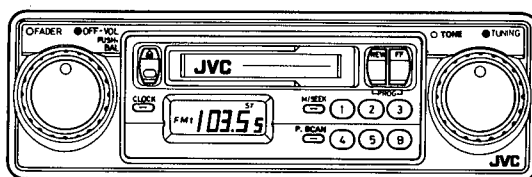


JVC

SERVICE MANUAL

CASSETTE CAR RECEIVER

KS-R127 J



Area suffix

J U.S.A.

Contents

	Page		Page
1 Features	2	8 Wiring Connections	17
2 Specifications	2	9 Standard Schematic Diagram	18
3 Location of Controls and Main Operations	3	10 Location of P.C. Board Parts and Parts List	20
4 Location of Main Parts	9	11 Exploded View of Enclosure Assembly	25
5 Removal of Main Parts	10	12 Exploded View of Mechanism Assembly	26
6 Main Adjustment	12	13 Packing Illustration and Packing Parts List	30
7 Block Diagram	16		

1 Features

- AM/FM Stereo PLL Synthesizer Tuner
- 20 Station Preset Tuning
- Preset Scan Tuning, UP/Down Seek Tuning, Manual Tuning
- U-Turn Auto Reverse Mechanism
- TONE Control
- FADER Control
- Maximum Power Output of 8 watts per channel
- Digital CLOCK button

2 Specifications

Audio Amplifier Section

Maximum Power Output	: 8 watts per channel (2-channel), 5 watts per channel (4-channel)
Continuous Power Output (RMS)	: 3 watts per channel into 4 Ω , 100 to 20,000 Hz, at no more than 0.8% THD (2 channel)
Load Impedance	: 4 Ω (4~8 Ω Allowable)
Frequency Response	: 40–20,000 Hz
Signal-to-Noise Ratio	: 60 dB

Radio Section

Frequency Range	: FM: 87.5–107.9 MHz AM: 530–1,710 kHz
(FM Tuner)	
Usable Sensitivity	: 17.2 dBf (2.0 μ V/75 Ω)
50 dB Quieting Sensitivity	: 19.5 dBf (2.6 μ V/75 Ω)
Alternate Channel Selectivity	: (400 kHz): 65 dB
Frequency Response	: 40–15,000 Hz
Stereo Separation	: 30 dB
Capture Ratio	: 2.0 dB

(AM Tuner)	
Sensitivity	: 20 μ V
Selectivity	: 35 dB

Cassette Deck Section

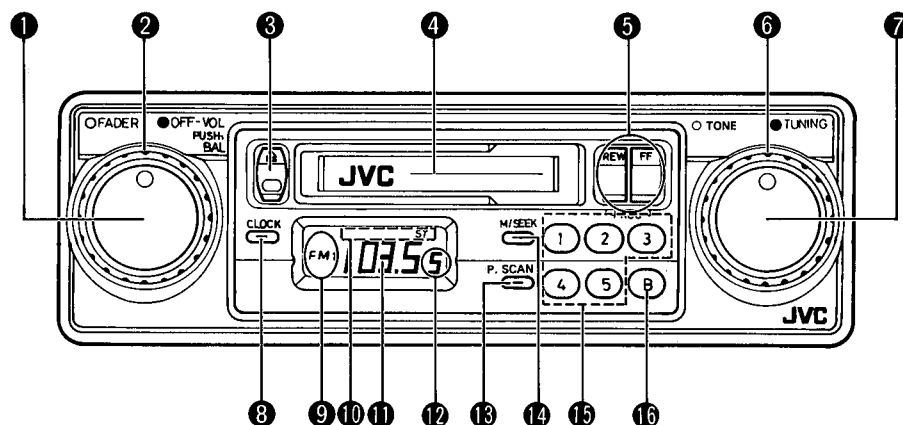
Wow & Flutter	: 0.11% (WRMS)
Fast Wind Time	: 100 sec. (C-60)
Frequency Response	: 50–13,000 Hz (\pm 3 dB)
Signal-to-Noise Ratio	: 52 dB
Stereo Separation	: 40 dB

General

Power Requirement	
Operating Voltage	: DC 14.4 V (11 V–16 V Allowable)
Grounding System	: Negative Ground
Dimensions (W×H×D)	
Chassis	: 178×50×130 mm (7-1/16"×2"×5-1/8")
Nosepiece	: 105×42×35 mm (4-3/16"×1-11/16"× 1-7/16")
Control Shaft Pitch	: 148 mm (5-7/8")
Gross Weight	: 1.5 kg (3.4 lbs)

Design and specifications subject to change without notice.

3 Location of Controls and Main Operations



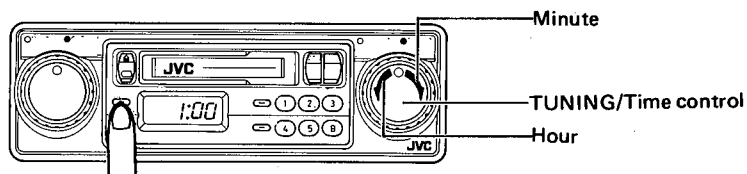
- ❶ Power on-OFF/volume (VOL)/Push balance (PUSH BAL) control
- ❷ FADER control
- ❸ Eject (▲) button
- ❹ Cassette loading slot
- ❺ Program (PROG)/REW, FF buttons
- ❻ TONE control
- ❼ TUNING/Time control
- ❽ CLOCK button
- ❾ Band indicator (FM1-FM2-FM3-AM)
- ❿ Indicators
- Ⓜ SEEK
- Ⓝ ST (FM Stereo)
- Ⓜ (Tape direction)
- Ⓛ Radio frequency/Time display
- Ⓜ Preset station indicator
- Ⓝ Preset scan (P. SCAN) button
- Ⓜ Manual (M)/SEEK button
- Ⓜ Preset station buttons
- Ⓜ Band (B) button

DIGITAL CLOCK DISPLAY

When listening to a tape, the display will show the time. When listening to the radio, each time the CLOCK button is pressed the time and frequency can be selected. When the radio is operated in the time mode, the display will switch to frequency, then, after a short time, will return to the time mode. To cancel the time mode, press the CLOCK button again.

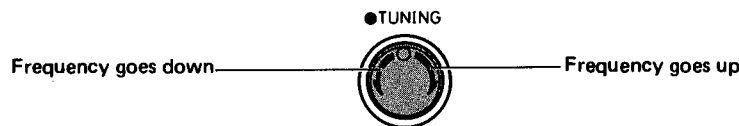
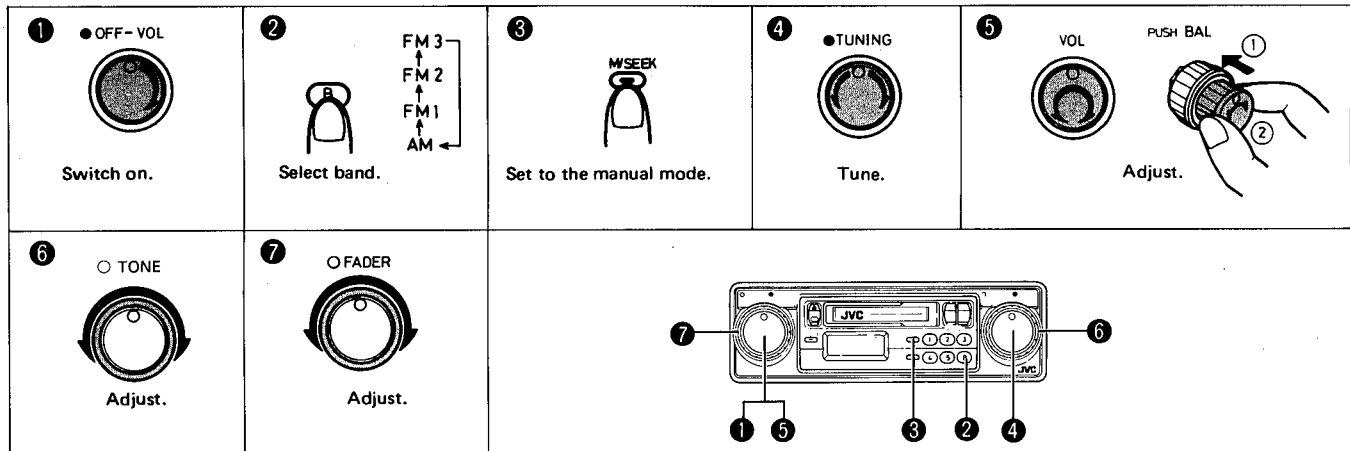
• To adjust the time

When the display is in the time mode, while keeping the CLOCK button pressed, turn the Tuning control counterclockwise to adjust the "hours" and turn the Tuning control clockwise to adjust the "minutes".



RADIO OPERATION

Operate in the order shown.



MANUAL TUNING

Set to the manual mode using the M/SEEK button. When SEEK is not shown in the display, the unit is in the manual mode. The Tuning control will not lock in place; it automatically returns to its center position when released. Keep the control in position for more than 0.5 second to change frequencies rapidly. You can step through the frequency in 200 kHz units (C/J version) or 100 kHz units (A/U version) for FM and 10 kHz units (C/J version) or 9 kHz units (A/U version) for AM.

SEEK TUNING

Set to the seek mode using the M/SEEK button; the SEEK indicator will light. Then, by turning the Tuning control the unit tunes to the adjacent station with a higher or lower frequency.

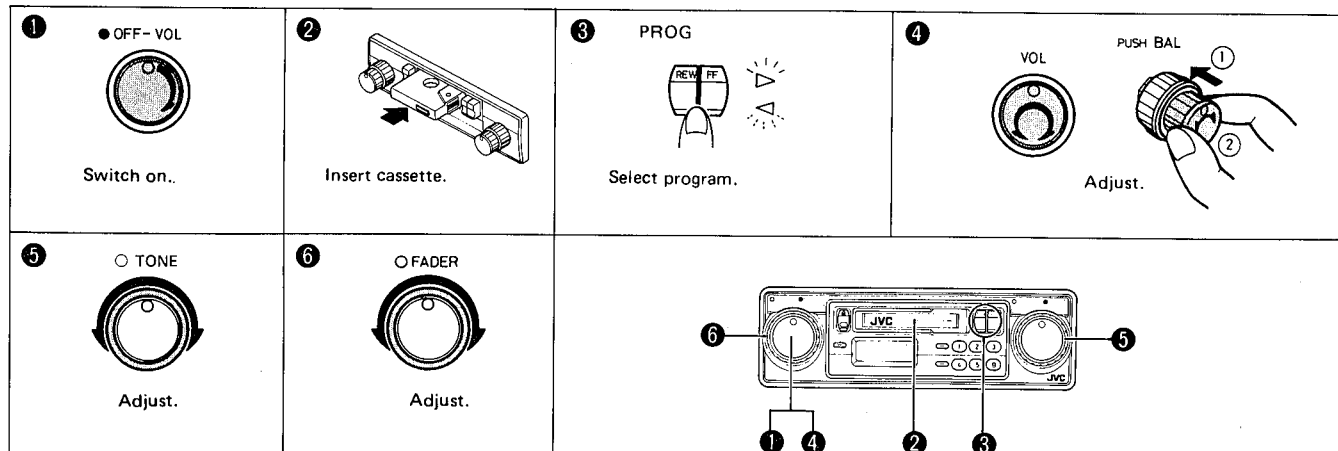
PRESET SCAN BUTTON TUNING

This makes it possible to automatically scan preset FM and AM stations.

- ① Press the P.SCAN button.
- ② Scanning is performed in the order of preset stations in each frequency band (FM1, FM2, FM3 and AM). Each preset station is heard for approx. 5 seconds.
- ③ When the required station is heard and its frequency is flashing, press the P.SCAN button again.

TAPE OPERATION

Operate in the order shown.



TO FAST FORWARD AND REWIND THE TAPE

Press the FF button to fast forward of the side being played back; when the end of tape is detected, the tape is reversed and played back from the beginning of the other side. Press the REW button to rewind the tape. When the tape is rewound to the beginning, it is played back again. Lightly press the other PROG button to start play from the current position during the fast forward or rewind mode.

AUTO-REVERSE MECHANISM

When the tape reaches the end of one side, this mechanism automatically switches over to play back the other side. To listen to the other side while playing one side, press the PROG buttons. The change in the tape transport direction can be checked from the Tape Direction indicators.

PRESET BUTTON TUNING

5 stations in each band (FM1, FM2, FM3 and AM) can be preset as follows;

- Example (when presetting Preset Station button "5" to FM station at 103.5 MHz)

- ① Select the FM1 band using the B button.
 - ② Set to the manual mode.
 - ③ Tune to the desired station.
 - ④ Press Preset Station button "5" for more than 2 sec. (When "5" flashes in the Preset Station display, the station is preset.)
- Repeat the above procedure for each of the other four stations using a different Preset Station button each time.
 - Follow the above procedure for the other bands (FM2, FM3 and AM).

Notes:

- The preset station is erased when a station is newly preset because the new station is stored in the memory.
- The preset station is erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the station again.

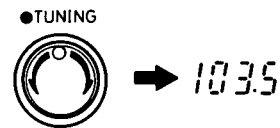
①



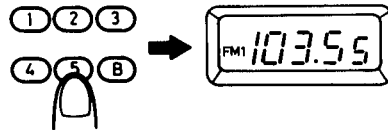
②



③



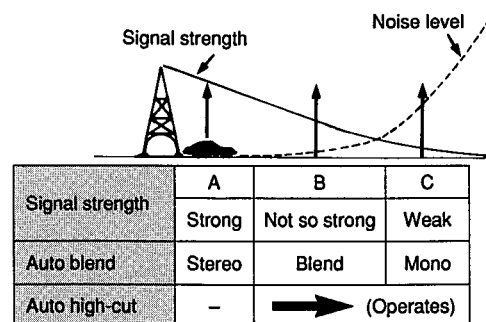
④



(RADIO RECEPTION)

Automatic FM Noise Suppressor (AFNS)

This unit incorporates an automatic FM noise suppression circuit to ensure satisfactory reception of FM broadcasts when a vehicle is moving and signal strengths are continuously fluctuating.



INSTALLATION (IN-DASH MOUNTING)

IMPORTANT

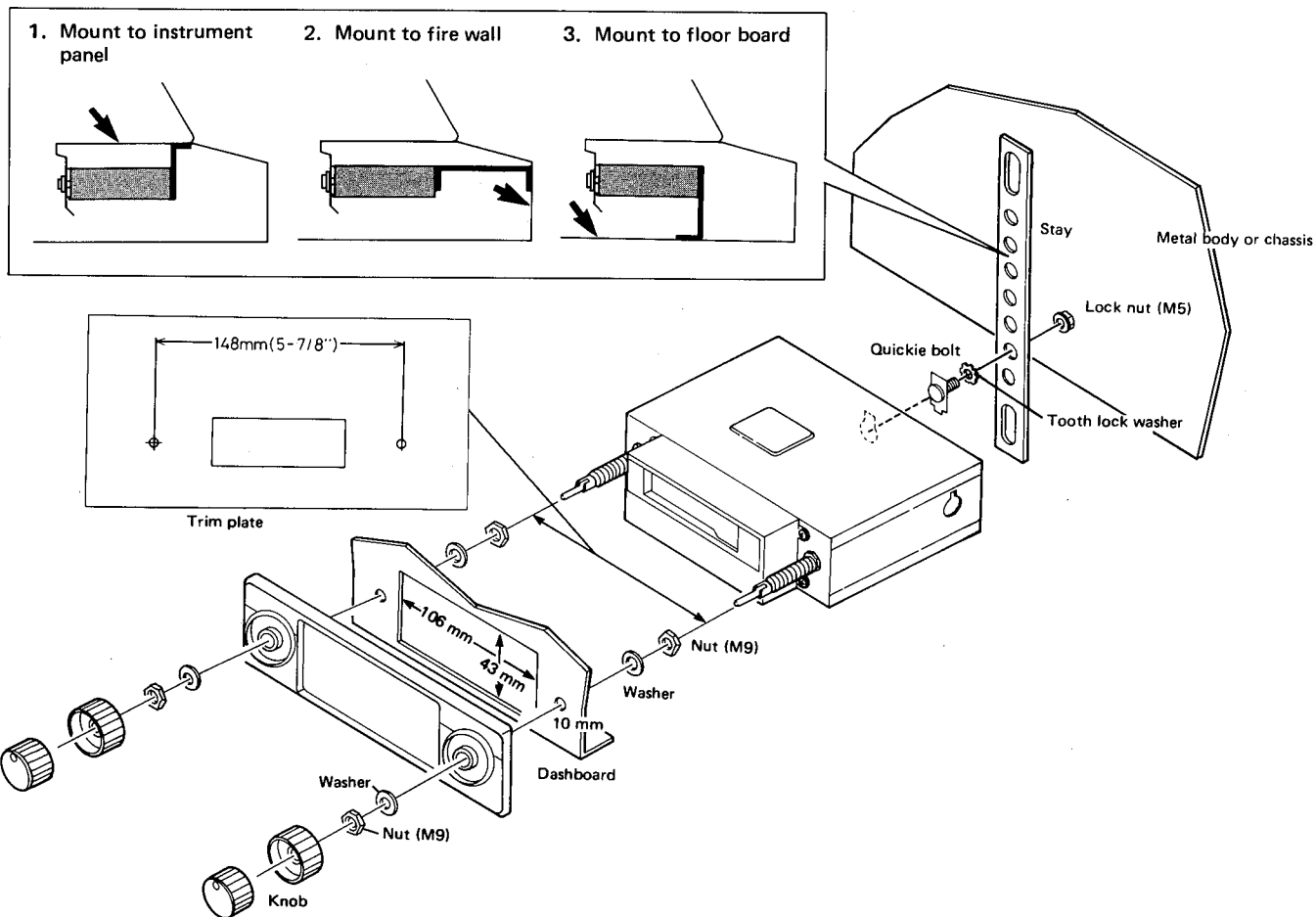
- Before using this unit for the first time, press the Eject button fully, to reset the mechanism.

