

MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
PC787W	/	/	2013/7/23	Yamazaki

TITLE	ALIGNMENT OF TRANSMITTER	SUB TITLE	
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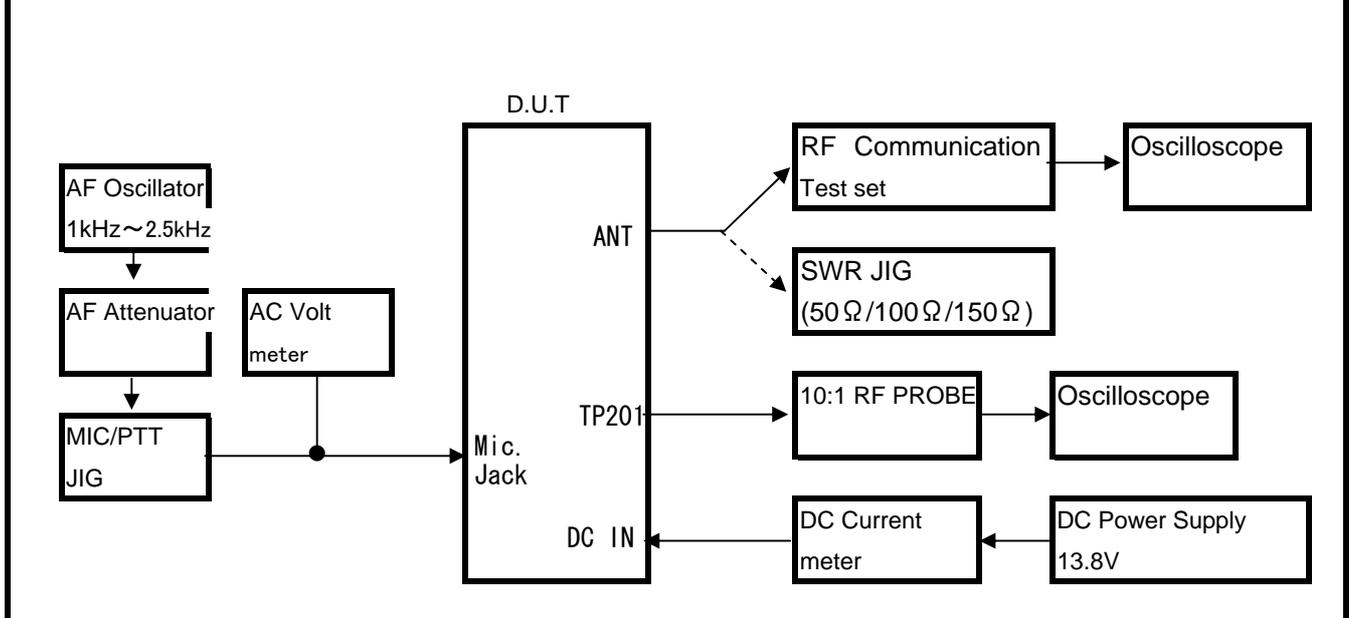
**REQUIRED EQUIPMENT AND JIG**

NO.	JIG / EQUIPMENT NAME	JIG/EQUIP. MODEL NO.	QTY	REMARKS (SPEC OF EQUIP.)
1	DC POWER SUPPLY		1	16V; >3A
2	DC CURRENT METER		1	
3	RF COMMUNICATION TEST SET		1	8920B 60W
4	OSCILLOSCOPE		2	>50MHz
5	AF OSCILLATOR		1	
6	AF ATTENUATOR		1	
7	AC VOLTMETER		1	
8	MIC/PTT JIG		1	
9	SWR JIG		1	
10	10:1 RF Probe		1	
			1	

**JIG AND EQUIPMENT SETTING**


**TOOLS / EQPT REQ'D FOR ADJUSTMENT**

**EQUIPMENT / JIG CONNECTION DIAGRAM(ARIGN. PROCEDURE REF.DIAGRAM FORM4 CAN BE USED)**



<b>REVISIONS</b>	REV. CODE	△	△	△	△	△	△	△	△	△	△	△	△	△	△
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# ALIGNMENT PROCEDURE

