

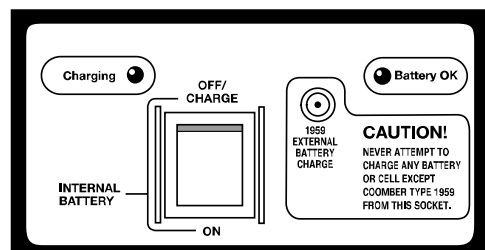
Fig.1. 2100

## Power From Mains

Connect the Mains supply and switch on (switch is located at the side). The **POWER** Indicator (9) will illuminate.

## Power from External D.C. Input (8)

A standard Roka connector enables the equipment to operate from an external DC supply of 12V to 24V. The **POWER** light (9) below the socket will illuminate if the polarity is correct. Always disconnect the DC source when not in use. Suitable batteries are 12v car batteries or **Coomber 1959**. To recharge the Coomber 1959 battery you must use our **1958 charger**.



## Internal Rechargeable Battery (Optional)

The 2100/R model incorporates a rechargeable battery and battery charger circuit allowing the 2100/R to be used away from a mains power source. A panel located on the side of the unit controls battery use.

When fully charged, the **Battery OK** light will illuminate when the **INTERNAL BATTERY** switch is switched on. When the **Battery OK** light flashes, the battery requires charging.

To charge the battery, simply plug the 2100/R into the mains and switch on the Mains switch - the **POWER** light (9) will illuminate on the top panel. Ensure that the **INTERNAL BATTERY** switch is switched to **OFF/CHARGE**. The **Charging** light will illuminate and remain on until the battery is fully charged. The light will then extinguish.

To maximise battery life, never let the battery become fully discharged. Recharge it as soon as the **Battery OK** lamp begins flashing.

The battery panel also incorporates a Roka connector, allowing one Coomber 1959 battery to be recharged at a time.

## Mic Input Sockets (1)

**Public Address:** One or two microphones can be connected to **MIC** sockets (1). Adjust **INPUT VOLUME** (13), **Bass** (7) and **Treble** (6) to suit. Microphones may be used together providing they have similar characteristics.

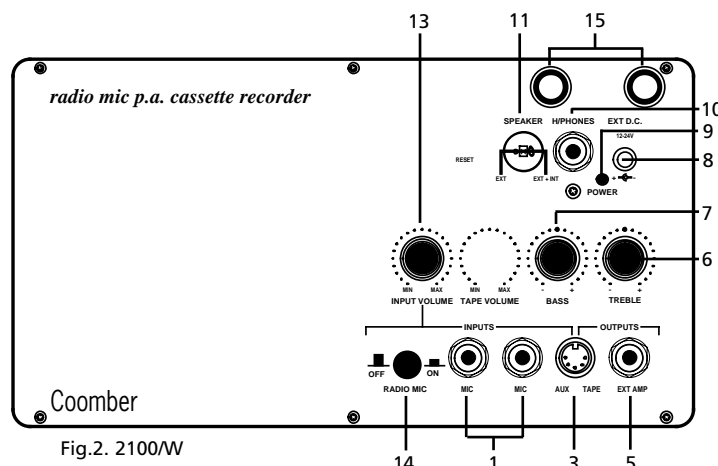


Fig.2. 2100/W

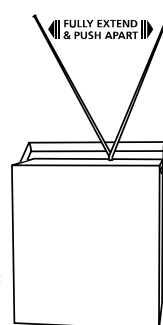
## Using a Handheld Radio Microphone (2100/W model)

1. Extend aerial (15) on the 2100/W fully.
2. Switch on the microphone using the switch fitted in the base. A red indicator light will glow to indicate that the microphone is operating correctly. If the light does not glow, check the condition of the battery and replace if necessary.
3. Depress the radio mic switch (14) and adjust volume to suit.

## Using a Lapel or Headband Radio Microphone (2100/W & 2100/RW models)

The lapel and headband microphones both use a bodypack in which a transmitter is fitted. Begin by connecting the microphone and aerial provided in the kit to the bodypack.

1. Fully extend aerials (15) and push apart.
2. Switch on the microphone at the bodypack. A red indicator light will glow to indicate that the transmitter is operating correctly. If the light does not glow, check the condition of the bodypack battery and replace if necessary.
3. Depress the radio mic switch (14) and adjust volume to suit.



## Interference: Good Practice

It is always possible to pick up interference from nearby radio transmitters while the radio microphone receiver is switched on but unused - especially if the radio mic itself is switched off. It is therefore good practice to switch off the radio microphone receiver (12), if the radio mic is not being used.

## Acoustic Feedback

Feedback will occur when a microphone picks up sound from the loudspeaker. This is usually due to the volume being too high and/or the microphone being too near to the equipment.

### PREVENTING FEEDBACK

1. Make sure the microphone is switched off before switching the system on.
2. Ensure that the **VOLUME** (13) is turned down (anti-clockwise) to its lowest position.
3. Switch on the microphone.
4. Gradually turn up the **VOLUME** (13) until feedback just starts to occur (you should hear a whine noise) and then turn the volume down a little until you can no longer hear the feedback. You might have to experiment with the volume control to get optimum results.

