

⚠ WARNING

CALIFORNIA

Proposition 65 Warning

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

Safety

- Always follow the vehicle manufacturer's recommendations relating to system installation.
- Due to the variety of equipment that you can install using the undercarriage, ensure that the gross-vehicle-weight rating (GVWR) is not exceeded at any time. You may need to weigh the vehicle and add ballast or limit the payload of the vehicle to compensate.

Installation

Installing the Undercarriage

Determine the left and right sides of the machine from the normal operating position.

1. Park the machine on a level surface, shut off the engine, wait for all moving parts to stop, engage the parking brake, and remove the key.
2. Using 4 bolts (M14), secure the front plate to the frame as shown in [Figure 1](#).

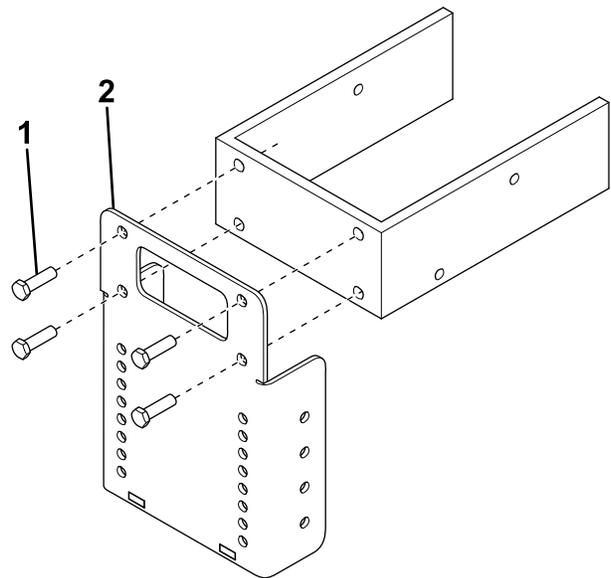


Figure 1

g215191

1. Bolt (M14)
2. Front plate

3. On the right side of the frame, remove the existing bolt in the hole indicated in [Figure 2](#).

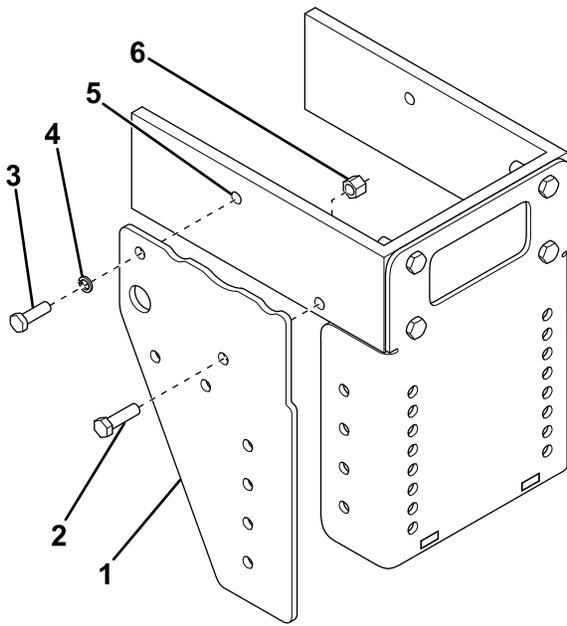


Figure 2

g215192

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|------------------------------|-----------------------------|
| 1. Right sideplate | 4. Lockwasher |
| 2. Bolt (1/2 x 1-3/4 inches) | 5. Remove the existing bolt |
| 3. Bolt (M12) | 6. Nut |

- Secure the rear of the right sideplate using a bolt (M12) and lockwasher (Figure 2).
- Secure the front of the right sideplate using a bolt (1/2 x 1-3/4 inches) and nut (Figure 2).
- Loosely secure the front of the left sideplate to the frame using a bolt (1/2 x 1-3/4 inches) and nut (Figure 3).

