



INSTRUCTION BULLETIN

No. 340630
Machine: Sentinel
Published: 07-2005
Rev. 00

NOTE: DO NOT DISCARD the Parts List from the Instruction Bulletin. Place the Parts List in the appropriate place in the machine manual for future reference. Retaining the Parts List will make it easier to reorder individual parts and will save 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 770169**

DESCRIPTION:

This kit contains the parts needed to install two amber strobe lights on the Sentinel sweeper.
Please follow step-by-step instructions.

SPECIAL TOOLS / CONSIDERATIONS: 7/8" hole saw

(Estimated time to complete: 1 hour)

PREPARATION:

1. Park the machine on a clean level surface.
2. Turn off the machine, remove the key, and set the parking brake.

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

3. Disconnect the battery cables from the batteries.



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

INSTALLATION:

1. Remove the cab dome light.
2. Locate the two dimples (slight indentations) near the center of the roof of the cab roof and cut a 7/8" hole in the rear most dimple.
3. Remove the lenses from the bases of both lamp assemblies (1).
4. Use a 1/4" drill bit to widen the mounting holes in the bottom of each lamp assembly base (1).
5. Center the base of one lamp assembly (1) over the 7/8" hole and orient the lens release button straight to rear of the machine. Refer to Fig. 1.
6. Rotate the base of the lamp assembly (1) approximately 10° counterclockwise and mark and drill three 13/64" mounting holes into the cab. Refer to Fig. 1.
7. Insert a grommet (3) into the 7/8" hole. Refer to Fig. 1.
8. Crimp a terminal (7) and (8) onto the wires from the lamp assembly (1). Refer to Fig. 7 and the 81A/GRN wire and 13M/BLK wire on the main wire harness for locations of terminals (7) and (8).
9. Route the 81A/GRN wire and 13M/BLK wire from the main wire harness up through the grommet (3) and connect both wires to the lamp assembly (1). Refer to Fig. 7.
10. Use three hex screws (4) to mount the base of the lamp assembly (1) to the cab. Refer to Fig. 1.
11. Reinstall the lens onto base of the lamp assembly (1). Refer to Fig. 1.
12. Position the light guard (2) over the lamp assembly (1) and use light guard as a template to mark and drill three 13/64" holes into the cab. Refer to Fig. 1.
13. Use three hex screws (4) and three steel washers and three rubber washers (included with the light guard assembly) to mount the light guard (2) to the cab. Refer to Fig. 1.
14. Reinstall the cab dome light.

