ORDER NO. VRD-8310-489

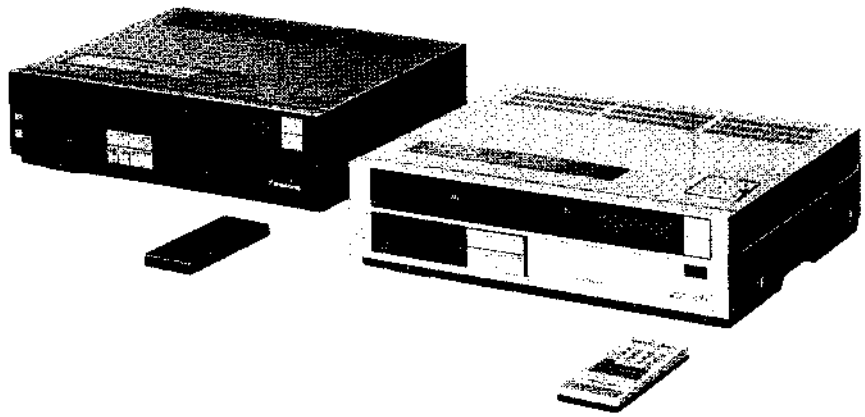
Service Manual

Video Cassette Recorder

General Description
Adjustment Procedures
Block/Schematic Diagrams
Exproded Views/Parts List

Panasonic VHS Hi-Fi

NV-850 -E -EG -B



SPECIFICATIONS

Power Source:	220 V AC 50/60 Hz (NV-850-E/-EG) 240 V AC 50/60 Hz (NV-850-B)
Power Consumption:	Approx. 38 watts
Television System:	CCIR: 625 lines, 50 fields PAL colour signal CCIR: 625 lines, 50 fields
Video Recording System:	2 rotary heads, helical scanning system Luminance: FM azimuth recording Colour signal: converted subscarrier phase shift recording
Audio Track:	1 track (Normal), Hi-Fi 2CH
Tape Format:	Tape width 12.7 mm high density tape
Tape Speed:	23.39 mm/s
Record/Playback Time:	240 min. with NV-E240
FF/REW Time:	Less than 5.5 min. with NV-E180
Heads:	Video: 3 rotary heads 1 pair for video normal recording and playback (R-L Head) 1 pc. of head for video trick play with L head (field still) Audio: 1 pair for audio Hi-Fi recording and playback (AR-AL Head) Audio/Control: 1 stationary head Erase: 1 full track erase
Input Level:	Video: VIDEO IN connector (BNC) 1.0 Vp-p, 75Ω terminated AV jack (DIN 45482: NV-850-E/-EG) 1.0 Vp-p, 75Ω terminated Audio: LINE IN jack (Phono jack) × 2 More than −20 dB, 50 kΩ AV jack (DIN 45482: NV-850-E/-EG) More than −10 dB, 10 kΩ MIC (M6) −70 dB, More than 3.9 kΩ TV Tuners: VHF CH2 ~ CH12 (NV-850-E/-EG) UHF CH21 ~ CH69
Output Level:	Video: VIDEO OUT connector (BNC) 1.0 Vp-p, 75Ω terminated AV jack (DIN 45482: NV-850-E/EG) 1.0 Vp-p, 75Ω terminated Audio: LINE OUT jack (Phono jack) −8 dB, less than 1 kΩ AV jack (DIN 45482: NV-850-E/-EG) −8 dB, less than 1 kΩ HEADPHONE jack −34 dBV max, 8Ω RF Modulated: UHF CH36 ± 4 73 ± 3 dBμ 75Ω unbalanced
Weight:	9.6 kg
Dimensions:	430(W) × 115(H) × 370(D) mm
Accessory Supplied:	1 pc. DIN-RF Cable 1 pc. Video Cassette Tape 1 pc. Wireless Remote Controller, 2 pc. Audio Cable
Optional Accessories:	Video cassette tape: NV-E240 Approx. 344 m, 240 min. NV-E180 Approx. 258 m, 180 min. NV-E120 Approx. 174 m, 120 min. NV-E60 Approx. 88 m, 60 min.

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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P.O. Box 288, Central Osaka Japan

INTRODUCTION

This service manual contains technical information which will allows service technicians to understand and service the PAL VHS Hi-Fi Video Cassette Recorder Model NV-850E/EG/B.

The NV-850E/EG/B has many special features as shown in page 1-1.

These features in addition to the basic PAL VHS Format make the unit an ideal one for your culture and entertainment.

CONTENTS

REMARKS: NV-850EG West Germany model only

This set can be used for special recording/playback of SECAM colour signal.
SECAM tapes which have been recorded on specified SECAM-VHS recorder can be played back in black-white on this set.

SECTION 1
GENERAL DESCRIPTION

1-1. FEATURES

1. Hi-Fi Sound System

The revolutionary new Panasonic developed Hi-Fi sound recording system features two rotary audio heads arranged on the video head cylinder, while maintaining the conventional stationary audio head for compatibility with the standard VHS system. This new rotary audio head configuration increases the relative tape/head speed, thus making it possible to record a far greater amount of signal information on the tape.
In addition, the hi-fi sound system employs an FM conversion recording method, and the audio and video signal processing circuits are completely separate. The result of this innovative system is superb sound quality with a dynamic range of 80dB, flat frequency response from 20Hz to 20kHz and 0.005% wow and flutter.

2. Playback of Prerecorded Stereo Video Cassette Tapes

The new hi-fi audio system of this VTR allows playing back video tapes of concerts, etc. in stereo with the same outstanding sound quality, that you would get from a high-end audio cassette deck, but with the tremendous added advantage of beeing able to watch your favourite orchestra, singer or actor and actress in action in brilliant colours.

3. Use as a High-Quality Audio Cassette Recorder

The excellent audio quality, outstanding tape economy, continuous 4-hours recording capability, audio recording level control, FL audio level meters and convenient tape programme search system make this VTR ideal for use as a top-quality audio cassette recorder.

4. 14-day/8 Programme Timer

The built-in timer allows automatic absentee recording of up to 8 TV programmes within 14 days. It is also possible to record a programme which is broadcast at the same time every day or every week.

5. Tape Programme Search System

By pressing the Audio Rec Mute Button for at least 4 seconds at the beginning of every recording, this tape programme search system enables fast and automatic locating of the next start of a programme in forward or reverse direction. As soon as the beginning of the programme is found, playback will start immediately. Locating a desired programme or scanning through a whole tape to check the content is perfectly easy and fast.

6. Slim Design and Front Loading System

This highly functional design allows loading the video cassette from the front, thus minimizing the space required for the placement.

7. Multi-Function Display

Whenever an operation button is pressed, the activated function is immediately indicated on this easy-to-see display. It shows you at a glance, in what operation mode the VTR is.

8. One-Touch Timer Recording (OTR)

Simply by pressing the OTR Button between 2 and 5 times, the VTR can be programmed for 30, 60, 90 or 120 minutes of recording with immediate start.

9. Standby OTR Recording

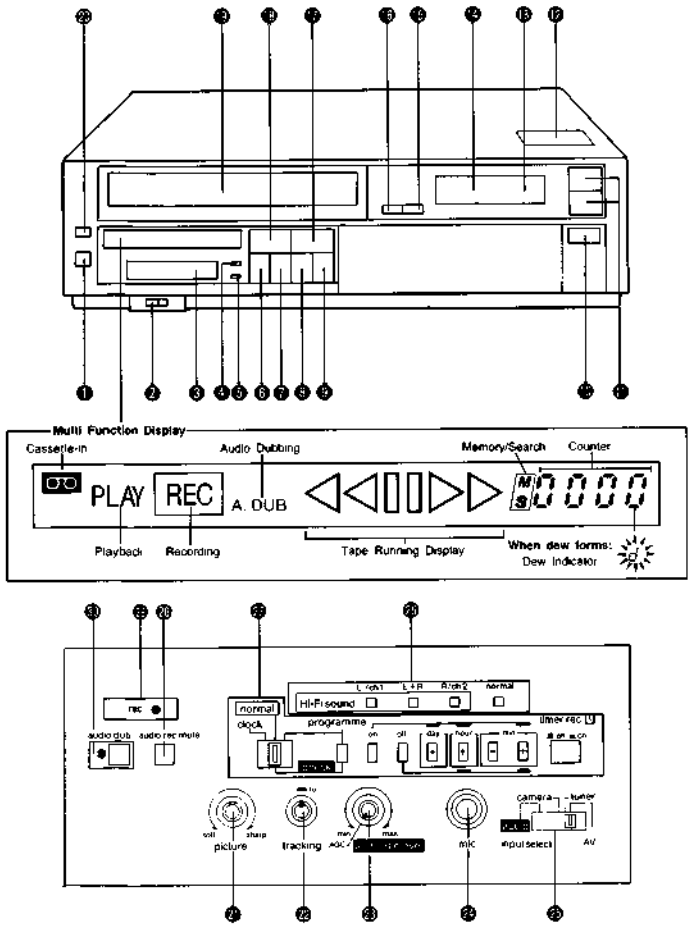
By pressing the Standby Button between 1 and 4 times, the VTR can be programmed to begin recording in 30, 60, 90 or 120 minutes. By subsequently pressing the OTR Button repeatedly, a recording duration of 30, 60, 90 or 120 minutes can be selected for this delayed OTR recording.

10. Infrared Remote Control

The wireless infrared remote control unit allows operating the following functions from the comfort of your favourite viewing position: • VTR ON/Off • Record • Play • Pause/Still • Still Advance • Cue • Review • Fast Forward • Rewind • Direct Channel Selection.

1-2. CONTROLS AND COMPONENTS

TOP AND FRONT



❶ **VTR ON/OFF Switch**

❷ **Audio Level Meter Selector Switch**
Selecting this Audio Level Meter Selector Switch, the Audio Level Meter (3) display the audio recording level or condition of the Hi-Fi audio tracking.

❸ **Audio Level Meter**

❹ **Reset Button**
Push the reset button to reset the Counter of Multi-Function Display to "0000".

❺ **Memory/Search Button**
If you want find a certain tape position again later, reset the tape counter at that point and press the "memory/search" button once.
During Rewind or Fast Forward, the tape will stop automatically at the tape counter position "0000".
The convenient Tape Programme Search function of this VTR locates blank spaces in the audio track (that mark the beginning of the programmes) during Cue or Review playback. As soon as the next blank space is reached, the recording starts automatically if the search was started from the playback mode. If it was started from the still mode, it will be stopped in the still mode.

1. Press the "audio rec mute" button (28) more than 4 seconds during recording to mark the beginning of a programme.
2. Press memory/search Button twice, then "S" appears on the Multi-Function Display.
3. Press the Play Button (17) (or the Playback and Pause/Still Buttons).
4. Press the Rewind/Review (8) or Fast Forward/Cue Button (9) to start the tape programme search function.
   The tape programme start without sound reproduction will start.

❻ **Pause/Still Button**
Push to temporarily stop the tape during recording in order to avoid recording unwanted material, or to view a paused picture during playback. Push again to release the tape from pause.

❼ **Still Advance Button**
During pause mode, press the Still Advance Button. Each time you press this button, the still-picture will advance one single frame. A slow motion effect with noise is obtainable by holding down the Still Advance Button (about 1/6 speed of normal playback).

❽ **Rewind/Review Button**
Push to rewind the tape.
When this button is pressed during playback, the picture can be scanned in reverse at 5 times normal speed. Review will continue as long as the button is depressed.

❾ **Fast Forward/Cue Button**
Push to fast-forward wind the tape.
When this button is pressed during playback, the picture can be scanned will play back at 5 times normal speed. Cueing will continue as long as the button is depressed.

❿ **Infra-red Remote Control Receiver**
Receives the signal from the Infra-red Remote Control.

⓫ **Channel Selection Up and Down Buttons**
Push the desired channel selector buttons to select the channel you wish to view or record.

⓬ **Tuner Set-up Controls**
Used to tune to any broadcast channel in your area.

⓭ **Channel Display**

⓮ **Time Display**
Indicates either the time and day or recording start/stop times for the timer recording.

⓯ **OTR Button**
Automatic recording for 30, 60, 90 or 120 minutes is possible by pushing this button.

⑯ **Stand by Button**
OTR recording can start after a delay of 30, 60, 90 or 120 minutes.

1. Select the TV channel to be recorded.
2. Press the "stand by" Button repeatedly to select the time delay.
   The "stand by" indication will flash.
3. Press the OTR Button repeatedly to select the desired recording duration.
   • After selecting time delay for the OTR recording start in step 2, the OTR Button must be pressed within 8 seconds to select the OTR recording duration, otherwise the selected delay will be cancelled.

⑰ **Play Button**
Push to play back a recorded tape.

⑱ **Stop Button**
Push to stop the tape.

⑲ **Cassette Holder**

⑳ **Eject Button**
Press this button to remove the cassette.

㉑ **Picture Sharpness Control**
The picture sharpness control enables the playback picture to be adjusted so that its outlines are made sharper or softer.
It has no effect when recording.

㉒ **Tracking Control**

Noise Picture

Tapes recorded on another machine show noise or a streaky playback picture, rotate this control slowly in either direction until the picture is clear. The control should normally be kept in the "FIX" position.

If the sound is not satisfactory during playback of a cassette tape that was recorded on another Hi-Fi video recorder, set the Level Meter Selector Switch (2) to 'Hi-Fi tracking' and adjust for optimum sound reproduction by slowly turning the Tracking Control while watching Audio Level Meter (3).

㉓ **Audio Rec Level Control**
Set the Audio Level Meter Selector Switch to "audio level" and adjust the audio rec level control while watching the level meters. (It is recommended to adjust so that peaks in the audio level reach about +6dB.) When the Audio Rec Level Control is set to the AGC position, the recording level is automatically adjusted.

㉔ **Microphone Input Socket**
For connecting a microphone.

㉕ **Input Signal Selector**
For selecting the input signal to be recorded.

CAMERA: To make a recording with using a video camera which is connected to the Video Input Jack and the Audio Input Jack.
TUNER: To record a TV programme with the built-in tuner of the VTR.
AV: To record and playback when using the AV connection.
AUDIO: To record and playback the audio signal when using the NV-850 as a Hi-Fi and TV recorder.

㉖ **Sound Track Selector**
Press the sound selector button for the desired sound mode, as shown below. If no sound selector button is pressed, the sound from the normal sound track (always in mono) will be played back.

L/ch1 .....Left
L+R .....L+R
R/ch2 .....Right
normal.....Mono (normal)

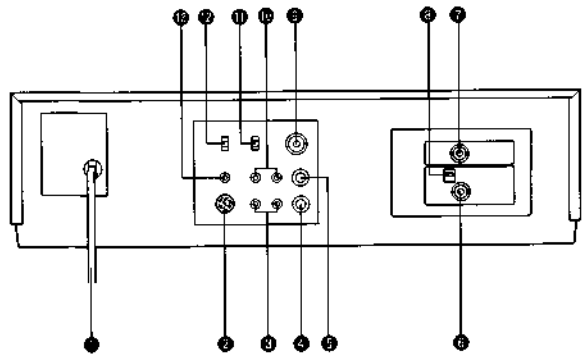
㉗ **Timer Controls**
The timer controls are used to set the clock for the present time and to programme start and stop for timer recording.

㉘ **Audio Rec Mute Button**
Push the Audio Rec Mute Button when indexing the tape for tape Program Search, refer to the description of the Memory/Search Button (5).

㉙ **Record Button**
Push together with Play Button to start recording.

㉚ **Audio Dubbing Button**
When audio dubbing, the input audio signal is recorded on only the "normal" (mono) sound track.

REAR



❶ **AC Mains Cord**

❷ **AV Socket**
Central connecting socket for recording and playback of picture and sound. Connection for TV sets which are also equipped with a central AV socket. Via this socket TV programmes can be recorded, too.
Such a connection improves the picture and sound quality during playback.

❸ **Audio Output Socket**
For connecting an audio cable of a TV monitor, a component audio system, or another VTR.

❹ **Video Output Socket**
For connection to a TV monitor or another Video Cassette Recorder. Not used with an ordinary TV.

❺ **Video Input Socket**
For connecting the video cable of a video camera or an output video signal of another VTR.

❻ **RF Input Socket**
Connect the external aerial, which is now connected to the TV set, to this socket.

❼ **VTR RF Output Socket**
For connection to the antenna terminal (COAXIAL type) of TV with the DIN-DIN Coaxial Cable supplied with the unit.

❽ **RF Signal Level Switch**
Used to attenuate the reception of the VHF and/or UHF antenna signals.
If the reception is normal, set to "HIGH". If the signal strength is high and a stripped pattern appears at the top of the picture on TV, set to "LOW".

❾ **Headphone Socket**

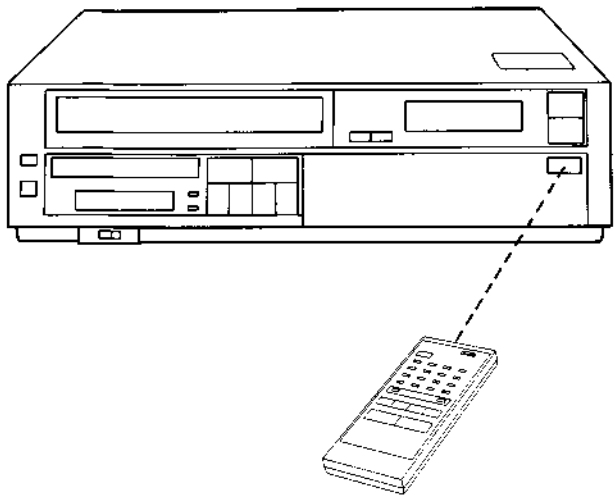
❿ **Audio Input Socket**
For connecting an audio cable of a video camera, a component audio system or another VTR.

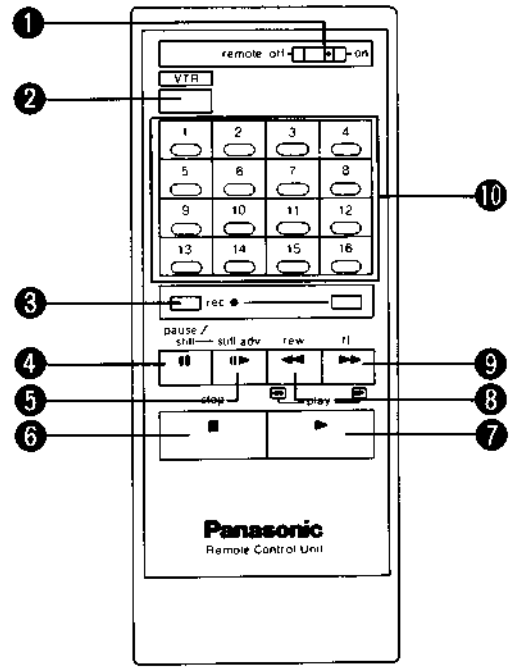
⓫ **Headphones Output Level Switch**
When using headphones, volume level can be changed by using the Headphones Output Level Switch.
Adjust the audio level by turning this control to "LOW"—"HIGH".

⓬ **Colour Mode/Test Signal Switch**
In the TEST position, a black-and-white test pattern is generated, which allows easy tuning of your TV set to the video playback channel of the VTR. For normal recording and playback operation, this switch must be in the middle AUTO position.
Only if the colour reception of a station is particularily weak, setting this switch to the COLOUR position can improve the recording quality.

⓭ **Camera Remote Control Socket**
For connecting the remote control cable of a video camera (optional).

INFRARED REMOTE CONTROLLER





1. **Remote on/off Switch**

2. **VTR on/off Button**

3. **Rec Buttons**
   To start recording, press the two buttons simultaneously.

4. **Pause/Still Button**

5. **Still Adv Button**

6. **Stop Button**

7. **Play Button**

8. **Rewind/Review Button**
   When this button is kept depressed during playback, the VTR changes over to the Review playback mode.

9. **Fast Forward/Cue Button**
   When this button is kept depressed during playback, the VTR changes over to the Cue playback mode.

10. **Channel Selector Buttons**

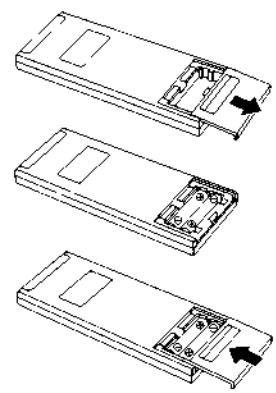
Note:
Infrared beam should be transmitted directly to the VTR. Direct sunlight may interfere with the beam.
- The lightsensing angle of the infrared reception window in the VTR is about 60°.
- The unit should be used within a range of about 7 meters from the front to the VTR.

Power Source of Infra-red Remote Controller

■ The infra-red Remote Controller is powered by two IEC "R03" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

BATTERY REPLACEMENT CAUTION
- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not heat, disassemble or short-circuit the old batteries.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together. (Also never use an alkaline battery with a manganese battery.)

Load the batteries as follows:



1. Remove the Battery Compartment lid.
2. Place two batteries in the Battery Compartment as indicated inside the Battery compartment.
3. Replace the lid.

SECTION 2
ADJUSTMENT PROCEDURE

2-1. MECHANICAL ADJUSTMENT PROCEDURES

The model NV-850 uses the D-1 Mechanical Chassis. Therefore, please refer to the Service Manual D-1 Chassis(Order No. VRD-8310-490) for the main mechanical adjustments.

2-1-1. DISASSEMBLY FLOWCHART

This flowchart indicated disassembly items of the cabinet parts and P.C. Boards in order to find the item(s) necessary for servicing.
When reassembling, perform the step(s) in the reverse order.

Note:
When removing the Front Panel, Work with care not for breaking the locking portion of the panel.

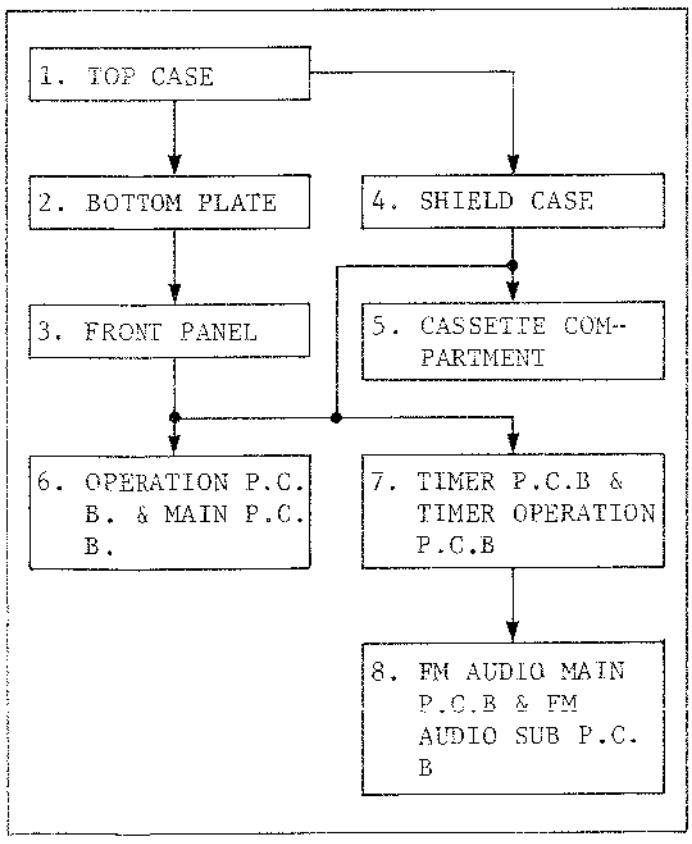


Fig. 1

2-1-2. DETAILED DISASSEMBLY METHOD

1. Removal of Top Case
Unscrew 4 screws (A). Then carefully lift the rear of the case to remove.

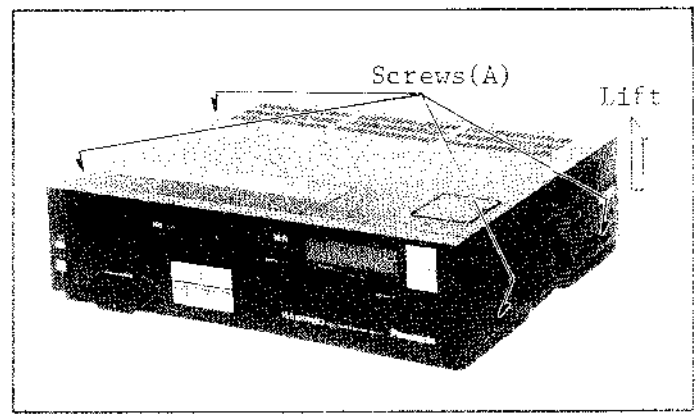


Fig. 2

2. Removal of Bottom Plate
Place the deck up side down so the bottom side face up ward.
Then unscrew 9 screws (B) to remove.
Note:
Place the cushion under the deck for not being damaged the top portion of the deck.

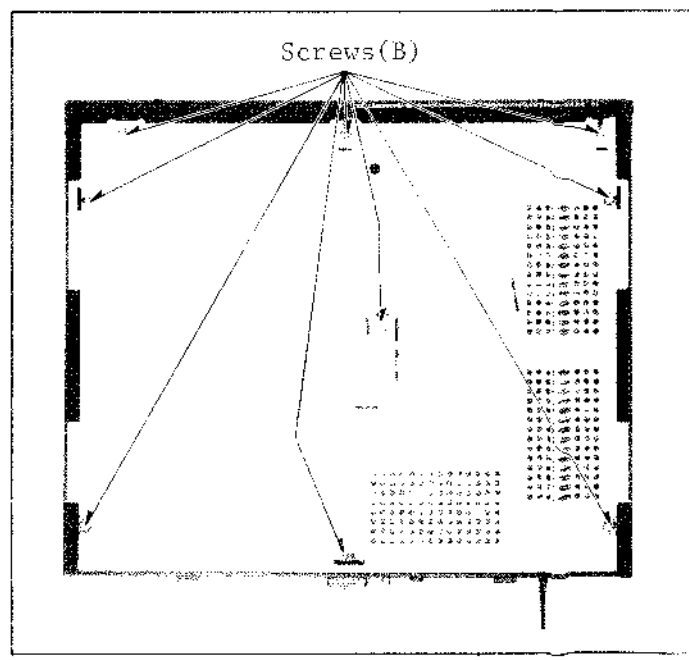


Fig. 3

3. Removal of Front Panel
Remove 3 screws (C) and unlock the 6 locking portions (D).
Then hold the top portion of the panel and turn it toward the front of the deck to remove.

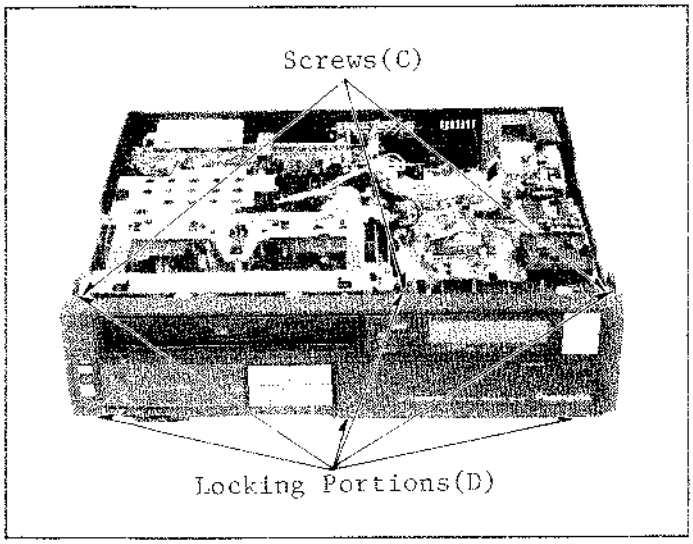


Fig. 4

4. Removal of Shield Plate
Loosen 5 secrews (E) and remove the Shield Plate.

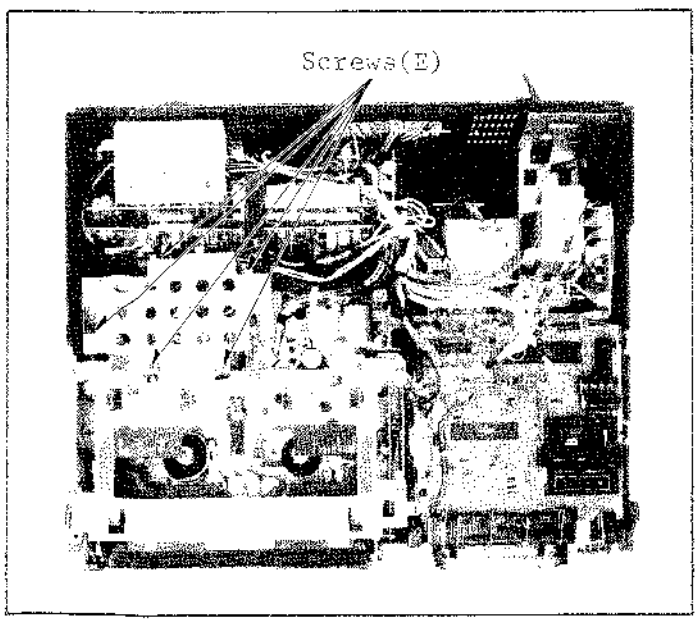


Fig. 5

5. Removal of cassette compartment
Disconnect the connector P1507 from the Front Loading Motor Connection P.C. Board, and unscrew 5 screws (F).
Then carefully pull out the Cassette Compartment.

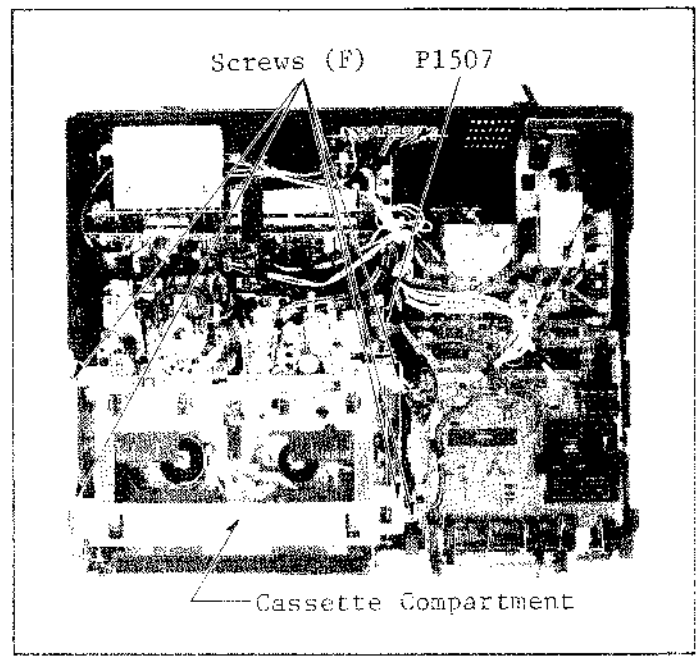


Fig. 6

6. Opening of the Operation P.C.Board and Main P.C. Board with the Head Amp & Luminance (2) P.C. Board.
(1). Unscrew 2 screws (G), and remove the Operation P.C. Board.

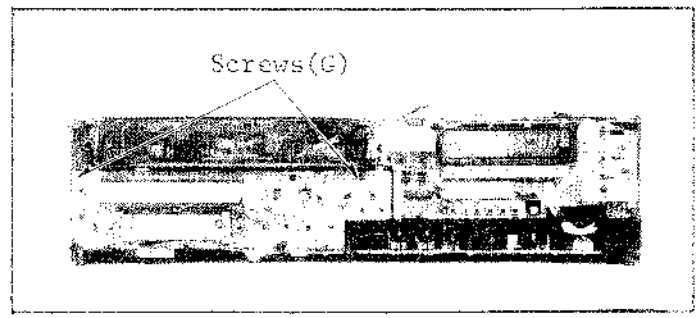


Fig. 7

(2). Unscrew 8 screws (H), and carefully unlock the 2 locking tabs (I). Then open the Main P.C. Board and the Head Amp & Luminance (2) P.C. Board.

Note: Remove the Operation P.C. Board before opening the Main P.C. Board and the Head Amp & Luminance (2) P.C. Board.

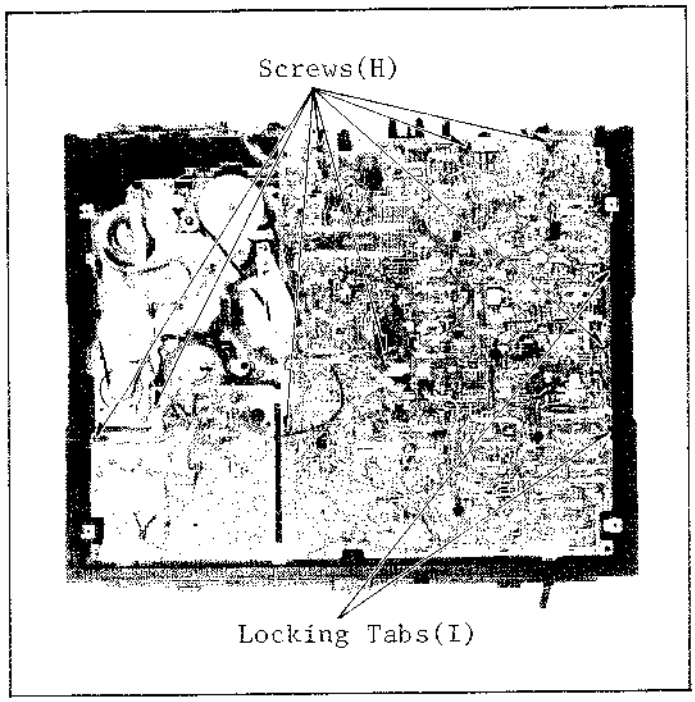


Fig. 8

7. Opening of the Timer P.C. Board and the Timer Operation P.C. Board.

(1) Unscrew the screw (J) to remove the earth lead, and then pay attention to short the circuit by the free lead touching the active circuit.
(2) Remove the connector wires from the Wire Hinge and clampers, and unlock the 4 locking tabs (K).
(3) Turn the Timer P.C. Board toward the front side of the deck till the 2 Locking portions (L).

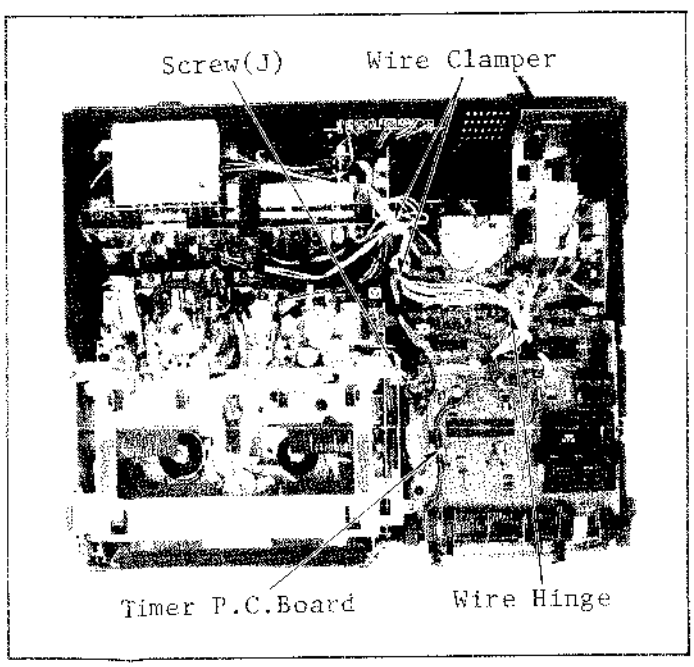


Fig. 9

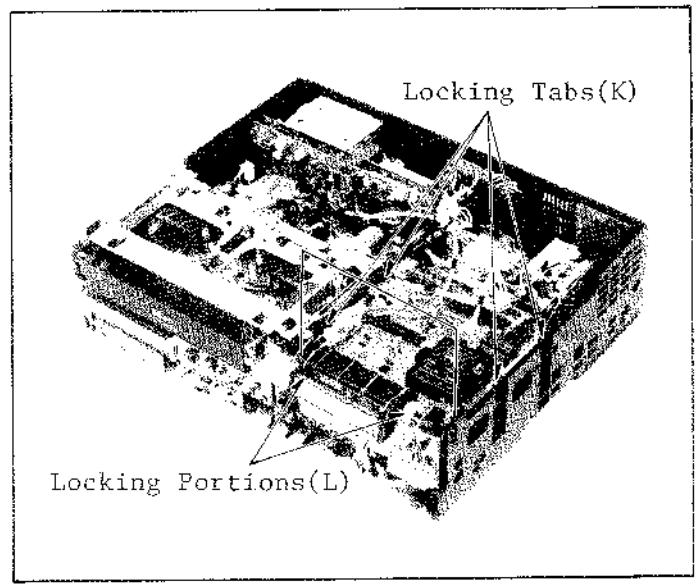


Fig. 10

(4) Next, hold and pull out the 2 Locking Tabs (M), and open the Timer P.C. Board and timer Operation P.C. Board.

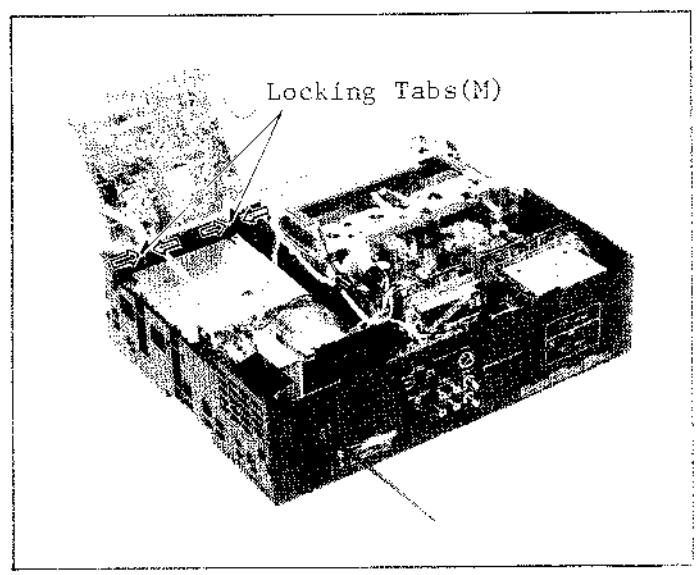


Fig. 11

8. Opening of the FM Audio Main P.C. Board and the FM Audio Sub P.C. Board.

(1) Unscrew 3 screws (N) and unlock the Locking Tab (O), and turn to open the FM Audio Main P.C. Board and the FM Audio Sub P.C. Board.

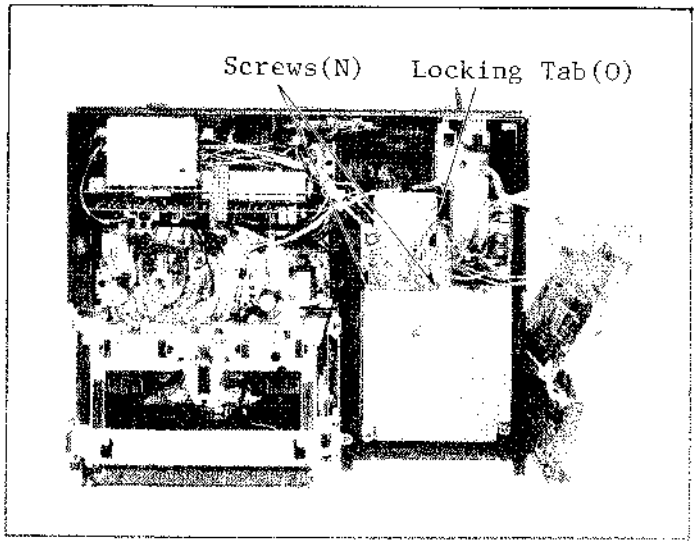


Fig. 12

2-1-3. REPLACEMENT PROCEDURE FOR STATOR ANGLE, RT ROTOR BASE, AND UPPER CYLINDER

REMOVAL PROCEDURES

1. STATOR ANGLE

First, unscrew 2 screws (A) and then remove the Stator Angle as shown in Fig. 13.

Note: Be very careful to remove the Stator Angle so that it won't directly come into contact with lead wires alongside and the video head as well.
Never touch the Rotary Transformer and screws(E) that secure the Stator Base. If screws (E) are removed, the properly adjusted height of the Stator Base will vary.

2. RT ROTOR BASE

First, unscrew 2 screws (B), and then unsolder 4 of the soldered portions connecting the RT Rotor Base and the Upper Cylinder, and finally remove the RT Motor Base.

3. UPPER CYLINDER

Unscrew 2 screws (C) and unsolder 8 of the soldered portions indicated by arrows on the Upper Cylinder, and finally remove the Upper Cylinder.

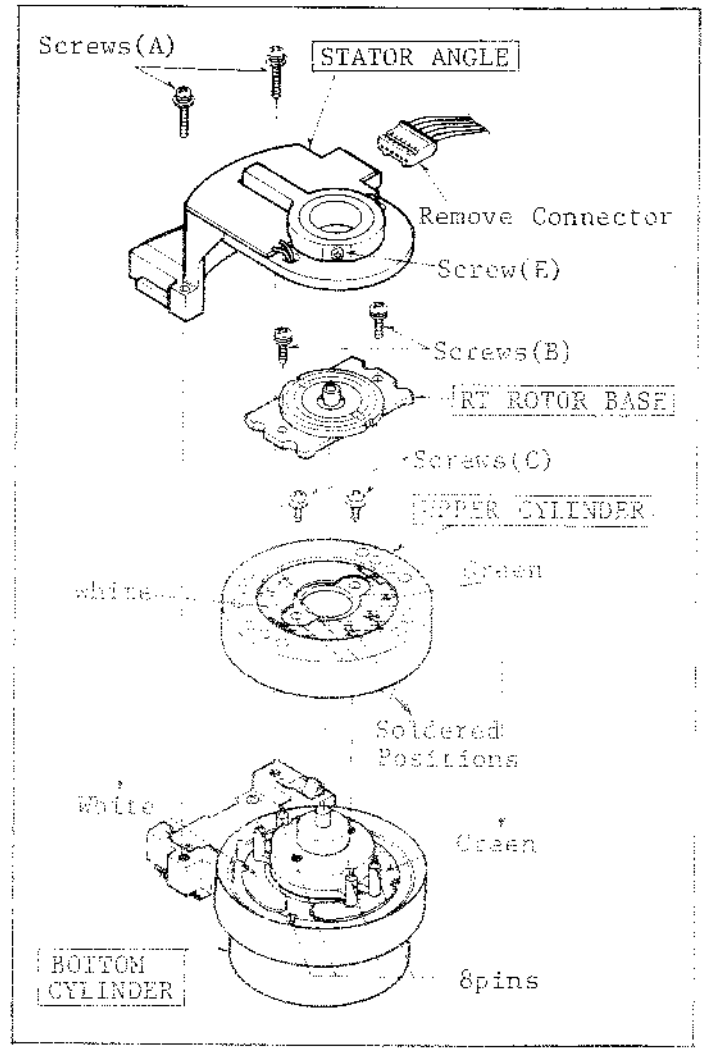


Fig. 13

REINSTALLATION PROCEDURES

1. Reverse the Removal Procedures for reinstalling the Upper Cylinder, the RT Rotor Base, the Stator Angle.

   NOTE: The Upper Cylinder should correctly match the white and green portions of the P.C. Board of the Bottom Cylinder as shown in Fig. 13.

2. Before reinstalling the Stator Angle, as shown in Fig. 15, carefully tighten screws (A) with the designated "Stator Angle Adjustment JIG (VFK0268)". After screws (A) are properly tightened, disengage this Jig.

3. Reinstall the connector.

4. Play back the pre-recorded tape, and check the playback picture.

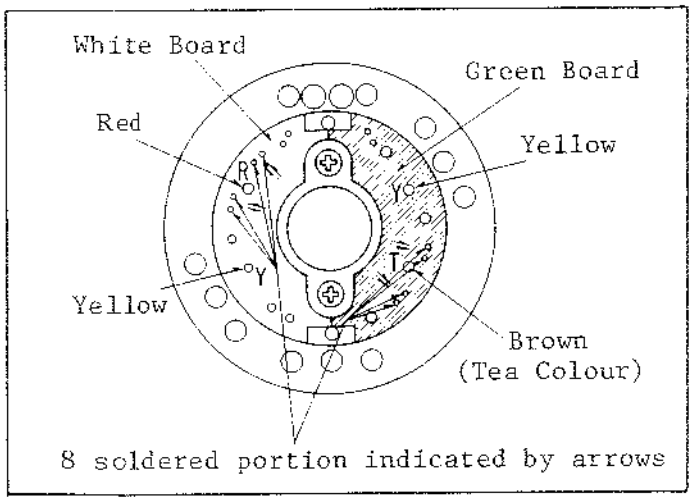


Fig. 14

STATOR ANGLE ADJUSTMENT JIG

To correctly reinstall the Stator Angle, the designated Stator Angle Adjustment Jig (VFK0268) must be used.

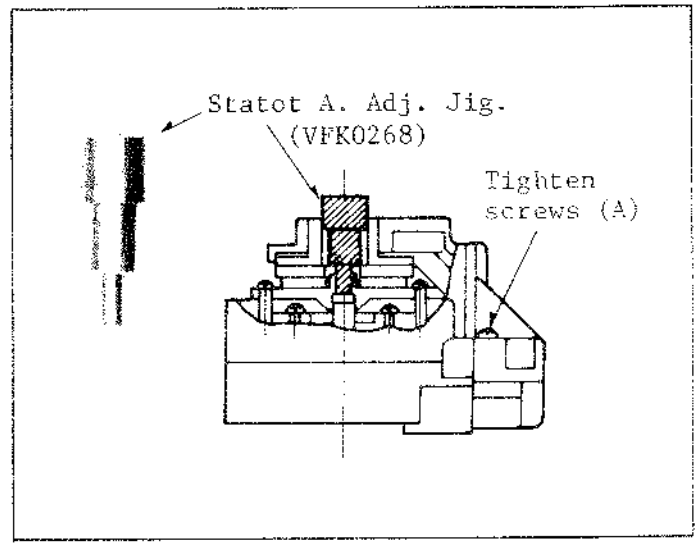


Fig. 15

2-1-4. REPLACEMENT OF AC CORD

Note: When AC cord is replaced, please change both AC cord cover and Binding wire without fail for safety operation.

