

GLADIVS

TUBE AMPLIFIER FOR GUITAR

Model JTM65 Mk V, JTM66 Mk V, JTM67 Mk V, JTM68 Mk V

USER MANUAL

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Congratulations on your purchase of the Gladius JTM6x and thank you for the trust you have placed in us. To ensure trouble free enjoyment we highly recommend that you thoroughly read this manual before using your new GLADIVS amplifier for the first time.

Please keep these instructions for future reference.

Security Information

Please read these operating instructions carefully before using the amplifier for the first time.

REMOVAL AND INSERT

Always unplug the unit when not in use. Always unplug the power cord by the plug not by the cord, pulling on the cord can cause damage that can lead to a fire hazard or electrical shocks.

DO NOT TOUCH THE PLUG WITH WET HANDS

Plugging or unplugging the amplifier with wet hands can result in an electric shock.

MAINS VOLTAGE

Pay attention to the specified voltage values. Using the wrong mains voltage can lead to malfunctions, fire or electric shock.

CABLE PROTECTION

Protect the cables from mechanical stress (squeezing, pulling) and from moisture. Damaged cables may lead to fire or short circuits.

ADVERSE WEATHER CONDITIONS

Do not operate the amplifier in high humidity, not outdoors during heavy rain or thunderstorms.

AMBIENT CONDITIONS

Do NOT operate the amplifier in high humidity.

REPAIRS

Never override the fuses and never replace them with values other than those specified.

Repairs, including the replacement of defective fuses, should only be carried out by qualified personnel.

Unauthorized changes, which have not been expressly approved by the manufacturer Gladius Amps, forfeit the right of the owner to operate the device.

HAZARDOUS SITUATION

If you notice any abnormal phenomena such as smoke, noise or odors, immediately turn off the power and unplug the power cord from the power supply. Then please contact qualified personnel. Continued operation can be hazardous and cause a fire or electric shock. This also applies to cases where the device has been exposed to rain or moisture, foreign objects or liquids have entered the amplifier and must be removed, the amplifier has fallen to the ground, or generally does not work properly.

Security Information (continued)

DO NOT OPEN THE CASE

CAUTION: Never open your equipment yourself. There are no user serviceable parts inside. Therefore we strongly advise not to open the unit yourself. Opening a unit is only allowed to trained and qualified service engineers, who are fully aware of the fact that it can be dangerous to service a mains powered unit.

- Always earth the unit. –

EXTRANEIOUS OBJECTS

Please do not insert solid objects or liquid materials into the amplifier. In the case of an accident, please turn the unit off immediately and disconnect the power cable. Then, please contact qualified personnel. If an object is inside the unit, it may cause a fire, short circuit, or other damage.

Never place containers with liquids (eg beverages) on the amplifier. Failure to do so may result in fire or electric shock.

POSITIONING OF THE DEVICE

Place the amplifier on a safe and stable support.

Please do not place heavy objects on the amplifier and make sure that the cables are laid so that no one can stumble over them and injure themselves.

VENTILATION REQUIREMENTS

The ventilation slots should provide adequate ventilation. Make sure that you do not obscure the ventilation slots of the amplifier, since there is a risk of fire. To ensure adequate ventilation, leave at least 10 cm of space between the amplifier and the wall.

