APL SYSTEM WIRING DIAGRAM

SERIES IV

SYSTEM BLOCK DIAGRAM
PAGE 2_SYSTEM BLOCK DIAGRAM

SYSTEM BLOCK DIAGRAM

SYSTEM BLOCK DIAGRAM CONTINUED
PAGE 3_SYSTEM BLOCK DIAGRAM CONTINUED

SYSTEM BLOCK DIAGRAM CONTINUED

SAFETY CIRCUIT
PAGE 4_SAFETY CIRCUIT

SAFETY DOOR LOOP
EMERGENCY STOP SWITCHES
MECHANICAL SAFETY INTERLOCK
SERVICE INTERLOCK OVERRIDE SWITCH
SERVO AND VAC BLOWER MOTOR

SAFETY CIRCUIT CONTINUED
PAGE 5_SAFETY CIRCUIT CONTINUED

SYSTEM BOARDS
SYSTEM STEPPING MOTORS
SYSTEM PNEUMATICS

PDB 2 WIRING
PAGE 6_PDB 2 WIRING

CANBUS
POWER BOX AC POWER
SAFETY DOOR LOOP
POWER SUPPLIES PS1, PS2, PS3, PS4, PS5
MECHANICAL SAFETY INTERLOCK

PDB 2 WIRING CONTINUED
PAGE 7_PDB 2 WIRING CONTINUED

SAFETY DOOR LOOP
APL INTERNAL LIGHTS

ESTOP WIRING
PAGE 8_ESTOP WIRING

EMERGENCY STOP SWITCHES

LIONEL 4 WIRING
PAGE 9_LIONEL 4 WIRING

APL USER INTERFACE
PALLET DETECT SENSORS
SHUTTER PNEUMATICS

GENINE 5 _TABLE
PAGE 10_GENINE 5_TABLE

PLATE TRANSFER TABLE I/O
PTM STEPPING MOTORS

PTM SERVO
PAGE 11_PTM SERVO

SERVO CONTROLLER/AMPLIFIER
SERVO MOTOR
SERVO ISOLATION BOARD

GENINE 6_PICKER-PUSHER GANTRY
PAGE 12_GENINE 6 PICKER-PUSHER GANTRY

Y-AXIS CONTROL
GANTRY I/O
FLOAT BAR CONTROL

GENINE 7_PICKER RIGHT
PAGE 13_GENINE 7_PICKER RIGHT

PLATE PICKER RIGHT TOWER I/O

GENINE 8_PICKER LEFT
PAGE 14_GENINE 8_PICKER LEFT

PLATE PICKER LEFT TOWER I/O

GENINE 9_PUSHER RIGHT
PAGE 15_GENINE 9 PUSHER RIGHT

PUSHER RIGHT TOWER I/O

GENINE 10_PUSHER LEFT
PAGE 16_GENINE 10_PUSHER LEFT

PUSHER LEFT TOWER I/O

GENINE 11_PUSHER HOOK MOTORS WIRING
PAGE 17_GENINE 11_PUSHER HOOK MOTORS

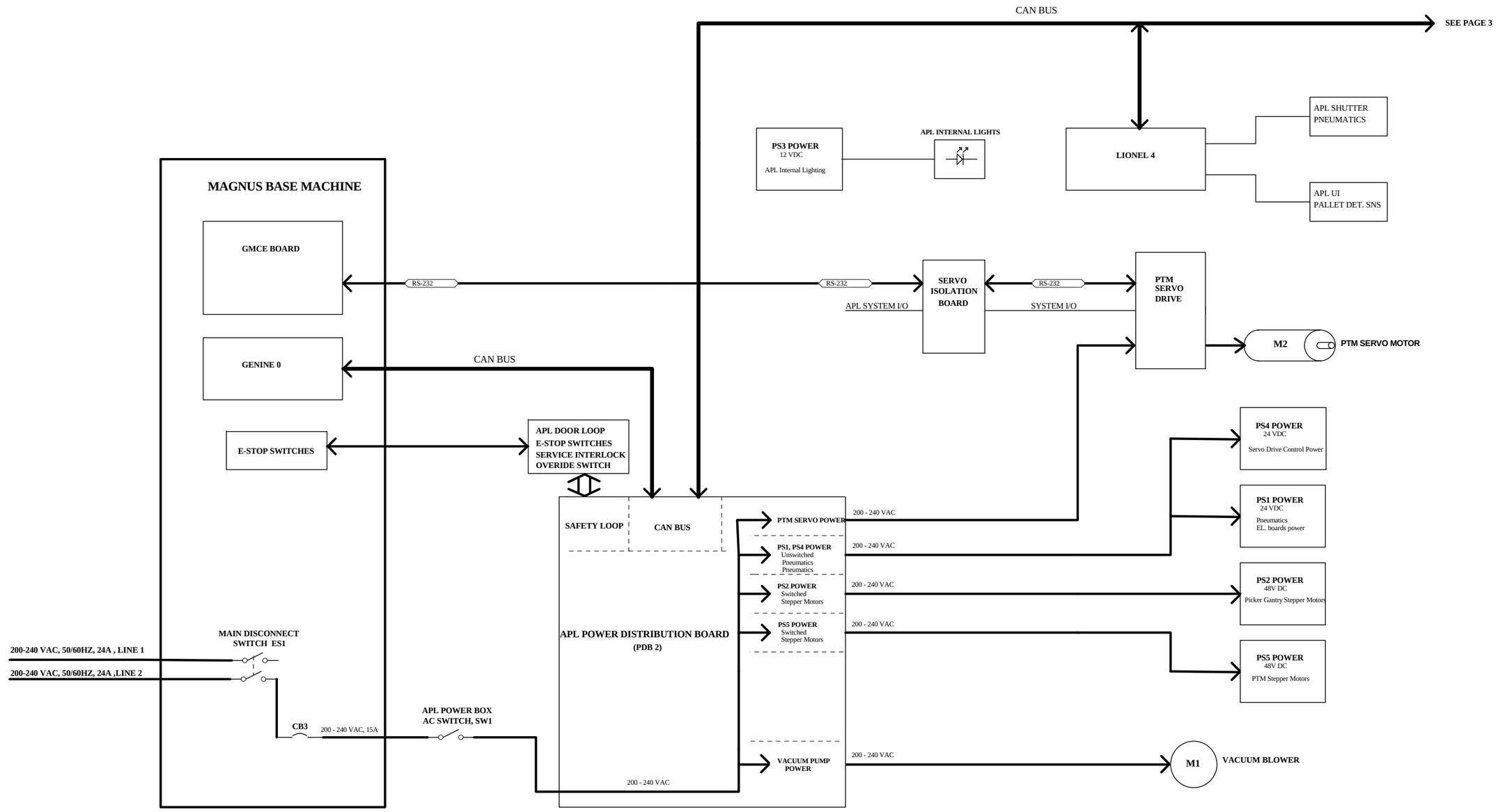
PUSHER PLATE HOOKS CONTROL
FLOAT BAR SENSORS

Kodak

APL
SYSTEM WIRING DIAGRAM

APL_EP.Sch

DESIGNED BY:	DOCUMENT NUMBER:	LAST ECO:
S. FOUDIMOV	**705-00011D-A SD01**	
DRAWN BY:	LAST REVISED BY:	APPROVED BY:
S.FOUDIMOV	K.CHENG	
DESIGN DATE:	LAST MODIFIED DATE:	SHEET:
2006:06:02	2008:01:02	1 of 17

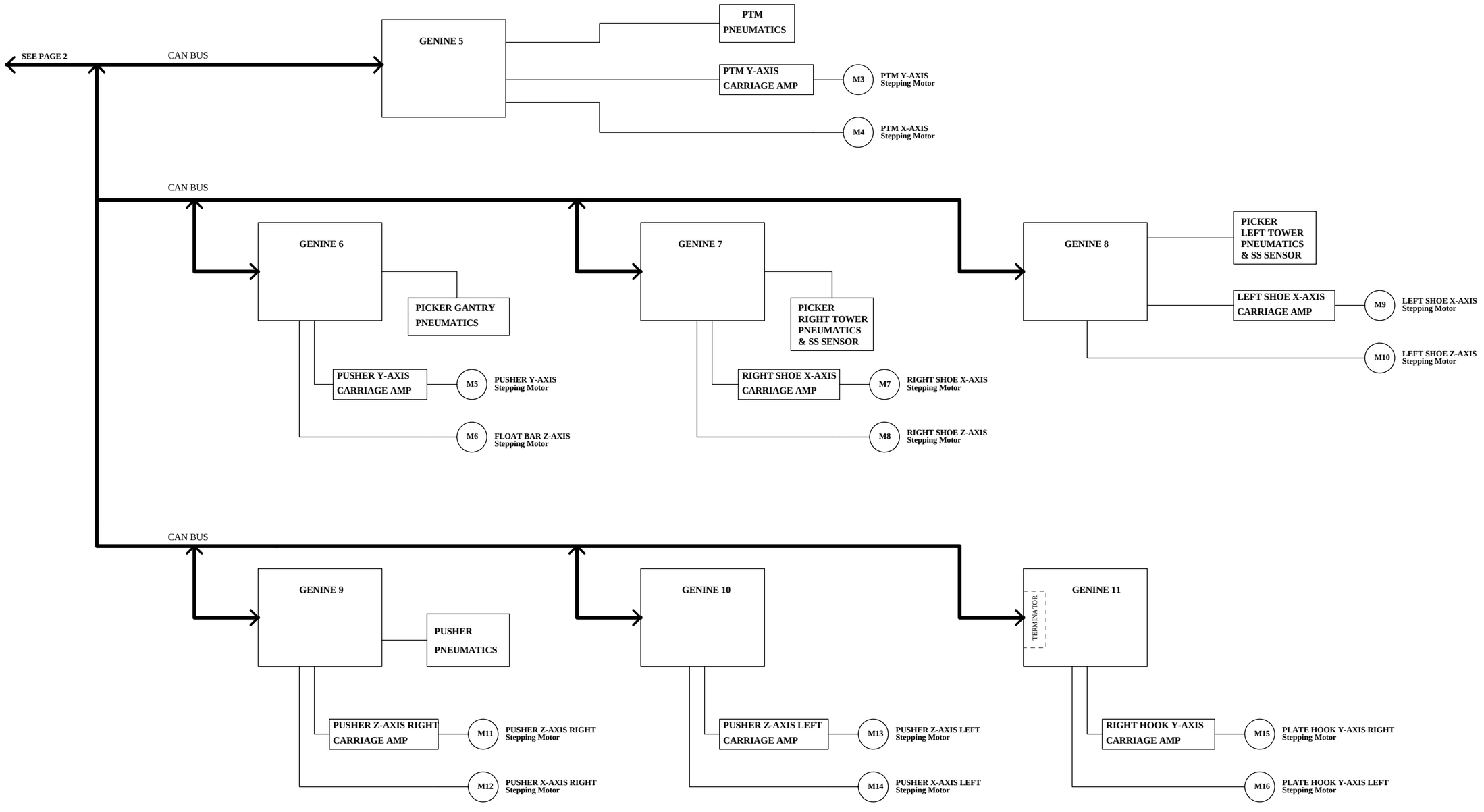


Kodak

APL
SYSTEM BLOCK DIAGRAM

PAGE 2_SYSTEM BLOCK DIAGRAM

DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: **705-00011D-A SD01**	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 2 of 17



Kodak

APL

SYSTEM BLOCK DIAGRAM CONTINUED

PAGE 3_SYSTEM BLOCK DIAGRAM CONTINUED

DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: **705-00011D-A SD01**	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 3 of 17

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.
   - Relay K15 is Solid State Type Crydom PFE240D25R 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. Switch Actuators are shown with the actuator inserted in the switch with the door & roof hatch closed. Applies to all doors & hatches.
3. All switches and contacts are shown with all doors closed and with the power off.
4. ⏚ Designates Signal Ground
5. L1 input is 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)

