



JOHN DEERE

OPERATOR'S MANUAL

20-bu 3-Point Hitch Material Collection System

LP65048
Supplier ST48289
04/11/22
English

Introduction

Using Your Operator’s Manual

Read this entire operator’s manual, especially the safety information, before operating.

This manual is an important part of your machine. Keep all manuals in a convenient location so they can be accessed easily.

Use the safety and operating information in the attachment operator’s manual, along with the machine operator’s manual, to operate and service the attachment safely and correctly.

If your attachment manual has a section called Preparing the Machine, it means that you will have to do something to your tractor or vehicle before you can install the attachment. The Assembly and Installation sections of this manual provide information to assemble and install the attachment to your tractor or vehicle. Use the Service section to make any needed adjustments and routine service to your attachment.

If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer or call the John Deere Customer Contact Center at 1-800-448-9282 for assistance.

Warranty information on this John Deere attachment can be found in the warranty that came with your John Deere tractor or vehicle.

All photos in this manual utilize the 1025R model.

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Product Compatibility

20-bu MCS Attachment is compatible with 1023E and 1025R compact utility tractors.

20-bu MCS Attachment is compatible with 2025R beginning with model year 2018, serial number HH100001

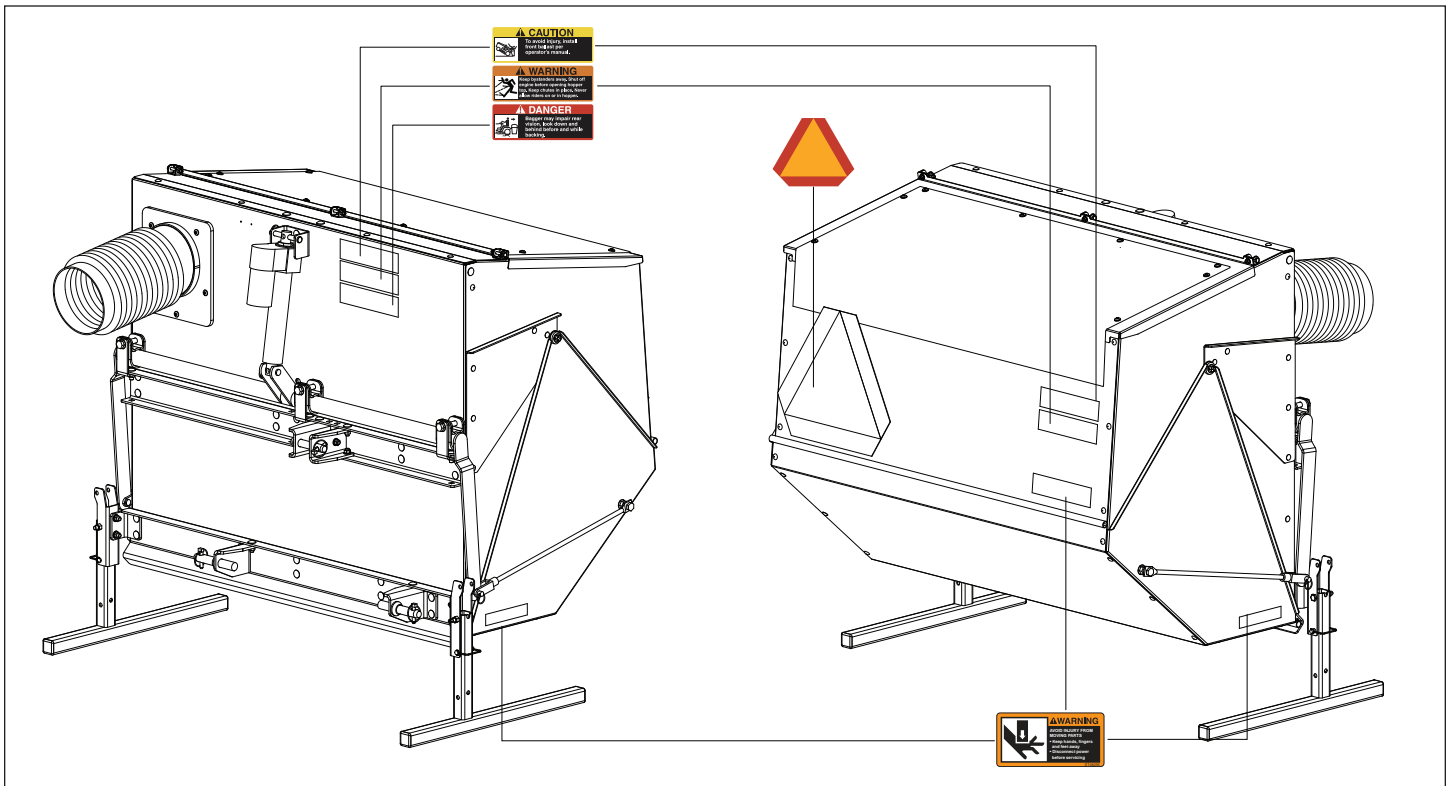
Original instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication.

The right is reserved to make changes at any time without notice.

Safety Labels

Safety Labels

Safety Label Location



Understanding The Machine Safety Labels



The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words **DANGER**, **WARNING**, and **CAUTION** are used with this safety-alert symbol. **DANGER** identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special messages that are identified with the word, **CAUTION**, and the safety-alert symbol.

Replace missing or damaged safety labels. Use this operator's manual for correct safety label placement.

