

OPERATOR'S MANUAL

COMMERCIAL SELF-PROPELLED BROADCAST TOP DRESSER



ECO 250 S

ECO 250 G

RECORD YOUR ECOLAWN SERIAL NUMBER:



SCAN TO
ACTIVATE
YOUR WARRANTY

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2 WARRANTY

Ecolawn Applicator warrants its products to be free from defects in materials and workmanship for **one (1) year** from the date of registered purchase.

Proof of original purchase is required to validate this warranty.

From the registered purchase date, Ecolawn Applicator will replace, **at no cost**, any part of the unit—**excluding the engine**—that is deemed defective in material or workmanship by Ecolawn Applicator or an authorized agent, following inspection.

This warranty **does not apply** to any product that has been subjected to:

- Misuse or neglect
- Improper maintenance or installation
- Modification or use of unauthorized parts or attachments
- Accidents or improper application
- Unauthorized adjustments or repairs

Note: Engines, motors, and accessories not manufactured by Ecolawn Applicator are covered only by the warranties (if any) provided by their respective manufacturers. Ecolawn Applicator does not extend warranty coverage to these components.

2.1 Registration

To activate your warranty, register your Eco 250 Top Dresser online at:

<https://ecolawnapplicator.com/register-your-ecolawn/>



You can scan this QR code on the cover of the manual

2.2 Limitation of liability

Ecolawn Applicator's liability, whether arising from warranty, negligence, strict liability, or otherwise, is strictly limited to **replacement of defective parts**.

3 EC DECLARATION OF CONFORMITY



EU DECLARATION OF CONFORMITY

Declaration Ref. No.:	TF2362 – EU DoC 1.0
Manufacturer:	ECOLAWN APPLICATOR (name and address) 410, Boul. Poirier, Magog, Quebec. J1X 0A1. Canada.
EU Authorised Representative:	HERCO MACHINERY, Niels Van Dijck (name and address) Hermans Company bvba, Ambachtsweg 3, BE-2310 Rijkevorsel. Belgium.
Description of Equipment:	Self-propelled, i.e. engine powered, walk-behind, wheeled machine having an open body, to transport and spread materials.
Model / Type:	ECO250 / ECO250S / ECO250G
Serial No.:	250 1060
EU Directives:	Machinery Directive (2006/42/EC) Noise Emissions in the Environment Directive (2000/14/EC)
Notified Body:	2000/14/EC (Annex VI) - Státní zkušebna strojů a.s. (NB no. 1016) (name and address) Třanovského 622/11, 163 00 Praha 6
Harmonized Standards Applied:	EN ISO 12100 - Safety of machinery. General principles for design. Risk assessment and risk reduction ISO 3744 – Determination of sound power levels ISO 5349 – Measurement and evaluation of human exposure to hand-transmitted vibration.

Sound Levels – ISO 3744

Measured Sound Pressure dB (L _{PA})	Measured Sound Power dB (L _{WA})	Guaranteed Sound Power dB (L _{WA})
88	97	98

Vibration Levels – ISO 5349

	Measured value (m/s ²)
Hand/Arm	<2.5
Whole Body	Not applicable

Readings taken with engine at walking pace (3000rpm)

We hereby declare that this equipment fulfills all the relevant provisions of the Directives stated and National Laws and Regulations adopting these Directives.

Person empowered to draw up the declaration: Daniel Côté

Signature:

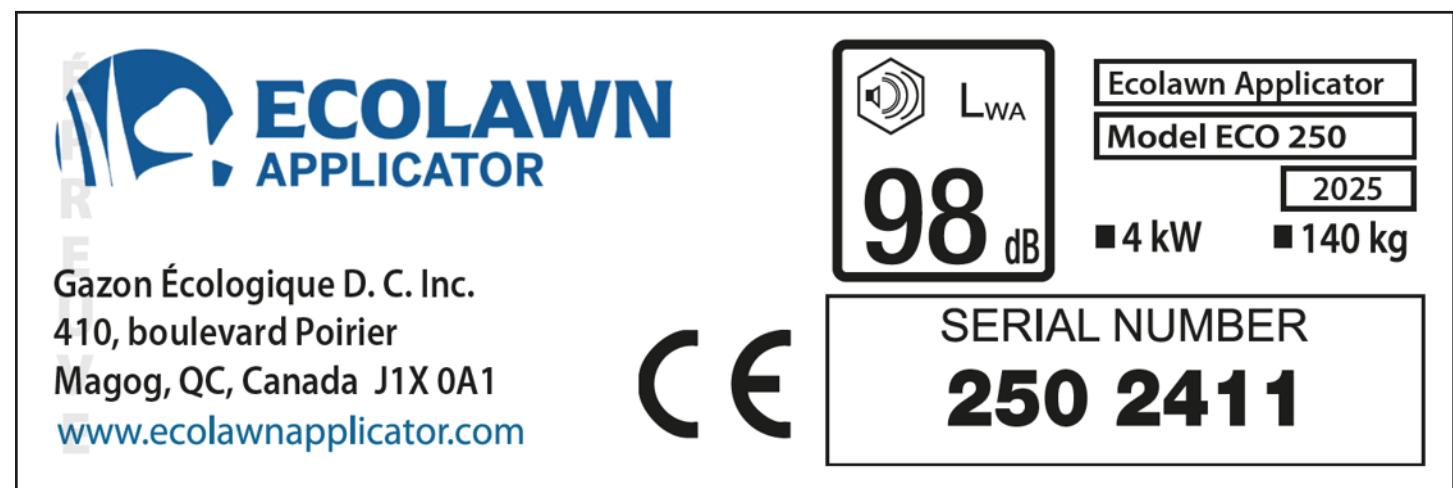
Position: President

Place of issue: Magog, Canada

Date: February 2024

Modifications to the equipment without prior approval will render this declaration null and void.

4 ECO 250 NAMEPLATE



5 SPECIFICATIONS

Length: 78 in. / 1.92 m.	Ground Speed: Up to 3.4 mph / 5.5 kph
Width: 34 in. / 0.86 m.	Discharge and Direction: Front and forwards.
Height: 40 in. / 1.01 m.	Empty Weight: 310 lbs / 140 kg
Hopper Capacity: 11.5 cu. ft. / 0.32 cu. m.	Application Thickness: Up to 1/4 in. / 6.35 mm
Hopper Weight Limit: 500 lbs. / 227 kg	Driven Wheel Tire Pressure: 24 psi / 165 kpa
*Spreading Width: 4-18 ft. / 1.2-5.4 m.	Caster Wheel Tire Pressure: 50 psi / 345 kpa

*Spreading width may vary depending on the density of substrate used.

6 UNIT DESCRIPTION

6.1 Intended Use

The Eco 250 Top Dresser is a walk-behind, motorized applicator designed for top dressing and land restoration of residential, institutional, and commercial lawns. It is intended to spread **light soil mixes, screened compost**, and other approved substrates.

The operator fills the **hopper** with the selected substrate and guides the unit over the area to be treated. The **ejection system** can be engaged or disengaged as needed during operation.

Key operational features:

- The unit propels forward when the operator maintains pressure on a **spring-loaded drive handle**.
- The spreading mechanism is only activated when the unit is in forward motion.
- The Eco 250 Top Dresser does not have a reverse gear and can only move forward under engine power.



IMPORTANT: Use the Eco 250 Top Dresser only for its intended purpose. Misuse may result in equipment damage or operator injury and will void the warranty.

6.2 System Composition

The Eco 250 Top Dresser is composed of the following main systems:

- Main Frame:**
A durable structure mounted on four wheels. The **front wheels** are powered via a **differential transmission**, while the **rear wheels** swivel, allowing smooth steering and maneuverability.

- Engine:**
Powers all mechanical systems. Engine specifications may vary; refer to the **Engine Operator's Manual** supplied with your unit.
- Hopper & Conveyor System:**
The hopper stores the substrate. A **conveyor belt** at the base of the hopper moves material toward the **ejection system** located at the front of the unit.
- Control System:**
Hand-operated controls manage the various functions of the unit. For detailed control information, see the **Controls** section 10.4 of this manual.
 - Control 1:** Engages/disengages the drive system—activates forward motion and spins the ejection disk.
 - Control 2:** Engages/disengages the ejection system—drives the conveyor and rotates the mixer inside the hopper.
 - Control 3:** Opens/closes the feed trap — allows material to drop from the hopper onto the ejection disk for spreading.
 - On/Off Switch:** Powers the engine on or off.
 - Throttle Control:** Adjusts engine RPM.
- Transmission & Drive Systems:**
Located beneath the frame, all drivetrain components are enclosed and protected for durability and performance.

7 SAFETY INSTRUCTIONS

7.1 Before Operating

Read and fully understand this Operator's Manual before operating the Eco 250 Top Dresser. A replacement manual is available for free at the Ecolawn Applicator website:

<https://www.ecolawnapplicator.com/support/owners-manual-parts-list/>

Throughout this manual, the following safety labels are used:

- WARNING:** Indicates a hazard that could result in serious injury, property damage, or death.
- CAUTION:** Indicates a hazard that could result in minor injury or property damage.
- NOTE:** Provides important information regarding the operation or service of the Eco 250 Top Dresser.

Always follow all safety instructions—your safety depends on it.

7.2 Operators

WARNING: Never allow children or untrained individuals to operate the Eco 250 Top Dresser. Only properly trained individuals who have read and understood this manual should operate the unit. The operator is solely responsible for safe use.

7.3 Intended driving surfaces

The Eco 250 Top Dresser is intended for use on grass, sports fields, and paved surfaces in residential or park areas.

WARNING: This unit is not intended for use on streets or roadways with vehicle traffic. Doing so may result in serious injury or death.

7.4 Influence

WARNING: Never operate the Eco 250 Top Dresser when under the influence of drugs or alcohol.

7.5 Guards

WARNING: Keep all shields, guards, and safety devices in place. Do not operate the unit if any guard is missing or damaged. Replace or repair guards before use.

7.6 Modifications

Do not modify or alter the Eco 250 Top Dresser. Ecolawn Applicator does not guarantee the function, quality, or safety of modified units. Unauthorized modifications void the warranty. Always use OEM parts for replacements or repairs.

7.7 Safe attire

WARNING: Long pants and safety footwear are required when operating the unit. Avoid loose clothing that may get caught in moving parts. Wearing safety glasses, hearing protection, and a dust mask is recommended—some substrates may pose a respiratory hazard.

7.8 Safety stickers

The following sticker is applied on the Eco 250 Top Dresser. If the sticker is missing, or illegible, replace it prior to operating the Eco 250 Top Dresser. The part number is listed below the image.



Fig 7.8. – P/N: X-0053

7.9 Pictograms



Figure 7.9-1: Wear breathing protection

Figure 7.9-2: Bystanders stay clear, projectile

Figure 7.9-3: Do not operate with guards removed

Figure 7.9-4: Read the instructions

Figure 7.9-5: Wear eye protection

Figure 7.9-6: Wear ear protection

7.10 Inspection

Inspect the Eco 250 Top Dresser before each use. Refer to Section 11.2 for detailed inspection procedures.

7.11 Vibrations

CAUTION: Prolonged exposure to vibration from the engine may cause long-term injury. Avoid extended use without breaks.

