



SEED EXPRESS™ OPERATOR'S MANUAL



SEED EXPRESS™

FOR OWNERS AND OPERATORS OF THE 840, 1050, 1260 SEED EXPRESS

PRODUCT WARRANTY REGISTRATION FORM



www.meridianmfg.com

WARRANTY REGISTRATION

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery. Please mail or fax the completed form for validation of the equipment registration.

Customer's Name _____

Address _____

City, State, Postal Code _____, _____, _____

Phone Number (_____) _____ - _____

PRODUCT INFORMATION

Seed Tender Model # _____

Serial Number # _____

I have thoroughly instructed the buyer on the above-described equipment, including review of the Operator's Manual content, equipment care, adjustments, operational use, safety procedures, and applicable warranty policy.

Dealer/Company Name _____

City, State, Postal Code _____, _____, _____

Dealer's Signature _____ Date ____/____/____

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

Owner's Signature _____ Date ____/____/____

2902 Expansion Blvd. Storm Lake, Iowa 50588 Phone: 800-437-2334 Fax: 712-732-1028 Email: iowa_warranty@meridianmfg.com

Copy This Page Or Cut Here To Remove Page

PRODUCT WARRANTY REGISTRATION FORM



www.meridianmfg.com

DEALER INSPECTION FORM

- | | |
|--------------------------|---|
| <input type="checkbox"/> | Review safety and operating instructions with owner. |
| <input type="checkbox"/> | Verify receipt of all options ordered. |
| <input type="checkbox"/> | Verify that semi tractor is suitable to safely tow seed tender. |
| <input type="checkbox"/> | Check gasoline engine fuel level. Add as needed. |
| <input type="checkbox"/> | Check gasoline engine oil level. Add as needed. |
| <input type="checkbox"/> | Start gasoline engine and make sure it operates properly. |
| <input type="checkbox"/> | Check oil level in hydraulic tank. Add as needed. |
| <input type="checkbox"/> | Check tire air pressure. See sidewall of tire for inflation pressure. Add as needed. |
| <input type="checkbox"/> | Make sure wheel nuts/bolts are tightened to proper torque on all wheels. |
| <input type="checkbox"/> | Make sure conveyor tube rotates 120 degrees and folds into transport position. |
| <input type="checkbox"/> | Make sure the remote control unit for the conveyor is working properly. |
| <input type="checkbox"/> | Make sure the remote control unit for the tarp is working properly. |
| <input type="checkbox"/> | Make sure all guards/shields are installed correctly. |
| <input type="checkbox"/> | Make sure all safety signs are installed and legible. |
| <input type="checkbox"/> | Make sure all reflectors and lights are clean and working properly. |
| <input type="checkbox"/> | Inspect brake and lighting wiring harness connections. All lights must be functioning. |
| <input type="checkbox"/> | Make sure seed tender battery is fully charged and in good working order. |
| <input type="checkbox"/> | Make sure trailer brakes are in working condition. |
| <input type="checkbox"/> | Make sure license plate light is operating. |
| <input type="checkbox"/> | Make sure turn signal lights are operating. |
| <input type="checkbox"/> | Make sure brake lights are operating. |
| <input type="checkbox"/> | Make sure owner is instructed to check wheel bolt/nut torque at 5, 10, 25, and 50 miles; then check annually. |



2902 Expansion Blvd.
 Storm Lake, IA 50588
 PH# 712-732-1780
 FAX# 712-732-1028

Date: ____/____/____

CERTIFICATE OF ORIGIN

LICENSING INFORMATION

DEALER:

_____ Business
 _____ Contact
 _____ Address
 _____ City, State, Zip

SOLD TO:

_____ Business
 _____ Contact
 _____ Address
 _____ City, State, Zip

TENDER MODEL # _____

TENDER WEIGHT _____

TENDER SERIAL # _____

(One serial number is issued for the tender and the Trailer will receive a separate serial number)

TRAILER MODEL #: _____

TRAILER SERIAL # _____ TRAILER WEIGHT: _____

Tender 110 BST Wagon	80110	1,004#	240 –Front Facing (BH trailer included)	80136	3720#
Tender 110 BST-T (trailer included)	80111	1,830#	Tender 375 (no trailer)	80349	4207#
Tender 225 RST Wagon	80131	1733#	Tender 375-BH	80345	6071#
Tender 225 RST-BH	80601	3375#	Tender 375-GN	80346	6721#
Tender 225RST-GN	80602	4097#	Tender 375-BWT-BH	80347	6079#
Tender 225RST-BWT-BH	80603	3577#	Tender 375BWT-GN	80348	6729#
Tender 225RST-BWT-GN	80604	4299#	Tender 375RT8-BWT (trailer included)	80377	5,913#
Tender 240RT6	80249	2,545#	Tender 375RT8-T (trailer included)	80379	5,607#
Tender 240RT6-BWT-BH	80253	4,475#	Tender Titan 2SE-T (trailer included)	80201	2,254#
Tender 240RT6-BH	80250	4,174#	Tender Titan 2SE-BWT	80616	2302#
Tender 240RT8	80251	2,604#	Tender Titan 2-T (11' 10" discharge)	80134	1820#
Tender 240RT8-BWT-BH	80248	4,534#	Tender Titan 2-T (15' 6" discharge)	80135	1868#
Tender 240RT8-GN	80255	4,232#	Tender T4SE Wagon	80401	2,803#
Tender 240RT8-BWT-GN	80243	4,491#	Tender T4SE-T (trailer included)	80402	4,431#
Tender 375RT6 Wagon	80381	3,094#	Tender T4SE-BWT (trailer included)	80403	4,833#
Tender 375RT6-BH	80324	5,636#	Tender T4SE-T-GN	80609	4893#
Tender 375RT6-BWT-BH	80337	5,942#	Tender 4SE-T-GN-BWT	80608	5235#
Tender 375RT6-GN	80338	6637#	Tender 400-6SLD	80352	3375#
Tender 375RT8	80382	3476#	Tender 400BH-6SLD	80353	5040#
Tender 375RT8 Wagon	80376	3106#	Tender 400GN-6SLD	80354	5690#
Tender 375RT8 –BH	80326	5760#	Tender 400-8SLD	80355	3530#
Tender 375RT8-GN	80327	6441#	Tender400BH-8SLD	80356	5195#
Tender 375RT8-BWT-BH	80339	5990#	Tender 400GN-8SLD	80357	5845#
Tender 375RT8 -GN	80340	6672#	840RT Tender	80409	
240 –Rear Facing (BH trailer included)	80121	3720#	1050RT Tender	80410	
			1260RT Tender	80411	

Copy This Page Or Cut Here To Remove Page

IMPORTANT INFORMATION

SERIAL NUMBER LOCATION

Provide the serial number of your Meridian 840/1050/1260 Seed Express Seed Tender and engine when ordering parts or requesting service or other information.

The serial number plates are located where indicated. Please mark the number in the space provided for easy reference.



Seed Tender Location



Gasoline Engine Location

PATENT INFORMATION



Meridian continuously enhances its product offering through product improvements and new product innovations. Marketplace feedback, technological innovation, new materials and manufacturing methods, and a philosophy of continuous improvement constantly challenge the company to develop new and better ways of addressing market needs. Meridian is committed to innovation and reinvestment and as a result, the company maintains a portfolio of patents and intellectual property. For more information on our patents please see our website: www.meridianmfg.com/patents

Seed Tender Model Number: _____

Seed Tender Serial Number: _____

Engine Serial Number: _____

CONTENTS

1. INTRODUCTION	11
1.1 Congratulations	11
1.2 Operator Orientation	11
1.3 Owner/Operator	11
2. SAFETY	12
2.1 General Safety	13
2.2 Equipment Safety Guidelines	14
2.3 Safety Training	14
2.4 Safety Signs	15
2.4.1 How to Install Safety Signs	15
2.5 Preparation Safety	15
2.6 Operating Safety	15
2.7 Maintenance Safety	16
2.8 Lock-Out or Tag-Out Safety	16
2.9 Storage Safety	17
2.10 Transport Safety	17
2.11 Refueling Safety	17
2.12 Battery Safety	17
2.13 Sign-Off Form	18
3. SAFETY SIGN LOCATIONS	19
4. SPECIFICATIONS	22
4.1 Overall Seed Tender Specifications	22
4.2 Bolt Specifications	23
4.2.1 Bolt Torque Values	23
4.2.2 Bolt Grade Markings Chart	23
5. MACHINE COMPONENTS AND CONTROLS	24
5.1 Component Nomenclature and Location	24
5.2 Engine and Controls	26
5.3 Control System Functions	27
5.3.1 Control Functions	27
5.3.2 Control System Compliance Information	27
5.4 Wireless Remote Transmitter	28
5.4.1 Functions of Keypad Buttons	28
5.4.2 Remote Disable Feature	31
6. PRE-OPERATING INSTRUCTIONS	32
6.1 Machine Break-In Period	32
6.1.1 Before Starting	32
6.1.2 Inspections for 1/2, 5, and 10 Hours	32
6.2 Pre-Operation Checklist	32
7. OPERATION	33
7.1 Connecting the Trailer	33
7.2 Opening and Closing Roll-Up Tarp	34
7.3 Loading / Unloading	35
7.3.1 Loading (Filling the Seed Tender)	35
7.3.2 Unloading (Filling the Storage Bin)	36
7.3.3 Conveyor Swing Adjustment	39
7.3.4 Bottom Dump Feature	40
8. STORAGE	41
8.1 General Information	41
8.2 Placing in Storage	41
8.3 Removing from Storage	41

9. MAINTENANCE	42
9.1 Greasing	42
9.2 Grease Fitting Locations	43
10. SERVICE PROCEDURES	44
10.1 Remote Control Unit	44
10.1.1 Battery Replacement Tips	44
10.1.2 Battery Replacement	44
10.1.3 Battery Replacement - Roll-Up Tarp Remote Control Unit	44
10.2 Hydraulic System	45
10.2.1 Hydraulic Oil Filter Change	45
10.2.2 Hydraulic Oil Change	45
10.2.3 Hydraulic Pressure Relief Valves	46
10.2.4 Hydraulic Pump Coupling	46
10.3 Engine	47
10.3.1 Approved Fuel	47
10.3.3 Change Engine Oil	47
10.3.4 Air Cleaner	48
10.4 Incline Conveyor	48
10.4.1 Unplugging	48
10.4.2 Belt Tension Adjustment	49
10.4.3 Belt Tracking Adjustment	49
10.4.4 Belt Replacement	49
10.5 Underbin Conveyor	50
10.5.1 Unplugging	50
10.5.2 Belt Tension Adjustment	50
10.5.3 Belt Tracking Adjustment	51
10.5.4 Belt Replacement	51
10.6 Wheel Bolt Torque Requirements	52
10.7 Service Record Chart	53
10.8 Service Checks	54
10.8.1 Daily Inspection (8 Hours)	54
10.8.2 Weekly Inspection (50 Hours)	54
10.8.3 Semi-Annual Inspection (100 Hours)	54
10.8.4 Annual Inspection (400 Hours)	54
10.9 Axle Maintenance	54
10.10 Tires	54
11. OEM LITERATURE	55
11.1 Honda® Engine	55
11.2 Retractable Compartment Tarp	55
11.3 Trailer	55
12. TROUBLESHOOTING	56
12.1 Troubleshooting Chart	56
12.2 Hydraulics	56
12.3 Electronics	56
13. WARRANTY	57
13.1 Warranty Statement	57

14. PARTS	58
14.1 840 Seed Express 80409 (840), 80410 (1050), 80411 (1260)	58
14.2 Incline Conveyor 80630	58
14.2.1 Collection Detail	59
14.2.2 Tube Detail	60
14.2.3 Discharge Detail	61
14.3 Ladder Detail	62
14.4 Trailer Detail 80360	63
14.5 Hydraulic Power System 36043	64
14.6 Underbin Conveyor 80138 (840), 80139 (1050), 80140 (1260)	65
14.6.1 Discharge Detail	66
14.7 Decals and Lighting	67
14.8 Conveyor Arm Detail 36039	68
14.9 Electrical And Hydraulic Control Cabinet 36044	70
14.10 Slide Gate Detail	71
14.11 Seed Compartment Detail	72

1. INTRODUCTION

1.1 CONGRATULATIONS

Congratulations on your choice of a Meridian Manufacturing Group, Inc. 840/1050/1260 Seed Express Bulk Seed Tender to complement your seed delivery system in your farming operation. This equipment has been designed and manufactured to meet the exacting standards for such equipment in the agricultural industry and will keep your seed delivery system at optimum efficiency. The 840 model has four seed compartments, the 1050 has five, and the 1260 has six.



The Bulk Seed Tender system is designed to handle any kind of bulk seed, quickly transport it, and then off-load the seed either through the conveyor tube to the desired location or into an in-ground pit using just the underbin conveyor. These units are not intended to be used off-road or in a cultivated field.

Safe, efficient, and trouble-free operation of your Bulk Seed Tender requires that you and anyone else who will be operating or maintaining the machine, read and understand the Safety, Operation, Maintenance, and Troubleshooting information contained within this Operator's Manual.

This manual covers the Seed Express 840/1050/1260 models manufactured by Meridian Manufacturing Group, Inc. Use the Table of Contents and Index as a guide to locate required information.

1.2 OPERATOR ORIENTATION

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

1.3 OWNER/OPERATOR

It is the responsibility of the owner or operator to read this manual and to train all other operators before they start working with the machine. Follow all safety instructions exactly. Safety is everyone's business. By following recommended procedures, a safe working environment is provided for the operator, bystanders, and the area around the work site. Untrained operators are not qualified and must not operate the machine.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment. It is the responsibility of the owner or operator to read this manual and to train all operators before they start working with the machine. Follow all safety instructions as laid out in this manual.

Keep this manual handy for easy reference and to pass on to new operators or owners. Call your Meridian Manufacturing Group, Inc. dealer if you need assistance, information, or additional copies of the manuals.

The information, specifications, and illustrations in this manual are those in effect at the time of printing. We reserve the right to change specifications or design at any time without notice.



2. SAFETY

SAFETY ALERT SYMBOL

This Safety Alert symbol means
ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED!



The Safety Alert symbol identifies important safety messages on the Meridian Bulk Seed Tender Models and in the manual. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

WHY IS SAFETY IMPORTANT TO YOU?

3 Big Reasons

- Accidents Disable and Kill •
- Accidents Cost •
- Accidents Can Be Avoided •

SIGNAL WORDS:

Note the use of the signal words **DANGER**, **WARNING**, and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines:



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



WARNING - Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



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

If you have any questions not answered in this manual, require additional copies of the manual, or the manual is damaged, please contact your dealer or Meridian Manufacturing Group, 2902 Expansion Blvd., Storm Lake, Iowa, 50588, toll free 1-800-437-2334, phone (712) 732-1780, or fax (712) 732-1028.

YOU are responsible for the **SAFE** operation and maintenance of your Meridian Manufacturing Group bulk seed tender Seed Express delivery system. **YOU** must ensure that you and anyone else who is going to operate, maintain, or work around the Bulk Seed Tender be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alert you to all good safety practices that should be adhered to while operating the Bulk Seed Tender system.

Remember, **YOU** are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follow all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Bulk Seed Tender system owners must give operating instructions to operators or employees before allowing them to operate the machine, and then annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety feature on this equipment is a **SAFE** operator. It is the operator's responsibility to read and follow **ALL** Safety and Operating instructions in the manual. Most accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death. Always be and stay alert to any possible unsafe operating or maintenance procedures or conditions.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety of the components and systems and could affect the life of the equipment, possibly invalidating the warranty coverage.
- Think SAFETY! Work SAFELY!

2.1 GENERAL SAFETY

1.  Read and understand the Operator's Manual and all safety signs before operating, maintaining, adjusting, filling, unloading, or unplugging the Bulk Seed Tender system.
2.  Have a first aid kit available for use should the need arise and know how to use it.
3.  Have a fire extinguisher available for use should the need arise and know how to use it.
4.  Do not allow riders.
5. When working around or operating this equipment, wear appropriate personal protective equipment. This list includes but is not limited to:







 - A hard hat
 - Protective shoes with slip resistant soles
 - Protective goggles, glasses, or face shield
 - Heavy gloves and protective clothing
 - Respirator
6.  Do not allow long hair, loose fitting clothing, or jewelry around equipment.
7.  Install and secure all guards before starting.
8.  Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.
9.   Establish a lock-out or tag-out policy for the work site. Be sure all personnel are trained in and follow all procedures. Lock-out or tag-out all power sources before working around loading/unloading equipment.
10.  Clear the area of people, especially small children, before starting.
11.  Review safety related items annually with all personnel who will be operating, using, or maintaining the bulk seed tender system.

2.2 EQUIPMENT SAFETY GUIDELINES

1. Safety of the operator and bystanders is one of the main concerns in designing and developing a machine. 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. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury or death, study the following precautions and insist those working with you, or for you, follow them.
2. In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.
3. Never use alcoholic beverages or sedative drugs while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.
4. **Under no circumstances should young children be allowed to work with this equipment. Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and how it works.** Review the safety instructions with all users annually.
5. This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible, properly trained, and physically able person familiar with farm machinery and trained in this equipment's operations. If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.
6. 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.**
7. Do not modify the equipment in any way. Unauthorized modification may result in serious injury or death and may impair the function and life of the equipment.

8. In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer to Safety Messages and operation instruction in each of the appropriate sections of the auxiliary equipment and machine Manuals. Note all Safety Signs affixed to the auxiliary equipment.

2.3 SAFETY TRAINING

1. Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator or bystander.
2. In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of this equipment.
3. The best safety feature is an informed, careful operator. It is the operator's responsibility to read and comply with ALL Safety and Operating instructions in the manual. Accidents can be avoided.
4. Working with unfamiliar equipment can lead to injuries. Read this manual, as well as the manual for your auxiliary equipment, before assembling or operating to acquaint yourself with the machines. If this machine is used by any person other than yourself, it is your responsibility to make certain that the operator reads and understands the operator's manuals and is instructed in safe and proper use.
5. Know your controls and how to immediately stop augers, conveyors, and any other auxiliary equipment in an emergency. Read this manual and the one provided with all auxiliary equipment.
6. Train all new personnel and review instructions frequently with employees. Be certain only a properly trained and physically able person will operate the machinery. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.

2.4 SAFETY SIGNS

-  Keep safety signs clean and legible at all times. Replace any safety sign or instruction sign that is missing or not legible. Refer to the Safety Sign Location section for additional information.
- When parts that displayed a safety sign are replaced, the replacement should also display the safety sign.
- Replacement safety signs (labels) are available from your authorized Dealer Parts Department or the factory at no cost.

2.4.1 How to Install Safety Signs

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Determine exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using a piece of sign backing paper.

2.5 PREPARATION SAFETY

-  Never operate the seed delivery system and auxiliary equipment until you have read and completely understand this manual, the auxiliary equipment Operator's Manual, and each of the Safety Messages found on the safety signs on the delivery system and auxiliary equipment.

-  **PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!** Motors or equipment can be noisy enough to cause permanent or partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the operator's position exceeds 80db. NOTE: Hearing loss from loud noise (tractors, chain saws, radios, and other such sources close to the ear) is cumulative over a lifetime with uncertain natural recovery.

-  Clear working area of debris, trash, or hidden obstacles that might be hooked or snagged, causing injury, damage, or tripping.

- Operate only in daylight or good artificial light.

- Be sure machine is properly attached to the trailer, adjusted, and in good operating condition.

-  Ensure that all guards, shielding, and safety signs are properly installed and in good condition.

-  Before starting, give the machine a "once over" for any loose bolts, worn parts, cracks, leaks, frayed belts, and make necessary repairs. Always follow maintenance instructions.

2.6 OPERATING SAFETY

-  Make sure that anyone who will be operating the bulk seed delivery system or working on or around the unit reads and understands all the operating, maintenance, and safety information in the operator's manual.

-  Keep all bystanders, especially children, away from the machine when loading or unloading, or when authorized personnel are carrying out maintenance work.

-  Establish a lock-out or tag-out policy for the work site. Be sure all personnel are trained in and follow all procedures. Lock-out or tag-out all power sources before servicing the unit or working around loading/unloading equipment.

4.  Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.
5.  Keep working area clean and free of debris to prevent slipping or tripping.
6.  Do not allow riders on the trailer or frame when transporting.
7.  Keep hands, feet, hair, and clothing away from rotating parts.
8.  Do not place hands, fingers, or arms between moving parts.
9.  Stay away from overhead power lines. Electrocutation can occur without direct contact.
10.  Install and secure all guards before starting.
11.  Use care when climbing on frame or ladder to prevent slipping or falling.
12.  Fasten frame securely to trailer before transporting.
13.  Review safety related items annually with all personnel who will be operating, using, or maintaining the seed delivery system.
14.  Do not place hands, fingers, or arms into the slide gates.

