

InfoPrint 3000



Wiring and Circuit Diagrams

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Wiring Diagrams - Introduction

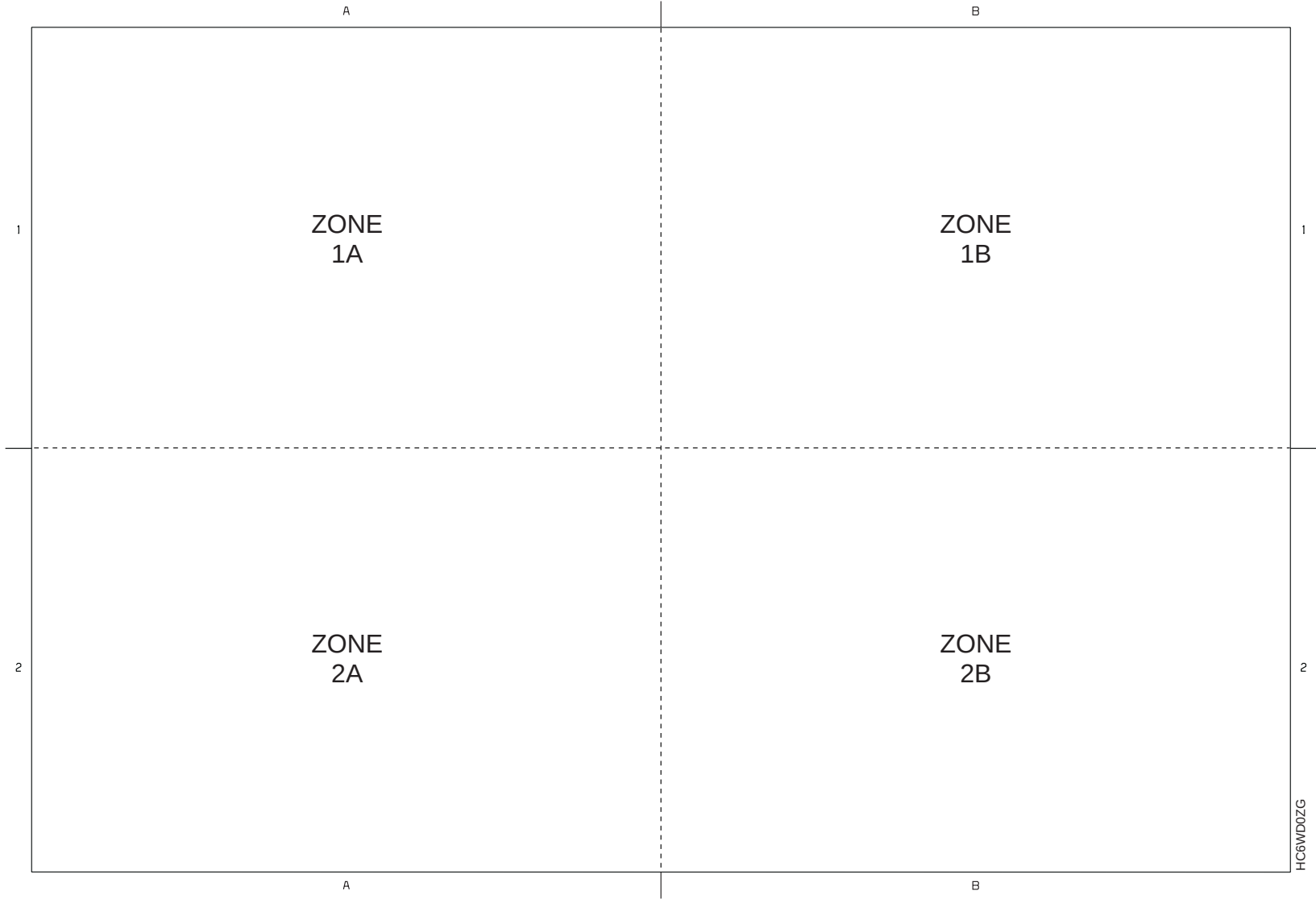
The primary purpose of these diagrams is to support the MAPs by providing a means of locating, servicing and troubleshooting the electronics portion of the InfoPrint 3000 printers.

The InfoPrint 3000 printers include both simplex and duplex systems. Circuits unique to simplex printers will have SIMPLEX in their title. Circuits unique to duplex printers will have DUPLEX in their title. Duplex systems are made up of two printers.

The wiring diagrams are divided into two sections as follows:

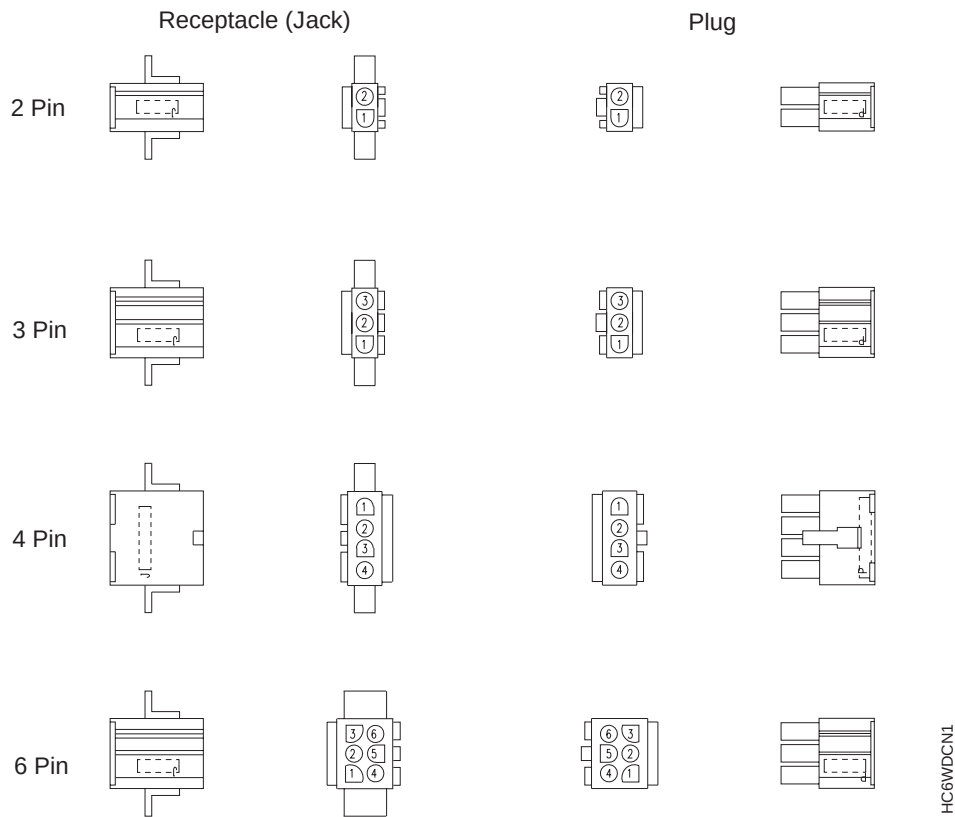
- “AC Circuits” on page 23
- “DC Circuits and Channel Attach Electronics” on page 38

Zoning Grid - Landscape Layout

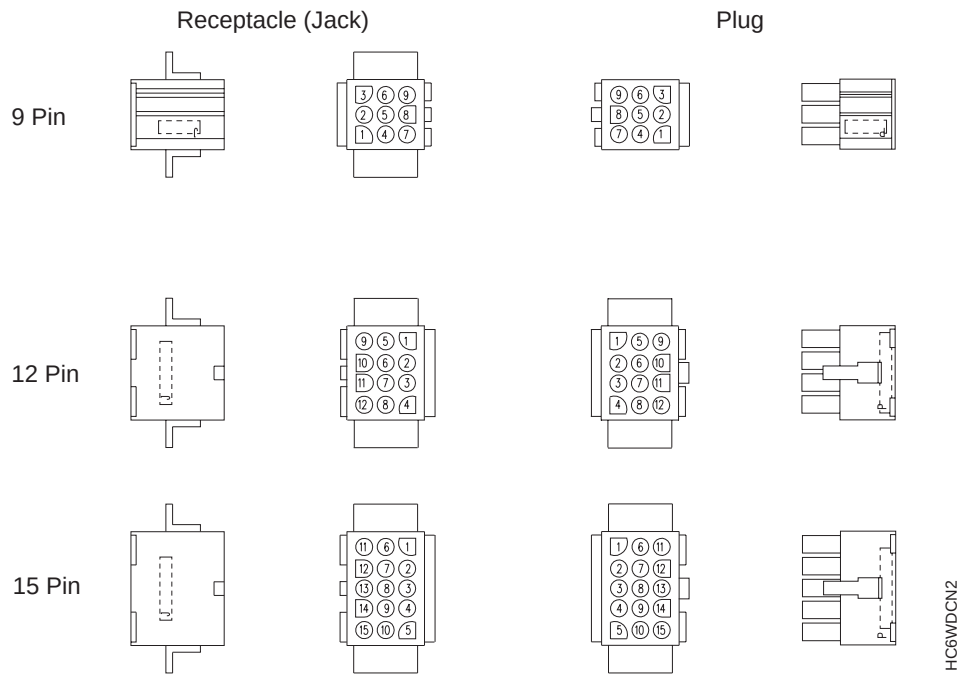


Connector Layouts

MATE-N-LOCK Connectors

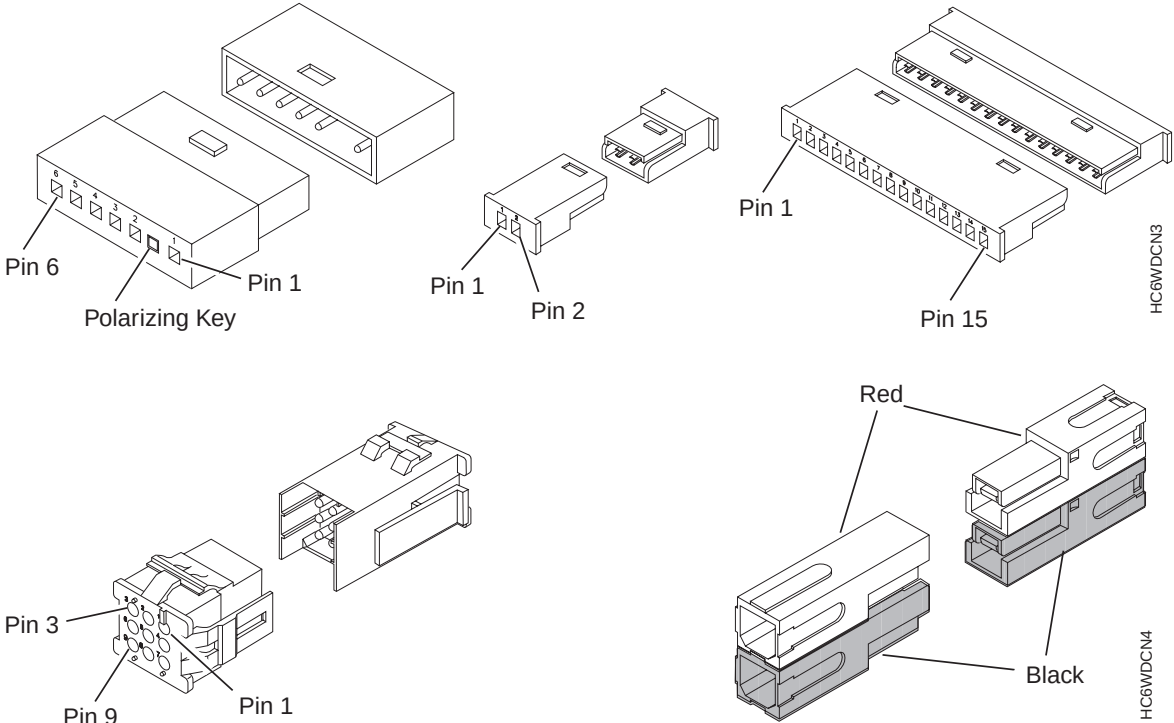


MATE-N-LOCK Connectors (cont'd)

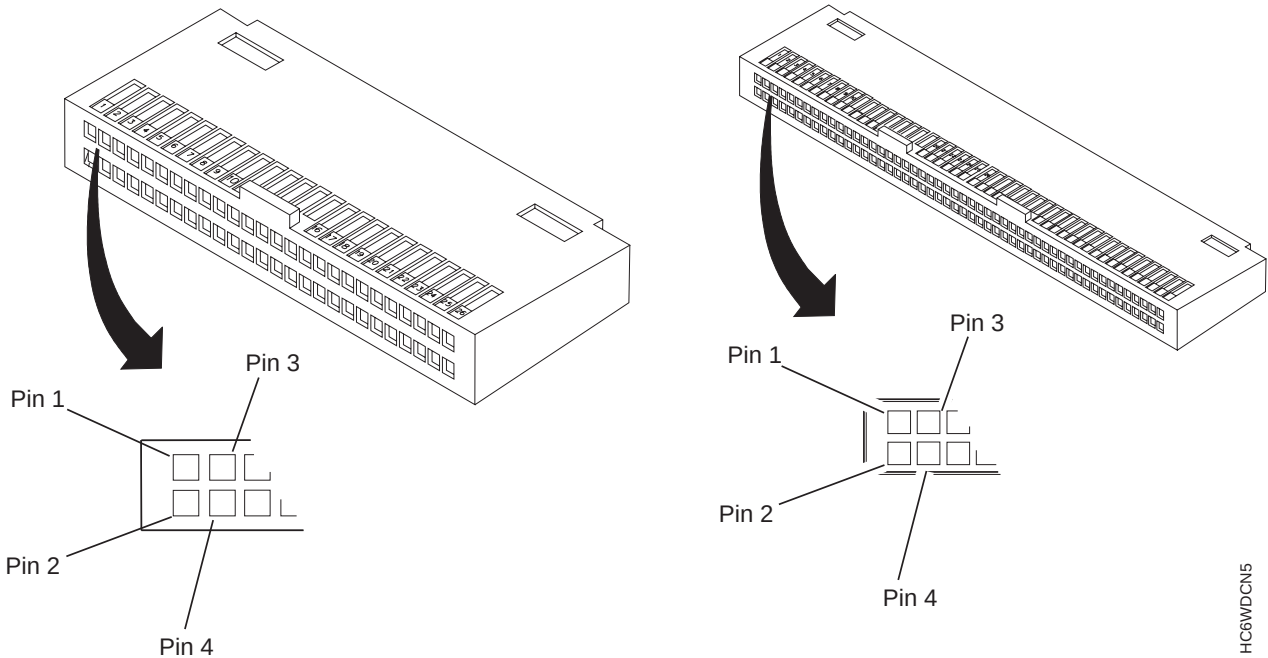


HC6WDCN2

ELCO, AMP and Polarized Connectors



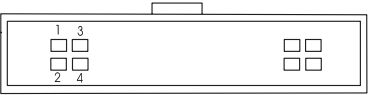
ELCO, AMP and Polarized Connectors (cont'd)



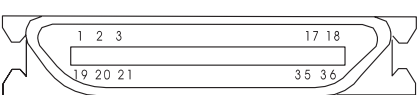
HC6WDCN5

ELCO, AMP and Polarized Connectors (cont'd)

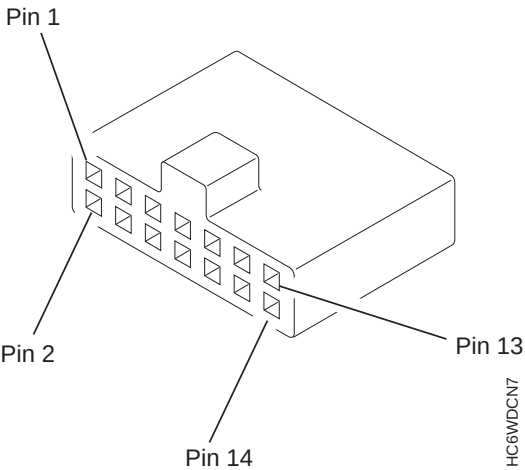
CD4 Pin Side



P229 Contact Side



HC6WDCN6



HC6WDCN7

AC Input / Output Tables

AC Input

Table 1. AC Input

Input Voltage (VAC)	Frequency	Phase/Wire
200/208/220 230/240	50/60 HZ	3 Phase - Ground
380/400/415	50 HZ	3 Phase - Neutral - Ground

AC / DC Power Tables

DC Output

Table 2. DC Output

DC Output	Voltage		Purpose
	Min	Max	
+5V	5.25	5.45	Logics
+5VM	3.5	6.5	Mirror Mtr Logics
+12V	11.5	12.5	OP AMP
+12VM	7.0	17.0	Mirror Mtr Transistor
-12V	-11.5	-12.5	OP AMP
+24VD	23.0	25.0	Motor
+24VE	23.0	25.0	Thermal System
+24VF	23.0	25.0	Driver Cards
+24VH	23.3	24.7	High Voltage PS
+40VD	39.0	41.0	Motor
+100VM	98	102	Mirror Motor

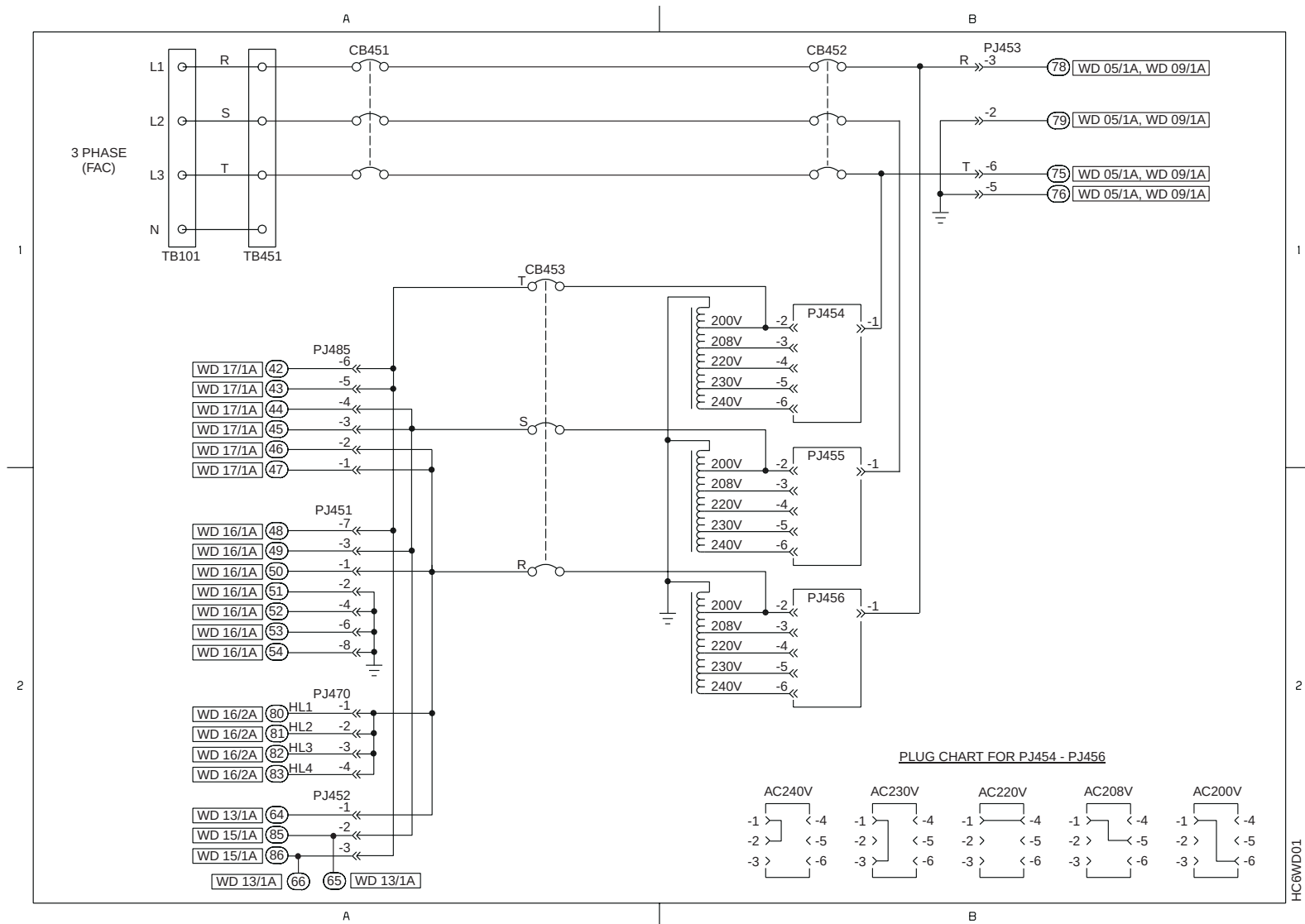
Over Temperature Protection

Table 3. Over Temperature Protection

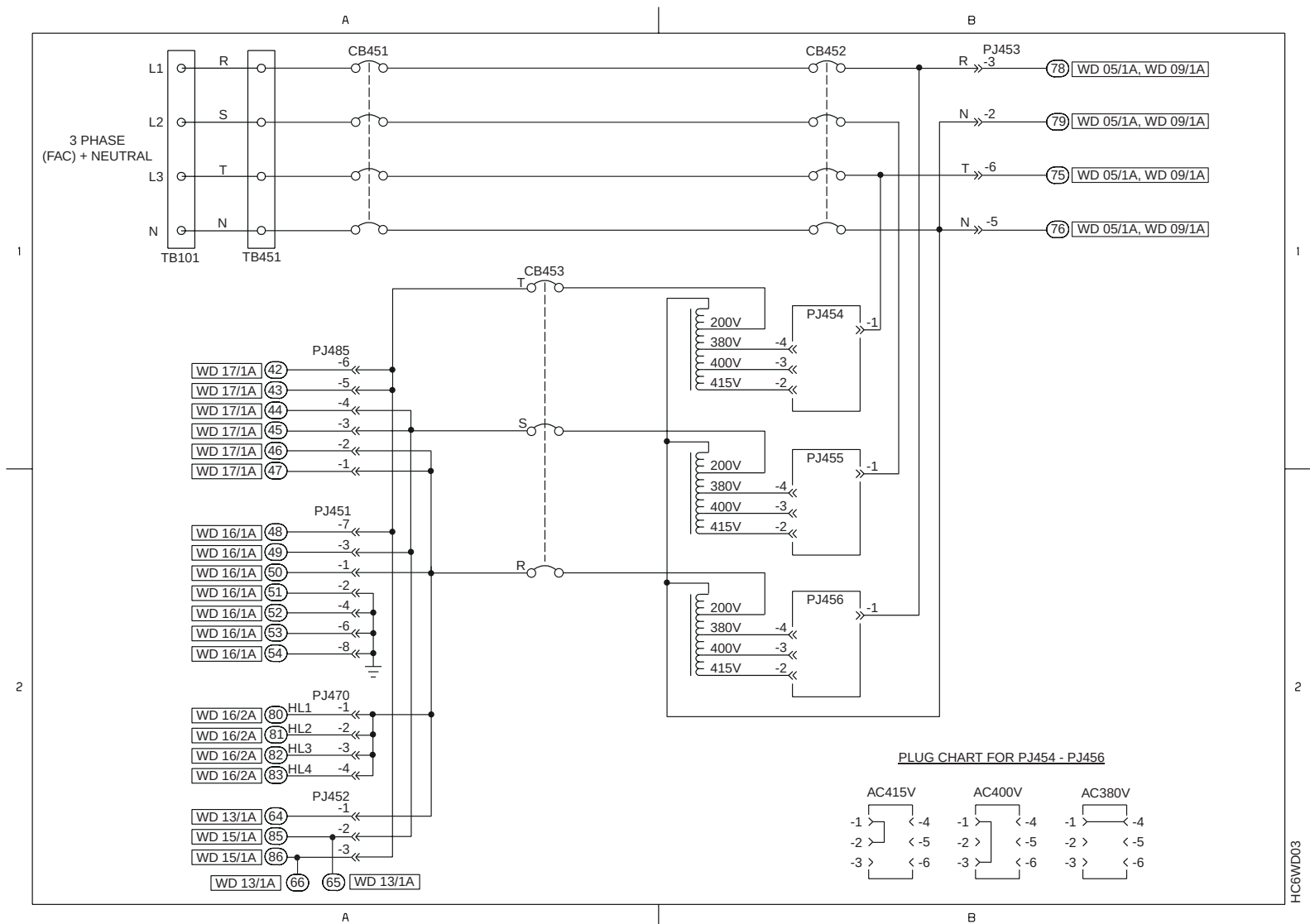
Marking	Component	Temp	Component
TH501	Thermal Switch	70°C	Soft Start Resistor
TH502	Thermal Switch	70°C	
T501	Thermal Switch	135°C	Transformer
T502	Thermal Switch	135°C	

AC Circuits

WD01 - Printer AC Power Supply - (200 to 240V)

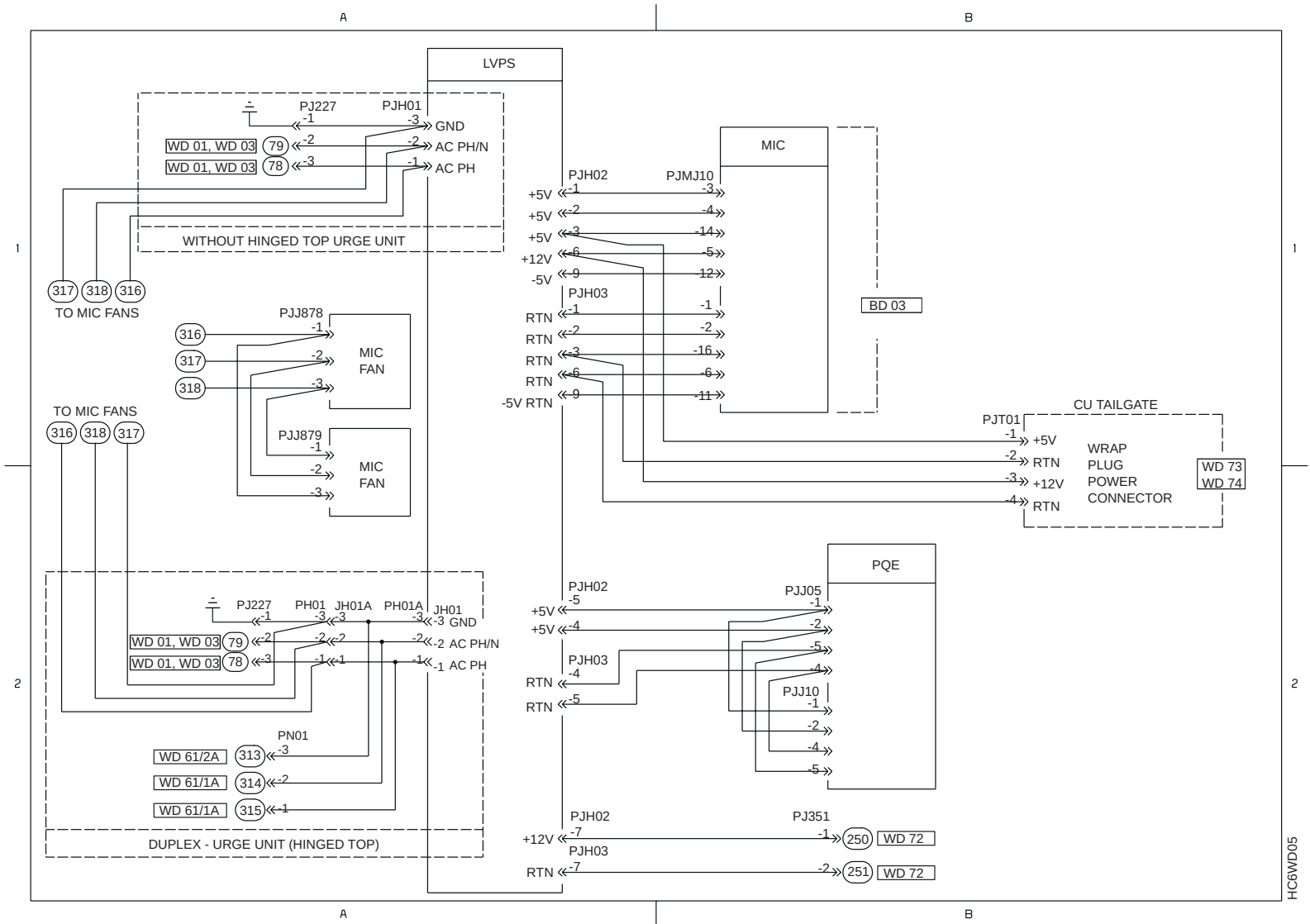


WD03 - Printer AC Power Supply - (380/400/415V)

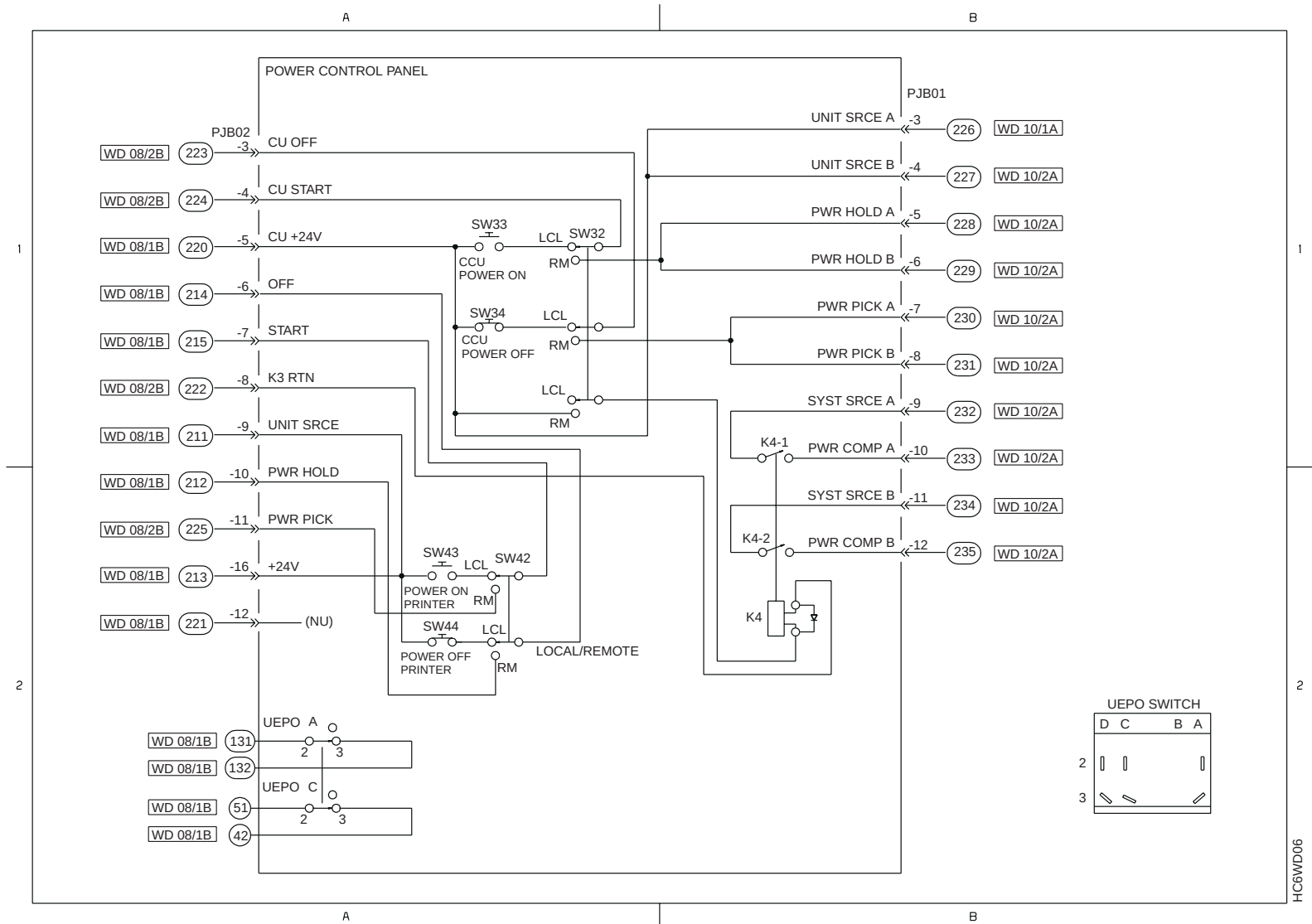


HC6WD03

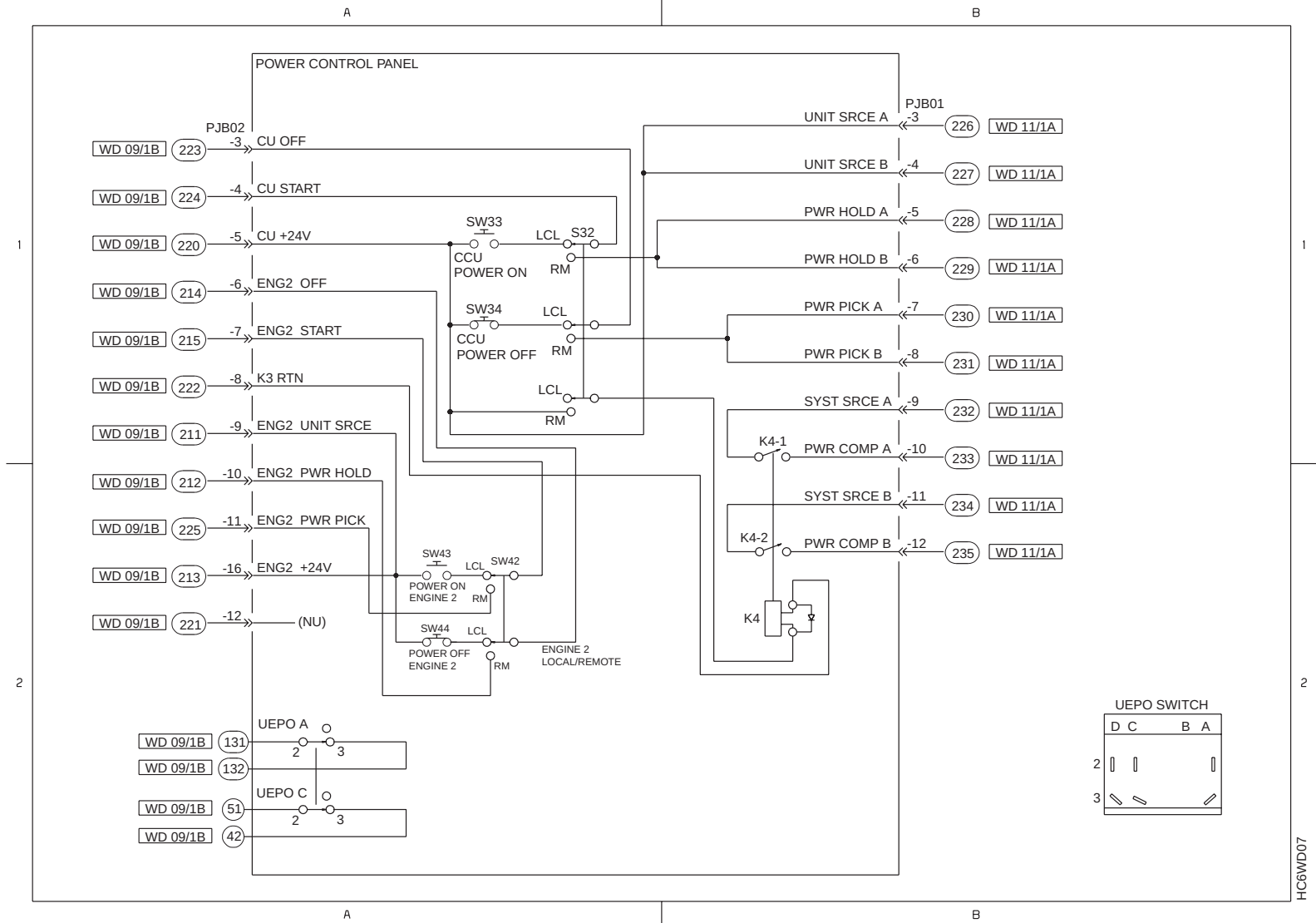
WD05 - Low Voltage Power Supply, MIC, PQE & Fans



WD06 - Control Unit AC Power Control (Simplex)

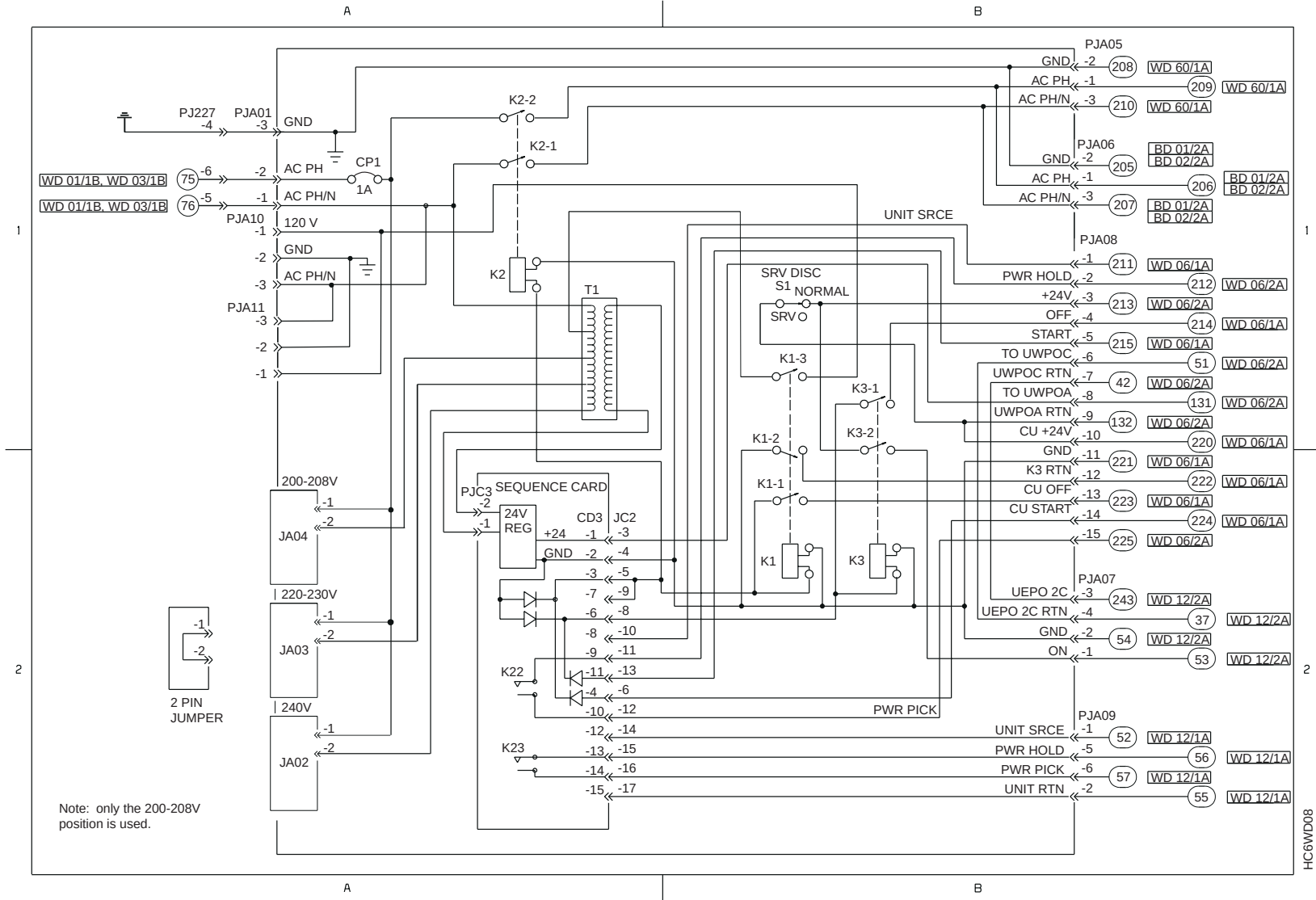


WD07 - Control Unit AC Power Control (Duplex)

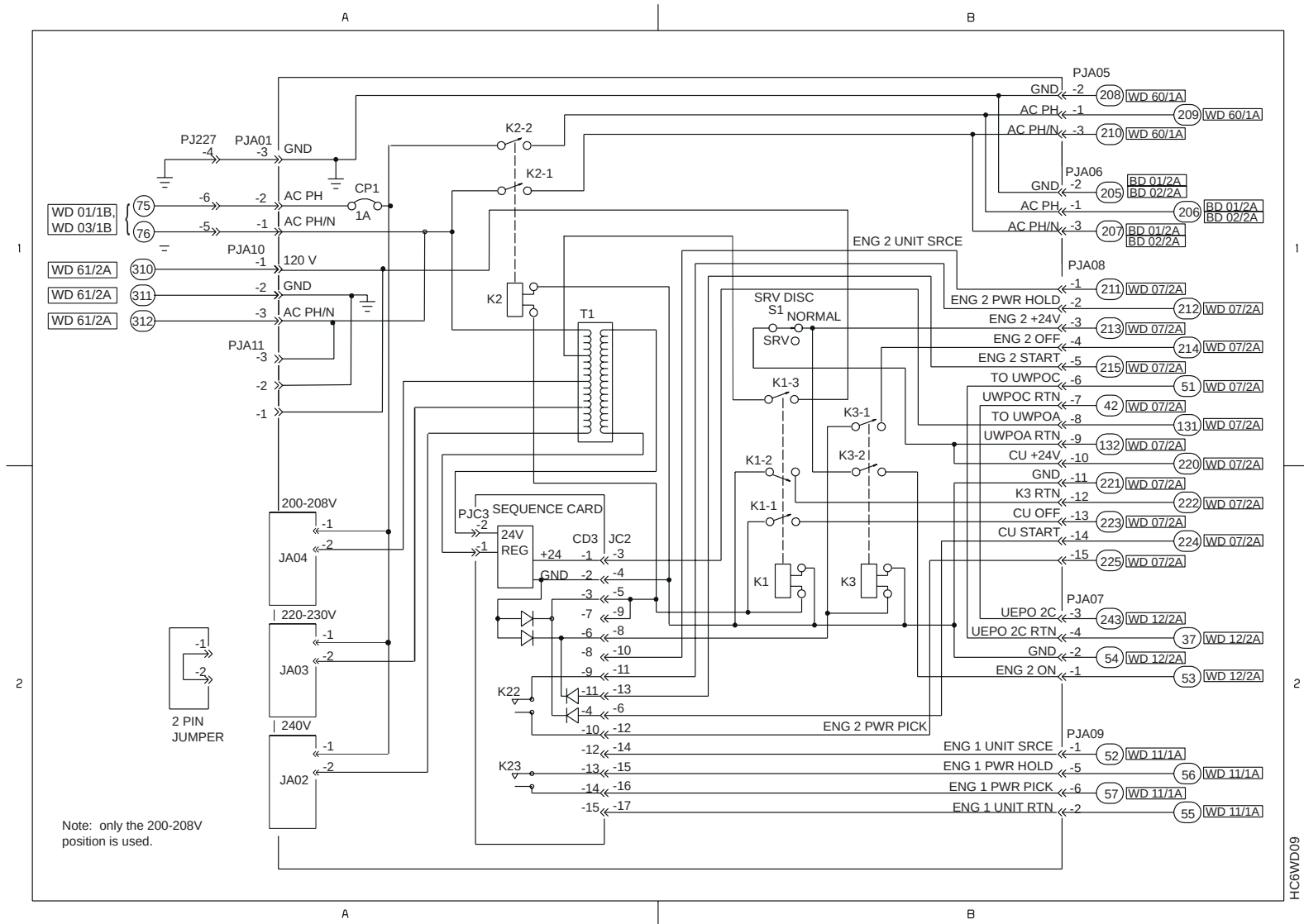


HC6WD07

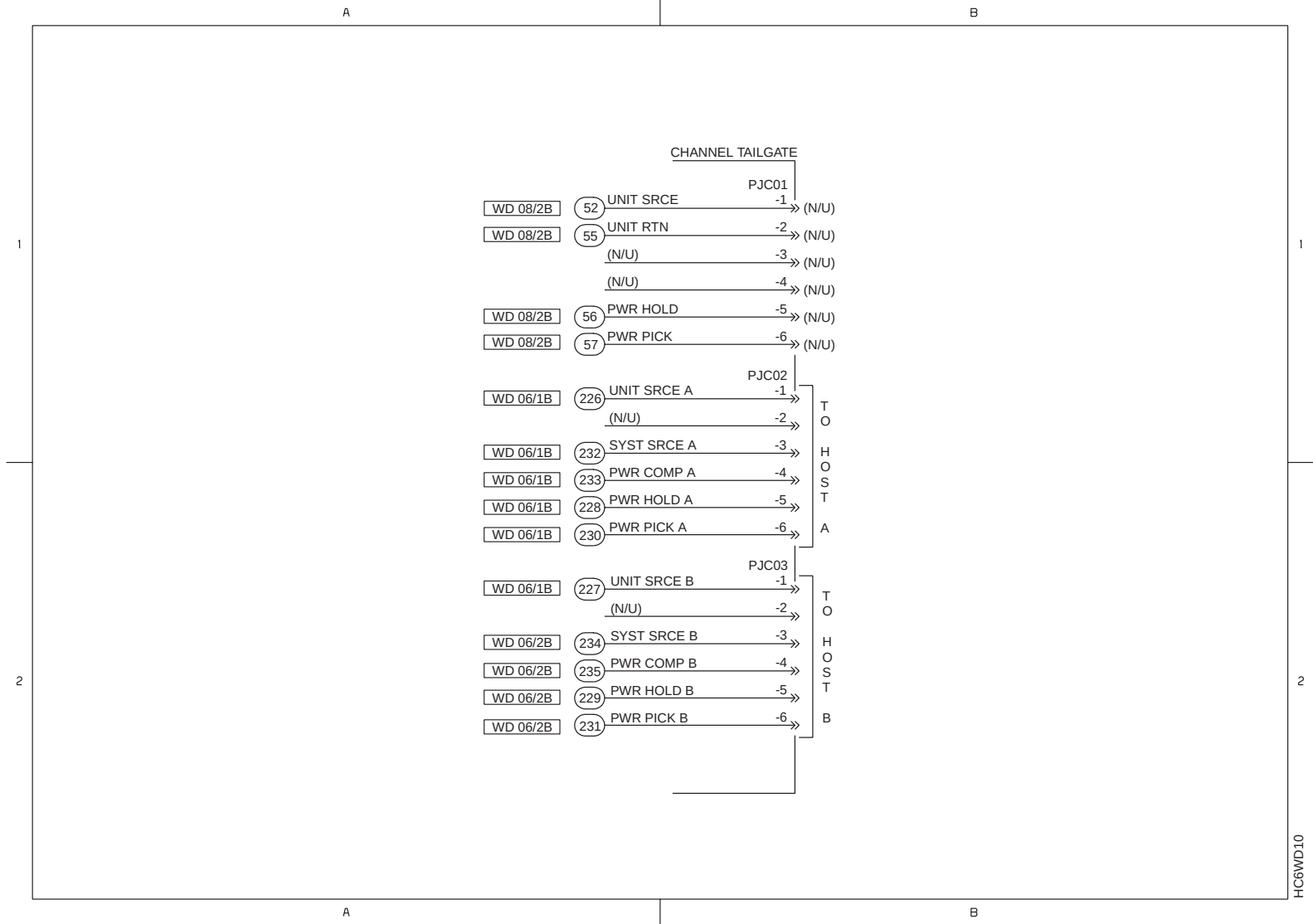
WD08 - Control Unit AC Control Box (Simplex)



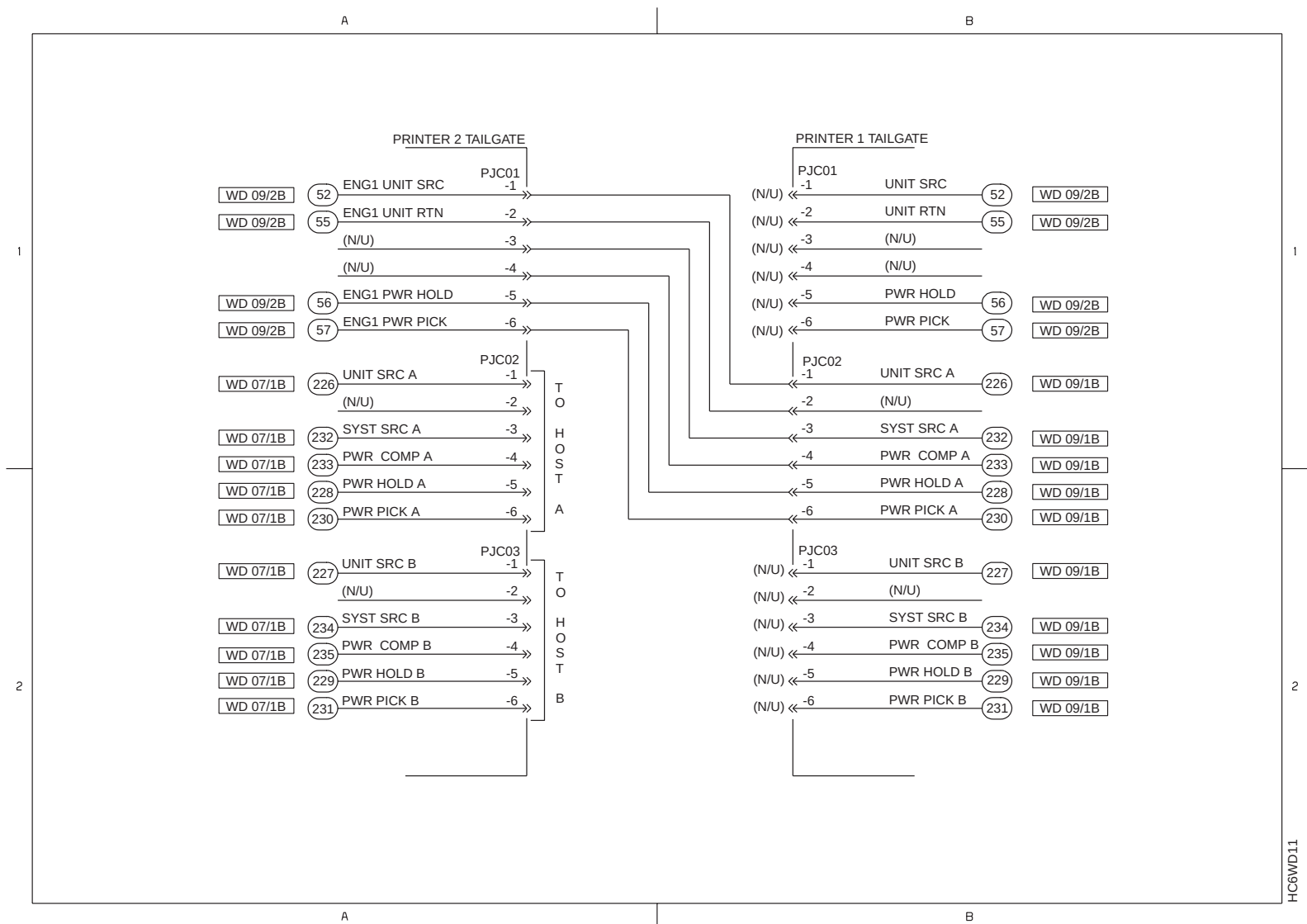
WD09 - Control Unit AC Control Box (Duplex)



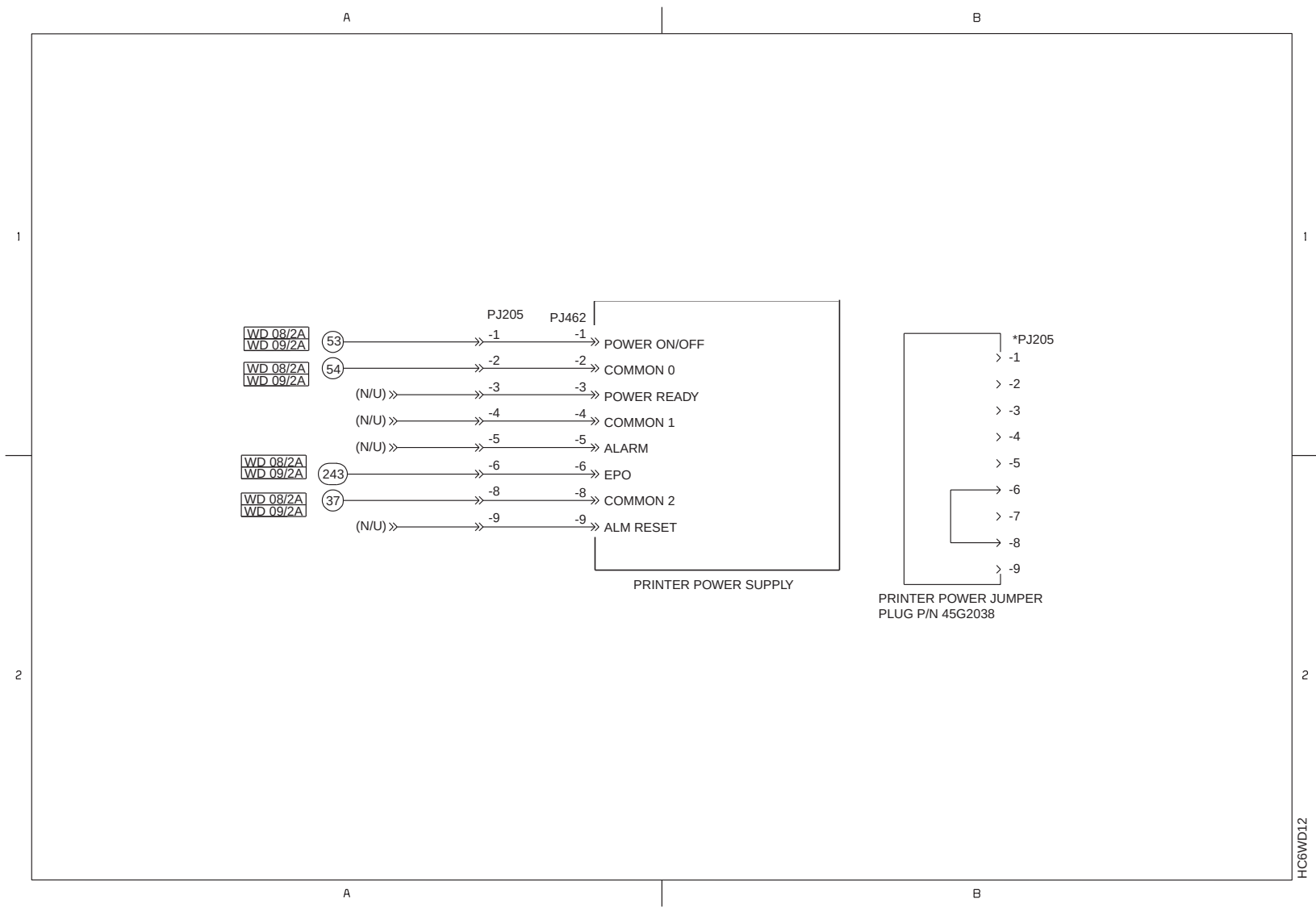
WD10 - AC Power Control (Simplex)



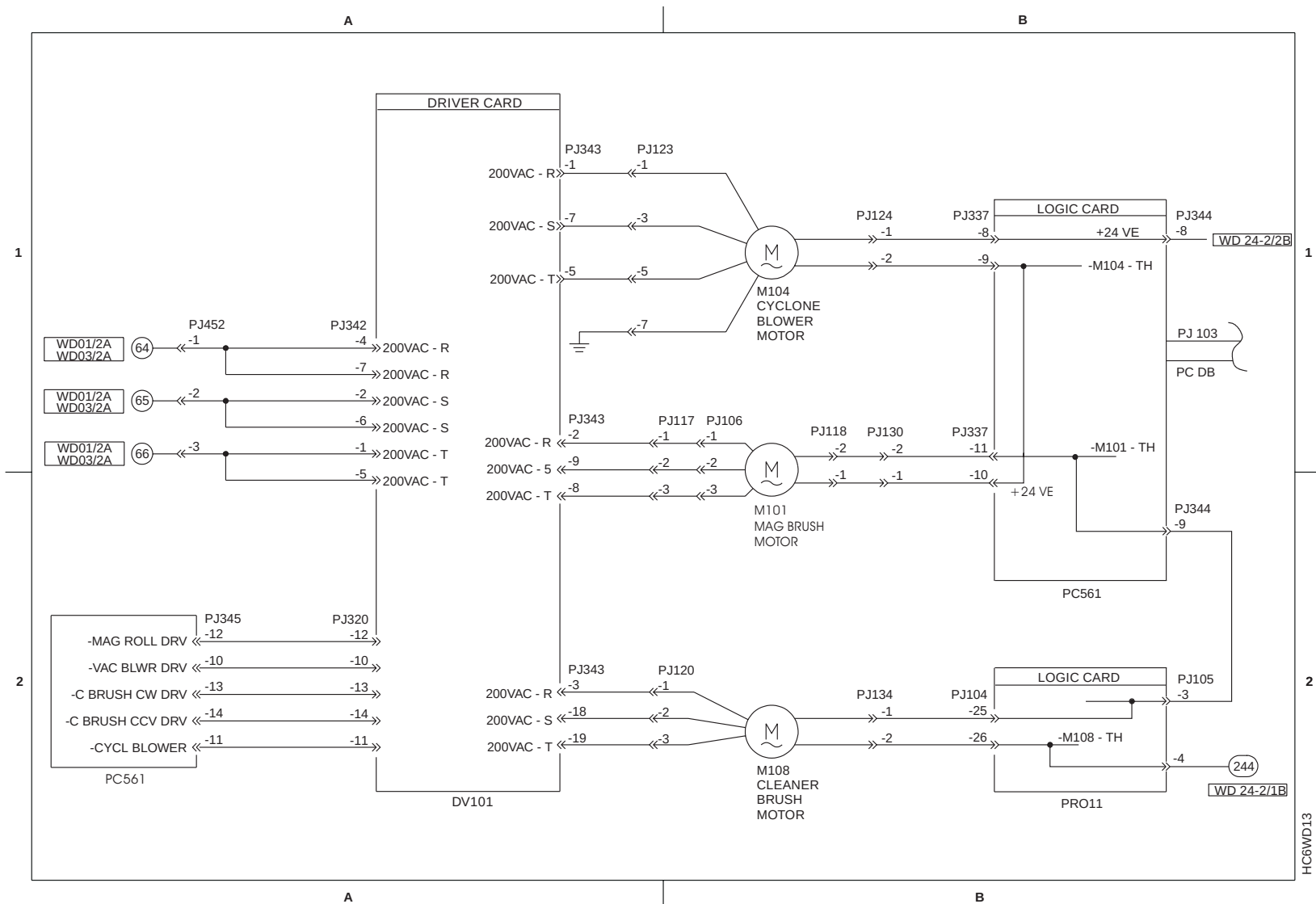
WD11 - AC Power Control (Duplex)



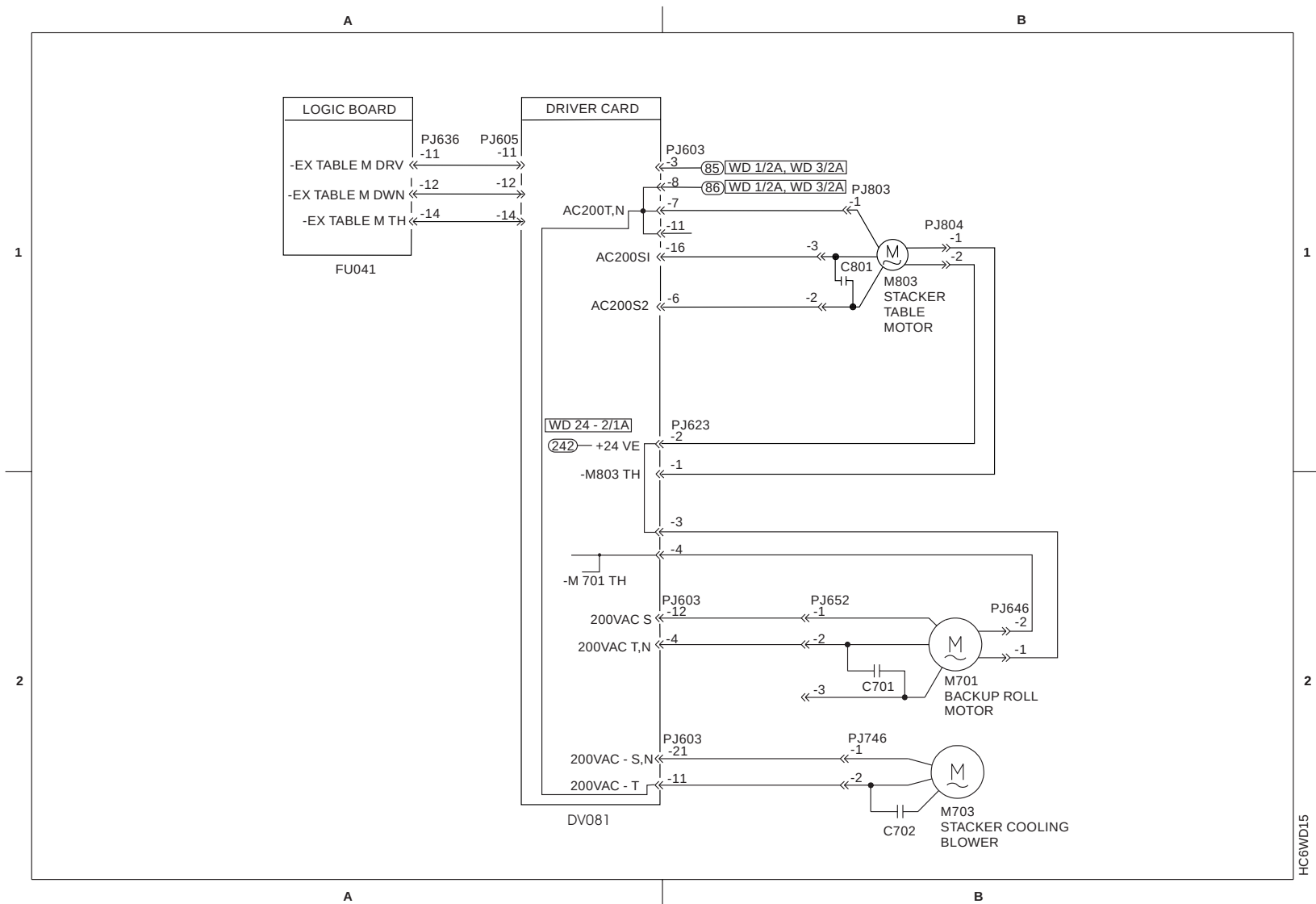
WD12 - Printer Power Supply - Power On/Off



