

CONVEY-ALL[®]

CSC-1545 COMMERCIAL SEED CART



convey-all.com/cst-1545

OPERATOR'S MANUAL

SIGN-OFF FORM

Meridian Manufacturing Inc. follows the general Safety Standards specified by the American Society of Agricultural Engineers (ASAE), and the Occupational Safety and Health Administration (OSHA). Anyone who will be operating and/or maintaining the tube conveyor must read and clearly understand ALL Safety, Operating and Maintenance Information presented in this manual.

Do not operate or allow anyone else to operate this equipment until such information has been reviewed. Annually review this information before the season start-up.

Make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. We feel that an untrained operator is unqualified to operate this machine.

The following Sign-Off Form is provided for your record keeping to show that all personnel who will be working with the equipment have read and understand the information in the Operator's Manual and have been instructed in the operation of the equipment. Copy this page to continue record.

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**PRODUCT REGISTRATION FORM
and INSPECTION REPORT**

CONVEY-ALL®

The Dealer must fill out this form, and be signed by both the Dealer and Buyer at the time of delivery. Scan or photograph the completed form (must be legible), and email it to: register@convey-all.com
A copy of this form may also be mailed to: Box 760, 275 Hespler Ave, Winkler Manitoba R6W 4A8.

Buyer's Name _____	Dealer's Name _____
Address _____	Address _____
City _____	City _____
Province/State _____	Province/State _____
Postal/Zip Code _____	Postal/Zip Code _____
Country _____	Country _____
Phone Number _____	Phone Number _____
Model Number _____	Serial Number _____
Delivery Date _____	General Purpose: <input type="checkbox"/> Private <input type="checkbox"/> Commercial

UNIT INSPECTION

- ☐ No paint damage, scratches, or corrosion
- ☐ Gate cylinders function correctly
- ☐ Trailer tires and air-ride system checked
- ☐ Tire Pressure checked

SAFETY INSPECTION

- ☐ All Guards/Shields Installed and Secured
- ☐ All Safety Decals Clear and Legible
- ☐ Reflectors, Trailer Lights are Clean
- ☐ All Lights are Clean and Working
- ☐ Reviewed Operating/Safety Instructions

I have thoroughly instructed the buyer on the above described equipment. The review included the content of the Operator's Manual, equipment care, adjustments, safe operation and warranty policy.

Date _____ Dealer's Signature _____

The above equipment and Operator's Manual have been received by me. I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date _____ Buyer's Signature _____

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Section 1: INTRODUCTION

Thank you for choosing a Convey-All® Commercial Seed Cart (CSC).

Convey-All® products are built by Meridian Manufacturing Inc. The equipment we design and manufacture meet the exacting standards of the agriculture industry.

Keep this manual for reference and to pass on to new operators or owners. Call your dealer, distributor or Meridian if you need assistance, information, additional/replacement copies, or a digital version.

Information provided herein is of a descriptive nature. Meridian Manufacturing Inc. reserves the right to modify the machinery design and specifications without any preliminary notice.

Performance quality may depend on the material being handled, weather conditions and other factors.

OPERATOR ORIENTATION

The directions; left, right, front and rear, as mentioned throughout this manual, are as seen from the truck driver's seat and facing the direction of travel.

SERIAL NUMBER LOCATION

Always give your dealer the serial number when ordering parts or requesting service or other information.

The seed cart's VIN plate is beside the front landing gear, and serial number is on the rear support.

VIN Plate No: _____

Serial No: _____



Fig 1 - VIN plate next to front, left-side landing gear



Fig 2 - Serial # on rear, left-side, vertical beam

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Section 2: SAFETY



The following signal words are used in this manual to express the degree of hazard for areas of personal safety.

When you see the symbol and/or the signal words described below, obey the accompanying message to avoid possible injury or death.



Indicates a hazardous situation that, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations. Typically for machine components which, for functional purposes, cannot be guarded.



Indicates a hazardous situation, if not avoided, could result in death or serious injury. This word identifies hazards that are exposed when guards are removed. It may be used to alert against unsafe practices.



Indicates a hazardous situation, if not avoided, could result in minor or moderate injury. It may be used to alert against unsafe practices.



Indicates practices or situations which may result in the malfunction of, or damage to equipment.



Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

2.2 SAFETY ORIENTATION

YOU are responsible for the SAFE operation and maintenance of your Convey-All® Commercial Seed Cart (CSC). Be sure that you and anyone else who will operate, maintain or work around the seed cart be familiar with the safety, operating and maintenance procedures.


This manual will take you step-by-step through your working day and alerts you to all good safety practices that should be adhered to while operating the CSC.

Remember, you are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a regular part of your safety program. Be certain that everyone who will work with this equipment follows these procedures.


Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.


- Seed cart owners must give operating instructions to operators or employees before allowing them to operate the machine.
 - Procedures must be reviewed annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
 - The operator should be responsible, properly trained and physically able. You should be familiar with farm machinery in general.
- Think SAFETY! Work SAFELY!