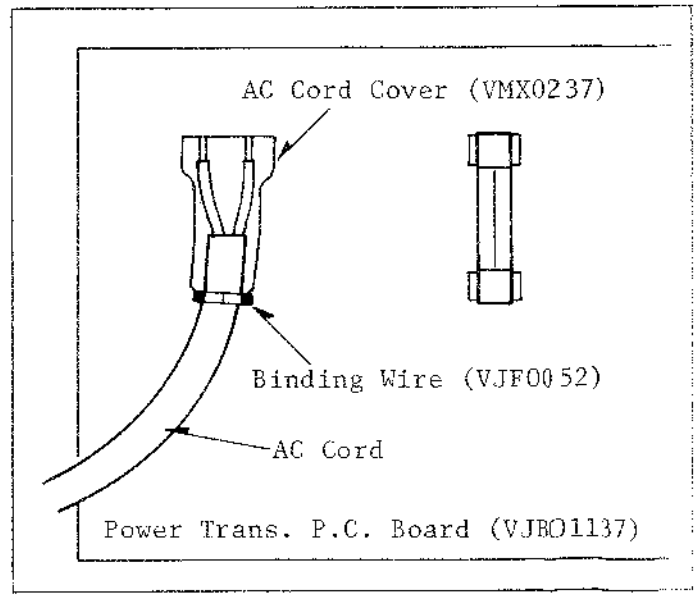


Fig. 16

2-2. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette recorder NV-850.

2-2-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range: 0.001 - 50V
2. Dual-Trace Oscilloscope
   Voltage Range: 0.005 - 50V/div.
   Frequency Range: DC - 10MHz
   Probes: 10:1 or 1:1
3. Frequency Counter
   Frequency Range: 0 - 10MHz
4. Signal Generator (Sinewave)
   Frequency Range: 0 - 10MHz
5. Video Sweep Generator
   Frequency Range: 0 - 10MHz
6. Colour Monitor TV
7. Plastic Tip Driver
8. VHS Alignment Tape (VFM8100H3D)

2-2-2. HOW TO READ THE ADJUSTMENT PROCEDURES

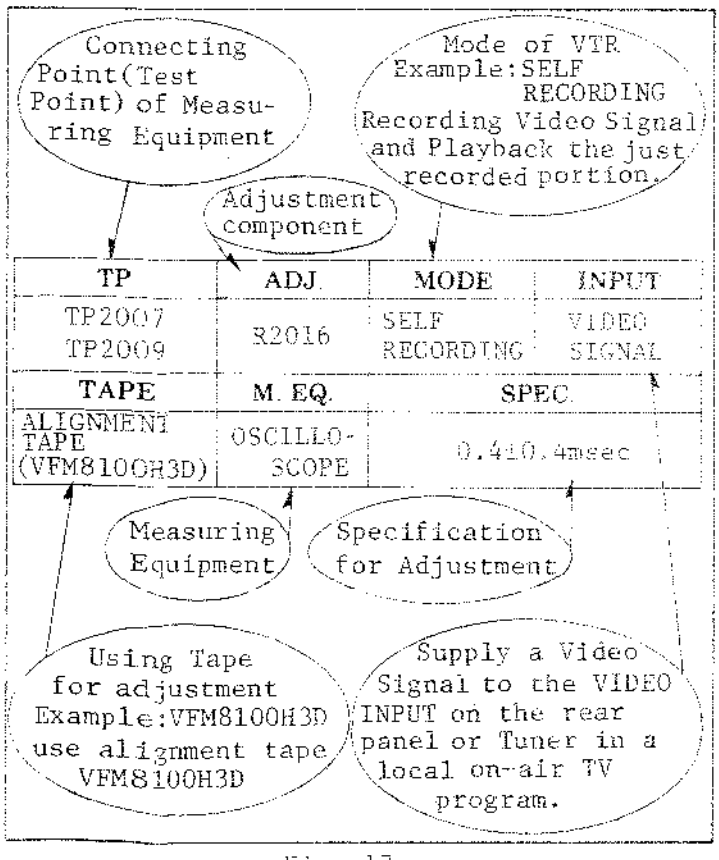


Fig. 17

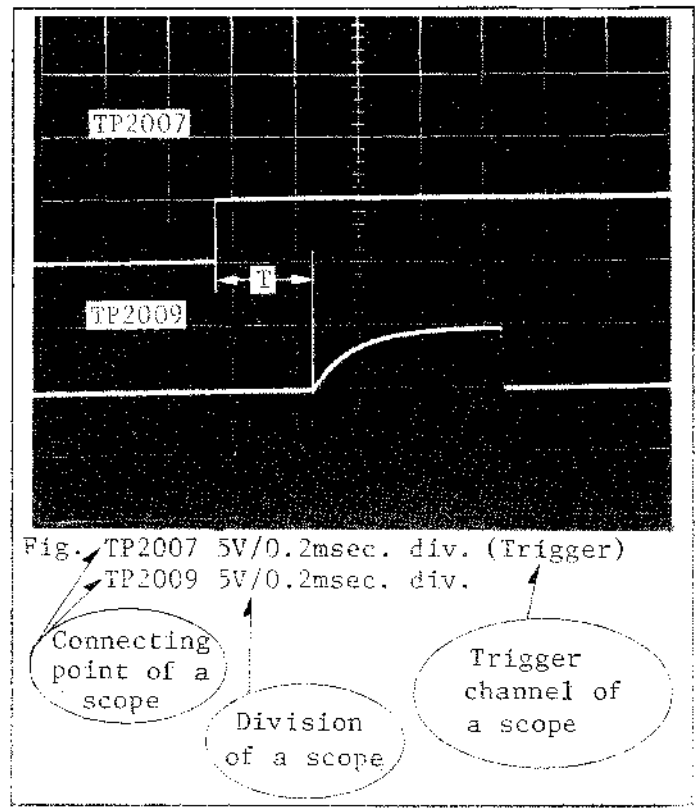


Fig. TP2007 5V/0.2msec. div. (Trigger)
TP2009 5V/0.2msec. div.

Fig. 18

POWER SUPPLY SECTION

2-2-3. REG +5V ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP1001	R1003	STOP	
TAPE	M. EQ.	SPEC.	
	D.V.M	5.1±0.1V	

SERVO SECTION

2-2-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2007 TP3001	R2018	PLAY	
TAPE	M EQ.	SPEC.	
ALIGNMENT TAPE (VFM8100H3D)	OSCILLO-SCOPE	6.5±0.5H	

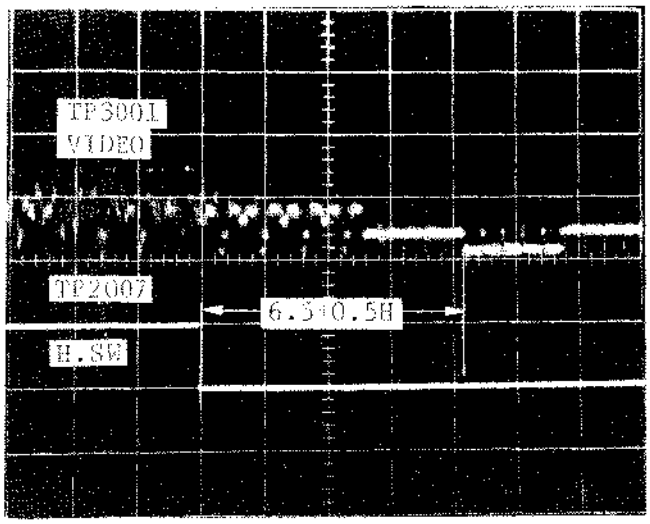


Fig. 19 TP3001 2V/0.1msec.div.
TP2007 5V/0.1msec.div.(Trigger)

2-2-5. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2007 TP2009	R2016	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T=0.4±0.4msec	

1. TRACKING VR is center fix position.
2. Playback the just recorded portion.
3. Adjust R2016 for 0.4±0.4msec. as shown below.

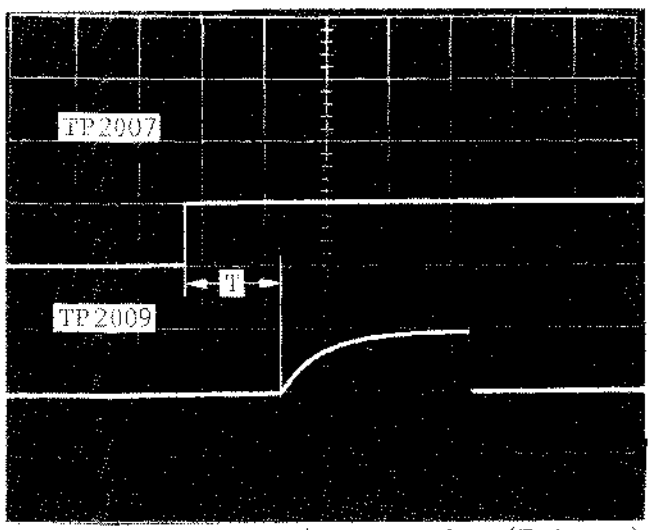


Fig. 20 TP2007 5V/0.2msec.div.(Trigger)
TP2009 5V/0.2msec.div.

2-2-6. NOISE SHIFT PULSE PHASE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2007 TP2014	R2066	STILL	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	2±0.1msec	

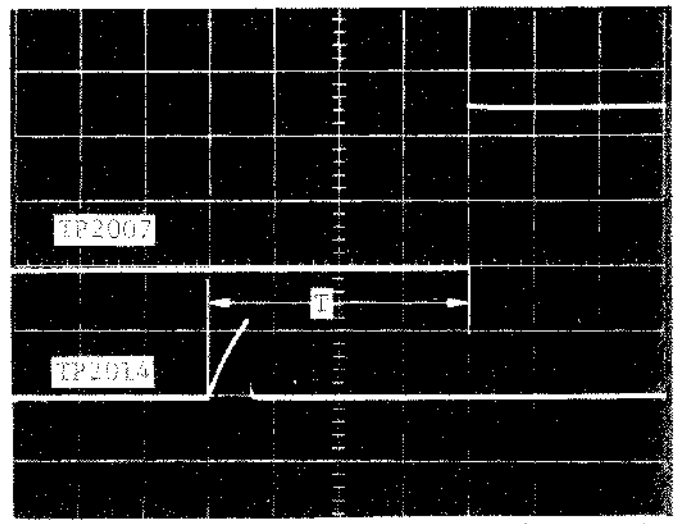


Fig. 21 TP2007 2V/0.5msec.div.(Trigger)
TP2014 2V/0.5msec.div.

2-2-7. ARTIFICAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2007 TP2010	R2072 R2085	STILL CUE/REV	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE	OSCILLO-SCOPE	A=272±25μsec B=144±25μsec	

1. Adjust R2072 for the period "A" as 272±25μsec. during PLAY. STILL mode as shown below.

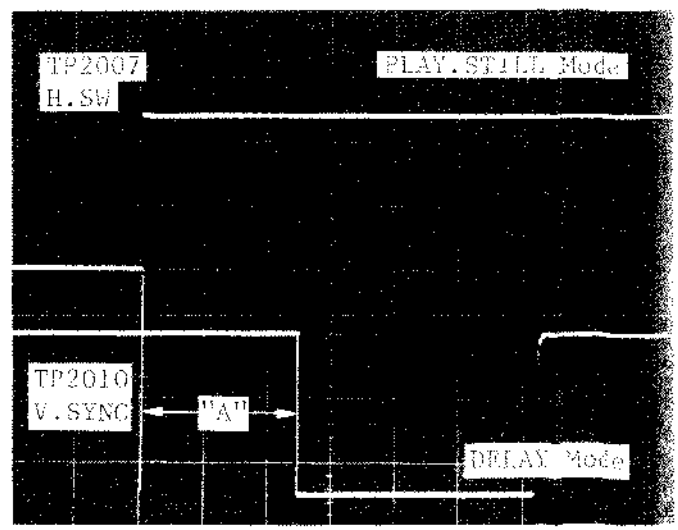


Fig. 22 TP2007 2V/0.1msec. div.(Trigger)
TP2010 2V/0.1msec. div.

2. Adjust R2085 for the period "B" as 144±25μsec.during CUE or REV mode as shown below.

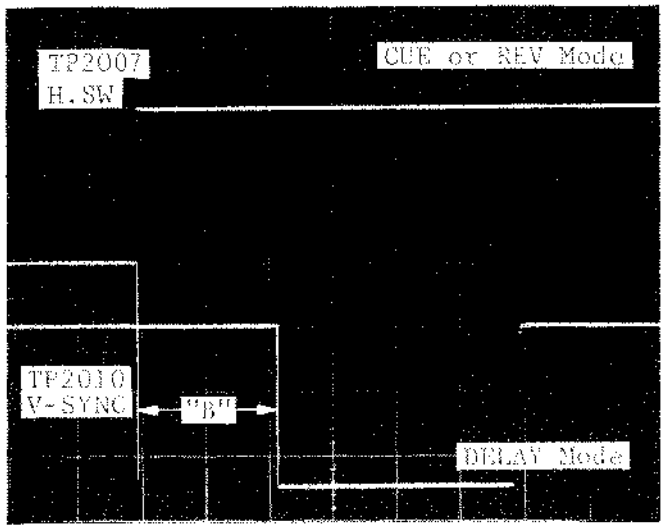


Fig. 23 TP2007 2V/50μsec.div.(Trigger)
TP2010 2V/50μsec.div.

LUMINANCE, CHROMINANCE & HEAD AMP SECTION

2-2-8. LUMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3506(HOT) TP3505(GND)	R3521	REC.PLAY	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	130±5mVp-p	

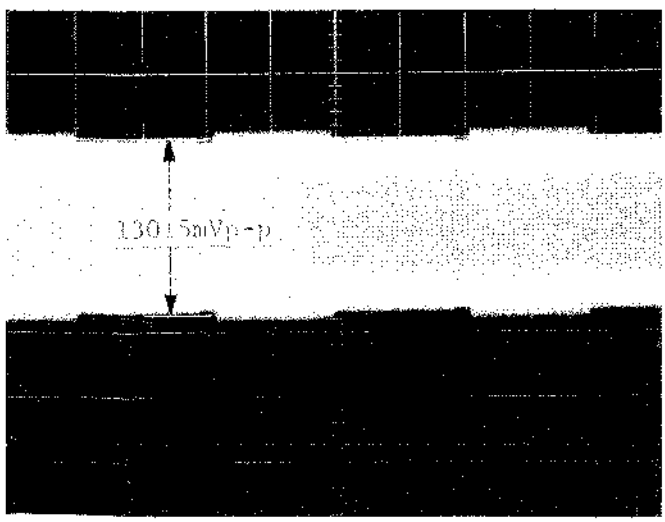


Fig. 24 TP3506 50mV/5msec.div.

2-2-9. CONFIRMATION OF CHROMINANCE REC. CURRENT

TP	ADJ.	MODE	INPUT
TP3506(HOT) TP3505(GND)		REC.PLAY	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	28±2mVp-p	

1. Connect a jumper wire between TP3509 and GND.

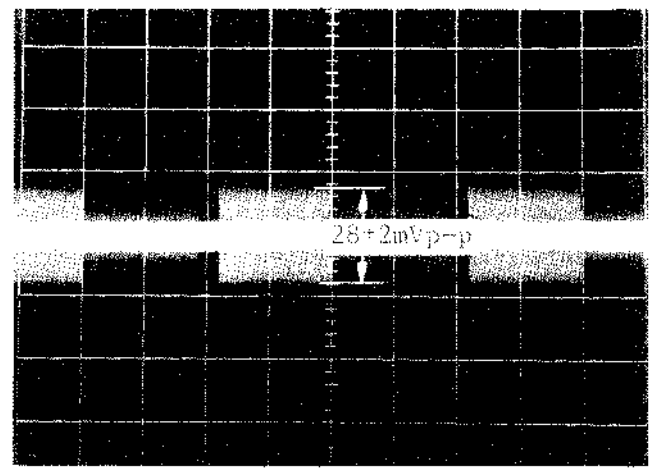


Fig. 25 TP3506 20mV/5msec.div.

2-2-10. VIDEO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT	R3575	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	2.0±0.1Vp-p(Y-LEVEL) 1.1±0.15Vp-p(CYAN-LEVEL)	

1. Playback the just recorded portion.
2. Adjust R3575 for Y-level and confirm cyan level as shown below.

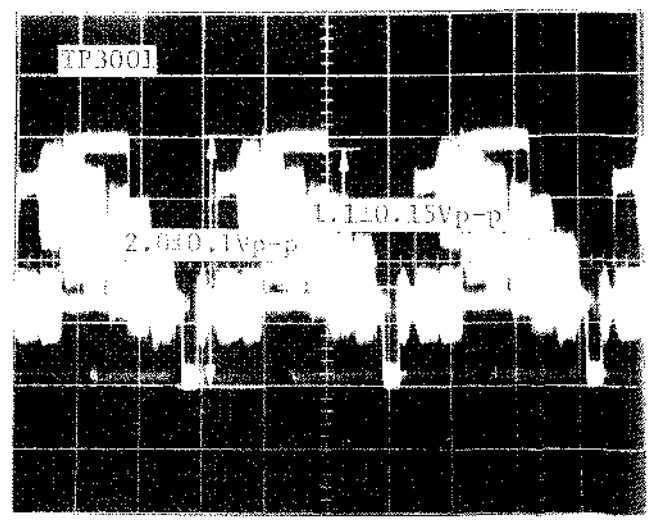
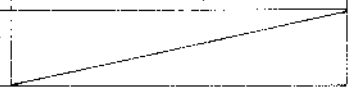


Fig. 26 TP3001 0.5V/20μsec.div.

2-2-11. LINE MUTUAL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3051	R3056	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE		

1. Playback the just Recorded portion.
2. Adjust R3056 so that the level of the sync tip to white peak becomes minimum as shown below.

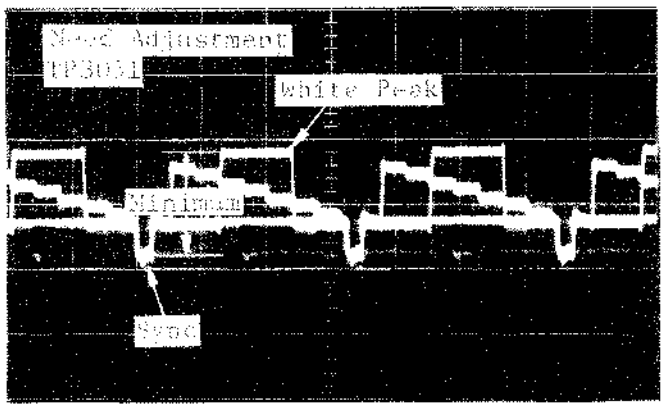


Fig. 27 TP3051 100mV/20μsec.div.

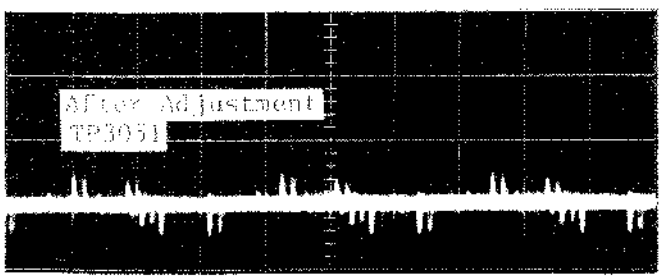


Fig. 28 TP3051 100mV/20μsec. div.

2-2-12. HEAD AMP PEAK FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3503	C3554,C3555, C3556,R3552, R3553,R3556	PLAY & PLAY. STILL	VIDEO SWEEP (TP3506, TP3508)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	VIF SWEEP OSCILLOSCOPE	2MHz:4.6MHz=1:3	

1. Set the sweep generator output to 100mVp-p at no load and set the marker output at 2MHz and 4.6MHz.

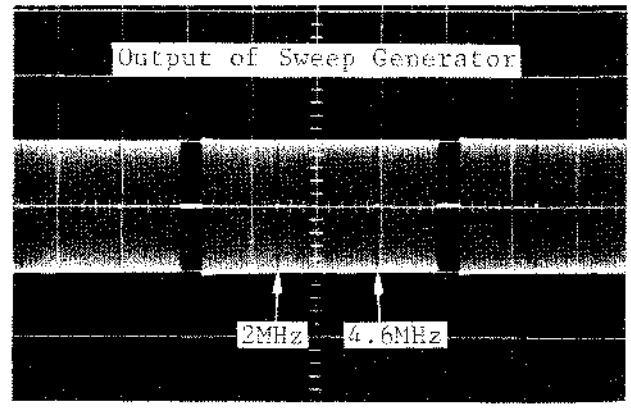


Fig. 29 20mV/5msec.div.

2. Supply sweep generator output to the TP3506 and TP3508 through the 30KΩ resistors as shown below.

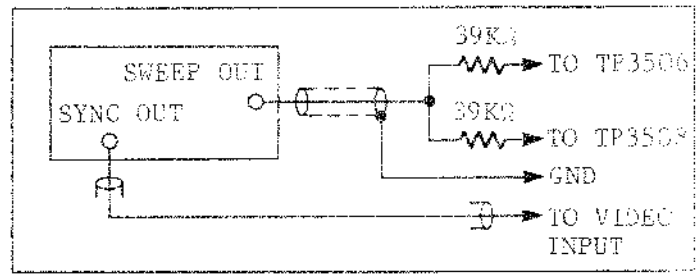


Fig. 30

3. Connect the oscilloscope to TP3503 through Filter Circuit as shown below.

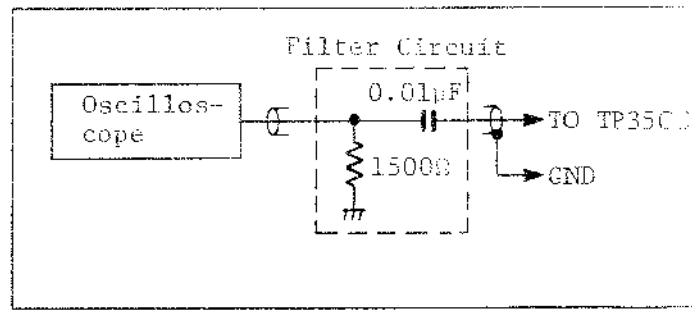


Fig. 31

4. Adjust R3552 (Q-R) and R3556(Q-L) for the envelopes of both channels as shown below in PLAY mode.

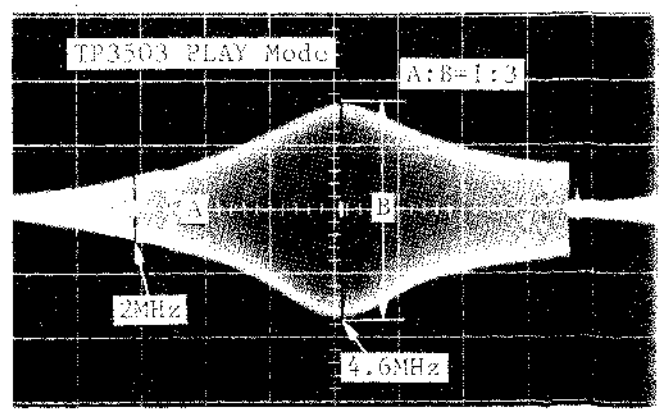


Fig. 32 TP3503 0.5V/2msec.div.

5. Adjust C3555 (PEAK-R) and C3556 (PEAK-L) so that the peak points become 4.6MHz as shown below in PLAY mode.

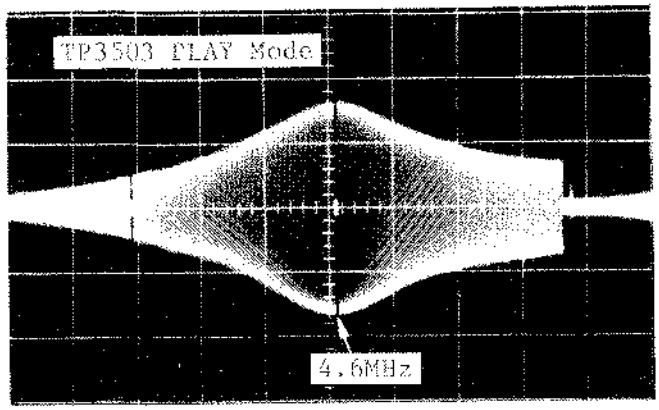


Fig. 33 TP3503 0.5V/2msec.div.

6. Adjust R3553 (Q-L') for the envelope as shown below in PLAY.STILL mode.

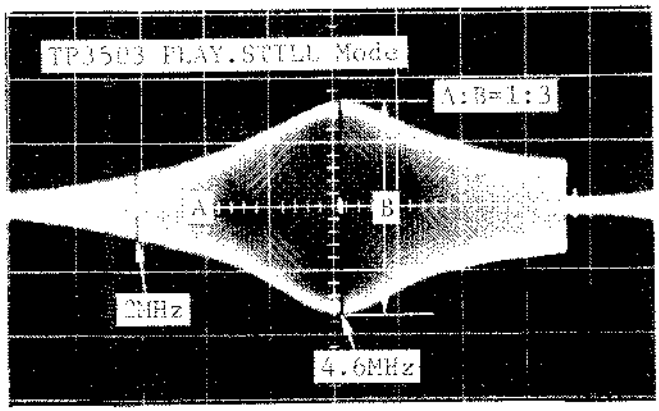


Fig. 34 TP3503 0.5V/2msec.div.

7. Adjust C3554 (PEAK-L') so that the peak point becomes 4.6MHz as shown below in PLAY.STILL mode.

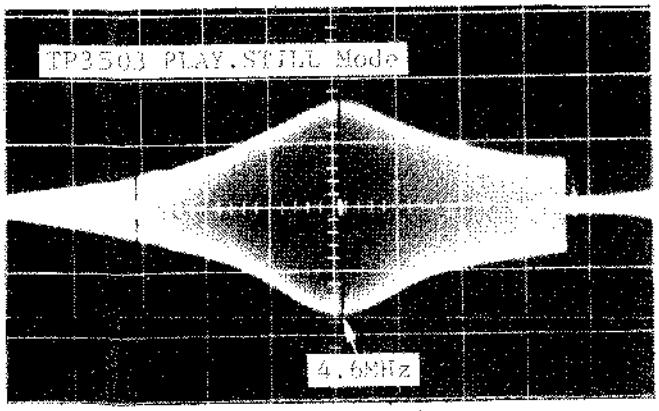


Fig. 35 TP3503 0.5V/2msec.div.

2-2-13. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3001	R3552 R3553 R3556	SELF RECORDING	VIDEO SWEEP

TAPE	M. EQ.	SPEC.
BLANK TAPE	VIDEO SWEEP, OSCILLOSCOPE	

1. Set the sweep generator output as shown below.

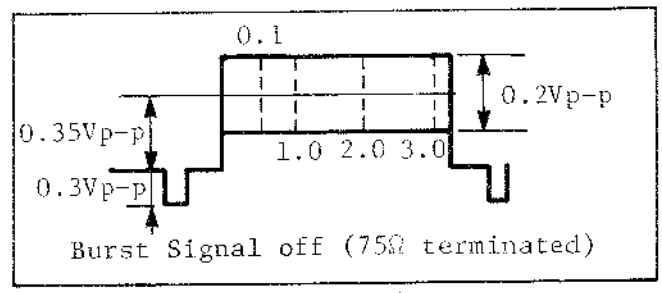


Fig. 36

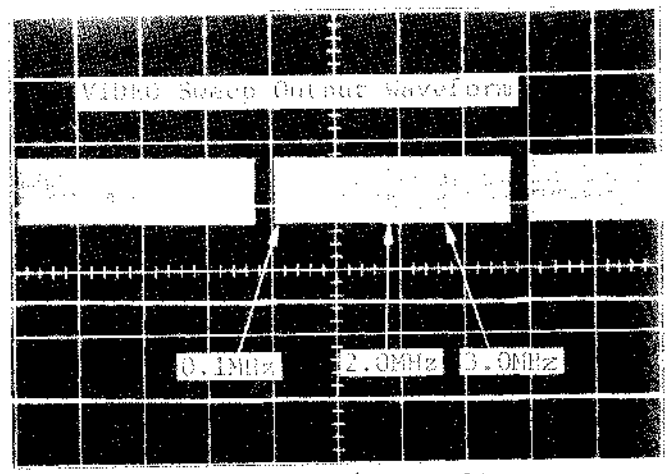


Fig. 37 0.2V/5msec.div.

2. PICTURE VR is center fix position.
3. Playback the just recorded portion.
4. Adjust R3552 and R3556 so that the waveforms become as shown below.

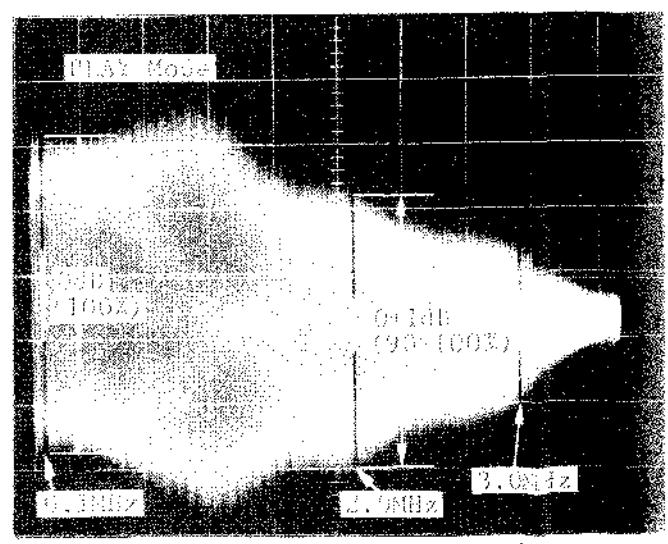


Fig. 38 TP3001 100mV/2msec.div.

2-2-14. SECAM KILLER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP8005	L8009	REC.PLAY	SECAM SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE		

1. Adjust L8009 so that the point "A" becomes minimum peak on the waveform as shown below.

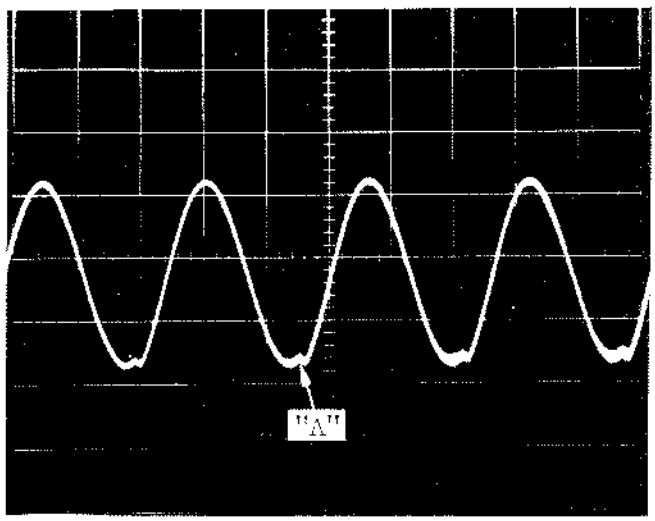


Fig. 39 TP8005 2V/50μsec.div.

AUDIO SECTION

2-2-15. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002(+) TP4003(-)	R4018	REC.PLAY	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	4.0±0.1mVrms	

2-2-16. PLAYBACK AUDIO SW ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2007 TP2013	R2073	SELF RECORDING	1KHz,0dB
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR, OSCILLO-SCOPE	6.67±0.05ms.	

1. Set the Input Select SW of the deck to AUDIO mode.
2. Connect the signal Generator output to the both Input Jacks Ⓛ and Ⓡ.
3. Adjust R2073 for the period "T" becomes 6.67±0.05ms.
4. Confirm that the sounds on CH-1 and CH-2 do not contain beat noise.

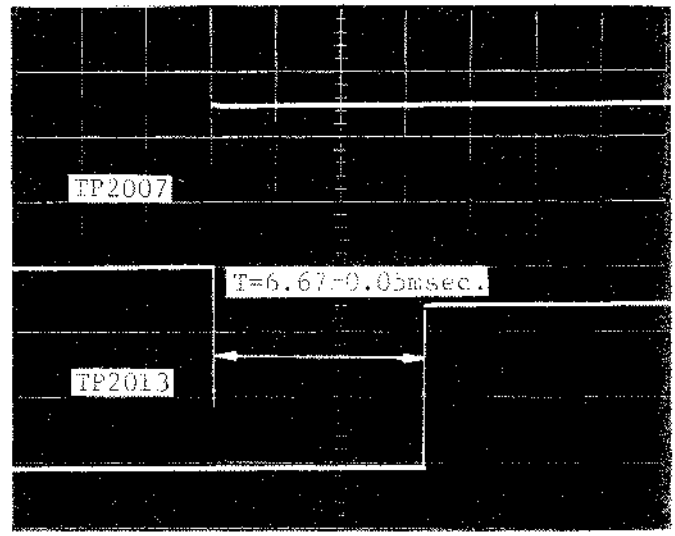


Fig. 40 TP2007 2V/2msec.div.(Trigger)
TP2013 2V/2msec.div.

2-2-17. AUDIO AGC CHANNEL BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT	R4329	STOP	1KHz,0dB
TAPE	**M. EQ.**	**SPEC.**	
	V.T.V.M.	400±60mVrms	

1. Set the mode select sw of the deck to the STEREO (Ch1+Ch2) mode and Recording level volume is AGC position.
2. Adjust R4329 so that the LINE OUT level is less than 0.5dB, compared with input level.
3. Confirm the E-E level for 400±60mVrms.

2-2-18. AUDIO RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4507(HOT) TP4508(GND)	R4612	REC.PLAY	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	250±10mVp-p	

2-2-19. FM AUDIO CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4504 TP4509	R4503 (CH-1) R4597 (CH-2)	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	1.4MHz±10KHz(CH-1) 1.8MHz±10KHz(CH-2)	

2-2-20. AUDIO DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4502(CH-1) TP4521(CH-2)	R4516 R4586	REC.PLAY	1KHz,0dB
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR D.V.M.	33±3mV-AC	

1. Adjust R4516 so that the CH-1 Audio deviation level becomes 33±3mV-AC.
2. Adjust R4586 so that the CH-2 Audio deviation level becomes 33±3mV-AC.

2-2-21. AUDIO RECORDING OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT	R4006 R4541 R4593	SELF RECORDING	1KHz,0dB AUDIO SIGNAL VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.		

1. Set the Recording level volume is ACC position.
2. Playback the just Recorded portion.
3. Adjust R4006 (P.B.LEV.) at the normal position of the sound track select button, R4541 (FM AUDIO: CH-1) and R4593 (FM AUDIO: CH-2) at the "L+R" position of the sound track select button, so that the Playback level is less than ±0.5dB, compared with E-E level in each mode (P.B.LEV., FM Audio CH-1 and 2).

2-2-22. NOISE REDUCTION TIMING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4505(HOT) TP4511(GND)	R4572	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	D.V.M.	15±0.15mV	

2-2-23. AUDIO MUTING ADJUSTMENT

TP	ADJ.	MODE	INPUT
	R4568	SELF RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE			

1. Set the Hi-Fi sound SW to "L+R" mode and the Recording level volume is AGC position.
2. Playback the just Recorded portion.
3. Adjust the Tracking VR so that the Audio Tracking level becomes maximum.
4. First Re-adjust R4568 until the L+R indication on the Front panel turns OFF.
5. Then slowly adjust R4568 where the L+R indication just turns ON.
6. Confirm that the sounds on CH-1 and CH-2 do not contain abnormal sound.

OPERATION SECTION

2-2-24. OPERATION CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP6501	R6515	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	22.0±0.1KHz	

1. Disconnect the AC plug of the deck and connect a jumper wire between TP6502 and GND.
2. Connect the AC plug and Adjust R6515 for 22.0±0.1KHz as shown below.

TIMER & CHANNEL PRESET SECTION

2-2-25. TIMER RESET ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7501	R7509		
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE DC POWER SUPPLY	7.8msec	

1. Set the voltage of the DC POWER SUPPLY for 3.7±0.05V DC then connect the DC POWER SUPPLY to TP7504.
2. Adjust R7509 for 7.8msec. (128Hz) as shown below.

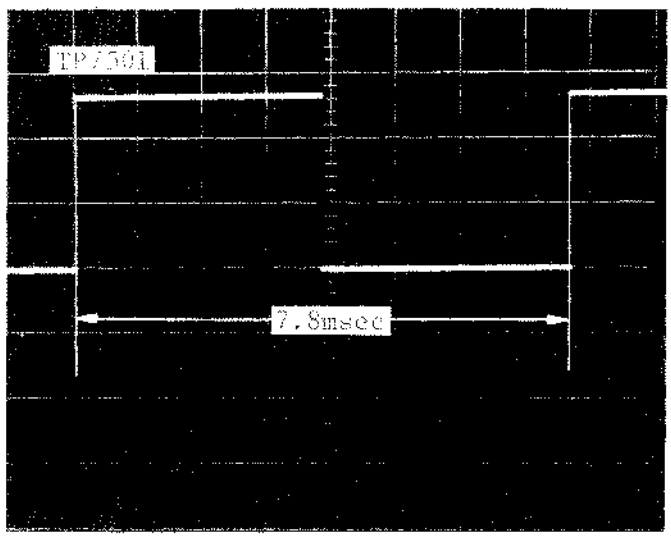


Fig. 41 TP7501 2V/1msec.div.

2-2-26. TIMER RESET VOLTAGE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7501	R7535		
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE DC POWER SUPPLY		

1. Connect a jumper wire between TP7504 and TP7505.
2. Set the voltage of the DC POWER SUPPLY for 4.6±0.05V and connect the DC POWER SUPPLY to TP7505.
3. Adjust R7535 for 62msec. (16Hz) as shown in Fig. 42.

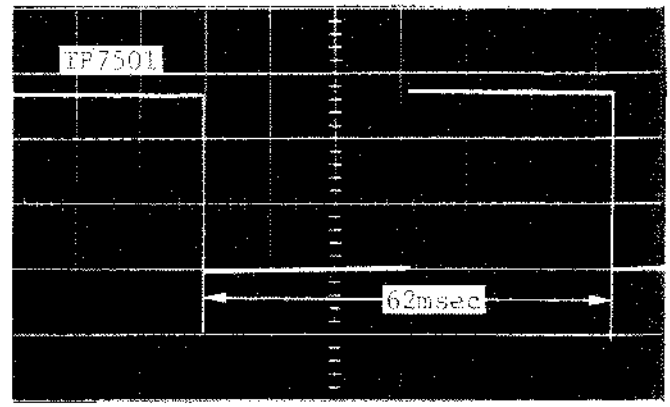


Fig. 42 TP7501 2V/10msec.div.

4. Set the Voltage of the DC POWER SUPPLY for 4.8±0.05V.
5. Confirm the frequency for 7.8msec(128Hz) as shown below.

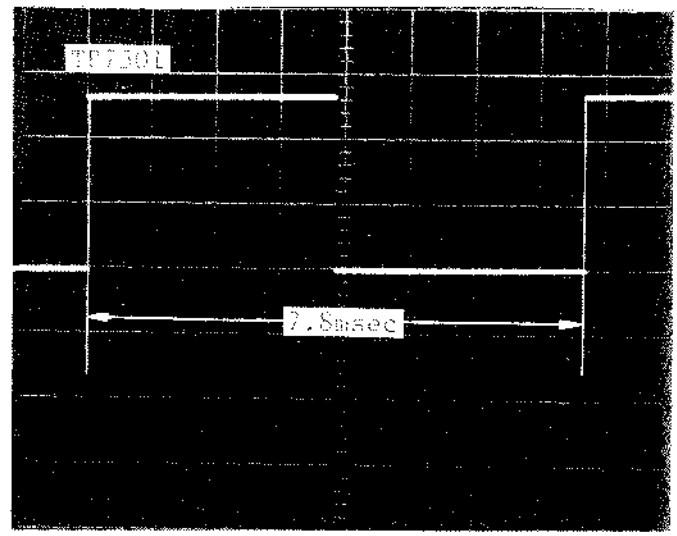


Fig.43 TP7501 2V/1msec.div.

2-2-27. TIMER CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7501	C7502		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	128Hz	

1. Set the voltage of the DC POWER SUPPLY for 6.0±0.1V and connect the DC POWER SUPPLY to P7502-6.
2. Adjust C7502 for 128Hz.

TV DEMODULATOR SECTION

Model No.: NV-850EG

2-2-28. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. VIF Sweep Generator with the Trap Adjustor 38.9MHz
2. CW Oscillator .....38.9MHz ±100KHz
3. Monitor Scope
4. Oscilloscope
5. Digital Volt Meter

2-2-29. SELECTIVE COIL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP714	T704 T705		VIF SWEEP
TAPE	M. EQ.	SPEC.	
	VIF SWEEP MONITOR SCOPE	A=1.0Vp-p B=38.9MHz	

1. Connect a jumper between TP713 and GND.
2. Set the BAND SW of the deck to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V.
3. Connect the VIF Sweep to TP711 and connect the Monitor Scope to TP714 as shown below.

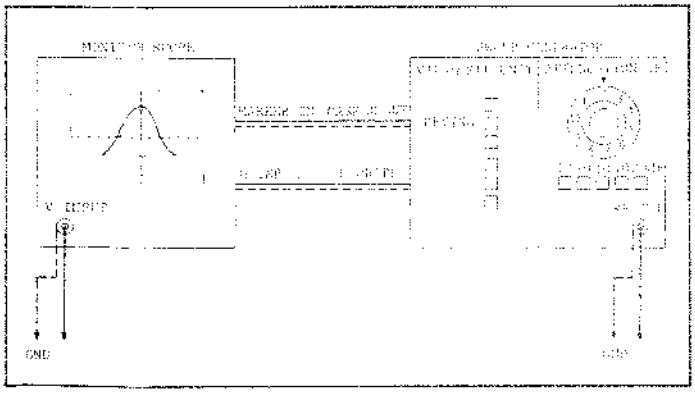


Fig. 44 Connection of Measuring Equipment

4. Connect the JIG to Both points TP701 and P704-6 as shown in Fig. 45.

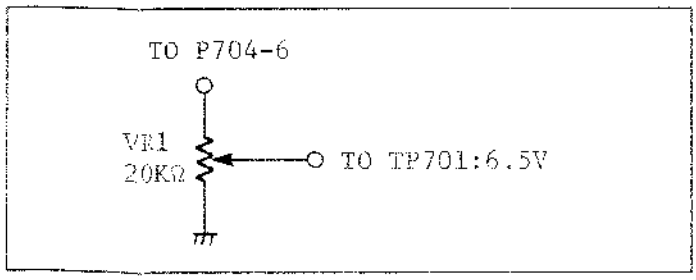


Fig. 45

5. Adjust the VIF Sweep output so that the 1.0Vp-p.
6. Adjust T704 so that the 38.9MHz becomes peak point as shown below.

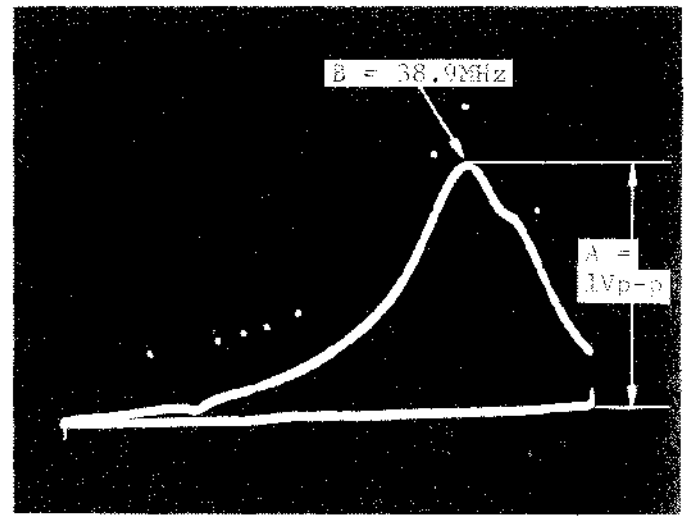


Fig. 46

7. Adjust T705 so that the marker port portion at 38.9MHz becomes as shown below.

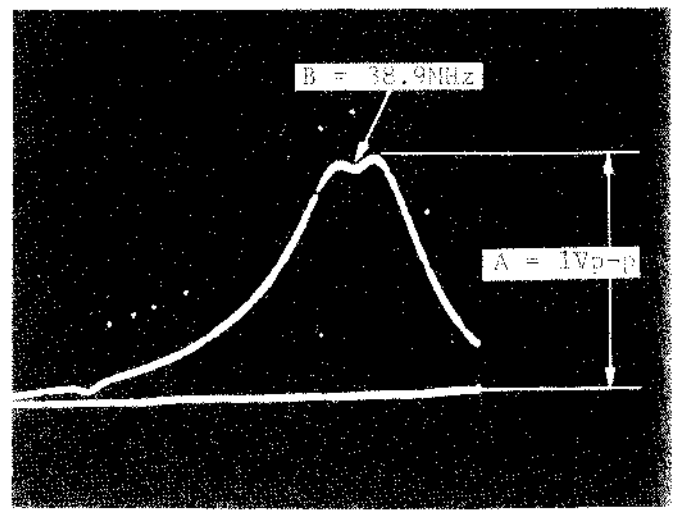


Fig. 47

2-2-30. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP714	T701 T702		VIF SWEEP
TAPE	M. EQ	SPEC.	
	VIF SWEEP MONITOR SCOPE		

1. Connect a jumper between TP713 and GND.
2. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V.
3. Connect the VIF Sweep to Test Point of the Tuner and connect the Monitor Scope to TP714 as shown in Fig. 44.
4. Connect the 100Ω resistor between TP704 and TP705.
5. Adjust the VIF Sweep output so that the 1.0Vp-p.
6. Release 20dB attenuation from the attenuator of the VIF Sweep.
7. Adjust T702-B so that the 40.4MHz trap becomes minimum.
8. Adjust T701 so that the 31.9MHz trap becomes minimum.
9. Adjust T702-C so that the 33.4MHz trap becomes minimum.
10. Connect the JIG to both points P704 -6 and TP701 as shown in Fig. 45.
11. Adjust the Tuner converter coil and T702-A so that the sweep output waveform becomes as follows.

