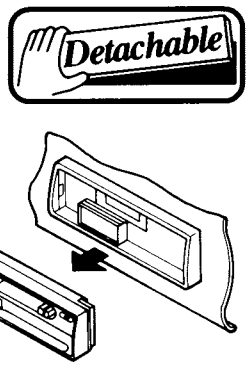
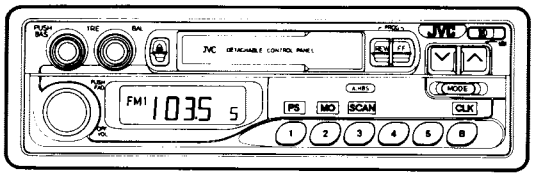
JVC

SERVICE MANUAL

CASSETTE CAR RECEIVER

KS-RT35 B/E/G/GE/GI





Area suffix

B ..... U.K.
E ..... Continental Europe
G ..... Germany
GE ..... Austria, Switzerland and Eastern Europe
GI ..... Italy

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No. 49210
April 1994

Instructions (Extract)

■ Features

- Detachable Control Panel
- AM/FM Stereo PLL Synthesizer Tuner
- 20-Station Preset Tuning (FM-15, AM [MW/LW]-5)
- Preset Scan/Scan/Seek/Manual Tuning
- SK/DK Traffic Information Reception (G/GE)
- U-Turn Auto-Reverse Mechanism
- Maximum Power Output of 8 watts per channel (2-channel) (KS-RT35)
- 4-Channel Amplifier System
  Maximum Power Output of 22 watts per channel (Front)/22 watts per channel (Rear) (KS-RT45)
- Active Hyper-Bass Sound
- Fader Control
- Digital Clock Display
- Mono Button

■ Specifications

AUDIO AMPLIFIER SECTION

(KS-RT35)
Maximum Power Output: 8 W per channel (2-channel), 5W per channel (4-channel)
Continuous Power Output (RMS): 3 W per channel into 4 Ω, 100 to 20,000 Hz at no more than 0.8% total harmonic distortion (2-channel).
(KS-RT45)
Maximum Power Output: (Front) 22 W per channel, (Rear) 22 W per channel
Continuous Power Output (RMS): (Front) 8 W per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8% total harmonic distortion. (Rear) 8 W per channel into 4 Ω, 40 to 20,000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 to 8 Ω allowance)
Tone Control Range
  Bass: ±10 dB at 100 Hz
  Treble: ±10 dB at 10 kHz
Frequency Response: 40 to 20,000 Hz
Signal-to-Noise Ratio: 60 dB

RADIO SECTION
Frequency Range
  FM: 87.5 to 108.0 MHz
  AM: (MW) 522 to 1,620 kHz
  (LW) 144 to 281 kHz (Manual)
  (LW) 144 to 279 kHz (Auto)
[FM Tuner]
Usable Sensitivity: 15.3 dBf (1.6 μV/75 Ω)
50 dB Quieting Sensitivity: 18.8 dBf (2.4 μV/75 Ω)
Alternate Channel Selectivity: (400 kHz): 65 dB
Frequency Response: 40 to 15,000 Hz
Stereo Separation: 30 dB
Capture Ratio: 1.5 dB

[MW Tuner]
Sensitivity: 20 μV
Selectivity: 35 dB
[LW Tuner]
Sensitivity: 50 μV

CASSETTE DECK SECTION
Wow & Flutter: 0.11% (WRMS)
Fast-Wind Time: 100 sec. (C-60)
Frequency Response: 50 to 14,000 Hz (±3 dB)
Signal-to-Noise Ratio: 52 dB
Stereo Separation: 40 dB

GENERAL
Power Requirement
  Operating Voltage: DC 14.4 volts (11 to 16 volts allowance)
  Grounding System: Negative ground
Dimensions (W x H x D) Installation Size: 178 x 50 x 151 mm (7-1/16" x 2" x 6")
  Panel Size: 190 x 58 x 18 mm (7-1/2" x 2-5/16" x 3/4")
Gross Weight: 1.8 kg (4.0 lbs)

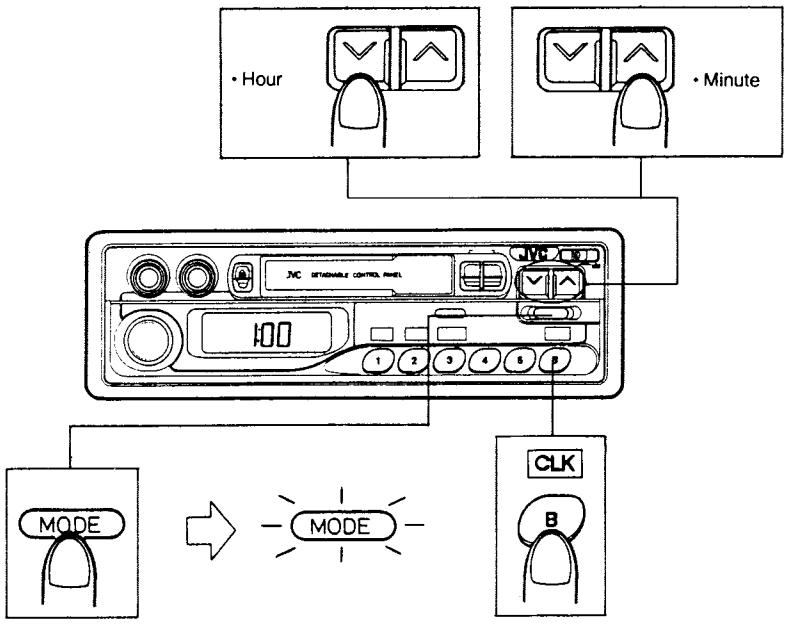
Design and specifications subject to change without notice.

■ Digital Clock Display

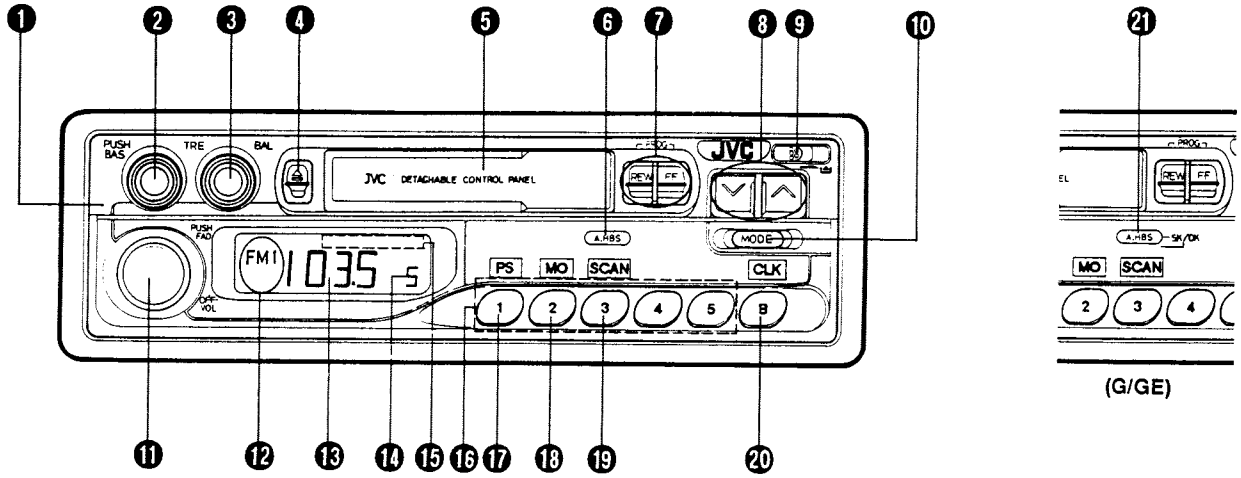
Each time the CLK button is pressed after the MODE button has been pressed and its indicator is lit red, Time mode or Tuner mode is engaged. When the radio is operated in Time mode, the displayed time switches to the frequency, and returns to Time mode after a few seconds.

How To Adjust The Time

Make sure the display is in Time mode with the MODE button lit in red. Then, while pressing the CLK button, press the Hour Adjustment button (⩒) to adjust the "hours", and press the Minute Adjustment button (⩓) to adjust the "minutes".



■ Location of controls



❶ Control panel
❷ Treble (TRE)/Push bass (PUSH BAS) Control
❸ Balance (BAL) Control
❹ Eject (⏏) button
❺ Cassette loading slot
❻ Active Hyper-Bass Sound (A.HBS) button (B/E/GI)
❼ Program (PROG)/REW, FF buttons
❽ Tuning/Hour/Minute Adjustment button
Down (﹀) frequency/Hour adjustment
Up (﹀) frequency/Minute adjustment
❾ Control Panel Release (⏏) switch
❿ MODE button
⓫ Power ON-OFF/Volume (VOL)/Push fader (PUSH FAD) controls
⓬ Band indicator (AM-FM1-FM2-FM3)
⓭ Radio Frequency/Time display
⓮ Preset Station display
⓯ Indicators
SK/DK (G/GE)
Mono (MO)
ST.(FM stereo)
Tape direction (◄►)
⓰ Preset Station buttons (No.1 to No.5)
⓴ Band (B) button
㉑ Active Hyper-Bass Sound (A.HBS) button
SK/DK button (G/GE)

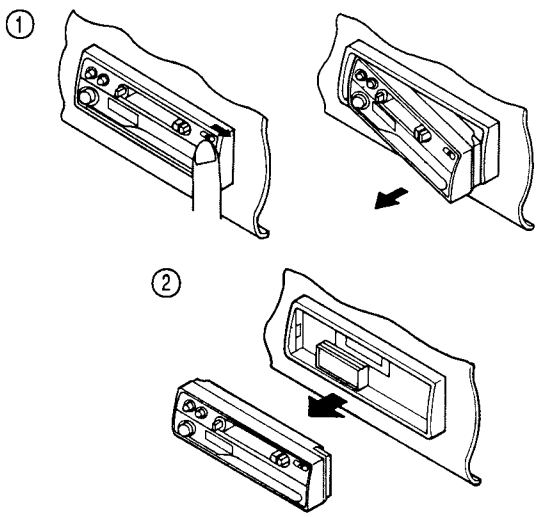
- Press the following buttons (⓱ to ⓴) after the MODE button has been pressed and its red indicator is lit. Five seconds after completing the operation, the MODE button's red indicator goes out.

⓱ Preset Scan (PS) button
⓲ MONO (MO) button
⓳ Scan (SCAN) button
⓴ Clock (CLK) button

■ Detach and atach the Control Panel

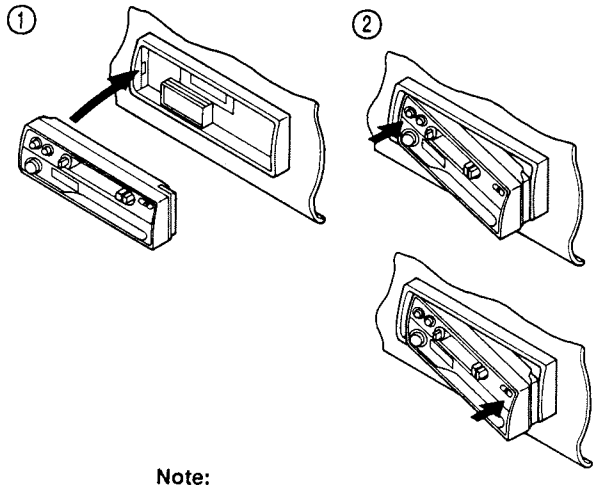
How To Detach The Control Panel

① Slide the Control Panel Release (⏏) switch in the direction of the arrow to detach the control panel.
② Pull the control panel out of the main unit, as shown below.
- Put the control panel in the provided case for protection.



How To Attach The Control Panel

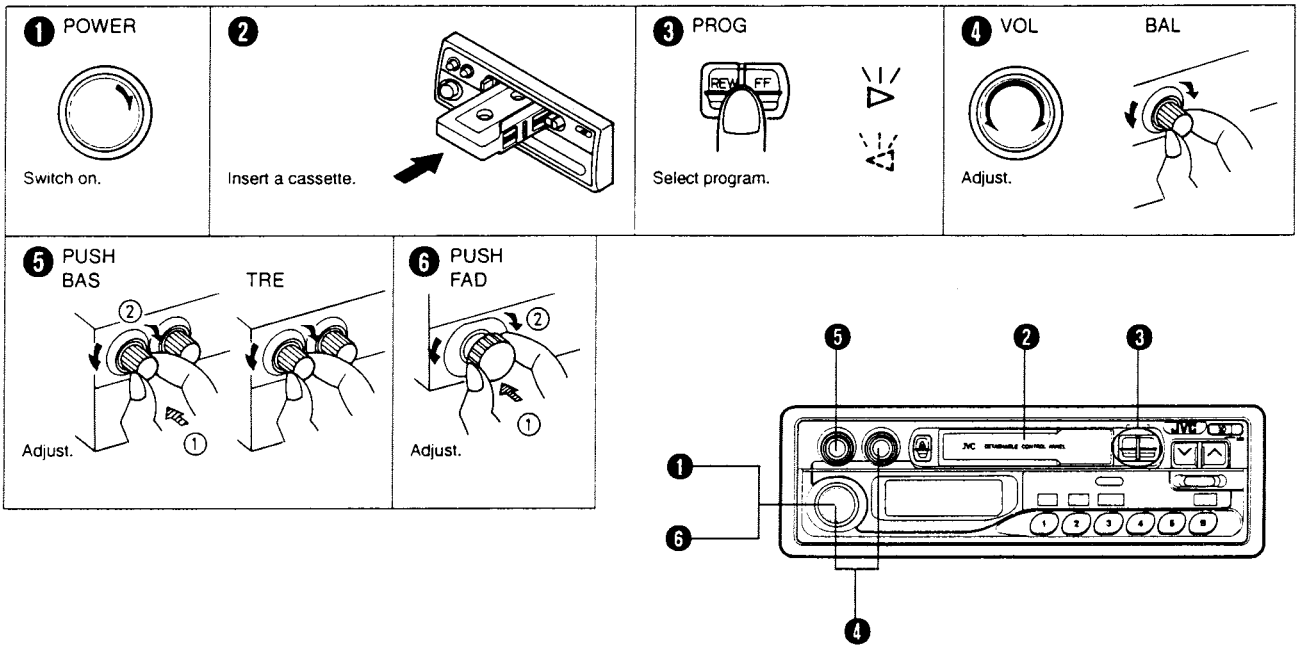
① Align the left side of the control panel with the left side of the holder.
② Press the left side of the control panel first, then the right side to set it correctly.



Note:
- Be careful not to damage the connector terminals when attaching/detaching the control panel or while the control panel is removed.

■ Tape Operation

Operate in the order shown.



How To Fast-Forward And Rewind Tapes

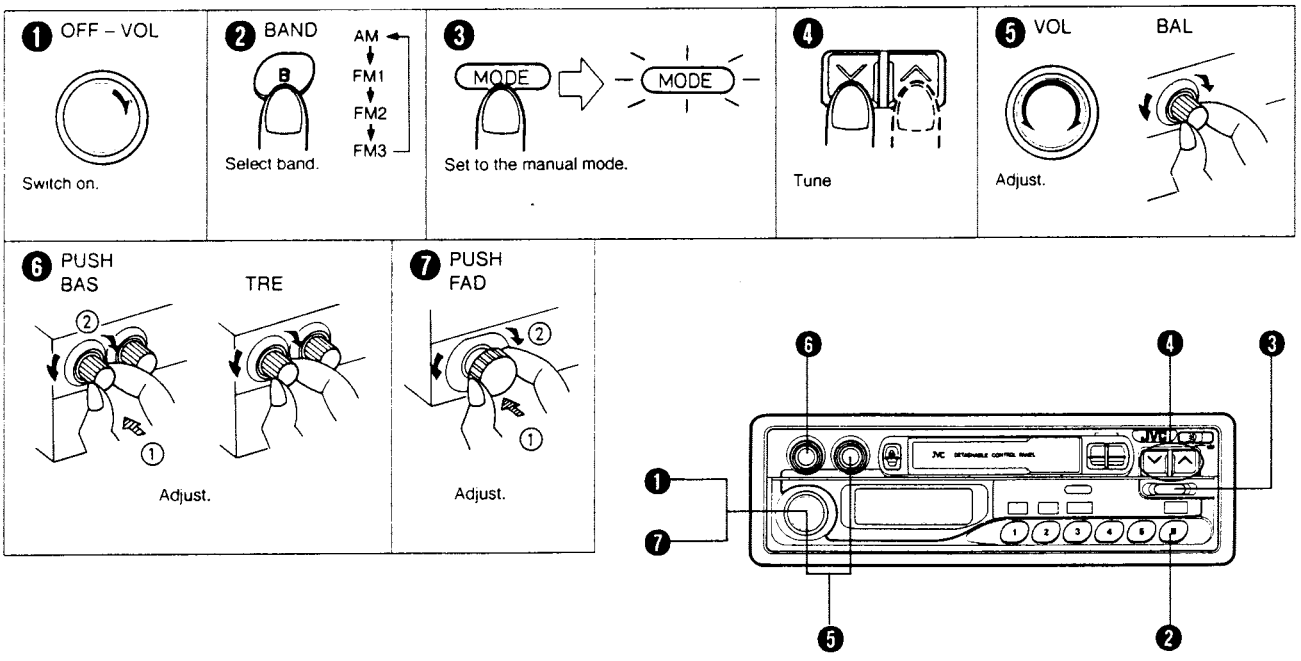
Press the FF button to fast-forward the side being played; when the tape end is detected, the tape is reversed and playback starts from the beginning of the other side.
Press the REW button to rewind the tape to its beginning, where playback restarts.
Lightly press the PROG button to start playback from the current position during fast-forward or rewind.

Auto-Reverse Mechanism

When the tape reaches its end, this mechanism automatically switches over to play back the other side. To listen to the other side of the tape during playback, press the PROG button. The change in direction can be checked in the Tape Direction indicator.

■ Radio Operation

Operate in the order shown. **In der gezeigten Reihenfolge vorgehen.** **Suivre l'ordre indiqué.**



Manual Tuning

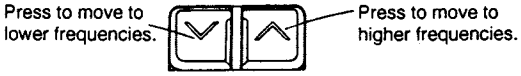
Set Manual mode using the MODE button. When the MODE button's red indicator is lit, the unit is in Manual mode. Then, by pressing the Tuning button, you can move up/down the frequency band. The band is scanned as long as either side of the button is pressed.

Frequency scan steps are as follows:

FM	—	in 50 kHz units
MW	—	in 9 kHz units.
LW	—	in 1 kHz unit.

In AM operation, the frequency continuously moves from the MW (522 to 1,620 kHz) to LW (144 to 281 kHz) band and vice versa.

- When approx. 5 seconds have elapsed after completing manual tuning, the unit switches back to Seek mode and the MODE button's red indicator goes out.



Seek Tuning

The unit is in Seek mode when the MODE button's red indicator goes out. Then, by pressing the ⩓ or ⩔ button the unit tunes to the adjacent station with a higher or lower frequency. In AM operation, the frequency continuously moves from the MW to LW band and vice versa.

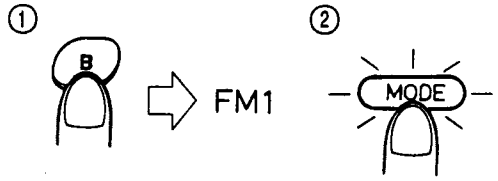
Scan Button Tuning

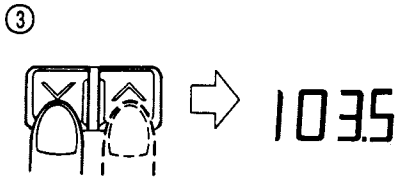
Use the SCAN button for automatic scanning of the FM and AM (MW/LW) frequency bands. Press this button after the MODE button has been pressed and the MODE button's indicator is lit, each station is monitored for approx. 5 seconds (the frequency blinks during this time). After 5 seconds have elapsed, the frequency advances to the next station which in turn is monitored for 5 seconds. To stop scanning, press the SCAN button again.

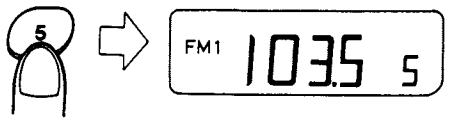
Preset Button Tuning

5 stations in each band (FM1, FM2, FM3 and AM [MW/LW]) can be preset as follows:

- **Example (when presetting Preset Station button "5" of the FM1 band to an FM station at 103.5 MHz)**







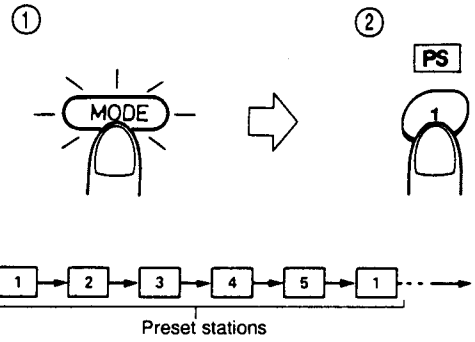
① Select the FM1 band using the B button.
② Set Manual mode.
③ Tune to the desired station.
④ Press Preset Station button "5" for more than 2 seconds. (When "5" blinks in the Preset Station display, the station is preset.)

- Repeat the above procedure for the other 4 Preset Station buttons and other bands (FM2, FM3 and AM [MW/LW]).

Notes:
- A previously preset station is erased when a new station is stored in memory.
- The preset stations are erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the stations again.

Preset Scan Button Tuning

This function makes it possible to automatically scan preset FM and AM (MW/LW) stations.



① Press the MODE button (its red indicator lights).
② Press the PS button.
- Scanning is performed in the order of the preset stations in each frequency band (FM1, FM2, FM3 and AM [MW/LW]). Each preset station is heard for approx. 5 seconds.

③ When the required station is heard, press the PS button again.

