

**1.0 INTRODUCTION**


**1.1 Scope of manual**

1.1.1 These instructions cover set-up and operation for the CMS Remote Alarm.

1.1.2 This alarm is a potential life saving instrument. To assure its performance it must be properly installed and maintained. Before installing and using the alarm, all personnel involved with the operation and maintenance must read this manual and the CMS Carbon Monoxide Monitor manual.

**1.2 Safety Alerts**

1.2.1 Clemco uses safety alert signal words, based on ANSI Z535.4-1998, to alert the user of a potentially hazardous situation that may be encountered while operating this equipment. ANSI's definitions of the signal words are as follows:

 **This is the safety alert symbol. It is used to alert the user of this equipment of potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.**

**CAUTION**

Caution used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

 **CAUTION**

Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

 **WARNING**

Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

 **DANGER**

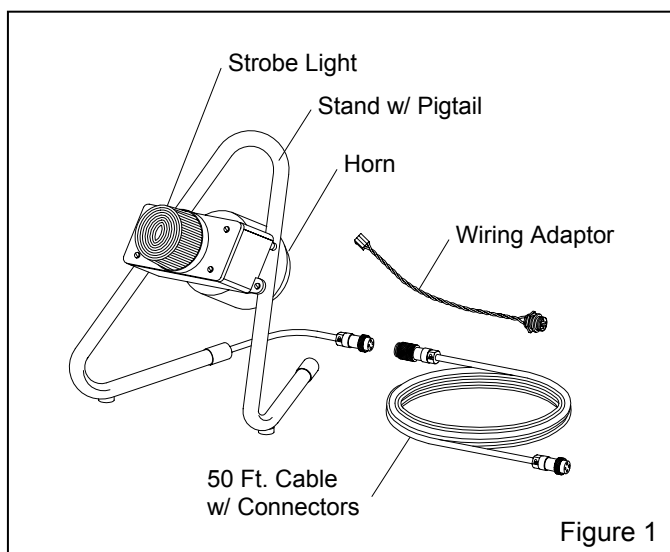
Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**1.3 Description**

1.3.1 The 12 volt DC remote alarm is a high-intensity, red lens strobe light and high decibel horn. Use the remote alarm in high noise areas, or where the CO monitor cannot be placed in a conspicuous location. The alarm does not require an external power source when correctly connected to a CMS monitor. The alarm sounds and the strobe light flashes whenever the CO monitor goes into an alarm condition. Using additional cable, the alarm may be placed up to 150 ft. from the monitor. Consult Clemco Industries Corp. if longer length is required.

**1.4 Components**

1.4.1 The primary components of the remote alarm are shown in Figure 1. The alarm package includes the alarm case with strobe light and horn, stand, 50-ft. cable with connectors, and a wiring adaptor with connectors.



**2.0 SET-UP**

**2.1 Connect Wiring Adaptor To Monitor**

2.1.1 Disconnect all electrical power to the monitor.

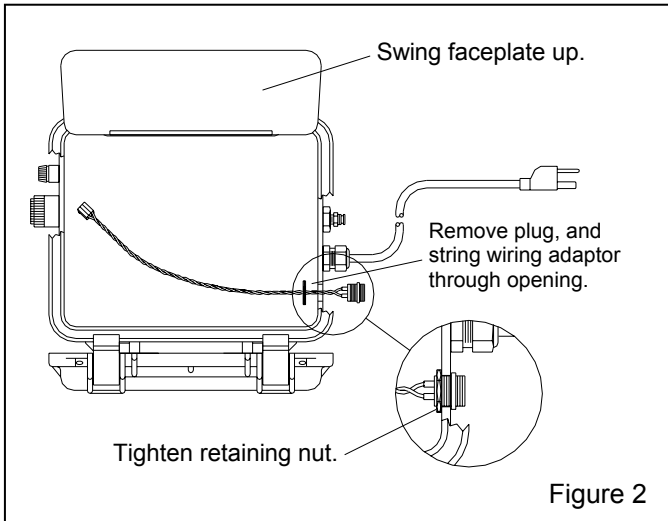
2.1.2 Open the case to access the interior faceplate.

2.1.3 **CMS-1:** Remove the four screws and remove the faceplate, being careful not to disconnect wires or tubing.

