

USER MANUAL

CX Friction Feeders

CX-9 [S]; Version 1.0

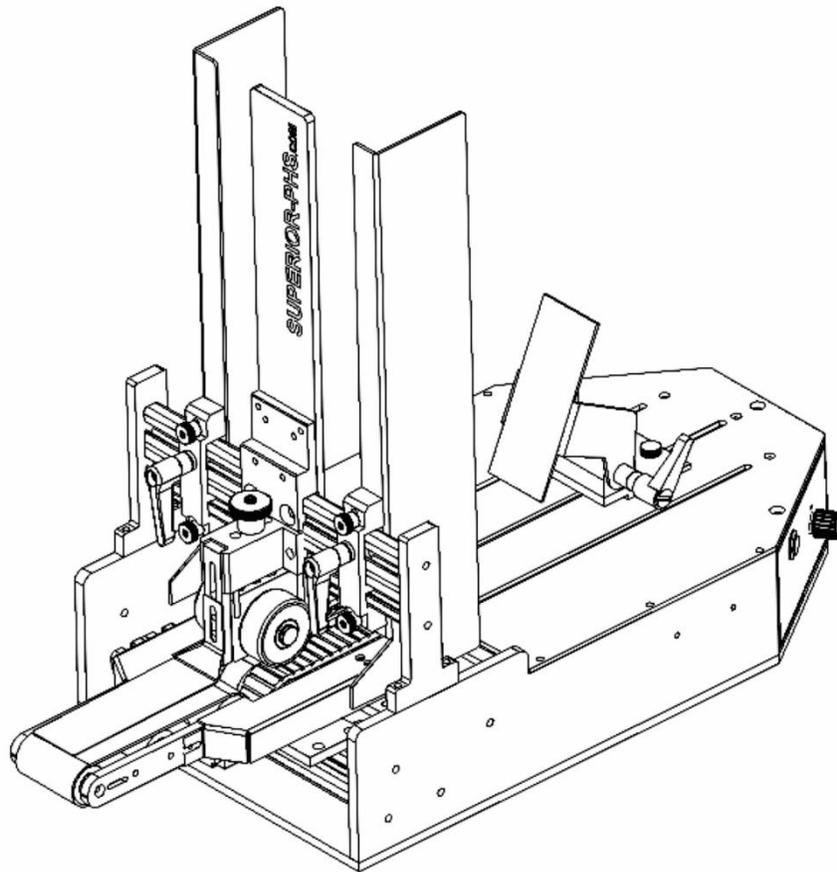


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Product Setup:

New Product to Feeder:

1. *[If purchased with a Hold Down Spring Band, otherwise go to the next step.]*
Loosen the adjustment screw to allow the Spring Band to float on the clear discharge belt. (Loosely)
2. Set the side guides to be the width of your product and lock them in place.
3. Set the back product wedge to the length of the product and lock it in place.
4. Raise the separator rollers by turning the knob CW.
5. Place a single sheet under the separator rollers and turn the knob CCW to bring the rollers down onto the product. Adjust so there is a small amount of resistance to the product as you try to pull it back.
6. *[If purchased with a Hold Down Spring Band, otherwise go to the next step.]*
Place a single sheet under the spring band and apply slight finger pressure from the top as you tighten the adjustment screw.
7. Load a small stack into the hopper with the stack fanned at the nose. (This will allow the first few pieces not to block as they enter the separator assembly.)
8. Finish loading the hopper by placing square stacks of product into it.
9. Cycle the feeder so that one piece is in the discharge area.

FEEDER IS READY TO RUN

SETUP References:

The two best rules of thumb for achieving a good setup are:

1. Generate a slight overhang of one product to the next as they leave the separator feed rollers. The discharge belt will complete the product separation as this section runs faster than the feed belts.
2. The product back wedge should allow for a few pieces on the feed belts, ready to move into the separator, but then hold the rest of the stack off the feed belts in the hopper.

Various product thicknesses and coatings can change slightly the rules above.

Visit <https://www.superior-phs.com/set-up-videos> for assistance with different products.