- 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 car audio dealer or a company supplying kits.

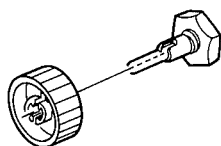
Note:

In some cases, it may be necessary to adjust the opening in the trim plate and/or dashboard, etc. to fit your car.

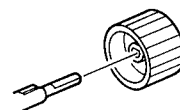
- Examples for use of the back stay



- Knob attachment



- Align both of the slots

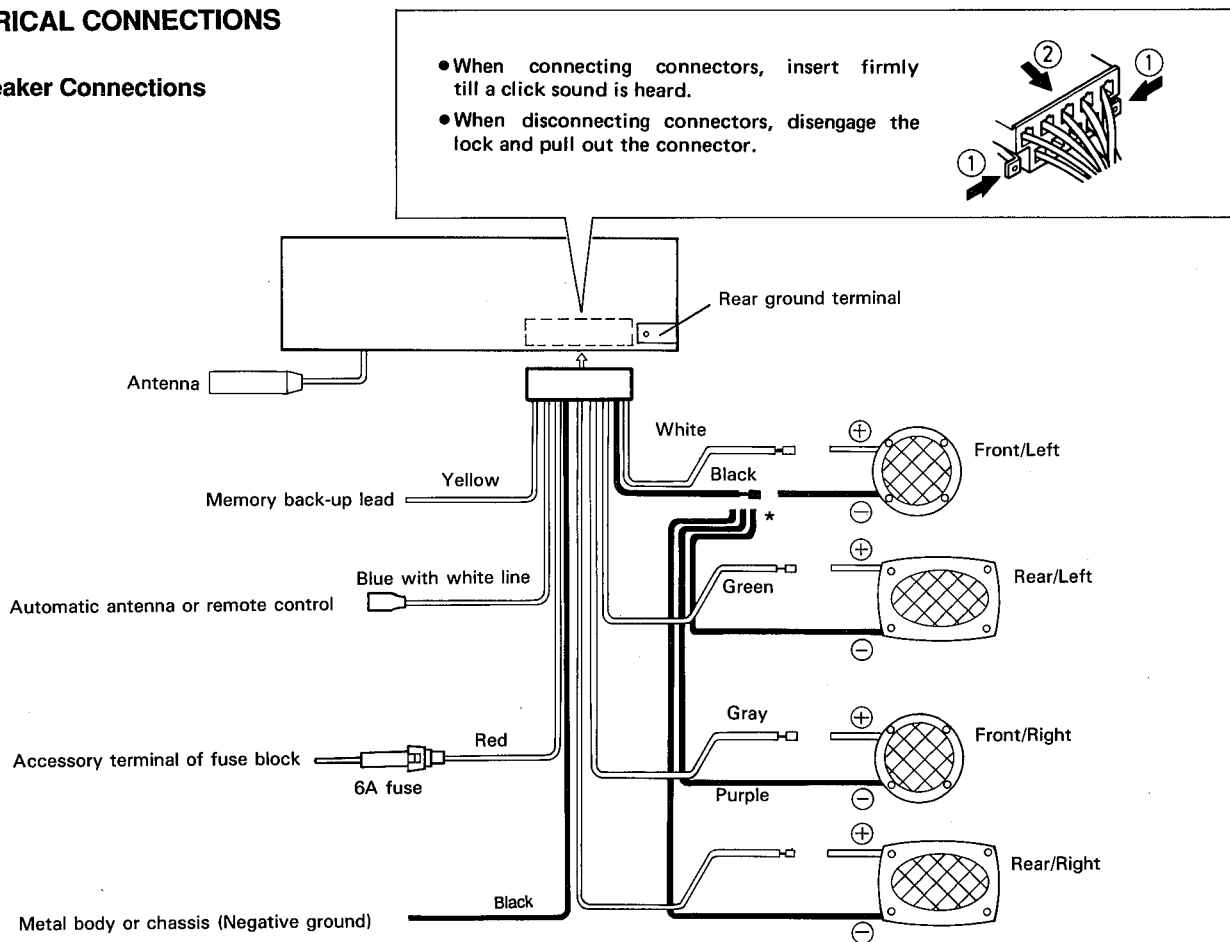


- Align the flat parts

- Make sure to assemble as shown, or the knobs will not fit.

ELECTRICAL CONNECTIONS

A. 4-Speaker Connections



* Connect the \ominus terminal of each speaker to the black lead.

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit. If you are not sure how to install this unit correctly, have it installed by a qualified technician.

Note:

This unit is designed for a 12-volt DC negative ground. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC car audio dealers.

Cautions:

1. Don't connect speaker leads to the metal body or chassis.
2. When not using the automatic antenna, cover the terminal with insulating tape to prevent the blue with white line (REMOTE) lead from shorting.

- Be sure to ground this unit to the car's chassis.

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. Automatic Antenna Connections

To use the automatic antenna, connect its remote lead (blue with white line) terminal. For details of installation, see the automatic antenna's Instruction Manual.

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 FADER 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-speakers system**
Turn the FADER control fully in the direction corresponding to the terminals used.

4 Location of Main Parts

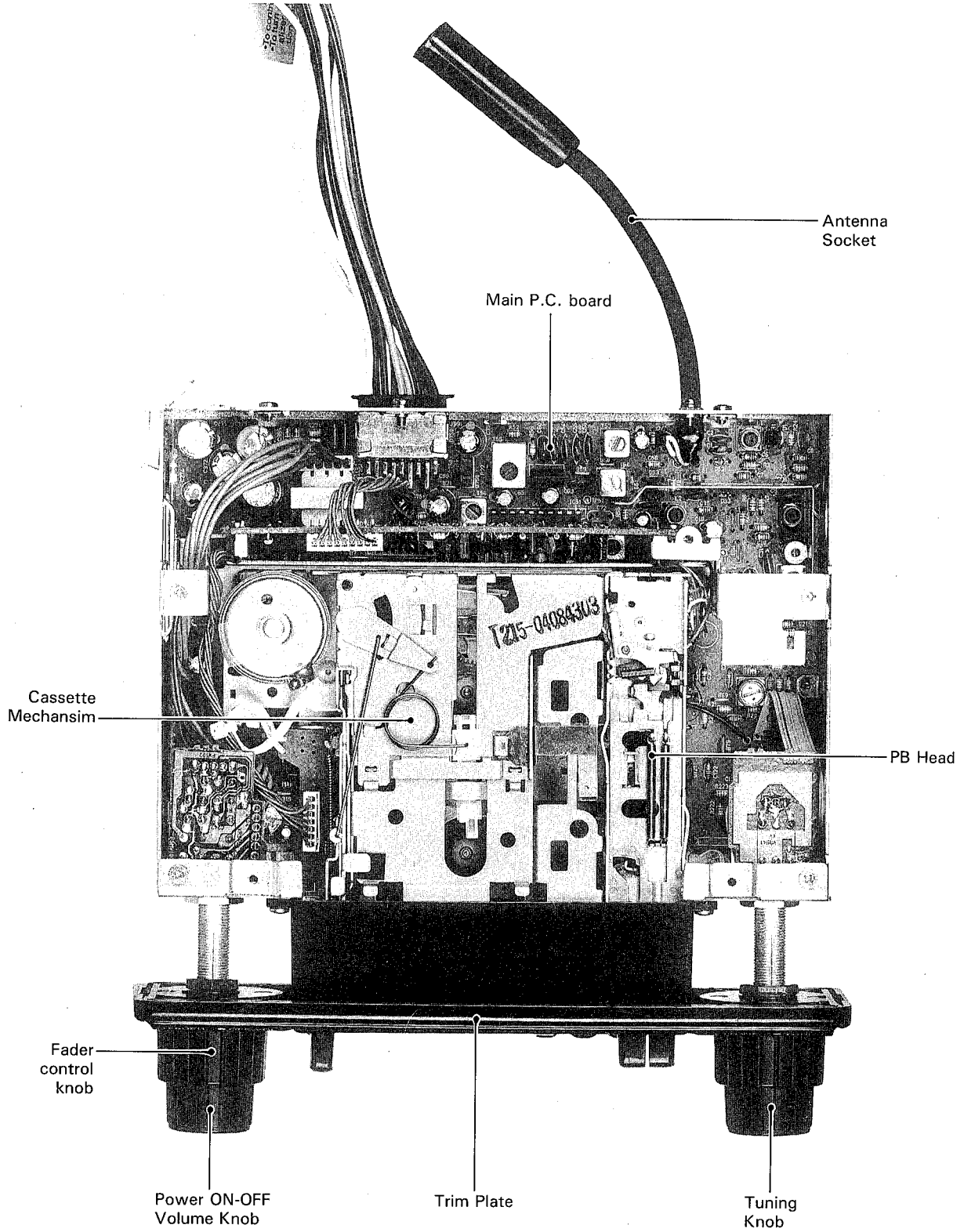


Fig. 4-1

5 Removal of Main Parts

■ General Section

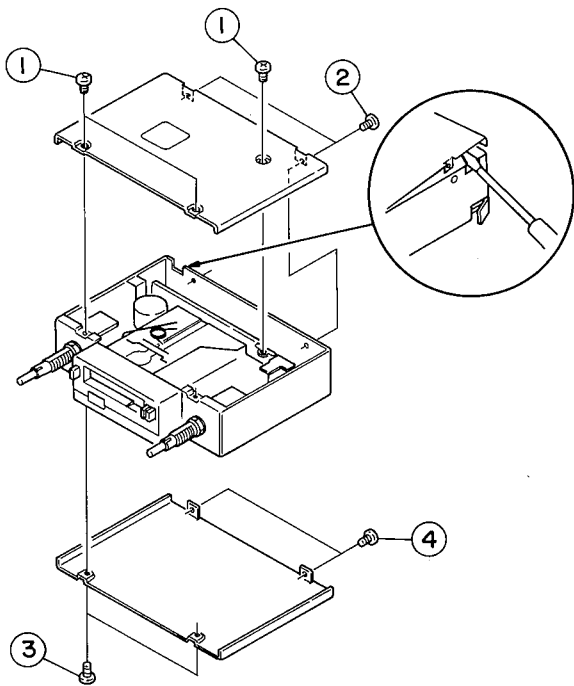


Fig. 5-1

■ Top Cover and Bottom Cover (refer to Fig. 5-1)

1. Remove five screws ① and ② retaining the top cover.
2. As shown in the figure, insert a screwdriver in the Spaces between the main unit and the Top Covers to release the locks.
3. Remove four screws ③, ④ retaining the bottom cover.
4. All the same to 2), insert a screwdriver in the Spaces between the main unit and the bottom cover to release the locks.

■ Nose Piece Assembly (Fig. 5-2)

1. Remove four screws ⑤ retaining the nose piece assembly from the front chassis.
2. Take out the nose piece assembly from the front chassis.

■ Volume/Balance/Fader assembly and TONE Tuning assembly (Fig. 5-2)

1. Remove the nut from the both side volume shaft.
2. Take out the volume assembly from the front chassis.

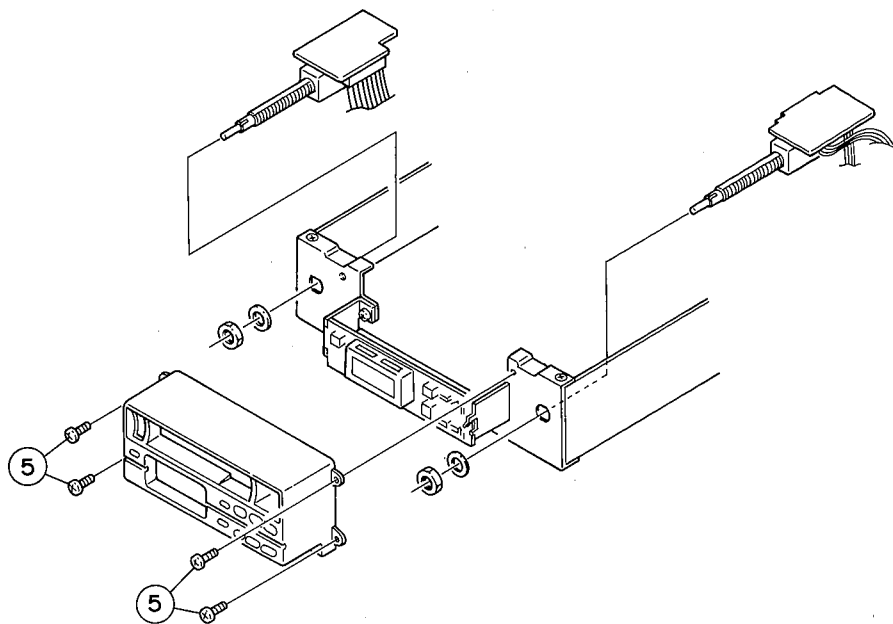


Fig. 5-2

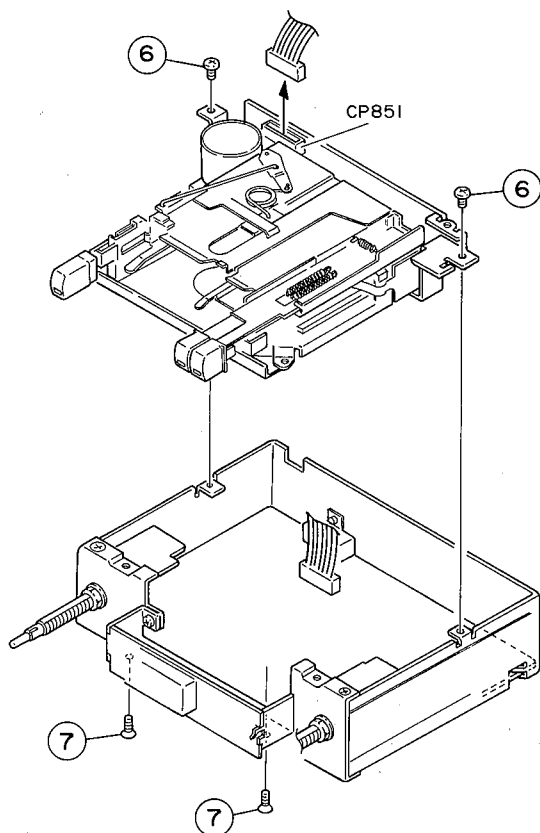


Fig. 5-3

■ Cassette Mechanism Assembly

1. Remove two screws (6) retaining the cassette mechanism assembly from the both side chassis.
2. Turn upside down the unit.
3. Remove two screws (7) retaining the cassette mechanism assembly from the front chassis.
4. Pull out the 9 PIN connector from the CP851.

