BULKHEAD 57-8539A

CB1
15A

10-3971A

FL1

10-3513C

BLK 12 or BRN 2.5
WHT 12 or BLU 2.5
GRN 12 or G/Y 2.5

240V
NEUT
GND

11 12
21 22

240V BLK 12
NEUT WHT 12
GND GRN 12

EMI Filter
20A
13-3570
LINE IN
LOAD OUT

BLK 12 240V [2]
WHT 12 NEU [2]TO PDB (J12)
GRN 12 GND [2]

ON/OFF CIRCUIT BREAKER
15-3085

ATTACHED POWER CORD

16-4030A
NORTH AMERICAN POWER SUPPLY CORD
TYPE: CSA/UL, 12/3 AWG
PLUG: L6-20P, LOCKING TYPE, rated 20A, 250V

16-4190A
EUROPEAN POWER SUPPLY CORD
TYPE: HAR, H05VVF, 2.5 sq. mm
PLUG: IEC 309, rated 16A, 250V

GND
M5 BOLT
CHASSIS

GND
M5 BOLT
CHASSIS

NOTE: WIRE IS GREEN,
MARKED WITH A
GREEN/YELLOW PIECE
OF HEATSHRINK ON EACH END
18-3329

10-4053B

J-TABLE_FANS_PDB

10-4055C

240V BRN 18
NEUT BLU 18
GND G/Y 18

240V BLK 18
NEUT WHT 18
GND G/Y 18

GND
M4 BOLT
CHASSIS

MATE1X3
BACKSHELL

MATE1X3
BACKSHELL

FAN5
15-3122
TABLE FAN

FAN6
15-3122
TABLE FAN

FAN7
15-3122
TABLE FAN

FAN BOX

FROM FAN BOX [2]
PDB(J5)

J- FAN4_PDB

10-1436A

FAN4

240V AC FAN
15-3191

240V BLK 18
NEUT WHT 18
GND G/Y 18

MATE1X3
BACKSHELL

MATE1X3
BACKSHELL

FANBOX FAN

10-3563B

J- B1

240V BLK 18
NEUT WHT 18
GND G/Y 18

NC
NC
NC

UNUSED RECEPTACLE IS TIE WRAPPED
TO PLUG TO BLOCK ACCESS TO PINS.

MATE1X3
BACKSHELL

MATE1X3

GND
M4 BOLT
CHASSIS

FLEXO WIRING PAGES (40M)

POWER & SAFETY LOOP
THIS PAGE

POWER CONNECTIONS
73-3314A-D-WD02.SCH

EXPOSURE HEAD POWER
73-3314A-D-WD03.SCH

SIGNAL CONNECTIONS
73-3314A-D-WD04.SCH

SELV CIRCUITRY

SW1
15-3239
SERVICE OVERRIDE
KEY SWITCH
3 POSITIONS

CENTER
(LASER/MECH HAZARDS) UP DOWN (MECHANICAL HAZARDS)

WHT 22
BLK 22

RED 22
BRN 22

22 24 14 12
21 23 13 11

36-3145
PLATE
FLY-OFF TX

10-4740A

BRN 22 +12V
BLU 22 RTN

BLK 22 RTN
ORG 22 +12V

10-4412A
GND
+12V
TO PDB (J17)
AND K3 [3]

10-3723A

MECH(NO) RED 22
+12V(S) ORG 22
+12V(S) ORG 22
LASER/MECH(NO) WHT 22
DOOR(SW) BRN 22
MECH(NC) BRN 22
DOOR(SW) BLK 22
LASER(NC) BLK 22

ORG 22
BRN 22
BLK 22
BLK 22

MTA1X8
J3

J10
J9

NC

RELAY DELAY
CONTROL BOARD (PWB)

10-3701D

10-3721A
LP1
+12V RED 24
RTN BLK 24

10-3721A
LP2
+12V RED 24
RTN BLK 24

CON1X2
J5

CON1X2
J6

+12V ORG 22
DOOR+ BRN 22
ABORT+ WHT 22
RTN BLK 22

MTA1X4
J7

10-3782A

FROM BACKPLANE [4]
(J19)

