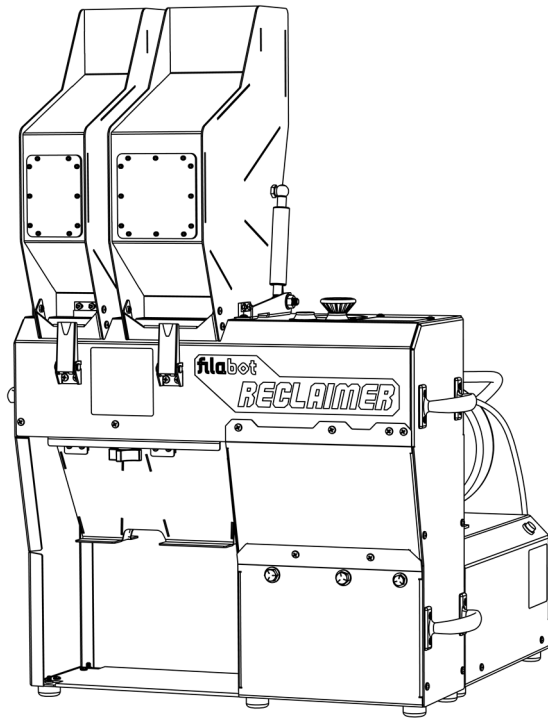

Filabot Reclaimer

Operation Manual



This manual applies to the Filabot Reclaimer.

Triex LLC, Barre, VT 05641, USA

CAUTION! Read Carefully

- **HEAVY** Fully assembled Reclaimer weighs 125lbs. DO NOT attempt to lift or assemble the Reclaimer alone.
- **SHARP ROTATING BLADES** Never operate the Reclaimer with out all hoppers closed and secured. Never operate the Reclaimer if any parts appear missing or damaged. NEVER ATTEMPT TO MODIFY OR BYPASS SAFETY SWITCHES OR CIRCUITRY.
- **SHARP PLASTIC SHRAPNEL** Crushing, cutting, or otherwise breaking down plastics such as PLA and others will create high speed projectiles and sharp edges. Always wear proper eyewear and gloves when working with the Reclaimer and processing plastic.
- **In Case of Emergency** hit the EMERGENCY STOP button or pull the power cord out of the machine.
- Only use the Reclaimer to process thermoplastic polymers. No other use has been tested or approved by Filabot.
- Always STOP the Reclaimer before opening the hoppers.
- The Reclaimer is designed for indoor use only. Operate in a clean, dry area.
- Check the AC input voltage specified on the S/N Label near the power inlet. Only use the specified input voltages to operate the Reclaimer or damage to the components will occur.
- Do not use this device if any parts appear missing or damaged.
- Do not modify this device without authorization from Filabot.

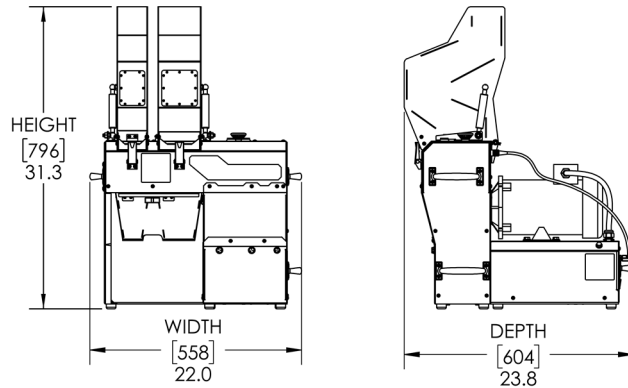
Contact Filabot with any questions
1-802-505-6772
contact@filabot.com

General Specifications

Power Input: 115VAC-10A or 230VAC-6.5A 50/60Hz 1-phase
1550W MAX - varies with settings
Input Connector Type: IEC 320-C14

Weight: 57kg (125 lbs)

Overall Dimensions:



Drive Control: 230V 3-phase Variable Frequency Drive
4.2A Motor Current Limit
Jam Detection and Automatic Reversing

