MTA WIRING DIAGRAM
SERIES 3+ AUTOLOADER OPTIONS (CL, MCU, DM PICKER & PUNCH)

MTA AUTOLOADER CONFIGURATIONS
PAGE 2_MTA AUTOLOADER CONFIGURATIONS

SERIES3 AUTOLOADER CONFIGURATIONS

SYSTEM BLOCK DIAGRAM
PAGE 3_SYSTEM BLOCK DIAGRAM

SYSTEM BLOCK DIAGRAM, PAGE 1

SYSTEM BLOK DIAGRAM CONTINUED
PAGE 4_SYSTEM BLOCK DIAGRAM CONTINUED

SYSTEM BLOCK DIAGRAM, PAGE 2

SAFETY CIRCUIT
PAGE 5_SAFETY CIRCUIT

SAFETY DOOR LOOP
EMERGENCY STOP SWITCH
WRITE LASER SAFETY INTERLOCK
MECHANICAL SAFETY INTERLOCK
DRUM AMP SAFETY INTERLOCK
DRUM BRAKE SAFETY INTERLOCK
SERVICE INTERLOCK OVERRIDE SWITCH
SERVICE INTERLOCK OVERRIDE INDICATORS

SAFETY CIRCUIT CONTINUED
PAGE 6_SAFETY CIRCUIT CONTINUED

SAFETY DOOR LOOP
EMERGENCY STOP SWITCH
WRITE LASER SAFETY INTERLOCK
MECHANICAL SAFETY INTERLOCK
DRUM AMP SAFETY INTERLOCK
DRUM BRAKE SAFETY INTERLOCK
SERVICE INTERLOCK OVERRIDE SWITCH
SERVICE INTERLOCK OVERRIDE INDICATORS

POWER ENTRY WIRING
PAGE 7_POWER ENTRY WIRING

MAIN POWER SWITCH
SERVICE INTERLOCK OVERRIDE SWITCH
SERVICE INTERLOCK OVERRIDE INDICATORS
CIRCUIT BRAKERS

POWER DISTRIBUTION BOARD PDB0 WIRING
PAGE 8_POWER DISTRIBUTION BOARD WIRING

CANBUS
POWER BOX AC POWER SW2
SAFETY DOOR LOOP
EMERGENCY STOP SWITCH
MECHANICAL SAFETY INTERLOCK
DRUM RESISTIVE BRAKE CONTROL
SERVICE INTERLOCK OVERRIDE SWITCH
SERVICE INTERLOCK OVERRIDE INDICATORS
POWER SUPPLIES PS1, PS2, PS3
AC FANS
TEC MAGNETS CONTROL

MASTER CONTROL ELECTRONIC WIRING
PAGE 9_GMCE0 Text

CANBUS
CARRIAGE MOTROR DRIVE
PNEUMATIC SOLENOID DRIVE OUTPUTS
DRUM AMP CONTROL
ANLOG SENSORS
PLATE FLYOFF SENSOR
WORKSTATION CONNECTIONS
ENCODER
DEBRIS REMOVAL SENSOR
PLATE REGISTRATION ELECTRONICS

GMCE0 DIGITAL SENSORS WIRING
PAGE 10_GMCE0 DIGITAL SENSORS WIRING

CANBUS
CARRIAGE HOME AND AWAY SENSORS
ROLLER & LEC UP/DOWN SENSORS
HOME & AWAY BALANCE SENSORS
BACKBONE MECHANISM SENSORS
P-DOOR SENSORS
TEC DETECT SENSORS
TEC COILS
LOAD RAMP PLATE SENSOR 2
DRUM RESISTIVE BRAKE RELAYS SENSE
EDGE DETECT CAMERA

DRUM AMPLIFIER & MOTOR WIRING
PAGE 11_DRUM AMPLIFIER & MOTOR WIRING

DRUM DRIVER
DRUM MOTOR
DRUM RESISTIVE BRAKE

LIONEL0 BOARD WIRING
PAGE 12_LIONEL0 BOARD WIRING

CANBUS
INTERNAL DEBRIS REMOVAL SENSORS
REGISTRATION LIGHTS
STATUS LIGHTS
CUSTOMER RELAY INTERFACE
DRUM VACUUM PUMP CONTROL

DRUM RESISTIVE BRAKE ASSY
PAGE 13_DRUM RESISTIVE BRAKE ASSY

DRUM RESISTIVE BRAKE WIRING

HEAD COOLER & DEBRIS REMOVAL
PAGE 14_ HEAD COOLER & DEBRIS REMOVAL

INTERNAL DEBRIS REMOVAL WIRING
INTERNAL TH2 CHILLER WIRING
INTERNAL TH2.7 HEAT EXCHANGER WIRING
EXTERNAL TH3 CHILLER WIRING

GENINE 0 _FETCHER
PAGE 15_GENINE 0_FETCHER

FETCHER CONTROL
PLATE PROCESSOR INTERFACE CONTROL
Z-STAGE

GENINE 0 _CL OPTION
PAGE 16_GENINE 0_CL OPTION

CAN BUS TERMINATOR
PLATE PROCESSOR INTERFACE CONTROL
Z-STAGE

LOAD TABLE, SIDE EJECTOR & SIDE PROCESSOR
PAGE 17_GENINE 1_LOAD TABLE & SIDE EJECTOR

LOAD TABLE
SIDE EJECTOR

UNLOAD TABLE
PAGE 18_GENINE 2_ UNLOAD TABLE

UNLOAD TABLE

MCU PDB1 WIRING
PAGE 19_MCU PDB1 WIRING

CANBUS
POWER SUPPLIES
MCU SAFETY LOOP

MCU GENINE 3 WIRING
PAGE 20_MCU GENINE 3 WIRING

MCU & SSR SENSORS
MCU MANIFOLDS

MCU SAFETY INTERFACE BOARD
PAGE 21_MCU SAFETY INTERFACE BOARD

MCU SAFETY BOARD
MCU MOTOR DRIVE

SSR WIRING
PAGE 22_ SSR WIRING

SSR MODULE

MCU LIONEL 1 WIRING
PAGE 23_MCU LIONEL 1 WIRING

MCU USER INTERFACE
SSR USER INTERFACE
EMERGENCY STOP SWITCHES

PROCESSOR INTERFACE BOARD
PAGE 24_PROCESSOR INTERFACE BOARD

PROCESSOR INTERFACE BOARD

LIONEL 2 DELICATE MEDIA PICKER
PAGE 25_LIONEL 2 DELICATE MEDIA PICKER

DELICATE MEDIA PICKER OTION, PAGE1

LIONEL 3 DELICATE MEDIA PICKER
PAGE 26_LIONEL 3 DELICATE MEDIA PICKER

DELICATE MEDIA PICKER OPTIN, PAGE2

MANTA DRUM VACUUM PUMP
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EXTERNAL DRUM VACUUM PUMP

GENINE 4_PUNCH CONTROL
PAGE 28_GENINE 4_PUNCH CONTROL

GENINE4 IO

DAPHNE 0_PUNCH
PAGE29_DAPHNE 0_PUNCH

PUNCH MOTOR CONTROL
PLATE REGISTRATION
PRESSURE REGULATORS
EXTRUSION TEMPERATURE SENSORS

MTA AUTOLOADER
SERIES 3+
SYSTEM WIRING DIAGRAM

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SEE PAGE 4

CAN BUS

SEE PAGE 4

Chiller Sensors
Debris Removal Sensor
TEC/LEC Sensors

Carriage Home/Away Sensors
Engine Actuation Sensors
Plate Length Sensors
Temperature Sensors
Plate Flyoff Sensor

LIONEL 0 BOARD

STATUS LIGHT LEDs BRD.

CONTROL of MTA-DVP

WORKSTATION
CONSOLE

ETHERNET CAT5e

RESPONSE CENTER
REMOTE DIAL-UP
SERVICE

CAN BUS
+24V
+48V
CAN H/L

GIGABIT
MASTER CONTROL
ELECTRONICS
(GMCE0 BOARD)

ENGINE I/O

ENGINE SOLENOID
MANIFOLD

EH - Control

DATA (HOT LINK)

CARRIAGE DRIVER
INTERFACE

PLL & LINE
TIMING (SCLK)

DRUM AMP
INTERFACE

FOR TH3 OPTION:
TH3
EXPOSURE
HEAD

FIBEROPTICS DUPLEX CABLE

RS422

High Speed Serial

48VDC Power

RS422 +5V Analog plus

RS422 (Incremental Quadrature)

+-10V Analog or TTL PWM

CARRIAGE
DRIVE

Carriage Motor

TH2
EXPOSURE
HEAD

Tach Encoder

DRUM

Drum Motor

DRUM
DRIVE

DRUM
RESISTIVE
BRAKE

TH3 OPTION ONLY

EXTERNAL CHILLER (TH3)

200 - 240 VAC

INTERNAL CHILLER (TH2.7)

200 - 240 VAC

200 - 240 VAC

DOOR LOOP
E-STOP SWITCH
SERVICE INTERLOCK
OVERIDE SWITCHES

CAN BUS

SAFETY LOOP

POWER DISTRIBUTION BOARD
(PDB 0)

PS1 POWER
Unswitched
Pneumatics

PS2 POWER
Switched
Stepper Motors

PS3 POWER
Switched
Write Laser

PS4 POWER
Unswitched
Thermal Head Logic

SYSTEM COOLING
FANS

+24V

200 - 240 VAC

200 - 240 VAC

200 - 240 VAC

200 - 240 VAC

200 - 240 VAC

200 - 240 VAC

PS1 POWER
24VDC
Pneumatics

PS2 POWER
48VDC
Stepper Motors

PS3 POWER
48VDC
Thermal Exposure Head
Write Laser

PS4 POWER
48VDC
Thermal Exposure Head Logic

FOR TH3 OPTION ONLY

TH3 POWER MODULE
360VDC

Thermal Exposure Head TH3
Power Supply
Replaces PS3 and PS4
Connected to PDB-PS3

MAIN DISCONNECT
SWITCH ES1

CB1
CB2
CB3

F1
F2

POWER BOX
AC SWITCH, SW2

200-240 VAC, 50/60HZ, 24A , LINE 1

200-240 VAC, 50/60HZ, 24A ,LINE 2

POWER ENTRY BOX
(PEB)

To MCU - PDB1
(See PAGE 4)

200 - 240 VAC

200-240 VAC, 50/60HZ, 24A , LINE 3

DRUM VACUUM PUMP (MTA-DVP)
EXTERNAL

200 - 240 VAC

INTERNAL
DEBRIS REMOVAL

+24V

+24V

DRUM MOTOR DC FAN 5

DRUM MOTOR DC FAN 6

POWER BOX FAN 1

CARRIAGE MOTOR FAN 2

EXHAUST FAN 3

DEBRIS REMOVAL DR-FAN 1

CHILLER COOLING FAN 4

HOME REAR DOOR FAN 7

AWAY REAR DOOR FAN 8

Kodak MTA AUTOLOADER
SYSTEM BLOCK DIAGRAM
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SEE PAGE 3

CAN BUS

CAN BUS & TERMINATOR

FOR CL OPTION ONLY

GENINE 0 BOARD

FETCHER PNEUMATICS & SENSORS

Z-STAGE H/A SENSORS

FETCHER MOTOR DRIVE

Z-STAGE MOTOR

FETCHER MOTOR

GENINE 3 BOARD

MCU PNEUMATICS & SENSORS

SSR PNEUMATICS & SENSORS

CAN BUS & TERMINATOR

FOR MCU with WEDGEMASTER

LIONEL 1 BOARD

MCU USER INTERFACE BOARD

SSR USER INTERFACE BOARD

SSR & MCU SENSORS

MCU JOG BUTTON PANEL

MCU SAFETY INTERFACE BOARD

MCU MOTOR DRIVE

MCU AC MOTOR

CAN BUS

SEE PAGE 3

CAN BUS & TERMINATOR

GENINE 2 BOARD

UNLOAD TABLE PNEUMATICS & SENSORS

UNLOAD TABLE MOTOR

GENINE 4 BOARD

PUNCH PNEUMATICS & SENSORS

SIDE PIN REGISTRATION MOTOR

DAPHNE 0 BOARD

REG PIN, PRESSURE REGULATORS & SENSORS

PUNCH MOTOR #1

PUNCH MOTOR #16

PUNCH OPTION

GENINE 1 BOARD

LOAD TABLE & S. EJECTOR PNEUMATICS & SENSORS

SIDE EJECTOR MOTOR DRIVE

S. EJECTOR MOTOR

LOAD TABLE MOTOR

BOARDS LIONEL 2 & 3 ARE USED FOR DM PICKER OPTION ONLY

LIONEL 2 BOARD

DM PICKER PNEUMATICS & SENSORS

CAN BUS & TERMINATOR

FOR DM PICKER OPTION

LIONEL 3 BOARD

DM PICKER PNEUMATICS & SENSORS

DM ROLLER MOTOR

DOOR LOOP

E-STOP SWITCHES

MCU & SSR SERVICE INTERLOCK OVERIDE SWITCH

CAN BUS

SAFETY LOOP

MCU

POWER DISTRIBUTION BOARD

(PDB 1)

From PEB (See PAGE 3)

200 - 240 VAC

PS1 POWER Unswitched Pneumatics

200 - 240 VAC

PS1 POWER 24VDC Pneumatics

PS2 POWER Switched SSR Motor

200 - 240 VAC

PS2 POWER 24VDC SSR MOTOR

SSR MOTOR

AC SAFE SPARE Switched MCU MOTOR

200 - 240 VAC

PUMP Switched Plenum Blower

200 - 240 VAC

PLENUM MOTOR

NOTES:

THE FOLLOWING BOARDS ARE NOT USED FOR CL OPTION:

PDB 1, GENINE 3, LIONEL 1, LIONEL 2 and LIONEL 3.

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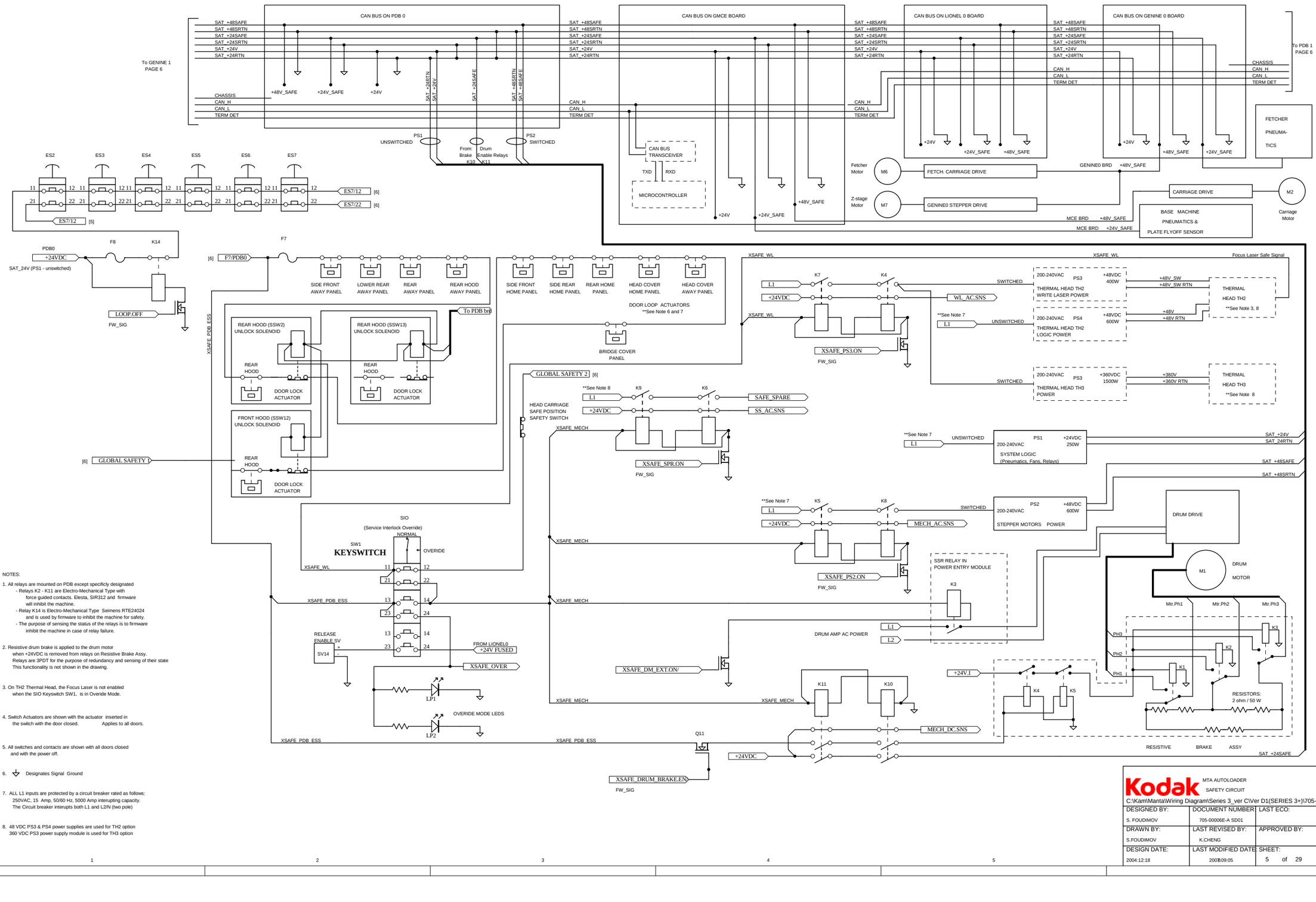
MTA AUTOLOADER

SYSTEM BLOCK DIAGRAM

CONTROLS

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NOTES:

1. All relays are mounted on PDB except specificly designated
   - Relays K2 - K11 are Electro-Mechanical Type with force guided contacts. Elesta, SIR312 and firmware will inhibit the machine.
   - Relay K14 is Electro-Mechanical Type Seimens RTE24024 and is used by firmware to inhibit the machine for safety.
   - The purpose of sensing the status of the relays is to firmware inhibit the machine in case of relay failure.
2. Resistive drum brake is applied to the drum motor when +24VDC is removed from relays on Resistive Brake Assy. Relays are 3PDT for the purpose of redundancy and sensing of their state This functionality is not shown in the drawing.
3. On TH2 Thermal Head, the Focus Laser is not enabled when the SIO Keyswitch SW1, is in Overide Mode.
4. Switch Actuators are shown with the actuator inserted in the switch with the door closed. Applies to all doors.
5. All switches and contacts are shown with all doors closed and with the power off.
6. ⏚ Designates Signal Ground
7. ALL L1 inputs are protected by a circuit breaker rated as follows: 250VAC, 15 Amp, 50/60 Hz, 5000 Amp interupting capacity. The Circuit breaker interupts both L1 and L2/N (two pole)
8. 48 VDC PS3 & PS4 power supplies are used for TH2 option 360 VDC PS3 power supply module is used for TH3 option

Kodak MTA AUTOLOADER SAFETY CIRCUIT

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FROM GENINE 0 PAGE 5

CAN BUS ON PDB 1

CHASSIS
CAN_H
CAN_L
TERM DET

+24V_SAFE
+24V

SAT_+24SAFE
SAT_+24SRTN
SAT_+24V
SAT_+24RTN

MCU-PS1
250W
UNSW.
L1
200-240VAC
SYSTEM LOGIC
(Pneumatics, Relays)
+24VDC
24VRTN

CAN BUS ON GENINE 3 BOARD
MCU, SSR & PICKER PNEUMATICS

CAN BUS ON LIONEL 1 BOARD
MCU, SSR-USER IF PNEUMATICS

CAN BUS ON LIONEL 2 BOARD
DM PICKER PNEUMATICS

CAN BUS ON LIONEL 3 BOARD

TERMINATOR LIONEL 3 - J13
120 OHMS
2.7 K OHMS

CAN BUS ON DAPHNE 0 BOARD
DAPHNE 0, DC MOTOR DRIVES 1 to 16, LED REG. PUNCH PRES. REGUL.
P.M1
P.M2
P.M16

CAN BUS ON GENINE 2 BOARD
TERMINATOR GENINE 2 - J26
UNLOAD TABLE PNEUMATICS
GENINE 2 STEPPER DRIVE
M5
Unload Table Motor

From PDB 0 PAGE 5

CAN BUS ON GENINE 1 BOARD
SAT_+48SAFE
SAT_+48SRTN
SAT_+24SAFE
SAT_+24SRTN
SAT_+24V
SAT_+24RTN
CAN_H
CAN_L
TERM DET
+48V_SAFE
+24V_SAFE

CAN BUS ON GENINE 4 BOARD
PUNCH PNEUMATICS
GENINE 4 STEPPER DRIVE
PUNCH SIDE PIN REG. MOTOR.
M6

LOAD TABLE & SIDE EJECTOR PNEUMATICS
GENINE 1 STEPPER DRIVE
M3
Load Table Motor
SIDE EJECTOR DRIVE
M4
Side Ejector Motor

ES1-MCU
ES2-MCU
ES1-SSR
ES7/22 [5]
F7/PDB0 [5]
ES7/12 [4]

[5] GLOBAL SAFETY 1
GLOBAL SAFETY 2 [5]
GLOBAL SAFETY LOOP
SS BIN REAR DOOR
SS BIN COVER
CART HOME SAFETY SWITCH
MCU CASSETTE DOOR
MCU REAR RIGHT DOOR
MCU REAR LEFT DOOR
MCU SIDE ACCESS DOOR
MCU SIDE ACCESS DOOR
MCU LEFT ROOF SAFETY SWITCHES
MCU RIGHT ROOF SAFETY SWITCHES

MCU-PDB1
+24VDC
SAT_24V (PS1 - unswitched)
F8
K14
LOOP.OFF
FW_SIG
[5] ES2/21
F7
XSAFE_PDB_ESS

**See Note 8
L1
F6
K9
K6
+24VDC
SAFE_SPARE
SS_AC_SNS
XSAFE_SPR.ON
FW_SIG
MCU AC MOTOR DRIVE

XSAFE_MECH

Mcu & SSR Service Interlock Override
MCU-SW5
SIO
NORMAL
OVERIDE
XSAFE_WL
XSAFE_PDB_ESS
XSAFE_MECH
SSR +24V
SSR Roller Motor
SSR M1
SSR MOTOR OVERRIDE PBTN.
SSR-SW2

**See Note 7
L1
K5
K8
+24VDC
MECH_AC.SNS
SWITCHED
XSAFE_PS2.ON
FW_SIG

MCU POWER BOX RELAYS
K3
K4
MCU-PS2
200-240VAC
+24VDC 200W
SSR DC MOTOR POWER
SSR +24V

RUN_FORWARD_REVERSE_FREQ1_FREQ2
MCU-K1
MCU-K2
1 L1
2 T1
3 L2
4 T2
5 L3
6 T3
21 NC
22
A1 +
A2 -
MCU M1
MCU Casset Motor
CONTACTORS SENSE
CONTACTORS ON

**See Note 8
L1
F3
K1
SAFE_SPARE
MCU M2
MCU Plenum Motor

MCU JOG BUTTON PANEL
MCU-SW1
2 POSITION LEVER SWITCH
SEMI-AUTO MODE
POS 2
MANUAL JOG MODE
POS 1
MANUAL_JOG_SEMI-AUTO
MCU-SW2
PUSHBUTTON
HOLD FOR SEMI-AUTO
13A
14A
MCU-SW3
JOG UP
PUSHBUTTON
MCU-SW4
JOG DOWN
PUSHBUTTON
JOGGED_RUN_SEMI/AUTO RUN_JOG DOWN_MOTOR RUN

SSR MODULE
SSR LOCAL SAFETY LOOP
SS BIN FRONT DOOR SWITCH
+24VSAFE
SSR PNEUMATICS
SSR ROLLER EXTEND
OVERRIDE PBTN.
SSR-SW1

MCU SAFETY BOARD

XSAFE_OVER
LP1
MCU OVERIDE MODE LEDS
LP2

Kodak MTA AUTOLOADER SAFETY CIRCUIT CONTINUED		
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POWER ENTRY BOX (PEB) 11-1064A

GND G/Y 12 10-9089A — M5 BOLT ENGINE
GND G/Y 12 10-9089A — M5 BOLT CHASSIS
M5 BOLT CHASSIS
M5 STUD PEB

200-240 VAC, 50/60HZ, 24A , LINE 1
AC Input 1 Plug
L1 BRN 12
L2/N BLU 12
GND G/Y 12
10-9088A (or 220-00437A)
GND G/Y 12 — M5 STUD PEB
10-9092A
GND G/Y 12 — M5 STUD PEB

LF1 FILT30A
P E N P' N'
162-00011

BLU 12
BRN12
10-9090A
10-5217A

ES1
EMRGENCY STOP & MAIN SWITCH 25A
1 2 3 4 5 6 7 8
15-3525

10-9090A
10-5218A

200-240 VAC, 50/60HZ, 24A , LINE 2
AC Input 2 Plug
L1 BRN 12
L2/N BLU 12
GND G/Y 12
10-9088A (or 220-00437A)
GND G/Y 12 — M5 STUD
10-9092A
GND G/Y 12 — M5 STUD PEB

LF2 FILT30A
P E N P' N'
BRN12
BLU12
162-00011

SIO
KEYSWITCH (2 POS)
15-3334
SW1
NORMAL
(Shown in normal position)
OVERIDE

15-3067 DUAL NC Contact Block
15-3238 DUAL NO Contact Block
15-3238 DUAL NO Contact Block (For MCU option only)

OVERRIDE MODE LEDS
LP1 LP2
10-3721A 10-3721A

XSAFE WL
XSAFE ESS
XSAFE OVER
MCU SAFE
XSAFE OVER
XSAFE MECH

YEL 22
BLK 22
RED 22
WHT 22
GRN 22
BLU 22
ORG 22
BRN 22 DOOR LOOP

MINIFIT 2X6
J2
10-9083A
10-9091B

RED 22
BLK 22
To RELEASE SV ADAPTOR
RELEASE ADPT 1 [9]
SELV
To PDB J34, J35, J41
OVERRIDE SW & LED [8]

CB1
CIRBKR 15A
BRN 12 12 11 BRN 14
BLU 12 22 12 BLU 14
15-3085
TB1
10-5221A
10-5222A
BRN 14 1 2 BLK 14
WHT 14

K1
15-3249
RELAY,25A,SOLID STATE
BLK-22
RED-22
To K2
[7] K2 CONTROL
RED 22
BLK 22
10-9073A
J1
1 2 3 4
WHT 22
GRN 22
RED 22
BLK 22
10-9068B
To PDB0 J37
HEAD COOLER & BLOWER ON/OFF [8]
MATE 1X4
SELV

10-9084A
L1
L2/N
GND
G/Y 14
M5 STUD PEB
AC POWER to CHILLER
HEAD COOLER AC POWER [14]

220-00042A
J3
1 2
RED 22
BLK 22
220-00044A
To PDB0 J44
DRUM DRIVE AC ON/OFF [8]
MATE 1X2
SELV

BLK 22
RED 22
K3
15-3249
RELAY,25A,SOLID STATE
220-00049A
BRN14
BRN 14
BLU 14
10-9075B
L1
L2/N
GND
G/Y 14
M5 STUD PEB
To SW2-1,3 in POWER BOX
DDRIVE AC POWER - SW2 [8]

220-00833A
CB2
CIRBKR 15A
BRN 12 12 11 BRN 14
BLU 12 22 21 BLU 14
15-3085
10-9073A
K2 CONTROL [7]
BLK 22
RED 22
K2
15-3249
RELAY,25A,SOLID STATE
SELV
182-00016
F1, F2: 12A, 600V, BUSSMANN, Type LP-CC
(F1 & F2 replaced the former CB3)
F1
F2
BRN 12
BLU 12
BRN 14
WHT 14
220-00834A
1 2 BLK 14
F1, F2 FUSEHOLDER, 182-00015
10-5220A

10-9077B
L1
L2/N
GND
G/Y 14
M5 STUD PEB
To SW2-5,7 in POWER BOX
PDB AC POWER - SW2 [8]

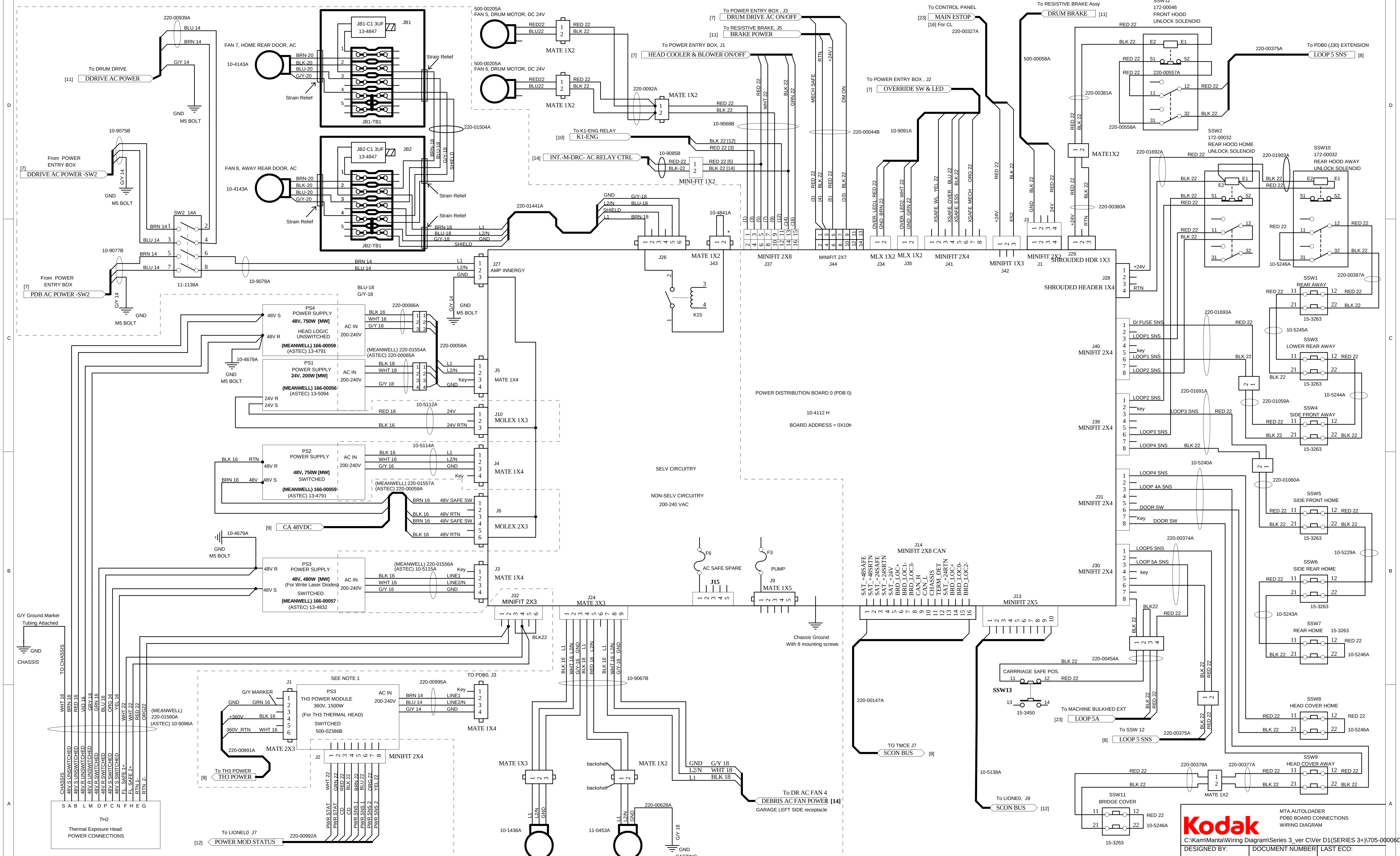
10-9086B
L1
L2/N
GND
G/Y 14
M5 STUD PEB
AC POWER to DEBRIS REMOVAL MOTOR
DEBRIS BLOWER AC POWER [14]

CB3 (former CB4)
CIRBKR 15A
BRN 12 12 11 BRN 14
BLU 12 22 21 BLU 14
15-3085
220-00352A
L1
L2/N
GND
G/Y 14
M5 STUD PEB
AC POWER to MCU (see NOTE1)
MCU AC POWER [19]

NOTES:
1. CB3, 10-5220A, 220-00352A ARE NOT USED IN CL OPTION.

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MTA AUTOLOADER
POWER ENTRY BOX
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2002:12:18	2007:09:05	7 of 29



NOTES:

1. THE CONNECTIONS ARE SHOWN for TH2 HEAD.
   FOR TH3 OPTION: REMOVE PS4, PS3 (13-4832), 220-00058A and INSTALL: PS3 (500-02386B), 220-00991A, 220-00992A, 220-00995A.

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MTA AUTOLOADER
PDB0 BOARD CONNECTIONS
WIRING DIAGRAM

C:\Kam\Manta\Wiring Diagram\Series 3_ver C\Ver D1(SERIES 3+)\705-00006D-A_SD01.ddb - Documents\PAGE 8_POWER DIST

DESIGNED BY:	DOCUMENT NUMBER:	LAST ECO:
S. FOUDIMOV	705-00006E-A SD01	
DRAWN BY:	LAST REVISED BY:	APPROVED BY:
S.FOUDIMOV	K.CHENG	
DESIGN DATE:	LAST MODIFIED DATE:	SHEET:
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TH3
THERMAL EXPOSURE HEAD
FLEX CABLE TRACK
EXPOSURE HEAD POWER
220-00991A
To PS3 -J1
TH3 POWER
[8]
EXPOSURE HEAD DATA and CONTROL
216-00117
To GMCE0- U126
TEMPERATURE-BALLSCREW
10-9094A
To GMCE0 - J46
BALLSCREW
TEMPERATURE SENSOR
10-0967A
MATE 1X3
CONNECTIONS FOR TH3 OPTION

TH2
THERMAL EXPOSURE HEAD
16 PIN SHELL
26 PIN SHELL
HOTLINK RG174
FLEX CABLE TRACK
EXPOSURE HEAD POWER
10-9096A
FROM PDB
[7]
EXPOSURE HEAD-CONTROL
10-9093A
EXPOSURE HEAD DATA
10-9095A
TEMPERATURE-BALLSCREW
10-9094A
BALLSCREW
TEMPERATURE SENSOR
10-0967A
MATE 1X3

220-00941A
TO DRUM DRIVE J5
DRUM DRIVE CONTROL
[11]
SHIELD
GRN 22
BLK 22
WHT 22
PRL 22
ORG 22
RED 22
BRN 22
(15) DA COM
(14) DA COMMON
(12) DA BRAKE
(11) DA PWM
(9) DA DIR
(1) DA +5V

MANIFOLD
INTERFACE
BOARD
10-4727A
J1
IDC,26PIN

ENGINE SOLENOID BLOCK
10-5141A
J2
DRV0S
DRVOD
PD
DRV1S
DRV1D
DRV2S
DRV2D
CON12
BLK 24
RED 24
SV1 "roller on"
SV14 "roller off"
SV2 LEC/TEC off
SV3 LEC/TEC on

10-5142A
J3
DRV3S
DRV3D
DRV4S
DRV4D
DRV5S
CON12
SV4 Backbone unload
SV5 Backbone load
SV6 Backbone tilt
SV7 Backbone horiz.
SV15 "headstage retract"
SV17 "aircurtain"

10-5143A
J4
DRV6S
DRV7S
DRV8S
CON12
SV8 "balancer extendhome"
SV9 "balancer extenaway"
SV10 "debris airjet on"

10-5144A
J5
DRV9S
DRV10S
DRV11S
CON12
SV11 "platedoor open"
SV12 "tec unlock"
SV13 LEC lock
SV16 RELEASE ENABLE
220-00773A

J4
J5
J6
See details on PAGE 9

RED 22
RED 24
BLK 22
10-9091B
To PEB, J2
RELEASE ADPT 1
[7]
MINIFIT 1X2
BLK 24
220-00142B
To LIONEL0, J11
RELEASE ADPT 2
[12]

