SHUFFLE KING II
User manual

CASINO SHUFFLER

The product is in conformity with requirements of the EMC Directive 2004/108/EC, with reference to electromagnetic compatibility.

$$CE$$

Table of Contents

1 Package contents

1x Card shuffler
1x Power adapter 230/24VDC
1x Power cord
1x Boss key

Attention!!!

- Remove safety bolt before turning on the shuffler after transport.
- In transporting or storage of the shuffler at low temperatures, it is necessary to let the shuffler get warm to the room temperature for 30 minutes, at least, before use.
- When you turn on the cold machine, the shuffler automatically starts the heating cycle (up to 18°C), which can take several minutes. During heating cycle the internal mechanism is moving and the shuffler can not be used for card shuffling. Above 18°C the shuffler is ready for use.
- Do not cover the bottom ventilation openings and fan cover.
- Do not block the shuffler cap against opening and do not lean against it.
- Do not use the cards if they are bent or otherwise mechanically damaged.
- Do not interfere with the internal mechanism of the machine during shuffling.
- The deck height may not exceed the edge designated in Fig. 8.

2 Transport safety bolt

Fig. 1

Transport safety bolt (Fig. 1) is used to lock the internal movable mechanism of the shuffler in order to protect it against damage during transport. On the picture you can see the plain nut (upper) and self-locking nut (lower) on the bolt ends. The plain nut is used for tightening the bolt on the outer side of the shuffler (Fig.2). Do not remove the self-locking nut from the bolt.

Do not forget:

- to remove the safety bolt before turning on the shuffler after transport
- to keep the safety bolt
- to always secure the internal mechanism by the safety bolt before any shipments

⚠️ Possible warranty repair may not be accepted in case the internal shuffler mechanism is not secured by the safety bolt during shipping!

2.1 Handling with safety bolt

To remove the safety bolt, please remove the nut (Fig. 2), open the big service cover (Fig. 3) and remove the safety bolt (Fig. 4). Perform reverse this procedure for locking the mechanism before any shipments.
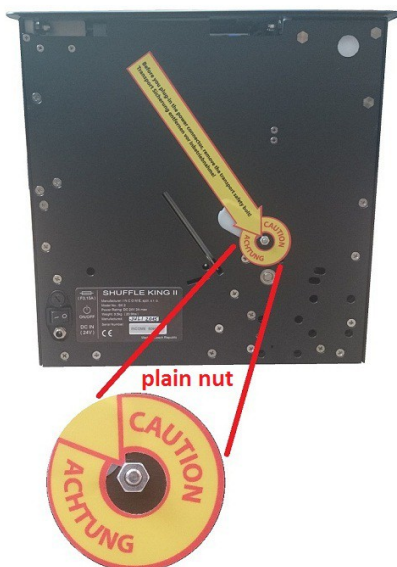
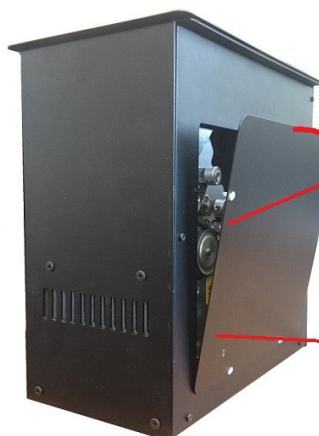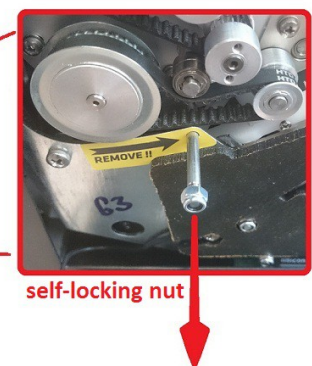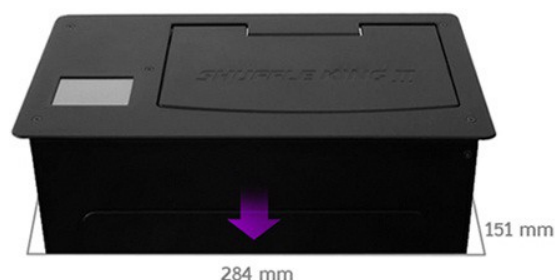Fig. 2   Fig. 3   Fig. 4