Drive Motor: 1HP 230V 3.2A 3-phase
62Hz 1780 RPM
Inverter duty

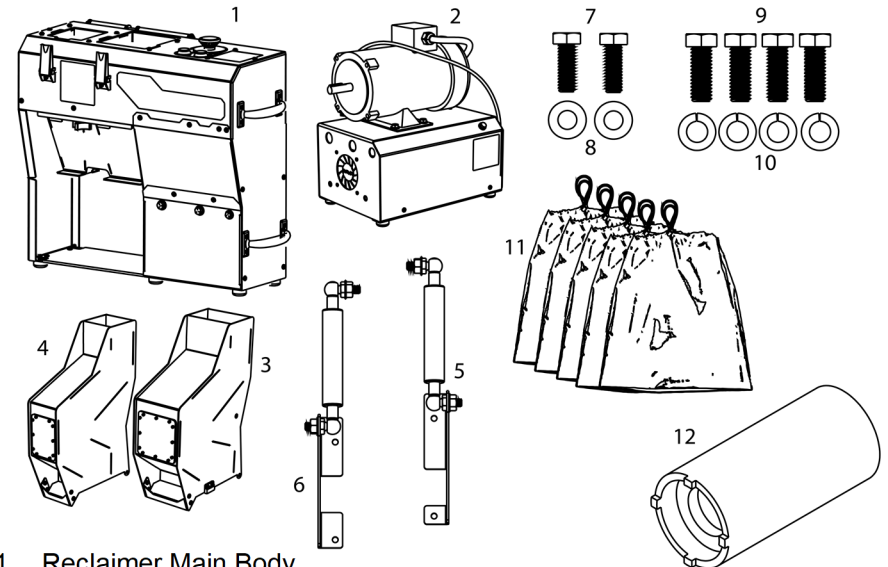
Final Drive: 20:1 Worm gearbox into
2.5:1 #50 roller chain

Final Drive Output: 35 RPM
216 ft-lbs (Calculated)

Shredder: Rotating Blades: 0.25" Wide A2 Hardened Steel
Fixed Blades: Reversible 0.50" 4140 Steel Plate

Granulator: Rotating Drum: 0.20" x 0.20" Cutting Teeth
17-4 SS Hardened
Fixed Blades: Reversible 0.50" 4140 Steel Plate

Parts Included



1. Reclaimer Main Body
2. Motor Base Assembly
3. Shredder Hopper
4. Granulator Hopper
5. Shredder Hopper Gas Spring Assembly
6. Granulator Hopper Gas Spring Assembly
7. (2) 5/16"-18 x 7/8" Hex Head Bolts
8. (2) 5/16" Washers
9. (4) 3/8"-16 x 1" Hex Head Bolts
10. (4) 3/8" Split Lock Washers
11. (20) Plastic Drawstring Bags 10" Wide, 14" High
12. Main Bearing Tool

Tools Required:

9/16" Wrench
1/2" Wrench
#2 Philips Screw Driver
Rigid table capable of supporting at least 200lbs

Call 1-802-505-6772 or visit Filabot.com for additional/replacement parts

Assembly

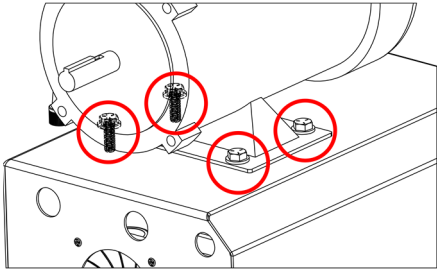
WARNING: Fully assembled Reclaimer weighs 125lbs. DO NOT attempt to lift or assemble the Reclaimer alone.

Two people are required to assemble the Reclaimer.

