CMS REMOTE ALARM

O. M. 22978

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⚠ WARNING

Do not use this equipment until you have READ this MANUAL and YOU UNDERSTAND its contents.

These WARNINGS are included for the health and safety of the operator and those in the immediate vicinity. Failure to read and understand these warnings can result in injury or death.

Electronic files include a preface containing the same important information as in the orange cover.

1.0 INTRODUCTION

1.1 Scope of manual

1.1.1 These instructions cover set-up, operation, and replacement parts 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 applicable carbon monoxide monitor manual noted below.
CMS-1 Carbon Monoxide Monitor .... Manual no. 23301
CMS-2 Carbon Monoxide Monitor .... Manual no. 22925

1.2 Safety Alerts

1.2.1 Clemco uses safety alert signal words, based on ANSI Z535.4-2011, 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 you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

NOTICE

Notice indicates information that is considered important, but not hazard-related, if not avoided, could result in property damage.

⚠ CAUTION

Caution indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

⚠ WARNING

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

⚠DANGER

Danger indicates a hazardous situation that, 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.

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 wire assembly with pin socket and cable connector.
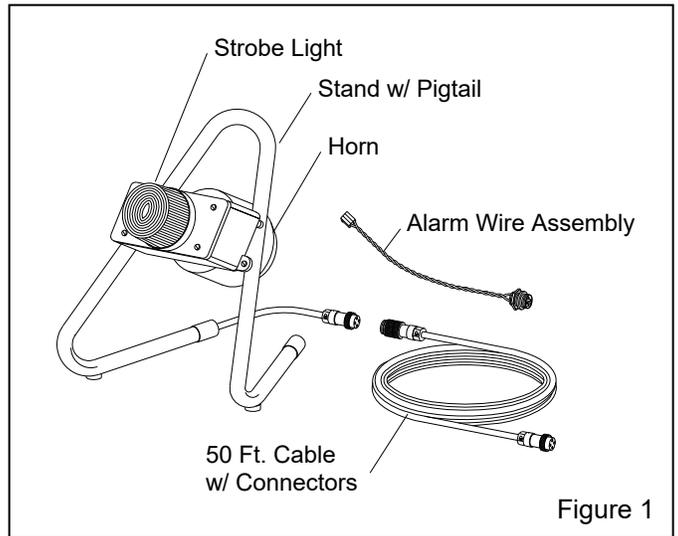

Figure 1

2.0 SET-UP

2.1 Disconnect all electrical power to the monitor.

2.2 Open the case to access the interior faceplate.

2.3 **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.

2.4 Remove the plug from the hole 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 for reference).

2.5 String the plug end of the alarm wire through the case opening and slide the retaining nut onto the wire, as shown in Figure 2. Push the cable connector firmly into the case and tighten the retaining nut to secure.
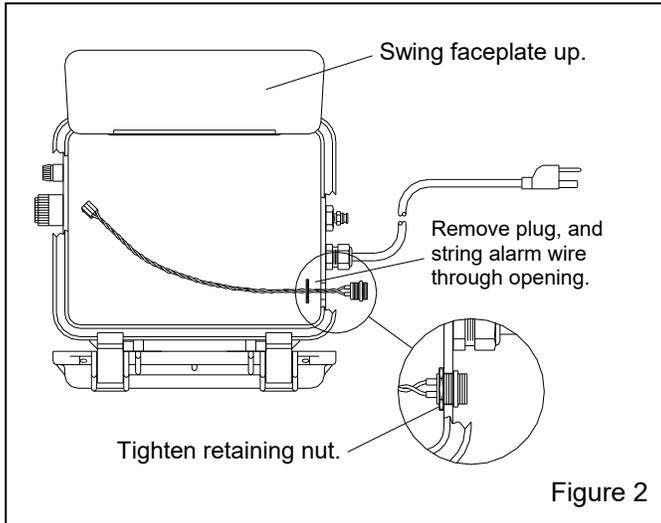

Swing faceplate up.

Remove plug, and string alarm wire through opening.

Tighten retaining nut.

Figure 2

2.6 Plug the alarm-wire socket onto the unused alarm post (J3 or J4 on CMS-1) (J3 or J5 on CMS-2) located on the circuit board, as shown in Figure 3.
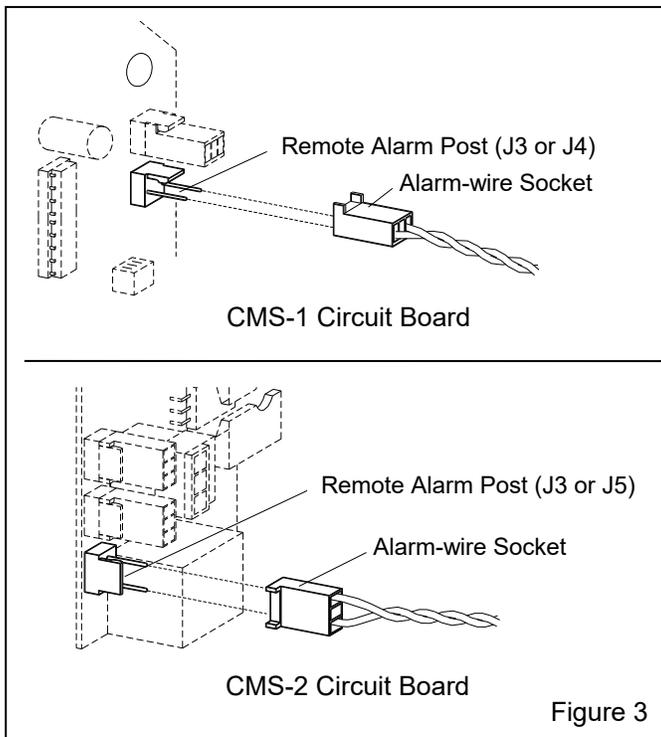

Remote Alarm Post (J3 or J4)
Alarm-wire Socket

CMS-1 Circuit Board

Remote Alarm Post (J3 or J5)

Alarm-wire Socket

CMS-2 Circuit Board

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 remote 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 cable are not designed to withstand the continual impact of abrasive that takes place inside a blast room. For additional external alarms, refer to the monitor manual for instructions for installing external alarm 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, the alarm may be place up to 150 ft. from the monitor.

3.3 Connect cable to the monitor and 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.
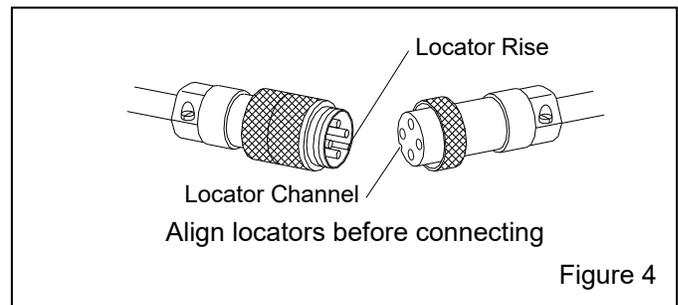

Locator Rise

Locator Channel

Align locators before connecting

Figure 4

3.4 Refer to the monitor operations 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
Wire assembly	22986
Cable with connectors, 50 ft.	22910
Stand assembly with pigtail	22987