

# Front Work Light Harness Kit

BM21651



**JOHN DEERE**

## INSTALLATION INSTRUCTIONS

### Front Work Light Harness Kit

M152760 02JUN20 (ENGLISH)

4X2 HPX, 4X4 HPX, A1, A2, HPX615E, HPX815E, TE,  
TH, TS, TX, TX Turf, XUV620i, XUV625i, XUV825E,  
XUV825i, XUV825M, XUV850D, XUV855D, XUV855E,  
and XUV855M Gator™ Utility Vehicles

**John Deere Horicon Works**  
**M152760 (02JUN20)**

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A John Deere ILLUSTRATION™ Manual

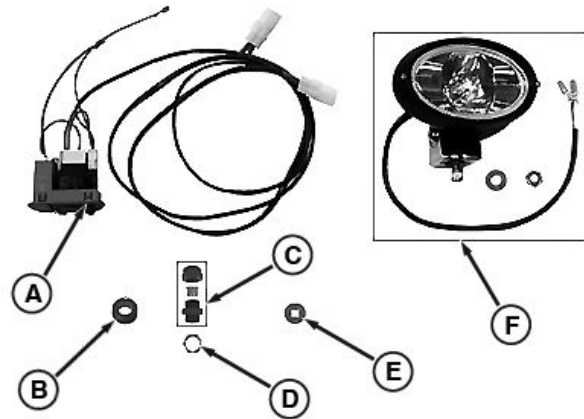
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## Parts in Kit

Quantity	Description
1	Switch and Harness Assembly (A) (includes fuse)
4	Grommet (B) (HPX only) (in the separate bag)
2	Weatherproof Fitting (C) (T-Series only) (in the separate bag - includes nut, bulkhead fitting, compression fitting, and sealing nut)
2	Jam Nut (D)
2	Sealing Washer (E) (T-series only) (in the separate bag)
2	Light Assembly (F) (includes hardware)

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



BVVMSIT,00002F9 -19-13MAY20-1/1

APY37014 —UN—13MAY20

## Parking Safely

Park the machine safely. See Parking Safely in your Operator's Manual.

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## Prepare Machine

**NOTE:** The **Electrical Kit** must be installed before installation of this kit.

1. Disconnect ground cables at the battery negative (—) terminal.

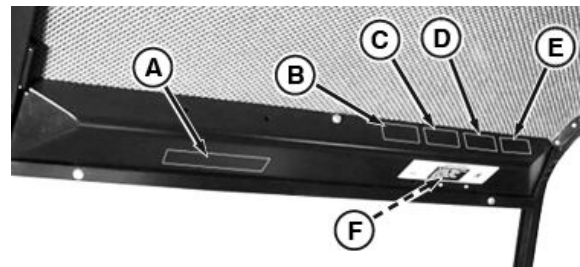
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## Prepare Roof Console for Wiring Installation

1. Verify correct switch/fuse holder position in the roof console.

A— Interior Light  
B— Windshield Wiper  
Switch/Fuse Holder  
C— Front Work Light  
Switch/Fuse Holder

D— Rear Work Light  
Switch/Fuse Holder  
E— Beacon Light Switch/Fuse  
Holder  
F— Ground Strip Location  
(Inside Console)



**Note:** HPX Series Shown. (Knock-out location and orientation are same for T-series.)

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2. Partially push in one corner of the knockout (A) for the front work light switch for easy removal.

**NOTE:** Take the help of an assistant for supporting the console when lowering and securing it for wiring installation.

3. Remove hardware retaining roof console and carefully lower console partway.
4. Securely attach a tie strap (preferred - not included), section of wire, or other material through the upper (center) mounting hole in the console.
5. The corresponding mounting hole in the canopy roof is to support the console safely in a hanging position.
6. Carefully bend edge of switch knock-out (A) back and forth to snap the retaining tabs, and remove the knock-out (A) from the console.
7. The console switch and wiring can be installed.



**A—Knockout**

8. If other electrical accessories are installed, perform all of the installations before assembling the console to the canopy.

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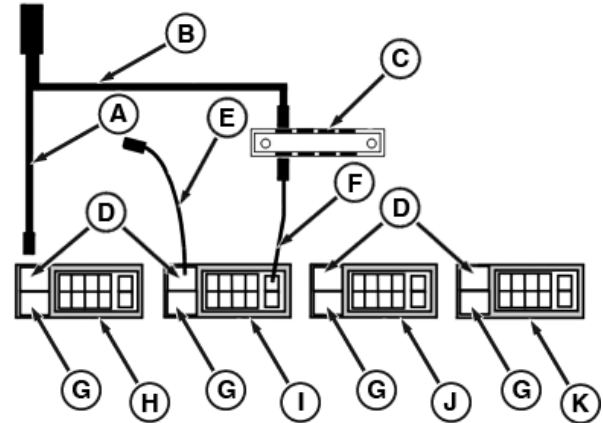
## Install Light Switch and Console Wiring

