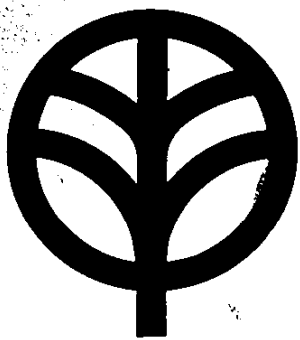


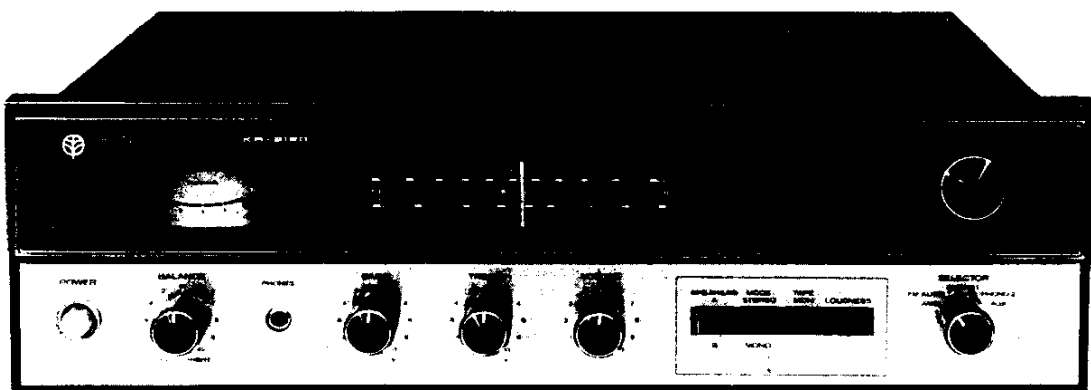


KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

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KR-2120



SOLID STATE AM-FM STEREO RECEIVER

PARTS DESCRIPTION LIST

MAIN CHASSIS (AF2K) SECTION						
Symbol No.	Description				Part No.	Remarks
PC BOARD						
—	TUNER (UA5406K)				X05-0006-10	
—	PRE, TONE & MAIN (UA1364J5)				X09-0003-05	
—	POWER SUPPLY				X00-0006-01	
CAPACITOR						
C101, 102	Mylar	0.056μF	±20%		CQ92M1H563M	
C301	Oil Impregnated	0.01μF	±20%		C90-0036-05	
C302	Electrolytic Tubular	100μF	3.15WV		CE04W0F101	
C303, 304	Oil Impregnated	0.01μF	±20%		CP02B2J103M	
RESISTOR						
R101	Insulated Carbon Film	5.6kΩ	±10%	1/4W	PD14BY2E562K	
R102	Insulated Carbon Film	5.6kΩ	±10%	1/4W	PD14CY2E562K	
R103	Insulated Carbon Film	6.8kΩ	±10%	1/4W	PD14BY2E682K	
R104	Insulated Carbon Film	10kΩ	±10%	1/4W	PD14CY2E103K	
R105	Insulated Carbon Film	6.8kΩ	±10%	1/4W	PD14CY2E682K	
R106	Insulated Carbon Film	100kΩ	±10%	1/4W	PD14BY2E104K	
R107	Insulated Carbon Film	390kΩ	±10%	1/4W	PD14BY2E394K	
R171	Fixed Carbon Composition	270Ω	±10%	1/2W	RC05GH2H271K	
R201	Insulated Carbon Film	5.6kΩ	±10%	1/4W	PD14BY2E562K	
R202	Insulated Carbon Film	5.6kΩ	±10%	1/4W	PD14CY2E562K	
R203	Insulated Carbon Film	6.8kΩ	±10%	1/4W	PD14BY2E682K	
R204	Insulated Carbon Film	10kΩ	±10%	1/4W	PD14CY2E103K	
R205	Insulated Carbon Film	6.8kΩ	±10%	1/4W	PD14CY2E682K	
R206	Insulated Carbon Film	100kΩ	±10%	1/4W	PD14BY2E104K	
R207	Insulated Carbon Film	390kΩ	±10%	1/4W	PD14BY2E394K	
R271	Fixed Carbon Composition	270Ω	±10%	1/2W	RC05GF2H271K	
R301	Fixed Carbon Composition	22Ω	±10%	1/2W	RC05GF2H220K	
R302	Fixed Carbon Composition	1MΩ	±10%	1/2W	RC05GF2H105K	
R303	Fixed Carbon Composition	1kΩ	±10%	1/2W	RC05GF2H102K	
POTENTIOMETER						
VR1	VOLUME	50kΩ(B)	dual		R06-4005-05	
VR2	BALANCE	100kΩ(W)	slide		R03-5017-05	
VR3	BASS	5kΩ(C)	dual		R08-2003-05	
VR4	TREBLE	5kΩ(C)	dual		R08-2003-05	
SWITCH/DIODE						
S1	SELECTOR (Rotary) F - 4 - 14 - 5				S04-4012-05	
S2	SPEAKERS	(four pushbutton)			S41-4001-05	
S3	MODE	(four pushbutton)			S41-4001-05	
S4	TAPE MONITOR	(four pushbutton)			S41-4001-05	
S5	LOUDNESS	(four pushbutton)			S41-4001-05	
S6	POWER	(pushbutton)			S39-1010-05	
S7	AC VOLTAGE SELECT	(slide)			S31-2004-05	
S8	PRE-MAIN SEPARATE	(slide)			S10-22D	
D1, 2	SW-05S					
MISCELLANEOUS						
—	Case	(K)			A01-0120-02	
—	Cabinet	(U)			A03-0063-02	
—	Chassis				A10-0220-01	

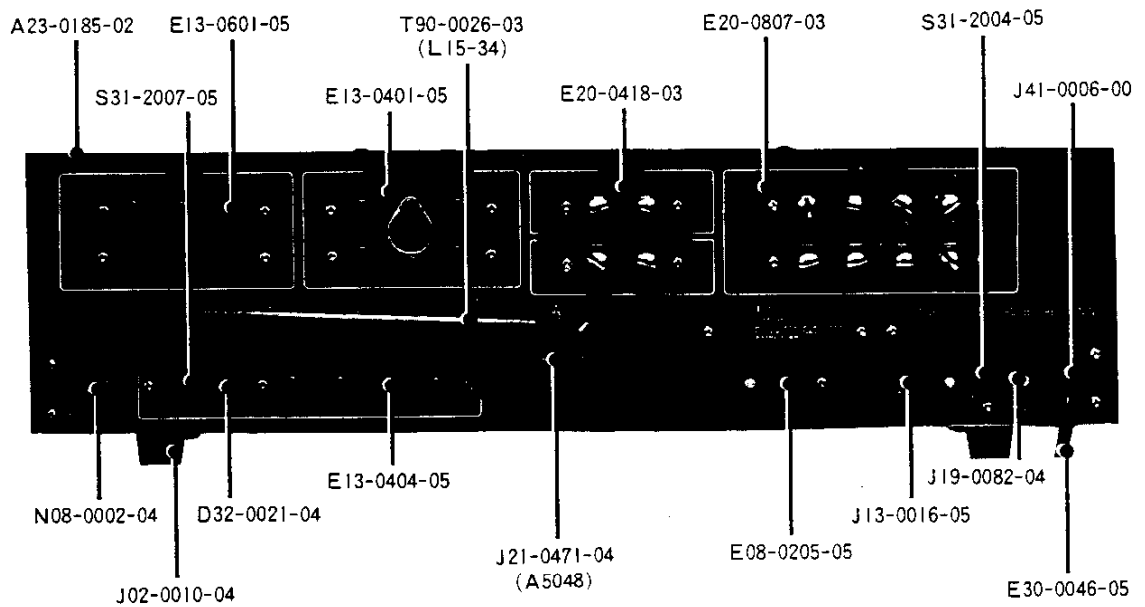
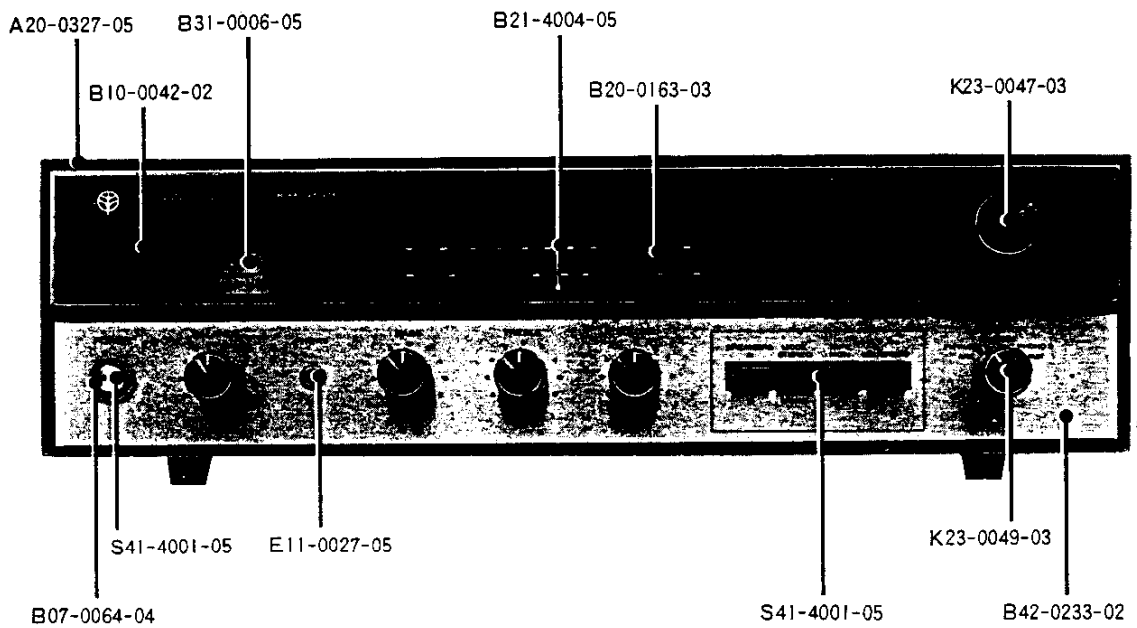
PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Remarks
—	Panel	A20-0327-05	
—	Sub-Panel	A22-0084-02	
—	Rear Panel	A23-0185-02	
—	Reflector (A)	A33-0009-03	
—	Sole Plate	A40-0067-03	
—	AMP Holder x 2	A3882	
—	ANT Holder	A5048	
—	METER Holder	A5107B	
—	Holey Plate (U)	B04-0017-14	
—	Ring	B07-0070-04	
—	Sticker	B09-190	
—	Caution Sticker	B09-192	
—	Front Glass	B10-0042-02	
—	Filter	B19-0088-03	
—	Dial	B20-0163-13	
—	Dial Pointer Assembly	B21-4004-15	
P.L	Pilot Lamp (Fuse Type) x 4	B30-0015-15	
P.L	Pilot Lamp (for BEACON)	B30-0026-15	
M	TUNING meter	B31-0006-05	
—	Certification	B42-0009-04	
—	Sticker	B42-0161-04	
—	Caution Sticker	B42-0163-04	
—	Name Plate	B42-0233-02	
—	Warranty Card	B46-0013-00	
—	Warranty Card (U)	B46-0022-00	
—	Instruction Manual (K)	B50-0504-00	
—	Instruction Manual (U)	B50-0506-00	
—	Schematic Diagram	B52-0079-00	
—	Caution Card (Power Supply) (U)	B58-0003-00	
—	Caution Card (Case) (K)	B58-0043-00	
—	Caution Card (Power Supply) (U)	B58-0101-00	
—	Address (U)	B59-0018-00	
—	Flywheel	D01-0008-05	
—	Pulley	D15-0034-05	
—	Dial Shaft	D20-0079-03	
—	Switch Stopper	D32-0021-04	
—	AC Outlet	E08-0205-05	
J	4P Pin Jack with DIN Connector	E13-0401-05	
J	4P Pin Jack	E13-0404-05	
J	6P Pin Jack	E13-0601-05	
—	Pin Plug x 4 (U)	E14-0101-05	
—	ANT Terminal	E20-0418-03	
—	Output Terminal	E20-0807-03	
J	Head Phone Jack	E11-0027-05	
—	Power Cord	E30-0046-05	
F	Fuse (1A)	F05-1023-05	
—	Dial Cover (U)	F07-0101-03	
—	Shield Plate	F10-0051-04	
—	Felt (with Sticker)	F15-0059-04	
—	Blind Plate (for METER)	F19-0048-03	
—	Fuse Holder	F29-0005-04	
—	Slider	F99-0005-04	
—	Dial Spring	G01-0044-04	