(You can look at any feeder we sell, as all our feeders are friction-based.)

Maintenance:

Belts:

Periodically clean the two feeder belts with a 70% or higher isopropyl alcohol. We suggest dampening a cloth, and with your finger, apply pressure to the belts as it's running. Then, find a dry section and repeat the process.

Rollers:

The CX feeders have one-way bearings inside the separator rollers. Periodically advance the rollers so you are not wearing the same roller area. (This will extend the life of the roller.)

Machine:

Periodically blow the feeder off with compressed air. Paper dust should be clear so as not to impede the performance.

Operating:

Stop/Ready modes:

When first powered, the feeder will advance until the product sensor is blocked (This requires a Dark-On sensor to be connected and operating. The feeder will not advance if no sensor is hooked up.) As product is pulled away from the sensor, the feeder will advance product until the sensor is blocked again.

The JOG button is used to assist setup. (Note: the product sensor must be blocked or disconnected for the on/off mode of the JOG button to be utilized)

Parts:

Order Placing:

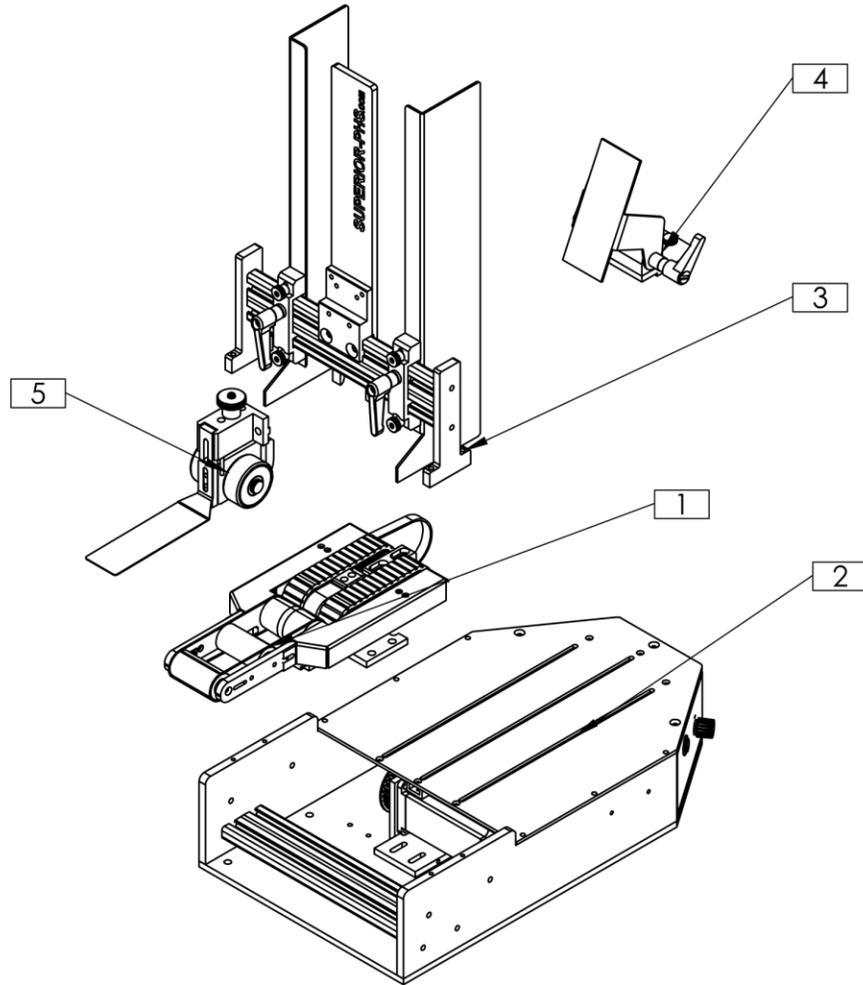
Contact Superior-PHS for all parts needed.

