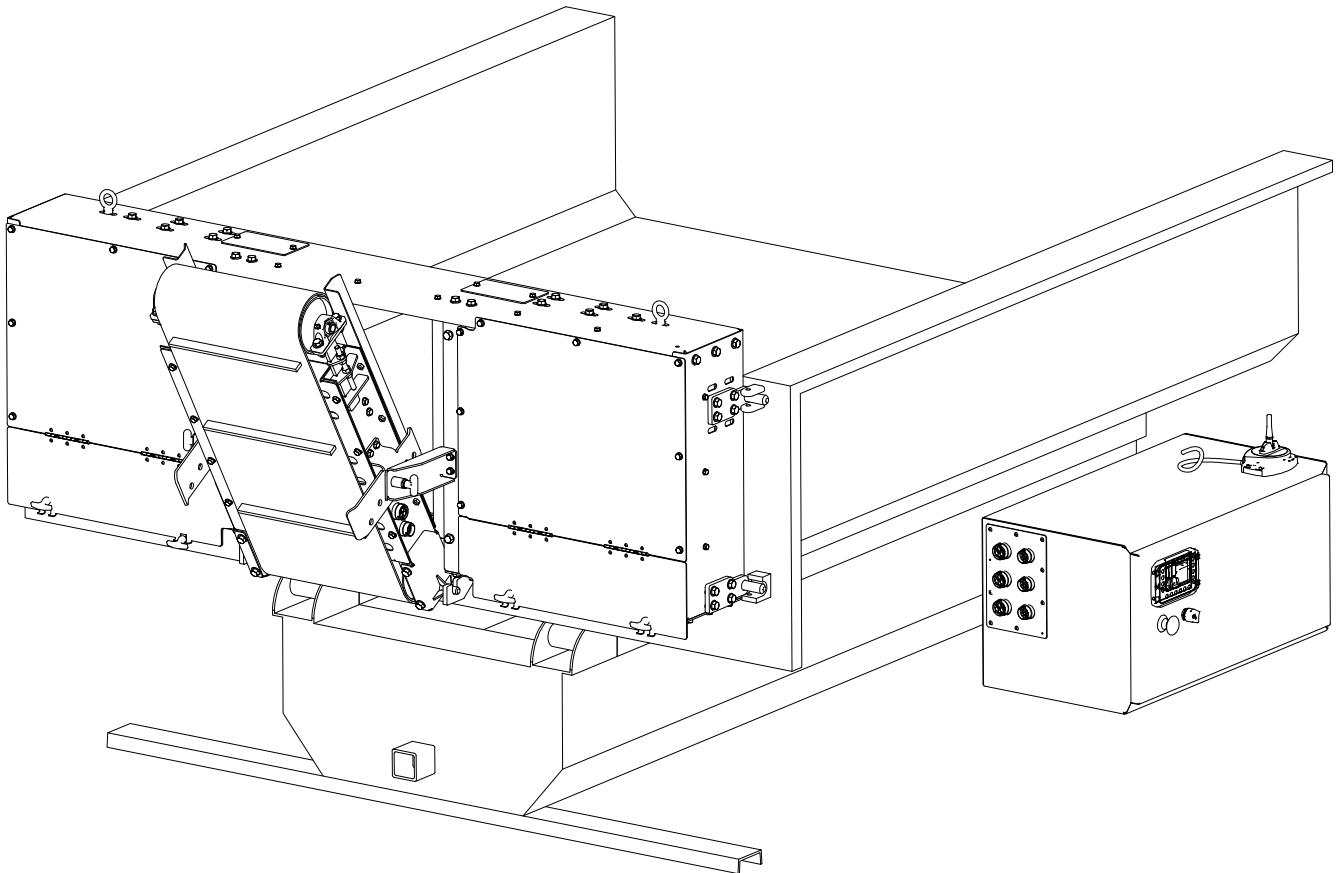




9281 LeSaint Drive • Fairfield, Ohio 45014
Phone (513) 874-2818
Sales: 1-800-543-7166



Activate
Your Warranty
By Registering
TODAY!!!



Modular Tailgate (MTG)

Operator Instructions and Parts Manual

Serial No. _____

[illegible][illegible]



ACTIVATE YOUR FINN EQUIPMENT WARRANTY

 It is the responsibility of the Finn Dealer to register your Finn Equipment shortly after the equipment start-up and operation overview at which time you will be asked to sign off on the **WARRANTY VALIDATION FORM**.

Be sure to confirm with your sales representative that this has been done.

This registration process activates the Finn Limited Warranty.

What should you do if you need repairs or parts under Warranty?

How to get parts and or repairs done under warranty:

Notify **YOUR DEALER** immediately when you discover a faulty material, workmanship, or faulty component. **Do not** wait weeks or months to get it reported. Be sure to tell the dealer that this is a failure that occurred under warranty.

NOTE: Warranty work must be done by a Finn Authorized Dealer in order to be covered by the Finn Warranty Program, unless otherwise approved by the Finn Warranty Administrator.

Instructions to Dealer on processing warranty work:

Initiating a claim

1. Be sure to have the model, serial number and number of hours on unit.
2. A description of the problem as understood at the time.
3. Call Finn's Warranty Administrator to secure warranty claim authorization number.
4. Confirm with Warranty Administrator that the unit is eligible for warranty coverage.
5. Any parts needed for the repair work should be placed with the Warranty Administrator instead of the parts department. These will be shipped to you at no charge pending the outcome of the investigation.
6. Labor hours must coincide with the published "Labor Schedule" or estimate approved by the Finn Warranty Administrator.
7. Once work is done, a Finn Warranty Claim Form must be filled out and emailed along with any related receipts or invoices to the Warranty Administrator. We ask that this is done ASAP after work is completed.

Faulty or failed parts:

IF Finn wants you to return failed parts, you will receive a return shipping label in the package with new parts. On that Label will be marked a return authorization number. (Which is the same number as you claim number.)

Please also mark the outside of the package that you are shipping back (using a marker) with the claim/return number. **THESE PARTS MUST BE RETURNED WITHIN 10 DAYS!** Failure to do so can void warranty coverage.

NOTE: Further information and related forms can be found on the Finn Web site in the Dealer Portal warranty section.

Warranty Coverage Period:

HydroSeeders and Straw Blowers: Two (2) years or 2000 hours whichever comes FIRST
Material Blowers and Modular Tailgate: One (1) year or 1200 hours whichever comes FIRST

1) OUR WARRANTY TO YOU:

Finn Corporation warrants to you, the original purchaser, for use (or rental to others for use) and to a second owner who purchases a used machine from an Authorized Dealer Rental Program (the remaining warranty), or from the original purchaser, all new construction machinery, parts and attachments (except those referred to herein) that are manufactured by Finn to be free from defects in material and workmanship for a period noted above. Replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period applicable to the product to which parts are installed, as if parts were original components of the product.

2) TO QUALIFY FOR WARRANTY CONSIDERATION:

- A. Your Finn Dealer will register your equipment with Finn.
- B. Notify your dealer same day or next day of any need for work under warranty. Equipment must be made available for warranty repair prior to additional operation.
- C. Warranty work must be done by an authorized Finn dealer or service provider of Finn's choice and any parts must be ordered through the Finn warranty administrator.

3) WHAT FINN WILL DO:

Upon notification to Finn concerning a failure of material or workmanship in accordance with the above stated Warranty, Finn Corporation will:

- A. Verify claim falls within the valid warranty time frame.
- B. Verify the product and equipment has been registered with Finn.
- C. Upon affirmation of warranty period and registration, Finn will provide new or repaired replacement part(s), whichever Finn elects and a return shipping label for returning failed parts if applicable.
- D. Evaluate the part when defective part is returned. If damage to a part is determined not to be covered under the warranty, the customer will be billed.
- E. Reconcile costs with customer for parts and shipping, as determined by our inspection of failed parts, and confirmation of warranty coverage, per the terms of this warranty.
- F. Correction of nonconformities, in the manner provided above, shall constitute fulfillment of all liabilities of Finn Corporation.

4) WHAT THE WARRANTY DOES NOT COVER:

- A. Normal wear parts, Allied Equipment, trade accessories not manufactured by Finn, such as but not limited to items such as engines, various filters, fluids, brakes, clutch linings, coupler insert, belts, hoses, light bulbs, mechanical seal, over center clutches, tires, ignitions, starters, batteries, carburetors, or like or unlike equipment or accessories (such being subject to the warranty, if any, by their respective manufacture).
- B. Secondhand, used, altered, or rebuilt machines or parts.
- C. Defects, malfunctions or failures resulting from accidents, abuse, misuse, improper servicing, or neglect of required operational guidelines and maintenance service, as outlined in the Finn Corporation's Operators Manual(s).
- D. Any defect or failure of products warranted arises out of or is caused by accessories or parts not manufactured or supplied by Finn Corporation, whether same are supplied by purchaser, dealers, or any other party.
- E. Additional damage caused by continuous use of a failed or damaged component from keeping equipment in use with the failed component.

5) STORAGE:

Dealers and customers are responsible to follow all guidelines related to Seasonal and Long Term Storage of Equipment, as advised in operation and equipment manuals (i.e. Finn, Engine, Clutch, Pump, Motor, etc.). Equipment failures caused by neglect of these guidelines are not warrantable.

6) THIS IS THE ONLY EXPRESS WARRANTY ON OUR PRODUCTS:

We neither assume nor authorize anyone to assume for us any other express warranty. The Distributor/Dealer has no authority to make any representation or promise on behalf of Finn Corporation or to modify the terms or limitations of this warranty in any way.

THIS WARRANTY THEREFORE SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

7) LIMITATIONS ON OUR RESPONSIBILITY WITH RESPECT TO PRODUCTS PURCHASED:

- A. The remedies of the user set forth herein are exclusive, without regard to whether any defect was discoverable or latent at the time of delivery of the product to the purchaser.
- B. Transportation, hauling, storage or other similar costs, are not part of Finn's obligation under the limited warranties and is the responsibility of the equipment owner.
- C. **THE ESSENTIAL PURPOSE** of this exclusive remedy shall be to provide the original purchaser with repair or replacement of parts that prove to be defective within the period and under the conditions previously set forth. This exclusive remedy shall not have failed of its essential purpose (as that term is used in the Uniform Commercial Code) provided Finn remains willing to repair or replace defective parts within a commercially reasonable time after it obtains actual knowledge of the existence of a particular defect.
- D. **IN NO EVENT** shall Finn be liable for any special, consequential, incidental or indirect damages, including lost profits or lost commercial opportunities, with respect to the sale of the above warranted product or anything done in connection therewith, or for property damage sustained by a person claiming to be a third party beneficiary of a surviving warranty under the law of any jurisdiction.

8) NOTICE:

FINN CORPORATION URGES the use of only Finn Corporation supplied parts and attachments to assure proper performance and safe operation of Finn Corporation equipment. Insist on parts and attachments manufactured or supplied by Finn Corporation when you purchase, repair or replace your Finn equipment and attachments. Finn Corporation cannot assure that parts and attachments not manufactured or supplied by Finn meet Finn Corporation's quality standards, specifications or operating requirements. The Finn Limited Warranty is not effective to the extent any failure of or a defect in Finn Corporation product arises from or is caused by parts, attachments or components not originating with Finn Corporation. Use of Finn Corporation equipment with parts and attachments not manufactured or supplied by Finn Corporation could result in personal injury and void warranty coverage.

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SAFETY FIRST

With any piece of equipment, new or used, the most important part of its operation is **SAFETY!**

FINN Corporation encourages you and your employees to familiarize yourselves with your new equipment and stresses safe operation.

The first pages of this manual are a summary of the main safety aspects associated with this unit. Be sure to read and understand completely before operating the machine.

The symbols below are used throughout the operation and maintenance sections of this manual to call attention to safety procedures.

DANGER

*Danger indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.*

WARNING

*Warning indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.*

CAUTION

*Caution indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury.*

NOTICE

*Notice indicates important information, that if not followed, **MAY** cause damage to equipment.*

NOTE: This is helpful information.

The **DANGER**, **WARNING**, **CAUTION** and **NOTICE** notifications and instructions in this manual *cannot* cover all possible conditions and situations that may occur.

It must be understood by the operator that caution is a factor which *cannot* be built into this product; caution must be supplied by the operator.

CALIFORNIA PROPOSITION 65

WARNING

The engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm. Wear protective equipment.



WARNING

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

TAILGATOR® SAFETY SUMMARY SECTION

It is important that all operators of this machine are familiar with all the safety aspects mentioned below before operating the machine. Always keep a copy of this manual with the machine. It is the responsibility of the operator of the machine to fully understand this safety section. Remember that YOU are the key to safety. Good safety practices protect not only you but also the people working with and around you. Keep in mind that this safety sheet is written for this type of machine only. Practice all other usual and customary safe working precautions; and above all, remember that safety is up to you.



I. PRE-START EQUIPMENT CHECK

(equipment check is to be made with the engine off)

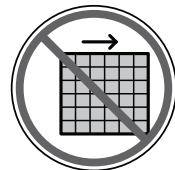
1. Check that all mounts securing the TailGator® to the vehicle are properly fastened.
2. Verify that all guards are in place.
3. Inspect belts for major wear, damage, or material jams. Replace belts immediately if damaged.
4. Inspect all electrical harnesses for wear or exposed wires. Replace immediately if damaged.

II. MACHINE OPERATION

1. Always wear safety goggles when operating and/or feeding the machine. Other safety attire, such as safety shoes, ear protection, gloves, hard hats, dust masks, etc., should be worn as required by warning decals on machine, operator's manuals, or job site requirements. Remove rings, watches, etc. Avoid wearing loose-fitting clothing that may get caught in rotating machinery.



2. Do not operate the machine without all guards in place.



3. Make sure that no one is working in or on the machine. Make sure the discharge area is clear of all persons, animals, etc. Signal visually or audibly that all is clear before starting the engine. Keep unauthorized personnel away from the machine and discharge area.



4. Never operate this or any other machinery when fatigued, tired, under the influence of alcohol, illegal drugs, or medication. You must be in good physical condition and mentally alert to operate this machine.
5. Never modify the machine. Never remove any part of the machine (except for service and then reinstall before operating).
6. Do not open any doors or access panels while machine is in operation. Severe injury may result from rotating parts.



7. Do not attempt to pull anything out of the conveyors while machine is in operation. Shut down and lockout the battery using the OSHA lockout/tagout procedure (29 CFR 1910.147) before removing any foreign objects.



Signal visually and audibly that all is clear before operating the machine.

8. When leaving the MTG unattended for any reason, be sure to:
- A. Shut off the material feed system using the controls on the control panel or controls on the remote.
 - B. Shut off vehicle engine.
 - C. Place transmission of the vehicle in "NEUTRAL" or "PARK".
 - D. Set parking brake firmly.
 - E. Remove keys from MTG unit.
 - F. Lock vehicle cab and take all keys with you.
 - G. If parked on a steep grade, block the wheels.

These actions are recommended to avoid unauthorized use, runaway, vandalism, theft, and unexpected operation when the equipment is unattended.

9. Do not read, eat or otherwise lose or lessen your attention in any manner while operating the blower. Operating this equipment is a full-time job.

10. All personnel operating in/or around the machine must be aware that the MTG can be controlled via remote control. For safety reasons and to prevent accidental starting, always keep the Emergency Stop (e-stop) button depressed on the remote control hand held unit when unit is not being used.



11. When opening the electrical cabinet be sure to avoid contact with the battery and electrical connections. Electrocutation could occur.



III. MAINTENANCE

1. Before servicing the machine, turn off engine and allow all moving parts to stop. To prevent accidental starting, disconnect battery cables. Tag the engine operating area to show that the machine is being serviced. Use lockout/tagout procedure (OSHA 29 CFR 1910.147).



2. It is recommended that only authorized, genuine FINN replacement parts be used on the machine.

3. Some parts and assemblies are quite heavy. Before attempting to unfasten any heavy part or assembly, arrange to support it by means of a hoist by blocking or by use of an adequate arrangement to prevent it from falling, tipping, swinging, or moving in any manner. Failure to do so could result in component damage, or physical injury to someone.



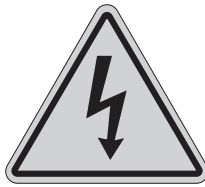
4. Do not pressure wash this unit. Do not pressure wash around any control boxes, radio remotes or control panels. Pressure washing this unit can cause damage to the electrical systems and components and also cause the unit to not function. Pressure washing injects water into sensitive electrical components. To clean the unit, use a method that controls the amount of water that is applied to the surface of the unit.



COMMON SAFETY SYMBOLS



Hazard/
Attention



Electrical
Shock Hazard



Hearing
Hazard



Arc Flash
Hazard or
Explosion
Hazard



Electrocution
Hazard



Fire Hazard



Body
Entanglement
Hazard



Electrostatic
Discharge
Hazard



Fumes/Dust
Hazard



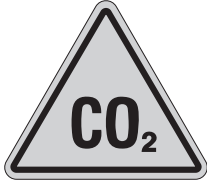
Burn Hazard



Electrostatic
Sensitive Area
Hazard



Pinch Point/
Entanglement
Hazard



Carbon
Dioxide
Hazard



Explosive or
High Pressure
Hazard



Grounding
Required
Hazard



Corrosive
Hazard



Explosive
Material
Hazard



Crush Hazard



Cut/Crush
Hazard



Vision Damage
Hazard



Crush/Pinch-
point Hazard



Cut/Sever
Hazard



Vision and
Hearing
Damage
Hazard



Crush/
Entrapment
Hazard



Sever/Reach
Hazard



Vision,
Hearing and
Respiratory
Damage
Hazard



High Voltage
Hazard

COMMON SAFETY SYMBOLS



Heavy Object Hazard



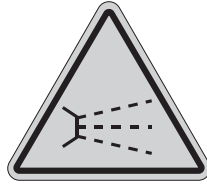
Skin Puncture Hazard



Breathing Protection Required



Hot Surface Hazard



Splash/Spray Hazard



Vision Protection Required



Loose Clothing Entanglement Hazard



Stumble Hazard



Hearing Protection Required



Pinch Point/
Moving Belt Hazard



Trip Hazard



Vision, Hearing and Head Protection Required



Poison Hazard



Watch Head/
Overhead Hazard



Breathing, Vision, Hearing and Head Protection Required



Radio Frequency Hazard



Fall/Loss of Balance Hazard



Foot Protection Required



Remote Start Hazard



Battery Charging in Enclosed Area Hazard



Lockout/
Tagout Procedure Required



Sever by Rotating Parts Hazard



Mandatory Operator Action Required



Gloves Required



Rotating Shaft Hazard



Read Manual



Trailer Safety

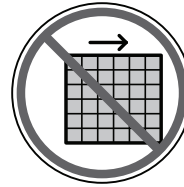
COMMON SAFETY SYMBOLS



Lift Point



Do Not Ride
on Moving
Vehicle



Do Not
Remove
Guards



Do Not
Obstruct
or Block



Do Not Spray
Power Lines



Do Not Touch



Do Not
Pressure Wash

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OPERATION AND MAINTENANCE MANUAL FOR FINN TAILGATOR®

INTRODUCTION

The FINN Corporation would like to thank you for your latest FINN purchase. In our efforts to maintain a quality and growing relationship with every customer, we would like to encourage you to contact us for help with service, genuine replacement parts, or for any other information you may require.

THE FINN MTG AND ITS FUNCTION

The FINN MTG (TailGator®) is an apparatus for conveying and discharging bulk materials, such as bark mulch, at a fast and uniform rate utilizing a minimum amount of manpower. The product to be used is generally composted and processed, then used as a soil amendment, a ground cover for erosion and weed control, or for decorative purposes on landscaping (bark mulch).

This manual is intended to provide step-by-step instructions on the operation, care, and maintenance of the TailGator®. In addition, it contains illustrations and a complete list of parts and components for easy identification.

HOW THE TAILGATOR® WORKS

The bulk material is loaded into the dump body by a loader or by a feed elevator. There are two feed conveyors on the inside of the tailgate that feed material onto the exit conveyor. The exit conveyor then discharges the material into a material blower or other piece of equipment used for spreading the material.

NOTICE

For best results and to ensure safe operation and long life of the equipment, please read and follow all instructions carefully.

MOUNTING THE MTG AND EXIT CONVEYOR

The TailGator® is designed to replace a standard tailgate on a dump body. Use the same four mounting points and latching procedure to mount the pins of the TailGator®. Use a hoist to lift and set the TailGator® on dump body. Make sure to utilize the two lifting eyes on the top of the MTG frame when attaching the hoist.

