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IMPORTANT INFORMATION
READ BEFORE OPERATING

Burnout Instructions
&
Adding and Removing Channels
For the Chino AL/AH3000 Recorders

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ADDING and DELETING CHANNELS on the
CHINO AH-3000 RECORDERS

To delete channels (skip) on the Chino AH-3000 digital recorders a simple procedure must be followed.

1. **Hold the** SHIFT **+** 7 **Keys together to get to the Range parameter.**

2. **Press the** SET **Key to enable value changes to be entered. An underline (cursor) will be seen under the first two numbers. This is the channel number to be configured.**

3. **Select the channel to be deleted by pressing the UP or DOWN Arrow keys.**

4. **Press the** SHIFT **+** CLEAR **keys together. The channel will now be empty (cleared).**

5. **Press the** ENTRY **key to temporarily store this value into memory.**

6. **Press the** SHIFT **+** SET **keys together to store these settings and to return to the home screen.**

To restore deleted channels on the Chino AH-3000 digital recorders a simple procedure must be followed.

7. **Hold the** SHIFT **+** 7 **Keys together to get to the Range parameter.**

8. **Press the** SET **Key to enable value changes to be entered. An underline (cursor) will be seen under the first two numbers. This is the channel number to be configured.**

9. **Select the channel to be restored by pressing the UP or DOWN Arrow keys.**

10. **The following values are the generally used values for heat treating purposes.**

01:2310⌐   **2000**

This represents channel 1 (01), (23)Type K thermocouples, (1)an internal cold junction value, (0 to 2000) 0 degrees F. to 2000 degrees F. range. Press the ENTRY **key to temporarily store this value into memory.**

When these values are entered for each of the channels to be restored, Press the SHIFT **+** SET **keys together to store these settings and to return to the home screen.**

Burnout Settings for the Chino AH-3000 Recorders

To avoid a potential electronic backfeed from the Chino AL/AH-3000 recorders to the Controllers or a Programmer, it is recommended to use the following procedure.

1. **Up scale burn-out** any thermocouple input to the recorder that is open (not being used) should be programmed with **up-scale** burnouts. For example, if channels 1 through 7 were being used, then channels 8 through 12 (on a 12-point recorder) would be set with up-scale burnout.
2. **Down scale burn-out**   Not generally used in heat-treating
3. **Non burn-out** any thermocouple input to the recorder that is being used (active/reading a T.C.) should be programmed with **Non-burnout**.

Procedure for entering burn-outs:

1. Press **both** the **SHIFT** button and the **DOWN ARROW** button together and **hold** them both for five (5) seconds. Display will show…*01 = Up bUrn*

2. Press the **SET** button to enable changes to be made. A cursor (underline) will appear under the first two numbers. These numbers indicate the channel to be programmed.

3. Scroll to the channel to be set by using either the **ENTER** key or the **UP** or **DOWN ARROW** keys. In our example we will scroll to channel 8.

4. Move the cursor under the type of burnout desired by using the **RIGHT ARROW** key. There are three possible settings. **UP DOWN** or **NON**. UP is for up-scale burnouts, DOWN is for down-scale burnouts and NON is for no burnouts.

5. Scroll through the three burnout options by using the **UP** or **DOWN ARROW** keys. For our example we will set channel 8 with an **UP-SCALE** burnout. Push the **ENTER** key to enter the setting for channel 8.

6. Repeat this procedure for channels 9 through 12.

7. After all the channels have been programmed as desired it is necessary to store the settings into memory. To do this, press the **SHIFT** button and the **SET** button **together**. The recorder will store the settings into memory and return to the original display screen.