifications for the Peavey Backstage Chorus 208 single unit guitar amplifier, detailing controls, features, and safety instructions.</p>