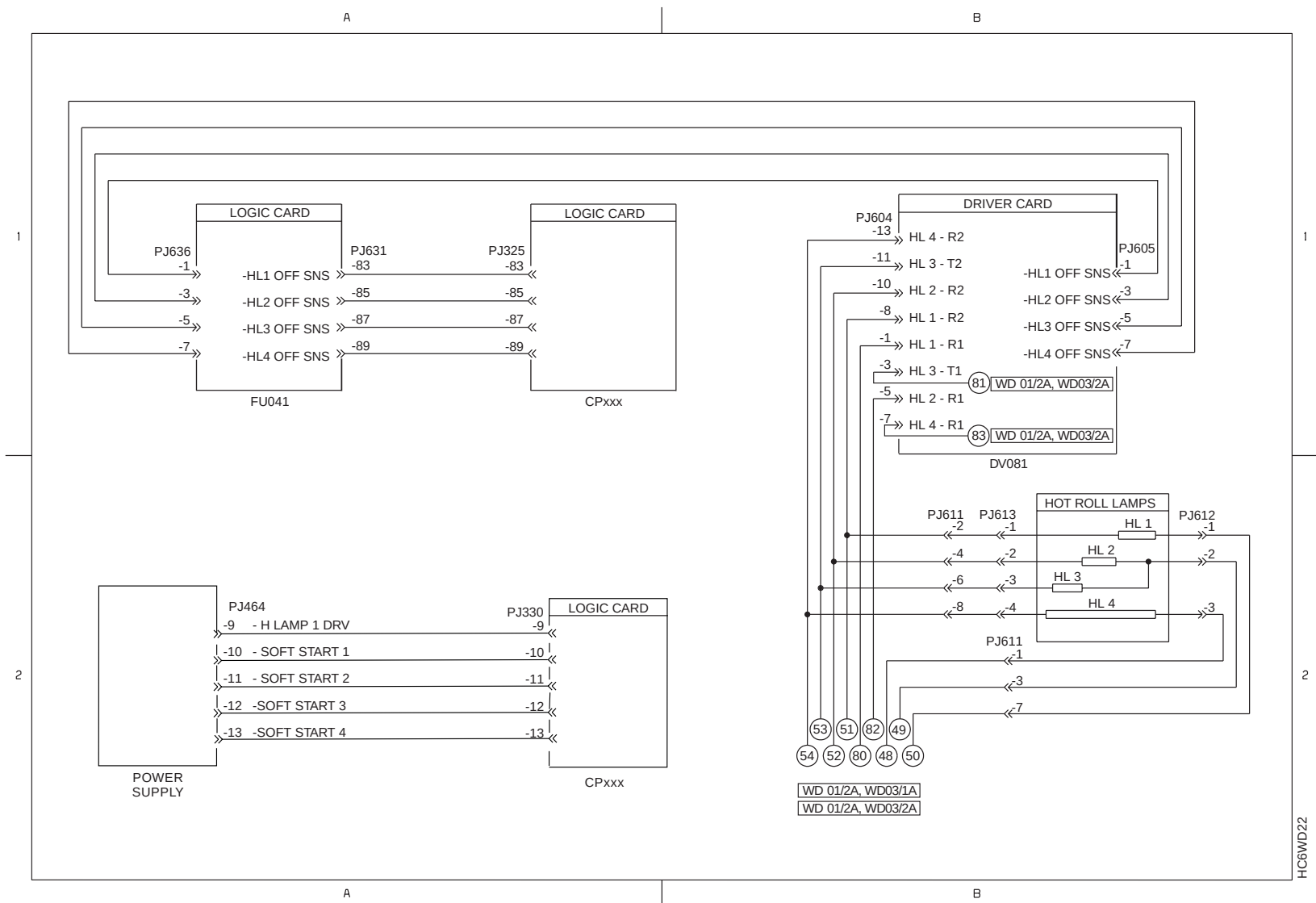
WD13 - AC Motors M101, M104 & M108



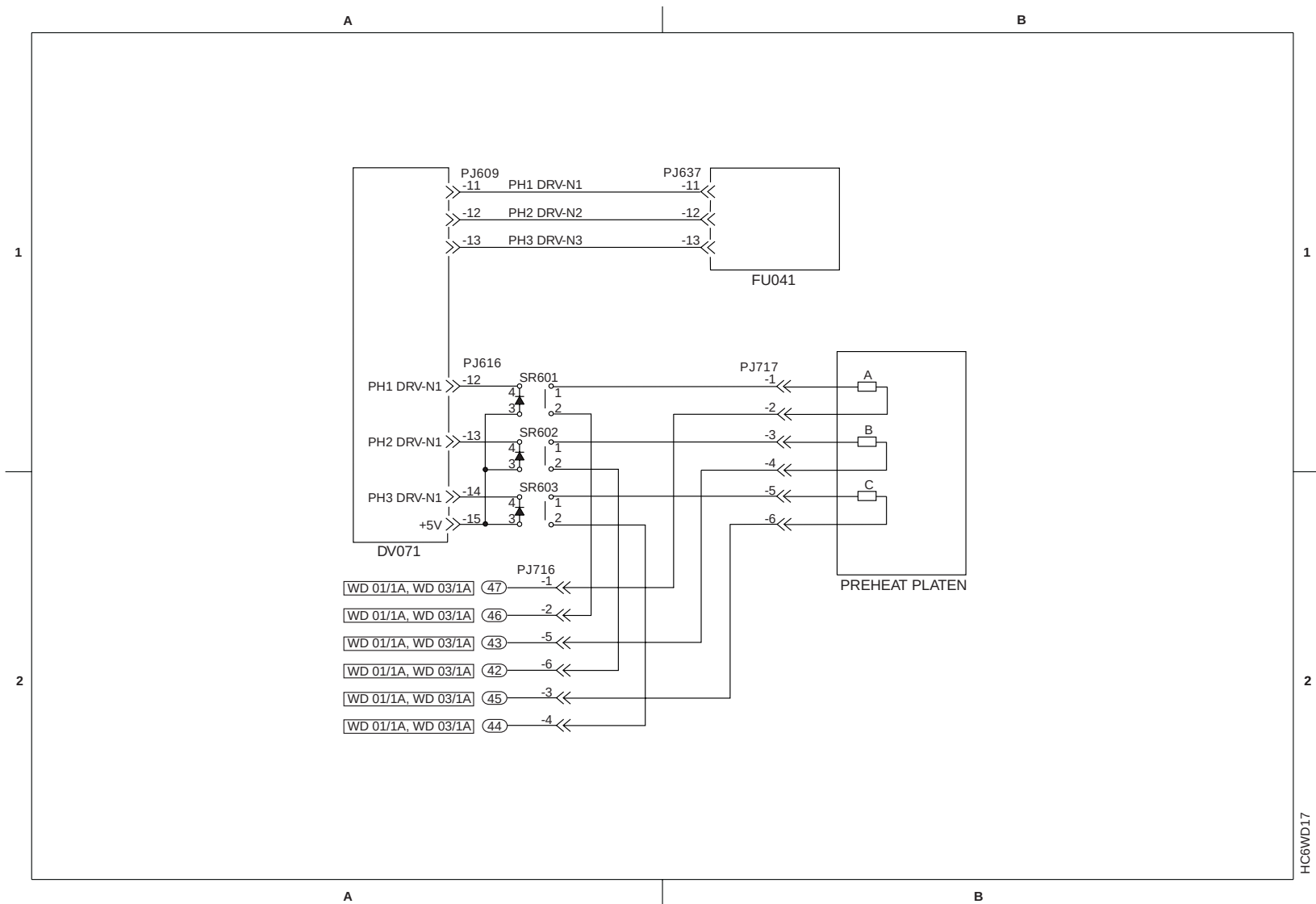
WD15 - AC Motors M701, M703, M803



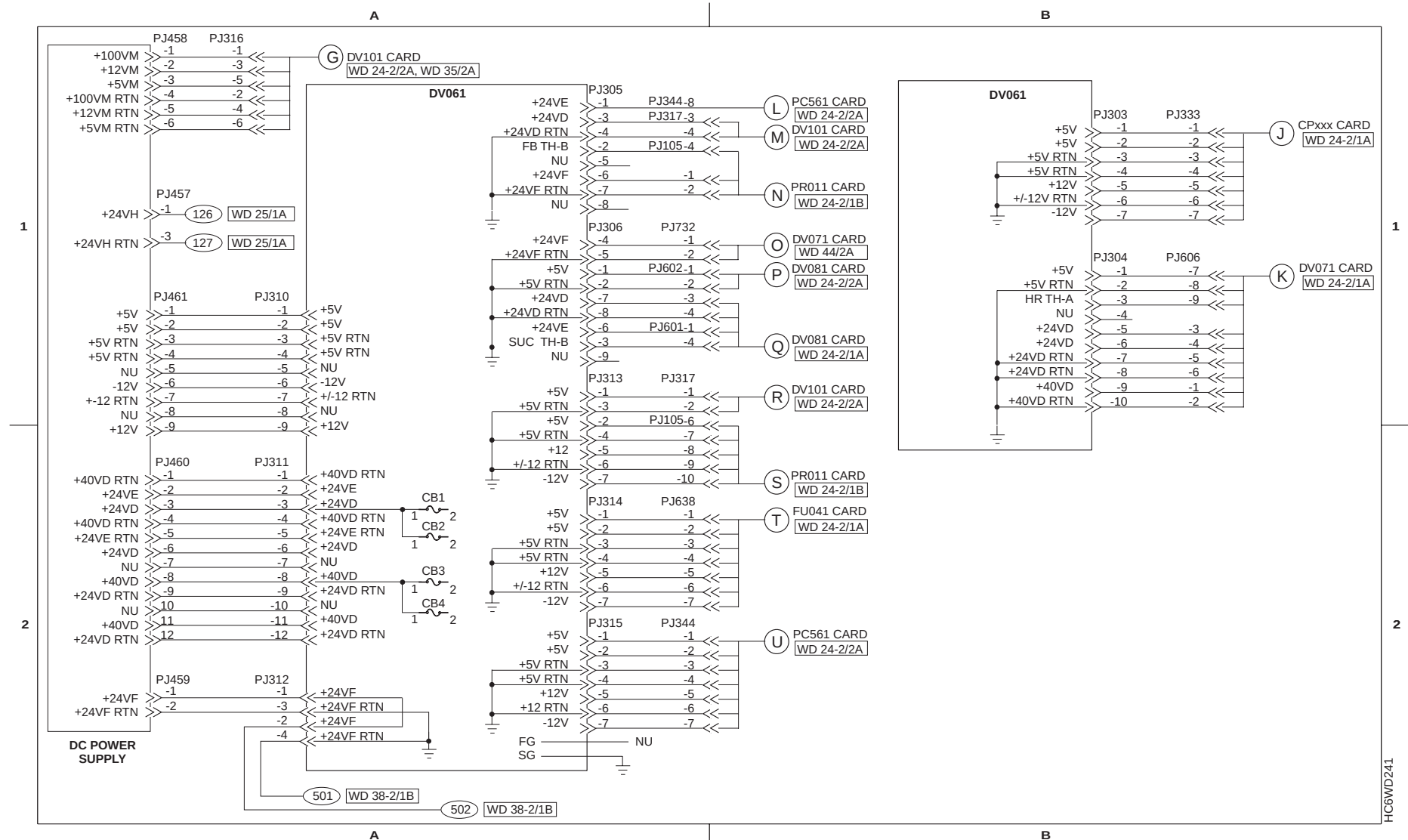
WD16 - AC Distribution To Hot Roll Lamps



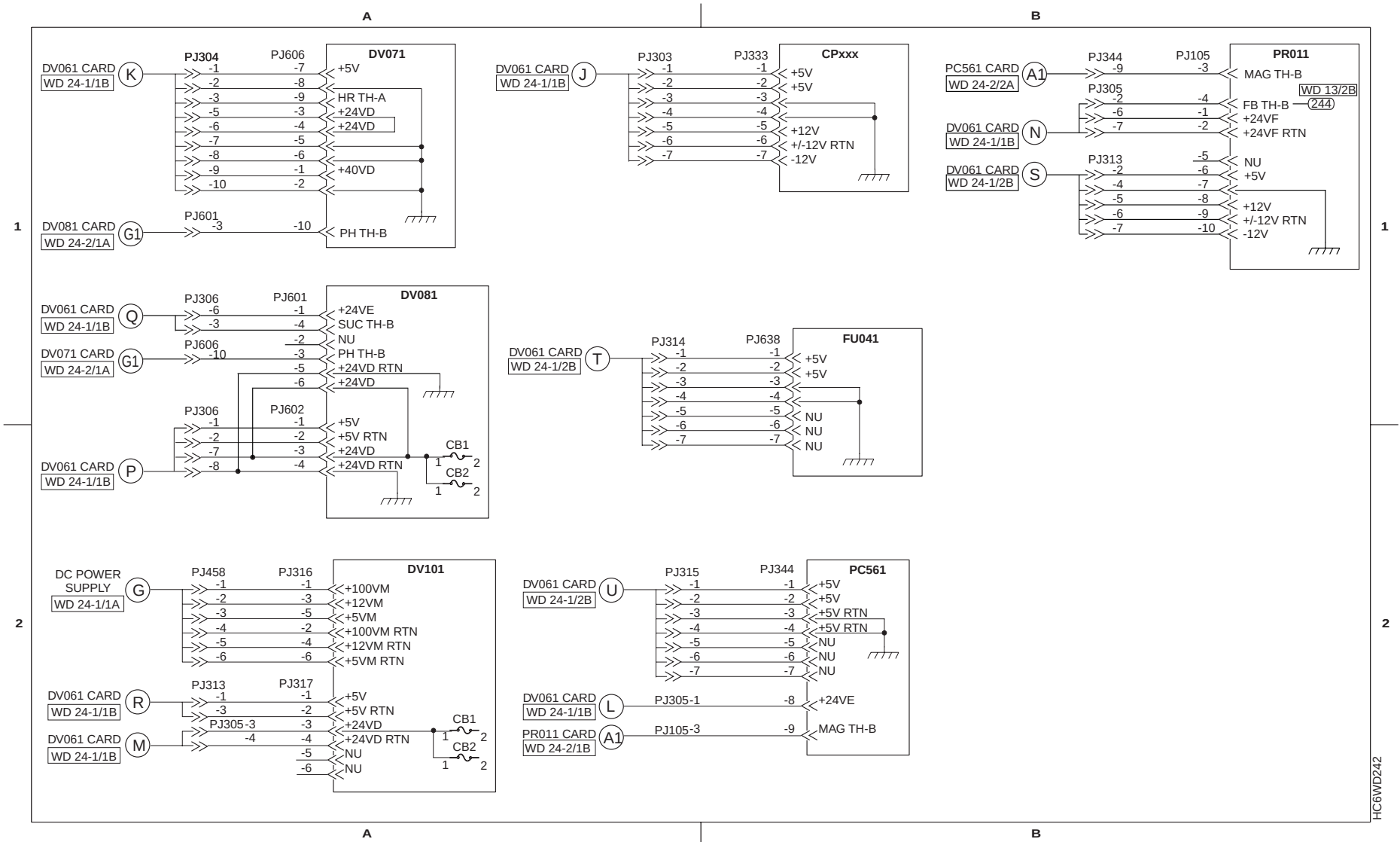
WD17 - AC Distribution To Preheat Platen



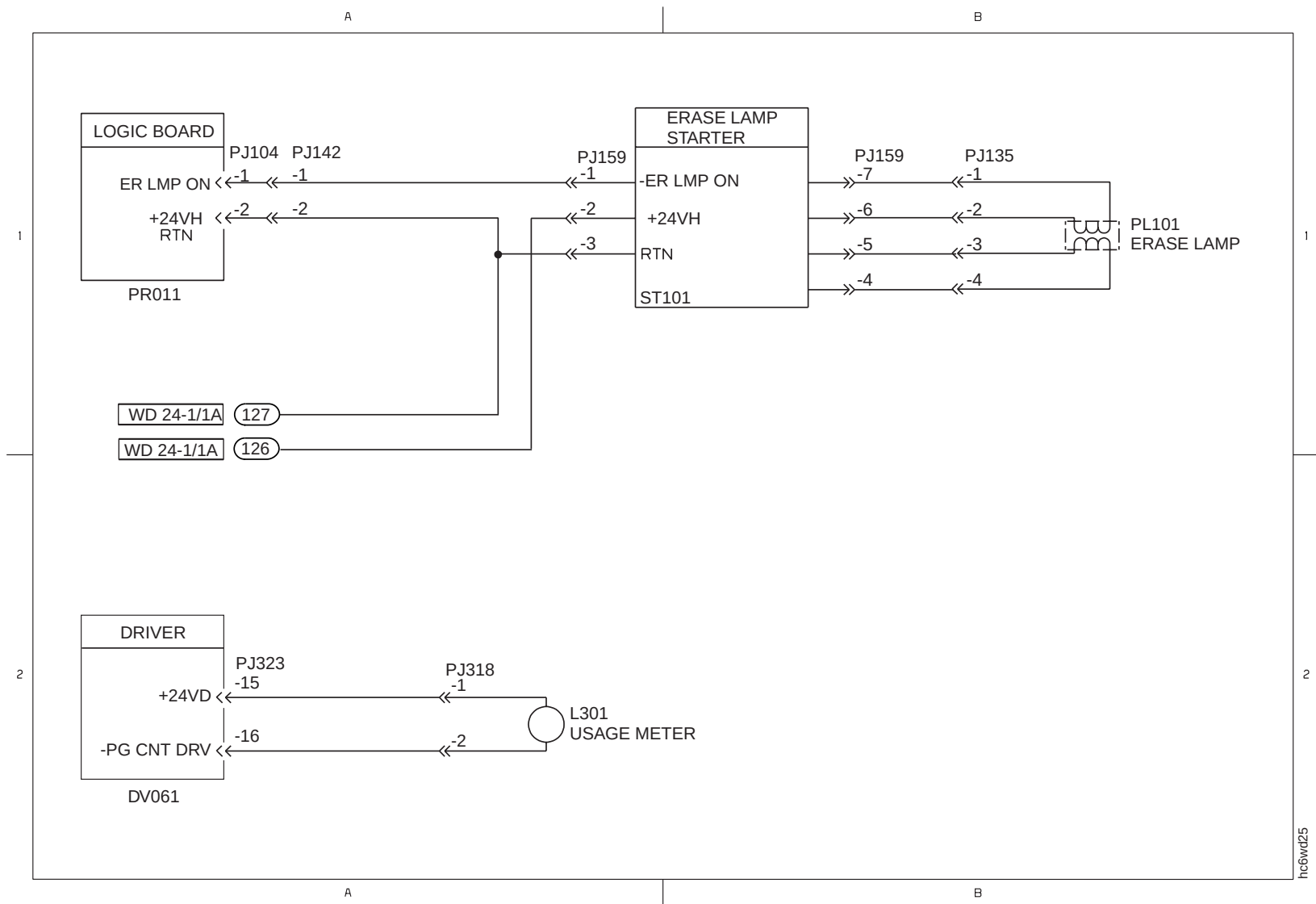
WD24-1 - Printer DC Power Distribution



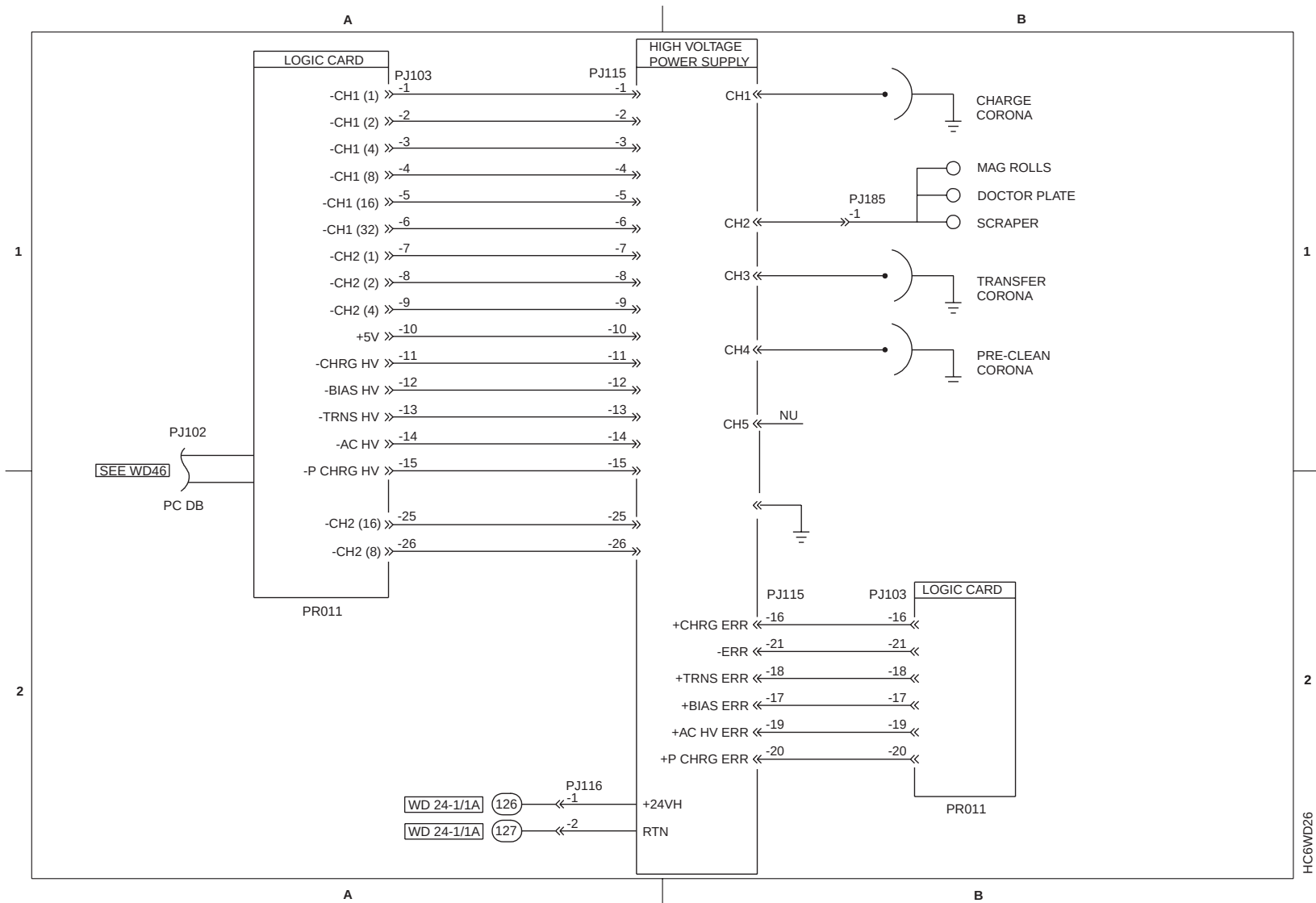
WD24-2 - Printer DC Power Distribution



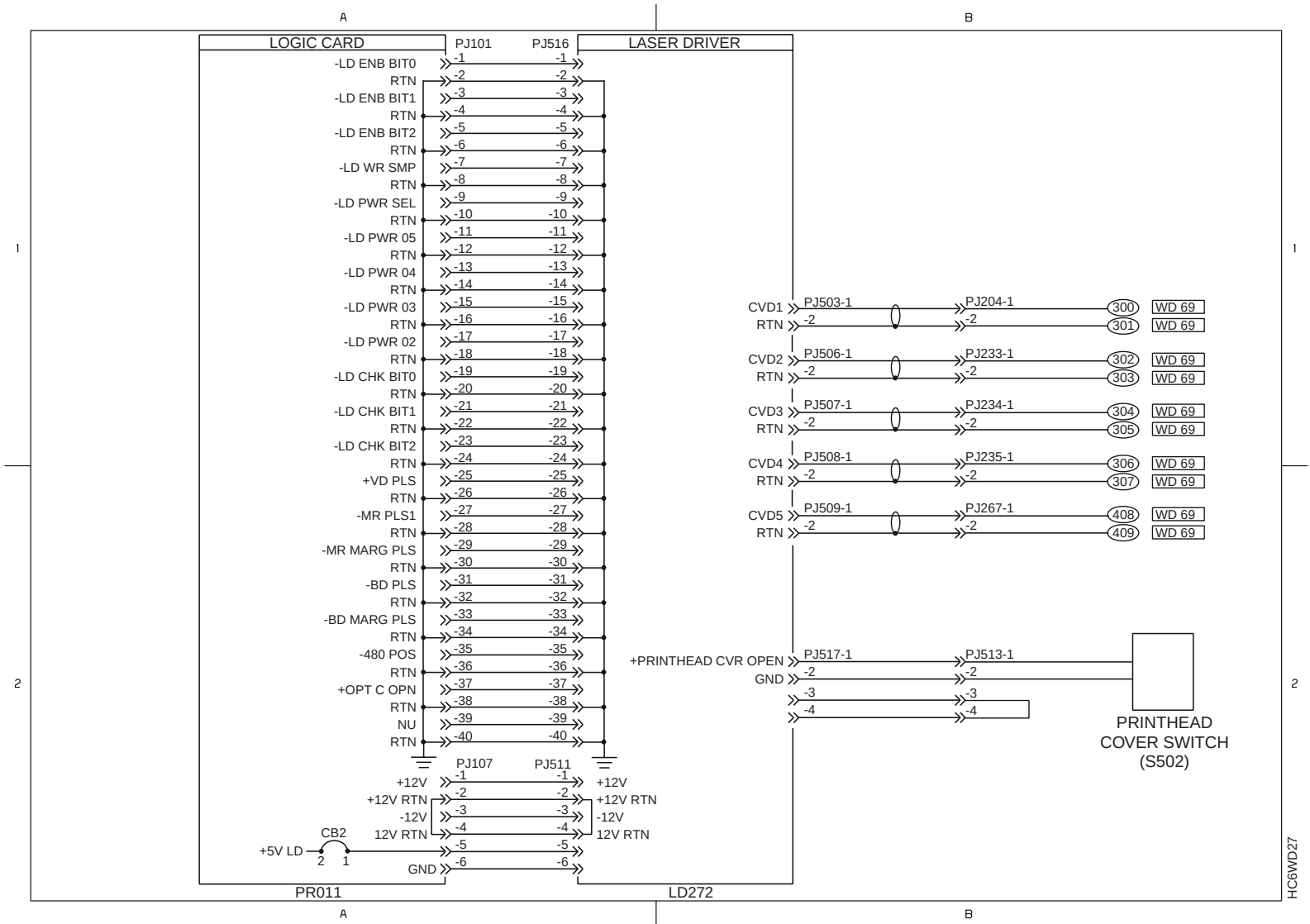
WD25 - Erase Lamp (PL101) and Usage Meter



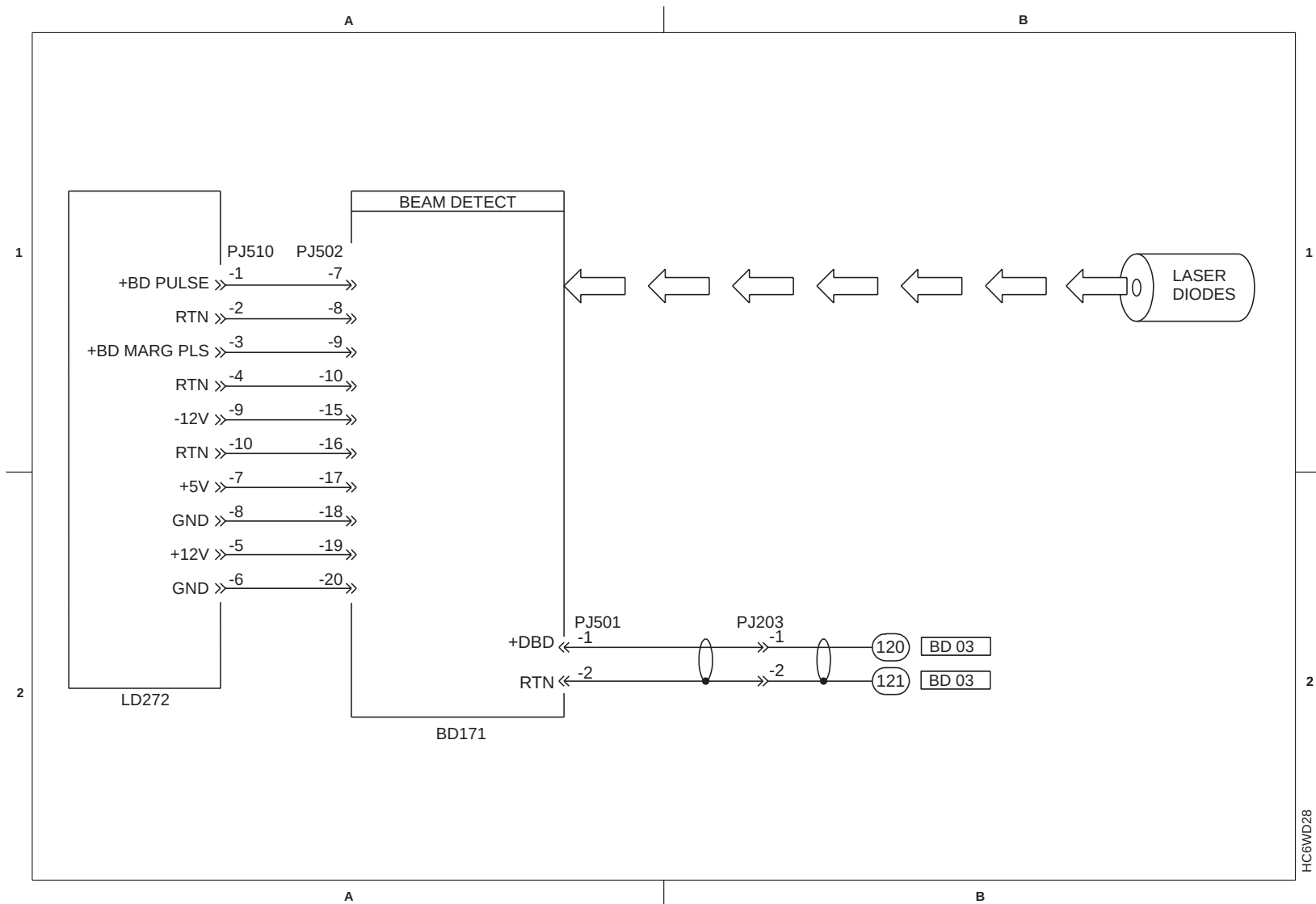
WD26 - High Voltage to Coronas & Mag Brush Rolls



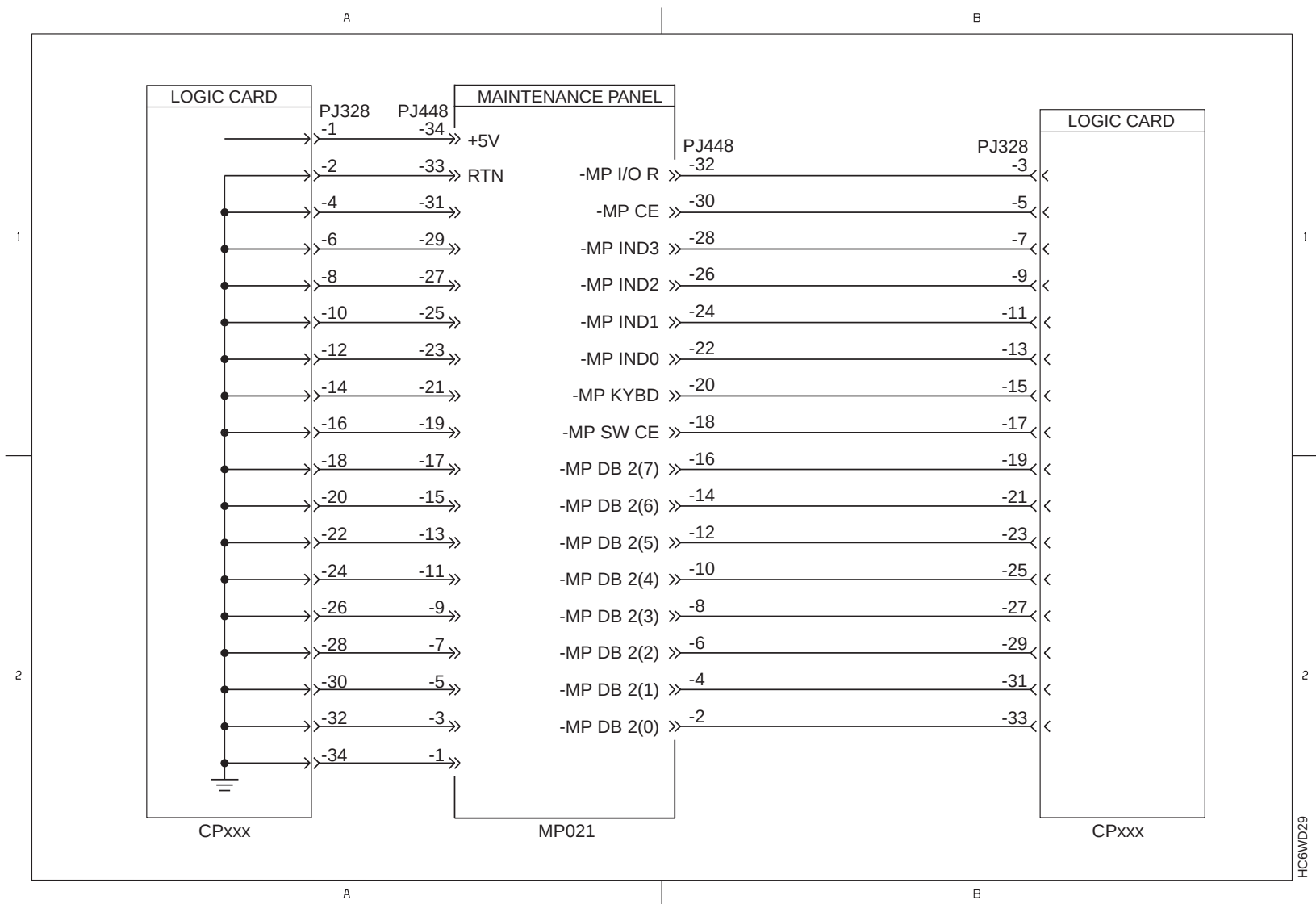
WD27 - Laser Driver



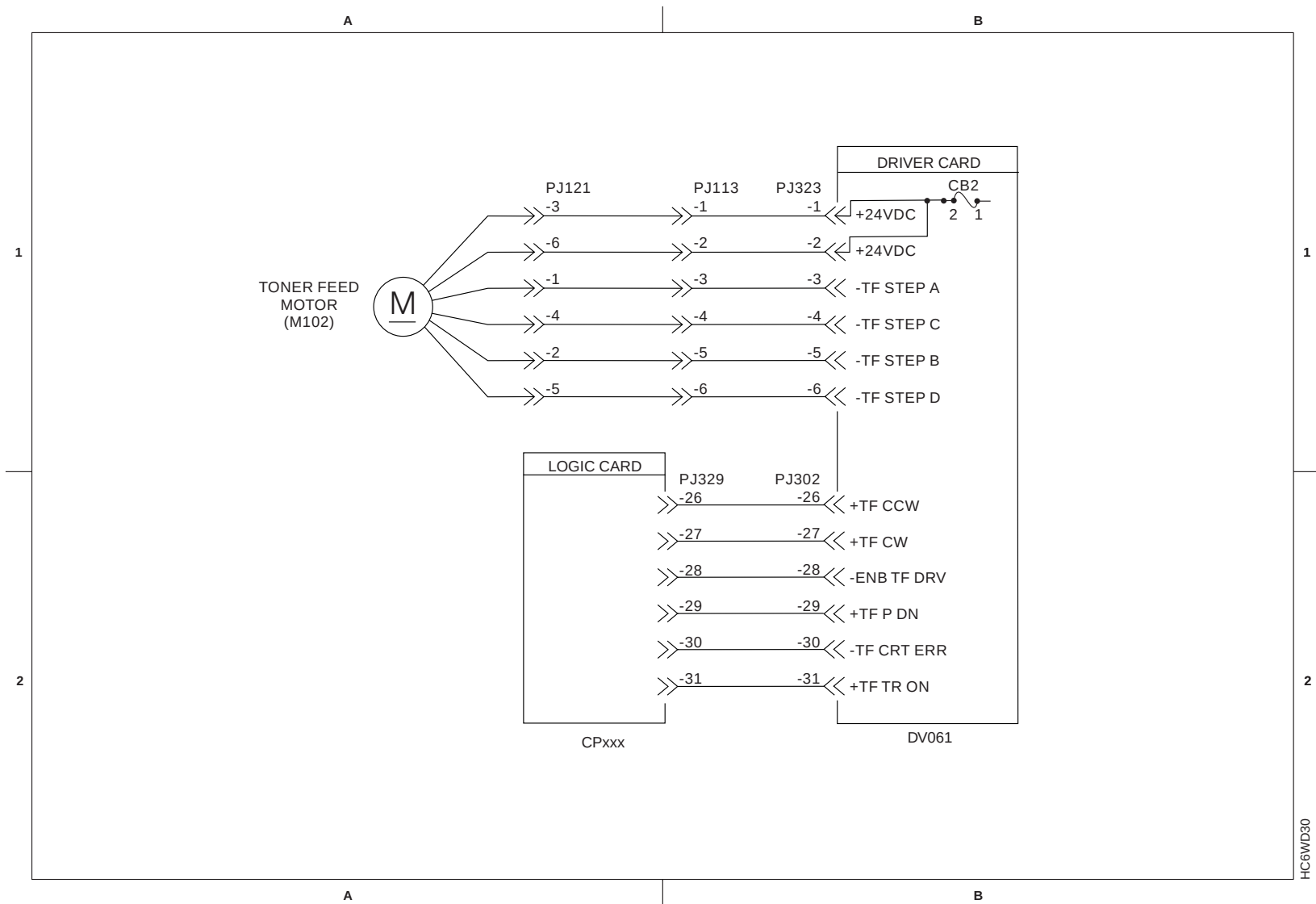
WD28 - Beam Detect



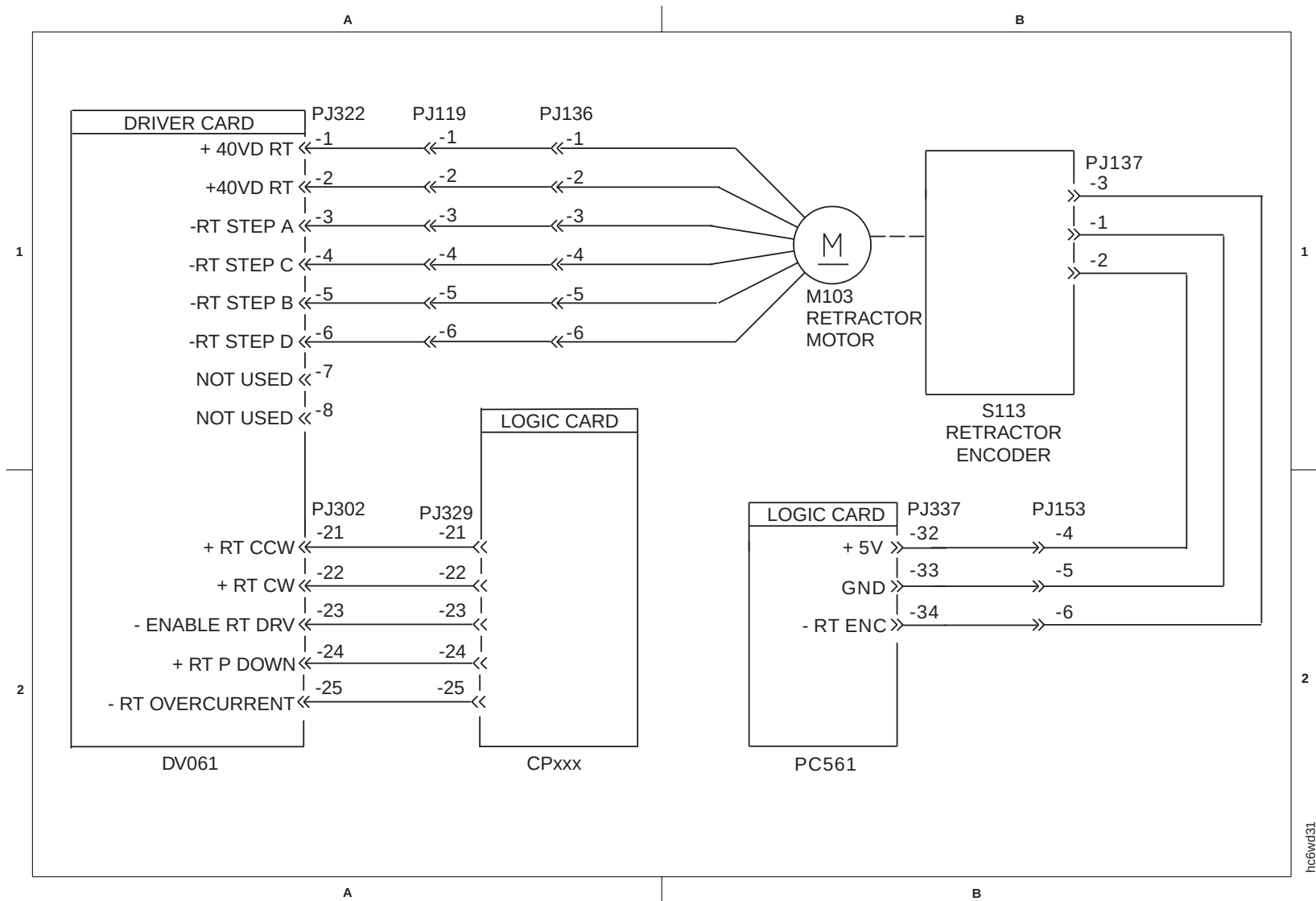
WD29 - Maintenance Panel



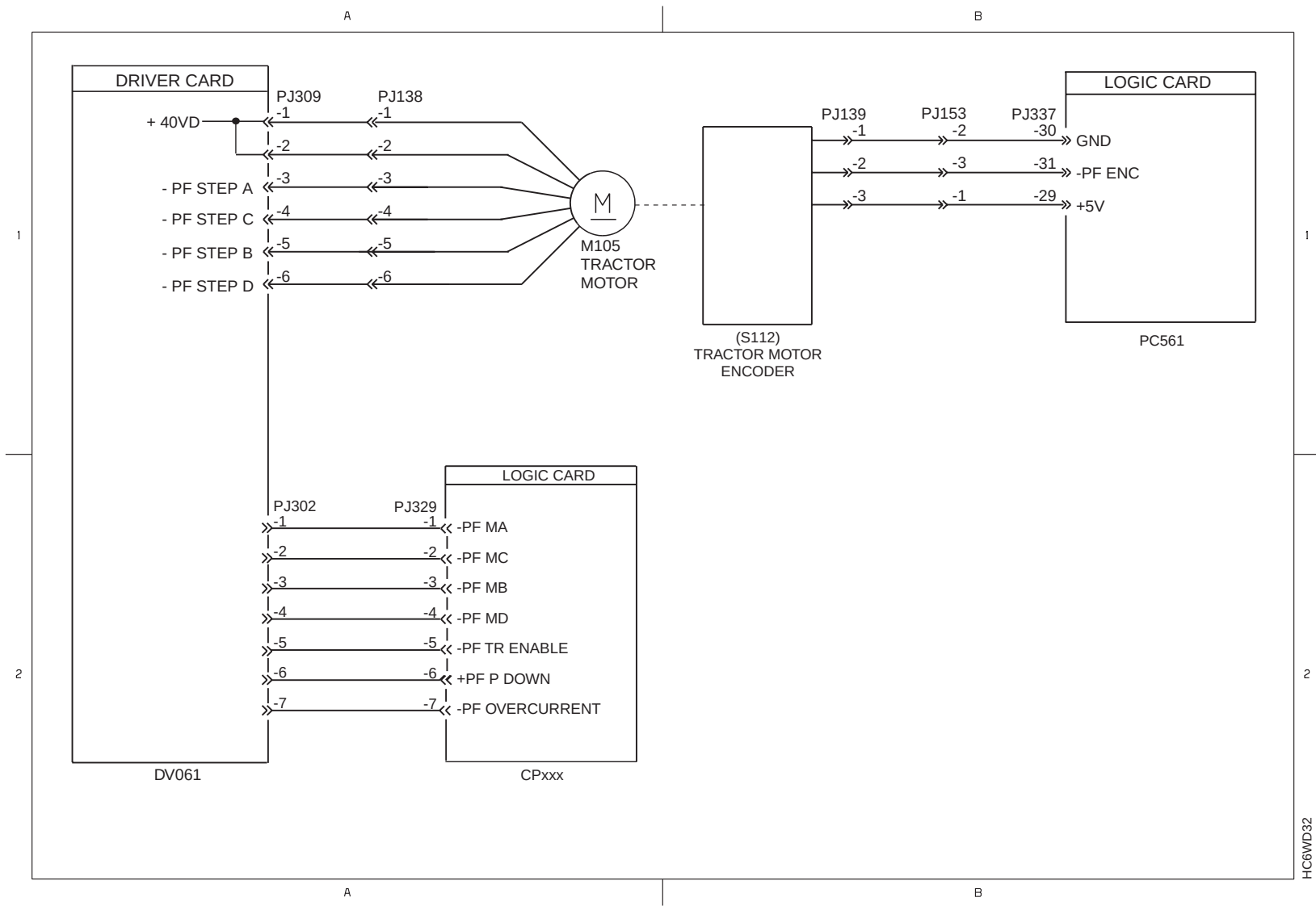
WD30 - Toner Feed Motor (M102)



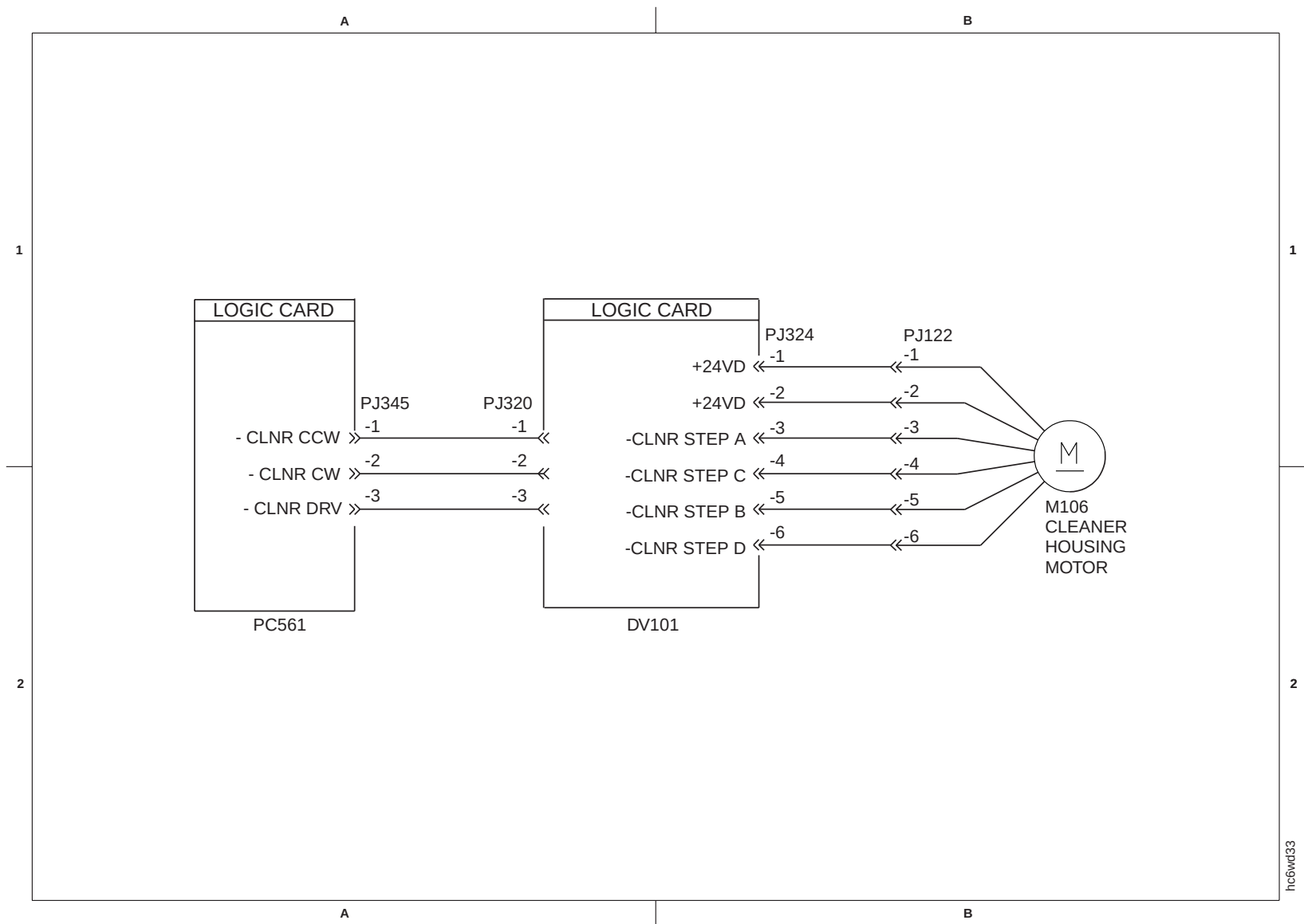
WD31 - Retractor Motor (M103)



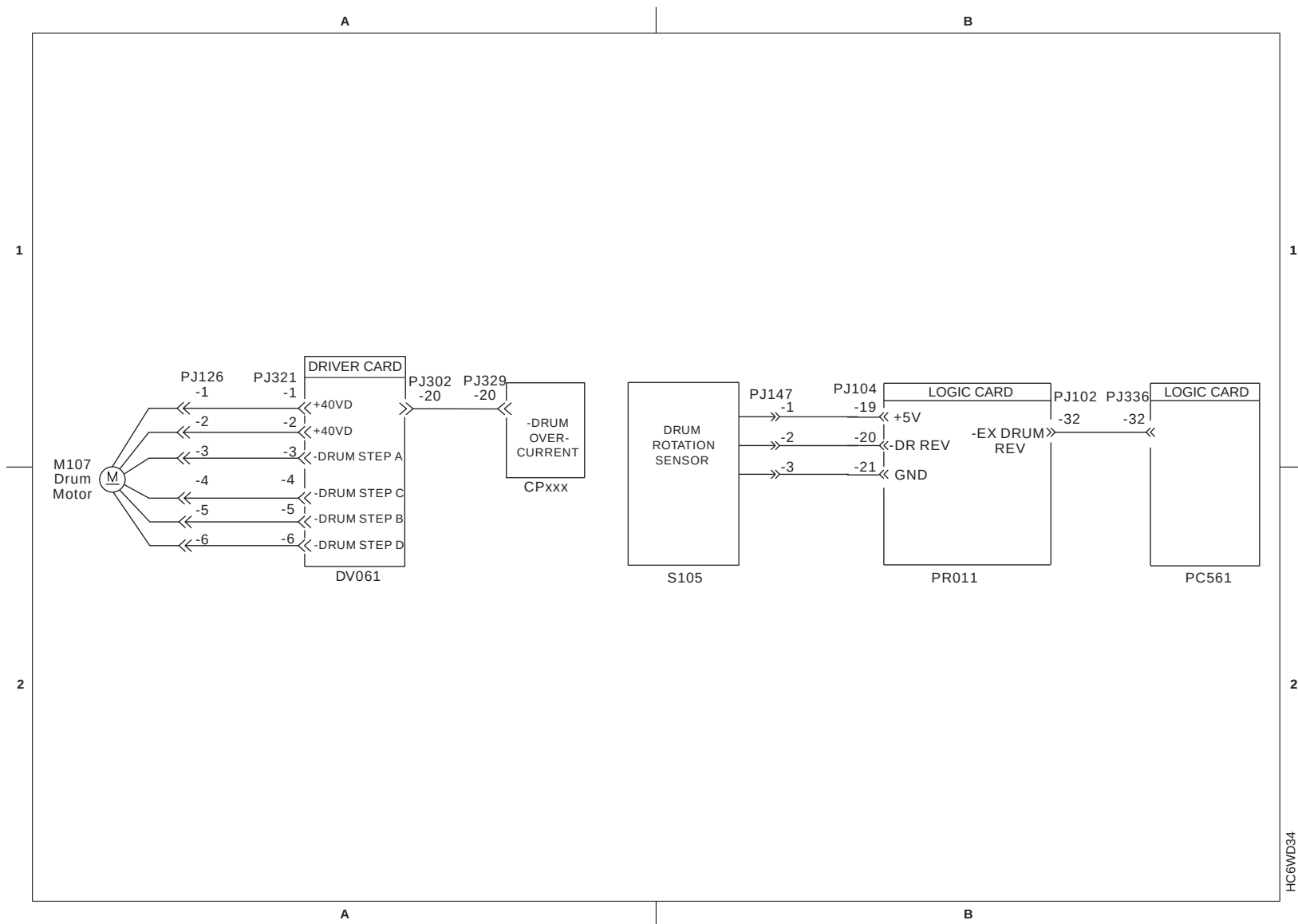
WD32 - Tractor Motor (M105)



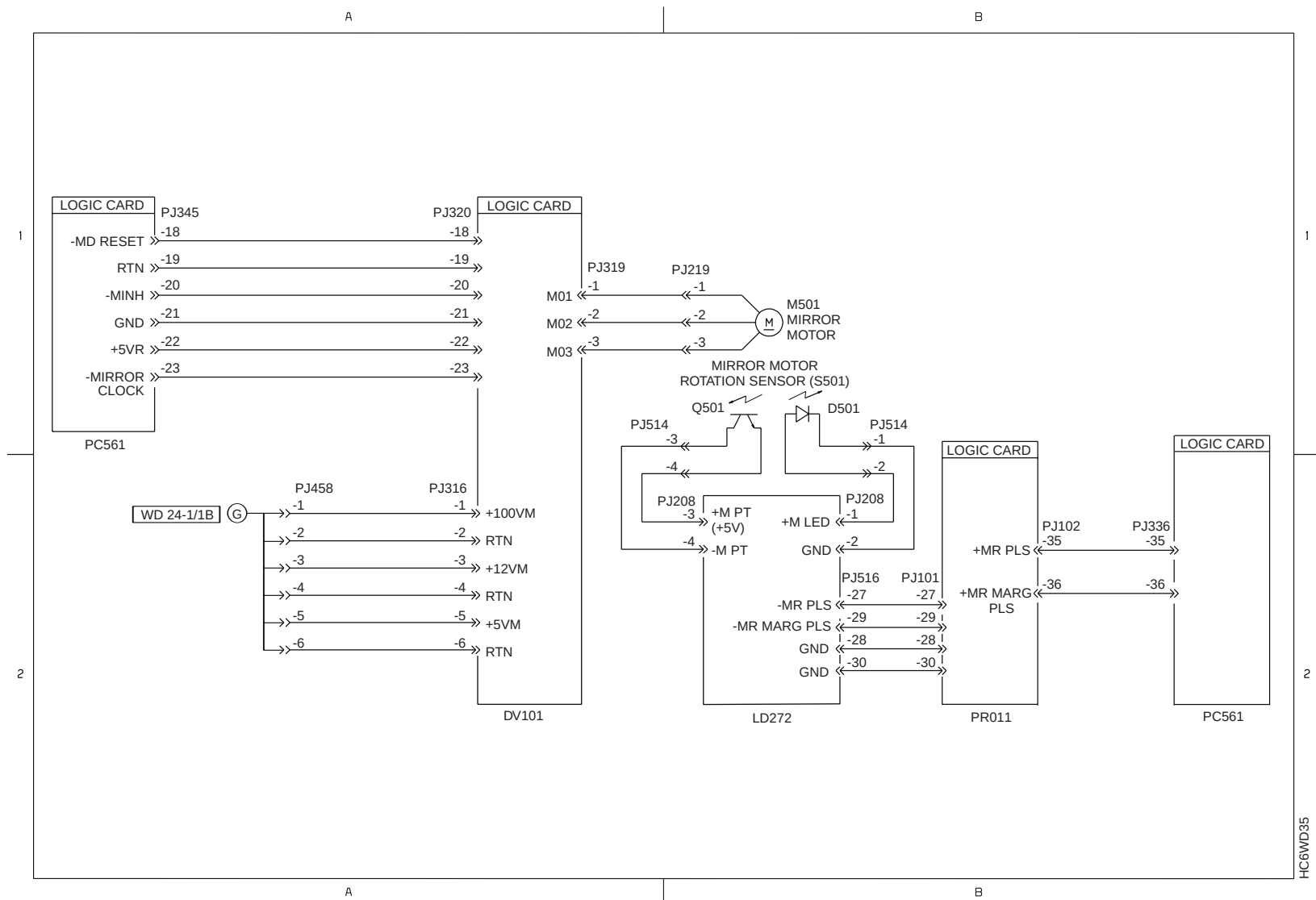
WD33 - Cleaner Housing Motor (M106)



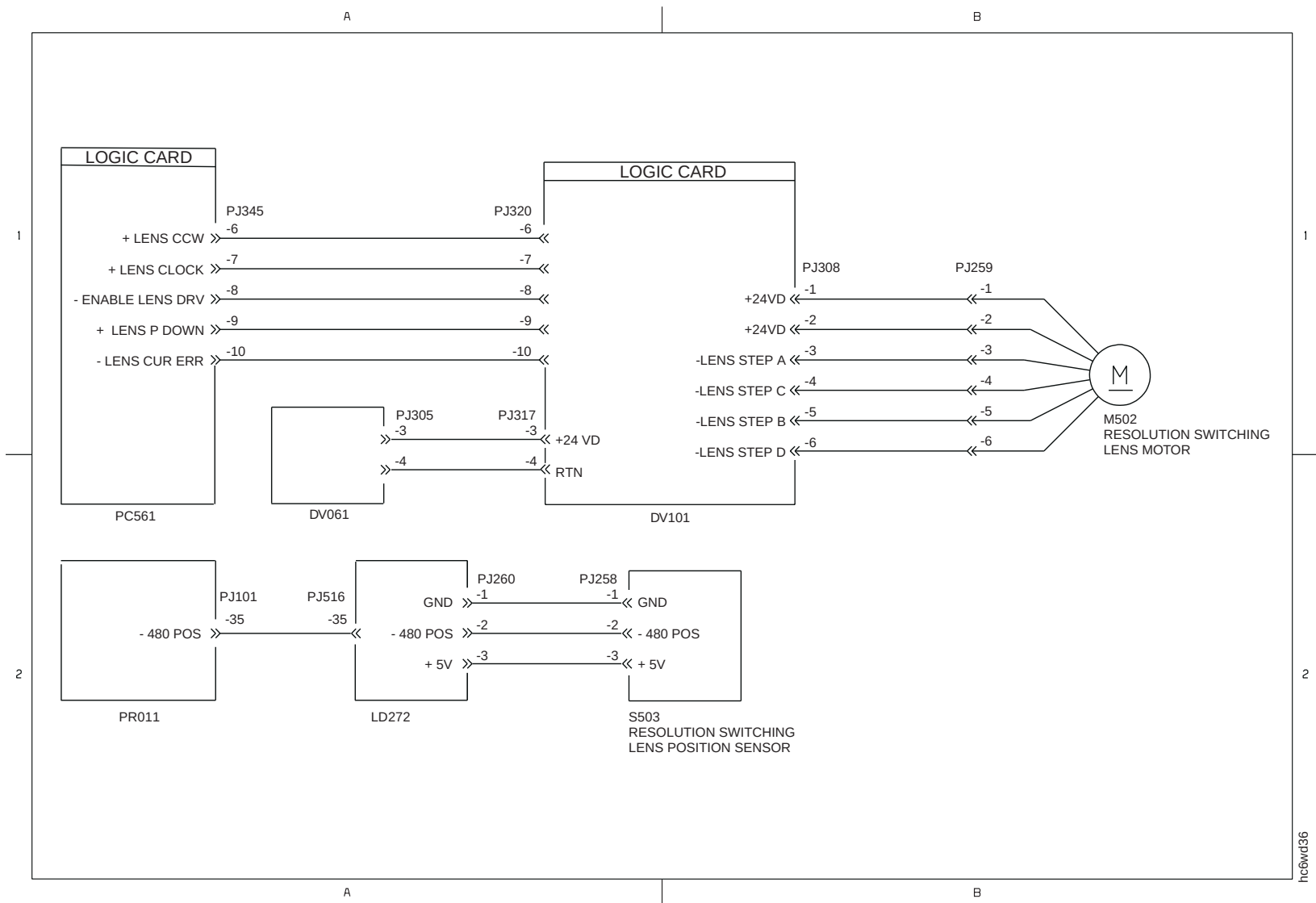
WD34 - Drum Motor (M107)



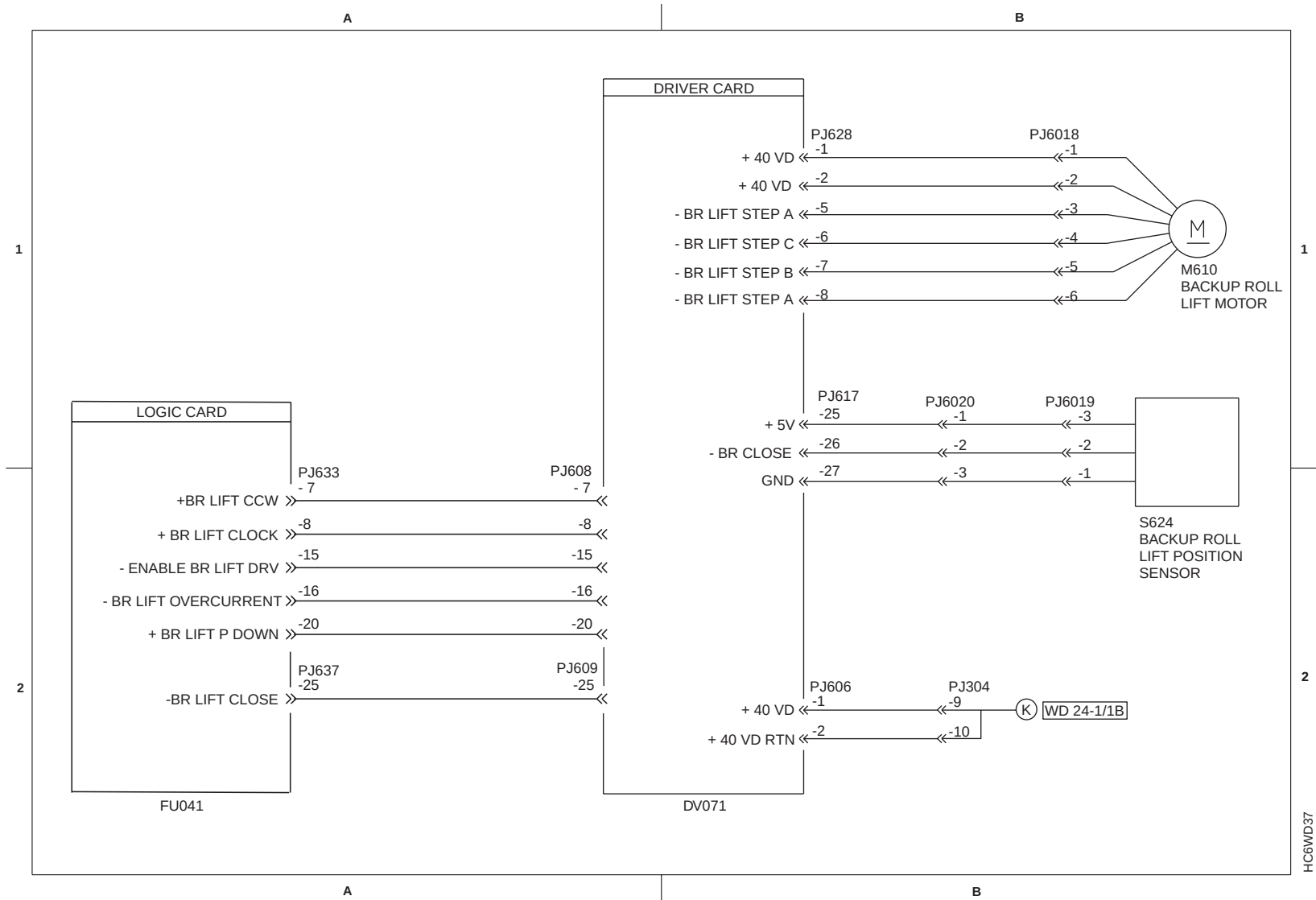
WD35 - Mirror Motor (M501)



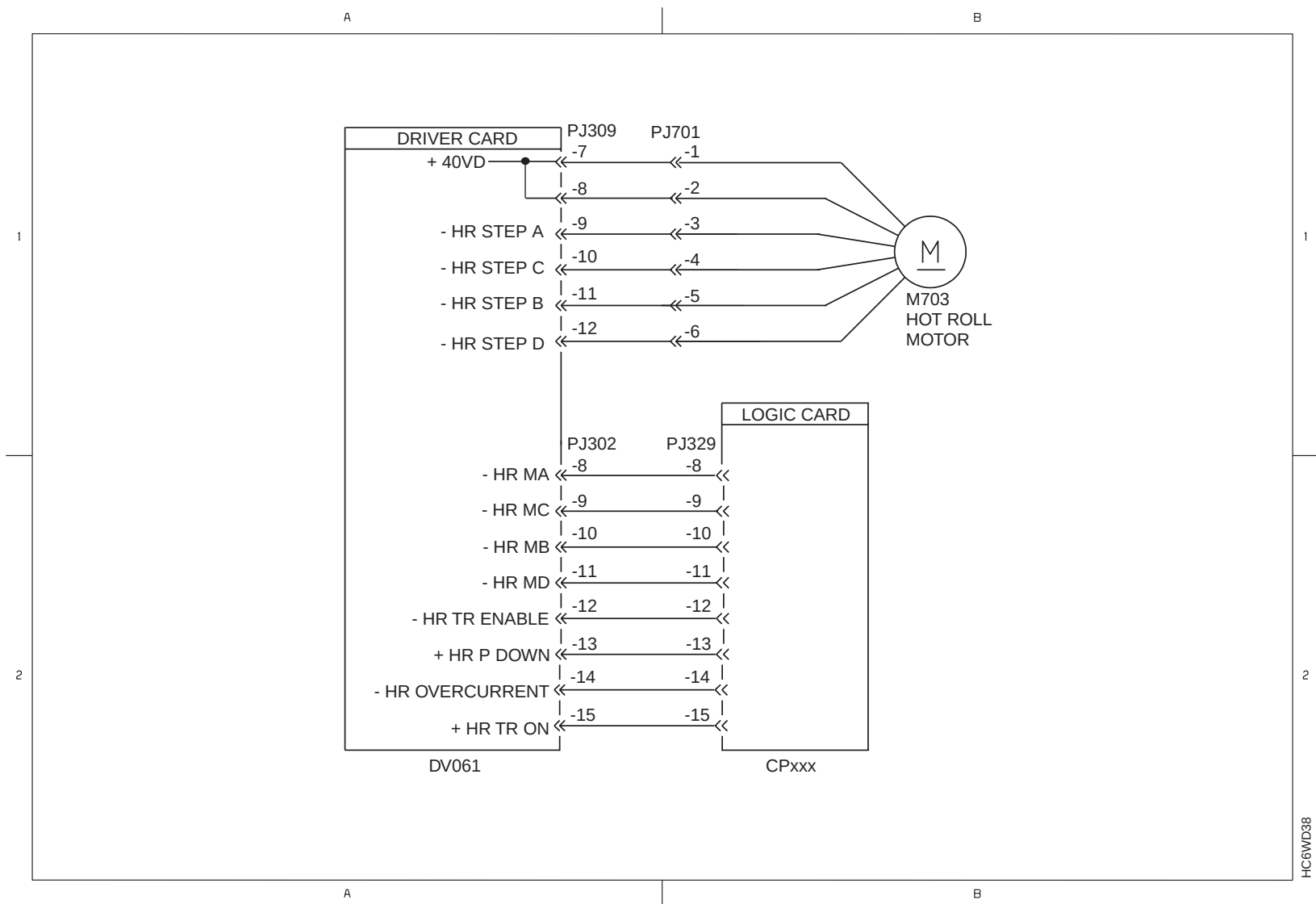
WD36 - Resolution Switching Lens Motor (M502)



