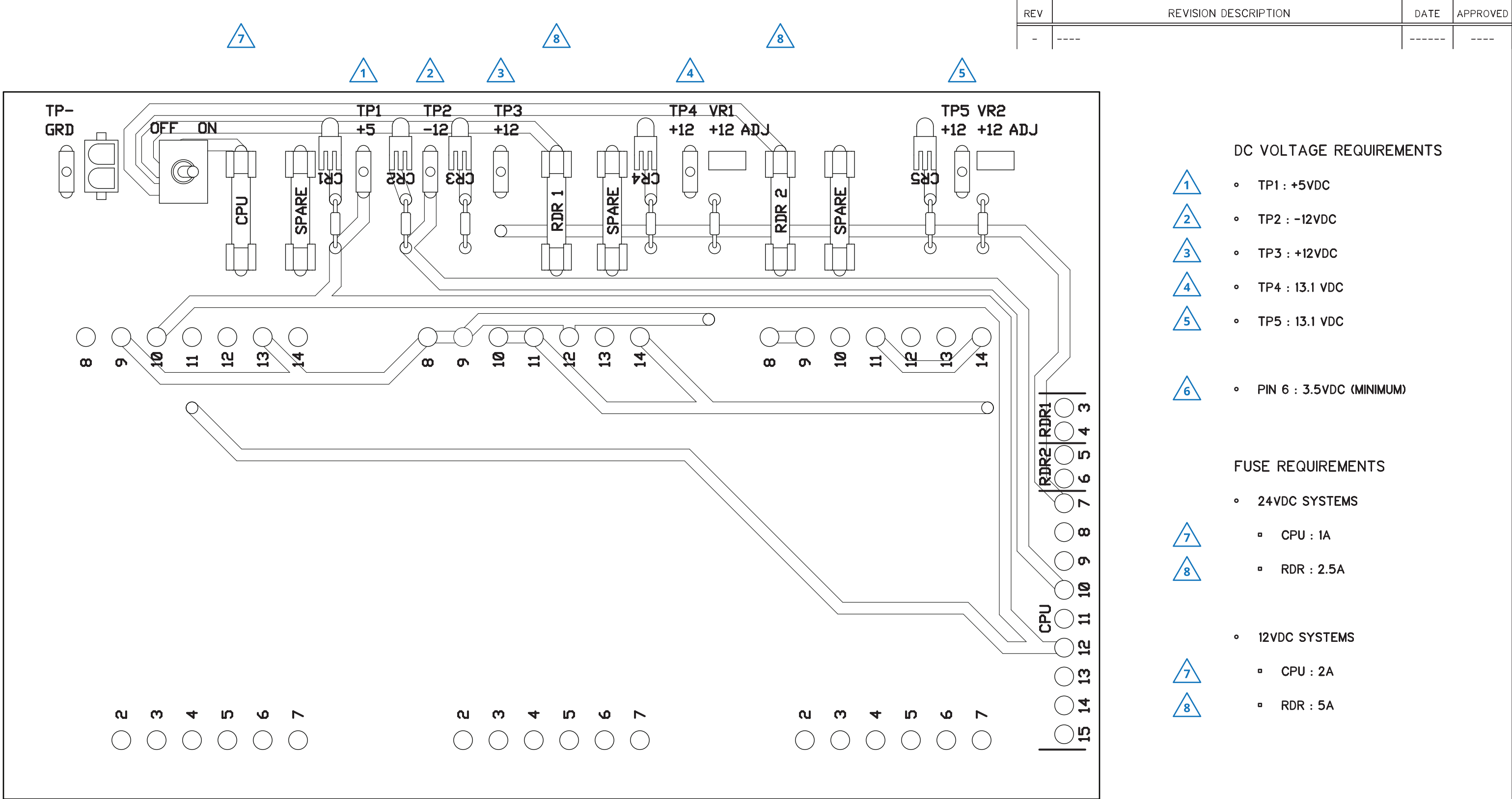
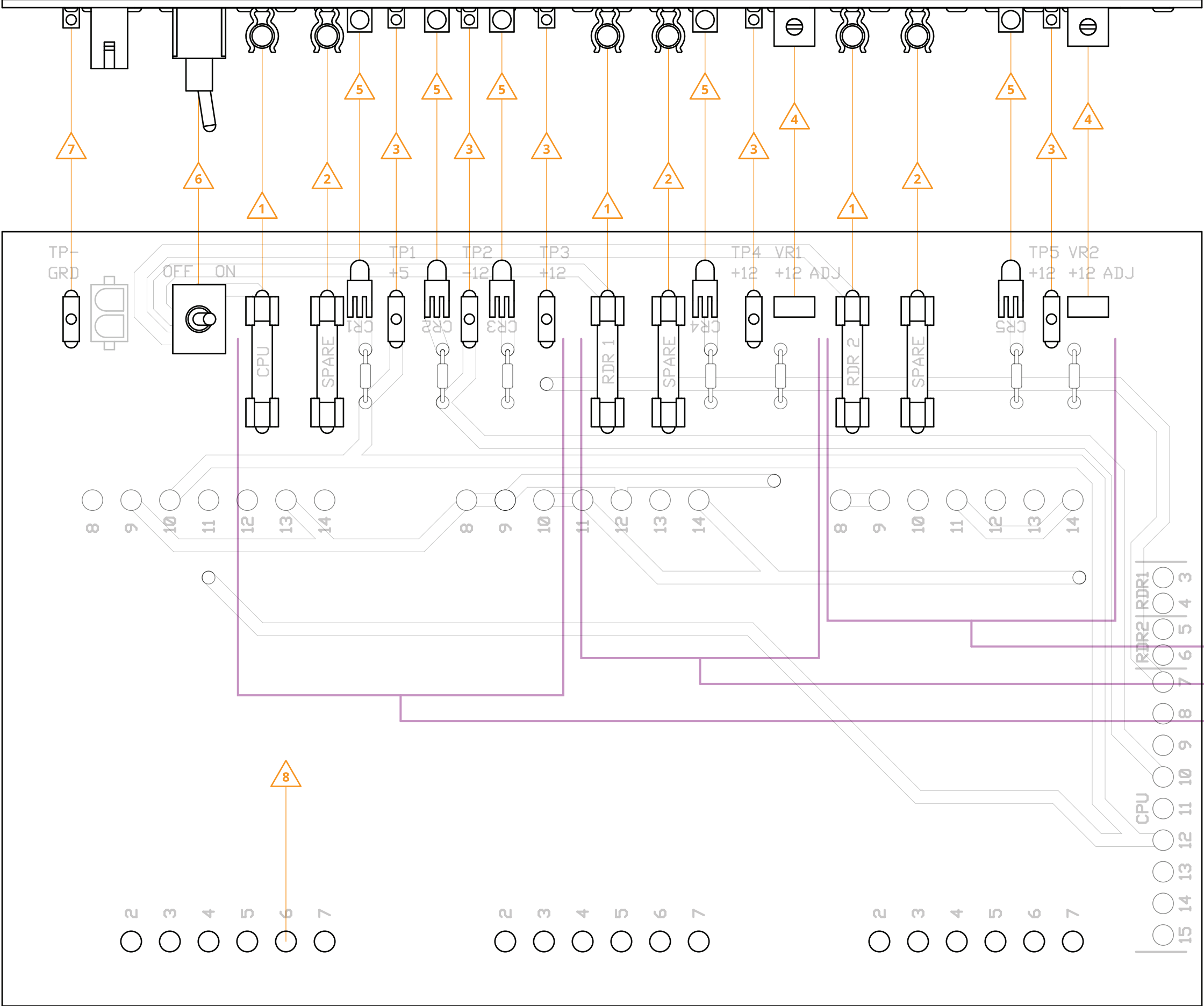






