

Light Kit

BM25072



JOHN DEERE

INSTALLATION INSTRUCTIONS

Light Kit

M171135 30MAY13 (ENGLISH)

M-Gator A1™ Utility Vehicle

John Deere Horicon Works
M171135 (30MAY13)

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Moline, Illinois

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M171135-19-30MAY13

Parts in Kit

Grease

NOTE: A suitable dielectric grease must be applied when installing this kit. You can purchase MPG2 grease from your local John Deere dealer.

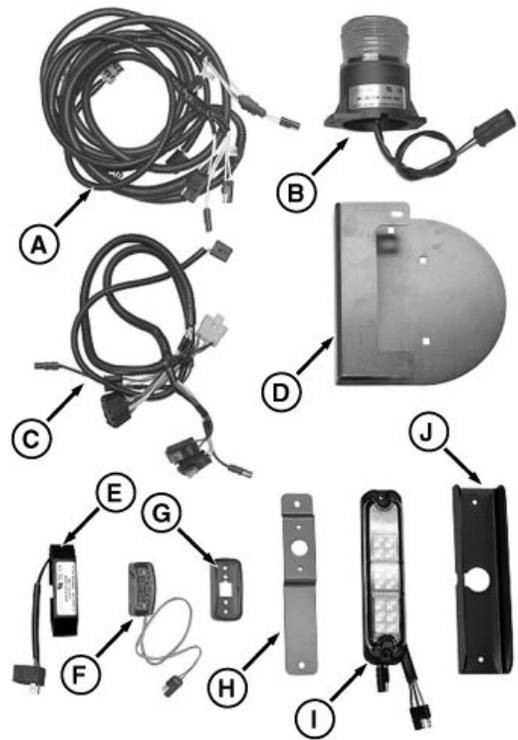
Harnesses and Light Components

Do not assemble turn signal lights to bezels until specified in instructions.

Quantity	Description
1	Harness, Rear Light (A)
1	Beacon Light (B)
1	Harness, Front Light (C)
1	Bracket, Beacon Light (D)
1	Flasher Module (E)
1	Light, Turn Signal / Front Marker (Amber) (F)
1	Bezel (G)
1	Bracket, Turn Signal Light (H)
1	Light, Tail (red) (I)
2	Bracket, Tail Light (J)

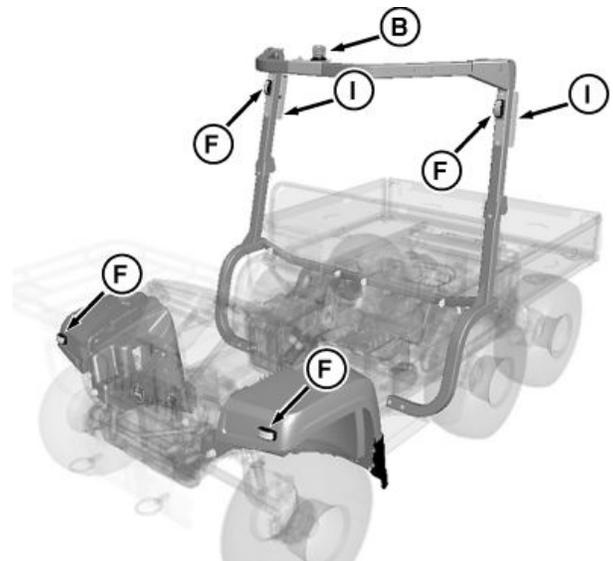
NOTE: Retain these installation instructions with the machine operator's manual.

- A—Harness, Rear Light
- B—Beacon Light
- C—Harness, Front Light
- D—Bracket, Beacon Light
- E—Flasher Module
- F—Light, Turn Signal / Front Marker (Amber)
- G—Bezel
- H—Bracket, Turn Signal Light
- I—Light, Tail (Red)
- J—Bracket, Tail Light



MXT007337—UN—28MAY13

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Light locations shown

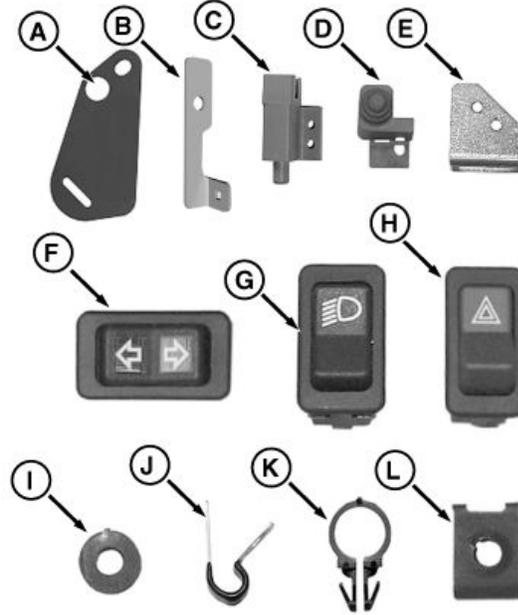
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MXT007338—UN—28MAY13

Switch Components and Hardware

Quantity	Description
1	Bracket, Reverse Light Switch (A)
1	Striker Plate (B)
2	Switch, Plunger (C)
2	Boot, Switch (D)
1	Bracket, Brake Light Switch (E)
1	Switch, Turn Signal (F)
1	Switch, Head/Marker Light (G)
1	Switch, Hazard Light (H)
4	Spacer, Plastic (I)
2	P-Clamp (J)
2	Retainer, Quick Clip (K)
2	Clip-Nut, M5 (L)
8	Screw, Phillips Head, M4x12
6	Bolt, Hex Head, M5x20
4	Bolt, Hex Socket Head, M5x85
1	Bolt, Hex Head, M6x40
2	Bolt, Carriage, M6x16
2	Bolt, Carriage, M6x60
8	Locknut (with Star Washer), M4
4	Locknut, M5
4	Locknut, M5
5	Locknut, M6
1	Washer, M8.4
1	Washer, M6.6
1	Bolt, Carriage, M6x25
1	Locknut, M6
22	Tie Strap



- A—Bracket, Reverse Light Switch
- B—Striker Plate
- C—Switch, Plunger
- D—Boot, Switch
- E—Bracket, Brake Light Switch
- F—Switch, Turn Signal
- G—Switch, Head/Marker Light
- H—Switch, Hazard Light
- I—Spacer, Plastic
- J—P-Clamp
- K—Retainer, Quick Clip
- L—Clip-Nut, M5

MXT007332—JUN—30MAY13

NOTE: Retain these installation instructions with the machine operator's manual.

