



BT CNC Lathe Course

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Electric Manual

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AERO CNC MAHINERY CO., LTD.

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E08.THE RELAY BOARD POWER (AERO-02-1A1)

ELECTRIC CIRCUIT DIAGRAM CONTENTS

F.CONTROL CIRCUIT (LINE UNIT)

- F01.FANUC(AI) CONTROL CIRCUIT (FANUC LCD→AMP→MOTOR)
- F02.FANUC(BI) CONTROL CIRCUIT (FANUC LCD→AMP→MOTOR)
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- F09.SERVO TURRET CONNECTION
- F10.BAR FEEDER INTERFACE
- F11.AUTO TOOL SETTER (HUDRAULIC TURRET)
- F12.AUTO TOOL SETTER (SERVO TURRET)

G.THE RELAY BOARD (CABLE CODE & CABLE NAME)

- G01.AERO-3R (HUDRAULIC TURRET)
- G02.AERO-3R (SERVO TURRET)
- G03.AERO-36R
- G04.AERO-36R (HUDRAULIC TURRET)
- G05.AERO-36R (SERVO TURRET)
- G06.AERO-I2A0
- G07.AERO-02-1A1 (HUDRAULIC TURRET)
- G08.AERO-02-1A1 (HUDRAULIC TURRET)
- G09.AERO-02-1A1 (SERVO TURRET)
- G10.AERO-02-1A1 (SERVO TURRET)
- G11.AERO 309-I2A0 (HANDLE TOOL SETTER)
- G12.IR-50 (AUTO TOOL SETTER)

H.THE RELAY BOARD CONNECTS

- H01.EMERGENCY STOP CIRCUIT(KA1 , KA2 , KA3 , KA5)
- H02.THE POWER CONTROL OF RELAY BOARD(PC+ , KA4 , KA6 , KA28)
- H03.RELAY (KA7-KA12)
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ELECTRIC CIRCUIT DIAGRAM CONTENTS

H.THE RELAY BOARD CONNECTS

- H05.HUDRAULIC TURRET (KA19-KA26)
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- H07.RELAY (KA27-KA32)
- H08.RELAY (KA33-KA36)
- H09.RELAY (KA37-KA38)
- H10.HUDRAULIC TURRET (KA39-KA44)
- H11.HUDRAULIC TURRET (KA45-KA50)
- H12.HUDRAULIC TURRET (KA51-KA54)
- H13.SERVO TURRET (KA39-KA44)
- H14.SERVO TURRET (KA45-KA50)
- H15.SERVO TURRET (KA51-KA54)
- H16.HANDLE TOOL SETTER (KA55-KA58)

I.FANUC I/O CIRCUIT (INPUT)

- I01.HANDLE TOOL SETTER CE56-2 (X4.0-X5.7)
- I02.AUTO TOOL SETTER CE56-2 (X4.0-X5.7)
- I03.HUDRAULIC TURRET CE56-1 (X8.0-X9.7)
- I04.HUDRAULIC TURRET CE56-1 (X10.0-X10.7) & CE57-1 (X11.0-X11.7)
- I05.SERVO TURRET CE56-1 (X8.0-X9.7)
- I06.SERVO TURRET CE56-1 (X10.0-X10.7) & CE57-1 (X11.0-X11.7)
- I07.CE57-1 (X12.0-X13.7)
- I08.CE56-0 (X14.0-X15.7)
- I09.CE56-0 (X16.0-X16.7) & CE57-0 (X17.0-X17.7)
- I10.CE57-0 (X18.0-X19.7)

O.FANUC I/O CIRCUIT (OUTPUT)

- O01.CE56-0 (Y0.0-Y0.7)
- O02.CE56-0 (Y1.0-Y1.7)
- O03.CE57-0 (Y2.0-Y2.7)
- O04.CE57-0 (Y3.0-Y3.7)
- O05.HUDRAULIC TURRET CE56-1 (Y4.0-Y4.7)
- O06.HUDRAULIC TURRET CE56-1 (Y5.0-Y5.7)

ELECTRIC CIRCUIT DIAGRAM CONTENTS

O.FANUC I/O CIRCUIT (OUTPUT)

- O07.SERVO TURRET CE56-1 (Y4.0-Y4.7)
- O08.SERVO TURRET CE56-1 (Y5.0-Y5.7)
- O09.HUDRAULIC TURRET CE57-1 (Y6.0-Y6.3)
- O10.HUDRAULIC TURRET CE57-1 (Y6.4-Y6.7)
- O11.HUDRAULIC TURRET CE57-1 (Y7.0-Y7.3)
- O12.HUDRAULIC TURRET CE57-1 (Y7.4-Y7.7)
- O13.SERVO TURRET CE57-1 (Y6.0-Y6.3)
- O14.SERVO TURRET CE57-1 (Y6.4-Y6.7)
- O15.SERVO TURRET CE57-1 (Y7.0-Y7.3)
- O16.SERVO TURRET CE57-1 (Y7.4-Y7.7)

P.THE COMPOSITE LINE

- P01.JA7A \leftrightarrow JA7B CONNECTION
- P02.JD1A \leftrightarrow JD1B CONNECTION
- P03.JYA3 \leftrightarrow P/CODER CONNECTION (ENCODER)
- P04.JYA2 \leftrightarrow SP.MTR CONNECTION (SPINDLE ENCODER)
- P05.JF1 \leftrightarrow X-ENCODER & JF2 \leftrightarrow Z-ENCODER CONNECTION
- P06.JD36A \leftrightarrow RS232 CONNECTION
- P07.SERVO TURRET-CN1B CONNECTION
- P08.SERVO TURRET-CN2 CONNECTION