

ENGLISH CLOCK SYSTEMS

A BRANCH OF THE CLOCK & WATCH DIVISION OF S. SMITH & SONS (ENGLAND) LTD

RELYON

TIME SWITCHES FOR A.C. MAINS

INSTALLATION AND SETTING INSTRUCTIONS

For Model MB/DO

ENGLISH CLOCK SYSTEMS

HEAD OFFICE : 179-185 GT. PORTLAND STREET, LONDON, W.1
LANgham 7226

MIDLAND SALES OFFICE: 184 CORPORATION STREET, BIRMINGHAM 4

NORTHERN SALES OFFICE: YORK HOUSE, 12 YORK STREET, MANCHESTER 2

SCOTTISH SALES OFFICE: 123-145 NORTH STREET, GLASGOW, C.3

NORTHERN IRELAND SALES OFFICE 19 ORMEAU AVENUE, BELFAST

RELYON TIME SWITCHES

Model MB/DO

INSTALLATION INSTRUCTIONS

1. Open cover of unit by unfastening the clip on the right hand side of the case.
2. Unfasten the two retaining clips at the top of the moulding by moving them away from the moulding.
3. Remove the unit from the case by gripping with the fingers at the top and bottom of the moulding.

DO NOT GRIP THE DIAL WHEN REMOVING THE UNIT FROM THE CASE

4. Secure the case to the wall by means of screws through the three mounting holes provided, i.e. one hole at the top of the case and two holes at the bottom.
5. Wire exactly as per wiring diagram on the black moulding of the unit. If in any doubt, consult your local electrician.
6. If it is desired to bring the external wiring into the case from the top instead of the bottom, then change over the rubber moulded plugs provided.
7. **The switch must be earthed** by using the earth terminal provided in the top left hand corner of the case.
8. Replace switch unit making sure that the pins are pushed well home.
9. Secure fixing clips at the top of the case.
10. The motor is self-starting and will operate immediately it is connected to A.C. mains of correct voltage and cycles.

CAUTION

UNDER NO CIRCUMSTANCES SHOULD THE **DIAL** BE TURNED IN AN ANTI-CLOCKWISE DIRECTION.

Setting

1. First remove the Dial Tappets and with the M.O. Button in the neutral position, turn the dial—CLOCKWISE—to the correct time of day.

2. The position of the contacts may be seen by reversing the unit and viewing same from the back, *fig. 4*. The contacts appear in the top left of the unit and if these are incorrectly set, i.e. open when required closed or vice versa, attach a dial tappet to the rim of the dial to the left of the M.O. Button, rotate the dial—clockwise—until the dial tappet appears to the right of the M.O. Button and it will be found that the contacts are reversed.

3. Remove the dial tappet and re-set the time of day rotating the dial in a clockwise direction.

4. The Dial Tappets may now be fixed to the rim of the dial in the correct 'Off' and 'On' positions required.

NOTE.—THE TAPPETS SHOULD BE **SECURELY** FIXED TO THE RIM BY MEANS OF THE KNURLED HEADED SCREWS PROVIDED. ADDITIONAL TAPPETS AVAILABLE ON REQUEST.

5. The Day Change Rotor to the right of the dial, *fig. 5* should now be set to the correct day. Rotate the Day Change Rotor—ANTI-CLOCKWISE—until the correct day is opposite the arrow. The rotor requires little pressure to move and will readily 'click' into each day position when rotated.

Day Omitting Device

This feature allows any number of predetermined days to be omitted from the automatic Time Programme. As an example, these omissions may be so arranged to allow the switch to work normally from Monday to Friday and then cut out completely for Saturday and Sunday. Any day or combination of days may be 'blanked out' of the Time Programme by pulling out the small cam immediately below each day name on the Day Omitting Rotor.

It is of great importance that the change of day does not fall in an 'on' period of the switch. In the event of an 'on' period finishing near the Change of Day point, an adjustment has been incorporated allowing this change to be varied.

By slackening (not removing) the two screws in the centre of the dial the time of change may be varied between 10 p.m. and 2 a.m. These times appear in the panel immediately below the word NIGHT on the dial and by moving the screws this time may be altered. The appropriate hour should be set opposite the arrow and the screws re-tightened. Thus, if an 'on' period finishes at 11 p.m. then the Day Change should be set to occur after this time (say 12 p.m.).

Testing

Should the Time Programme be so arranged that the installation be carried out during an 'off' period then the switch may be tested by use of the M.O. Button. This may be switched to the 'ON' position to close the circuit.

Manual Operating Button

The advantage of the M.O. Button is that the switch can be tested or switched on or off without upsetting the Time Programme.

If it is required to turn the switch either off or on out of sequence with the Time Programme, then the M.O. Button may be employed by turning it either to ON or OFF positions. The Switch is so designed as to allow the Button to return to the neutral position at the next automatic change in the Time Programme and the switch will then continue to work automatically until such times as a further 'out of sequence' change is required when the M.O. Button may again be employed.

