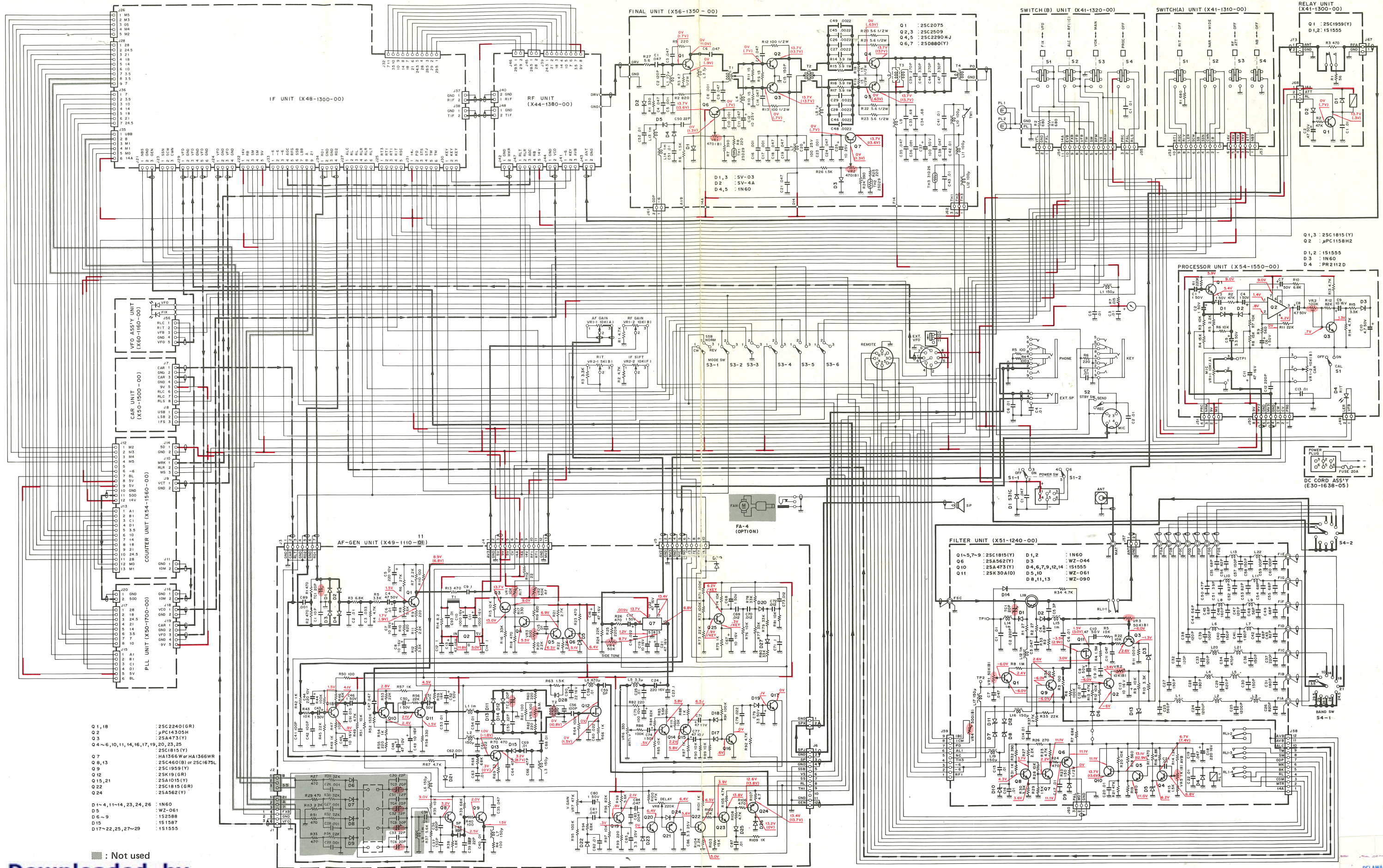


SCHEMATIC DIAGRAM

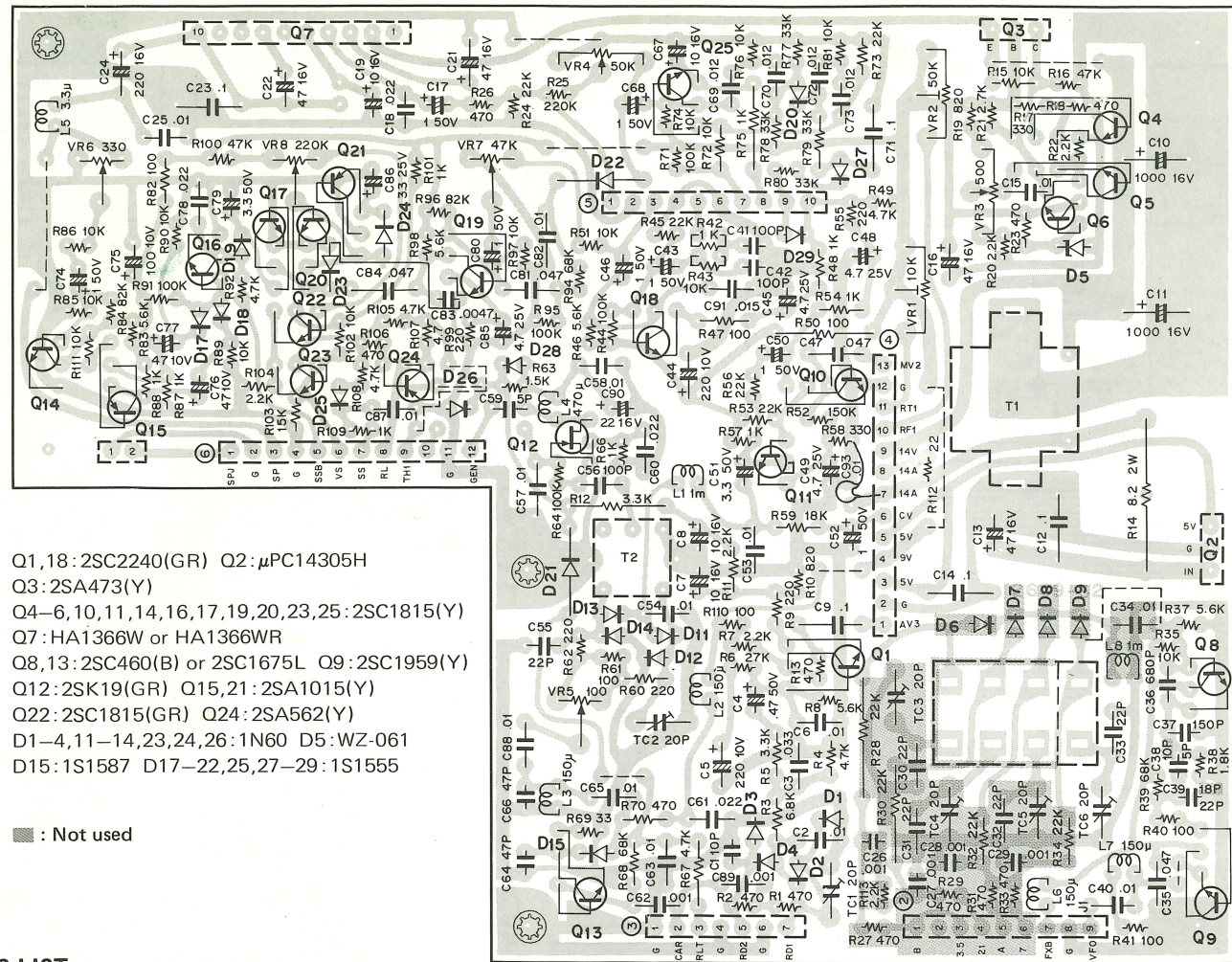
Voltage measurement conditions
 f = 14.25MHz, MODE SSB, RX no signal, () : in TX.

