muratec

ALL-IN-ONE DATA BACK-UP PROCEDURE

NC: FANUC 30iB series

Model: All models

DOC No.: SD001441
Edition: 2014

Contents

1．Outline

This document includes step by step instructions for how to back up a group of files all at once, a new feature added since the FANUC 30i B series. The new feature allows the user to back up the files including "SRAM_","CLB_" and "PMC_"files all at the same time. However, certain programs like the loader program are excluded, performing the individual file backup remains the same as before.

2．Back-up Data List

There are two different data backup processes must be followed for backing up the data to the server. To back up a group of data all at once or as individual. Register the data shown on the below table (1) and (2) to the server.

(1) List of Data needs to be backed up using the All-in-One Data Back-up function.
Below table shows a list of data that can be backed up using the All-in-One Data Back-up function.
Refer to Section 3 on how.

*The protected programs must be unlocked before outputting. !!! Parameter 3202 NE8(Bit 4)+NE9 (Bit 0) !! Set both bits to 1 for download and DONT FORGET to set back to 0 when done !!!

Description	File Name	Note
Cutting Program(*)	ALL-FLDR.TXT	Left and right cutting programs are stored in the one file
System File 0	CLB0.000	
System File 1	CLB1.000	
System File 2	CLB2.000	
System File 3	CLB3.000	
System File 4	CLB4.000	
System File 6	CLB6.000	
System File 7	CLB7.000	
System File 8	CLB8.000	
System File 9	CLB9.000	
System Software	CLBUSR.000	
NC Parameter	CNC-PARA.TXT	
NC ID Data	CNCIDNUM.TXT	
Macro (Path1)	MACRO.TXT	
Macro (Path 2)	MACRO.P-2	Twin turret configuration only
Pitch Error Compensation Data	PITCH.TXT	Only when the pitch error compensation is used

Description	File Name	Note
Maintenance Data	MAINTINF.TXT	
Periodical Maintenance Data	MAINTENA.TXT	
Machine Item Name Data	MAINTEMC.TXT	
Network Setting Information	NETWORK.MEM	
Operator History Signal Selection Data	OHIS_SIG.TXT	
Option Information File	OPRM_INF.000	
Operator History	OPRT_HIS.TXT	
Ladder	PMC1.000	
Dual Check	PMCS.000	Dual check configuration only
PMC parameter	PMC1_PRM.TXT	
SRAM Data	SRAM_BAK.001	
Servo/spindle Information	SV_SP_ID.TXT	
System Configuration Information	SYS-CONF.TXT	
System Alarm	SYS_ALM.TXT	
Offset (Path 1)	TOOLOFST.TXT	
Offset (Path 2)	TOOLOFST.P-2	Twin turret configuration only

(2) List of data needs to be backed up individually.

Below table shows the name of the files which are excluded from the All-in-One Data Back-up function that need to be backed up individually. Refer to Section 4 on how to back up each file.
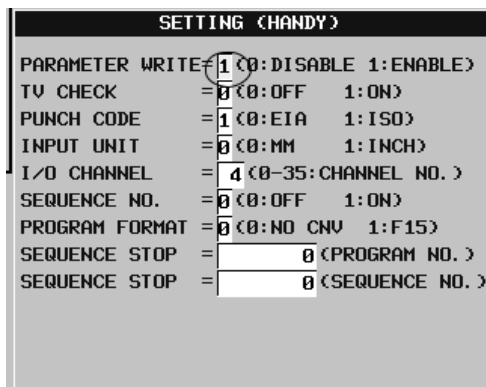
Description	File Name	Note
PMC Parameter Output	ALLPRM0.PRM	
G Loader Program	ALLLD0.PRG	Single loader configuration only
GT Loader Program (Left)	ALLLDL0.PRG	Twin loader configuration only
GT Loader Program (Right)	ALLLDR0.PRG	Twin loader configuration only
Cycle Table Output	CYCLTBL0.TXT	

3. All-in-One Data Back-up Procedure

(1) Set-up for PARAMETER WRITE-ENABLED (PWE)

Go to the EDIT key IN state (EDIT mode) in AUTO mode.

Press the OFS/SET key on the MDI panel several times, and setting screen is displayed. Set "1" at PARAMETER WRITE.

```
                SETTING (HANDY)

PARAMETER WRITE=1 (0:DISABLE 1:ENABLE)
TV CHECK       =0 (0:OFF    1:ON)
PUNCH CODE     =1 (0:EIA    1:ISO)
INPUT UNIT     =0 (0:MM     1:INCH)
I/O CHANNEL    = 4 (0-35:CHANNEL NO.)
SEQUENCE NO.   =0 (0:OFF    1:ON)
PROGRAM FORMAT =0 (0:NO CNV 1:F15)
SEQUENCE STOP  =         0 (PROGRAM NO.)
SEQUENCE STOP  =         0 (SEQUENCE NO.)
```

(2) Set-up for Input/Output ports

Press the SYSTEM key on the MDI panel several times, and the NC paramter screen is displayed. Set "4" for the 00020 I/O CHANNEL to activate input and output for the card slots. (If you input from serial ports, set "0".)
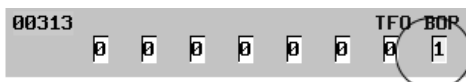
```
00020 I/O CHANNEL
                    4
```
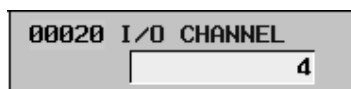
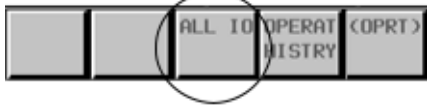(3) Insert a memory card in the card slot at the left of the LCD.