3 Specification and working conditions

Shuffler dimensions (length x width x depth even with the top panel):   280 x 146 x 288
Top panel dimensions (on the table):   293 x 170 mm
Dimensions of the table hole (tolerance +2mm in both directions):   284 x 151 mm
Weight: 9.5 kg

Shuffling time: 35s max.
Feed: 24VD, 2A max.
Working temperature: 20 to 35°C
Relative humidity: 10 to 90% (non-condensing)
Working position: vertically with the lid on top

⚠ The shuffler Shuffle King 2 shall only be used with the delivered Power adapter type: SUNNY: SYS1443-xy-T3.

4 Shuffler description

The shuffler is designed for one pack of plastic or paper cards with the size of 88 x 63 mm max.; it is also possible to use narrow cards with dimensions of 88 x 57 mm. Shuffler divides cards into 52 trays. Excessive cards in the deck will stay unshuffled in the insertion compartment. Height of an inserted deck may not exceed the edge designated in Fig. 8.
Shuffling of cards will be accomplished in a single cycle. Cards are randomly distributed to 52 trays one by one, and they are subsequently lifted to the position for withdrawal. Each card is counted; the total number is shown on display. If there is a different number than 52, operator is notified about a wrong card number in the inserted deck by the notice on display.

Fig. 5:

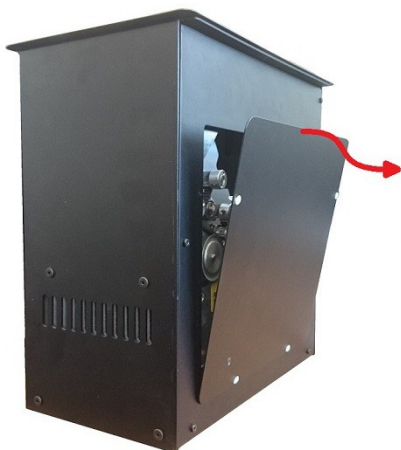Fig. 6 - Opened shuffler:

Fig. 7 - Service cover opening:
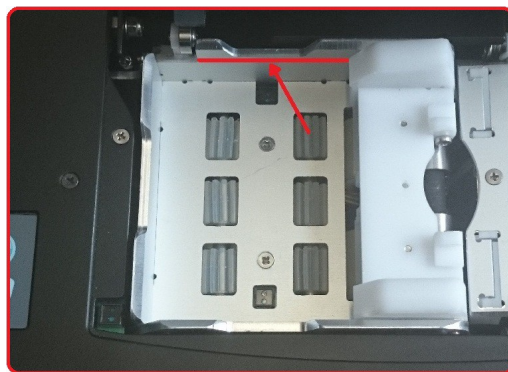

Fig. 8 - deck height:

Fig. 9:

1 – Fuse sleeve
2 – Master switch
3 – Power connector
4 – Two connectors located under the fan are used only in cases of servicing by manufacturer.
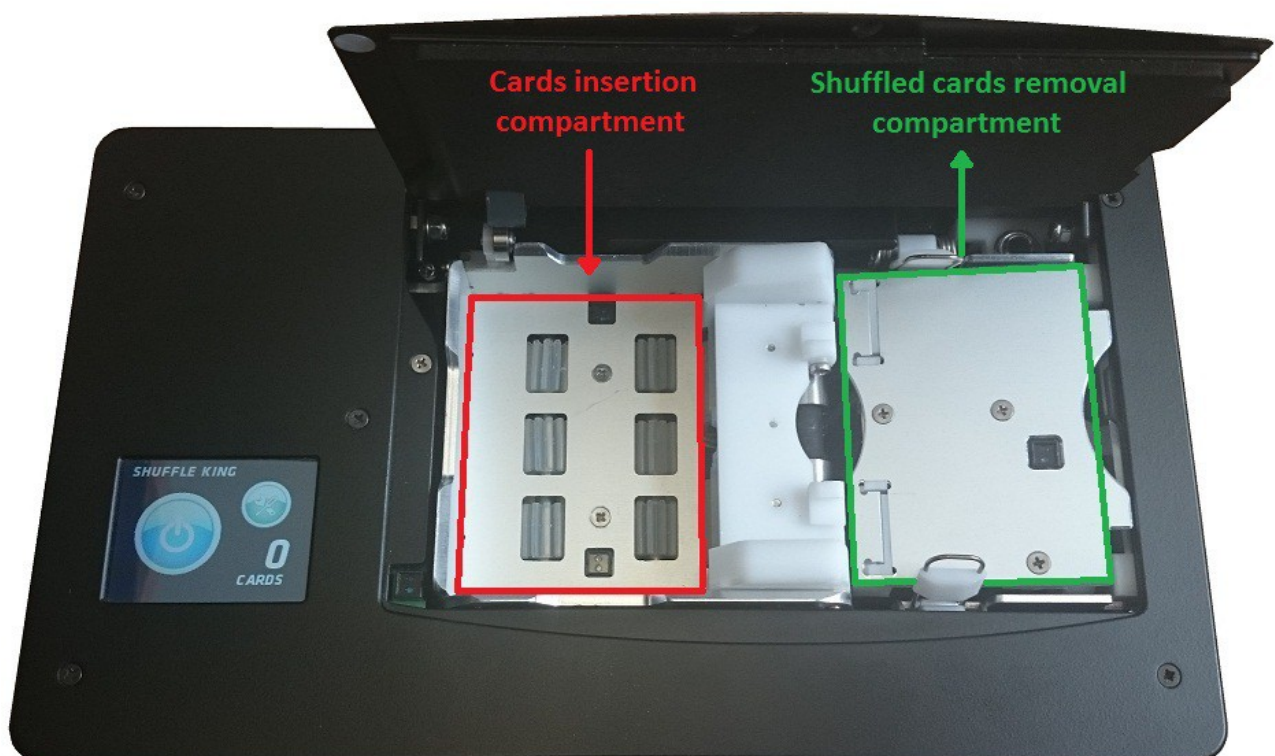
5 Shuffler operation

The shuffler Shuffle King 2 shall only be in use with safe low voltage power supply corresponding with the shuffler model tag labeling.

5.1 Putting in operation

Connect the power cord to mains and to the power adapter. Connect the power adapter to shuffler. Turn on the shuffler using master switch (Fig. 9).
After switching on, a dim motif with a big and small button will appear on the display. After depressing the big button, carriers will drive out and the shuffler lid will open (Fig. 10).

Fig. 10:

5.2 Card shuffling procedure

Fig. 11:

After the cards deck is inserted into the insertion compartment (Fig. 10), the big button turns green (Fig. 11) and you can start shuffle by pressing it. Subsequent shuffling can not be interrupted by the user.
During the shuffling process you can see a running count of shuffled cards.
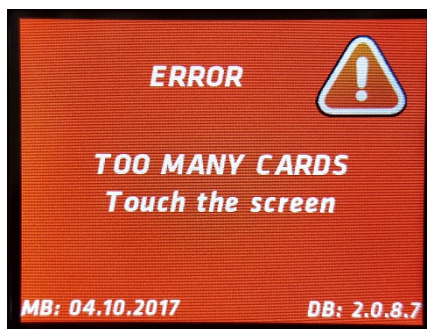
Fig. 12:

When shuffling is completed in the correct count of 52, the total number of cards in shuffled deck is displayed (Fig. 12) and you can open the shuffler by pressing the big green button. Shuffled cards ready to remove will appear in the removal compartment (Fig. 10).

In rare case if the position of removal compartment is lower than usual, you can additionally lift it before removing the cards, by repeated pressing the big button.

In case that incorrect number of cards was counted, the error message will appear on the display after shuffling, informing about too many cards (Fig. 13) or too few cards:

Fig. 13:

By touching the screen you will return to the main screen (Fig. 12) where you can see the current count and open the shuffler by pressing the big button.

If there are too many cards, please first remove unshuffled excessive cards out from the insertion compartment (to avoid autostart), then the remaining cards from the removal compartment. Check the cards and possibly correctness of cards width setting.