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Parking Safely

1. Stop vehicle on a level surface, not on a slope.
2. Lock park brake.
3. Stop engine.
4. Remove key.
5. Before you leave the operator's seat, wait for engine and all moving parts to stop.
6. Disconnect the negative battery cable or remove the spark plug wire (for gasoline engines) before servicing the machine.

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Prepare Machine

NOTE: For best results and ease of installation, if a cargo box lift kit will also be installed on the machine, this kit should be installed first.

Raise cargo box and engage support as required.

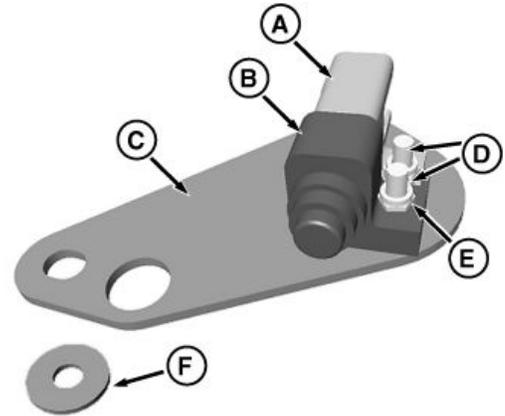
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Install Reverse Light Switch

1. Assemble a plunger switch (A) and switch boot (B) to slotted hole in reverse light switch bracket (C), positioned as shown. Secure with two hex head bolts (D), installed from the bottom, and locknuts (E). The switch should be positioned to the front of the slotted hole. The flat washer (F) will later be installed between bracket (C) and shifter shaft clamp.

A—Switch
B—Boot
C—Bracket

D—Bolt, M5x20
E—Locknut, M5
F—Washer, M8.4



Front view of switch and bracket.

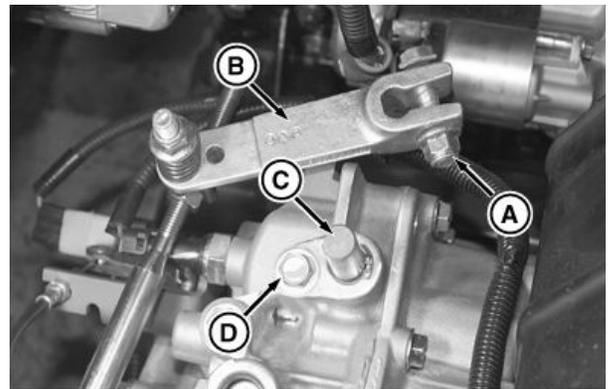
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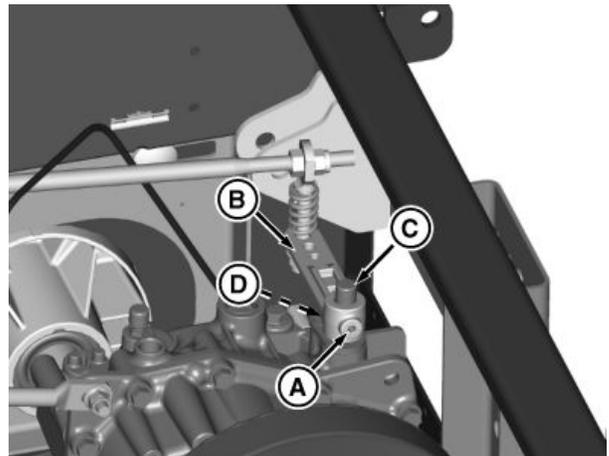
2. Perform the following steps based on the SN of the machine:
 - a. **SN -090000** Remove and retain bolt and retaining nut (A), and shift lever (B) from shifter shaft (C).
 - b. **SN 090001-** loosen set screw (A) (not shown) and remove shift lever (B) from shifter shaft (C).
3. Remove and retain transmission bolt (D), that secures shifter shaft clamp.

A—Set Screw (Not Shown)
B—Shift Lever

C—Shifter Shaft
D—Bolt



(S/N -090000) (Shown)



(S/N 090001-) (Shown)

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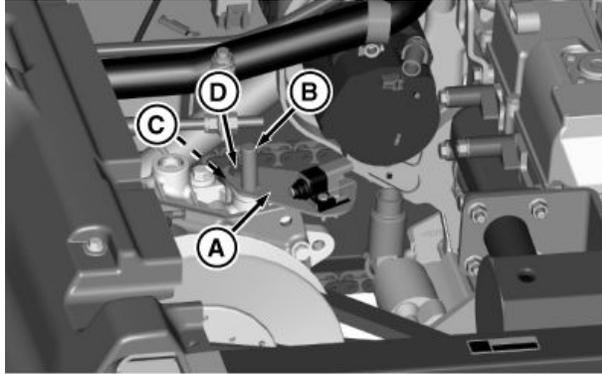
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MXT007490 —UN—11JUN13

4. Position reverse light switch bracket (A) over shifter shaft (B). Insert flat washer (C) between light switch bracket and shifter shaft clamp at mounting hole, and secure with transmission bolt (D), removed earlier. Pivot the light switch bracket forward against the shifter shaft, then back off slightly for clearance. Tighten transmission bolt to 28 N•m (20 lb-ft).
5. Remove retaining nut and bolt from disconnected shift lever. Install the striker plate onto the retaining bolt, then assemble the bolt and nut to the shift lever in their original position. Do not tighten.

A—Switch Bracket
 B—Shifter Shaft
 C—Washer, M8.4
 D—Bolt

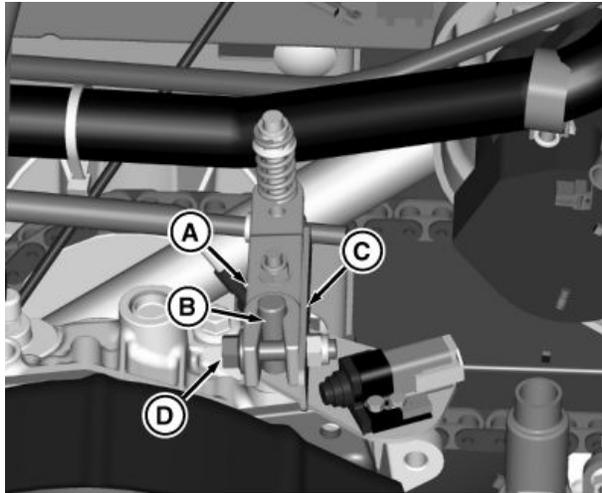


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6. Perform the following steps based on the serial number of machine shown under graphic:
 - a. **SN -090000** Install shift lever (A) onto shifter shaft (B), align hole on striker plate (C) with hole on shift lever. Reuse hardware previously removed (D), and tighten.

