

IMPORTANT: READ CAREFULLY BEFORE USING YOUR CARTRIDGE.

Master Series ROM Cartridge

This Cartridge is designed to be used with the British Broadcasting Corporation Master Series Microcomputer. It provides the user with access to the Sideways ROM facility in the Master machine.

The Cartridge can be fitted with a variety of different ROM or EPROM types. This includes 27128, 27256 and 27513 (not 27512). Note that only the lower address half of a 27256 device, if fitted, will be selected. Up to two ROM/EPROM's of mixed type can be fitted. In this way between 16K Byte and 128K Byte of ROM can be fitted into a cartridge. The access time of the particular device type must be 250ns or less.

The Cartridge is fitted with two special "LEF" (Low Extraction Force) sockets which facilitate easy removal of a fitted device. A ROM/EPROM is plugged into the socket in the normal way **WITH PIN 1 FACING THE CARTRIDGE CONNECTOR**. To identify Pin 1, it is either marked with a dot on the top, in the corner by Pin 1, or the half-moon at one end of the chip identifies the end of the chip nearest Pin 1. To **REMOVE** a device, follow the instructions below **CAREFULLY**.

AT NO TIME MUST EXCESSIVE FORCE BE USED AS THIS CAN CAUSE PERMANENT DAMAGE TO THE SOCKET MECHANISM.

REFER TO FIGURES 1 & 2 WHILST READING THESE INSTRUCTIONS

- 1) With the module on a flat worksurface and the ROM outputs **UPWARDS**, insert a small, flat bladed screwdriver (a 1/10" blade is ideal) into the socket recess between the socket latchbar and the edge of the plastic cutout (see Figure 1). The screwdriver should be angled **AWAY** from the centre of the ROM (see Figure 2, Position 1).

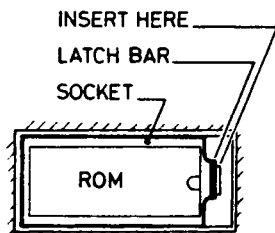


FIGURE 1

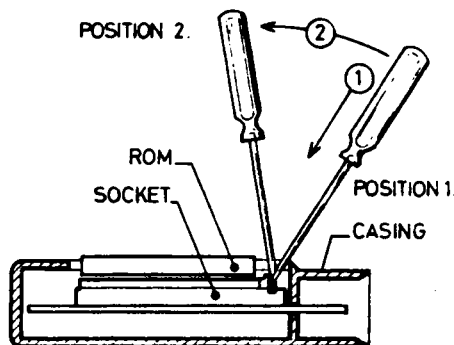


FIGURE 2

- 2) GENTLY press the screwdriver downwards to free the latch mechanism. This requires no more than 1 to 2mm of movement (see Figure 2, Arrow 1).

- 3) Move the screwdriver towards the **VERTICAL** (Arrow 2, towards Position 2 in Figure 2). At about the Vertical position, there will be a "click" as the ROM is released from the latch. The ROM may also move up from the socket by a small amount.

NOTE: DO NOT TRY TO LEVER THE SCREWDRIVER IN THE OPPOSITE DIRECTION (i.e. TOWARDS THE HORIZONTAL, AS THIS WILL CAUSE PERMANENT DAMAGE TO THE SOCKET

4) Remove the screwdriver from the recess. The latch should NOT re-lock.

5) Carefully insert the screwdriver blade under the ROM but **ABOVE THE SOCKET**, between the latchbar and the side of the ROM (see Figure 3). Lever the ROM upwards from alternate sides until it is clear of the socket.

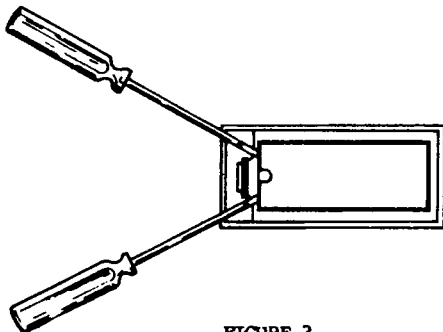


FIGURE 3

6) Either grasp the ends of the ROM between your fingers and pull it clear of the cartridge, or invert the whole assembly and tap it **GENTLY** on a firm surface until the ROM is free of the socket. The latch should return to the **LOCKED** position as the ROM is removed.

If you are unsure about the operation of the socket, try following the above instructions without a ROM present and watch the centre crossbar of the socket move between the stops nearest Pin 1 (Locked) and furthest from Pin 1 (Open).

To **INSERT** a device, first ensure that the latch is in the **LOCKED** position (i.e. the centre crossbar of the socket is against the stop nearest the Pin 1 end of the socket). Ensure that all the legs of the device are straight and at the right spacing for the socket holes. Position the device carefully on top of the socket and check that all the pins line up with the holes in the socket. With the cartridge on a flat surface, press down **GENTLY** but **FIRMLY** until you hear a clicking noise as the legs engage. If anything goes wrong, remove the device (**FOLLOWING THE INSTRUCTIONS ABOVE**) and start again.

Cartridges should only be plugged into a socket in the Master machine **WHILST IT IS SWITCHED OFF**. A Cartridge plugged into the rear Cartridge socket can access ROM positions 0 and 1. The front socket will access ROM positions 2 and 3. The ROM position usage in the machine can be displayed using the *ROMS command.

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