■ Head

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

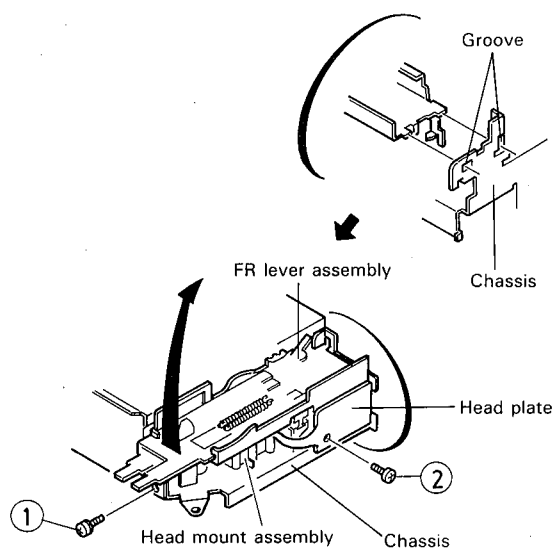


Fig. 5-4

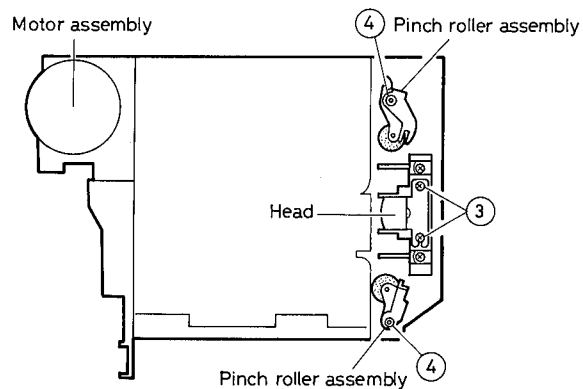


Fig. 5-5

■ Motor Assembly

Remove two screws (5) retaining the motor.

Note: This operation is facilitated by leaving the belt hooked on to one of the chassis protrusions.

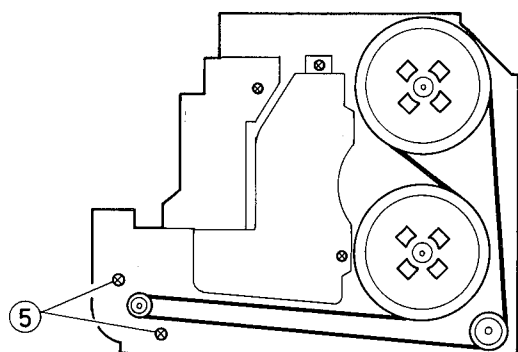


Fig. 5-6

■ Belt

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

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

6 Main Adjustment

■ Equipment and measuring instruments used for adjustments

- Electronic voltmeter
- Audio frequency oscillator
- Attenuator (impedance 600 Ω)
- Wow-flutter meter
- Frequency counter
- Torque testing Cassette gauge
TW-2111A (FWD PLAY)
TW-2121A (REV PLAY)
- CTG-N (FF, REW)
- Mirror tape
- AM Standard Signal Generator
- FM Standard Signal Generator
- Alignment Tape
VTT703L, VTT721, VTT712, VTT736
- EXT415-KIT: Extension Cord (Use for operation of Mechanism)

■ Condition for Measurement

Power Supply:	DC 14.4 V (Reduced voltage 10.5 V)	Fader:	Centre
Load Impedance:	Speaker 4 W (Rear connect 2 speakers)	Balance:	Centre
		Tone:	Maximum

■ Standard Volume Position

At standard condition for measurement, output level to be adjusted to 2.0 V with test tape VTT724 or TMT 7063MIX.

■ Tuner Section Adjustment

(The tuner pack is non-adjusting)

- Manual Tuning Up/Down Frequency

FM 0.2 MHz Step

AM 10 kHz Step

- Setting of Reference Frequency

FM ... 400 Hz, 22.5 kHz Deviation

FM STEREO ... 1 kHz, 67.5 kHz Deviation Pilot Signal 7.5 kHz

AM ... 400 Hz, 30% Modulation

Output level ... 0 dB = 1 μ V, 50 Ω /Open terminal

Dummy Loads

Exclusive dummy for AM, FM should be used. When FM dummy load is used, 6 dB loss occurs between SSG output and antenna input. It is not necessary to consider the 6 dB loss since direct reading figures are used in this working standard.

- Reference Output of SSG

FM ... 66 dB μ V, at 97.9 MHz

AM ... 74 dB μ V, at 1000 kHz

- Preset Memory of Initialize

Band	Preset Memory				
	M1	M2	M3	M4	M5
FM (MHz)	87.5	89.9	97.9	105.9	107.9
AM (kHz)	530	600	1000	1500	1710

■ Location of Adjustments

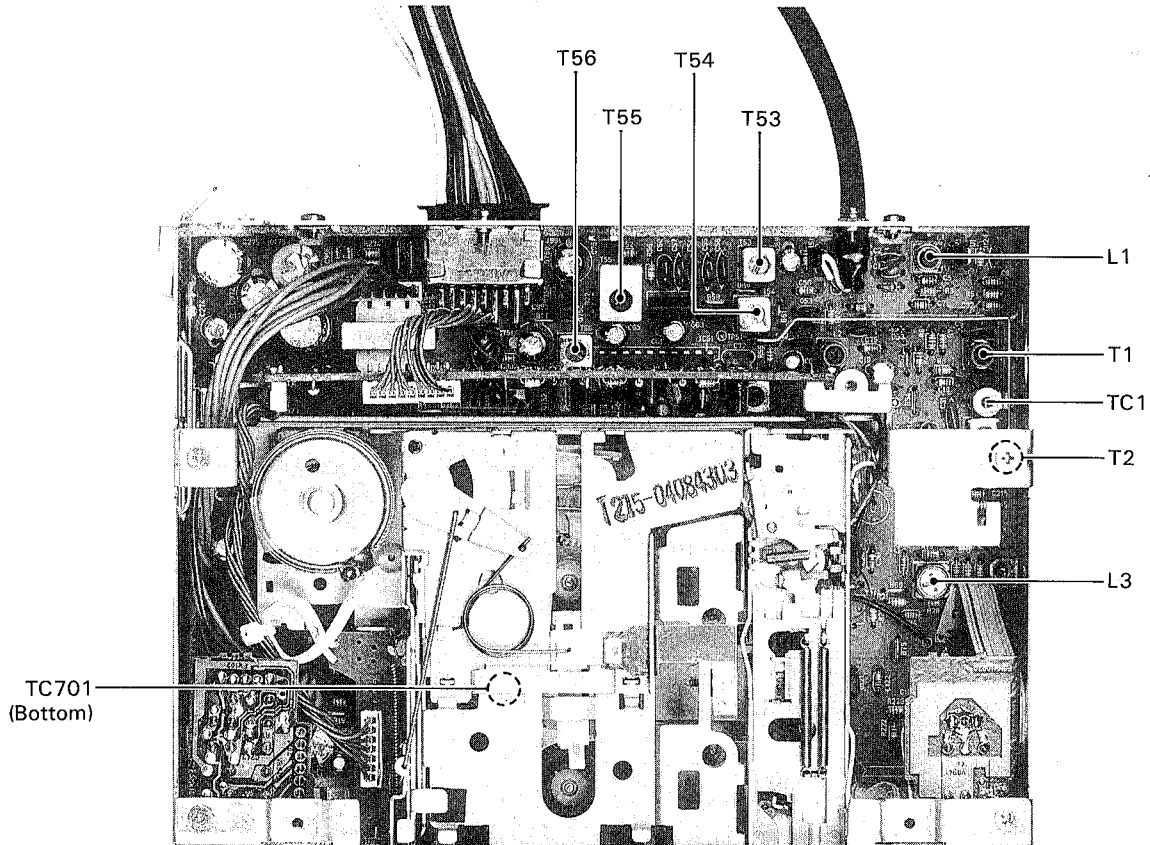


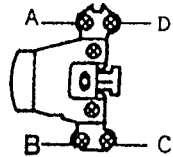
Fig. 6-1

■ Order of Adjustment

Order	Item	Measuring Conditions and Main Adjustments	Standard Value	Adjusting Point
1	Reference Frequency Adjustment Test point: TP701 (PIN 20 of IC51)	In the AM reception mode, adjust TC701 so that the frequency counter reading of PIN 20 of IC2 is 2160 ± 0.012 kHz when 1710 kHz signal is received.	Add 1710 kHz : 2160 ± 0.012 kHz Add 1620 kHz: 2070 ± 0.012 kHz	TC701
2	AM voltage Adjustment Test point: TP51 (R55)	<ol style="list-style-type: none"> 1. Connect a digital tester, with on in ternal resistance of $10\text{ M}\Omega$ set for voltage measurement to the test point. 2. Set the frequency of the receiver to 530 kHz and adjust the coil L52 so that the digital tester reading is in the standard value. 3. Now change the frequency to 1710 kHz and adjust trimmer TC51 so that the digital tester reading is in the standard value. 4. Return the frequency to 530 kHz and adjust the voltage deviation so that it is within the standard value. 5. Set to 1710 kHz again and repeat this adjustment. 6. Repeat adjustments 4. and 5. a few times so that it is in the standard value at both frequencies. 	<p>1.18 ~ 1.22 V</p> <p>7.9 ~ 8.1 V</p>	<p>L52</p> <p>TC51</p>

Order	Item	Measuring Conditions and Main Adjustments	Standard Value	Adjusting Point
3	AM Antenna Adjustment	<ol style="list-style-type: none"> 1. Tune to 600 kHz and observe the speaker out. Adjust in the sequence T53→T54→T53→T54 repeatedly so that the waveform is maximum. 2. Tune to 1500 kHz and observe the speaker out. Adjust TC51 so that the waveform is maximum. 3. Repeat these two adjustments so that 600 kHz tracking and 1500 kHz tracking are both optimized. 	Waveform maximum	T53 T54 TC51
4	AM IF adjustment	Tune to 600 kHz and adjust T55, T56 so that the waveform of the speaker out is maximized.	Waveform Maximum	T55, T56
5	FM voltage adjustment Testpoint: TP11 (R11)	<p><Condition> FM107.9 MHz Adjust L2 so that the 7.75~7.85 V on preset 5.</p>	TP11: 7.75~7.85 V	L2
6	FM 0 V adjustment SG: 97.9 MHz 66 dB non modulation Test point TP1/R22	Adjust L3 so that the -0.01~+0.01 V at between R22 leads.	-0.01~0.01 V	L3
7	FM antenna adjustment	<ol style="list-style-type: none"> 1. Tune to 107.9 MHz and observe the speaker out. Adjust in sequence TC1 so that the waveform is maximum. 2. Tune to 87.5 MHz and observe the speaker out. Adjust L1 so that the waveform is maximum. 	Waveform maximum	TC1 L1, T1
8	FM IF adjustment	<p><Condition> FM99.9 MHz Weak signal Tune to 97.9 MHz and Adjust T2 so that the waveform of the speaker out is maximized.</p>	Waveform maximum	T2

■ Mechanism and Amplifier Sections

Item	Measuring Conditions and Main Adjustments	Standard Value	Adjusting Point
Head azimuth adjustment	<p><Conditions> 1. Test tape: VTT703L</p> <p><Adjustments> 1. The head azimuth need not be aligned. However, it needs to be confirmed during FA process. 2. If the head azimuth is not aligned to the maximum or it is out of specification, adjustment will be necessary. 3. Adjustment point:</p> <p>Step 1 Screw A: It has been aligned by the supplier, so do not re-align this screw.</p> <p>Step 2 Screw B: It has to be aligned to the maximum when at Forward Play Mode, but it must not be aligned when at Reverse Play Mode.</p> <p>Step 3 Screw C: It has to be aligned to the maximum when at Reverse Play Mode, but it must not be aligned when at Forward Play Mode.</p> <p>4. Repeat adjustments step 2 and step 3 until Forward and Reverse mode gains are both optimised. 5. After alignment, no bonding is necessary to fasten the screws.</p>	Within -4 dB from the peak	
Tape speed and wow-flutter confirmation	<p><Conditions> 1. Test tape: VTT712 at tape end</p> <p><Confirmation> 1. Connect a wow-flutter meter to LINE OUT terminals. 2. Play the test tape VTT712 at tape end. 3. Check to see if the reading of the meter is within 3015 ~ 3045 Hz (FWD/REV), less than 0.35% (JIS RMS).</p>	<p>Tape speed (FWD/REV) 3015 ~ 3045 Hz</p> <p>Wow-flutter 0.35% (JIS RMS)</p>	In case of Spec. out, adjust the motor with a built-in volume resistor.
Playback frequency response confirmation	<p><Condition> 1. Test tape: VTT724 2. : VTT736</p> <p><Confirmation> 1. Play test tape VTT724, then set to volume position at 2 V. 2. Play test tape VTT736. 3. Confirm 1 kHz/125 Hz: 0±3 dB 1 kHz/8 kHz: 0±3 dB Loudness effect should be checked by turning volume.</p>	<p>1 kHz/125 Hz: 0±3 dB</p> <p>1 kHz/8 kHz: 0±3 dB</p>	—
Maximum output power confirmation	<p><Conditions> Test tape: VTT721 Knob position: Volume max., tone max.</p> <p><Confirmation> 1. Confirm both the front and rear speaker output to be more than 5.3 V 2. Confirm less than 5 A of current consumed at above condition. 3. Sound leakage should not occur at volume minimum. 4. Oscillation should not occur at tone minimum.</p>	<p>Front/rear speakerout more than 5.3 V</p> <p>Consume current less than 5A</p>	

