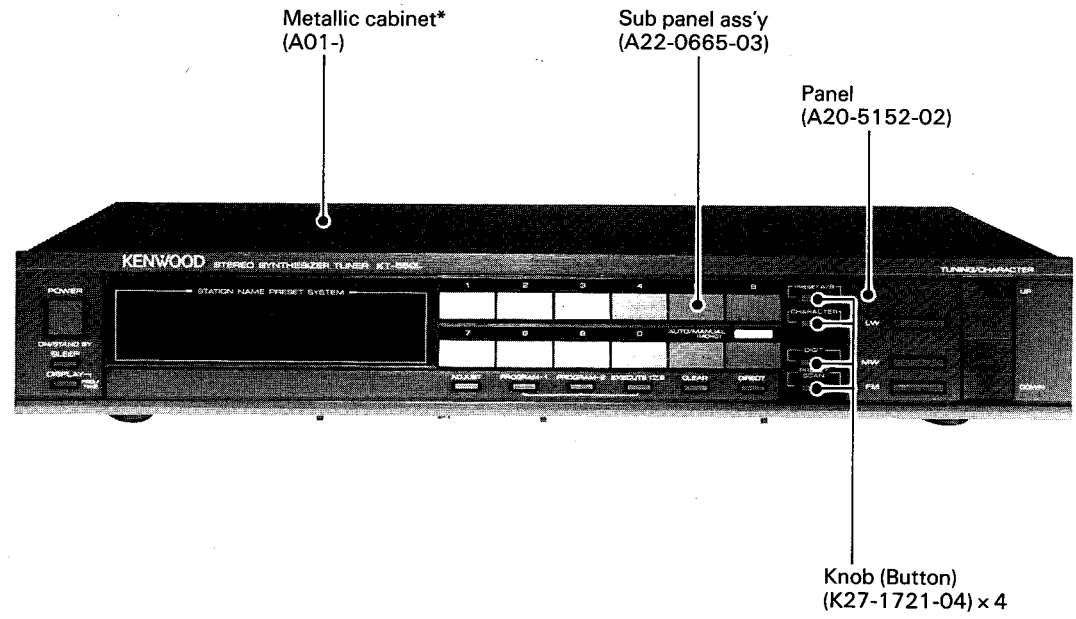
STEREO SYNTHESIZER TUNER

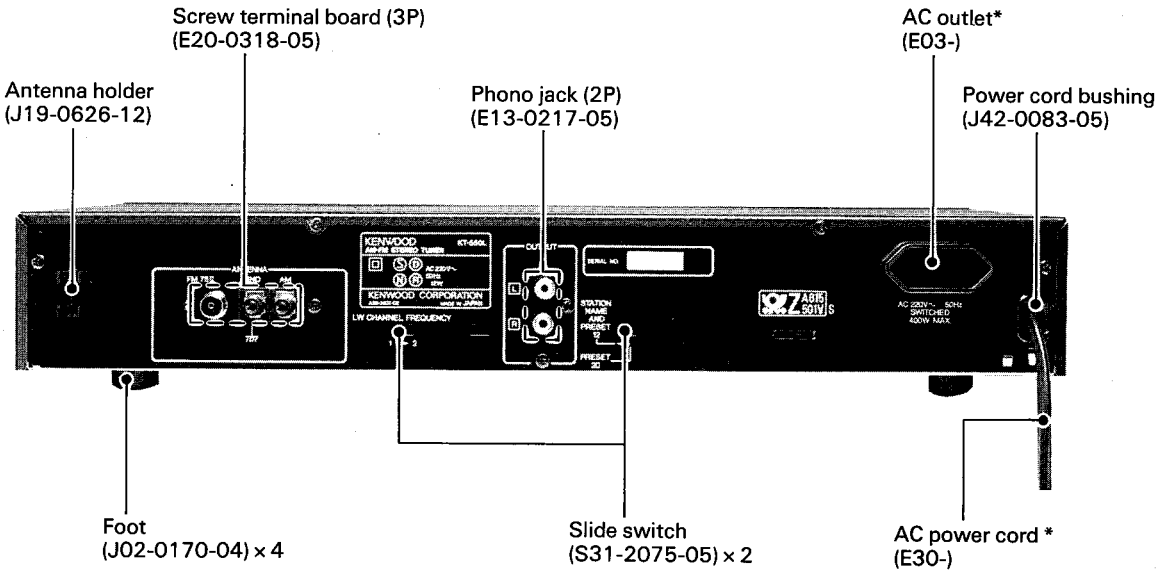
KT-550L

SERVICE MANUAL

KENWOOD

B51-3190-00 (G) 1038





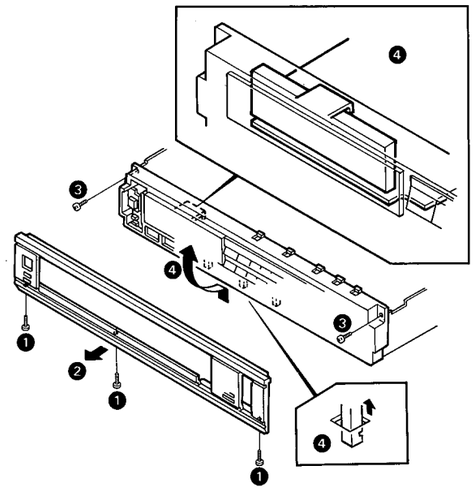
*** Refer to parts list on page 28.**

CONTENTS

DISASSEMBLY FOR REPAIR

Removing the front panel and sub panel

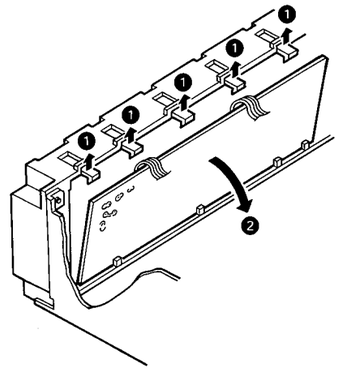
1. Remove the 3 screws fixing the front panel to the sub panel (❶).
2. Remove the front panel in the direction of the arrow (❷).
3. Remove the 2 screws fixing the sub panel to the chassis (❸).
4. Slightly raise the sub panel to disengage bottom 3 claws. Carefully raise the sub panel in the direction of the arrow (❹) to remove it while paying attention to the fluorescent tube display retaining section.



Removing the Tuner Unit (X05-3292-71) (B/4)

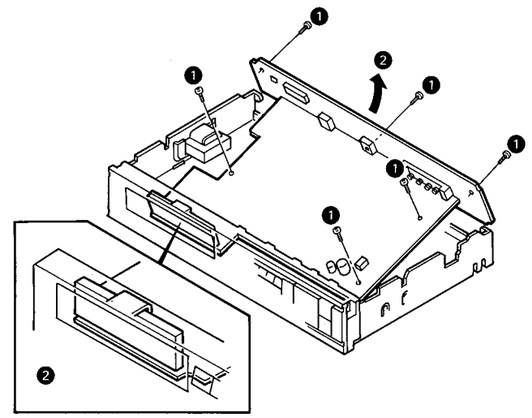
(This procedure can be carried out without removing the front panel.)

1. Disengage the 5 claws fixing the Tuner Unit (X05-) (B/4) (❶).
2. Remove the Tuner Unit (X05-) (B/4) in the direction of the arrow (❷).

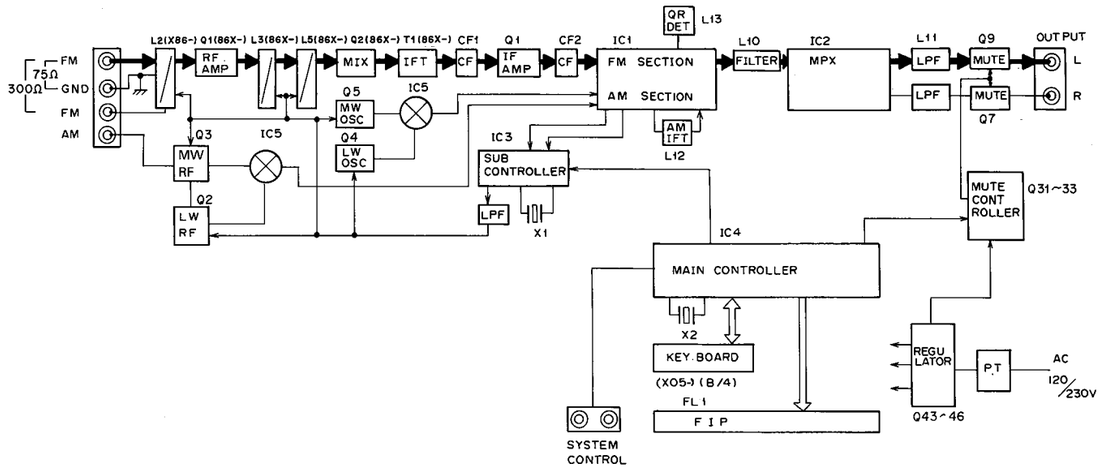


Removing the Tuner Unit (X05-3292-71) (A/4)

1. Remove the metallic cabinet before this operation.
2. Remove the 3 screws fixing the rear panel to the chassis, and remove the 3 screws fixing the Tuner Unit (X05-) (A/4) to the chassis (❶).
3. Remove the Tuner Unit (X05-) (A/4) together with the rear panel in the direction of the arrow (❷).



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

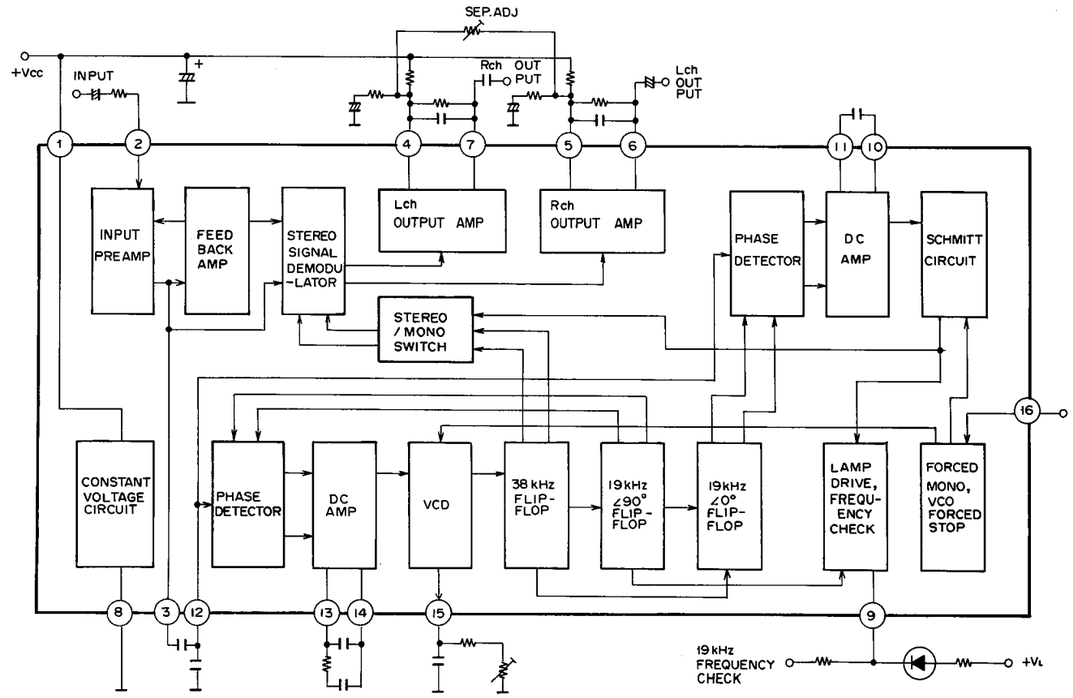
Function of components

Tuner unit (X05-3292-71)

Components	Use/Function	Operation/Condition/Interchangeability
Q1	FM IF amp	10.7 MHz amplifier.
Q2, 3	AM RF switch	LW/MW RF electronic switching.
Q4, 5	AM OSC switch	LW/MW OSC electronic switching.
Q7	Buffer	Impedance switching.
Q8, 9	Muting switch	Muting during function siwtching.
Q10	L.P.F. switch	Time constant switching in LW reception.
Q11, 12	L.P.F.	PLL low-pass filter.
Q13	L.P.F. control	Q10 control. LW position when switched ON.
Q14	Inverter amp	Auto stop control.
Q15, 16	Tuner band switch	FM/AM mode switching.
Q19	AM/FM switch	IC1 mode switching. AM position when switched OFF.
Q31, 32	Muting control	Operates during function switching.
Q33	Muting driver	Operates during function switching.
Q34	Power driver	+12V power supply ON and OFF.
Q35	Inverter amp	Reset control.
Q36	FIP driver	FIP display.
Q37	FIP control	Supplies +5V to Q39 and Q40 when power is turned ON.
Q38	Q36 control	Q36 control with the signal from microcomputer.
Q39	FIP driver	TUNED display.
Q40		STEREO display.
Q41	Preset switch	20-channel preset, 12-channel preset and station name switching.
Q42	Channel switch	FM-AM channel space switching, or LW channel switching.
Q43	Power control	Power ON/OFF control.
Q44	Constant voltage	Stabilization of +12V power.
Q45	Muting control	Muting control when turning power OFF.
Q46	Constant voltage	Stabilization of +5V power, CE control.
IC1	FM/AM system IC	FM IF amplification, detection control. AM MIX, IF amplification, detection control.
IC2	MPX IC	MPX demodulation.
IC3	PLL IC	PLL for electronic tuning.
IC4	Microcomputer	System control.
IC5	Tuner band switch IC	FM/MW/LW band switching.

