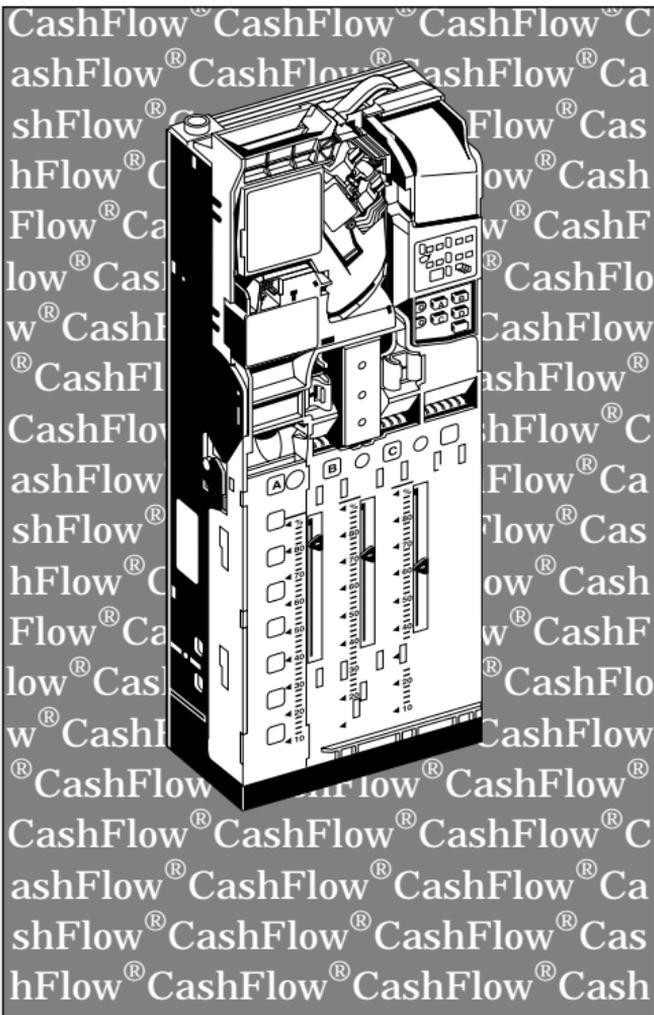The

CASHFLOW® 520

REFERENCE SERIES

CHANGEGIVER

POCKET GUIDE

ROUTINE MAINTENANCE, SAFETY, INSTALLATION & TROUBLESHOOTING

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CashFlow® 520 changegiver Pocket Guide

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This document does not necessarily imply product availability.

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CONTENTS

User Safety Notices

WARNING

Before cleaning, servicing, removing or replacing CashFlow® units, **ALWAYS SWITCH OFF** or **ISOLATE** the **ELECTRICITY SUPPLY** to the host machine.

CAUTION

This guide is for use only by personnel trained to carry out electrical installation.

Maximum Operating Voltage

Do not apply more than the voltage specified on the unit.

Dangerous Environments

Do not operate the unit in the presence of flammable gases or fumes, or after the entry of fluid into the machine.

Disposal of Product

If necessary, always dispose of defective units according to local regulations.

Conformance to International Standards

When installed and operated according to the instructions provided for the particular unit, CashFlow**®** products meet the applicable international and national safety standards for any country in which they are used.

CashFlow© 520 changegiver

Reject lever

Coin entry cup

Top cover flap

Acceptor module

Label showing keypad functions
and operating voltage of unit

Lid tab of acceptor

Keypad and LEDs

Connection port for MEI®
Route Alpha 250 terminal

Coin storage cassette
release catches

Hinge pin of acceptor

Coin slots for manual filling

Labels showing the
coin tube positions

Coin flap for manual filling

Model number and
serial number of unit

Coin storage cassette

Dispenser base

Movable float indicator

Cashbox coins exit at rear

Rejected coin exit

Parked dispenser arms show here

Routine Maintenance

WARNING

Switch off the power to the host machine *before* cleaning the unit

Clean the coin pathway (shown shaded in the figure) regularly with a soft moist cloth. Take care that all the surfaces are dry before you close the lid of the unit, particularly if you have had to clean the unit after the entry of dirt or fluid.

Lid

Clean the shaded areas
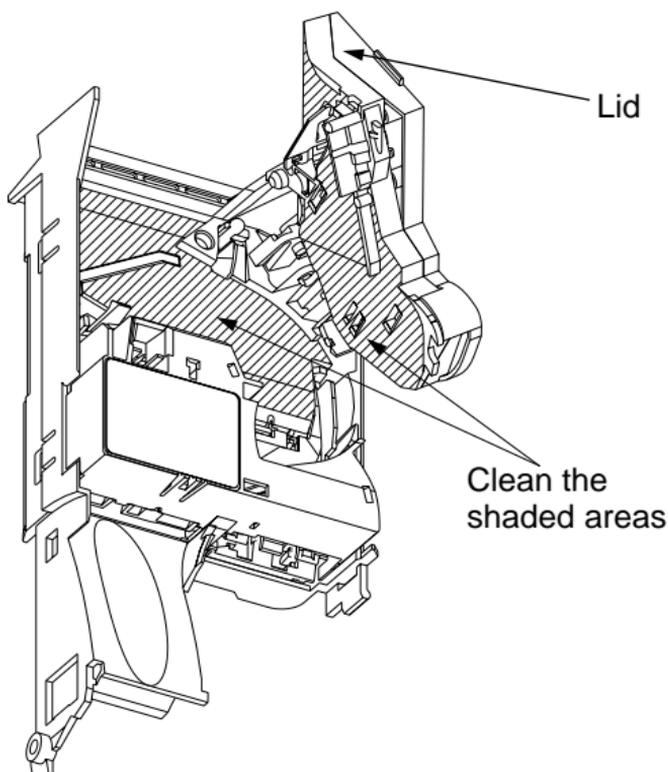
Take care that no drops of water enter the unit during cleaning.

