

# **Light Kit**

**BM24090**



**JOHN DEERE**

## **INSTALLATION INSTRUCTIONS**

### **Light Kit**

**M169316 20JUL13 (ENGLISH)**

**XUV550, XUV550 S4, XUV 625i, XUV 825i, XUV 855D,  
RSX850i and HPX Gator™ Utility Vehicles**

**John Deere Horicon Works  
M169316 (20JUL13)**

PRINTED IN U.S.A.  
COPYRIGHT © 2013  
DEERE & COMPANY  
Moline, Illinois

All rights reserved.  
A John Deere ILLUSTRATION © Manual

M169316-19-20JUL13



## Parts in Kit

**NOTE:** Kit may be installed on brush guard, on roof, or on Occupant Protective Structure (OPS). All parts may not be used for some installations.

Wiring harness with fuse and relay is used for brush guard installation only. Other harness is used for installation on roof or OPS.

If kit is to be installed on roof or OPS, switch mounting box must be installed first. See your dealer for switch mounting box kit.

Quantity	Description
2	Light Assembly
1	Wiring Harness (for roof or OPS)
1	Wiring Harness (with fuse and relay)
1	Switch
1	Relay
6	Tie Strap
2	Grommet
1	Bracket, Driving Light, Left
1	Bracket, Driving Light, Right
4	Carriage Bolt, M8x25
4	Locknut, M8

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

TH84124,000000B -19-12SEP12-1/1

## Parking Safely

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

TH84124,0000085 -19-28JAN13-1/1

## Install Kit (Models XUV 625i, XUV 825i, XUV 855D)

### Install Bumper Mounted Work Lights

1. Park machine safely. See Parking Safely above.
2. Disconnect negative (-) battery terminal.
3. Install work light (A) onto light bracket (B) and loosely secure with washer (C), lockwasher (D) and locknut (E).

A—Work Light  
B—Light Bracket  
C—Washer

D—Lockwasher  
E—Locknut



Continued on next page

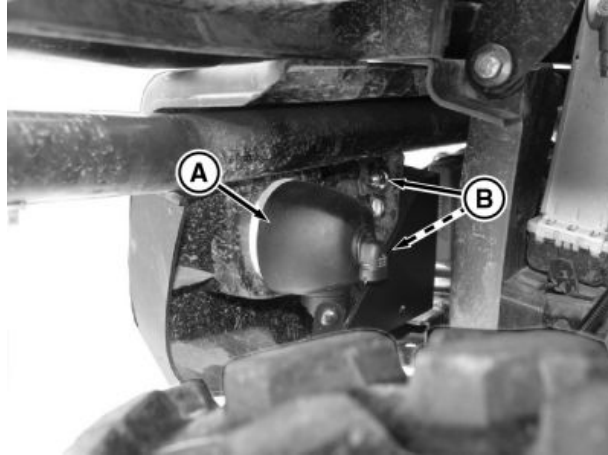
OUMX068,000060D -19-13JUL13-1/6

MXT006564 —UN—18SEP12

4. Install work light and bracket assembly (A) onto machine frame with two M8x25 carriage bolts and M8 locknuts (B).
5. Repeat installation on opposite side of machine.