2.1 GENERAL SAFETY

- Read and understand the Operator's Manual and all safety decals before operating, maintaining, adjusting or unplugging the seed cart. 

- Only trained, competent persons shall operate the unit. An untrained operator is not qualified to operate the machine.

- Have a first-aid kit available for use should the need arise. 

- Provide a fire extinguisher for use in case of an accident. Store in a highly visible place. 

- Do not allow riders.

- Do not allow children, spectators or bystanders within hazard area around the machine.

- Wear personal protective gear (PPE). This list includes but is not limited to:

- Hard hat
- Protective shoes with slip resistant soles
- Eye protection
- Heavy gloves
- Hearing protection
- Respirator or filter mask
- Hi-Visibility safety vest



- Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment.
 - Consult your doctor about operating this machine while taking prescription medications.

- If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.

- Review safety related items annually with all personnel who will be operating or maintaining the seed cart.

2.3 EQUIPMENT SAFETY GUIDELINES

- Safety of the operator and bystanders is one of the main concerns in designing and developing equipment. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment.
- Do not allow persons to operate this unit until they have been trained. They must know all safety precautions.
- In order to provide a better view, some images in this manual may show an assembly with a safety guard removed.
 - Equipment should never be operated in this condition. All guards must be in place. If removal becomes necessary for repairs, replace the shield prior to use.
- This equipment is dangerous to children and persons unfamiliar with its operation.
- Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - DON'T TRY IT.
- Do not modify the equipment in any way. Unauthorized modification result in serious injury or death and may impair the function and life of the equipment.
- The design and configuration of this conveyor includes safety decals and equipment. They need to be clean, readable and in good condition.



2.4 SAFETY DECALS

- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible.
- Replaced parts must display the same decal(s) as the original parts.
- All safety decals have a part number in the lower right hand corner. Use this part number when ordering replacements.
- Decals are available from your authorized distributor, dealer's parts department or from Meridian Manufacturing Inc.

2.4.1 Applying Decals:

1. Be sure the application area is clean and dry. Ensure the surrounding temperature is above 10°C (50°F).
 - a. Remove all dirt, grease, wax from surface.
 - b. Clean the area with a non-ammonia based cleaner.
 - c. Wipe the clean surface with isopropyl alcohol on paper towel, and allow to dry.
2. Determine the exact position before you remove the backing paper.
3. Peel a small portion of the split backing paper.
4. Align the decal over the specified area. Use a squeegee to carefully press the small portion, with the exposed adhesive backing, into place.
5. Slowly peel back the remaining paper and carefully smooth the rest of the decal into place.
6. Small air pockets can be pierced with a pin and smoothed out using the squeegee, or a piece of sign backing paper.

2.5 DECAL LOCATION

The following illustrations show the general location of decals on this conveyor. The position of decals may vary depending on the machine's options. Decals are not shown at actual size.