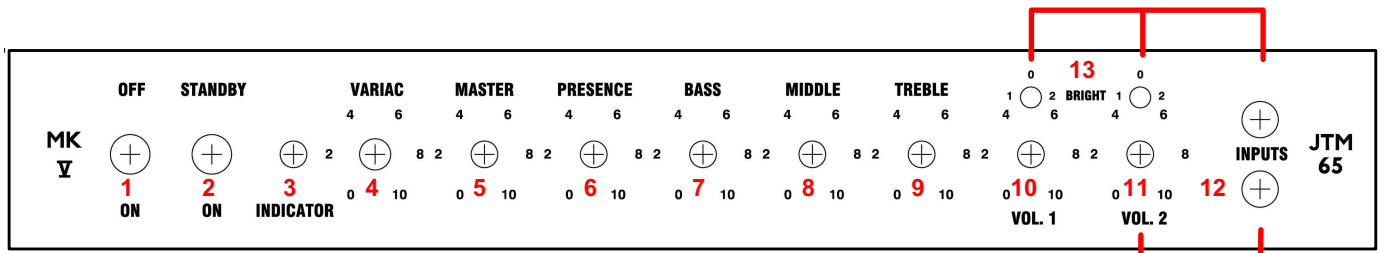
DETACH THE CABLES BEFORE REMOVING THE AMPLIFIER

If you want to transport the amplifier, switch it off and disconnect the power, instrumentation and loudspeaker cables from the unit. Failure to remove the cables could result in fire or short circuit.

UNPLUG THE AMPLIFIER

If you do not use the amplifier for an extended period of time, we advise you to disconnect the device from the power supply in order to avoid accidental hazards.

Front Panel Controls



Power Supply

- (1) Mains Switch ON - OFF

Attention! When the mains switch is switched on, the STANDBY switch must not be set to ON to avoid damage to the tubes!

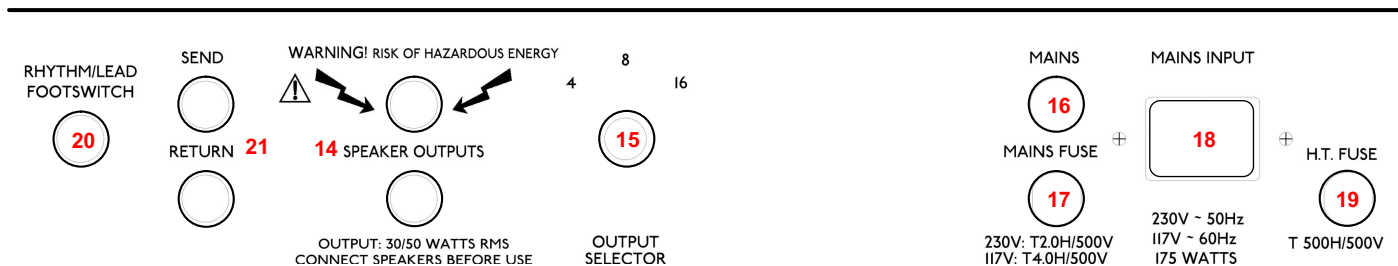
- (2) STANDBY: Standby position, amplifier function switched off
ON: Amplifier active.
Switch the switch (2) to ON after approx. 2 minutes so that the tubes are preheated and ready for operation. Between sets, use the STANDBY switch instead of the mains switch to spare the tubes. Frequent heating and cooling shortens the life of the tubes and should be avoided.
- (3) INDICATOR: Signal lamp for mains and foot switch. With foot switch connected: Red - foot switch inactive, Green - foot switch active (except JTM65).

Amplifier

- (4) VARIAC - GLADIVS continuously variable output power control.
This power control is a special feature of the GLADIVS amplifiers, that enables you to play at low volume without noticeable loss of sound quality.
- (5) MASTER VOLUME: Adjustment of master volume
- (6) PRESENCE: Adjustment of presence.
- (7) BASS: continuous adjustment of the bass frequencies
- (8) MIDDLE: continuous adjustment of the middle frequencies.
- (9) TREBLE: continuous adjustment of the treble.
- (10) VOL. 1: continuous adjustment of volume with an accentuation of the treble frequencies.
- (11) VOL. 2: continuous adjustment of volume.
- (12) INPUTS - The upper instrument jack is connected to both channels. The lower Instrument jack is connected to NORMAL.
(If both inputs are in use at the same time, HIGH TREBLE and NORMAL are working separately.)
Tip: The inputs can be switched by using a separate A/B switch.

