

KIRA TECH TIP

S-RAM Data Loading

(Fanuc 20/21 Control)

The following procedure is used to restore the PMC Ladder into a Fanuc 21MB CNC control by use of an S-RAM memory card. Refer also to the Fanuc Series 21MB Maintenance Manual listed under the BOOT SYSTEM appendix.

- Turn off all main power to the Kira machine
- Insert the SRAM card into the slot in the CNC Module. The card will only go in about half way. Do not force the card in the slot.
- Turn on main power to the machine

Read the following next steps first before proceeding

- Turn on NC Power to the machine. This is the key switch on the front panel. Immediately after turning on the NC Power, press the two softkeys on the extreme right end.
- A different screen will be displayed. This screen is called System Monitor Main Menu. With the cursor on [1, System Data Loading], press [SELECT].
- Using [UP] and [DOWN] cursor to the file to be loaded.
- Press [SELECT]
- At the Loading OK prompt, press [YES]
- At this time the SRAM card will download its data to the CNC control. This process will take about 2 minutes maximum.
- At the end the screen will prompt to press [SELECT]
- Use [DOWN] to move the cursor to [END]
- Press [SELECT]
- Move the cursor to [END] on the main screen. Press [SELECT] and [YES]
- The control will now start up as normal
- Turn off the switch for NC Power
- Turn off main power
- Remove the S-RAM card and put it back in its protective case
- Check to make sure that the correct software changes have been made

I have found that doing this procedure, an error message of the S-RAM card being write protected occurs. The write protect switch is a small on the edge of the S-RAM card. If the card is not write protected, the switch is toward the “center” of the card, then do the following:

- At the Main menu select [5. SRAM Data Backup] [SELECT]
- Cursor to the [SRAM backup: CNC to Memory Card]. Press [SELECT], [YES] . The data will be backed up as a file SRAM256K.000
- Move back to the main menu screen and select [System Data Loading] and begin again