

THD Electronics, Ltd.



Handbuilt in the USA of US and imported components.

# Yellow Jackets™

1 Duet Tube Converters



includes EL84 Power Tubes

## Yellow Jackets™

- Contains One Pair of Yellow Jacket™ Converters Model YJS and Two EL84 Power Tubes.
- Converts most amplifiers with 6L6s, EL34s, 6550s or 6V6s to EL84s without modification or rebiasing.
- **Converts from Class AB to Class A operation!**
- Drops output power by 50% to 70%.
- Safe for all common amplifiers and transformers.
- One Year Limited Warranty on Converters.
- "The next best thing to getting yourself a new amp." - Guitar World Magazine
- "Increase amplifier flexibility"- Guitar Player Magazine



THD Electronics, Ltd.  
3510 6th Avenue W  
Seattle, WA 98119-1513  
Phone: 206.781.5500  
Fax: 206.781.5508  
info@thdelectronics.com  
www.thdelectronics.com

### **Thank You!**

Thank you for buying our Yellow Jacket™ Converters! They will provide you with years of service, assuming that you replace the tubes when they are worn, and will also give you a much greater variety of sounds from your amplifiers than you have ever experienced before.

### **How to Install Yellow Jackets:**

1. With your amplifier cold and turned off, remove the output tubes from their sockets. (Use a towel to protect your hands if the tubes are hot.)
2. Place the Yellow Jacket Converters in the output tube sockets and install the provided EL84 tubes into the Yellow Jackets™. Make sure that all pins are properly aligned and do not force anything. It should all go smoothly if the tube pins are properly aligned.
3. Turn the amp on, let it warm up, and play. Your amp is now running in Class A Mode with EL84 output tubes.

You do not have to adjust the bias of your amplifier as the Yellow Jackets themselves create their own cathode bias circuit, ignoring the bias setting in your amp. This also means that when you put your old tubes back in the amp, your bias will be set just as you left it.

If you have an amp with 4 output tubes, you have a number of options:

- a. Replace all 4 output tubes with Yellow Jackets.
- b. Remove all 4 tube and put only 2 Yellow Jackets in the amp, giving you about 20% power. In this case, install the Yellow Jackets in the inner two sockets. (You do not need

continued on other side...

THD Electronics, Ltd.



Handbuilt in the USA of US and imported components.

# Yellow Jackets™

1 Duet Tube Converters



includes EL84 Power Tubes

## Yellow Jackets™

- Contains One Pair of Yellow Jacket™ Converters Model YJS and Two EL84 Power Tubes.
- Converts most amplifiers with 6L6s, EL34s, 6550s or 6V6s to EL84s without modification or rebiasing.
- **Converts from Class AB to Class A operation!**
- Drops output power by 50% to 70%.
- Safe for all common amplifiers and transformers.
- One Year Limited Warranty on Converters.
- "The next best thing to getting yourself a new amp." - Guitar World Magazine
- "Increase amplifier flexibility"- Guitar Player Magazine



THD Electronics, Ltd.  
3510 6th Avenue W  
Seattle, WA 98119-1513  
Phone: 206.781.5500  
Fax: 206.781.5508  
info@thdelectronics.com  
www.thdelectronics.com

### **Thank You!**

Thank you for buying our Yellow Jacket™ Converters! They will provide you with years of service, assuming that you replace the tubes when they are worn, and will also give you a much greater variety of sounds from your amplifiers than you have ever experienced before.

### **How to Install Yellow Jackets:**

1. With your amplifier cold and turned off, remove the output tubes from their sockets. (Use a towel to protect your hands if the tubes are hot.)
2. Place the Yellow Jacket Converters in the output tube sockets and install the provided EL84 tubes into the Yellow Jackets™. Make sure that all pins are properly aligned and do not force anything. It should all go smoothly if the tube pins are properly aligned.
3. Turn the amp on, let it warm up, and play. Your amp is now running in Class A Mode with EL84 output tubes.

You do not have to adjust the bias of your amplifier as the Yellow Jackets themselves create their own cathode bias circuit, ignoring the bias setting in your amp. This also means that when you put your old tubes back in the amp, your bias will be set just as you left it.

If you have an amp with 4 output tubes, you have a number of options:

- a. Replace all 4 output tubes with Yellow Jackets.
- b. Remove all 4 tube and put only 2 Yellow Jackets in the amp, giving you about 20% power. In this case, install the Yellow Jackets in the inner two sockets. (You do not need

continued on other side...

to adjust the impedance selector on your amplifier to compensate for using only two output tubes. You can keep it set to the impedance of your speaker cabinet with no danger of causing damage to the transformer.)

c. Leave two output tubes in the outside sockets and install two Yellow Jackets in the inside two sockets. This will give you a combination of Class A and Class AB operation, a very cool, responsive sound!