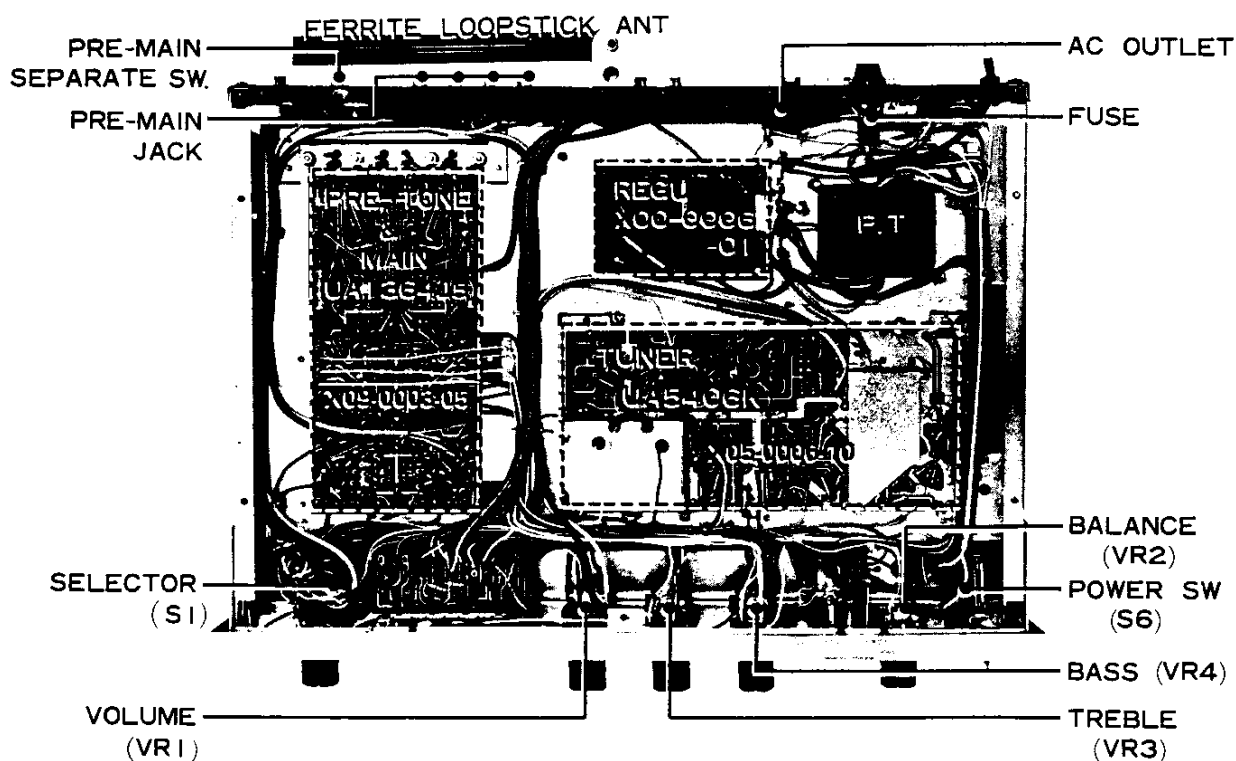
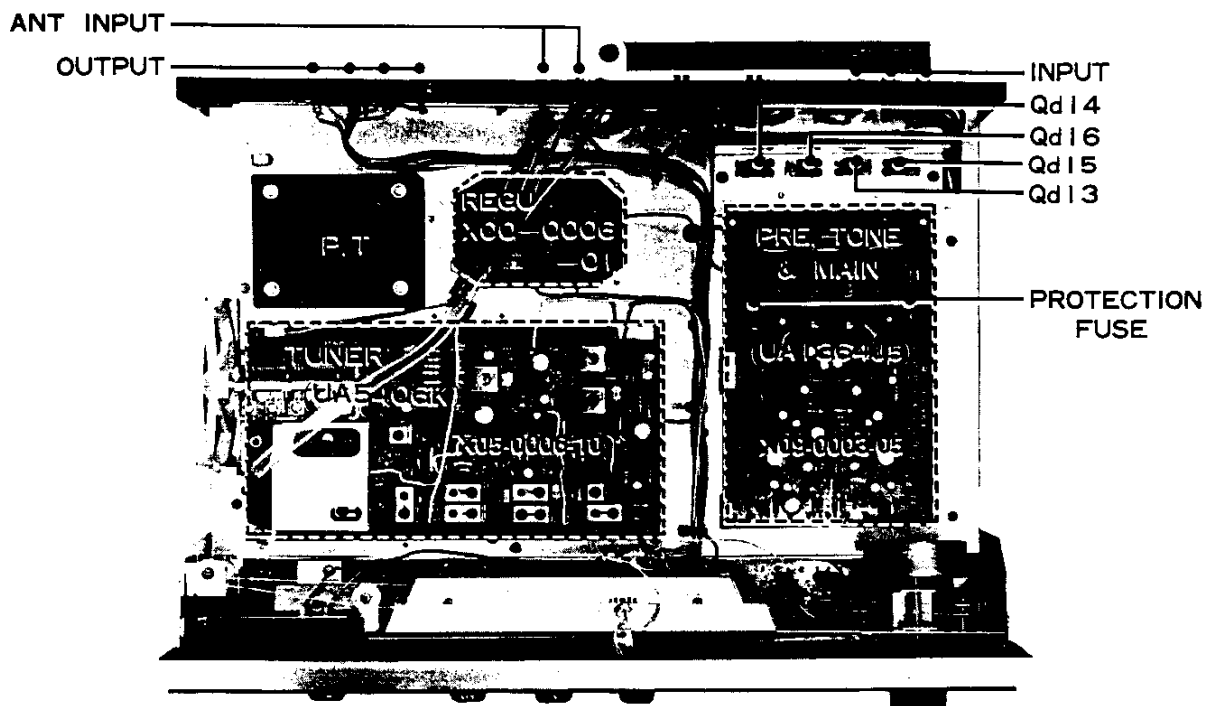
PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Remarks
—	Corrugated Cardboard Case	H01-0511-03	
—	Corrugated Cardboard Case (K)	H02-0114-03	
—	Legs x 4	J02-0010-04	
—	Fuse Holder	J13-0016-05	
—	Fuse Holder	J13-0023-05	
—	Front Glass Holder	J19-0062-04	
—	Dial Holder	J19-0064-04	
—	Front Glass Holder	J19-0089-04	
—	Front Glass Holder	J19-0090-04	
—	Front Glass Holder	J19-0091-04	
—	Dial Metal Fittings	J21-0586-04	
—	Meter Holder	J21-0679-03	
—	Switch Holder	J21-0703-04	
—	Knob (TUNING)	K23-0047-03	
—	Knob (BALANCE, BASS, SELECTOR, TREBLE, VOLUME)	K23-0049-03	
P. T.	Power Transformer	L03-0004-15	
—	Decorated Screw x 4 (K)	N08-0003-04	
—	Decorated Screw x 4 (U)	N08-0005-04	
—	FM Antenna	T90-0002-05	
—	AM Antenna	T90-0026-05	
<i>In North America leave out the parts of "U".</i> <i>In other area do out the parts of "K".</i>			
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EXTERNAL VIEW



CHASSIS TOP & BOTTOM VIEW



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PROCEDURE FOR REPLACING OUTPUT TRANSISTOR

SYMPTOMS:

- A. When there is load hum at the speakers.
- B. When there is no output at all.
- C. When you cannot get rated output.

REPLACING METHOD:

Replace all the four transistors, 2SC1060.

TESTING PROCEDURES:

Until replacement is completed, do not operate the unit without first testing.

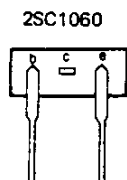
Perform the test according to the following procedures.

1. Using variable transformer, lower the AC line voltage to approximately 30 V.
2. Also measure the voltage between the chassis and Collector of the power transistor Qd15 or Qd16. If a tester indicates approximately 24 V, it is normal.
3. Using a tester, measure the voltage between the chassis and Collector of the power transistor Qd13 or Qd14. If a tester indicates approximately 47 V, it is normal.

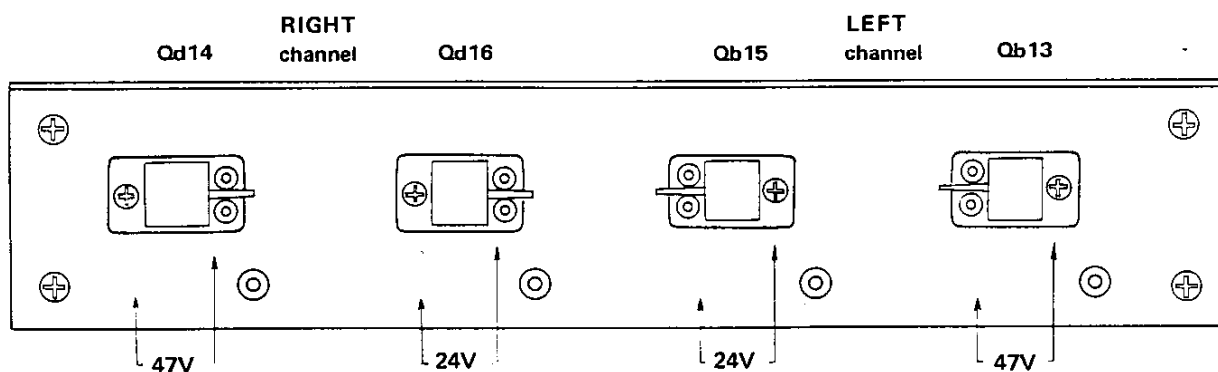
PROTECTION ADJUSTMENT PROCEDURES:

When terminal of speaker is shorted, fuse (1A) in Printed Circuit Board (UA1364J5) is gone. In this case, replace it with new.