KT-550L

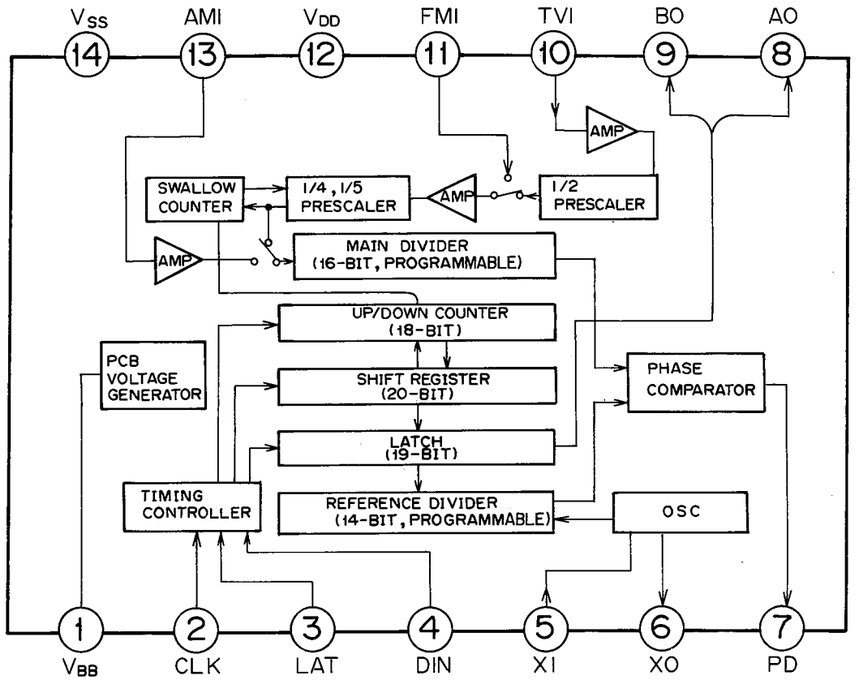
IC2: AN7470
Equivalent block diagram



Terminal connection and functions

Terminal No.	Connection/Function
1	Supply voltage (+Vcc)
2	Stereo composite signal input terminal
3	Input preamp output terminal
4	L CH output amp feedback terminal
5	R CH output amp feedback terminal
6	R CH output amp output terminal
7	L CH output amp output terminal
8	Grounding terminal
9	Stereo display lamp drive and 19 kHz frequency check terminal
10	Stereo signal detector circuit low-pass filter terminal
11	Stereo signal detector circuit low-pass filter terminal
12	PLL circuit input terminal
13	PLL circuit low-pass filter terminal
14	PLL circuit low-pass filter terminal
15	VCO freerun oscillation frequency adjustment terminal
16	Forced mono/forced VCO oscillation stop terminal

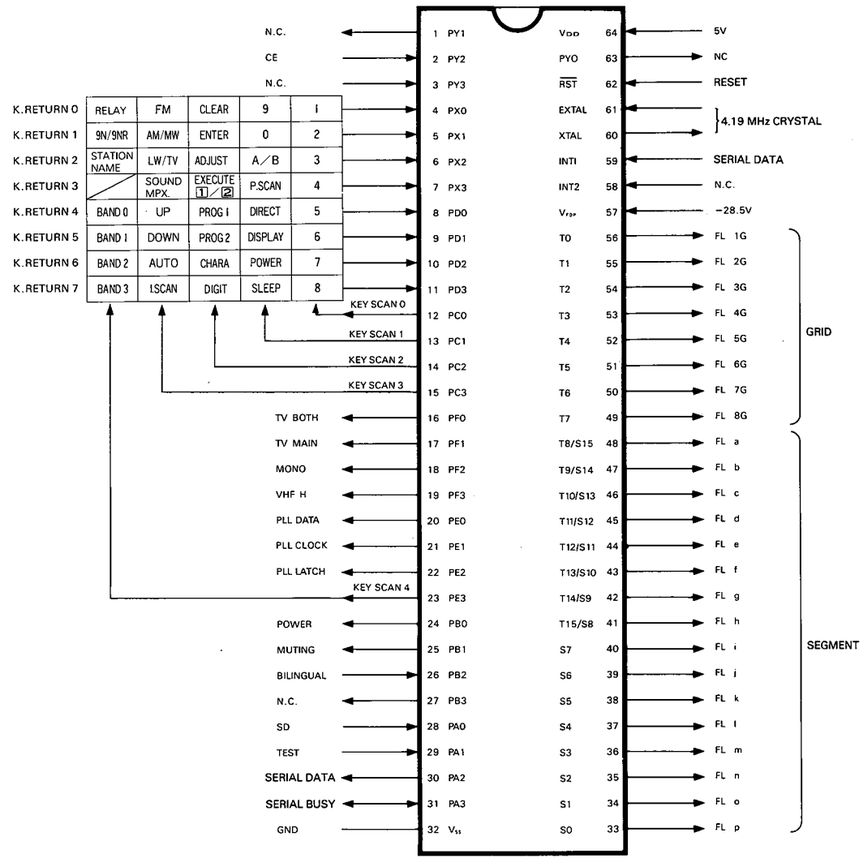
IC3: CX7925B
Block diagram and terminal configuration diagram



Terminal description

Terminal No.	Symbol	Terminal Description
1	V_{BB}	PCB terminal (Connect a 0.01 μF capacitor between the GND).
2	CLK	Input terminal for the clock used for 20-bit serial data input (Shifted at the rise).
3	LAT	Input terminal for the shift register input data latch signal (shifted at the rise) and, at the same time, for the Up/Down clock (status changed at the rise).
4	DIN	Data input terminal, also the Up/Down mode switching terminal (Up mode with "H" level, Down mode with "L" level).
5	XI	Connection terminals for the reference signal generator X'tal oscillator. (Max. 13 MHz, standard 4.0 MHz)
6	XO	
7	PD	Phase comparator output terminal (3-state).
8	AO	External control signal output terminal/Unlock signal output terminal (E/E MOS push-pull).
9	BO	External control signal output terminal/data check terminal (E/E MOS push-pull).
10	TVI	High-frequency signal input terminal (300 MHz or 350 MHz max.). With 1/2 prescaler.
11	FMI	High-frequency signal input terminal (150 MHz or 180 MHz max.).
12	V_{DD}	Power supply (+5V).
13	AMI	High-frequency signal input terminal (40 MHz or 50 MHz max.).
14	V_{SS}	Grouding terminal.

IC4: CXP5016
Key matrix connection



Functions of Diodes and Switches

(0: Without 1: With diode)

Destination Type	Set Switches B3	B2	B1	B0	Band	Receiving Frequency Range	Inter-Channel Space	Intermediate Frequency	PLL Reference Frequency	PLL Input Terminal	Auto Tuning
E2	1	1	0	1	FM	87.5 MHz ~ 108.0 MHz	50 kHz	+10.7 MHz	50 kHz	FM1	O
					MW	531 kHz ~ 1602 kHz	9 kHz	+450 kHz	9 kHz	AMI	O
					LW	153 kHz ~ 281 kHz	1 kHz	+450 kHz	1 kHz	AMI	O
E3	1	1	*1	1	FM	87.5 MHz ~ 108.0 MHz	50 kHz	+10.7 MHz	50 kHz	FMI	O
					MW	531 MHz ~ 1602 kHz	9 kHz	+450 kHz	9 kHz	AMI	O
					LW	153 kHz ~ 281 kHz	1 kHz	+450 kHz	1 kHz	AMI	*X

* With the KT-550L (France made), a diode (ISS133) is added for BAND 1 to perfrom manual tuning in LW only.

9N/9N+2

This switch (S31) is used to select the stopping frequencies in the LW auto tuning. The switch is valid only with the KT-550L Types T and E.

The LW band frequencies are scanned up/down by stopping at 1 kHz intervals in both manual tuning and auto tuning. However, in auto tuning only, this switch allows to set the stopping frequencies as shown below (as long as there are tuned-in stations at these frequencies). This switch is switchable at any time.

9N/9N+2	Stopping Frequencies
0	153, 162, 171, 180, ...270, 279 kHz
1	155, 164, 173, 182, ...272, 281 kHz

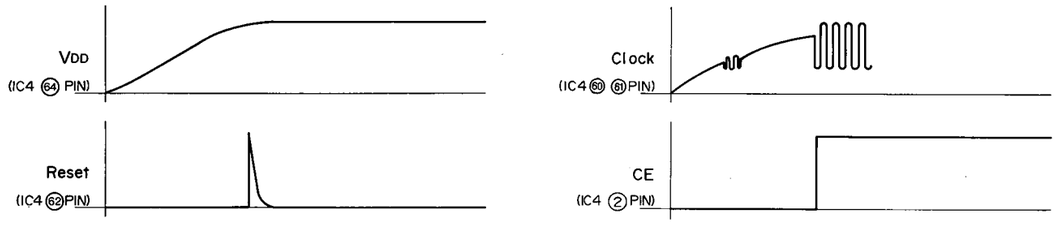
Station name/Time display switch

This switch allows to select if the display shows station names or the present time. Bofere switchng this switch, turn AC power off. Switching this switch with AC power on will not change the setup. When this switch is switched, all memory contents (preset channels timer, clock, etc.) are cleared.

Station Name On/Off SW	Station Name Display	Number of Preset Channels
0	ON	6 in each of A/B, total 12
1	OFF	10 in each of A and B, total 20

Operation of microprocessor IC4 at power ON

When voltage VDD at pin pin ⑭ (power supply) of IC4 is rises at power ON and the reset signal at pin ⑫ differentiated by CE signal (Chip Enable signal) at pin ② rises to half of VDD, the clock starts. When the reset signal lowers to half of the VDD, the microprocessor starts operating and the unit is set to normal operation mode.



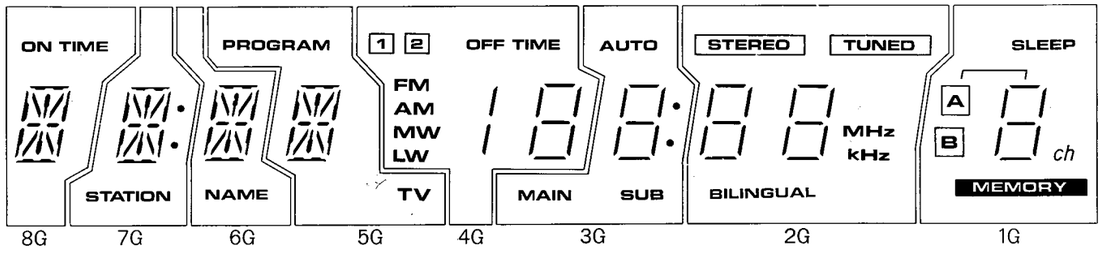
Terminal description

Terminal No.	Symbol	Name	I/O	Function
1	PY1	N.C.	O	Not used. On the PC board, make it capable of being pulled up using a resistor.
2	PY2	C.E.	I	Backup (AC OFF) detection terminal. H: AC ON When L level is detected, the backup condition is set and the clock is stopped. L: AC OFF Note: The rise from L to H shall be faster than the rise of reset.
3	PY3	N.C.	I	Not used. Pull down with the GND or a resistor.
4-11	PX0 ~ PD3	KEY RETURN 0 ~ 7	I	Key return input. H: AC ON All pulled down (10k to 100k). L: AC OFF
12 ~ 15	PC0 ~ PC3	KEY SCAN 0 ~ 3	O	Key scanning signals.
16 17	PF0 PF1	TV BOTH TV MAIN	O O	TV bilingual multiplexed audio mode control terminals. Port / Mode: PF0 / PF1 MAIN: L / H SUB: L / L BOTH: H / L
18	PF2	MONO	O	Mono/Auto stereo control terminal. H: MONO Permanently L during TV bilingual reception. L: AUTO STEREO
19	PF3	VHF H	O	Band selection control terminal. Selects the band by the combination with A0 and B0 of PLL IC. Port / Band: AO / BO / PF3 FM: H / L / L AM: L / H / L LW: H / H / L VHF L: H / H / L VHF H: H / H / H UHF: L / L / L
20	PE0	PLL DATA	O	PLL IC data output. Connected to CX7925B DIN terminal.
21	PE1	PLL CLOCK	O	PLL IC clock output. Connected to CX7925B CLK terminal.
22	PE2	PLL LATCH	O	PLL IC latch output. Connected to CX7925B LAT terminal.
23	PE3	KEY SCAN 4	O	Key scanning signal.
24	PB0	POWER	O	Relay control terminal. H: POWER ON L: POWER OFF
25	PB1	MUTING	O	Muting control during band switching, frequency scanning, etc. H: MUTE ON L: MUTE OFF
26	PB2	BIL	I	Bilingual signal input during multiplexed audio reception. H: BILINGUAL L: NORMAL
27	PB3	N.C.	O	Not used. Open or pulled down.
28	PA0	SD	I	Stop signal input for auto tuning. H: TUNE L: POWER OFF
29	PA1	TEST	I	Test mode setting input. H: NORMAL L: TEST
30	PA2	SDATA	O	System control DATA output.
31	PA3	SBUSY	I/O	System control BUSY input/output.
32	VSS			GND terminal.
33 ~ 48	S0 ~ S15		O	FL segment drive terminals. Pull-down resistors are incorporated with masked devices.
49 ~ 56	T7 ~ T0		O	FL grid drive terminals. Pull-down resistors are incorporated with masked devices.
57	VFDP			FL -ve power supply (–28.5V).
58	INT2		I	Not used. Connected to VDD.
59	INT1	DATAI	I	System control DATA input.
60 ~ 61	ETAL EXTAL			Clock oscillator terminals. X'tal 4.194304 MHz.
62	$\overline{RST}$	RESET	I	Reset signal input. H: NORMAL L: RESET
63	PY0		O	Not used. Open. (On the PC board, make it capable of being pulled up).
64	VDD			+B terminal (5V).

Test mode

1. Setting Test Mode
   To enter the test mode, reconnect AC power cord while the microprocessor's TEST port (pin 29) is connected to GND.
2. Contents of Test Mode
   (1) Display
   When AC power is turned ON in step 1, all FL segments go on except "STEREO", "TUNED" and "BILINGUAL".
   These three indicators are lit by the tuner circuitry, and has no relationship with the test mode operated at preset. To return the display to the normal display, press the POWER switch.

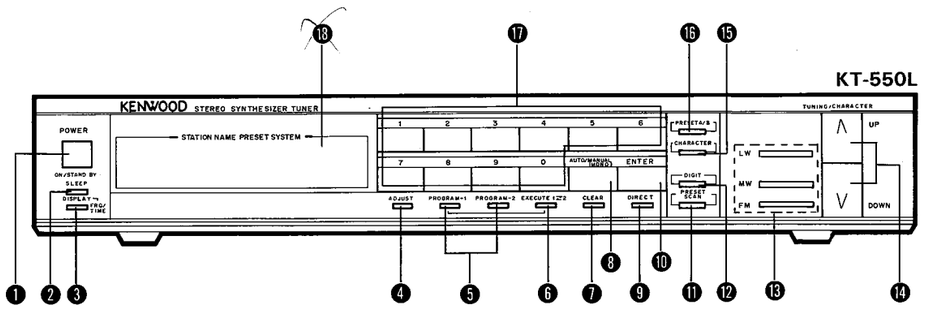
(2) Test Point Setting
At the same time as the display in (1), the frequencies listed on the attached sheet are stored automatically in the tuner's preset memory.
In the test mode, 20 stations are preset without station name display, regardless of the STATION NAME switch setup.



Memory clear method

1. Turn AC power on while depressing the CLEAR button. This clears all memory contents (preset stations, timer and clock) regardless of the backup condition setup.

CONTROLS

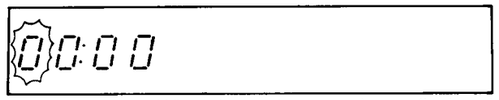


❶ **POWER switch**
❷ **SLEEP TIMER button**
❸ **DISPLAY FRQ/TIME button**
❹ **ADJUST button**
❺ **PROGRAM 1, 2 button**
❻ **EXECUTE 1 ⇄ 2 button**
❼ **CLEAR button**
❽ **TUNING MODE button**
❾ **DIRECT tuning button**
❿ **ENTER button**
⓫ **PRESET SCAN button**
⓬ **DIGIT button**
⓭ **Band selector buttons**
⓮ **TUNING button**
⓯ **CHARACTER button**
⓰ **PRESET A/B switch**
⓱ **PRESET buttons (1 – 0)**
⑱

OPERATING INSTRUCTIONS

Setting the current time

1. Confirm that the DIGITAL FREQUENCY COUNTER is in the time display mode.
   When the DIGITAL FREQUENCY COUNTER is in the frequency display mode, press the POWER switch.
2. Press the ADJUST button.
   The hour display of the left starts flashing.