To CONTROL PANEL
[23] START BUTN
[16] For CL
220-00328A
(1) +24V
(4) LED1 BNT
(0) UINT BUT-
(0) UINT PD BUT-
(1)(3) +5V
RED 22
BLK 22
GRN 22
YEL 22
WHT 22
IDC, MTA
J12
IDC,10PIN
J16

220-00320A
GND
LR QUE
+5V
PD
RED 22
WHT 22
GRN 22
BLK 22

To PLATE SEN 1
[10] PSEN 1
220-00322A

220-00170B
To GENINE1 J26
SCON BUS
[17]
SAT -48VSAFE
SAT -48VRTN
SAT -24SAFE
SAT -24SRTN
SAT -24V
BRD_LOC1-
BRD_LOC3-
CAN_H
CAN_L
CHASSIS
TERM_DET
SAT -24RTN
BRD_LOC+
BRD_LOC0-
BRD_LOC2-
BRN 18
BLU 18
GRN 18
WHT 18
RED 18
RED 24
BLK 24
GRN 24
WHT 24
BLK 18
DRAIN WIRE
SCON2
MINIFIT 2X8 CAN
J8

LSTEMP+
LSTEMP-
(4) BLK 22
(3) ORG 22
(0) BLK 22
(0) BLK 22
DB9,IDC
J46
RG174
HOT LINK
J1
HDB44,IDC
J2
DB 15, IDC
J35

10-5140A
J10
IDC,26PIN

GMCE0 BOARD
503-08443D
TMCE0 BOARD
10-4766D
(DOES NOT SUPPORT TH3)

+48V SAFE
+48V SAFE RTN
+24V SAFE
+24V SAFE RTN
+24V
CAN H
CAN L
CHASSIS
TERM DET
+24 RTN
DRAIN WIRE
BRN 18
BLU 18
GRN 18
WHT 18
RED 18
RED 24
BLK 24
GRN 24
WHT 24
BLK 18
MINIFIT 2X2
J7
MINIFIT 2X5
SCON 1

To PDB J14
[8] SCON BUS
220-00147A

WORKSTATION
ETHERNET CAT5e 216-00170
J42

J20
HDB15,IDC
J30
MINIFIT 2X6
J26
IDC, 20PIN
J13
UMNL 3X3
J19
IDC, 1X8 PIN
J21
IDC, 14PIN
J24
MINIFIT 2X4

TACH
ENCODER
32-4130A
MCE-TACH 10-5146A
PIN2
PIN5
PIN8
PIN11
BLK 22
PD
10-5117A

220-01495A (UPGRADE)
TEMP1+
TEMP1-
YEL 22
BLK 22
MATE 1X3
ENGINE TEMPERATURE SENSOR
THERMISTOR
10-0967A
10-5148B

CARRIAGE AMP CONTROL
J2
IDC, 20PIN
J1
CARRIAGE AMP POWER
+48V SAFE
RTN
BRN 16
BLK 16
220-00059A
[8] CA 48VDC
J3
MINIFIT 2X4
503-00265A
CARRIAGE DRIVE
MATE 1X2

11-0506B
M 2
CARRIAGE MOTOR
GND
CHASSIS
BLK 18 (RED PR)
WHT 18
RED 18
BLK 18 (WHT PR)
MATE 2X3
10-9062A
PHA:VO+
PHB:VO-
PHA:VO-
PHB:VO+
SHIELD
Gain 2 A/V
YEL 18

36-3145
PFO RECEIVER
36-3118
PFO TRANSMITTER
PLATE FLYOFF SENSOR

220-00772A
10-9070A
+24V (1)
PD+ (3)
PD- (4)
SHLD (5)
SEN1- (7)
SEN2+ (8)
GND (14)
PD+
PD-
RL V1-
RL V2-
RED 22
WHT 22
GRN 22
ORG 22
YEL 22
BLU 22
PD PROBES+
PD PROBES-
PD BR0+
PD BR0-
GND
SEN_OUT 0
SEN_OUT 1
SEN_OUT 2
DRIVE 0 EN
DRIVE1 EN
DRIVE2 EN
J1
MINIFIT 2X6
6-PIN REGISTRATION BOARD
10-9053A
J2
DRIVE 1
SENSOR 0
DRIVE 2
SENSOR 1
DRIVE0
PD.BKBN+
PD.BKBN-
SENSOR 2
BRN 22
RED22
ORG22
YEL 22
GRN 22
BLU 22
WHT 22
BLK 22
10-9069A
MINIFIT 2X4

REG. PROBE ASSY
11-1122B
220-00287A
J1
WHT24
RED 24
ORG 24
BLU 24
GRN 24
RED 22
BLK 22
BLK 24
MINIFIT
2X4
BRN 24 PROBE 2
RED24 PROBE 3
ORG24 PROBE 4
YEL 24 PROBE 5
GRN 24 PROBE 1
BLU 24 PD+
WHT 24 PD-
BLK 24 PROBE 6
220-00094A
REG. PINS on DRUM
220-00337A
RED 22
BLK 22
CONTINUITY SW ASSY
500-00855A

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MTA AUTOLOADER
GMCE0 INTERCONNECTIONS
WIRING DIAGRAM
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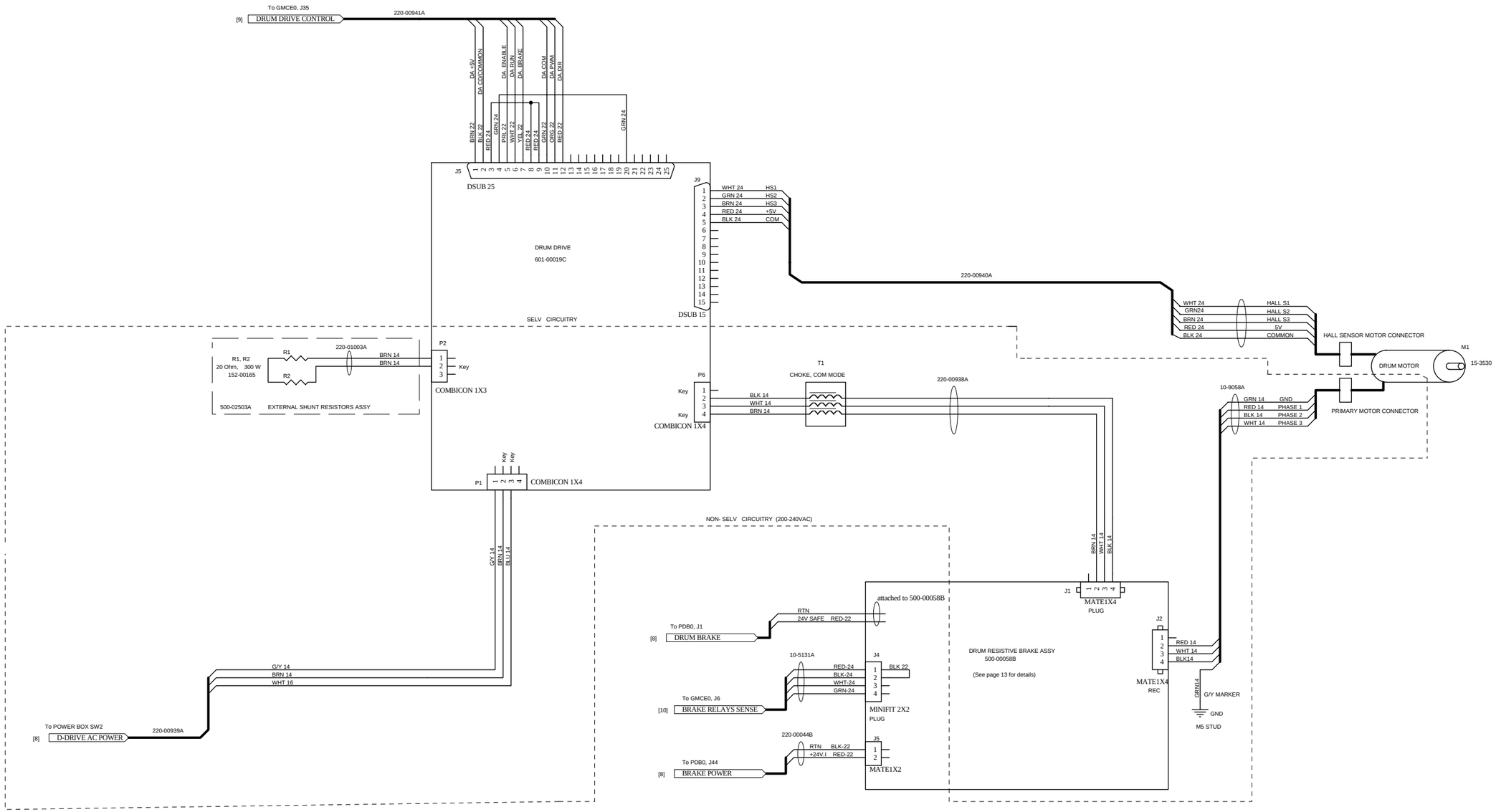
RLR_DOWN Away Side
RLR_UP Away Side
LEC_DOWN Away Side
LEC_UP Away Side
36-3125
10-4982A
LED+
LED-
COLLECTOR
EMITTER
RED 22
BLK 22
WHT 22
GRN 22
RED 24
BRN 24
WHT 24
GRN 24
ORG 24
BLU 24
YEL 24
TO DSEN1 LED+ (3)
TO DSEN1 LED- (22)
TO DSEN1 C (4)
TO DSEN1 E (23)
TO DSEN2 LED+ (5)
TO DSEN2 LED- (24)
TO DSEN2 C (6)
TO DSEN2 E (25)
TO DSEN3 LED+ (7)
TO DSEN3 LED- (26)
TO DSEN3 C (8)
TO DSEN3 E (27)
TO DSEN4 LED+ (9)
TO DSEN4 LED- (28)
TO DSEN4 C (10)
TO DSEN4 E (29)
(11) TO DSEN5 LED+
(30) TO DSEN5 LED-
(12) TO DSEN5 C
(31) TO DSEN5 E
CAR_AWAY
(13) TO DSEN6 LED+
(32) TO DSEN6 LED-
(14) TO DSEN6 C
(33) TO DSEN6 E
BAL_DETECT Away Side
(15) TO DSEN 7 LED+
(34) TO DSEN7 LED-
(16) TO DSEN7 C
(35) TO DSEN7 E
BAL_EXTEND Away Side
(17) TO DSEN8 LED+
(36) TO DSEN8 LED-
(18) TO DSEN8 C
(37) TO DSEN8 E
BAL_RETRACT Away Side
10-5005A
(1) TO DSEN 0 LED+
(20) TO DSEN0 LED-
(2) TO DSEN0 C
(21) TO DSEN0 E
10-9060A
RSW1 RSW2 RSW3 RSW4 RSW5 RSW6 RSW7 RSW8 RSW9 RSW10
10-5129A
J4 DB37M, IDC
HD-DB26F
PIN 5
PIN14
J14
ORG-26 LED BRD DIN+
WHT-26 LED BRD DIN -
220-01508A
10-9095A
DETAILS OF J4, J5, J6 WIRING FROM PAGE 9
GMCE0 BOARD
503-08443D
J18
CON12
LED BRD +5V
LED BRD PD
LED BRD +12V
LED BRD GND
LED BRD EN N+
LED BRD EN N-
LED BRD CS N+
LED BRD CS N-
LED BRD SRCK+
LED BRD SRCK-
LED BRD DOUT+
LED BRD DOUT-
CAM_IN_1
220-00983A
J5
DB25,IDC
J6 DB37F, IDC
220-00306A
220-00983A
(1) TO DSEN 18 LED+
(14) TO DSEN 18 LED-
(2) TO DSEN 18 C
(15) TO DSEN 18 E
BM_FORWARD Away Side
(3) TO DSEN 19 LED+
(16) TO DSEN 19 LED-
(4) TO DSEN 19 C
(17) TO DSEN 19 E
BM_CENTER BACK Away Side
(5) TO DSEN 20 LED+
(18) TO DSEN 20 LED-
(6) TO DSEN 20 C
(19) TO DSEN 20 E
BM_CENTER FORWARD Away Side
(7) TO DSEN21 LED+
(20) TO DSEN21 LED-
(8) TO DSEN21 C
(21) TO DSEN21 E
BM_ BACK Away Side
220-01508A
BLK-26
LED BRD +5V
LED BRD PD
LED BRD +12V
LED BRD GND
LED BRD EN N+
LED BRD EN N-
LED BRD CS N+
LED BRD CS N-
LED BRD SRCK+
LED BRD SRCK-
LED BRD DOUT+
LED BRD DOUT-
CON12
J1
503-00327A
LED DRIVER BOARD 1
J2
ORG-26 LED BRD DIN+
WHT-26 LED BRD DIN-
10-9095A
J4
J5 MNFT1X2
J6 MNFT1X2
J3 MINIFIT2X2
N/C
220-02209A
YEL-26 VIDEO_IN
BLK-26 GND_CAM
RED-26 +12V_CAM
YEL26
BLK-26
RED-26
220-02208A
220-02208A
BLK-22 LED CATHODE
RED-22 LED ANODE
LED2(TOP)
BRD1
BLK-22 LED CATHODE
RED-22 LED ANODE
LED1(BOT)
LED 1(BOT)
BRD1
CAMERA
CON4
EDGE DETECT CAMERA
600-00080
EDGE DETECT CAMERA ASSEMBLY
500-05190A
500-00271A
START BUTTON 3
START BUTTON 2
Text
220-00537A
220-00538A
220-00539A
220-00540A
LOAD RAMP PLATE SENSOR 1
LOAD RAMP PLATE SENSOR 2
LOAD RAMP PLATE SENSOR 3
36-3210
220-00322A
To GMCE0, J12 ADAPTOR
PSEN 1
[9]
220-00323A
MINIFIT 2X4
To RESISTIVE BRAKES ASSY
BRAKE RELAYS SENSE
[11]
TO DSEN9 LED+ (1)
TO DSEN9 LED- (20)
TO DSEN9 C (2)
TO DSEN9 E (21)
K1-ENG
15-3248
To PDB0- J37
K1-ENG
[8]
10-9068B
220-00446A
(11) TO DSEN14 LED+
(30) TO DSEN14 LED-
(12) TO DSEN14 C
(31) TO DSEN14 E
CAR_HOME
CAR_HOME CLEANING
(13) TO DSEN15 LED+
(32) TO DSEN15 LED-
(14) TO DSEN15 C
(33) TO DSEN15 E
BAL_DETECT Home Side
(3) TO DSEN10 LED+
(22) TO DSEN10 LED-
(4) TO DSEN10 C
(23) TO DSEN10 E
BAL_EXTEND Home Side
(5) TO DSEN 11 LED+
(24) TO DSEN11 LED-
(6) TO DSEN11 C
(25) TO DSEN11 E
BAL_RETRACT Home Side
500-00271A

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MTA AUTOLOADER
GMCE0 DIGITAL SENSORS
EDGE DETECT CAMERA
WIRING DIAGRAM

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Kodak	MTA AUTOLOADER DRUM DRIVER & MOTOR WIRING DIAGRAM	
C:\Kam\Manta\Wiring Diagram\Series 3_ver C\Ver D1(SERIES 3+)\705-00006D-A_SD01.ddb - Documents\PAGE 11_DRUM AMP		
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SCON1

LIONEL BOARD 0

10-4801B

Board Address = 0x40h

J9 — 2X5 MINIFIT JR — SCON2

+48V SAFE	BRN 18	1
+48V SAFE RTN	BLU 18	2
+24V SAFE	GRN 18	3
+24V SAFE RTN	WHT 18	4
+24V	RED 18	5
CAN H	RED 24	6
CAN L	BLK 24	7
CHASSIS	GRN 24	8
TERM DET	WHT 24	9
+24 RTN	BLK 18	10
DRAIN WIRE		

To PDB0, J13 — [8] SCON BUS — 10-5138A

TH3 PRESSURE SWITCH — 172-00064 — NO / PS2 / C — 220-00993A — MINIFIT 2X2

BLK 22	RED 22	TO DSEN4 LED+	(1)
	BLK 22	TO DSEN4 LED-	(4)
RED 22	WHT 22	TO DSEN4 C	(2)
BLK 22	GRN 22	TO DSEN4 E	(3)

J7 — DIG_IN2 — IDC,20PIN

RED 22	TO DSEN5 LED+	(5)	
BLK 22	TO DSEN5 LED-	(8)	
WHT 22	TO DSEN5 C	(6)	
GRN 22	TO DSEN5 E	(7)	
BRN 22	TO DSEN6 C	(10)	
BLU 22	TO DSEN6 E	(11)	
ORG 22	TO DSEN7 C	(14)	
YEL 22	TO DSEN7 E	(15)	

220-00992A

To TH3 POWER MODULE J2 — [8] POWER MOD STATUS

USED FOR TH3 OPTION ONLY

CHILLER PRESSURE SWITCH — 172-00045 — NO / PS1 / C — 220-00411A — MATE1X4

RED 22	DSEN9, LED+		1
BLK 22	DSEN9 C		2
BLK 22	DSEN9.E		3
	DSEN9, LED-		4
DR_LID+	DSEN10.C		5
DR_LID-	DSEN10.E		6
RED-22	TO DSEN11 LED+		7
WHT-22	TO DSEN11 C		8
GRN-22	TO DSEN11 E		9
BLK-22	TO DSEN11 LED-		10
ORG-22	TO DSEN12 LED+		11
BLU-22	TO DSEN12 C		12
YEL-22	TO DSEN12 E		13
BRN-22	TO DSEN12 LED-		14
RED-22	TO DSEN13 LED+		15
WHT-22	TO DSEN13 C		16
GRN-22	TO DSEN13 E		17
BLK-22	TO DSEN13 LED-		18
ORG-22	TO DSEN14 LED+		19
BLU-22	TO DSEN14 C		20
YEL-22	TO DSEN14 E		21
BRN-22	TO DSEN14 LED-		22
RED 22	TO DSEN15 LED+		23
ORG-22	TO DSEN15 C		24
WHT-22 (ORG PAIR)	TO DSEN15 E		25
WHT- 22 (RED PAIR)	TO DSEN15 LED -		26