7 Block Diagram

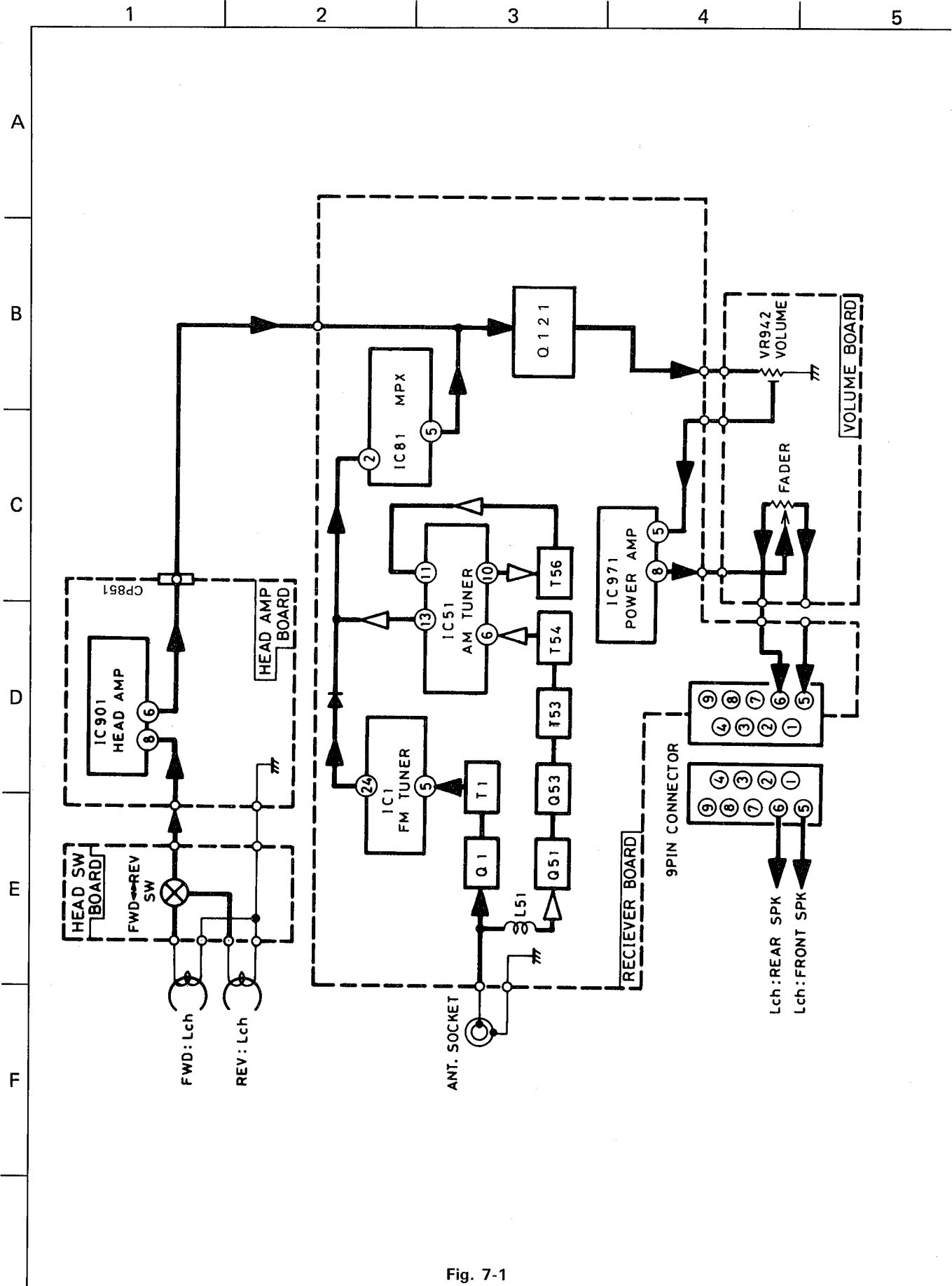
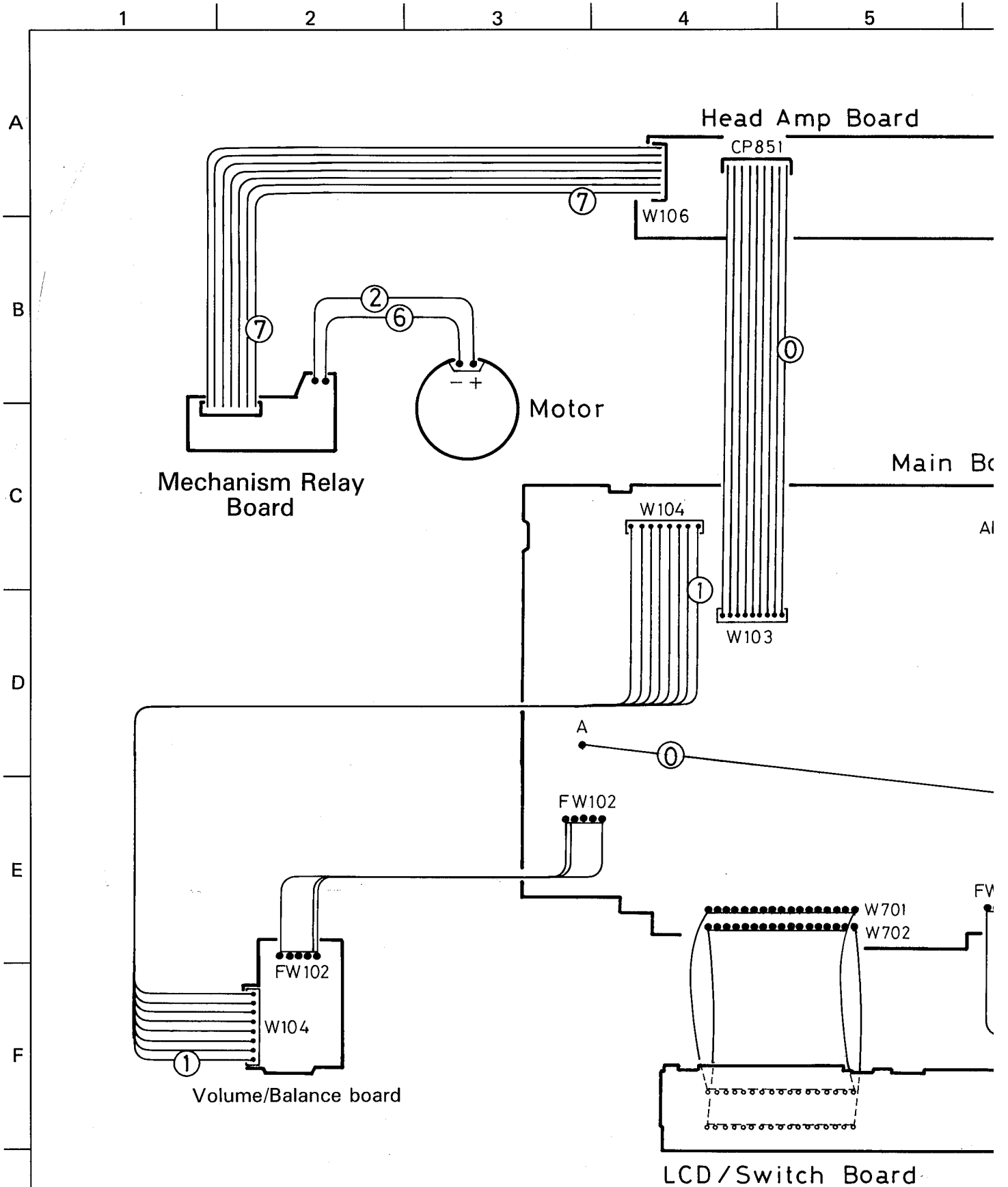
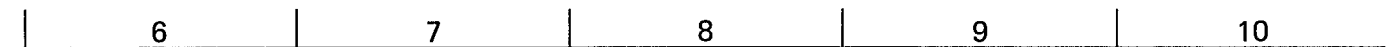


Fig. 7-1

8 Wiring Connections





Color codes are shown below.

- 1 Brown
- 2 Red
- 3 Orange
- 4 Yellow
- 5 Green
- 6 Blue
- 7 Violet
- 8 Gray
- 9 White
- 0 Black
- D Pink
- C Light Blue

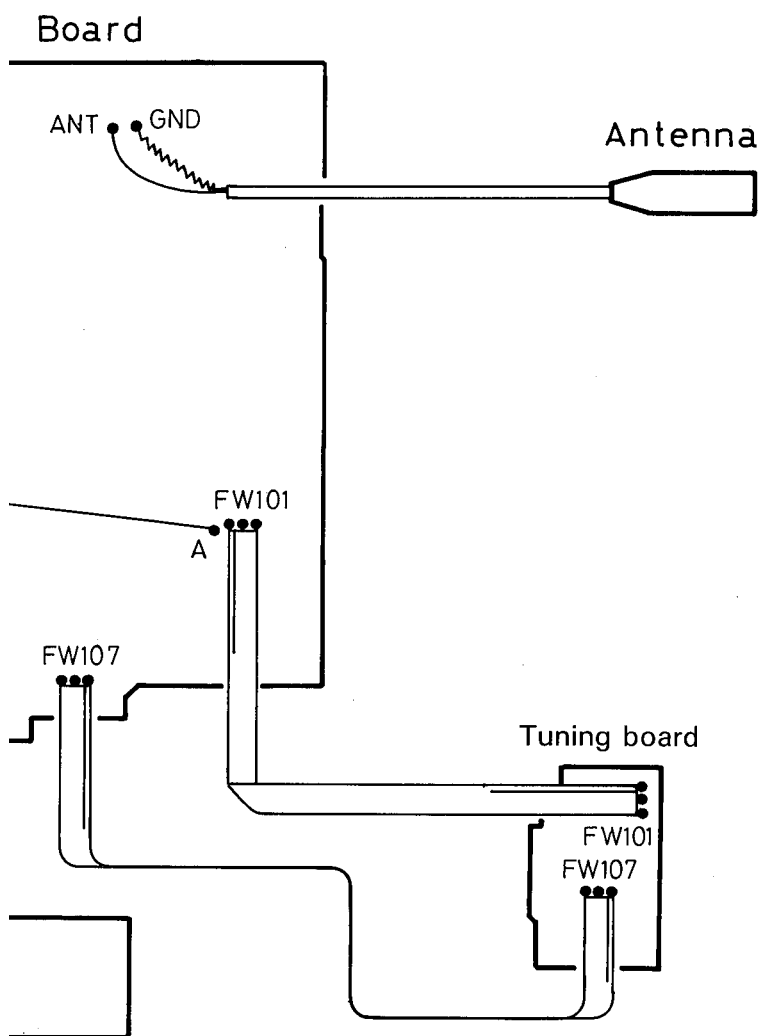
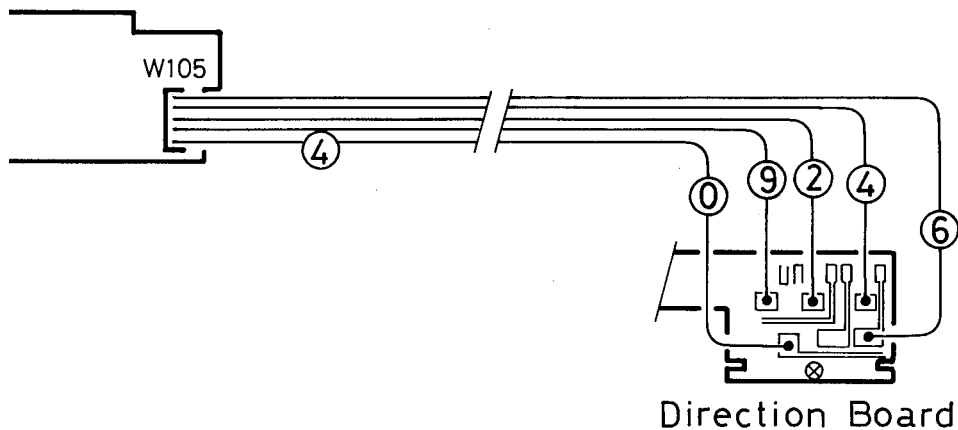
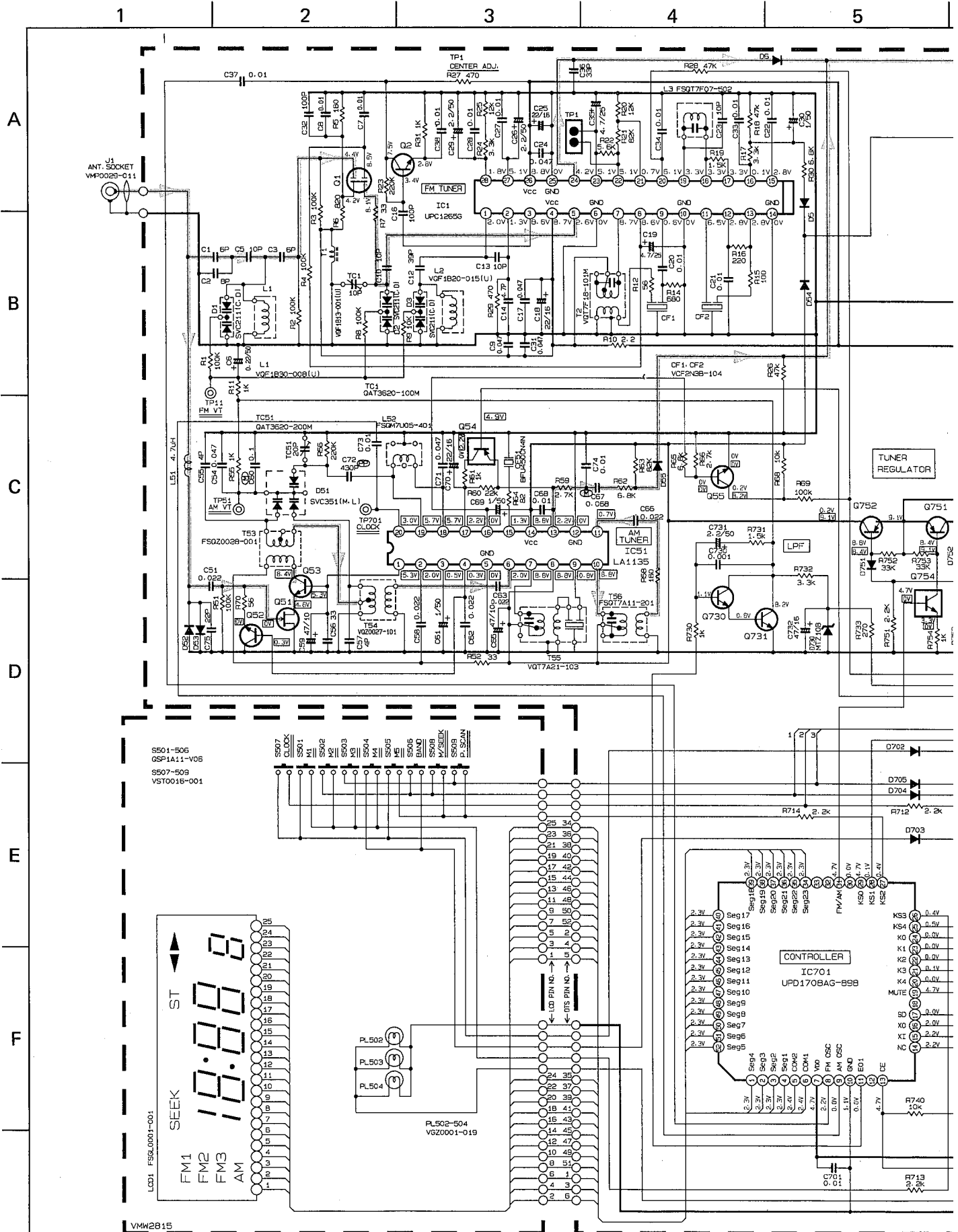
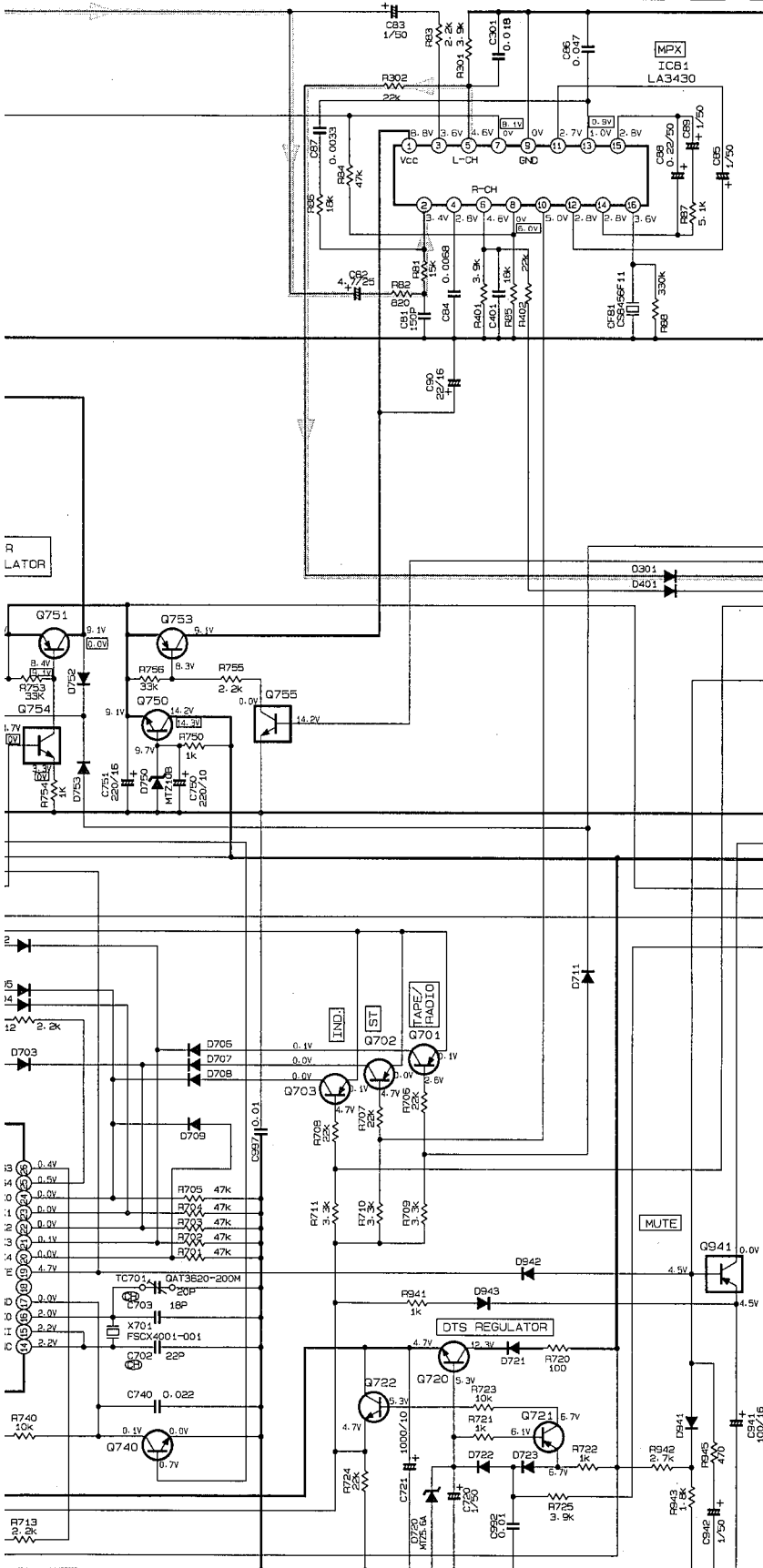


