













# NOTES:

- 1)  B (+) power supply  B (-) power supply
- 2)  Signal path (NORMAL)  
 Signal path (NARROW)
- 3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals.  
 The voltages with no designation have a NORMAL.  
 But ( ) is with NARROW.
- 4) Resistors with no designation have a rated power of 1/4W and a tolerance of  $\pm 5\%$ .
- 5) Capacitors with no designation have a dielectric strength of less than 50WV.
- 6) The only capacitor tolerances indicated are  $\pm 5\%$  (J) and  $\pm 10\%$  (K).
- 7) Ceramic capacitor symbols:  
 For temperature compensation (SL)  
 High dielectric constant system (YW, YP, YZ)  
 For temperature compensation (SH)
- 8) Explanation of symbols:  
 Mylar capacitor  
 Polypropylene film capacitor  
 Bi-polarized capacitor  
 Fuse resistor  
 Safety component symbol  
 This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.
- This schematic diagram is subject to change without notice in the interests of improved performance.



ISI88



ITT310



ISI885



ISI555



AY222S



LN310GP



XZ 057  
XZ 062  
XZ 068  
XZ 090  
HZ 12BIL



SEL-103C  
SEL-303C



2SD571



LN212RP



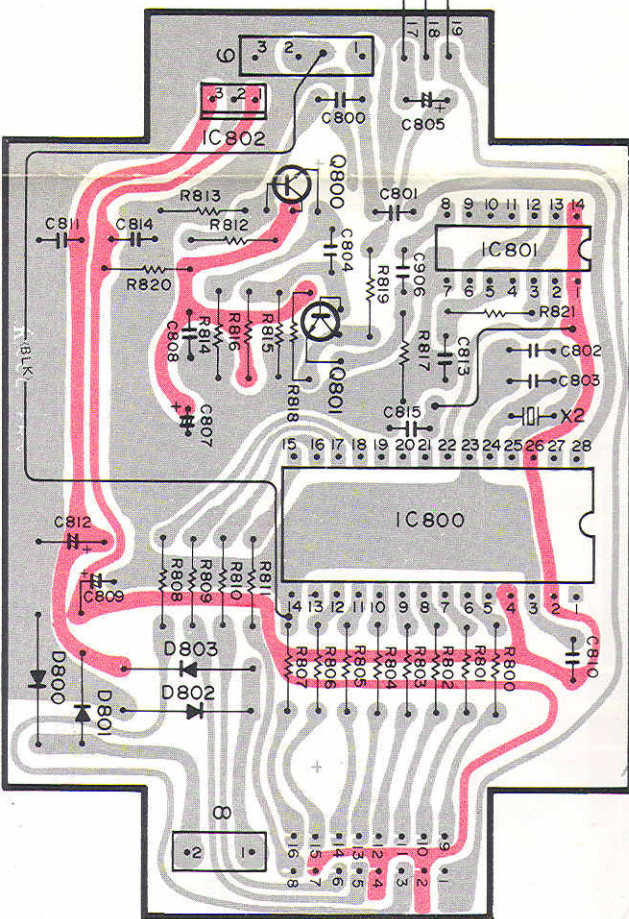
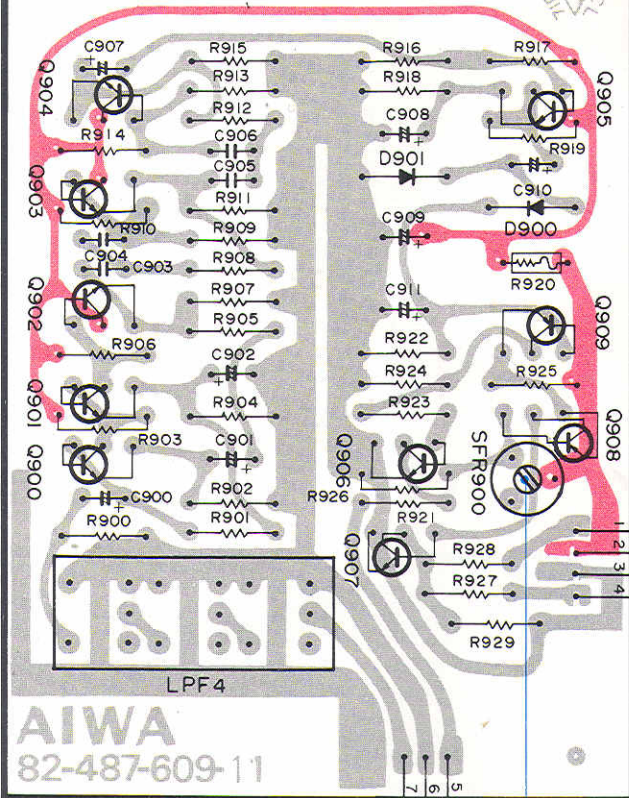
2SC752



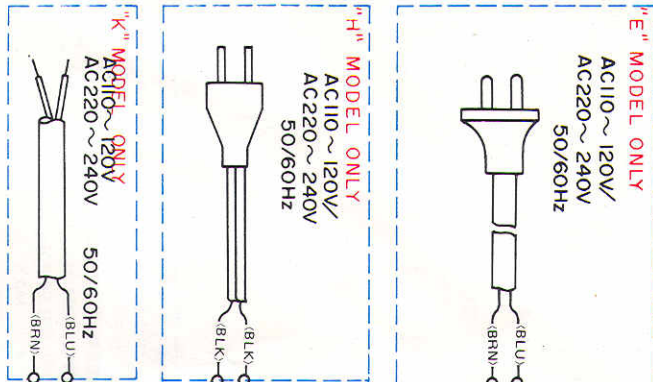
2SA562

AIWA  
82-487-609-11

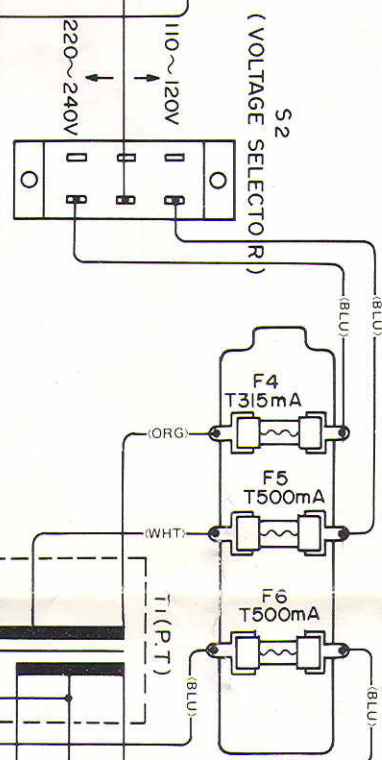
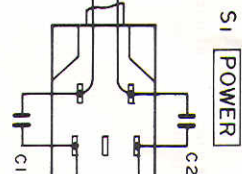
## B QUARTZ CONTROLLED SERVO LOCK C.B.