When the station name is not displayed.

3. Input the current time using the PRESET buttons (1 to 0).
   The clock employs 24-hour system. Press the PRESET buttons as follows.

AM 9 : 05 Input in the order of 0–9–0–5
PM 4 : 50 Input in the order of 1–6–5–0

When 4 digits are input, the entire time display flashes. To change the input digit, press the CLEAR button and proceed the above steps again.

4. Press the ENTER button
   The time display illuminates.

When the ENTER button is pressed, the clock starts.
Press the ENTER button according to the time signal of the radio or telephone service.

Note:
When the time display flashes, this indicates the power failure occurred. At that time, reset the current time.

Listening to broadcasts

Auto tuning

1. Press the POWER switch.
2. Set the input mode of the amplifier to tuner.
3. Select the reception band with the band selector buttons.
4. Press the TUNING MODE button so that the AUTO indicator lights.
5. Press UP or DOWN side of the TUNING button.
   The unit starts scanning in the specified direction and stops at a station with a sufficient signal strength.
6. Adjust the volume control of the amplifier.

Manual tuning

1. Press the POWER switch.
2. Set the input mode of the amplifier to tuner.
3. Select the reception band with the band selector buttons.
4. Press the TUNING MODE button so that the AUTO indicator disappears. In the FM band, the MONO indicator lights.
5. Press UP or DOWN side of the TUNING button until the desired station is received.
   When the TUNING button is kept pressed, the displayed frequency changes rapidly.
6. Adjust the volume control of the amplifier.

Direct station tuning

1. Press the DISPLAY button to set the display window to the frequency mode.
   Select the desired band with the band select butotn (AM/FM).
3. While the frequency indicator is displayed, press the DIRECT button.
4. Input the number of the frequency with the PRESET buttons.
5. When the input frequency is within the range of the band, the station of the input frequency is received immediately after the final column is input.
   If the input frequency is out of the range of the band, the frequency indicator flashes for 5 senconds and error indication is displayed, then the display mode before pressing the DIRECT button resumes.
6. During inputting the frequency, when the incorrect PRESET buttons is pressed by mistake and is noticed, press the CLEAR button to return to the standby mode for the first column input.

Presetting stations

With the station name displayed, a total of 12 stations can be preset, and with the station name not displayed, a total of 20 stations can be preset for AM or FM broadcast. (Select the number of preset stations with the STATION NAME AND PRESET select switch located on the rear panel of the tuner.)

1. Press the DISPLAY button to set the display to the frequency display mode.
2. Press the AM or FM band select key.
3. Receive the desired station to be memorized with the TUNING button or DIRECT tuning function.
   At this time, input the station name if required, referring to "Station Name Indication" on page 9. (This operation is possible after memorizing the frequency.)
4. Press the ENTER button.
   "MEMORY" displays in the display window.
5. Select the A or B preset group with the PRESET A/B switch.
   When this is not done, the preset group which is currently indicated is selected.
6. Within 5 seconds, press any of 1 to 6 numeric keys (when the station name is displayed) or 1 to 0 keys (when the station name is not displayed).

   The MEMORY indicator in the display window goes off and the preset indiator will light.
   In the same way, preset the other stations. When presetting the station into the "10" preset indicator, press the "0" preset button.

STATION NAME AND PRESET switch located on the rear panel of the tuner

▭▮: When the station name is not displayed (10 stations for each A and B)
▮▭: When the station name is displayed (6 stations for each A and B)

Note:

1. When the station is memorized into the preset number in which another station has been preset, the previously-preset station will be cleared and the newly-preset station will be memorized.
   Be sure to press the preset button (1 to 0) after releasing the ENTER key.
   If the preset button (1 to 0) is pressed while the ENTER key is pressed, the same frequency may also be memorized into the other preset button.
2. In the station name display mode (when the STATION NAME AND PRESET switch on the rear panel is set to "12" position), the 7 to 0 preset buttons are invalid.
3. Operate the preset station number switch on the rear panel after plugging out the power cord from the AC outlet.
4. If you perform the above operation after you have once preset the tunning station, the preset contents will be erased.

Preset memory

For presetting broadcast stations, a total of 12 stations can be preset when the station name is displayed, or a total of 20 stations can be preset when the station name is not displayed for all bands randomly.
Up to 6 stations or 10 stations can be preset for each A and B and B group

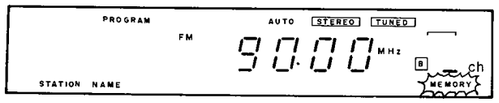
How to preset

1. Receive the desired station to be memorized with the UP/DOWN button or using the direct tuning functin.
2. Input the station name when the station name display is required. (This operation is possible after memorizing the frequency.)
3. Press the ENTER button. (This is valid only when the frequency is displayed.)
4. Select the A or B preset group with the PRESET A/B switch.
   When this is not done, the preset group which is currently indicated is selected.
5. Press any of the 1 to 6 (when the station name is displayed) or 1 to 0 (when the station name is not displayed) buttons.

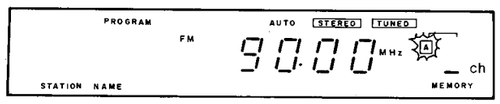
   Example: To memorized 90.0 MHz into A-3 channel (station name display mode)

1. Receive the desired station with the UP/DOWN button or DIRECT button.

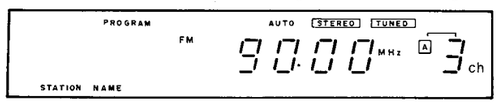
2. Press the ENTER button on. "MEMORY" lights.



3. Press the Preset A/B switch once to indicate "A".



4. Press "3" button on. "MEMORY" goes off, and "3" lights.

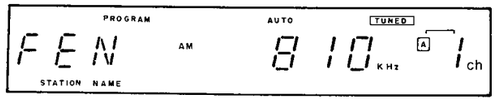


■ Recalling the Preset Memory

During the tuner functions, select "A" or "B" with the A/B select switch and press any of the PRESET buttons. The memorized contents corresponding to the PRESET number pressed will be displayed.
When the A/B switch is not pressed, the memorized contents corresponding to the PRESET button of the currently selected group will be recalled.
However, when the station name display mode is selected, four "7" to "0" Preset buttons do not function.

Example: During receiving the "FEN AM 810 kHz" in A-1 preset channel, to recall"CX FM 101 MHz" of A-5 preset

1. During preset A-1: AM 810 MHz reception



2. Press "3" button on.
   "FM 101 MHz" memorized in A-5 channel is received

Preset scan

During the tuner is functioning, when the PRESET SCAN button is pressed, each preset frequency will be received for 5 seconds sequentially.
If no station is preset in the preset channel, the next preset channel will be received after one second.
When any of theparesety channel is currently received, teh scanning starts from the next preset channel. If not, scanning will start from the A-1 preset channel.

A-1 → A-2 ----- A-9 → A-0 → B-1 → B-2 ---- B-9 → B-0 →

To release this function, press the PRESET SCAN button again.

Preset station tuning

1. Press the PRESET A/B switch to select A or B.
2. Press any of 1 to 0 PRESET buttons.
   The broadcast station which is preset into the PRESET button pressed will be received.

Note:

1. Since the plug-in backup system is provided with this tuner, the station frequencies preset in each PRESET button will not be cleared even when the POWER switch is set to the STAND BY position.
   However, when the AC power plug is disconnected frm the AC outlet, the preset frequencies will be cleared approx. 3 days later.
2. When the station name display mode is selected, the "7" to "0" PRESET buttons are invalid.

Last channel memory

When the POWER switch is turned On, or when the broadcast band (AM or FM) is changed to another, the last received channel of each band will be received. (Last channel memory function)

■ Station Name Indication (Station Name Preset)

Set the select switch located on the rear panel of the tuner to the STATION NAME PRESET 12 position.

Character input procedure

1. Tune to the desired station with the TUNING button or the DIRECT tuning method.
   When the desired station has been preset, call the station with the corresponding PRESET A/B switch and PRESET buttons.

2. Press the CHARACTER button to set the character input mode. The first column of the character display section begins flashing.
3. Turn the TUNING knob to select the character.
4. When the desired character is displayed, press the DIGIT button.
   Flashing will shift to the next column.
5. Repeat precedure 3 and 4 for four times to complete inputting. The character input mode will be released.

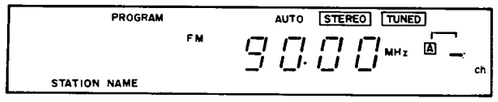
- When the incorrect character input by mistake and is noticed, press the CLEAR button to return to the standby mode for the first clumn input.
- Even in the middle of inputtig, pressing the CHARACTER key again will release the character input mode. At this time, the data which has been input is valid.
- When the preset channel to be named is being received, the character data will be automatically stored in the currently-displayed preset channel after inputting operation is completed.

Note:

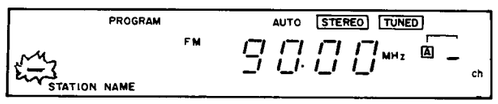
1. Disconnect the power plug of the tuner from the AC outlet before changing the setting of the select switch for the number of preset stations.
2. When the above operation is performed after the broadcast station has been preset, the preset contents will be cleared.

Example 1: To receive the 90.0 MHz FM broadcast and input the characters "C, B, E" when the station other than the preset channel memories is received. Shows the indicator flashing.

1. Tune to 90.0 MHz FM broadcast.

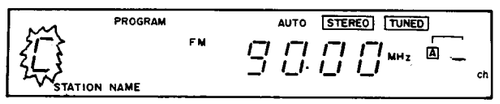


2. Press the CHARACTER button.

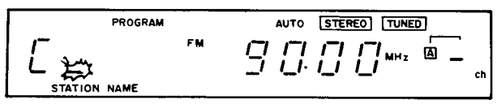


3. Press the TUNING UP button three time to select "C".

   _ → A → B → C

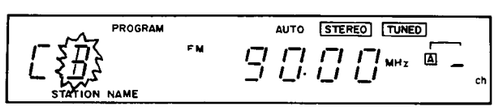


4. Press the DIGIT button.

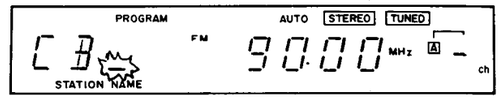


5. TUNING UP button twice times to select "B".

   _ → A → B

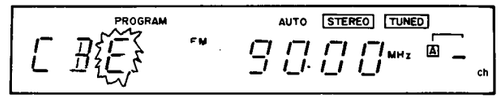


6. Press the DIGIT button.

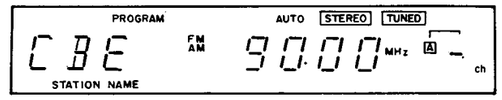


7. TUNING UP button five times to select "E".

   _ → B → C → D → E



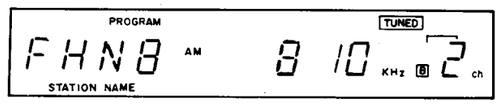
8. As the fourth column should be left blank, press the DIGIT button twice or press the CHARACTER button.



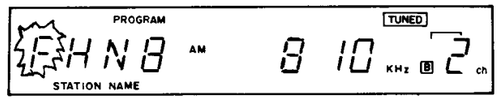
* After inputting is completed, memorize it into the desired preset channel according to the "Preset Station Tuning" section.

Example 2: To change the station name from "FHN8" for 810 kHz AM broadcast memorized in B-2 preset channel to "FEN".

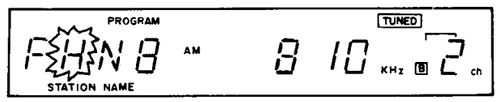
1. Recall the B-2 preset channel with the PRESET A/B switch and the PRESET button according to "Recalling the Preset Memory".



2. Press the CHARACTER button.

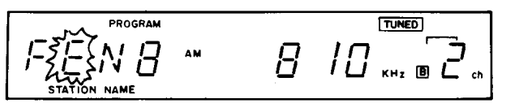


3. Press the DIGIT button to shift the flashing character to the next column since the first character "F" should be left as it is.

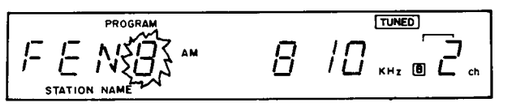


4. Press the TUNING (DOWN) buttno to select "E".

   H → G → F → E

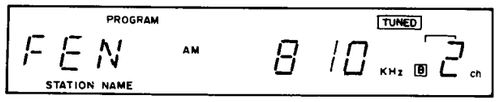


5. Press the DIGIT button twice.



6. Press the TUNING button to select a blank.

7. Press the DIGIT button or press the CHARACTER button.



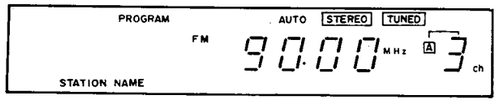
Operating timer

Setting the program timer

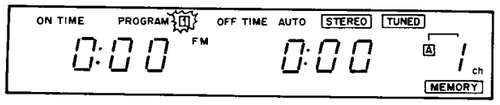
- Timer Setup Procedure (The same procedure can be used for both Program 1 and Program 2.)
  The timer can be set only when the POWER switch has been turned ON. When power is OFF, it is possible only to check the program contents.
  During setup, the station which has been received is not changed, and the AUTO, BAND, MAIN and SUB indications remain the same.

  Example 1. To set a Preset channel (B-2) in Timer 1 with On Time 8 : 45 and Off Time 9 : 35

1. Current Condition
   Reception of FM 90.0 MHz stored in A-3.

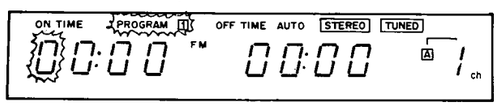


2. Displaying PROGRAM
   Press the Program 1 (PGM-1) key.



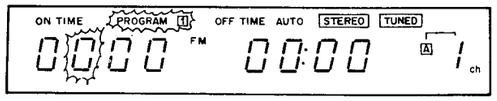
When the PGM-1 key is pressed, the "1" indicator flashes and the display shows the content of Program Timer 1. The above display continues for approx. 5 seconds. During this period, press the ENTER key during to enter the Timer Setup mode.
When the PGM-1 key is pressed during this display period, the previous returns to the previous status.

3. Starting Setup
   Press the ENTER key.



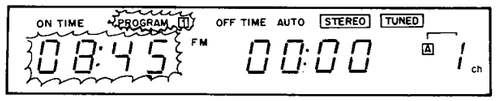
When the ENTER key is pressed, the "PROGRAM 1" indicator flashes to indicate that the Timer Setup mode. At the same time, the first digit of the ON TIME display starts to flash, indicating the entry standby for this digit.
If you find it unnecessary to change the current ON TIME, just press the ENTER key; you can then start the entry of the OFF TIME.

4. Entry of ON TIME
   Press numeric key "0".



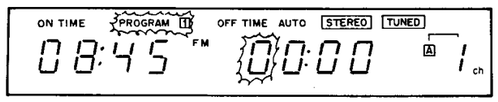
When "0" is pressed, the first digit of the ON TIME display goes "0" which is lit continuously, and the second digit starts flashing. When you made a mistake in entry, press the CLEAR key; the display returns to the stage of entry standby for the first digit.