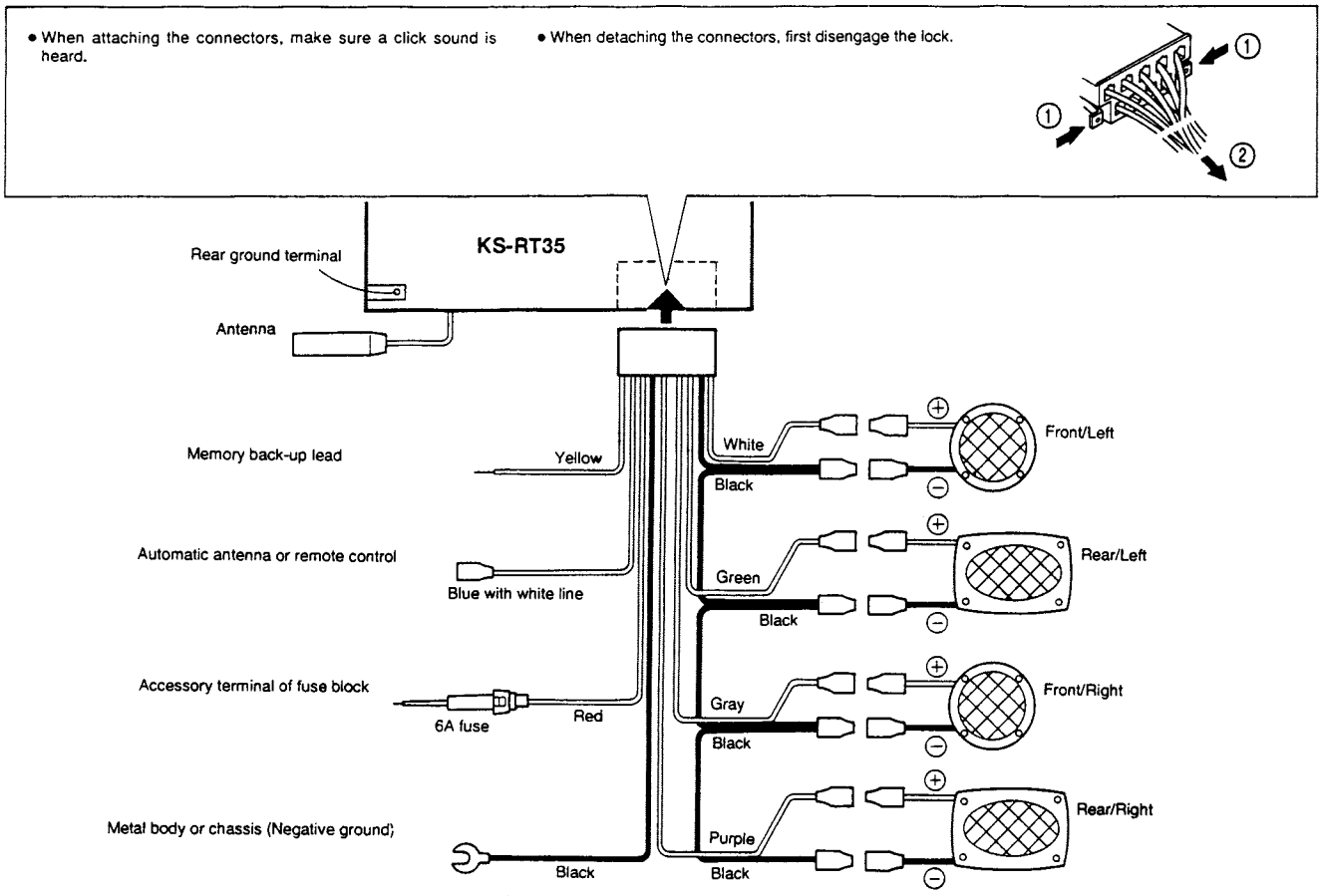
Mono Button

When listening to FM, set the MO button to STEREO or MONO after the MODE button has been pressed and its red indicator is lit.

Note:
Set to MONO when a stereo FM broadcast is too noisy and cannot be heard satisfactorily.

■ Electrical Connections

A. 4-Speaker Connections



B. 2-Speaker Connections

Two speakers can be connected to either the front or rear pair of speaker output terminals. Cover the unused terminals with insulating tape to prevent short-circuits.

C. Power Aerial (Automatic Antenna) Connections

This unit can perform automatic extension/retraction of a power aerial when the power is turned ON/OFF. The remote lead connection (blue with white lines) from the audio unit is via a separate relay to the aerial motor unit.

D. Memory Back-Up Lead

Connect this lead to a LIVE power source (supplied even when vehicle ignition is OFF).

E. Fader Control

- When used in a 4-speaker system
  When the PUSH FAD control is turned counterclockwise, the sound will be heard from the front speakers, and when turned clockwise, from the rear speakers.
- When used in a 2-speaker system
  Set this control to the center position.

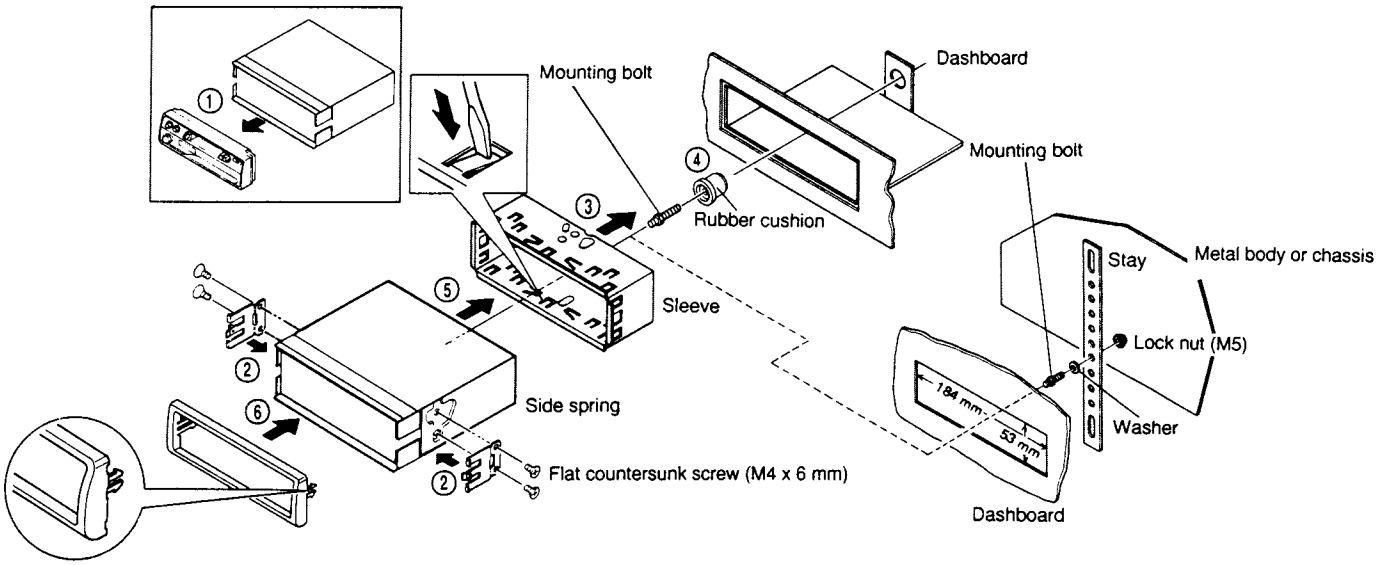
■ Installation (In – Dash Mounting)

IMPORTANT
- Before using this unit for the first time, press the Eject button fully, to reset the mechanism.

- The following illustration shows a typical installation. However, you should make adjustments corresponding to your specific car. If you have any questions or require information regarding installation kits, consult your JVC "IN-CAR ENTERTAINMENT" dealer.

① Slide the Control Panel Release (⏏) switch to the right and remove the control panel.
② Attach the 2 side springs.
③ Install the sleeve in the dashboard.
* After the sleeve is correctly installed in the dashboard, bend the appropriate tabs to hold the sleeve firmly in place, as shown.
④ Fix the mounting bolt to the rear of the unit's body and place the rubber cushion over the end of the bolt.
⑤ Slide the unit into the sleeve until they are locked together.
⑥ Attach the trim plate.

- Follow the numbers for mounting.

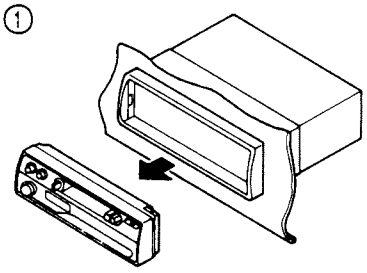


Removing the unit

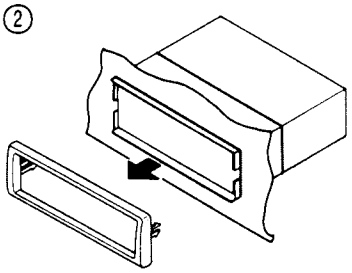
- Before removing the unit, release the rear section.

① Remove the control panel.
② Remove the trim plate.
③ Insert the 2 handles between the side springs and the sleeve, as shown. Then, while gently pulling the handles away from each other, slide out the unit.

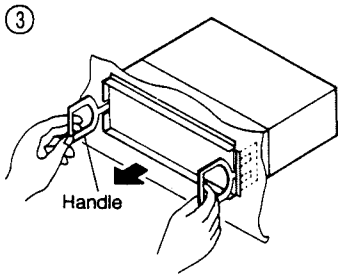
①



②



③



1 Location of Main Parts

■ B/E/GI version

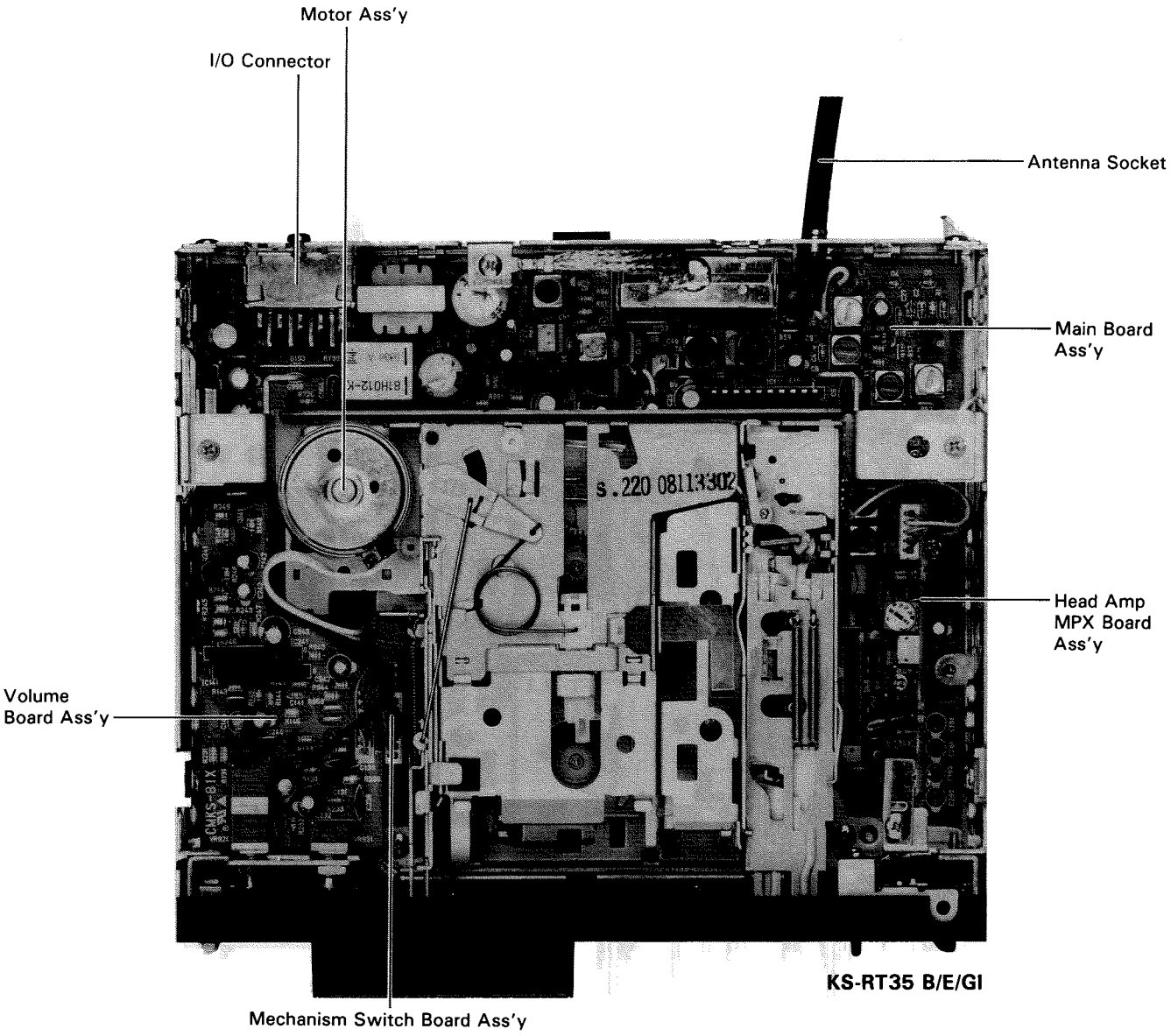


Fig. 1-1

■ G/GE verison

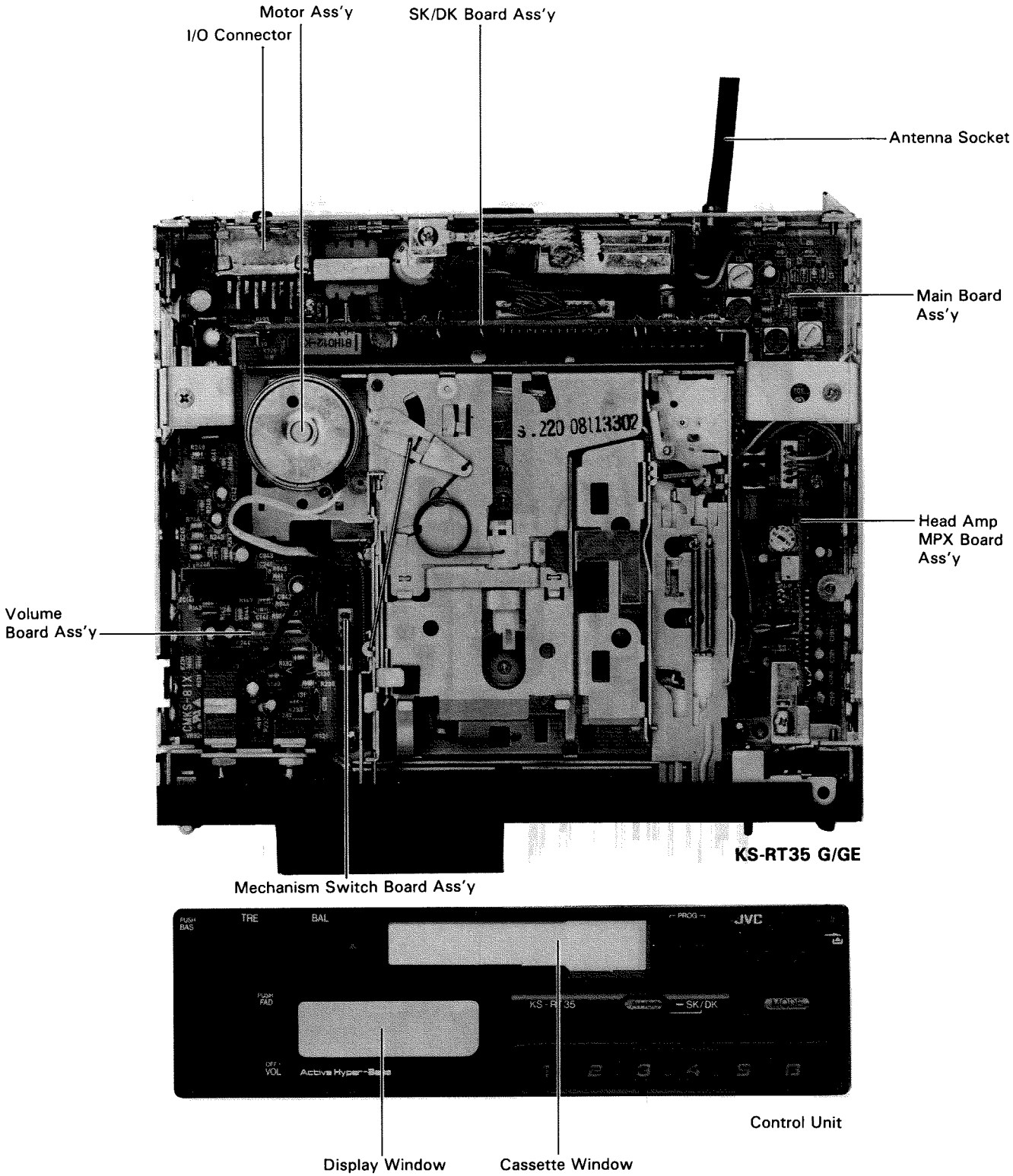


Fig. 1-2

2 Removal of Main Parts

■Enclosuer section

◆Top and bottom cover

1. Remove the six claws (A~D) on the right, left and rear sides retaining the top cover.
2. Remove the six claws (G~J) on the right, left and rear sides retaining thr bottom cover.

◆Control unit (See Fig. 2 – 2)

1. Remove the eject knob by sliding it to the right side.

◆Nose piece ass'y (See Fig.2 – 1~2 – 2)

1. Remove the four claws (E and F) on the right and left side.
2. The nose piece ass'y is connected to the main p. c. board by a connector under the 『PROG』 button on the right side of the mechanism. Dismount the nose piece ass'y by pulling it in straight direction.

★At the time of assembly align the ass'y so that the lamp enters the lamp hood.

◆Mechanism ass'y (SeeFig.2 – 3)

1. Remove the four screws ① and ② retaining the mechanism ass'y.
2. Disconnect two connectors , namely, the head wire connector to the Head amp/MPX p.c. board ass'y and the control connector from the mechanism p.c. board ass'y.

◆AM board ass'y(SeeFig.2 – 3)

1. Remove the one screw ⑥ retaining the AMboard ass'y
2. Pull out the AM board ass'y.

◆BASS/TRE. volume ass'y (SeeFig.2 – 4)

1. Remove the two shafts knob(knob joint)
2. Remove the two nuts retaining the volume and pull it backward.

★Under these condition, it will be possible to change the parts on the main p. c. board ass'y.

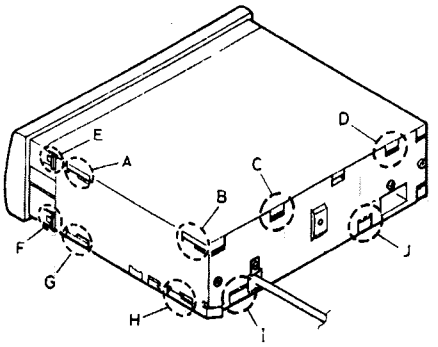


Fig 2 – 1

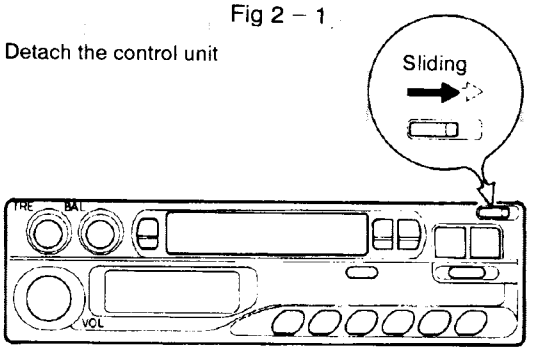


Fig. 2-2

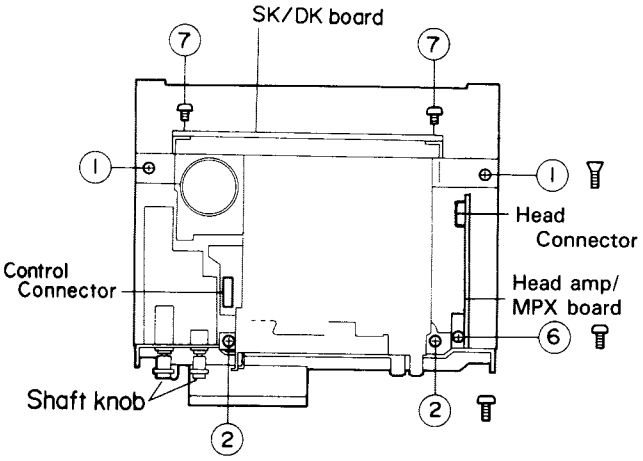


Fig. 2-3

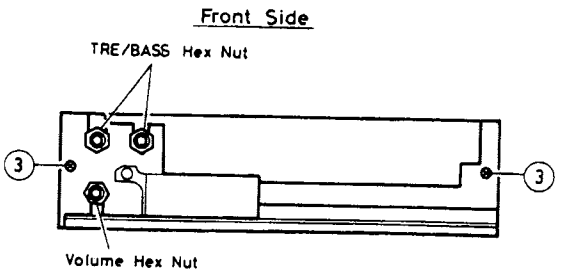


Fig. 2-4

◆ **Main volume** (See Fig.2 – 5)

1. Remove the shaft knob(knob joint).
2. Remove the two screws ③ retaining the front bracket.
3. Remove the nut retaining the volume.

◆ **Contorol unit**

1. When the screws retaining the case are removed, the retaining spring will by separated. Then, slowly disconnect the case.

◆ **SK/DK board ass'y** (G/GE only)(See Fig.2 – 6)

1. Remove the two screws ⑦ retaing the SK/DK board from backward of mechanism assembly.

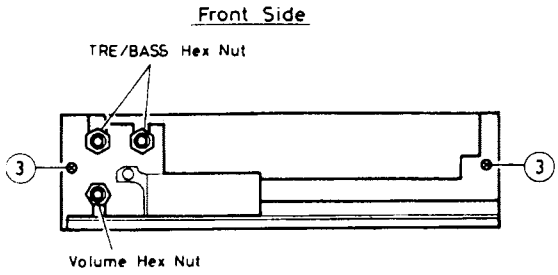


Fig. 2-5

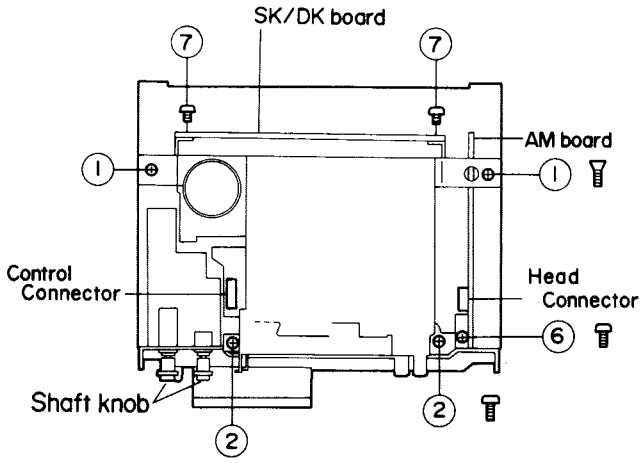


Fig. 2-6

■ Mechanism Section

◆ Head Removal

1. Remove screw ① retaining the FR bracket.
2. Left the FR lever assembly up in the direction of the arrow and remove the FRlever assembly from the chassis slots.
3. Remove the screw ② retaining the head plate.
4. Remove two screws ③ retaining the head.
5. When replacing the head make sure to adjust screws(A~D)and perform head angle and height adjustment.

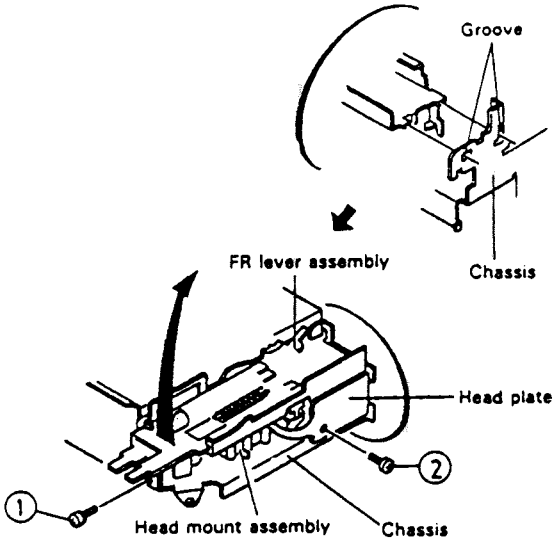


Fig. 2-7

◆ Pinch roller assembly

1. Remove the nylon washers retaining the left and right pinch rollers.
2. Pull out the pinch roller.

◆ Motor Assembly

Remove two screws(5)retaining the motor.