Never use solvents or abrasive creams to clean the unit. These will damage the surfaces.

NOTE: *If you switch the machine on when the lid of the acceptor unit is not fully closed, coins will be rejected even if you then close the lid.*

If this happens, **switch off the power to the machine for at least 15 seconds**, then close the lid again. Make sure the lid snaps shut.

Switch the power on. Check coins are accepted.

Cleaning the Dispenser Arms

Switch off the power to the host machine *before* cleaning the unit

Squeeze together the two coin storage cassette release catches and lift out the cassette.

Wipe the dispenser arms and their paths in the dispenser base with a moist cloth.

Switch on power to the machine, press the mode button twice to park the dispenser arms, and replace the coin cassette.

Check that the two release catches snap shut.

Clean the arms and their paths

Dispenser arms in parked position

You should only remove the dispenser and the dispenser arms for cleaning if there is a heavy build up of dirt or other matter in the dispenser.

Always refer to the *Product Maintenance Handbook* before removing these parts.
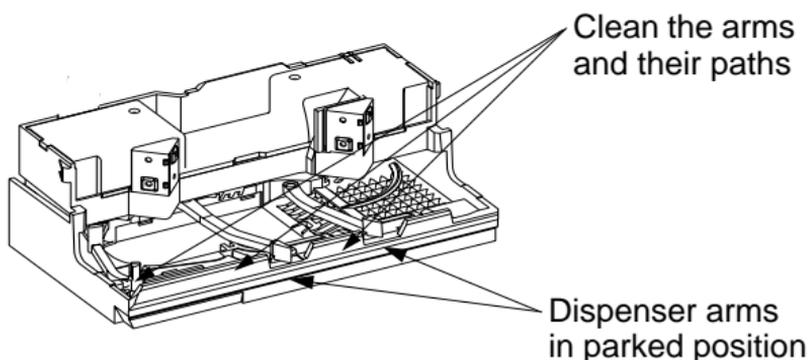
Checking and Replacing a Fuse

Switch off the power to the host machine *before* checking a fuse

Squeeze together the coin cassette release catches and lift out the cassette.
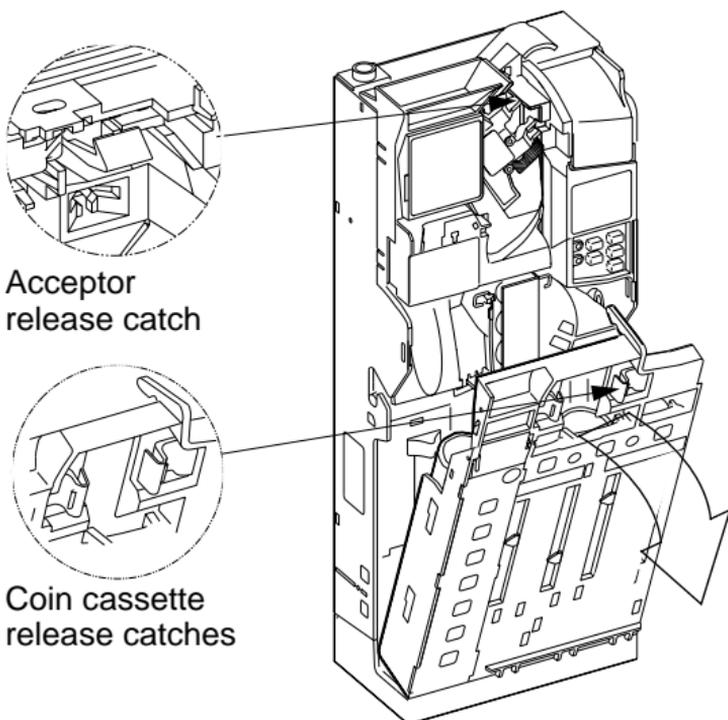
Acceptor
release catch

Coin cassette
release catches

Press down the blue release catch above the acceptor with a small screwdriver. Pull the top of the acceptor forward and downwards. Unplug the exposed ribbon cable and lift out the acceptor.
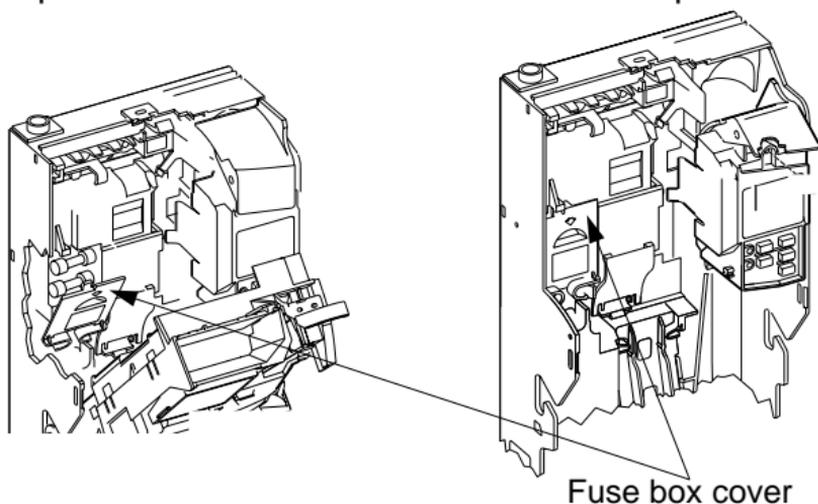
Fuse box cover