7.12 Engine Safety

WARNING: Do not run the engine in confined or enclosed spaces—exhaust fumes are hazardous and can be fatal.

CAUTION: The exhaust system becomes hot during operation. A label near the exhaust warns: “Hot muffler can burn you. Stay away if engine has been running.”

See Figure 7.12-1.

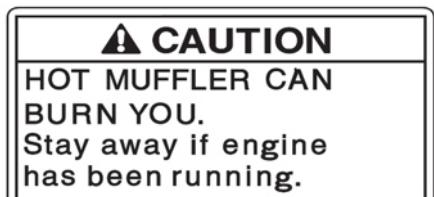


Figure 7.12-1

A hot surface warning logo is printed on the metal exhaust cover.

See Figure 7.12-2.



Figure 7.12-2

WARNING: A fuel tank label warns of explosion risk when refueling.

See Figure 7.12-3.

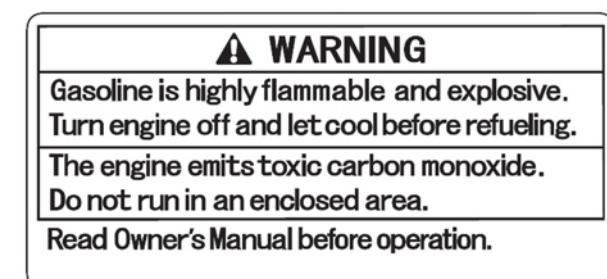


Figure 7.12-3

7 SAFETY INSTRUCTIONS

7.13 Hazard Areas

WARNING:

- Do not stand in front of the unit during operation.
- Crush hazards exist at all times during use.
- Projectiles may be thrown during spreading.
- All moving parts can cause injury or entrapment.

7.14 Hopper

WARNING: Never allow any person in the hopper for any reason—it could result in serious injury or death.

WARNING: Never reach into the hopper while the unit is operating.

NOTE: Do not modify the mixer shaft or its controls.

CAUTION: Do not exceed a maximum load of 500 lbs (227 kg). Overloading may damage the unit.

7.15 Passengers

WARNING: Do not carry passengers. The Eco 250 Top Dresser is not designed to transport people and doing so could cause injury or equipment damage.

7.16 Operating on slopes

WARNING: Do not operate on hills or slopes—there is a risk of tipping, which could result in injury or death.

NOTE:

- If slope operation is necessary, do not exceed a 10° incline.
- Always drive directly up or down the slope; never drive sideways.
- The Eco 250 Top Dresser is not equipped with emergency brakes—use extreme caution and good judgment when operating on inclines.

7.17 Substrate

CAUTION:

- Use only screened substrate free of rocks or debris, which could become dangerous projectiles or damage the unit.
- Some substrates may be hazardous to breathe; use a mask when appropriate.

7.18 Loading

WARNING: Keep clear of the unit when loading substrate with mechanical equipment.

The engine must be turned off before loading material into the hopper.

7.19 Transporting the unit

Engage the brakes on both caster wheels and secure the unit using the four designated tie-down/lift points—two at the rear and two at the front of the frame. See Figure 7.19-1 and 7.19-2.

Turn the fuel valve on the engine to the OFF position (See engine manual).

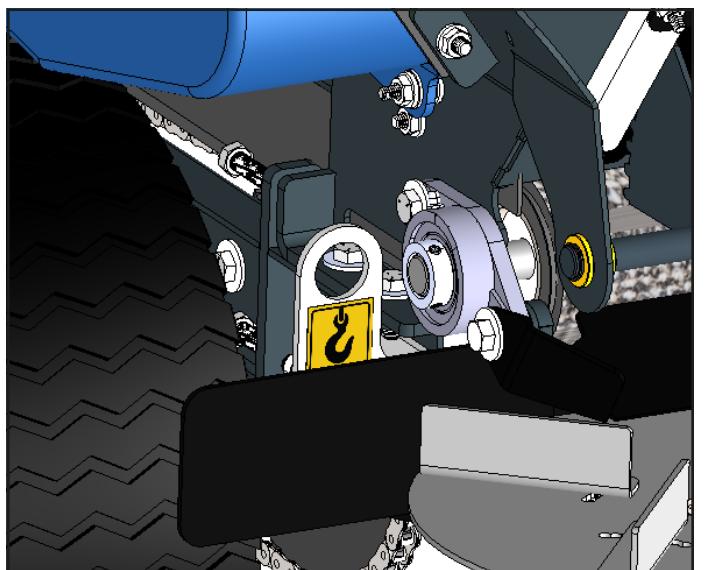


Figure 7.19-1



Figure 7.19-2

A sticker at each tie-down point indicates proper lift/secure locations.

See Figure 7.19-3.

Do not lift or secure the unit by any other part.



Figure 7.19-3, P/N: X-0666

7.20 Drive safety

CAUTION: The drive system does **not** need to be engaged to start the engine. Starting the unit with the drive engaged may cause injury or property damage.

8 GENERAL INFORMATION

8.1 Labeling and terminology

Record the Eco 250 Top Dresser's serial number on the cover page of this manual for easy reference when contacting a dealer or distributor for service or replacement parts.

NOTE: The terms "right" and "left" refer to the operator's perspective while standing at the steering column at the rear of the unit during operation.

Use only **Original Equipment Manufacturer (OEM)** parts for all repairs and replacements. **Failure to do so will void the warranty.**

Do not modify, misuse, or neglect the Eco 250 Top Dresser.

Any unauthorized modification or improper use will void the warranty.

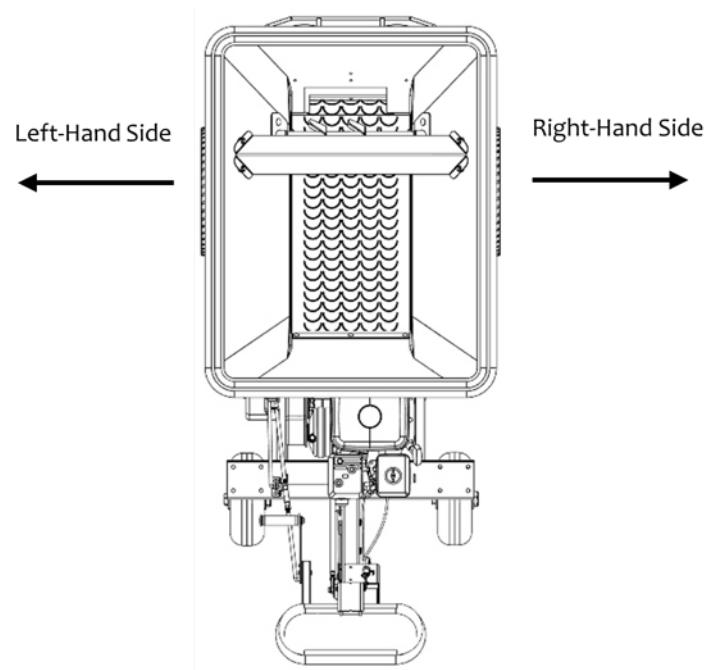


Figure 8.1

8.2 Maintenance and repair

Only perform maintenance or repairs if you are properly trained and qualified. For any major maintenance or repair needs, contact your local Ecolawn dealer.

WARNING: Always turn off the engine before performing any maintenance or repairs.

CAUTION: The hopper must be unloaded prior to any maintenance or service work.

NOTE: Proper maintenance is essential to the performance and longevity of the Eco 250 Top Dresser. Perform adjustments promptly to prevent premature wear or failure. Damage resulting from misuse or neglect may void the warranty if deemed so by an authorized Ecolawn representative.

Keep the Eco 250 Top Dresser clean and free from excess substrate buildup. Fine materials can compromise seals and bearings, leading to damage over time.

Always use **Original Equipment Manufacturer (OEM)** parts for all repairs and replacements.

Using non-OEM parts may compromise the integrity, safety, and performance of the unit. **Use of non-OEM parts will void the warranty.**

Contact your local Ecolawn dealer for all replacement parts and service inquiries.

9 ASSEMBLY

STEP 1 Prepare the unit

- Uncrate the Eco 250 Top Dresser.
- Carefully remove the unit from the pallet.
- Support the unit securely on **jack stands** before proceeding with assembly.

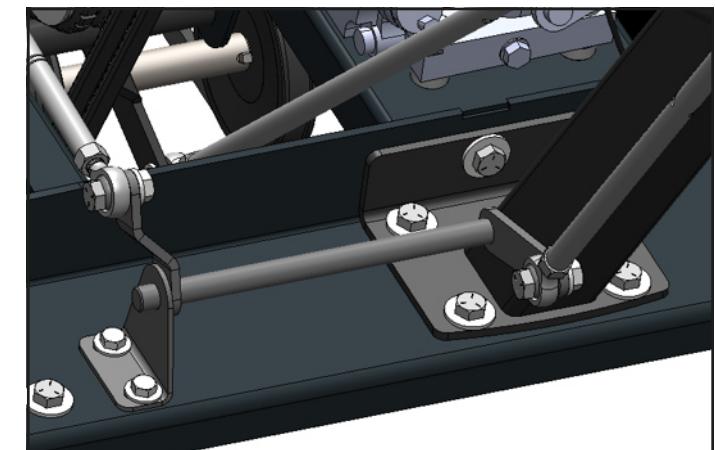


Figure 9.3

STEP 2 Install the Driven Wheels

- Mount the **driven wheels** onto the differential shaft.

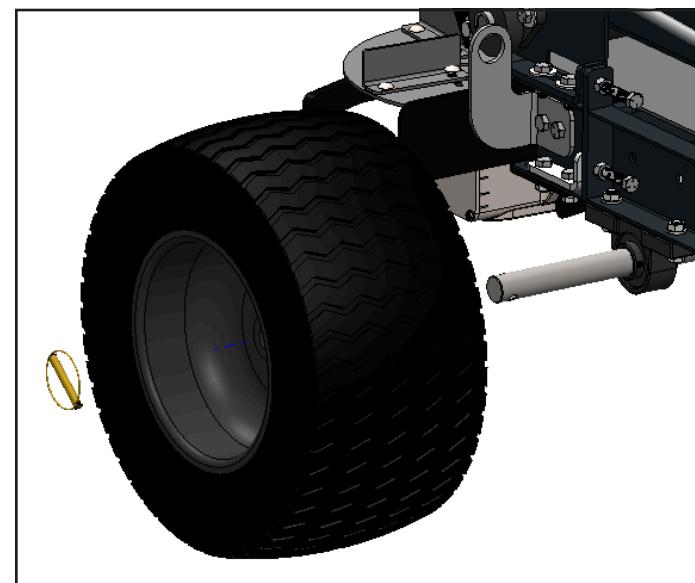


Figure 9.2

STEP 4 Install the Swivel Wheels

- Attach the rear swivel wheels to the frame.

STEP 5 Connect Control 1 (Drive Engagement)

- Attach the **Control 1 adjustment rod** to the **drive tensioner mechanism**.