Our contact information can be found at: www.superior-phs.com

Illustrated parts breakout:

See the following pages:

CX-9S



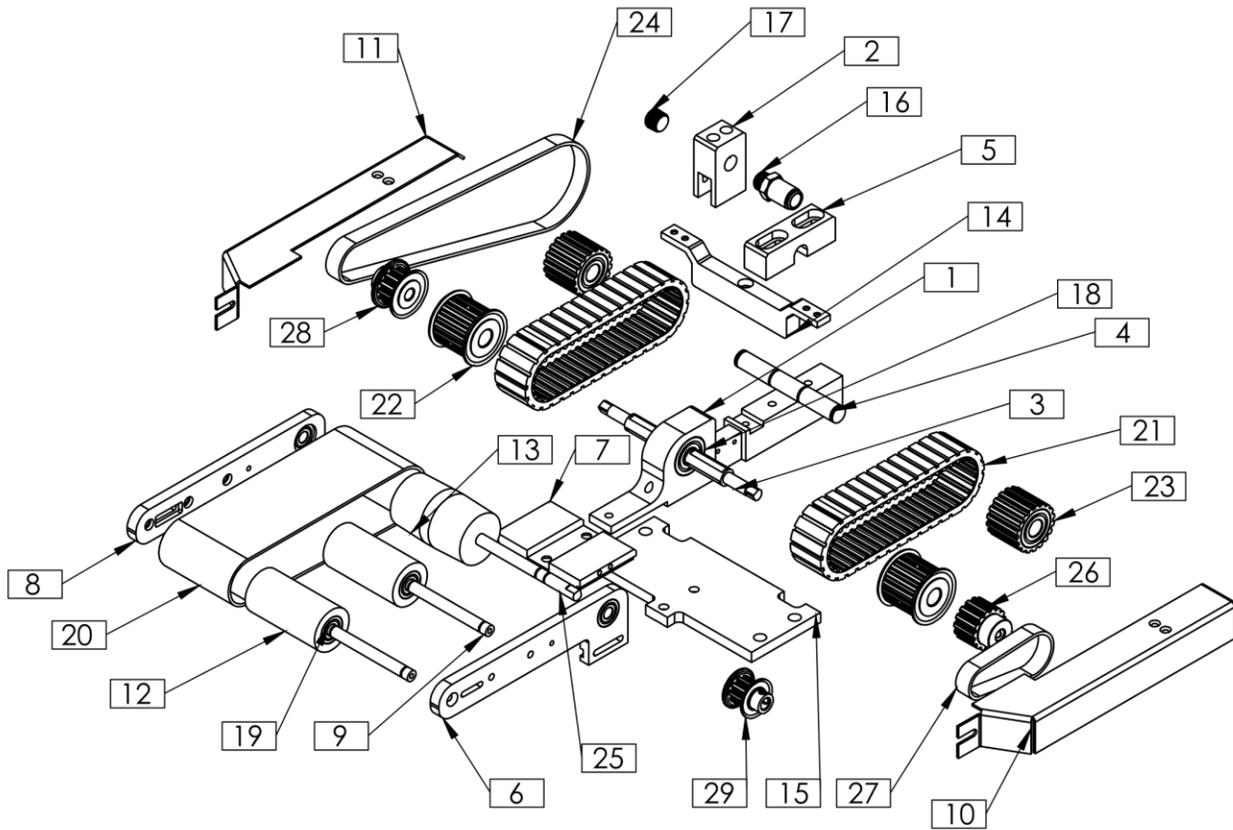
ITEM	PART	DESCRIPTION	QTY
1	400690S	CARRIAGE	1
2	400691S	CHASSIS	1
3	400692	HOPPER	1
4	400693	WEDGE	1
5	400686	SEPARATOR	1

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Assembly Number:
500050S

CARRIAGE



ITEM	PART	DESCRIPTION	QTY
1	303300	CARRIAGE RAIL	1
2	303301	VACUUM BLOCK	1
3	303302	DRIVE SHAFT	1
4	303303	IDLER SHAFT	1
5	303304	IDLER TENSION BLOCK	1
6	303305	LT DISCHARGE RAIL	1
7	303306	DISCHARGE RAIL BASE	1
8	303307	RT DISCHARGE RAIL	1
9	303308	DISCHARGE IDLER SHAFT	2
10	303309	LT CARRIAGE COVER	1
11	303311	RT CARRIAGE COVER	1
12	303313	DISCHARGE IDLER ROLLER	2
13	303314	DISCHARGE DRIVE ROLLER	1
14	303315	COVER SUPPORT	1
15	303316	CARRIAGE MOUNT PLATE	1

