

AB-OSAI 8600 SERIES (+ IBM compatible P.C.)

Loading Machine Data using an IBM compatible P.C.

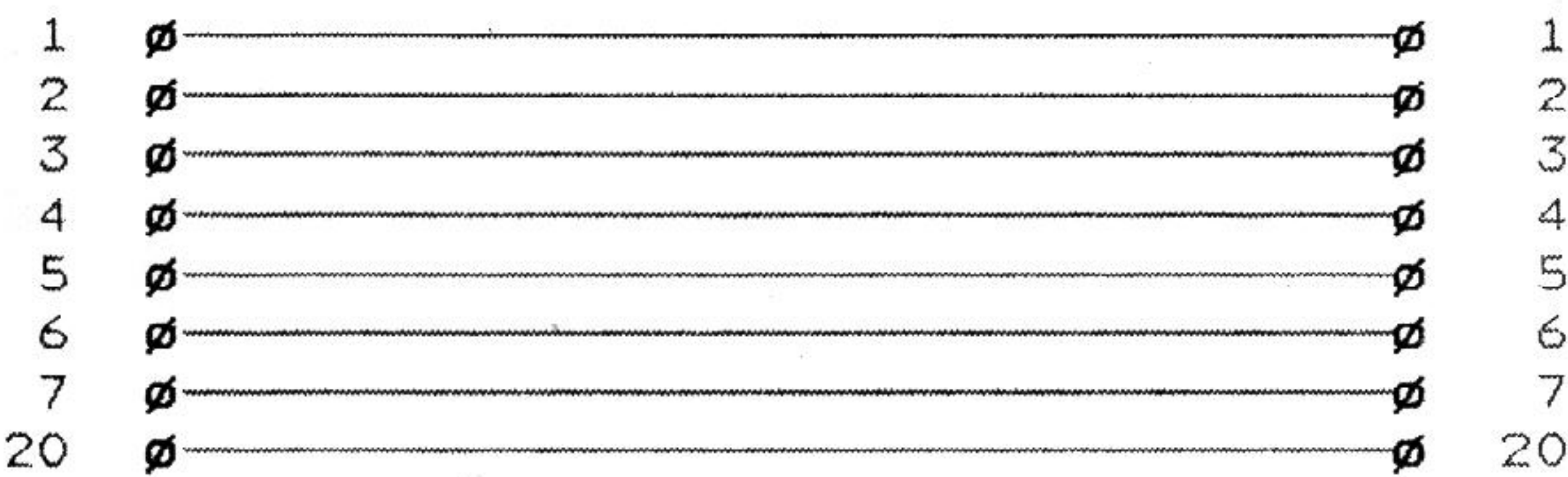
15-09-94 (english)

Computer : IBM compatible P.C.

Cable IBM compatible P.C. <--> AB-OSAI 8600 SERIES :

IBM compatible P.C.

AB-OSAI 8600 SERIES



Connector DB 25 Female

Connector DB 25 Male

AB-OSAI 8600 SERIES (+ IBM compatible P.C.)

Loading **all Machine Data** using an IBM compatible P.C.

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15-03-93 (english)

1.1 Power **ON** the Numerical Control keeping pressed the button
STOP until the screen is ON.

1.2 Press: **F**

1.3 Press: **T**

1.4 Press: **B**

1.5 Set: **3000:0** ┘ (Send)

1.6 Set: **3000:FFFF** ┘ (Send)

1.7 Set: **0** ┘ (Send)

1.8 Set: **4000:0** ┘ (Send)

1.9 Set: **4000:FFFF** ┘ (Send)

1.10 Set: **0** ┘ (Send)

1.11 Set: **0000:8000** ┘ (Send)

1.12 Set: **0000:FFFF** ┘ (Send)

1.13 Set: **0** ┘ (Send)

1.14 Set: **2000:0** ┘ (Send)

1.15 Set: **2000:FFFF** ┘ (Send)

1.16 Set: **0** ┘ (Send)

1.17 Set: **0000:1000** ┘ (Send)

1.18 Set: **0000:7FFF** ┘ (Send)

1.19 Set: **0** ┘ (Send)

2.1 Power **OFF** then power **ON** the Numerical Control keeping pressed
the button **START** until the screen is ON.

On the screen appears :
**** INIT ABORTED ****

2.2 Press: **P0**

On the screen appears : **FILMS 1 21 (= POWER-ON IN EMERGENCY)**
PRESS RETURN TO START JCL

Press: ┘ (Send)

On the screen appears : **JOB**

2.3 Type: **INI,MP0,/MP0** ┘ (Send)

On the screen appears : **FILMS 2 02 (= DO YOU CONFIRM ?**
(Y/N))

