

## CNC MACHINES ELECTRICAL RECORD

|  |                                 |                       |  |
|--|---------------------------------|-----------------------|--|
| MODEL<br>ZEROTURN  | MACHINE SERIAL No.<br>ZT 20049A | DESPATCH DATE         | CUSTOMER DUNDEE<br>INSTITUTE OF TECHNOLOGY |
| ADDRESS DUNDEE INSTITUTE OF TECHNOLOGY, DEPT OF MECH & IND. ENG.<br>BELL STREET, DUNDEE, DD1 1HG |                                 |                       | ORDER No.<br>M1083                         |
| INPUT SUPPLY DETAILS   | VOLTS<br>415                    | PHASE<br>3            | Hz<br>50                                   |
| CURRENT DEMAND<br>PER PHASE 36A  |                                 |                       |  |
| CONTROL SUPPLIER<br>FANUC  | MODEL<br>0M-B                   | SERIAL No.<br>8124513 | SOFTWARE VERSION<br>0615-11                |

## MOTORS

|                | MAKE            | MODEL                  | SERIAL No. | Nm  | VOLTS | Hz | PHASE | HP/KW |
|----------------|-----------------|------------------------|------------|-----|-------|----|-------|-------|
| SPINDLE        | FANUC           | A06B-6055<br>B100#7000 |            |     | 200   |    | 3     | 5.5   |
| X AXIS         | FANUC           | A06B-0313<br>B002#7000 | G-805783   | 2.9 | 91    |    | 3     |       |
| Y AXIS         | N/A             |                        |            |     |       |    |       |       |
| Z AXIS         | FANUC           | A06B-0313<br>B002#7000 | G-809169   | 2.9 | 91    |    | 3     |       |
| 4th AXIS       | N/A             |                        |            |     |       |    |       |       |
| TOOLCHANGER    | BARUFFALDI      | RH80-6                 |            |     | 110   | 50 | 3     |       |
| COOLANT        | GRUNDFOS        |                        |            |     | 415   | 50 | 3     |       |
| LUBE           | SIEBE INTERLUBE | LUBEPLUS               |            |     | 240   | 50 | 1     |       |
| HEAD           | N/A             |                        |            |     |       |    |       |       |
| SWARF CONVEYOR | NECO            | 25.4.76                | 123367/2   |     | 415   | 50 | 3     |       |

## DRIVES

|          | MAKE  | MODEL             | SERIAL No.  |
|----------|-------|-------------------|-------------|
| SPINDLE  | FANUC | A06B-6055<br>H103 | K85-04430-A |
| X AXIS   | FANUC | A06B-6058<br>H223 | F91-16538-A |
| Y AXIS   | N/A   |                   |             |
| Z AXIS   | FANUC | A06B-6058<br>H223 | F91-16538-A |
| 4th AXIS | N/A   |                   |             |

## ENCODERS

|          | MAKE  | MODEL                  | SERIAL No. |
|----------|-------|------------------------|------------|
| SPINDLE  | FANUC | A86L-0027<br>0001#002  |            |
| X AXIS   | FANUC | A06B-0313<br>0002#7000 |            |
| Y AXIS   | N/A   |                        |            |
| Z AXIS   | FANUC | A06B-0313<br>0002#7000 |            |
| 4th AXIS | N/A   |                        |            |

