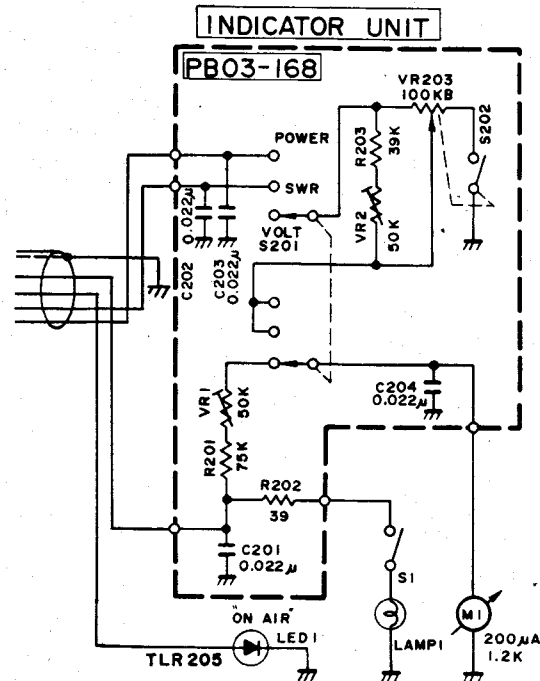


SW-100A/B SPECIFICATIONS

	SW-100A	SW-100B
Impedance	50-52Ω	
Frequency range	1.8-150MHz	140-450MHz
Power meter range	0-150W	
Power measurement accuracy	±10% (full scale)	
Over load [Coupler]	150W continuous 300W PEP	100W continuous 200W PEP
SWR measurement range	1:1-1:3	
DC voltage measurement range	0-20V DC	
Insertion loss	Less than 0.3dB	Less than 0.5dB
Residual SWR	within 1.2	
Power	Less than 15V	
Connector	M type (SO-239)	
Coupler-Display cable length	Approx. 1.5m	
Dimensions	W	H D
[Coupler section]	68 (2.68),	32 (1.26), 52 (2.05)
[Display section]	92 (3.62),	62 (2.44), 36 (1.42)
	() : Inch	
Weight		
[Coupler section]	Approx. 260g (0.6lbs)	
[Display section]	Approx. 90g (0.2lbs)	

SW-100A/B SCHEMATIC DIAGRAM

Display section

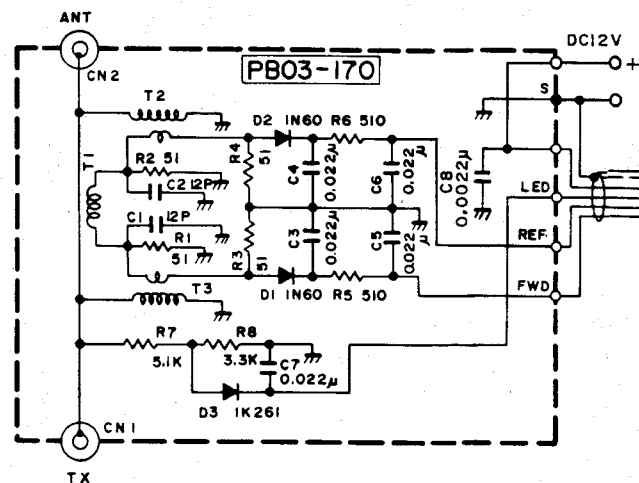


SW-100A/B PARTS LIST

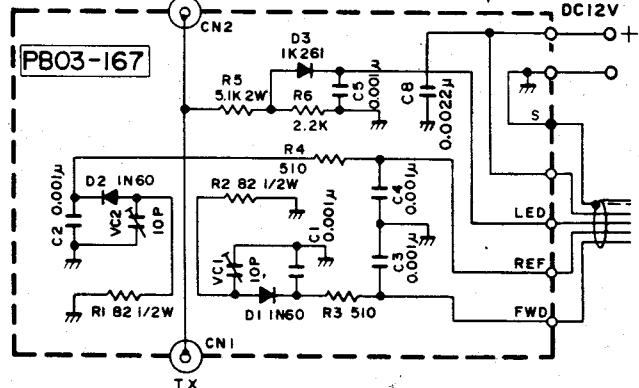
Part No.	Re-remarks	Description	Ref. No.	Q'ty
TLR205		LED (Red)	LED1	1
1K261		Ge diode	D3	1
1N60		Ge diode	D1,2	2
A02-0659-08	N	Rear panel		1
B07-0646-08	N	Meter cover		1
B30-0830-08	N	Lamp	LAMP1	1
B31-0651-08	N	Meter ass'y		1
B50-4047-08	N	Instruction manual		1
E30-1735-08	N	Coupler cable		1
E30-1737-08	N	DC cable		1
J09-0405-08	N	Stand		1
K29-0783-08	N	Knob (CAL)		1
R05-4410-08	N	Trim pot. 100kΩ(B)	VR203	1
S31-1412-08	N	Slide switch LAMP	S1	1
S31-2407-08	N	Slide switch POWER-SWR-VOLT	S201	1
W02-0350-08	N	Coupler ass'y SW-100A		1
W02-0351-08	N	Coupler ass'y SW-100B		1

