

Operating Instructions: 2020 and 2060 Models

Coomber

Portable PA Cassette Range

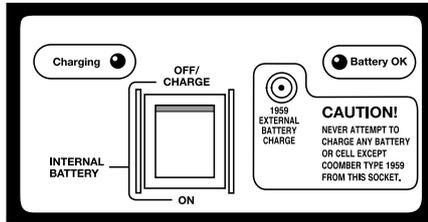
Switching On

The Mains ON/OFF switch is found on the side panel. A red power light (8), on the top panel, will illuminate when the supply is switched on.

It is good practice to ensure that the INPUT VOLUME and TAPE VOLUME controls are turned to minimum before switching on or when connecting microphones.

Internal Rechargeable Battery (Optional)

Models labelled with the suffix /R incorporate a rechargeable battery and charger circuit allowing the portable PA to be used away from a mains power source. A side panel controls battery use and charging.



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

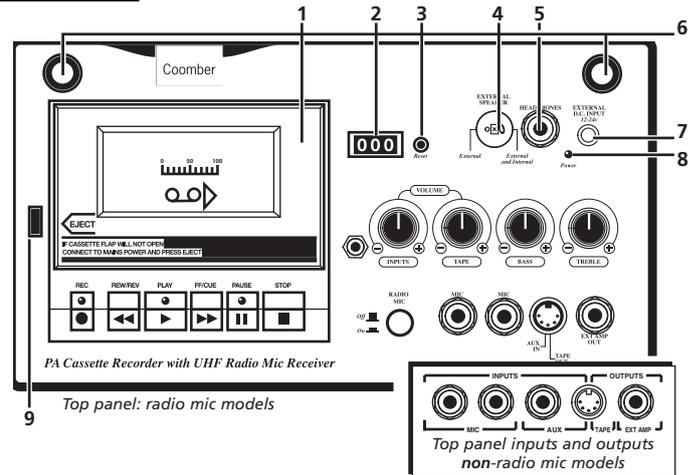
To charge the battery, simply plug the 2060/R into the wall and turn on the Mains ON/OFF switch - the **POWER** light (8) will illuminate on the top panel. Ensure that the **INTERNAL BATTERY** switch is turned to **OFF/CHARGE** position. The **Charging** light will illuminate, and will extinguish only when the battery is fully charged.

- 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 external Coomber 1959 battery to be recharged at a time.

External D.C. Input Socket (7)

A standard Roka connector allows the equipment to operate from an external DC supply of between 12 and 24 volts. The red "Power" light (8) below the socket will illuminate only if the polarity is correct. Always disconnect the DC source when not in use.

- The Coomber 1959 rechargeable battery and Coomber 1958 battery charger can be used with the 2060 range.



Logic Controlled Solenoid Cassette Mechanism (1)

The cassette mechanism offers 'one touch' record, cue and review facilities, and includes full Autostop - disengaging the drive automatically when the tape reaches its end. **For optimum performance it is important to keep the pinch wheel and heads clean.** If in doubt about cleaning consult your audio visual advisor or visit the **PRODUCT SUPPORT** section of our website.

The solenoid controlled mechanism offers some useful features.

- The ability to switch directly between **REWIND**, **FAST FORWARD** and **PLAY** without needing to select **STOP** first.
- **CUE** and **REVIEW**, selected by pressing **FAST FORWARD** or **REWIND** while in **PLAY** mode, allows the user to fast forward or rewind the tape by a few seconds.

TIP: Holding the key down allows the tape to go forwards or backwards for as long as the key is depressed. AS SOON AS THE KEY IS RELEASED THE TAPE WILL BEGIN PLAYING AGAIN.

- To record, press the **RECORD** key, followed by the **PLAY** key.
- **EJECT** (9) will only operate in the **STOP** and **PAUSE** modes. While the tape is moving, the **EJECT** button remains locked and cannot be used. This prevents damage to the cassette and the mechanism.
- **NORMAL / CHROME TYPE TAPE.** The mechanism will recognise which type of tape is inserted and selects Normal or Chrome mode as required, providing optimum performance at all times.
- **SEARCH** facility looks for a gap of 3 seconds or more, allowing the user to wind forwards or backwards to the start or finish of a music track (for example).

*To engage, select **PLAY** and then depress the **PLAY** key for a second time. The **PLAY** LED will flash twice while the cassette continues to play. Pressing either the **FAST FORWARD** or **REWIND** keys will now initiate **SEARCH** mode.*

*To deselect the **SEARCH** mode, depress the **PLAY** key again. The **PLAY** LED will flash once.*

***SEARCH** mode is also cancelled when the tape reaches the end, or the **STOP** button is depressed.*

***CUE** and **REVIEW** will not operate in the **SEARCH** mode.*

- **AUTOMATIC LEVEL CONTROL (ALC).** The record level is adjusted and set automatically to provide optimum performance from the **AUX** or **MICROPHONE** inputs.

*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). **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, press the **PAUSE** key followed by the **RECORD** key. The **ALC** will monitor the sound levels and set itself. Release the **PAUSE** key after a few seconds monitoring to start the recording.*

- Reset the turns counter (2) to zero using the reset button (3) 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 **EJECT** key (9) and insert a pre-recorded tape. Close the door and press the **PLAY** key. Adjust **TAPE VOLUME**, **BASS** and **TREBLE** controls to suit. To pause the tape, press the **PAUSE** key.

