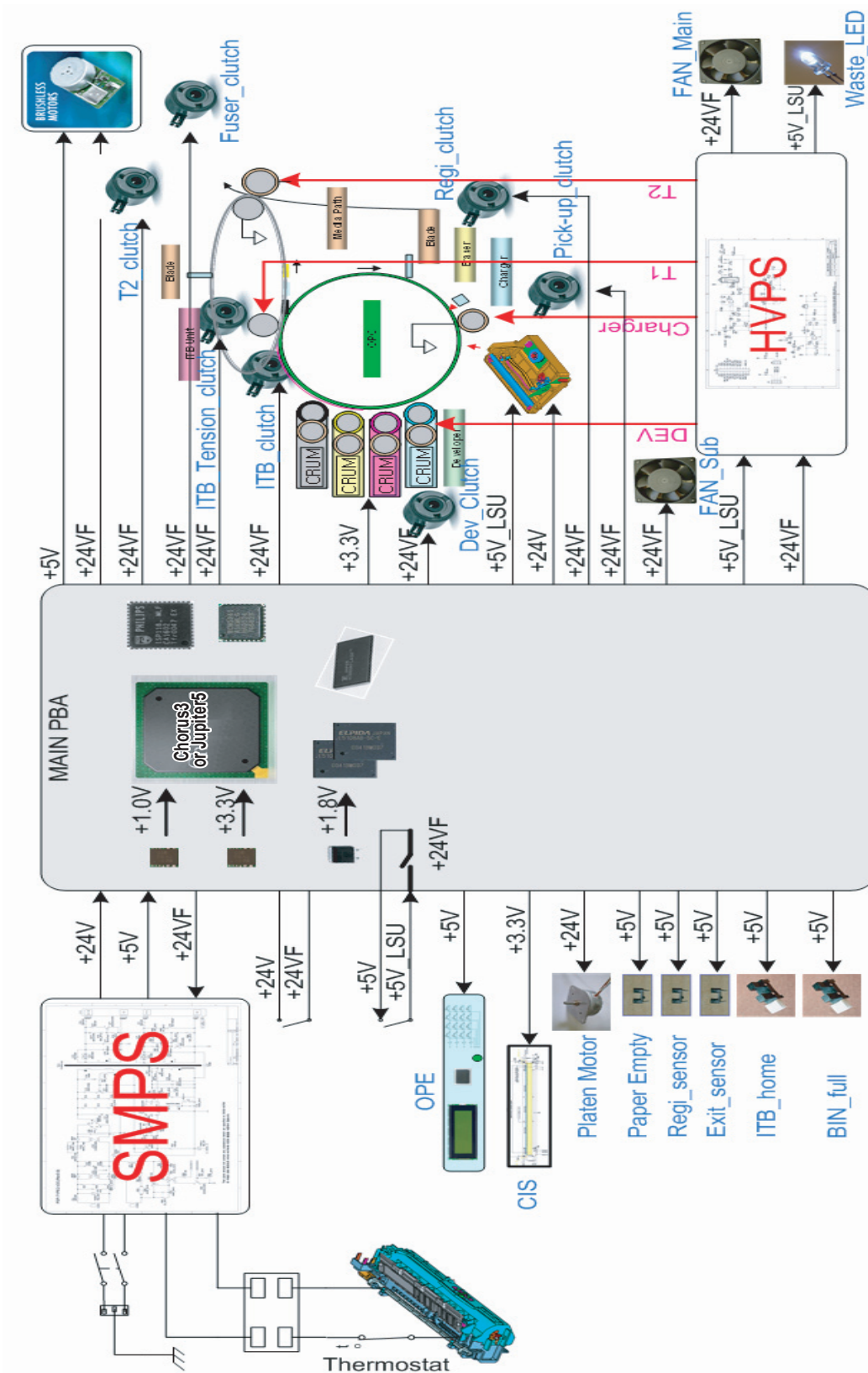
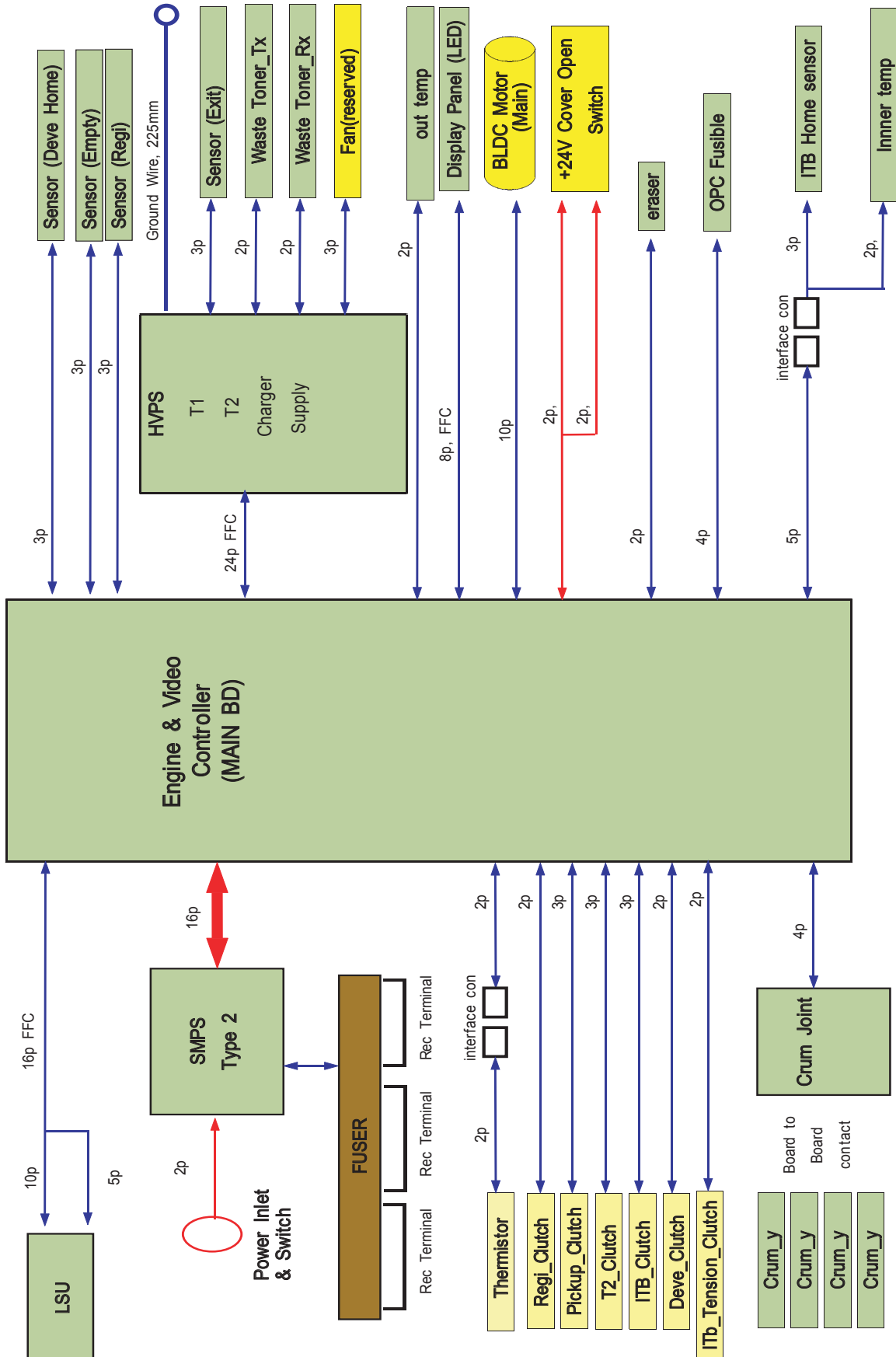


