



ABBERFIELD

INDUSTRIES

PTY LTD ABN 61 000 112 569

PD37

series

PACKET
DISPENSERS

TECHNICAL & SERVICE DETAILS

ABBERFIELD INDUSTRIES PTY LTD

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INSTALLATION / OPERATION / SERVICE / INSTRUCTIONS

The PD37 is an electrically released, pull drawer packet dispensing mechanism, It can be triggered by a number of coin or token selectors, or in fact from any switch contact input, which is longer than 0.25 second and shorter than 0.75 second.

The power consumption is remarkably little allowing long life operating from quite small twelve volt batteries.

This dispenser mechanism can be supplied to vending machine manufacturers or it can be fitted to cabinets supplied by Abberfield Industries.

DISPENSER MECHANISM & CABINET MODEL NUMBERS

- PD37 FC1 (Single column packet dispenser)
- PD37 FC1L (Single column large packet dispenser)
- PD37 FC2 (Double column packet dispenser)
- PD37 FC2L (Double column large packet dispenser)

PD37 FC?L



KEYS: Two different key numbers will have been used for security reasons. The back plate engaging the cover may be tight and require the assistance of a screwdriver etc to hold the back plate whilst opening the cover. This firm fit is desirable to minimise "rattle" of the cover when finally installed.

Abberfield Industries do not record the key numbers on the equipment that they produce. Spare keys can only be obtained if the key number marked on the key is quoted.

PD37 FC1

INSTALLATION

Mount securely. The recommended fasteners are 25 mm diameter loxin, using a 6 mm diameter bolt and a large diameter thick washer.

PROCEDURE

Unlock the cover by rotating the keys anti-clockwise.

Using long nose pliers or equivalent, lift the bottom hinge pin vertically to disengage. Pull the bottom edge of the back plate down, withdrawing the top hinge pin.

This allows the back plate to be used as a drilling template. Then mount the back plate to the wall, without first assembling the entire cabinet.

Reverse the procedure to fit the cabinet to the mounted back plate.



ADJUSTMENTS

PACKET CHUTE

Different packet sizes can be accepted by fitting different chutes and if necessary adjusting the mechanism.

Replacement of the chutes is by removing the mounting nuts and lifting the chute sideways.

REMOVAL OF DISPENSE MECHANISM

- First access the cabinet.
- Remove two screws to the rear of the mechanism and lift the packet tray infill free.
- Under the infill locate and remove two screws securing the tray to the mechanism.
- Pull the drawer free through the front of the machine.
- Remove the four side mounting screws to the sides of the mechanism.
- Lift the mechanism out to the rear and disconnect the wires.

DISPENSER ADJUSTMENTS

The sliding drawer can have different rear platforms fitted to allow for different sized packets.

OPERATION

The dispenser drawer is barred from opening until a 12 Volt supply is provided, plus a start pulse. Then a small D.C. motor rotates once, to prime a "trigger" device. Then the drawer may be pulled out, engaging a one way ratchet to ensure that it is fully out before it can be returned. When pushed in to return the drawer, another ratchet ensures that the drawer must be fully "home" before a new operation is possible.

ELECTRICAL

It is recommended that a 12 Volt lantern battery (dry cell

not rechargeable) is used as this should last for more than one year, given reasonable machine usage, subject to the coin or other control device drawing minimum power. Without much usage the machine should still be operative for the shelf life of the battery, usually greater than two years.

Should rechargeable batteries be used, it must be remembered that even without use these batteries will need reprogramming every few months.

Alternatively the mechanisms can be driven from a mains plug pack.

COIN / TOKEN OPERATION

The PD37 mechanism can be triggered by a number of different coin controllers. The Abberfield Industries model 20A mechanical coin selector is the economic model. This model gauges the coin size only and operates a simple counter. This can be set for one to 4 coins to be inserted, to output a pulse to operate the PD37 mechanism. Power consumption is minimal.

Best of all is the new CV23. This miniature coin validator accepts all coin denominations and can have a "vend" price set to any value from 5¢ to \$9.95 in 5¢ steps. Again power consumption is minimal.

COMPLETE VENDING MACHINES

Different configurations of coin selector and cabinet are possible, but the following is a recommended format.

Model	Column	Single Denomination	Multi-Denomination
PD37 20A FC1	1	✓	
PD37 20A FC2	2	✓	
PD37 20A FC3	3	✓	
PD37 23 FC1	1		✓
PD37 23 FC2	2		✓
PD37 23 FC3	3		✓

SERVICE

It is recommended that the battery terminals and all connections are coated in vaseline or contact grease. Simple operation reduces the need for maintenance which should be limited to infrequent application of grease or silicon spray to the sliding tray and ratchet.

After excessive use the 'O'ring drive may need replacing.

ABOUT ABBERFIELD

The Abberfield Group is a group of Research and Development manufacturing companies, based in Australia and wholly owned by Australians. The Abberfield Group of Companies specialise in Revenue Collection equipment either as suppliers of components to original equipment manufacturers or as producers of complete systems.



OTHER ABBERFIELD

PRODUCTS

ticketing equipment



pay station equipment



change giving equipment



stamp vending equipment



phone card dispensing



coin operated time switches



stand pipe control



coin photocopy control



coin shower control



coin boom gate control



coin validators



coin operated power switches



coin barbecue control