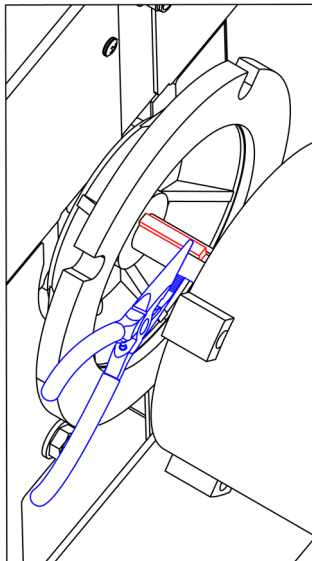
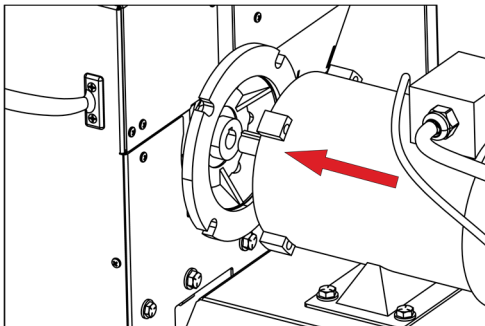
Assemble the Reclaimer on a rigid table capable of supporting at least 200lbs. If such a table is not available, assemble and operate the Reclaimer on the floor.

WARNING: The Reclaimer Main Body tips easily when not attached to the Motor Base Assembly. Someone must steady the Reclaimer Main Body while assembling it to the Motor Base Assembly.

1. Loosen the 4 motor base bolts using a 1/2" wrench. Do not remove the bolts.

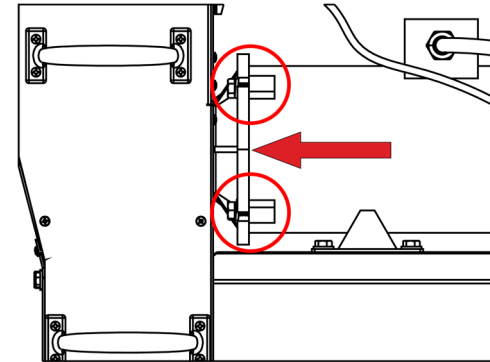


2. Line up the motor shaft with the gearbox input on the Reclaimer. Use a pair of pliers to hold the shaft key from sliding back while inserting the shaft. **Caution! Reclaimer can tip over easily. Have someone support the Reclaimer while attaching the motor.**

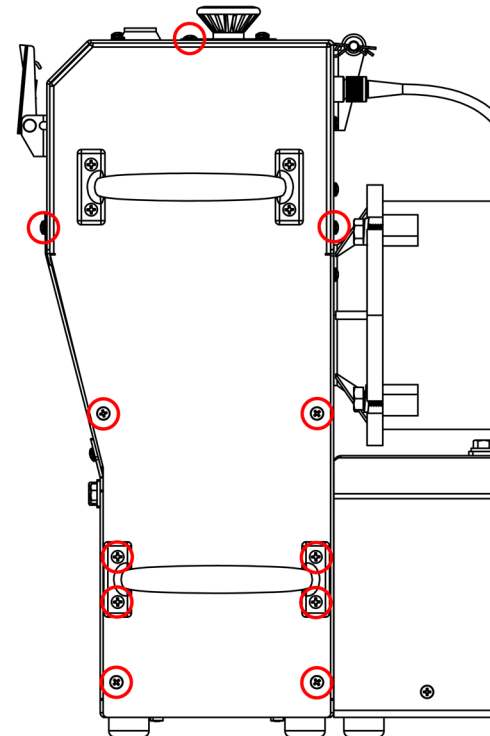


Assembly

3. Push the motor face flat against the gearbox face. Make sure there is not gap between the motor face and gearbox face. Install the (4) 3/8"-16 x 1" motor bolts with lock washers and tighten them using a 9/16" wrench.

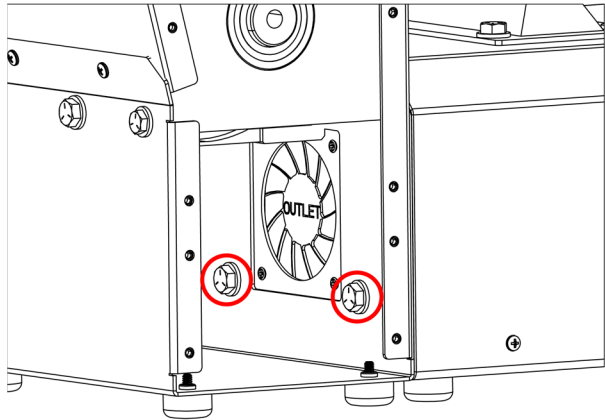


4. Remove the (7) highlighted panel screws and (4) handle screws with a #2 Philips screwdriver and remove the Reclaimer right side panel.