The fuses are under a cover in the left hand side of the unit. Always replace a blown fuse with one of the same rating.

Replace the acceptor onto its hinge slots, reconnect the ribbon cable and press the acceptor into place.

Park the dispenser arms and replace the coin cassette.

Make sure that the release catches of the acceptor and the cassette snap shut firmly.

Switch on power to the machine and check that the red LED comes on.

Using the Keypad

Use the keypad to park the dispenser arms, dispense coins, set prices, float the coin tubes up or down, and to re-set the tube counts to their pre-set levels.

The keypad label summarises keypad functions.

Float up tube

Set vend prices

Correct voltage for unit

Voltage _V

Re-set tubes automatically to pre-set level

No function

Dispense coins

Tube A dispense

Yellow LED

Red LED

Tube C dispense

A

C

B

D

Tube B dispense

No function

Mode button
(YELLOW)
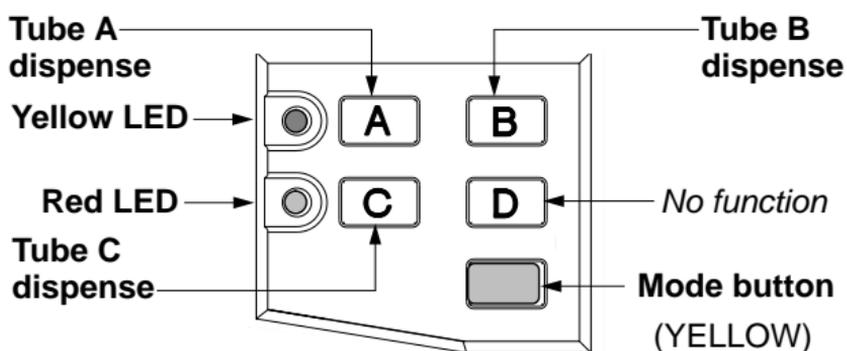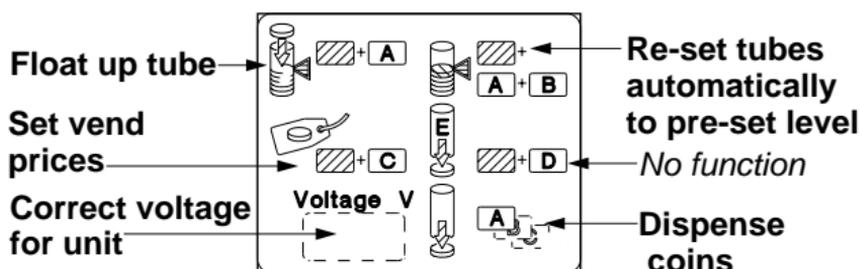
Function	**Buttons**
Dispense coins from tubes	A , B or C
Park the dispenser arms	▢ + ▢
Float up tubes automatically	▢ + A
Float down tube automatically	▢ + A + C
Reset tubes to pre-set levels	▢ + A + B
Set the vend prices	▢ + C
Cancel the accumulated credit	▢ + A + A

Using the Keypad

Dispense Coins / Empty Tubes
A , **B** , **C**

Press a button once to dispense a coin from a corresponding tube. If you press and hold for more than three seconds, coins are dispensed automatically until only a sufficient minimum *(the safe count)* are left to operate the dispense mechanism. To empty a tube or a cassette, you may have to take out the last coins by hand.

Float-Up Tube Counts Automatically
+ **A**

Press the buttons, then feed tube coins through the acceptor to refill the tubes to their pre-set float level. When float levels are reached, further coins are rejected. If automatic float is left by pressing **B**, tube counts re-set to pre-programmed float levels.

Re-set Tube Counts
+ **A** + **B**

Press the buttons to force tube counts to be re-set to their pre-set float levels. If there are not enough tube coins to meet the pre-set levels, coin counts remain incorrect until recalibration takes place.

Automatic Float Down to Pre-set Levels
+ **A** + **C**

If the unit is programmed for this function, press the buttons to dispense coins until tube counts reach their pre-set float levels. If the numbers of coins already in the tubes are equal to or below the float levels, no coins are dispensed.

Set the Vend Prices
+ **C**

Press the buttons. Insert coins equal to the lowest price. Make a selection. A 45-second time-out starts after each coin. *More selections at the same price can be made without inserting extra coins.*

Add coins for the next highest price, and make a selection. Continue until all prices are set. Press **C** to cancel credit and to exit price teach.