There can be more safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

French or Spanish Safety Labels and Operator's Manual

Operator's manuals and safety labels with content in French or Spanish are available for this machine through authorized John Deere dealers.

Warning

Avoid Injury From Moving Parts



- Keep hands, feet and clothing away
- Disconnect power before servicing

Safety Labels

Warning



To Avoid Injury From Thrown Objects

- Keep bystanders away
- Shut off engine before opening hopper top
- Keep chutes in place
- Never allow riders on hopper top or on frame
- Disconnect power before servicing

Caution



To Avoid Injury

- Install front ballast per operator's manual

Danger



Bagger may impair rear vision

- Look down and behind before and while backing

Safety

Read Safety in Machine Operator's Manual

Read the general safety operating precautions in your machine installation instruction manual for additional safety information.

- The MCS is limited to carrying only grass or leaves.
- Be aware when maneuvering your machine because the MCS increases vehicle length.
- DO NOT allow anyone to ride in the MCS unit.
- Be aware of the potential pinch point when closing the tailgate.

Operating Safely

- Read the machine and attachment operator's manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the machine and disengage the controls quickly.
- This attachment is intended for use in property maintenance applications. Do not use for use other than intended by the manufacturer. Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.
- Do not let children or an untrained person operate machine.
- Make any necessary adjustments before you operate. Never attempt to make any adjustments while the engine is running, unless it is recommended in adjustment procedure.
- Look behind machine before you back up. Back up carefully.
- Never carry passengers, especially children, on machine or attachment. Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders may also obstruct the operator's view, resulting in the machine being operated in an unsafe manner.
- Disengage any power to the attachment when the machine is transported or not in use.
- Never exceed 15 mph when loaded spreader is attached to vehicle. Braking distances may be increased and handling characteristics may be impaired at speeds above 15 mph.
- Never use wet materials or materials with foreign debris in the spreader. This unit is designed to spread dry, clean, free-flowing material.

- Never leave material in hopper when not in use.
- Weight of mounted machines, including their loads, can influence vehicle maneuverability. Refer to vehicle OM for ballasting.

Practice Safe Maintenance

- Only qualified, trained adults should service this machine.
- Understand service procedure before doing work. Keep area clean and dry.
- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Never lubricate, service or adjust the machine or attachment while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- Keep hands, feet, clothing, jewelry, and long hair away from any moving parts, to prevent them from getting caught.
- Lower any attachment completely to the ground or to an existing attachment mechanical stop before servicing the attachment. Disengage all power and stop the engine. Lock park brake and remove the key. Let machine cool.
- Disconnect the negative battery cable(s) before making any repairs.
- Before servicing machine or attachment, carefully release pressure from any components with stored energy, such as hydraulic components and springs.
- Release hydraulic pressure by lowering attachment or cutting units to the ground or to a mechanical stop and move hydraulic control levers.
- Securely support any machine or attachment elements that must be raised for service work. Use jack stands or lock service latches to support components when needed.
- Never run engine unless park brake is locked.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals.

Safety

- Check all hardware at frequent intervals to be sure the equipment is in safe working condition.
- Do not modify machine or safety devices. Unauthorized modifications to the machine or attachment may impair its function and safety.

Parking Safety

1. Stop machine on a level surface.
2. Lock the park brake
3. Stop the engine
4. Remove the key
5. Wait for engine and all moving parts to stop before you leave the operator's seat