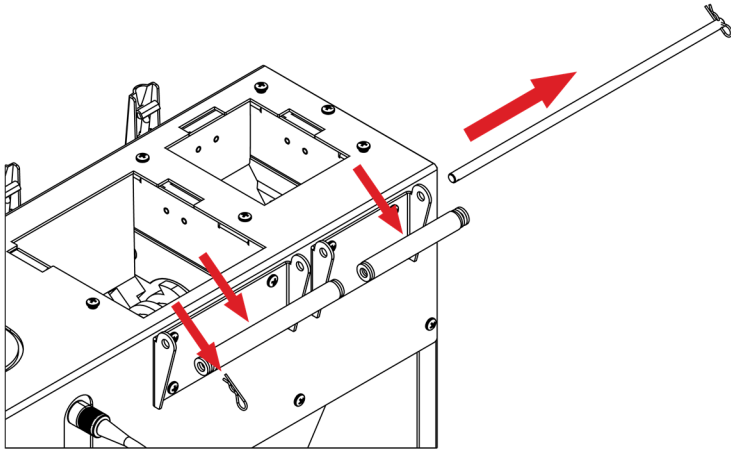


Assembly

5. Behind the Reclaimer side panel and below the gearbox, install the (2) 5/16"-18 x 7/8" lower drive enclosure bolts with washers and tighten using a 1/2" wrench. The motor base enclosure may need to be shifted under the motor to align the holes.

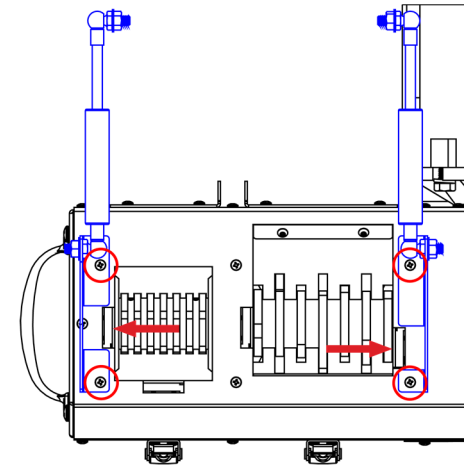


6. Reinstall the panel and (7) highlighted panel screws and (4) handle screws and handle which were removed in step 4.
7. Using a 1/2" wrench, tighten the (4) base bolts which were loosened in step 1.
8. Remove the inner cotter pin from the hopper hinge and slide out the rode while removing the aluminum spacers and plastic washers.

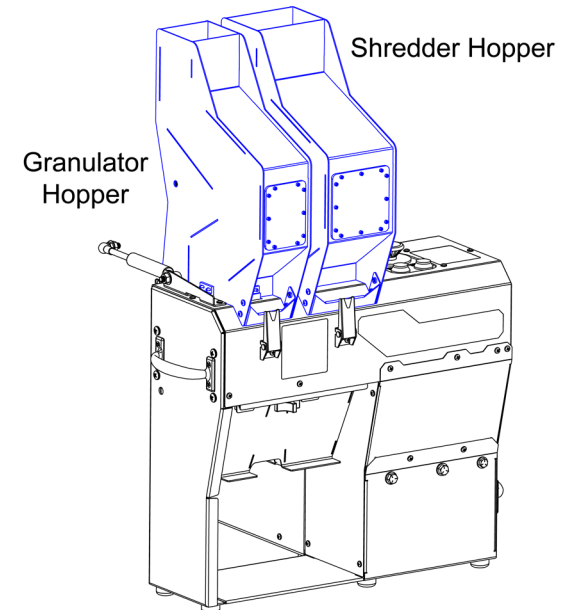


Assembly

9. Remove the (4) top panel screws using a #2 Philips screw driver. Line up the two gas spring assembly brackets with the holes in the top panel as shown and reinstall the screws. Be sure the square cutouts in the gas spring assembly brackets match with the sensor cutouts on the top panel.