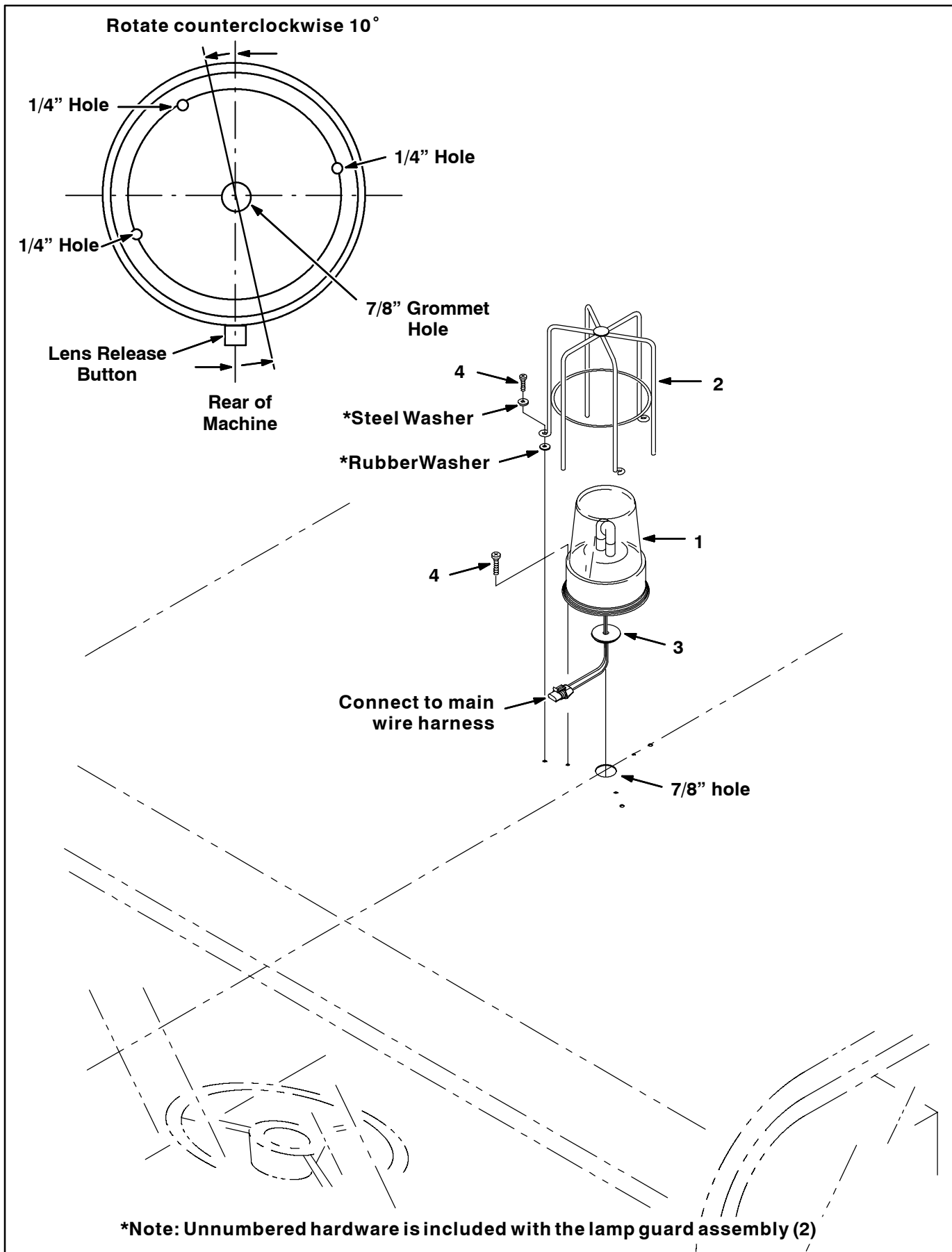


FIG. 1-Cab Strobe Light Installation

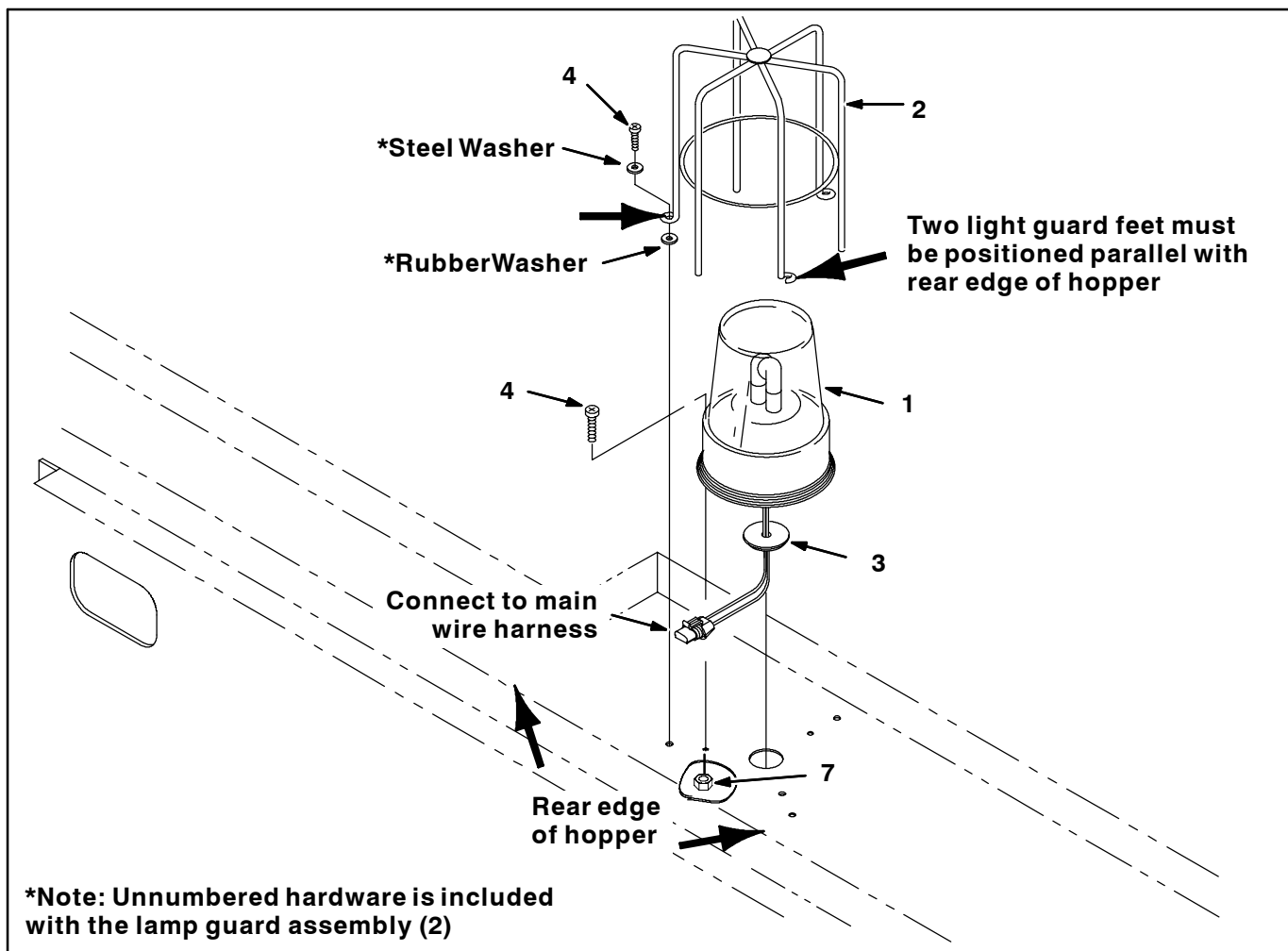


FIG. 2-Hopper Strobe Light Installation

15. Insert a grommet (3) into the existing hole already drilled into the hopper. Refer to Fig. 2.
16. Crimp a terminal (7) and (8) onto the wires from the lamp assembly (1). Refer to Fig. 7 and the terminals on the 81D/GRN wire and 13EG/BLK wire on the main wire harness for locations of terminals (7) and (8).
17. Route the 81D/GRN wire and 13EG/BLK wire from the main wire harness up through the grommet (3) and connect both wires to the lamp assembly (1). Refer to Fig. 7.
18. Use three hex screws (4) and three hex nuts (7) to mount the base of the lamp assembly (1) to the hopper. Use holes already drilled into hopper to mount lamp assembly. Refer to Fig. 2.
19. Reinstall the lens onto base of the lamp assembly (1) mounted to the hopper. Refer to Fig. 2.
20. Position the light guard (2) over the lamp assembly (1) so two of the mounting feet are parallel with the rear edge of the hopper. Use light guard as a template to mark and drill three 13/64" holes into the hopper. Refer to Fig. 2.
21. Use three hex screws (4) and three steel washers and three rubber washers (included with the light guard assembly) to mount the light guard (2) to the hopper. Refer to Fig. 2.
