

ENGL

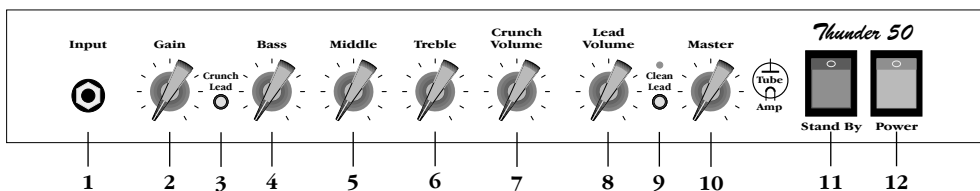


Thunder 50
Guitar-Amplifier
Operator's Manual

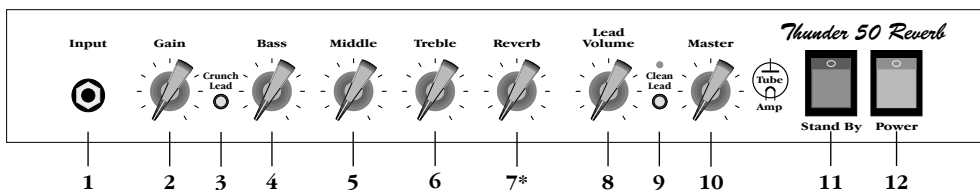
Please, first read this manual carefully!

ENGL Thunder 50 - is an all-tube guitar amp, fully loaded with all key features. Next to its sonic qualities, the beauty of this amp is rooted in simplicity. With its uncluttered, sensibly arrayed control features, the Thunder comes complete with everything you need to dial in first-class sound. Handling couldn't be easier. With the Thunder, what you see is truly what you get—great looks, great sound. The latest in a line of class amps, the Thunder delivers that unmistakable ENGL sound—warm, creamy and extremely dynamic tube tone. This operating manual covers three different versions of the amp, the Thunder 50 Combo (model E322), the Thunder 50 Head (model E325) and the Thunder 50 Reverb (model E320), a Combo version equipped with a spring reverb. Quality components, excellent workmanship and strict quality control ensure this amp retains its value. You'll find guidelines on care and maintenance of tube amps on the last page of the manual. Please read and heed these before operating your amp. You'll also come across boxes shaded grey throughout the manual. These are located between the descriptions of the amp's functions and contain handy tips on the preceding function. All critical information pertaining to the operation of this amp is preceded by "NOTE" or "CAUTION." Please pay particular attention to these safety tips. The **ENGL** team wishes you all the best—may you and your amp enjoy a "harmonically rich" future together!

Front: Thunder 50, Type E322 & E325



Front: Thunder 50 Reverb, Type E320



1 Input

Input $\frac{1}{4}$ " unbalanced input. Plug your guitar cord in here.

2 Gain

Controls input sensitivity. Use this knob and the Master (10) control to adjust the volume of the Clean channel. For the Crunch and Lead channels, Gain controls the amount of preamp distortion.

TIP: Using different combinations of Gain, Master and channel Volume knob settings, you'll be able to come up with a vast range of great sounds for the three channels Clean, Crunch and Lead. Check out the diagram at the right to see our suggested Crunch channel Gain settings for the two most popular types of pick-ups.

3 Crunch / Lead

Channel selector pushbutton for Crunch and Lead modes in the Lead channel.

This function can also be activated via a footswitch (jack 15). Once a footpedal is connected, the channel selector pushbutton is deactivated.

CAUTION: Extremely high gain and volume levels in the Lead mode can produce strong feedback. Avoid feedback squeals, they lead to hearing loss and damaged speakers!

4 Bass

Bottom end voicing control.

5 Middle

Mid-range voicing control.

6 Treble

Upper range voicing control.

