

# Roca Sorter

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Overview for Operators

Last Edited - 9/30/2022

# Topics

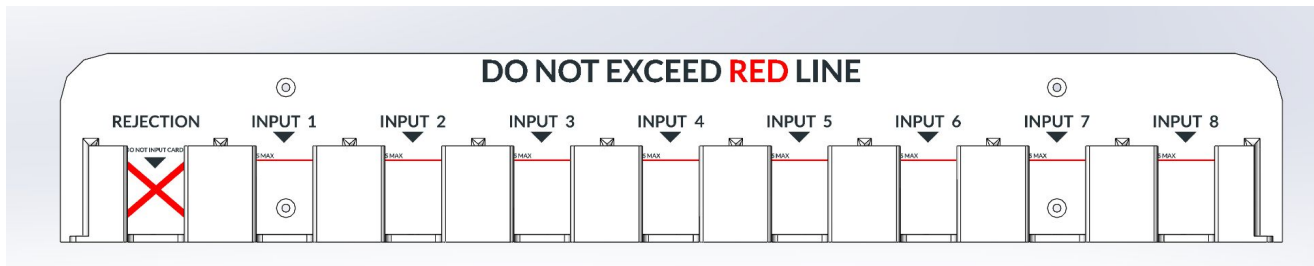
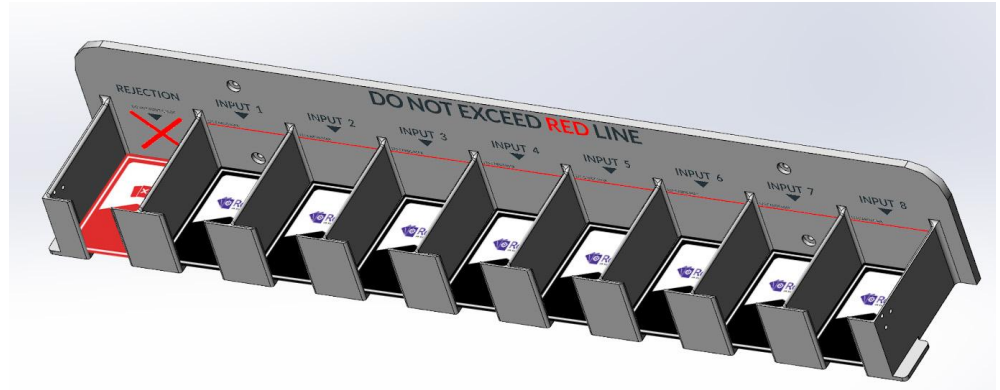
1. Overview of Sorting Algorithms
2. Power, Pausing, and Emergency Stop
3. Key Roca Sorter Settings
4. Maintenance
5. Basic Error Message Overview
6. Card Recognition Notes



# Input Tray & Sort Algorithms

# Input Tray Overview

- Don't Overfill Past Red Line
- Don't Fill "Rejection"
- Always use 2 handles, put Input Tray flat against the Floor of the machine, and push straight in.



# SORT Algorithm

Set, Name | Name, Set | Set, Collector Number | Color | Rarity | Other Combos Available

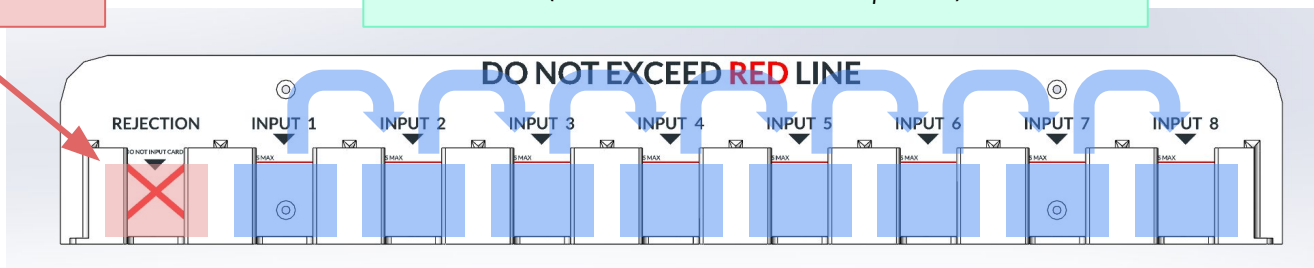
This algorithm will re-order the cards into a sorted 1,000 card series (most commonly Set then Alphabetical by Name).