Coupler section

SW-100A



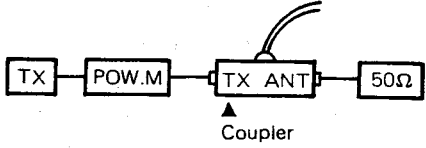
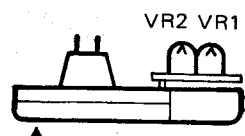
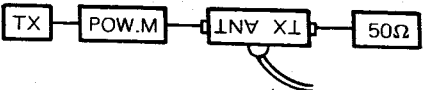
SW-100B



SW-100A/B, 200/2000

SW-100A/B ADJUSTMENT

SW-100A/B () : SW-100B

Item	Condition	Measurement	Adjustment	Specification
Power meter	TX : 14MHz, 50W output (144MHz, 50W output) CAL knob : CAL position Function switch : POWER		50W by VR2	 Display section Within ±7%
SWR meter check	Function switch : SWR			50W within ±10%
VOLT meter	Function switch : VOLT Connect the DC 14V	Display section	14V by VR1	14V±4% (13.44-14.56V)

SW-200/2000 SPECIFICATIONS

Coupler section (Accessories)

	SW-200A	SW-200B	SW-2000	
Model	SWC-1	SWC-2	SWC-3	
Impedance	50-52Ω			
Frequency range	1.8-150MHz	140-450MHz	1.8-54MHz	
Overload	AM/FM	200W	100W	HF 1KW VHF 300W
	CW	300W	150W	1.5KW 450W
	PEP	400W	200W	2KW 600W
Insertion loss	Less than 0.3dB	Less than 0.5dB	Less than 0.3dB	
Residual SWR	Within 1.2			
Connector	M type (SO-239)			
Detector cable length	Approx. 1.5m			
Dimensions () : Inch	W	H	D	
	68 (2.68)	32 (1.26)	52 (2.05)	
Weight	Approx. 260g (0.6lbs)			