A—Shift Lever
 B—Shifter Shaft
 C—Striker Plate
 D—Retaining Bolt



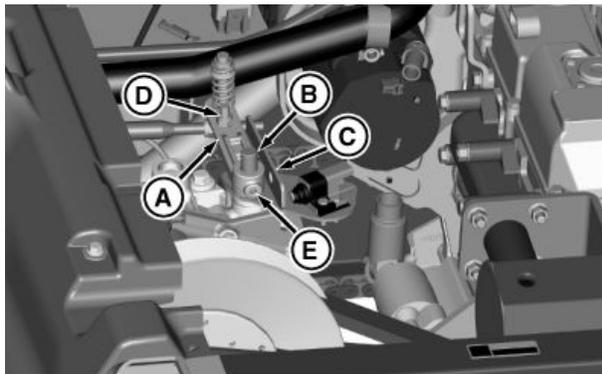
(S/N -090000) (Shown)

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- b. **SN 090001-** Install shift lever (A) onto shifter shaft (B), position striker plate (C) for maximum engagement with switch plunger, and tighten carriage bolt, washer and locknut (D). Tighten set screw (E) (not shown).

A—Shift Lever
 B—Shifter Shaft
 C—Striker Plate
 D—M6 Carriage Bolt, M6 Washer, M6 Locknut
 E—Set Screw (Not Shown)



(S/N 090001-) (Shown)

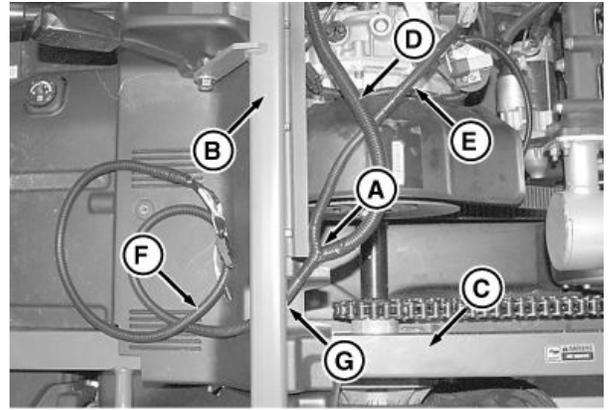
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Install Rear Light Harness

NOTE: The rear light harness is the longer of the two harnesses in the kit.

1. Position the rear light harness on the machine:
 - Spread out the rear light harness with the junction (A) behind the OPS lower crossmember (B) by the left side frame rail (C).
 - Lay out the longest wiring bundle (D) loosely behind the crossmember to the right side of the machine.
 - Route the shorter wiring bundle with two plug connectors (E) toward the reverse light switch.
 - Route the remaining wiring bundle with three plug connectors (F) to the front side of the lower crossmember (B) through the opening (G) between the seat panel and crossmember.



A—Junction
 B—Crossmember
 C—Frame Rail
 D—Wiring Harness

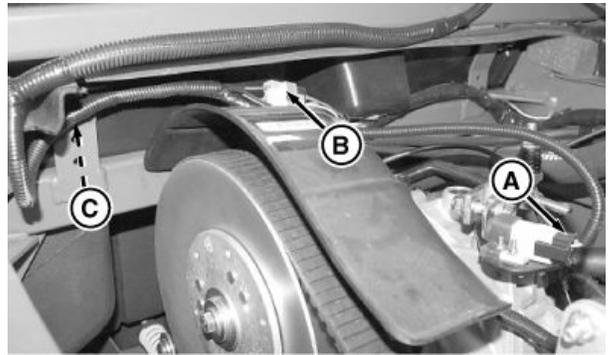
E—Wiring Harness (with two plug connectors)
 F—Wiring Harness (with three plug connectors)
 G—Opening

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MXT007340—UN—28MAY13

2. Plug connector (A) into reverse light switch, connector (B) into main harness, and push rosebud connector on rear light harness into existing hole (C) in frame bracket.
3. Remove and discard two hole plugs in each OPS upright. One plug is near the top of the upright, at the rear. The remaining plug is near the bottom of the upright, at the inside.

A—Reverse Light Switch Connector
 B—Main Harness Connector
 C—Hole



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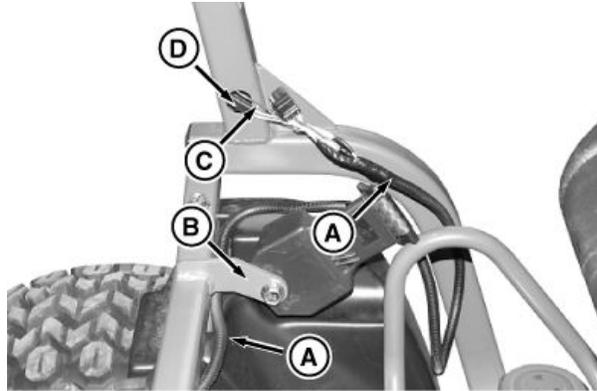
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MXT007341—UN—28MAY13

4. Route harness bundle with two connectors (A) under left seat belt bracket (B) and over to left OPS upright.
5. Push fish tape (or equivalent) (C) of suitable length through the upper OPS hole, where the plug was earlier removed, and down through the lower hole (D) at the inside of the OPS upright.

⚠ CAUTION: Avoid injury! Openings in OPS uprights may contain sharp edges. Use extra care when routing wires in these areas.

NOTE: Use care pulling the harness bundle up through the OPS upright. Additional help may be needed when the connectors are pulled past the pivot bracket.