**NO** Green Divider Cards are Needed

Fully Load All 8 Input Tray Slots

**Rejected** Cards

**Sorted** Cards  
(Continuous 1000 Card Sequence)



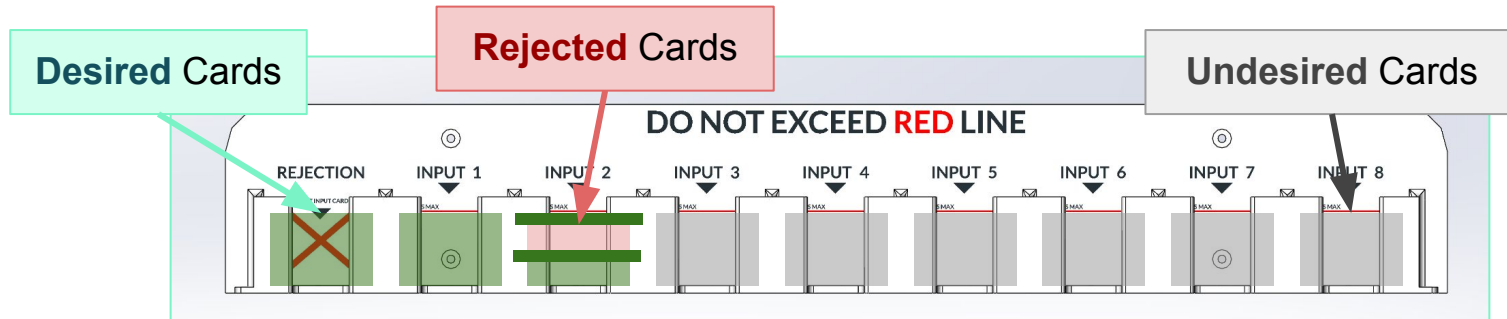
# SIFT Algorithm

Bulk Sift (Price) | Bulk Sift w Rarity

This algorithm will separate  
Desired/Valuable cards from  
Undesired/Bulk.

**2** Green Divider Cards are  
Needed

Load 1-7. **Leave 8 Open.**



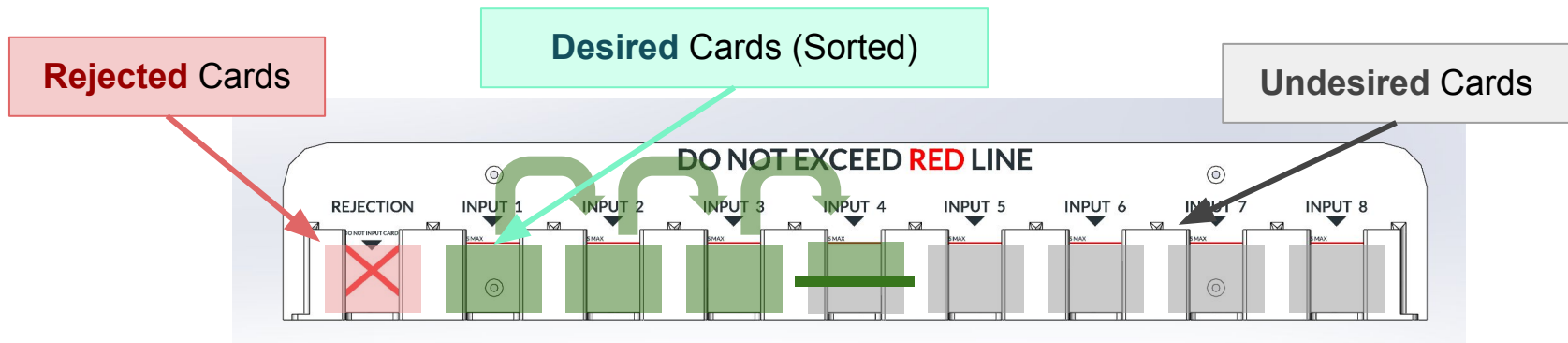
# SIFT+SORT Algorithm

Price Sift, Set-Name | Price Sift, Set-Name (Sort Both)

This algorithm separates cards into categories (e.g. desired/undesired) and then sorts one or both of the categories.