Use the hoist to attach the exit conveyor. Loop a properly rated soft strap through the exit end of the belt. Ensure both locking pins are in the unlock position. Make sure the conveyor is completely vertical and lower it so that the pins sit into the pivot points on the MTG. Once the pins are seated, continue to lower the conveyor so it pivots down to the first locking hole on the latching mechanism. Twist to lock both latches. Ensure both latches are locked into the holes.

⚠ WARNING

Ensure the TailGator® is properly latched to the dump body before detaching the hoist.

⚠ WARNING

Ensure the exit conveyor is properly seated and latched to the MTG before detaching the hoist.

⚠ WARNING

The FINN TailGator® should be mounted by a qualified truck body installer. Failure to comply could result in personal injury. Failure to comply could also result in product or property damage.

⚠ WARNING

Install/Mount the FINN TailGator® in compliance with the vehicle ratings, machine mounting requirements and applicable laws. Failure to do so could result in personal or property damage.

NOTICE

The mounting of the TailGator® to the truck must allow for tire clearance as well as frame twist.

Follow mounting instructions given in the Truck Mounting/Loading Information section. Consult truck manufacturer for proper truck sizing and mounting recommendations. If mounting conditions require deviation from these instructions, consult the factory.

SELECTING A MULCHING MATERIAL

Several factors must be considered when selecting material to convey through the TailGator®. The variety of the wood used, how it is processed, its moisture content, and the presence of foreign objects all affect the ability of the TailGator® to convey the mulch at a uniform rate.

There are many different types of material that can be successfully processed through your TailGator®. These materials are categorized into three main groups. These classifications are important when considering machine performance, material feed rate, and overall operation.

- 1. Dry Aged Material:** Aged double- and triple-processed bark mulch, saw dust, or wood shavings.
- 2. Green Material:** Single-process hard wood mulch, green wood, or large chunky material.
- 3. Wet or Heavy Material:** Wet, heavy bark mulch and compost. Heavy fluid materials such as sand, dirt or gravel.

Most importantly, when selecting a material, consider the greenness of the wood and its moisture content. Wood that is well seasoned is easier to cut than green wood. It also processes better, making a less stringy mulch. High moisture content in the mulch may also cause it to bridge in the hopper, and pack in the airlock vanes and discharge hose which will reduce the overall machine output.

Avoid using mulches that contain any hard foreign objects such as rocks, nails, steel, cans, glass, etc. These objects could cause bodily injury as well as damage to machine components.

PRE-START EQUIPMENT CHECK

⚠ CAUTION *Equipment check is made with the battery off and all rotating parts stopped. Failure to comply could result in minor or moderate personal injury. Failure to comply could also result in product or property damage.*

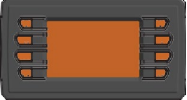
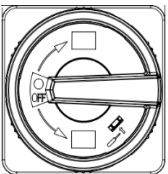
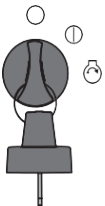
Safety check to ensure operator safety:

1. Ensure that all guards are in place.
2. Lubricate equipment - use hand gun only (see Lubrication Chart).
3. Inspect the conveyors for any jammed material or damaged belts.
4. Check conveyors and dump body for foreign objects that could injure workers or damage equipment when the machine is started.
5. Inspect electrical harnesses and connections for damage and ensure they are securely connected.
6. Lower exit conveyor into the desired operating angle.

NOTICE *Ensure the exit conveyor is not in the storage position.*

CONTROL GUIDE

Main Control Panel

Emergency Stop (e-stop)		The Emergency Stop (E-Stop) is a critical safety component. The button is colored red to be visible and to indicate a "stop" function. The button is made increasingly visible by the bright yellow that surrounds it. The E-Stop will cut all power to the machine when pushed (engaged). E-Stop devices should NEVER be disabled under any circumstances.
Digital Display Control Panel		Control interface for the unit which displays various functions of the unit. The digital display also shows information about the machine.
Battery Disconnect		A rotary switch used to disconnect battery power from the unit. This also places the unit in a ready to charge state.
Key (Engine Start)		Ignition switch which turns on the unit for operation. It has two functional settings: an OFF position and a RUN position which will activate the electronics of the unit and place the unit in a ready for operation state.

Ignition Switch Symbols

	OFF Symbol Key switch is in the OFF position cutting power from the unit.		RUN Symbol Key switch is in the RUN position while in operation.
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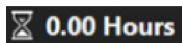
CONTROL GUIDE (CONTINUED)

Radio Remote Transmitter



CONTROL GUIDE (CONTINUED)

COMMONLY USED ICONS



HOURS Icon

Displays total hours.



BATTERY LEVEL Icon

Displays battery level of the MTG.



ALTERNATING ARROW Button

Switches control between the feed and exit conveyor.



START/STOP Button

Enables and disables the selected conveyor.



LEFT CONVEYOR DISABLE Button

Disables the left conveyor.



RABBIT BUTTON

Increases conveyor speed.



RIGHT CONVEYOR DISABLE Button

Disables the right conveyor.



TURTLE Button

Decreases conveyor speed.



FINN CONFIGURATION Button

Returns to the the Main Menu.



CONVEYOR DIRECTION Button

Changes direction of conveyor.

TAILGATOR® COMPONENTS

TAILGATOR® COMPONENT OVERVIEW

Please examine the TailGator® for any damage, and if any damage is found, report it immediately to Finn Corporation. The FINN TailGator® is built to exacting standards and, if properly maintained, will provide many years of reliable service. Read and follow every step of these instructions when maintaining the TailGator®.

NOTE: Record the TailGator® model and serial numbers in this instruction manual. Use this identification on any replacement part orders, or if service or application assistance is required.

TAILGATOR® COMPONENT OPERATING LIMITS

MAX FEED CONVEYOR BELT RPM	MAX EXIT CONVEYOR BELT RPM	MAX LOAD ON FEED CONVEYORS (PER CONVEYOR)	MAX LOAD ON EXIT CONVEYOR TEMPERATURE RISE	MAX MOTOR OPERATING TEMP
60	362	500 LBS	75 LBS	212°F (100°C)

To permit continued satisfactory performance, the TailGator® must be operated within certain approved limiting conditions. The manufacturer's warranty is, of course, also contingent on such operation.

⚠ WARNING *The maximum pressure conveyor loading shall not be exceeded. Exceeding the maximum conveyor loading will cause serious damage to the equipment.*

TAILGATOR® COMPONENT INFORMATION

This conveyor system is operated by AC brushless motors which drive a chain and sprocket to rotate a roller. The roller then rotates the belt which is also supported by an idler roller and UHMW wear strips. The design is modular to allow for easier replacement of components, different attachments, and ease of assembly. The exit and feed conveyors have similar designs. The main difference is that the exit conveyor is designed to run at a higher RPM and lower torque allowing for quick unloading of product.

⚠ WARNING *The TailGator® must be handled using an appropriate device such as a fork truck or appropriate lifting device when removed from the truck. Refer to table for approximate weights. Care should be taken to ensure the TailGator® does not over-turn during handling, removal, service and installation. Be sure to remove any attachments from the MTG before removing from the vehicle.*

CONTROL PANEL GUIDE AND SYSTEM OPERATION

The control panel has eight navigation buttons which are configured for use to properly operate and maintain the unit. Please read this entire section before starting the unit. This section will cover proper use of the control panel while the unit is running and the information should be familiar before starting the unit.

STARTUP PROCEDURE

⚠ CAUTION See safety section of the manual before operating the unit. Failure to comply could result in minor or moderate personal injury. Failure to comply could also result in product or property damage.

1. Turn the battery disconnect to the **ON** position.
2. Turn key clockwise to the **RUN** position and wait for control pad to illuminate and go through its start-up procedure.

MENU NAVIGATION

The eight main system softkeys on the sides are used to navigate between displays, select menu items, and change data view. Pressing any of the navigation softkeys will display the menu that is associated with each softkey.

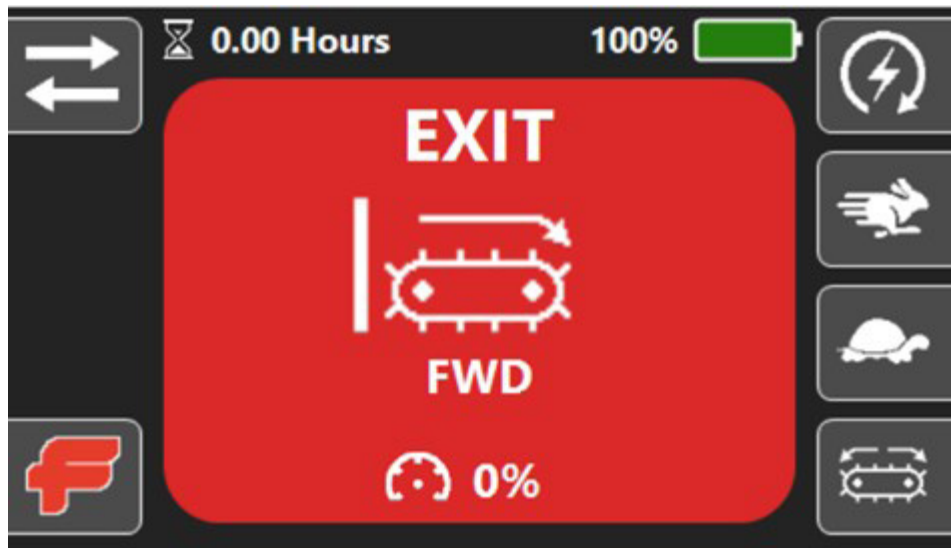
Shown below is the MAIN MENU screen. This is where you can access all screens on the unit.



CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

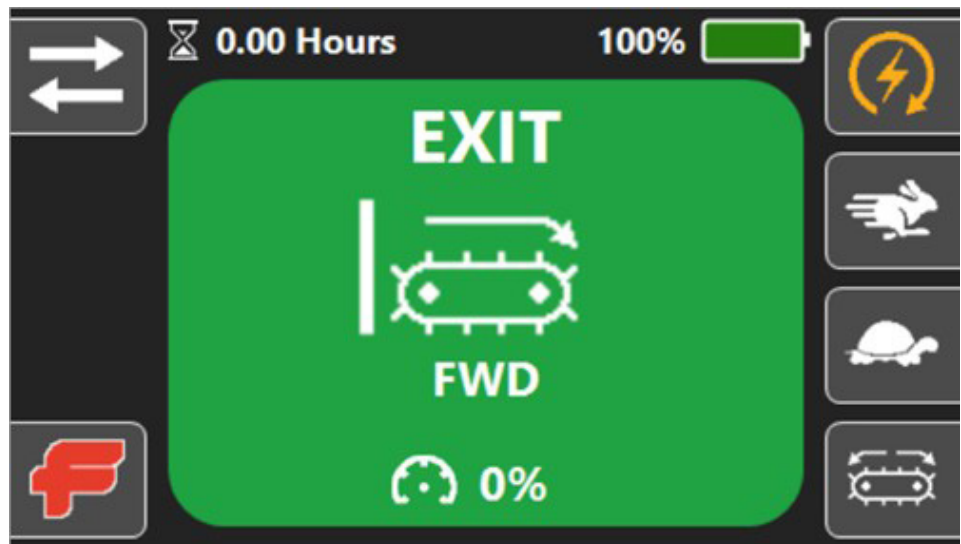
RUNNING THE UNIT FROM THE DISPLAY

Press the soft key next to the **MAIN** button. This will take you to the conveyor operation screens. The total Hours are displayed on the top left and the Battery life is displayed in a percentage format on the top right. The **ALTERNATING ARROW**  button, located in top left corner, switches control between the EXIT and FEED conveyors.



The **CONVEYOR START/STOP**  button is the power symbol with the clockwise arrow located in top right corner. When depressed and active, the button will turn orange and the conveyor screen will turn green.

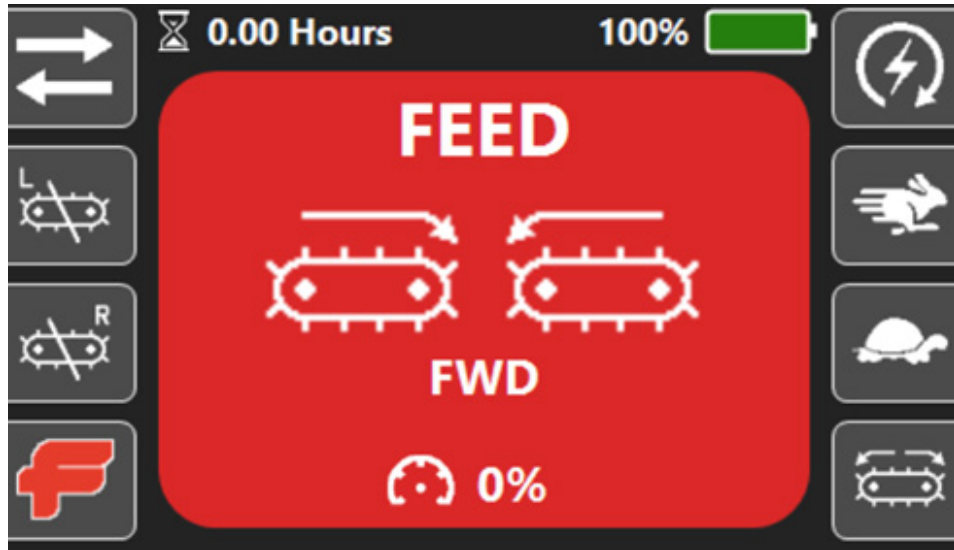
The **RABBIT**  button speeds up the conveyor speed incrementally by 10 percent increments. The **TURTLE**  slows down the conveyor by 10 percent increments.



CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

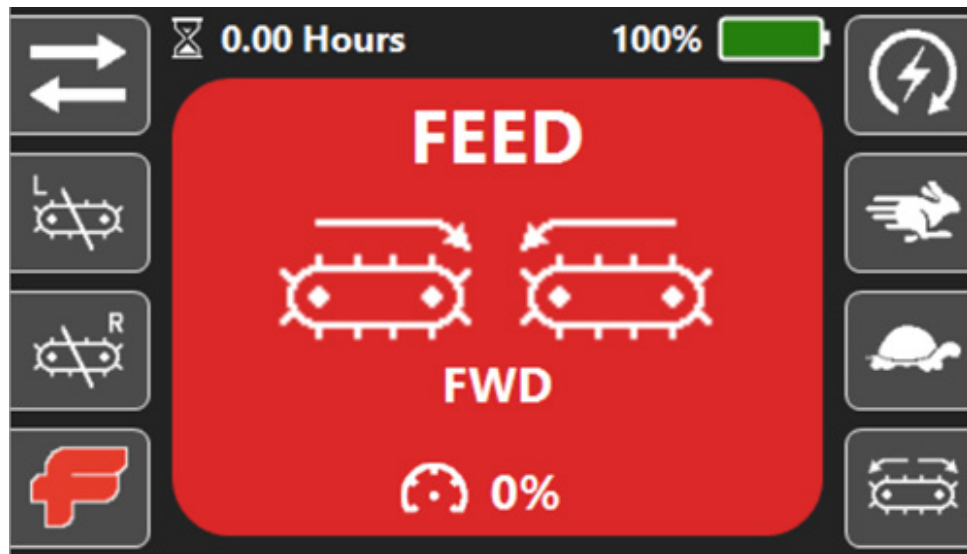
RUNNING THE UNIT FROM THE DISPLAY (CONTINUED)

The **CONVEYOR DIRECTION**  button is the button with the two arrows over the conveyor in opposite directions located in bottom right corner. It changes the direction of the conveyor. The direction is indicated in the middle of the display. The solid vertical line represents the MTG main tailgate. The letters **FWD** and **REV** also indicate the direction.



The **FINN**  button will take you back to the original Main Menu screen. Press the **ALTERNATING ARROWS**  button to swap to the FEED conveyors control screen. The **START**, **RABBIT**, **TURTLE**, and **CONVEYOR DIRECTION** buttons all function the same as on the EXIT conveyor.

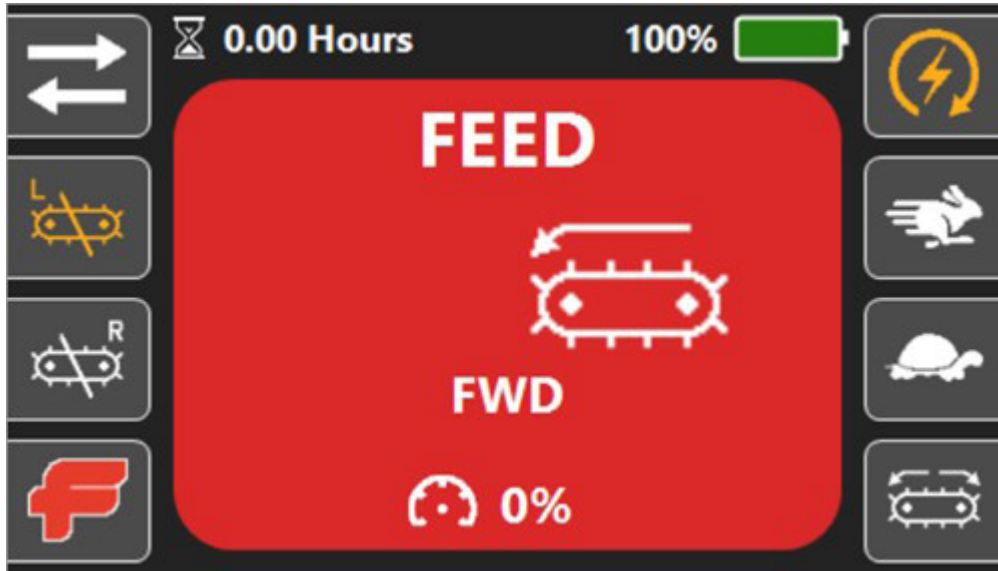
The display now shows the two feed conveyors with the direction they are traveling. FWD is when the conveyors are feeding material onto the EXIT conveyor or towards the middle of the tailgate. You can also reference the speed percentage at the bottom of the screen.



CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

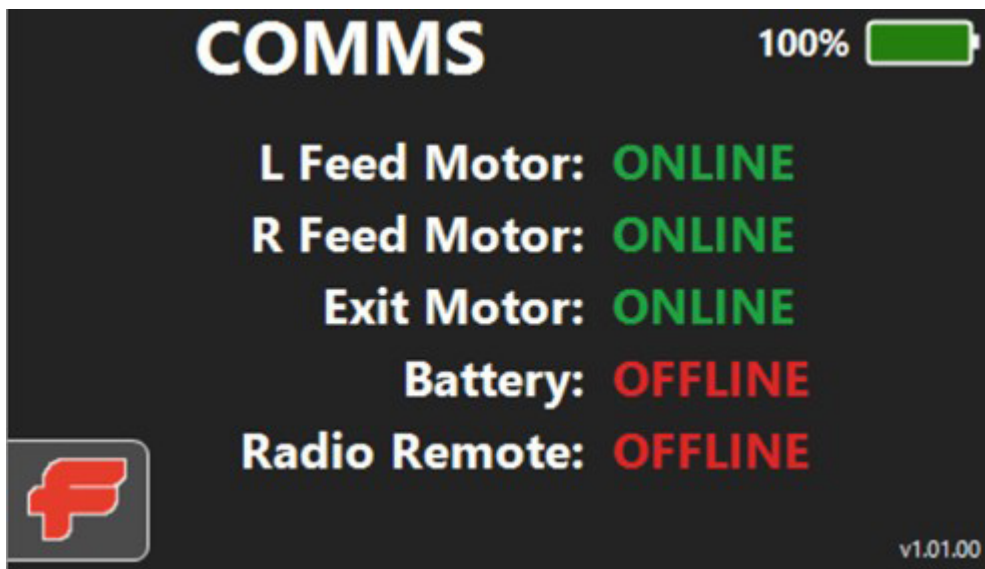
RUNNING THE UNIT FROM THE DISPLAY (CONTINUED)

There are two additional buttons on the FEED conveyor control screen. The **LEFT CONVEYOR DISABLE/ENABLE**  and the **RIGHT CONVEYOR DISABLE/ENABLE**  button are displayed on the left of the screen. When the corresponding **CONVEYOR DISABLE/ENABLE** button is depressed it will show up orange. That conveyor will no longer move when the START/STOP button is depressed. Reselect the **CONVEYOR DISABLE/ENABLE** button to engage the conveyor again.



Press the **FINN**  button to return to the MAIN MENU. Press the softkey next to the **COMMS** button.