# 5. System Diagram

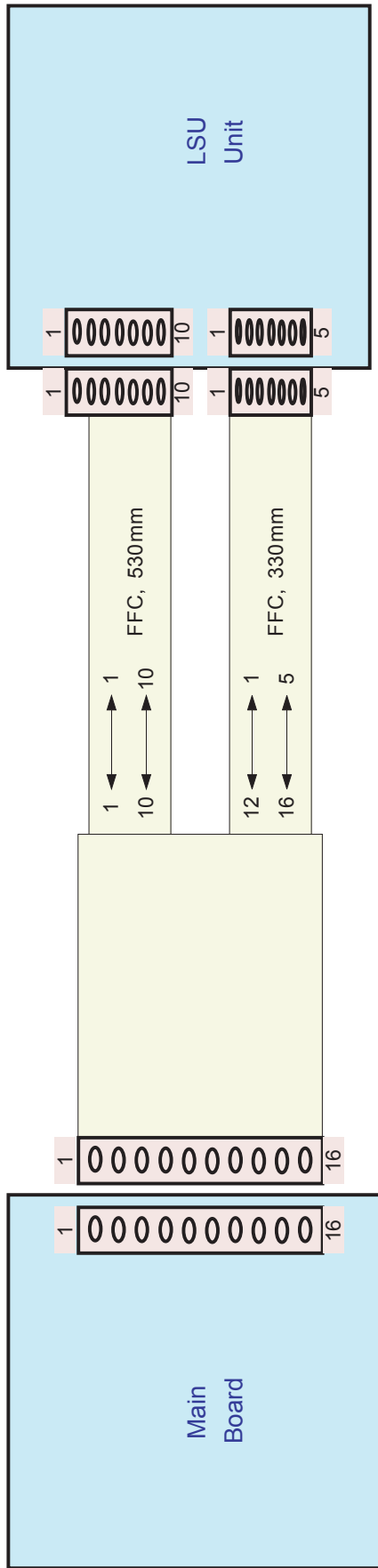
## 5.1 Block Diagram



## 5.2 Connection Diagram



1. Main Board ↔ LSU Unit

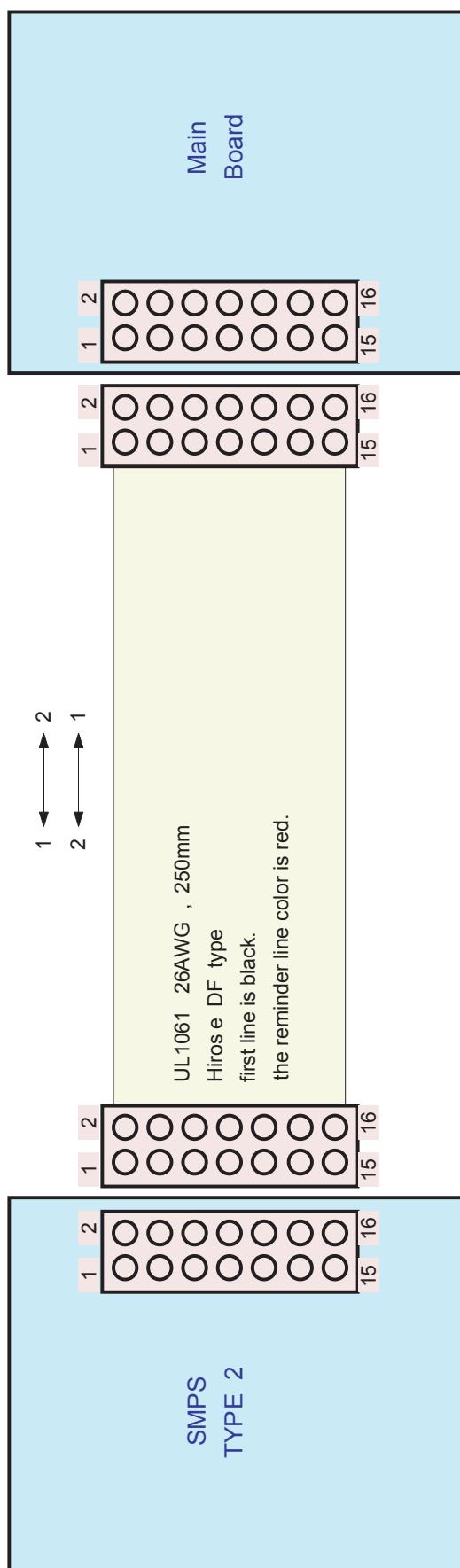


1	+5V_LSU
2	DGND
3	VDO1_plus
4	VDO1_minus
5	DGND
6	LSU_SH1
7	nHSYNC1
8	DGND
9	LD_POWER
10	nLE_EN
11	-
12	LSU_MOT_CLK
13	nLSU_READY
14	nLSU_MOT_EN
15	DGND
16	+24V

1	+5V_LSU
2	DGND
3	VDO1_plus
4	VDO1_minus
5	DGND
6	LSU_SH1
7	nHSYNC1
8	DGND
9	LD_POWER
10	nLE_EN