## C COUNTER C.B.



## A MAIN C.B.

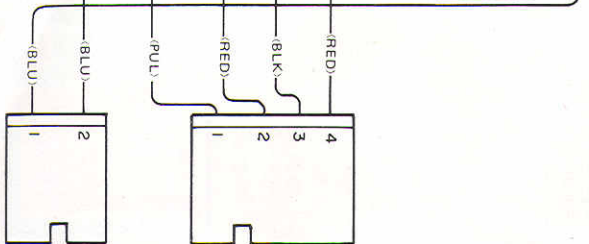


**11 Locked LED Adjustment**  
Settings: • Input signal: 98 MHz, 66 dB, 1 kHz (Mod. freq.), MOD. ON

- MODE SELECTOR: AUTO
- INDICATOR SELECTOR: MUTING OFF
- SELECTIVITY SELECTOR: NORMAL
- Test point: TP2, 3
- Adjustment location: SFR 900

Method: Adjust SFR900 so that the LED light up when detuning level is 100 mV. Confirm that the LED vanish out v,hen detuning level is 100 ~ 130 mV.

Rating: 100 ± 30 mV

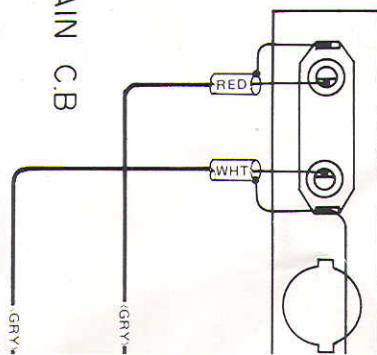


## A MAIN C.B.

## C COUNTER C.B.

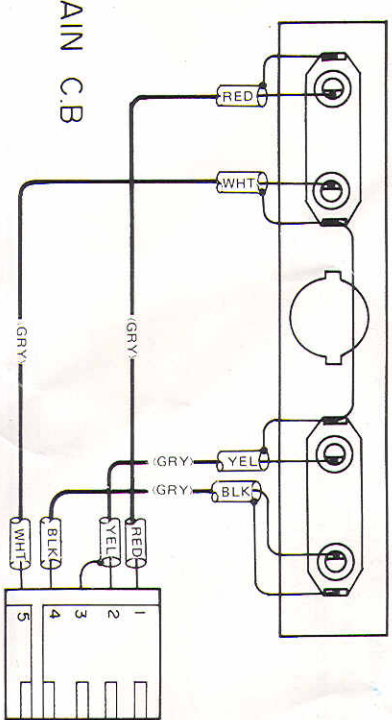
## A MAIN

VARIABLE OUTPUT  
J1 LEFT J2 RIGHT



**VARIABLE OUTPUT**  
J1 LEFT J2 RIGHT

**FIXED OUTPUT**  
J3 LEFT J4 RIGHT



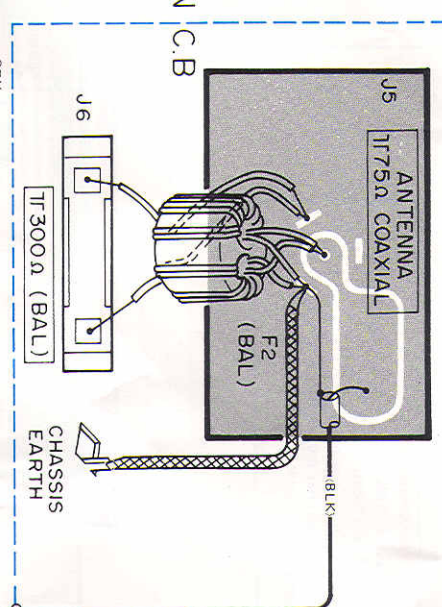
4 → **A MAIN C.B**

8 → **COUNTER C.B**

**COUNTER C.B** → 9

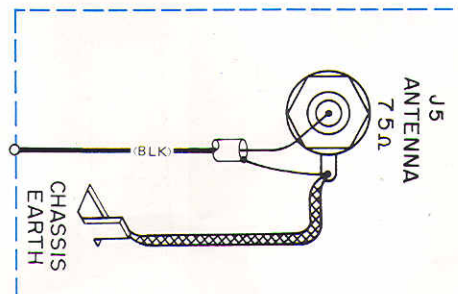
**A MAIN C.B** → 2

## H ANTENNA C.B

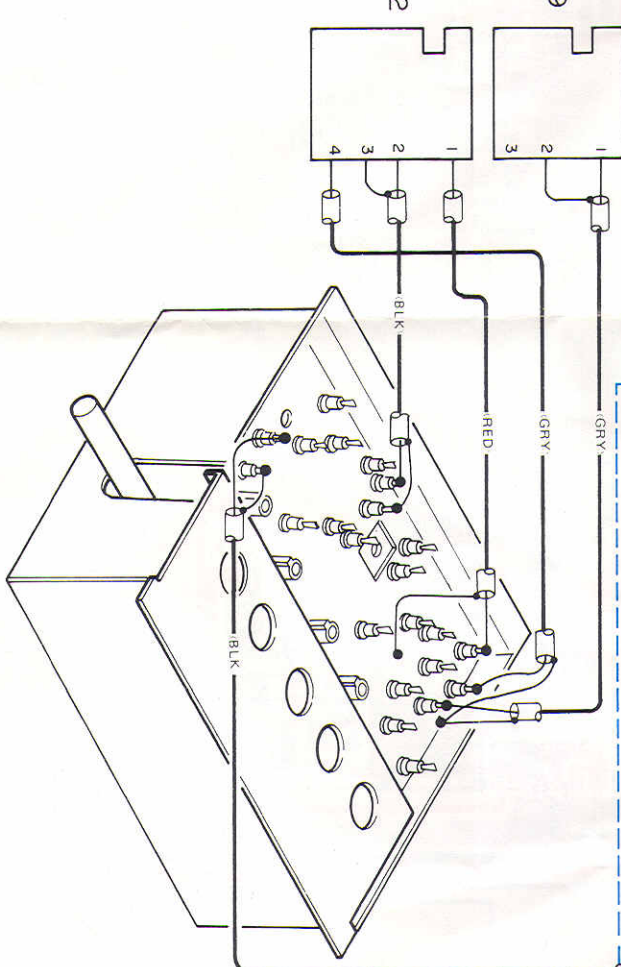
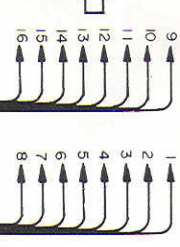
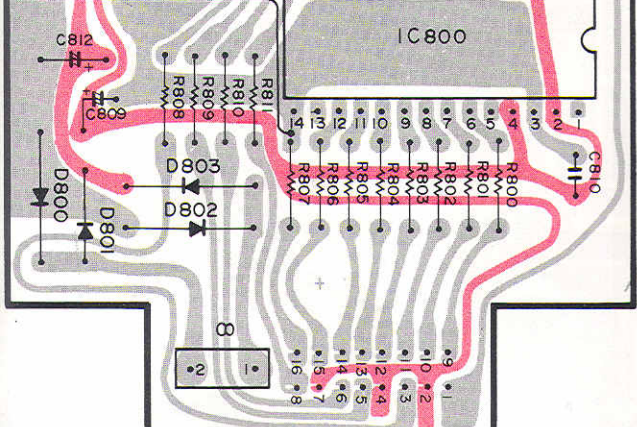