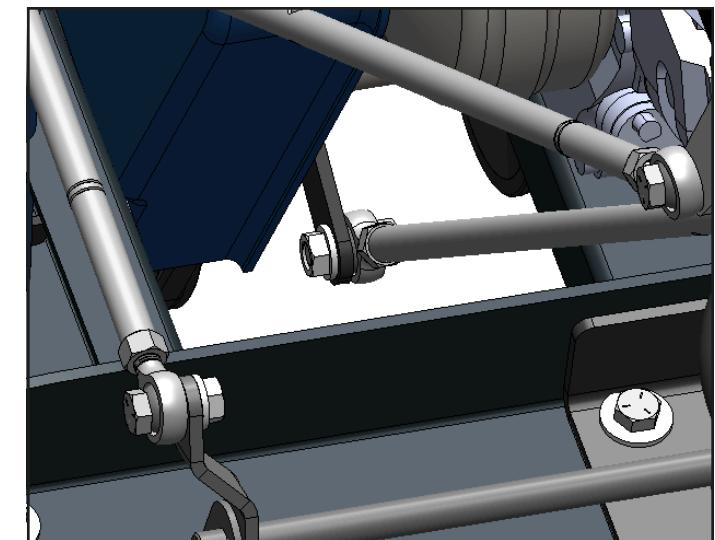


Figure 9.5

STEP 3 Install the Steering Column

- Install the **steering column** onto the frame.
- Ensure that the **trap lever pivot** is properly positioned **between the column and the support bracket**. See Figure 9.3.

9 ASSEMBLY

STEP 6 Connect Control 2 (Conveyor Drive Tensioner)

- Attach the Control 2 adjustment rod to the drive-to-conveyor tensioner.
- ⚠ Ensure the spacer is correctly placed between the arm and the rod end.

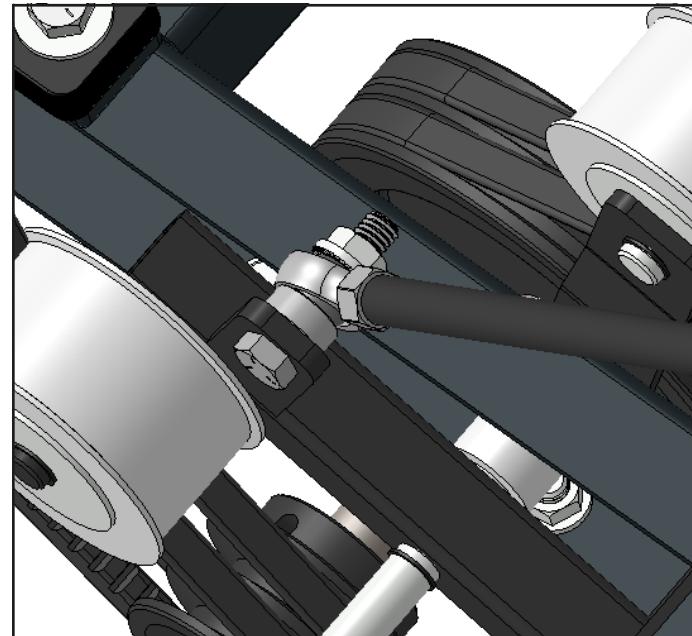


Figure 9.6

STEP 7 Connect Control 3 (Feed Trap)

- Attach the Control 3 rod to the feed trap adjustment rod.

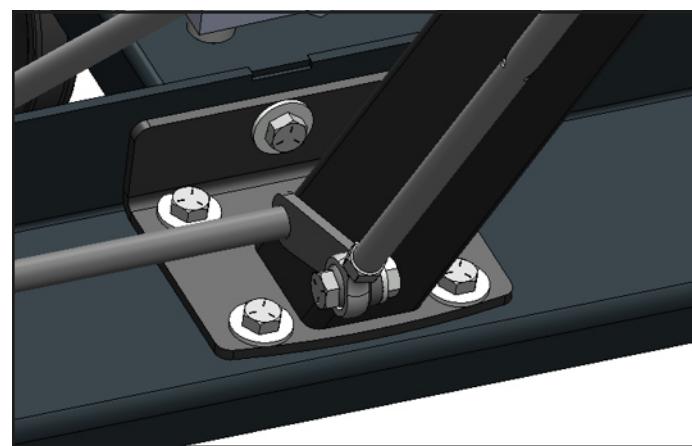


Figure 9.7

STEP 8 Install the Throttle Cable

- Connect the throttle control cable to the engine throttle arm.

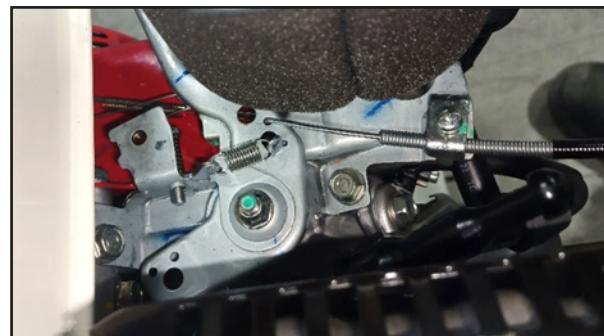


Figure 9.8

STEP 9 Connect the On/Off Switch

- Attach the wire from the engine On/Off switch to the designated terminal on the engine.



Figure 9.9

STEP 10 Add Engine Oil

- Add the appropriate type and quantity of engine oil before starting the unit.
- Refer to the engine manual for detailed oil specifications and fill instructions.

10 OPERATION INSTRUCTIONS

10.1 Before Operating

Before each use, carefully inspect the Eco 250 Top Dresser to ensure all components are in good condition and functioning properly.

Confirm that the unit is safe for operation prior to use.

10.2 First Use

For optimal performance and proper break-in, follow these procedures during the first use:

- Fill the engine with oil.
- Add fuel to the engine.
- Allow the engine to idle for a few minutes.
- Run the unit empty for a few minutes to allow the v-belts to seat into the pulleys.
- Test the unit with 1/3 of the hopper's capacity. Repeat this 3 times to confirm proper operation.
- While running the unit with substrate, test the various controls (refer to sections 10.4 to 10.9).
- The conveyor belt may need slight adjustments during the first 5 hours of use as it settles.
- Minor adjustments to the controls may be necessary (see section 11.3).

10.3 Engine

Before operating the Eco 250 Top Dresser, ensure the oil level is correct in both the engine and the gear reducer.

Verify that the engine has sufficient fuel.

WARNING: Never operate the engine in an enclosed space. Exhaust fumes can be toxic and may result in serious injury or death.

NOTE: Review the engine's Operator's Manual, which is provided with the Eco 250 Top Dresser, before use.

10.4 Controls



Figure 10.4

10.4.1 Starting the unit

To start the unit:

- Turn the engine switch located on the right-hand side of the steering column to the ON position (See figure 10.4.1).

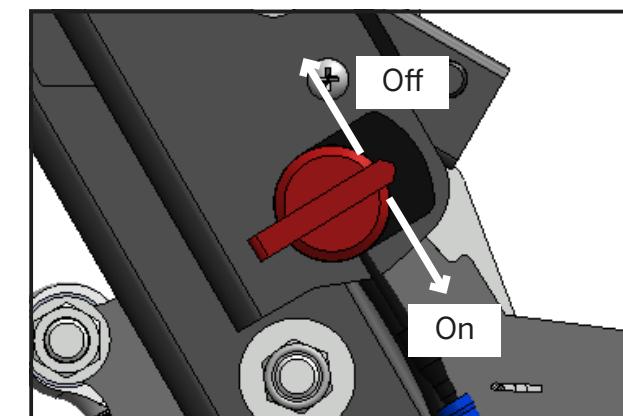


Figure 10.4.1

- Turn the fuel valve to the ON position.
- Move the choke lever to the CLOSED position.
- NOTE:** Do not use the choke if the engine is warm.
- Move the throttle control lever to half throttle.
- Pull the starter grip lightly until resistance is felt, then pull briskly.

10 OPERATION INSTRUCTIONS

10.4.2 Speed Control

The Eco 250 Top Dresser has a maximum speed of 3 mph (4.5 kph).

The maximum speed can be adjusted by modifying the engine's rpm via the throttle control.

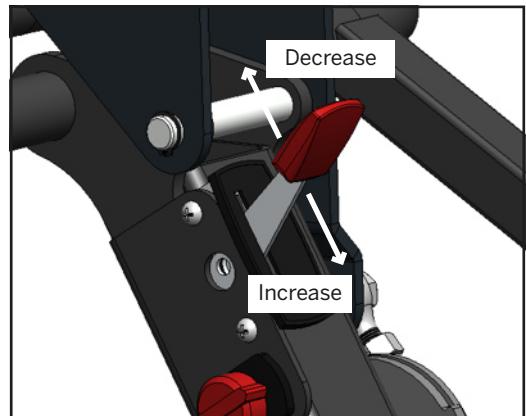


Figure 10.4.2

10.4.3 Control 1 (Drive Engagement)

Control 1 engages or disengages the drive system. When engaged, it activates the disk and engages the differential to propel the unit forward.



Figure 10.4.3

WARNING: Always operate the Eco 250 Top Dresser at a speed that is comfortable and manageable. Be cautious of potential hazards that may cause injury or damage.

CAUTION: Keep a firm hold on the steering column at all times when operating the unit.

10.4.4 Control 2 (Conveyor and Agitator)

Control 2 engages the conveyor belt and agitator. Engage this control along with Control 1 to activate the conveyor belt and begin spreading substrate.

NOTE: Only engage this control when ready to begin applying top dressing substrate.

NOTE: Do not operate the unit in reverse with Control 2 engaged, as this may damage the conveyor belt and cause substrate to become lodged in the hopper.

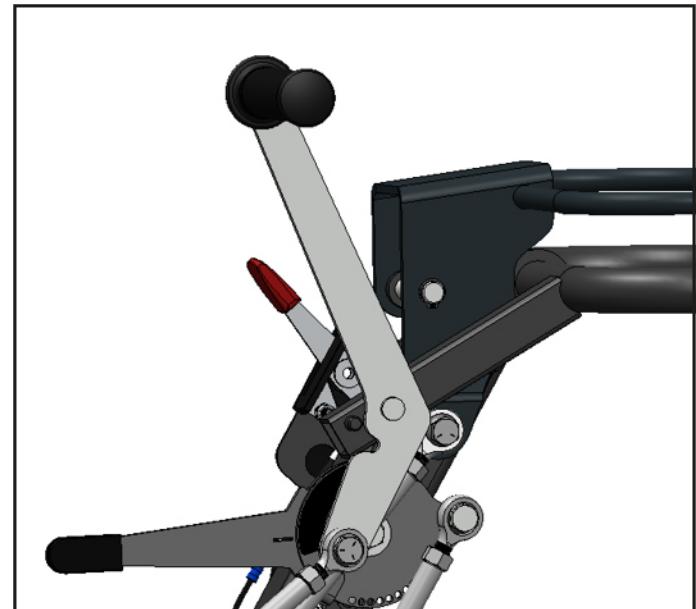


Figure 10.4.4

10.4.5 Control 3 (Feed Trap)

Control 3 opens and closes the feed trap, which regulates the flow of substrate from the hopper onto the ejection disk.

