

# CT20F

*series*

**COIN  
OPERATED  
TIME  
SWITCHES**

**CT20F DESIGNATES: COIN TIME SWITCH SERIES 20  
ELECTRONICALLY OPERATED WITH FIXED PROGRAMS**

Series 20 refers to those units intended for building into customers machines or into one of the many special purpose housings produced by Abberfield Industries.

## **TECHNICAL & SERVICE DETAILS**

**ABBERFIELD INDUSTRIES PTY LTD**

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## Description

Abberfield Industries coin time switch model CT20F is a general purpose controller of electrical circuits, based on coin insertion for a time operation.

A bare construction, with electronics encased for mechanical and electrical protection.

Intended for installation into customers machines as a flush external neat appearance.

Alternatively, for installation into one of Abberfield Industries special housings, including through wall mounting, pedestal or pole mount.

The upgraded model (CT20MF) has multi- function capabilities. This data sheet covers CT20F only.

For full details refer to specification data on Abberfield's internet site:

[www.abberfield.com.au](http://www.abberfield.com.au)

Available with or without undersize coin return



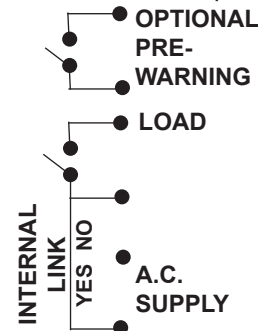
## Electrical

Wiring connections are made via a 6-pin green screw connect plug socket. This permits unplugging without unwiring.

CT20F coin timers are mainly wired to switch the active wire only and are rated at 15amps capacity. However the CT20F can be re-configured at the factory to have load contacts that are independent of supply (or isolated contacts). Please consult the instruction label to identify the configuration of the LOAD wiring.

**INTERNAL LINK YES:** LOAD output is switching the active wire.

**INTERNAL LINK NO:** LOAD output is isolated contacts.



### Optional Pre-Warning

CT20F coin timers can have an internal pre-warning relay installed as a factory adjustment. The pre-warning relay is rated at 10amps and is isolated.

The optional pre-warning relay gives warning of power disconnection. Relay closes for 6 seconds, 2 minutes before time runs out

### Voltage

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

### Operating Instructions

Thumb-wheel switches and a toggle switch are located on the circuit board, also a light above the toggle switch flashes during power up and when coins are inserted.

**Toggle switch down:** The first coin will start the time (additional coins can be inserted to increase the time). Thumb-wheel switches will set the time in minutes per coin. (from 1 to 999 mins)

**Example 1:** Thumb-wheel setting 015 = 15 minutes per coin.

**Example 2:** Thumb-wheel setting 115 = 115 minutes per coin.

**Toggle switch Up:** The first thumb-wheel switch sets the number of coins to be inserted before the timer starts. Second and third thumb-wheel switch sets the time per coin in minutes (from 1 to 99 minutes).