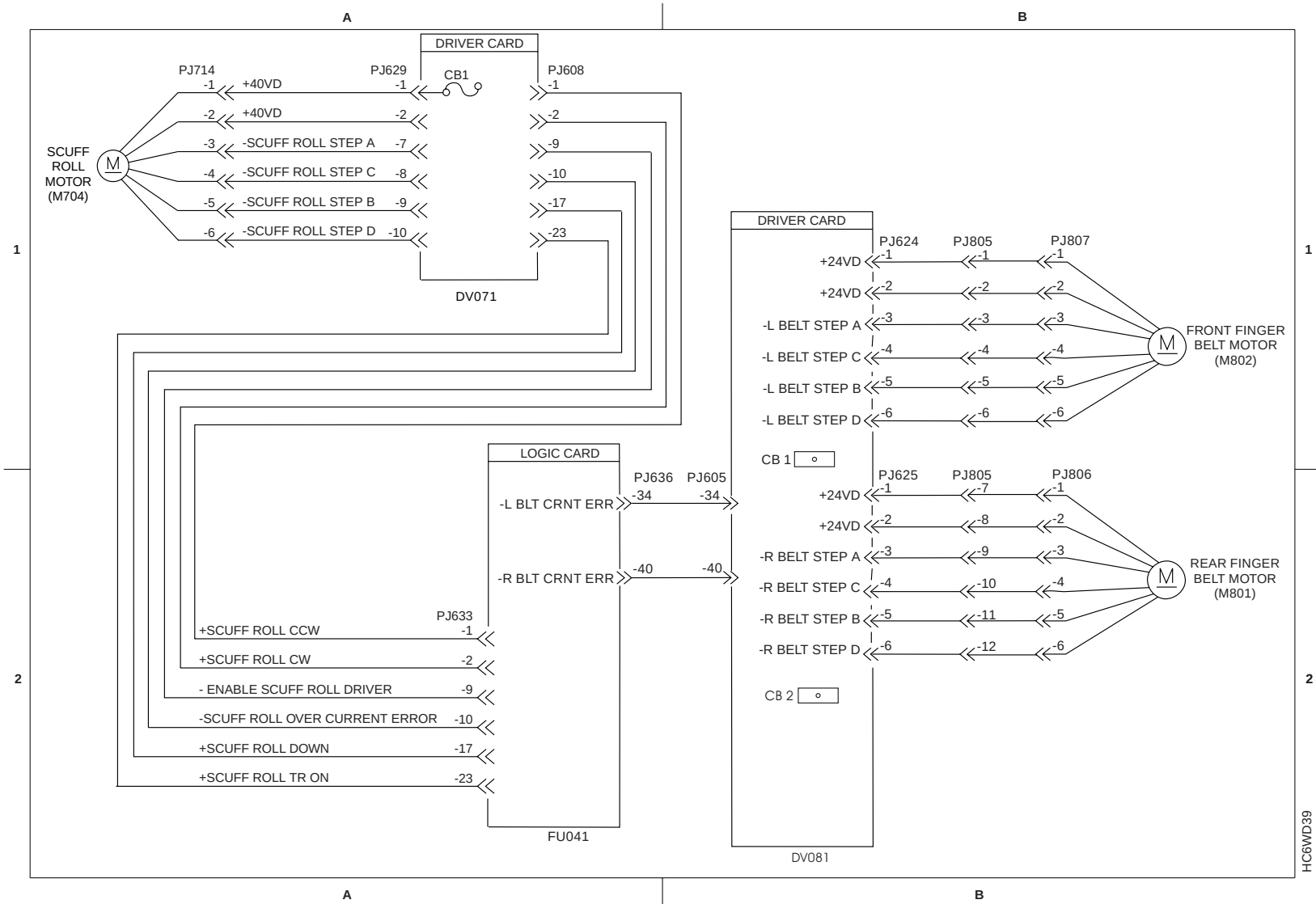
WD37 - Backup Roll Lift Motor (M610) & Sensor (S624)



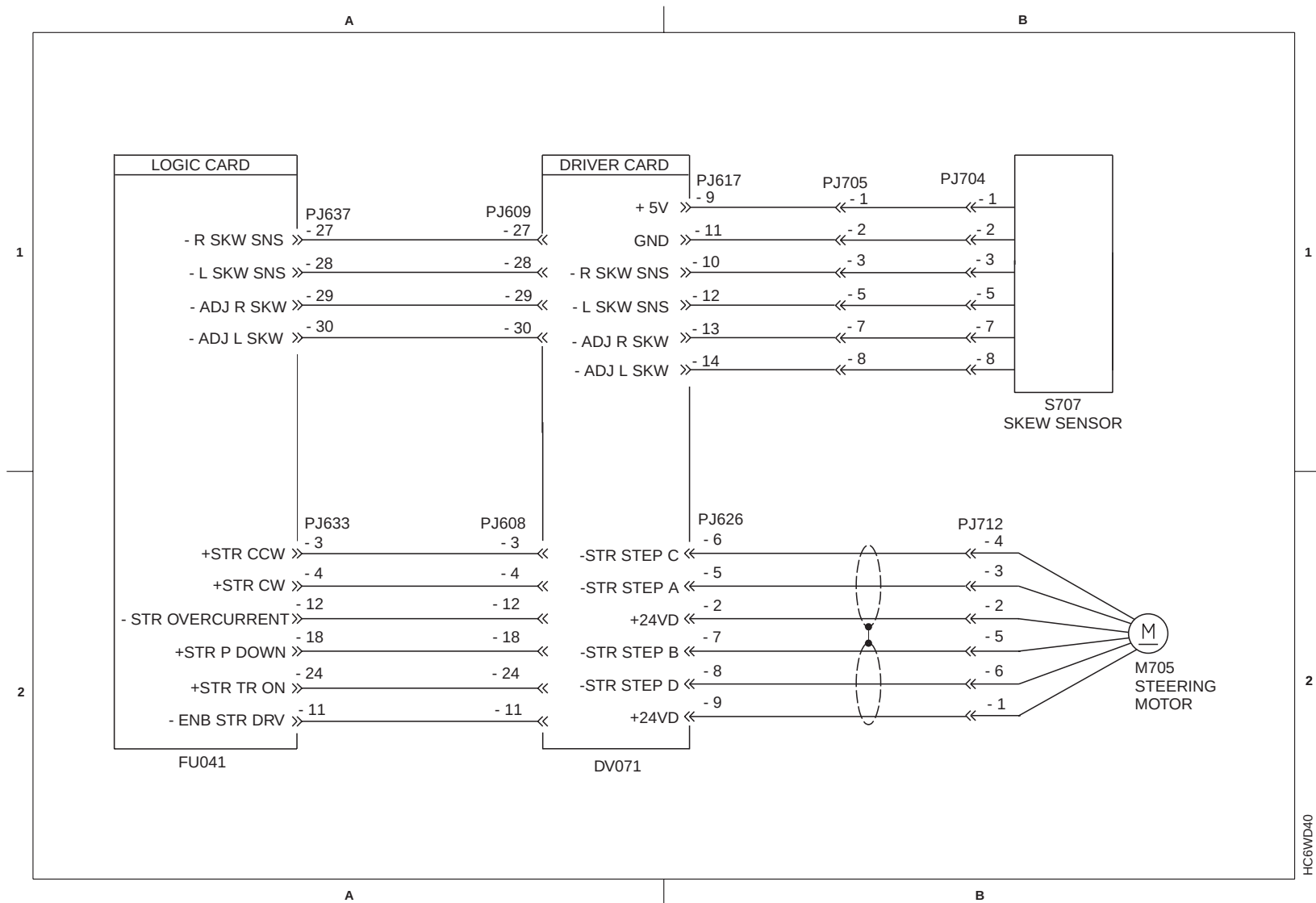
WD38 - Hot Roll Drive Motor (M703)



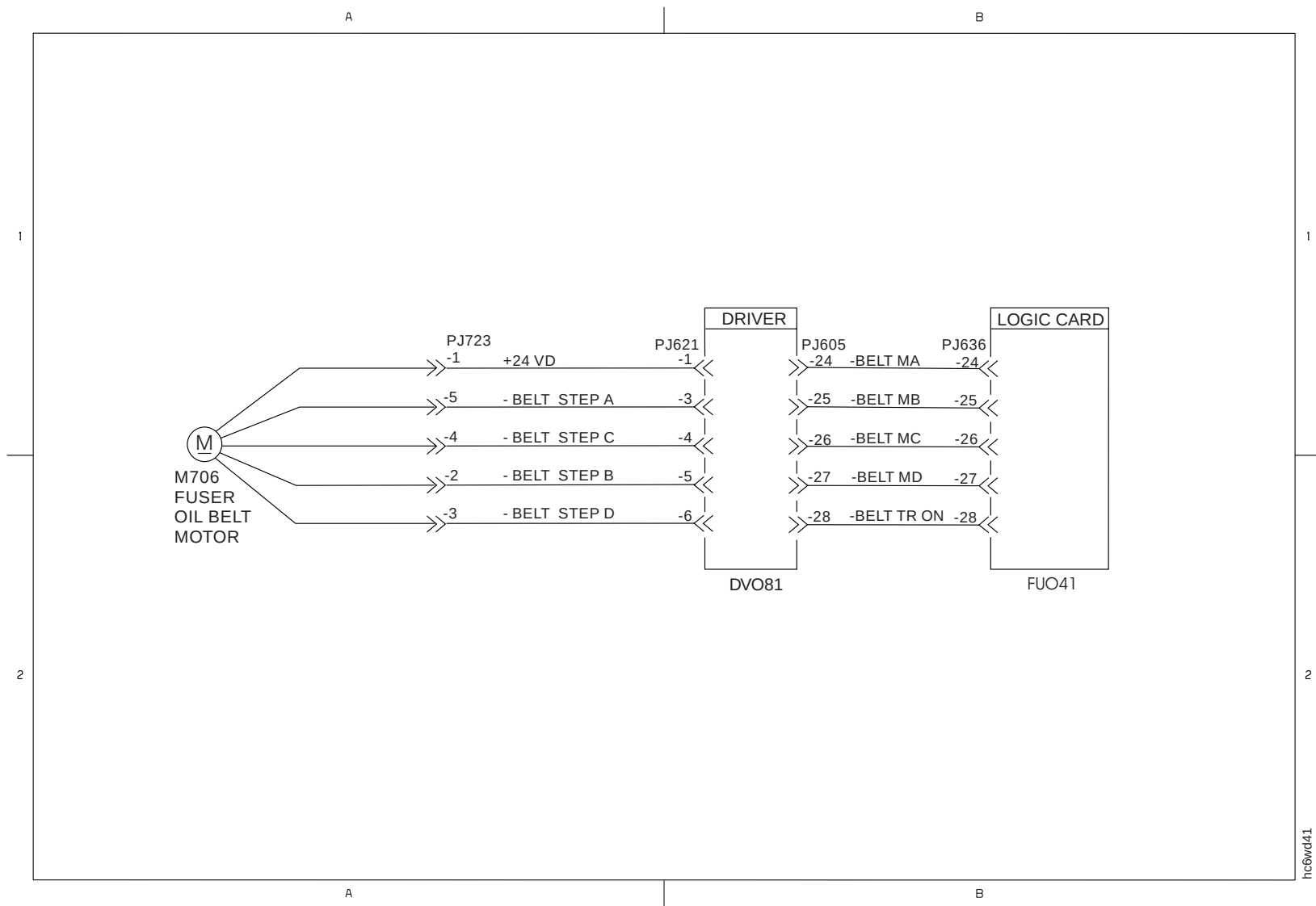
WD39 - Motors M704, M801, M802



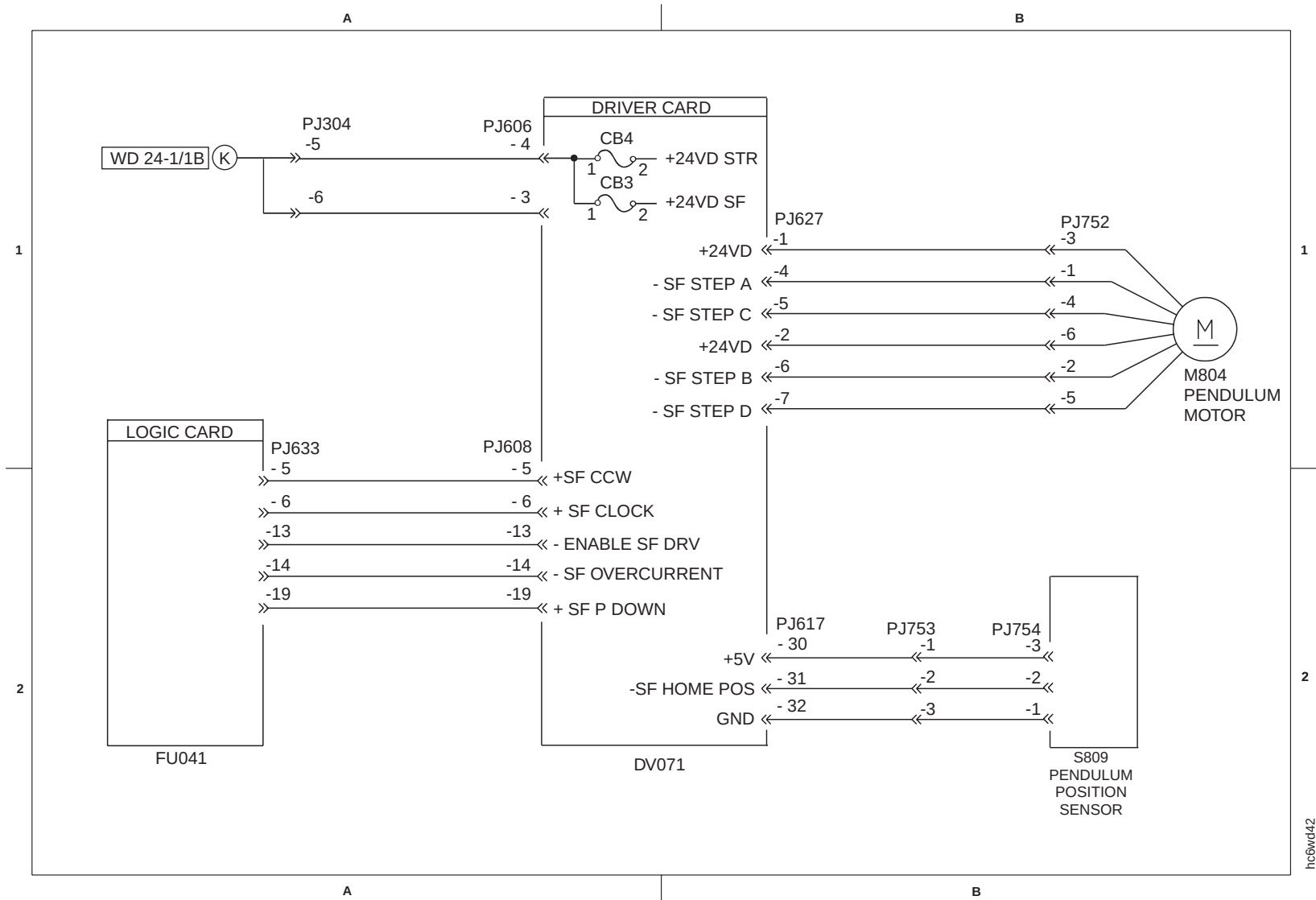
WD40 - Steering Motor (M705)



WD41 - Oiler Belt Motor (M706)

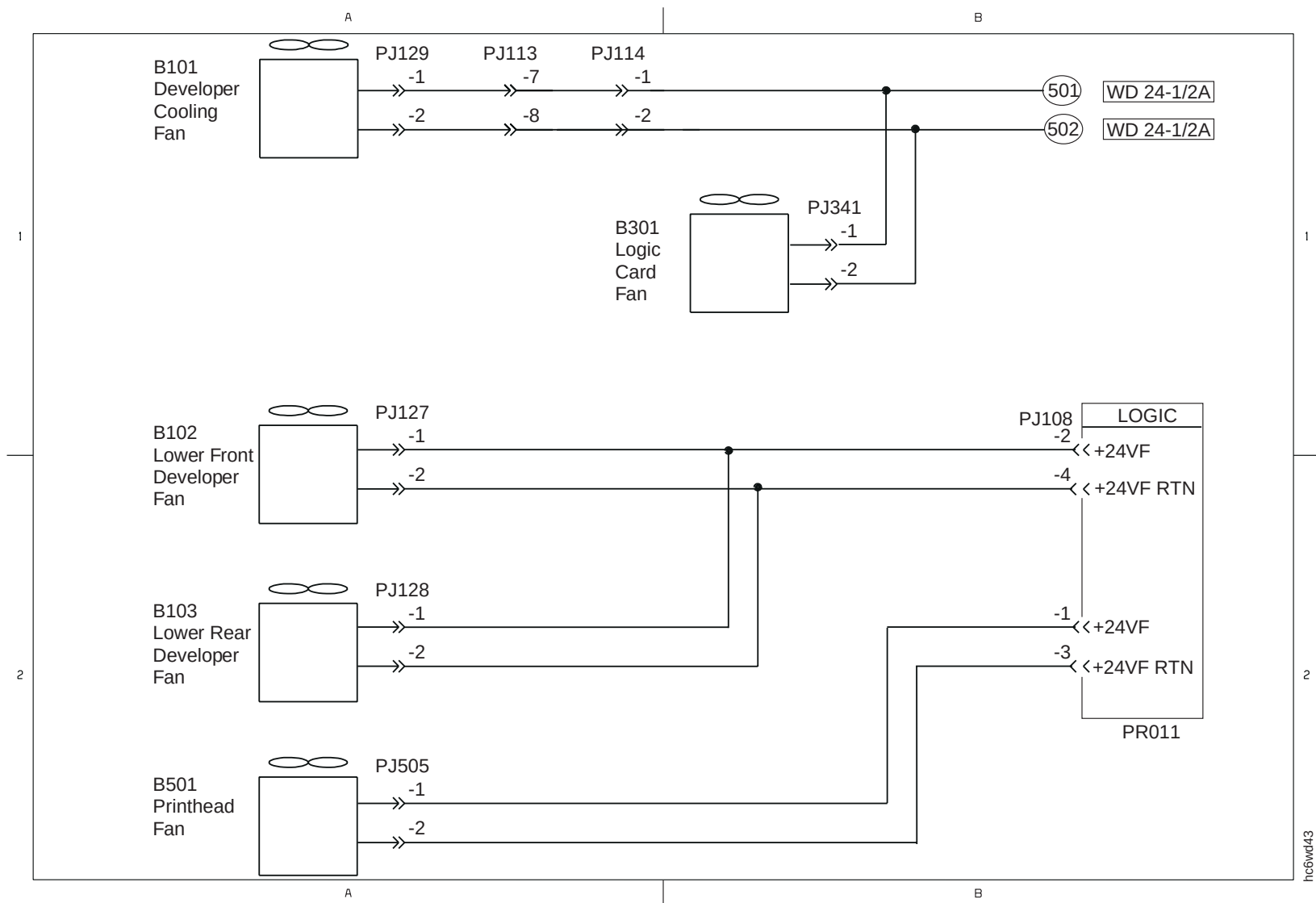


WD42 - Pendulum Motor M804 & Sensor S809

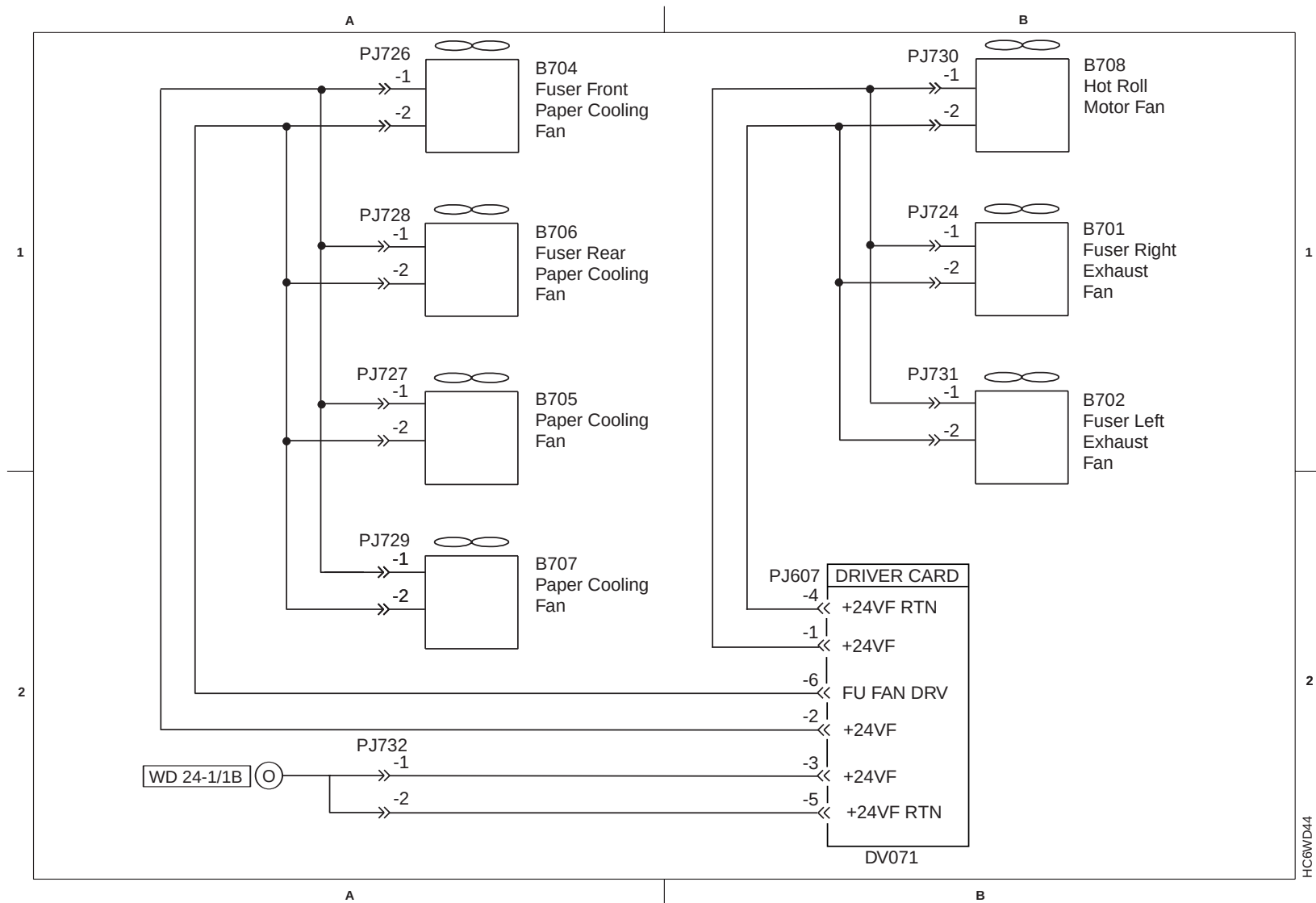


hc6wd42

WD43 - DC Fans B101, B102, B103, B301 & B501

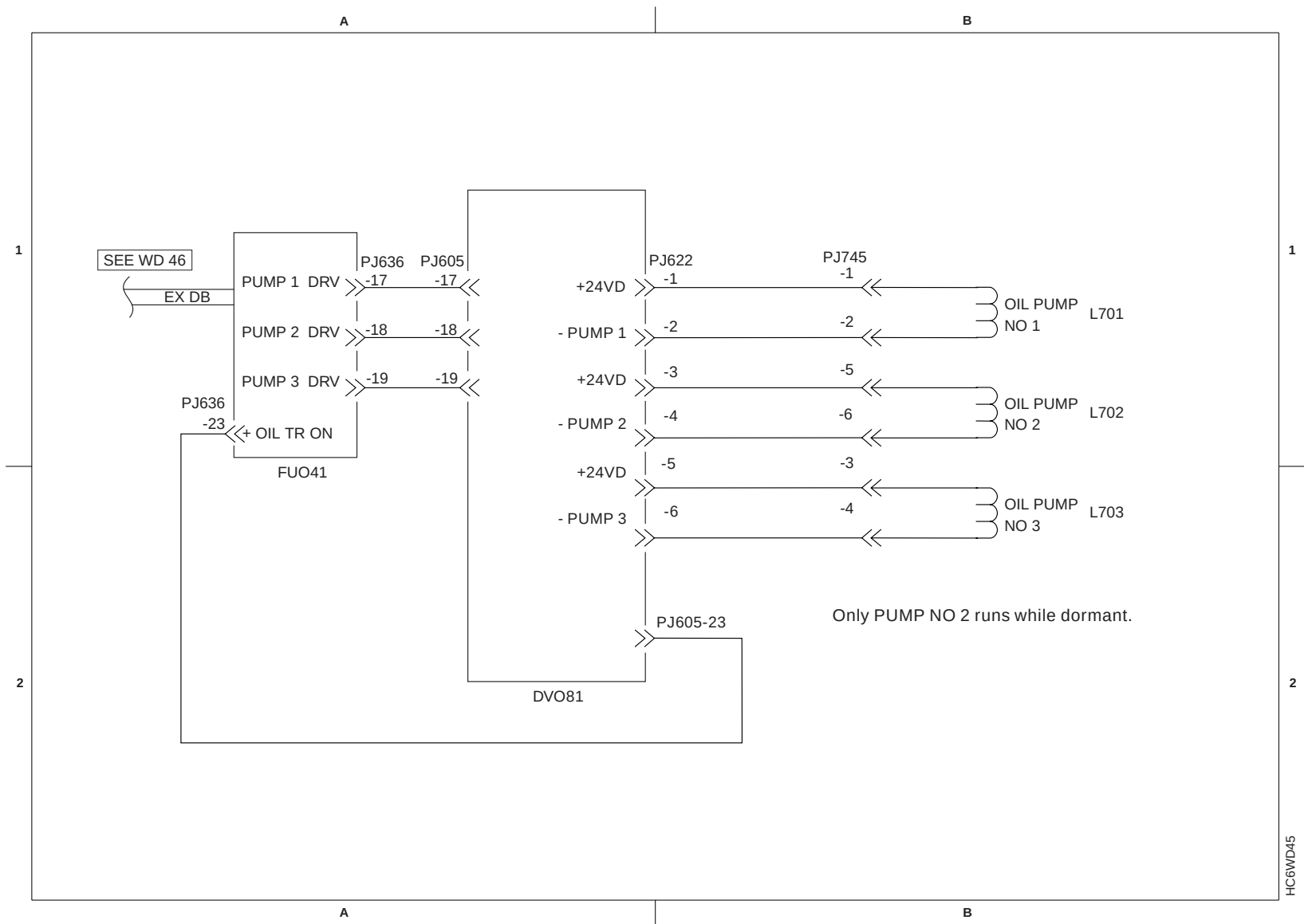


WD44 - DC Fans B7xx

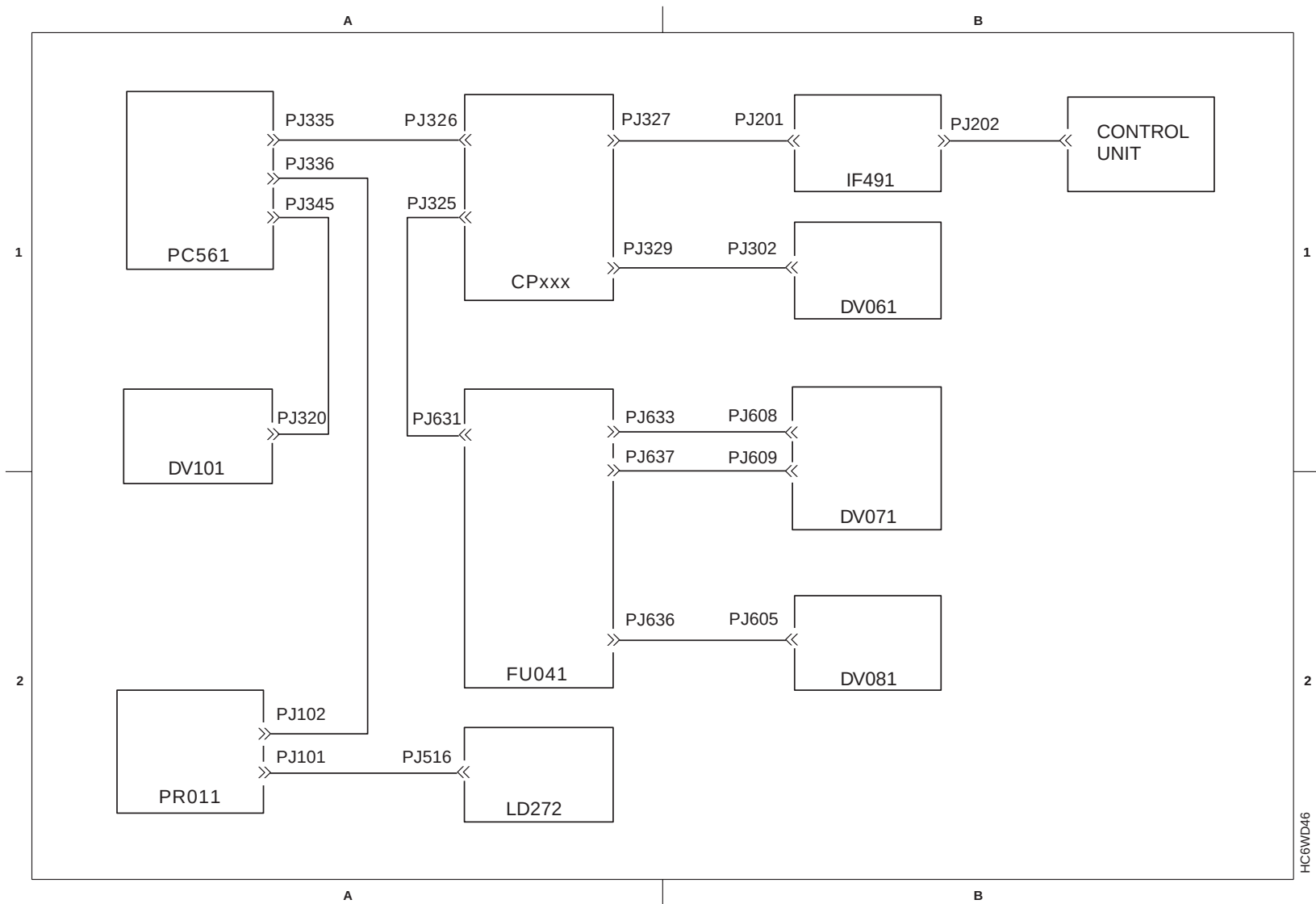


HC6WD44

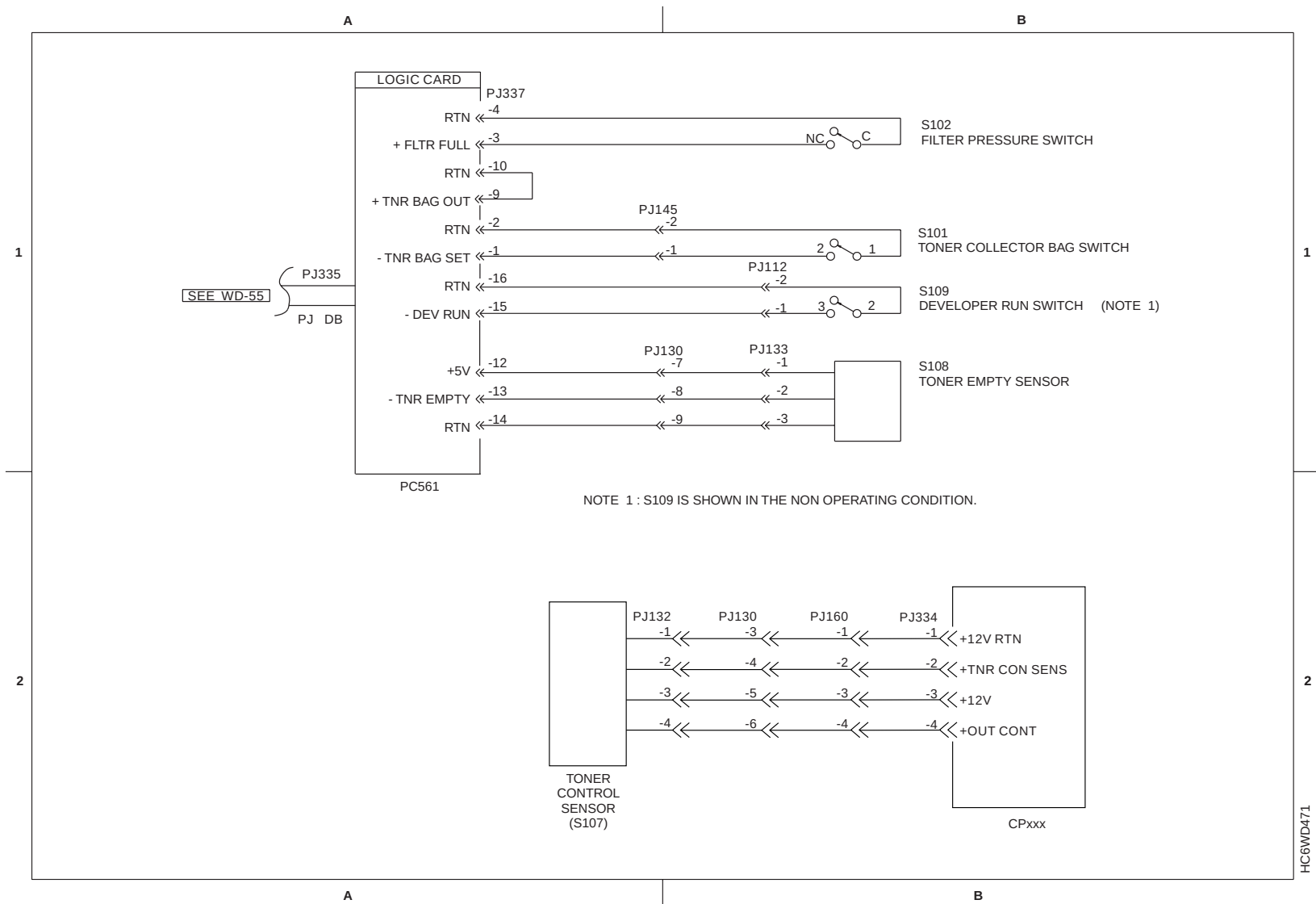
WD45 - Oil Pumps L701, L702 & L703



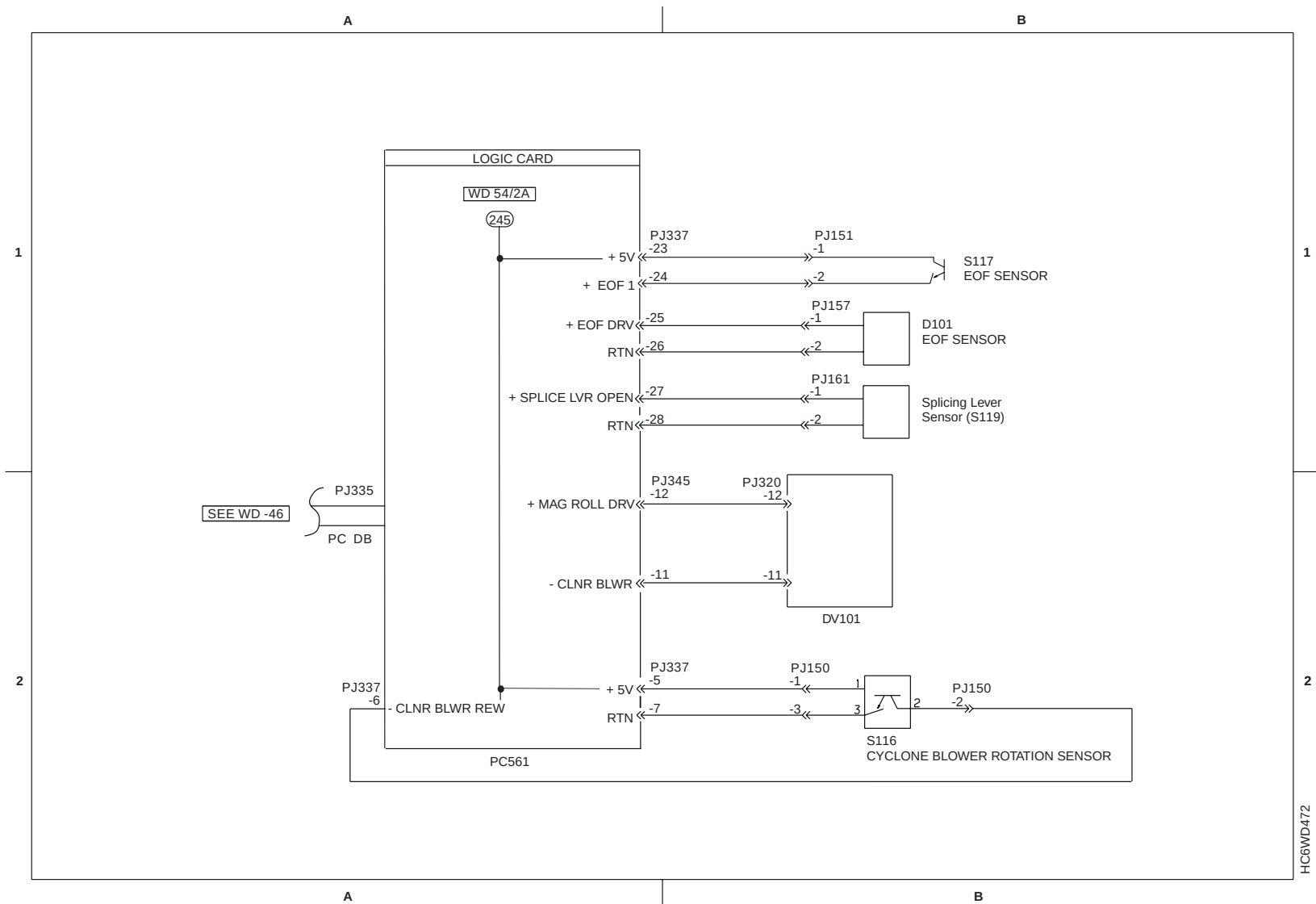
WD46 - Address/Data Bus Networks



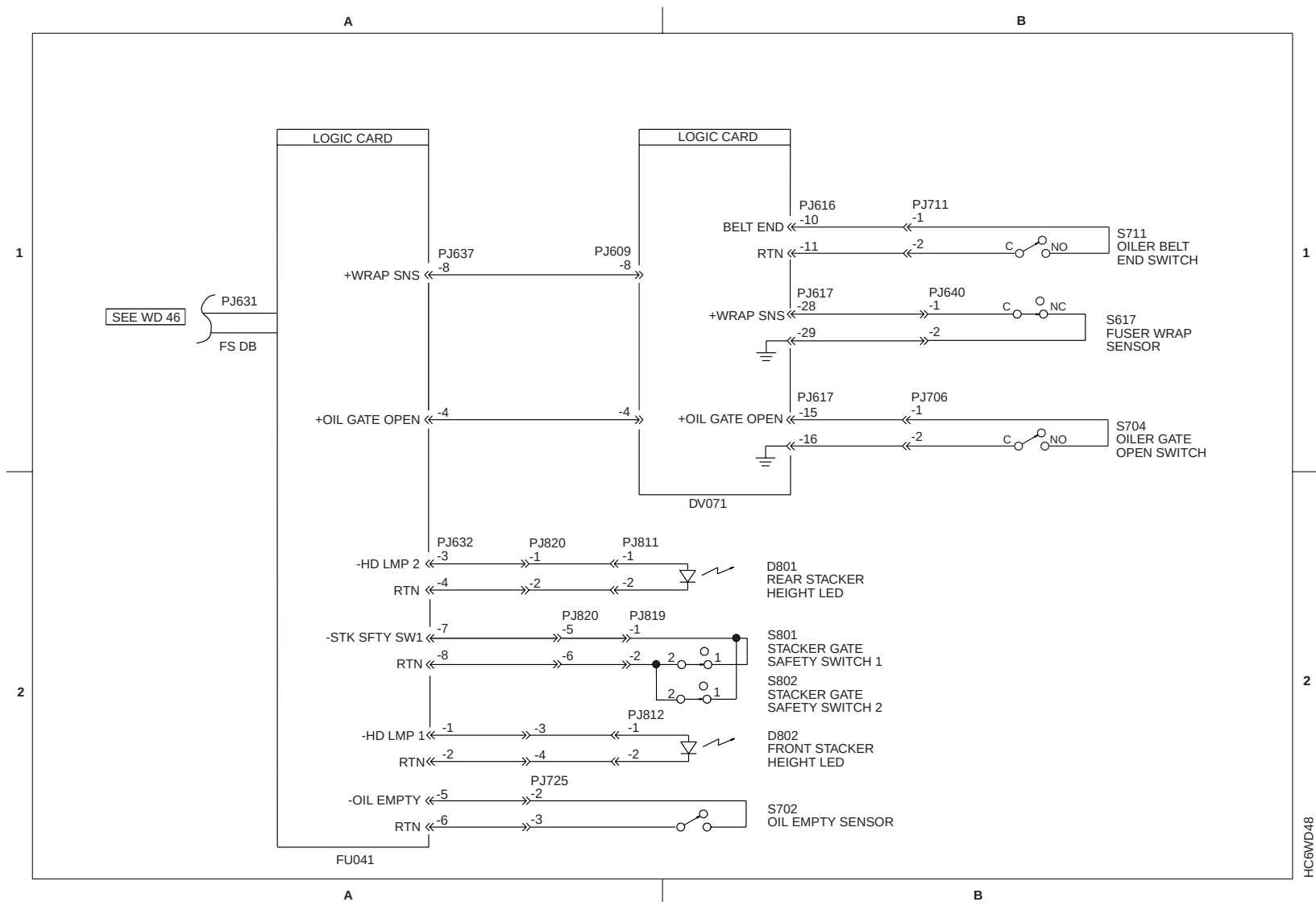
WD47-1 - Process Sensors (S10x)



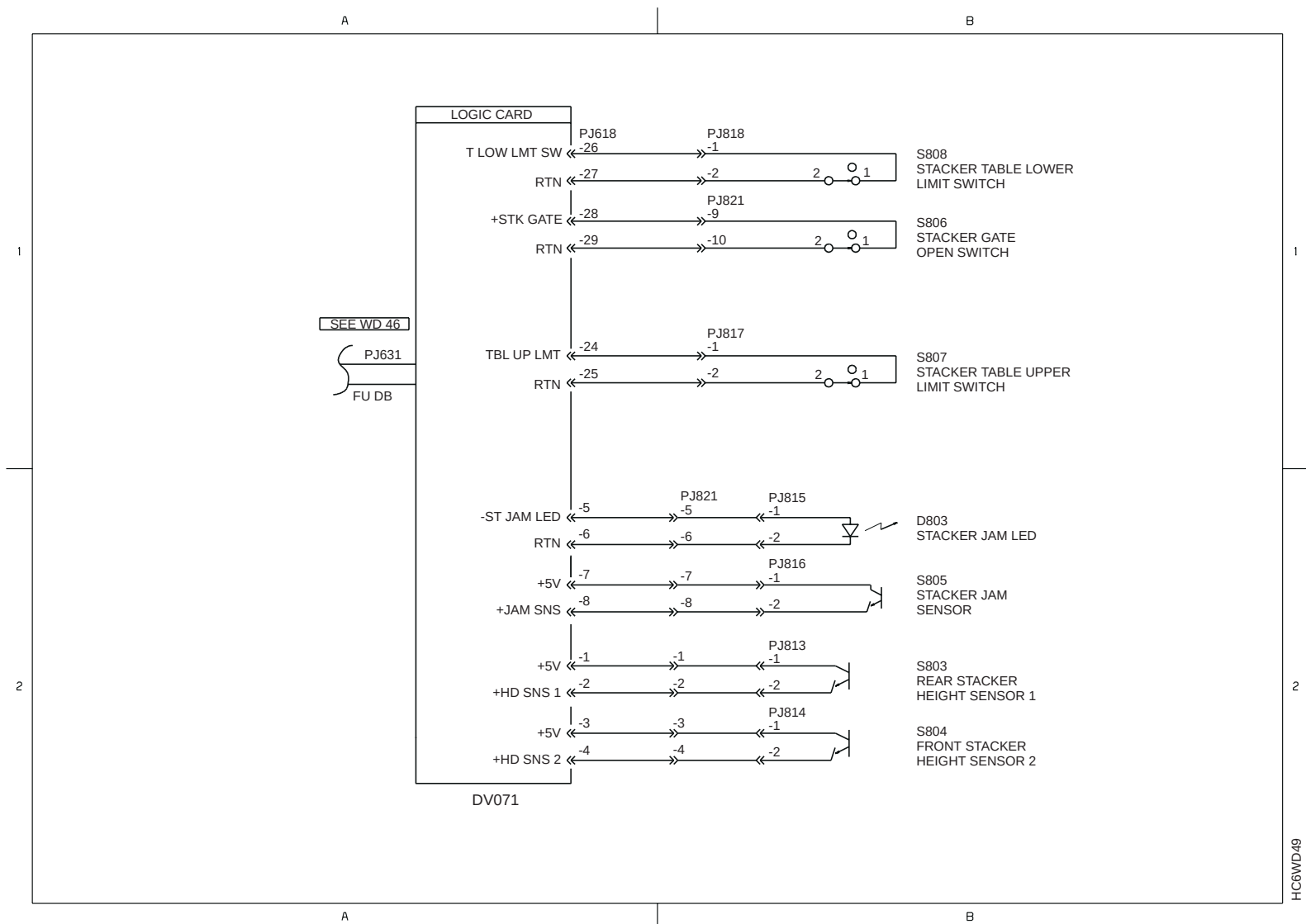
WD47-2 - Process Sensors (S11x)



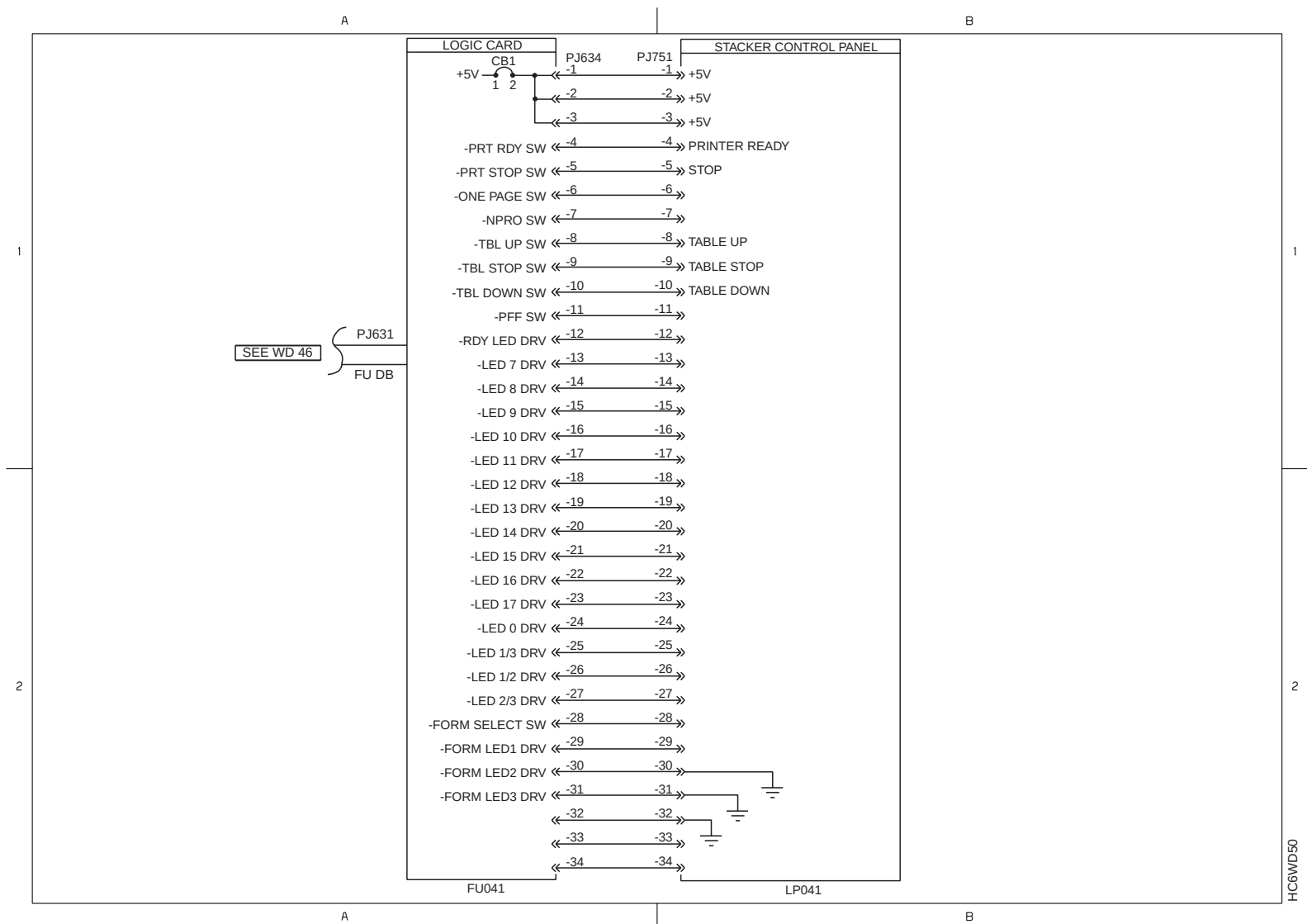
WD48 - Fuser & Stacker Sensors (DV071 & FU041)



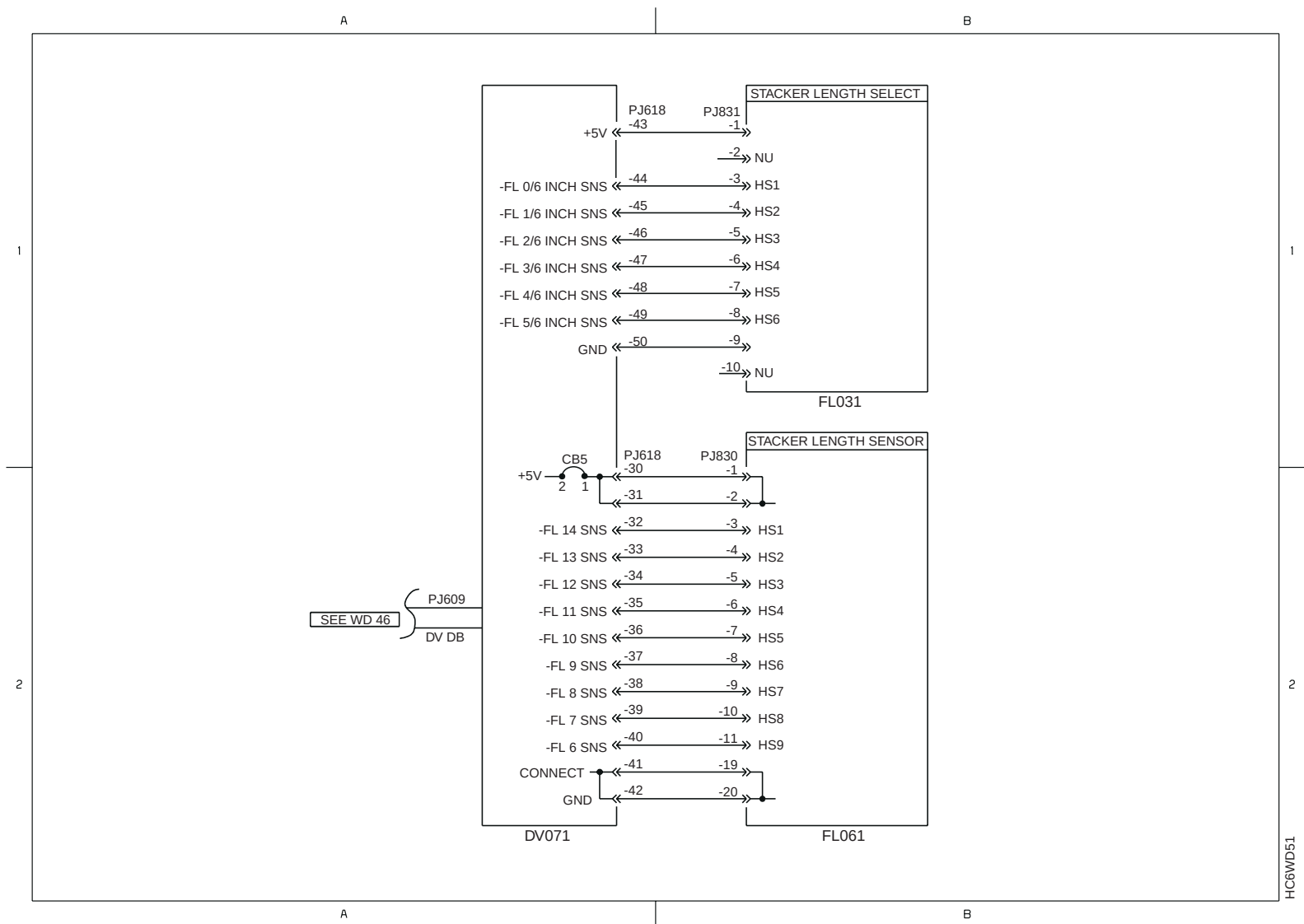
WD49 - Stacker Sensors (DV071 Card)



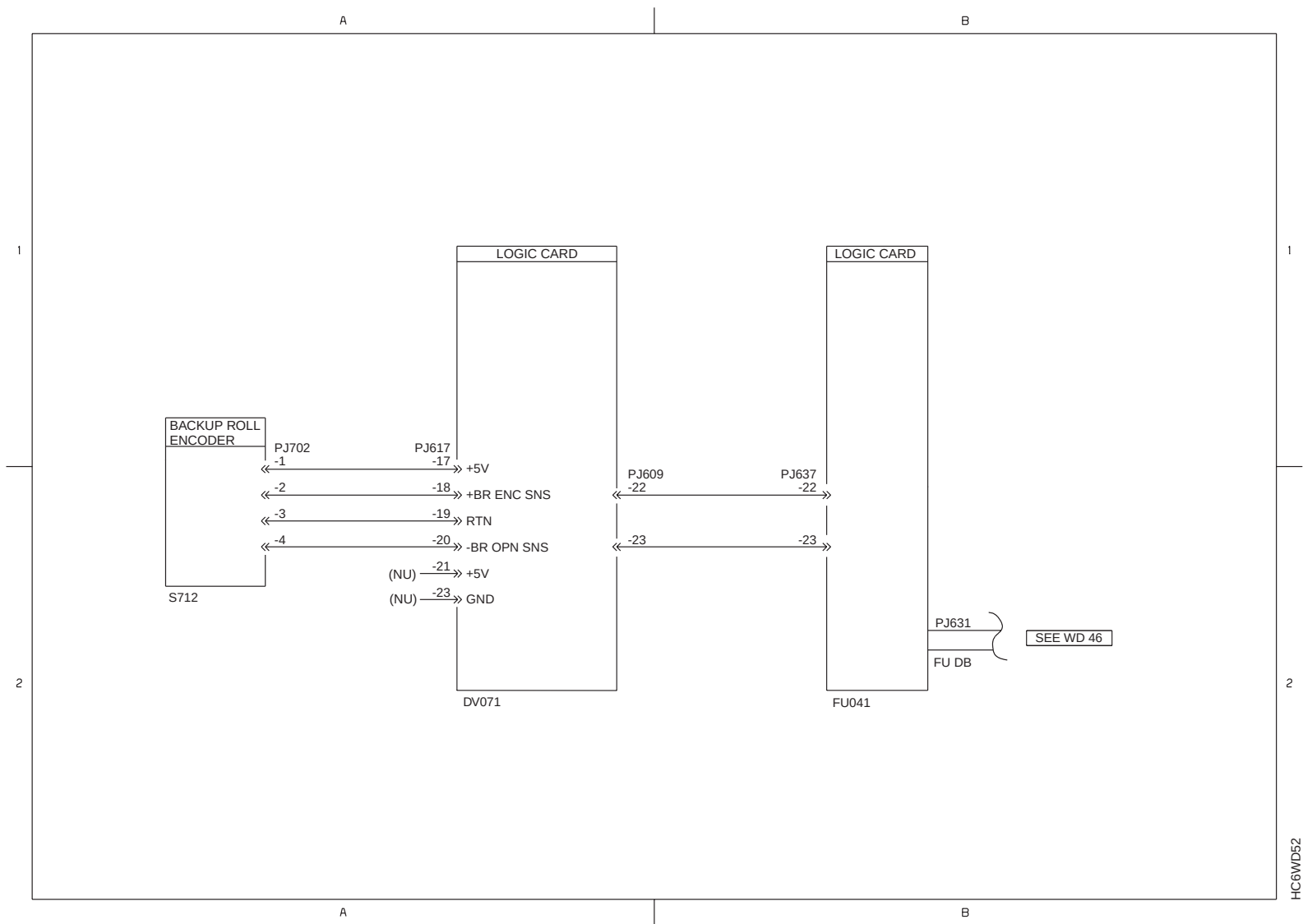
WD50 - Stacker Switch Panel (LP041 & FU041 Card)



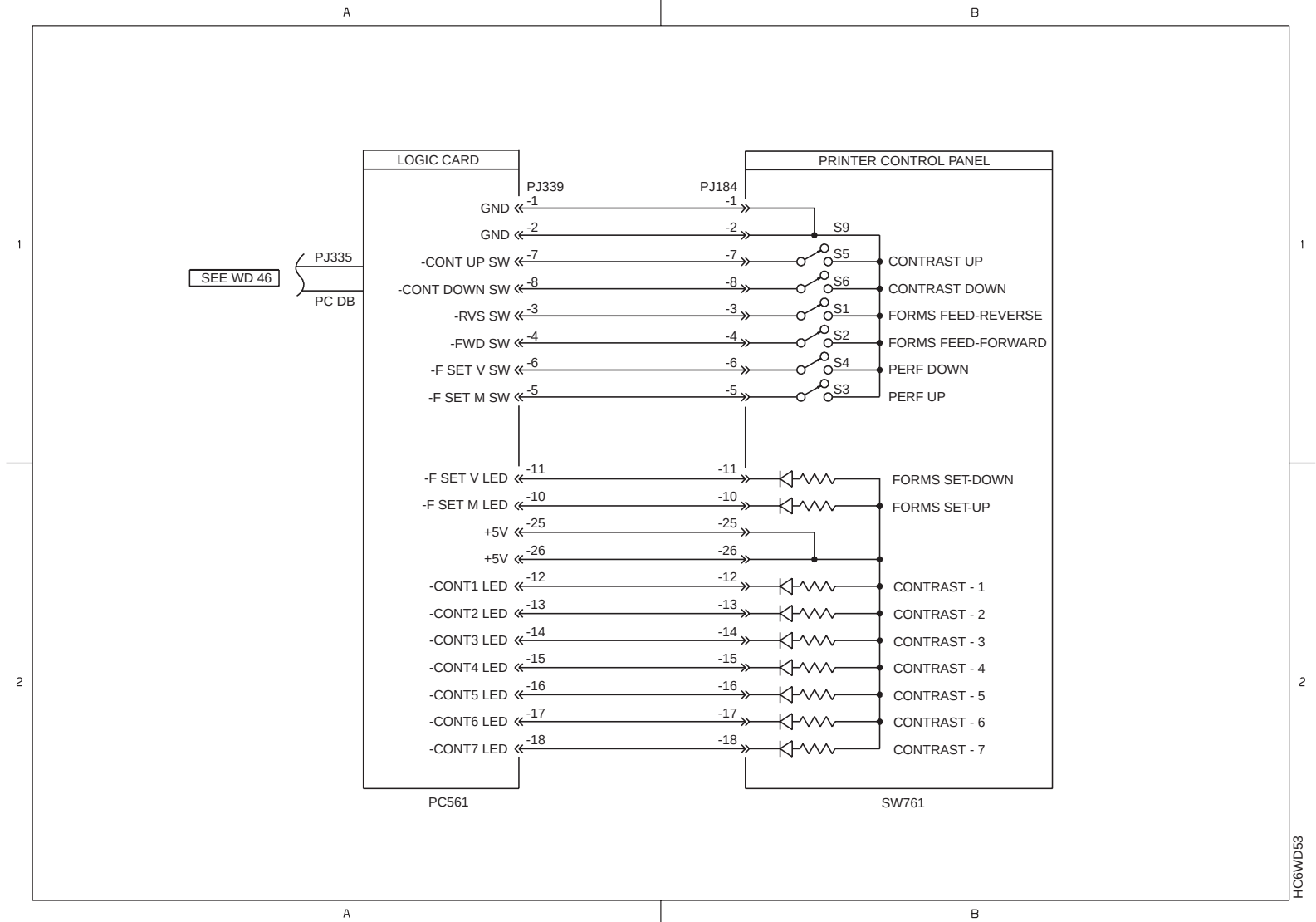
WD51 - Stacker Switch Panel (Forms Length Cards)



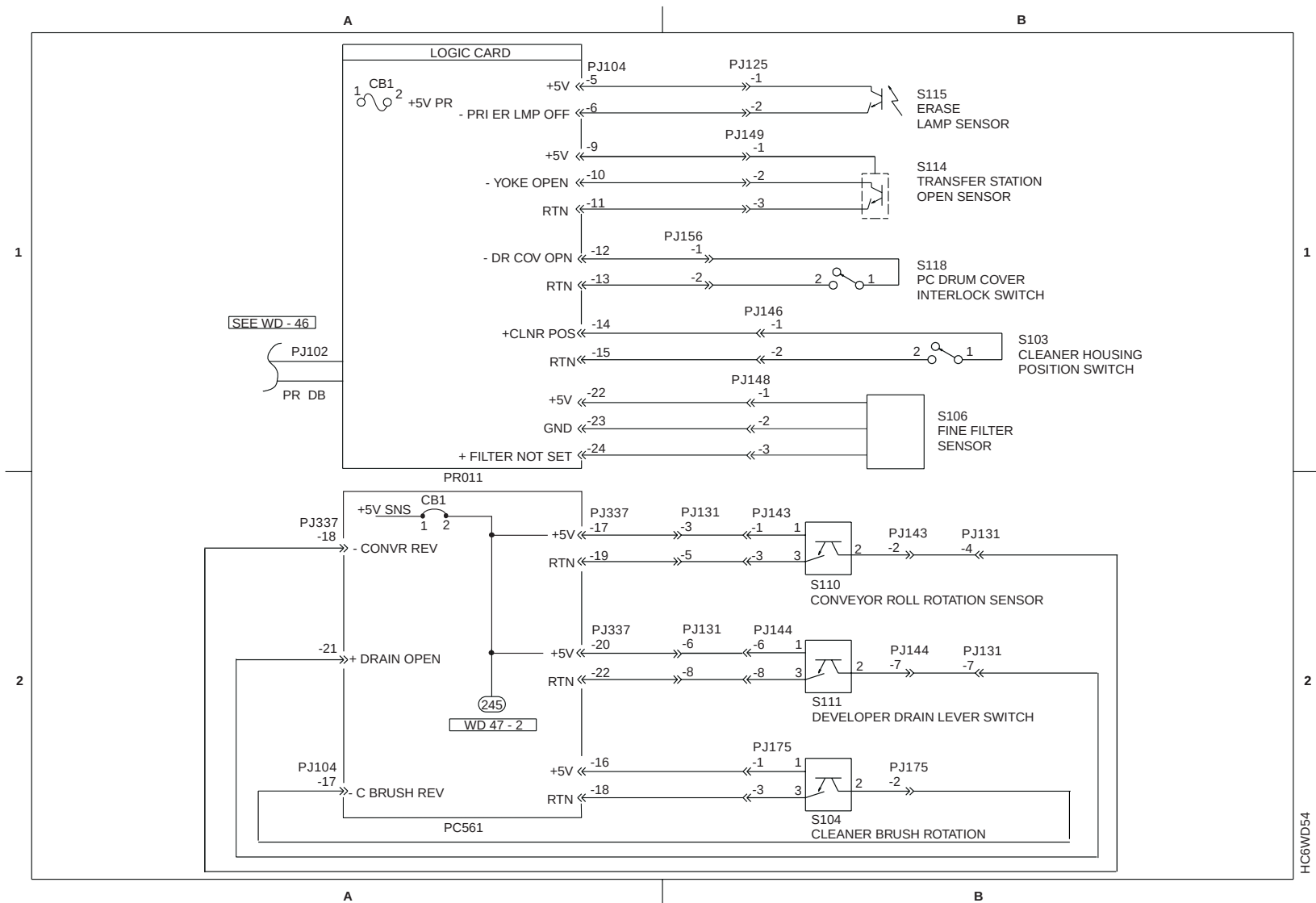
WD52 - Backup Roll Encoder (DV071 & FU041 Cards)