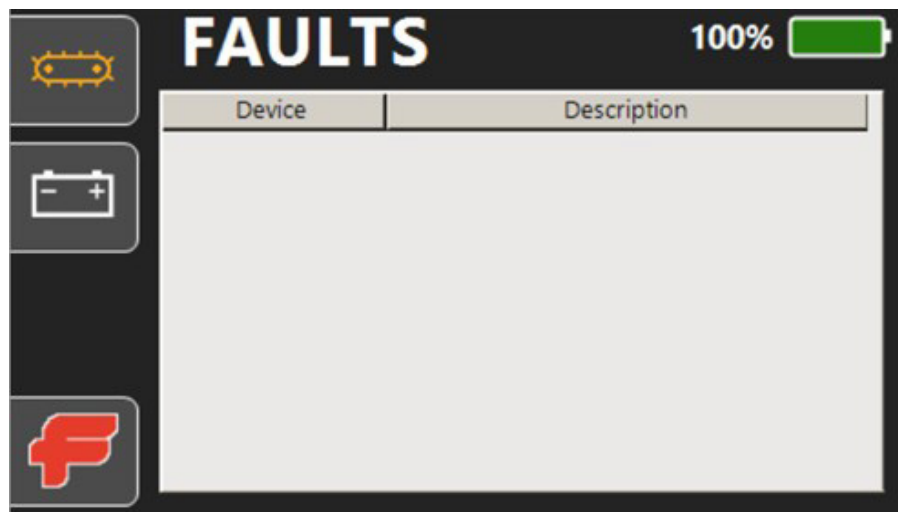
The **COMMS** screen displays the status of all the system components. All systems should show ONLINE during normal operation.



CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

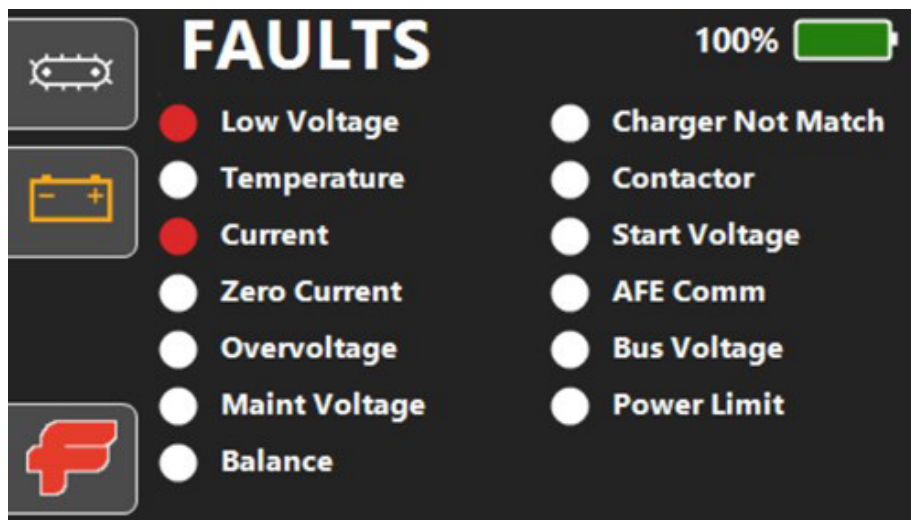
RUNNING UNIT FROM THE DISPLAY (CONTINUED)

Press the **FINN**  button to return to the MAIN MENU. Press the **FAULTS** button. This displays any error codes in the system. When you depress the **CONVEYOR FAULT**  button you will see any active conveyor faults.

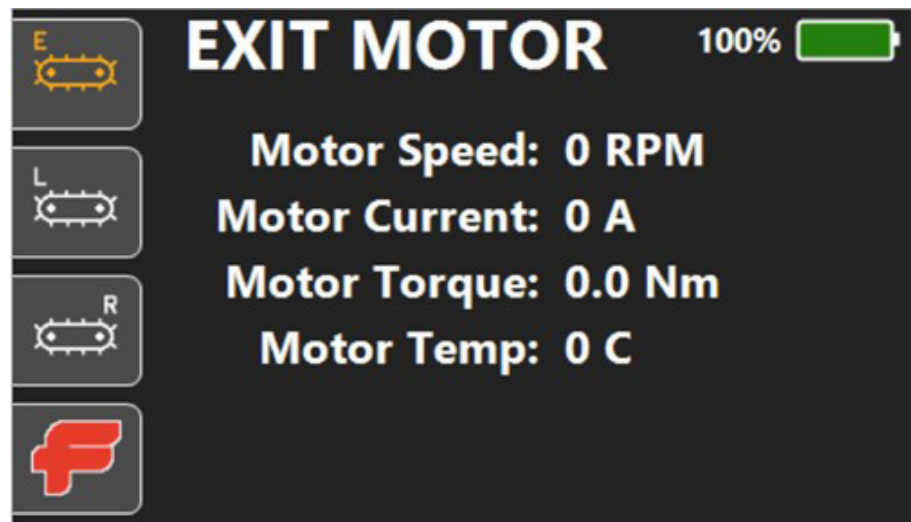


When you depress the **BATTERY FAULT**  button you will see any active battery faults. There should be no FAULTS present during normal operation.

Press the **FINN**  button to return to the MAIN MENU. Press the **MOTOR** softkey button.



There are three **CONVEYOR** buttons. Depending on what CONVEYOR button you have selected, you will see that conveyor's data. The data shown is MOTOR SPEED (RPM), MOTOR CURRENT (AMPS), MOTOR TORQUE (NM/INLB), and MOTOR TEMP (C/F). Press the **FINN**  button to return to the MAIN MENU.

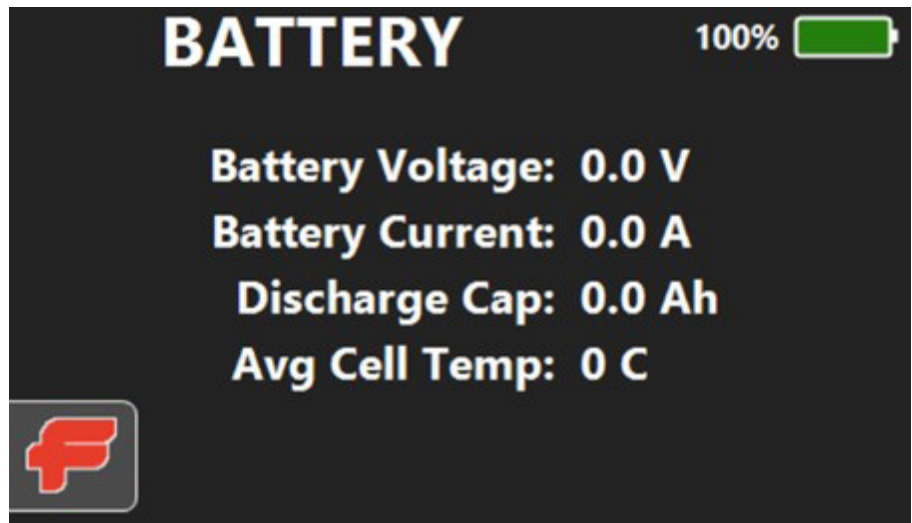


CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

RUNNING THE UNIT FROM THE DISPLAY (CONTINUED)

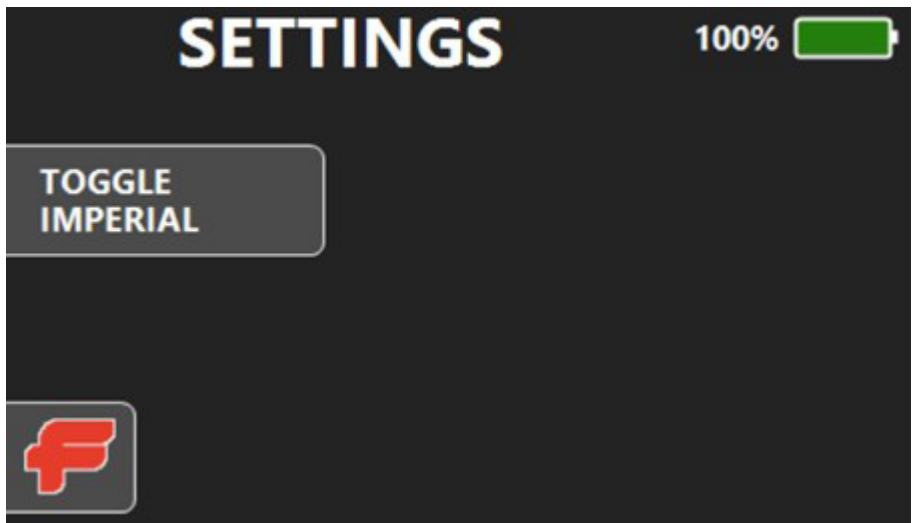
Press the **BATTERY**  button. This will display VOLTAGE (V), CURRENT (A), DISCHARGE CAP. (AH), AND AVG CELL TEMP (C/F).

Press the **FINN**  button to return to the MAIN MENU.



Press the **GEAR**  button which will take you to the SETTINGS screen. This is where you can toggle units from imperial or metric.

Press the **FINN**  button to return to the MAIN MENU.



Press the **LANGUAGE**  button. This is the last button in the right corner that looks like a globe. This is where you can set what language the display is set to.



CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

RUNNING THE UNIT FROM THE RADIO REMOTE

The majority of the time you will be operating the TailGator® using the radio remote. This will allow the operator to monitor the material flow during operation.

Power on the remote using the **I** symbol. Power off the remote using the **O** symbol or by pressing the E-STOP on top of the remote. The E-STOP will immediately shut down all conveyors. To unlock the E-STOP twist the button and it will unlock.

The remote buttons correspond closely to the display buttons. The main difference is that the SPEED INCREASE (plus) and SPEED DECREASE (minus) buttons replace the TURTLE and RABBIT buttons.

The EXIT conveyor is controlled by the buttons on the left column. The EXIT START/STOP button will start and stop the conveyor. You do not have to hold down this button to keep the conveyor active. You just need to depress this button once to start the conveyor and again to stop it.



CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

RUNNING THE UNIT FROM THE RADIO REMOTE (CONTINUED)

The **SPEED INCREASE** button speeds up the conveyor by 10 percent increments.

The **SPEED DECREASE** button slows down the conveyor by 10 percent increments

The **FWD/REV** button changes the conveyor direction.

The blank buttons do not control the unit.

The buttons on the right column control the FEED conveyors. All buttons function the same as the EXIT conveyor except for the two additional buttons at the bottom.

The **FEED DISABLE/ENABLE** buttons enable or disable the right or left conveyor when that corresponding button is pressed.



CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

DIAGNOSTICS

A list of FINN codes is shown below.

FINN Code	Problem
202	Over Current Error (2310h)
203	Over Current Glitch (2311h)
100	PS Short Circuit (2340h)
103	PS Short Circuit Glitch (2341h)
120	PS PWM Unexpected Off (2360h)
121	PS PWM Unexpected Off Glitch (2361h)
407	DC Bus Charging Error (3120h)
404	DC Bus High (3211h)
402	DC Bus High Volt HW (3212h)
406	DC Bus Low (3221h)
1700	15V OOR (3301h)
1701	5V OOR (3302h)
1710	Analog Sup 1 OOR (3311h)
1713	Analog Sup 2 OOR (3313h)
1730	Ext Ground Tripped (3330h)

CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

DIAGNOSTICS (CONTINUED)

A list of FINN codes is shown below.

FINN Code	Problem
603	Motor Temp Snsr High (4210h)
601	Motor Temp Snsr Open or Short (4220h)
503	PS Temp Snsr High (4310h)
500	PS Temp Snsr Open or Short (4320h)
200	Sensor Offset High (5210h)
1001	Open Drain Out High or Short 1 (5411h)
1002	Open Drain Out High or Short 2 (5412h)
1011	Open Drain Out Open 1 (5451h)
1012	Open Drain Out Open 2 (5452h)
1031	Open Drain Out Current When Off 1 (5461h)
1032	Open Drain Out Current When Off 2 (5462h)
1100	High Side Short (5500h)
1101	High Side In Low (5501h)
1102	High Side Out Low (5502h)
1108	High Side Overload (5508h)

CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

DIAGNOSTICS (CONTINUED)

A list of FINN codes is shown below.

FINN Code	Problem
1109	High Side High Peak Current (5509h)
1403	Checksum Error (5520h)
1420	Checksum Error – Snsr Angle Offset (5521h)
1423	Checksum Error – CANTalk (5524h)
1600	Sine/Cosine Sig 1 Gain OOR (7210h)
1601	Sine/Cosine Sig 2 Gain OOR (7211h)
1602	Sine/Cosine Sig 1 Offset OOR (7212h)
1603	Sine/Cosine Sig 2 Offset OOR (7213h)
1604	Sine/Cosine Sig 1 Short High (7214h)
1605	Sine/Cosine Sig 1 Short Low (7215h)
1606	Sine/Cosine Sig 2 Short High (7216h)
1607	Sine/Cosine Sig 2 Short Low (7217h)
1608	Sine/Cosine Snsr NOT Connected (7218h)
801	12V Snsr Over Current (7220h)
800	12V Snsr Low Current (7221h)

CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

DIAGNOSTICS (CONTINUED)

A list of FINN codes is shown below.

FINN Code	Problem
810	12V Snsr Voltage OOR (7230h)
811	12V Snsr Ref Voltage OOR (7231h)
1620	Snsr Offset Cal Wrong Dir (7250h)
1621	Snsr Offset Cal No Rotate (7251h)
1622	Snsr Offset Cal Low VDC (7252h)
301	Speed High or Over Limit (8060h)
308	AC Current Control Error (8090h)
309	AC Current Measure Error (80A0h)
320	Frequency Above 599 Hz (80B0h)
1205	CAN Map Error (8100h)
1200	Pdo1 Timeout (8101h)
1201	Pdo2 Timeout (8102h)
1202	Pdo3 Timeout (8103h)
1203	Pdo4 Timeout (8104h)
1204	CAN Sync Timeout (8105h)

CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

DIAGNOSTICS (CONTINUED)

A list of FINN codes is shown below.

FINN Code	Problem
1206	Sdo1 Timeout (8110h)
1207	Sdo2 Timeout (8111h)
1208	Sdo1 Session Busy (8118h)
1209	Sdo1 Session Busy (8119h)
1406	Independent Watchdog Timeout (8400h)
1407	Windowed Watchdog Timeout (8401h)
1400	Power Out Reset (8403h)
1404	Brown Out Reset (8404h)
1409	Exec Time High 4 kHz (8410h)
1410	Exec Time High 50 Hz (8411h)
1411	Exec Time High Supervision (8412h)
1412	Exec Time High CAN (8413h)
1413	Exec Time High Slow App (8414h)
1414	Exec Time High Fast App (8415h)
1415	Exec TIME MOD High Slow App (8416h)

CONTROL PANEL GUIDE AND SYSTEM OPERATION (CONTINUED)

DIAGNOSTICS (CONTINUED)

A list of FINN codes is shown below.

FINN Code	Problem
1416	Exec Time Mod High Fast App (8417h)
1901	Startup Test Failed (8420h)
1450	Internal Error (8450h)
1460	Clock Failure (8451h)
1451	Boot Internal Error (8452h)

CREW MEMBERS AND THEIR DUTIES

1. The Operator controls the flow of the mulch.
2. The Loader(s) - anyone responsible for adding material directly into the dump bed.

THE MATERIAL-FEED SYSTEM

The material-feed system on the TailGator® has been designed to give fast and uniform mechanical feeding. The adjustable feeding rate and reverse control system allow the use of varied materials while obtaining maximum production. The system is an integration of the following two subsystems, both of which contribute to efficient material flow:

FEED CONVEYORS

The feed conveyors are responsible for loading the attachment with material. They simply move the material towards the center hole on the MTG where the material then falls onto the attachment.

ATTACHMENTS

- **XTL AND XTS**

The XTL and XTS are the main two attachments in the TailGator® system. They are both EXIT conveyors that distribute material into the selected distribution tool. The XTL is a 5 foot long conveyor while the XTS is a 3 foot long conveyor.

RADIO REMOTE TRANSMITTER

The TailGator® is equipped with a Remote Transmitter to control the MATERIAL START/STOP, the CONVEYOR SPEED INCREASE/DECREASE, the CONVEYOR DIRECTION and the ENABLE/DISABLE of the feed conveyors. It also contains an Emergency Stop (e-stop) button that will shut down the system.

To turn on the Radio Remote, twist and pull out the red machine stop button to release it to its UP position. Turn the radio remote on by pressing the **I** button. To utilize the remote, the system must be turned on at the display unit.

Turn the battery disconnect to the **ON** position. Turn the ignition key clockwise to the **RUN** position.

For additional information, see Control Guide section.

THE MATERIAL-FEED SYSTEM (CONTINUED)

MULCHING WITH THE TAILGATOR®

1. Check all areas listed under PRE-START EQUIPMENT CHECK section of this manual.
2. Make sure the area is clear behind the truck and that the EXIT conveyor will not hit anything then tilt the dump bed to an angle where the material slides against the FEED conveyors.
3. Start the system following all the steps listed under the STARTING PROCEDURE section of this manual.
4. Align the EXIT conveyor so that it will discharge into the material blower hopper or desired destination using the truck bed tilt and truck parked position. Adjust the angle of the EXIT conveyor so that it is at the desired position to discharge material.
5. Turn on the radio remote and start by setting the EXIT conveyor to 20% speed then press the **START/STOP** button to engage the EXIT conveyor first.
6. Set the FEED conveyors to 20% speed then press the **START/STOP** button to engage the FEED conveyors. Material should now be flowing.
7. Adjust feed rates to your desired level per your application using the **INCREASE** and **DECREASE** buttons.
8. To stop flow, first press the **START/STOP** button on the remote to disengage the FEED conveyors. Let the exit conveyor clear of material and then press the **START/STOP** button to disengage the EXIT conveyor.
9. Shut down the system. Ensure all moving parts of the unit have come to a complete stop.

TAILGATOR® ADJUSTMENTS

The TailGator® has been designed to be as simple as possible to operate. Knowing what speeds to set the FEED and EXIT conveyors is crucial in maximizing the machine's operational efficiency. There are several adjustments to optimize material flow and help with certain situations. They include the following:

A. FEED RATES

Adjust the feed rates to optimize the flow rate of your material to your intended destination. Balancing the speed of the FEED conveyors in relation to the EXIT conveyors ensures you do not overload your EXIT conveyor and cause a jam. Be sure to run the EXIT conveyor at a speed in which it does not allow it to get overloaded by the FEED conveyors.

B. REVERSE/FORWARD

The reverse function is only intended to be used to clear jams, troubleshooting, and/or maintenance. It is not recommended to run any conveyor in reverse while loaded with material.

C. ENABLE/DISABLE FEED CONVEYORS

The Enable/Disable conveyor function is also used mainly as a tool during maintenance and troubleshooting. It allows one feed conveyor to run at a time if desired

D. EXIT CONVEYOR ANGLE

The angle is adjustable on the EXIT conveyor allowing the operator to optimize where the material is being distributed. It is adjusted based on the angle of tilt of the dump bed and by utilizing the six angle adjustment positions on the exit conveyor.

CLEARING A JAM

If the unit becomes plugged and the machine cannot clear itself, immediately shut down the conveyors, either by pressing the emergency stop on the Radio Remote Transmitter or the Main Control Panel. Allow TailGator® to come to a stop. Shut down the system and allow all moving components to stop. Ensure the key is set to the **OFF** position and the battery disconnect is the **OFF** position. Perform the following steps for clearing a blockage.

- **EXIT CONVEYOR JAMMED**

1. The most likely cause of the jam is the EXIT conveyor being overloaded with material.
2. Use a tool or remove by hand all the material on the EXIT conveyor.
3. Try to rotate the conveyor by hand by pulling on the belt cleats.
4. Repeat steps 2 and 3 until free rotation is observed.
5. If this does not work, loosen the belt and clear all material from under the belt. (See maintenance section for proper belt adjustment.)
6. Check again for free rotation by hand.
7. Restart the machine, then run the conveyors at 100% to clear out any remaining material.

- **FEED CONVEYOR(S) JAMMED**

1. If a FEED conveyor is jammed, it most likely can be fixed by running the belt in reverse.
2. Ensure all conveyors are stopped.
3. Remove any material against the conveyor.
4. Disengage the non-jammed FEED conveyor.
5. Set the speed to 50% and put the FEED conveyor in reverse.
6. Alternate between forward and reverse as needed until the jam is cleared.
7. Once the jam is cleared, run the conveyor at 100% to clear out any remaining material until smooth.

