



JOHN DEERE

Product Services Information

INSTALLATION INSTRUCTIONS

(Includes English, French, German, Spanish and Italian)



JOHN DEERE

LIGHT KIT

Parts in Kit

Z225 and Z245

Qty.	Description
1	Wiring Harness, Headlight
1	Wiring Harness, Light Power (SN 060001-)
1	Light, Left
1	Switch, Light
1	Fuse, 7.5 amp
2	P-Clip
3	Tie Strap
1	Bracket, Light (SN 060001-)
1	Carriage Bolt, M8x16
1	Locknut, M8

Z425, Z445 and Z465

Qty.	Description
1	Wiring Harness, Headlight
1	Wiring Harness, Light Power (SN 060001-)
1	Light, Left
1	Light, Right
1	Switch, Light
1	Fuse, 7.5 amp
2	P-Clip
3	Tie Strap

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

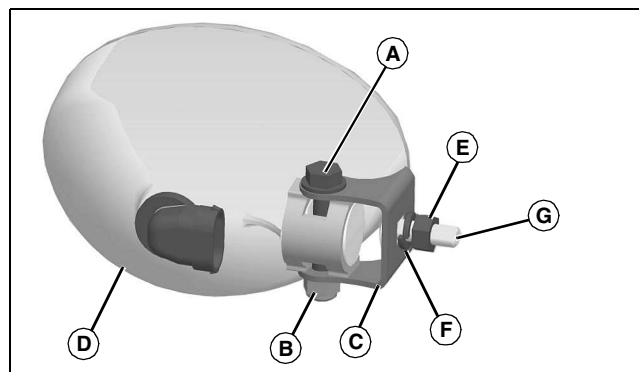
Parking Safely

1. Stop machine on a level surface, not on a slope.
2. Disengage mower blades.
3. Move motion control levers out to the Start/Shutdown position.
4. Lock the park brake.
5. Stop the engine.
6. Remove the key.
7. Wait for engine and all moving parts to stop before you leave the operator's seat.
8. Disconnect the negative battery cable or remove the spark plug wire (for gasoline engines) before servicing the machine.

Install Light Kit (Models Z225 and Z245 - SN to 060000)

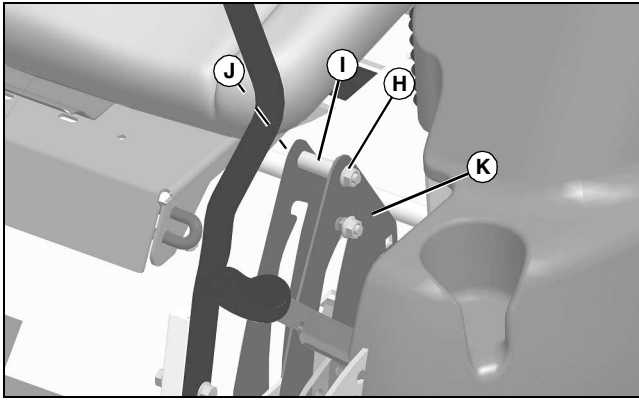
NOTE: The light power wiring harness and light mounting bracket, required on SN 060001 and later machines, are not required for this application.

1. Park machine safely. See Parking Safely above.



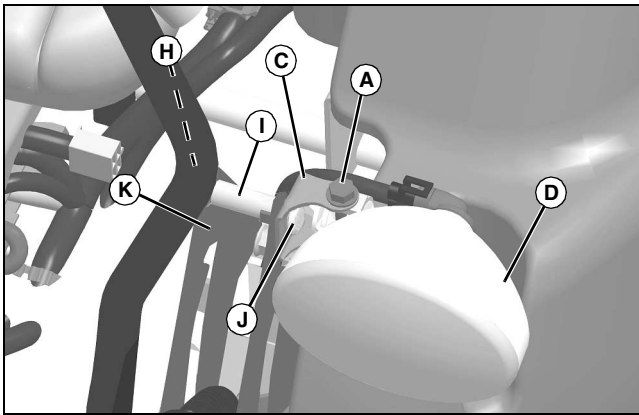
MX37470

2. Remove bolt (A) and locknut (B), and remove bracket (C) from light assembly (D). Retain hardware.
3. Remove nut (E), lockwasher (F), and carriage bolt (G), from bracket (C). Discard this hardware.