5.3 Autostart function

Use two decks of cards. When opening the shuffler after first deck shuffling, you can see the deck on the removal compartment. Insert the new deck into the insertion compartment and then remove the shuffled deck. The shuffler will automatically start to shuffle the new deck, without pressing the big button. Autostart function can be disabled in shuffler settings.
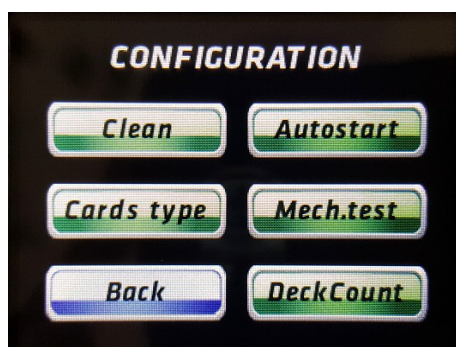
5.4 Turning off the shuffler

Fig. 14:

Empty both compartments for cards insertion and removal. The big button will turn blue (Fig. 14). By pressing it close the shuffler. Now you can safely turn off the shuffler using the master switch (Fig. 9).

6 Shuffler settings

By pressing the small button on the main screen, you can access shuffler settings. Read below all explanatory notes for the options in settings.

6.1 Configuration (1)

Clean – you can start and stop cleaning mode.
Autostart – you can turn on / off the autostart function.
Cards type – choose correct width (57 or 63 mm) and material (plastic / paper) of cards you are using.
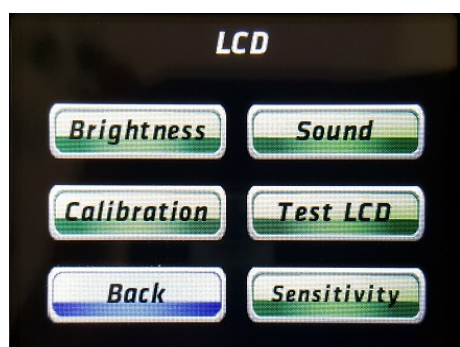*Mech.test* – this function is used only by developers
DeckCount – allows to choose between shuffle of 52 or 53 cards in a deck

⚠ Incorrectly selected card width can cause miscounting!

6.2 LCD settings (2)

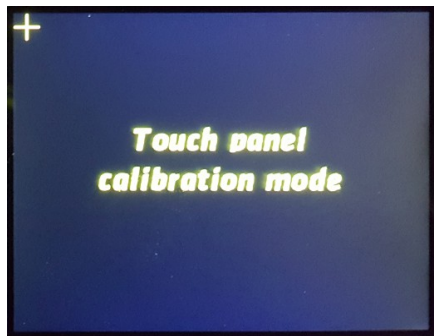*Brightness* – you can set the display brightness at several intensities.
Sound – you can turn on / off sound of display.
Calibration – pressing the button will start the display calibration for touch control (Fig. 15).
Test LCD – this function is used only by developers
Sensitivity – allows you to adjust the sensitivity of the display to touch. *In the case of collecting cards by the croupier over the display, choose a lower sensitivity to prevent accidental button press on the display.*

Fig. 15:

Use display Calibration function if display does not react correctly to touches.
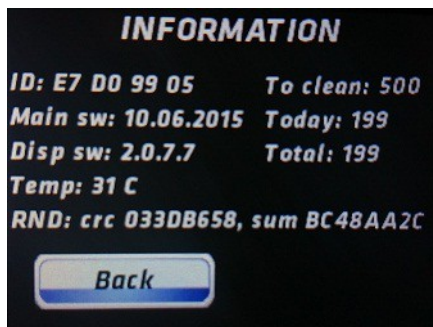
When starting the display calibration from the menu, a black screen (blue screen with older versions) appears with a small cross in the upper left corner. Touch the center of the cross with a pointed tool. Then the 2. cross appears in the lower right corner, touch its center too → display calibration is completed.

If it is not possible to start calibration from the menu due to poor calibration setting, you can start the new calibration after turning off the machine by the master switch and subsequent turning on with simultaneously pressed screen.
Beware of starting unwanted display calibration when turning on the shuffler!

6.3 Information (3)

ID – each shuffler has its own unique ID.

Main sw – a current software version of the shuffler.

Disp sw – a current software version of the display.

Temp – a current shuffler temperature.

RND, sum – GLI control code.

