



A-11641 LIGHTS KIT, 12VDC

Note: This kit requires a minimum current draw of 9 amps at 12 VDC. Do not exceed the machine's available alternator capacity. If you do not know how much current is available, contact your dealer or manufacturer of this machine, prior to installing this kit.

Before you begin, read these instructions and identify components. Please retain these instructions for future reference and parts ordering information.

Lights may be mounted on front or rear of "EZ" version cab kits. This kit is for use with or without headliner Kit A-11638, which includes a main feed breaker and relay wire harness, 10-slot fuse block, accessories wire harness and switches wire harness.

Kit Components:	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	1-46453	LIGHT MOUNT BRACKET, LH
	2	1	1-46454	LIGHT MOUNT BRACKET, RH
	3	2	3-18315	LIGHT, FLOOD BEAM, 55 WATT HALOGEN
	4	1	3-18189	ROCKER SWITCH BODY
	5	1	3-18514	ROCKER SWITCH ACTUATOR
	6	2	3-18503	5/16" X 3/4" LONG BUTTON HEAD BOLT
	7	4	3-17111	5/16" FLANGE NUT
	8	2	3-10013	5/16" x 2-1/4" LONG HEX HEAD BOLT
	9	2	3-14441	5/8" WIRE GROMMET, SNAP TYPE
	10	1	05-10843	MOUNTING INSTRUCTIONS, A-11641
	11	1	3-16057	FUSE, 10 AMP ATO/ATC BLADE TYPE
	12	4	3-16074	MALE TERMINAL BLADE CONNECTOR
	13	2	3-19250	M10 X 16MM LONG BUTTON HEAD BOLT
	14	2	3-19053	M10 FLANGED NUT
	15	5	3-16629	NYLON TIE, 7.50" BLACK
	16	5	3-17517	NYLON TIE MOUNT PAD, PSA BACK

WIRE COMPONENTS 17-27 ARE FOR USE WITHOUT HEADLINER

17	1	3-18231	FUSE HOLDER
18	1	3-10672	BUTT SPLICE 14 GA
19	1	3-18519	FUSE HOLDER COVER
20	2	3-10669	TERMINAL RING 5/16"
21	1	3-10345	WIRE, BLACK, 14GA X 11 FT
22	1	3-10364	WIRE, RED, 14GA X 14 FT
23	2	3-18253	TEE-TAP 14GA BLUE
24	2	3-16074	TERMINAL BLADE CONNECTOR, 14GA MALE
25	1	3-18859	TOGGLE SWITCH, ON-OFF SPST
26	6	3-10670	TERMINAL BLADE CONNECTOR, 14GA FEMALE
27	1	3-10704	WIRE LOOM, .350" X 9 FT

Installation Steps:

1. If a headliner is already installed, remove the (4) 5/16" x 2.50" button head bolts that secure the headliner to the cab frame. Allow headliner to tip down and rotate rearward as shown in figure 1.
2. Using a wire crimping tool, crimp male terminal blade connectors onto each light wires.

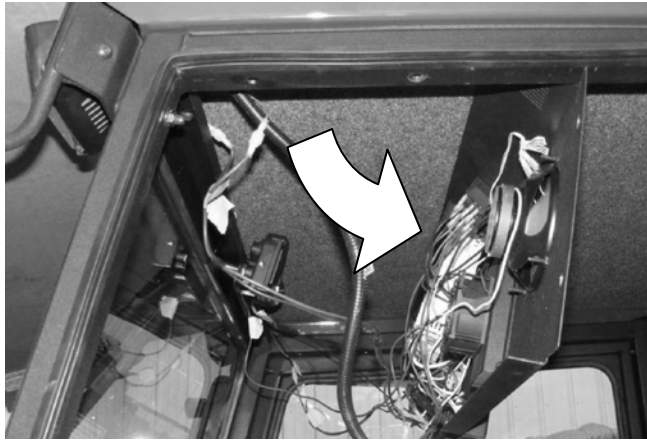


Figure 1



Figure 2

For mounting lights on front of cab, complete steps 3-17; For mounting lights on rear of cab, follow steps 18-29):

3. For front of cab mounting, secure LH light to LH mount bracket using (1) M10 x 16mm long button head bolt and (1) M10 flange nut. The stainless steel M10 x 25mm hex bolt, M10 lock washer and M10 standard nut, supplied with light, will not be used. See figure 3.
4. Remove 3/8" hole plug and 5/8" hole plug from LH front window panel and roof panel. See figure 3.
5. Remove (1) 5/16" x 2.00" long button head bolt from location as shown in figure 3.
6. Secure light and bracket to (LH) front panel using (1) 5/16" x 2-1/4" long hex head bolt, (1) 5/16" x 3/4" long button head bolt and (2) 5/16" flange nuts. (Note: If mirror kit A-11643 is to be installed, use the 5/16" x 2-1/2" long bolts supplied with mirror kit instead of 2-1/4" long bolts).
7. Repeat steps 3-6 using RH mount bracket for RH side.
8. Install (1) 5/8" snap grommet into each 5/8" hole on each side of roof panel as shown in Figure 3.
9. From the front outside of cab, route each front light's wires through the light's mount bracket slot, through the 5/8" grommets, to front roof area as shown in figure 2.

