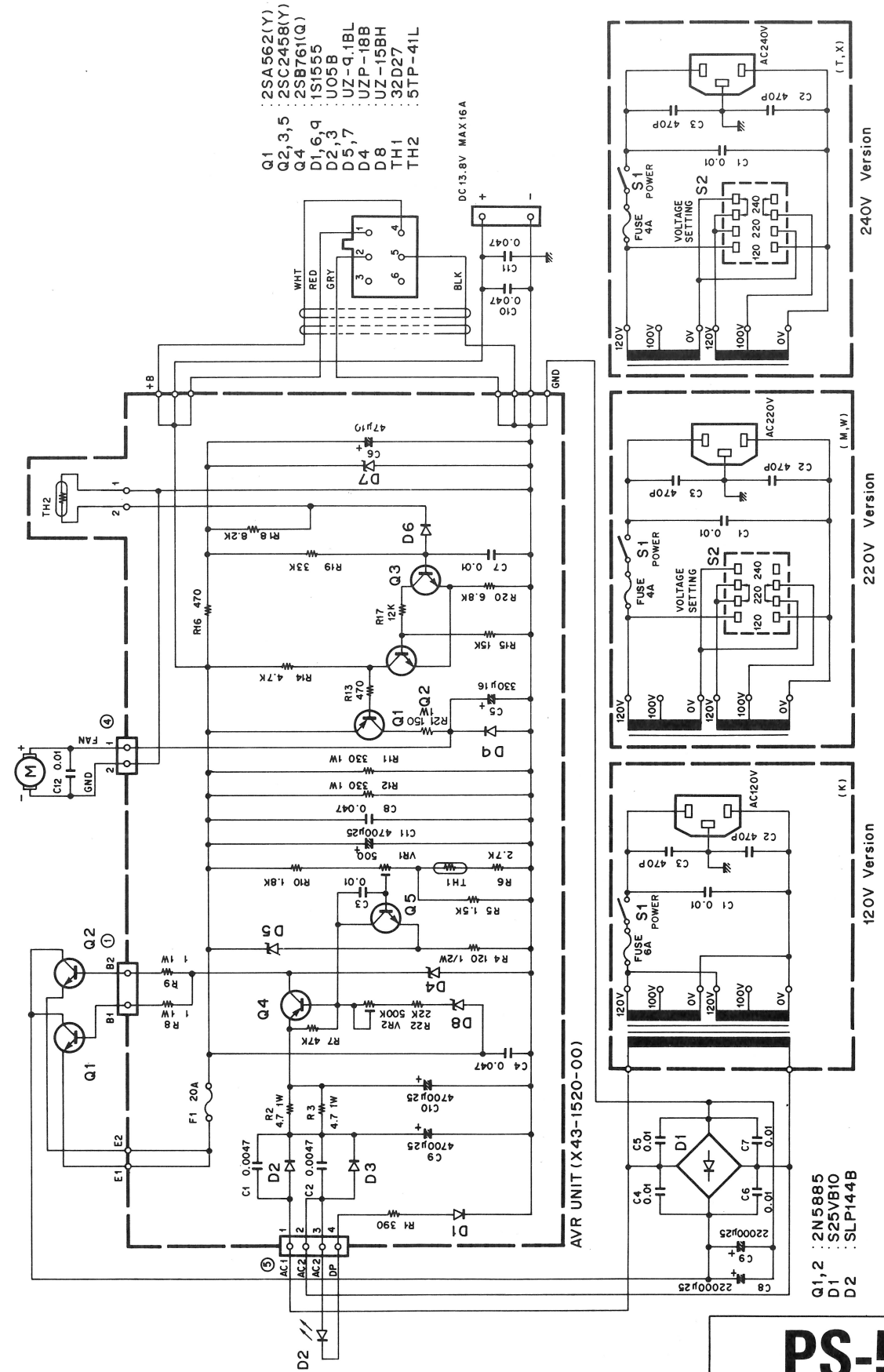


**PS-50
SPECIFICATIONS**

Input voltage: 120/220/240V AC ± 10% 50/60Hz
Output voltage: 13.8V DC (standard voltage)
Output current: 20 A (25% duty cycle) 15A (50% duty cycle)
Continuous load current: 16 A max. (including external output terminal)
Output voltage fluctuation: Within ±0.7 V at AC 120V, 220V, 240V ± 10%
 (Load current: 15A)
 Within 0.7 V between 2-15 A load.
 (No-load output voltage: Less than 16V at 120V/220/240V. AC)
Ripple voltage: Less than 20 mV (rms) at 13.8 V, output current 15 A.
Power consumption: Approx. 480 W (at 120/220/240V AC. 13.8V DC, 20A)
Dimensions: 173 (6-13/16) W × 95(3-3/4) H × 96 (11-13/50) D mm (inch)
Weight: Approx. 7.2 kg (15.4 lbs.)