※ This operation is facillitated by leaving the belt hooked on to one of the chassis protrusions.

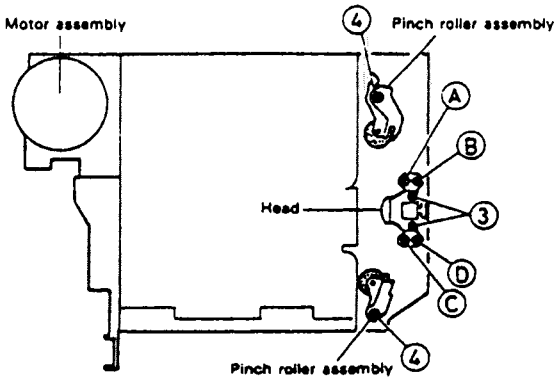


Fig. 2-8

◆ Belt

Thread the belt as indicated in the figure when replacing the belt.

※ Take care to avoid contact with grease or oil when replacing the belt.

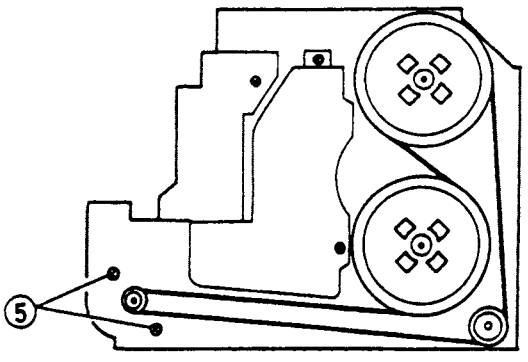


Fig. 2-9

3 Main Adjustment

■ Equipment and measuring instruments used for adjustment

- Electronic voltmetor
- Audio frequency oscillator
  (range:50~20kHz and output 0 dB with impedance of 600 Ω)
- Attenuator(impedance;600 Ω)
- Frequebcy counter
- AM Standard signal generator
- FM Standard signal generator
- Wow flutter mater
- Torqu testing cassette gauge
  CTG – N (mechanical adjusting)
  TW – 2111A (FWD play)
  TW – 2121A (REV play)
- Standard tape
  VTT703(head azimuth adj.)
  VTT712(tape speed,wow&flutter adj.)
  VTT724(reference level)
  VTT736(playback frequency response)
  VTT721(output level)

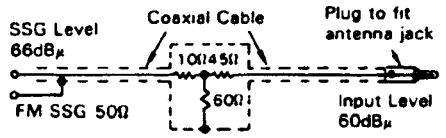
■ Condition for measurement

- Power Supply ····· DC14.4V
  (Reduced Voltage:10.5V)
- Load ····· 4 Ω
  (Tow speaker connection)
- BASS/TRE, FADER BALANCE ····· Center
- A – HBS ····· OFF
- Main volume ····· Position with an output level of 2.0V during VTT724 playback

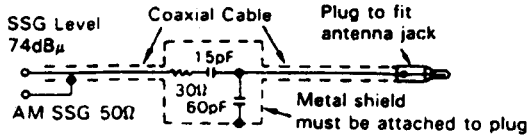
■ Tuner section

- FM ;400Hz, 22.5kHz deviation
- FM STEREO ;1kHz, 67.5kHz deviation, pilot signal 7.5kHz deviation.
- AM ;400Hz, 30% modulation
- Output impedance ;50 Ω (Level, 0dB=1 μ V/50 Ω)

■ Dummy antenna



FM DUMMY ANTENNA



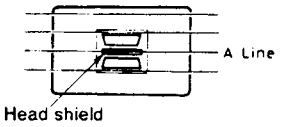
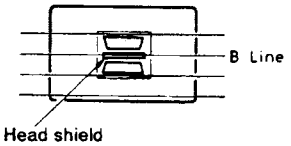
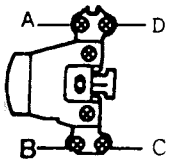
AM DUMMY ANTENNA

- Preset memory Initialization

Band	Preset Memory				
	M1	M2	M3	M4	M5
FM(MHz)	87.5	89.9	97.9	105.9	107.9
AM(kHz)	144	153	522	603	1404

- Manual Tuning Up/Down Frequency
  FM ;50kHz Step
  MW ;9kHz Step
  LW ;1kHz Step

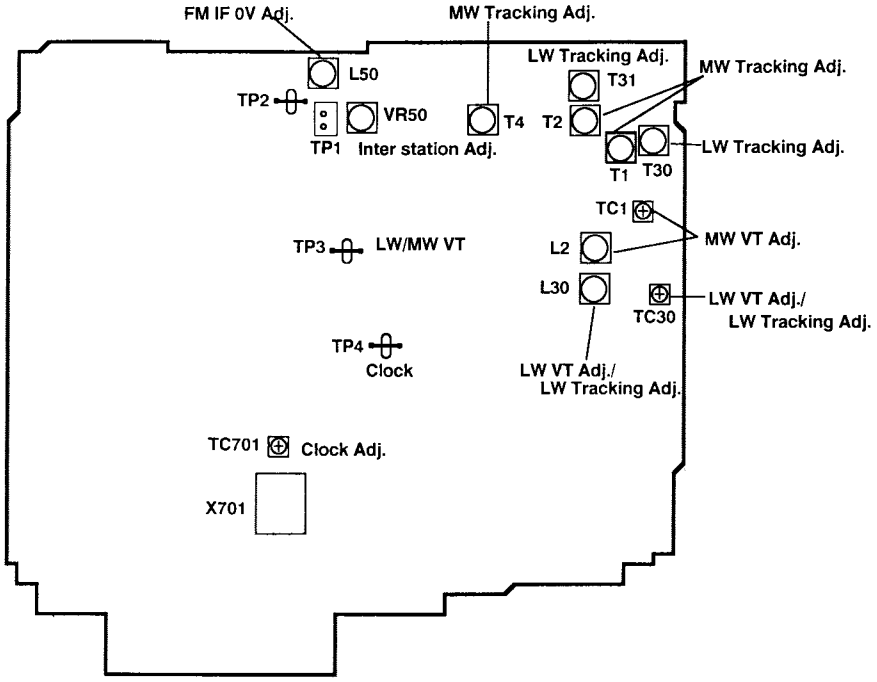
■ Tape section adjustment

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
1. Head Azimuth Adjustment	Test tape: SCC – 1659 VTT703(10kHz)	★In case the head and its height have been changed, it will be necessary to adjust the height of the head. 1. Adjustment of the height of head 1)When the mirrer tape SCC – 1659(2line tape) is travellin in the FWD. direction ,adjust the screws A and B so that the line A is located at the center of the shield plate betweenthe head vhannels. 2)When the mirrer tape SCC – 1659(2line tape) is travelling in the REV.direction, adjust the screws C and D so that the line B is located at the center of the shield plate between the head channels. 2. Head azimuth 1)Adjust the screw B so that the output level becomes maximum and the phase difference becomes minimum when VTT703 is travelling in the FWD. direction. 2)Adjust the screw C so that the output level become maximum the phase difarence become minimum when VTT703 is travelling in the REV. direction. 3)By repeating the avove adjustments steps 1) and 2),make sure that the output level and phase difference as specifed respectively . 4)There is no need to preform bonding after adjustment.	 The head is at low position during FWD.  The head is at high position during REV. Output level: Maximum Output level: Maximum	screw – D  screw – C
2. Tape speed and wow flutter confirmantion	Test tape:VTT712 (3kHz)	1.Check to see if the reading of the F.counter /wow flutter meter is within 3015~3045 (FWD/REV), and less than 0.35%(JIS RMS) . 2. In case of out of specefication,adjust the motor with a built – in volume resistor.	Tape speed: 3015 ~3045Hz Wow flutter:less than0.35%	Built – in volume resistor
3.Playback frequency response confirmation	Test tape:VTT724 (1kHz) VTT736 (125Hz/1kHz/8kHz)	1. Play test tape VTT724, the set the volume position at 2V 2. Play test tape VTT736 confirm 1kHz/8kHz:0 ± 3dB 1kHz/125Hz:0 ± 3dB 3. When 8 kHz is out of specification, it will be nesessary to read just the azimuth	Speaker out 1kHz/125Hz :0 ± 3dB 1kHz/8kHz :0 ± 3dB	

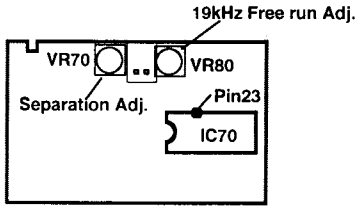
Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
4.Maximum output power confirmation	Test tape :VTT721 (1kHz) volume:maxiimum BASS/TRE:center	1. Confirm both the front and rea output be more than 4.9 V (6 W). 2. Confirm that consumption current at above condition to be iess than 5A. 3. Sound leakage shold not occur at volume minimum. 4. Oscillation should not occur at BASS/TRE at minimum.	Output level:more than 4.9 V(6 W)') Consumptio current :less than 5A	
5.Playback noise	Empty tape	1. Noise level to be less than 3 mV at volume minimum. 2. Current consumption to be less 0.7A at above condition.	Less than 3 mV Less than 0.7A	
6.BASS/ TREBLE checking	FM 97.9 MHz, 66 dB μ , 22.5kHz dev. with center click, preemphasis 75 μ s.	Confirm that both BASS/TRE are within a variable range from $\pm$ 7 dB to 13 dB.	100 Hz : $\pm$ 7 dB ~13 dB (variable) 10 kHz : $\pm$ 7 dB ~13 dB (variable)	

■ Tuner Section

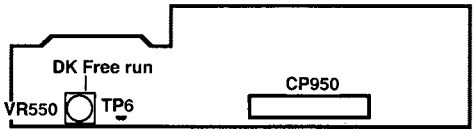
◆ Main board



◆ Headamp/MPX board



◆ SK/DK board (G/GE only)



■ Tuner Section Adjustment

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
1. MW voltage adjustment	Test point: TP3 Measuring: MW 522 kHz MW 1404kHz	1. Adjust T55 so that the TP3 DC voltage level becomes 1.2 V when 522 kHz is indicated. 2. Adjust TC1 so that the TP3 DC voltage level becomes 6.6 V when 1404 kHz is indicated. 3. Repeat the Steps 1 and 2 until the voltage levels becomes as specified above.	1.2 ± 0.02 V 6.6 ± 0.1 V	L2 TC1
2. MW Sensitivity adjustment	MW 603 kHz weak signal MW 1404 kHz weak signal	1. Adjust (the output with) T1 → T2 → T4 so that the output becomes maximum under the 603 kHz receiving conditions. 2. Adjust (the output with) TC1 so that the output becomes maximum under the 1404 kHz receiving conditions. 3. Repeat the Steps 1 and 2. 4. Confirm the MW voltage. After the voltage has been confirmed, make sure that the TP3 output at 1620 kHz is 8.5 V or less.	Output maximum Less than 8.5 V	In sequence T1, T2 and T4 repeatedly until O/P is maximum TC1

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
3. LW voltage adjustment	Test point: TP3 Measuring: LW 144 kHz LW 281kHz	1. Adjust L30 so that the TP3 DC voltage level becomes 1.2 V when 144 kHz is indicated. 2. Adjust TC30 so that the TP3 DC voltage level becomes 5 V when 281 kHz is indicated. 3. Repeat the Steps 1 and 2 until the voltage levels becomes as specified above.	1.2 ± 0.05 V 5.0 ± 0.1 V	L30 TC30
4. LW Sensitivity adjustment (I)	LW 153 kHz weak signal LW 281 kHz weak signal	1. Adjust (the output with) T30 → T31 so that the output becomes maximum under the 153 kHz receiving conditions. 2. Adjust (the output with) TC30 so that the output becomes maximum under the 281 kHz receiving conditions. 3. Repeat the Steps 1 and 2.	Output maximum	In sequence T30 and T31 repeatedly until O/P is maximum TC30
LW Sensitivity adjustment (II)	LW 153 kHz weak signal LW 281 kHz weak signal	1. Adjust (the output with) L30 so that the output becomes maximum under the 153 kHz receiving conditions. 2. Adjust (the output with) TC30 so that the output becomes maximum under the 281 kHz receiving conditions. 3. Repeat the Steps 1 and 2. 4. Confirm the AM voltages. After the voltage has been confirmed, make sure that the TP3 output 281 kHz is 8.0 V or less.	Output maximum Less than 8.0 V	In sequence L30 repeatedly until O/P is maximum TC30
5. Radio/Tape level difference	AM 999 kHz, 1 kHz, 30% modulation, 74 dBμ	Against VTT724, the output difference level to be within −3 ±3 dB	Within −3 ±3 dB	
6. FM 0 V adjustment	Test point: TP1 FM 97.9 MHz, 66 dBμV non modulation	Adjust L50 so that the TP1 DC voltage level becomes 0 V when 97.9 MHz is indicated.	0 ± 0.01 V	L50
7. Adjustment of inter-station muting	FM 97.9 MHz output level 66 dBμV → −19 dBμV speaker output	1. When the SSG output has been changed to −19 dBμV (conditions without any input signal) from 66 dBμV. 2. Adjust VR50 so that difference level at speaker out be come 20 dB.	Difference Level 20±1 dB	VR50
8. Adjust of 19 kHz Free Run	FM 97.9 MHz Non modulation 66 dBμV TP2 (C792 side)	1. Connect 180 kΩ between the Pin 23 of IC70 and earth as indicated in the diagram. 2. After connecting the high impedance frequency counter to the test point terminal TP5, adjust the frequency with VR80 so that the counter reads 19 kHz ±50 Hz	19 ±0.05 kHz	VR80

Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
9. FM stereo separation	97.9MHz, 1 kHz, 67.5 kHz dev, Pilot 7.5 kHz, 66 dBμV speaker output	1. While applying a modulation output to a single channel, adjust VR70 so that the leak of speaker output to another channel is minimized. 2. Separation to be more than 22 dB. 3. The left/right difference to be within 3 dB.	more than 22 dB	VR70
10. FM S/N ratio	97.9 MHz, 66 dBμ	Output difference level between modulation ON/OFF to be more than 53 dB.	More than 53 dB	
11. Clock frequency check	Test point: 9 pin of IC701 MW 1620 kHz F Counter	When MW 1620 kHz is indicated, confirm that the 9 pin terminal frequency of IC701 is with 2070 ± 0.060 kHz. 1. Clock adjustment to be done after aligning tuner (To get higher accuracy). 2. High impedance can to be use.	2070 ± 0.060 kHz	TC701
12. Adjustment of DK Free Run	FM 97.9 MHz Non modulation 66 dBμV TP: TP6 mark on SK/DK board	Under the SK/DK signal receiving conditions, adjust the test point frequency to 125 Hz with VR550.	125 ± 1 Hz	VR550

4 Wiring Connections

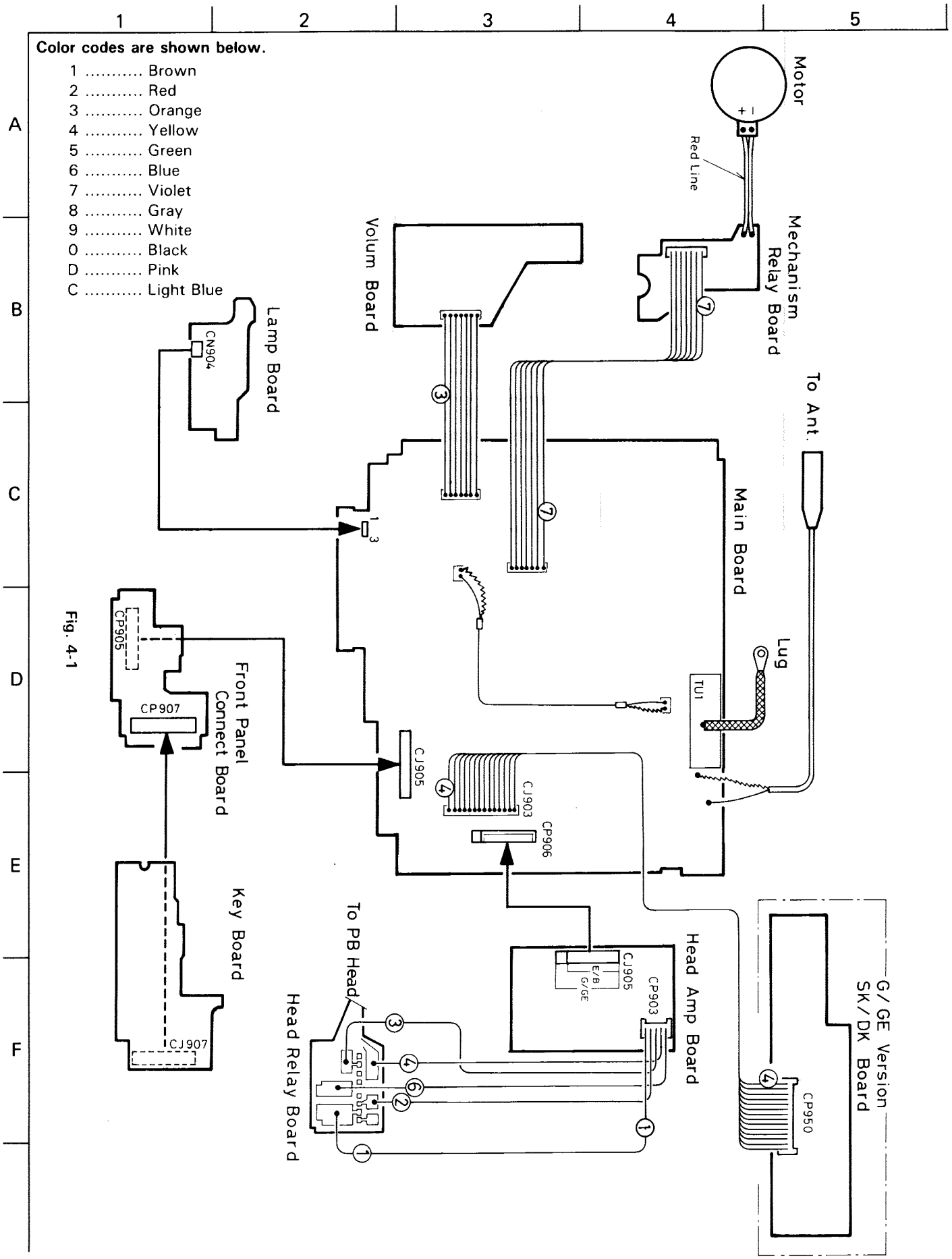


Fig. 4-1

5 Block Diagram

■ Integrated Circuit

◆ IC70 AN7465K NOISE. C & MPX

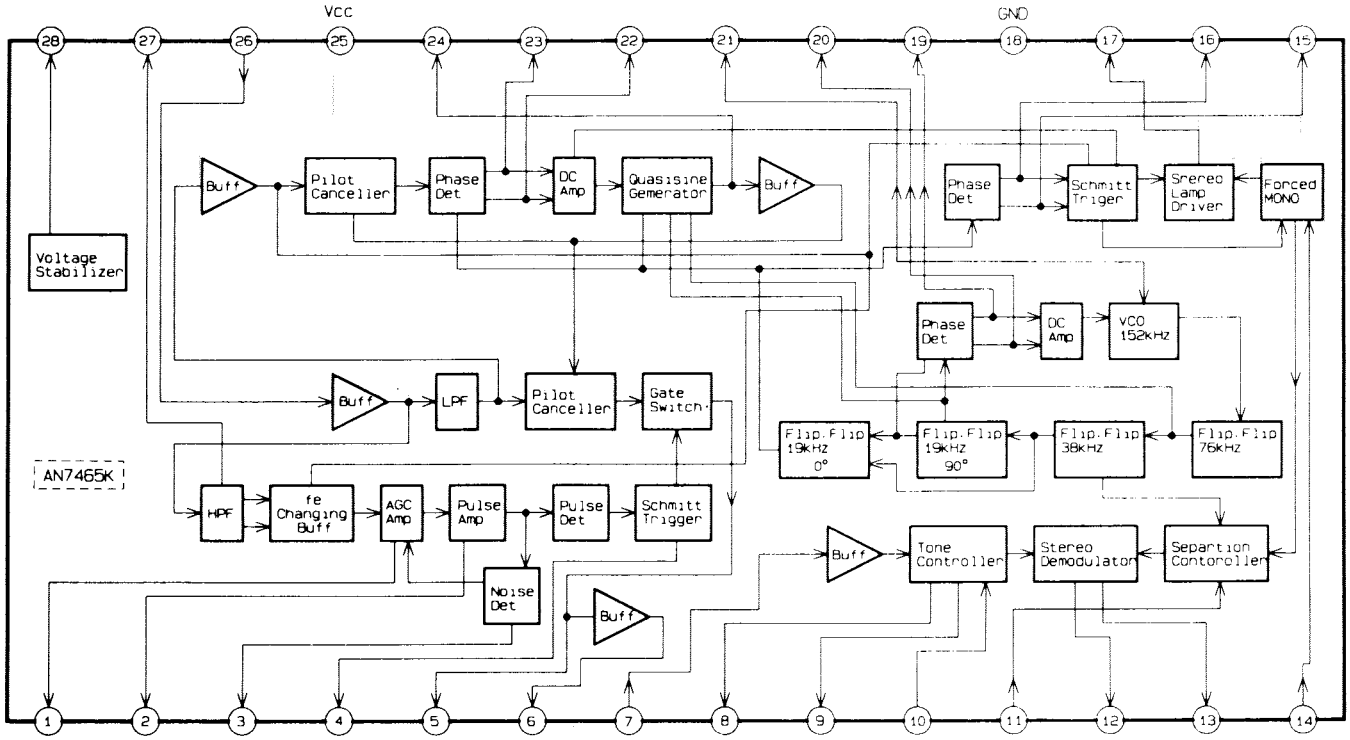


Fig. 5-1

◆ IC1 LA1140 FM IF

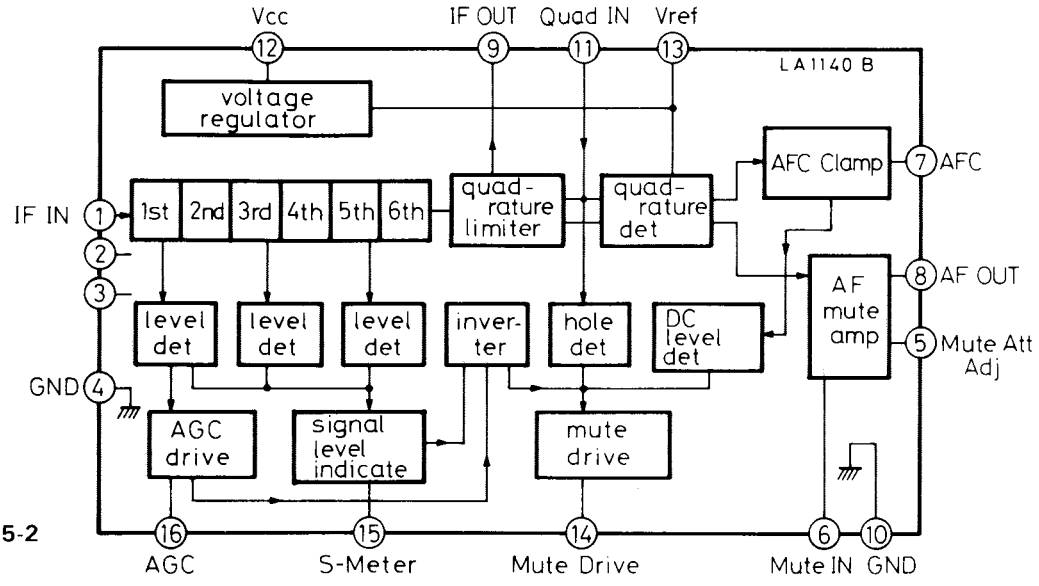


Fig. 5-2

◆ IC1 LA1135 AM TUNER

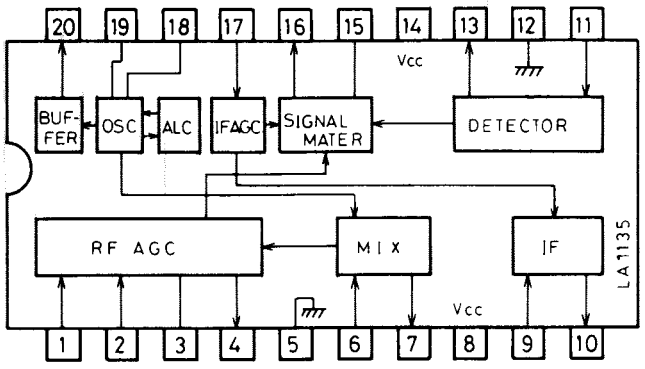


Fig. 5-3

◆ **IC510 LA2220 SK** (G/GE only)