TIP: To get an idea of this amp's capabilities, we suggest you set the tone control pots Bass (4), Middle (5) and Treble (6) to the 12 o'clock position. For extremely soft lead, blues or jazz sounds, try setting the Treble knob to somewhere in the 8-to-11 o'clock range. For aggressive metal riffs or spanky funk sounds, go for something in the range of 11 to 3 o'clock.

7 Crunch Volume (Combo model E322 and Head model E325)

Volume control for the Crunch channel. Use this knob to adjust the balance of levels between the Crunch and Clean and Lead channels. Note: In the signal chain, this knob is located before the effects loop, meaning that it influences the send signal of the effects loop.

7* Reverb (Thunder 50 Reverb, Combo model E320 only)

This knob controls the amount of reverb. As you rotate the knob clockwise, the intensity of the reverb effect increases.

8 Lead Volume

Volume control for the Lead channel (and the Crunch channel at model E320). Use this knob to dial in the desired balance of levels between the Lead (& Crunch at model E320) and Clean channels.

Note: In the signal chain, this knob is located before the effects loop, meaning that it influences the send signal of the effects loop.

9 Clean / Lead

Channel selector pushbutton for Clean and Lead channels, red LED indicate Lead mode; This function can also be activated via a footswitch (jack 15). Once a footpedal is connected, the channel selector pushbutton is deactivated.

10 Master

Master volume control for power amp output.

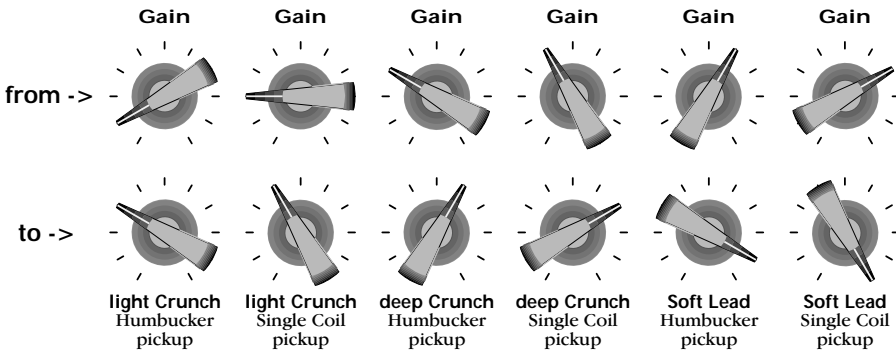
11 Stand By

Power amp standby switch: Use this switch to silence (0 position) the amp when you take a lengthier break. The amp's tubes stay warm, which means that it is ready to roll immediately when you switch it back to full power. The standby switch is also well-suited for muting the amp for brief breaks, for instance when you're switching guitars.

12 Power

AC power on/off.

Suggested Gain settings for the Crunch channel:



Remarks and Tips:

With the settings we've called "Light Crunch" and "Deep Crunch", you can exploit the entire spectrum of the amp's different channels. "Soft Lead" will roughen up the edges of the Clean channel sound by slightly saturating the preamp. When you activate it for the Lead channel, it generates what we've called "Ultra-Heavy Lead." We recommend that you avoid using this option when you're playing through the Lead channel at fairly high volumes. The noise level (hissing and humming) increases dramatically, as does the likelihood of feedback being generated by your guitar's pick-ups, loudspeaker and preamp. The "Soft Lead" option is only advisable if you generally don't require a heavy lead sound in the Lead channel. It's also helpful if you are accustomed to using your guitar's volume knob-along with the channel switches-to keep the sound of the Clean channel squeaky clean and control the amount of distortion in the Crunch channel. With this configuration, the power amp tends to distort even at low Master volume levels. This is an additional sound sculpting tool that distinguishes the Thunder. We highly recommend the "Light Crunch" setting if you have a serious joyness for classy vintage sounds. In this case, you'll have to turn up the Master knob to bring up the level of the Clean channel. Then use the Crunch channel Volume knob (types E322 and E325 only) and Lead channel volume knob to dial in the desired balance of levels between the Clean sound and Crunch and Lead sounds.