1	LSU_MOT_CLK
2	nLSU_READY
3	nLSU_MOT_EN
4	DGND
5	+24V

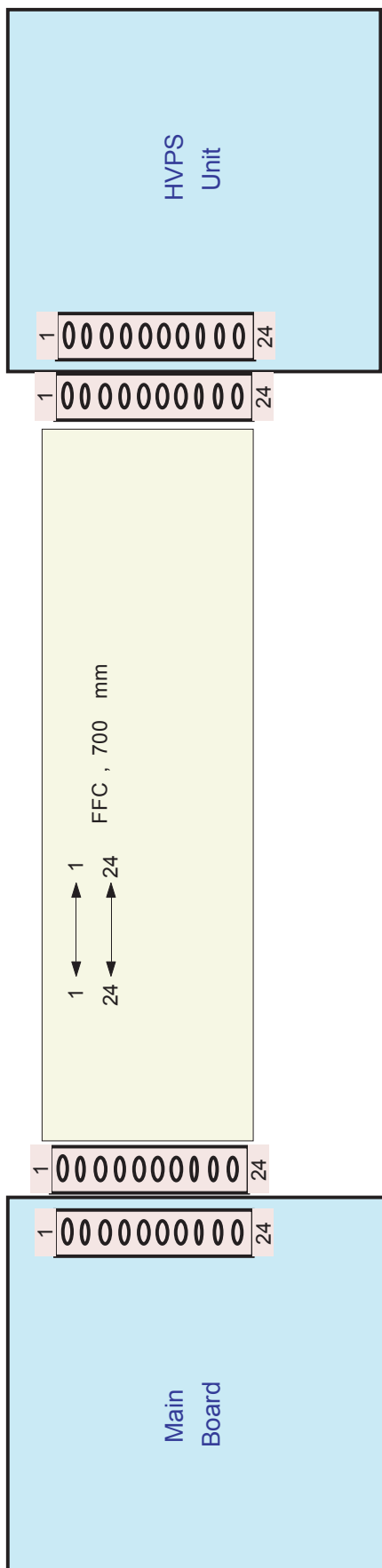
2. SMPS ↔ Main board



+24VF	1	2	FUSER_ON
DGND	3	4	+24VA
DGND	5	6	+24VA
DGND	7	8	+24VA
DGND	9	10	+ 24V
DGND	11	12	+ 5V
DGND	13	14	+ 5V
DGND	15	16	+ 5V

FUSER_ON	1	2	+24 VF
+ 24VA	3	4	DGND
+ 24VA	5	6	DGND
+ 24VA	7	8	DGND
+24V	9	10	DGND
+5V	11	12	DGND
+5V	13	14	DGND
+5V	15	16	DGND

