



ABBERFIELD

INDUSTRIES

PTY LTD ABN 61 000 112 569

PC171

PHOTOCOPY CONTROLLER

**PC171 DESIGNATES:- PHOTOCOPIER CONTROLLER SERIES 171
ELECTRONICALLY OPERATED BY DIFFERENT COINS
(MULTI-DENOMINATIONAL)**

TECHNICAL & SERVICE DETAILS

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PC171 CONTROLLER

Similar in concept to the PC151 but the PC171 operates on ten cent, twenty cent, one dollar and two dollar coins.

OPERATION

10¢, 20¢, \$1.00 and \$2.00 coins may be inserted to accumulate credit.

When the price set for a photocopy is equalled or exceeded, the photocopier will be enabled and may be operated normally.

As each copy is taken the photocopier must give a voltage pulse to down count the accumulated credit.

DOUBLE PRICE (A3 input)

A set of inputs can be used to require twice the set copy price to be inserted before the copier is enabled. Each copy down count pulse deducts this new copy price.

OPTIONAL DISPLAY

The addition of CC to the model number (PC171CC) includes a display of the value in credit, showing through the label on top of the cover.

ELECTRICAL

The coin system operates off 240 Volts and a mains lead is provided.

The controller normally plugs into the photocopier copy key count socket or equivalent, after the loop connection that normally shorted out the socket has been removed. The coin controller then enables or disables this loop.

Copy taken pulses from the photocopy machine normally appear on this socket as a 24 Volt A.C. signal, but the coin controller will accept anything between 2Volt to 30Volt A.C. or D.C. A lead is provided for the installation and plugs directly onto the controllers interface board.

If the **double price** option is required a steady state signal is also required from the photocopier. This signal can be from 2 to 30 Volts A.C. or D.C.



The copy down count pulse from the copy machine is almost always a 24 Volt rising signal.

However there are some photocopy machines that maintain the signal level and ground the signal. This can still be accommodated by special programming of the PC171. Please refer to the Abberfield Service Department for details.

The down count pulse needs to be timed to ensure correct control of the photocopy machine. If the pulse is too early some machines may issue an incomplete copy. If too late some machines may allow an additional copy in excess of the credit provided. Correctly timing the pulse is achieved by setting a "Copy Pulse Delay" thumb wheel switch.

Label inside the cover

COIN VALIDATORS

SERIES: **PC171**

Accepts different coin denominations to accumulate credit, (up to \$99.90).

When the copy price is reached the photocopy enable loop is made. As copies are taken the controller down counts to zero and the loop is disabled.

If the double price (A3) input is operated then twice the set copy price will be needed to be inserted to enable the photocopier and each copy pulse decrements twice the set copy price.

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, 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 PC171 controllers operate on 240V AC. Alternate supply voltages can be 12V AC or DC or 24V AC or DC (factory setting). The copy count input to the controller from the photocopier can be 2V to 30V AC or DC.

The A3 input to the coin controller from the photocopier usually comes from the A3 (11) on the control panel. Any steady state voltage input between 2 to 30V AC or DC is normally used. Some photocopiers will enable the A3 tray

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even if the credit is only sufficient for A4. For these machines the A3 paper tray relay can be used to break the connection to the paper tray, (clutch - paper sensor).

ADJUSTMENT
The copy down count signal from the copier occurs at different times in the copying process, between different machines. On rare occasions this can mean the photocopier is disabled too early or too late. If early the copy may be incomplete and if late more than one copy may be printed for each coin inserted. Adjustment is provided within the coin controller to advance or delay the disabling of the "loop" via a copy count down delay thumb switch.

