INDICATOR LAMP

The current limiter operates in the event of a fault occurring in a circuit connected to either "A" or "B" Sockets.

When the current limiter operates, the red Indicator lamp is illuminated, and current passing in the external circuit is reduced to a safe value, provided the control handle is not less than half-way towards the "full-speed" (or "maximum") position. Should a fault occur when the control handle is nearer the "top" (or "off") position, thus preventing current rising sufficiently to operate the limiter, the Unit will not be harmed. The current limiter will remain in this condition indefinitely or until it is automatically reset by removing the cause of the fault or by momentarily returning the control handle to the 'off' position.

Should the indicator lamp require replacement, it can be removed by unscrewing the cap and withdrawing the lamp-holder. A broken or burnt-out lamp will in no way affect the functioning of the Unit.

If you require further information please write to Information Service, Meccano Ltd., Binns Road, Liverpool 13, or to Meccano Ltd., 22 Berkeley Square, London, W.1.

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INSTRUCTIONS
for
POWER CONTROL UNIT A3

FOR USE ON ALTERNATING CURRENT SUPPLIES ONLY

The Power Control Unit provides a reliable and safe method of obtaining both alternating and direct current supplies of low voltage (12-15 volts) from A.C. mains. It must **NOT** be connected to D.C. (Direct or continuous current) supply mains. The Power Control Unit must be mounted in a horizontal position to ensure the correct operation of the current limiter.

INPUT

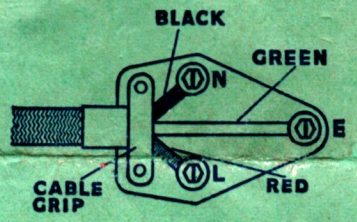

Fig. 1

The three-core flex provided with this unit is intended to be used with a three-pin plug and socket. If your plug is of this type it should be connected in the following manner:-

(*a*) Connect the red and the black flex leads to the terminals of the two smaller pins of the plug. These are the supply terminals.

(*b*) Connect the green flex lead, which is the earth, to the terminal of the remaining larger pin of the plug. (see Fig. 1).

If the plug is of the two-pin variety the red and the black flex leads ONLY must be connected. The green earth lead should be trimmed in the manner indicated in Fig. 2.

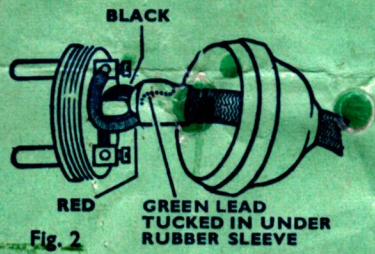

Fig. 2

ON NO ACCOUNT MUST THE EARTH LEAD BE CONNECTED TO EITHER OF THE SUPPLY TERMINALS.

Unless you are confident of your ability to make the plug connections efficiently, we strongly recommend you to employ the services of a competent electrician.

OUTPUT

The output is obtained from the three pairs of Sockets A, B, C, of the output panel illustrated below. Special plugs are provided for making the connections. Both A and B circuits are protected from overload by the self-resetting current limiter.

12 VOLT
D.C. FIXED OUTPUT
(ALTERNATIVE TO "A")
FOR SPECIAL
ACCESSORIES

15 VOLT
A.C. OUTPUT FOR
CONNECTING TO
ACCESSORIES AND/OR
SEPARATE CONTROLLER

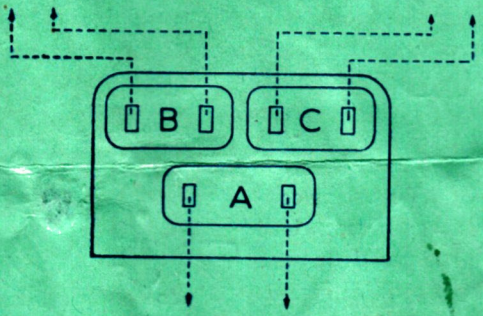

Fig. 3

12 VOLT
CONTROLLED D.C. OUTPUT
FOR OPERATING
ELECTRIC MECHANISM

"A" Sockets

"A" Sockets 10 watts at 12 volts D.C., this output being regulated from "off" to maximum by means of the speed and reverse control handle mounted on the top of the Power Unit case.

This output is intended for operating one electric mechanism, although it may be used to work two mechanisms coupled together, i.e., for double heading, provided the control handle is advanced slowly towards maximum to avoid premature operation of the current limiter.

The leads from these sockets are taken directly to the terminals, which convey current to the mechanism. (If the mechanism travels in a direction contrary to that indicated by the control handle, the plugs in Sockets "A" should be changed over)

"B" Sockets

These are intended for use where a fixed D.C. supply is required for operating special accessories. It should be noted that the outputs from "A" and "B" Sockets are both protected by the current limiter, and the combined outputs from "A" and "B" Sockets at any instant must not be such as to cause the current limiter to operate.

"C" Sockets

Fixed A.C. output of 15 watts at 15 volts. For working independently a second mechanism through a C3 Controller. Electrically-operated accessories should also be connected to "C" Sockets, unless the special instructions provided with the accessories indicate that D.C. supply is required.