Fig. 8-1

9 Standard Schematic Diagram





2SA681(G.R)	Q751
2SA933S(R.S)	Q701, Q702, Q703, Q721, Q752, Q753,
2SC1740S(R.S)	Q53, Q55, Q722, Q730, Q731, Q740, Q720,
2SD439(E.F)	Q750,
2SC2839(E)	Q2, Q52,
2SK427(S.T.U)	Q51,
3SK122(M.L)	Q1,
DTC114	Q704, Q754,
DTC144	Q755,
DTA114	Q54,
DTA144	Q941,
1SS133	Q701, Q702, Q703, Q704, Q705, Q705- Q707, Q708, Q709, Q710, Q711, Q721, Q722, Q723, Q751, Q752, Q753, Q5, Q6, Q62, Q63, Q64, Q65, Q301, Q401, Q941, Q942, Q943,

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAQLT METER WITHOUT INPUT SIGNAL. CONDITION — J ... FM MODE. □ AM MODE. () TAPE MODE.
 2. UNLESS OTHERWISE SPECIFIED. ALL RESISTORS ARE 1/8W ±5% CARBON RESISTOR. ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN #F(PpF). ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(#F)/RATED VOLTAGE (V). ALL DIODES ARE 1SS133
- Ⓢ POLYPROPYLENE CAPACITOR
Ⓣ 50V ±5% MYLAR CAPACITOR OR 50V 15% THIN FILM CAPACITOR

FSMW1002A

Fig. 9-1

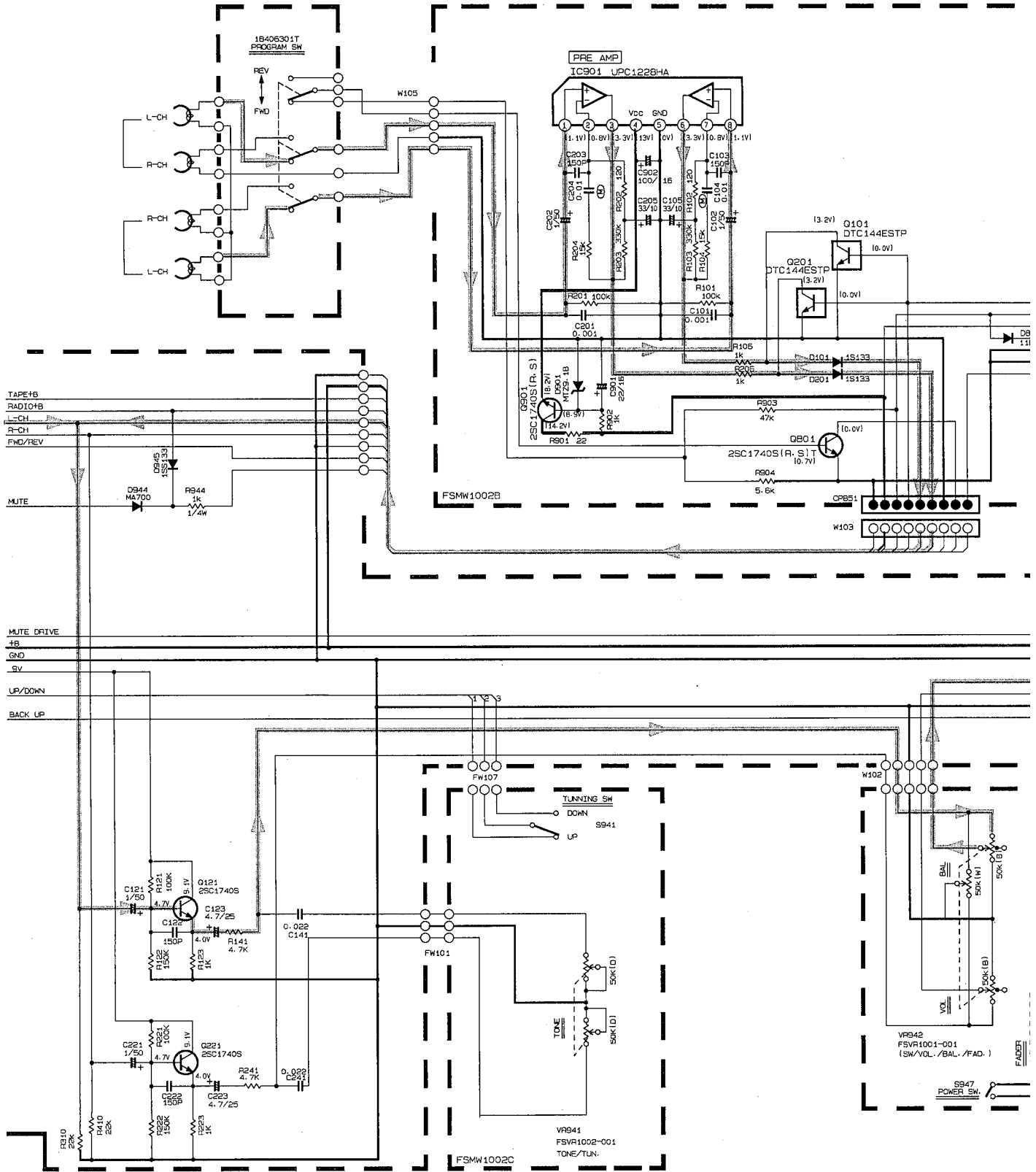


Fig. 9-2

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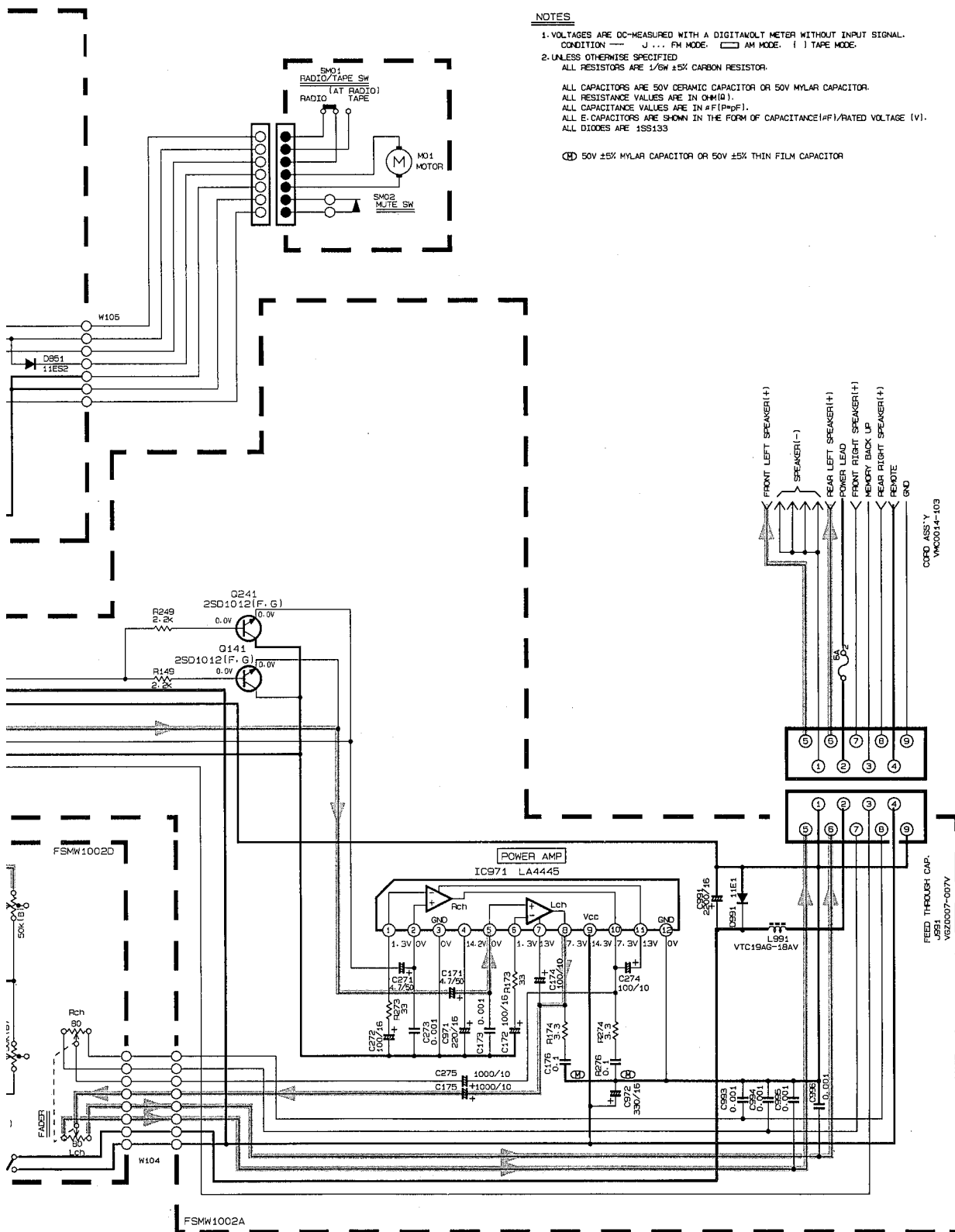
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAVOLT METER WITHOUT INPUT SIGNAL.
 CONDITION — J... FM MODE; □ AM MODE; | | TAPE MODE.

2. UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.

ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
 ALL RESISTANCE VALUES ARE IN OHM(Ω).
 ALL CAPACITANCE VALUES ARE IN P(F)P(F).
 ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE|P(F)|RATED VOLTAGE (V).
 ALL DIODES ARE 1SS133