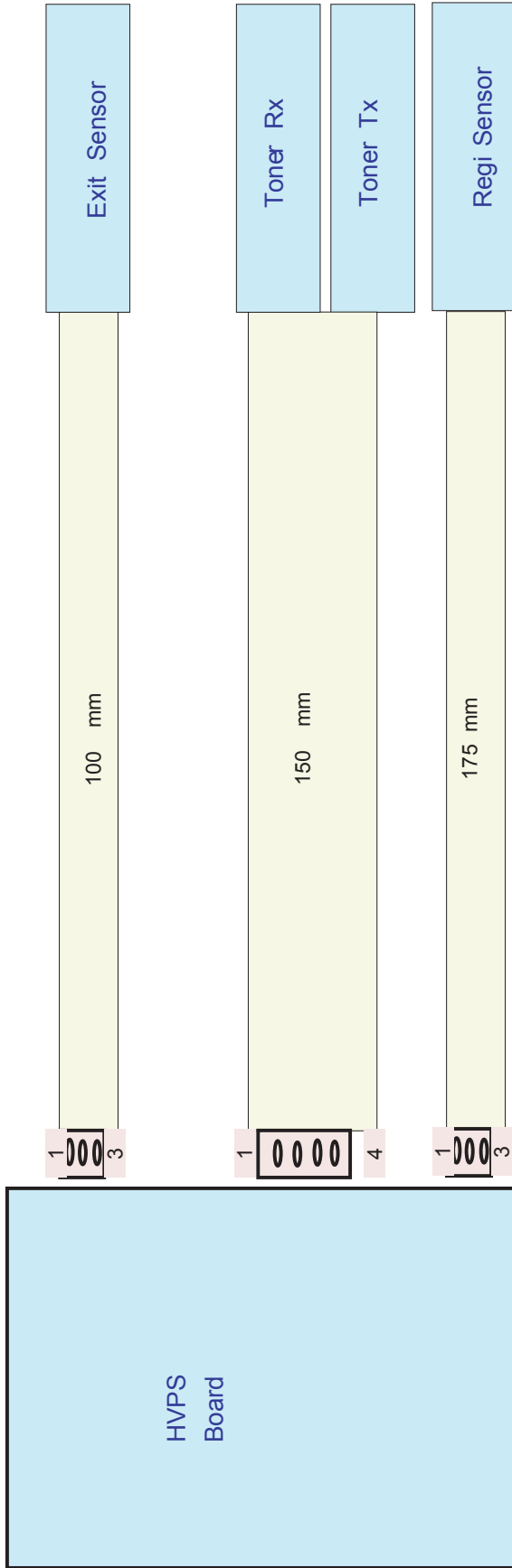
3. Main Board ↔ HVPS



1	+ 24VF
2	+ 24VF
3	DGND
4	DGND
5	nDEV_EN
6	PWM_DEV_VPP
7	PWM_DEV_AC
8	PWM_DEV_DC
9	PWM_I_THV
10	PWM_THV
11	PWM_MHV
12	nTHV_EN
13	ITHV_READ
14	THV_READ
15	-
16	nP_EXIT
17	DEV_SOL2
18	DEV_SOL1
19	nREGI
20	DEV_SOL3
21	WASTE_LED_TX
22	WASTE_LED_RX
23	FAN_MAIN
24	+ 5V_LSU

1	+ 24VF
2	+ 24VF
3	DGND
4	DGND
5	nDEV_EN
6	PWM_DEV_VPP
7	PWM_DEV_AC
8	PWM_DEV_DC
9	PWM_I_THV
10	PWM_THV
11	PWM_MHV
12	nTHV_EN
13	ITHV_READ
14	THV_READ
15	-
16	nP_EXIT
17	DEV_SOL2
18	DEV_SOL1
19	nREGI
20	DEV_SOL3
21	WASTE_LED_TX
22	WASTE_LED_RX
23	FAN_MAIN
24	+ 5V_LSU

