

# GR

OWNERS MANUAL  
ROMULUS LINE LEVEL INTEGRATED  
AMPLIFIER

**ROMULUS**

# **ROMULUS** **INTEGRATED VALVE AMPLIFIER**

C.R. manufacture a range of high quality tube amplifiers which have established a world wide reputation for high quality audio performance. Our integrated amplifiers demonstrate that high quality audiophile performance and cleanly styled aesthetics are compatible and not mutually exclusive !

We hope that our products will combine with other elements of your hi-fi system to provide hours of musical enjoyment.

Please read the following information which will help you obtain the best results from your C.R. tube amplifier.

## **INSTALLATION**

Carefully unpack the amplifier, it is recommended the packaging is retained for reuse if the unit is to be transported later.

The standard finish for C.R. amplifiers is Gloss Black paint and polished stainless steel. These are very durable but the use of cleaning agents, abrasives and polishes should be avoided if the high quality finish is to be retained. Dusting with a soft cloth is all that will be required to maintain the product in good condition.

Some amplifier models are delivered with the output tubes removed and individually packed. Each tube is marked with a number which corresponds to the position in which it should be placed. (See fig. 1)

Carefully insert each tube in turn, ensure tubes are fitted in the correct orientation and pushed firmly into their sockets.

The optional protective cover or cage is fitted to the amplifier by screws which fit into pre-drilled holes in either side of the main chassis. Do not attempt to fit or remove the cover while the amplifier is in use.

Use only the moulded mains cable provided.

Ensure the amplifier is connected to a mains earth at all times during use.

## **INSTALLATION cont.**

Position the amplifier on a suitable support table or shelf capable of supporting the units weight (please see the separate specifications for each model). Allow adequate space for ventilation.

### **GROUND LIFT SWITCH**

All amplifiers are fitted with "Ground Lift" switches to simplify installation of multi amplifier systems.

This switch removes the ground or earth connection between the amplifier electronics and chassis. The switch does not affect the mains earth connection, it is essential that the amplifier is always connected to a mains earth.

### **REMOTE CONTROL**

The Romulus model amplifier is available with an optional remote control system which provides control of volume level and mute via a standard infra red remote control key pad. The remote control option is not available as a retro fit modification it is only available if specified when ordering.

When the unit is switched on the control system sets the output to Mute and resets the motorised volume control to zero. To play music first press the mute button on the handset and then advance the volume level with the "up" arrow.

### **CONNECTIONS AND CABLES**

Use high quality phono plugs and interconnect cables for connection to source components.

It is recommended that all interconnect cables are kept as short as possible to minimise signal loss. Low capacitance cables are preferred and generally these types will minimise losses.

Connect the amplifier to loudspeakers with a nominal impedance of at least 6 Ohms for optimum performance. Loudspeaker cables with a minimum cross section of 1.5 sq. mm are recommended.

## **CONNECTIONS AND CABLES cont..**

Take care no loose strands of wire are visible between the loudspeaker terminals, short circuits may damage the amplifier.

After making all connections connect the amplifier to a mains supply, ensure the volume control is turned down to minimum and switch on. After a few seconds the valve heaters will begin to glow. After approximately 15 seconds adjust the volume control to the desired sound level, the sound quality should be crisp and clear. If there is audible distortion or unwanted noise switch off and check all wiring and connections.

If problem persists consult your dealer or telephone 01702 469055 for advice.

In the event of the amplifier becoming faulty please contact your retailer or return the unit for manufacturers repair. Do not attempt to dismantle, modify or repair the amplifier, to do so may invalidate the manufacturers warranty.

**NOTE: No user replacement parts are fitted, return to manufacturer for repair.**

**ENSURE THE VALVE AMPLIFIER IS NOT SWITCHED ON WITHOUT THE LOUDSPEAKERS CONNECTED.**

## **OPERATION**

Valves, or Thermionic Tubes, are rugged components but they have a finite operating life of several thousand hours continuous use. Observation of the following points will help prevent premature failure and ensure many hours of listening pleasure.

- 1      Valve amplifiers warm up rapidly, it is not necessary or desirable to leave the amplifier permanently switched on to ensure the best performance. It is recommended that the amplifier should be switched off when not in use to conserve valve life.
- 2      Do not switch the amplifier on when hot, i.e. immediately after prior use, always allow the valves to cool completely before switching on again.
- 3      Always use the amplifier within its performance envelope, persistent overloading, indicated by "clipping", a clearly harsh and audibly distorted sound, will shorten tube life.

The valve set supplied with the amplifier is guaranteed for 6 months only.

## **VALVE REPLACEMENT**

The tubes are the heart of an amplifier, they have a finite operating life and will finally require replacement. Routine replacement is not necessary, an obvious deterioration in sound quality, output power or both, will be clearly apparent.

Tube replacement is a simple procedure and may be carried out by your dealer, chosen by C.R. for his technical expertise, who will also inspect the amplifier. Alternatively the user may install the replacement valve providing the following procedures are carefully followed.