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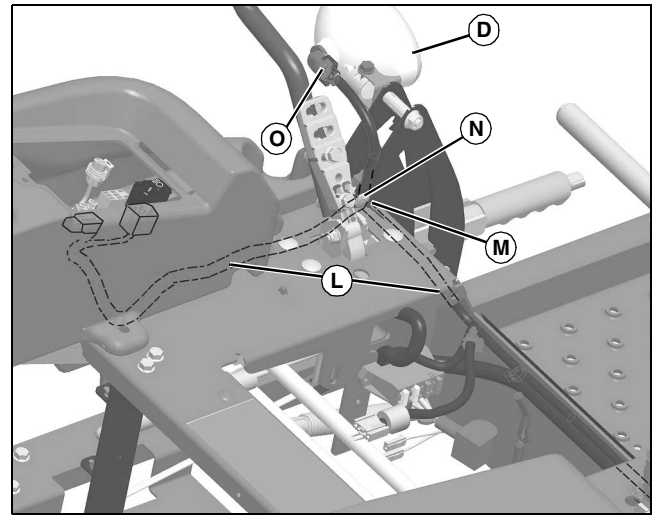
4. Remove locknut (H), spacer (I), and carriage bolt (J) at top of parking brake bracket (K) on left side of machine. Retain hardware and spacer.



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5. Install carriage bolt (J) through bracket (C), and through parking brake bracket (K) and spacer (I). Secure with locknut (H) removed in previous step. Tighten hardware.
6. Install left light assembly (D) back onto bracket (C) with bolt (A) and locknut removed earlier. Tighten hardware.
7. Remove instrument panel for wiring harness installation.

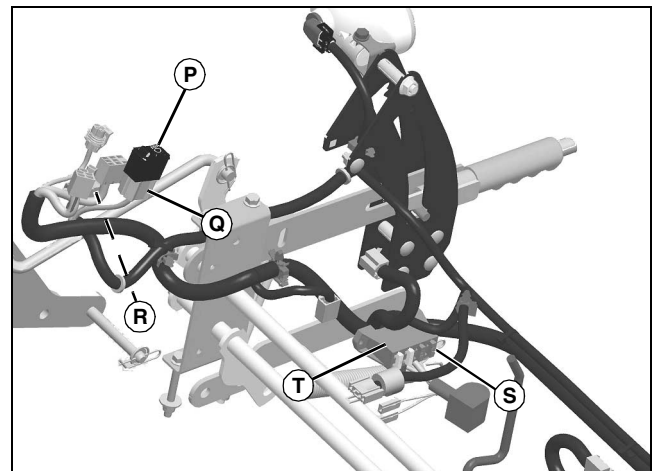
NOTE: Do not cut tie straps on light wiring harness.



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Picture Note: Seat panel and seat removed for clarity.

8. Lay out wiring harness (L), as shown, from instrument panel, routing through frame at location (M). Use tie strap to secure light harness to main harness at rear main harness clip. Make sure harness is clear of brake lever.
9. Remove lock nut from carriage bolt (N) on parking brake bracket. Install P-clip onto harness and onto carriage bolt on inside of parking brake bracket, and install locknut. Route away from moving parts, and tighten locknut.
10. Connect harness connector (O) onto left light assembly (D).



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Picture Note: Left panel, seat panel, and seat removed for clarity.

11. On top of left panel, remove switch cover, and install light switch (P). From under left panel, connect end (Q) onto switch.
12. Under left panel, connect end (R) to main harness connector.
13. Install 7.5 amp fuse (S) onto front slot in fuse block (T).

