

## L-02: Back Up/Load Parameters

### SAFETY FIRST

- Follow all Caterpillar facility safety standards when performing this task.

### EQUIPMENT

- PC with ProComm or required communication software

### RESOURCES

- GE Fanuc CNC Communication Manual
- GE Fanuc Field Support Manual for using a PC with PRO COMM 2.4.2 Software

### Back Up/Load Parameters

**Note:** This task was performed on United Grinder using Fanuc 0 software. Follow the specific manual procedures to set up the PC and CNC communication parameters. This task is performed using DOS version of PROCOMM. Windows versions are also available.

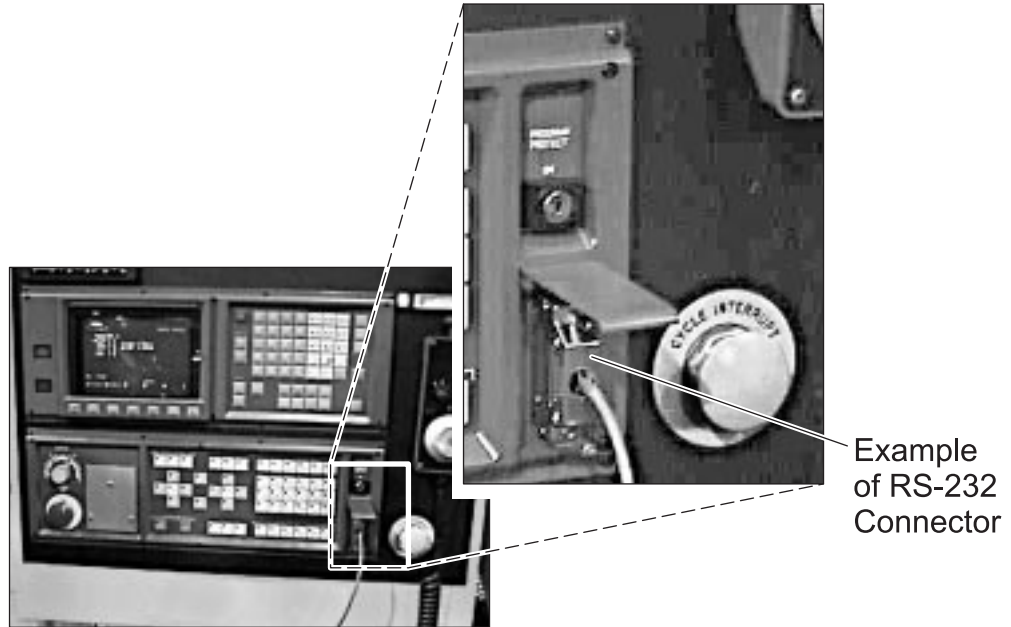
### Back Up CNC and PMC Parameters

- 1. Obtain the required GE Fanuc Field Support Manual for using a PC with ProComm 2.4.2 software.**
- 2. Verify the machine is set up with the required parameters.**
  - Use the Field Support Manual to compare parameters.
- 3. Connect the serial line between the PC and the control panel.**

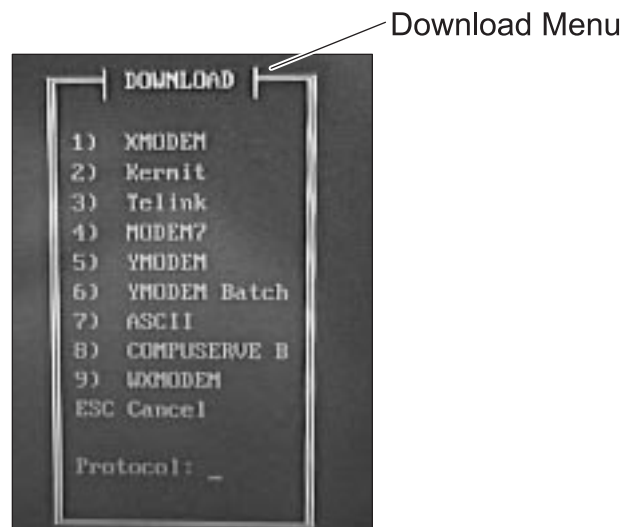
**Note:** Connections may vary, depending upon the control panel and the PC.

- Plug in the PC power supply.

- Connect the RS-232 connector between the computer and the control panel.