10-1440C

FROM PDB (J2-1) [2] 240V BLK 18 2 4 BLK 18 [2] TO PS3
FROM PDB (J7-3) [2] 240V BLK 16 6 8 BLK 16 [2] TO MAIN DRIVE AMPLIFIER J1
10-3497C

NON-SELV CIRCUITRY
200-240 VAC

ORG 22 0 K2 1 BLK 22

15-3144
SWITCHES
DRUM & CARRIAGE
MOTOR POWER

10-3722A

J2 MATE1X2
ORG 22 +12V
BLK 22 RTN

10-4396B

FROM K5, PIN 4 [4] NEUT WHT 18 2 4 BLU 18
FROM K5, PIN 8 [4] 240V BLK 18 6 8 BRN 18

10-4053B

ORG 22 0 K4 1 BLK 22

15-3144

THIS RELAY SWITCHES
FLOAT FANS POWER
(1 OF 2: SAFETY RELAY)

10-4397A

J1 MTA1X3
ORG 22 +12V
BLK 22 RTN
NC

10-3784A

J4 MTA1X2
RED 22 +12V
BLK 22 +12V

SW2
15-3066
EMERGENCY STOP
DPST- NC

RED 22 11 12
RED 22 21 22
Drum Lower Front

J8 MATE1X4
RED 22 +12V
RED 22 DOOR+
BLK 22 ABORT+
NC

BLK 22

10-3838A

RED 22
RED 22

SW5 PFO SWITCH DPST- NC 15-3263
Right Side Panel Operator Access

SW6 PFO SWITCH DPST- NC 15-3263
Front Left Panel Service Access

SW7 PFO SWITCH DPST- NC 15-3263
Front Center Panel Operator Access

SW8 PFO SWITCH DPST- NC 15-3263
Front Right Panel Service Access

SW9 PFO SWITCH DPST- NC 15-3263
Right Side Cover Operator Access

SW10 PFO SWITCH DPST- NC 15-3263
Fan Box Panel Operator Access

SW11 PFO SWITCH DPST- NC 15-3263
Rear Center Panel Services Access

SW12 PFO SWITCH DPST- NC 15-3263
Hinged Table Operator Access

SW3
15-3066
EMERGENCY STOP
DPST- NC
Flash Cover Left Operator Access

SW4
15-3066
EMERGENCY STOP
DPST- NC
Flash Cover Right Operator Access

BLACK 22
RED 22

10-3914A

RED 22
RED 22
NC
NC

10-3838A

10-3829A

[4] TO TEE BOARD (J6)