10-9085B

J8 — DIG_IN3 — HDR 2X15

To DEBRIS REMOVAL BLKHD — [14] DEBRIS REMOVAL SENSORS

J13 — SCON 1 — MINIFIT 2X8 CAN

SAT +48SAFE	1
SAT +48SRTN	2
SAT +24SAFE	3
SAT +24SRTN	4
SAT +24V	5
BRD_LOC+	6
BRD_LOC1-	7
BRD_LOC3-	8
CAN_H	9
CAN_L	10
CHASSIS	11
TERM_DET	12
SAT +24RTN	13
BRD_LOC+	14
BRD_LOC0-	15
BRD_LOC2-	16

220-00169A — To GENINE 0 J24 — SCON BUS — [15]

J5 — PWM_OUT1 — MINIFIT 2X3 REC

J2 — SOL_DRV1 — SAMTEC, 2X8

BLK 22	ACT 0			1
RED 22	+24 V			2
				3
				4
				5
				6
				7
GRN-22	ACT 4	GRN-22		8
WHT-22	+24 V	WHT-22		9
BRN-22	ACT 5	BRN-22		10
ORG-22	+24 V	ORG-22		11
BLU-22	ACT 6	BLU-22		12
	ACT 7	YEL-22		13
YEL-22				14
				15
				16

220-00141B — BLK-22, RED-22 — MINIFIT 2X4

BLK 22		1
RED 22		2
WHT 22		3
GRN 22		4
		5
		6
		7
		8

220-00363B — ACT 0 (Plate Funnel) / +24 V

MAIN ENGINE MANIFOLD [9] — B: - / C: SV17 / A: + — "plate funnel on"

FUTURE OPTION

220-00142B — To RELEASE SV ADAPTOR — RELEASE ADPT 2 — [9]

(1) +24V RED-22

(12) RTN BLK-22

J11 — IDC, 14PIN

(5)	EREG.SEN0+	RED-22	1
(6)	EREG.SEN0-	BLK-22	2
(7)	EREG.SEN1+	ORG-22	3
(8)	EREG.SEN1-	GRN-22	4
(9)	EREG.SEN2+	WHT-22	5
(10)	EREG.SEN2-	BRN-22	6

ORG 22 / BLU-22 — MINIFIT 2X3

MINIFIT 2X4 — PWM_OUT2 — J1

J16 — AN_2 — 1X6 MTA

J17 — AN_1 — 1X6 MTA

RED 22	+24V	1
ORG 22	+24V	2
BRN 22	PWM4	3
	PD-PWM1+	4
WHT 22	PWM2	5
GRN 22	PWM3	6
BLU 22	PWM1	7
	PD-PWM1-	8
BLK 22		

220-00566A — RED 22 +24VDC / WHT 22 4-20mA Out / GRN 22 GND / BLU 22 PD+ / BRN 22 PD-

DRUM VACUUM — PSEB BOARD 10-4581A — MTA 1X6

518-00552A — To DRUM VACUUM PUMP — DRUM VAC. PUMP CONTROL — [27]

220-00413A — RED 22 +24V / BLK 22 GRN LEDs / WHT 22 BLUE LEDs / GRN 22 YEL LEDs / ORG-22 PD+ / BLU-22 PD-

MINIFIT 2X3

J1 — STATUS LIGHT LEDS BRD — 10-9063A — 1ROW IDC

TEC_LOCK — 36-3125 — 10-4982A — 220-00145A — MINIFIT 2X4

LED+	RED 22	RED 24	TO DSEN11 LED+	(9)
LED-	BLK 22	BLK 24	TO DSEN11 LED-	(12)
COLLECTOR	WHT 22	WHT 24	TO DSEN11 C	(10)
EMITTER	GRN 22	GRN 24	TO DSEN11 E	(11)

TEC_UNLOCK — 36-3125 — 10-4982A — MINIFIT 2X4

LED+	RED 22	ORG 24	TO DSEN12 LED+	(13)
LED-	BLK 22	BRN 24	TO DSEN12 LED-	(16)
COLLECTOR	WHT 22	BLU 24	TO DSEN12 C	(14)
EMITTER	GRN 22	YEL 24	TO DSEN12 E	(15)

LEC_LOCK — 36-3125 — 10-4982A — 220-00146A — MINIFIT 2X4

LED+	RED 22	RED 24	TO DSEN13 LED+	(17)
LED-	BLK 22	BLK 24	TO DSEN13 LED-	(20)
COLLECTOR	WHT 22	WHT 24	TO DSEN13 C	(18)
EMITTER	GRN 22	GRN 24	TO DSEN13 E	(19)

LEC_UNLOCK — 36-3125 — 10-4982A — MINIFIT 2X4

LED+	RED 22	ORG 24	TO DSEN14 LED+	(21)
LED-	BLK 22	BRN 24	TO DSEN14 LED-	(24)
COLLECTOR	WHT 22	BLU 24	TO DSEN14 C	(22)
EMITTER	GRN 22	YEL 24	TO DSEN14 E	(23)

10-9085B

PLATE FUNNEL DOWN — 36-3125 — 10-4982A

LED+	RED 22	RED 22	
LED-	BLK 22	WHT- 22 (RED PAIR)	
COLLECTOR	WHT 22	ORG-22	
EMITTER	GRN 22	WHT-22 (ORG PAIR)	

FUTURE OPTION

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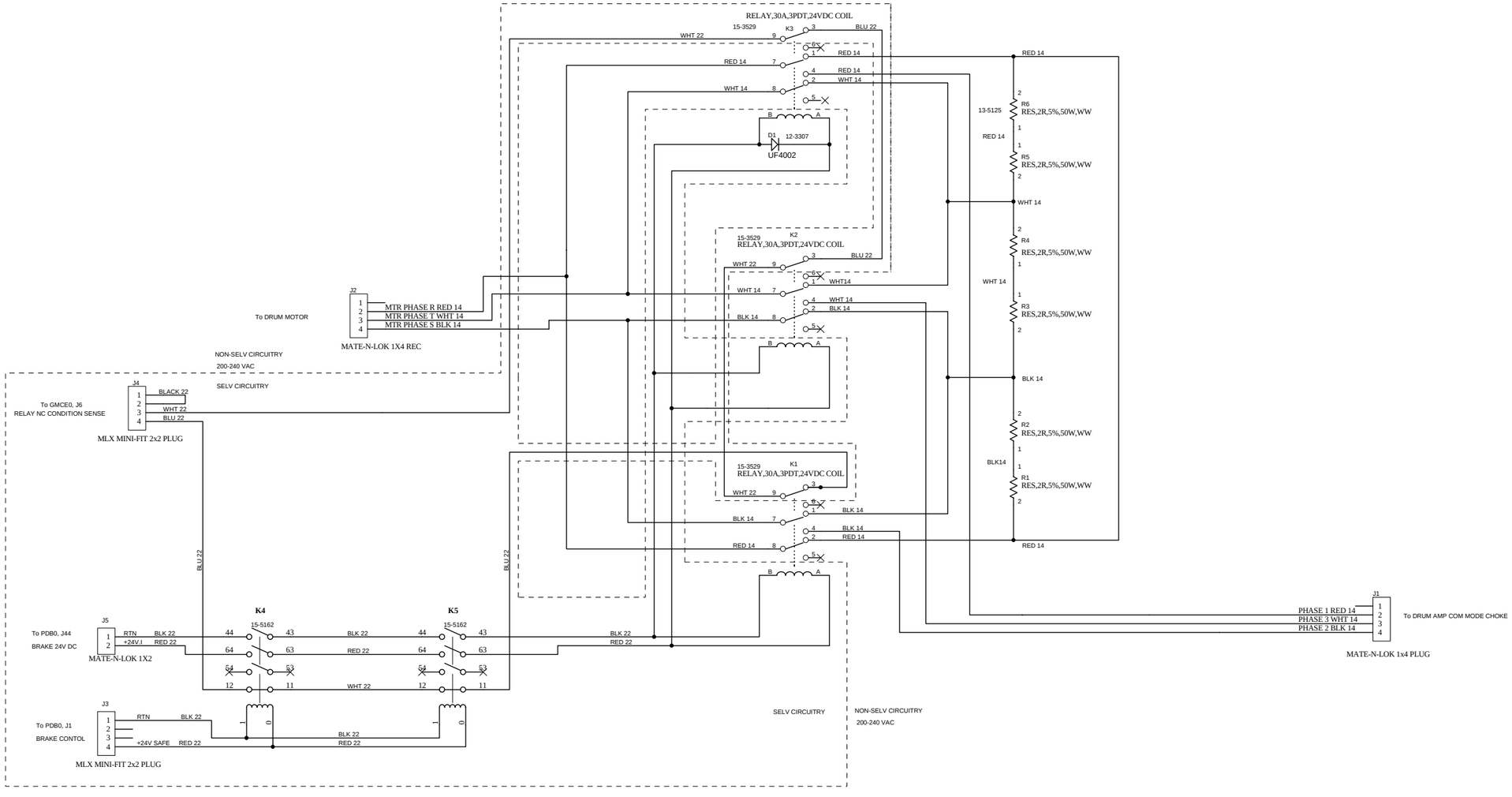
MTA AUTOLOADER
LIONEL0 BOARD
WIRING DIAGRAM

C:\Kam\Manta\Wiring Diagram\Series 3_ver C\Ver D1(SERIES 3+)\705-00006D-A_SD01.ddb - Documents\PAGE 12_LIONEL0 BC

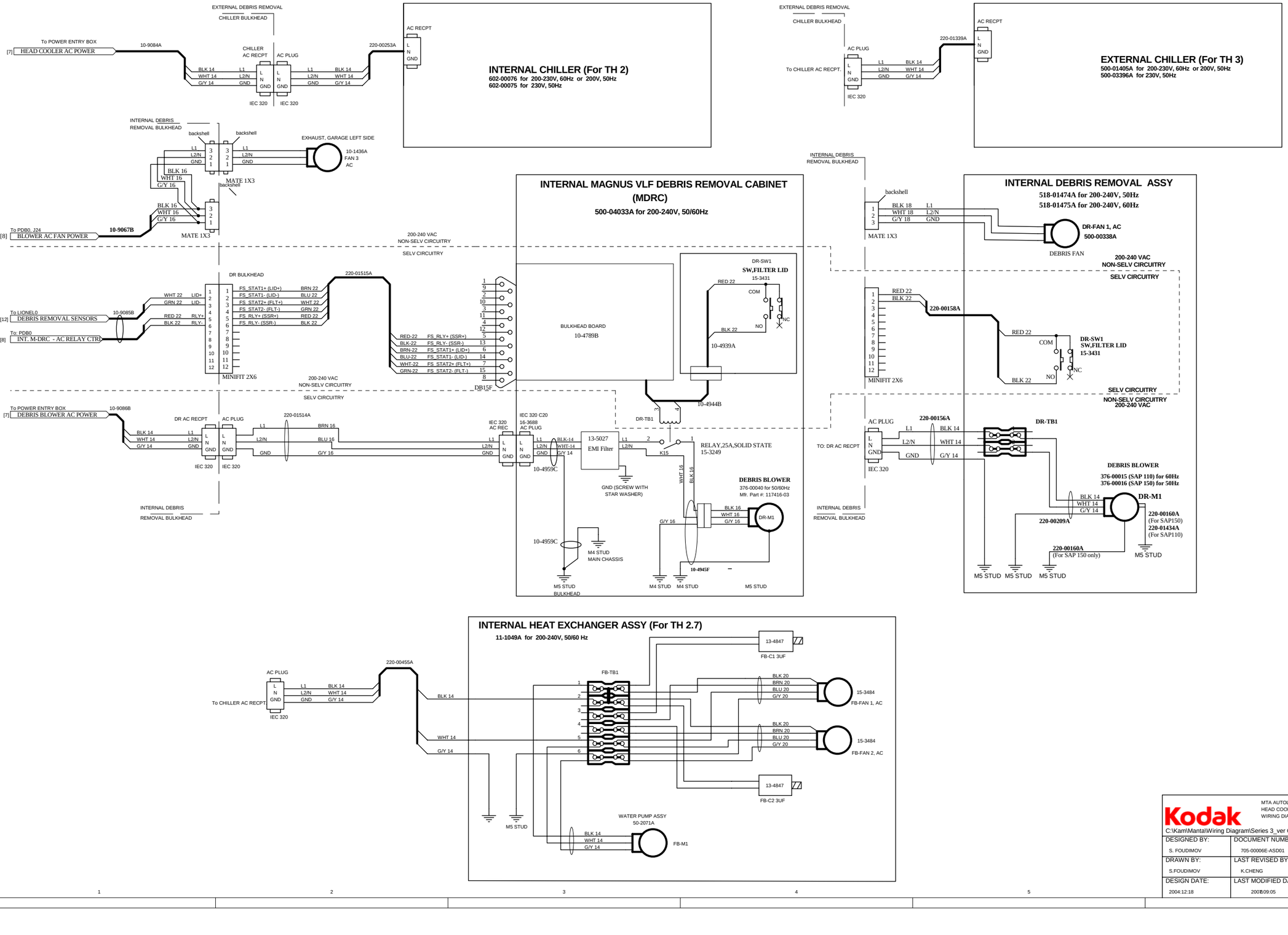
DESIGNED BY:	DOCUMENT NUMBER:	LAST ECO:
S. FOUDIMOV	705-00006E-A SD01	
DRAWN BY:	LAST REVISED BY:	APPROVED BY:
S.FOUDIMOV	CHENG	
DESIGN DATE:	LAST MODIFIED DATE:	SHEET:
2004:12:18	2006:07:08	12 of 29

DRUM RESISTIVE BRAKE ASSEMBLY 500-00058B

(See page 11 for details)



Kodak	MTA AUTOLOADER DRUM RESISTIVE BRAKE WIRING DIAGRAM	
C:\Kam\Manta\Wiring Diagrams\705-00006D-A_SD01\Ver D1(SERIES 3+)\705-00006D-A_SD01.ddb - Documents\PAGE 13_DRUM RESI		
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00006E-A SD01	LAST ECO:
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Kodak	MTA AUTOLOADER HEAD COOLER & DEBRIS WIRING DIAGRAM	
C:\Kam\Manta\Wiring Diagram\Series 3_ver C\Ver D1(SERIES 3+)\705-00006D-A_SD01.ddb - Documents\PAGE 14_ HEAD COO		
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00006E-ASD01	LAST ECO:
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HEAD STAGE_HOME
HEAD STAGE_AWAY
36-3125
10-4982A
LED+
LED-
COLLECTOR
EMITTER
RED 22
BLK 22
WHT 22
GRN 22
RED 24
BLK 24
WHT 24
GRN 24
TO HOME.1 LED+ (1)
TO HOME.1 LED- (4)
TO HOME.1 C (2)
TO HOME1. E (3)
ORG 24
BLU 24
YEL 24
BRN 24
TO AWAY.1 LED+ (5)
TO AWAY.1 LED- (8)
TO AWAY.1 C (6)
TO AWAY.1 E (7)
NOT USED FOR TH3 OPTION
220-00543A
220-00226A
FETCHER PRESSURE
PRESSURE SENSE BOARD
10-4887A
MTA 1X6
220-00225A
220-00227A
(Add 220--00432A for L-R config.)
MINIFIT 2X5
SS VACUUM
PSEB BOARD
10-4581A
RED 22
WHT 22
GRN 22
BLU 22
BRN 22
ORG 22
VIO 22
YEL 22
GRY 22
BLK 22
RED 24
WHT 24
GRN 24
BLU 24
WHT-BLK 24
ORG 24
RED-WHT 24
BLU-BLK 24
ORG-BLK 24
+24VDC
4-20mA Out
NC
GND
PD+
PD-
J3
MTA 1X6
ANALOG0
J1
ANALOG1
J20
2X6 HDR
HA-1
UNUSED
J11
UMNL 2X3
TEMP
J13
DB9F
RS232 PORT
220-00435A
SAT_+48SAFE
SAT_-48SRTN
SAT_+24SAFE
SAT_+24SRTN
BRD_LOC0-
BRD_LOC1-
BRD_LOC2-
BRD_LOC3-
CAN_H
CAN_L
CHASSIS
TERM_DEF
SAT_+24RTN
BRD_LOC+
BRD_LOC0+
BRD_LOC1+
BRD_LOC2+
J26
MINIFIT 2X8 CAN
SCON1
220-00325A
To BULKHEAD MOD#2
SCON BUS [23]
MINIFIT 2X4
RED24
BLK24
WHT24
GRN24
ORN
RED 22
ORN_WIRE
220-00169A
To LIONEL0 J13
SCON BUS [12]
J24
MINIFIT 2X5 CAN
SCON2
NOT USED FOR TH3 OPTION
WHT 22
VIO 22
RED 22
BLU 22
PHA+ YEL
PHA- BLK
PHB- RED
PHB+ GRY
MINIFIT 2X2
500-01662A
M 7
184-00038
HEAD STAGE MOTOR
220-00544A
500-01641A
R1, R2 152-00097
RES,100R,1%,25W,WW
PHA- WHT 22
PHB- RED 22
PD+ GRN 22
PHA+ VIO 22
PHB+ BLU 22
PD- GRN 22
UNML 2X4
J25
UMNL 2X4
STPR-DRIVE
MINIFIT 2X3
PD
220-00192A
J14
2X6 HDR
HA-0
PD+ BLK 22 (10)
PD- (12)
FETCHER_HOME
FETCHER_AWAY
TO HOME.0 LED+ (1)
TO HOME.0 LED- (4)
TO HOME.0 C (2)
TO HOME0. E (3)
TO AWAY.0 LED+ (5)
TO AWAY.0 LED- (8)
TO AWAY.0 C (6)
TO AWAY.0 E (7)
220-00230A
J17
2X10 HDR
STPR-CNTL
GENINE BOARD 0
10-4227D
BOARD ADDRESS = 0X30h
(Add 220-00431A for L-R config.)
(1) ACT8+ RED 22
(2) ACT9+ WHT 22
(3) ACT10+ GRN 22
(4) ACT11+ BLU 22
(5) ACT12+ PRP
(6) ACT13+ ORG 22
(7) ACT14+ VIO 22
(8) ACT15+ YEL 22
(9) ACT16+ GRY 22
(25) +24V SAFE BLK 22
(26) +24V SAFE BRN 22
RED 24 ACT8+
WHT 24 ACT9+
GRN 24 ACT10+
BLU 24 ACT11+
WHT-BLK 24 ACT12+
ORG 24 ACT13+
RED-WHT 24 ACT14+
BLU-BLK 24 ACT15+
ORG-BLK 24 ACT16+
BLK 24 +24V SAFE
GRN-BLK 24 +24V SAFE
MINIFIT 2X6
220-00236A
FETCHER MOTOR
11-0851B
M 6
GND
CHASSIS
BLK 18 (RED PR)
WHT 18
RED 18
BLK 18 (WHT PR)
MATE 2X3
220-00191A
PHA.VO+
PHB.VO+
PHA.VO-
PHB.VO-
SHIELD
Gain 2 A/V
YEL 18
J3
MINIFIT 2X4
J2
IDC, 20PIN
503-00265A
CARRIAGE DRIVE
J1
+48V SAFE
RTN
MATE 1X2
220-00190A
BRN 16
BLK 16
BLK 22
PD
J27
MINIFIT 2X3
STPR-PWR
220-00231A
(Add 220-00430A for L-R config.)
RED 22 TO DSEN4 LED+ (1)
WHT 22 TO DSEN4 LED- (4)
VIO 22 TO DSEN4 C (2)
GRN 22 TO DSEN4 E (3)
ORG 22 TO DSEN5 LED+ (5)
BRN 22 TO DSEN5 C (6)
BLU 22 TO DSEN5 E (7)
GRY 22 TO DSEN6 C (10)
YEL 22 TO DSEN6 E (11)
J4
2X10 HDR
DIGITAL-IN2
SOL-DRV1
J21
2X13 HDR
220-00201A
MANIFOLD INTERFACE BOARD
10-4727A
J1
CON12
J2
220-00193A
ACT8+ BLK 22
+24V RED 22
ACT9+ BLK 22
+24V RED 22
ACT10+ BLK 22
+24V RED 22
ACT11+ BLK 22
+24V BLK 22
ACT12+ RED 22
+24V BLK 22
ACT13+ RED 22
J3
220-00194A
ACT14+ BLK 22
+24V RED 22
ACT15+ BLK 22
+24V RED 22
ACT16+ BLK 22
+24V RED 22
IDC,26PIN
FETCHER SOLENOID BLOCK
SV1 "fetcher cups up"
SV2 "fetcher vac on"
SV3 Fetcher SS picker down
SV4 "fetcher ss icup up"
SV5 Fetcher SS ocup up
SV6 Fetcher SS ocup down
SV7 "fetcher SS vac on"
SV8 "fetcher SS ejector on"
SV9 "fetcher platereject on"
J2
2X15 HDR
DIGITAL-IN3
J10
2X7 HDR
DIGITAL-IN 1
J5
2X17 HDR
DIGITAL-IN4
J18
2X8 HDR
SOL-DRV0
220-00232A
220-00517A
To EXTERNAL DEVICE INTERFACE BRD. J6
EXTERNAL DEVICE OUTPUT INTERFACE [24]
220-00516A
To EXTERNAL DEVICE INTERFACE BRD. J5
DUAL PROCESSOR INTERFACE [24]
220-00515A
To EXTERNAL DEVICE INTERFACE BRD. J4
SINGLE PROCESSOR INTERFACE [24]
WEDGE MASTER UP
PLATE-ON-FETCHER
36-3210
220-00228A
MINIFIT 2X5
PVAC VACUUM
172-00021
FETCHER SAFE HOME
FETCHER SAFE AWAY
220-00229A

