

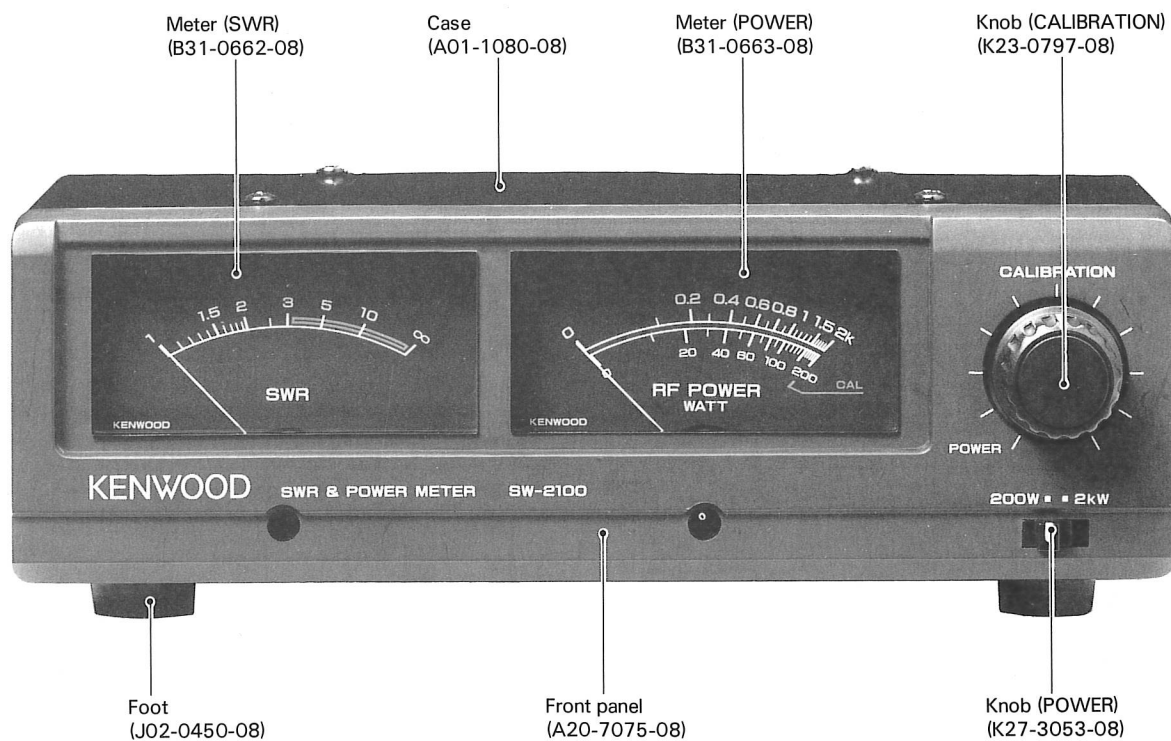
SWR & POWER METER

SW-2100

SERVICE MANUAL

KENWOOD

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B51-8011-00(B)799



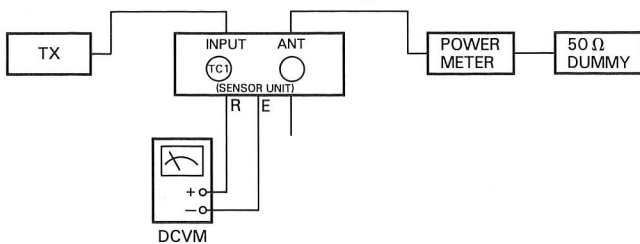
ADJUSTMENT

1. Preliminary adjustment of the sensor unit

Conditions:

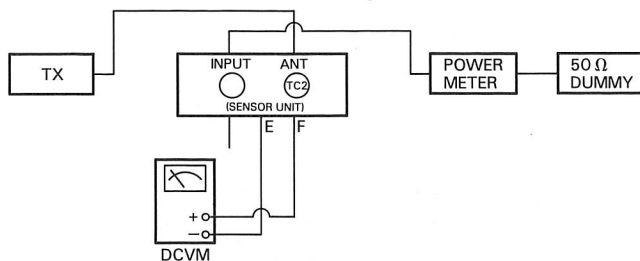
- A) Disconnect the leads from the F, R, and E terminals of the control unit.
- B) Frequency: 7.050 MHz.
- C) TX output: 25 to 50 W
- D) Mode: CW
- 1) Adjust TC1 of the sensor unit to minimize the voltage at the R terminal.

Connection diagram



- 2) Adjust TC2 of the sensor unit to minimize the voltage at the F terminal.

Connection diagram



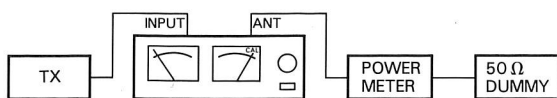
- 3) Finely adjust TC2 until the voltage shown on the DCVM at a transmit frequency of 1.9 MHz is equal to the voltage at a transmit frequency of 29.5 MHz under the condition described for adjustment 2).
- 4) Attach the leads to the F, R, and E terminals of the control unit.