**A—Work Light and Bracket Assembly**

**B—Locknuts**



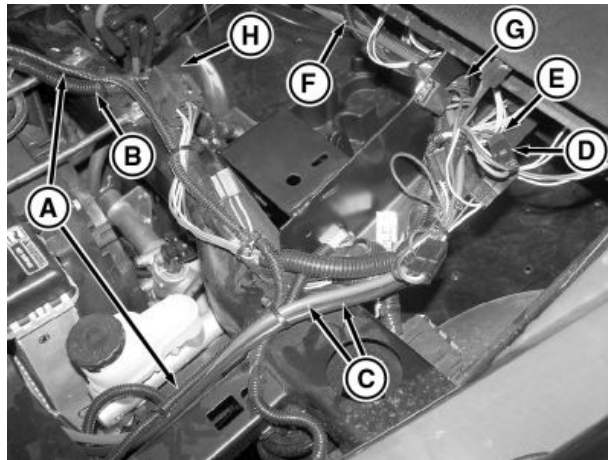
MXT005555 —UN—17SEP12

OUMX068,000060D -19-13JUL13-2/6

6. Route wiring harness (A) along existing wiring harness (B) and battery cables (C).
7. Connect red/black wire connector (D) to main wiring harness red/black wire connector (E).
8. Guide yellow/orange wire (F) connector through round opening (G) in frame and up toward center of back side of console.
9. Install relay (H) onto connector on wiring harness.

**A—Wire Harness**  
**B—Machine Wiring Harness**  
**C—Battery Cables**  
**D—Red/Black Harness Connector**

**E—Red/Black Machine Connector**  
**F—Yellow/Orange Harness Connector**  
**G—Frame Opening**  
**H—Relay**



MXT005556 —UN—13SEP12

OUMX068,000060D -19-13JUL13-3/6

10. Install and connect wiring connector to light switch (A) in any open space on console.

**A—Light Switch**



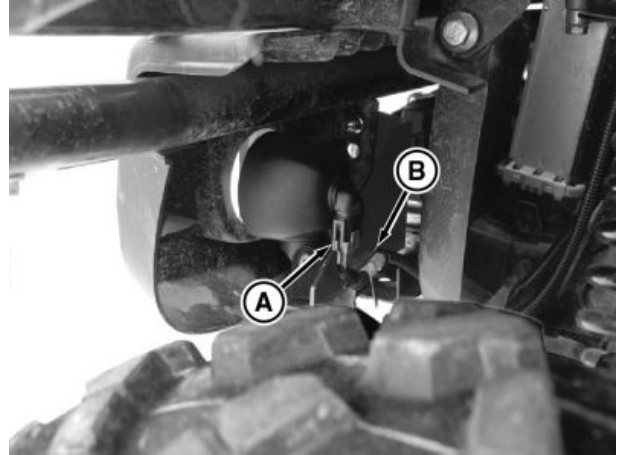
MXT005557 —UN—13SEP12

Continued on next page

OUMX068,000060D -19-13JUL13-4/6

11. Attach wire harness connector (A) to each light. Secure each wiring harness with a tie strap (B) through hole in light bracket .

A—Wiring Harness Connector B—Tie Strap



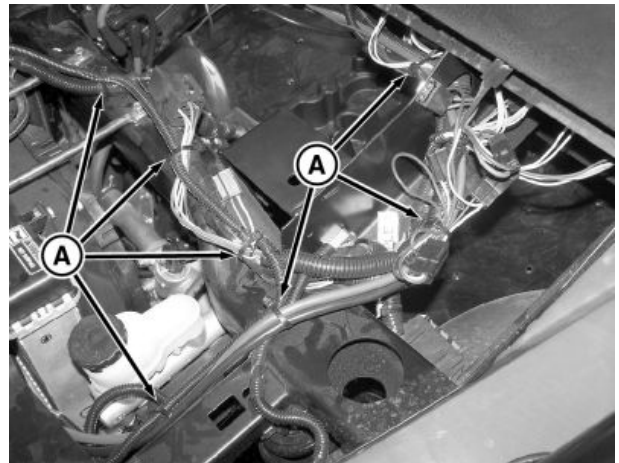
OUMX068,000060D -19-13JUL13-5/6

MXT005558 —UN—17SEP12

**IMPORTANT: Avoid Damage! Make sure wires are not kinked or pulled tight against any metal edges of vehicle frame and do not interfere with any other moving parts before securing with tie straps.**