**Other Thoughts Regarding Yellow Jackets:**

This model of the Yellow Jacket Converters, the YJSD, is a complete set of specialized, current-limiting/voltage-conditioning adapters with EL84 output tubes for use in most 20 watt to 100 watt amplifiers which use 6L6, EL34, 6550 or 6V6 output tubes. This includes Marshall 50 and 100 watt tube amps, Fender Super Reverb, Deluxe Reverb, Pro Reverb, Twin Reverb, Bassman, Showman, Tweed Pro (5E5-A), Hot Rod Deluxe, Hi-Watt 50s and 100 watt amps, Sound City 50 and 100 Watt Amps, all Rivera amps, Jim Kelley, Soldano SLO and Hot Rod Series amps, Mesa/Boogie 50 and 100 watt amps, Bogner, VHT, etc...

Yellow Jackets are NOT to be used in amplifiers with extremely high plate voltages such as Marshall Majors, Ampeg SVTs, Hi-Watt 200s and Orange 120s. These amplifiers have too high a plate voltage and will damage the EL84s and possibly the Yellow Jackets themselves. If you are not sure if this set of Yellow Jackets will work in your amp, please feel free to contact us at the factory either by phone or by e-mail. We will be happy to advise you on your individual situation.

Amplifiers which vary the bias voltage to create a tremolo effect will not have any tremolo effect when using Yellow Jackets. This includes the Fender Vibro- Champ, Brown Deluxe Amp (6G3), Princeton, Tremolux (5G9, 6G9), and Vibrolux (5F11, 6G11) to name a few.

Cathode-bias amplifiers such as Fender Tweed Deluxe, Champ, Vibro-Champ, Tweed Princeton, Tweed Pro (5C5, 5D5, 5E5), Tweed Super (5C4, 5D4), Tweed Tremolux (5E9), Tweed Twin (5C8, 5D8) etc. require a custom version of the Yellow Jacket (YJCD) with a ground wire to attach to the chassis. This set can be traded free of charge for a YJCD set by contacting the factory direct at the phone number or e-mail address on the other side of this card.

For 6V6 amps where you do not want to drop the power of the amplifier (other than Jim Kelley Amps which require the voltage reduction circuitry of this YJSD set), the YJ20D set can be ordered, and this set can be traded factory direct, if you desire.

If your amp uses 7591 output tubes, you need the YJ7591D Yellow Jackets, which can also be obtained from the factory or from your local dealer, or this set can be exchanged for the YJ7591D set. Please contact the factory.

Thank you once again for buying our products. Without customers like you, we would have nothing to do all day.

- All the folks at THD Electronics, Ltd.

to adjust the impedance selector on your amplifier to compensate for using only two output tubes. You can keep it set to the impedance of your speaker cabinet with no danger of causing damage to the transformer.)

c. Leave two output tubes in the outside sockets and install two Yellow Jackets in the inside two sockets. This will give you a combination of Class A and Class AB operation, a very cool, responsive sound!

**Other Thoughts Regarding Yellow Jackets:**

This model of the Yellow Jacket Converters, the YJSD, is a complete set of specialized, current-limiting/voltage-conditioning adapters with EL84 output tubes for use in most 20 watt to 100 watt amplifiers which use 6L6, EL34, 6550 or 6V6 output tubes. This includes Marshall 50 and 100 watt tube amps, Fender Super Reverb, Deluxe Reverb, Pro Reverb, Twin Reverb, Bassman, Showman, Tweed Pro (5E5-A), Hot Rod Deluxe, Hi-Watt 50s and 100 watt amps, Sound City 50 and 100 Watt Amps, all Rivera amps, Jim Kelley, Soldano SLO and Hot Rod Series amps, Mesa/Boogie 50 and 100 watt amps, Bogner, VHT, etc...

Yellow Jackets are NOT to be used in amplifiers with extremely high plate voltages such as Marshall Majors, Ampeg SVTs, Hi-Watt 200s and Orange 120s. These amplifiers have too high a plate voltage and will damage the EL84s and possibly the Yellow Jackets themselves. If you are not sure if this set of Yellow Jackets will work in your amp, please feel free to contact us at the factory either by phone or by e-mail. We will be happy to advise you on your individual situation.

Amplifiers which vary the bias voltage to create a tremolo effect will not have any tremolo effect when using Yellow Jackets. This includes the Fender Vibro- Champ, Brown Deluxe Amp (6G3), Princeton, Tremolux (5G9, 6G9), and Vibrolux (5F11, 6G11) to name a few.

Cathode-bias amplifiers such as Fender Tweed Deluxe, Champ, Vibro-Champ, Tweed Princeton, Tweed Pro (5C5, 5D5, 5E5), Tweed Super (5C4, 5D4), Tweed Tremolux (5E9), Tweed Twin (5C8, 5D8) etc. require a custom version of the Yellow Jacket (YJCD) with a ground wire to attach to the chassis. This set can be traded free of charge for a YJCD set by contacting the factory direct at the phone number or e-mail address on the other side of this card.

For 6V6 amps where you do not want to drop the power of the amplifier (other than Jim Kelley Amps which require the voltage reduction circuitry of this YJSD set), the YJ20D set can be ordered, and this set can be traded factory direct, if you desire.

If your amp uses 7591 output tubes, you need the YJ7591D Yellow Jackets, which can also be obtained from the factory or from your local dealer, or this set can be exchanged for the YJ7591D set. Please contact the factory.

Thank you once again for buying our products. Without customers like you, we would have nothing to do all day.

- All the folks at THD Electronics, Ltd.