Pinch Point decals located at each compartment gate



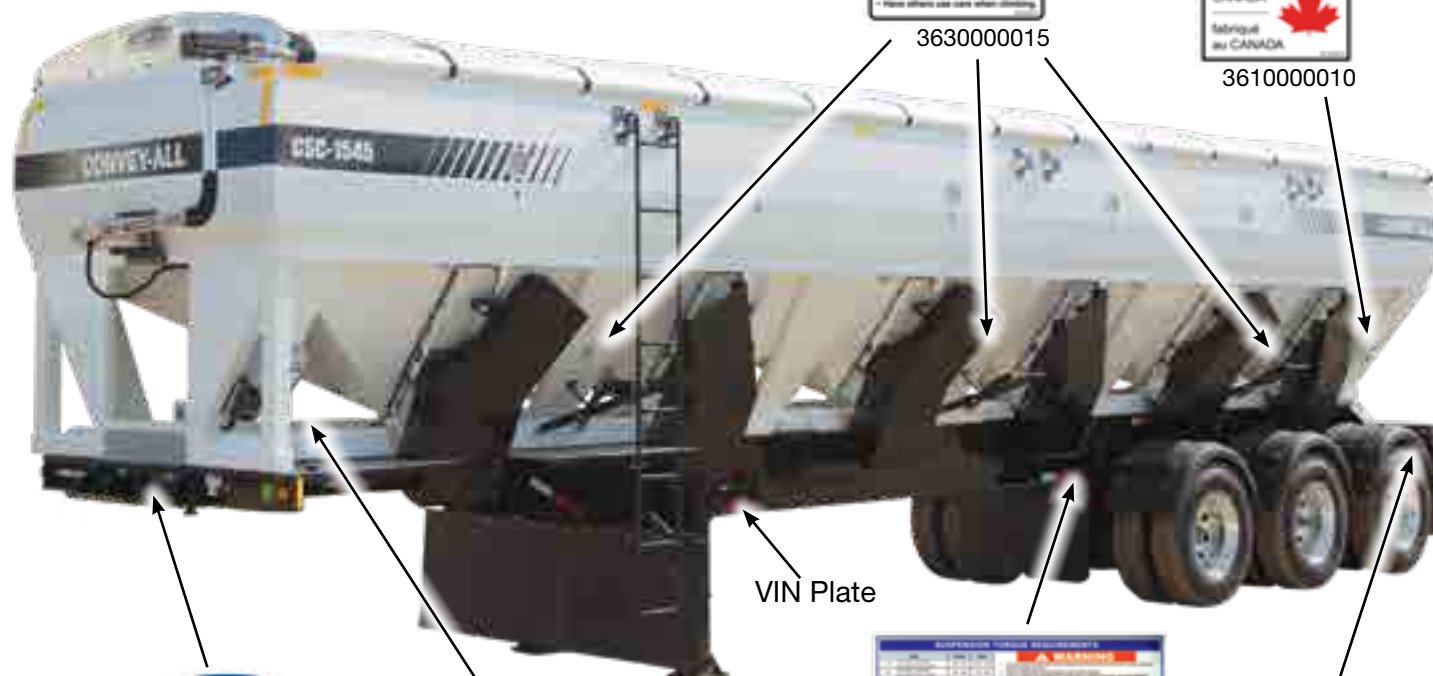
3630000014



3630000015



3610000010



VIN Plate



3610000063



3610000064



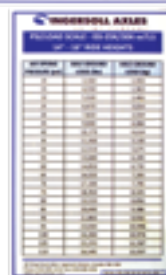
3637000001



Shur-lok



3647000002



Axle Supplier



3610000062

Fig 3 - Decals on driver-side of CSC-1545

REMEMBER - If safety decals have been damaged, removed, become illegible, or parts were replaced without signage, new ones must be applied. New decals are available from your authorized dealer.

2.6 WORK PREPARATION

- Never operate the engine and CSC until you have read this manual, and understand the information.
- Be familiar with the safety messages found on the decal around the unit.
- Personal protective equipment (PPE) including:
 - Hard hat
 - Eye protection
 - Protective shoes
 - Work gloves



They are recommended during operation, maintenance or when transporting the seed cart.

- Do not allow long hair, loose fitting clothing or jewelry to be around equipment.
- **PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!**

Agricultural equipment can often be noisy enough to cause permanent, partial hearing loss. We recommend that hearing protection be worn on a full-time basis if the noise in the operator's position exceeds 80db.



Noise over 85db on a long-term basis can cause severe hearing loss.

Noise over 90db adjacent to the operator over a long-term basis may cause permanent, total hearing loss.

Note:

Hearing loss from loud noise (tractors, chain saws, radios, etc.) is cumulative over a lifetime without hope of natural recovery.

- Clear working area of stones, branches or hidden obstacles that might be hooked or snagged, causing injury or damage.
- Operate only in daylight or good artificial light.
- Be sure machine is in a stable position, is adjusted and in good operating condition.
- Ensure that all safety guards and safety decals are properly installed and in good condition.
- Before starting, inspect the unit for any loose bolts and/or worn parts. Make the necessary repairs before it becomes an emergency.
 - Always follow maintenance instructions.

2.7 PLACEMENT SAFETY

- Stay away from overhead power lines when operating or moving the seed cart. Electrocutation can occur without direct contact.
- Position the seed cart providing enough space for loading and unloading.
- Operate the seed cart on level ground, free of debris.



2.8 MAINTENANCE SAFETY

- Review Section 4: Service and Maintenance, before maintaining or operating the seed cart.
- Follow good shop practices:
 - Keep service area clean and dry.
 - Be sure electrical outlets and tools are properly grounded.
 - Use adequate light for the job.
- Replace parts with genuine factory replacement parts to restore your equipment to original specifications.
 - Meridian Manufacturing Inc. will not be responsible for injuries or damage caused by use of unapproved parts and/or accessories.
- Clear the area of bystanders, especially children, when carrying out any maintenance and repairs or making any adjustments.
- Before resuming work, when maintenance work is complete, install and secure all guards.
- Replace damaged or not clearly visible decals.



2.9 TIRE SAFETY

- Failure to follow procedure when mounting a tire on a wheel or rim can produce an explosion and may result in serious injury or death.
- Do not attempt to mount a tire unless you have proper equipment and training to do the job.
- Have a qualified tire dealer or repair service perform required tire maintenance.
- When replacing worn tires, make sure they meet the original tire specifications. Never undersize.
- Reference the tire side wall for information on the maximum cold tire pressure (PSI). Keep the tires inflated to this specified amount.