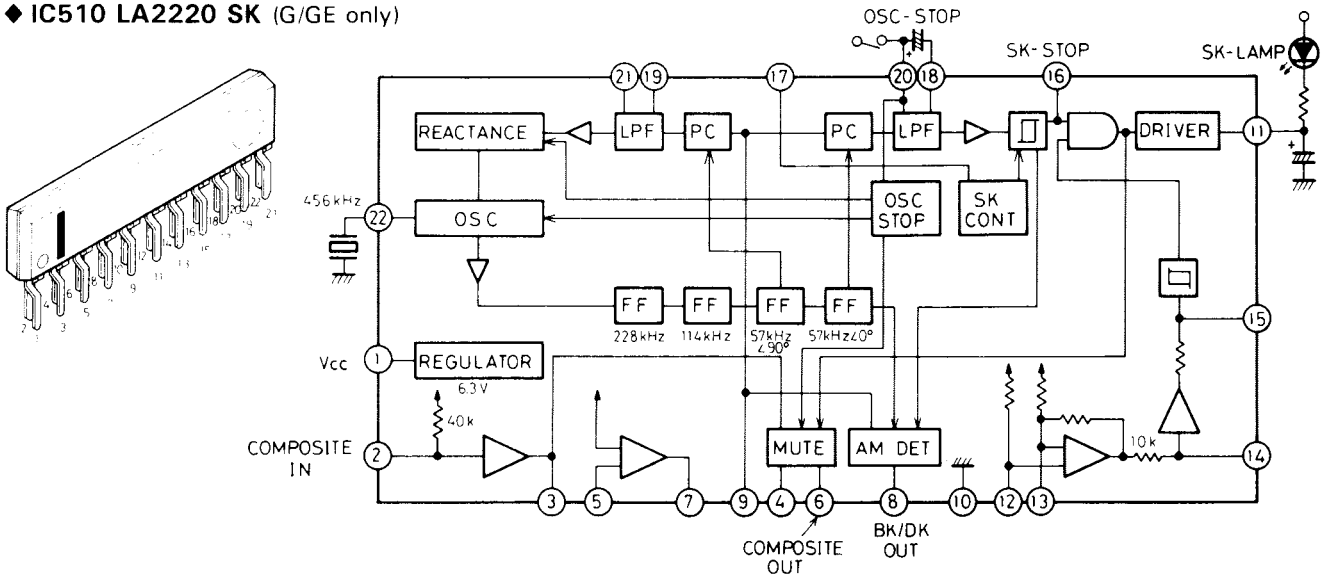


Fig. 5-4

◆ **IC550 LA2211 DK** (G/GE only)

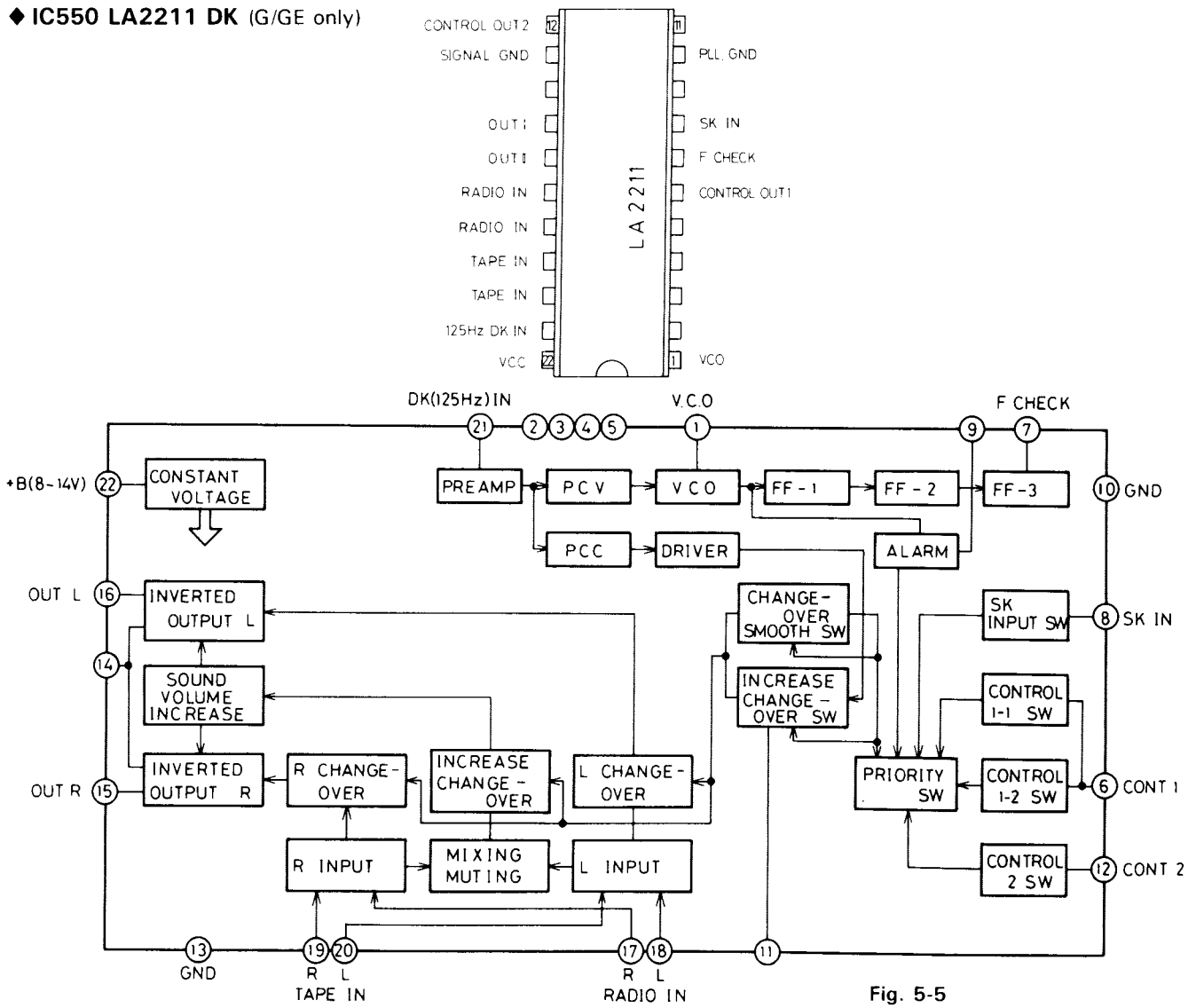


Fig. 5-5

■ Circuit Block Diagram

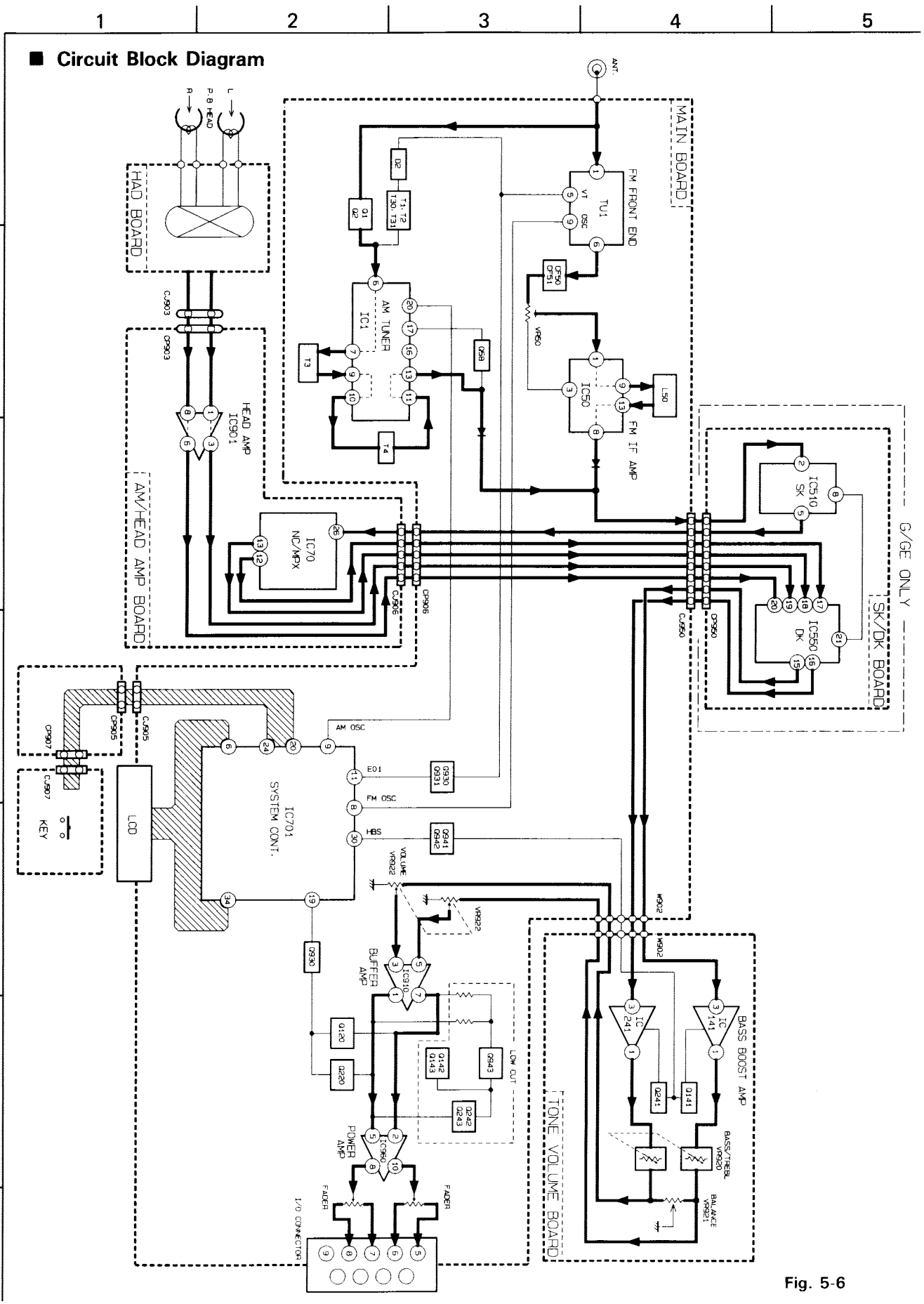
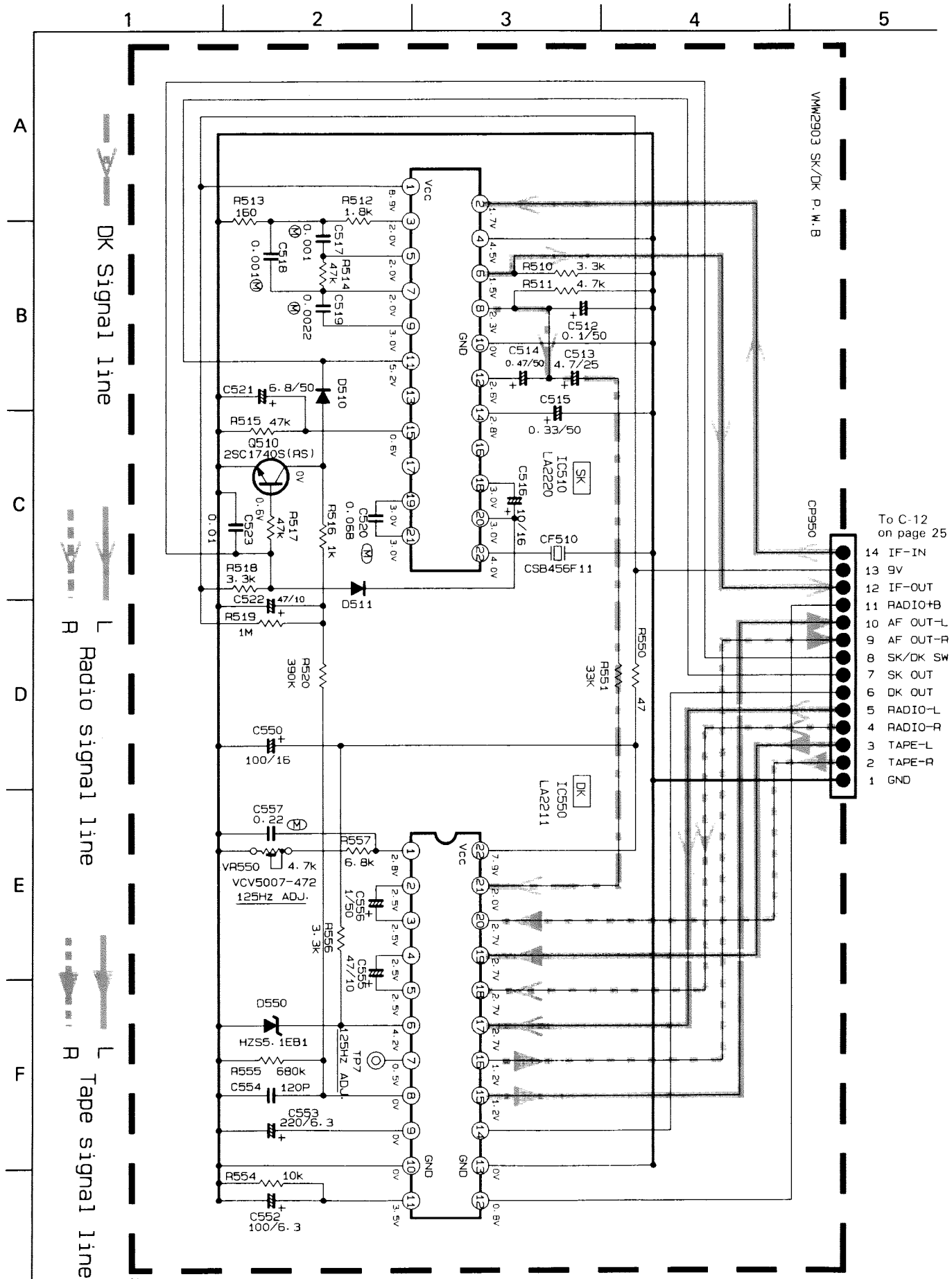


Fig. 5-6

6 Standard Schematic Diagram

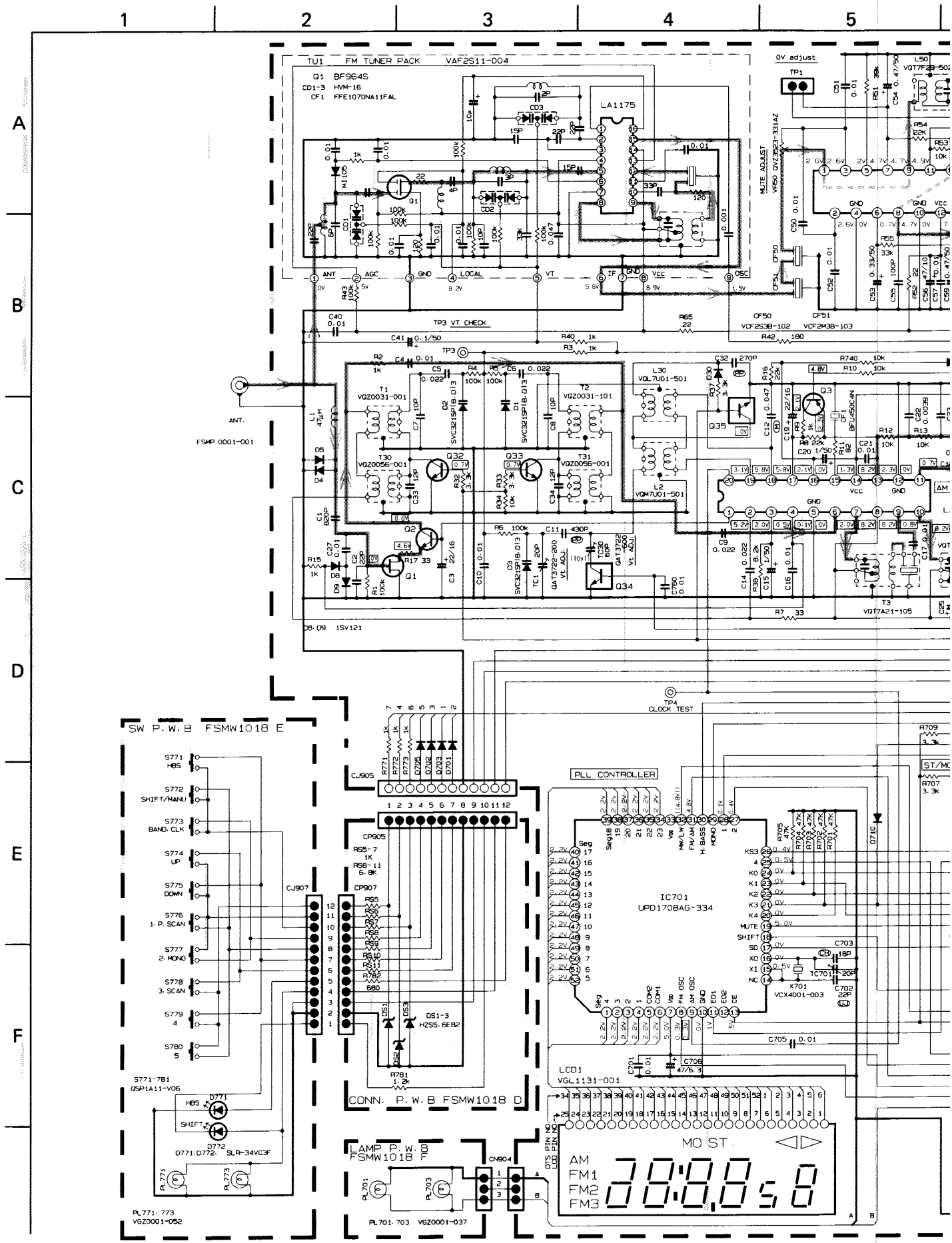
■ SK/DK Circuit (G/GE version)



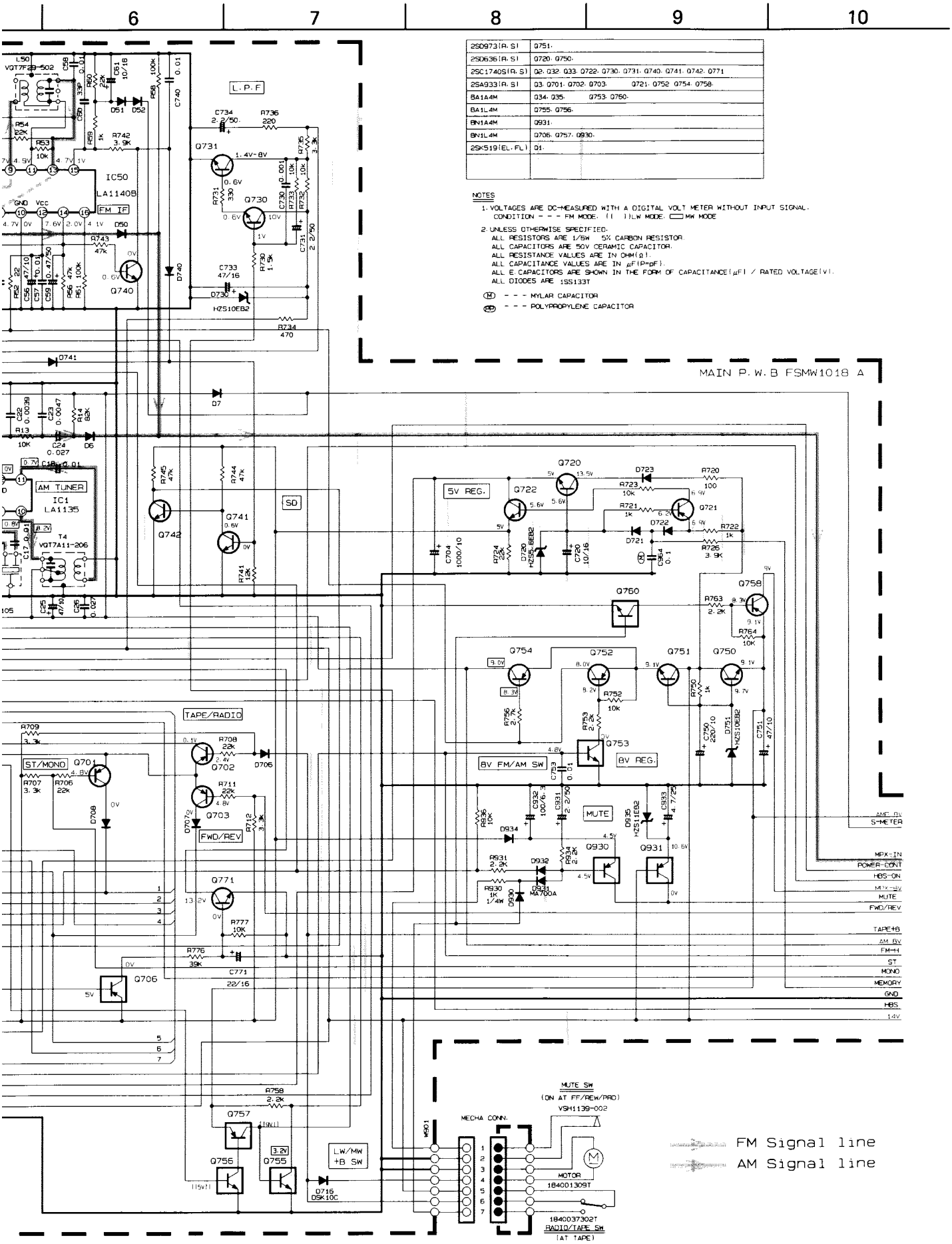
Note
VDH3428-003SX

Fig. 6-1

■ Amplifier Circuit (1/2) (B/E/GI version)



Note
FSDH3004002RV



2SD973(A.S)	Q751.
2SD636(A.S)	Q720. Q750.
2SC1740S(A.S)	Q2. Q32. Q33. Q722. Q730. Q731. Q740. Q741. Q742. Q771
2SA933(A.S)	Q3. Q701. Q702. Q703. Q721. Q752. Q754. Q758.
BA1A4M	Q34. Q35. Q753. Q760.
BA1L4M	Q755. Q756.
BN1A4M	Q931.
BN1L4M	Q706. Q757. Q930.
2SK519(EL.FL)	Q1.