Troubleshooting

FLASHING? • **Is the red LED...** **OFF?**

Y • Press **A**, **B**, **C** **N**   **Y** • Is the unit's **N**
   • Are correct coins dispensed?   interface loom firmly connected?

Y • Feed change coins into acceptor **N**
   • Are coins routed to the correct tubes?
   • Does the red LED stop flashing?

• Re-connect loom and re-start unit

Y • Press **Mode+Mode** **N**
   • Does the yellow LED flash?

• Float up tubes to their preset levels
• Press **A** to return unit to normal operation

• Check fuses, replace if blown

• Check cassette for coins covering top-level sensors
• Check acceptor coin path
• Check for jams in separator
• Press **Mode** + **Mode** and replace the cassette

Y • Press **A**, **B**, **C** to dispense coins **N**
   • Insert change coins
   • Are change coins accepted?

• Make a trial vend to check the unit

• Check for sufficient change coins in tubes, and for jams in dispenser and tubes
• Press **Mode** twice to check dispenser arm movement
• Check reject lever

• Blocker signal from machine not present. Check for blocker from machine through to unit. Check all looms.

Y • Coins accepted and red LED lit? **N**

• Make a trial vend to check the unit

• Refer to the troubleshooting table in this Guide

Troubleshooting

Problem	Causes	Actions
Red LED is *on*, except when a vend is made	Normal operation	No action
Red LED is *on* but coins are not accepted	Coin jam in the changer mechanism	Check for jams in the acceptor and in the tubes. Park the dispenser arms before you replace the coin cassette.
	Lid of acceptor is open	Clear the jams, then dispense a coin to check operation. Switch the power off, **wait for at least 15 seconds**, then switch on again.
	Not enough reject lever clearance	Check clearance is between 2-3mm, and adjust if necessary.
Red LED stays *off*	No power to the vending machine	Check that the power supply **to the unit** is at the voltage shown in the window on the keypad label.
	No power to the unit - loose loom or blown fuse.	Test the power supply by pressing the Mode button.
		If the yellow LED flashes, the power is on.
		If yellow LED stays off, **switch off power to ythe machine**, and check power looms and fuses. Replace any blown fuses. Restart the machine and check that red LED is on.

Problem	Causes	Actions
Red LED stays **off** and all coins are rejected	No stock available for vending	Check if the machine is out of stock.
	Check for fault on vending machine	If an Executive version, check the communications cable. Refer to the **Product Maintenance Handbook**.
	Blocker signal from the machine	
	LED or keypad fault	Check the keypad module. If faulty, refer to your MEI distributor.
	Faulty transformer	Check the transformer. If faulty, refer to your MEI distributor.
Red LED is **flashing**	Fault with the changegiver unit	Press **A**, **B** and **C** to check if coins are being dispensed. If the red LED is still flashing, **switch off the power to the machine**, wait at least 15 seconds and switch on again.
	A coin has covered the top level sensors	Remove the coin cassette and check the tops of the coin tubes.
	A coin has jammed in the dispenser module	**Switch off the power to the machine**, remove the cassette and check the dispenser for jams. Clear any blockages and check for damaged coins.
	Fault with the audit module	Check the **Route Aplha** audit addresses. Return unit to distributor for repair if necessary.
	Coin cassette is unclipped	Press the cassette into place **firmly.**

Problem	Causes	Actions
Red LED is *flashing* and no coins are accepted	Check **Route Alpha** addresses 340 to 349 for a description of the error	
	The cover of the acceptor is not closed firmly	**Switch off power to the machine** and open and close the lid of the acceptor. Make sure the lid snaps shut firmly. Wait at least 15 seconds and switch the power on again.
	The acceptor loom is not connected	Check the acceptor loom and reconnect it if necessary.
	The coin path in the acceptor is dirty	**Switch off the power to the machine** and clean the acceptor.
Red LED is *off*, but change coins are routed to the cashbox and not to the tubes	Mismatch between the true coin count in a tube and the count being registered by the unit	Press and hold down **A**, **B** and **C** for at least three seconds to dispense coins down to the tube safe counts, then re-float the tubes.
		Press **Mode + A + B,** and insert change coins through the acceptor until tubes reach their pre-set levels
Red LED is *off permanently*, with no other problems present	Faulty LED or keypad module	Check and replace the keypad module if it is faulty. Refer to your authorised MEI distributor.

Problem	Causes	Actions
Yellow LED is *off*	Normal operation	No action
Yellow LED *flashes* when coins are accepted	Normal operation	No action
Yellow LED remains *off* when the Mode button is pressed	No power supply to the vending machine	**Switch off power to the machine**, check all looms and check all fuses. Replace blown fuses, following the instructions in this Pocket Guide.
Yellow LED is *flashing*	The changegiver is in *shifted mode* because the Mode button has been pressed	The keypad is available to change the functions of the unit. (*Press* Mode *or wait for 45 seconds to exit from shifted mode*).
Yellow LED is *off permanently*. No other problems present	Faulty LED or keypad module	Check the keypad module. If faulty, refer to your MEI distributor.