DOOR LOOP FRONT ACTUATORS

FOR 2 & 3- SEGMENT APL OPTION

FOR 3-SEGMENT APL OPTION

SHUTTER SW 1 SHUTTER SW 2

PDB2/24V Unlock

PDB2/COM

ZONE 1 FRONT UNLOCK SOLENOID

ZONE 2 FRONT UNLOCK SOLENOID

ZONE 3 FRONT UNLOCK SOLENOID

ZONE END FRONT UNLOCK SOLENOID

F7

F7/PDB 2

SSW 1 SSW 3 SSW 2 SSW 5 SSW 4 SSW 7 SSW 6

ROOF SW 1 ROOF SW 2

DOOR LOCK ACTUATOR

XSAFE_PDB_ESS

DOOR LOOP REAR ACTUATORS

FOR 2 & 3- SEGMENT APL OPTION

FOR 3-SEGMENT APL OPTION

ZONE 1 REAR UNLOCK SOLENOID

ZONE 2 REAR UNLOCK SOLENOID

ZONE 3 REAR UNLOCK SOLENOID

ZONE END REAR UNLOCK SOLENOID

SSW 8 SSW 10 SSW 9 SSW 12 SSW 11 SSW 14 SSW 13

ROOF SW 3 ROOF SW 4

DOOR LOCK ACTUATOR

XSAFE_OVER
XSAFE_MECH

SIO
(Service Interlock Override)
(Shown in normal position)

NORMAL
OVERIDE

SERVICE EMERGENCY STOP SW

ES5

SERVICE ESTOP CONNECTOR

XSAFE_WL

XSAFE_OVER

OVERRIDE MODE LEDS

LP1 LP2

ES1 (PULL) **ES2** **ES3** (PULL) **ES4**

MAGNUS BULKHEAD MOD#2

ESs

PDB 2

+24VDC

SAT_24V (PS1 - unswitched)

F8 **K14**

FW_SIG

LOOP.OFF

BLOWER AC MOTOR

M1

**See Note 5

K15

L1

VAC PUMP POWER

FW_SIG

VAC_PUMP_PWM

+24V

**See Note 5 K7 K4

L1

+24VDC

SWITCHED

WL_AC.SNS

XSAFE_WL

XSAFE_PS3.ON

FW_SIG

200-240VAC

PTM SERVO DRIVE

M2

PTM SERVO MOTOR

PS4 +24VDC 200W

200-240VAC

PTM DRIVE 24VDC POWER

+24V 24V RTN

RS-232

SYSTEM I/O

SERVO ISOLATION BOARD

To BASE MACHINE GMCE

RS-232

SYSTEM I/O

**See Note 5

L1

UNSWITCHED

PS1 +24VDC 200W

200-240VAC

SYSTEM LOGIC
(Pneumatics, Sensors, Relays)

SAT_+24V

SAT_24V RTN

**See Note 5 F6 K6 K9

L1

+24VDC

SWITCHED

RELAY_SS_AC.SNS

XSAFE_MECH

FW_SIG XSAFE_SPARE.ON

PS5 +48VDC 480W

200-240VAC

PTM STEP. MOTORS POWER

PTM_+48V SAFE

PTM_+48V SRTN

PTM 48V SAFE [5]

CAN BUS POWER [5]

**See Note 5 K5 K8

L1

+24VDC

SWITCHED

MECH_AC.SNS

XSAFE_MECH

FW_SIG XSAFE_PS2.ON

PS2 +48VDC 1200W

200-240VAC

STEPPING MOTORS POWER

SAT_+48V SAFE

SAT_+48V SRTN

SAT_+24V SAFE

K11 **K10**

XSAFE_MECH XSAFE_MECH

MECH_DC.SNS

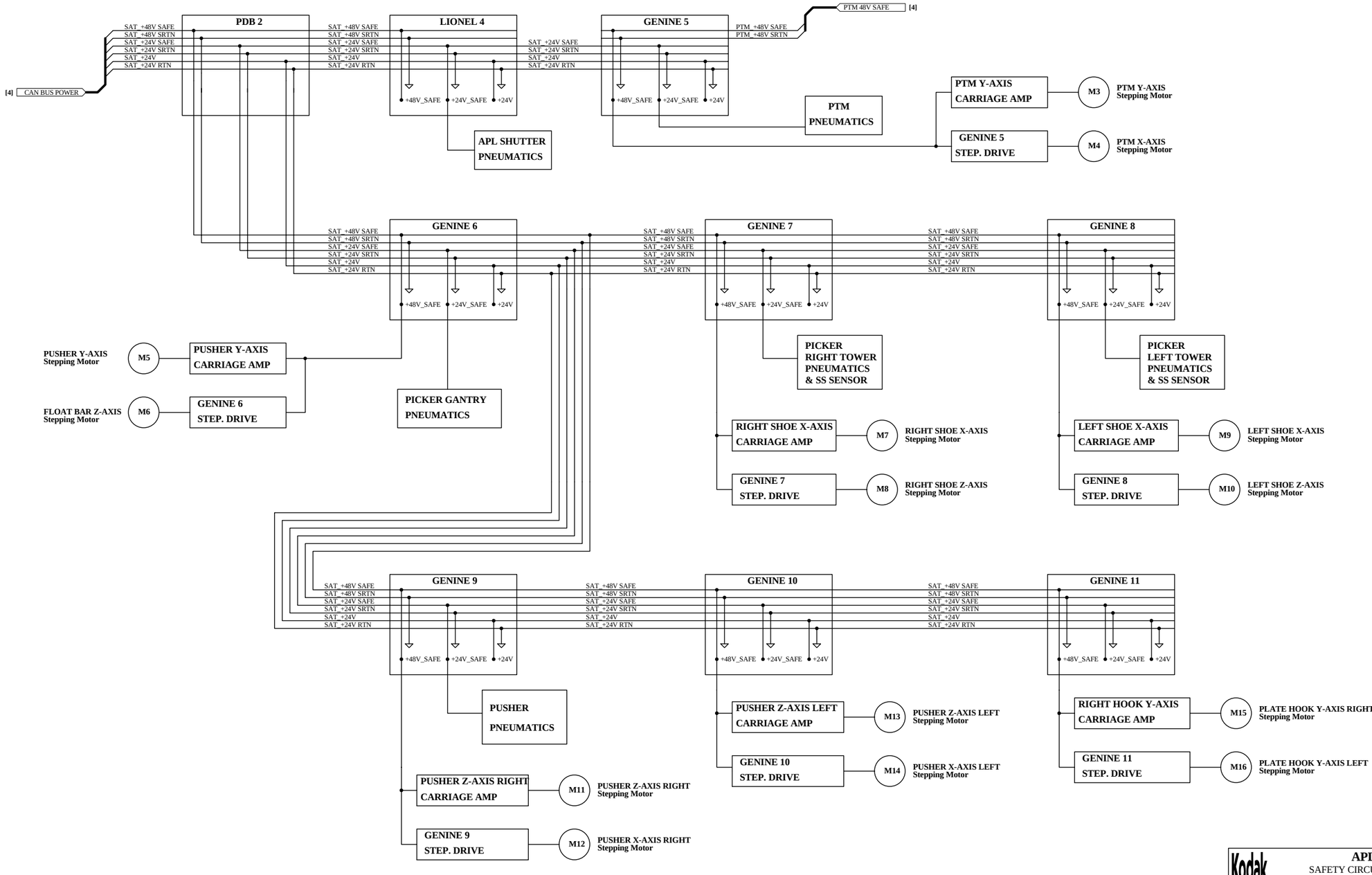
+24VDC

Kodak

APL
SAFETY CIRCUIT

PAGE 4_SAFETY CIRCUIT

DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00011D-A SD01	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 4 of 17



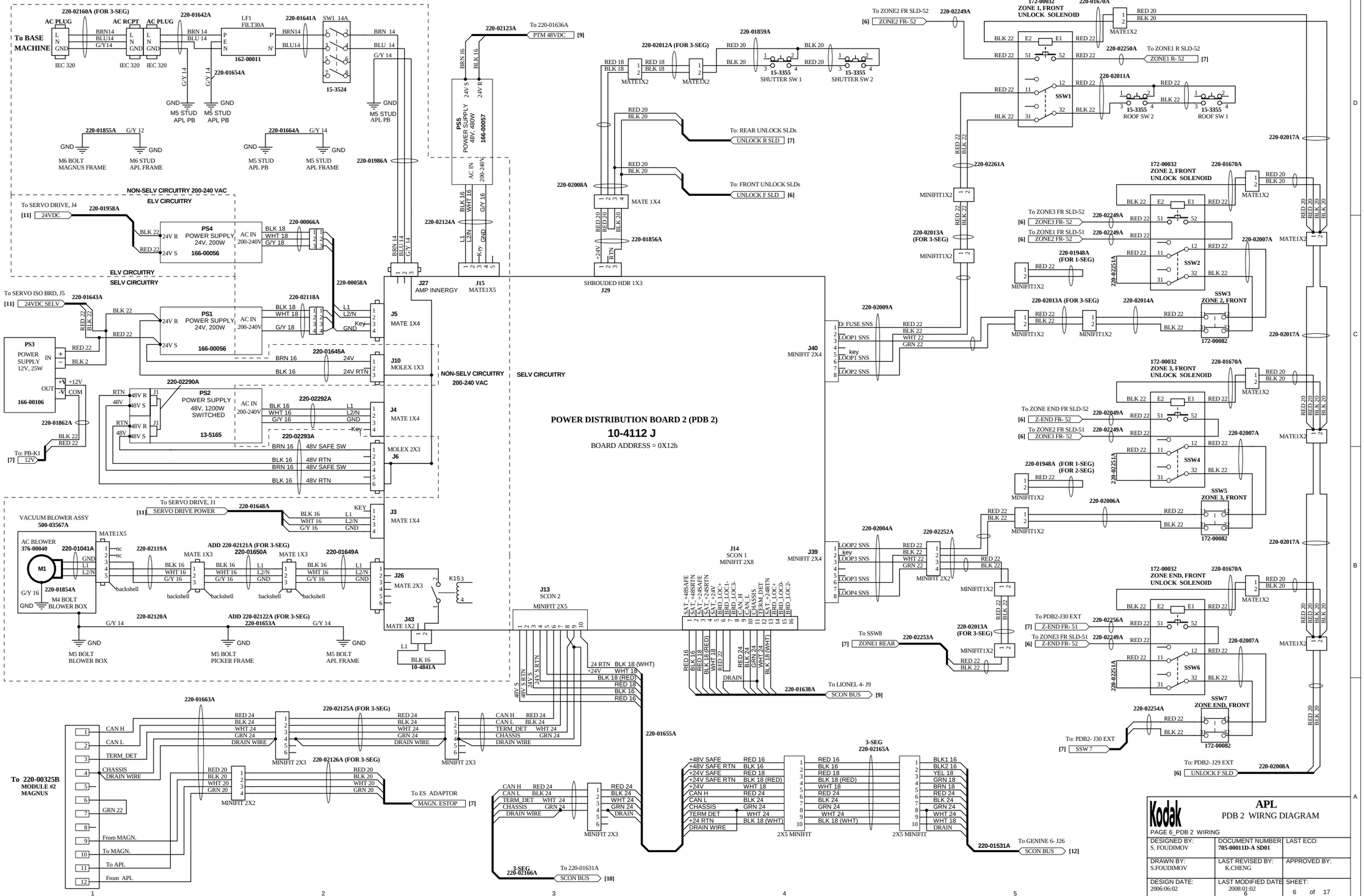
Kodak

APL

SAFETY CIRCUIT CONTINUED

PAGE 5_SAFETY CIRCUIT CONTINUED

DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: **705-00011D-A SD01**	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 5 of 17