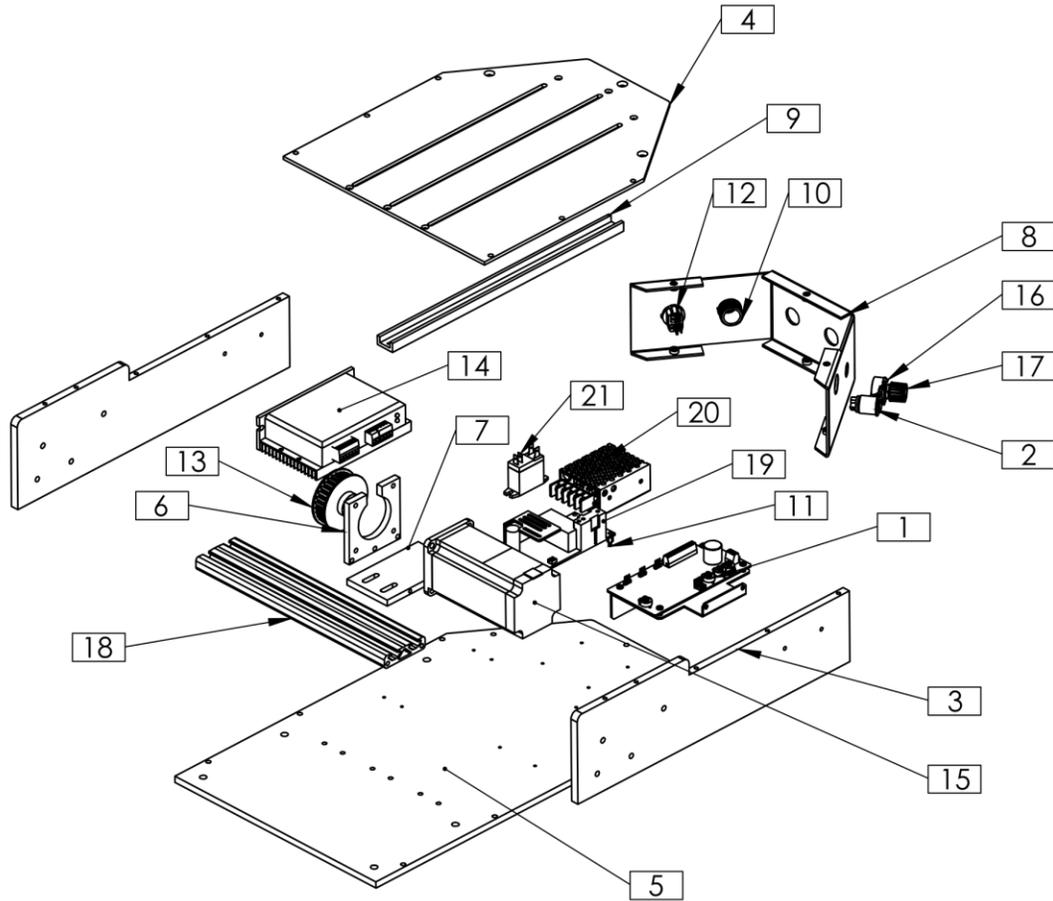
ITEM	PART	DESCRIPTION	QTY
16	350802	VACUUM INLET	1
17	350803	PLUG	1
18	100135	BEARING	6
19	100683	BEARING	6
20	350902	CLEAR BELT	1
21	311029	FEED BELT	2
22	350800	PULLEY	2
23	350801	IDLER PULLEY	2
24	100196	TIMING BELT	1
25	303312	DISCHARGE DRIVE SHAFT	1
26	350806	TIMING PULLEY	1
27	350807	TIMING BELT	1
28	350808	TIMING PULLEY	1
29	350809	TIMING PULLEY	1