COPY PRICE SETTINGS

COIN/PLR PRICE	COPY COUNT DOWN DELAY 250MS 5 I LPS	COPY PRICE (NUMBER OF 10¢ COINS)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SIDE TERMINAL BLOCK

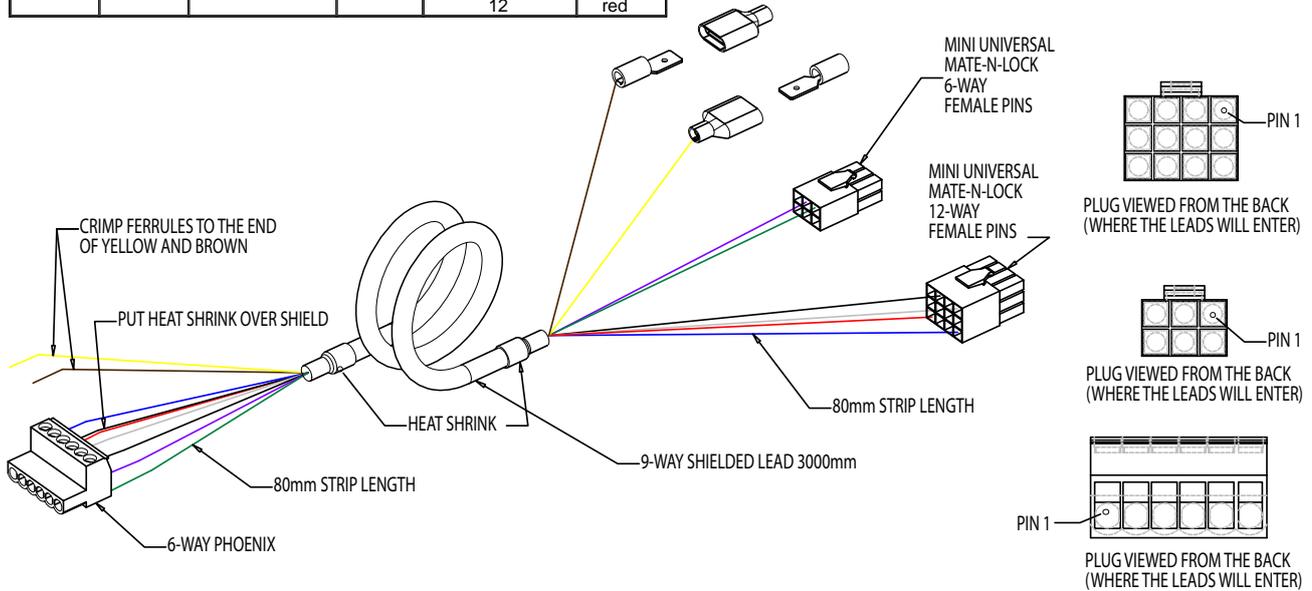
6 • RED UP	COPY ENABLE	A N E AS 240V IN PAPER TRAY DISABLE	+ - 12V OUT
5 • RED/SHELL			
4 • BLACK	COPY COUNT (2 - 30V)	A N E AS 240V IN PAPER TRAY DISABLE	+ - 12V OUT
3 • WHITE			
2 • VIOLET	AU PRICING	A N E AS 240V IN PAPER TRAY DISABLE	+ - 12V OUT
1 • GREEN			

FACTORY OPTION NOT SUPPLIED

32 Cross St, Brookvale, Sydney NSW 2100, Australia Tel: (02) 99392844 Fax: (02) 99383462 Email: contact@abberfield.com.au