- 1. INSTALLED FUSE
 - 2. SPARE FUSE
 - 3. VOLTAGE TEST POINT
 - 4. VARIABLE RESISTOR
 - 5. LED POWER INDICATOR
 - 6. SWITCH
 - 7. GROUNDING TEST POINT
 - 8. PCB PIN
- MPRX READER 2 PART GROUPING
 - MPRX READER 1 PART GROUPING
 - CPU PART GROUPING

DESCRIPTION	APU, POWER SUPPLY UNIT, PRINTED CIRCUIT BOARD DIAGRAM		
DWG NO.	481700	VERSION	-
SCALE	1 : 1	SHEET	2 OF 4

POWER SUPPLY UNIT DC VOLTAGE TEST PROCEDURE

1. SET THE POWER SUPPLY UNIT (PSU) POWER SWITCH TO ON
2. CONFIGURE THE MULTIMETER TO MEASURE DC VOLTAGE WITH A RANGE OF +/-24 VDC
3. INSERT THE COMMON (COM) LEAD OF THE MULTIMETER INTO THE GROUND TEST POINT LOCATED IN THE UPPER-LEFT CORNER OF THE PSU
4. USING THE POSITIVE LEAD, MEASURE THE DC VOLTAGE AT EACH TEST POINT LISTED BELOW :