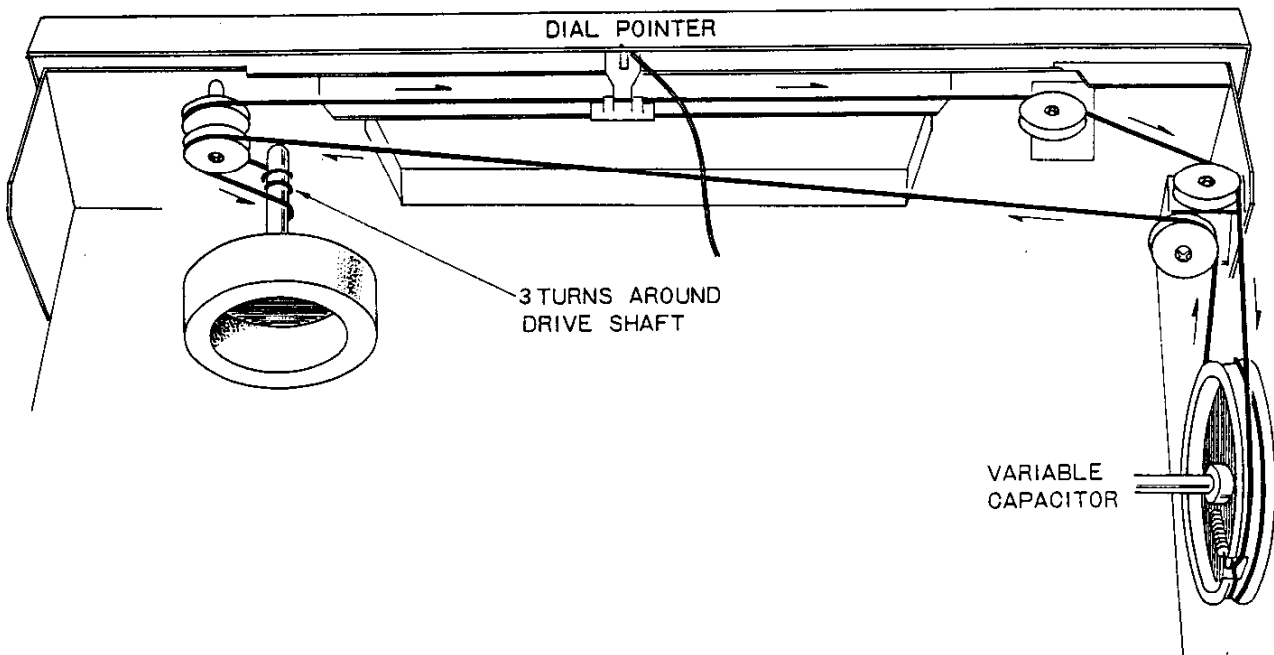
BOTTOM VIEW OF TRANSISTOR



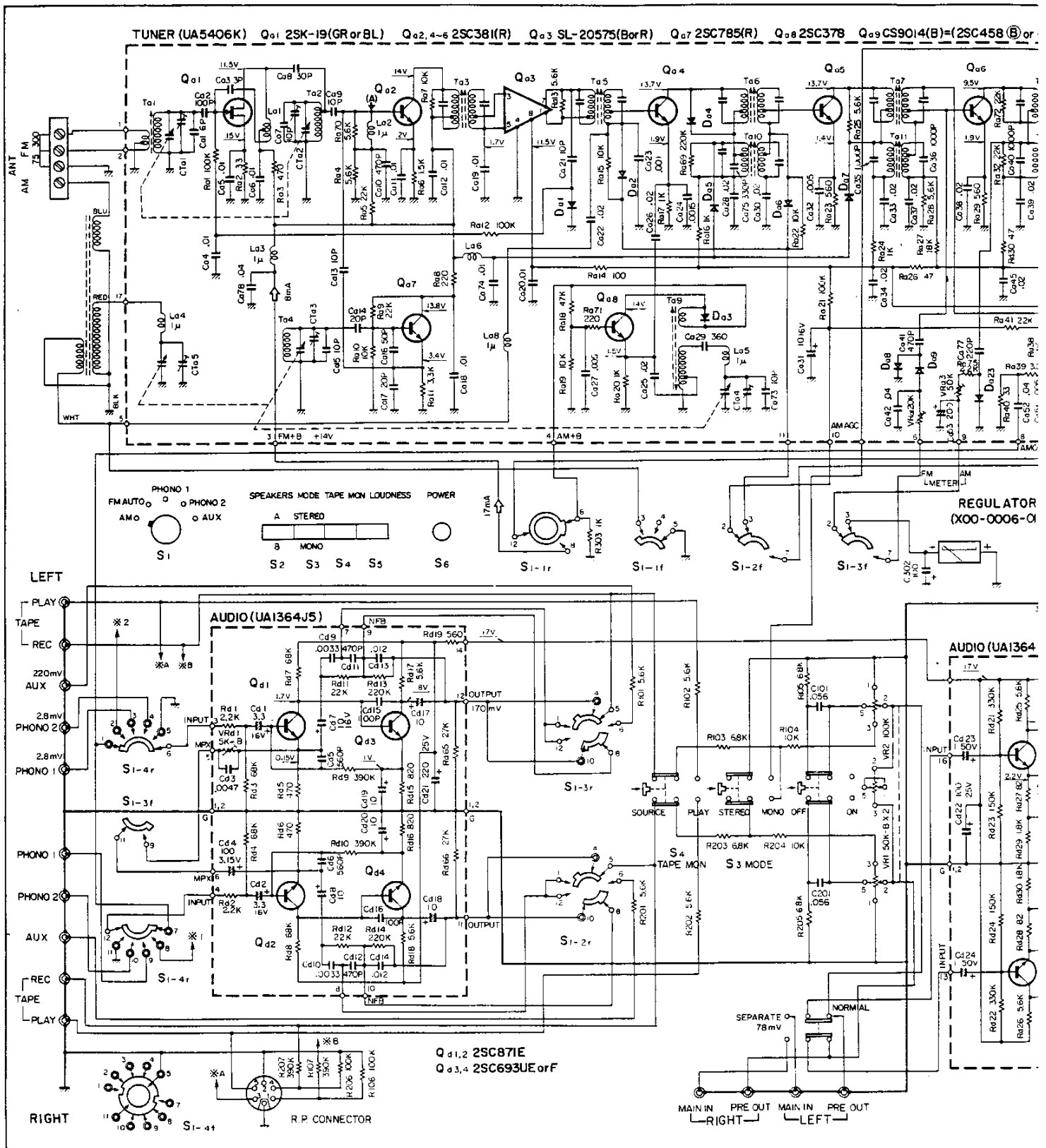
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DIAL CORD STRINGING

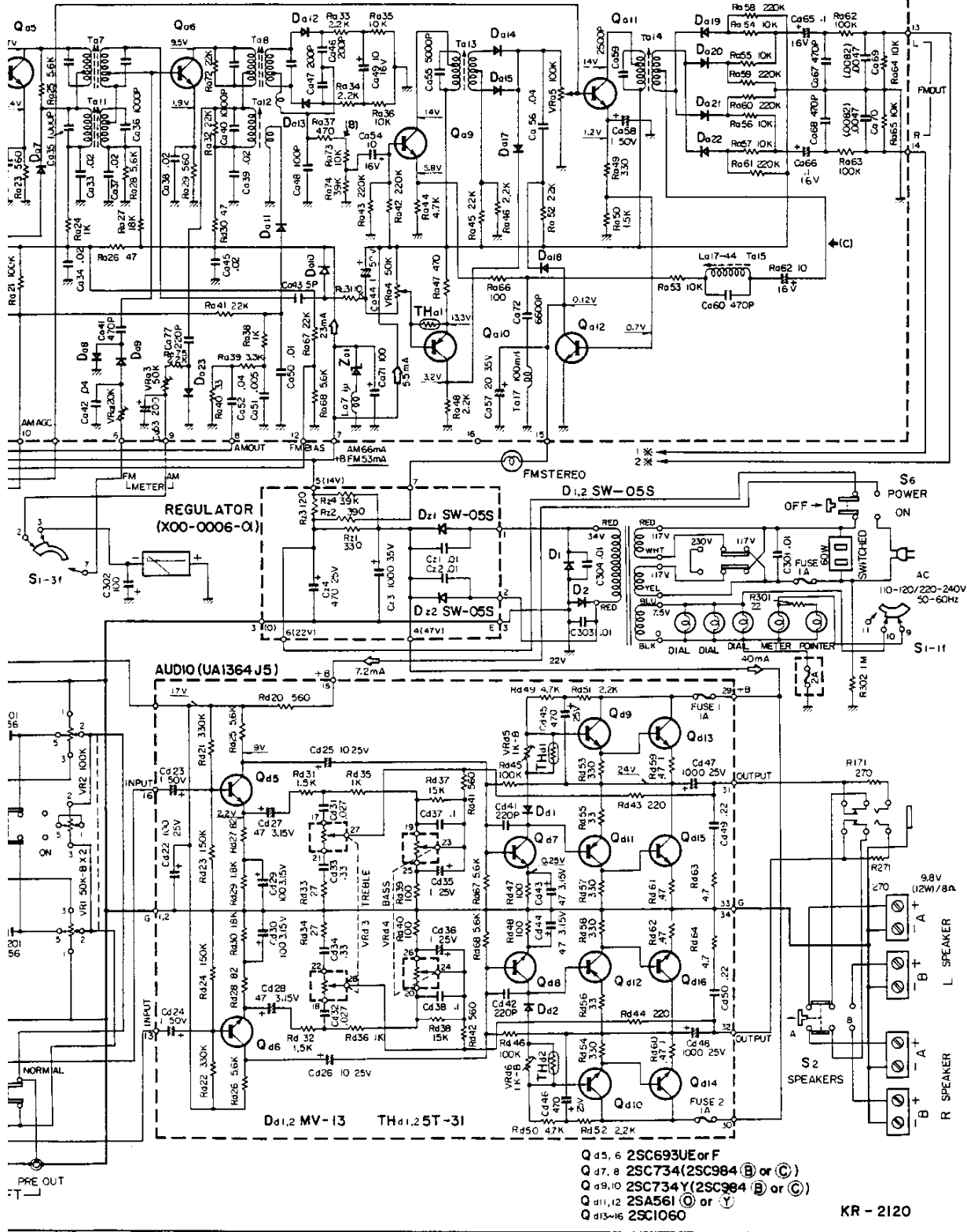


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MATIC DIAGRAM

Q₃₇₈ Q₉₉ CS9014(B)=(2SC458 (B) or (C)) Q₄₁₀ 2SB56A Q₄₁₁ CS9014(C)=(2SC458 (C)) Q₄₁₂ 2SC734(Y) D_{41-5, 17-23} 1N60 Z₄₁ ZBI-14



ALIGNMENT PROCEDURE

TUNER SECTION

FM ALIGNMENT PROCEDURE

1. Instruments: FM SG, AC VTVM and Oscilloscope
2. Warm-up: Allow 30 minutes warm-up period for receiver and equipments
3. Selector SW: Always place in FM AUTO position
4. Alignment tool: IF transformers require a plastic screwdriver-type alignment tool

STEP	Align	Dummy Antenna	FM SSG		Tuning Dial Setting	Output Indicator	Adjust	Remarks
			Coupling	Input Signal				
1	IFT	Direct	High side to (A) Low side to Chassis	10.7 MHz (Unmod.)	Any non-interfering setting	Tuning Indicator	(X05-0006-10) Ta3, Ta5~7	Maximum Deflection
2	DISCRIMINATOR	300 ohm Carbon Resistor	FM Antenna Terminal	98 MHz 400 Hz (Mod.) 75 kHz (Dev.) 0.5~1 mV (Input)	Tune for maximum using tuning indicator	VTVM at LEFT output jack of TAPE REC	(X05-0006-10) Ta8	Maximum Deflection
3	RF AMP CIRCUIT	300 ohm Carbon Resistor	FM Antenna Terminal	90 MHz 400 Hz (Mod.) 75 kHz (Dev.) 1.5~2μV (Input)	90 MHz	VTVM & X-tal earphone at LEFT output jack of TAPE REC	(X05-0006-10) Ta1, Ta2, Ta4	Maximum Deflection
4	RF AMP CIRCUIT	300 ohm Carbon Resistor	FM Antenna Terminal	106 MHz 400 Hz (Mod.) 75 kHz (Dev.) 1.5~2μV (Input)	106 MHz	VTVM & X-tal earphone at LEFT output jack of TAPE REC	(X05-0006-10) CTa1~3	Maximum Deflection
5	Repeat steps 3 & 4 until no further improvement is possible.							
6	METER SETTING	300 ohm Carbon Resistor	FM Antenna Terminal	98 MHz 400 Hz (Mod.) 75 kHz (Dev.) 1mV (Input)	Tune for maximum deflection VTVM & X-tal earphone at LEFT output jack of TAPE REC	Tuning Indicator	(X05-0006-10) VRa1	"4" Indicator

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ALIGNMENT PROCEDURE

FM MPX ALIGNMENT PROCEDURE

(a) SCA FILTER

1. Instruments: Audio SG, AC VTVM & Oscilloscope
2. Selector SW: Always place in FM AUTO position
3. Warm-up: Allow 30 minutes warm-up period for Receiver and equipments

STEP	Audio Signal Generator Coupling	Audio Signal Generator Frequency	AC VTVM & Oscilloscope Coupling	Adjust	Remarks
1	High side to (B) Low side to chassis	67 kHz (0.5V)	High side to (C) Low side to chassis	(X05-0006-10) Ta15	Minimum Deflection

(b) MPX

1. Instruments: FM SG, Audio SG, AC VTVM & Oscilloscope
2. Selector SW: Always place in FM AUTO position
3. Warm-up: Allow 30 minutes warm-up period for Receiver and equipments.

