



# INSTRUCTION BULLETIN

No. 3751  
Machine: 830  
Published: 1-00/02  
System: OPTIONS

**NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in your machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save you the cost of ordering an entire kit.**

*NOTE: Numbers in parenthesis ( ) are reference numbers for parts listed in Bill of Materials.*

Installation Instructions for Kit number 760079

## SYNOPSIS / PROBLEM:

This kit contains the parts needed to install a Night Lighting Kit on the model 830 sweeper. Please follow step-by-step instructions.

**SPECIAL TOOLS / CONSIDERATIONS:** Hand drill, .196 drill bit, .625 drill bit (5/8 in.)  
(Estimated Time to complete: 2 hours)

## PREPARATION:

(Refer to FIG. 1 and 2)

**FOR SAFETY: Before leaving or servicing machine, stop on level surface and set parking brake. Then turn off machine and remove key.**

1. Disconnect battery cables from machine.



**WARNING: Always disconnect battery cables from machine before working on electrical components.**

2. Layout and drill the light mount holes in the top of the machine cab. (Refer to Fig. 1)

\* **NOTE: The wire harness is located in this area. Be careful not to drill into the harness.**

3. Remove the vacuum fan motor guard from the back of the machine debris hopper. (Refer to Fig. 2)

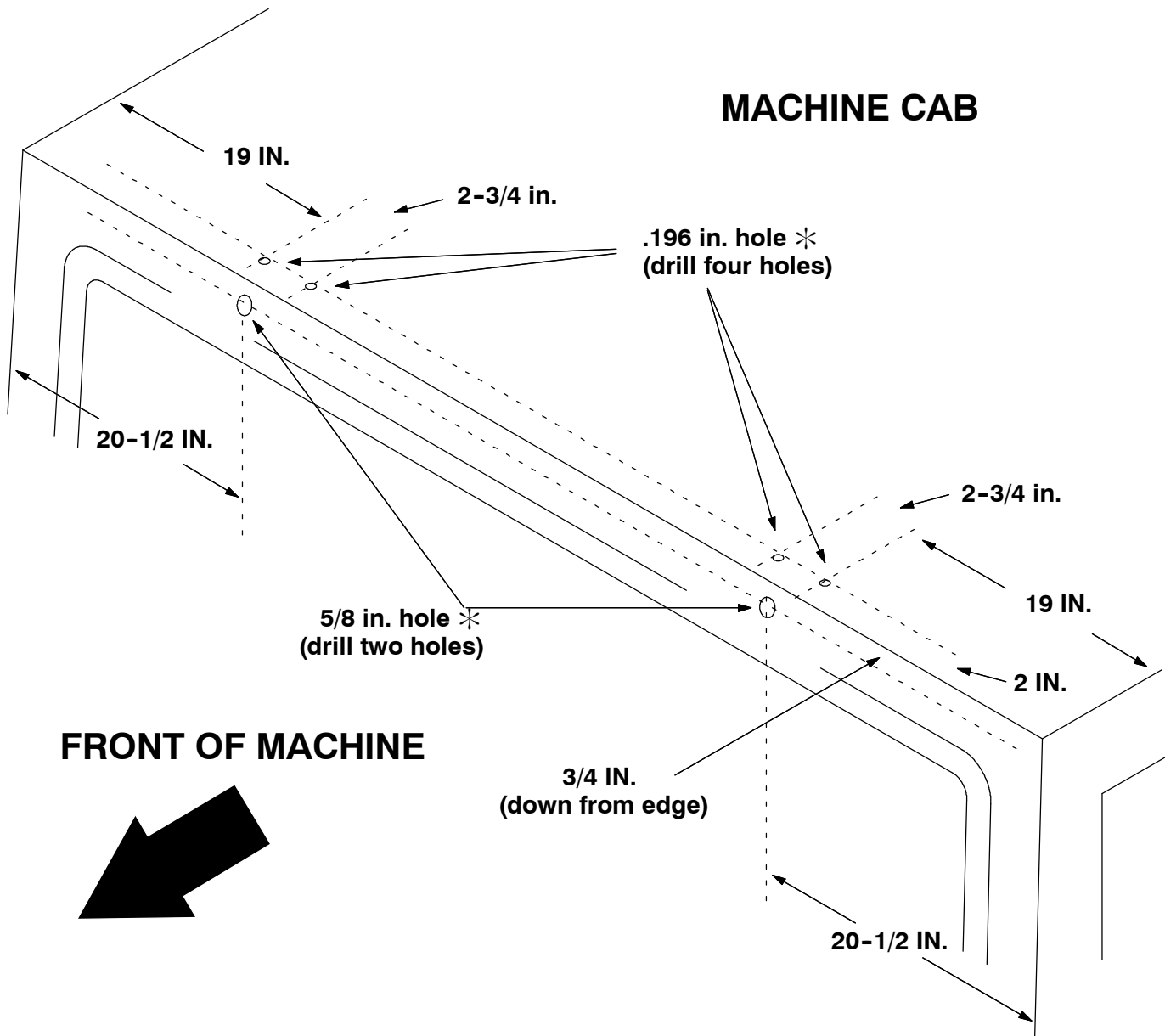
## INSTALLATION OF FRONT LIGHTS:

(Refer to FIG. 1 and 3)

1. Install the two grommets (2) in the larger 5/8 in. holes drilled in the top face of the machine cab. (Refer to Fig. 1)
2. Install two lights (6) on two mount brackets (7). (Refer to Fig. 3)
3. Install the two light assemblies on the top of the cab. Use the four holes drilled earlier and four thread forming hex screws (9) and four M8 fender washers (4). Tighten firmly, but, do not over tighten or strip the threads. (Refer to Fig. 1 and 3)

*NOTE: Use a small amount of sealant or RTV under the washers to seal the cab from water leakage. (Refer to Fig. 3)*

4. Feed the light wires through the rubber grommets and into the roof of the cab.  
(Refer to Fig. 3)
5. Go inside the cab and pull the head liner back in the area of the light wires.
6. Locate the **61B** and **61C brown** wires in the machine electrical harness in the area of the pulled back head liner. Connect the positive wire from the sweeping lights to these wires.



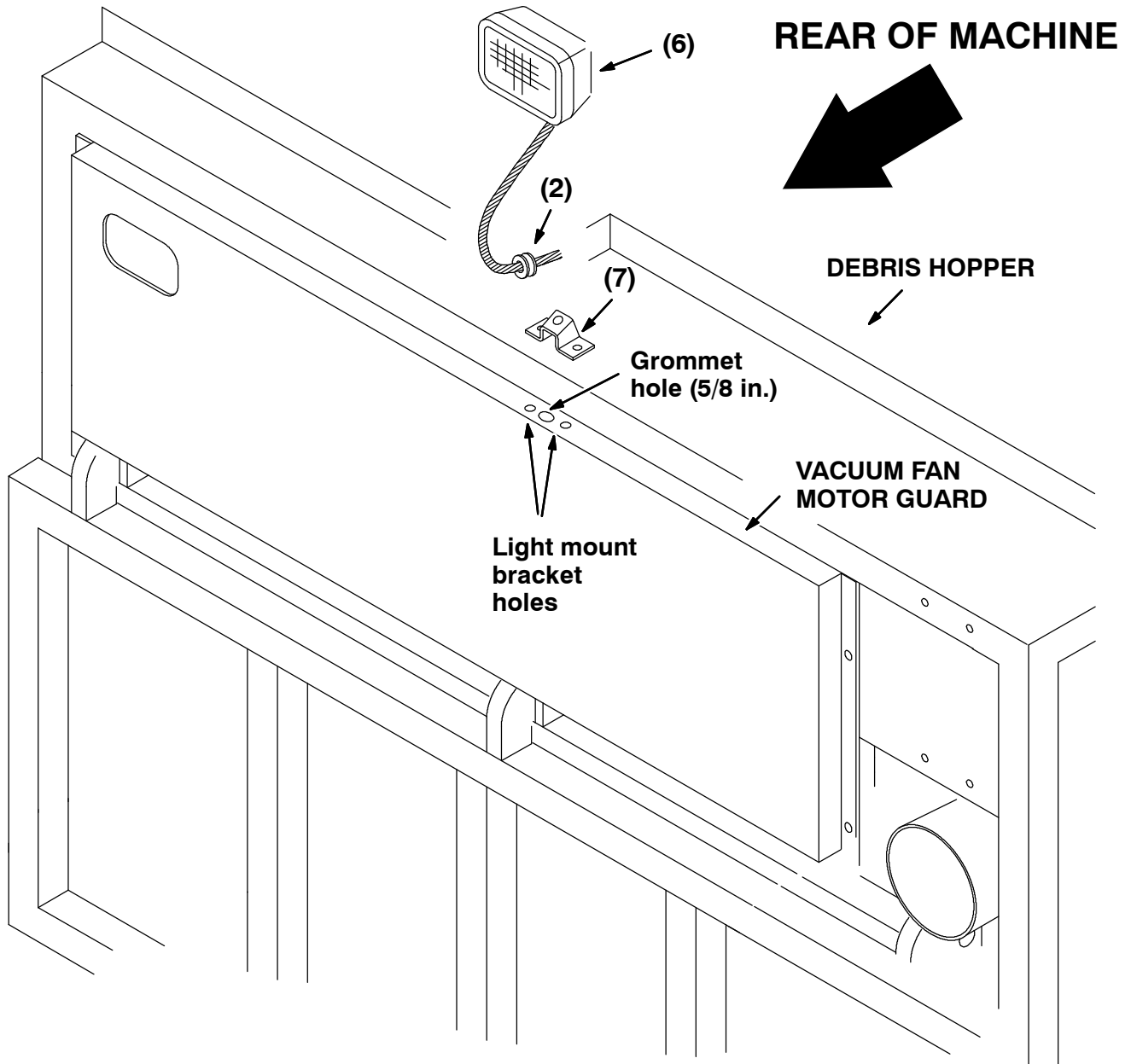
**FIG. 1 - Front Light Mount Hole Locations**