Troubleshooting Chart		
Symptom	Probable Cause	Suggested Solutions
Unit will not turn on when turning the key	Disconnect not turned on	Make sure disconnect is in the ON position.
	Fuse blown	Check all fuses for any blown fuse. Look for short in that harness if a blown fuse is found before replacing.
	Battery not charged.	Ensure battery is at least 20% charged.
	Faulty wiring	Check the wire harnesses for shorts or damage.
Remote not working	E-stop engaged	Ensure E-stop is not engaged on top of the remote and the ON button is pressed.
	Radio remote offline	Check the COMMS screen to see if the receiver is ONLINE . If showing OFFLINE , check can bus wiring.
	Radio not charged	Ensure remote is charged using the 12V charger inside the electrical box door.
Feed conveyor(s) not turning	Harness disconnected	Check to see that all harnesses are attached.
	Component offline	Make sure all components are ONLINE on the COMMs screen.
	0 percentage set for speed	Make sure you increase the speed using the main display or remote to at least 10 percent.
	LH or RH conveyor disengaged	With the feed conveyors started and at least 10 percent or greater speed selected, press the ENGAGE/DISENGAGE buttons on both conveyors until rotating.
	Conveyor jammed	Check MOTOR screen for both LH and RH feed conveyors to see if there is current and torque reading present. If so, shut down entire machine and see "Clearing a Jam" section.

Troubleshooting Chart (Continued)		
Symptom	Probable Cause	Suggested Solutions
Exit conveyor not turning	Harness disconnected	Check to see that all harnesses are attached.
	Component offline	Make sure all components are ONLINE on the COMMs screen.
	0 percentage set for speed	Make sure you increase the speed using the main display or remote to at least 10 percent.
	Conveyor jammed	Check MOTOR screen for EXIT conveyors to see if there is current and torque reading present. If so, shut down entire machine and see "Clearing a Jam" section.

MAINTENANCE



CAUTION *Turn system OFF and disconnect battery before removing any guards, access panels or working near the conveyors. Failure to comply could result in minor personal injury, product damage, or property damage*

DAILY OR AFTER EVERY 4 TO 8 HOURS OF OPERATION (WHICHEVER COMES FIRST)

1. Open feed conveyor access doors and clear out any built-up material inside.
2. Check main battery level. Charge if needed.
3. Check remote battery level. Charge if needed.
4. Check wire harnesses for damage.

WEEKLY OR AFTER EVERY 50 HOURS OF OPERATION (WHICHEVER COMES FIRST)

1. Lubricate the idle roller bearings on both ends and sides of the feed and exit conveyors. Wipe each bearing before lubrication to remove any accumulated dirt and prevent overheating.
2. Blow out feed conveyors through access doors and exit conveyor with dry compressed air. Do not use a pressure washer, as this will damage the motors.
3. Remove and clean or replace air cleaner elements on the engine and rotary blower. To clean elements, use clean compressed air.
4. Check the oil level in the airlock gearbox. Add or replace if necessary.
5. Check the gear case on the blower (see Lubrication Chart information).
6. Check the tension and tracking on the exit and feed conveyors.
 - Adjust tension using a $\frac{3}{4}$ " wrench to break loose the jam nut and then tighten the tensioning nut evenly on both sides of the conveyor idler roller. Adjust so when picking up the belt by hand, there is no more than a 1/8th of inch of rise.
 - Fine tune the tracking by running each belt one at a time and observing any shift up/down or left/right. If tracking needs adjustment, tighten the side of the belt that the belt is tracking towards 1/8th of a turn at a time, checking the tracking each time until the belt stays centered.
7. Check belts for wear and/or damage.
8. Blow out electrical cabinet with dry, clean compressed air.

MAINTENANCE (CONTINUED)

EVERY 6 MONTHS OR 500 HRS OF OPERATION (WHICHEVER COMES FIRST)

- Lubricate chain drive of EXIT conveyor.
 1. Remove the exit conveyor from the vehicle.
 2. Remove the chain guard and lubricate the chain using a chain lubricant.
 3. Reassemble.
- Lubricate chain drive and drive roller bearings on FEED conveyors.
 1. Remove the MTG from vehicle.
 2. Lay MTG facedown on a properly rated work table with the interior of the conveyors facedown.
 3. Remove the top bolts on either side of the tailgate frame.
 4. Remove the inner crossmember bolts on each of the two crossmembers.
 5. Remove the six bolts going into each of the feed conveyors, being careful with the last two bolts as the top of the frame will now be loose.
 6. Set top frame aside.
 7. Remove the remaining three bolts in each of the side frames and set aside the side frames.
 8. Remove the six bolts going into each of the feed conveyors, being careful on the last two bolts as the bottom of the frame will now be loose.
 9. You can now remove the bolts holding the feed conveyor mounting brackets in on both sides of the conveyor. You only need to remove the cover over the chain side of the conveyor. The LH conveyor will have the motor on the bottom side and the RH conveyor will be on the top side.
 10. Lubricate the chain using a chain lubricant.
 11. While apart, check for any wear or damaged components.
 12. Lubricate all bearings.
 13. Reassemble.

WINTER SHUTDOWN AND STORAGE

1. Blow all material out of machine, turn key **OFF**, set battery box disconnect to **OFF** and lockout switch for safety.
2. Store machine inside.

TAILGATOR® LUBRICATION

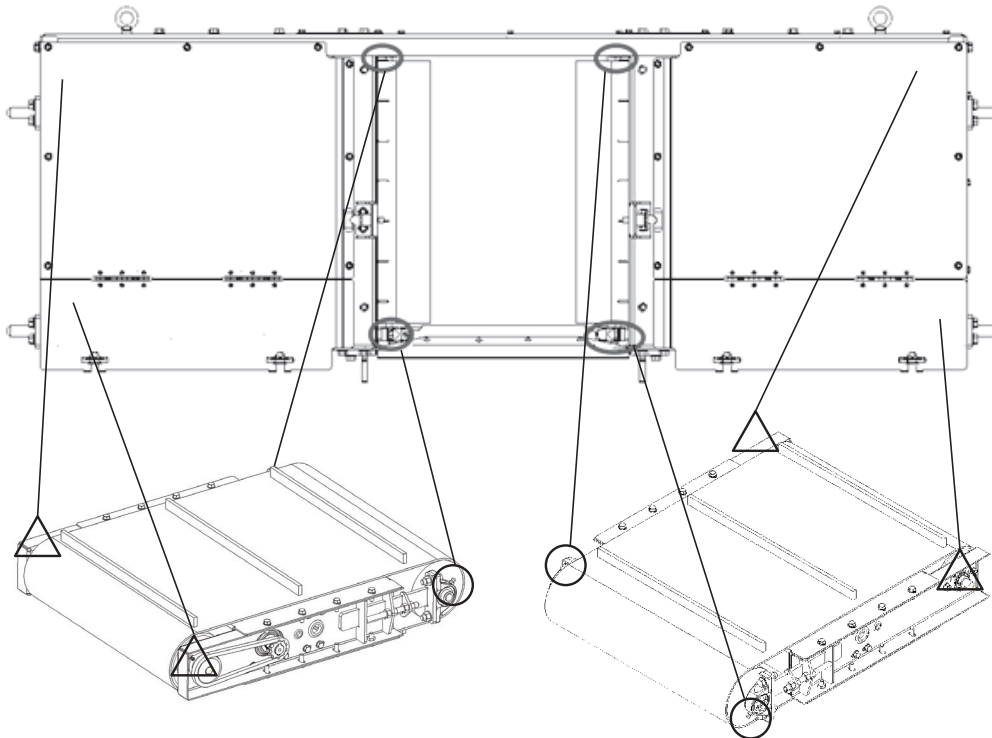
Follow the maintenance schedule above for greasing intervals. Lubricate all bearings using Lithium, 225 ISO Viscosity Grade on a manual grease gun. There are bearings on each roller at both ends.

⚠ WARNING *Never attempt to add lubrication while the TailGator® is running. Failure to heed this warning could result in damage to the equipment or personal injury.*

TAILGATOR® LUBRICATION FILLING PROCEDURE

1. Grease points are indicated below.
2. Remove plastic cap from fitting.
3. Pump five pumps of lithium-based mineral grease into each fitting.
4. Wipe off excess grease from fitting.
5. Replace cap on fitting.

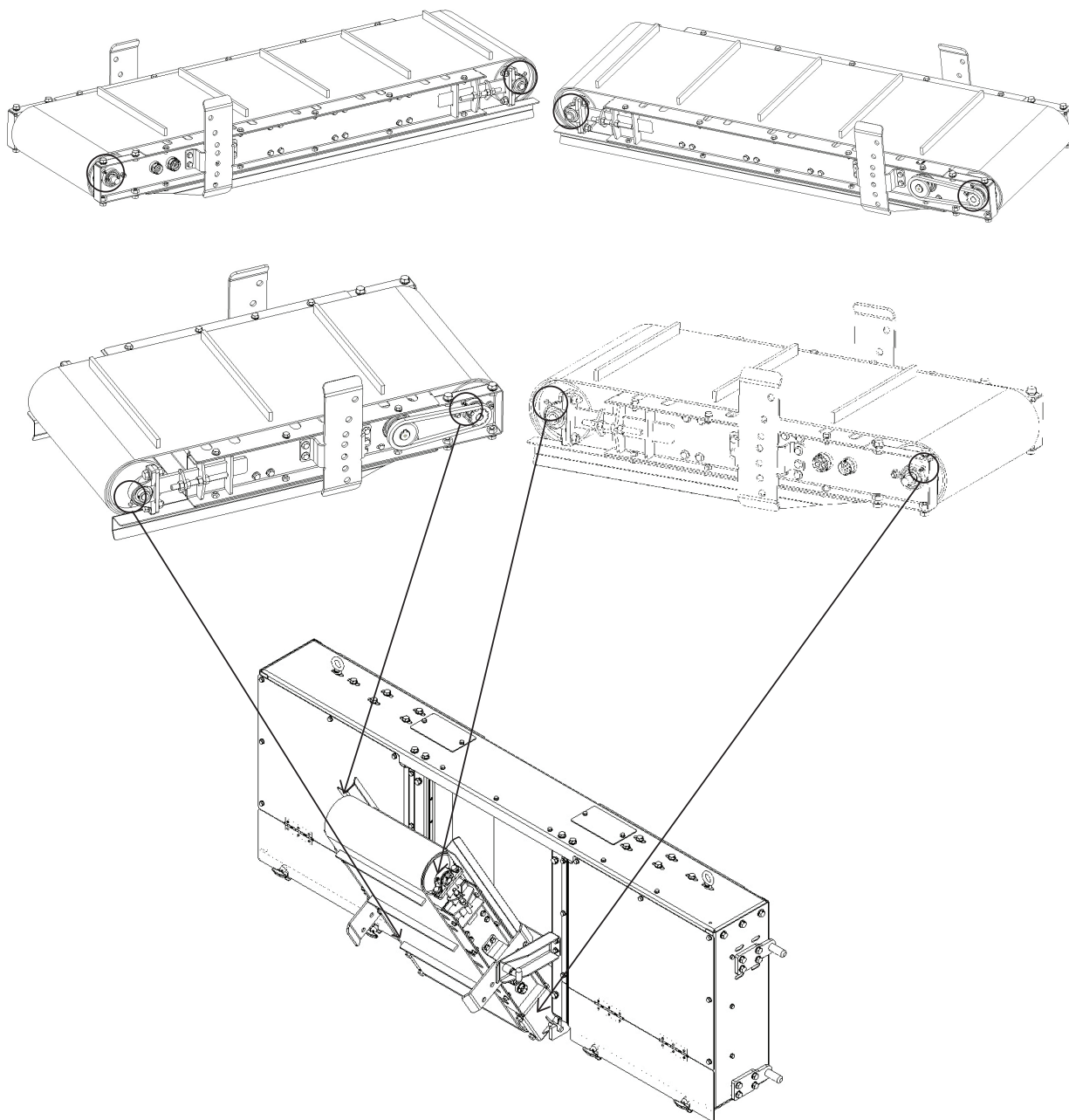
FEED CONVEYORS



TIME KEY

-
- Weekly (40 hours)
△ Seasonally (500 hours)

EXIT CONVEYORS



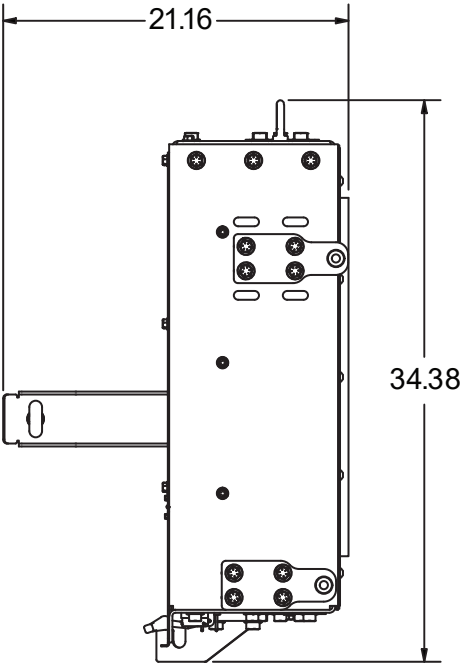
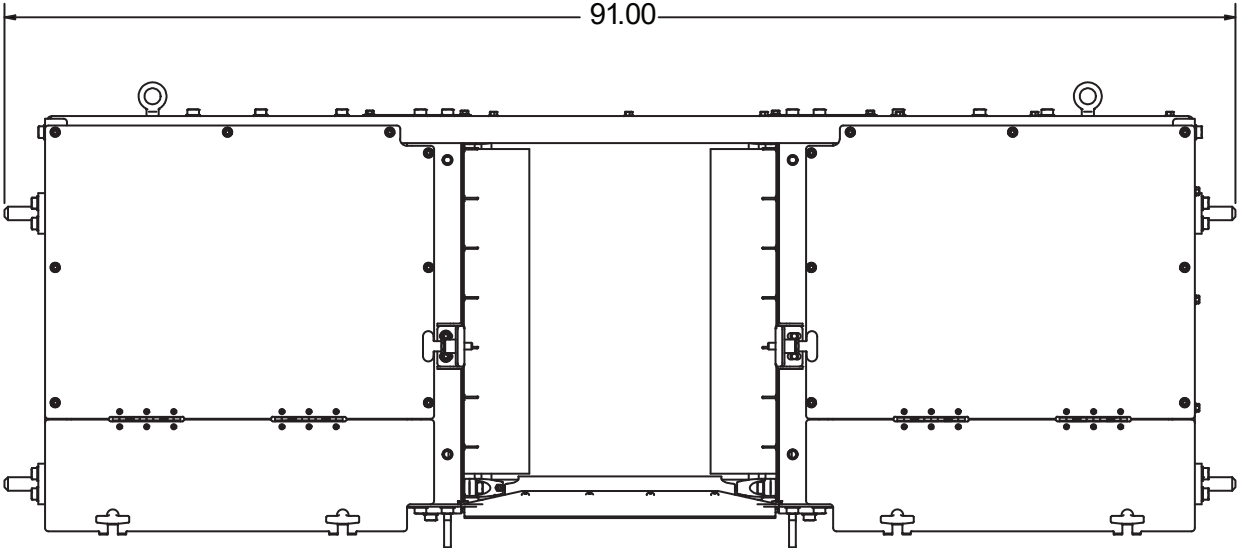
TIME KEY

- Weekly (40 hours)
- △ Seasonally (500 hours)

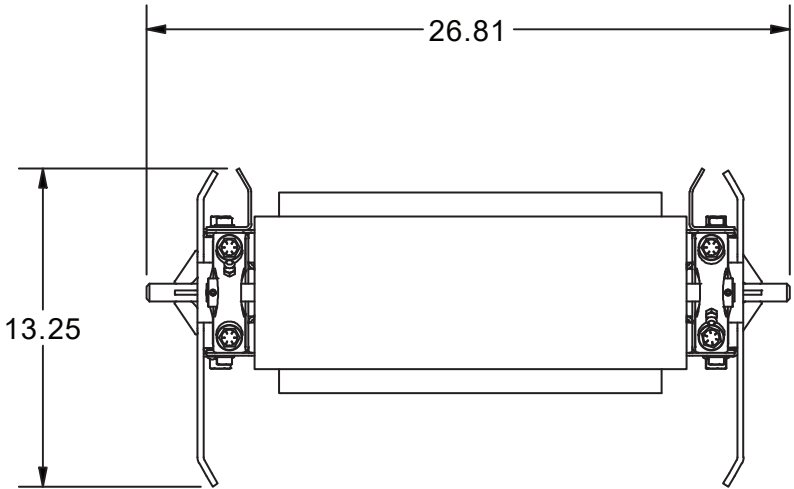
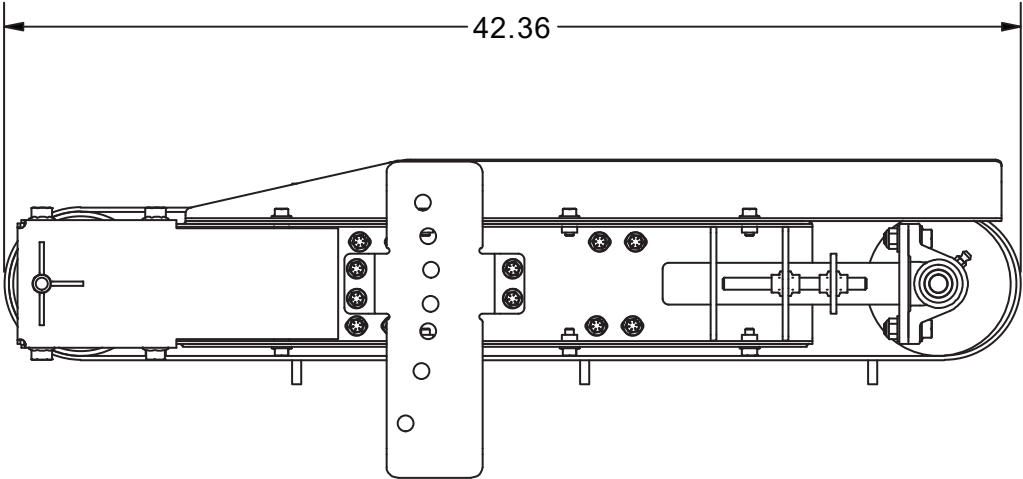
FINN TAILGATOR® TECHNICAL SPECIFICATIONS

POWER	Single 3.5 kWh Vanguard, 24 VDC, Lithium-ion battery
BATTERY RUN TIME	4-8 Hrs. (speed-dependent)
CHARGING.....	120 VAC 50-60 Hz (6 hours)
BATTERY LIFE CYCLE	Rated for 2,000 charge cycles to 80% batt. Life
ELECTRIC MOTORS	Discharge Distance: up to 48" from end of conveyor
OPERATION	3 Independently controlled conveyors operated by a 4.3" display screen and 12 function radio remote control with up to 300' range
DIMENSIONS	84" w x 30" h
MOUNTING	Bolt on side pins to fit to mason body Class 3-6 truck
EMPTY WEIGHT*	
MTG	670 lbs. (305 kg)
XTS	200 lbs. (91 kg)
XTL.....	256 lbs. (116 kg)