MXT007342—UN—28MAY13

A—Connectors
B—Seat Belt Bracket
C—Fish Tape
D—Lower Hole

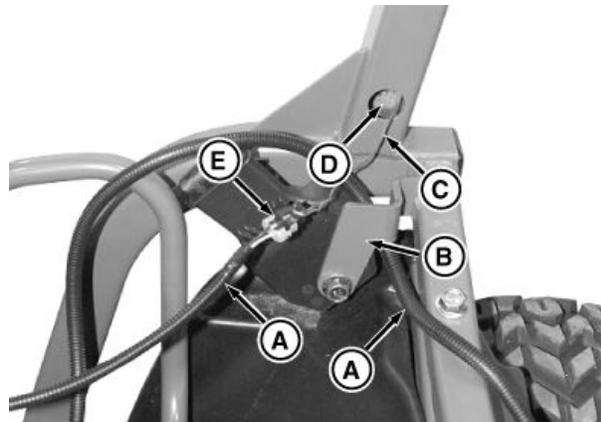
6. Tape the harness and larger plug connector to the wire, then pull the wire with harness up through the left OPS upright until it exits the upper hole. Remove tape and wire from harness, and temporarily secure harness to prevent it from falling back through the hole.

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7. Route the longest harness bundle (A) along the rear of the lower OPS crossmember to the right side of the machine. Then, over the crossmember (final position will be between the two bolt heads behind the seat belt bracket), under the right side seat belt bracket (B) to the right OPS upright.
8. Push the fish tape (C) down through the upper hole in the left OPS upright, then down through the lower hole (D) at the inside of the upright. Connect the wire to the beacon light plug connector (E) at the end of the harness bundle.

⚠ CAUTION: Avoid injury! Openings in OPS uprights may contain sharp edges. Use extra care when routing wires in these areas.

NOTE: Use care pulling the harness bundle up through the OPS upright. Additional help may be needed when the connectors are pulled past the pivot bracket.



MXT007343—UN—28MAY13

A—Longest Wiring Harness
B—Seat Belt Bracket
C—Fish Tape
D—Lower Hole
E—Connector

9. Pull the single connector (E) carefully partway up through the right upright. Three more connectors are farther down on the bundle.

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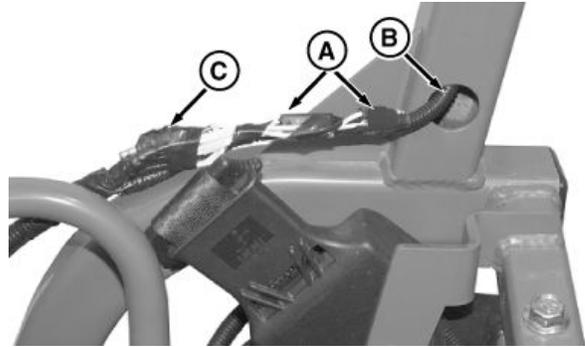
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10. Tape the two smaller connectors (A) forward to the main bundle (B). Tape the remaining, larger connector (C), rearward to the main bundle, as shown.

11. Pull the wires carefully through the upright, taking special care at the pivot bracket, until all the connectors exit the upper hole in the upright. Remove tape and fish tape.

A—Small Connectors
B—Main Bundle

C—Large Connector



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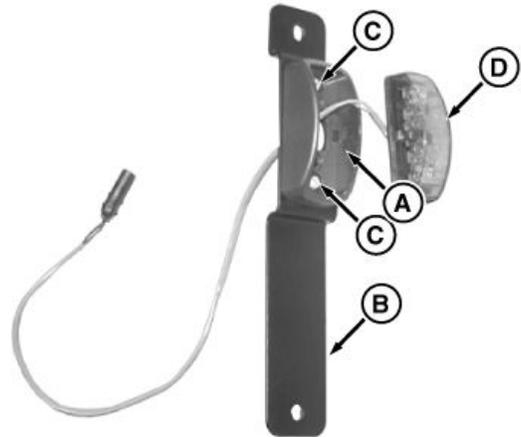
Assemble and Install Rear Light Components

NOTE: Do not assemble turn signal lights to bezels until specified in instructions. Bezels must be mounted before lights are snapped in place.

1. Position two bezels (A) against the outward bend at the top of the turn signal brackets (B), as shown. Secure each bezel with two screws (C), installed from the bezel side, and M4 locknuts with star washers at the bracket side. Do not over-tighten hardware.
2. Install turn signal lights (D) into the two bezels, with the plug connectors and wiring leads through the center holes. Push firmly to snap the lights in place.

A—Bezel
B—Bracket

C—Screw, M4x12
D—Turn Signal Lights



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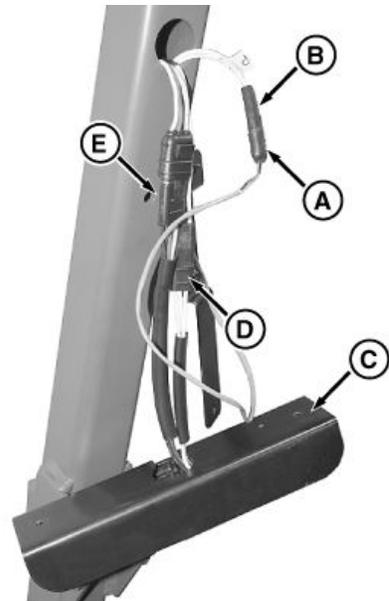
3. Plug the connector (A), from one of the assembled turn signal lights, into the two-wire connector (B) at the left OPS upright that has a tag labelled "AMBER TURN". Temporarily support the light, or have a helper hold it.

NOTE: The tail light is properly positioned in the bracket if the red reflector is on top when the center slot and two smaller holes in the bracket are to the inside of the machine.

4. Insert a tail light into a tail light bracket (C), with the wiring leads exiting the center hole in the bracket. Plug the two tail light connectors, (D) and (E), into the remaining two connectors at the OPS.