"E" "K" MODEL ONLY

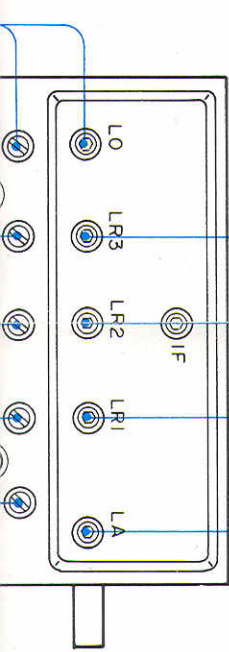
"H" MODEL ONLY



## COUNTER C.B



(FM FRONTEND)



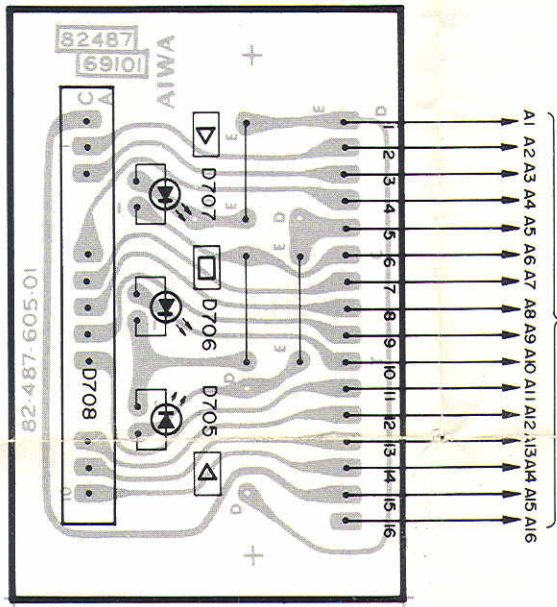
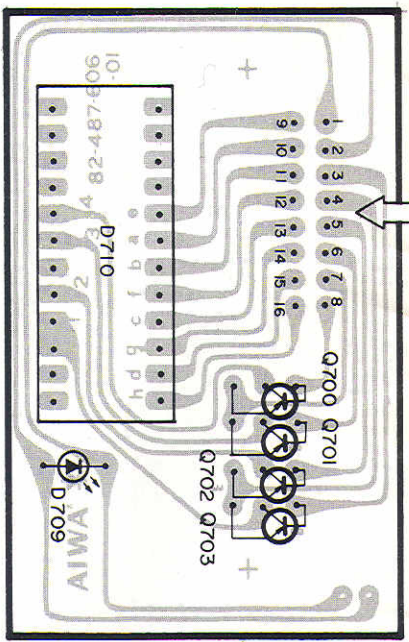
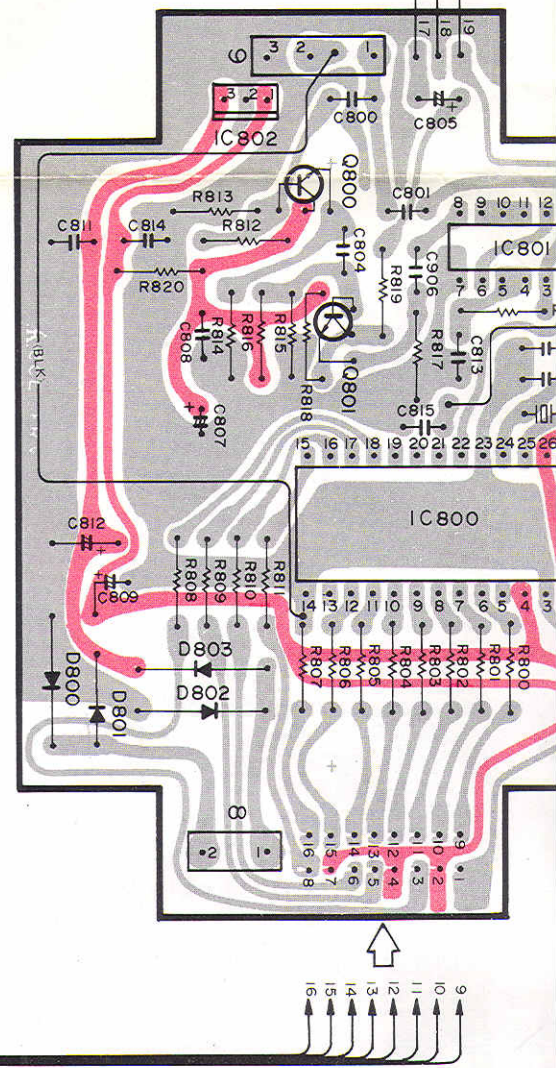
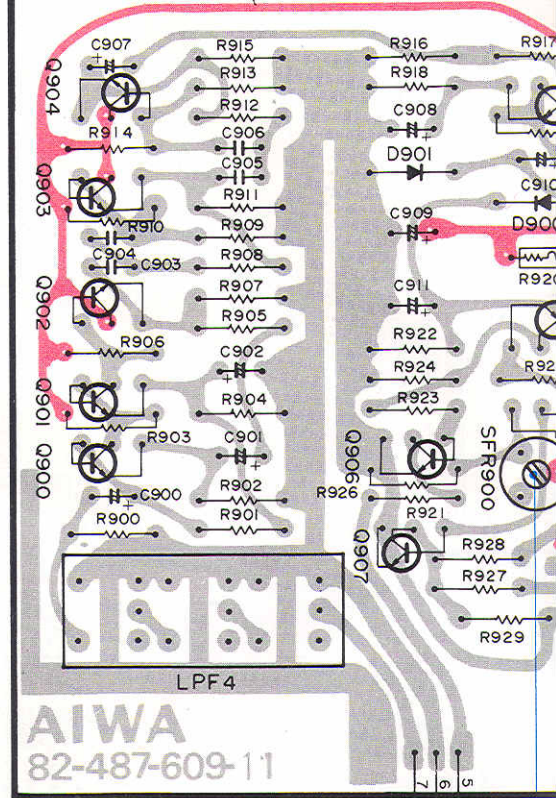
### 3 Sensitivity (at Distortion 3%) Adjustment

