

General Timing Chart / General Circuit Diagram

iR C6800 Series

iR C6800C

Canon

IMPORTANT

This documentation is published by Canon Inc., Japan, to serve as a source of reference for work in the field.

Specifications and other information contained herein may vary slightly from actual machine values or those found in advertising and other printed matter.

Any questions regarding the information contained herein should be directed to the Copier Service Department of the Sales Company.

This documentation is intended for all sales areas, and may contain information not applicable to certain areas.

Reproduction without permission not allowed.

Use of this manual should be strictly supervised to avoid disclosure of confidential information.

COPYRIGHT 2001 CANON INC.

Printed in Japan

Caution

Use of this manual should be strictly supervised to avoid disclosure of confidential information.

Contents

1 General Timing Chart.....	1
Full color	1
Mono color	2
2 General Circuit Diagram	3
Signal Names.....	3
General Circuit Diagram	15

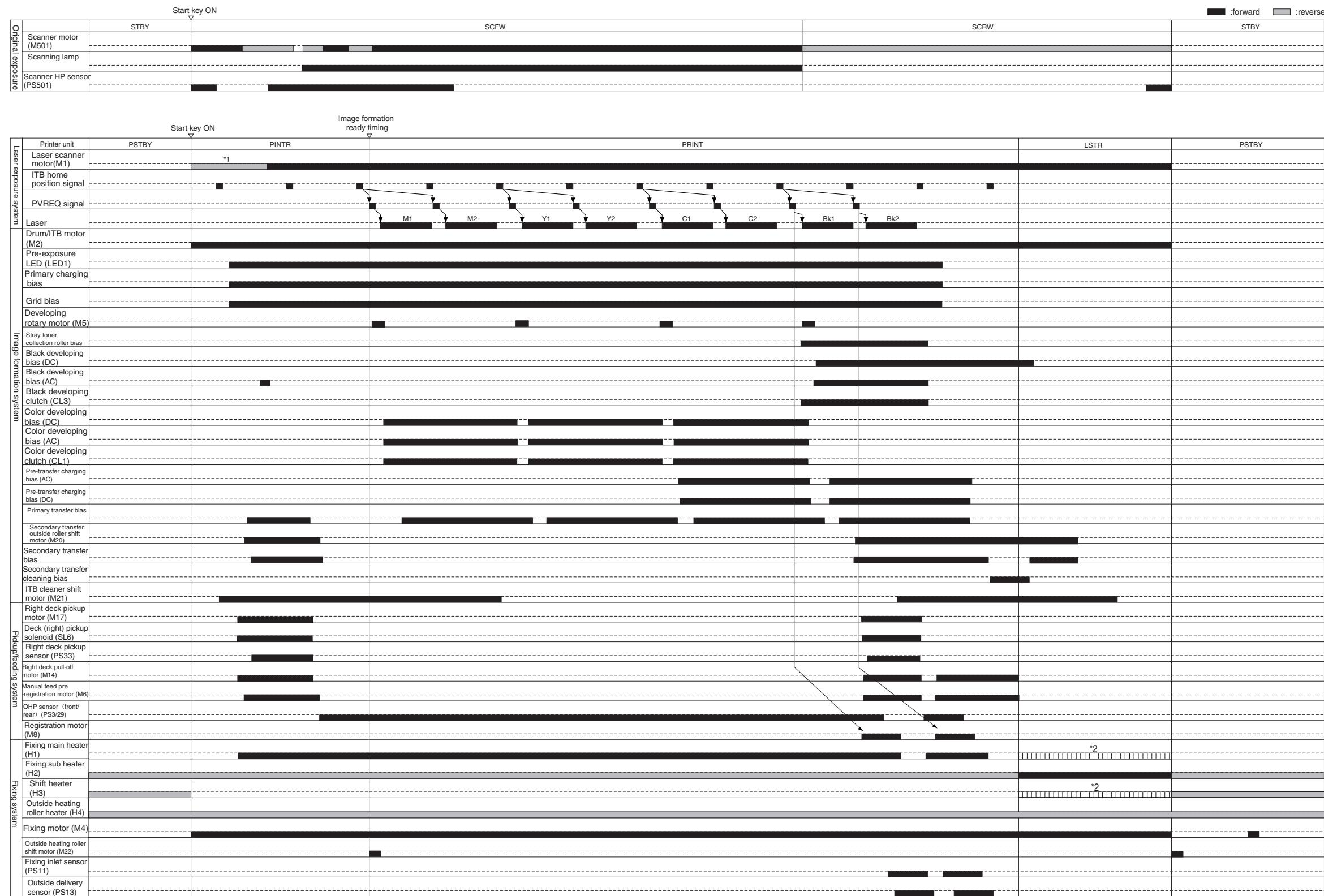
1 General Timing Chart

Full color

<Conditions>

reading: book, 1 A4 original

printing: A4, plain paper, single-sided, full color, 2 prints



*1: interval used to stabilize the rotation.

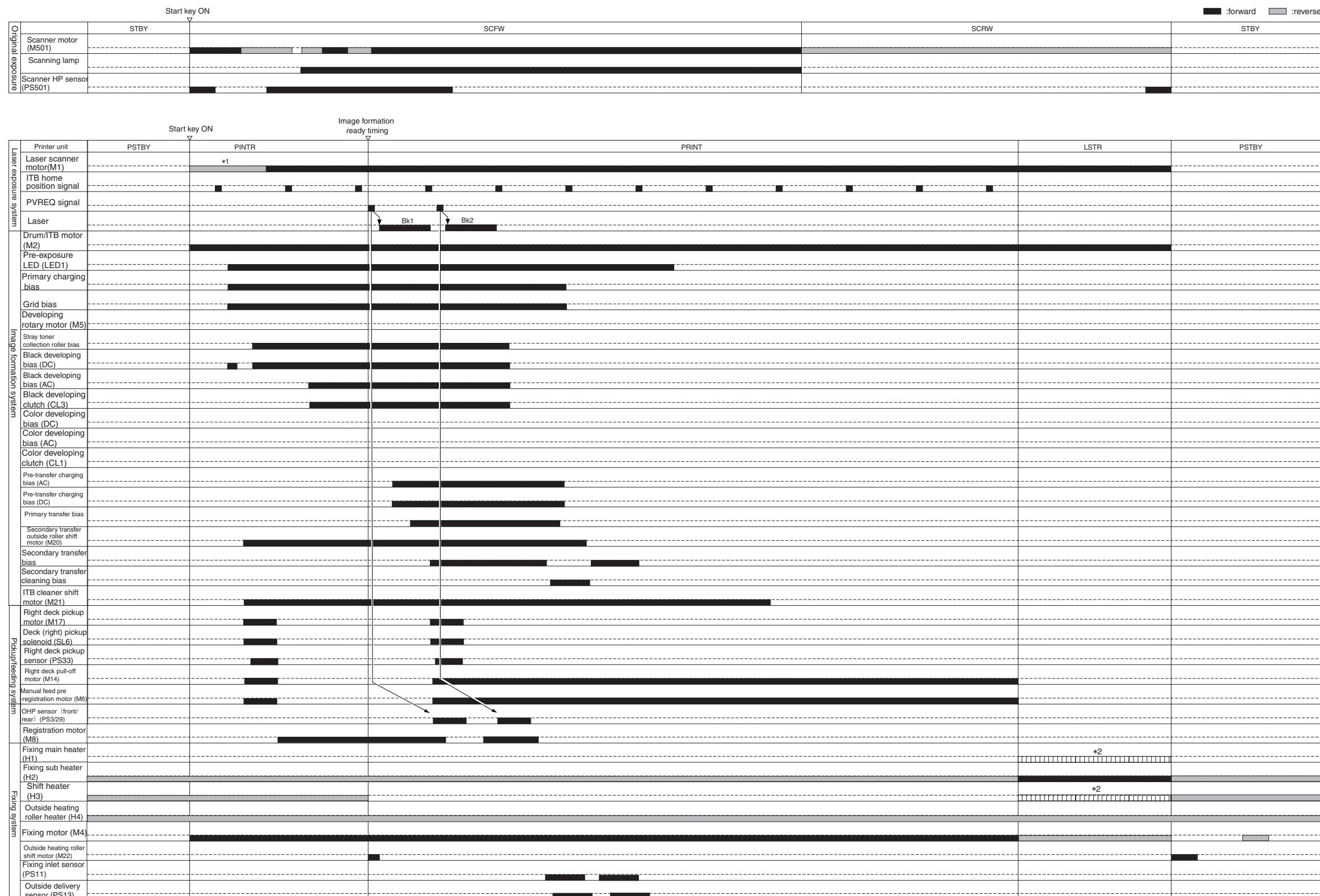
*2: interval during which the main heater and the sub heater are tuned on alternately.

Mono color

<Conditions>

reading: book mode, 1 A4 original

printing: A4, plain paper, single-sided, mono color, 2 prints



*1: interval used to stabilize the rotation.

*2: interval during which the main heater and the sub heater are tuned on alternately.

2 General Circuit Diagram

Signal Names

List Of Signals

T-2-1

Abbreviation	Signal name
AFTER_TRNS_HP_S NS	post-transfer paper detection signal
ATR_REF	ATR sensor reference signal
ATR_SIG	ATR sensor signal
ATR_VCC	ATR power supply signal
ATR_VSS	ATR sensor light detection signal
ATRLED_ON	ATR sensor light emission signal
ATRSL_ON	ATR shutter solenoid drive signal
BK_CRG_DOOR_OP N	hopper cover open/closed detection signal
BK_DC_CONT	black development DC bias control signal
BK_DEV	black developing bias drive signal
BK_DEV_CL	black development clutch drive signal
BK_TNR_REMAIN	black toner level detection signal
CHD_CLK	side deck clock signal
CHO_RXD	side deck communication signal 0
CHO_RXLOAD*	side deck data request signal
CHO_TXD	side deck communication signal 1
CHO_TXEND*	side deck communication final signal
CHO_TXOUTEN*	side deck data enable signal
CL_CRG_DTC	color toner cartridge present/absent signal
CL_DEV	color developing bias drive signal
CL_TNR_REMAIN	color toner level detection signal (light-receiving segment)
CL_TNR_SNS_ON	color toner level detection signal (light-emitting segment)
CLR_DC_CONT	color developing DC bias control signal
CLR_DEV_CL	color developing clutch drive signal
CLR_TNR_SPLY_C L	color toner supply clutch drive signal

Abbreviation	Signal name
CMNCLK_A1	HVT1 high-voltage bias reference signal
CMNCLK_A1	HVT2 high-voltage bias reference signal
CNT0	laser control signal 0
CNT1	laser control signal 1
CRG_MTR_ON	black toner supply motor drive signal
CST_FEED_M_CLK A	cassette pickup motor drive signal A
CST_FEED_M_CLK AB	cassette pickup motor drive signal AB
CST_FEED_M_CLK B	cassette pickup motor drive signal B
CST_FEED_M_CLK BB	cassette pickup motor drive signal BB
CST_HEAT_ON	cassette heater drive signal
CUAL_FAN	delivery cooling fan 1 drive signal
CUAL_FAN_ERR	delivery cooling fan 1 error detection signal
D_LOAD	finisher start-up signal
DCP_FAN_LOK*	power supply fan lock detection signal
DCP_Rem0	power supply remote signal 0
DCP_Rem1	power supply remote signal 1
DCP_Rem2	power supply remote signal 2
DCP_Rem3	power supply remote signal 3
DEIL_FLAP_SL	delivery reversing solenoid drive signal
DEV_BK_AC_ON	black developing AC bias drive signal
DEV_BK_DC_ON	black developing DC bias drive signal
DEV_CL_AC_ON	color developing AC bias drive signal
DEV_CL_DC_ON	color developing DC bias drive signal
DEV_MTR_CLK	developing motor reference signal
DEV_MTR_CW/CCW	developing motor drive detection switchover signal
DEV_MTR_ID	development motor identification signal
DEV_MTR_LOK*	development motor lock detention signal
DEV_MTR_ON	development motor drive signal
DEV_MTR_SEL	development motor speed switchover signal
DEVBKCLK1	black developing bias reference signal A

Abbreviation	Signal name
DEVCLCLK_A1	color developing bias reference signal A
DEVCLCLK_B1	color developing bias reference signal B
DRAM_HP_SNS	drum HP detection signal
DRUM_HEAT_ON	drum heater drive signal
DRUM_MTR_BRAKE	drum/ITB motor drive direction switchover signal
DRUM_MTR_CLK	drum/ITB motor reference signal
DRUM_MTR_ID	drum/ITB motor identified signal
DRUM_MTR_LOK*	drum/ITB motor lock detection signal
DRUM_MTR_ON	drum/ITB motor drive signal
DRUM_MTR_SEL	drum/ITB motor speed switchover signal
DUP_FEED_SNS	duplexing left detection signal
DUPLEX_CENTER_M_CLK_A	depleting middle motor drive signal A
DUPLEX_CENTER_M_CLK_AB	duplexing middle motor drive signal AB
DUPLEX_CENTER_M_CLK_B	duplexing middle motor drive signal B
DUPLEX_CENTER_M_CLK_BB	duplexing middle motor drive signal BB
DUPLEX_LEFT_M_CLK_A	duplexing left motor drive signal A
DUPLEX_LEFT_M_CLK_AB	duplexing left motor drive signal AB
DUPLEX_LEFT_M_CLK_B	duplexing left motor drive signal B
DUPLEX_LEFT_M_CLK_BB	duplexing left motor drive signal BB
DUPLEX_REV_M_C_LK_A	duplexing reversal motor drive signal A
DUPLEX_REV_M_C_LK_AB	duplexing reversal motor drive signal AB
DUPLEX_REV_M_C_LK_B	duplexing reversal motor drive signal B
DUPLEX_REV_M_C_LK_BB	duplexing reversal motor drive signal BB
DUPLEX_RIGHT_M_CLK_A	duplexing right motor drive signal A