12. Secure harness with tie straps (A) as necessary.  
13. Connect negative (-) battery terminal.

A—Tie Straps



OUMX068,000060D -19-13JUL13-6/6

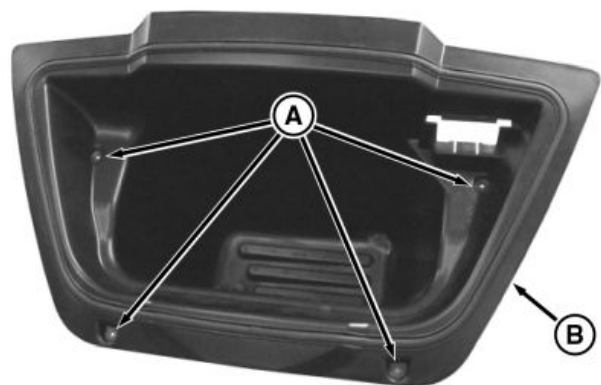
MXT005559 —UN—13SEP12

### Install Kit (Models XUV550, XUV550 S4, RSX850i Brush Guard or Prerunner)

1. Park vehicle safely. (See Parking Safely in the SAFETY section.)
2. Disconnect negative (-) and positive (+) cables from battery.
3. Remove locking pins from brush guard and tilt forward.
4. Open hood.
5. Remove and retain four screws (A) and lift storage compartment (B) from machine.

A—Screws

B—Storage Compartment



Continued on next page

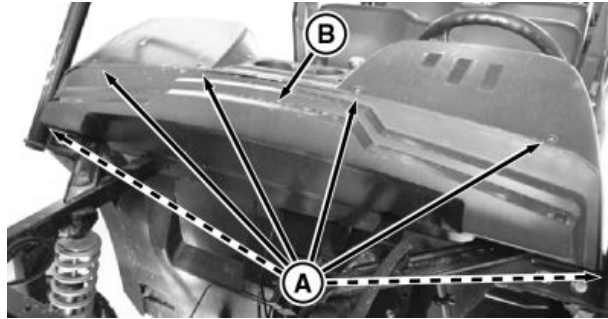
TH84124,000000C -19-18SEP12-1/9

MXT005560 —UN—13SEP12

6. Remove and retain six screws (A) and front panel (B) from machine.

A—Screws

B—Front Panel



MXT005561 —UN—13SEP12

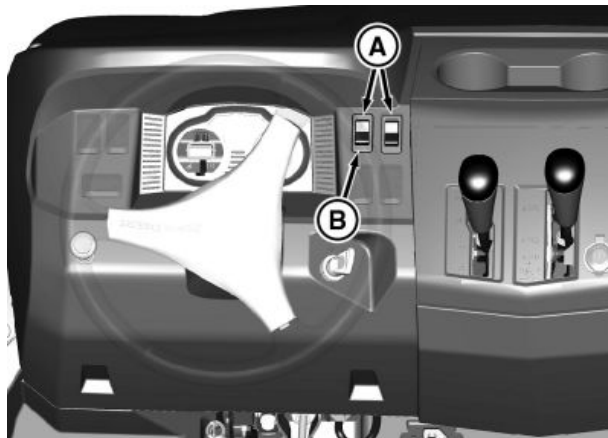
TH84124,000000C -19-18SEP12-2/9

### Install Switch

Remove knockout plug from the instrument panel in one of two positions (A) and install desired label and switch (B) in panel.

A—Switch Locations

B—Light Switch



MXT005562 —UN—13SEP12

TH84124,000000C -19-18SEP12-3/9

### Install Wiring Harness with Fuse and Relay

A—Switch Connector

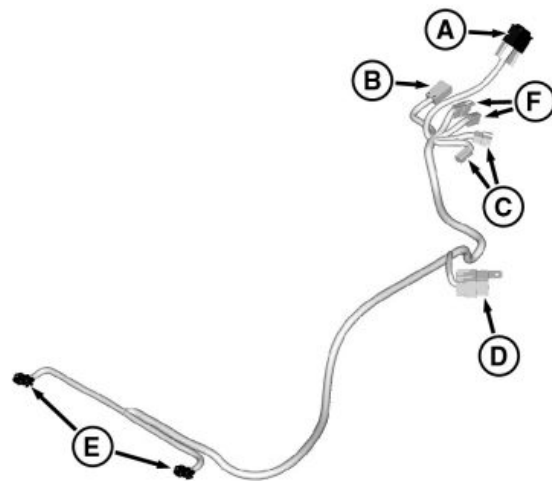
B—Fuse Holder

C—Machine Power Connectors  
(Red/Black Wires)