**Settings:**

- Input signal: 88, 98, 108 MHz, 10 dB, 1 kHz (Mod. freq.)
- Adjustment location: LA, LR1, 2, 3, TCA, TCRI, 2, 3, IFT2, 3, 4

**Method:** Adjust so that the distortion 3% sensitivity is 5 dB.

**Rating:** 5 ± 2 dB



A MAIN C.B

A MAIN C.B

FREQUENCY(MHz)

LOCKED

TUNING INDICATOR

PL1 (DIAL LAMP)

PL2 (DIAL NEEDLE)

NARROW

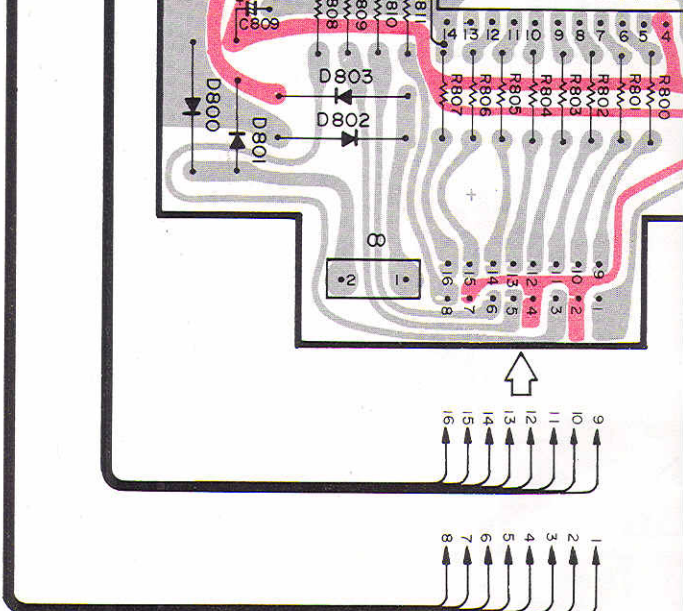
LED-1 C.B

LED-2 C.B

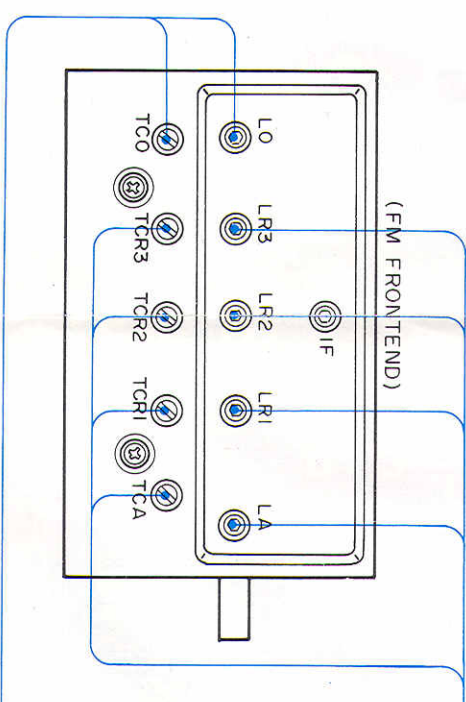
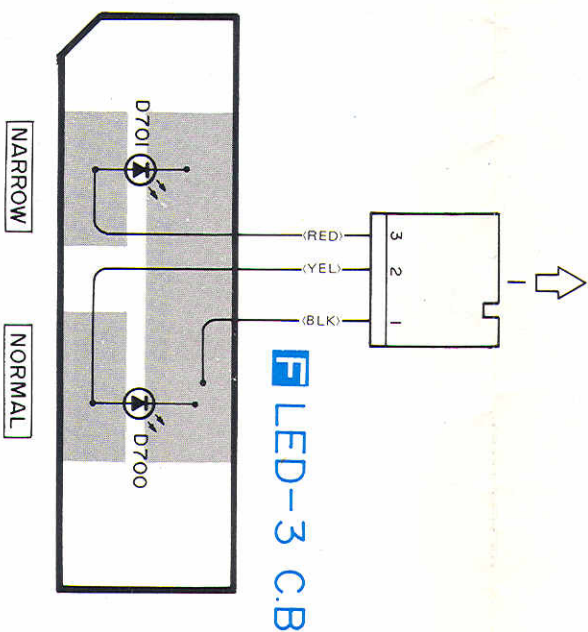
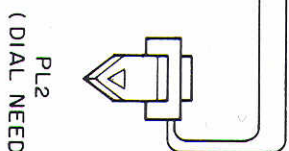
NOTES (1) B (+) Pattern

Others pattern (2)

The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no



## A MAIN C.B

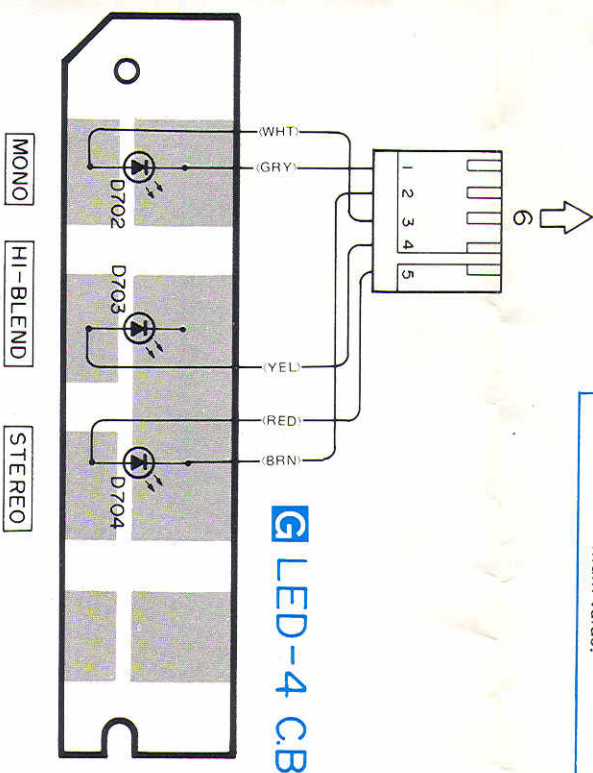


## 3 Sensitivity (at Distortion 3%) Adjustment

- Settings:**
- Input signal: 88, 98, 108 MHz, 10 dB, 1 kHz (Mod. freq.) MOD. ON
  - Adjustment location: LA, LR1, 2, 3, TCA, TCR1, 2, 3, IFT2, 3, 4
- Method:** Adjust so that the distortion 3% sensitivity is 5 dB.
- Rating:** 5 ± 2 dB

## 2 Frequency Range Adjustment

- Settings:**
- Input signal: 10 dB, 1 kHz (Mod. freq.) 75Ω (Antenna terminal)
  - MODE SELECTOR: AUTO
  - INDICATOR SELECTOR: MUTING OFF
  - SELECTIVITY SELECTOR: NORMAL
  - Adjustment location: LO (87.4 MHz), TCO (109.0 MHz) West Germany Model: LO (87.5 MHz), TCO (108.0 MHz)
- Method:** Adjust LO, TCO so that the distortion is brought to its minimum value.