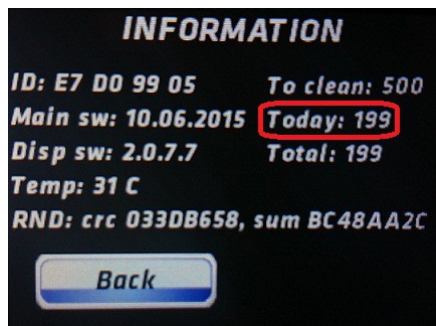To clean – number of shuffling cycles remaining to display a notice recommending cleaning.

Today – this counter records each shuffling cycle since the last resetting that can be done using Boss key feature.

Total – this counter records each shuffling cycle for the entire period.

6.4 Boss key feature (4)

In order to monitor the utilization of the shuffler for a certain period, the shuffler has a separate resettable *Today* counter:

Today counter records each shuffling cycle since the last resetting that can be done in Manager menu after connecting a boss key.

After connecting the boss key (Fig. 17) to the connector located below the top-lid (Fig. 16), you can access Manager menu from Settings.

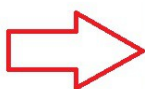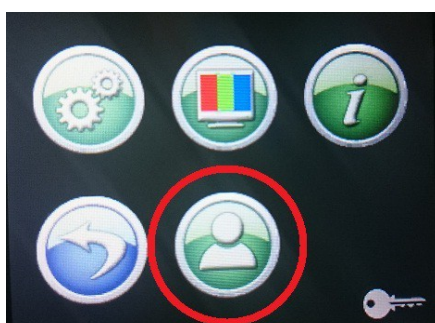Fig. 16   Fig. 17

Manager button in settings will turn green and a key image appears in the lower right corner on the display. After pressing the manager button, you can access the manager menu and reset *Today* counter by pressing *Null* button.

7 Cleaning of shuffler

Please see our detailed sample video of cleaning the shuffler at the link below:
https://www.youtube.com/watch?v=IPr3I_xbJoY

Before cleaning it is necessary to make sure that both cards compartments are empty and let the compartments in opened position. You can start cleaning mode by pressing *Clean* button in Configuration menu, accessible from Settings.

During start of cleaning mode, the compartment for cards removal will go down to a lower position and all rollers start to rotate. For better access, remove the filter part (Fig. 18). Thoroughly clean all silicone rollers with a piece of cloth or cotton swab soaked in pure petrol or isopropylalkohol (do not use petrol cleaner, acetone and similar aggressive liquids). Do not forget to clean the silicone rollers of the filtration part.

Cleaning of all rollers is recommended after each 500 shuffling cycles to achieve smooth operation. Shuffler reminds the need of cleaning by a notice on display after each 500 cycles from the last cleaning. This information has no impact on the shuffler function, the operator is just notified of the necessity to perform cleaning. To remove this notice, a cleaning mode should be started.

Check cleanness of the optical cells as well – possible deposits of dust (Fig. 19, Fig. 20). Cleaning of optical cells is recommended once a month.

Given the operation frequency and cleanness of the environment, the shuffler should be sometimes cleaned from the deposited dust and other contaminants even inside after opening service cover.