- (13) BRIGHT-SWITCH - These switches modify the treble frequencies in two different ways. Thus more modern, more assertive sounds are available.

Back Panel Controls



- (14) Speaker connection sockets

Attention! Speakers may be connected only when the amplifier is disconnected from the mains.

- (15) OUTPUT SELECTOR - Three-position loudspeaker impedance switch for outputs (13) Selectable impedance 4 Ω , 8 Ω and 16 Ω (JTM65: 8 Ω / 16 Ω).

- (16) MAINS - Selector for mains voltage 230 V~ or 117 V

Attention! Before changing the settings the amplifier must be disconnected from the mains and the required mains fuse must be inserted (see inscription) Turning on the amplifier with the wrong setting of the mains selector may cause heavy damage (q.v. security information).

- (17) MAINS FUSE

Attention! This fuse must not be replaced with a fuse of a different type, or be bridged!

- (18) MAINS INPUT - Mains connector socket 230 V~ , 117 V~ respectively

- (19) H.T. FUSE - High voltage fuse.

Attention! This fuse must not be replaced with a fuse of a different type, or be bridged!

- (20) FOOT SWITCH - Rhythm/Lead foot switch jack. (except JTM65)

- (21) Send/Return - Connector for effect devices (except JTM65)

Commissioning

Only operate the amplifier after it has adapted to the prevailing ambient temperature. Otherwise there is the danger of damage by condensation or by electric shock.

The amplifier may only be operated with connected loudspeakers. Always connect the speakers to the amplifier first before connecting the amplifier to the power supply. The loudspeaker impedance must be set with the output selector to the impedance of the speaker cabinet. The load capacity of the connected speaker cabinet (maximum power handling) must be at least as high as the output power of the amplifier.

Either a single speaker cabinet or two cabinets can be connected. If two cabinets are operated at the same time, both must have the same impedance and the output selector must be set to half the impedance. The power handling capacity of each of the two cabinets must be at least half the output power of the amplifier.

IMPORTANT NOTE: Never operate the amplifier without a sufficient load, otherwise you may damage or destroy the power amp! Ensure your cabinet's specifications match the respective output's specs as noted below.

Example

1 speaker cabinet with 16 Ω and 50 W is connected to an amplifier with 18 W output power
--> Set the output selector to 16 Ω on the amplifier.

2 speaker cabinets with 8 Ω and 50 W are connected to an amplifier with 18 W output power.
--> Set output selector to 4 Ω at the amplifier.

2 speaker cabinets with 16 Ω and 50 W are connected to an amplifier with 18 W output power.
--> Set output selector to 8 Ω at the amplifier.

Plug the speaker cable into the speaker cabinet before plugging it into the amplifier to prevent the speaker connection from being forgotten (else the valves of the power amp could be damaged).

Make sure that the STANDBY switch is set to STANDBY before the power switch is turned on. Wait approximately two minutes after turning on before setting the switch to the ON position. The power valves must reach the appropriate temperature before use.

General Product Description

The JTM6x models are classic tube amplifiers featuring different design details like output transformers and power tubes.

The amplifiers are hand wired and has an aluminium chassis with aluminium end-blocks.

Both channels are internally connected. This allows for using both volume controls together without an external patch cable.

In addition the amplifiers are equipped with the GLADIVS output power control, which allows to play at greatly reduced volume and without noticable sound losses.

Rhythm and lead circuit via foot switch, function indicated by the front panel signal lamp (not applicable to model JTM65). The foot switch can be used to switch between reduced (rhythm) and full gain (lead). Without a foot switch, the full gain (lead) is available.

Effect loop jacks on the rear panel for connecting effects such as echo or reverb. (Except JTM65)

JTM65 Mk V

The JTM 65 is offering a classic bold vintage sound that is covering everything from blues to blues rock, like, for example, early Eric Clapton or Mark Knopfler.

JTM66 Mk V

Having some more gain than the JTM 65, the JTM66 is the classic blues rock amp.

