

Annunciator/Light Bar

P/N: 57-A550-59

(For Use with Model 550 Engine Saver & 565 Engine Controller)



INSTALLATION - OPERATION MANUAL



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INTRODUCTION

The Model 550 Engine Saver and the Model 565 Engine Controller (with embedded Engine Saver) have the capability of remote status and alarm indication by connection to a remote annunciator panel. For increased alarm management capability, a new improved remote annunciator panel, the “Light Bar,” P/N 57-A550-59 is now available for industrial use. This unit features wide-angle visibility, auto dimming, lamp test, audible alarm operation in several modes and reduced panel height. This design is particularly well suited for heavy equipment applications where engine shutdown is used and the first alarm must be exclusively displayed.

SUMMARY OF FEATURES

- **Exclusive-trip or multi-trip operation**
- **Auto-dimming of *Power* and *Enabled* lights (switch selectable)**
- **Three AUX channels available; 2 Engine Saver, 1 external**
- **Alarm silence button**
- **Choice of four alarm volume levels (switch selectable)**
- **Alarm reminder after alarm silence (switch selectable)**
- **Lamp test button (tests audible alarm and engine saver lamps also)**
- **High contrast non-reflecting black background**
- **Wide viewing angle**
- **Low profile (only 3 inches of panel height)**
- **Rear dust cover (boots for pushbuttons optional)**
- **Connector features screw terminals**

SEQUENCE OF OPERATION

This description assumes a 57-A550-59 panel connected to an Engine Saver operating in the exclusive-trip mode. The green *Power* and *Enabled* indicators indicate the status of power to the unit and when the Engine Saver is *enabled*, usually by RPM (and sometimes by turbo pressure). These indicators automatically dim to match the ambient light level (if this feature was selected at installation). Alarm lights do not dim at any time.

First Alarm

When the first alarm is received, the appropriate red alarm light comes on and the audible alarm beeps at the volume level selected at installation. If not silenced, beeping continues for the duration of the time set on the shutdown dial in the Engine Saver (1 to 60 seconds), after which time it becomes steady. Note that the shutdown dial acts as a timer as well as a means to shut down the engine. The audible alarm can be silenced at any time by pressing the *Alarm Silence* button. If silenced, the alarm will continue to remind the operator approximately once per minute with a chirp at the same volume level as the beeping (as selected at installation). The alarm light remains on.

Second Alarm

A second alarm is ignored in the exclusive-trip mode. In the multi-trip mode, if a second alarm is received, the second red alarm light comes on and the audible alarm comes on steady (unless the second alarm occurs within the shutdown delay, in which case it beeps). As before, this alarm may also be silenced by pressing the *Alarm Silence* button. If silenced, the alarm will continue to remind the operator approximately once per minute with a chirp. The alarm lights remains on.

Additional Alarms

Additional alarms are indicated only if the multi-trip mode is selected. All alarm lights remain on and the audible alarm continues to signal, either steady, or if silenced, by chirping until the Engine Saver is reset. This clears all alarms (except AUX). The AUX alarm is self-resetting when the alarm condition clears.

Sensor Failure Indication

A sensor or a sensor wiring failure on the Engine Saver results in a flashing indication of the appropriate alarm light accompanied by a chirp approximately once per minute. The first chirp will not be heard until the shutdown delay (1 to 60 sec.) in the Engine Saver expires. This type of alarm is self-resetting if the failure clears by itself. (Cont. Pg. 2)

Resetting the Engine Saver will not clear this type of alarm. If the Engine Saver is reset during a sensor failure alarm, the audible alarm will begin to beep. It can be silenced by pressing the *Alarm Silence* button. It will then revert back to chirping once per minute.

Testing of Lights and Audible Alarm

Pressing the *Test* button at any time tests the lights and the audible alarm, as well as the lights on the front of the Engine Saver or Engine Controller. This test is done in two stages. Pressing the *Test* button for less than two seconds tests the lights only. Holding the *Test* button for more than two seconds tests the audible alarm also. After testing, press the *Alarm Silence* button.

Information without Distraction

This combination of features gets the attention of the busy operator immediately when there is an alarm while allowing him or her to silence the audible portion to keep it from being annoying. A silenced alarm will still be visible and will not be forgotten because of the one-minute periodic reminder chirp. Resetting the Engine Saver always clears all alarms (except sensor failure). However, if the fault that caused the alarm still exists, a new alarm will be generated by the Engine Saver in a short time. The end result is that the operator will always be fully informed of the status of the engine without unnecessary distraction or annoyance.