NOTE: Ensure that the feed trap remains closed when not in use to prevent spillage and uneven application. (See figure 10.4.5)

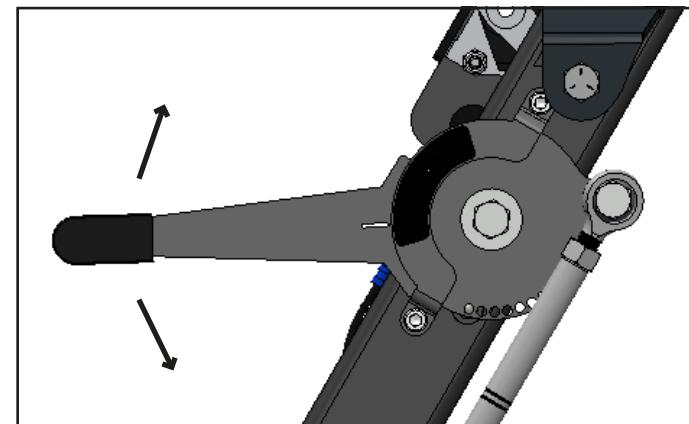


Figure 10.4.5

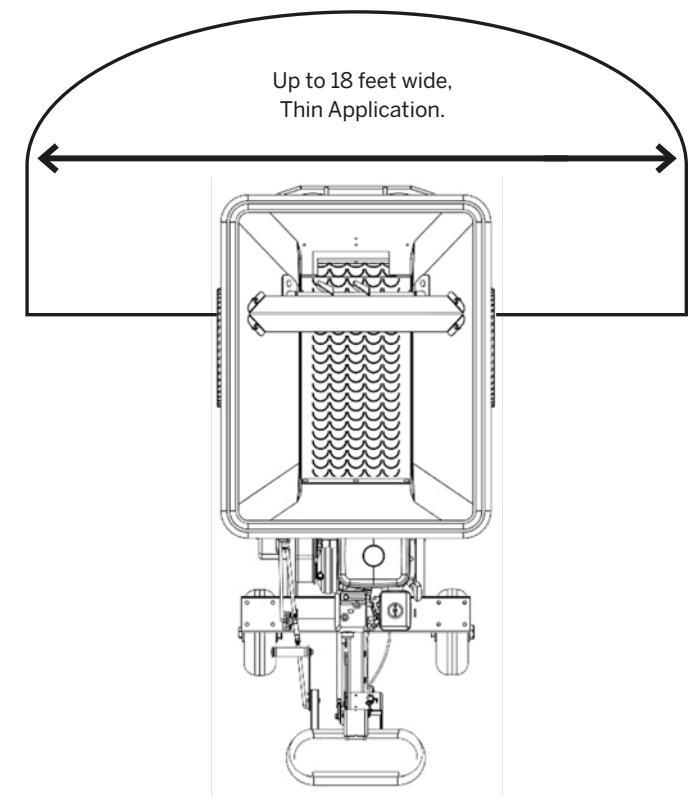


Figure 10.5.1

Lighter substrates may spread farther than heavier ones.

Adjusting the vehicle speed will also adjust the spreading width. Refer to figures 10.5.1 and 10.5.2 for guidance on spreading patterns at different speeds.

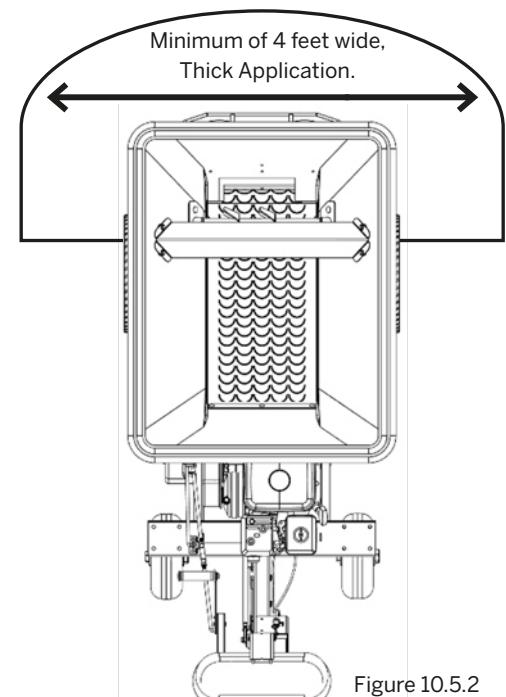


Figure 10.5.2

10.5 Application Adjustment

WARNING: Do not exceed the maximum speed of 3 mph (4.5 kph).

CAUTION: Do not modify the engine's settings to exceed the factory default speed or rpm limits.

NOTE: The thickness of the application may vary depending on the type of substrate being used.

10 OPERATION INSTRUCTIONS

10.6 Spreading Operation

Once your Eco 250 Top Dresser is inspected and loaded, follow these steps for the spreading operation:

• Engine Off Before Loading

Always ensure the engine is turned off before loading the hopper. If using dumping equipment, keep a safe distance and do not stand near the unit while it is being loaded.

• Avoid Overloading the Hopper

The hopper has a maximum weight limit of 500 lbs (227 kg). Be mindful of the weight of the material, especially if it's wet, as it may cause the conveyor belt to slip or wear down faster.

• Proper Filling

Never fill the hopper to the brim. Overloading can damage the Eco 250 Top Dresser. Check section 5 for the specific hopper weight limit.

• Start from the Furthest Point

When spreading, begin at the furthest point from the substrate source. This avoids driving over areas you've already treated and ensures an even application.

• Adjust Spread Width and Thickness

Use the available controls to adjust the spread width and thickness based on the type of material and your desired coverage.

• Drive Safely

Always operate the unit at a comfortable speed. Drive safely around obstacles such as trees, ponds, and slopes.

WARNING: Never operate the unit on slopes or hills, as these can be dangerous.

• Never Stand in Front of the Unit

WARNING: Never allow anyone to stand in front of the unit while spreading substrate to avoid injury from projectiles.

• Keep the Feed Trap Closed

Note: Keep the feed trap closed when not ready to spread to prevent spillage or uneven application.

• If Material Gets Stuck

WARNING: If substrate collects under the disks, stop the engine, disengage all controls, and clean the unit by hand. Caution: Never touch the moving disks during operation to avoid serious injury.

11 MAINTENANCE

11.1 Before Maintenance

WARNING: Always turn off the engine, empty the hopper, and chock the caster wheels before performing any maintenance or adjustments. Failure to follow these steps can result in injury or death.

WARNING: Exercise caution when lifting the Eco 250 Top Dresser onto jack stands to avoid injury. Do not stay under the unit longer than necessary.

CAUTION: Never use wood or cinder blocks to support the unit. Always use proper support equipment to prevent injury and damage to the Top Dresser.

CAUTION: Always chock both the driving wheels and the caster wheels when performing maintenance that doesn't require lifting. If you are unsure about your ability to perform maintenance safely, take the unit to your local dealer.

11.2 Inspection

Regular inspections are key to keeping your Eco 250 Top Dresser in top condition. Perform the following checks before each use:

1. Verify engine oil levels and gas in the tank (refer to engine manual).
2. Inspect tires for low inflation or cracks.
3. Test the controls to ensure proper function (see section 11.7 for adjustments).
4. Keep an eye on the conveyor belt, especially during the first 5 hours of use, when it may require more maintenance.
5. Check the hopper for debris (rocks, branches, plastic, etc.) that could obstruct function.

11.3 Lubrification Schedule

- Bearings (8x) – Every 40 hours of use
- Casters (2x) – Seasonal
- Engine Oil – Refer to engine manual
- Chain – Every 40 hours of use
- Wheel/Differential Axle – Seasonal
Apply anti-seize to axle shaft.
- (See Figure 11.3 for axle details.)

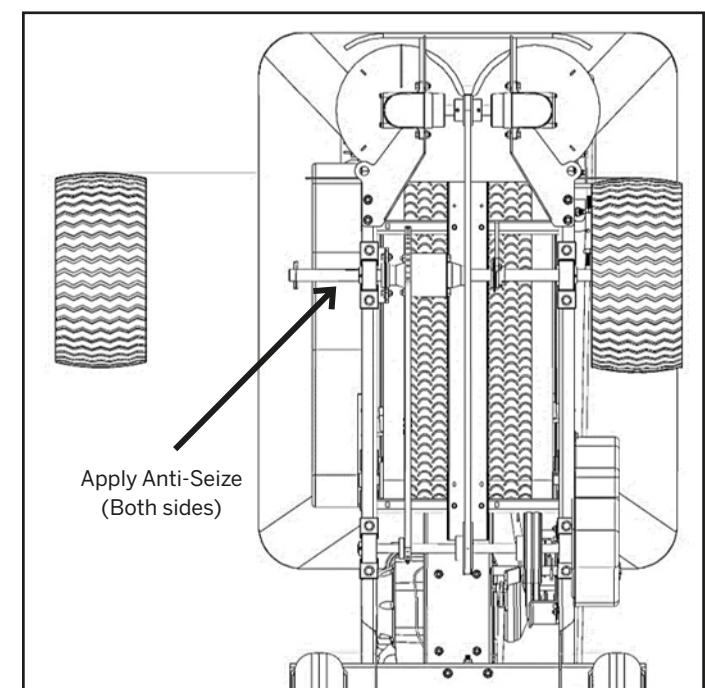


Figure 11.3

11.4 Cleaning Method

Regular cleaning is essential to maintain functionality and prevent substrate buildup in places where it shouldn't be. Always clean the Eco 250 Top Dresser after every use to ensure its proper functioning. Neglecting to do so may void the warranty.

11 MAINTENANCE

11.5 Tools

To perform maintenance, ensure you have the following tools:

- Jack
- Jack Stands
- 9/16" Wrench
- 1/2" Wrench
- 7/16" Ratchet
- Wheel Chocks

11.6 Supporting The Unit

WARNING: Always use caster wheel chocks when lifting and supporting the unit.

WARNING: Lift and support the unit only on a flat surface.



Figure 11.6

WARNING: Only lift the unit from under the frame.

11.7 Adjustments

11.7.1 Conveyor belt adjustment

WARNING: Never place your hand on the conveyor belt while the engine is running. Serious injury may occur.

NOTE: Improper tensioning can cause the conveyor belt to slip.

To adjust the conveyor belt tension:

1. Support the unit on jack stands and remove the wheels.
2. Loosen bolts #1 and #2 on both sides.
3. Using bolt #3, adjust the belt tension evenly on both sides.

