

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 CW 300W PEP 400W	100W 150W 200W	HF 1KW VHF 300W 1.5KW 450W 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 68 (2.68),	H 32 (1.26),	D 52 (2.05)
Weight	Approx. 260g (0.6lbs)		

Display section

	SW-200A	SW-200B	SW-2000
Power measurement range	FWD 0-20, 200W REF 0-10, 100W		0-200, 2000W 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	- 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 196 (7.72),	H 63 (2.48),	D 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) SW-200	S1	1
S29-2408-08	N	Rotary switch (COUPLER) SW-2000	S1	1
S33-2404-08	N	Lever switch	S202-204	3
S33-4401-08	N	Slide switch (Rear panel) SW-2000	S401-403	3
S33-4403-08	N	Lever switch (POW-CAL-SWR)	S201	1

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.

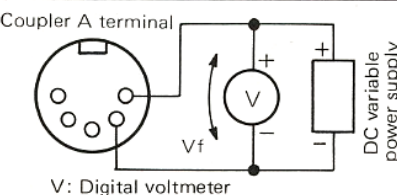
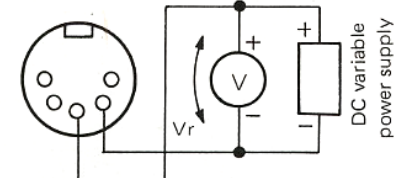
Preparation

Coupler selector A
Coupler switch SWC-3 side (For SW-2000 only)
PEP/AVG switch AVG

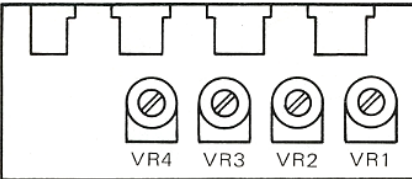
Measuring instruments

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)	 V: Digital voltmeter	Vf: 2.35 (2.35)	VR1	Full scale	Within ±5%*		
			Vf: 1.61 (1.61)		Check		10 (100) W	
	200 (2K)		Vf: 7.80 (10.12)	VR2	Full scale		100 (1K) W	
			Vf: 5.45 (6.91)		Check			
REF	10 (100)		Vr: 1.58 (1.35)	VR3	Full scale		5 (50) W	
			Vr: 1.09 (0.94)		Check			
	100 (1K)		Vr: 5.48 (6.64)	VR4	Full scale			50 (500) W
			Vr: 3.88 (4.70)		Check			

