

ORANGE™



AD Series Owners Manual

Orange Amplifiers
Glenhaven Avenue
Borehamwood
Hertfordshire
WD6 1AY
ENGLAND

Tel: +44 20 8905 2828
Fax: +44 20 8905 2868
info@omec.com

Orange USA
2065 Peachtree Industrial Ct.
Suite 208
Atlanta, GA 30341
USA

Tel: 1-404-303-8196
Fax: 1-404-303-7176
info@orangeusa.com

ORANGE™ AD Series Owners Manual

Contents

Introduction	1
Front and Rear Panel Explanations.....	2
Using Your Amplifier.....	3
Technical Specifications	3

Thank you for choosing Orange. You are now a member of the ‘Legendary British Guitar Amplifier’ owners club!

Since 1968, when the company was founded, Orange has been a pioneering force in the guitar amplification industry. Today, with a team of the world’s finest amplifier engineers, Orange continues to push back the boundaries of conventional tube amplifier design.

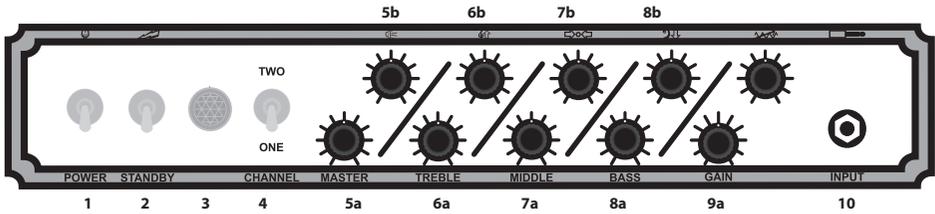
Our commitment to craftsmanship and quality control has allowed our amplifiers to stand the test of time, giving their owners as much pleasure now, as the day they were bought. To maintain this level of excellence, each Orange amplifier is put through many rigorous test procedures before leaving the factory.

The warmth, tonal quality and rich harmonics generated by a valve amplifier cannot be reproduced by ‘artificial’ means. Many guitarists have reached the same conclusion: neither the transistor nor microchip is a suitable alternative to valve technology.

This booklet contains valuable technical and safety information. Please take the time to read this manual as the information may enhance the sound and performance of your amplifier.

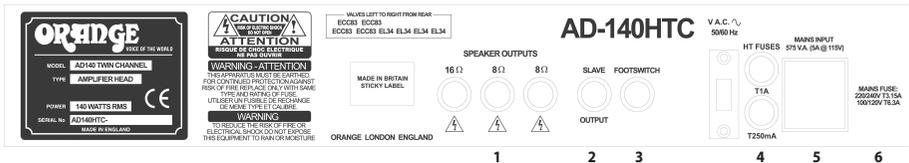
We are confident that you will be delighted with your new purchase and that it will provide you with many years of enjoyment.

Front Panel



1. **Power Switch**
In the up position the amplifier power is off
In the down position the amplifier is on
2. **Standby Switch**
In the up position the amplifier is in standby mode
In the down position the amplifier is ready to play
3. **Power Indicator Lamp**
4. **Channel Switch (Not AD30R)**
Switches between Channel 1 and Channel 2
- 5a. **Master Volume Control - Channel 1**
Controls the output volume level of this channel
- 5b. **Master Volume Control - Channel 2**
Controls the output volume level of this channel
- 6a. **Treble Control - Channel 1**
Controls the high frequency level of this channel
- 6b. **Treble Control - Channel 2**
Controls the high frequency level of this channel
- 7a. **Middle Control - Channel 1**
Controls the mid range frequency level of this channel
- 7b. **Middle Control - Channel 2**
Controls the mid range frequency level of this channel
- 8a. **Bass Control - Channel 1**
Controls the bass frequency level of this channel
- 8b. **Bass Control - Channel 2**
Controls the bass frequency level of this channel
- 9a. **Gain Control - Channel 1**
Controls the Overdrive/Distortion level of this channel - The gain works from left to right increasing in saturation as the control is turned clockwise.
- 9b. **Gain Control - Channel 2**
Controls the Overdrive/Distortion level of this channel - The gain works from left to right increasing in saturation as the control is turned clockwise.
10. **Input Socket**
Instrument input for both channels. AD30R features split high and low sockets, the high offering a higher gain sound the low offering a cleaner sound.

