TP1

R37 1K

Q10 2SD1023 1W.5 R19

CR16 SIV20

CR17,(18) 24V ZENER

ND7 1 U4 2 7406

FOR BOTTOM NEEDLE

+24V

PF HOLD 5 U4 6 7406

R38 3.9K

R58 10K

Q23 CR29 R59 220 5W 2.5W ZENER

2SB601 1N4002

CR28

R36 1K

Q9 2SD1023 1W.5 R18

CR15 SIV20

ND6 3 U4 4 7406

+5V R44 1K

Q15 2SD1023 1W1 R24

CR27 1N4002

PM0 11 10 7406

P5 J5

R35 1K

Q8 2SD1023 1W.5 R17

CR12 SIV20

CR13,14 24V ZENER

ND5 9 U3 8 7406

R45 1K

Q16 2SD1023

CR26 1N4002

PM1 3 4 7406

7 7

11 11

A

B PF MOTOR

R34 1K

Q7 2SD1023 1W.5 R16

CR11 SIV20

ND4 11 U3 10 7406

R46 1K

Q17 2SD1023 1W1 R25

CR25 1N4002

PM2 13 12 7406

8 8

C

R32 1K

Q6 2SD1023 1W.5 R15

CR8 SIV20

CR9,10 24V ZENER

ND3 1 U3 2 7406

R47 1K

Q18 2SD1023 1W1 R26

PM3 9 8 7406

9 9

D

NC 12 12
NC 13 13
NC 14 14

1W1 R27

+24VGND

12 12

10 10

R33 1K

Q5 2SD1023 1W.5 R14

CR7 SIV20

ND2 13 U3 12 7406

+24V/14V +24V 1A

R69 10K

R62 100 10W

Q19 CR23 2.5W ZENER

CR HOLD 13 U4 12 7406

R39 3.9K

2SB601 1N4002

CR20

R30 1K

Q4 2SD1023 1W.5 R13

CR4 SIV20

CR5,(6) 24V ZENER

ND1 5 U3 6 7406

R42 1K

Q13 2SD1023 1W1 R22

CR19 1N4002

HM0 1 2 7406

3 3

A

B CR MOTOR

+24V

FOR TOP NEEDLE

R43 1K

Q14 2SD1023

CR21 1N4002

HM1 5 4 7406

6 6

R31 1K

Q3 2SD1023 1W.5 R12

CR3 SIV20

ND0 3 U3 4 7406

1W1 R23

4 4

+24VGND

R41 1K

Q12 2SD1023 1W1 R21

CR22 1N4002

HM2 11 10 7406

2 2

C

+5V R11 3.9K

Q2 2N4403 2SA1015

R40 1K

Q11 2SD1023 1W1 R20

HM3 9 8 7406

5 5

D

+24VGND

1 1

RES PBO

+5V

R70 1K

R29 3.9K

CR35 1N4148

R73 30K

+VCC
6 TH
2 TR
4 R U17
5 CV
DIS GND
LM555
8

O 3

R71 2.2K

Q25 2N4401 2SC1815

+5VGND

C15 0.1 100V

C9 470PF

C10 .01

J2 P2

R1 150

+5V

11 U1 10 RTP SENCE 74LS14

R72 15K

SOLDER TERMINAL

+5V GND

R2 47K

47KR3 15KR4

9 U1 8 HP SIGNAL

+5VGND

C11 1000PF

APU

PAPER EMPTY SENSE

1
4
2
5
8
3
7

C1 470PF C2 470PF

PE SENCE

+5VGND

+5V GND

2. CAPACITANCE VALUES ARE IN MICROFARADS, 50V.
1. RESISTANCE VALUES ARE IN OHMS, 1/4W ±5%.
NOTE - UNLESS OTHERWISE SPECIFIED

SCHEM DIAGRAM
2033P
K.TAKAGI
SIZE 8023013 REV

SCHEM DIAGRAM
8023P
SIZE B   8023013   REV B
SHEET 2 OF 3

POWER SWITCH P8 J8 J6 P6

VR1
S13554M ON HEAT SINK

1.5A 250V
FUSE

LIVE

WHITE

AC
LINE GROUND

BLK

NEUT

CHASSIS
GND

C38
0.1

C40
0.0047

C39
0.0047

BLK
RED
WHT

CR37
4A/50V

J9
P9

+5V

C19
4700
16V

C18
0.1
50V

C17
330
16V

C16 C20—C37
0.1
50V

+5V GND

CR36
4A/50V

Q26 2SB554 ON HEAT SINK
E B C KEY

J7
P7

2SD560
Q24

+24V

C14
6800/50V

R61
10K

R60
C13 10/35V 820
28V ZENER

CR34
100/35V

C12

Q22 CR33
2SB601 SIV20

+14V/24V

R57
10K

Q20 Q21 CR32
2SD560 2SB601 SIV20

R53
2K

R55
R54 10K
R56 3.9K
3.9K

+5V

1K R52

CONDENSE

C6
10/35V

CR31
17V
ZENER

10 11 12 13

7406 7406

8 9

7406

+24V GND

1 ⊕ MARKED CIRCUIT IS AS FOLLOWING.

UL AND BSI MUST BE OPEN TERMINAL NO.3.

JIS AND VDE MUST BE OPEN TERMINAL NO.4.

NOTE

SCHEM DIAGRAM

K.TAKAGI

SIZE 8023013 REV
B SHEET 3 OF 3 B

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