SCHEMATIC DIAGRAM

* Circuit design and ratings are subject to change for improvement without notice.



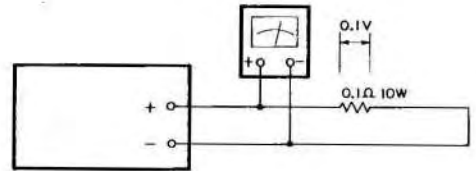
PS-50
KENWOOD

PS-50 (K,M,T,W,X)

ADJUSTMENT

1. OUTPUT VOLTAGE

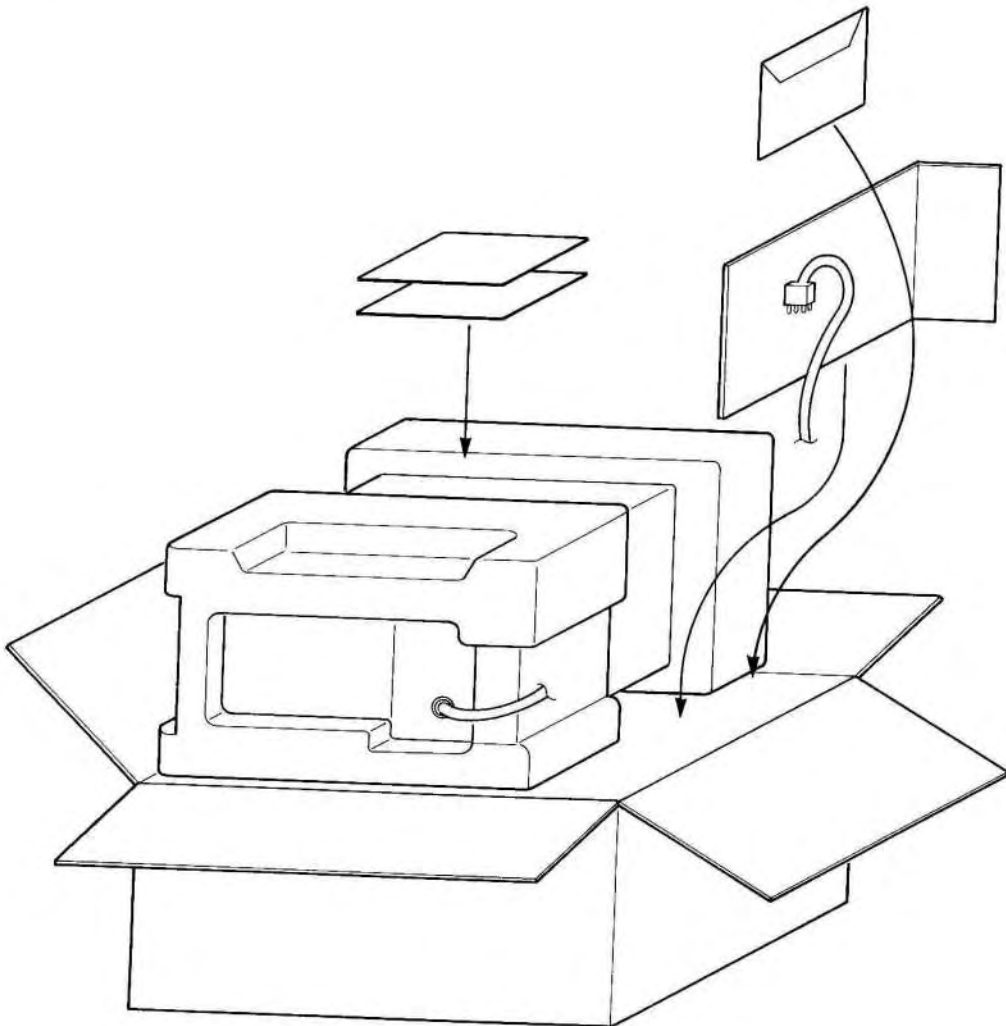
- 1) Connect the load and set the current to 20A.
- 2) Adjust output voltage to $13.8\text{ V} \pm 0.4\text{ V}$ with VR1.