How to change the upper limit of FM frequency range from 108 MHz to 104 MHz

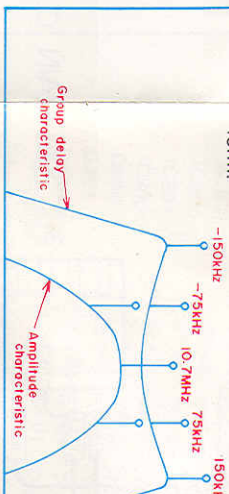
Description	108 MHz	104 MHz
FM front end	82-487-645-01	82-487-695-0

### 16 Free Running Adjustment

- Settings:**
- Test point: TP8
  - Adjustment location: SFR5
- For others, proceed as for 11. 12. Phase adjustment.
- Method:** Adjust SFR5 so that the frequency is 152,000 Hz
- Rating:** 152,000 Hz  $\pm$  0.001%

### 1 Group delay characteristic Adjustment

- Settings:**
- Adjustment location: IFT 1, SFR 1, 2, TC 1, 2
- Method:** Adjustment used to the direct viewing system. Adjust IFT 1 so that the amplitude characteristic level is maximum. Adjust SFR 1, 2 and TC 1, 2 so that the group delay characteristic is below wave form.



### 12 Phase Adjustment

- Settings:**
- Input signal: 98 MHz, 66 dB, 1 kHz (Mod. freq.), MOD. OFF, 90%(L + R)
  - MODE SELECTOR: AUTO
  - INDICATOR SELECTOR: MUTING OFF
  - SELECTIVITY SELECTOR: NORMAL
  - Test point: TP7
  - Adjustment location: SFR4
- Method:** Adjust SFR4 so that the level is 0 V.
- Rating:** 0  $\pm$  0.5 V

### 14 Separation Adjustment

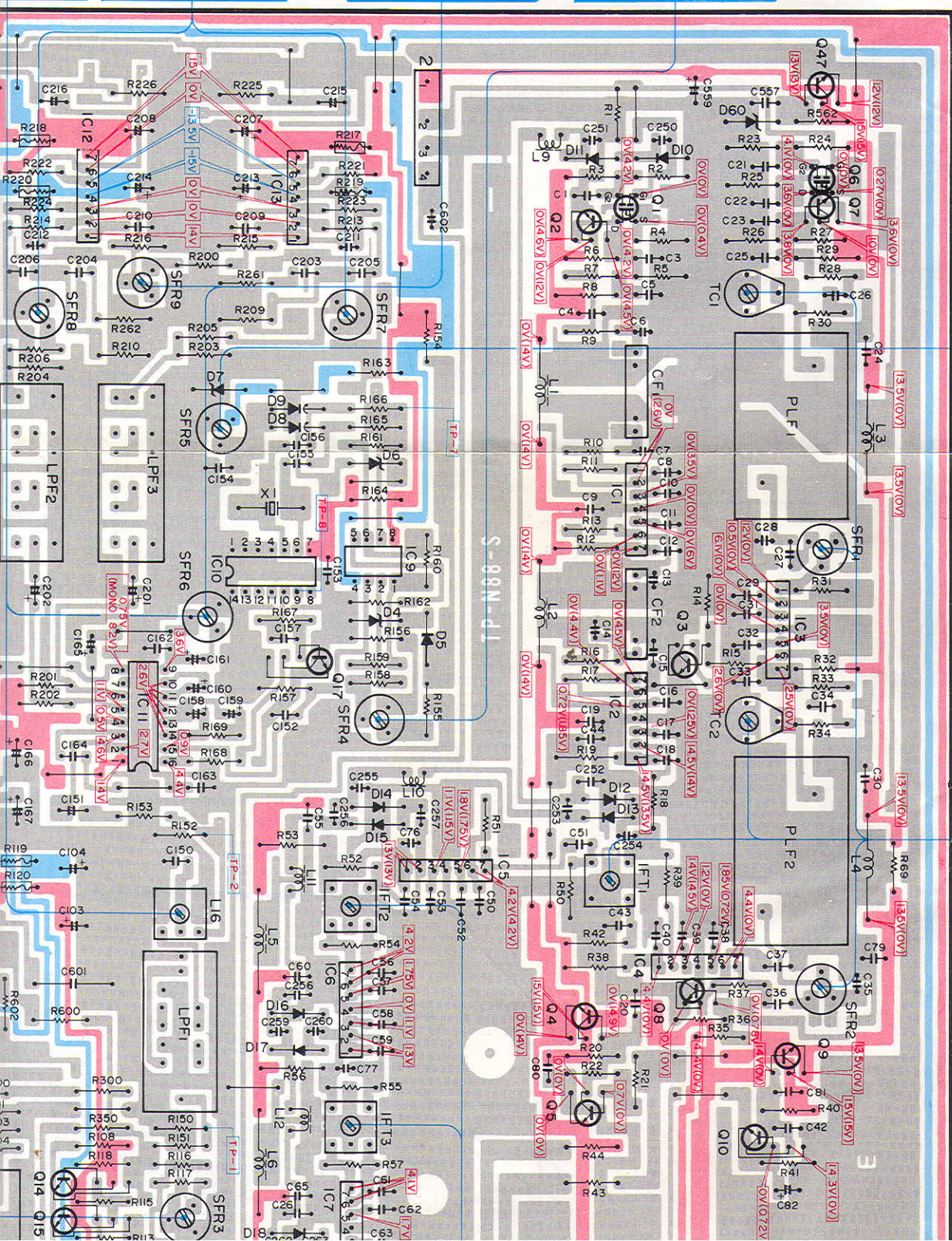
- Settings:**
- Input signal: 98 MHz, 66 dB, 1 kHz (Mod. freq.), MOD. ON
  - Test point: TP8
  - Adjustment location: SFR9, SFR6
- For others, proceed as for 12. Phase adjustment.
- Method:** Adjust SFR9 so that the separation is more than 53 dB. And adjust SFR6 so that leakage is minimum value.
- Rating:** More than 53 dB

### 9 Frequency Response Adjustment

- Settings:**
- Input signal: 10.7 MHz, 96 dB, 100 Hz, 1 kHz, 3 kHz (Mod. freq.), MOD. ON
  - MODE SELECTOR: AUTO
  - INDICATOR SELECTOR: MUTING OFF
  - SELECTIVITY SELECTOR: NORMAL
  - Test point: VARIABLE OUTPUT
  - Adjustment location: SFR 7 (L-ch), SFR 8 (R-ch)
- Method:** Adjust so that the 100 Hz and 3 kHz outputs are identical.