2.10 OPERATING SAFETY

- Anyone who will be operating this seed cart, or working around it, must read this manual. They must know operating, maintenance, safety info.
 - Review the manual annually.
- Keep all bystanders, especially children, away from the machine when loading or unloading. Only authorized personnel should be in the area when carrying out maintenance work.
- Use care when climbing on frame or ladder to prevent slipping or falling.
- Establish a Lock-Out, Tag-Out policy for the work site. Be sure all personnel are trained in and follow all procedures.
 - Lock-out, tag-out all power sources before servicing the unit or working around the equipment.
- Do not place hands, arms or body inside the slide gate or between moving parts to prevent pinching or crushing.
- Be familiar with machine hazard areas. If anyone enters these spaces, shut down machine immediately. Clear the area before restarting.
- Do not allow riders on the seed cart when transporting.
- Keep working area clean and free of debris to prevent slipping or tripping.
- Stay away from overhead obstructions and power lines during operation and transporting. Electrocution can occur without direct contact.
- Set park brake on the truck when parked.



2.11 TRANSPORT SAFETY

- Check that all the lights, reflectors and other lighting requirements are installed and in good working condition.
- Be sure that the trailer is equipped with brakes that are in good working order. Be familiar with their operation.
- Never allow riders on the trailer.
- Comply with all local laws governing safety and transporting equipment on public roads. 
- Do not exceed a safe travel speed. Slow down for rough terrain and when cornering.
- Stay away from overhead power lines. Electrocutation can occur without direct contact. 
- Plan your route to avoid heavy traffic.
- Do not drink and drive.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Watch for traffic when operating near or crossing roadways.

2.12 STORAGE SAFETY

- Always close the roll tarp over the compartments when not in use. This will protect the compartment coating against sun damage, and prevent unauthorized entry.
- Store the seed cart on a firm, level surface.
- Store in an area away from human activity.
- Make certain all mechanical locks are safely and positively connected before storing.
- Do not permit children to play on or around the stored seed cart.

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Section 3: OPERATION

WARNING

- Read and understand the Operator's Manual, and all safety decals, before using.
- Clear the area of bystanders, especially children, before starting.
- Install and secure all guards before starting. Do not operate machine when any guards are removed.
- Use care when climbing on frame or ladder to prevent slipping or falling.
- Stay away from overhead obstructions and power lines during operation. Electrocution can occur without direct contact.
- Do not allow riders on the CSC when transporting.
- Keep hands, feet, hair and clothing away from all moving parts.
- Keep working area clean and free of debris to prevent slipping or tripping.
- Establish a lock-out, tag-out policy for the work site. Train all personnel in, and follow all procedures. Lock-out, tag-out all power sources before servicing the unit or working around loading/unloading equipment.

The Convey-All® Commercial Seed Cart has many features incorporated into it as a result of suggestions made by customers like you.

Hazard controls and accident prevention depend on the personnel operating and maintaining the equipment. Their concern, attentiveness and proper training are crucial.

It is the responsibility of the owner and operators to read this manual and to train all personnel before they start working with the machine. By following recommended procedure, a safe working environment is provided for the operator, co-workers and bystanders in the area around the work site.

By following these procedures, in conjunction with a good maintenance program, your seed cart will provide many years of trouble free service.

3.1 MACHINE COMPONENTS

The main components are:

- a. Six compartments
- b. Six compartment gates w/ outlet chutes
- c. Canvas tarp
- d. Tarp control
- e. Control box
- f. Ladder (stored on front, left-side fender)
- g. Ladder mount brackets and braces (3 locations)
- h. Work lights (three)
- i. Document holder