A—Connector
B—Two Wire Connector
C—Bracket

D—Connector
E—Connector

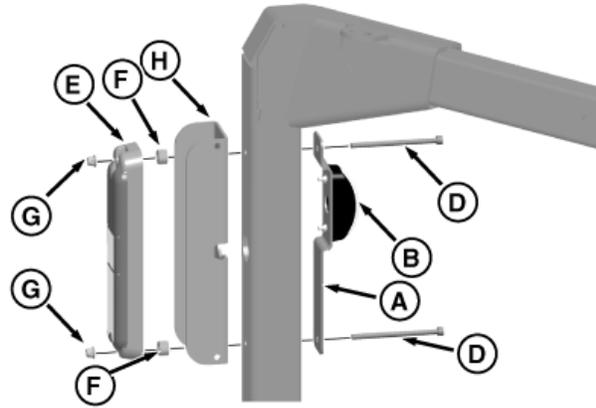


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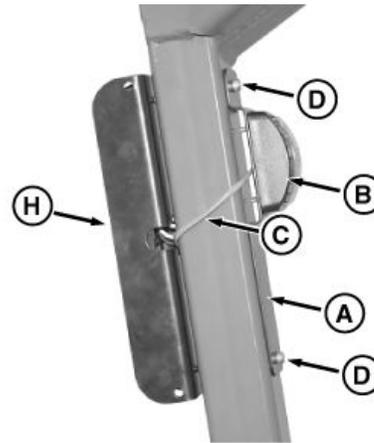
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5. Place the assembled turn signal light/bracket (A) at the front of the OPS upright, with the light (B) to the top, and the wiring lead (C) at the inside of the upright. Install a socket head bolt (D) through the upper mounting hole in the light bracket and upright, from the front, to properly position light and bracket.
6. Have an assistant hold the light and bracket in place, then push the plug connector and wiring lead (C) upward into the upright until the wiring lead is snug against the inside of the upright.
7. Push the plug connector and wiring leads for the tail light downward into the upright, then place the tail light (E) and bracket (H) against the back of the upright, with the hex socket head bolt (D) through the upper mounting hole. The slotted hole and two smaller holes in the bracket should be to the inside.
8. Pull the top of the tail light backward to clear the bolt, install a plastic spacer (F) over the bolt, between the light and bracket. Move the light back against the spacer, and secure loosely with an locknut (G).
9. Install a second hex socket head bolt (D) through the bottom hole in the brackets and upright, from the front.
10. Pull the bottom of the tail light backward to clear the bolt, and repeat the procedure to install the second plastic spacer between the light and bracket. Secure loosely with a locknut (G).
11. Check wiring at inside of OPS upright to make sure that no wiring is pinched under the bracket, and that excess wiring is pushed into the upright, then snug up hardware. Do not over-tighten.



Component Reference



- | | |
|------------------------------|--------------|
| A—Light Bracket | E—tail light |
| B—Light | F—Spacer |
| C—Wiring Lead | G—M5 locknut |
| D—M5x85 hex socket head bolt | H—Bracket |

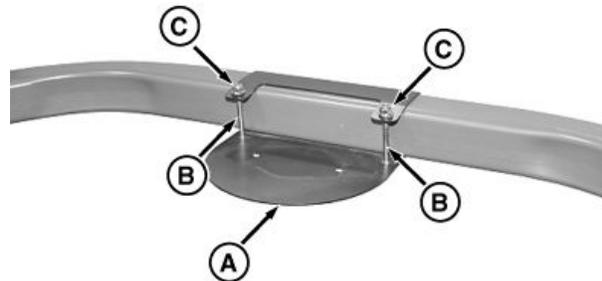
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MXT007348—UN—30MAY13

12. Assemble beacon light bracket (A) to upper OPS crossbar, with light platform below crossbar and facing the rear. Center bracket on crossbar, and secure with carriage bolts (B), installed from below, and locknuts (C). Tighten nuts only until nylon insert engages. Upper tabs on mounting bracket will deflect during tightening procedure.

- | | |
|------------------------|---------------|
| A—Light Bracket | C—Locknut, M6 |
| B—Carriage Bolt, M6x60 | |

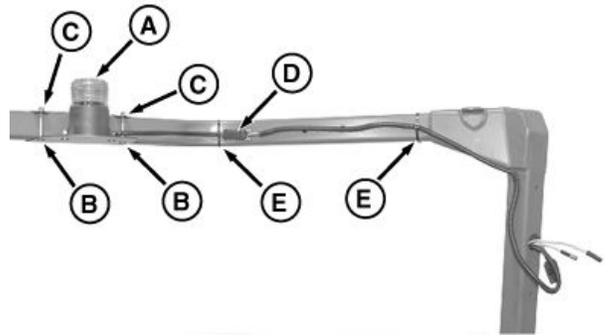


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MXT007349—UN—28MAY13

13. Install beacon light (A) onto bracket. The notch at the base of the light should be facing the front, and the wiring lead should be positioned in the notch to avoid pinching when the light is secured. Secure with carriage bolts (B), installed from the bottom, and locknuts (C).
14. Plug connector (D) from the beacon light into the beacon light connector from the right side OPS wiring bundle, and secure harness to OPS crossbar with tie straps (E).
15. Install turn signal and tail lights at right side OPS upright, repeating procedure from left side installation, and making sure that brackets and wiring are correctly positioned.



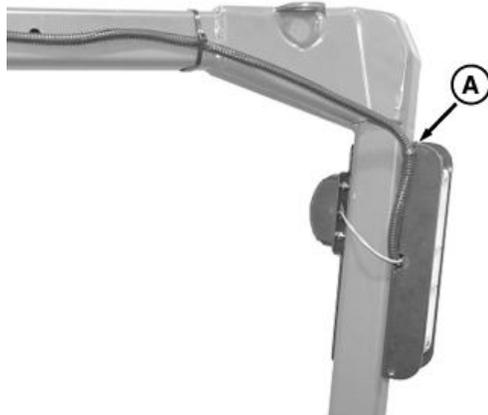
A—Beacon Light
 B—Carriage Bolt, M6x16
 C—Locknut, M6
 D—Connector
 E—Tie Straps

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MIXT007350 —UN—28MAY13

16. Assemble quick clip retainer (A) around beacon light wiring and install into top small hole at inside of tail light bracket.

A—Quick Clip Retainer



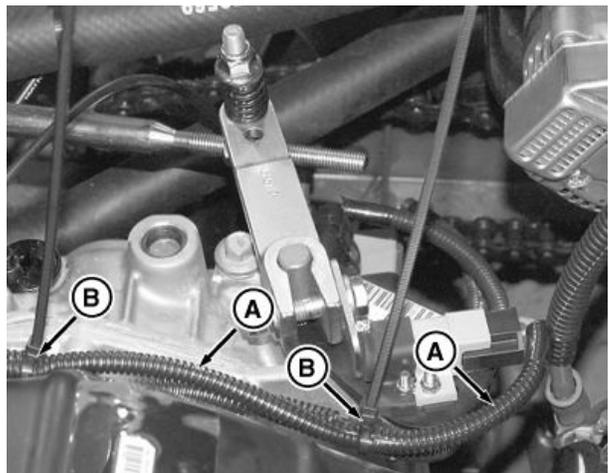
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MIXT007351 —UN—28MAY13

17. Secure rear harness reverse light wiring (A) to main harness wiring bundle for neutral and difflock switches in engine compartment with two tie straps (B).