FINN TAILGATOR® TECHNICAL SPECIFICATIONS

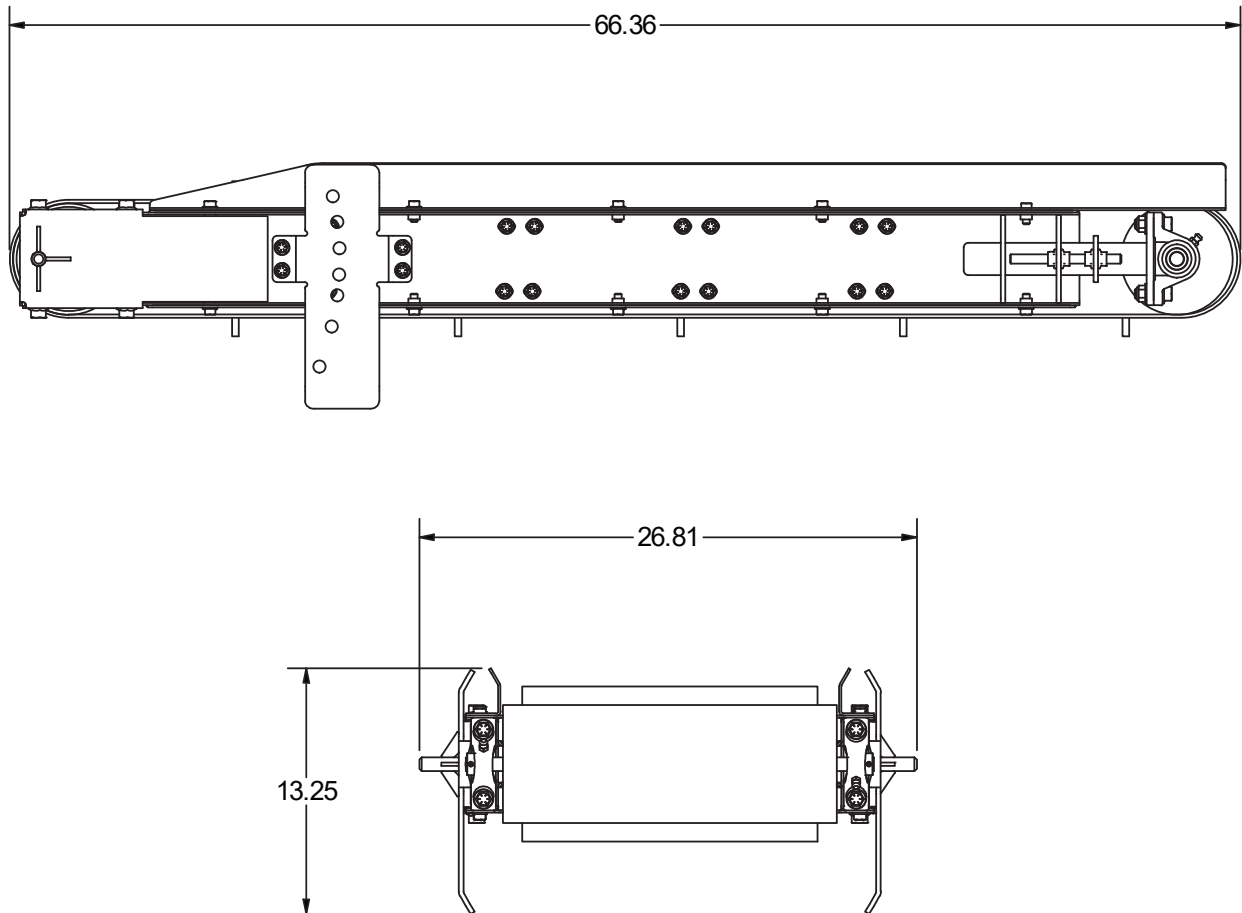


FINN TAILGATOR® TECHNICAL SPECIFICATIONS
XTS



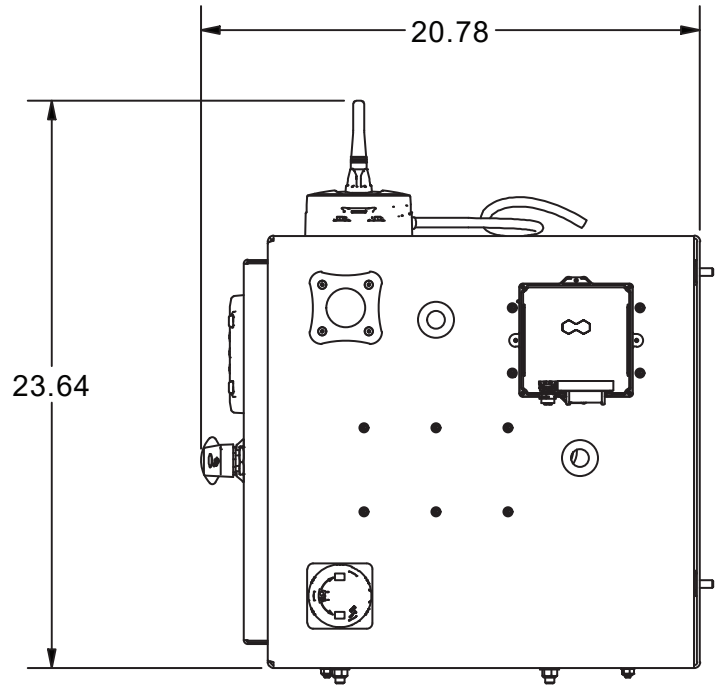
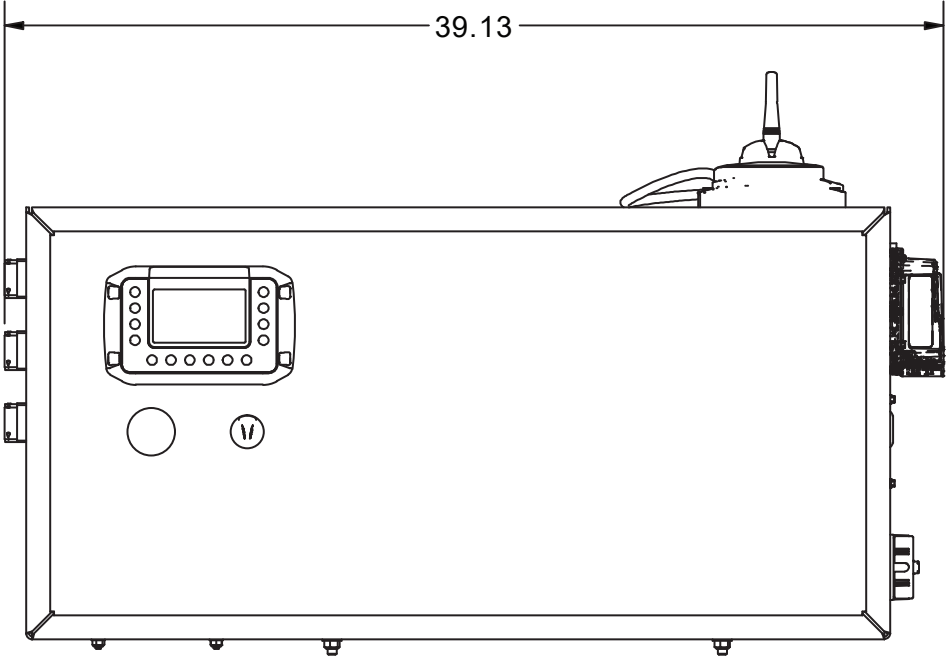
FINN TAILGATOR® TECHNICAL SPECIFICATIONS

XTL



FINN TAILGATOR® TECHNICAL SPECIFICATIONS

ELECTRICAL BOX



NOTES

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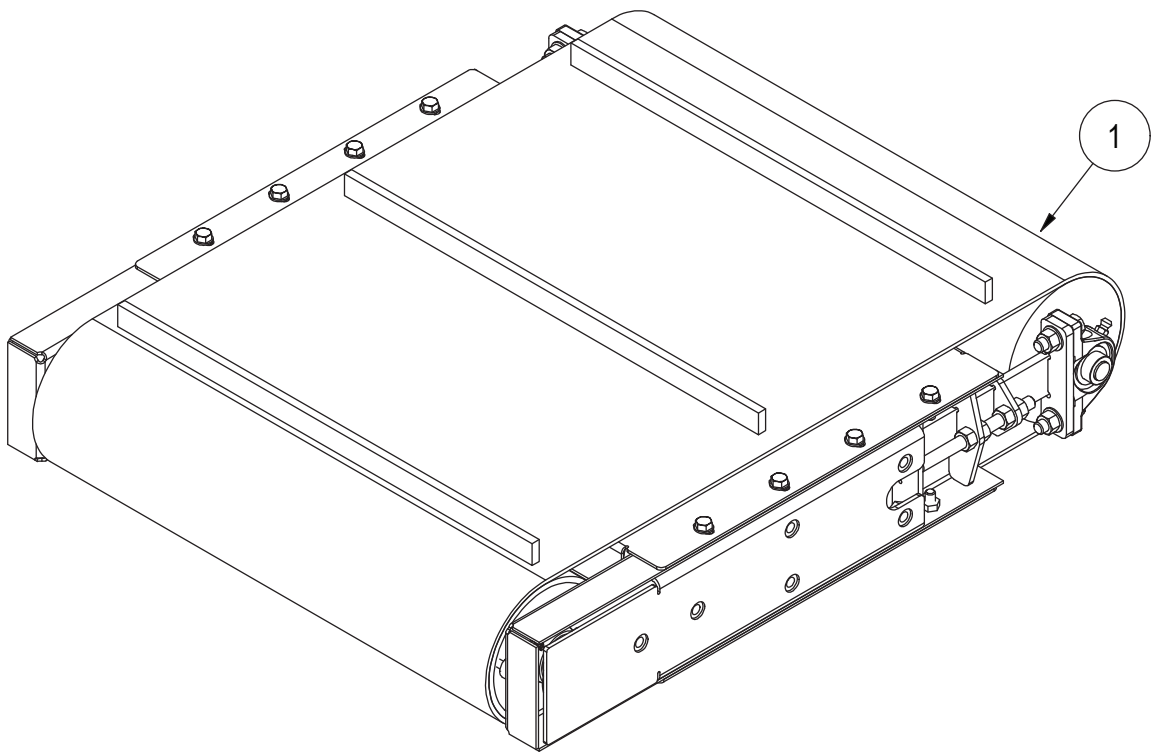
NOTES

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TAILGATOR®

Parts Manual

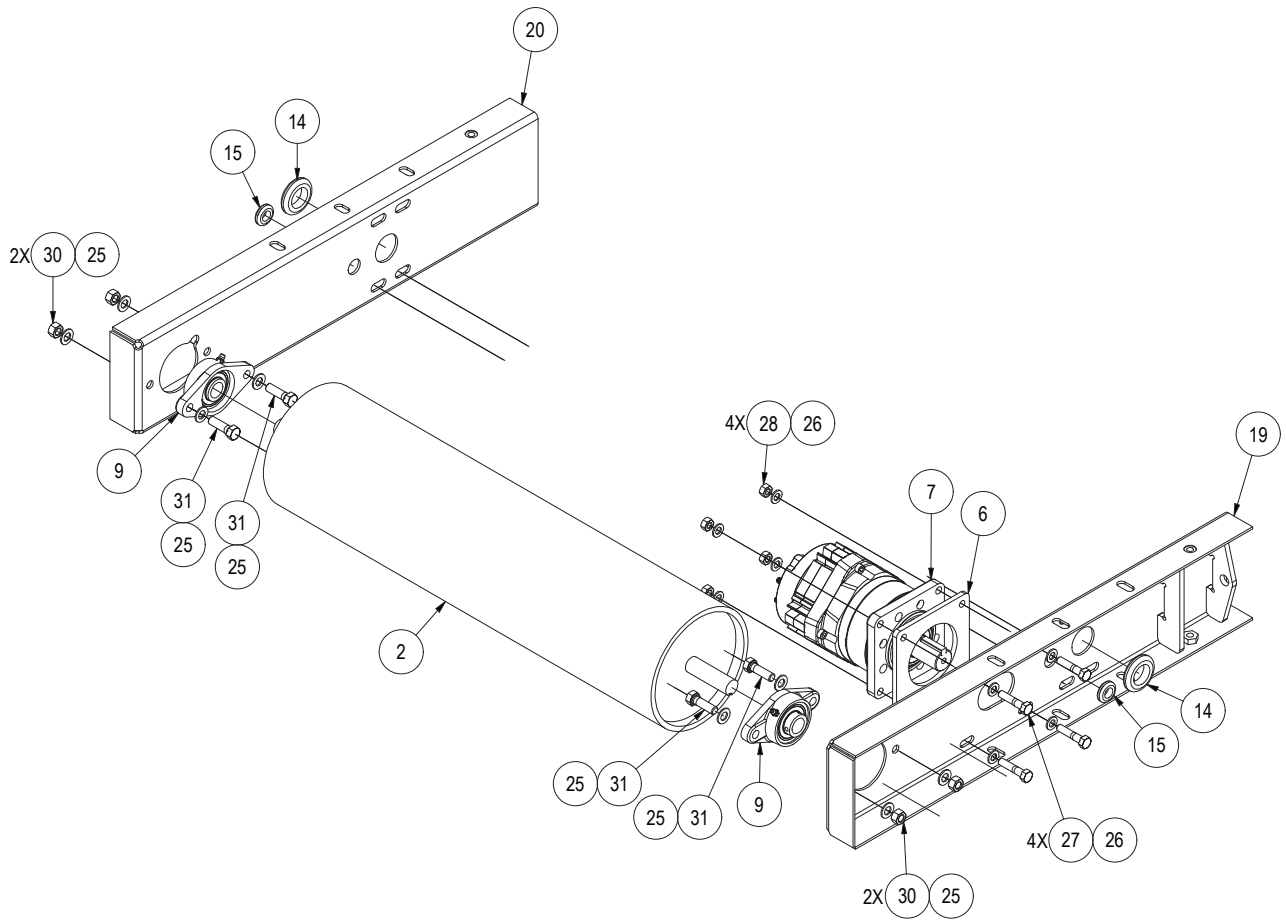
**WHEN ORDERING PARTS, BE SURE TO STATE
SERIAL NUMBER OF MACHINE**



FEED CONVEYOR TAILGATE ASSEMBLY

Ref. No.	Part Number	Description	No. Req'd
1	B0971-001	BELT, FEED CONVEYOR B107E86C76	1

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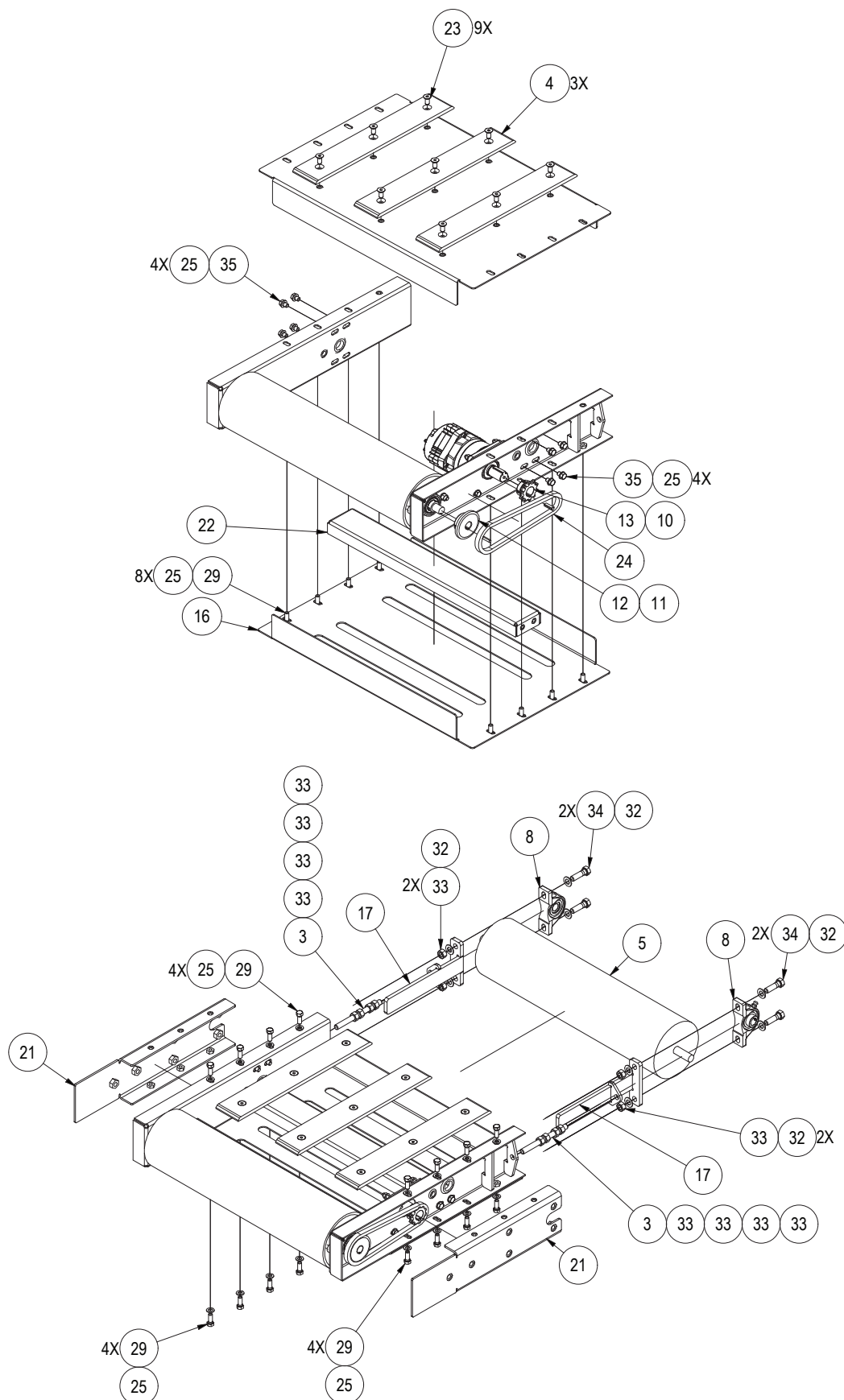
FEED CONVEYOR TAILGATE ASSEMBLY (CONT)

Ref. No.	Part Number	Description	No. Req'd
2	B0973-001	Roller, Drive Feed Conv. N105d8e3f0	1
6	B0877-001	Plate Motor Mount Feed	1
7	B0969-001	Motor Feed Conv - 50:1 Gr	1
9	B0963-001	Ucfl204-12 Bearing Ball, 3/4" Bore 2 Bolt	2
14	B1065-001	Grommet Push In Rubber 1.375" Hole 9600k325	2
15	B1064-001	Grommet Push In Rubber 3/4" Hole 95053a301	2
19	B0974-001	Wldmt, Feed Conv Side 1	1
20	B0975-001	Wldmt, Feed Conv. Side 2	1
25	●	Plain Washer (Inch)Type A and B	8
26	●	Plain Washer (Inch)Type A and B	9
27	●	Hex Bolt - Unc (Regular Thread - Inch)	4
28	●	Hex Nuts (Inch Series) Hex Nut	4
30	●	Hex Nuts (Inch Series) Hex Nut	4
31	●	Hex Bolt - Unc (Regular Thread - Inch)	4

KITS AND MARKERS

- Standard Hardware Item - Available at your local hardware store.

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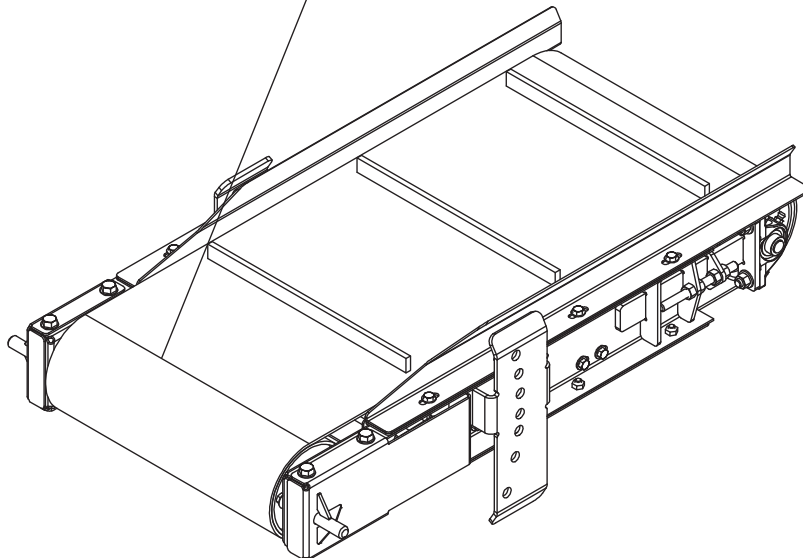
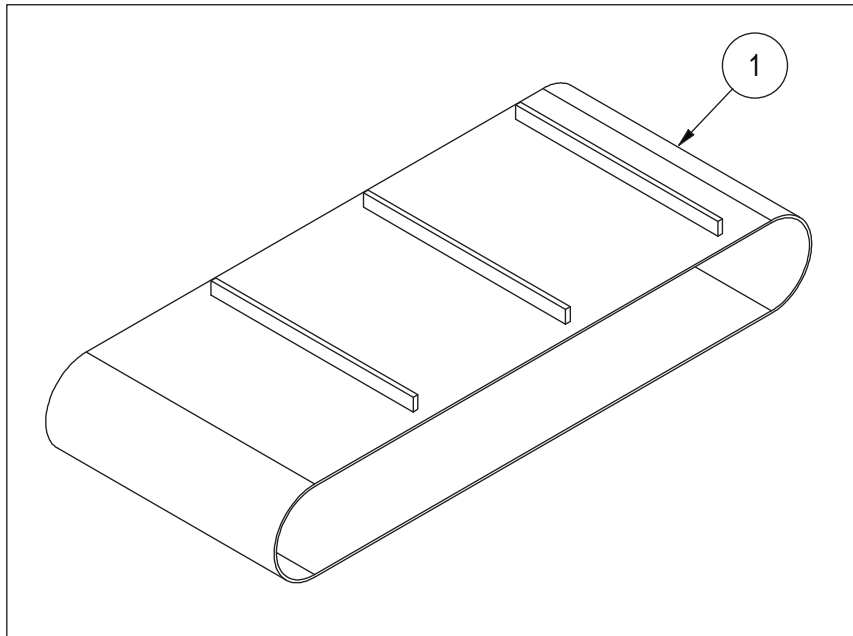


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FEED CONVEYOR TAILGATE ASSEMBLY (CONT)

Ref. No.	Part Number	Description	No. Req'd
3	B0946-001	Rod, Med Str Ptfе Coat 1/2"-13 Thread Size, 6" Lg	2
4	B0875-001	UHMW, Wear Pad Feed Belt	3
5	B0972-001	Roller, Idler Feed Conv. N10558127D	1
8	B0962-001	6361K34 Bearing Cast Ball With Grease	2
10	B1059-001	Key Stock, Step 5/16x1/8" McMaster 92271a514	1
11	B1060-001	Key, 3/16"X3/16"X1" Rounded McMaster 95053a301	1
12	B0968-001	Sprocket, 6280k902 Ansi 50, 13 Teeth, .75"Shaft	1
13	B0970-001	Sprocket, 6280k874 Ansi 50, 10 Teeth, 1"Shaft	1
16	B0876-001	Plate Formed Feed Conv Back	1
17	B0884-001	Wldmt, Tensioner 1	2
21	B0976-001	Wldmt, Feed Conv. Cover 1	2
22	B0977-001	Wldmt, Feed Conv. Backing	1
23	●	Hexagon Socket Flat Countersunk Head Cap Screw	9
24	B1062-001	Chain, Feed ANSI 50 McMaster 6261K175	1
25	●	Plain Washer (Inch)Type A and B	16
29	●	Hex Bolt - Unc (Regular Thread - Inch)	16
32	●	Plain Washer (Inch)Type A and B	8
33	●	Hex Nuts (Inch Series) Hex Nut	12
34	●	Hex Bolt - Unc (Regular Thread - Inch)	4
35	●	Hex Bolt - Unc (Regular Thread - Inch)	8
NOT SHOWN			
	B0885-001	Wldmt, Feed Conv. Backing	1
KITS AND MARKERS			
	●	Standard Hardware Item - Available at your local hardware store.	