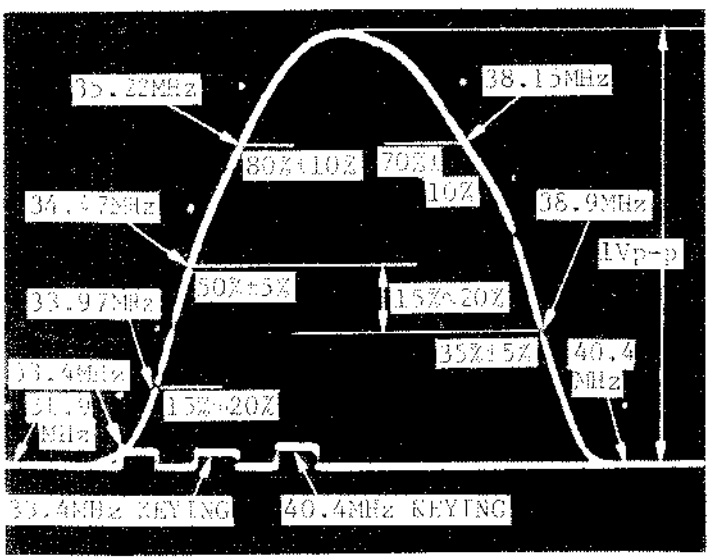


Fig. 48

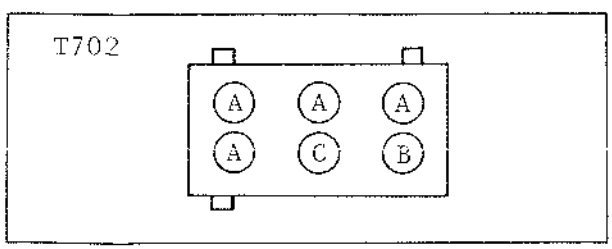


Fig. 49

2-2-31. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP703	T705		CW SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	D.V.M. CW OSCI- LLATOR	6.5V±0.3V	

1. Set the BAND SW to the VHF high position (VH), and turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V.
2. Set the CW Oscillator output to 38.9 MHz 1Vp-p and connect the CW Oscillator output to the Tuner Test point.
3. Connect the D.V.M. to TP703.
4. Confirm the reading "A" of the D.V.M. is 6.5V, when the AFC switch is off.
5. Set the AFC switch to "ON" and adjust T705 for "6.5V±0.3V".
6. Change the frequency of the CW Oscillator ±100KHz, centered at 38.9MHz and confirm that the difference of the AFC voltage is more than ±3V.

2-2-32. CARRIER TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T707 T706 T712		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP MONITOR SCOPE		

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V.
2. Connect a jumer between TP713 and GND.
3. Connect the VIF Sweep output to Tuner Test Point and connect the Monitor Scope to TP707.
4. Adjust the VIF Sweep output so that the level of it becomes 1.0Vp-p.
5. Release 20dB attenuation from the attenuator of the VIF Sweep.
6. Connect the JIG to both points TP701 and P704-6 as shown in Fig. 45 and adjust the VR1 so that the level of it becomes 1.0 Vp-p.
7. Adjust T707 so that the marker portion at 38.9MHz is peak of the wave as shown next page.

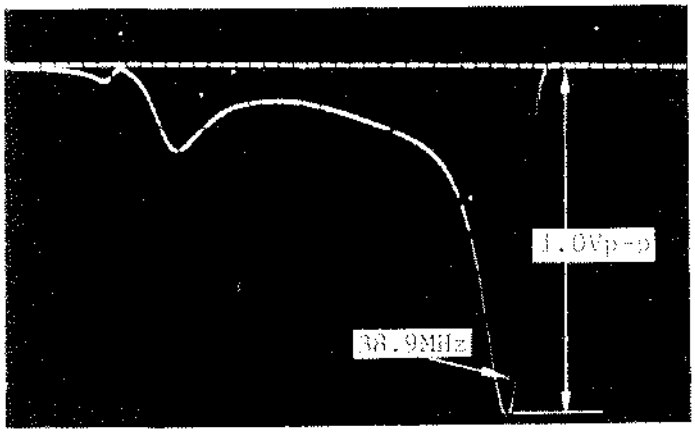


Fig. 50

8. Connect the 100Ω resistor between TP708 and TP709 and remove the JIG.
9. Adjust the output of the VIF Sweep Generator so that the level of waveform becomes 1.0Vp-p.
10. Release 20dB attenuation from the attenuator of the VIF Sweep and connect the JIG.
11. Adjust the VR1 so that the level of waveform becomes 1.0Vp-p.
12. Adjust T706-B so that the 40.4MHz trap becomes minimum.
13. Adjust T706-C so that the 31.9MHz trap becomes minimum.
14. Adjust T712 so that the trap becomes at 33.4MHz portion of the VIF waveform as shown below.
15. Adjust T706-A1, T706-A2, T706-A3 and T706-A4 so that the waveform becomes as shown below.

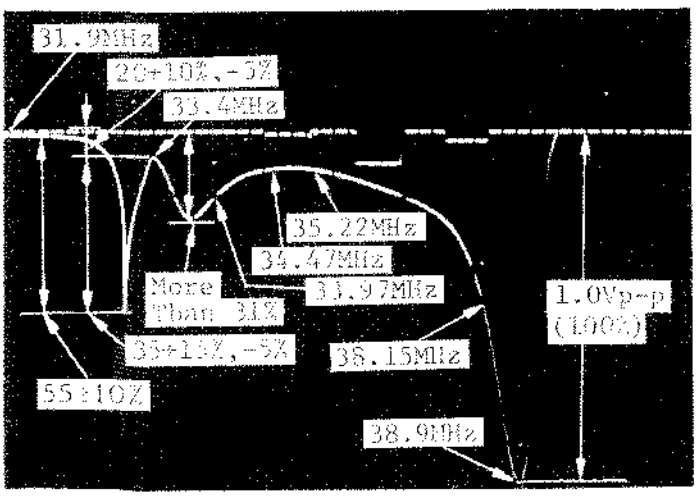


Fig. 51

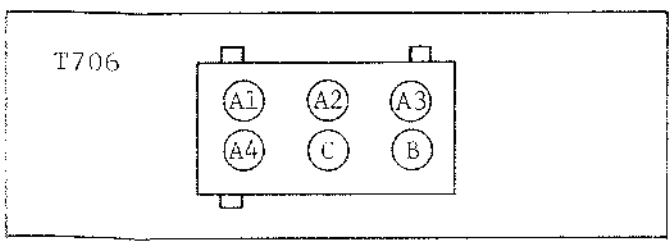


Fig. 52

2-2-33. BURST LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP702	R736		RF COLOUR BAR SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	240mV±10mVp-p	

1. Set the BAND SW to High Position
2. Tune in the VHF RF Colour Bar signal.
3. Adjust R736 so that the burst level becomes 240mV±10mVp-p.

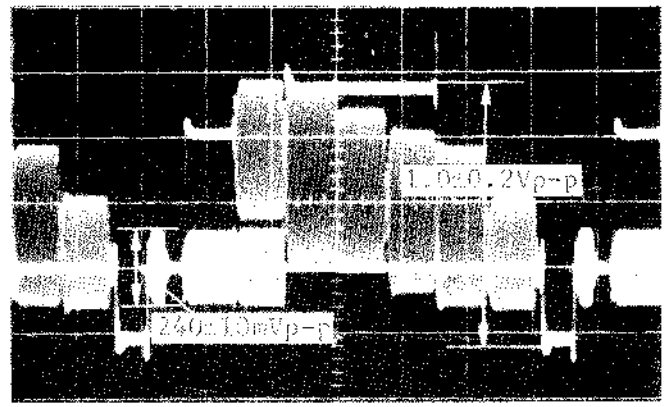


Fig. 53

TV DEMODULATOR SECTION

Model No.: NV-850E

2-2-34. TEST EQUIPMENTS

To make adjustments completely, following equipments are recuired.

1. VIF Sweep Generator with the Trap Adjustor 38.9MHz
2. SIF Sweep Generator ..... 5.5MHz ± 150KHz
3. CW Oscillator ..... 38.9MHz ± 100KHz
4. Digital Volt Meter
5. Oscilloscope
6. Monitor Scope

2-2-35. SELECTIVE COIL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703 T704		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP MONITOR SCOPE	A=2.0Vp-p B=38.9MHz	

1. Set the BAND SW of the deck to the VHF high position(VH) and turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V.
2. Connect the VIF Sweep to TP703 and connect the Monitor Scope to TP707 as shown in Fig. 44.

3. Connect the JIG to both points P704-6 and TP701 as shown in Fig. 54 and adjust VR1 so that the Sweep output becomes 2.0Vp-p.
4. Adjust T703 so that the 38.9MHz becomes peak point as shown in Fig. 55.

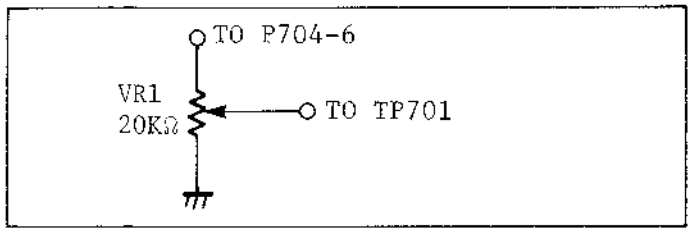


Fig. 54

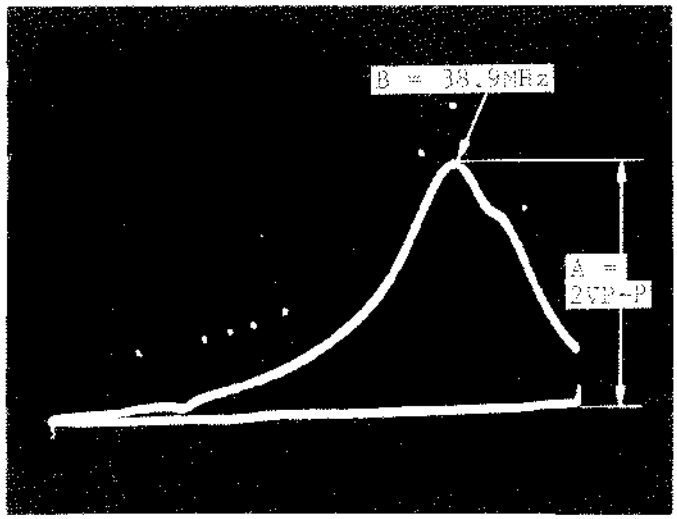


Fig. 55

5. Adjust T704 so that the marker portion at 38.9MHz becomes as shown below.

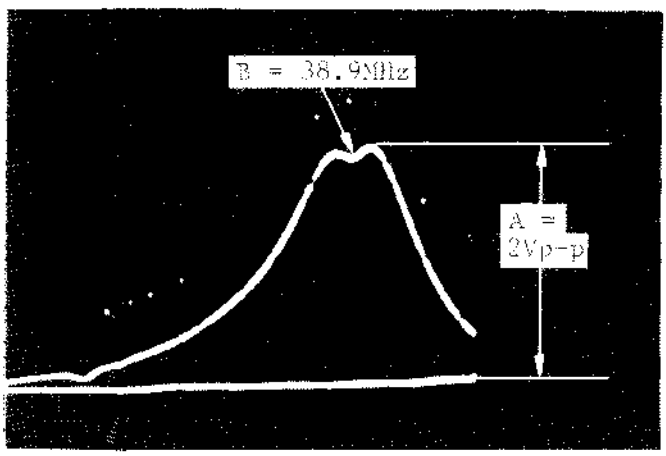


Fig. 56

2-2-36. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T701 T702		VIF SWEEP
TAPE	M. EQ.	SPEC.	
	VIF SWEEP MONITOR SCOPE		

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuning becomes 15V.
2. Connect the VIF Sweep to Test Point of the Tuner and connect the Monitor Scope to TP707 as shown in Fig. 44.
3. Connect a jumper between TP701 and GND.
4. Connect the 100Ω resistor between TP704 and TP705.
5. Adjust the VIF Sweep output so that the 1.0Vp-p.
6. Release 20dB attenuation from the attenuator of the VIF Sweep.
7. Connect the JIG to both points P704-6 and TP709 as shown in Fig. 54 and adjust VR1 so that the Sweep output becomes 1.0Vp-p.
8. Adjust T702 so that the 33.4MHz trap becomes minimum.
9. Adjust T701 so that the 40.4MHz trap becomes minimum.
10. Adjust the Tuner converter coil and T701 so that the sweep output waveform becomes as follows.

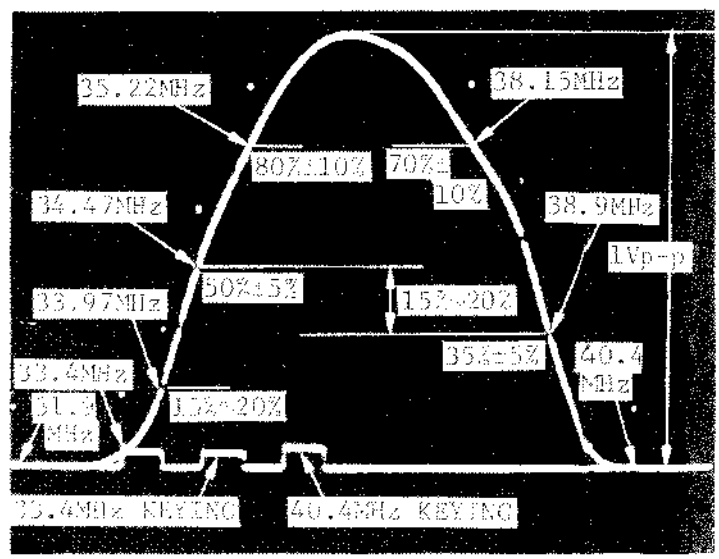
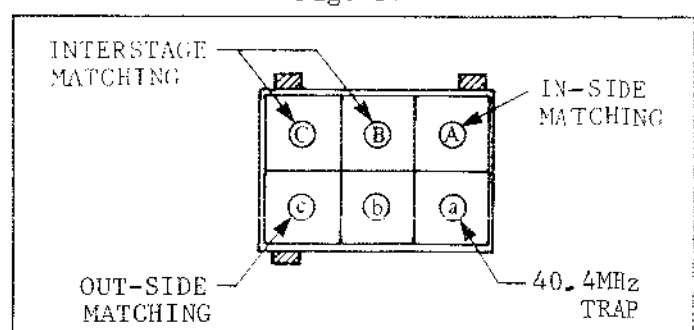


Fig. 57



* B coil for Interstage Matching is preset, so the adjustment is not required normally.

Fig. 58 HLB Transformer T701

2-2-37. SIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP710	T751 T752		SIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	SIF SWEEP D.V.M. MONITOR SCOPE		

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuning becomes 15V.
2. Connect the JIG to both points P704-6 and TP701 and Adjust the VR1 to 4V.
3. Adjust the SIF Sweep output to 700mVp-p (75Ω open).
4. Connect the sweep to TP706 and connect the Monitor Scope to TP710.
5. Turn R755 fully maximum.
6. Adjust T752 so that the attenuation of 5.5MHz trap becomes minimum.
7. Adjust T751 for maximum peak-to-peak amplitude of response "S" curve as shown below.

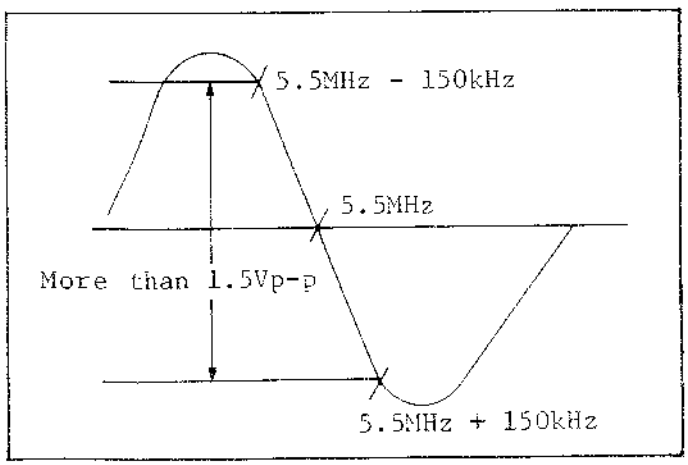


Fig. 59 SIF Waveform

8. Confirm that the level between the 150KHz marker position is more than 1.5Vp-p.

2-2-38. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TUNER TP TP702	T704		CW OSC
TAPE	**M. EQ.**	**SPEC.**	
	CW OSCI- LLATOR D.V.M.	A±0.3V	

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuning becomes 15V.
2. Set the CW oscillator so that the 38.9 MHz CW signal becomes 1Vp-p.
3. Supply this signal to the Tuner Test Point.
4. Connect the Digital Voltmeter to the Tuner AFC terminal TP702.
5. Confirm the reading of the D.V.M., "A" is between 6.4V and 6.8V, when the AFC switch is off.
6. Set the AFC switch is "ON".
7. Adjust T704 so that the level at the Tuner AFC terminal TP702 becomes "A ±0.3V".
8. Change the frequency of the CW oscillator ±100KHz, centered at 38.9MHz and confirm that the difference of the AFC voltage is more than ±3V.

2-2-39. BURST LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP711	R728		RF COLOUR BAR SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO- SCOPE	240mVp-p	

1. Set the BAND SW to High Position.
2. Tune in the VHF RF Colour Bar Signal.
3. Adjust R728 so that the burst level becomes 240mV ± 10mVp-p.

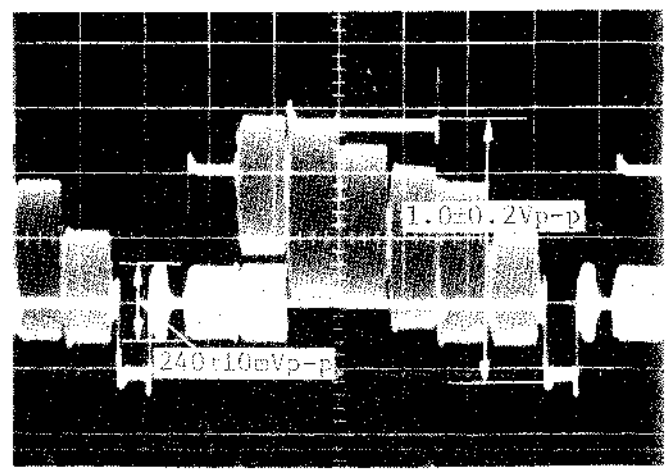


Fig. 60

TV DEMODULATOR SECTION

Model No.: NV-850B

2-2-40. TEST EQUIPMENTS

To make adjustments completelu, following equipments are required.

1. VIF Sweep Generator with the Trap Adjustor 39.5MHz
2. SIF Sweep Generator ..... 6.0MHz ± 150KHz
3. CW Oscillator ..... 39.5MHz ± 100KHz
4. Digital Volt Meter
5. Oscilloscope
6. Monitor Scope

2-2-41. SELECTIVE COIL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703 T704		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP MONITOR SCOPE	A=2.0Vp-p B=39.5MHz	

1. Set the BAND SW of the deck to the VHF high position(VH) and turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V.
2. Connect the VIF Sweep to TP703 and conect the Monitor Scope to TP707 as shown in Fig. 44.
3. Connect the JIG to both points P704-6 and TP701 as shown Fig. 61 and adjust VR1 so that the Sweep output becomes 2.0Vp-p.
4. Adjust T703 so that the 39.5MHz becomes peak point as shown below.

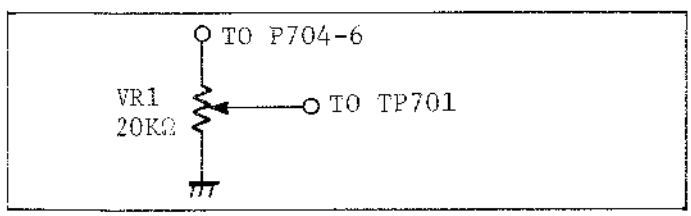


Fig. 61

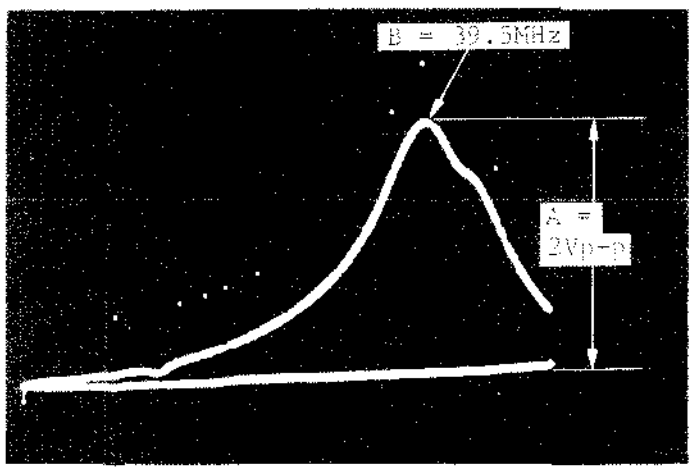


Fig. 62

5. Adjust T704 so that the marker portion at 39.5MHz becomes as shown below.

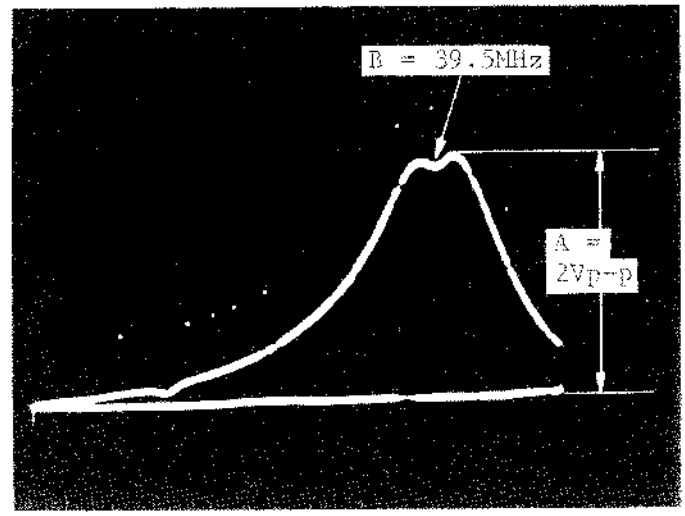


Fig. 63

2-2-42. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T701 T702		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP MONITOR SCOPE		

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuning becomes 15V.
2. Connect the VIF Sweep to Test Point of the Tuner and connect the Monitor Scope to TP707 as shown in Fig. 44.
3. Connect a jumper between TP701 and GND.
4. Connect the 100Ω resistor between TP704 and TP705.
5. Adjust the VIF Sweep output so that the 1.0Vp-p.
6. Release 20dB attenuation from the attenuator of the VIF Sweep.
7. Connect the JIG to both points P704-6 and TP709 as shown in Fig. 54 and adjust VR1 so that the Sweep output becomes 1.0Vp-p.
8. Adjust T702 so that the 31.5MHz trap becomes minimum.
9. Adjust T701 so that the 41.5MHz trap becomes minimum.
10. Adjust the Tuner converter coil and T703 so that the sweep output waveform becomes as follows.

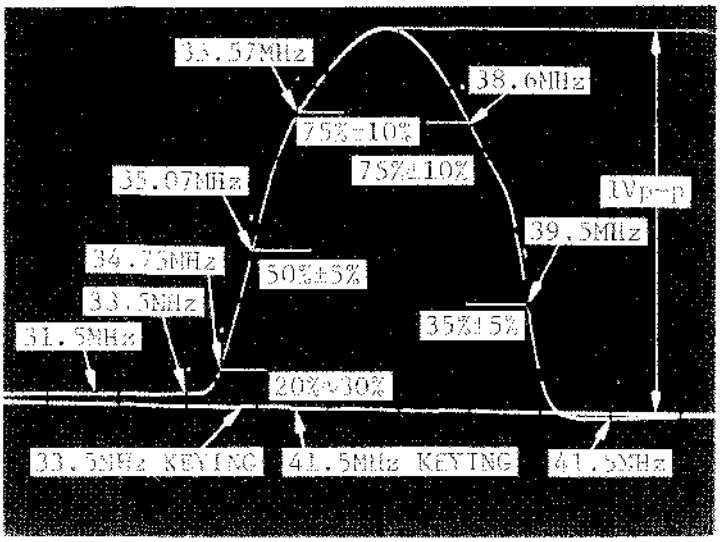
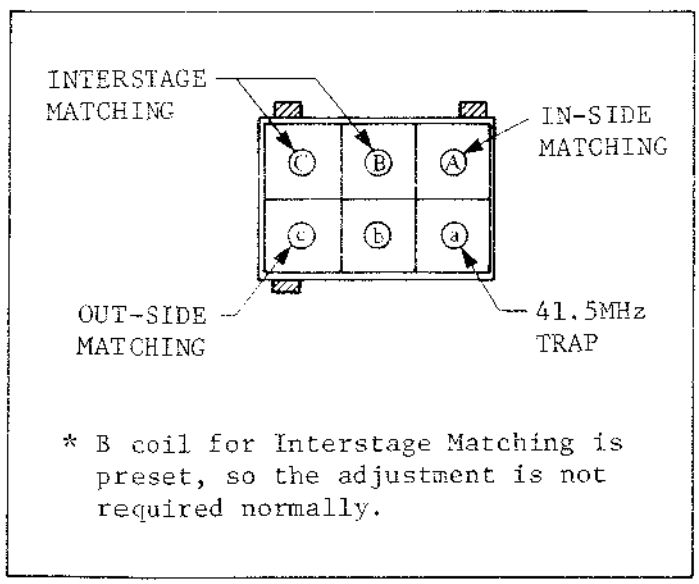


Fig. 64



* B coil for Interstage Matching is preset, so the adjustment is not required normally.

Fig. 65 HLB Transformer T701

2-2-43. SIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP710	T751 T752		SIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	SIF SWEEP D.V.M. MONITOR SCOPE		

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuning becomes 15V.
2. Connect the JIG to both points P704-6 and TP709 and adjust the VR1 to 4V.
3. Adjust the SIF Sweep output to 700mVp-p (75Ω open).
4. Connect the sweep to TP706 and Connect the Monitor Scope to TP710.
5. Turn R755 fully maximum.
6. Adjust T752 so that the attenuation of 6.0MHz trap becomes minimum.
7. Adjust T751 for maximum peak-to-peak amplitude of response "S" curve as shown below.

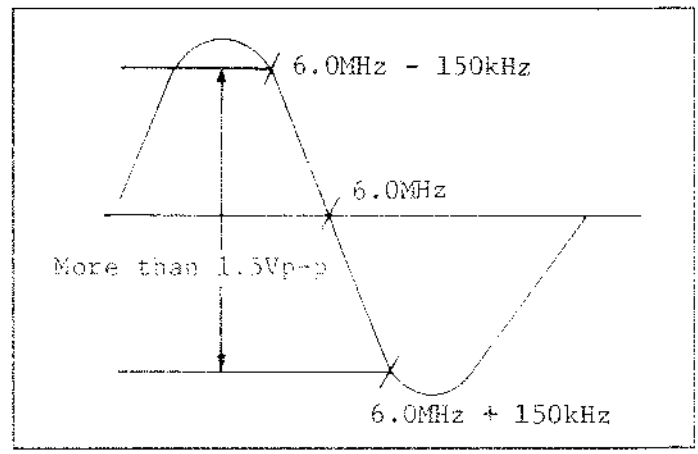


Fig. 66 SIF Waveform

8. Confirm that the level between the 150kHz marker position is more htan 1.5 Vp-p.

2-2-44. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
TUNER TP TP702	T704		CW OSC
TAPE	**M. EQ.**	**SPEC.**	
	CW OSCILLA-TOR D.V.M.	A ± 0.3V	

1. Set the BAND SW to the VHF high position (VH) and turn the tuning volume so that the voltage at BT terminal of the tuning becomes 15V.
2. Set the CW oscillator so that the 39.5MHz CW signal becomes 1Vp-p.
3. Supply this signal to the Tuner Test Point.
4. Connect the Digital Voltmeter to the Tuner AFC terminal TP702.
5. Confirm the reading of the D.V.M., "A" is between 6.5V and 6.8V, when the AFC switch is off.
6. Set the AFC switch is "ON".
7. Adjust T704 so that the level at the Tuner AFC terminal TP702 becomes "A ±0.3V".
8. Change the frequency of the CW oscillator ±100KHz, centered at 39.5 MHz and confirm that the difference of the AFC voltage is more than ±3V.

2-2-45. BURST LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP711	R728		RF COLOUR BAR SIGNAL
TAPE	M. EQ.	SPEC.	
	OSCILLO-SCOPE	240mVp-p	

1. Set the BAND SW to High Position.
2. Tune in the VHF RF Colour Bar signal.
3. Adjust R728 so that the burst level becomes 240mV ± 10mVp-p.

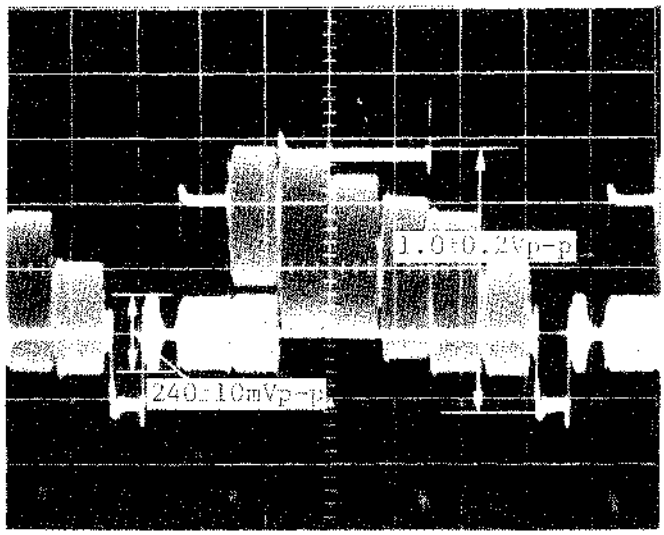


Fig. 67

DECODER SECTION

Model No.: NV-850EG

2-2-46. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. Digital Volt Meter (D.V.M)
2. Oscilloscope
3. Multi Voice Mdlulator (M.V.M)
4. Frequency counter (F. Counter)
5. Noise Meter
6. B.P.F (1KHz)

2-2-47. PLL OSCILLATION FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7003 TP7004	R7026 R7028		
TAPE	M. EQ.	SPEC.	
	FREQUENCY COUNTER	234.0±2.0Hz 547.2±2.0Hz	

1. Don't supply any RF signal to RF input.
2. Set the AFC switch to "OFF".
3. Connect the jumper wire between TP706 and the GND.
4. Connect the Frequency counter to TP7003 and adjust R7026 for 234.0 ±2.0Hz.
5. Connect the Frequency Counter to TP7004 and adjust R7028 for 547.2 ±2.0Hz.

2-2-48. FM DETECTION TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7013 TP7011	T7002 T7003		M.V.M.
TAPE	M. EQ.	SPEC.	
	M.V.M. OSCILLO-SCOPE		

1. Supply a video signal to the input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Modulator to RF Input.
3. Set the channel to CH10.
4. Set the AFC switch to "ON" and set the Mode selection switch to "CH1+2" position.
5. Connect the oscilloscope to TP7013.
6. Adjust T7002 so that the output level indication on the oscilloscope becomes maximum, more than 400mVp-p.
7. Connect the oscilloscope to TP7011.
8. Adjust T7003 so that the output level indication on the oscilloscope becomes maximum, more than 400mVp-p.

2-2-49. STEREO SEPARATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7008	R7001		M.V.M.
TAPE	M. EQ.	SPEC.	
	M.V.M NOISE METER		

1. Supply a video signal to the input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Modulator to RF Input.
3. Set the channel to CH10 and Set the AFC switch to "ON".

4. Tune the Output Frequency of the Multi Voice Modulator for CH10 of the deck and place the mode selection switch to "CH1 +2" position.
5. Connect the Noise Meter to TP7008 through the B.P.F(1KHz).
6. Adjust R7001 so that the indication of the Noise Meter becomes minimum.

2-2-50. PILOT SIGNAL TRANSFORMER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7005	T7001		M.V.M.
TAPE	M. EQ.	SPEC.	
	M.V.M OSCILLO-SCOPE		

1. Supply a video signal to the input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Molulator to RF Input.
3. Set the Channel to CH10 and set the AFC switch to "ON".
4. Tune the output frequency of the multi Voice Modulator for CH10 of the deck and place the mode selection switch to "CH1+2" position.
5. Connect the oscilloscope to TP7005.
6. Adjust T7001 so that the level of the waveform becomes maximum and also DC level of the waveform becomes maximum.

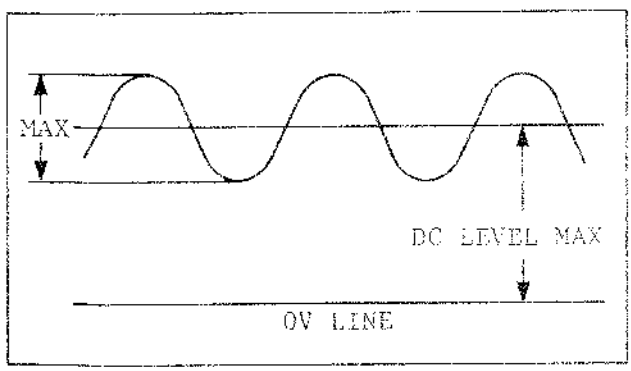


Fig. 68

2-2-51. AUDIO OUTPUT LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7008 TP7009	R7044 R7040		M.V.M.
TAPE	M. EQ.	SPEC.	
	M.V.M. NOISE METER	100±5mVrms	

1. Supply a video signal to the Input of the Multi Voice Modulator.
2. Connect the output of the Multi Voice Modulator to RF Input.
3. Set the Channel to CH10 and set the AFC Switch to "ON".
4. Tune the output frequency of the Multi Voice Modulator for CH10 of the deck and place the mode selection switch to CH1+2.
5. Connect the Noise Meter to TP7008.
6. Adjust R7044 so that indication of the Noise Meter becomes 100±5mVrms.
7. Connect the noise Meter to TP7009.
8. Adjust R7040 so that indication of the Noise Meter becomes 100±5mVrms.

2-2-52. MAIN AUDIO OUTPUT LEVEL

TP	ADJ.	MODE	INPUT
TP7002	R7076		M.V.M.
TAPE	M. EQ.	SPEC.	
	M.V.M. NOISE METER	85±5mVrms	

1. Supply a video signal to the input of Mult Voice Modulator
2. Set the Mult Voice Modulation mode of Multi Voice Modulator to DUAL M1.
3. Connect the output of the Multi Voice Molulator to RF Input.
4. Set the AFC Switch to "ON".
5. Connect the Noise Meter to TP7002.
6. Adjust R7076 so that the indication of the Noise Meter becomes within 85 ± 5mVrms.

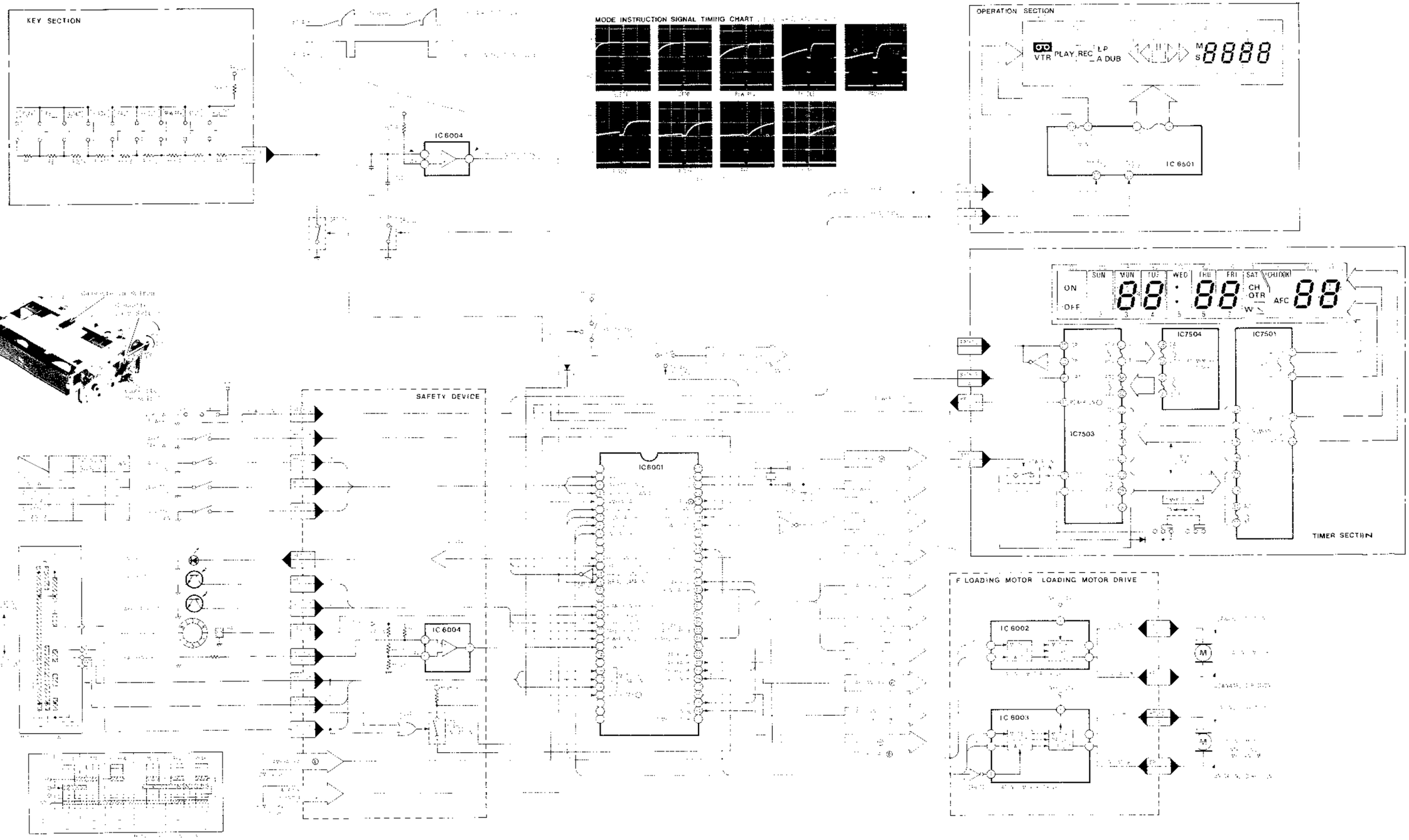
2-2-53. BUZZ ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7009	T707		M.V.M.
TAPE	M. EQ.	SPEC.	
	M.V.M. NOISE METER	LESS THAN 300μVrms	

1. Supply a Video Signal to the input of the Multi Voice Modulator.
2. Set the Multi Voice Modulation Mode of Multi Voice Modulator to SINGLE M2, and turn Voice modulation to "OFF" and set the AFC Switch to "ON".
3. Connect the Noise Meter to TP7009.
4. Adjust T707 so that the indication of the Noise Meter becomes minimum.