NOTE: Harness should be taut against lower OPS crossmember and seat panel, and excess wiring at each side should be pushed up into OPS uprights before securing, to provide slack when OPS upper frame is hinged rearward.

A—Reverse Light Wiring Harness
 B—Tie Strap



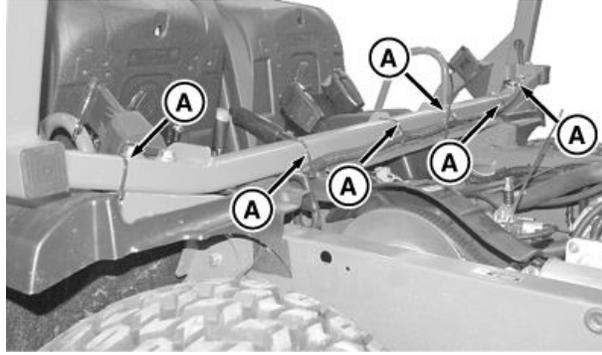
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MIXT007352 —UN—28MAY13

18. Secure rear light harness to lower OPS crossmember with six tie straps (A):

- Two tie straps at left side where the left and right side bundles split, and in front of crossmember before bundle enters left OPS upright.
- Three tie straps where the bundle goes to the right side of the machine, with one of the tie straps close to the right side OPS mount. (When the bundle goes over the top of the crossmember, it should be taut, and between the two bolt heads for the right side OPS bracket.)
- One tie strap before the bundle enters the right side OPS upright.



A—Tie Straps

MXT007353 —UN—28MAY13

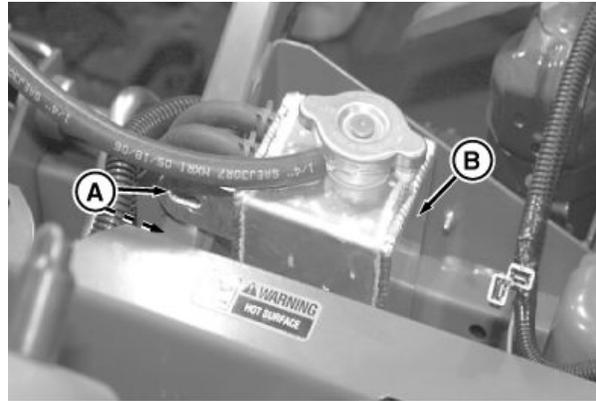
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Install Front Light Harness and Switches

1. Remove and retain M6 hardware at two mounting tabs (A) that secure the de-aeration tank (B) at the front of the machine.

A—Mounting Tabs

B—De-aeration Tank

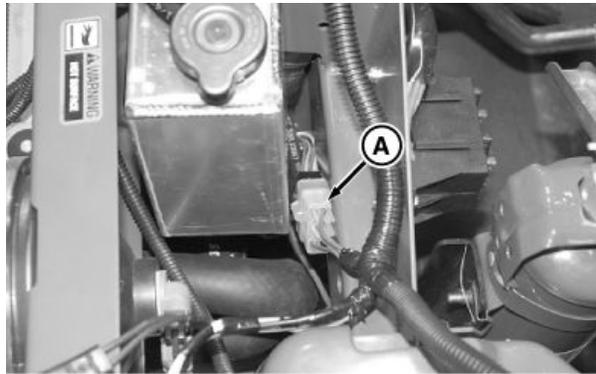


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2. Tilt de-aeration tank forward, and plug the six-cavity connector (A) from the front light harness into a mating connector located under the de-aeration tank. Replace tank to its original position and secure with M6 hardware, removed earlier.

A—Connector



MXT007355 —UN—28MAY13

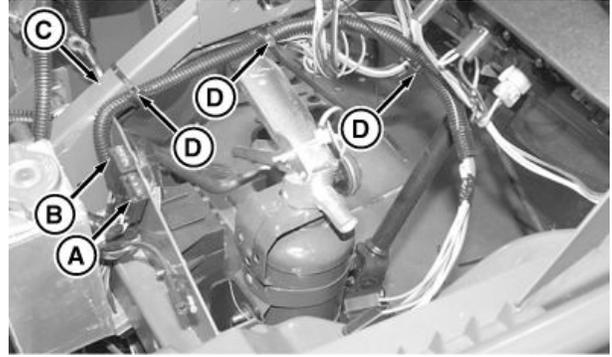
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- Clip the two fuse holders, (A) and (B), onto the frame brace behind the de-aeration tank, then route the front light harness bundle with the switch connectors over to the left center frame brace (C), and back to the instrument panel. Secure to the frame brace and main harness with three tie straps (D).

A—Fuse Holder
B—Fuse Holder

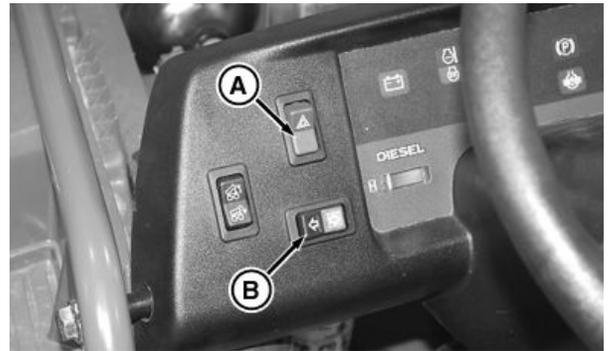
C—Brace
D—Tie Straps



MIXT007356—UN—28MAY13

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- Remove plastic plugs and install hazard (A) and turn signal switches (B) in instrument panel at left side of steering wheel. Turn signal switch should be installed with the three terminals at the bottom, and the single terminal at the top.
- Remove existing head lamp switch, and replace with new switch provided with kit. Old switch was two-position, new switch is three-position:
 - Up - Headlights, tail lights, front marker lights, beacon light will be on. Turn signals, hazard lights, reverse lights will be enabled.
 - Middle - Tail lights, front marker lights, beacon light will be on. Turn signals, hazard lights, reverse lights will be enabled.
 - Down - All off. (Blackout lights still function.)
- Connect switch leads to switches. Three wire connector to hazard light switch, four wire connector to turn signal switch.