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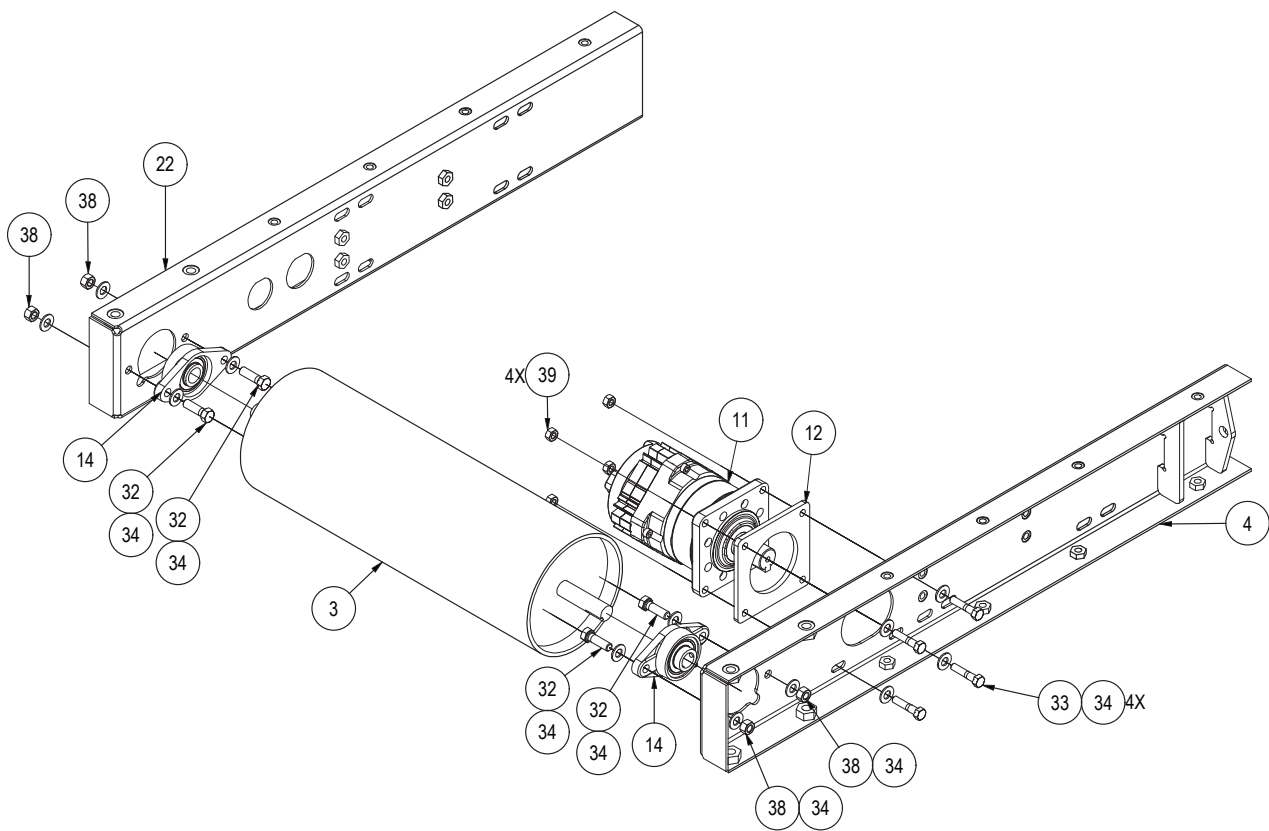


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XTS CONVEYOR

Ref. No.	Part Number	Description	No. Req'd
1	B1061-001	Belt, Exit Conveyor 3' Stitched B107258680	1

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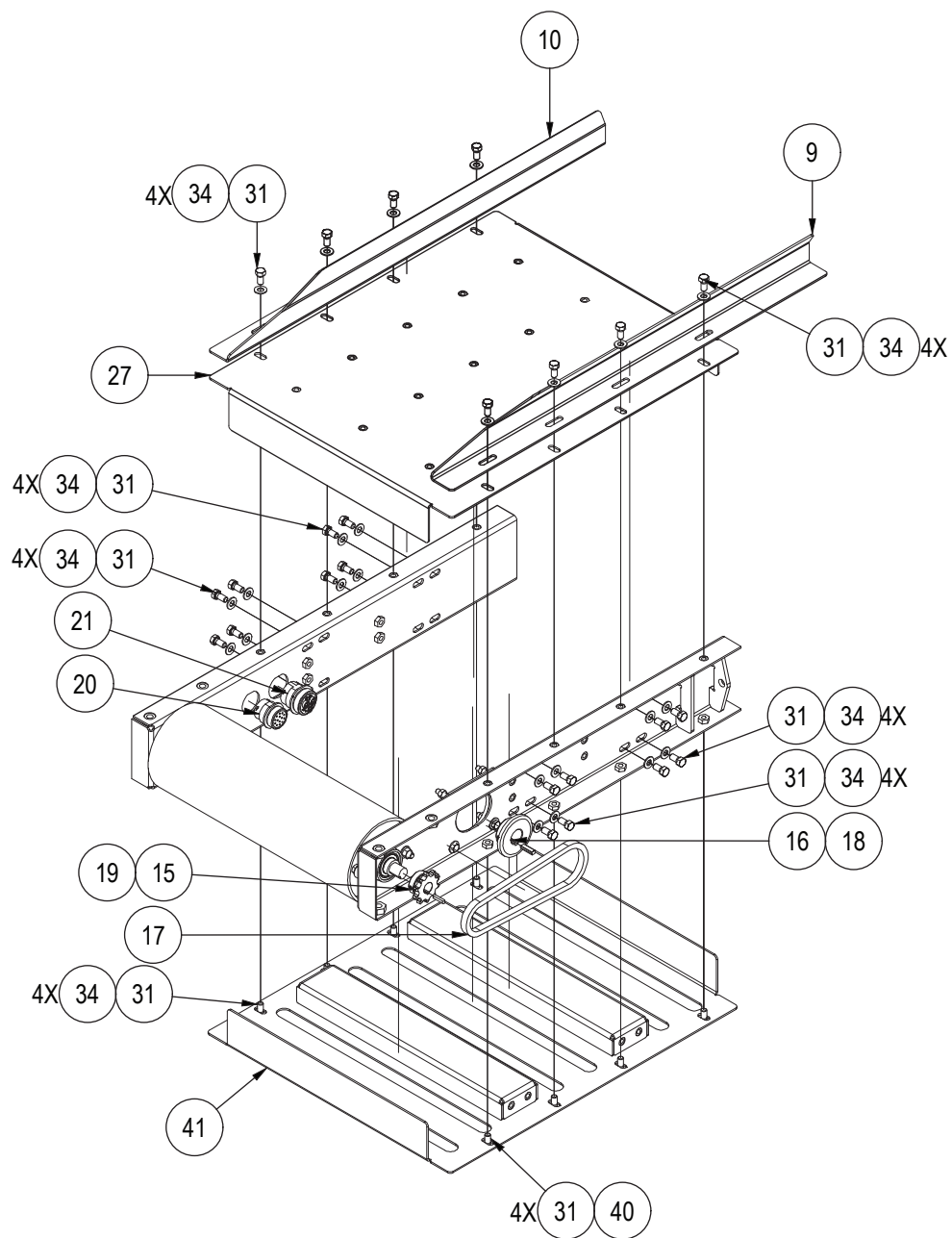
XTS CONVEYOR (CONT)

Ref. No.	Part Number	Description	No. Req'd
3	B0965-001	N10556FED6 Exit Drive Roller 6" Dia Key Shaft	1
4	B0899-001	Wldmt Formed Main Conv. Side 2	1
5	B0946-001	Rod, Med Str Ptfе Coat 1/2"-13 Thread Size, 6" Lg	2
8	B0897-001	Plate, Formed Angle Adjust 2	1
10	B0938-001	Plate, Formed Short Conv 2	1
11	B0966-001	Motor Exit Conv - 11:1 GR	1
12	B0877-001	Plate Motor Mount Feed	1
14	B0963-001	Ucf1204-12 Bearing Ball, 3/4" Bore 2 Bolt	2
13	B0962-001	6361K34 Bearing Cast Ball With Grease	2
16	B0967-001	Sprocket, 6280K904 ANSI 50, 13 Teeth, 1"Shaft	1
17	B1058-001	Chain, Exit ANSI 50 MCMaster 6261K175	1
21	B1081-001	Conn, Amphenol 7 Pos Socket 4-20AWG	1
22	B0895-001	Wldmt Formed Main Conv. Side 1	1
23	B0884-001	Wldmt, Tensioner 1	2
24	B0934-001	Wldmt, Conveyor Mount Pin Base	1
25	B0936-001	Wldmt, Pulley Drive Cover	1
29	●	Hex Bolt - Unc (Regular Thread - Inch)	4
32	●	Plain Washer (Inch)Type A and B	8
33	●	Hex Bolt - Unc (Regular Thread - Inch)	4
34	●	Plain Washer (Inch)Type A and B	47
35	●	Plain Washer (Inch)Type A and B	8

KITS AND MARKERS

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XTS CONVEYOR (CONT)

Ref. No.	Part Number	Description	No. Req'd
9	B0937-001	Plate, Formed Short Conv 1	1
10	B0938-001	Plate, Formed Short Conv 2	1
15	B1057-001	Sprocket 6280k872 Ansi 50 10 Teeth 0.75" Shaft	1
16	B0967-001	Sprocket, 6280k904 Ansi 50, 13 Teeth, 1"Shaft	1
17	B1058-001	Chain, Exit Ansi 50 McMaster 6261K175	1
18	B1059-001	Key Stock, Step 5/16x1/8" McMaster 92271A514	1
19	B1060-001	Key, 3/16"X3/16"X1" Rounded McMaster 95053A301	1
20	B1080-001	Conn, Amphenol 14 Pos Socket 14-20AWG	2
21	B1081-001	Conn, Amphenol 7 Pos Socket 4-20AWG	1
27	B0943-001	FiNN Weldment (in) Template	1
31	●	Hex Bolt - Unc (Regular Thread - Inch)	40
34	●	Plain Washer (Inch)Type A and B	47
40	●	Plain Washer (Inch)Type A and B	5
41	B0944-001	Plate, Formed Conv Short Mid 2	1

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XTS CONVEYOR (CONT)

Ref. No.	Part Number	Description	No. Req'd
2	B0964-001	N105ABA362 Exit Idler Roller 6" Dia Key Shaft	1
5	B0946-001	Rod, Med Str Ptfе Coat 1/2"-13 Thread Size, 6" Lg	2
6	B0941-001	UHMW, Wear Pad Main Conv.	3
7	B0896-001	Plate, Formed Angle Adjust 1	1
8	B0897-001	Plate, Formed Angle Adjust 2	1
13	B0962-001	6361K34 Bearing Cast Ball With Grease	2
23	B0884-001	Wldmt, Tensioner 1	2
24	B0934-001	Wldmt, Conveyor Mount Pin Base	3
26	●	Hexagon Socket Flat Countersunk Head Cap Screw	15
29	●	Hex Bolt - Unc (Regular Thread - Inch)	4
30	●	Plain Washer (Inch)Type A and B	8
31	●	Hex Bolt - Unc (Regular Thread - Inch)	40
34	●	Plain Washer (Inch)Type A and B	47
35	●	Plain Washer (Inch)Type A and B	8
36	●	Hex Bolt - Unc (Regular Thread - Inch)	8
37	●	Hex Nuts (Inch Series) Hex Nut	12
38	●	Hex Nuts (Inch Series) Hex Nut	4
39	●	Hex Nuts (Inch Series) Hex Nut	4

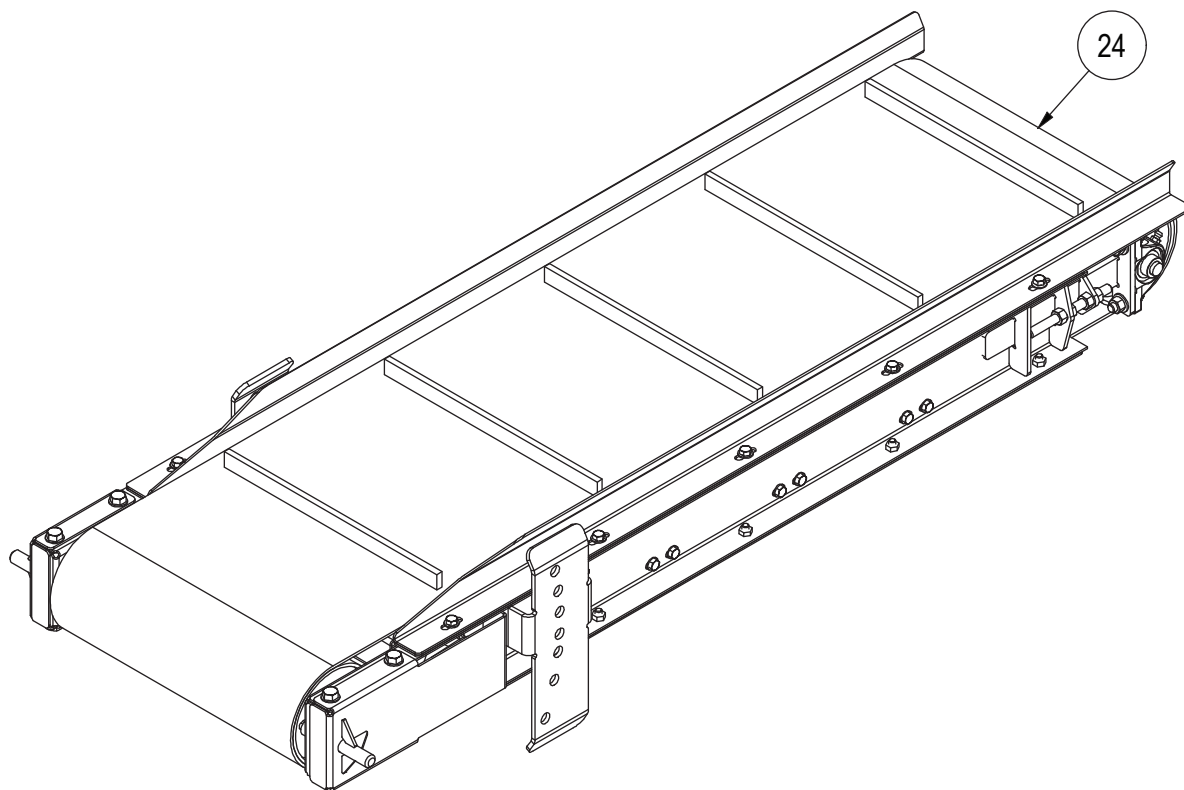
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	B0945-001	FiNN Weldment (in) Template	2
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KITS AND MARKERS

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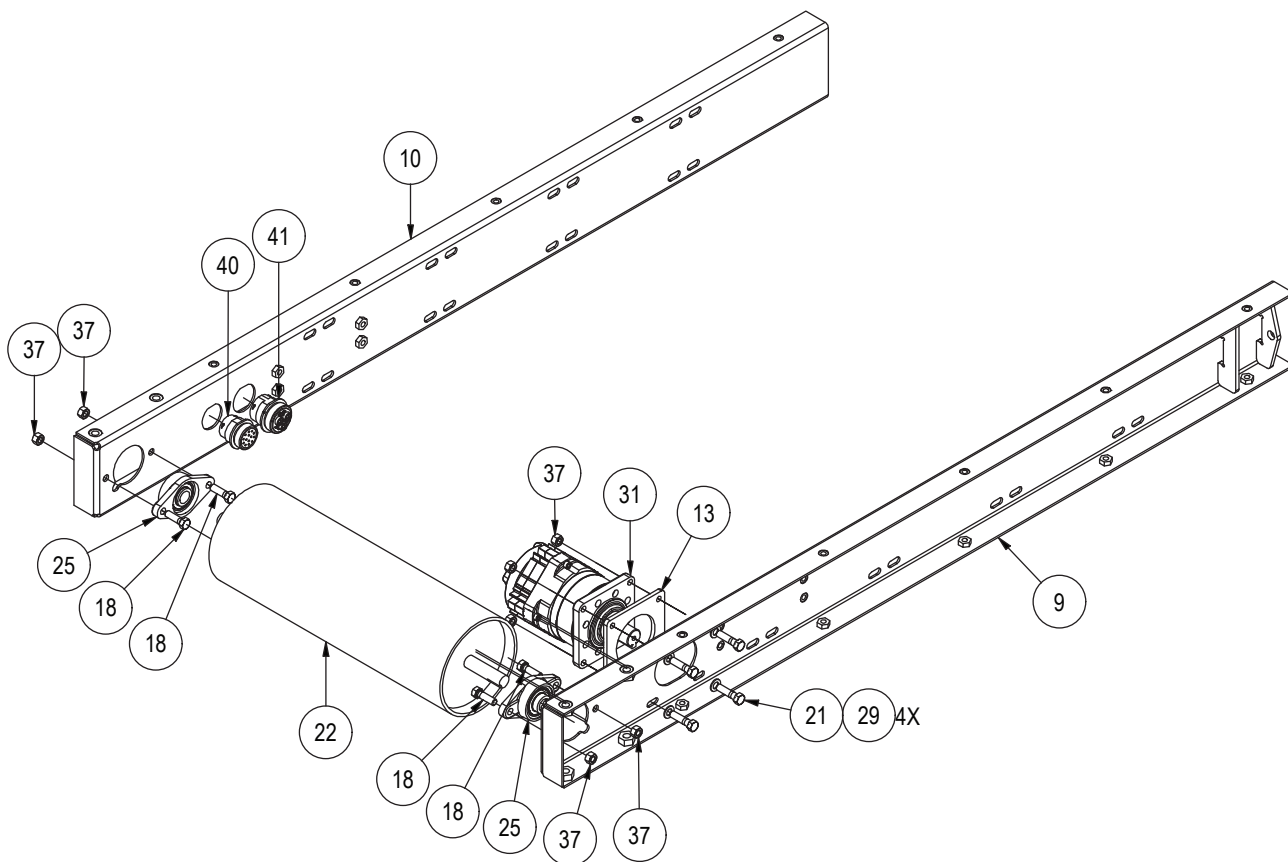
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XTL CONVEYOR

Ref. No.	Part Number	Description	No. Req'd
24	B0936-001	Wldmt, Pulley Drive Cover	1