FORM - 3

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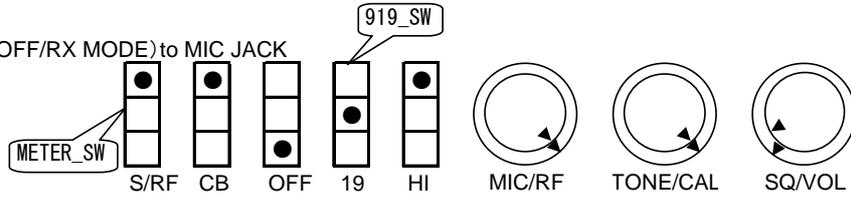
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PC787W			2013/7/23	Yamazaki

TITLE	ALIGNMENT OF TRANSMITTER	SUB TITLE	REF DIAGRAM
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## 1, ALIGNMENT PROCEDURE

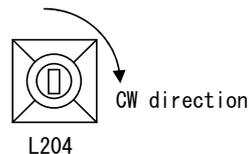
Connect PTT/MIC JIG (PTT OFF/RX MODE) to MIC JACK

FRONT PANEL setting



STEP	CH	TEST CONDITION	ADJ.	PROCEDURE
1	19	POWER ON, CH set to CB/19		
2	19	PTT SW ON (MIC NO INPUT)	L211 L210	Connect RF probe to TP203 Adjust L211 and L210 to maximum on oscilloscope reading. Repeat two times of above.
3	19	PTT SW ON (MIC NO INPUT)	L209	Connect RF probe to TP201 Adjust L209 to maximum on oscilloscope reading.
4	19	PTT SW ON (MIC NO INPUT)	L204 L204	ADJUST RF TX POWER to MAXIMUM ADJUST RF TX POWER to 3.65W ±0.05*1 CHECK DC current; less than 1.5 A CHECK TX FREQ.; 27.185MHz +/- 300Hz
5	19	METER_SW set to S/RF PTT SW ON MIC INPUT : NO SIGNAL	RT201	ADJUST METER TO "4" position 
6	19	PTT SW ON MIC GAIN : set to MAX MIC INPUT : 1kHz / 1mV		CHECK AM MODULATION : 50% or more