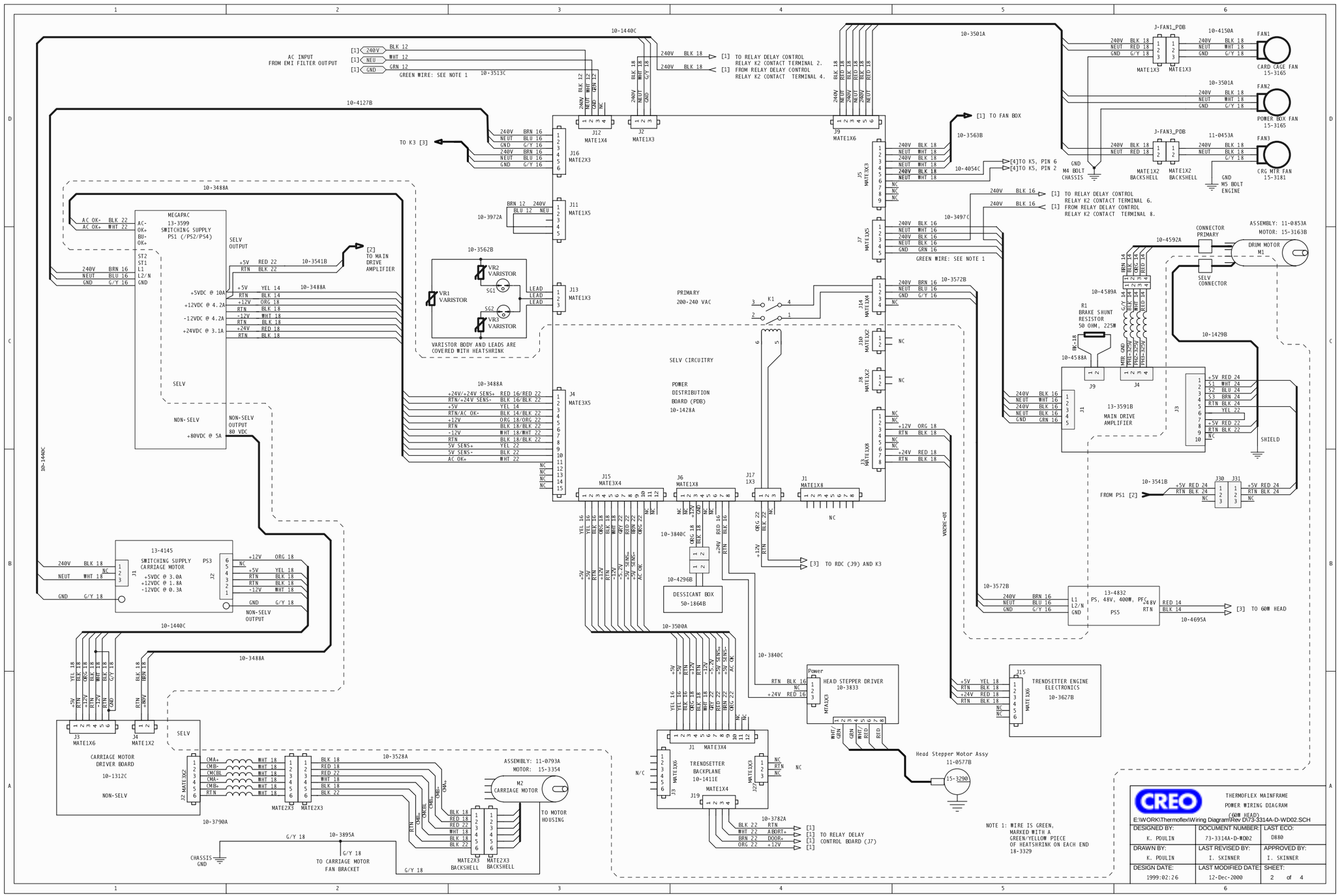
SELV CIRCUITRY

CREO

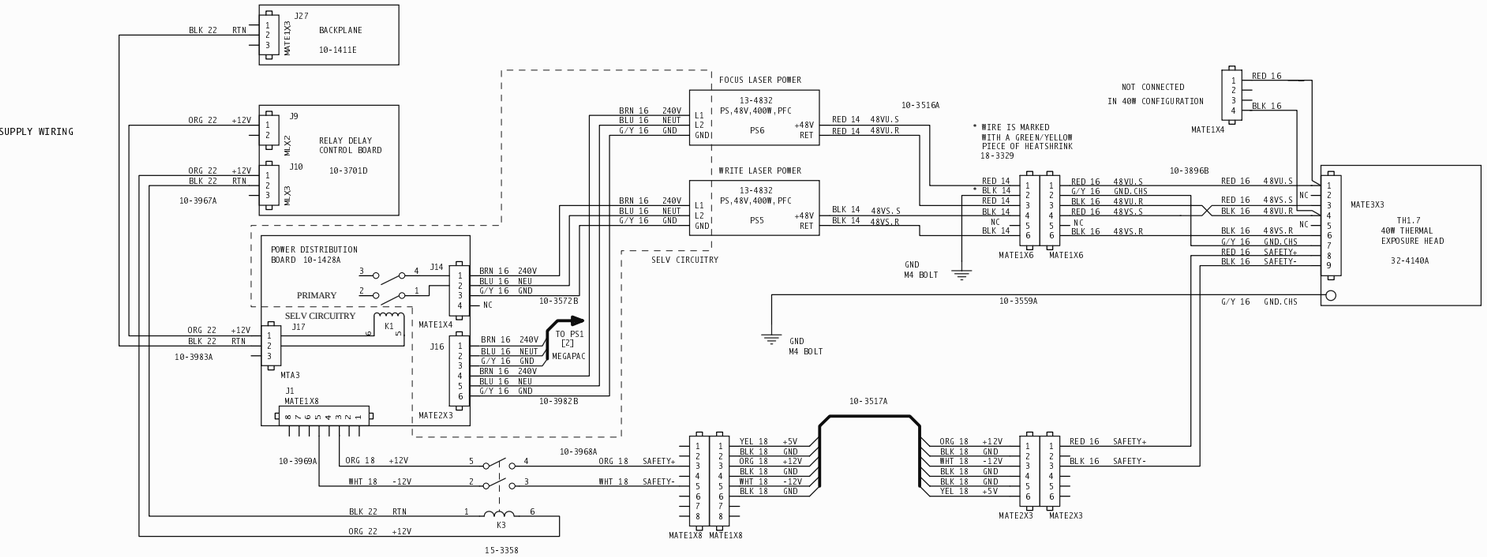
THERMOFLEX MAINFRAME
POWER & SAFETY LOOP WIRING
DIAGRAM (60M HEAD)

