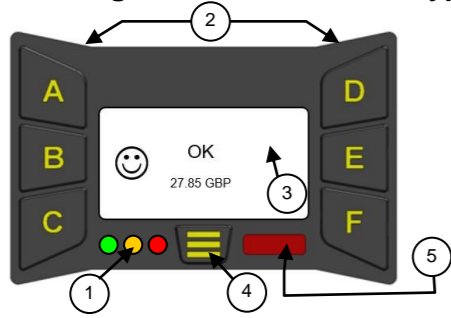


Quick Reference Card

Understanding the User Interface Keypad



1	3 LEDs	Red, Amber, Green
2	Buttons A to F	Dispense coins & navigate through menus
3	Display (LCD)	Menu information & warning display
4	Mode Button	Access service & set-up menus
5	IRDA Port	(if fitted)

General Keypad Button Operation

When the changegiver is in the idle state, the A - F buttons can be used to dispense coins from the tubes. If however, the mode button is pressed beforehand, these buttons are used to navigate through the service & set-up menu options.

General Operation of Keypad Buttons			
A	Dispense coin from tube A	D	Dispense coin from tube D
B	Dispense coin from tube B	E	Dispense coin from tube E
C	Dispense coin from tube C	F	Dispense coin from tube F
	Mode Button		

The mode button can be used to access the two configuration modes available. Service Mode and Set-up mode.

Service Mode: gives access to the most frequently used product configuration options. (See Service Mode Options)

Set-up Mode: gives access to general product configuration options that are required when setting up your changegiver. (See Set-up Mode Options)

Mode Button Operation Functions	
	Press quickly to access Service Mode menus
	Press and Hold for 2 seconds, will access the Set-up Mode menus without a pass code required. Note: If however the changegiver had detected an error/fault, this action will take you to the test/diagnostic menu.
E	Access the Set-up Mode menus.
	Ensure tube cassette is fitted then press button twice to view changegiver audit data

Service Mode Options

Press Button Sequence	Description / (Action)
A F	Float coin tubes / (Insert coins then press F button)
A	Float teach takes a snapshot of current tube levels.
B A	View coin details / (press D to scroll up & E down)
D ? ? ?	Enter predefined cassette code / (then press F)
D	Custom cassette teach / define payout and press F

LED Light Codes

The 3 LEDs fitted on the changegiver provides up to the minute status information. Please refer to the table below for more details.

	On	Changegiver OK	
	Cycles X 2	Normal power up sequence. Changegiver OK	
	Blinks Off	Coin accepted / rejected (Refer to Green LED Codes)	
	Flashing	Changegiver in Menu mode (Refer to Green LED Codes)	
	On	Changegiver inhibited by VMC	
	Flashing	Changegiver requires attention (Refer to Amber LED Codes)	
	Off	No Power to Changegiver. Check power looms are connected & ensure power is switched ON.	
	On	Changegiver Faulty (Remove from vending machine)	

Green LED Codes

In Idle Condition	General operation LED Code	
	On	Changer working normally. (Tube Value) OK 27.85 GBP
After Pressing Mode Button	LED Codes for when in Set-up or Service Mode	
		Changegiver is in Service Mode or in Set-up Mode and a menu option has been selected
Coin Accepted / Rejected	Coin Discrimination LED Codes	
	1 x Blink	Inserted coin was accepted
	2 x Blinks	Inserted coin was rejected - unknown (not recognised by discriminator)
	3 x Blinks	Coin rejected (Inhibited by machine or changegiver program settings)

Amber LED codes

The amber LED allows you to pinpoint a fault that may have occurred on one of the modules of the changegiver. These types of fault can be rectified at the machine and can be for example caused by; a coin jam, dirt built up or the cassette has been removed etc. The changegiver also indicates on its display which module is being affected.