22. Remove the upper switch plate/switches from the overhead console. Refer to Fig. 3.

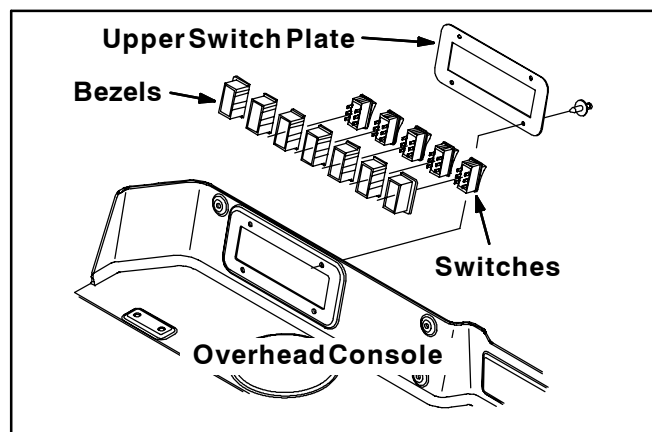


FIG. 3

NOTE: Do not remove switches or bezels from the upper switch plate cover. Do not be concerned with damaging the blank switch cover when removing it from the bezel since the blank switch cover is discarded after it is removed.

23. Remove the next blank switch cover from the bezel attached to the upper switch plate. Refer to Fig 4. Push down on the switch blank cover tabs while pushing the switch blank cover out from the bezel. Discard the switch blank cover. Refer to Fig. 5.



FIG. 4

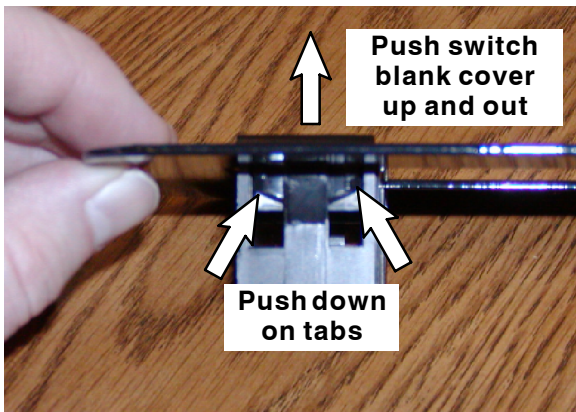


FIG. 5

24. Install the rocker switch (5) into the open bezel in the upper switch plate. Refer to Fig. 5 and Fig. 6.



FIG. 6

25. Attach the strobe light connector on the wire harness to the rocker switch (5). Refer to labels on the wire harness and Fig. 6.
26. Reinstall the upper switch plate cover into the overhead console. Refer to Fig. 3.
27. Install the beacon label (6) onto the rocker switch (5). Refer to Fig. 6.
28. Reconnect the battery cables to the batteries.
29. Test the strobe lights to ensure they operate.