1 Green Divider Card is Needed

Fully Load All 8 Input Tray Slots





# Power, Pausing, Emergency Stop

# Power, Pausing, Emergency Stop

- **To power down the Roca**, press the silver button on the front and wait (~20 seconds) for the lights to turn off. Then flip the switch on the back to fully power down.
- **If you are concerned about something, use the Emergency Stop.** However, once you press the emergency stop, you will need to reboot the machine and run Recover Cards.
- **To Pause a Sort**, you can remove the input tray, and put it back in when ready to resume.
- **To “Abort” a Sort**, the fastest thing to do is to take out the input tray, remove all of the cards, and let the machine finish.

The background of the image is a collection of Magic: The Gathering cards held in a white binder. The cards are arranged in a grid, and the entire scene is overlaid with a semi-transparent blue gradient. The text 'Important Roca Sorter Settings' is centered in a bold, white, sans-serif font.

# Important Roca Sorter Settings

# Foil / Condition / Language

At the start of each Sort, you should specify a Foil, Condition, and Language for the cards you are about to Sort.

Game	YuGiOh
Foiling	Normal
Condition	Normal Rarity (Common, Rare, Super Rare, Ultra Rare) Premium Rarity (all other rarities)
Language	Prefer Normal Rarity (recognize any card, prefer normal rarity) Prefer Premium Rarity (recognize any card, prefer premium rarity)
Sort Name	Roca Test

Normal / Premium will only recognize cards that are available in that finish.

Legacy Normal / Legacy Premium will recognize any card.

# Set Order

When sorting by **Set**, by Default Sets will be ordered in Alphabetical order.

This can be changed to sort by TCGplayer Order, which is roughly reverse chronological with main sets first.

## Sort Ordering

Set Order:

Roca Default

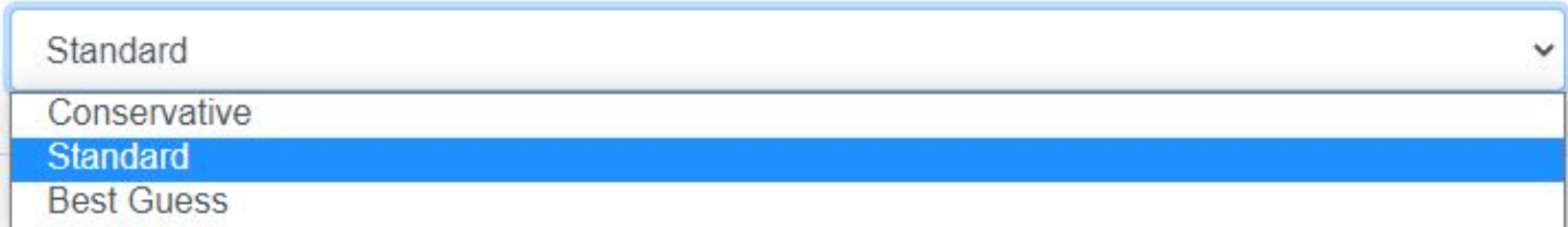


# Card Rejection Threshold - Recognition Confidence

As the Roca Sorter is identifying cards, it is aware of how Confident it is when deciding between similar looking cards (e.g. reprints with the same artwork across different sets). Changing the Card Rejection Threshold will cause the machine to err on the side of Rejecting cards, or taking its Best Guess.