### 15 Carrier Leak Adjustment

- Settings:**
- Input signal: 98 MHz, 66 dB, 1 kHz (Mod. freq.), MOD. ON
  - Test point: VARIABLE OUTPUT
  - Adjustment location: SFR6, L16



st IFT 1 so  
just SFR 1,  
below wave

#### 7 Limiter Level Adjustment

- Settings:
- Input signal: 10.7 MHz, 30 dB, 1 kHz (Mod. freq.), MOD. ON
  - Test point: TP6
  - Adjustment location: IFT2, 3, 4
- For others, proceed as for 4. 10.7 MHz Trap Coil adjustment.
- Method: Adjust IFT2, 3, 4 so that the voltage is brought to its maximum value.
- Rating: 1,000 mV

#### 6 Distortion (MONO) Adjustment

- Settings:
- Input signal: 10.7 MHz, 96 dB, 1 kHz (Mod. freq.), MOD. ON
  - Test point: VARIABLE OUTPUT
  - Adjustment location: IFT5
- For others, proceed as for 4. 10.7 MHz Trap Coil adjustment.
- Method: Adjust IFT5 so that the distortion becomes the same for both left and right channels.
- Rating:  $0.02 \pm 0.01\%$

#### 4 10.7 MHz Trap Coil Adjustment

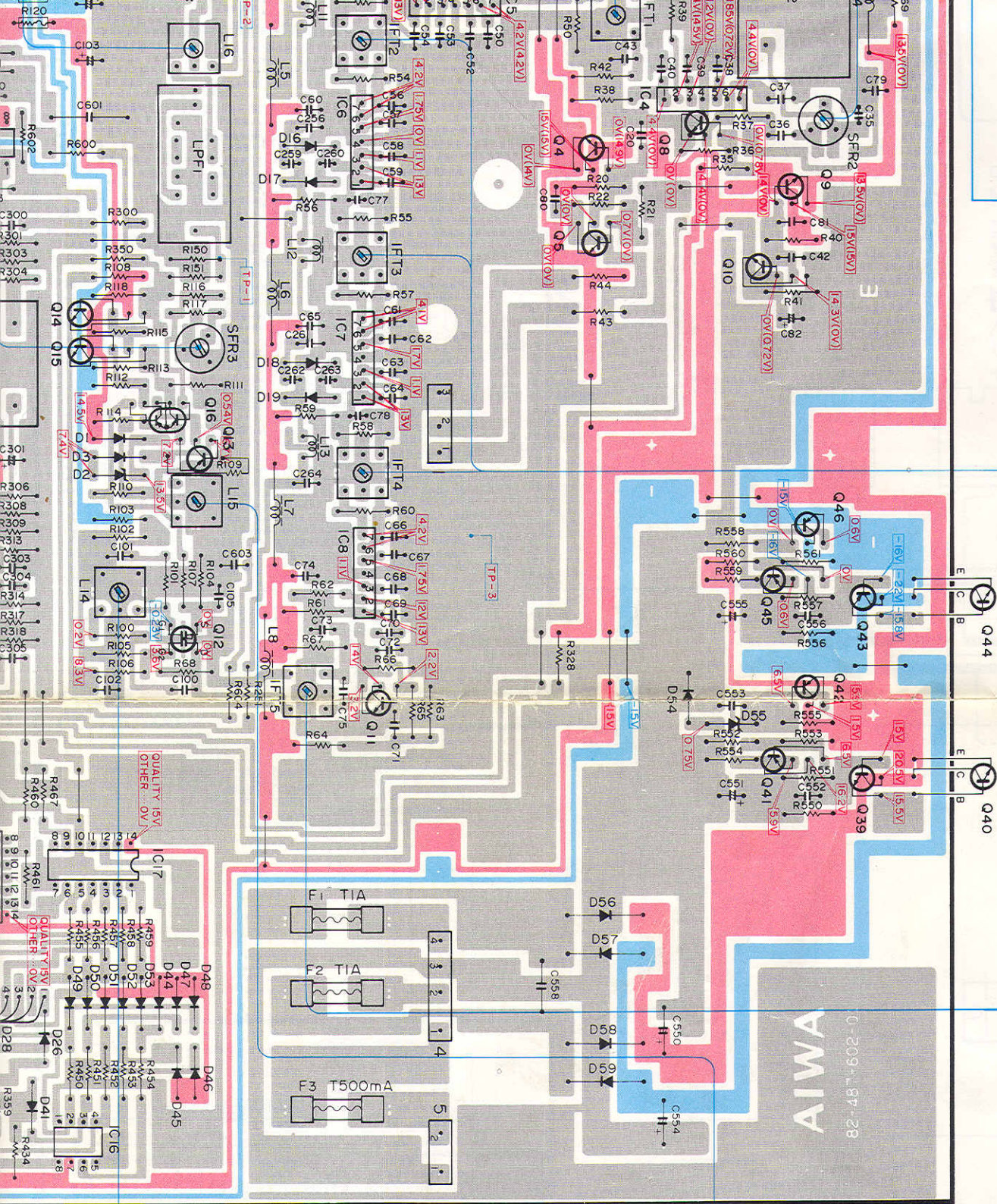
- Settings:
- Input signal: 10.7 MHz, 96 dB, 1 kHz (Mod. freq.), MOD. OFF
  - MODE SELECTOR: AUTO
  - INDICATOR SELECTOR: MUTING OFF
  - SELECTIVITY SELECTOR: NORMAL
  - OUTPUT LEVEL: MAX
  - Test point: TP1, TP3
  - Adjustment location: L15
- Method: Adjust L15 so that the output level is reduced to minimum value.

#### 5 DC Zero Center Adjustment

- Settings:
- Test point: TP2, TP3
  - Adjustment location: L14
- For others, proceed as for 4. 10.7 MHz Trap Coil adjustment.
- Method: Pointer is oscillated right and left of indicator points "0" center.

