

# CT10MF *series*

## COIN OPERATED TIME SWITCHES

**CT10MF DESIGNATES: COIN TIMER SERIES 10  
ELECTRONICALLY OPERATED & MULTI FUNCTIONAL**

Series 10 refers to those units using separate moulded interior mechanism, with an all enclosing metal cover incorporating top coin entry.

## TECHNICAL & SERVICE DETAILS

**ABBERFIELD INDUSTRIES PTY LTD**  
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# Installation & Wiring Instructions for COIN OPERATED TIME SWITCH

## INSTALLATION

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

## COIN CLEARANCE

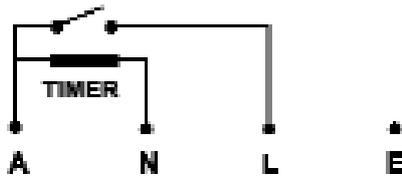
When opening equipment for clearance, depress the lock side of cover to release tension on lock mechanism. Avoid over filling of coin tray as this may cause the equipment to "shut down".

## KEY NUMBER

The key number imprinted on the key should be recorded. Replacement keys may be available on request.

## ELECTRICAL

CT10MF coin timers are wired to switch the active wire only and are rated at 25amps capacity. 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.



A – ACTIVE  
N – NEUTRAL  
L – LOAD  
E – EARTH

CT10F - 25 amp rated.  
CT10F-PR - 45 amp rated.

**MODEL CT10F-PR** is 35 amp capacity.

## VOLTAGE

Units are available for standard 240Volt or 12Volt low voltage.

## OPERATING INSTRUCTIONS

Thumb wheel switches are in the lower right corner of the mechanism.

First two thumb-wheel switches sets the number of coins to be inserted before timer starts. The third fourth and fifth thumb-wheel switch sets the time per coin in minutes and tenths of minutes (from 1 to 99.9 minutes). Example: Thumb-wheel setting 02-01.5 = two coins start for 1.5 minutes per coin = 3 minute operating time.

## NOTE

This equipment will retain memory of time in credit during a power failure. If this stored time credit is to be cancelled change any of the thumb-wheel switches and then reset the switch to the required operating time. Alternatively, place a coin against the moulded interior, underneath the coin sensor at the bottom end of the coin track and slide the coin up. This will look like a coin on a string being pulled backwards and will cause the timer to cancel all credit.

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

### DRILLING TEMPLATE

**ABBERFIELD INDUSTRIES**  
SERIES 10 COIN EQUIPMENT

1. Mount this template Square, drilling holes in each corner.
2. If using recommended fasteners drill wall with 12mm (1/2") masonry drill to a depth of 40mm (1 1/2").
3. Ensure holes remain on centre and correct errors if necessary. Fill washers to bolts and press through each mounting plate hole.
4. Screw fasteners on loosely.
5. 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.
6. Lightly tighten back plate bolts.
7. If necessary tap edge of back plate with a hammer to ensure the plate is square.
8. Tighten bolts.

**NOTE: INSTALLATION INSTRUCTIONS ON LABEL INSIDE EQUIPMENT**

**Masonry Fastening**  
Recommended Fastener (Loxer)  
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).

**COIN OPERATED TIME SWITCHES**  
**SERIES: CT10-MF**

**INSTALLATION**

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

**COIN CLEARANCE**

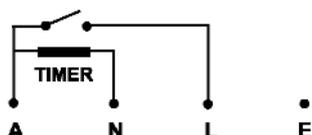
When opening equipment for clearance, depress the lock side of cover to release tension on lock mechanism. Avoid over filling of coin tray, this may cause the equipment to "shut down".

**KEY NUMBER**

The key number imprinted on the key should be recorded. Replacement keys may be available on request.

**ELECTRICAL**

Standard coin timers CT10-MF (25 Amp switching) and CT10-MF-PR (35 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.



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**OPERATING INSTRUCTIONS**

Thumb wheel 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). To adjust thumb wheels first remove cover with label.

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

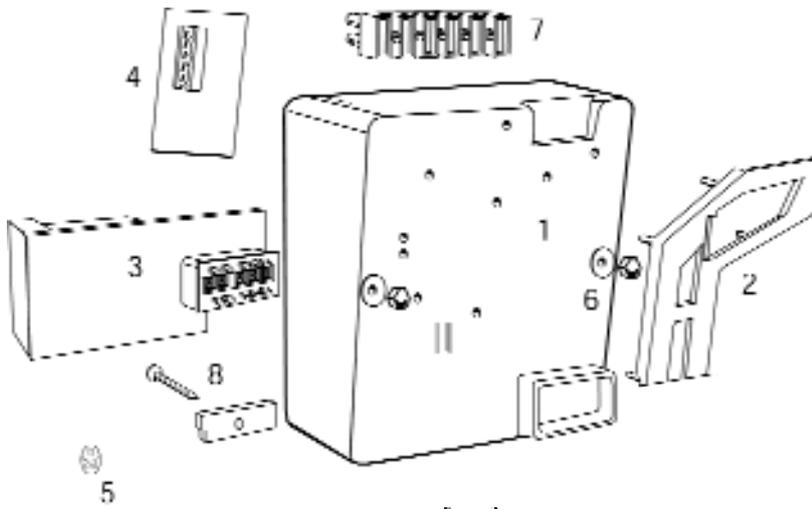
If required, a minimum charge is obtained by dialling more than one coin (1 to 99). The load circuit will then not energise until the preset number of coins are inserted. The operating time will be the number of coins multiplied by the set time. Each additional coin inserted after the minimum number will add the set time to the time period.