\*1 Adjust L204 to the CW direction from the maximum power position

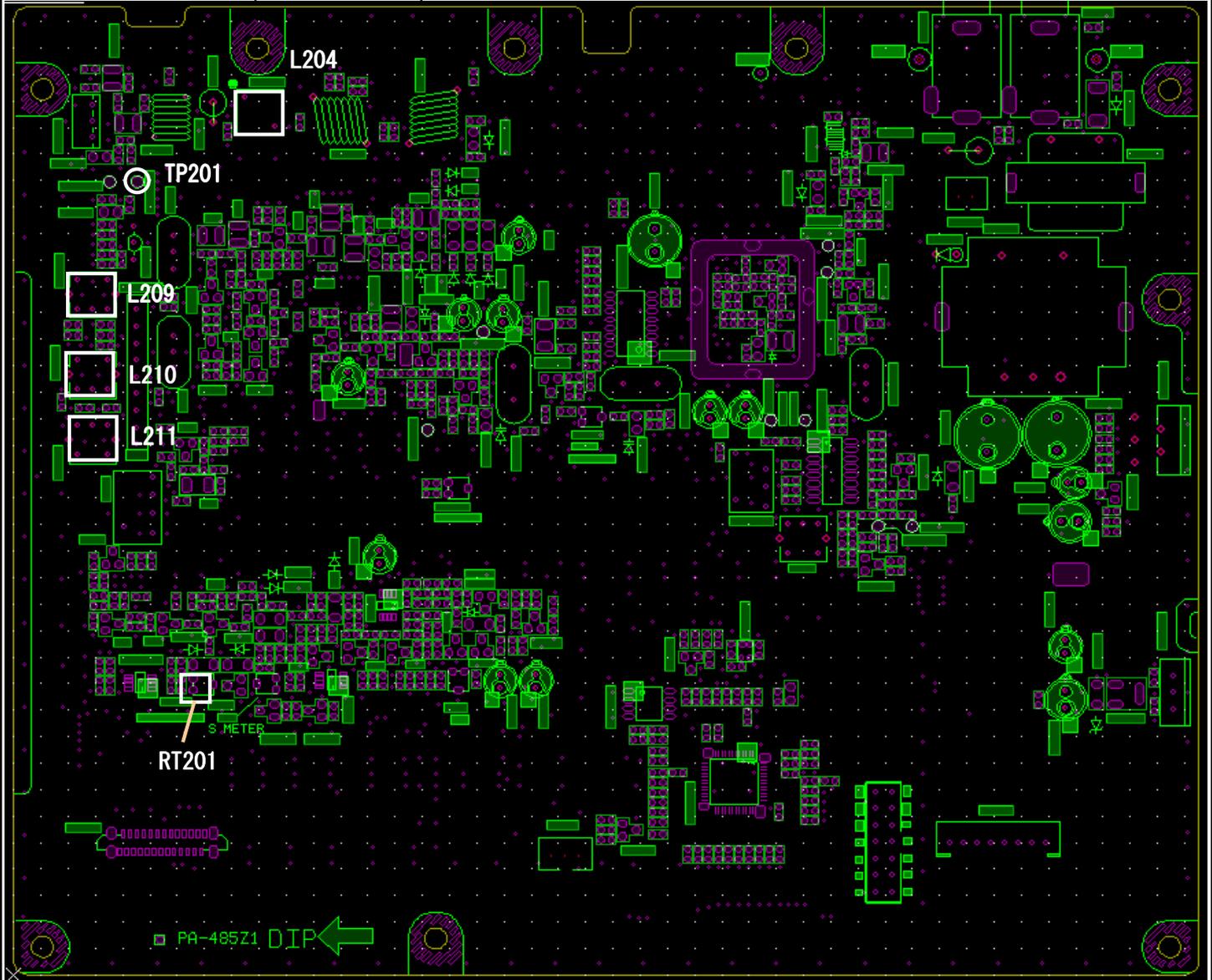


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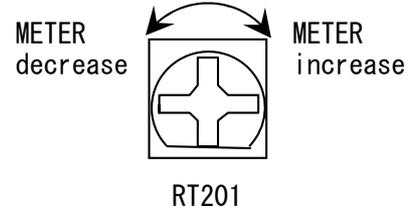
ALIGNMENT PROCEDURE FORM-4		REFERENCE DIAGRAM NO.				PAGE	3
MODEL	UNIT	BLOCK	ISSUE DATE		ISSUED		
PC787W			2013/7/23		Yamazaki		

TITLE	ALIGNMENT OF TRANSMITTER	SUB TITLE	ADJUSTMENT POINTS	REF DIAGRAM
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### B1 PA-485 (TOP VIEW)



L204 : TX Power Adjust  
 RT201: TX meter Adjust



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MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
UT3951V			2013/7/23	Yamazaki

TITLE	ALIGNMENT OF RECEIVER	SUB TITLE	
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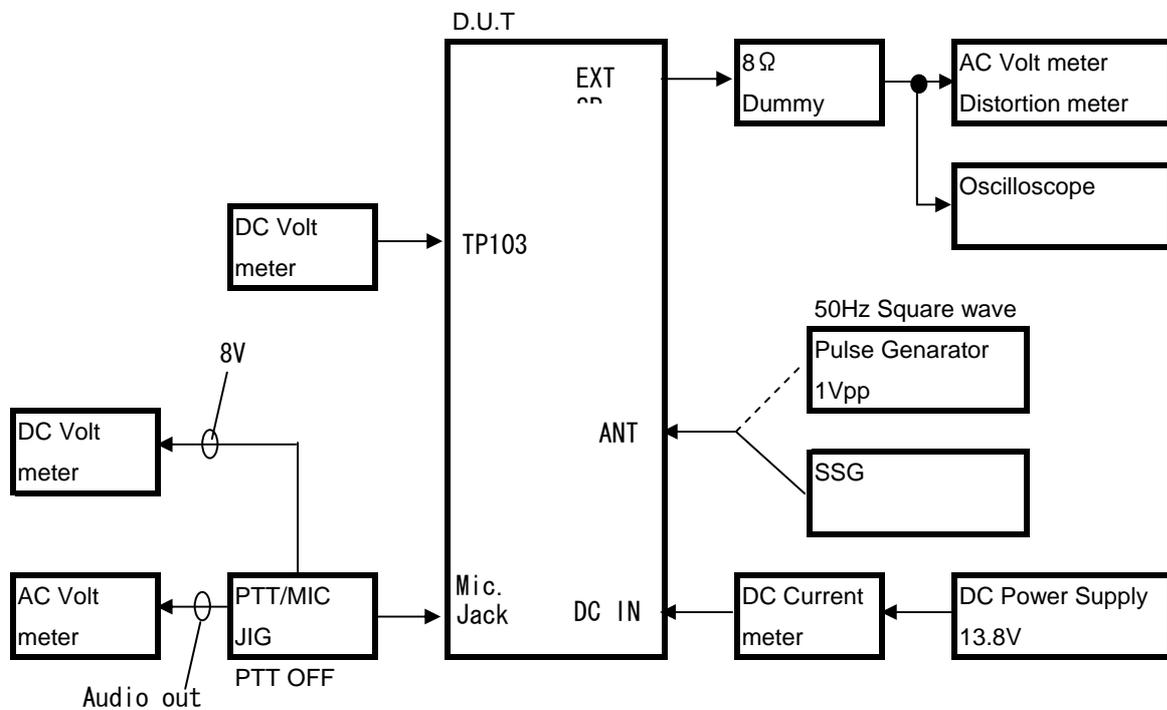
REQUIRED EQUIPMENT AND JIG