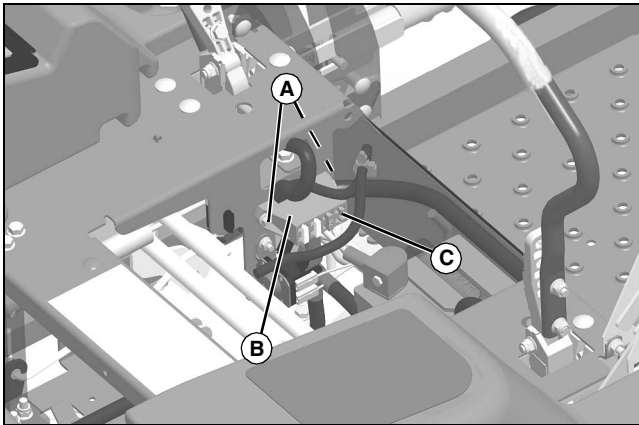
14. Connect battery, and check operation of lights. Adjust light, if necessary.

Install Light Kit (Models Z225 and Z245 - SN 060001 and later)

Prepare for Installation

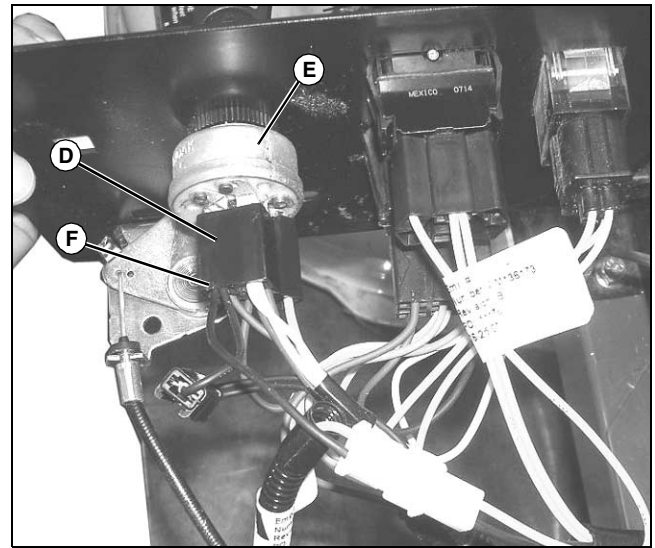
1. Park machine safely. See Parking Safely above.
2. Remove and retain hardware securing instrument panel to left side fender.
3. Remove left side fender, sliding instrument panel through opening. Set fender aside.

Install Light Power Wiring Harness



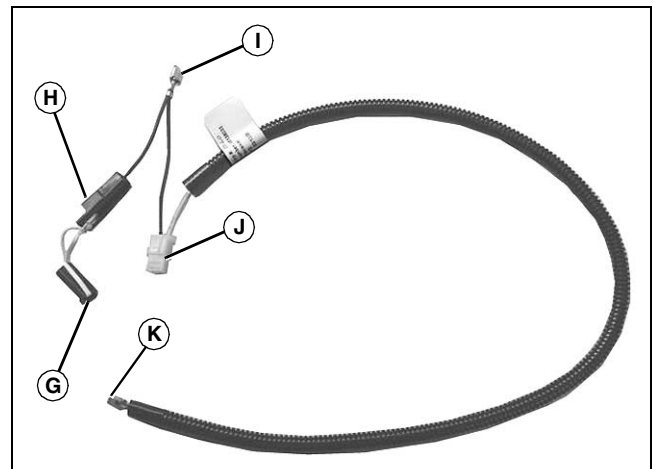
MX37906

1. Remove mounting bolts (A) from fuse block (B).
2. Install wire terminal from light power harness into only empty cavity (C) (in back side of fuse block). Make sure tabs are fully engaged. Install fuse.
3. Install fuse block with mounting bolts.
4. Route wire of light power harness alongside main harness leading to key switch.



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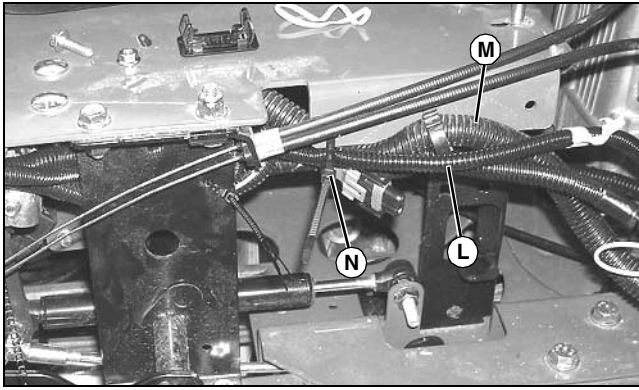
5. Remove wiring plug (D) from key switch (E).
6. Using small flat screwdriver, depress locking tab on ground wire terminal from location (F). Remove ground wire terminal from plug.
7. Re-set locking tabs on ground wire terminal.