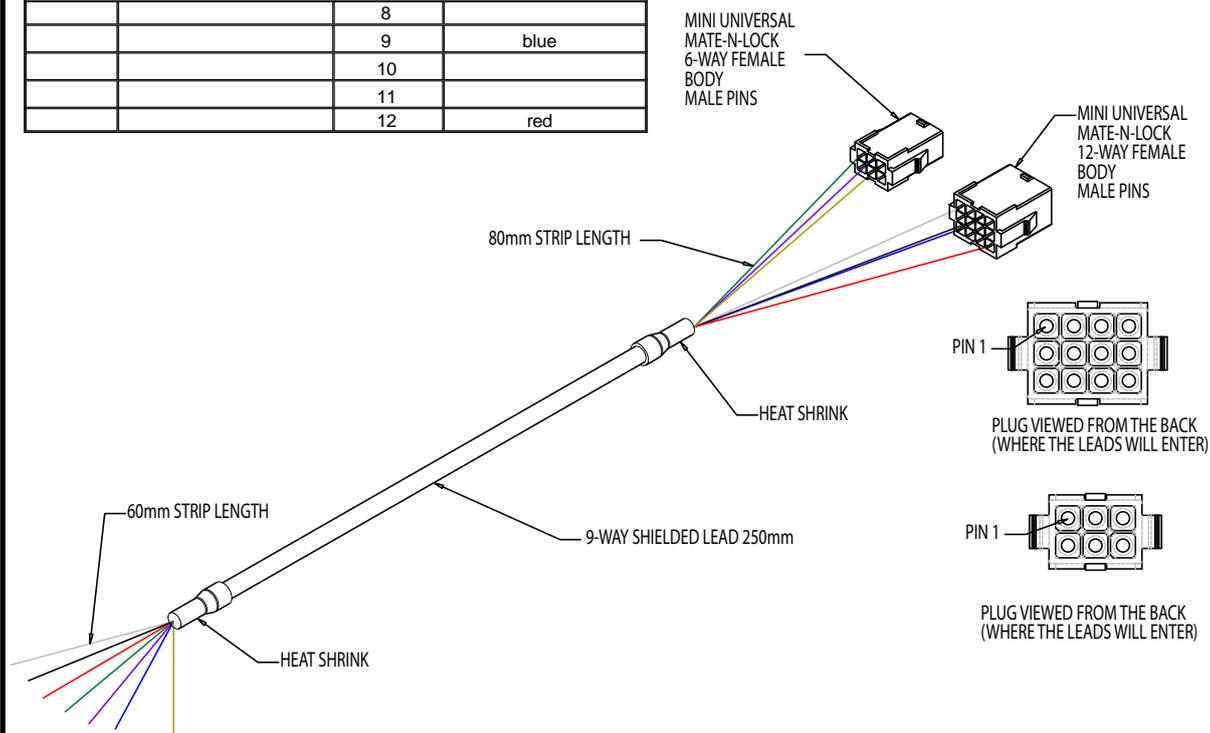
PHOTOCOPY LEADS - PC171 STANDARD

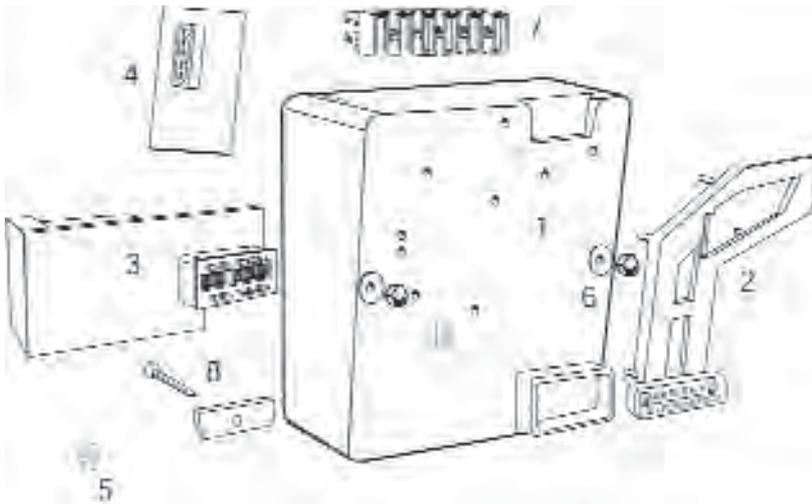
Phoenix		Mini Universal Mate-n-lock	Mini Universal mate-n-lock
6-way	colour	6-way	12-way
6	blue	1	green
5	red/shield	2	violet
4	white	3	
3	black	4	
2	violet	5	
1	green	6	
			7
			8
			9
			10
			11
			12
			red