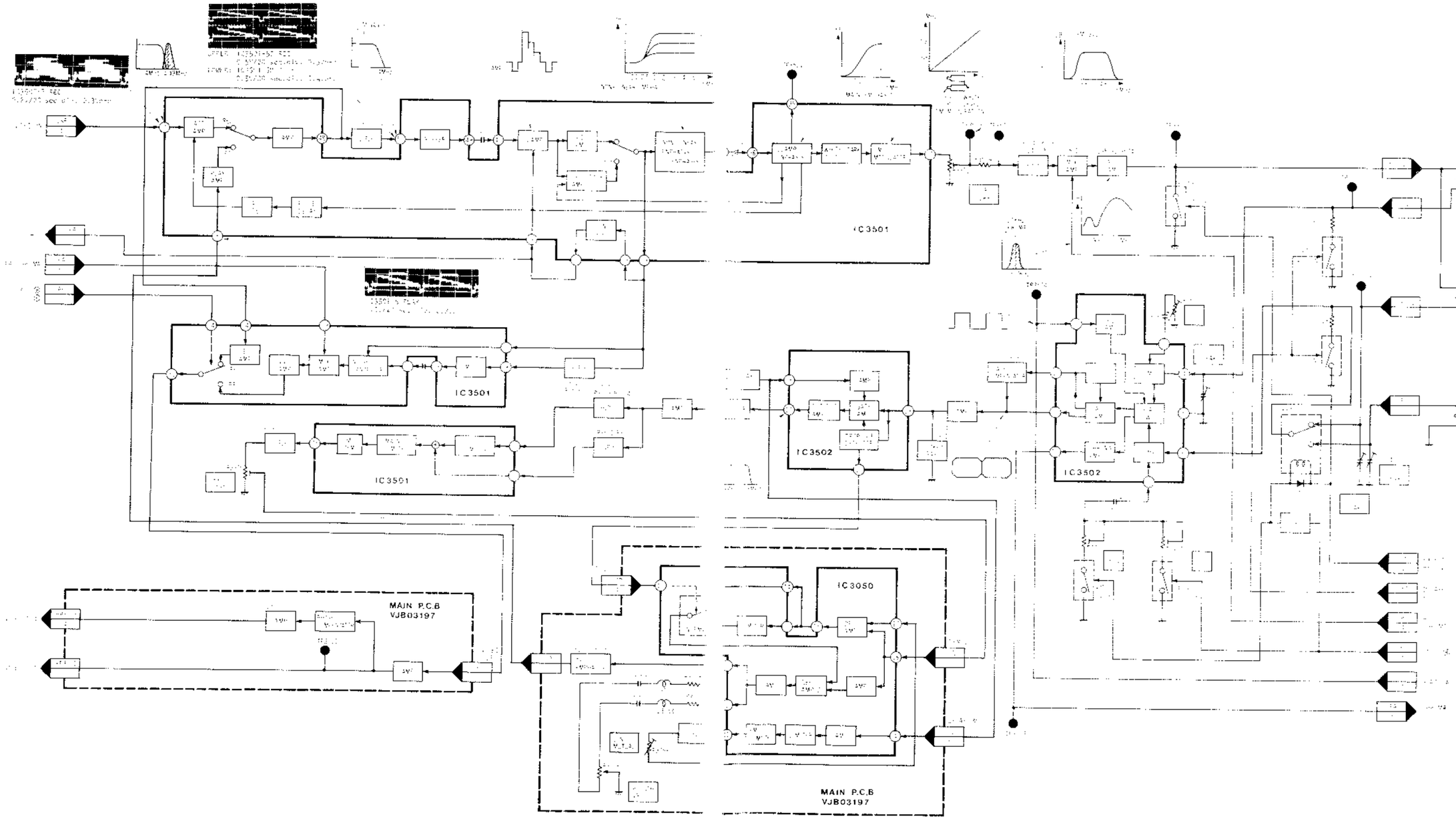
SECTION-3
BLOCK AND SCHEMATIC DIAGRAM

3-1. SYSTEM CONTROL BLOCK DIAGRAM



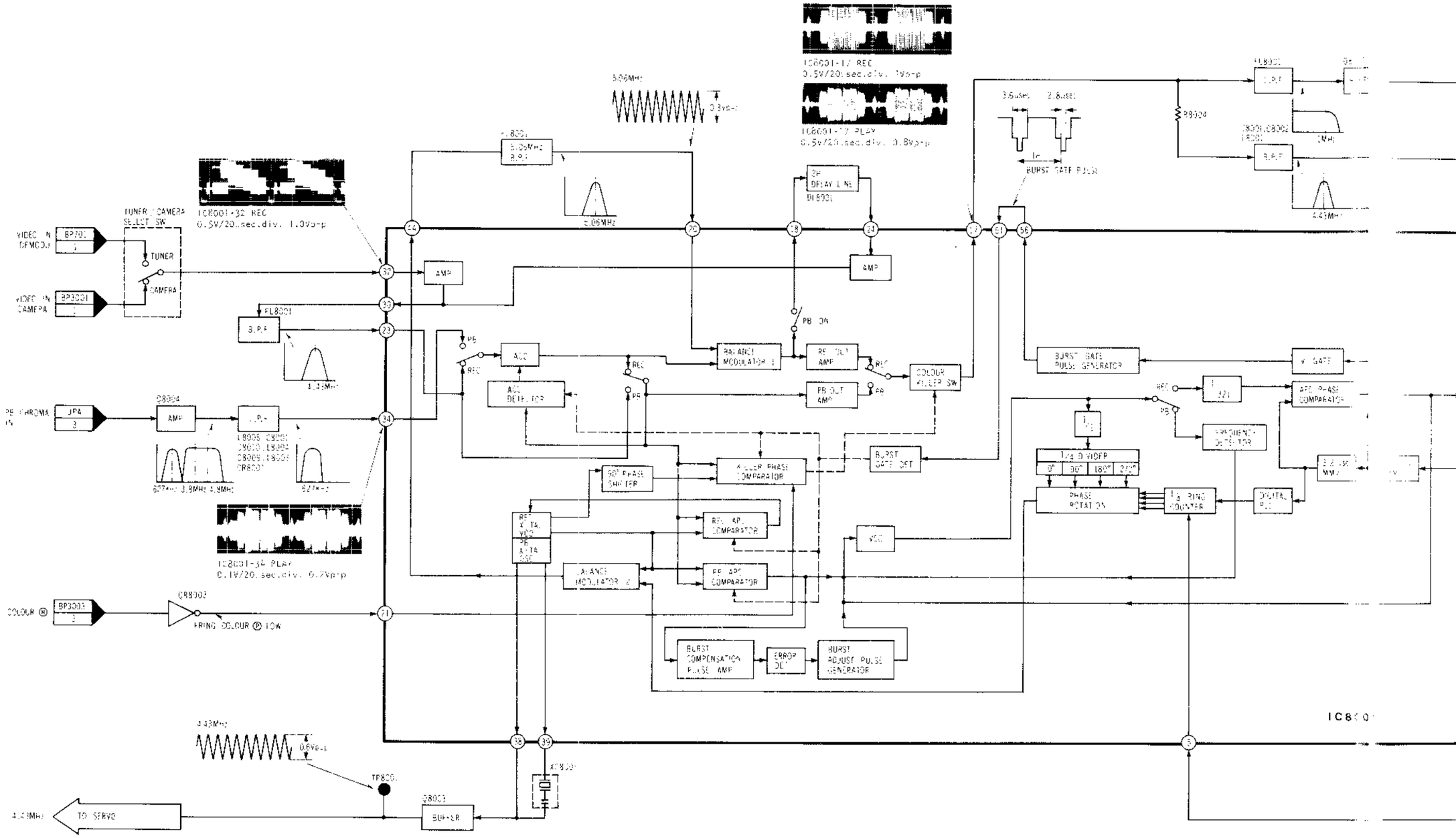
3—1

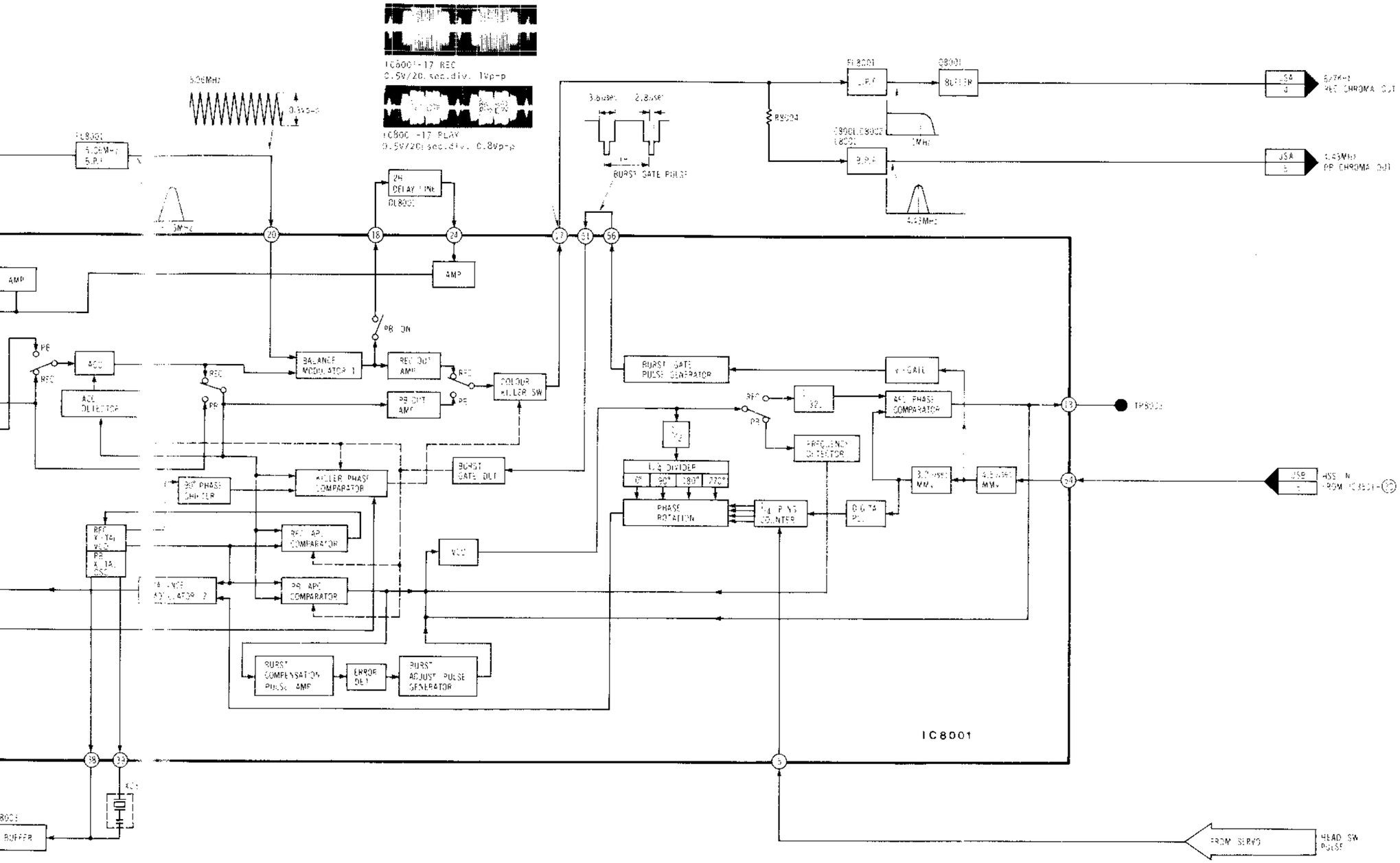
3-2. LUMINANCE PROCESS BLOCK DIAGRAM



Back Page:
SYSTEM CONTROL Section

3-3. CHROMINANCE PROCESS BLOCK DIAGRAM





MAIN SIGNAL PATH IN REC MODE

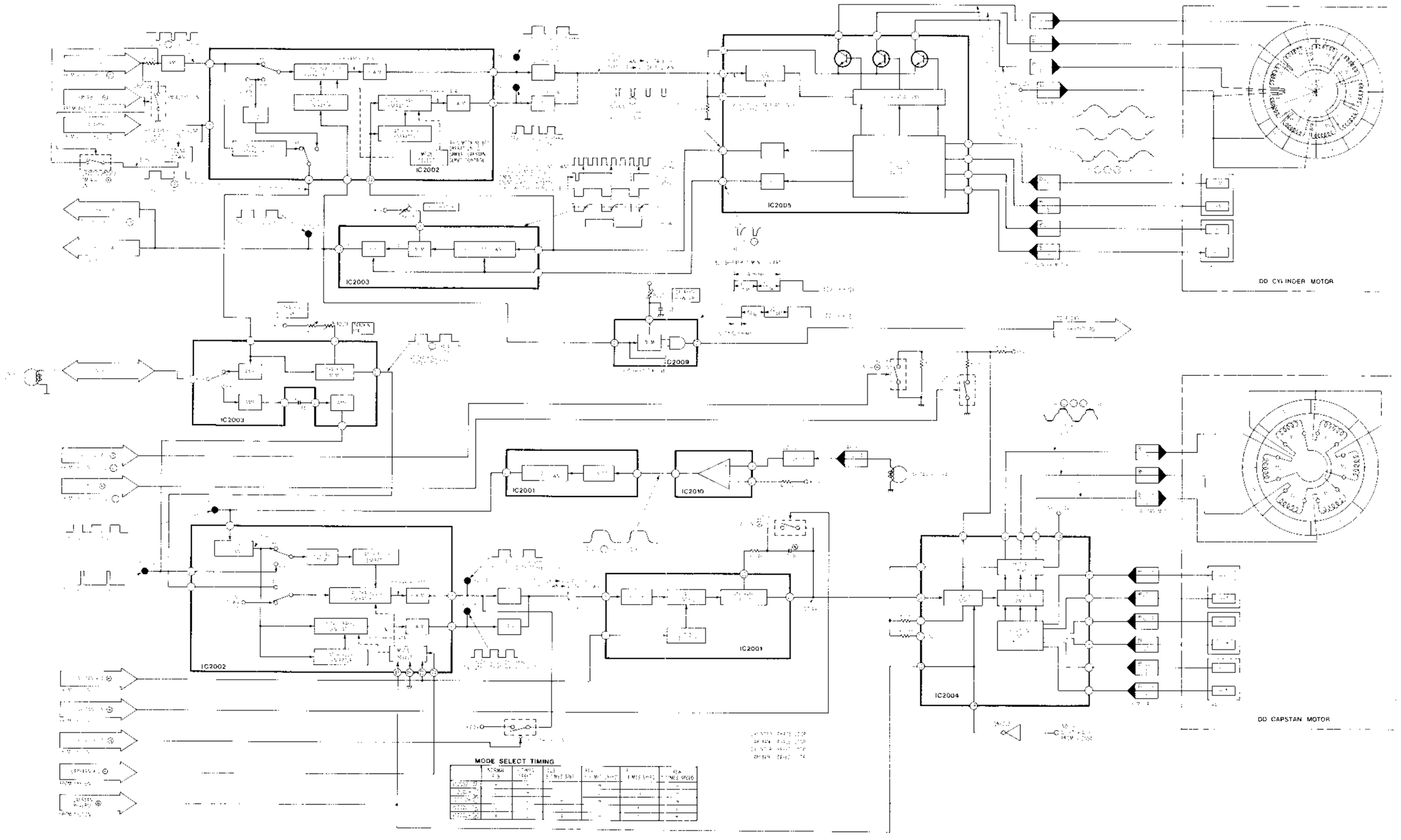
5.06M-Hz PHASE ROTATIONAL SIGNAL PATH IN REC MODE

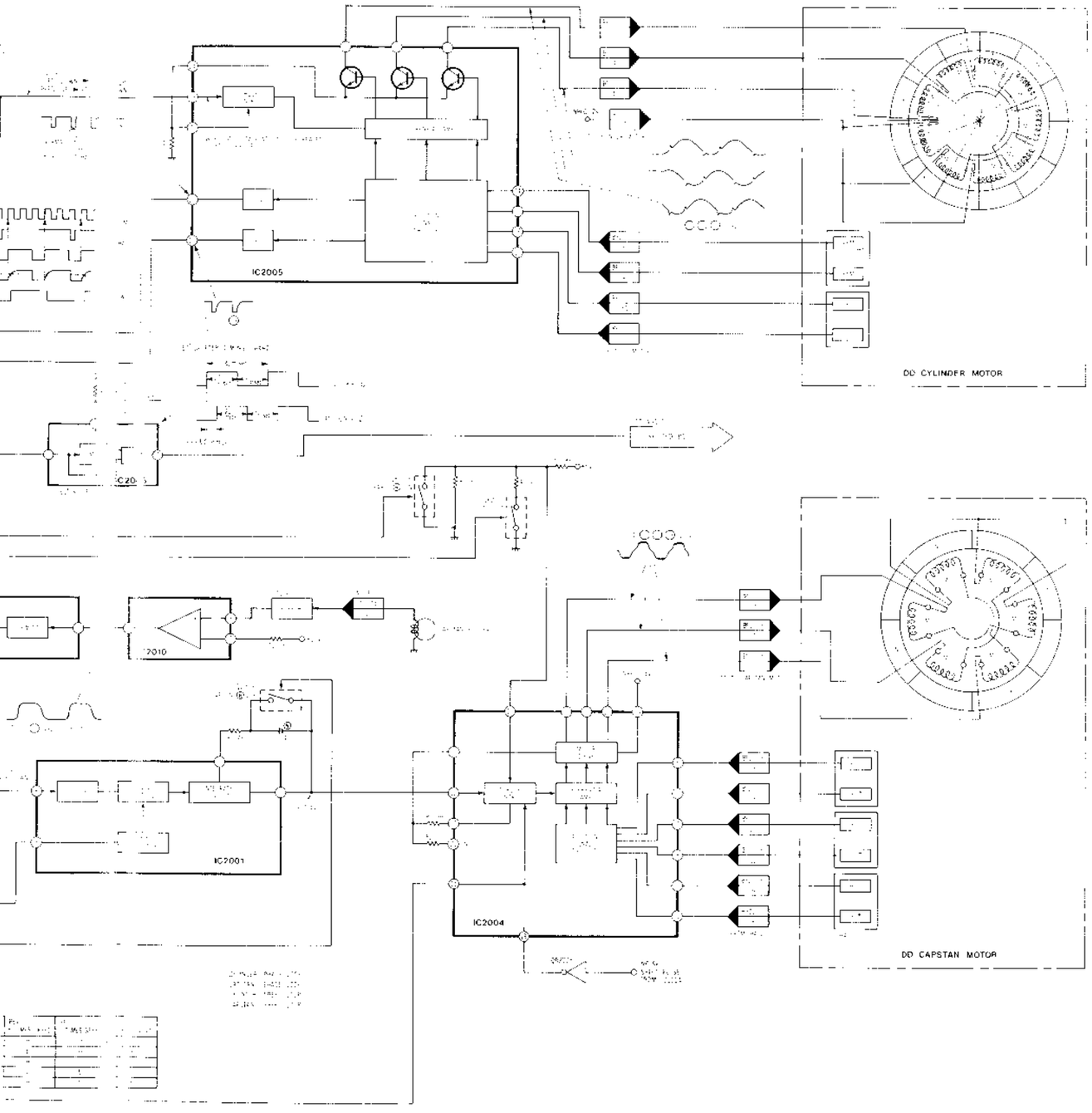
MAIN SIGNAL PATH IN PLAYBACK MODE

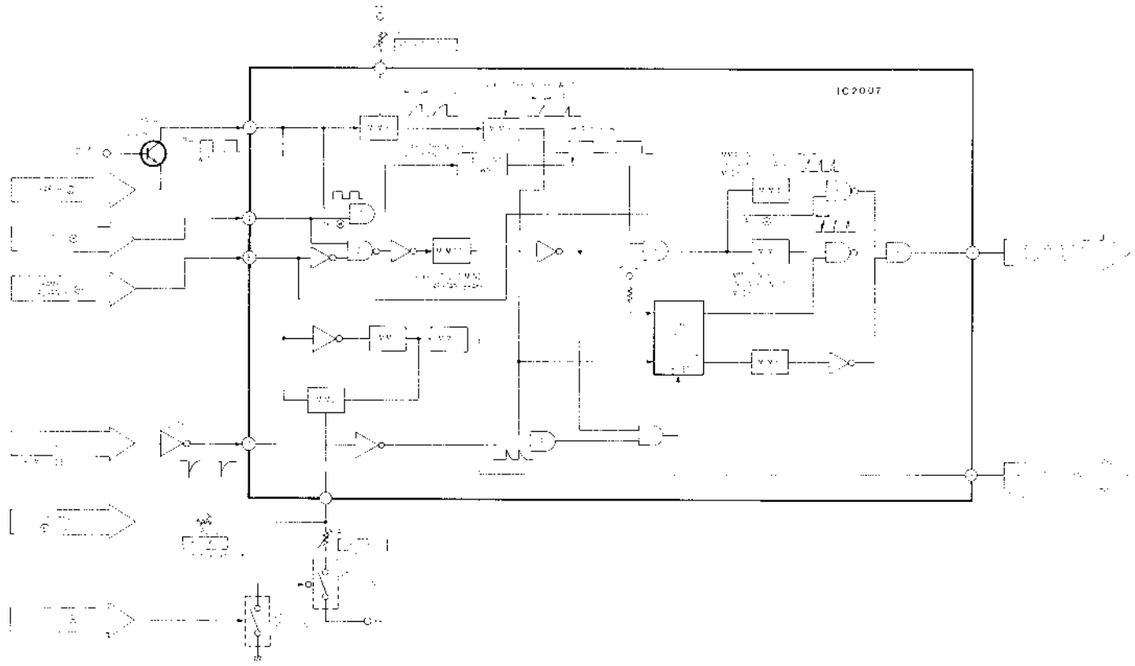
5.06MHz PHASE ROTATIONAL SIGNAL PATH IN PLAYBACK MODE

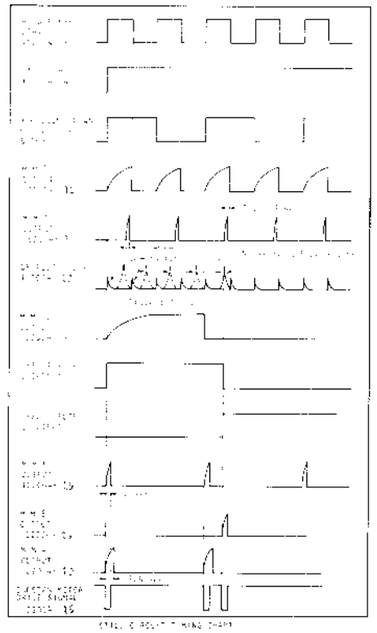
Next Page:
SERVO Section

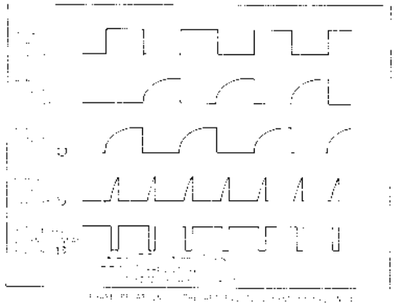
3-4. SERVO BLOCK DIAGRAM



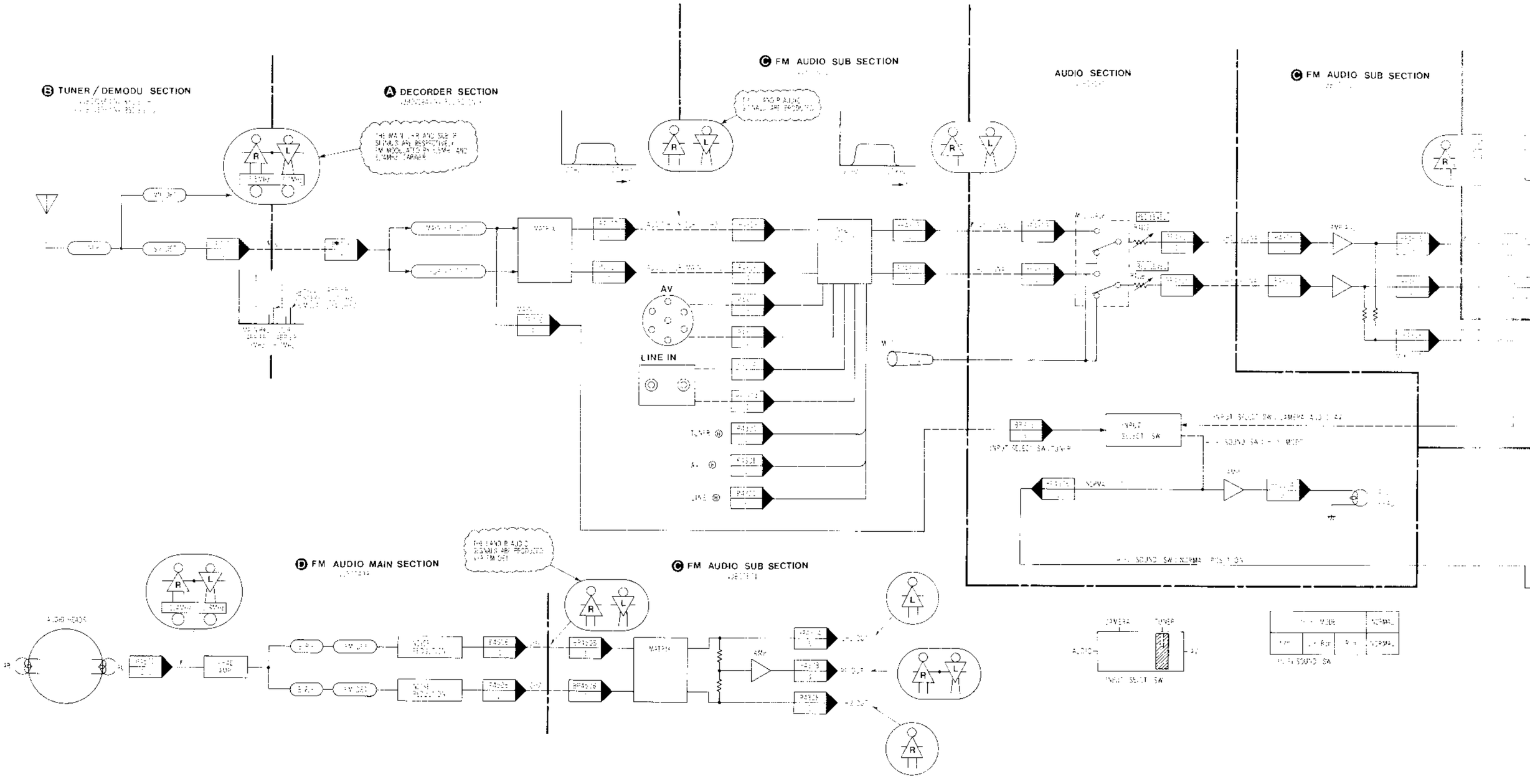

IC2005
DD CYLINDER MOTOR
IC2001
IC2004
DD CAPSTAN MOTOR

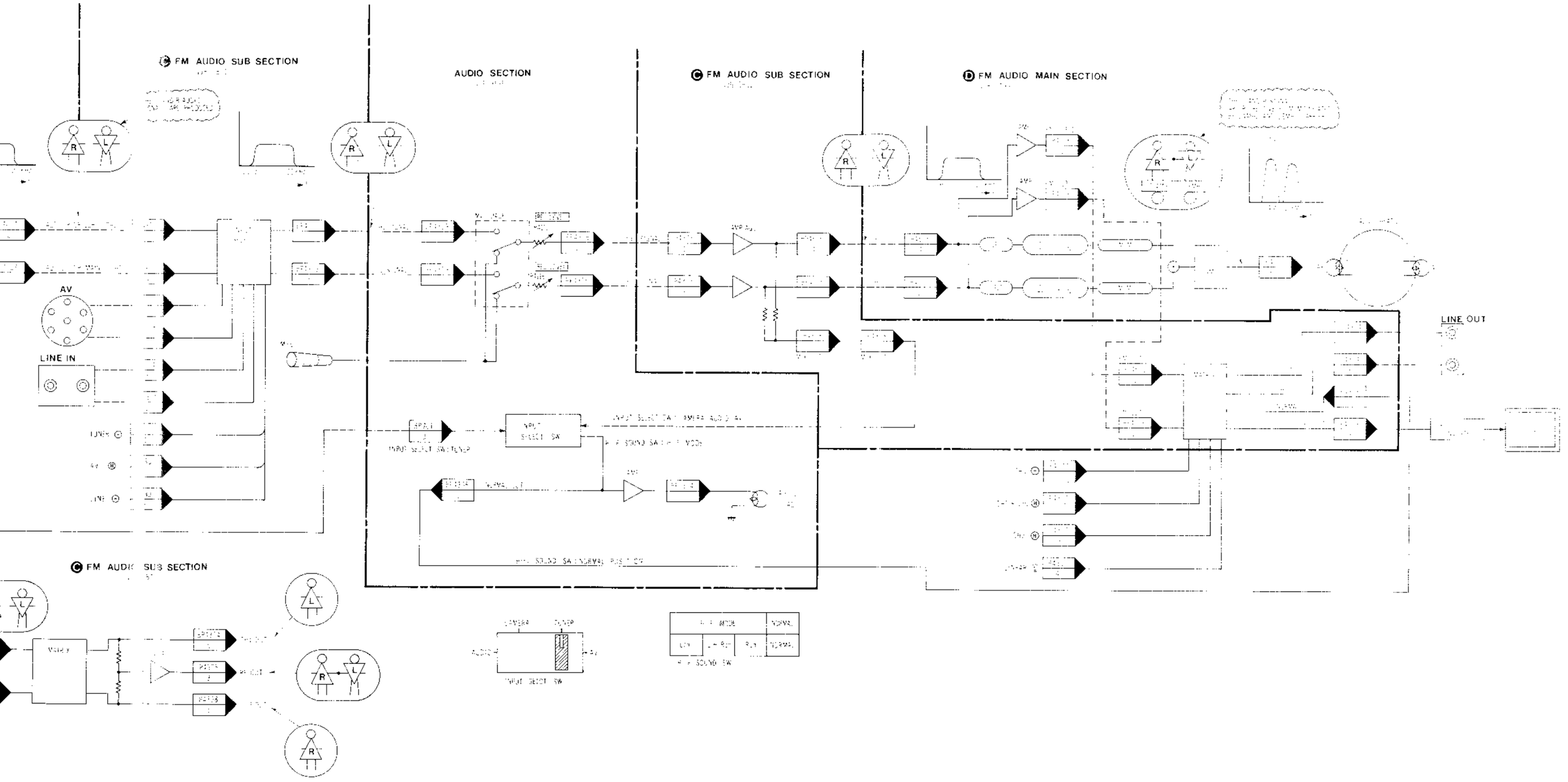

IC2007





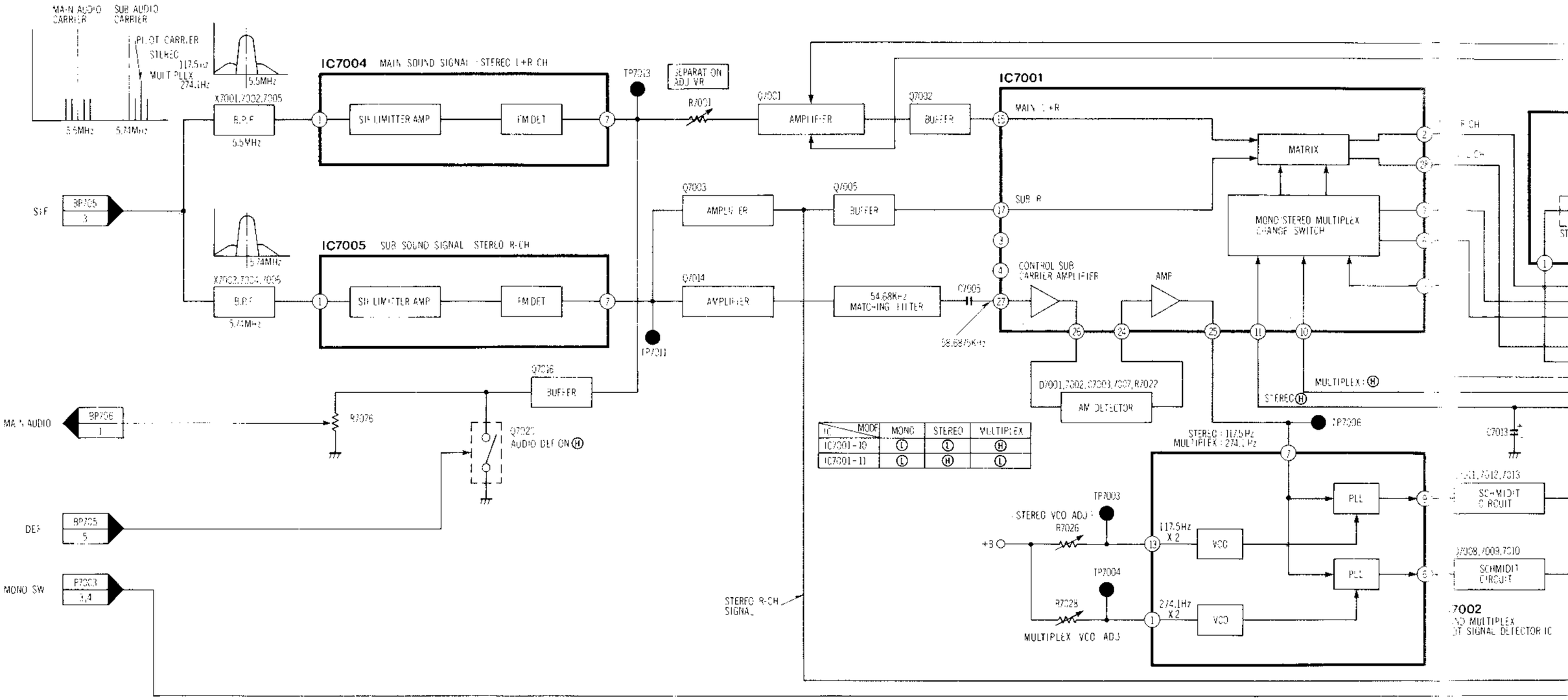
3-5. AUDIO OVERALL BLOCK DIAGRAM



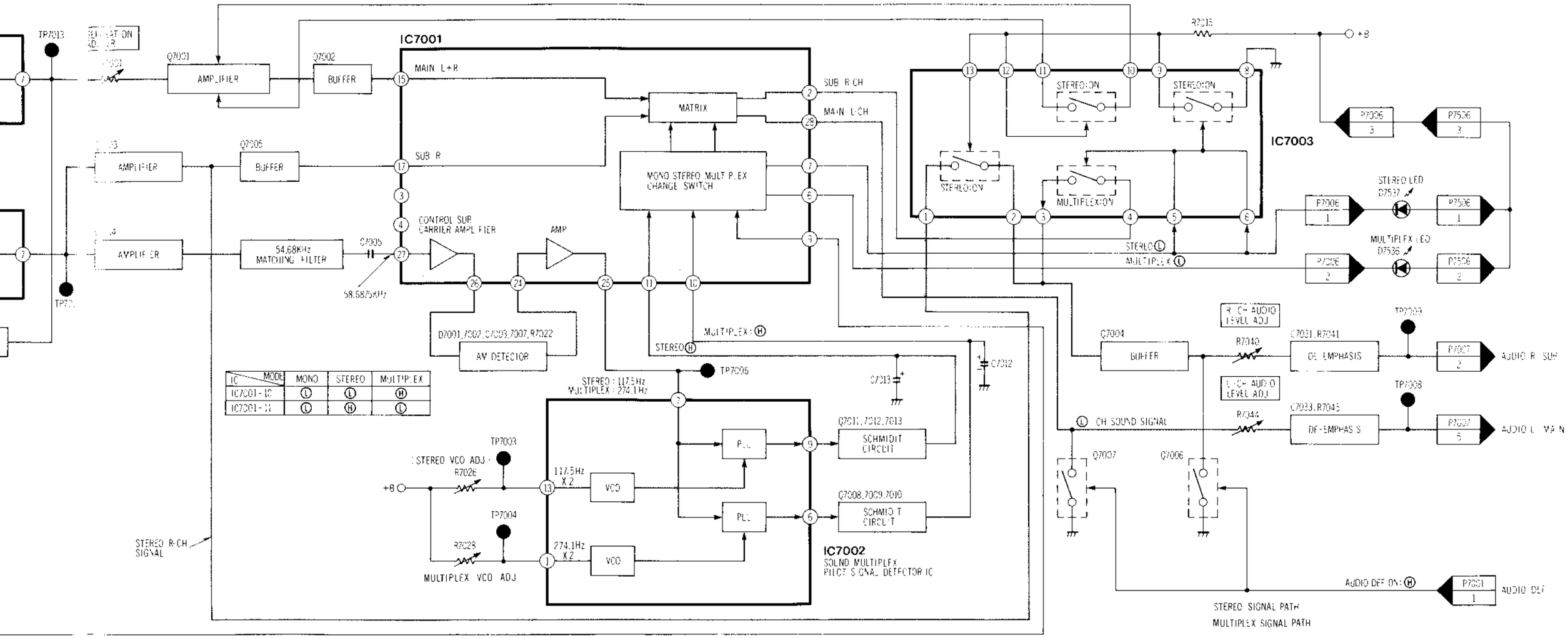


Next Page:
DECODER Section

Ⓐ DECODER BLOCK DIAGRAM (NV-850EG)

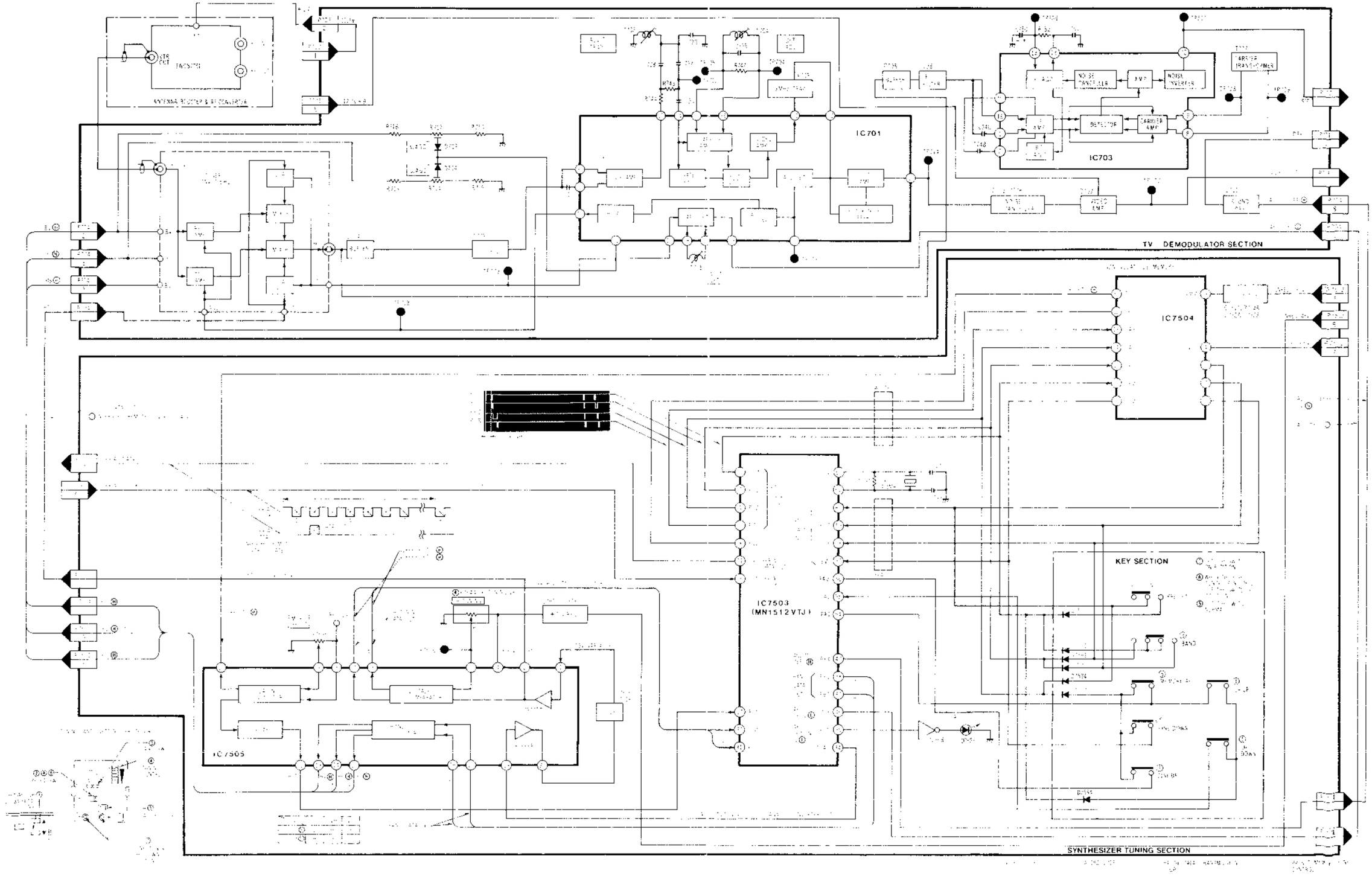


IC / MODE	MONO	STEREO	MULTIPLEX
IC7001-10	Ⓛ	Ⓛ	Ⓗ
IC7001-11	Ⓛ	Ⓗ	Ⓛ

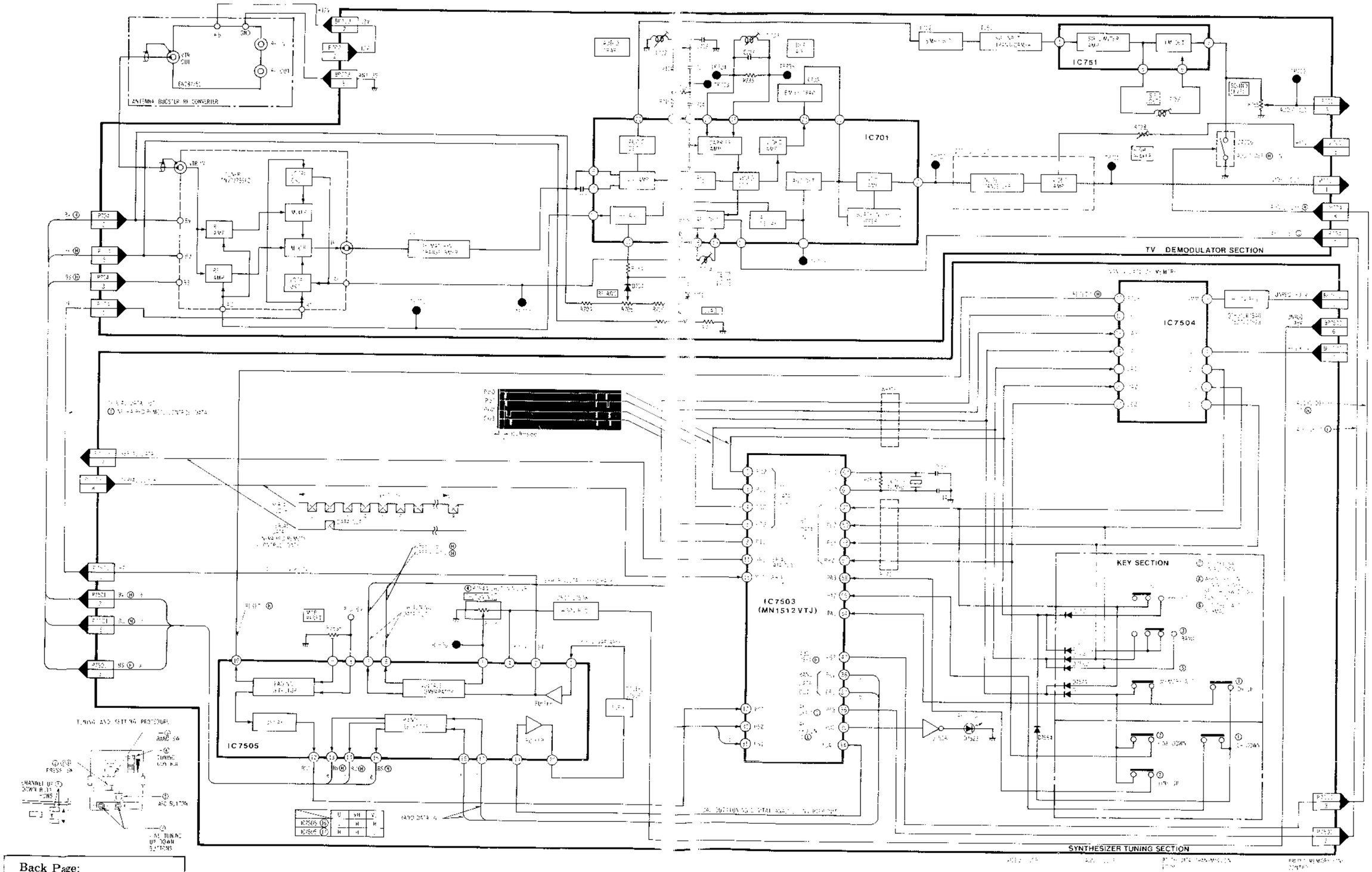


IC \ MODE	MONO	STEREO	MULTIPLEX
IC7001-IC	L	L	H
IC7001-12	L	H	L

Ⓑ TUNER/DEMODU BLOCK DIAGRAM (NV-850EG)



Ⓑ TUNER/DEMODU BLOCK DIAGRAM (NV-850E)



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TUNER/DEMODU Section

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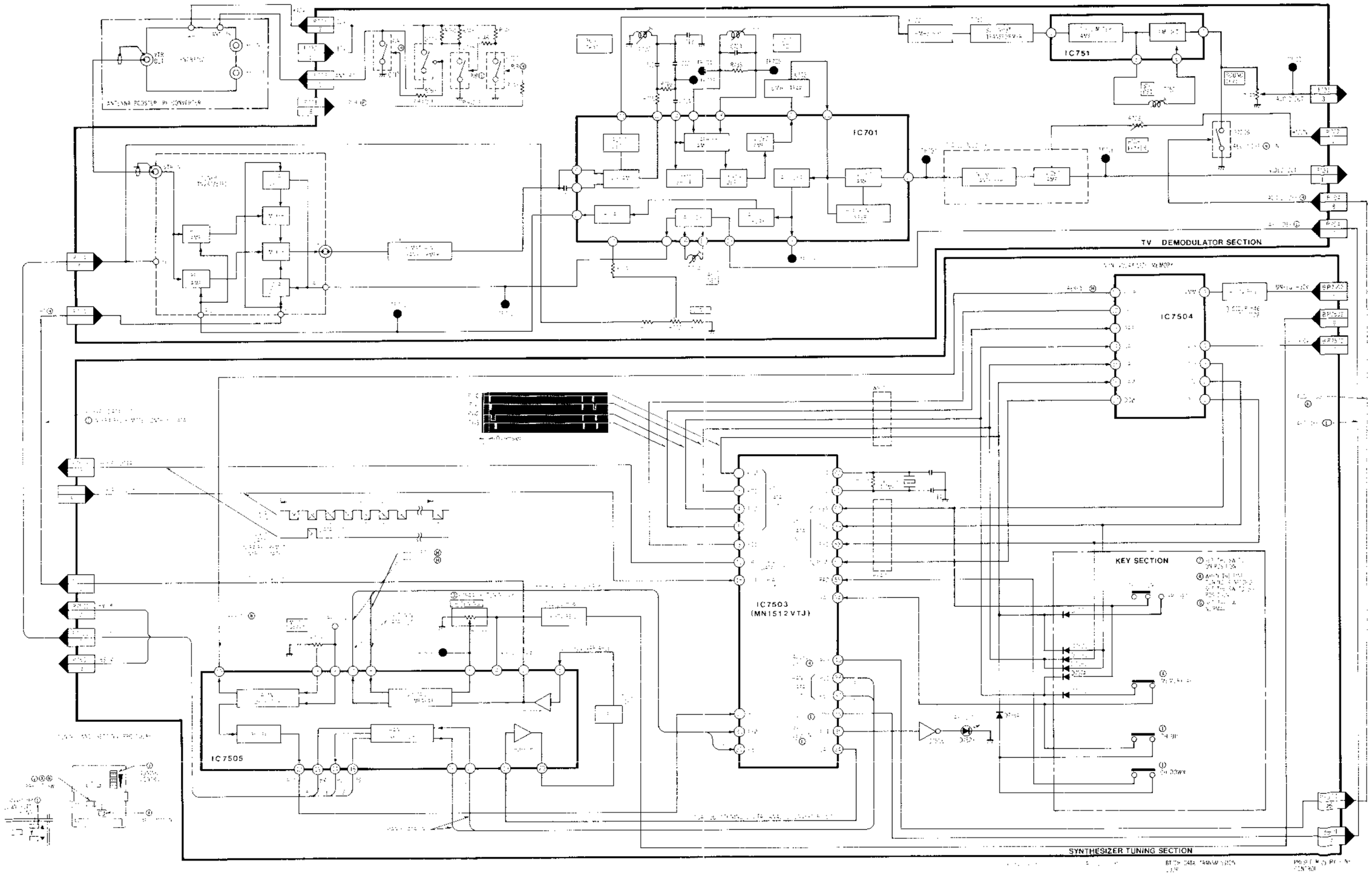
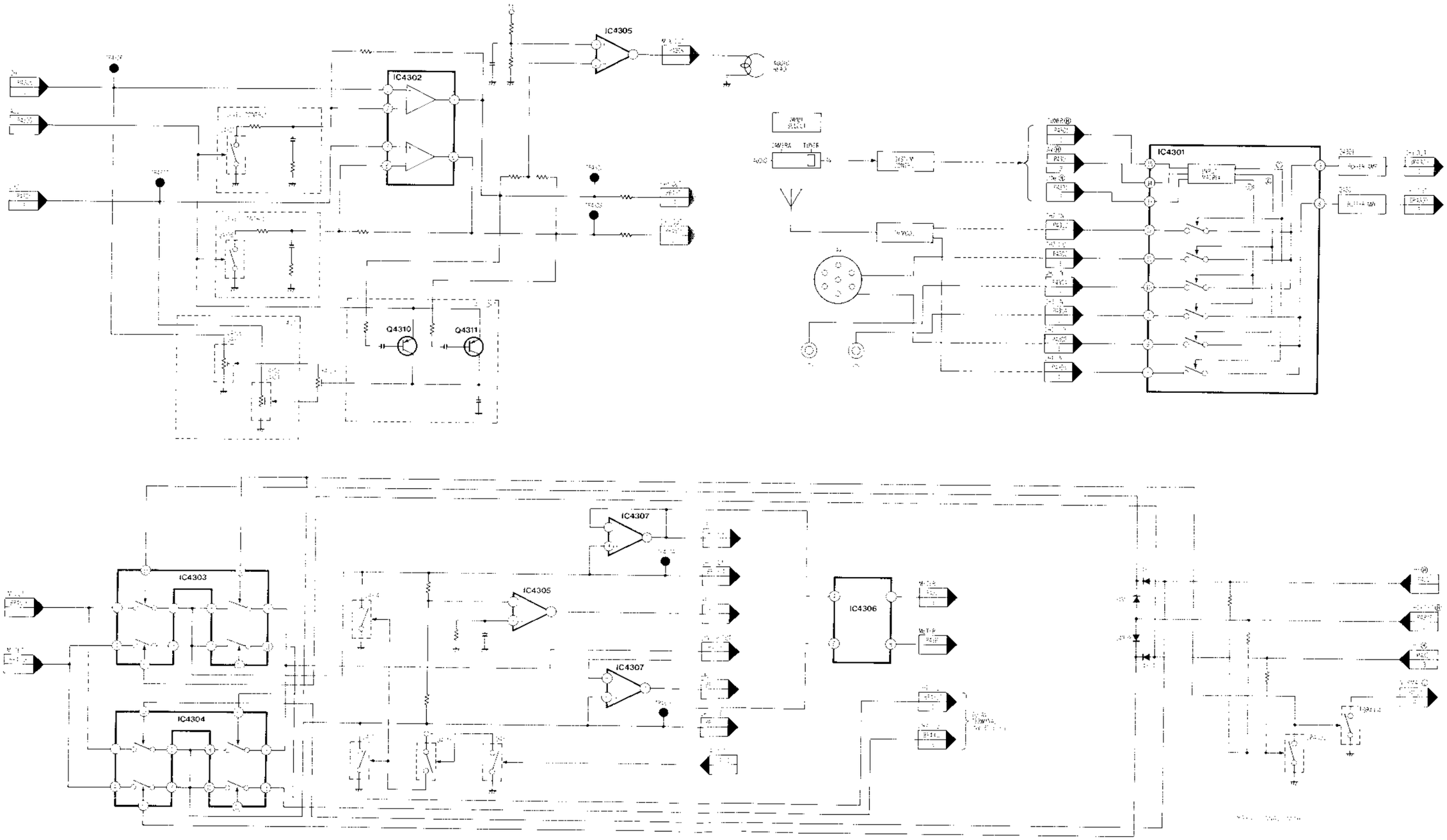
Ⓑ TUNER/DEMODU BLOCK DIAGRAM (NV-850B)