Front light kit installation wiring with headliner, follow steps 10-17 (For cabs without headliners, Skip to step 30):

10. Select an empty location in headliner for front lights rocker switch and remove rectangular hole plug.
11. Locate switch to accessories wire harness 3-19281, supplied with headliner kit. Connect LH front light harness end with LH **brown** wire to LH front light's red wire. Connect front LH light harness end with black wire to front LH light's black wire. Repeat step for RH light connection.
12. Connect switch end of wire harness (3-19281). Connect **brown** wires from front lights to rocker switch terminal 3. See figure 5. Connect the black wire from front lights to a 1/4" ground stud.
13. Remove fuse block access cover from headliner and select an empty fuse terminal location.
14. Locate fuse block to switches wire harness 3-19282, supplied with headliner kit. Connect **brown** wire of harness from rocker switch terminal 2 to the empty fuse block location. See figure 5.
15. Connect rocker switch terminal 7 to a 1/4" ground stud. See figure 5.
16. Install rocker switch and switch actuator into headliner.
17. Install 10 amp fuse into fuse block location selected in Step 13.

Rear Light Kit Installation (Steps 18-29) See Figure 4:

18. For rear of cab mounting, light mount brackets will not be used.
19. Remove (2) 3/8" hole plugs and (2) 5/8" hole plugs from rear surface of roof panel.
20. Install (2) 5/8" grommets into 5/8" holes of roof panel.
21. Mount each light to the 3/8" holes in rear roof panel using (1) M10 x 16mm button head bolt and (1) M10 flange nut. The M10 x 25mm hex bolt, M10 lock washer and M10 nut, supplied with light, will not be used.