**NOTE:** Use dielectric grease or equivalent to all electrical connectors during assembly.

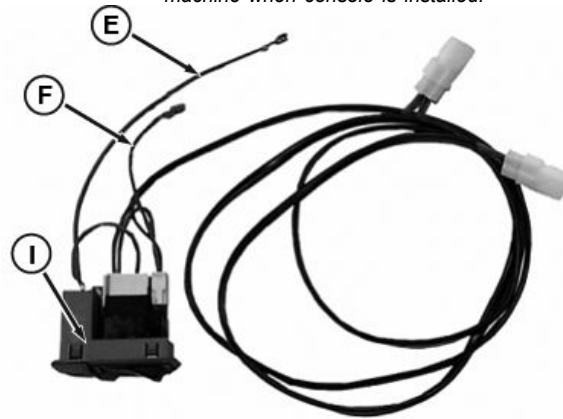
The front work light switch/fuse (I) is supplied with the dual light wiring harness already installed into the proper terminal connectors at the switch.

An installed unconnected power lead (red) (E) supplies power from the fuse terminal (G) to the switch, and a fuse is supplied in the fuse holder.

1. Install the harness assembly and switch into the console with the fuse positioned to the left side. Push to snap switch/fuse holder securely in position.
2. Connect wiring leads at console.
  - If the windshield wiper switch (H) is installed, then the battery lead (A) is already connected to the system power fuse terminal (D) on windshield wiper switch (H). The battery ground lead (B) is connected to ground strip (C). Connect unconnected ground lead (F) from the front work light switch (I) to a ground strip (C). And unconnected power lead (E) from the front work light switch (I) to the system power fuse terminal (D) on the windshield wiper switch (H). This connection supplies system voltage to the front work light switch (I).
  - If the windshield wiper switch (H) is not installed, but rear work light switch (J) or beacon light switch (K) is installed. Then the battery leads are already connected to existing switch and ground strip (C). Connect ground lead (F) from the front work light switch (I) to a ground strip (C). And unconnected power lead (E) from the front work light switch (I) to the system power fuse terminal (D) on available switch.
  - If interior light is installed, but no other switches. Then the battery power lead (A) is connected directly to the interior light power terminal and battery ground lead (B) is connected to ground strip (C). In this case, disconnect battery power lead (A) from interior light switch. Connect it to the system power fuse terminal (D) on the front work light switch. Move the unconnected power lead (E) on the front work light switch (I) to the fused power fuse terminal (G) on the front work light switch (I). Connect the other end to power terminal on interior light switch where battery lead was connected earlier. These connections supply system power to the fuse for the front work light and fused power from the front work light to the interior light. Connect unconnected ground lead (F) on the front work light switch (I) to a ground strip (C).
  - If no other switches or interior light is installed, remove the unconnected power lead (E) from the front work light switch (I) at the system power fuse terminal (D). Connect the battery power lead (A) from



*Note: Console wiring reference. Note the position of switches and ground strip. Ground strip is toward the front of machine when console is installed.*



Front work light switch/fuse holder and wiring harness before installation.

- |  |  |
|--|--|
| A— Battery Power Lead (red) (large diameter wire)                            | G— Fused Power Fuse Terminal (two connectors per terminal) (power out) |
| B— Battery Ground Lead (brown) (large diameter wire)                         | H— Windshield Wiper Switch/Fuse (7.5A Fuse) (if installed)             |
| C— Ground Strip (common for all console ground leads)                        | I— Front Work Light Switch (10A Fuse)                                  |
| D— System Power Fuse Terminal (two connectors per terminal) (power in)       | J— Rear Work Light Switch (5A Fuse) (if installed)                     |
| E— Unconnected Power Lead (red) (from front work light switch fuse terminal) | K— Beacon Light Switch (5A Fuse) (if installed)                        |
| F— Unconnected Ground Lead (brown) (from front work light switch)            |  |

the battery in its place. Connect the unconnected ground lead (F) to the ground strip (C).

3. Coil switch harness on the console for routing in a later step.

BVVM5IT,00002FC -19-19MAY20-1/1

## Install Work Light

**NOTE:** Installation procedure is the same for left and right side lights.

1. Remove nut (C), and spring washer (B) from the work light assembly (A), and retain for later use.

A— Work Light Assembly  
B— Spring Washer

C— Nut



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BVVMST,00002FD -19-19MAY20-1/6

## Install Work Light Assembly (HPX Series Machines)

**NOTE:** If windshield kit is installed on HPX machines, windshield must be temporarily removed to install front work lights. Disconnect electrical plug at the wiper motor and, with helper, support windshield, disconnect lift supports, remove hardware and set windshield aside.

1. Install grommets (B) into the outer and inner holes on each side of the canopy roof where the light harnesses pass through. The blind holes on each side are for the lights and mounting hardware.
2. Install the lights into the mounting holes and secure with the spring washers and nuts (A) removed earlier. Tighten hardware.
3. Route the light harnesses through the grommets on each side into the canopy roof and adjust as necessary.



