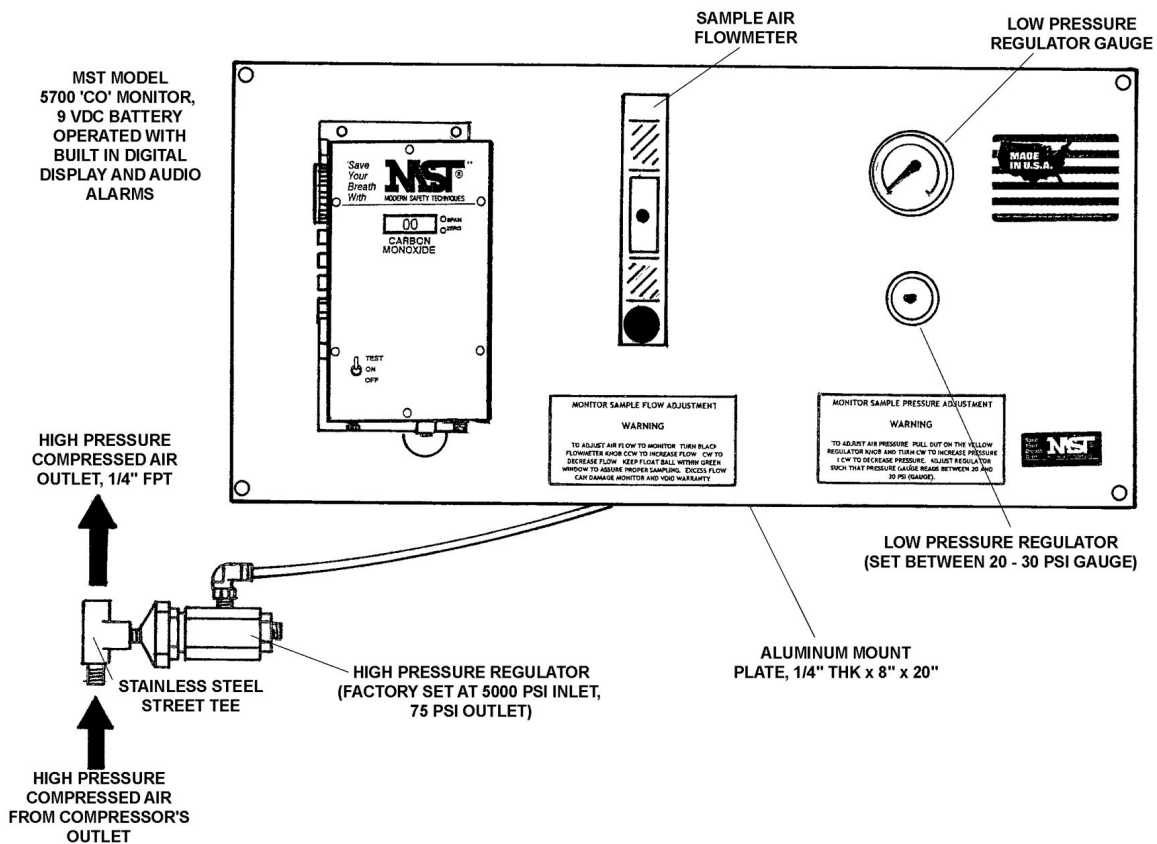# MST HIGH PRESSURE CARBON MONOXIDE
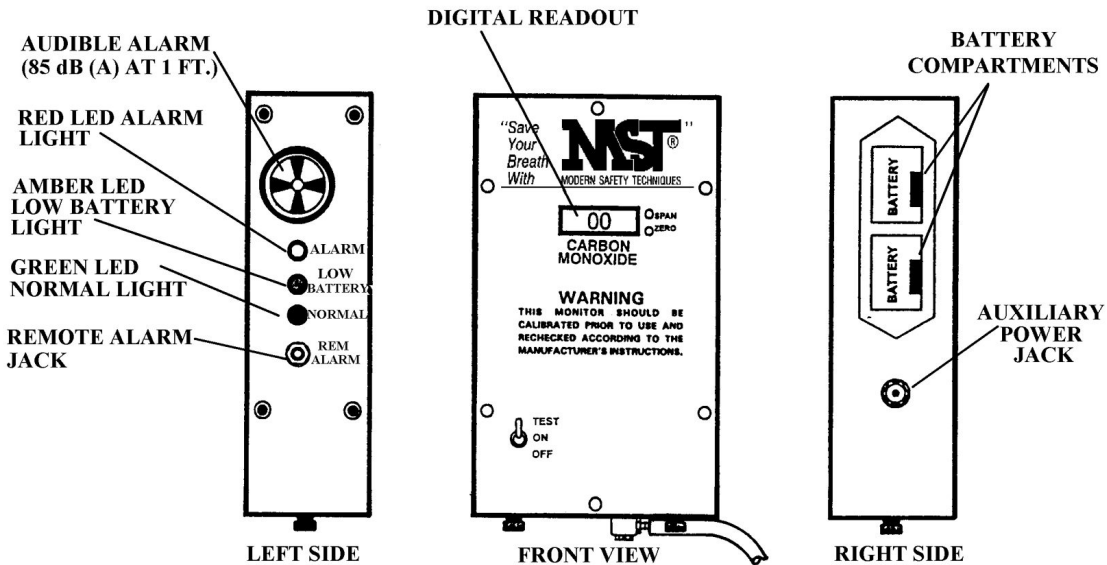# MONITOR RETROFIT PACKAGE
PART NO. 8033905