220-02160A (FOR 3-SEG)
AC PLUG
AC RCPT
AC PLUG
To BASE MACHINE
IEC 320
220-01642A
220-01654A
LF1 FILT30A
162-00011
220-01641A
SW1 14A
15-3524
220-01855A
M6 BOLT MAGNUS FRAME
M6 STUD APL FRAME
220-01664A
M5 STUD APL PB
M5 STUD APL FRAME
220-01986A
220-02123A
To 220-01636A PTM 48VDC [9]
PS5 POWER SUPPLY 48V, 480W 166-00057
220-02124A
J27 AMP INNERGY
J15 MATE1X5
220-02012A (FOR 3-SEG)
220-01859A
15-3355 SHUTTER SW 1
15-3355 SHUTTER SW 2
To: REAR UNLOCK SLDs
UNLOCK R SLD [7]
To: FRONT UNLOCK SLDs
UNLOCK F SLD [6]
220-02008A
MATE 1X4
220-01856A
SHROUDED HDR 1X3
J29
NON-SELV CIRCUITRY 200-240 VAC
ELV CIRCUITRY
SELV CIRCUITRY
To SERVO DRIVE, J4
[11] 24VDC
220-01958A
PS4 POWER SUPPLY 24V, 200W 166-00056
220-00066A
220-00058A
To SERVO ISO BRD, J5
[11] 24VDC SELV
220-01643A
PS1 POWER SUPPLY 24V, 200W 166-00056
220-02118A
J5 MATE 1X4
PS3 POWER SUPPLY 12V, 25W
166-00106
220-01645A
J10 MOLEX 1X3
220-02290A
PS2 POWER SUPPLY 48V, 1200W SWITCHED
13-5165
220-02292A
J4 MATE 1X4
220-01862A
To: PB-K1 [7] 12V
220-02293A
MOLEX 2X3 J6
To SERVO DRIVE, J1
[11] SERVO DRIVE POWER
220-01648A
J3 MATE 1X4
VACUUM BLOWER ASSY 500-03567A
AC BLOWER 376-00040
220-01041A
M1
220-01854A
M4 BOLT BLOWER BOX
220-02119A
ADD 220-02121A (FOR 3-SEG)
220-01650A
220-01649A
J26 MATE 2X3
K153
J43 MATE 1X2
220-02120A
M5 BOLT BLOWER BOX
ADD 220-02122A (FOR 3-SEG)
220-01653A
M5 BOLT PICKER FRAME
M5 BOLT APL FRAME
10-4841A
POWER DISTRIBUTION BOARD 2 (PDB 2)
10-4112 J
BOARD ADDRESS = 0X12h
J13 SCON 2 MINIFIT 2X5
J14 SCON 1 MINIFIT 2X8
J39 MINIFIT 2X4
220-02004A
220-02252A
To LIONEL 4- J9
SCON BUS [9]
220-01638A
220-01655A
J40 MINIFIT 2X4
220-02009A
To ZONE2 FR SLD-52 [6] ZONE2 FR- 52
220-02249A
172-00032 ZONE 1, FRONT UNLOCK SOLENOID
220-01670A
MATE1X2
220-02250A
To ZONE1 R SLD-52 [7] ZONE1 R- 52
SSW1
220-02011A
15-3355 ROOF SW 2
15-3355 ROOF SW 1
220-02017A
220-02261A
MINIFIT1X2
220-02013A (FOR 3-SEG)
172-00032 ZONE 2, FRONT UNLOCK SOLENOID
To ZONE3 FR SLD-52 [6] ZONE3 FR- 52
To ZONE1 FR SLD-51 [6] ZONE2 FR- 52
220-02007A
220-01948A (FOR 1-SEG)
220-02251A
SSW2
220-02014A
SSW3 ZONE 2, FRONT
172-00082
172-00032 ZONE 3, FRONT UNLOCK SOLENOID
To ZONE END FR SLD-52 [6] Z-END FR- 52
To ZONE2 FR SLD-51 [6] ZONE3 FR- 52
220-01948A (FOR 1-SEG) (FOR 2-SEG)
220-02006A
SSW4
SSW5 ZONE 3, FRONT
172-00032 ZONE END, FRONT UNLOCK SOLENOID
To PDB2-J30 EXT [7] Z-END FR- 51
To ZONE3 FR SLD-51 [6] Z-END FR- 52
220-02256A
220-02253A
To SSW8 [7] ZONE1 REAR
SSW6
SSW7 ZONE END, FRONT
220-02254A
To: PDB2- J30 EXT [7] SSW 7
To: PDB2- J29 EXT [6] UNLOCK F SLD
220-02008A
220-01663A
220-02125A (FOR 3-SEG)
MINIFIT 2X3
220-02126A (FOR 3-SEG)
MINIFIT 2X2
To ES ADAPTOR MAGN. ESTOP [7]
To 220-00325B MODULE #2 MAGNUS
CAN H
CAN L
TERM_DET
CHASSIS
DRAIN WIRE
GRN 22
From MAGN.
To MAGN.
To APL
From APL
3-SEG 220-02165A
2X5 MINIFIT
220-01531A
To GENINE 6- J26 SCON BUS [12]
3-SEG 220-02166A
To 220-01631A SCON BUS [10]
Kodak
APL
PDB 2 WIRNG DIAGRAM
PAGE 6_PDB 2 WIRING
DESIGNED BY: S. FOUDIMOV
DOCUMENT NUMBER: 705-00011D-A SD01
LAST ECO:
DRAWN BY: S.FOUDIMOV
LAST REVISED BY: K.CHENG
APPROVED BY:
DESIGN DATE: 2006:06:02
LAST MODIFIED DATE: 2008:01:02
SHEET: 6 of 17

POWER DISTRIBUTION BOARD 2 (PDB 2)
(CONTINUED FROM PAGE 6)
10-4112 J
BOARD ADDRESS = 0X12h

OVERRIDE MODE LEDS
LP1 LP2
RED 22 BLK 22 RED 22 BLK 22
10-3721A
RED 22 BLK 22 WHT 22 GRN 22
220-01868A
J34 MLX 1X2 J35 MLX 1X2

SIO KEYSWITCH (2 POS) 15-3334
Contact Blocks:
DUAL NC 15-3067
DUAL NO 15-3238
NORMAL (Shown in normal position)
OVERIDE

SERVICE EMERGENCY STOP SW ES5 172-00089
SERVICE ESTOP CONNECTOR AMP 14
220-01878A 220-01879A
BLK 22 WHT 22 MINIFIT 1X2

220-01877A
RED 22 XSAFE_WL
BLK 22 XSAFE_OVER
GRN 22 XSAFE_ESS
KEY
WHT 22 XSAFE_MECH
J41 MINIFIT 2X4

RED 22 +24V
BLK 22 ES
J42 MINIFIT 1X3

220-02151A RED 20 BLK 20 WHT 20 GRN 20 MINIFIT 2X2
WHT 22 GRN 22 MINIFIT 1X2
220-02152A

To MAGNUS BULKHEAD [6] MAGN. ESTOP 220-02126A

To APL ES1 & ES2 [8] APL ES1,2 220-02153A
RED 22 BLK 22 WHT 22 GRN 22 MINIFIT 2X2
RED 22 YEL 22 RED 22 BLU 22

To APL ES3 & ES4 [8] APL ES3,4 220-02154A
RED 22 BLK 22 WHT 22 GRN 22 MINIFIT 2X2
YEL 22 WHT 22 BLU 22 GRN 22

J37 MINIFIT 2X8
BLK 22 RED 22
220-01864A To: PB- K1 LIGHTS ON [7]

J31 MINIFIT 2X4
LOOP4 SNS RED 22
LOOP4A SNS BLK 22
WHT 22
GRN 22
key
220-02259A

J30 MINIFIT 2X4
LOOP5 SNS RED 22
LOOP5A SNS ORG 22
key BLK 22
220-02255A
220-02254A MINIFIT 2X4
To: SSW 7 SSW 7 [6]
WHT 22 GRN 22
220-02256A MINIFIT 1X3
To ZONE END FR SLD-51 [6] Z-END FR- 51

172-00032 ZONE 1, REAR UNLOCK SOLENOID
220-01670A MATE1X2
To ZONE2 R SLD-52 [7] ZONE1 R- 51 220-02249A
BLK 22 E2 E1 RED 22
RED 22 51 52 RED 22
220-02250A To ZONE1 FR SLD-52 ZONE1 R- 52 [6]
220-02253A
RED 22 11 12 RED 22
SSW8
220-02251A
BLK 22 31 32 BLK 22
To SAFETY LOOP4 EXT ZONE1 REAR [6]

172-00032 ZONE 2, REAR UNLOCK SOLENOID
220-01670A MATE1X2
To ZONE3 R SLD-52 [7] ZONE3 R- 52 220-02249A
To ZONE1 R SLD-51 [7] ZONE1 R- 51 220-02249A
220-02007A MATE1X2
220-01948A (FOR 1-SEG)
MINIFIT1X2 RED 22
220-02013A (FOR 3-SEG)
220-02049A
SSW9
SSW10 ZONE 2, REAR
172-00082
220-02017A

172-00032 ZONE 3, REAR UNLOCK SOLENOID
220-01670A MATE1X2
To Z END R SLD-52 [7] Z-END R- 52 220-02249A
To ZONE2 R SLD-51 [7] ZONE3 R- 52 220-02249A
220-02007A MATE1X2
220-01948A (FOR 1-SEG) (FOR 2-SEG)
220-02050A
SSW11
SSW12 ZONE 3, REAR
172-00082
220-02017A

172-00032 ZONE END, REAR UNLOCK SOLENOID
220-01670A MATE1X2
To ZONE3 R SLD-51 [7] Z-END R- 52 220-02249A
220-02007A MATE1X2
SSW13
SSW14 ZONE END, REAR
172-00082
220-02017A

ROOF SW 3 15-3355
ROOF SW 4 15-3355
220-02254A

To: PS 3 [6] 12V 220-01862A
220-01863A COM +12V BLK 22 RED 22 MINIFIT 1X3
EMERG. LIGHTS ON [8]
RED 22 BLK 22
PB-K1 15-3359
To: PDB-J37 [7] LIGHTS ON 220-01864A
RED 22 BLK 22

220-02174A MINIFIT 1X3
220-02175A MINIFIT 1X3
220-01865A MINIFIT 1X3
220-01866A MINIFIT 1X3

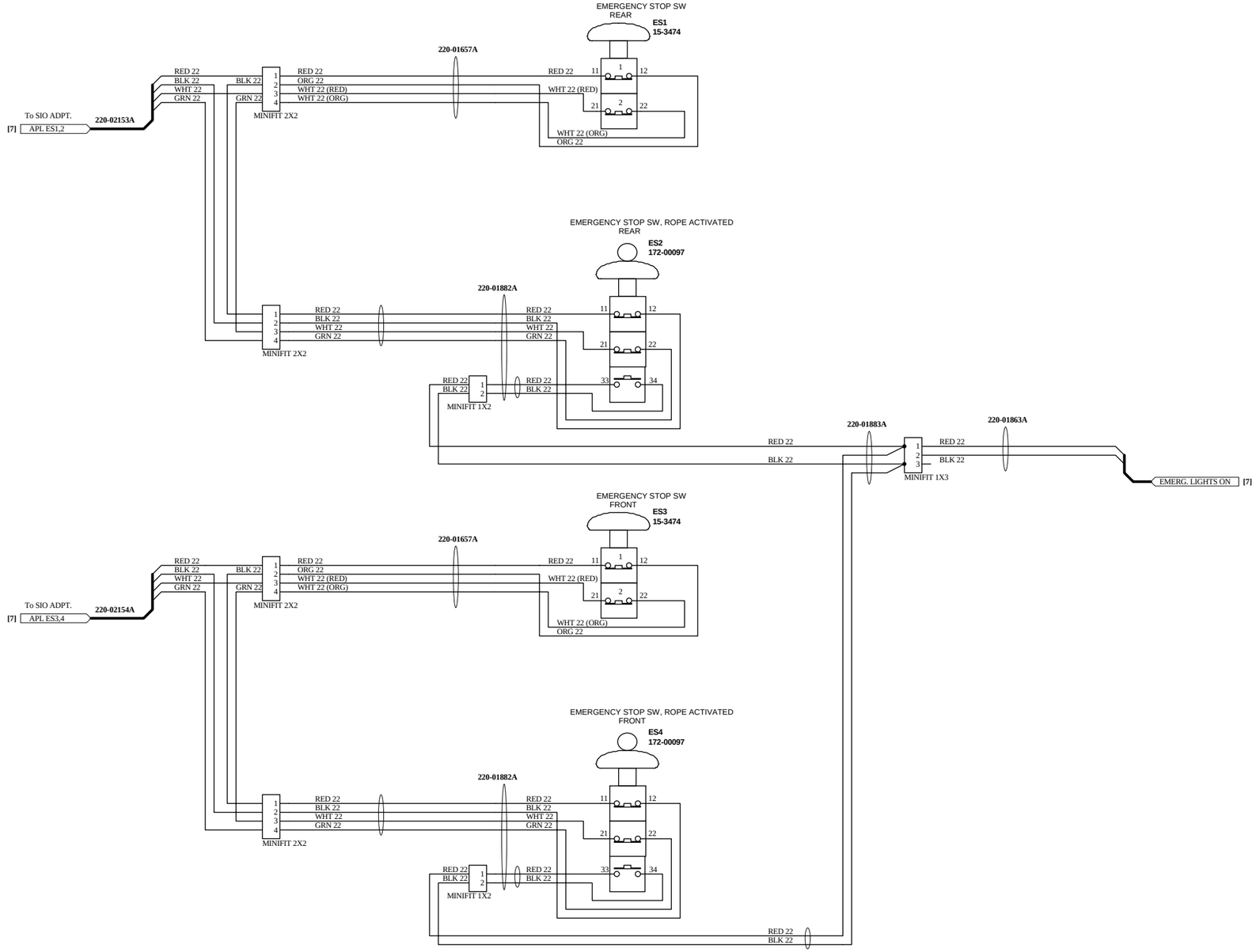
SEG3-2 LIGHT FRONT BAY- D1 134-00007 220-01867A
SEG3-1 LIGHT FRONT BAY- D2 134-00007 220-01867A
SEG2-2 LIGHT FRONT BAY- D1 134-00007 220-01867A
SEG2-1 LIGHT FRONT BAY- D2 134-00007 220-01867A
SEG1-2 LIGHT FRONT BAY- D3 134-00007 220-01867A
SEG1-1 LIGHT FRONT BAY- D4 134-00007 220-01867A
SEG3-2 LIGHT REAR BAY- D5 134-00007 220-01867A
SEG3-1 LIGHT REAR BAY- D6 134-00007 220-01867A
SEG2-2 LIGHT REAR BAY- D5 134-00007 220-01867A
SEG2-1 LIGHT REAR BAY- D6 134-00007 220-01867A
SEG1-2 LIGHT REAR BAY- D7 134-00007 220-01867A
SEG1-1 LIGHT REAR BAY- D8 134-00007 220-01867A
MINIFIT 1X2 RED 22 BLK 22 BLK 22 RED 22