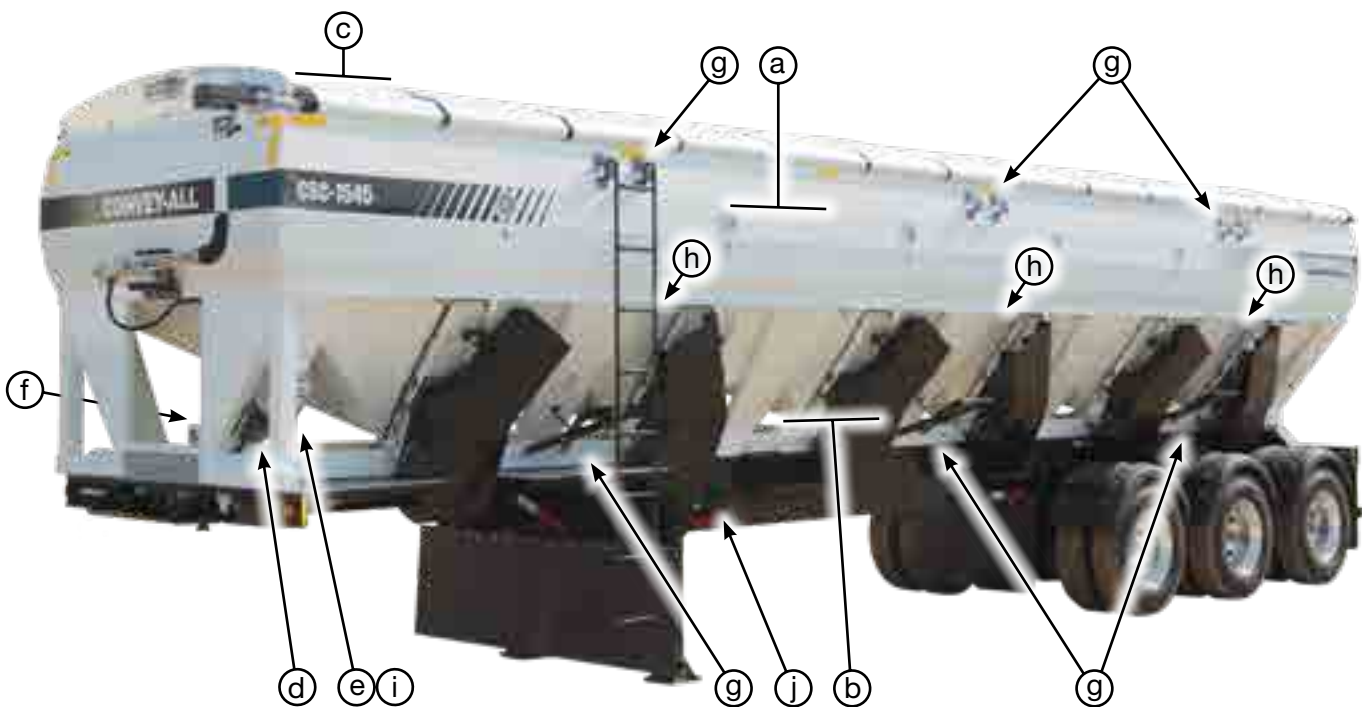


Fig 4 - CSC-1545 component locations

3.2 COMPONENTS AND CONTROLS

Before starting to work, all operators must familiarize themselves with the location and function of the components and controls on the seed cart.

Electric Roll Tarp:

NOTICE

COATING DAMAGE POSSIBLE
Always cover the seed cart with roll tarp when not in use to prevent compartment coating damage.

The roll tarp controls are located on the front, left-side compartment support, above the fender.

1. Press and hold the left button (O) to open the roll-top cover.
2. Press and hold the right button (C) to close the cover.
3. Release the switch and the motor will stop.

Compartment Inner Ladder Rungs:

Each compartment is designed with an inner ladder rungs to provide access for inspection and cleanout.

Exterior Ladder:

It is stored on the front, right-side fender.

There are 3 sets of ladder mount brackets along the top driver-side to hang the ladder from. Below each set of brackets, are ladder braces to secure the ladder to.



Fig 5 - Roll Tarp and controls



Fig 6 - Compartment ladder rungs



Fig 7 - Stored exterior ladder



Fig 8 - Exterior ladder brackets

Compartment Gates with Manual Cranks:

Manual crank handles, to open the gates, are standard.

- The crank handle is stored on the left-side fender, beside the first chute.

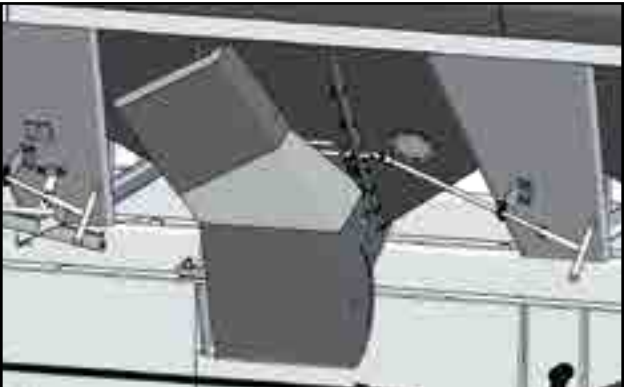


Fig 9 - Compartment Gate, crank handle and chute

Remote Control for Gates (Optional):

A remote control system is available to operate the compartment gates. The wireless receiver box is located at the front left-side fender.

- Refer to the remote control manual in the document holder for complete details.



Fig 10 - Gate with optional electric gate controls









BUTTON	DESCRIPTION
	Press the ON/OFF button to turn remote ON and OFF.
	<ul style="list-style-type: none">• Press the ZERO button to zero the weight.• Press the SETUP and ZERO Buttons at the same time to access the menu.• Press the ZERO button to cycle through the menu options.
	<ul style="list-style-type: none">• Press the SETUP and ZERO buttons at the same time to access the menu.• Press the SETUP button to cycle through the menu options.
	Press the HORIZONTAL ARROW button to cycle through menu options.
	Press the VERTICAL ARROW button to cycle through menu options.
	Press the LIGHTS button to power the work lights ON and OFF.
	Press the GATE OPEN button to open that numbered compartment gate.
	Press the GATE CLOSE button to close that numbered compartment gate.



Fig 11 - Wireless receiver box

Document Holder:

It is located on the compartment support, beside the first chute.



Fig 12 - Remote control handset

Side Drop-Chutes:

Each chute can be manually lowered into place to direct the unloading product.