Abbreviation	Signal name
DUPLEX_RIGHT_M_CLK_AB	duplexing right motor drive signal AB
DUPLEX_RIGHT_M_CLK_B	duplexing right motor drive signal B
DUPLEX_RIGHT_M_CLK_BB	duplexing right motor drive signal BB
ELIMINATE	static eliminator bias drive signal
ENV_HUM_CLK	environment sensor reference signal
ENV_TEMP	environment sensor detection signal
EPC_SIG	potential sensor reference signal
EPC_SNS_ON	potential sensor detection signal
EX_FIX_HP_SNS	outside heating roller HP detection signal
EX_FIX_P_MTR_A	outside heating roller shift motor drive signal A
EX_FIX_P_MTR_A*	outside heating roller shift motor drive signal A*
EX_FIX_P_MTR_B	outside heating roller shift motor drive signal B
EX_FIX_P_MTR_B*	outside heating roller shift motor drive signal B*
EX_FIX_THM_EDG_E_IN	outside heating sub thermistor detection signal
EX_FIX_THM_IN	outside heating main thermistor detection signal
EX-HEAT-ON	outside heating roller heater drive signal
EXP_LED	pre-exposure LED drive signal
EX-TR-ERR	outside heating roller heater error signal
FEED_FAN_4	feed fan 4 drive signal
FEED_FAN1	feed fan 1 drive signal
FEED_FAN1_ERR	feed fan 1 error detection signal
FEED_FAN2	feed fan 2 drive signal
FEED_FAN2_ERR	feed fan 2 error detection signal
FEED_FAN3	feed fan 3 drive signal
FEED_FAN3_ERR	feed fan 3 error detection signal
FEED_FAN4_ERR	feed fan 4 error detection signal
FIN_FAN	exhaust heat cooling fan 2 drive signal
FIN_FAN_LOK*	exhaust heat cooling fan 2 lock detection signal
FIRST_TRN	primary transfer bias drive signal
FIX_ENT_SNS	fixing inlet detention signal
FIX_FAN	fixing exhaust fan drive signal

Abbreviation	Signal name
FIX_FAN_LOK*	fixing exhaust fan lock detection signal
FIX_MTR_BRAKE	fixing motor stop signal
FIX_MTR_CLK	fixing motor reference signal
FIX_MTR_ID	fixing motor identification signal
FIX_MTR_LOK*	fixing motor lock detection signal
FIX_MTR_ON	fixing motor drive signal
FIX_MTR_SEL	fixing motor selection signal
FIX_WEB_REMAIN	fixing web length detection signal
FIX_WEB_SL	web solenoid drive signal
FRONT_DOOR_OPN	front cover detection signal
FSR_UNIT_CNCT*	fixing assembly present/absent detection signal
GRID_CONT	grid bias control signal
HOP_MTR_0	hopper stirring motor drive signal 1
HOP_MTR_1	hopper stirring motor drive signal 0
HV_RMT	high-voltage bias remote signal
HV_RMT	HVT 3 enable signal
IN_DELI_SNS	inside delivery detection signal
ITB_CLN_HP_SNS	ITB cleaner HP detection signal
ITB_CLN_P_MTR_A	ITB cleaner shift motor drive signal A
ITB_CLN_P_MTR_A*	ITB cleaner shift motor drive signal/A
ITB_CLN_P_MTR_B	ITB cleaner shift motor drive signal B
ITB_CLN_P_MTR_B*	ITB cleaner shift motor drive signal/B
ITOP_SNS_A	ITB HP sensor detection signal A
ITOP_SNS_B	ITB HP sensor detection signal B
JOIN_SNS	vertical path confluence detection signal
L_DECK_DTC	left deck paper detection signal
L_DECK_EXIT_SL	left deck confluence solenoid drive signal
L_DECK_FEED_SN_S	left deck pickup detection signal
L_DECK_LIFT	left deck lifter motor drive signal
L_DECK_LIMIT_SN_S	left deck limit detection signal
L_DECK_M_CLKA	left deck pickup motor drive signal A

Abbreviation	Signal name
L_DECK_M_CLKAB	left deck pickup motor drive signal AB
L_DECK_M_CLKB	left deck pickup motor drive signal B
L_DECK_M_CLKBB	left deck pickup motor drive signal BB
L_DECK_PAP_HIGH_SNS	left deck lifter detection signal
L_DECK_PAP_SNS	left deck paper detection signal
L_DECK_REMAIN_SNS0	left deck paper level detection signal A
L_DECK_REMAIN_SNS1	left deck paper level detection signal B
L_DECK_SL	left deck pickup solenoid drive signal
LDPSEL	laser power selection signal
LO_CST_FEED_SNS	cassette 4 pickup detection signal
LO_CST_LIMIT_SN_S	cassette 4 limit detention signal
LO_CST_PAP_HIGH_T_SNS	cassette 4 lifter detection signal
LO_CST_PAP_SNS	cassette 4 paper detection signal
LO_CST_REMAIN_SNS0	cassette 4 paper level detection signal A
LO_CST_REMAIN_SNS1	cassette 4 paper level detection signal B
LO_CST_SIZE0	cassette 4 paper size detection signal 0
LO_CST_SIZE1	cassette 4 paper size detection signal 1
LO_CST_SIZE2	cassette 4 paper size detection signal 2
LO_CST_SIZE3	cassette 4 paper size detection signal 3
LO_CST_SIZE4	cassette 4 paper size detection signal 4
LO_CST_SL	cassette 4 pickup solenoid drive signal
LOW_CST_LIFT	cassette 4 lifter motor drive signal
MAIN_THM_EDGE_IN	fixing sub thermistor detection signal
MAIN_THM_IN	fixing main thermistor detection signal
MAIN-HEAT-ON	fixing main heater drive signal
MAIN-TR-ERR	fixing main heater error signal
MLT_LAST_PAP_SN_S	last sheet detection signal

Abbreviation	Signal name
MLT_PAP_SNS	manual feed paper detection signal
MLT_PAP_WIDTH	manual feed paper width detection signal
MLT_SL	manual feed pickup solenoid drive signal
MLT_TRAY_OPN	manual feed unit open/closed detection signal
MODE	finisher mode switchover signal
OHP_LED0	transparency sensor (front) light emission signal
OHP_LED1	transparency sensor (rear) light emission signal
OHP_SNS0	transparency sensor (rear) light reception signal
OHP_SNS1	transparency sensor (front) light reception signal
OUT_DELI_MTR_A	outside delivery motor drive signal A
OUT_DELI_MTR_A*	outside delivery motor drive signal A*
OUT_DELI_MTR_B	outside delivery motor drive signal B
OUT_DELI_MTR_B*	outside delivery motor drive signal B*
OUT_DELI_SNS	outside delivery paper detection signal
PAP_STAGNATE_SN	left deck stationary paper detection signal
PATCH_LED_ON	patch image read sensor light emission signal
PATCH_LED_ON	patch image read sensor reference signal
PATCH_LED_REF	patch sensor shutter solenoid drive signal
PATCH_SHUT_SL	patch sensor shutter solenoid drive signal
PATCH_VOP	patch image read sensor detention signal P
PATCH_VOS	patch image read sensor detention signal S
PD_MTR_CLK	side deck clock signal 1
PKIT_FAN	controller cooling fan dire signal
PKIT_FAN_LOK*	controller cooling fan lock detection signal
POST	pre-transfer bias drive signal
POST_AC_ON	pre-transfer bias AC drive signal
POST_CLN_MTR0	pre-transfer charging wire cleaning motor drive signal 0
POST_CLN_MTR1	pre-transfer charging wire cleaning motor drive signal 1
POST_DC_ON	pre-transfer bias DC drive signal
POSTCLK_A1	pre-transfer bias reference signal A

Abbreviation	Signal name
POSTCLK_B1	pre-transfer bias reference signal B
POSTCONT	pre-transfer bias control signal
PRE_REGI_MTR_A	manual feed pre-registration motor drive signal A
PRE_REGI_MTR_A*	manual feed pre-registration motor drive signal A*
PRE_REGI_MTR_B	manual feed pre-registration motor drive signal B
PRE_REGI_MTR_B*	manual feed pre-registration motor drive signal B*
PRE_REGI_SNS	pre-registration paper detection signal
PRESS-HEAT-ON	pressure heater drive signal
PRESS-TR-ERR	pressure heater error signal
PRIM_CLN_MTR0	primary charging wire cleaning motor drive signal 0
PRIM_CLN_MTR1	primary charging wire cleaning motor drive signal 1
PRIM_CONT	primary charging bias control signal
PRIM_EX_FAN	primary charging exhaust fan drive signal
PRIM_EX_FAN_LOK*	primary charging exhaust fan lock signal
PRIM_IN_FAN	primary charging suction fan drive signal
PRIM_IN_FAN_LOK*	primary charging suction fan lock detection
PRIM_ON	primary charging bias drive signal
PRIMARY	primary charging bias drive signal
PRS_THM_EDGE_IN	pressure sub thermistor detection signal
PRS_THM_IN	pressure main thermistor detection signal
R_DECK_DTC	right deck paper detection signal
R_DECK_FEED_SNSS	right deck pickup detection signal
R_DECK_LIFT	right deck lifter motor drive signal
R_DECK_LIMIT_SNSS	right deck limit detection signal
R_DECK_M_CLKA	right deck pickup motor drive signal A
R_DECK_M_CLKAB	right deck pickup motor drive signal AB
R_DECK_M_CLKB	right deck pickup motor drive signal B
R_DECK_M_CLKBB	right deck pickup motor drive signal BB
R_DECK_PAP_HIHT_SNS	right deck lifter detection signal

Abbreviation	Signal name
R_DECK_PAP_SNS	right deck paper detection signal
R_DECK_PULL_M_CLKA	right deck pull-off motor drive signal A
R_DECK_PULL_M_CLKAB	right deck pull-off motor drive signal AB
R_DECK_PULL_M_CLKB	right deck pull-off motor drive signal B
R_DECK_PULL_M_CLKBB	right deck pull-off motor drive signal BB
R_DECK_REMAIN_SNS0	right deck paper level detection signal B
R_DECK_REMAIN_SNS1	right deck paper level detection signal A
R_DECK_SL	right deck pickup solenoid drive signal
R_LOW_DOOR_OP_N	lower right cover open/closed detection signal
RE_FEED_SNS	duplexing confluence detection signal
REAL_BD*	BD detection signal
REGI_DRIVE_M_CL_K_A	registration motor drive signal A
REGI_DRIVE_M_CL_K_AB	registration motor drive signal AB
REGI_DRIVE_M_CL_K_B	registration motor drive signal B
REGI_DRIVE_M_CL_K_BB	registration motor drive signal BB
RELAY_ON	relay drive signal
REV_ALIENATE_SL	reversal interval solenoid drive signal
REV_SNS	reversal detection signal
REV_TATE_PAS_NS	reversal vertical path detention signal
ROT_MTR_A	developing rotary motor drive signal A
ROT_MTR_A*	developing rotary motor drive signal A*
ROT_MTR_B	developing rotary motor drive signal A*
ROT_MTR_B*	developing rotary motor drive signal B*
ROTARY_HP_SNS	developing rotary HP detection signal
ROTARY_SL	developing rotary fixing solenoid drive signal