To: PDB2- J29 EXT [6] UNLOCK R SLD 220-02008A

APL
PDB 2 WIRNG CONTINUED

PAGE 7_PDB 2 WIRING CONTINUED

DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00011D-A SD01	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 7 of 17



Kodak	**APL** EMERGENCY STOP WIRING	
PAGE 8_ESTOP WIRING		
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: **705-00011D-A SD01**	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 8 of 17

LIONEL BOARD 4
10-4801C
Board Address = 0x44h

To PDB2, J14 [6] SCON BUS — 220-01638A

+48V SAFE RED 16
+48V SAFE RTN BLK 16
+24V SAFE RED 18
+24V SAFE RTN BLK 18 (RED)
+24V WHT 18
CAN H RED 24
CAN L BLK 24
CHASSIS GRN 24
TERM DET WHT 24
+24 RTN BLK 18 (WHT)
DRAIN WIRE

J9 SCON2 — 2X5 MINIFIT JR

To LED BRD, J1 EXT [9] LED BRD PD

RED 22 TO DSEN 5 C (6)
BLK 22 TO DSEN 5 E (7)
WHT 22 TO DSEN 6 C (10)
GRN 22 TO DSEN 6 E (11)

BLK 22 TO DSEN 4 LED+ (1)
TO DSEN 4 LED- (4)
TO DSEN 4 C (2)
TO DSEN 4 E (3)

220-02267B

J7 DIG_IN2 — IDC,20PIN

LIGHT-SW1 SEG1 FRONT — 220-01709A — 172-00087
LIGHT-SW2 SEG 2(3) FRONT — 220-01709A — 172-00087
LIGHT-SW3 SEG1 REAR — 220-01709A — 172-00087
LIGHT-SW4 SEG 2(3) REAR — 220-01709A — 172-00087
3-SEG 220-02161A — MINIFIT 1X2 / MINIFIT 1X2
220-01710A — MINIFIT 2X4

DSEN 7C (2)
DSEN 7E (3)
BLK 22
RED 22
220-02267B

SHUTTER SENSOR 1 — 172-00088 — 220-01544A — BRN 24 / BLU 24
SHUTTER SENSOR 2 — 172-00088 — 220-01544A — BRN 24 / BLU 24
220-02350A — 220-02348A — 3-SEG 220-02349A — MINIFIT 1X2 / MINIFIT 2X2

J2 SOL_DRV1 — SAMTEC, 2X8

"shutter down" SV1 — 220-01871B — BLK 24 / RED 24
"shutter lock off" SV2 — 220-01871B — BLK 24 / RED 24
"shutter up" SV3 — 220-01871B — BLK 24 / RED 24
220-01870B — MINIFIT 2X3 / MINIFIT 2X3
3-SEG 220-02181B — 220-01869B — MINIFIT 2X3

BLK 22 RED 22 GRN 22 WHT 22 ORG 22 YEL 22
BLK 22 RED 22 GRN 22 WHT 22 ORG 22 YEL 22
BLK 22 RED 22 GRN 22 WHT 22 ORG 22 YEL 22
ACT 0 (1)
ACT 1 (3)
+24V (4)
ACT 2 (5)
+24V (6)

PALLET DETECT SEG 1-1 — 172-00110 — 220-02276A — RED 28 / WHT 28 / BLK 28 — MINIFIT 1X3 — 220-01874A
PALLET DETECT SEG 1-2 — 172-00110 — 220-02276A — 220-01875A
PALLET DETECT SEG 2-1 — 172-00110 — 220-02276A
PALLET DETECT SEG 2-2 — 172-00110 — 220-02276A — 220-02188A
PALLET DETECT SEG 3-1 — 172-00110 — 220-02276A — 220-02188A
PALLET DETECT SEG 3-2 — 172-00110 — 220-02276A — 220-02188A

RED 22 WHT 22 BLK 22
ORG 22 BRN 22 YEL 22
MINIFIT 2X3

220-02172A — 220-01873A — MINIFIT 2X7 — 3-SEG 220-02185A — MINIFIT 2X7

BLK 22 EREG,PD+ (J11/3)
EREG,PD- (J11/4)
RED 22 +24V (J11/1)
BLK 22 EREG,SEN0+ (J11/5)
WHT 22 EREG,SEN0- (J11/6)
ORG 22 EREG,SEN1+ (J11/7)
BRN 22 EREG,SEN1- (J11/8)
YEL 22 EREG,SEN2+ (J11/9)
BLU 22 EREG,SEN3+ (J11/11)
GRN 22 EREG,SEN3- (J11/12)

3-SEG 220-02189A — MINIFIT 2X3
RED 22 DSEN9.C (J8/2)
BLK 22 DSEN9.E (J8/3)
WHT 22 DSEN10.C (J8/6)
GRN 22 DSEN10.E (J8/7)

220-01544A
220-01544A

TABLE Z UNLOCK RIGHT

PTP Y UNLOCK

J13 SCON 1 — MINIFIT 2X8 CAN

SAT_+48SAFE
SAT_+48SRTN
SAT_+24SAFE RED 18
SAT_+24SRTN BLK 18 (RED)
SAT_+24V WHT 18
BRD_LOC+
BRD_LOC1-
BRD_LOC3-
CAN_H RED 24
CAN_L BLK 24
CHASSIS GRN 24
TERM_DET WHT 24
SAT_+24RTN BLK 18 (WHT)
BRD_LOC+ RED 22
BRD_LOC0-
BRD_LOC2- DRAIN WIRE

MATE1X2 — 220-02123A — To PS5, 48VDC PTM 48VDC [6]
RED 16 BRN 16
BLK 16 BLK 16

220-01636A

3-SEG 220-02167A — MINIFIT 2X5 / MINIFIT 2X5

RED 16 RED 16 BLK1 16
BLK 16 BLK 16 BLK2 16
RED 18 RED 18 YEL 18
BLK 18 (RED) BLK 18 (RED) GRN 18
WHT 18 WHT 18 BRN 18
RED 24 RED 24 RED 24
BLK 24 BLK 24 BLK 24
GRN 24 GRN 24 GRN 24
WHT 24 WHT 24 WHT 24
BLK 18 (WHT) BLK 18 (WHT) WHT 18
DRAIN WIRE DRAIN WIRE DRAIN WIRE

220-01630A — To GENINE 5, J26 SCON BUS [10]

J3 1 WIRE — MINIFIT 1X2
1 WIRE GRN 22
GND BLK 22
220-01637A
RED 22 RED 22
BLK 22 BLK 22
MINIFIT 1X3
220-01959A — To SERVO ISO BRD, J1 SERVO EN [11]

J5 PWM_OUT1 — MINIFIT 2X3 REC
PD PWM0+ BLK 22
PWM0- RED 22
PD PWM0-

220-02272A — To SEG2(3) LED BRD, J1 EXT SEG 2(3) UI PD [9]
RED 22 ORG 22
BLK 22 BLU 22
WHT 22 ORG 22
GRN 22 BLU 22
MINIFIT 1X3

To LIONEL 4, J7 [9] LED BRD PD — 220-02267A

220-02268A

J1 PWM_OUT2 — MINIFIT 2X4
+24V
+24V
PWM4-
PD PWM1+ BLK 22
PWM2-
PWM3-
PWM5-
PD PWM1-

RED 22 GRN 22 BLK 22 WHT 22 GRN 22
MINIFIT 2X2

J8 DIGITAL-IN3 — 2X15 HDR

220-02273A — MINIFIT 2X4

J11 DIG_IN1 — IDC, 14PIN

220-02269A — 3-SEG 220-02270A — 220-02271A — J1 STATUS LIGHT LEDS BRD 10-9063A
RED 22 BLK 22 WHT 22 GRN 22 ORG 22 BLU 22
+24V GRN LED
WHT 22 BLU LED
GRN 22 YEL LED
ORG 22 PD+
BLU 22 PD-

SEG 1 UI, FRONT ROOF PANEL

SEG END UI, FRONT ROOF PANEL

220-02272A — 220-02271A — J1 STATUS LIGHT LEDS BRD 10-9063A

To LIONEL 4, J7 EXT [9] SEG 2(3) UI PD

SEG 1, FRONT WHITE LED
SEG 2(3), FRONT WHITE LED
SEG 1, REAR WHITE LED
SEG 2(3), REAR WHITE LED

3 SEG 220-02274A — 220-02275A — 220-01963A — WHITE LED 132-00050 — D1
RED 22 BLK 22
RED 24 BLK 24
MINIFIT 1X2

Kodak
APL
LIONEL 4 WIRING

PAGE 9_LIONEL 4 WIRING

DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00011D-A SD01	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 9 of 17

GENINE BOARD 5

10-4227E

BOARD ADDRESS = 0X35h

TABLE UP — 36-3125 — 10-4733A — RED 22 / BLK 22 / WHT 22 / GRN 22 — TO DSEN 9 LED+ J2/1; TO DSEN 9 LED- J2/4; TO DSEN 9 C J2/2; TO DSEN 9 E J2/3

TABLE TRANSITION HEIGHT — 36-3125 — 10-4733A — RED 22 / BLK 22 / WHT 22 / GRN 22 — TO DSEN 10 LED+ J2/5; TO DSEN 10 LED - J2/8; TO DSEN 10 C J2/6; TO DSEN 10 E J2/7

TABLE TRANSITION STOP — 36-3125 — 10-4733A — ORG 22 / BRN 22 / BLU 22 / YEL 22 — TO DSEN 11 LED+ J2/9; TO DSEN 11 LED - J2/12; TO DSEN 11 C J2/10; TO DSEN 11 E J2/11