Problem	Causes	Actions
Poor coin acceptance	Changegiver unit is not level	Check and re-level the unit if necessary.
	Modules are not mounted and aligned correctly	Check the coin entry and exit chutes of the machine are aligned with the coin entry cup on the unit, and with the cash box on the machine.
		Adjust the modules until they are accurately aligned.
	Build-up of dirt in the acceptor	**Switch off the power**, check and clean the acceptor.
	Blocked accept gate opto's	Check if the accept gate opto's are blocked.
		Refer to the **Product Maintenance Handbook** before attempting to clean the opto's.
Unit rejects one type of coin or token	Coin or token is inhibited	Check that the coin or token is included in the coin set of the changer, and has been enabled.
		If necessary, enable the coin.
	Coin or token is damaged or worn	Discard the worn or damaged coin/token.
	A tube has reached its pre-set float level, and further coins are rejected because the unit is in float mode	*Press* **A** *to leave float mode.*
		Check the tube levels, then make a vend to check that the exact change is dispensed.

Problem	Causes	Actions
High value coins are rejected and the exact change light is on	Too few coins in the change tubes, leaving the low-level sensors uncovered	Re-float the coin tubes through the acceptor so that the low-level sensors are covered.
	Unit is in *No overpay* mode	Check **Route Alpha** address 242.
Coins are accepted but no credit is given	Power loom is not inserted correctly	**Switch off power to the machine**, and check the loom.
	Strobes in the accept gate mechanism are blocked or dirty	Refer to the ***Product Maintenance Handbook*** before attempting to clean the strobes or the opto's.
	Coin jam in the separator module (post gate strobes are covered)	**Switch off power to the machine**, and check separator for jams.
Coins are not routing correctly	The level of coins in a tube is covering a top-level sensor	Check tube counts. If they are above the pre-set float levels and **automatic tube inventory** is set, press **Mode + A + C** to float-down the coins in the tubes.
	The top-level sensor loom or the separator loom is not connected correctly	**Switch off the power**, remove the cassette and release the acceptor. Check that the top-level sensor and separator looms are fitted correctly. Replace the acceptor and cassette. Switch on power to the unit, then insert coins and check routing.
	Wrong acceptor or separator is fitted	Check that the acceptor and separator are the correct versions.
	A tube is disabled	Use the **Route Alpha** terminal to enable the tube.

Problem	Causes	Actions
No coins are dispensed	Levels of coins in the tubes are below the safe count.	Check that change coins are available in the tubes. If necessary, float up the tubes through the acceptor with the correct change coins.
	Dispenser loom not connected or loose	**Switch off power to the machine** and check that the dispenser loom is fitted correctly. Refer to the **Product Maintenance Handbook**.
	Faulty dispenser unit	Check that the dispenser module is operating correctly. Refer to the **Product Maintenance Handbook** before you attempt to service or replace the dispenser.
Incorrect change is dispensed	Insufficient change coins are available	If necessary, float up the tubes with the correct change coins.
	Incorrect coin values are set	Check and reset the coin values if necessary. Press **A, B**, and **C** to check if change coins can be dispensed.
		Check that coins are being routed to the tubes correctly.
Problems in handling coins persist after all solutions have been tried	Faulty unit, or faulty modules	Contact your MEI distributor. *To help diagnosis, note the symptoms, and the model and serial number of the unit for reference.* The numbers are on a label on the side of the unit.

Setting a Unit's Functions with a MEIs® Route Alpha 250 Terminal

Each piece of data which determines the unit's functions is stored in a separate address. Use the terminal to read an address and to check or set the unit's functions.

Setting Functions

Insert the plug on the **Route Alpha 250** terminal into the six-way connector in the acceptor unit.
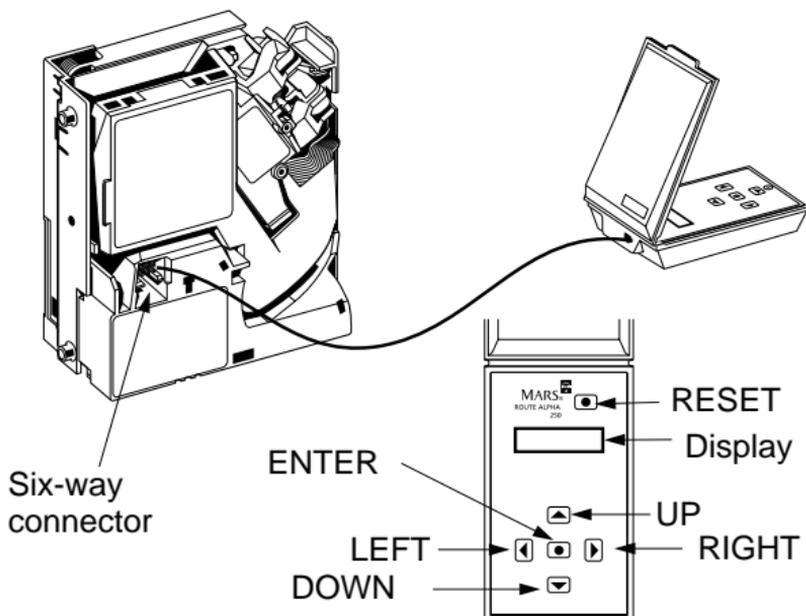
A half-size zero is displayed when the terminal powers up, followed by the software version number and then the first address number with a **dot**, or a **dot** and **dash** (**1.** or **1.-**)

Functions can be changed only if a dash shows after the address number.

Press UP or DOWN slowly to display addresses one after the other. Hold down a key to display addresses at an increasing speed. Press a key twice quickly to jump large blocks of addresses.