#### 13 Muting Level Adjustment

- Settings:
- Input signal: 98 MHz, 66 dB, 1 kHz (Mod. freq.), MOD. OFF
  - Test point: VARIABLE OUTPUT



ON

- Test point: TP8
- Adjustment location: SFR9, SFR6
- For others, proceed as for 12. Phase adjustment.
- Method: Adjust SFR9 so that the separation is more than 53 dB. And adjust SFR6 so that leakage is minimum value.
- Rating: More than 53 dB

#### 9 Frequency Response Adjustment

- Settings: • Input signal: 10.7 MHz, 96 dB, 100 Hz, 1 kHz, 3 kHz (Mod. freq.), MOD. ON

- MODE SELECTOR: AUTO
- INDICATOR SELECTOR: MUTING OFF
- SELECTIVITY SELECTOR: NORMAL
- Test point: VARIABLE OUTPUT
- Adjustment location: SFR 7 (L-ch), SFR 8 (R-ch)
- Adjustment so that the 100 Hz and 3 kHz outputs are identical.

#### 15 Carrier Leak Adjustment

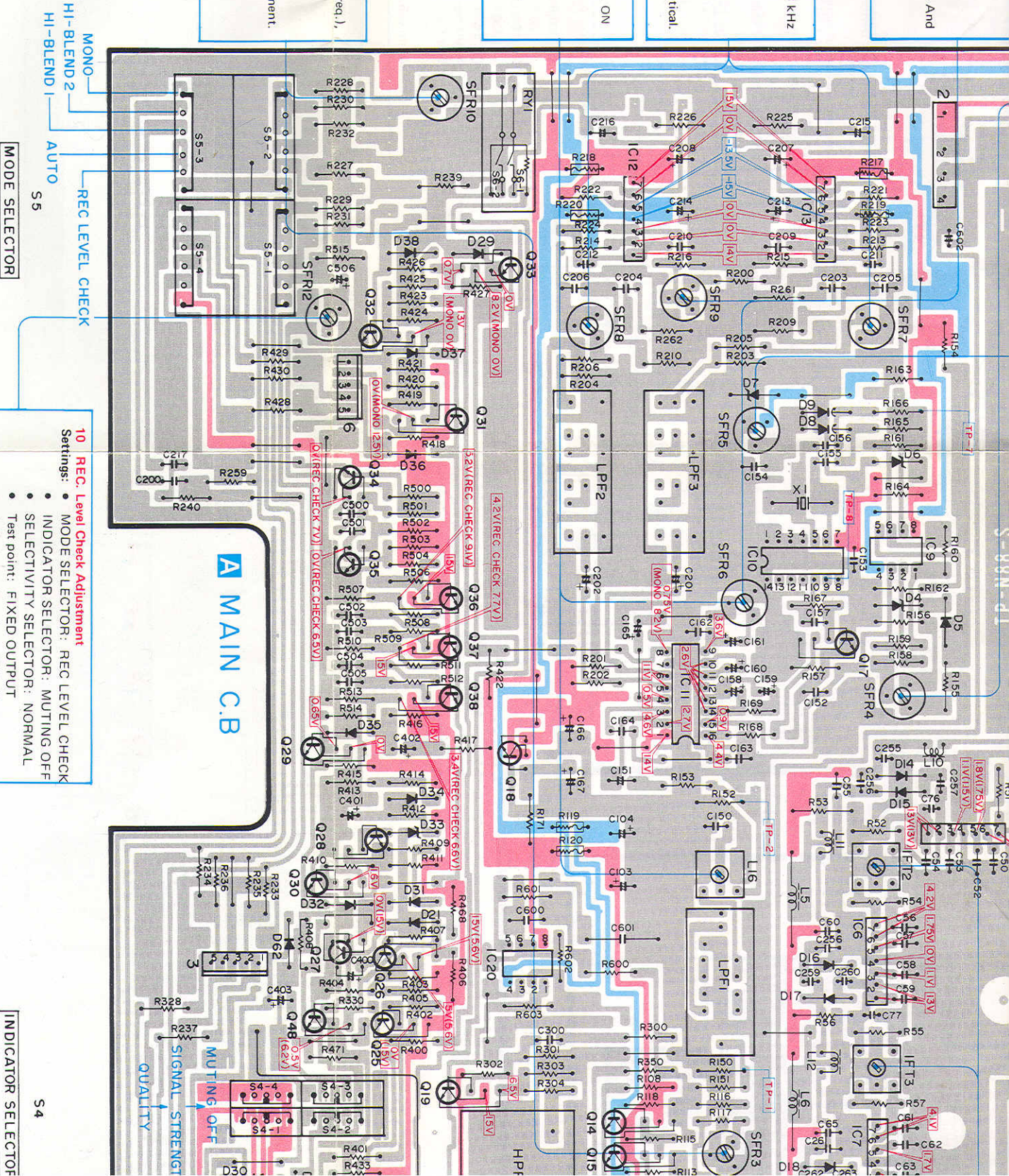
- Settings: • Input signal: 98 MHz, 66 dB, 1 kHz (Mod. freq.), MOD. ON  
L + R (MOD. 0, 90%)

- Test point: VARIABLE OUTPUT
- Adjustment location: SFR6, L16
- For others, proceed as for 12. Phase adjustment.
- Method: Adjust SFR6, L16 so that the carrier leak is more than 70 dB.
- Rating: More than 70 dB

#### 8 Fixed Output Level Adjustment

- Settings: • Input signal: 10.7 MHz, 96 dB, 400 Hz (Mod. freq.), MOD. ON

- Test point: FIXED OUTPUT
- Adjustment location: SFR3, SFR10 (R-ch)
- For others, proceed as for 4. 10.7 MHz Trap Coil adjustment.
- Method: Adjust SFR3 and SFR10 (R-ch) so that the output becomes the same for both left and right channels.
- Rating: 500 mV



#### 10 REC. Level Check Adjustment

- Settings: • MODE SELECTOR: REC LEVEL CHECK
- INDICATOR SELECTOR: MUTING OFF
- SELECTIVITY SELECTOR: NORMAL
- Test point: FIXED OUTPUT
- Adjustment location: SFR 12

- Method: Adjust so that the output becomes 250 mV.
- Rating: 250 ± 5 mV.

INDICATOR SELECTOR

S4

A MAIN C.B.