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Assembly Number:
400690S

CHASSIS



ITEM	PART	DESCRIPTION	QTY
1	112011	PULSE GENERATOR BOARD	1
2	301381	PUSH BUTTON	1
3	303322	SIDE FRAME	2
4	303324	BACK BASE PLATE	1
5	303333	BOTTOM PLATE	1
6	303334	MOTOR PLATE UPRIGHT	1
7	303335	MOTOR MOUNT BASE	1
8	303336	OPERATOR PANEL	1
9	303360	SLOT CATCH	1
10	350773	CORD GRIP	1
11	350811	STANDOFF	4

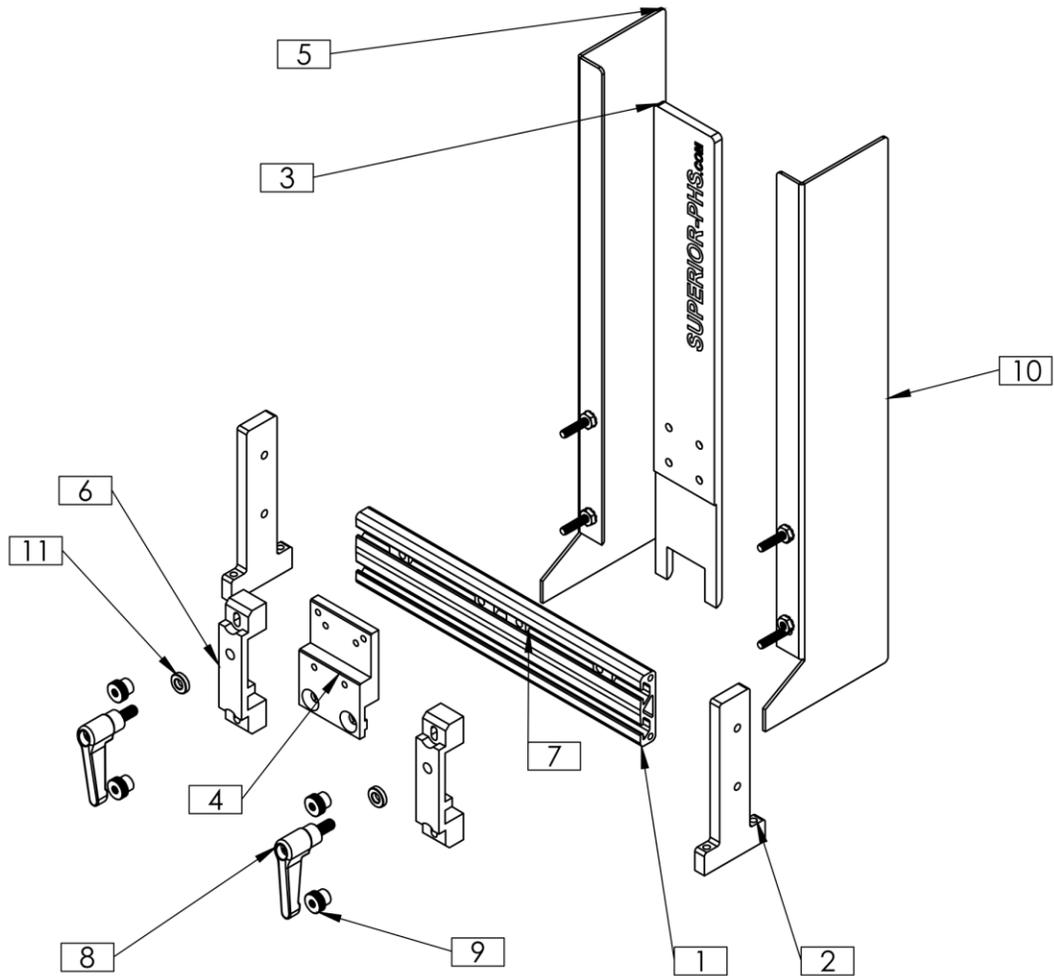
ITEM	PART	DESCRIPTION	QTY
12	350812	SWITCH	1
13	350813	TIMING PULLEY	1
14	350826	MOTOR DRIVE	1
15	350825	MOTOR	1
16	350833	POTENTIOMETER	1
17	350835	KNOB	1
18	350837-9.375	EXTRUSION BAR	1
19	350884	POWER SUPPLY	1
20	300851	POWER SUPPLY	1
21	350899	RELAY	1