To set a function, press ENTER to show the current value in the selected address, then change the value by pressing UP or DOWN.

Press ENTER again to return to the address display. Press RESET to store the new value.

NOTE: *If an error occurs, four half-size zeros appear. Press RESET to clear this display and to return to the current address.*

Troubleshooting the MEI® **Route Alpha 250 Terminal**

Symptom	**Cause**	**Solution**
Terminal displays an error message at power-up	Communications error	Press **RESET**
Terminal displays an error message when changing between address and data mode	Communications error between terminal and product, or the terminal does not recognise the product it has been connected to	Repeat the last operation.
Terminal powers up but addresses cannot be accessed	The product is not compatible with the terminal	Different terminal needed, or different software needed.
Terminal does not power up	Bad connections or faulty cable	Check connections. replace lead if necessary.
Terminal powers up but one of the keys does not work	Faulty key	Use the terminal's self-test option. If the key is faulty, send terminal for repair.
Non-standard characters printed on the display	Faulty unit	Send unit for repair.

Address Settings for Use with the MEI® Route Alpha 250 Terminal

Address	Parameter	Range	Meaning	Notes
200	Maximum credit	**0-65,535**	Maximum credit allowed	
201 - 204	Prices **1, 2, 3** & **4**	**0-65,535**	Values of prices **1, 2, 3** & **4**	
205 - 225	Prices **5** to **25**	**0-65,535**	Value of prices **5** to **25**	Only when audit fitted
226	Single vend or multi-vend	**0 - 1**	**0** = single vend **1** = multi-vend	
227	Escrow return inhibit	**0 - 1**	**0** = escrow return allowed **1** = escrow return inhibited	Not MDB
228	Reset mode (**electromechanical installation only**)	**0 - 4**	**0** = blocker reset **1** = delayed blocker reset (20mS) **2** = delayed blocker reset (300mS) **3** = blocker hold reset **4** = reset after escrow accept signal	Not BDV/MDB

Address	Parameter	Range	Meaning	Notes
229	Inhibit **coin**: coins 1 to 4	**0 - 15**	Address value = the sum of the codes where: Code **0** = no coins inhibited Code **1** = inhibit coin 1 Code **4** = inhibit coin 3 Code **2** = inhibit coin 2 Code **8** = inhibit coin 4 To inhibit more than one coin at the same time, add their **codes** together. For example, codes **1** + **8** = **9**. If you choose **9** for this address range value, coins 1 and 4 will be inhibited.	
230	Inhibit **coin**: coins 5 to 8	**0 - 15**	Address value = the sum of the codes where: Code **0** = no coins inhibited Code **1** / **2** / **4** / **8** = inhibit coin 5 / 6 / 7 / 8	
231	Inhibit **coin**: coins 9 to 12	**0 - 15**	Address value = the sum of the codes where: Code **0** = no coins inhibited Code **1** / **2** / **4** / **8** = inhibit coin 9 / 10 / 11 / 12	Not MDB
232	Inhibit **exact change** group Inhibit coins 1 - 4	**0 - 15**	Code **1** / **2** / **4** / **8** = inhibit change coin 1 / 2 / 3 / 4	Not MDB

Address	Parameter	Range	Meaning	Notes
233	Inhibit coins 5 - 8	0 - 15	Code **1** / **2** / **3** / **4** = inhibit change coin 5 / 6 / 7 / 8	Not MDB
234	Inhibit coins 9 - 12	0 - 15	Code **1** / **2** / **4** / **8** = inhibit change coin 9 / 10 / 11 /12	Not MDB
235	Change delay	0-255	Delay in steps of 0.5 second	Not MDB
236	**Exact change** equation - **i**	0 - 31	Value = sum of codes where **1**/**2**/**4** = tubes **A**/**B**/**C**	Not MDB
237	**Exact change** equation - **ii**	0 - 31	Value = sum of codes where **1**/**2**/**4** = tubes **A**/**B**/**C**	Not MDB
238	Price hold	0 - 1	**0** = do not hold price **1** = hold price	Not MDB
239	Price display	0 - 1	**0** = do not display price **1** = display price	Not MDB
240	Coin scaling factor	1 - 250	*Used with* Protocol A *only*	Not MDB
241	Decimal point position	0 - 3	**0**/**1**/**2**/**3** = move point position 0,1, 2, or 3 spaces	Not MDB
242	Overpayment inhibit	0 - 1	**0** = overpayment allowed **1** = overpayment inhibited	Not MDB

Address	Parameter	Range	Meaning	Notes
243	Clear overpayment inhibit	0 - 1	**0** = cleardown allowed **1** = cleardown inhibited	Not MDB
244	Keypad inhibit	0 - 1	**0** = keypad enabled **1** = keypad disabled	Not MDB
245	Price teach inhibit	0 - 1	**0** = price teach allowed **1** = price teach inhibited	Not MDB
246	Fast sense	0 - 1	**0** = normal **1** = fast (*electromechanical only*)	Not MDB
247	Float down (auto tube inventory)	0 - 1	**0** = float-down disabled **1** = float-down enabled	
251 - 254	Float level for tube **A**, **B or C**	0 - 255	Set the number of coins to be floated to in tube **A**, **B or C**	
261 - 264	Full count for tube **A**, **B or C**	0 - 255	Set number of coins in tube that activates **full** sensor	
271 - 274	Low count for tube **A**, **B or C**	0 - 255	Set number of coins in tube that activates **low** sensor	
281 - 284	Safe count for tube **A**, **B or C**	0 - 255	Minimum number of coins that must be left in a tube (*this number is multiplied by two in the changer*)	