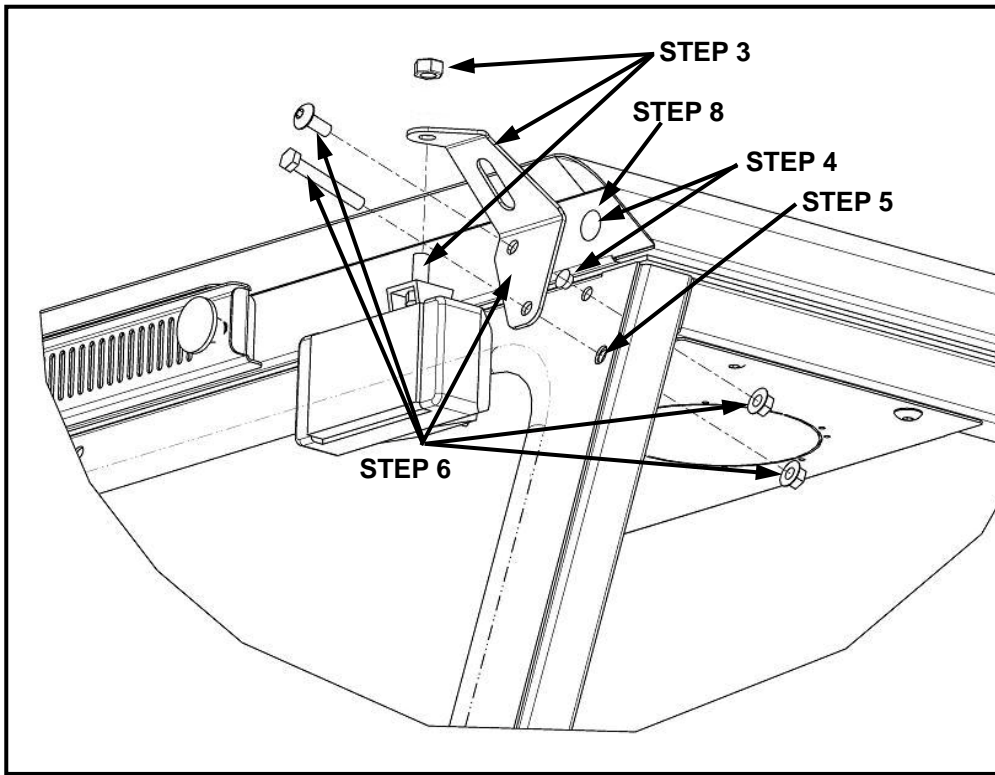


Figure 3

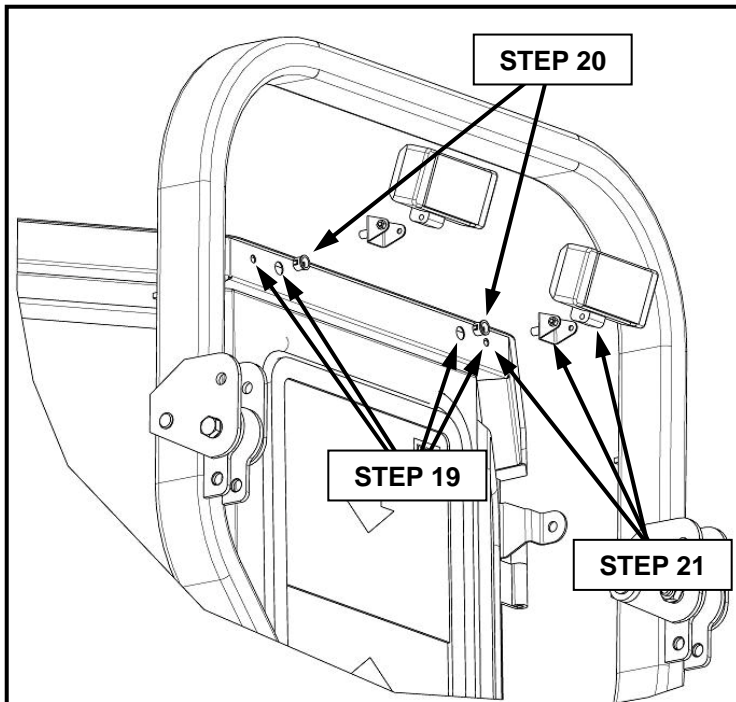


Figure 4

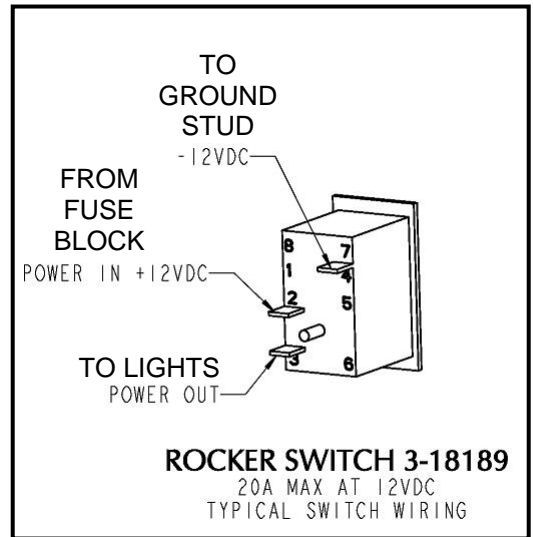


Figure 5

Rear light kit installation wiring with headliner, follow steps 22-29 (For cabs without headliners, Skip to step 30);

22. Select an empty location in headliner for rear lights rocker switch and remove rectangular hole plug.
23. Locate switch to accessories wire harness 3-19281, supplied with headliner kit. Connect LH rear light harness end with LH **yellow** wire to LH light's red wire. Connect LH light harness end with black wire to LH light's black wire. Repeat step for RH light connection.
24. Connect switch end of wire harness (3-19281) to switch. Connect **yellow** wire from lights to rocker switch terminal 3. See figure 5. Connect the black wire from lights to a ¼" ground stud.
25. Remove fuse block access cover from headliner and select an empty fuse terminal location.
26. Locate fuse block to switches wire harness 3-19282, supplied with headliner kit. Connect **yellow** wire of harness from rocker switch terminal 2 to the empty fuse block location. See figure 5.
27. Connect rocker switch terminal 7 to a ¼" ground stud. See figure 5.
28. Install rocker switch and switch actuator into headliner.
29. Install 10 amp fuse into fuse block location selected in Step 25.

Light kit installation wiring without headliner, follow steps 30-40 (See figure 6).