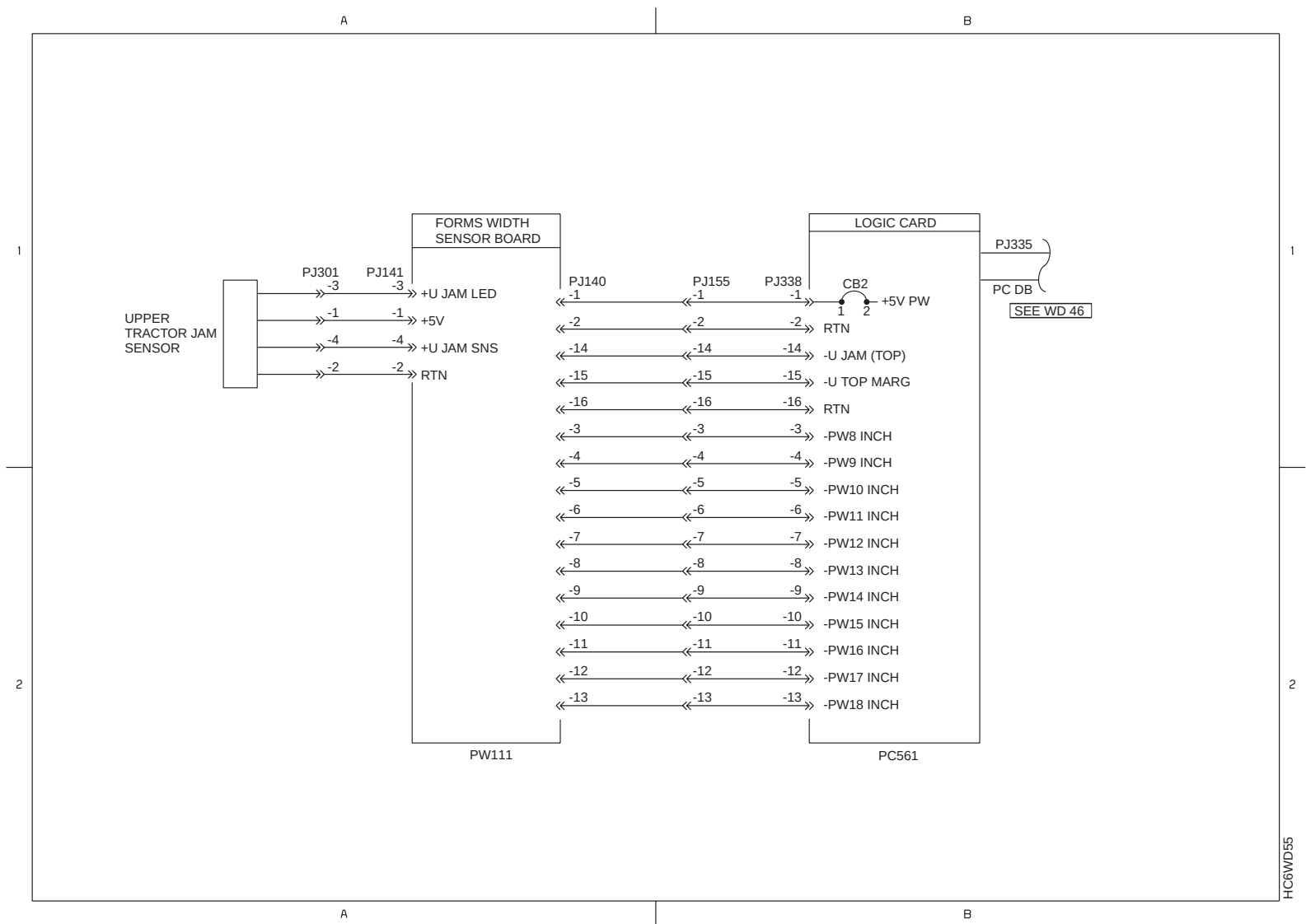
WD53 - Switches & Sensors (PC561 Card)



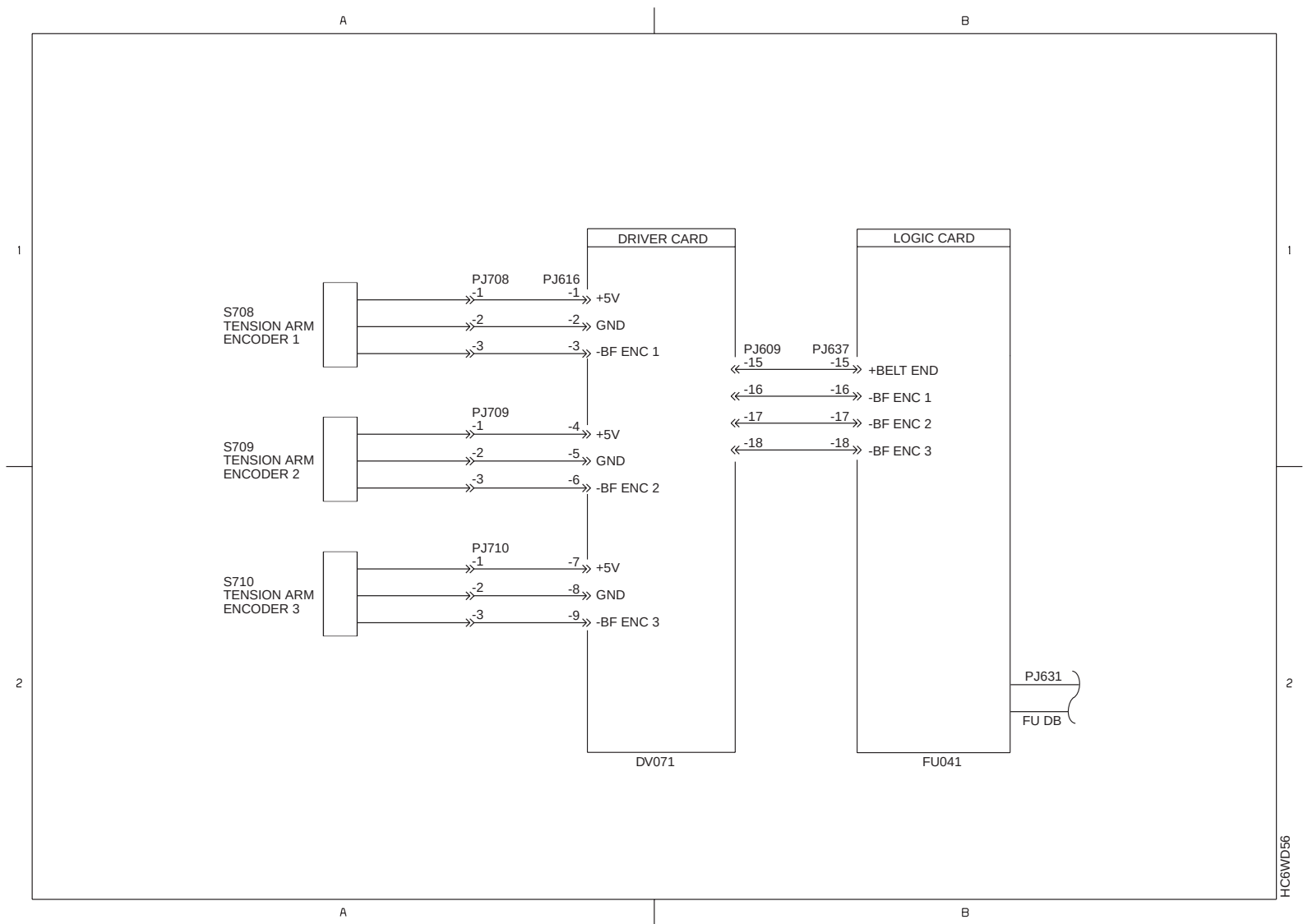
WD54 - Switches & Sensors - PC561 & PR011 Cards



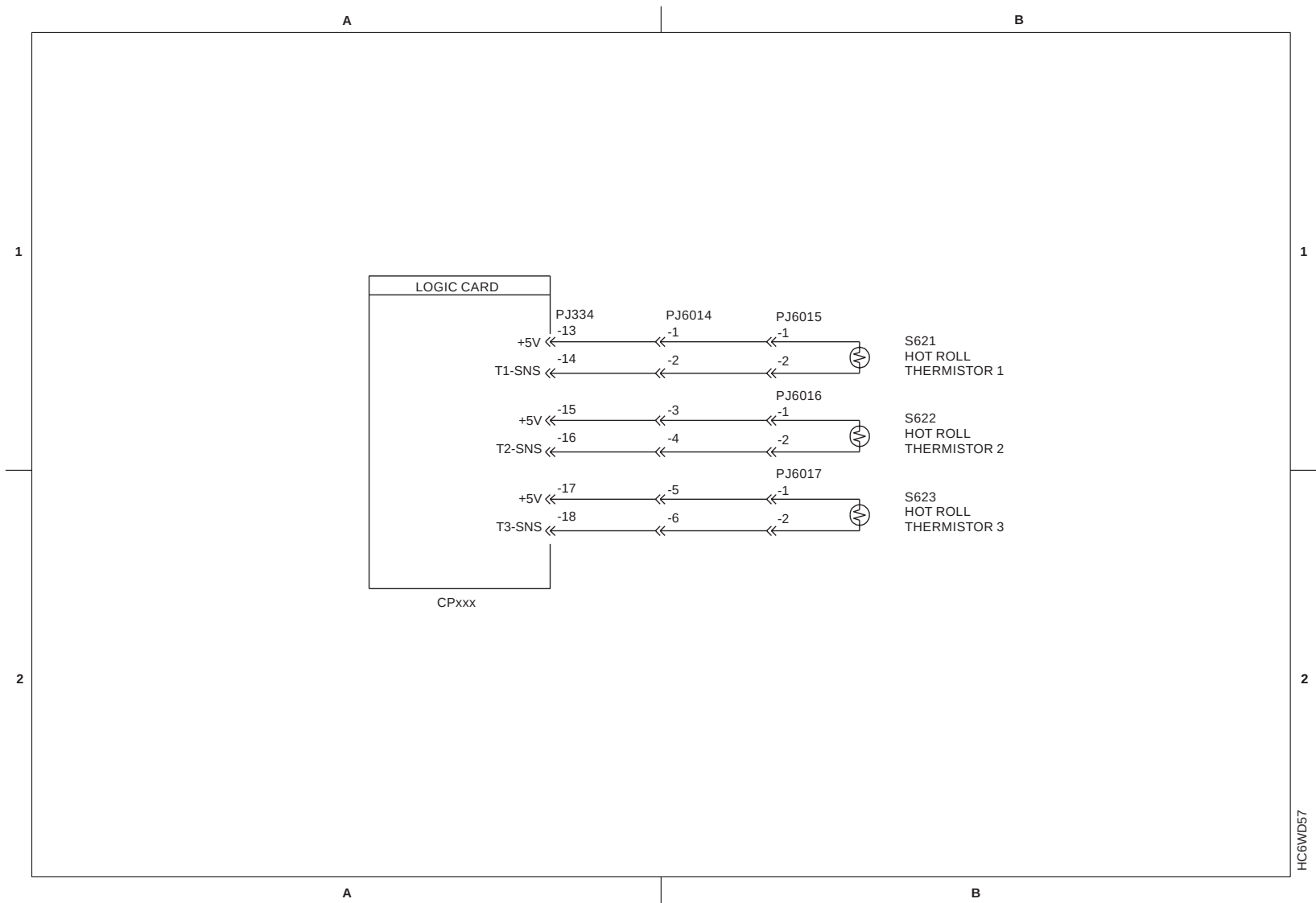
WD55 - Forms Path Sensors - PW111 & PC561 Cards



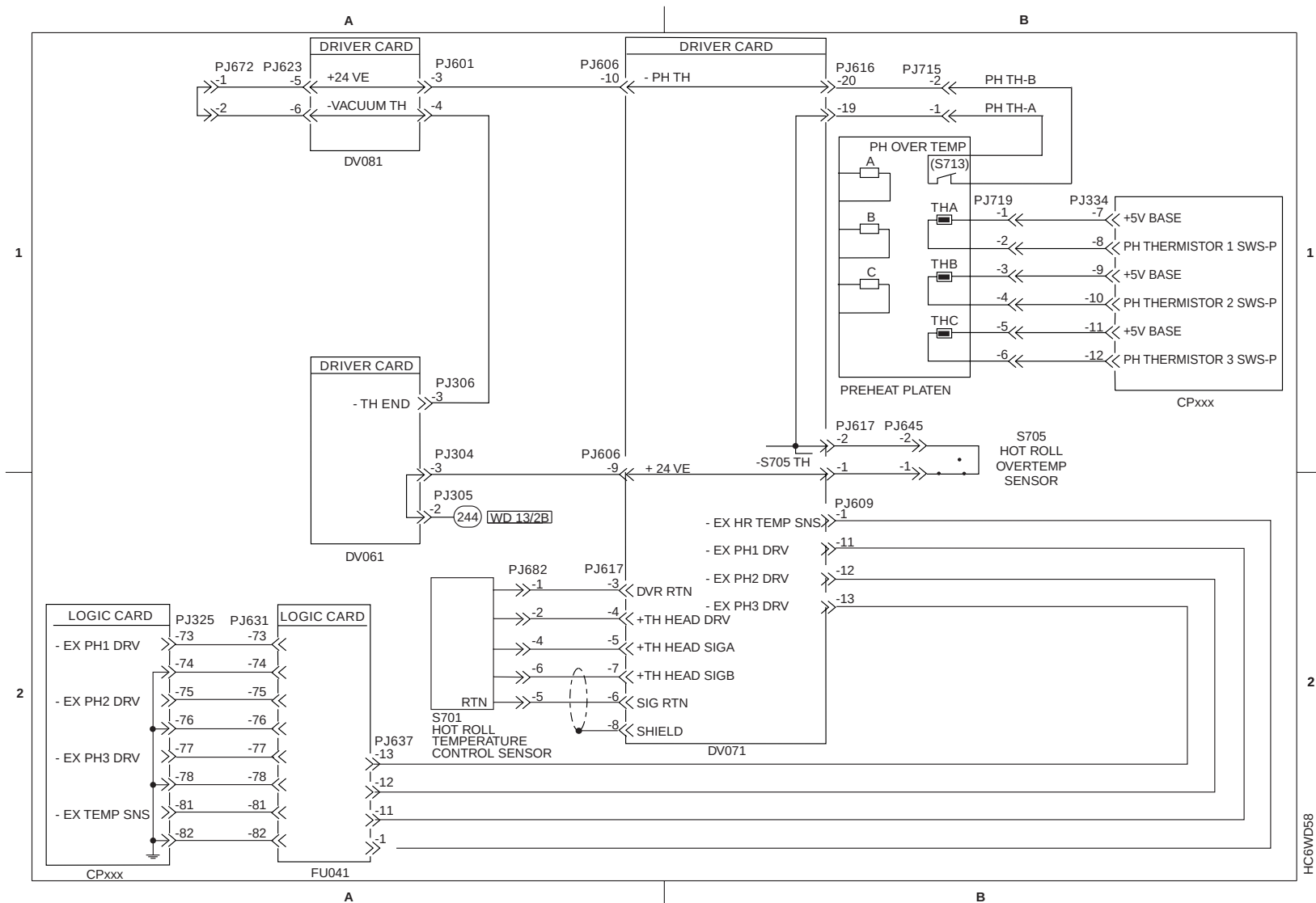
WD56 - Forms Path Sensors (DV071 & FU041 Cards)



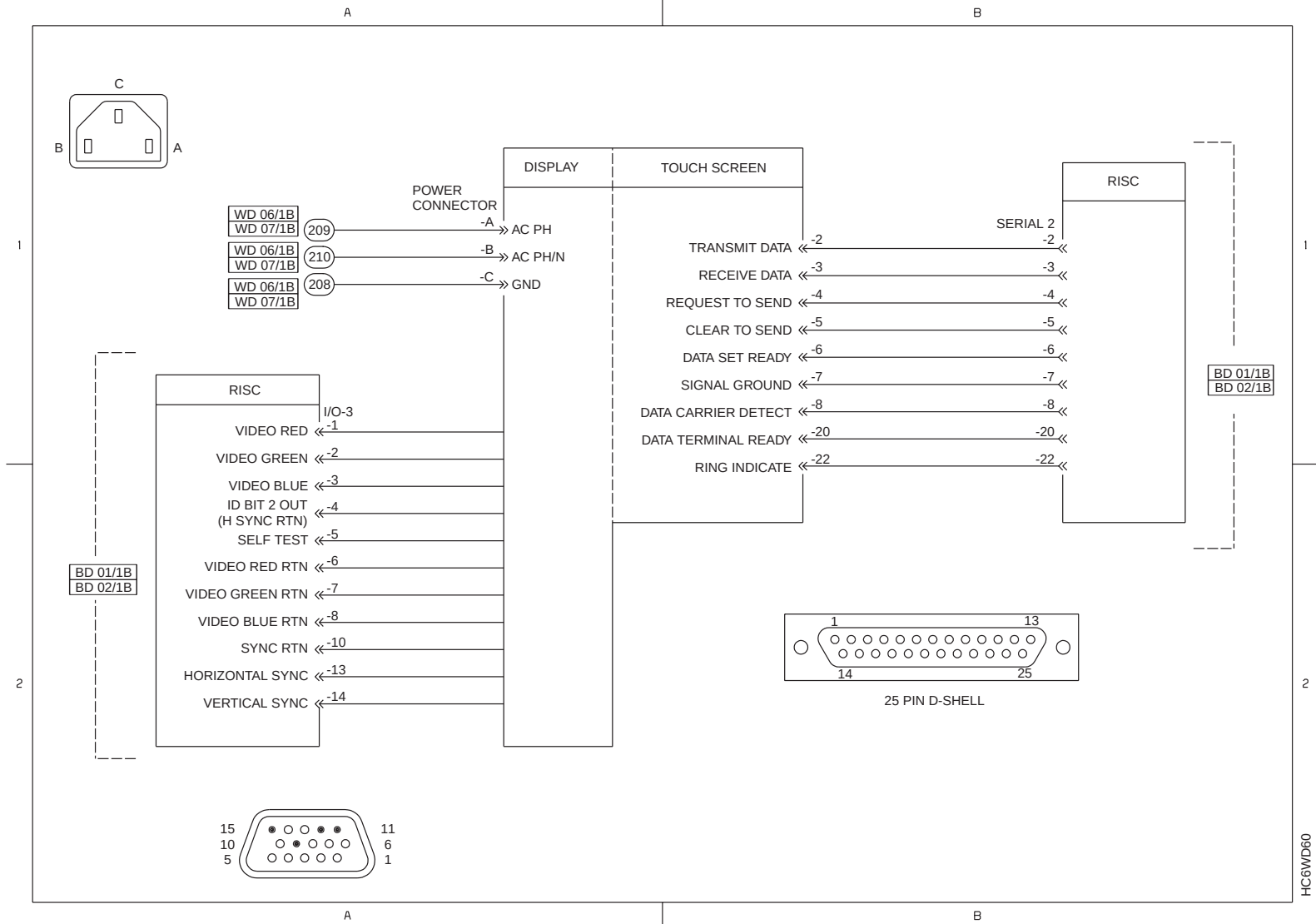
WD57 - Fuser Thermistors



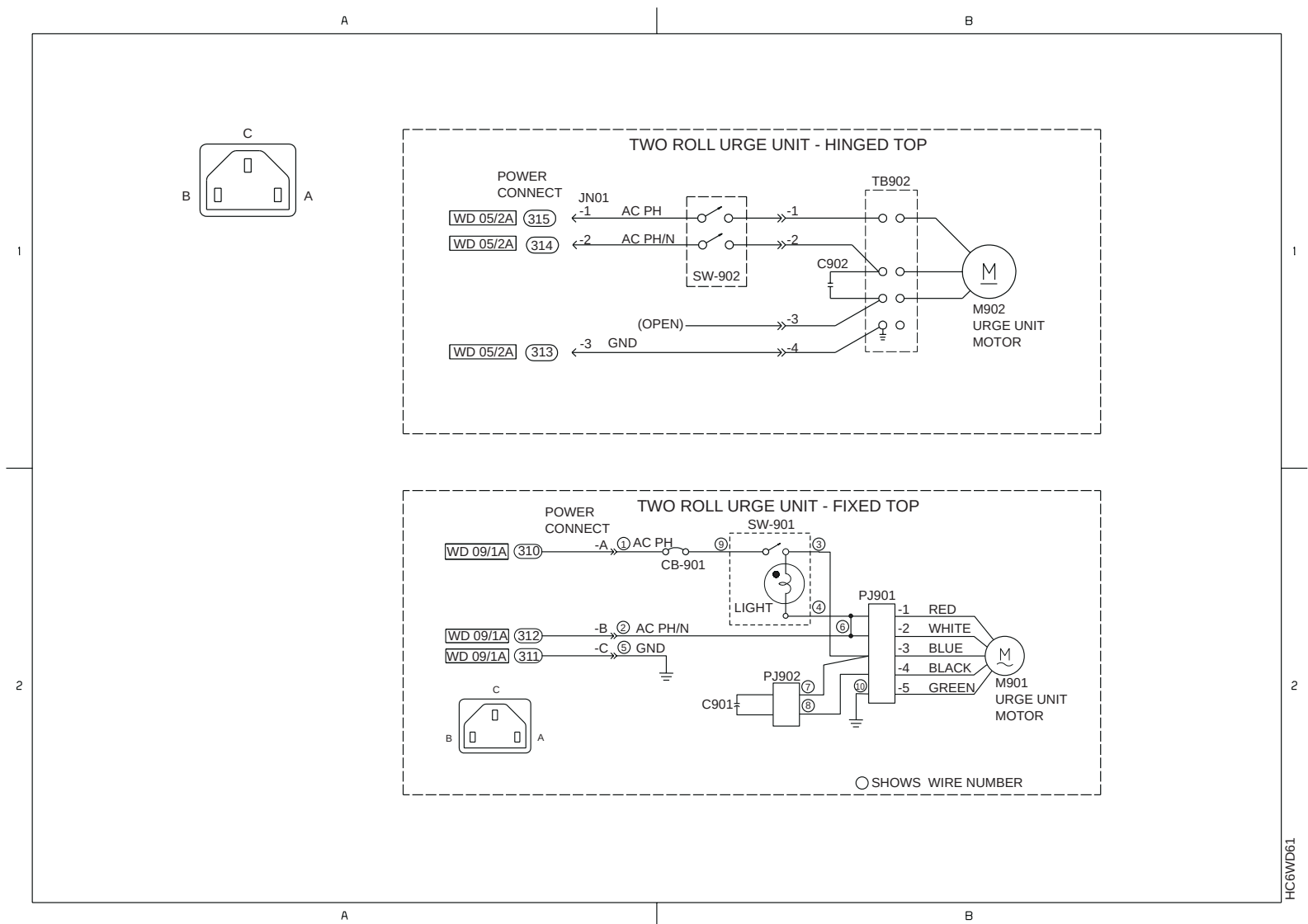
WD58 - Fuser Sensors



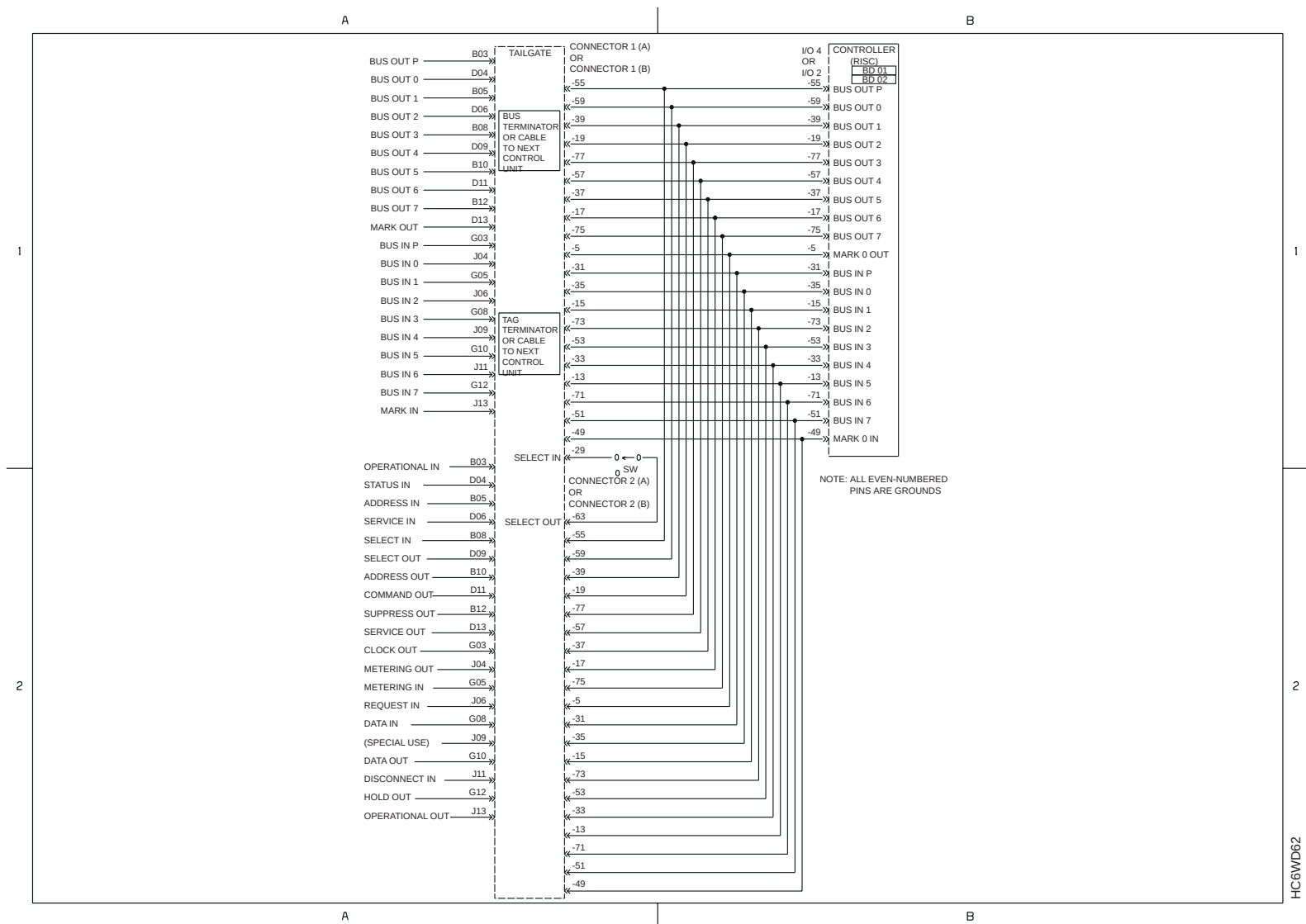
WD60 - Control Unit Display/Touch Screen



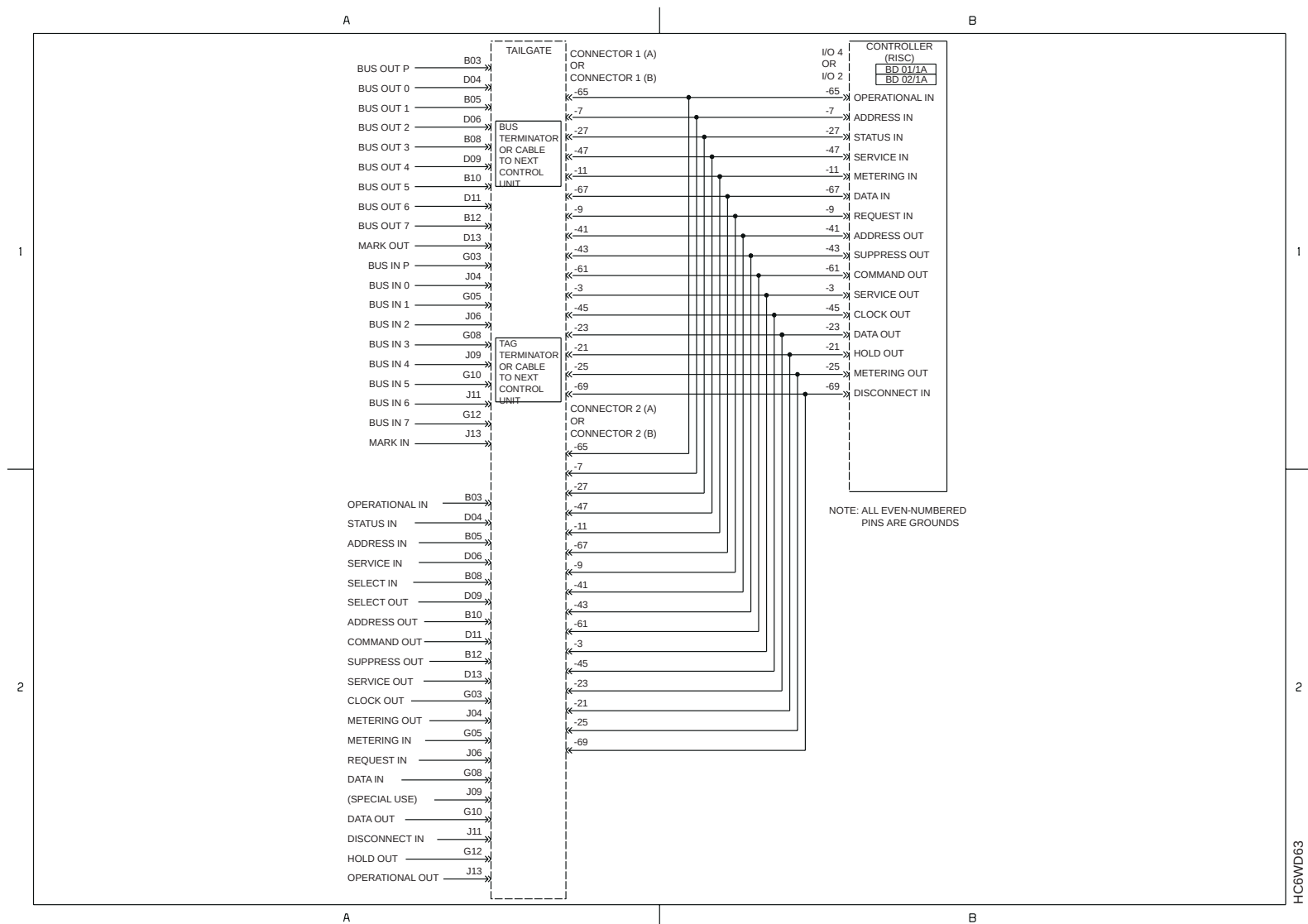
WD61 - Urge Unit (Duplex)



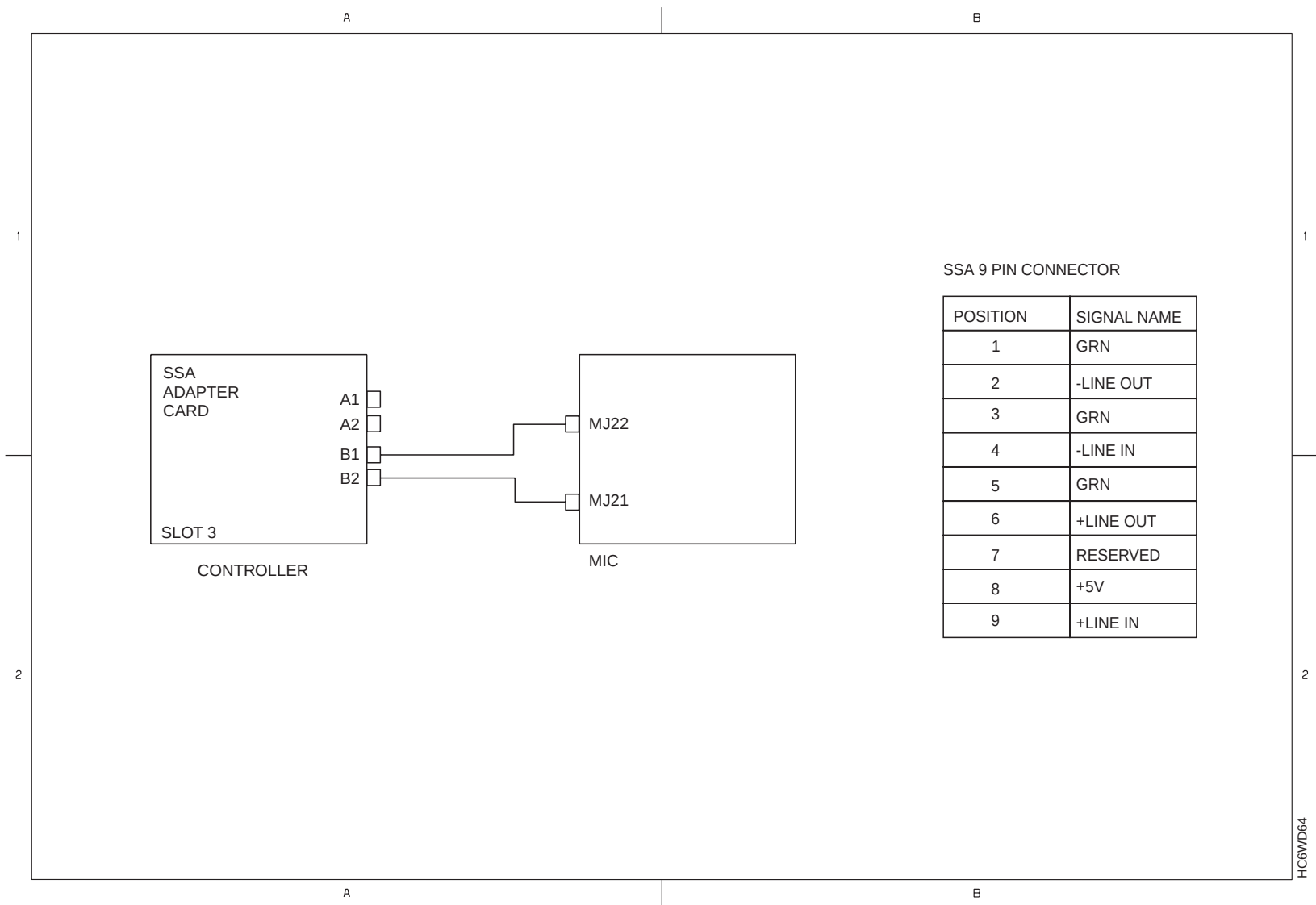
WD62 - Parallel Channel Signal - Tailgate to Controller



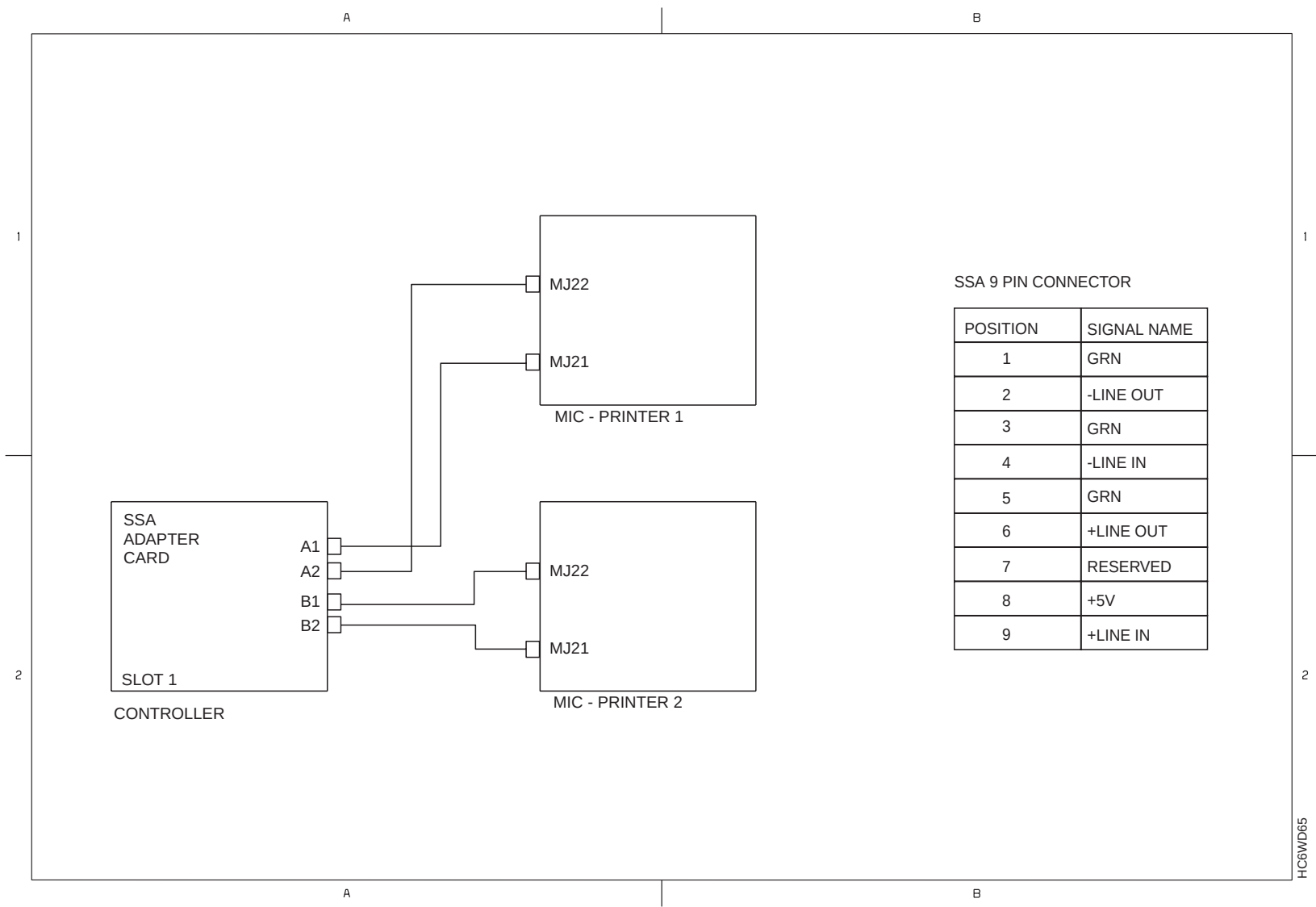
WD63 - Parallel Channel Signal - Tailgate to Controller



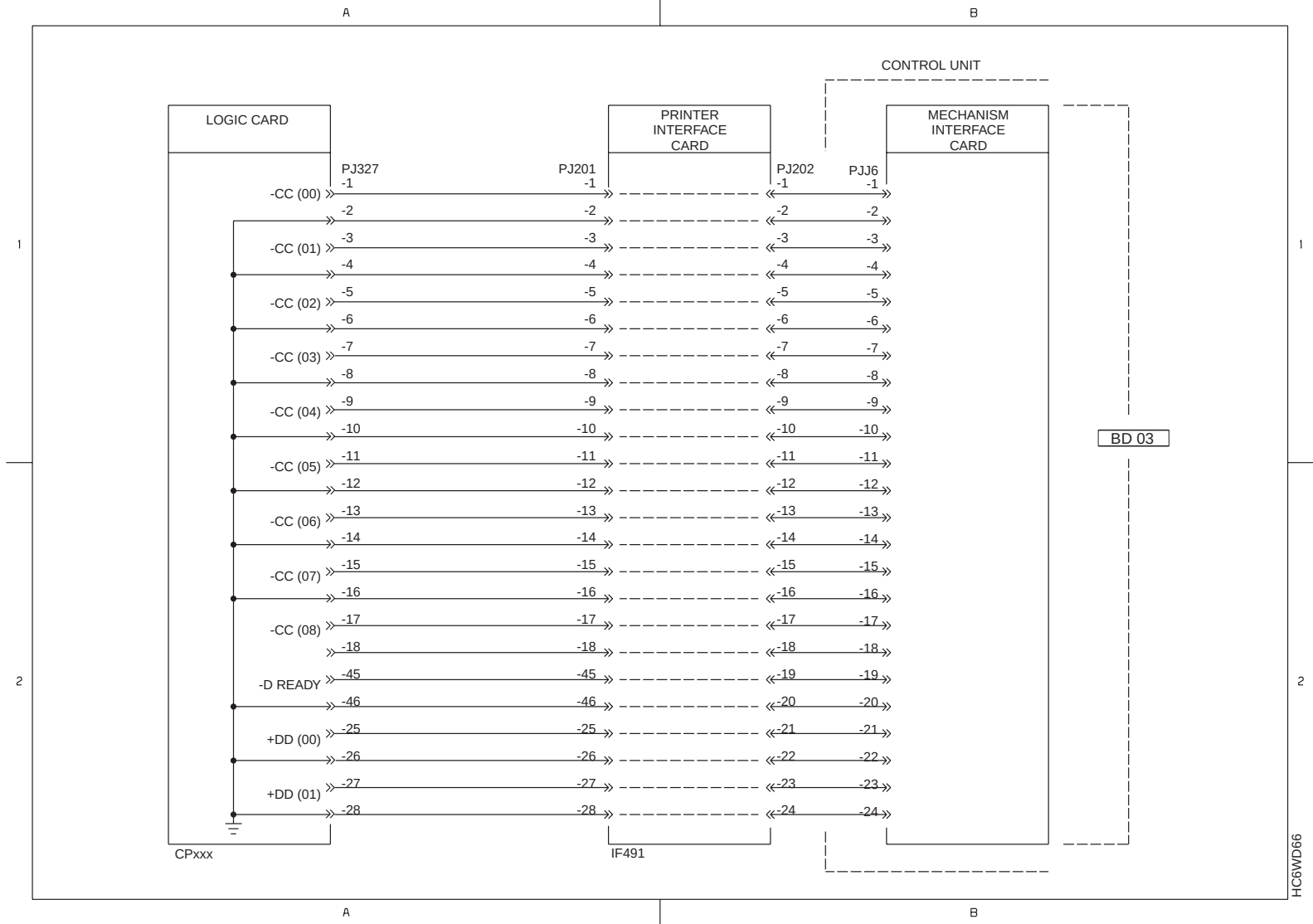
WD64 - Control Unit (Controller to MIC)



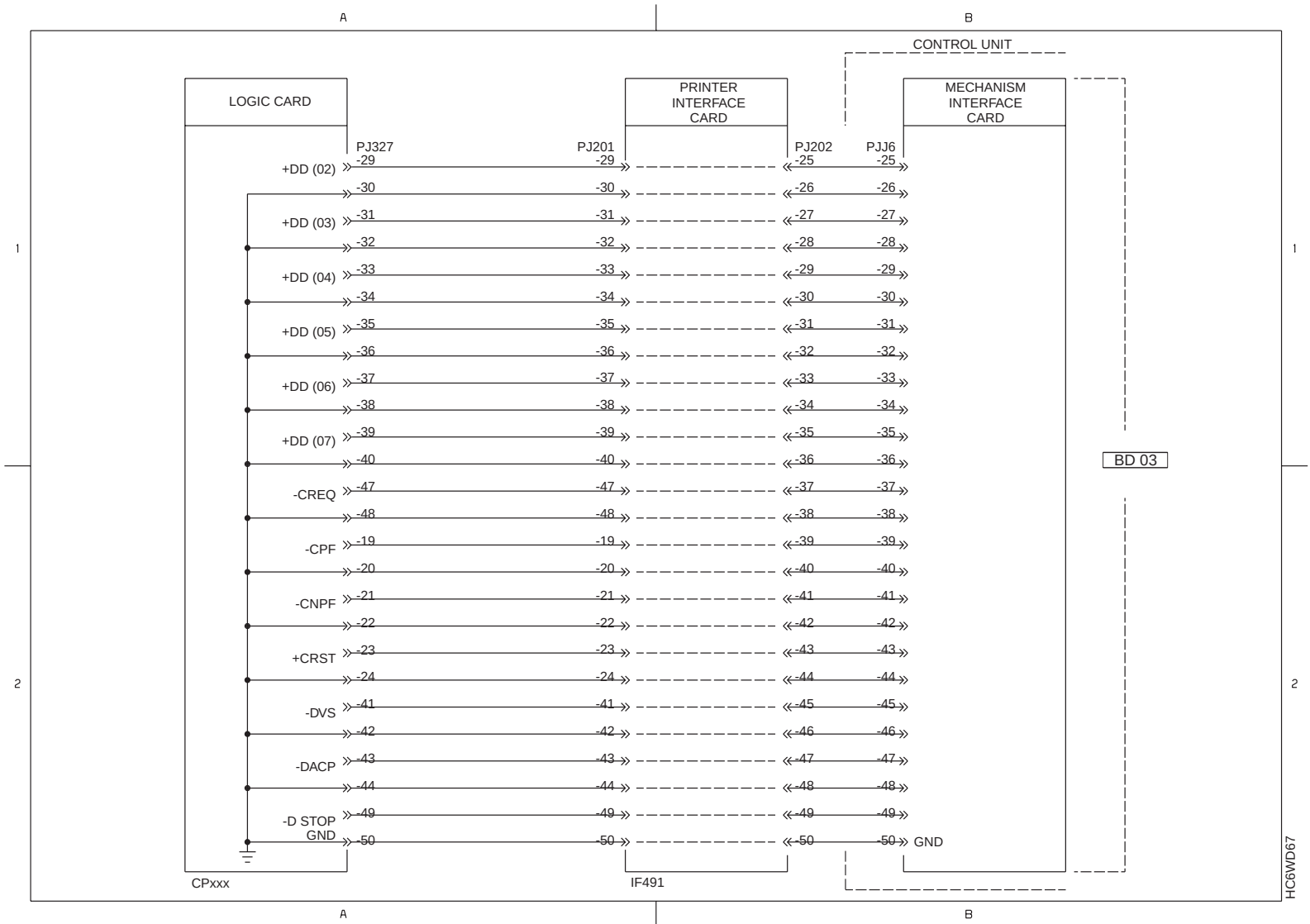
WD65 - MIC Control Unit 2 to MIC Control Unit 1



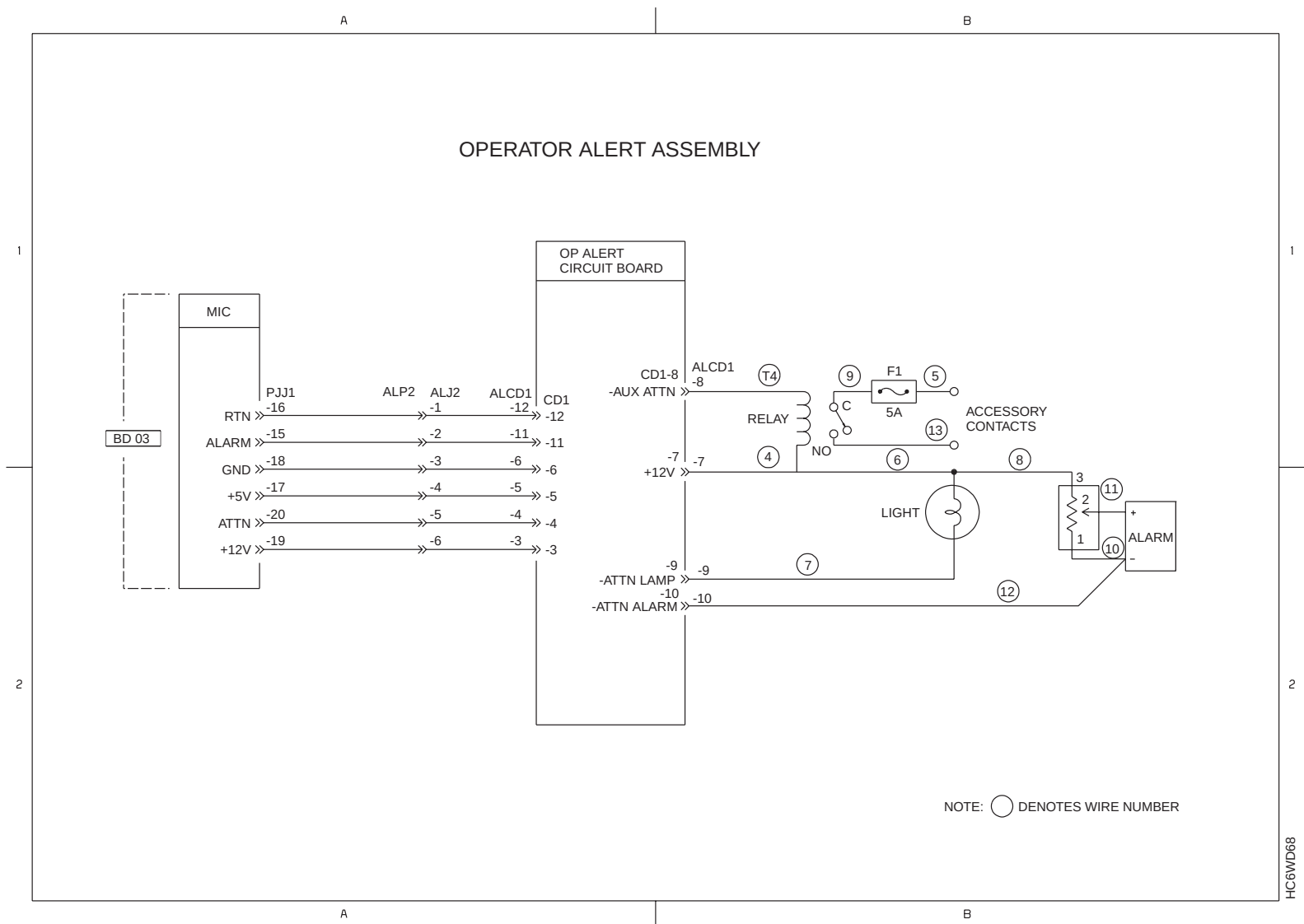
WD66 - MIC to Printer Control Cable (1 of 2)



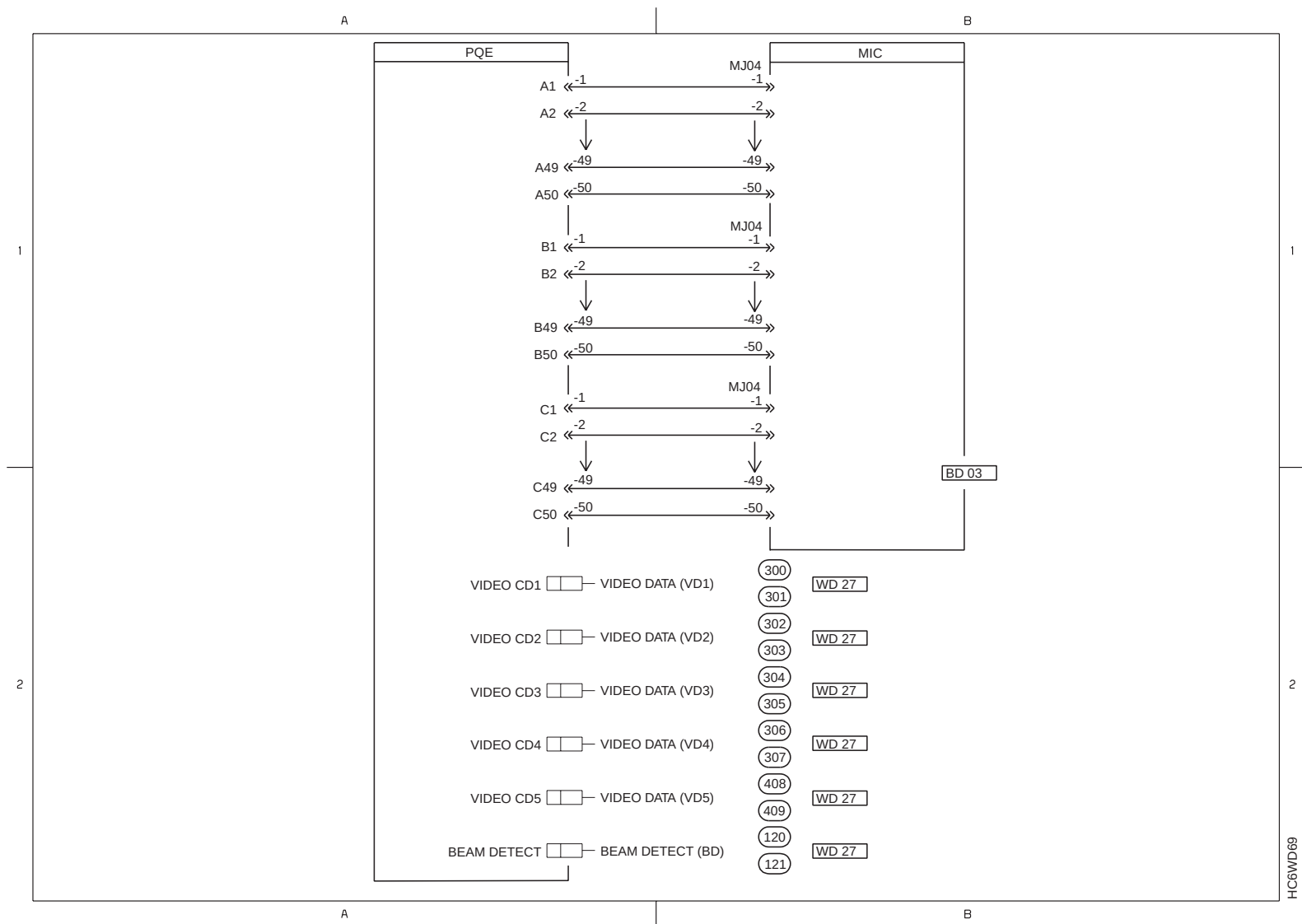
WD67 - MIC to Printer Control Cable (2 of 2)



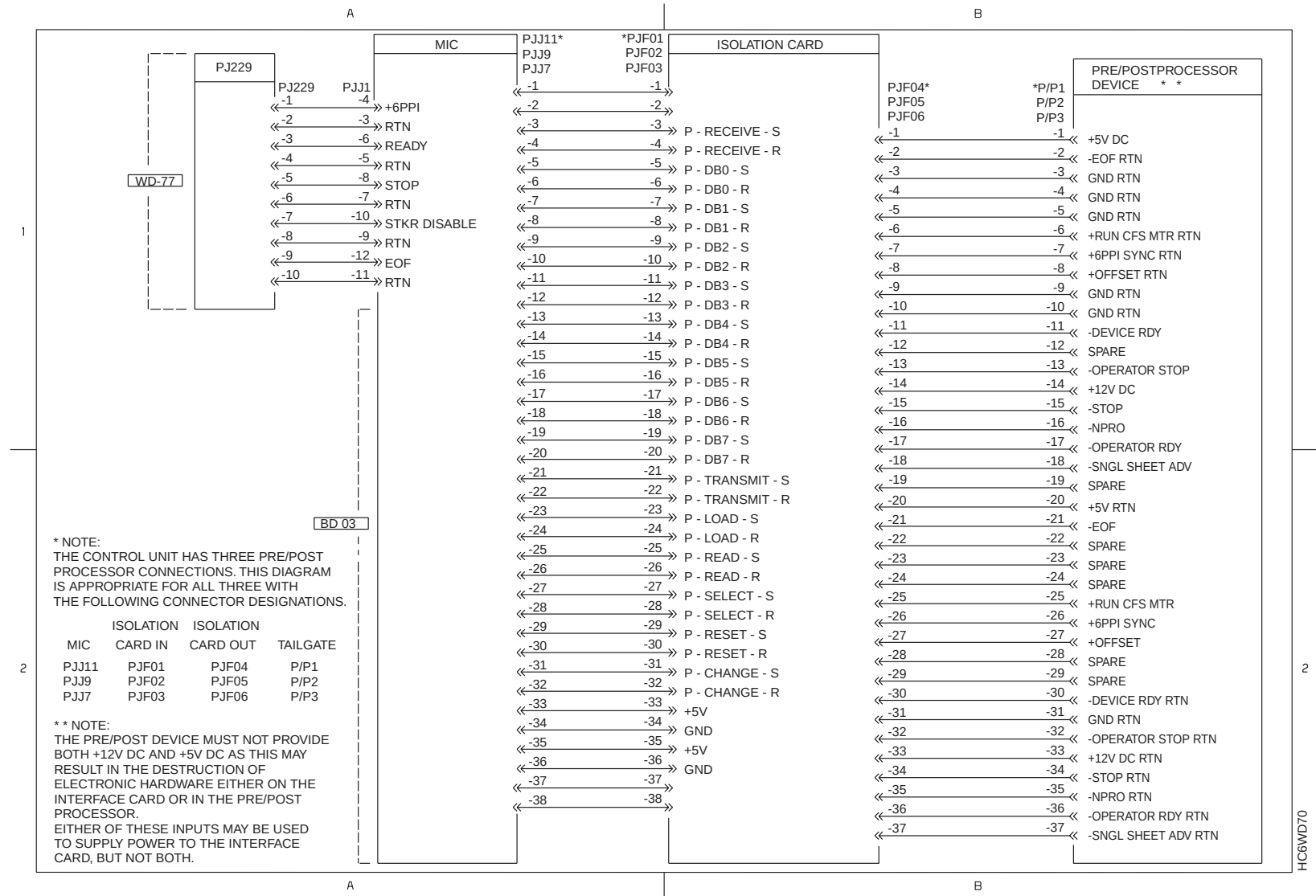
WD68 - MIC to Operator Alert Assembly



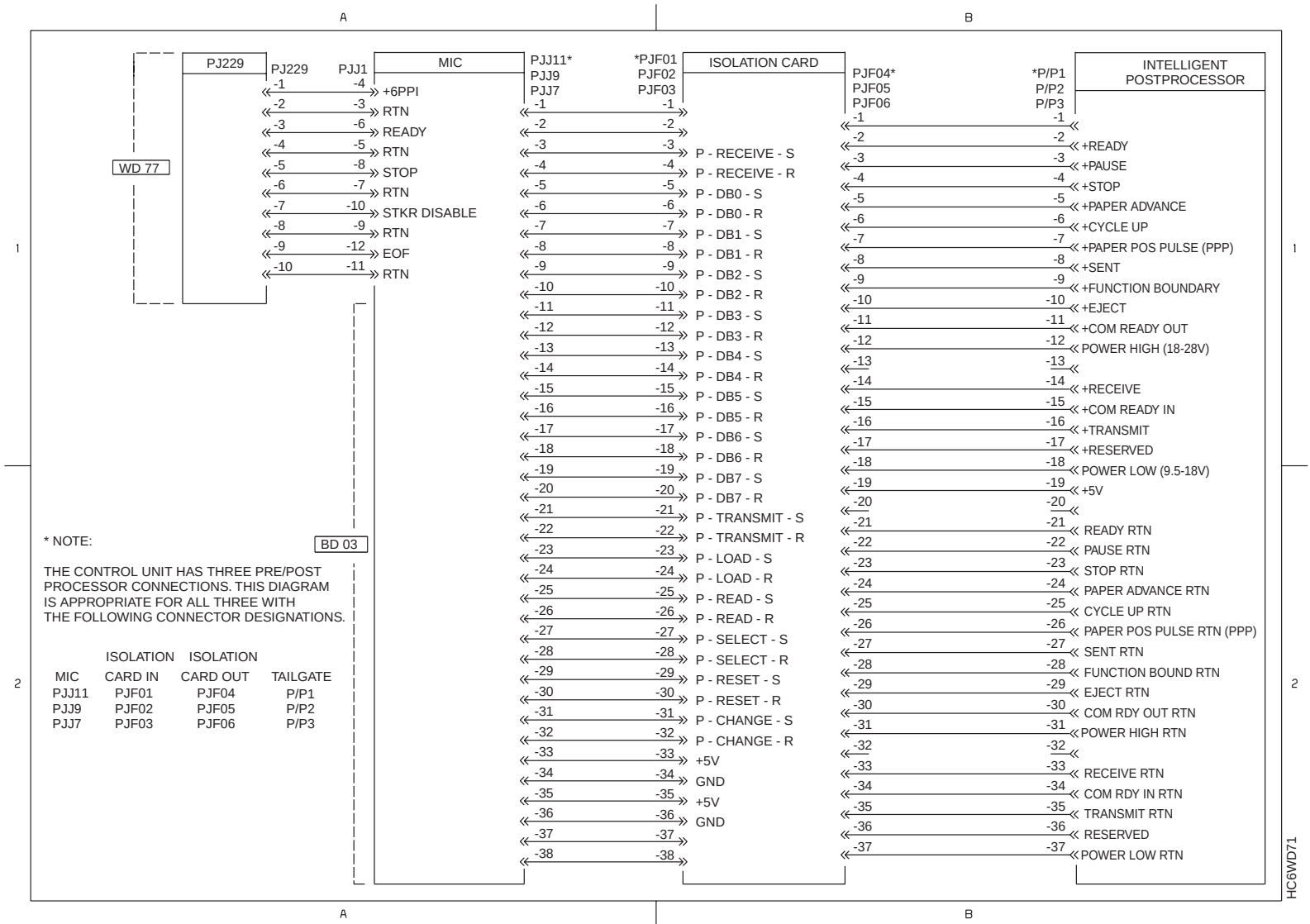
WD69 - PQE



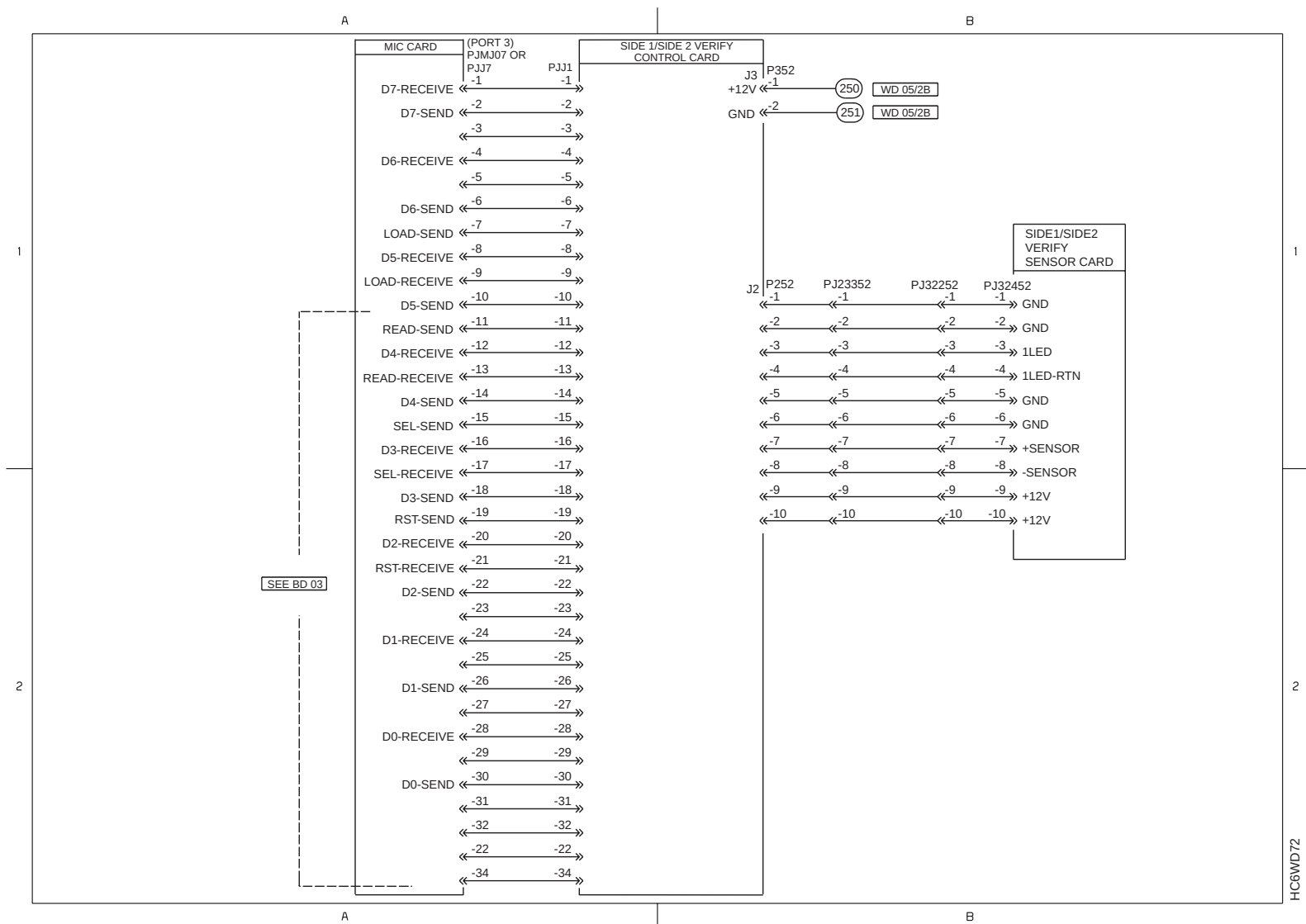
WD70 - MIC to Coupled Pre/Postprocessor Interface



