

Rangemaster Chip Card Loader User manual



Order code: CCC-2
Revision Date: 20.02.2023

TABLE OF CONTENTS

1. DESCRIPTION OF THE UNIT.....	3
1.1 FEATURES.....	3
1.2 TECHNICAL DATA.....	3
1.3 COMPATIBLE PRODUCTS.....	3
2. LEGEND.....	4
3. OPERATION.....	5
3.1 SWITCHING ON.....	5
3.2 TYPES OF CARDS.....	5
3.3 ADMINISTRATIVE SECTION.....	6
3.3.1 COUNTERS.....	6
3.3.2 DEVICE SETTINGS.....	7
3.3.2.1 POWER OFF DELAY.....	7
3.3.2.2 BUZZER.....	7
3.3.3 SET YEAR CODE.....	8
3.3.4 CASH OR TARGETS.....	8
3.3.4.1 CURRENCY.....	9
3.3.5 SET MAX AMOUNT.....	9
3.3.6 NAME MODE.....	10
3.3.7 CARD NUMBER MODE.....	11
3.3.8 CARD NUMBER.....	11
3.3.9 SET PIN.....	12
3.4 LOADING MONEY/TRAGETS ON THE CARD.....	13
3.4.1 CHANGE CUSTOMER GROUP.....	13
3.5 ERASE PREPAID CARD.....	14
3.6 MODE AND LAYOUT CARDS.....	15
3.6.1 LAYOUT CARDS.....	15
3.6.2 MODE CARDS.....	15
3.6.2.1 MODE CARD CODES.....	17
3.7 TROUBLESHOOTING.....	18
4. LIMITED WARRANTY.....	19
5. RMA FORM.....	20

Copyright Maxima WarenhandelsGmbH © Rangemaster Systems - all material published on this manual is protected by copyright including design of circuits and software.

You are expressly prohibited from electronically storing any material found here or republishing it by any means. Furthermore it is prohibited to reverse-engineer software or hardware, disassemble or copy software or hardware or parts of it.

This unit has been carefully produced for / by:

Maxima WarenhandelsGmbH

© Rangemaster Systems

Dr.Robert Graf Straße 64/9,

8010, Graz, Austria

Phone: +43 699 104 03 204

Fax: +43 720 920 195

Mail: info@rangemaster.at

Web: www.rangemaster.at

1. DESCRIPTION OF THE UNIT

Rangemaster CCC-2 is a handheld chip card loader with LCD display which allows to assign and clear prepaid chip cards, load or remove values (cash or targets) on/from the card.

1.1 FEATURES

- Assign prepayment chip cards
- Loads credit on chip cards
- Decreases credit from the chip card
- Sets layout cards
- Sets mode cards
- Sets/changes customer code
- Has resettable counters built in to check the loaded amount
- Activates only after entering PIN code
- Clears cards
- Adjustable auto power off

1.2 TECHNICAL DATA

IP-Level:	IP 20
Power supply:	2x9V battery, alkaline
Operational temp.:	10°C up to 40°C
Storage temperature:	-10°C up to 60°C
Acceptable humidity:	0°C up to 95% rel., non-condensating
Dimensions:	length: 19.5cm, width: 10cm, height: 3cm
Weight:	approx. 0,4 kg
Display:	LCD, 4x16 digits/letters with back light
Keys:	12 x numeric keys, 7 function keys, on/off key Molded self adhesive protective plastic keypad
Chip card reader	built in (both for contact and contactless chipcards)
Counter:	2 counters, resettable with admin card
Max. money load	Settable
Max.clays load:	Settable between 1 to 9999

1.3 COMPATIBLE PRODUCTS

Sequencers

Rangemaster X3 Flash sequencer

[X3FLASH](#)

Rangemaster X2 PRO sequencer (control unit)

[X2 PRO](#)

Rangemaster X2 PLUS sequencer (control unit)

[X2](#)

Rangemaster X1 PRO

[X1 PRO](#)

Rangemaster X1 sequencer (control unit)

[X1](#)**Remote controls**

Multifunctional smart remote control TXSMART

[TXSMART](#)**Payment systems & others**

RIFLE 2020 STAND ALONE

[RAT2020](#)**2. LEGEND**

3. OPERATION

3.1 SWITCHING ON

To switch on the device keep the on button pressed until you see the following messages:

RANGEMASTER
SYSTEMS

Card Loader
v:1.A019
31.03.2020

>> Enter PIN <<

Enter correct pin code and press OK to be able to start working with the device. To set up the PIN, administrator needs administrative card (refer to 3.3.9). Pin Code and Administrative Pin Code are supplied with product. You can change later.