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MTA AUTOLOADER
GENINE 0 FETCHER
WIRING DIAGRAM

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S.FOUDIMOV	K.CHENG	
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HEAD STAGE_HOME

36-3125 — 10-4982A

LED+	RED 22	RED 24	TO HOME.1 LED+	(1)
LED-	BLK 22	BLK 24	TO HOME.1 LED-	(4)
COLLECTOR	WHT 22	WHT 24	TO HOME.1 C	(2)
EMITTER	GRN 22	GRN 24	TO HOME1. E	(3)

HEAD STAGE_AWAY

36-3125 — 10-4982A

LED+	RED 22	ORG 24	TO AWAY.1 LED+	(5)
LED-	BLK 22	BLU 24	TO_AWAY.1 LED-	(8)
COLLECTOR	WHT 22	YEL 24	TO AWAY.1 C	(6)
EMITTER	GRN 22	BRN 24	TO AWAY.1 E	(7)

NOT USED FOR TH3 OPTION

220-00543A

J3 MTA 1X6 ANALOG0

J1 MTA 1X6 ANALOG1

J14 2X6 HDR HA-0

J17 2X10 HDR STPR-CNTL

J27 MINIFIT 2X3 STPR-PWR

J20 2X6 HDR HA-1

PD+ PD- BLK 22 VIO (11)

UNUSED

J11 UMNL 2X3 TEMP

UNUSED

J13 DB9F RS232 PORT

220-00435A

MINIFIT 2X4

RED24 BLK24 WHT24 GRN24 GRN RED 22

220-00325B

J26 MINIFIT 2X8 CAN SCON1

SAT_+48SAFE SAT_+48SRTN SAT_+24SAFE SAT_+24SRTN SAT_+24V BRD_LOC1+ BRD_LOC1- BRD_LOC3- CAN_H CAN_L CHASSIS TERM_DET SAT_+24RTN BRD_LOC2+ BRD_LOC2-

220-00169A

To LIONEL0 J13 SCON BUS [12]

J24 MINIFIT 2X5 CAN SCON2

SAT_+48SAFE SAT_+48SRTN SAT_+24SAFE SAT_+24SRTN SAT_+24V CAN_H CAN_L CHASSIS TERM_DET SAT_+24RTN

220-00325B

120R,5%,.25W,CAR

2.7K 5%,.25W,CAR

CL PLUG 220-00477A — MACHINE BULKHEAD MODULE # 2

CAN H	RED 24	CAN H
CAN L	BLK 24	CAN L
TERM DET	WHT 24	TERM_DET
	GRN 24	CHASSIS
	RED 22	DRAIN WIRE
+24V	RED 22	+24V
GRN 22	RED 22	RED 22
	BLK 22	BLK 22
GRN 22	BLK 22	
	RED 22	

MATE1X2

220-00454A — To PDB0, J30 EXT. LOOP 5A [8]

To ESTOP CIRCUITRY ADAPTOR BULK MOD#2 [16]

To ES 7 ES 7 [16]

GENINE BOARD 0

10-4227D

BOARD ADDRESS = 0X30h

NOT USED FOR TH3 OPTION

WHT 22 VIO 22 RED 22 BLU 22 — MINIFIT 2X2 — PHA+ YEL, PHA- BLK, PHB- RED, PHB+ GRY

500-01662A — M 7 — 184-00038 — HEAD STAGE MOTOR

220-00544A

500-01641A

R1, R2 152-00097 RES,100R,1%,25W,WW

PHA- WHT 22	WHT 22	WHT 22
PHB- RED 22	RED 22	RED 22
	VIO 22	VIO 22
PD+ GRN 22	BLU 22	BLU 22
PHA+ VIO 22	GRN 22	GRN 22
PHB+ BLU 22	GRN 22	PD
PD- GRN 22		

J25 UMNL 2X4 STPR-DRIVE — UNML 2X4 — MINIFIT 2X3

J10 2X7 HDR DIGITAL-IN 1

J5 2X17 HDR DIGITAL-IN4

J18 2X8 HDR SOL-DRV0

220-00515A — To EXTERNAL DEVICE INTERFACE BRD. J4 SINGLE PROCESSOR INTERFACE [24]

220-00516A — To EXTERNAL DEVICE INTERFACE BRD. J5 DUAL PROCESSOR INTERFACE [24]

220-00517A — To EXTERNAL DEVICE INTERFACE BRD. J6 EXTERNAL DEVICE OUTPUT INTERFACE [24]

EMERGENCY STOP SW FRONT AWAY — ES2 15-3474 — 220-00402A

CONTROL PANEL SHOULDER AWAY PANEL

MINIFIT 2X4

220-00326B

220-00327A — To PDB0 (J42) MAIN ESTOP [8]

MINIFIT 1X2

EMERGENCY STOP SW REAR UPPER AWAY — ES3 15-3474

220-01338A

220-00399A

EMERGENCY STOP SW REAR UPPER HOME — ES4 15-3474

220-00398C

MINIFIT 1X2

220-00325B — BULKHEAD MOD#2 BULK MOD#2 [16]

SHOULDER HOME PANEL

EMERGENCY STOP SW FRONT HOME — ES5 15-3474

220-00330B

MINIFIT 1X2

EMERGENCY STOP SW REAR LOWER HOME — ES6 15-3474

220-01337B

220-00331B

EMERGENCY STOP SW REAR LOWER AWAY — ES7 15-3474

To MODULE #2 ES 7 [16]

220-00325B

500-00261A START BUTTON 1 — LP1

WHT 22 GRN 22 WHT 22 RED 22 BLK 22

220-00401A

YEL 22 BRN 22 GRN 22 WHT 22 RED 22 BLK 22

MINIFIT 2X3 — MINIFIT 2X3

220-00328A — To GMCE0, J16 START BUTN [9]

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MTA AUTOLOADER

GENINE0 CL OPTION

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(ADD 220-00425A FOR L-R CONFIG.)

220- 00255A

36-3205

BAUMER SLIP SHEET
UNDER PLATE SENSOR
FZAM18N6460/S14

BRN 22
BLU 22
BLK 22

MINIFIT 2X2

RED 22
GRY 22

15-3359

K1

BLK 22
RED 22
GRN 22
WHT 22

220-00248A

(1) +24V
(6) ES 0
(8) ES 0
(13) GND

J10
2X7 HDR
DIG_IN 1

To GMCE0, J8
[9] SCON BUS

220-00170B

SAT +48SAFE
SAT +48SRTN
SAT +24SAFE
SAT +24SRTN
SAT +24V
BRD_LOC+
BRD_LOC1-
BRD_LOC3-
CAN_H
CAN_L
CHASSIS
TERM_DET
SAT +24RTN
BRD_LOC4+
BRD_LOC0-
BRD_LOC2-
RED22

J3
MTA 1X6
ANALOG0

J26
MINIFIT 2X8 CAN
SCON1

220-00171B

To GENINE2 J24
SCON BUS [18]

SAT +48SAFE
SAT +48SRTN
SAT +24SAFE
SAT +24SRTN
SAT +24V
CAN_H
CAN_L
CHASSIS
TERM_DET
SAT +24RTN

J24
MINIFIT 2X5 CAN
SCON2

J25
UMNL 2X4
STPR-DRIVE

PHA+ RED 22
PHB- BLK 22 (WHITE PAIR)
PD+ GRN 22
PHA- BLK 22(RED PAIR)
PHB+ WHT 22
Chassis
PD- GRN 22
Shield

220-00184A

PHA+ BLK
PHA- GRN
PHB- BLU
PHB+ RED

MINIFIT 2X2

500-00717A

M 3

LOAD CARRIAGE MOTOR

LOAD CARRIAGE_HOME

36-3125
10-4982A

LED+
LED-
COLLECTOR
EMITTER

RED 22
BLK 22
WHT 22
GRN 22

RED 24
BLK 24
WHT 24
GRN 24

TO HOME.1 LED+ (1)
TO HOME.1 LED- (4)
TO HOME.1 C (2)
TO HOME1 E (3)

220-00195A

LOAD CARRIAGE_AWAY

TO AWAY.1 LED+ (5)
TO AWAY.1 LED- (8)
TO AWAY.1 C (6)
TO AWAY.1 E (7)

J20
2X6 HDR
HA-1

PD+ BLK 22 (10)
PD- (11)

SIDE EJECTOR_HOME

TO HOME.0 LED+ (1)
TO HOME.0 LED- (4)
TO HOME.0 C (2)
TO HOME0. E (3)

220-00196A

J14
2X6 HDR
HA-0

PD+ BLK 22 (10)
PD- (12)

SIDE EJECTOR_AWAY

TO AWAY.0 LED+ (5)
TO AWAY.0 LED- (8)
TO AWAY.0 C (6)
TO AWAY.0 E (7)

220-00187A

J17
2X10 HDR
STPR-CNTL

GENINE BOARD 1
10-4227D
BOARD ADDRESS = 0X31h

MANIFOLD
INTERFACE
BOARD
10-4727A

220-00185A

J21
2X13 HDR

SOL-DRV1

J1
IDC,26PIN

LOAD TABLE SOLENOID BLOCK

J2
CON12

220-00197A

ACT8+
ACT9+
ACT10+
ACT11+
ACT12+
ACT13+
+24V
BLK-22
RED-22

SV1 Loadtable centercups up/n
SV2 Loadtable centercups dn/n
SV3 Loadtable leftrightcups up/n
SV4 Loadtable leftrightcups dn/n
SV5 "loadtable centercups vac on"
SV6 "loadtable leftcups vac on"
SV7 "loadtable rightcups vac on"
SV8 "ejector pusher1 down"
SV9 Unloadtable tilt/stop
SV10 "loadtable centering unlock"
SV11 "loadtable wiffle lock"
SV12 Unloadtable untilt/stop

J3
CON12

220-00198A

ACT14+
ACT15+
ACT16+
ACT17+
ACT18+
ACT19+

J4
CON12

220-00483B

ACT20+
ACT22+
ACT24+

SV13 "loadtable platestop up"
SV14 "loadtable pullout lock"
SV15 "ejector pusher up/n"

J5
CON12

220-02171A

ACT26+

SV16 "Plateangler"

SIDE EJECTOR MOTOR
11-0851B

M 4

GND
CHASSIS

BLK 18 (RED PR)
WHT 18
RED 18
BLK 18 (WHT PR)
SHIELD

220-00186A

PHA:VO+
PHB:VO+
PHA:VO-
PHB:VO-

Gain 2 A/V

YEL 18

MATE 2X3

J3
MINIFIT 2X4

J2
IDC, 20PIN

503-00265A
CARRIAGE DRIVE

J1
MATE 1X2

+48V SAFE
RTN

220-00188A

BRN 16
BLK 16
PD
BLK22

J27
STEPPER POWER
MINIFIT 2X3

2X17 HDR
DIGITAL-IN4
J5

2X15 HDR
DIGITAL-IN3
J2

2X10 HDR
DIGITAL-IN2
J4

220-00249B

220-00250A

220-00251B

LOADER VAC CUPS CENTER

172-00021

RED 22
BLK 22

TO DSEN9.C (2)
TO DSEN9.E (3)

LOADER VAC CUPS LEFT

ORG 22
BRN 22

TO DSEN10.C (6)
TO DSEN10.E (7)

LOADER VAC CUPS RIGHT

YEL 22
WHT 22

TO DSEN11.C (10)
TO DSEN 11.E (11)

LOAD TABLE CLOSED 1
(LOCATED CLOSER TO DRUM)

36-3210

RED 22
WHT 22
GRN 22

TO DSEN16 LED+ (1)
TO DSEN16 C (2)
TO DSEN16 E (3)

LOAD TABLE CLOSED 2
(LOCATED FARTHER FROM DRUM)

TO DSEN17 LED+ (5)
TO DSEN17 C (6)
TO DSEN17 E (7)

UNLOAD TABLE_TILT

TO DSEN19 LED+ (13)
TO DSEN19 C (14)
TO DSEN19 E (15)

UNLOAD TABLE_HORIZONTAL

TO DSEN20 LED+ (17)
TO DSEN20 C (18)
TO DSEN20 E (19)

SIDE BRIDGE IN POSITION

TO DSEN 4 LED+ (1)
TO DSEN 4 C (2)
TO DSEN 4 E (3)

PLATE ON PROCESSOR

220-00364A

P?

TO DSEN 5 LED+ (5)
TO DSEN 5 C (6)
TO DSEN 5 E (7)

MINIFIT 2X2

ACCESS PANEL CLOSED SW

15-3355

220-00426A

(ADD 220-00436A FOR L-R CONFIG.)