7. Locate the **13QQQ** and **13PPP black** wires in the machine electrical harness in the area of the pulled back head liner. Connect the negative wire from the sweeping lights to these wires.
8. Reinstall the head liner over the wires.

## INSTALLATION OF REAR LIGHT:

(Refer to FIG. 2)

1. Install a grommet (2) in the larger 5/8 in. hole in the top edge of the vacuum fan motor guard. (Refer to Fig. 2)
2. Install the light (6) on the mount bracket (7). (Refer to Fig. 2)
3. Install the light assembly on the top edge of the vacuum fan motor guard . Use the two existing holes. Use two M8 hex screws (3) and two M8 nyloc nuts (1). Tighten to 18 - 24 Nm (15 - 20 ft lb). (Refer to Fig. 2)



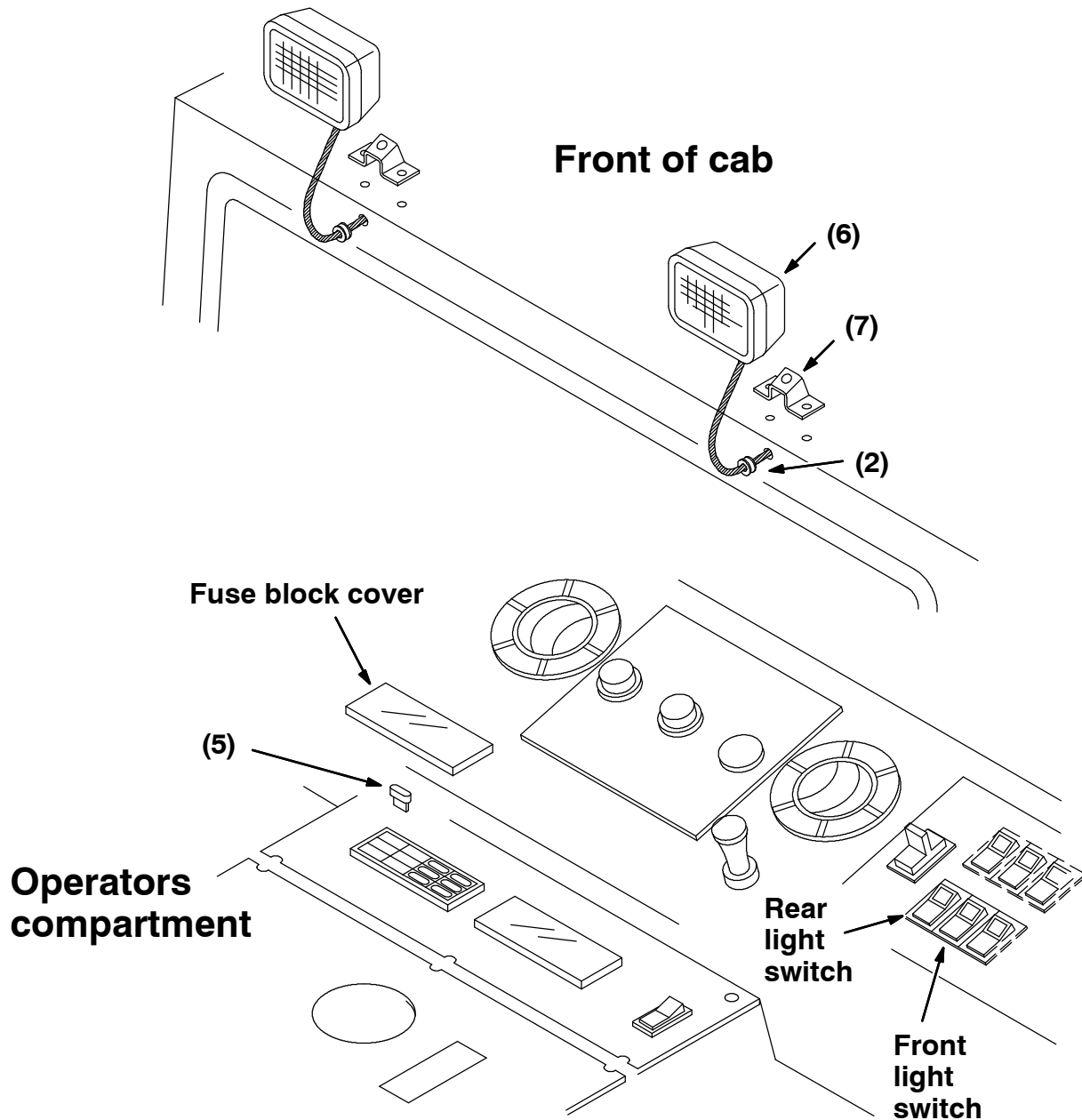
**FIG. 2 - Rear Light Mount Holes**

4. Feed the light wire through the rubber grommet. (Refer to Fig. 2)
5. Locate the **56B green** and **13NNN black** wires in the machine electrical harness in the area of the vacuum fans. Plug the rear sweeping light wires into these wires.
6. Reinstall the vacuum fan motor guard on the back of the machine debris hopper. (Refer to Fig. 2)

## TO INSTALL SWITCHES IN CAB:

(Refer to FIG. 3)