SELECTION OF FEATURES

The operation of the auto-dimming, reminder and audible alarm features may be modified by setting the DIP switches located on the back side of the circuit board assembly. These switches are set at the time of installation and are accessed by removing the dust cover. Information for setting the switches is located inside of the cover. The auto-dimming feature may be inhibited by turning switch 1 to ON. The POWER and ENABLED lights will then be at full brightness at all times. The reminder feature may be inhibited by turning switch 2 to ON. The reminder chirp will then not be heard after the alarm has been silenced. The volume of the audible alarm has four possible settings using combinations of switches 3 and 4, and audible on AUX, switch 5 (see chart, Fig. 2 on Pg. 3).

INSTALLATION

The installation of the 57-A550-59 Industrial annunciator panel (Light Bar) is straightforward using the 57-A550-53 pre-wired harness. The most difficult part of the installation will often be routing the wiring harnesses through the vehicle or structure. Remove the 14-position plug from the end of the harness before routing. Butt splices may be used. Make sure that all connections are clean, tight and sealed. Support the cable properly with wire ties. Avoid sharp edges and hot objects. Refer to the wiring diagram (Fig. 3, Pg. 3) when re-installing the plug. Optional protective boots for the push button switches are available. Order P/N 57-A550-59A (2 Required).

The 57-A550-59 may be installed in a panel of almost any depth. Cut out the mounting hole in the panel using the full size template provided (Pg. 4). Mounting to the panel is by means of four #6 screws. Do not over tighten the mounting screws as this may damage the plastic surface of the annunciator panel.

