

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 Models SP/20/1 & MB/TS

ENGLISH CLOCK SYSTEMS

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RELYON TIME SWITCHES

Models SP/20/1, MB/TS

INSTALLATION INSTRUCTIONS FOR BOTH MODELS

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.

Model SP/20/1 (Double Circuit)

Setting

The 2 circuits are independently wired and controlled. The 1st circuit is operated by the top tappets and the 2nd circuit by the lower tappets. (See wiring diagram printed on moulding.) Two sets of tappets are supplied for each circuit, i.e. sufficient to permit two on/off operations each 24 hours on both circuits. If only one on/off operation is required, remove one pair of tappets. Additional tappets can be fitted to give up to twelve on/off operations on both circuits.

1. The Dial Tappets should be attached to the rim of the dial at the times required for the Switch 'ON' and Switch 'OFF'.

NOTE.—THE TAPPETS SHOULD BE SCREWED ON TO THE RIM **SECURELY** BY MEANS OF THE KNURLED HEADED SCREWS PROVIDED.

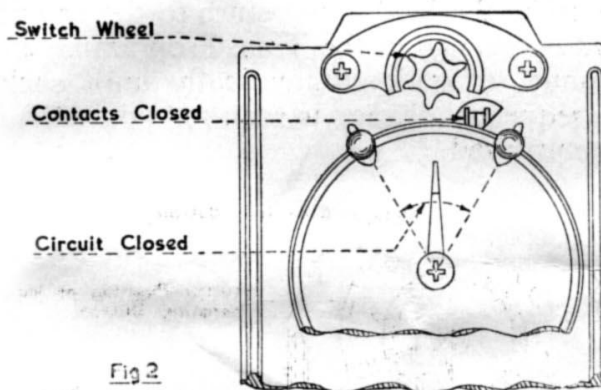
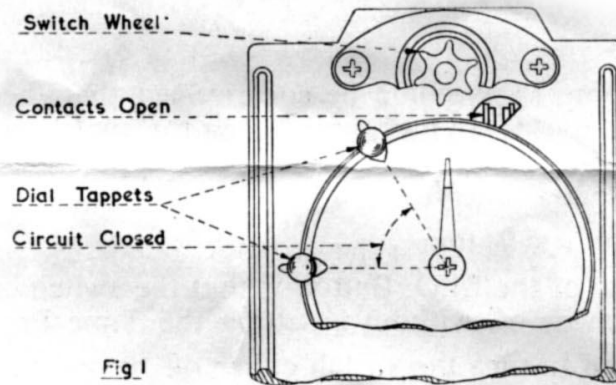
CAUTION

UNDER NO CIRCUMSTANCES SHOULD THE **SWITCH WHEEL** BE TURNED IN A CLOCKWISE DIRECTION.

2. The dial should be turned in a **CLOCKWISE** direction to the correct time of day.

3. When settings are required to 'switch **on**' at a time of day later than a time to which the clock has been set, adjust as indicated in *fig. 1*, i.e. turn the appropriate switch wheel at the top of the unit in an **ANTI-CLOCKWISE** direction until the contacts being operated are in an open position.

4. Alternatively, when settings are required to 'switch **off**' at a time of day later than the time to which the clock has been set, adjust as indicated in *fig. 2*, i.e. turn the switch wheel in an **ANTI-CLOCKWISE** direction until the contacts being operated are in a closed position.



CAUTION

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

Model MB/TS (Single Circuit)

Setting

1. First remove the Dial Tappets and with the Manual Operating Button in the neutral position, turn the dial—clockwise—to the correct time of day.

2. The position of the contacts may be seen through the aperture to the lower right hand of the M.O. Button *fig. 3*. If these are incorrectly set, i.e. open when required closed or vice versa, attach a dial tappet to the rim on the left of the M.O. Button, rotate the dial—clockwise—until the tappet appears to the right of the M.O. Button and it will be found that the contacts are now in the position required.

3. Remove the dial tappet and re-set the time of day by turning the Dial—clockwise—to the correct time.

4. The Dial Tappets may now be fixed to the rim of the dial in the correct 'ON' and 'OFF' positions required. Two tappets are supplied with this model. Additional tappets available on request.

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

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.

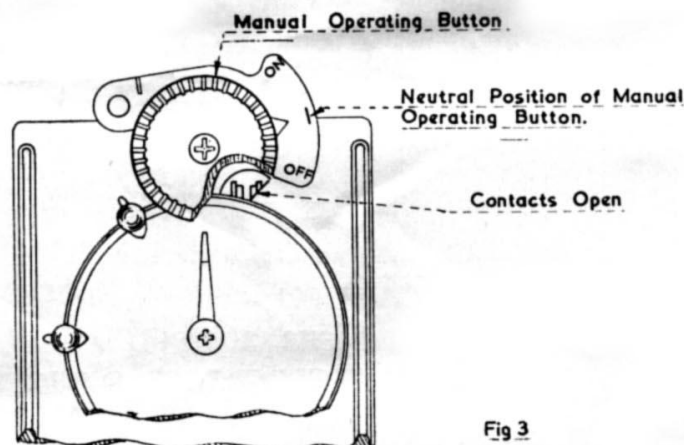


Fig 3