2. PROTECTION CIRCUIT

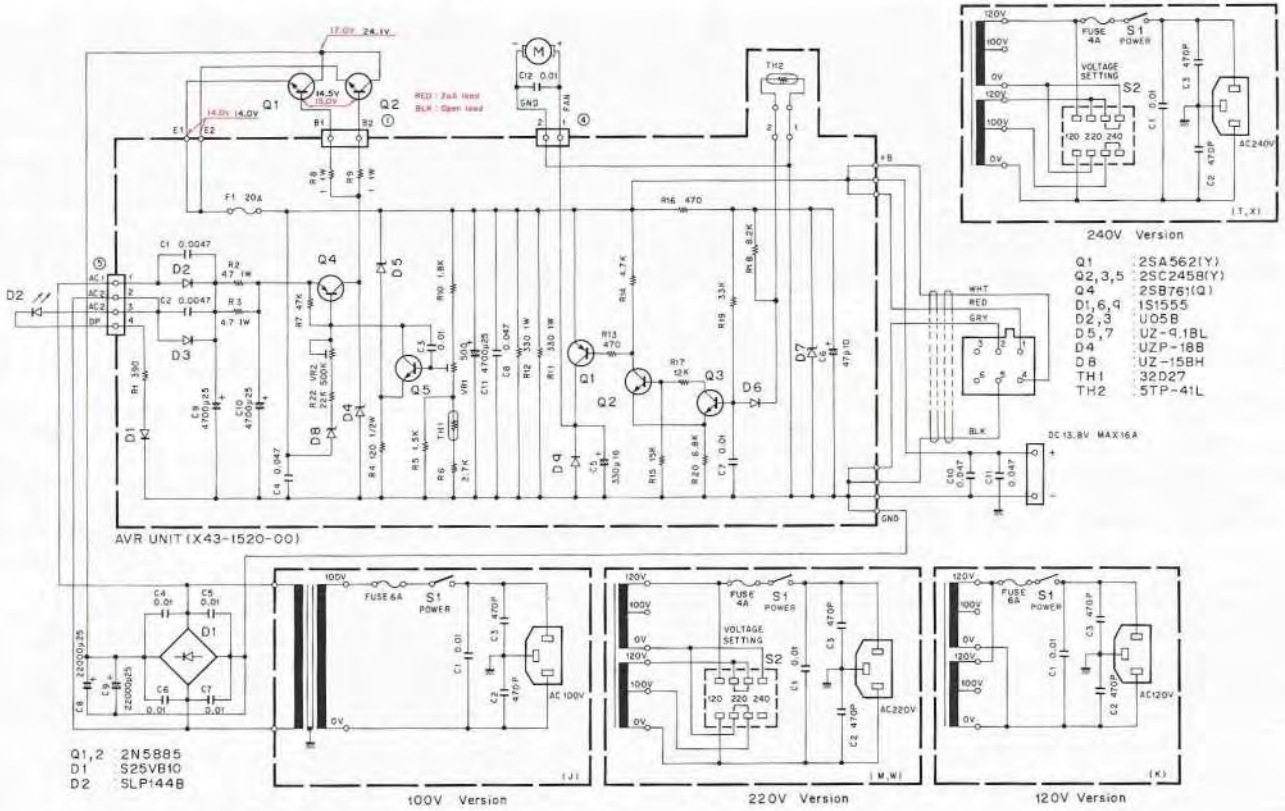
- 1) POWER SW: OFF
- 2) Connect a $0.1\ \Omega$ 10 W resistor.
- 3) POWER SW: ON
- 4) Adjust VR2 so that 0.1V DC is obtained.