2.7 MAINTENANCE SAFETY

1. Good maintenance is your responsibility. Poor maintenance is an invitation for trouble.
2. Follow good shop practices.
3.  Ensure proper ventilation. Never operate the engine in a closed building. The exhaust fumes may cause asphyxiation.
4.  Before working on this machine, shut off the engine and remove the ignition keys.
5.  Never work under equipment unless it is securely blocked.

6.  Always use personal protection devices, such as eye, hand, and hearing protectors, when performing any service or maintenance.
7.  Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to the original specifications. The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.
8.  A fire extinguisher and first aid kit should be readily accessible while performing maintenance on this equipment.
9.  Periodically tighten all bolts, nuts, and screws and ensure all cotter pins are properly installed to ensure unit is in safe condition.
10.  When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.
11.  Turn OFF all electrical power and tag or lockout the power source before performing any electrical test or before connecting or disconnecting valve coils or other electrical loads.
12.  Never operate or test any function of the equipment when people are in an area of a potential crush hazard.

2.8 LOCK-OUT OR TAG-OUT SAFETY

1.  Establish a formal Lock-Out or Tag-Out program for your operation.
2.  Train all operators and service personnel before allowing them to work around the seed delivery system.
3.  Provide tags on the machine and a sign-up sheet to record tag-out details.

2.9 STORAGE SAFETY

1. Store the unit in an area away from human activity.
2. Do not permit children to play on or around the stored machine.
3. Store the unit in a dry, level area. Support the frame with planks, if required.

2.10 TRANSPORT SAFETY

1.  Comply with local, state, and federal laws governing safety and conveyance of farm machinery on public roads.
2. Ensure all lights, reflectors, and other lighting requirements are installed and in good working condition.
3. Ensure that the trailer brakes are in good working order. Be familiar with their operation.
4. Do not exceed a safe travel speed. Slow down for rough terrain and when cornering.
5.  Make sure frame is securely fastened to trailer before transporting.
6. Be sure the trailer is securely hitched to the towing vehicle.
7.  Stay away from overhead power lines. Electrocutation can occur without direct contact.
8. Plan your route to avoid heavy traffic.
9. Do not drink and drive.
10. Be a safe and courteous driver. Yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Watch for traffic when operating near or crossing roadways.
11.  Never allow riders on the tender or the trailer.

2.11 REFUELING SAFETY

1.  Handle fuel with care. It is highly flammable.
2.  Allow engine to cool for five minutes before refueling. Clean up spilled fuel before restarting engine.
3.  Do not refuel the machine while smoking or when near open flame or sparks.
4. Fill fuel tank outdoors.
5.  Prevent fires by keeping machine clean of accumulated trash, straw, grease, and debris.

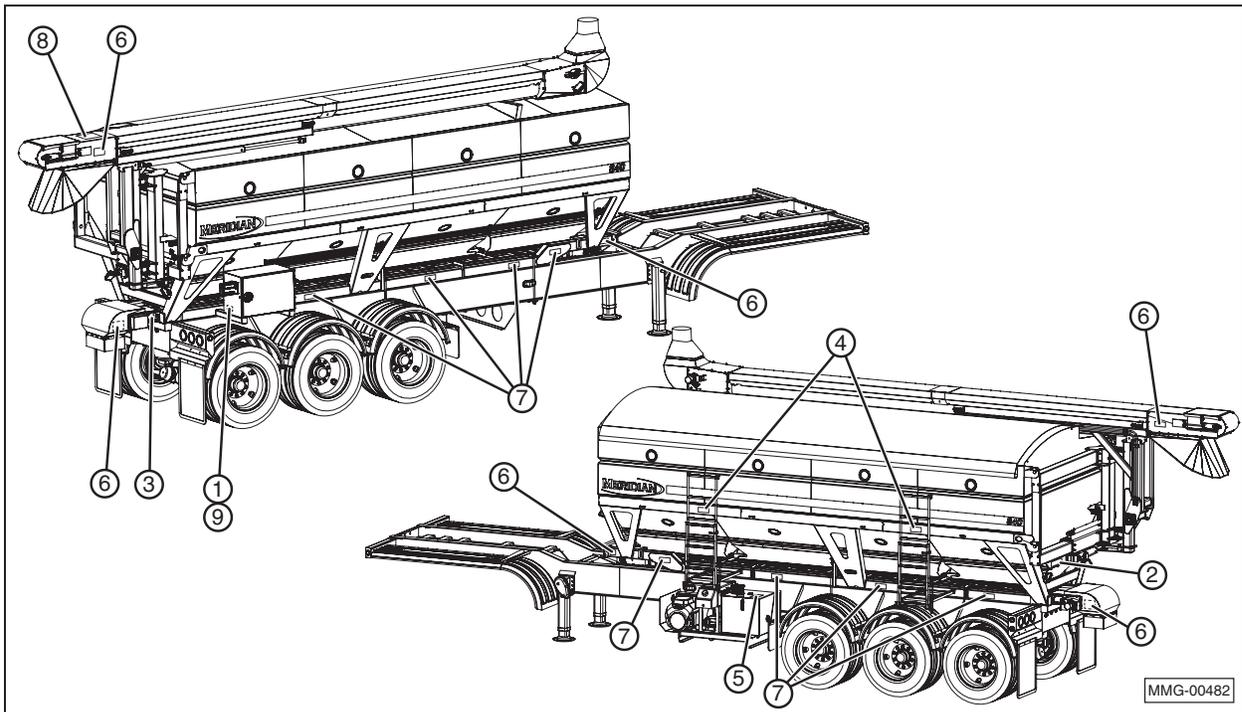
2.12 BATTERY SAFETY

1.  Keep all sparks and flames away from batteries, as gas given off by electrolyte is explosive.
2. Avoid contact with battery electrolyte: wash off any spilled electrolyte immediately.
3.  Wear safety glasses when working near batteries.
4. Do not tip batteries more than 45 degrees, to avoid electrolyte loss.
5.  To avoid injury from spark or short circuit, disconnect battery ground cable before servicing any part of electrical system.

3. SAFETY SIGN LOCATIONS

The types of safety signs and locations on the equipment are shown in the following pages. Good SAFETY AWARENESS requires that you familiarize yourself with the various safety signs, the type of warning and the area, or a particular function related to that area.

REMEMBER - If safety signs have been damaged, removed, become illegible, or parts replaced without signs, new signs must be applied. New safety signs are available from your authorized dealer free of charge.



1. CAUTION — Read and Understand (#19934)

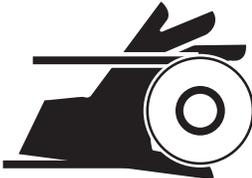
 CAUTION

<ul style="list-style-type: none"> • Read and understand the Operator's Manual before using. Review safety instructions annually. • Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging. • Keep working area clean and free of debris to prevent slipping or tripping. • Do not allow riders on the trailer or frame when transporting. • Only enter seed compartment when it is empty. • Keep hands, feet, hair, and clothing away from moving parts. • Do not place hands, arms, or body between seed box and frame or lid to prevent pinching or crushing. Components can move unexpectedly. • Do not place hands, fingers, or arms between unloading auger tube segments when placing in unloading configuration. • Stay away from overhead power lines. Electrocutation can occur without direct contact. • Install and secure all guards before starting. • Use care when climbing on frame or ladder to prevent slipping or falling. • Do not smoke when refuelling or working around machine. • Fasten frame securely to trailer before transporting. • In two compartment seed tenders, always empty Compartment 2 first to prevent an unbalanced load. An unbalanced load can cause hitch to upend.
<small>19934</small>

2. Product Serial Number Decal (#19984)



3. DANGER — Entanglement Hazard (#18435)
(located under belt tensioning cover)

 <b style="font-size: 1.2em;">DANGER

<b style="font-size: 1.1em;">ENTANGLEMENT HAZARD Guard Has Been Removed.
<p>Entanglement with moving parts will cause serious injury or death:</p> <ul style="list-style-type: none"> • Do not operate without guard. • Install guard before operating.
18435

4. WARNING — Fall Hazard (#19939)

 <b style="font-size: 1.2em;">WARNING

<p style="text-align: center;"><b style="font-size: 1.1em;">FALLING HAZARD</p> <p>Avoid serious injury or death from falling:</p> <ul style="list-style-type: none"> • Grip the ladder with both hands when climbing to prevent slipping or falling. • Keep rungs clean to prevent slipping.
19939

5. WARNING — Hot Surface (#20088)

 <b style="font-size: 1.2em;">WARNING	
	<p style="text-align: center;">HOT SURFACE</p> <ul style="list-style-type: none"> • Serious Injury May Occur • Do Not Touch When Operating

6. WARNING — Rotating Part (#19937)

 <b style="font-size: 1.2em;">WARNING	
<b style="font-size: 1.1em;">ENTANGLEMENT HAZARD	
	<p>Entanglement with moving parts could cause serious injury or death:</p> <ul style="list-style-type: none"> • Do not operate without guard. • Avoid contact with rotating parts. • Stay clear of moving parts.
19937	

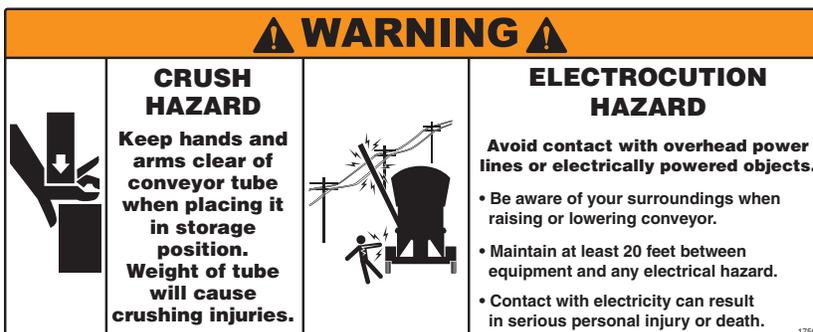
7. DANGER — Pinch Point (#20087)



8. WARNING — Entanglement Hazard (#17770)

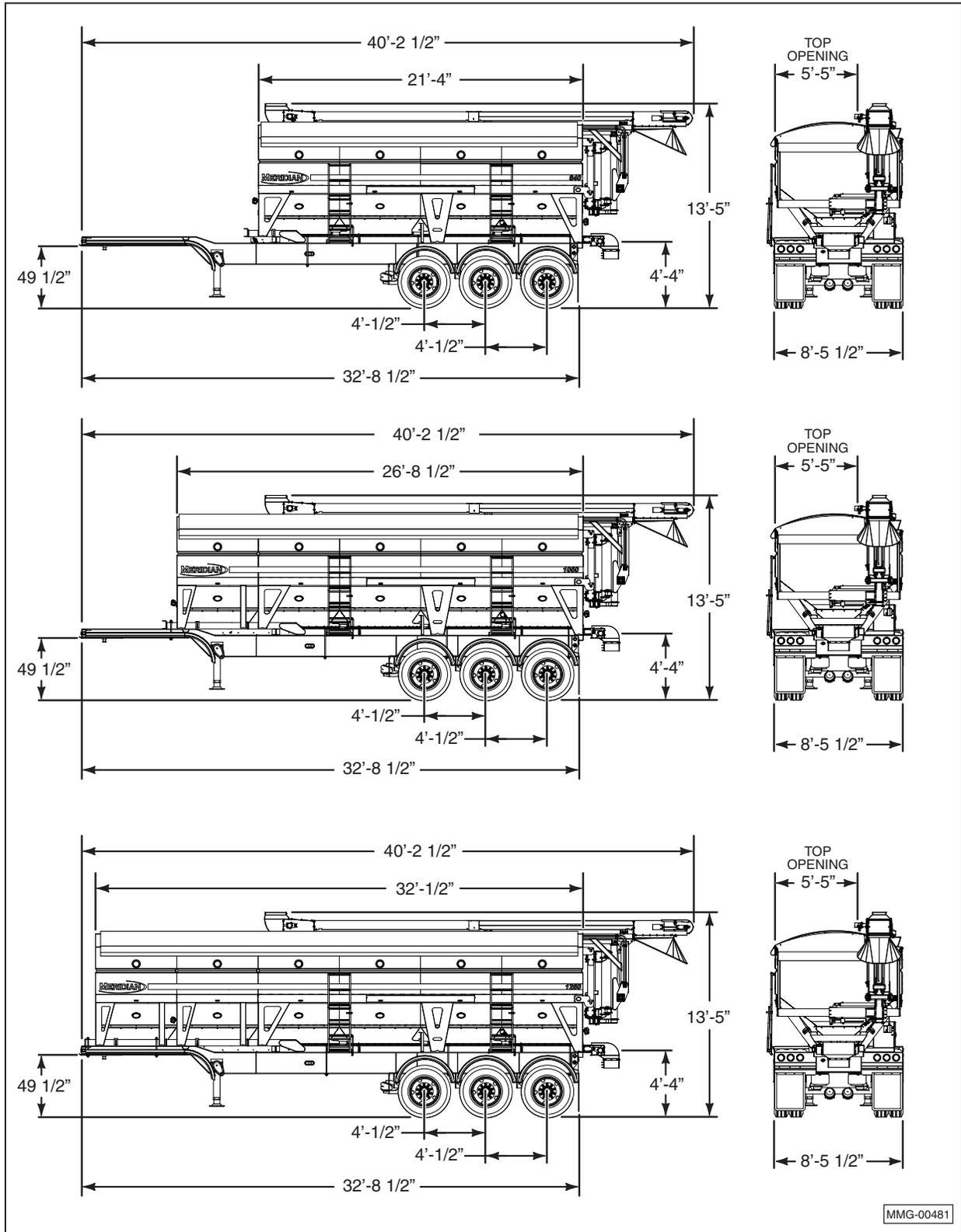


9. WARNING — Crush Hazard / Electrocutation (#17509)



4. SPECIFICATIONS

4.1 OVERALL SEED TENDER SPECIFICATIONS



4.2 BOLT SPECIFICATIONS

WARNING

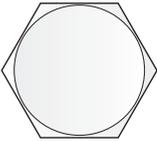
The torque value for bolts and capscrews are identified by their head markings. Replacing higher “Grade” bolts (Grade 8) with lower Grade bolts (Grade 5) will lead to equipment failure and can result in injury or death. Always use replacement bolts with the same Grade markings as the removed bolt.

4.2.1 Bolt Torque Values

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 instructed in this manual. When using locking elements, increase torque values by 5%.

Bolt Diameter “A”	SAE Grade 2		SAE Grade 5		SAE Grade 8	
	N-m (lb-ft)		N-m (lb-ft)		N-m (lb-ft)	
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	(70)	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)

4.2.2 Bolt Grade Markings Chart

 No Marking	Grade 2 Low or Medium Carbon Steel
 3 Radial Lines	Grade 5 Medium Carbon Steel Quenched and Tempered
 6 Radial Lines	Grade 8 Medium Carbon Alloy Steel, Quenched and Tempered

5. MACHINE COMPONENTS AND CONTROLS

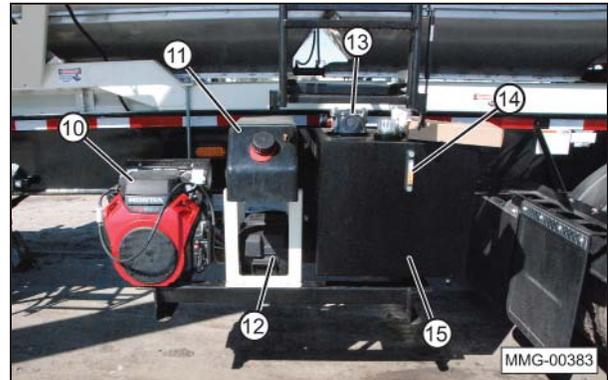
5.1 COMPONENT NOMENCLATURE AND LOCATION

The Meridian 840/1050/1260 Seed Express models are designed as bulk seed transfer units to transfer large amounts of seed into a storage bin or other equipment.

Bulk seed is loaded into the seed tender compartments. Underbin conveyor (6) then transfers the seed from the compartments to incline conveyor (20), which transfers the seed to the receiving bin, seed box, or another seed tender. The underbin conveyor can also be used alone to unload seed straight out the back of the tender. Slide gates on the compartments control the flow of seed into the underbin conveyor. The compartments are numbered starting with #1 at the back of the tender and continuing to the front. The 840 model has four compartments, the 1050 has five, and the 1260 has six.

Gasoline engine (10) mounted on the frame powers two hydraulic pumps, which operate the hydraulic motors for the conveyors and control cylinders which raise, lower, and rotate the conveyor; open and close the slide gates.

The incline conveyor is mounted on pivoting frame (9) that rotates 120°. A spout on the end of the conveyor allows for convenient distribution.



(10) Gasoline Engine to Power Hydraulic Pumps. (11) Fuel Tank. (12) Battery. (13) Hydraulic Oil Filter. (14) Hydraulic Tank Oil Level Sight Gauge. (15) Hydraulic Tank.



(16) Coupling (Engine to Pumps). (17) Hydraulic Pumps.



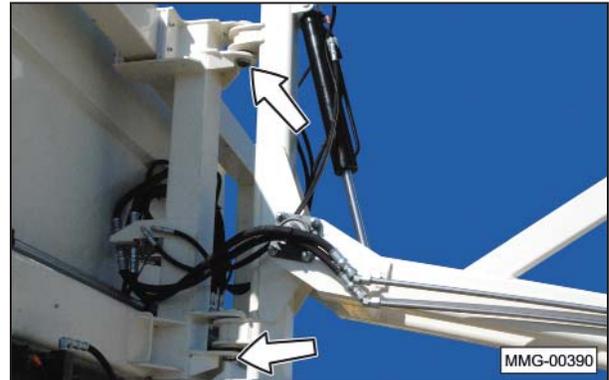
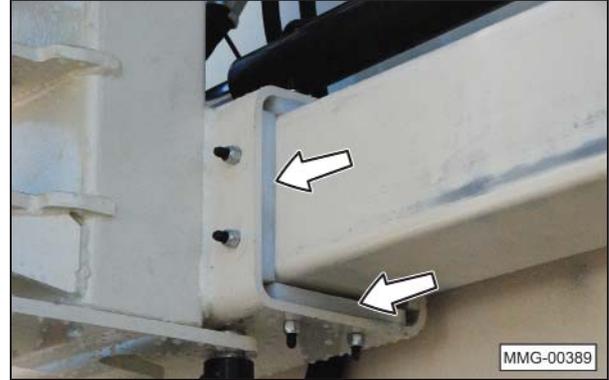
(1) Seed Compartments. (2) Hopper. (3) Seed Tender Frame. (4) Control Panel and Wireless Remote Control (not shown). (5) Trailer. (6) Underbin Conveyor. (7) Incline Conveyor in Transport Position. (8) Delivery Spout. (9) Pivot Frame.



(18) Roll-up Tarp. (19) Bin Slide Gates and Cylinders. (20) Incline Conveyor in Unloading Position.



Document Storage Canister Location.



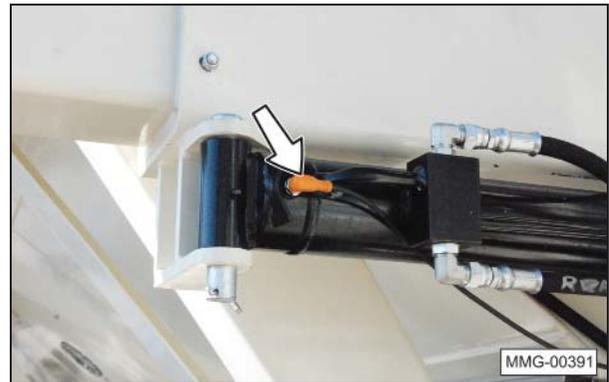
Conveyor Slides and Pivot Bushings with UHMW Polyethylene Inserts for Maintenance Free Operation.



Wireless Remote Control Transmitter and Belt Tether Storage Location.



Belt Tether for Wireless Remote Control.



Cylinder Position Sensor Wires On Conveyor Slide/Swing/Fold Cylinders.

NOTICE

Cylinder Position Sensors are necessary for the Auto Fold/Unfold feature. If these wires are damaged, the automatic features will not function.

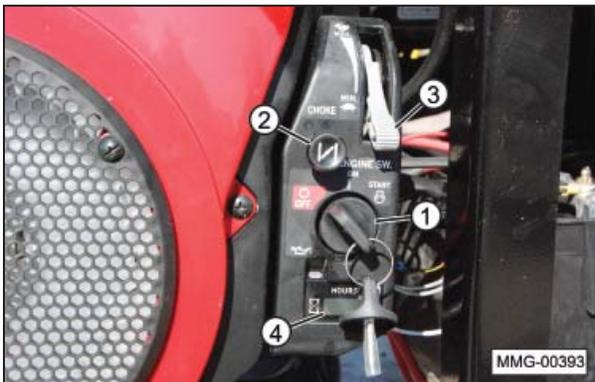
5.2 ENGINE AND CONTROLS

A Honda® engine is used with the unit. Always read the engine Operator's Manual supplied with the seed tender for the detailed operating procedures.