Signal Line Control Line Common DC Line



- Q1,18 : 25C2240(GR)
- Q2 : μ PC14305H
- Q3 : 25A473(Y)
- Q4~6,10,11,14,16,17,19,20,23,25
- Q7 : 25C1815(Y)
- Q8,13 : HA1566W or HA1366WR
- Q9 : 25C460(B) or 25C1675L
- Q10 : 25C1959(Y)
- Q12 : 25K19(GR)
- Q15,21 : 25A1015(Y)
- Q22 : 25C1815(GR)
- Q24 : 25A562(Y)
- D1~4,11~14,23,24,26 : IN60
- D5 : WZ-061
- D6~9 : 152588
- D15 : 151587
- D17~22,25,27~29 : 151555

■ : Not used



- Q1,18:2SC2240(GR) Q2:μPC14305H
- Q3:2SA473(Y)
- Q4-6,10,11,14,16,17,19,20,23,25:2SC1815(Y)
- Q7:HA1366W or HA1366WR
- Q8,13:2SC460(B) or 2SC1675L Q9:2SC1959(Y)
- Q12:2SK19(GR) Q15,21:2SA1015(Y)
- Q22:2SC1815(GR) Q24:2SA562(Y)
- D1-4,11-14,23,24,26:1N60 D5:WZ-061
- D15:1S1587 D17-22,25,27-29:1S1555

■ : Not used

PARTS LIST

Differences between TS-130S and TS-130SE. N : New parts

	TS-130S		TS-130SE
GENERAL			
Case (B)	A01-0784-02	N	A01-0921-02
Name plate T	B43-0645-04	N	B43-0673-04
Name plate K,W	B43-0646-04	N	B43-0674-04
Instruction manual T	B50-2751-00	N	B50-3953-00
Instruction manual K,W	B50-2750-00	N	B50-3954-00
7P DIN plug	E07-0751-05		Delete
Phone plug	E12-0001-05		Delete
DC cord with plug	E30-1632-05		Delete
Heat sink cover	F07-0826-03		Delete
Fan	F09-0405-14		Delete
Fan motor housing	F29-0406-03		Delete
Packing carton (inside) T	H01-2706-04	N	H01-4403-04
Packing carton (inside) K,W	H01-2705-04	N	H01-4404-04
Packing carton (outside)	H03-1769-04		Delete
Motor mounting hardware	J21-2631-04		Delete
Fan motor	T40-0301-05		Delete
AF-GEN unit	X49-1110-01	N	X49-1110-11
AF-GEN UNIT			
C38	CC45CH1H100D		CC45CH1H050C
C39	CC45SL1H180J		CC45SL1H220J
TC3-5	C05-0030-15		Delete
L8	L40-1021-03		Delete
Crystal socket	E18-0401-05		E18-0201-05
Mini connector	E40-0911-05		E40-0373-05
Capacitor	C26-32,34		Delete
Resistor	R27-34,113		Delete
Diode	D6-9		Delete

CIRCUIT CHANGES, TS-130S SERVICE MANUAL

In the TS-130S Service Manual, please note the following (Also applies to the TS-130SE).

- RF UNIT (X44-1380-00)**
R10 470Ω → 680Ω
- IF UNIT (X48-1300-00)**
C53 3P → 5P
R65 8.2k → 6.8k
Q5 2SK19(GR) → 2SK19(Y)
- PLL UNIT (X50-1700-00)**
Q14 3SK40(L) → 3SK73(GR)
R54 100k → 82k
R55 150k → 120k
- FINAL UNIT (X56-1300-00)**
TM1 S59-1404-05 → S59-1406-05
TM2 S59-1404-05 → Delete