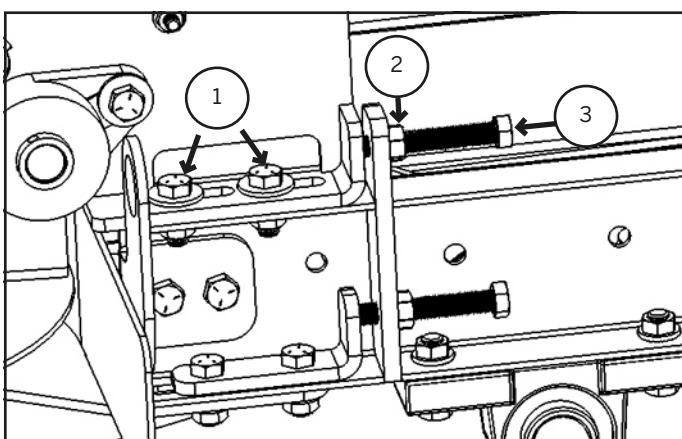
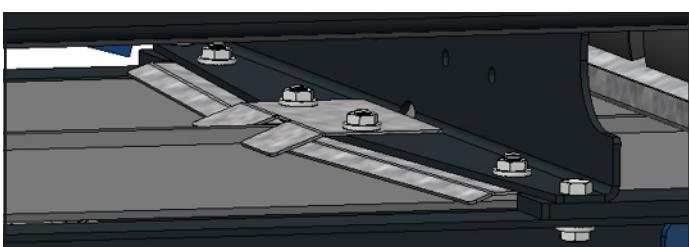


Figure 11.7.1

4. Press down on the conveyor belt with light to medium pressure at the scraping blade. The belt should sink approximately 3/16" (see Figure 11.7.1-2).



5. Once proper tension is set, tighten bolts #1 and #2 on both sides.

6. Start the engine and adjust tracking by turning bolt #3 on the left side. Ensure the belt stays centered in the V-groove (see Fig. 11.7.1-3 & 11.7.1.4).

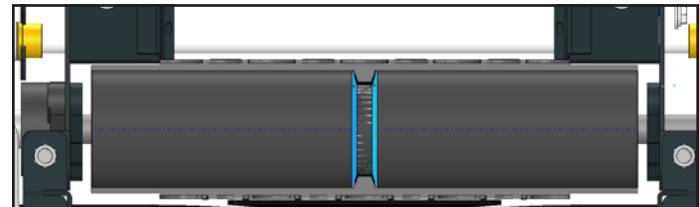


Figure 11.7.1-3

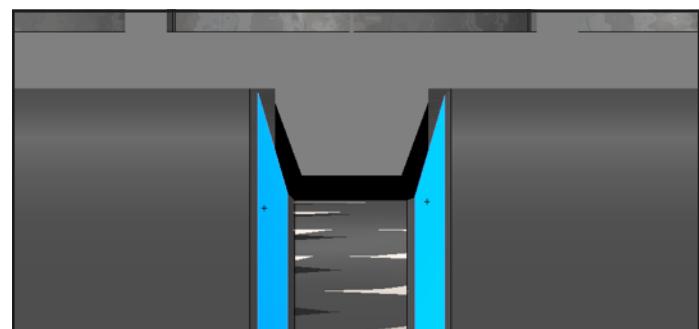


Figure 11.7.1-4

7. Retighten bolt #1 on the left side.

After adjustments, test the conveyor with 1/3 hopper capacity to ensure proper performance.

WARNING: Never place your hand on the conveyor belt while the engine is running.

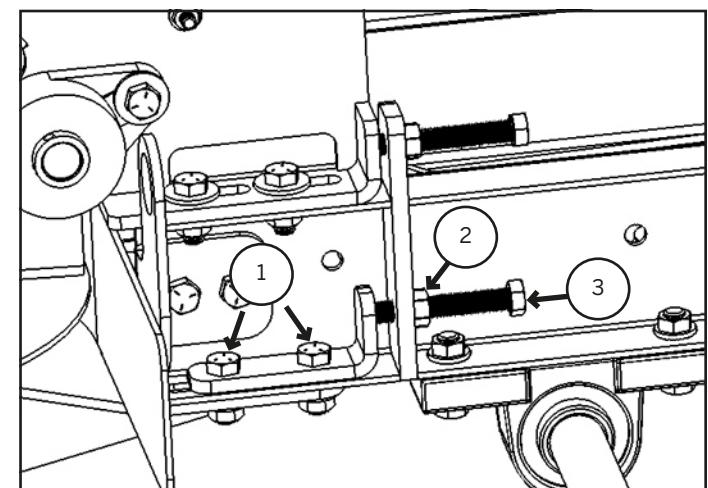


Figure 11.7.2

11.7.3 Drive Adjustment

CAUTION: Over-tightening can cause the unit to crawl when the engine is running or jam the wheels when the engine is off.

1. Loosen the jam nuts at each end of the rod (one has a left-hand thread).
2. Adjust the rod to modify tension.
3. Retighten the jam nuts.

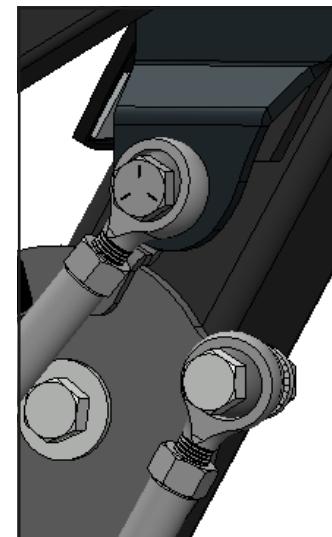


Figure 11.7.3-1

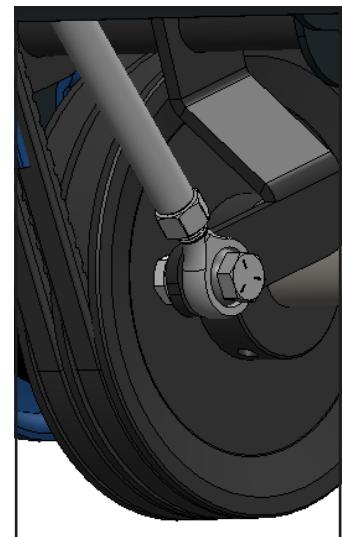


Figure 11.7.3-2

11.7.2 Disc Support Adjustment

NOTE: If the disks are not spinning or if the spread is uneven, this adjustment is necessary.

1. Support the unit on jack stands and remove the wheels.
2. Loosen bolts #1 and #2 on both sides. (Figure 11.7.2)
3. Adjust tension with bolt #3.
4. Ensure equal tension on both sides.
5. Retighten bolts #1 and #2.

11 MAINTENANCE

11.7.4 Feed Trap Adjustment

1. Loosen the jam nuts at each end of the rod (one has a left-hand thread).
2. Adjust the rod to modify tension.
3. Retighten the jam nuts.

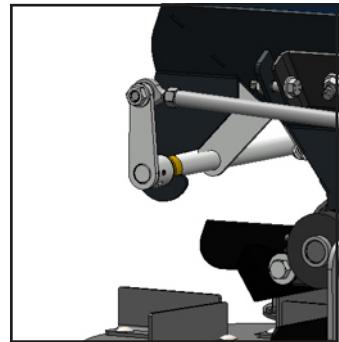


Figure 11.7.4-1

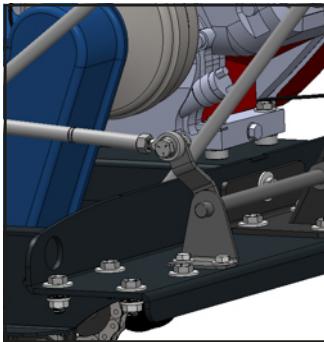


Figure 11.7.4-2

11.7.5 Mixer Adjustment

NOTE: Adjusting the mixer belt may or may not be necessary after conveyor belt adjustments.

NOTE: The factory default is a twisted belt to help break down clumped substrate.

1. Remove the guard.
2. Loosen bolt #1 by a few turns.
3. Adjust using bolt #2, ensuring both sides match.
4. Retighten bolt #1.
5. Reinstall the guard.

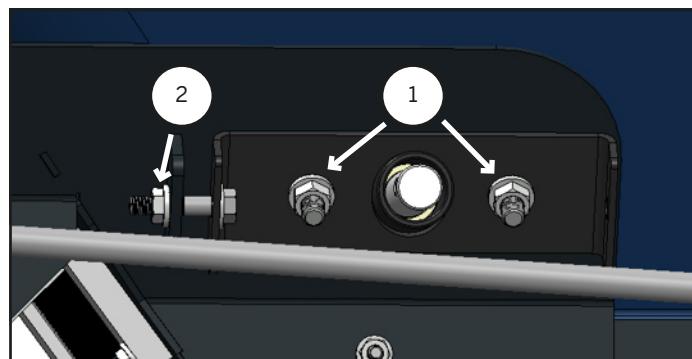


Figure 11.7.5

11.7.6 Conveyor Drive Adjustment

NOTE: This adjustment affects the conveyor belt engagement, not its tension.

1. Loosen the jam nuts at each end of the rod (one has a left-hand thread).
2. Adjust the rod to modify tension.
3. Retighten the jam nuts.

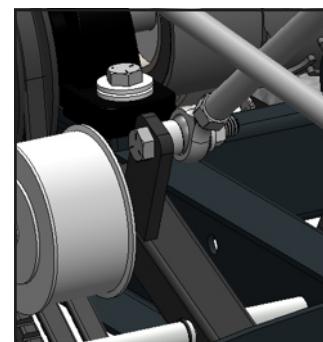


Figure 11.7.6-1

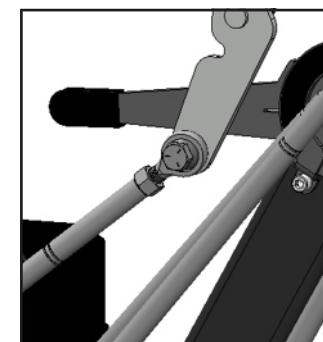


Figure 11.7.6-2

11.8 Storage

Before storing the Eco 250 Top Dresser, complete all maintenance tasks, including lubrication. This prevents parts from corroding, galling, or seizing during the off-season. When removing the unit from storage, inspect adjustments, as fluctuating temperatures may affect them.

For long-term storage, consider loosening adjustments to prevent belts from stretching due to time or temperature variations.

12 TROUBLESHOOTING

12.1 Conveyor Belt

PROBLEM	SOLUTION
Conveyor tracks from side to side / Bump in center of conveyor.	<ul style="list-style-type: none"> • Adjust conveyor (Section 11.7.6).
Belt slips when substrate in hopper	<ul style="list-style-type: none"> • Too much weight. • Adjust conveyor tension.

12.2 Unit Creeps Forward

PROBLEM	SOLUTION
Wheels lock, engine turned off	<ul style="list-style-type: none"> • Make sure blue engine guard is installed. • Verify drive engagement (control 1) rod adjustment.
Unit runs away when engine on	<ul style="list-style-type: none"> • Solutions above apply. • Verify interior of blue engine guard, if damaged, replace it. • Verify engine v-belts condition, if too worn they may sit too deeply in the pulley's grooves and must be replaced. • Verify that proper length and model V-belts are used.