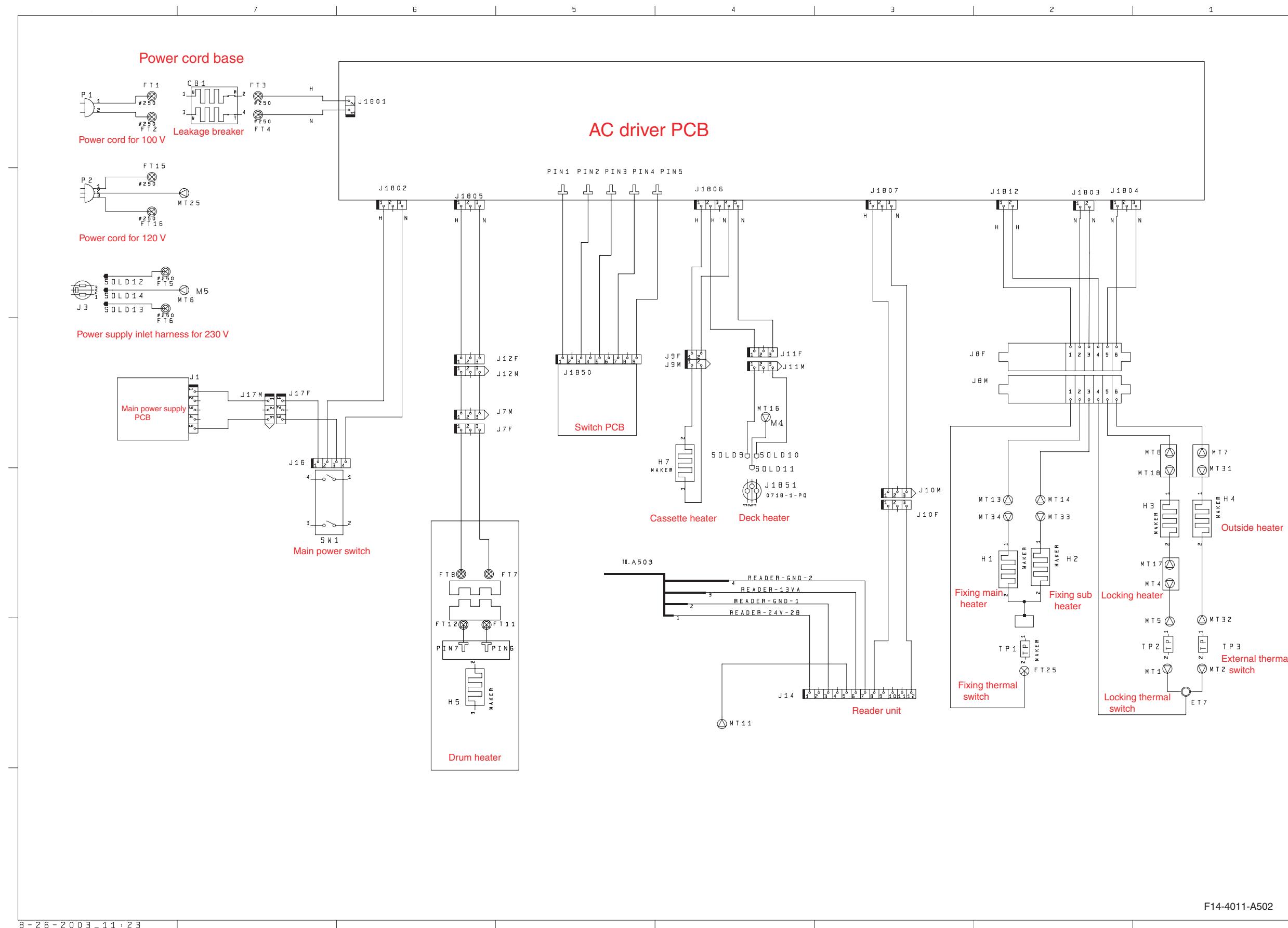
Abbreviation	Signal name
ROTARY_SL_SNS	developing rotary fixing detection signal
RSET	finisher reset signal
SCN_ACC*	scanner motor acceleration signal
SCN_DEC*	scanner motor deceleration signal
SCN_FG_IN*	scanner motor speed detection signal
SEC_ROLL_PRESS_M_A	secondary transfer roller shift motor drive signal A
SEC_ROLL_PRESS_M_A*	secondary roller shift motor drive signal A*
SEC_ROLL_PRESS_M_B	secondary transfer roller shift motor drive signal B
SEC_ROLL_PRESS_M_B*	secondary transfer roller shift motor drive signal B*
SEC_TRNS_HP_SNS	secondary transfer roller HP detection signal
SECOND_TR	secondary transfer bias drive signal
SFTTRAY_CCW	shift tray motor drive signal 0
SFTTRAY_CNCT	shift tray connection detection signal
SFTTRAY_CW	shift tray motor drive signal 1
SFTTRAY_FULL_ON	shift tray full detection signal 1
SFTTRAY_L_HP	shift tray left HP detection signal
SFTTRAY_PAP_FULL	shift tray full detection signal 0
SFTTRAY_PAP_SNS	shift tray paper detection signal
SFTTRAY_R_HP	shift tray right HP detector signal
STPC_RXD	finisher communication signal 0
STPC_TXD	finisher communication signal 1
SUB_HOP_REMAIN	hopper toner level detection signal
SUB-HEAT-ON	fixing sub heater drive signal
SUB-TR-ERR	fixing sub heater error signal
TR_REV_BIAS	secondary transfer reversal bias drive signal
TR1_CRT_SEL	primary transfer current selection signal
TR1_ON	primary transfer bias drive signal
TR1CONT	primary transfer bias control signal
TR1CONTN	primary transfer reverse bias control signal

Abbreviation	Signal name
TR1CRTCONT	primary transfer current control signal
TR1ELM_ON	primary transfer static eliminator bias drive signal
TR1ELM_TRN	primary transfer static eliminator bias drive signal
TR1ELMCONT	primary transfer static eliminator bias control signal
TR1RVSEL	primary transfer reverse bias selection signal
TRNS1_DC	primary transfer DC bias drive signal
UP_CST_FEED_SL	cassettes 3 pickup solenoid drive signal
UP_CST_FEED_SNS	cassette 3 pickup solenoid drive signal
UP_CST_LIFT	cassette 3 lifter motor drive signal
UP_CST_LIMIT_SN S	cassette 3 limit detection signal
UP_CST_PAP_HIGH T_SNS5	cassette 3 lifter detection signal
UP_CST_PAP_SNS	cassette 3 paper detection signal
UP_CST_REMAIN_S NS0	cassette 3 paper level detection signal A
UP_CST_REMAIN_S NS1	cassette 3 paper level detection signal B
UP_CST_SIZE0	cassette 3 paper size detection signal 0
UP_CST_SIZE1	cassette 3 paper size detection signal 1
UP_CST_SIZE2	cassette 3 paper size detection signal 2
UP_CST_SIZE3	cassette 3 paper size detection signal 3
UP_CST_SIZE4	cassette 3 paper size detection signal 4
V_PASS_LOW_M_C LKA	vertical path motor drive signal A
V_PASS_LOW_M_C LKAB	vertical path motor drive signal AB
V_PASS_LOW_M_C LKB	vertical path motor drive signal B
V_PASS_LOW_M_C LKBB	vertical path motor drive signal BB
VDO	video signal 0
VDO*	video signal 1
VPASS_SNS_0	vertical path 0 detection signal
VPASS_SNS1	vertical path 1 paper detection signal
VPASS_SNS2	vertical path 2 paper detection signal

Abbreviation	Signal name
VPASS_SNS3	vertical path 3 paper detection signal
VPASS_SNS4	vertical path 4 paper detection signal
WASTE_TNR_ERRO	waste toner screw lock detection signal
YOKO_REGI_CLK_A	laser scanner motor drive signal A
YOKO_REGI_CLK_A*	laser scanner motor drive signal A*
YOKO_REGI_CLK_B	laser scanner motor drive signal B
YOKO_REGI_CLK_B*	laser scanner motor drive signal B*
YOKO_REGI_SNS	horizontal registration detection signal
ZERO_CROSS	zero-cross detection signal

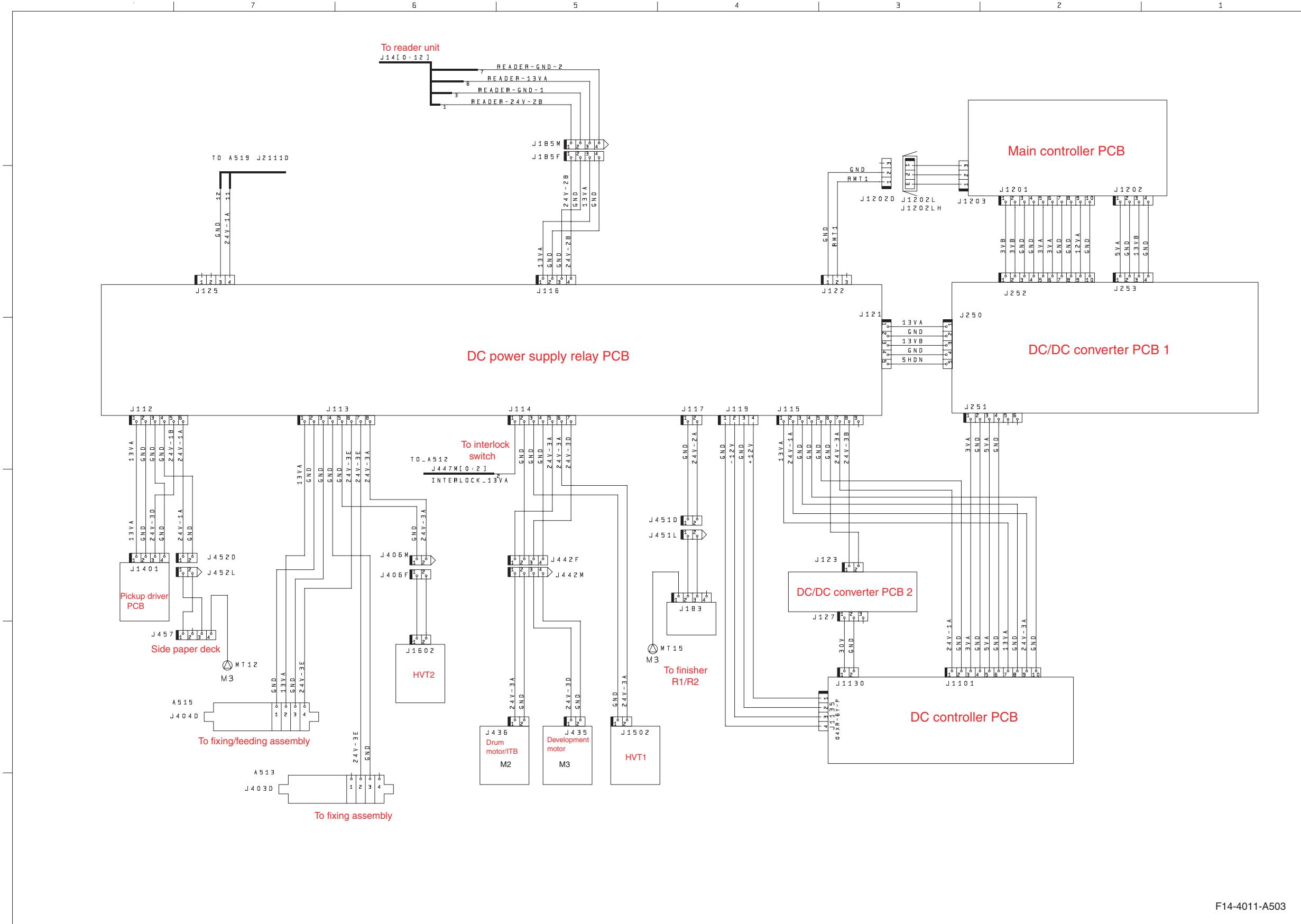
General Circuit Diagram

General Circuit Diagram 1 (Printer)