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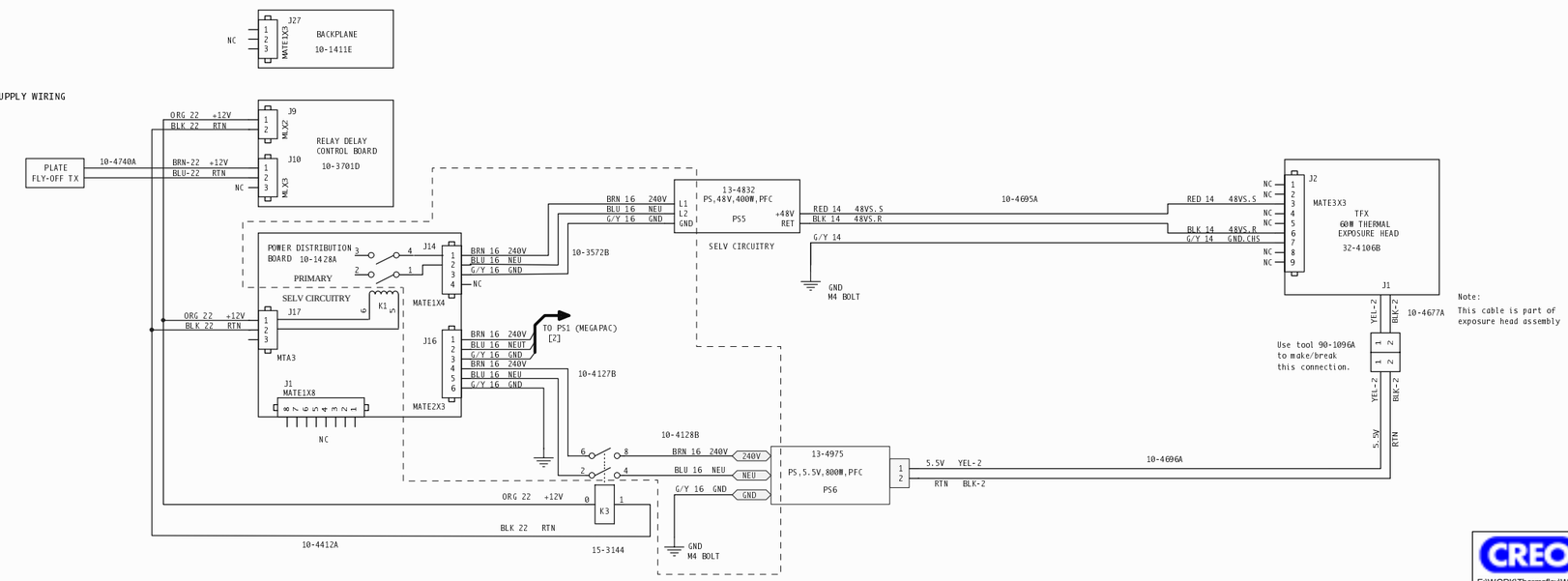
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AC INPUT
FROM EMI FILTER OUTPUT
GREEN WIRE: SEE NOTE 1
10-3513C
10-1440C
10-4127B
TO K3 [3]
J12 MATE1X4
J2 MATE1X3
J9 MATE1X6
[1] TO RELAY DELAY CONTROL RELAY K2 CONTACT TERMINAL 2. FROM RELAY DELAY CONTROL RELAY K2 CONTACT TERMINAL 4.
[1] TO FAN BOX
10-3563B
10-3501A
J-FAN1_PDB
10-4150A
FAN1
CARD CAGE FAN 15-3165
J-FAN2_PDB
FAN2
POWER BOX FAN 15-3165
J-FAN3_PDB
11-0453A
FAN3
CRG MTR FAN 15-3181
M4 BOLT CHASSIS
M5 BOLT ENGINE
10-4054C
[4]TO K5, PIN 6
[4]TO K5, PIN 2
10-3497C
[1] TO RELAY DELAY CONTROL RELAY K2 CONTACT TERMINAL 6.
[1] FROM RELAY DELAY CONTROL RELAY K2 CONTACT TERMINAL 8.
10-3488A
MEGAPAC
13-3599
SWITCHING SUPPLY
PS1 (/PS2/PS4)
SELV OUTPUT
[2] TO MAIN DRIVE AMPLIFIER
+5VDC @ 10A
+12VDC @ 4.2A
-12VDC @ 4.2A
+24VDC @ 3.1A
10-3541B
10-3488A
SELV
NON-SELV
NON-SELV OUTPUT
80 VDC
+80VDC @ 5A
10-3972A
J11 MATE1X5
J13 MATE1X3
10-3562B
VR1 VARISTOR
VR2 VARISTOR
VR3 VARISTOR
SG1
SG2
VARISTOR BODY AND LEADS ARE COVERED WITH HEATSHRINK
PRIMARY
200-240 VAC
K1
J14 MATE1X4
10-3572B
J10 MATE1X2
J8 MATE1X2
J3 MATE1X8
J4 MATE3X5
SELV CIRCUITRY
POWER DISTRIBUTION BOARD (PDB) 10-1428A
J15 MATE3X4
J6 MATE1X8
J17 1X3
J1 MATE1X8
NC
10-3840C
10-4296B