Address	Parameter	Range	Meaning	Notes
301 - 304	2nd coin type in tube **A, B or C**	**0 -12**	**0** = no coin, **1** = coin 1, **2** = coin 2, **3** = coin 3...	
310	Value of coins in tubes	**0 - 65,535**	Value of coins in **ALL** tubes	READ ONLY
311 - 314	Coin count for tube **A**, **B or C**	**0 - 255**	Current number of coins in tube **A**, **B or C**	READ ONLY
321 - 332	Value of coins 1 - 12	**0 - 65,535**	Value of an individual coin	
340	Full sensor errors on tube **A, B or C**	**0 - 255**	Range value = sum of the codes, where: **1**/**2**/**4** = tube **A**/**B**/**C**, and **128** = post gate strobe error	READ ONLY
341	Disabled tube at position **A, B or C**	**0 - 31**	Range value = sum of the codes, where: **1**/**2**/**4** = tube **A**/**B**/**C**	READ ONLY
342	EEPROM errors - **i**	**0 - 15**	Range value = sum of the codes, where: **1** = page 0 EEPROM error **2** = page 1 EEPROM error **4** = audit FEM corrupt **8** = audit FEM removed	READ ONLY

Address	Parameter	Range	Meaning	Notes
343	EEPROM errors - **ii**	0 - 15	Range value = sum of the codes, where: **1** = incorrect configuration version **2** = audit FEM not initialised **4** = undefined **8** = internal EEPROM write error	READ ONLY
344	Operational errors - **i**	0 - 15	Range value = sum of the codes, where: **1** = coin-set code error **2** = acceptor initialisation error **4** = HI² hardware error **8** = HI² transmission error	READ ONLY
345	Operational errors - **ii**	0 - 15	Range value = sum of the codes where: **1** = coin cassette removed **2** = protocol A transmission error **4** = protocol A receive error **8** = cashbox full	READ ONLY
346	BDV errors - **i**	0 - 15	Range value = sum of the codes where: **1** = audit timed-out **2** = VMC timed-out **4** = CPC timed out **8** = audit not initialised	BDV ONLY

Address	Parameter	Range	Meaning	Notes
347	BDV errors - **ii**	**0 - 15**	Range value = sum of the codes where: **1** = audit incompatible **2** = VMC incompatible **4** = CPC incompatible	
349	Reset error flags	**0 - 1**	**0** = do not reset error flags **1** = reset error flags	
360	Audit module - **VMC I/D**	**0 - 65,535**	Vending machine identification code	AUDIT ONLY
361	Audit - **print-out language**	**0 - 4**	**0** = English **1** = French **2** = German **3** = Dutch **4** = Spanish	Not BDV/MDB
362	Audit - **print-out type**	**0 - 2**	**0** = Basic **1** = Basic + Interim Report **2** = Basic + Interim + Free Vend Report	Not BDV/MDB
363	Audit - **print-out lines limit**	**0 - 25**	Limits print-out details to first few specified price lines	Not BDV/MDB

Address	Parameter	Range	Meaning	Notes
364	Audit - **installation day**	1 - 31	**Day date** of installation into machine	Not BDV/MDB
365	Audit - **installation month**	1 - 12	**Month** of installation into machine	Not BDV/MDB
366	Audit - **installation year**	0 - 99	**Year** of installation into machine	Not BDV/MDB
380	Discount award	0 - 9999	Amount added to credit when the vended value exceeds the discount trigger	BDV only
381	Discount trigger	0 - 9999	If the vended value exceeds this value then the award will be added to the sytem credit	BDV only
382	Link Master ID	0 - 9999	ID code of Link Master node	BDV only
383	Exact Change offset	0 - 15	Allows for a more advanced warning to be given of exact change	BDV only

| Address	Parameter	Range	Meaning	Notes
384	Maximum coin credit	0 - 65,535	Maximum coin credit that can be accepted by the changegiver	BDV only
385	Audit unit is BDV	0 - 1	**0** = audit unit not BDV type **1** = audit unit is BDV type	BDV only
386	VMC unit is BDV	0 - 1	**0** = VMC unit is not BDV **1** = VMC is BDV	BDV only
387	CPC unit is BDV	0 - 1	**0** = CPC is not BDV **1** = CPC unit is BDV	BDV only
388	Card revaluation	0 - 1	**0** = revaluation not allowed **1** = revaluation allowed	BDV only
389	Audit unit fitted	0 - 1	**0** = audit unit not fitted **1** = audit unit fitted	BDV only
390	VMC unit fitted	0 - 1	**0** = VMC unit not fitted **1** = VMC unit fitted	BDV only
391	CPC unit fitted	0 - 1	**0** = CPC unit not fitted **1** = CPC unit fitted	BDV only
392	BDV exact change equation	0 - 1	**0** = normal operation **1** = use BDV exact change equation	BDV only