Ⓢ 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR



A

B

C

D

E

F

⊕B LINE

▶ Playback Signal

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

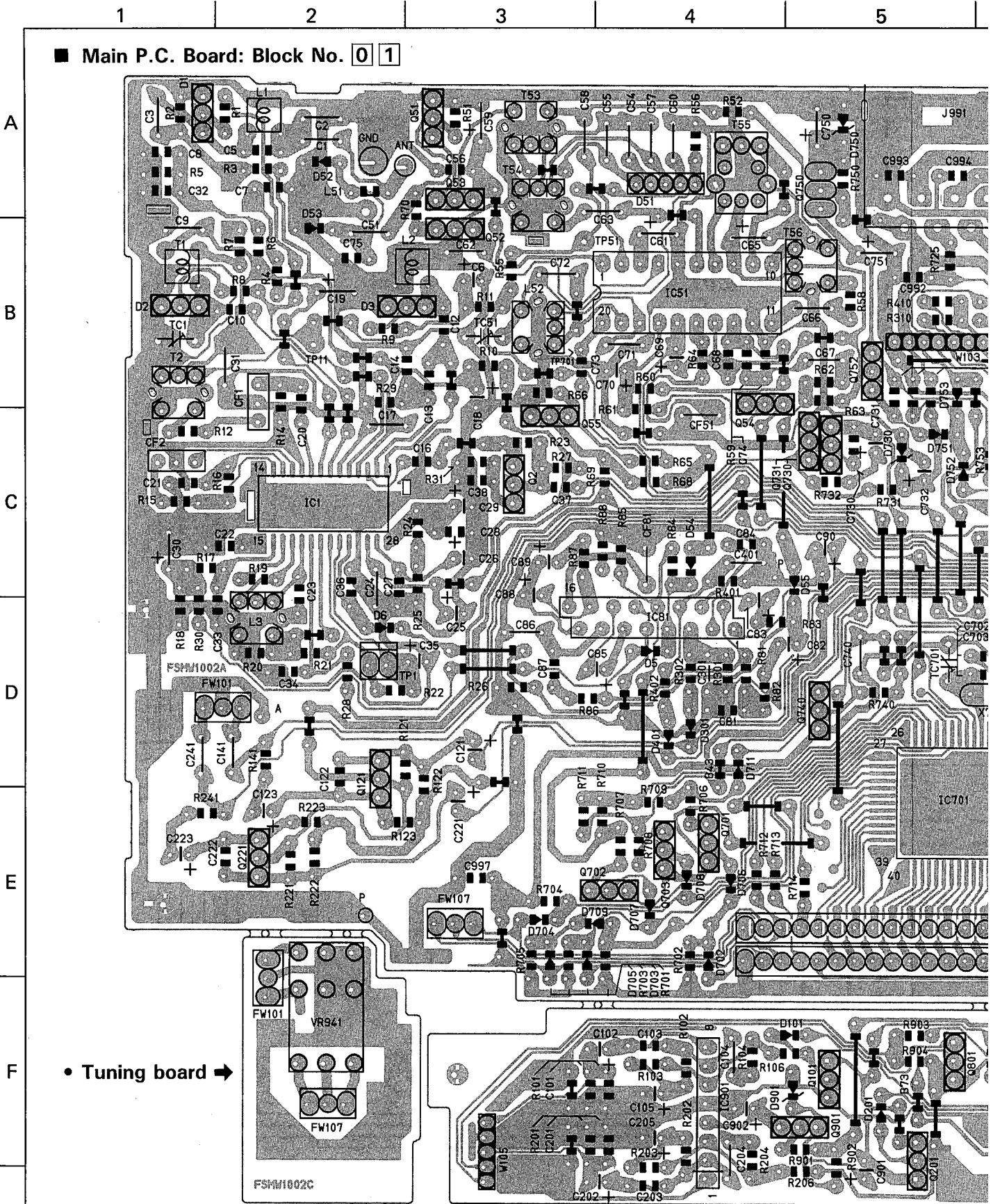


Fig. 10-1

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10

■ Operation Key P.C. Board
: Block No. 0 2

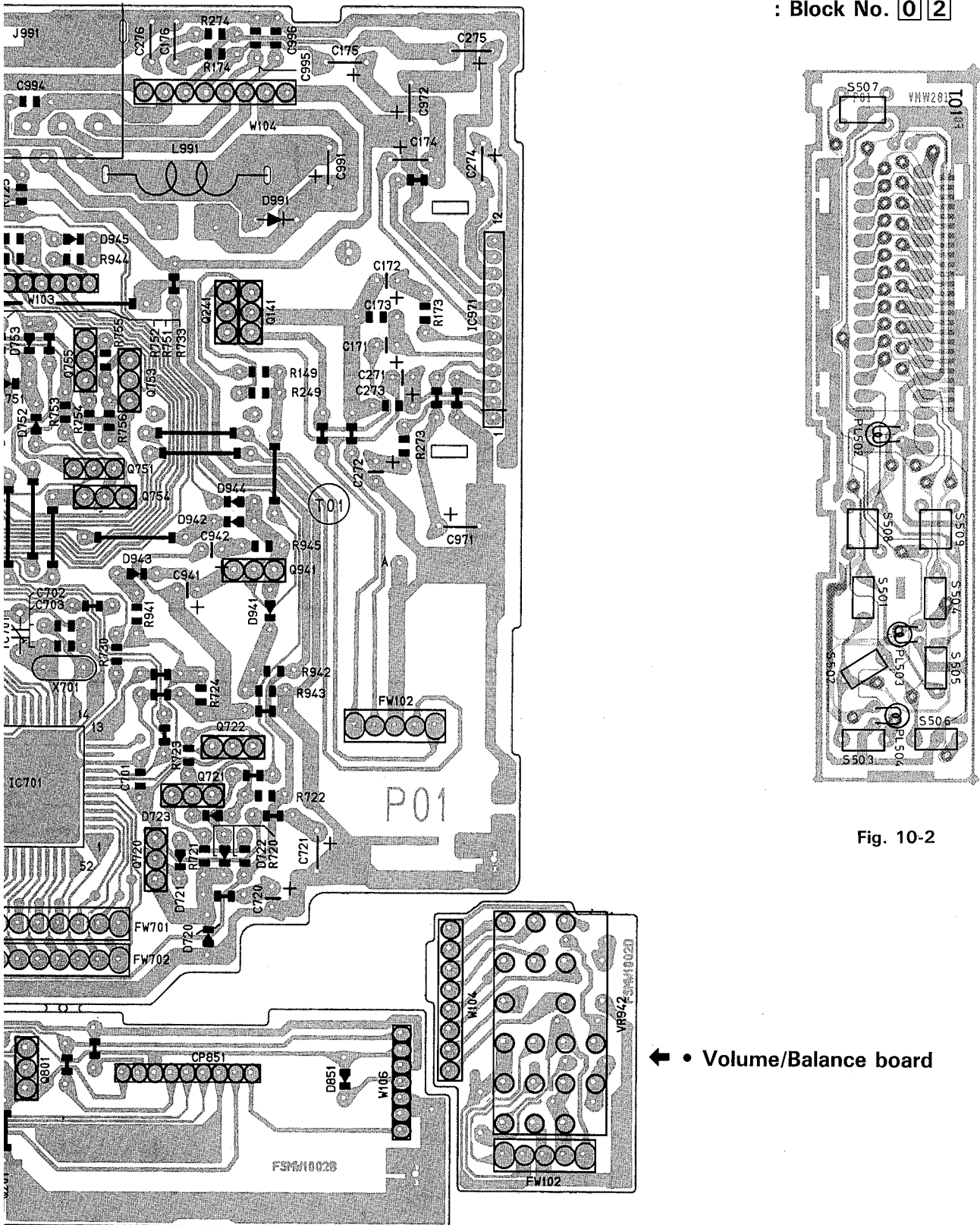


Fig. 10-2

• Head amplifier board

• Volume/Balance board

• Main P.C. Board Parts List

BLOCK NO. 01111111				BLOCK NO. 01111111					
REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 1	QCS31HJ-6R0Z	C-CAPACITOR	6.0PF 5% 50V		C 74	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V	
C 2	QCS31HJ-8R0Z	C-CAPACITOR	8.0PF 5% 50V		C 75	QCSB1HJ-220Y	C-CAPACITOR	22PF 5% 50V	
C 3	QCS31HJ-6R0Z	C-CAPACITOR	6.0PF 5% 50V		C 81	QCSB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
C 4	QCS31HJ-100	C-CAPACITOR	10PF 5% 50V		C 82	QEF1EM-475ZM	E-CAPACITOR	4.7MF 20% 25V	
C 5	QEF1EM-100	E-CAPACITOR	.010MF 20% 25V		C 83	QEF1EM-105ZM	E-CAPACITOR	1.0MF 20% 50V	
C 6	QEF1EM-224ZM	E-CAPACITOR	.022MF 10% 25V		C 84	QCVB1CM-103Y	C-CAPACITOR	6800PF 20% 16V	
C 7	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 85	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V	
C 8	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 86	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V	
C 9	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		C 87	QCVB1CM-332Y	C-CAPACITOR	3300PF 20% 16V	
C 10	QCS11HJ-100	C-CAPACITOR	10PF 5% 50V		C 88	QEF1EM-224ZM	E-CAPACITOR	.22MF 20% 50V	
C 11	QCSB1HJ-390Y	C-CAPACITOR	39PF 5% 50V		C 89	QEF1EM-105ZM	E-CAPACITOR	1.0MF 20% 50V	
C 12	QCSB1HJ-100	C-CAPACITOR	10PF 5% 50V		C 90	QEF1EM-226ZM	E-CAPACITOR	22MF 20% 16V	
C 13	QCS11HJ-100	C-CAPACITOR	10PF 5% 50V		C 101	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 14	QCSB1HK-4R7Y	C-CAPACITOR	4.7PF 10% 50V		C 102	QEF1EM-105ZM	E-CAPACITOR	1.0MF 20% 50V	
C 15	QCSB1HK-101Y	C-CAPACITOR	100PF 10% 50V		C 103	QCB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
C 16	QCB1HK-101Y	C-CAPACITOR	100PF 10% 50V		C 104	QFV41HJ-103ZM	TF-CAPACITOR	.010MF 5% 50V	
C 17	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		C 105	QEF1EM-105VM	E-CAPACITOR	33MF 20% 10V	
C 18	QERF1EM-226ZM	E-CAPACITOR	.047MF 20% 25V		C 121	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V	
C 19	QETC1EM-475ZM	E-CAPACITOR	4.7MF 20% 25V		C 122	QCB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
C 20	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 123	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V	
C 21	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 141	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V	
C 22	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 171	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V	
C 23	QCT30UJ-100Y	C-CAPACITOR	10PF 5% 50V		C 172	QEF1EM-107ZM	E-CAPACITOR	100MF 20% 16V	
C 24	QCC11EK-473V	C-CAPACITOR	.047MF 20% 25V		C 173	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 25	QEF1EM-226ZM	E-CAPACITOR	.047MF 20% 25V		C 174	QETC1EM-107ZM	E-CAPACITOR	100MF 20% 10V	
C 26	QEF1EM-225ZM	E-CAPACITOR	2.2MF 20% 50V		C 175	QETC1EM-108ZM	E-CAPACITOR	1000MF 20% 10V	
C 27	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 176	QFV41HJ-224	TF-CAPACITOR	.22MF 5% 50V	
C 28	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 201	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 29	QEF1EM-225ZM	E-CAPACITOR	2.2MF 20% 50V		C 202	QEF1EM-105ZM	E-CAPACITOR	1.0MF 20% 50V	
C 30	QETC1EM-105Z	E-CAPACITOR	1.0MF 20% 50V		C 203	QCB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
C 31	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		C 204	QFV41HJ-103ZM	TF-CAPACITOR	.010MF 5% 50V	
C 32	QCB1HK-101Y	C-CAPACITOR	100PF 10% 50V		C 205	QEF1EM-336ZM	E-CAPACITOR	33MF 20% 10V	
C 33	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 221	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V	
C 34	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 222	QCB1HK-151Y	C-CAPACITOR	150PF 10% 50V	
C 35	QEF1EM-475ZM	E-CAPACITOR	4.7MF 20% 25V		C 223	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V	
C 36	QCS11HJ-330	C-CAPACITOR	33PF 5% 50V		C 241	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V	
C 37	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 271	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V	
C 38	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V		C 272	QEF1EM-107ZM	E-CAPACITOR	100MF 20% 16V	
C 39	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V		C 273	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 40	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		C 274	QETC1EM-107ZM	E-CAPACITOR	100MF 20% 10V	
C 41	QCS31HJ-4R0Z	C-CAPACITOR	4.0PF 5% 50V		C 275	QETC1EM-108ZM	E-CAPACITOR	1000MF 20% 10V	
C 42	QCS31HJ-4R0Z	C-CAPACITOR	4.0PF 5% 50V		C 276	QFV41HJ-224	TF-CAPACITOR	.22MF 5% 50V	
C 43	QCS31HJ-4R0Z	C-CAPACITOR	4.0PF 5% 50V		C 301	QCC11EK-183ZV	C-CAPACITOR	.018MF 10% 25V	
C 44	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V		C 401	QCC11EK-183ZV	C-CAPACITOR	.018MF 10% 25V	
C 45	QETC1EM-476Z	E-CAPACITOR	4.7MF 20% 10V		C 701	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V	
C 46	QFV41HJ-104ZM	TF-CAPACITOR	1.0MF 5% 50V		C 702	QCT105CH-220	C-CAPACITOR	22PF 5% 50V	
C 47	QETC1EM-105Z	E-CAPACITOR	1.0MF 20% 50V		C 703	QCT30CH-150Y	C-CAPACITOR	15PF 5% 50V	
C 48	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V		C 720	QEF1EM-105ZM	E-CAPACITOR	1.0MF 20% 50V	
C 49	QETC1EM-476Z	E-CAPACITOR	4.7MF 20% 10V		C 721	QETC1EM-108ZM	E-CAPACITOR	1000MF 20% 10V	
C 50	QFV41HJ-104ZM	TF-CAPACITOR	1.0MF 5% 50V		C 730	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 51	QETC1EM-105Z	E-CAPACITOR	1.0MF 20% 50V		C 731	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V	
C 52	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V		C 732	QER41CM-476M	E-CAPACITOR	47MF 20% 16V	
C 53	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		C 740	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V	
C 54	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V		C 750	QETA1CM-227	E-CAPACITOR	220MF 20% 16V	
C 55	QCS31HJ-4R0Z	C-CAPACITOR	4.0PF 5% 50V		C 751	QETA1CM-227	E-CAPACITOR	220MF 20% 16V	
C 56	QCS11HJ-330	C-CAPACITOR	33PF 5% 50V						
C 57	QCS31HJ-4R0Z	C-CAPACITOR	4.0PF 5% 50V						
C 58	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V						
C 59	QETC1EM-476Z	E-CAPACITOR	4.7MF 20% 10V						
C 60	QFV41HJ-104ZM	TF-CAPACITOR	1.0MF 5% 50V						
C 61	QETC1EM-105Z	E-CAPACITOR	1.0MF 20% 50V						
C 62	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V						
C 63	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V						
C 64	QETC1EM-476Z	E-CAPACITOR	4.7MF 20% 10V						
C 65	QETC1EM-476Z	E-CAPACITOR	4.7MF 20% 10V						
C 66	QCC11EK-223ZV	C-CAPACITOR	.022MF 10% 25V						
C 67	QFV41HJ-104ZM	TF-CAPACITOR	1.0MF 5% 50V						
C 68	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V						
C 69	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V						
C 70	QERF1EM-226ZM	E-CAPACITOR	2.2MF 20% 16V						
C 71	QCC11EM-473V	C-CAPACITOR	.047MF 20% 25V						
C 72	QF642AJ-431	PP-CAPACITOR	430PF 5% 100V						
C 73	QCVB1CM-103Y	C-CAPACITOR	.010MF 20% 16V						

BLOCK NO. 01111111

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D 901	QEK1C1M-226ZM	E-CAPACITOR	22NF 20% 16V	
C 902	QEK1C1M-107ZN	E-CAPACITOR	100MF 20% 16V	
C 941	QEK1C1M-107ZN	E-CAPACITOR	100MF 20% 16V	
C 942	QEK1HM-105ZM	E-CAPACITOR	1.0MF 20% 50V	
C 971	QET1C1M-227	E-CAPACITOR	220MF 20% 16V	
C 972	QET1C1M-337ZM	E-CAPACITOR	330MF 20% 16V	
C 991	QET1C1M-228	E-CAPACITOR	220MF 20% 16V	
C 992	QCVB1C1M-103Y	C-CAPACITOR	.010MF 20% 16V	
C 993	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 994	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 995	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 996	QCB1HK-102Y	C-CAPACITOR	1000PF 10% 50V	
C 997	QCVB1C1M-103Y	C-CAPACITOR	.010MF 20% 16V	
CF 1	VCF2N3B-104Z	C-FILTER		
CF 2	VCF2N3B-104Z	C-FILTER		
CF 51	BFU450C4N	C-FILTER		
CF 81	CSB456F11	CERA LOCK		
CP851	VMC0064-009	CONNECTOR		
D 1	SVC211(C,D)	V.C-DIODE I/M		
D 2	SVC211(C,D)	V.C-DIODE I/M		
D 3	SVC211(C,D)	V.C-DIODE I/M		
D 5	1SS133	DIODE I/M		
D 6	1SS133	DIODE I/M		
D 51	SVC351(L,M,W)	V.C-DIODE		
D 52	1SS133	DIODE I/M		
D 53	1SS133	DIODE I/M		
D 54	1SS133	DIODE I/M		
D 55	1SS133	DIODE I/M		
D 101	1SS133	DIODE I/M		
D 201	1SS133	DIODE I/M		
D 301	1SS133	DIODE I/M		
D 401	1SS133	DIODE I/M		
D 702	1SS133	DIODE I/M		
D 703	1SS133	DIODE I/M		
D 704	1SS133	DIODE I/M		
D 705	1SS133	DIODE I/M		
D 706	1SS133	DIODE I/M		
D 707	1SS133	DIODE I/M		
D 708	1SS133	DIODE I/M		
D 709	1SS133	DIODE I/M		
D 711	1SS133	DIODE I/M		
D 720	MTZ5.6A	Z DIODE		
D 721	1SS133	DIODE I/M		
D 722	1SS133	DIODE I/M		
D 723	1SS133	DIODE I/M		
D 730	MTZ10B	Z DIODE		
D 751	1SS133	DIODE I/M		
D 752	1SS133	DIODE I/M		
D 753	1SS133	DIODE I/M		
D 851	11ES2	DIODE		
D 901	MTZ9.1B	Z DIODE		
D 941	1SS133	DIODE I/M		
D 942	1SS133	DIODE I/M		
D 943	1SS133	DIODE I/M		

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D 944	MA700A	DIODE I/M		
D 945	1SS133	DIODE I/M		
D 991	11E1	DIODE I/M		
IC 1	UPC1265G	I.C.		
IC 51	LA1135	I.C.		
IC 81	LA3430	I.C.		
IC701	UPD1708AG-898	I.C.		
IC901	UPC1228HA	I.C.		
IC971	LA4445	I.C.		
J 991	VGZ0007-007V	FEED THRU CAP		
L 1	VQE1B30-009	ANT COIL		
L 2	VQE1B20-020	OSC COIL		
L 3	VQ17F07-502	I.F.T.		
L 51	VQP025K-4R7Y	INDUCTOR I/M		
L 52	VQM7U05-401	OSC COIL(CMW)		
L 991	VTC19AG-18AJ	CHOCK COIL		
LCD 1	LCD8254JNH	LCD		
Q 1	3SK85TF4	FET		
Q 2	2SC2839	TRANSISTOR I/M		
Q 51	2SK427	FET I/M		
Q 52	2SC2839	TRANSISTOR I/M		
Q 53	2SC1740S(R,S)	TRANSISTOR I/M		
Q 54	DTA114ES	TRANSISTOR I/M		
Q 55	2SC1740S(R,S)	TRANSISTOR I/M		
Q 101	DTC144ES	TRANSISTOR I/M		
Q 121	2SC1740S(R,S)	TRANSISTOR I/M		
Q 141	2SD1012	TRANSISTOR		
Q 201	DTC144ES	TRANSISTOR I/M		
Q 221	2SC1740S(R,S)	TRANSISTOR I/M		
Q 241	2SD1012	TRANSISTOR		
Q 701	2SA933S(CRS)	TRANSISTOR I/M		
Q 702	2SA933S(CRS)	TRANSISTOR I/M		
Q 703	2SA933S(CRS)	TRANSISTOR I/M		
Q 720	2SC1740S(R,S)	TRANSISTOR I/M		
Q 721	2SA933S(CRS)	TRANSISTOR I/M		
Q 722	2SC1740S(R,S)	TRANSISTOR I/M		
Q 730	2SC1740S(R,S)	TRANSISTOR I/M		
Q 731	2SC1740S(R,S)	TRANSISTOR I/M		
Q 740	2SC1740S(R,S)	TRANSISTOR I/M		
Q 750	2SD1681(S,T)	TRANSISTOR		
Q 751	2SA881	TRANSISTOR		
Q 752	2SA933S(CRS)	TRANSISTOR I/M		
Q 753	2SA933S(CRS)	TRANSISTOR I/M		
Q 754	DTC114ES	TRANSISTOR I/M		
Q 755	DTC144ES	TRANSISTOR I/M		
Q 801	2SC1740S(R,S)	TRANSISTOR I/M		
Q 901	2SC1740S(R,S)	TRANSISTOR I/M		
Q 941	DTA144ES	TRANSISTOR I/M		
R 1	QRD161J-104	C-RESISTOR		
R 2	QRD161J-473	C-RESISTOR		
R 3	QRD161J-563	C-RESISTOR		
R 4	QRD161J-104	C-RESISTOR		
R 5	QRD161J-181	C-RESISTOR		
R 6	QRD161J-821	C-RESISTOR		
R 7	QRD161J-330	C-RESISTOR		