JTM67 Mk V

The JTM 67 Mk IV has the right gain for a typical rock guitar player. Even with the EL34 output stage, the sound remains always bold, round and dynamic.

JTM68 Mk V

Vintage-setting (all controls in the middle position):

With this setting the full vintage sound of 1968 comes alive. Extremely bold, round and dynamic with lots of dirt, just like Billy Gibbons, Jimi Hendrix, Jeff Beck.

Classic-setting (Bass to 0, all other controls fully on):

With this setting you get a tighter open sound, with less vintage character. Its explosive attack is always well defined without getting harsh or overly aggressive. Examples: Eddie Van Halen, Joe Bonamassa or Slash.

Specifications

Model JTM65 Mk V

Type:	Class AB
Output power	< 0.1 W - 30 W
Power amp:	2x KT88
Preamp:	3x ECC83
Rectifier:	GZ34
Output transformer:	RS Deluxe
Inputs:	Hi & Lo (each with gain patch for both channels)
Input Controls	Presence, Bass, Middle, Treble, Volume, Bright Switch
Speaker connectors:	2
Speaker impedance:	8 / 16 Ω switchable
Output Power Control:	Continuously variable
Colour:	Black
Mains voltage:	117 V~ / 230 V~ 45-60 Hz
Power consumption:	175 VA max.
Weight:	15 kg
Dimensions:	WxDxH 53x22x23 cm
Special features:	Integrated channel bridge, GLADIVS output power control, Master Volume, Bright Switch with two sound enhancements.

Specifications

Model JTM66 Mk V

Type:	Class AB
Output power	< 0.1 W - 30 W
Power amp:	2x KT88
Preamp:	3x ECC83
Rectifier:	GZ34
Output transformer:	784-103
Inputs:	Hi & Lo (each with gain patch for both channels)
Input Controls	Presence, Bass, Middle, Treble, Volume, Bright Switch
Speaker connectors:	2
Speaker impedance:	4 / 8 / 16 Ω switchable
Output Power Control:	Continuously variable
Colour:	Black
Mains voltage:	117 V~ / 230 V~ 45-60 Hz
Power consumption:	175 VA max.
Weight:	15 kg
Dimensions:	WxDxH 53x22x23 cm
Special features:	Integrated channel bridge, GLADIVS output power control, Master Volume, Bright Switch with two sound enhancements. Rhythm & Lead circuit with foot switch connector on the back panel Connector for effect devices on the back panel

Specifications

Model JTM67 Mk V

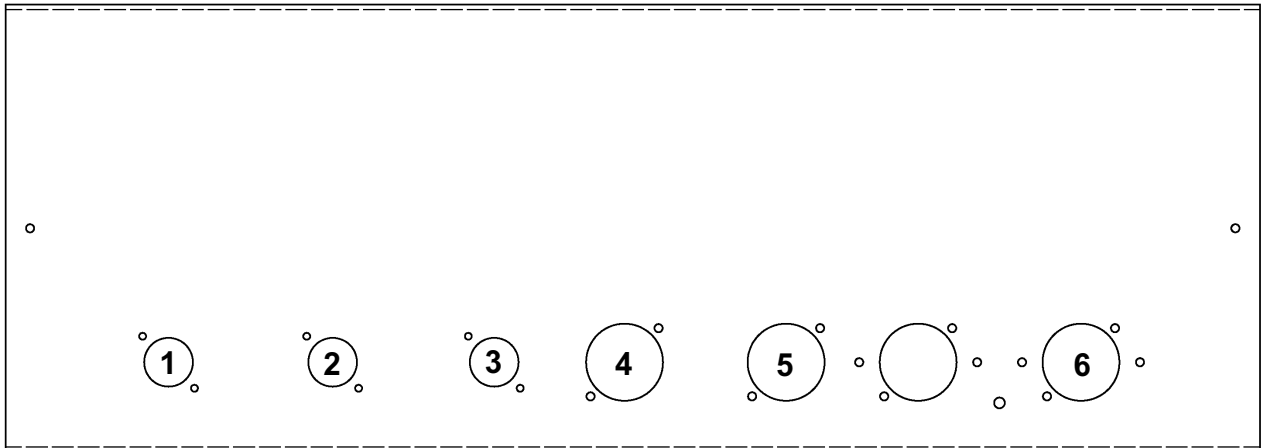
Type:	Class AB
Output power	< 0.1 W - 30 W
Power amp:	2x EL34
Preamp:	3x ECC83
Rectifier:	GZ34
Output transformer:	784-128
Inputs:	Hi & Lo (each with gain patch for both channels)
Input Controls	Presence, Bass, Middle, Treble, Volume, Bright Switch
Speaker connectors:	2
Speaker impedance:	4 / 8 / 16 Ω switchable
Output Power Control:	Continuously variable
Colour:	Black
Mains voltage:	117 V~ / 230 V~ 45-60 Hz
Power consumption:	175 VA max.
Weight:	15 kg
Dimensions:	WxDxH 53x22x23 cm
Special features:	Integrated channel bridge, GLADIVS output power control, Master Volume, Bright Switch with two sound enhancements. Rhythm & Lead circuit with foot switch connector on the back panel Connector for effect devices on the back panel