Electrical System Key Switch (1)

This key switch controls the power to the electrical system. Turn the key clockwise to turn the electrical system ON. The key must be in the ON position for the engine to start. Turn the key clockwise to the START position to start the engine. Turn the key counterclockwise to stop the engine and turn OFF the electrical system.



Choke Knob (2)

The choke knob controls the fuel/air mixture to the engine. Pull to close the choke when starting if the engine is cold. Open the choke as the engine warms. Always open the choke fully during operation.

Throttle Lever (3)

This lever controls the engine RPM. Move the lever up to increase RPM or down to decrease RPM. Always run at maximum throttle while operating.

Hour Meter (4)

After starting the engine, the total time of engine operation will be displayed. It will not display the time of engine operation by just turning the key switch ON.

Battery (12 Volt) (5)

A 12 Volt battery supplies the power to start the gasoline engine. When the engine is operating, a trickle charge is sent to the battery to keep it fully charged.



Fuel Cut Solenoid (Not Shown)

The engine is equipped with a fuel cut solenoid that allows fuel to flow to the carburetor when the engine switch is in the ON or START position and stops the flow of fuel to the carburetor when the engine switch is in the OFF position. The engine must be connected to the battery to energize the fuel cut solenoid, allowing the engine to run. If the battery is disconnected, fuel flow to the carburetor will stop.

5.3 CONTROL SYSTEM FUNCTIONS

5.3.1 Control Functions

The controls on this panel are intended to be used only as a backup resource. All of the functions of the seed tender can more easily be controlled using the handheld remote transmitter.



Work Lights (1)

This switch controls the (4) work lights on the tender.

Gate Select (2)

This switch selects the active slide gate. The active gate is displayed on the wireless remote control.

Gate Open/Close (3)

This switch opens and closes the active slide gate. Press and hold the switch UP to open the slide gate; press and hold the switch DOWN to close the slide gate. The opening can be varied to provide the desired flow rate of seed onto the conveyor belt.

Auto Fold/Unfold (4)

Press and hold this switch to fold/unfold the incline conveyor

Engine Start/Stop (5)

Press and hold this switch up until the engine starts. The key must be in the ON position for the engine to start. Also set the choke lever on the engine when starting the engine. Press and hold this switch down to turn OFF the engine.

Conveyor On and Off (6)

This toggle switch starts and stops the conveyor belts. The two conveyor belts are automatically synchronized. Press the toggle switch UP to start the conveyor. Press the toggle switch DOWN to stop the conveyor. The incline conveyor belt will not operate unless the incline conveyor is unfolded.

Conveyor Rotate Left and Rotate Right (7)

This switch rotates the conveyor to the right or left. Press the switch down to rotate the conveyor towards the left of the unit. Press the switch up to rotate the conveyor towards the right of the unit.

Conveyor Swing Over and Back (8)

This switch raises and lowers the conveyor. Press the switch UP to raise the conveyor. Press the switch DOWN to lower the conveyor.

Slide Right/Center (9)

Press and hold this switch to position the incline conveyor to the center (under the underbin conveyor) or to the right (transport position).

EMERGENCY STOP (10)

Pressing this button will cause all functions to stop and shut off the engine.

To reset the Emergency Stop, first eliminate the condition that caused the operator to use the Emergency Stop. Then rotate the knob clockwise and allow it to reset itself.

The unit will not start with this button pressed in.

5.3.2 Control System Compliance Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference. This equipment generates radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to the reception of other electronics, which can be determined by turning the equipment off and on, DO NOT operate this equipment around those devices.

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to electronic device reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the user's authority to operate this equipment.

5.4 WIRELESS REMOTE TRANSMITTER

The wireless remote control system is a state-of-the-art microprocessor based Radio Frequency (RF) control system. It provides the operator the ability to operate the seed tender from the control panel or from the wireless handheld remote transmitter.

Each radio remote transmitter is designed to operate on one of five RF channels. The receiver will respond only to a remote transmitter on the correct channel. If multiple systems are to work in close proximity to one another, ensure they are on different channels to operate without interference.

The channel number is displayed on the remote transmitter startup screen. In the event that a remote transmitter becomes damaged and a new one is needed, the new remote transmitter must be on the same channel.

All of the normal functions of the seed tender can be controlled by the remote transmitter.

NOTICE

If the signal from the remote transmitter is lost during operation for any reason, all functions will automatically shut down. To restore function, turn the remote transmitter off and then back on. Restart the gasoline engine.



5.4.1 Functions of Keypad Buttons

Use the buttons on the keypad to operate the desired functions of the seed tender.



Off/On/Start (1)

Rotate switch to the On position (1) to turn remote transmitter ON. Rotate it to the Off position to turn it OFF.

To save battery life, the remote transmitter will automatically turn off when it is idle (no functions are used) for a period greater than the sleep time. If the transmitter times out, it will need to be turned off and then back on again to restart.

EMERGENCY STOP (2)

Pressing this button will cause all functions to stop and shut off the engine.

To reset the Emergency Stop, first eliminate the condition that caused the operator to use the Emergency Stop. Rotate the red button either clockwise or counterclockwise until it pops back up. The unit will not start while the button is pressed in. Then rotate switch (1) to the OFF position, and back ON.

ENGINE START (3)

To start the engine, simultaneously press the Engine Start button and rotate the switch to the START position. Press the Engine Stop button to turn OFF engine.



GATE SELECT (4)

The Gate Select button sets the active slide gate. The gate number of the active gate is displayed on the screen.



CONV ON/CONV OFF (6)

Press the CONV ON button to start the conveyors. Press the CONV OFF button to stop the conveyors. Press the CONV ON button additional times to increase conveyor speed. Each press of the button increases the speed by 25%.



GATE OPEN/GATE CLOSE (5)

Press and hold the GATE OPEN button to open the active slide gate. Press and hold the GATE CLOSE button to close the active slide gate. The opening can be varied to provide the desired flow rate of seed onto the conveyor belt.



SWING OVER/SWING BACK (7)

These buttons raise and lower the conveyor. Press and hold the SWING OVER button to raise the conveyor. Press and hold the SWING BACK button to lower the conveyor.



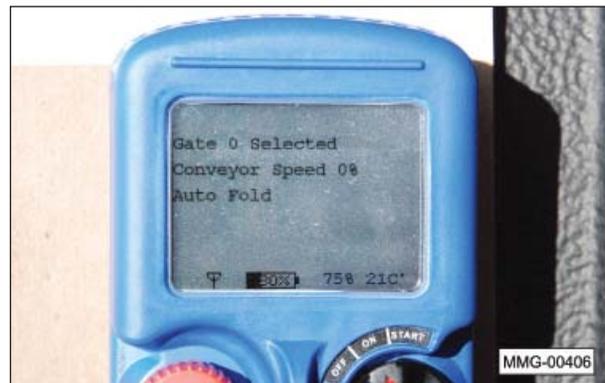
Auto Fold/Auto Unfold (9)

Press and hold the auto unfold button to unfold the incline conveyor from its transport location and slide to the center for unloading. There are no other actions necessary to complete this process; the cylinder movements are pre-programmed. When finished unloading, press and hold the Auto Fold button to return the conveyor to its transport location.



CONVEYOR ROTATE LEFT AND ROTATE RIGHT (8)

These buttons rotate the conveyor to the right or left. Press and hold the rotate left button to rotate the conveyor towards the left of the unit. Press and hold the rotate right button to rotate the conveyor towards the right of the unit.



5.4.2 Remote Disable Feature

As an added security feature, the Remote Control Unit can be disabled by removing the ON/OFF/START knob. To utilize this feature, rotate the knob counterclockwise until it stops, then pull upward. Store the knob in a safe location.



6. PRE-OPERATING INSTRUCTIONS

6.1 MACHINE BREAK-IN PERIOD

A special break-in procedure has been developed to ensure the integrity of the seed tender when first put into service. Follow the Before Starting instructions and then follow the Inspections for 1/2, 5, and 10 Hours instructions at the appropriate interval.

After completing these instructions, follow the normal service schedule in the Maintenance section and engine manual.

6.1.1 Before Starting

1. Read and follow the instructions in the Honda® engine and the Meridian Operator's Manuals.
2. Review and follow the Pre-operation Checklist before starting machine.
3. Initially check wheel bolt torque and then again at 50 miles. Refer to "10.6 Wheel Bolt Torque Requirements" on page 52 in this manual for tightening instructions.
4. Start the engine and check the controls. Be sure that they function properly.

6.1.2 Inspections for 1/2, 5, and 10 Hours

1. Recheck machine fluid levels. Refill as required.
2. Recheck the tension and alignment of the conveyor belts.
3. Recheck hardware and fasteners; frame to trailer tie-downs, all fasteners, and wheel bolts. Tighten to their specified torque.
4. At 10 hours, change the engine oil with the specified oil.

6.2 PRE-OPERATION CHECKLIST

Efficient and safe operation of the Meridian Bulk Seed Tender system requires that each operator reads and follows the operating procedures and all related safety precautions outlined in this section.

A pre-operational checklist is provided for the operator. It is important for both personal safety and maintaining the efficient operation of the delivery system that this checklist be followed.

Before operating the delivery system and each time thereafter, the following areas should be checked:

1. Lubricate the machine, as shown in the Grease/Lubrication Location Diagram. Refer to "9.1 Greasing" on page 42 in the Maintenance section of this manual. Follow the prescribed schedule.

Check the engine fuel and crankcase oil levels. Add as required. "10.3 Engine" on page 47

NOTICE

The engine is equipped with a shutoff system to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the indicator (red) comes on and the engine will automatically stop (the engine switch will remain in the ON position). If the engine stops and will not restart, check the engine oil level before troubleshooting in other areas.

2. Check hardware and fasteners; seed tender frame to trailer tie-downs, hitch bolts, trailer hitch to trailer bolts, and all other fasteners. Tighten to their specified torque. Refer to "4.2.1 Bolt Torque Values" on page 23.
3. Make sure the wheel bolt lug nuts are tight. Refer to "10.6 Wheel Bolt Torque Requirements" on page 52.
4. Check the tires and ensure that they are inflated to their specified pressure.
5. Visually inspect the conveyor and frame for damage.
6. Test the trailer brakes.
7. Check the fluid level in the hydraulic tank. Add fluid as needed.
8. Check the tension of the conveyor belts. Follow the instructions in the manual to correct the tension and/or alignment. Refer to "10.5 Underbin Conveyor" on page 50.
9. When the machine is operating, check the alignment of the conveyor belts. Follow the instructions in the manual to correct the tension and/or alignment. Refer to "10.5 Underbin Conveyor" on page 50.

7. OPERATION



OPERATING SAFETY

- Make sure that anyone operating the seed delivery system or working on or around the unit reads and understands all the operating, maintenance, and safety information in the Operator's Manual.
- Keep all bystanders, especially children, away from the machine when loading or unloading is being done, or when authorized personnel are carrying out maintenance work.
- 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 loading/unloading equipment.
- Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.
- Keep working area clean and free of debris to prevent slipping or tripping.
- Do not allow riders on the trailer or tender when transporting.
- Keep hands, feet, hair, and clothing away from moving parts.
- Do not place hands, arms, or body between components to prevent pinching or crushing. Components can move unexpectedly.
- Stay away from overhead power lines. Electrocutation can occur without direct contact.
- Install and secure all guards before starting.
- Use care when climbing on frame or ladder to prevent slipping or falling.
- Do not smoke when refueling or working around machine.
- Ensure the frame is securely fastened to trailer before transporting.
- Review safety related items annually with all personnel who will be operating, using, or maintaining the seed delivery system.

7.1 CONNECTING THE TRAILER

1. Complete the Pre-operation Checklist. Verify the fifth wheel is in position and greased, with jaws released. If necessary, pull the release lever.

CAUTION



Stay Clear
Ensure that all bystanders, especially small children, are clear of the working area. Ensure there is enough room and clearance to safely back up to the machine.

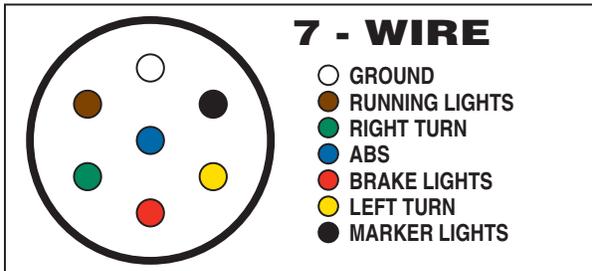
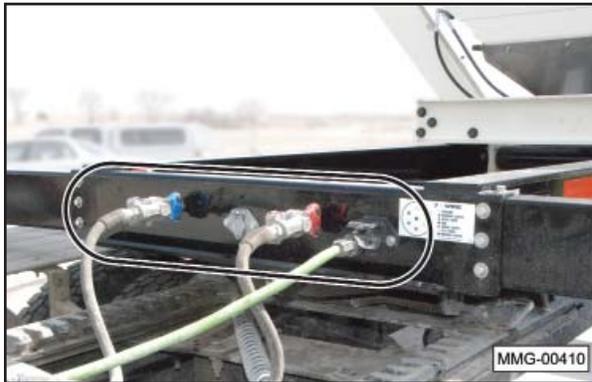
2. Adjust the landing gear to set the trailer height approximately 6" above the bottom of the fifth wheel.



3. Position the tractor in a straight line in front of the trailer, fifth wheel to trailer kingpin.
4. Back under the trailer until the kingpin slides into position.



5. Test the integrity of the coupling by putting the semi in first gear and moving forward no more than six inches.
6. Set the tractor brakes and walk back to the fifth wheel. Verify that the kingpin has locked and the fifth wheel jaws have closed. The release arm must also be in the closed position. If anything is out of place, pull the release lever and repeat Steps 3 through 5.
7. Couple the gladhands and wiring harness.



8. Raise the landing gear.



7.2 OPENING AND CLOSING ROLL-UP TARP

The tender features an electrically operated roll-up tarp. The tarp can be operated from its control panel at the left front of the unit, or from its wireless control unit.



1. Turn the power switch on the control panel to the ON position.



- Open the tarp by pressing and holding the toggle switch. The tarp will stop when fully open, or may be stopped in any intermediate position by releasing the switch.



- The tarp may be opened from the wireless remote by pressing SELECT, then pressing and holding the OPEN button.



Note: The power switch on the control panel must be in the ON position in order for the remote control to function.

- Close the tarp by pressing and holding the CLOSE switch on the control panel or the CLOSE button on the remote control.



7.3 LOADING / UNLOADING

7.3.1 Loading (Filling the Seed Tender)

This Operation section provides a step-by-step procedure for first loading seed into the seed tender compartments. It then shows how to unload the tender into a storage bin or other equipment.

- Connect the seed tender to a semi tractor to safely transport the unit to its desired destination.

SAFETY INSTRUCTIONS

To prevent possible injury, do not load the seed tender unless it is securely fastened to a tractor.

WARNING



Pinch Point Hazard.

Do not reach into the slide gate area for any reason unless the gasoline engine is off and the ignition key removed. Serious injury will result if the gate is activated while any body part is in the opening. Refer to "2. Safety" on page 12.

- Position the tender to fill the desired compartment.

- Before loading the seed tender compartments, make sure the slide gates are in the fully closed (cylinder extended) position. The gasoline engine (hydraulic system) must be operating to close the hydraulically-controlled slide gate cylinders.



- Open the roll-up tarp.



- Fill the seed compartment(s).
- Close the roll-up tarp.

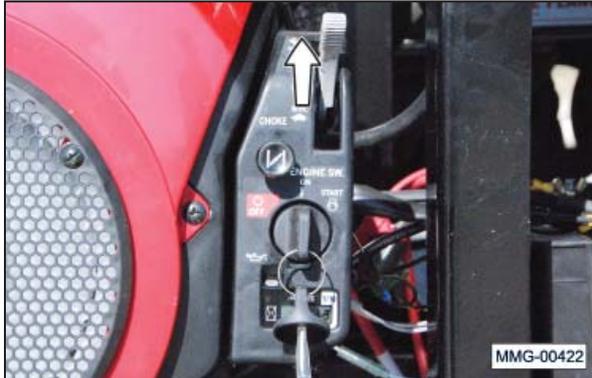


7.3.2 Unloading (Filling the Storage Bin)

- Before unloading, shut off engine on the semi tractor, set the parking brake, and remove the ignition key.
- Pull the choke knob out to start a cold engine. Leave the choke knob pushed in if the engine is warm.



3. Move the throttle lever about 1/3 of the way to the MAX position.



4. Turn the key switch to the START position and hold it there until the engine starts.



5. Warm up the engine for two or three minutes. If the choke knob was pulled out to start the engine, gradually push it in as the engine warms up.
6. Extend the incline conveyor using the Auto Unfold feature.



⚠ WARNING ⚠	
	<p>CRUSH HAZARD</p> <p>Keep hands and arms clear of conveyor tube when placing it in storage position. Weight of tube will cause crushing injuries.</p>
	<p>ELECTROCUTION HAZARD</p> <p>Avoid contact with overhead power lines or electrically powered objects.</p> <ul style="list-style-type: none"> • Be aware of your surroundings when raising or lowering conveyor. • Maintain at least 20 feet between equipment and any electrical hazard. • Contact with electricity can result in serious personal injury or death.

Check the surrounding area for structures or overhead power lines that would contact the conveyor in its raised position. Contact with electricity can result in serious personal injury or death.

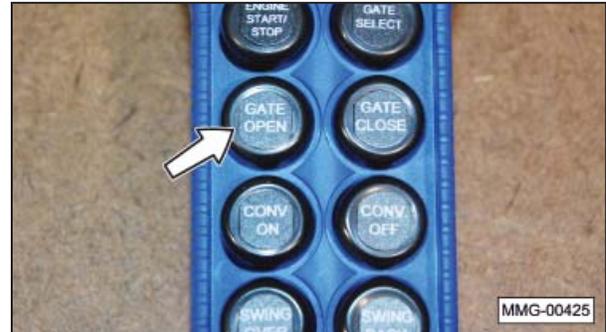
7. Position the incline conveyor as needed to deliver the seed.



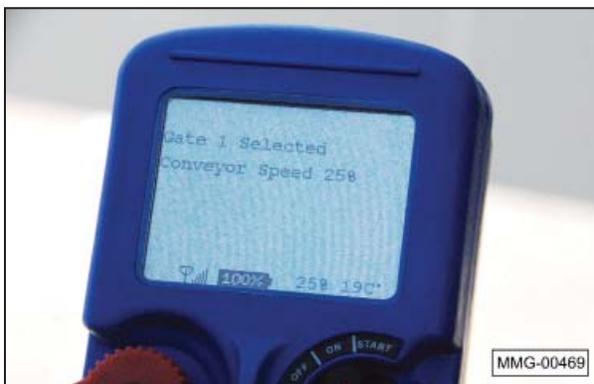
- Select the slide gate for the desired seed compartment.



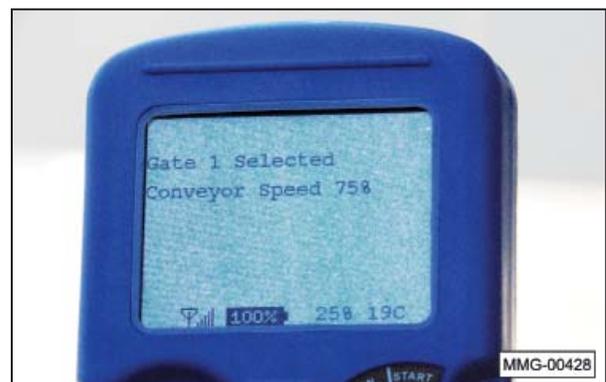
- Open the slide gate for the desired compartment. Hold the button down until the gate is open to the desired amount. The gate will move while the button is depressed and will stop when the button is released or when fully open.



- Start the conveyors.



- Set the desired conveyor speed by pressing the 'CONV ON' button additional times. Each press increases the speed by 25%.



- When finished unloading, close the slide gate. Be sure the gate is fully closed before releasing the 'GATE CLOSE' button.



- When seed stops flowing, stop the conveyor.



7.3.3 Conveyor Swing Adjustment

The incline conveyor rotates 60° to each side for a total swing of 120°. By moving the cylinder pin and re-programming, the conveyor can be adjusted to swing 90° to the left side and 30° to the right.



WARNING



Crush Hazard

The incline conveyor must be restrained whenever the cylinder pin is removed. Serious injury or death can occur if it is allowed to swing freely.

- Ensure the tender is parked on level ground, the semi tractor ignition is off, the parking brake is set, and the key is removed
- Start the engine and unfold the incline conveyor to a vertical position. Check the surrounding area for structures or overhead power lines that would contact the conveyor in its raised position. Contact with electricity can result in serious personal injury or death.

WARNING



ELECTROCUTION HAZARD

To prevent serious injury or death:

- Be aware of overhead objects.
- Maintain at least 20 feet between equipment and any electrical hazard.
- Avoid contact with overhead power lines or electrically powered objects.