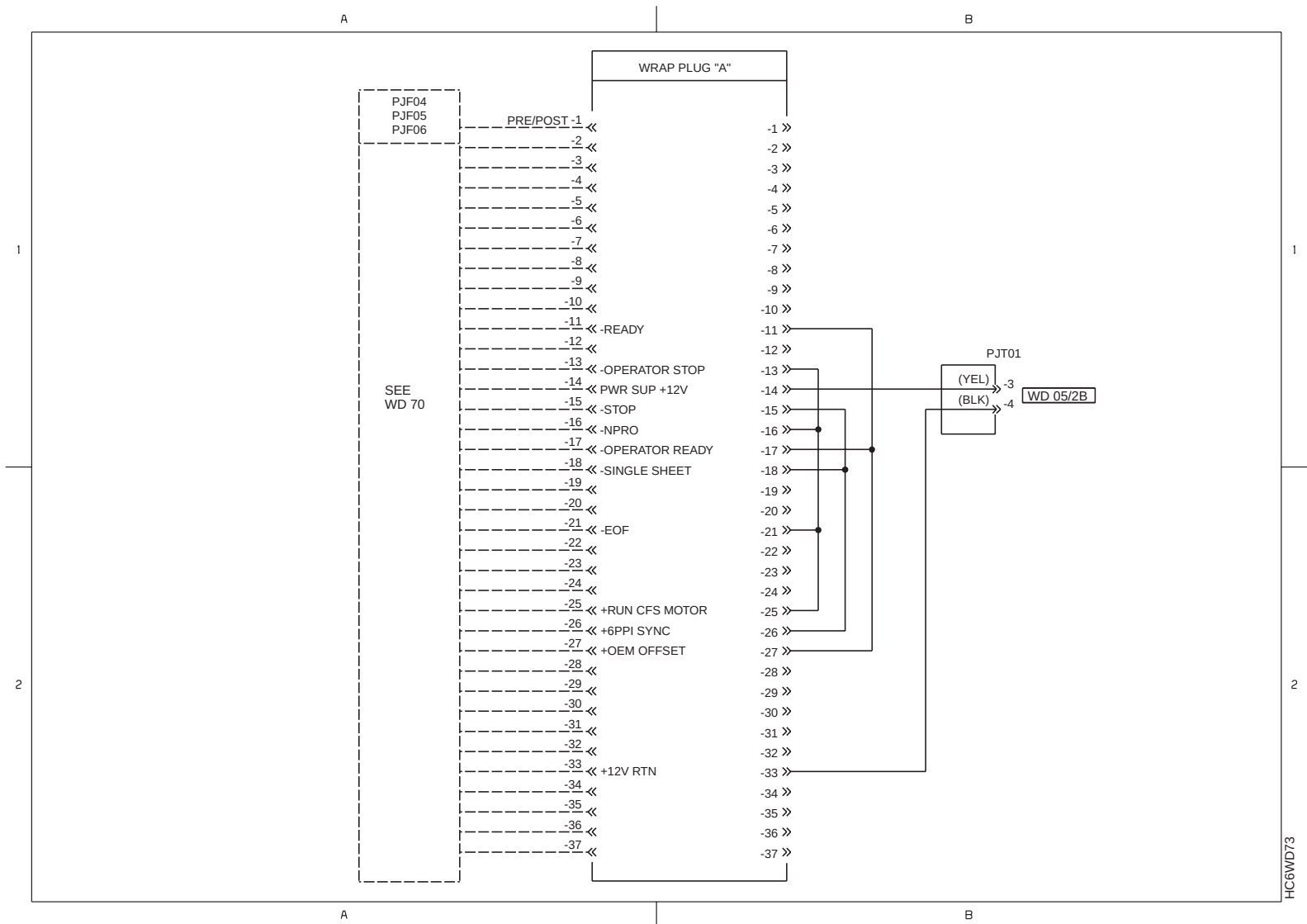
WD71 - MIC to Intelligent Postprocessor



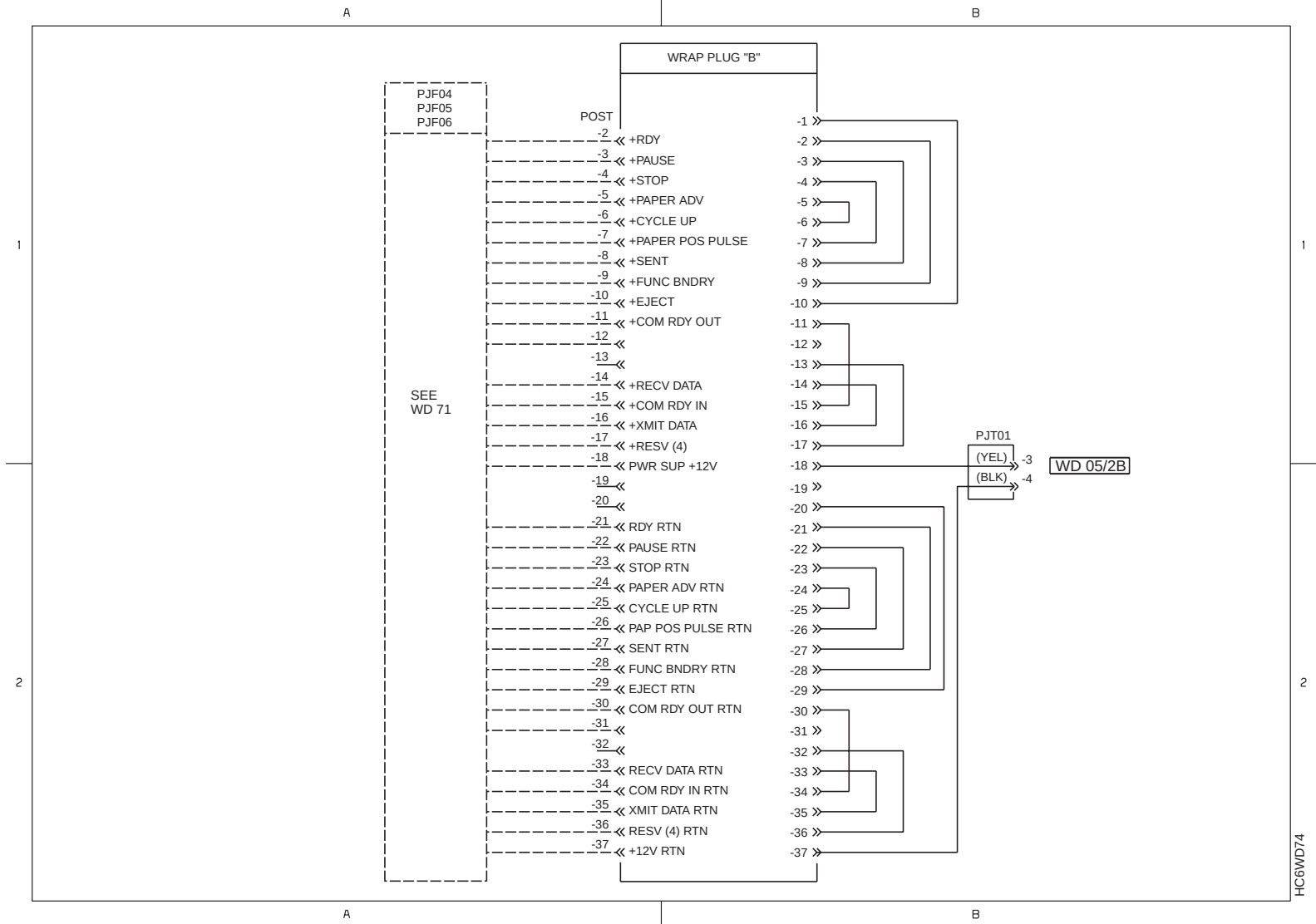
WD72 - Side 1/Side 2 Verify to MIC



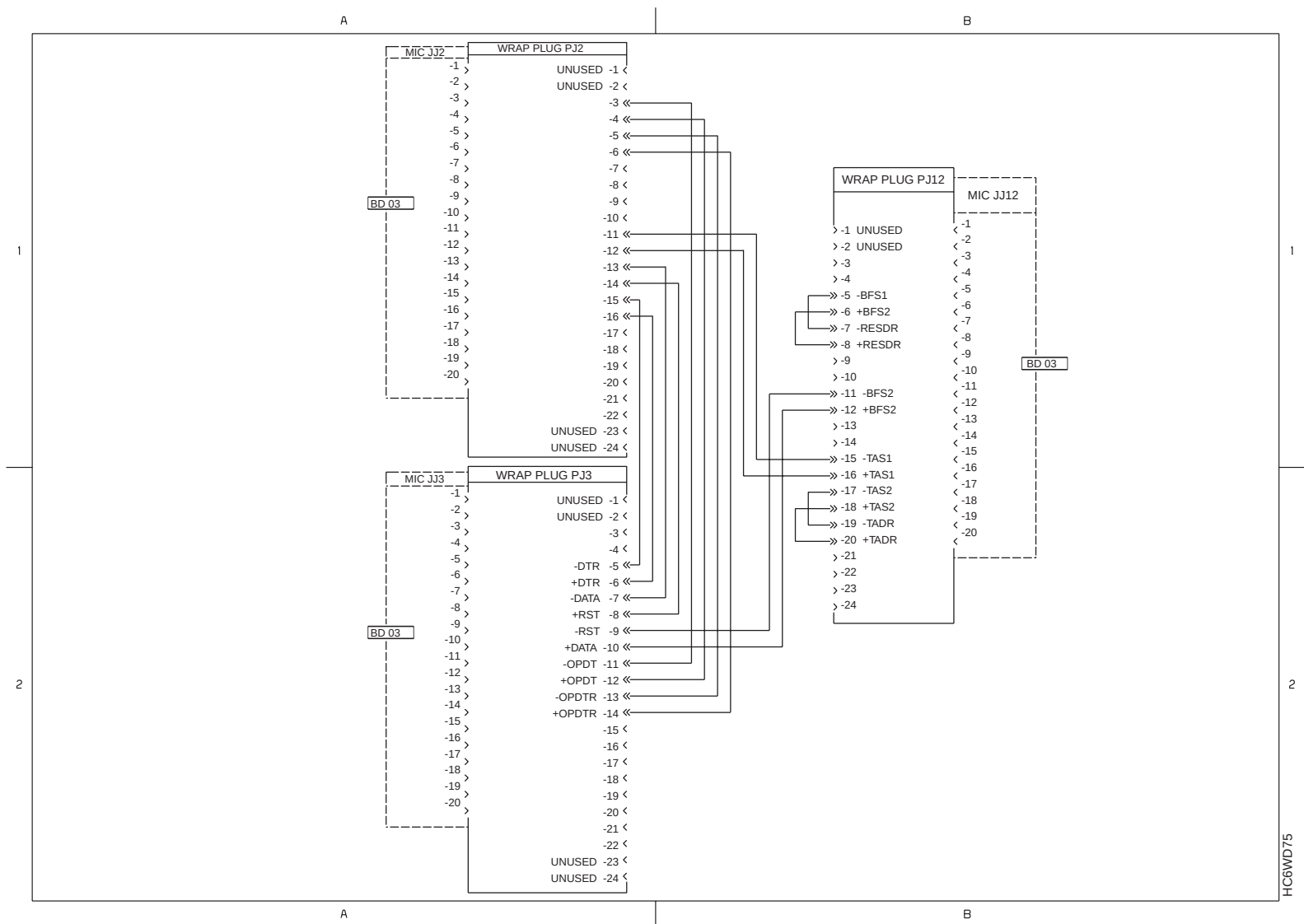
WD73 - Coupled Pre/Post Interface Wrap Plug A



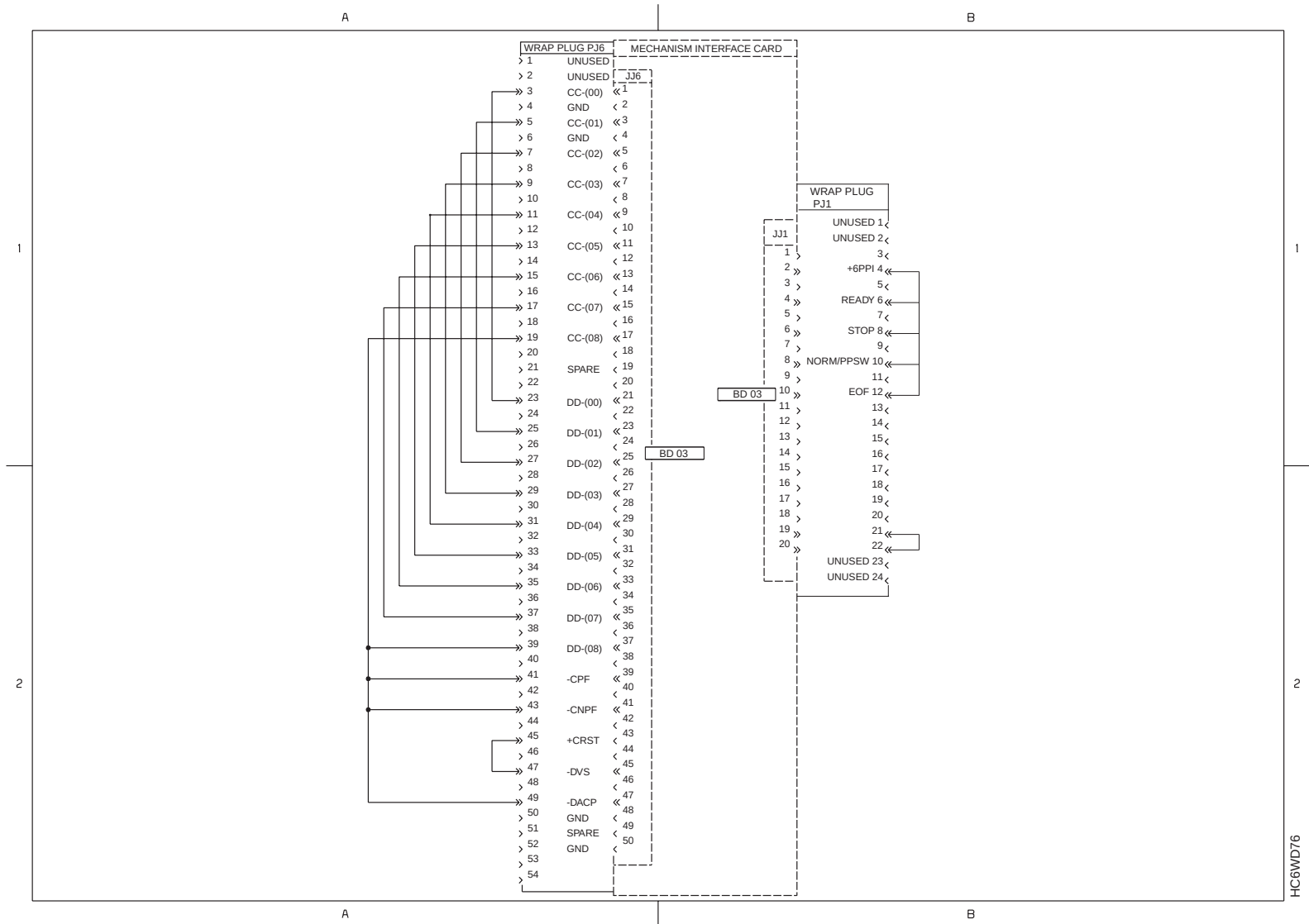
WD74 - Intelligent Postprocessor Int Wrap Plug B



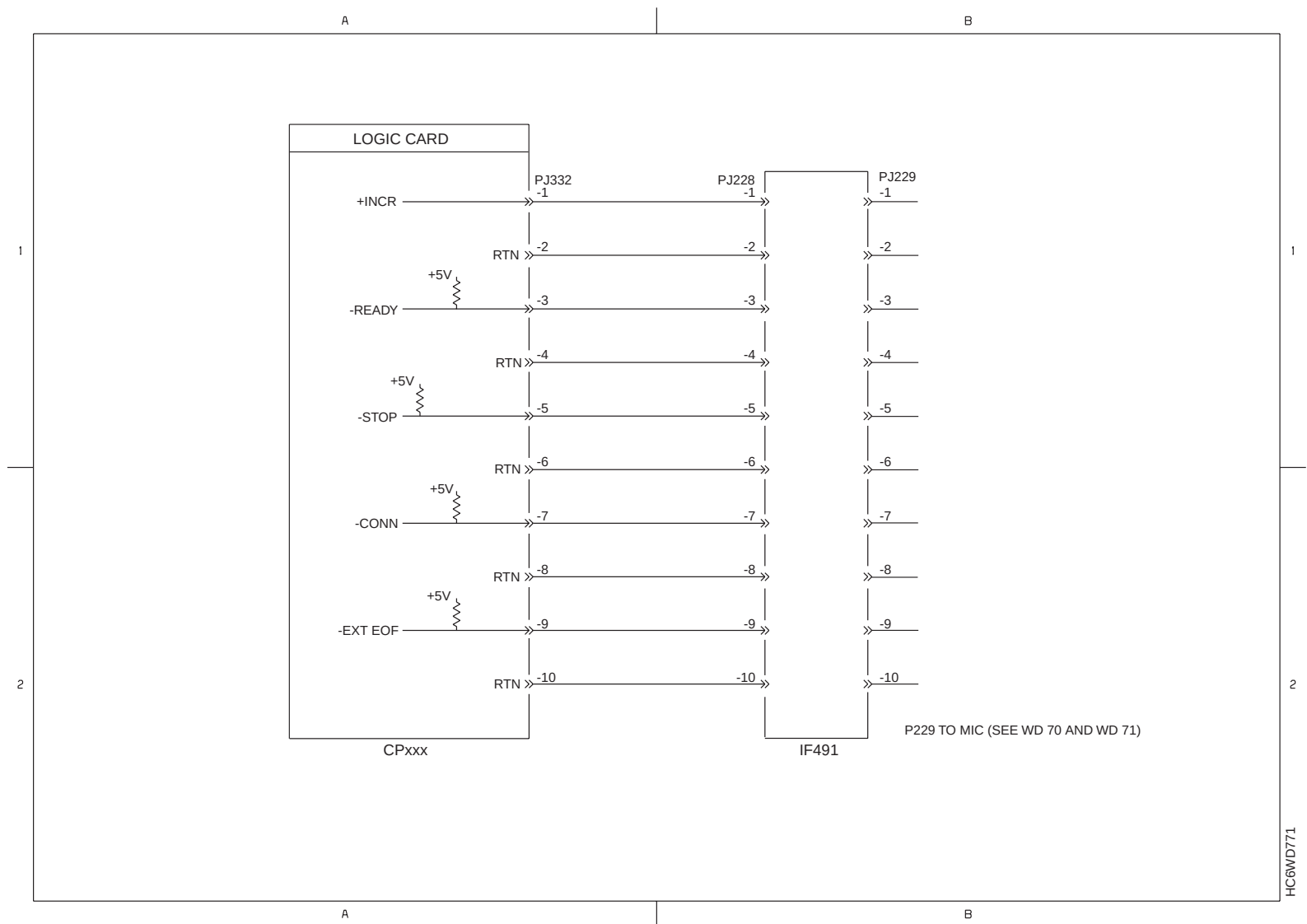
WD75 - MIC Wrap Cable (PJJ2, PJJ3 and PJJ12)



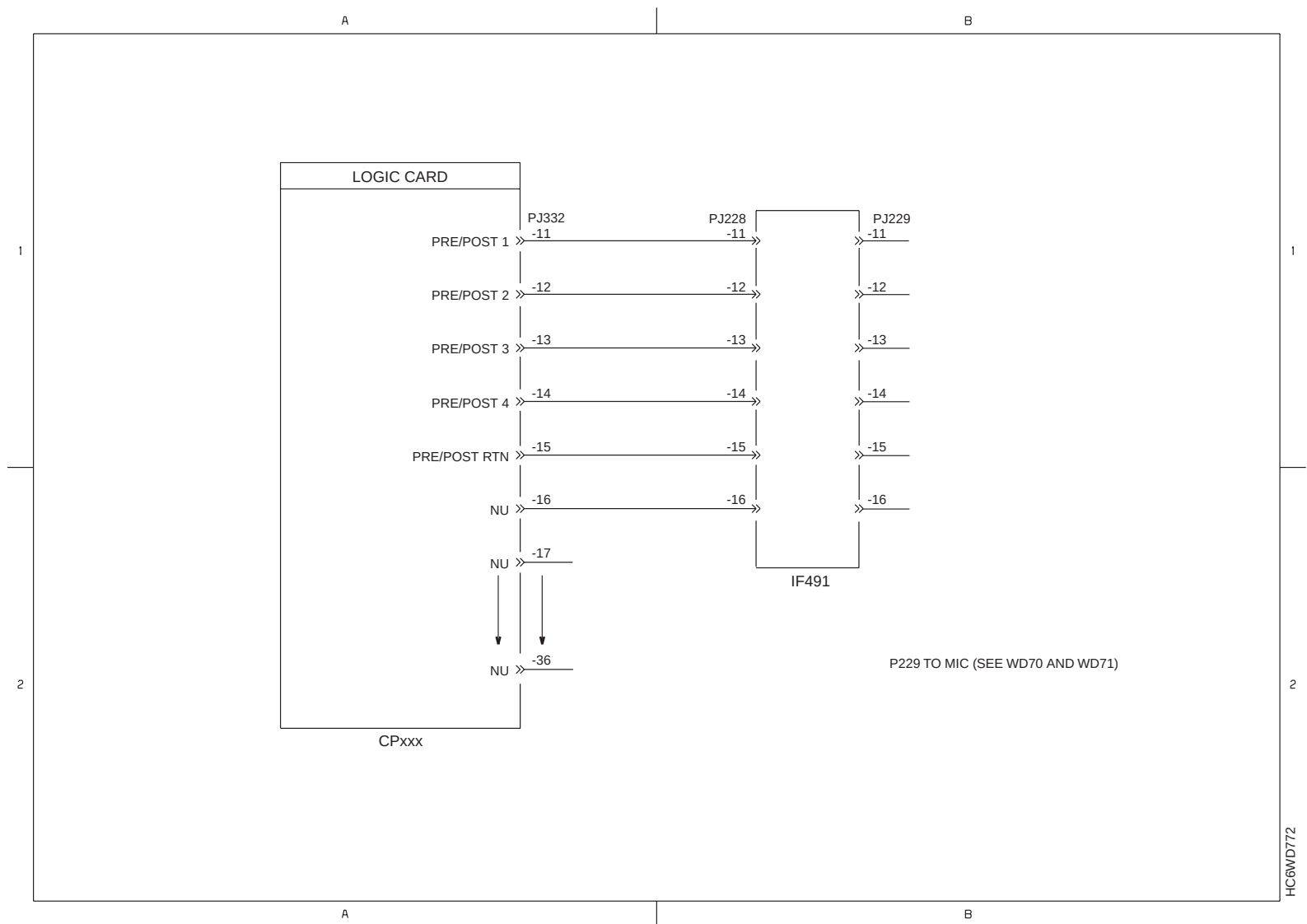
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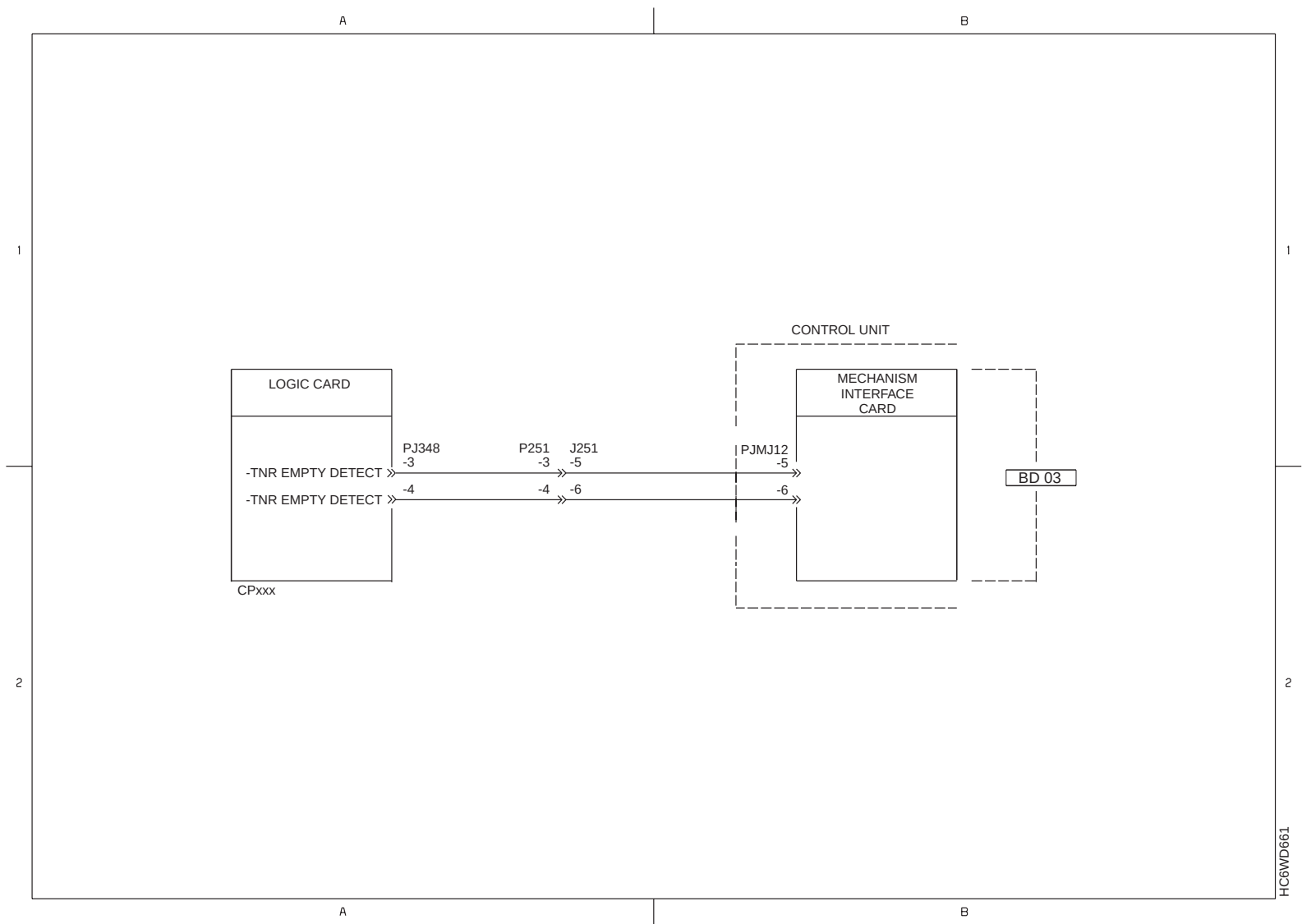
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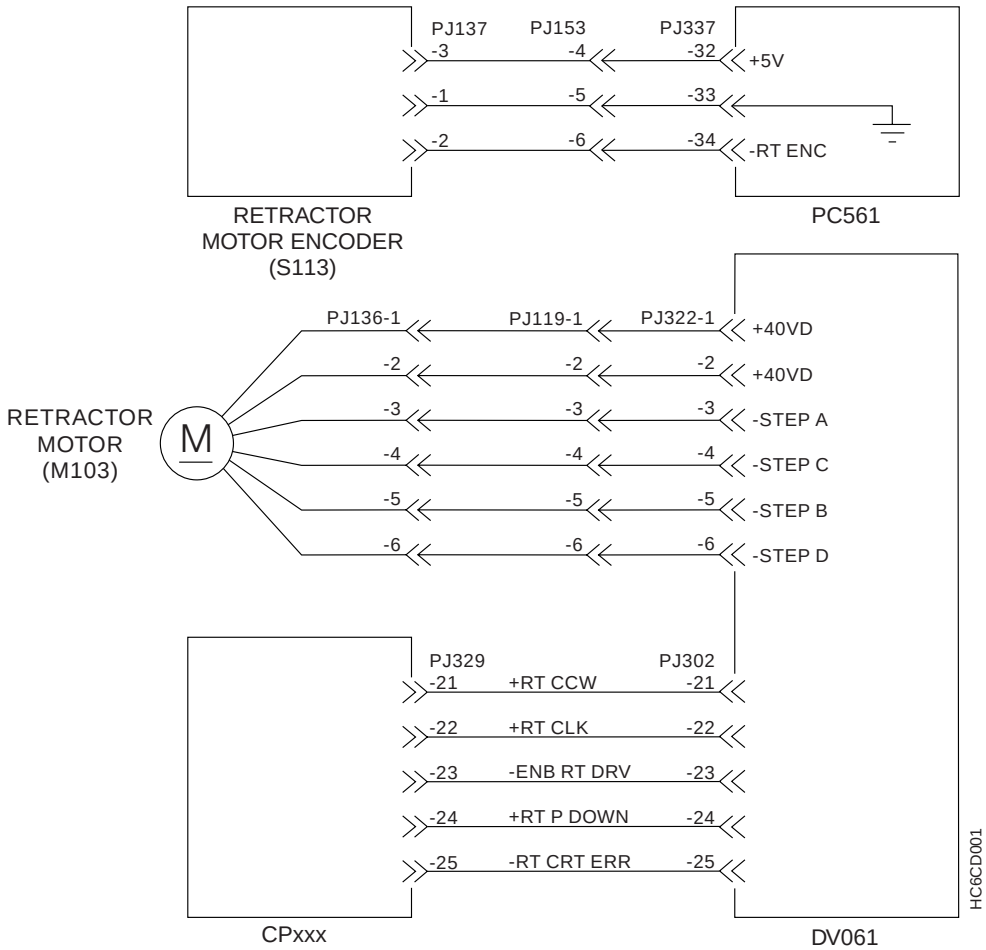
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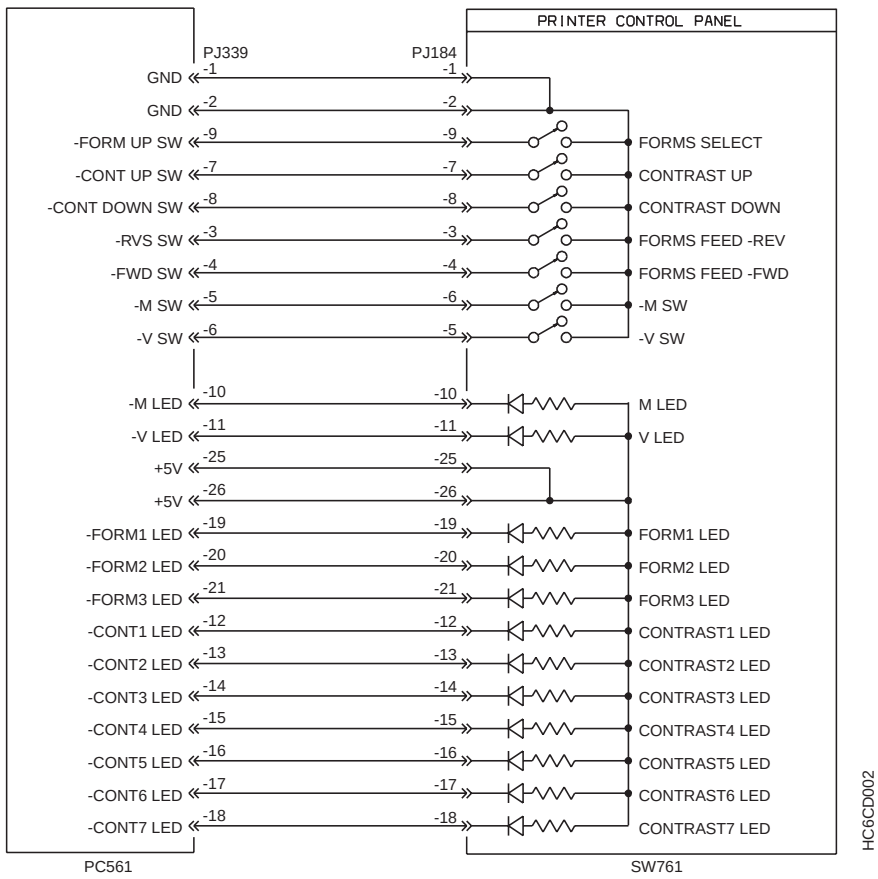
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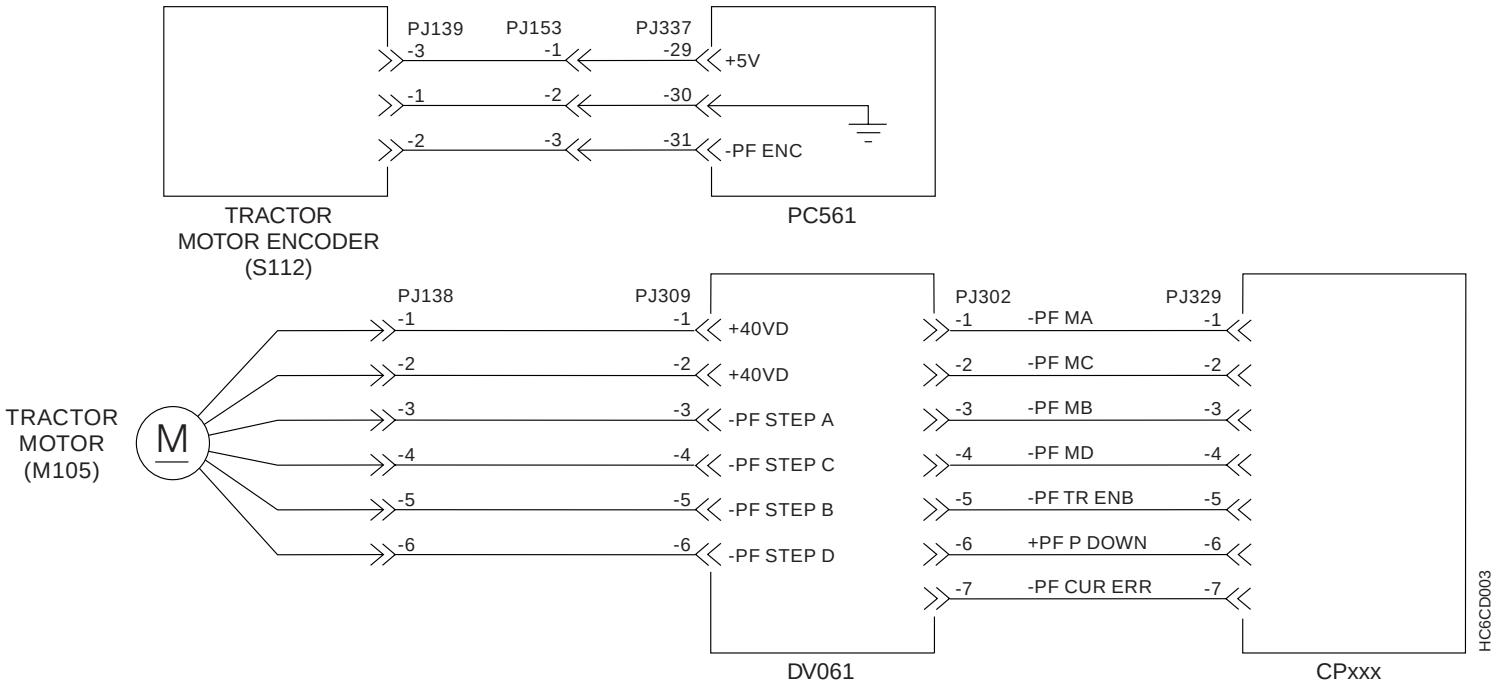
CD01 - Retractor Motor (M103)



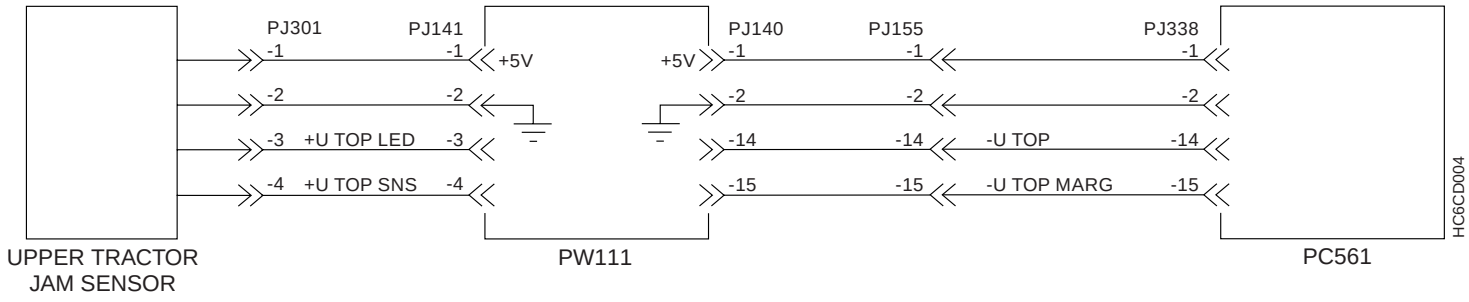
CD02 - Printer Control Panel (SW761)



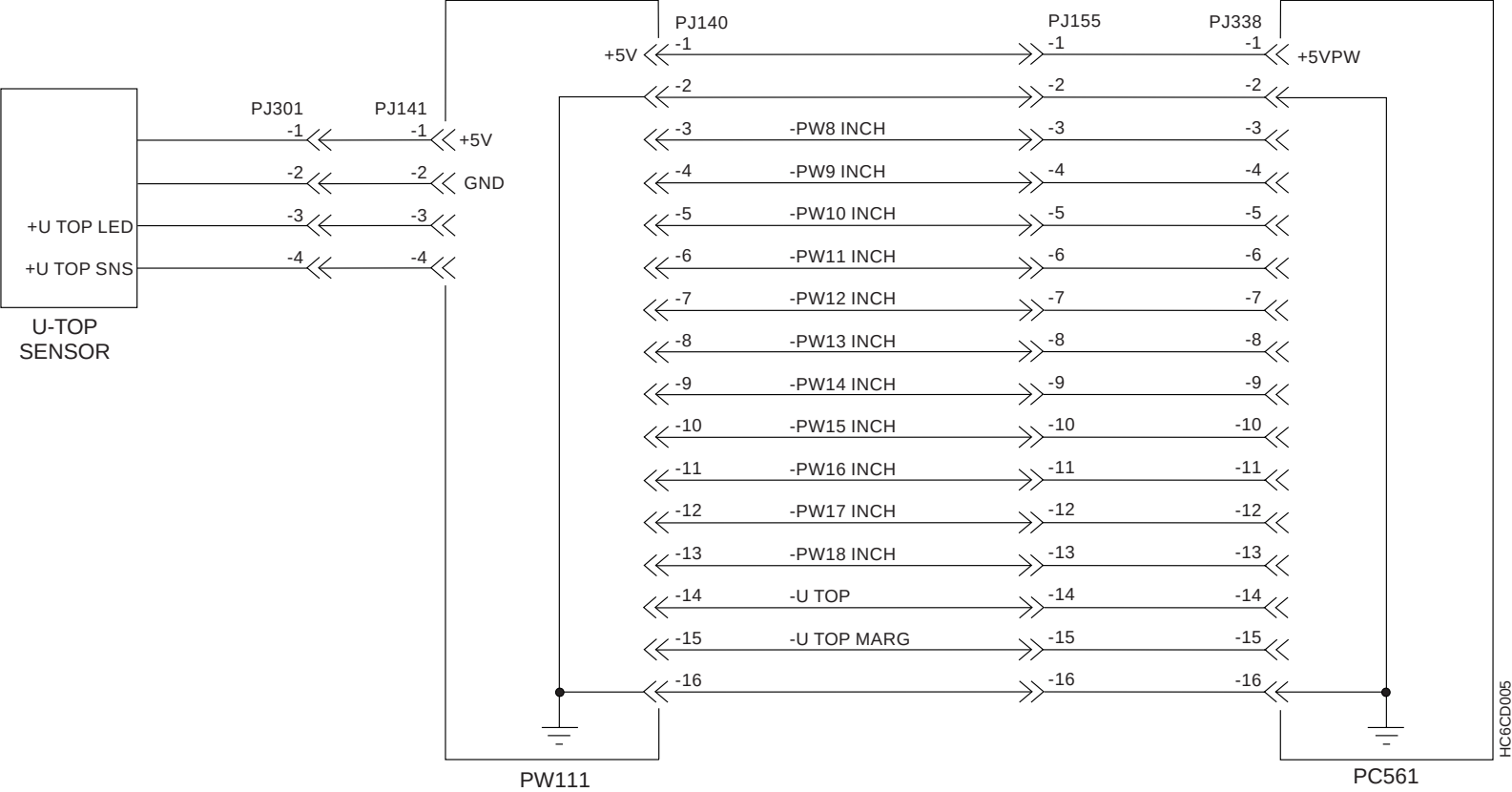
CD03 - Tractor Motor and Encoder (M105)



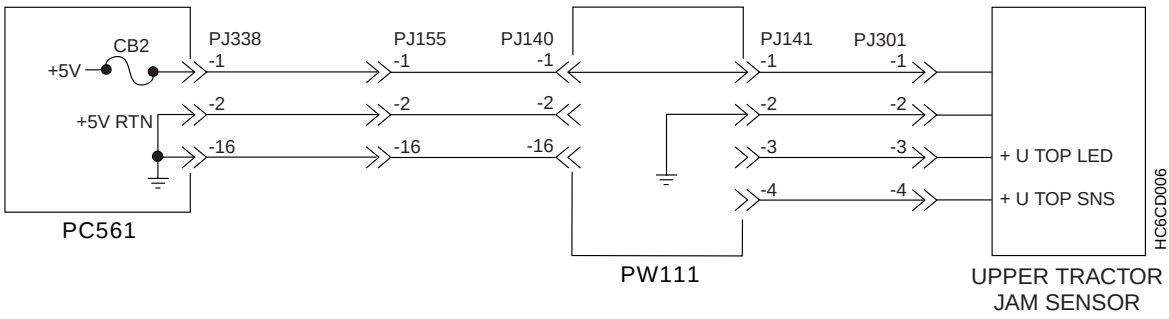
CD04 - Upper Tractor Jam Sensor



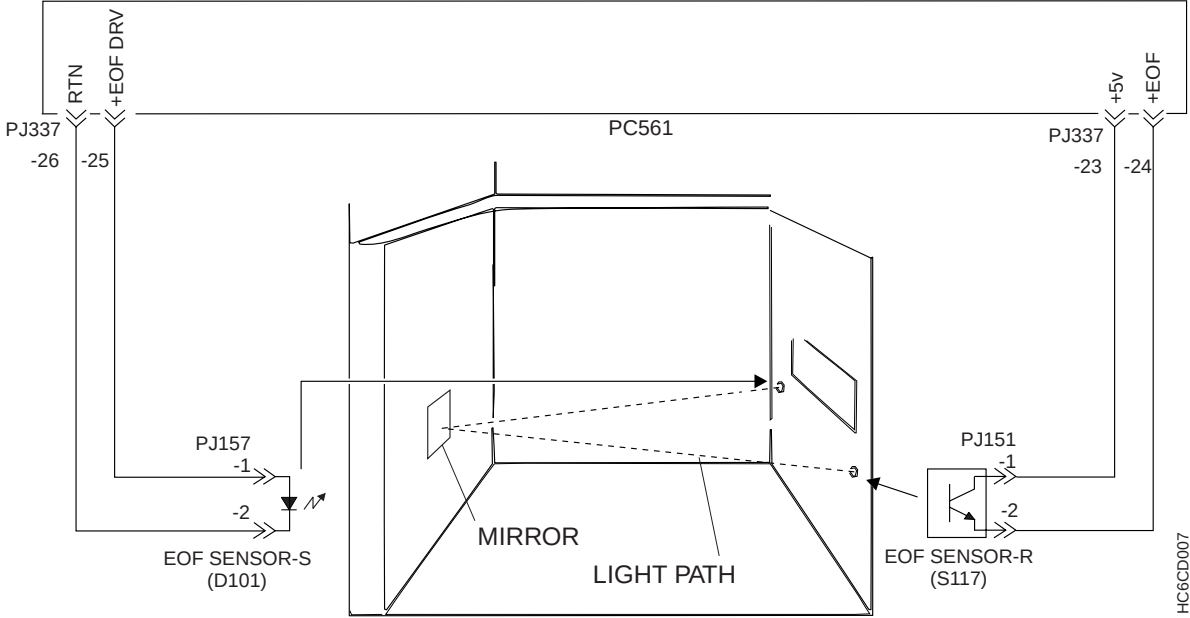
CD05 - Forms Width Hall Sensor



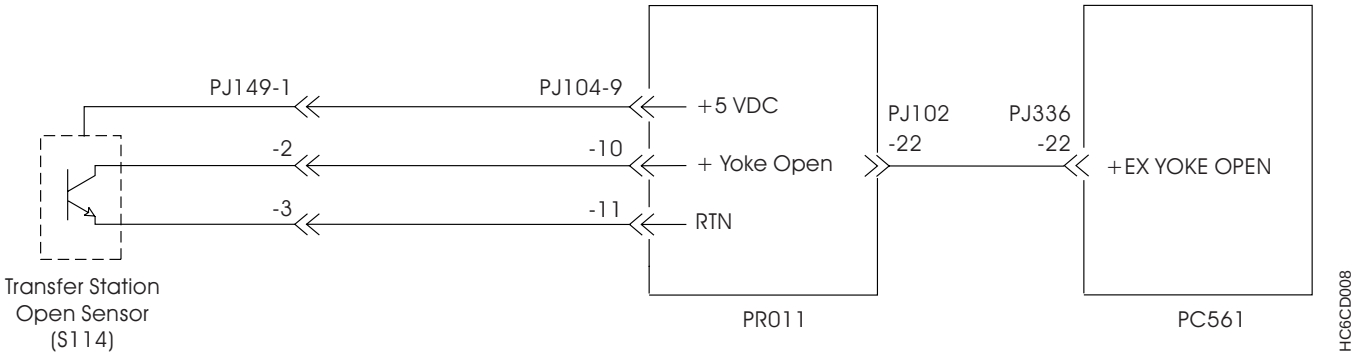
CD06 - Forms Width Sensor Circuit Breaker



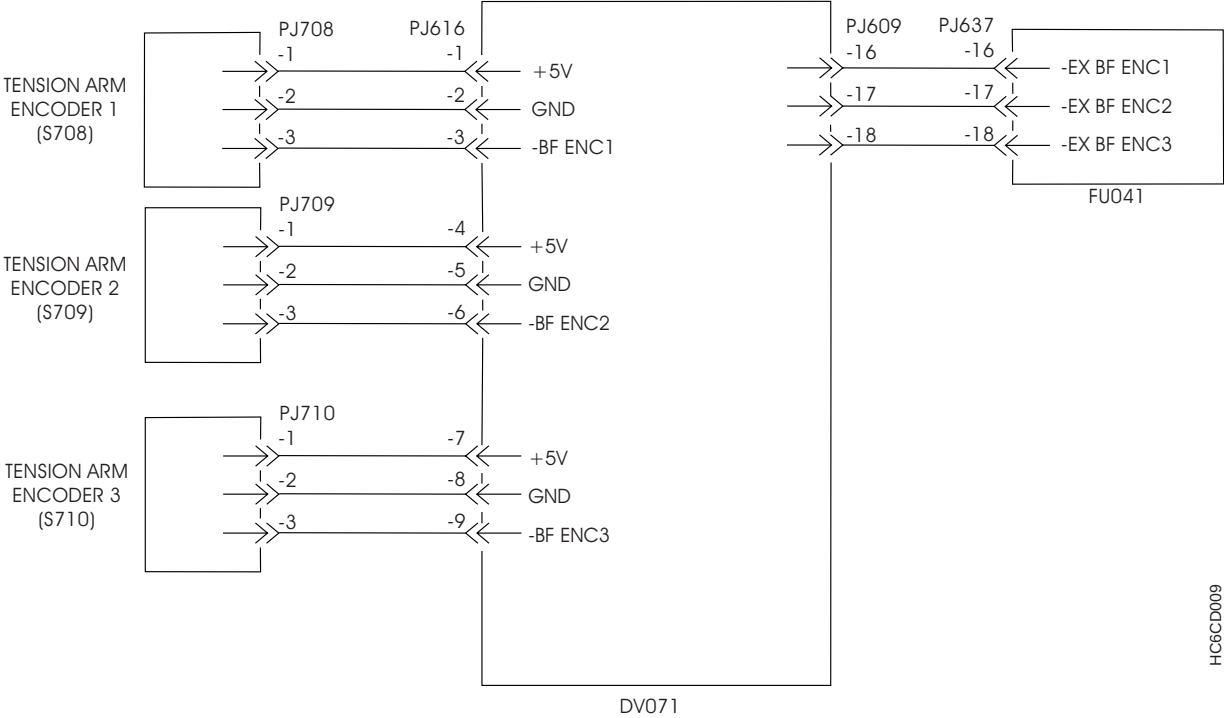
CD07 - End Of Forms Sensor (S117)



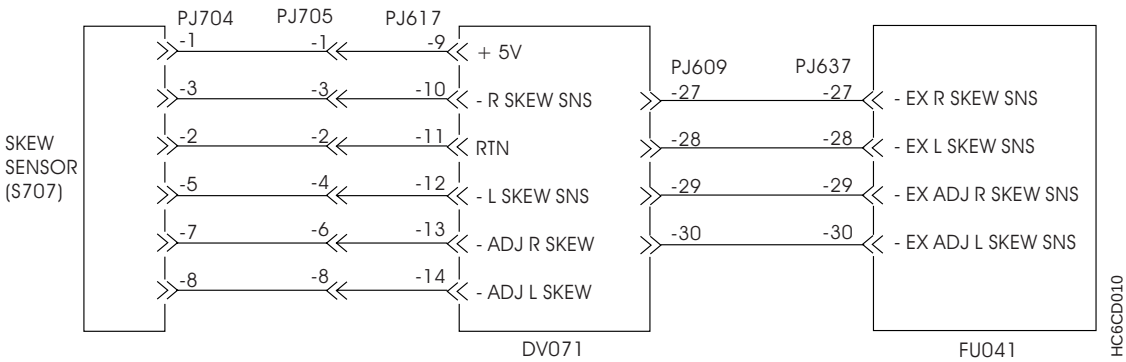
CD08 - Transfer Station Open Sensor (S114)



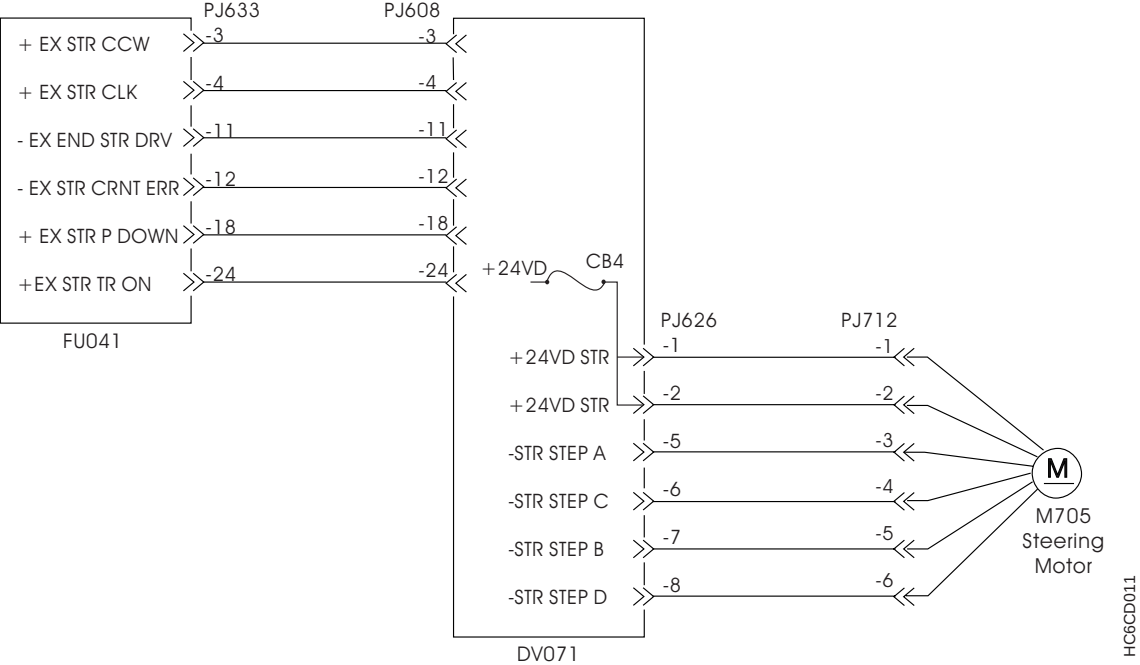
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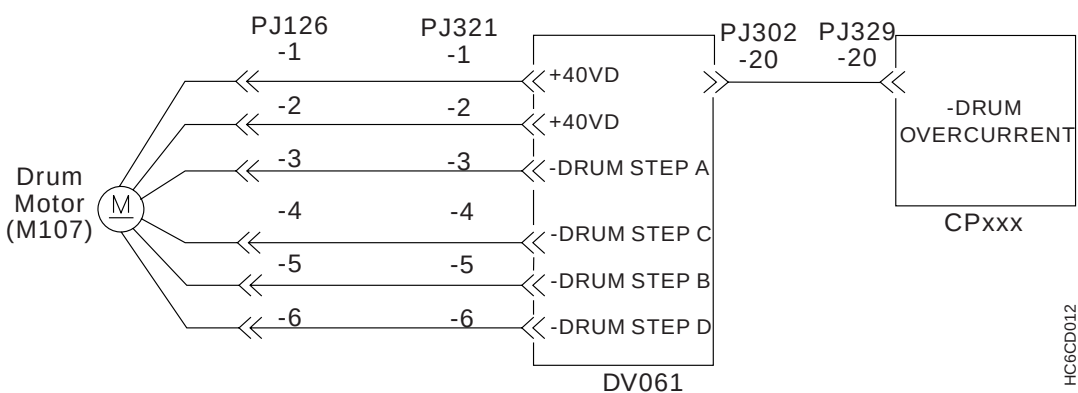
CD10 - Skew Sensor (S707)



CD11 - Steering Motor (M705)

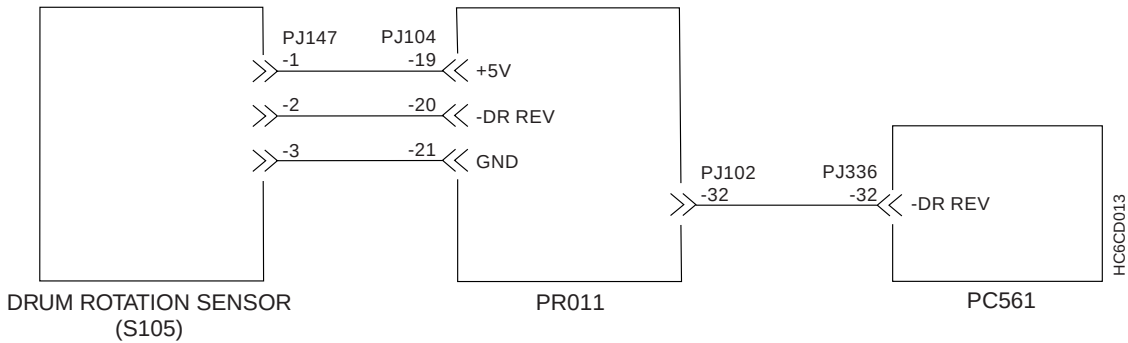


CD12 - Drum Motor (M107) & Overcurrent Detection

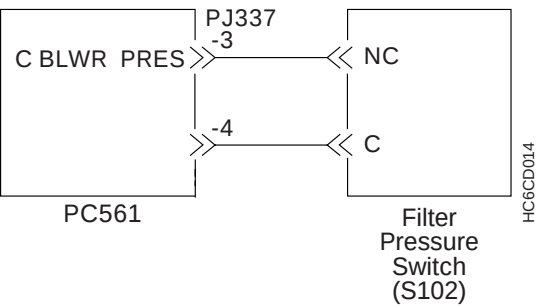


HC6CD012

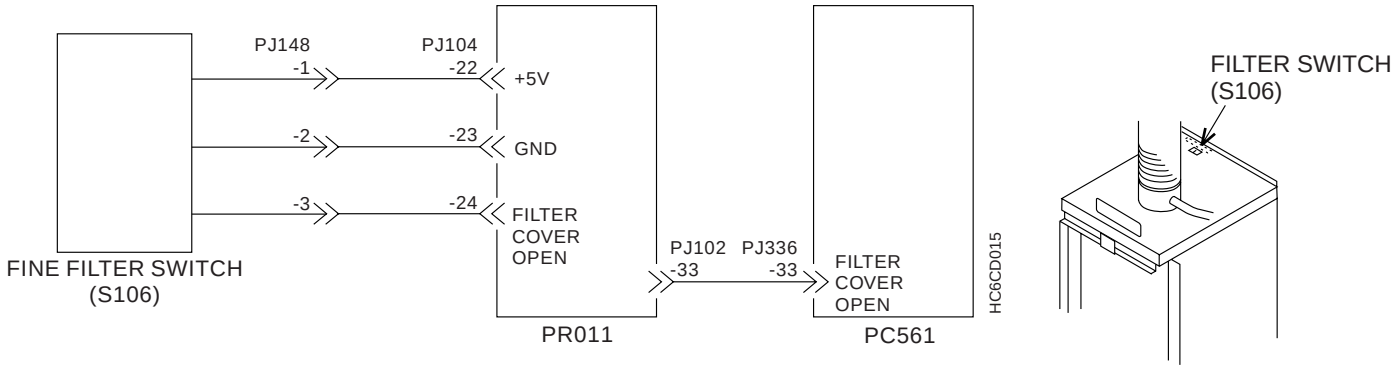
CD13 - Drum Rotation Sensor (S105)



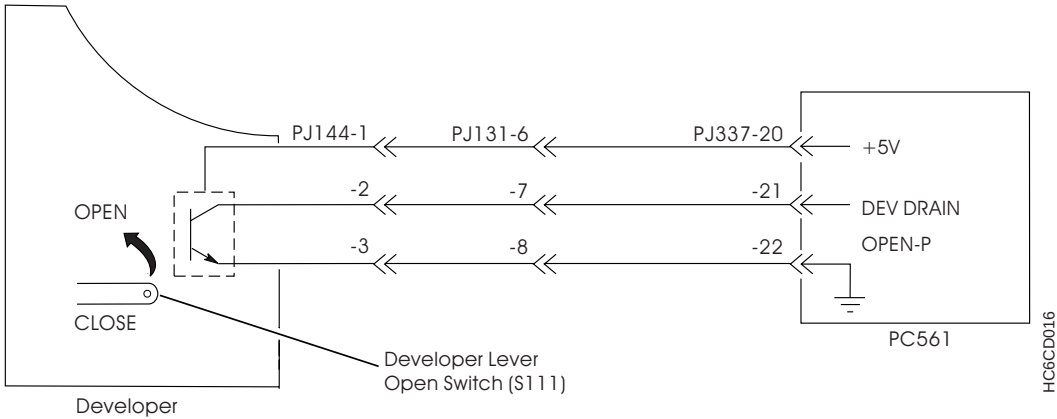
CD14 - Filter Pressure Switch (S102)



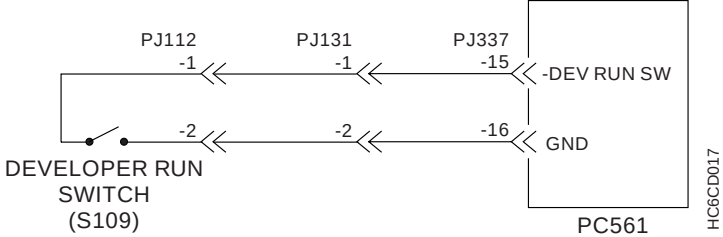
CD15 - Fine Filter Switch (S106)



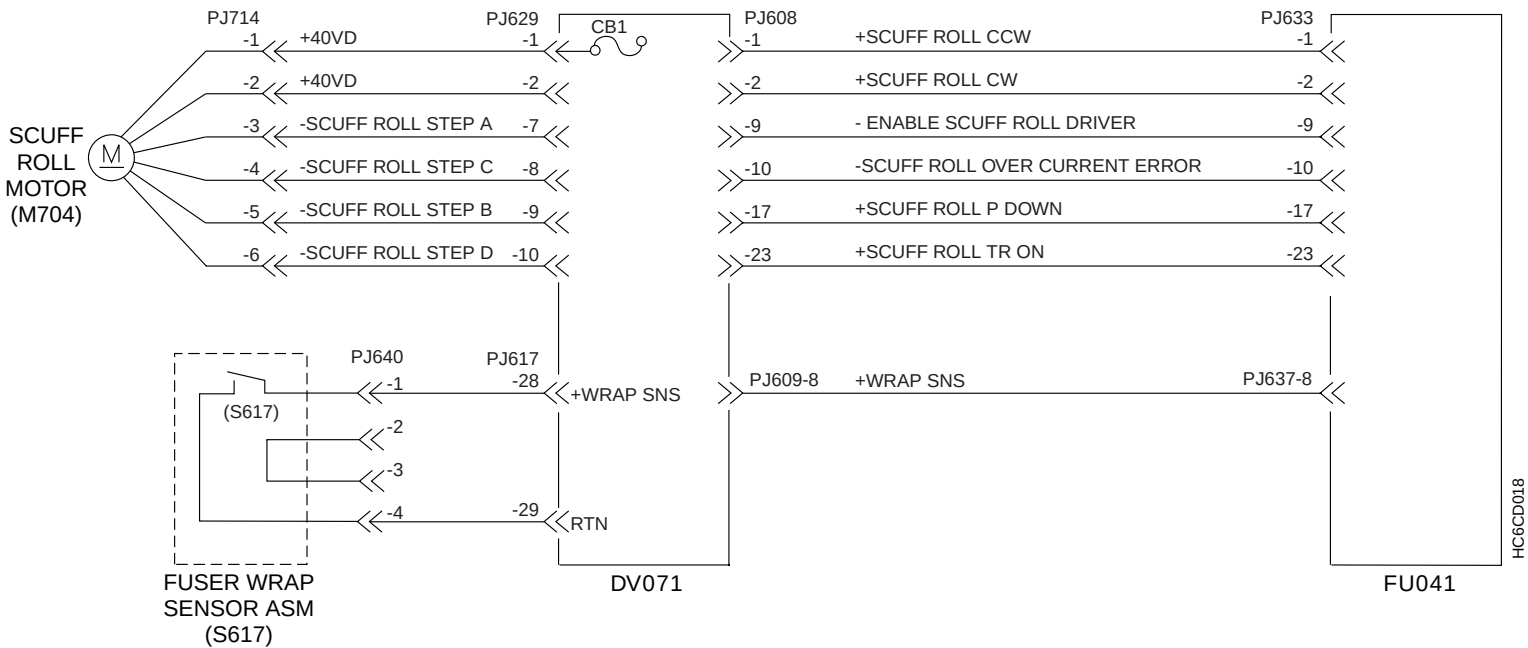
CD16 - Developer Drain Lever Switch (S111)



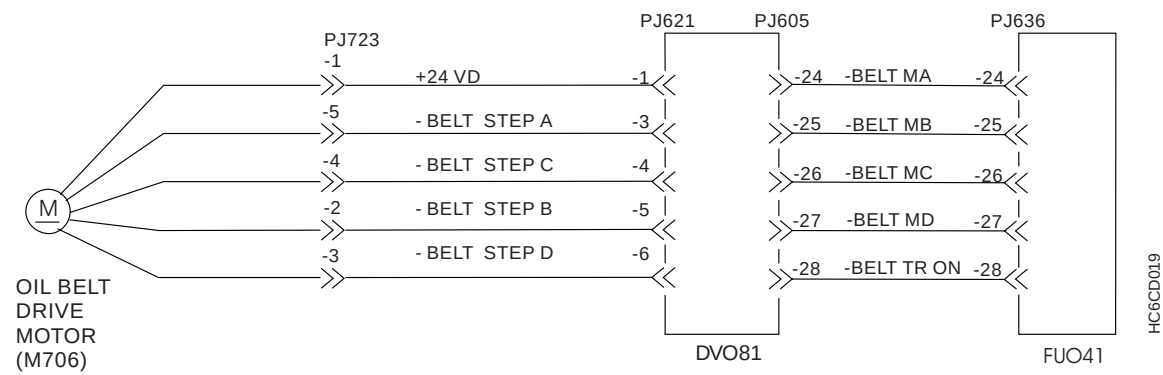
CD17 - Developer Run Switch (S109)



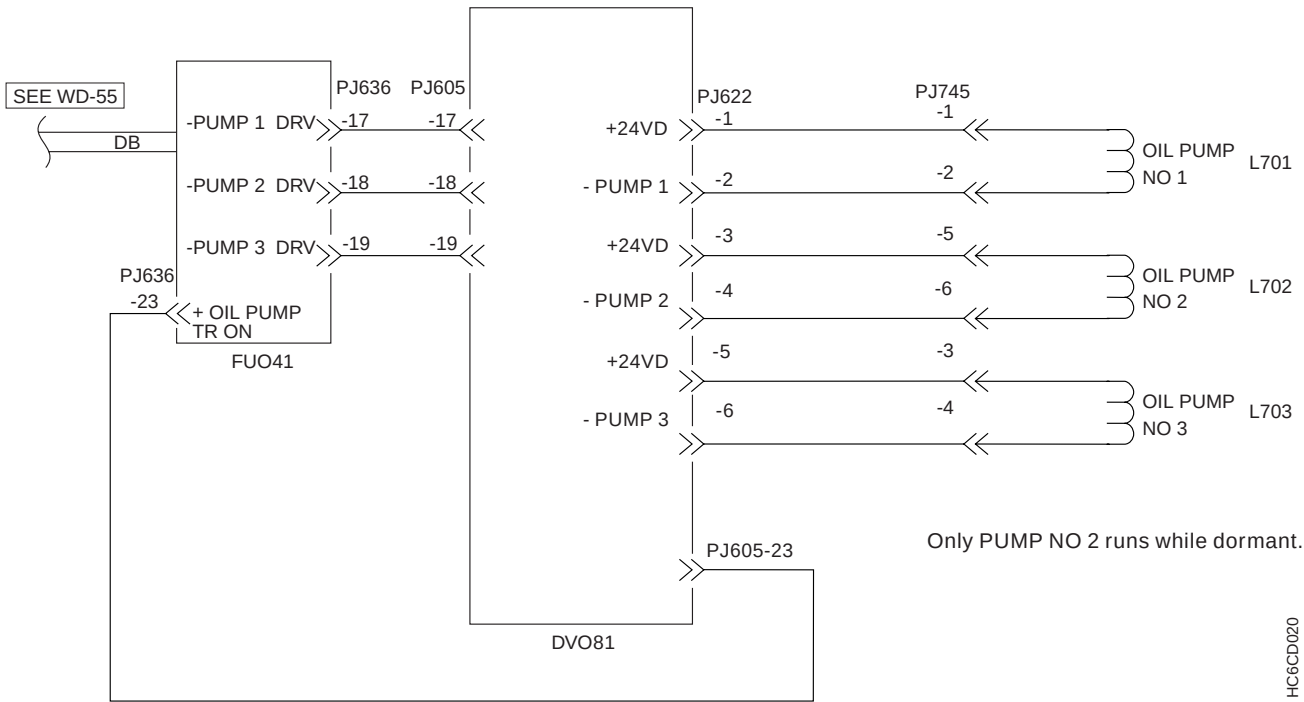
CD18 - Scuff Roll Motor (M704) & Fuser Wrap Sensor (S617)