TEST POINT	REQUIRED VOLTAGE
TP1	5VDC
TP2	-12VDC
TP3	+12 VDC
TP4	13.1 VDC
TP5*	13.1 VDC

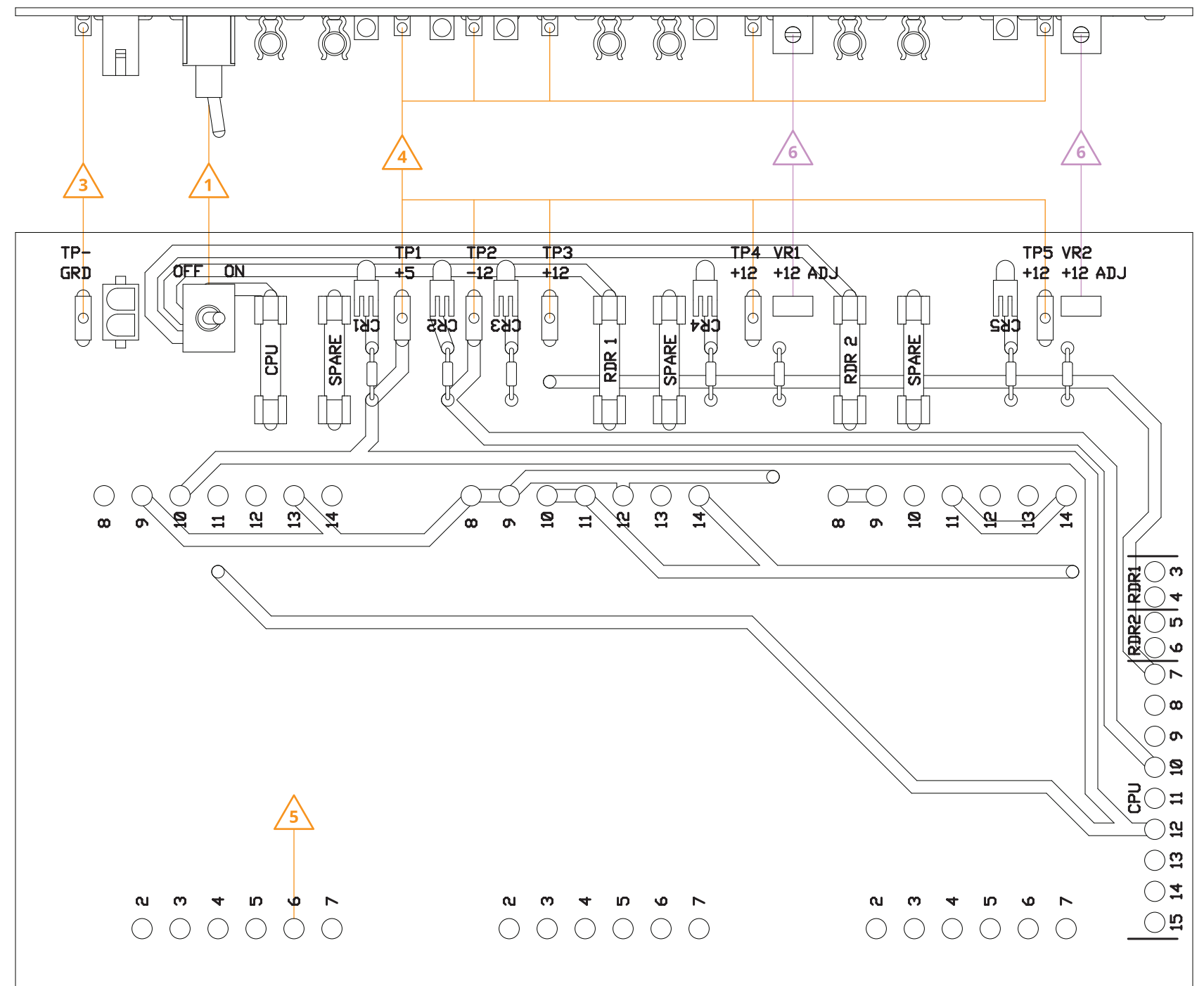
*NOTE : TP5 IS ONLY USED WHEN SECOND MPRX READER IS INSTALLED

5. USING THE POSITIVE LEAD, MEASURE THE DC VOLTAGE AT PIN 6, LOCATED AT THE LOWER-LEFT CORNER OF THE PSU

TEST POINT	REQUIRED VOLTAGE
PIN 6	3.5VDC (MINIMUM)