Check the surrounding area for structures or overhead power lines that would contact the conveyor in its raised position. Contact with electricity can result in serious personal injury or death.

- Rotate the conveyor to the left as viewed from the driver's seat as far as it will go.
- Immobilize the conveyor tube so that it cannot rotate when the hydraulic cylinder is disconnected.
- Remove the cotter pin and using a suitable tool, remove the conveyor swing cylinder rod end pin.
- Retract the hydraulic cylinder until the rod end aligns with the hole in the swing arm.

WARNING



Crush Hazard

Use caution when activating hydraulic functions while standing in the area of movement. Unexpected movement can cause serious injury or death.

- Reinsert the pivot pin and install a new 5/32 x 1-1/4" cotter pin.

-
8. Release the conveyor tube so that it can rotate.

NOTICE

The conveyor swing cylinder rod end pin must be in the 60°-60° swing position before folding the conveyor into the transport position. Equipment damage will result if the Autofold function is activated while the pivot pin is set for the 90°-30° swing position.

7.3.4 Bottom Dump Feature

This seed tender can also use the bottom dump feature to unload into a floor grate, a self-filling seed tender, or an auger-type conveyor.

1. Select the slide gate for the desired seed compartment.
2. Activate the Conveyor On switch to start the underbin conveyor belt.
3. Open the slide gate for the desired compartment. Hold the button down until the gate is open to the desired amount. The gate will move while the button is depressed and will stop when the button is released or when fully open.
4. Set the desired conveyor speed by pressing the 'CONV ON' button additional times. Each press increases the speed by 25%.
5. When finished unloading, close the slide gate. Be sure the gate is fully closed before releasing the 'GATE CLOSE' button.
6. When seed stops flowing, stop the conveyor.

8. STORAGE

8.1 GENERAL INFORMATION

When the machine will not be used for a period of time, completely inspect all major systems of the seed tender. Replace or repair any worn or damaged components to prevent unnecessary downtime at the beginning of the next season.

IMPORTANT

To prevent component damage, store the seed tender in a dry, level area.

8.2 PLACING IN STORAGE

CAUTION



Stay Clear

Store the unit in an area away from human activity. To prevent the possibility of serious injury, do not permit children to play on or around the stored machine.

1. Remove all seed from the seed tender.
2. Drain the fuel from the gasoline engine and fuel tank, or use a gasoline stabilizer.
3. Thoroughly wash the machine with a pressure washer or water hose to remove all dirt, mud, or debris.
4. Inspect rotating parts for entangled material. Remove all entangled materials.
5. Check the condition of the conveyor belts. Replace or adjust, as required.
6. Check the condition of the hydraulic pump to engine shaft connectors and spider. Replace or adjust, as required.
7. Touch up paint nicks and scratches to prevent rusting.
8. Remove the ignition key and store in a secure place.
9. Remove the battery and store it in a cool, dry area on wooden blocks or a wooden pallet. Charge it monthly to maintain an adequate charge.
10. It is best to store the machine inside.

8.3 REMOVING FROM STORAGE

When removing the machine from storage, follow this procedure:

1. Install and connect the battery.
2. Review and follow the Pre-Operation Checklist. Refer to “6.2 Pre-Operation Checklist” on page 32.
3. Review and follow the Service Checks in the Service Procedures section. Refer to “10.8 Service Checks” on page 54.

IMPORTANT

If the machine has been stored for more than twelve months, warm the engine by running it for two to three minutes and drain the oil. Change the oil while the oil is warm to remove any condensation. Refer to the Engine Oil Change in the Service Procedures section. “10.3.3 Change Engine Oil” on page 47.

9. MAINTENANCE



MAINTENANCE SAFETY

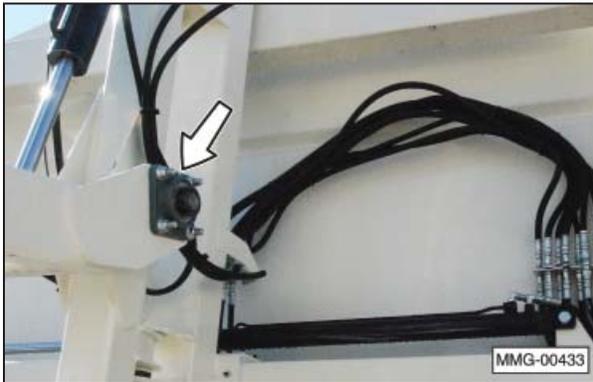
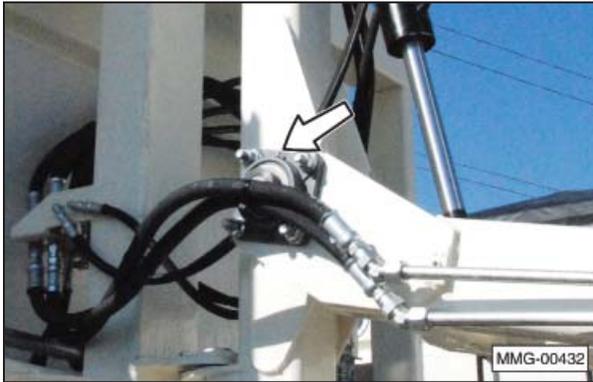
- Good maintenance is your responsibility.
- Follow good shop practices.
 - Keep service area clean and dry.
 - Be sure electrical outlets and tools are properly grounded.
 - Use adequate light.
- Make sure there is plenty of ventilation. Never operate the engine in a closed building. Exhaust fumes may cause asphyxiation.
- Before working on this machine, shut OFF the engine and remove the ignition keys.
- Never work under equipment unless it is securely blocked.
- Always use personal protection devices, such as eye, hand, and hearing protectors, when performing any service or maintenance.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to the original specifications. The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.
- A fire extinguisher and first aid kit should be 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 the unit is in a safe operating condition.
- When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.

9.1 GREASING

Use the Service Checks information in the Maintenance section to keep a record of all scheduled maintenance. Refer to “10.8 Service Checks” on page 54.

1. Use an SAE multi-purpose high temperature grease or a multi-purpose lithium base grease.
2. Use only a handheld grease gun for all greasing. An air-powered greasing system can damage the seals on bearings and lead to early failures.
3. Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.
4. Replace and repair broken fittings immediately.
5. If fittings will not take grease, remove and clean thoroughly. Also, clean lubricant passageway. Replace fitting if necessary.

9.2 GREASE FITTING LOCATIONS



The conveyor raise/lower bearings are equipped with grease zerks.



The hydraulic manifold enclosure box door hinges are equipped with grease zerks.

10. SERVICE PROCEDURES

10.1 REMOTE CONTROL UNIT

The remote transmitter unit is powered by two AA batteries. The display window on the remote transmitter indicates the remaining battery life. When batteries are new, the display indicates 100% power. As the remote transmitter is used, the power decreases. When the battery power becomes low, the batteries should be replaced immediately, or discontinue the use of the remote transmitter.



10.1.1 Battery Replacement Tips

- Check the batteries at least every six months (for low Voltage, leakage, etc.).
- Always use the correct size and type of battery. Replace old batteries with new 1.5 Volt AA, alkaline batteries.
- Always replace both batteries at the same time.
- Do not mix types, brands, or ages of replacement batteries.
- Do not install the batteries backwards. Make sure you insert the batteries with the + (plus) and – (minus) terminals aligned correctly.
- Remove the batteries from the controller if not expected to be in use for several months.
- Do not attempt to recharge a battery unless it is specifically marked “rechargeable.”
- Dispose of old batteries properly.

10.1.2 Battery Replacement

1. Remove the four Phillips head screws from the cover on the bottom of the unit.
2. Replace the batteries, making sure they are correctly positioned.
3. Replace the cover.



10.1.3 Battery Replacement - Roll-Up Tarp Remote Control Unit

1. The roll-up tarp remote control unit is powered by two AAA batteries. When the BATT indicator light turns ON, the batteries should be replaced immediately, or discontinue the use of the remote transmitter.
2. Remove the cover on the back of the unit.
3. Replace the batteries, making sure they are correctly positioned.
4. Replace the cover.



CAUTION

When performing any inspection or maintenance on the remote system, always use care to prevent injury or damage to the equipment. The following are general precautions, which should be closely followed in carrying out any maintenance work.

Do not have hydraulic power available to the valves when performing electrical tests.

Never operate or test any function if any person is in an area where they could be hurt by being hit or squeezed by the hydraulic equipment.

Turn power off before connecting or disconnecting valve coils or other electrical loads.

10.2 HYDRAULIC SYSTEM

10.2.1 Hydraulic Oil Filter Change

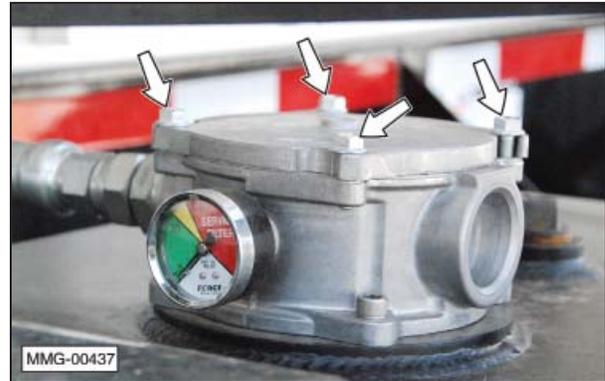


A hydraulic oil filter change is recommended annually or every 400 hours of operation, or whenever the oil filter flow gauge indicates the need for a filter change.

NOTICE

Never run the hydraulic pump unless the hydraulic oil tank is full (indicated in sight level gauge).

1. Loosen the four bolts on the cover, rotate it slightly, and lift off the cover with filter.



2. Remove the old oil filter. Apply a thin coat of oil to the rubber seal of the new oil filter and press into place on the cover.



3. Reinstall the cover and tighten the four bolts.
4. Start the engine and cycle all the cylinders several times.
5. Recheck the oil level in the tank and add as needed.

10.2.2 Hydraulic Oil Change



Annually, a sample of hydraulic oil should be taken to a dealer with oil analysis capability. When analysis shows the need to change the oil, use the following procedure. Use an AW HVI Hydraulic ISO 32 oil.

NOTICE

Never run the hydraulic pump unless the hydraulic oil tank is full (indicated in sight level gauge).

1. Place a large waste oil container under the tank drain port. The hydraulic tank holds approximately forty gallons of oil.
2. Drain the hydraulic tank by removing the drain plug from the tank. Remove the fill cap to allow faster draining of oil. Allow the tank to drain completely. Replace the drain plug.
3. Replace the filter by following steps one through three in Section 10.2.1.
4. Fill the tank to the fill line at the top of the gauge with approximately forty gallons of AW HVI Hydraulic ISO 32 oil. Replace the fill cap.
5. Start the engine and cycle all the cylinders several times.
6. Recheck the oil level in the tank and add as needed.

10.2.3 Hydraulic Pressure Relief Valves

NOTICE

The pressure relief valves have been factory preset for the most efficient operation of the seed tender. Do not adjust these relief valves. If the unit is not operating properly, call your authorized Meridian dealer.

10.2.4 Hydraulic Pump Coupling

Changing the pump coupling does not require the hydraulic tank to be drained. If the pump must be disconnected, drain the hydraulic tank and be prepared to catch any oil that remains in the two hydraulic hoses.



1. Remove the two pump mounting bolts.
2. Pull the pump away from the adapter to separate the coupling halves.



3. Loosen the setscrews in each coupling half and remove the old couplings. Install new couplings on the engine shaft and the pump shaft. When completely assembled, the shaft length in each coupling half should be the same. Tighten the pump end setscrews to 78 to 87 lb-in. Do not tighten the engine shaft coupling at this time.
4. Place the urethane spider in the pump coupling. Align and install the pump and pump coupling.
5. Tighten the pump bolts to a "Grade 5" bolt torque for that size of bolt.
6. Slide the engine coupling against the other coupling half and tighten the setscrew.

Note: If the adapter plate was removed, tighten the four retaining bolts to "Grade 5" bolt torque for that size of bolt.

10.3 ENGINE

For any questions concerning the Honda® engine that are not answered in this manual, refer to the OEM manual that was provided with the seed tender.

To contact Honda®, refer to the OEM Literature section in this manual. Refer to “11.1 Honda® Engine” on page 55.

10.3.1 Approved Fuel

Use a regular unleaded automotive gasoline for all operating conditions. The fuel tank capacity is 8.0 gallons (30.3 liters).

10.3.2 Engine Oil

Use SAE 10W-30 multi-viscosity motor oil for normal operating conditions. Consult your engine manual for the recommended oil in cold temperatures. The oil capacity is 1.5 liters (1.7 US qt.) without a filter change, 1.7 liters (1.8 US qt.) with a filter change.

10.3.3 Change Engine Oil

1. Review the Operator's Manual for the engine.
2. Allow the engine to cool before changing oil. Draining works best when oil is warm.



Burn Hazard
Hot engine oil can burn skin.

3. Be sure the engine key switch is in the OFF position.
4. Place a pan under the drain plug.

5. Remove drain plug (1) and allow oil to drain completely.



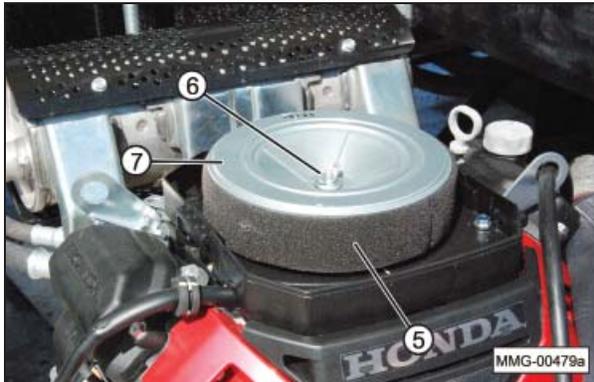
6. Reinstall the engine drain plug with a new sealing washer and tighten.
7. Remove oil filter (2) and drain the oil it contains into the drain pan.
8. Clean the filter mounting base, and coat the seal of the new oil filter with clean engine oil.
9. Screw on the new oil filter by hand until the seal contacts the filter mounting base, then use an oil filter socket tool to tighten the filter an additional 3/4 turn.
10. Remove oil filler cap (3) and fill the engine with 1.8 Qt. (1.7 l) of SAE 10W-30 oil for general usage. Check the oil level on dipstick (4). If the engine is operated in more extreme conditions, refer to the OEM manual for oil recommendations.



11. Run the engine for one minute and recheck the oil level. Add oil, as needed, to reach the upper limit mark on the dipstick.
12. Dispose of the used oil in an approved container. Follow industrial disposal regulations.

10.3.4 Air Cleaner

Check the air cleaner before each usage. Clean foam filter element (5) every six months or 100 hours of operation (clean it more frequently when used in dusty conditions). Remove wing nut (6) and replace paper filter element (7) every two years or 500 hours of operation.



10.4 INCLINE CONVEYOR

10.4.1 Unplugging

If the incline conveyor becomes plugged, follow this procedure:

1. Position the conveyor with easy access to the bottom end.

⚠ WARNING



Fall Hazard
Do not perform any work on the incline conveyor when it is in the transport position.

2. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.

⚠ WARNING	
ENTANGLEMENT HAZARD	
	Avoid serious injury or death: <ul style="list-style-type: none">• Do not operate with access door open.• Do not operate without guards.• Do not place hands or fingers near rotating or moving parts.• Stop motor, disconnect power, and wait for moving parts to stop before performing any work on unit.
	
	
17770	

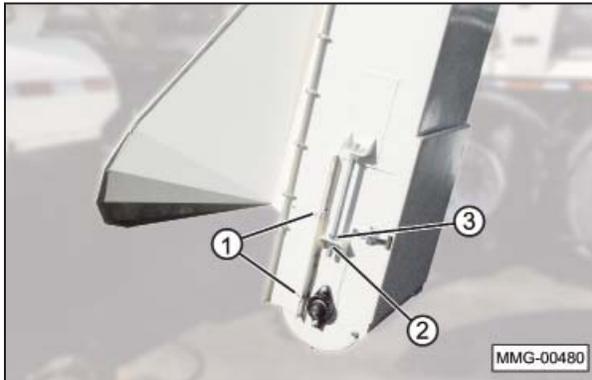
3. Open the lower access door at the bottom of the conveyor.



4. Remove obstruction.
5. Close and secure the lower access door.

10.4.2 Belt Tension Adjustment

1. Unfold the conveyor for access to the tension adjusting mechanism. Stop engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
2. Loosen locknuts (1) on each side of the conveyor lower end.



3. Loosen locknuts (2) on each side of the belt tension mechanism.
4. Tighten two adjusting nuts (3) equally to 23 lb-ft. Retighten the locking nuts.
5. Start the conveyor and make sure the belt is tracking in the center of the drive drum. If the belt is not tracking properly, use the Belt Tracking Adjustment procedure to correct the problem.

NOTICE

The drive drum at the bottom of the conveyor must be square (drive shaft must be equal distance from end of unit) for the belt to track properly.

10.4.3 Belt Tracking Adjustment



1. Unfold the conveyor. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
2. Loosen the locknuts on the adjusting bolt.
3. Tighten or loosen the bolt to correct the tracking problem.
4. Place both locking nuts on either side of the lock plate and tighten the locking nuts together.
5. Start the conveyor and make sure the belt is tracking in the center of the drive drum. Readjust if needed.

10.4.4 Belt Replacement

Use the old belt to thread the new belt into the delivery tube.

1. Unfold the conveyor for access to the cleanout door. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
2. Unlatch and open the access door.





3. Loosen the lower drive drum adjusting bolts to their loosest position.
4. Disconnect the two ends of the conveyor belt.
5. Attach the replacement belt to the end of the old conveyor belt.
6. Slowly pull the old belt out of the delivery tube and thread the new one into position.
7. Disconnect the old belt and connect the ends of the new belt together.
8. Readjust the belt tension.
9. Close and latch the access door.
10. Start the conveyor to make sure the belt is tracking properly.
11. Recheck the tension and alignment of the belt frequently during the first ten hours of operation and adjust as needed.

Note: Typically a belt will seat itself during the first ten hours of operation and then require less or no adjustment.

10.5 UNDERBIN CONVEYOR

10.5.1 Unplugging

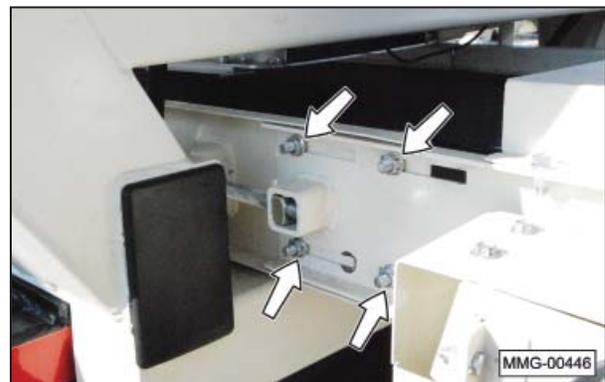
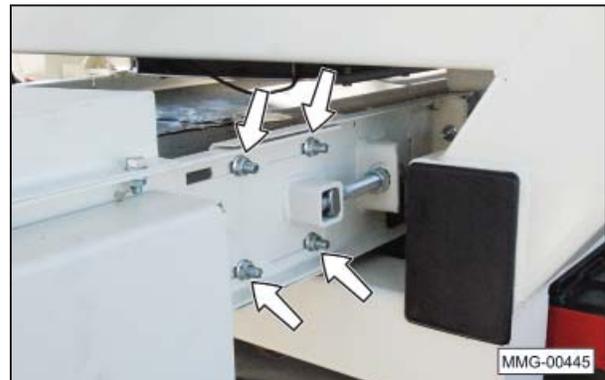
1. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
2. Remove the cover at the rear of the conveyor.



3. Remove obstruction.
4. Replace the cover at the rear of the conveyor.

10.5.2 Belt Tension Adjustment

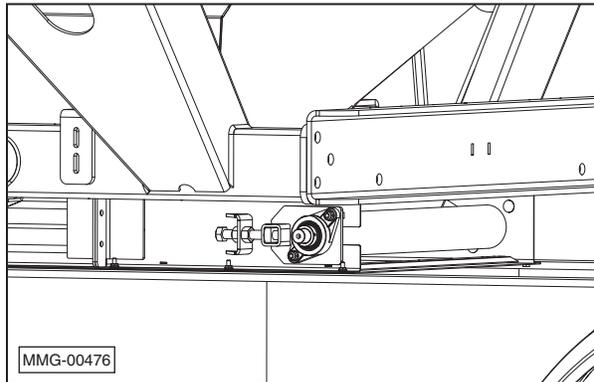
1. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
2. Loosen the (4) nuts on each side of the belt tension mechanism.



3. Loosen the two locknuts on each side of the belt tension mechanism.
4. Tighten the two adjusting bolts equally to 23 lb-ft. While holding the adjusting bolt in place, retighten both locking nuts.