The MST, Inc. High Pressure Carbon Monoxide Monitor Retrofit Package will continually monitor for the Carbon Monoxide (CO) levels in the output air produced by any high pressure air compressor. The retrofit kit includes a high pressure regulator (rated at 6000 PSI and converts to low pressure, approximately 75 PSI), a low pressure regulator, pressure gauge, air sample flowmeter, MST's Model 5700 'CO' Monitor and mounting plate.

MST MODEL 5700 'CO' MONITOR

The MST, Inc. Model 5700 'CO' Monitor is a side mounted, 9 VDC battery powered (2) unit. The monitor has been designed, and is certified by the Canadian Standards Association (CSA LR-104195) to be INTRINSICALLY SAFE FOR USE IN CLASS 1, DIVISION I, GROUPS A, B, C & D when used with two 9 VDC alkaline transistor type batteries.

The monitor has a digital display, built in LED's, (green-NORMAL, amber-LOW BATTERY and red- ALARM), audible alarm (85 db) and a remote alarm jack (will energize optional visual - audible alarms). The monitor also has a built-in power jack that optional power adapters can be plugged into. The monitor is 'RFI' protected. The monitor's alarm set point is 10 PPM 'CO' level (factory set) and can be field adjusted.

AUDIBLE ALARM (85 dB (A) AT 1 FT.)
DIGITAL READOUT
BATTERY COMPARTMENTS
RED LED ALARM LIGHT
AMBER LED LOW BATTERY LIGHT
GREEN LED NORMAL LIGHT
REMOTE ALARM JACK
AUXILIARY POWER JACK

"Save Your Breath With" MST® MODERN SAFETY TECHNIQUES
00 SPAN ZERO
CARBON MONOXIDE
WARNING THIS MONITOR SHOULD BE CALIBRATED PRIOR TO USE AND RECHECKED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
TEST ON OFF

ALARM
LOW BATTERY
NORMAL
REM ALARM

BATTERY
BATTERY

LEFT SIDE   FRONT VIEW   RIGHT SIDE

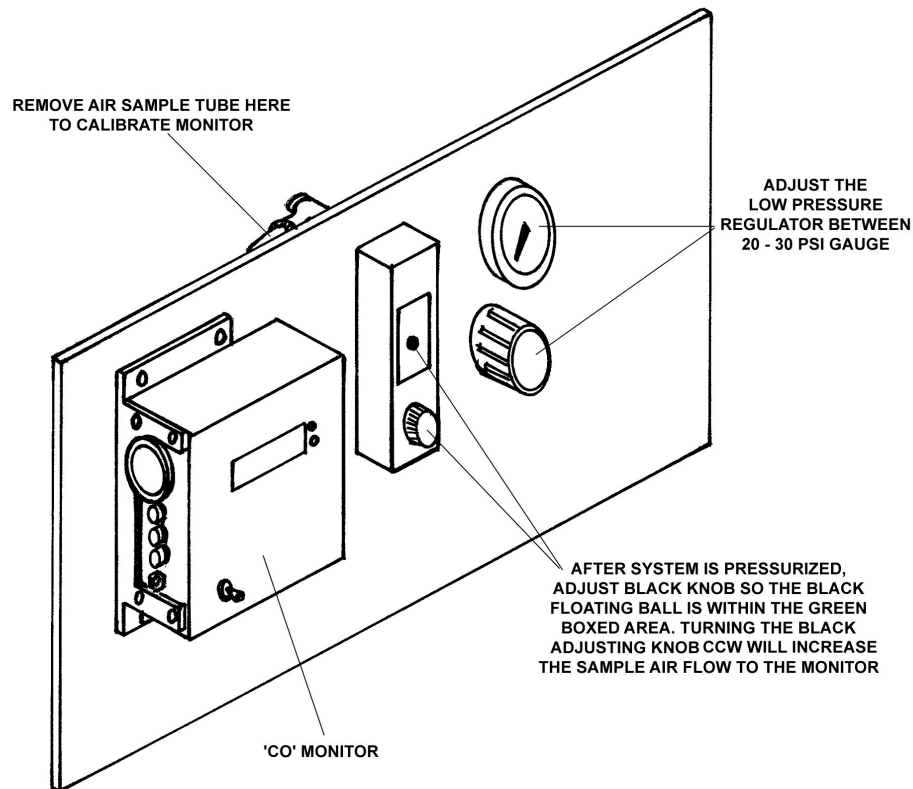# MONITOR SPECIFICATIONS

RANGE:	0-199 PPM CO
INITIAL ALARM SETTING:	US: 10 PPM CO CANADA: 5 PPM CO
DETECTOR TYPE:	ELECTROCHEMICAL CELL
POWER REQUIRED:	9 VDC ALKALINE BATTERIES (TRANSISTOR TYPE) - 2 EACH OPTIONAL POWER ADAPTERS
BATTERY LIFE:	30 -35 HOURS
MONITOR WARRANTY:	ONE YEAR
DETECTOR WARRANTY:	TWO YEARS