TROUBLESHOOTING EVALUATION & CORRECTIVE ACTION

- TP1, TP2, OR TP3 DOES NOT MEET THE SPECIFIED VOLTAGE :
THE SYSTEM DOES NOT MEET PERFORMANCE REQUIREMENTS AND NEEDS TO BE REPLACED
- TP4 OR TP5 DOES NOT MEET THE SPECIFIED VOLTAGE :
- 6. ADJUST THE VOLTAGE USING THE VARIABLE RESISTOR ADJUSTMENT DIAL LOCATED NEXT TO THE CORRESPONDING TEST POINT UNTIL THE SPECIFIED VALUE IS ACHIEVED
- PIN 6 DOES NOT MEET THE SPECIFIED VOLTAGE :
THE SYSTEM DOES NOT MEET PERFORMANCE REQUIREMENTS AND NEEDS TO BE REPLACED



DESCRIPTION			
APU, POWER SUPPLY UNIT, DC VOLTAGE TESTING PROCEDURE			
DWG NO.			VERSION
481700			-
SCALE		SHEET	
NTS		3	OF 4

POWER SUPPLY UNIT SWITCH AND PSU BRICK TEST PROCEDURE

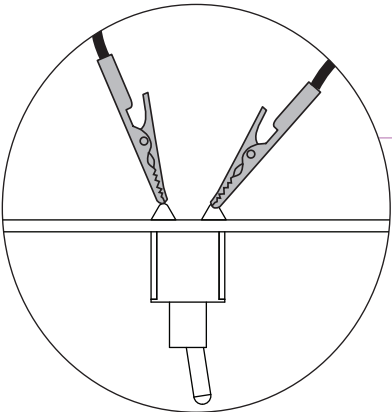
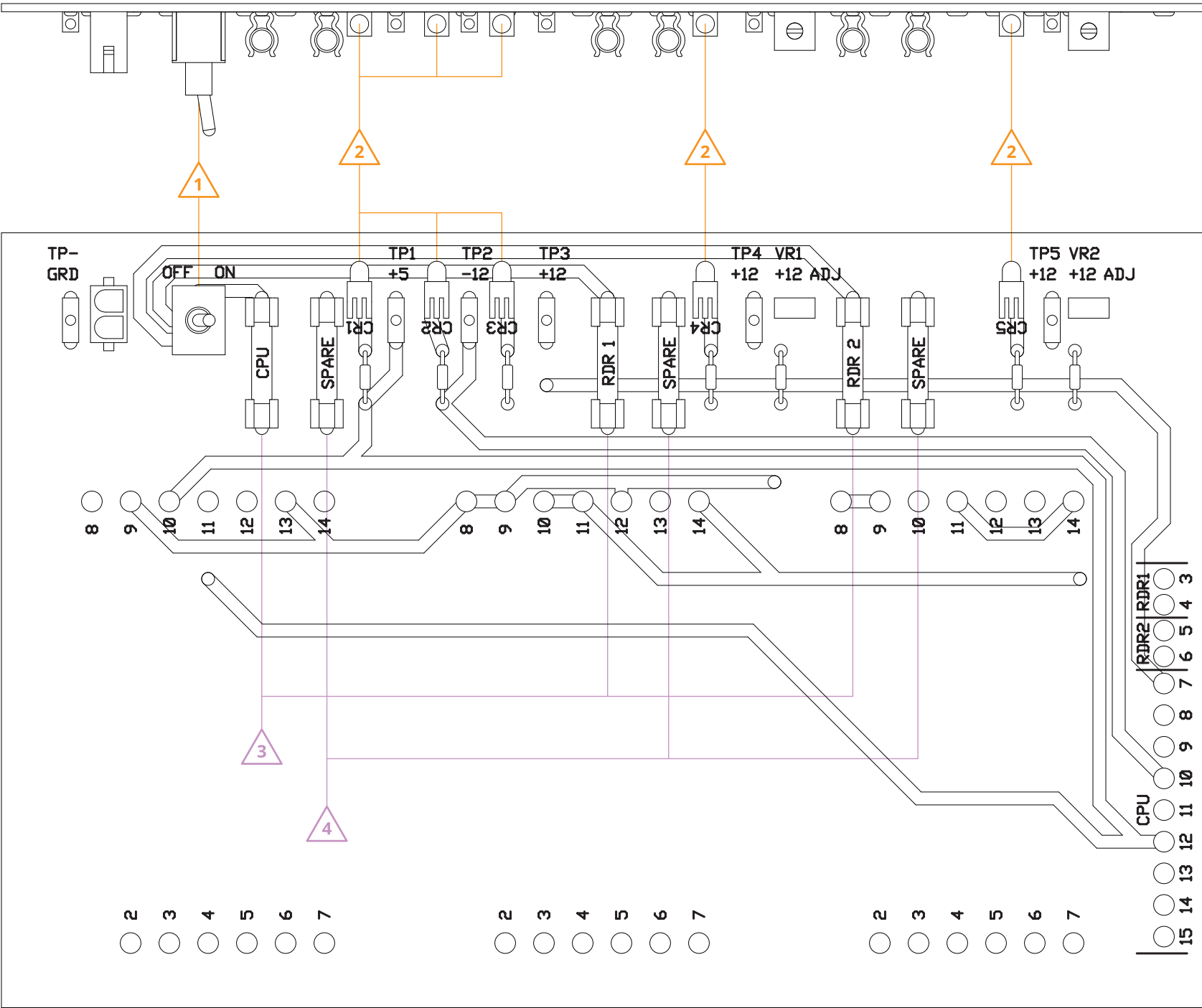
- 1. SET THE POWER SUPPLY UNIT (PSU) POWER SWITCH TO ON
- 2. VERIFY THAT ALL APPROPRIATE LEDS ARE ILLUMINATED BASED ON SYSTEM SETUP