D—Relay

E—Light Connectors

F—Switched Power  
Connectors (Yellow/Black  
Wires)

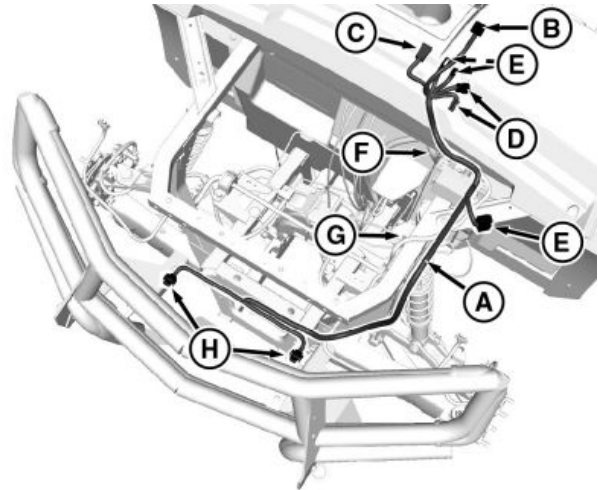


MXT005563 —UN—13SEP12

Continued on next page

TH84124,000000C -19-18SEP12-4/9

1. Position end of wiring harness (A) with light switch connector (B), fuse holder (C) and power connectors (D) and (E) toward the instrument panel, next to machine main wiring harness.
2. Route light switch connector (B) through wiring protector (F) in frame (follow main wiring harness), and over to light switch. Plug connector into light switch.
3. Connect vehicle power connectors (D) (red/black wires) and switched power connectors (E) (yellow/black wires) on wiring harness to mating connectors on machine main wiring harness.
4. Route wiring harness along with machine main wiring harness to frame near left front shock absorber mount.
5. Route short wiring lead with relay (G) under frame brace and secure.
6. Route wiring harness to front of grill, behind the bumper and brush guard.
7. Route light plug connectors (H) as shown.
8. Route longer light connector segment of wiring harness to right side.



Picture Note: XUV550 and XUV550 S4 Shown.

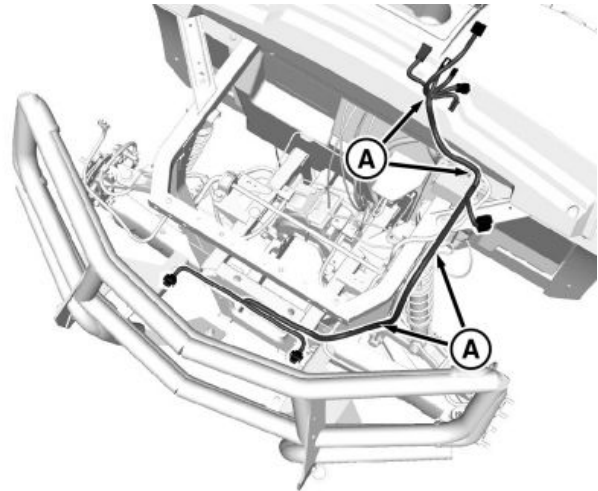
A—Wiring Harness	E—Switched Power Connectors
B—Light Switch Connector	F—Frame Wiring Protector
C—Fuse Holder	G—Relay
D—Machine Power Connectors	H—Light Connectors

TH84124.000000C -19-18SEP12-5/9

MXT005564 —UN—13SEP12

9. Secure harness away from hot or moving parts with tie straps near locations (A) shown.

**A—Tie Strap Locations**



Picture Note: XUV550 and XUV550 S4 Shown.