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Picture Note: (J) connects to headlight harness. (K) connects into fuse block.

8. Remove single plug (G) from light power harness (temporarily attached with elastic band). Insert ground wire terminal (removed in step 6) into plug and connect to mating single plug (H) on light power harness.
9. Plug remaining single terminal (I) from light power harness into key switch plug in same position as the original wire was first removed.

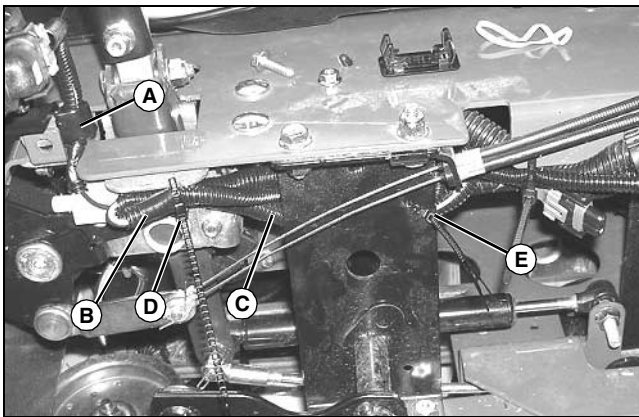


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10. Making sure excess wiring harnesses are clear of all moving parts, secure light power harness (L) to main harness (M) and machine frame as shown with tie straps (N).

Install Headlight Wiring Harness and Light Assembly

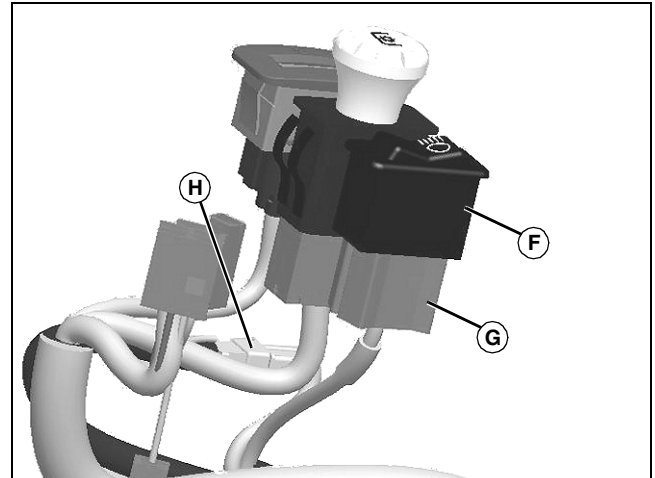
1. To reduce the amount of wire in brake area, cut and remove tie strap closest to left headlight plug on headlight harness.



MX40972

2. Install P-clip (A) onto harness as shown.

3. Making sure excess wiring harnesses are clear of all moving parts, secure headlight harness (B) to main harness (C) and frame as shown using tie strap (D). Attach free loop of harness (from step 1) back to itself using tie strap (E) and frame hole. Ensure wires are free of moving parts.

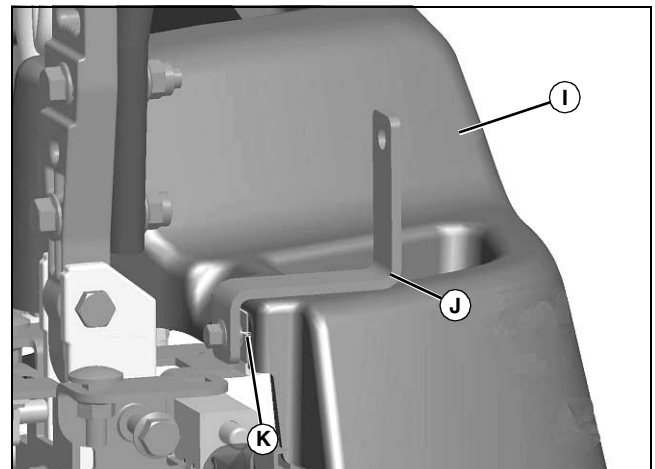


MX40973

Picture Note: Left panel, seat panel, and seat removed for clarity.