RED 22
BLK 22

TO DSEN21.C (22)
TO DSEN21.E (23)

MINIFIT 1X2

PLATE STOP UP

10-4982A

LED+
LED-
COLLECTOR
EMITTER

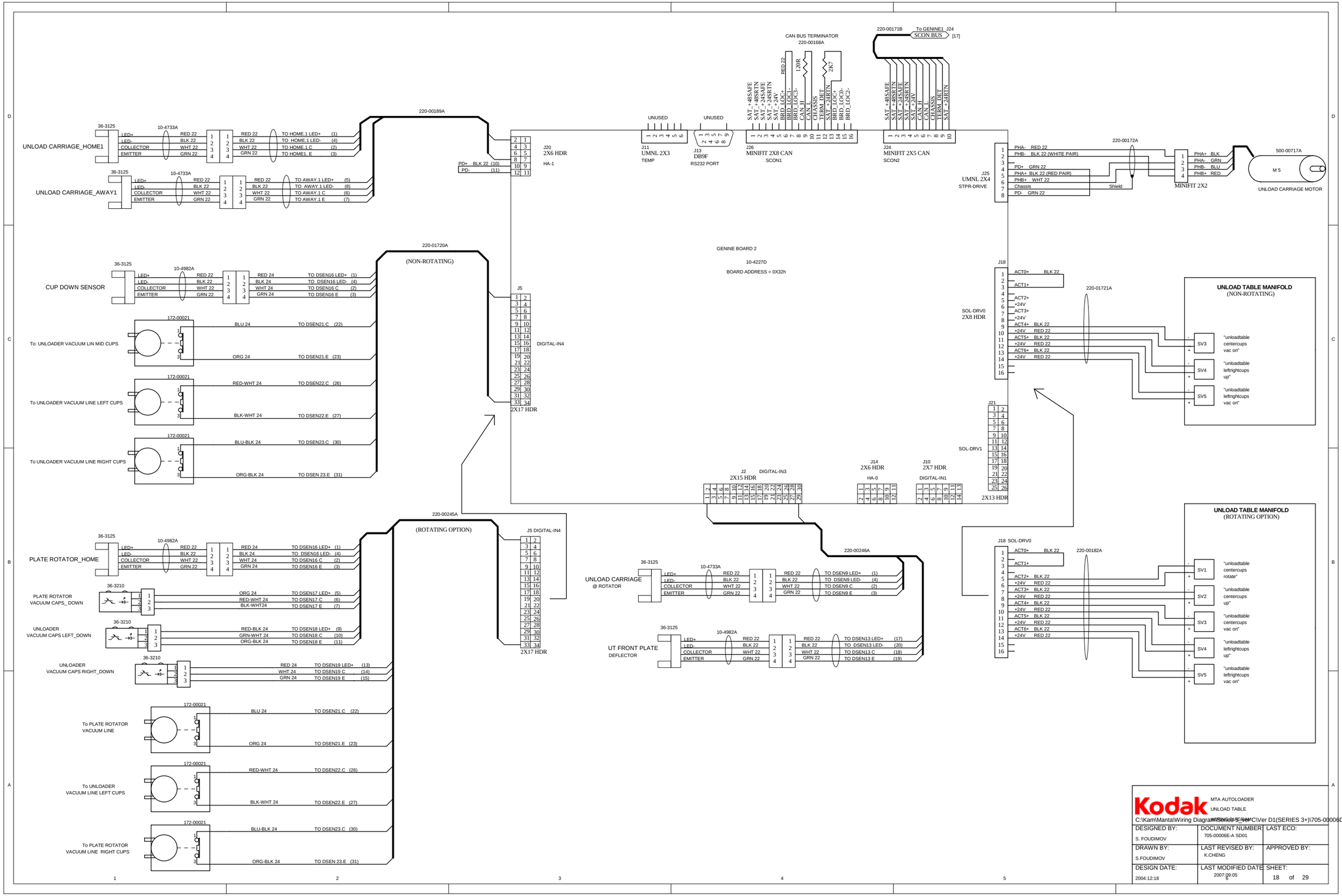
220-00482A

TO DSEN12 LED+ (13)
TO DSEN12 LED- (16)
TO DSEN12 C (14)
TO DSEN12 E (15)
TO DSEN13 LED+ (17)
TO DSEN13 LED- (20)
TO DSEN13 C (18)
TO DSEN13 E (19)

PLATE STOP DOWN

MINIFIT 2X4

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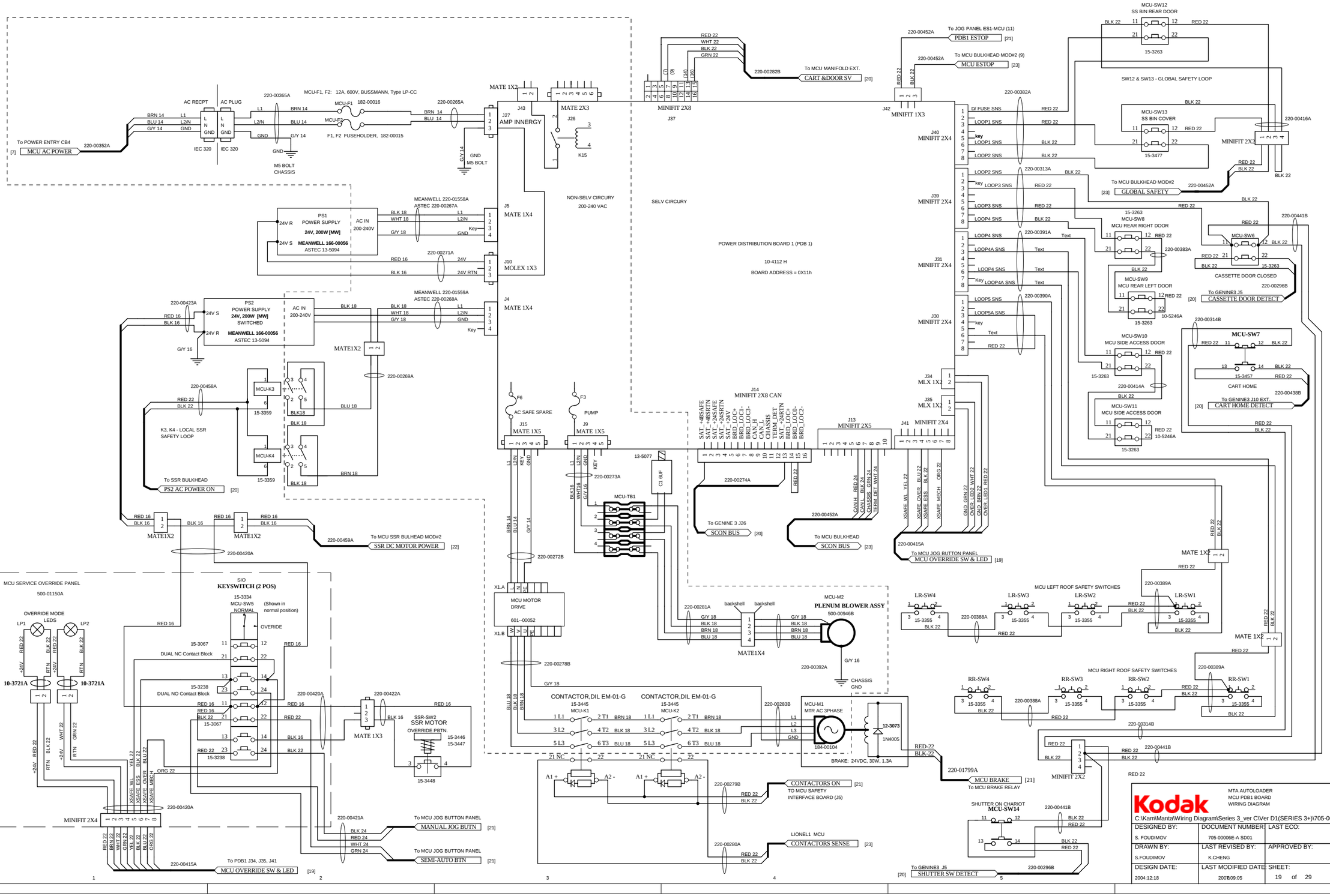


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MTA AUTOLOADER
UNLOAD TABLE
WIRING SCHEMATIC

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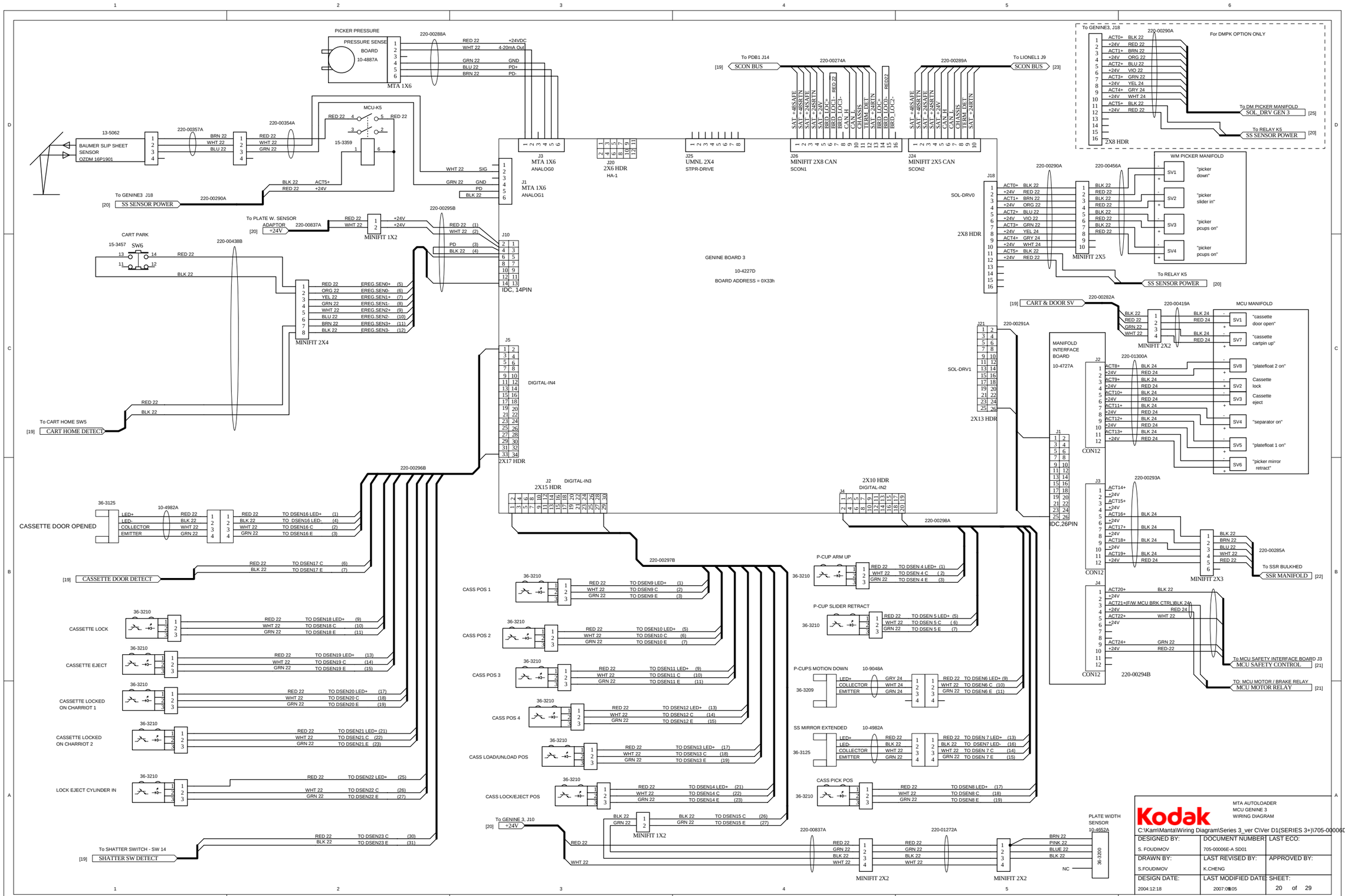
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S.FOUDIMOV	K.CHENG	
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MTA AUTOLOADER
MCU PDB1 BOARD
WIRING DIAGRAM

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S. FOUDIMOV	705-00006E-A SD01	
DRAWN BY:	LAST REVISED BY:	APPROVED BY:
S.FOUDIMOV	K.CHENG	
DESIGN DATE:	LAST MODIFIED DATE:	SHEET:
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MTA AUTOLOADER
MCU GENINE 3
WIRING DIAGRAM

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MCU SERVICE OVERRIDE PANEL

500-01150A

MCU-SW1

2 POSITION LEVER SWITCH

15-3536

LEFT - SEMI-AUTO MODE POS 2

RIGHT - MANUAL JOG MODE POS 1

MODES OF OPERATION:

JOG MODE:

PUT OVERRIDE SWITCH IN OVERRIDE POSITION.
PUT LEVER SWITCH IN POS. 1
TO MOVE FORKS UP - PRESS AND HOLD PUSHBUTTON MCU-SW3
TO MOVE FORKS DOWN - PRESS AND HOLD MCU-SW4
PRESSING BOTH WILL RESULT IN THE FORKS MOVING DOWN.

SEMI-AUTOMATIC MODE:

PUT OVERRIDE SWITCH IN OVERRIDE POSITION.
PUT LEVER SWITCH IN POS. 2
PRESS AND HOLD MCU-SW2 WHILE REGULAR AUTOMATIC OPERATION IS BEING CONDUCTED.

MCU-SW2 PUSHBUTTON HOLD FOR SEMI-AUTO

15-3446 15-3447

15-3238

15-344B

WHT 24

GRN 24

BLK 24

MCU-SW3 JOG UP PUSHBUTTON

MCU-SW4 PUSHBUTTON JOG DOWN

GND

GND (SW)

220-00421A

[19] SEMI-AUTO BTN To MCU OVERRIDE SW.

[19] MANUAL JOG BUTN To MCU OVERRIDE SW.

220-01799A

MAN BRK OFF BRN-22 GND BLK-22

FW BRK OFF BRN-22

ACT21+(F/W MCU BRK CTRL) BLK-22

174-00035 BRAKE RELAY Input: 3.5 - 30 VDC Output: 3 Amps DC

MCU BRAKE RELAY

+24V SAFE (MNFLD) RED-22

220-00294B

RED-22

BRAKE OFF WHEN CURRENT FLOWS

[20] MCU MOTOR RELAY To MCU MNFLD IF BRD (J4)

[19] MCU BRAKE To MCU BRAKE TERM BLOCK ON MCU MOTOR

220-01799A

220-00280A

[23] MCU SAFETY SENSING To MCU LIONEL1 (J8)

[19] CONTACTORS ON To MCU CONTACTOR COILS

220-00279B

Install jumper 220-01923A on Brake Relay when using any Software lower than CR4.0.
Fuse F6 will blow on PDB if jumper is not installed.

220-01923A

YEL-16

MINIFIT 2X2

GRN 22 WHT 22 BLK 22

15-3355

MCU NUT SWITCH (DETECTS MCU NUT FAILURE)

RED 22 BLK 22

MCU-T1 THERMOSTAT 60 C

170-00024

RESET MANJALLY AT TEMP BELOW 42 C (PROVIDES MCU-M1 THERMAL PROTECTION)

UPPER & LOWER LIMIT SWITCHES

15-3457

UPPER LIM SWITCH

SW2

SW3

LOWER LIM SWITCH 15-3457

220-00315A

RED 22 BLK 22 WHT 22 GRN 22

J1

2X2 MINIFITJR

220-00421A

J4

1	+24VSAFE
2	JOG MODE
3	ACT20+(MOTOR RUN)
4	SEMI/AUTO RUN
5	JOGGED RUN
6	JOG DOWN
7	SERV PNL SW OVR
8	GND
9	

RED 24 WHT 24 GRN 24 YEL 24 ORG 24 BLK 24

MCU SAFETY INTERFACE BOARD

10-4697C

J3

1	24V SAFE
2	ACT20+(MOTOR RUN)
3	ACT22+(DIR DOWN)
4	ACT24+(FREQ SLOW)
5	SENS 13.E (MOTOR RUN)
6	SENS 13.C (MOTOR RUN)
7	SENS14.C(SFTY LOOP)
8	SENS14.E(SFTY LOOP)
9	GND
10	

RED 22 BLK 22 WHT 22 GRN 22

2X5 MINIFITJR

[20] MCU SAFETY CONTROL To MCU MNFLD IF BRD (J4)

24V OK

DS1 LED,GRN R3 2K2

SAFETY LOOP OK

DS2 LED,YEL R4 2K2

J5

1	CONTACTOR COIL+
2	GND
3	
4	
5	
6	

2X3 M'nL

D8 UF4002

J8 1X2 M'nL 24V SAFE

J9 1X2 M'nL

J6 1X2 M'nL

J7 1X2 M'nL

J10 1X2 M'nL CONTACTOR COIL+

220-00418A

SELV CIRCUITRY

NON-SELV CIRCUITRY

DIRECTION UP DOWN K2 RTE24024 D4 UF4002

RUN K1 RTE24024 D1 UF4002

DIR DOWN ISOLATION K3 RTE24024 D2 UF4002

SPEED SLOW K4 RTE24024 D3 UF4002

DIRECTION SIGNAL PULLED LOW = DOWN

RUN SIGNAL CONTROLLED BY F/W AND K6, K7. ACTIVE LOW

AUTO/JOG SIGNAL SELECTOR 1

DIR DOWN REQ

SPEED SLOW REQ

K5 RTE24024 D5 UF4002

AUTO/JOG SIGNAL SELECTOR2

K6 RTE24024 D6 UF4002

RUN SIGNAL CONTACTOR

RUN REQ

K7 RTE24024 D7 UF4002

K5, K6 ENERGIZED WHEN LEVER SWITCH SET TO JOG MODE

RELAY ENERGIZED WHEN MCU SAFETY LOOP IS OK

J2 2X6 MINIFIT

220-00311B

INVERTER CONTROL

1	N/O CONTACT1	RED 22	X2 A 24 N/O CONTACT
2	N/O CONTACT2		
3	FREQ 1 (FAST)	WHT 22	26 SW COMMON
4	FREQ 2 (SLOW)	GRN 22	10 FREQ 1 (FAST)
5	+24V DC	BLK 22	11 FREQ2 (SLOW)
6	REVERSE	BRN 22	22 DC COMMON
7	FORWARD		
8	DC COMMON		
9	CONT REL (RUN)		
10		YEL 22	20 24VDC
11		BLU 22	15 REVERSE
12		ORG 22	14 FORWARD
		GREY 22	16 CONT REL (RUN)

601-00052 MCU MOTOR DRIVE

MOTOR RUN SENS ISOLATION

R1 1K

U1A ILQ30

U2A ILQ30

R2 1K8

EMERGENCY STOP SWITCH

ES1-MCU 15-3474

ES2-MCU 15-3474

ES3-SSR 15-3474

220-00317A

220-00417A

220-00452A

[19] PDB1 ESTOP To PDB1 (J42)

[23] ESTOP1 FOM MCU To MCU BULKHEAD MOD#2 (11)

[23] ESTOP3 FROM SSR To MCU BULKHEAD (12)

[23] ES3-SSR To MCU BULKHEAD MOD#2 (10)