220-02452A — 2X15 HDR DIGITAL-IN3 — J2

LIONEL 4, J13 ADAPT. [9] SCON BUS — 220-01630A — BLK1 16 / BLK2 16 / YEL 18 / GRN 18 / BRN 18 / RED 22 / DRAIN / RED 24 / BLK 24 / WHT 24 / WHT 18 / RED 22 — SAT -48SAFE / SAT -48SKTN / SAT +24SAFE / SAT +24SKTN / SAT -24V / BRD_LOC1- / BRD_LOC2- / BRD_LOC3- / CAN_H / CAN_L / CHASSIS / TERM_DET / SAT +24RTN / BRD_LOC4+ / BRD_LOC3+ / BRD_LOC2+ — J26 MINIFIT 2X8 CAN SCON1

220-01631A — DRAIN / RED 24 / BLK 24 / WHT 24 / CAN H RED 24 / CAN L BLK 24 / TERM_DET WHT 24 / CHASSIS GRN 24 / DRAIN WIRE — MINIFIT 2X3 — RED 24 / BLK 24 / WHT 24 / GRN 24 / DRAIN — 3-SEG 220-02166A — To 220-01655A SCON BUS [6]

SAT -48SAFE / SAT -48SKTN / SAT +24SAFE / SAT +24SKTN / SAT -24V / CAN_H / CAN_L / CHASSIS / TERM_DET / SAT +24RTN — J24 MINIFIT 2X5 CAN SCON2

TABLE Z-AXIS HOME SENSOR — 36-3125 — 10-4733A — RED 22 / BLK 24 / WHT 24 / GRN 24 — TO HOME.1 LED+ J20/1; TO HOME.1 LED- J20/4; TO HOME.1 C J20/2; TO HOME1. E J20/3

220-01629B — J20 2X6 HDR HA-1 — PD+ BLK 22 (10); PD- (11)

TABLE Z-AXIS AWAY SENSOR — 36-3125 — 10-4733A — RED-BLK 24 / BLU 24 / WHT-BLK 24 / GRN-BLK 24 — TO AWAY.1 LED+ J20/5; TO AWAY.1 LED- J20/8; TO AWAY.1 C J20/6; TO AWAY.1 E J10/7

220-01628A — J14 2X6 HDR HA-0 — PD+ BLK 22 (10); PD- (12)

TABLE Y-AXIS HOME — 36-3125 — 10-4733A — RED 24 / BLK 24 / BRN 24 / ORG 24 — TO HOME.0 LED+ (1); TO HOME.0 LED- (4); TO HOME.0 C (2); TO HOME0. E (3)

220-01627A — J17 2X10 HDR — STPR-CNTL

TABLE Y-AXIS AWAY — 36-3125 — 10-4733A — RED 24 / BLK 24 / BRN 24 / ORG 24 — TO AWAY.0 LED+ (5); TO AWAY.0 LED- (8); TO AWAY.0 C (6); TO AWAY0. E (7)

TABLE Y-AXIS MOTOR 11-0851B — M 3 — BLK 18 (RED PR) / BLK 18 (WHT PR) / RED 18 / WHT 18 — MATE 2X3 — 220-01626A — PHA:VO+ / PHB:VO- / PHA:VO- / PHB:VO+ / SHIELD / YEL 18 — Gain 2 A/V — J3 MINIFIT 2X4

J2 IDC, 20PIN — 503-00265A CARRIAGE DRIVE — J1 MATE 1X2 — RED 18 / BLK 18 / BLK 18 — 220-02001A — +48V SAFE / RTN / PD / BLK 22

J27 STEPPER POWER — MINIFIT 2X3

C1 1000UF / C2 1000UF / C3 1000UF

2X10 HDR DIGITAL-IN2 — J4 — 220-01624A

2X17 HDR DIGITAL-IN4 — J5 — 220-01622A

J21 — 220-01726A — SOL-DRV 1 — 2X13 HDR

MANIFOLD INTERFACE BOARD 10-4727A — J1 — J2 — 220-01727A — ACT8+ BLK 24 / +24V RED 24 / ACT9+ BLK 24 / +24V RED 24 / ACT10+ BLK 24 / +24V RED 24 / ACT11+ BLK 24 / +24V RED 24 / ACT12+ BLK 24 / +24V RED 24 / ACT13+ BLK 24 / +24V RED 24 — CON12

PLATE TRANSFER MODULE MANIFOLD

- SV1 "z cylinder up"
- SV2 "z cylinder dn"
- SV3 "shifter extend fast"
- SV4 "shifter retract fast"
- SV5 "shifter extend slow"
- SV6 "table Y unlock"
- SV7 "table Z unlock 1"
- SV8 "plate exit door open "
- SV9 "plate exit door close"
- SV10 "table Z unlock 2"
- SV11 "shifter release on"
- SV12 "spare 1"

J3 — 220-01728A — ACT14+ BLK 24 / +24V RED 24 / ACT15+ BLK 24 / +24V RED 24 / ACT16+ BLK 24 / +24V RED 24 / ACT17+ BLK 24 / +24V RED 24 / ACT18+ BLK 24 / +24V RED 24 / ACT19+ BLK 24 / +24V RED 24 — CON12

J25 UMNL 2X4 — STPR-DRIVE — PHA+ BRN 22 / PHB- GRN 22 / PD+ GRN 22 / PHA- WHT 22 / PHB+ YEL 22 / Chassis Shield / PD-

220-01621A — MINIFIT 2X2 — PHA+ BLK / PHA- GRN / PHB- BLU / PHB+ RED

TABLE Z-AXIS MOTOR 500-00717A — M 4

Y-AXIS SAFE HOME — 10-4982A — 36-3125 — RED 22 / BLK 22 / WHT 22 / GRN 22 — TO DSEN 4 LED+ (1); TO DSEN 4 LED- (4); TO DSEN 4 C (2); TO DSEN 4 E (3)

PLATE SHIFTER HOME — 36-3125 — 10-4733A — RED 22 / BLK 22 / WHT 22 / GRN 22 — WHT 22 (RED PAIR) / ORG 22 / WHT 22 (ORG PAIR)

220-01623A — MINIFIT 2X6 — RED 24 TO DSEN16 LED+ (1); BLK 24 TO DSEN16 LED- (4); WHT 24 TO DSEN16 C (2); GRN 24 TO DSEN16 E (3); RED-WHT 24 TO DSEN17 LED+ (5); BLK-WHT 24 TO DSEN17 LED- (8); BLU-BLK 24 TO DSEN17 C (6); GRN-WHT 24 TO DSEN17 E (7); RED-BLK 24 TO DSEN18 LED+ (9); BLU 24 TO DSEN18 LED- (12); WHT-BLK 24 TO DSEN18 C (10); GRN-BLK 24 TO DSEN18 E (11)

PLATE EXIT CLOSED — 36-3125 — 10-4982A — RED 22 / BLK 22 / WHT 22 / GRN 22 — RED 24 / BLK 24 / WHT 24 / GRN 24

PLATE TRANSITION — 36-3210 — 220-02163A — RED 22 / WHT 22 / GRN 22 — ORG 24 / BLU 24 / YEL 24 — MINIFIT 2X2

(25) TO DSEN22 LED+ RED 24; (28) TO DSEN22 LED- BLK 24; (26) TO DSEN22 C RED-WHT 24; (27) TO DSEN22 E BLK-WHT 24 — 220-02164A — MINIFIT 2X2 — RED 22 / WHT 22 / ORG 22 / WHT 22 — 10-4982A — RED 22 / BLK 22 / WHT 22 / GRN 22 — LED+ / LED- / COLLECTOR / EMITTER — 36-3125 — TABLE DOWN

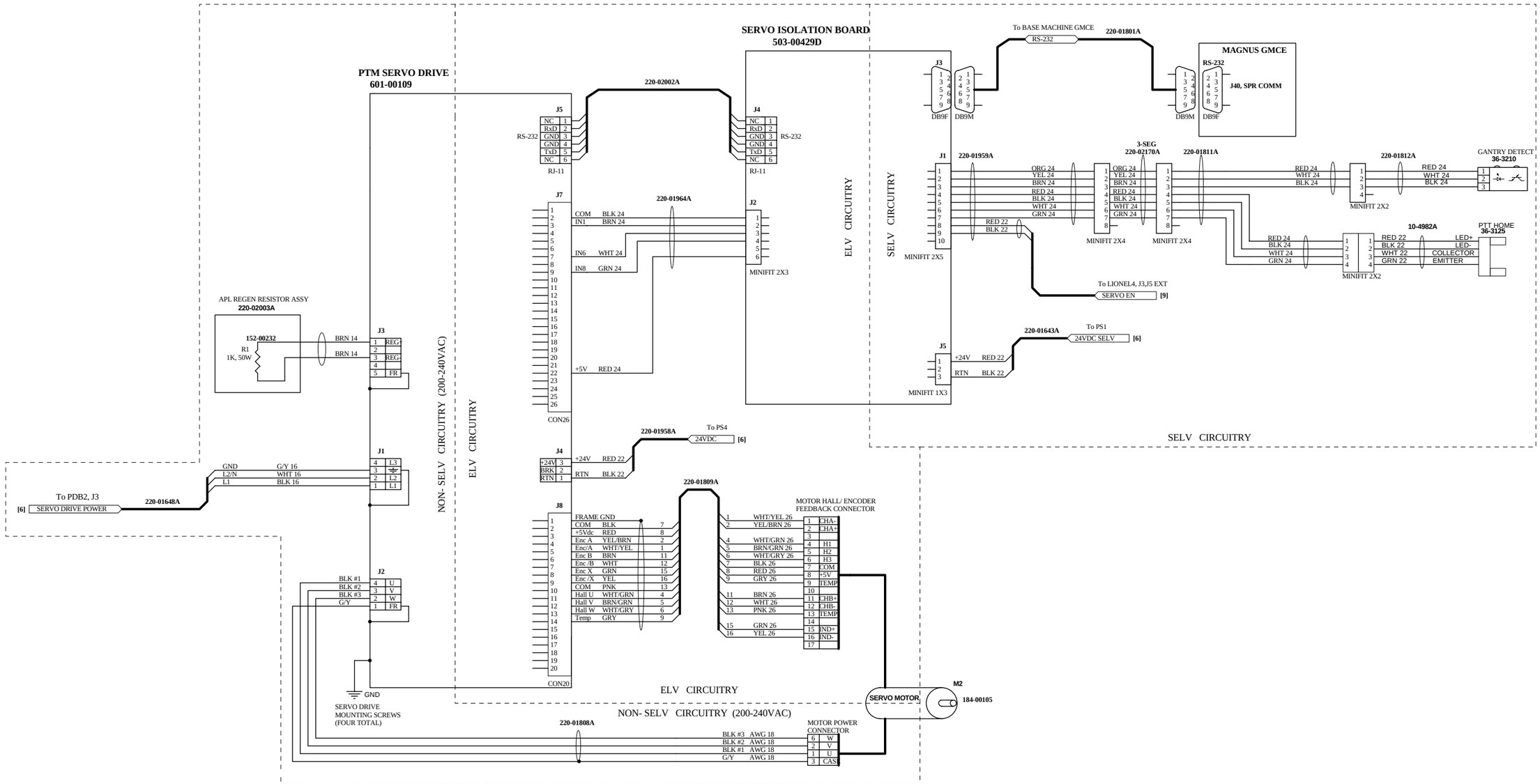
PTP-RSW2 172-00088 — 220-01544A — TABLE Z UNLOCK LEFT — BRN 24 / BLU 24 — WHT 24 TO DSEN19 C (14); GRN 24 TO DSEN19 E (15) — MINIFIT 1X2

PTP-RSW3 172-00088 — 220-01544A — TABLE Z UNLOCK RIGHT — BRN 24 / BLU 24 — 220-01724A (FOR LEFT EJECT ONLY) — RED 22 / BLK 22 — BLU-BLK 24 TO DSEN20 C (18); GRN-WHT 24 TO DSEN20 E (19) — MINIFIT 1X2

PTP-RSW1 172-00088 — 220-01544A — PTP Y UNLOCK — BRN 24 / BLU 24 — 220-01725A (FOR LEFT EJECT ONLY) — RED 22 / BLK 22 — WHT-BLK 24 TO DSEN21 C (22); GRN-BLK 24 TO DSEN21 E (23) — MINIFIT 1X2