5. Tighten the four nuts on each side of the belt tension mechanism.
6. Start the conveyor and make sure the belt is tracking in the center of the drive drum. If the belt is not tracking properly, use the Belt Tracking Adjustment procedure to correct the problem.

10.5.3 Belt Tracking Adjustment



1. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
2. Loosen the locknuts on the adjusting bolt.
3. Tighten or loosen the bolt to correct the tracking problem, depending on the direction of drift.
4. Place both locking nuts on either side of the lock plate and tighten the locking nuts together.
5. Start the conveyor and make sure the belt is tracking in the center of the drive drum. Readjust if needed.

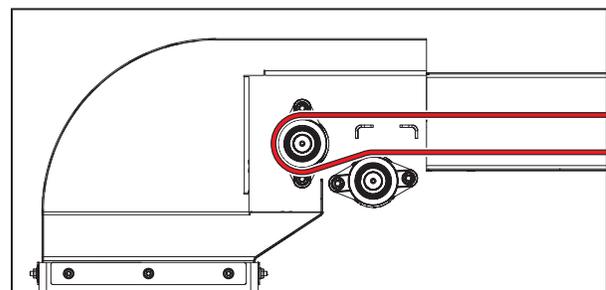
10.5.4 Belt Replacement

Use the old belt to thread the new belt into the conveyor.

1. Stop the engine and remove the ignition key. Place a lock-out tag on the control box to prevent accidental starting of the conveyor.
2. Remove the cover at the rear of the conveyor.



3. Loosen the (4) nuts on each side of the belt tension mechanism.
4. Loosen the (2) locknuts on each side of the belt tension mechanism to their loosest position.
5. Disconnect the two ends of the conveyor belt.
6. Attach the replacement belt to the end of the old conveyor belt.
7. Slowly pull the old belt out of the conveyor and thread the new one into position.
8. Disconnect the old belt and connect the ends of the new belt together.
9. If it is not possible to use the old belt to install the new one, pull the new belt through the bottom of the conveyor first, then over the top of the rollers. Connect the ends of the new belt together.



Belt routing diagram.

10. Readjust the belt tension.
11. Replace the cover at the rear of the conveyor.
12. Tighten the four nuts on each side of the belt tension mechanism.

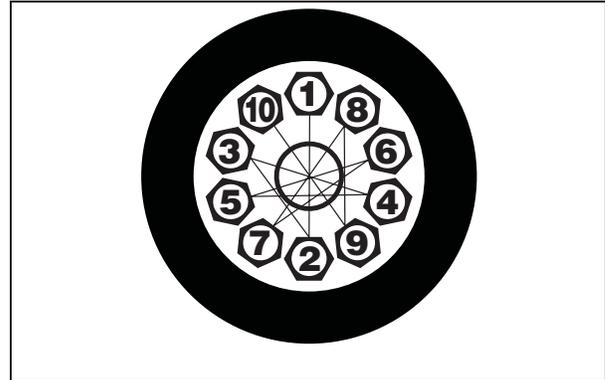
13. Start the conveyor to make sure the belt is tracking properly.
14. Recheck the tension and alignment of the belt frequently during the first ten hours of operation and adjust as needed.

Note: Typically a belt will seat itself during the first ten hours of operation and then require less or no adjustment.

IMPORTANT

The drive drum at the rear of the conveyor must be square (drive shaft must be equal distance from end of unit) for the belt to track properly.

3. Tighten the wheel nuts as shown.



Wheel Nut Tightening Sequence.

10.6 WHEEL BOLT TORQUE REQUIREMENTS



1. Initially check the wheel bolt torque at 50 miles and after each wheel removal.

Note: Torque wrenches are the best method to ensure the proper amount of torque is being applied to a wheel nut.

CAUTION



Wheel Bolt Torque

To prevent injury due to possible dangerous separation of wheels from the axle, the wheel nuts must be maintained at the proper torque levels. Properly maintained wheel nuts prevent loose wheels and broken studs.

2. Tighten the wheel nuts in two stages.
 - First stage: 50 foot pounds.
 - Second stage: 450 to 500 foot pounds.

10.8 SERVICE CHECKS

10.8.1 Daily Inspection (8 Hours)

WARNING



Fire Hazard

Gasoline is a highly flammable fuel. Improper use, handling, or storage of gasoline can be dangerous. Never touch or fill a hot engine. **DO NOT** fill the engine's fuel tank near an open flame while smoking or while engine is running. **DO NOT** fill tank in an enclosed area with poor ventilation. Wipe up spills immediately.

1. Check engine oil level and fill as needed.
2. Check engine fuel level and fill as needed.
3. Check hydraulic fluid level and fill as needed.



4. Initially check wheel bolt torque at 50 miles.
5. Check remote transmitter battery life and change them, if needed. The unit will shut off if the batteries are too weak.
6. Check underbin and incline delivery belts for proper tracking.
7. Visually inspect tires for wear or damage.
8. Check condition of the 12 volt battery.

10.8.2 Weekly Inspection (50 Hours)

1. Check the tension on the underbin and incline delivery belts. Adjust tension if needed. For the Incline conveyor, refer to "10.4.2 Belt Tension Adjustment" on page 49 of this manual. For the Underbin conveyor, refer to "10.5.2 Belt Tension Adjustment" on page 50 of this manual.
2. Check tire pressure. Inflate the tires to the recommended pressure stated on the tire.
3. Clean the remote transmitter.

10.8.3 Semi-Annual Inspection (100 Hours)

1. Change engine oil.
2. Clean or change engine air intake foam filter.

10.8.4 Annual Inspection (400 Hours)

1. Check wheel bolt torque. "10.6 Wheel Bolt Torque Requirements" on page 52 for tightening instructions.
2. Check frame-to-trailer hold-down bolts.
3. Check hydraulic pump to engine shaft coupling and spider. Refer to "10.2.4 Hydraulic Pump Coupling" on page 46 for instructions.
4. Replace engine air intake paper filter element.
5. Inspect all electrical wiring connections for looseness or corrosion. Replace any failed bulbs.
6. Thoroughly clean the seed tender.
7. Check the tires for wear, and replace if needed.
8. Check the condition of the UHMW conveyor slide plates and swing bushings.
9. Inspect Brake Lining Wear. Brake service, if required, should be performed by a qualified truck repair shop.

10.9 AXLE MAINTENANCE

For axle maintenance, consult a certified dealer and follow the recommendations of the OEM manufacturer.

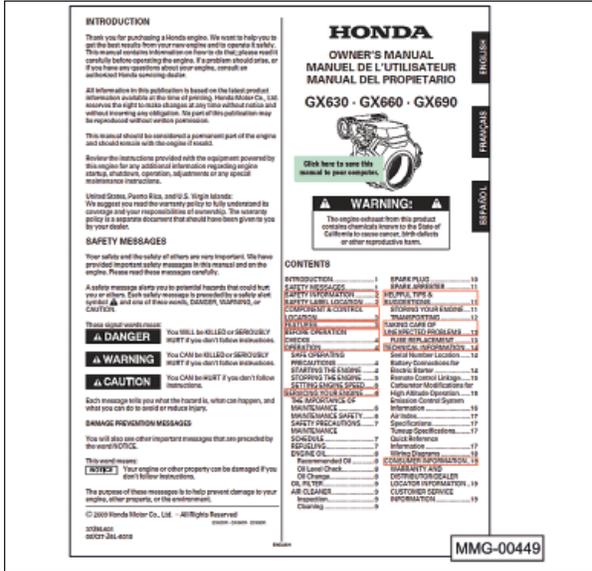
10.10 TIRES

Check the tires for normal and/or abnormal tire wear. Replace tires that are damaged or worn beyond normal tread life. Refer to the axle OEM manual for a Tire Wear Diagnostic Chart.

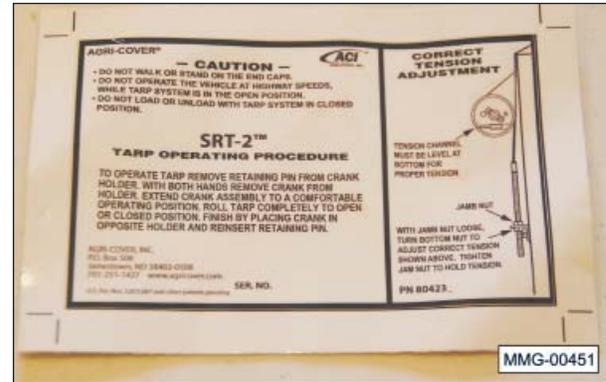
11. OEM LITERATURE

11.1 HONDA® ENGINE

For any questions concerning the Honda® GX690 Engine, refer to the OEM manual that was provided with the seed tender.



Three decals are also provided showing the correct operation and maintenance for the tarp. Attaching these decals is the responsibility of the purchaser.



Additional information can be obtained from:

United States Power Equipment Division
Customer Relations Office
4900 Marconi Drive
Alpharetta, GA 30005-8847
(770) 497-6400

Honda® Canada, Inc.
715 Milner Avenue
Toronto, ON M1B 2K8
(888) 946-6329

Additional information can be obtained from:
ACI Agri-Cover
PO Box 508
Jamestown, ND 58402

Phone: 1-800-233-4655
Fax: (701) 251-1512
customerrelations@agricover.com

11.2 RETRACTABLE COMPARTMENT TARP

For any questions concerning the Agri-Cover tarp, refer to the OEM manual that was provided with the seed tender.



11.3 TRAILER

For any questions concerning the trailer, refer to the OEM manual that was provided with the seed tender. If service or repair is required, use your dealer or local truck shop.

11.4 MAGNETEK REMOTE CONTROL

Additional information can be obtained from:

Magnetek, Inc.
N49 W13650 Campbell Dr.
Menominee Falls, WI 53051
1-800-288-8178

12. TROUBLESHOOTING

12.1 TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION
Engine will not start.	No fuel.	Fill the fuel tank.
	Low engine oil.	Fill the crankcase with oil.
	Cold engine.	Close choke.
	Ignition key switch off.	Turn ignition key switch on.
	Battery dead.	Recharge or replace battery.
	Engine problem.	Refer to engine manual.
Conveyor belt(s) will not start.	No power.	Check engine and hydraulic pump
	Drive motor coupling.	Repair or replace coupling.
	Conveyor belt tension.	Increase belt tension.
	Low hydraulic oil.	Check oil level.
Electrical or hydraulic functions are not working properly.	Transmitter power is OFF.	Turn Power ON.
	Receiver power is OFF.	Turn Power ON.
	Battery cable or battery.	Check battery cable and make sure battery is fully charged.
	Error in the control system.	Contact authorized Meridian dealer.
	Improper ground.	Check for proper grounding electrical circuit.
	Hydraulic valve or motor.	Ensure hydraulic pump is working properly and hydraulic tank is filled with oil.
	Intermittent function.	Check receiver antenna for damage and proper connection. Loose connector at the valve coil.

12.2 HYDRAULICS

Before operating in extremely cold conditions (below freezing), allow the hydraulic oil to warm up. Run the system for at least five minutes prior to using the unit.

If any hydraulic components or hoses are removed and/or replaced, slowly operate the affected function to bleed any air from the lines, cylinders, or other components. Trapped air in a cylinder can cause that function to operate erratically until the air is bled from the system. To bleed trapped air, use the controls to operate the particular function three or four times.

Before removing a hydraulic line(s), identify and label the connections. Connecting hydraulic lines improperly can result in unexpected movement of the cylinders, resulting in serious injury or possible death.

The tender uses a two pump hydraulic system. The front pump is 1.06 cu. in. displacement, and the rear pump is 0.49 cu. in. Valve body uses a center-hold position which allows pressure within the system to be released when the pump is not operating.

12.3 ELECTRONICS

Contact your dealer for any electronic issues. The electronic unit is equipped with a diagnostic port that is used for troubleshooting any electronic difficulties.

13. WARRANTY

13.1 WARRANTY STATEMENT

Limited Materials and Workmanship Warranty For Bulk Seed Tenders

Meridian Manufacturing Group (hereinafter referred to as the Manufacturer) hereby warrants the Bulk Seed Tender(s) sold by it to be free from any defect in material or workmanship under normal use and service for a period of one (1) year from the date of shipment. The Manufacturer's obligation under this warranty shall be limited to the repair or replacement only, FOB the original point of shipment, of any defective parts or portions of the seed tender or accessories manufactured by Meridian. Any warranty claim must be reported to the Manufacturer within one (1) year from the date of shipment.

THIS WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS, PROVISIONS AND CONDITIONS:

1. This warranty does not apply:
 - a) To any product sold by the Manufacturer where it is used in areas exposed to corrosive or aggressive conditions including salt water, acids, alkaloid, ash, cement dust, animal waste or other corrosive chemicals from either inside or outside the bin.
 - b) For failures or defects arising out of damage during shipment or during storage on site.
 - c) To materials replaced or repaired under this warranty except to the extent of the remainder of the applicable warranty.
 - d) To damage resulting from misuse, negligence, accident or improper site preparation by others.
 - e) If the product has been altered or modified by others.
 - f) If in the case of coating failures the failure is the result of damage, lack of proper maintenance or failure to remove road salt or other contaminants that may have come in contact with the bin surface.
 - g) To loss of time, inconvenience, loss of material, down time or any other consequential damage.
 - h) For a function that is different than original designed intent.
2. The obligation of the Manufacturer under this warranty shall not arise unless the Manufacturer 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 owner and within one (1) year from the shipment date. The Manufacturer in its sole 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. The coating warranty is based on the manufacturer's performance specification for Polyester Powder finishes and does not include repair of minor blemishes or rusting that is normally part of the general maintenance of the seed tender. This warranty does not cover excessive wear on interior coatings. See attachment for full Performance Specification details on Polyester Powder Finishes.
4. The obligation of the Manufacturer hereunder extends only to the original owner and to the Meridian dealer to whom the materials may have been initially sold. This warranty shall not be subject to any assignment or transfer without the written consent of the Manufacturer.
5. The customer shall acknowledge that it has made its own independent decision to approve the use of the supplied materials and also the specific fabrication and construction procedures utilized to complete the seed tender, and has satisfied itself as to the suitability of these products for this particular application.
6. The foregoing sets forth the only warranties applicable to said materials and said warranties are given expressly and in lieu of all other warranties, expressed or implied, statutory or otherwise, of merchantability or fitness for a particular purpose and all warranties which exceed or differ from said warranties herein are disclaimed by the Manufacturer.
7. The owners sole and exclusive remedy against the Manufacturer shall be limited to the applicable warranty set forth herein and the endorsements, if any, issued together with this document and no other remedy (including but not limited to the recovery of assembly or disassembly costs, shipping costs, direct, incidental, special, indirect or consequential damages for lost profits, lost sales, injury to person or property or any other loss, whether arising from breach of contract, breach of warranty, tort, including negligence, strict liability or otherwise) shall be available to the owner or Meridian Dealer or any other person or entitles whether by direct action or for contribution or indemnity or otherwise.
8. The financial obligation of the Manufacturer under this warranty shall be limited to the repair or replacement of the product as originally supplied and in no event shall exceed the original cost of the product supplied.
9. The Manufacturer shall not have any obligation under any warranty herein until all accounts for materials, installation and erection of the said product thereof and for labor and other work performed by the Manufacturer or its dealers have been paid in full by the owner.

Warranty Claim Procedure

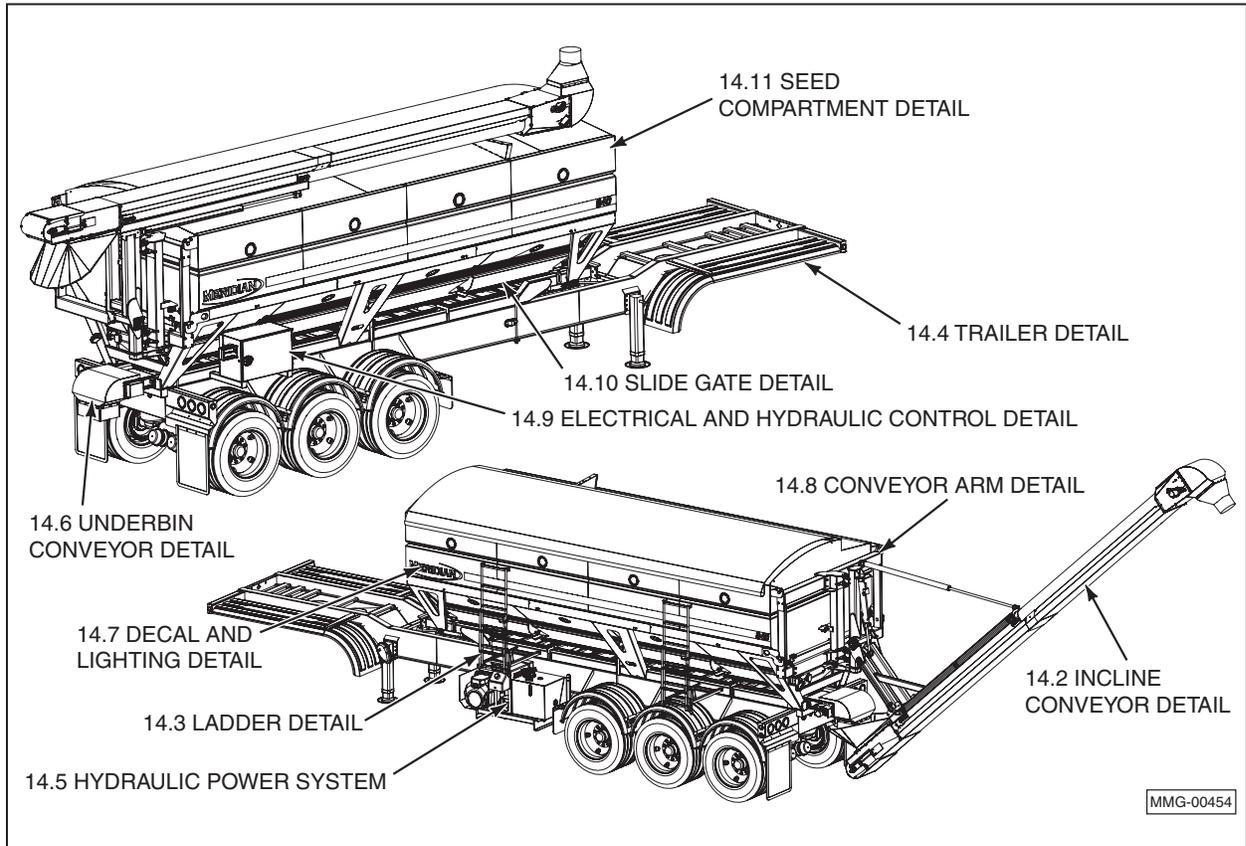
1. Registering product with Meridian Manufacturing.
2. Contact the dealer unit was purchased from upon discovery of any defects.
3. A completed warranty claim form submitted by dealer to Meridian warranty representative for review and course of action.
4. Warranty repair work will only be performed by Meridian, the dealer or an approved representative. No warranty work completed prior to approval. Failure to follow procedure may affect any or all reimbursement.
5. Claims will be adjudicated at the sole discretion of the manufacturer and in accordance with the terms and conditions of the applicable limited warranty.
6. A complete list of warranty procedures can be procured from the Warranty Department or found in your owner's manual.

Effective July 1, 2009

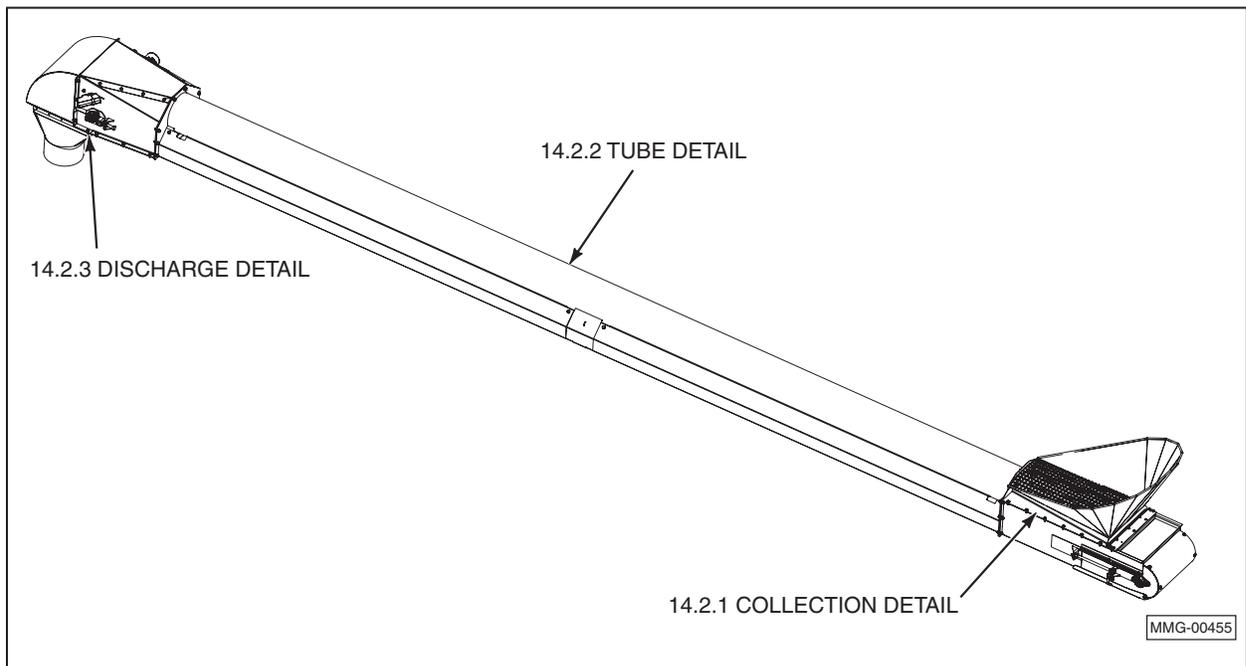
14. PARTS

The following pages contain a list of serviceable parts for the 840/1050/1260 Seed Express Tenders
Parts are available from your authorized Dealer
Parts Department.