After entering PIN code, device is ready for use. You will see >Card Please< message on the display.

To switch the device off keep ON/OFF button pressed. If the device is not used for a certain period of time, it will be automatically switched off. To set the time refer to 3.3.2.1

3.2 TYPES OF CARDS

- **Administrative cards** for accessing Administrative Setup/Section and for changing Year Code
- **Prepaid Cards** for Loading/decharging and Changing Customer Group as well as card names, also erase the card
- **Layout cards** – for writing RFID tags to be used with TXSMART and TXSPO16
- **Mode cards**
- **Pay mode card** – used for changing the device from free mode (without prepaid cards) to pay mode - for reading/verifying only
- **Free mode card** - used for changing the device from pay mode to free mode (without prepaid cards) – for reading/verifying only

3.3 ADMINISTRATIVE SECTION

Insert administrative card to activate administration section. In this section administrator can:

- check/reset counter of loaded cash/targets
- set power off time
- switch in/off buzzer
- set year code
- set cash or target mode
- set maximum amount which can be stored on the customers card
- set name/number modes
- set up PIN code

3.3.1 COUNTERS

First section in the administrative menu is Counters. Here administrator can check the value which was loaded or deduced since the last reset:

- added cash
- deleted cash
- added targets
- deleted targets

SELECT SETTINGS: Counters		
PREV.	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

COUNTERS:		
Added cash		
1560,00 EUR		
BACK	RESET	NEXT

M2 (RESET) button resets the existing value on the counter to 0.

M1 (BACK) button returns to the previous section

M3 (NEXT) button moves to the next subsection (deleted cash, added targets, deleted targets) which can be reset.

COUNTERS:		
Added targets		
200		
BACK	RESET	NEXT

3.3.2 DEVICE SETTINGS

In this section administrator can set up:

- Power off delay
- Buzzer

SELECT SETTINGS: Device settings		
PREV.	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

3.3.2.1 POWER OFF DELAY

To increase or reduce the power off time use **M2 (CHNG)** button. Maximum: 600 sec, minimum: 30 sec. Incremental step: 10 sec.

SELECT SETTINGS: Power off delay 60s.		
BACK	CHNG	OK

To save changes press **M3 (OK)**. Button **M1 (BACK)** returns back without saving the changes (in case **OK** button was not pressed).

3.3.2.2 BUZZER

This section allows to switch on or off the beeper which beeps when any button is pressed.

SELECT SETTINGS: Buzzer OFF		
BACK	CHNG	OK

M2 (CHNG) button switches on or switches off the buzzer. To save changes press **M3 (OK)**. Button **M1 (BACK)** returns back without saving the changes (in case OK button was not pressed).

3.3.3 SET YEAR CODE

In this section administrator can set a new Year Code.

Year Code is an optional feature used to force cardholders turn to the shooting ground's front desk to have the code updated. Cards with old Year Code cannot be used until updated.

SELECT SETTINGS: Set Year Code		
PREV	SEL.	NEXT

M2 (SEL.) button enter the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

YEAR CODE Enabled		
BACK	CHNG	OK

M2 (CHNG) button enables or disables the Year Code option. To save changes press **M3 (OK)**. Button **M1 (BACK)** returns back to the previous section.

If the Year Code option is activated, device will ask you enter a new one to administrative card.

YEAR CODE: 20	
BACK	SAVE

Year Code Updated

3.3.4 CASH OR TARGETS

In this section administrator activates cash or target mode, so he can load cash value or targets on the prepaid card (*depends on the equipment and shooting ground policy*).

SELECT SETTINGS: Cash or Targets		
PREV	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV) button returns to the previous section

M3 (NEXT) button moves to the next section

PAYMENT TYPE:		
Cash		
BACK	CHNG	OK

M2 (CHNG) button shifts between **Cash** and **Target** option. To save changes press **M3 (OK)**. Button **M1 (BACK)** returns back without saving the changes (in case OK button was not pressed).

3.3.4.1 CURRENCY

In case administrator sets cash in the previous section 3.3.4 CASH OR TARGETS, CURRENCY section will be shown where he has to set the currency:

SELECT SETTINGS:		
Currency		
PREV	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

SET CURRENCY:		
EUR		
BACK	CHNG	OK

To change the value press **M2 (CHNG)** button. To save changes press **M3 (OK)**. Button **M1 (BACK)** returns back without saving the changes (in case OK button was not pressed).

3.3.5 SET MAX AMOUNT

In this section administrator can set the maximum value which can be loaded and stored on the shooters' prepaid cards (cash or targets, depending on which option is activated).