(Field Strength: $1000 \mu V$ at Antenna Terminal)

STEP	FM SSG			19 kHz Pilot Carrier Switch	VTVM & Oscilloscope Connection	Adjust	Remarks
	Coupling	Modulation Frequency	Input Selector				
1	FM Antenna Terminal	OFF	OFF	ON	High side to (C) Low side to chassis	(X05-0006-10) Ta13	Maximum Deflec- tion
2	FM Antenna Terminal	OFF or 400 Hz	A + B or REVERSE	ON	OFF	(X05-0006-10) VRa4 VRa5	Beacon Lamp "ON"
3	To distant of Antenna Terminal	400 Hz	A + B or REVERSE	ON	LEFT or RIGHT output jack of TAPE REC	(X05-0006-10) Ta14	To obtain a wave form with maxi- mum amplitude and minimum distortion at 400 Hz on oscilloscope
4	FM Antenna Terminal	2,000 Hz	A or LEFT	ON	RIGHT output of TAPE REC	(UA1364J5) VRd1	Minimum Deflec- tion
5	FM Antenna Terminal	2,000 Hz	B or RIGHT	ON	LEFT output of TAPE REC	(UA6001J) VRd1	Minimum Deflec- tion
6	Repeat steps 4 & 5 until no further improvement is possible.						

ALIGNMENT PROCEDURE

(c) BEACON LAMP

1. Instruments: FM SG, FM Stereo Signal Generator
Audio SG, AC VTVM (or Circuit Tester) & Oscilloscope
2. Selector SW: Always place in FM AUTO position
3. Warm-up: Allow 30 minutes warm-up period for Receiver and equipments

STEP	FM SSG			19 kHz Pilot Carrier Switch	AC VTVM Oscilloscope Connection	DC VTVM or Circuit Tester Connection	Adjust	Remarks
	Coupling	Modulation Frequency	Input Selector					
1	FM Antenna Terminal	DEV. 40 kHz 1 mV	Normal	ON	LEFT or RIGHT output Jack of TAPE REC	OFF	(X05-0006-10) VRa5	Beacon Lamp "ON"
2	FM Antenna Terminal	DEV. 30 kHz 1 mV	Normal	ON	LEFT or RIGHT output Jack of TAPE REC	OFF	(X05-0006-10) VRa5	Beacon Lamp Threshold of light off
3	FM Antenna Terminal	DEV. 67.5 kHz 10 μ V	Normal	ON	LEFT or RIGHT output Jack of TAPE REC	OFF	(X05-0006-10) VRa4	Certify the light of Beacon Lamp

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ALIGNMENT PROCEDURE

AM ALIGNMENT PROCEDURE

1. Alignment tool: IF transformers require a plastic screwdriver-type alignment tool
2. Instruments: AM SG, AC VTVM & Oscilloscope
3. Selector SW: Always place in AM position
4. Warm-up: Allow 30 minutes warm-up period for Receiver and equipment

STEP	Dummy Antenna	AM Signal Generator Coupling	Signal Generator Frequency	Tuning Dial Setting	Indicating Meter	Adjust	Remarks
1	Direct	High side to AM antenna terminal, Low side to chassis	455 kHz (400 Hz 30% AM)	Any non-interferring	Tuning Indicator	(X05-0006-10) Ta10, 11, 12	Maximum Deflection
2	Direct	Connect to short loop of wire, Radiate Signal into ferrite loop stick antenna of receiver	600 kHz (400 Hz 30% AM)	600 kHz	Tuning Indicator	(X05-0006-10) Ta9 (BAR ANT.)	Maximum Deflection
3	Direct	Connect to short loop of wire, Radiate Signal into ferrite loop stick antenna of receiver	1,400 kHz (400 Hz 30% AM)	1,400 kHz	Tuning Indicator	(X05-0006-10) CTa4, 5	Maximum Deflection
4	Repeat steps 2 & 3 until no further improvement is possible.						

FOR SERVICE MANUALS

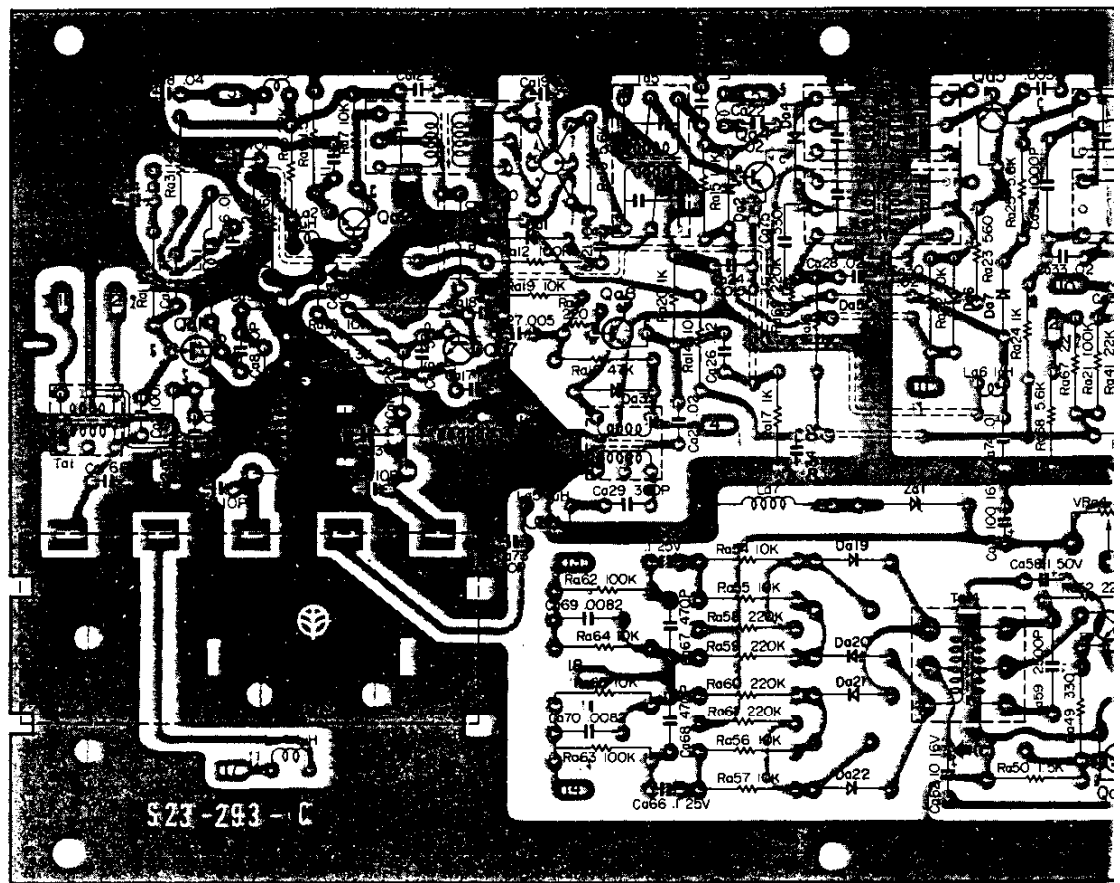
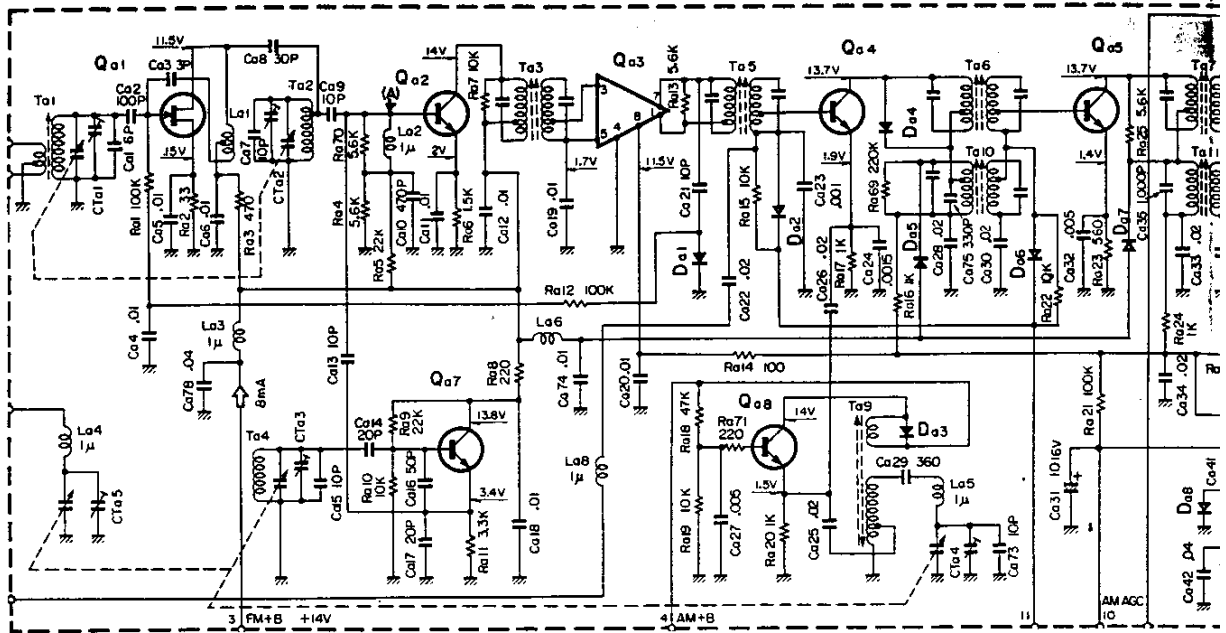
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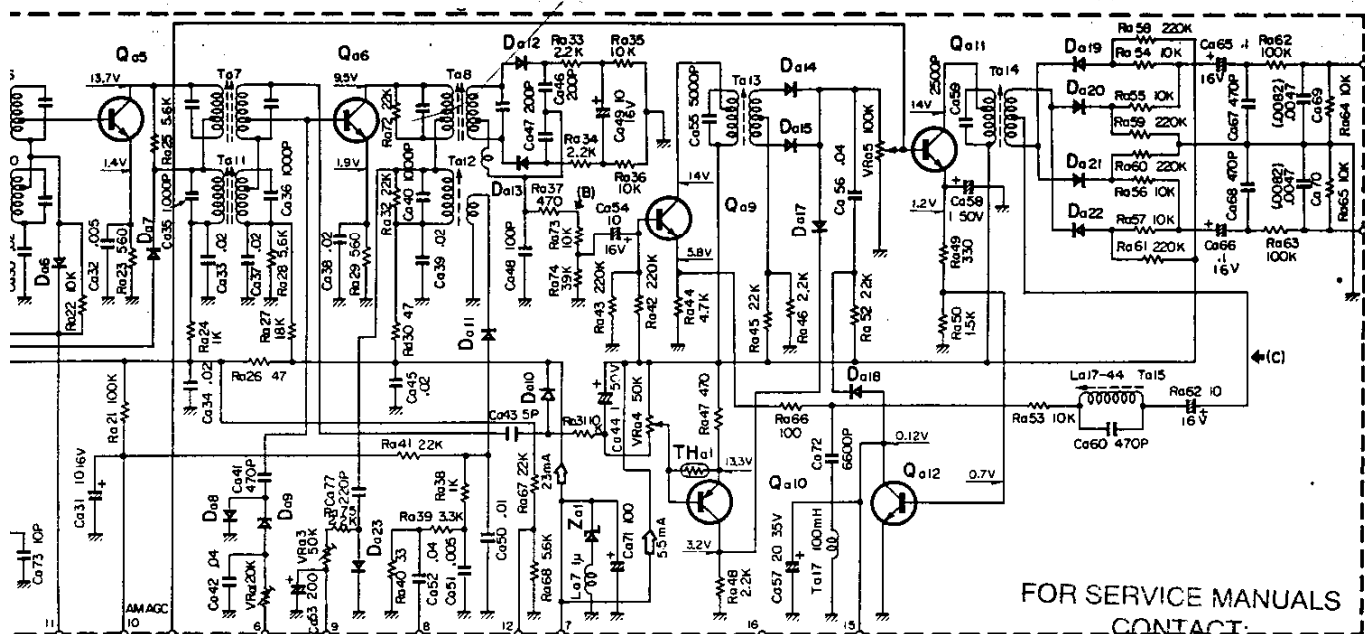
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SCHEMATIC DIAGRAM


Qa1 2SK-19 (GR or BL), Qa2 2SC381R, Qa3 SL-20575 (R or BL), Qa4 ~ 6 2SC381R, Qa7 2SC785R, Qa8 2SC378, Qa9 CS9
Qa11 CS9014C (2SC458L, C), Qa12 2SC734Y