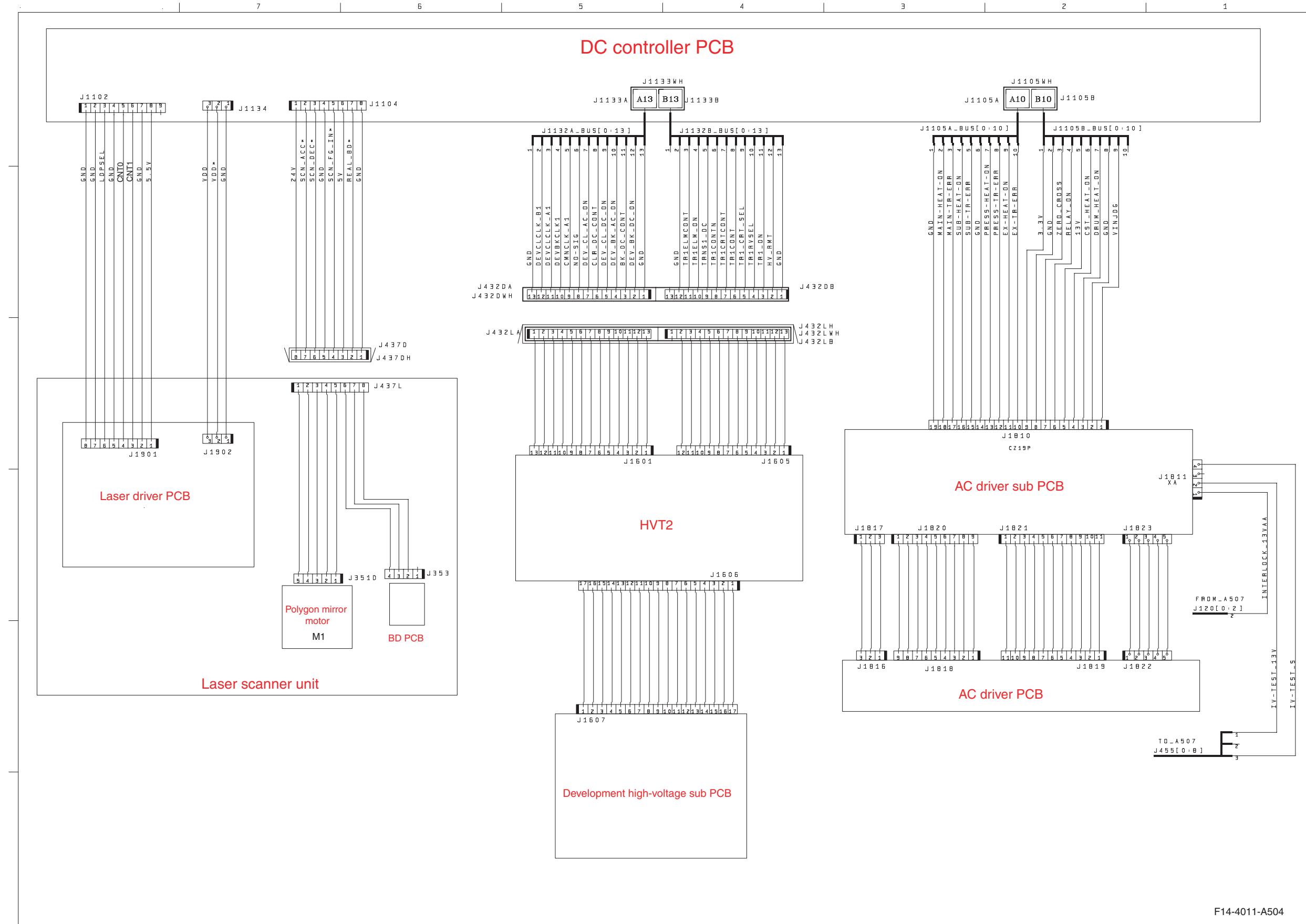


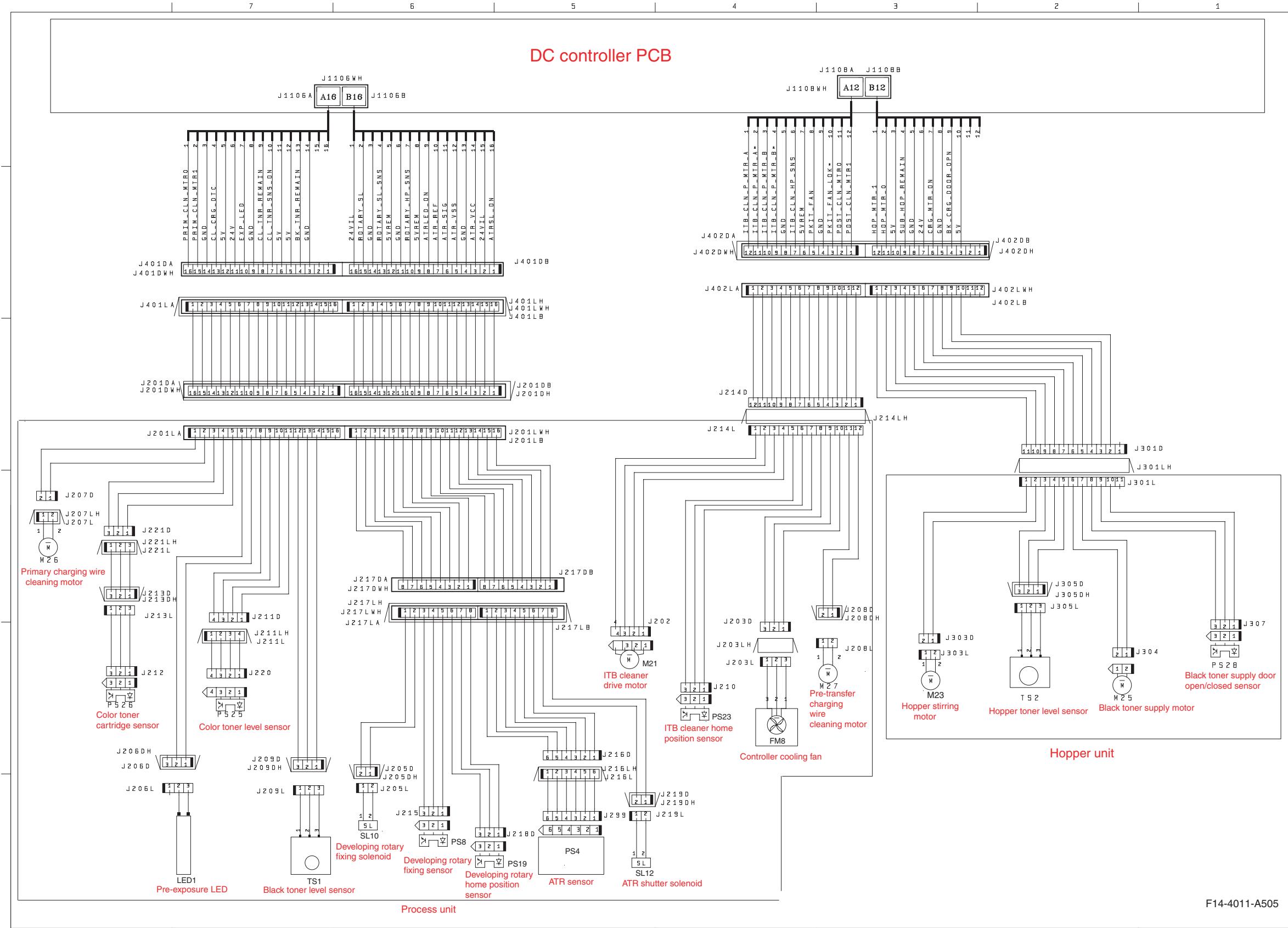
F-2-1

General Circuit Diagram 2 (Printer)