The drop-chutes are available with optional aluminum extensions.

Work Lights:

There are three work lights situated between each set of drop-chutes. The light switch is on the remote control handset.

Sight Glass:

Each compartment in the seed cart is designed with an upper and lower sight glass to allow the operator to monitor the amount of product in the compartment.

Compartment Scraper:

Below the middle two compartments, a scraper is stored on the trailer frame. It can be used to remove residual product from inside the compartments.

Air-Ride Suspension:

This seed cart sits on a trailer with air-ride suspension.

The air bag dump pull-switch is at the rear, driver-side corner of the seed cart.



Fig 13 - Side drop-chutes with optional extensions



Fig 14 - Scraper storage location



Fig 15 - Air-ride suspension



Fig 16 - Air bag dump

3.3 MACHINE BREAK-IN

There are no operational restrictions on the seed cart when used for the first time.

After Operating 1/2, 5, 10 Hours:

1. Check hardware and fasteners. Tighten to their specified torque.
2. Check that the trailer air brakes are functioning as required.

After 10 Hours:

Go to the service schedule as defined in Section 4.2 Servicing Intervals.

3.4 PRE-TRIP INSPECTION

Efficient and safe operation of the CSC requires that each operator knows the operating procedures.

This pre-trip inspection (similar to what is required for commercial tractor trailers) is provided for the operator.

The following areas should be checked before each trip, for personal safety and to maintain the good mechanical condition of your seed cart:

1. Inspect trailer/seed cart for damage or leaks.
2. Inspect suspension system and air brakes.
 - No air leaks. No wear on hoses and cables.
3. Lights and reflectors must be clean, undamaged and operational.
4. Check tire pressure, treads and sidewalls.
5. Tighten wheel hubs. Hub oil level is high.
6. Close the roll tarp to protect the seed cart's compartments.

3.5 OPERATING ON SITE

The Convey-All® CSC is designed to handle any kind of seed, or granular chemical. Use the seed cart to transport product to or from the field and to market.

Inspect the machine at the start of each day to be sure it is in good mechanical condition.

1. Perform a Pre-Trip inspection.
Refer to Section 3.4
2. Transport the seed cart to the loading location.
3. Once arrived, engage the truck park brake.
4. Open the roll tarp.
5. Fill the compartment(s).
6. Close the roll tarp.
 - Keeping the compartments covered as much as possible helps to protect the paint coating from sun damage.
7. Transport to the unloading area.
8. Maneuver the seed cart and receiving equipment into place under the correct compartment.
9. Releasing the rubber latch and lower the drop-chute.
10. Open the gate under the selected compartment to empty.
 - Use the manual crank handle.
 - or -
 - If equipped, use the remote control.
11. Close the gate when empty.

Continue on with your work day.



Fig 17 - Loading seed cart



Fig 18 - Open the gate with the remote



Fig 19 - Unloading the compartment

3.6 STORAGE

After the season's use, or when the CSC will not be used for a long period of time, completely inspect and clean every part of the seed cart.

Replace or repair any worn or damaged components to prevent any unnecessary down time at the beginning of the next season.

1. Remove all the left over product from inside the compartments.
2. Thoroughly wash the unit to remove all dirt, mud, debris and residue.
 - Wash inside the compartments and around the gates.
3. Close roll tarp to prevent unauthorized entry into the compartments. Also to protect the compartment coating against sun damage.
4. Touch up all paint nicks and scratches to prevent rusting.
5. Store in an area away from human activity.
6. Do not allow children to climb on or play around the stored seed cart.

3.7 REMOVING FROM STORAGE

When removing the seed cart from storage, follow the Pre-Trip checklists in Sections 3.4.



Fig 20 - Seed cart

Section 4: SERVICE AND MAINTENANCE

WARNING

- Review the Operator's Manual and all safety items before working/maintaining.
- Follow good shop practices:
 - Keep service area clean and dry.
 - Be sure electrical outlets and tools are properly grounded.
 - Use adequate light for the job at hand.
- Always use personal protective equipment; safety glasses, gloves, hearing protection, when performing any service or maintenance.
- Keep hands, feet, hair and clothing away from moving parts.
- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.
- Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.
- Keep decals clean. Replace if damaged or not clearly visible.

By following the operating instructions, in conjunction with a good maintenance program, your tender will provide many years of trouble free service.

Use the Service Record provided on page 4-3, to keep a record of all scheduled maintenance.

Every 200 Hours or Annually:

IMPORTANT:

Refer to this link for axle maintenance:
<http://www.dexteraxle.com/resources/manuals/-in-tags/tags/Heavy-Duty>

1. Check and clean suspension air tank.
 - Drain moisture from tank.
2. Inspect air lines to suspension and brakes, for wear and leaks.
 - Be sure they are secure, not kinked, and have clearance from moving parts.

