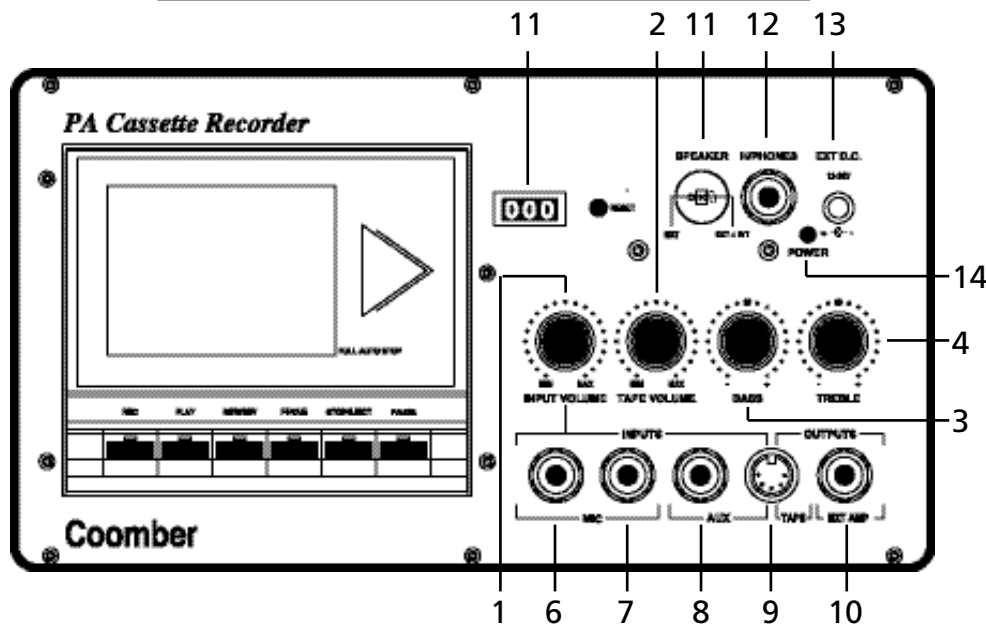


PA Cassette Recorders



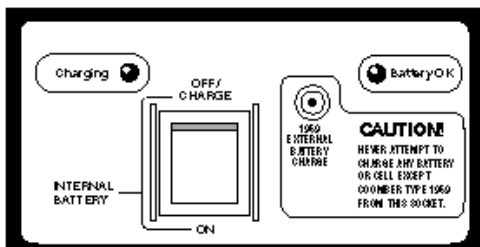
Power From Mains

A Mains ON/OFF switch is found on the side panel. A red power light (14), on the top panel, will illuminate when the supply is switched on.

EXT D.C. Input Socket (13)

A standard Roka connector allows the equipment to operate from an external DC supply of between 12 and 24 volts. The red "Power" light (14) below the socket will illuminate if the polarity is correct. Always disconnect the DC source when not in use.

The Coomber 1959 rechargeable battery, fitted with fused lead and connector is suitable for use with this model. A battery charger, Coomber 1958, should be used to recharge the battery as necessary.



Internal Rechargeable Battery (Optional - 2060/R models)

The 2060/R model incorporates a rechargeable battery and battery charger circuit allowing the 2060/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 2060/R into the mains and switch on the Mains switch - the **POWER** light (14) 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.

Cassette Mechanism

The tape deck has 'one touch' record, cue and review facilities, and full Autostop. NOTE: It is important to keep the pinch wheel and heads clean. If in doubt consult your audio visual advisor.

Recording

When recording, the record level is automatically set to give optimum performance, whether from the **AUX** or **MICROPHONE** inputs. If the **RECORD** key on the cassette mechanism cannot be depressed, check that the left-hand safety tab on the top edge of your cassette has not been removed to protect an original recording. If you wish to reuse the cassette for recording, replace the removed tab with self adhesive tape.