PACKING

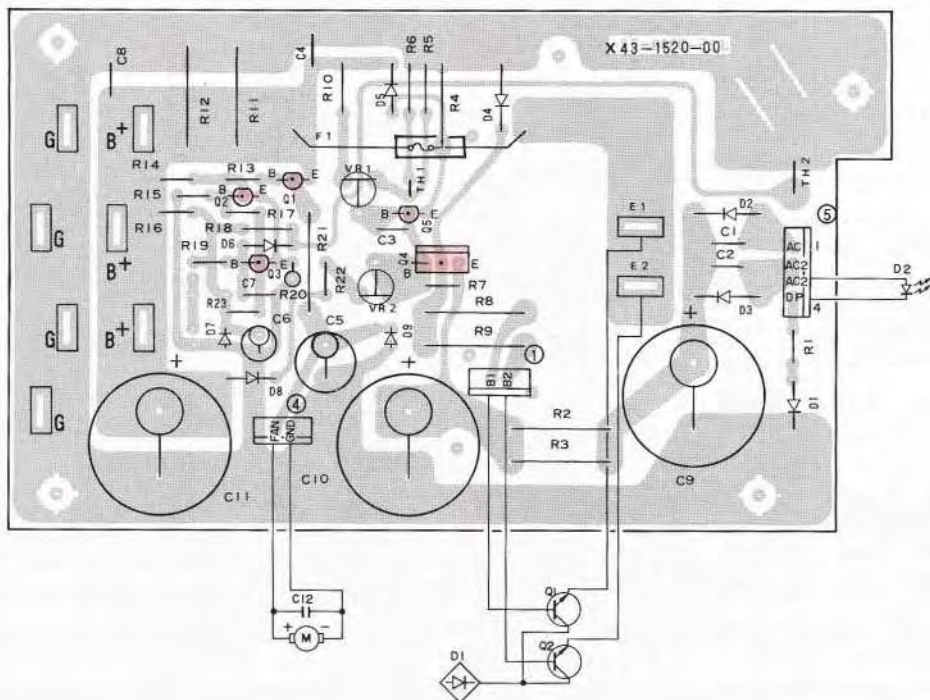


SCHEMATIC DIAGRAM/PC BOARD

SCHEMATIC DIAGRAM (X43-1520-00)



PC BOARD VIEW (X43-1520-00) AVR UNIT Component side view



PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

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

Telle ohne Parts No. werden nicht geliefert.

PARTS LIST

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
PS-50						
-		*	A01-1000-02	CASE (UPPER)		
-		*	A01-1001-12	CASE (LOWER)		
-		*	A01-1002-12	CASE (LOWER)		
-		*	A20-2561-03	PANEL ASSY	KMW	
-		*	A20-2561-03	PANEL ASSY	X	
-		*	A20-2562-03	PANEL ASSY	T	
-		*	A23-1491-03	REAR PANEL		
-		*	B40-3640-04	MODEL NAME PLATE	K	
-		*	B40-3641-04	MODEL NAME PLATE	MWX	
-		*	B40-3642-04	MODEL NAME PLATE	T	
-			B41-0627-14	CAUTION LABEL (220V)	MW	
-			B41-0630-04	CAUTION LABEL (240V)	TX	
-			B42-1733-14	CAUTION LABEL (120V/220V/240V)	MTW	
-			B42-1733-14	CAUTION LABEL (120V/220V/240V)	X	
-			B42-1770-04	LABEL (FUSE, 4A)	MTW	
-			B42-1770-04	LABEL (FUSE, 4A)	X	
-		*	B42-2430-04	CAUTION LABEL (120V)	K	
-			B46-0411-00	WARRANTY CARD	K	
-		*	B50-8051-00	INSTRUCTION MANUAL	KMW	
-		*	B50-8051-00	INSTRUCTION MANUAL	X	
-		*	B50-8052-00	INSTRUCTION MANUAL	T	
C1			C91-0647-05	CERAMIC 0.01UF P		
C2 ,3			C91-0496-05	CERAMIC 470PF K		
C4 -7			CK45E2H103P	CERAMIC 0.010UF P		
C8 ,9		*	C90-2034-05	ELECTRO 22000UF 25WV		
C10 ,11			CK45F1H473Z	CERAMIC 0.047UF Z		
C12			CK45F1H103Z	CERAMIC 0.010UF Z		
-			E18-0351-05	SOCKET		
-			E20-0283-05	TERMINAL BOARD		
-			E30-1639-05	AC POWER CORD		
-			E30-1643-15	AC POWER CORD	KM	
-			E30-1644-15	AC POWER CORD	T	
-			E30-1645-05	AC POWER CORD	W	
-			E30-1647-05	AC POWER CORD	X	
-			F01-0939-03	HEAT SINK		
-			F05-4022-05	FUSE (4A)	MTW	
-			F05-4022-05	FUSE (4A)	X	
-			F05-6021-05	FUSE (6A)		
-			F09-0410-04	HEAD PROTECTOR (FAN)		
-			G02-0549-04	LEAF SPRING		
-		*	H01-4693-04	ITEM CARTON BOX	KMW	
-		*	H01-4693-04	ITEM CARTON BOX	X	
-		*	H01-4694-04	ITEM CARTON BOX	T	
-			H03-2281-04	CARTON BOX (OUTSIDE)		
-			H10-2567-02	POLYSTYRENE FOAMED FIXTURE (F)		
-			H10-2568-02	POLYSTYRENE FOAMED FIXTURE (R)		
-		*	H12-1389-04	PACKING FIXTURE		
-		*	H20-1430-03	PROTECTION COVER		
-			H25-0105-04	PROTECTION BAG		
-			J02-0323-05	FOOT (F)		