PSU GROUP	LEDS
CPU	CR1, CR2, CR3
MPRX READER 1	CR4
MPRX READER 2	CR5*

*NOTE : CR5 SHOULD ONLY BE LIT IF SECOND MPRX READER IS INSTALLED

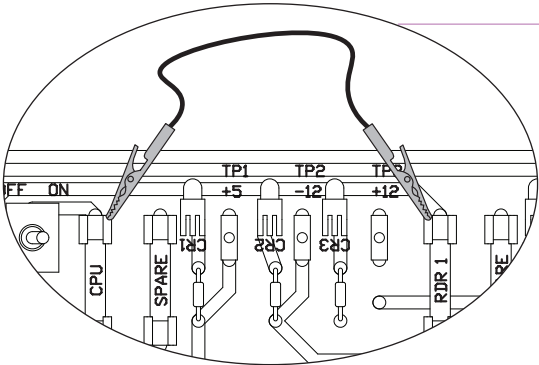
TROUBLESHOOTING EVALUATION & CORRECTIVE ACTION

- IF ONE OR MORE PSU GROUP LEDS ARE OFF :
 - 3. INSPECT THE FUSES TO VERIFY CORRECT FUSE IS INSTALLED PER SYSTEM AMP REQUIREMENT
- IF FUSES ARE VERIFIED AND LEDS ARE OFF :
 - 4. SPARE FUSES ARE PROVIDED IF REPLACEMENT IS NEEDED
 - 5. ALL LEDS ARE OFF : USE A TEMPORARY JUMPER TO CONNECT THE SWITCH TERMINALS ON THE REAR OF THE UNIT TO BYPASS IT
 - 6. ONE PSU GROUP LEDS ARE OFF : USE A TEMPORARY JUMPER TO BYPASS THE SWITCH AND CONNECT THE FUSE OF THE OPERATIONAL GROUP TO THE FUSE OF THE NON-OPERATIONAL GROUP
- IF THE LED(S) DO NOT ILLUMINATE :
 - THE POWER SUPPLY BRICK DOES NOT MEET PERFORMANCE REQUIREMENTS AND NEEDS TO BE REPLACED
- IF THE LED(S) ILLUMINATE :
 - THE SWITCH IS DEFECTIVE AND NEEDS TO BE REPLACED OR BYPASSED TO RESTORE OPERATION



5

EXAMPLE SHOWN IS USING TEMPORARY BYPASS TO CHECK IF CR1, CR2, CR3 LEDS LIGHT UP WHEN CONNECTING DIRECTLY TO POWER



6

EXAMPLE SHOWN IS USING TEMPORARY BYPASS TO CHECK IF CR1, CR2, CR3 LEDS LIGHT UP WHEN POWERING DIRECTLY FROM RDR1 FUSE

DESCRIPTION	APU, POWER SUPPLY UNIT, SWITCH & POWER BRICK TESTING PROCEDURE		
DWG NO.	481700	VERSION	-
SCALE	NTS	SHEET	4 OF 4