DESSICANT BOX 50-1864B
[3] TO RDC (J9) AND K3
10-3500A
10-3572B
13-4832
PS, 48V, 400W, PFC
PS5
+48V
RTN
RED 14
BLK 14
[3] TO 60W HEAD
10-4695A
10-3790A
10-3528A
J2 MATE3X2
MATE2X3
MATE2X3 BACKSHELL
M2 CARRIAGE MOTOR
ASSEMBLY: 11-0793A
MOTOR: 15-3354
TO MOTOR HOUSING
10-3895A
CHASSIS GND
TO CARRIAGE MOTOR FAN BRACKET
13-4145
SWITCHING SUPPLY CARRIAGE MOTOR
+5VDC @ 3.0A
+12VDC @ 1.8A
-12VDC @ 0.3A
PS3
J1
J2
NON-SELV OUTPUT
J3 MATE1X6
J4 MATE1X2
CARRIAGE MOTOR DRIVER BOARD
10-1312C
NON-SELV
10-1440C
10-3488A
Power
HEAD STEPPER DRIVER
10-3833
MTA1X3
Head Stepper Motor Assy
11-0577B
15-3290
J15
TRENDSETTER ENGINE ELECTRONICS
10-3627B
MATE1X6
TRENDSETTER BACKPLANE
10-1411E
MATE1X4
J19
J17
MATE1X3
10-3782A
ABORT+
DOOR+
+12V
[1] TO RELAY DELAY CONTROL BOARD (J7)
CONNECTOR PRIMARY
ASSEMBLY: 11-0853A
MOTOR: 15-3163B
DRUM MOTOR M1
10-4592A
SELV CONNECTOR
10-4589A
R1
BRAKE SHUNT RESISTOR
50 OHM, 225W
BK-18
10-4588A
MTR CRD MTR-CRD-2P250V
THRD-2P250V
10-1429B
13-3591B
MAIN DRIVE AMPLIFIER
SHIELD
10-3541B
FROM PS1 [2]
J30
J31
NOTE 1: WIRE IS GREEN, MARKED WITH A GREEN/YELLOW PIECE OF HEATSHRINK ON EACH END 18-3329
CREO
THERMOFLEX MAINFRAME
POWER WIRING DIAGRAM
(60W HEAD)
E:\WORK\Thermoflex\Wiring Diagram\Rev D\73-3314A-D-WD02.SCH
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TH1.7 (40W) HEAD POWER SUPPLY WIRING