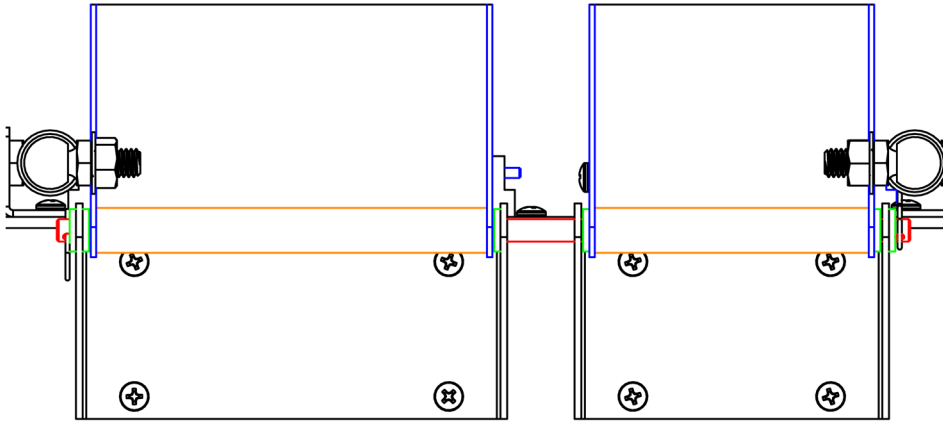
10. Set the hoppers on top of the Reclaimer in the orientation shown.



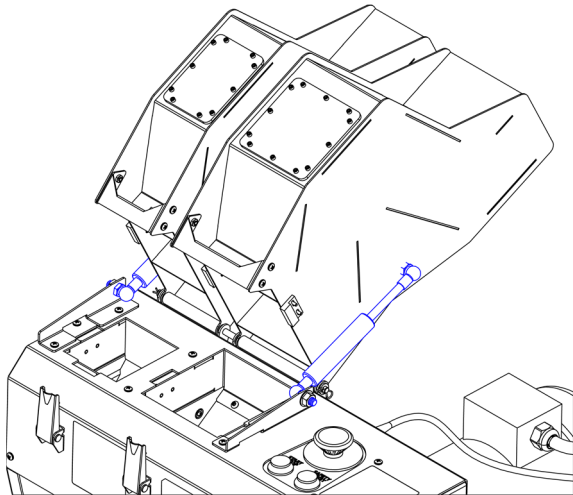
Assembly

11. Reinstall the hopper hinge rod, spacers, plastic washers and cotter pin in the order shown.

WASHER SPACER HOPPER HINGE ROD

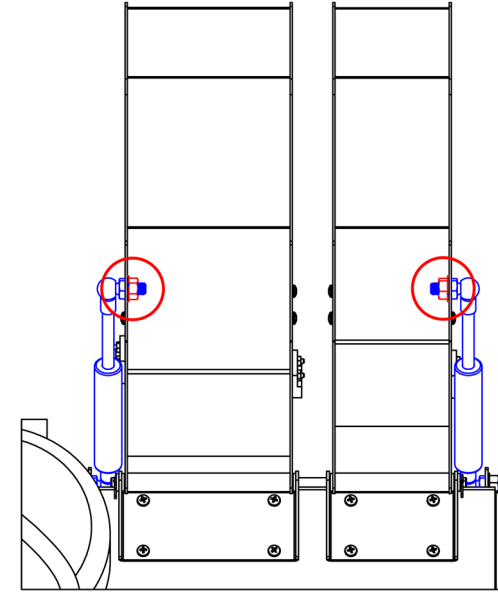


12. Remove the nuts from the end of the gas springs not attached to the bracket on the top panel. One at a time, tip each hopper back and insert the threaded stud on the end of the gas spring the nut was removed from into the hole midway up the back of the hopper.