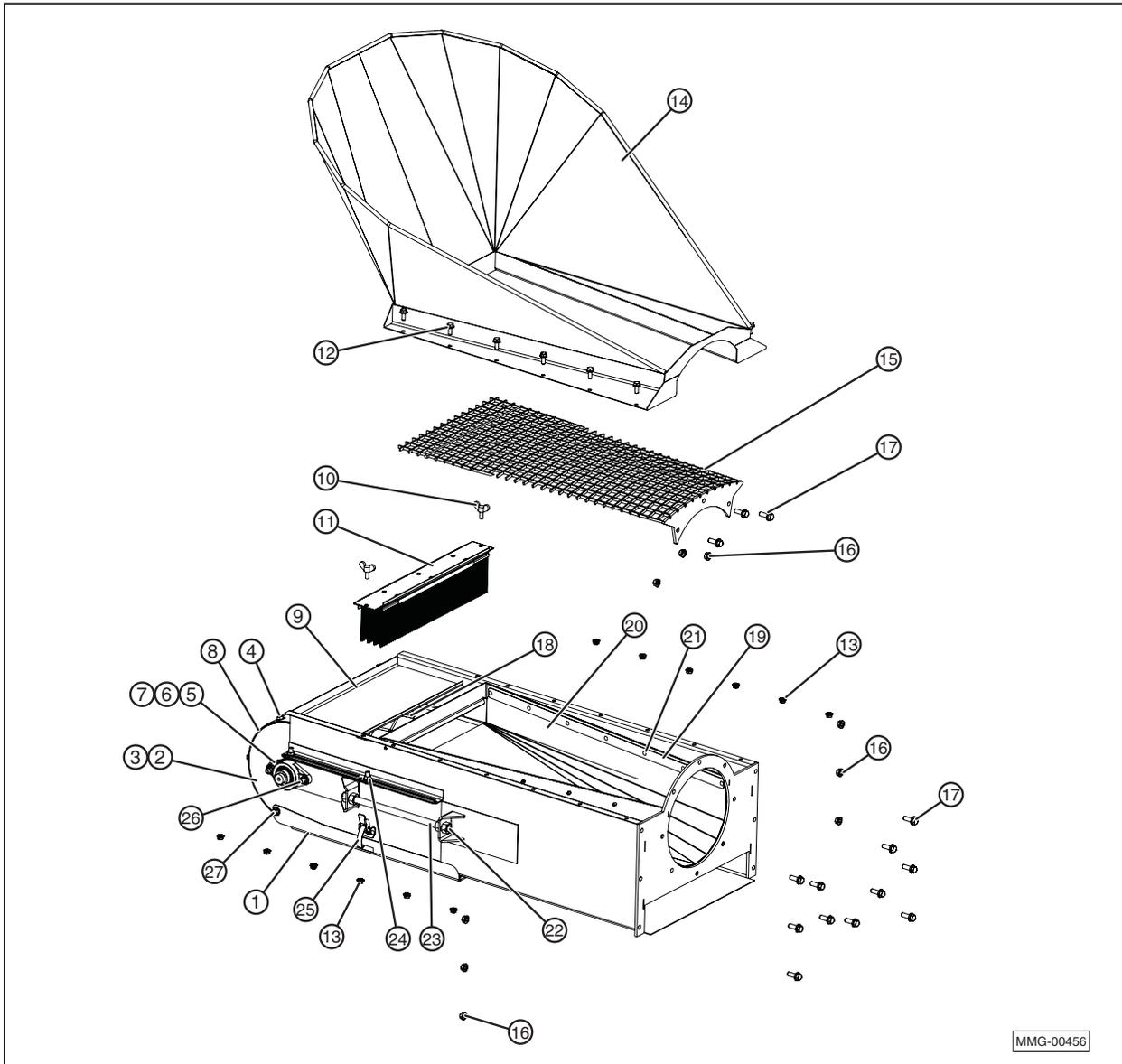
14.1 840 SEED EXPRESS 80409 (840), 80410 (1050), 80411 (1260)



14.2 INCLINE CONVEYOR 80630



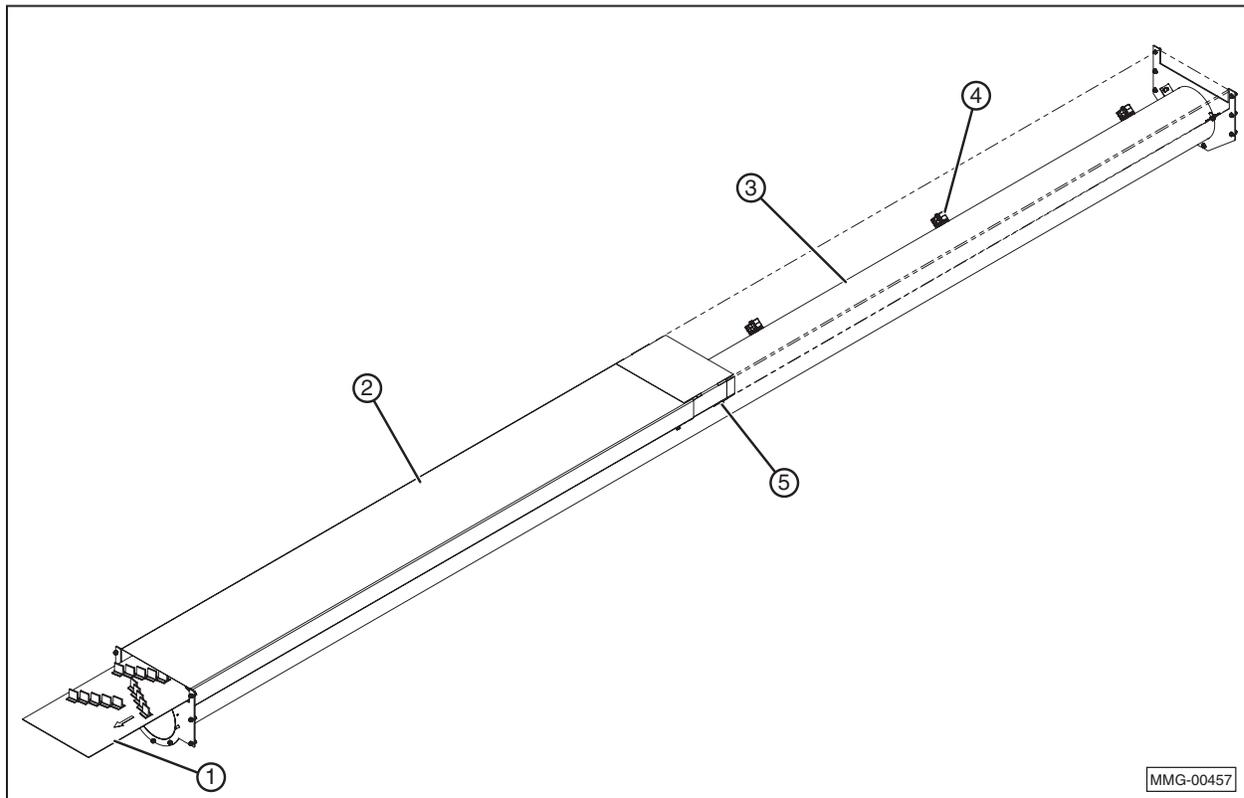
14.2.1 Collection Detail



Item	Qty.	Part No.	Description
1	1	23293	Door, Cleanout
2	1	32082	Slide, Adjustment, RH
3	1	32064	Slide, Adjustment, RH
4	8	19577	Bolt, Hex, Flanged, 3/8-16 x 3/4"
5	2	27040	Housing, Roller Bearing
6	2	21258	Bearing
7	2	21258-00C	Bearing, Collar
8	1	23456	Scoop
9	1	32081	Weldment, Pan
10	2	18729	Thumbscrew, 5/16-18 x 3/4"
11	1	40333	Brush Seal Assembly
12	12	19568	Bolt, Hex, Flanged, 5/16-18 x 3/4"
13	12	19318	Nut, Hex, Flanged, 5/16-18

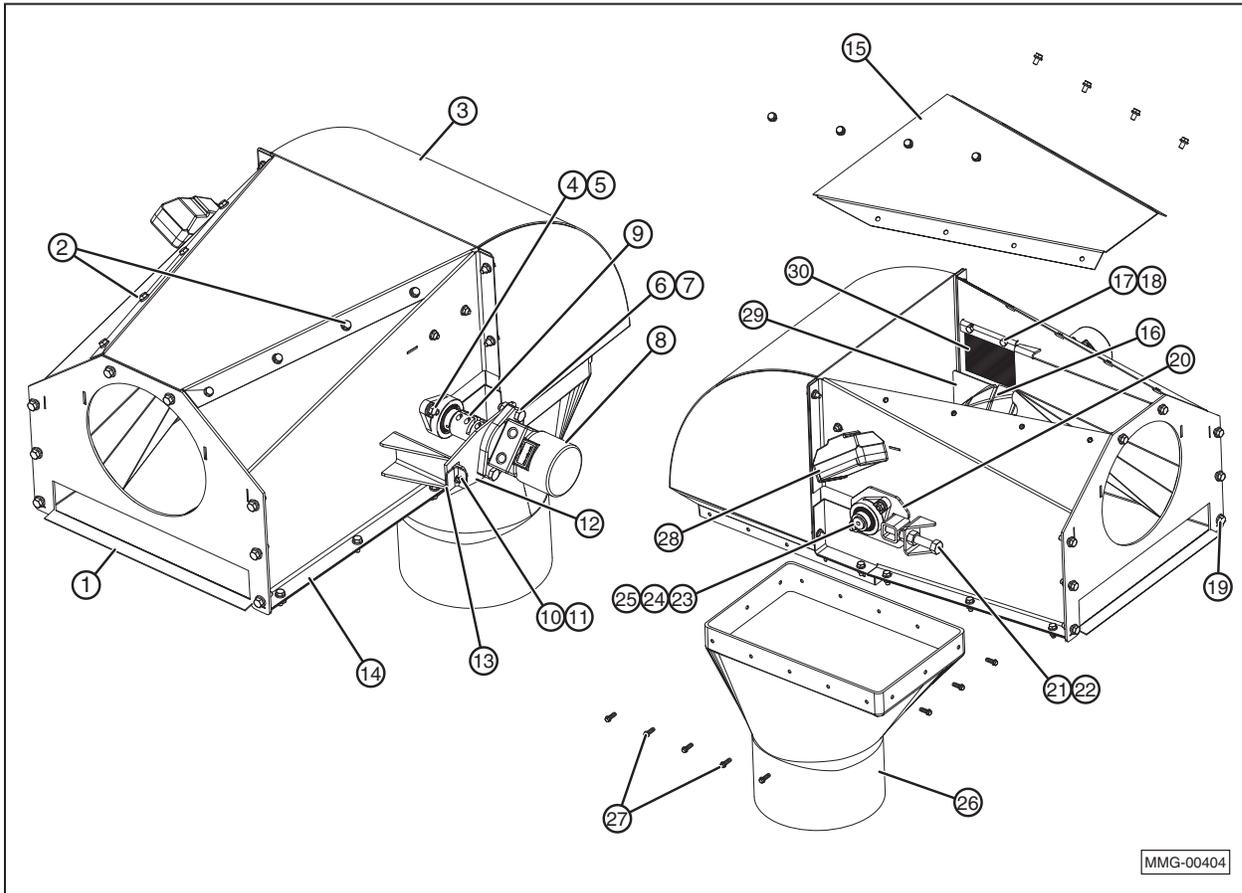
Item	Qty.	Part No.	Description
14	1	30135	Weldment, Hopper
15	1	32373	Guard, Hopper Weldment
16	22	19564	Nut, Hex, Flanged, 3/8-16
17	14	19569	Bolt, Hex, Flanged, 3/8-16 x 1"
18	1	12566	Roller, Idler Assembly
19	2	23457	Strip
20	2	23460	Baffle
21	12	19089	Rivet, Blind
22	8	19382	Nut, Hex, 5/8-11
23	2	20301	Rod, Threaded, 5/8-11
24	4	19334	Bolt, Carriage, 3/8-16 x 1
25	2	21257	Latch
26	4	19695	Bolt, Carriage, 3/8-16 x 1-1/4"
27	2	18731	Bushing, Pivot

14.2.2 Tube Detail



Item	Qty.	Part No.	Description
1	1	18732	Belt, Conveyor
2	2	23464	Guard, Belt
3	1	23393	Weldment, Conveyor Tube
4	3	18697	Clamp, Hydraulic Tube, 3/4"
5	1	19569	Bolt, Hex, Flanged, 3/8-16 x 1"

14.2.3 Discharge Detail



Item	Qty.	Part No.	Description
1	1	23481	Plate, Bottom
2	8	19772	Bolt, Hex, Flanged, 5/16-18 x 1/2"
3	1	32367	Weldment, Discharge Hood
4	4	19695	Bolt, Carriage, 3/8-16 x 1-1/4"
5	8	19564	Nut, Hex, Flanged, 3/8-16
6	2	19355	Cap Screw, 1/2-13 x 1-1/2"
7	2	19595	Nut, Hex, Flanged, 1/2-13
8	1	12567	Motor, Hydraulic, Eaton 101-1702-009
9	4	18728	Coupling
10	1	19560	Bolt, Hex, 1/4-20 x 3/4"
11	1	19128	Nut, Hex, Nylon, Locking 1/4-20
12	1	23637	Plate, Motor Mount
13	1	23381	Plate, Clamp
14	1	32068	Weldment, Discharge Transition
15	1	23469	Plate, Discharge Cover
16	1	12569	Roller, Drive Assembly

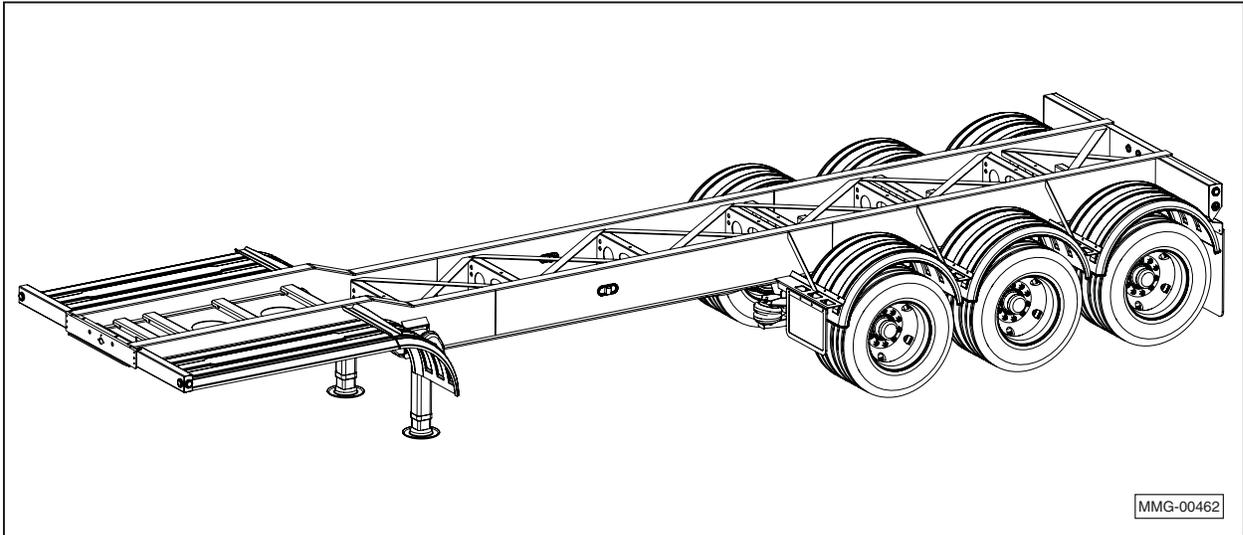
Item	Qty.	Part No.	Description
17	4	19310	Bolt, Hex, 5/16-18 x 1"
18	14	19318	Nut, Hex, Flanged, 5/16-18
19	8	19569	Bolt, Hex, Flanged, 3/8-16 x 1"
20	1	25278	Plate, Discharge Roller Slide
21	1	19380	Bolt, Hex, 5/8-11 x 4-1/2"
22	2	19382	Nut, Hex, 5/8-11
23	2	27040	Housing, Roller Bearing
24	1	21258	Bearing
25	4	21258-00C	Bearing, Collar
26	1	11548	Spout, Discharge
27	16	19089	Rivet
28	1	18188	Light, Work
29	2	25463	Plate, Transition Seal
30	2	25810	Brush, 5-1/4"

14.3 LADDER DETAIL



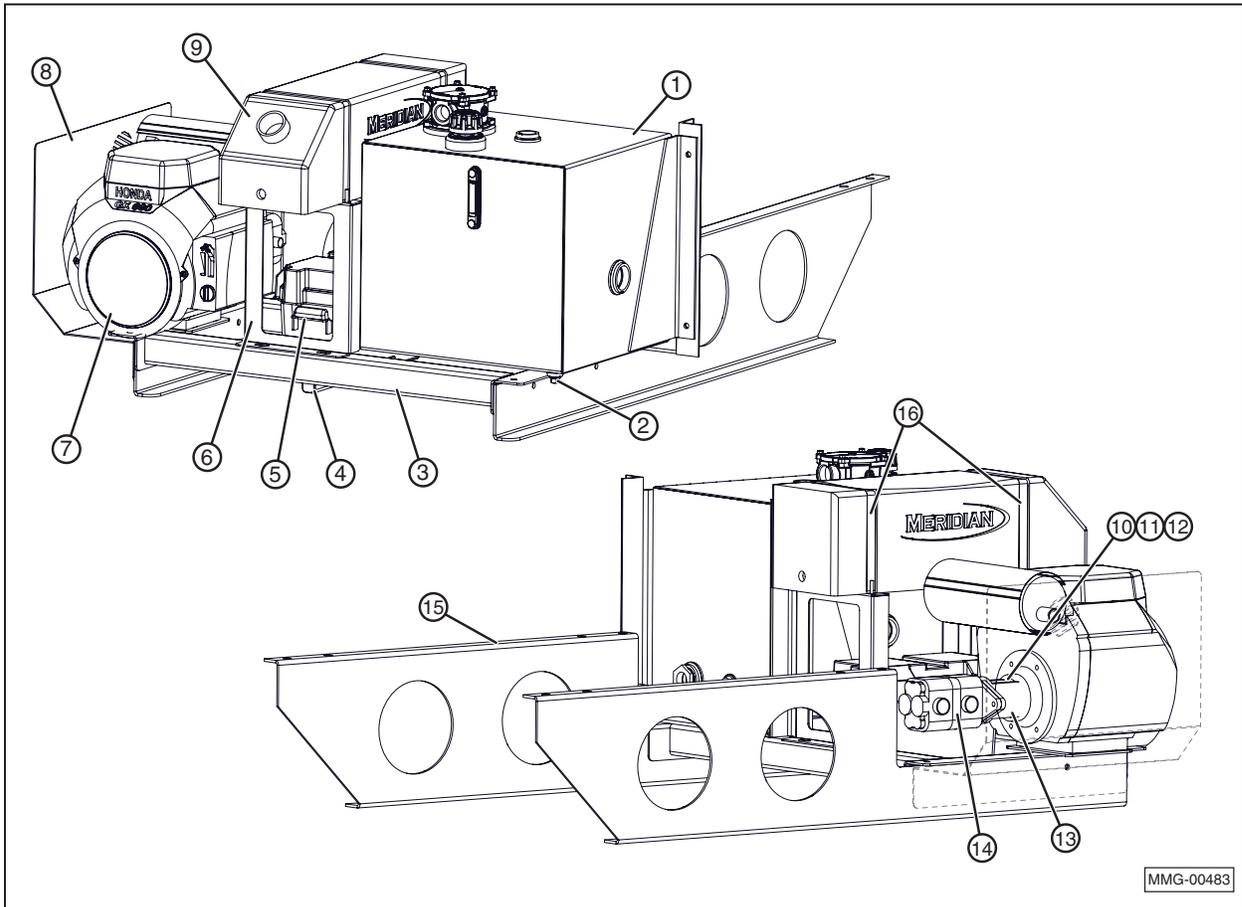
Item	Qty.	Part No.	Description
1	1	25674	Ladder, Swing Assembly
2	8	19063	Plug, 1" Tube
3	1	25673	Ladder, Top Assembly
4	6	19564	Nut, Hex, Flanged, 3/8-16
5	6	19577	Bolt, Hex, Flanged, 3/8-16 x 3/4"
6	2	19067	Pad, Rubber
7	1	19138	Cable, Self Gripping Velcro
8	2	19318	Nut, Hex, Flanged, 5/16-18
9	1	32361	Standoff As., Ladder
10	1	19064	Shock, 120 Lb. Gas Spring Assist
11	2	19318	Bolt, Hex, 3/8-16 x 1"
12	2	19347	Locknut, Nylon, 3/8-16