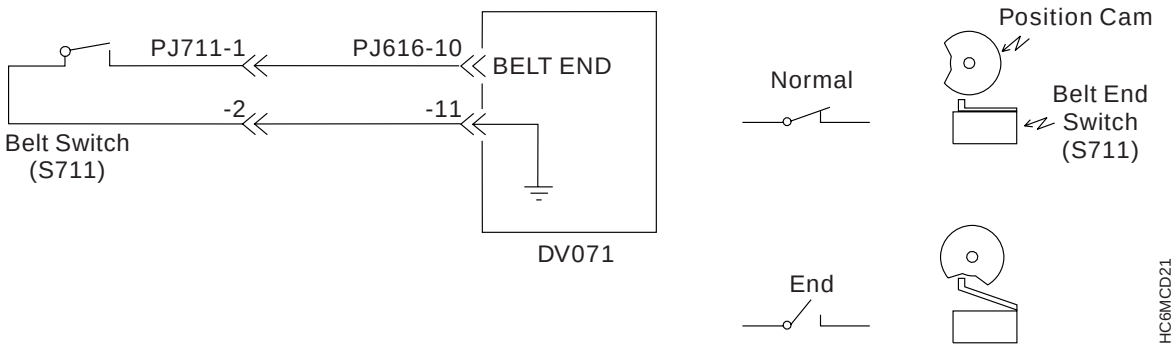
CD19 - Oiler Belt Motor (M706) & Driver



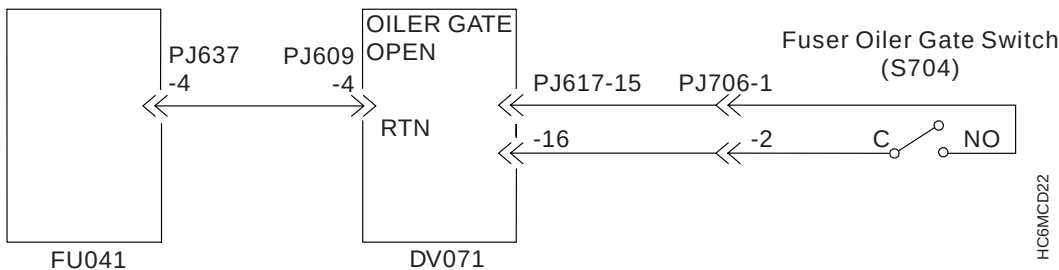
CD20 - Oil Pumps and Driver



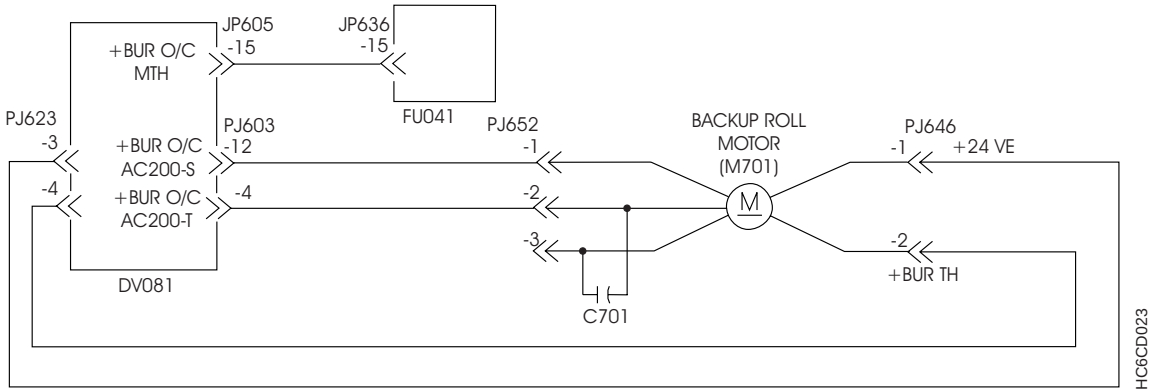
CD21 - Oiler Belt End Switch (S711)



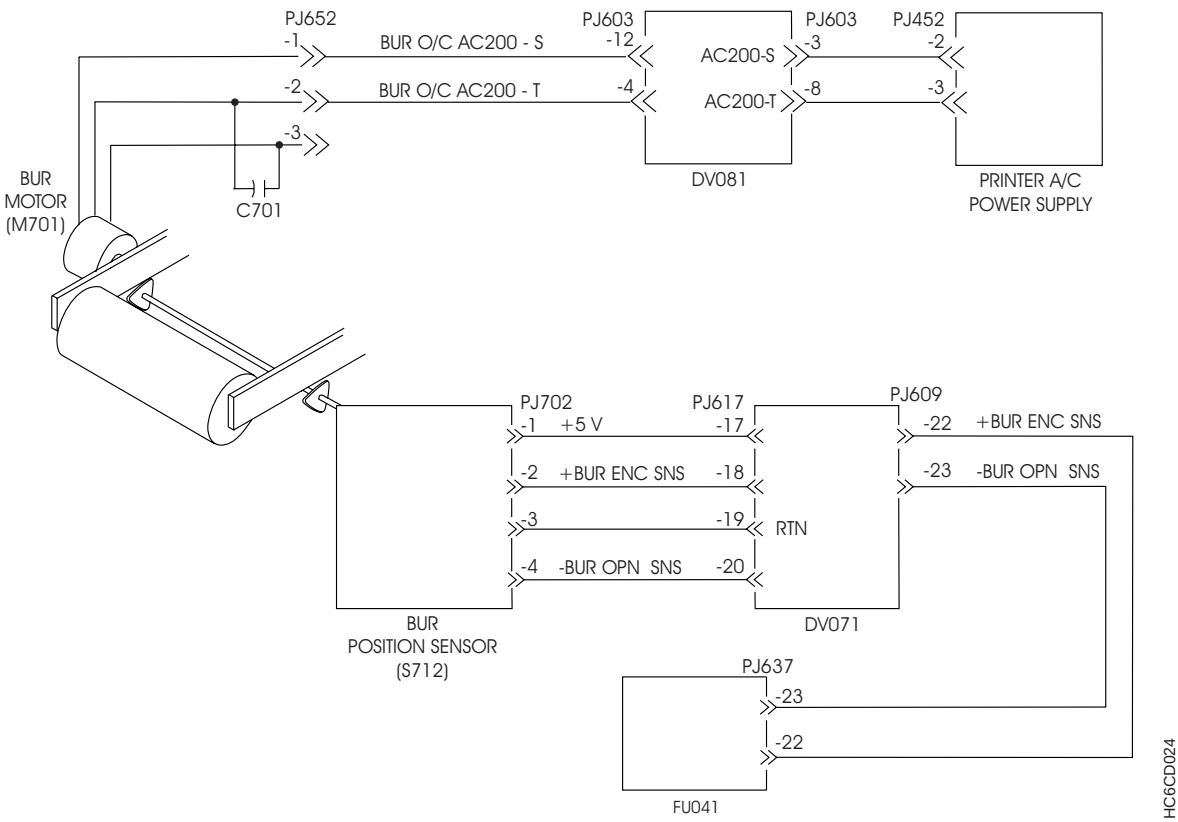
CD22 - Oiler Gate Open Switch (S704)



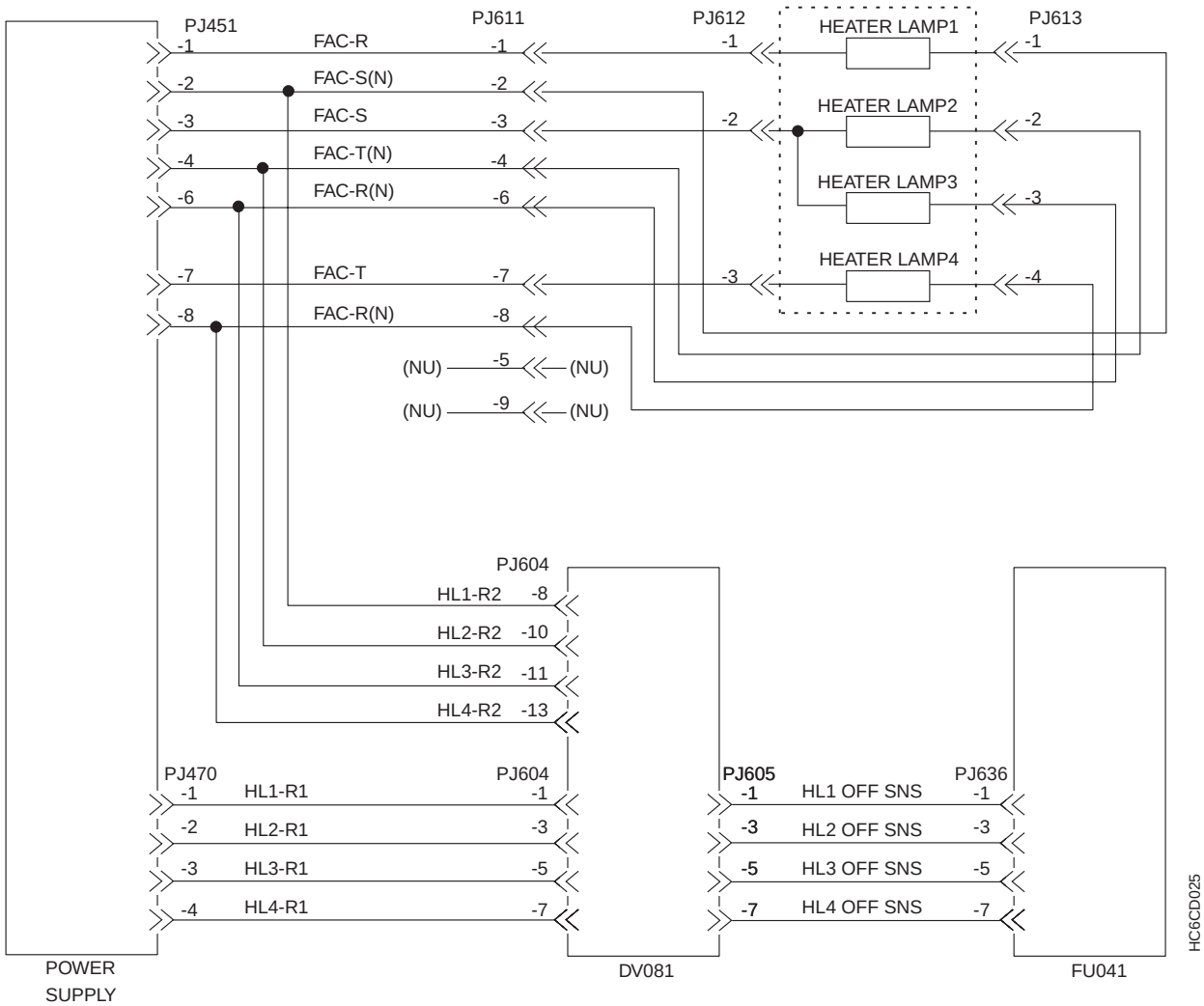
CD23 - Backup-Roll Motor (M701) & Thermal Sense



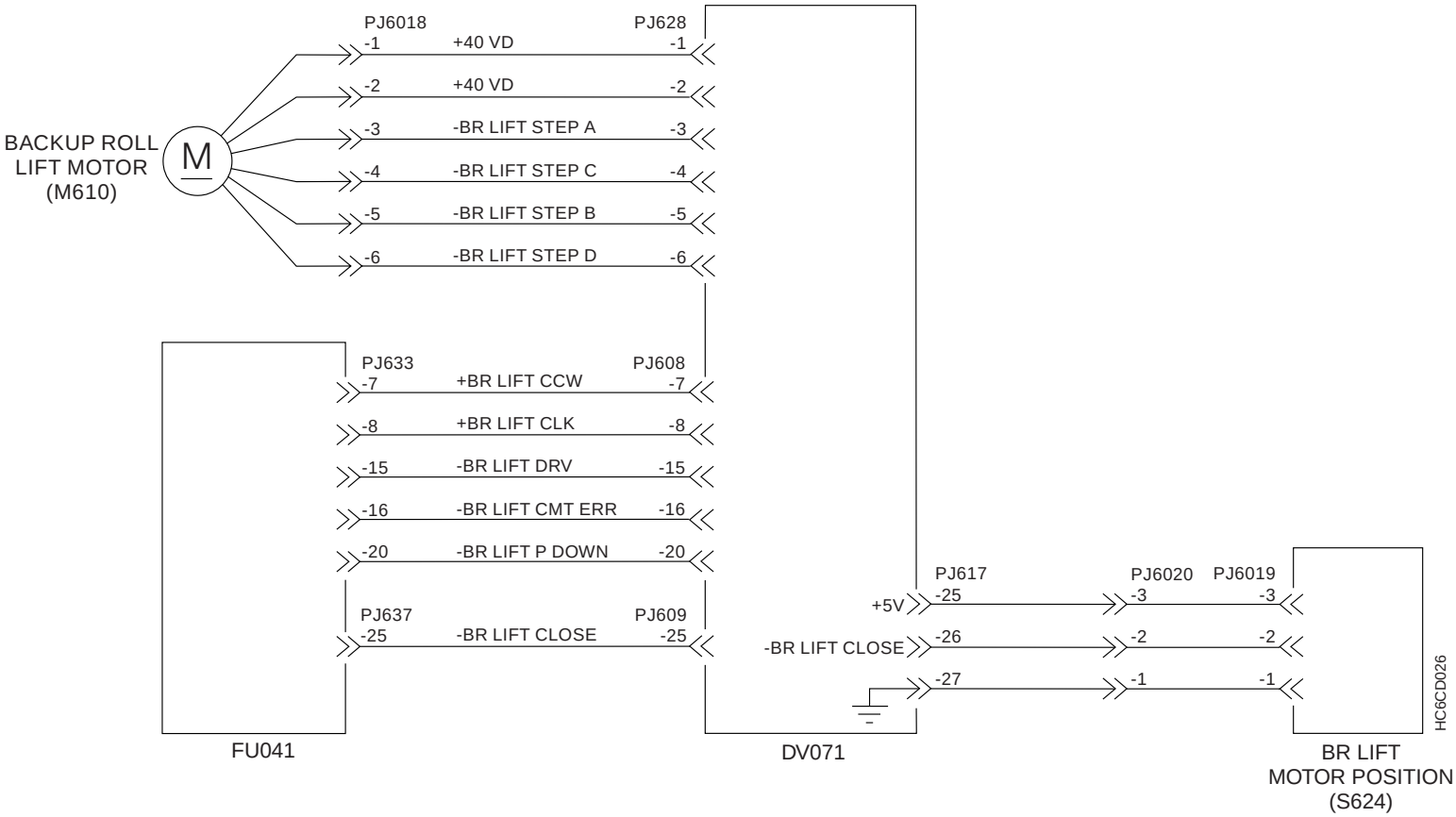
CD24 - Backup-Roll Motor (M701) - Open/Close Mechanism & Position Sensor (S712)



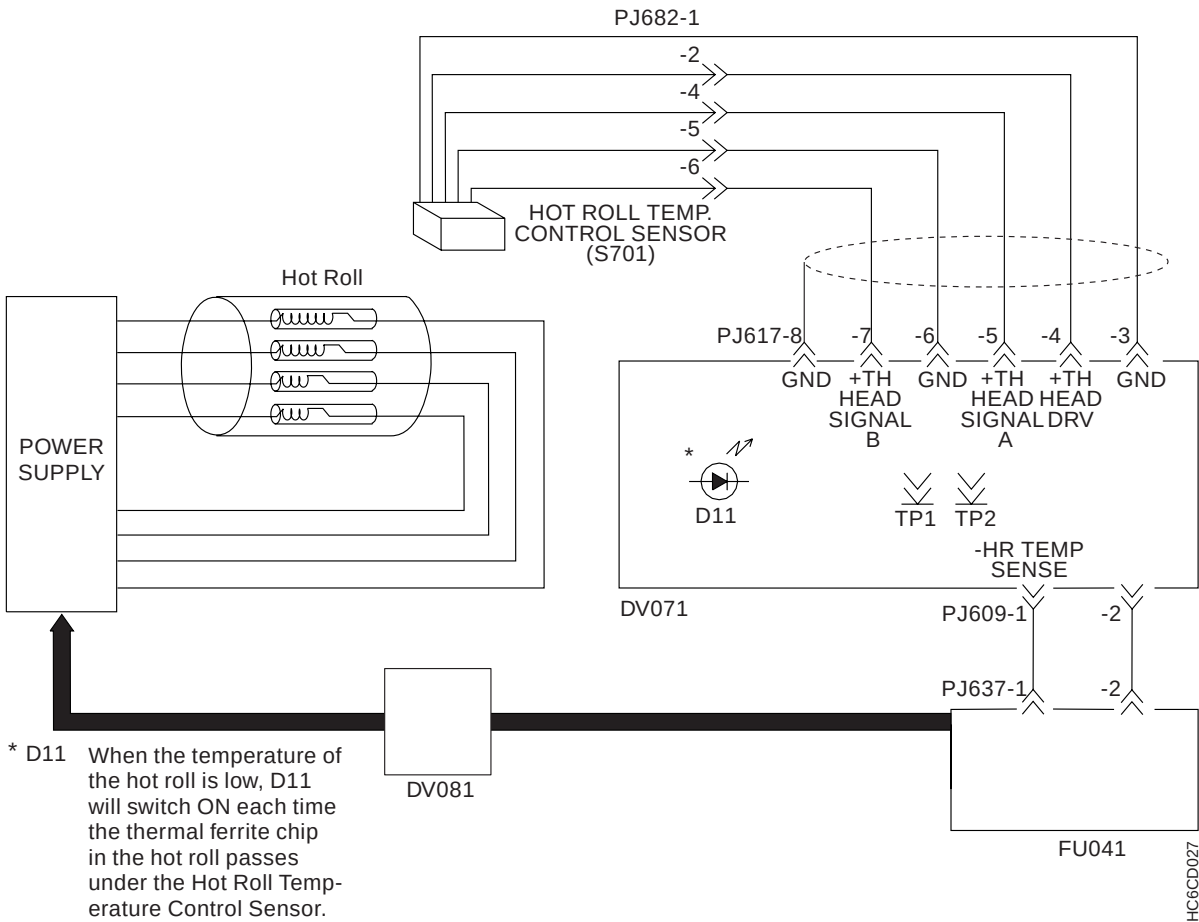
CD25 - Hot Roll



CD26 - Backup Roll Lift Motor (M610) & Position Sensor (S624)

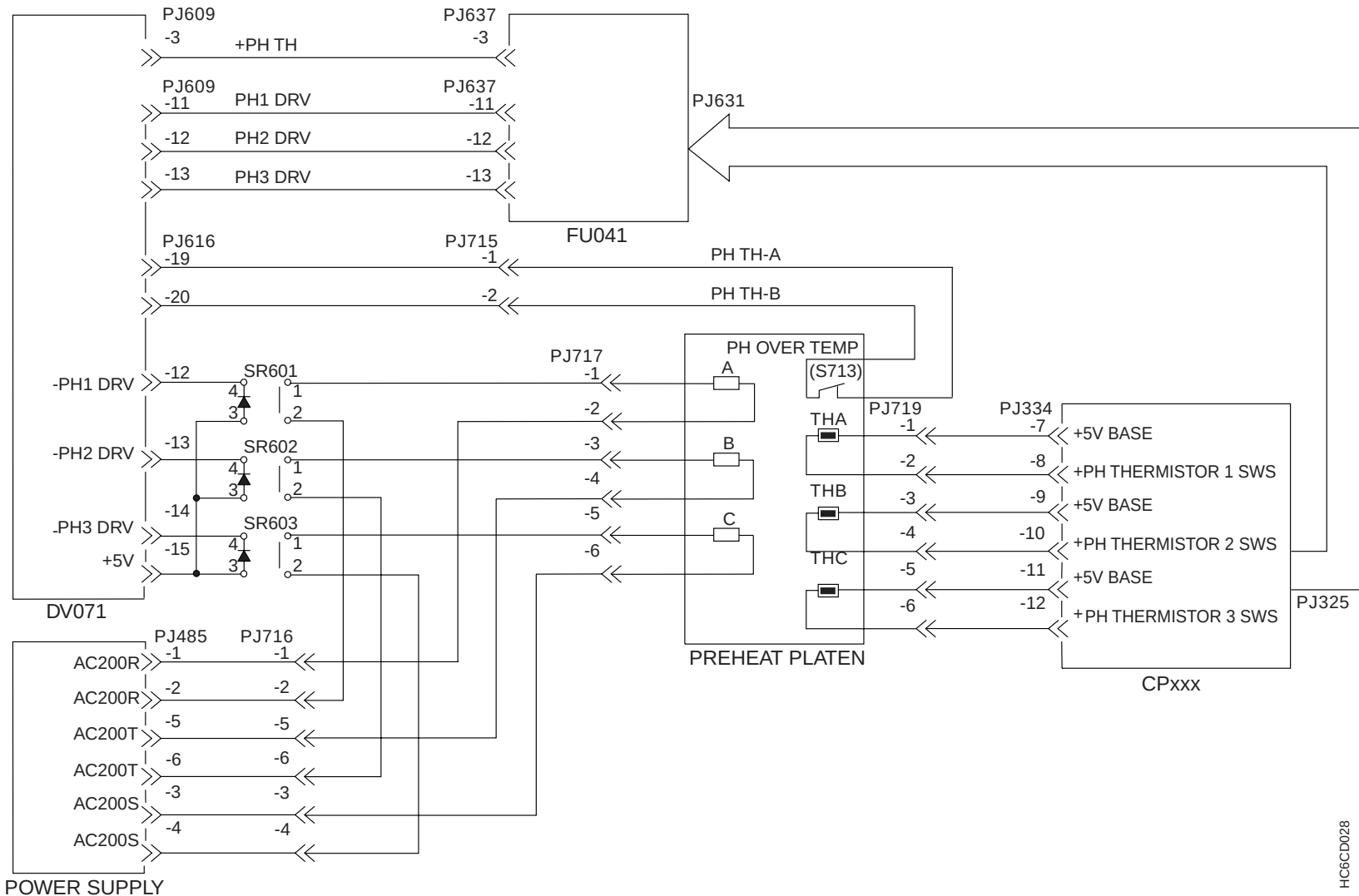


CD27 - Hot Roll Temperature Control Sensor (S701)



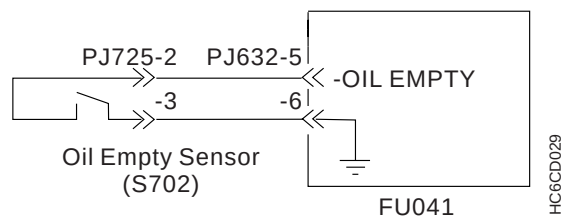
* D11 When the temperature of the hot roll is low, D11 will switch ON each time the thermal ferrite chip in the hot roll passes under the Hot Roll Temperature Control Sensor.

CD28 - Preheat Platen

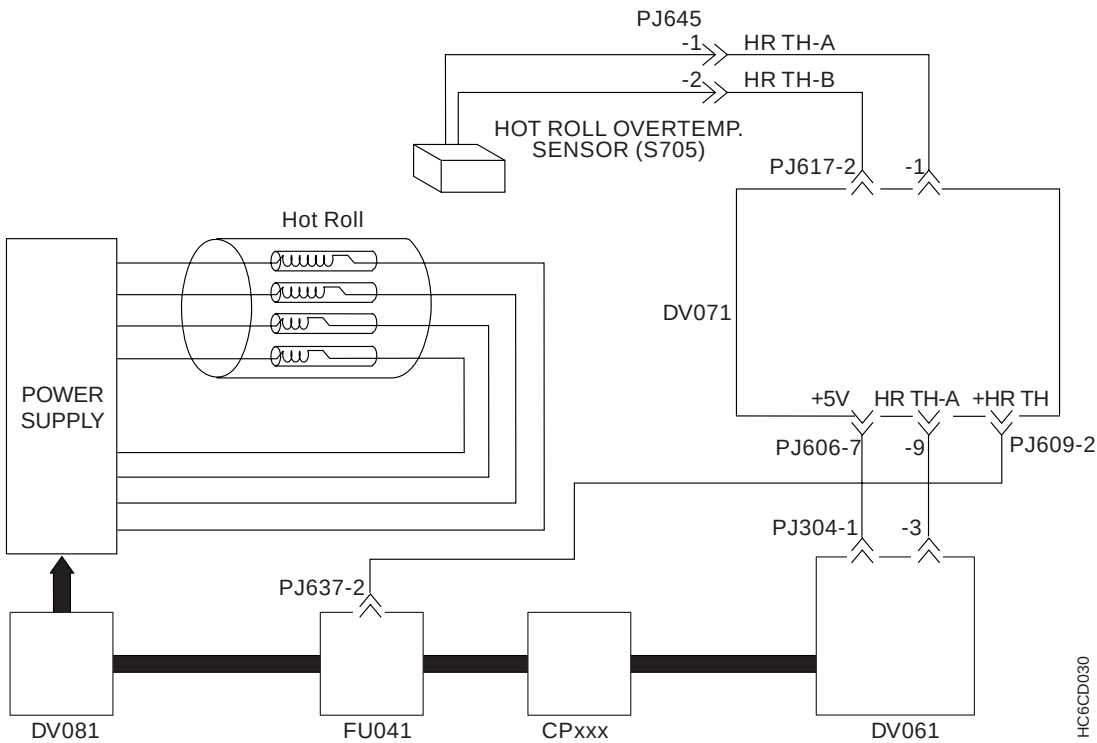


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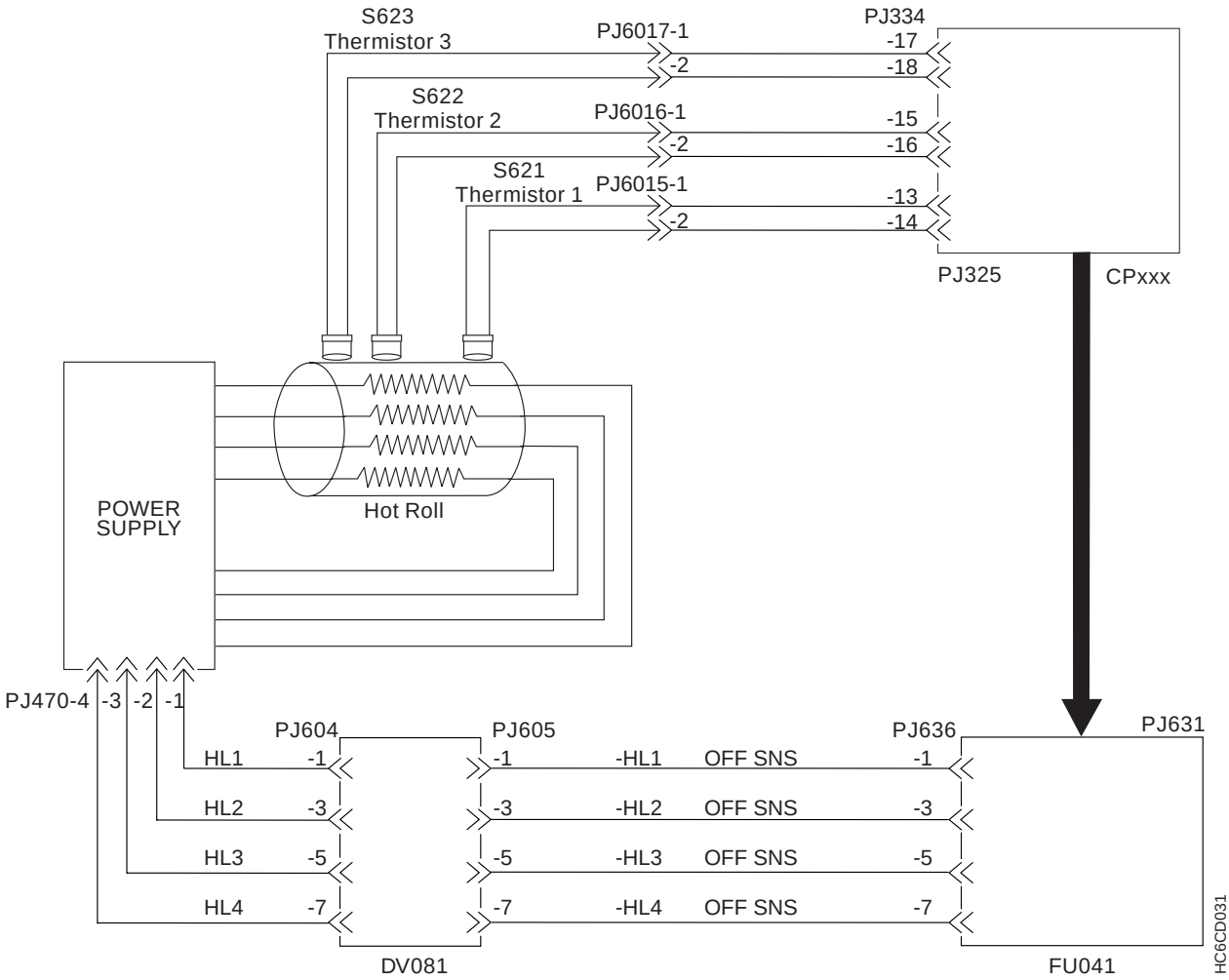
CD29 - Fuser Oil Empty Sensor (S702)



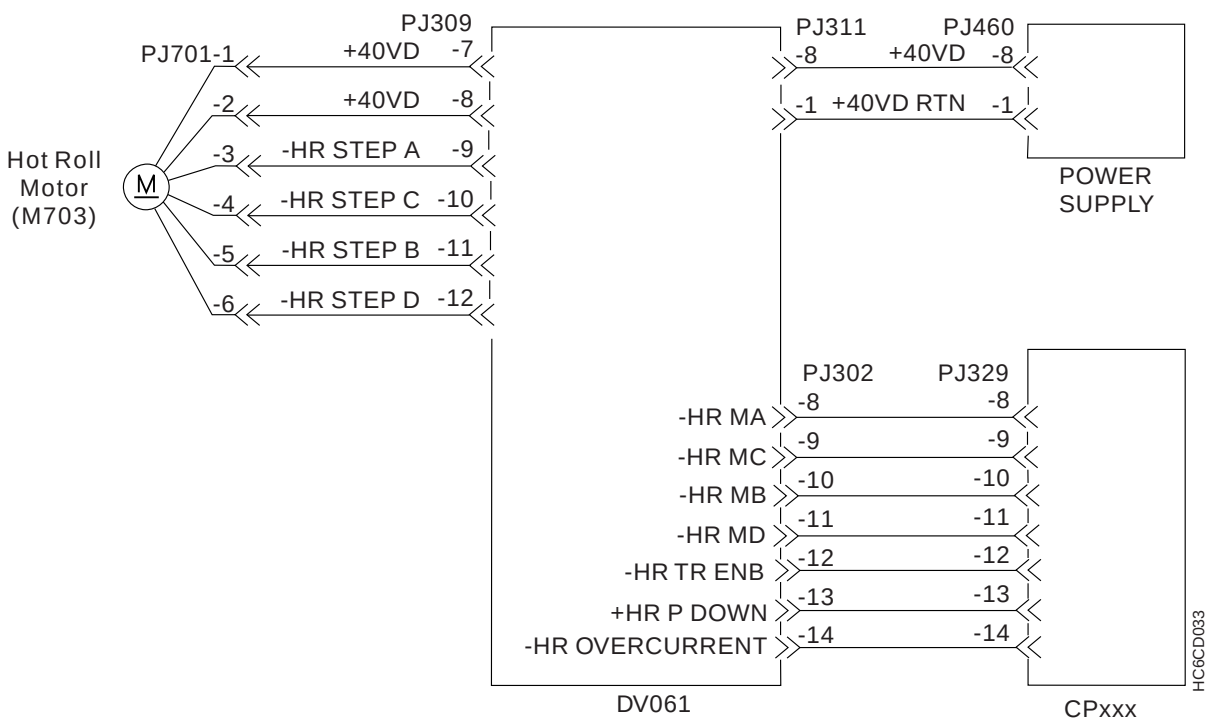
CD30 - Hot Roll Over-temperature Sensor (S705)



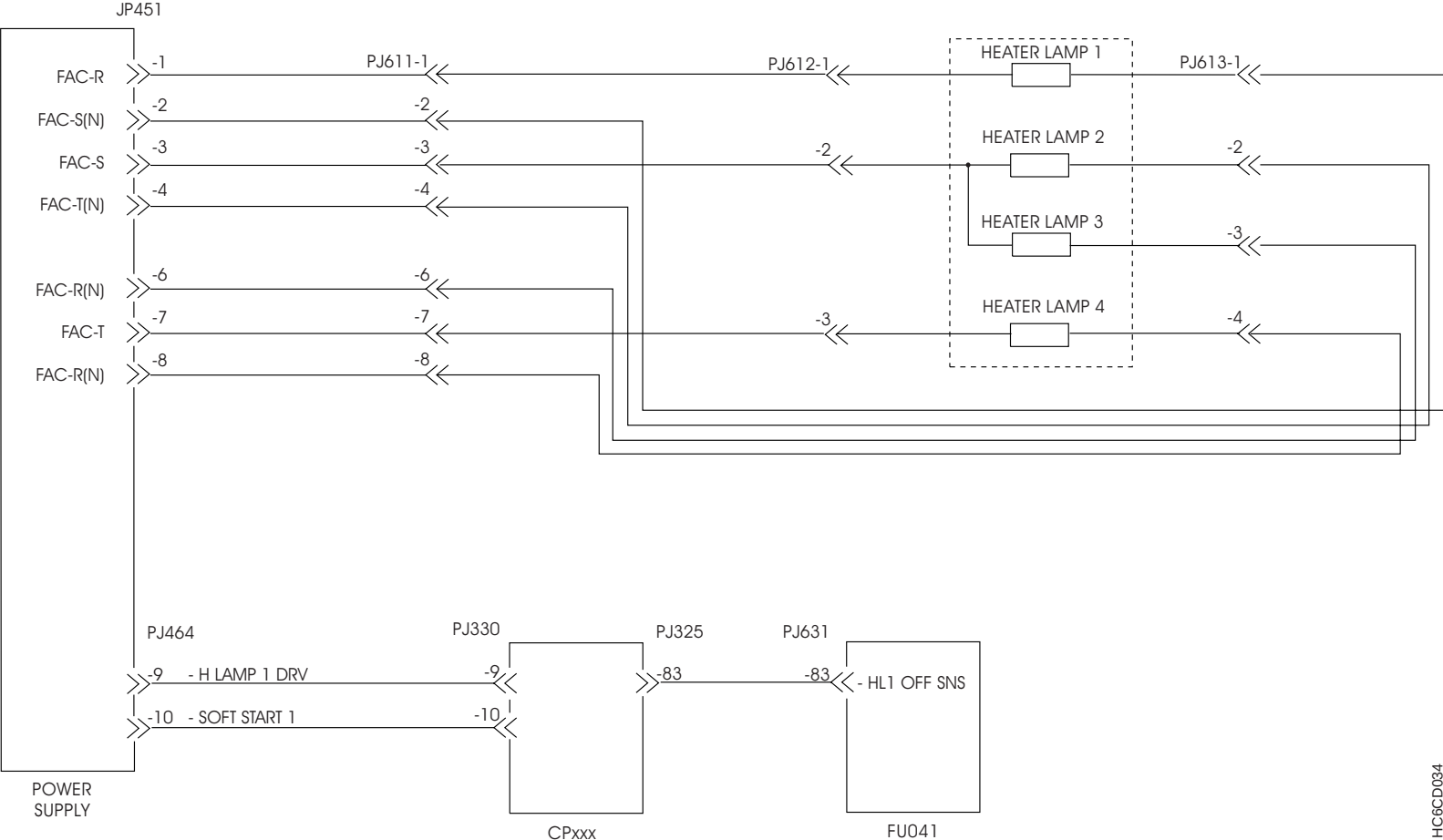
CD31 - Hot Roll Temperature Control Thermistors (S621 - S622 - S623)



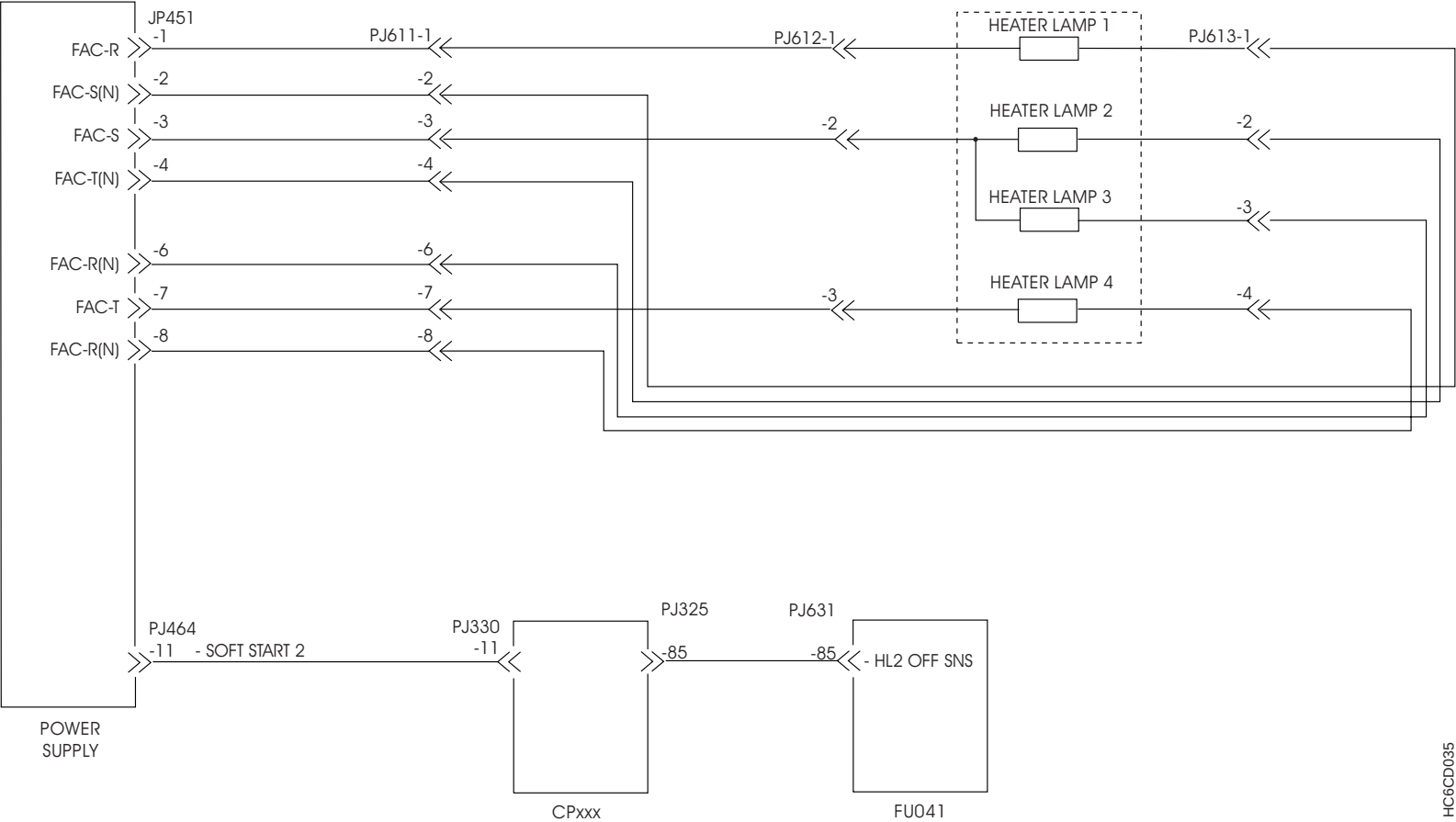
CD33 - Hot Roll Drive Motor (M703) and Overcurrent Detection



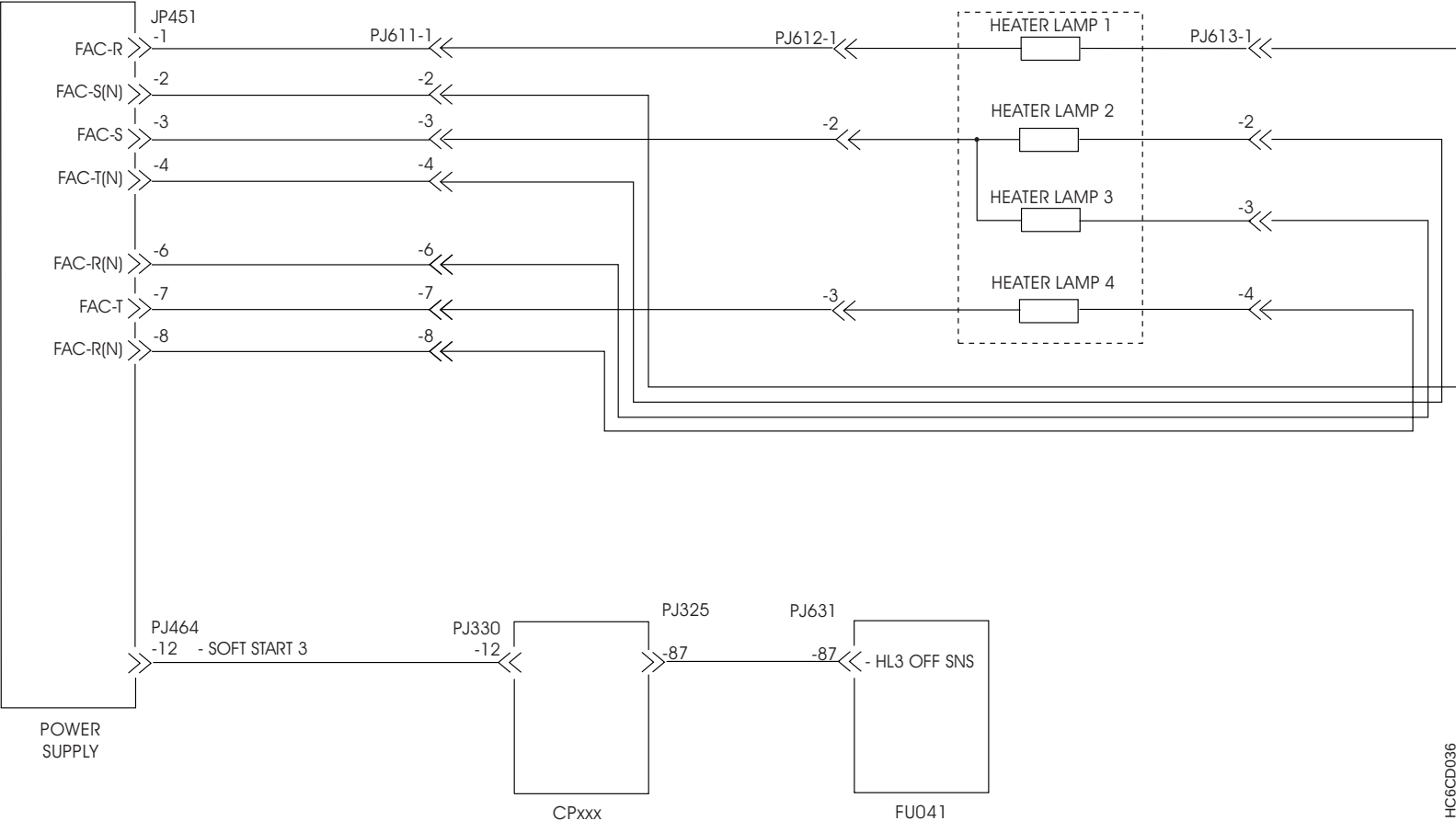
CD34 - Hot Roll Lamp 1



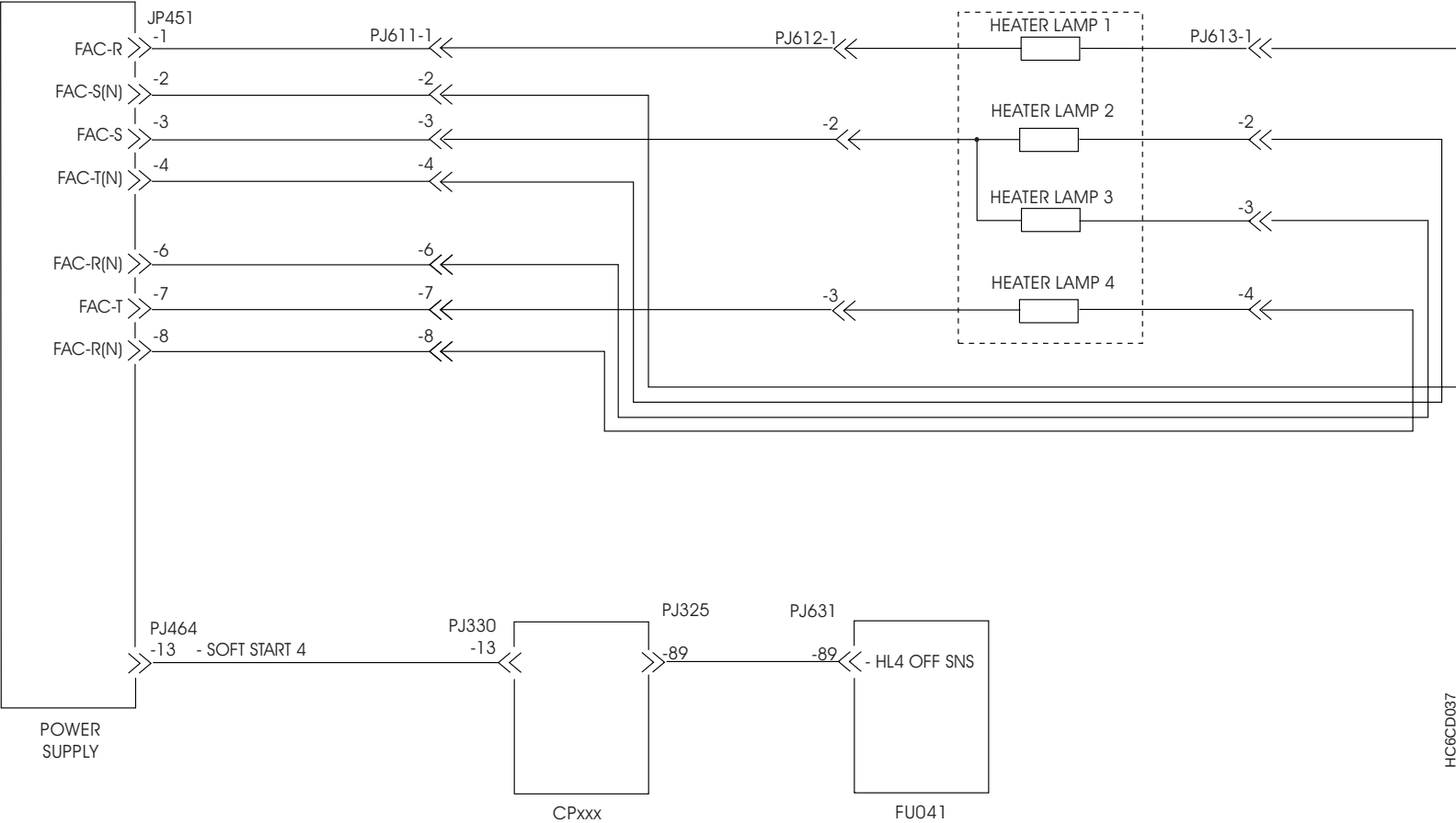
CD35 - Hot Roll Lamp 2



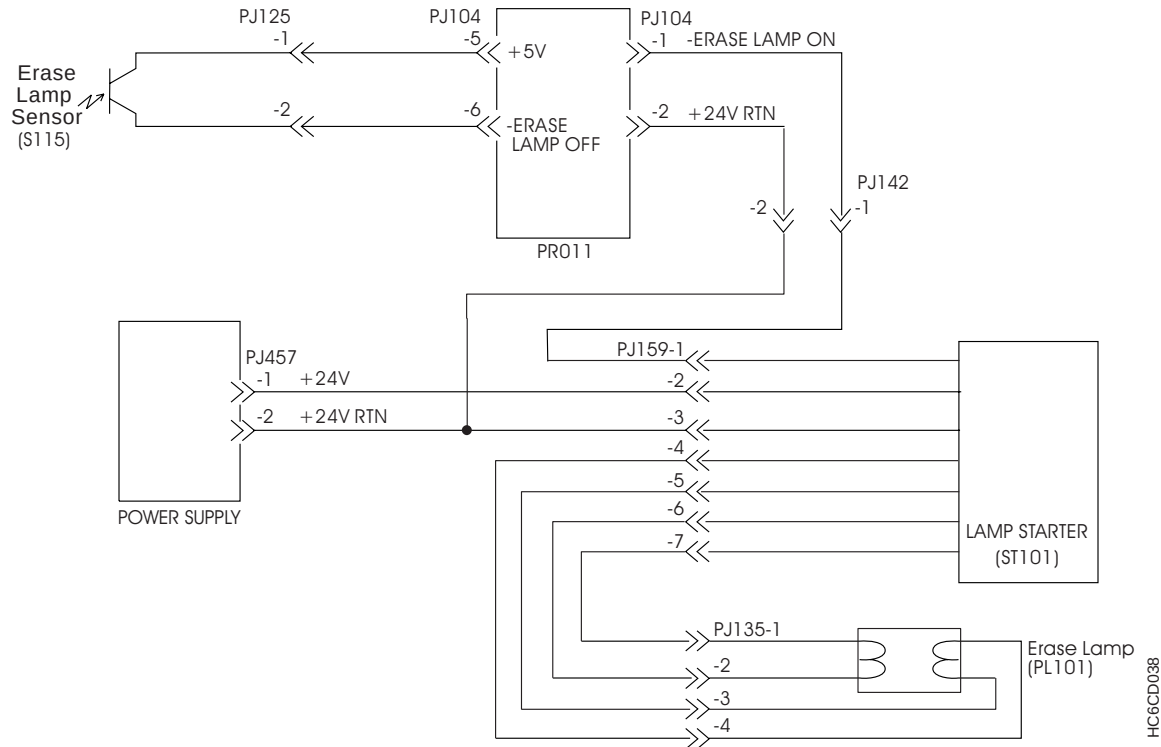
CD36 - Hot Roll Lamp 3



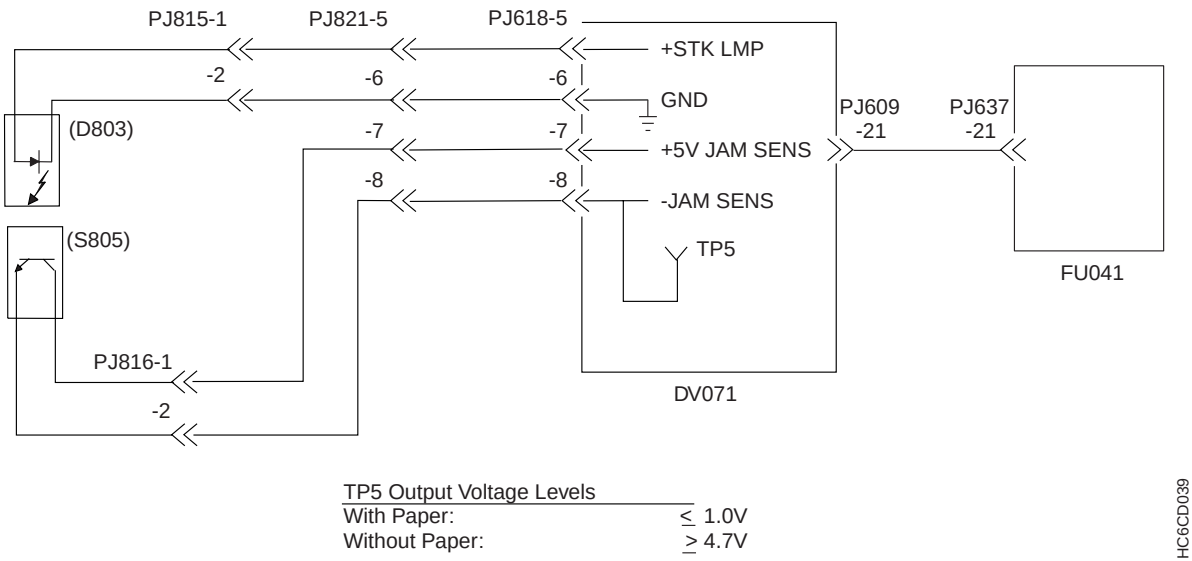
CD37 - Hot Roll Lamp 4



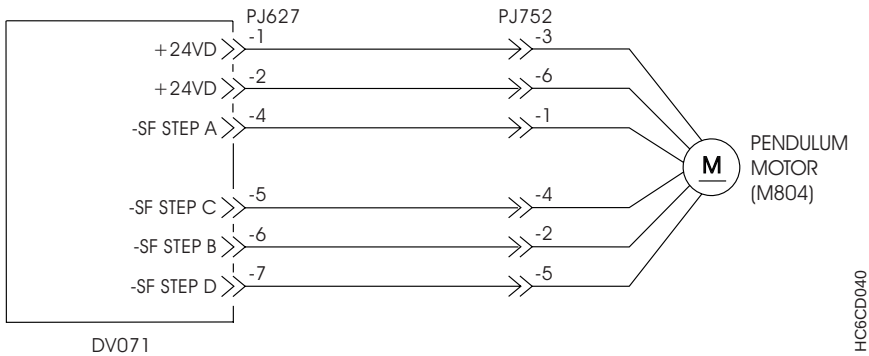
CD38 - Erase Lamp (PL101) - Starter (ST101) & Sensor (S115)



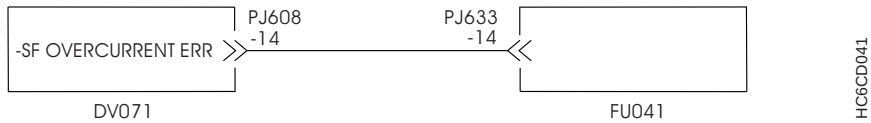
CD39 - Stacker Jam Sensor (S805/D803)



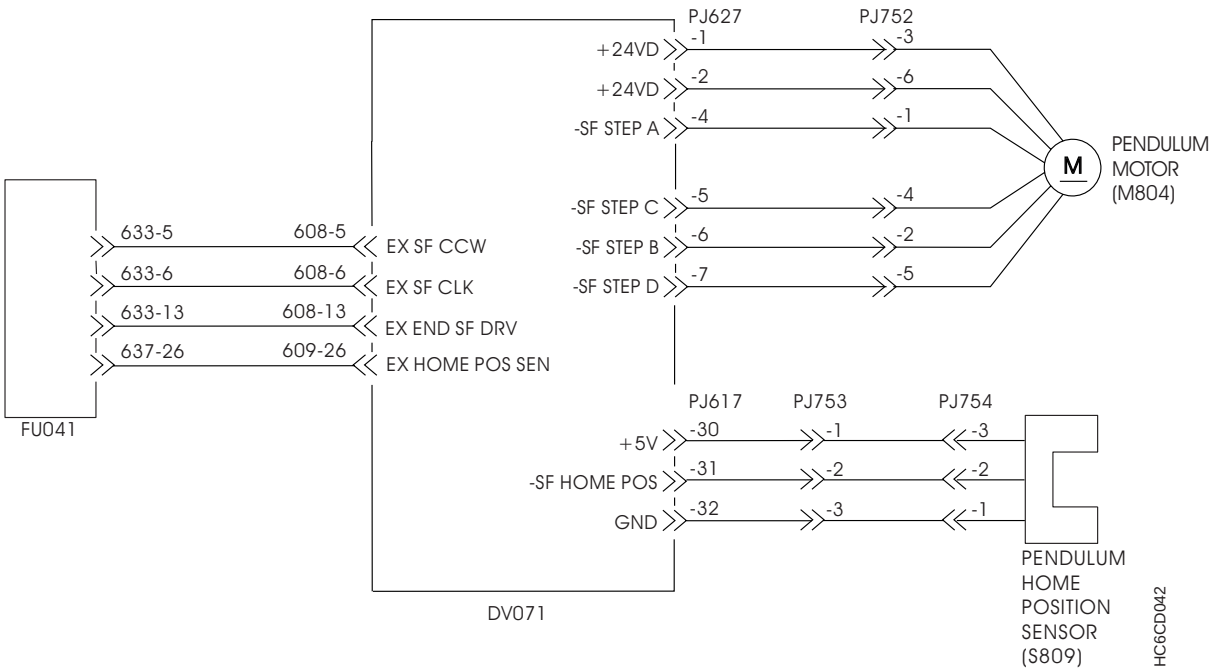
CD40 - Pendulum Motor (M804)



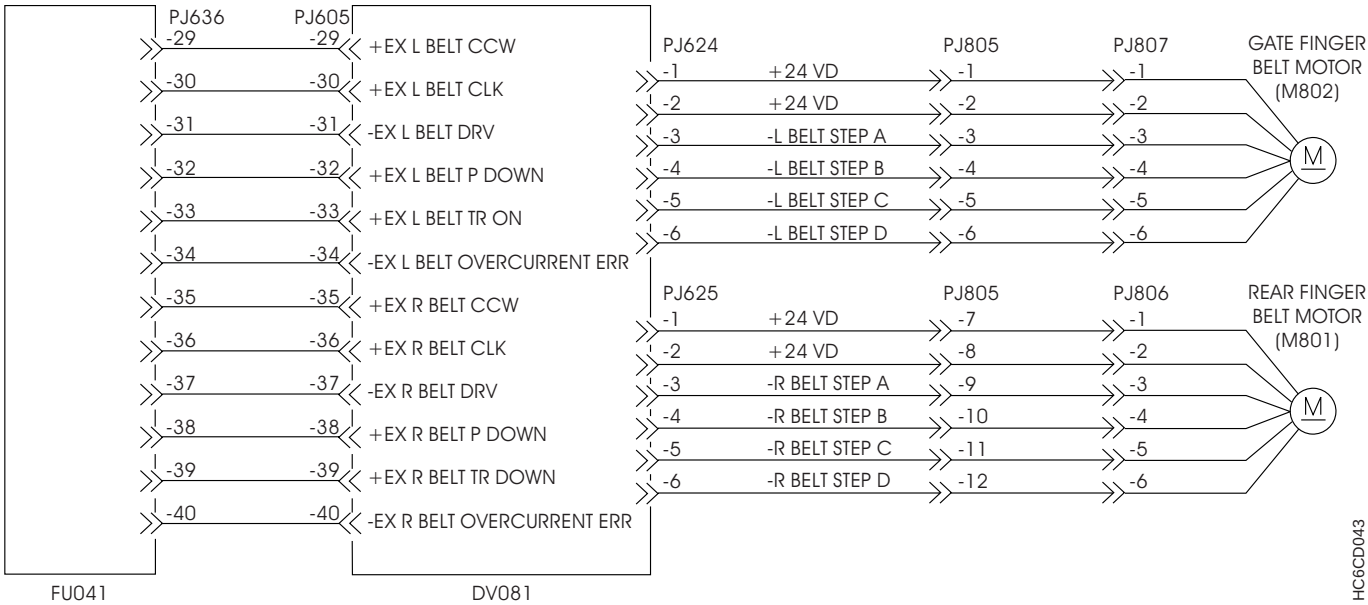
CD41 - Pendulum Motor (M804) Control



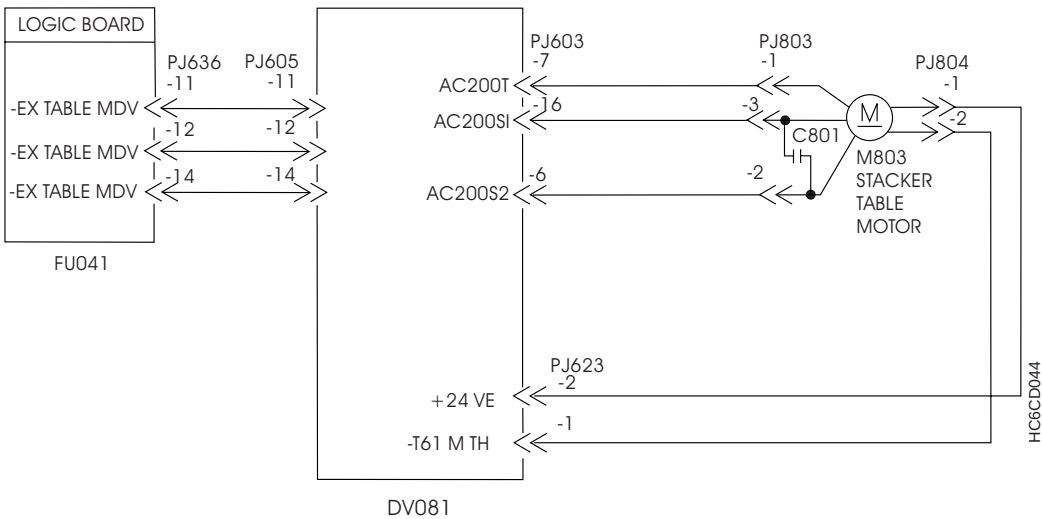
CD42 - Pendulum Motor (M804) - Positioning



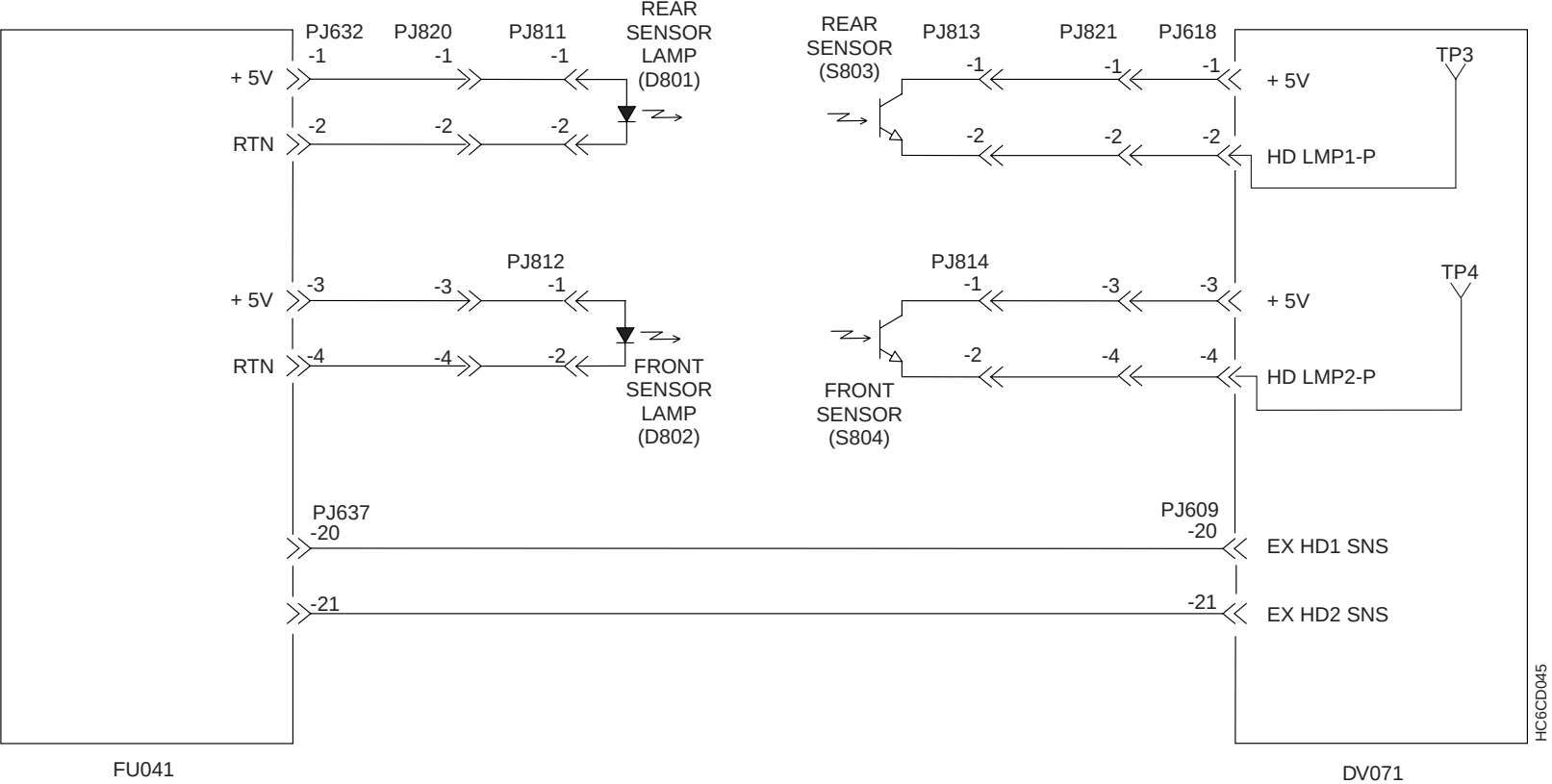
CD43 - Finger Belt Motors (M801 & M802)



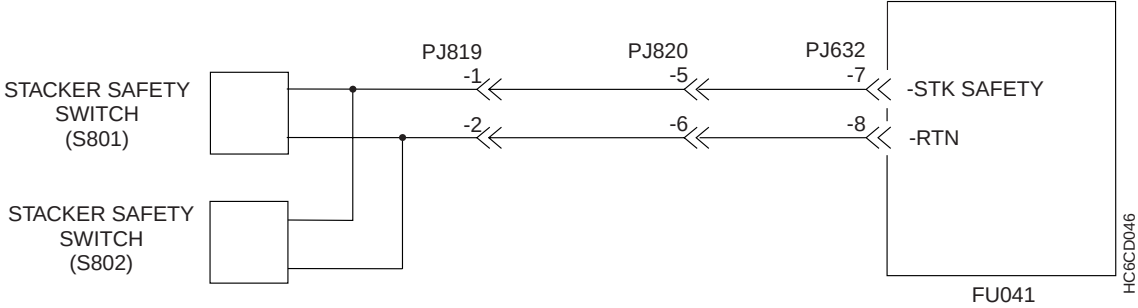
CD44 - Stacker Table Motor (M803) - Thermal Sense



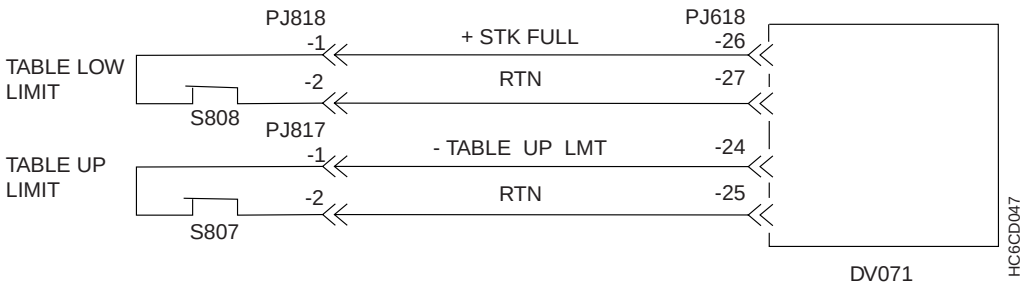
CD45 - Stacker Height Sensors (S803/D801 & S804/D802)