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MTA AUTOLOADER
MCU SAFETY INTERFACE BOARD
WIRING DIAGRAM

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SSR 500-00307A

SSR

UMBILICAL CABLE

220-00453A

220-00458A

220-00459A

MINIFIT 2X7

MODULE #1
220-00461A

MODULE #2
220-00462A

COMPACTOR RETRACT SENSOR

CONTACTS CLOSE WHEN COMPACTOR RETRACTS

15-3355

COMPACTOR EXTEND SENSOR

CONTACTS CLOSE WHEN COMPACTOR EXTENDS

To MCU LIONEL1 J11
[23] SSR SENSORS 3

To MCU LIONEL1 J8
[23] SSR SENSORS 2

To MCU LIONEL1 J8
[23] SSR SENSORS 1

To MCU MANIFOLD INT. BOARD
[20] SSR MANIFOLD

To MCU PS2
[19] SSR DC MOTOR POWER

To K3,K4 MCU PDB1
[19] PS2 AC POWER ON

EREG.PD+	RED 22	GND	RED/WHT & BLK STRIPES 24	1	RED 22	
EREG.PD-	BLK 22	EREG.PD+	BLU/BLK STRIPE 24	2	RED 22	
EREG.SEN0+	WHT 22	EREG.PD-	GRN 24	3	+5V	
EREG.SEN1+	GRN 22	EREG.SEN0+	RED/BLK STRIPE 24	4		
EREG.SEN2+	YEL 22	EREG.SEN1+	BLU 24	5	BLK 22	
EREG.SEN3+	BLU 22	EREG.SEN2+	WHT/BLK STRIPE 24	6		
+24V SAFE SWITCHED	RED 22	EREG.SEN3+	BLU/RED STRIPE 24	7	WHT 22	
+24V	ORG 22	+24VSAFE(SW)	BLK/WHT STRIPE 24	8	+24VSAFE (SWITCHED)	RED 22
EREG.SEN3- (GND)	BRN 22	+24V	WHT/RED STRIPE 24	9		
DSEN 10.C	RED 22	EREG.SEN3-	BLU/WHT STRIPE 24	10	GND	GRN 22
		DSEN 10.C	GRN/WHT & BLK STRIPES 24	11		
		SPARE	ORG/RED STRIPE 24	12	N/C	

ACT16+	BLK 22	ACT16+	GRN/BLK STRIPE 24	1		
SENS12.LED-	BLK 22	SENS12.LED-	WHT/RED & BLK STRIPES 24	2		
SENS11.LED+	RED 22	SENS11.LED+	GRN/WHT STRIPE 24	3	+5V	
SENS11.C	BRN 22	SENS11.C	ORG 24	4	GRN 22	
SENS11.E	BLU 22	SENS11.E	BLK 24	5	BLK 22	
SENS11.LED-	WHT 22	SENS11.LED-	BLK/RED STRIPE 24	6	RED 22	
+24V SAFE	RED 22	+24VSAFE	ORG/BLK STRIPE 24	7	+24VSAFE	
ACT17+	BRN 22	ACT17+	RED 24	8	BLK 22	
ACT18+	BLU 22	ACT18+	RED/WHT STRIPE 24	9	BLK 22	
ACT19+	WHT 22	ACT19+	WHT 24	10		
RED 16		PS2 +24V	RED 16	11	+24V	
BLK 16		PS2 +24VRTN	BLK 16	12	RTN	

SSR-SW1
ROLLER CLOSE
OVERRIDE PBTN.
15-3447
15-3448

SSR LOCAL SAFETY LOOP
SS BIN FRONT DOOR SWITCH
15-3263

+24VSAFE RED 22

1 RED 2 YEL 3 BLK 4 WHT
16-3666

10-5247A YEL 22
10-5247A RED 22

ROLLER CLOSED SWITCHES
15-3355
FAR END
NEAR END

CONTACTS 3 AND 4 ARE CLOSED WHEN ROLLER IS CLOSED

ASSY BIN FULL SENSOR 10-4652A
36-3200

SSR compactor off
16-4248

ROLLER OPEN SENSOR
36-3210

SSR roller close
16-4248

SSR roller open
16-4248

SSR compactor on
16-4248

MOTOR ON SENSE
SSR-K3
15-3359

SSR-CB1
15-3472 4A
P&B W28-XQ1A4

SSR-M1
SSR MOTOR
10-4756A

M5 BOLT
MCU CHASSIS
GND

G/Y 16
220-00523A

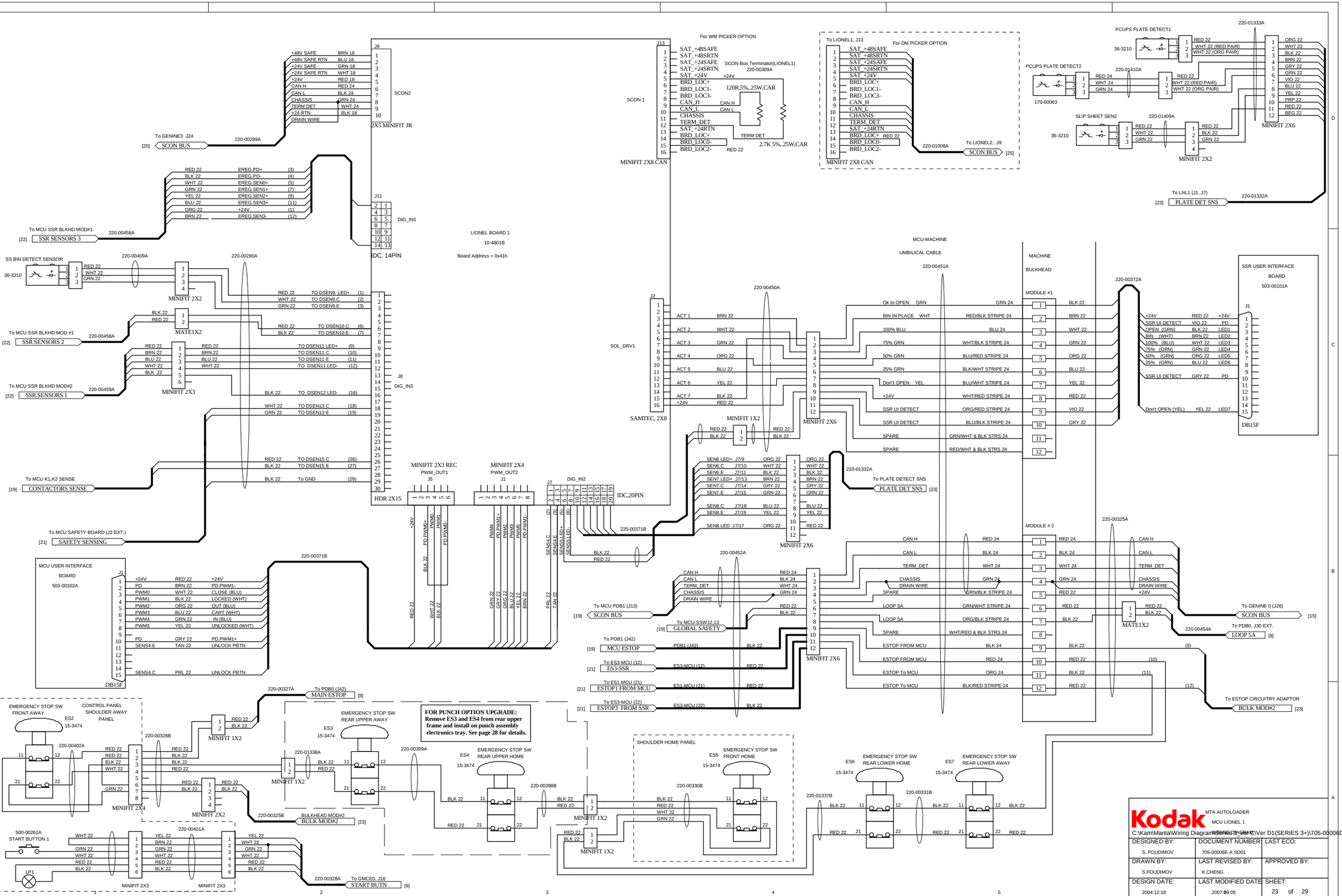
M5 BOLT
SSBIN PANEL
GND

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MTA AUTOLOADER
SLIP SHEET REMOVAL MODULE
WIRING DIAGRAM

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S.FOUDIMOV	K.CHENG	
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Kodak MTA AUTOLOADER MCU LIONEL 1

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S.FOUDIMOV	K.CHENG	
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2004:12:18	2007:09:05	23 of 29

MTA DRUM VACUUM PUMP ASSY (MTA-DVP) 500-01555B

200 - 240 VAC NON-SELV CIRCUITRY

SELV CIRCUITRY

LINE CORD

CSA/UL Type SJT, 12AWG, 3con, 300V, 60Deg.C, HAR/VDE Type H05VV-F, 2x4mm sq., 500V, 32A

200-240 VAC, 50/60HZ, 20A

AC IN

L1 BRN 12

L2/N BLU 12

GND G/Y 12

15-3427

S1

SW 3PST

220-01485A

LF1

FILT30A

P E N P' N'

162-00011

BRN 12

BLU 12

GND G/Y 12

10-0092A

M5 STUD

CABLES & PLUGS

North America (220-01487A)

16-4560 - NEMA Type L6-30P, Locking, 250VAC, 30A

Outside NA (220-01486A)

16-4024 - IEC Std. 309, Industrial Type B Plug, 250V, 32A

220-01491A

F1, F2: 12A, 600V, BUSSMANN, Type LP-CC for 60 Hz

F1, F2: 15A, 600V, BUSSMANN, Type LP-CC for 50 Hz

182-00016 for 60 Hz

182-00021 for 50 Hz

F1

F2

F1, F2 FUSEHOLDER, 182-00015

13-4847

C1 3UF

TB1

1 2 3 4

220-01490A

M5 STUD

L1 BRN 14

L2/N BLU 14

GND G/Y 14

220-01492A

220-00609A

K1

1 2 3 4

RELAY,25A,SOLID STATE

15-3249

L1 BRN 14

L2/N BLU 14

GND G/Y 14

M 1

376-00030

DRUM VACUUM PUMP MOTOR

GY 14

220-00836A

GND

M5 STUD

L1 BRN 20

C1 BRN 20

L2/N BLU 20

GND G/Y 20

FAN 1

10-4143A

BLK 22 PWM 2

RED 22 +24V

220-00610A

1 RED 22

2 BRN 22

3

4 WHT 22 PWM 2

5 GRN 22 PWM 3

6 BLU 22 PWM 5

7 ORG 22 +24V

8

MINIFIT 2X4

To LIONEL 0 (J1)

220-00611A

DVP CNTRL [11]

BLK 22

RED 22

THERMOSTAT 60 C

170-00024

T1

RESET MANUALLY

AT TEMP BELOW 42 C

DRUM VACUUM PUMP

WIRING DIAGRAM

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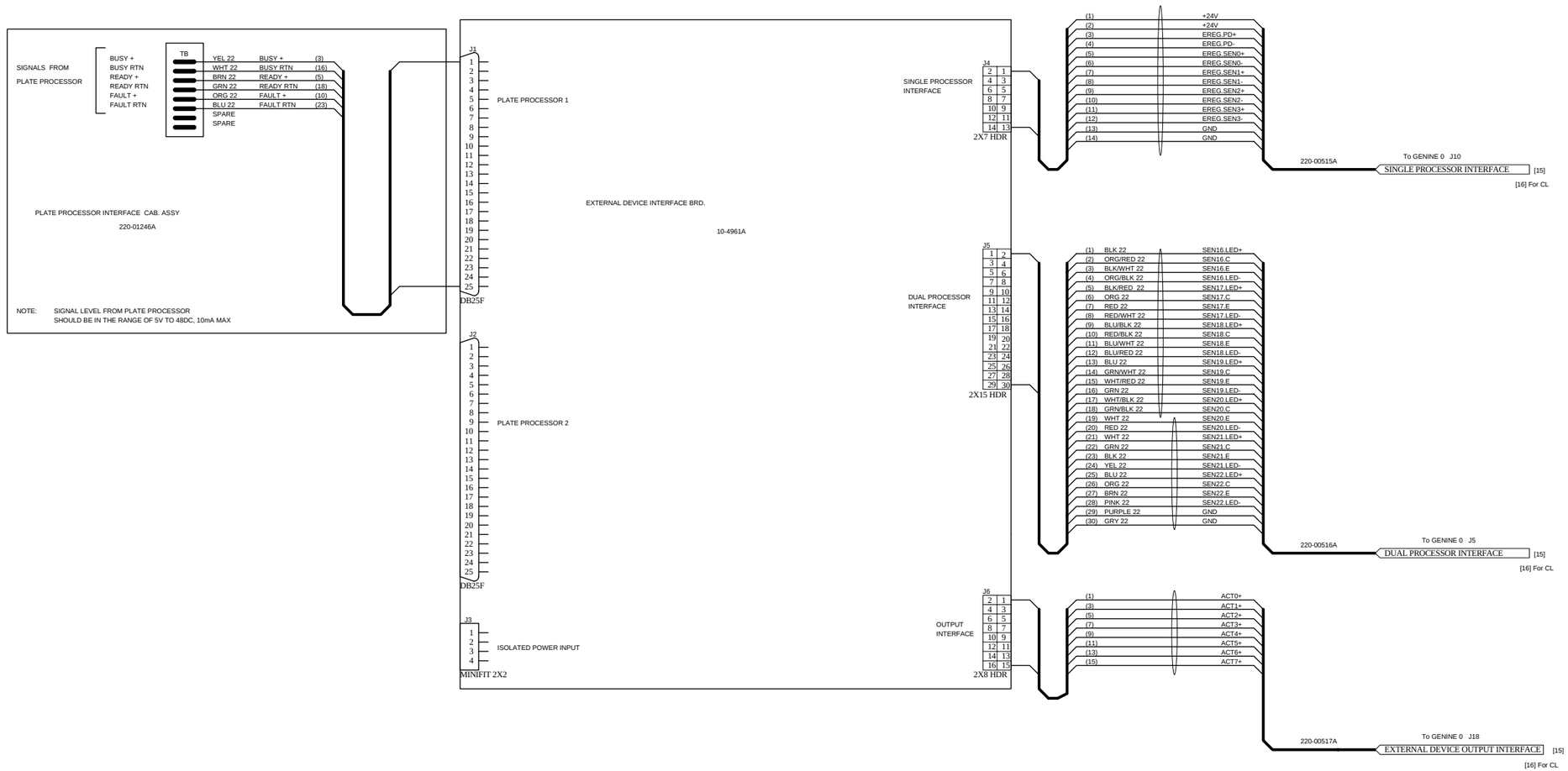
MTAAUTOLOADER

DRUM VACUUM PUMP

WIRING DIAGRAM

C:\Kam\Manta\Wiring Diagram\Series 3+\D1(SERIES 3+)\705-00006D-A_SD01.ddb - Documents\PAGE 27_MANTA DRU

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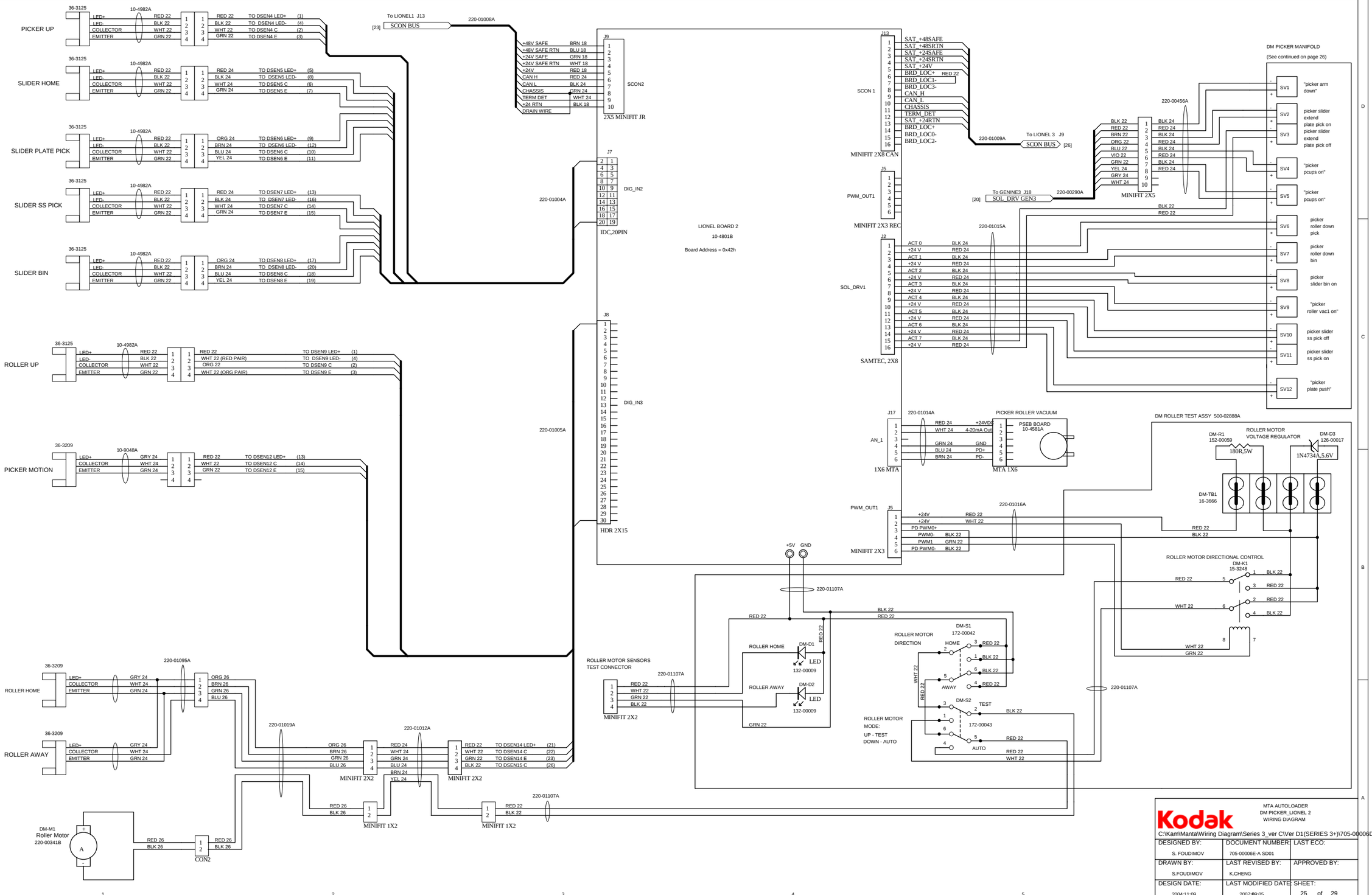