30. Cut a 24" length of red wire and a 24" length of black wire from bulk wire supplied. Attach (2) female terminal blade connectors (Item 26) to each end of both 24" red and black wires.
31. Attach (1) male terminal blade connector to one end of remaining bulk lengths of red and black wires.
32. Using the blue Tee Tap Splice, connect red and black wires to corresponding red and black 24" long wires.
33. Select a location to install either the toggle switch or the rocker switch. If the toggle switch is to be used, ½" diameter hole is required. If the rectangular rocker switch is to be used, a .840" x 1.400" rectangular hole is required.
34. Route the red wire from the lights to the switch. Cut red wire and install female terminal blade connectors to red wires and connect to switch. Insert switch into hole.
35. Note: Wires routing to battery location may be routed down the inside of either front cab frame tube.
36. Route the remaining end of red wire from switch to battery location. Route the black wire from lights to the battery location.
37. Attach a 5/16" terminal ring to black wire. Black wire may need to be shortened depending on tractor models and brands. Secure to -12V terminal of battery.
38. Connect fuse link (Item 17) to red wire using the blue butt splice connector (Item 18). The red wire may also need to be shortened depending on tractor models and brands.
39. Attach 5/16" terminal ring connector to remaining end of fuse link wire. Secure to +12V terminal of battery.
40. Install 10 amp fuse (Item 11) into fuse holder and attach fuse cover (Item 19) to fuse holder.

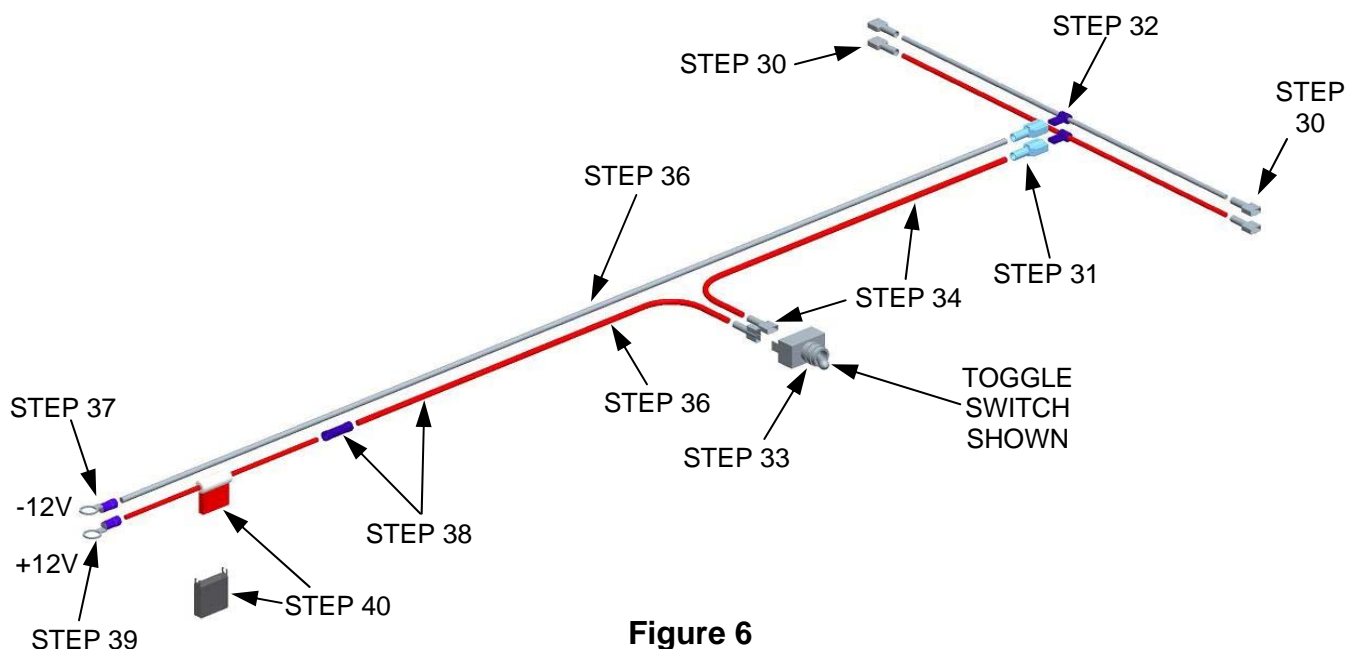


Figure 6
(For use in cabs without headliners, ONLY)

05-10843
February 15, 2010

Completing installation:

41. Turn tractor's ignition key to "On".
42. Turn lights on and off to check proper operation. Check coverage area and adjust lights if needed.
43. Secure loose wires by using wire loom, nylon ties and tie mount pads.
44. Secure headliner to cab frame and fuse block access cover to headliner.

Headliner Note: Refer to drawings 4-15389, 3-19281 and 3-19282 supplied with mounting instructions in Headliner Kit A-11638 for detailed wiring information.

Manufactured by:



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