Continued on next page

TH84124.000000C -19-18SEP12-6/9

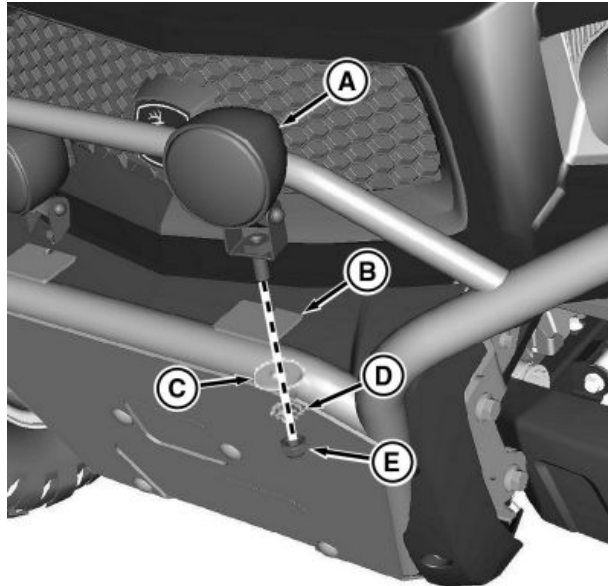
MXT005565 —UN—13SEP12

**Install Light Assemblies (Brush Guard or Prerunner)**

1. Remove and retain hardware from mounting bolt on each light assembly.
2. Install light assemblies (A) on mounting bracket (B) at each side of brush guard or prerunner with washer (C), lockwasher (D) and locknut (E) retained earlier. Tighten nut to 75 N•m (55 lb-ft).
3. Install wiring harness light plug connectors into light assemblies.
4. Connect battery.
5. Test light beam coverage. Adjust light position, if needed, and tighten hardware.

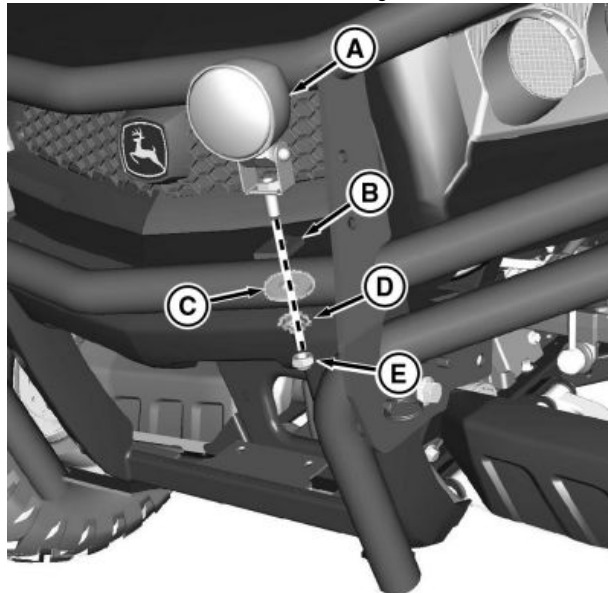
A—Light Assembly  
B—Mounting Bracket  
C—Washer