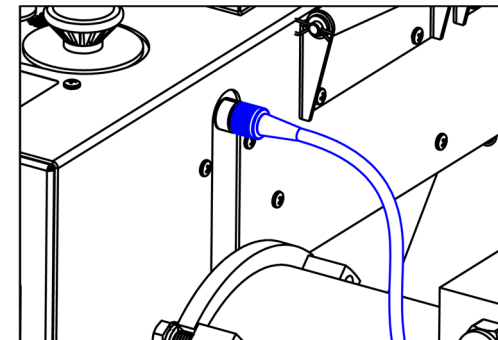


Assembly

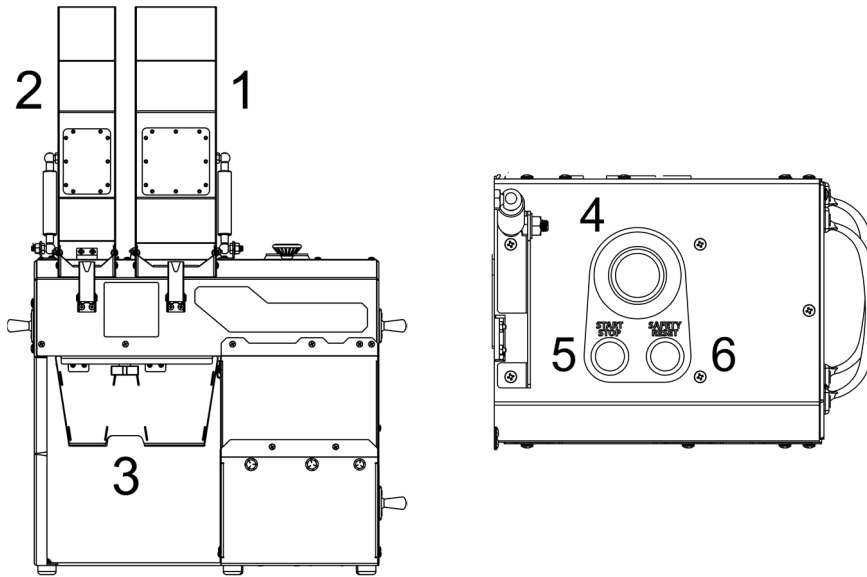
13. Reinstall the nuts on the gas spring studs on the inside of the hopper and tighten using a 1/2" wrench.



14. Plug the grey control cable from the back of the drive enclosure into the bulkhead located on the back of the Reclaimer above the motor and tighten the thumbnut to secure the connector. Make sure to align the notch in the connector with the bump on the inside of the bulkhead.

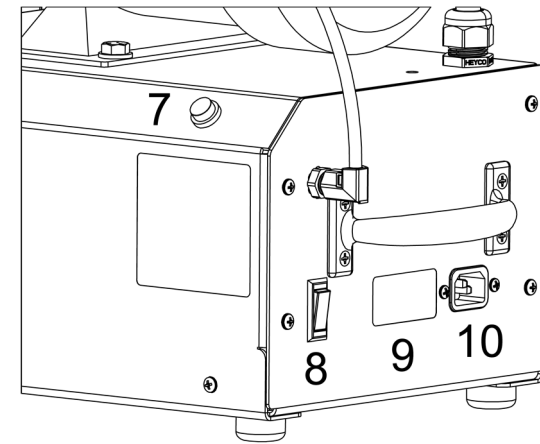


Controls & Inputs



1. Stage 1 Shredder Hopper – Max part size 3 inches in any dimension (must fit in 3" sphere).
2. Stage 2 Granulator Hopper – Max material size 1/2 inch.
3. Output hopper.
4. Emergency stop button – Press for emergency stopping only, use Start/Stop button for normal stopping.
5. Start and Stop button – Press to start the machine, press while running to stop the machine.
6. Safety Reset button – Press at initial power on or after the E-stop or hopper safety switches are tripped to reset the safety circuit.