Specifications

Model JTM68 Mk V

Type:	Class AB
Output power	< 0.1 W - 50 W
Power amp:	2x EL34
Preamp:	3x ECC83
Rectifier:	Solid-state
Output transformer:	784-139
Inputs:	Hi & Lo (each with gain patch for both channels)
Input Controls	Presence, Bass, Middle, Treble, Volume, Bright Switch
Speaker connectors:	2
Speaker impedance:	4 / 8 / 16 Ω switchable
Output Power Control:	Continuously variable
Colour:	Black
Mains voltage:	117 V~ / 230 V~ 45-60 Hz
Power consumption:	175 VA max.
Weight:	15 kg
Dimensions:	WxDxH 53x22x23 cm
Special features:	Integrated channel bridge, GLADIVS output power control, Master Volume, Bright Switch with two sound enhancements. Rhythm & Lead circuit with foot switch connector on the back panel Connector for effect devices on the back panel

Valves



JTM65 / JTM66

- 1) ECC83 / 12AX7A
- 2) ECC83 / 12AX7
- 3) ECC83 / 12AX7
- 4) KT88
- 5) KT88
- 6) GZ34

JTM67

- 1) ECC83 / 12AX7A
- 2) ECC83 / 12AX7
- 3) ECC83 / 12AX7
- 4) EL34
- 5) EL34
- 6) GZ34

JTM68

- 1) ECC83 / 12AX7A
- 2) ECC83 / 12AX7
- 3) ECC83 / 12AX7
- 4) EL34
- 5) EL34
- 6) n/a

Important! All models: 4) and 5) must be matched and measured!

Appendix

EC/EU Declaration of Conformity

GLADIUS

Document: CE – JTM6XMK5

Manufacturer: Gladiusamps
Schloßstraße 12, 86732 Oettingen i. Bay.
GERMANY

We declare that the designated product(s)

JTM65 MK V
JTM66 MK V
JTM67 MK V
JTM68 MK V

are in conformity with the European Directives:

2014/30/EU EMC Directive of 26 February 2014

2011/65/EU RoHS Directive of 8 June 2011

2014/35/EU Electrical equipment designed for use within certain voltage limits

This declaration certifies compliance with the indicated directives but implies no warranty of properties. The safety instructions of the accompanying documentation shall be observed.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Issuer: Gladiusamps
Schloßstraße 12
86732 Oettingen i. Bay.
GERMANY

Place, date: Oettingen, 04.04.2023

**Legally binding
signature**



Sočnik CEO

GLADIUSAmps

Schloßstraße 12, 86732 Oettingen i. Bay. Germany