NO.	JIG / EQUIPMENT NAME	JIG/EQUIP. MODEL NO.	QTY	REMARKS (SPEC OF EQUIP.)
1	DC POWER SUPPLY		1	15V; >2A
2	SIGNAL GENERATOR		1	
3	AC VOLTMETER with Distortion		1	
4	8 ohm DUMMY LOAD		1	>5W
5	OSCILLOSCOPE		1	
6	DC CURRENT METER		1	
7	PTT / MIC JIG		1	
8	PULSE GENERATOR		1	
9	DC VOLT METER		2	DIGITAL VOLT METER
10	AC VOLTMETER		1	

JIG AND EQUIPMENT SETTING


TOOLS / EQPT REQ'D FOR ADJUSTMENT

EQUIPMENT / JIG CONNECTION DIAGRAM (ALIGN. PROCEDURE REF. DIAGRAM FORM4 CAN BE USED)



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# ALIGNMENT PROCEDURE

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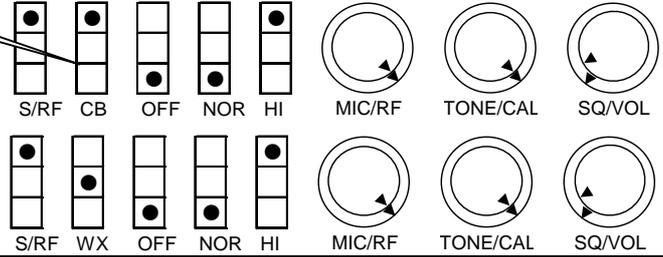
MODEL	UNIT	BLOCK	ISSUE DATE	ISSUED
PC787W			2013/7/23	Yamazaki

TITLE	ALIGNMENT OF RECEIVER	SUB TITLE	CB ALIGNMENT PROCEDURE	REF DIAGRAM
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## 1,ALIGNMENT PROCEDURE