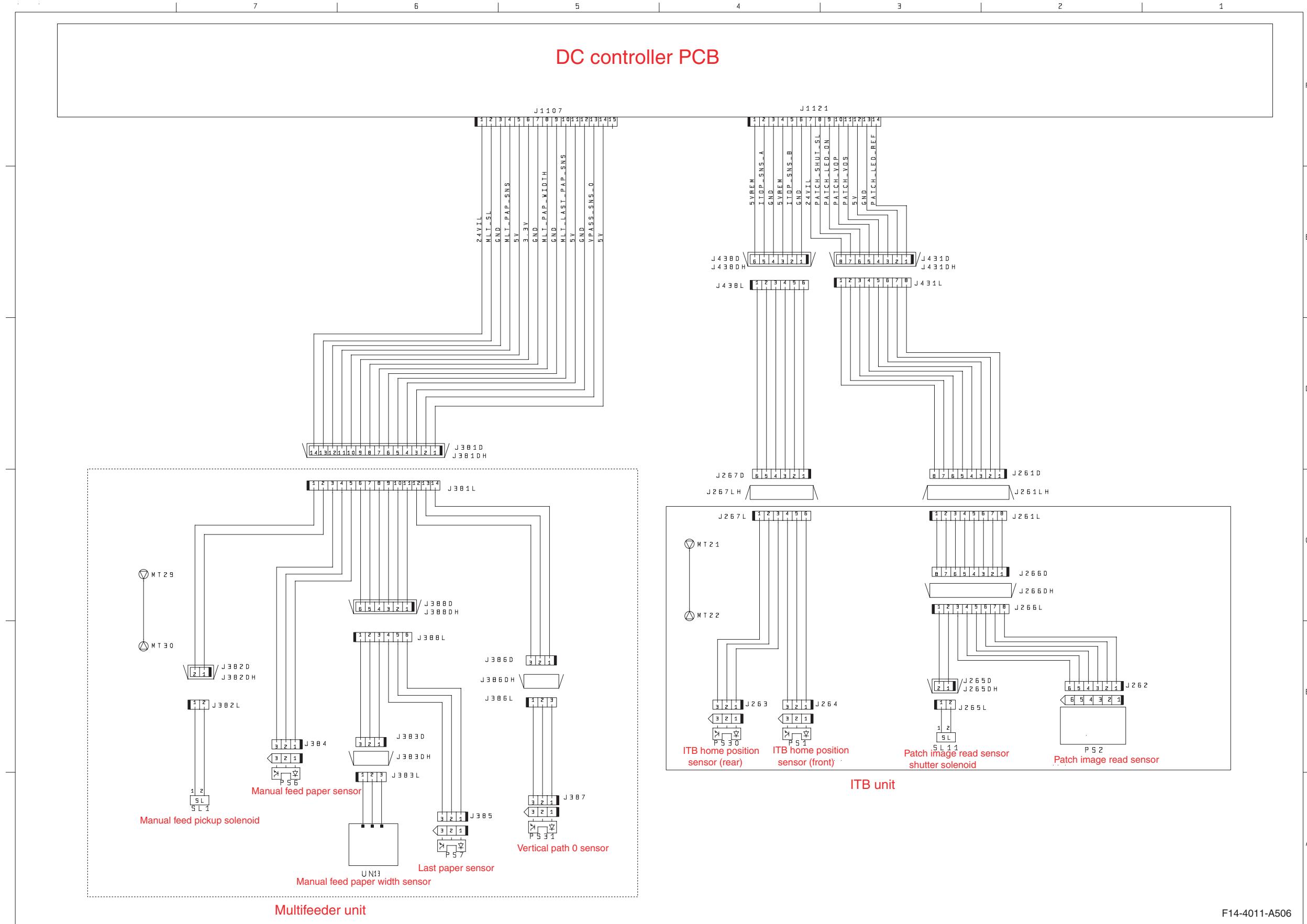


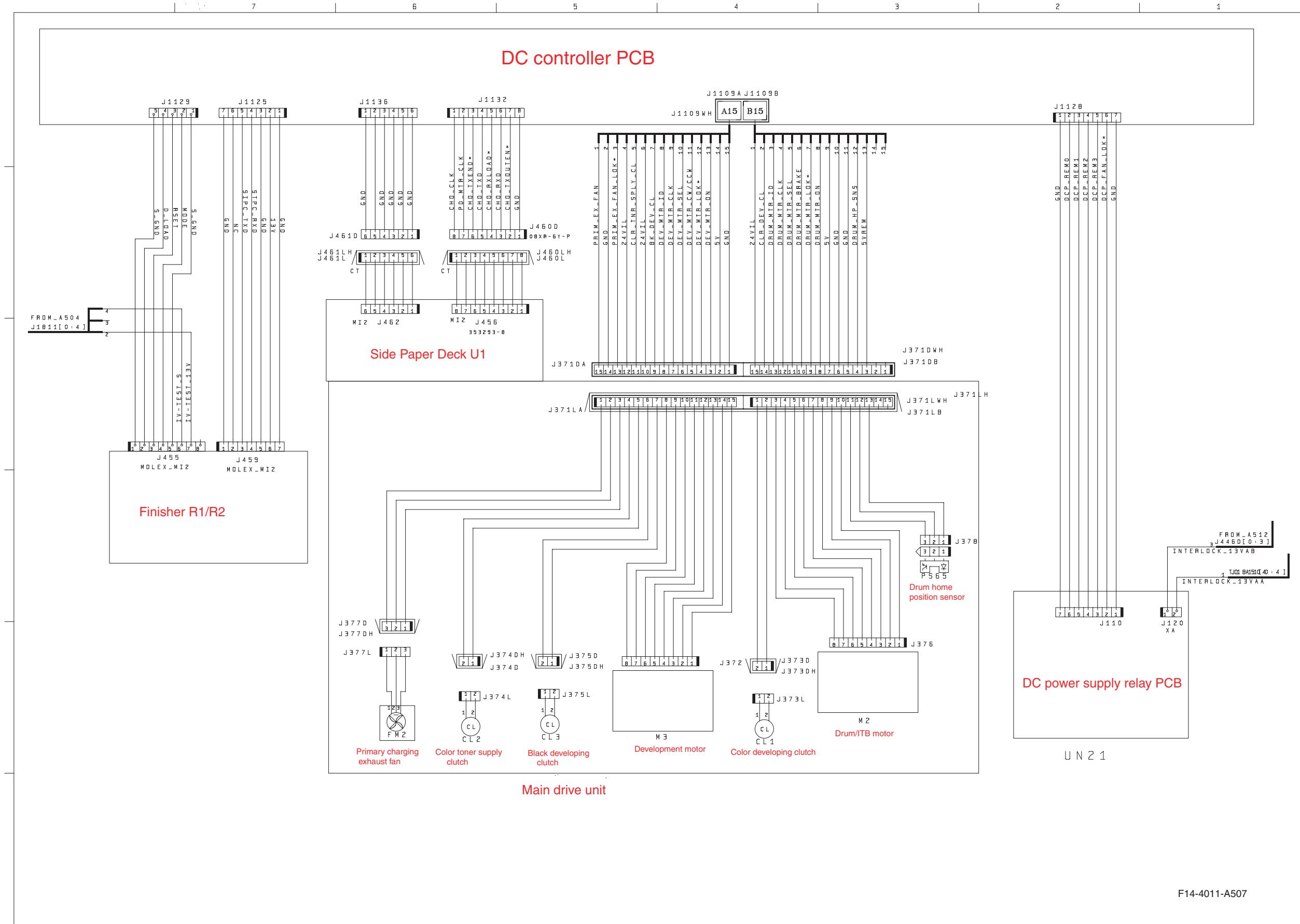
F-2-2

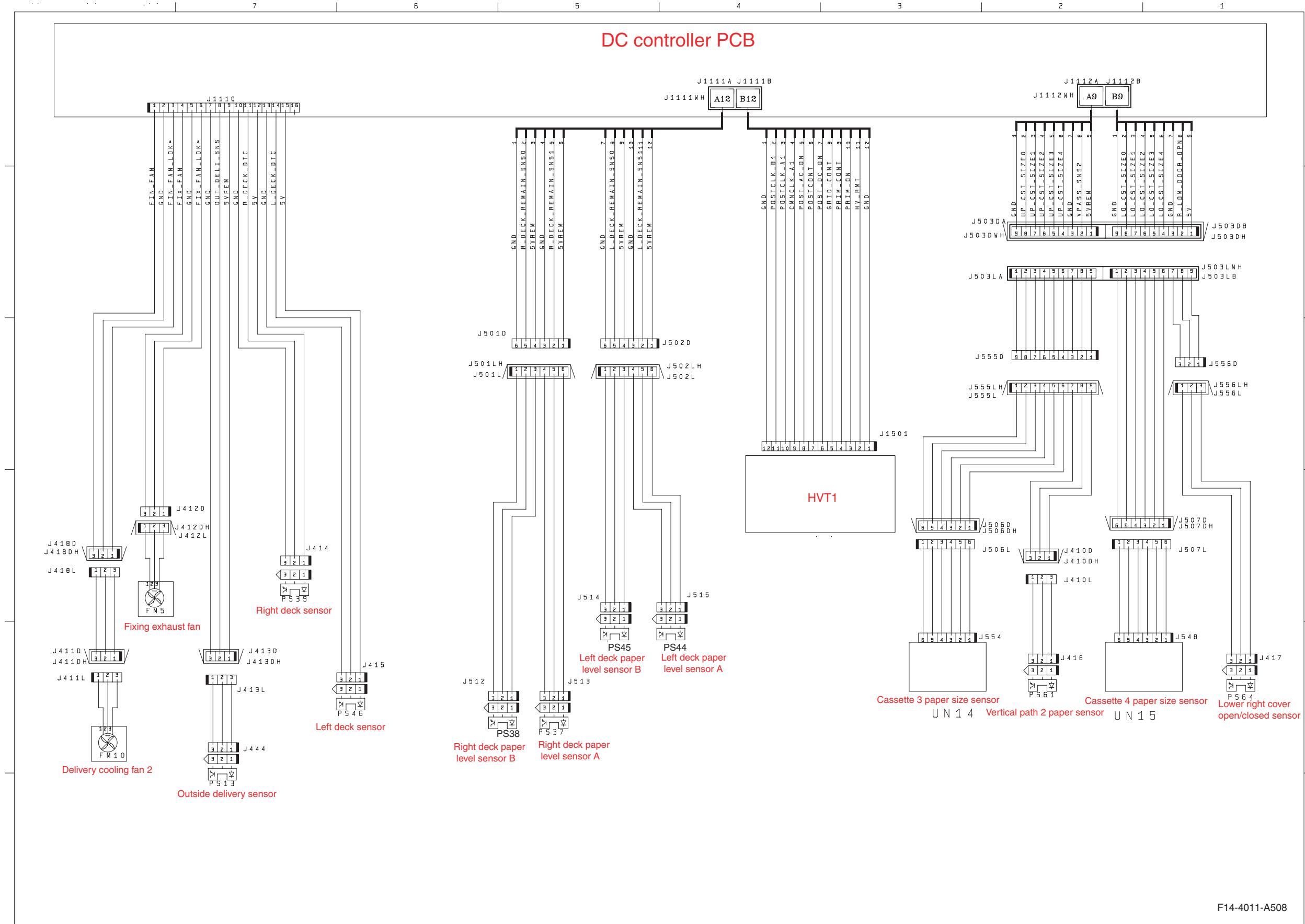


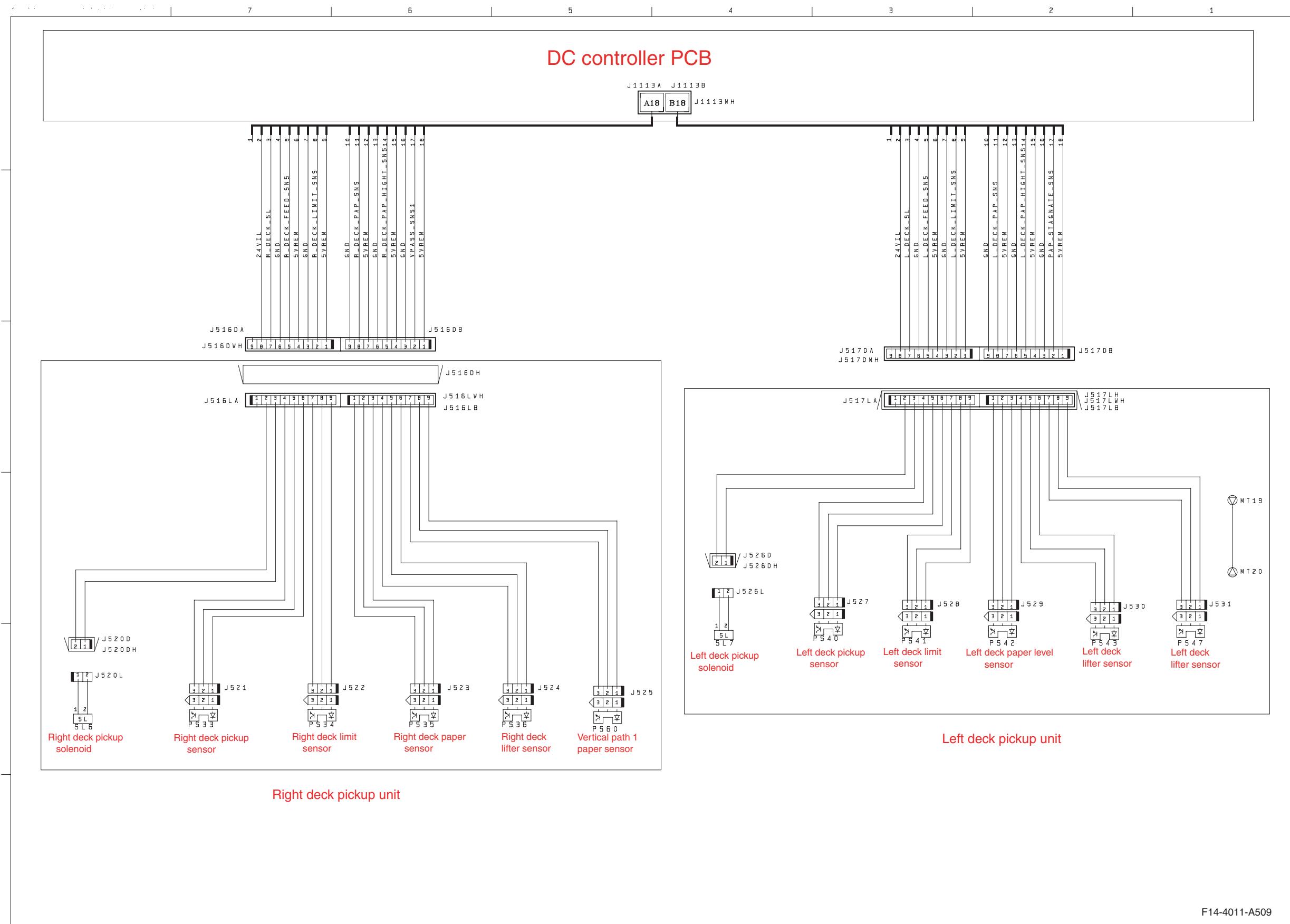


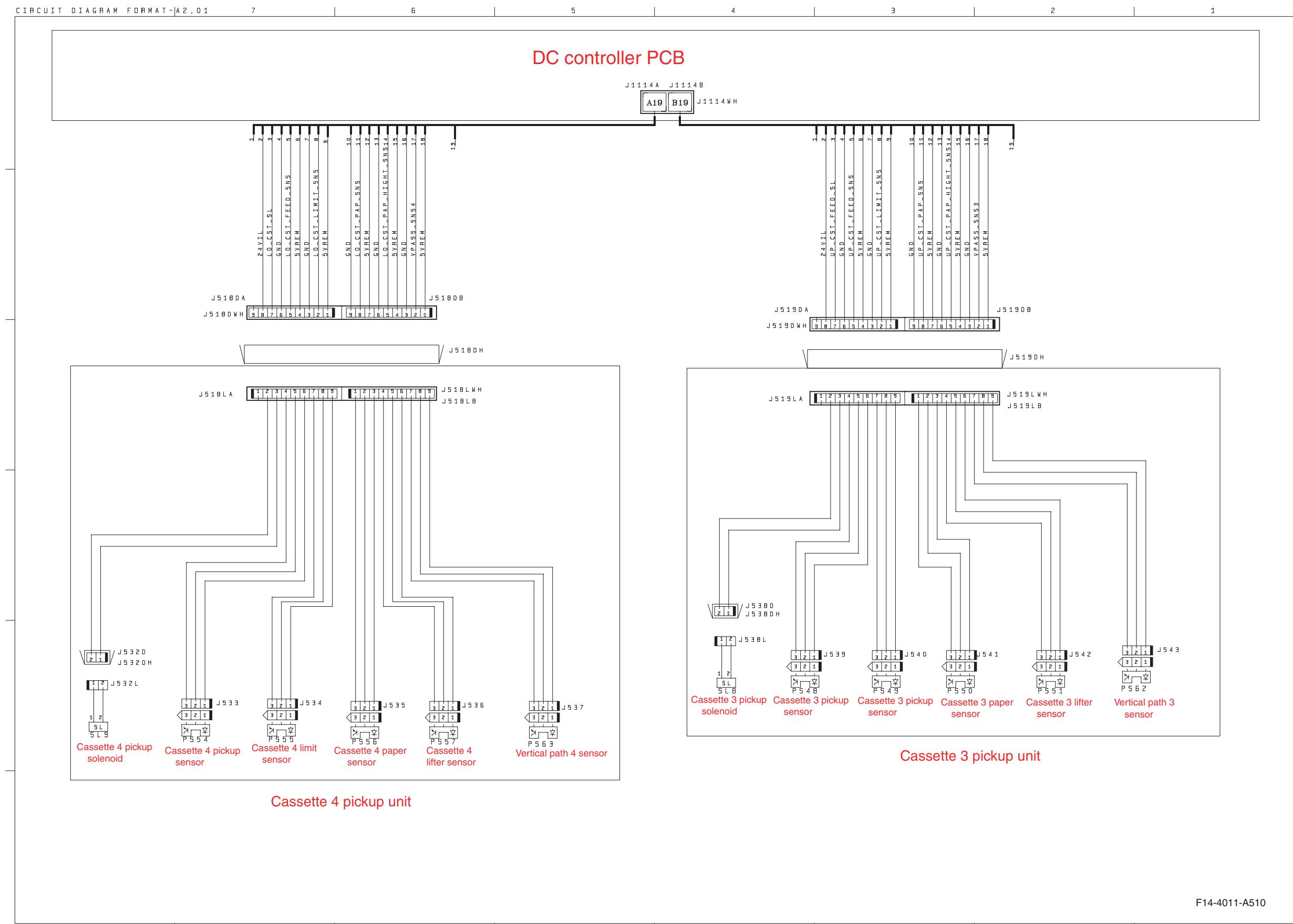