Display section

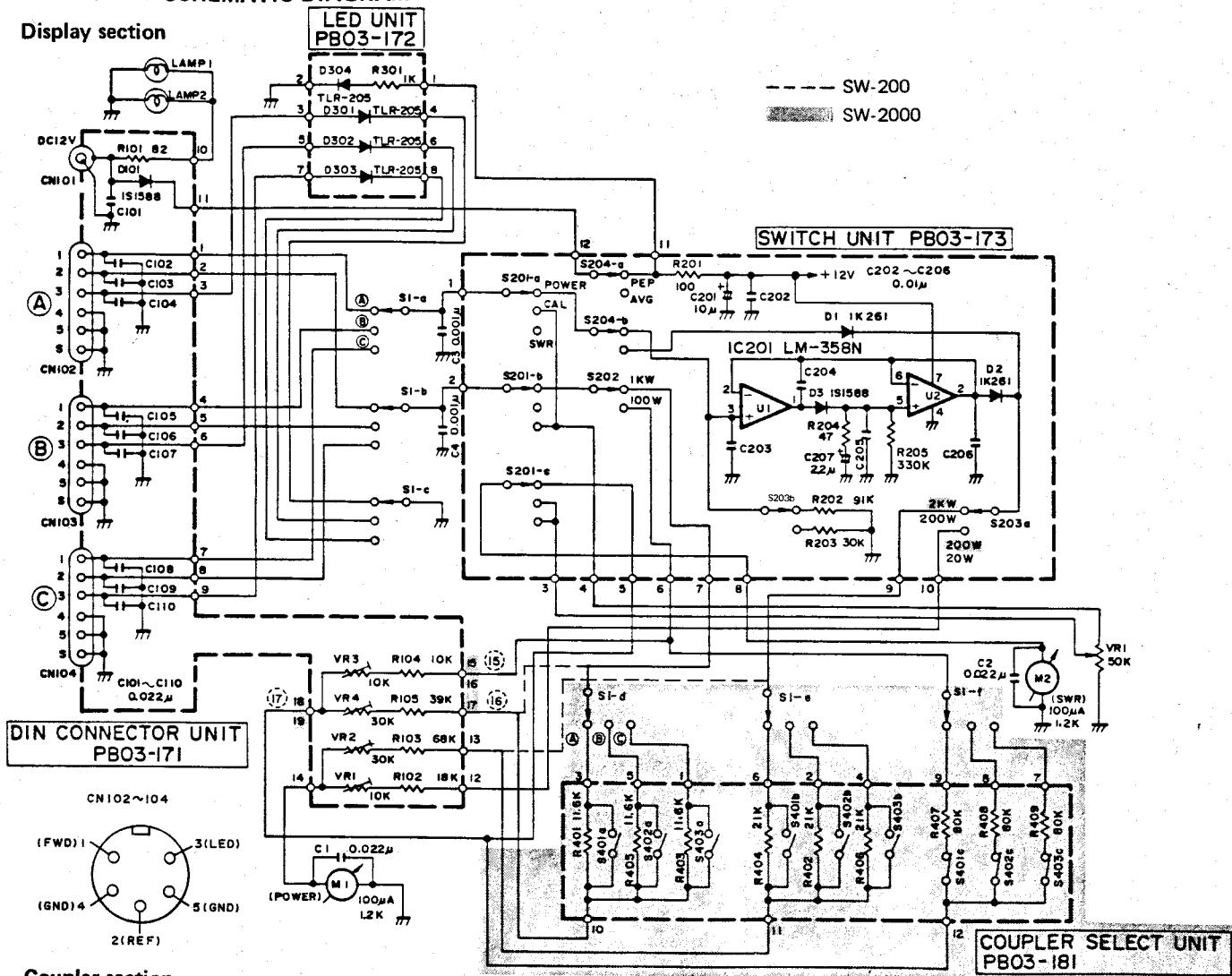
	SW-200A	SW-200B	SW-2000
Power measurement range	FWD	0-20, 200W	0-200, 2000W
	REF	0-10, 100W	0-100, 1000W
Power measurement accuracy (Full scale)	±10%		1.8-30MHz±10% 50-54MHz-15%
Power measurement mode	AVG, PEP		
SWR measurement range	1 : 1-1 : 10		
Minimum power for SWR measurement	Approx. 3W		Approx. 30W
Coupler connection and display	<ul style="list-style-type: none"> Arbitrary coupler SWC-1,2,3 3-units connectable (SW-2000) Arbitrary coupler SWC-1,2 3-units connectable (SW-200A,B) 3-couplers switchable and display 		
Power consumption	11V-15V DC, MAX 100mA (PEP measurement and meter lamp only)		
Dimensions () : Inch	W	H	D
	196 (7.72)	63 (2.48)	78 (3.07)
Weight	Approx. 650g (1.4 lbs)		
Accessories	Red/black DC power cable (1m)		

SW-200/2000 PARTS LIST

Part No.	Re- marks	Description	Ref. No.	Q'ty
LM-358N		OP IC	IC201	1
TLR205		LED (Red)	D301-304	4
1K261		Ge diode	D1,2	2
1S1588		Si diode	D3,101	2
B07-0644-08	N	Meter cover	SW-200	1
B07-0648-08	N	Meter cover	SW-2000	1
B30-0830-08	N	Lamp	LAMP1,2	2
B31-0646-08	N	Meter ass'y	SW-200	1
B31-0647-08	N	Meter ass'y	SW-2000	1
B50-4045-08	N	Instruction manual	SW-200	1
B50-4090-08	N	Instruction manual	SW-2000	1
E03-0157-08	N	Power jack	CN101	1
E06-0553-08	N	5P DIN socket	CN102-104	3
E30-1736-08	N	DC cable Accessory		1
G09-0410-05		D-spring (CAL,COUPLER)		2
K23-0721-04		Knob (CAL,COUPLER)		2
R01-4412-08	N	Pot. 50kΩ(B)	VR1	1
S29-1431-08	N	Rotary switch (COUPLER)	S1	1
S29-2408-08	N	Rotary switch (COUPLER)	S1	1
S33-2404-08	N	Lever switch	S202-204	3
S33-4401-08	N	Slide switch (Rear panel)	S401-403	3
S33-4403-08	N	Lever switch (POW-CAL-SWR)	S201	1