14.4 TRAILER DETAIL 80360



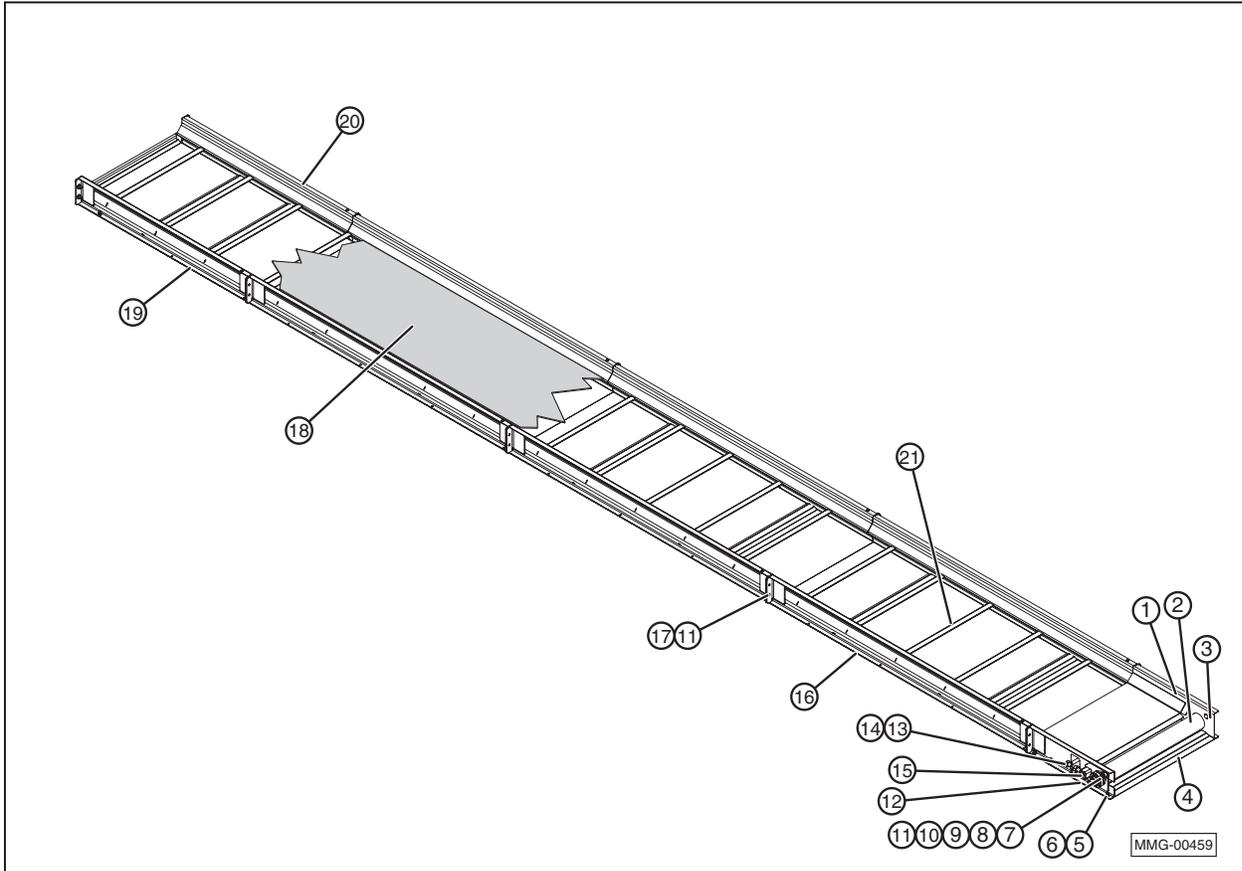
Note: For trailer service, contact the OEM Manufacturer.

14.5 HYDRAULIC POWER SYSTEM 36043



Item	Qty.	Part No.	Description
1	1	11544	Tank Assembly, Hydraulic, 40 Gallon
2	1	18006	Plug, Drain
3	1	32368	Weldment, Engine Mount
4	1	32033	Weldment, Battery Box Mount
5	2	11218	Box, Battery
6	2	24179	Weldment, Fuel tank mount
7	1	21259	Engine, Honda GX690
8	1	24235	Cover, Motor
9	1	42165	Tank, Fuel
10	1	19247	Coupling w/ Setscrew, Engine Side
11	1	19290	Coupler, Spider, Black
12	1	19248	Coupling w/ Setscrew, Pump Side
13	1	17918	Housing, Bell
14	1	17919	Pump, Hydraulic
15	2	24225	Bracket, Undercarriage
16	2	B4100641	Strap, Fuel Tank Retainer

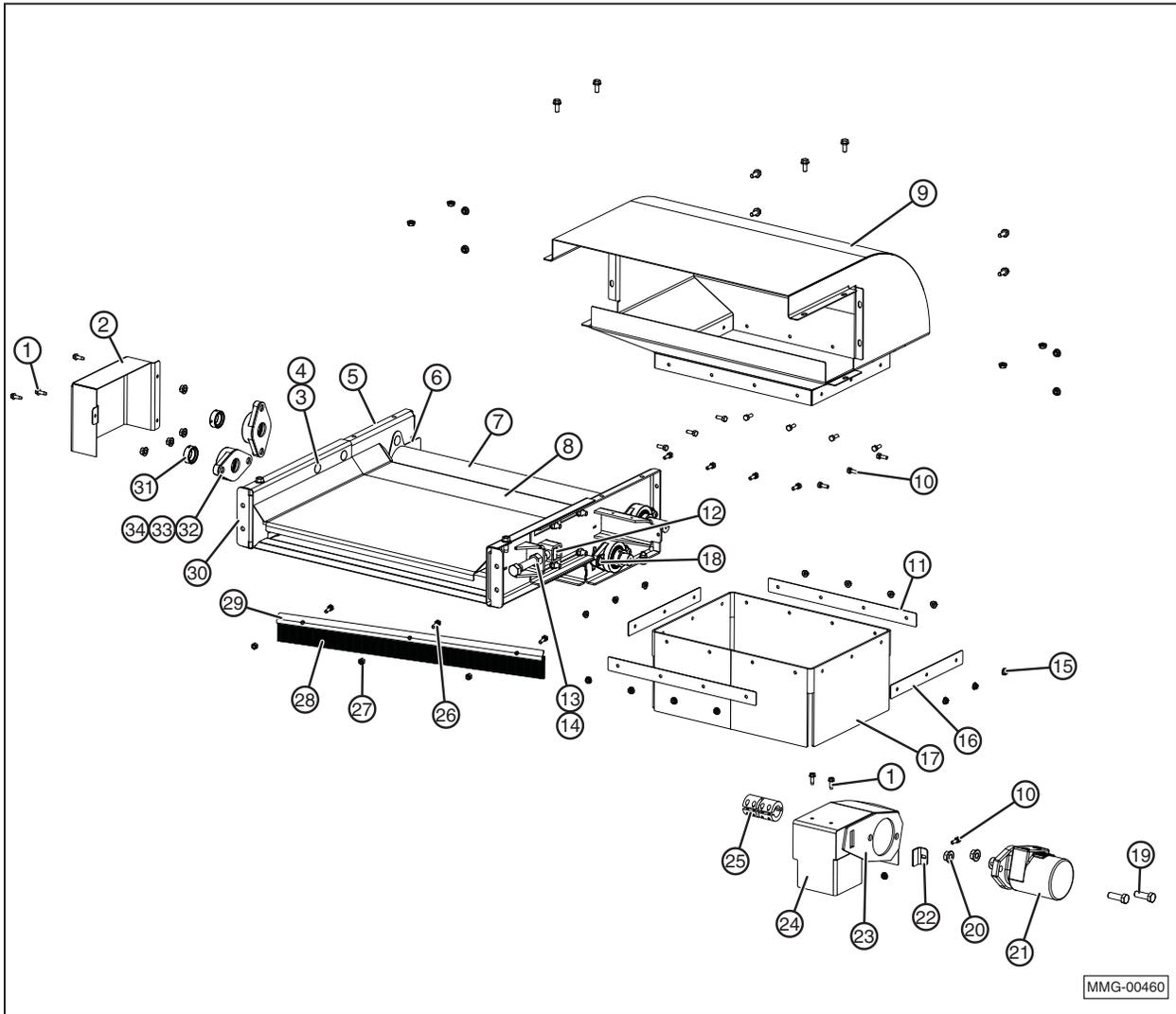
14.6 UNDERBIN CONVEYOR 80138 (840), 80139 (1050), 80140 (1260)



Item	Qty.	Part No.	Description
1	1	25839	Plate, Spacer (Not Shown)
2	1	19524	Roller, Idler End
3	1	30105	Weldment, Idler End
4	1	25146	Plate, End, Bottom
5	6	19560	Bolt, Hex, 1/4-20 x 3/4"
6	6	19126	Nut, Hex, Flanged, 1/4-20
7	2	27040	Housing, Roller Bearing
8	2	21258	Bearing
9	2	21258-00C	Bearing, Collar
10	4	19695	Bolt, Carriage, 3/8-16 x 1-1/4"
11	24	19564	Nut, Hex, Flanged, 3/8-16
12	1	30106	Plate, Adjustment
13	1	19380	Bolt, Hex, 5/8-11 x 4-1/2"
14	2	19382	Nut, Hex, 5/8-11

Item	Qty.	Part No.	Description
15	1	19663	Nut, Square, 5/8-11
16	3	24424	Plate, Bottom (840)
	4		Plate, Bottom (1050)
	5		Plate, Bottom (1260)
17	20	19569	Bolt, Hex, Flanged, 3/8-16 x 1"
18	1	21192	Belt, Conveyor (840)
		21193	Belt, Conveyor (1050)
		21194	Belt, Conveyor (1260)
19	1	24425	Plate, Bottom
20	1	32348	Weldment, Channel
21	3	32347	Weldment, Channel (840)
	4		Weldment, Channel (1050)
	5		Weldment, Channel (1260)

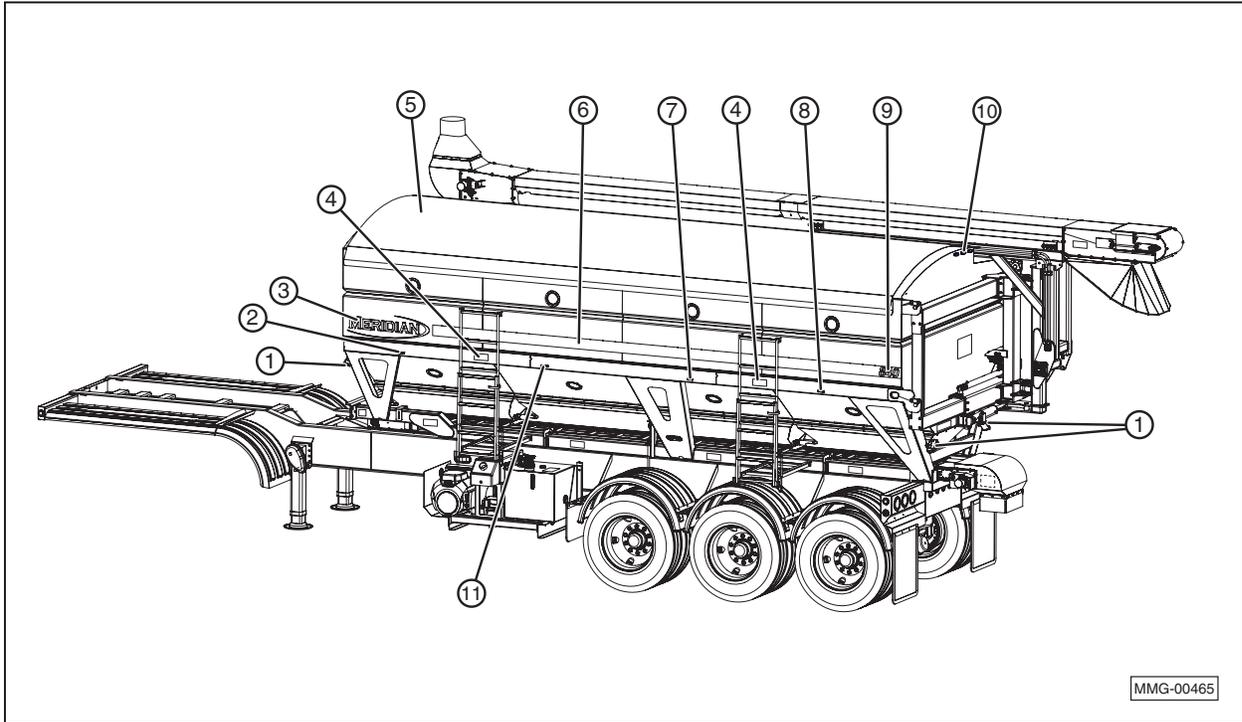
14.6.1 Discharge Detail



Item	Qty.	Part No.	Description
1	5	19597	Screw, Self-Drilling 1/4-14 x 3/4"
2	1	25145	Cover
3	8	19334	Bolt, Carriage, 3/8-16 x 1"
4	16	19564	Nut, Hex, Flanged, 3/8-16
5	1	30109	Weldment, Drive End Adjust
6	1	25142	Plate
7	1	19523	Roller, Drive Assembly
8	1	19524	Roller, Tensioning
9	1	19695	Weldment, Discharge Hood
10	14	19560	Bolt, Hex, 1/4-20 X 3/4"
11	2	25126	Plate, Boot Retainer
12	2	19663	Nut, Square, 5/8-11
13	4	19382	Nut, Hex, 5/8-11
14	2	18663	Bolt, Hex, 5/8-11 x 6" Full Thread
15	15	19126	Nut, Hex, Flanged, 1/4-20
16	2	25128	Plate, Boot Retainer, Side
17	1	18667	Spout, Discharge

Item	Qty.	Part No.	Description
18	8	19695	Bolt, Carriage, 3/8-16 x 1-1/4"
19	2	19355	Cap Screw, 1/2-13 x 1-1/2"
20	2	19595	Nut, Hex, Flanged, 1/2-13
21	1	18672	Motor, Hydraulic (5.9 Cu. In.)
22	1	23381	Angle
23	1	25143	Plate, Motor Mounting
24	1	25144	Guard, Motor
25	1	18728	Coupler
26	3	19301	Bolt, Hex, 1/4-20 X 1"
27	3	19128	Nut, Hex, Nylon, Locking 1/4-20
28	1	25117	Brush, 2"
29	1	25123	Retainer, Brush
30	1	30107	Weldment, Discharge Pan
31	4	27040	Housing, Roller Bearing
32	4	21258	Bearing
33	4	21258-00C	Bearing, Collar
34	2	25839	Spacer, Bearing

14.7 DECALS AND LIGHTING

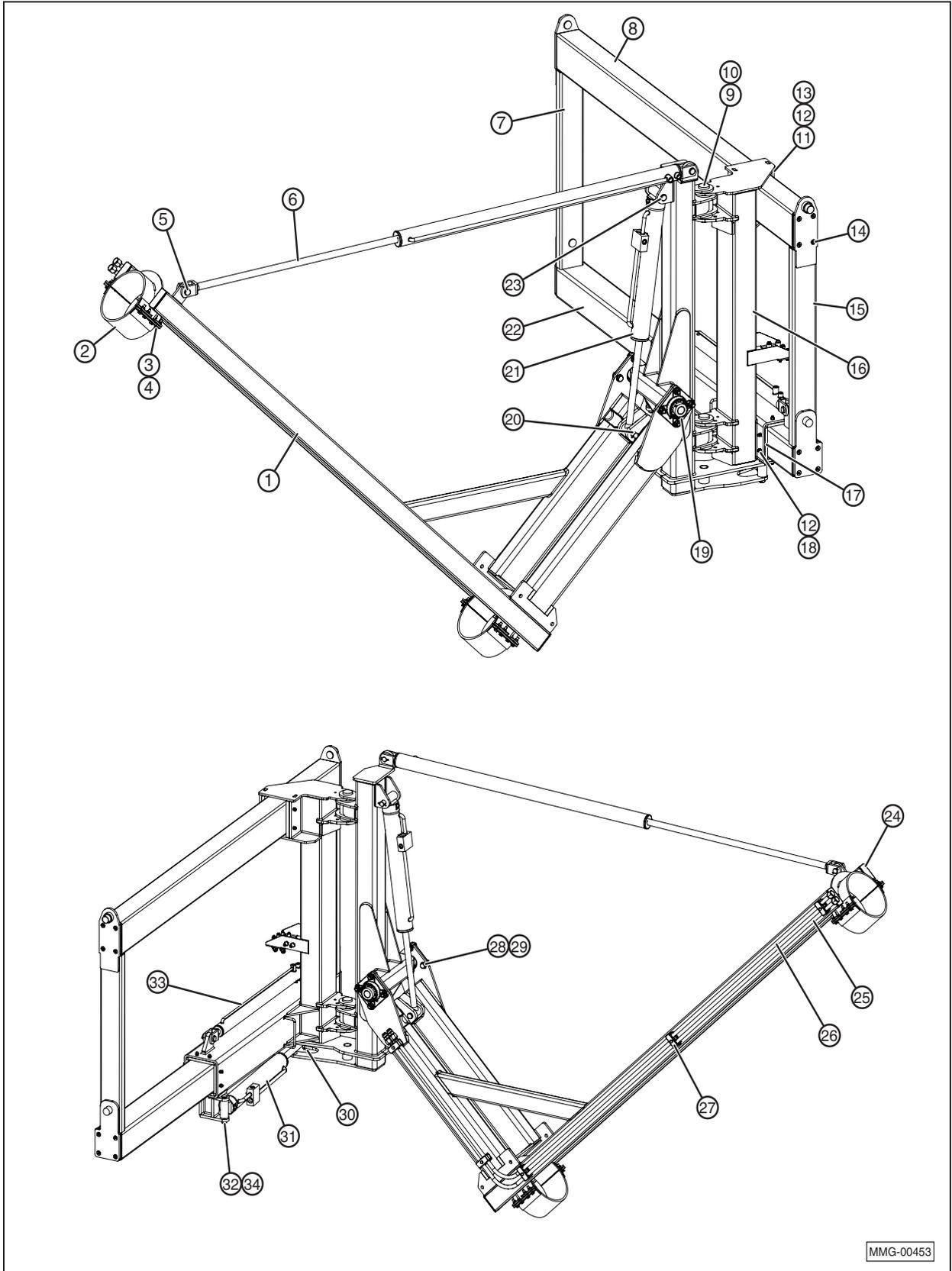


Item	Qty.	Part No.	Description
1	3	18188	Light, Work
2	2	18685	Decal, Gate 4
3	2	17584	Decal, Meridian
4	2	19939	Decal, Falling Hazard
5	1	20826	Kit, Agri-Cover Tarp
6	2	17583	Decal, Gradient
7	2	19053	Decal, Gate 2
8	2	19052	Decal, Gate 1
9	2	17585	Decal, 840
		17586	Decal, 1050
		17587	Decal, 1260
10	3	18151	Light, Red Clearance
11	2	19054	Decal, Gate 3
12	2	17915	Decal, Gate 5*
13	2	17590	Decal, Gate 6**

*Model 1050 and 1260 (Not Shown)