5. Entry of ON TIME Using 10 Numeric Keys
   Enter "8", "4" then "5". Press these numeric keys within 15 seconds.



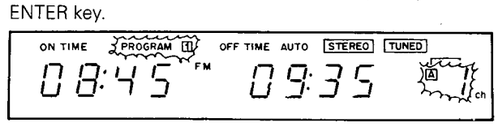
When four ON TIME digits have been entered, all the ON TIME digits flashes to indicate the end of ON TIME entry.
If the setup is correct, press the ENTER key.
If the desired ON TIME is obtained by entering until the third digit, press the ENTER key after the third digit. To modify the ON TIME entered, press the CLEAR key; the display returns to the stage or entry standby for the first digit.

6. Setting of ON TIME
   Press the ENTRY key.



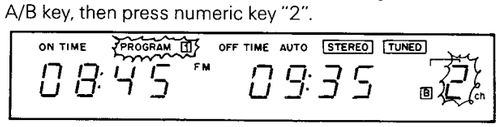
When the ON TIME entry is finished, the ON TIME display lights continuously and the first digit of the OFF TIME display starts to flash, indicating the entry standby for this digit. If you found entry mistake at this time, press the CLEAR key; the display returns to the stage of entry standby for the first digit.

7. Entry and Setting of ON TIME
   Press numeric keys "0", "9", "3" then "5", and press the ENTER key.



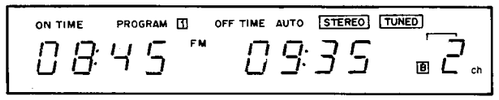
When the ENTER key is pressed, the OFF TIME display lights continuoulsy, indicating the end of OFF TIME entry. In its place, the preset channel display starts flashing to indicate the standby for preset channel entry. If you found entry mistake at this time, press the CLEAR key; the first press returns the display to the stage of entry standby for the OFF TIME first digit, and the second press returns it to the stage of entry standby for the ON TIME first digit again.

8. Entry of Preset Channel
   Select the preset channel group by pressing the PRESET A/B key, then press numeric key "2".



When the PRESET A/B key is pressed, the other indicator that the currently-flashing indicator lights (A→B, or B→A). When the numeric key is pressed, the figure of the preset channel changes to that pressed. If you found entry mistake at this time, press the CLEAR key; the display returns to the status before the PRESET A/B key was pressed.

9. End of Timer Setup
   Press the ENTER key.

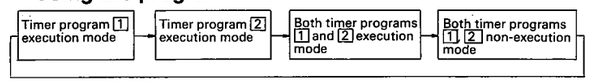


When the preset channel number has been entered, press the ENTER key.
The preset channel and PROGRAM indicators light continuously, indicating the end of timer setup. The above display continues for approx. 5 seconds, and the display returns to the initial status.

Notes:

- If the PGM-1 key is pressed during timer setup operation, the timer setup mode is canceled and the display returns to the initial status.
- When the station name display is applied, it is possible to select preset channels 1 to 6 for both A and B.

Using the program timer



1. Press the POWER switch so that the unit is in the standby mode.
2. Press the EXECUTE 1 ⇄ 2 button to select the program timer to be used.
   To use program timer 1 or 2, press the EXECUTE 1 ⇄ 2 button so that the PROGRAM 1 or 2 indicator light.
3. When the preset on time is reached, the program timer turns on and the selected preset station is received.
4. When the preset off time is reached, the program timer turns off.

To function timer program 1, 2

Press the EXECUTE 1 ⇄ 2 button display the timer program 1 or 2 indicator.

Note:

With both Timer 1 and 2 programmed, when the Timer 1 is executed, the Timer 2 will not function. Also when the Timer 2 is executed, the Timer 1 will not function.

To cancel the program timer

Press the EXECUTE 1 ⇄ 2 button so that the PROGRAM 1 and/or 2 indicator goes off.

To check the contents of timer program

1. Press the PGM-1 or PGM-2 key in which the program to be checked is input. The contents of the selected program is displayed for 5 seconds.
2. Then the display before the key is pressed resumes.
   Even in the STAND BY mode (when only the time is displayed), pressing PGM-1 or PGM-2 key will display the program contents for 5 seconds, then the time display will resume.
   Setting the timer is possible only when the POWER switch is turned ON. When the POWER is OFF, only the program contents can be checked.

Notes on using program timer

- The program timer can be used only when the unit is in the standby mode.
- The unit should be set to standby mode before the preset program timer on time.
- If the EXECUTE 1 ⇄ 2 button or POWER switch is operated between preset timer on time or off time, the program timer may not function correctly.
- Two settings of the program timer 1 and 2 should be at different times.

Notes:

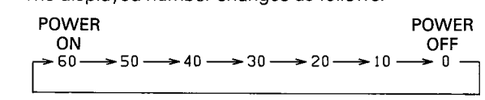
1. The timer program functions only when the Timer 1 or 2 indicator lights.
2. When the PROGRAM key is pressed or the POWER switch is pressed ON/OFF during the timer is activated, the program timer will not function correctly.
3. Be sure not to overlap the times when setting the programs 1 and 2. (Refer to the exapmle in the figure on the right.)
- When both 1 and 2 programs are input, the program 2 has a priority.
- When the ON-time for the program 1 reaches during the program 2 is activated, the program 1 does not function.
- When the ON-time for the program 2 reaches during the program 1 is activated, the program 2 begins functioning.

4. When functioning both programs 1 and 2 sequentially, be sure to leave 1 minute between the OFF-time of the first program and the ON-time of the second program.
   Example: When receiving 90.00 MHz FM broadcast for one hour from 8 o'clock and 954 kHz AM broadcast for one hour from 9 o'clock, set the ON-time for the program 1 to 8 : 00 and the OFF-time to 8 : 59, and set the ON-time for the program 2 to 9 : 00 and the OFF-time to 9 : 59.
5. When the timer function is activated. The same operation will be performed on the same times every day. When the timer operation is not required, release the timer function according to "To Deactivate the Timer Function".
6. On listening to the tuner with the timer function activated (when the Timer 1 or 2 indicator lights), when the set time comes, the timer operation will function.
   At this time, the receiving station will be changed to the station which has been programmed for the timer. When recording the broadcast from the tuner, be sure to confirm the programmed contents of the timer.
7. The programmed contents of the timer cannot be cancelled. When the timer is not used, be sure to release the timer function according to "To Deactivate the Timer Function".

Using the sleep timer

The sleep timer can be use to turn the power off after up to 60 minutes. The power off time can be set with an interval of 10 minutes.

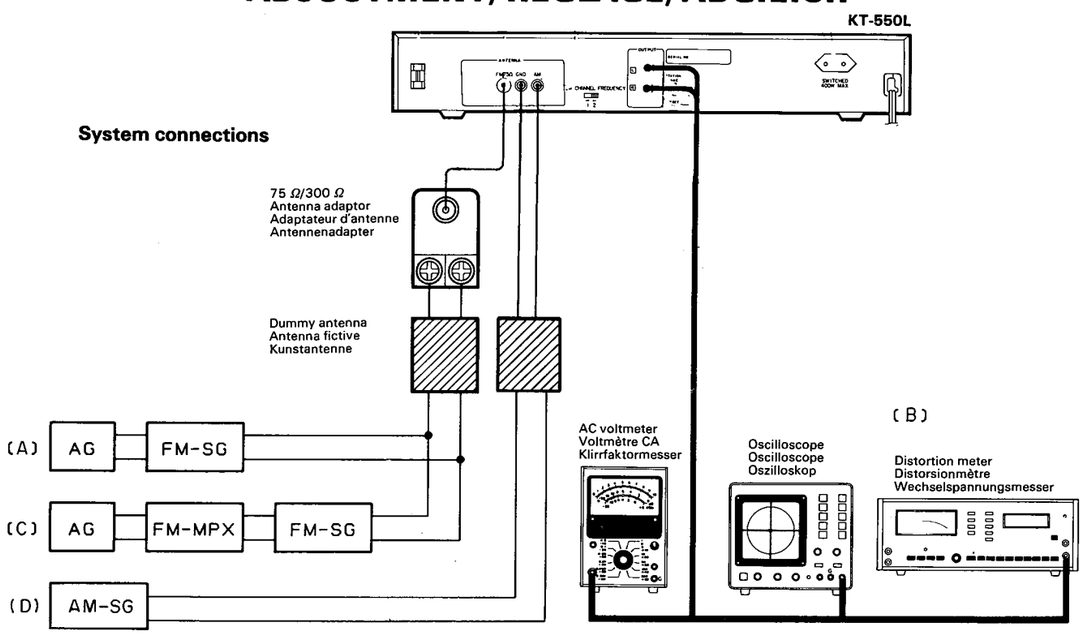
1. Press the SLEEP button.
   The SLEEP indicator lights and 60 is displayed.
2. To turn the power off within 60 minutes, press the SLEEP button.
   The displayed number changes as follows.



Notes:

- The sleep timer has priority over the program timer.
- When the remaining time or the SLEEP TIMER is displayed, pressing any of the PRESET buttons, TUNING button, BAND select button, etc. will display the frequency, then 5 secnds later, the remaining time display resumes.
- When the remaining time is within 10 minutes, pressing the SLEEP button will turn the power OFF.
- To release the SLEEP TIMER, press the POWER switch to turn the power OFF.
- When the time is not set, the SLEEP TIMER is not displayed.

ADJUSTMENT/REGLAGE/ABGIEICH



ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION	Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: FM MODE/AUTO						
1	BAND EDGE (1)	–	Connect a DC voltmeter between TP20(VT) and TP26(GND).	87.5MHz	L7 (Front end)	2.5V	(a)
2	BAND EDGE (2)	–	Connect a DC voltmeter between TP20(VT) and TP26(GND).	108.0MHz	TC1 (Front end)	8.0V	(a)
	Repeat alignments 1 and 2 several times.						
3	RF ALIGNMENT	(A) 98.0MHz 1kHz,±75kHz dev	(B)	MONO 98.0MHz	L2,3,5 (Front end)	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR	(A) 98.0MHz 1kHz,±75kHz dev 60dBμ(ANT input)	Connect a DC voltmeter between TP18 and TP19.	MONO 98.0MHz	L13	0V	(b)
5	VCO	(A) 98.0MHz 0 dev 60dBμ(ANT input)	Connect a 330kΩ resistor to TP14. Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	VR2	19.00kHz	(c)
6	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dev Selector:L or R 60dBμ(ANT input)	(B)	98.0MHz	T1 (Front end)	Minimum distortion. (L or R)	
7	SEPARATION	(C) 98.0MHz 1kHz,±68.25kHz dev Selector:L or R 60dBμ(ANT input)	(B)	98.0MHz	VR3	Minimum crosstalk.	
8	TUNING LEVEL	(A) 98.0MHz 0 dev 18dBμ(ANT input)	–	98.0MHz	VR1	Adjust VR1 so that FL1(TUNED) goes off. Then, adjust VR1 and stop at the point where FL1(TUNED) goes on.	
AM-MW SECTION	Keep the AM loop antenna installed. SELECTOR: MW						
(1)	BAND EDGE (1)	–	Connect a DC voltmeter between TP20(VT) and TP26(GND).	530kHz (531kHz)	L5	1.5V	(a)
(2)	BAND EDGE (2)	–	Connect a DC voltmeter between TP20(VT) and TP26(GND).	1610kHz (1602kHz)	TC4	8.0V	(a)
	Repeat alignments (1) and (2) several times.						
(3)	RF ALIGNMENT (1)	(D) 630kHz 400Hz,30% mod	(B)	630kHz	L3	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1440kHz 400Hz,30% mod	(B)	1440kHz	TC2	Maximum amplitude and symmetry of the oscilloscope display.	
	Repeat alignments (3) and (4) several times.						
AM-LW SECTION	Keep the AM loop antenna installed. SELECTOR: LW						
(5)	BAND EDGE (1)	–	Connect a DC voltmeter between TP20(VT) and TP26(GND).	153kHz	L4	1.5V	(a)
(6)	BAND EDGE (2)	–	Connect a DC voltmeter between TP20(VT) and TP26(GND).	281kHz	TC3	8.0V	(a)
	Repeat alignments (5) and (6) several times.						

(7)	RF ALIGNMENT (1)	(D) 162kHz 400Hz,30% mod	(B)	162kHz	L2	Maximum amplitude and symmetry of the oscilloscope display.	
(8)	RF ALIGNMENT (2)	(D) 270kHz 400Hz,30% mod	(B)	270kHz	TC1	Maximum amplitude and symmetry of the oscilloscope display.	
	Repeat alignments (7) and (8) several times.						
(9)	TUNING LEVEL	(A) 1000(999)kHz 0 dev 25dBμ(ANT input)	–	1000(999)kHz	VR4	Adjust VR4 so that FL1(TUNED) goes off. Then, adjust VR4 and stop at the point where FL1(TUNED) goes on.	

