



ABBERFIELD

INDUSTRIES

PTY LTD ABN 61 000 112 569

CT10MP

*series*

**COIN  
OPERATED  
TIME  
SWITCHES**

**CT10 MP DESIGNATES:- COIN TIMERS SERIES 10**

Series 10 refers to those units using separate moulded interior mechanism, with an all enclosing metal cover incorporating top coin entry. The descriptive information enclosed refers to models CT10MP & CT10MP-R. However in many respects the information is relevant to all other CT10 series units.

**CT10MP SERIES ARE SUPERSEDED BY THE CT10F OR CT10MF UNITS.**

## TECHNICAL & SERVICE DETAILS

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# INSTALLATION INSTRUCTIONS FOR COIN OPERATED TIME SWITCH

## INSTALLATION

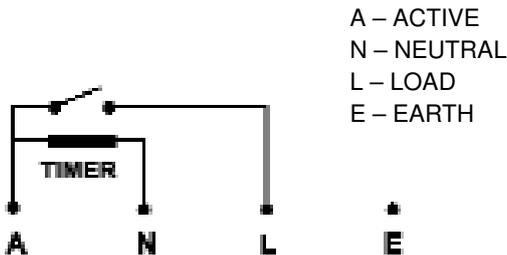
This equipment should be secured firmly to reduce the risk of unauthorised entry. Do not install equipment so that key side is closer than 150mm to any adjoining unit or to other obstruction. Also an allowance of 50mm between hinge side of cover and any obstruction should be made. This allows room for removal of cover. Do not over tighten mounting screws as this may distort the coin track.

## COIN CLEARANCE

When opening the equipment for clearance, depress the lock side of cover to release tension on lock mechanism. Avoid over filling of tray - this may cause the equipment to "shut down".

## ELECTRICAL

Standard coin timers CT10MP (10 Amp switching) and CT10 MP-R (25 Amp switching) are wired to switch the active wire only. After installation, check that active and neutral wires have not been reversed. Double Insulation leads should be used and firmly secured with the cable clamp. If installed as a low voltage coin timer, use a large conductor size to minimise voltage drops.



CT10MP Circuit Diagram

## VOLTAGE

Units are available for standard 240V or 12V volts (specify).

## OPERATING INSTRUCTIONS

Thumbwheel switches are provided in the lower right hand corner of the mechanism. These set the number of coins to start an operation (1 to 99) and the time per coin of that operation (0.1 to 99.9 minutes). Next to those switches is a socket to accept a programme plug. To adjust thumbwheels or change plugs, first remove cover with label. To determine the programme used, read label on programme plug.

The number of coins is usually set at 1 and the time set is that required for one coin. Additional coins (up to 99) can be inserted to increase the operating time.

If required, a minimum charge is obtained by dialling more than one coin (1 to 99). The load circuit will then not energise until the preset

number of coins are inserted. The operating time will be the number of coins multiplied by the set time. Each additional coin inserted after the minimum number will add the set time to the time period.

## EXAMPLES

- Setting 01 coin 30.0 minutes (set 01 300) 1 coin would give 30 minutes and 2 coins 60 minutes.
- Setting 05 coin 06.0 minutes (set 05 060). Requires the first 5 coins to give 30 minutes of operation, 6 coins would then give 36 minutes.

## GUARANTEE

This equipment is guaranteed against faulty manufacture or component failure as per standard terms and conditions of sale PROVIDING it is installed correctly and not subject to abuse.

## WARNING

**Test equipment with the cover on or in a shaded position as daylight may prevent proper operation.**

## SERVICE

Service to this equipment should only be carried out by a qualified electrician or the manufacturers.

**INSIDE EACH CT10 SERIES COIN OPERATED TIME SWITCH COVER ARE THE FOLLOWING INSTALLATION INSTRUCTIONS.**

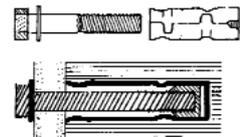
## DRILLING TEMPLATE

ABBERFIELD TECHNOLOGY  
SERIES 10 COIN EQUIPMENT

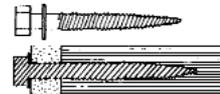
- Mount this template Square, drilling holes in each corner.
- If using recommended fasteners drill wall with 12mm (1/2") masonry drill to a depth of 40mm (1 1/2").
- Ensure holes remain on centre and correct errors if necessary. Fill washers to bolts and press through each mounting plate hole.
- Screw fasteners on loosely.
- Engage fasteners in holes and press back plate into position. If necessary tap head of bolts with a hammer to ensure fasteners are fully depressed.
- Lightly tighten back plate bolts.
- If necessary tap edge of back plate with a hammer to ensure the plate is square.
- Tighten bolts.