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2.4 Type: Y ┘ (Send)
 On the screen appears : FILMS 2 03 (= COMMAND EXECUTED)
2.5 Type: EDI,FCRSYS/MPO ┘ (Send)
2.6 Type: *2 ┘ (Send)
2.7 Type: XAREAD,09,1,3 ┘ (Send)
2.8 Power OFF then power ON the Numerical Control.
 On the screen appears :
 ** INIT ABORTED **
2.9 Press: P0
 On the screen appears : FILMS 1 25 (= FCRSYS, *3 : EMPTY)
 PRESS RETURN TO START JCL
 Press: ┘ (Send)
 On the screen appears : JOB
2.10 Type: CRE,EDPERR/MPO,40,30 ┘ (Send)
 On the screen appears : FILMS 2 03 (= COMMAND EXECUTED)
2.11 Type: CRE,EDPMSG/MPO,40,10 ┘ (Send)
 On the screen appears : FILMS 2 03 (= COMMAND EXECUTED)
2.12 Type: CRE,IOERRM/MPO,40,41 ┘ (Send)
 On the screen appears : FILMS 2 03 (= COMMAND EXECUTED)
2.13 Type: CRE,PROERR/MPO,32,111 ┘ (Send)
 On the screen appears : FILMS 2 03 (= COMMAND EXECUTED)
2.14 Type: CRE,MESSAG/MPO,32,63 ┘ (Send)
 On the screen appears : FILMS 2 03 (= COMMAND EXECUTED)

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IBM COMPATIBLE P.C. (COMPUTER)

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3.1   Insert in an IBM compatible Computer the disk containing the
       Machine Data which has been shipped with the machine.
3.2   On the Computer perform the necessary operations in order to
       have: A:\>
3.3   On the Computer, type: CMSIO
3.4   After a few seconds appears:
                                     MENU  I/O  C.N.C.
                                     1 INPUT FILE
                                     2 OUTPUT FILE
                                     3 PRECEDING MENU

```

- ```

4.1.1 On the AB-OSAI Numerical Control; type: COP,/PRO,AXCFIL/MPO
4.1.2 On the Computer : - select : 2
 - appears : I/O NUMERICAL CONTROL
 PRESENT DRIVE A ?
 - press : RETURN
 - appears : I/O NUMERICAL CONTROL
 FILE NAME ?

```



- 4.1.3 On the Computer : - type **AXCFIL** and press **RETURN**  
- appears : **ENABLE C.N.C.**  
**ENTER TO START**  
- press : **RETURN**
- 4.1.4 On the AB-OSAI Numerical Control press: **—** (Send)
- 4.1.5 At the end of transmission on the Computer appears:  
**END OF TRANSMISSION**  
**PRESS ANY KEY TO GO BACK TO THE MAIN MENU**  
On the Computer press : **RETURN**
- 4.1.6 At the end of transmission on the AB-OSAI Numerical Control  
appears : **FILMS 2 03 (= COMMAND EXECUTED)**  
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- 4.2.1 On the AB-OSAI Numerical Control, type: **COP, /PRO, IOCFIL/MPO** <sup>↗ zero</sup>
- 4.2.2 On the Computer : - select : **2**  
- appears : **I/O NUMERICAL CONTROL**  
**PRESENT DRIVE A ?**  
- press : **RETURN**  
- appears : **I/O NUMERICAL CONTROL**  
**FILE NAME ?**
- 4.2.3 On the Computer : - type **IOCFIL** and press **RETURN**  
- appears : **ENABLE C.N.C.**  
**ENTER TO START**  
- press : **RETURN**
- 4.2.4 On the AB-OSAI Numerical Control press: **—** (Send)
- 4.2.5 At the end of transmission on the Computer appears:  
**END OF TRANSMISSION**  
**PRESS ANY KEY TO GO BACK TO THE MAIN MENU**  
On the Computer press : **RETURN**
- 4.2.6 At the end of transmission on the AB-OSAI Numerical Control  
appears : **FILMS 2 03 (= COMMAND EXECUTED)**  
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- 4.3.1 On the AB-OSAI Numerical Control, type: **COP, /PRO, PGCFIL/MPO** <sup>↗ zero</sup>
- 4.3.2 On the Computer : - select : **2**  
- appears : **I/O NUMERICAL CONTROL**  
**PRESENT DRIVE A ?**  
- press : **RETURN**  
- appears : **I/O NUMERICAL CONTROL**  
**FILE NAME ?**
- 4.3.3 On the Computer : - type **PGCFIL** and press **RETURN**  
- appears : **ENABLE C.N.C.**  
**ENTER TO START**  
- press : **RETURN**
- 4.3.4 On the AB-OSAI Numerical Control press: **—** (Send)
- 4.3.5 At the end of transmission on the Computer appears:  
**END OF TRANSMISSION**  
**PRESS ANY KEY TO GO BACK TO THE MAIN MENU**  
On the Computer press : **RETURN**
- 4.3.6 At the end of transmission on the AB-OSAI Numerical Control  
appears : **FILMS 2 03 (= COMMAND EXECUTED)**  
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- 4.4.1 On the AB-OSAI Numerical Control, type: **COP,/PRO,FCRSYS/MPO** ↗ zero
- 4.4.2 On the Computer : - select : 2  
 - appears : I/O NUMERICAL CONTROL  
 PRESENT DRIVE A ?  
 - press : **RETURN**  
 - appears : I/O NUMERICAL CONTROL  
 FILE NAME ?
- 4.4.3 On the Computer : - type **FCRSYS** and press **RETURN**  
 - appears : **ENABLE C.N.C.**  
**ENTER TO START**  
 - press : **RETURN**
- 4.4.4 On the AB-OSAI Numerical Control press: **↵** (Send)  
 On the screen appears : **FILMS 2 05** (= ALREADY EXISTING,  
 CANCEL ? (Y/N))
- Type: **Y + ↵** (Send)
- 4.4.5 At the end of transmission on the Computer appears:  
**END OF TRANSMISSION**  
**PRESS ANY KEY TO GO BACK TO THE MAIN MENU**  
 On the Computer press : **RETURN**
- 4.4.6 At the end of transmission on the AB-OSAI Numerical Control  
 appears : **FILMS 2 03** (= COMMAND EXECUTED)
- 

In JOB type **EDI,FCRSYS/MPO ↵** (Send), go to section 2 (\*2)  
 and check the following lines are as follow :