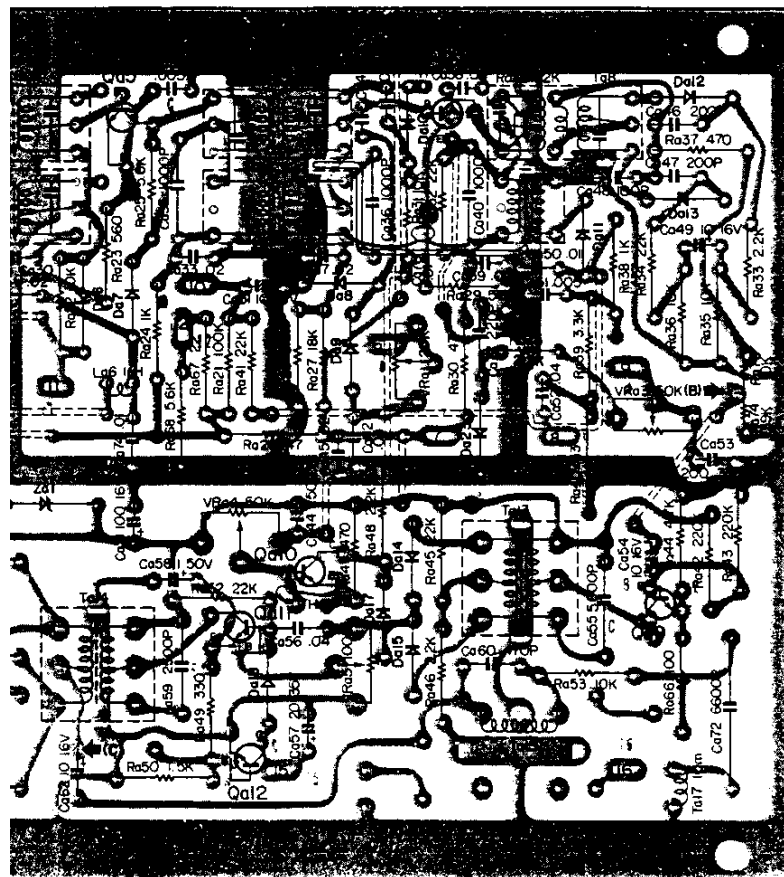
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BOTTOM VIEW OF TRANSISTOR



2SK19



SL-20575



CS9014



2SC734
2SC381R
2SC785R
2SC378



2SB56A



CASE
COLLECTOR

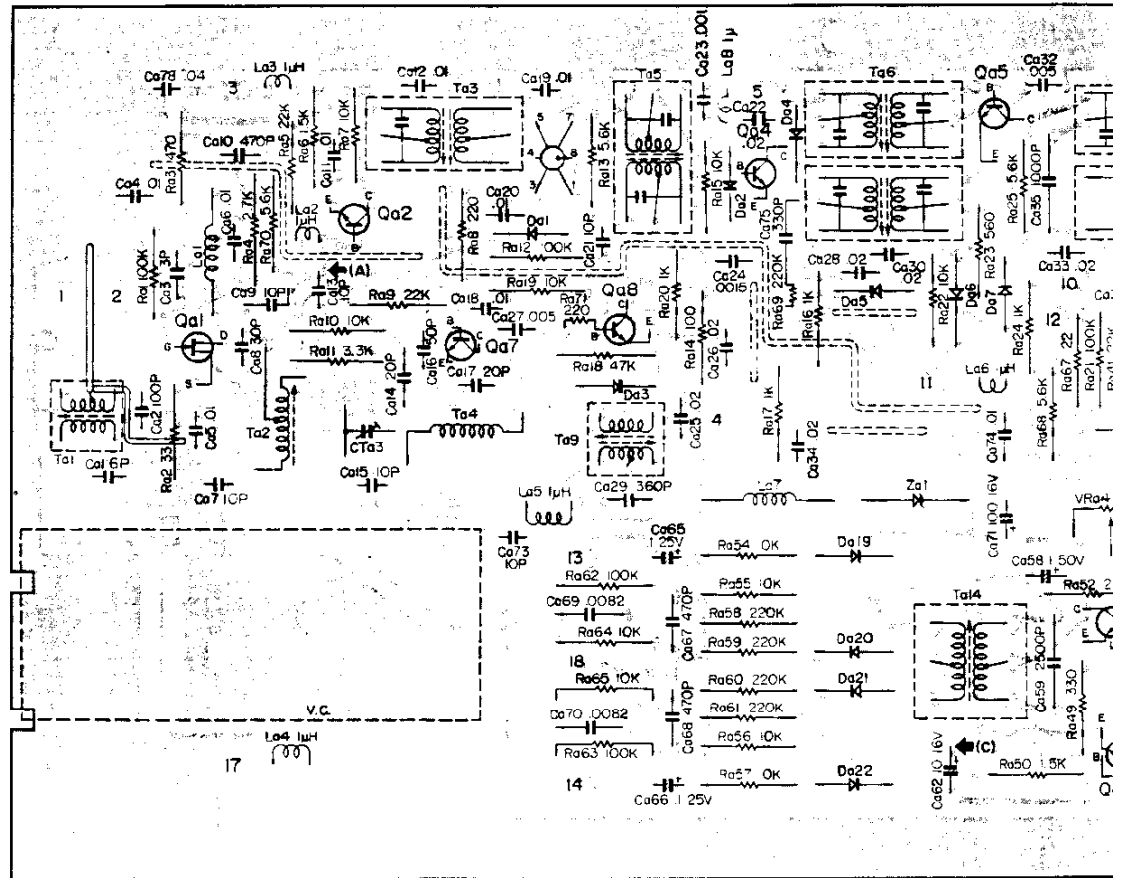
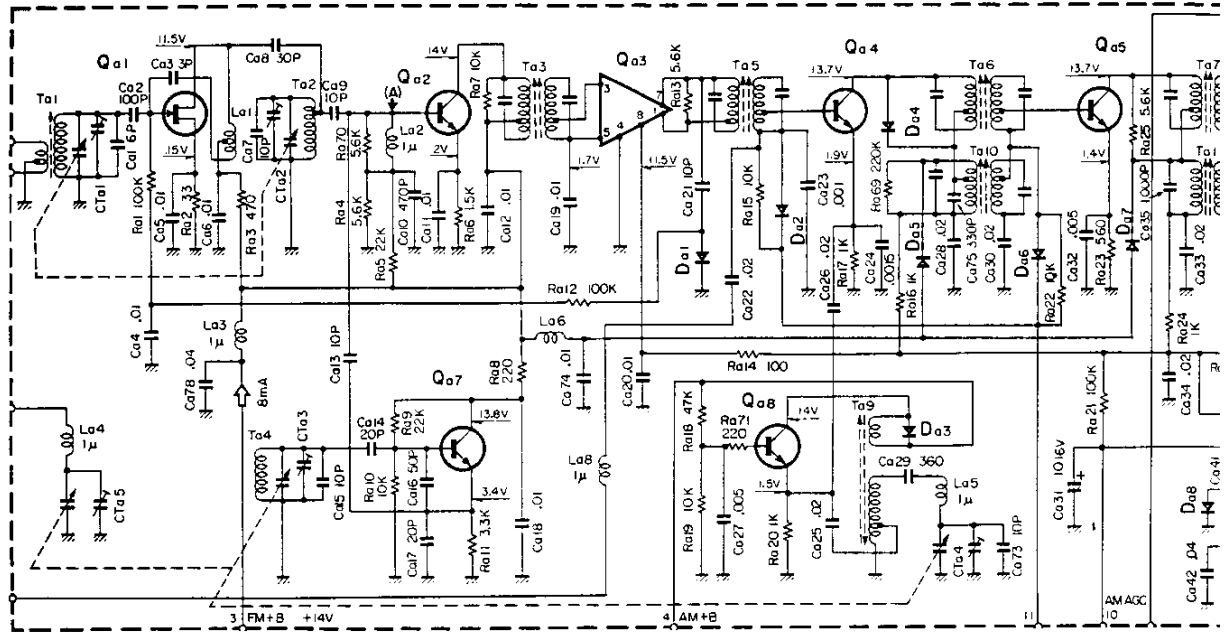
Δ MARK

FROM THE SERIAL NO. 230001, KR-3130 IS CHANGED THE PREVIOUS UNIT FOR THIS.

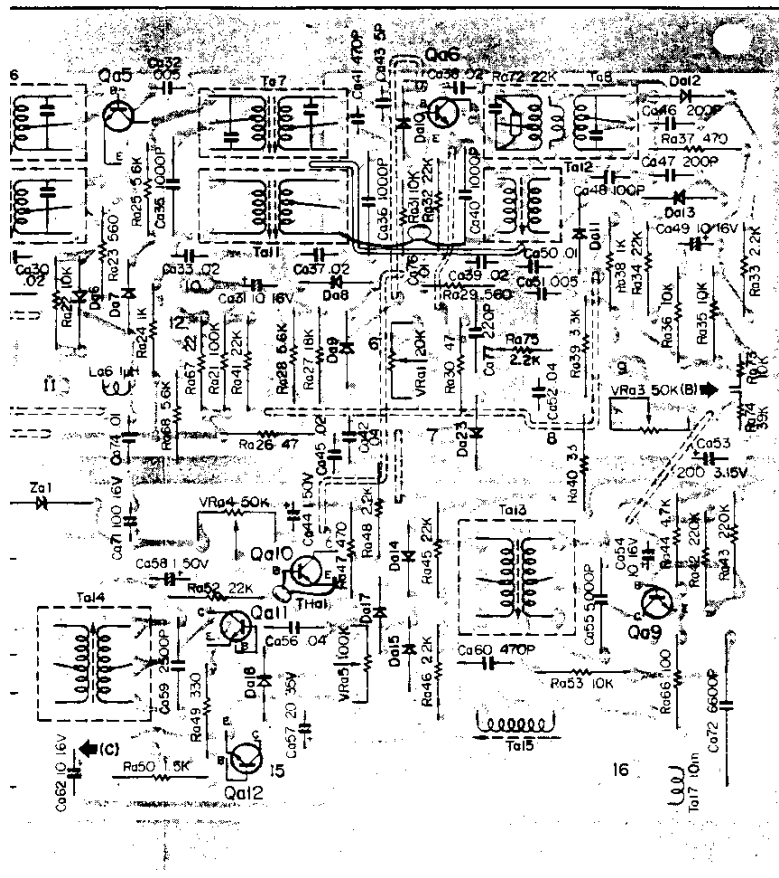
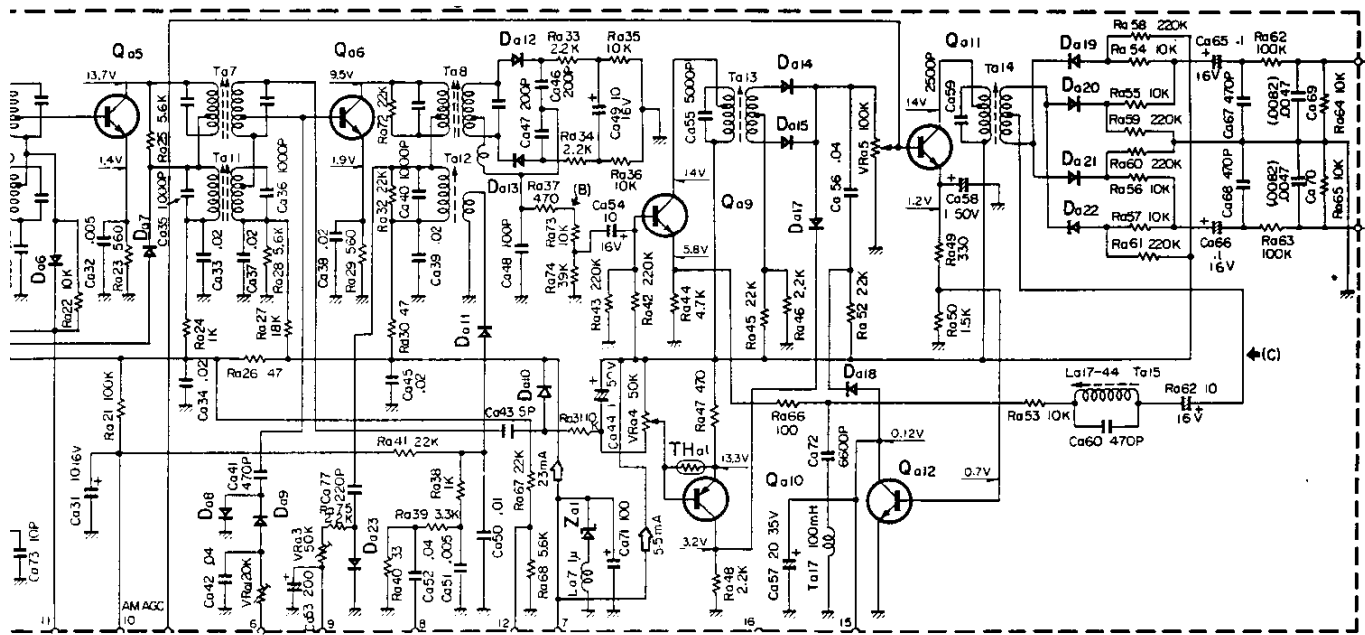
FROM THE SERIAL NO. 140501, KT-1000 IS CHANGED THE PREVIOUS UNIT FOR THIS.