D—Lockwasher  
E—Locknut



MXT005566—JUN—18SEP12

Picture Note: RSX850i Left Side Light Shown on Prerunner



MXT005567—JUN—18SEP12

Picture Note: XUV550 and XUV550 S4 Left Side Light Shown on Brush Guard

Continued on next page

TH84124,000000C -19-18SEP12-7/9

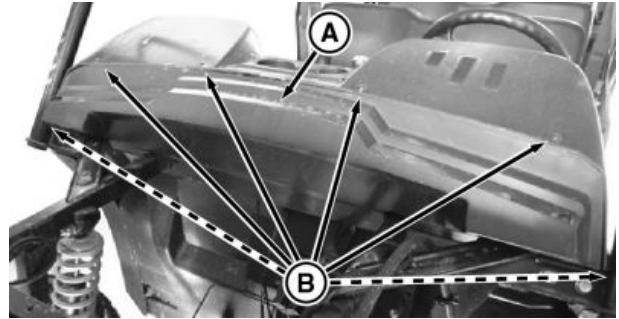


### Final Installation

1. Replace front panel (A) and six screws (B) retained earlier.

A—Front Panel

B—Screws



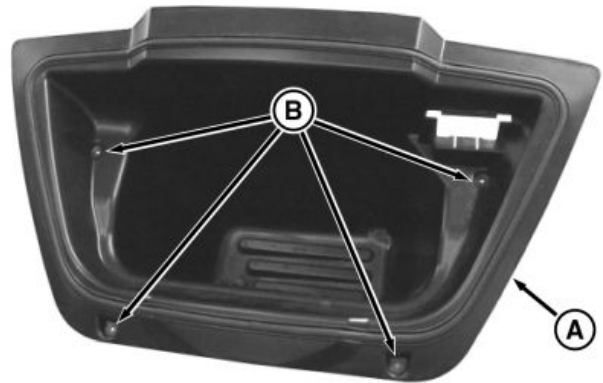
MXT005568 —UN—13SEP12

TH84124,000000C -19-18SEP12-8/9

2. Replace storage compartment (A) and four screws (B) retained earlier.
3. Close hood.
4. Tilt brush guard back and install latch pins to secure.
5. Test light beam coverage with hood closed and brush guard in operating position. Adjust light position, if needed, and tighten hardware.

A—Storage Compartment

B—Screws



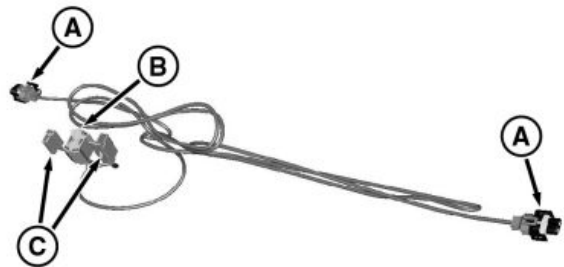
MXT005569 —UN—13SEP12

TH84124,000000C -19-18SEP12-9/9

### Install Wiring Harness (Models XUV550, XUV550 S4, RSX850i, XUV 625i, XUV 825i, XUV 825i S4, XUV 855D, XUV 855D S4 and HPX)

**NOTE:** The procedure shown is for the XUV550 vehicles.  
The installation is the same for all vehicles for roof and OPS mounted lights.

1. Park machine safely. (See Parking Safely.)
2. If installed, remove roof.

A—Light Connectors  
B—Light Switch Connector

C—Power Connectors

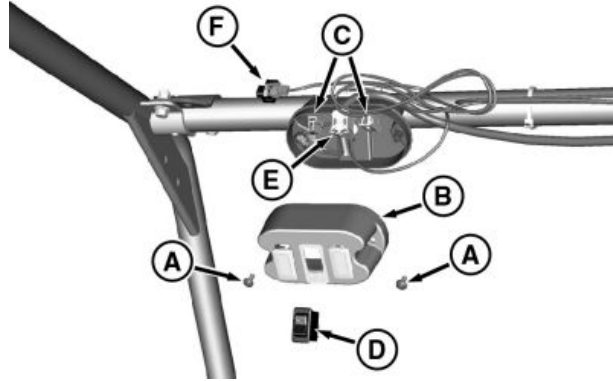
MXT005570 —UN—13SEP12

Continued on next page

OUMX068,0000611 -19-13JUL13-1/2

### For Front of Roof or Occupant Protective Structure (OPS) Installation

1. Remove and retain two screws (A) from switch mounting box.
2. Remove switch mounting box cover (B).
3. Connect wiring harness (C) power connectors to power connectors in switch mounting box.
4. Install switch (D) into switch mounting box cover.
5. Plug light switch connector (E) onto switch.
6. Attach switch mounting box cover to backing with two screws.
7. Route shorter harness section with light connector (F) to left side for installation on left light assembly.
8. Route longer harness section with light connector to right side for installation on right light assembly.