4. HVPS ↔ Sensor



1	+5V
2	nEXIT
3	DGND

1	+5V
2	Waste_Lamp
3	Waste_Level
4	DGND

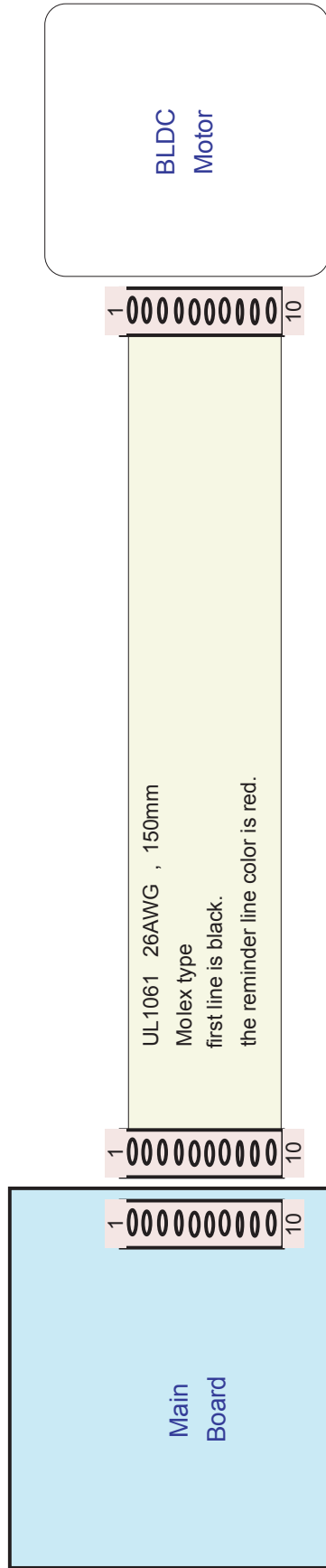
1	+5V
2	nREGI
3	DGND

1	+5V
2	nEXIT
3	DGND

1	+5V
2	Waste_Lamp
3	Waste_Level
4	DGND

1	+5V
2	nREGI
3	DGND

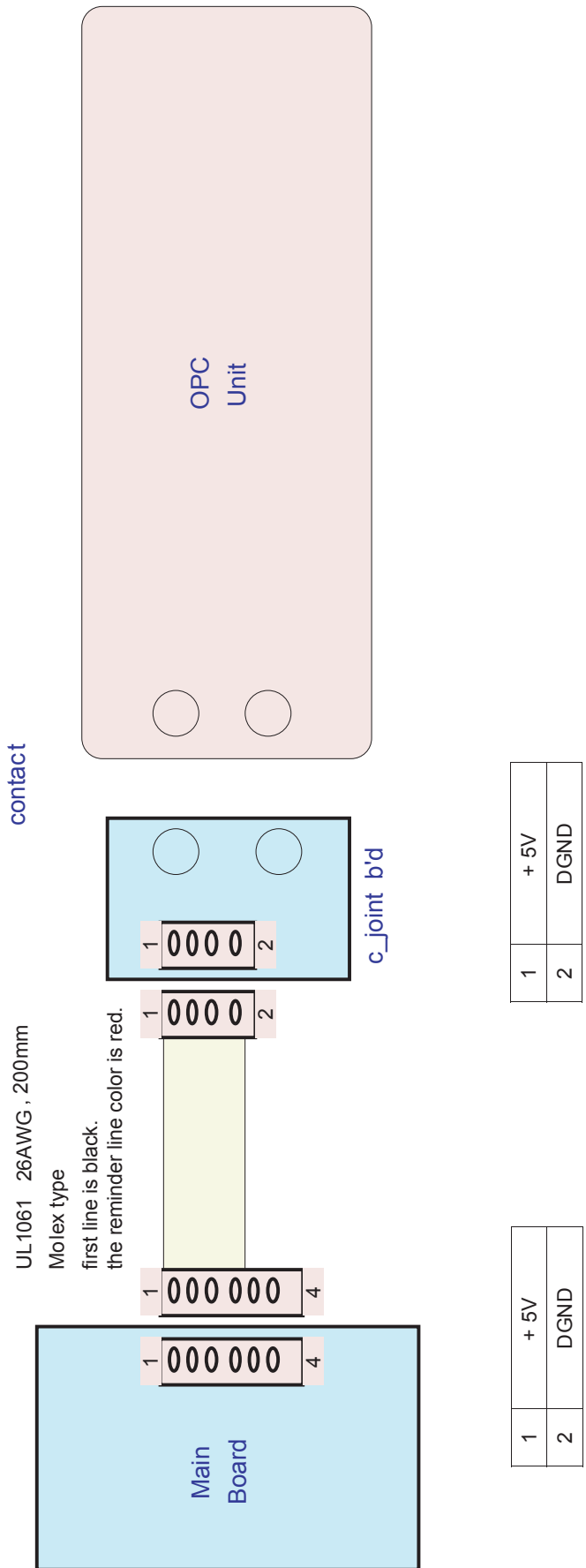