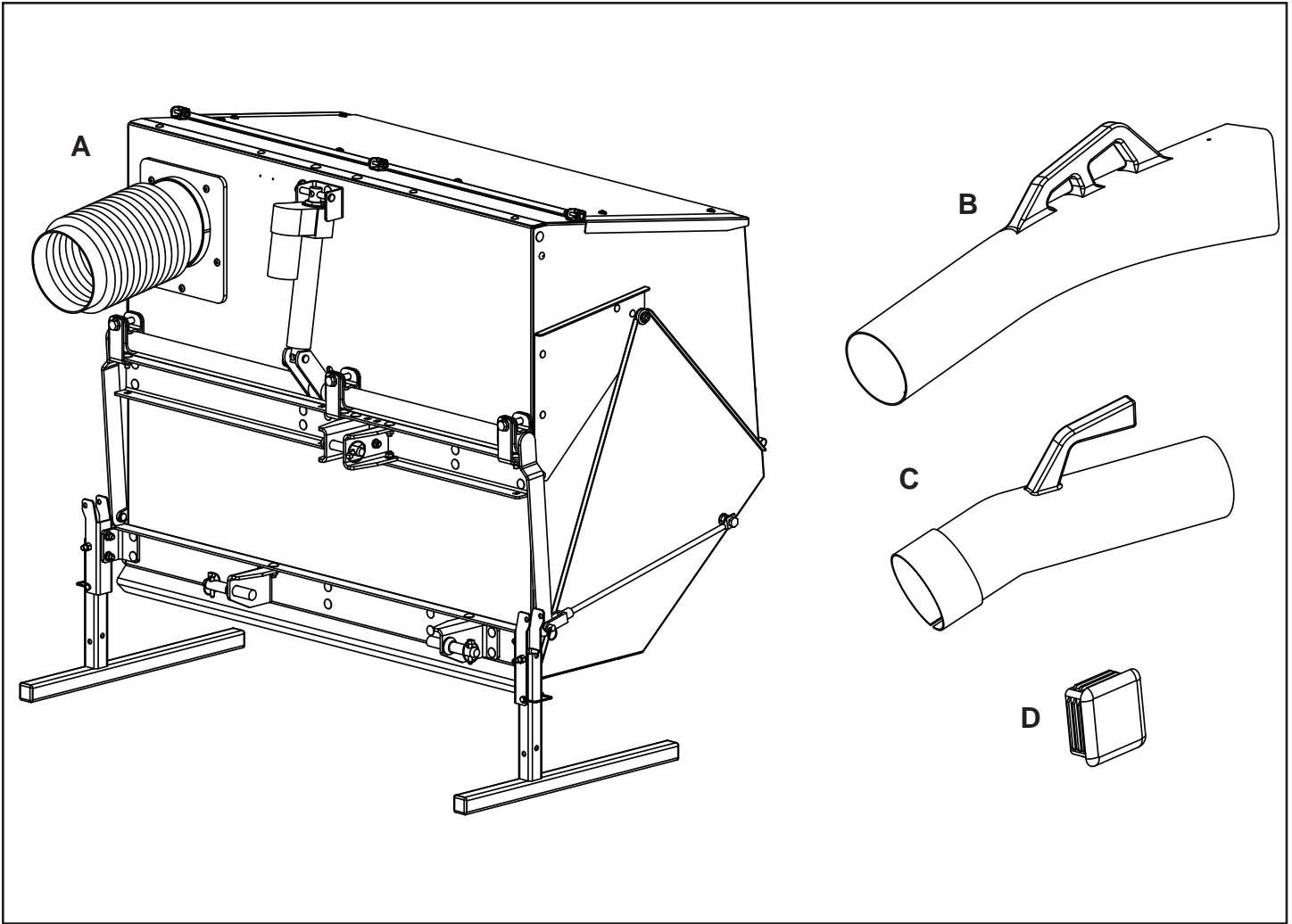
Wear Appropriate Clothing



- Always wear eye protection when operating the machine.
- Wear close fitting clothing and safety equipment appropriate for the job.
- While operating this machine, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Wear a suitable protective device such as earplugs. Loud noise can cause impairment or loss of hearing.

Assembly

Parts in Kit



Description	Letter	Qty
MCS	A	1
Power Flow Chute Top	B	1
Power Flow Chute Bottom	C	1
Plastic Tube Cap	D	4

Wiring Kit

Description	Letter	Qty
Control Switch	Not Shown	1
Battery Relay Harness	Not Shown	1
Actuator Extension Wire	Not Shown	1
#10 x 1/2" Sheet Metal Screw	Not Shown	2
Wire Tire	Not Shown	10

Light Bracket Kit

Description	Letter	Qty
Light Brackets	Not Shown	2
Backing Plate	Not Shown	2
5/16 X 5/8 Flange Bolt	Not Shown	4
5/16" x 4" Hex Bolt	Not Shown	4
M8 x 15 Hex Bolt	Not Shown	4
5/16" Nylon Lock Nut	Not Shown	4
5/16" Flange Nut	Not Shown	4

Installation

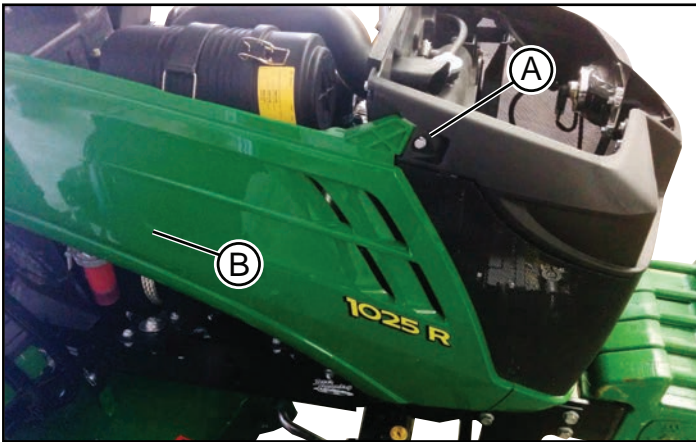
Installing Ballasts

Compact Utility Tractors

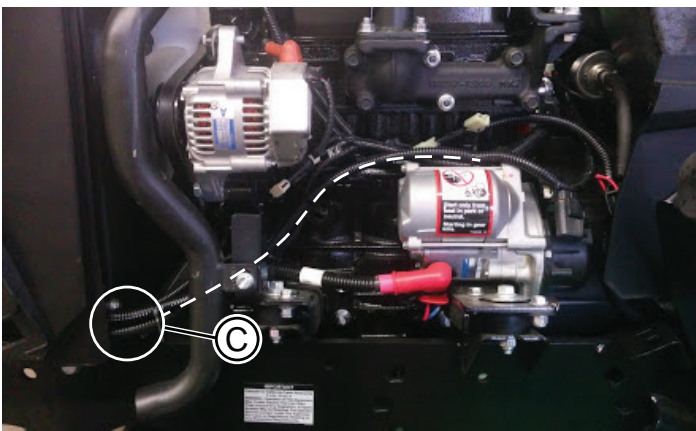
Requires five 42lb (19 kg) suitcase weights (R66949); not included.