REGLAGE

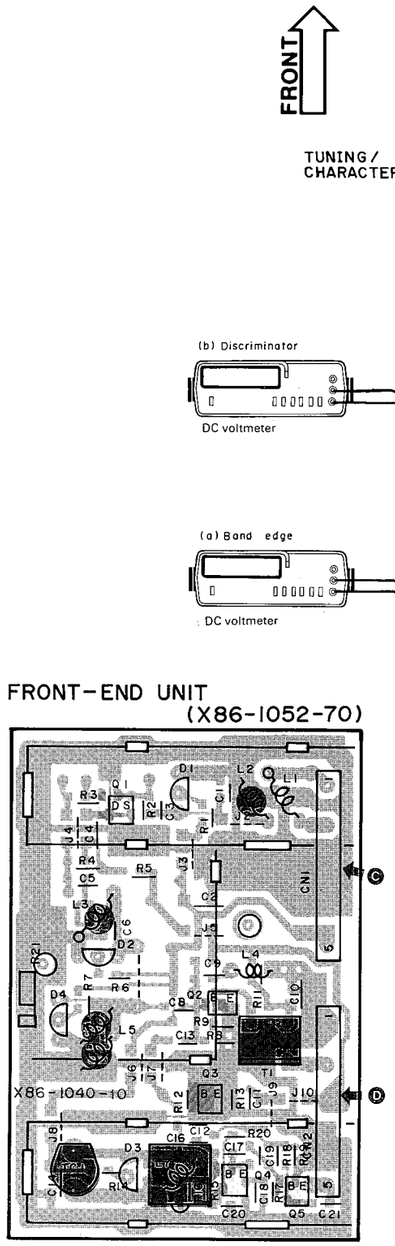
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF	Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEUR: FM MODE: FM MODE/AUTO						
1	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP20(VT) et TP26(GND).	87.5MHz	L7 (Contrôle)	2.5V	(a)
2	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP20(VT) et TP26(GND).	108.0MHz	TC1 (Contrôle)	8.0V	(a)
	Répéter les points 1 et 2 plusieurs fois.						
3	ALIGNEMENT HT	(A) 98.0MHz 1kHz,±75kHz dév	(B)	MONO 98.0MHz	L2,3,5 (Contrôle)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR	(A) 98.0MHz 1kHz,±75kHz dév 60dBμ(Entrée ANT)	Relier un voltmètre CC entre les TP18 et TP19.	MONO 98.0MHz	L13	0V	(b)
5	VCO	(A) 98.0MHz 0 dév 60dBμ(Entrée ANT)	Relier une résistance de 330kΩ à TP14. Raccorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98.0MHz	VR2	19.00kHz	(c)
6	DISTORSION (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dév Selection:L ou R 60dBμ(Entrée ANT)	(B)	98.0MHz	T1 (Contrôle)	Distorsion minimale. (L ou R)	
7	SEPARATION	(C) 98.0MHz 1kHz,±68.25kHz dév Selection:L ou R 60dBμ(Entrée ANT)	(B)	98.0MHz	VR3	Diaphonie minimale.	
8	NIVEAU D'ACCORDER	(A) 98.0MHz 0 dév 18dBμ(Entrée ANT)	–	98.0MHz	VR1	Ajuster VR1 que FL1(TUNED) est non allumé. Alors, ajuster VR1 et arrêter le mouvement de VR1 au moment où le FL1(TUNED)s'allume.	
SECTION MA	Laisser l'antenne bouche MA installée. SELECTEUR: MW						
(1)	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP20(VT) et TP26(GND).	530kHz (531kHz)	L5	1.5V	(a)
(2)	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP20(VT) et TP26(GND).	1610kHz (1602kHz)	TC4	8.0V	(a)
	Répéter les points (1) et (2) plusieurs fois.						
(3)	ALIGNEMENT HT (1)	(D) 630kHz 400Hz,30% mod	(B)	630kHz	L3	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT HT (2)	(D) 1440kHz 400Hz,30% mod	(B)	1440kHz	TC2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
	Répéter les points (3) et (4) plusieurs fois.						
SECTION GO	Laisser l'antenne bouche MA installée. SELECTEUR: LW						
(5)	BORD DE BANDE (1)	–	Relier un voltmètre CC entre les TP20(VT) et TP26(GND).	153kHz	L4	1.5V	(a)
(6)	BORD DE BANDE (2)	–	Relier un voltmètre CC entre les TP20(VT) et TP26(GND).	281kHz	TC3	8.0V	(a)
	Répéter les points (5) et (6) plusieurs fois.						
(7)	ALIGNEMENT HT (1)	(D) 162kHz 400Hz,30% mod	(B)	162kHz	L2	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(8)	ALIGNEMENT HT (2)	(D) 270kHz 400Hz,30% mod	(B)	270kHz	TC1	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
	Répéter les point (7) et (8) plusieurs fois.						
(9)	NIVEAU D'ACCORDER	(A) 1000(999)kHz 0 dév 25dBμ(Entrée ANT)	–	1000(999)kHz	VR4	Ajuster VR4 que FL1(TUNED) est non allumé. Alors, ajuster VR4 et arrêter le mouvement de VR4 au moment où le FL1(TUNED)s'allume.	

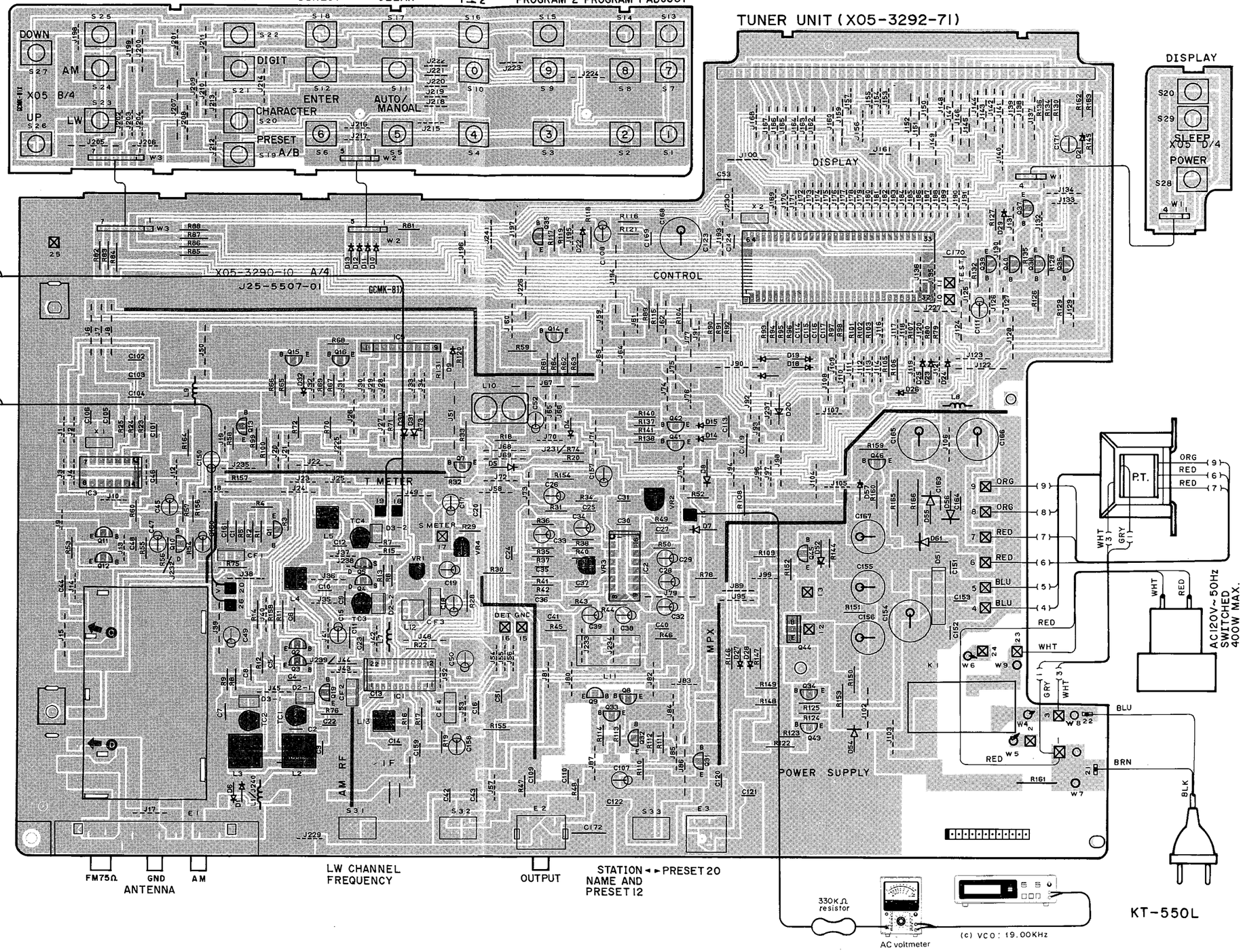
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG		Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM MODE:FM MODE/AUTO					
1	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP20(VT) und TP26(GND) anschließen.	87,5MHz	L7 (Eingangs-stufe)	2,5V	(a)
2	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP20(VT) und TP26(GND) anschließen.	108,0MHz	TC1 (Eingangs-stufe)	8,0V	(a)
		Abstimmungen 1 und 2 mehrere Male wiederholen.					
3	EMPFANGS-BEREICH-ABSTIMMUNGEN	(A) 98,0MHz 1kHz.±75kHz Hub	(B)	MONO 98,0MHz	L2.3.5 (Eingangs-stufe)	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
4	DISKRIMINATOR	(A) 98,0MHz 1kHz.±75kHz Hub 60dBμ(ANT Eingang)	Einen Gleichspannungs-messer zwischen TP18 und TP19 anschließen.	MONO 98,0MHz	L13	0V	(b)
5	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dBμ(ANT Eingang)	Einen 330kΩ Wider-standen zu TP14 anschließen. Einen Frequenzzähler über einen Wechselspannungs messer an den Wider-stand anschließen.	98,0MHz	VR2	19,00kHz	(c)
6	KLIRRFACTOR (STEREO)	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler: L oder R 60dBμ(ANT-Eingang)	(B)	98,0MHz	T1 (Eingangs-stufe)	Minimal Klirrfactor. (L oder R)	
7	STEREO KANAL TRENNUNG	(C) 98,0MHz 1kHz.±68,25kHz Hub Wähler: L oder R 60dBμ(ANT-Eingang)	(B)	98,0MHz	VR3	Minimal Übersprechen.	
8	ABSTIMM PEGEL	(A) 98,0MHz 0 Hub 18dBμ(ANT-Eingang)	–	98,0MHz	VR1	Den Pegel widerstand VR1 so einstellen, daß der FL1(TUNED)anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen. und dem VR1 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	
MW-EMPFANGSABTEILUNG		Die MW-Rahmenantenne angebracht lassen. SELECTOR: MW					
(1)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP20(VT) und TP26(GND) anschließen.	530kHz (531kHz)	L5	1,5V	(a)
(2)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP20(VT) und TP26(GND) anschließen.	1610kHz (1602kHz)	TC4	8,0V	(a)
		Abstimmungen (1) und (2) mehrere Male wiederholen.					
(3)	HF-ABGLEICH (1)	(D) 630kHz 400Hz.30% mod	(B)	630kHz	L3	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1440kHz 400Hz.30% mod	(B)	1440kHz	TC2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
		Abstimmungen (3) und (4) mehrere Male wiederholen.					
LW-EMPFANGSABTEILUNG		Die MW-Rahmenantenne angebracht lassen. SELECTOR: LW					
(5)	BANDKANTE (1)	–	Einen Gleichspannungs-messer zwischen TP20(VT) und TP26(GND) anschließen.	153kHz	L4	1,5V	(a)
(6)	BANDKANTE (2)	–	Einen Gleichspannungs-messer zwischen TP20(VT) und TP26(GND) anschließen.	281kHz	TC3	8,0V	(a)
		Abstimmungen (5) und (6) mehrere Male wiederholen.					
(7)	HF-ABGLEICH (1)	(D) 162kHz 400Hz.30% mod	(B)	162kHz	L2	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
(8)	HF-ABGLEICH (2)	(D) 270kHz 400Hz.30% mod	(B)	270kHz	TC1	Maximal Amplitude und Symmetrie des Oszilloskopbildes.	
		Abstimmungen (7) und (8) mehrere Male wiederholen.					
(9)	ABSTIMM PEGEL	(A) 1000(999)kHz 0 Hub 25dBμ(ANT-Eingang)	–	1000(999)kHz	VR4	Den Pegel widerstand VR4 so einstellen, daß der FL1(TUNED)anzeiger nicht leuchtet. Dann der Pegel widerstand aufdrehen, und dem VR4 Halt geben wobei den FL1(TUNED) anzeiger leuchtet wird.	

PC BOARD

COMPONENT SIDE VIEW

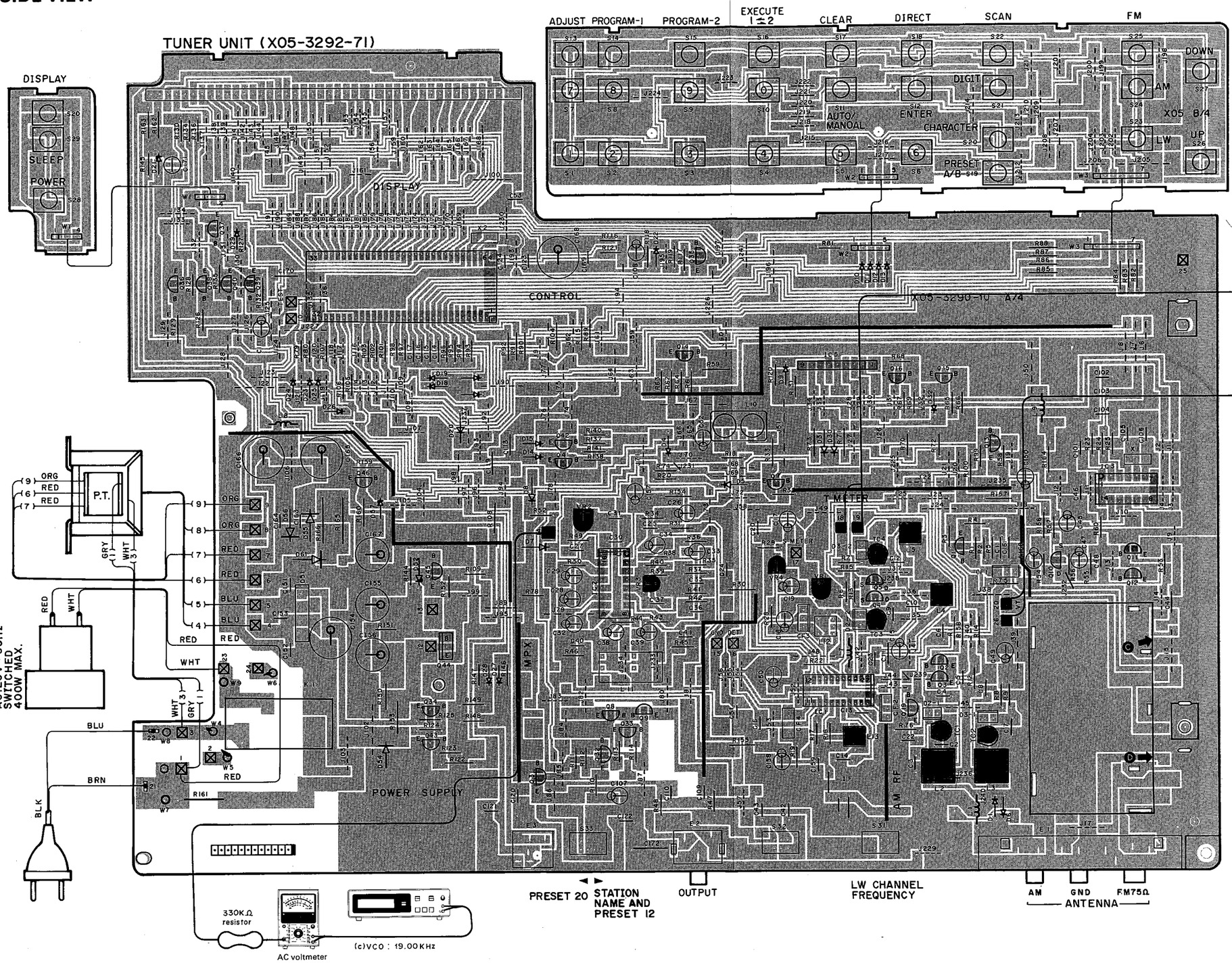




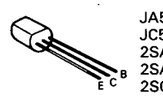
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD

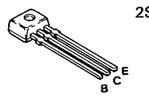
FOIL SIDE VIEW



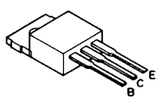
Refer to the schematic diagram for the values of resistors and capacitors.