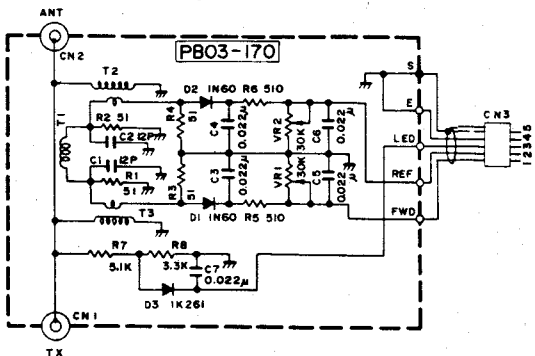
SW-200/2000 SCHEMATIC DIAGRAM

Display section

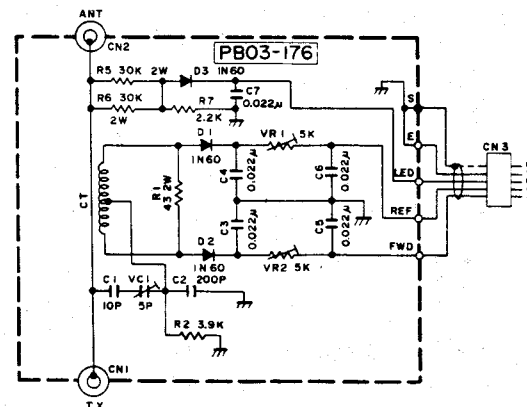


Coupler section

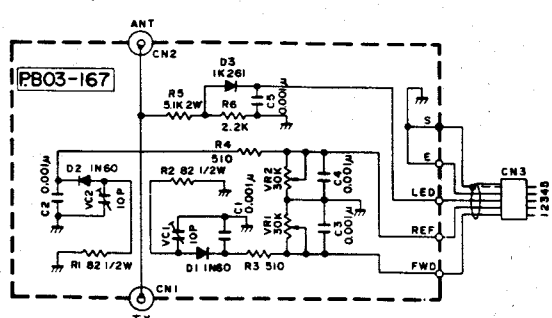
SWC-1 (SW-200A)



SWC-3 (SW-2000)



SWC-2 (SW-200B)



SW-200/2000

SW-200/2000 ADJUSTMENT

Power meter adjustment

- Apply a DC voltage which is the same as the output voltage of the coupler and adjust the power meter reading.

Preparation

- Coupler selector A
- Coupler switch SWC-3 side (For SW-200 only)
- PEP/AVG switch AVG

Measuring instruments

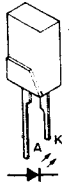
- Voltmeter Digital Voltmeter
- DC variable power supply 0-12V DC

() : SW-2000

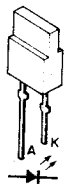
Power range (W)		Condition	Adjustment		Specification		
		Set voltage (V)	Part	Method			
FWD	20 (200)	<p>V: Digital voltmeter</p>	Vf: 2.35 (2.35)	VR1	Full scale	Within ±5%*	
	200 (2K)		Vf: 1.61 (1.61)		Check		10 (100) W
			Vf: 7.80 (10.12)	VR2	Full scale		
	REF		10 (100)		Vr: 1.58 (1.35)		VR3
100 (1K)		Vr: 1.09 (0.94)			Check		5 (50) W
		Vr: 5.48 (6.64)	VR4		Full scale		
		Vr: 3.88 (4.70)			Check		50 (500) W

Adjustment parts locations *If the measured value is not as specified, adjust so the error is within the specified value.

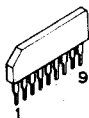
SEL1720Y
SEL1120R



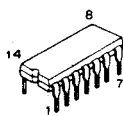
TLR205



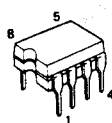
LA3210



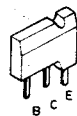
LM358N



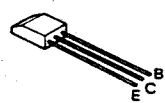
HD14011BP
TC4013BP



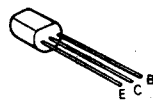
2SD661T/U



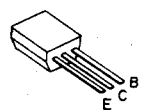
2SC458



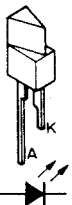
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2SC1627
2SC1815



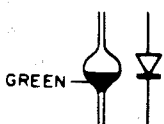
2SA1048



SEL1334G
SEL1334R



MV-13



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