SELECT SETTINGS:		
Set Max Amount		
PREV	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

In case TARGETS mode is activated (section 3.3.4), administrator sets the maximum amount of targets/clays:

MAX AMOUNT	
100	
BACK	SAVE

In case CASH mode is activated (section 3.3.4), administrator sets the maximum amount of cash:

MAX AMOUNT	
100,00 EUR	
BACK	SAVE

Enter the maximum value using digit buttons. To save changes press **M3 (SAVE)**. Button **M1 (BACK)** returns back without saving the changes (in case SAVE button was not pressed).

3.3.6 NAME MODE

In this section administrator set the prepaid card name mode, which allows to set the mode where the name of the card holder is shown (*depending on which equipment is installed and shooting ground policy*).

- **No card name** – in this mode existing card name can't be overwritten or changed by this device.
(Use this mode in case you use this device as an extension one for the CCS Card Reader/Software unit and you setup cards using CCS).
If CCC2 is your only device to handle cards, then go for Automatic card name or manual card name:
- **Manual change** – in this mode card name can be renamed manually by user with alphanumeric letters (*use this mode if shooting ground wants to enter shooters names or numbers manually using CCC-2 only*)
- **Auto change** – in this mode card name is changed automatically to card number (*used in case shooting ground is using CCC-2 device for loading money only*)

SELECT SETTINGS:		
Name Mode		
PREV	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

CARD NAME MODE: No card name		
BACK	CHNG	OK

M2 (CHNG) button shifts between three card name modes (*No card name, Manual change or Auto change*). To save changes press **M3 (OK)**. Button **M1 (BACK)** returns back without saving the changes (in case OK button was not pressed)

3.3.7 CARD NUMBER MODE

SELECT SETTINGS: Card Num Mode		
PREV	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

REPLACE CARD NUM Enabled		
BACK	CHNG	OK

By pressing **M2 (CHNG)** button shifts between **Enabled** and **Disabled** option. To save changes press **M3 (OK)**. Button **M1 (BACK)** returns back without saving the changes (in case OK button was not pressed).

In case you use this device as an extension (in field device) for your existing CCS Card Reader/Software unit and you setup cards using CCS, then disable "Replace card number"

If CCC2 is your only device to handle cards, then enable "replace card number"

3.3.8 CARD NUMBER

In this section administrator sets the value which will be set to the prepaid card and each new card will get number increased +1 (e.g. set number is 10001, so the next card will get number 10002, next one 10003 and so on).

SELECT SETTINGS: Card Number		
PREV	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

STARTING CARDNUM 10001	
BACK	SAVE

Enter the value using digit buttons. To save changes press **M3 (SAVE)**. Button **M1 (BACK)** returns back without saving the changes (in case **SAVE** button was not pressed).

If you disabled “replace card number” and you disabled card name, then you can skip this section.

3.3.9 SET PIN

In this section administrator sets the PIN code which is used to activate the device.

NOTE: *to set the PIN code for the first time administrator first has to enter (Number written on label shipped).*

SELECT SETTINGS: Set PIN		
PREV	SEL.	NEXT

M2 (SEL.) button enters the section

M1 (PREV.) button returns to the previous section

M3 (NEXT) button moves to the next section

SET PIN xxx	
BACK	SAVE

Enter the value using digit buttons. To save changes press **M3 (SAVE)**. Button **M1 (BACK)** returns back without saving the changes (in case **SAVE** button was not pressed).

3.4 LOADING MONEY/TRAGETS ON THE CARD

To load cash value on the customer prepaid card:

- insert the shooter's card:

PAY CARD		
Gr.A	CARD#10016	
0,00 EUR		
INCR	CHNG	DECR

- press **M1 (INCR)** button to add value on the card (money or rounds):

ENTER VALUE	
0,00 EUR	
+0,00 EUR	
BACK	SAVE

- using digit buttons, enter the value and press **M3 (SAVE)**. To go to the previous section press **M1 (BACK)**.

- to decrease (deduce the amount from the card) use **M3 (DECR)** button.

KEYS AND BUTTONS NOTE: **ERASE** key erases the last entered symbol; **CLEAR** key clears all entered value.

ENTER VALUE	
0,00 EUR	
-0,00 EUR	
BACK	SAVE

3.4.1 CHANGE CUSTOMER GROUP

After inserting a customer prepaid chip card, press **M2 (CHNG)** button:

PAY CARD		
Gr.A	CARD#10016	
0,00 EUR		
INCR	CHNG	DECR

ENTER GROUP		
A		
BACK	CHNG	OK

M2 (CHNG) - changes the group name by shifting to the next letter

M1 (BACK) returns back without saving the changes.

M3 (OK) - saves the changes and returns to the previous section

Why setting customer groups:

If you have Rangemaster devices using Money credit, you have to assign a customer group to each card. Customer groups will select the correct pricing models when decharging.

If you use Rangemaster CashMaster in target mode, then you also have to assign customer groups to chip cards. (as ChasMaster recalculates bills to targets in accordance to customer group).

3.5 ERASE PREPAID CARD

To erase the used prepaid card to be able to reuse it, insert the prepaid card and press ERASE key.

PAY CARD		
Gr.A	CARD#10016	
0,00 EUR		
INCR	CHNG	DECR

CLEAR CARD	
NO	YES

To clear the card press **M3 (YES)** button. **M1 (NO)** returns back without changes.

Following data will be completely erased:

- Card name
- Money on card
- Targets on card
- Rounds on card (loaded using CCS)
- card number
- customer group

In case a card was cleared, after inserting it again the following information will be shown on the display:

ENTER GROUP		
A		
BACK	CHNG	OK

To change the customer group press **M2 (CHNG)** button – refer to 3.4.1.

PAY CARD		
Gr. C	CARD 10004	
0		
INCR	CHNG	DECR

After that card will get a number (e.g. 10004) in case the auto change mode is activated – refer to 3.3.6 section. In case you have manual name activated, you can enter the name of the card (*numbers or latins letter for the name of the shooter, in case you do not have CCS device on your shooting ground*).

3.6 MODE AND LAYOUT CARDS

3.6.1 LAYOUT CARDS

Layout cards are used to change the layout number automatically so customer can easily change the layout number by inserting or attaching the card to the device without pushing any button.

When the layout card is inserted, device will ask if you want to change the layout card number.

LAYOUT CARD	
Layout: 0	
Change?	
NO	YES

To change the number, press **M3 (YES)** button.

LAYOUT CARD	
Layout: 0	
Save?	
BACK	SAVE

Using digit buttons on the device to choose the layout number and press **M3 (SAVE)** button and remove the card.

Remove Card

To go back to the previous section press **M1 (BACK)** button.

3.6.2 MODE CARDS

Mode cards are used to change the discipline of the device by inserting or attaching the mode card without pushing any button.

When the mode card is inserted, device will ask if you want to change the layout card number.

MODE CARD	
Layout: 0	
Change?	
NO	YES

To change the number, press **M3 (YES)** button.

MODE CARD	
Layout: 0	
Save?	
BACK	SAVE

Using digital keys choose the layout number and press **M3 (SAVE)** button and remove the card. To go back to the previous section press **M1 (BACK)** button.

3.6.2.1 MODE CARD CODES

DISCIPLINE MODES	DESCRIPTION OF THE DISCIPLINE	MODE CODE
TRAP FO	Olympic Trench (Trap) Qualification round +first 25 targets of Final 2017	1
TRAP FO F2	Olympic Trench (Trap) Targets 26..50 in Final	2
TRAP FO S/O	Olympic Trench (Trap) Shoot off after Qualification and Finals	3
TFO SPECIAL	Olympic Trench (Trap) Station training with manual release or microphones (Phono Pull)	4
TRAP FU	Universal Trench Round – 5 traps	5
TRAP FA	Wobble Trap	6
TRAP JFO-DE	German Hunting Trench – 15 traps	7
TRAP JFA-DE	German Hunting American Trench	8
DTL	Down the line	9
ATA	American trap	10
DT 2017 R.	Double Trap Qualification round and first 30 targets of Final	11
DT 2017 S/O	Double Trap Shoot off after Qualification and Finals	12
SKEET ROUND	Skeet Qualification round: Station 1..8	13
SKEET J-AT	Special Austrian Hunting Skeet	14
SKEET J-DE	Special German Hunting Skeet	15
SKEET MAN	Skeet Station training with manual release or microphones (Phono Pull)	16
SKEET S/O 4	Skeet Shoot off after Qualification - Station 4 only	17
SKEET FINAL	Skeet Final - Station 3-5 – Version 2022	18
SKEET S/O 3-5	Skeet Shoot off - Stations 3,4,5	19
SPORTING MANUAL	8 channel manual release with remote control	20
NORDIC TRAP	Nordic trap	31
DOUBLESPOORT -R	Double sporting with 25 doubles on report	171-178
DOUBLESPOORT-S	Double sporting with 25 simultaneous doubles	181-188
COMPAK FT	Compact Sporting: training mode with manual release via remote control or microphone with target selection	34
SPORT-TRAP	Sport Trap	251-258
SKEET MIXED	Skeet Mixed, 4 shooters, max. 20 targets each	36
SKEET TEAMS	Skeet Teams, 6 Shooters, max 20 targets each	37
TRAP MIXED	Trap Mixed, 4 shooters, max. 25 targets each	38
TRAP TEAMS	Trap Teams, 6 Shooters, max 25 targets each	39
COMPAK SPORTING - ROUND MODE:		
8xCOMPAK 5S0D	Compak sporting round 5 singles 0 doubles (8 FITASC schemes)	101-108
8xCOMPAK 3S1DR	Compak sporting round 3 singles 1 double on report (8 FITASC schemes)	109-116
8xCOMPAK 3S1DS	Compak sporting round 3 singles 1 simultaneous double (8 FITASC schemes)	117-124
8xCOMPAK 1S2DR	Compak sporting round 1 single 2 doubles on report (8 FITASC schemes)	125-132
8xCOMPAK 1S2DS	Compak sporting round 1 single 2 simultaneous doubles (8 FITASC schemes)	133-140
COMPAK SPORTING - IN-LINE MODE:		
8xCOMPAK 5S0D	Compak sporting in-line 5 singles 0 doubles (8 FITASC schemes)	201-208
8xCOMPAK 3S1DR	Compak sporting in-line 3 singles 1 double on report (8 FITASC schemes)	209-216
8xCOMPAK 3S1DS	Compak sporting in-line 3 singles 1 simultaneous double (8 FITASC schemes)	217-224
8xCOMPAK 1S2DR	Compak sporting in-line 1 single 2 doubles on report (8 FITASC schemes)	225-232
8xCOMPAK 1S2DS	Compak sporting in-line 1 single 2 simultaneous doubles (8 FITASC schemes)	233-240

3.7 TROUBLESHOOTING

Nº	Issue	Possible reason	Solution
1.	Device doesn't switch on	Battery is low	Change batteries (2x9V).
2.	Amount can't be loaded on the card	1.Amount has exceeded the maximum amount allowed	1. Increase the amount allowed – refer to 3.3.5
Error message shown on display when card is inserted			
1.	Invalid card Error:4A0B Remove card	1. Card is inserted incorrectly 2. Card is damaged	1. Insert card correctly 2. Give a customer a new card
2.	0x4A03	Wrong card	Remove a card and insert it once again. If you see the same message, give a customer a new card.
3.	0x4A04	Card/ICaR: read or write error	
4.	0x4A05	Year code error	
5.	0x4A06	Incorrect data in the credits cells	
6.	0x4A07	Incorrect customer ID	
7.	0x4A08	Incorrect data in the other cells	
8.	Card Full	Card is overloaded	

4. LIMITED WARRANTY

Rangemaster Systems gives a limited warranty on this products against defects in material or workmanship for time of 12 months.

This period starts upon receipt of the product.

Rangemaster System will not be liable for loss of data or loss of profit or turnover due to a defect.

The warranty only includes repair or replacement of defect components, which failed during daily use. "Daily use" has to be read as: Use in accordance to specifications and in intended use.

General information & warranty exclusions: Damages due to water, moisture, vandalism, lightening, surges over power line or power supply, usage outside of specifications, excessive heat or cold (both for operation and storage) damages because of dropping the product, unnecessary force, damages because of empty or discharged batteries or accumulators are warranty exclusions and do not entitle you for a free of charge repair or replacement.

In case of chip card readers with contacts are built in the product. Items or dirt inside the reader are warranty exclusions.

In case of touch screens are built in the product: Damages due to improper use (using something else than your finger) causing scratches or punctures on the screen or on the touch surface will not be covered with warranty.

Please ask for a RMA number by sending an email to support@rangemaster.at
Add invoice number, date of invoice and serial number of product.
Also add a detailed description of errors.

Return unit for repair to:

Maxima WarenhandelsGmbH
© Rangemaster Systems – Ext. Storage
8082 Weissenbach 9
Austria/Europe

Show your RMA number of the box. Send us a tracking link after returning the product to us.

5. RMA FORM

To:

Maxima WarenhandelsGmbH
© Rangemaster Systems – Ext. Storage
8082 Weissenbach 9
Austria/Europe

RMA: _____

Date: ____/____/____

Date of purchase	
Supplied by	
Invoice number (Please attach copy of invoice)	
Product serial number	
Description of error	

Please return to:

Name	
Club	
Address 1	
Address 2	
Zip code	
City/Town	
Country	
Phone	
E-Mail	