NOTE: INSTALLATION INSTRUCTIONS ON LABEL INSIDE EQUIPMENT

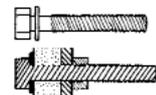
Masonry Fastening  
Recommended Fastener (Loxen)  
Alternate-Expander Bolt



Timber wall Fastening



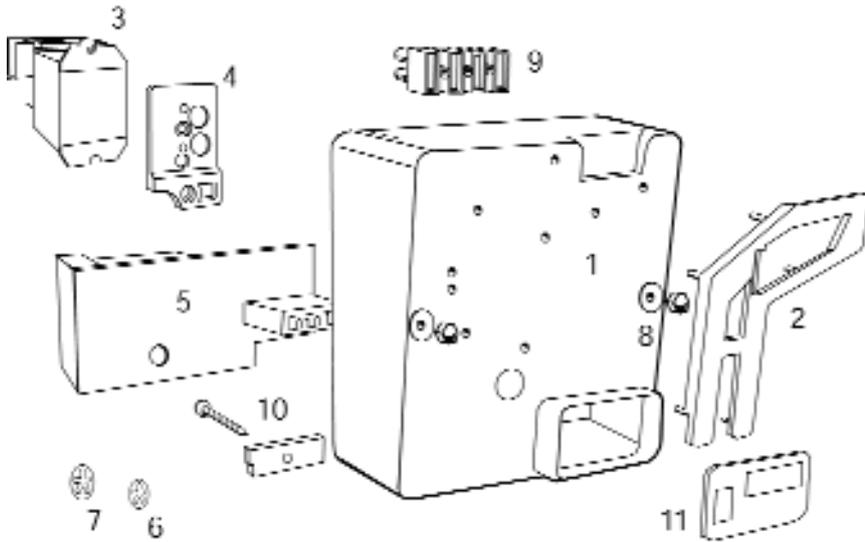
Panel Mounting Fastening



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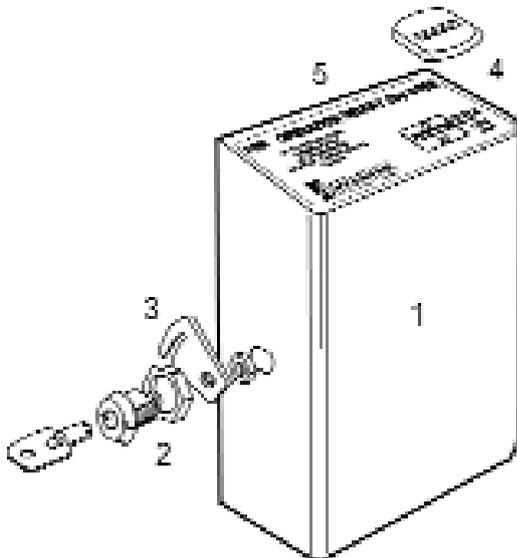
## MOUNTING

Supplied with each CT10 series coin operated time switch is a printed, cardboard drilling template, (shown above - not to scale).



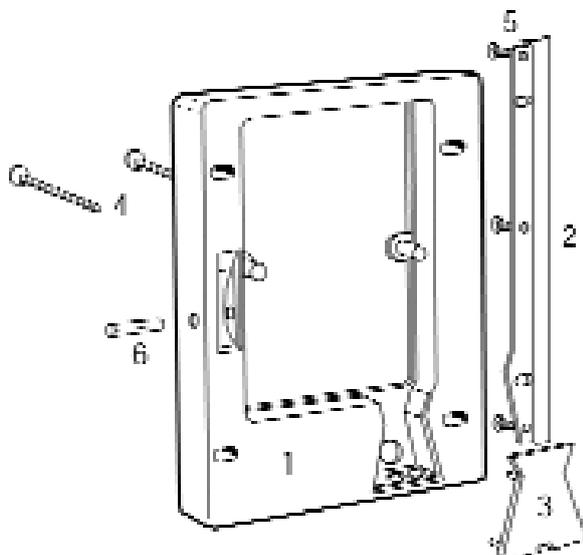
**CT10MP SERIES INTERIOR**

1. CT10MP Interior moulding.
2. Coin track.  
(various coins and tokens.)
3. 25 amp relay.  
(Model CT10MPR only)
4. Relay bracket.
5. Control board.
6. Small push on nut.  
(11 per set)
7. Large push on nut.  
(3 per set)
8. 3/16" Whit. acorn nut.  
(2 per set)
9. Terminal block.
10. Cable clamp and thread cutting screw.
11. Thumb wheel switch cover.