2. SWR meter adjustment

Conditions:

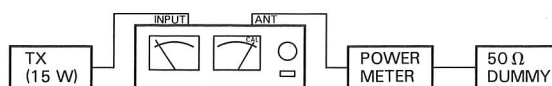
- A) Frequency: 7.050 MHz
- B) TX output: Approx. 15 to 25 W
- C) Mode: CW

Connection diagram



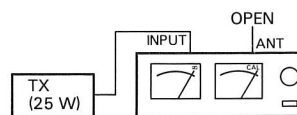
- A) Transmitter: TX
- B) Turn the CALIBRATION knob clockwise until the pointer on the RF power meter indicates CAL.
- C) Make sure that the pointer on the SWR meter does not move.

Connection diagram



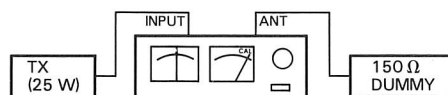
- A) Transmitter: TX
- B) Turn the CALIBRATION knob fully clockwise and adjust VR2 to set the pointer on the RF power meter to CAL.

Connection diagram



- A) Transmitter: TX
- B) Turn the CALIBRATION knob to set the pointer on the RF power meter to CAL.
- C) Adjust VR1 until the SWR meter reads ∞ (fullscale deflection).

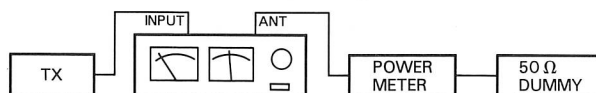
Connection diagram



- A) Transmitter: TX
- B) Finely adjust VR1 until the SWR meter reads 3.

3. Power meter adjustment

Connection diagram



1) 200 W range adjustment

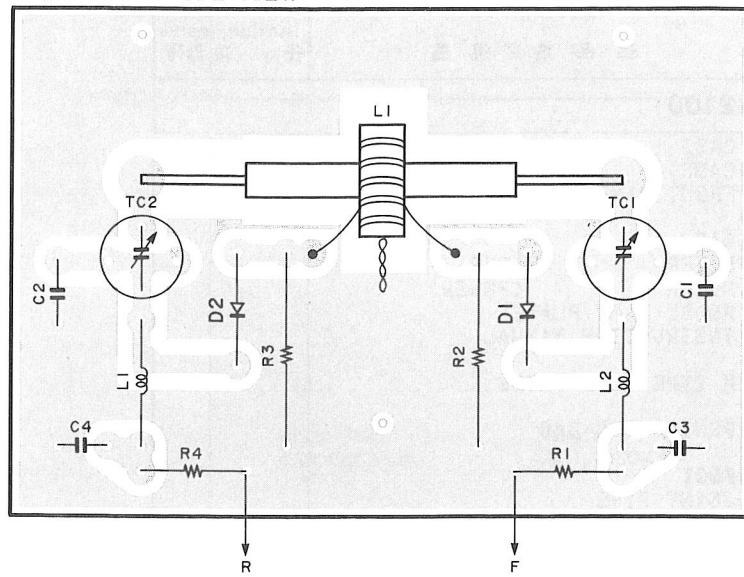
- A) Transmitter: Frequency: 14.150 MHz
Mode: CW
Output: 100 W
- B) Power changeover switch: 200 W
- C) Adjust VR4 until the power meter reads 100.

2) 2-kW range adjustment

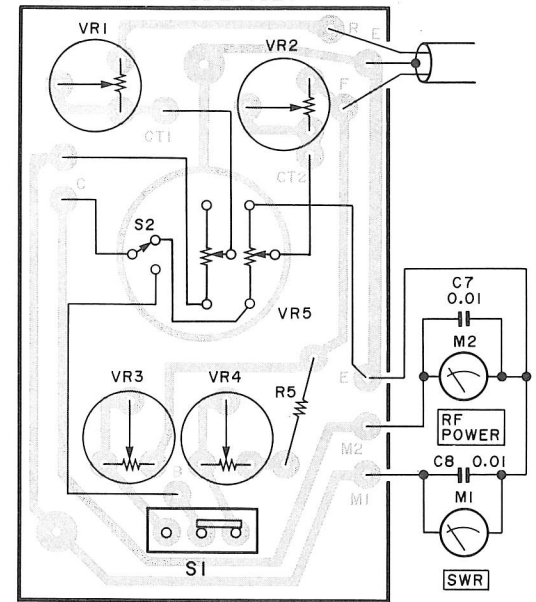
- A) Transmitter: Frequency: 14.150 MHz
Mode: CW
Output: 400 W
- B) Power changeover switch: 2 kW
- C) Adjust VR3 until the power meter reads 0.4.