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-			J02-0442-04	F00T (R)		
-			J02-0443-04	F00T (/3.2)		
-			J13-0033-15	FUSE HOLDER		
-			J21-4153-14	MOUNTING HARDWARE (MOTOR)		
-		*	J21-4179-04	MOUNTING HARDWARE (ELECTRO)		
-			J21-4180-03	MOUNTING HARDWARE (FAN)		
-		*	J21-4181-14	MOUNTING HARDWARE (P. T)		
-		*	J30-0542-04	SPACER		
-			J42-0403-05	POWER CORD BUSHING		
-			J61-0408-05	WIRE BAND		
-			K29-0758-04	PUSH KNOB		
-			L01-8286-05	POWER TRANSFORMER		
-			N09-0256-05	SCREW		
-			N09-0658-04	SCREW		
-			N10-2030-46	HEXAGON NUT		
-			N15-1030-46	FLAT WASHER		
-			N30-2604-46	PAN HEAD MACHINE SCREW		
-			N30-3014-46	PAN HEAD MACHINE SCREW		
-			N30-4016-46	PAN HEAD MACHINE SCREW		
-			N33-3006-41	OVAL HEAD MACHINE SCREW		
-			N35-3006-41	BINDING HEAD MACHINE SCREW		
-			N35-3008-41	BINDING HEAD MACHINE SCREW		
-			N87-3006-41	BRAZIER HEAD TAPTITE SCREW		
-			N87-3006-46	BRAZIER HEAD TAPTITE SCREW		
-			N87-3012-45	BRAZIER HEAD TAPTITE SCREW		
-			N87-3014-46	BRAZIER HEAD TAPTITE SCREW		
-			N88-3008-46	FLAT HEAD TAPTITE SCREW		
S1			S40-1405-05	PUSH SWITCH (POWER)	MTWX	
S2			S29-2406-05	ROTARY SWITCH		
-			T42-0302-05	DC MOTOR ASSY		
D1			SLP144B	LED		
D1			S25VB10	DIODE		
Q1	.2		2N5885	TRANSISTOR		
-		*	X43-1520-00	POWER SUPPLY PCB ASSY		
X43-1520-00						
C1	.2		CK45E2H472P	CERAMIC 4700PF P		
C3			CK45F1H103Z	CERAMIC 0.010UF Z		
C4			CK45F1H473Z	CERAMIC 0.047UF Z		
C5			CE04W1C331M	ELECTRO 330UF 16WV		
C6			CE04W1A470M	ELECTRO 47UF 10WV		
C7			CK45F1H103Z	CERAMIC 0.010UF Z		
C8			CK45F1H473Z	CERAMIC 0.047UF Z		
C9	-11		C90-0814-05	ELECTRO 4700UF 25WV		
-			E23-0462-05	TERMINAL		
MC1			E40-0273-05	PIN CONNECTOR		
MC4			E40-0273-05	PIN CONNECTOR		
MC5			E40-0473-05	PIN CONNECTOR		
F1			F05-2035-15	FUSE (20A)		
-			J42-0428-05	POWER CORD BUSHING		

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R2 ,3			RS14GB3A4R7J	FL-PROOF RS 4.7 J 1W		
R4			RD14DB2H121J	SMALL-RD 120 J 1/2W		
RB ,9			RS14GB3A010J	FL-PROOF RS 01 J 1W		
R11 ,12			RS14GB3A331J	FL-PROOF RS 330 J 1W		
R21			RS14GB3A151J	FL-PROOF RS 150 J 1W		
VR1			R12-1429-05	TRIMMING PØT. (500)		
VR2			R12-7408-05	TRIMMING PØT. (500K)		
D1			1S1555	DIØDE		
D2 ,3			U05B	DIØDE		
D4			UZP18B	ZENER DIØDE		
D5			UZ9.1BL	ZENER DIØDE		
D6			1S1555	DIØDE		
D7			UZ9.1BL	ZENER DIØDE		
D8			UZ15BH	ZENER DIØDE		
D9			1S1555	DIØDE		
Q1			2SA562(Y)	TRANSISTØR		
Q2 ,3			2SC2458(Y)	TRANSISTØR		
Q4			2SB761(Q)	TRANSISTØR		
Q5			2SC2458(Y)	TRANSISTØR		
TH1			32D27	THERMISTØR		
TH2			5TP41L	THERMISTØR		