3—9

© FM AUDIO SUB BLOCK DIAGRAM



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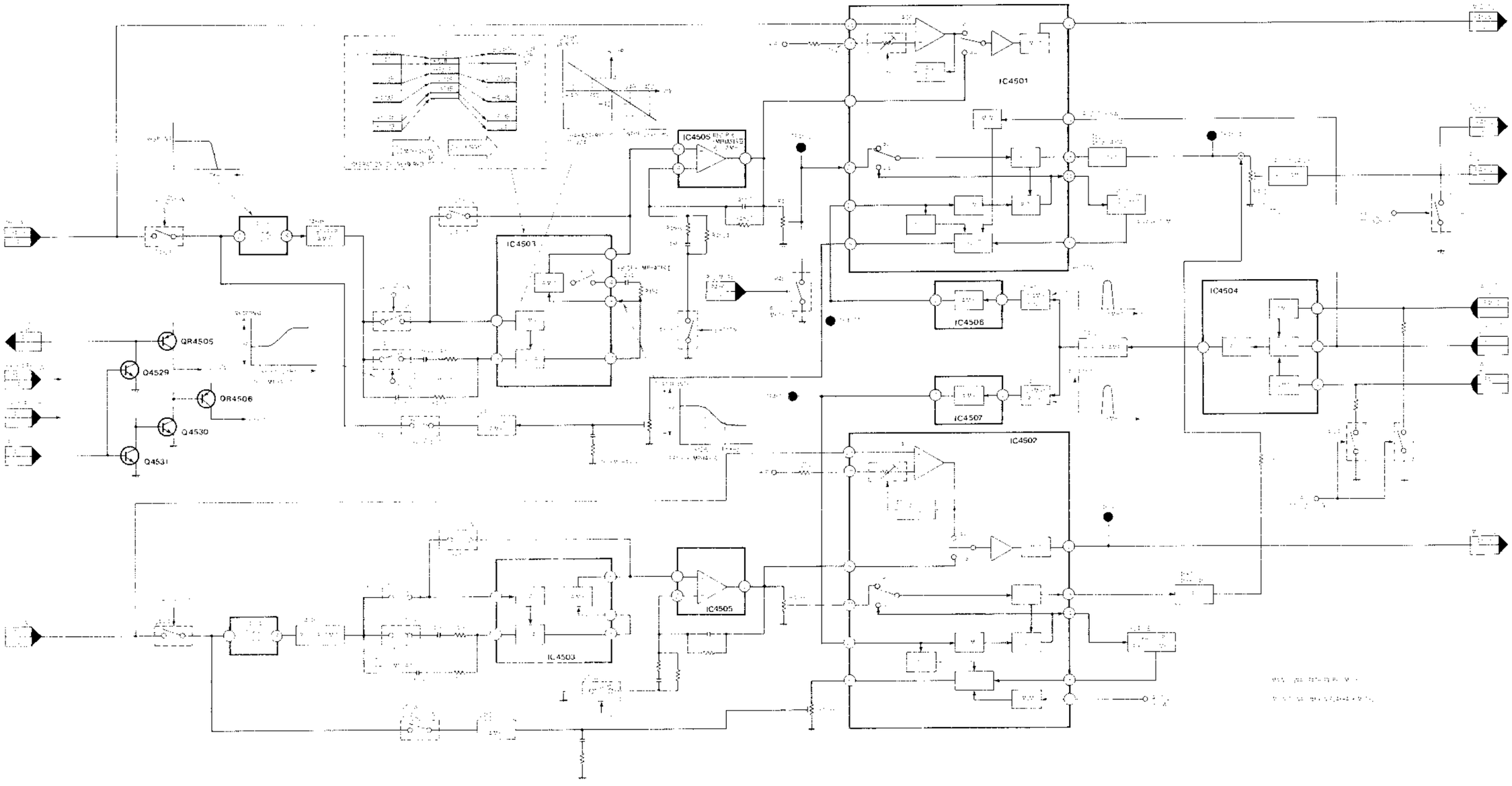
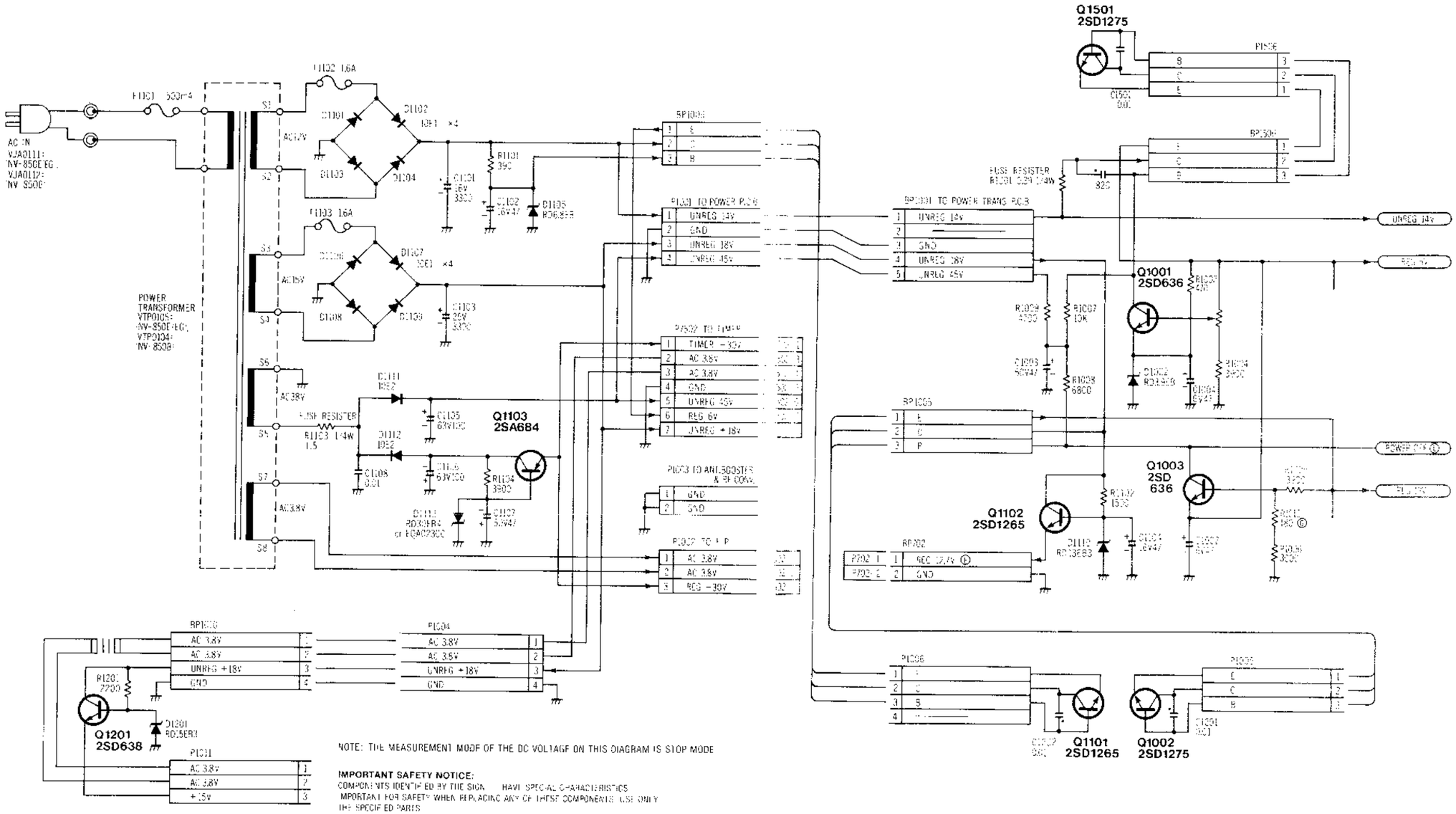
TUNER/DEMODU Section

Ⓓ FM AUDIO MAIN BLOCK DIAGRAM



3—11

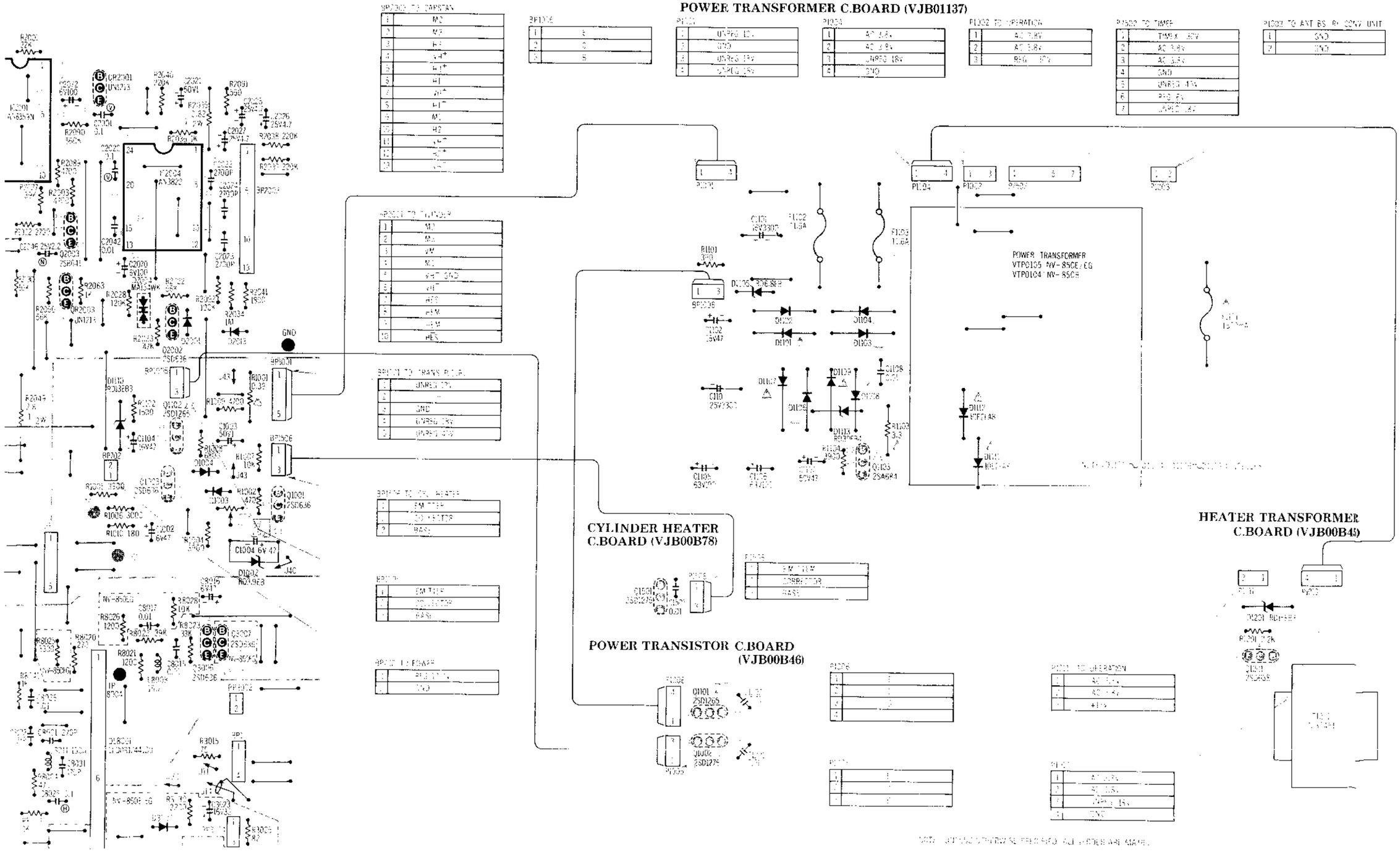
3-6. POWER SUPPLY SCHEMATIC DIAGRAM



TRANSISTORs INFORMATION

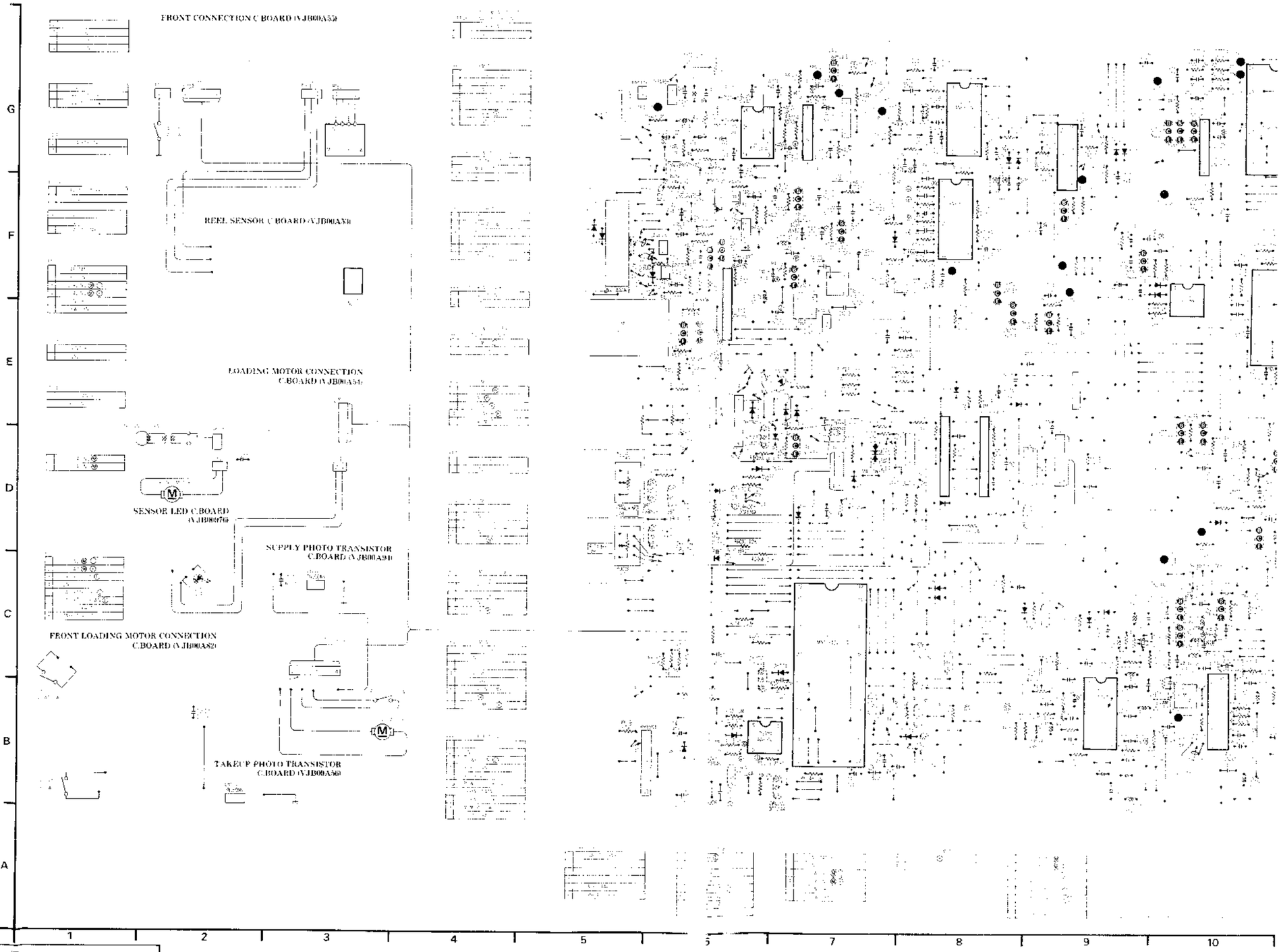
Back Page:
FM AUDIO MAIN Section

3-7. POWER SUPPLY Section In Main Circuit Board (VEP03197A: NV-850EG/VEP03197B: NV-850B/VEP03197C/ NV-850E)



3—13

3-8. SYSTEM CONTROL Section In Main Circuit Board (VEP03197A: NV-850EG/VEP03197B: NV-850B/VEP03197C: NV-850E)



SYSTEM CONTROL CIRCUIT BOARD	
Transistor	
Q1502	C-3
Q6001	D-9
Q6002	C-6
Q6003	D-6
Q6005	D-6
Q6006	D-6
Q6007	D-6
Q6008	C-8
Q6009	D-6
Q6012	B-6
Q6552	B-2
Transistor & Resistor	
QR6001	B-7
QR6002	B-7
QR6003	B-6
QR6004	B-8
QR6005	D-6
QR6006	D-6
QR6008	D-6
QR6012	D-7
QR6013	B-9
Integrated Circuit	
IC6001	C-7
IC6002	D-8
IC6003	D-8
IC6004	B-6
Test Point	
TP6001	B-8
TP6002	B-6

ADDRESS INFORMATION

Back Page:
POWER SUPPLY Section

SYSTEM CONTROL ICs D.C. VOLTAGE CHART

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	4.9	4.9	0	4.1	0	0	0	0	3.7	5.0	4.9	4.7	0.5	4.8	4.9	2.7	0	0.2	3.0
PLAY	0	4.9	4.9	0	4.1	0	0	0	0	3.7	5.0	4.7	4.7	0.5	4.7	4.9	2.7	2.5	2.5	3.0
REC	0	4.9	4.9	0	4.1	0	0	0	0	3.7	5.0	4.9	4.7	0.5	4.8	4.9	2.7	2.5	2.5	3.0
F.F	0	4.9	4.9	0	4.1	0	0	0	0	3.7	5.0	4.9	4.7	0.5	4.9	4.9	2.7	0	2.2	3.0
REW	0	4.9	4.9	0	4.1	0	0	0	0	3.7	5.0	4.9	4.7	0.5	4.8	4.9	2.7	0	2.2	3.0

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	39	31	32	33	34	35	36	37	38	39	40
STOP	3.0	0.1	0	0	5.1	4.2	4.8	0	0.5	4.9	4.9	0	0	0.1	0.2	0.1	0.1	0.2	0.1	0.1
PLAY	3.0	0.1	0	0	5.1	0	0	5.0	0.5	4.9	4.9	0	0	4.9	0.2	0.1	0.1	4.9	0.1	0.1
REC	3.0	0.1	0	0	5.1	0	0	5.0	0.5	4.9	4.9	0	0	4.9	0.2	0.1	0.1	4.9	0.1	0.1
F.F	3.0	0.1	0	0	5.1	4.8	4.8	0	0.5	4.9	4.9	0	0	0.2	0.2	4.8	0.1	4.8	0	4.8
REW	3.0	0.1	0	0	5.1	4.7	4.8	0	0.5	4.9	4.9	0	0	0.2	0.2	4.8	0.1	4.8	4.8	4.8

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0.1	0.1	12.3	12.3	4.7	0	4.9	0.1	0.1	4.9	0.1	0.1	0.2	4.8	4.9	4.9	0.1	4.3	4.5	0.2
PLAY	0.1	0.1	12.3	12.3	4.7	4.9	4.9	0.1	0.1	4.9	0.1	0.1	0.2	4.8	4.9	0.1	0.1	4.3	4.5	0.2
REC	0.1	0.2	0.3	0.3	4.7	4.9	4.9	0.1	0.1	4.9	0.1	0.1	0.2	4.8	4.9	0.1	0.1	4.3	4.5	0.2
F.F	0	12.3	12.3	12.2	4.7	4.9	4.9	0	0	4.9	0.1	0	0.7	4.8	4.9	4.9	0.1	4.3	4.4	0.1
REW	0	12.3	12.2	12.2	4.7	4.9	4.9	0	0	4.9	0.1	0	0.7	4.8	4.9	4.9	0.1	4.3	4.4	0.1

REF. NO.	IC6001			
MODE	61	62	63	64
STOP	0.1	2.1	2.3	4.9
PLAY	0.1	2.1	2.3	4.9
REC	0.1	2.1	2.3	4.9
F.F	0	2.1	2.2	4.9
REW	0	2.1	2.2	4.9

REF. NO.	IC6002									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0.5	0.9	10.3	0	0	12.4	12.2	0.9	0.5
PLAY	0	0.5	0.9	10.3	0	0	12.4	11.9	0.9	0.5
REC	0	0.5	0.9	10.3	0	0	12.4	11.9	0.9	0.5
F.F	0	0.5	0.9	10.3	0	0	12.4	11.9	0.5	0.5
REW	0	0.5	0.9	10.3	0	0	12.4	11.9	0.9	0.5

REF. NO.	IC6003									
MODE	1	2	3	4	5	6	7	8	9	10
STOP	0	0.5	0.9	5.7	0	0.5	12.4	11.8	0.9	0.5
PLAY	0	0.5	0.9	5.7	0	0.5	12.4	11.8	0.9	0.5
REC	0	0.5	0.9	5.7	0	0.4	12.4	11.8	0.9	0.5
F.F	0	0.5	0.9	5.7	0	0.5	12.4	11.8	0.9	0.5
REW	0	0.5	0.9	5.7	0	0.5	12.4	11.8	0.9	0.5

REF. NO.	IC6004							
MODE	1	2	3	4	5	6	7	8
STOP	4.9	0	2.4	0	0	0.4	0	5.1
PLAY	4.9	0	2.4	0	0	0.4	0	5.1
REC	4.9	0	2.4	0	0	0.4	0	5.1
F.F	4.9	0	2.4	0	0	0.4	0	5.1
REW	4.9	0	2.4	0	0	0.4	0	5.1

SYSTEM CONTROL TRANSISTORs DC VOLTAGE CHART

REF. NO.	Q6001			Q6002			Q6003			Q6004			Q6005			Q6006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.1	12.2	0.2	0	4.7	0.2	12.4	12.4	11.7	12.5	12.5	11.8	12.4	0	12.4	12.4	0.3	12.4
PLAY	0.2	11.8	0.2	0	4.7	0.2	12.4	12.4	11.7	12.5	12.5	11.8	12.4	0	12.4	12.4	5.0	12.4
REC	0.2	11.8	0.2	0	4.7	0.2	12.4	12.4	11.7	12.5	12.5	11.8	12.3	0	11.5	12.3	12.1	11.4
F.F	0.1	12.0	0.2	0	4.7	0.2	12.4	12.4	11.7	12.5	12.5	11.8	12.4	0	12.4	12.4	0.3	12.4
REW	0.2	11.8	0.2	0	4.7	0.2	12.4	12.4	11.7	12.5	12.5	11.8	12.4	0	12.4	12.4	0.3	12.4

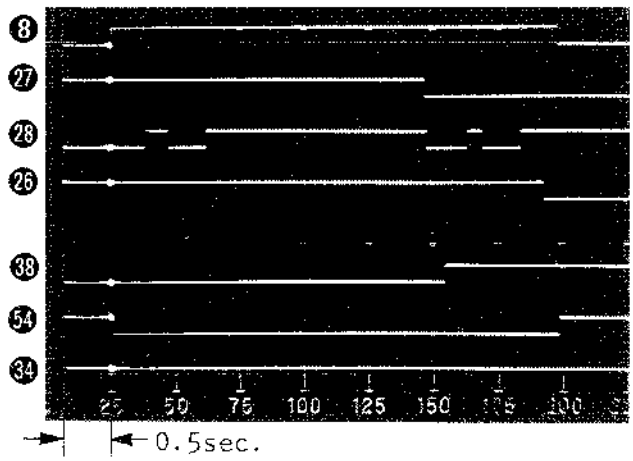
REF. NO.	Q6007			Q6008			Q6009			Q6012		
MODE	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	5.0	4.3	5.1	0	4.9	5.1	0	5.0	0	4.9	0
PLAY	5.1	5.0	4.3	5.1	5.0	1.4	5.1	0	5.0	0	4.9	0
REC	5.1	0	4.8	5.1	0	4.9	5.1	0	5.0	0	4.9	0
F.F	5.1	5.0	4.3	5.1	0	4.9	5.1	0	5.0	0	4.9	0
REW	5.1	5.0	4.3	5.1	0	4.9	5.1	0	5.0	0	4.9	0

REF. NO.	QR6001			QR6002			QR6003			QR6004			QR6005			QR6006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0.1	4.8	0	0	4.5	0	0	4.3	0	13.8	0.1	5.1	0	4.9	5.1	5.0	0.1
PLAY	0	0.1	4.8	0	0	4.5	0	0	4.3	0	13.8	0.1	5.1	0	4.9	5.1	0	4.9
REC	0	0.1	4.8	0	0	4.5	0	0	4.3	0	13.8	0.1	5.1	5.0	0.1	5.1	5.0	0.1
F.F	0	0.1	4.8	0	0	4.5	0	0	4.3	0	13.8	0.1	5.1	0	4.9	5.1	5.0	0.1
REW	0	0.1	4.8	0	0	4.5	0	0	4.3	0	13.8	0.1	5.1	0	4.9	5.1	5.0	0.1

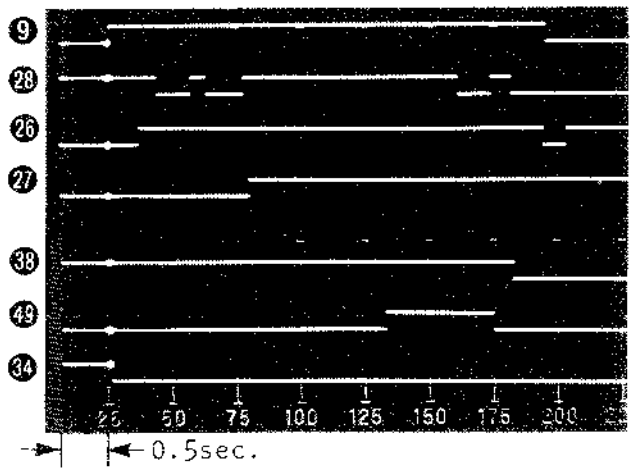
REF. NO.	QR6012			QR6013		
MODE	E	C	B	E	C	B
STOP	0.2	0.2	3.7	0	0.1	0.6
PLAY	4.9	4.7	4.8	0	0	2.7
REC	4.9	4.7	4.8	0	0.1	0.6
F.F	4.8	3.3	4.5	0	0.1	0.6
REW	4.8	3.3	4.5	0	0.1	0.6

MICROPROCESSOR (IC6001: MN15342VGC•3) MODE BY MODE TIMING CHART

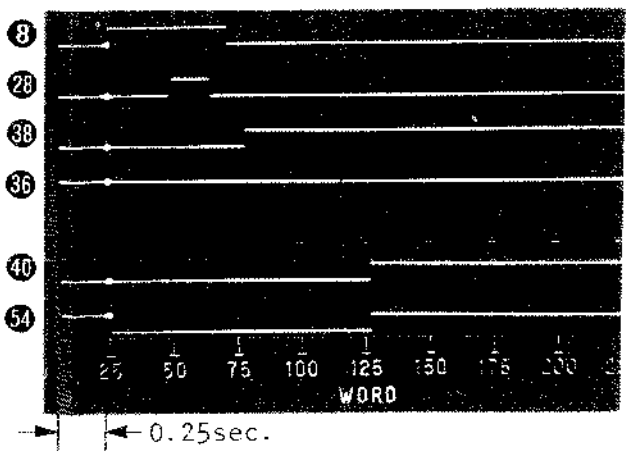
STOP → PLAY
IC Pin No.



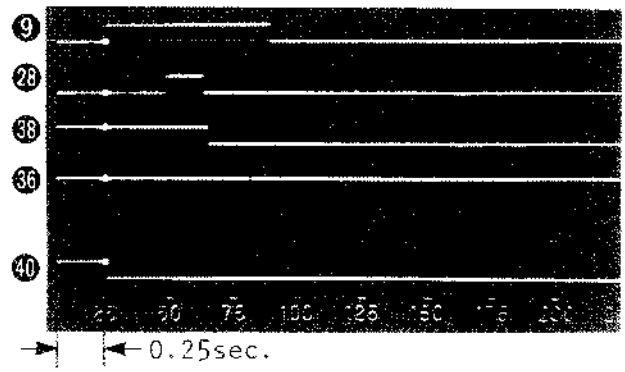
PLAY → STOP
IC Pin No.



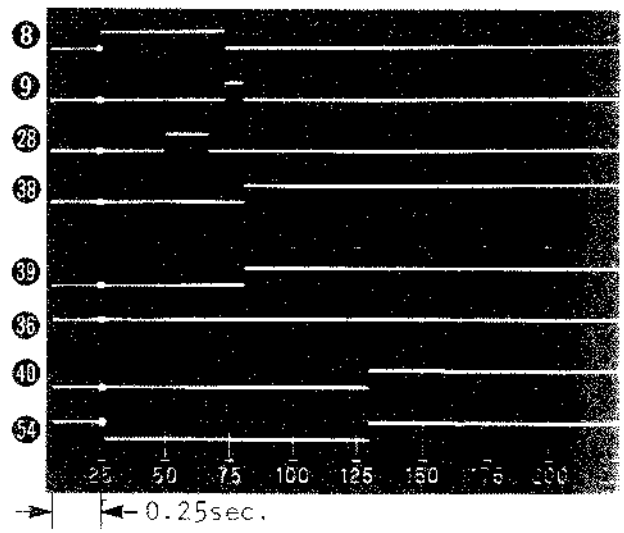
STOP → FF
IC Pin No.



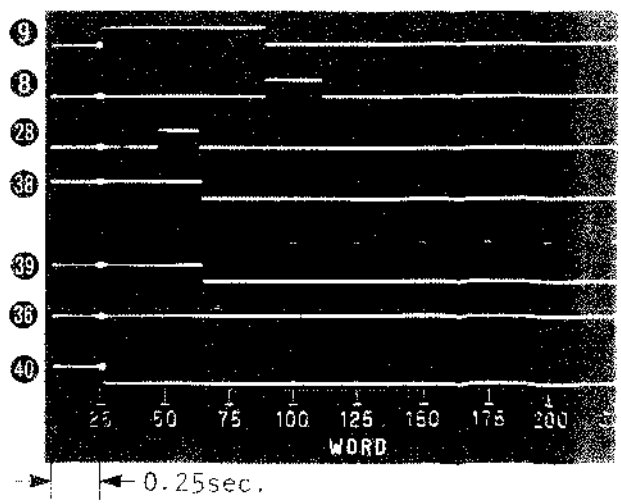
FF → STOP
IC Pin No.



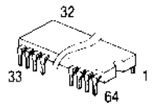
STOP → REW
IC Pin No.



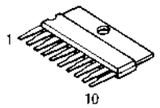
REW → STOP
IC Pin No.



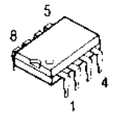
ICs & TRANSISTORs INFORMATION



MN15342VGC

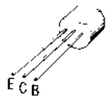


BA6209

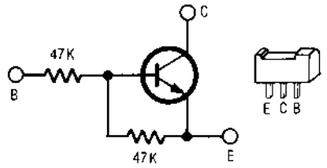


AN6914

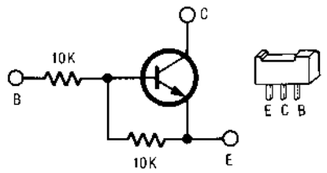
2SD636
2SB819
2SB641



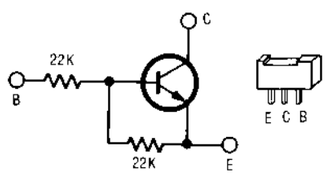
2SA719



DTC144A



DTC114A

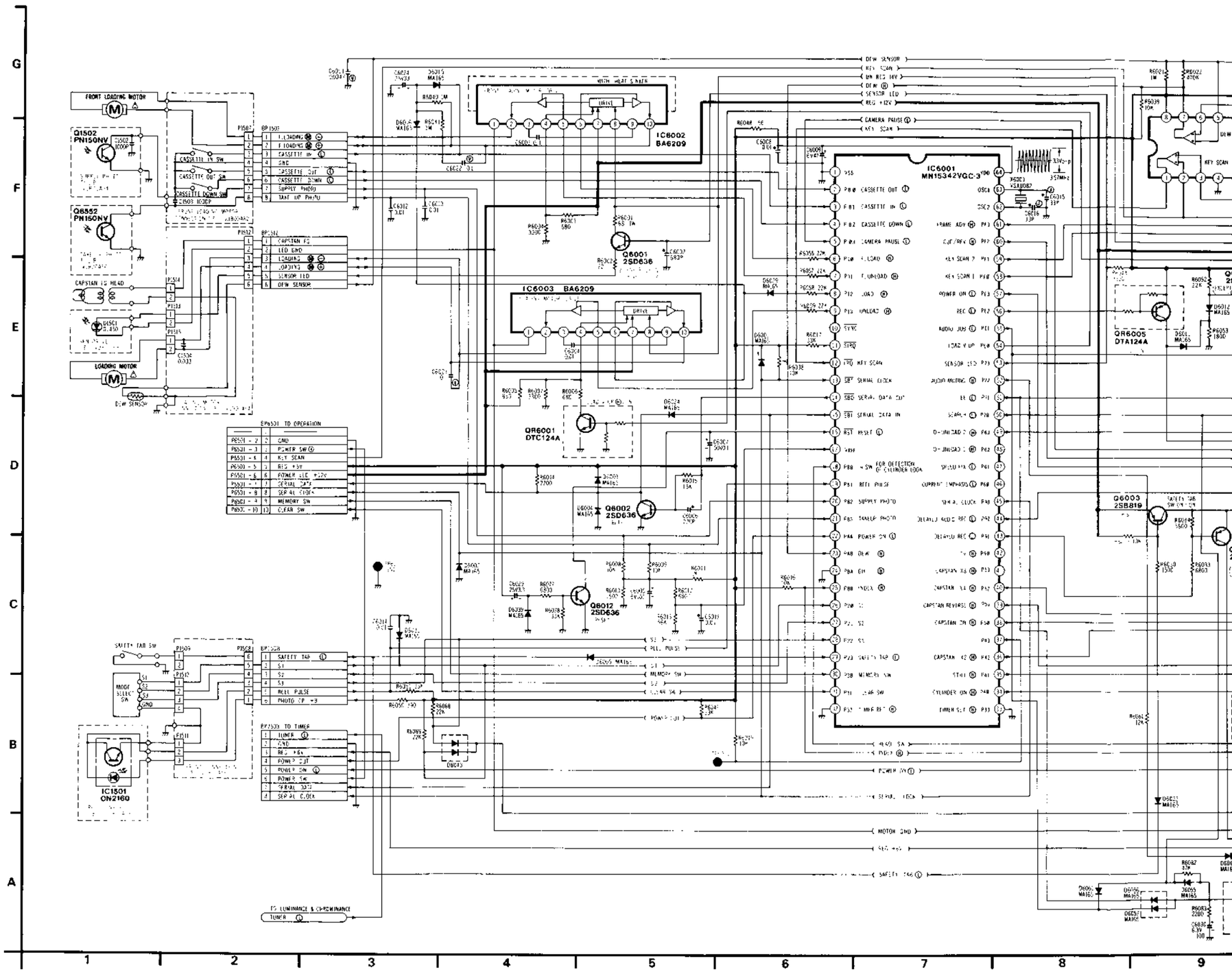


DTC124A

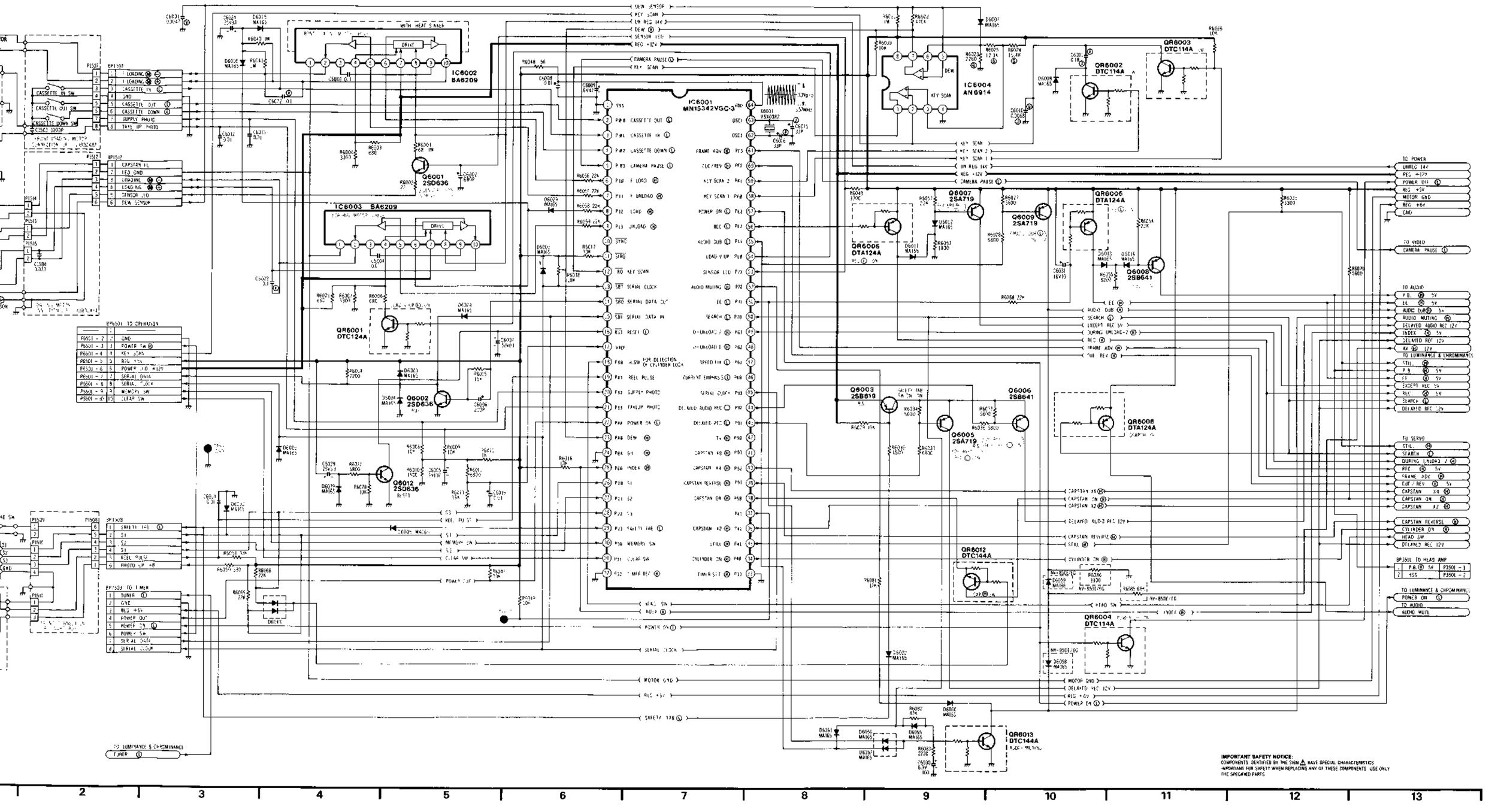
SYSTEM CONTROL SCHEMATIC	
Transistor	
Q1502	F-1
Q6001	E-5
Q6002	D-5
Q6003	D-9
Q6005	D-9
Q6006	D-10
Q6007	F-9
Q6008	E-11
Q6009	F-10
Q6012	C-5
Q6552	F-1
Transistor & Resistor	
QR6001	D-5
QR6002	F-10
QR6003	F-11
QR6004	B-11
QR6005	E-9
QR6006	E-10
QR6008	D-10
QR6012	B-9
QR6013	A-10
Integrated Circuit	
IC1501	B-1
IC6001	E-7
IC6002	G-4
IC6003	E-4
IC6004	F-9
Test Point	
TP6001	B-5
TP6002	C-3
Connector	
BP1507	F-2
BP1508	C-2
BP1512	F-2
BP3501	B-13
BP6501	D-2
BP7503	B-2

ADDRESS INFORMATION

3-9. SYSTEM CONTROL SCHEMATIC DIAGRAM

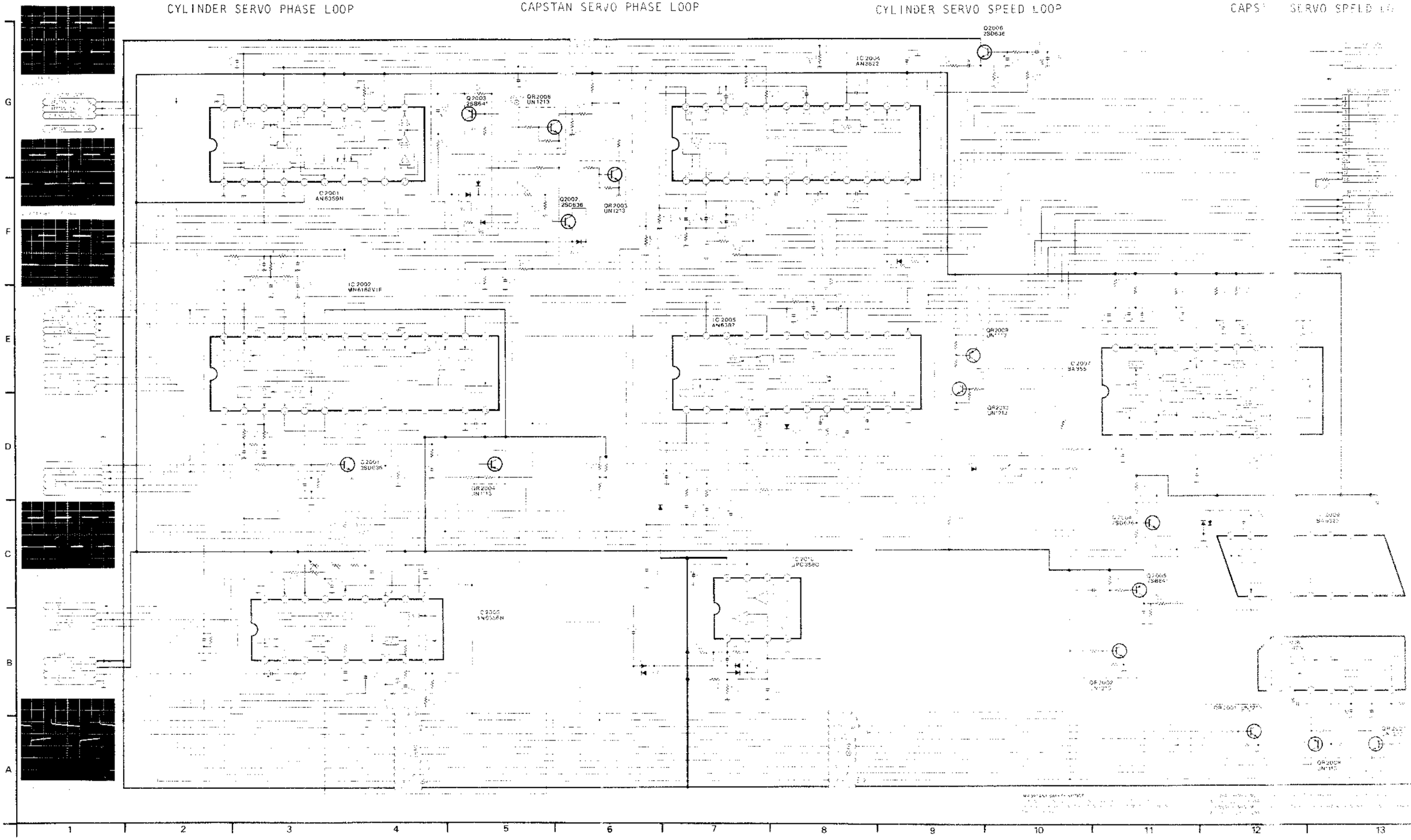


M CONTROL SCHEMATIC DIAGRAM



Next Page:
SERVO Section

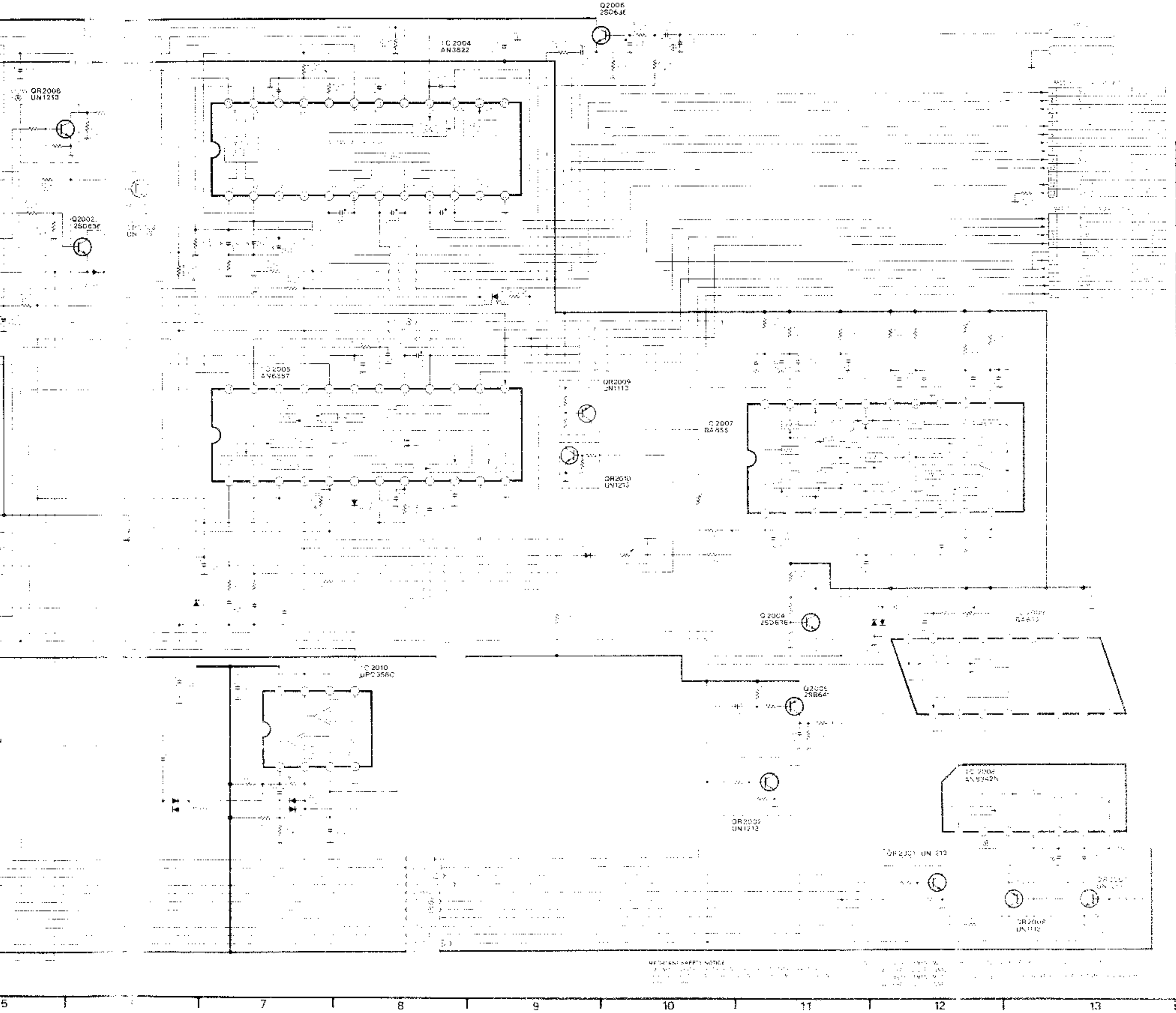
3-10. SERVO SCHEMATIC DIAGRAM



CAPSTAN SERVO PHASE LOOP

CYLINDER SERVO SPEED LOOP

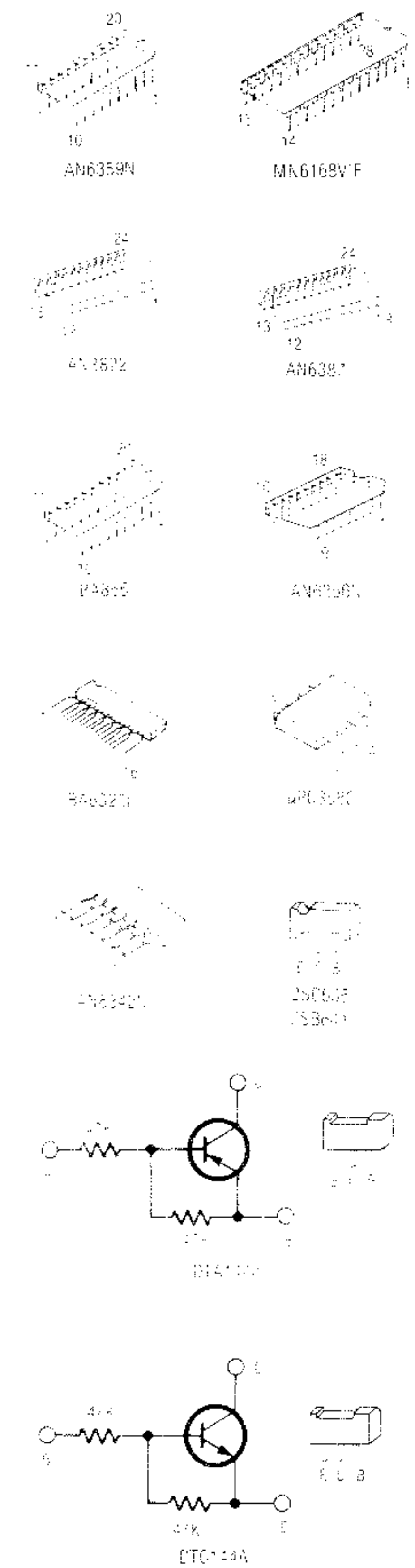
CAPSTAN SERVO SPEED LOOP



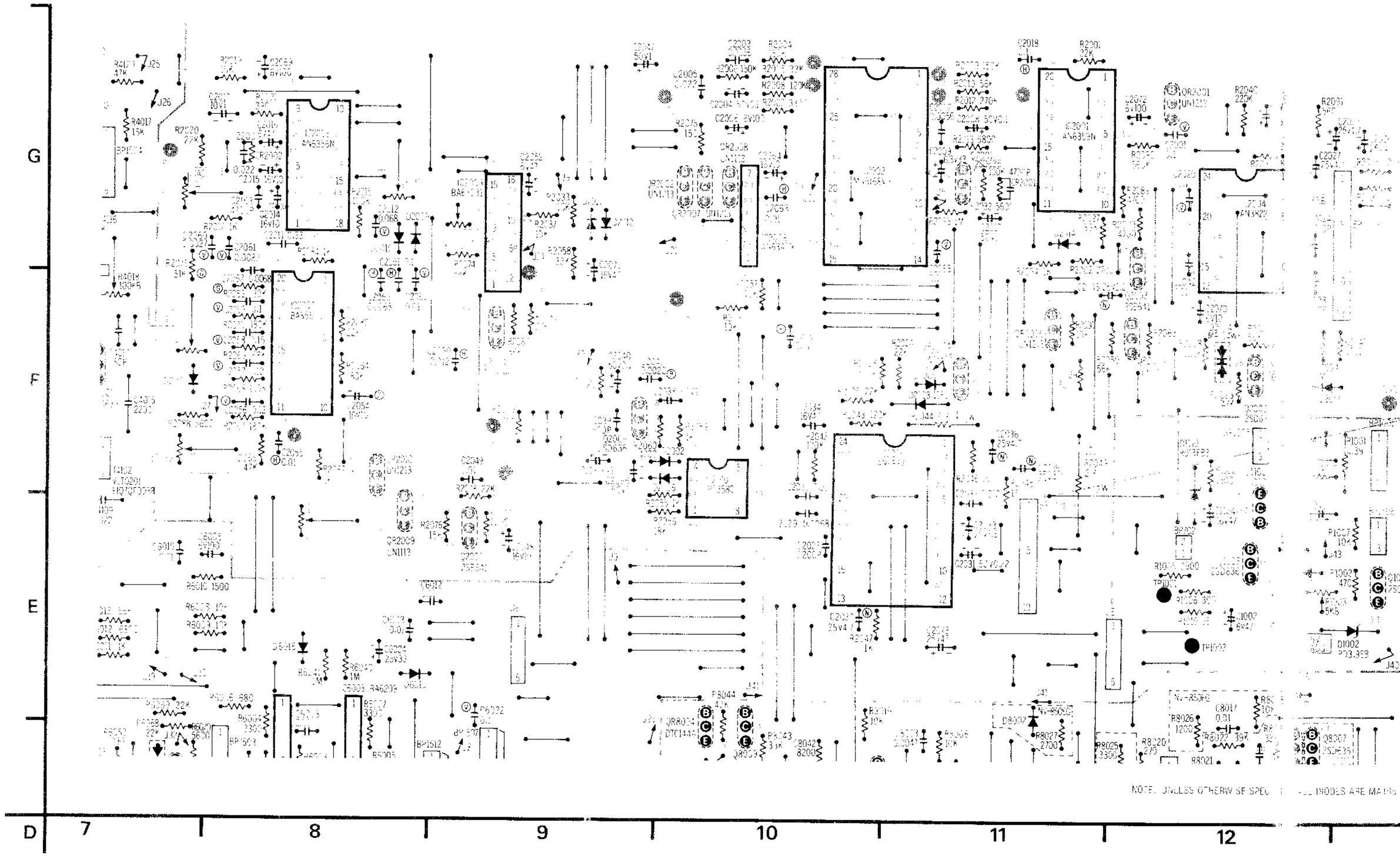
SERVO SCHEMATIC	
Transistor	
Q2001	D-4
Q2002	F-5
Q2003	G-5
Q2004	G-11
Q2005	G-11
Q2006	G-10
Transistor & Resistor	
QR2001	A-12
QR2002	B-11
QR2003	F-6
QR2004	D-5
QR2006	G-A
QR2007	B-13
QR2008	B-13
QR2009	E-9
QR2010	D-9
Integrated Circuit	
IC2001	G-3
IC2002	[illegible]
IC2003	[illegible]
IC2004	G-8
IC2005	D-8
[illegible]	[illegible]
IC2007	B-12
[illegible]	[illegible]
[illegible]	[illegible]
Test Point	
[illegible]	[illegible]
TP2002	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
Adjustment	
[illegible]	[illegible]
Connector	
[illegible]	[illegible]