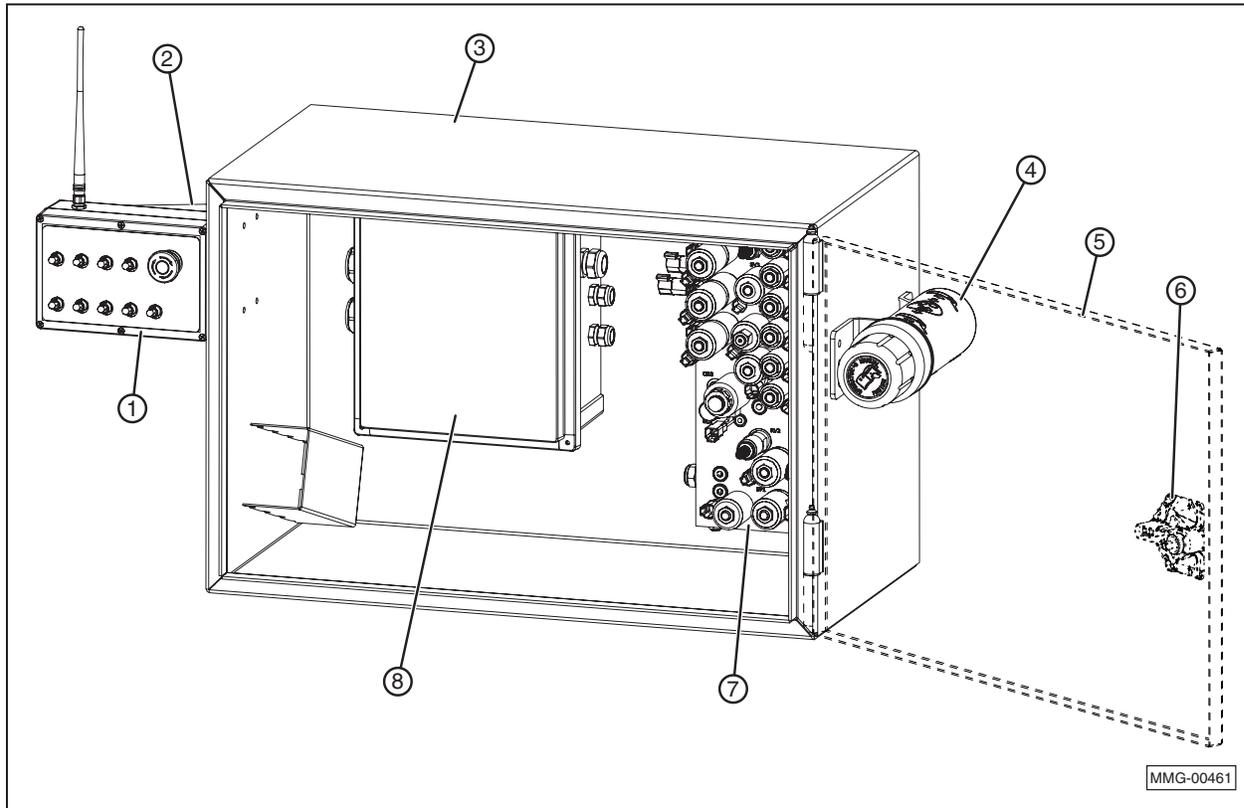
**Model 1260 only (Not Shown)

14.8 CONVEYOR ARM DETAIL 36039



Item	Qty.	Part No.	Description
1	1	32356	Weldment, Conveyor Arm Lift
2	2	25587	Weldment, 10" Clamp, Top Half
3	16	19578	Bolt, Hex, Flanged, 3/8-16 x 1-1/2"
4	16	19564	Nut, Hex, Flanged, 3/8-16
5	4	12581	Pin, Clevis
6	1	12574	Cylinder
7	1	25545	Weldment, Left Vertical Stiffener
8	1	25539	Weldment, Top Slide Tube
9	2	35147	Weldment, Bearing Mount Arm Pin
10	2	17914	Bushing, Nylatron, 2"
11	4	19669	Screw, Countersunk, 3/8-16 x 1-1/2"
12	20	19347	Nut, Locking 3/8-16
13	2	20466	Plate, Wear, UHMW
14	16	19667	Screw, Countersunk, 1/2-13 x 1-1/4"
15	1	25546	Weldment, Right Vertical Stiffener
16	1	32359	Weldment, Slide Arm, Right
17	8	29338	Plate, Wear, UHMW
18	16	19668	Screw, Countersunk, 3/8-16 x 1-1/2"
19	2	18665	Bearing, Flanged, 1-1/2"
20	1	12582	Pin, Clevis 1 x 4-45/64" Eff. Length
21	1	12575	Cylinder
22	1	25541	Weldment, Slide Tube Assembly
23	1	19774	Pin, Clevis
24	4	18248	Cap
25	1	36036	Tube As., Hydraulic
26	1	36037	Tube As., Hydraulic
27	5	18697	Guide, Hydraulic Line
28	8	19567	Bolt, Hex, Flanged, 5/8-11 x 2"
29	8	19566	Nut, Hex, Flanged, 5/8-11
30	1	17638	Pin, Clevis, 1 x 4
31	1	12575_1	Cylinder
32	1	B4100639	Pin, Clevis
33	1	12576	Cylinder
34	8	18671	Pin, Cotter, 1-1/4" Extended Prong

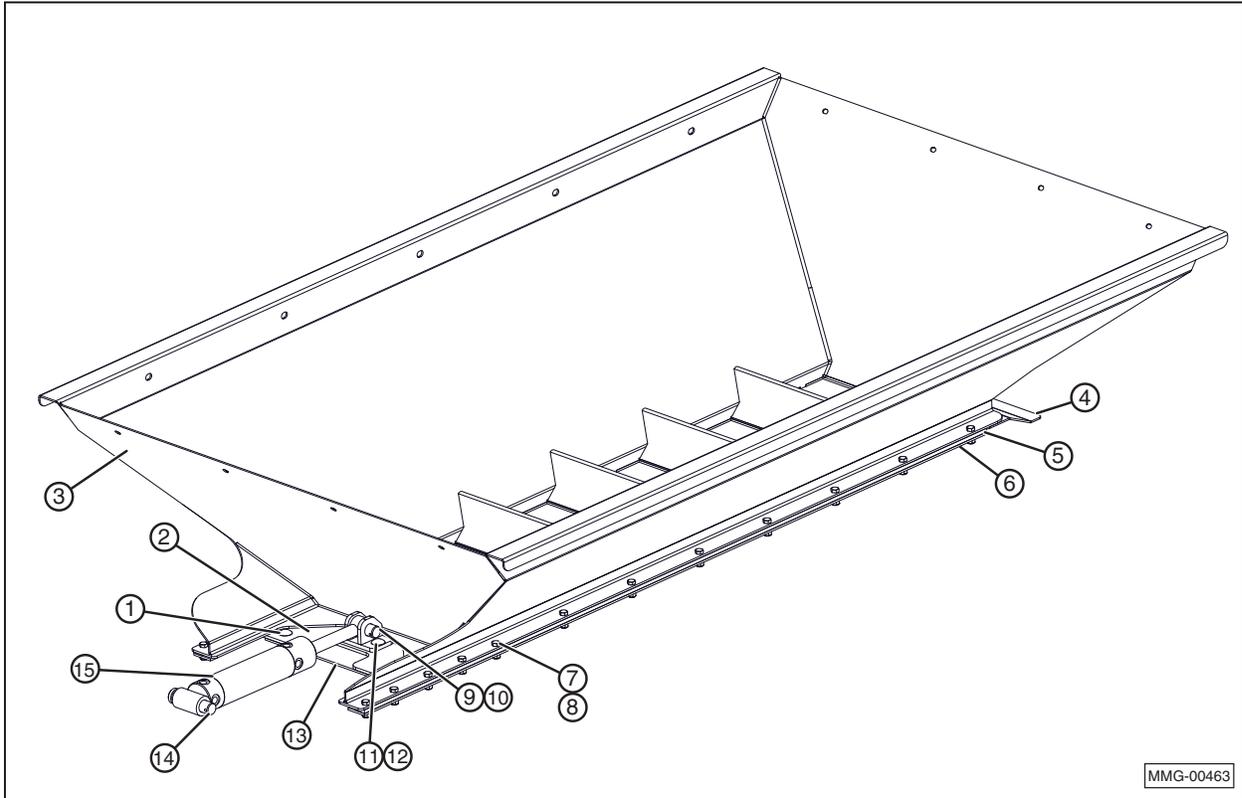
14.9 ELECTRICAL AND HYDRAULIC CONTROL CABINET 36044



Item	Qty.	Part No.	Description
1	1	11241	Box, Switch
2	1	24230	Bracket, Manual Switch Box
3	1	32371	Weldment, Hydraulic Box
4	1	18128	Canister, Document Storage
5	1	24231	Door, Hydraulic Box
6	1	11223	Latch, T-Handle
7	1	11240	Manifold, Hydraulic *
8	1	11242	Box, Controller*

* If service is required, contact an authorized Meridian dealer.

14.10 SLIDE GATE DETAIL



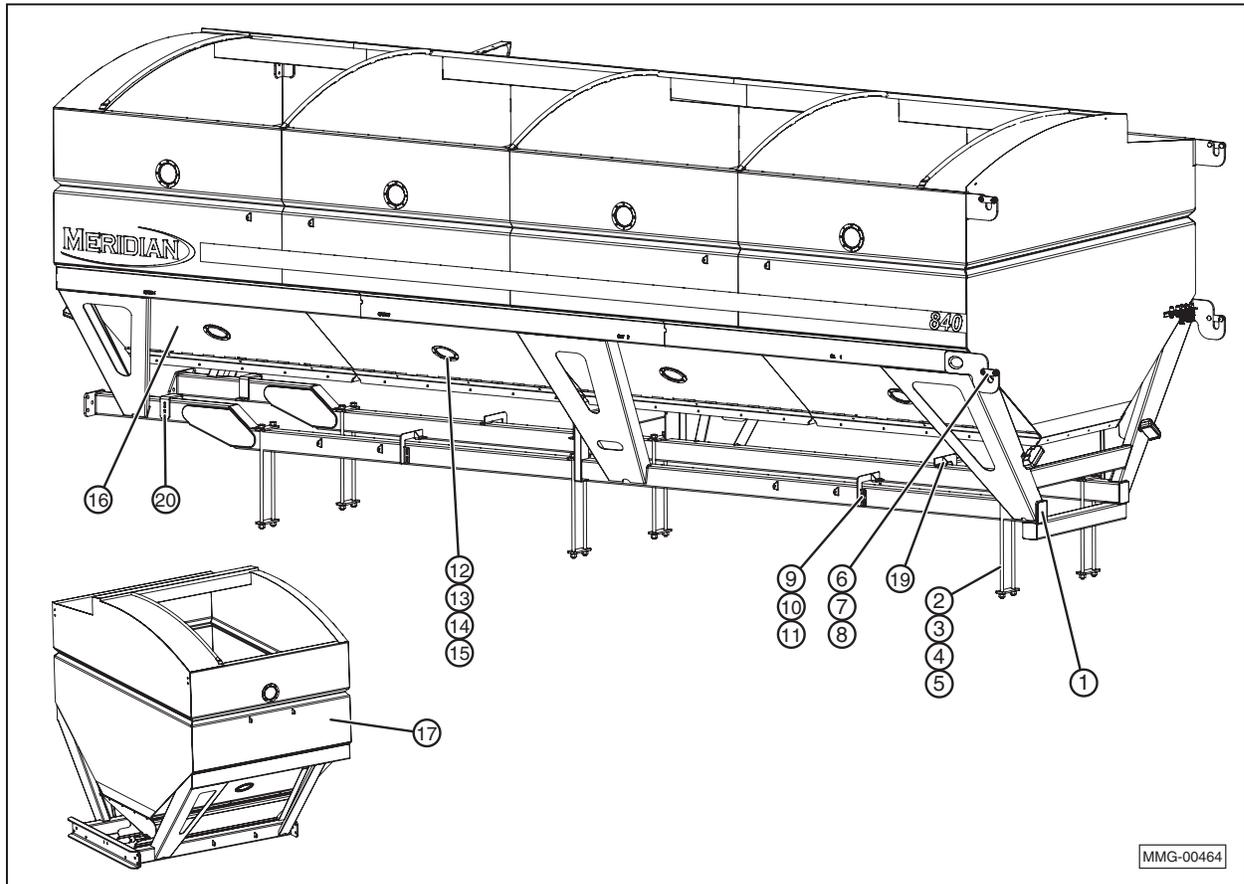
MMG-00463

Item	Qty.	Part No.	Description
1	2	17974	Bolt, Carriage, 3/8-16 x 3/4"
2	1	24429	Plate, Slide Gate
3	1	32351	Weldment, Hopper/Gate
4	1	24437	Deflector
5	2	25969	Spacer, Front Gate Slide
6	2	25968	Flange, Gate Front
7	24	19099	Bolt, Hex, 1/4-20 x 7/8"
8	24	19126	Nut, Hex, Flanged, 1/4-20
9	1	17913	Pin, Clevis 0.75" Dia. x 1.91"
10	1	35142	Mount, Slide Gate Cylinder
11	2	19334	Bolt, Carriage, 3/8-16 x 1"
12	4	19564	Nut, Hex, Flanged, 3/8-16
13	1	24428	Plate, Slide Gate Bolt
14	1	19776	Pin, Clevis 0.75" Dia. x 3.00"
15	1	17912	Cylinder

840 Seed Tender - 4 required.
 1260 Seed Tender - 6 required.
 1050 Seed Tender - 5 required.

Part Number 36033 is for entire assembly less items 9, 14, 15.

14.11 SEED COMPARTMENT DETAIL



MMG-00464

Item	Qty.	Part No.	Description
1	2	19619	Plug, 4" x 5"
2	12	14086	Rod, Threaded, 3/4-10 x 25"
3	12	24187	Plate, Tie Down (840)
	16		Plate, Tie Down (1050)
	20		Plate, Tie Down (1260)
4	24	19116	Nut, Hex, Heavy, 3/4-10 (840)
	32		Nut, Hex, Heavy, 3/4-10 (1050)
	40		Nut, Hex, Heavy, 3/4-10 (1260)
5	24	19373	Washer, Lock, 3/4" (840)
	32		Washer, Lock, 3/4" (1050)
	40		Washer, Lock, 3/4" (1260)
6	4	20471	Tab, Locking
7	8	19595	Nut, Hex, Flanged, 1/2-13
8	8	19679	Bolt, Carriage, 1/2-13 x 1-1/4"
9	3	24478	Bracket, Conveyor Mounting (Left)
10	6	19569	Bolt, Hex, Flanged, 3/8-16 x 1"
	8		Bolt, Hex, Flanged, 3/8-16 x 1" (1260)
11	12	19579	Screw, Tapping, Hex Washer Hd. 3/8-16 x 1
	16		Screw, Tapping, Hex Washer Hd. 3/8-16 x 1 (1260)

12	16	19077	Ring, View Glass (840)
	20		Ring, View Glass (1050)
	24		Ring, View Glass (1260)
13	16	19285	Glass, View (840)
	20		Glass, View (1050)
	24		Glass, View (1260)
14	16	19055	Gasket, View Glass (840)
	20		Gasket, View Glass (1050)
	24		Gasket, View Glass (1260)
15	128	19089	Rivet, Blind (840)
	160		Rivet, Blind (1050)
	192		Rivet, Blind (1260)
16	1	36041	Body, Seed Tender
17	1	32353	Compartment, Seed (1050)
	2		Compartment, Seed (1260)
18	4	14085	Rod, Hold Down (Not Shown) (1050)
	8		Rod, Hold Down (Not Shown) (1260)
19	1	24485	Bracket, Conveyor Mtg. (Right) (Not Shown)
20	2	24484	Bracket, Conveyor Mounting
	4		Bracket, Conveyor Mounting (1260)

Index

A

Air Cleaner	48
Axle Maintenance	54

B

Battery Safety	17
Belt Replacement	49
Belt Tension Adjustment	49
Belt Tracking Adjustment	49
Bolt Grade Markings Chart	23
Bolt Specifications	23
Bolt Torque Values	23
Bottom Dump Feature	40

C

Component Nomenclature and Location	24
Congratulations	11
Connecting the Trailer	33
Control Functions	27
Control System Compliance Information	27
Control System Functions	27
Control Functions	27
Control System Compliance Information	27

E

Engine	47
Air Cleaner	48
Approved Fuel	47
Change Engine Oil	47
Engine Oil	47
Engine and Controls	26
Engine Oil	47
Equipment Safety Guidelines	14

F

Forms	
Product Warranty Registration Form	3
Service Record Chart	53
Sign-Off Form	18

G

General Safety	13
Grease Fitting Locations	43
Greasing	42

H

How to Install Safety Signs	15
Hydraulic Oil Change	45
Hydraulic Oil Filter Change	45
Hydraulic Pressure Relief Valves	46
Hydraulic Pump Coupling	46
Hydraulic System	45
Hydraulic Oil Change	45
Hydraulic Oil Filter Change	45
Hydraulic Pressure Relief Valves	46
Hydraulic Pump Coupling	46

I

Incline Conveyor	48
Belt Replacement	49
Belt Tension Adjustment	49
Belt Tracking Adjustment	49
Unplugging	48
Introduction	11

L

Loading (Filling the Seed Tender)	35
Loading / Unloading	35
Bottom Dump Feature	40
Loading (Filling the Seed Tender)	35
Unloading (Filling the Storage Bin)	36
Lock-Out or Tag-Out Safety	16

M

Machine Break-In Period	
Inspections for 1/2, 5, and 10 Hours	32
Machine Components and Controls	24
Component Nomenclature and Location	24
Engine and Controls	26
Maintenance	42
Grease Fitting Locations	43
Greasing	42
Service Checks	54
Maintenance Safety	16

O	
OEM Literature	55
Honda® Engine	55
Retractable Compartment Tarp	55
Trailer	55
Opening and Closing Roll-Up Tarp	34
Operating Safety	15
Operation	33
Connecting the Trailer	33
Opening and Closing Roll-Up Tarp	34
Operator Orientation	11
Overall Seed Tender Specifications	22
Owner/Operator	11

P	
Parts	58
840 Seed Express 80409 (840), 80410 (1050), 80411 (1260)	58
Collection Detail	59
Conveyor Arm Detail 36039	68
Decals and Lighting	67
Discharge Detail	61, 66
Electrical And Hydraulic Control Cabinet 3604470 Hydraulic Power System (36042)	64
Incline Conveyor 80630	58
Ladder Detail	62
Seed Compartment Detail	72
Slide Gate Detail	71
Trailer Detail 80360	63
Tube Detail	60
Underbin Conveyor 80138 (840), 80139 (1050), 80140 (1260)	65
Pre-Operating Instructions	32
Before Starting	32
Pre-Operation Checklist	32
Preparation Safety	15
Product Warranty Registration Form	3

R	
Refueling Safety	17
Remote Control Unit	44
Battery Replacement	44
Battery Replacement - Roll-Up Tarp Remote Control Unit	44
Battery Replacement Tips	44

S	
Safety	12
Battery Safety	17
Equipment Safety Guidelines	14
General Safety	13
Lock-Out or Tag-Out Safety	16
Maintenance Safety	16
Operating Safety	15
Preparation Safety	15
Refueling Safety	17
Safety Signs	15
Safety Training	14
Storage Safety	17
Transport Safety	17
Safety Sign Locations	19
Safety Signs	15
How to Install Safety Signs	15
Safety Training	14
Serial Number Location	7
Service Checks	54
Annual Inspection (400 Hours)	54
Daily Inspection (8 Hours)	54
Semi-Annual Inspection (100 Hours)	54
Weekly Inspection (50 Hours)	54
Service Procedures	44
Remote Control Unit	44
Service Record Chart	53
Sign-Off Form	18
Specifications	22
Bolt Grade Markings Chart	23
Bolt Specifications	23
Bolt Torque Values	23
Overall Seed Tender Specifications	22
Storage	41
General Information	41
Placing in Storage	41
Removing from Storage	41
Storage Safety	17

T	
Tires	54
Transport Safety	17
Troubleshooting	56
Electronics	56
Hydraulics	56
Troubleshooting Chart	56

U

Underbin Conveyor.....	50
Belt Replacement	51
Belt Tension Adjustment.....	50
Belt Tracking Adjustment.....	51
Unplugging.....	50
Unloading (Filling the Storage Bin)	36

W

Warranty.....	57
Warranty Statement	57
Wheel Bolt Torque Requirements.....	52
Wireless Remote Transmitter.....	28
Functions of Keypad Buttons	28
Remote Disable Feature	31

MERIDIAN MANUFACTURING INC.

With over 65 years of experience,
Meridian is your storage and handling expert.



AGRICULTURAL



INDUSTRIAL



OIL & GAS

Cambridge Office
605 Sheldon Drive
Cambridge, ON N1T 2K1
PH: 519.620.6004
TF: 855.346.3712
FX: 519.620.6041

Camrose Office
4232 - 38 St.
Camrose, AB T4V 4B2
PH: 780.672.4516
TF: 800.830.2467
FX: 780.672.4759

Lethbridge Office
3125 - 24 Ave. N.
Lethbridge, AB T1H 5G2
PH: 403.320.7070
TF: 800.661.1436
FX: 403.320.7579

Regina Office
PO Box 1996
Regina, SK S4P 3E1
PH: 306.545.4044
TF: 800.667.5904
FX: 306.545.4216

Storm Lake Office
2902 Expansion Blvd.
Storm Lake, IA 50588
PH: 712.732.1780
TF: 800.437.2334
FX: 712.732.1028

Winkler Office
Box 760, 275 Hespler Ave.
Winkler, MB R6W 4A8
PH: 204.325.7883
TF: 800.665.7259
FX: 204.325.5556

MERIDIAN

www.meridianmfg.com