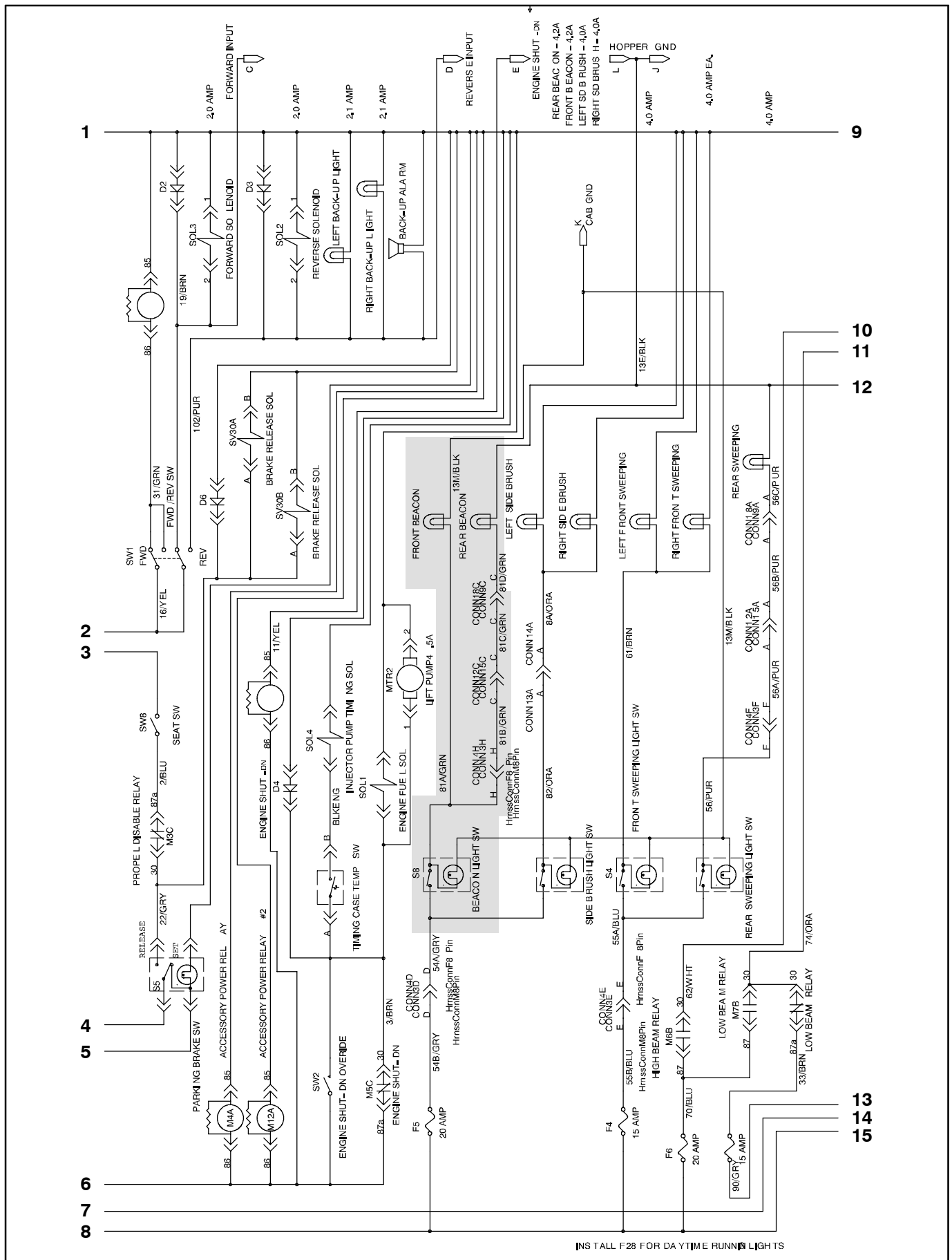


FIG. 7

Bill of Materials for Light Kit, Strobe, Amb, CI [Sentinel]-770169

	Ref.	Tennant Part No.	Description	Qty.
▽		770169	Light Kit, Strobe, Amb, CI [Sentinel]	1
▲	1	396440	Light Assy, Strobe, Amb	2
▲	2	768604	Guard, Light, Rotating	2
▲	3	10632-2	Grommet, Rbr, 0.62ID, F/0.9H, .12Matl	2
▲	4	12459	Screw, Hex, M6 X 1.0 X 20, FMG	12
▲	5	762522	Switch, Rocker, 28VDC 15A SPST On/Off	1
▲	6	768810	Label Set, Switches	1
▲	7	08708	Nut, Hex, Lock, M6 X 1.0, NL	3
▲	8	45223	Terminal, QDC [.25M, INSF, 14]	2
▲	9	45224	Terminal, QDC [.25F, INSF, 14]	2

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