F-2-4

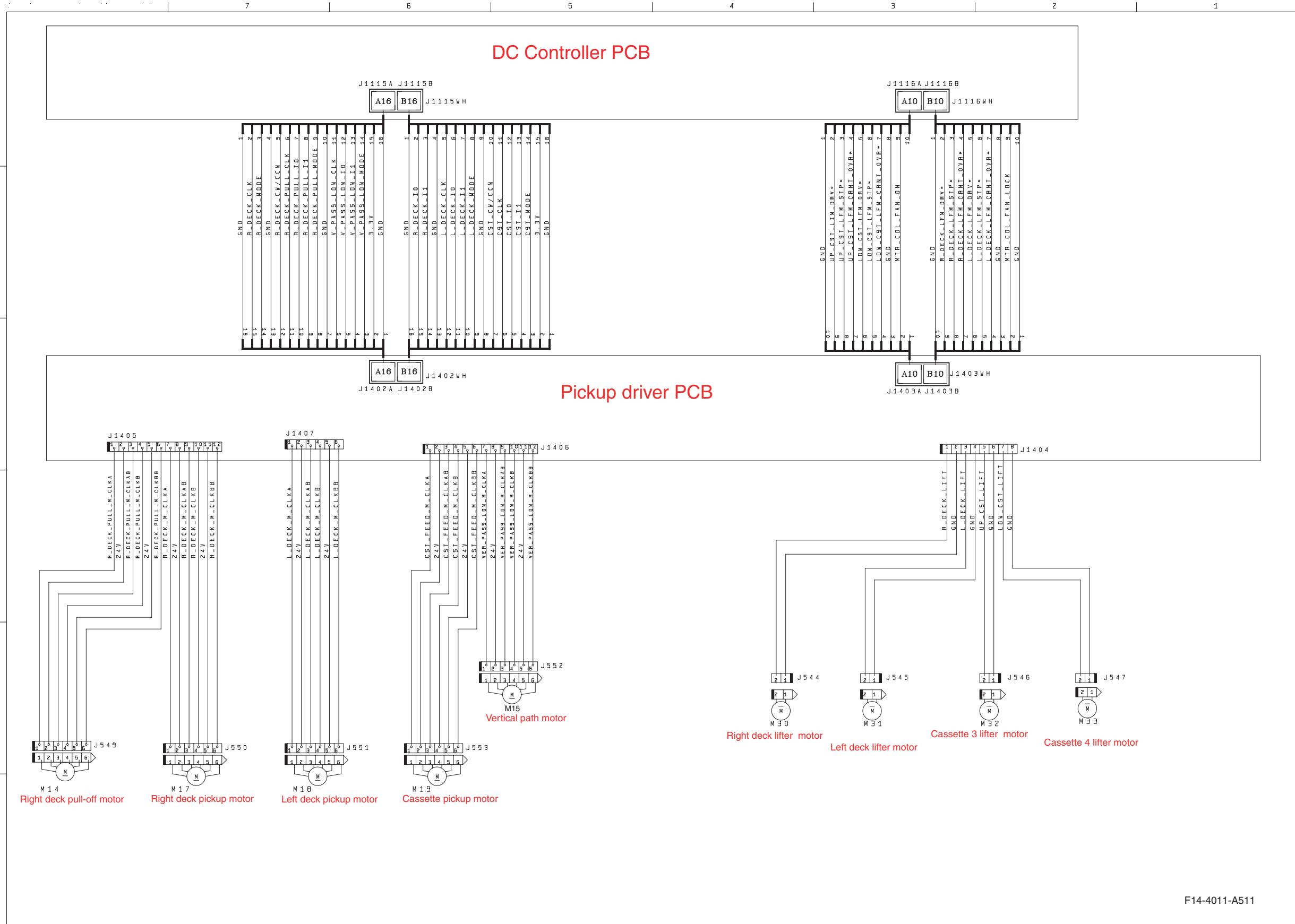




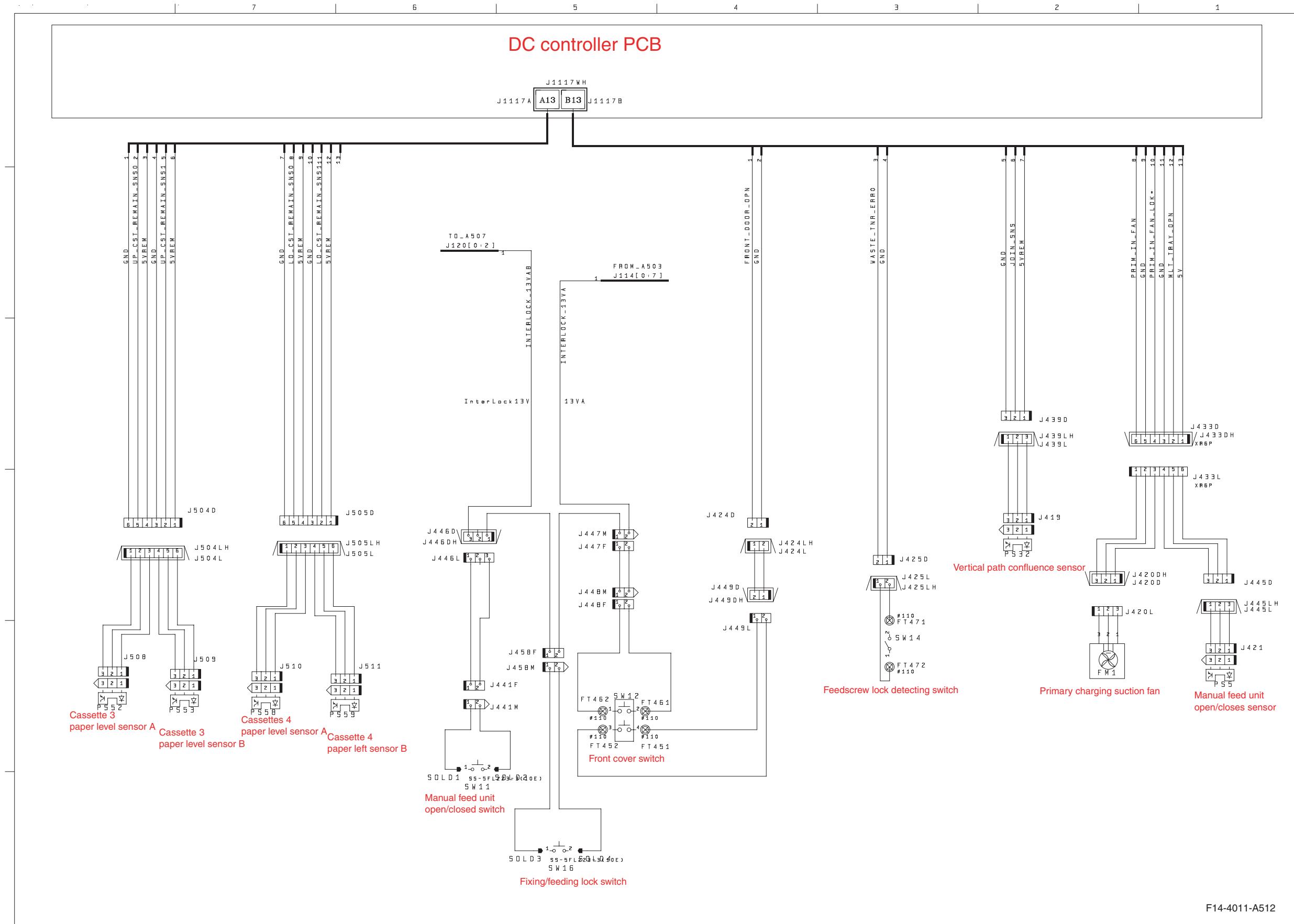


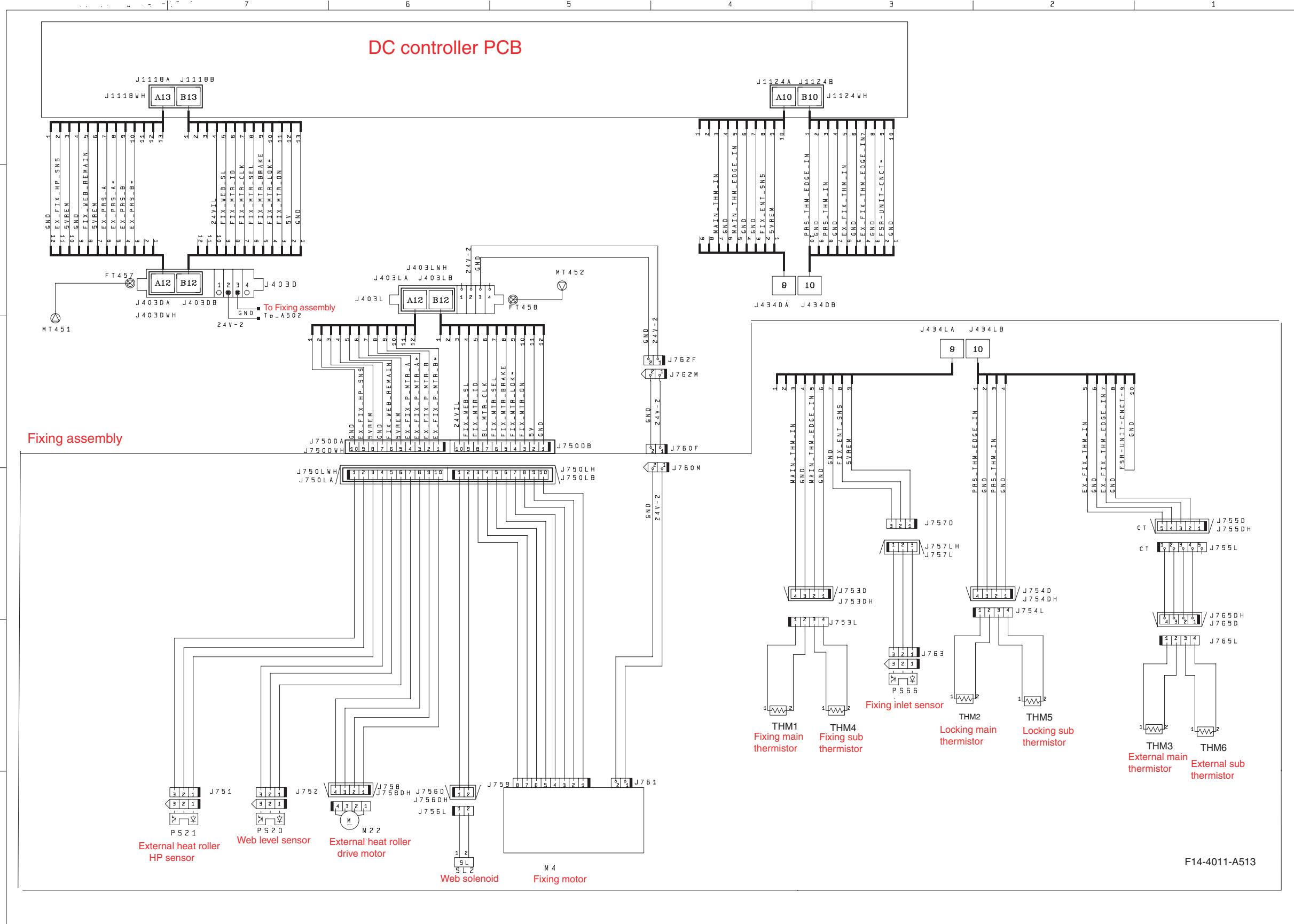


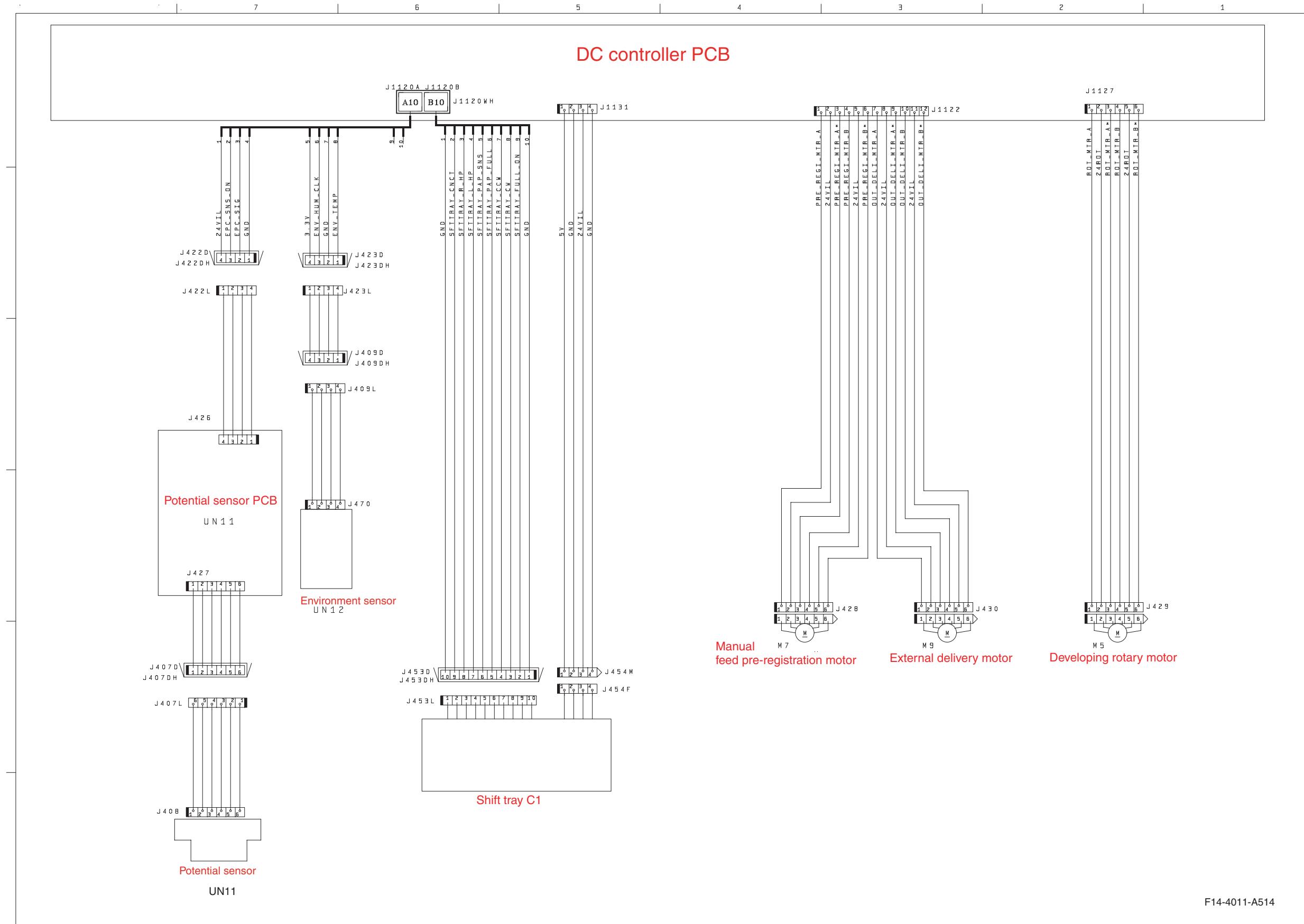