3. Inspect suspension for missing or broken fasteners or spring leaf.
 - Check components for wear, leaks and other deterioration.
4. Inspect brake system for wear, cracks, etc.
5. Adjust brakes. Refer to online instructions.
6. Check axle alignment.
7. Check oil level in wheel hubs.
 - Inspect hubs for leaks.
8. Lubricate and repack wheel bearings.
9. Inspect tires for wear and check pressure.
10. Re-torque wheel nuts.
11. Ensure reflectors, transport lights and work lights are clean and operational.
 - **Note:** The transport light harness has a lifetime manufacturer warranty.
12. Thoroughly wash the unit to remove all dirt, mud, debris and residue.
 - Wash inside the compartments and around the gates.

4.1 SERVICE RECORD

Refer to page 4-1 for servicing. That section is only a general guide under good conditions. Under extreme, or unusual circumstances adjust service timing accordingly.

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4.2 ORDERING PARTS

Always give the Model Number and Serial Number when ordering parts.

To get your parts promptly the following information will be required:

- The part name and number
- Your Name, Address, Town, Province/State, Country
- Complete information for shipping

Confirm all phoned in orders in writing. If Purchase Orders are required please note the number on the written order.

Unless claims for shortages or errors are made immediately upon receipt of goods, they will not be considered.

Inspect all goods received immediately upon receipt. When damaged goods are received, insist that a full description of the damage is made with the carrier against the freight bill. If this is insisted upon, full damage can be collected from the transport company.

No responsibility is assumed for delay or damage to merchandise while in transit. Dealers responsibility ceases upon delivery or pickup of shipment from or to the transportation company. Any freight damage claims must be made with the transportation company, not with the dealer.

Section 5: REFERENCE

For information not included here, or for a digital copy of this manual, please call your dealer, or Meridian Manufacturing Inc. directly for assistance: (800) 665-7259.

Specifications and measurements are subject to change without notice.

Table 1 - Specifications

DISCHARGE HEIGHTS	FT³ / COMP. (TOTAL)	UNITS / COMP. * (TOTAL)	BUSHELS / COMP. (TOTAL)	TOTAL CAPACITY ** IMPERIAL	TOTAL CAPACITY ** METRIC
38" w/o extension 34" with extension	286 (ends) 236 (middle) 1,516 Total	355 (ends) 292 (middle) 1,880 Total	230(ends) 190 (middle) 1,218 Total	47 Ton	42.6 MT

Table is base on liquid measurements, and does not account for piling above the side walls.

* Units based on 50 lb/unit. ** Capacity based on 62 lb/ft³.

5.1 BOLT TORQUE

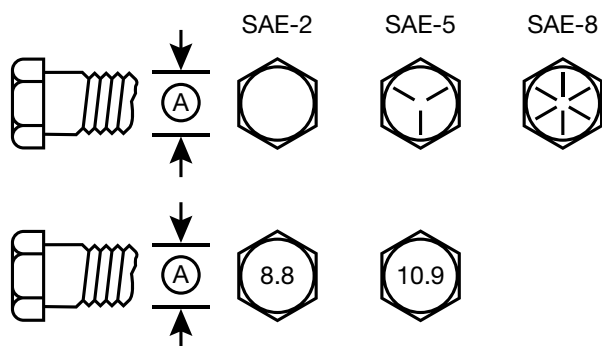
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

Table 2 - English Torque Specifications

BOLT DIA. "A"	BOLT TORQUE*					
	SAE 2 (Nm) (ft-lb)		SAE 5 (Nm) (ft-lb)		SAE 8 (Nm) (ft-lb)	
1/4"	8	6	12	9	17	12
5/16"	13	10	25	19	36	27
3/8"	27	20	45	33	63	45
7/16"	41	30	72	53	100	75
1/2"	61	45	110	80	155	115
9/16"	95	60	155	115	220	165
5/8"	128	95	215	160	305	220
3/4"	225	165	390	290	540	400
7/8"	230	170	570	420	880	650
1"	345	225	850	630	1320	970

Table 3 - Metric Torque Specifications

BOLT DIA. "A"	BOLT TORQUE*			
	8.8 (Nm) (ft-lb)		10.9 (Nm) (ft-lb)	
M3	0.5	0.4	1.8	1.3
M4	3	2.2	4.5	3.3
M5	6	4	9	7
M6	10	7	15	11
M8	25	18	35	26
M10	50	37	70	52
M12	90	66	125	92
M14	140	103	200	148
M16	225	166	310	229
M20	435	321	610	450
M24	750	553	1050	774
M30	1495	1103	2100	1550
M36	2600	1917	3675	2710



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* Torque value for bolts and capscrews are identified by their head markings.

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LIMITED WARRANTY

for Convey-All Conveyors and Tenders

Meridian Manufacturing Inc, hereafter referred to as Meridian®, warrants each new product (the "Goods") to be free from defects in material and workmanship under normal use and service for a period of one (1) year or six (6) months in the case of commercial use, from the shipment date, from the Meridian dealer (FCA).