4. On top of left panel, remove switch cover, and install light switch (F). From under left panel, connect end (G) onto switch.

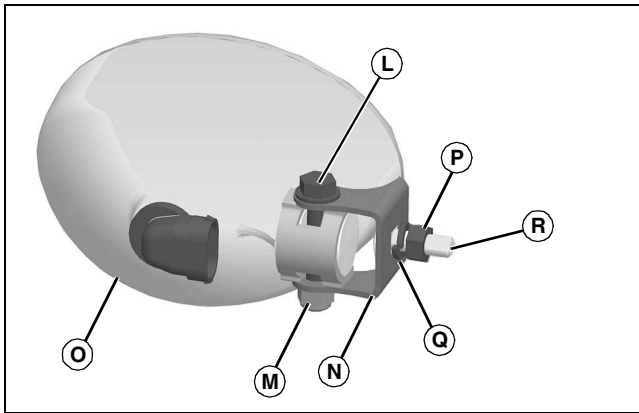
5. Connect end (H) to light power harness connector.



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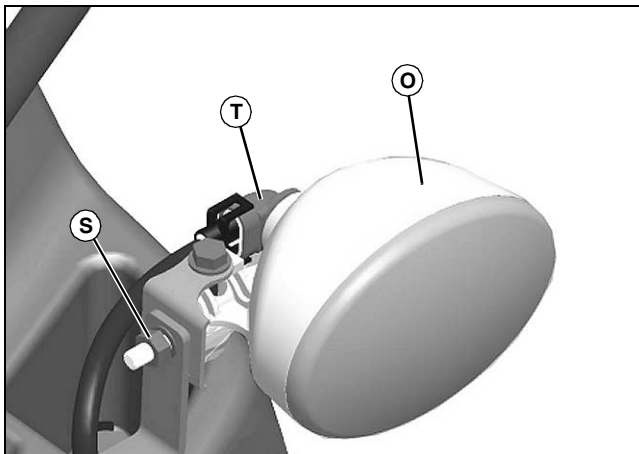
6. Install left side fender (I) and light bracket (J), capturing P-clip (K) between bracket and frame. Ensure wiring conduit protects wires from frame contact.

7. Install instrument panel in fender opening and secure with hardware removed earlier.



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8. Remove bolt (L) and locknut (M), and remove bracket (N) from light assembly (O). Retain hardware.
9. Remove nut (P), lockwasher (Q), and carriage bolt (R), from bracket (N). Discard this hardware.
10. Install shorter M8x16 carriage bolt in kit in place of carriage bolt (R), just removed. Assemble bracket (N) back onto light assembly (O) with bolt (L) and locknut (M).



MX40975

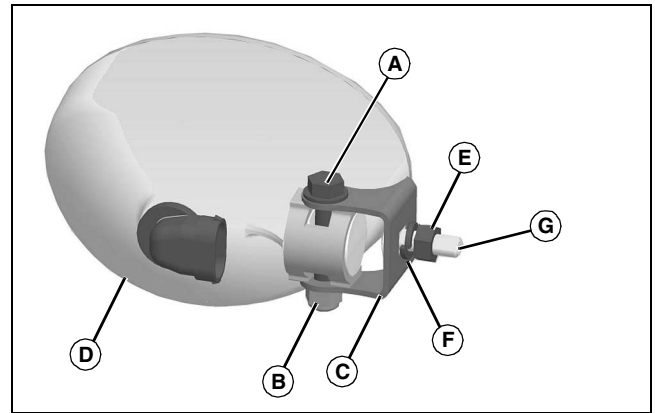
11. Install light assembly (O) and secure with M8 locknut (S).
12. Plug wiring connector (T) into light.
13. Connect battery, and check operation of lights. Adjust light, if necessary.

Install Light Kit (Models Z425, Z445 and Z465)

NOTE: A light power wiring harness (supplied) is required on SN 060001 and later machines.