A—Screws  
B—Switch Box Mounting Cover  
C—Wiring Harness  
D—Light Switch  
E—Light Switch Connector  
F—Light Connector

OUMX068,0000611 -19-13JUL13-2/2

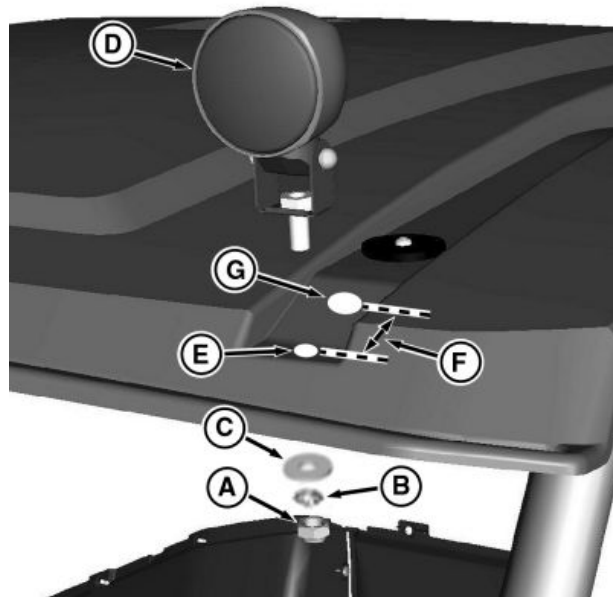
MXT005571 —UN—13SEP12

### Install Lights on Roof (Models XUV550, XUV550 S4, RSX850i, XUV 625i, XUV 825i, XUV 825i S4, XUV 855D, XUV 855D S4 and HPX)

*NOTE: The procedure shown is for the XUV550 vehicles. The installation is the same for all vehicles for roof and OPS mounted lights.*

1. Install roof if removed earlier.
2. Remove and retain locknut (A), lockwasher (B) and washer (C) from mounting bolt on each light assembly (D).
3. Drill an 11 mm (7/16 in.) hole at cross hatched location (E).
4. Measure 40 mm (1-37/64 in.) (F) directly behind first hole, and mark and drill a 25.4 mm (1 in.) hole at location (G).

A—Locknut  
B—Lockwasher  
C—Washer  
D—Light Assembly  
E—Light Mounting Hole  
F—Hole Offset Dimension  
G—Grommet Mounting Hole



Picture Note: Cross Hatch Marks Are Underneath Roof

Continued on next page

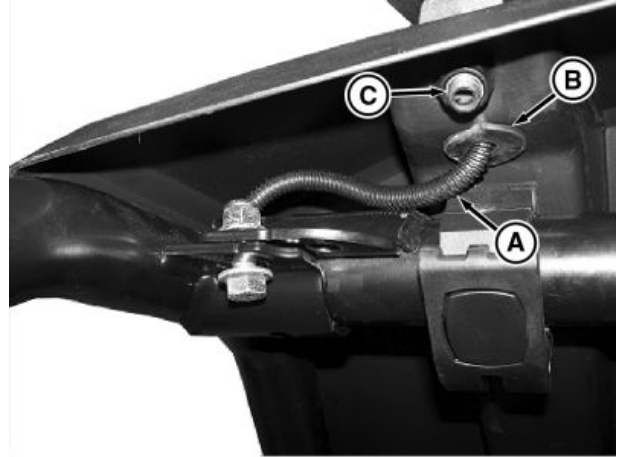
OUMX068,0000612 -19-13JUL13-1/3

MXT005608 —UN—18SEP12

5. Insert wiring harness (A) with light connectors through grommet (B).
6. Install grommet into 25.4 mm (1 in.) hole as shown.
7. Install light assembly on roof with washer, lockwasher and locknut (C).