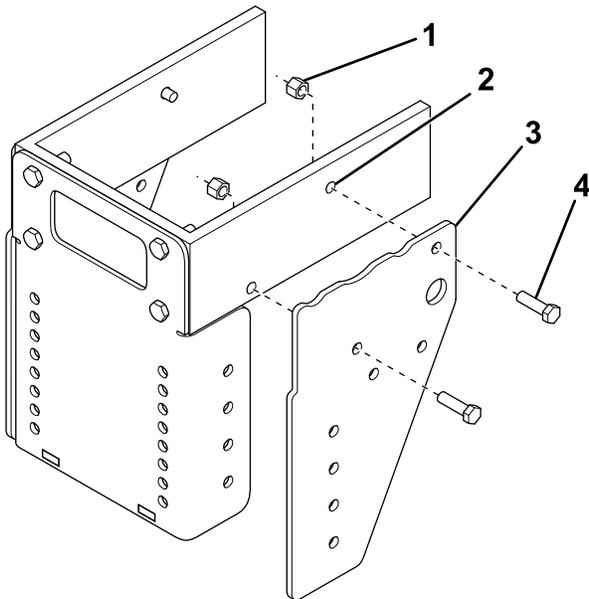


Figure 3

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|---------------|------------------------------|
| 1. Nut | 3. Left sideplate |
| 2. Drill here | 4. Bolt (1/2 x 1-3/4 inches) |

- Using the sideplate as a guide, mark the location of the rear sideplate hole on the frame (Figure 3).
- Remove the sideplate and drill the hole using a 9/16 inch drill bit.
- Secure the left sideplate using 2 bolts (1/2 x 1-3/4 inches) and nuts (Figure 3).
- Secure a side gusset to the left sideplate using 2 bolts (1/2 x 1-1/2 inches) and nuts (Figure 4).

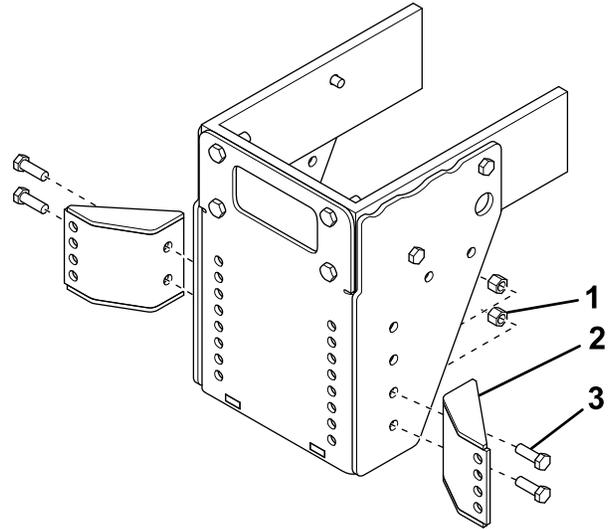


Figure 4

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|----------------|------------------------------|
| 1. Nut | 3. Bolt (1/2 x 1-1/2 inches) |
| 2. Side gusset | |

- Secure the remaining side gusset to the right sideplate using 2 bolts (1/2 x 1-1/2 inches) and nuts (Figure 4).
- Secure the center gusset to the sideplates using 4 bolts (1/2 x 1-1/2 inches) and nuts (Figure 5).

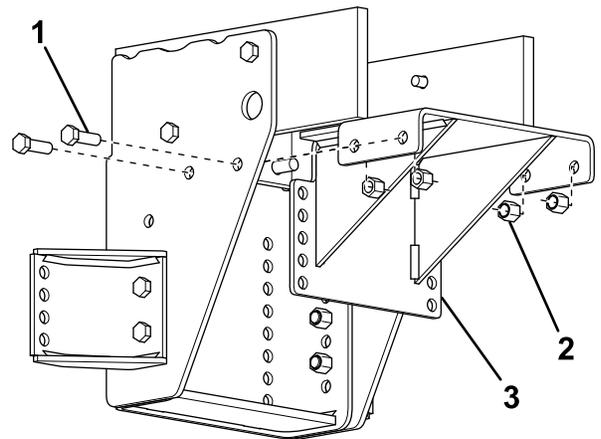


Figure 5

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|------------------------------|------------------|
| 1. Bolt (1/2 x 1-1/2 inches) | 3. Center gusset |
| 2. Nut | |

- Secure the outer holes of the pushbeam to the side gussets using 4 bolts (1/2 x 1-1/2 inches) and nuts (Figure 6).