(4) Set-up for NC parameter

Change the"N313#0 (NC data output function) ""0" to " 1" so that All-in-One Data Back-up function can be enabled.

```
00313                    TFO BOR
      0   0   0   0   0   0   0   1
```

(5) Display ALLIO screen

On the NC parameter screen, press the soft key [▷] several times, and the soft keys as shown below are displayed. Press the ALL IO key.
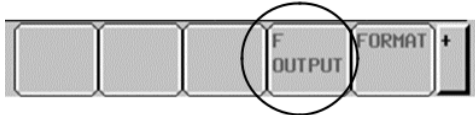

(6) Set-up for data output

On the All I/O screen, press the soft key [▷] several times, press the ALL DATA key when the soft keys as shown below are displayed. After confirming the ALL DATA has been selected, then press the OPRT key.

Below soft key will be indicated by pressing the soft key [▷] , press the F OUTPUT key.

(7) Data output

A message prompting "THIS OPERATION NEEDS POWER OFF. AND SAME NAME FILE IS OVERWRITED. EXECUTE?" will be indicated and if that is all right, press the EXEC soft key to start the data output. Then the display will be prompting you to turn the NC power off, turn the NC power off as directed on the screen while the memory card is inserted into the slot.

*If a file of the same name already exists in the card, it will be overwritten.

(8) Restart

Data rewriting can be enabled after the NC power has been turned off while restarting the NC when the memory card remain inserted into the slot.

4．Individual Data Back-up Procedure

Below explains the data backup procedure for the (1) PMC parameter, (2) Loader program and (3) Cycle table data files that cannot be backed up using the All-in-one Data Back-up function.

(1) PMC parameter

1) Display card RD/WR screen

Press the "Maintenance Control" on the Operate Panel, and press the soft key MAINTENANCE.

If MAINTENANCE key is not displayed, press ◁ key or ▷ key.
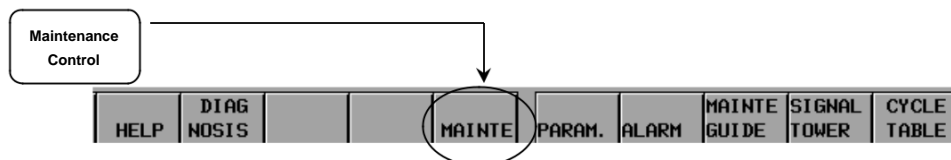
Press the soft key CARD RD/WR.

2) Output starts

Press the soft key PARAM. WRITE.

3) Output confirmation

When the PARAM. WRITE key is pressed at the previous step 2), a promping message is displayed. Then press the PARAM. WRITE key again to start outputting.

Output file name will be assigned automatically.

PMC parameter data file name：**ALLPRM0.PRM**

(If the same file name exsists in the card, the "0" in the file name will be automatically renamed by changing the number, which ranges up to max."9".)

(2) Loader program

    1) Display card RD/WR screen

       Turn-off the EDIT key before starting this operation then follow the same procedure as the (1)

       PMC parameter to display the card RD/WR screen.

    2) Output starts

       Press the soft key LOADER WRITE.

| BACK | MAINT. | AXIS LOAD | CHECK ITEM | CARD FORMAT | FILE DELETE | PARAM. READ | PARAM. WRITE | LOADER READ | LOADER WRITE |

    3) Output confirmation

       When the LOADER WRITE key is pressed at the previous step 2), a prompting message to

       start outputting is displayed. Then press the LOADER WRITE key again to start outputting

UNLOAD PARAMETER DATA? YES->PARAM. UNLOAD KEY NO->CAN KEY

| BACK | MAINT. | AXIS LOAD | CHECK ITEM | CARD FORMAT | FILE DELETE | PARAM. READ | PARAM. WRITE | LOADER READ | LOADER WRITE |

       Output file name will be assigned automatically.

       Loader program data file name：**ALLLD0.PRG**

       (If the same file name exsists in the card, the "0" in the file name will be automatically

       renamed by changing the number, which ranges up to max."9".)

*With the twin gantry configuration, you must output loader programs from left and right

sides separately by choosing the left or right as follows:

       (L) loader program data file name：**ALLLDL0.PRG**

       (R) loader program data file name：**ALLLDR0.PRG**

       ("0" remains unchanged.)

(3) Cycle table

   1)   Display card RD/WR screen

     Follow the same procedure as the (1) PMC parameter to display card RD/WR screen.

   2)   Output starts

     Press the soft key CYC.TB WRITE.

     If the CYC. TB WRITE key is not displayed, press the ◁ key or the ▷ key.

     Output file name will be assigned automatically.

     Cycle table data file name：**CYCLETBL.TXT**

     (If the same file name exsists in the card, it will be overwritten)

5. Input procedure for the cutting program data that were backed up using the All-in-One Data Back-up.

Below explains an input procedure for the data "ALL-FLDR.TXT"which contains the left and right cutting programs in one file that was backed up using the All-in-One data back-up.

(1) Go to the EDIT key IN state (EDIT mode) in AUTO mode.
(2) Set-up for Input/Output ports.

Follow the procedure described on page 3, (1) to (2) at Section 3. to set-up for Input/Output ports. (The following explanation is based on setting up a port to a card slot "4".)

(3) Display ALLIO screen

On the NC parameter screen, press the soft key ▷| several times, and the soft keys as shown below are displayed. Press the ALL IO key.

(4) Select parameter input/output

Press the PROGRAM key before pressing the OPRT key.

(5) Input the data that were backed up using the All-in-One Data Back-up.

Press the soft key ▷| several times, and the soft keys as shown below are displayed. Press the ALL INPUT key.

(6) Input the data that were saved using the All-in-One Data Back-up. Inputting will start upon pressing the EXEC key.