PC BOARD/SCHEMATIC DIAGRAM

SENSOR UNIT (W02-0872-08)
COMPONENT SIDE VIEW

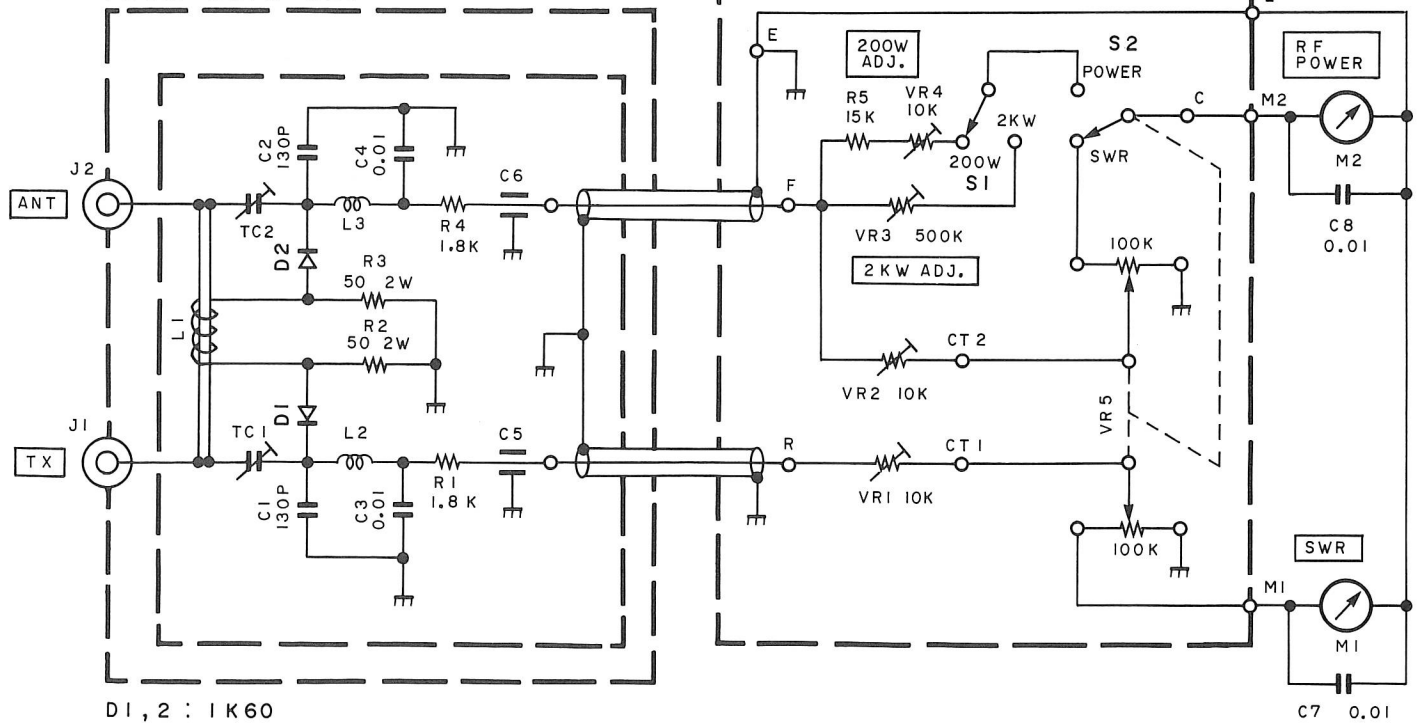


CONTROL UNIT (W02-0873-08)
COMPONENT SIDE VIEW



SENSOR UNIT (W02-0872-08)

CONTROL UNIT (W02-0873-08)



D1, 2 : 1K60

C7 0.01

SW - 2100 (K)

SW-2100

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.


Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考	
SW-2100							
VR5 S1 D1, 2		*	A01-1079-08	CASE (BOTTOM)			
		*	A01-1080-08	CASE (TOP)			
		*	A20-7075-08	FRONT PANEL			
		*	B09-0317-08	CAP			
		*	B31-0662-08	METER (SWR)			
		*	B31-0663-08	METER (POWER)			
		*	B40-3997-08	MODEL NAME PLATE			
		*	B50-8310-08	INSTRUCTION MANUAL			
				E04-0152-05	M TYPE RECEPTACLE		
				H25-0003-03	PROTECTION BAG		
		*	J02-0450-08	FOOT			
		*	J31-0533-08	JOINT PYPE			
		*	K23-0797-08	KNOB (CALIBRATION)			
		*	K27-3053-08	KNOB (POWER)			
		*	N14-0544-08	SPEED NUT			
		*	R06-9408-08	POTENTIOMETER(100K X2)			
		*	S31-2417-08	SOLID SWITCH			
				1K60	DIODE		
		*	W02-0872-08	SENSOR UNIT			
		*	W02-0873-08	CONTROL UNIT			

E: Scandinavia & Europe K: USA P: Canada

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

 indicates safety critical components.

SPECIFICATIONS

Dimensions..... 208W × 66H × 85D mm

Weight..... Approx. 850 g

Connector..... M type (SO-239)

Impedance..... 50 ~ 52 Ω

Frequency range..... 1.8 ~ 30 MHz

Feed through power

overload..... 2000 W/PEP

Insertion loss..... Less than 0.3 dB

Residual SWR..... Within 1.2

Power measurement

Range..... 0 ~ 200 W,

0 ~ 2000 W

Accuracy..... 1.8 ~ 30 MHz,

10% (full scale)

Minimum power for SWR

measurement..... Approx. 30 W

Circuit and ratings are subject to change without notice due to advancement in technology.

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