Installing and Starting a Unit
Before installation

1. Check that the unit's specifications are correct for the host machine.

2. Ensure the unit's modules assembled securely.

3. Check that the connector on the changegiver loom matches the one on the host machine.

4. Confirm that the voltage of the power supply *to the changegiver* is the same as in the keypad window.

Tighten the screw in the **right-hand keyhole slot** to secure the unit in the host machine

Mounting points

Note the **model number** and **serial number** before you contact your MEI distributor
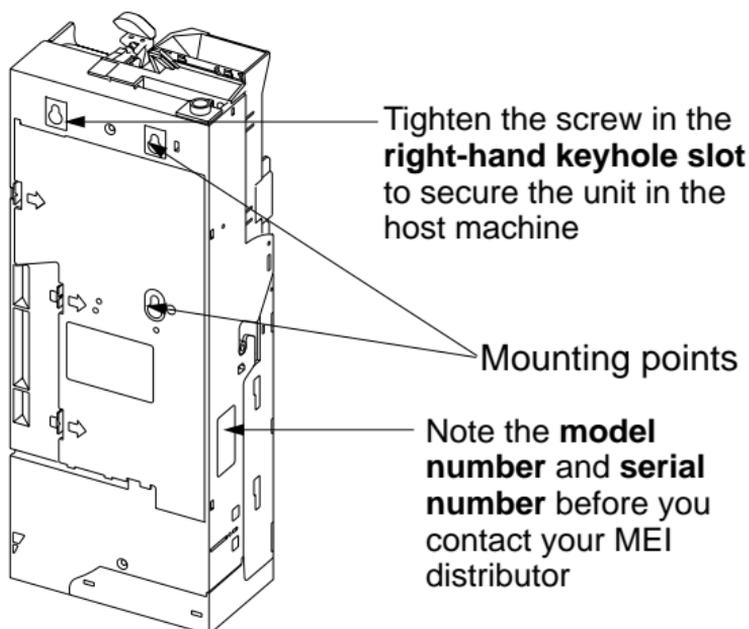
Fit the changegiver onto the locating screws in the machine

1. Ensure that the unit is level on its three keyhole mounting slots.

2. Check that the right-hand mounting screw is at the top of the keyhole slot, and that the unit is level.

3. Press down the top cover flap and tighten this mounting screw to secure the unit in place.
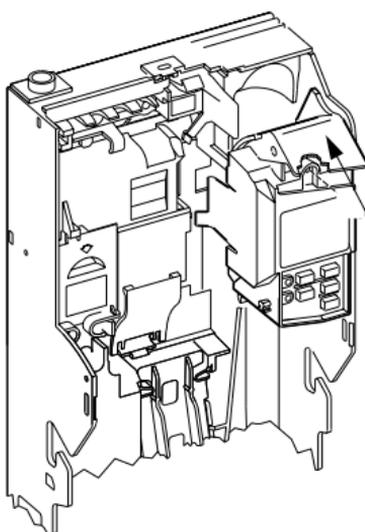
Push open the top cover flap to get access to the fixing screw and tighten it

Connect the looms and secure them in their correct positions

1. Check that the looms cannot be trapped by the unit or by the door of the machine.

2. Check that the unit's lid opens fully when the reject button is pressed, and that the reject lever has 2mm - 3mm of clearance from the reject mechanism of the machine. Adjust the clearance if necessary.

3. Ensure that the unit's coin entry cup is aligned with the machine's coin entry chute, and that the coin exit chutes are lined up.

4. With the power off, insert ten of the largest and smallest coins to check the coin routing to the coin return cup.

Switch on the power to the unit

1. Check that the red LED comes on.

2. Use the keypad or the Route Alpha terminal to set the vend prices.

NOTE: *Use the keypad if the installation is an electromechanical interface. If it is an electronic serial interface, prices are normally held in the vending machine.*

Float the coin tubes

Floating the tubes through the acceptor

1. Press **Mode + A**, and insert change coins. When the tubes reach the pre-set maximum float level, further coins are routed to the cashbox.

Use the coin entry slots to replace any coin that falls through a tube, so that it is not counted twice by the acceptor.

2. Press **A** to return to normal operation.

Floating the tubes by hand

1. Insert a full coin cassette, or remove the unit's cassette and fill the tubes to the float levels.

If the cassette is difficult to remove, release it and tilt it forward. Push in the coin filling flap, and fill tube **A** through the gap. Fill tubes **B** and **C** through the coin entry slots.

2. Press **Mode** twice, replace the cassette, then press **Mode + A + B**.

3. Insert samples of non-change coins to check they route to the cashbox.

4. Press **A, B** and **C** to check that coins are dispensed.

5. Press **Mode + A** and refloat the tubes through the acceptor.

When the pre-set level is reached, further coins are routed to the cashbox.

6. Press **A** to return the unit to normal operation.

The unit is now ready for use

MEI Product Manuals

Full technical details of this product are included in the **CashFlow**® **520 changegiver** *Product Maintenance Handbook*, a copy of which is available, with other handbooks related to the product, from your MEI Approved Distributor, or your regional **MEI** sales office.

MEI Product Training

Product training courses are available for **CashFlow**® and other MEI products.

The courses cover the technical features and the maintenance of the product, and give you hands-on experience in servicing **CashFlow**® products quickly and efficiently.

Contact your regional **MEI** sales office for more information.

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