TFX (60W) HEAD POWER SUPPLY WIRING



CREO

THERMOFLEX MAINFRAME
EXPOSURE HEAD POWER WIRING
(60W HEAD)

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16-4051
DB9 SERIAL CAB
COMM
TO WORKSTATION
(FOR INTEGRATION USE ONLY)
J4
Serial Port
J10
J3
SAOM
HOT LINK
60W THERMAL
EXPOSURE HEAD
32-4106B
J9
LASER CTRL
CONTROL
[4] J1(FPDE)
10-4694A
10-3523B
10-3520A
CARRIAGE HOME/AWAY
10-3791A
10-3519A
HEAD STEPPER DRIVER
10-3833
Control
BLU DIR.
RED +5V
WHT STEP
PURP ENA.
10-3841A
10-3782A
TO RDC-J17 [1]
RED 24 1
BLK 24 6
WHT 24 2
RED 22 7
BLK 22 3
WHT 22 8
GRN 22 4
GRN 22 9
BLU 22 5
DB9
DB9
10-3839A
HEAD STAGE
HOME/ AWAY
10-0345A
IDC,10PIN
REC,16PIN
PLUG,16PIN
10-3912B
15-3230
Vacuum Button
15-3230
Float Button
15-3230
Inspect Button
15-3230
Vacuum Button
15-3230
Vacuum Button
15-3230
Float Button
15-3230
Inspect Button
15-3230
Float Button
LOAD TABLE BUTTONS
BASE
BUTTONS
10-3940A
10-3827A
CD+/CD-
J18 IDC,12PIN
J5 HDR,30PIN
J11 HDR,30PIN
J22
DB37
DB9,IDC
J28
EXPOSURE HEAD
IDC,20PIN
J22
J10
HOME AND AWAY
J19
DOOR SENSOR
J1
DC POWER I/P
YEL 16 +5V
YEL 16 +5V
BLK 16 RTN
ORG 18 +12V
BLK 18 RTN
WHT 18 -12V
GRY 22 -5.2V
RED 22 +5V SENS+
BRN 22 +5V SENS-
ORG 22 AC OK
NC
NC
MINI-MATE2X6
FROM POWER BOX
POWER DISTRIBUTION BOARD
J15
10-3500A
[2]
J11
SPI BUS
DB25,IDC
10-3837A
J1
SPI I/F
DB25,IDC
Footpedal
15-3442
10-4722A
10-4721A
J7
34
HDR,34PIN
J19
HDR,30PIN
1K, 2W (TYP.)
BULKHEAD
J3
DB15S
J8
IDC,16PIN
N/C
10-4146A
CHILLER/
DEBRIS
VACUUM
GND
CHASSIS
J5
DB9,IDC
K5RELAY
TRENDSETTER BACKPLANE BOARD
R22 10-1411E
10-3820A
[2] PDB-J3
+5VDC YEL 16
GND BLK 16
+24VDC RED 16
GND BLK 16
J15
DC PWR I/P
MATE1X6
TRENDSETTER ENGINE ELECTRONICS
10-3627B
MAIN FRAME
Bulkhead 57-8540A
Diagnostic
Workstation
WS SCSI
10-1431A
10-1430A
16-3767A
J18
DB9,IDC
SCSI BUS
68
P1
P2
P3
36-3141
PLATE LENGTH SENSOR
10-3911A
J3
LOAD RAMP SENS
MTA,6PIN
10-3822A
J20
DB25
J2
DB15P
DRUM
VACUUM