100K 5% 1/6W
47K 5% 1/6W
56K 5% 1/6W
100K 5% 1/6W
180 5% 1/6W
820 5% 1/6W
33 5% 1/6W

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 8	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 9	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 10	QRD161J-2R2	C.RESISTOR	2-2 5% 1/6W	
R 11	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 12	QRD161J-360	C.RESISTOR	56 5% 1/6W	
R 14	QRD161J-681	C.RESISTOR	680 5% 1/6W	
R 15	QRD161J-101	C.RESISTOR	100 5% 1/6W	
R 16	QRD161J-221	C.RESISTOR	220 5% 1/6W	
R 17	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R 18	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 19	QRD161J-152	C.RESISTOR	1.5K 5% 1/6W	
R 20	QRD161J-123	C.RESISTOR	12K 5% 1/6W	
R 21	QRD161J-823	C.RESISTOR	82K 5% 1/6W	
R 22	QRD167J-562	C.RESISTOR	5.6K 5% 1/6W	
R 23	QRD161J-224	C.RESISTOR	22K 5% 1/6W	
R 24	QRD161J-332	C.RESISTOR	3.3K 5% 1/6W	
R 25	QRD161J-123	C.RESISTOR	12K 5% 1/6W	
R 26	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 27	QRD161J-471	C.RESISTOR	470 5% 1/6W	
R 28	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 29	QRD161J-471	C.RESISTOR	470 5% 1/6W	
R 30	QRD167J-682	C.RESISTOR	6.8K 5% 1/6W	
R 31	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 51	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 52	QRD161J-330	C.RESISTOR	33 5% 1/6W	
R 56	QRD161J-224	C.RESISTOR	1.0K 5% 1/6W	
R 58	QRD161J-181	C.RESISTOR	180 5% 1/6W	
R 59	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
R 60	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 61	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 62	QRD167J-682	C.RESISTOR	6.8K 5% 1/6W	
R 63	QRD161J-823	C.RESISTOR	82K 5% 1/6W	
R 64	QRD161J-820	C.RESISTOR	82 5% 1/6W	
R 65	QRD167J-682	C.RESISTOR	6.8K 5% 1/6W	
R 66	QRD161J-272	C.RESISTOR	2.7K 5% 1/6W	
R 68	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 69	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 70	QRD161J-560	C.RESISTOR	56 5% 1/6W	
R 81	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
R 82	QRD161J-821	C.RESISTOR	820 5% 1/6W	
R 83	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 84	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 85	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
R 86	QRD161J-183	C.RESISTOR	18K 5% 1/6W	
R 87	QRD161J-512	C.RESISTOR	5.1K 5% 1/6W	
R 88	QRD161J-334	C.RESISTOR	330K 5% 1/6W	
R 101	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 102	QRD167J-121	C.RESISTOR	120 5% 1/6W	
R 103	QRD161J-334	C.RESISTOR	330K 5% 1/6W	
R 104	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
R 106	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 121	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 122	QRD161J-154	C.RESISTOR	150K 5% 1/6W	
R 123	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 141	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
R 149	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 173	QRD161J-330	C.RESISTOR	33 5% 1/6W	
R 174	QRD161J-3R3	C.RESISTOR	3.3 5% 1/6W	
R 201	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 202	QRD167J-121	C.RESISTOR	120 5% 1/6W	
R 203	QRD161J-334	C.RESISTOR	330K 5% 1/6W	
R 204	QRD161J-153	C.RESISTOR	15K 5% 1/6W	
R 206	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 221	QRD161J-104	C.RESISTOR	100K 5% 1/6W	
R 222	QRD161J-154	C.RESISTOR	150K 5% 1/6W	
R 223	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 241	QRD161J-472	C.RESISTOR	4.7K 5% 1/6W	
R 249	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 273	QRD161J-330	C.RESISTOR	33 5% 1/6W	
R 274	QRD161J-3R3	C.RESISTOR	3.3 5% 1/6W	
R 301	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W	
R 302	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 310	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 401	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W	
R 402	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 410	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 701	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 702	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 703	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 704	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 705	QRD161J-473	C.RESISTOR	47K 5% 1/6W	
R 706	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 707	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 708	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 709	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W	
R 710	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W	
R 711	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W	
R 712	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 713	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 714	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 720	QRD161J-101	C.RESISTOR	100 5% 1/6W	
R 721	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 722	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 723	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 724	QRD161J-223	C.RESISTOR	22K 5% 1/6W	
R 725	QRD161J-392	C.RESISTOR	3.9K 5% 1/6W	
R 730	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 731	QRD161J-152	C.RESISTOR	1.5K 5% 1/6W	
R 732	QRD167J-332	C.RESISTOR	3.3K 5% 1/6W	
R 733	QRD161J-271	C.RESISTOR	270 5% 1/6W	
R 740	QRD161J-103	C.RESISTOR	10K 5% 1/6W	
R 750	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 751	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 752	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
R 753	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
R 754	QRD161J-102	C.RESISTOR	1.0K 5% 1/6W	
R 755	QRD161J-222	C.RESISTOR	2.2K 5% 1/6W	
R 756	QRD161J-333	C.RESISTOR	33K 5% 1/6W	
R 901	QRD161J-220	C.RESISTOR	22 5% 1/6W	

• Operation Switch P.C. Board Parts List

BLOCK NO. 02

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 902	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W	
R 903	GRD161J-473	C-RESISTOR	47K 5% 1/6W	
R 904	GRD167J-562	C-RESISTOR	5.6K 5% 1/6W	
R 941	GRD161J-102	C-RESISTOR	1.0K 5% 1/6W	
R 942	GRD161J-272	C-RESISTOR	2.7K 5% 1/6W	
R 943	GRD161J-182	C-RESISTOR	1.8K 5% 1/6W	
R 944	GRD141J-102S	C-RESISTOR	1.0K 5% 1/4W	
R 945	GRD161J-471	C-RESISTOR	470 5% 1/6W	
T 1	VQF1B13-005	OSC COIL		
T 2	VQ7F18-101	IFT		
T 53	VQZ0028-001	ANT COIL		
T 54	VQZ0027-001	ANT COIL		
T 55	VQ7A21-103	I.F.T.		
T 56	VQ7A11-201	IFT		
TC 1	QAT3001-053	T-CAPACITOR		
TC 51	QAT3620-200M	T-CAPACITOR		
TC701	QAT3620-200M	T-CAPACITOR		
VR941	FSVR1002-001	TUN.TONE		
VR942	FSVR1001-001	SW.VR.BAL.FADER		
X 701	V472124-A0	CRYSTAL		
A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
PL501	VGZ0001-037	LAMP		
PL502	VGZ0001-037	LAMP		
PL503	VGZ0001-040	LAMP		
PL504	VGZ0001-040	LAMP		
S 501	QSPIA11-V06AZ	TACT SWITCH		
S 502	QSPIA11-V06AZ	TACT SWITCH		
S 503	QSPIA11-V06AZ	TACT SWITCH		
S 504	QSPIA11-V06AZ	TACT SWITCH		
S 505	QSPIA11-V06AZ	TACT SWITCH		
S 506	QSPIA11-V06AZ	TACT SWITCH		
S 507	VST0016-001	TACT SWITCH		
S 508	VST0016-001	TACT SWITCH		
S 509	VST0016-001	TACT SWITCH		

11 Exploded View of Enclosure Assembly

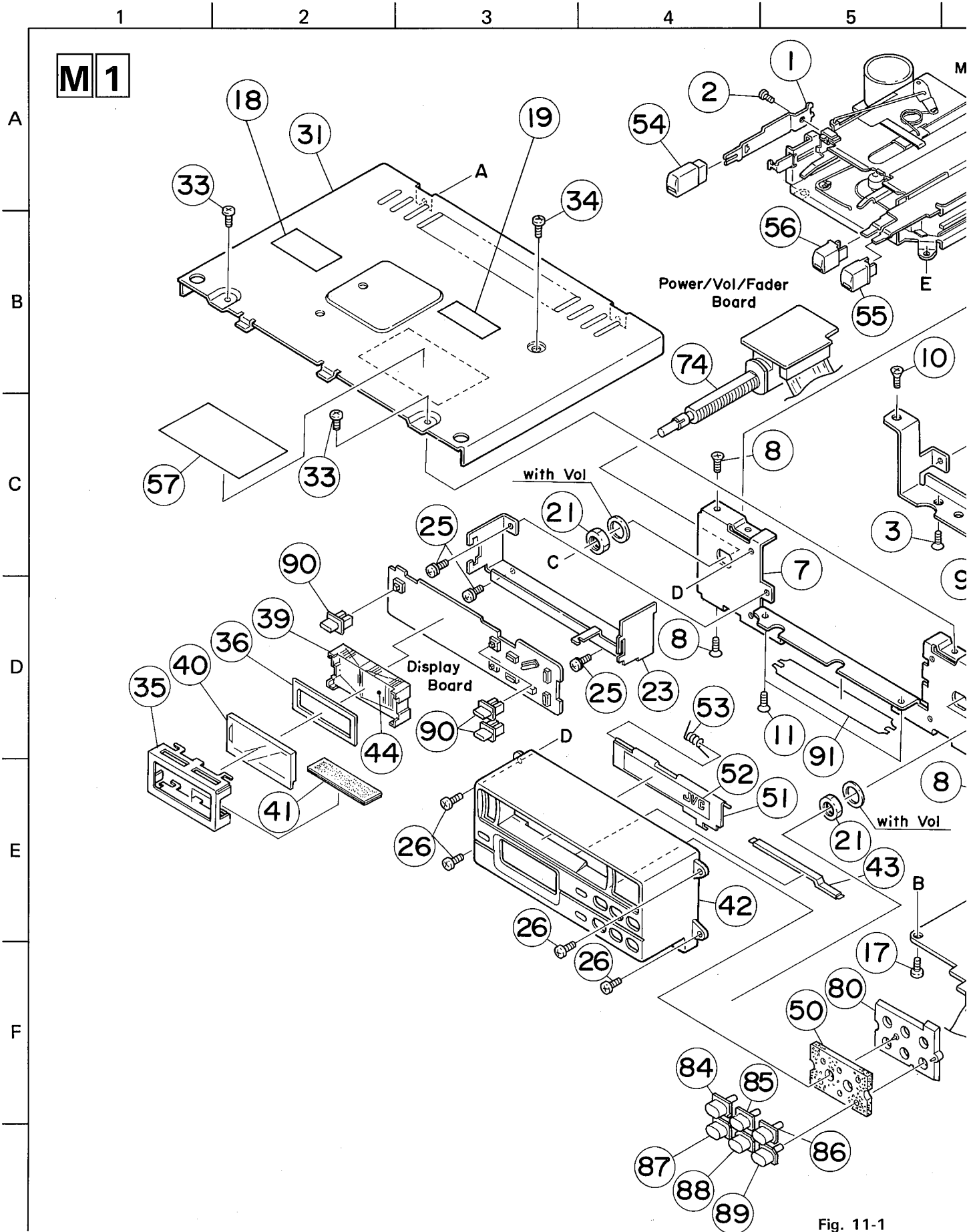
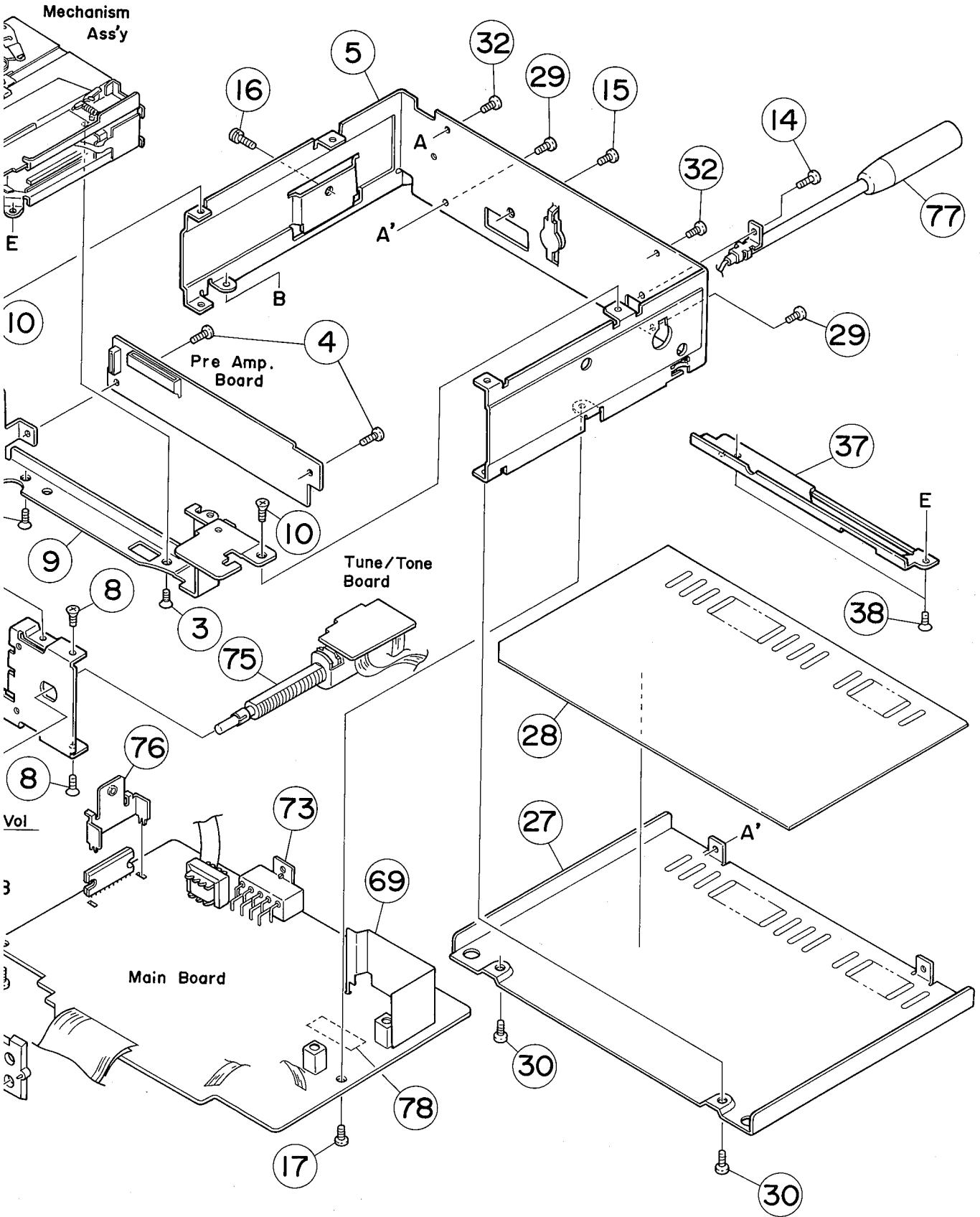
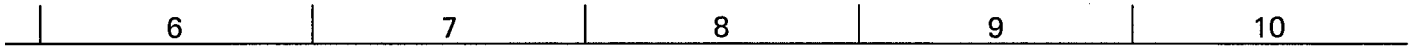