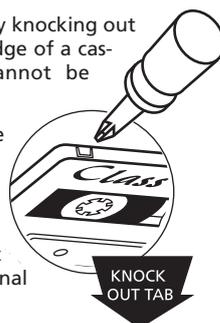
CASSETTE INCORRECTLY LOADED WARNING! If all three indicator lights flash five times, then the cassette may be loaded incorrectly. Without using undue force, eject the tape and re-insert it before trying to play the tape.

CASSETTE JAMMED! Turning off the PA while the cassette is still engaged may cause the mechanism to jam. To remove the cassette, re-connect to the power supply and switch on. The cassette mechanism will reset itself and the tape can then be removed.

Valuable Recording Protection

You can protect valuable recordings by knocking out the safety tab on the top left hand edge of a cassette. Once removed, the tape cannot be recorded over (on that side only).

- If the **RECORD** key on the cassette mechanism cannot be depressed and the record indicator light flashes three times, 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 do wish to re-use the cassette for recording, replace the missing tab with self adhesive tape.



Microphone Input Sockets

All models incorporate two 6.35mm microphone input sockets. Set the **INPUT VOLUME** to minimum before connecting microphones, then adjust **INPUT VOLUME**, **BASS** and **TREBLE** to suit. Two mics may be used together effectively providing they have similar characteristics.

ACOUSTIC FEEDBACK

ACOUSTIC FEEDBACK will occur when the microphone picks up sound from the loudspeaker. This is usually due to the **INPUT VOLUME** being too high, and/or the microphone being too near the equipment.

1. Make sure the microphone is switched off before switching the system on.
2. Ensure that the **INPUT VOLUME** is turned (anti-clockwise) to its lowest position.
3. Switch on the microphone.
4. Gradually turn up the **INPUT VOLUME** 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 use with PA systems and further advice may be needed. Coomber 1918 or 1808 mics are ideal for public address use.

Auxiliary Input Socket(s)

All non-radio mic models incorporate a 6.35mm and 5 pin DIN socket. Radio mic models include only the 5 pin DIN Auxiliary input socket.

These sockets allow connection from a keyboard or other external source - such as an amplifier output, portable CD or mini-disc player.

- Both mic and aux inputs can be used at the same time allowing passive mixing between mic and aux inputs.

Recordings may be made by pressing the **RECORD** button. The position of **INPUT VOLUME**, **BASS** and **TREBLE** controls will not affect the recording - which is automatically set.

A Coomber 1974 patch lead allows connection to a CD player/mini disc via the **5 pin DIN aux socket**.

Output Socket(s)

The **EXTERNAL AMPLIFIER** socket provides low level mixed output. Ideal for use with Coomber booster speakers (2185 or 2186).

The 5 pin DIN socket offers a line level output for cassette playback only.

External Loudspeaker Socket (4)

External speaker (Coomber model 411) can be connected via this socket.

The socket connection is reversible. Connecting the speaker plug to the left and centre pin disconnects the internal loudspeaker. All sound will be diverted to the extension speaker.

Connecting to the centre and right pin leaves the internal speaker will remain connected. Both speakers will be equally powered, distributing the sound output over a greater distance.

Headphone Socket (5)

Connecting Mono or Stereo headphone automatically disconnects the internal loudspeaker. For safety you are advised to use only 600 ohm headphones (i.e Coomber 1929 stereo headphones).

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**.

Coomber Electronic Equipment Ltd.

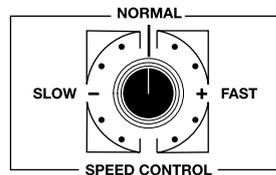
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Variable Speed (Optional)

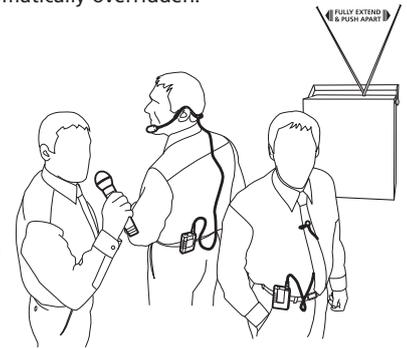
Models labelled with the suffix **/V** are fitted with a variable speed control for the cassette mechanism. The dial varies the speed of playback from -25% to +10%.

During recording, the speed control is automatically overridden.

Radio Microphone Receiver (Optional)

Models labelled with the suffix **/W** are fitted with a radio microphone receiver board and twin aeriels.

A compatible radio microphone is required. Its frequency must match the frequency of the radio receiver and is shown on the product label attached to the rear of the equipment.



Using the 1985 Handheld radio microphone

1. Extend both aeriels (6) on the 2060/W fully and pull them away from each other.
2. Switch on the 1985 handheld radio microphone using the switch fitted in the base. A red indicator will glow, showing 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 microphone switch on the top panel of the 2060/W and adjust volume to suit.

Using the 1939 Lapel or 1941 Headband radio microphone and 1986 Bodypack transmitter

The lapel and headband microphones both use a bodypack in which a transmitter is fitted. Ensure that the microphone and aerial are connected to the bodypack before use.

1. Extend both aeriels (6) on the 2060/W fully.
2. Switch on the the bodypack. A red indicator will glow showing 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 on the top panel of the 2060 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, if the radio mic is not being used.

Power ratings

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

Ratings quoted in Watts RMS using 4 ohm load.

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 reserve the right to change products and specifications without notice.

of dispatch. Any modifications to or misuse of the equipment renders this warranty void.

- All Coomber equipment is covered by a 12 months warranty against defective components or faulty manufacture from date

- Equipment that is security marked or damaged cannot under any circumstances be exchanged.