Wiring Instructions

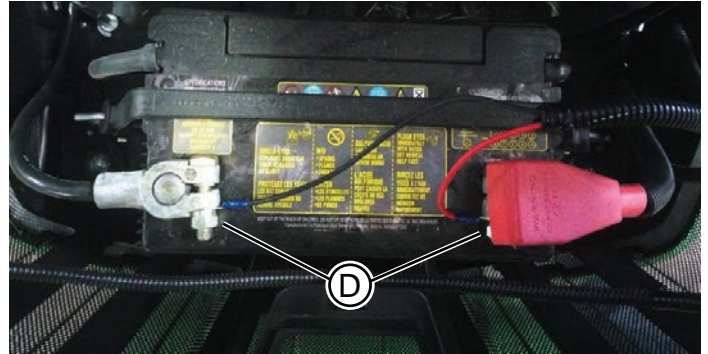
1. Remove the mower deck from the tractor, and park the tractor.
2. Wait for tractor to cool before working around the engine.
3. Open the hood.
4. Remove the bolt (A) that secures the side panels using the 10mm wrench, 10mm socket and ratchet. Slide the panel (B) towards the rear of the tractor and remove the panel. Repeat on opposite side.



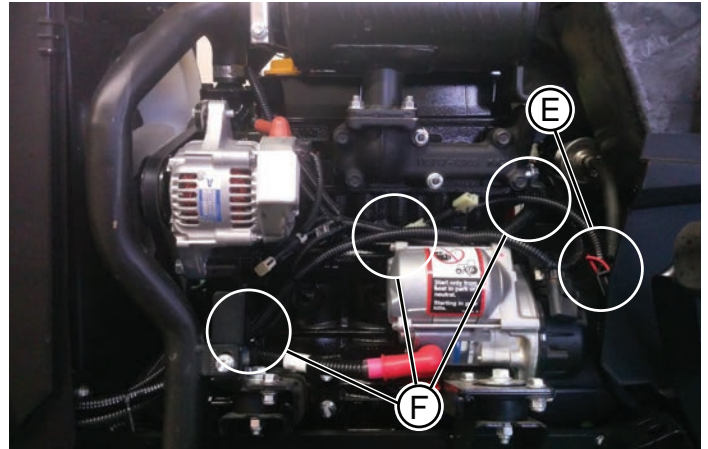
5. On the Left side of the tractor, following the other loomed wires, insert battery ring terminals behind the exhaust bracket and into same hole as the existing wire harnesses (C).



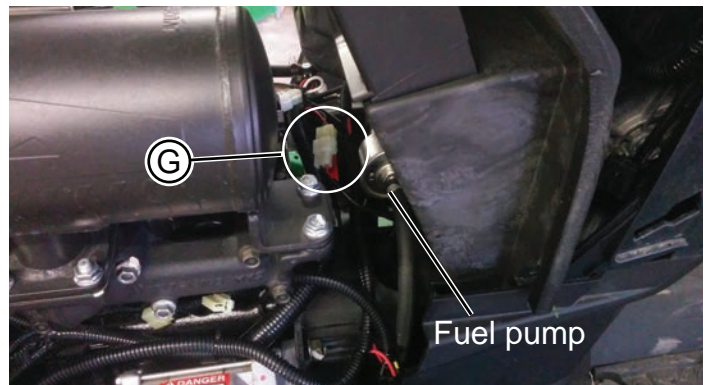
6. Attach ring terminals to the battery terminals. Use a 13mm wrench to remove battery terminal nut, slide ring terminal over the bolt, and reinstall nut (D). Make sure that the positive (+) battery terminal is attached to the red wire and the negative (-) battery terminal is attached to the black wire.