[illegible]

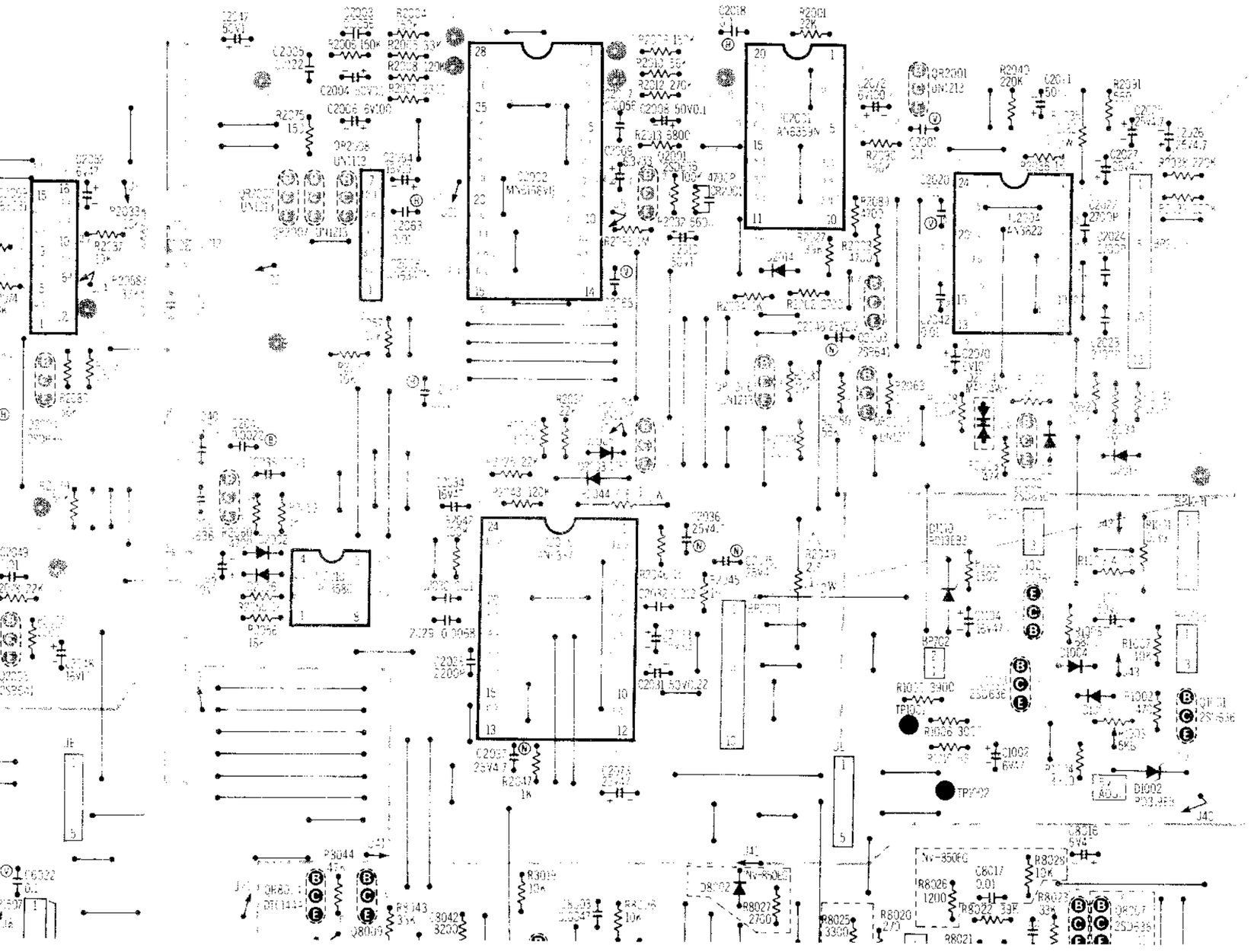
ICs & TRANSISTORs INFORMATION



3-11. SERVO Section In Main Circuit Board
(VEP03197A: NV-850EG/VEP03197B: NV-850B/VEP03197C: NV-850E)



VEP03197C: 2 W (50E)



NOTE: UNLESS OTHERWISE SPECIFIED ALL DIODES ARE MA165

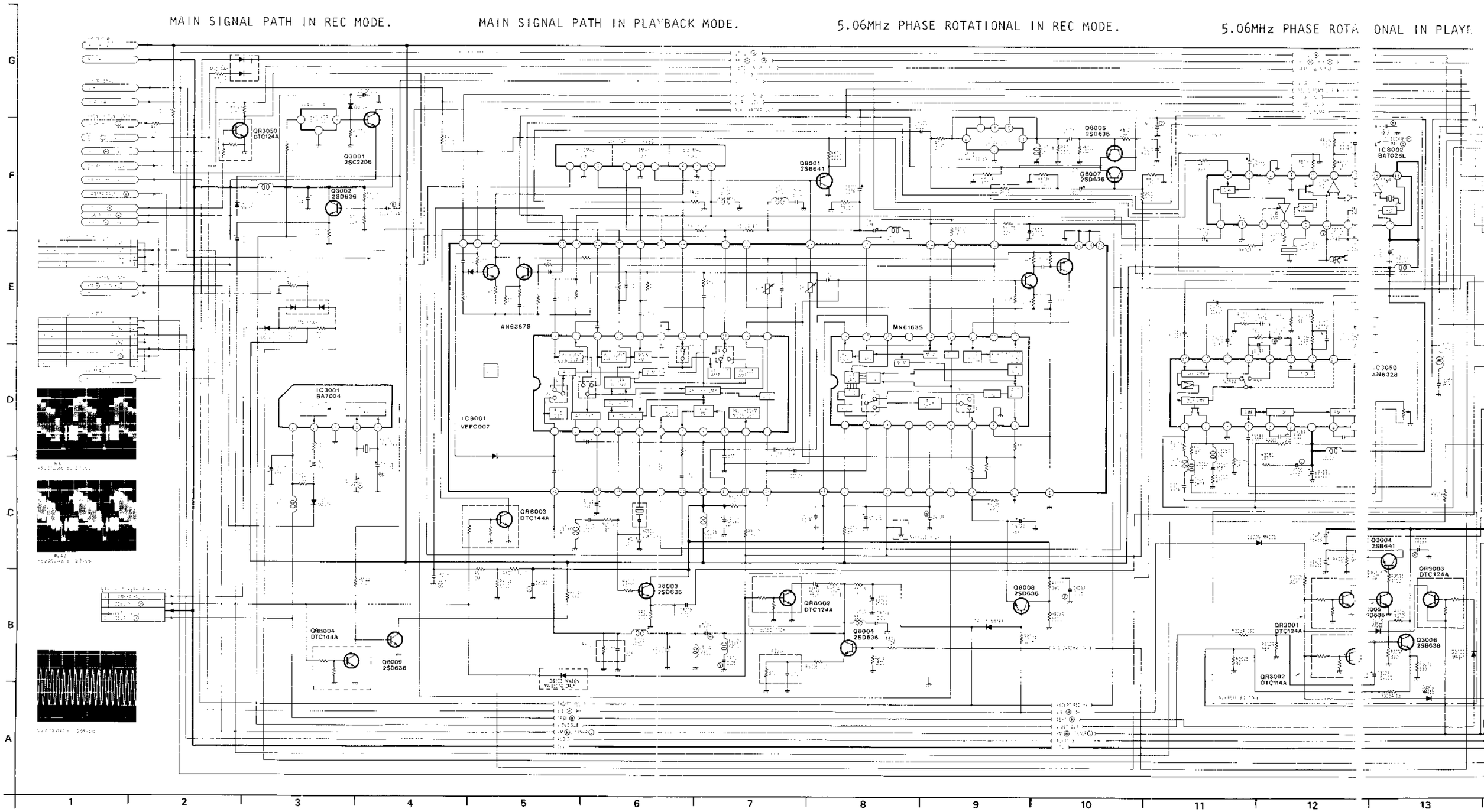
SERVO CIRCUIT BOARD

Transistor

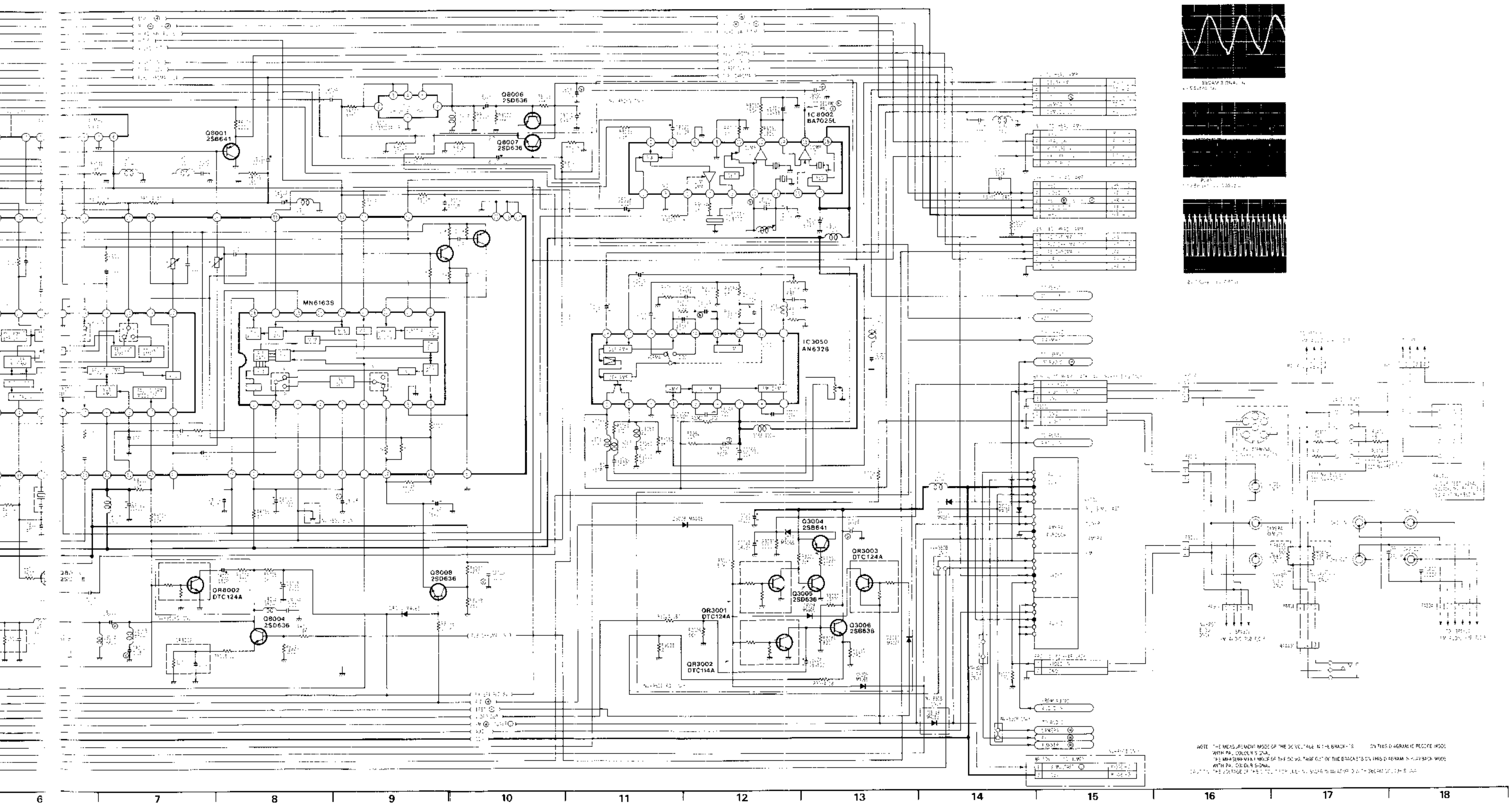
Transistor & Resistor

Next Page:
LUMINANCE (1) & CHROMINANCE Section

3-12. LUMINANCE (1) & CHROMINANCE SCHEMATIC DIAGRAM



IN PL··CK MODE.　　5.06MHz PHASE ROTATIONAL IN REC MODE.　　5.06MHz PHASE ROTATIONAL IN PLAYBACK MODE.

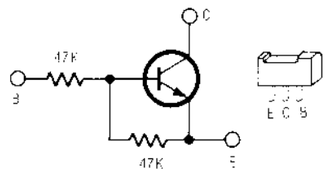


3-13. LUMINANCE (1) & CHROMINANCE Section In Main Circuit Board (VEP03197A: NV-850EG/VEP03197B: NV-850B/VEP03197C: NV-850E

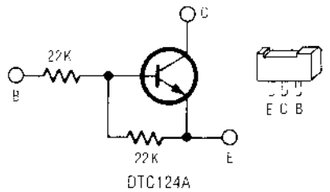
LUMINANCE, CHROMINANCE SCHEMATIC	
Transistor	
Q3001	G-4
Q3002	F-3
Q3004	B-13
Q3005	B-13
Q3006	B-13
Q8001	F-8
Q8003	B-6
Q8004	B-8
Q8006	F-10
Q8007	F-10
Q8008	B-9
Q8009	B-4
Transistor & Resistor	
QR3001	B-12
QR3002	B-12
QR3003	B-13
QR3050	F-5
QR8002	B-7
QR8003	C-5
QR8004	B-3
Integrated Circuit	
IC3001	D-3
IC3050	D-12
IC8001	D-5
IC8002	F-12
Test Point	
TP3001	E-3
TP3051	E-12
TP8001	B-6
TP8002	C-7
TP8003	C-9
TP8004	B-4
TP8005	E-12
TP GND	B-9
Adjustment	
R3018	D-13
R3056	E-12
L8009	E-12
Connector	
BP1	D-1
BP701	E-1
BP3001	B-15
BP3002	D-15
BP3003	B-2
BP3004	D-15
BP7506	A-16
JSA	E-15
JSB	F-15
JSC	F-15
JSD	F-15

ADDRESS INFORMATION

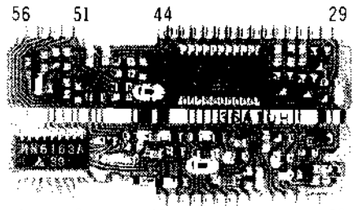
ICs & TRANSISTORs INFORMATION



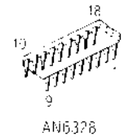
DTC144A



DTC124A

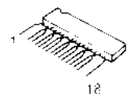


VEFC007



AN6378

BA7004

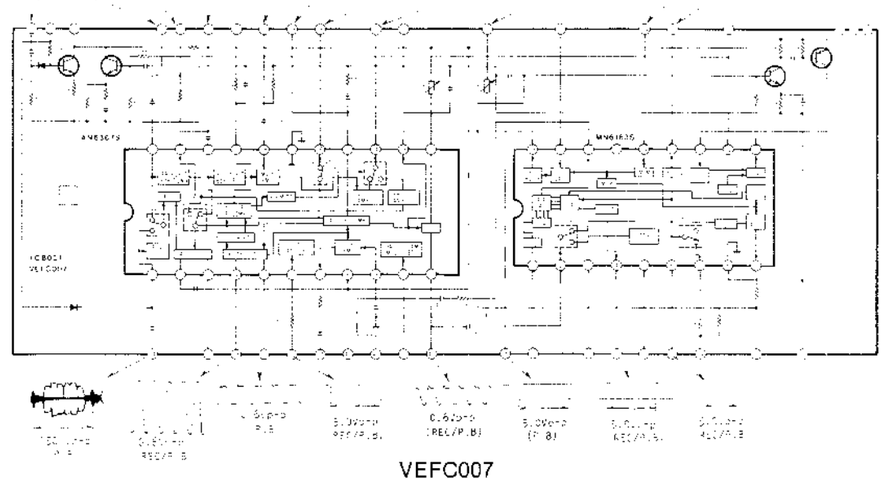


BA7025L

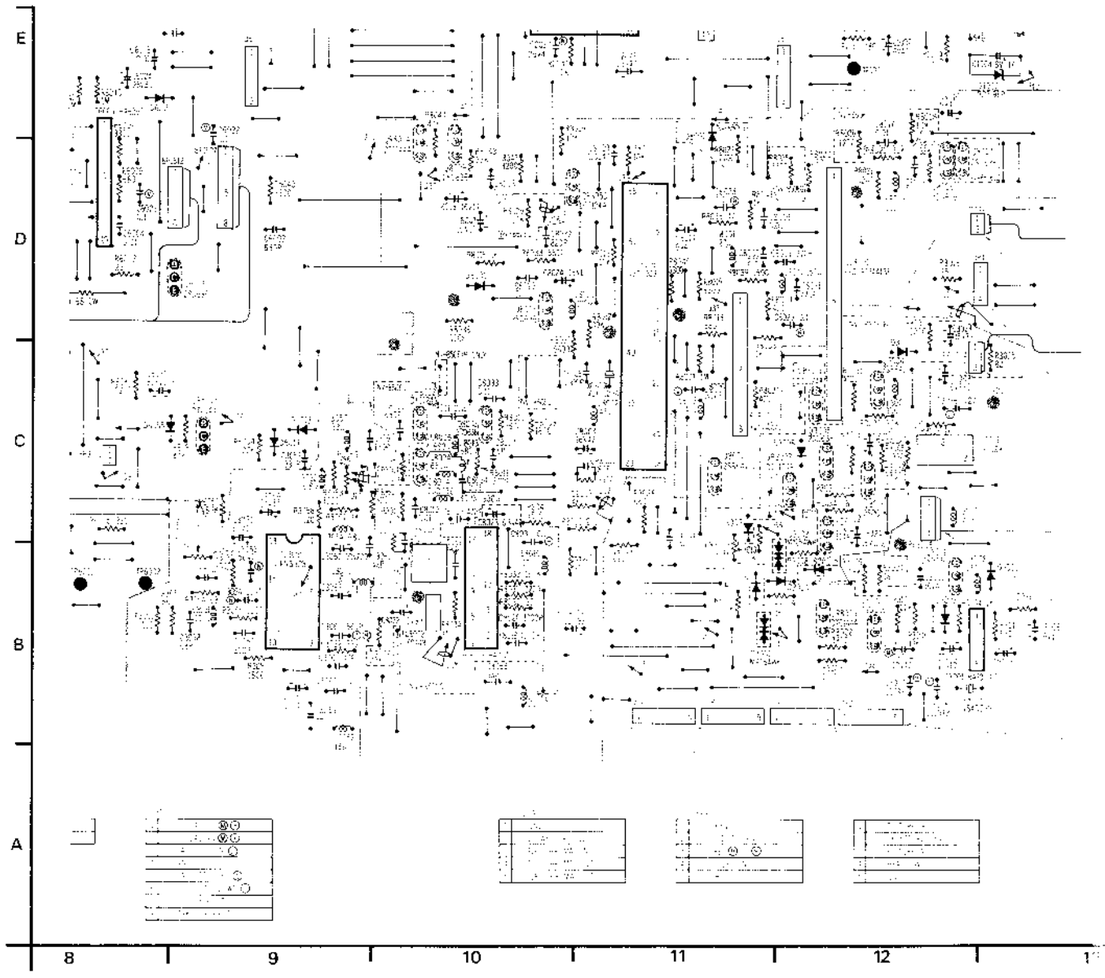
2SC2206
2SD636
2SB641
2SD638

LUMINANCE & CHROMINANCE CIRCUIT BOARD	
Transistor	
Q3001	B-13
Q3002	B-12
Q3004	C-12
Q3005	C-13
Q3006	C-12
Q8001	C-11
Q8003	C-10
Q8004	C-10
Q8006	D-12
Q8007	B-12
Q8008	B-10
Q8009	B-10
Transistor & Resistor	
QR3001	C-12
QR3002	C-12
QR3003	C-12
QR3050	D-11
QR8002	C-10
QR8003	B-12
QR8004	D-10
Integrated Circuit	
IC3001	B-13
IC3050	B-9
IC8001	D-11
IC8002	B-10
Test Point	
TP3001	B-12
TP3051	C-10
TP8001	D-10
TP8002	D-11
TP8003	D-11
TP8004	D-12
TP8005	B-10
TP GND	C-12
Adjustment	
R3018	D-5
R3056	B-9
L8009	B-10

ADDRESS INFORMATION



VEFC007

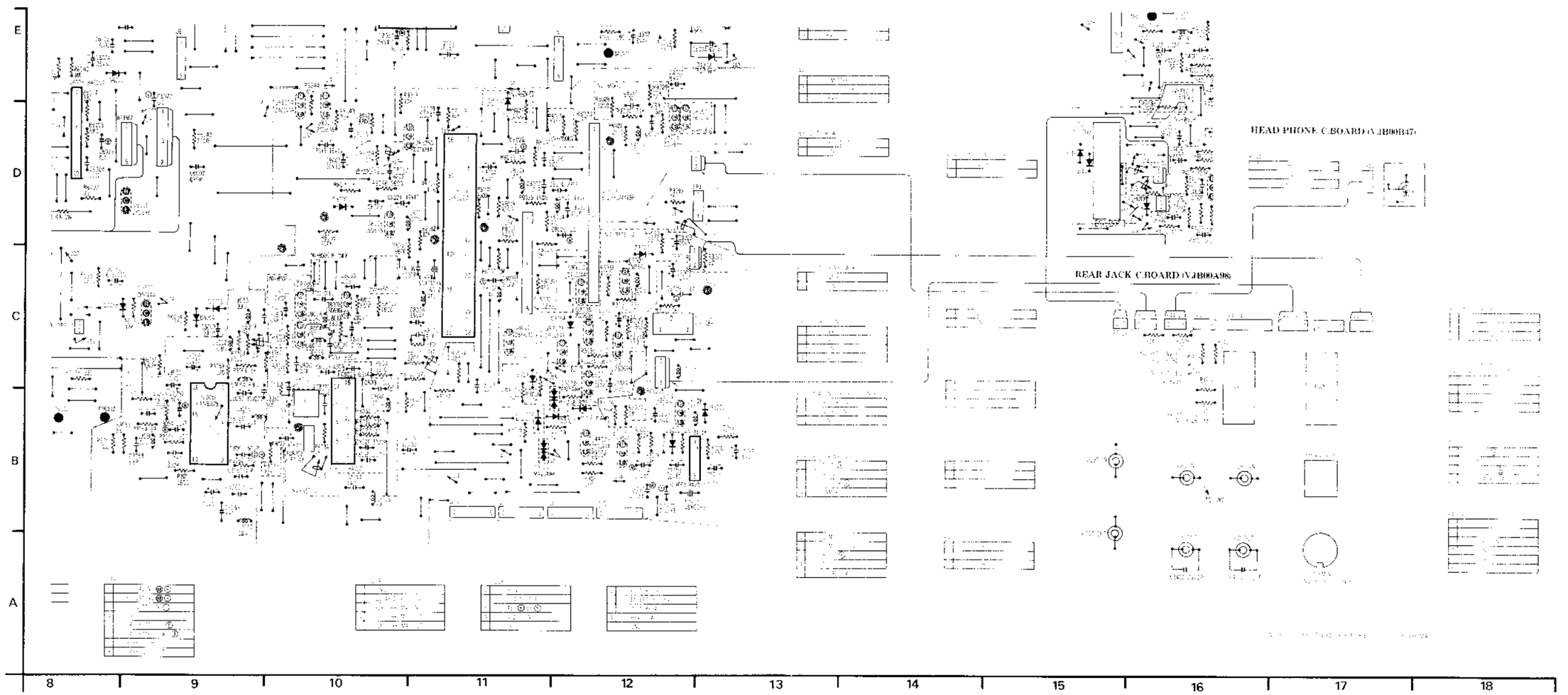


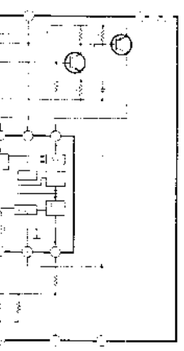
3-13. LUMINANCE (1) & CHROMINANCE Section In Main Circuit Board (VEP03197A: NV-850EG/VEP03197B: NV-850B/VEP03197C: NV-850E)

LUMINANCE & CHROMINANCE CIRCUIT BOARD

Transistor	
Q3001	B-12
Q3002	B-12
Q3004	C-12
Q3005	C-12
Q3006	C-12
Q8001	C-11
Q8003	C-10
Q8004	C-10
Q8006	D-12
Q8007	D-12
Q8008	D-10
Q8009	D-10
Transistor & Resistor	
QR3001	C-12
QR3002	C-12
QR3003	C-12
QR3050	D-11
QR8002	C-10
QR8003	B-12
QR8004	D-10
Integrated Circuit	
IC3001	B-13
IC3050	B-9
IC8001	D-11
IC8002	B-10
Test Point	
TP3001	B-12
TP3051	C-10
TP8001	D-10
TP8002	D-11
TP8003	D-11
TP8004	D-12
TP8005	B-10
TP GND	C-13
Adjustment	
R3015	D-5
R3055	B-9
L8009	B-10

ADDRESS INFORMATION



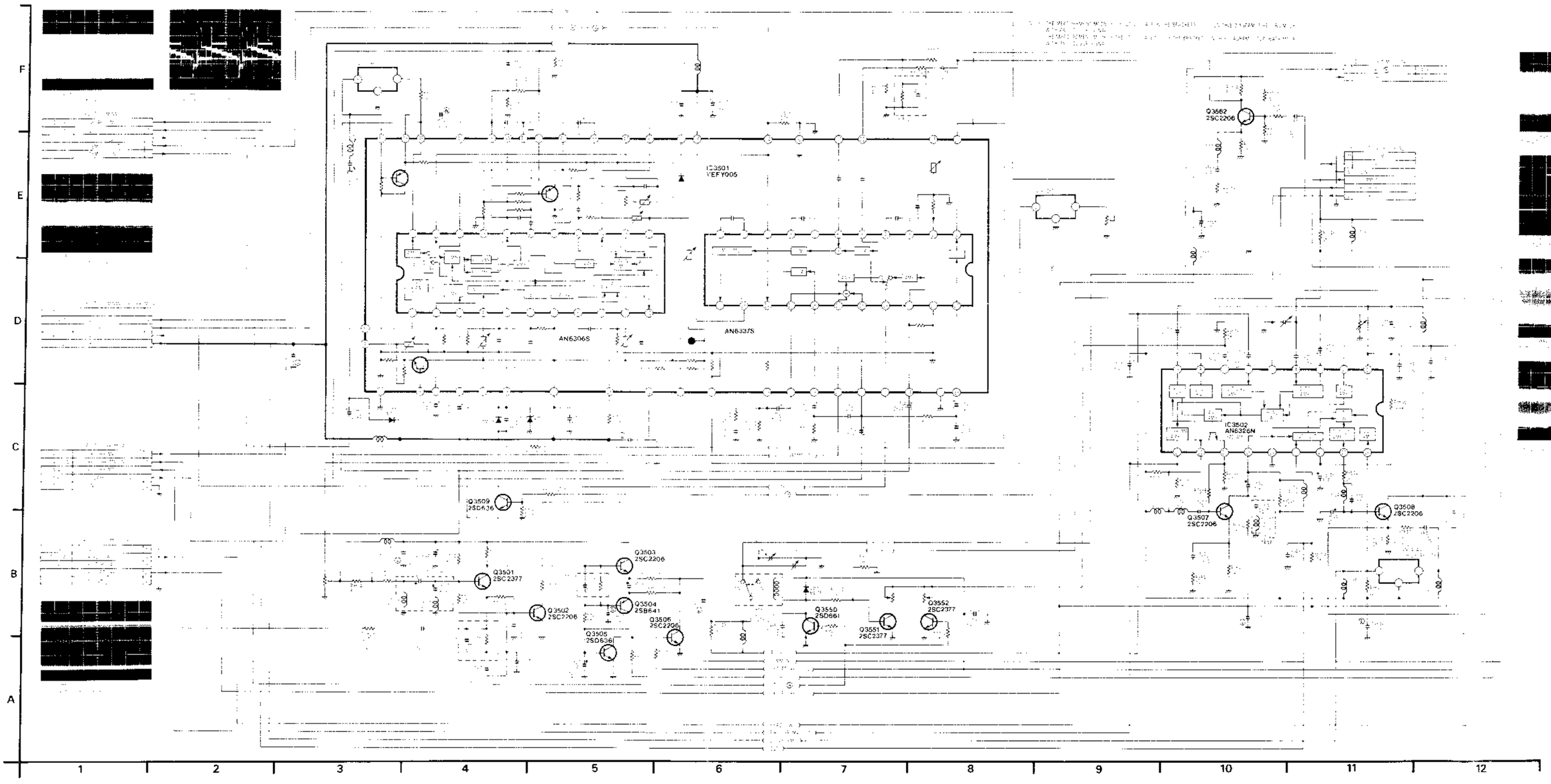


Next Page:
HEAD AMP & LUMINANCE (2) Section

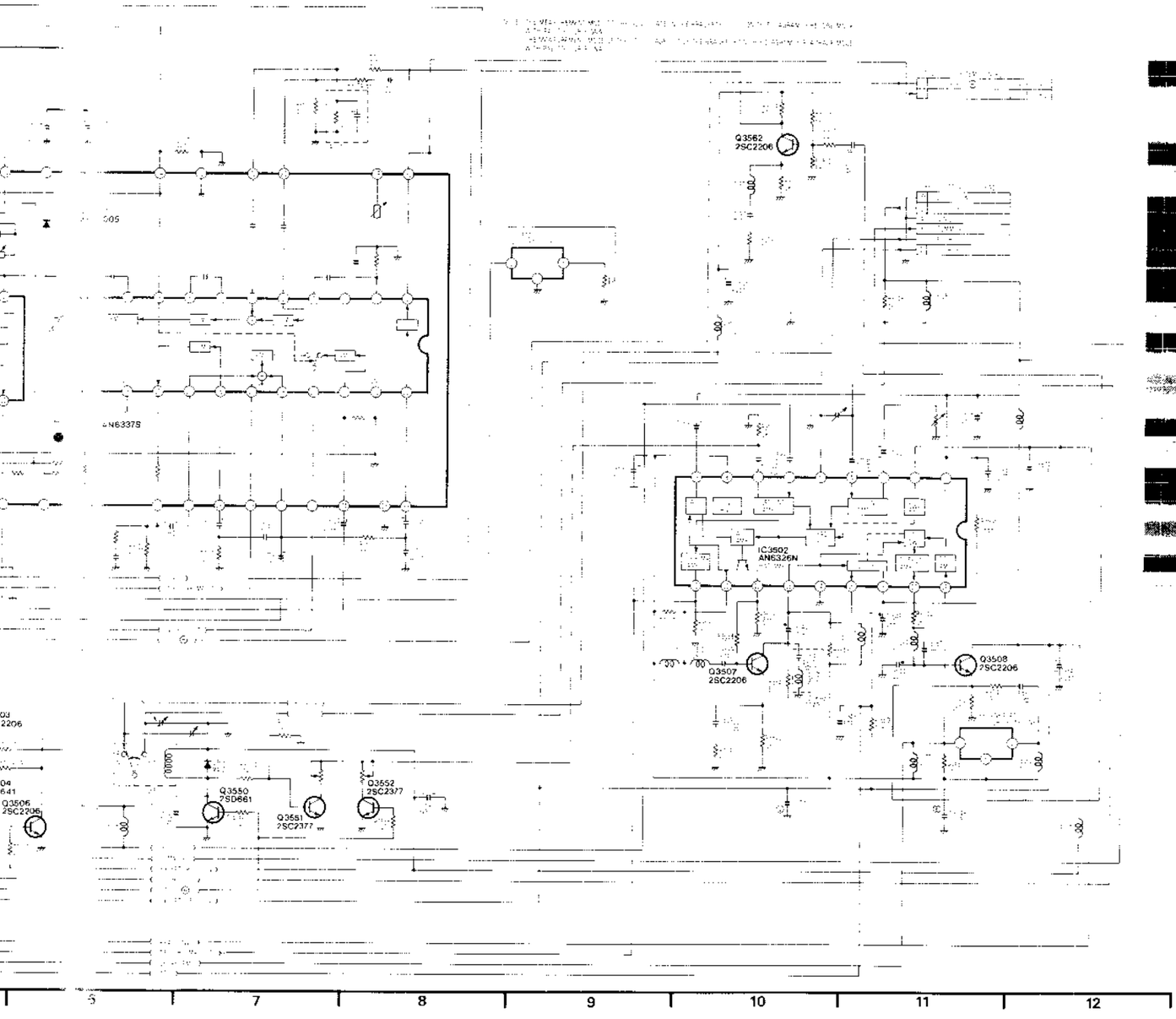
3-14. HEAD AMP & LUMINANCE (2) SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE.

MAIN SIGNAL PATH IN PLAYBACK MODE.



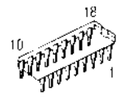
AIN SIGNAL PATH IN PLAYBACK MODE.



HEAD AMP SCHEMATIC	
Transistor	
Q3501	B-4
Q3502	B-5
Q3503	B-5
Q3504	B-5
Q3505	A-5
Q3506	B-6
Q3507	C-10
Q3508	C-11
Q3509	C-4
Q3550	B-7
Q3551	B-7
Q3552	B-8
Q3562	E-10
Integrated Circuit	
IC3501	E-5
IC3502	C-10
Test Point	
TP3501	F-5
TP3502	B-3
TP3503	C-9
TP3504	D-12
TP3505	B-5
TP3506	D-12
TP3507	B-6
TP3508	D-9
TP3509	B-3
TP GND	E-10
Adjustment	
R3521	B-3
R3552	B-7
R3553	B-8
R3556	D-11
R3575	F-9
C3554	B-7
C3555	B-7
C3556	D-11
Connector	
JPA	C-1
JPB	D-1
JPC	B-1
JPD	F-1
BP002	E-11
P350[illegible]	F-[illegible]

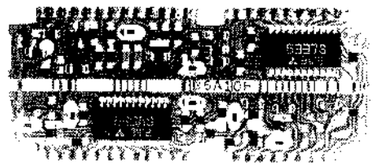
ADDRESS INFORMATION

IC & TRANSISTORs INFORMATION



AN6326N

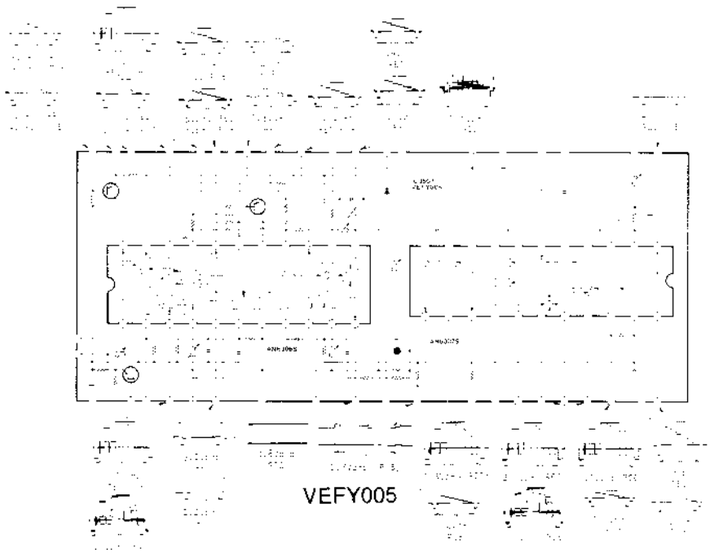
2SC2377
2SC2206
2SB641
2SD661



VEFY005

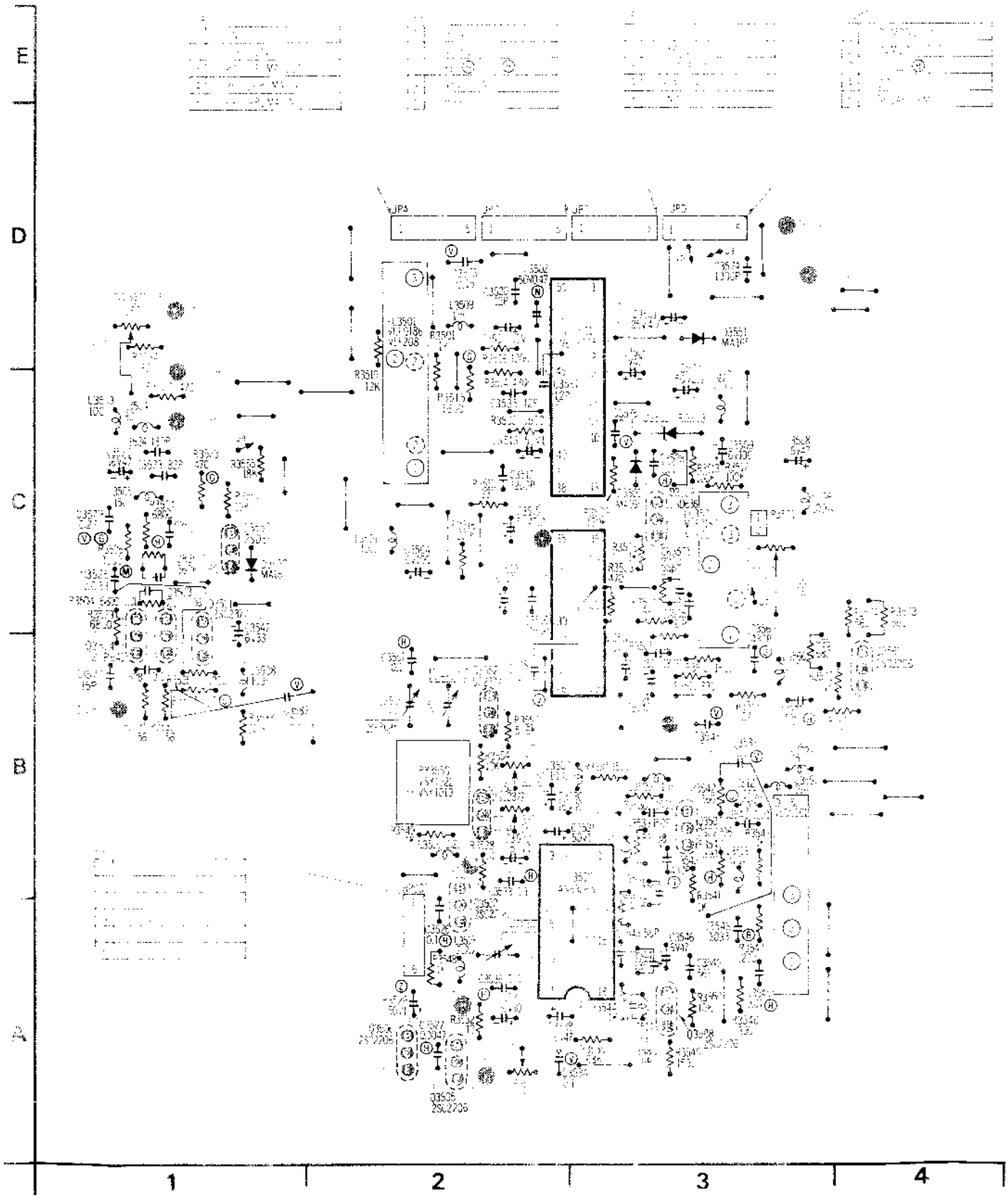
HEAD AMP CIRCUIT BOARD	
Transistor	
Q3501	B-1
Q3502	A-2
Q3503	B-1
Q3504	B-1
Q3505	A-2
Q3506	A-2
Q3507	B-3
Q3508	A-3
Q3509	C-3
Q3550	C-1
Q3551	B-2
Q3552	B-2
Q3562	B-4
Integrated Circuit	
IC3501	C-2
IC3502	A-3
Test Point	
TP3501	C-2
TP3502	C-1
TP3503	B-3
TP3504	D-3
TP3505	A-2
TP3506	A-2
TP3507	B-1
TP3508	B-2
TP3509	D-1
TP GND	D-1
TP GND	D-3
Adjustment	
R3521	D-1
R3552	B-2
R3553	B-2
R3556	A-2
R3575	C-3
C3554	B-2
C3555	B-2
C3556	A-2