**Example:** Thumb-wheel setting 230 = two coins start for 30 mins per coin = 1 hour operating time.

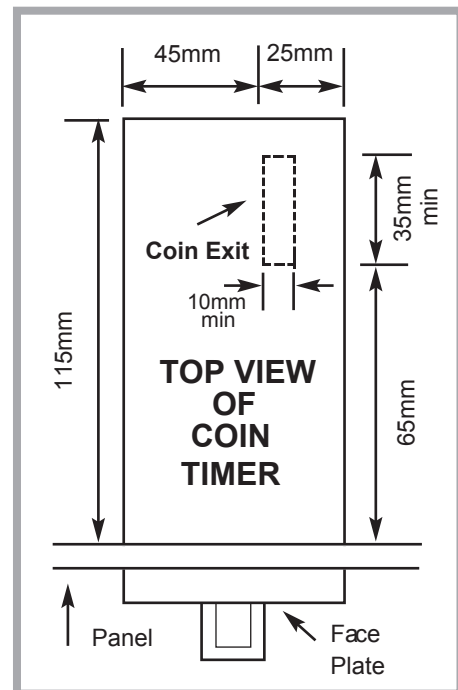
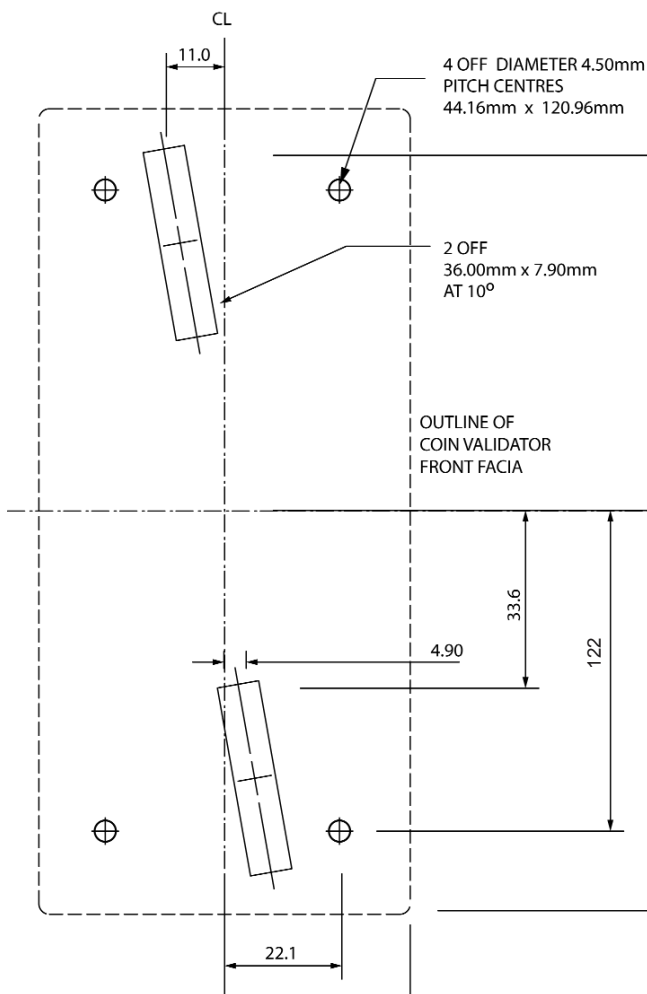
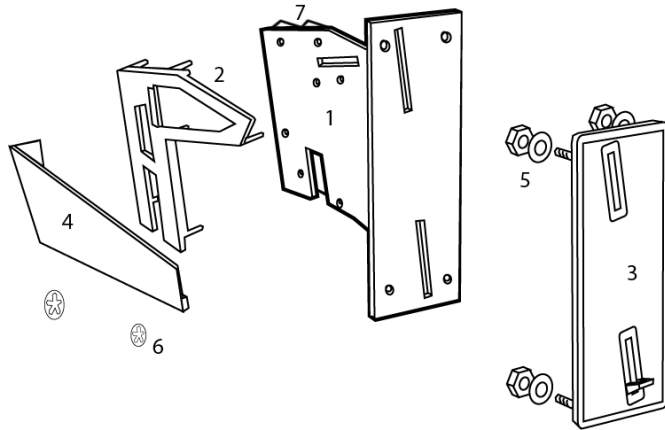
**Note:** This equipment will retain memory of time in credit during a power failure. If this stored time credit is to be cancelled change the thumb-wheel switches and then reset the switch to the required operating time. Alternatively, place a coin against the moulded interior, underneath the coin sensor at the bottom end of 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.

## Mounting Details

Panel mounting is achieved by fitting the face plate on one side of the panel and the coin timer on the other. Slip fitting is possible with the addition of a mounting bracket to the bottom mounting screws. Screws through this extra bracket are usually covered by a cash box fascia.

The bottom coin return slot is only used if a reject coin feature is used.

1. CT20F main moulding
2. Coin track
3. Face Plate
4. Return chute (optional)
5. Face plate nut & washer set (M4)
6. Push on nut
7. Circuit board & cover



## Instruction Label

Attached to the side of the CT20F coin operated time switch are the following instructions.

**CT20F COIN OPERATED TIME SWITCH**

**TOGGLE SWITCH UP**  
The left thumbwheel sets the number of coins before operation will commence. The second and third thumbwheels set the number of minutes of operation per coin inserted.

**TOGGLE SWITCH DOWN**  
All three thumbwheel switches set the number of minutes of operation per coin inserted. This setting will always operate on the first coin inserted.

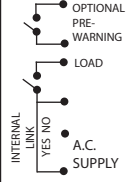
**OPTIONAL PRE-WARNING**  
Optional second relay gives warning of power disconnection. Relay closes for 6 seconds, 2 minutes before time runs out (alternate warning functions available).

**ELECTRICAL**  
Wiring connections via a screw connect plug socket. This permits unplugging, without unwiring. Main relay normally 15 amps, pre-warning relay 10 amps. Load contacts can be independent of supply as a factory adjustment.

**ADDITIONAL OPTIONS**  
\* coin by-pass input.  
\* coin counter outputs.  
\* increased load currents.

Model variations permit:-

MODEL CT20F			
	coins	minutes tens	minutes units
up	# of coins to start	MINUTES FROM 1	..... 99
down	minutes hundreds	minutes tens	minutes units
	MINUTES FROM 1	..... 999	




MODEL CT20F .....

S/N .....

SWITCH RATING .....

VOLTAGE .....



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## Change of Coin 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 (with push on nuts included)
- Coin face plate

The old coin track is removed and the new track fitted.

### 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.

### 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

PUSH BUTTON TIMERS

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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