Thermal Gas *Systems* inc. _____

To: _____   **Date:** _____

AT: _____

FAX: _____

From: _____

Subject: Haloguard **IR** Model _____   **S/N** _____

Message: Please provide the following information so that we may determine the solution to your problem.

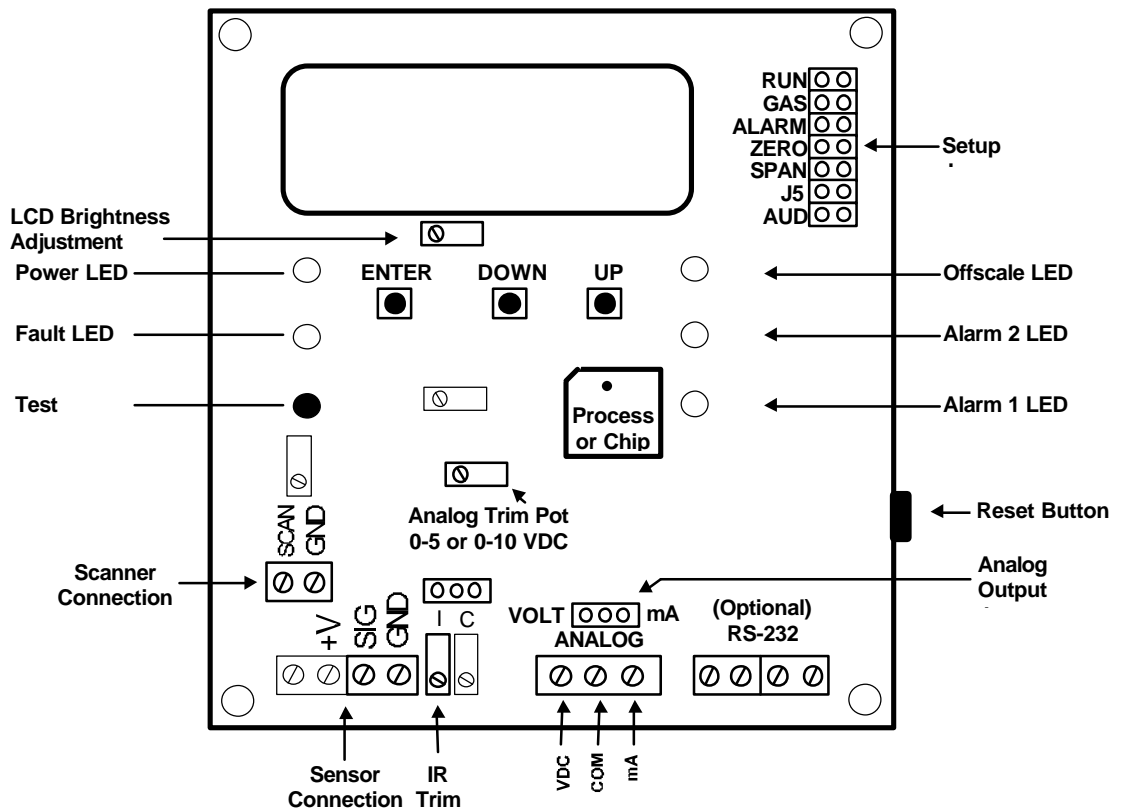**1-** Describe the problem: _____

_____

_____

_____

Figure 2 - Haloguard IR Controller Upper Circuit Board

2- Refer to **Figure 4**. Observe the LCD on **Haloguard IR Controller**. Record information display.

_____

Thermal Gas *Systems* inc. _____

11285 Elkins Road Bldg. H-1 ? P.O. Box 803 ? Roswell, GA 30076
Haloguard[?] and Haloguard IR[?] Monitors

TEL (770) 667-3865
FAX (770) 667-3857

3- Advise status of all the LEDs on the faceplate: _____

_____

_____

4- Remove faceplate from **Haloguard Controller**. Refer to **figure 2**, record jumper settings.

RUN	GAS	ALARM	ZERO	SPAN	J5	AUD
ON	ON	ON	ON	ON	ON	ON
OFF	OFF	OFF	OFF	OFF	OFF	OFF

5- Refer to **Figure 2,** move jumper from **RUN** to **J5**. Record information displayed.

_____

_____

6- Wait at least one minute. Referring **Figure 2** as a guide, measure dc voltage between **SIG** and **GND**. Record values to the nearest millivolt (0.001V).

CHANNEL	
SIG & GND	

Refer to **Figure 2,** move jumper from **J5** to **RUN**.

At the IR Sensor Module:
7- Open the **IR Sensor Module**. Refer to **Figure 5**, move jumper from **RUN** to **SETUP**.

8- Examine the condition of clear plastic tubing inside the **IR Sensor Module**. Make sure tubing has not detached from fittings.