Valves may be replaced as either a complete set of drive and output valves or, depending upon the age and level of use, only the output valves may require replacement.

- 1      Switch off the amplifier , disconnect the mains supply and allow the valves to cool completely.
- 2      Unpack the new tubes and inspect for obvious damage, e.g. bent pins of broken glass.
- 3      Carefully unplug and remove each valve and replace with a new one. Ensure the new valve has the same identifying part number as the component it is replacing.
- 4      For optimum performance the output tube bias should be re-calibrated for a new set of tubes, your dealer will be able to install and re-set the tube bias.

## Romulus Line Level Integrated amplifier

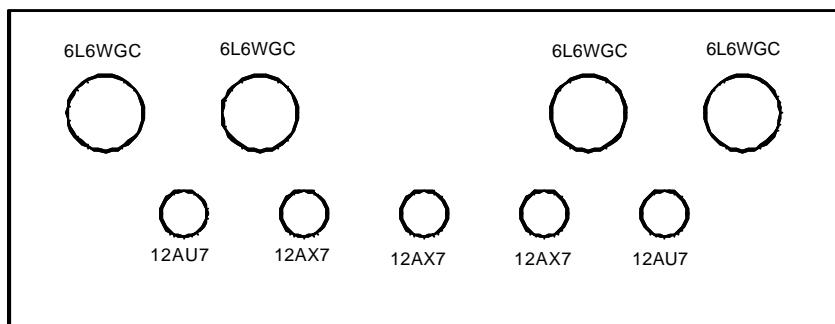
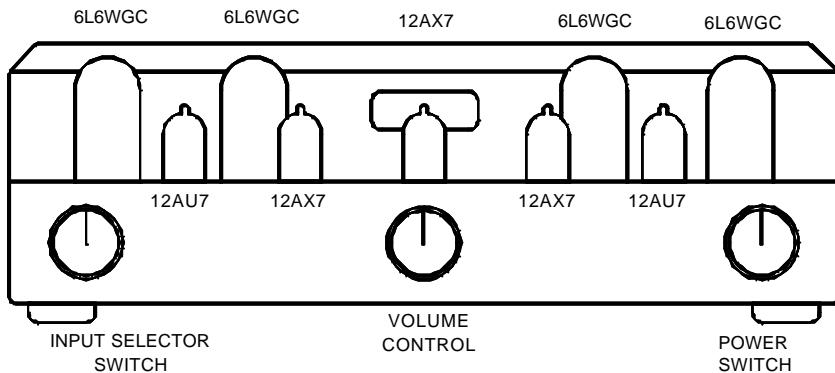
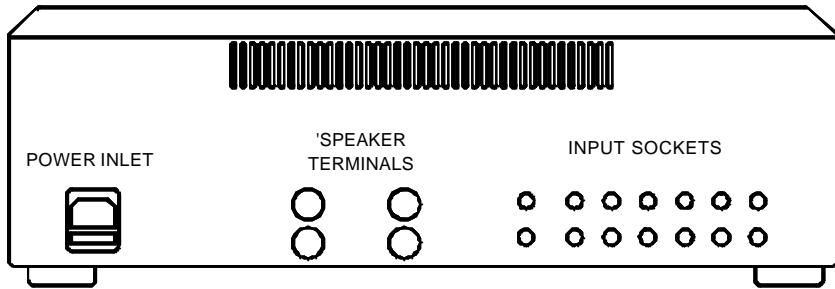
### SPECIFICATION

INPUT SUPPLY	115/230v 50/60Hz
POWER CONSUMPTION	250 VA
OUTPUT POWER	35 W.P.C. 8 Ohm load Suitable for loud speakers of 4 to 16 ohms
SENSITIVITY	100mV for full output on all inputs.
INPUTS	5 line level inputs via rear mounted Phono sockets
VALVES	3 off type 12AX7 (ECC83) 2 off type 12AU7 (ECC82) 4 off type 6L6WGC output valves.
DIMENSIONS	430mm wide x 150mm high x 350mm deep (overall)
WEIGHT	15.5 Kg.
PACKED DIMENSIONS	510mm x 410mm x 240mm weight 18 Kg.

## **SAFETY WARNING**

**Valve amplifiers contain high voltage DC (Direct Current) power supplies,  
these high voltages can be Very Dangerous.**

- 1     Do not remove any of the cover panels.
- 2     Do not attempt to operate the amplifier with the cover panel removed
- 3     The amplifier output valves operate at very high surface temperatures,  
      keep out of reach of children and pets.
- 4     Do not touch the tubes (valves) when the amplifier is in use or while  
      they are hot.



ROMULUS INTEGRATED AMPLIFIER

**Made in England by**

**C. R. Electronic Design  
Wansfell House Briar Close,  
Hawkwell,  
Hockley,  
Essex, SS4 5HD.  
Tel. 44 (0) 1702 200111**

**Supplied by :-**