PHOTOCOPY LEADS - PC151, PC171 & PC301 TAIL LEAD

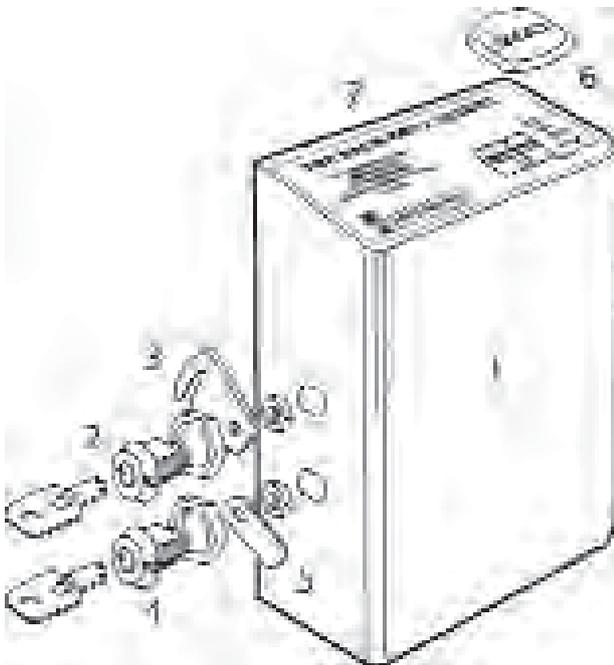
Mini Universal Mate-n-lock female	Mini Universal mate-n-lock female
6-way	12-way
1	green
2	violet
3	yellow
4	
5	
6	
	7
	8
	9
	10
	11
	12
	white
	black
	blue
	red





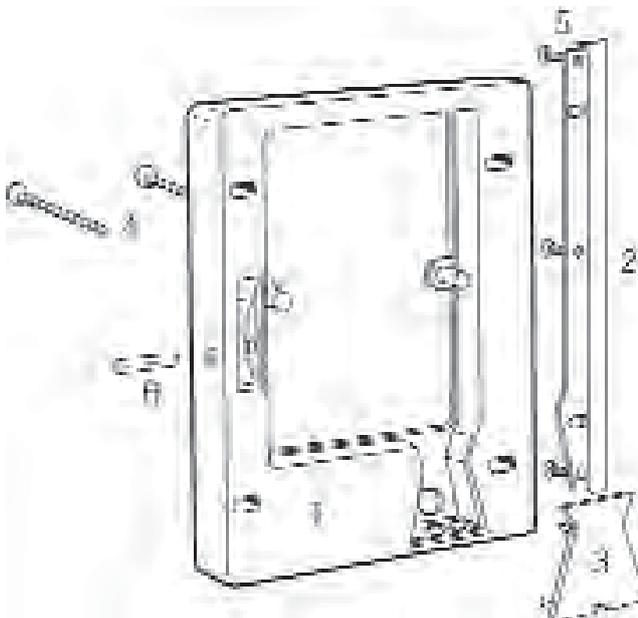
PC171 INTERIOR

1. PC171 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.



10 SERIES COVER

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



10 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").

CLEANING OF COIN TRACK

A build up of excess dirt in the coin track may slow down the coins rate of fall and the track should very occasionally be cleaned with methylated spirits on a cotton bud or equivalent.

Care should be taken not to disturb the coin track mounting as this may affect the coin validation system.

After some time the coin controller may need re-calibration and details can be obtained from the Abberfield Industries service department.

MOUNTING

Photocopier Mounting

The PC171 can bolt directly to the photocopier.

Pole Mounting

Low cost mounting on a metal section that bolts to a cabinet or other fixture.



Pedestal Mount P10

Low cost pedestal mount, cast base with a Pole Mount. For applications where cost control is the primary objective.



Stand Mounting S10

Allows for free standing coin control avoiding attachment to the photocopier.

Particularly suited for the latest generation photocopiers with access panels on all sides.

- Attractive design.
- Can be attached direct to the floor with concealed internal bolts.
- Can be provided with security chain and padlock to attach to photocopier or other fixture if not permanently floor mounted.
- Concealed cables exit through the base.
- Coloured to match coin controller.
- Special colours available.



Flag F10

Adds a support to the pole so that the coin validator is more secure and can be offset to the right or left or centrally mounted.