Note: The distance from the ground to the coupler spring-pin holes on the pushbeam should be 39 cm (15-1/2 inches).

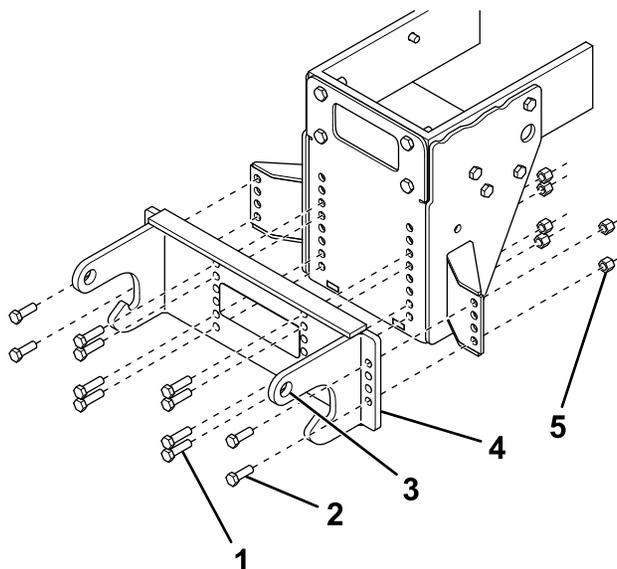


Figure 6

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|------------------------------|-------------|
| 1. Bolt (1/2 x 1-3/4 inches) | 4. Pushbeam |
| 2. Bolt (1/2 x 1-1/2 inches) | 5. Nut |
| 3. Coupler spring-pin hole | |

- Secure the inner holes of the pushbeam to the front plate using 8 bolts (1/2 x 1-3/4 inches) and nuts (Figure 6).
- Torque all of the fasteners to the following specifications:
 - 1/2 inch bolts to 76 N·m (56 ft-lb)
 - M12 bolts to 106 N·m (78 ft-lb)
 - M14 bolts to 119 N·m (88 ft-lb)

Installing the Wire Harness

⚠ DANGER

Vehicle engines contain moving parts and can become extremely hot, capable of causing severe burns and serious bodily harm.

Shut off the engine and allow it sufficient time to cool down before installing this kit.

⚠ DANGER

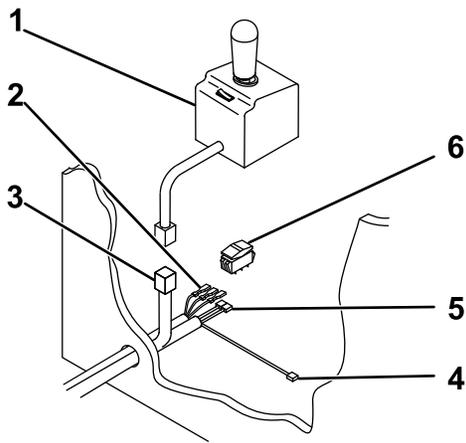
Vehicle batteries can cause dangerous electrical shocks that could lead to severe burns or death.

Disconnect your battery before installing this kit.

- Discard the long power/ground cable and the headlight toggle switch included with the control kit.
- Connect the partially stripped blue wire from the tractor light harness to the blue upfitter wire on the vehicle wire harness using the existing butt connector.
- Connect the partially stripped red wire from the tractor light harness to the red upfitter wire on the vehicle wire harness using the existing butt connector.
- Connect the black wire from the tractor light harness to the negative (-) battery terminal post.
- Ensure that the vehicle firewall is clear of obstructions.
- Drill a 3 cm (1-1/4 inches) diameter hole through the firewall on the driver side of the vehicle.

Note: The hole should be in an easily accessible area.
- Insert the split rubber-grommet into the hole.
- Pull the plow controller connector, black/red wire, 3 tractor light harness connectors, and 2 black wires into the vehicle cab through the hole in the firewall (Figure 7).

Important: Ensure that all wiring is secured in a position that avoids hot or moving parts to prevent damage to the vehicle or plow.