ADDRESS INFORMATION

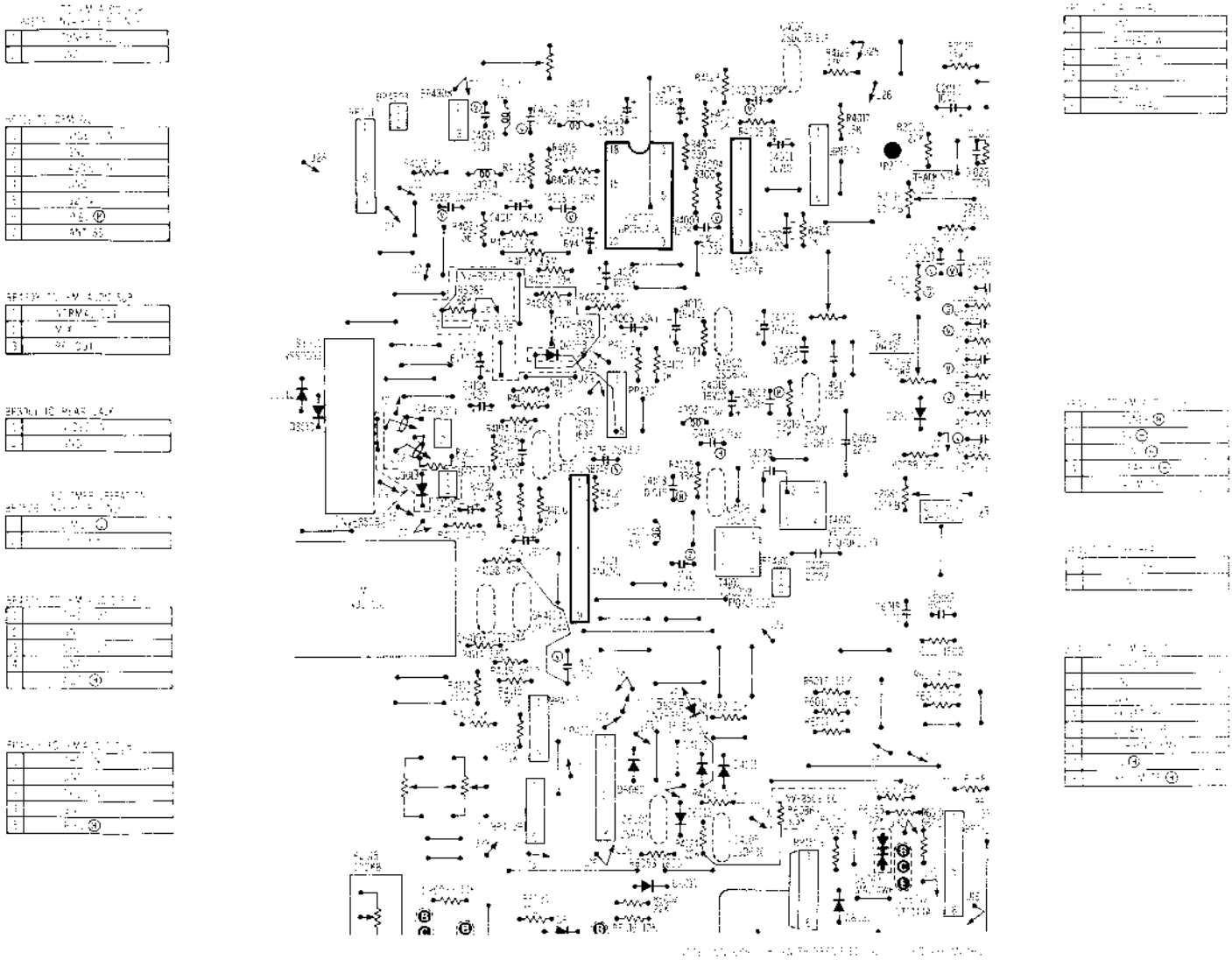


VEFY005

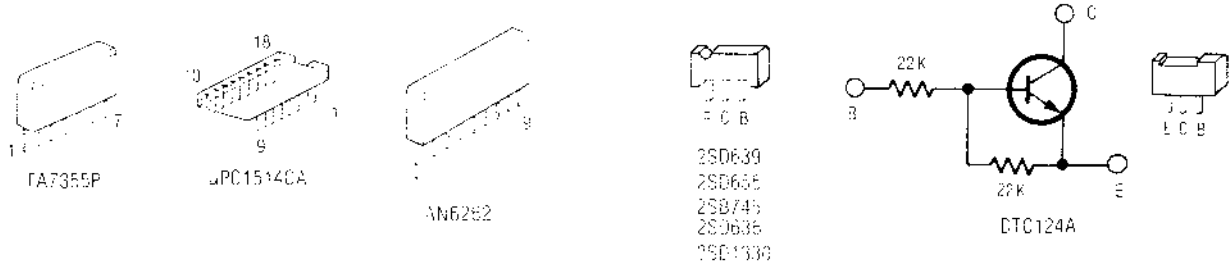
3-15. HEAD AMP & LUMINANCE (2) CIRCUIT BOARD (VEP05053A)



3-16. AUDIO Section In Main Circuit Board (VEP03197A: NV-850EG/VEP03197B: NV-850B/VEP03197C

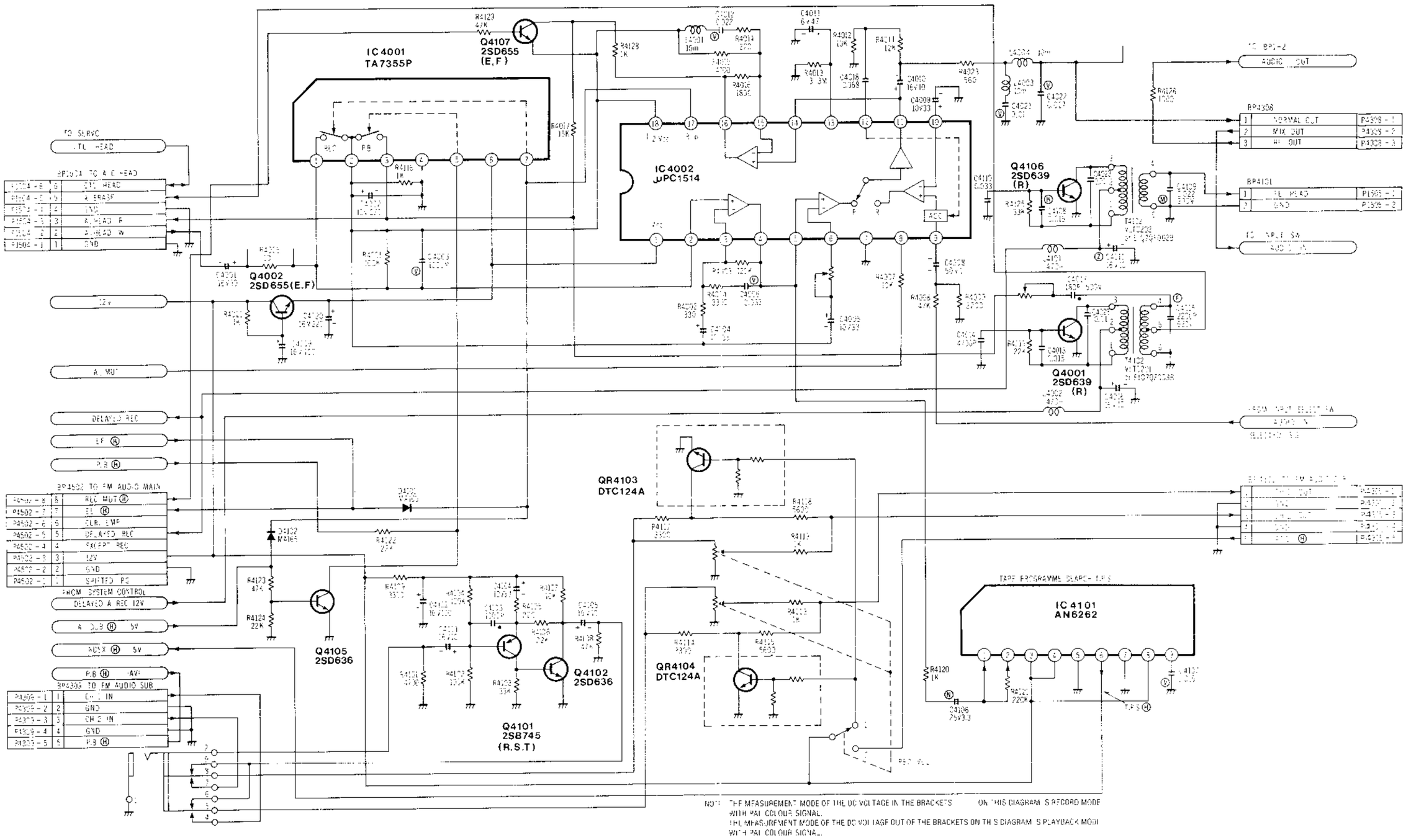


ICs & TRANSISTORs INFORMATION



3-17. AUDIO SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE. MAIN SIGNAL PATH IN PLAYBACK MODE.



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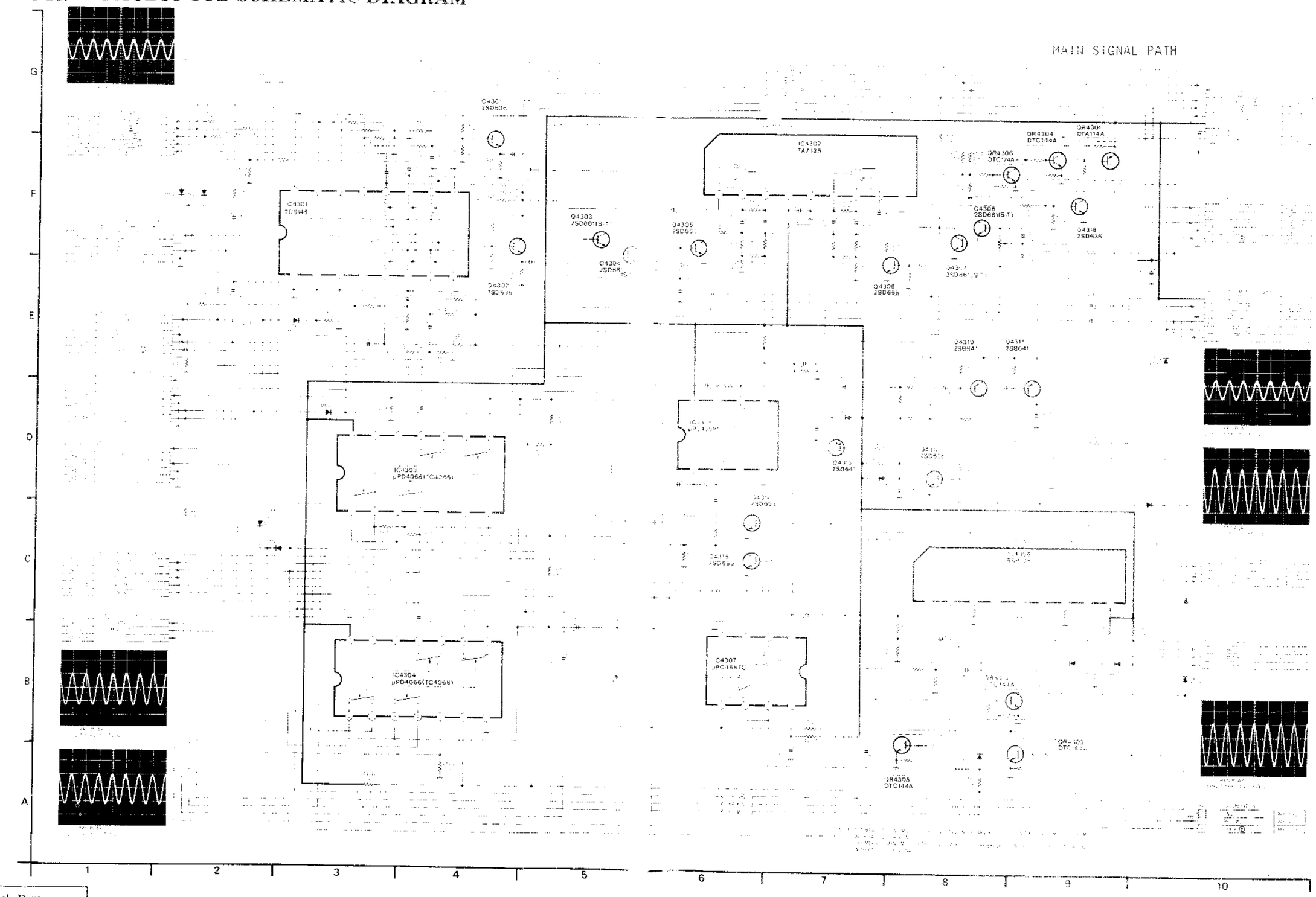
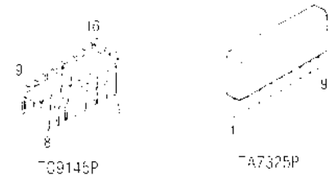
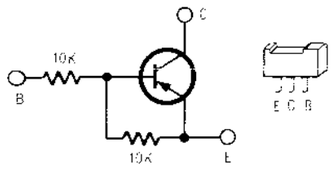
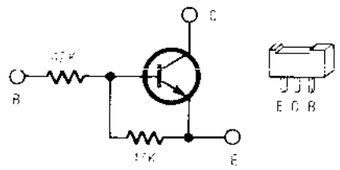
3-18. FM AUDIO SUB SCHEMATIC DIAGRAM

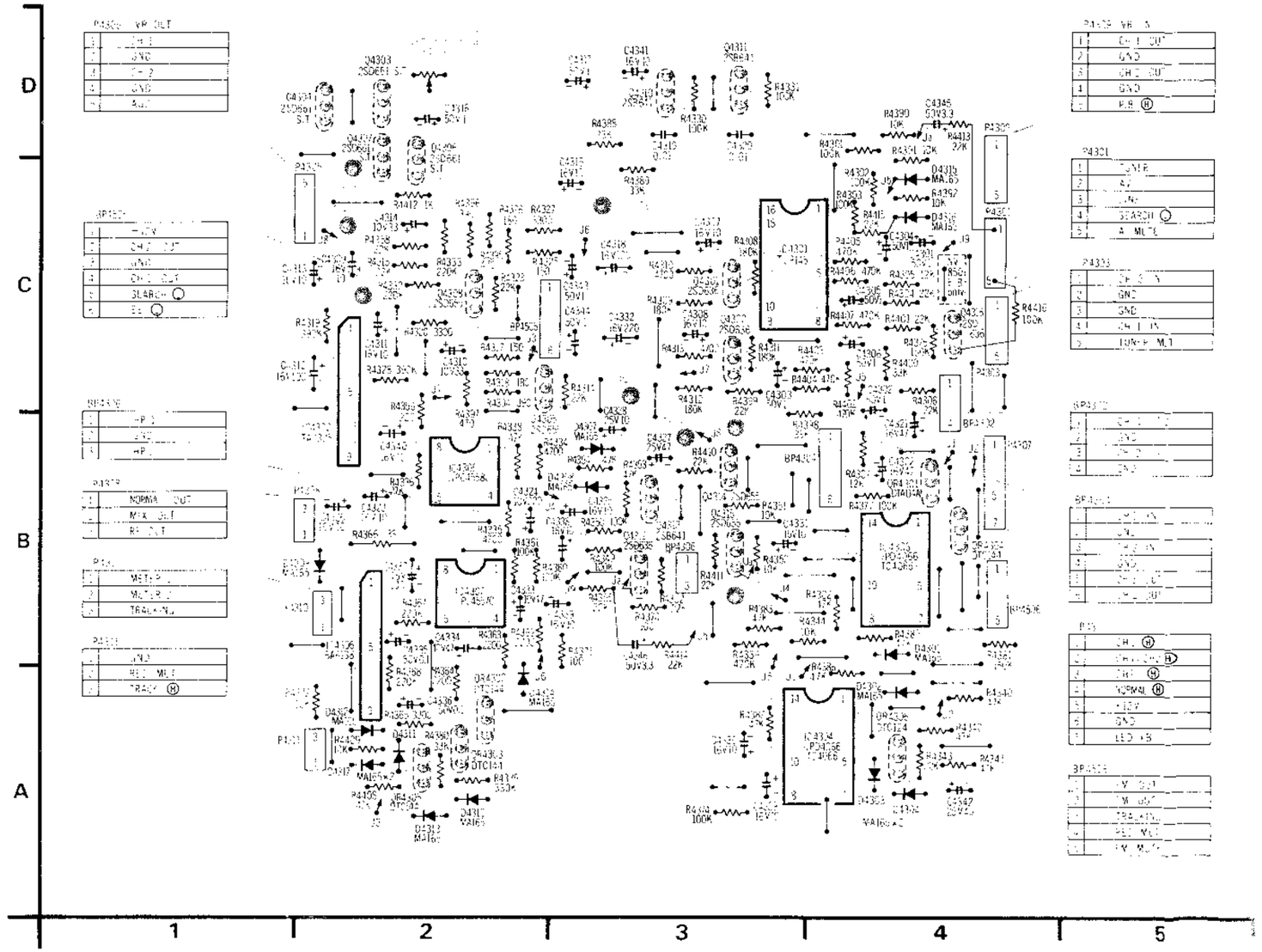


Back Page:
AUDIO Section









FM AUDIO SUB SCHEMATIC	
Transistor	
Q4301	G-4
Q4302	F-4
Q4303	F-5
Q4304	F-5
Q4305	F-6
Q4306	F-6
Q4307	F-6
Q4308	F-6
Q4310	D-8
Q4311	D-9
Q4312	D-8
Q4313	D-7
Q4314	C-6
Q4315	C-6
Q4318	F-9
Transistor & Resistor	
QR4301	F-9
QR4302	B-9
QR4303	B-9
QR4304	F-9
QR4305	B-8
QR4306	F-9
Integrated Circuit	
IC4301	F-3
IC4302	F-7
IC4303	D-4
IC4304	B-4
IC4305	D-5
IC4306	C-5
IC4307	B-5
Test Point	
TP4301	F-10
TP4302	E-7
TP4303	E-8
TP4304	D-5
TP4305	C-5
TP4306	F-5
TP4307	F-8
TP GND	D-9
Adjustment	
R4329	F-8
Connector	
P4301	G-1
P4303	F-1
P4305	D-1
P4308	B-1
P4309	F-10
P4310	B-10
P4311	B-10
BP4302	F-1
BP4304	D-1
BP4306	C-10
BP4307	G-10
BP4505	E-10
BP4506	C-1

ADDRESS INFORMATION

ICs & TRANSISTORs INFORMATION

TC9145P

TA7325P

μPD4066BC

μPC4558C

BA6132

μPC4557C

2SD636
2SD661
2SB641

2SD655

FM AUDIO SUB CIRCUIT BOARD	
Transistor	
Q4301	C-3
Q4302	C-3
Q4303	D-2
Q4304	D-2
Q4305	C-2
Q4306	C-2
Q4307	C-2
Q4308	C-2
Q4310	D-3
Q4311	D-3
Q4312	B-3
Q4313	B-3
Q4314	B-3
Q4315	B-3
Q4318	C-4
Transistor & Resistor	
QR4301	B-4
QR4302	A-2
QR4303	A-2
QR4304	B-4
QR4305	A-2
QR4306	A-4
Integrated Circuit	
IC4301	C-3
IC4302	C-2
IC4303	B-4
IC4304	A-4
IC4305	B-2
IC4306	B-2
IC4307	B-2
Test Point	
TP4301	B-3
TP4302	C-2
TP4303	C-3
TP4304	B-3
TP4305	B-3
TP4306	C-2
TP4307	C-2
TP GND	B-3
Adjustment	
R4329	C-2

ADDRESS INFORMATION

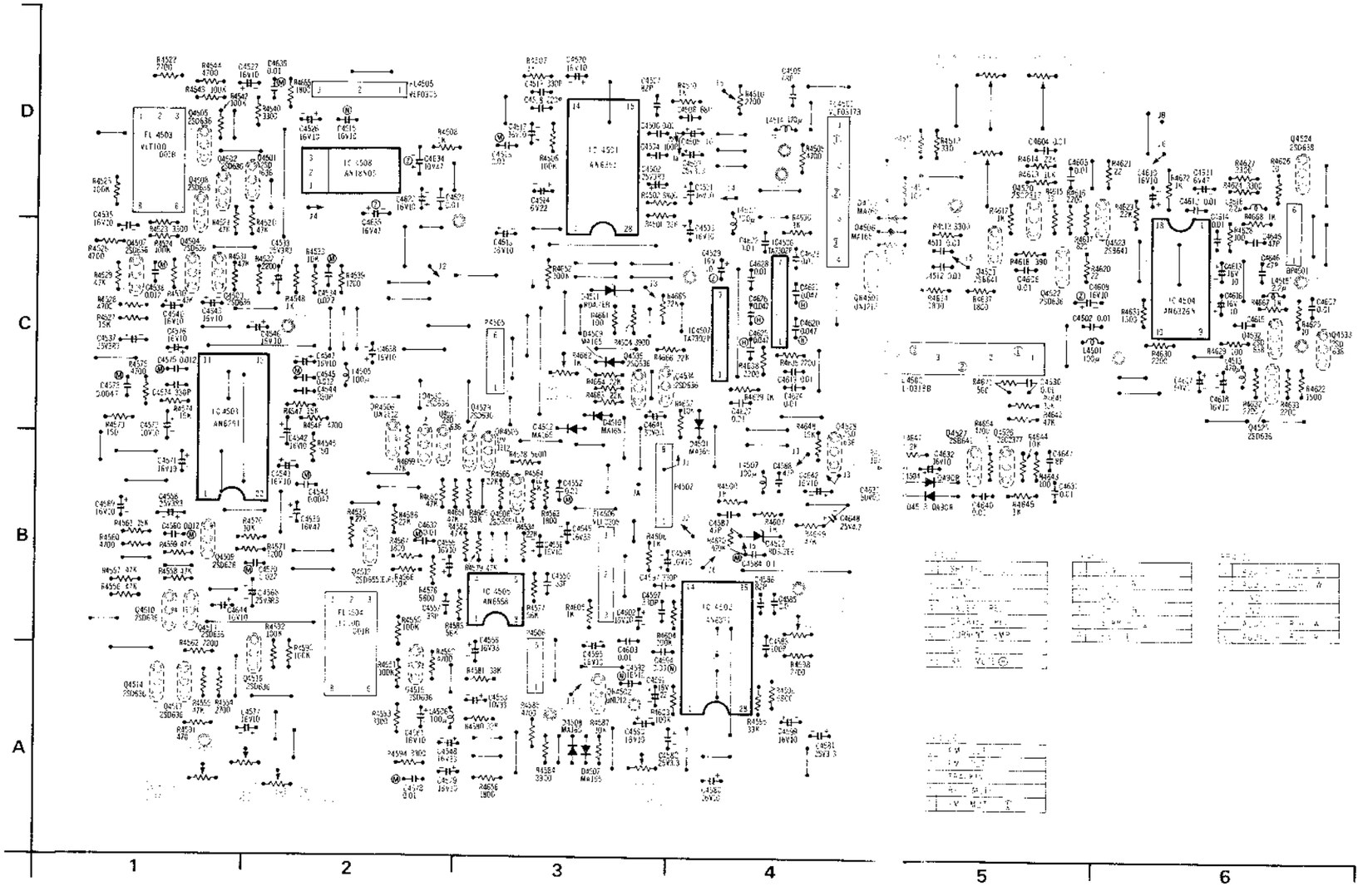
DTC124A

DTA114A

DTC144A

3-19. FM AUDIO SUB CIRCUIT BOARD
(VEP00B01A: NV-850EG/VEP00B01B:

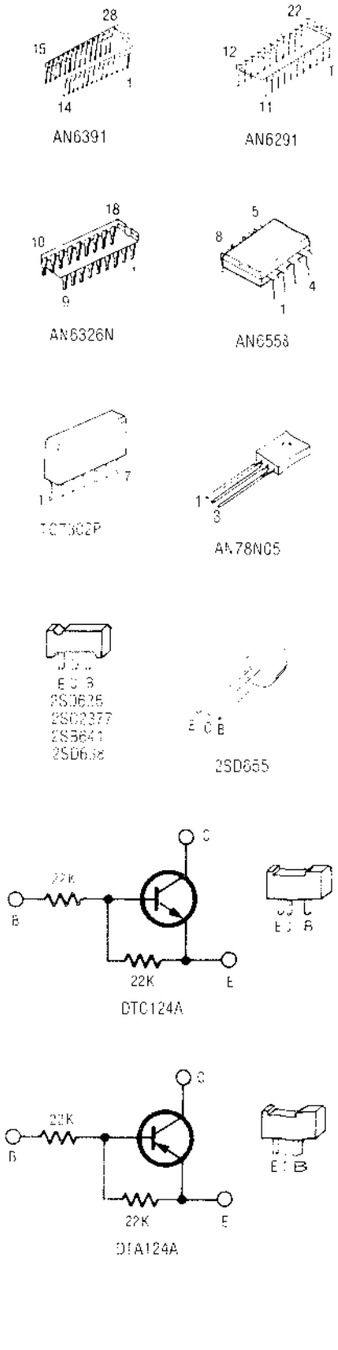
3-20. FM AUDIO MAIN CIRCUIT BOARD (VEP00A99A)



FM AUDIO MAIN CIRCUIT BOARD	
Transistor	
Q4501	D-1
Q4502	D-1
Q4503	C-1
Q4504	C-1
Q4505	D-1
Q4506	B-3
Q4507	C-1
Q4508	D-1
Q4509	B-1
Q4510	B-1
Q4511	B-1
Q4512	B-2
Q4513	A-1
Q4514	A-1
Q4515	A-2
Q4516	A-2
Q4520	C-5
Q4521	C-5
Q4522	C-5
Q4523	C-5
Q4524	D-6
Q4525	C-6
Q4526	B-5
Q4527	B-5
Q4528	C-4
Q4529	B-3
Q4530	B-2
Q4531	B-2
Q4532	C-6
Q4533	C-6
Q4534	C-3
Q4535	C-3
Transistor & Resistor	
QR4501	C-4
QR4502	A-3
QR4505	B-3
QR4506	B-2
Integrated Circuit	
IC4501	C-3
IC4502	A-4
IC4503	C-1
IC4504	C-6
IC4505	B-3
IC4506	C-4
IC4507	C-4
IC4508	D-2
Test Point	
TP4501	C-2
TP4502	D-4
TP4503	D-4
TP4504	D-5
TP4505	A-1
TP4506	A-3
TP4507	C-5
TP4508	C-6
TP4509	C-4
TP4510	B-4
TP4511	C-2
TP4520	C-6
TP4521	A-3
Adjusment	
R4503	C-3
R4516	C-5
R4541	A-2
R4568	C-5
R4572	A-1
R4586	A-3
R4593	A-2
R4597	B-4
R4612	C-5

ADDRESS INFORMAT ON

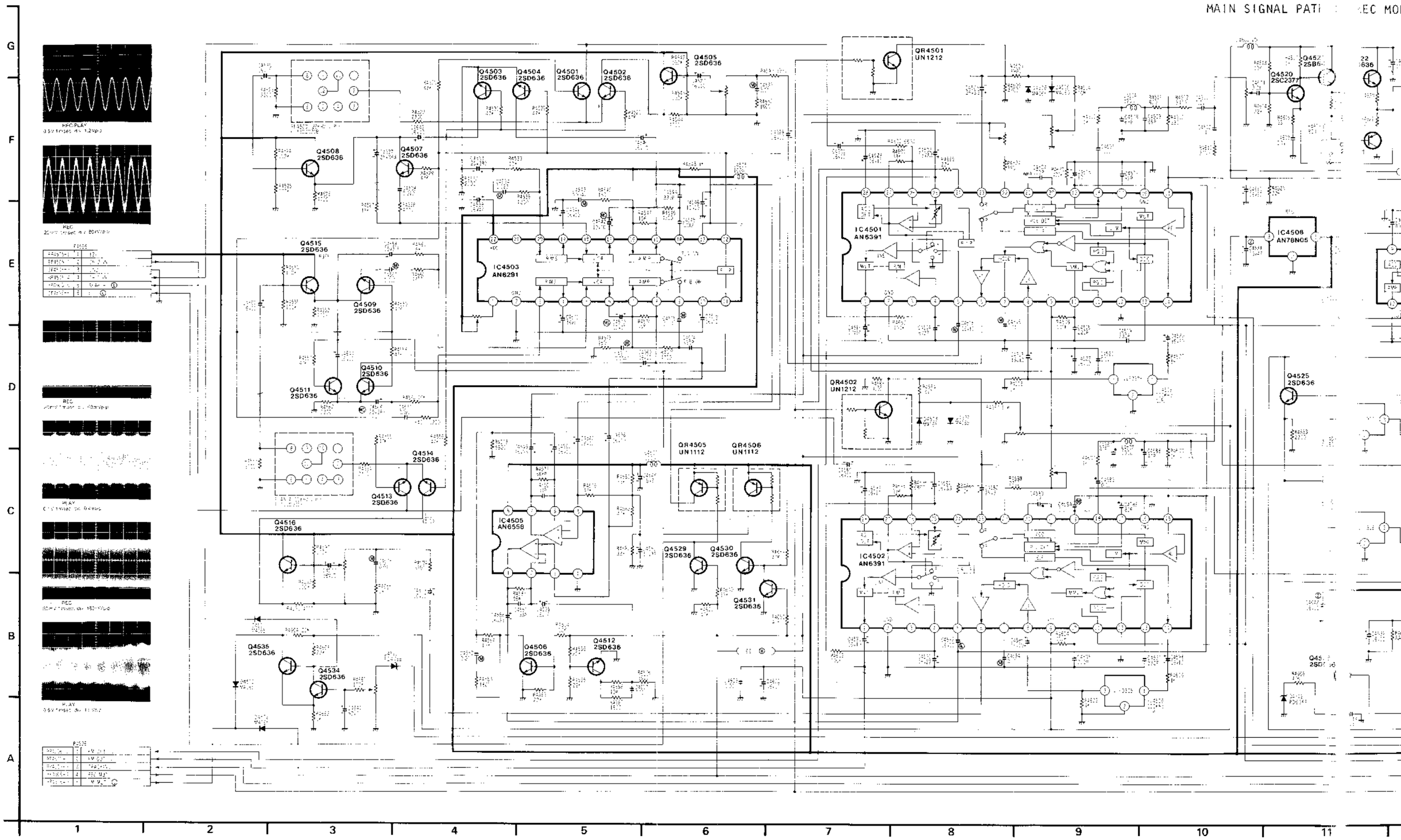
ICs & TRANSISTORs INFORMATION



Back Page:
FM AUDIO SUB Section

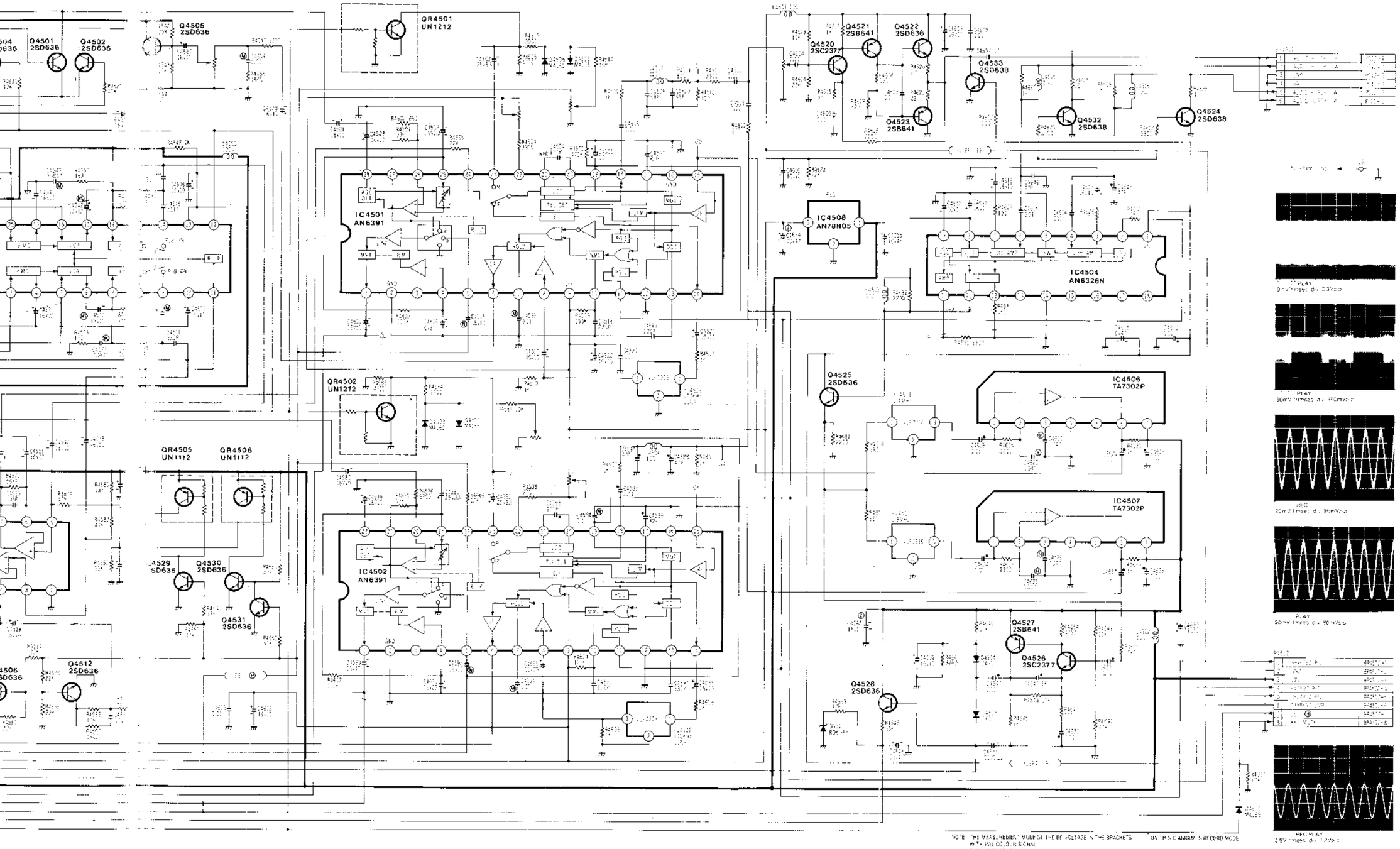
3—28

3-21. FM AUDIO MAIN SCHEMATIC DIAGRAM



MAIN SIGNAL PATH IN REC MODE.

MAIN SIGNAL PATH IN PLAYBACK MODE.



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH VIDEO IN SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOR SIGNAL.

FM AUDIO MAIN SCHEMATIC	
Transistor	
Q4501	F-5
Q4502	F-5
Q4503	F-4
Q4504	F-4
Q4505	F-6
Q4506	B-5
Q4507	F-4
Q4508	F-3
Q4509	E-3
Q4510	D-3
Q4511	D-3
Q4512	B-5
Q4513	C-4
Q4514	C-4
Q4515	E-3
Q4516	C-3
Q4520	F-11
Q4521	F-11
Q4522	F-11
Q4523	F-11
Q4524	F-13
Q4525	D-11
Q4526	B-12
Q4527	B-12
Q4528	B-11
Q4529	C-6
Q4530	C-6
Q4531	C-8
Q4532	F-12
Q4533	F-12
Q4534	B-3
Q4535	B-3
Transistor & Resistor	
QR4501	G-7
QR4502	D-7
QR4505	C-6
QR4506	C-6
Integrated Circuit	
IC4501	E-8
IC4502	C-8
IC4503	E-6
IC4504	E-12
IC4505	C-5
IC4506	D-13
IC4507	C-13
IC4508	E-11
Test Point	
TP4501	D-7
TP4502	F-8
TP4503	F-10
TP4504	F-10
TP4505	F-5
TP4506	B-7
TP4507	F-12
TP4508	F-12
TP4509	D-10
TP4510	D-10
TP4511	E-6
TP4520	D-11
TP4521	C-8
Adjustment	
R4503	F-8
R4516	F-9
R4541	F-6
R4568	B-3
R4572	E-4
R4586	D-8
R4593	B-3
R4597	C-9
R4612	F-12
Connector	
P4502	B-14
P4505	E-1
P4506	A-1
BP4501	F-14

ADDRESS INFORMATION

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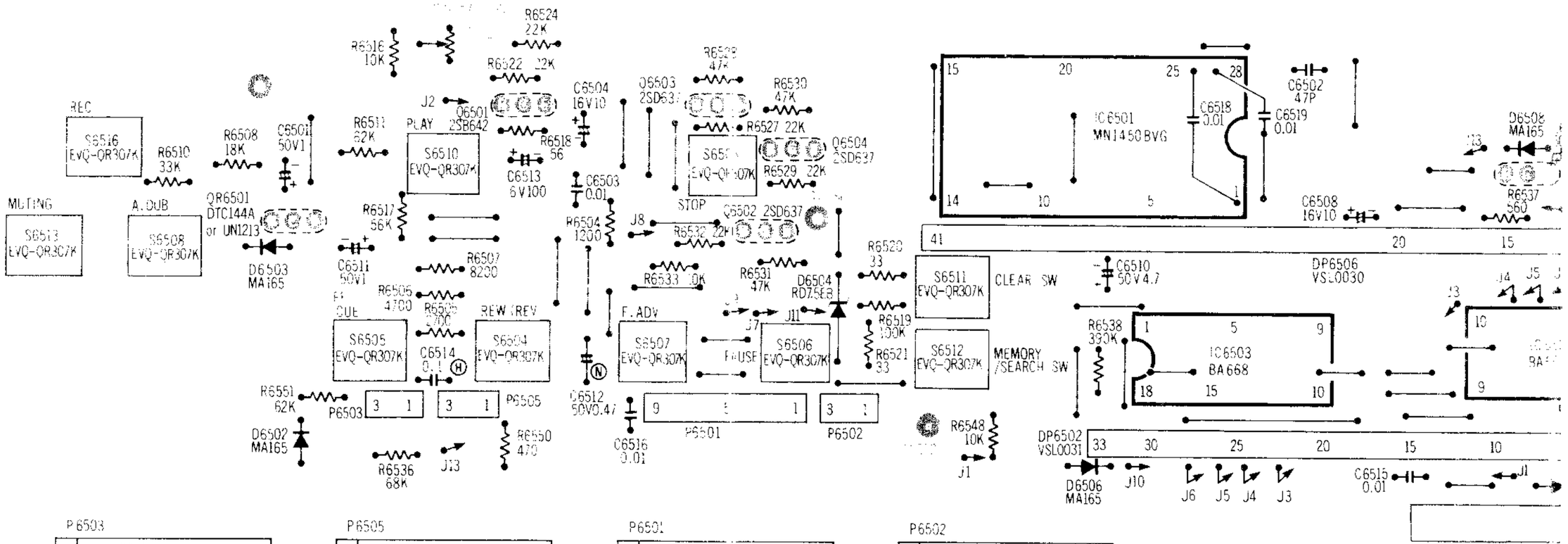
OPERATION Section

3-22. OPERATION CIRCUIT BOARD (VEP06212A)



P6503

1	GND
2	REC MUT
3	TRACK Ⓗ

P6505

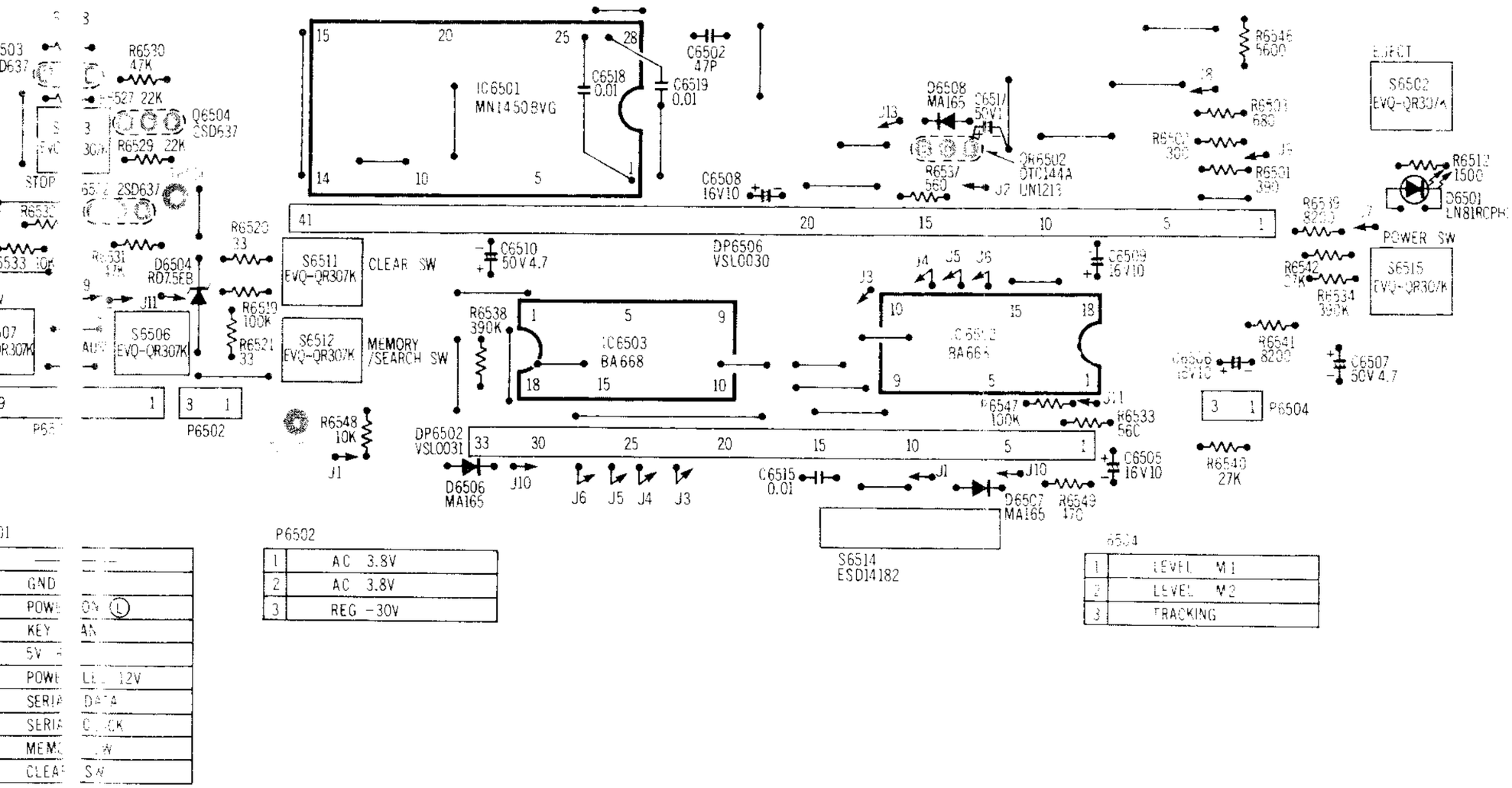
1	REG +15V
2	AC 3.8V
3	AC 3.8V

P6501

1	———
2	GND
3	POWER ON Ⓛ
4	KEY SCAN
5	5V REG
6	POWER LED 12V
7	SERIAL DATA
8	SERIAL CLOCK
9	MEMORY SW
10	CLEAR SW

P6502

1	AC 3.8V
2	AC 3.8V
3	REG -30V

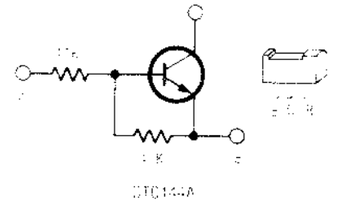


P6502

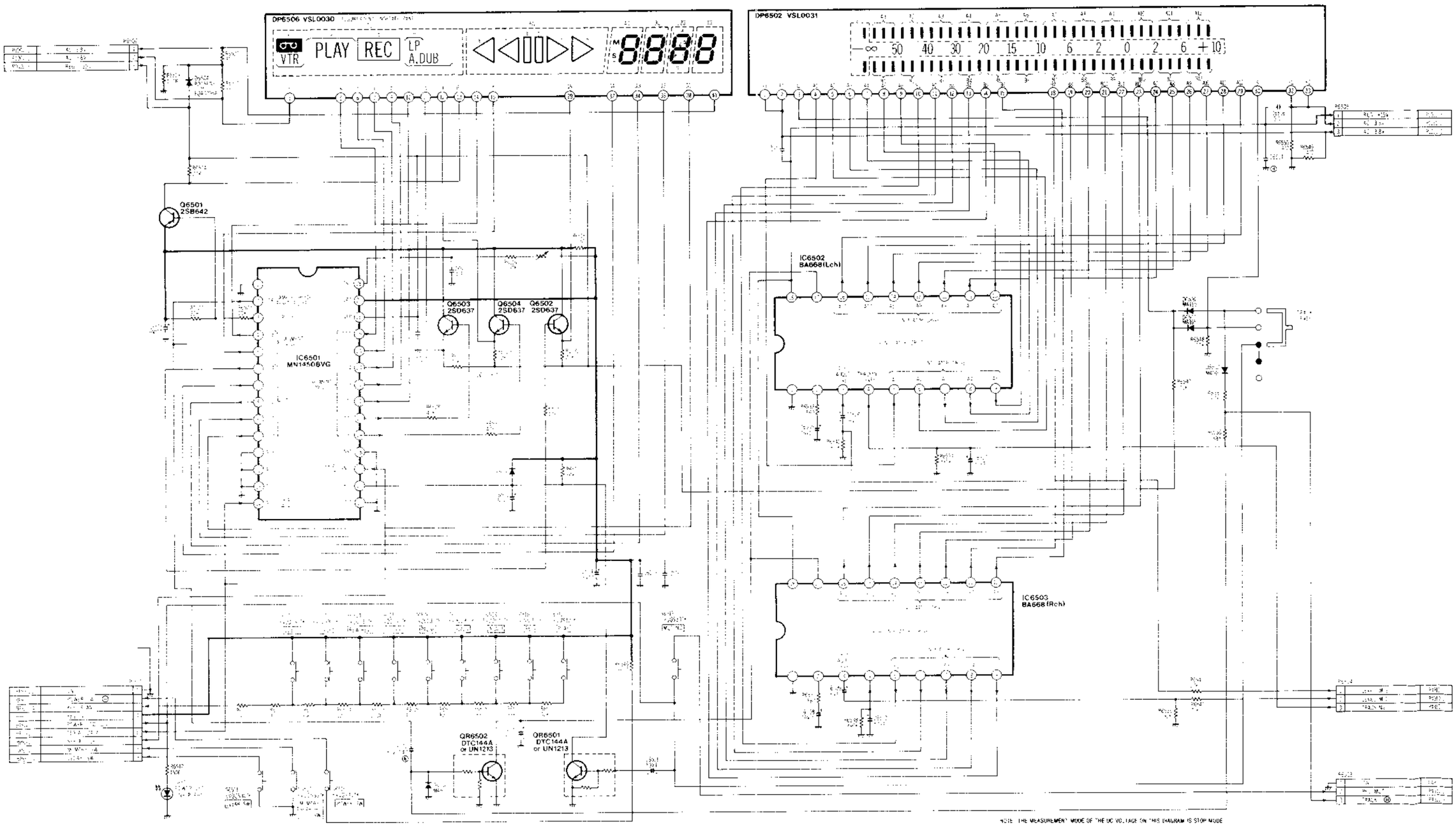
1	AC 3.8V
2	AC 3.8V
3	REG −30V

P6504

1	LEVEL M1
2	LEVEL M2
3	TRACKING

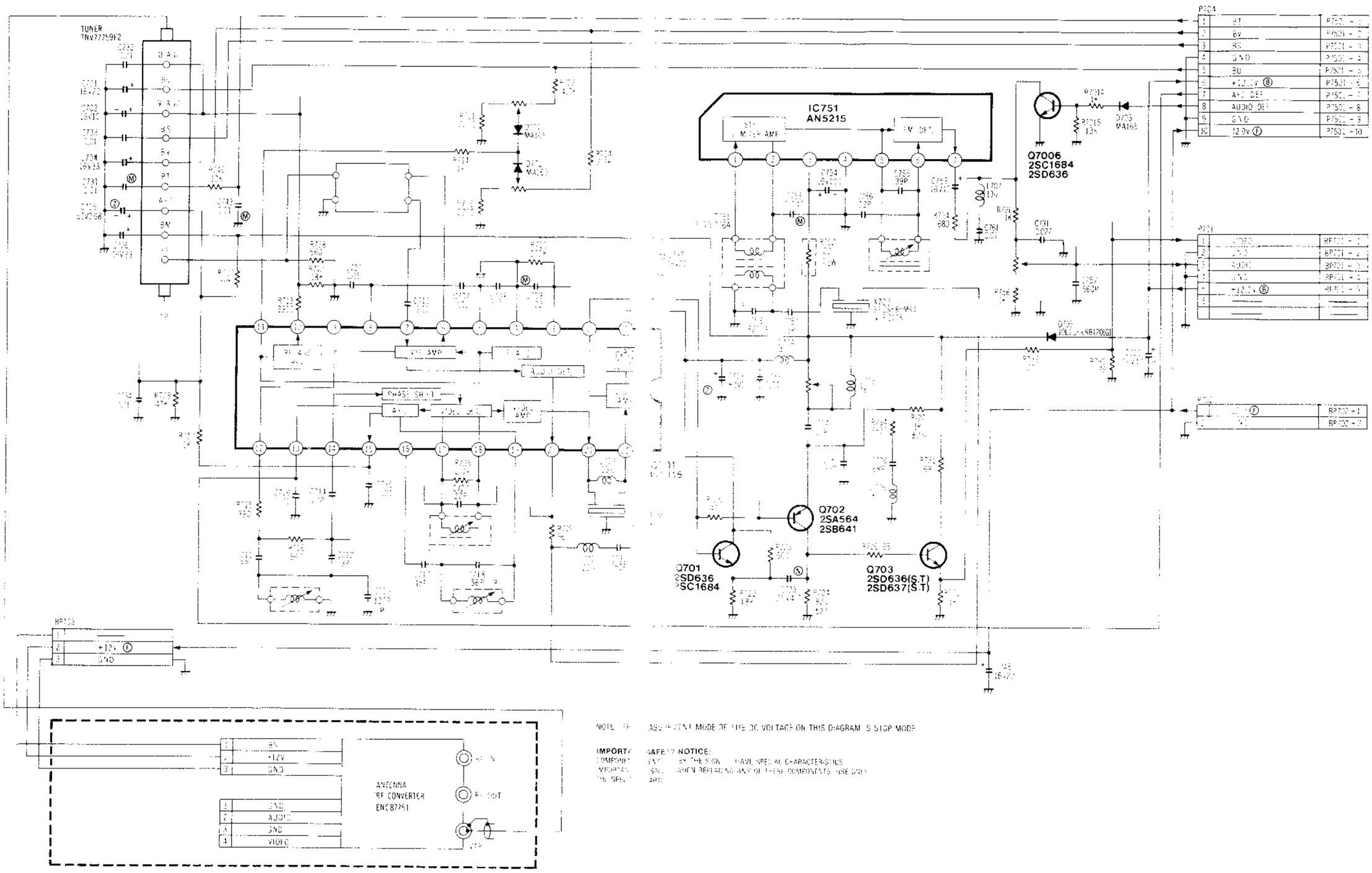


3-23. OPERATION SCHEMATIC DIAGRAM



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

3-24. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-850E)



NOTE: THE ABOVE PRESENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS MARKED WITH THE SYMBOL HAVE SPECIAL CHARACTERISTICS
WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY
THE SPECIFIED PARTS.