OPTIONAL ACCESSORIES

80133	Replacement Electrochemical 'CO' sensor
80444	Remote External Alarm, 85 db, 6 Ft. cable (APPROVED INTRINSICALLY SAFE)
80445	20 Ft. cable extension for 80444 (APPROVED INTRINSICALLY SAFE)
8008403	Remote External Alarm, 119 db, 20 Ft. cable (VOIDS INTRINSIC SAFETY)
8008503	Remote External Strobe, 20 Ft. cable (VOIDS INTRINSIC SAFETY)
8039601	Air Horn Alarm System, 120 db (P.N. 80247 Req'd) (VOIDS INTRINSIC SAFETY)
80247	120 VAC Adapter (VOIDS INTRINSIC SAFETY)
80123	12 VDC Adapter (VOIDS INTRINSIC SAFETY)
8013501	Rechargeable Battery System (VOIDS INTRINSIC SAFETY)
80326	Y-Jack for connecting Remote External Alarm and Strobe to Monitor (VOIDS INTRINSIC SAFETY)
8003101	Small Calibration Kit (Approx. 10 calibrations)
8003102	Large Calibration Kit (Approx. 36 calibrations)

OPERATION INSTRUCTIONS

A)   Install the (2) 9 VDC batteries or plug in optional power adapter; turn on monitor and allow five minute warm-up. Calibrate monitor at this time if required (see monitor manual for calibration instructions). If calibration not required, monitor is ready for use.

B)   Start-up compressor and pressurize system.

C)   Adjust LOW PRESSURE REGULATOR, located on panel, between 20 and 30 PSI gauge (CW will increase pressure)

D)   Adjust FLOWMETER so the black floating ball is within the green boxed area, (turn black adjusting knob CCW to increase sample air flow to monitor). The proper air sample to monitor is now set. If the 'CO' level in sample air is 10 PPM (5 PPM - Canada) or greater, the monitor's built-in alarms will be energized. The alarms will shut off when 'CO' levels go below the alarm set point.

REMOVE AIR SAMPLE TUBE HERE TO CALIBRATE MONITOR

ADJUST THE LOW PRESSURE REGULATOR BETWEEN 20 - 30 PSI GAUGE

AFTER SYSTEM IS PRESSURIZED, ADJUST BLACK KNOB SO THE BLACK FLOATING BALL IS WITHIN THE GREEN BOXED AREA. TURNING THE BLACK ADJUSTING KNOB CCW WILL INCREASE THE SAMPLE AIR FLOW TO THE MONITOR

'CO' MONITOR

PARTS LIST FOR HIGH PRESSURE
'CO' MONITOR RETROFIT PACKAGE
PART NO. 8033905

1) S039-16, (4) SCREW SS, #10-24 x 1 ½"

2) S504-008, (4), NUT SS, #10-24 LOCKING

3) 80091, (1), GAUGE, 0-160 PSI

4) S623-001, (1), ELBOW, 1/8" x 90º ST.

5) 80554, (3), ADAPTER, 1/8 FPT x 1/8 MPT

6) 80533, (1), REGULATOR, 1/4", 0-125 PSI

7) 80553, (3), ELBOW 90º, 1/4" MPT x 1/4" TUBE

8) 80260-B, (1), TUBING, 1/4" NYLON

9) 80260-B, (1), TUBING, 1/4" NYLON

10) 80261, (1), ELBOW, 1/4" x 1/8" MPT x 90º

11) 80377, (1), ELBOW, 1/8" MPT x 1/4" TUBE

12) S038-007, (2), SCREW SS, #10-32 x ½"

13) S413-007, (2), WASHER LOCK, #10 SS

14) 80557, (1), PLATE, 1/4" ALUMINUM

15) ------, (1), NUT, REGULATOR MOUNT

16) 80213, (1), FLOWMETER

17) S039-006, (4), SCREW SS, #10-24 x 3/8"

18) S413-007, (4), WASHER LOCK, #10 SS

19) 80127, (1), CO MONITOR

20) S412-005, (4), WASHER LOCK, #6

21) S037-005, (4), SCREW, #6-32 x ½"

22) 80339, (1), MONITOR MOUNT BRACKET

23) 80555, (1), REGULATOR, HIGH PRESSURE

24) 80556, (1), TEE SS, 1/4" STREET