Useful Tips

- You may find that a small amount of distortion is heard at the start of a recording, especially if the signal to be recorded is strong (loud). The automatic level control (ALC) attunes itself to the general level of sound in a room - so for the best recordings, allow the ALC to settle before recording commences. To do this, simply press the **PAUSE** key followed by the **RECORD** key. The ALC will monitor the sound levels and set itself. Release the **PAUSE** key to start the recording.
- Reset the turns counter (15) to zero whenever you wish to be able to return to the start of a particular passage.

Playing a Pre-recorded Tape

Open the cassette door with the **STOP/EJECT** key and insert a pre-recorded tape. Close the door and press the **PLAY** key. Adjust the **TAPE VOLUME** (2), **BASS** (3) **TREBLE** (4), controls to suit. To pause the tape, press the **PAUSE** key.

Input Sockets (6-7-8-9)

Public Address

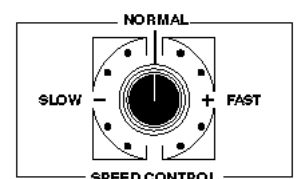
One or two microphones can be connected to sockets (6) and/or (7). Adjust **INPUT VOLUME** (1), **BASS** (3) and **TREBLE** (4) to suit. Microphones may be used together effectively providing they have similar characteristics.

Coomber 1902 or 1903 microphones are ideal for public address use.

Variable Speed (Optional - 2020 & 2060 models)

A dial on the side panel varies the speed of cassette playback from -25% to +10%.

During recording, the speed control is automatically overridden.



Acoustic Feedback

Acoustic feedback will occur when the microphone picks up audio from the loudspeaker. This is usually due to the Volume being too high. and/or the microphone is too near to the equipment.

PREVENTING FEEDBACK

1. Make sure the microphone is switched off before switching the system on.
2. Ensure that the **INPUT VOLUME (1)** is turned down (anti-clockwise) to its lowest position.
3. Switch on the microphone.
4. Gradually turn up the **INPUT VOLUME (1)** 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 keyboards.

Connect the keyboard to **AUX** socket (8).

Both mic and aux inputs can be used at the same time allowing mixing of live speech over the keyboard. Recordings may be made by pressing the **RECORD** button.

The position of **INPUT VOLUME (1)**, **BASS (3)** and **TREBLE (4)** controls will not affect the recording - which is automatically set.

Using a portable CD player or MiniDisk

Connect a CD player/mini disc via the **Input/Output Socket (9)** using a Coomber **1974** connecting lead.

This DIN socket can also provide a low level output for cassette playback only.

Output Socket (10)

This socket provides low level mixed output. Ideal for use with Coomber booster speakers (2185 or 2186).

External Loudspeaker Socket (11)

- a) For external and internal loudspeakers operating together - minimum external impedance 8ohm.
- b) For an external loudspeaker only - minimum external impedance 4ohm.

Headphone Socket (12)

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, 1906, 1907 headphones.

Power ratings

Model	240v	12v	24v
2020	11w	3w	14w
2060	30w	10w	37w

Ratings quoted in Watts RMS using 4 ohm load.

Coomber Accessories

1902 High Quality Dynamic Microphone with 5 metre lead



1903 Professional Quality Dynamic Microphone with 5 metre lead



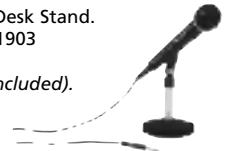
1904 Microphone Connecting Box, Connects up to six microphones to your Coomber Recorder.



1905 Fully Extending Microphone Floor Stand. designed to be extremely stable. For use with 1902/1903 microphones. Now with FREE boom arm (Microphone not included).



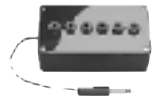
1912 Microphone Desk Stand. For use with 1902/1903 microphones. (Microphone not included).



1929 600 ohm Standard Quality Mono Headphones



1908 Headphone Distribution Box Connect up to six headphones to your Coomber Recorder.



Carry your 2060 anywhere with the Coomber 1957 Carry Bag



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.

Brindley Road, Warndon, Worcester, WR4 9FB, U.K.

Tel: 0044 (0)1905 342070

e-mail: sales@coomber.co.uk

Fax: 0044 (0)1905 759170

web: www.coomber.co.uk

- 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.