At the Haloguard IR Controller:
9- Wait at least one minute. Referring to **Figure 2** as a guide, measure dc voltage between **SIG** and **GND**. Record values to the nearest millivolt (0.001V)**.**

CHANNEL	
SIG & GND	

10- Refer to **Figure 4**. Observe LCD on **Haloguard Controller**. Record information displayed.

_____

_____

11- Move the jumper to **Alarm** position. Use **ENTER** pushbutton to toggle between alarm settings. Record values.

ALARM 1	ALARM 2

At the IR Sensor Module
12- Move jumper from **SETUP** to **RUN**. Close the **IR Sensor Module**.

At the Haloguard IR Controller
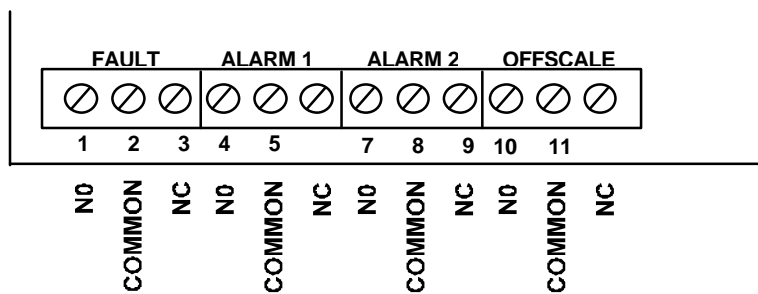**13-** Replace faceplate.

Thermal Gas *Systems* inc. _____

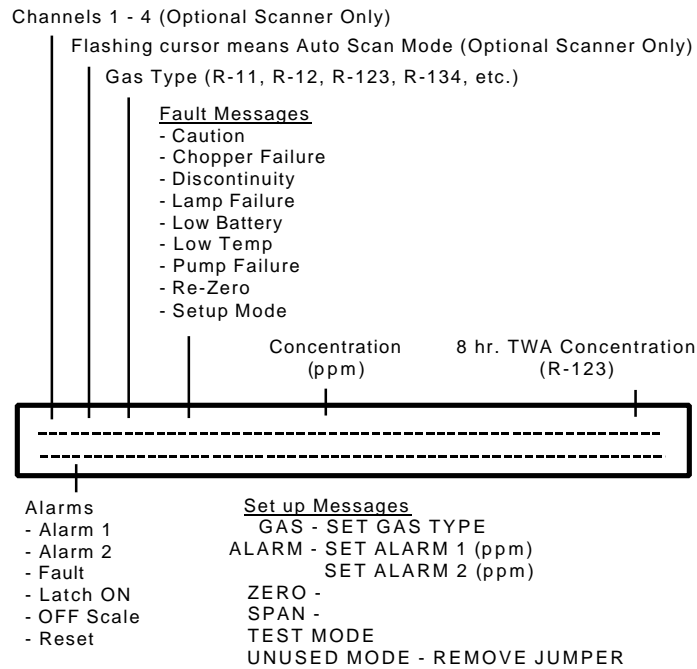**Figure 3 - Haloguard IR Controller Lower Circuit Board**

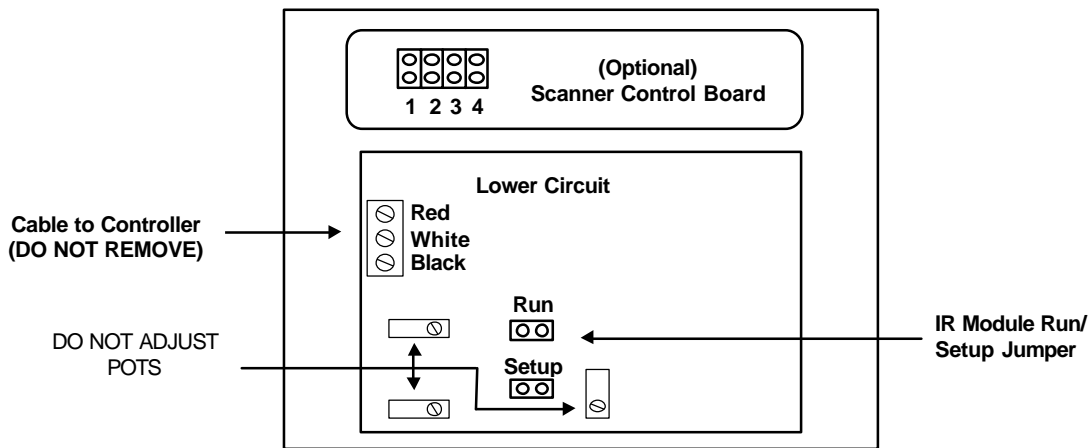**Figure 4 - Haloguard IR Controller LCD Display Features**

Figure 5 - IR Sensor Module Circuit Boards

The complete instruction manual may be helpful. If a copy is required, please let us know.