A—Hazard Switch

B—Turn Signal Switch

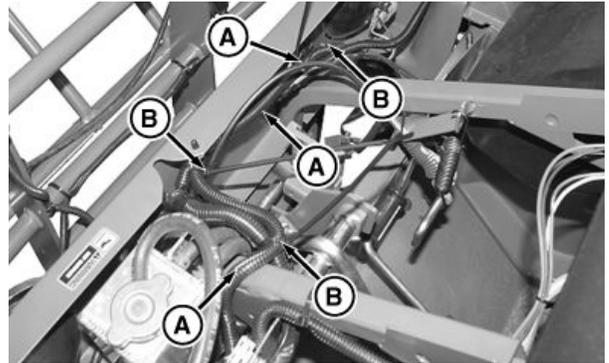
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- Route remainder of harness (A) to right side of machine along with main harness, and secure with three tie straps (B). Maintain safe clearance between harness and brake linkage.

A—Wiring Harness

B—Tie Straps



MIXT007358—UN—28MAY13

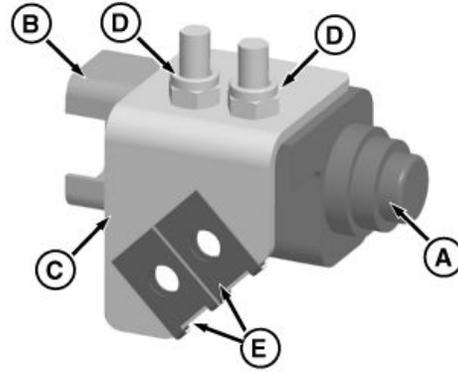
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Install Brake Light Switch and Flasher Module

1. Place switch boot (A) on remaining plunger switch (B), if not already installed.
2. Position switch and boot onto bracket (C), and secure with two M5x20 hex head bolts and locknuts (D). Tighten locknuts.
3. Install two clip nuts (E) onto holes in brake switch bracket (C). The flat side of the nuts should be to the outside of the bracket.

A—Boot
B—Switch
C—Bracket

D—locknuts, M5
E—Clip Nut



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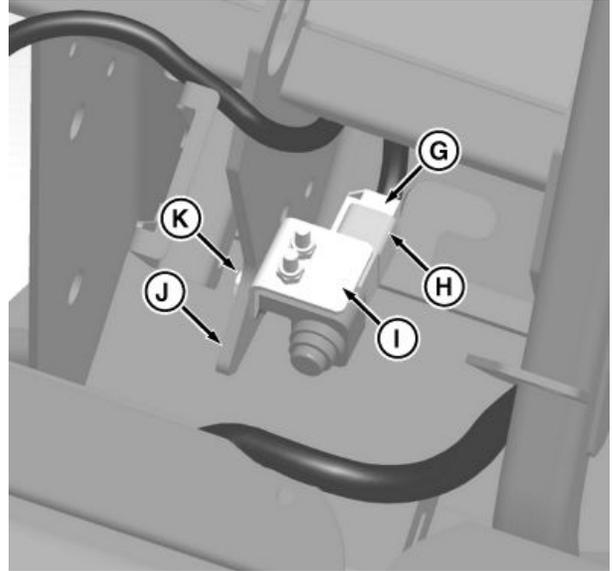
4. Locate the brake pedal spring (A) under the instrument panel. Disconnect the spring from drilled pin (E), to release tension on brake pedal rod (C).
5. Remove cotter pin (D), washer, and drilled pin (E), removing brake cable end (B) from brake pedal rod.
6. Remove radiator overflow bottle from mounting bracket (F) to gain access to frame bracket. (Pull upward to release.)
7. Plug front wiring harness brake light switch connector (G) into brake light switch (H).

NOTE: It is easier to connect brake light switch to wiring harness connector before brake light switch mounting bracket is installed onto machine. Do not tighten mounting hardware until after connecting switch to wiring harness.

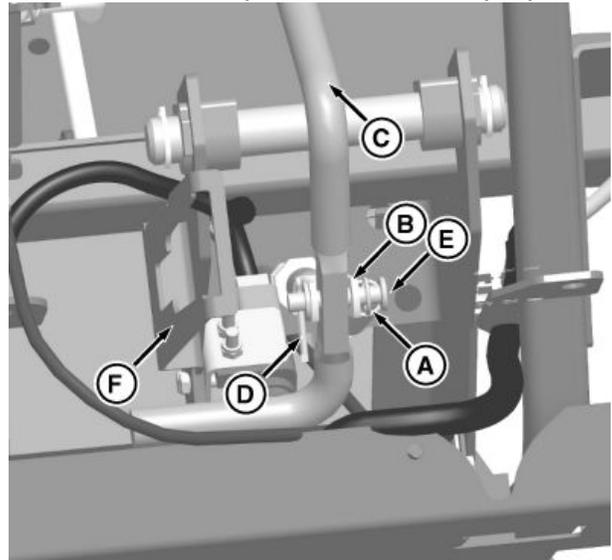
8. Pull up on front side of brake pedal rod to gain access to area, and position brake switch bracket assembly at an approximate 40° upward angle, as shown, to align clip nuts in bracket (I) with lower two holes in frame bracket (J). Secure with two bolts (K), and tighten until snug. Do not over-tighten.
9. Secure brake cable end (B) onto brake pedal rod with pin (E), washer and cotter pin (D).
10. Install the brake pedal spring (A) back onto pin (E).
11. Press and release brake pedal several times to ensure brake light switch opens and closes with brake pedal motion.

A—Pedal Spring
 B—Cable End
 C—Pedal Rod
 D—Cotter Pin
 E—Drilled Pin
 F—Mounting Bracket

G—Switch Connector
 H—Brake Light Switch
 I—Bracket
 J—Frame Bracket
 K—Bolt, M5x20



Brake rod assembly shown removed for clarity only.



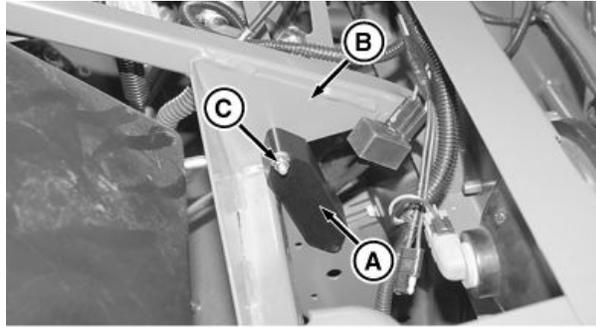
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12. Install flasher module (A) at outside of right center frame brace (B), in lower of two existing holes. Secure with an M6x40 hex head bolt, installed from the frame side, and a locknut (C) on the flasher side. Let the flasher module swing down and rest against the frame and tighten hardware.
13. Plug the flasher module connector into a mating connector in the front light harness.
14. Install overflow bottle, removed earlier, back into bracket.