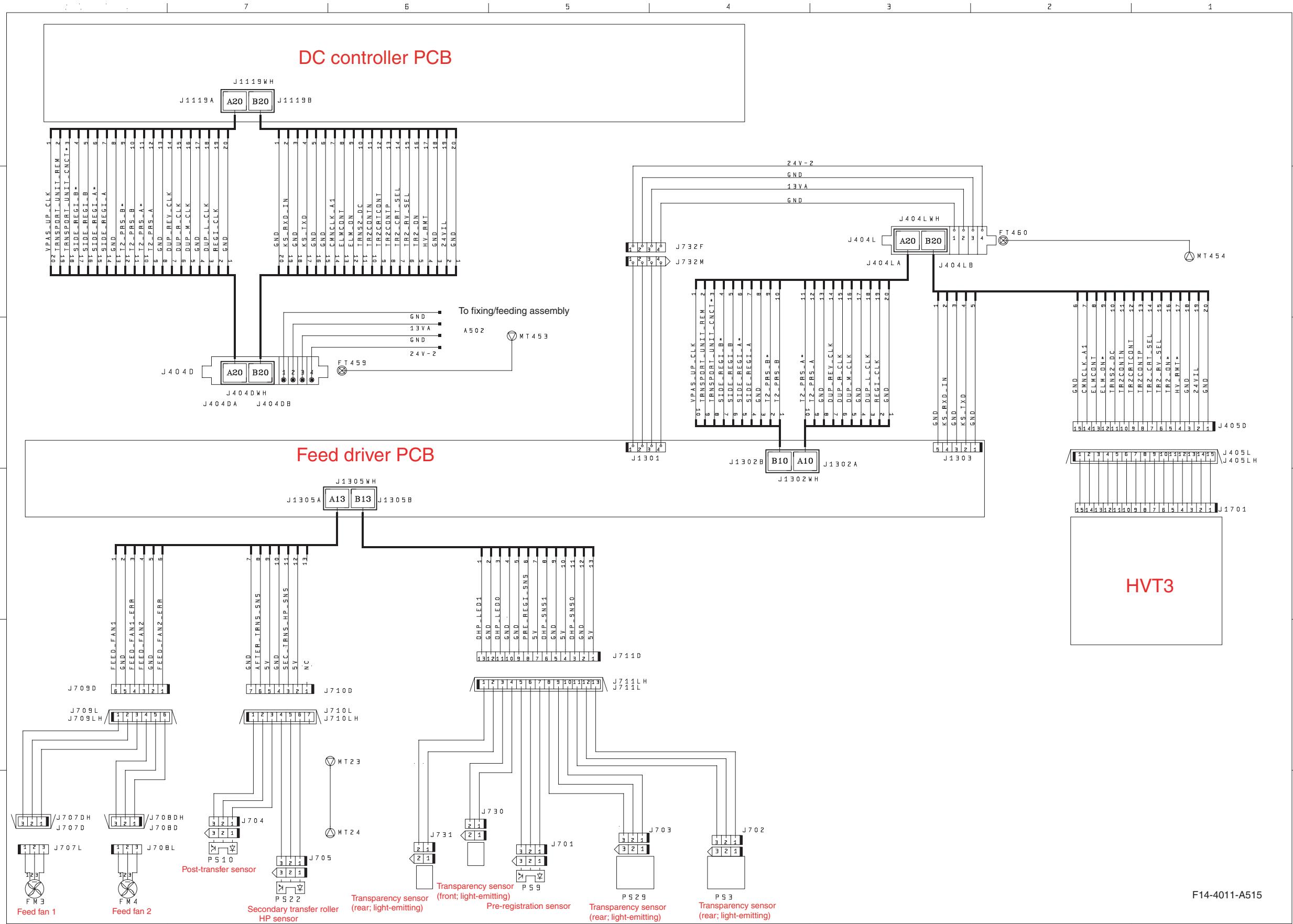
General Circuit Diagram 11 (Printer)



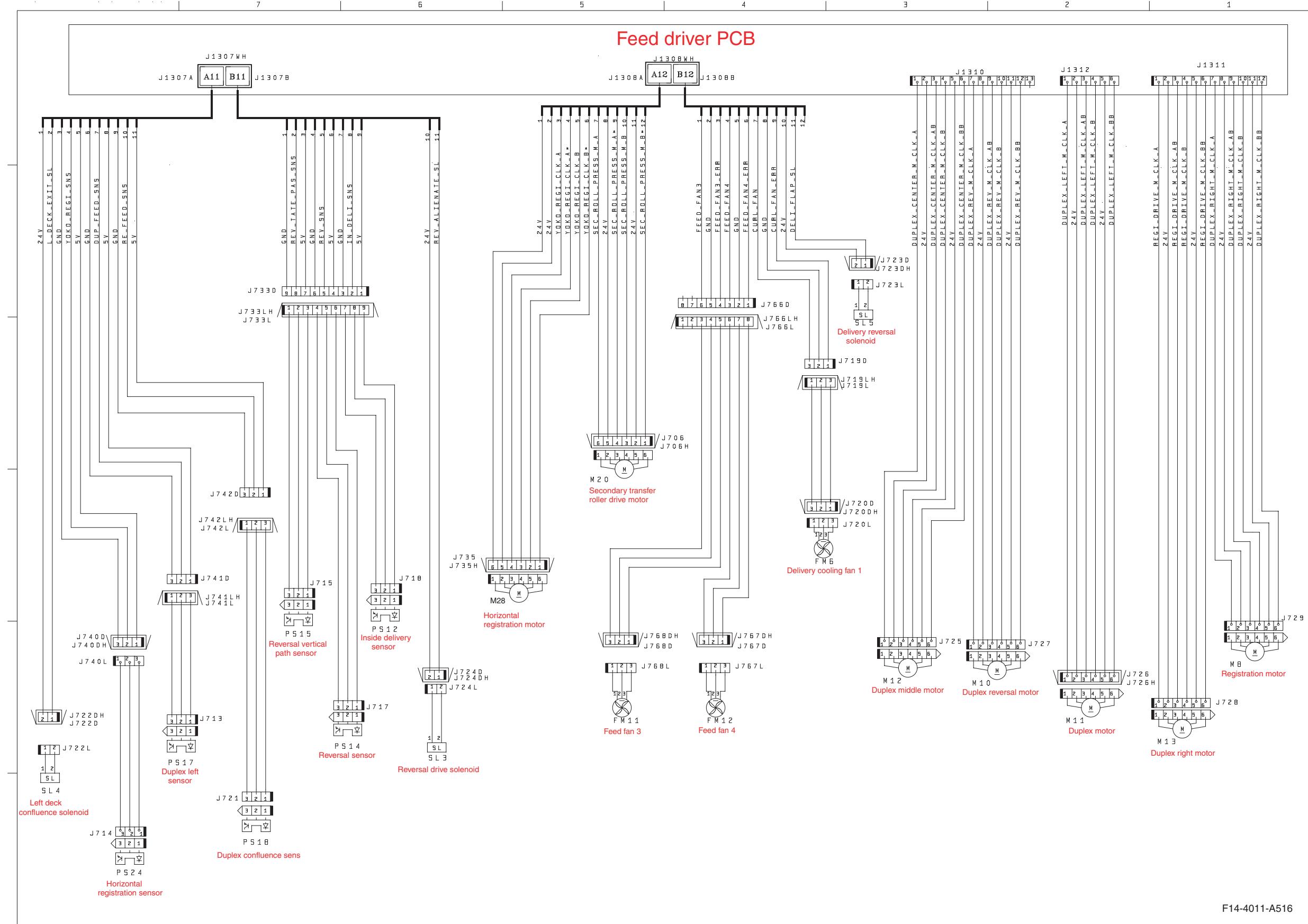




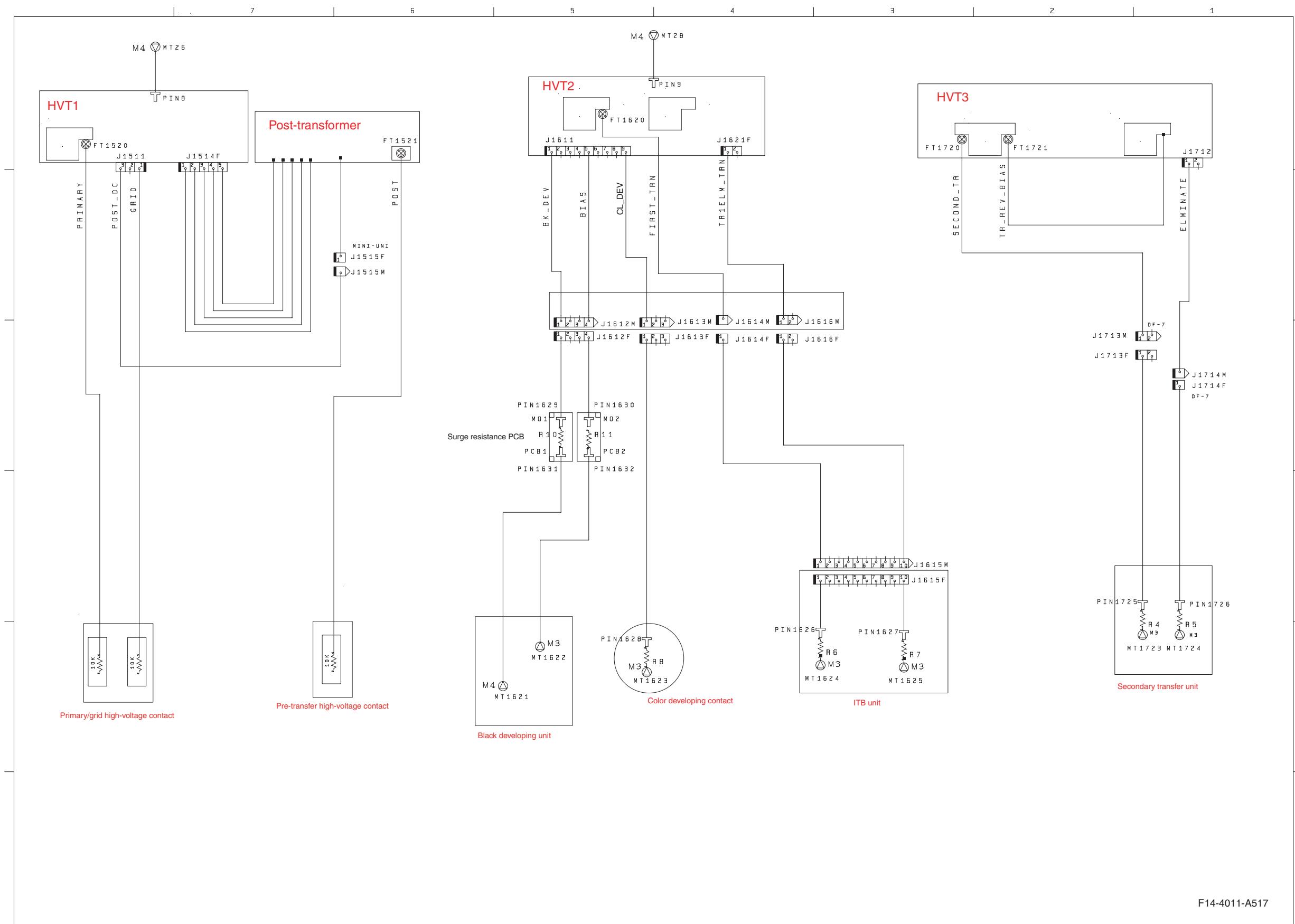
General Circuit Diagram 14 (Printer)