5R, Qa8 2SC378, Qa9 CS9014B (2SC458L, B or C), Qa10 2SB56A,

SCHEMATIC DIAGRAM



Qa1 2SK-19 (GR or BL), Qa2 2SC381R, Qa3 SL-20575 (R or BL), Qa4 ~ 6 2SC381R, Qa7 2SC785R, Qa8 2SC378, Qa9 CS1
Qa11 CS9014C (2SC458L, C), Qa12 2SC734Y



BOTTOM VIEW OF TRANSISTOR

2SK19



SL-20575



CS9014

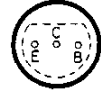


2SC734

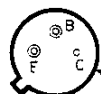
2SC381R

2SC785R

2SC378



2SB56A



CASE COLLECTOR

FROM THE SERIAL NO. 230001, KR-3130 IS CHANGED THE PREVIOUS UNIT FOR THIS.
FROM THE SERIAL NO. 140501, KT-1000 IS CHANGED THE PREVIOUS UNIT FOR THIS.

5R, Qa8 2SC378, Qa9 CS9014B (2SC458L, B or C), Qa10 2SB56A,



KENWOOD

TUNER (X05-0006-10) SECTION

PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Re- marks
CAPACITORS			
Ca1	Ceramic	CC94SL1H060D	
Ca2	Ceramic	CC94SL1H101K	±0.5pF
Ca3	Ceramic	CC94SL1H030C	±10%
Ca4 ~ 6	Ceramic	CC94SL1H030C	±0.25pF
Ca7	Ceramic	CC94YGY1E103Z	+80%, -20%
Ca8	Ceramic	CC94TH1H100K	±10%
Ca9	Ceramic	CC94SH1H300K	±10%
Ca10	Ceramic	CC94TH1H100K	±10%
Ca11, 12	Ceramic	CC94YGY1E103Z	+80%, -20%
Ca13	Ceramic	CC94TH1H100K	±10%
Ca14	Ceramic	CC94RG1H200K	±10%
Ca15	Ceramic	CC94SH1H100K	±10%
Ca16	Ceramic	CC94TH1H200K	±10%
Ca17	Ceramic	CC94TH1H500K	±10%
Ca18 ~ 20	Ceramic	CC94YGY1E103Z	+80%, -20%
Ca21	Ceramic	CC94SL1H100D	±0.5pF
Ca22	Ceramic	CC94YGY1E203Z	+80%, -20%
Ca23	Ceramic	CC94YGY1H102M	±20%
Ca24	Ceramic	CC94YGY1H152M	+80%, -20%
Ca25, 26	Ceramic	CC94YGY1E203Z	+80%, -20%
Ca27	Ceramic	CC94YGY1E502Z	+80%, -20%
Ca28	Ceramic	CC94YGY1E203Z	+80%, -20%
Ca29	Ceramic	CC94YGY1H361K	±10%
Ca30	Ceramic	CC94YGY1E203M	+80%, -20%
Ca31	Electrolytic Tubular	CE04W1C100	10μF 16WV
Ca32	Ceramic	CC94YGY1H502M	+80%, -20%
Ca33, 34	Ceramic	CC94YGY1E203M	+80%, -20%
Ca35, 36	Polystyrene Film	CO08S2B102J	±5%
Ca37 ~ 39	Ceramic	CC94YGY1E203M	+80%, -20%
Ca40	Polystyrene Film	CO08S2B102J	±5%
Ca41	Ceramic	CC94YGY1E403Z	+80%, -20%
Ca42	Ceramic	CC94YGY1H103M	+80%, -20%
Ca43	Ceramic	CC94SL1H050D	±0.5pF
Ca44	Electrolytic Tubular	CE04W1H010	1μF 50WV
Ca45	Ceramic	CC94YGY1E203M	+80%, -20%
Ca46, 47	Ceramic	CC94SL1H201K	±10%
Ca48	Ceramic	CC94SL1H101K	±10%
Ca49	Electrolytic Tubular	CE04W1C100	10μF 16WV
Ca50	Ceramic	CC94YGY1H103M	±20%
Ca51	Ceramic	CC94YGY1H502M	±20%
Ca52	Ceramic	CC94YGY1E403Z	+80%, -20%
Ca53	Electrolytic Tubular	CE04W0F201	200μF 3.15WV
Ca54	Electrolytic Tubular	CE041C100	10μF 16WV
Ca55	Polystyrene Film	CO08S2B502J	±5%
Ca56	Ceramic	CC94YGY1E402Z	+80%, -20%

Symbol No.	Description	Part No.	Re- marks
Ra27	Insulated Carbon Film	PD14BY2E183K	18kΩ ±10%
Ra28	Insulated Carbon Film	PD14BY2E562K	5.6kΩ ±10%
Ra29	Insulated Carbon Film	PD14BY2E561K	560Ω ±10%
Ra30	Insulated Carbon Film	PD14BY2E470K	47Ω ±10%
Ra31	Insulated Carbon Film	PD14BY2E103K	10kΩ ±10%
Ra32	Insulated Carbon Film	PD14BY2E223K	22kΩ ±10%
Ra33, 34	Insulated Carbon Film	PD14BY2E222K	2.2kΩ ±10%
Ra35, 36	Insulated Carbon Film	PD14BY2E103K	10kΩ ±10%
Ra37	Insulated Carbon Film	PD14BY2E471K	470Ω ±10%
Ra38	Insulated Carbon Film	PD14BY2E103K	1kΩ ±10%
Ra39	Insulated Carbon Film	PD14BY2E332K	3.3kΩ ±10%
Ra40	Insulated Carbon Film	PD14BY2E330K	33Ω ±10%
Ra41	Insulated Carbon Film	PD14BY2E224K	22kΩ ±10%
Ra42, 43	Insulated Carbon Film	PD14BY2E223K	220kΩ ±10%
Ra44	Insulated Carbon Film	PD14BY2E224K	4.7kΩ ±10%
Ra45	Insulated Carbon Film	PD14BY2E223K	22kΩ ±10%
Ra46	Insulated Carbon Film	PD14BY2E222K	2.2kΩ ±10%
Ra47	Insulated Carbon Film	PD14BY2E471K	470Ω ±10%
Ra48	Insulated Carbon Film	PD14BY2E331K	2.2kΩ ±10%
Ra49	Insulated Carbon Film	PD14BY2E152K	1.5kΩ ±10%
Ra50	Insulated Carbon Film	PD14BY2E223K	22kΩ ±10%
Ra52	Insulated Carbon Film	PD14BY2E223K	22kΩ ±10%
Ra53	Insulated Carbon Film	PD14BY2E103K	10kΩ ±10%
Ra54 ~ 57	Insulated Carbon Film	PD14BY2E103K	±5%
Ra58 ~ 61	Insulated Carbon Film	PD14BY2E224J	220kΩ ±5%
Ra62, 63	Insulated Carbon Film	PD14BY2E104J	100kΩ ±5%
Ra64, 65	Insulated Carbon Film	PD14BY2E103J	10kΩ ±5%
Ra66	Insulated Carbon Film	PD14BY2E101K	100Ω ±10%
Ra67	Insulated Carbon Film	PD14BY2E223K	22kΩ ±10%
Ra68	Insulated Carbon Film	PD14BY2E562K	5.6kΩ ±10%
Ra69	Insulated Carbon Film	PD14BY2E224K	220kΩ ±10%
Ra70	Insulated Carbon Film	PD14BY2E224K	5.6kΩ ±10%
Ra71	Insulated Carbon Film	PD14BY2E562K	5.6kΩ ±10%
Ra72	Insulated Carbon Film	PD14BY2E221K	220Ω ±10%
Ra73	Insulated Carbon Film	PD14BY2E223K	22kΩ ±10%
Ra74	Insulated Carbon Film	PD14BY2E103J	10kΩ ±5%
Ra75	Insulated Carbon Film	PD14BY2E393J	39kΩ ±5%
POTENTIOMETERS			
VRa1	20kΩ (B)	R10-75	
VRa3	50kΩ (B)	R10-101	
VRa4	50kΩ (B)	R10-101	
VRa5	100kΩ (B)	R10-91	
COILS/TRANSFORMERS			
La1	Choke Coil	L20-010D	
La2	Choke Coil	L33-0002 04	
La3 ~ 6	Ferri-Inductor	L33-0086 05	1μH
La7	Choke Coil	L20-010	

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POTENTIOMETERS				COILS/TRANSFORMERS				IC/TRANSISTORS			
VRa1	20k Ω	(B)	R10-75	La1	Choke Coil	1 μ H	L20-010D	Qa1	2SK-19 (GR or BL) FET		
VRa3	50k Ω	(B)	R10-101	La2	Choke Coil	FL5H-IROM	L33-0002-04	Qa2	2SC381R		
VRa4	50k Ω	(B)	R10-101	La3 ~ 6	Ferrite Inductor	1 μ H	L33-0086-05	Qa3	SL-20575 (R or BL) IC		
VRa5	100k Ω	(B)	R10-91	La7	Choke Coil		L20-010	Qa4 ~ 6	2SC381R		
				La8	Ferrite Inductor	FL5H-IROM	L33-0086-05	Qa7	2SC785R		
				Ta1	FM ANT Coil	1 μ H	L24-UA1129JA	Qa8	2SC378		
				Ta2	FM RF Coil		L33-0027-04	Qa9	CS9014B (2SC458L, B or C)		
				Ta3	FM IFT		L02-105	Qa10	2SB56A		
				Ta4	FM OSC Coil		L24-UA5406KS	Qa11	CS9014C (2SC458L, C)		
				Ta5	FM IFT		L02-106	Qa12	2SC734Y		
				Ta6	FM IFT		L02-107				
				Ta7	FM IFT		L02-108				
				Ta8	FM IFT		L02-91				
				Ta9	AM OSC		L01-95				
				Ta10	AM IFT		L01-93				
				Ta11	AM IFT		L01-94				
				Ta12	AM IFT		L01-65				
				Ta13	19 kHz Coil		L17-49				
				Ta14	38 kHz Coil		L17-50				
				Ta15	72 kHz Coil		L17-44				
				Ta17	Ferrite Inductor	FL8H-103J	L33-0115-05				
DIODES/THERMISTOR				MISCELLANEOUS							
Da1 ~ 15,	1N60 or 1N34A (YELLOW)			V C	P C Board		S23-293				
17 ~ 23				Za1	Variable Capacitor		D01-171				
THa1	ZB1-14				Pin x 18		E23-0008-04				
	SDT-1000L or 5T-41L				Shield Board A		F10-0002-14				
					Shield Board B		F10-0004-04				
					Shield Board C		F10-0004-04				