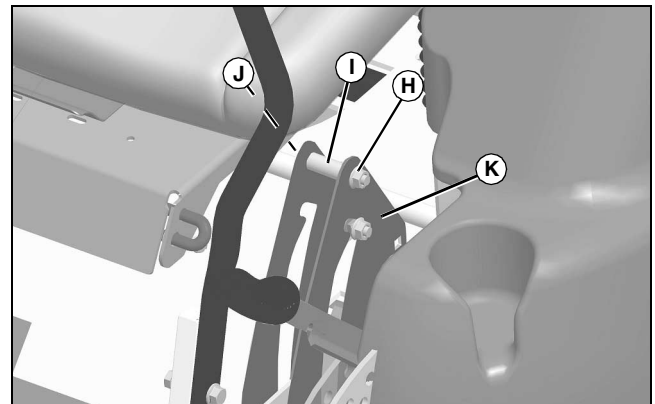
Install Left Side Light Assembly

1. Park machine safely. See Parking Safely above.



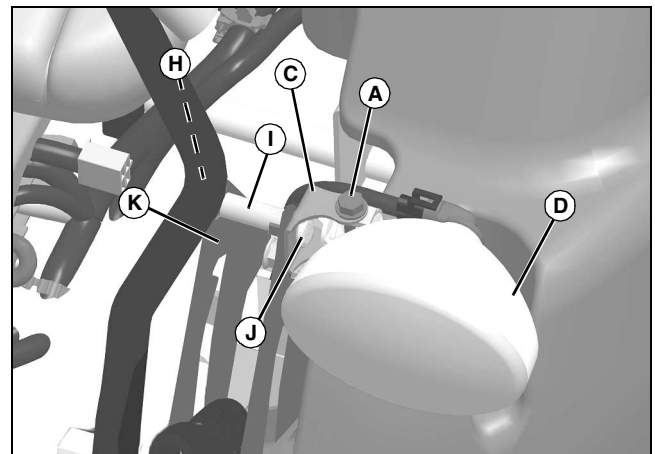
MX37470

2. Remove bolt (A) and locknut (B), and remove bracket (C) from light assembly (D). Retain hardware.
3. Remove nut (E), lockwasher (F), and carriage bolt (G), from bracket (C). Discard this hardware.



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4. Remove locknut (H), spacer (I), and carriage bolt (J) at top of parking brake bracket (K) on left side of machine. Retain hardware and spacer.

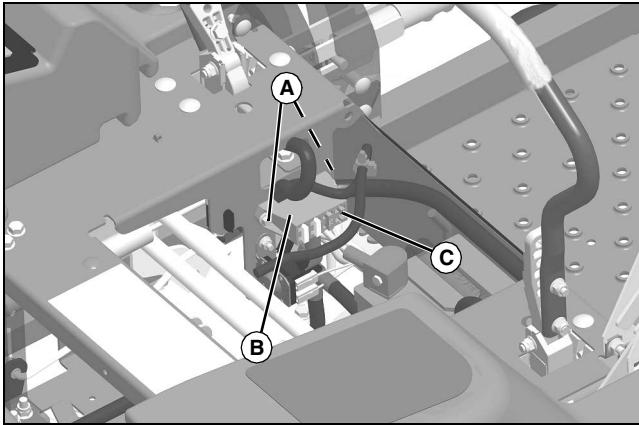


MX37472

5. Install carriage bolt (J) through bracket (C), and through parking brake bracket (K) and spacer (I). Secure with locknut (H), removed in previous step. Tighten hardware.
6. Install left light assembly (D) back onto bracket (C) with bolt (A) and locknut removed earlier. Tighten hardware.

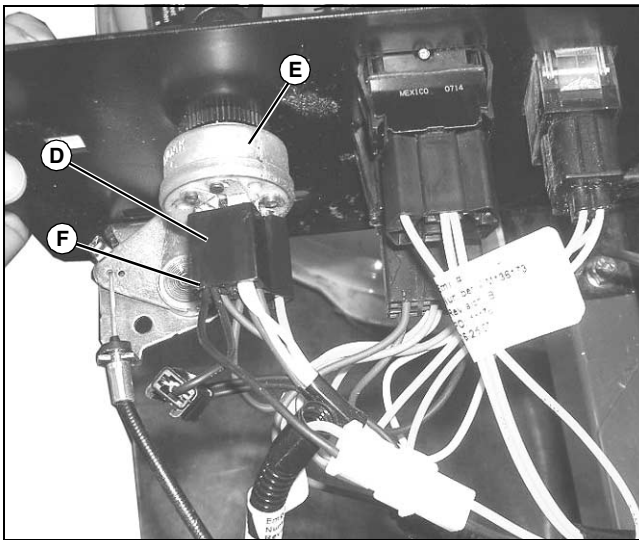
Install Light Power Wiring Harness (SN 060001-)