*Note: Left front work light shown.*

A— Nut

B— Grommet (2 used)

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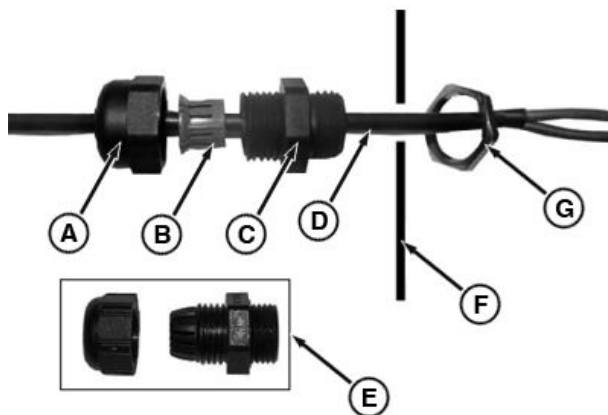
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### Install Work Light Assembly (T-Series Machines)

**NOTE:** The supplied weatherproof fitting is one of the two shown. The alternate fitting (E) does not have a separate compression bushing.

1. Open bag of parts containing weatherproof fitting and disassemble the fitting.
2. Loosely install the bulkhead fitting (C), compression bushing (B) (if present), and component sealing nut (A) onto the work light wiring harness (D), as shown. Assemble it but do not tighten.
3. Fitting assembly is able to slide on the harness. Weatherproof fitting is at outside of cab roof (F), and secured on the inside with nut (G).

A— Sealing Nut	E— Alternate Fitting
B— Compression Bushing	F— Cab Roof
C— Bulkhead Fitting	G— Nut
D— Work Light Wiring Harness	



Note: Weatherproof fitting assembly and alternate fitting.

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APY37021—UN—13MAY20

4. Remove two rubber plugs in the cab roof.
5. Install sealing washer (A) onto the work light assembly bolt (B) for creating the seal between the work light bracket and cab roof. Secure work light assembly from the inside of the cab roof, using spring washer and nut, removed earlier.
6. Install wiring with the weatherproof fitting into the cab roof access hole, secure with nut, and tighten the sealing nut (C).

A— Sealing Washer	C— Sealing Nut
B— Bolt	



Note: Left front work light shown.

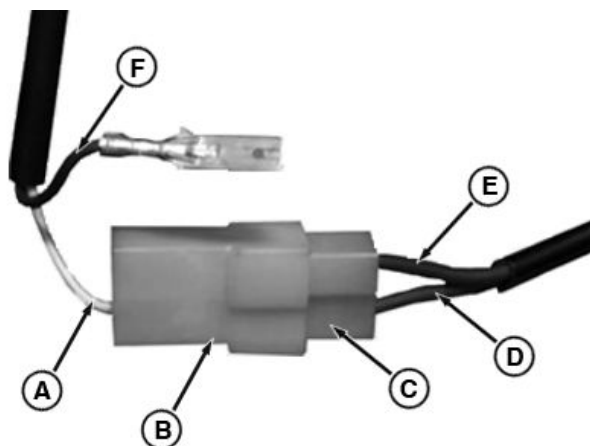
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### Complete Installation

1. Insert the work light wiring leads into the female connector (B), which is supplied already attached to the light switch wiring harness connector (C)
  - a. Insert white lead (A) from the work light harness into the female connector (B) cavity corresponding to the red lead (D) from the switch wiring harness. Then pull apart female connector (B) and light switch wiring harness connector (C). Push terminal on white lead (A) firmly into the female connector (B) until it snaps into the position. Pull lightly to make sure that it is locked in place.
  - b. Insert black lead (F) from the work light harness into the female connector (B) cavity corresponding to the brown lead (E) from the switch wiring harness. Push terminal on black lead (F) firmly into the female connector (B) until it snaps into the position. Pull lightly to make sure that it is locked in place.
  - c. Plug female connector (B) firmly into the light switch wiring harness connector (C).
2. Install windshield and components (for HPX machines).
3. Coil excess wiring harness safely within console, remove material temporarily supporting console and install console using hardware removed earlier.



A— White Lead  
B— Female Connector  
C— Light Switch Wiring  
Harness Connector

D— Red Lead  
E— Brown Lead  
F— Black Lead

APY37023 —UN—13MAY20

BVVMSIT,00002FD -19-19MAY20-5/6

4. Connect ground leads at the battery negative (—) terminal.
5. Test rocker switch (A) and lamp for proper operation (ignition key must be on). Access door (U) covers 10A fuse.

A— Rocker Switch

B— Access Door



APY37024 —UN—13MAY20

BVVMSIT,00002FD -19-19MAY20-6/6

### Replace Work Light Bulb

1. Remove lens cover and lens.
2. Remove work light bulb.
3. Replace bulb, lens, and lens cover.
4. Test for proper operation.

BVVMSIT,00002FE -19-12MAY20-1/1