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Assembly Number:
400691S

HOPPER



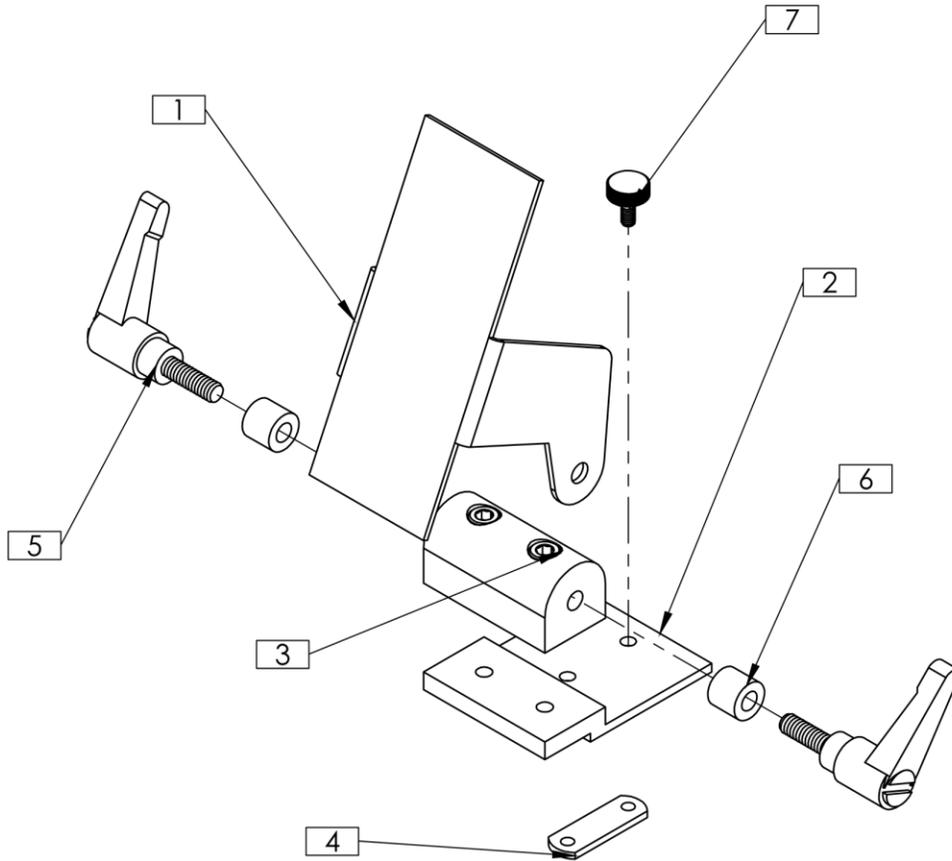
ITEM	PART	DESCRIPTION	QTY
1	350837-9.375	EXTRUSION BAR	1
2	303323	HOPPER SIDE FRAME	2
3	303320	CENTER GUIDE	1
4	303321	CENTER GUIDE MOUNT	1
5	303319	RT SIDE GUIDE	1
6	303331	ADJUSTMENT BLOCK	2
7	350836	DROP IN T-NUT	4
8	350855	THREADED HANDLE	2
9	350876	THUMB NUT	4
10	303318	LT SIDE GUIDE	1
11	HW	1/4 x .125 SPACER	2