1. Remove and retain hardware securing instrument panel to left side fender. Remove instrument panel.



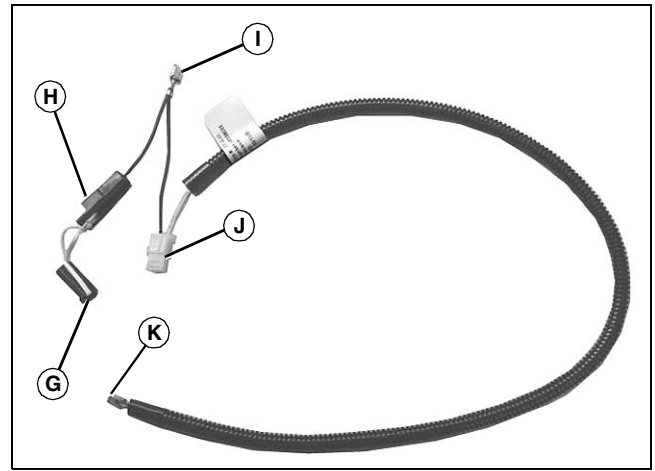
MX37906

2. Remove mounting bolts (A) from fuse block (B).
3. Install wire terminal from light power harness into only empty cavity (C) (in back side of fuse block). Make sure tabs are fully engaged. Install fuse.
4. Install fuse block with mounting bolts.
5. Route wire of secondary harness alongside main harness leading to key switch.



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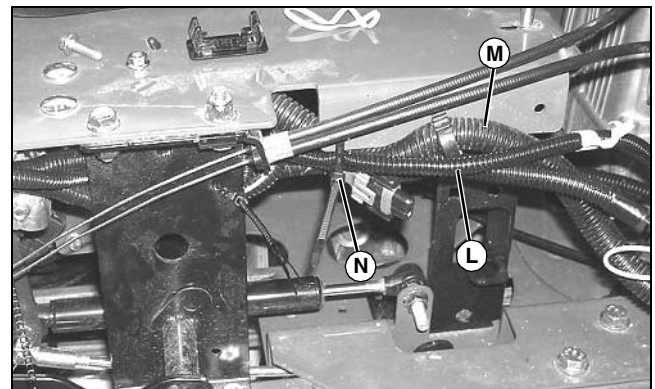
6. Remove wiring plug (D) from key switch (E).
7. Using small flat screwdriver, depress locking tab on ground wire terminal from location (F). Remove ground wire terminal from plug.
8. Re-set locking tabs on ground wire terminal.



MX41174

Picture Note: (J) connects to headlight harness. (K) connects into fuse block.

9. Remove single plug (G) from light power harness (temporarily attached with elastic band). Insert ground wire terminal (removed in step 7) into plug and connect to mating single plug (H) on light power harness.
10. Plug remaining single terminal (I) from light power harness into key switch plug in same position as the original wire was first removed.

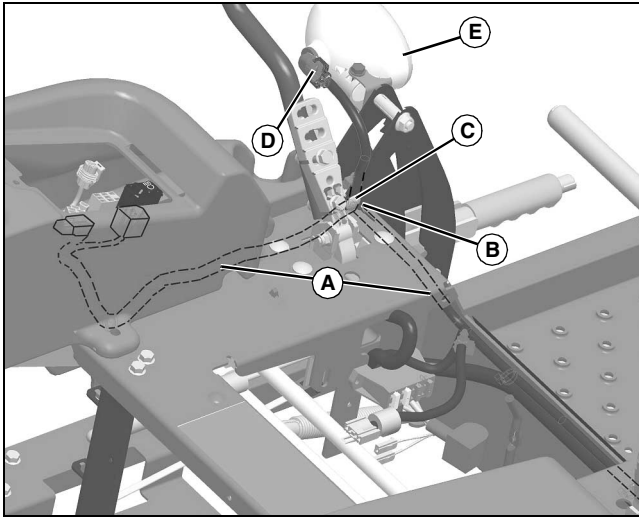


MX40972

11. Making sure excess wiring harnesses are clear of all moving parts, secure light power harness (L) to main harness (M) and machine frame as shown with tie straps (N).