Rear Panel



1. **Speaker Outputs**
When using a single Orange 16 ohm speaker cabinet, (i.e. PPC412 or PPC212), attach it to the 16 ohm output socket on your amplifier.
When using two Orange 16 ohm speaker cabinets attach each one to a separate 8 ohm output socket on your amplifier.
When using a single 8 ohm cabinet attach it to either one of the two 8 ohm output sockets on your amplifier.
WARNING: Never use two 8 ohm cabinets at the same time.
When using an AD30TC combo or AD30R combo with a 16 ohm extension speaker, disconnect the internal speaker from the 16 ohm socket and reconnect to one of the two 8 ohm sockets. Connect the extension speaker to the other 8 ohm socket.
WARNING: Orange AD Series amplifiers should not be used with 4 ohm speakers. This allows you to link your amplifier to another amplifier, or into a mixing desk for recording. (There is no speaker emulator built in)
Attaching an optional footswitch to this socket will allow you to remotely change channels. The high tension fuse, protects transformers and other circuitry from blowing in the event of an output valve shorting. Please refer to the Technical Specification section for fuse ratings. This is where your mains lead plugs in. Also the mains fuse is located here. Please refer to the Technical Specification section for fuse ratings.
Switches amp between 220V and 240V or 100V and 120V. This should be set to the mains electricity voltage used in the country where the amplifier is to be operated.
2. **Slave Output (AD140HTC only)**
3. **Channel Footswitch Socket**
4. **HT Fuse (AD140HTC has 2 fuses)**
5. **Mains Inlet Socket & Fuse Holder Tray**
6. **Mains Voltage Switch**

Please ensure your amplifier is switched to the correct voltage for your country. If unsure please consult your dealer.

Using Your Amplifier

IMPORTANT! Before connecting your amplifier to a power source, please check the following:

1. Ensure your speaker cabinet is connected to the correct impedance speaker output socket, (see Rear Panel, item 1), using a good quality speaker cable. **Do not use guitar leads.** (Head models only. Combo models will have it's speaker attached).
2. Ensure that the voltage selector switch is set to the correct mains voltage, (see Rear Panel, item 6).

When powering up your amplifier, switch to the 'Standby' position first and leave for two minutes before switching to the 'On' position. (This will maximise the life of your valves).

If you are unsure about any of the above points please consult your local Orange supplier.

Using Channel 1

Tones possible from this channel vary from clean to vintage blues/rock.

Each EQ control affects the overall gain of the amplifier. If all are turned anti-clockwise you will hear no sound. If all are turned fully clockwise in combination with the gain control turned fully clockwise, then the maximum level of overdrive will be achieved.

Using Channel 2

This channel has the same basic structure as Channel 1 but with a tighter bass response, more middle and slightly more gain.

AD30R

This model uses the same preamp as Channel 1 of the AD30TC with the addition of traditional spring reverb.

Technical Specifications

	AD30R Combo	AD30TC Combo	AD30HTC Head	AD140HTC Head
Power	30 watts - Class 'A'	30 watts - Class 'A'	30 watts - Class 'A'	140 watts
Channel Configuration	Single Channel (Clean through Dirty)	Twin Channel (Both Clean through Dirty)	Twin Channel (Both Clean through Dirty)	Twin Channel (Both Clean through Dirty)
Speakers	2 X 12" Celestion Vintage 30	2 X 12" Celestion Vintage 30	-	-
Reverb	Yes	-	-	-
Footswitch Function	-	Channel	Channel	Channel
Preamp Valves	2 X ECC83 / 12AX7	4 X ECC83 / 12AX7	4 X ECC83 / 12AX7	4 X ECC83 / 12AX7
Power Valves	4 X EL84	4 X EL84	4 X EL84	4 X EL34
Rectifier Valve	1 X GZ34 / 5AR4	1 X GZ34 / 5AR4	1 X GZ34 / 5AR4	-
Reverb Valve	1 X ECC83 / 12AT7	-	-	-
Mains Fuses	100 / 120V - T4 A 220 / 240V - T2 A	100 / 120V - T4 A 220 / 240V - T2 A	100 / 120V - T4 A 220 / 240V - T2 A	100 / 120V - T6.3A 220 / 240V - T3.15A
HT Fuses	T500 mA	T500 mA	T500 mA	T1A & T250mA
Channel 1 Controls	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble
Channel 2 Controls	-	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble	Gain / Volume Bass / Middle / Treble
Other Controls	Reverb	-	-	-
Weight	38kg / 84lb	37kg / 82lb	18kg / 40lb	23.5kg / 52lb
Dimensions (mm)	660 x 300 x 533	660 X 300 X 533	550 X 245 X 255	550 X 245 X 255