```
XAREAD,.....
;XAPROM,.....
;XAPUNC,.....
;XAT485,.....
```

that's **ONLY** the **XAREAD...** line is activated while the other  
 lines related to serial communication (that's **XAPROM**, **XAPUNC**,  
**XAT485**) are disactivated by the **;** (semicolon).  
 Do not modify the other lines of section 2 (\*2).

At the end press **⏏ + ⏏** in order to return in JOB.

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- 4.5.1 On the AB-OSAI Numerical Control, type: **COP,/PRO,EDPERR/MPO** ↗ zero
- 4.5.2 On the Computer : - select : 2  
 - appears : I/O NUMERICAL CONTROL  
 PRESENT DRIVE A ?  
 - press : **RETURN**  
 - appears : I/O NUMERICAL CONTROL  
 FILE NAME ?
- 4.5.3 On the Computer : - type **EDPERR** and press **RETURN**  
 - appears : **ENABLE C.N.C.**  
**ENTER TO START**  
 - press : **RETURN**
- 4.5.4 On the AB-OSAI Numerical Control press: **↵** (Send)  
 On the screen appears : **FILMS 2 04** (= ALREADY EXISTING,  
 UPDATE ? (Y/N))
- Type: **Y + ↵** (Send)



- 4.5.5 At the end of transmission on the Computer appears:  
 END OF TRANSMISSION  
 PRESS ANY KEY TO GO BACK TO THE MAIN MENU  
 On the Computer press : **RETURN**
- 4.5.6 At the end of transmission on the AB-OSAI Numerical Control  
 appears : **FILMS 2 03** (= COMMAND EXECUTED)  
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- 4.6.1 On the AB-OSAI Numerical Control, type: **COP, /PRO, EDPMMSG/MPO** ↗ zero
- 4.6.2 On the Computer : - select : 2  
 - appears : I/O NUMERICAL CONTROL  
 PRESENT DRIVE A ?  
 - press : **RETURN**  
 - appears : I/O NUMERICAL CONTROL  
 FILE NAME ?
- 4.6.3 On the Computer : - type **EDPMMSG** and press **RETURN**  
 - appears : **ENABLE C.N.C.**  
**ENTER TO START**  
 - press : **RETURN**
- 4.6.4 On the AB-OSAI Numerical Control press: **↵** (Send)  
 On the screen appears : **FILMS 2 04** (= ALREADY EXISTING,  
 UPDATE ? (Y/N))
- Type: **Y + ↵** (Send)
- 4.6.5 At the end of transmission on the Computer appears:  
 END OF TRANSMISSION  
 PRESS ANY KEY TO GO BACK TO THE MAIN MENU  
 On the Computer press : **RETURN**
- 4.6.6 At the end of transmission on the AB-OSAI Numerical Control  
 appears : **FILMS 2 03** (= COMMAND EXECUTED)  
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- 4.7.1 On the AB-OSAI Numerical Control, type: **COP, /PRO, IOERRM/MPO** ↗ zero
- 4.7.2 On the Computer : - select : 2  
 - appears : I/O NUMERICAL CONTROL  
 PRESENT DRIVE A ?  
 - press : **RETURN**  
 - appears : I/O NUMERICAL CONTROL  
 FILE NAME ?
- 4.7.3 On the Computer : - type **IOERRM** and press **RETURN**  
 - appears : **ENABLE C.N.C.**  
**ENTER TO START**  
 - press : **RETURN**
- 4.7.4 On the AB-OSAI Numerical Control press: **↵** (Send)  
 On the screen appears : **FILMS 2 04** (= ALREADY EXISTING,  
 UPDATE ? (Y/N))
- Type: **Y + ↵** (Send)
- 4.7.5 At the end of transmission on the Computer appears:  
 END OF TRANSMISSION  
 PRESS ANY KEY TO GO BACK TO THE MAIN MENU  
 On the Computer press : **RETURN**
- 4.7.6 At the end of transmission on the AB-OSAI Numerical Control  
 appears : **FILMS 2 03** (= COMMAND EXECUTED)  