Install Headlight Wiring Harness and Right Side Light Assembly

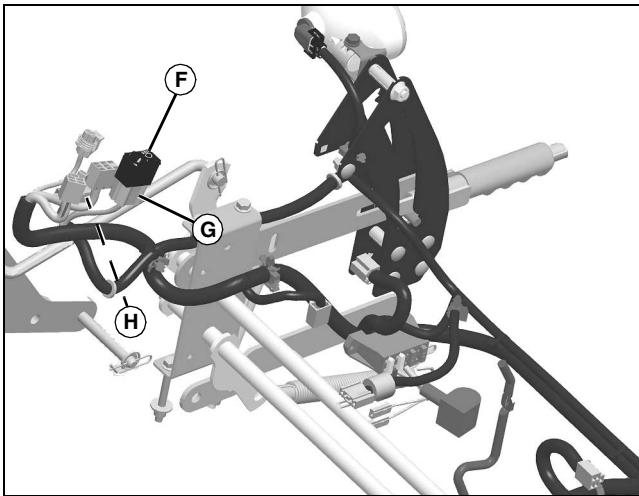
NOTE: Cut tie straps on headlight wiring harness before installing the harness.



MX37473

Picture Note: Seat panel, and seat removed for clarity.

1. Lay out wiring harness (A), as shown, from instrument panel, routing through frame at location (B). Use tie strap to secure headlight harness to main harness at rear main harness clip. Make sure harness is clear of brake lever and any other moving parts.
2. Remove lock nut from carriage bolt (C) on parking brake bracket. Install P-clip onto harness and onto carriage bolt on inside of parking brake bracket, and install locknut. Route away from moving parts, and tighten locknut.
3. Connect harness connector (D) onto left light assembly (E).

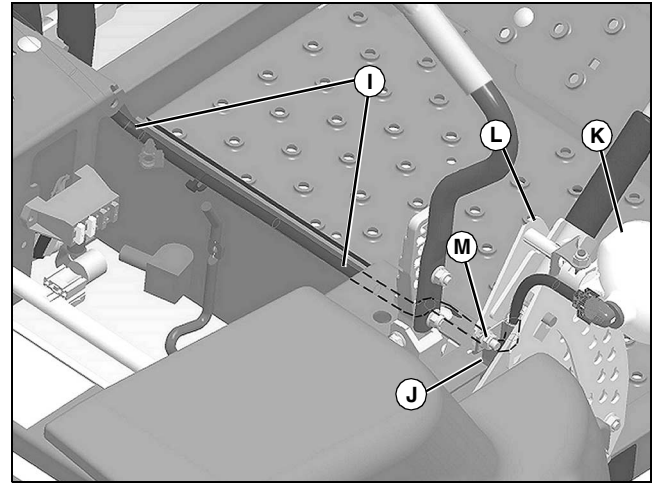


MX37474

Picture Note: Left panel, seat panel, and seat removed for clarity.

4. Remove switch plug, and from under left panel, install light switch (F). Connect end (G) onto switch.

5. Under left panel, connect end (H) to main harness connector or light power harness connector.



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6. Install remaining part of harness (I) to right side and through hole (J) in frame. Secure to main harness with tie straps on either side of battery.
7. Install right light assembly (K) onto top carriage bolt on mower deck lift bracket (L), using the same steps used for installing the left side.
8. Remove lock nut (M) from carriage bolt on mower deck lift bracket. Install P-clip onto harness and onto carriage bolt on inside of mower deck lift bracket and install locknut. Route away from moving parts, and tighten locknut.
9. Connect battery and check operation of lights. Adjust lights, if necessary.