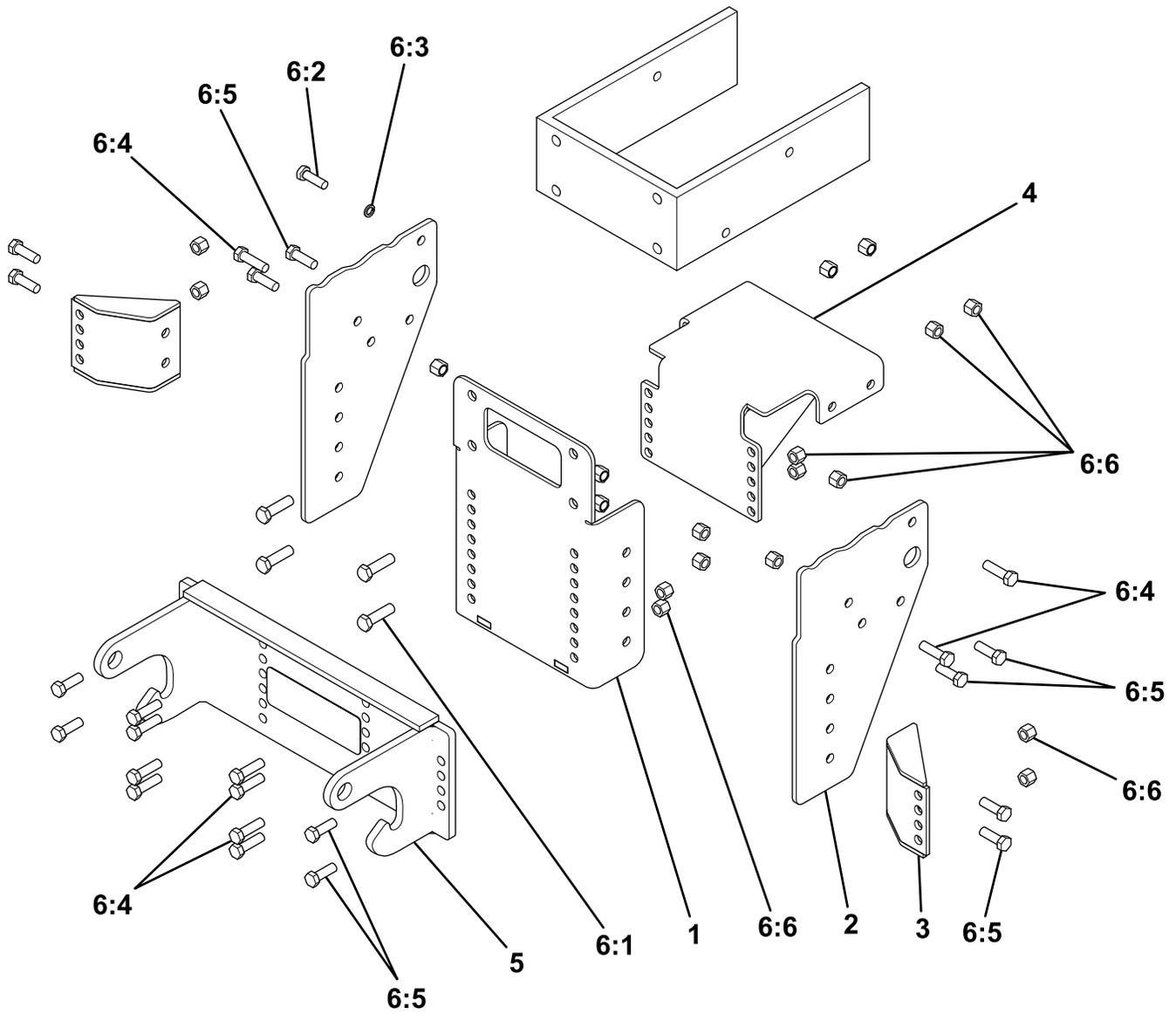


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Figure 7

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|--------------------------|-------------------|
| 1. Plow controller | 4. Black/red wire |
| 2. Tractor harness wires | 5. Black wires |
| 3. Controller connector | 6. Rocker switch |