7. Place the relay in the corner (E) and secure harness with zip ties at the recommended locations (F).

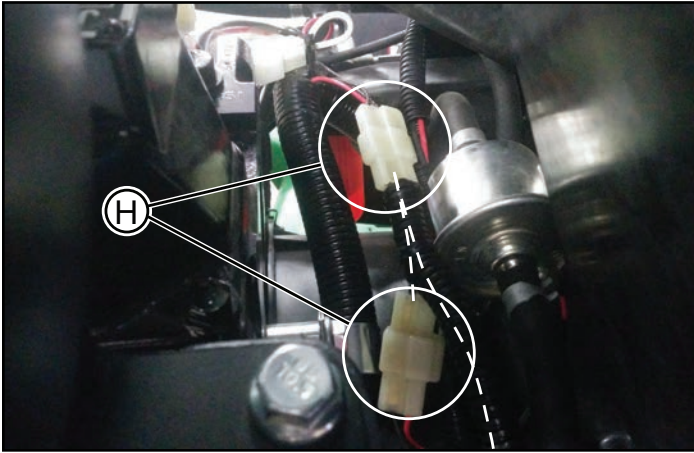


8. Locate and disconnect the fuel pump connector (G).

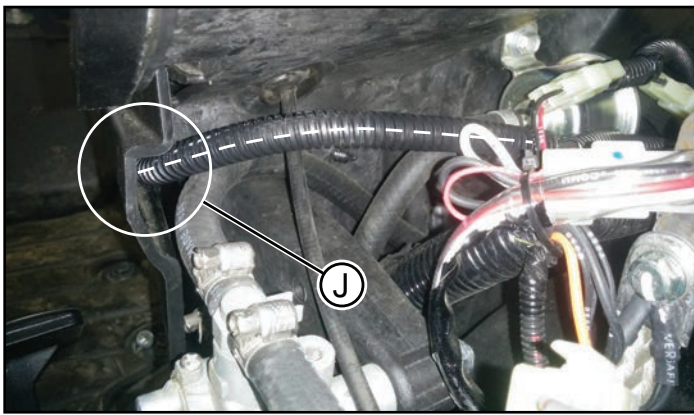


Installation

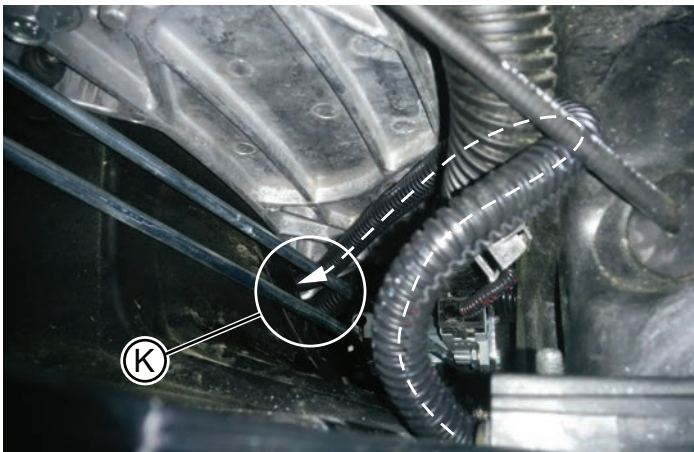
9. Plug the wire harness pigtail (H) in-line with the fuel pump connector. Secure with a zip tie to the tractor harness.



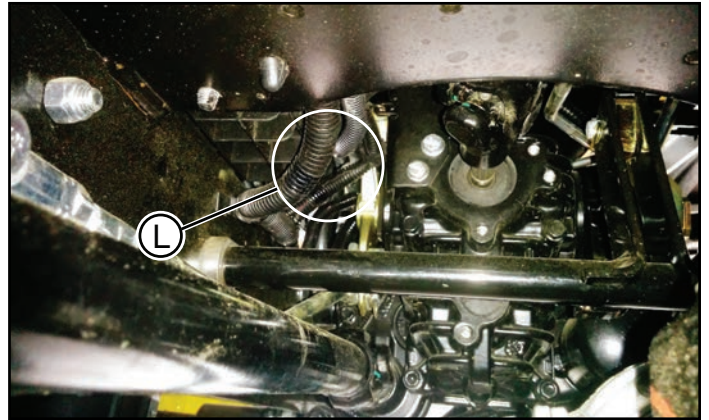
10. Moving to the other side of the tractor, continue routing the wire harness between the plastics (J) above the fuel filter.



11. Looking in to the side of tractor, continue pulling the wire and thread it down through the hole next the existing loomed harness (K). It is recommended to loop around the main tractor harness to prevent the wire harness from contacting the linkages.



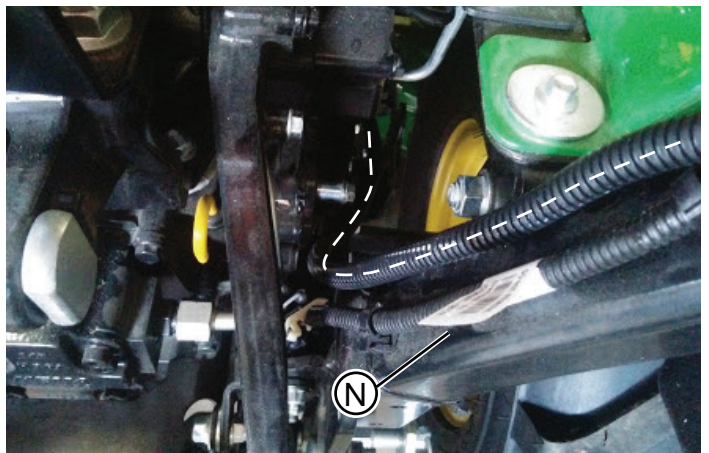
12. Moving to the under side of the tractor, pull all the slack through and secure harness with zip tie to the tractor harness (L). Continue routing the wire harness parallel with the tractor harness towards the right rear of the tractor.



13. Continue at the rear right side of the vehicle, secure the harness with a zip tie to the loom (M) along the right rear main frame of the tractor.

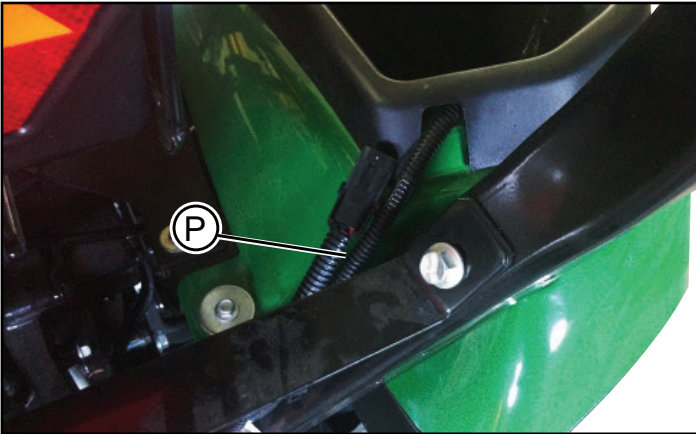


14. Working from the rear of the tractor, continue routing the wire harness up the Roll Over Protection Bar and secure to the existing harness (N).



Installation

15. Secure the plug to the loom (P) and bundle up any excess wire.



16. Hang control switch assembly in to the storage compartment as shown.



17. Secure the control switch with the supplied screws in the two locations (Q) using a Phillips head screw driver. The seat will fold front to allow for more room for installation.