A—Wiring Harness  
B—Grommet

C—Locknut

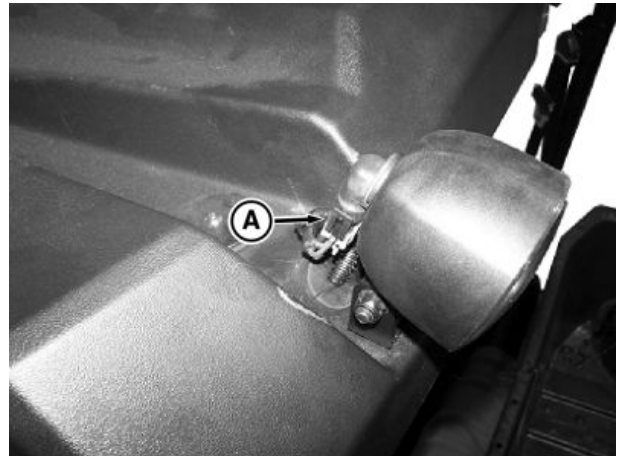


MXT005609 —UN—13SEP12

OUMX068,0000612 -19-13JUL13-2/3

8. Install light connector (A) into light assembly connector.
9. Repeat for other side of roof.
10. Connect battery.
11. Test light beam coverage. Adjust light position, if needed, and tighten hardware.
12. Use tie straps as needed to secure wiring harness.
13. To waterproof each assembly, apply silicone caulk around the wiring harness at drilled holes.

A—Wiring Harness Connector



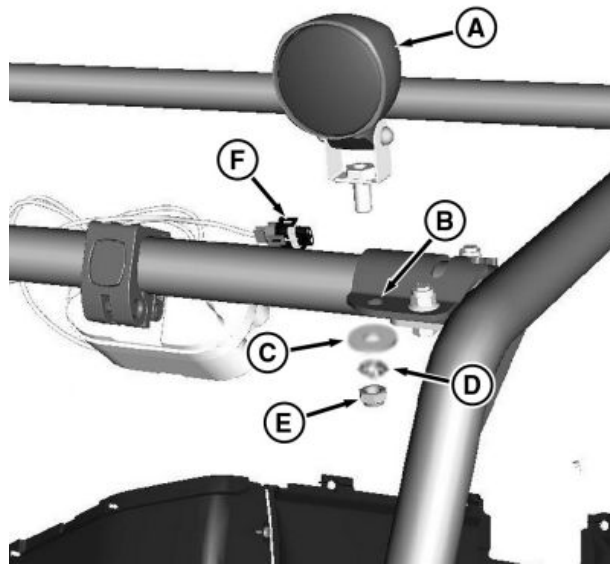
MXT005610 —UN—13SEP12

OUMX068,0000612 -19-13JUL13-3/3

## Install Lights on Occupant Protective Structure (Models XUV550, XUV550 S4, RSX850i, XUV 625i, XUV 825i, XUV 825i S4, XUV 855D, XUV 855D S4 and HPX)

*NOTE: The procedure shown is for the XUV550 vehicles. The installation is the same for all vehicles for roof and OPS mounted lights.*

1. Remove and retain locknut, lockwasher and washer from mounting bolt on each light assembly.
2. Install light assembly (A) into mounting bracket (B) on each side of OPS with washer (C), lockwasher (D) and locknut (E).
3. Connect wiring harness connectors (F) to light assemblies.
4. Connect battery.
5. Test light beam coverage. Adjust light position, if needed, and tighten hardware.
6. Use tie straps as needed to secure wiring harness.



A—Light Assembly  
B—OPS Mounting Bracket  
C—Washer

D—Lockwasher  
E—Locknut  
F—Wire Harness Connector

MXT005611 —UN—18SEP12

OUMX068,0000613 -19-13JUL13-1/1