Amber Flashes	Changegiver Maintenance LED Codes	
1 x	Discriminator error	Coin jam validator optics
2 x	Accept gate error	Coin jam tube path
3 x	Separator module top level sensor Tube cassette error	Coin count error D
4 x	Dispenser module error	Tubes jammed C D

Selecting a Predefined Cassette

The changegiver has stored in memory a selection of predefined tube cassettes. Each cassette allows a different payout option to be selected. (See table below). Using the buttons on the keypad, press the button sequence as shown on the table or refer to the tube cassettes front label for the button sequence. Once the changegiver has accepted the code, the chosen cassette will be set.

To select a predefined cassette, Press **D** followed by the cassette code. Finally press **F** "Save" to confirm.

Cassette Code	Tube A	Tube B	Tube C	Tube D	Tube E	Tube F
AAA	50p	5p	£1	5p	20p	10p
AAB	50p	20p	£1	5p	20p	10p
AAC	50p	20p	10p	5p	20p	10p
AAD	50p	5p	10p	5p	20p	10p
AAE	50p	1p	10p	5p	20p	2p
AAF	50p	5p	20p	5p	20p	10p
ABA	£2	£1	10p	20p	£1	50p

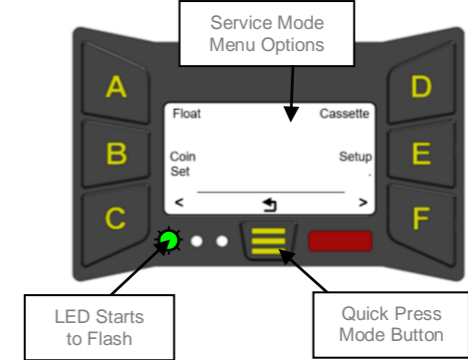
Defining a Custom Cassette

If the payout you require is not predefined you can custom program your own. The changegiver follows the restriction map listed below.

Coin	Tube	Slide	Tube Restriction Map					
			A	B	C	D	E	F
(GBP)	(mm)	(Colour)						
1p	22.5	Grey	✓	✓	✓	✓	✓	✓
2p	27.5	Blue	✓	✓	✓	✓	✓	✓
5p	19.5	Green	✓	✓	✓	✓	✓	✓
10p	25.5	Green	✓	✓	✓	✓	✓	✓
20p	22.5	Green	✓	✓	✓	✓	✓	✓
50p	30.0	Green	✓	✓	✓	✓	✓	✓
£1	25.5	Grey	✓	✓	✓	✓	✓	✓
£2	30.0	Grey	✓	✓	✓	✓	✓	✓

Accessing the Service Mode Menu

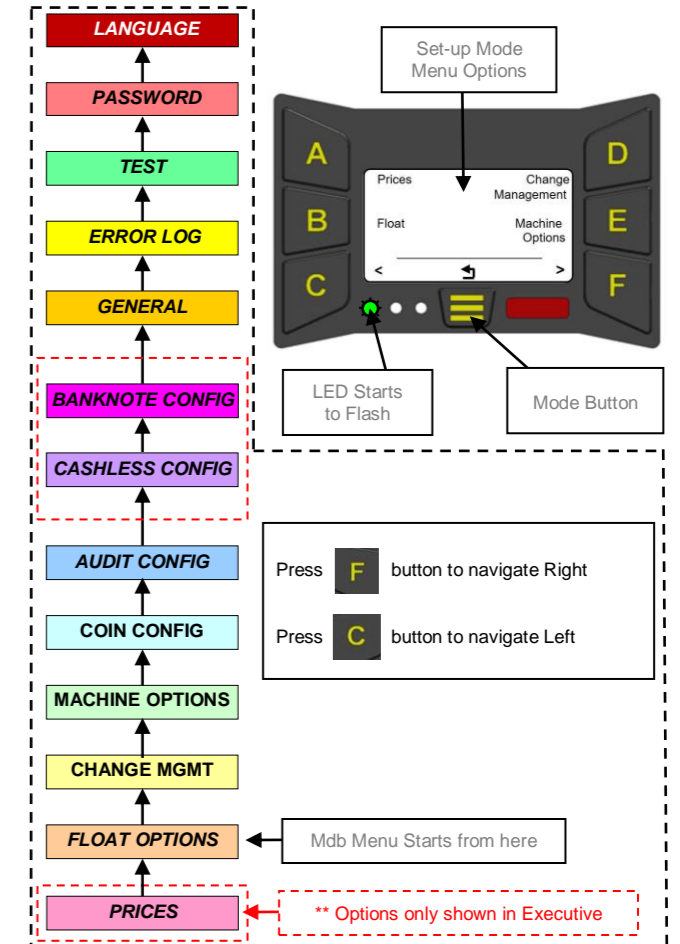
A Quick press of the yellow mode button will take you into the **Service Mode menus**. The display will change to show the options available. (see picture below). Once in this mode the green LED will start to flash. Using the buttons, select the option required.