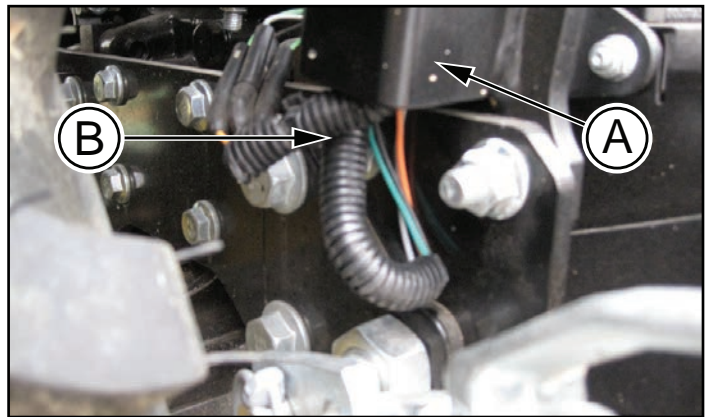


18. Connect the longer wire from the switch to the power plug and the short wire to the MCS.

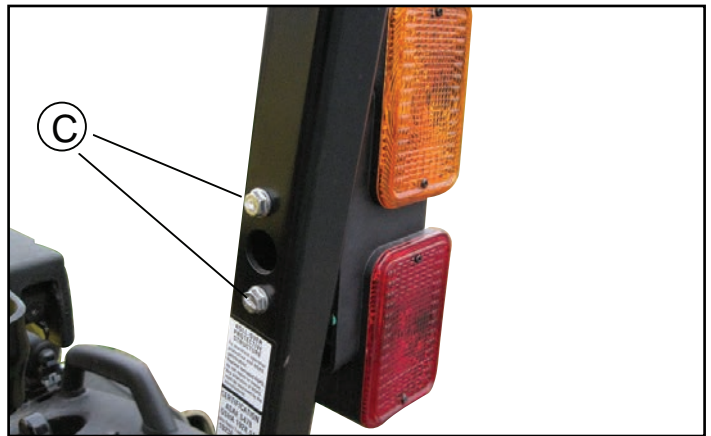


Raising lights instructions

1. At the bottom of the Roll Over Protection (ROP) tube (A), pull the wire bundle (B) out and cut wire tie.

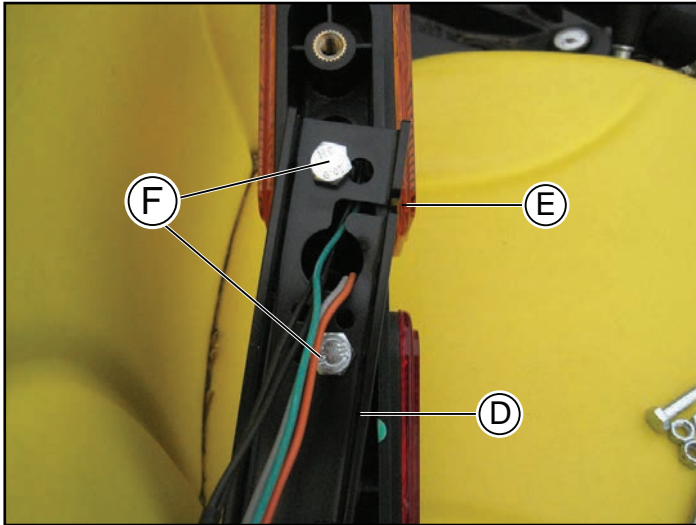


2. While holding lights, remove bolts (C).



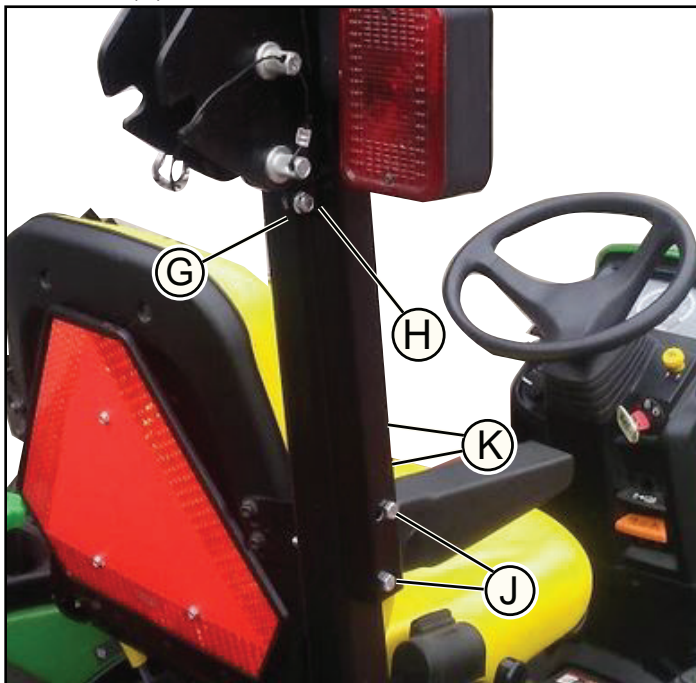
Installation

3. Pull the lights away from the ROP. It may be necessary to help the wire through the bottom of the ROP tube.
4. Set light bracket (D) on lights feeding the wires through the slot (E). Connect lights to light bracket using two M8 x 15 Hex Bolts (F).

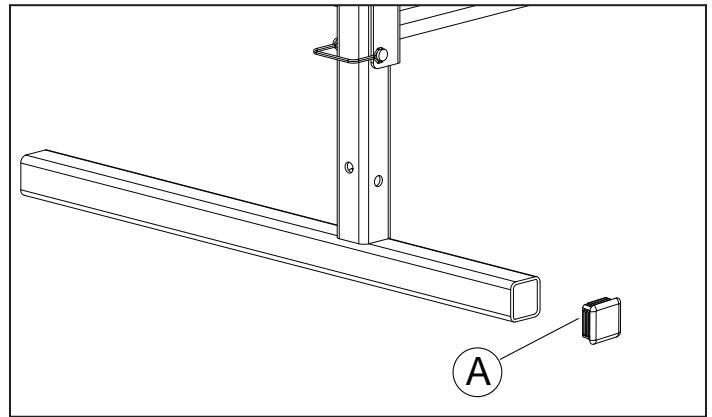


Picture Note: Right side shown, for left side use opposite holes.

5. With wires in the channel, install Back Plate (G) using 5/16" x 5/8" Flange Bolts (H) and 5/16" Flange Nut.
6. Fasten light bracket to t using two 5/16" x 4" Hex Bolt (J) and 5/16" Nylon Lock Nuts.
7. Use holes shown for 2017 and older Models. Use holes (K) for 2018 and newer.



Installing Endcaps



1. With MCS setting on the ground, insert plastic tube cap (A) into ends of tube.

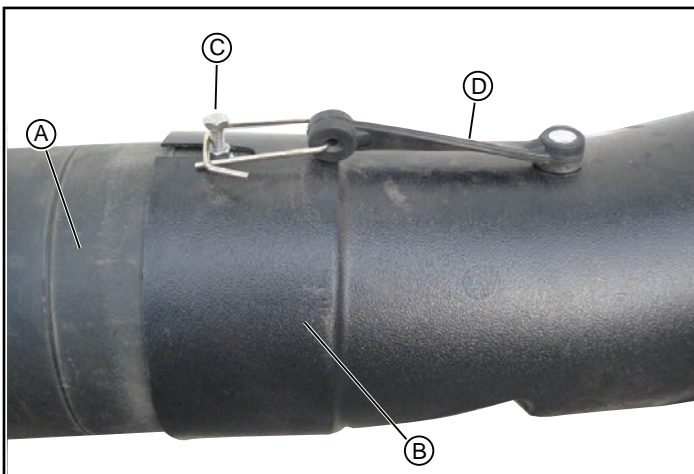
Installation

Attaching MCS to Tractor

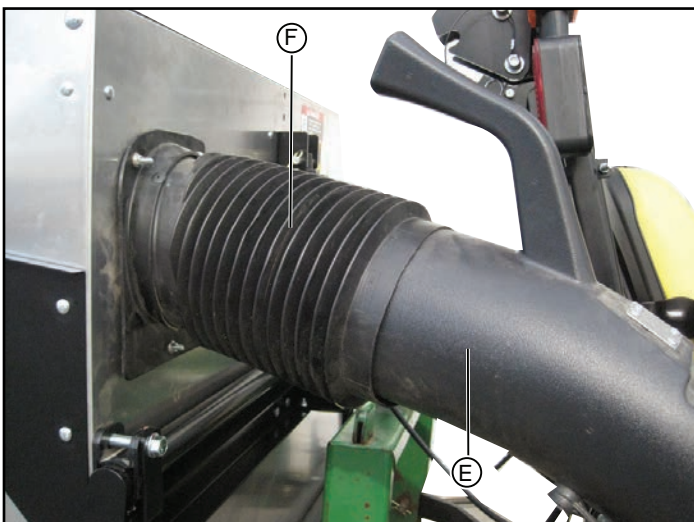
1. Park machine safely. (See Parking Safely in Safety section).
2. Lower tractor lift link to lowest position.
3. Mount MCS on 3-Point hitch.
4. Insert SMV sign in to the holder located on the left rear of the MCS.

Installing

1. Connect MCS to 3-Point hitch or lift with iMatch.
2. Align bolt (C) in the upper Chute (A) with the slot in the Lower Chute (B). Attach chutes together with strap (D).



3. Insert the Upper chute (E) a minimum of 6" into the MCS chute (F).



4. Connect the rectangular end of the Lower Chute (G) to the power flow (H), secure with strap (I).

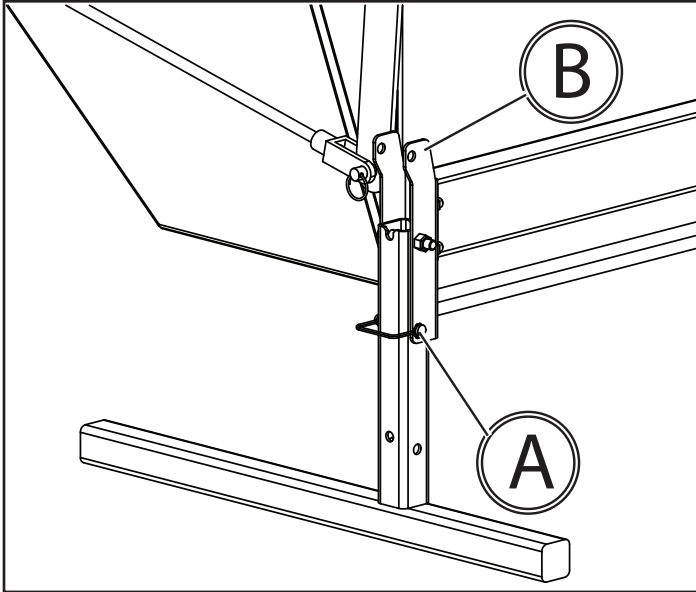


Operation

Note: Lift MCS with 3 point lift and flip legs up before use.

Remove wire lock pin (A) and fold leg up. Secure with wire lock pin through the same hole in the leg and hole (B) of the support.

DO NOT set MCS down on legs with material in hopper.



DO NOT open MCS if it is not connected to tractor.