Connect PTT/MIC JIG (PTT OFF/RX MODE) to MIC JACK  
FRONT PANEL setting

MODE\_SW



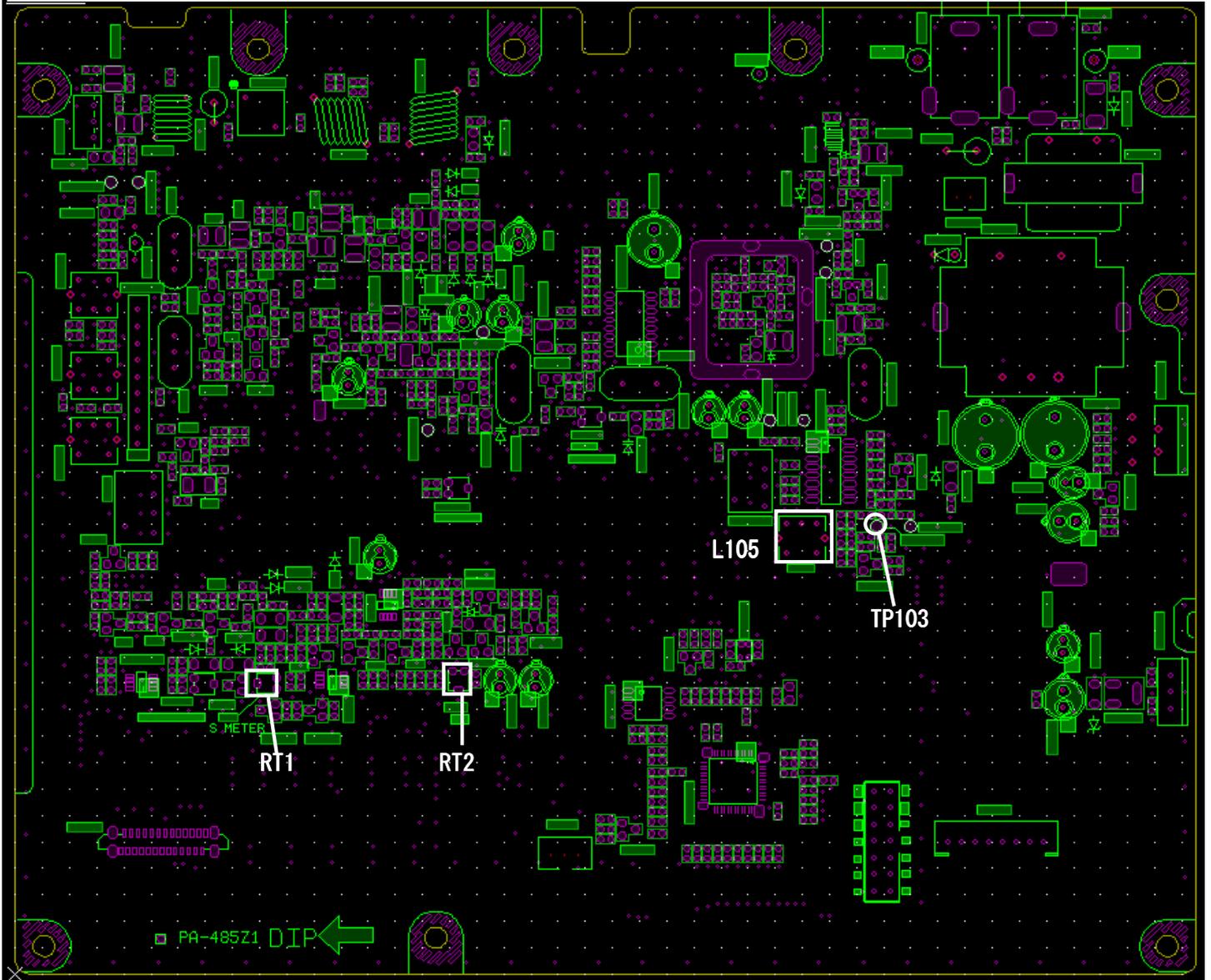
STEP	CH	TEST CONDITION	ADJ.	PROCEDURE
1	20	POWER ON, CH set to CB/20		
2	20	SSG set to 27.205MHz CW(=NO MOD.) -67dBm METER_SW set to S/RF	RT1	Adjust RT1 to meter indication "9" 
3	20	SSG set to 27.205MHz 1kHz AM30%MOD -47dBm SQ : CW	RT2	Adjust RT2 at the position where a sound just appears.
4	01	MODE_SW set to WX CH set to WX/01		
5	01	SSG set to 162.55MHz CW(=NO MOD.) -47dBm	L105	Connect volt meter to TP103 Adjust L105 to TP103 voltage 3.0V ±0.3V

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ALIGNMENT PROCEDURE		FORM-4	REFERENCE DIAGRAM NO.				PAGE	6
MODEL	UNIT	BLOCK	ISSUE DATE			ISSUED		
PC787W			2013/7/23			Yamazaki		

TITLE	ALIGNMENT OF RECEIVER	SUB TITLE	CB ADJUSTMENT POINTS	REF DIAGRAM
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### B1 PA-485 (TOP VIEW)



- RT1: S meter adjust
- RT2: CB SQ adjust
- L105: WX discriminator adjust
- TP103 : Discrri voltage

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