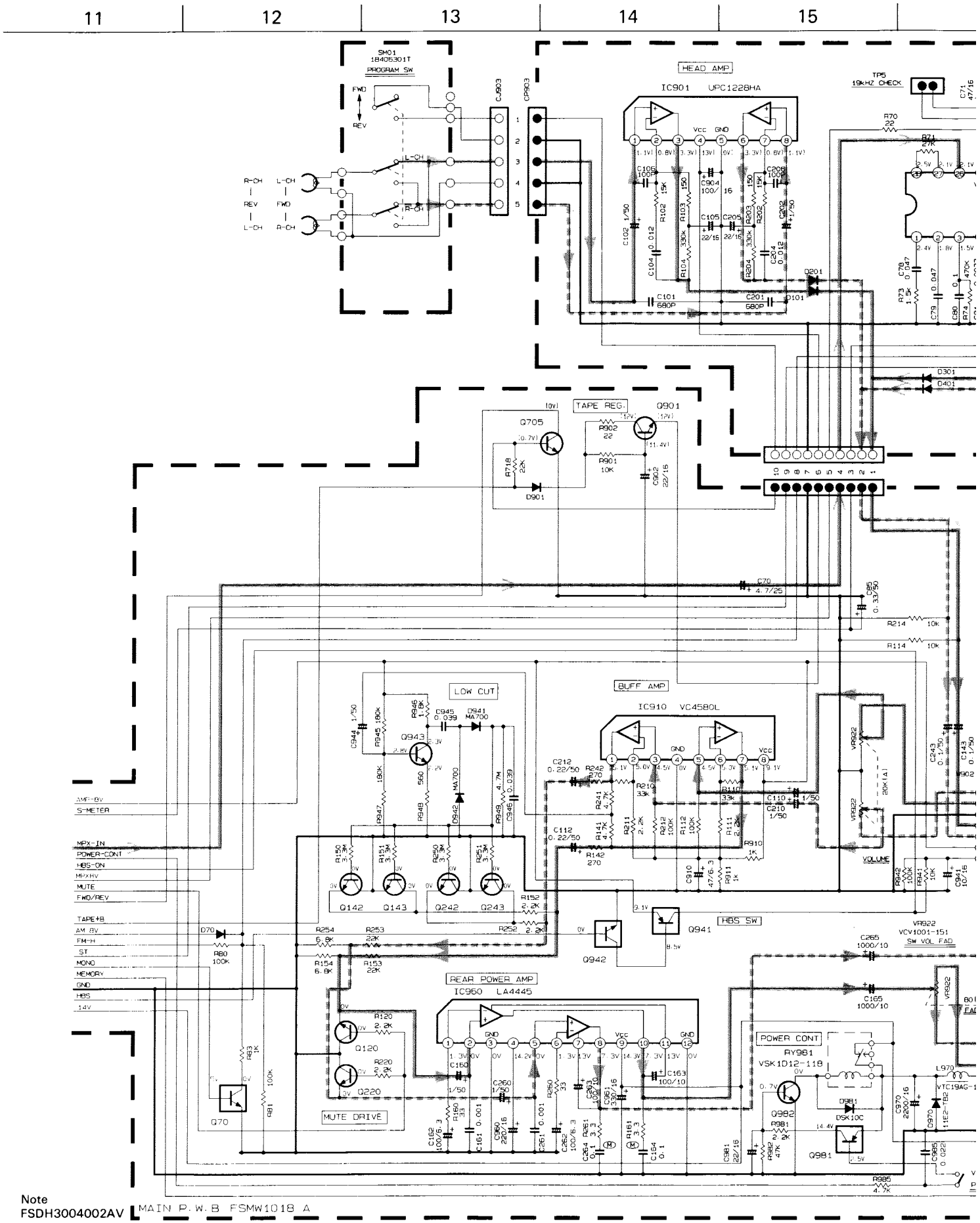
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION - - - FM MODE. (( )) LW MODE. [ ] MW MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).
   ALL DIODES ARE 1SS133T

(M) - - - MYLAR CAPACITOR
(PP) - - - POLYPROPYLENE CAPACITOR

Fig. 6-2

■ Amplifier Circuit (2/2) (B/E/GI version)



Note
FSDH3004002AV

MAIN P.W.B FSMW1018 A

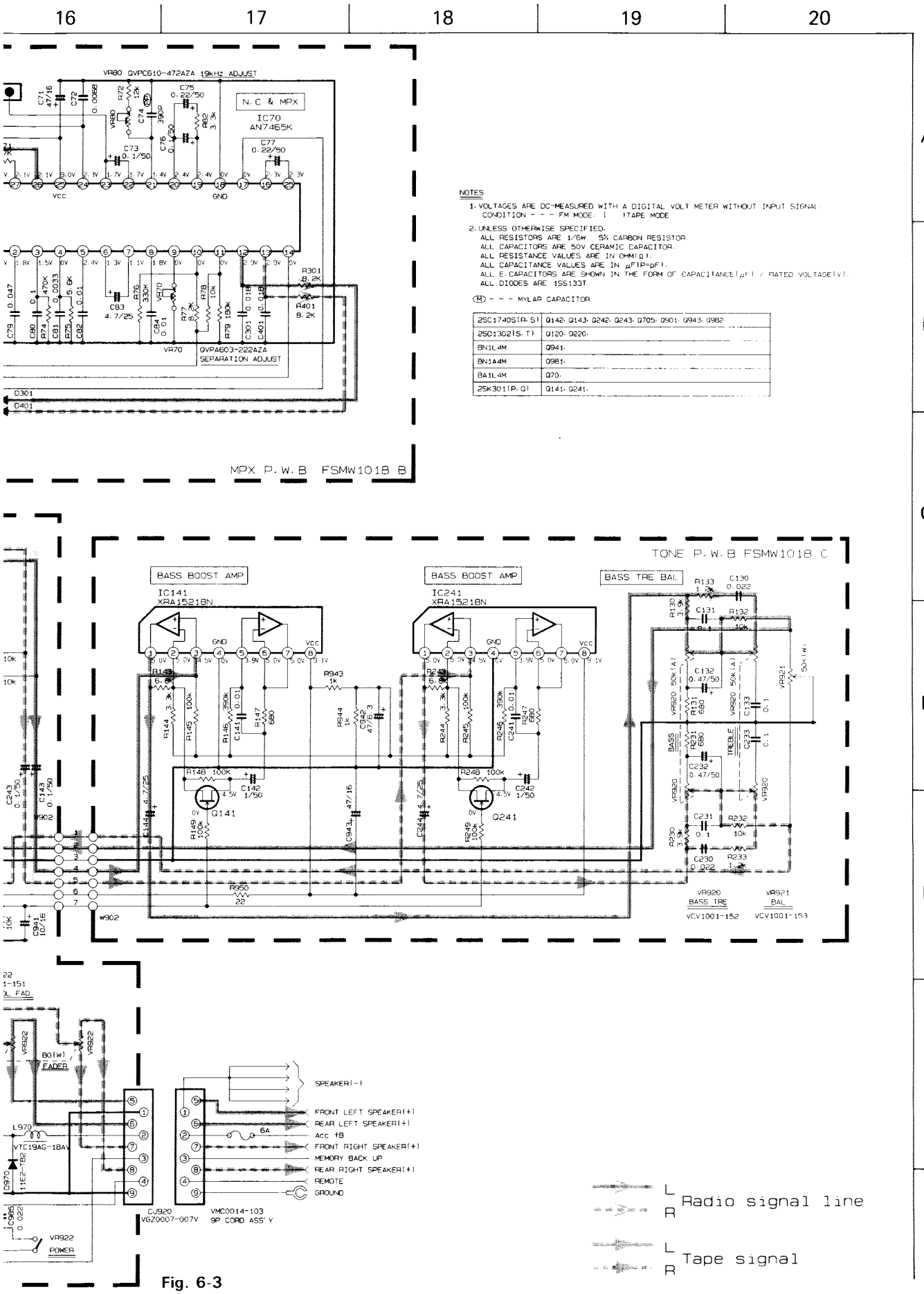
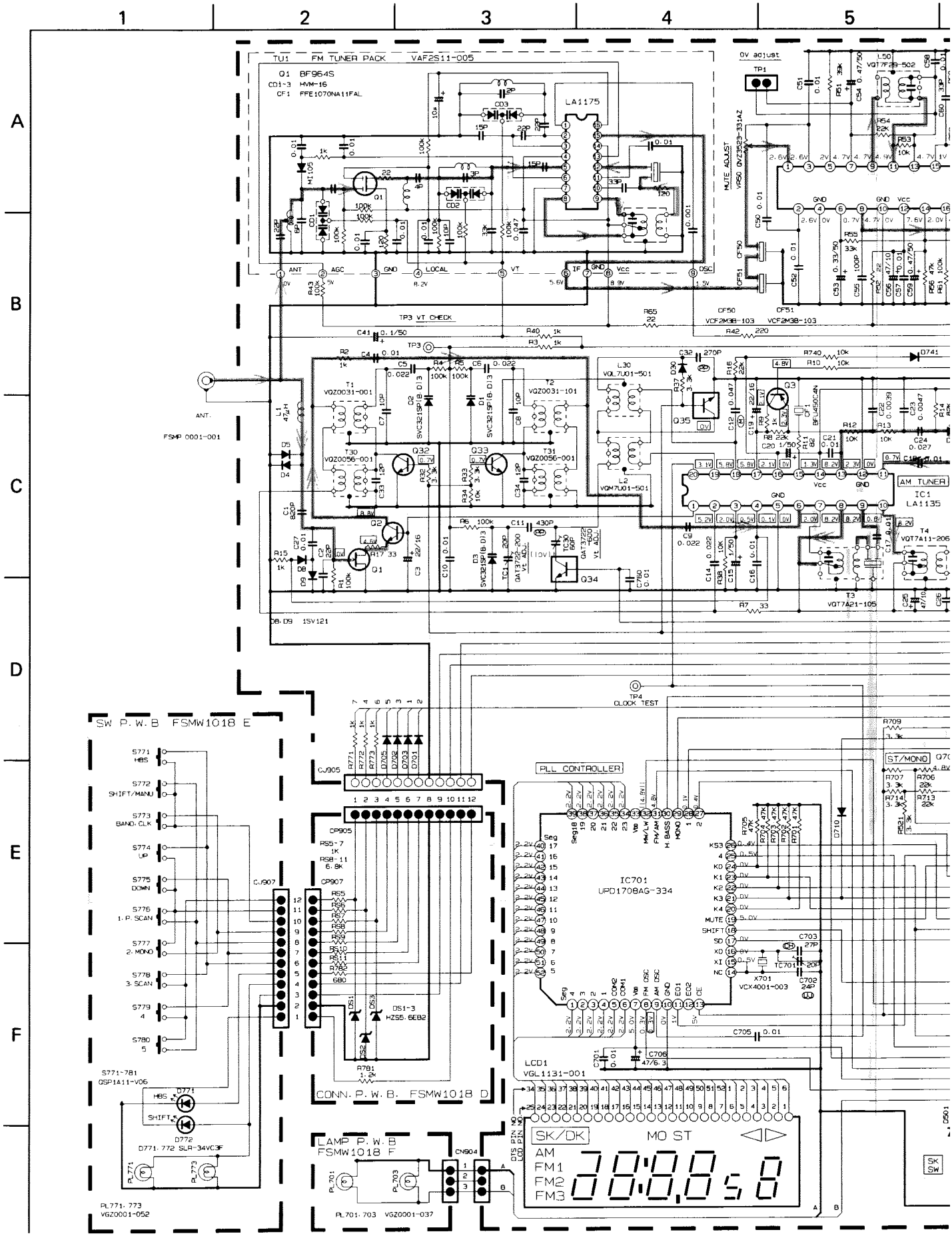
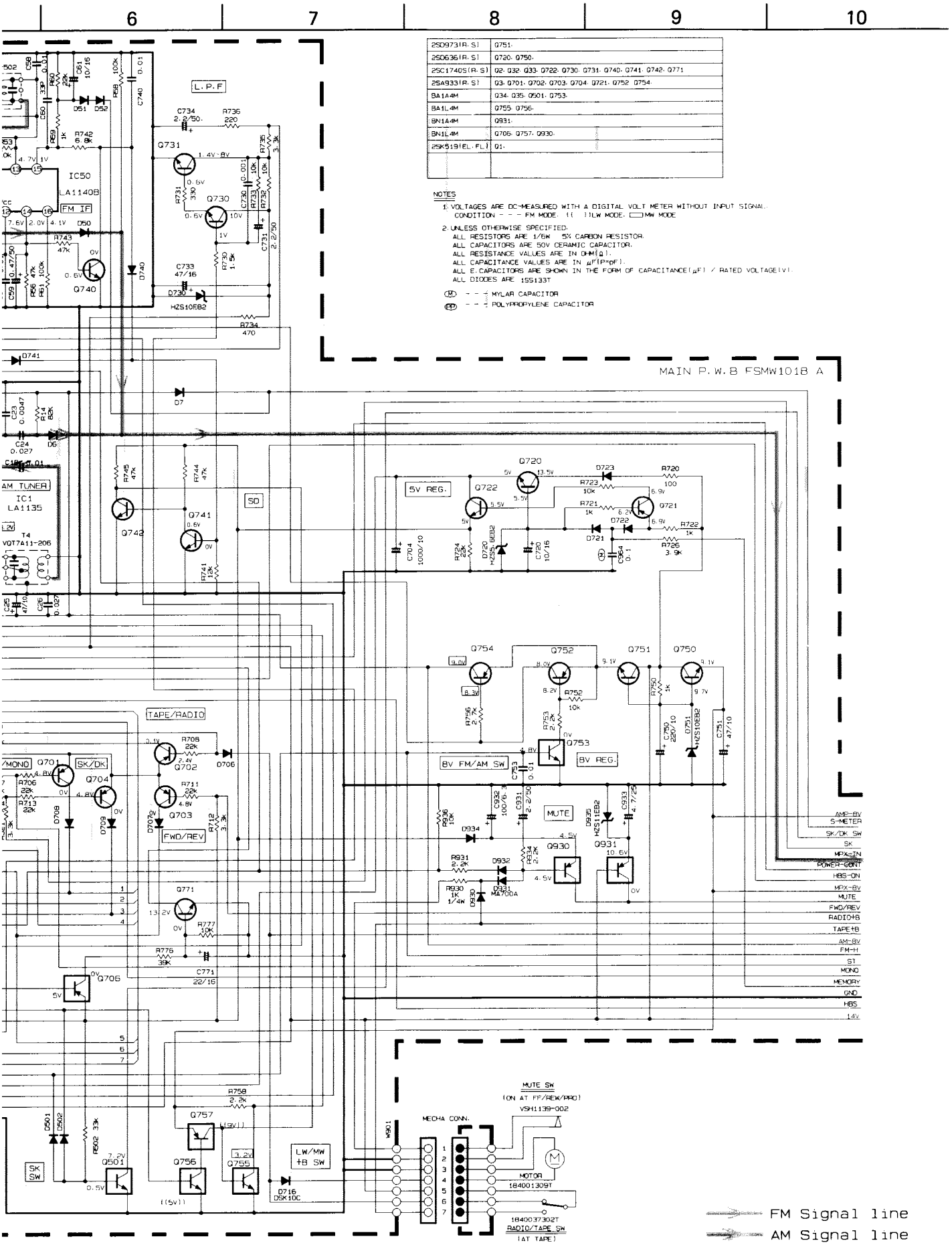

16
17
18
19
20
A
B
C
D
E
F
VR80 QVPC610-472AZA 19kHz ADJUST
N. C & MPX
IC70
AN7465K
Vcc
GND
VR70
QVPA603-222AZA
SEPARATION ADJUST
D301
D401
MPX P. W. B FSMW1018 B
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
CONDITION - - - FM MODE: [ ] TAPE MODE
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).
ALL DIODES ARE 1SS133T
(M) - - - MYLAR CAPACITOR
2SC1740S(R-S) Q142, Q143, Q242, Q243, Q705, Q901, Q943, Q982.
2SD1302(S-T) Q120, Q220.
BN1L4M Q941.
BN1A4M Q981.
BA1L4M Q70.
2SK301(P-Q) Q141, Q241.
TONE P. W. B FSMW1018 C
BASS BOOST AMP
IC141
XRA15218N
BASS BOOST AMP
IC241
XRA15218N
BASS TRE BAL
GND
Vcc
Q141
Q241
W902
VR920
BASS TRE
VCV1001-152
VR921
BAL
VCV1001-153
BASS
TREBLE
VR922
BALANCE
FADER
L970
VTC19AG-18AV
D970
VR922
POWER
CJ920
VGZ0007-007V
VMC0014-103
9P CORD ASS'Y
SPEAKER(-)
FRONT LEFT SPEAKER(+)
REAR LEFT SPEAKER(+)
Acc +B
6A
FRONT RIGHT SPEAKER(+)
MEMORY BACK UP
REAR RIGHT SPEAKER(+)
REMOTE
GROUND
L
R
Radio signal line
L
R
Tape signal

Fig. 6-3

■ Amplifier Circuit (1/2) (G/GE version)



Note
FSDH3004003RV



2SD973(R.S)	Q751.
2SD636(R.S)	Q720. Q750.
2SC1740S(R.S)	Q2. Q32. Q33. Q722. Q730. Q731. Q740. Q741. Q742. Q771
2SA933(R.S)	Q3. Q701. Q702. Q703. Q704. Q721. Q752. Q754.
BA1A4M	Q34. Q35. Q501. Q753.
BA1L4M	Q755. Q756.
BN1A4M	Q931.
BN1L4M	Q706. Q757. Q930.
2SK519(EL.FL)	Q1.

NOTES

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2. UNLESS OTHERWISE SPECIFIED.
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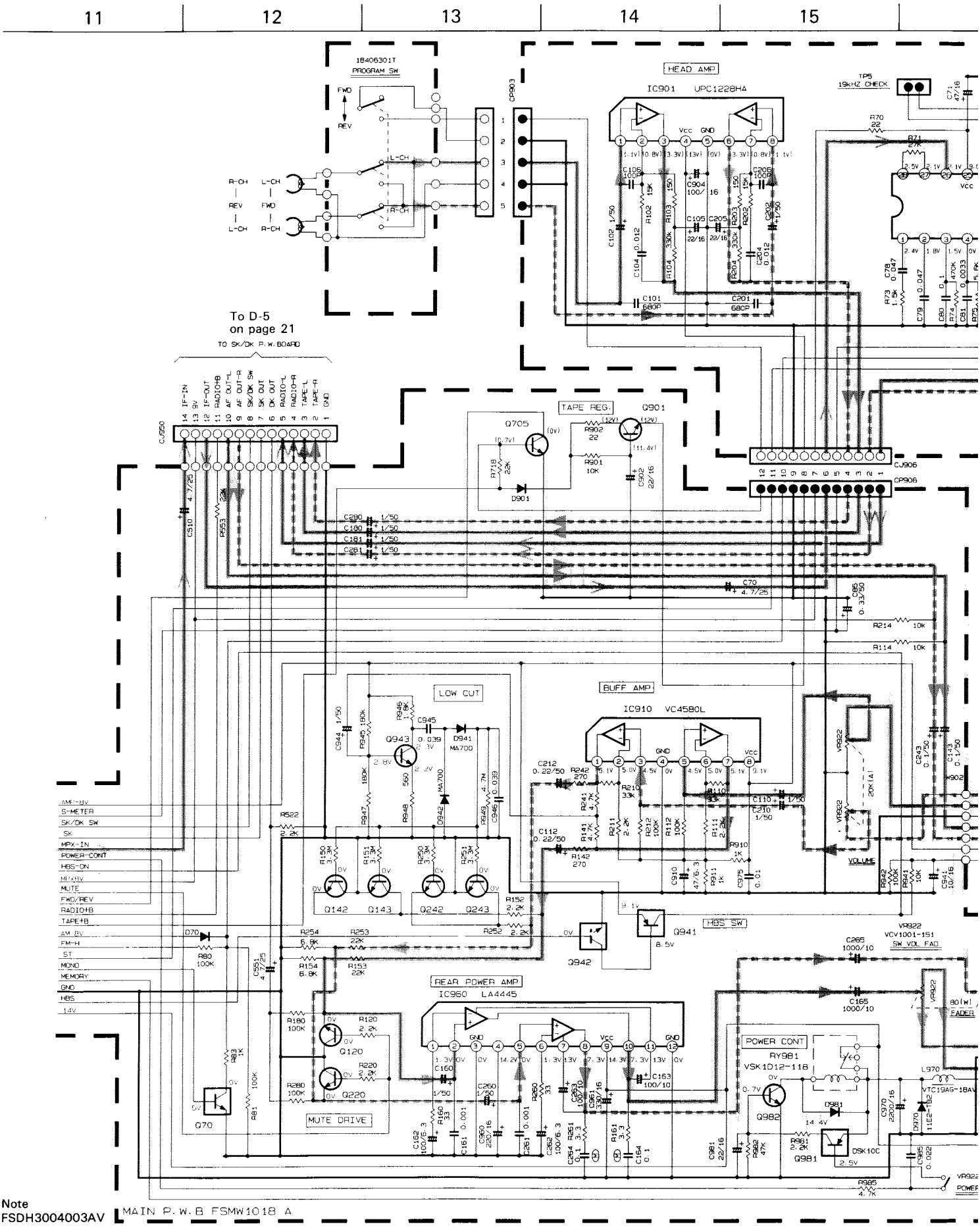
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).
   ALL DIODES ARE 1SS133T