Fig. 11-1



12 Exploded View of Mechanism Assembly

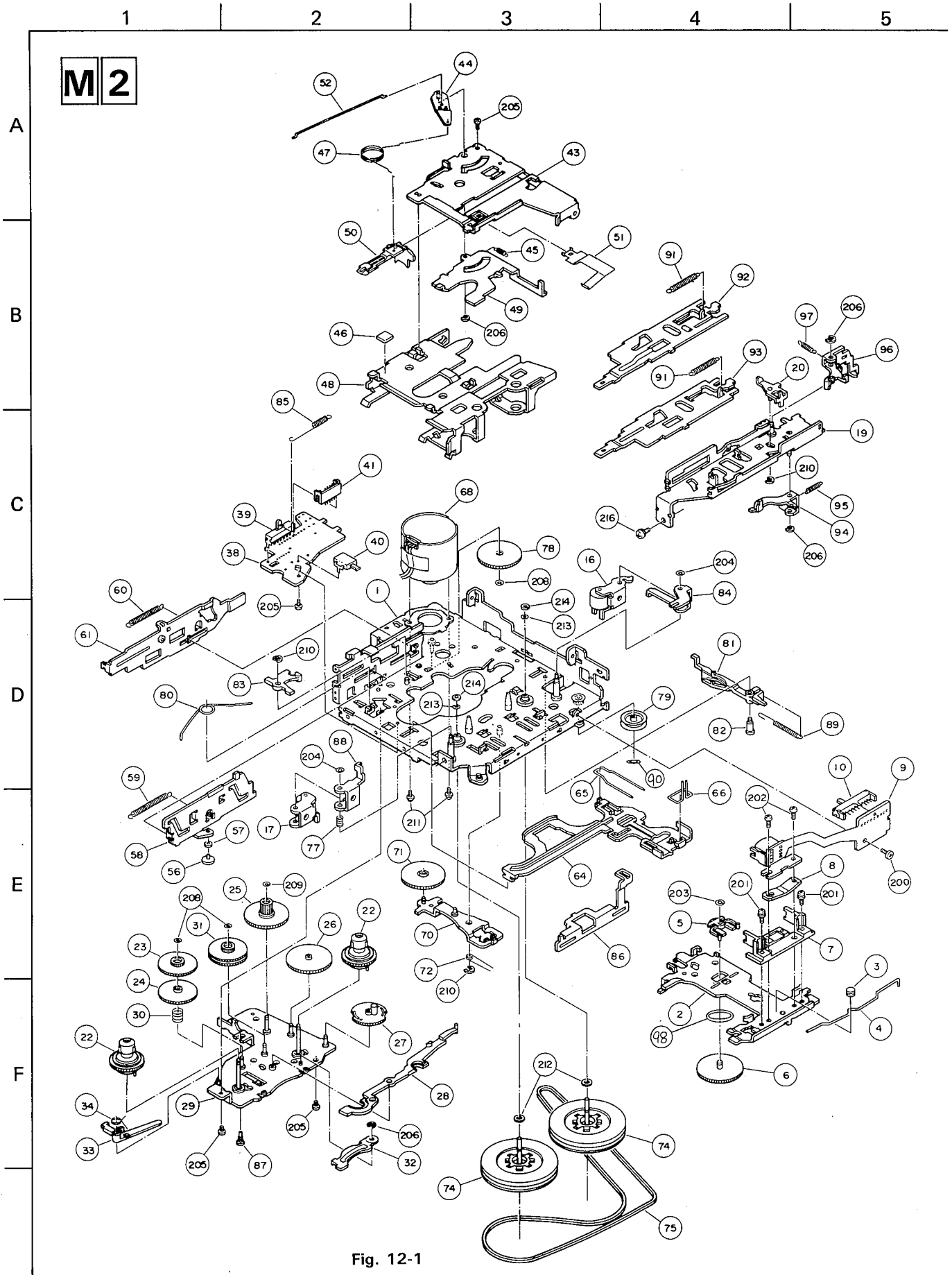


Fig. 12-1

• Mechanism Component Parts List

BLOCK NO. M2MM

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	194001511T	CHASSIS ASS'Y		1
	2	19400301T	HEAD PANEL		1
	3	19400303T	SP ROLLER		1
	4	19400304T	P.R.SPRING		1
	5	19400332T	P.GEAR METAL		1
	6	19400330T	P.GEAR		1
	7	19400302T	TAPE GUIDE		1
	8	19400320T	HEAD SP.PLATE H		1
	9	62020706T	HEAD		1
	10	64020207T	SLIDE SWITCH		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	19400617T	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	19401465T	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		1
	40	64020405T	PUSH SWITCH		1
	41	68140245T	CONNECTOR		1
	43	19400801T	CASE LIFTER		1
	44	184008502T	PUSH LEVER ASSY		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	19401003T	H.S.SPRING		1

△	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	68	194011304T	MOTOR ASS'Y		1
	70	194012502T	FR W.PLT.SEM.AS		1
	71	19401703T	F.GEAR		1
	72	19401702AT	FR SPRING M		1
	74	194013301T	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	19401413T	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	18400553T	FR LEVER SPRING		2
	92	19401501T	FF LEVER (MH)		1
	93	19401502T	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	9W0540010T	HL WASHER		1
	200	9P1220051T	S TAPPING SCREW		1
	201	9P0220051T	TAMS SCREW		2
	202	9P1420042T	SCREW		2
	203	9W0640070T	HL WASHER CUT		1
	204	9W0630060T	HL WASHER CUT		2
	205	9C0420303T	S TAPPING SCREW		4
	206	9E0100152T	E RING		4
	208	9W0625030T	HL WASHER CUT		3
	209	9W0630050T	HL WASHER CUT		1
	210	9E0100202T	E RING		3
	211	9P0220031T	TAMS SCREW		2
	212	9W0513030T	HL WASHER		2
	213	9W0520010T	HL WASHER CUT		2
	214	9W0650030T	HL WASHER CUT		2
	216	9P0226041T	TAMS SCREW		1

• Enclosure Component Parts List

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	ZCKSR127J-NPA	NOSE PIECE	REF.42,43,51-53	1		
1	VKL6988-001	EJECT LEVER		1		
2	SPSK2625Z	SCREW		1		
3	SSSP3006Z	SCREW	MECHA+MECHA BRA	2		
4	VKZ4381-002	SCREW	PWB+MECHA BRACK	2		
5	FSKM1001-003	U-FRAME		1		
7	FSKM3001-002	FRONT FRAME		1		
8	SSST2606Z	SCREW	SIDE+F.FRAME	4		
9	VKM3569-001	MECHA HOLDER(R)		1		
10	SSST2606Z	SCREW	SIDE+M.HOLDER	2		
11	SSSP3006Z	SCREW	MECHA ASS'Y	2		
14	LPSP3006Z	SCREW	REAR+ANT.CORD	1		
15	LPSP3006Z	SCREW	9 PIN CONNECTOR	1		
16	LPSP3006Z	SCREW	SIDE+IC BRACKET	1		
17	VKZ4381-001	SPECIAL SCREW	CHASSIS+MAIN PW	2		
18	VND5008-001	FCC LABEL		1		
19	E407097-002	CAUTION LABEL		1		
21	VKZ4229-003	HEAVY NUT		2		
23	VKM3470-001	P.W.B BRACKET		1		
25	SSST2606Z	SCREW	PWB.BKT+F.FRAME	3		
26	SDST2606Z	SCREW	FRONT+NOSE PIEC	4		
27	VKL3691-101	BOTTOM COVER		1		
28	FSMA4001-002	INSULATOR		1		
29	SDST2604Z	SCREW	REAR+B.COVER	2		
30	SDST2604Z	SCREW	FRONT+B.COVER	2		
31	VKM3477-001	TOP COVER		1		
32	SDST2604Z	SCREW	REAR+T.COVER	2		
33	SDST2604Z	SCREW	FRONT+TOP COVER	2		
34	SDST2604Z	SCREW	MECHA+TOP COVER	1		
35	VJC3188-001	LCD CASE		1		
36	VYTT531-002	SCREEN		1		
37	VKL7129-001	MECHA HOLDER(F)		1		
38	SSST2606Z	SCREW	F.FRAME+M.HOLER	2		
39	VJK3451-002	LCD LENS		1		
41	VMZ0053-003	CONNECTOR		1		
42	VJC1982-001SS	NOSE PIECE		1		
43	VJK3454-001SS	LIGHT LENS		1		
44	VYTT451-014	SHEET		1		
50	VYTH471-004	BUTTON CUSHION	PRESET BUTTON	1		
51	VJC4145-002SS	CASSETTE LID		1		
52	FSJD4004-003	LID PLATE		1		
53	VKW4947-001	DOOR SPRING		1		
54	VXP3503-001	EJECT BUTTON		1		
55	VXP3505-001	F.F.BUTTON		1		
56	VXP3504-001	REW BUTTON		1		
57	FSYN3006-006	NAME PLATE		1		
69	VMA4262-101	SHIELD PLATE		1		
76	VKL6996-001	I.C. BRACKET		1		
78	FSMA4002-002	SHIELD PLATE		1		
80	VJK3453-002	BUTTON LENS		1		
84	VXP3279-001	PRESET BUTTON	#1	1		
85	VXP3279-002	PRESET BUTTON	#2	1		
86	VXP3279-003	PRESET BUTTON	#3	1		
87	VXP3279-004	PRESET BUTTON	#4	1		
88	VXP3279-005	PRESET BUTTON	#5	1		

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
89	VXP3279-007	PRESET BUTTON	BAND	1		
90	VXP3421-002	PUSH BUTTON		3		
91	VYTS494-001	SPACER		1		
J 1	VMP0029-011	ANT. SOCKET		1		

13 Packing Illustration and Packing Parts List

M 3 , M 4

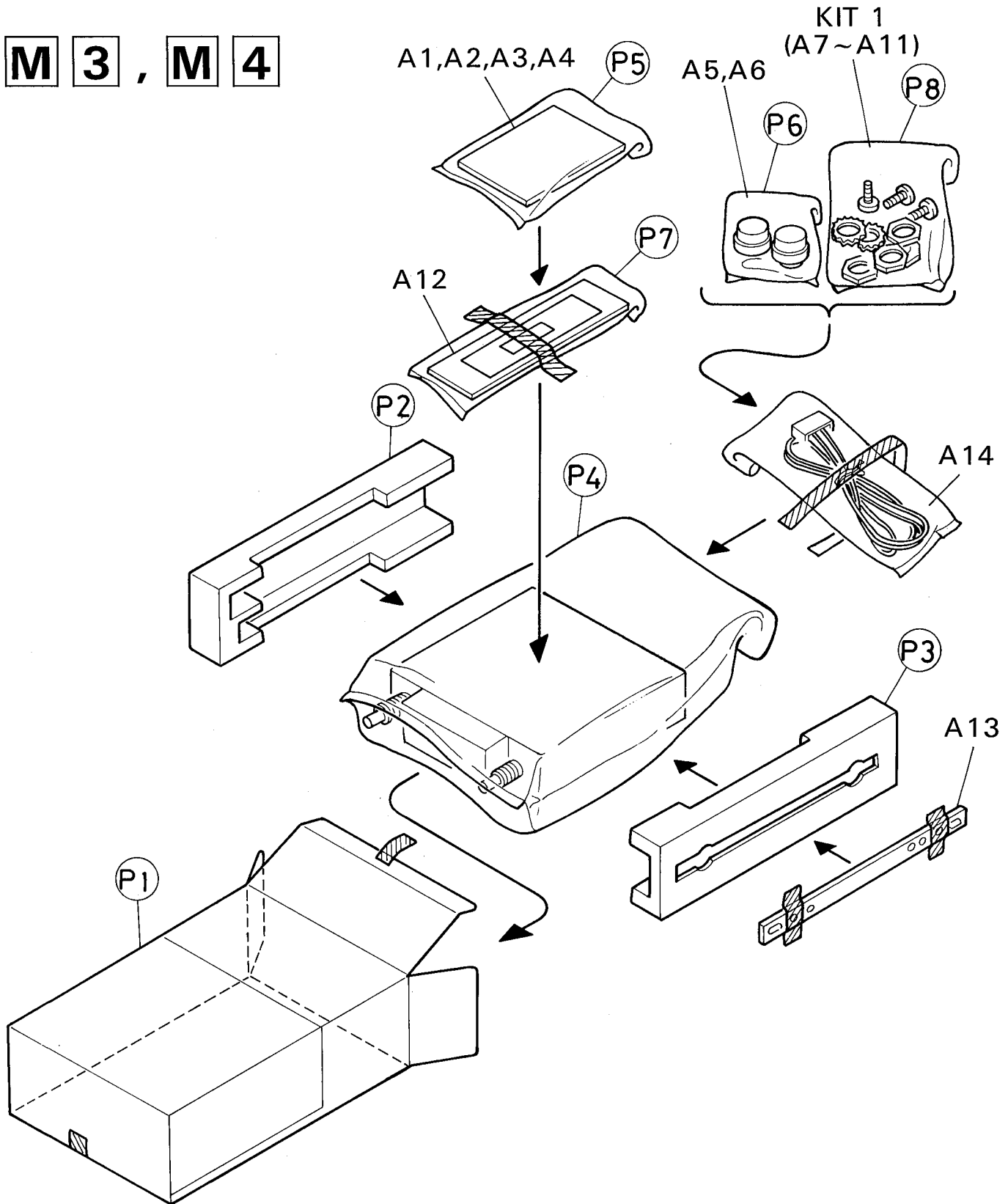


Fig. 13-1

• Packing Parts List

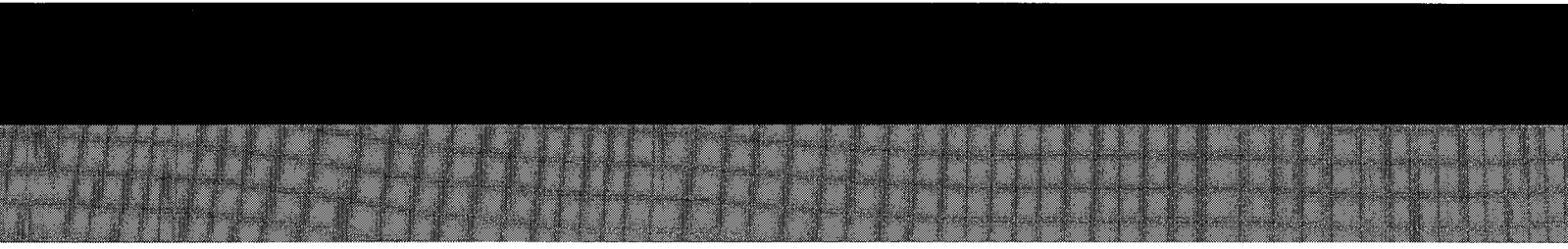
BLOCK NO.

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P 1	FSPE3001-010	CARTON		1		
P 2	VPH2305-001	CUSHION (U)		1		
P 3	VPH2306-002	CUSHION (R)		1		
P 4	VPE3004-001	POLY BAG		1		
P 5	QPGA017-02505	POLY BAG	INST.BOOK	1		
P 6	QPGA012-01505	POLY BAG	KNOBS	1		
P 7	QPGA008-02508	POLY BAG		1		
P 8	QPGA007-01003	POLY BAG	Q.BOLT/NUT	1		

• Accessories

BLOCK NO.

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A 1	BT-20059D	WARRANTY CARD		1		
A 2	BT-20137	WARRANTY CARD		1		
A 3	FSUN3006-631S	INSTRUCTIONS		1		
A 4	VNC2400-066	CAUTION LABEL		1		
A 5	FSXL4003-00A	KNOB ASS'Y	KNOB A + SPRING	2		
A 6	FSXL4002-001	KNOB B		2		
A 7	VKZ4026-00A	Q BOLT ASS'Y		1		
A 8	V1285020-003	HEAVY NUT		4		
A 9	V1285022-003	WASHER		4		
A 10	WBS5000N	WASHER		1		
A 11	VKZ4328-001	LOCK NUT		1		
A 12	FSJC2001-002	TRIM PLATE		1		
A 13	VKL5460-001	STAY		1		
A 14	VMC0014-103	9P CORD ASSY		1		
KIT 1	KSR125K-SCREW	SCREW KIT	A7-A11	1		



JVC

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