RESISTORS							
Ca46, 47	Ceramic	200pF	$\pm 10\%$	CK94SL1H201K			
Ca48	Ceramic	100pF	$\pm 10\%$	CK94SL1H101K			
Ca49	Electrolytic Tubular	10 μ F	16WV	CE04W1C100			
Ca50	Ceramic	0.01 μ F	$\pm 20\%$	CK94YY1H103M			
Ca51	Ceramic	0.005 μ F	$\pm 20\%$	CK94YY1H502M			
Ca52	Ceramic	0.04 μ F	$\pm 80\%$	CK94YG1E403Z			
Ca53	Electrolytic Tubular	200 μ F	3 15WV	CE04W0F201			
Ca54	Electrolytic Tubular	10 μ F	16WV	CE041C100			
Ca55	Polystyrene Film	5000pF	$\pm 5\%$	CO08S2B502J			
Ca56	Ceramic	0.04 μ F	$\pm 80\%$	CK94Y1G1E402Z			
Ca57	Electrolytic Tubular	200 μ F	35WV	CE04W1V201			
Ca58	Electrolytic Tubular	1 μ F	50WV	CE04W1H010			
Ca59	Polystyrene Film	2500pF	$\pm 5\%$	CO08S2B252J			
Ca60	Polystyrene Film	470pF	$\pm 5\%$	CM93F1H471J			
Ca62	Electrolytic Tubular	10 μ F	16WV	CE04W1H100			
Ca65, 66	Solid Aluminum	0.1 μ F	$\pm 20\%$	CA04W1E0R1M			
Ca67, 68	Ceramic	470pF	$\pm 10\%$	CK94Y1H471K			
Ca69, 70	Mylar	0.0082 μ F	$\pm 5\%$	CO93M1H822J			
Ca71	Electrolytic Tubular	100 μ F	16WV	CE04W1C101			
Ca72	Polystyrene Film	6600pF	$\pm 5\%$	CO08S2B662J			
Ca73	Ceramic	10pF	$\pm 10\%$	CK94TH1H100K			
Ca74	Ceramic	0.01 μ F	$\pm 20\%$	CK94YY1H103M			
Ca75	Polystyrene Film	330pF	$\pm 5\%$	CM93F1H331J			
Ca77	Ceramic	220pF	$\pm 10\%$	CK94SL1H221K			
Ca78	Ceramic	0.04 μ F	$\pm 80\%$	CK94YG1E402Z			
CTa3	Ceramic Trimmer			C4036			
RESISTORS							
Ra1	Insulated Carbon Film	100k Ω	$\pm 10\%$	PD14BY2E104K			
Ra2	Insulated Carbon Film	33 Ω	$\pm 10\%$	PD14BY2E330K			
Ra3	Insulated Carbon Film	470 Ω	$\pm 10\%$	PD14BY2E471K			
Ra4	Insulated Carbon Film	5.6k Ω	$\pm 10\%$	PD14BY2E562K			
Ra5	Insulated Carbon Film	22k Ω	$\pm 10\%$	PD14BY2E223K			
Ra6	Insulated Carbon Film	1.5k Ω	$\pm 10\%$	PD14BY2E152K			
Ra7	Insulated Carbon Film	10k Ω	$\pm 10\%$	PD14BY2E103K			
Ra8	Insulated Carbon Film	220 Ω	$\pm 10\%$	PD14BY2E221K			
Ra9	Insulated Carbon Film	22k Ω	$\pm 10\%$	PD14BY2E223K			
Ra10	Insulated Carbon Film	10k Ω	$\pm 10\%$	PD14BY2E103K			
Ra11	Insulated Carbon Film	3.3k Ω	$\pm 10\%$	PD14BY2E332K			
Ra12	Insulated Carbon Film	100k Ω	$\pm 10\%$	PD14BY2E104K			
Ra13	Insulated Carbon Film	5.6k Ω	$\pm 10\%$	PD14BY2E562K			
Ra14	Insulated Carbon Film	100 Ω	$\pm 10\%$	PD14BY2E101K			
Ra15	Insulated Carbon Film	10k Ω	$\pm 10\%$	PD14BY2E103K			
Ra16, 17	Insulated Carbon Film	1k Ω	$\pm 10\%$	PD14BY2E102K			
Ra18	Insulated Carbon Film	47k Ω	$\pm 10\%$	PD14BY2E473K			
Ra19	Insulated Carbon Film	10k Ω	$\pm 10\%$	PD14BY2E103K			
Ra20	Insulated Carbon Film	1k Ω	$\pm 10\%$	PD14BY2E102K			
Ra21	Insulated Carbon Film	100k Ω	$\pm 10\%$	PD14BY2E104K			
Ra22	Insulated Carbon Film	10k Ω	$\pm 10\%$	PD14BY2E103K			
Ra23	Insulated Carbon Film	560 Ω	$\pm 10\%$	PD14BY2E561K			
Ra24	Insulated Carbon Film	1k Ω	$\pm 10\%$	PD14BY2E102K			
Ra25	Insulated Carbon Film	5.6k Ω	$\pm 10\%$	PD14BY2E562K			
Ra26	Insulated Carbon Film	47 Ω	$\pm 10\%$	PD14BY2E470K			

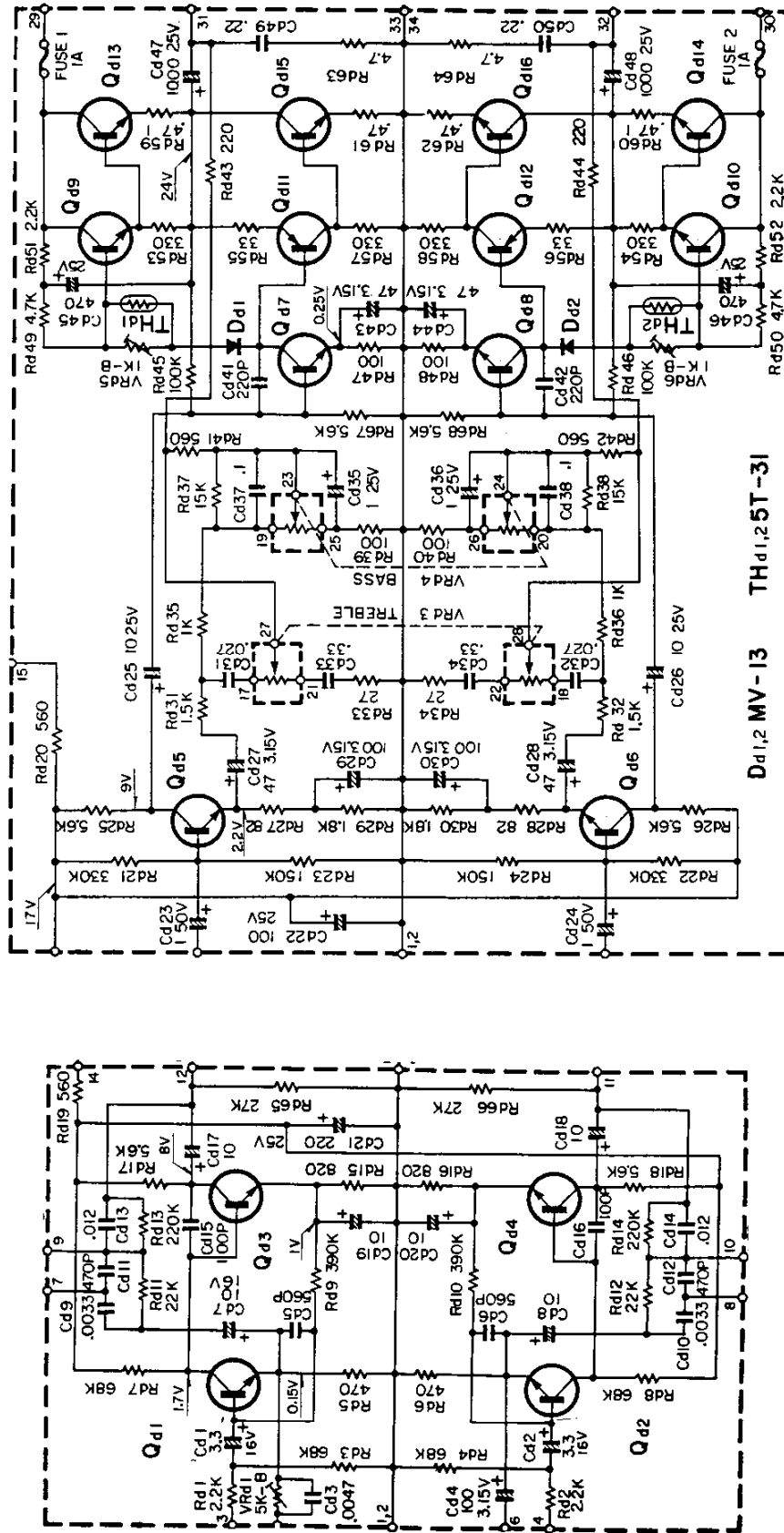


KENWOOD

PRE, TONE & MAIN (X09-0003-05) SECTION

(KR-2120)

SCHEMATIC DIAGRAM

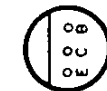


BOTTOM VIEW OF TRANSISTOR

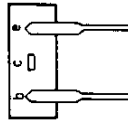
25C693

25A561

25C734Y



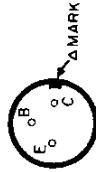
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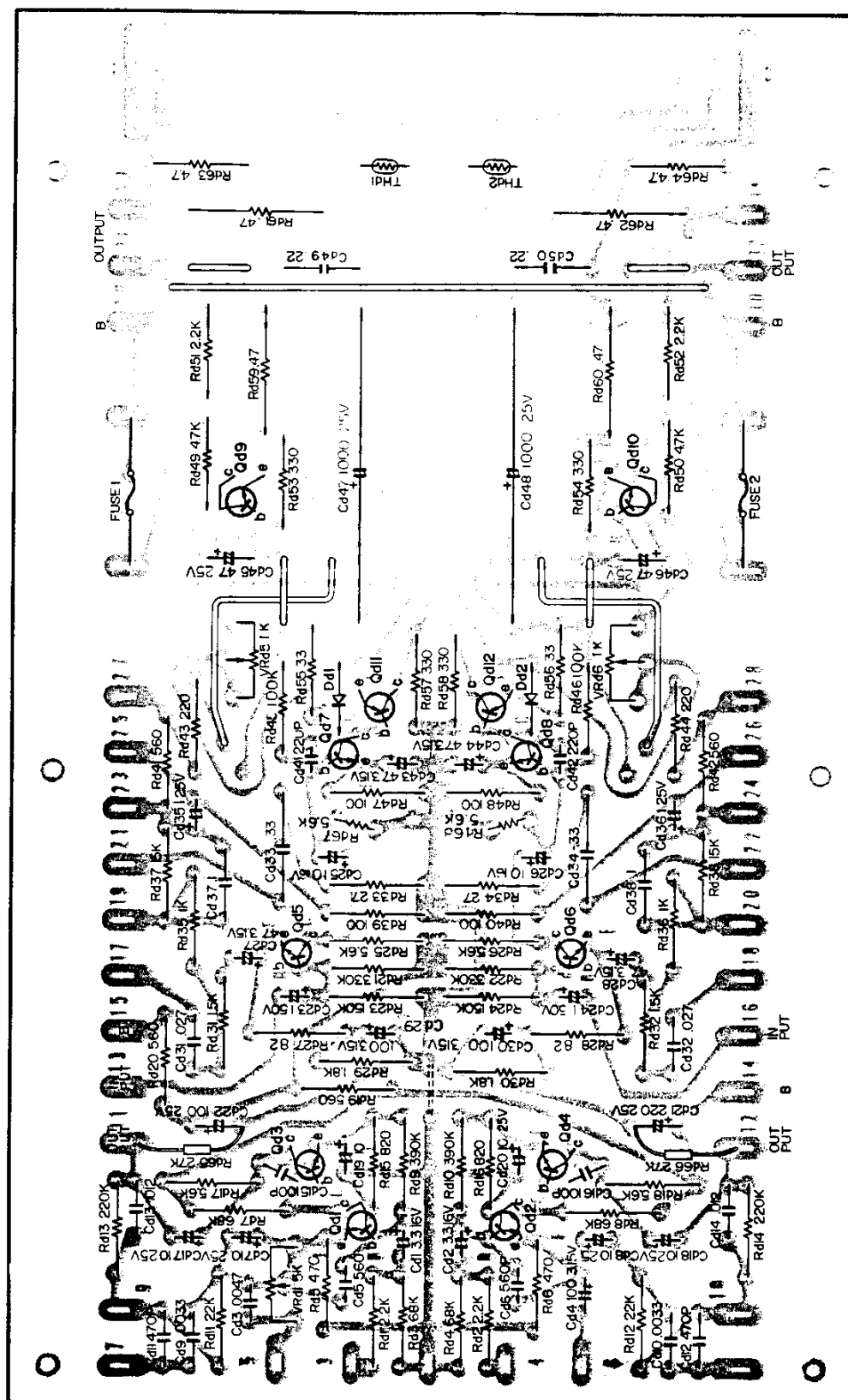


25C871



25C984





Qd1,2 2SC871E. Qd3~6 2SC693U(E) or (F). Qd7~10 2SC734Y or 2SC984(B) or (C).
Qd11,12 2SA561(D) or (Y). Qd13 ~16 2SC1060. Dd12 MV-13. THd1,2 5T-31.