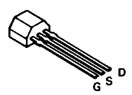
JA501
JC501
2SA733 (A)
2SA999
2SC1845
2SC1923
2SC945 (A)
2SD1302



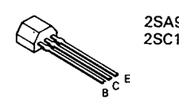
2SC3391



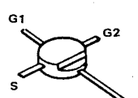
2SD1266



2SK241

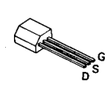


2SA933S
2SC1740S

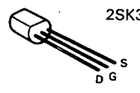


3SK85

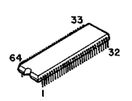
2SC2714



2SK439



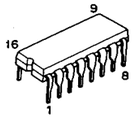
2SK364



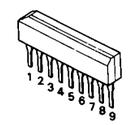
CXP5016-196S

2SK302

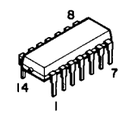
3SK131



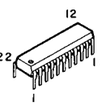
AN7470



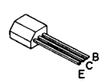
LA7910



CX7925B



LA1265



2SC2839

(X05-3292-71) (E,T TYPE)(A/4)
(X05-3292-72) (EF TYPE)(A/4)

(X86-1052-70)

Q1,3 : 2SK302 (Y, GR)
Q2 : 3SK131 (M, L)
Q4,5 : 2SC2714 (R,O)
D1~4 : KV1310-4

	Q41		
	E	C	B
12ch PRESET	2.7V	0V	6V
20ch PRESET	0.6V	0V	1.2V

	Q42		
	E	C	B
1 9N	2.7V	0V	6V
2 9N+2	0.6V	0V	1.2V

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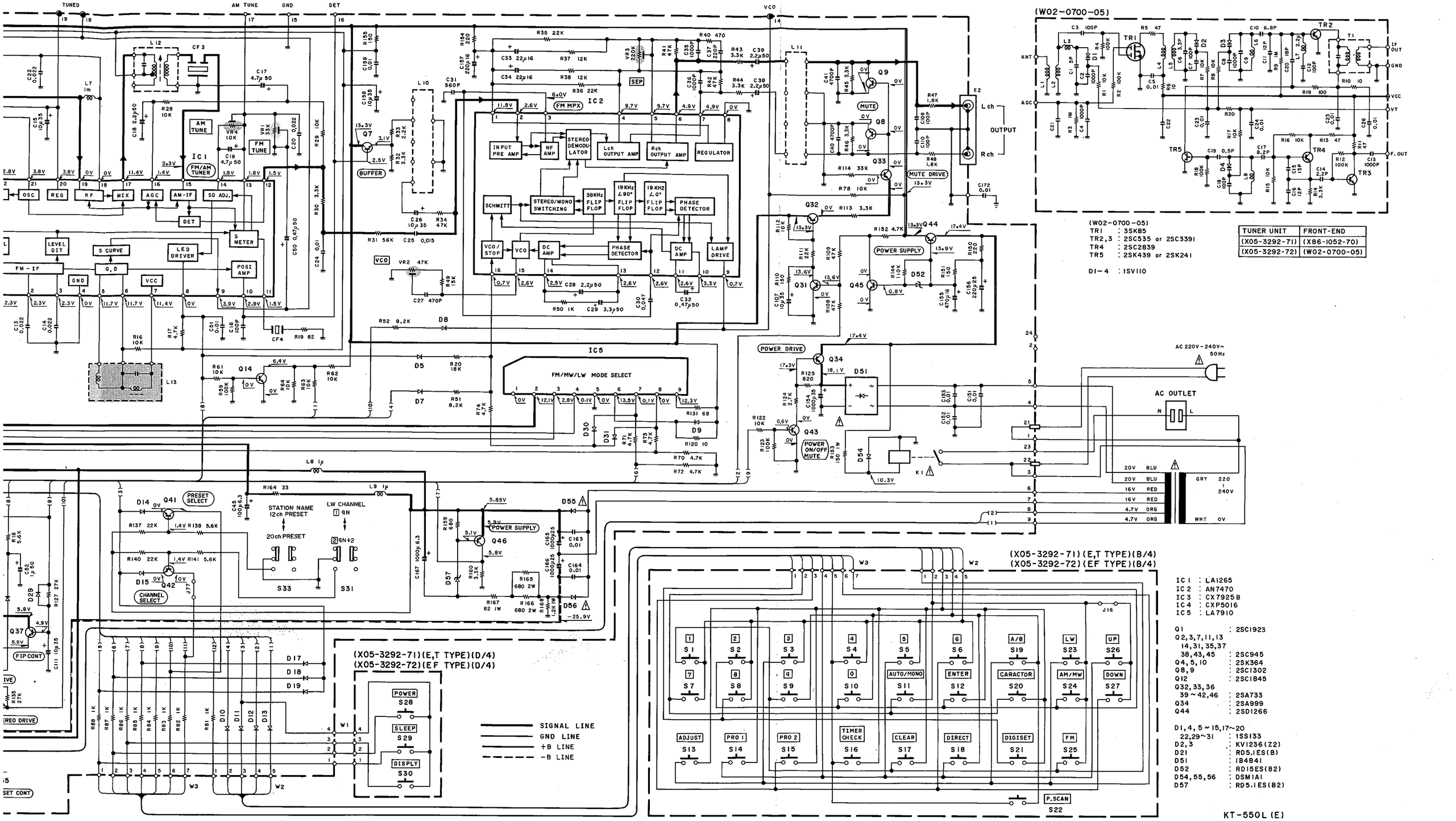


TUNER UNIT	FRONT-END
(X05-3292-71)	(X86-1052-70)
(X05-3292-72)	(W02-0700-05)

(W02-0700-05)
TR1 : 3SK85
TR2,3 : 2SC535 or 2SC3391
TR4 : 2SC2839
TR5 : 2SK439 or 2SK241

D1~4 : 1SV110

IC1 : LA1265
IC2 : AN7470
IC3 : CX7925B
IC4 : CXP5016
IC5 : LA7910

Q1	: 2SC1923
Q2,3,7,11,13 14,31,35,37 38,43,45	: 2SC945
Q4,5,10	: 2SK364
Q8,9	: 2SC1302
Q12	: 2SC1845
Q32,33,36 39~42,46	: 2SA733
Q34	: 2SA999
Q44	: 2SD1266

D1,4,5~15,17~20 22,29~31	: 1SS133
D2,3	: KV1236(Z2)
D21	: RD5.1ES(B)
D51	: 1B4B41
D52	: RD15ES(B2)
D54,55,56	: DSM1A1
D57	: RD5.1ES(B2)

KT-550L (E)

Q42		
	C	B
V	0V	6V
V	0V	1.2V

CAUTION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before tha appliance is returned to the customer.

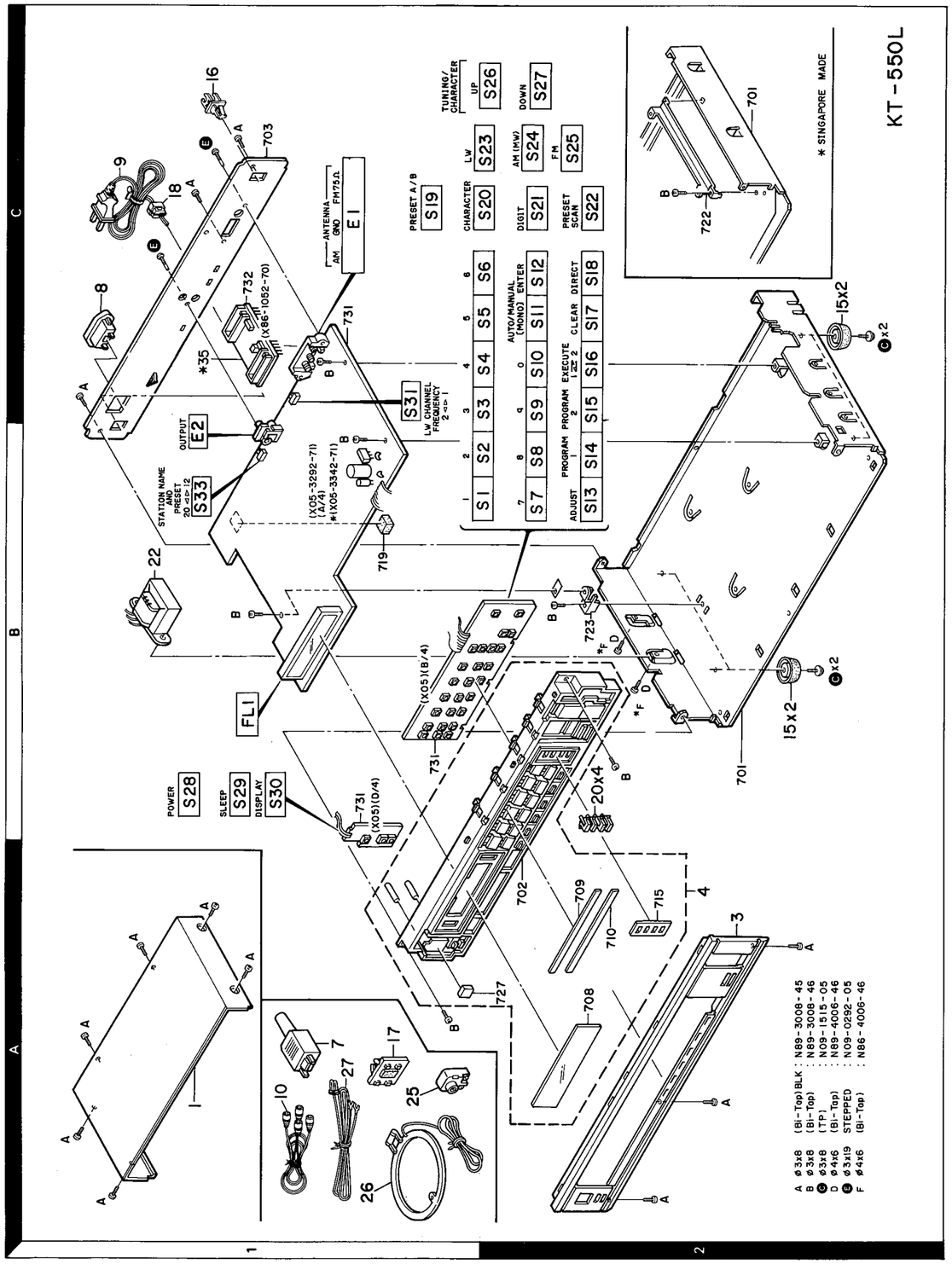
DC voltages are as measured with a high impedance voltmeter during reception of the FM broadcast signal (with a signal strength of 60 dB at the ANT terminal). Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance pendant la réception d'un signal de programme FM (avec une force de signal de 60 dB à la borne ANT). Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser bei Empfang eines UKW-Signals (mit einer Feldstärke von 60 dB am Antennenanschluß) gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

KT-550L
KENWOOD

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle 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	Destination 仕向	Remarks 備考
			KT-550L			
1	1A		A01-1469-01	METALLIC CABINET	T E	
1	1A		A01-1484-02	METALLIC CABINET	E2	
3	2A	*	A20-5152-02	PANEL		
4	2A	*	A22-0665-03	SUB PANEL ASSY		
--			B46-0122-13	WARRANTY CARD	E	
-			B46-0139-03	WARRANTY CARD	E2	
-			B46-0143-03	WARRANTY CARD	T	
-		*	B50-6606-00	INSTRUCTION MANUAL(ENGLISH)	T E	
-		*	B50-6607-00	INSTRUCTION MANUAL(FRENCH)	E	
-		*	B50-6611-00	INSTRUCTION MANUAL(FRENCH)	E	
-		*	B50-6910-00	INSTRUCTION MANUAL(ENGLISH)	E2	
-		*	B50-6911-00	INSTRUCTION MANUAL(G,D,I)	E2	
-		*	B50-6912-00	INSTRUCTION MANUAL(G,D,I)	E2	
-			B58-0803-03	CAUTION CARD	E E2	
⚠ 7	1A		E03-0049-05	AC PLUG	T	
⚠ 8	1C		E03-0055-05	AC OUTLET	E E2	
⚠ 8	1C		E03-0085-05	AC OUTLET	T	
⚠ 9	1C		E30-0459-05	AC POWER CORD	E E2	
⚠ 9	1C		E30-1416-05	AC POWER CORD	T	
10	1A		E30-0505-05	AUDIO CORD		
-		*	H01-7437-04	ITEM CARTON CASE	T E	
-		*	H01-7438-04	ITEM CARTON CASE	E2	
-		*	H10-3446-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350XO.03)		
-			H25-0232-04	PROTECTION BAG (235X350XO.03)		
15	2B,2C		J02-0170-04	FOOT		
16	1C		J19-0626-12	ANTENNA HOLDER		
17	1A		J19-0875-03	ANTENNA HOLDER		
⚠ 18	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
20	2B	*	K27-1721-04	KNOB (BUTTON) PRESET,DIGIT		
⚠ 22	1B	*	L01-7602-05	POWER TRANSFORMER		
C	2B,2C		N09-1515-05	TAPPING SCREW (Ø3X8)		
E	1C		N09-0292-05	STEPPED SCREW (Ø3X19)		
25	1A		T90-0136-05	ANTENNA ADAPTOR		
26	1A		T90-0138-15	LOOP ANTENNA		
27	1A		T90-0132-05	T TYPE ANTENNA		
			KT-550L (Singapore made)			
1	1A		A01-1484-02	METALLIC CABINET		
3	2A		A20-5152-02	PANEL		
4	2A		A22-0665-03	SUB PANEL ASSY		
--			B46-0122-13	WARRANTY CARD	E	
-			B46-0143-03	WARRANTY CARD	T	
--		*	B50-6746-00	INSTRUCTION MANUAL(ENGLISH)		
-		*	B50-6747-00	INSTRUCTION MANUAL(FRENCH)	E	
-		*	B50-6750-00	INSTRUCTION MANUAL(G,D,I)	E	
-			B58-0803-03	CAUTION CARD	E	
⚠ 7	1A		E03-0049-05	AC PLUG	T	
⚠ 8	1C		E03-0055-05	AC OUTLET	E	

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

E2: France made

⚠ indicates safety critical components.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle 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	Destination 仕向	Remarks 備考
⚠	8	1C		E03-0085-05	AC OUTLET	T	
⚠	9	1C		E30-0459-05	AC POWER CORD	E	
⚠	9	1C		E30-1416-05	AC POWER CORD	T	
	10	1A		E30-0505-05	AUDIO CORD		
	-		*	H01-7531-04	ITEM CARTON CASE		
	-		*	H10-3302-12	POLYSTYRENE FOAMED FIXTURE		
	-			H25-0223-04	PROTECTION BAG (750X350X0.03)		
	-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
	15	2B,2C		J02-0161-04	FOOT		
	16	1C		J19-0564-05	ANTENNA HOLDER		
	17	1A		J19-0875-03	ANTENNA HOLDER		
⚠	18	1C		J42-0083-05	POWER CORD BUSHING		
	-			J61-0307-05	WIRE BAND		
	20	2B		K27-1721-04	KNOB (BUTTON) PRESET,DIGIT		
⚠	22	1C	*	L01-~~7822~~-05 7602	POWER TRANSFORMER		
	C	2B,2C		N09-1515-05	TAPPING SCREW (Ø3X8)		
	E	1C		N09-0292-05	STEPPED SCREW (Ø3X19)		
	25	1A		T90-0136-05	ANTENNA ADAPTOR		
	26	1A		T90-0138-15	LOOP ANTENNA		
	27	1A		T90-0121-05	T TYPE ANTENNA		
	TUNER UNIT (X05-3292-71)						
	C1			C91-0769-05	CERAMIC 0.01UF M		
	C2			CC45FTH1H101J	CERAMIC 100PF J	T E	
	C2			CC45TH1H101J	CERAMIC 100PF J	E2	
	C3 -8			CK45FF1H223Z	CERAMIC 0.022UF Z	T E	
	C3 -8			CK45F1H223Z	CERAMIC 0.022UF Z	E2	
	C9			CC45CH1H151J	CERAMIC 150PF J	E2	
	C9			CC45FCH1H151J	CERAMIC 150PF J	T E	
	C10			CQ09FS1H221JY0	POLYSTY 220PF J		
	C11			C91-0769-05	CERAMIC 0.01UF M		
	C12			CQ09FS1H391JY0	POLYSTY 390PF J		
	C13 ,14			CK45FF1H223Z	CERAMIC 0.022UF Z	T E	
	C13 ,14			CK45F1H223Z	CERAMIC 0.022UF Z	E2	
	C15			CE04KW1V100M	ELECTRO 10UF 35WV		
	C16			CC45FSL1H101J	CERAMIC 100PF J	T E	
	C16			CC45SL1H101J	CERAMIC 100PF J	E2	
	C17			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
	C18			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
	C19			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
	C20			CK45FF1H223Z	CERAMIC 0.022UF Z	T E	
	C20			CK45F1H223Z	CERAMIC 0.022UF Z	E2	
	C21			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
	C22			CK45FF1H223Z	CERAMIC 0.022UF Z	T E	
	C22			CK45F1H223Z	CERAMIC 0.022UF Z	E2	
	C23 ,24			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
	C23 ,24			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
	C25			CF92FV1H153J	MF 0.015UF J		
	C26			CE04KW1V100M	ELECTRO 10UF 35WV		
	C27			CQ09FS1H471J	POLYSTY 470PF J		
	C28			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
	C29			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
	C30			CF92FV1H473J	MF 0.047UF J		