1. This warranty does not apply to:
 - a. To any merchandise or components thereof, which in the sole and unfettered opinion of Meridian, have been subject to misuse, unauthorized modifications, alteration, accident, negligence, product abuse or lack of required maintenance.
 - b. If repairs have been made with parts or by persons other than those parts or persons approved by Meridian.
 - c. To parts and accessories not manufactured by Meridian including, but not limited to, engines, batteries, tires, belts, PTO shafts or other trade accessories. Such parts shall be covered by the warranty given by the actual manufacturer, if any.
 - d. To failure of parts; or failure of parts to perform due to wear under normal or excessive service conditions; or to failure due to use by the Purchaser for purposes other than originally intended at time of manufacture, including without limitation using the Goods for mixing fertilizer, etc.; or used in excess of the built specifications.
 - e. To Goods used in areas exposed to corrosive or aggressive conditions including, but not limited to, salt water from either inside or outside the Goods.
 - f. To failures or defects arising out of damage during shipment or during storage.
 - g. To materials replaced or repaired under this warranty, except to the extent of the remainder of the applicable warranty.
2. The obligation of Meridian under this warranty shall not arise unless Meridian is notified and this warranty is presented together with a written statement specifying the claim or defect within thirty (30) days after the failure is first detected or made known to the Purchaser and within one (1) year, or six (6) months in the case of commercial use, from the shipment date, from the Meridian dealer (FCA). Meridian in its sole and unfettered discretion shall determine if the claim is valid and whether correction of the defect or failure shall be made by repair or replacement of the materials.
3. Title to any replaced materials Meridian wishes to have pass to it, shall pass to Meridian.
4. The obligation of Meridian hereunder extends only to the original Purchaser or Buyer to whom the Goods were initially sold. This warranty shall not be subject to any assignment or transfer without the written consent of Meridian.
5. The purchaser acknowledges that it has made its own independent decision to approve the use of the Goods and also the specific fabrication and construction procedures utilized to complete the Goods, and has satisfied itself as to the suitability of these products for its use.

6. This warranty is subject to the following limitations, provisions and conditions:
 - a. Meridian shall have no liability hereunder for any claims, including field re-work.
 - b. Meridian shall not be liable for any incidental loss or damage, however caused, including, without limitation, normal wear and tear.
 - c. Meridian makes no express or implied warranties of any nature whatsoever except for such express warranties as set out herein. The warranty provided herein is in lieu of and excludes all other warranties, guarantees or conditions pertaining to the Goods, written or oral, statutory, express or implied, (except the warranty as to title) including any warranty as to the merchantability or fitness for any particular purpose. Meridian expressly disclaims all other representations, conditions or warranties, expressed or implied, statutory or otherwise and any representations, warranties or conditions that may arise from a course of dealing or usage of trade. The warranty provided herein shall constitute Meridian's sole obligation and liability and the Purchaser's sole remedy for breach of warranty. No other warranty has been made by any employee, agent, or representative of Meridian and any statements contained in any other printed material of Meridian is expressly excluded here from. Meridian shall not be responsible for any warranty offered by the Purchaser to its customers with respect to the Goods and the Purchaser shall indemnify Meridian with respect to same if any of those customers makes a claim against Meridian relating to any such warranty.
 - d. Subject to Meridian's obligations contained in paragraph 1 herein, none of Meridian, its officers, directors, servants or agents shall be liable, or responsible for any loss or damage (including strict liability and liability for loss or damage due to items which the manufacturing processes are designed to identify) whether such loss or damage is caused by negligence in any manner whatsoever (including gross negligence, error, misrepresentation, misstatement, imprudence, lack of skill or lack of judgement).
7. The sole financial obligation of Meridian under this warranty shall be limited to the repair or replacement of the Goods as originally supplied and in no event shall they exceed the original cost of the Goods supplied.
8. Meridian shall not have any obligation under any warranty herein until all accounts have been paid in full by the Purchaser.
9. The construction and interpretation of this Warranty shall be governed by the laws of the Province of Manitoba.

Register your product at: www.meridianmfg.com
For warranty information send an email to: warranty@meridianmfg.com

WARRANTY REQUEST PROCEDURE

- The product must be registered with Meridian Manufacturing Inc.
- The purchaser must contact the dealer, from where the unit was purchased, immediately upon discovery of any defects.
- A completed Warranty Request (Claim) Form must be submitted by the dealer to Meridian's warranty representative for review and any subsequent course of action.
 - Warranty requests must be completed with ALL required information in order it to be considered for approval.
 - Send photographs of the entire piece of equipment, and of the specific area of concern.
- Warranty repair work will only be performed by Meridian or an approved representative of Meridian. Warranty work completed prior to Meridian's approval will NOT be honoured. Failure to follow this procedure may affect any or all of this warranty.
- All warranty requests will be adjudicated at the sole discretion of Meridian and in accordance with the terms and conditions of the warranty.

CONVEY-ALL[®]

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