12.3 Other

PROBLEM	SOLUTION
Disks won't turn	<ul style="list-style-type: none"> • Verify disk support adjustment (Section 11.7.2). • Something stuck in disks. • V-belt might be worn.
Only one disk turns	<ul style="list-style-type: none"> • Verify gearbox assembly. <ul style="list-style-type: none"> o Key might be missing from shaft/pulley. o Pulley might not be tight on both gearboxes. • Gearbox may need replacement
Conveyor belt does not engage, roller does not move	<ul style="list-style-type: none"> • Adjust conveyor and agitator (control 2) rod tension. • Replace V-belts

12 TROUBLESHOOTING

12.3 Other

PROBLEM	SOLUTION
Mixer doesn't turn.	<ul style="list-style-type: none"> Check for debris Verify if adjustment matches on both sides Adjust mixer tension Replace mixer v-belt Verify mixer shafts and bushings for wear.
Engine turned on, machine will not drive.	<ul style="list-style-type: none"> Adjust drive engagement (control 1) rod tension. Verify chain/sprockets, may be loose/damaged Verify differential and differential bearings. Replace drive engagement V-belts
Substrate spills and collects on ground	<ul style="list-style-type: none"> Make sure feed trap is closed when not in operation. Inspect hopper seals to conveyor for damage Adjust feed trap (control 3) rod length, when closed there should be no gap between feed trap and conveyor Verify if disks spin properly

13 REPLACING THE CONVEYOR BELT

⚠ WARNING:

- Never operate the engine in confined spaces –carbon monoxide can cause injury or death.
- Do not perform maintenance or repairs with substrate in the hopper.

Before beginning, support the unit on jack stands and remove the wheels.

13.3 Uninstall the Hopper Assembly

- Remove the flaps.
- Remove the mixer support brackets.
- Remove the 3 screws over the feed trap.

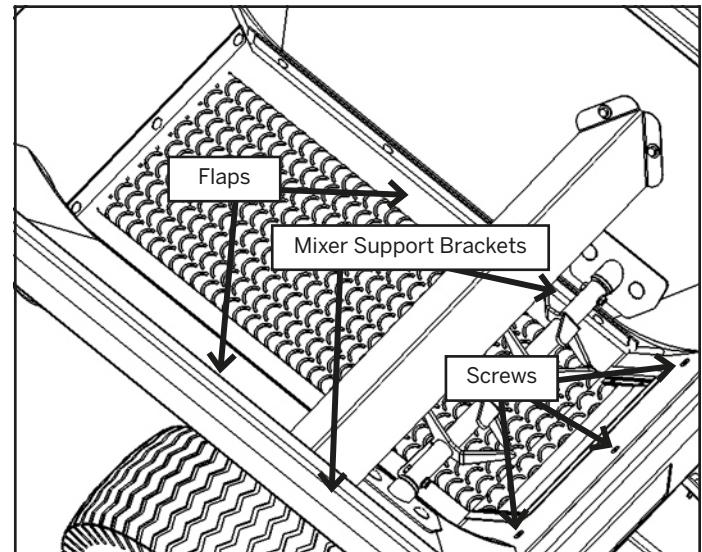


Figure 13.3

13.1 Procedure Overview

Follow these steps in order:

1. Uninstall the mixer assembly
2. Uninstall the hopper assembly
3. Uninstall the rollers
4. Replace the belt
5. Reinstall the rollers
6. Reinstall the hopper
7. Reinstall the mixer assembly
8. Adjust the conveyor belt

13.2 Uninstall the Mixer Assembly

- Remove the mixer guard.

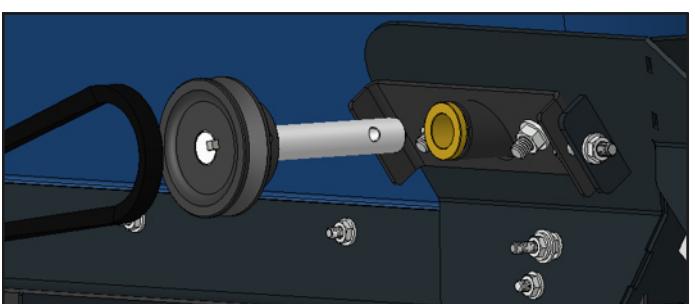


Figure 13.2

- Remove the shafts from both sides of the mixer tube.

13.4 Uninstall the rollers

- Remove the scraping blade from the frame.
- Remove the tension guard.
- Remove the Drive to Conveyor v-belts.
- Remove the drive roller.
- Remove the flange bearings.
- Remove the front roller.

13 REPLACING THE CONVEYOR BELT

13.5 Replace the conveyor belt

- Remove the bolts from the plate to the feed mechanism support. (Fig 13.4)

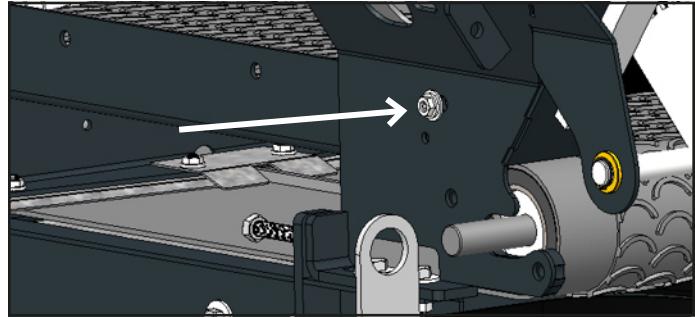


Figure 13.4

- Change the conveyor belt.
- Reinstall the plate onto the feed mechanism support.

13.6 Install the rollers

13.6.1 Front Roller Installation

- Install the front roller (Fig 13.6.1-1)



Figure 13.6.1-1

- Center the roller in the assembly and tighten flange bearing set screws.

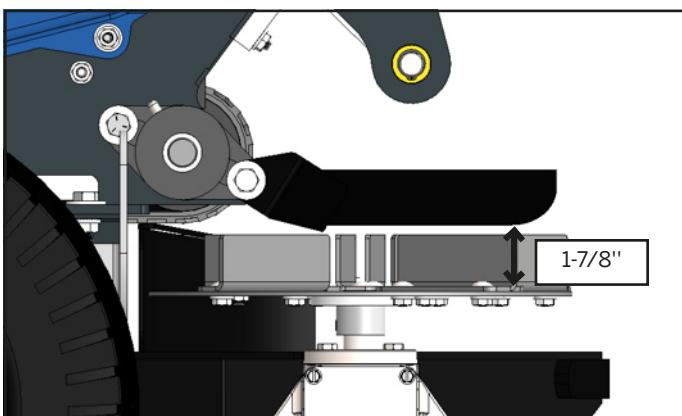


Figure 13.6.1-3

- Slide flange bearings onto each shaft. Ensure grease fittings will be accessible after reassembly.
- Install all four bolts but do not tighten.
- Wedge a pry bar between the conveyor and feed support mechanism, then tighten the top bolts first. (Fig. 13.6.1-2)
 - Eco 250 gap: 3/16" between feed support and conveyor
 - Eco 250-S gap: 1/16" (See Eco 250-S section)



Figure 13.6.1-2

- Install the from nose deflector so it sits 1-7/8" from the disk (Fig 13.6.1.3).

13.6.2 Drive Roller Installation

- Install the drive roller.
- Mount pillow block bearings at the edge of the welded support to ensure that the roller is square to the frame (Fig 13.6.2).

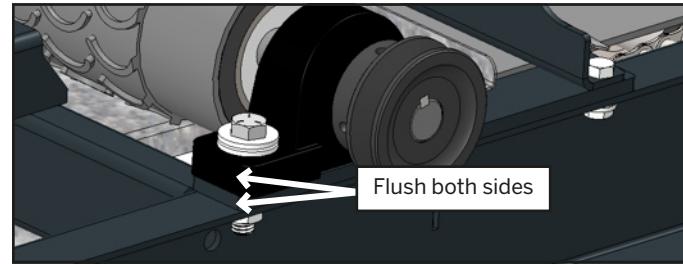


Figure 13.6.2

13.7 Install the Scrapers

- Install the conveyor scraper assembly.
 - Ensure it's centered on the belt and not in contact with the belt guide.
- Install the drive roller scraper:
 - Mount between two washers using the pillow block bolts.
 - Maintain a very small gap (1/32") between the roller and scraper.
 - Confirm it is centered with the V-groove and not touching the roller.

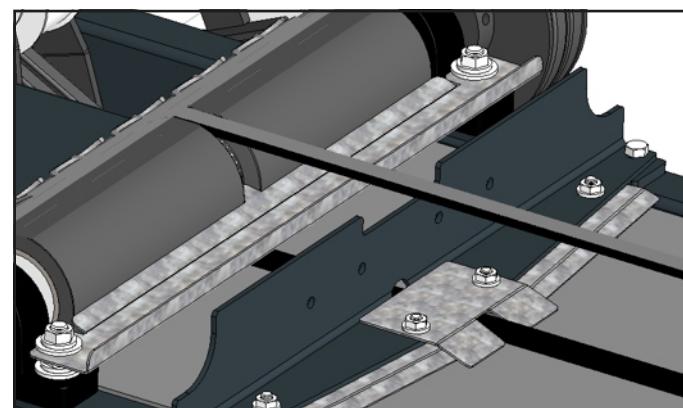


Figure 13.7

13.8 Reinstall the hopper

- Install the 3 front bolts.
- Install the mixer supports, leaving slack for the mixer V-belt.
- Install the side flaps:
 - Use the two longer carriage bolts on the **right-hand side** (front-most and rear-most holes).
 - These bolts are used to reattach the mixer guard later.

13.9 Reinstall the mixer assembly

- Install the shafts (pulley-side shaft goes on the right).
- Install the mixer belt.
- Adjust the mixer tension (see **Mixer Adjustment**, Section 11.7.5).
- Reinstall the mixer guard.

13.10 Adjust the conveyor belt

See **Section 11.7.1 – Conveyor Belt Adjustment** for full instructions.

14 ECO 250 SAND VARIANT

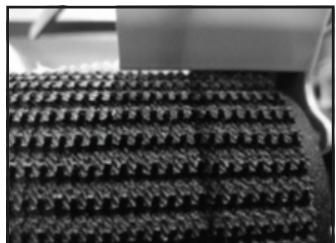
The Eco 250-S Top Dresser is a variant of the standard Eco 250 model, designed specifically for spreading sand and other fine materials. The primary differences between the Eco 250-S and the standard Eco 250 are:

- A **rough-top conveyor belt**
- Additional **weight deflectors**

14.1 Rough-Top Conveyor Belt

The Eco 250-S uses a **rough-top conveyor belt**, which is better suited for fine materials such as sand.

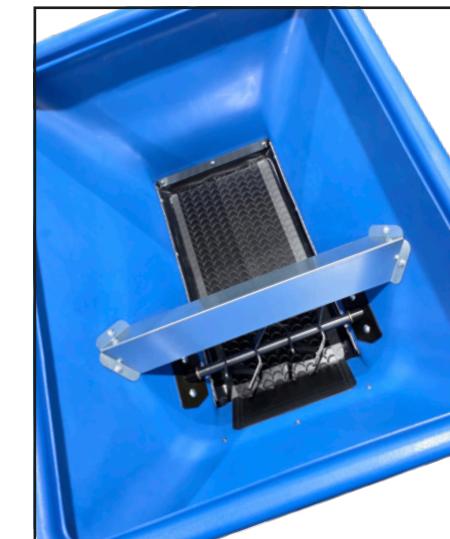
- Its smaller pores and thicker surface reduce leakage and improve material movement.
- While optimized for sand, it is also effective for compost and other fine substrates.
- This belt improves handling of lightweight, loose materials by providing better traction and flow control.