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C31			CK45B1H561K	CERAMIC 560PF K	E2	
C31			CK45FB1H561K	CERAMIC 560PF K	T E	
C32			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C33 ,34			CE04KW1C220M	ELECTRO 22UF 16WV		
C35 ,36			CK45B1H102K	CERAMIC 1000PF K	E2	
C35 ,36			CK45FB1H102K	CERAMIC 1000PF K	T E	
C37			CC45FSL1H221J	CERAMIC 220PF J	T E	
C37			CC45SL1H221J	CERAMIC 220PF J	E2	
C38 ,39			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C40 ,41			CF92FV1H472J	MF 4700PF J		
C44			C91-0769-05	CERAMIC 0.01UF M		
C45			CE04KW0J101M	ELECTRO 100UF 6.3WV		
C46			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
C46			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
C47			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C48			CK45FF1H473Z	CERAMIC 0.047UF Z	T E	
C48			CK45F1H473Z	CERAMIC 0.047UF Z	E2	
C49			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C50			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C51			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
C51			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
C52			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C53			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
C53			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
C101			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
C101			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
C102-104			CK45B1H102K	CERAMIC 1000PF K	E2	
C102-104			CK45FB1H102K	CERAMIC 1000PF K	T E	
C105			CC45FSL1H560J	CERAMIC 56PF J	T E	
C105			CC45SL1H560J	CERAMIC 56PF J	E2	
C106			CC45FSL1H270J	CERAMIC 27PF J	T E	
C106			CC45SL1H270J	CERAMIC 27PF J	E2	
C107			CE04KW1V100M	ELECTRO 10UF 35WV		
C108			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C109,110			CC45FSL1H101J	CERAMIC 100PF J	T E	
C109,110			CC45SL1H101J	CERAMIC 100PF J	E2	
C111			CE04KW1V100M	ELECTRO 10UF 35WV		
C113			C91-0757-05	CERAMIC 0.001UF K		
C118,119			C91-0757-05	CERAMIC 0.001UF K		
C123,124			CC45CH1H330J	CERAMIC 33PF J	E2	
C123,124			CC45FCH1H330J	CERAMIC 33PF J	T E	
C150			CE04KW1C470M	ELECTRO 47UF 16WV		
C151-153			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
C151-153			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
C154			CE04KW1V102M	ELECTRO 1000UF 35WV		
C155			CE04KW1C471M	ELECTRO 470UF 16WV		
C156			CE04KW1E221M	ELECTRO 220UF 25WV		
C157			CE04KW1C221M	ELECTRO 220UF 16WV		
C158			CE04KW1V100M	ELECTRO 10UF 35WV		
C159			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
C159			CK45F1H103Z	CERAMIC 0.010UF Z	E2	
C160			CE04KW1V100M	ELECTRO 10UF 35WV		
C161			C91-0769-05	CERAMIC 0.01UF M		
C163,164			CK45FF1H103Z	CERAMIC 0.010UF Z	T E	
C163,164			CK45F1H103Z	CERAMIC 0.010UF Z	E2	

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C165,166			CE04KW1E102M	ELECTRO 1000UF 25WV		
C167			CE04KW0J102M	ELECTRO 1000UF 6.3WV		
C168			CE04KW0J222M	ELECTRO 2200UF 6.3WV		
C169			CE04KW1V100M	ELECTRO 10UF 35WV		
C171			C90-1400-05	NP-ELEC 10UF 50WV		
C172			CK45F1H103Z	CERAMIC 0.010UF Z		
TC1			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF		
TC2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
TC3			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF		
TC4			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF		
E1	1C		E20-0318-05	SCREW TERMINAL BOARD(2P)ANT		
E2	1B		E13-0217-05	PHONO JACK (2P)OUTPUT		
CF1 ,2			L72-0190-05	CERAMIC FILTER		
CF3			L72-0099-05	CERAMIC FILTER		
CF4			L72-0096-05	CERAMIC FILTER		
L1			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)		
L2			L31-0499-05	LW-RF COIL		
L3			L31-0509-05	MW-RF COIL		
L4			L32-0288-05	LW OSCILLATING COIL		
L5			L32-0277-15	MW OSCILLATING COIL		
L7			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L8 ,9			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)		
L10			L79-0125-05	LC FILTER		
L11			L79-0154-05	LC FILTER		
L12			L30-0362-05	AM IFT		
L13		*	L30-0439-15	FM IFT		
X1			L77-0573-05	CRYSTAL RESONATOR(4.5MHZ)		
X2		*	L77-1118-05	CRYSTAL RESONATOR		
R153		*	RS14DB3A151J	FL-PROOF RS 150 J 1W	T E	
R153			RS14KB3A151J	FL-PROOF RS 150 J 1W	E2	
R154			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R155			RD14AB2E151J	FL-PROOF RD 150 J 1/4W	T E	
R155			RD14GB2E151J	FL-PROOF RD 150 J 1/4W	E2	
R156			RD14AB2E101J	FL-PROOF RD 100 J 1/4W	T E	
R156			RD14GB2E101J	FL-PROOF RD 100 J 1/4W	E2	
R157			RD14AB2E221J	FL-PROOF RD 220 J 1/4W	T E	
R157			RD14GB2E221J	FL-PROOF RD 220 J 1/4W	E2	
R164			RD14AB2E330J	FL-PROOF RD 33 J 1/4W	T E	
R164			RD14GB2E330J	FL-PROOF RD 33 J 1/4W	E2	
R165,166			RS14DB3D102J	FL-PROOF RS 1.0K J 2W	T E	
R165,166			RS14KB3D102J	FL-PROOF RS 1.0K J 2W	E2	
VR1			R12-3098-05	TRIMMING POT.(33K)FM TUNE		
VR2			R12-1069-05	TRIMMING POT.(4.7K)VCO		
VR3			R12-5047-05	TRIMMING POT.(220K)SEP		
VR4			R12-3096-05	TRIMMING POT.(10K)AM TUNE		
⚠ K1			S51-1036-05	MAGNETIC RELAY		
S1 -30	2B,2C		S40-1064-05	PUSH SWITCH (1-0,ENTER,PROG		
S31	1B		S31-2075-05	SLIDE SWITCH (LW CH FREQ)		
S33	1B		S31-2075-05	SLIDE SWITCH (STATION NAME)		
D1			1N4148	DIODE	E2	
D1			1SS133	DIODE	T E	
D1			1SS176	DIODE	T E	
D2 ,3			KV1236(Z2)	VARIABLE CAPACITANCE DIODE		

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D4 -15			1N4148	DIODE	E2	
D4 -15			1SS133	DIODE	T E	
D4 -15			1SS176	DIODE	T E	
D17 -20			1N4148	DIODE	E2	
D17 -20			1SS133	DIODE	T E	
D17 -20			1SS176	DIODE	T E	
D21		*	BZX55-C5V1	ZENER DIODE	E2	
D21			HZS5.1N(B)	ZENER DIODE	T E	
D21			RD5.1ES(B)	ZENER DIODE	T E	
D22			1N4148	DIODE	E2	
D22			1SS133	DIODE	T E	
D22			1SS176	DIODE	T E	
D29 -31			1N4148	DIODE	E2	
D29 -31			1SS133	DIODE	T E	
D29 -31			1SS176	DIODE	T E	
D51			1B4B41	DIODE		
D52		*	HZS15N(B2)	ZENER DIODE		
D52		*	RD15ES(B2)	ZENER DIODE		
D54 -56			DSM1A1	DIODE	T E	
D54 -56		*	1N4004	DIODE	E2	
D57		*	BZX55-C5V1	ZENER DIODE	E2	
D57			HZS5.1N(B2)	ZENER DIODE	T E	
D57			RD5.1ES(B2)	ZENER DIODE	T E	
D61			DSM1A1	DIODE	T E	
D61		*	1N4004	DIODE	E2	
FL1	1B	*	FIP12PM7	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3		*	CX7925B	IC(FREQUENCY SYNTHESIZER PLL)		
IC4		*	CXP5016-196S	IC(MICROPROCESSOR)		
IC5			LA7910	IC(ELECTRON TV TUNER BAND SEL)		
Q1			2SC1923(R,Q)	TRANSISTOR		
Q2 ,3		*	JC501(P,Q)	TRANSISTOR	E2	
Q2 ,3			2SC1740S(Q,R)	TRANSISTOR	T E	
Q2 ,3			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q4 ,5			2SK364(GR,BL)	FET		
Q7		*	JC501(P,Q)	TRANSISTOR	E2	
Q7			2SC1740S(Q,R)	TRANSISTOR	T E	
Q7			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q8 ,9			2SD1302(S)	TRANSISTOR	E2	
Q8 ,9			2SD1302(S,T)	TRANSISTOR	T E	
Q10			2SK364(GR,BL)	FET		
Q11		*	JC501(P,Q)	TRANSISTOR	E2	
Q11			2SC1740S(Q,R)	TRANSISTOR	T E	
Q11			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q12			2SC1845(F,E)	TRANSISTOR		
Q13 ,14		*	JC501(P,Q)	TRANSISTOR	E2	
Q13 ,14			2SC1740S(Q,R)	TRANSISTOR	T E	
Q13 ,14			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q19		*	JC501(P,Q)	TRANSISTOR	E2	
Q19			2SC1740S(Q,R)	TRANSISTOR	T E	
Q19			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q31		*	JC501(P,Q)	TRANSISTOR	E2	
Q31			2SC1740S(Q,R)	TRANSISTOR	T E	
Q31			2SC945(A)(Q,P)	TRANSISTOR	T E	

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KT-550L

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Q32 ,33		*	JA501(P,Q)	TRANSISTOR	E2	
Q32 ,33			2SA733(A)(Q,P)	TRANSISTOR	T E	
Q32 ,33			2SA933S(Q,R)	TRANSISTOR	T E	
Q34			2SA999(E,F)	TRANSISTOR		
Q35		*	JC501(P,Q)	TRANSISTOR	E2	
Q35			2SC1740S(Q,R)	TRANSISTOR	T E	
Q35			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q36		*	JA501(P,Q)	TRANSISTOR	E2	
Q36			2SA733(A)(Q,P)	TRANSISTOR	T E	
Q36			2SA933S(Q,R)	TRANSISTOR	T E	
Q37 ,38		*	JC501(P,Q)	TRANSISTOR	E2	
Q37 ,38			2SC1740S(Q,R)	TRANSISTOR	T E	
Q37 ,38			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q39 -42		*	JA501(P,Q)	TRANSISTOR	E2	
Q39 -42			2SA733(A)(Q,P)	TRANSISTOR	T E	
Q39 -42			2SA933S(Q,R)	TRANSISTOR	T E	
Q43		*	JC501(P,Q)	TRANSISTOR	E2	
Q43			2SC1740S(Q,R)	TRANSISTOR	T E	
Q43			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q44			2SD1266(Q,P)	TRANSISTOR		
Q45		*	JC501(P,Q)	TRANSISTOR	E2	
Q45			2SC1740S(Q,R)	TRANSISTOR	T E	
Q45			2SC945(A)(Q,P)	TRANSISTOR	T E	
Q46		*	JA501(P,Q)	TRANSISTOR	E2	
Q46			2SA733(A)(Q,P)	TRANSISTOR	T E	
Q46			2SA933S(Q,R)	TRANSISTOR	T E	
35	1C		W02-0700-05	FM FRONT-END ASSY	E2	
TUNER UNIT (X05-3342-71) Singapore made						
C1			C91-0769-05	CERAMIC 0.01UF M		
C2			CC45FTH1H101J	CERAMIC 100PF J		
C3 -8			CK45FF1H223Z	CERAMIC 0.022UF Z		
C9			CC45FCH1H151J	CERAMIC 150PF J		
C10			CQ09FS1H221JY0	POLYSTY 220PF J		
C11			C91-0769-05	CERAMIC 0.01UF M		
C12			CQ09FS1H391JY0	POLYSTY 390PF J		
C13 ,14			CK45FF1H223Z	CERAMIC 0.022UF Z		
C15			CE04LW1V100M	ELECTRO 10UF 35WV		
C16			CC45FSL1H101J	CERAMIC 100PF J		
C17			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C18			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C19			CE04LW1H4R7M	ELECTRO 4.7UF 50WV		
C20			CK45FF1H223Z	CERAMIC 0.022UF Z		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CK45FF1H223Z	CERAMIC 0.022UF Z		
C23 ,24			CK45FF1H103Z	CERAMIC 0.010UF Z		
C25			CF92FV1H153J	MF 0.015UF J		
C26			CE04LW1V100M	ELECTRO 10UF 35WV		
C27			CQ09FS1H471J	POLYSTY 470PF J		
C28			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C29			CE04LW1H3R3M	ELECTRO 3.3UF 50WV		
C30			CF92FV1H473J	MF 0.047UF J		
C31			CK45FB1H561K	CERAMIC 560PF K		
C32			CE04LW1HR47M	ELECTRO 0.47UF 50WV		