# CNC MACHINES ELECTRICAL RECORD

|  |                                 |               |   |
|--|---------------------------------|---------------|---|
| MODEL<br>ZEROTURN  | MACHINE SERIAL No.<br>ZT 20049A | DESPATCH DATE | CUSTOMER<br>DUNDEE<br>INSTITUTE OF TECHNOLOGY |
| CONTROL OPTIONS FITTED                                   |                                 |               | ORDER NUMBER<br>M1083                         |
|  |                                 |               |   |
| POWER CHUCK CONTROL                                      |                                 |               |   |
| PROGRAMMABLE TAILSTOCK                                   |                                 |               |   |
| N/A  |                                 |               |   |
| BARFEED  |                                 |               |   |
| N/A  |                                 |               |   |
| PNEUMATIC VICE   |                                 |               |   |
| N/A  |                                 |               |   |
| SCHEMATIC DRAWING NUMBERS                                |                                 |               |   |
| A3-31006,14,17,23,31-34,502,507,515,516,521-524,526-528. |                                 |               |   |
| PANEL DIAGRAM NUMBER(S)                                  |                                 |               |   |
| A3-310518/C,529,531-533                                  |                                 |               |   |
| LADDER DIAGRAM NUMBER                                    |                                 |               |   |
| P.L.C. 2.019   |                                 |               |   |
| COMMENTS / NOTES   |                                 |               |   |
|  |                                 |               |   |
|  |                                 |               | SIGNATURE<br>M IRONMONGER                     |

\_\_\_\_\_

|       |   |   |
|-------|---|---|
| N0900 | P | <u>0</u> <u>0</u> <u>1</u> <u>1</u> <u>1</u> <u>0</u> <u>0</u> <u>0</u> |
| N0901 | P | <u>1</u> <u>1</u> <u>1</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0902 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>1</u> <u>0</u> <u>0</u> |
| N0903 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>1</u> <u>0</u> <u>0</u> |
| N0904 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0905 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>1</u> |
| N0906 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>1</u> |
| N0907 | P | <u>0</u> <u>1</u> <u>0</u> <u>1</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0908 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0909 | P | <u>0</u> <u>1</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0910 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0911 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0912 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| N0913 | P | <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> |

[illegible]

## FANUC OT MODEL B DATA SHEET

トワイナメ:

CUSTOMER:

CONTRACT NO.: Y 45999 -000

MODEL NO.: A02B-0091-B501

SERIAL NO.:

SETTING OF INPUT: 81245N

DATE OF MANUFACTURE: DEC. 1988

DATE OF TEST: JAN 9. 1989

CHECKED BY: M. MOMOSE

\*\*\*\*\*

SPECIAL

PARAMETER

SETTING

\*\*\*\*\*

|      |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |
|------|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|
| N900 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | N909 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| N901 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | N910 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N902 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | N911 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N903 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | N912 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N904 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N913 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N905 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | N914 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N906 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | N915 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N907 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | N916 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N908 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N917 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## \* EDITION OF PRINTED BOARD &amp; ROM

NAME

:EDIT::

NAME

:EDIT::

NAME

:EDIT:

A16B-1010-02B6

:15B

A16B-1211-0301

:04A

A02B-0091-B501#0615 #K

| NAME                          | ヒンメイ               | SPECIFICATION       | ORDR |
|-------------------------------|--------------------|---------------------|------|
| *MDI & CRT                    | *MDI & CRT         | A02B-0083-C102      | 1    |
| POWER SOURCE UNIT A           | 電源ユニット A           | A02B-0083-H011      | 1    |
| BATTERY UNIT                  | バッテリーユニット          | A02B-0083-H021      | 1    |
| I/O CARD C2                   | I/O カード C2         | A02B-0083-H031      | 1    |
| MASTER PCB (2 AXES)           | マスタープリントボード 2      | A02B-0091-H005      | 1    |
| *NAME PLATE (GEFANUC OT)      | *インシヨウメイプレート       | A02B-0091-H197      | 1    |
| DIGITAL SV FUNCTION (STD)     | デジタルサーボ機能          | A02B-0091-H690#9020 | 1    |
| POSITION CODER INTERFACE      | PC インターフェース        | A02B-0091-J100      | 1    |
| BASIC FUNCTION                | 基本機能               | A02B-0091-H501#0615 | 1    |
| READER PUNCHER INTERFACE      | リーダ・パンチ            | A02B-0091-J800      | 1    |
| CONTROL 1                     | インタフェースセイク 1       |                     |      |
| INCH/METRIC CONVERSION        | インチ/メートル変換         | A02B-0091-J801      | 1    |
| RUN TIME & PARTS Q'TY DISPLAY | カットタイム・パーツ数量表示     | A02B-0091-J802      | 1    |
| MENU PROGRAMING               | メニュープログラム          | A02B-0091-J806      | 1    |
| TOOL NOSE RADIUS COMPENSATION | ノーズ半径補正            | A02B-0091-J812      | 1    |
| MANUAL HANDLE FEED 1 UNIT     | 手動1インチ/分送り         | A02B-0091-J824      | 1    |
| MULTIPLE REPETITIVE CYCLES    | 複数反復サイクル           | A02B-0091-J840      | 1    |
| S4/S5 DIGITS INSTRUCTION      | S4/S5桁指示           | A02B-0091-J843      | 1    |
| CONSTANT SURFACE SPEED CONT.  | 等速制御               | A02B-0091-J844      | 1    |
| ACTUAL SPINDLE SPEED OUTPUT   | 実際のスピンドル速度出力       | A02B-0091-J848      | 1    |
| CHAMFERING/CORNER R           | 面取り/コーナー R         | A02B-0091-J853      | 1    |
| EXTERNAL MESSAGE              | 外部メッセージ            | A02B-0091-J859      | 1    |
| PMC-MODEL L FUNCTION (3000S)  | PMC-MODEL L 機能     | A02B-0091-J890      | 1    |
| *PUNCH PANEL (2M)             | *パンチパネル (2M)       | A02B-0072-C062      | 1    |
| *OPERATOR'S PANEL             | *オペレータパネル          | A02B-0083-C141      | 1    |
| *INPUT UNIT FOR CONTROL UNIT  | *制御ユニット入力ユニット (A2) | A14B-0076-B001      | 1    |
| *MULTI-TAP TRANSFORMER        | *マルチタップ変圧器         | AB0L-0001-0176      | 1    |
| *MANUAL PULSE GENERATOR       | *手動パルス発生器          | AB60-0201-T001      | 1    |

THIS SHEET MUST BE FILLED IN BY THE USER. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE.

I T E M

: 1ST AXIS: 2ND AXIS: 3RD AXIS: 4TH AXIS: 5TH AXIS

COMMAND MULTIPLYING RATIO

:

1

:

1

:

1

:

1

:

1

POSITION LOOP GAIN

(1/SEC)

:

30

:

30

:

30

:

30

:

30

PULSE CORDER : DMR

:

4

:

4

:

4

:

4

:

4

THERMAL CURRENT

(A)

:

\*

:

\*

:

\*

:

\*

:

\*

STEP 4:

M

AC

\*\*

RV SETTING

RV 1

:

RV 1

:

RV 1

:

:

:

:

:

:

RV 2

:

RV 2

:

RV 2

:

:

:

:

:

:

RV 3

:

RV 3

:

RV 3

:

:

:

:

:

:

VELOCITY

RV 4

:

RV 4

:

RV 4

:

:

:

:

:

:

RV 5

:

RV 5

:

RV 5

:

:

:

:

:

:

CONTROL

RV 6

:

RV 6

:

RV 6

:

:

:

:

:

:

RV 7

:

RV 7

:

RV 7

:

:

:

:

:

:

RV 8

:

RV 8

:

RV 8

:

:

:

:

:

:

RV 9

:

RV 9

:

RV 9

:

:

:

:

:

:

RV12

:

RV12

:

RV12

:

:

:

:

:

:

RV13

:

RV13

:

RV13

:

:

:

:

:

:

HOLD

(MAX)

:

:

:

:

:

:

MOTOR

CUTTING FEED:

:

:

:

:

:

:

CURRENT

RAPID TRAV

:

:

:

:

:

:

: MOTOR: 00M: 0M: 5M: 10M: 20M: 30M: 30MH: 40: 50: 60: 60H: 0: 5: 10: 20: 30: 10H: 20H: 30H:

: (A) : 4 : 6: 9: 12: 18: 24: 36 : 45: 95: 95: 140: 14: 14: 24: 33: 33: 33: 54: 54:

\*\* ONLY SETTING VALUES DIFFERENT FROM STANDARD SETTING MUST BE MARKED.

I T E M

:

3 7 5 7

:

SPECIFICATION (3/37)

: ORDER