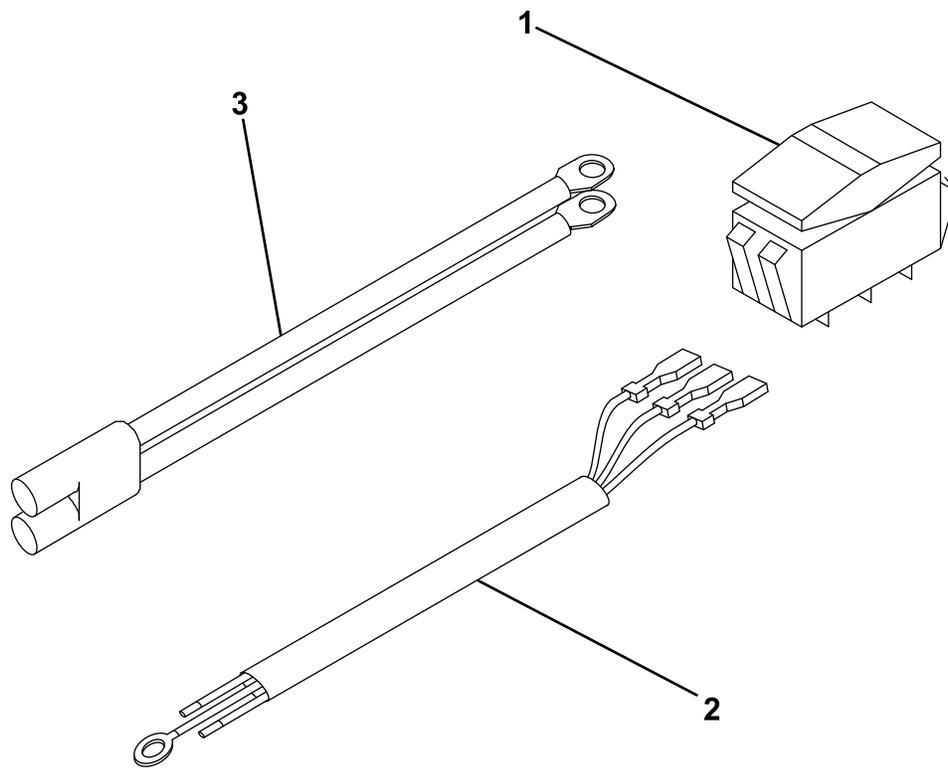
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9. Connect the blue tractor harness wire to the bottom post on the rocker switch.
 10. Connect the black tractor harness wire to the center post on the rocker switch.
 11. Connect the red tractor harness wire to the top post on the rocker switch.
 12. Determine where you will mount the rocker switch and cut a 37 mm by 15 mm (1.45 inches by 0.6 inches) hole in the dash.
 13. Mount the rocker switch through the hole in the dash.
 14. Continue the wiring installation from step 16 of the upfitter wiring installation manual.



Parts

g215190

Ref.	Part Number	Qty.	Description	Ref.	Part Number	Qty.	Description
1	PBA19967	1	FRONT PLATE ASSEMBLY	6:3	HDW05585	1	12M YZN LOCK WASHER
2	PBA19979	2	PUSHBEAM SIDE PLATE	6:4	HDW01802	11	1/2"-13 X 1-3/4", YZN, HEX HEAD BOLT
3	PBA19965	2	PUSHBEAM GUSSET WELDMENT	6:5	HDW01728	12	1/2"-13 X 1-1/2, GR5, YZN HEX HEAD BOLT
4	PBA19981	1	GUSSET WELDMENT	6:6	HDW01748	23	1/2"-13, YZN NYLON LOCK NUT
5	PBA19989	1	PUSHBEAM				
6	HDW19984	1	HARDWARE KIT				
6:1	HDW19983	4	M14 X 1.5 X 50, GR8.8, HEX HEAD BOLT				
6:2	HDW19990	1	M12 X 1.25, GR10.9, HEX HEAD BLADE BOLT				



Parts

g215929

Ref.	Part Number	Qty.	Description
1	MSC11183	1	SWITCH, ROCKER, HEADLIGHT, HI-OFF-LOW
2	MSC11182	1	HARNESS-LIGHT, TRACTOR
3	HYD11132	1	POWER/GROUND CABLE, VEHICLE SIDE, 36

Notes:

BOSS
S N O W P L O W