220-02220A — G/Y 14 — GND — GND — M5 STUD PTM GANTRY — M5 STUD APL FRAME

Kodak	APL	
	GENINE 5 WIRING	
PAGE 10_GENINE 5_TABLE		
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00011D-A SD01	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 10 of 17



Kodak	**APL**
PAGE 11_PTM SERVO	PTM SERVO
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: **705-00011D-A SD01**
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:04:02
LAST ECO:	APPROVED BY:
SHEET: 11 of 17	

GENINE BOARD 6

10-4227E

BOARD ADDRESS = 0X36h

APL

GENINE 6 WIRING

PAGE 12_GENINE 6 PICKER-PUSHER GANTRY

DESIGNED BY:	DOCUMENT NUMBER:	LAST ECO:
S. FOUDIMOV	705-00011D-A SD01	
DRAWN BY:	LAST REVISED BY:	APPROVED BY:
S.FOUDIMOV	K.CHENG	
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 12 of 17

GENINE BOARD 7

10-4227E

BOARD ADDRESS = 0X37h

J3 ANALOG0

MTA 1X6

+24V, SIG, GND, PD+, PD-

J2 IDC, 20PIN

503-00265A CARRIAGE DRIVE

J1

MATE 1X2

+48V SAFE, RTN

J3

MINIFIT 2X4

J20 2X6 HDR HA-1

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

J14 2X6 HDR HA-0

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

J17 STPR-CNTL 2X10 HDR

J27 STEPPER POWER MINIFIT 2X3

PD, BLK22

J5 2X17 HDR DIGITAL-IN4

J4 2X10 HDR DIGITAL-IN2

J10 IDC, 14PIN DIG_IN1

J1 AN_1 1X6 MTA

4-20mA Out, GND, PD+, PD-, YEL 22

J26 MINIFIT 2X8 CAN SCON1

J24 MINIFIT 2X5 CAN SCON2

J25 UMNL 2X4 STPR-DRIVE

PHA+ BRN 22
PHB- GRN 22
PD+ GRN 22
PHA- WHT 22
PHB+ YEL 22
Chassis Shield
PD- GRN 22

J18 SOL_DRV0 SAMTEC, 2X8

J21 SOL-DRV 1 2X13 HDR

To GENINE 6, J24 EXT [9] SCON BUS — 220-01797A

BLK1 18, BLK2 18, YEL 20, GRN 20, BRN 20, RED 24, BLK 24, GRN 24, WHT 24, WHT 20, DRAIN

2X5 MINIFIT

220-01819A

SAT +48SAFE, SAT +48SRTN, SAT +24SAFE, SAT +24SRTN, CAN H, BRD_LOC+, BRD_LOC1-, BRD_LOC3-, CAN H, CAN L, CHASSIS, TERM_DET, SAT +24RTN, BRD_LOC4+, BRD_LOC0-, BRD_LOC2-

220-01817A

To GENINE 8, J26 SCON BUS [14]

RIGHT TOWER LC2

LOAD CELL 170-00078 — RED 28, GRN 28, YEL 28, BLU 28

220-01822A — MICROFIT 1X4 — 220-01821A — RED 22, GRY 22, YEL 22, BLU 22

RIGHT TOWER LCA 2

LOAD CELL AMP 601-00073

220-01820A — +24V, GND, 0-5VDC OUT — RED 22, ORG 22, WHT 22 (RED)

YEL 24

RIGHT SHOE Z-AXIS HOME SENSOR — 36-3125 — 10-4982A — LED+, LED-, COLLECTOR, EMITTER — RED 22, BLK 22, WHT 22, GRN 22 — 220-01823A — TO HOME.1 LED+ (1), TO HOME.1 LED- (4), TO HOME.1 C (2), TO HOME1. E (3)

RIGHT SHOE Z-AXIS AWAY SENSOR — 36-3125 — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — ORG 22, BRN 22, BLU 22, YEL 22 — TO AWAY.1 LED+ (5), TO AWAY.1 LED- (8), TO AWAY.1 C (6), TO AWAY.1 E (7)

RIGHT SHOE X-AXIS HOME SENSOR — 36-3125 — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — 220-01824A — TO HOME.0 LED+ (1), TO HOME.0 LED- (4), TO HOME.0 C (2), TO HOME0. E (3)

RIGHT SHOE X-AXIS AWAY SENSOR — 36-3125 — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — 220-01825A — TO AWAY.0 LED+ (5), TO AWAY.0 LED- (8), TO AWAY.0 C (6), TO AWAY.0 E (7)

RIGHT SHOE X-AXIS MOTOR 500-00717A — M 7 — PHA+ BLK, PHA- GRN, PHB- BLU, PHB+ RED — MINIFIT 2X2 — 220-01827A — PHA+ BRN 22, PHB- GRN 22, PHA- WHT 22, PHB+ YEL 22, SHIELD — Gain 2 A/V — YEL 22

220-01826A — +48V SAFE BRN 16, RTN BLK 16

RIGHT SHOE EXTEND — 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 DSEN16 LED+ (1), TO DSEN16 LED- (4), TO DSEN16 C (2), TO DSEN16 E (3)

RIGHT SHOE RETRACT — 36-3125 — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — RED-WHT 24, BLK-WHT 24, BLU-BLK 24, GRN-WHT 24 — TO DSEN17 LED+ (5), TO DSEN17 LED- (8), TO DSEN17 C (6), TO DSEN17 E (7)

RIGHT PCUP UP — 36-3125 — 10-4982A — LED+, LED-, COLLECTOR, EMITTER — RED 22, BLK 22, WHT 22, GRN 22 — RED-BLK 24, BLU 24, WHT-BLK 24, GRN-BLK 24 — TO DSEN18 LED+ (9), TO DSEN18 LED- (12), TO DSEN18 C (10), TO DSEN18 E (11)

PD — RED 24 (4), RED 24 (8), RED 24 (12), RED 24 (17)

RIGHT PLATE LOCATION 2 — 36-3222 — GRN 24, RED-WHT 24, BLK-WHT 24 — TO DSEN5 LED+ (5), TO DSEN5 C (6), TO DSEN5 E (7), TO DSEN6 LED+ (9), TO DSEN6 C (10), TO DSEN6 E (11)

RIGHT PLATE LOCATION 3 — 36-3222 — ORG 24, BLU-BLK 24, GRN-WHT 24

RIGHT PCUP DOWN — 36-3125 — 10-4982A — LED+, LED-, COLLECTOR, EMITTER — RED 22, BLK 22, WHT 22, GRN 22 — RED-BLK 24, BLU 24, WHT-BLK 24, GRN-BLK 24 — TO DSEN7 LED+ (13), TO DSEN 7 LED- (16), TO DSEN 7 C (14), TO DSEN7 E (15)

PICKER CRASH RIGHT — 15-3355 — RED 22, BLK 22 — 220-01830A — MINIFIT 1X2 — 220-01832A — MINIFIT 1X2 — 220-01834A — RED 22, WHT 22 (RED); ORG 22, WHT 22 (ORG) — To PICKER CRASH SNS PK CRASH [12]

To PICKER LEFT CRASH SEN [14] CRASH LEFT — 220-01834A

RIGHT Y-AXIS BELT LOCK — RSW1 — 220-01544A — RED 24, BLK 24 — RED 22, WHT 22 (RED) — EREG SEN0+ 5, EREG SEN0- 6 — MINIFIT 1X2

RIGHT Y-AXIS TRACK BRAKE — RSW2 — 220-01544A — RED 24, BLK 24 — ORG 22, WHT 22 (ORG) — EREG SEN1+ 7, EREG SEN1- 8 — MINIFIT 1X2

BLK 22 — EREG PD+ 3, EREG PD- 4

220-01828A — 220-01829B — 220-01831A — 220-01838A

220-01816A — PHA+ BLK, PHA- GRN, PHB- BLU, PHB+ RED — MINIFIT 2X2

RIGHT SHOE Z-AXIS MOTOR 500-00717A — M 8

PICKER RIGHT TOWER MANIFOLD — 220-01815B — BLK 24, RED 24

SV1 "right track brake on"
SV2 "right belt lock on"
SV3 "right plate separator on"
SV4 "right shoe top vac on"
SV5 "right shoe extend"
SV6 "right pcup up"
SV7 "right pcup mid"
SV8 "right pcup on"

220-01836B — (5) ACT 12, WHT 22 — MLX 1X2 — WHT 24

DUMP VALVE MANIFOLD — 220-01839A — 220-01842A — (2) ACT 9, BLK 22; (25) +24V, RED 22 — MINIFIT 1X2 — BLK 22, RED 22 — SV1 "dump valve on"

(3) ACT 10 — BLK 24, RED 24 — SV9 "right ss separator on"

(4) ACT 11 — BLK 24, RED 24 — SV10 "right gripper on"

PK-K1 — (1) ACT 8, BLK 22; (26) +24 V, RED 22 — 15-3359 — RED 22

220-01838A — RED 22, BLK 22 — MINIFIT 1X2

RIGHT TOWER — BAUMER SLIP SHEET SENSOR 13-5062 OZDM 16P1901 — 220-00357A — BRN 22, WHT 22, BLU 22 — MINIFIT 2X2 — WHT 22, GRN 22 — RED 22, WHT 22 (RED PAIR), ORG 22 — 220-01597A

Kodak

APL

GENINE 7 WIRING

PAGE 13_GENINE 7_PICKER RIGHT

DESIGNED BY:	DOCUMENT NUMBER:	LAST ECO:
S. FOUDIMOV	**705-00011D-A SD01**	
DRAWN BY:	LAST REVISED BY:	APPROVED BY:
S.FOUDIMOV	K.CHENG	
DESIGN DATE:	LAST MODIFIED DATE:	SHEET:
2006:06:02	2008:01:02	13 of 17

GENINE BOARD 8

10-4227E

BOARD ADDRESS = 0X38h

LEFT TOWER LC2

LOAD CELL 170-00078 — RED 28, GRN 28, YEL 28, BLU 28 — 220-01822A — 220-01821A — MICROFIT 1X4 — RED 22, GRY 22, YEL 22, BLU 22 — LEFT TOWER LCA 2

LOAD CELL AMP 601-00073 — +24V, GND, 0-5VDC OUT — 220-01820A — RED 22, ORG 22, WHT 22 (RED) — YEL 24

To GENINE 7, J24 [13] SCON BUS — 220-01817A — BLK1 18, BLK2 18, YEL 20, GRN 20, BRN 20, RED 24, DRAIN, RED 24, BLK 24, GRN 24, WHT 24, WHT 20 — SAT +48SAFE, SAT +48SRTN, SAT +24SAFE, SAT +24SRTN, SAT +24V, BRD LOC+, BRD LOC1-, BRD LOC2-, CAN_H, CAN_SNS, TERM_DET, SAT +24RTN, BRD LOC0-, BRD LOC2+

220-01818A — RED 24, BLK 24, GRN 24, WHT 24, DRAIN — 220-01833A — RED 24, BLK 24, GRN 24, WHT 24, DRAIN — MINIFIT 2X2 — To GENINE 9, J26 EXT SCON BUS [15]

+24V, SIG, GND, PD+, PD- — MTA 1X6 — J3 ANALOG0

J26 MINIFIT 2X8 CAN SCON1

J24 MINIFIT 2X5 CAN SCON2

LEFT SHOE Z-AXIS HOME SENSOR

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — 220-01823A — RED 22, BLK 22, WHT 22, GRN 22 — TO HOME.1 LED+ (1), TO HOME.1 LED- (4), TO HOME.1 C (2), TO HOME1. E (3)

LEFTT SHOE Z-AXIS AWAY SENSOR

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — ORG 22, BRN 22, BLU 22, YEL 22 — TO AWAY.1 LED+ (5), TO AWAY.1 LED- (8), TO AWAY.1 C (6), TO AWAY.1 E (7)

PD+ BLK 22 (10), PD- (11) — J20 2X6 HDR HA-1

LEFTT SHOE X-AXIS HOME SENSOR

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — 220-01824A — RED 22, BLK 22, WHT 22, GRN 22 — TO HOME.0 LED+ (1), TO HOME.0 LED- (4), TO HOME.0 C (2), TO HOME0. E (3)