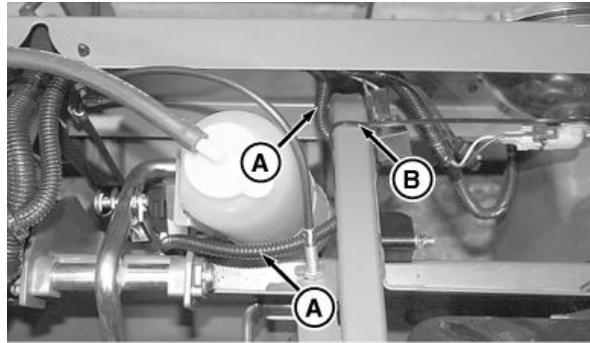
A—Flasher Module **C—Locknut, M6**
B—Frame Brace

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15. Route brake light switch wiring lead (A) around rear of overflow bottle, as shown. Pull wiring lead taut, and secure to right center frame brace with tie strap (B). Maintain safe clearance between harness and brake linkage.

A—Wiring Lead **B—Tie Strap**



Overhead View From Rear

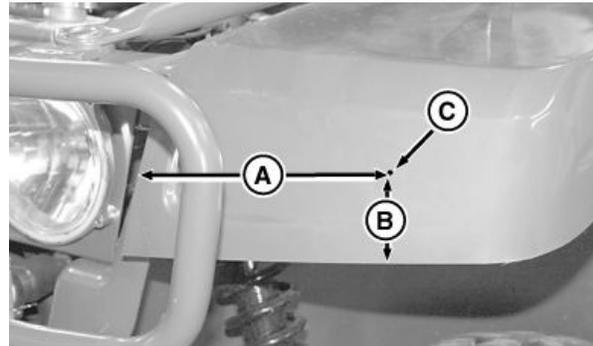
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Install Front Light Components

NOTE: Do not assemble front marker lights to bezels until specified in instructions. Bezels must be mounted before lights are snapped in place.

1. Take a measurement (A), 178 mm out from the inside edge of the left fender (where it meets the hood), and mark a pencil line on the fender.
2. Take a measurement (B), 60 mm up from the bottom edge of the left fender, and mark a pencil line on the fender where this measurement intersects the (A) measurement.
3. Drill a hole (C) through the fender at the intersection of lines (A) and (B). Deburr back side of hole.



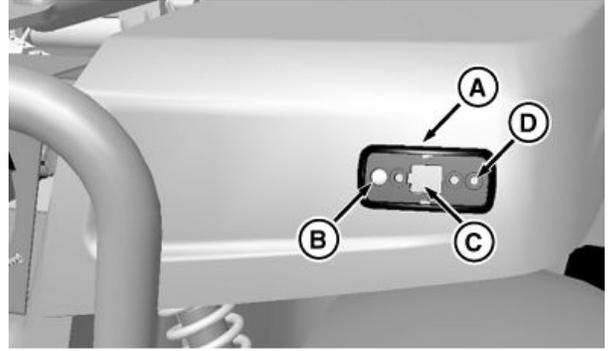
A—Measurement From Inside **C—5 MM (3/16 inch) Hole**
B—Measurement From Bottom

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4. Position a bezel (A) on the fender, with one of the two outer mounting holes over the hole just drilled in the fender. Install a screw (B), from the front, through the bezel and fender. Secure loosely at the back with an M4 locknut with star washer.
5. Pivot the bezel so that the row of mounting holes are level horizontally, then use the bezel as a template and mark the fender at the center of the middle rectangular hole (C), and the other outer small mounting hole (D).
6. Drill a 19 mm (3/4 in.) hole at (C), and a 5 mm (3/16 in.) hole at (D). Deburr back side of holes as necessary.
7. Secure the bezel to the fender at (D) with a screw (B) and M4 locknut with star washer. Tighten all bezel hardware.
8. Install a front marker light into the bezel, with the wiring lead through fender at hole (C). Push firmly to snap light in place.



A—Bezel
B—Screw, M4x12

C—Rectangular Hole
D—Small Outer Mounting Hole

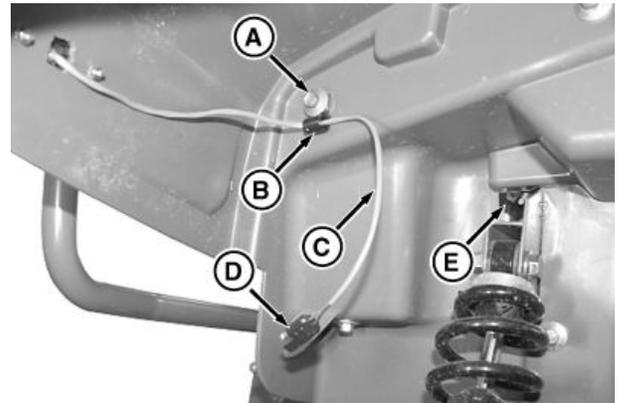
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9. Remove and retain the existing upper front fender self threading screw (A) at left side fender. Install a P-clamp (B) around front marker light wiring lead (C) and secure with fender screw (A), in original mounting hole. Route end of wiring lead with plug connector (D) through opening (E) above shock absorber mount.

NOTE: Wiring lead should be routed carefully along inside of fender to minimize loose or excess wire and prevent damage from foreign objects or moving parts.

10. Plug connector from left front marker light into mating connector from the front light harness at the inside of the fender. Pull excess wire under hood, and secure with tie straps, as necessary.
11. Repeat procedure to install bezel, front marker light, and secure wiring to right fender.



A—Self Threading Screw
B—P-clamp
C—Light Wiring Lead

D—Plug Connector
E—Opening

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Complete Installation

NOTE: Hazard lights, reverse lights, turn signals and front marker lights will not be enabled unless headlight switch is in UP or MIDDLE position.

1. Connect batteries.
2. Adjust and test reverse light function:
 1. Place headlight switch in the UP or MIDDLE position.
 2. Adjust plunger switch position so that reverse lights illuminate when machine is shifted into reverse gear, without bottoming out the plunger on the switch. Tighten plunger switch hardware to secure switch in position.
3. Lower cargo box when proper operation is confirmed.
3. Test all other light functions.
4. Install hood.
5. Lower and secure litter carrier, if installed.
6. Lower seats.

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