(M) - - - MYLAR CAPACITOR
(PP) - - - POLYPROPYLENE CAPACITOR

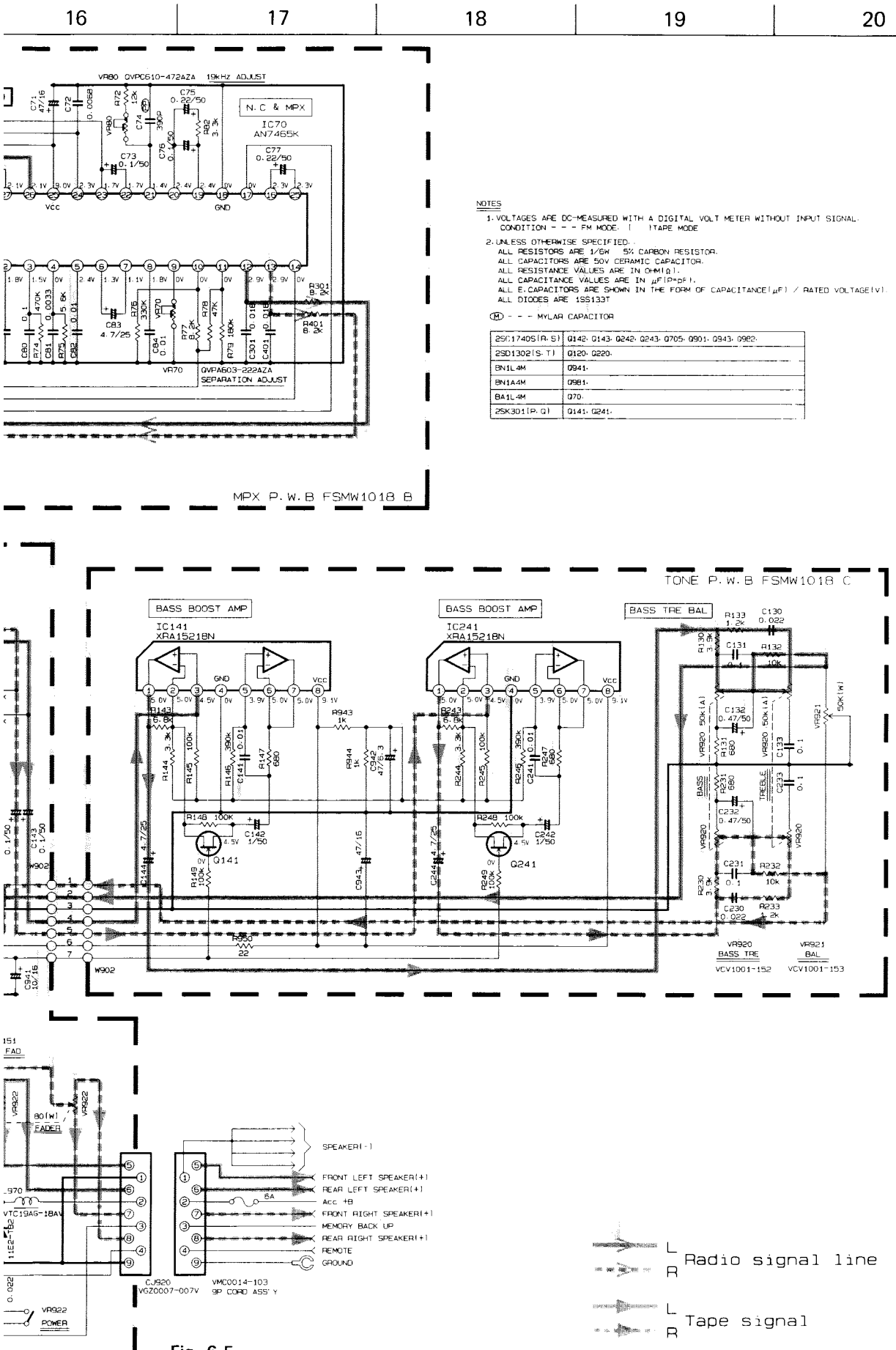
FM Signal line
AM Signal line

Fig. 6-4

■ Amplifier Circuit (2/2) (G/GE version)



Note
FSDH3004003AV



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.
   CONDITION - - - FM MODE. [ ]TAPE MODE
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF) / RATED VOLTAGE(V).
   ALL DIODES ARE 1SS133T

(M) - - - MYLAR CAPACITOR

2SC1740S(R.S)	Q142. Q143. Q242. Q243. Q705. Q901. Q943. Q982.
2SD1302(S.T)	Q120. Q220.
BN1L4M	Q941.
BN1A4M	Q981.
BA1L4M	Q70.
2SK301(P.G)	Q141. Q241.

Fig. 6-5

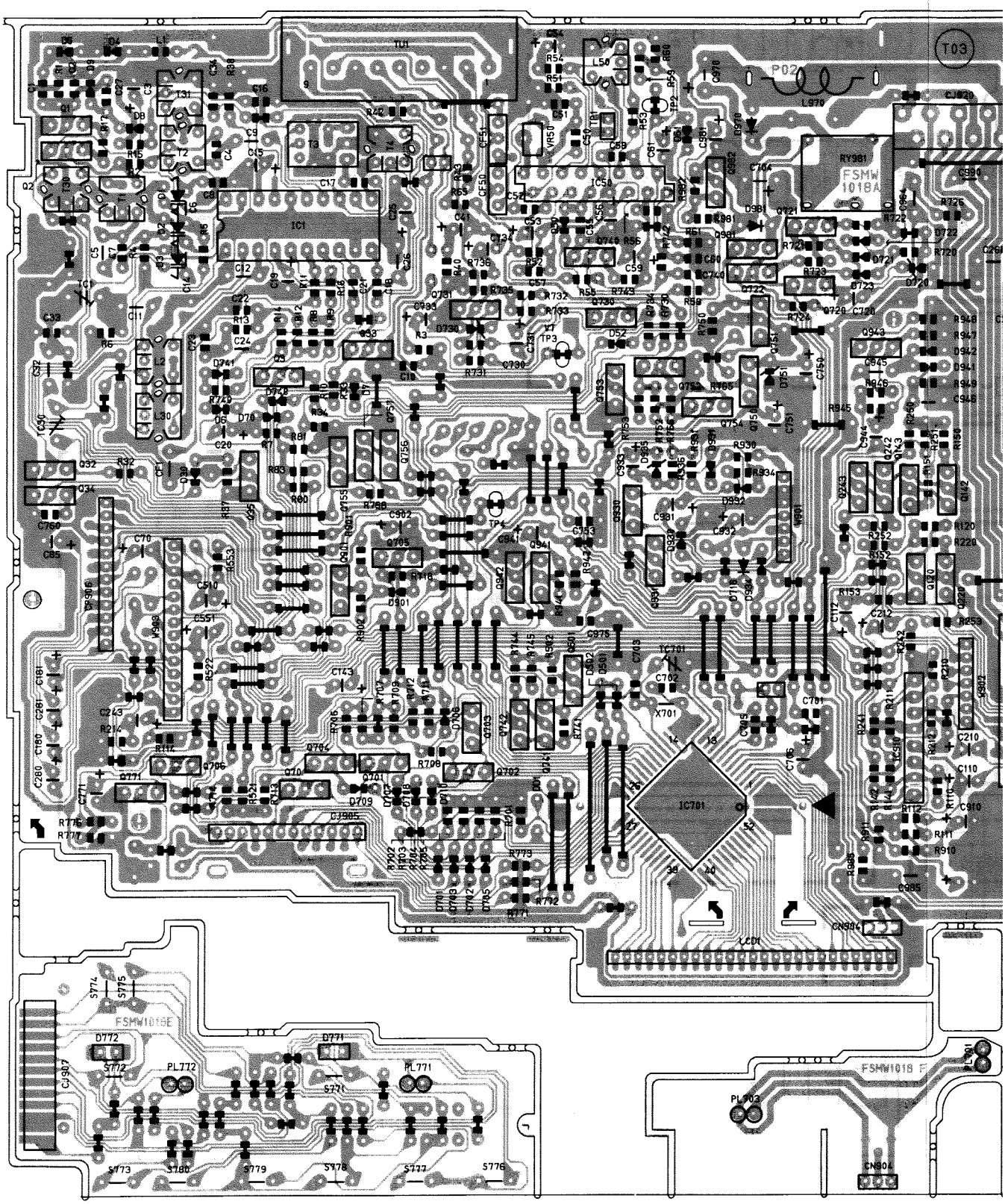
7 Location of P.C. Board Parts and Parts List

1 2 3 4 5

A B C D E F

■ G/GE version

◆ Main board



◆ Key Switch board

◆ Lamp bard

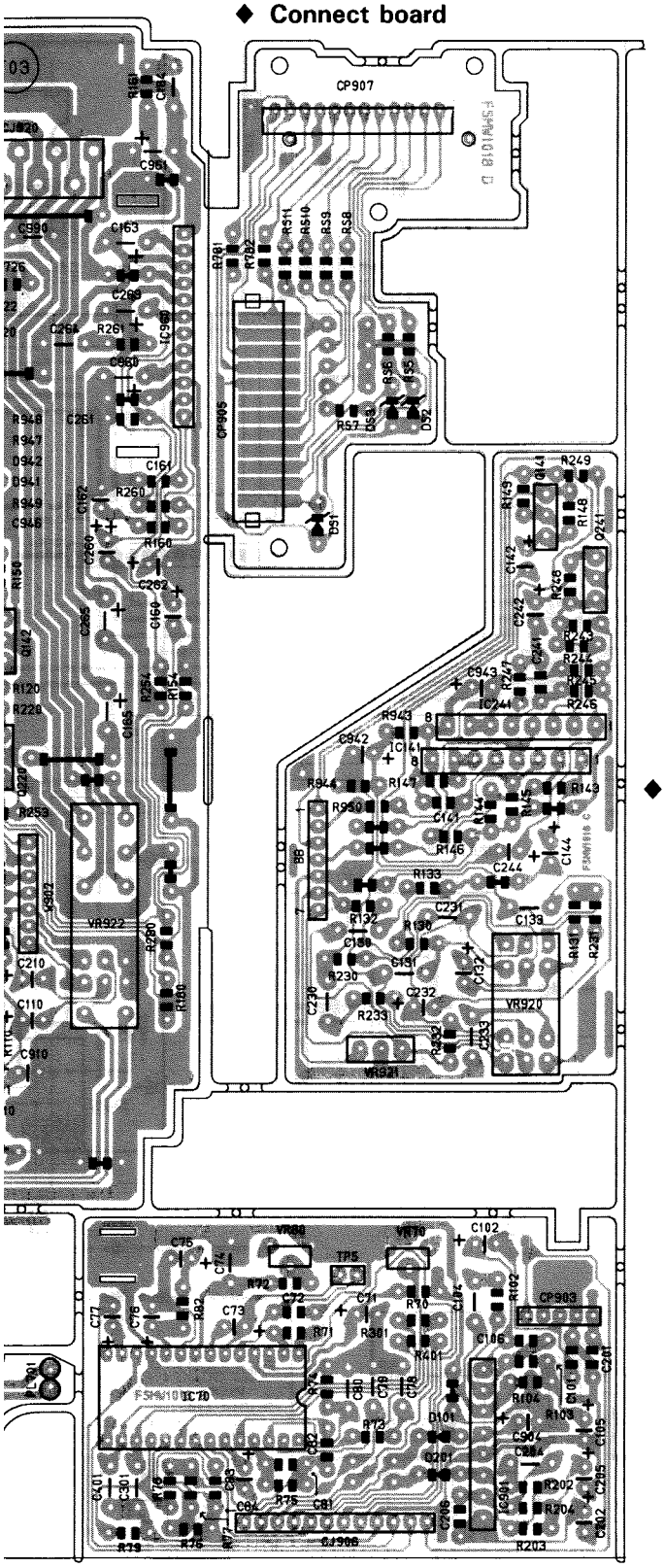
Note
FSMW1018

Fig. 7-1

t

6 7 8 9 10

◆ Connect board



◆ Volume board

◆ Head amp/MPX board

◆ SK/DK board (G/GE only)

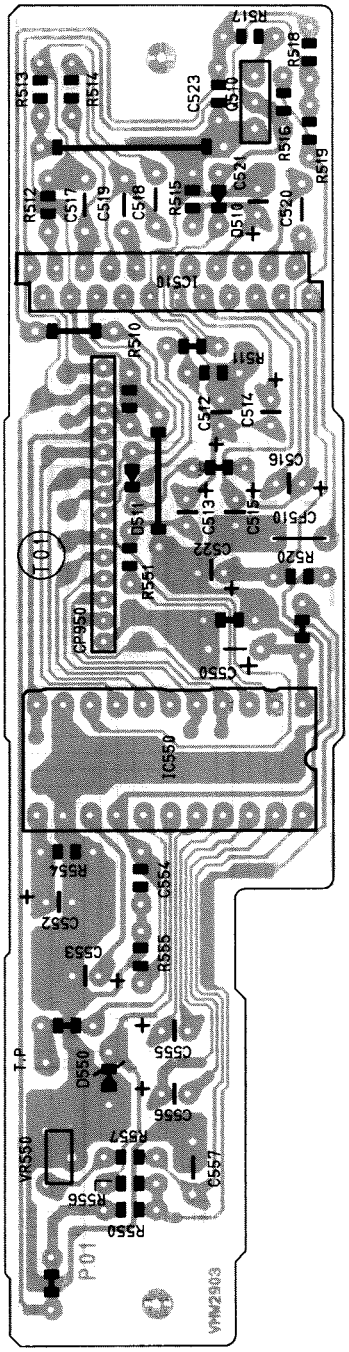
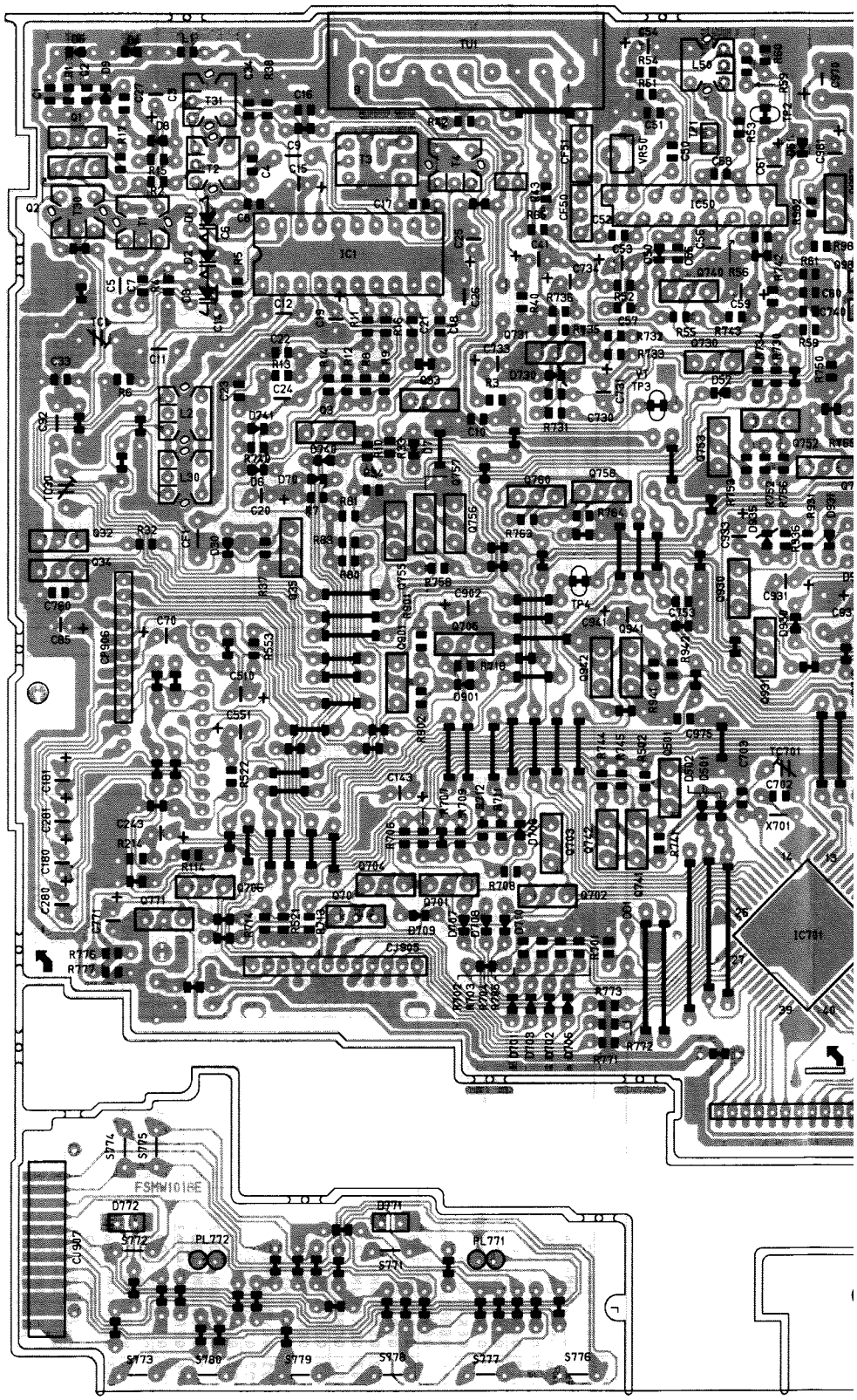


Fig. 7-2

■ **B/E/GI version**

◆ **Main board**

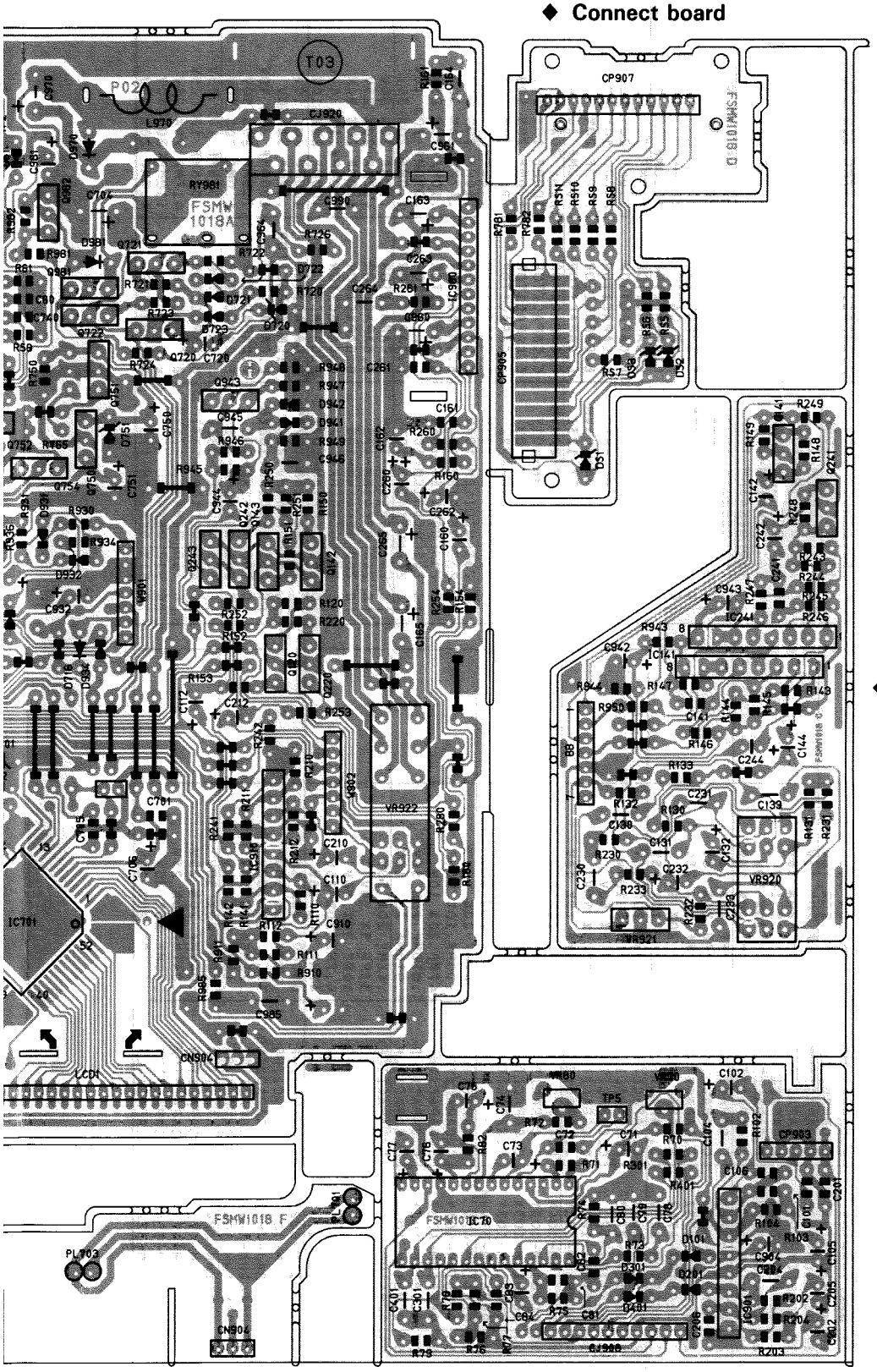


◆ **Key Switch board**

Fig. 7-3

6 | 7 | 8 | 9 | 10

◆ Connect board



◆ Volume board

◆ Lamp bard

◆ Head amp/MPX board

• Main P.C. Board Parts List

BLOCK NO. 01

△	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 1	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 2	QCS11HJ-220	C.CAPACITOR	22PF 5% 50V	
	C 3	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 4	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 5	QCC11EM-223V	C.CAPACITOR	.022MF 10% 25V	
	C 6	QCC11EM-223V	C.CAPACITOR	.022MF 10% 25V	
	C 7	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V	
	C 8	QCS11HJ-100	C.CAPACITOR	10PF 5% 50V	
	C 9	QCC11EM-223V	C.CAPACITOR	.022MF 10% 25V	
	C 10	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 11	QFP42AJ-431	PP.CAPACITOR	430PF 5% 100V	
	C 12	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	C 14	QCC11EM-223V	C.CAPACITOR	.022MF 10% 25V	
	C 15	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 16	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 17	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 18	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 19	QER41CM-226VM	E.CAPACITOR	22MF 20% 16V	
	C 20	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 21	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 22	QCXB1CM-392Y	C.CAPACITOR	3900PF 20% 16V	
	C 23	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
	C 24	QCC11EK-273Z	C.CAPACITOR	.027MF 10% 25V	
	C 25	QERF1AM-476Z	E.CAPACITOR	47MF 20% 10V	
	C 26	QCC11EM-223V	C.CAPACITOR	.022MF 10% 25V	
	C 27	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 32	QFP32AJ-271Z	PP.CAPACITOR	270PF 5% 100V	
	C 33	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 34	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
	C 40	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 41	QER41HM-104M	E.CAPACITOR	.10MF 20% 50V	
	C 50	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 51	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 52	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 53	QER41HM-334VM	E.CAPACITOR	.33MF 20% 50V	
	C 54	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C 55	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 56	QERF1AM-476Z	E.CAPACITOR	47MF 20% 10V	
	C 57	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 58	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 59	QERF1HM-474ZM	E.CAPACITOR	.47MF 20% 50V	
	C 60	QCS11HJ-330	C.CAPACITOR	33PF 5% 50V	
	C 61	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 70	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 71	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 72	QCXB1CM-682Y	C.CAPACITOR	6800PF 20% 16V	
	C 73	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 74	QFP32AJ-391Z	PP.CAPACITOR	390PF 5% 100V	
	C 75	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
	C 76	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	C 77	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
	C 78	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 79	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 80	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 81	QCXB1CM-332Y	C.CAPACITOR	3300PF 20% 16V	