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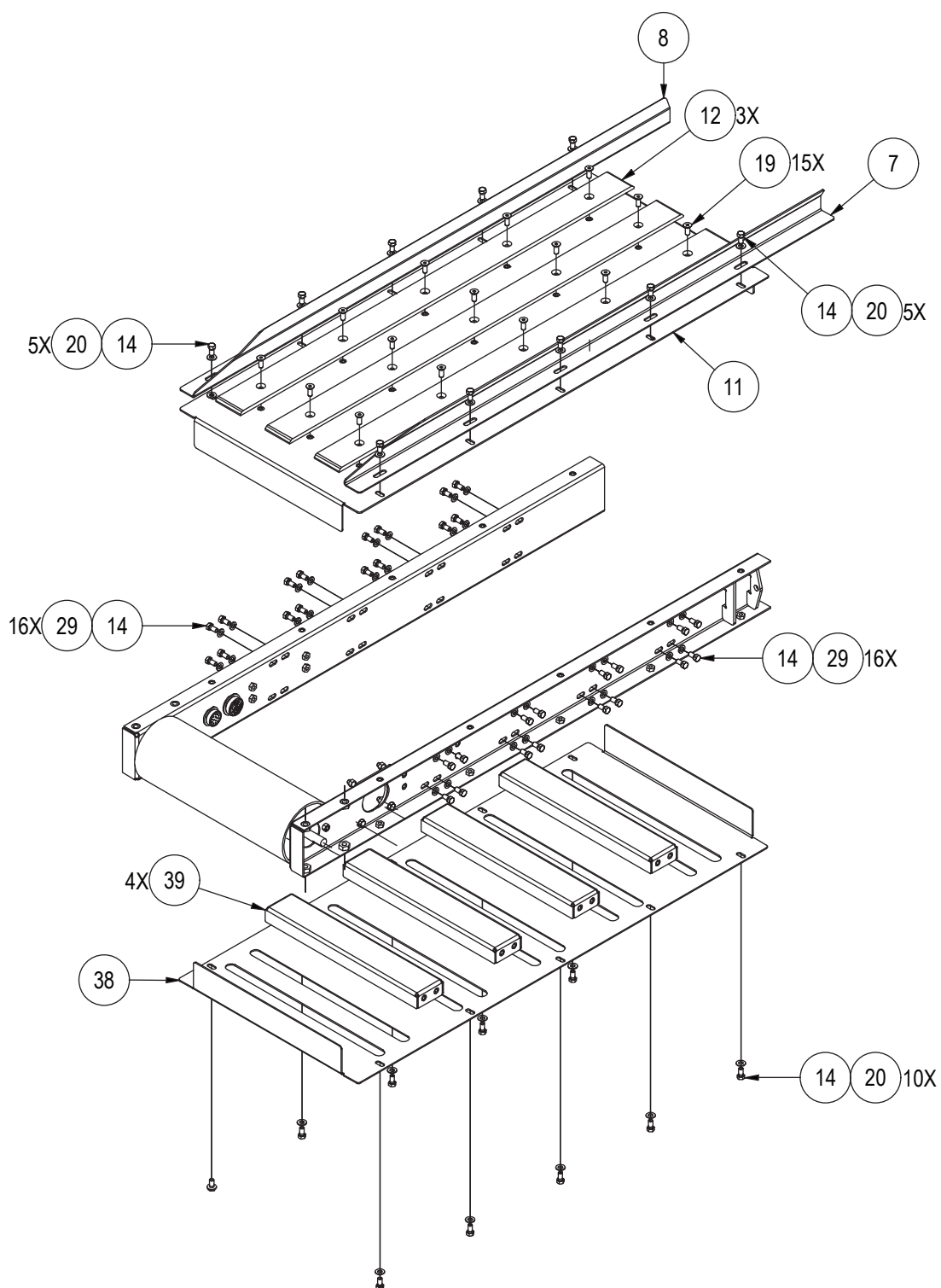
XTL CONVEYOR (CONT)

Ref. No.	Part Number	Description	No. Req'd
9	B0950-001	Wldmt Long Conv. Side 1	1
10	B0952-001	Wldmt Long Conv. Side 2	1
13	B0877-001	Plate Motor Mount Feed	1
18	●	Hex Bolt - Unc (Regular Thread - Inch)	4
21	●	Hex Bolt - Unc (Regular Thread - Inch)	4
22	B0965-001	N10556FED6 Exit Drive Roller 6" Dia Key Shaft	1
25	B0963-001	UCFL204-12 Bearing Ball, 3/4" Bore 2 Bolt	2
29	●	Plain Washer (Inch)Type A and B	44
31	B0966-001	Motor Exit Conv - 11:1 Gr	1
37	●	Hex Nuts (Inch Series) Hex Nut	8
40	B1080-001	Conn, Amphenol 14 Pos Socket 14-20AWG	1
41	B1081-001	Conn, Amphenol 7 Pos Socket 4-20AWG	1

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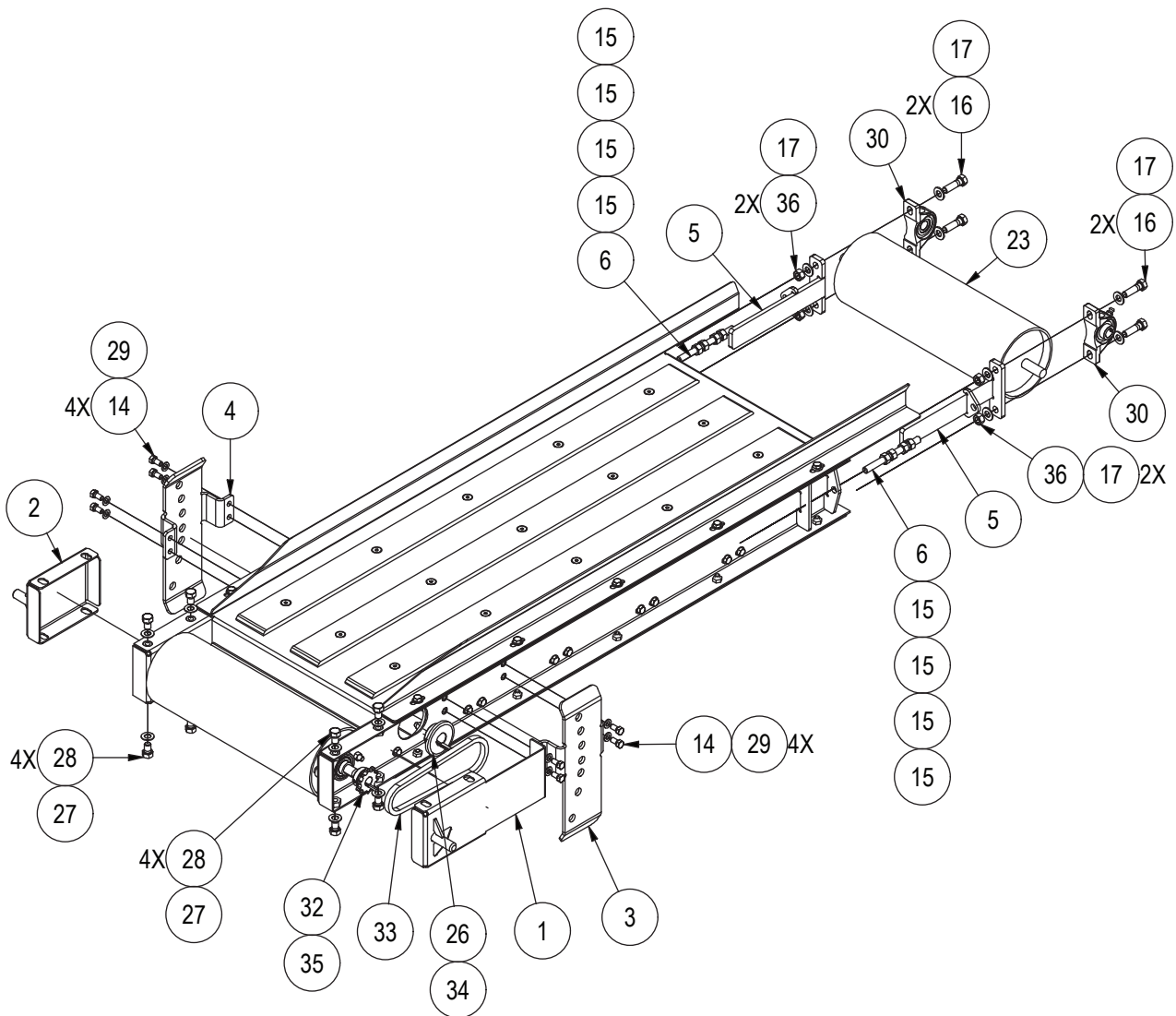
XTL CONVEYOR (CONT)

Ref. No.	Part Number	Description	No. Req'd
7	B0947-001	Plate Formed Long Lower Rail 1	1
8	B0948-001	Plate Formed Long Lower Rail 2	1
11	B0954-001	Wldmt, Conv Long Backing 1	1
12	B0955-001	UHMW Black Wear Strip Long	3
14	●	Hex Bolt - Unc (Regular Thread - Inch)	60
19	●	Hexagon Socket Flat Countersunk Head Cap Screw	15
20	●	Plain Washer (Inch)Type A and B	21
29	●	Plain Washer (Inch)Type A and B	44
38	B0956-001	Plate, Formed Conv Long Backing 2	1
39	B0945-001	FINN Weldment (in) Template	4

KITS AND MARKERS

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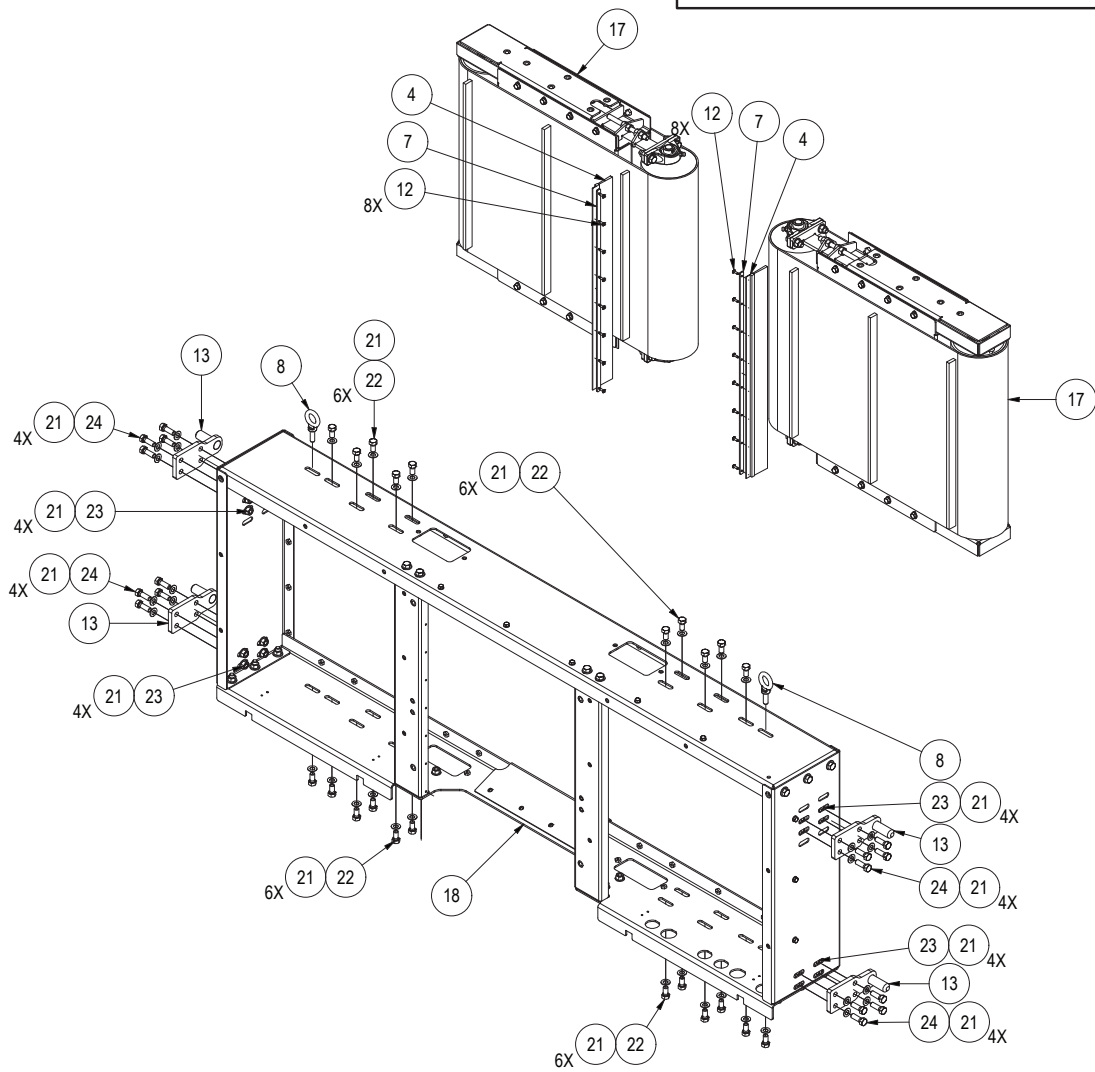
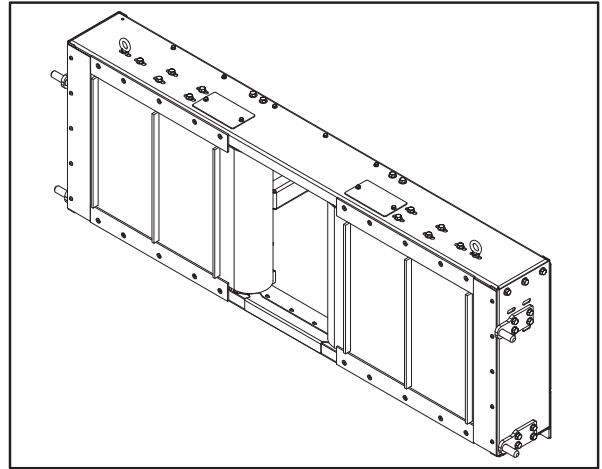
XTL CONVEYOR (CONT)

Ref. No.	Part Number	Description	No. Req'd
1	B0936-001	Wldmt, Pulley Drive Cover	1
2	B0934-001	Wldmt, Conveyor Mount Pin Base	1
3	B0896-001	Plate, Formed Angle Adjust 1	3
4	B0897-001	Plate, Formed Angle Adjust 2	1
5	B0884-001	Wldmt, Tensioner 1	2
6	B0946-001	Rod, Med Str Ptfе Coat 1/2"-13 Thread Size, 6" Lg	2
14	●	Hex Bolt - Unc (Regular Thread - Inch)	60
15	●	HexNut	8
16	●	Hex Bolt - Unc (Regular Thread - Inch)	4
17	●	Plain Washer (Inch)Type A and B	8
23	B0964-001	N105ABA362 Exit Idler Roller 6" Dia Key Shaft	1
26	B0967-001	Sprocket, 6280k904 Ansi 50, 13 Teeth, 1"Shaft	1
27	●	Plain Washer (Inch)Type A and B	
28	●	Hex Bolt - Unc (Regular Thread - Inch)	8
29	●	Plain Washer (Inch)Type A and B	44
30	B0962-001	6361K34 Bearing Cast Ball With Grease	2
32	B1057-001	Sprocket 6280k872 Ansi 50 10 Teeth 0.75" Shaft	1
33	B1058-001	Chain, Exit Ansi 50 McMaster 6261k175	1
34	B1059-001	Key Stock, Step 5/16x1/8" McMaster 92271a514	1
35	B1060-001	Key, 3/16"X3/16"X1" Rounded McMaster 95053a301	1
36	●	Hex Nuts (Inch Series) Hex Nut	4

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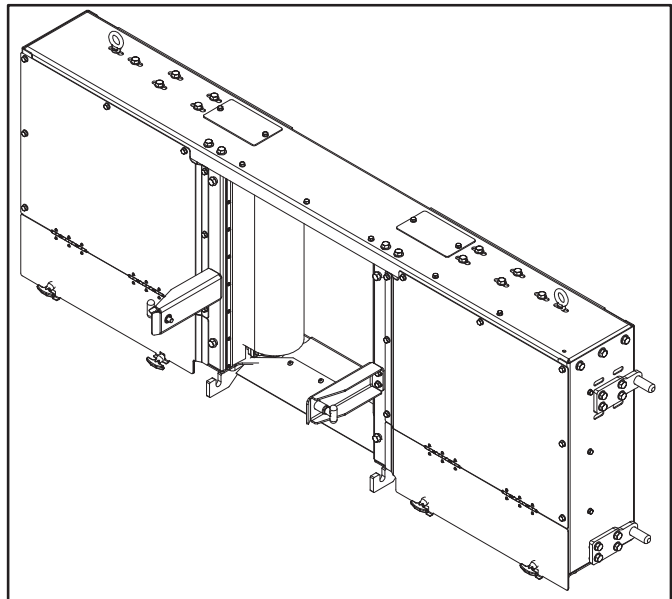
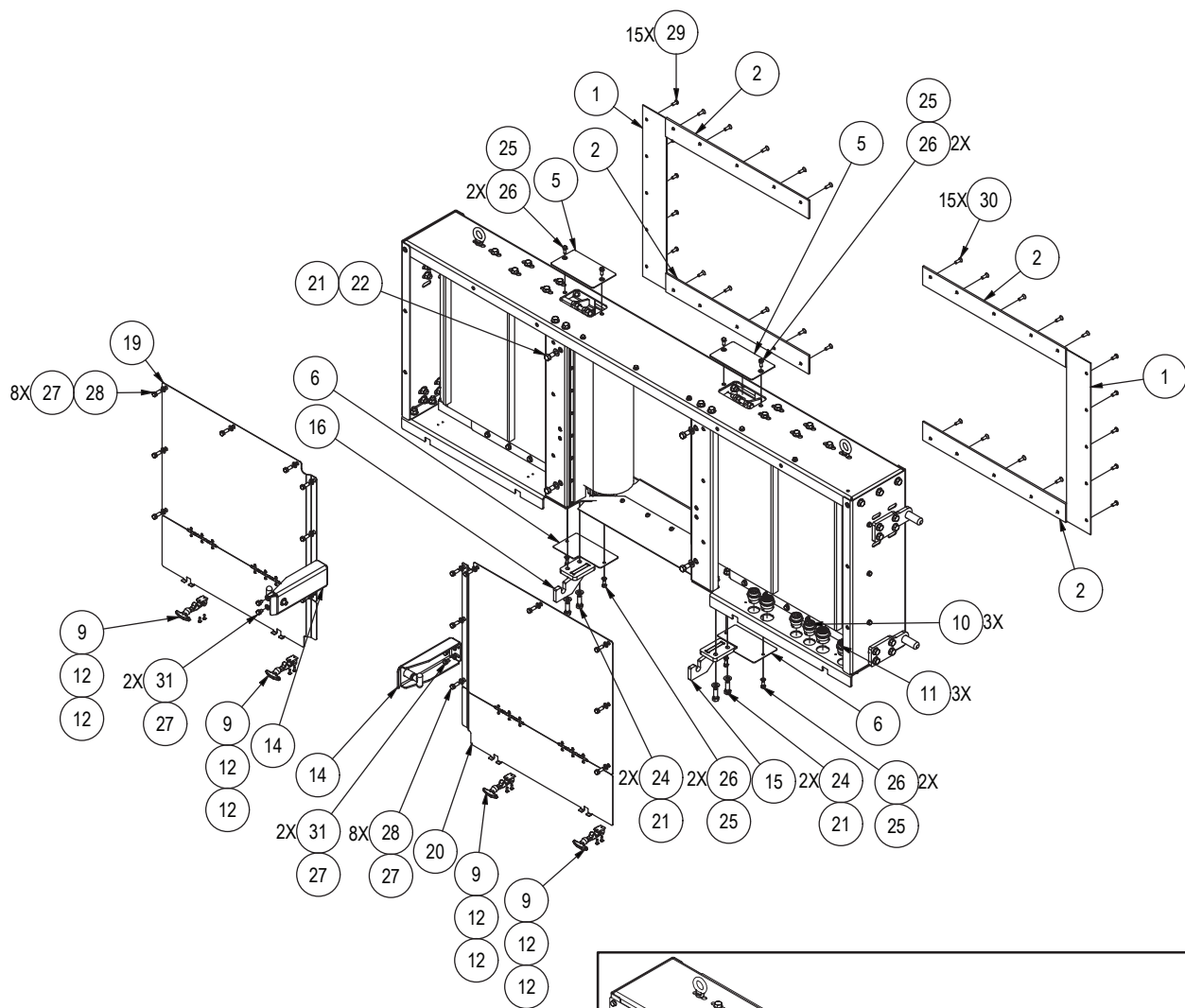
NO EXIT CONVEYOR TAILGATE ASSEMBLY