Qd1,2 2SC871E. Qd3~6 2SC693U(E) or (F). Qd7~10 2SC734Y or 2SC984(B) or (C).
Qd11,12 2SA561(D) or (Y). Qd13 ~16 2SC1060. Ddl2 MV-13. THdl,2 5T-31.



KENWOOD

PRE, TONE & MAIN (X09-0003-05) SECTION

PARTS DESCRIPTION LIST

Symbol No.	Description	Part No.	Remarks
CAPACITOR			
Cd1, 2	Electrolytic Tubular	CE04W1C3R3	
Cd3	Mylar	C093M1H472K	
Cd4	Electrolytic Tubular	CE04W0F101	
Cd5, 6	Ceramic	CK94YY561M	
Cd7, 8	Electrolytic Tubular	CE04W1E100	
Cd9, 10	Mylar	C093M1H332K	
Cd11, 12	Ceramic	CK94YY1H471K	
Cd13, 14	Mylar	C093M1H123K	
Cd15, 16	Ceramic	CC94SL1H101K	
Cd17 ~20	Electrolytic Tubular	CE04W1E100	
Cd21	Electrolytic Tubular	CE04W1E221	
Cd22	Electrolytic Tubular	CE04W1E101	
Cd23, 24	Electrolytic Tubular	CE04W1H010	
Cd25, 56	Electrolytic Tubular	CE04W1E100	
Cd27, 28	Electrolytic Tubular	CE04W0F470	
Cd29, 30	Electrolytic Tubular	CE04W0F101	
Cd31, 32	Mylar	C093M1H273K	
Cd33, 34	Mylar	C093M1H334K	
Cd35, 36	Mylar	CE04W1E010M	
Cd37, 38	Mylar	C093M1H104K	
Cd41, 42	Ceramic	CC94SL1H221K	
Cd43, 44	Electrolytic Tubular	CE04W0F470	
Cd45, 46	Electrolytic Tubular	CE04W1E470	
Cd47, 48	Electrolytic Tubular	CE04W1E102	
Cd49, 50	Mylar	C093M1H224M	
RESISTOR			
Rd1, 2	Insulated Carbon Film	PD14BY2E222K	
Rd3, 4	Insulated Carbon Film	PD14BY2E683K	
Rd5, 6	Insulated Carbon Film	PD14BY2E471J	
Rd7, 8	Insulated Carbon Film	PD14BY2E683K	
Rd9, 10	Insulated Carbon Film	PD14BY2E394K	
Rd11, 12	Insulated Carbon Film	PD14BY2E223J	
Rd13, 14	Insulated Carbon Film	PD14BY2E224K	
Rd15, 16	Insulated Carbon Film	PD14BY2E821K	
Rd17, 18	Insulated Carbon Film	PD14BY2E562K	
Rd19, 20	Insulated Carbon Film	PD14BY2E561K	
Rd21, 22	Insulated Carbon Film	PD14BY2E334K	
Rd23, 24	Insulated Carbon Film	PD14BY2E154K	
Rd25, 26	Insulated Carbon Film	PD14BY2E562K	
Rd27, 28	Insulated Carbon Film	PD14BY2E820J	
Rd29, 30	Insulated Carbon Film	PD14BY2E182K	
Rd31, 32	Insulated Carbon Film	PD14BY2E152K	

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Rd13, 14	Insulated Carbon Film	220k Ω	$\pm 10\%$	1/4W	PD14BY2E224K
Rd15, 16	Insulated Carbon Film	820 Ω	$\pm 10\%$	1/4W	PD14BY2E821K
Rd17, 18	Insulated Carbon Film	5.6k Ω	$\pm 10\%$	1/4W	PD14BY2E562K
Rd19, 20	Insulated Carbon Film	560 Ω	$\pm 10\%$	1/4W	PD14BY2E561K
Rd21, 22	Insulated Carbon Film	330k Ω	$\pm 10\%$	1/4W	PD14BY2E334K
Rd23, 24	Insulated Carbon Film	150k Ω	$\pm 10\%$	1/4W	PD14BY2E154K
Rd25, 26	Insulated Carbon Film	5.6k Ω	$\pm 10\%$	1/4W	PD14BY2E562K
Rd27, 28	Insulated Carbon Film	82 Ω	$\pm 5\%$	1/4W	PD14BY2E820J
Rd29, 30	Insulated Carbon Film	1.8k Ω	$\pm 10\%$	1/4W	PD14BY2E182K
Rd31, 32	Insulated Carbon Film	1.5k Ω	$\pm 10\%$	1/4W	PD14BY2E152K
Rd33, 34	Insulated Carbon Film	27 Ω	$\pm 10\%$	1/4W	PD14BY2E270K
Rd35, 36	Insulated Carbon Film	1k Ω	$\pm 10\%$	1/4W	PD14BY2E102K
Rd37, 38	Insulated Carbon Film	15k Ω	$\pm 10\%$	1/4W	PD14BY2E153K
Rd39, 40	Insulated Carbon Film	100 Ω	$\pm 10\%$	1/4W	PD14BY2E101K
Rd41, 42	Insulated Carbon Film	560 Ω	$\pm 10\%$	1/4W	PD14BY2E561K
Rd43, 44	Insulated Carbon Film	220 Ω	$\pm 10\%$	1/4W	PD14BY2E221K
Rd45, 46	Insulated Carbon Film	100k Ω	$\pm 5\%$	1/4W	PD14BY2E104J
Rd47, 48	Insulated Carbon Film	100 Ω	$\pm 10\%$	1/4W	PD14BY2E101K
Rd49, 50	Insulated Carbon Film	4.7k Ω	$\pm 10\%$	1/4W	PD14BY2E472K
Rd51, 52	Insulated Carbon Film	2.2k Ω	$\pm 10\%$	1/4W	PD14BY2E222K
Rd53, 54	Insulated Carbon Film	330 Ω	$\pm 10\%$	1/4W	PD14BY2E331K
Rd55, 56	Insulated Carbon Film	33 Ω	$\pm 10\%$	1/4W	PD14BY2E330K
Rd57, 58	Insulated Carbon Film	330 Ω	$\pm 10\%$	1/4W	PD14BY2E331K
Rd59 ~ 62	Wire Wound	0.47 Ω	$\pm 10\%$	1W	RW16G3AR47K
Rd63, 64	Fixed Carbon Composition	4.7 Ω	$\pm 10\%$	1/2W	RC05GF2H4R7K
Rd65, 66	Insulated Carbon Film	27k Ω	$\pm 10\%$	1/4W	PD14BY2E273K
Rd67, 68	Insulated Carbon Film	5.6k Ω	$\pm 5\%$	1/4W	PD14BY2E562J
TRANSISTOR/DIODE					
Qd1, 2	2SC871E				
Qd3 ~ 6	2SC693U (E) or (F)				
Qd7, 8	2SC734Y or 2SC984 (B) or (C)				
Qd9, 10	2SC734 or 2SC984 (B) or (C)				
Qd11, 12	2SA561 (O) or (Y)				
Qd13 ~ 16	2SC1060				
Dd1, 2	MV-13				
POTENTIOMETER/THERMISTOR					
VRd1	5k Ω (B) Semi-Fixed				
VRd5, 6	1k Ω (B) Semi-Fixed				
THd1, 2	5T-31				
MISCELLANEOUS					
-	PC Board	S23-276			
-	Radiator	F01-0072-14			
-	Fuse Holder x 2	J13-0023-05			
-	Thermistor Holder	J21-0545-04			
F	Fuse x 2	S17-01			

FOR SELECTION

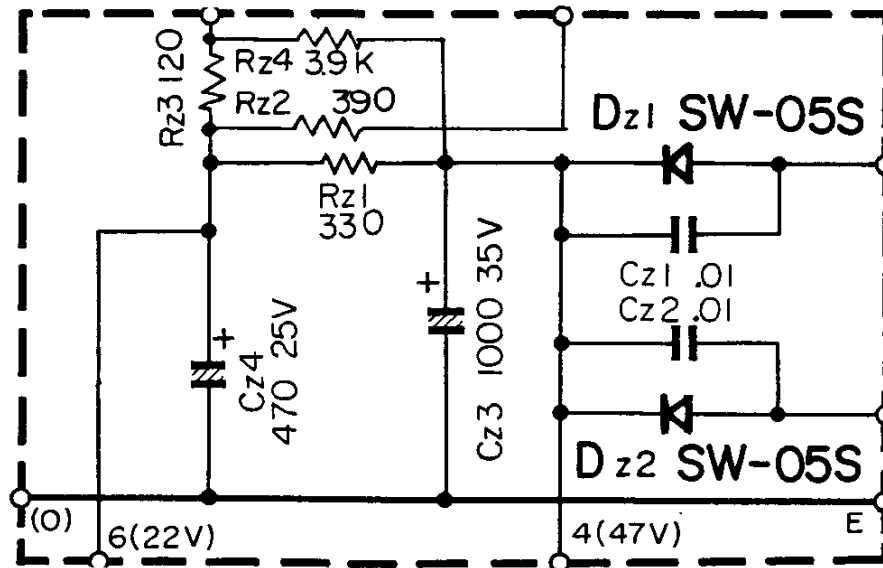
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SCHEMATIC DIAGRAM



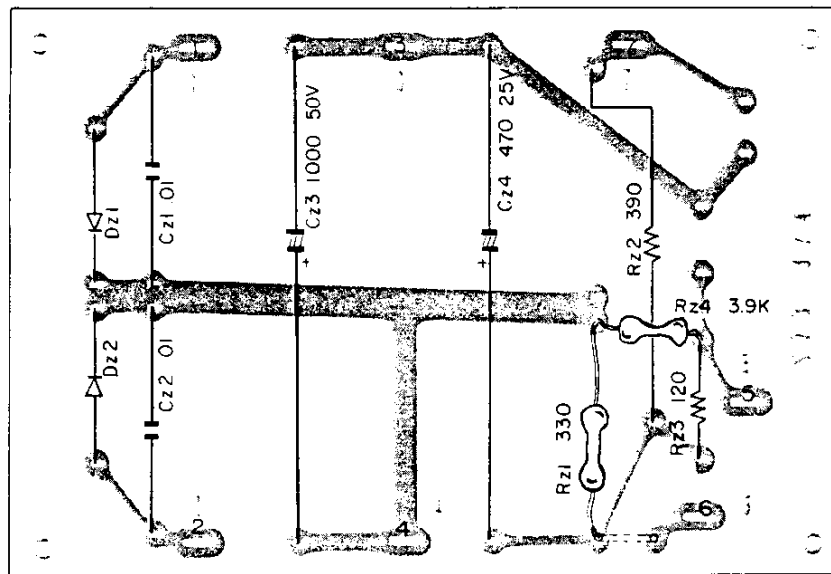
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SEALED CIRCUIT ASSEMBLIES-PHANTOM VIEWS



Dz1,2 SW-05S.

**KENWOOD****REGU (X00-0006-01) SECTION****PARTS DESCRIPTION LIST**

Symbol No.	Description				Part No.	Remarks
CAPACITOR						
Cz1, 2	Oil Impregnated	0.01μF	±20%		CP02B2J103M	
Cz3	Electrolytic Tubular	1000μF	50WV		CE02W1H102	
Cz4	Electrolytic Tubular	470μF	25WV		CE02W1E471	
RESISTOR						
Rz1	Resin Coated	330Ω	±10%	4W	RW14AG3G331K	
Rz2	Resin Coated	390Ω	±10%	2W	RW14AG3D391K	
Rz3	Fixed Carbon Composition	120Ω	±10%	1/2W	RC05GF2H121K	
Rz4	Fixed Carbon Composition	3.9kΩ	±10%	1/2W	RC05GF2H392K	
DIODE/P C BOARD						
Dz1, 2 —	SW-05S P C Board				S23-324	

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