### 5. Main Board ↔ BLDC



1	+ 24VF
2	+ 24VF
3	DGND
4	DGND
5	DGND
6	+ 5V
7	nBLDC_MOTOR_EN
8	BLDC_MOTOR_READY
9	PWM_MOT
10	GAIN

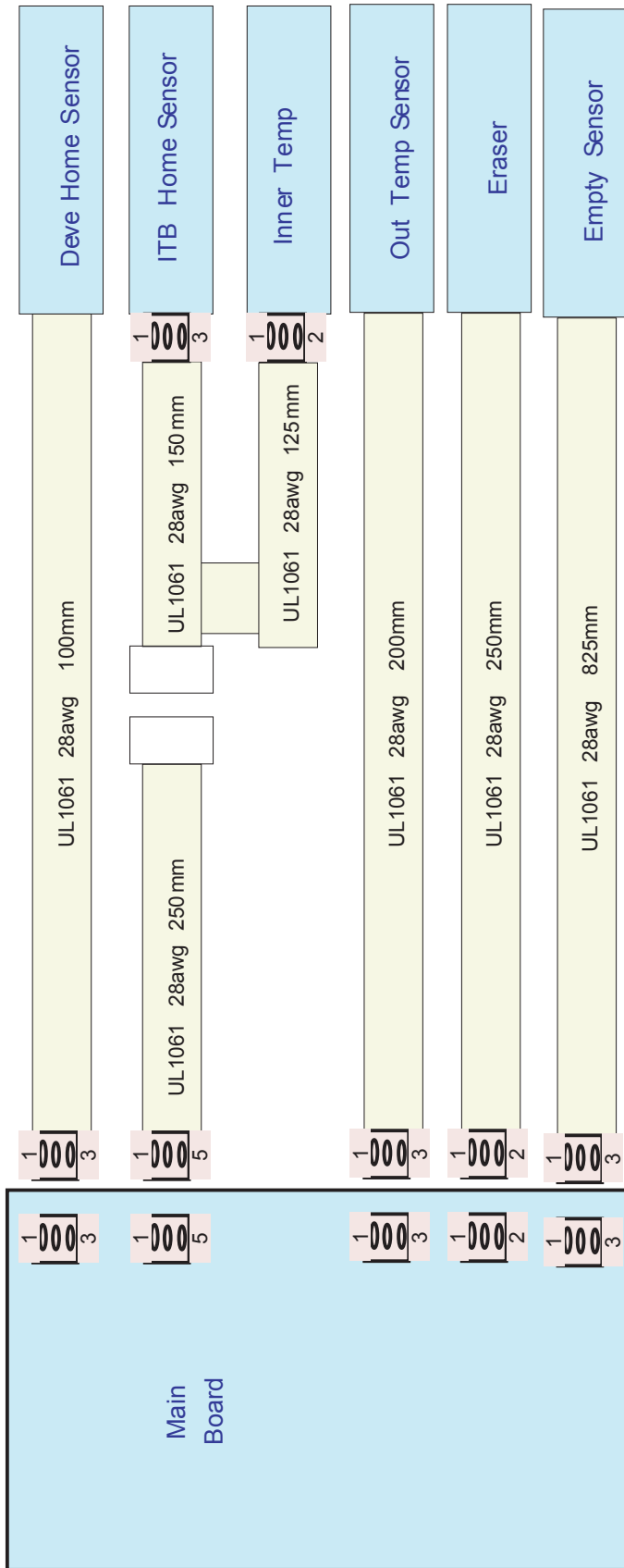
1	+ 24VF
2	+ 24VF
3	DGND
4	DGND
5	DGND
6	+ 5V
7	nBLDC_MOTOR_EN
8	BLDC_MOTOR_READY
9	PWM_MOT
10	GAIN