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Assembly Number:
400692

WEDGE



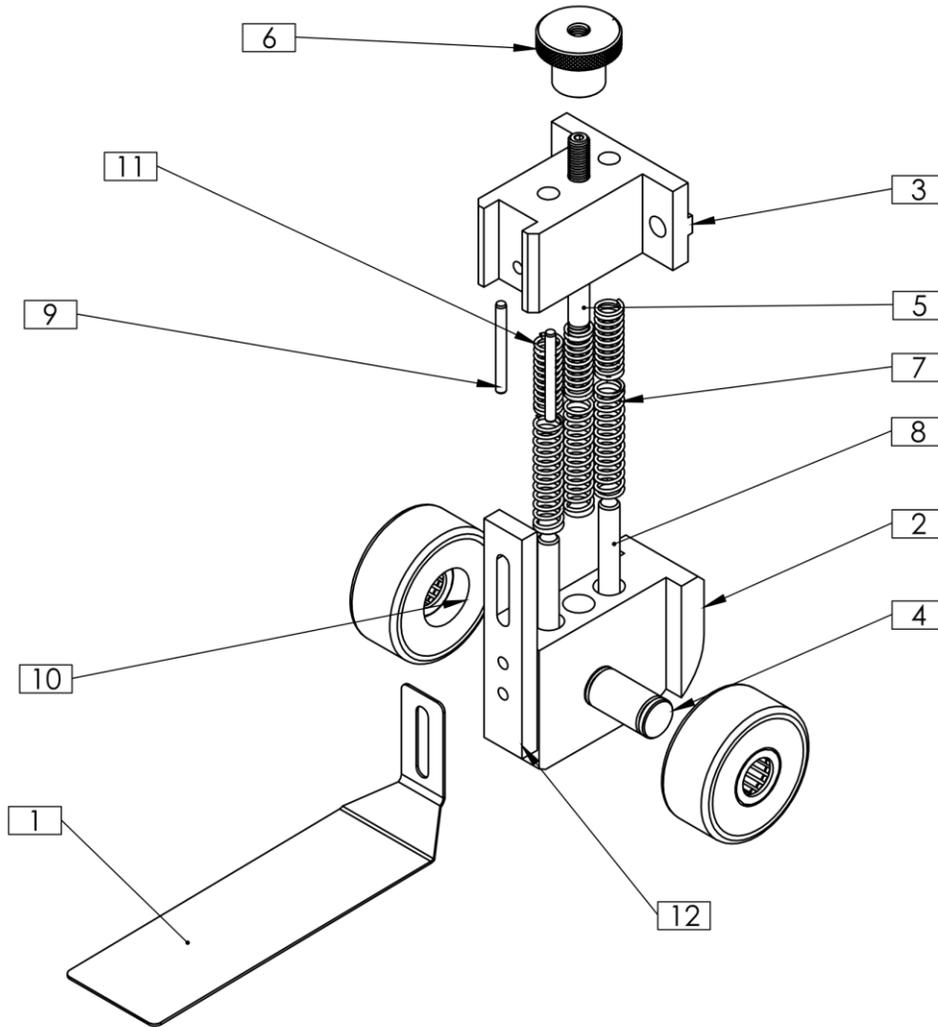
ITEM	PART	DESCRIPTION	QTY
1	302974	WEDGE PLATE	1
2	303330	WEDGE ADJUSTMENT BLOCK	1
3	350675	WEDGE NUB	1
4	350827	T-NUT	1
5	100354	LOCKING LEVER	2
6	HW	1/4 x 7/16 SPACER	2
7	HW	8-32 x .375 THUMBSCREW	1

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Assembly Number:
400693

SEPARATOR



ITEM	PART	DESCRIPTION	QTY
1	303325	DISCHARGE BAND HOLDOWN (STD)	1
2	303327	SEPARATOR ROLLER BLOCK	1
3	303328	SEPERATOR MOUNT	1
4	303329	SEPARATOR ROLLER SHAFT	1
5	350815	THREADED ROD	1
6	350818	KNURLED KNOB	1
7	350819	SPRING	3
8	350820	PIN	2
9	350821	PIN	2
10	100172D	SEPARATOR ROLLER	2
11	100687	SPRING	3
12	303489	DISCHARGE ADJ MOUNT	1

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Assembly Number:
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Schematic:

