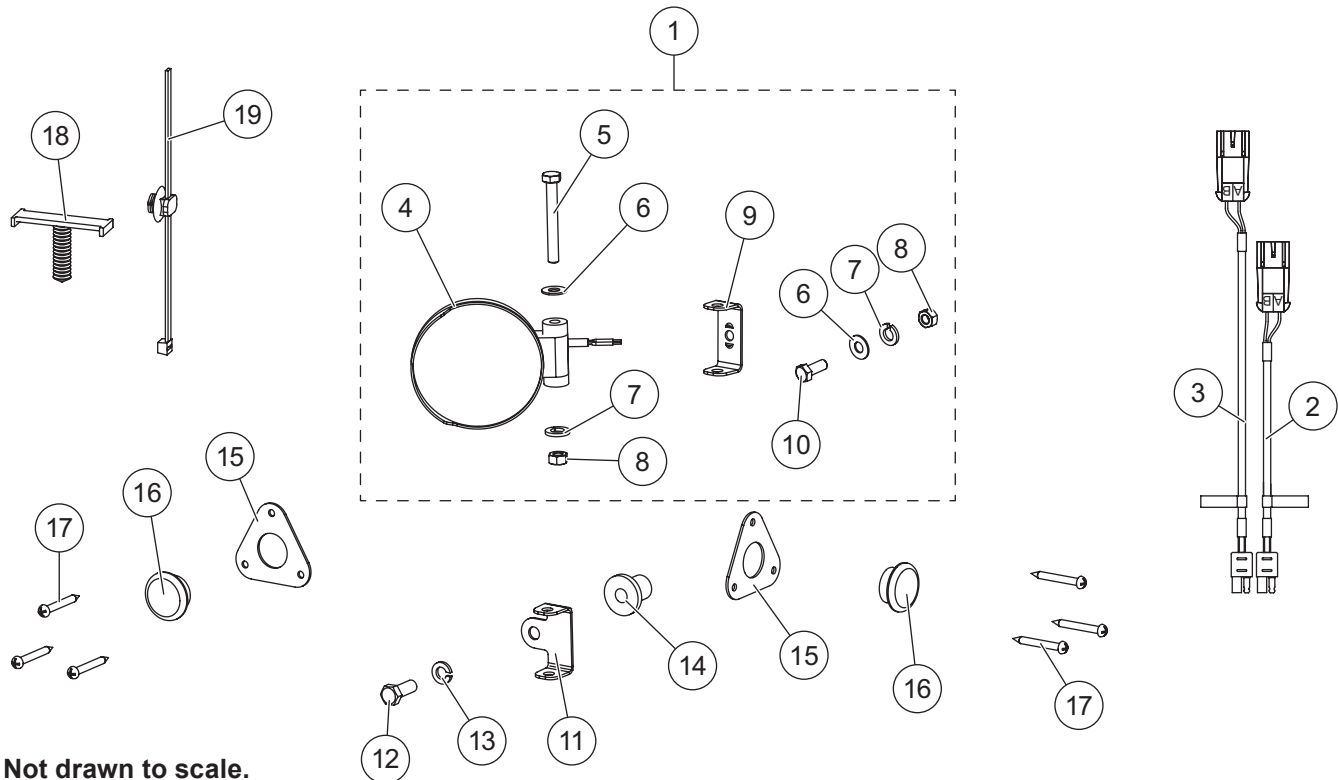


Auxiliary Work Light Kit

Stainless Steel & Poly Hopper Spreaders with FLEET FLEX Electrical System and Liquid Spray Systems

PARTS LIST



Not drawn to scale.

99732-2 Auxiliary Work Light Kit							
Item	Part	Qty	Description	Item	Part	Qty	Description
1	78377	1	LED Work Light Kit	ns	32309	1	Work Light Mounting Kit
2	78378	1	Harness Assembly – 56"	ns		1	Cable Tie – 25"
3	78386	1	Harness Assembly – 72"				
Item 1 78377 LED Work Light Kit							
4		1	LED Work Light	8		2	5/16-18 Hex Nut SS
5		1	5/16-18 x 2-1/2 Hex Cap Screw SS	9		1	Standard Work Light Bracket
6		2	5/16-18 Flat Washer SS	10		1	5/16-18 x 1 Hex Cap Screw SS
7		2	5/16-18 Lock Washer SS				
32309 Work Light Mounting Kit							
11		1	Work Light Mounting Bracket – Poly	17		6	#10 x 1-1/2 Pan Head Phillips Screw SS
12		1	3/8-16 x 1-1/2 Hex Cap Screw SS	18		4	Bundling Clip
13		1	3/8 Lock Washer SS	19		4	Fir Tree Mount w/Cable Tie
14		1	3/8-16 Well Nut	ns		10	Cable Tie – 14" Black
15	78561	2	Mounting Plate – Acc. Work Light				
16	99195	2	Break-Thru Plug				
ns = not shown				SS = Stainless Steel			

⚠ WARNING

Do not exceed GVWR or GAWR ratings as found on the driver-side vehicle door cornerpost.

⚠ CAUTION

Read this document before installing the auxiliary work light.

⚠ CAUTION

Use standard methods and practices when attaching spreader and installing accessories, including proper personal protective safety equipment.

INSTALLATION INSTRUCTIONS

Gas Spreader: The accessory bracket and harness kit must be installed before the work light can be installed.

Hydraulic Spreader: The accessory enclosure and harness kit must be installed before the work light can be installed.

Electric Stainless Steel Spreader: The primary work light relay/fuse assembly must be installed prior to this auxiliary light kit.

Liquid Spray Systems: The primary work light relay/fuse assembly must be installed prior to this auxiliary light kit.

Install Brackets and Lights

1. Park the vehicle on a smooth, level, hard surface, such as concrete. Turn the vehicle ignition to the "OFF" position and remove the key.

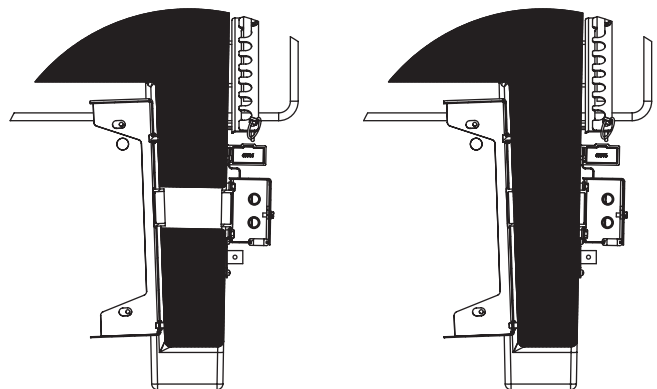
⚠ CAUTION

Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged by drilling.

2. Consider the size and placement of the work light mounting plate before drilling holes for harnesses. **If holes are already present from an existing strobe light, or the work light is being installed on a stainless steel spreader, continue to Step 3. For poly hopper spreader with stainless steel chute, continue to Step 6.**

For poly hopper spreaders with a 3" molded-in leg hole, drill two 1-1/4" holes as shown in the following illustrations. Harnesses will be fed through these holes.

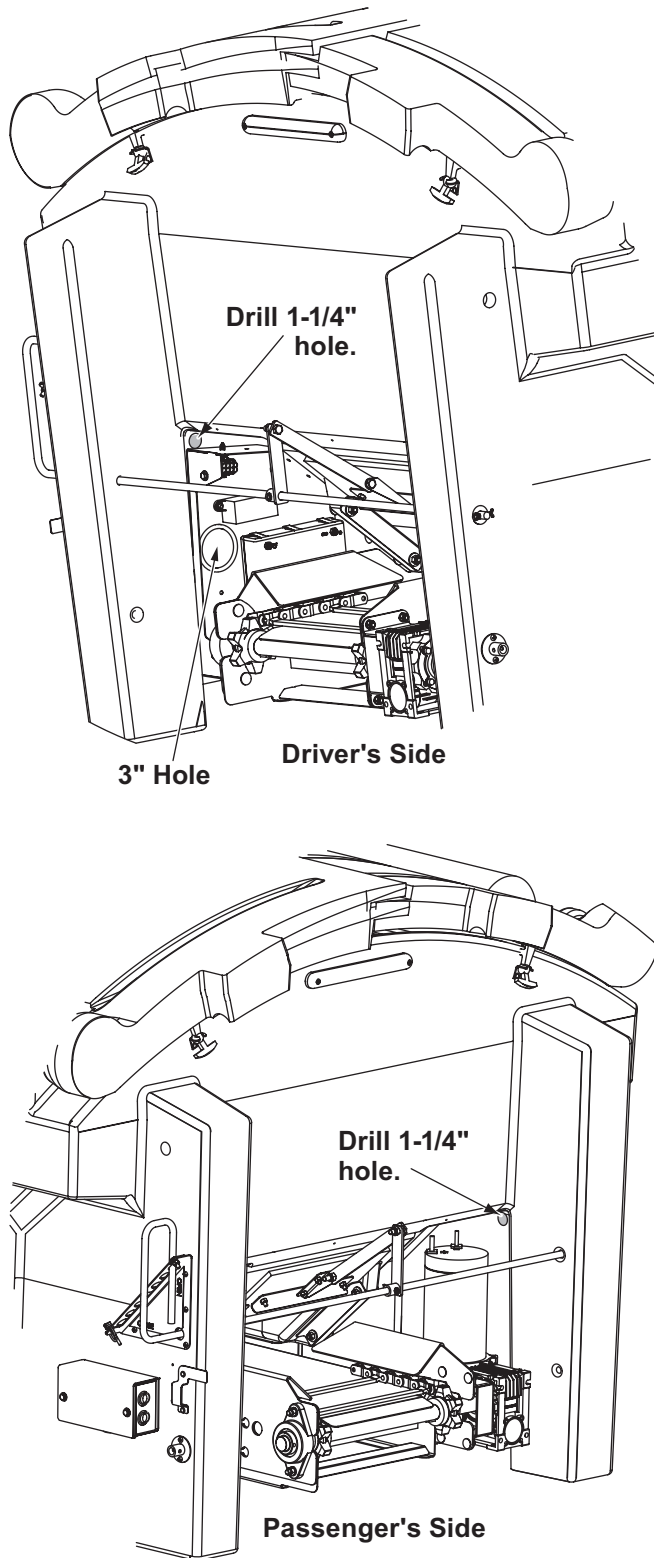
For Reference: 3" Molded-In Leg Hole



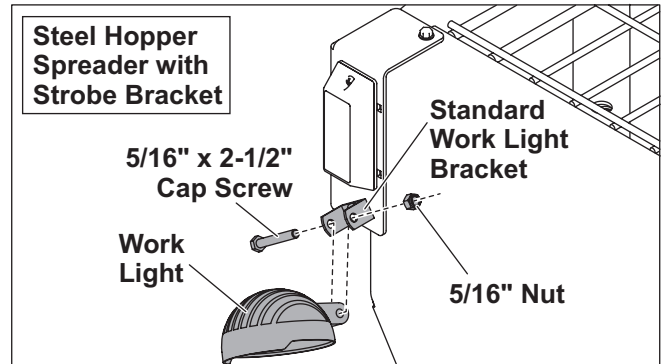
Molded-In Leg Hole

No Molded-In Leg Hole

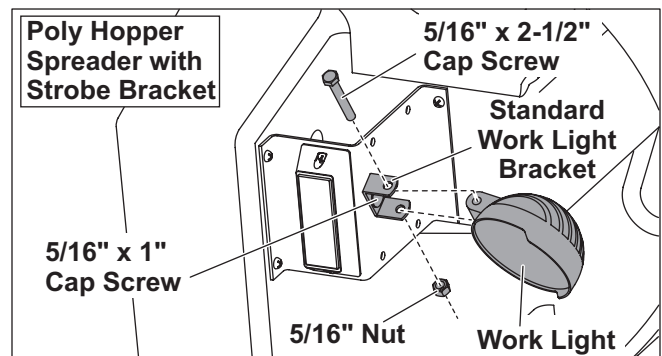
Poly Spreader with 3" Molded-In Leg Hole



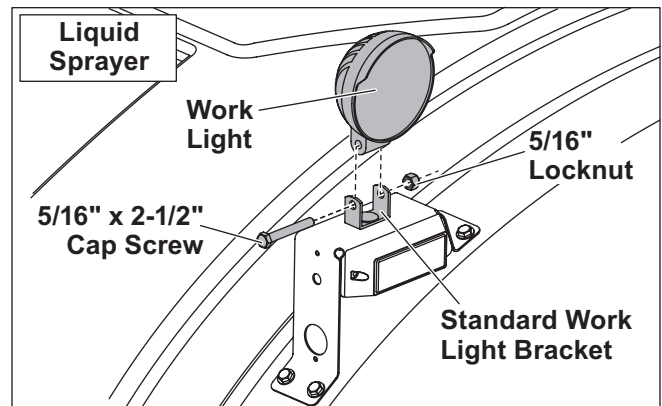
- The illustrations below show the work light being mounted to a previously installed strobe light bracket. Install the standard work light bracket in the desired location using the supplied 5/16" x 1" cap screw, 5/16" flat washer, 5/16" lock washer, and 5/16" nut.



Note: 5/16" lock washers and 5/16" flat washers not shown



Note: 5/16" lock washers and 5/16" flat washers not shown



Note: 5/16" lock washers and 5/16" flat washers not shown

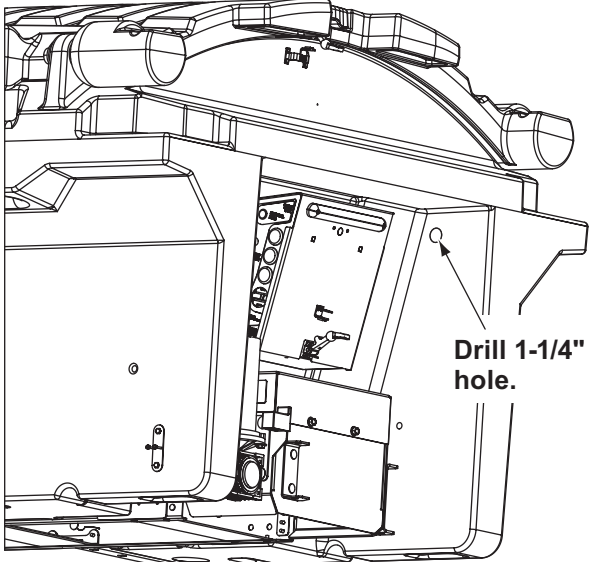
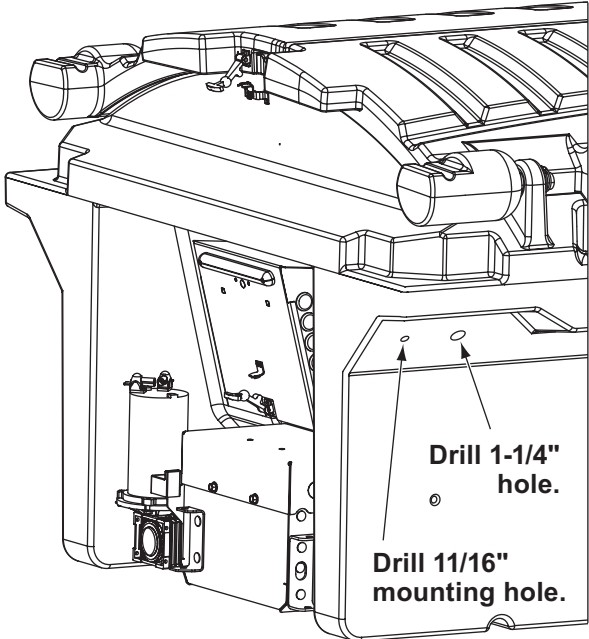
- Assemble and install the work light to the standard work light bracket using a 5/16" x 2-1/2" cap screw inserted into a 5/16" flat washer and the work light, and secure with a 5/16" lock washer and 5/16" nut.

5. Aim the light in the desired direction, then fully tighten the fasteners.
6. Depending on the hopper size and chosen work light location, select the appropriate wiring harness length from the kit, and plug the harness into the matching connector on the work light. Continue to Securing and Routing the Harness.

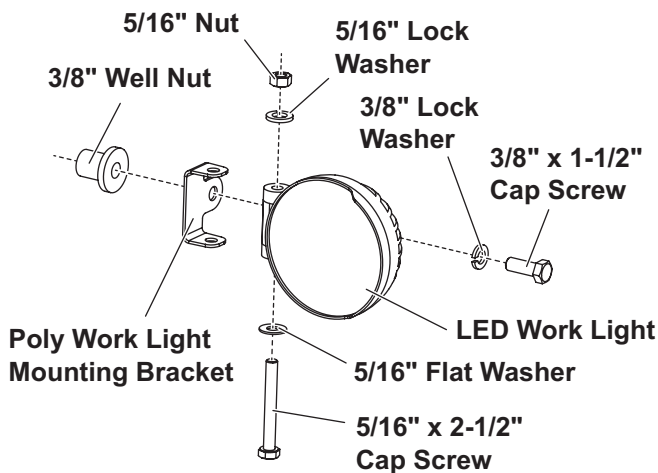
⚠ CAUTION
Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged by drilling.

7. For poly hopper spreader with stainless steel chute, choose a side to mount the work light and drill two 1-1/4" holes into the angled wall of the hopper as shown. The harness will be fed through these holes.

Poly Spreader with Stainless Steel Chute



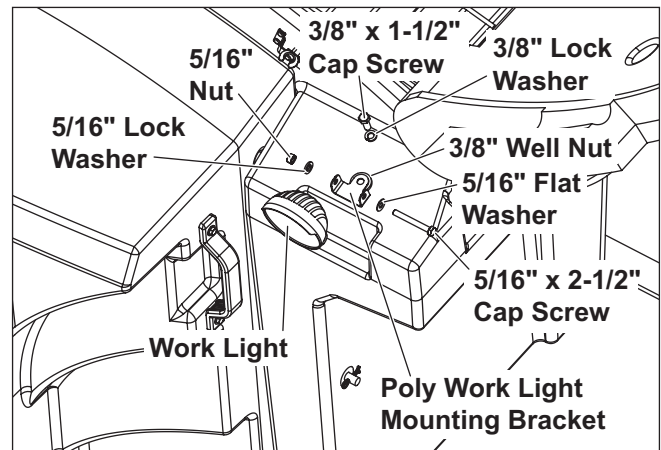
8. Drill a 1/16" mounting hole next to the hole drilled in the outer angled wall (as shown previously) and insert a 3/8" well nut into the hole.
9. Assemble the work light to the poly work light mounting bracket using the supplied 5/16" x 2-1/2" cap screw inserted through a 5/16" flat washer, and secure with a 5/16" lock washer and a 5/16" nut.



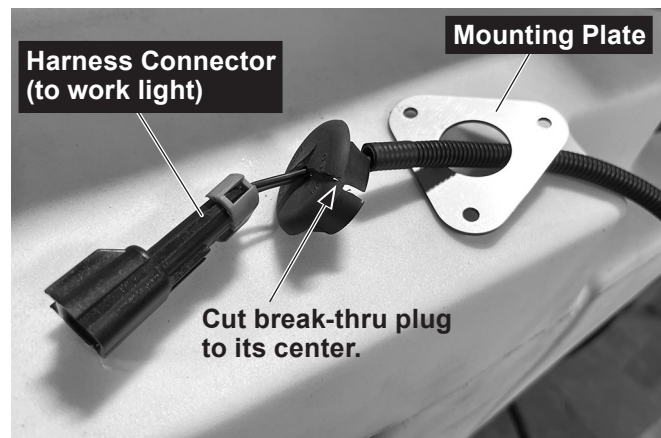
10. Install the work light assembly to the well nut in the hopper wall using a 3/8" x 1-1/2" cap screw and 3/8" lock washer and tighten into place. Angle and rotation of the work light can be adjusted at any time, without having to disassemble the parts.

Older Poly Hopper with Poly Chute Cover

The work light and bracket can be installed similarly to the above Steps 7–10 on older poly hopper models with poly chute covers. For this type of application, install the work light above the strobe light insets using the poly work light mounting kit.



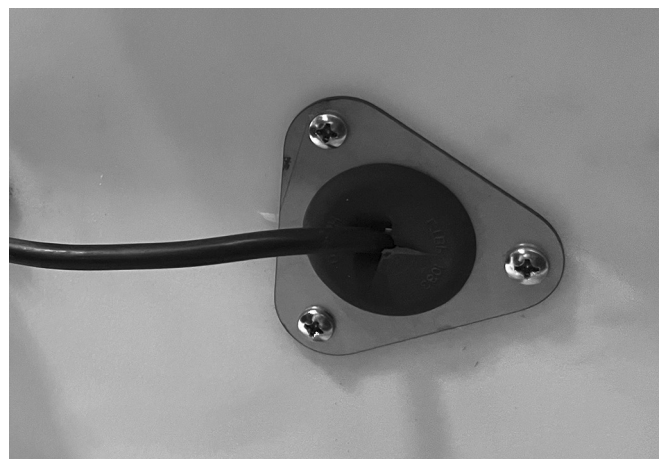
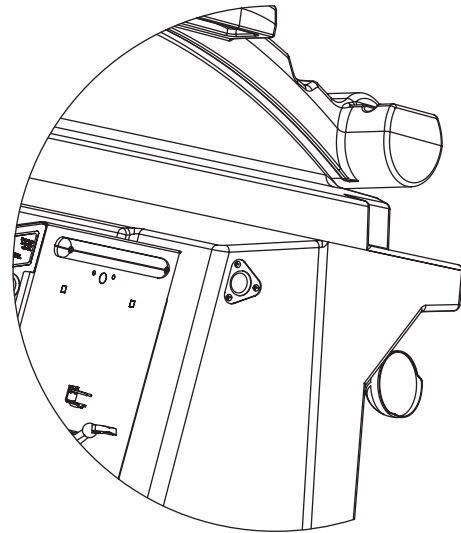
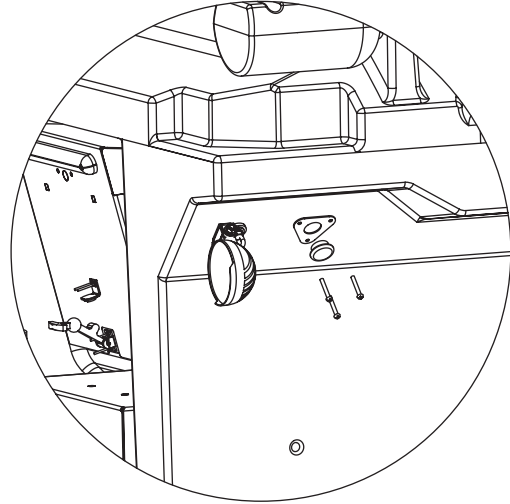
11. Depending on the hopper size and chosen work light location, select the appropriate wiring harness length from the kit, and plug the harness into the matching connector on the work light.
12. Cut the break-thru plug from its edge to its center. Route the harness through both the plug and the mounting plate as shown.



13. Loop the longest zip tie into a 3" loop and insert into the innermost 1-1/4" hole drilled in the hopper wall, so that the loop is accessible from the outside of the hopper. While holding the zip tie secure at the inner hole, feed the free end of the work light harness through the loop, and then pull both the loop and the harness back through the two holes.



14. Cut a second break-thru plug to its center. Install the mounting plates on either side of the hopper wall using #10 x 1-1/2" screws and snap plugs into place.



Securing and Routing the Harness

⚠ CAUTION

Before drilling holes, check to be sure that no vehicle wiring or other components could be damaged by drilling.

1. Secure the work light harness:

Stainless Steel Hoppers: *If the work light is being mounted on an existing strobe light bracket, secure the work light harness to the strobe light harness using the supplied cable ties.*

If the work light harness will not be mounted on an existing strobe light bracket, the fir tree mounts will be used to secure the harness between the work light and the electrical enclosure. Drill 1/4" holes in the desired locations for attaching the fir tree mounts. Push the fir tree mounts into the holes and secure the work light harness to the hopper with the attached cable ties.

NOTE: All riveted stainless steel spreaders have knockouts in the end cap for use instead of drilled holes.

Poly Hoppers: *If the work light is being mounted on an existing strobe light bracket, route the work light harnesses with the existing strobe light harnesses.*

If the work light harness will not be mounted on an existing strobe light bracket, drill 1/4" holes in the desired locations for attaching bundling clips. Secure the harness with cable ties.

Liquid Sprayer

If the work light is being mounted on an existing strobe light bracket, secure the work light harness to the strobe light harness using supplied cable ties.

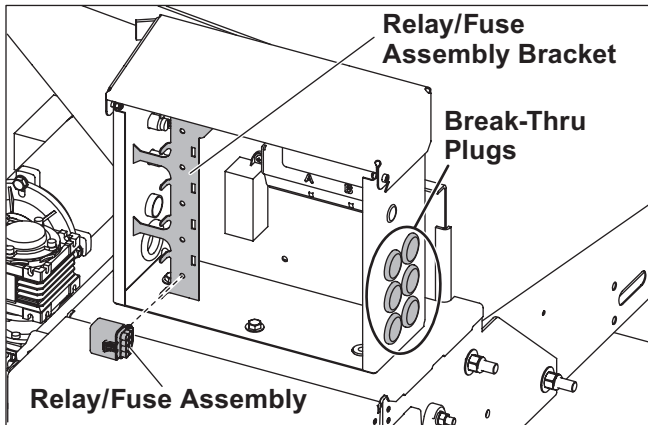
If the work light harness will not be mounted on an existing strobe light bracket, the fir tree mounts will be used to secure the harness between the light and the electrical enclosure. Drill 1/4" holes in the desired locations for attaching the fir tree mounts.

NOTE: Do not drill harness mounting holes in the liquid tank.

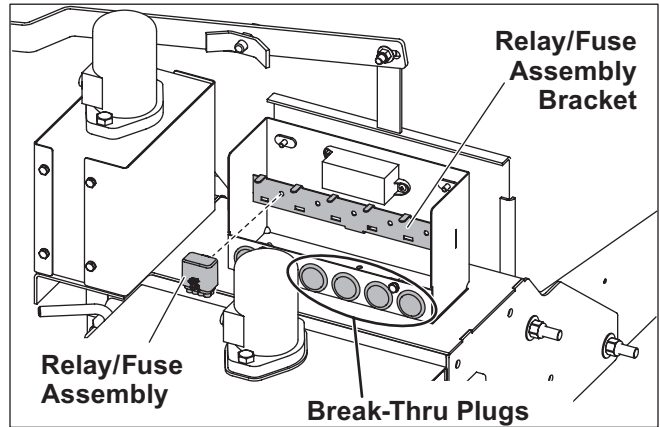
Push the fir tree mounts into the holes and secure the work light harness to the hopper with the attached cable ties. Coil and secure any excess harness.

2. **Stainless Steel Electric/Hydraulic Spreader:** Cut a hole in one of the break-thru plugs and feed the harness into the enclosure. The hole should be sized to form a tight seal around the harness.

Welded Stainless Steel Electric Spreader

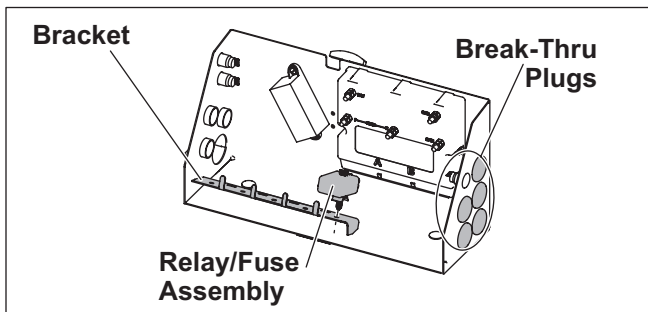


Hydraulic Spreader

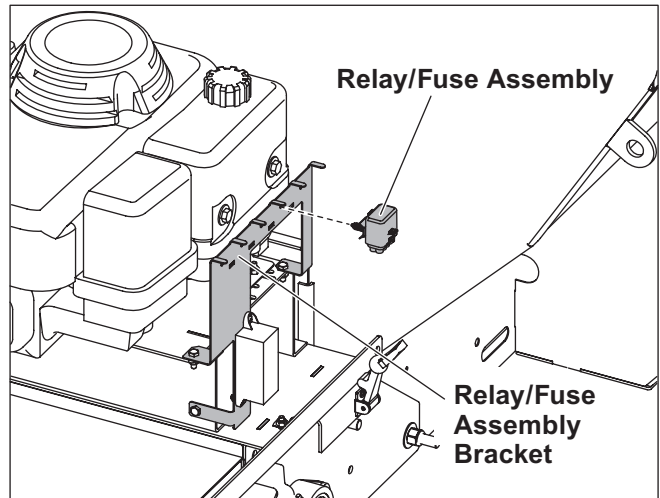


Gas Spreader: Route the harness into the engine compartment on the right side, just forward of the engine mounting plate, taking care to position the harness where the engine cover will not contact the harness when it is closed.

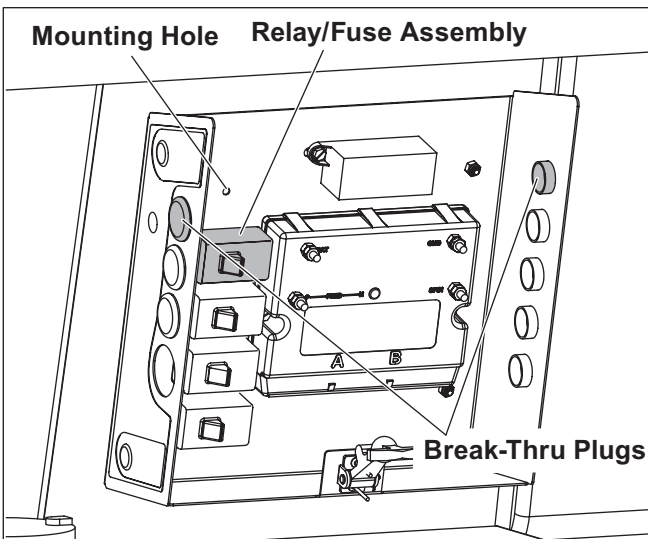
Riveted Stainless Steel Spreaders – 0.35 & 0.7 yd³



Gas Spreader



Riveted Stainless Steel Electric Spreaders – 1.5 yd³–5.0 yd³

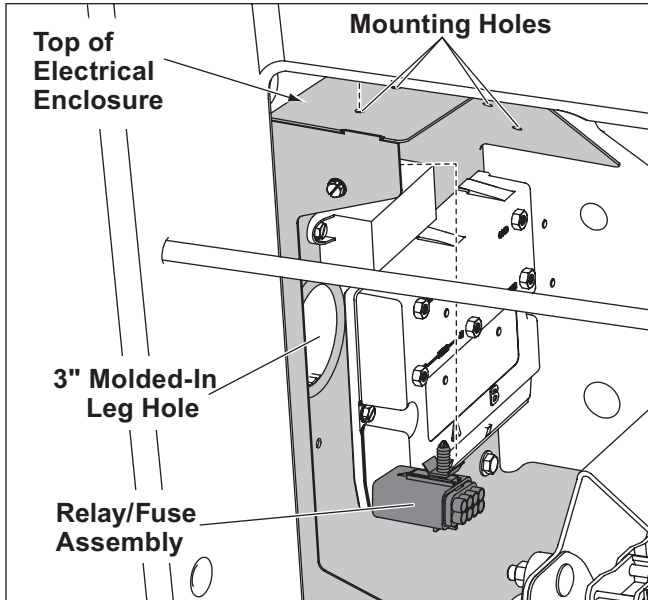


Electrical enclosure covers and relay/fuse assembly wires not shown.

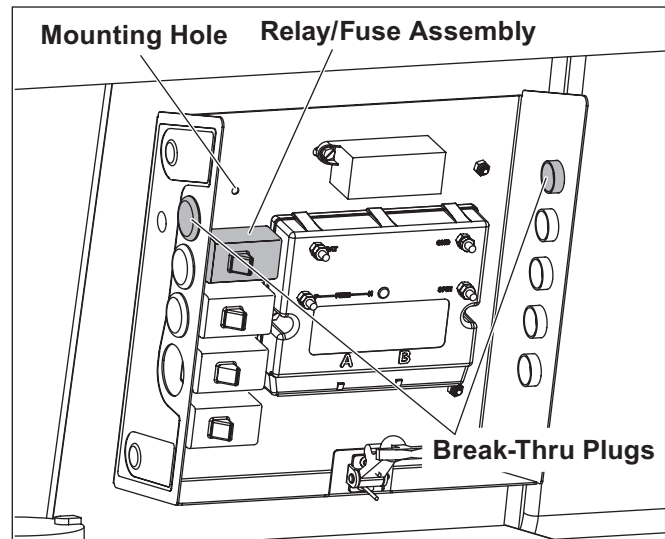
Poly Hopper Electric Spreaders with 3" Molded-In Leg Hole or Poly Chute Cover:
 Remove the chute and the electrical cover. Route the harness into the large electrical enclosure either through the 3" molded-in leg hole or along the top of the electrical enclosure and into the back side behind the cover.

Poly Hopper Electric Spreaders with Stainless Steel Chute: Cut a hole in one of the break-thru plugs and feed the harness into the enclosure. The hole should be sized to form a tight seal around the harness.

Poly Electric Spreader with 3" Molded-In Leg Holes



Poly Electric Spreaders with Stainless Steel Chute – 1.5 yd³–2.2 yd³



Poly Hopper Electric Spreaders with 3" Molded-In Leg Hole (all other models, continue to Install Harness and Relay/Fuse Assembly at the end of this document):

Passenger-Side Harness Routing:

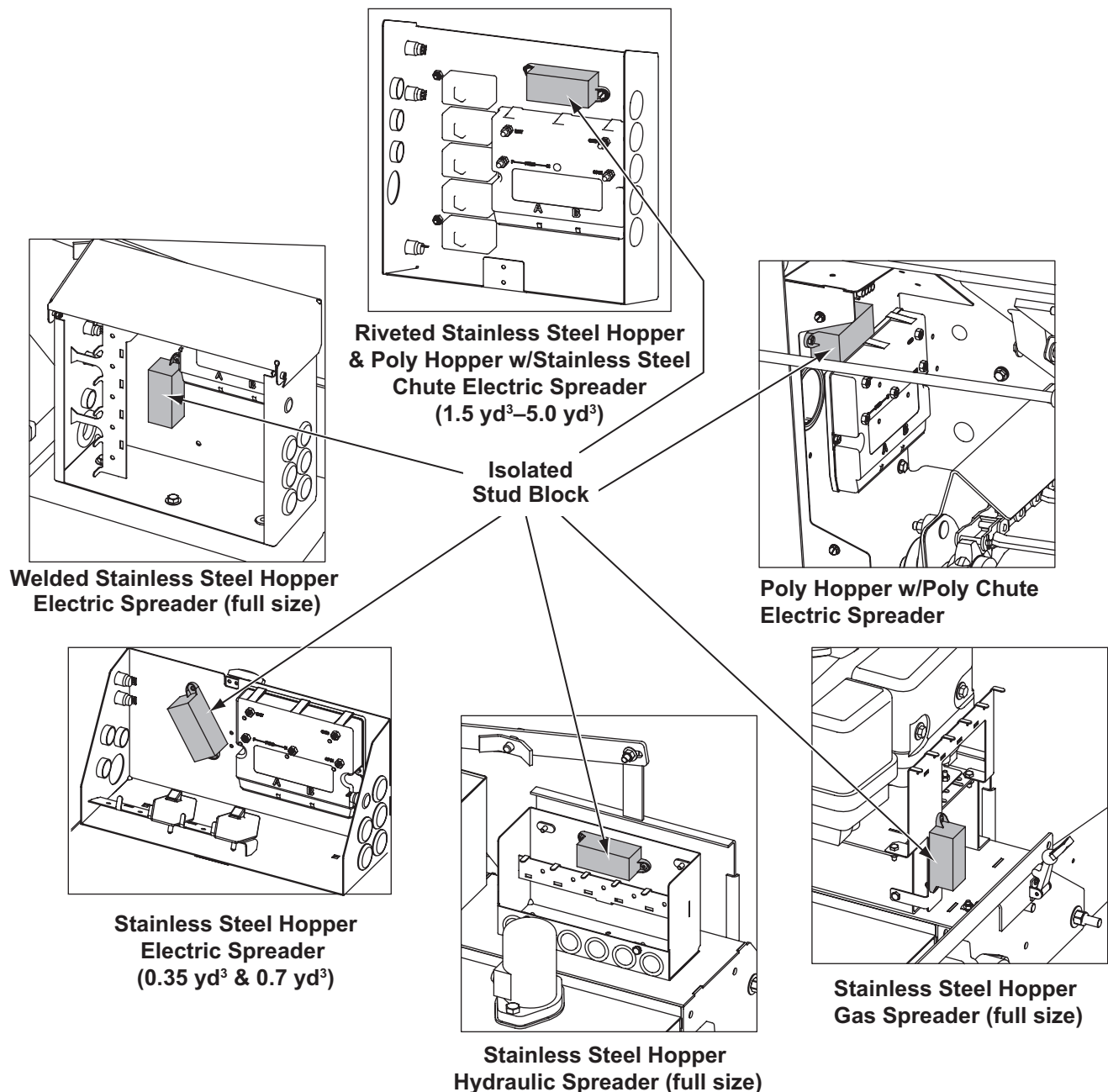
1. Feed the two-way trailer plug end of the longest harness into the drilled hole behind the passenger-side work light. Thread the plug end through the hole on the inside of the hopper rear leg (located just above the drive motor).
2. Run the harness across the back of the hopper, following the drive motor's cable assembly.
3. Route the harness along the top of the electrical enclosure and into the back side behind the cover.
4. Plug the work light connector into the work light harness. Using the cable ties as needed, secure the harness and existing motor cable.

Driver-Side Harness Routing:

1. Feed the two-way trailer plug end of the shorter harness into the drilled hole behind the driver-side work light bracket. Thread the plug end through the hole on the inside of the hopper rear leg (located just above the electrical enclosure).
2. Route the harness along the top of the electrical enclosure and into the back side behind the cover.
3. Plug the work light connector into the work light harness. Using the cable ties as needed, secure the harness to the work light bracket.
4. Install the work light using the supplied screws.

Install Harness and Relay/Fuse Assembly (all hoppers)

1. Mount the relay/fuse assembly to the relay/fuse assembly bracket or electrical enclosure by pushing the connector clip on the back of the assembly into one of the holes in the bracket/enclosure. Secure the assembly to the bracket/enclosure using one of the supplied cable ties.
2. Plug the work light harness connector into one of the matching connectors on the relay/fuse assembly harness. (The second relay/fuse harness connector is for the optional secondary work light.)
3. Remove the cover from the isolated stud block. Connect the red wire from the relay/fuse assembly to the POSITIVE (+) terminal and the black wire from the relay/fuse assembly to the NEGATIVE (-) terminal inside the isolated stud block.



4. Replace the isolated stud block cover, being careful not to pinch any wires. On spreader installations with multiple accessories, it may be necessary to notch the sides of the isolated stud block cover to accommodate all the wires.
5. **Stainless Steel Electric Spreader:** Connect the single-pin terminal on the relay/fuse assembly harness (yellow wire) to the gray wire coming from port A of the spreader module.

Gas/Hydraulic Spreader: Connect the single-pin terminal on the relay/fuse assembly harness (yellow wire) to the gray wire coming from the previously installed hopper accessory cable assembly

Poly Hopper Electric Spreader: Connect the single-pin terminal on the relay/fuse assembly harness (yellow wire) to the gray wire coming from port A of the spreader module.

Liquid Sprayer: Route the harness to the underside of the pump platform below the pump. Secure with bundling clips.

6. Plug the work light harness connector into the remaining matching connector on the relay/fuse assembly harness that powers the primary work light. (One relay/fuse harness assembly can power two work lights.)

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