### 6. Main Board ↔ OPC Fusible





7. Main board ↔ Sensor



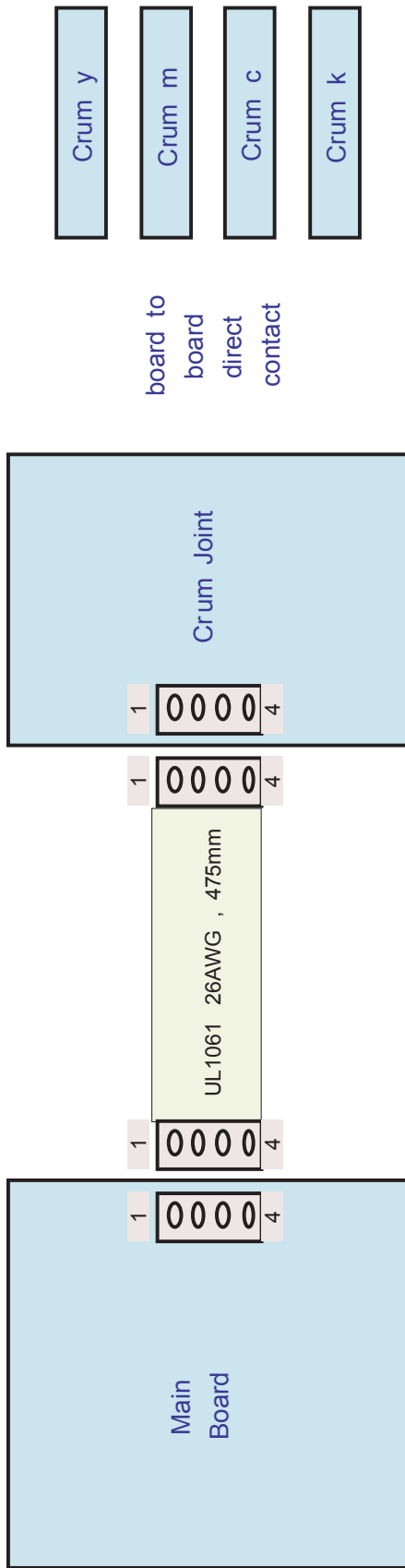
1	+5V
2	nITB_HOME
3	DGND
4	INNER TEMP
5	DGND
1	+5V
2	ERASER_LAMP

