KM Visual Inspection

How can I check my KM kiln for proper operation?

One simple and quick test to determine that the relays and elements are working correctly is to visually inspect the kilns heating elements while the kiln is on. You can do this by entering the following Ramp / Hold program on an empty kiln and running it with the lid open so you can see the elements glowing. It will usually take anywhere from 10 to 30 minutes to see the elements glow depending on the model of the kiln and the age of the elements. While looking at the elements you might notice the following:

- **One section of the kiln is not going on.** This indicates a defective relay that is not

turning on. There is usually one relay per section.

- **One element is not glowing at all.** This indicates a broken element.

- **There appears to be cool spots on some elements.** This indicates worn elements.

- **The TOP and BOTTOM elements are hotter than the center elements.** This is

normal for all kilns except the KM714 and the KM614.

The following is the program for checking relays and elements in the kiln:

Step	Press	Action	Display
1	**Ramp/Hold**	Enters Ramp/Hold Mode	USEr1.
(Older version touchpads will not have USER numbers available.)			
2	**1**	Enters Program USER number	1
3	**Enter**	Stores the Program number selected	SEGS
(Older version touchpads will begin here.)			
4	**1**	Enters the number of segments in profile	1
5	**Enter**	Stores the number of segments	rA1
6	**9999**	Enters the firing rate per hour of seg. 1	9999
7	**Enter**	Stores segment 1 firing rate	^{0}F 1
8	**500**	Enters the ^{0}F temp. to reach before holding	0500
9	**Enter**	Stores the target temperature for segment 1	HLd1
10	**0**	Enters the time to hold at desired temp.	0000
11	**Enter**	Stores the hold time for segment 1	ALAr
12	**9999**	Enters the degrees to sound the alarm.	9999
13	**Enter**	Stores the alarm temperature	StOP

The display will flash StOP after programming is complete, then it will begin flashing the internal kiln temperature. This program will be stored as USEr #1 for future use or revisions. (USER numbers are available for newer model KM kilns manufactured after March of 1995).