1. Go in the cab and remove the plugs in the switch panel where the front and rear light switches go. (Refer to Fig. 3)
2. Install the two SPST switches (8) in the switch panel. The rear light switch goes in the left hole and the front light switch goes in the middle hole. (Refer to Fig. 3)
3. The wires and connectors are tied up to the main harness under the dash panel. Locate the wires, cut them free of the main harness, connect them to the switches. (Refer to Fig. 3)



**FIG. 3 - Operators Compartment And Switches**

4. Remove the fuse block cover. Install the 20 amp fuse (5) in circuit #21. Reinstall the cover. (Refer to Fig. 3)
5. Reconnect the battery. Turn on the switches and check the lights for proper operation. (Refer to Fig. 3)

**BILL OF MATERIALS FOR NIGHT LIGHTING KIT 760079**

<b>Ref.</b>	<b>TENNANT Part No.</b>	<b>Description</b>	<b>Qty.</b>
1	08709	M8 nyloc nut	2
2	10632-11	Grommet, .38 ID	3
3	39277	M8 hex screw, 25mm	2
4	39890	M8 flat washer, fender	6
5	762515	20 amp fuse	1
6	762568	Halogen flood light	3
7	762572	Bracket, night sweeping light	3
8	768612	Switch, assembly SPST	2
9	12459	M6 hex screw	4

TENNANT COMPANY  
P. O. Box 1452  
Minneapolis, MN 55440-1452