Ref. No.	Part Number	Description	No. Req'd
4	B1038-001	Direct-Mount Strip Brush With Nylon Bristles	2
7	B1046-001	Plate, Brush Retainer	2
8	B1067-001	Eye Bolt, Lifting 3014t254 1/2-13x1.5" Lg	2
12	B1069-001	Rivet Stainless Dome Head 3/16" 97525A505	16
13	B0891-001	Wldmt, Mount Pin	4
17	B0978-001	Asm Feed Conveyor Tailgate	2
18	B1019-001	Asm, Tail Gate Frame	1
21	●	Plain Washer (Inch)Type A and B	56
22	●	Hex Bolt - Unc (Regular Thread - Inch)	24
23	●	Hex Nuts (Inch Series)	20
24	●	Hex Bolt - Unc (Regular Thread - Inch)	16

KITS AND MARKERS

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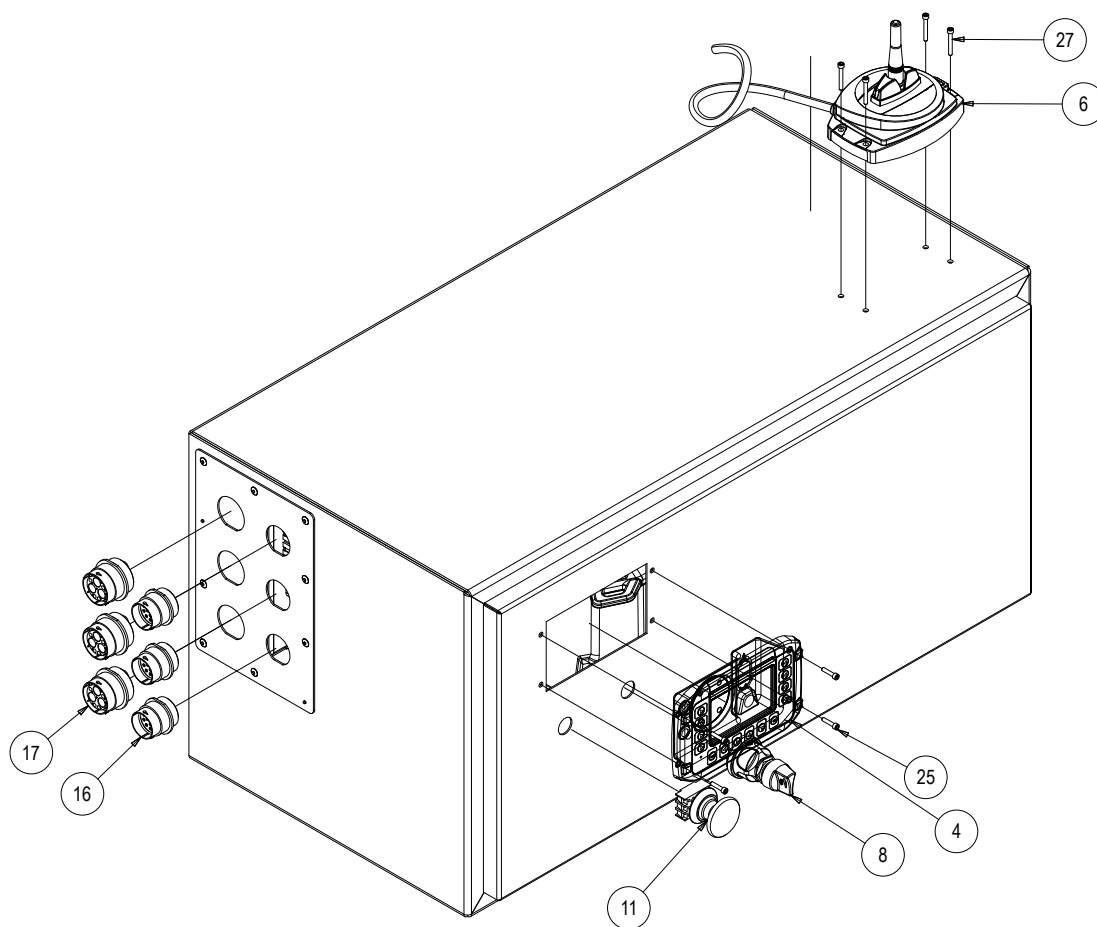
NO EXIT CONVEYOR TAILGATE ASSEMBLY (CONT)

Ref. No.	Part Number	Description	No. Req'd
1	B0889-001	Rubber Strip Feed Conveyor 1	2
2	B1047-001	Rubber Strip Feed 1	4
5	B0863-001	Plate, Cover Top	2
6	B0864-001	Plate, Cover Bottom	2
9	B1066-001	Latch, Rubber Bolt On T Handle 1685a34	4
10	B1080-001	Conn, Amphenol 14 Pos Socket 14-20awg	3
11	B1081-001	Conn, Amphenol 7 Pos Socket 4-20AWG	3
12	B1069-001	Rivet Stainless Dome Head 3/16" 97525A505	8
14	B0959-001	Wldmt, Conv Angle Set 1	2
15	B0960-001	Wldmt, Lower Pin Sup 1	1
16	B0961-001	Wldmt, Lower Pin Sup 2	1
19	B1042-001	FINN Assembly (in) Template	1
20	B1043-001	ASM, Rear Cover 2	1
21	●	Plain Washer (Inch)Type A and B	5
22	●	Hex Bolt - Unc (Regular Thread - Inch)	2
24	●	Hex Bolt - Unc (Regular Thread - Inch)	4
25	●	Plain Washer (Inch)Type A and B	10
26	●	Hex Bolt - Unc (Regular Thread - Inch)	8
27	●	Plain Washer (Inch)Type A and B	20
28	●	Hex Bolt - Unc (Regular Thread - Inch)	16
29	●	Hexagon Socket Button Head Cap Screw	14
30	●	Hexagon Socket Flat Countersunk Head Cap Screw	20
31	●	Hex Bolt - Unc (Regular Thread - Inch)	4

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TAILGATOR® ELECTRICAL BOX ASSEMBLY

Ref. No.	Part Number	Description	No. Req'd
4	B1113-001	DISPLAY - STATUS AND CONTROL	1
6	B1131-001	ASM, G3B ANTENNA PURCHASED	1
8	B1134-001	SWITCH, IGNITION	1
11	B1138-001	SWITCH, E-STOP	1
16	B1080-001	CONN, 14 POS SOCKET	3
17	B1081-001	CONN, 7 POS SOCKET	3
25	●	Hexagon Socket Head Cap Screw	10
27	●	Hexagon Socket Head Cap Screw	8

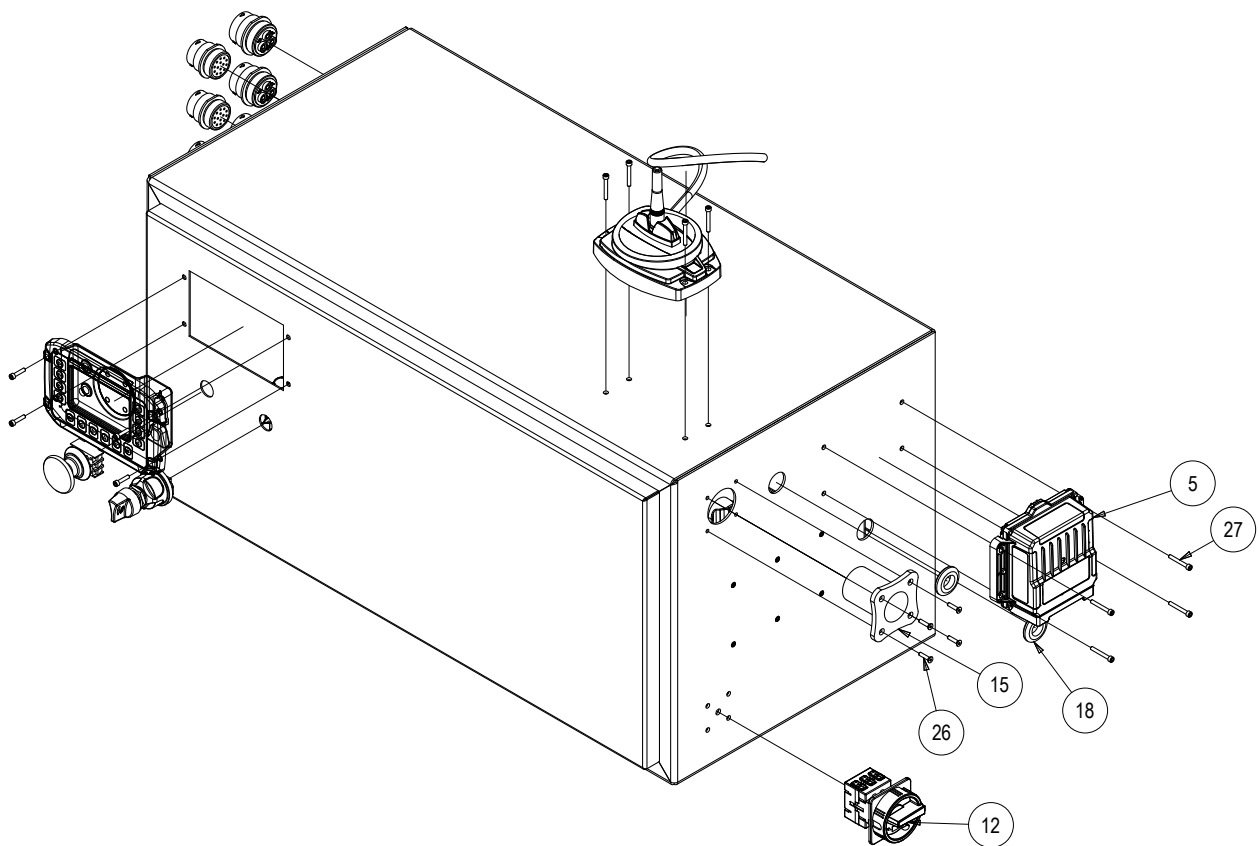
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	B1119-001	ASM, ELECTRICAL, BOX ONLY	1
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KITS AND MARKERS

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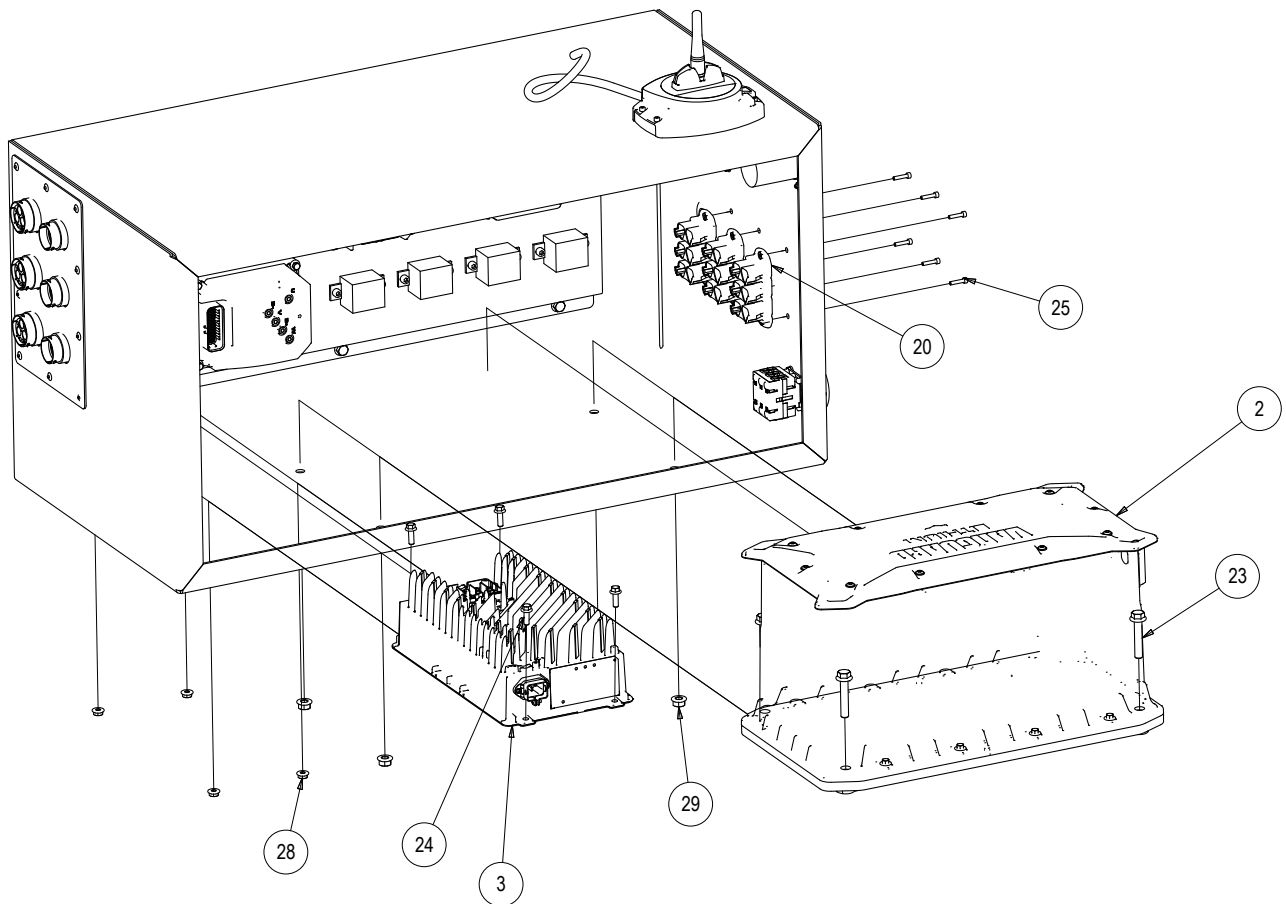
TAILGATOR® ELECTRICAL BOX ASSEMBLY (CONT)

Ref. No.	Part Number	Description	No. Req'd
5	B1120-001	TELEMATICS PLATFORM	1
12	B1139-001	SWITCH POWER	1
15	B1141-001	PLUG, AC PORT CHARGER	1
18	B1144-001	GROMMET 1 1-8 PUSH IN	2
26	●	Hexagon Socket Flat Countersunk Head Cap Screw	4
27	●	Hexagon Socket Head Cap Screw	10

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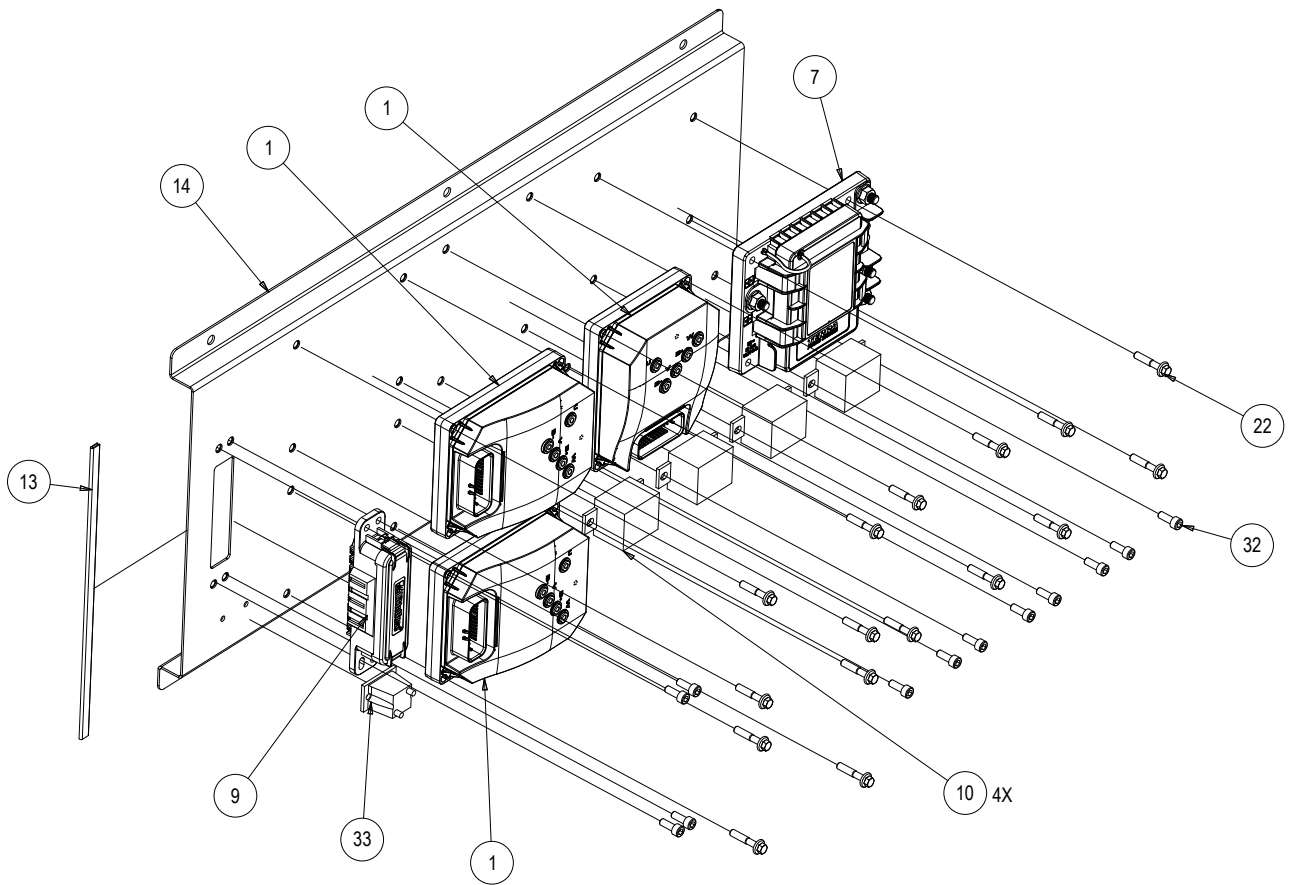
TAILGATOR® ELECTRICAL BOX ASSEMBLY (CONT)

Ref. No.	Part Number	Description	No. Req'd
2	B1122-001	BATTERY, MAIN POWER	1
3	B1133-001	CHARGER	1
20	B1143-001	CAN SPLITTER 6 WAY	3
23	●	Hex Flange Screw - Regular Thread - Inch	4
24	●	Hex Flange Screw - Regular Thread - Inch	4
25	●	Hexagon Socket Head Cap Screw	10
28	●	Hex Flange Nut	4
29	●	Hex Flange Nut	4

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TAILGATOR® ELECTRICAL BOX ASSEMBLY (CONT)

Ref. No.	Part Number	Description	No. Req'd
1	B1121-001	Inverter 24v	3
7	B1132-001	Fuse Block W Ground	1
9	B1135-001	Fuse Holder	1
10	B1137-001	Relay, Control 24v	4
13	B1140-001	Rubber Edge Trim	1
14	B1125-001	Wldmt, Formed Electrical Mount	1
22	●	Hex Flange Screw - Regular Thread - Metric	16
32	●	Iso Metric Hexagon Socket Head Cap Screws	12
33	B1201-001	Diode, Main Power	1

KITS AND MARKERS

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DECALS (NOT SHOWN)

Ref. No.	Kit Ref.	Part Number	Description	No. Req'd
		023174W	FINN Logo decal	
		B1190-001	Decal - E-stop and Key Position	
		B0559-001	Decal - MTG Modular Tailgate	
		B0558-001	Decal - TailGator® Logo	
		B0560-001	Decal - XTS Attachment	
		B0813-001	Decal - XTL Attachment	
▲		-----	Decal - Remote Start Hazard	4
▲		-----	Decal - Pinch Point/Moving Belt Hazard	4
▲		-----	Decal - Do Not Remove Guard	4
▲		-----	Decal - Do Not Pressure Wash	5
▲		-----	Decal - Lift Point	2
▲		-----	Decal - Read Manual	1
▲		-----	Decal - Battery Charging	1
▲		-----	Decal - Electrocution Hazard	1
▲		-----	Decal - Hazard/Attention	1
▲		-----	Decal - Vision Protection Required	1
▲		-----	Decal - Vision Damage Hazard	2
KITS AND MARKERS				
▲		B1182-001	Tailgator® Decal Kit	

**WHEN ORDERING PARTS, BE SURE TO STATE
SERIAL NUMBER OF MACHINE**

NOTES

[illegible]

NOTES

[illegible]