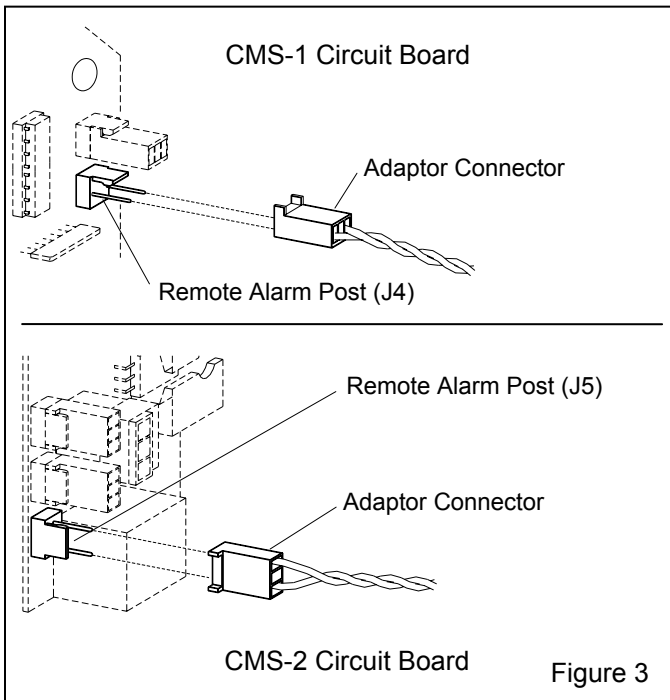
**CMS-2:** Loosen the closing screw located in the center of the lower edge of the faceplate and swing the faceplate up to access the inside of the case.

2.1.2.4 Remove the hole plug. It is located on the bottom of the CMS-1 case, and on the right side of the CMS-2 case. Ref. Figure 2 (CMS-2 is shown).

**2.1.2.5** String the wiring adaptor through the case opening and retaining nut, as shown in Figure 2 (CMS-2 shown), and tighten the nut securely.



**2.1.2.6** Plug the wiring adaptor connector to the unused post (J4 on CMS-1) (J5 on CMS-2) located on the circuit board, as shown in Figure 3.



**3.0 Operation**

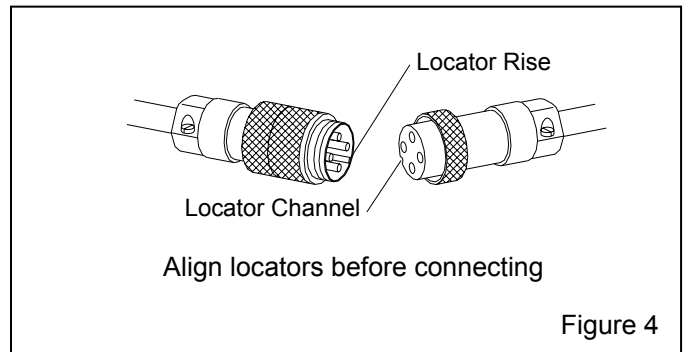
**3.1** The remote alarm does not require any special mounting, and it will operate in any position. The stand may be used free standing or used to hang the alarm in a conspicuous place so any alarm condition will be noticed.

**⚠ WARNING**

The alarm must be in a conspicuous place to ensure that any alarm condition is observed. **DO NOT** mount inside a blast room. The alarm case and cord are not designed to withstand the continual impact of abrasive that takes place inside a blast room. Refer to instructions in the monitor manual for installing auxiliary devices. With auxiliary terminals and a relay, the monitor may be interlocked with other devices, such as the compressor shut-down, to additionally safeguard against an unobserved alarm.

**3.2** Place the alarm in a conspicuous location within cable reach of the monitor. With additional cable alarm may be placed up to 150 ft. from the monitor. Consult Clemco Industries Corp. if longer length is required.

**3.3** Connect the cable to the monitor and to the alarm. Before connecting the cable connectors, make sure they are correctly aligned by lining-up the locators of each connector, as shown in Figure 4. Route the cable to ensure that there will be no contact with ground traffic or high reach equipment.



**3.4** Refer to the monitor owners manual and test the alarm using the same process for testing the monitor's internal alarms.

**4.0 REPLACEMENT PARTS**

Description	Stock No.
Remote alarm kit, complete .....	22909
Strobe Light .....	22984
Horn .....	22985
Wiring adaptor .....	22986
Cable w/ Connectors, 50 ft. ....	22910
Stand assembly with internal wiring .....	22987