Note: Some microphones are not designed for Public Address and further advice may be needed.

## To amplify a portable CD player / MiniDisk -

1. Use **Input DIN Socket (3)** and Coomber's 1974 connecting lead connected to the portable CD player's / Minidisk's headphone socket.
2. Adjust the Volume control of the portable unit to approximately 3/4 full. You can now adjust **VOLUME (13)**.

### Model 2100 only -

1. If you prefer you can use a jack to jack plug lead with socket **(4)**. Adjust the Volume control of the portable unit to approximately 3/4 full.
2. Adjust **VOLUME 2 (12)** to alter the level from the portable CD / MiniDisk. You do not need to adjust the volume control on the portable CD / MiniDisk if this socket is used.

## External Loudspeaker Socket (11)

All Coomber extension loudspeakers have a 2 pin DIN plug which will plug into the 2100, 2100/W or 2100/RW. It is possible to have the loudspeaker and the equipment 'on' together or only have the loudspeaker 'on', depending on the way the plug is connected.

- a) For external and internal loudspeakers operating together - minimum external impedance 8 ohm. (Coomber 411 extension loudspeaker is recommended).
- b) For an external loudspeaker only - minimum external impedance 4 ohm.

## Headphone Socket (10)

Connecting Mono or Stereo headphone automatically disconnects the internal loudspeaker. For safety you are advised to use only 600 ohm headphones such as Coomber 1929 headphones.

## Ext AMP socket (5)

Use this socket to connect to Coomber Booster speakers or an external amplifier.

## Power ratings

Model	240v	12v	24v
2100	30w	10w	37w

Ratings quoted in Watts RMS using 4 ohm load.

## SAFETY & GENERAL INFORMATION

**Headphones:** For personal safety and comfort connect headphones into equipment, turn volume down and then switch on **before** placing headphones over ears. For safety use only 600 ohm headphones (i.e Coomber type 1929).

**Environments:** The equipment should not be exposed to dust, moisture, water, chlorine and other corrosive substances in normal use or during storage. It will cause damage to this equipment.

**Swimming pool atmospheres:** are very hostile to all electro-mechanical equipment (e.g. steel rusts and rubber perishes). Equipment returned for repairs showing evidence of use in adverse environments may, at our discretion, be charged for even during the 12 month warranty period.

- Rechargeable battery replacement must be carried out by a competent qualified technician.
- The disposal of batteries (rechargeable or otherwise) where used in Coomber equipment should be discarded in accordance with local regulations.
- Do not cover the ventilation openings with any items (e.g. newspaper, fabrics etc.)
- Naked flames, such as lighted candles, should not be placed on or near the apparatus.
- The apparatus should not be exposed to dripping or splashing. No objects filled with liquids, such as vases, should be placed on or near the apparatus.

**European Safety Standard:** All Coomber equipment complies with EN60065. Any local requirements for use of this equipment should be taken into account.

**Class I construction:** This equipment must be EARTHED.

### Mains Voltage

UK & EEC: 220-240V 50Hz: **Mains Cable:** Line - Brown, Neutral - Blue, Earth - Yellow & Green  
USA: 110-120V 60Hz: **Mains Cable:** Line - Black, Neutral - White, Earth - Green

**Isolate from mains supply when not in use by removing the plug from the wall socket.**

**Mains Plug:** The mains cable fitted to this equipment is already provided with a moulded plug. If another plug type is required, follow instructions from the plug manufacturer, or seek advice from a qualified person. **DISPOSE OF ORIGINAL PLUG SAFELY. DO NOT RE-USE.**

**Mains Plug fuse rating:** 3Amp to BS1362 (applicable in UK)

**Model type and rating information is located on a label on the rear of the product.**

**Additional Technical Information:** If you require any further help or information, or if any point is not clear, then please telephone **01905 25168/9** quoting your model number and serial number (located on a label on the rear of the product). Our Technical Department will be pleased to help you.

**Note:** This equipment contains no user serviceable parts and should only be disassembled and reassembled by competent qualified personnel. **Dismantling will render the warranty void.**

### Electrical Safety Testing:

- Safety testing and servicing should only be carried out by competent qualified personnel.
- When undertaking an earth bond safety test, only use the externally exposed metalwork. Do not test against internal metal components found inside tape mechanisms or CD trays - **THIS WILL LEAD TO IRREPARABLE INTERNAL DAMAGE.**
- **The supply cable is part of a special assembly. If damaged the equipment should be returned to Coomber Electronic Equipment Limited or their agent for cable replacement.**

## Coomber Electronic Equipment Ltd.

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- Coomber reserve the right to change products and specifications without notice.
- All Coomber equipment is covered by a 12 months warranty against defective components or faulty manufacture from date of dispatch. Any modifications to or misuse of the equipment renders this warranty void.
- Equipment that is security marked or damaged cannot under any circumstances be exchanged.