1	OUT_TEMP
2	DGND
1	+5V
2	nDEV_HOME
3	DGND
1	+5V
2	nP_EMPTY
3	DGND

1	+5V
2	nITB_HOME
3	DGND
4	INNER TEMP
5	DGND
1	+5V
2	ERASER_LAMP

1	OUT_TEMP
2	DGND
1	+5V
2	nDEV_HOME
3	DGND
1	+5V
2	nP_EMPTY
3	DGND

### 8. Main Board ↔ Crum Joint



1	+ 3.3V
2	SCL
3	SDA
4	DGND

1	+ 3.3V
2	SCL
3	SDA
4	DGND

1	+ 3.3V
2	SCL
3	SDA
4	DGND

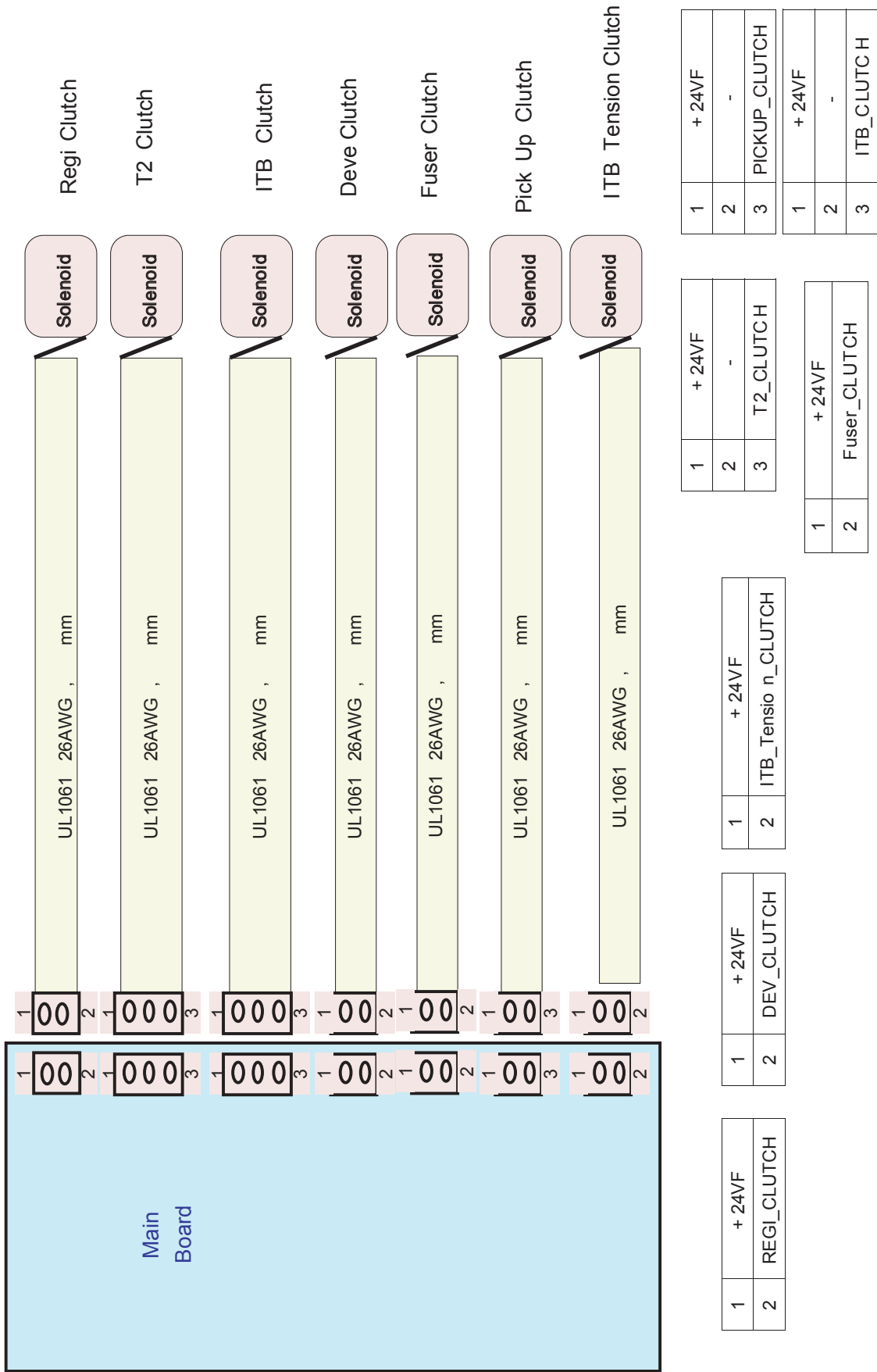
1	+ 3.3V
2	SCL
3	SDA
4	DGND

1	+ 3.3V
2	SCL
3	SDA
4	DGND

1	+ 3.3V
2	SCL
3	SDA
4	DGND

board to  
board  
direct  
contact

9. Main Board ↔ Actuator



10. Main Board ↔ Heater Unit