BLOCK NO. 01

△	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 82	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 83	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 84	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 85	QEK41HM-334	E.CAPACITOR	.33MF 20% 50V	
	C 101	QCBB1HK-681Y	C.CAPACITOR	680PF 10% 50V	
	C 102	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 104	QCC11EK-123Z	C.CAPACITOR	.012MF 10% 25V	
	C 105	QER41CM-226VM	E.CAPACITOR	22MF 20% 16V	
	C 106	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 110	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 112	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
	C 130	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
	C 131	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 132	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C 133	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 141	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 142	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 143	QER41HM-104M	E.CAPACITOR	.10MF 20% 50V	
	C 144	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 160	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 161	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 162	QEKF1AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 163	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 164	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 165	QETC1AM-108ZN	E.CAPACITOR	1000MF 20% 10V	
	C 180	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	G,GE
	C 181	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	G,GE
	C 201	QCBB1HK-681Y	C.CAPACITOR	680PF 10% 50V	
	C 202	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 204	QCC11EK-123Z	C.CAPACITOR	.012MF 10% 25V	
	C 205	QER41CM-226VM	E.CAPACITOR	22MF 20% 16V	
	C 206	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 210	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 212	QEK41HM-224	E.CAPACITOR	.22MF 20% 50V	
	C 230	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
	C 231	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 232	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C 233	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 241	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 242	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 243	QER41HM-104M	E.CAPACITOR	.10MF 20% 50V	
	C 244	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 260	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 261	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 262	QEKF1AM-107Z	E.CAPACITOR	100MF 20% 10V	
	C 263	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 264	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	
	C 265	QETC1AM-108ZN	E.CAPACITOR	1000MF 20% 10V	
	C 280	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	G,GE
	C 281	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	G,GE
	C 301	QCC11EK-183Z	C.CAPACITOR	.018MF 10% 25V	
	C 401	QCC11EK-183Z	C.CAPACITOR	.018MF 10% 25V	
	C 510	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	G,GE
	C 512	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	G,GE
	C 513	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	G,GE

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 514	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V	G,GE
	C 515	QEK41HM-334	E.CAPACITOR	.33MF 20% 50V	G,GE
	C 516	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	G,GE
	C 517	QFN41HJ-102	M.CAPACITOR	1000PF 5% 50V	G,GE
	C 518	QFN41HJ-102	M.CAPACITOR	1000PF 5% 50V	G,GE
	C 519	QFN41HJ-222	M.CAPACITOR	2200PF 5% 50V	G,GE
	C 520	QFV71HJ-683ZM	FILM CAPACITOR	.068MF 5% 50V	G,GE
	C 521	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	G,GE
	C 522	QERF1AM-476Z	E.CAPACITOR	47MF 20% 10V	G,GE
	C 523	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	G,GE
	C 550	QETC1CM-107	E.CAPACITOR	100MF 20% 16V	G,GE
	C 551	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	G,GE
	C 552	QEKF1AM-107Z	E.CAPACITOR	100MF 20% 10V	G,GE
	C 553	QEK40JM-227	E.CAPACITOR	220MF 20% 6.3V	G,GE
	C 554	QCBB1HK-121Y	C.CAPACITOR	120PF 10% 50V	G,GE
	C 555	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	G,GE
	C 556	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	G,GE
	C 557	QFV41HJ-224	FILM CAPACITOR	.22MF 5% 50V	G,GE
	C 701	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 702	QCS11HJ-240	C.CAPACITOR	24PF 5% 50V	
	C 703	QCT30CH-150Y	C.CAPACITOR	15PF 5% 50V	
	C 704	QETC1AM-108ZN	E.CAPACITOR	1000MF 20% 10V	
	C 705	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 706	QERF0JM-476ZN	E.CAPACITOR	47MF 20% 6.3V	
	C 720	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 730	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 731	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 733	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C 734	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 740	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 750	QERF1AM-227Z	E.CAPACITOR	220MF 20% 10V	
	C 751	QERF1AM-476Z	E.CAPACITOR	47MF 20% 10V	
	C 753	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 760	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 771	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 902	QER41CM-226VM	E.CAPACITOR	22MF 20% 16V	
	C 904	QEKF1CM-107ZN	E.CAPACITOR	100MF 20% 16V	
	C 910	QEK40JM-476	E.CAPACITOR	47MF 20% 6.3V	
	C 931	QER41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	C 932	QERF0JM-107Z	E.CAPACITOR	100MF 20% 6.3V	
	C 933	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 941	QER41CM-106	E.CAPACITOR	10MF 20% 16V	
	C 942	QEK40JM-476	E.CAPACITOR	47MF 20% 6.3V	
	C 943	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	C 944	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 945	QCC11EM-393Z	C.CAPACITOR	.039MF 20% 25V	
	C 946	QCC11EM-393Z	C.CAPACITOR	.039MF 20% 25V	
	C 960	QETA1CM-227	E.CAPACITOR	220MF 20% 16V	
	C 961	QETC1CM-337ZM	E.CAPACITOR	330MF 20% 16V	
	C 964	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
	C 970	QETB1CM-228	E.CAPACITOR	2200MF 20% 16V	
	C 975	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	G,GE
	C 981	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 985	QCC11EM-223V	C.CAPACITOR	.022MF 20% 25V	
	C 990	QCY41HK-102	C.CAPACITOR	1000PF 10% 50V	G,GE

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CF 1	BFU450C4N	CERAMIC FILTER		
	CF 50	VCF2S3B-103	CERAMIC FILTER		
	CF 51	VCF2M3B-103	CERAMIC FILTER		
	CF510	CSB456F11	CERA LOCK		G,GE
	CJ905	VMC0232-S12	CONNECTOR	TO CONN PWB	
	CJ906	VMC0136-012	CONNECTOR	TO MAIN PWB	
	CJ907	VMC0259-002	CONNECTOR		
	CJ920	VGZ0007-007V	FEED THROUGH		
	CM 01	QSCB1HJ-150	C CAPACITOR		G,GE
	CM 02	QCT30CH-120Y	C.CAPACITOR	12PF 5% 50V	
	CN904	VMC0198-003	CONNECTOR		
	CP903	TXLL-005-M	CONNECTOR	FROM MECHA	
	CP905	VMC0232-012	CONNECTOR		
	CP906	VMC0135-012	CONNECTOR	TO MPX PWB	
	CP907	VMC0278-002	CONNECTOR		
	CP950	TXLL-014-M	CONNECTOR		G,GE
	D 3	SVC321SP	VARI CAP		
	D 4	1SS133	SI DIODE		
	D 5	1SS133	SI DIODE		
	D 6	1SS133	SI DIODE		
	D 7	1SS133	SI DIODE		
	D 8	1SV121	SI DIODE		
	D 9	1SV121	SI DIODE		
	D 12	SVC321SP	VARI CAP		
	D 30	1SS133	SI DIODE		
	D 50	1SS133	SI DIODE		
	D 51	1SS133	SI DIODE		
	D 52	1SS133	SI DIODE		
	D 70	1SS133	SI DIODE		
	D 301	1SS133	DIODE		B,E,GI
	D 401	1SS133	DIODE		B,E,GI
	D 501	1SS133	SI DIODE		G,GE
	D 502	1SS133	SI DIODE		G,GE
	D 510	1SS133	SI DIODE		G,GE
	D 511	1SS133	SI DIODE		G,GE
	D 550	HZS5.1EB1	ZENER DIODE		G,GE
	D 701	1SS133	SI DIODE		
	D 702	1SS133	SI DIODE		
	D 703	1SS133	SI DIODE		
	D 705	1SS133	SI DIODE		
	D 706	1SS133	SI DIODE		
	D 707	1SS133	SI DIODE		
	D 708	1SS133	SI DIODE		
	D 709	1SS133	SI DIODE		G,GE
	D 710	1SS133	SI DIODE		
	D 716	DSK10C-E	DIODE		
	D 720	HZS5.6EB2	ZENER DIODE		
	D 721	1SS133	SI DIODE		
	D 722	1SS133	SI DIODE		
	D 723	1SS133	SI DIODE		
	D 730	HZS10EB2	ZENER DIODE		
	D 740	1SS133	SI DIODE		
	D 741	1SS133	SI DIODE		
	D 751	HZS10EB2	ZENER DIODE		
	D 771	SLR-34VC3F	LED		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D 772	SLR-34VC3F	LED		
	D 901	1SS133	SI DIODE		
	D 930	1SS133	SI DIODE		
	D 931	MA700A	S.B.DIODE		
	D 932	1SS133	SI DIODE		
	D 934	1SS133	SI DIODE		
	D 935	HZS11EB2	ZENER DIODE		
	D 941	MA700A	S.B.DIODE		
	D 942	MA700A	S.B.DIODE		
	D 970	11E2	SI DIODE		
	D 981	DSK10C-E	DIODE		
	DS 1	HZS5.6EB2	ZENER DIODE		
	DS 2	HZS5.6EB2	ZENER DIODE		
	DS 3	HZS5.6EB2	ZENER DIODE		
	IC 1	LA1135	IC	AM TUNER	
	IC 50	LA1140B	IC	DET	
	IC 70	AN7465K	IC	NC/MPX	
	IC141	BA15218N	IC	BASS BOOST	
	IC241	BA15218N	IC	BASS BOOST	
	IC510	LA2220	IC	SK	G,GE
	IC550	LA2211	IC	DK	G,GE
	IC701	UPD1708AG-334	IC	SYSTEM CONTROL	
	IC901	UPC1228HA	IC	HEAD AMP	
	IC910	NJM4580L-S	IC	BUFFER	
	IC960	LA4445	IC	POWER AMP.	
	L 1	VQP0018-470	INDUCTOR		
	L 2	VQM7U01-501	OSC COIL(MW)		
	L 30	VQL7U01-501	OSC COIL(LW)		
	L 50	VQT7F29-502	IFT		
	L 970	VTC19AG-18AV	CHOCK COIL		
	PL701	VGZ0001-056	LAMP		
	PL703	VGZ0001-056	LAMP		
	PL771	VGZ0001-055	LAMP		
	PL772	VGZ0001-055	LAMP		
	Q 1	2SK519(EL,FL)	TRANSISTOR(FET)		
	Q 2	2SC1740S(R,S)	TRANSISTOR		
	Q 3	2SA933S(RS)	TRANSISTOR		
	Q 32	2SC1740S(R,S)	TRANSISTOR		
	Q 33	2SC1740S(R,S)	TRANSISTOR		
	Q 34	BA1A4M	TRANSISTOR		
	Q 35	BA1A4M	TRANSISTOR		
	Q 70	BA1L4M	TRANSISTOR		
	Q 120	2SD1302	TRANSISTOR		
	Q 141	2SK301(P,Q)	TRANSISTOR(FET)		
	Q 142	2SC1740S(R,S)	TRANSISTOR		
	Q 143	2SC1740S(R,S)	TRANSISTOR		
	Q 220	2SD1302	TRANSISTOR		
	Q 241	2SK301(P,Q)	TRANSISTOR(FET)		
	Q 242	2SC1740S(R,S)	TRANSISTOR		
	Q 243	2SC1740S(R,S)	TRANSISTOR		
	Q 501	BA1A4M	TRANSISTOR		G,GE
	Q 510	2SC1740S(R,S)	TRANSISTOR		G,GE
	Q 701	2SA933S(RS)	TRANSISTOR		
	Q 702	2SA933S(RS)	TRANSISTOR		
	Q 703	2SA933S(RS)	TRANSISTOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 704	2SA933S(RS)	TRANSISTOR		G,GE
	Q 705	2SC1740S(R,S)	TRANSISTOR		
	Q 706	BN1L4M	TRANSISTOR		
	Q 720	2SD636	TRANSISTOR		
	Q 721	2SA933S(RS)	TRANSISTOR		
	Q 722	2SC1740S(R,S)	TRANSISTOR		
	Q 730	2SC1740S(R,S)	TRANSISTOR		
	Q 731	2SC1740S(R,S)	TRANSISTOR		
	Q 740	2SC1740S(R,S)	TRANSISTOR		
	Q 741	2SC1740S(R,S)	TRANSISTOR		
	Q 742	2SC1740S(R,S)	TRANSISTOR		
	Q 750	2SD973	TRANSISTOR		
	Q 751	2SD973	TRANSISTOR		
	Q 752	2SA933S(RS)	TRANSISTOR		
	Q 753	BA1A4M	TRANSISTOR		
	Q 754	2SA933S(RS)	TRANSISTOR		
	Q 755	BA1L4M	TRANSISTOR		
	Q 756	BA1L4M	TRANSISTOR		
	Q 757	BN1L4M	TRANSISTOR		
	Q 758	2SA933S(RS)	TRANSISTOR		B,E,GI
	Q 760	BA1A4M	TRANSISTOR		B,E,GI
	Q 771	2SC1740S(R,S)	TRANSISTOR		
	Q 901	2SC1740S(R,S)	TRANSISTOR		
	Q 930	BN1L4M	TRANSISTOR		
	Q 931	BN1A4M	TRANSISTOR		
	Q 941	BN1L4M	TRANSISTOR		
	Q 942	BA1L4M	TRANSISTOR		
	Q 943	2SC1740S(R,S)	TRANSISTOR		
	Q 981	BN1A4M	TRANSISTOR		
	Q 982	2SC1740S(R,S)	TRANSISTOR		
	R 1	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 2	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 3	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 4	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 5	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 6	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 7	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
	R 8	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 9	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 10	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 11	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 12	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 13	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 14	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 15	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 16	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 17	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
	R 32	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 33	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 34	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 37	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 38	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 40	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 42	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	G,GE
	R 42	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	B,E,GI

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 43	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 51	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 52	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 53	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 54	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 55	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 56	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 58	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 59	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 60	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 61	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 65	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 70	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 71	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 72	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 73	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 74	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	R 75	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 76	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 77	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 78	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 79	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 80	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 81	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 82	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 83	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 102	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 103	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 104	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 110	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 111	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 112	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 114	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 120	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 130	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 131	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 132	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 133	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 141	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 142	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 143	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 144	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 145	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 146	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
	R 147	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 148	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 149	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 150	QRD161J-335YK	CARBON RESISTOR	3.3M 5% 1/6W	
	R 151	QRD161J-335YK	CARBON RESISTOR	3.3M 5% 1/6W	
	R 152	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 153	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 154	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 160	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
	R 161	QRD161J-3R3	CARBON RESISTOR	3.3 5% 1/6W	
	R 180	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	G,GE

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 202	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 203	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	R 204	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R 210	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 211	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 212	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 214	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 220	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 230	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 231	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 232	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 233	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 241	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 242	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
	R 243	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 244	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 245	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 246	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	
	R 247	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 248	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 249	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 250	QRD161J-335YK	CARBON RESISTOR	3.3M 5% 1/6W	
	R 251	QRD161J-335YK	CARBON RESISTOR	3.3M 5% 1/6W	
	R 252	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 253	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 254	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 260	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
	R 261	QRD161J-3R3	CARBON RESISTOR	3.3 5% 1/6W	
	R 280	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	G,GE
	R 301	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 401	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 502	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	G,GE
	R 510	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	G,GE
	R 511	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	G,GE
	R 512	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	G,GE
	R 513	QRD167J-161	CARBON RESISTOR	160 5% 1/6W	G,GE
	R 514	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	G,GE
	R 515	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	G,GE
	R 516	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	G,GE
	R 517	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	G,GE
	R 518	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	G,GE
	R 519	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	G,GE
	R 520	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	G,GE
	R 521	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	G,GE
	R 522	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	G,GE
	R 550	QRD161J-470	CARBON RESISTOR	47 5% 1/6W	G,GE
	R 551	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	G,GE
	R 553	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	G,GE
	R 554	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	G,GE
	R 555	QRD161J-684	CARBON RESISTOR	680K 5% 1/6W	G,GE
	R 556	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	G,GE
	R 557	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	G,GE
	R 701	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 702	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 703	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 704	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 705	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 706	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 707	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 708	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 709	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 711	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 712	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 713	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	G,GE
	R 714	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	G,GE
	R 718	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 720	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 721	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 722	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 723	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 724	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 726	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 730	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 731	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 732	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 733	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 734	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 735	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 736	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 740	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 741	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 742	QRD167J-682	CARBON RESISTOR	3.9K 5% 1/6W	
	R 743	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 744	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 745	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 750	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 752	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 753	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 756	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 758	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 763	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	B,E,GI
	R 764	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	B,E,GI
	R 771	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 772	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 773	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 776	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 777	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 781	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 782	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 901	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 902	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 910	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 911	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 930	QRD141J-102S	CARBON RESISTOR	1.0K 5% 1/4W	
	R 931	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 934	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 936	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 941	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 942	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 943	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 944	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 945	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 946	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 947	QRD161J-184	CARBON RESISTOR	180K 5% 1/6W	
	R 948	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	R 949	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R 950	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 981	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 982	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 985	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RS 5	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RS 6	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RS 7	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RS 8	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RS 9	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RS 10	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RS 11	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RY981	VSK1D12-118	RELAY	POWER SWITCH	
	S 771	QSQ1B11-V01Z	TACT SWITCH		
	S 772	QSQ1B11-V01Z	TACT SWITCH		
	S 773	QSQ1B11-V01Z	TACT SWITCH		
	S 774	QSQ1B11-V01Z	TACT SWITCH		
	S 775	QSQ1B11-V01Z	TACT SWITCH		
	S 776	QSQ1B11-V01Z	TACT SWITCH		
	S 777	QSQ1B11-V01Z	TACT SWITCH		
	S 778	QSQ1B11-V01Z	TACT SWITCH		
	S 779	QSQ1B11-V01Z	TACT SWITCH		
	S 780	QSQ1B11-V01Z	TACT SWITCH		
	T 1	VQZ0031-001	MW RF COIL		
	T 2	VQZ0031-101	MW RF COIL		
	T 3	VQT7A21-105	IFT		
	T 4	VQT7A11-206	IFT		
	T 30	VQZ0056-001	LW RF COIL		
	T 31	VQZ0056-001	LW RF COIL		
	TC 1	QAT3722-200ZM	T.CAPACITOR		
	TC 30	QAT3722-600ZM	T.CAPACITOR	LW	
	TP 1	TXLP-002-B	CONNECTOR		
	TP 5	TXLL-002-M	CONNECTOR	19K TEST	
	TU 1	VAF2S11-005	TUNER PACK	FM	G,GE
	TU 1	VAF2S11-004	FM FRONT END	FM	B,E,GI
	VR 50	QVZ3523-331AZ	V.RESISTOR		
	VR 70	QVPA603-222AZA	SEMI.V.RESISTOR		
	VR 80	QVPC610-472	SEMI.V.RESISTOR		
	VR550	QVPC610-472	SEMI.V.RESISTOR	125HZ	G,GE
	VR920	VCV1001-152	V RESISTOR	BASS/TRE	
	VR921	VCV1001-153	V RESISTOR	BALANSE	
	VR922	VCV1001-151	V RESISTOR	SW,VOL,FAD	
	X 701	V472124-A0	CRYSTAL		