Fig. 1 - General Layout of Panel

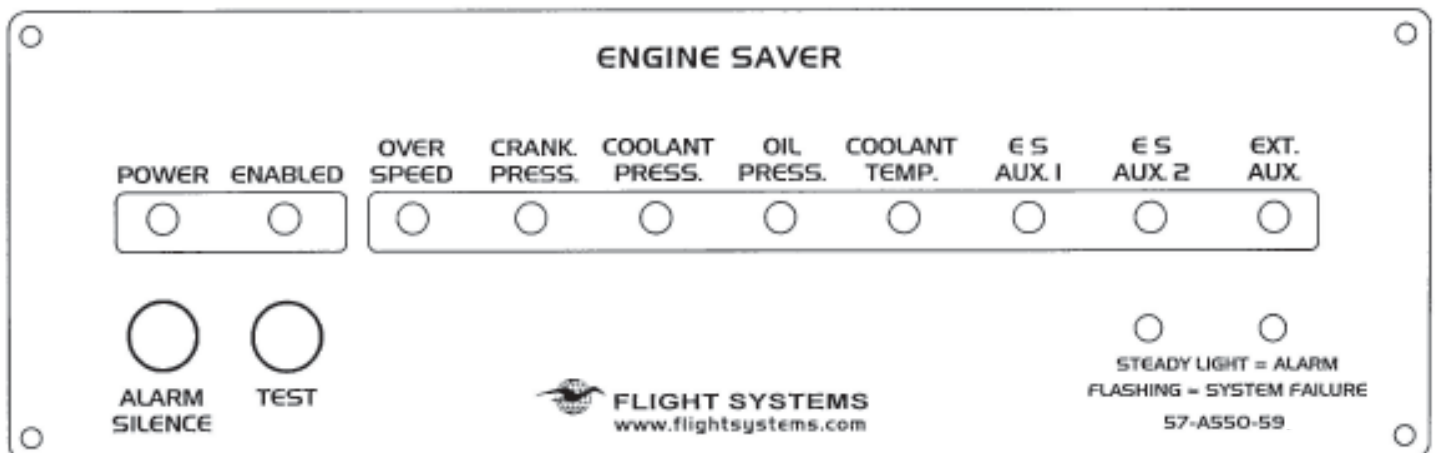


Fig. 2 - Setting Auto-Dimming, Reminder & Audible Alarm Features

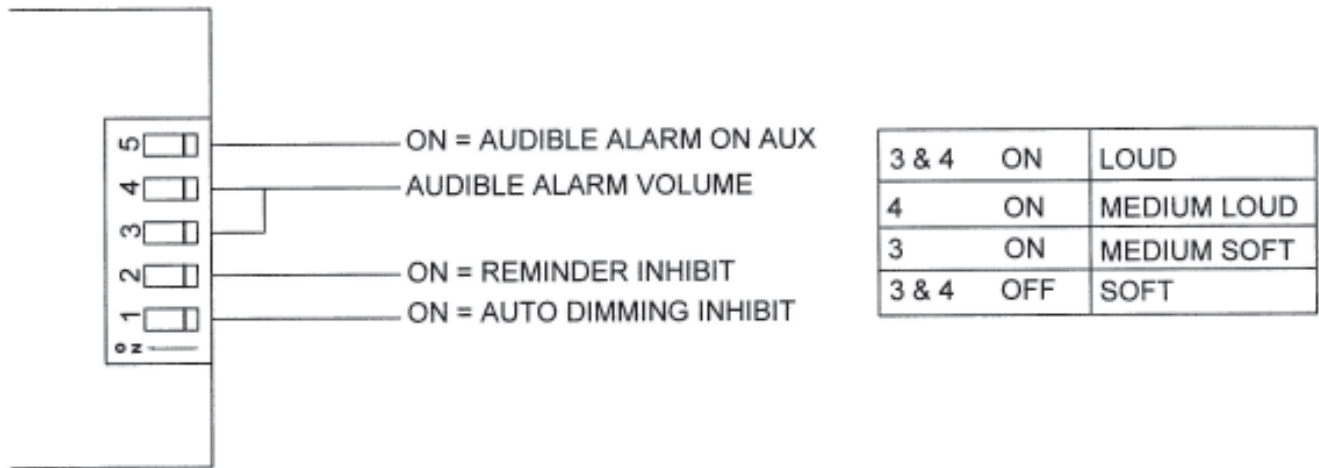
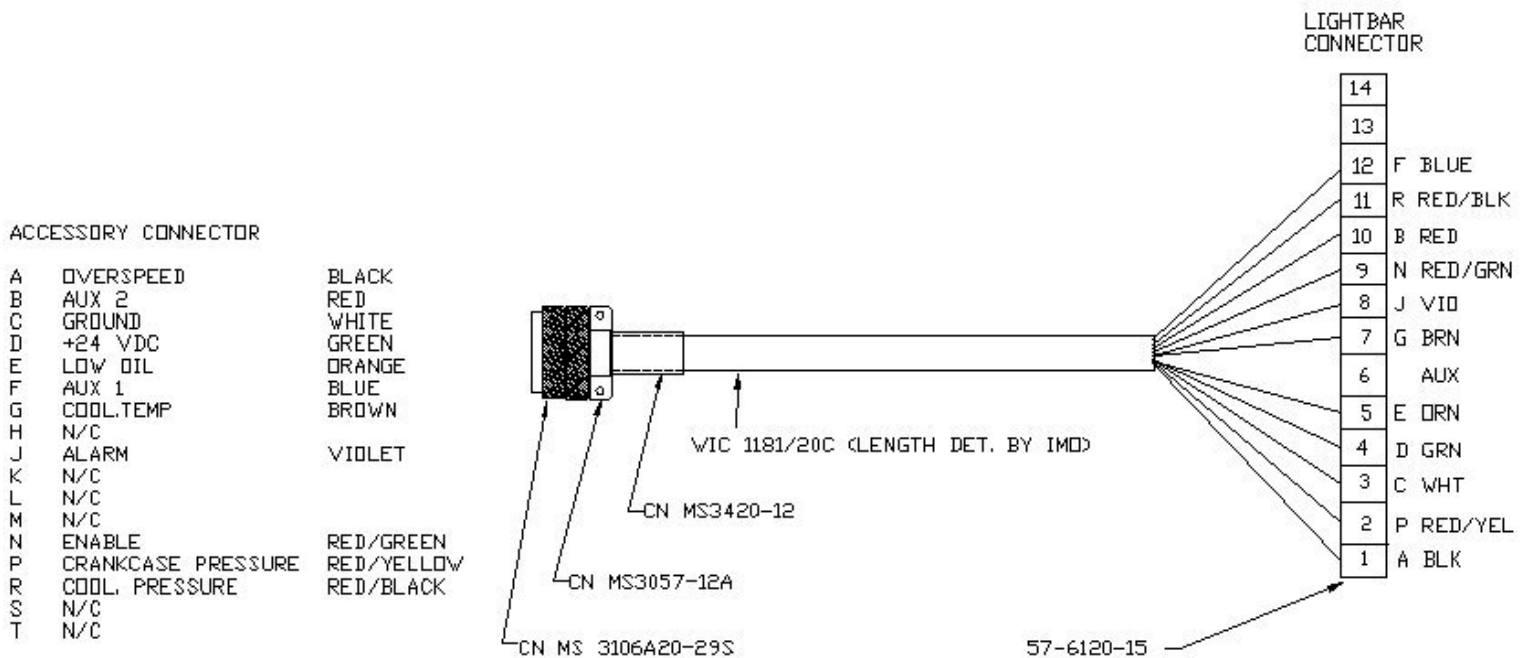


Fig. 3 - Wiring Diagram



Pre-Wired Harness (P/N 57-A550-53) Includes all parts

**Fig. 4 -
Panel Installation Template**