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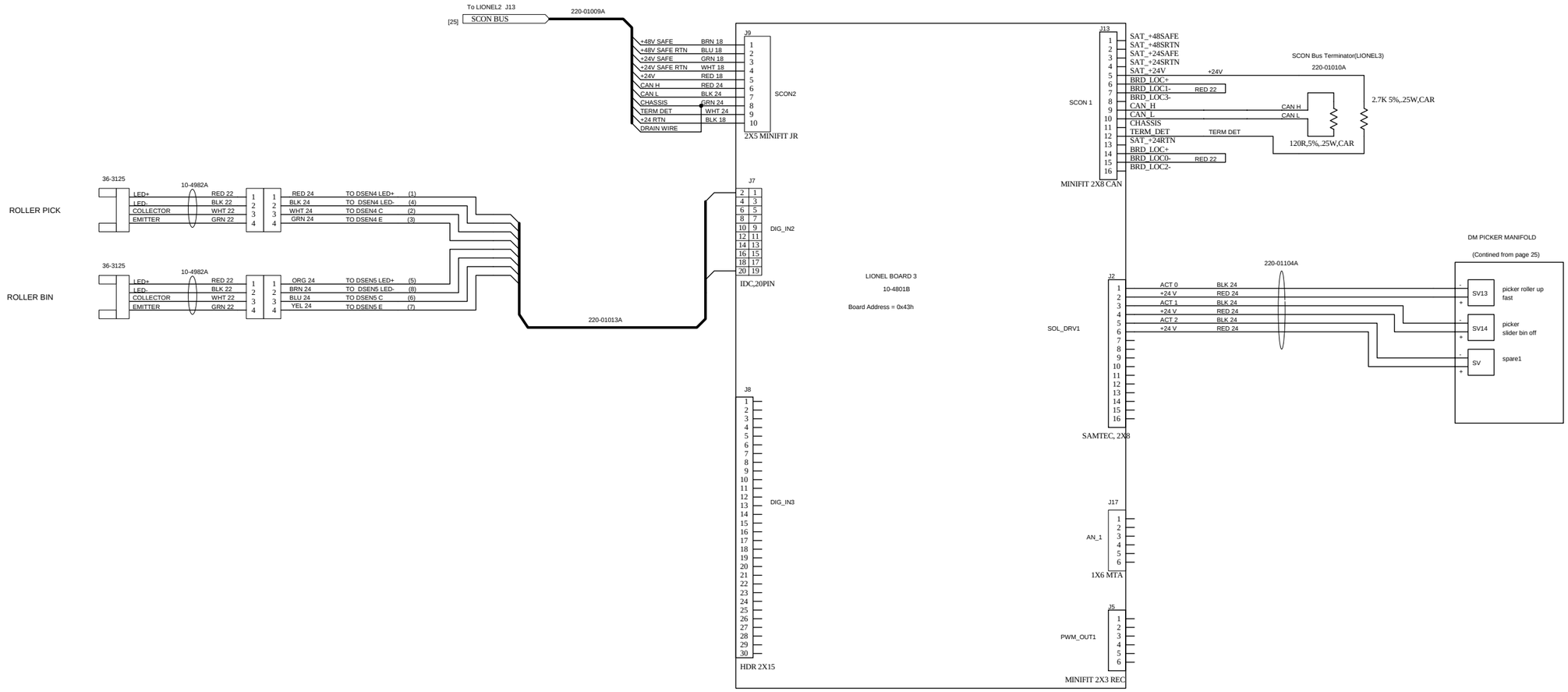
MTA AUTOLOADER
PROCESSOR INTERFACE BOARD
WIRING DIAGRAM

C:\Kam\Manta\Wiring Diagrams\Ver D1(SERIES 3+)\705-00006D-A_SD01.ddb - Documents\PAGE 24_PROCESSOR

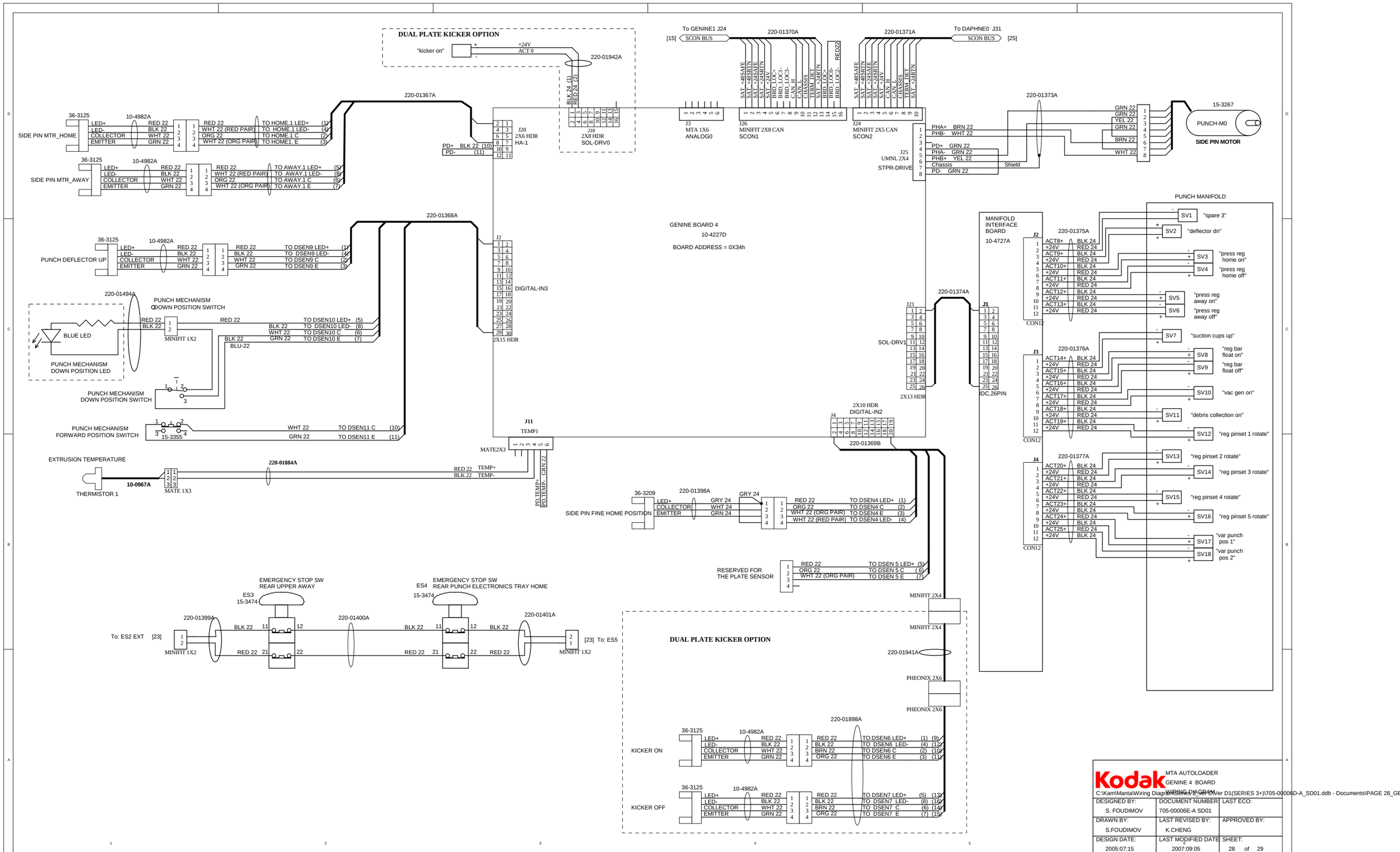
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Kodak	MTA AUTOLOADER DM PICKER_LIONEL 2 WIRING DIAGRAM	
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MTA AUTOLOADER		
DM PICKER_LIONEL 3		
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MTA AUTOLOADER
GENINE 4 BOARD
WIRING DIAGRAM

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DAPHNE 0

503-00246A

BOARD ADDRESS = 0X20h

To GENINE4 J24 [24] SCON BUS — 220-01371A — To 220-00171B SCON BUS [16]

220-01372A

220-01405A

J34 MATE-N-LOK 1X3 — J31 MINIFIT 2X8 CAN — SCON2 — J32 MINIFIT 2X5 CAN SCON1

SAT_+48SAFE, SAT_+48SRTN, SAT_+24SAFE, SAT_+24SRTN, SAT_+24V, CAN_H, CAN_L, CHASSIS, TERM_DEF, SAT_+24RTN, BRD_LOC0-, BRD_LOC1-, BRD_LOC2-, BRD_LOC3-

SIDE PIN LEAD-SCREW TEMPERATURE — THERMISTOR 2 — 10-0967A — MATE 1X3 — 220-01381A — MINIFIT 1X3 — 220-01380A

YEL 22 BLK 22 RED 22 — RED 22 BLK 22 RED 22 — RED 22 TEMP+ / BLK 22 TEMP- / PD.TEMP+ / GRN 22 PD.TEMP-

TEMP2 — J27 — MATE2X3

PUNCH SIDE REG. PIN — RED 22

PUNCH REG. PINS — 220-01382B — YEL 22, ORG 22, BLK 22, BLU 22, RED 22, RED 22, BLK 22, RED 22, BLK 22, ORG 22, YEL 22 — MINIFIT 2X5

220-01402B — DRIVE 2 SENSOR 1 DRIVE 3 SENSOR 2 DRIVE 1 SENSOR 3 — WHT 22 RED22 BRN 22 BLK 22 GRN 22 BLU 22 — J2 MINIFIT 2X4

PD.BKBN+ PD.BKBN- WHT 22 BLU 22

220-01741A — J3 CON2 — GND.1 GND.1 — 6-PIN REG. BRD 1 503-00445a

J1 CON12 — RED/BLK 22, BLU/BLK 22, RED 22 (PD-), GRN/BLK 22, GRN/WHT 22, BLK 22, BLU/WHT 22, ORG/BLK 22, ORG 22, RED/WHT 22

SEN.OUT1 GRN 22; SEN. OUT 2 BLK 22; SEN. OUT 3 YEL 22; DRIVE 1.EN; DRIVE2.EN; DRIVE3.EN

PD+ (5V) BLU/BLK 22; SEN.OUT1 GRN/WHT 22; GND GRN/BLK 22; PD- WHT/BLK 22; SEN. OUT 2 BLK 22; SEN. OUT 3 BLU/WHT 22; +24V SEN. OUT4 BLU 22; SEN.OUT5 RED 22; SEN.OUT 6 WHT 22

J18 DIGITAL_IN — 2X15 HEADER

ORG/BLK 22, RED/BLK 22, ORG 22, RED/WHT 22, GRN 22, BLK/WHT 22

J33 SOL_DRV OUT — 2X8 HEADER

J3 CON2 — GRN 22 GRN 22 — J2 MINIFIT 2X4 — 220-01402B — DRIVE 5 SENSOR 4 DRIVE 6 SENSOR 5 DRIVE 4 SENSOR 6 — WHT 22 RED 22 BRN 22 BLK 22 GRN 22 BLU 22 — PD.BKBN+ PD.BKBN- WHT 22 BLU 22

J1 CON12 — RED 22 RED 22 WHT/BLK 22 GRN 22 BLU 22 RED 22 WHT 22 GRN 22 BLK/WHT 22 — SEN. OUT4 SEN.OUT5 SEN.OUT 6 DRIVE4.EN DRIVE5.EN

6-PIN REG. BRD 2 503-00445A

RED 22 NC — BLU 22 BRN 22 — J1 MINIFIT 1X2

LED D1 LED D2 LED D3 LED D4 LED D5 LED D6 +5V — GRN 22 BLK 22 YEL 22 BLU 22 WHT 22 RED 22 BRN 22 — MINIFIT 2X4 — 220-01403B

BLK 22 BLK 22 BLK 22 BLK 22 BLK 22 BLK 22 RED 22

R1 511R 13-3034 — R2 511R 13-3034 — R3 511R 13-3034 — R4 511R 13-3034 — R5 511R 13-3034 — R6 511R 13-3034

D1 LED,RED 132-00009 — D2 LED,RED 132-00009 — D3 LED,RED 132-00009 — D4 LED,RED 132-00009 — D5 LED,RED 132-00009 — D6 LED,RED 132-00009

REG. PINS 1-10 — REG. PINS 2-9 — REG. PINS 3-8 — REG. PINS 4-7 — REG. PINS 5-6 — SIDE REG. PIN

J22 AN-OUT — DB15F

AN_OUT1 +24V GND AN_OUT2 PD_AN_OUT+ PD_AN_OUT- CHASSIS

WHT 22 GRN 22 BLU 22 ORG 22

PRESSURE REGULATOR HOME — RED 22 BRN 22 BLK 22 — V+ SIG COM

PRESSURE REGULATOR AWAY — WHT 22 BLU 22 GRN 22 — V+ SIG COM

PUNCH 1 ASSY — PUNCH-M1 PUNCH MOTOR — PUNCH HOME SENSOR 1

PUNCH 2 ASSY — PUNCH-M2 PUNCH MOTOR — PUNCH HOME SENSOR 2

PUNCH 16 ASSY — PUNCH-M16 PUNCH MOTOR — PUNCH HOME SENSOR 16

220-01384A (OR 220-01385A)

J1 PUNCH1 MINIFIT 2X3 — J2 PUNCH2 MINIFIT 2X3 — J16 PUNCH16 MINIFIT 2X3

RED 22 24V MOTOR+ RED 22; BLK 22 SENSOR +5V BLK 22; WHT 22 SENSOR_SIG WHT 22; BRN 22 24V MOTOR- BRN 22; BLU 22 SENSOR GND BLU 22; GRN 22 MOTOR CHASSIS GRN 22

WHT/RED 22 24V+; RED 22 5V+; WHT 22 DSEN.C; WHT/BLK 22 24V RTN; BLK 22 DSEN.E; GRN 22 MTR CHASSIS

MINIFIT 2X3

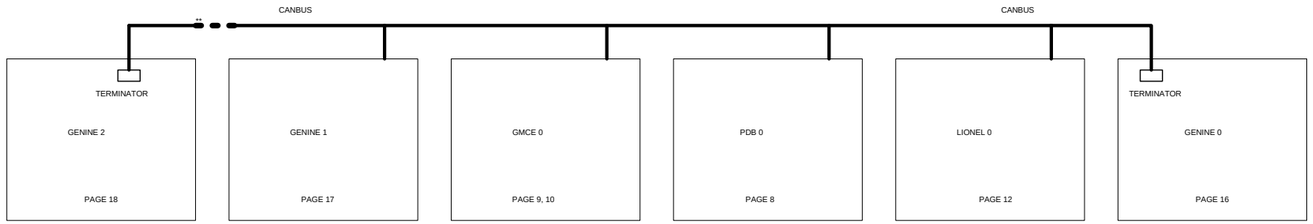
DESIGNED BY: C.RUECK	DOCUMENT NUMBER: 705-00006E-A SD01	LAST ECO:
DRAWN BY: C.RUECK	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2005:07:15	LAST MODIFIED DATE: 2007:09:05	SHEET: 29 of 29

MTA AUTOLOADER
DAPHNE 0 BOARD
WIRING DIAGRAM

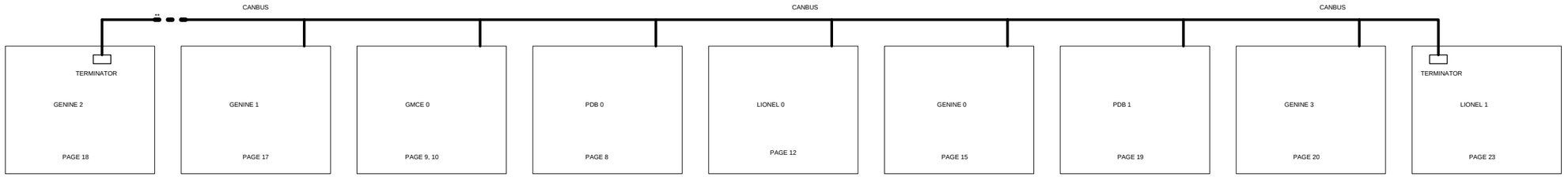
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MTA SERIES 3+ AUTOLOADER SATELLITE BOARD CONFIGURATIONS

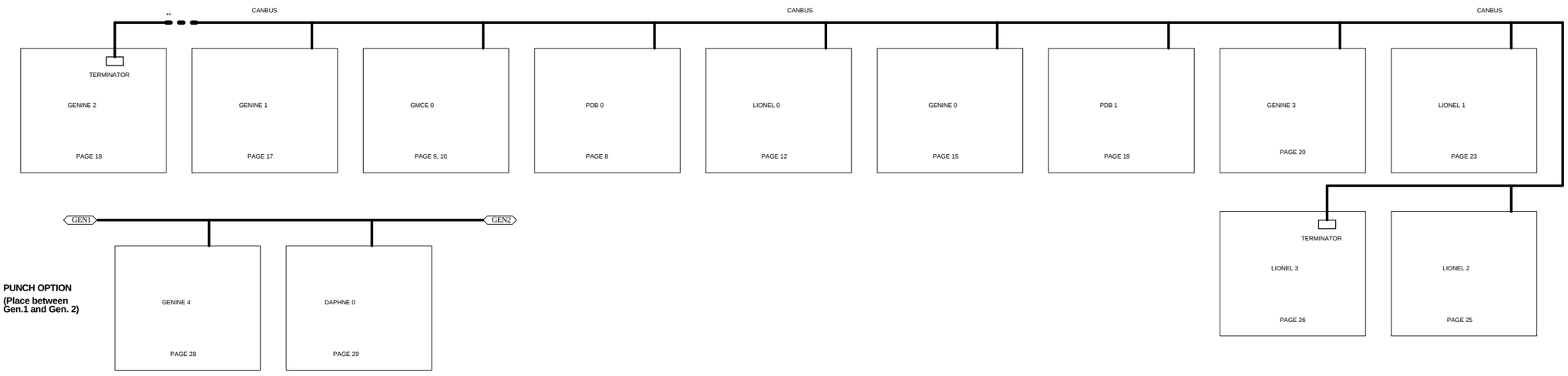
CL



MCU with WEDGE MASTER
(WM)



MCU with DM Picker
(DMPK)



**** PUNCH OPTION**
(Place between Gen.1 and Gen. 2)

MTA AUTOLOADER
AUTOLOADER CONFIGURATIONS

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DRAWN BY:	LAST REVISED BY:	APPROVED BY:
S.FOUDIMOV	K.CHENG	
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2005:12:08	2007:07:05	2 of 29