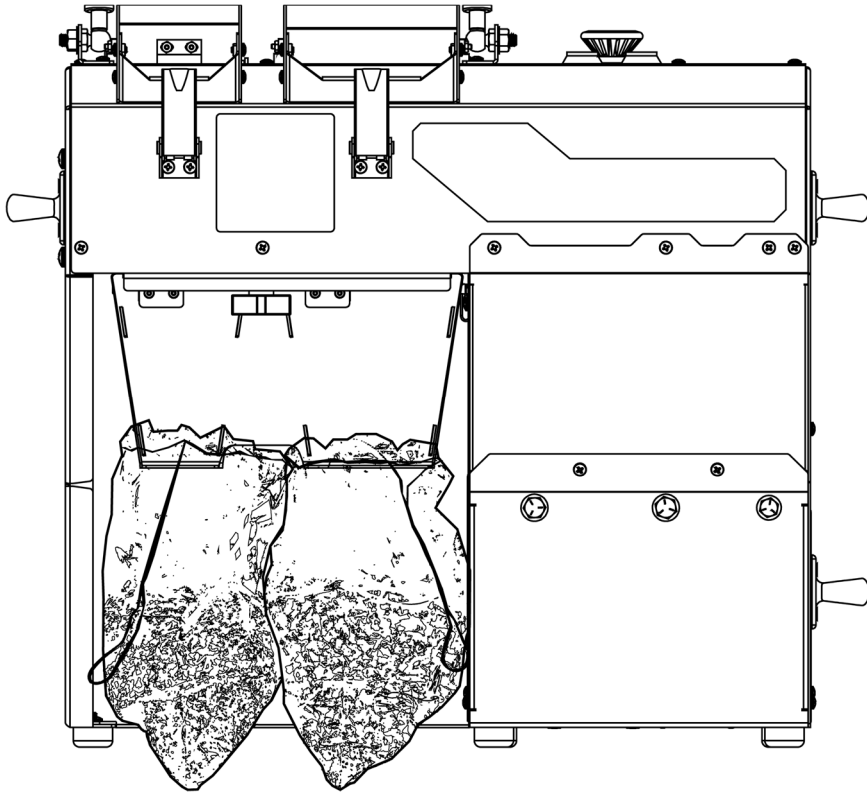
Controls & Inputs cont.



7. Drive status indicator LED. Output code:
 - Solid green** – Drive power on, ready to start
 - Flashing green** – Drive operating normally, motor is running
 - Solid red** – Safety trip (Safety switches or Emergency Stop)
 - Off** – No drive power (If Main Power is illuminated and indicator is off then safety circuit must be reset.)
 - Flashing red (code 8)** – (8 flashes followed by pause) Over current detection, check Reclaimer for jam. To reset over current detection, power off or hit Emergency stop and wait until indicator LED turns off before pushing the Safety Reset button.
8. Main power switch and main power indicator.
9. Serial Number & Voltage Input Label
10. Power inlet – IEC C14 110VAC

Operation

1. Make sure all 3 hoppers are fully closed and latched.
2. Secure the drawstring collection bags to the flanges on the bottom of the output hopper as shown:



3. Plug the power cable into the power inlet on the machine and into a 110VAC outlet.
4. Turn on the main power switch. It should illuminate if the machine has power.
5. Make sure the E-stop button is pulled up and push the Safety Reset button to power up the drive. The status indicator should illuminate green if the drive has powered on.
6. Press the Start/Stop button to start the machine.
7. To begin shredding, place parts with a maximum dimension of 3 inches in the top of the Shredder hopper. Do not fill the hopper past the bottom of the view

window to avoid feed issues in the hopper. During operation you may need to adjust the bags so they fill completely.

8. At anytime during shredding, or when the collection bag for the Shredder is full, the Shredder output can be loaded into the Granulator hopper. Press the Start/Stop button to stop the machine and transfer the output of the Shredder into the Granulator hopper.

NOTE: It is recommended to screen the output of the Shredder to remove material smaller than 1/4 inch before transferring it to the Granulator. This reduces over granulating of smaller material to help make sure final granule size is as consistent as possible.

9. Replace the drawstring bag on the Shredder output and press the Start/Stop button to begin granulating. If granulated material consistency is not satisfactory, it can be screened and run through the Granulator again.

NOTE: Material can be loaded into both hoppers while running allowing for simultaneous Shredding and Granulating.

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