Accessing the Set-up Mode Menu

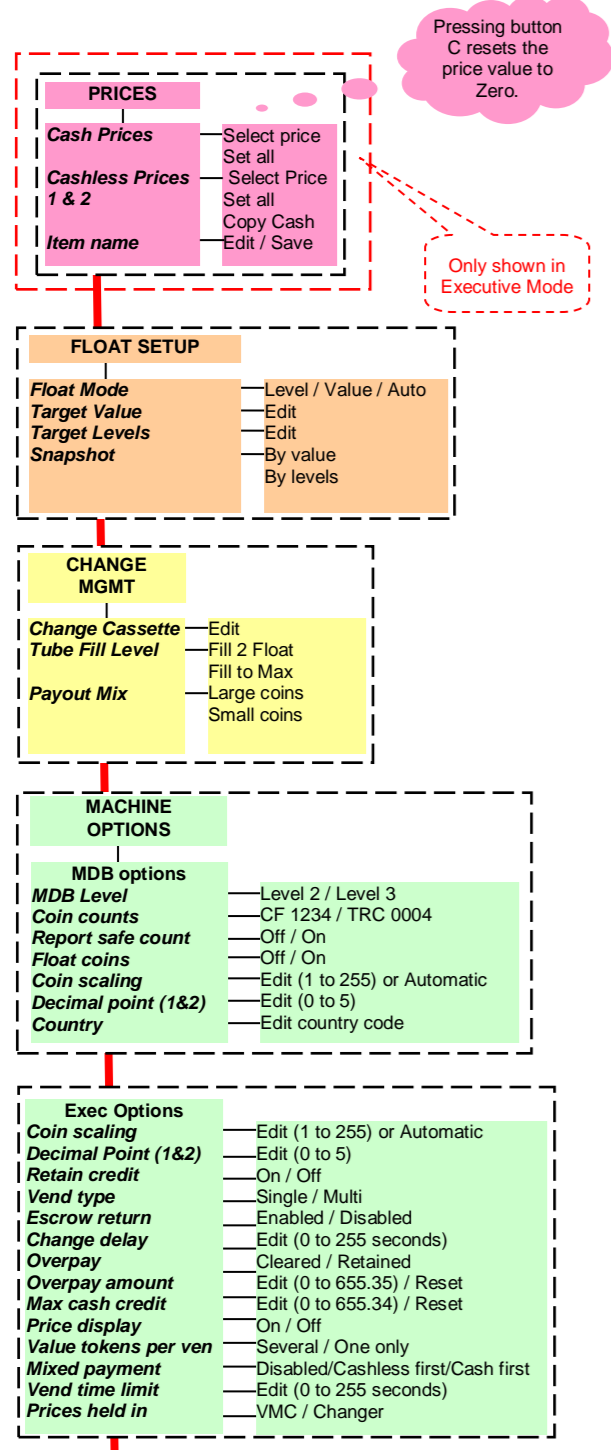
To access the **Set-up Mode** menus, press the mode button followed by the E button. Or press and hold the mode button for 3 seconds.