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FA-4 (OPTION) COOLING FAN

SPECIFICATIONS

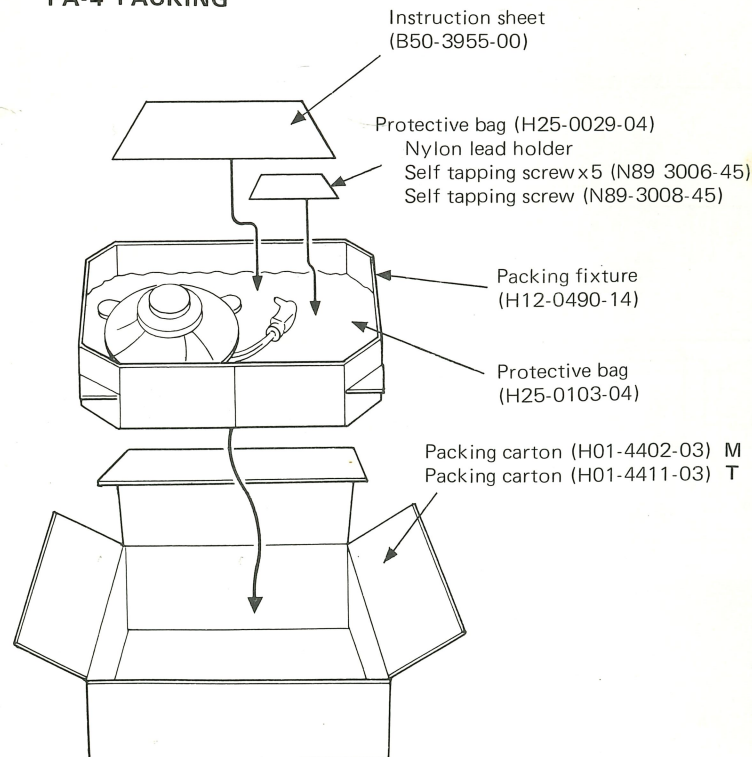
- Operating voltage : 5V DC
- Rotation : 2,000 rpm/5V
- Load current : 40mA/5V
- Weight : Approx. 160 gr.

FA-4 PARTS LIST

N : New parts

Part No.	Re-marks	Description	Ref No.
B50-3955-00	N	Instruction sheet	
E30-1632-05		DC cord with plug	
F07-0826-03		Heat sink cover	
F09-0405-14		Fan	
F29-0406-03		Fan motor housing	
H01-4402-03	N	Packing carton (inside) M	
H01-4411-03	N	Packing carton (inside) T	
H12-0490-14	N	Packing fixture	
H25-0029-04		Protective bag 60 x 110	
H25-0103-04		Protective bag 125 x 250	
J21-2631-04		Motor mounting hardware	
N15-1030-46		Washer x 4	
N30-2604-46		Round screw	
N89-3006-45		Self tapping screw (3x6) x 9	
N89-3008-45		Self tapping screw (3x8)	
T40-0301-05		Fan motor	

FA-4 PACKING



SERVICE MANUAL

**TS-130SE, FA-4
HF SSB TRANSCEIVER**



TS-130S SERVICE MANUAL SUPPLEMENT

Differences between TS-130S and TS-130SE.

	TS-130S	TS-130SE
Fan motor	SUPPLIED	OPTIONAL
FIX CH	4 CH	1 CH
Packing carton	Double	Single
DIN plug	Supplied	Not supplied
SP plug	Supplied	Not supplied

A product of
TRIO-KENWOOD CORPORATION
17-5, 2-chome, Shibuya, Shibuya-ku, Tokyo 150, Japan

TRIO-KENWOOD COMMUNICATIONS
1111 West Walnut Street Compton California 90220 U.S.A.
TRIO-KENWOOD COMMUNICATIONS, GmbH
D-6374 Steinbach TS, Industriestrasse 8A, West Germany
TRIO-KENWOOD(AUSTRALIA)PTY. LTD.
4E Woodcock Place, Lane Cove N.S.W. Australia 2066