**CT10MP SERIES COVER**

1. Cover.
2. Lock assembly.
3. Lock cam.
4. Escutcheon and two M3 screws  
(various coins and tokens).
5. Instruction label.
6. Installation label (inside cover).



**CT10MP SERIES BACKPLATE ASSEMBLY**

1. Base moulding.
2. Hinge plate.
3. Cable dead front.
4. Interior screws  
(21/4" x 3/16th" Whitworth).
5. Hinge plate screws  
(3/16th" x 1/2" thread cutting).
6. Locking pin (3/16th" x 3/4").

**CHANGE OF COIN OF OPERATION**

Change Conversion Kits are available so that the coin of operation can be changed, rather than replacing the coin timer. The kit contains:

- Coin track
- Coin entrance escutcheon
- Top cover label
- Instruction label

The old coin track is removed and the new track fitted. The old coin escutcheon and label is removed and any surplus label adhesive is removed with Methylated Spirits or similar solvent.

Fit the new label squarely in position. If un-skilled, soak the label in soapy water before fitting. This will allow the label to be re-positioned and allow air to be squeezed from under the label.

**COVER**

The cover is designed to have some 'spring' in the hinge. This means that when closing the cover, slight resistance is felt just at the end of its travel. This is intended to stop the cover being loose and 'rattling'. A loose cover may suggest inferior security and is an invitation to vandalism. Also this tension 'loads' the lock assembly, making it more difficult for would-be lock pickers.

**KEYS**

To maximise internal security no records are kept of the key numbers used by Abberfield Technology's customers.

When deliveries are made, all units in each order should have the same key number. This key number is unlikely to have been supplied on earlier deliveries as several dozen key numbers are in use. The lock manufacturers have designated these numbers for supply to Abberfield Technology only.

Therefore the opening of these coin operated time switches by other keys is highly unlikely. If a key is lost it is to be hoped that the customer has recorded the number (imprinted on the key, not on the lock) so that replacements can be supplied. As the equipment is designed to exclude forceful entry the loss of a key can cause great difficulties,

**FASTENERS**

Coin tracks are held on by push on nuts for economy reasons, and the need to doubly insulate, by using plastic mounting pins. If necessary these nuts are easily removed by first prising up one edge of the nut, and then cutting through the outer edge with small side-cutters.

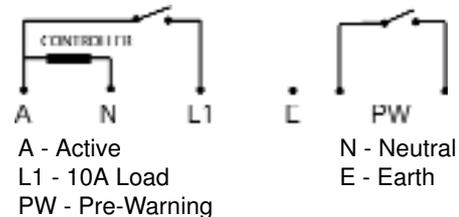
**DATE CODING**

The rating label usually carries a date coding in the top left-hand corner. This comprises the month followed by the last digit of the year, for example December 1992 would be 122. Services are usually coded in a similar way but have a prefix 'S' e.g. 'S122'.

**CT10MP VARIATIONS**

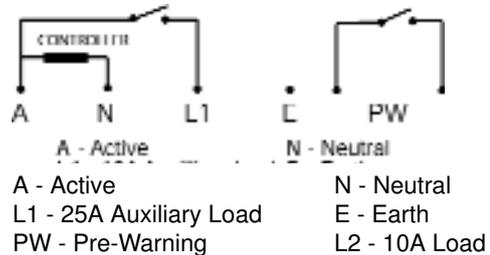
**PRE-WARNING**

If the model number includes a suffix PW (CT10MP-PW / CT10MPR-PW) the coin timer will be fitted with a pre-warning device. This gives warning that the power is soon to be disconnected. As standard, a set of contacts operate for 5 seconds, 2 minutes before time out, used to operate a remote alarm. Alternate operating sequences can be provided and require the addition of a program plug next to the time setting thumb wheels.



**FLOODLIGHT CONTROL**

If the model number includes a suffix FL (CT10MP-FL) the coin timer will have been converted for control of lights needing a cool down period between operations. A pre-warning circuit is set for 5 seconds on, 4 minutes before turning off the main supply. Time can be extended but when off the output cannot be re-operated for 10 minutes. During this cool down period a 25 amp circuit operates, to control auxiliary lights. The main circuit is 10 amp rated as large lights would be controlled by an external contactor.



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