PD+ BLK 22 (10), PD- (12) — J14 2X6 HDR HA-0

LEFT SHOE X-AXIS AWAY SENSOR

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — 220-01825A — RED 22, BLK 22, WHT 22, GRN 22 — TO AWAY.0 LED+ (5), TO AWAY.0 LED- (8), TO AWAY.0 C (6), TO AWAY.0 E (7)

J17 — STPR-CNTL — 2X10 HDR

LEFT SHOE X-AXIS MOTOR 500-00717A

M 9 — PHA+ BLK, PHA- GRN, PHB- BLU, PHB+ RED — MINIFIT 2X2 — 220-01827A — PHA+ BRN 22, PHB- GRN 22, PHA- WHT 22, PHB+ YEL 22, SHIELD — Gain 2 A/V — YEL 22

J2 IDC, 20PIN — J3 — 503-00265A CARRIAGE DRIVE — MINIFIT 2X4

J1 — +48V SAFE, RTN — MATE 1X2 — 220-01826A — BRN 16, BLK 16 — PD, BLK22

J27 — STEPPER POWER — MINIFIT 2X3

UMNL 2X4 STPR-DRIVE

J25 — PHA+ BRN 22, PHB- GRN 22, PD+ GRN 22, PHA- WHT 22, PHB+ YEL 22, Chassis Shield, PD- GRN 22 — 220-01816A — PHA+ BLK, PHA- GRN, PHB- BLU, PHB+ RED — MINIFIT 2X2 — LEFT SHOE Z-AXIS MOTOR 500-00717A — M 10

PICKER LEFT TOWER MANIFOLD

J18 — SOL_DRV0 SAMTEC, 2X8 — 220-01814B

ACT 0 / +24 V	BLK 24 / RED 24	SV1 "left track brake on"
ACT 1 / +24 V	BLK 24 / RED 24	SV2 "left belt lock on"
ACT 2 / +24 V	BLK 24 / RED 24	SV3 "left plate separator on"
ACT 3 / +24 V	BLK 24 / RED 24	SV4 "left shoe top vac on"
ACT 4 / +24 V	BLK 24 / RED 24	SV5 "left shoe extend"
ACT 5 / +24 V	BLK 24 / RED 24	SV6 "left pcup up"
ACT 6 / +24 V	BLK 24 / RED 24	SV7 "left pcup mid"
ACT 7 / +24 V	BLK 24 / RED 24	SV8 "left pcup on"

220-01835B

J21 — SOL-DRV 1, 2X13 HDR

(5) ACT 12 WHT 24 — WHT 24 — MLX 1X2

(4) ACT 11 BLK 24 — SV10 "left gripper on"

(3) ACT 10 BLK 24, (25) +24 V RED 24 — SV9 "left ss separator on"

LEFT SHOE EXTEND

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — 220-01828A — RED 24, BLK 24, WHT 24, GRN 24 — TO DSEN16 LED+ (1), TO DSEN16 LED- (4), TO DSEN16 C (2), TO DSEN16 E (3)

LEFT SHOE RETRACT

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — RED-WHT 24, BLK-WHT 24, BLU-BLK 24, GRN-WHT 24 — TO DSEN17 LED+ (5), TO DSEN17 LED- (8), TO DSEN17 C (6), TO DSEN17 E (7)

LEFT PCUP UP

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — RED-BLK 24, BLU 24, WHT-BLK 24, GRN-BLK 24 — TO DSEN18 LED+ (9), TO DSEN18 LED- (12), TO DSEN18 C (10), TO DSEN18 E (11)

PD RED 24 (4), RED 24 (8), RED 24 (12), RED 24 (17)

LEFTT PLATE LOCATION 2

36-3222 — GRN 24, RED-WHT 24, BLK-WHT 24 — TO DSEN5 LED+ (5), TO DSEN5 C (6), TO DSEN5 E (7), TO DSEN6 LED+ (9), TO DSEN6 C (10), TO DSEN6 E (11)

LEFT PLATE LOCATION 3

36-3222 — ORG 24, BLU-BLK 24, GRN-WHT 24

LEFT PCUP DOWN

36-3125 — LED+, LED-, COLLECTOR, EMITTER — 10-4982A — RED 22, BLK 22, WHT 22, GRN 22 — RED-BLK 24, BLU 24, WHT-BLK 24, GRN-BLK 24 — TO DSEN7 LED+ (13), TO DSEN 7 LED- (16), TO DSEN 7 C (14), TO DSEN7 E (15)

J5 2X17 HDR DIGITAL-IN4 — 220-01828A

J4 2X10 HDR DIGITAL-IN2 — 220-01829B

J10 DIG_IN1 IDC, 14PIN — 220-01831A

J1 AN_1 1X6 MTA — 4-20mA Out, GND, PD+, PD-

PICKER CRASH LEFT

15-3355 — RED 22, BLK 22 — 220-01830A — MINIFIT 1X2 — 220-01832A — RED 22, BLK 22 — MINIFIT 1X2 — 220-01834A — ORG 22, WHT 22 (ORG) — GENINE 6, J10 ADAPTOR — CRASH LEFT [13]

LEFT Y-AXIS BELT LOCK

RSW1 — 220-01544A — RED 24, BLK 24 — MINIFIT 1X2 — RED 22, WHT 22 (RED) — BLK 22, EREG PD+ 3, EREG PD- 4, EREG SEN0+ 5, EREG SEN0- 6

LEFT Y-AXIS TRACK BRAKE

RSW2 — 220-01544A — RED 24, BLK 24 — MINIFIT 1X2 — ORG 22, WHT 22 (ORG) — EREG SEN1+ 7, EREG SEN1- 8

PK-K2 — 15-3359 — RED 22, BLK 22 — MINIFIT 1X2 — (1) ACT 8 BLK 22, (26) +24 V RED 22

LEFT TOWER

BAUMER SLIP SHEET SENSOR 13-5062 OZDM 16P1901 — 220-00357A — BRN 22, WHT 22, BLU 22 — 220-01597A — RED 22, WHT 22 (RED PAIR), ORG 22 — WHT 22, GRN 22

Kodak	APL
	GENINE 8 WIRING
PAGE 14_GENINE 8_PICKER LEFT	
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00011D-A SD01 / LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG / APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02 / SHEET: 14 of 17

GENINE BOARD 9

10-4227E

BOARD ADDRESS = 0X39h

To GENINE 6, J24 EXT [12] BUS POWER
BLK1 18
BLK2 18
YEL 20
GRN 20
BRN 20
WHT 20

To GENINE 8, J24 EXT [14] CAN
220-01833A
RED 24
BLK 24
WHT 24
GRN 24
DRAIN
MINIFIT 2X2

220-01742A
J26 MINIFIT 2X8 CAN SCON1
SAT +48SAFE
SAT -48SRTN
SAT +24SAFE
SAT -24SRTN
SAT +24V
CAN H
CAN L
CHASSIS
TERM_DET
SAT -24RTN
BRD_LOC+
BRD_LOC-
RED 22
DRAIN
RED 24
BLK 24
GRN 24
WHT 24
WHT 20

220-01743A
J24 MINIFIT 2X5 CAN SCON2
To GENINE 10, J26 SCON BUS [16]
DRAIN
WHT 20
GRN 24
BLK 24
RED 24
BRN 20
GRN 20
BLK2 18
BLK1 18

J3 MTA 1X6 ANALOG0

J25 UMNL 2X4 STPR-DRIVE
PHA+ BRN 22
PHB- GRN 22
PD+ GRN 22
PHA- WHT 22
PHB+ YEL 22
Chassis
PD- GRN 22
Shield

220-01754A
PHA+ BLK
PHA- GRN
PHB- BLU
PHB+ RED
MINIFIT 2X2
PUSHER X-AXIS RIGHT MOTOR 500-00717A
M 12

220-01744A
PUSHER X-AXIS RIGHT HOME SENSOR
36-3125 LED+ LED- COLLECTOR EMITTER
10-4982A RED 22 BLK 22 WHT 22 GRN 22
RED 22 TO HOME.1 LED+ (1)
BLK 22 TO HOME.1 LED- (4)
WHT 22 TO HOME.1 C (2)
GRN 22 TO HOME1. E (3)

PUSHER X-AXIS RIGHT AWAY SENSOR
RED 22 TO AWAY.1 LED+ (5)
WHT 22(RED) TO AWAY.1 LED- (8)
ORG 22 TO AWAY.1 C (6)
WHT 22(ORG) TO AWAY.1 E (7)

220-01745A
PUSHER Z-AXIS RIGHT HOME SENSOR
RED 24 TO HOME.0 LED+ (1)
BLK 24 TO HOME.0 LED- (4)
WHT 24 TO HOME.0 C (2)
GRN 24 TO HOME0. E (3)

PUSHER Z-AXIS RIGHT AWAY SENSOR
ORG 24 TO AWAY.0 LED+ (5)
BRN 24 TO AWAY.0 LED- (8)
BLU 24 TO AWAY.0 C (6)
YEL 24 TO AWAY.0 E (7)

220-02209A
PUSHER RIGHT SHOE MIN HEIGHT
RED 22 TO DSEN4 LED+ (1)
WHT 22 (RED PAIR) TO DSEN4 LED- (4)
ORG 22 TO DSEN4 C (2)
WHT 22 (ORG PAIR) TO DSEN4 E (3)
MINIFIT 2X2

PD+ (8)
RED 24 (9)

J14 2X6 HDR HA-0
PD+ BLK 22 (10)
PD- (12)

J4 DIGITAL-IN2
2X10 HDR

220-01753A
J18
ACT 0 BLK 24
+24 V RED 24
ACT 1 BLK 24
+24 V RED 24
ACT 2 BLK 24
+24 V RED 24
ACT 3 BLK 24
+24 V RED 24
ACT 4 BLK 24
+24 V RED 24
SOL_DRV0 SAMTEC, 2X8

PUSHER VALVE MANIFOLD
SV1 "air amp kick on"
SV2 "SS clamp on"
SV3 "SS clamp off"
SV4 "air amp on"
SV5 "spare 1"

36-3222
PUSHER RIGHT SS PRESENCE
ORG 24 (1)
BRN 24 (2)
YEL 24 (3)

AIR AMP KICK DN RIGHT
RED 24 (4)
BLK 24 (5)
WHT 24 (6)
GRN 24 (7)

PUSHER Y-AXIS RIGHT HOME SENSOR (RIGHT HOOK)
RED 24 (8)
BLK 24 (9)
WHT 24 (10)
GRN 24 (11)

PUSHER Y-AXIS RIGHT AWAY SENSOR (RIGHT HOOK)
ORG 24 (12)
BRN 24 (13)
BLU 24 (14)
YEL 24 (15)

220-02208A
(1) ORG 24 TO DSEN5 LED+ (5)
(2) BRN 24 TO DSEN5 C (6)
(3) YEL 24 TO DSEN5 E (7)
(4) RED 24 TO DSEN7 LED+ (13)
(5) BLK 24 TO DSEN7 LED- (16)
(6) WHT 24 TO DSEN7 C (14)
(7) GRN 24 TO DSEN7 E (15)
(8) RED 24
(9) BLK 24
(10) WHT 24
(11) GRN 24
(12) ORG 24
(13) BRN 24
(14) BLU 24
(15) YEL 24
(16) RED 22
(17) ORG 22
(18) WHT 22 (ORG)
MINIFIT 2X9

To GENINE 11, J14 [17] PSHR Y RIGHT H/A SNS

220- 01749A
170-00074
PLATE HEIGHT RIGHT
+24V RED 22 RED 22 (16)
GND BLK 22 ORG 22 (17)
NO WHT 22 WHT 22 (ORG) (18)
MINIFIT 2X2