Rough Top Guided Conveyor
P/N: C-0110



Crescent Top Guided Conveyor
P/N: C-0109



Eco 250 Top Dresser

14.2 Weight Deflector

The extra weight deflector helps in keeping the weight of finer substrates off the conveyor belt, to ensure smooth movement.



Eco 250-S Top Dresser

14.2 Adjustable spinners Vanes

Both models are equipped with **adjustable spinner discs** featuring flat vane spinners as standard. The Eco 250-S includes **optional scooped vanes** for improved control when spreading fine materials.

Installing Scooped Vanes:

- Note the orientation of the scoops:
 - One scoop is designed for **Clockwise (CW)** rotation
 - The other for **Counter-Clockwise (CCW)** rotation
- Ensure correct placement based on the rotation direction of each spinner.

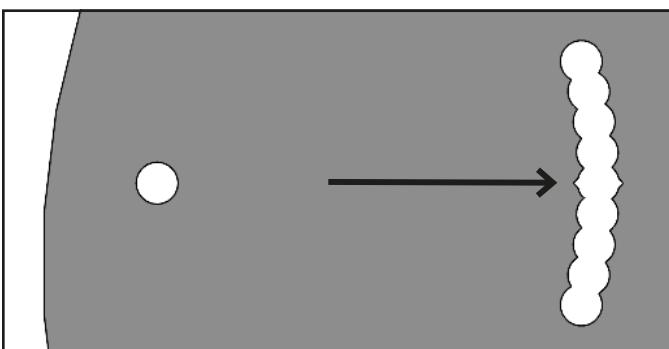


Fig 14.2.1 - Vane adjustment slot

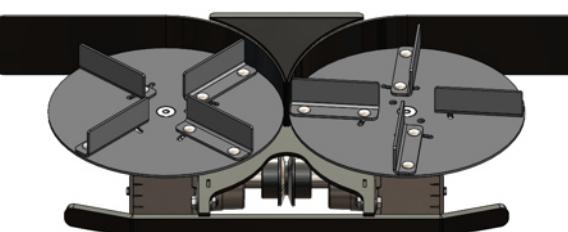


Fig 14.2.2 – Flat Vane configuration

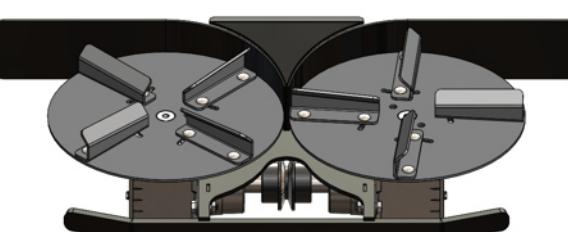


Fig 14.2.3 - Scoop configuration

Adjustment Settings:

- The spinner disc (D-0200) features a slotted mounting path for vane or scoop installation.
- The **center hole**, marked by **diamond points**, represents the default setting.
- Adjusting vane or scoop positions within the slot affects the spread pattern:
 - Wider, lighter spreads for finer materials
 - Narrower, heavier spreads for denser substrates



Fig 14.2.4 - D-0203 – Flat Vane

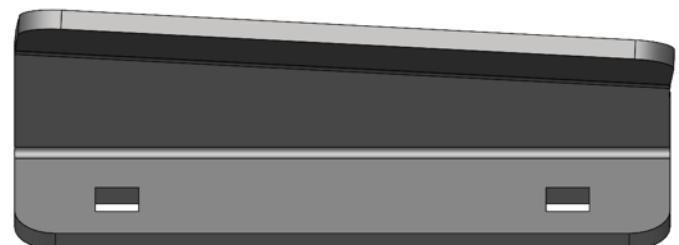


Fig 14.2.5 - D-0202 – CCW Scoop

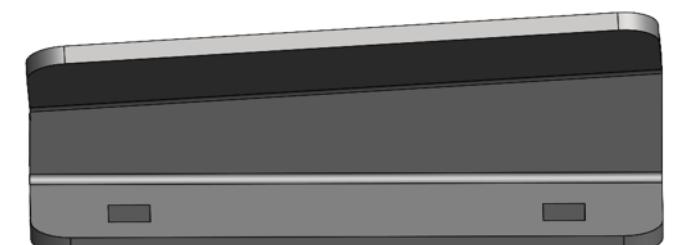


Fig 14.2.6 - D-0201 – CW Scoop

15 ACCESSORIES

ECO SEEDER

| Part #: E-0004

The ECO Seeder turns a multi-step task into a single operation by spreading seeds and compost at the same time.

FEATURES:

Self-propelled broadcast top dresser

- The stainless-steel container holds 5 to 6 pounds of seed. It can also be used for synthetic fertilizer, bio-char blends, and other products.
- Its adjustable and precise opening mechanism allows the operator to adjust the flow as desired.
- The Eco-Seeder fits all Ecolawn Applicator models.



GATE STOPPER

| Part #: MIC-025

Pre-adjustable door opening ensures consistent setting for each use, adapted to the specific material being spread.

- The gate stopper fits on ECO 250, ECO 250-S, ECO 250-G, ECO 250-E



16 SPARE PARTS

Order parts through your local dealer or distributor, have your model and serial numbers ready when ordering parts. Only use OEM parts, failure to do so will void the warranty.

PART #	DESCRIPTION
C-0004	DIFFERENTIAL
C-0005	DOUBLE GROOVE V-BELT PULLEY 2MA53-3/4"
C-0006	DOUBLE GROOVE V-BELT PULLEY (TO MOTOR) 2MA 58-3/4
C-0007	DOUBLE GROOVE V-BELT PULLEY (TO CONVOYER) 2MA 25 3/4"
C-0008	EXTENSION SPRING 3.25"
C-0009	FLANGE BEARING 3/4"
C-0010	BEARING (SUPPORT DIFFERENTIAL)
C-0011	MOTOR BELT GUARD -> REPLACED BY MIC-017_150_250 <-
C-0016	MOTOR CABLE & CONTROLLER
C-0017	HONDA MOTOR GX160 HH
C-0018	MUFFLER / DEFLECTOR COMP.
C-0019	OILITE BUSHING OD 7/8" X ID 5/8" X 1/2" LG
C-0021	OILITE BUSHING OD 1" X ID 3/4" X 3/4" LG
C-0025	COMPRESSION SPRING (0.312" OD X 0.047" X 2")
C-0026	SINGLE GROOVE V-BELT PULLEY MA25-3/4"
C-0027	SINGLE GROOVE V-BELT PULLEY MA30-3/4"
C-0028	SINGLE GROOVE V-BELT PULLEY MA 43 3/4 - I.D. 3/4"
C-0029	SPROCKET 48 TEETH
C-0030	SPROCKET 14 TEETH
C-0037	RECT VINYL CAP ROUND END 5/8" X 1 3/4"
C-0040	GEAR BOX PGM 1000-026D
C-0041	SINGLE GROOVE V-BELT PULLEY MA25 - 7/8
C-0042	WOODRUFF KEY NO. 6, 5/32" W X 5/8"
C-0043	WOODRUFF KEY NO. 9, 3/16" W X 3/4"
C-0044	NOTCHED V-BELT AX37 (TO MOTOR)
C-0045	V-BELT-ECO 250 -A81
C-0046	NOTCHED V-BELT AX28 (TO CONVEYOR)
C-0047	PILLOW BLOCK 1"
C-0048	PILLOW BLOCK 3/4"
C-0052	CHAIN 60" (INCLUDES C-0014 & C-0015)
C-0101	BEARING FLANGE (LOCKING COLLAR)
C-0105	SLICK SWIVEL WHEEL 4,1 X 3,5-4 W/BRAKE
C-0106	TURF SAVER TIRE AND BLACK RIM 16" X 7.50"
C-0107	SPHERICAL ROD END 3/8-24 W/NUT BZ/P
C-0108	SPHERICAL ROD END 3/8-24 LH W/NUT BZ/P
C-0109	GUIDED CONVEYOR BELT CRES TOP 61 3/8" X 13 3/4"
C-0110	GUIDED CONVEYOR BELT ROUGH TOP 61 3/8" X 13 3/4"
C-0152-01	CONVEYOR (CLUTCH) BELT GUARD ECO250
C-0153	PULLEY AND BELT GUARD
C-0160	V-BELT A55 (SMOOTH)
C-0166	GRIP (RUBBER) ID 7/8"