Note: To prevent damage to the MCS, DO NOT use with legs in down position.

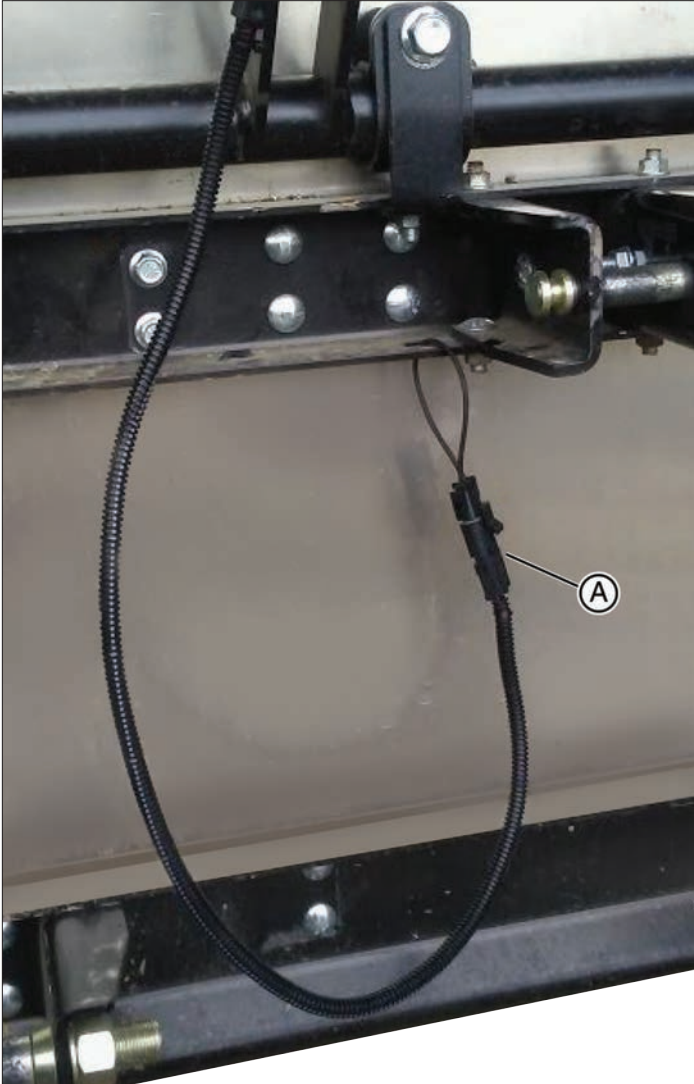
Keep MCS as high as possible when mowing. Drop 3-Point arms until mower deck is at cutting height. Do not lower 3 point arms all the way down while operating.

To empty, lift 3 point all the way up and hold the control switch in the open position until fully open. Drive forward away from the pile before closing. To close, hold the control switch in the close position until fully closed.

Do not backup vehicle while emptying MCS.

Removal and Storage

1. Fold legs down and secure with wire lock pin.
2. Lower 3-Point arms to set MCS on ground.
3. Disconnect actuator extension wire from switch and connect to storage plug (A).



Specifications

MCS

Hopper Volume	0.7 cu m (25 cu ft)
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Dimensions

Length	27 in (69 cm)
Width	48 in (121 cm)
Height	39 in (99 cm)

Weight

Empty	225 lb (102 kg)
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Materials

Hopper	Aluminum
Hopper Gate	Steel
Lid	Perforated Aluminum with Fabric Cover
Chute	Polyethylene

Electrical

Fuse	30A 32 V ATOF/ATO
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Troubleshooting

Bin Not Opening to Dump Collected Material

- Check the inline fuse located on the positive wire near the battery. If the fuse is blown, replace it with a ATO/ATC 30 amp slow-blow fuse.
- Make sure all wire connections are tight and clean.
- Make sure the wiring harness is not damaged and is free of nicks.
- Using a voltmeter, verify that 12 volts DC is present at the actuator connector when the rocker switch is pressed in either direction. The voltage will be either positive or negative depending on the switch position.

If bin still does not open, contact Agri-Fab for support.

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Good Quality Service

John Deere provides a process to handle your questions or problems, should they arise, to ensure that product quality continues with quality parts and service support.

Follow the steps below to get answers to any questions you may have about your product.

Refer to your attachment and machine operator manuals.

In North America or Canada, call Agri-Fab Customer Service at 1-800-448-9282 and provide product serial number (if available) and model number.

Warranty

Limited Warranty for New John Deere Licensed Products

Agri-Fab's attachments are guaranteed to be free from defects in material and workmanship from the date of purchase for 1 year residential use, 6 months commercial use, provided that the purchaser properly assembles, installs, uses and maintains the products in accordance with this manual.

Purchaser's failure to adhere to such requirements will void the warranty. To the extent permitted by applicable law, all other warranties, representations, obligations and conditions, expressed or implied, including but not limited to implied warranties of merchantability, fitness for any particular purpose and non-infringement, are hereby disclaimed and excluded.

Any product which does not meet warranty shall, as purchaser's sole and exclusive remedy, be repaired or replaced by Agri-Fab. This warranty is non-transferable.

- In addition, our warranty does not cover:
- Labor charges.
- Loss or consequential, incidental or special damages of any kind.

This product was manufactured by Agri-Fab, Inc, a John Deere Licensee. If you have any questions or concerns with the assembly, installation, or operation of this attachment, see your local John Deere dealer or call Agri-Fab at 1-800-448-9282 for assistance.