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C33 ,34			CE04KW1C220M	ELECTRO	22UF	16WV		
C35 ,36			CK45FB1H102K	CERAMIC	1000PF	K		
C37			CC45FSL1H221J	CERAMIC	220PF	J		
C38 ,39			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C40 ,41			CF92FV1H472J	MF	4700PF	J		
C44			C91-0769-05	CERAMIC	0.01UF	M		
C45		*	CE04LW0J101M	ELECTRO	100UF	6.3WV		
C46			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C47			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C48			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C49			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C50			CE04LW1HR47M	ELECTRO	0.47UF	50WV		
C51			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C52			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C53			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C101			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C102-104			CK45FB1H102K	CERAMIC	1000PF	K		
C105			CC45FSL1H560J	CERAMIC	56PF	J		
C106			CC45FSL1H270J	CERAMIC	27PF	J		
C107			CE04LW1V100M	ELECTRO	10UF	35WV		
C108			CE04LW1HR47M	ELECTRO	0.47UF	50WV		
C109,110			CC45FSL1H101J	CERAMIC	100PF	J		
C111			CE04LW1V100M	ELECTRO	10UF	35WV		
C113			C91-0757-05	CERAMIC	0.001UF	K		
C118,119			C91-0757-05	CERAMIC	0.001UF	K		
C123,124			CC45FCH1H330J	CERAMIC	33PF	J		
C150			CE04LW1C470M	ELECTRO	47UF	16WV		
C151-153			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C154		*	CE04EW1V102M	ELECTRO	1000UF	35WV		
C155		*	CE04EW1C471M	ELECTRO	470UF	16WV		
C156		*	CE04EW1E221M	ELECTRO	220UF	25WV		
C157			CE04LW1C221M	ELECTRO	220UF	16WV		
C158			CE04LW1V100M	ELECTRO	10UF	35WV		
C159			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C160			CE04LW1V100M	ELECTRO	10UF	35WV		
C161			C91-0769-05	CERAMIC	0.01UF	M		
C163,164			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C165,166		*	CE04EW1E102M	ELECTRO	1000UF	25WV		
C167		*	CE04EW0J102M	ELECTRO	1000UF	6.3WV		
C168		*	CE04EW0J222M	ELECTRO	2200UF	6.3WV		
C169			CE04LW1V100M	ELECTRO	10UF	35WV		
C171			C90-1400-05	NP-ELEC	10UF	50WV		
C172			CK45F1H103Z	CERAMIC	0.010UF	Z		
TC1			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF				
TC2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF				
TC3			C05-0097-05	CERAMIC TRIMMER CAPACITOR(30PF				
TC4			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF				
E1	1C		E20-0318-05	SCREW TERMINAL BOARD(2P)ANT				
E2	1B		E13-0217-05	PHONO JACK (2P)OUTPUT				
CF1 ,2			L72-0190-05	CERAMIC FILTER				
CF3			L72-0099-05	CERAMIC FILTER				
CF4			L72-0096-05	CERAMIC FILTER				
L1			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)				
L2			L31-0499-05	LW-RF COIL				

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L3			L31-0509-05	MW-RF COIL		
L4			L32-0288-05	LW OSCILLATING COIL		
L5			L32-0277-15	MW OSCILLATING COIL		
L7			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
L8 ,9			L40-1092-14	SMALL FIXED INDUCTOR(1.0UH,M)		
L10			L79-0125-05	LC FILTER		
L11			L79-0154-05	LC FILTER		
L12			L30-0362-05	AM IFT		
L13			L30-0439-15	FM IFT		
X1			L77-0573-05	CRYSTAL RESONATOR(4.5MHZ)		
X2			L77-1118-05	CRYSTAL RESONATOR		
R153			RS14KB3A151J	FL-PROOF RS 150 J 1W		
R154			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R155			RD14GB2E151J	FL-PROOF RD 150 J 1/4W		
R156			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R157			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R164			RD14GB2E330J	FL-PROOF RD 33 J 1/4W		
R165,166			RS14KB3D681J	FL-PROOF RS 680 J 2W		
R167			RS14KB3A820J	FL-PROOF RS 82 J 1W		
R168			RS14KB3A122J	FL-PROOF RS 1.2K J 1W		
VR1			R12-3098-05	TRIMMING POT.(33K) FM TUNE		
VR2			R12-1069-05	TRIMMING POT.(4.7K)VCO		
VR3			R12-5047-05	TRIMMING POT.(220K)SEP		
VR4			R12-3096-05	TRIMMING POT.(10K) AM TUNE		
⚠ K1			S51-1036-05	MAGNETIC RELAY		
S1 -30	2B,2C		S40-1064-05	PUSH SWITCH (1-0,ENTER,PROG)		
S31	1B		S31-2075-05	SLIDE SWITCH (LW CH FREQ)		
S33	1B		S31-2075-05	SLIDE SWITCH (STATION NAME)		
D1			1SS133	DIODE		
D1			1SS176	DIODE		
D2 ,3			KV1236(Z2)	VARIABLE CAPACITANCE DIODE		
D4 -15			1SS133	DIODE		
D4 -15			1SS176	DIODE		
D17 -20			1SS133	DIODE		
D17 -20			1SS176	DIODE		
D21			HZS5.1N(B)	ZENER DIODE		
D21			RD5.1ES(B)	ZENER DIODE		
D22			1SS133	DIODE		
D22			1SS176	DIODE		
D29 -31			1SS133	DIODE		
D29 -31			1SS176	DIODE		
D51			1B4B41	DIODE		
D52			HZS15N(B2)	ZENER DIODE		
D52			RD15ES(B2)	ZENER DIODE		
D54 -56			DSM1A1	DIODE		
D57			HZS5.1N(B2)	ZENER DIODE		
D57			RD5.1ES(B2)	ZENER DIODE		
FL1	1B		FIP12PM7	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			CX7925B	IC(FREQUENCY SYNTHESIZER PLL)		
IC4			CXP5016-196S	IC(MICROPROCESSOR)		
IC5			LA7910	IC(ELECTRON TV TUNER BAND SEL)		

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Q1			2SC1923(R,0)	TRANSISTOR			
Q2 ,3			2SC1740S(Q,R)	TRANSISTOR			
Q2 ,3			2SC945(A)(Q,P)	TRANSISTOR			
Q4 ,5			2SK364(GR,BL)	FET			
Q7			2SC1740S(Q,R)	TRANSISTOR			
Q7			2SC945(A)(Q,P)	TRANSISTOR			
Q8 ,9			2SD1302(S,T)	TRANSISTOR			
Q10			2SK364(GR,BL)	FET			
Q11			2SC1740S(Q,R)	TRANSISTOR			
Q11			2SC945(A)(Q,P)	TRANSISTOR			
Q12			2SC1845(F,E)	TRANSISTOR			
Q13 ,14			2SC1740S(Q,R)	TRANSISTOR			
Q13 ,14			2SC945(A)(Q,P)	TRANSISTOR			
Q19			2SC1740S(Q,R)	TRANSISTOR			
Q19			2SC945(A)(Q,P)	TRANSISTOR			
Q31			2SC1740S(Q,R)	TRANSISTOR			
Q31			2SC945(A)(Q,P)	TRANSISTOR			
Q32 ,33			2SA733(A)(Q,P)	TRANSISTOR			
Q32 ,33			2SA933S(Q,R)	TRANSISTOR			
Q34			2SA999(E,F)	TRANSISTOR			
Q35			2SC1740S(Q,R)	TRANSISTOR			
Q35			2SC945(A)(Q,P)	TRANSISTOR			
Q36			2SA733(A)(Q,P)	TRANSISTOR			
Q36			2SA933S(Q,R)	TRANSISTOR			
Q37 ,38			2SC1740S(Q,R)	TRANSISTOR			
Q37 ,38			2SC945(A)(Q,P)	TRANSISTOR			
Q39 -42			2SA733(A)(Q,P)	TRANSISTOR			
Q39 -42			2SA933S(Q,R)	TRANSISTOR			
Q43			2SC1740S(Q,R)	TRANSISTOR			
Q43			2SC945(A)(Q,P)	TRANSISTOR			
Q44			2SD1266(Q,P)	TRANSISTOR			
Q45			2SC1740S(Q,R)	TRANSISTOR			
Q45			2SC945(A)(Q,P)	TRANSISTOR			
Q46			2SA733(A)(Q,P)	TRANSISTOR			
Q46			2SA933S(Q,R)	TRANSISTOR			
35	1C		W02-0700-05	FM FRONT-END ASSY			
FRONT-END UNIT (X86-1052-70) X05へ移入のため削除。							
C1		*	CC41FSL1H060D	CYLND CHIP C 6.0PF	D	T E	
C2			C93-0012-05	CYLND CHIP C 0.01UF	M	T E	
C3		*	CC41FSL1H100D	CYLND CHIP C 10PF	D	T E	
C4			C93-0012-05	CYLND CHIP C 0.01UF	M	T E	
C5			CK41FB1H221K	CYLND CHIP C 220PF	K	T E	
C6		*	CC41FSL1H100D	CYLND CHIP C 10PF	D	T E	
C7		*	CC41FSL1H060D	CYLND CHIP C 6.0PF	D	T E	
C8		*	CC41FSL1H100D	CYLND CHIP C 10PF	D	T E	
C9			CK41FB1H221K	CYLND CHIP C 220PF	K	T E	
C10			C93-0012-05	CYLND CHIP C 0.01UF	M	T E	
C11			CK41FY1E102M	CYLND CHIP C 1000PF	M	T E	
C12		*	CC41FSL1H030C	CYLND CHIP C 3.0PF	C	T E	
C13		*	CC41FSL1H100D	CYLND CHIP C 10PF	D	T E	
C14			C93-0012-05	CYLND CHIP C 0.01UF	M	T E	
C16		*	CC41FSL1H080D	CYLND CHIP C 8.0PF	D	T E	
C17			CC41FSL1H330J	CYLND CHIP C 33PF	J	T E	
C18		*	CC41FSL1H150J	CYLND CHIP C 15PF	J	T E	

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C19		*	CC41FSL1H010C	CYLND CHIP C 1.0PF	C	T E	
C20			CK41FY1E102M	CYLND CHIP C 1000PF	M	T E	
C21		*	CC41FSL1H470J	CYLND CHIP C 47PF	J	T E	
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF		T E	
L1		*	L31-0551-05	FM-RF COIL		T E	
L2		*	L31-0552-05	FM-RF COIL		T E	
L3		*	L31-0553-05	FM-RF COIL		T E	
L4			L40-1092-16	SMALL FIXED INDUCTOR(1UH,M)		T E	
L5		*	L31-0554-05	FM-RF COIL		T E	
L7			L32-0318-05	FM OSCILLATING COIL		T E	
T1			L30-0427-15	FM IFT		T E	
-			R92-0338-05	CLYND CHIP R 0 OHM		T E	
-			R92-0350-05	JUMPER WIRE (RESISTOR TYPE)		T E	
R1			RD41FB2B473J	CYLND CHIP R 47K	J 1/8W	T E	
R2			RD41FB2B104J	CYLND CHIP R 100K	J 1/8W	T E	
R3			RD41FB2B470J	CYLND CHIP R 47	J 1/8W	T E	
R4			RD41FB2B331J	CYLND CHIP R 330	J 1/8W	T E	
R5			RD41FB2B101J	CYLND CHIP R 100	J 1/8W	T E	
R6 ,7			RD41FB2B473J	CYLND CHIP R 47K	J 1/8W	T E	
R8 ,9			RD41FB2B104J	CYLND CHIP R 100K	J 1/8W	T E	
R11			RD41FB2B101J	CYLND CHIP R 100	J 1/8W	T E	
R12			RD41FB2B681J	CYLND CHIP R 680	J 1/8W	T E	
R13			RD41FB2B104J	CYLND CHIP R 100K	J 1/8W	T E	
R14			RD41FB2B472J	CYLND CHIP R 4.7K	J 1/8W	T E	
R15 ,16			RD41FB2B223J	CYLND CHIP R 22K	J 1/8W	T E	
R17			RD41FB2B222J	CYLND CHIP R 2.2K	J 1/8W	T E	
R18			RD41FB2B224J	CYLND CHIP R 220K	J 1/8W	T E	
R19 ,20			RD41FB2B101J	CYLND CHIP R 100	J 1/8W	T E	
D1 -4			KV1310-4	VARIABLE CAPACITANCE DIODE		T E	
Q1			2SK302(Y,GR)	FET		T E	
Q2		*	3SK131(M,L)	FET		T E	
Q3			2SK302(Y,GR)	FET		T E	
Q4 ,5		*	2SC2714(R,0)	TRANSISTOR		T E	
FM FRONT-END ASSY (W02-0700-05) Singapore made, France made							
D1 -4			1SV110	DIODE			
TR1			3SK85	TRANSISTOR			
TR2 ,3			2SC3391	TRANSISTOR			
TR2 ,3			2SC535	TRANSISTOR			
TR4			2SC2839	TRANSISTOR			
TR5			2SK241	TRANSISTOR			
TR5			2SK439	TRANSISTOR			

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SPECIFICATIONS

FM Tuner Section

Tuning frequency range	87.5 MHz – 108 MHz
Antenna impedance	75 ohms unbalanced
Sensitivity (DIN)	
Mono: S/N 26 dB, 40 kHz Dev.	1.0 μV
Stereo: S/N 46 dB, 46 kHz Dev.	29 μV
Limiting level	
– 3 dB point, 40 kHz Dev.	0.5 μV
Total harmonic distortion (DIN)	
Mono: 1 kHz, 40 kHz Dev.	0.15 %
Stereo: 1 kHz, 46 kHz Dev.	0.2 %
Signal-to-Noise ratio unweighted (DIN)	
Mono: 40 kHz Dev.; 1 mV input	68 dB
Stereo:46 kHz Dev.; 1 mV input	64 dB
Signal-to-Noise raito weighted (DIN)	
Mono: 40 kHz Dev.; 1 mV input	68 dB
Stereo: 46 kHz Dev.;1 mV input	63 dB
Capture Ratio	1.8 dB
Altemate Channel Selectivity (DIN: ±300kHz)	64 dB
FM stereo separation: 1 mV input (DIN)	
250 Hz	48 dB
1,000 Hz	50 dB
6,300 Hz	36 dB
12,500 Hz	28 dB
Frequency response	
30 – 15 kHz	+0.5 dB, –2.5 dB
Image rejection ratio (98 MHz)	75 dB
IF rejection ratio (98 MHz)	95 dB
Spurious rejection ratio (98 MHz)	100 dB
AM suppression ratio	70 dB
Sub-carrier suppression ratio	
do. 19 kHz, 46 kHz Dev.	70 dB
do. 38 kHz, 46 kHz Dev.	75 dB
Output level/impedance	
at 1 kHz, 100 % Dev. (fixed)	0.6V/3.3 kohms

MW Tuner Section

Tuning frequency range	531 kHz – 1602 kHz (9 kHz step)
Usable Sensitivity	14 μV (400 μV/m)
Signal-to-Noise ratio (30 % mod, 1 mV input)	50 dB
Total harmonic distortion	0.5 %
Image rejection ratio	40 dB
IF rejection ratio	50 dB
Selectivity (IHF)	25 dB
Output level/impedance (400 Hz, 30 % Mod.)	0.18V/3.3 kohms

LW Tuner Section

Tuning frequency range	153 kHz – 281 kHz (1 kHz step)
Usable Sensitivity	17 μV (800 μV/m)
Signal-to-Noise ratio (30 % mod, 1 mV input)	50 dB
Total harmonic distortion	0.5 %
Image rejection ratio	35 dB
IF rejection ratio	60 dB
Selectivity (IHF)	30 dB
Output level/impedance (400 Hz, 30 % Mod.)	0.18V/3.3 kohms

General

Power requirements	220 V, 50 Hz 240 V, 50 Hz (Great Britain model)
Power consumption	12 W
Dimensions	W: 420 mm H: 74 mm D: 267 mm
Weight (Net)	2.8 kg

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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