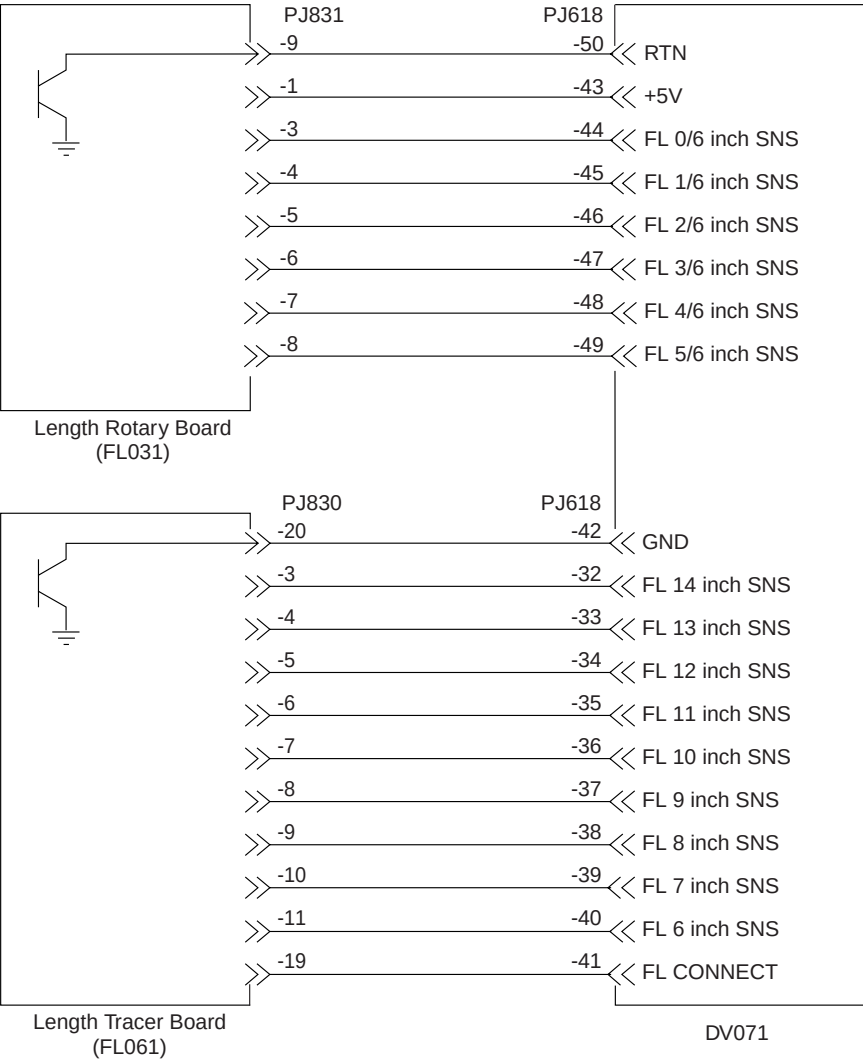
CD46 - Stacker Gate Safety Switches (S801 & S802)



CD47 - Stacker Table Limit Switches (S807 & S808)

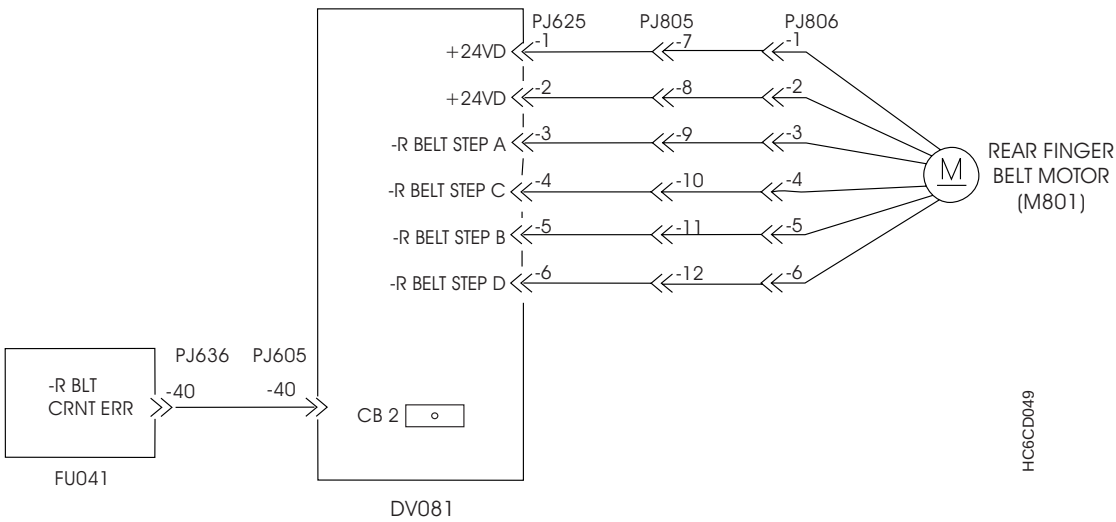


CD48 - Stacker Forms Length Hall Sensor

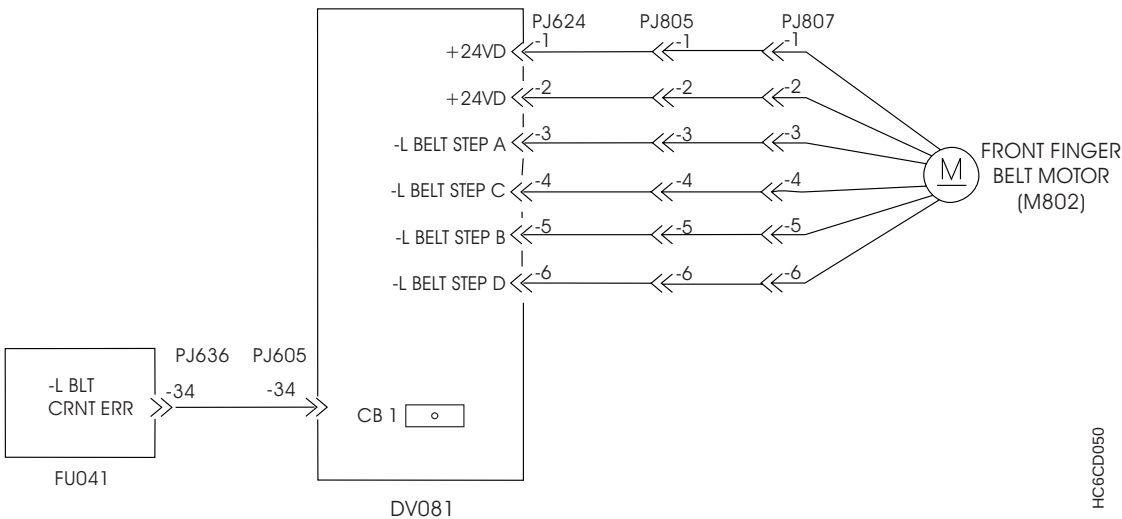


HC6CD048

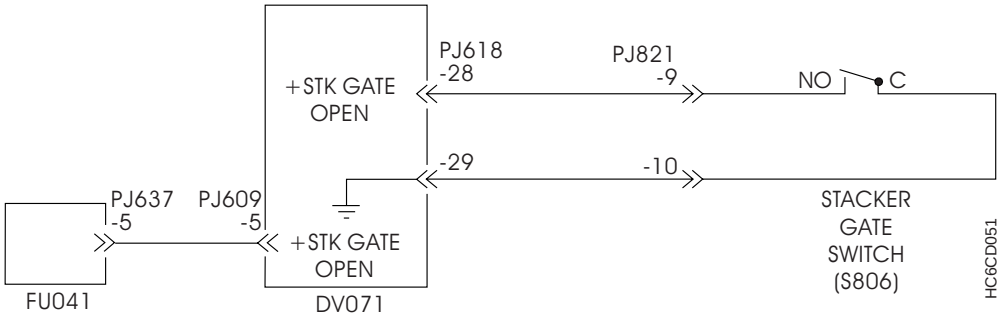
CD49 - Stacker Rear Finger Belt Motor (M801)



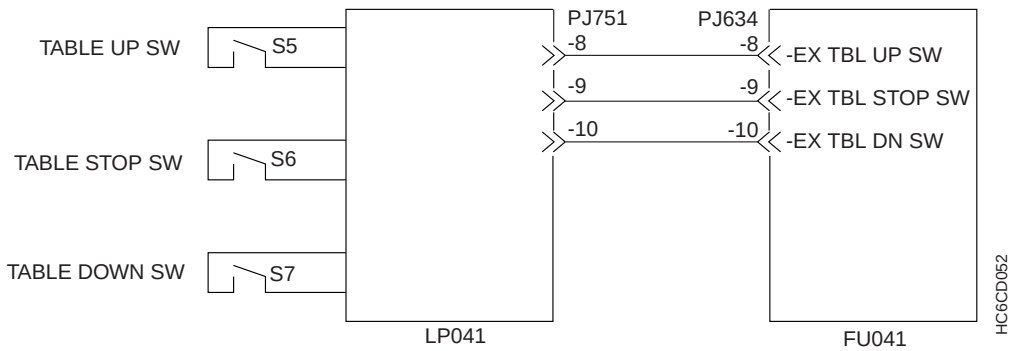
CD50 - Stacker Front Finger Belt Motor (M802)



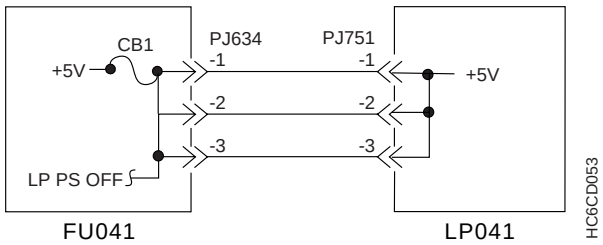
CD51 - Stacker Gate Open Switch (S806)



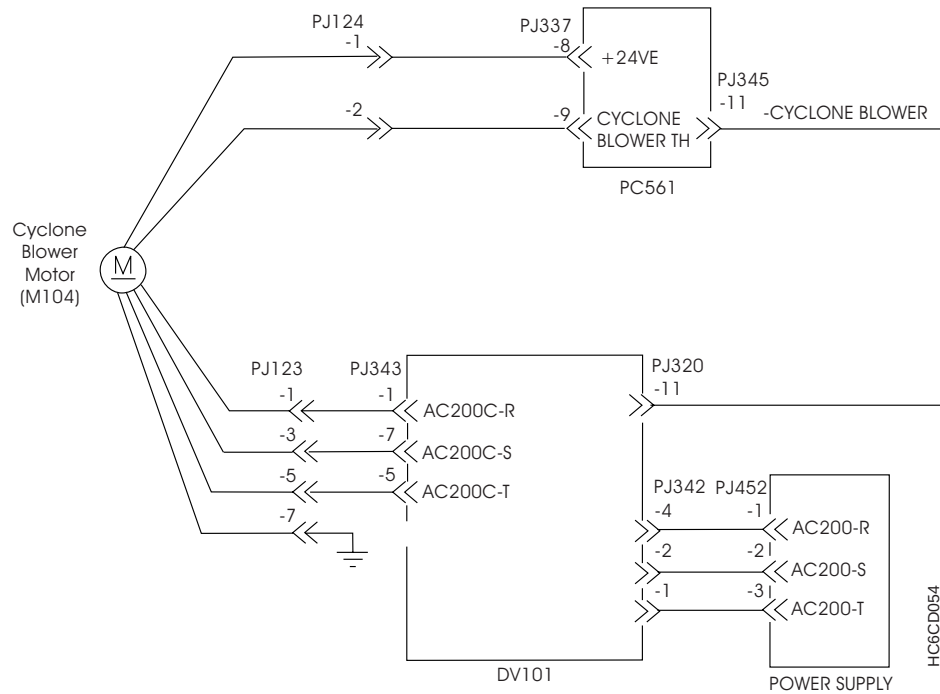
CD52 - Stacker Control Panel (LP041)



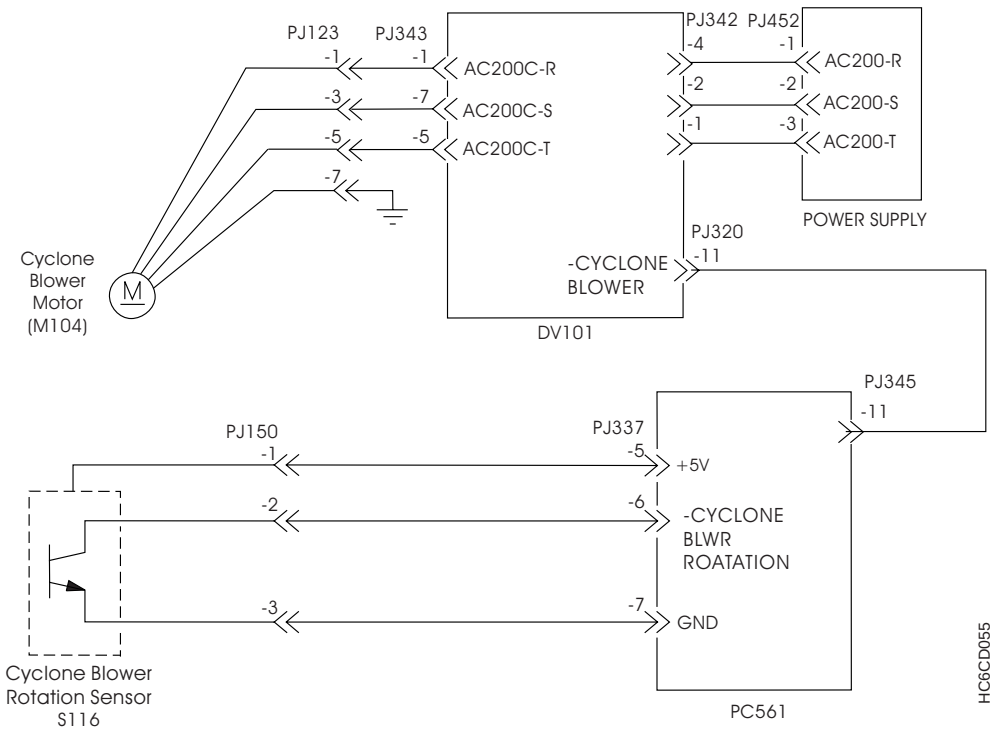
CD53 - Forms Length Circuit Breaker



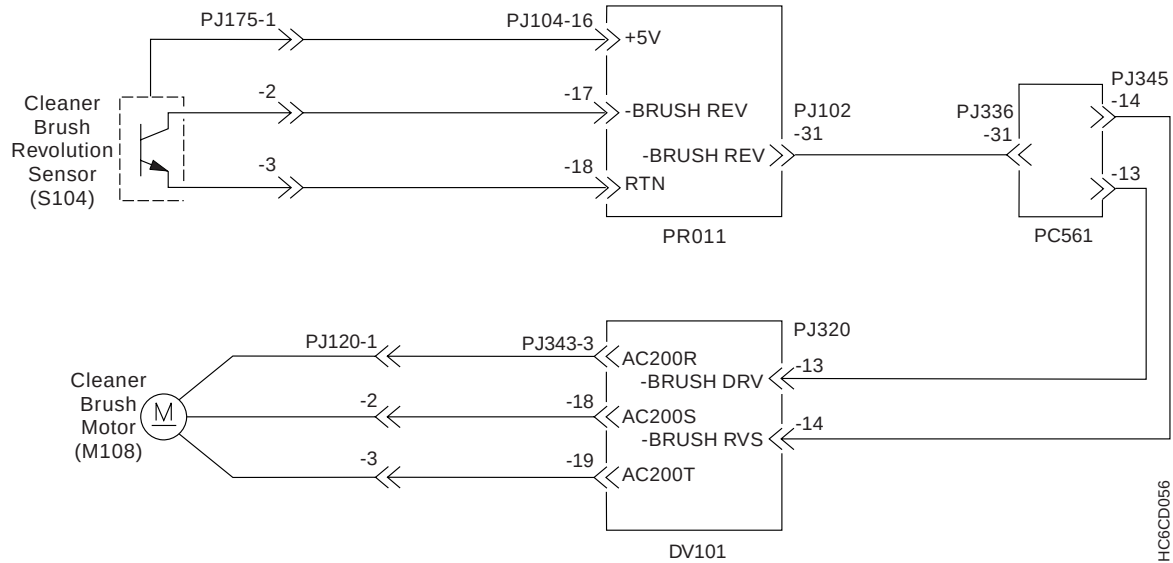
CD54 - Cyclone Blower Motor (M104) - Thermal Sense



CD55 - Cyclone Blower Motor (M104) & Rotation Sensor (S116)



CD56 - Cleaner Brush Motor (M108) & Rotation Sensor (S104)



The diagram illustrates the electrical connections for the Cleaner Brush Motor (M108). The motor is connected to three main branches:

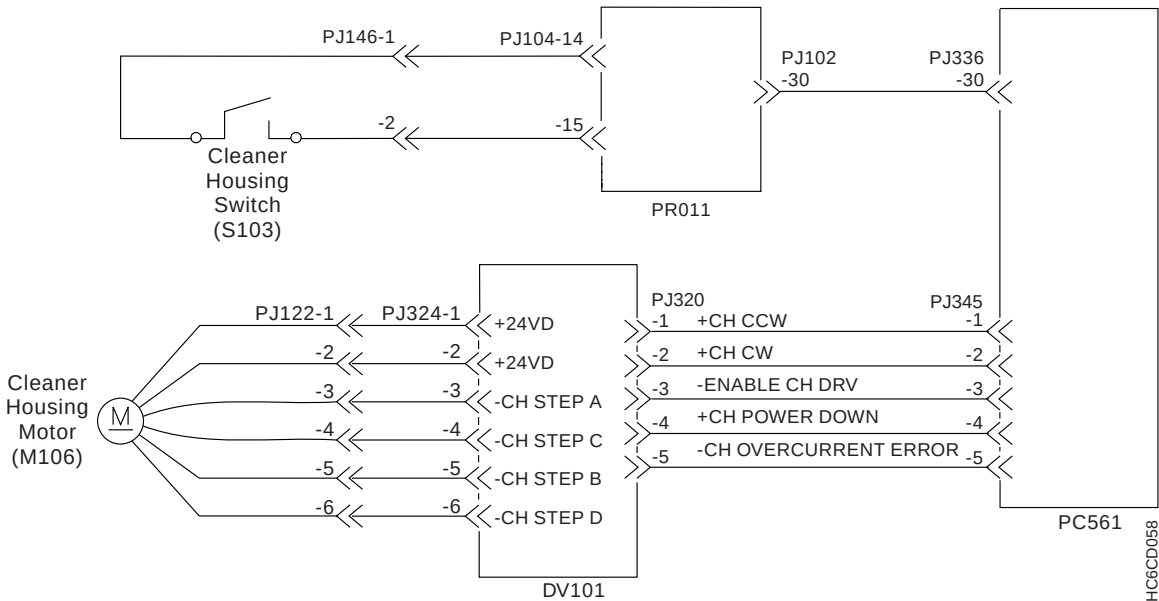
- Top Branch:** Motor terminal -1 connects to PJ120, which leads to AC200R. AC200R connects to PJ343, which leads to DV101. DV101 connects to PJ342, which leads to AC200R. AC200R connects to PJ452, which leads to the POWER SUPPLY. The POWER SUPPLY connects to PJ459, which leads to the +24V line.
- Middle Branch:** Motor terminal -2 connects to AC200S. AC200S connects to PJ343, which leads to DV101. DV101 connects to PJ342, which leads to AC200S. AC200S connects to PJ452, which leads to the POWER SUPPLY. The POWER SUPPLY connects to PJ459, which leads to the +24V line.
- Bottom Branch:** Motor terminal -3 connects to AC200T. AC200T connects to PJ343, which leads to DV101. DV101 connects to PJ342, which leads to AC200T. AC200T connects to PJ452, which leads to the POWER SUPPLY. The POWER SUPPLY connects to PJ459, which leads to the +24V line.

Additional connections include:

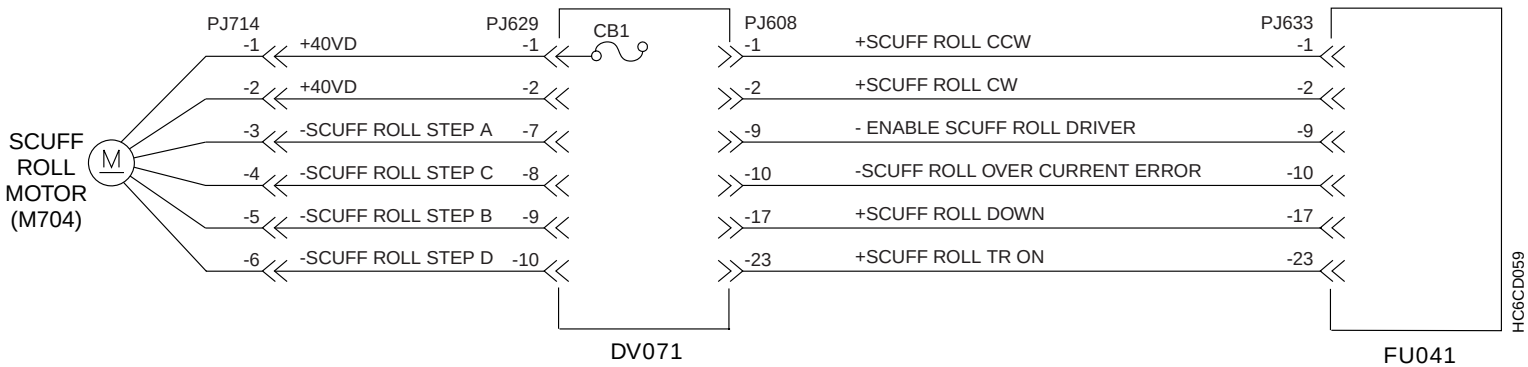
- Motor terminal -1 connects to PJ134, which leads to CLNR BRUSH THERMAL. CLNR BRUSH THERMAL connects to PJ104, which leads to PRO11. PRO11 connects to PJ105, which leads to PJ305. PJ305 connects to DV061. DV061 connects to PJ312, which leads to the +24V line.
- Motor terminal -2 connects to CLNR BRUSH THERMAL. CLNR BRUSH THERMAL connects to PJ104, which leads to PRO11. PRO11 connects to PJ105, which leads to PJ305. PJ305 connects to DV061. DV061 connects to PJ312, which leads to the +24V line.
- Motor terminal -3 connects to CLNR BRUSH THERMAL. CLNR BRUSH THERMAL connects to PJ104, which leads to PRO11. PRO11 connects to PJ105, which leads to PJ305. PJ305 connects to DV061. DV061 connects to PJ312, which leads to the +24V line.

The diagram also shows a ground connection for the +24V line and a +24V RTN connection.

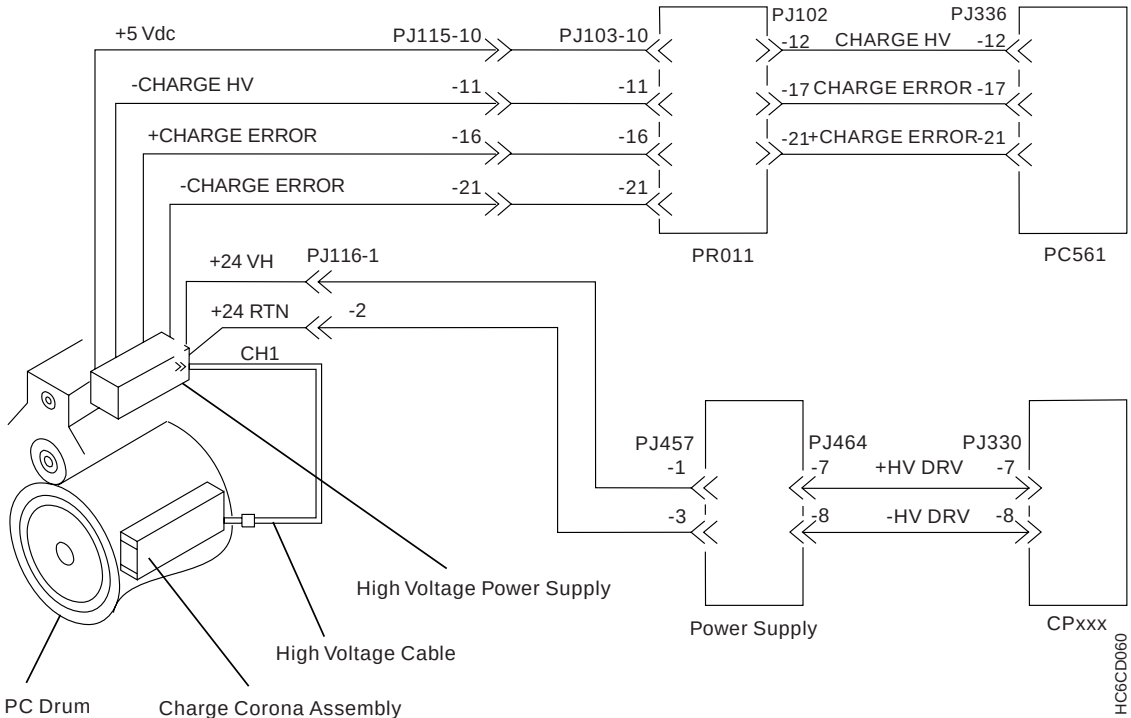
CD58 - Cleaner Housing Motor (M106) & Position Switch (S103)



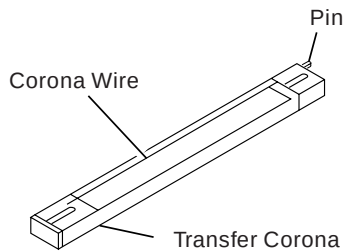
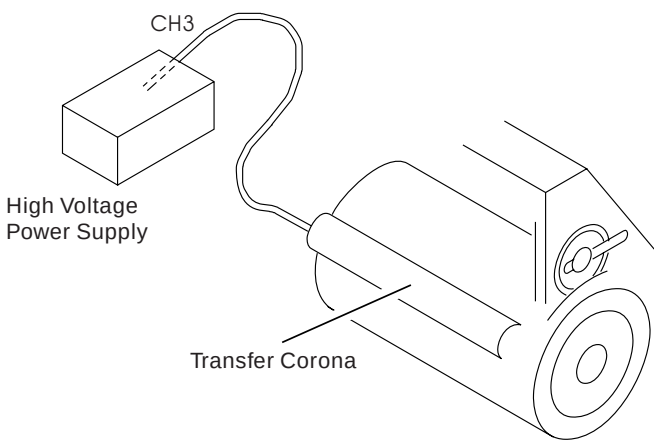
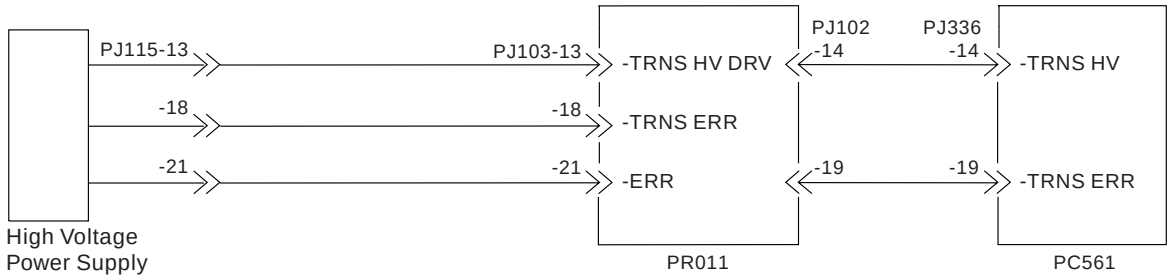
CD59 - Scuff Roll Motor Drive (M704)



CD60 - Charge Corona

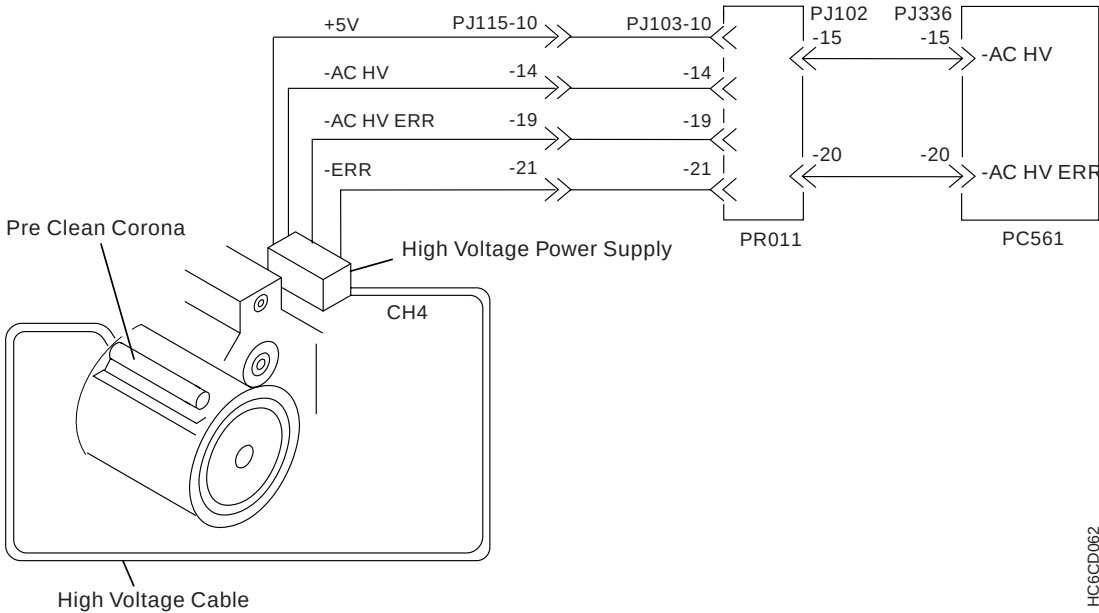


CD61 - Transfer Corona



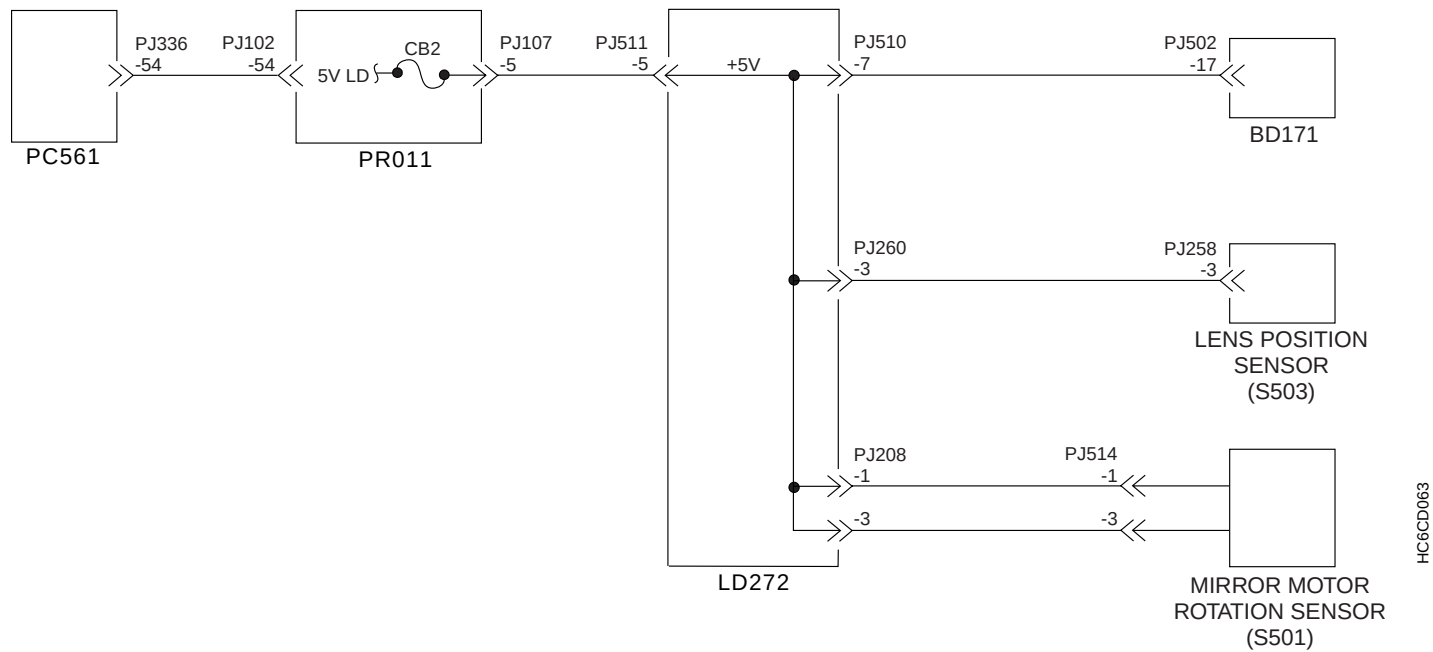
HC6CD061

CD62 - Preclean Corona

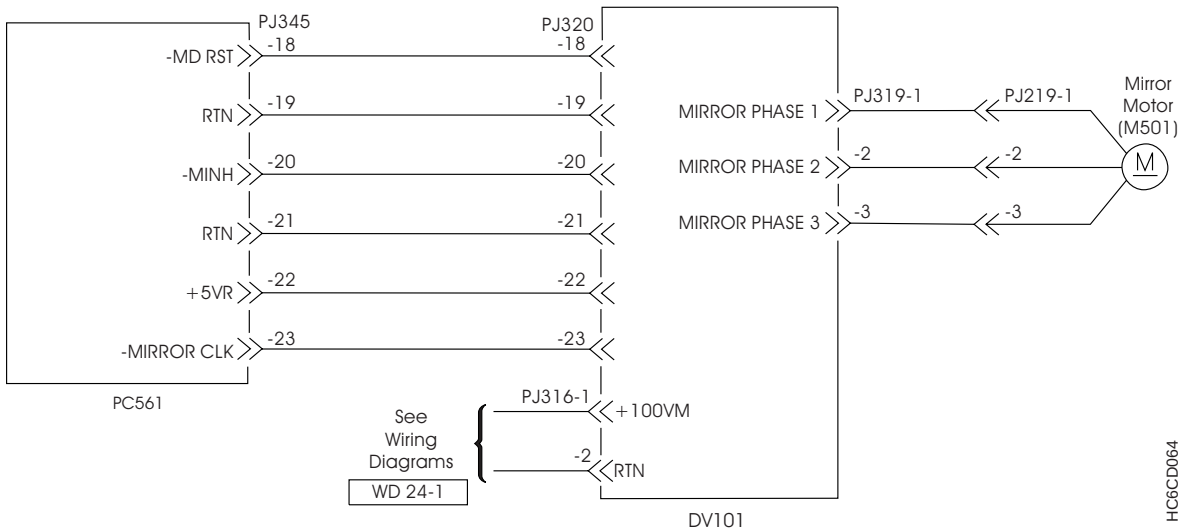
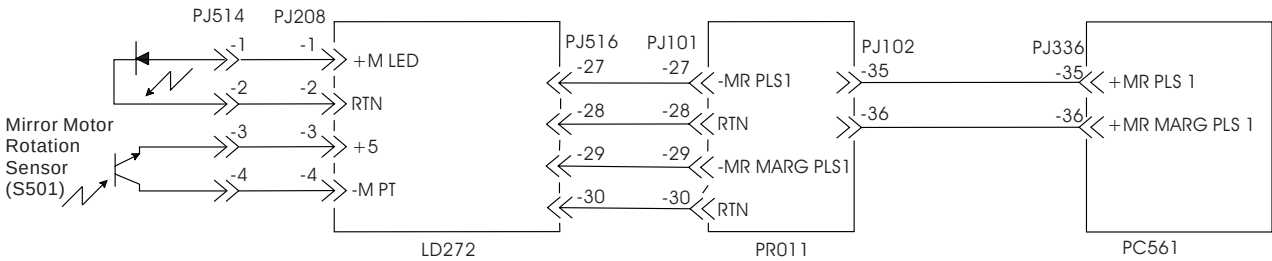


HC6CD062

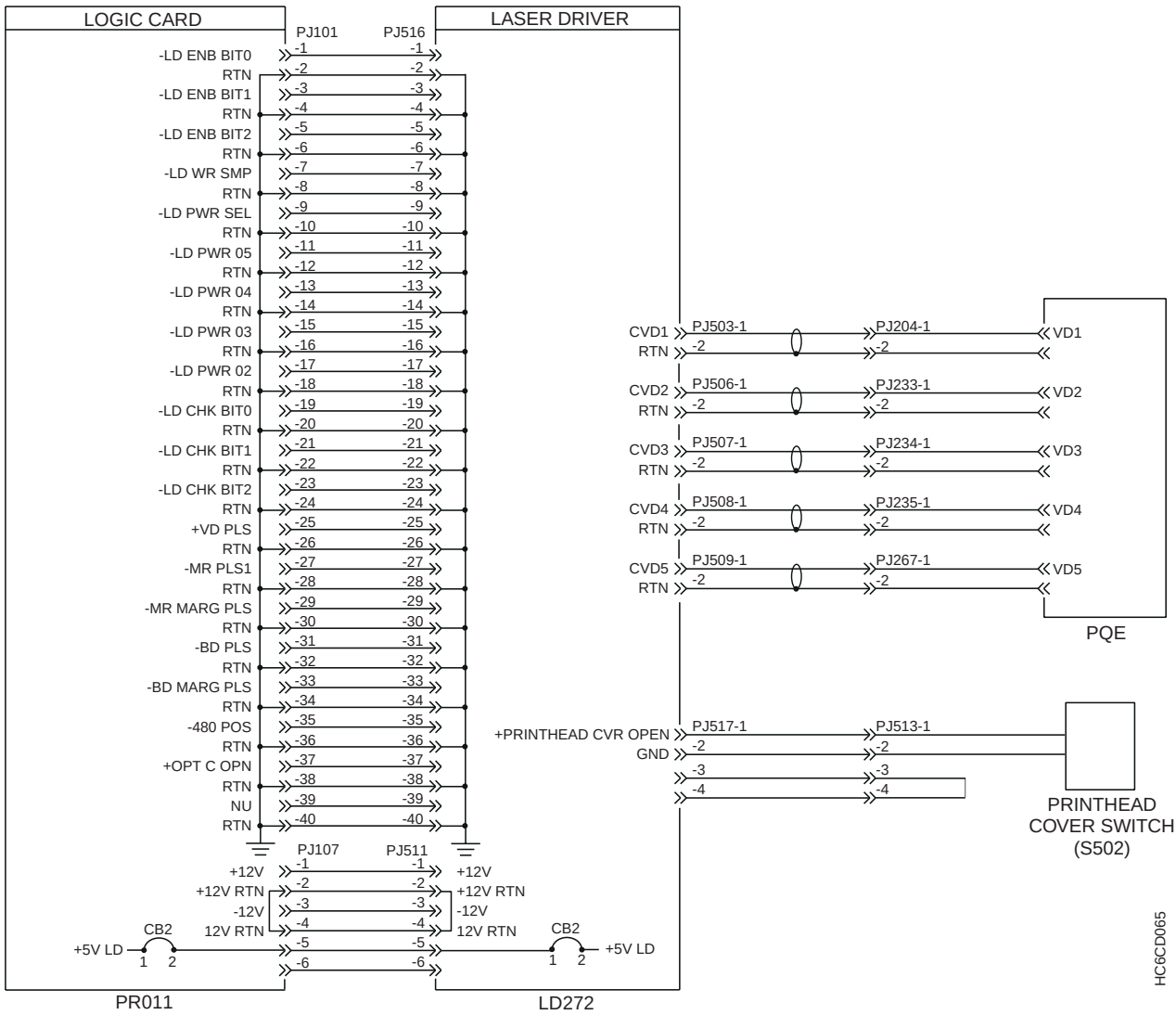
CD63 - Laser Driver Circuit Breaker



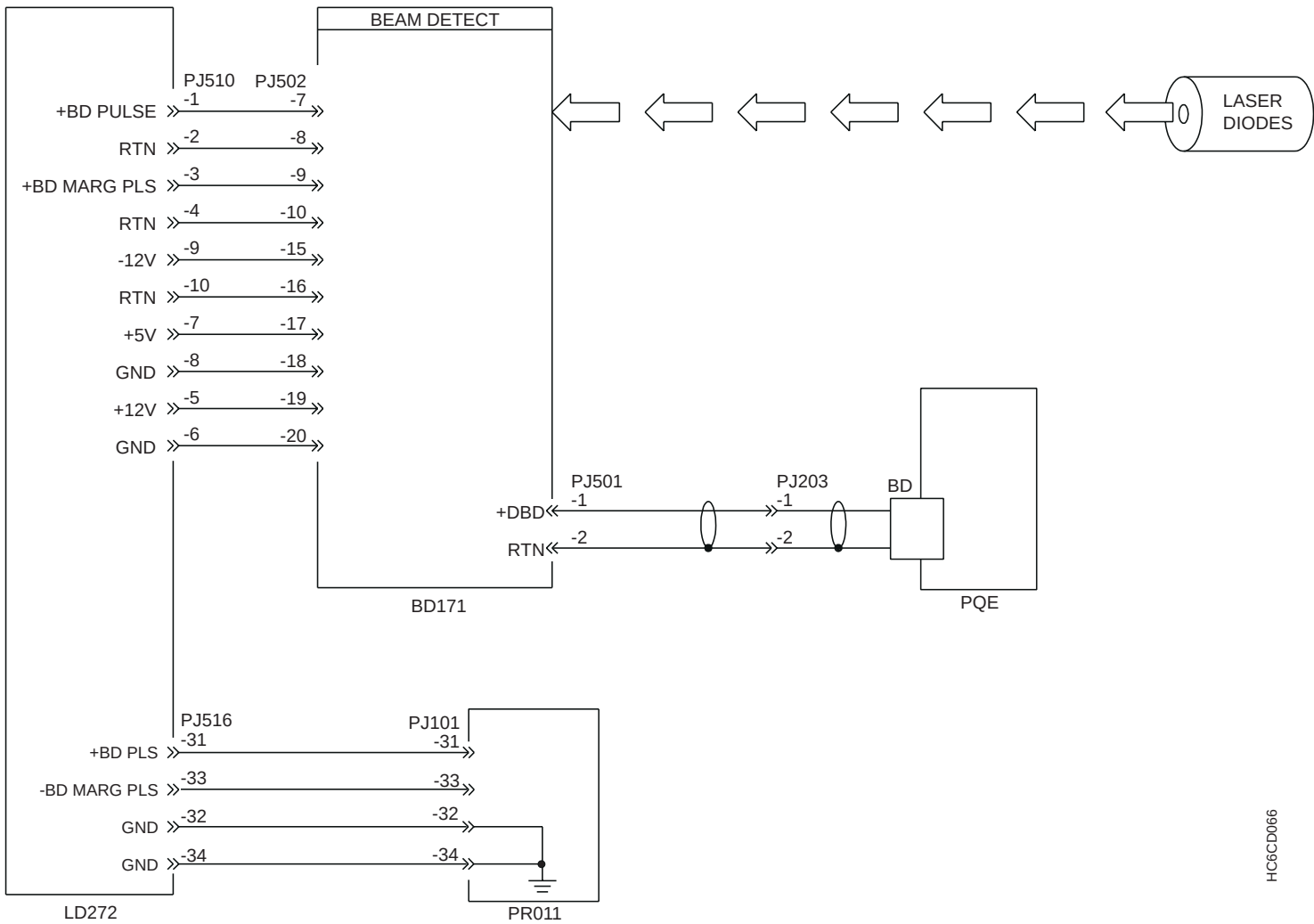
CD64 - Mirror Motor (M501)



CD65 - Printhead

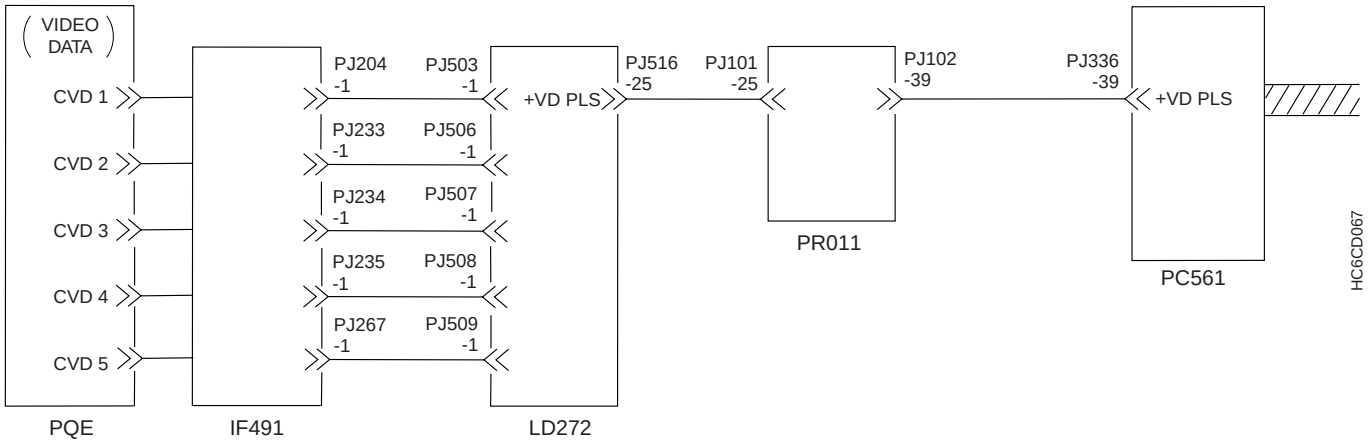


CD66 - Beam Detect

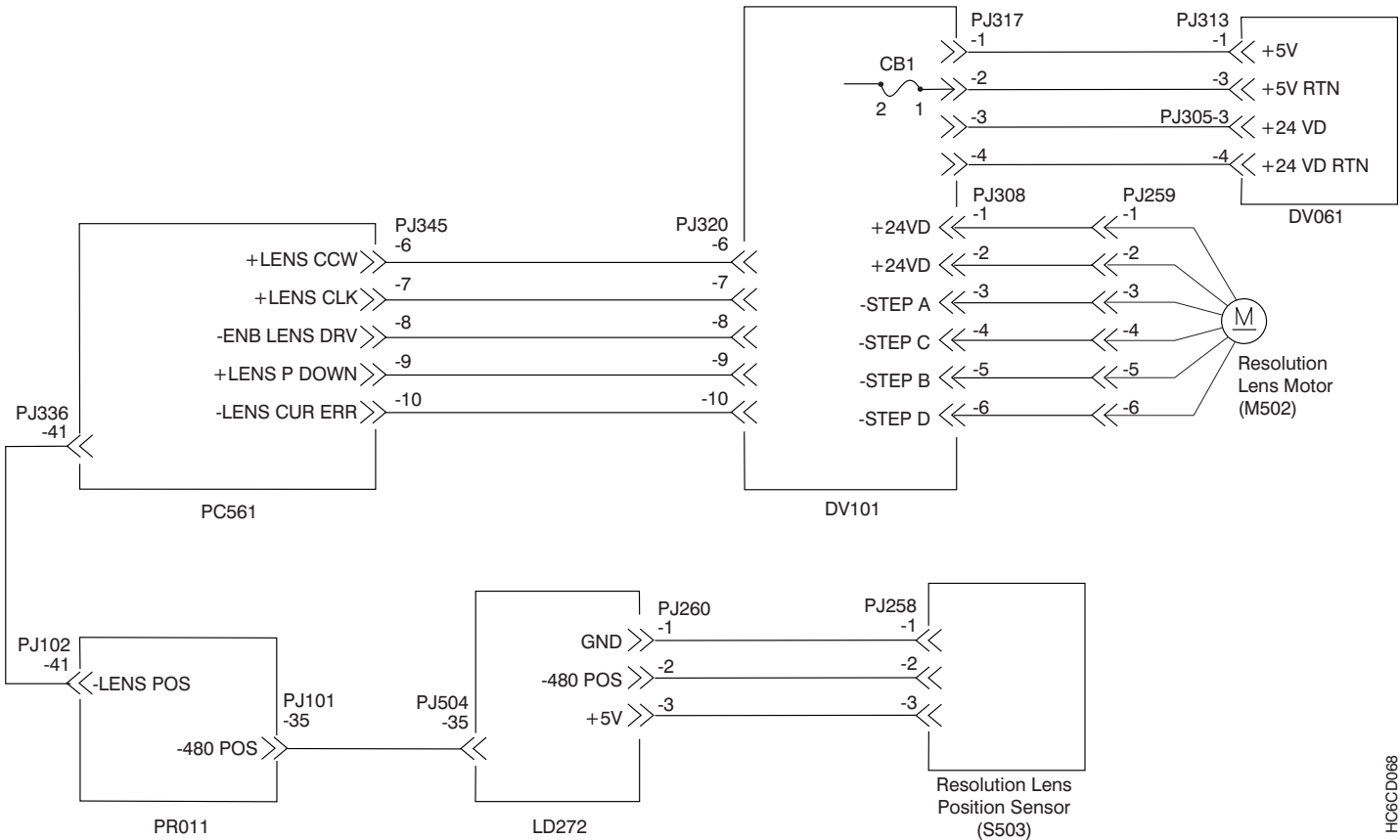


H6C6CD066

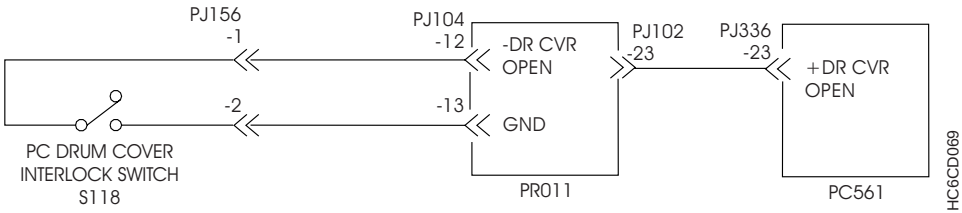
CD67 - Video Data



CD68 - Resolution Switching Lens Motor Postion Sensor (S502)



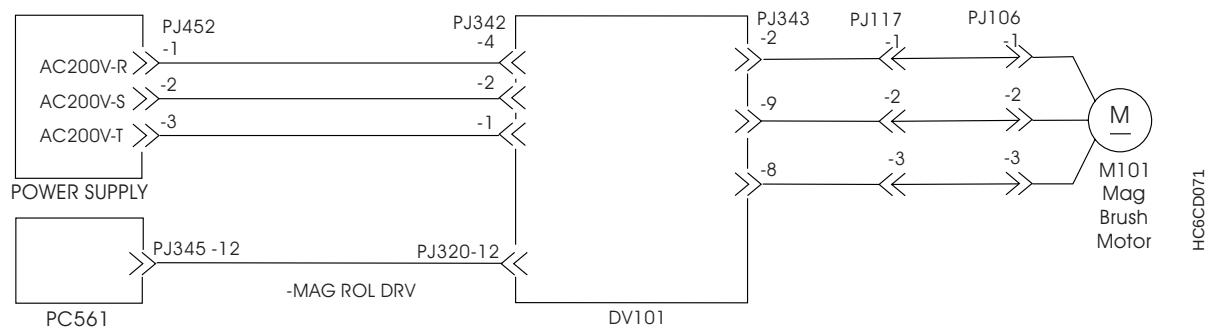
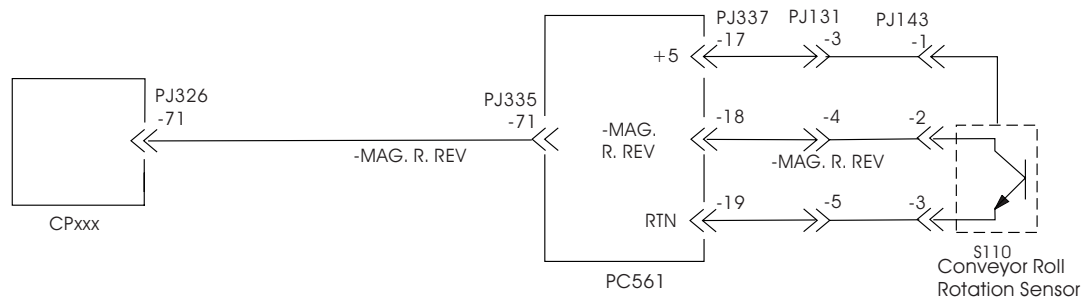
CD69 - PC Drum Cover Interlock Switch (S118)



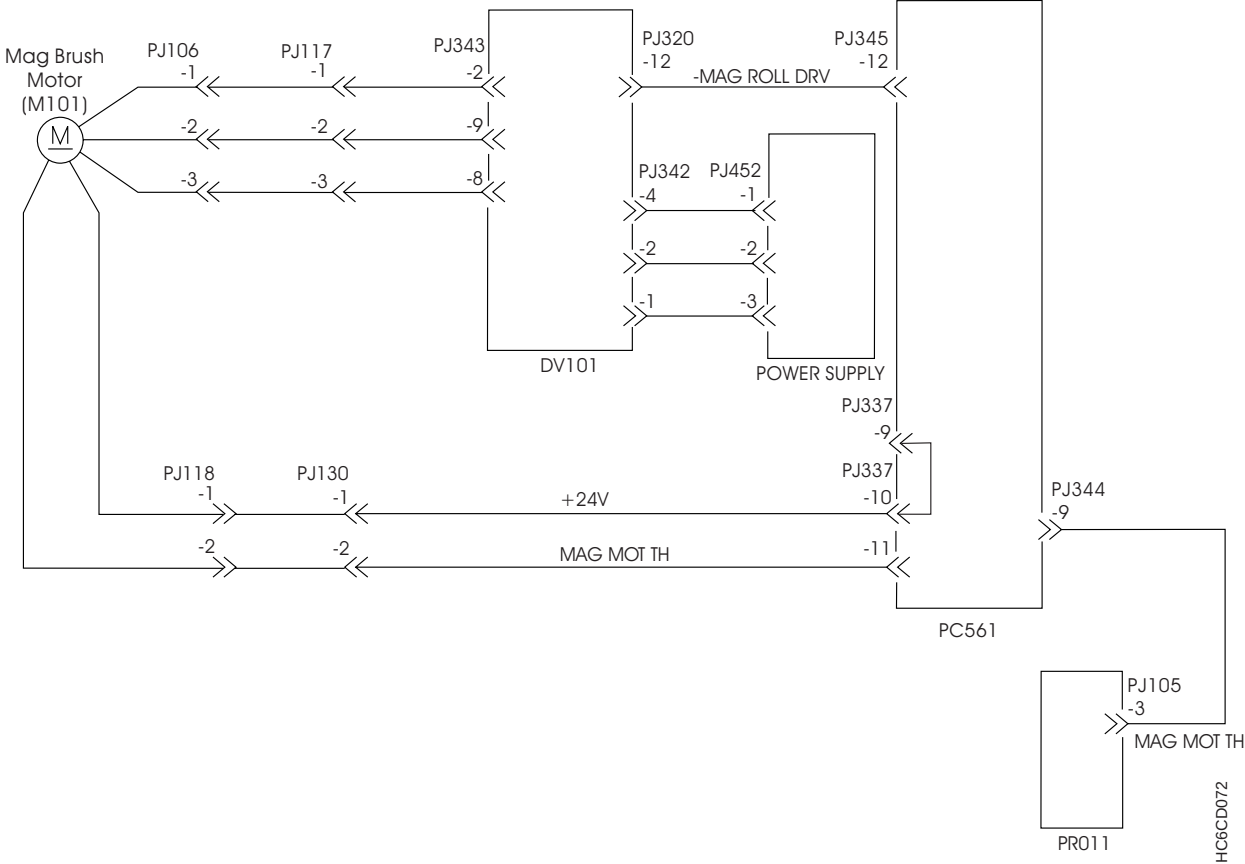
A detailed line drawing of a mechanical watch movement, showing various gears, levers, and components arranged in a semi-circular layout. The drawing is a technical illustration of the internal mechanism of a watch, featuring a large circular component at the top, a smaller circular component at the bottom left, and a complex assembly of gears and levers on the right. The drawing is a technical illustration of the internal mechanism of a watch, featuring a large circular component at the top, a smaller circular component at the bottom left, and a complex assembly of gears and levers on the right.



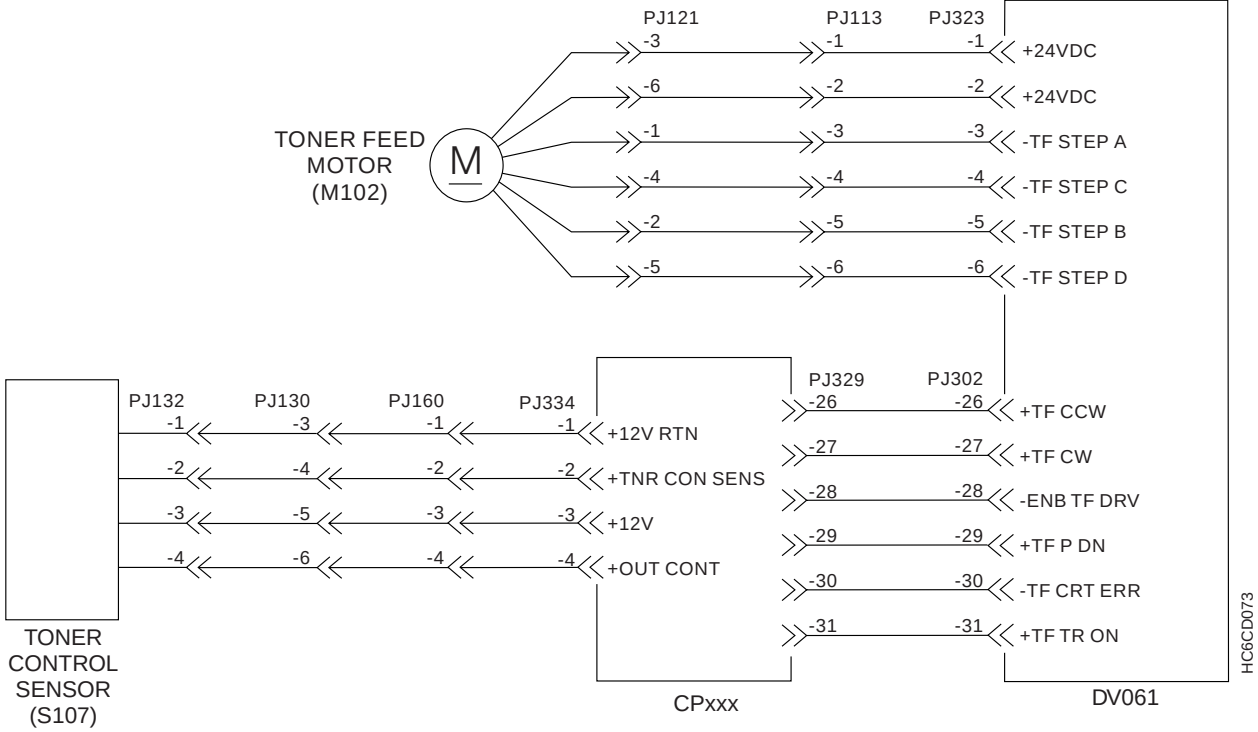
CD71 - Mag Brush Motor (M101) & Conveyor Roll Rotation Sensor (S110)



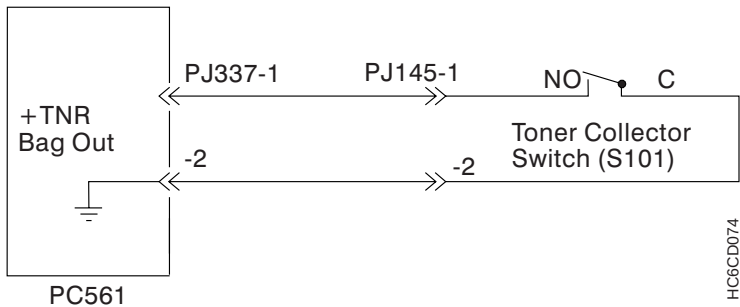
CD72 - Mag Brush Motor (M101) - Thermal Sense



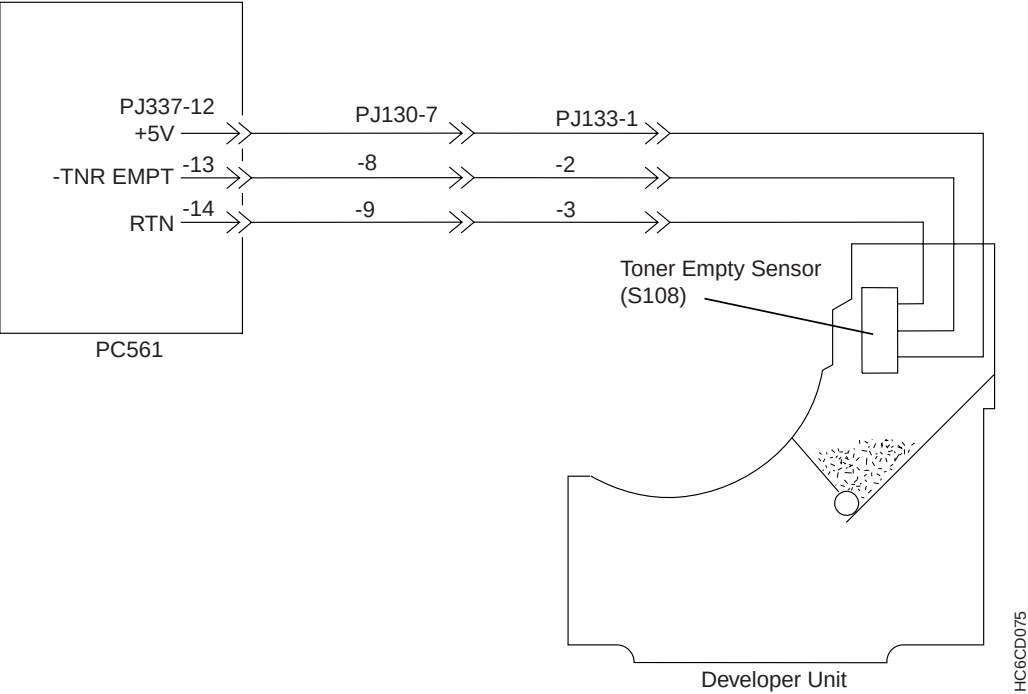
CD73 - Toner Control Sensor (S107) & Toner Feed Motor (M102)



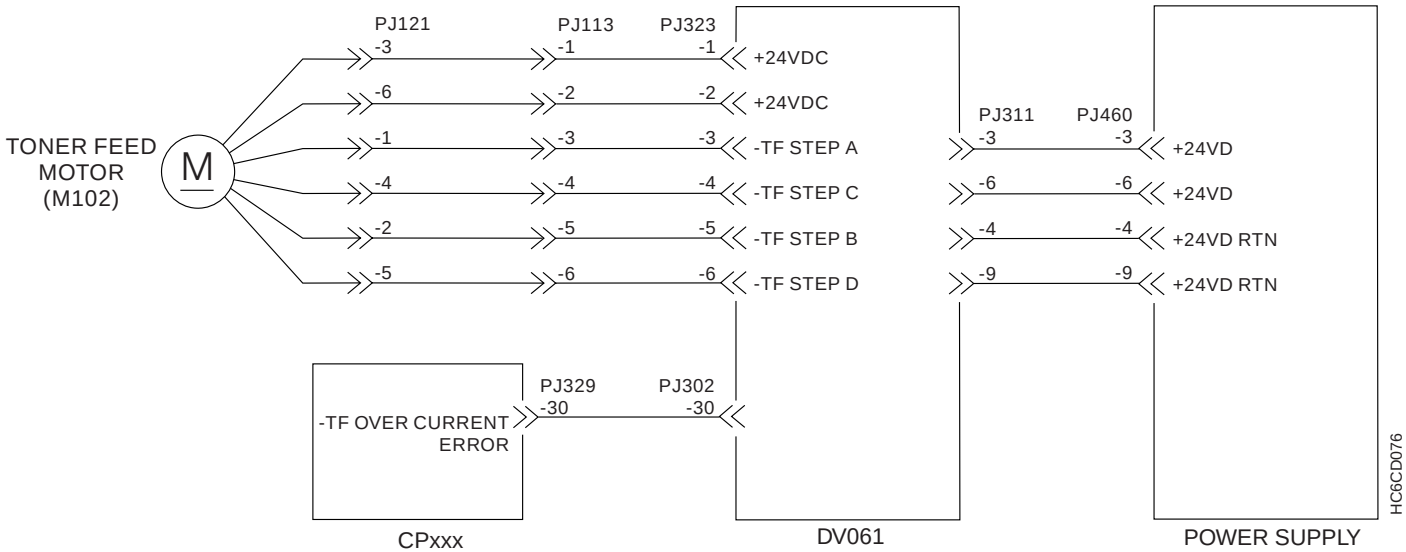
CD74 - Toner Collector Switch (S101)



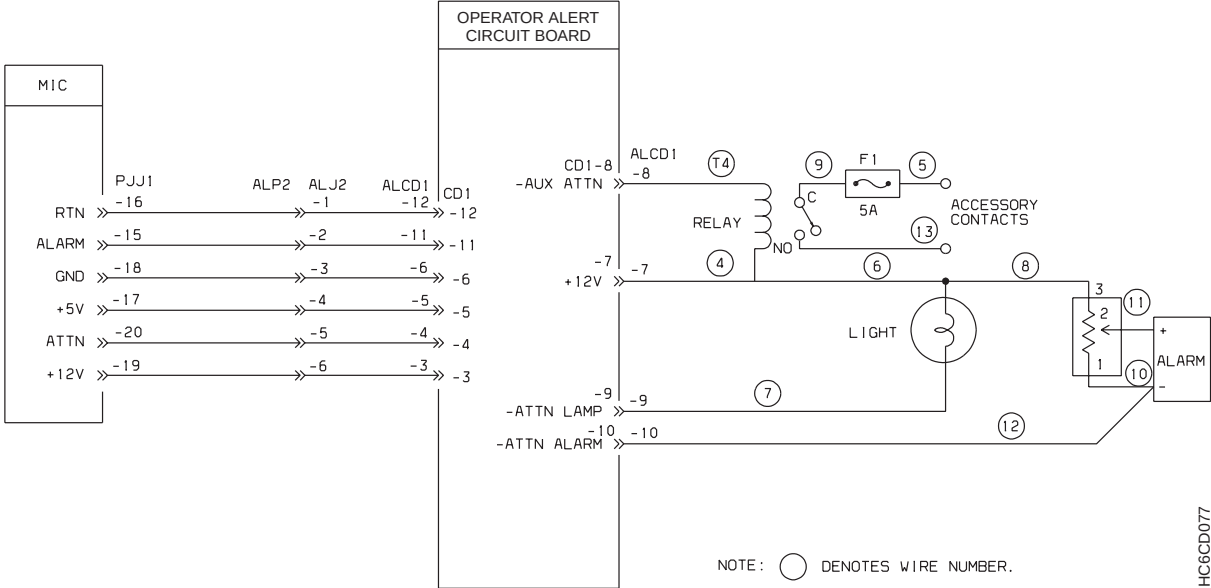
CD75 - Toner Empty Sensor (S108)