FLASH COVER LOCK
55-0534
24VDC_SOL
DRUM BAL LEFT
55-0088
24VDC_SOL
FLASH COVER UNLOCK
55-0534
24VDC_SOL
DRUM BAL RIGHT
55-0088
24VDC_SOL
TABLE VACUUM
55-0736
24VDC_SOL
HEAD DEB BLOW
55-0088
24VDC_SOL
TABLE DRAG
55-0736
24VDC_SOL
J21
DB37
N/C
10-3825E
TACH ENCODER
J400
DSUB,15PIN
MAIN DRIVE AMP
J6
IDC,14PIN
CARRIAGE DRIVE
ANALOG
J24
DB9,IDC
CARRIAGE DRIVE
DIGITAL
J25
DB25,IDC
Tach Encoder
32-4130A
10-4671A
10-3496A
10-3494A
10-3495A
10-0967A
YEL 22
BLK 22
RT
RT,THERMISTOR
On Engine Casting
10-0967A
BLK 18
RT
RT,THERMISTOR
On Lead Screw
MATE1X3
10-3828A
BLK 22
YEL 22
BLK 22
YEL 22
BLK 22
J13
TEMP SENSORS
HDR,10PIN
J6
HDR,30PIN
MAIN DRIVE
AMPLIFIER
13-3591B
J2
CMD/STATUS
IDC,14PIN
ANALOG I/O
J1
DB9,IDC
DIGITAL I/O
J5
DB25,IDC
Carriage Motor
Drive board
10-1312C
TO 10-3829A [1]
OPERATOR INTERFACE
IDC,16PIN
PLATE FLY-OFF
HDR,8PIN
J10
HDR,10PIN
J25
MTA, HEADER 15 PIN
J4
J2
10-3821A
15-3063
REED SWITCH
FLASH COVER OPEN
15-3063
REED SWITCH
FLASH COVER CLOSED
10-4668A
10-4669A
10-4670A
10-4670A
Drum Balance
Sensor
10-4733A
Drum Balance
Sensor
10-4733A
Drum Balance
Sensor
10-4733A
Drum Balance
Sensor
10-4733A
Drum Balance
Sensor
10-4733A
TBL FAN+
RED 22
TBL FAN-
BLK 22
10-4054C
K5
FROM PDB,
J5,PIN6
FROM PDB,
J5,PIN5
NEUT WHT 18
240V BLK 18
10-4054C
15-3249
[1]TO K4, PIN 2
[1]TO K4, PIN 6
10-4396B
THIS RELAY SWITCHES
FLOAT FANS POWER
(2 OF 2: CONTROL RELAY)
Thermal FDPE
10-3672C
MPE
10-3692A
ALE
10-3691A
10-4107A
BULKHEAD CONNECTOR
Card Cage 10-3491A
EH
[4]
10-4694A
(OLD: 10-3518B)
START BUTTON
SW13
LED NOT INSTALLED
CONTACT BLOCK 15-3230
PUSHBUTTON 15-3231
10-3187B
J3
OPERATOR INTERFACE
BOARD
10-1445A
MATE1X6
J4
IDC,16PIN
BLK-22 PD,BUT+
BLK-22 PD,BUT-
BLK-24 BUT+
WHT-24 BUT-
RED-24 LED+24
BRN-24 LED.EN
36-3117
PLATE
FLY-OFF RX
BRN-22
BLK-22
BLU-22
10-4693B
CREO
THERMOFLEX MAINFRAME
SIGNAL WIRING DIAGRAM
(60W HEAD)
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