SIGNAL STRENGTH

MUTING OFF

QUALITY

S5-1

S5-2

S5-3

S5-4

S5-5

S5-6

S5-7

S5-8

S5-9

S5-10

S5-11

S5-12

S5-13

S5-14

S5-15

S5-16

S5-17

S5-18

S5-19

S5-20

S5-21

S5-22

S5-23

S5-24

S5-25

S5-26

S5-27

S5-28

S5-29

S5-30

S5-31

S5-32

S5-33

S5-34

S5-35

S5-36

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S5-247

S5-248

S5-249

S5-250

S5-251

S5-252

S5-253

S5-254

S5-255

S5-256



ELECTRICAL MAIN PARTS LIST

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
≪ MAIN CIRCUIT BOARD SECTION ≫								
PCB-A	82-487-602-11	Main circuit board	R119,120, 217,218, 219,220, 305	87-029-023-01	< Resistor > 47Ω 1/4W Fuse resistor	△ F4	87-035-217-01	Fuse, "T" 315mA
IC1,3	87-027-288-01	IC, TA7302 P	R552	87-029-068-01	1.5kΩ 1/4W ±2% Metal film	△ F5,6	87-098-011-01	Fuse label, "T" 315mA
IC2,4,5, 6,7,8	87-027-290-01	IC, μPC1163 H	R553	87-029-069-01	2kΩ 1/4W ±2% Metal film	△ S1	87-098-013-01	Fuse holder, 3P
IC9,14,15,20	87-027-235-01	IC, NJM-4558 D	R233,234, 235,236	87-029-062-01	5.1kΩ 1/4W ±2% Metal film	△ S2	87-031-408-01	Push switch (POWER)
IC10	87-027-291-01	IC, MSM5577				PL1	82-487-661-01	Slide switch (VOLTAGE SELECTOR)
IC11	87-027-292-01	IC, HA11223 W					87-031-364-01	Pilot lamp, 12V 0.3A (DIAL LAMP)
IC12,13	87-027-289-01	IC, TA7136 P				PL2	82-487-663-01	Pilot lamp, 12V 40mA (DIAL NEEDLE)
IC16,18	87-027-268-01	IC, SN16889 P				CON-5	82-487-671-01	Connector ass'y, 2P
IC17,19	87-027-293-01	IC, SN16880 N				CON-1	82-487-670-01	Connector ass'y, 3P
O1,6	87-026-148-01	FET, 3SK40 (L)				CON-9	82-487-674-01	Connector ass'y, 3P
O2,3,7,8,11	89-319-233-01	Transistor, 2SC1923 (O)				CON-7	82-487-675-01	Connector ass'y, 4P
O4,9,47	89-405-712-01	Transistor, 2SD571 (L)				CON-2	82-487-677-01	Connector ass'y, 4P
O5,10,19,21, 22,23,24, 26,27,28, 29,30,31, 32,33,34, 35,36,37, 38,39,41, 42,48	89-318-154-01	Transistor, 2SC1815 (Y)				CON-6	82-487-673-01	Connector ass'y, 5P
O12	87-026-149-01	FET, 3SK40 (K)				CON-3	82-487-672-01	Connector ass'y, 5P
O13	89-107-336-01	Transistor, 2SA733 (P)				△ C1,2	84-190-622-01	< Capacitor > 0.1μF 250V Line capacitor
O14,15	89-314-005-01	Transistor, 2SC1400 (E)						
O16	89-107-985-01	Transistor, 2SA798 (G)						
O17	89-307-524-01	Transistor, 2SC752 (G, Y)						
O18	89-319-594-01	Transistor, 2SC1959 (Y)						
O20,43,45, 46	89-110-154-01	Transistor, 2SA1015 (Y)						
O25	89-105-624-01	Transistor, 2SA562 Y (TM)						
O40	89-405-264-01	Transistor, 2SD526 (Y)						
O44	89-204-354-01	Transistor, 2SB435 (Y)						
D1,3,5,20,21, 22,23,24, 25,26,27, 28,29,30, 31,32,34, 35,36,37, 38,39,40, 41,42,43, 44,45,46, 47,48,49, 50,51,52, 53,54,61, 62,63	87-027-097-01	Diode, 1S1555						
D2,4,33	87-026-138-01	Zener diode, XZ062						
D6	87-026-139-01	Zener diode, XZ068						
D7	87-026-140-01	Zener diode, XZ090						
D8,9	87-026-136-01	Diode, 1TT310						
D10,11,12, 13,14,15, 16,17,18 19	88-052-188-11	Diode, 1S188 (FM)						
D55	87-026-137-01	Zener diode, XZ057						
D56,57,58, 59	87-027-083-01	Diode, 1S1885						
≪ QUARTZ CONTROLLED BOARD SECTION ≫								
PCB-B	82-487-609-11	Quartz controlled servo lock circuit board						
O900,901, 902,903, 904,905, 906,907	89-318-155-01	Transistor, 2SC1815 (G,R)						
O908,909 D900,901 LPF4 SFR900	89-110-154-01 87-027-097-01 82-487-657-01 87-021-557-01	Transistor, 2SA1015 (Y) Diode, 1S1555 Low-pass filter Semi-fixed resistor, 10kΩ-B						
R920	87-029-023-01	< Resistor > 47Ω 1/4W Fuse resistor						
≪ COUNTER CIRCUIT BOARD SECTION ≫								
PCB-C	82-487-607-21	Counter circuit board						
IC800	87-027-294-01	IC, T-1400 B						
IC801	87-027-302-01	IC, SN74S00						
IC802	87-027-295-01	IC, TA78005P						
O800	89-316-742-01	Transistor, 2SC1674 (L)						
O801	89-316-752-01	Transistor, 2SC1675 (L)						
D800,801, 802,803	87-027-083-01	Diode, 1S1885						
X1	82-487-622-01	Crystal, 6.4MHz						
PIN-8	82-481-649-01	Pin, 2P						
PIN-9	87-032-897-01	Pin, 3P						
≪ LED-1 CIRCUIT BOARD SECTION ≫								
PCB-D	82-487-606-01	LED-1 circuit board						
O700,701, 702,703	89-107-336-01	Transistor, 2SA733 (P)						
D709	87-026-160-01	Light emitting diode, AY222S						
Safety component symbol This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.								

	36,39,40,	41,42,43,	44,45,46,	47,48,49,	50,51,52,	53,54,61,	62,63
	D2,4,33						
	D6						
	D7						
	D8,9						
	D10,11,12,						
	13,14,15,						
	16,17,18						
	19						
	D55						
	D56,57,58,						
	59						
	D60						
	L1,2,3,4,5,6,						
	7,8						
	L9,10,11,12,						
	13						
	L14						
	L15						
	L16						
	TC1,2						
	CF1,2						
	PLF1,2						
	IFT1						
	IFT2,3,4						
	IFT5						
	LPF1						
	LPF2,3						
	HPF1						
	RY1,S6						
	X <sub>1</sub>						
	VR1,2						
	S3,4						
	S5						
△	F1,2						
△	F3						
	SFR1,2,3						
	SFR4						
	SFR5,7,8,						
	11,12						
	SFR6						
	SFR9						
	SFR10						
	PIN-5						
	PIN-1						
	PIN-7						
	PIN-2,4						
	PIN-3,6						

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△ T1		
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J5	82-487-645-01	Front end ass'y
J6	82-306-670-01	4P pin jack ass'y (VARIABLE OUTPUT, FIXED OUTPUT)
	87-032-923-01	Antenna connector (H model only)
	82-488-656-01	FM DIN antenna terminal 300Ω (E,K model only)

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