The display will now show the first menu page available. Press the F button to navigate Right and the C button to navigate Left. (see picture below).



Set-up Mode Menus

This chart shows a detailed structure of the **Set-up** Menus. To access the **Set-up Mode** menus, Press the Mode button followed by the E button.



BDV Options
As EXEC plus

- Award discount — Edit (0 to 655.35) / Reset
- Trigger discount — Edit (0 to 655.35) / Reset
- Maximum change — Edit (0 to 655.34) / Reset
- Exact change alg — Auto / Manual BDV
- BDV Exact Change eqn — Edit (eqn 0 to 12)
- BDV Exact chg offset — Edit (0 to 255)
- BDV Exact chg coin 1-14 — Enable / Disable

COIN CONFIG

- Token teach — Teach 1 / Teach 2 / Teach 3
- Coin setup — Accepted / Rejected / High Acceptance / High Security
- Channel Setup — Enabled / Disabled
- Exchange rate 2 to 1 — Edit

AUDIT CONFIG

- Machine ID — Edit / Save / Reset
- Asset Number — Edit / Save / Reset
- Reset Audit — Reset interims / Reset / Reset all / Reset

CASHLESS CONFIG

- Cashless 1 & 2**
 - Max cashless credit — Edit (0 to 655.35) / Reset
 - Reader cancel button — Off / On
 - Revalue mode — Auto / Manually
 - Vend approve timeout — Edit (0 to 255 seconds)
- System revalue limit — Edit / Save
- Cashless revalue limit — Edit / Save
- Always idle — Disabled/Cashless 1/Cashless 2
- Cash sales reporting — Disabled/Same/Other/All cash
- Cash sales reader — Cashless 1 / Cashless 2
- 1 based item numbers — Off / On

BANKNOTE CONFIG

- Max bill credit — Edit (0 to 655.34) / Reset
- Highest value — Edit (0 to 655.34) / Reset
- Escrow threshold — Edit (0 to 655.34) / Reset
- Enable in ex. Change — On / Off
- Recycler capable — On / Off
- Change machine — On / Off

GENERAL

- Calibrate tubes — Calibrate
- Currency Accepted — Only one / All
- Clean-me level — 1 to 100% (50% default)
- Start Menu options — Enable / Disable
- Inventory keys A-F — Enable / Disable / VMC control
- Settings — Save / Restore
- Display contrast — 1 to 100% (30% default)
- Idle screen amount — Inventory / Payable / Cashbox / Nothing
- Level sense — On / Off

ERROR LOG

- View — Last 10 errors
- Reset — Delete error log? / Delete / Cancel

TEST

- Auto self-tests**
 - S-T Managr / CasseteSens / PwrMonitor
 - CX2 Interf / MDB Interf / MMI module
 - Extern1MEM / RealTimClk / CoinLevSns
 - CassettSens / Dispenser / CoinAccept
- Manual self-tests**
- Gates**
 - All gates
 - Accept gate
 - Cashbox gate
 - Right/Left gate
 - Front/Back gate
 - Middle/Sides gate
- Info**
 - Changer — View information
 - Validator — View information
 - Calibrated cassette — View information

PASSWORD

- Password — Edit (3 digit) / OK

LANGUAGE

- Language — Not set / English US / English GB

Display - Symbol Indicators

During the change giver programming or normal operation, icons may be shown on the display. These icons will indicate if the change giver requires any attention or will assist you in selecting a particular program mode.



Symbol	Meaning	Comment
>	Menu navigation	Navigate screen to the right
<	Menu navigation	Navigate screen to the left
^	Menu navigation	Move up through a menu or increase a value setting
v	Menu navigation	Move down through a menu or decrease a value setting
↶	Menu navigation	Back one screen or Exit
😊	Smiley face	Change giver is OK
😐	Average face	Change giver requires assistance
😞	Sad face	Change giver requires replacing
🔌	Maintenance	Connected to USB
💻	Maintenance	Connected via USB to PC
⊗	Maintenance	Error detected