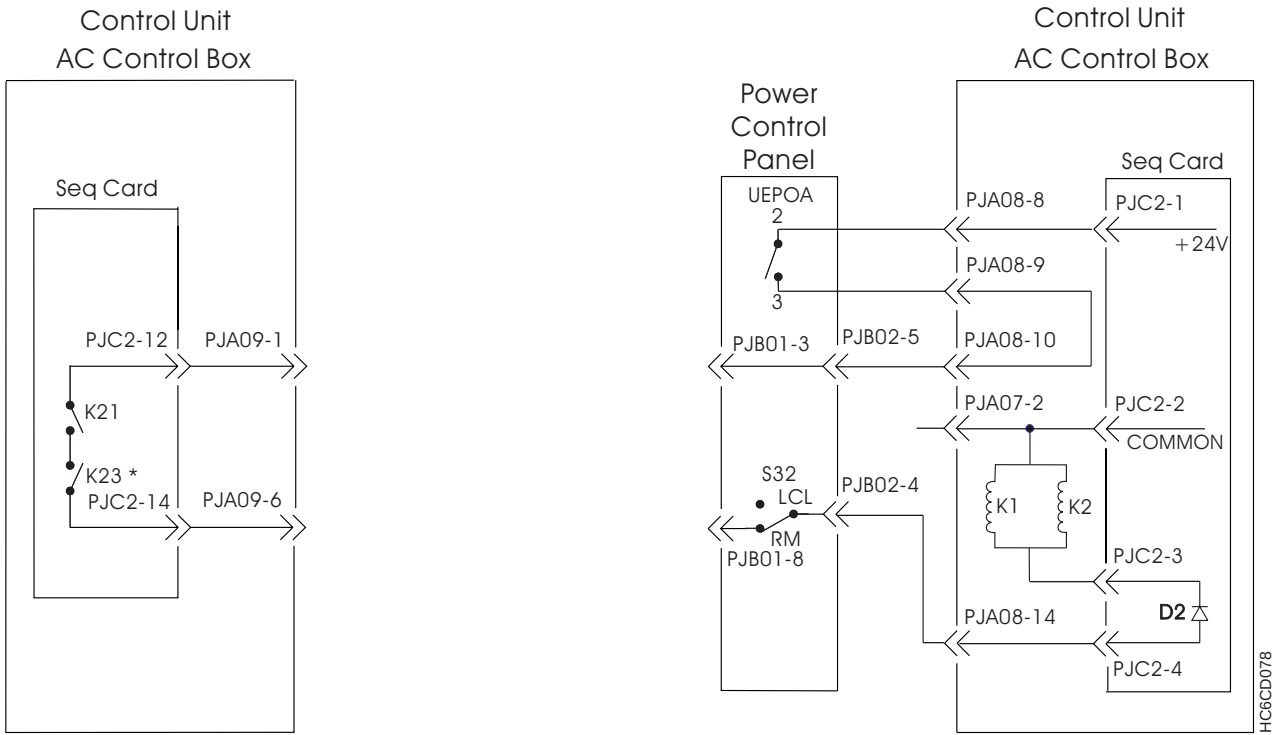
CD76 - Toner Feed Motor (M102)



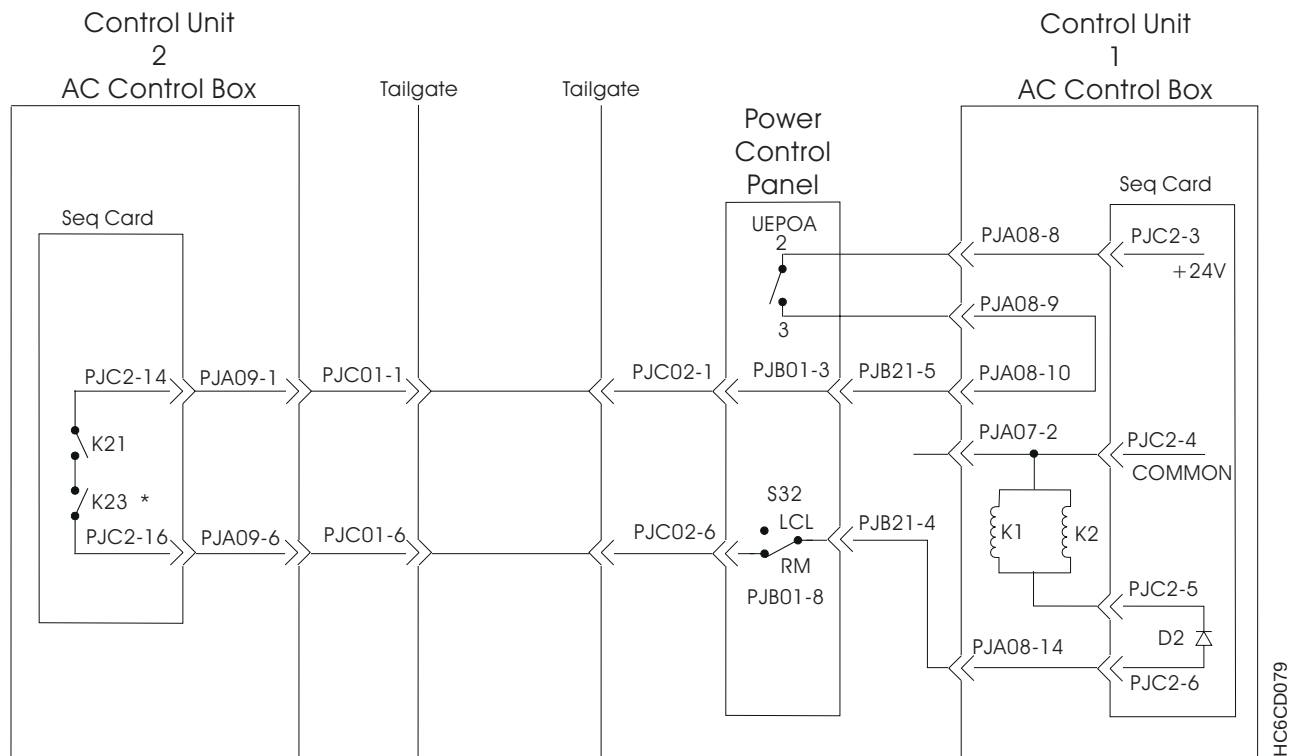
CD77 - Operator Alert



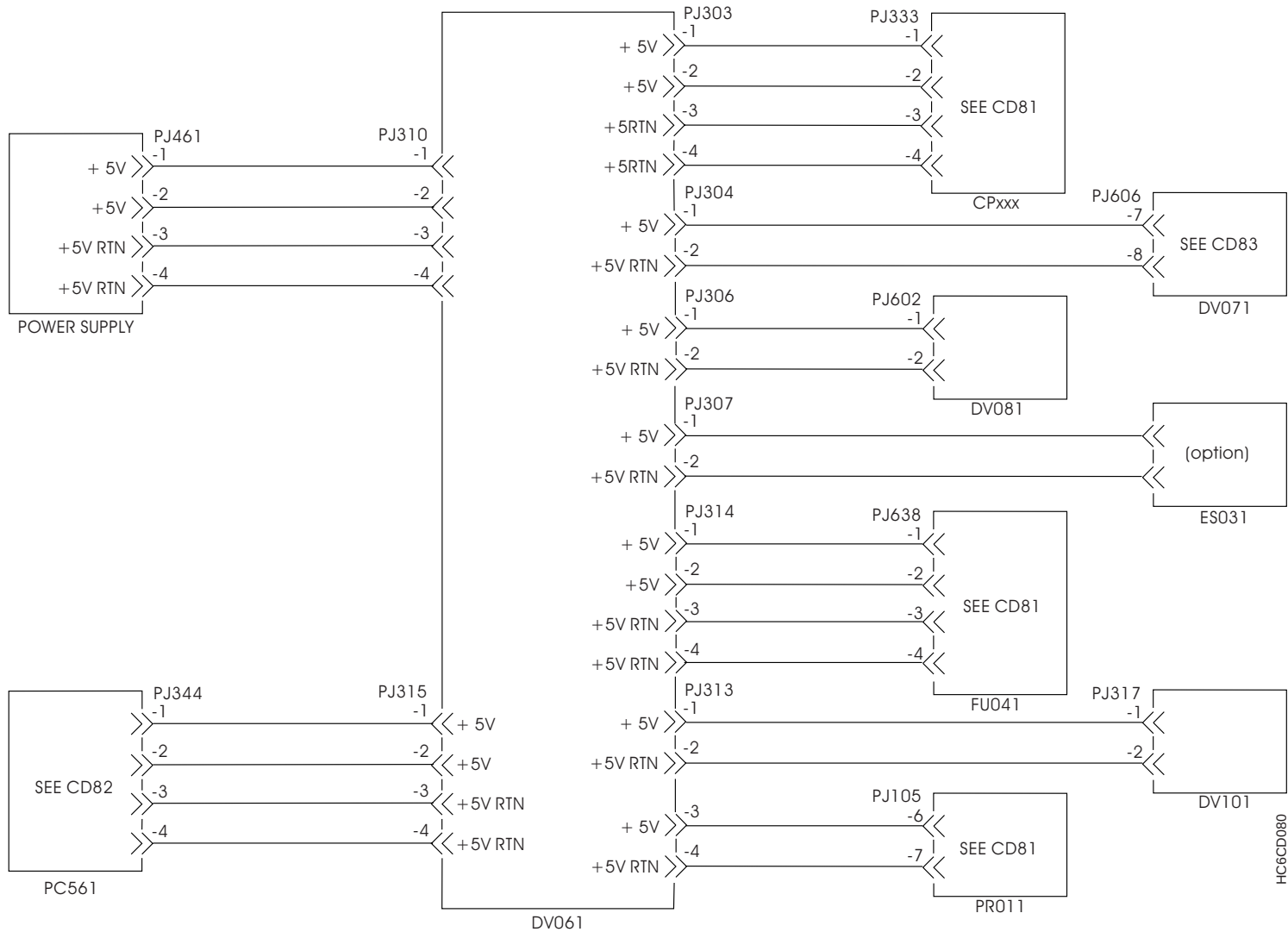
CD78 - Printer Remote Power Circuit



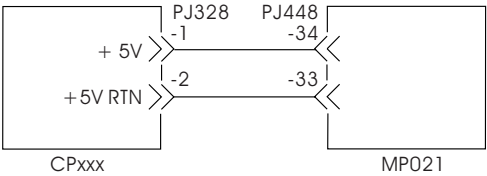
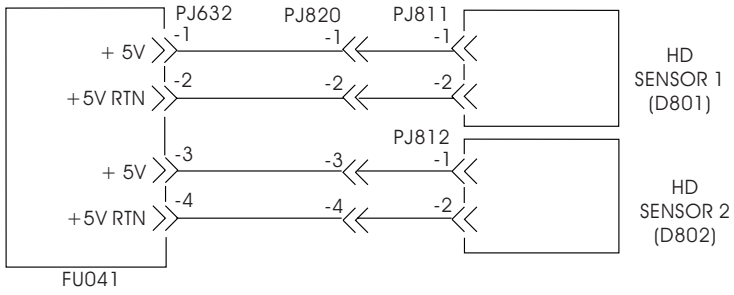
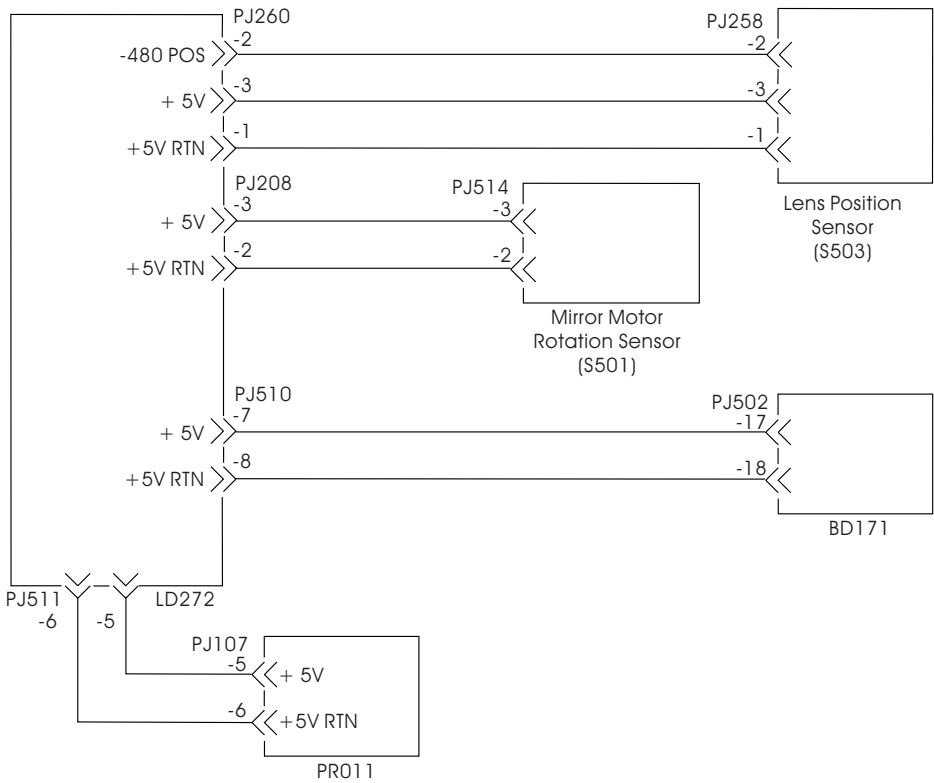
CD79 - Printer 1 Remote Power Circuit



CD80 - (+5 V) Voltage Distribution

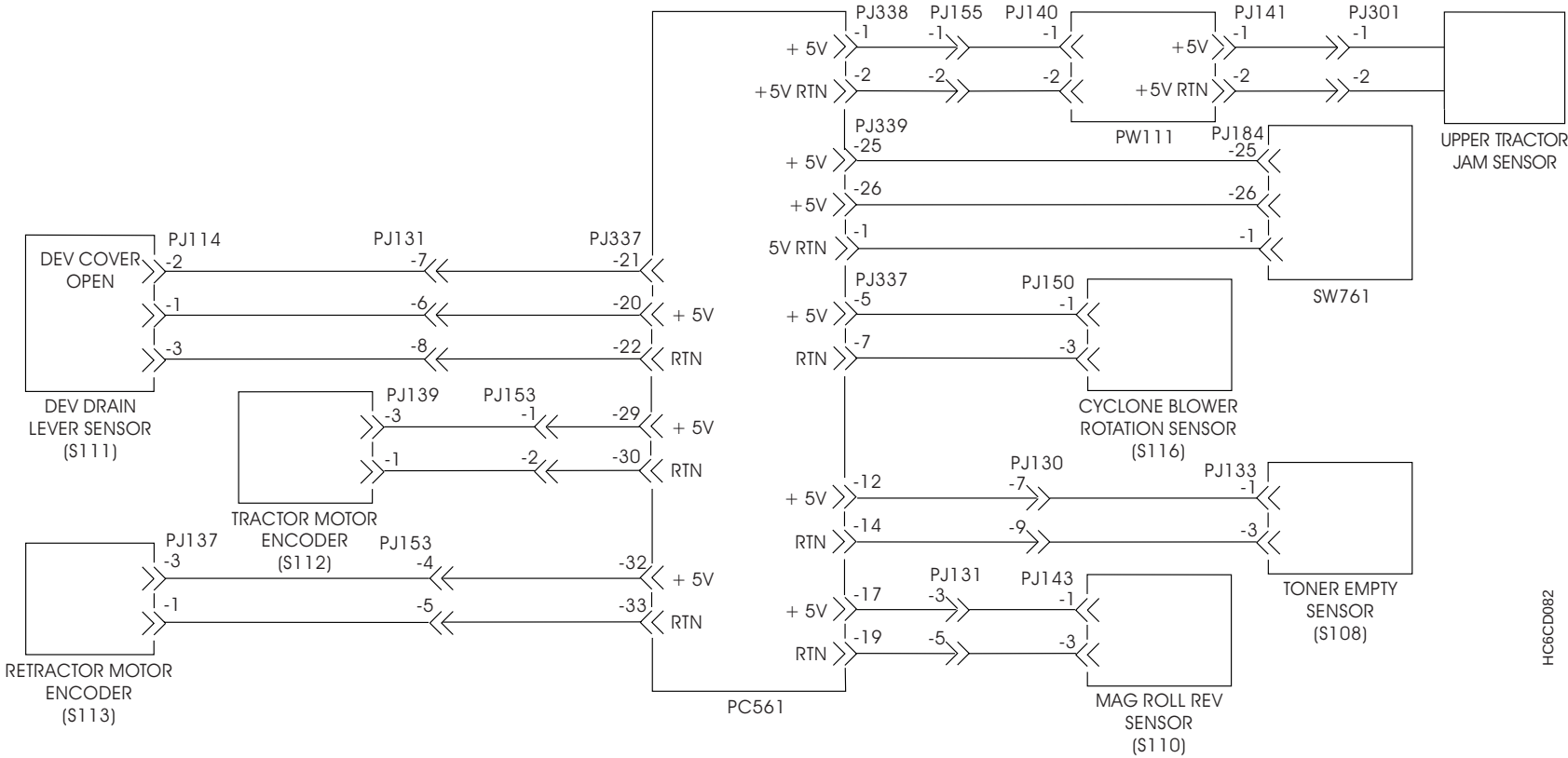


CD81 - (+5 V) Voltage Distribution



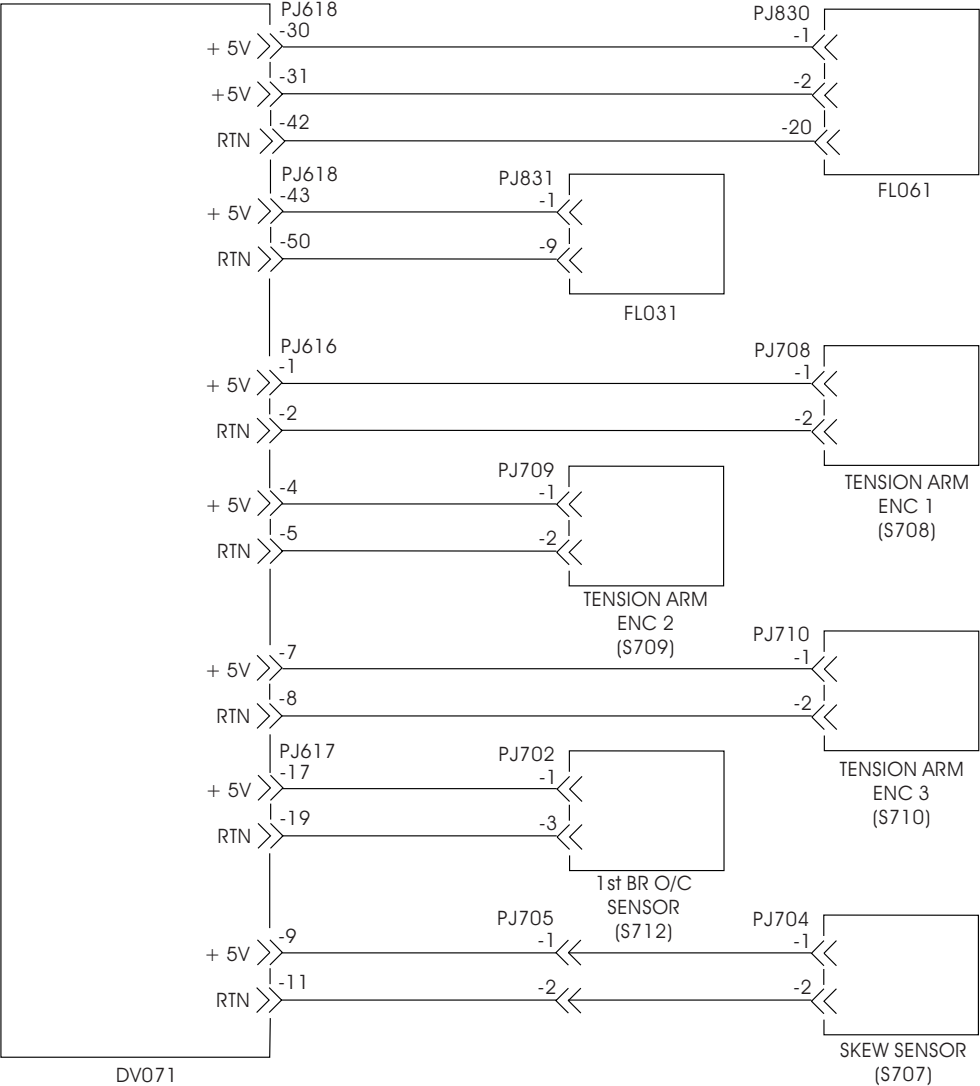
HC6CD081

CD82 - (+5 V) Voltage Distribution

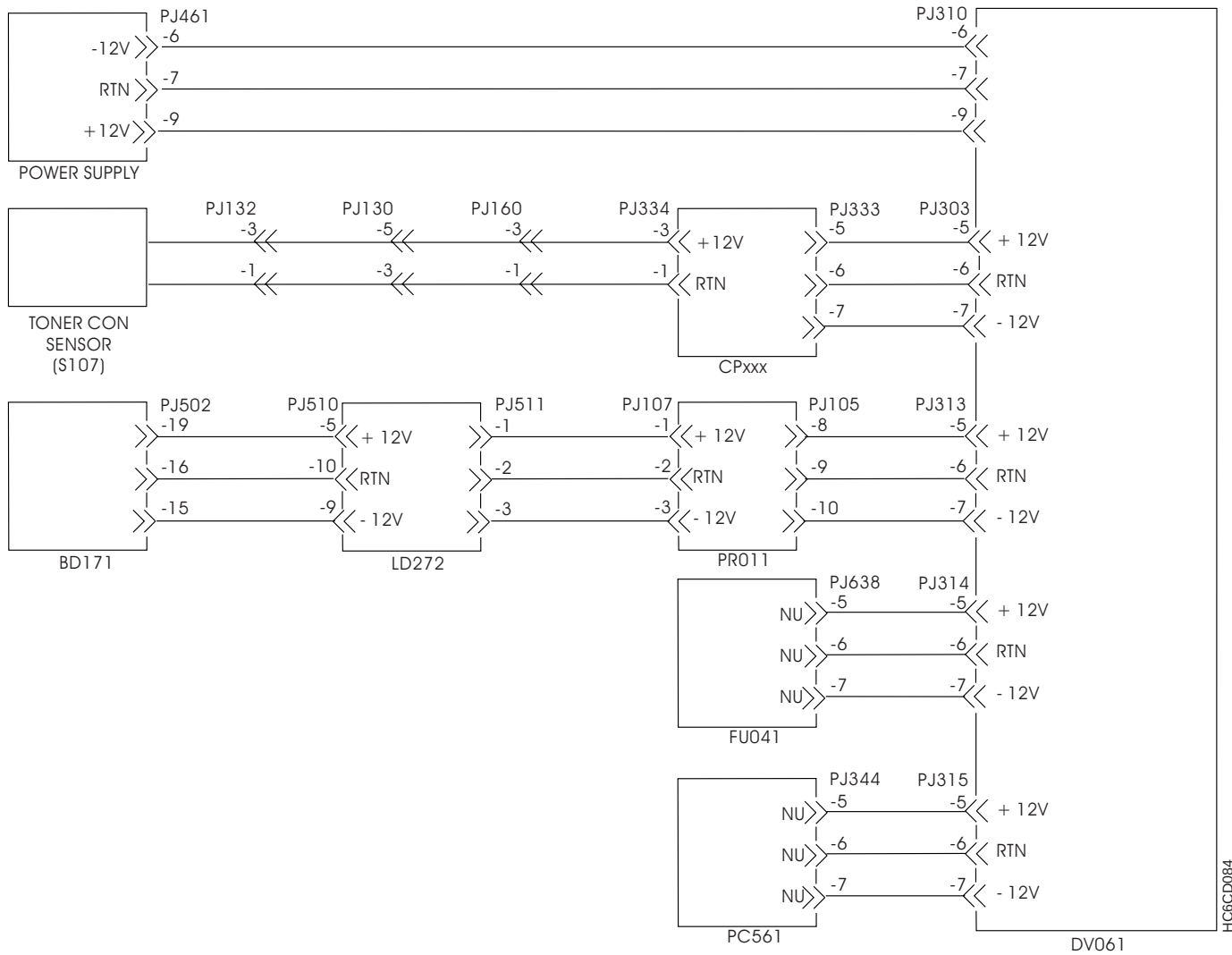


HC6CD082

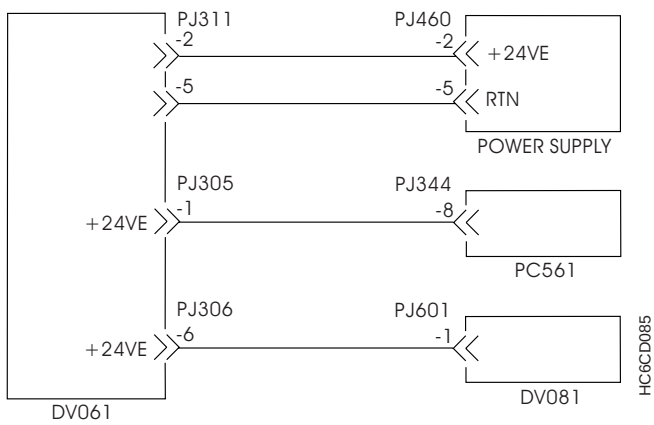
CD83 - (+5 V) Voltage Distribution



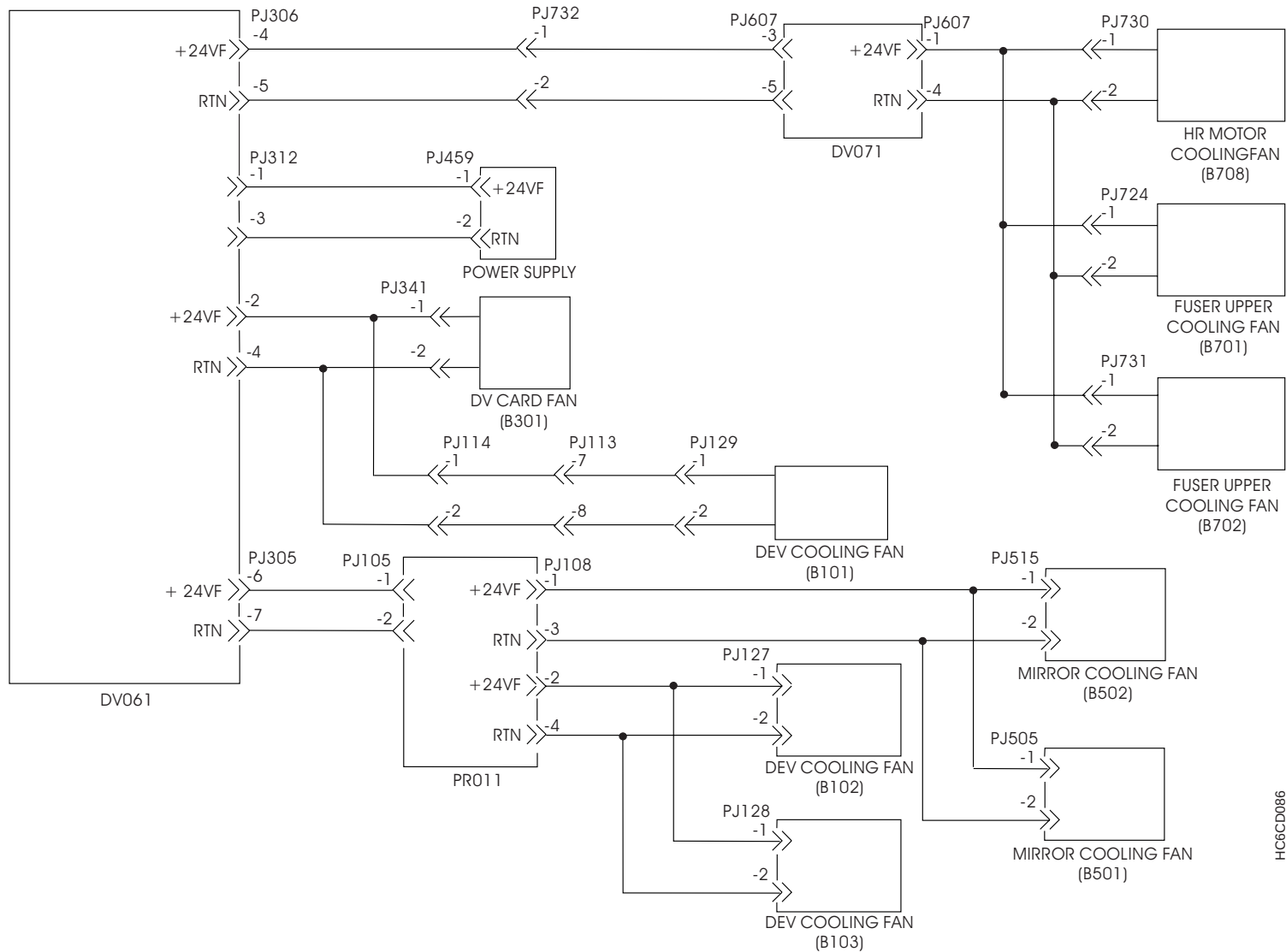
CD84 - (+/- 12V) Voltage Distribution



CD85 - (+24VE) Voltage Distribution

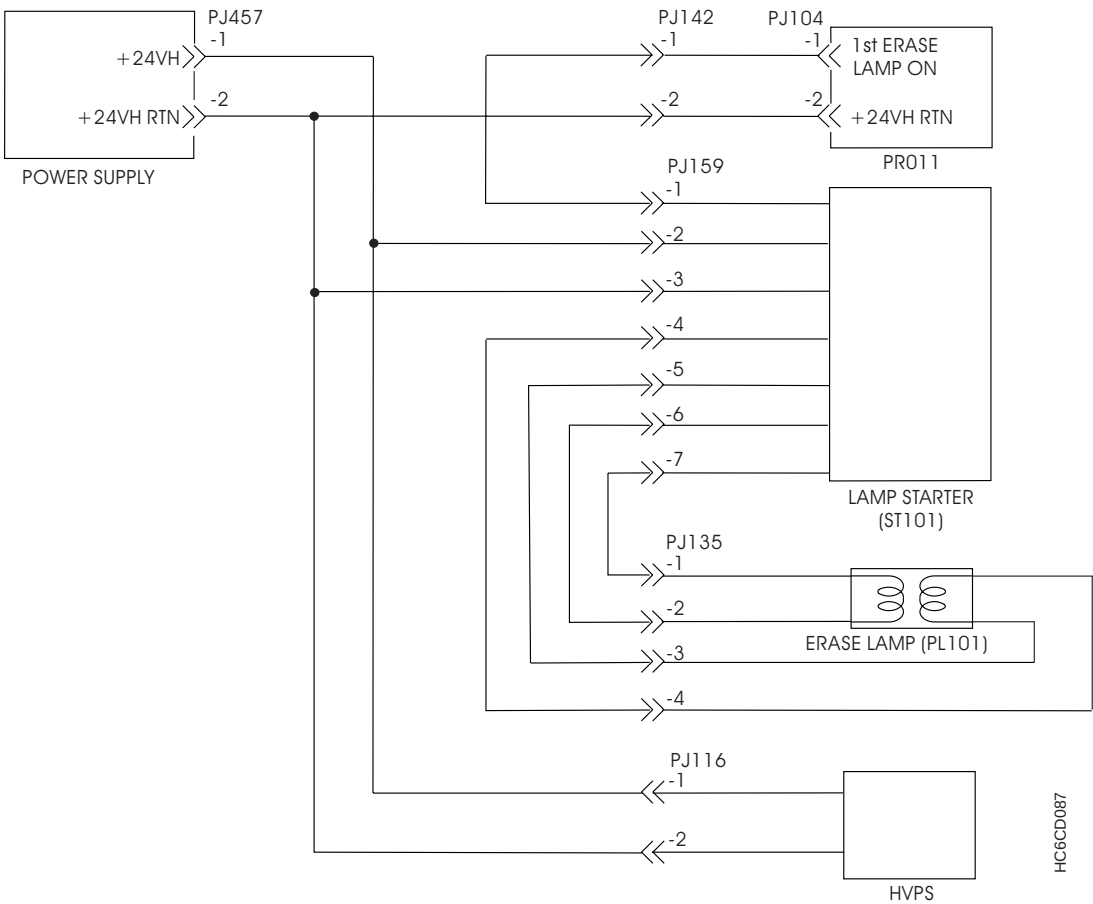


CD86 - (+24VF) Voltage Distribution

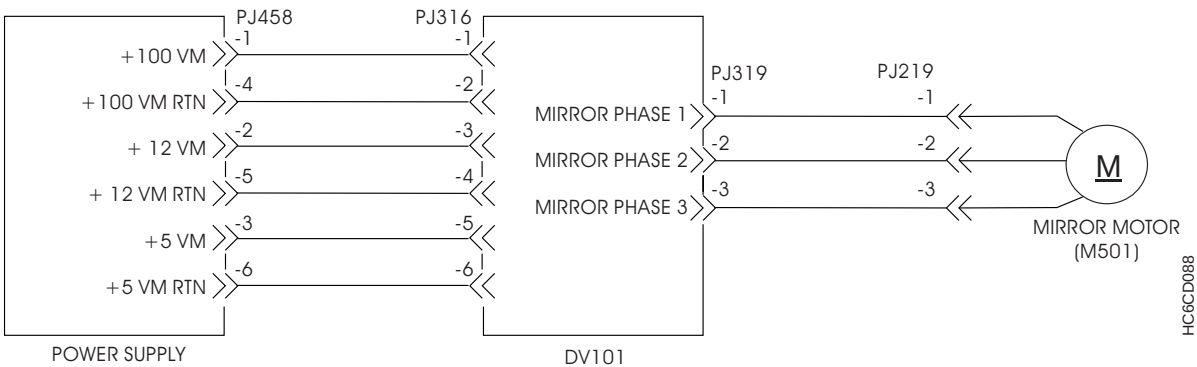


HC6CD086

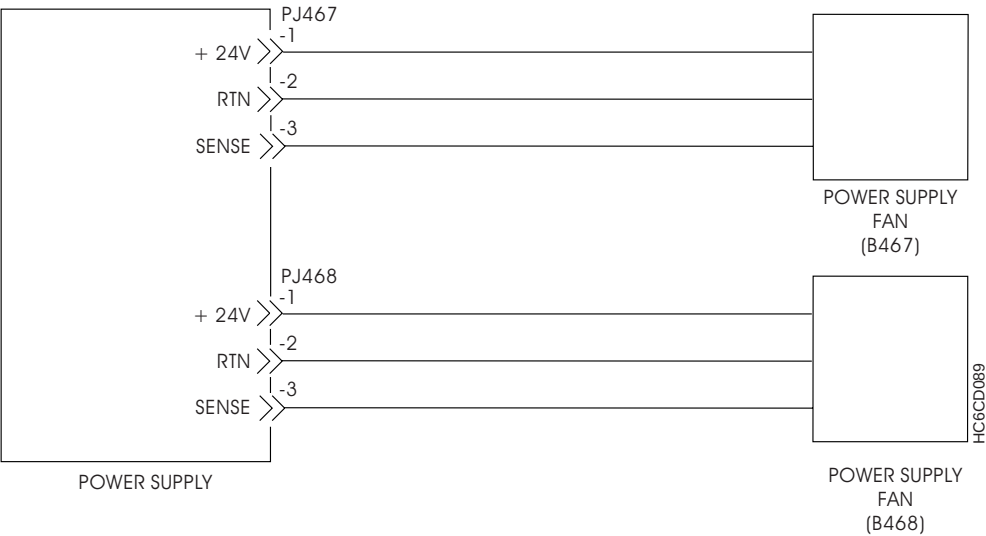
CD87 - (+24VH) Voltage Distribution



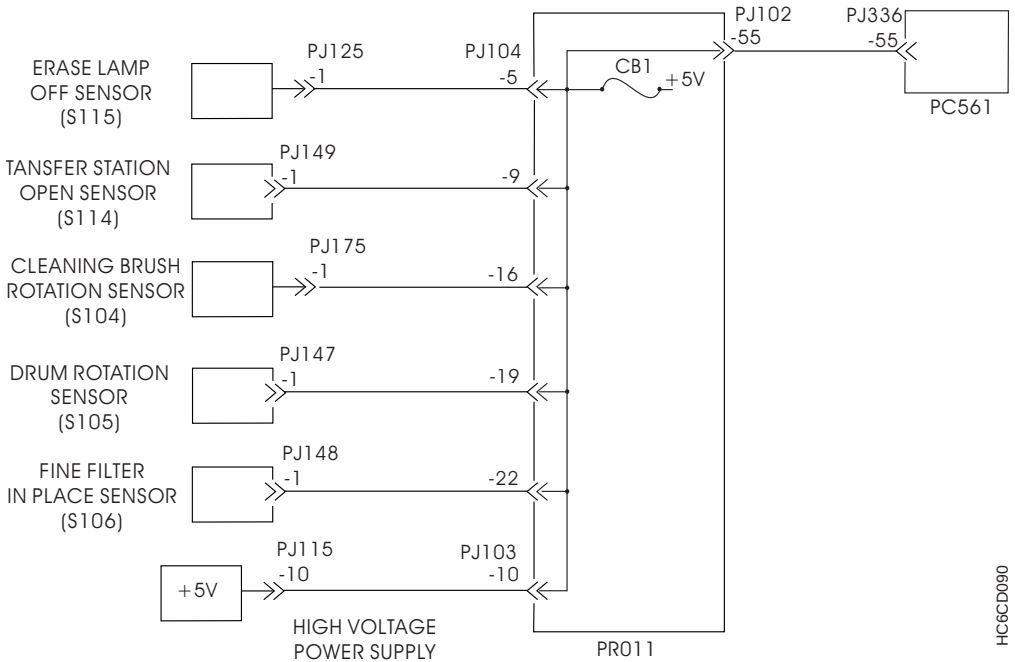
CD88 - (+5VM/+12VM/+100VM) Voltage Distribution (Mirror)



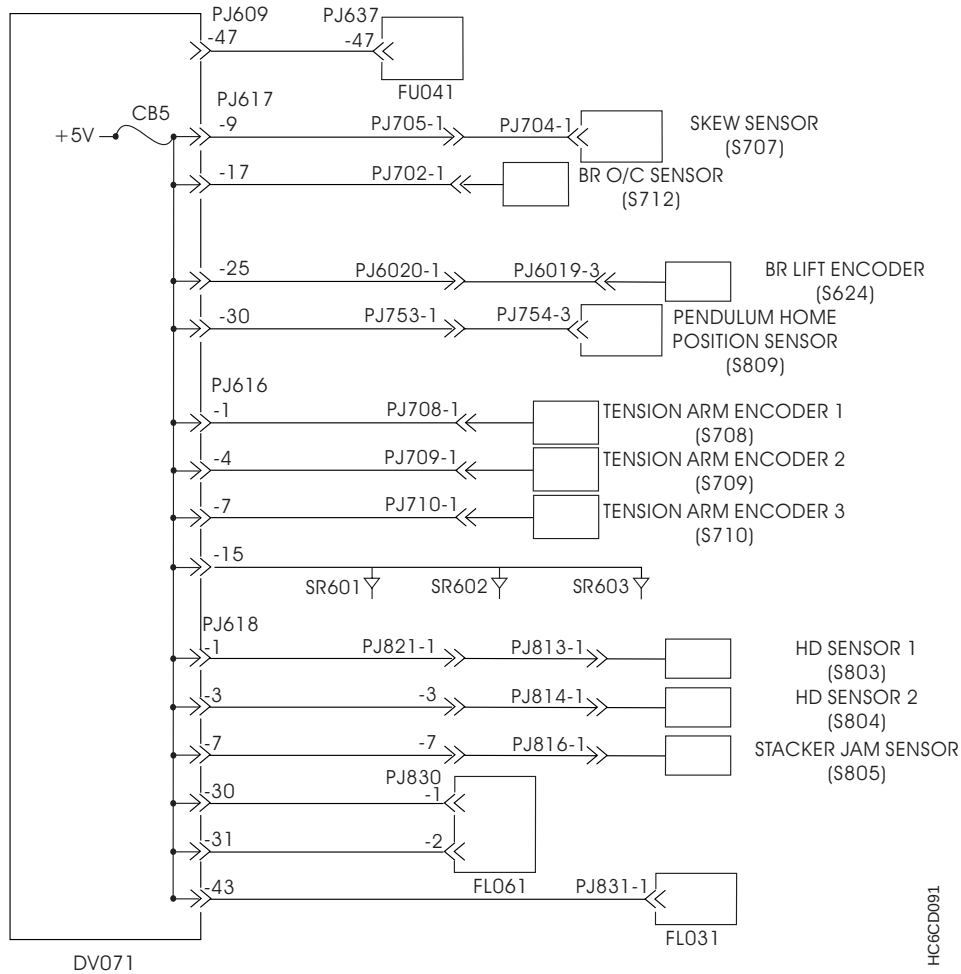
CD89 - (24VD) Power Supply (Fans)



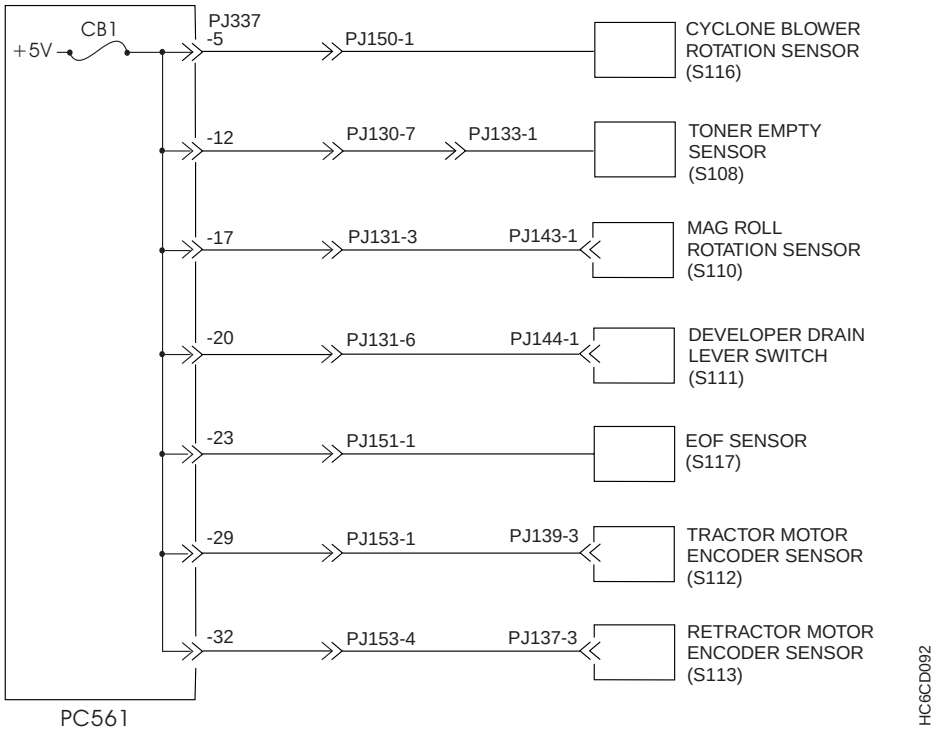
CD90 - PR011 Sensor Circuit Breaker



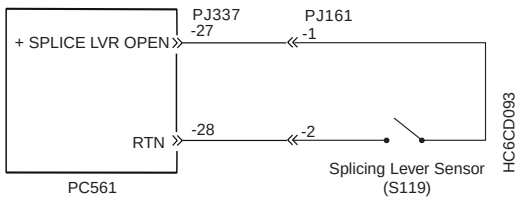
CD91 - ST Sensor Circuit Breaker



CD92 - ST Sensor Circuit Breaker



CD93 - Splicing Station



Chapter 3. Block Diagrams - Logic Flow

BD01 - 7025 Model F50 RS/6000 Controller. 191

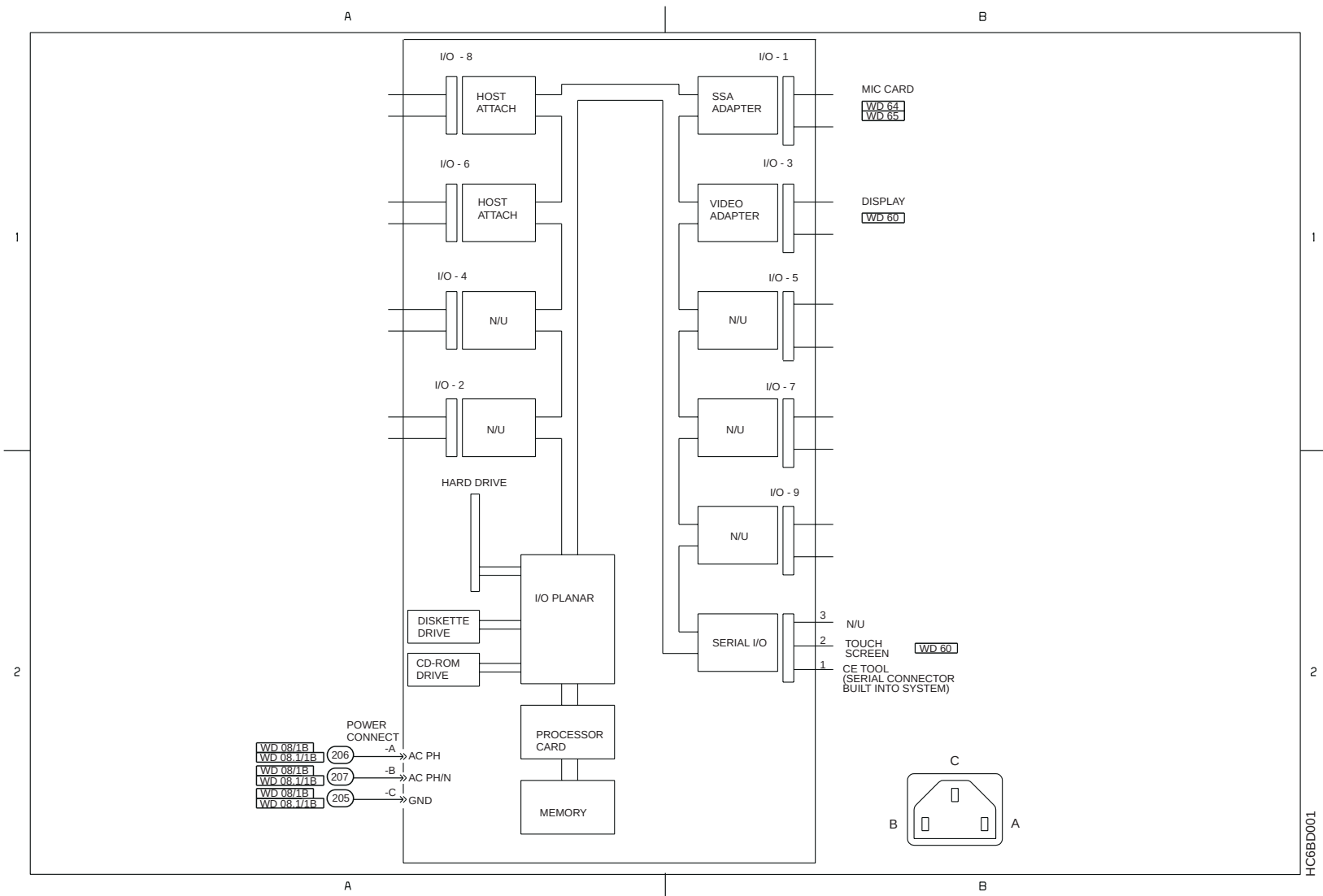
BD02 - 7043 Model 140-43P RS/6000 Controller 192

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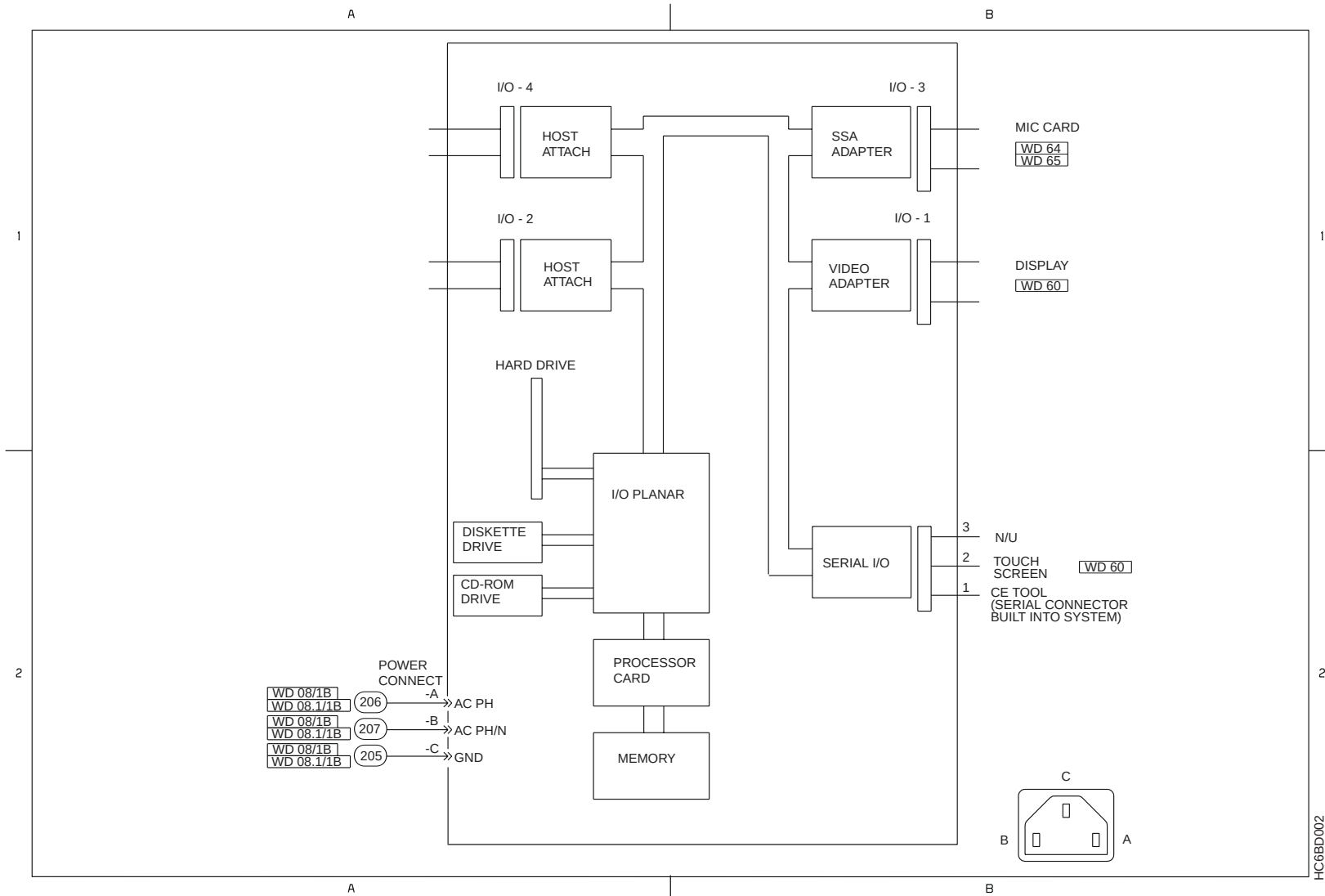
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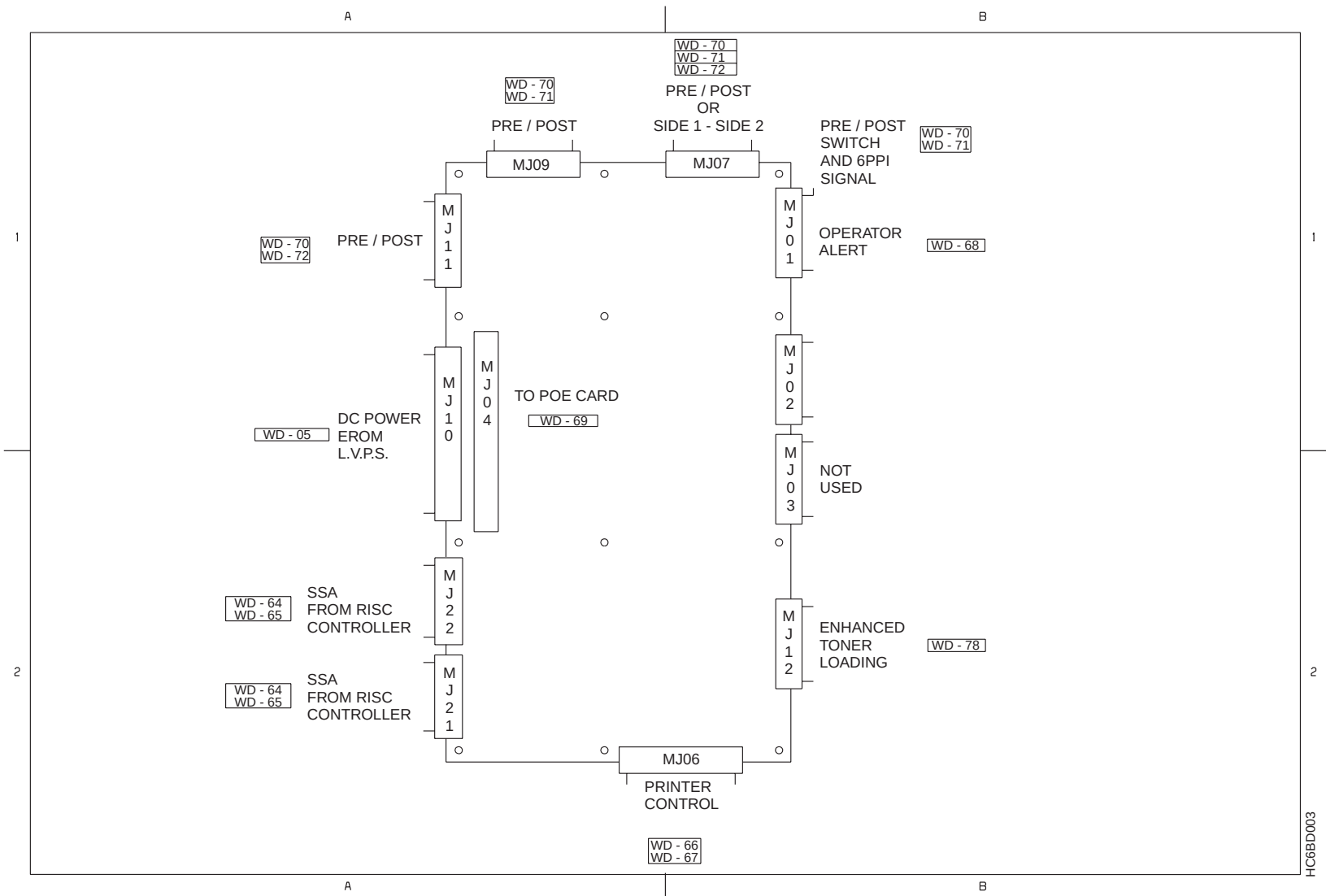
BD01 - 7025 Model F50 RS/6000 Controller



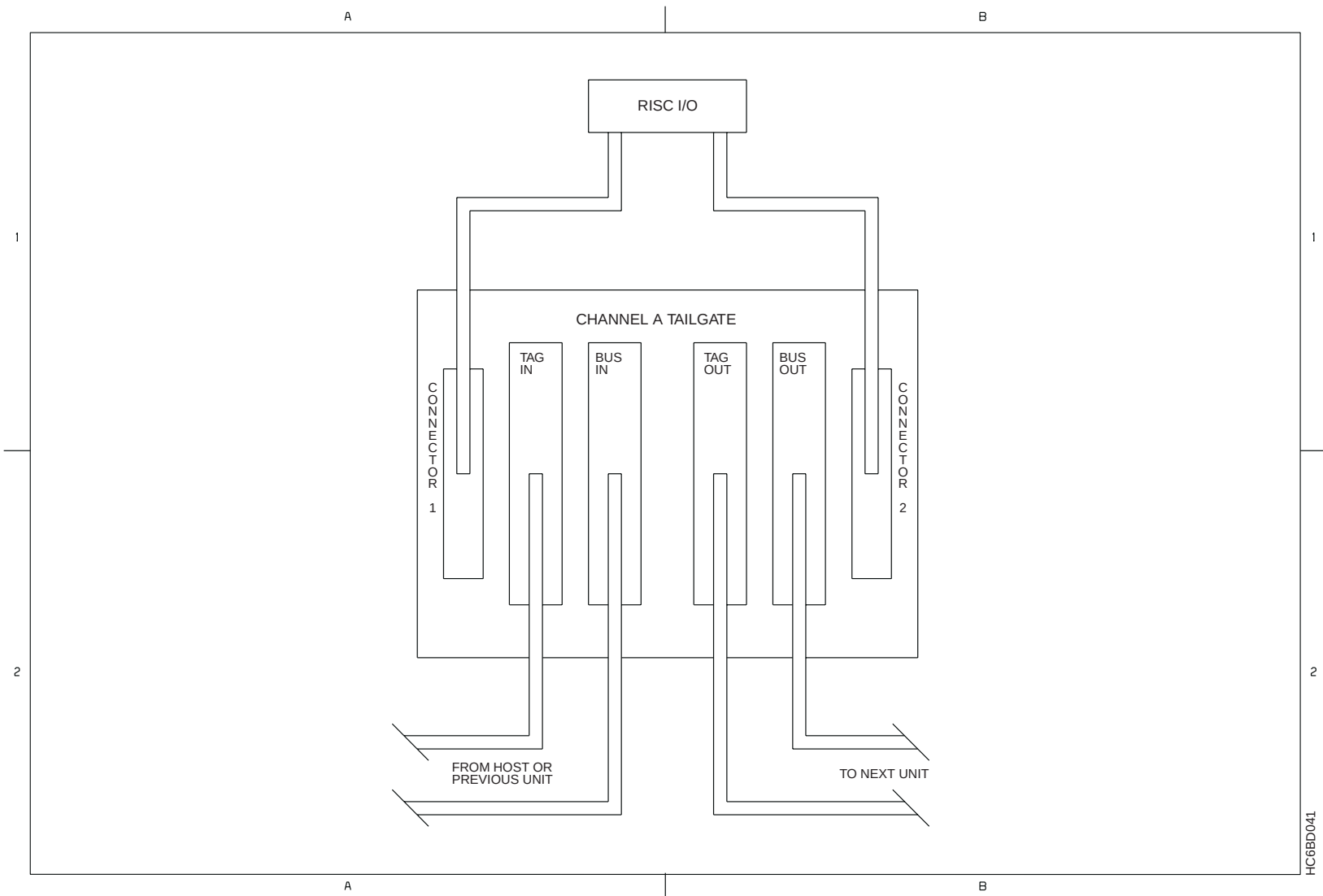
BD02 - 7043 Model 140-43P RS/6000 Controller



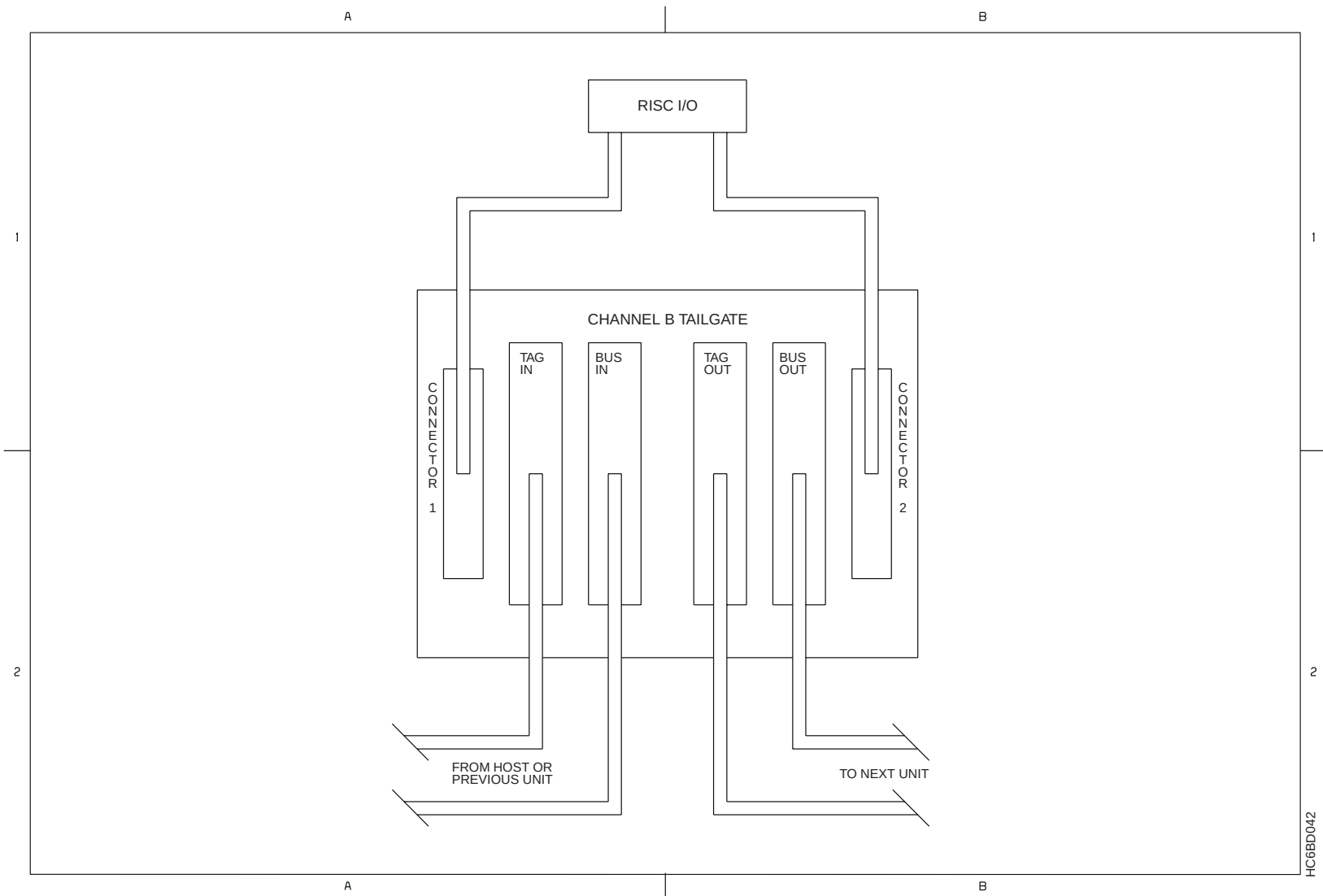
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 PJ723 - WD41/1A 57
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 PJ726 - WD44/1A 60
 PJ727 - WD44/1A 60
 PJ728 - WD44/1A 60
 PJ729 - WD44/2A 60
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 PJ732 - WD44/2A 60
 PJ745 - WD45/1B 61
 PJ746 - WD15/2B 35
 PJ751 - WD50/1B 67
 PJ752 - WD42/1B 58
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 PJ803 - WD15/1B 35
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 PJ805 - WD39/1B/2B 55
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 PJA05 - WD09/1B 30
 PJA06 - WD08/1B 29
 PJA06 - WD09/1B 30
 PJA07 - WD08/2B 29
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 PJB02 - WD06/1A 27
 PJB02 - WD07/1A 28
 PJC01 - WD10/1B 31
 PJC01 - WD11/1B 32
 PJC02 - WD10/1B 31
 PJC02 - WD11/1B 32
 PJC03 - WD10/2B 31
 PJC03 - WD11/2B 32
 PJC3 - WD08/2A 29
 PJC3 - WD09/2A 30
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 PJF01 - WD71/1A 87
 PJF02 - WD70/1A 86
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 PJF04 - WD71/1B 87
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 PJF06 - WD70/1B 86
 PJF06 - WD71/1B 87
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 PJH02 - WD05/1A/2A 26
 PJH03 - WD05/1A/2A 26
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 PJJ12 - WD75/1B 91
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 PJJ7 - WD70/1A 86
 PJJ7 - WD71/1A 87
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 PJJ879 - WD05/1A 26
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PJT01 - WD74/1B 90
PN01 - WD05/2A 26
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WD08 29
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WD06 27
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CD54 151
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WD37 53
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MIC to coupled pre/postprocessor
interface - WD70 86
MIC to intelligent postprocessor -
WD71 87
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WD68 84
MIC to printer control cable (1 of 2) -
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- mag brush motor - CD71 168
- mag brush motor, thermal sense - CD72 169
- run switch - CD17 116
- S107 - CD73 170
- S109 - CD17 116
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- S709 - WD56/1A 73
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M103 - CD01 100
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M101 - WD13/2B 34
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scuff roll - CD59 156
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PJ101 - WD35/2B 51
PJ101 - WD36/2A 52
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PJ102 - WD35/2B 51
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