J10 DIG_IN1
IDC, 14PIN

STPR-CNTL
J17 2X10 HDR

STEPPER POWER
J27 MINIFIT 2X3
PD
BLK22

220-01751A
220-01746A

ORG 22 EREG SEN2- 10
RED 22 +24V 1
BRN 22 EREG SEN0+ 5
BLK 22 EREG SEN0-6
BLK 22 EREG PD+ 3
EREG PD- 4

RED 22
ORG 22
WHT 22 (ORG)
MINIFIT 2X2

PH-K1
15-3359

To GENINE 6, J10 [12] IND SNS RIGHT
220- 01776A
RED 22
WHT 22 (RED)
MINIFIT 1X2

220-02219A
G/Y 14
GND M5 STUD PUSHER FRAME
GND M5 STUD PICKER GANTRY FRAME

PUSHER Z-AXIS RIGHT MOTOR 500-00717A
M 11
220-01747A
PHA+ BLK
PHA- GRN
PHB- BLU
PHB+ RED
MINIFIT 2X2
PHA+ BRN 22
PHB+ YEL 22
PHA- WHT 22
PHB- GRN 22
SHIELD
Gain 2 A/V
YEL 22
J2 IDC, 20PIN
J3 MINIFIT 2X4
503-00265A CARRIAGE DRIVE
J1 MATE 1X2
+48V SAFE
RTN
220-01748A
BRN 16
BLK 16

Kodak	APL GENINE 9 WIRING	
PAGE 15_GENINE 9 PUSHER RIGHT		
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00011D-A SD01	LAST ECO:
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG	APPROVED BY:
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02	SHEET: 15 of 17

GENINE BOARD 10

10-4227E

BOARD ADDRESS = 0X3Ah

To GENINE 9, J24 [15] SCON BUS — 220-01743A — 220-01755A — To GENINE 11, J26 [17] SCON BUS

J26 MINIFIT 2X8 CAN — J24 MINIFIT 2X5 CAN

J20 2X6 HDR — J14 2X6 HDR — HA-0

J4 DIGITAL-IN2 — 2X10 HDR

J2 DIGITAL-IN3 — 2X15 HDR

J25 STPR-DRIVE — UMNL 2X4

J10 DIG_IN1 IDC, 14PIN — J17 STPR-CNTL 2X10 HDR — J27 STEPPER POWER MINIFIT 2X3

J3 — MINIFIT 2X4

J1 — MATE 1X2

PUSHER X-AXIS LEFT HOME SENSOR

36-3125 — 10-4982A — 220-01756A

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

PUSHER X-AXIS LEFT AWAY SENSOR

36-3125 — 10-4982A

LED+ RED 22 — TO AWAY.1 LED+ (5)
LED- BLK 22 — TO AWAY.1 LED- (8)
COLLECTOR WHT 22 — TO AWAY.1 C (6)
EMITTER GRN 22 — TO AWAY.1 E (7)

PUSHER Z-AXIS LEFT HOME SENSOR

36-3125 — 10-4982A — 220-01757A

LED+ RED 22 — TO HOME.0 LED+ (1)
LED- BLK 22 — TO HOME.0 LED- (4)
COLLECTOR WHT 22 — TO HOME.0 C (2)
EMITTER GRN 22 — TO HOME0. E (3)

PUSHER Z-AXIS LEFT AWAY SENSOR

36-3125 — 10-4982A

LED+ RED 22 — TO AWAY.0 LED+ (5)
LED- BLK 22 — TO AWAY.0 LED- (8)
COLLECTOR WHT 22 — TO AWAY.0 C (6)
EMITTER GRN 22 — TO AWAY.0 E (7)

PUSHER LEFT SHOE MIN HEIGHT

36-3125 — 10-4982A — 220-02210A

LED+ RED 22 — WHT 22 (RED PAIR) TO DSEN4 LED+ (1)
LED- BLK 22 — WHT 22 (RED PAIR) TO DSEN4 LED- (4)
COLLECTOR WHT 22 — ORG 22 TO DSEN4 C (2)
EMITTER GRN 22 — WHT 22 (ORG PAIR) TO DSEN4 E (3)

MINIFIT 2X2

PD+ (8) RED 24 (9)

PUSHER LEFT SS PRESENCE

36-3222

ORG 24 (1)
BRN 24 (2)
YEL 24 (3)

AIR AMP KICK DN LEFT

36-3125 — 10-4982A

LED+ RED 22 — RED 24 (4)
LED- BLK 22 — BLK 24 (5)
COLLECTOR WHT 22 — WHT 24 (6)
EMITTER GRN 22 — GRN 24 (7)

PUSHER Y-AXIS LEFT HOME SENSOR (LEFT HOOK)

36-3125 — 10-4982A

LED+ RED 22 — RED 24 (8)
LED- BLK 22 — BLK 24 (9)
COLLECTOR WHT 22 — WHT 24 (10)
EMITTER GRN 22 — GRN 24 (11)

PUSHER Y-AXIS LEFT AWAY SENSOR (LEFT HOOK)

36-3125 — 10-4982A

LED+ RED 22 — ORG 24 (12)
LED- BLK 22 — BRN 24 (13)
COLLECTOR WHT 22 — BLU 24 (14)
EMITTER GRN 22 — YEL 24 (15)

PLATE HEIGHT LEFT

170-00074 — 220- 01749A

+24V RED 22 — RED 22 (16)
GND BLK 22 — ORG 22 (17)
NO WHT 22 — WHT 22 (ORG) (18)

MINIFIT 2X2

220-02208A

(1) ORG 24 — TO DSEN5 LED+ (5)
(2) BRN 24 — TO DSEN5 C (6)
(3) YEL 24 — TO DSEN5 E (7)
(4) RED 24 — TO DSEN7 LED+ (13)
(5) BLK 24 — TO DSEN7 LED- (16)
(6) WHT 24 — TO DSEN7 C (14)
(7) GRN 24 — TO DSEN7 E (15)
(8) RED 24
(9) BLK 24
(10) WHT 24
(11) GRN 24
(12) ORG 24
(13) BRN 24
(14) BLU 24
(15) YEL 24
(16) RED 22
(17) ORG 22
(18) WHT 22 (ORG)

MINIFIT 2X9

ORG 24 BRN 24 RED 24 BLK 24 WHT 24 GRN 24 ORG 24 BRN 24 BLU 24 YEL 24 RED 22 ORG 22 WHT 22 (ORG)

To GENINE 11, J20 [17] PSHR Y LEFT H/A SNS

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

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

PUSHER X-AXIS LEFT MOTOR 500-00717A

M 14

220-01765A — MINIFIT 2X2

PHA+ BRN 22 — PHA+ BLK
PHB- GRN 22 — PHA- GRN
PD+ GRN 22 — PHB- BLU
PHA- WHT 22 — PHB+ RED
PHB+ YEL 22
Chassis — Shield
PD- GRN 22

220-01763A — 10-4982A — 36-3125 — PUSHER SAFE

DSEN9 LED+ — RED 22 — LED+
DSEN9 LED- — BLK 22 — LED-
DSEN9 C — WHT 22 — COLLECT
DSEN9 E — GRN 22 — EMITTER

PUSHER LEFT MOTOR 500-00717A

M 13

220-01759A — MINIFIT 2X2

PHA+ BLK — PHA+ BRN 22
PHA- GRN — PHB+ YEL 22
PHB- BLU — Gain 2 A/V
PHB+ RED — PHA- WHT 22
PHB- GRN 22
SHIELD — YEL 22

J3 — MINIFIT 2X4

220-01762A — 220-01758A

J2 IDC, 20PIN — 503-00265A CARRIAGE DRIVE

J1 +48V SAFE BRN 16 — RTN BLK 16 — 220-01760A — MATE 1X2

PD — BLK22

RED 22 / ORG 22 / WHT 22 (ORG)

MINIFIT 2X2

ORG 22 EREG SEN2- 10
RED 22 +24V 1
BRN 22 EREG SEN0+ 5
ORG 22 — PH-K2 — 1 — 6
3 4 2 5
15-3359
BLK 22 EREG SEN0-6
BLK 22 EREG PD+ 3
EREG PD- 4

To GENINE 6, J10 [12] IND SNS LEFT — 220- 01777A

RED 22 WHT 22 (RED) — RED 22 BLK 22

MINIFIT 1X2

SAT +48SAFE / SAT +48SRTN / SAT +24SRTN / SAT +24V / BRD_LOC+- / BRD_LOC1- / BRD_LOC2- / CAN_H / CAN_L / CHASSIS / TERM_DEF / SAT +24RTN / BRD_LOC+ / BRD_LOC0- / BRD_LOC2-

BLK1 18 / BLK2 18 / YEL 20 / GRN 20 / BRN 20 / RED 22 / DRAIN / RED 24 / BLK 24 / GRN 24 / WHT 20 / DRAIN

GENINE BOARD 11

10-4227E

BOARD ADDRESS = 0X3Bh

SCON Bus Terminator(GEN11) 220-01766A: +24V, CAN H, CAN L, 2.7K 5%,.25W,CAR, 120R,5%,.25W,CAR, TERM DET

To GENINE 10, J24 — [16] SCON BUS — 220-01755A

J26 MINIFIT 2X8 CAN SCON1: 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_LOC2-

J24 MINIFIT 2X5 CAN SCON2: SAT_+48SAFE, SAT_+48SRTN, SAT_-24SAFE, SAT_-24SRTN, SAT_+24V, CAN_H, CAN_L, CHASSIS, TERM_DET, SAT_-24RTN

J3 MTA 1X6 ANALOG0

To 220-02208A — [16] PSHR Y LEFT H/A SNS — 220-02210A

RED 24	TO HOME.1 LED+	(1)
BLK 24	TO HOME.1 LED-	(4)
WHT 24	TO HOME.1 C	(2)
GRN 24	TO HOME1. E	(3)
ORG 24	TO AWAY.1 LED+	(5)
BRN 24	TO AWAY.1 LED-	(8)
BLU 24	TO AWAY.1 C	(6)
YEL 24	TO AWAY.1 E	(7)

PD+ BLK 22 (10) / PD- (11) — J20 2X6 HDR HA-1

To 220-02208A — [16] PSHR Y RIGHT H/A SNS — 220-02209A

RED 24	TO HOME.0 LED+	(1)
BLK 24	TO HOME.0 LED-	(4)
WHT 24	TO HOME.0 C	(2)
GRN 24	TO HOME0. E	(3)
ORG 24	TO AWAY.0 LED+	(5)
BRN 24	TO AWAY.0 LED-	(8)
BLU 24	TO AWAY.0 C	(6)
YEL 24	TO AWAY.0 E	(7)

PD+ BLK 22 (10) / PD- (12) — J14 2X6 HDR HA-0

220-01891A — J17 STPR-CNTL 2X10 HDR

J25 UMNL 2X4 — STPR-DRIVE: PHA+ BRN 22, PHB- GRN 22, PD+ GRN 22, PHA- WHT 22, PHB+ YEL 22, Chassis Shield, PD- GRN 22

220-01894A — MINIFIT 2X3: BRN 22, WHT 22, GRN 22, YEL 22, SHIELD

220-02211A — MINIFIT 2X2: PHA+ RED, PHA- BLU, PHB- BLK, PHB+ GRN

Y-AXIS LEFT PLATE HOOK ADVANCE — 500-04213A — M 16

J18 SOL_DRV1 SAMTEC, 2X8

Y-AXIS RIGHT PLATE HOOK ADVANCE — 500-04213A — M 15

220-02211A — MINIFIT 2X2: PHA+ RED, PHA- BLU, PHB- BLK, PHB+ GRN; BRN 22, WHT 22, GRN 22, YEL 22, SHIELD

220-01892A — MINIFIT 2X3: PHA+ BRN 22, PHB- GRN 22, Gain 2 A/V, PHA- WHT 22, PHB+ YEL 22, SHIELD, YEL 22

J3 MINIFIT 2X4 — J2 IDC, 20PIN — 503-00265A CARRIAGE DRIVE

J1 MATE 1X2: +48V SAFE, RTN

220-01893A — BRN 16, BLK 16, PD, BLK22 — J27 STEPPER POWER MINIFIT 2X3

J11 DIG_IN1 IDC, 14PIN

J4 DIGITAL-IN2 2X10 HDR

Kodak	APL
	GENINE 11 WIRING
PAGE 17_GENINE 11_PUSHER HOOK MOTORS	
DESIGNED BY: S. FOUDIMOV	DOCUMENT NUMBER: 705-00011D-A SD01
DRAWN BY: S.FOUDIMOV	LAST REVISED BY: K.CHENG
DESIGN DATE: 2006:06:02	LAST MODIFIED DATE: 2008:01:02
LAST ECO:	APPROVED BY:
SHEET: 17 of 17	