16 SPARE PARTS

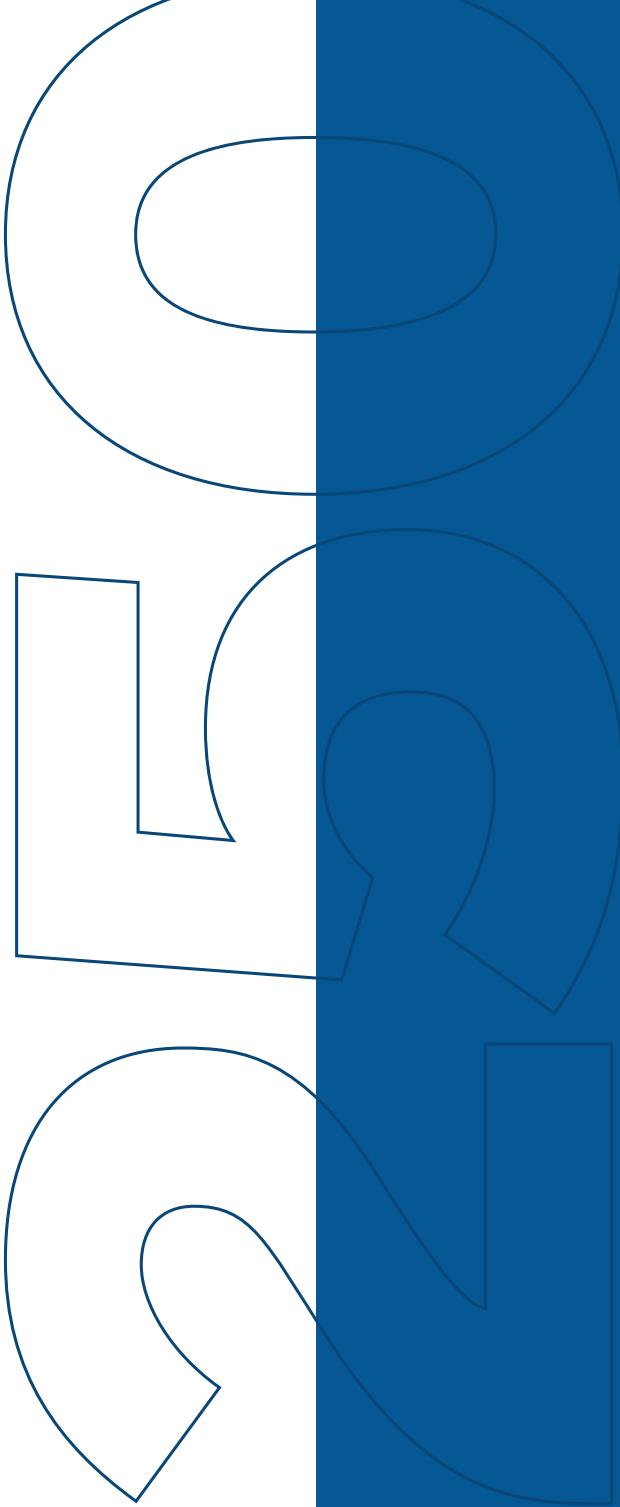
PART #	DESCRIPTION
C-0217	RUBBER CAP (HONDA MOTOR)
D-0017	FEED TRAP HANDLE
D-0027	MOUNTING PLATE -> REPLACED BY MIC-017_150_250 <-
D-0045	FEED TRAP - INDICATOR
D-0070	FEED TRAP - SUPPORT LEVER - ECO 250
D-0109	DIFFERENTIAL SUPPORT BRACKET
D-0111	DEFLECTOR FOR BELT
D-0113	CENTRAL WEIGHT DEFLECTOR
D-0114	ANTI-FRICTION PLATE GUIDED CONVEYOR -> USED WITH S-1183 <-
D-0115	GUIDED DRIVE ROLLER SCRAPER
D-0117	GROUNDING PLATE
D-0168	ANGLE BRACKET
D-0177	FEED TRAP_250
D-0184	SHORT FLAP CLIP
D-0185	LONG FLAP CLIP
D-0194	AGITATOR SUPPORT PLATE
D-0200	ADJUSTABLE DISC PLATE
D-0201	SCOOP CW FOR D-0200
D-0202	SCOOP CCW FOR D-0200
D-0203	FLAT BLADE FOR D-0200 DISC
D-0268	FEED TRAP ADJUSTER BRAKET
D-0666	LEFT SIDE LIFT HOOK
D-0667	RIGHT SIDE LIFT HOOK
D-0999	CHAIN GUARD
D-1125	CONVEYOR SCRAPER UPPER - GUIDED
D-1162	CONVEYOR SCRAPER LOWER SIDE - GUIDED -> USED WITH D-1125
D-1162-02	CONVEYOR SCRAPER CENTER BLADE W/SLOT - GUIDED
GA-001_250	GALVANISED S/A FEED TRAP 250
GA-006_250	GALVANISED S/A PLATE EJECTION 250
GD-1125	GALVANISED CONVEYOR SCRAPER SUPPORT - GUIDED
GIC-104	GALVANISED SCRAPER ASSEMBLY GUIDED
GIC-119	GALVANISED S/A CONVEYOR SUPPORT PLATE GUIDED
GS-0021	GALVANISED DEFLECTOR FOR DOUBLE PLATE (LONG)
GS-0026	GALVANISEZ DOUBLE PLATE EJECTION SUPPORT ECO 250
GS-0076	GALVANISED 4 PRONG MIXED-BLENDER
GS-0202	GALVANISED FRAME ECO-250
GS-0253	GALVANISED FEED TRAP-SUPPORT-ECO 250
GS-0274	GALVANISED PLATE EJECTION ECO 250
GS-1183	GALVANISED CONVEYOR SUPPORT PLATE GUIDED
MIC-002_250	S/A CHAIN 250
MIC-003_150_250	S/A CLUTH HANDLE
MIC-006_150_250	S/A CONVEYOR CLUTH ARM
MIC-007_150_250_H	S/A MOTOR HONDA
MIC-009_250	S/A SHIPPING KIT 250
MIC-010_150_250	S/A ROD ADJUSTEMENT LH-RH

PART #	DESCRIPTION
MIC-013_150_250	S/A CLUTCH ROD
MIC-014_250	S/A HANDLE FEED TRAP 250
MIC-015	S/A AGITATOR SUPPORT
MIC-017_150_250	S/A MOTOR GUARD
MIC-018_150_250	S/A ELECTRIC CABLE
MIC-020_250	S/A HOPPER ECO 250
MIC-025	ADJUSTBLE FEED TRAP STOPPER
MIC-026	ADJUSTABLE SCOOP DISC CW
MIC-027	ADJUSTABLE SCOOP CCW
MIC-066	250 TRAP DOOR SHORT ROD
MIC-104	SCRAPER ASSEMBLY GUIDED
MIC-108	250 TRAP DOOR LONG ROD
MIC-110	CONVEYOR CLUTCH ROD ASSEMBLY
MIC-113	CLUTCH ROD ASSEMBLY
MIC-119	S/A CONVEYOR SUPPORT PLATE GUIDED
Q-0002	EXTERNAL RETAINING RING 5/8"
Q-0003	BEARING BALL/STEEL 5/16"
Q-0004	ALAN SOCKET CAP SS 1/4-20 X 1/2"
Q-0006	SNAP RETAINING RING 1/2"
Q-0007	FLAT HEAD 1/4-20 X 1"
Q-0008	FENDER WASHER 1/2" X 2"
Q-0009	FLAT WASHER 1/4"
Q-0011	FLAT WASHER 3/8"
Q-0015	HEX BOLT 1/4-20 X 3/4"
Q-0016	CARRIAGE BOLT 1/4-20 X 1"
Q-0019	HEX BOLT 3/8-16 X 1"
Q-0020	HEX BOLT 3/8-16 X 1 1/4"
Q-0022	HEX BOLT 3/8-16 X 2"
Q-0023	HEX BOLT 3/8-16 X 3"
Q-0025	NYLOCK #10-24
Q-0026-L	HEX NUT 3/8-16 LEFT THREADED
Q-0026-R	HEX NUT 3/8-16 RIGHT THREADED
Q-0029	LINCH PIN 1/4" X 1 3/4"
Q-0030	LINCH PIN 5/16" X 1 3/4" LG
Q-0031	LOCK WASHER 3/8"
Q-0033	NYLOCK 3/8-16
Q-0035	RIVET ALU 3/16" -> REPLACED BY MIC-017-150_250 <-
Q-0036	SET SCREW 1/4-20 X 1/4" LG
Q-0038	METAL SCREW #8 X 3/8"
Q-0039	ROUND HEAD SCREW #10-24 X 3/4"
Q-0040	SERRATED FLANGE HEX LOCKNUT 1/4-20
Q-0041	SERRATED FLANGE HEX LOCKNUT 3/8-16
Q-0043	SERRATED FLANGE HEX LOCKNUT 5/16-18
Q-0047	HEX BOLT 5/16-18 X 1"
Q-0049	SPRING PIN 3/16 X 1

16 SPARE PARTS

PART #	DESCRIPTION
Q-0051	LOCK WASHER 5/16"
Q-0052	MACH SCREW T.P. 1/4-20 X 1/2"
Q-0053	BUTTON SOCKET CAP SCREW 5/16-18 X 1/2"
Q-0055	CARRIAGE BOLT 1/4-20 X 1/2" LG
Q-0063	FLAT WASHER 3/4 X 1.25" OD
Q-0064	CARRIAGE BOLT 1/4-20 X 3/4"
Q-0096	0.093" X 1-5/8" OAL ZINC PLATED HAIRPIN COTTER
Q-0114	HEX BOLT 5/16-18 X 1 3/4"
Q-0126	NYLOCK SS 1/4-20
Q-0130	FLAT HEAD 1/4-20 X 1 1/2"
Q-0151	HEX BOLT 5/16-18 X 1 1/2"
Q-0152	CARRIAGE BOLT 1/4-20 X 1 1/2"
Q-0154	HEX BOLT 3/8-16 X 1 3/4"
Q-0155	MACH. SCREW 1/4-20 X 3/4"
Q-0156	CARRIAGE BOLT 3/8-16 X 1 1/4"
Q-0157	HEX BOLT 1/4-20 X 1 1/4"
Q-0166	FLAT WASHER 3/8" X 0.812" OD
Q-0265	NYLON CABLE CLAMP ID 1/8" WIDTH 1/2
Q-0267	MACH. SCREW 1/4-20 X 1 1/4"
Q-0269	METAL SCREW HEX TECK #10-16 X 5/8"
S-0007	ACCELERATION HANDLE
S-0008	LEFT THREADED LOWER CLUTCH ROD ATTACHMENT
S-0009	RIGHT THREADED UPPER CLUTCH ROD ATTACHMENT
S-0018	MIXER-BLENDER (LONG)
S-0020	TENSIONER ACCELERATOR
S-0021	DEFLECTOR FOR DOUBLE PLATE (LONG)
S-0026	DOUBLE PLATE EJECTION SUPPORT ECO 250
S-0027	CONVOYER CLUTCH ARM
S-0031	FEED TRAP MECHANISM-ECO 250
S-0034	PLATE EJECTION HUB
S-0082	MIXER BLENDER SUPPORT
S-0161	CONVEYOR ACTIVATION HANDLE
S-0168	DRIVE ROLLER
S-0202	FRAME ECO-250
S-0253	FEED TRAP-SUPPORT-ECO 250
S-0256	WELDED HANDLEBAR-ECO 250
S-0260	LEVER OPENING TRAP - ECO 250
S-0274	PLATE EJECTION ECO 250
S-0279	LEVER OPENING ECO-250
S-1167	NEOPRENE GUIDED FRONT ROLLER
S-1168	NEOPRENE GUIDED DRIVE ROLLER
S-1183	CONVEYOR SUPPORT PLATE GUIDED

PART #	DESCRIPTION
SA-001_250	S/A FEED TRAP 250
SA-002_50_150_250	S/A DRIVE ROLLER
SA-003_250	S/A HANDLEBAR 250
SA-004_250	S/A DRIVE SHAFT 250
SA-005_50_150_250	S/A DIFFERENTIAL
SA-006_250	S/A PLATE EJECTION 250
SA-012_250	S/A GEARBOX 250
SA-013_250	S/A FEED TRAP MECHANISM 250
U-0009	BUSHING OD 5/8 X ID 3/8 X 5/16 THICK
U-0011	KEY STOCK 3/16" X 1 1/4"
U-0015	SHORT COMMON ROD 12"
U-0017	ADJUSTMENT DRIVE SHAFT
U-0025	ACCELERATION HANDLE-PIVOT SHAFT
U-0034	TENSIONER WHEEL
U-0038	ACCELERATION HANDLE
U-0042	ROD CLUTCH
U-0045	COPPER SPACER 1/2" X 1,275"
U-0047	FEED TRAP GUIDE
U-0048	ROD ADJUSTMENT L & R THREADED
U-0052	CLUTCH HANDLE (METAL)
U-0062	MOTOR SPACER 5/16"
U-0066	FEED TRAP ROD - ECO 250
U-0096	NON-SLOTTED AGITATOR SHAFT
U-0155	MIXER BLENDER - KEYED SHAFT
U-0157	RUBBER FLAP 26-5/8 X 2-3/8 WITH HOLES
U-0158	RUBBER FLAP 14 X 2-3/8 WITH HOLES
U-0162	DRIVE SHAFT
U-0165	SHORT ROD LEFT THREADED
U-1008	TRAP OPENING ADJUSTMENT LONG TUBE
U-1010	CONVEYOR CLUTCH ADJUSTMENT TUBE
U-1017	DRIVE CLUTCH ADJUSTMENT TUBE
U-1066	TRAP OPENING ADJUSTMENT SHORT TUBE
U-1114	FEED TRAP ADJUSTABLE STOPPER
X-0251	HOPPER STICKER ECO 250-S
X-0255	HOPPER STICKER/1ST CHOICE (4 PO. X 10 PO.)
X-0256	OWNER'S MANUAL 250
X-0666	HOOK STICKER



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