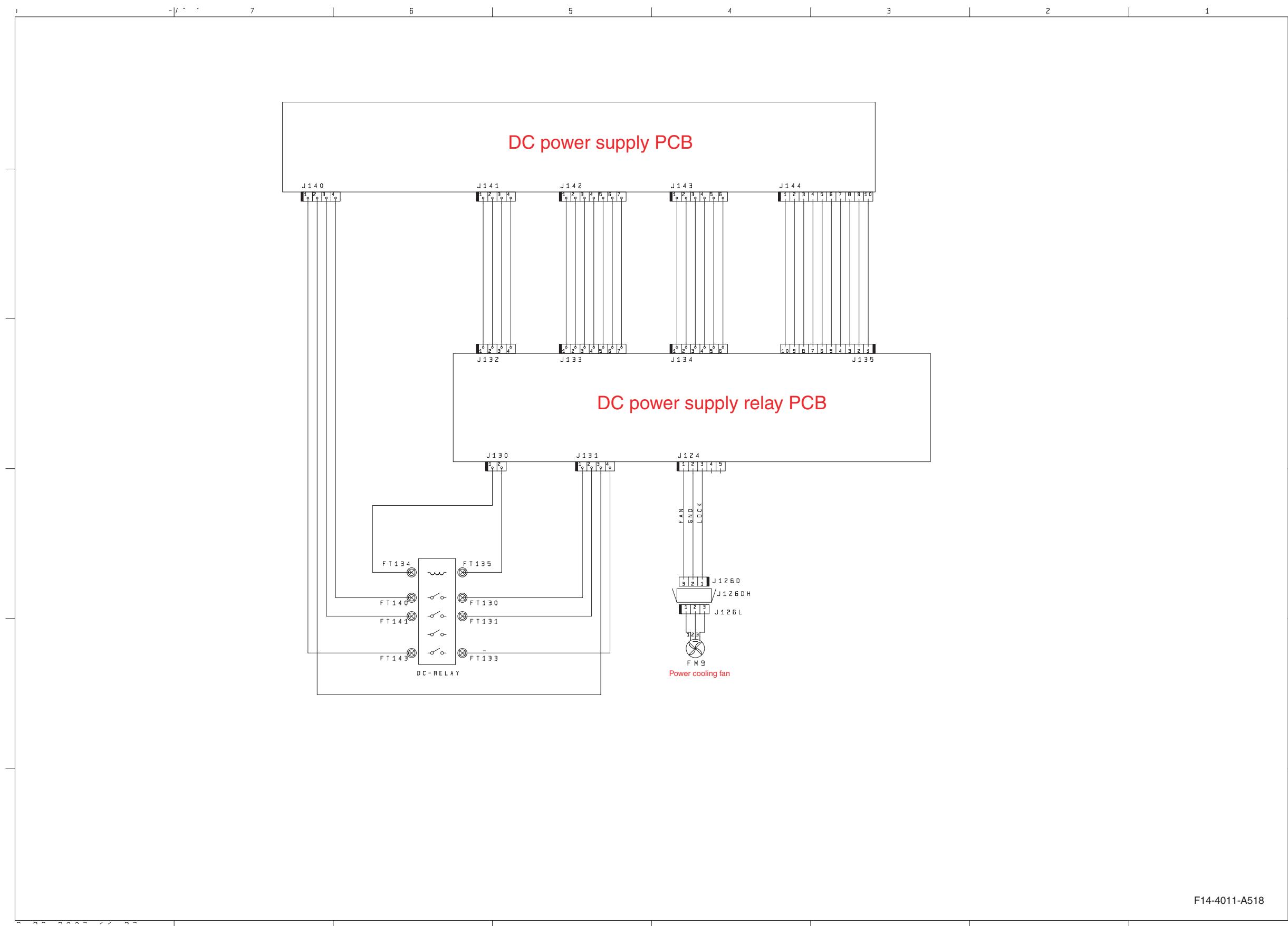
F-2-14



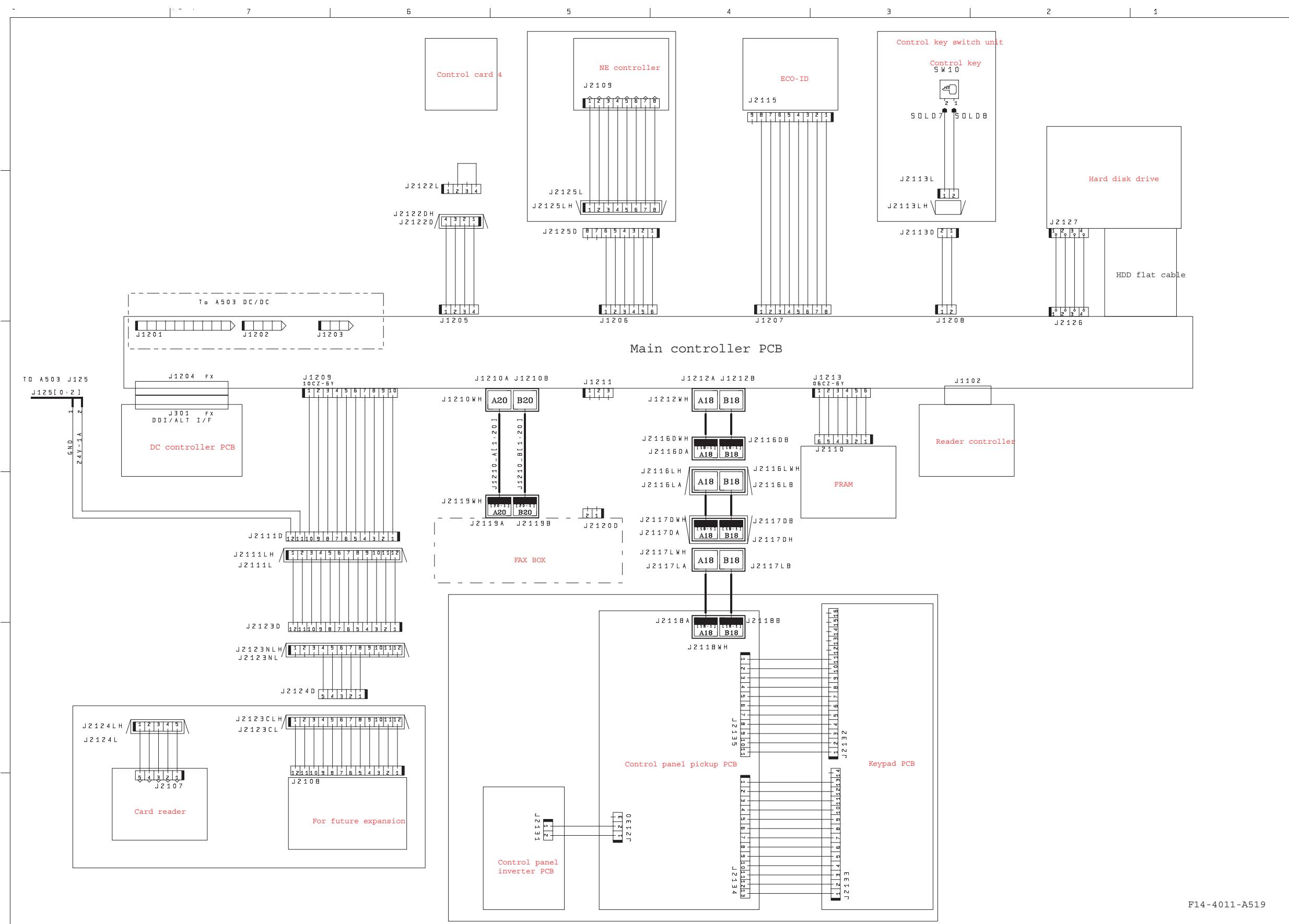
General Circuit Diagram 16 (Printer)



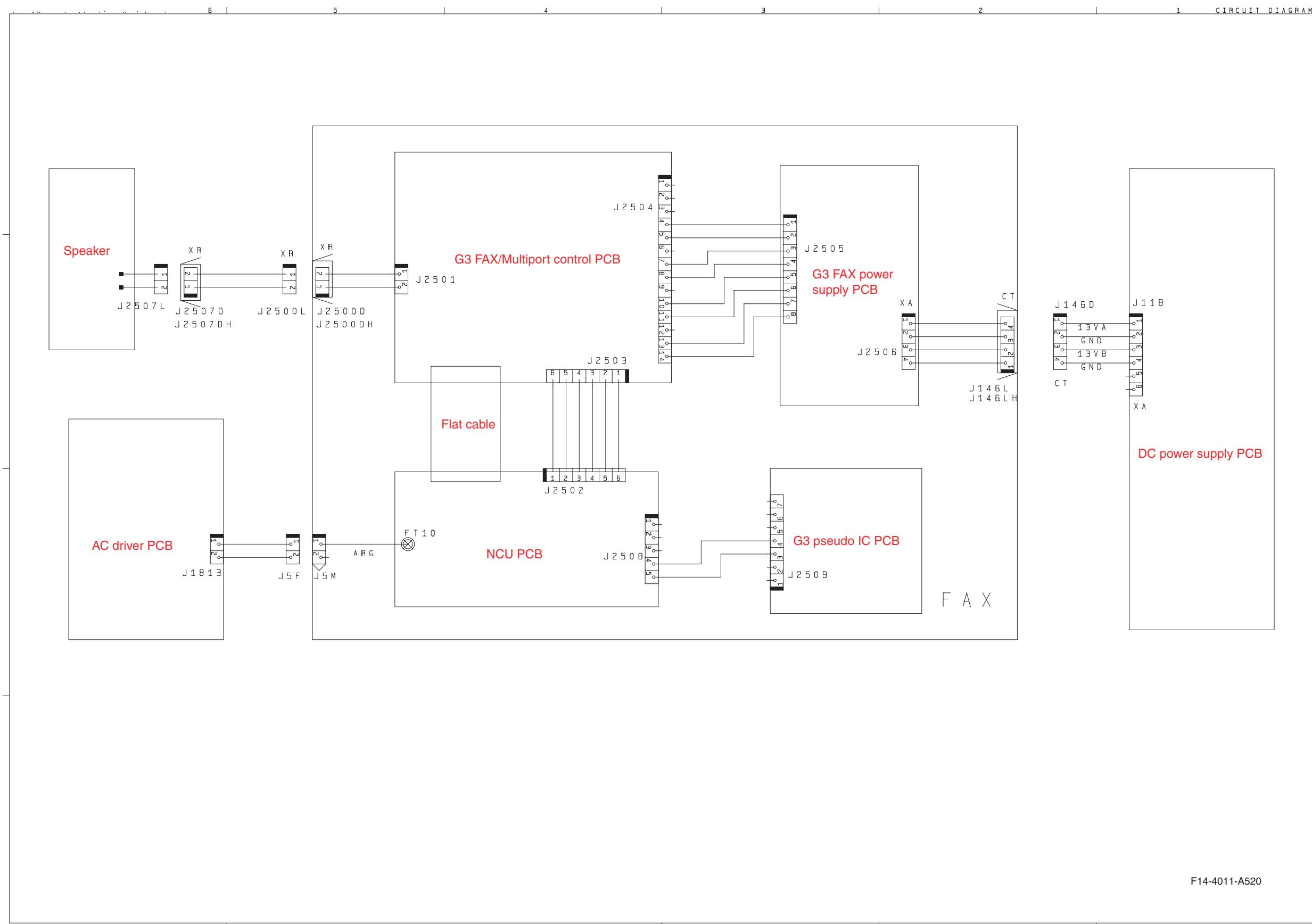
F-2-16



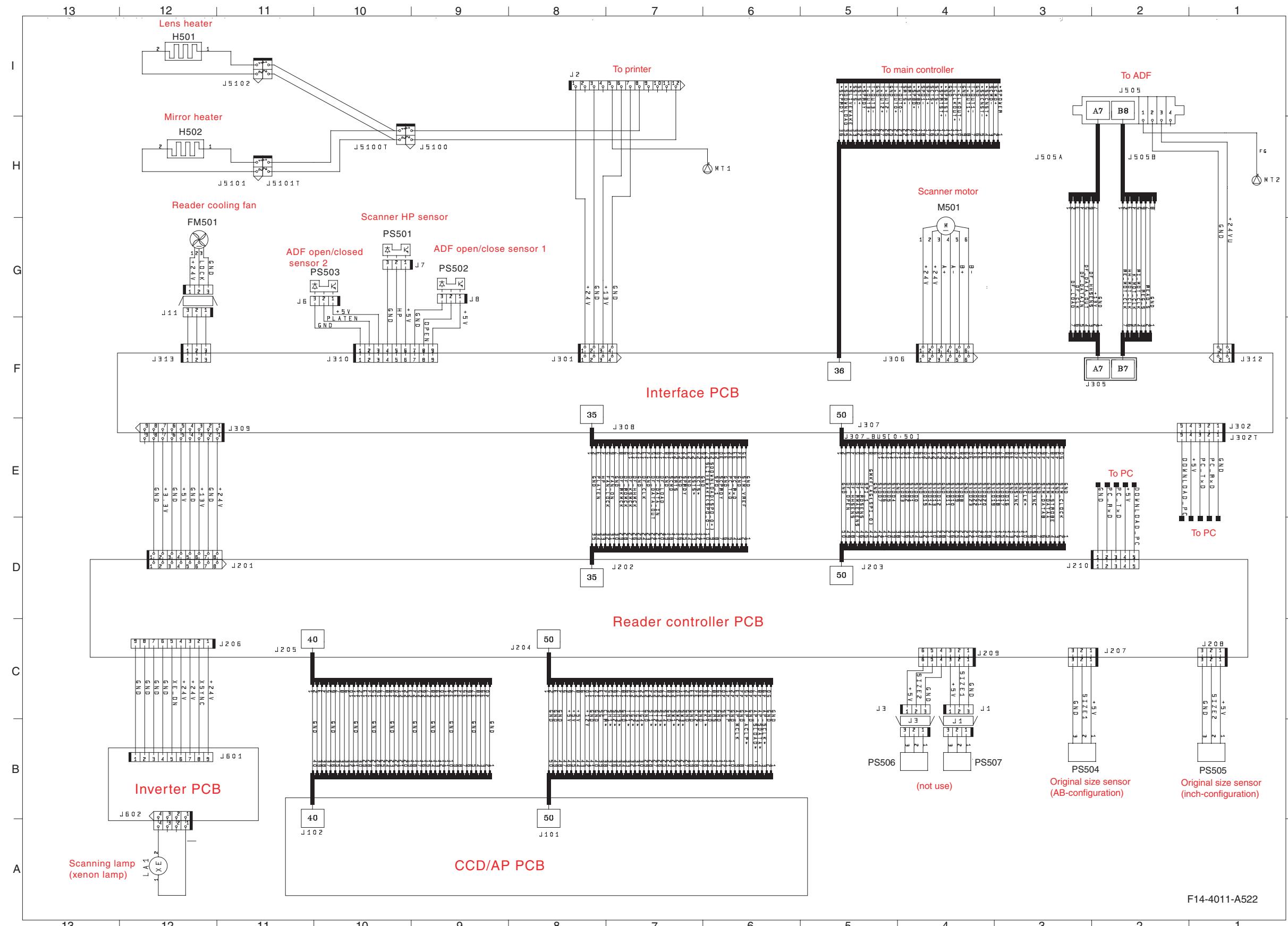
General Circuit Diagram 18 (Printer)



F-2-18



General Circuit Diagram 20 (Reader)



Mar 17 2004

Canon