**EXAMPLES**

1. Setting 01 coin 30.0 minutes (set 01 300) 1 coin would give 30 minutes and 2 coins 60 minutes.
2. 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.

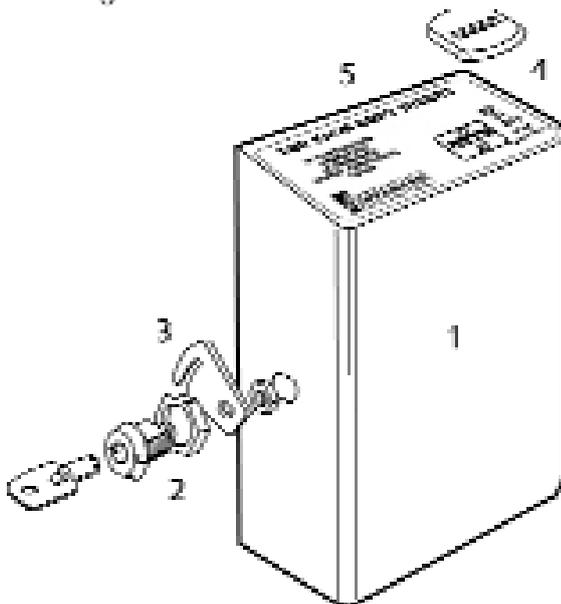
**GUARANTEE**

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 subjected to abuse.



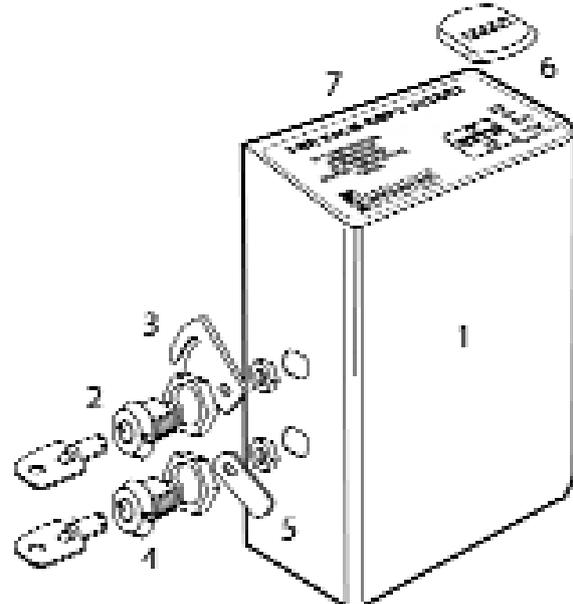
**CT10MD SERIES INTERIOR**

1. CT10MD Interior moulding.
2. Coin track.
3. Control board.
4. Interface board.
5. Small push on nut.  
(7 per set)
6. 3/16" Whit. acorn nut.  
(2 per set)
7. Terminal block.
8. Cable clamp and thread cutting screw.



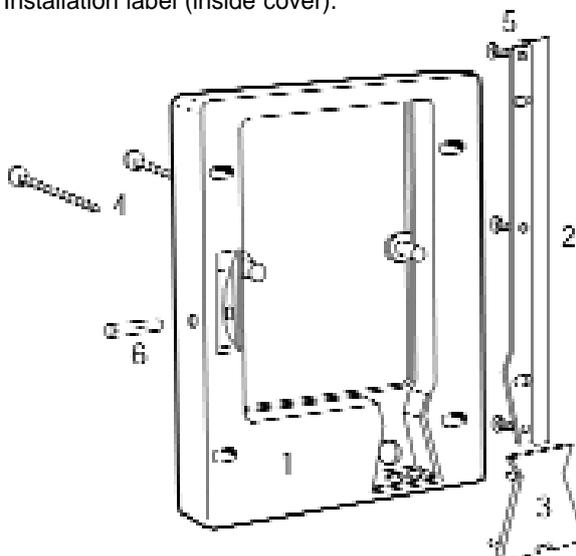
**CT10MD SERIES COVER**

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



**CT10MD SERIES COVER WITH OPTIONAL BY-PASS**

1. Cover (standard colour dark grey).
2. Lock assembly.
3. Lock cam.
4. Key by-pass lock.
5. Key by-pass cam.
6. Escutcheon and two M3 nuts (various coins and tokens).
7. Instruction label.
8. Installation label (inside cover).



**CT10MD SERIES BACKPLATE ASSEMBLY**

1. Base moulding.
2. Hinge plate.
3. Cable dead front.
4. Interior screws  
(2 1/4" 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**

Coin 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 cleaned with methylated spirits or similar solvent.

Fit the new label squarely in position. If un-skilled, wet 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.

**FASTENERS**

Coin tracks are held on by push on nuts. 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.

**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.

The cover overlaps the moulded back plate to give excellent splash protection, rated at IP 5.5.

**KEYS**

To maximise internal security no records are kept of the key numbers used by Abberfield Industrie'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 Industries 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.

**SERVICE**

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

**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.

**Also Produced By Abberfield Industries**

**COIN OPERATED TIME SWITCHES**

**COIN OPERATED POWER SWITCHES**

**COIN SHOWER CONTROL**

**STAND PIPE CONTROL**

**COIN PHOTOCOPY CONTROL**

**COIN BARBECUE CONTROL**

**COIN BOOM GATE CONTROL**

**COIN VALIDATORS**

**TICKETING EQUIPMENT**

**CHANGE GIVING MACHINES**



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