8 Exploded View of Enclosure Component Parts and Parts List

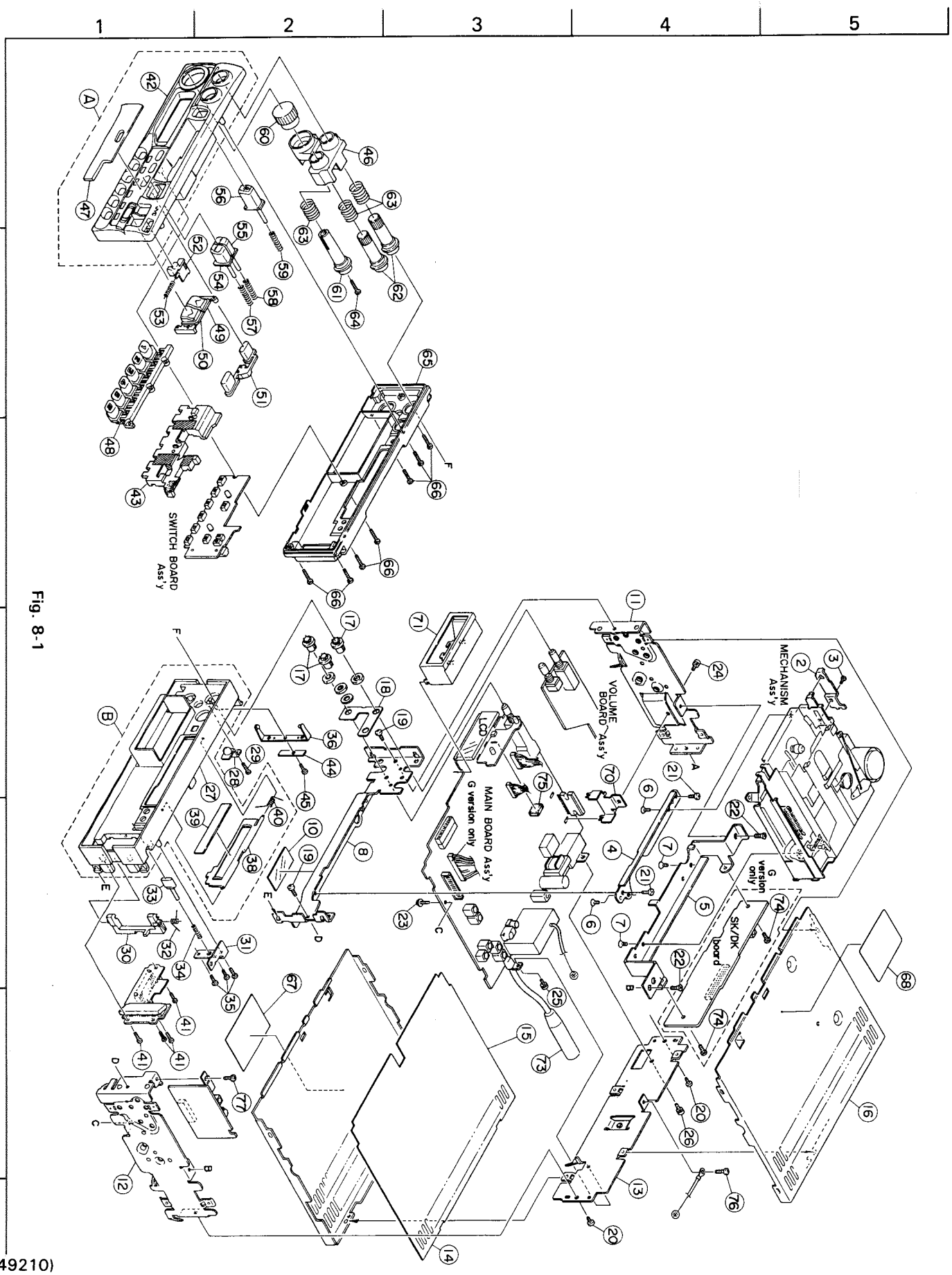


Fig. 8-1

• Enclosure Compoment Parts List

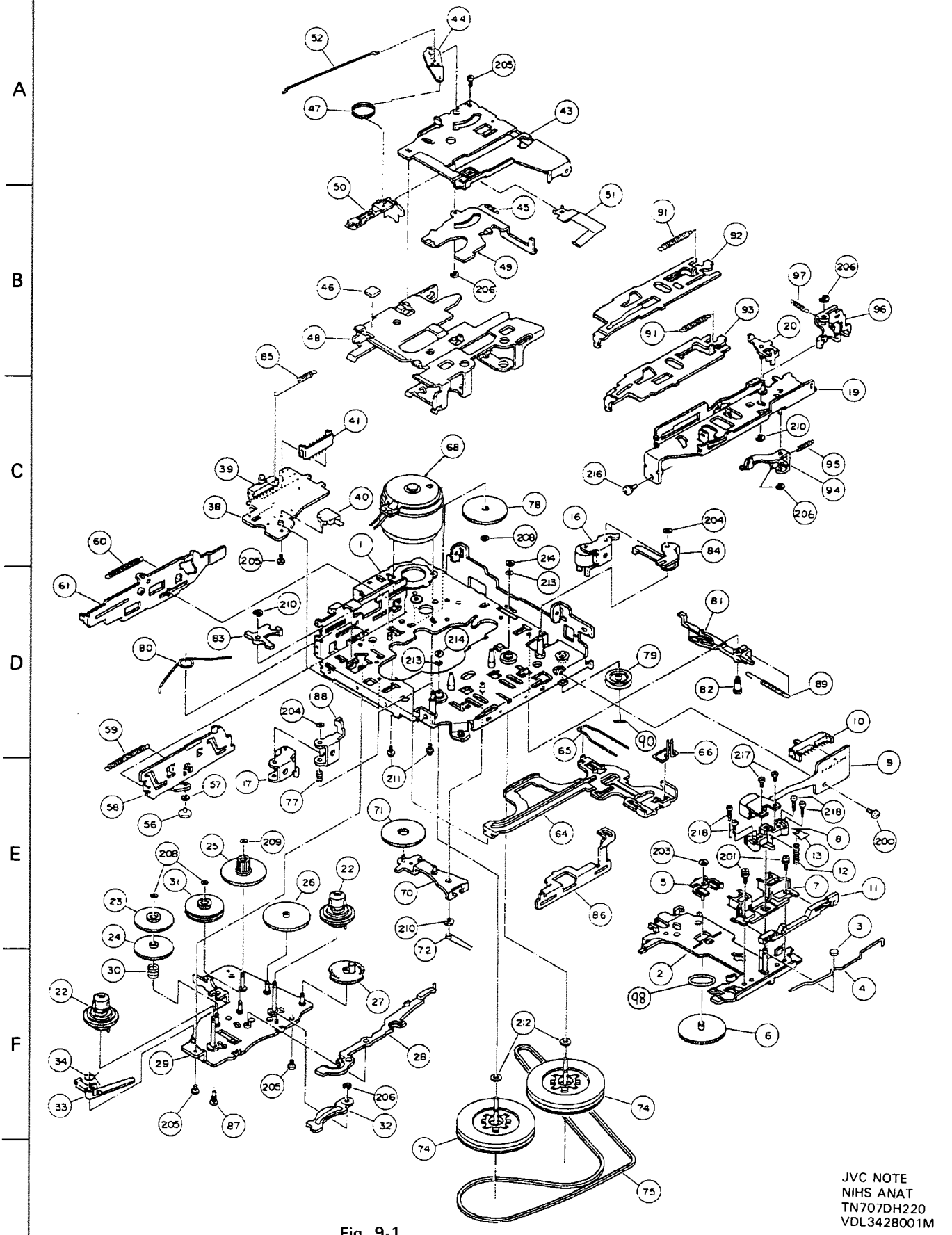
BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCKSRT35G-NPA	FRONT PANEL	NO.42,NO.47,	1	G,GE	
		ZCKSRT35J-NPA	NOSE PIECE	NO.42,NO.47	1	B,E,GI	
	B	ZCKSRT35K-FB	FRONT CHASSIS	NO.27.NO.38-40,	1		
	2	VKL7226-003	EJECT LEVER		1		
	3	SPSK2625Z	MINI SCREW		1		
	4	VKM3645-001	MECHA BRACKET F		1		
	5	VKM3594-001	MECHA BRACKET R		1		
	6	SSSP3005Z	SCREW	MECHA+M.BKT(F)	2		
	7	SSSP3005Z	SCREW	MECHA+M.BKT(R)	2		
	8	VKM3642-001	FRONT BRACKET		1		
	10	VYSS1R4-006	SPACER	FRONT BKT	1		
	11	VKL2723-001	SIDE BKT(L)		1		
	12	VKL2724-001	SIDE BKT(R)		1		
	13	VKM3349-001	REAR BRACKET		1		
	14	VKM3352-004	BOTTOM COVER		1		
	15	VMA3167-004SS	INSULATOR		1		
	16	VKM3398-005	TOP COVER		1		
	17	VKS5439-001	SHAFT KNOB		3		
	18	VKL7274-002	VOLUME HOLDER		1		
	19	SDST2605Z	SCREW	SIDE(L&R)+FRONT	2		
	20	SDST2605Z	SCREW	SIDE(L&R)+REAR	2		
	21	SDST2605Z	SCREW	M.BKT+FRONT BKT	2		
	22	SSST2606Z	SCREW	M.BKT+SIDE(L&R)	2		
	23	VKZ4345-005	SPECIAL SCREW	MAIN PWB+SIDE B	1		
	24	LPSP3005Z	SCREW	S.BKT(L)+IC BKT	1		
	25	LPSP3005Z	SCREW	REAR BKT+ANT.CO	1		
	26	LPSP3005Z	SCREW	9P CONNECTOR+R.	1		
	27	FSJC2004-002	FRONT CHASSIS		1		
	28	VJK4399-002	LENS		1		
	29	SPSN1755N	MINI SCREW	F.CHASSIS+LENS	1		
	30	VKS5438-001	LOCK LEVER		1		
	31	VKL7267-001	LEVER BRACKET		1		
	32	VKW5093-001	TORSION SPRING	LOCK LEVER	1		
	33	VXP5139-001	RLS KNOB		1		
	34	VKW3001-298	COMP.SPRING		1		
	35	SDSF2006Z	SCREW	F.CHASSIS+L.BKT	3		
	36	VKY4665-00E	LOCK SP ASS'Y		1		
	38	VJC4145-002SS	CASSETTE LID		1		
	39	FSJC4001-001	LID PLATE		1		
	40	VKW4947-003	DOOR SPRING		1		
	41	SPSN1755N	MINI SCREW	F.CHASSIS+C.PWB	4		
	42	FSJC1010-006	FRONT PANEL		1		
	43	ZCKSRT35K-LENS	LIGHT LENS ASSY		1		
	44	VKL7647-001	PLATE		1		
	45	SDSF2008M	SCREW	F.CHASSIS+L.SPR	1		
	46	VJK2182-001	KNOB LENS		1		
	47	FSJD3006-00G	FINDER		1	G,GE	
		FSJD3006-00F	FINDER		1	B,E,GI	
	48	VXP2066-001	PRESET BUTTON		1		
	49	VXP3571-001	DOWN BUTTON		1		
	50	VXP3572-001	UP BUTTON		1		
	51	VXP3577-005	PUSH BUTTON		1		
	52	FSXP3007-003	DETACH BUTTON		1		
	53	VKW3001-302	COMP. SPRING	DETACH BUTTON	1		
	54	FSXP3009-001	FF BUTTON		1		

BLOCK NO. M1MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	55	FSXP3010-001	REW BUTTON		1		
	56	FSXP3008-001	EJECT BUTTON		1		
	57	VKW3001-304	COMP. SPRING	FF BOTTON	1		
	58	VKW3001-304	COMP. SPRING	REW BOTTON	1		
	59	VKW3001-304	COMP. SPRING	EJECT BOTTON	1		
	60	VXL4428-001	VOL KNOB		1		
	61	VKS5445-001	VOL KNOB(R)		1		
	62	VXL4429-001	TONE KNOB		2		
	63	VKW5071-001	COMP. SPRING	TONE KNOB	3		
	64	SPSN1755N	MINI SCREW	VOL KNOB(F)+(R)	1		
	65	FSJC1012-002	REAR COVER		1		
	66	SPSN1755N	MINI SCREW	FRONT+REAR	7		
	67	FSYN3004-008	NAME PLATE		1	G	
		FSYN3004-006	NAME PLATE		1	B,E	
		FSYN3004-008S	NAME PLATE		1	GE	
	68	VND4391-001	CAUTION LABEL		1		
	70	VKL6996-001	IC BRACKET		1		
	71	VKL2631-002	LAMP CASE		1		
	73	FSMP0001-001	ANT SOCKET		1		
	74	SDST2605Z	SCREW	MECHA BKT+SK/DK	2		
	75	VYSR103-048	SPACER		1		
	76	SDST2605Z	SCREW	TUNER PACK+REAR	1		
	77	SDST2605Z	SCREW	SIDE BKT(R)+PWB	1		
	LCD	VGL1131-001E	LCD	FRONT:38%,BACK:	1		

9 Exploded View of Mechanism Component Part



JVC NOTE
NIHS ANAT
TN707DH220
VDL3428001M

Fig. 9-1

arts and Parts List

● Mechanism parts list

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	194001519T	CHASSIS ASS'Y		1		
	2	194016501T	HEAD PANEL ASY		1		
	3	19400303T	SP ROLLER		1		
	4	19400304T	P.R.SPRING		1		
	5	19400305T	P.GEAR METAL		1		
	6	19400306T	P.GEAR		1		
	7	19400312T	TAPE GUIDE U		1		
	8	19400327T	HEAD HOLDER B		1		
	9	62011702T	HEAD	P-7542-BB0571	1		
	10	64020207T	SLIDE SWITCH	SSSSA3002A	1		
	11	19400328T	SHIFT PLATE B		1		
	12	19400315T	H.G SPRING		1		
	13	9F2635010T	FASTEN WASHER		1		
	16	194004301T	P.ROLL.ARM(F)AS		1		
	17	194004302T	P.ROLL.ARM(R)AS		1		
	19	194005503T	F.R.BKT(M)ASS'Y		1		
	20	194005504T	SEESAW P(M)ASY.		1		
	22	194006302T	T.REEL ASS'Y		2		
	23	19400612T	P.GEAR (R)		1		
	24	19400613T	F.GEAR (R)		1		
	25	19400615T	P.D.GEAR		1		
	26	19400616T	E.D.GEAR		1		
	27	19400617AT	REVERSE GEAR(M)		1		
	28	19400648T	E.D.PLATE B		1		
	29	194002501T	M.G.P.SEMI-ASY.		1		
	30	19400635T	TN SPRING		1		
	31	194006312T	P.CLUTCH ASS'Y		1		
	32	194014129T	LIFT UP PLATE		1		
	33	19401464T	ANTI-REV ARM		1		
	34	19401460T	TRI ARM SPRING		1		
	38	19400704T	SW SUBSTRATE		1		
	39	64020206T	SLIDE SWITCH	SSSSA2001A SM01	1		
	40	64020405T	PUSH SWITCH	SPVC11001A SM02	1		
	41	68140245T	CONNECTOR	53253-0720	1		
	43	19400801T	CASE LIFTER		1		
	44	184008503T	P.E PLATE ASS'Y		1		
	45	18400820T	SPRING		1		
	46	18400875T	CUSSHION RUBBER		1		
	47	19400813T	REVERSE SP.C		1		
	48	19401410T	CASSETTE CASE M		1		
	49	19400804T	C.D PLATE B		1		
	50	19400810T	PACK SLIDER		1		
	51	19400806T	PACK PRESS.SP.		1		
	52	18400823T	P.E SPRING		1		
	56	19400901T	H.P.ROLLER(A)		1		
	57	19400902T	H.P.ROLLER(B)		1		
	58	19400903T	C.H.PUSH PLAT.M		1		
	59	19400905T	C.H.SPRING		1		
	60	19400906T	PUSH LEVER SP.		1		
	61	19400907T	PUSH LEVER M		1		
	64	19401001T	MAIN PLATE		1		
	65	19401002T	M.S.SPRING		1		
	66	19401007T	H.S.SPRING		1		
	68	194011310T	MOTOR ASS'Y	MCI-5U3LCKA	1		

BLOCK NO. M2MM[ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	70	194012504T	FR W.PLT.SEM.AS		1		
	71	19401703T	F.GEAR		1		
	72	19401704T	FR SPRING M		1		
	74	194013303T	F.L.CAPS.ASS'Y		2		
	75	19401417T	MAIN BELT		1		
	77	18400437T	P.P SPRING		1		
	78	194014123T	MAIN GEAR M		1		
	79	194014115T	MIDDLE PULLEY		1		
	80	19401403T	HEAD PANEL SP.M		1		
	81	19401405T	TRIGGER ARM(C)		1		
	82	19401406T	COLLAR SCREW(T)		1		
	83	19401408T	H.P.PUSH ARM		1		
	84	19401409T	SEESAW WRK.PLT.		1		
	85	19401412T	POWER SW.SPRING		1		
	86	194014127T	FR SLIDE PLT.M		1		
	87	19401415T	COLLAR SCREW(P)		1		
	88	19401416T	H.P.RETURN ARM		1		
	89	19401407T	T.A.SPING(C)		1		
	90	9W0225010T	P.WASHER CUT		1		
	91	19401589T	FR LEVER SPRING		2		
	92	19401590T	FF LEVER (MH)		1		
	93	19401591T	REW LEVER (MH)		1		
	94	19401503T	P.C.PLATE		1		
	95	19401504T	P.C.SPRING		1		
	96	19401505T	ROCK PLATE (M)		1		
	97	19401506T	ROCK PLATE SP.M		1		
	98	9W0540020T	HL WASHER	10 X 14 X 0.4	1		
	200	9P1220051T	S TAPPING SCREW	M2 X 5	1		
	201	9P0220051T	TAMS SCREW	M2 X 5	2		
	203	9W0640070T	HL WASHER CUT	2.1 X 4 X 0.4	1		
	204	9W0630060T	HL WASHER CUT	1.6 X 3.8 X 0.3	2		
	205	9C0420303T	S TAPPING SCREW	FOR CAMERA M2X3	4		
	206	9E0100152T	E RING	S1.5	4		
	208	9W0625030T	HL WASHER CUT	1.2 X 3 X 0.25	3		
	209	9W0630050T	HL WASHER CUT	1.6 X 3.4 X 0.3	1		
	210	9E0100202T	E RING	S2.0	3		
	211	9P0220031T	TAMS SCREW	M2 X 3	2		
	212	9W0513060T	HL WASHER	2.1 X 5 X 0.13	2		
	213	9W0520010T	HL WASHER CUT	1.85 X 3.2 X 0.	2		
	214	9W0650030T	HL WASHER CUT	1.5 X 3.2 X 0.5	2		
	216	9P0226041T	TAMS SCREW	M2.6 X 4	1		
	217	9F2720401T	SCREW	FOR HEAD	2		
	218	9F2220071T	ADJUST SCREW		4		

10 Packing Illustration and Packing Parts List

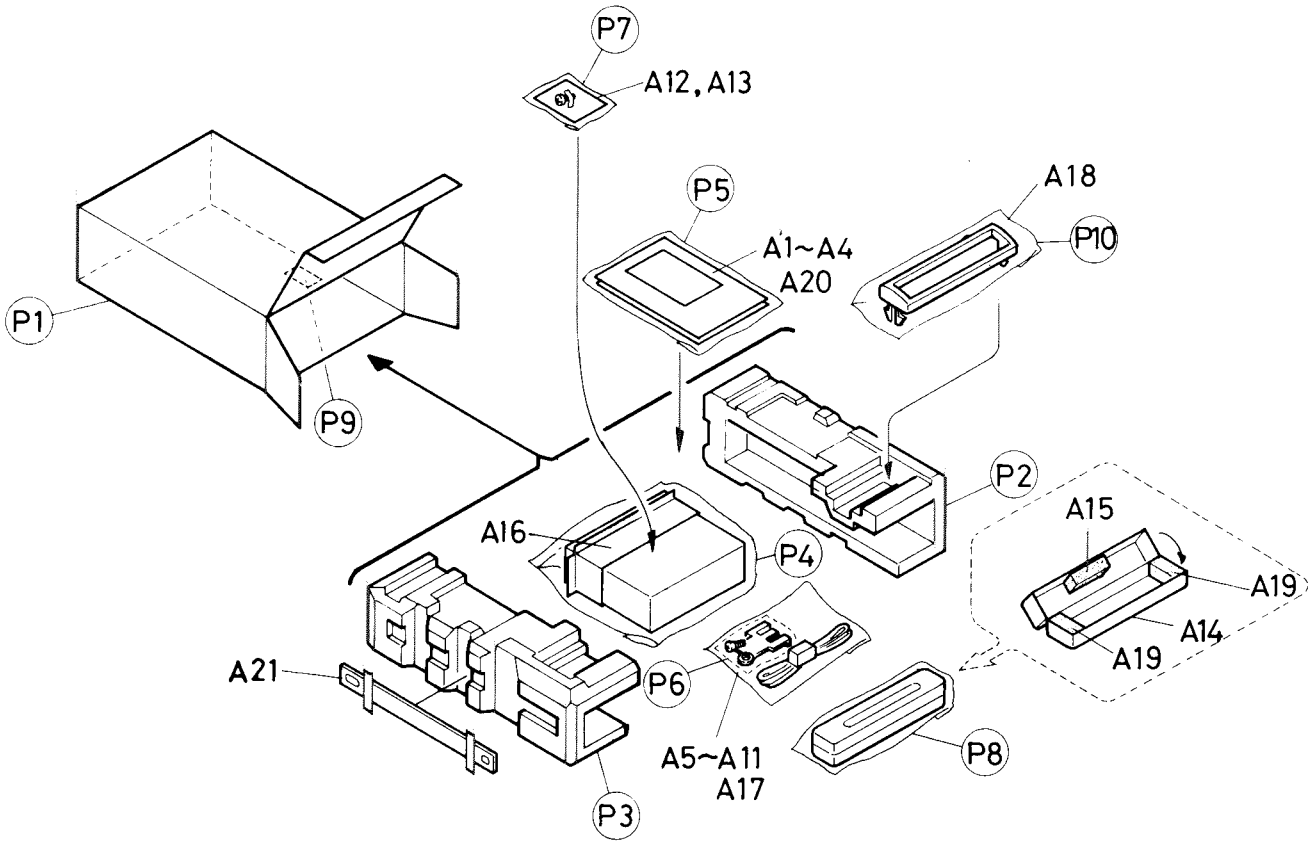


Fig. 10-1

■ Screw Kit Illustration

(KS-RT35K – SCREW1)

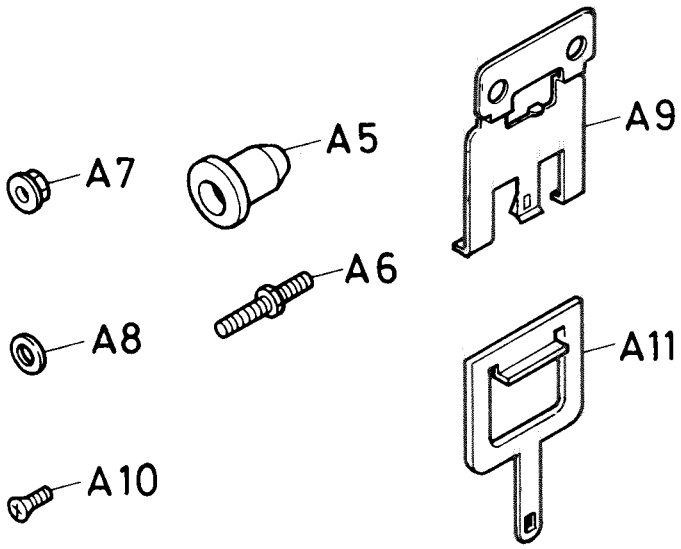


Fig. 10-2

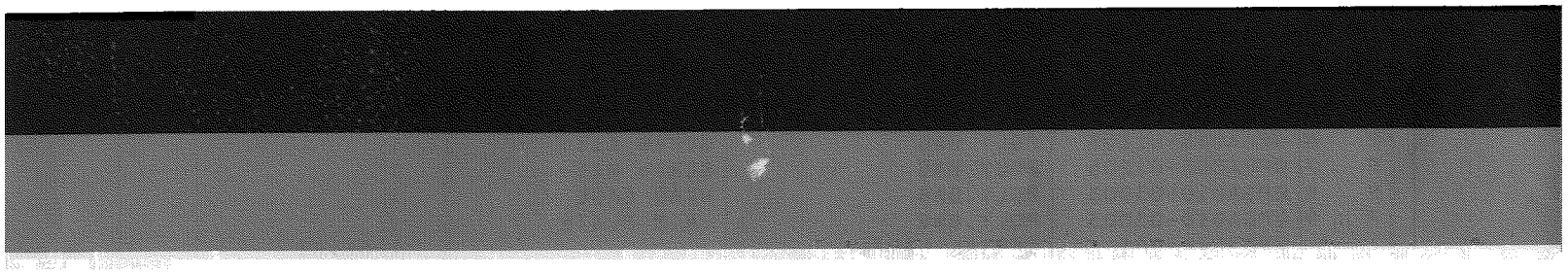
• Packing Parts List

BLOCK NO. M3MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	FSPE3001-006	CARTON		1		
	P 2	VPH1647-002	CUSHION(L)		1		
	P 3	VPH1648-002	CUSHION(R)		1		
	P 4	VPE3020-046	POLY BAG	SET(270X450X0.0	1		
	P 5	QPGB017-02404	POLY BAG	INSTRUCTIONS	1		
	P 6	QPGA008-01205	POLY BAG	SCREW KIT	1		
	P 7	QPGA008-01205	POLY BAG	SCREW KIT	1		
	P 8	QPGA010-03003	POLY.BAG	HEAD CASE	1		
	P 9	QPGA010-03003	POLY.BAG	TRIM PLATE	1		
		VND3046-001	SERIAL LABEL		1	GE,GI	
		VND3046-003	SERIAL LABEL		1	E	
		VND3046-004	SERIAL LABEL		1	B	
		VND3046-005	SELIAL LABEL		1	G	

BLOCK NO. M3MM[ ][ ][ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	FSUN3004-211S	INSTRUCTIONS		1		
		FSUN3004-451S	INSTRUCTIONS		1	E	
		FSUN3004-481S	INSTRUCTIONS		1	E	
	A 2	VNC2400-066	CAUTION SHEET		1		
	A 3	BT-20066A	WARRANTY CARD		1	B	
		BT20060	AWRRANTY CARD		1	B	
		BT-20135	WARRANTY CARD		1	G	
	A 4	VND3050-001	IDENTITY CARD		1		
	A 5	VKZ4027-202	PLUG NUT		1		
	A 6	VKH4871-001	MOUNT BOLT		1		
	A 7	VKZ4328-001	LOCK NUT	M5	1		
	A 8	WNS5000Z	WASHER		1		
	A 9	VKY3124-001	SIDE SPRING		2		
	A 10	SSSP4006Z	SCREW	SIDE SPRING	4		
	A 11	VKL7233-001	HOOK		2		
	A 12	SPSJ1725M	MINI SCREW		1		
	A 13	VND4619-001	SHEET		1		
	A 14	VJB2014-001	HARD CASE		1		
	A 15	FSYH3008-002	SPACER	HEAD CASE	1		
	A 16	VKL3732-018SS	MOUNTING SLEEVE		1		
	A 17	VMC0014-103	9P CORD ASS'Y		1		
	A 18	FSJD2004-002	TRIM PLATE		1		
	A 19	VYSH118-002	SPACER		2		
	A 21	VKL5460-001	STAY		1		
	KIT 1	KSRT35K-SCREW1	SCREW PARTS KIT	A5-A11,P6	1		
	KIT 2	KSRT30K-SCREW2	SCREW PARTS KIT	A12-A13,P7	1		



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