At the end of cleaning, do not forget to put back the filtration part. The pins must fit into the holes in the side boards – an audible click!
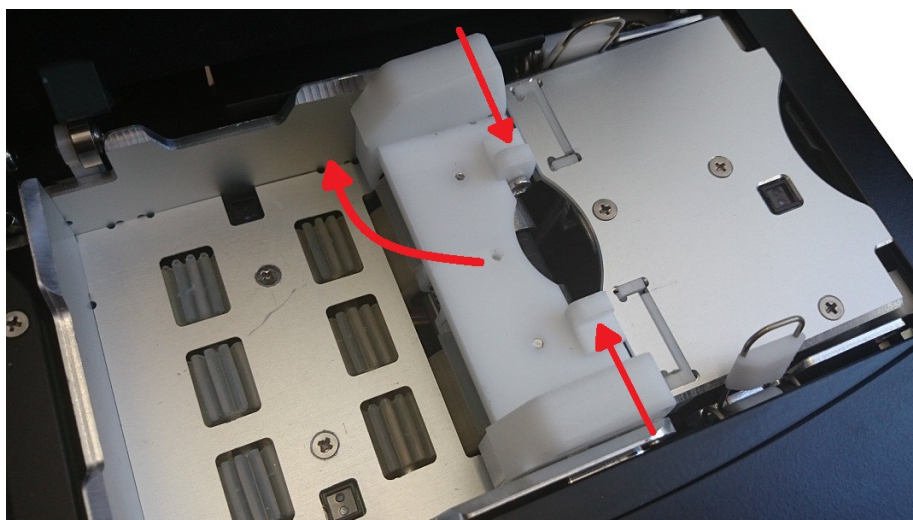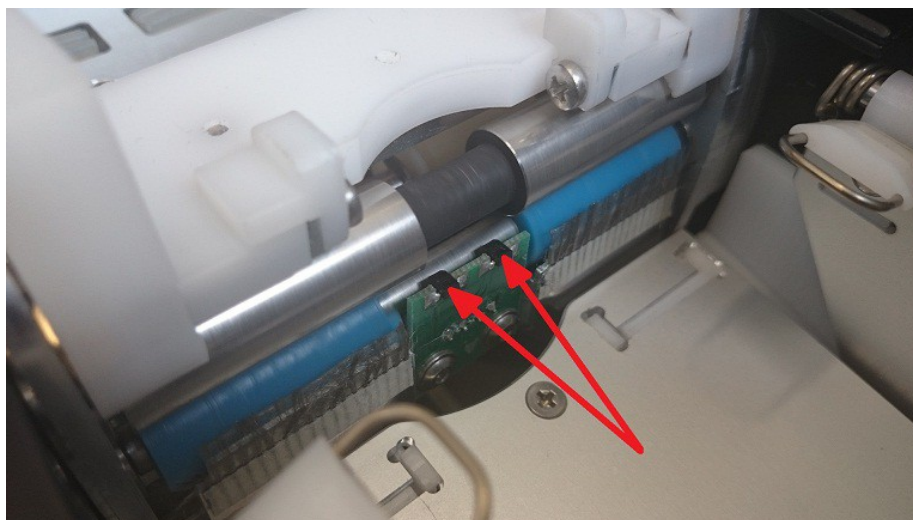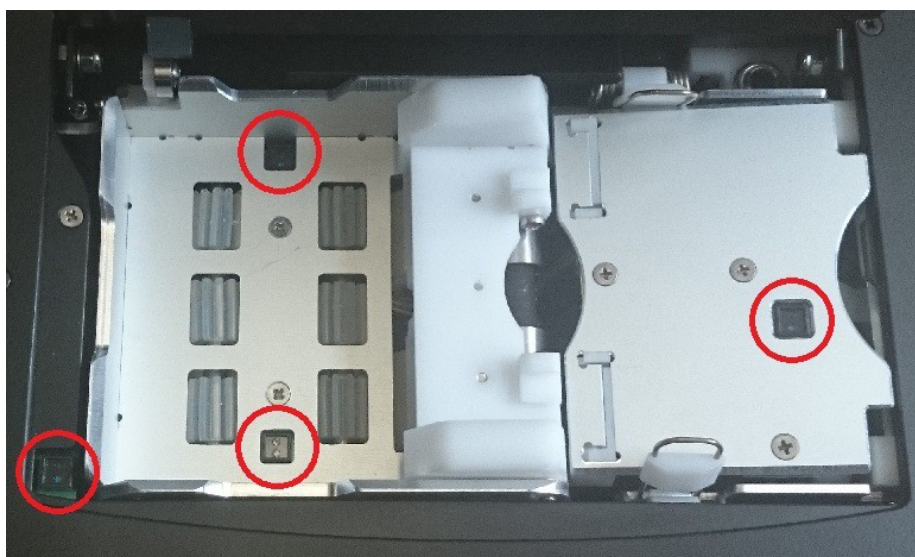
Fig. 18:

Fig. 19:

Fig. 20:

7.1 Anti-static brushes

⚠️ The latest shufflers use anti-static brushes to prevent any possibility of problem caused by statical electricity. The anti-static brushes are placed in front of the lower (blue) end rollers – visible in Fig. 19. When cleaning be careful not to damage them!

8 Troubleshooting

If you encounter any problem or have additional questions, please do not hesitate to contact our technical support at support@casinoshuffler.com .

Do not forget to provide us with a detailed description of the problem including:

–   Serial number of the shuffler (it can be found on the bottom side sticker - see Fig. 9)
–   Total number of shuffling cycles
–   Photographic or video documentation if possible