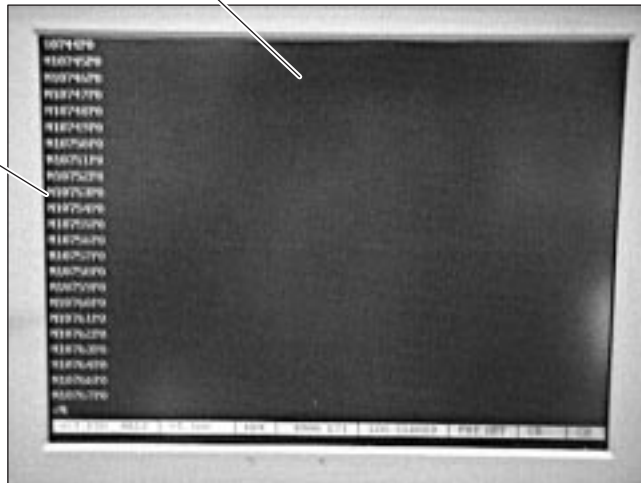


4. **Power up and boot the PC.**
5. **Load ProComm.**
6. **Press the <PG Dn> key to access the Download Menu (receive files from CNC).**



7. Press the <7> key to select ASCII for the protocol.
8. Name the data file and start the file transfer.
  - Type the machine number and the letter P (or S for the PMC backup), then press the <Enter> key.
9. Go to the Operator's panel.
10. Go into "Edit" mode.
11. Press the "DGNOS/PARAM" button.
12. Press the <Parameters> soft key (or the <DGNOS> soft key if backing up the PMC parameters).
13. Press the "OUTPT START" button.
  - Data should scroll down the PC screen.

PC (Laptop) Screen

Data Scrolling  
on Screen

- The CNC screen flashes "Output" in the lower right corner while the data transfers.

**14. Verify the data transfers.**

- ProComm does not have a Verify Function. Press <Alt> and the X key to exit to the DOS prompt and check the directory for the file.
- Make sure the date is accurate in the file details and the file size is more than 1 byte.



```
Directory of A:\
PROCOMM  BIT      6,150 11-26-97
PROCOMM  EXE     165,376 06-15-07
Q        EXE      48,440 02-19-07 1
PROCOMM  HST      240 10-31-96 1
PROCOMM  IMG     6,875 04-07-95 1
PROCOMM  XCL      500 06-15-07
PROCOMM  LOG      1 10-25-90 1
PROCOMM  FRM      631 01-22-98
PROCOMM  XLT      256 06-15-07
26496LP   33,703 03-27-99
26496LS   5,213 03-27-99
26496RP   33,778 03-27-99
26496RS   5,213 03-27-99
27316P   25,544 03-30-99
27316S   3,605 03-30-99
27533P   10,910 04-20-99
27533S   1 04-21-99 1
11111S   3,606 04-21-99 1
11111P   24,704 04-21-99 1
19 File(s) 300,302 bytes
```

Sample  
Transferred  
Data File

## Load CNC or PMC Parameters

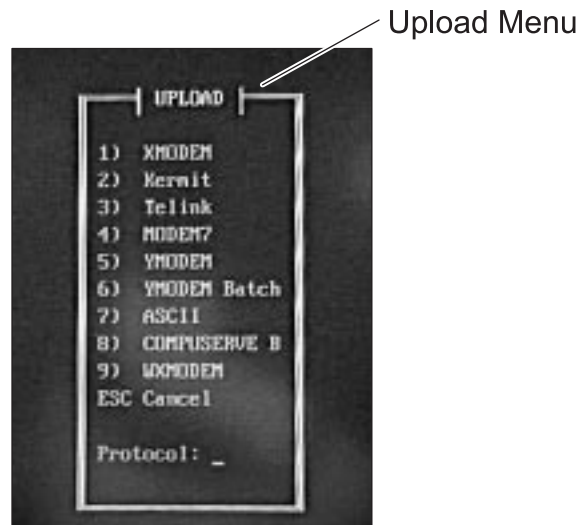
1. **Obtain the required GE Fanuc Field Support Manual for using a PC with ProComm 2.4.2 software.**
2. **Verify the machine is set up with the required parameters.**
  - Use the Field Support Manual to compare parameters.
3. **Connect the serial line between the PC and the control panel.**

**Note: Connections may vary, depending upon the control panel and the PC.**

- Plug in the PC power supply.
  - Connect the RS-232 connector between the computer and the control panel.
4. **Power up and boot the PC.**
  5. **Load ProComm.**
  6. **Go to the Operator's Panel.**
  7. **Go to the "Edit" mode.**
  8. **Press the "DGNOS/PARAM" button.**
  9. **Press the <Parameters> soft key (or DGNOS if loading PMC).**
  10. **Press the "Input" button.**
    - Observe that "LSK" flashes in the lower right corner of the screen.
  11. **Go back to the PC.**



12. Press the <PG Up> key to access the upload menu (this sends data from the PC to the CNC control).



13. Press the <7> key to select ASCII for the protocol.
14. Type in the file name (usually the machine number and either “P” for CNC or “S” for PMC), then press <Enter>.
15. Verify the data transfer.
- Make sure that text begins scrolling on the PC screen.
  - Go to the Operator’s panel and make sure the CNC displays “Input” where “LSK” was flashing.
16. Cycle the CNC power to allow the parameter data load to take effect.
- The power may need to be shut off completely before restart, depending upon type of control.