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- 4.8.1 On the AB-OSAI Numerical Control, type: COP,<sup>→ zero</sup>/PRO,PROERR/MPO
- 4.8.2 On the Computer : - select : 2  
- appears : I/O NUMERICAL CONTROL  
PRESENT DRIVE A ?  
- press : RETURN  
- appears : I/O NUMERICAL CONTROL  
FILE NAME ?
- 4.8.3 On the Computer : - type PROERR and press RETURN  
- appears : ENABLE C.N.C.  
ENTER TO START  
- press : RETURN
- 4.8.4 On the AB-OSAI Numerical Control press: — (Send)  
On the screen appears : FILMS 2 04 (= ALREADY EXISTING,  
UPDATE ? (Y/N))  
Type: Y + — (Send)
- 4.8.5 At the end of transmission on the Computer appears:  
END OF TRANSMISSION  
PRESS ANY KEY TO GO BACK TO THE MAIN MENU  
On the Computer press : RETURN
- 4.8.6 At the end of transmission on the AB-OSAI Numerical Control  
appears : FILMS 2 03 (= COMMAND EXECUTED)  
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- 4.9.1 On the AB-OSAI Numerical Control, type: COP,<sup>→ zero</sup>/PRO,MESSAG/MPO
- 4.9.2 On the Computer : - select : 2  
- appears : I/O NUMERICAL CONTROL  
PRESENT DRIVE A ?  
- press : RETURN  
- appears : I/O NUMERICAL CONTROL  
FILE NAME ?
- 4.9.3 On the Computer : - type MESSAG and press RETURN  
- appears : ENABLE C.N.C.  
ENTER TO START  
- press : RETURN
- 4.9.4 On the AB-OSAI Numerical Control press: — (Send)  
On the screen appears : FILMS 2 04 (= ALREADY EXISTING,  
UPDATE ? (Y/N))  
Type: Y + — (Send)
- 4.9.5 At the end of transmission on the Computer appears:  
END OF TRANSMISSION  
PRESS ANY KEY TO GO BACK TO THE MAIN MENU  
On the Computer press : RETURN
- 4.9.6 At the end of transmission on the AB-OSAI Numerical Control  
appears : FILMS 2 03 (= COMMAND EXECUTED)
- 4.10 Power OFF then Power ON the AB-OSAI Numerical Control.
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## ORIGINS FILE FORMATTING

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(Example regarding a machine with 4 axes)

- 5.1 Press: P0
  - 5.2 Type: EDI,FORMAT/MP0   ┐ (Send)
  - 5.3 Type: I2A1L4A1L4A1L4A1L4   ┐ (Send) +  +   
(This example is regarding a 4 axes machine. For different machines repeat A1L4 for the Number of axes)
  - 5.4 Type: FOR,FI1EOR/MP0,10   ┐ (Send)
  - 5.5 Press P0 and then P3 in order to move to the main page  
(SUBSYSTEM)
  - 5.6 Type: CAO   ┐ (Send) + answer with Y +   ┐ (Send)
  - 5.7 Perform the Reference Point (Zero Point) af ALL the axes
  - 5.8 Type: ORA,0,X,Y,Z,...   ┐ (Send)
- NOTE: It is necessary to type the name of ALL the Axes.
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## TOOL-OFFSET FILE FORMATTING

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- 6.1 Press: P0
- 6.2 Type: EDI,FORMAT/MP0   ┐ (Send)
- 6.3 Edit the File with the writing: I2A1L3A1L3   ┐ (Send) +  
 +
- 6.4 Type: FOR,FI1COR/MP0,32   ┐ (Send)
- 6.5 Press P0 and then P3 in order to move to the main page  
(SUBSYSTEM)
- 6.6 Type: CAC   ┐ (Send) + answer with Y +   ┐ (Send)
- 6.7 For ALL Tool-Offsets it is necessary to insert the letter Z  
(length) and K (diameter) separated by a comma.  
In SUBSYSTEM type: |V 1,Z,K   ┐ (Send)  
                          |V 32,Z,K   ┐ (Send)  
                          └ 'TOOL-OFFSET' key