Adjustment parts locations

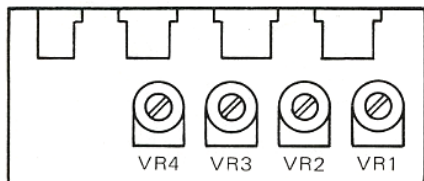


VR4 VR3 VR2 VR1

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

Adjustment parts locations

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



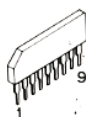
SEL1720Y
SEL1120R



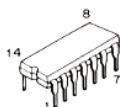
TLR205



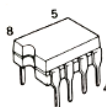
LA3210



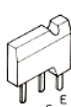
LM358N



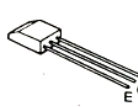
HD14011BP
TC4013BP



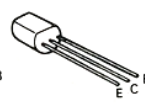
2SD661T/U



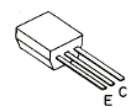
2SC458



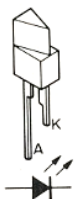
2SA1015
2SC1627
2SC1815



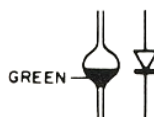
2SA1048



SEL1334G
SEL1334R



MV-13



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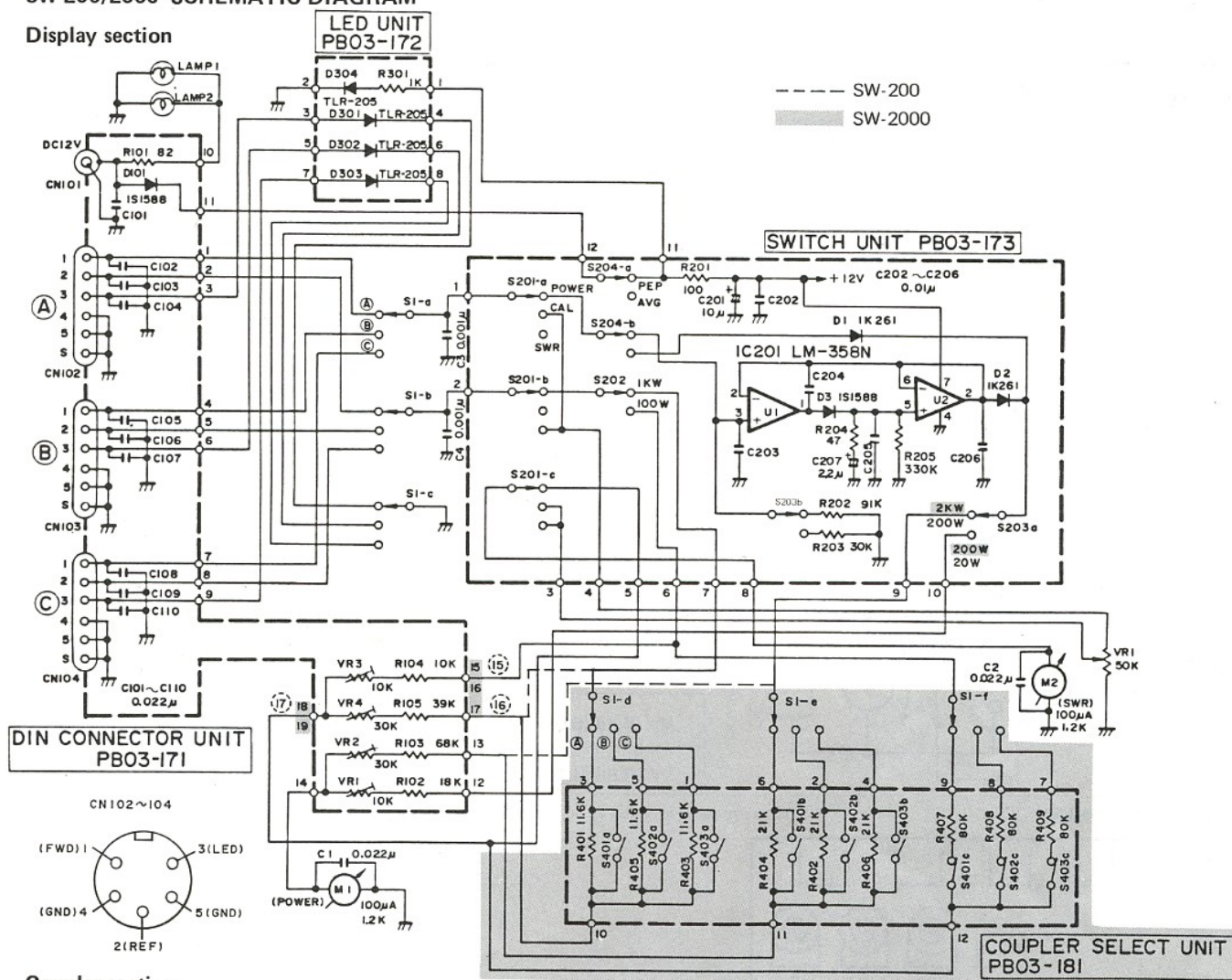
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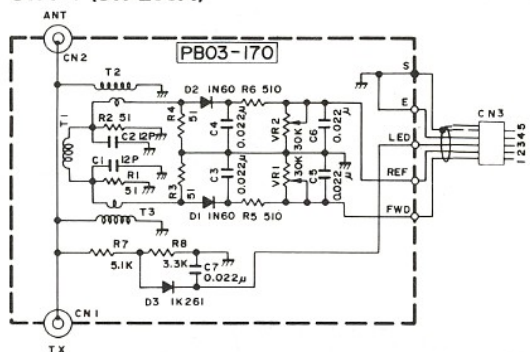
SW-200/2000 SCHEMATIC DIAGRAM

Display section

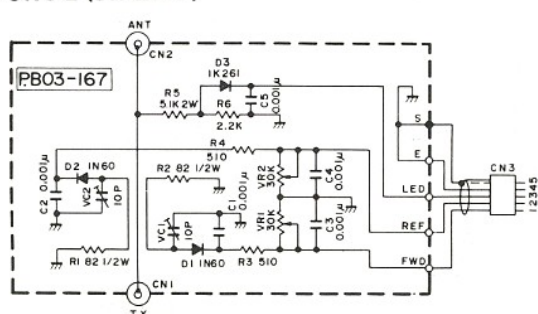


Coupler section

SWC-1 (SW-200A)



SWC-2 (SW-200B)



SWC-3 (SW-2000)