## Recognition

Card Rejection Threshold:



A dropdown menu with a light blue border and a white background. The menu is open, showing four options: 'Standard', 'Conservative', 'Standard', and 'Best Guess'. The second 'Standard' option is highlighted with a blue background. A small downward-pointing arrow is visible in the top right corner of the menu.

**Unpriced Cards**

# Reject Unpriced Cards

Some cards do not have a Market Price available.

## Unpriced Cards

Reject cards if price unavailable.

**Especially during Sifting**, it may make sense to Reject these cards. Otherwise, they will be treated as having a price of \$0.00 and will be “Undesired”.

## Yusri, Fortune's Flame (MH2 Bundle)

Unique and Miscellaneous Promos



Presale Item: Ships after release date

Near Mint Foil

**\$6.00**

shipping: included

Power Leech Games

100% - (50000+ sales)

1

of 64

Add to Cart

PayPal Pay in 4 interest-free payments on qualifying purchases. [Learn more](#)

### Price Points

Foil Printing Prices

Market Price

Buylist Market Price

Listed Median Price

Date

6/14/21

6/14/21

6/14/21



You can see the % of remaining life by going to Menu. A warning will appear when something reaches 20%.

Status			
Filter life:	77%	<a href="#">Reset</a>	<a href="#">Request</a>
Piston life:	96%	<a href="#">Reset</a>	<a href="#">Request</a>
Grease life:	93%	<a href="#">Reset</a>	<a href="#">Request</a>
Pump life:	99%	<a href="#">Reset</a>	<a href="#">Request</a>

When you change out a part, press “Reset” to set the life back to 100%.

If you consume the last spare (or don't have a spare), press “Request” and we will send a new part.

Please SAVE all parts; we will provide a return shipping label for you to return them.

# Filter Replacement

**Filters are mounted to the back wall of the machine.**

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The filters can be replaced by pushing in on two sides of the ring around the tubing along with the tubing and then pull out on the tubing only while keeping the ring depressed.

To install the new filter, please press the tubing firmly into the new filter. As noted on the sticker, the silver end as viewed inside the clear housing should be on the right side of the machine when it is installed.

The top and bottom filters should be replaced at the same time and the little stub of tubing on the top filter should move to the new filter to keep the noise levels lower.

# Rail Grease

1. Locate a microfiber cloth and grease syringe (should be in your toolkit)
2. Use the microfiber cloth to carefully wipe the rails and remove any old grease and other contaminants from the rails.
3. Apply 4 pin head sized dots of grease along the bump where the wheels ride on each side of each rail. The screwdriver in the attached picture is pointing to the bump where the grease should be applied.
4. Press reset on the grease life on the Roca to bring the grease life back to 100%.
5. Continue to use the Roca. There is no need to spread the grease yourself - the Roca will do that as it moves around while sorting.



# Basic Error Message Overview

The background of the slide is a blue-tinted image of a grid of white folders. Each folder is slightly open, revealing a card with an error message. The cards are arranged in a perspective view, receding into the distance. The text 'Basic Error Message Overview' is centered in the foreground in a large, white, sans-serif font.

# Basic Error Messages (1 of 2)

- **Card Misplaced** - the machine sees (or thinks it sees) a card not properly placed in a bin and floating on top of the sorting bins. If this occasionally happens, you can replace the card and resume sorting. ***Double check that the thumbscrews securing the piston are tight.*** If this frequently/repeatedly happens, whether or not there is actually a card misplaced, contact Roca Robotics on Slack (issue with either pneumatics or alignment).
- **Piston Not Retracted** - especially if there was an issue earlier in a sort, sometimes the machine will try to pick up a card that isn't there, and the piston will send this error message. You can put a Green Roca Divider card under the piston and try again. If it is happening frequently, contact Roca Robotics on Slack.

# Basic Error Messages (2 of 2)

- **Connectivity Issues** - Try rebooting the machine. Verify that the Tablet is on the Roca Fi (or 5G) wireless network. If you can't get a connection, contact Roca Robotics on Slack.
- **Other** - We are here to help! Contact Roca Robotics on Slack.



**Happy Sorting!**