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OPERATION Section

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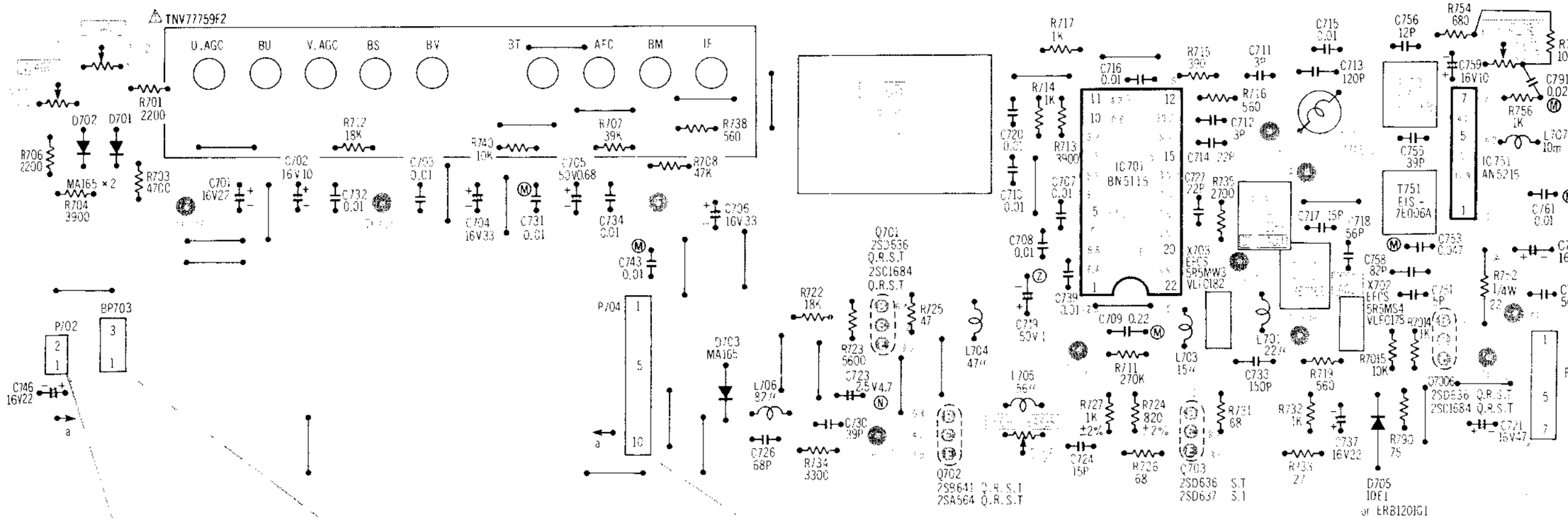
3-25. TV DEMODULATOR CIRCUIT BOARD (VEP07186G: NV-850E)



P702

1	120V Ⓕ
2	GND

BP703

1	——
2	+12V Ⓕ
3	GND

P704

1	BT
2	BV
3	BS
4	GND
5	BU
6	+12.0V Ⓑ
7	AFC DET
8	AUDIO DET
9	GND
10	12.7V

P701

1	VIDEO
2	GND
3	AUDIO
4	GND
5	+12.0V Ⓑ
6	——
7	——

ICs & TRANSISTORs INFORMATION

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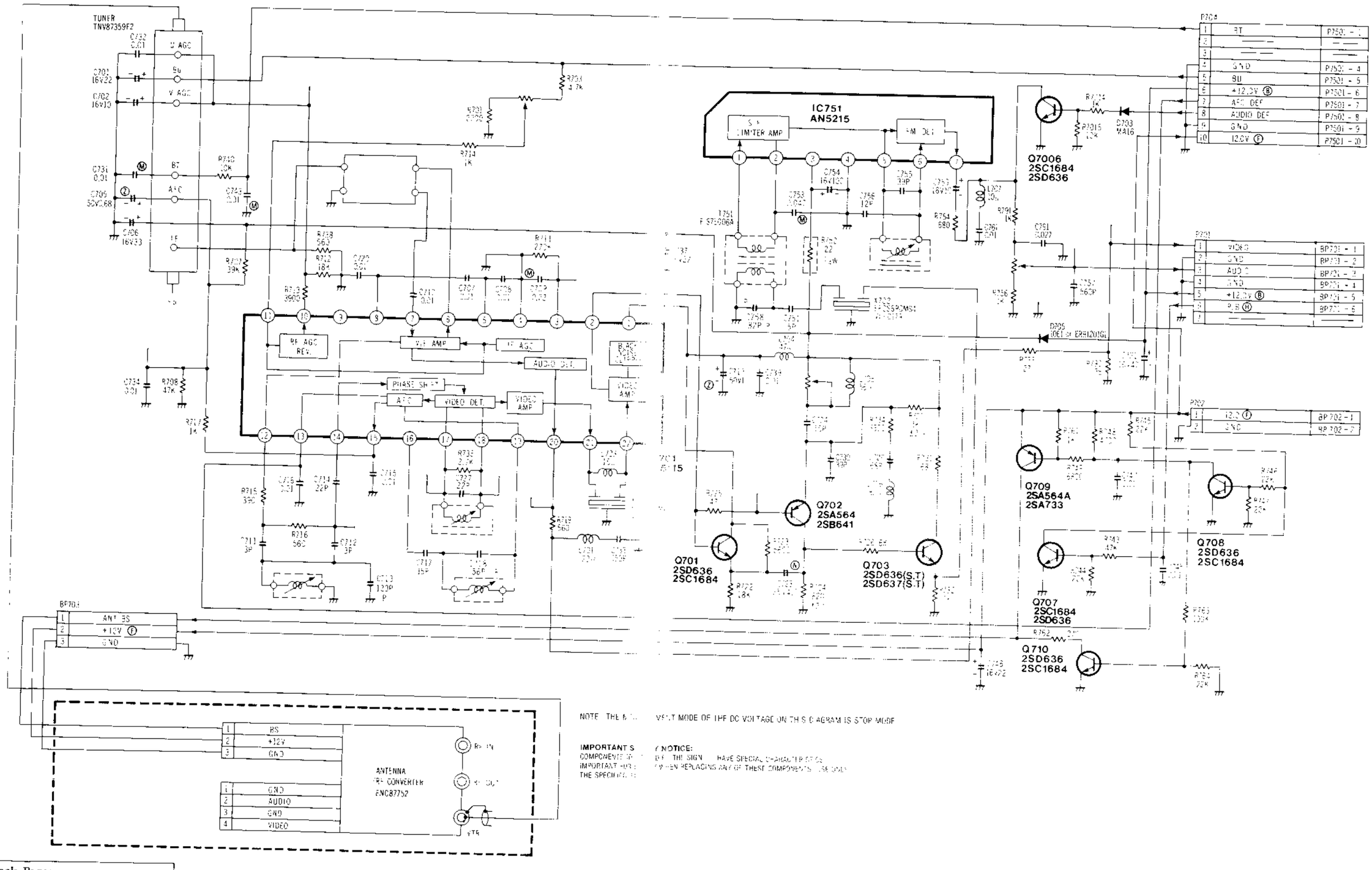
3-26. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-850B)



NOTE: THE [illegible] VOLT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

IMPORTANT S / NOTICE:
COMPONENT [illegible] THE SIGN [illegible] HAVE SPECIAL CHARACTERISTICS
IMPORTANT [illegible] WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY
THE SPECIFIED [illegible]

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TV DEMODULATOR Section

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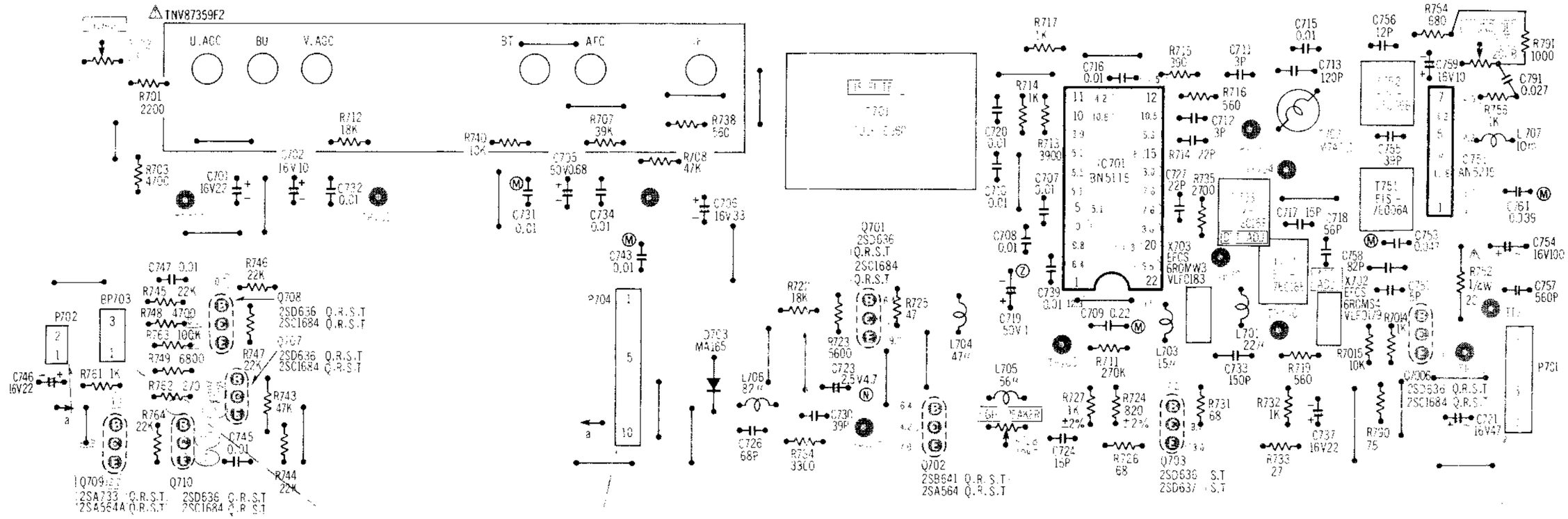
3-27. TV DEMODULATOR CIRCUIT BOARD (VEP07186H: NV-850B)



P702

1	120V Ⓕ
2	GND

BP703

1	ANT BS
2	+12V Ⓕ
3	GND

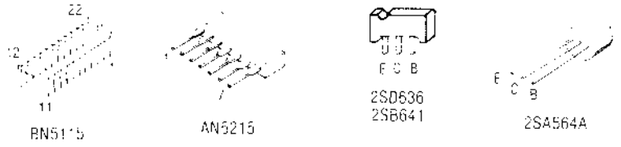
P704

1	BT
2	——
3	——
4	GND
5	BU
6	+12.0V Ⓑ
7	AFC DET
8	AUDIO DET
9	GND
10	12.7V

P701

1	VIDEO
2	GND
3	AJD Ⓐ
4	GND
5	+12.0V Ⓑ
6	P.B Ⓗ
7	ANT BS

ICs & TRANSISTORs INFORMATION



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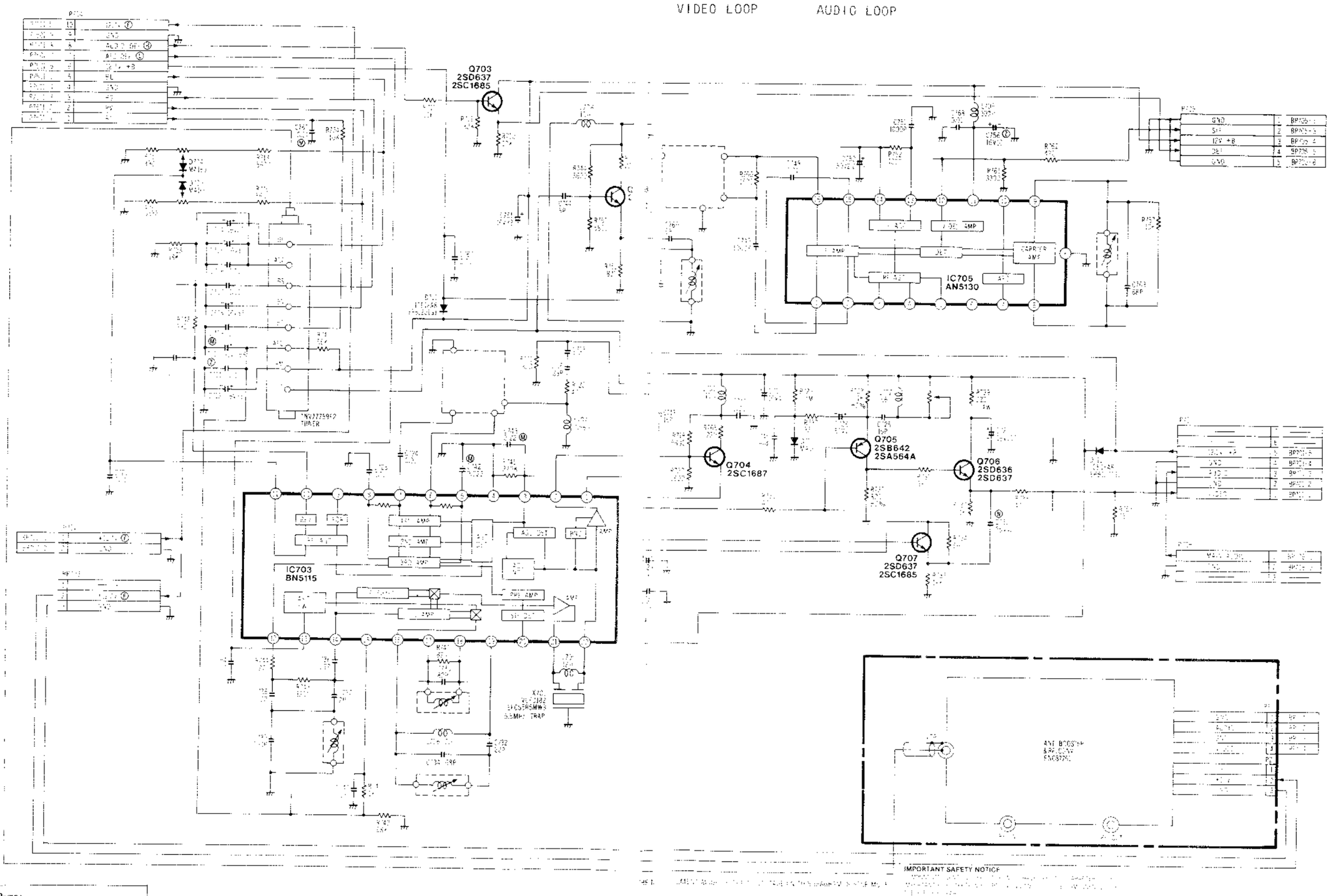
3-28. TV DEMODULATOR SCHEMATIC DIAGRAM (NV-850EG)



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TV DEMODULATOR Section

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3-29. TV DEMODULATOR CIRCUIT BOARD (VEP07193A: NV-850EG)

P702

1	+12.7V Ⓕ
2	GND

BP703

1	BS
2	+12V Ⓕ
3	GND

P704

1	BT
2	BV
3	BS
4	GND
5	BU
6	12.7V + B
7	AFC DEF
8	AUDIO DEF
9	GND
10	12.7V Ⓕ

P705

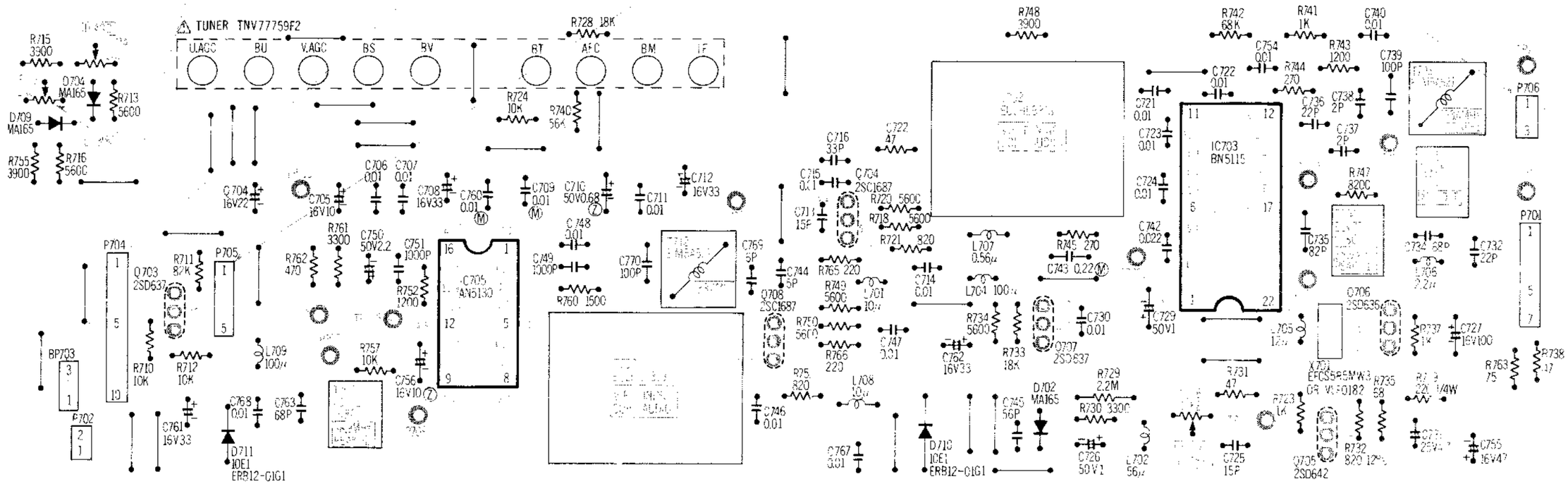
1	GND
2	SIF
3	12V + B
4	DEF
5	GND

P706

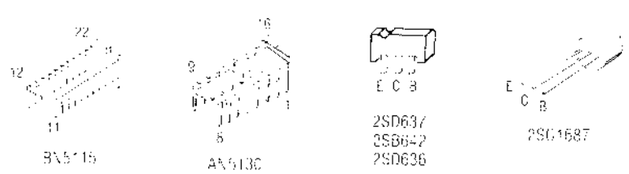
1	MAIN AUDIO
2	GND
3	———

P701

1	VIDEO
2	GND
3	AUDIO
4	GND
5	12.7V + B
6	———
7	———



ICs & TRANSISTORs INFORMATION



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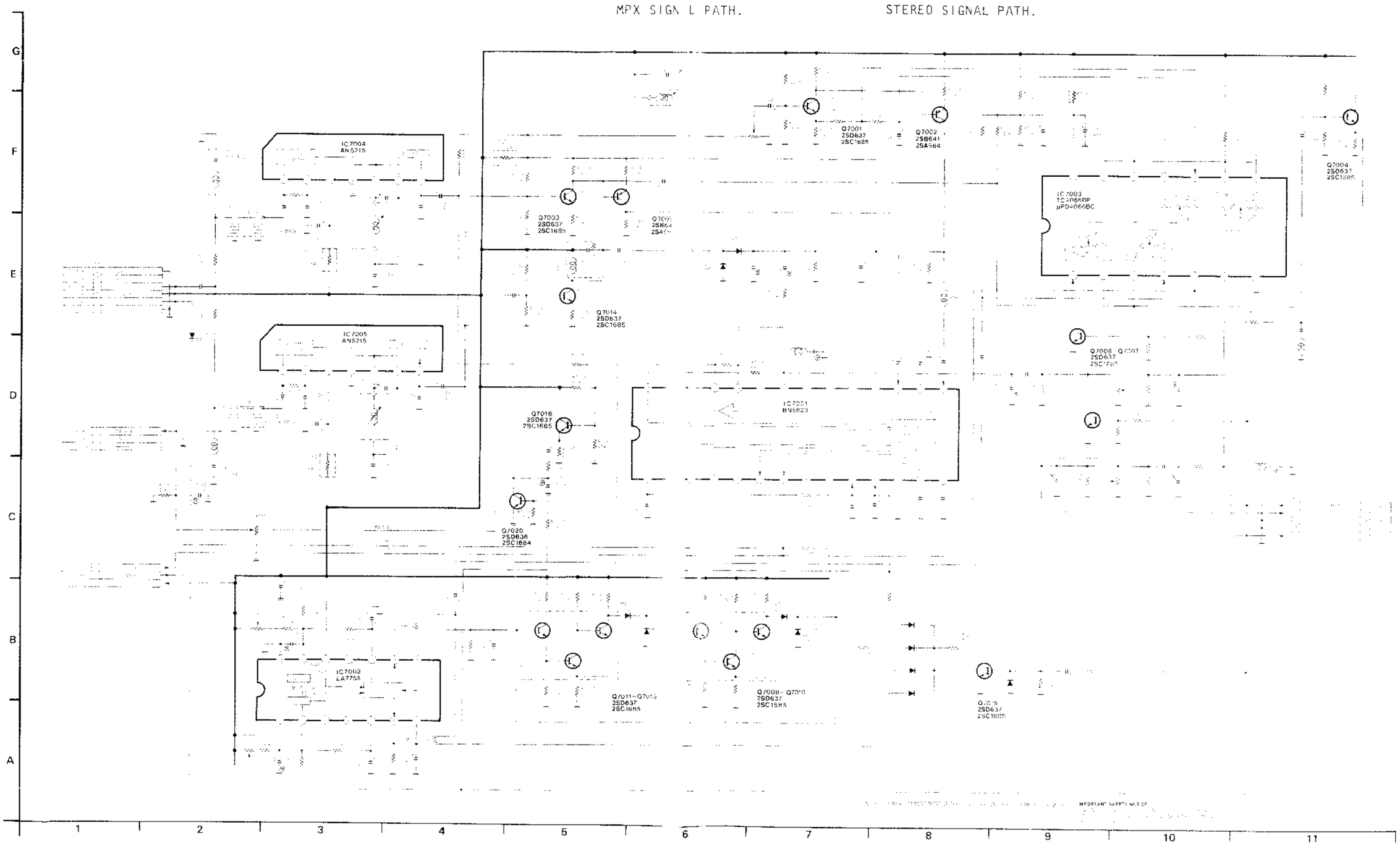
3-30. DECODER SCHEMATIC DIAGRAM (NV-850EG)



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TV DEMODULATOR Section

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3-31. DECODER CIRCUIT BOARD (VEP07194A: NV-850EG)

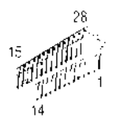
DECODER SCHEMATIC	
Transistor	
Q7001	F-7
Q7002	F-8
Q7003	F-5
Q7004	F-11
Q7005	F-6
Q7006	D-9
Q7007	D-9
Q7008	B-6
Q7009	B-6
Q7010	B-7
Q7011	B-5
Q7012	B-5
Q7013	B-5
Q7014	E-5
Q7015	B-8
Q7016	D-5
Q7020	C-5
Integrated Circuit	
IC7001	D-7
IC7002	B-3
IC7003	F-10
IC7004	F-3
IC7005	D-3
Test Point	
TP7002	D-2
TP7003	B-3
TP7004	A-5
TP7005	E-7
TP7006	B-4
TP7007	C-11
TP7008	D-10
TP7009	D-9
TP7011	D-4
TP7012	E-4
TP7013	F-5
Adjustment	
R7001	F-7
R7026	B-2
R7028	A-2
R7040	C-9
R7044	D-9
R7076	C-2
T7001	G-6
T7002	F-3
T7003	D-3
Connector	
BP705	E-1
BP706	D-1
P7006	C-1
P7007	C-11

ADDRESS INFORMATION

DECODER CIRCUIT BOARD	
Transistor	
Q7001	B-4
Q7002	A-4
Q7003	B-3
Q7004	B-4
Q7005	B-2
Q7006	A-4
Q7007	A-4
Q7008	A-6
Q7009	A-6
Q7010	B-6
Q7011	B-6
Q7012	B-6
Q7013	B-6
Q7014	B-2
Q7015	A-6
Q7016	B-3
Q7020	A-3
Integrated Circuit	
IC7001	B-2
IC7002	A-5
IC7003	B-3
IC7004	B-4
IC7005	B-5
Test Point	
TP7002	B-2
TP7003	A-5
TP7004	A-5
TP7005	A-2
TP7006	A-5
TP7007	A-2
TP7008	A-4
TP7009	A-4
TP7011	B-3
TP7012	B-5
TP7013	B-4
Adjustment	
R7001	B-4
R7026	A-5
R7028	A-5
R7040	A-4
R7044	A-4
R7076	B-2
T7001	B-2
T7002	B-4
T7003	B-5

ADDRESS INFORMATION

ICs & TRANSISTORs INFORMATION

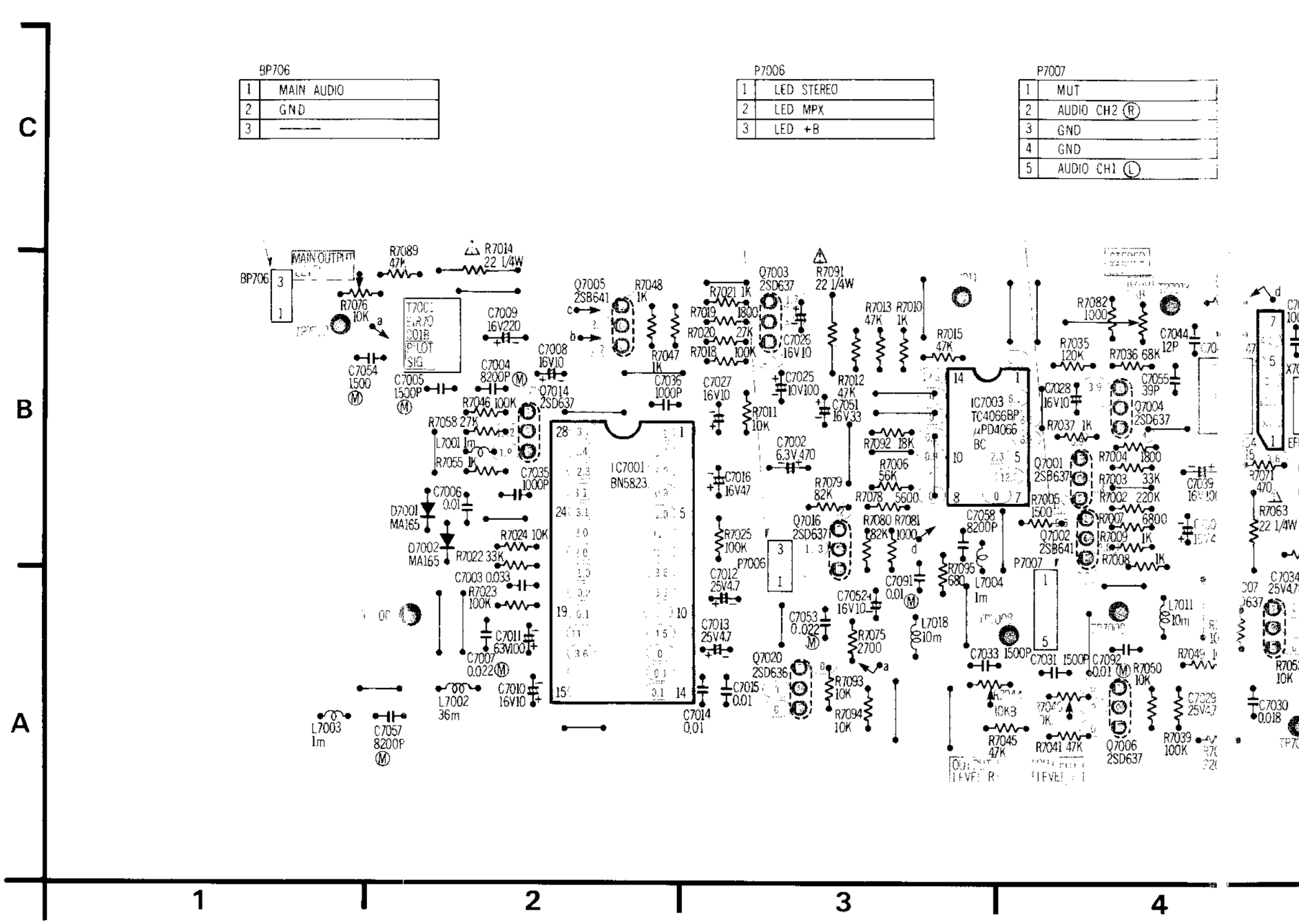


BN5823

LA7755
TC4066BP

AN5215

2SD637
2SB641
2SD636

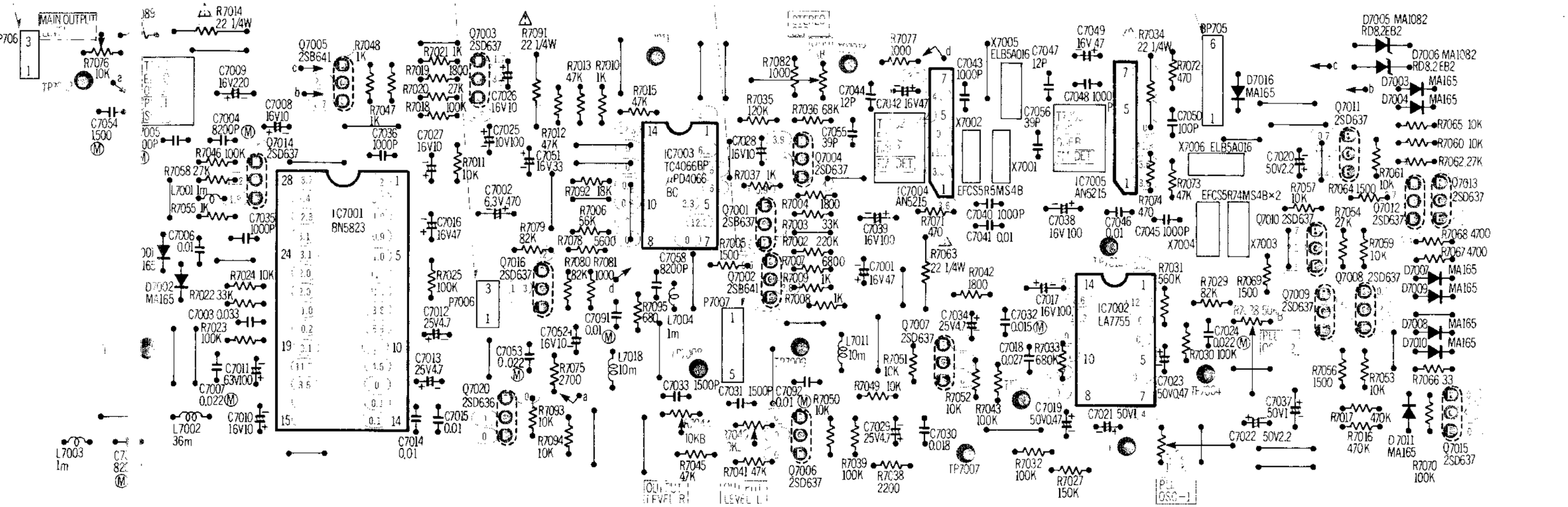


BP706	
1	MAIN AUDIO
2	GND
3	———

P7006	
1	LED STEREO
2	LED MPX
3	LED +B

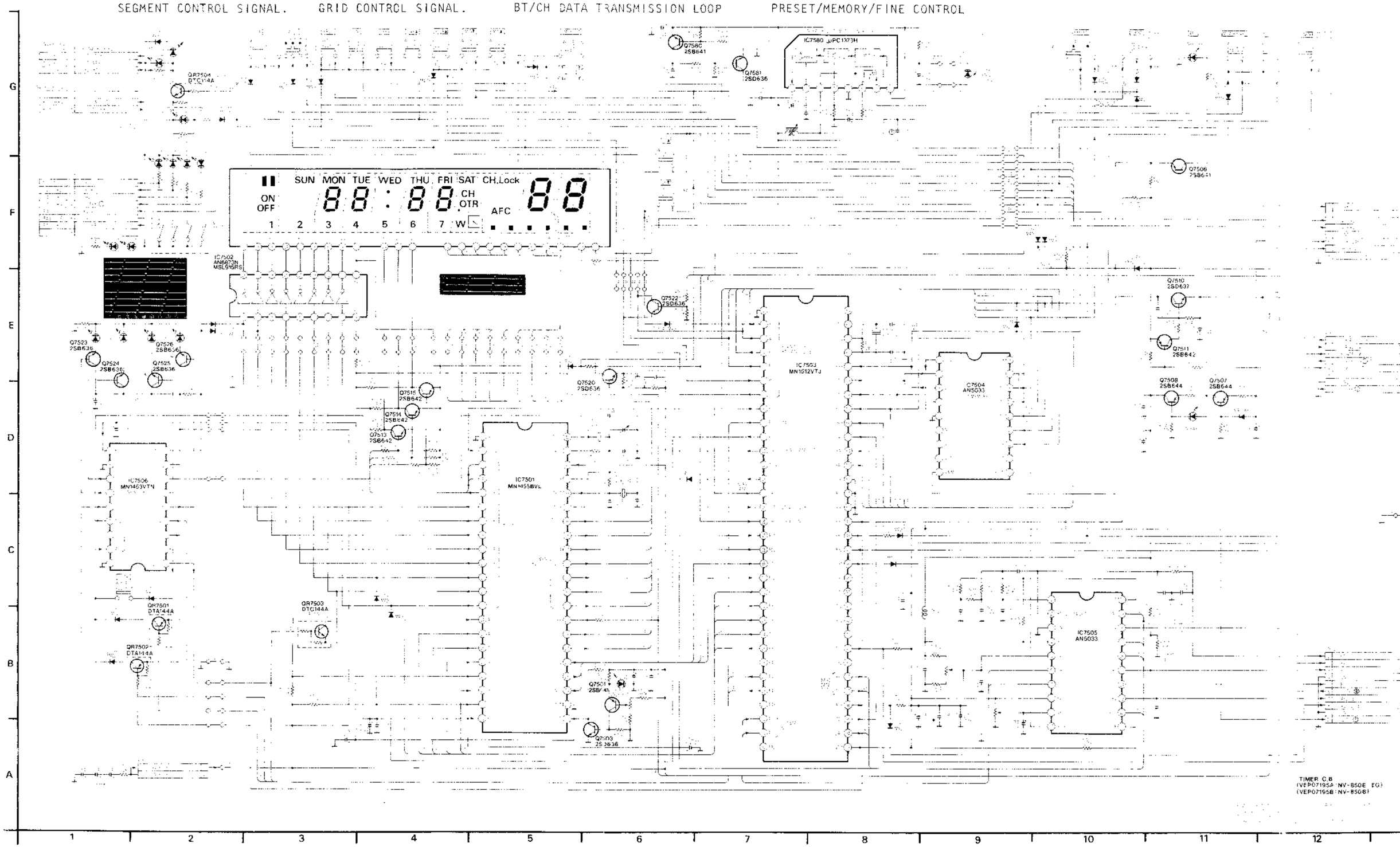
P7007	
1	MUT
2	AUDIO CH2 (R)
3	GND
4	GND
5	AUDIO CH1 (L)

BP705	
1	GND
2	———
3	SIF
4	12V+B
5	DEF
6	GND

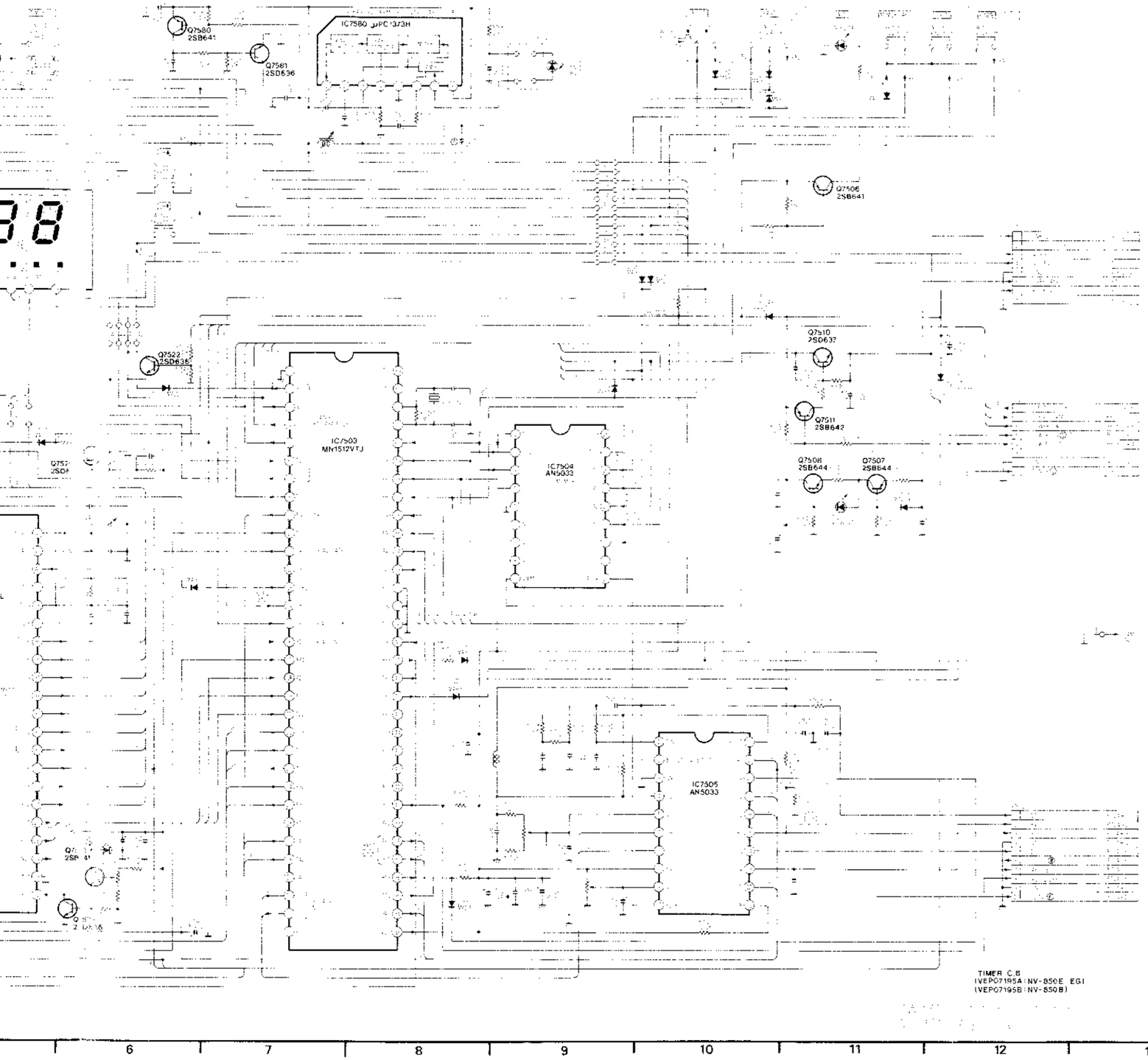


Next Page:
TIMER & TIMER OPERATION Section

3-32. TIMER & TIMER OPERATION SCHEMATIC DIAGRAM



CH DATA : SMISSION LOOP PRESET/MEMORY/FINE CONTROL

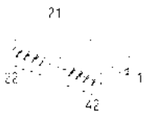


6 7 8 9 10 11 12 13

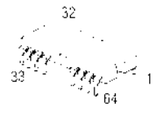
TIMER & TIMER OPERATION SCHEMATIC	
Transistor	
Q7501	B-6
Q7503	B-6
Q7506	F-[illegible]
Q7507	D-[illegible]
Q7508	D-[illegible]
Q7510	F-[illegible]
Q7511	E-[illegible]
Q7513	D-4
Q7514	D-4
Q7515	D-4
Q7520	E-6
Q7522	E-6
Q7523	E-1
Q7524	D-1
Q7525	D-2
Q7526	E-2
Q7580	G-6
Q7581	G-7
Transistor & Resistor	
QR7501	B-2
QR7502	B-2
QR7503	B-3
QR7504	G-2 (E/EG)
Integrated Circuit	
IC7501	C-5
IC7502	E-3
IC7503	D-7
IC7504	D-9
IC7505	B-10
IC7506	C-2
IC7580	G-8
Test Point	
TP7501	C-6
TP7503	A-9
TP7504	A-3
TP7505	A-9
TP7506	B-9
TP7507	D-2
TP7581	G-9
Adjustment	
R7509	B-6
R7533	B-9
R7535	B-9
C7502	D-6
T7580	G-7
Connector	
P7501	B-12
P7503	E-12
P7504	F-1
P7505	A-2
P7506	G-1
BP7502	F-12

ADRESS NFORMATION

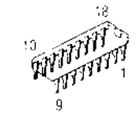
ICs & TRANSISTORs INFORMATION



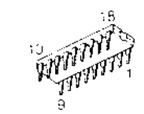
MN1455BVL



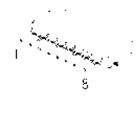
MN1512VTJ



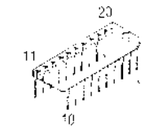
MN1228



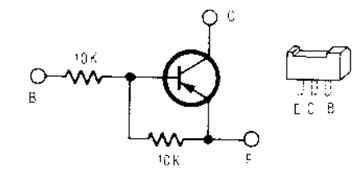
AN6873N
MN1453VTN



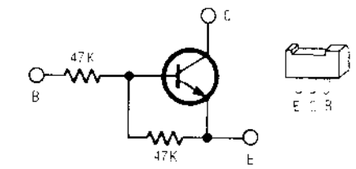
μPC1373H



AN5033

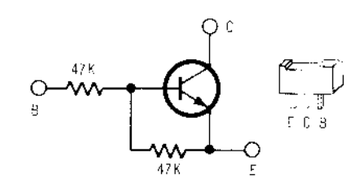


DTC114A



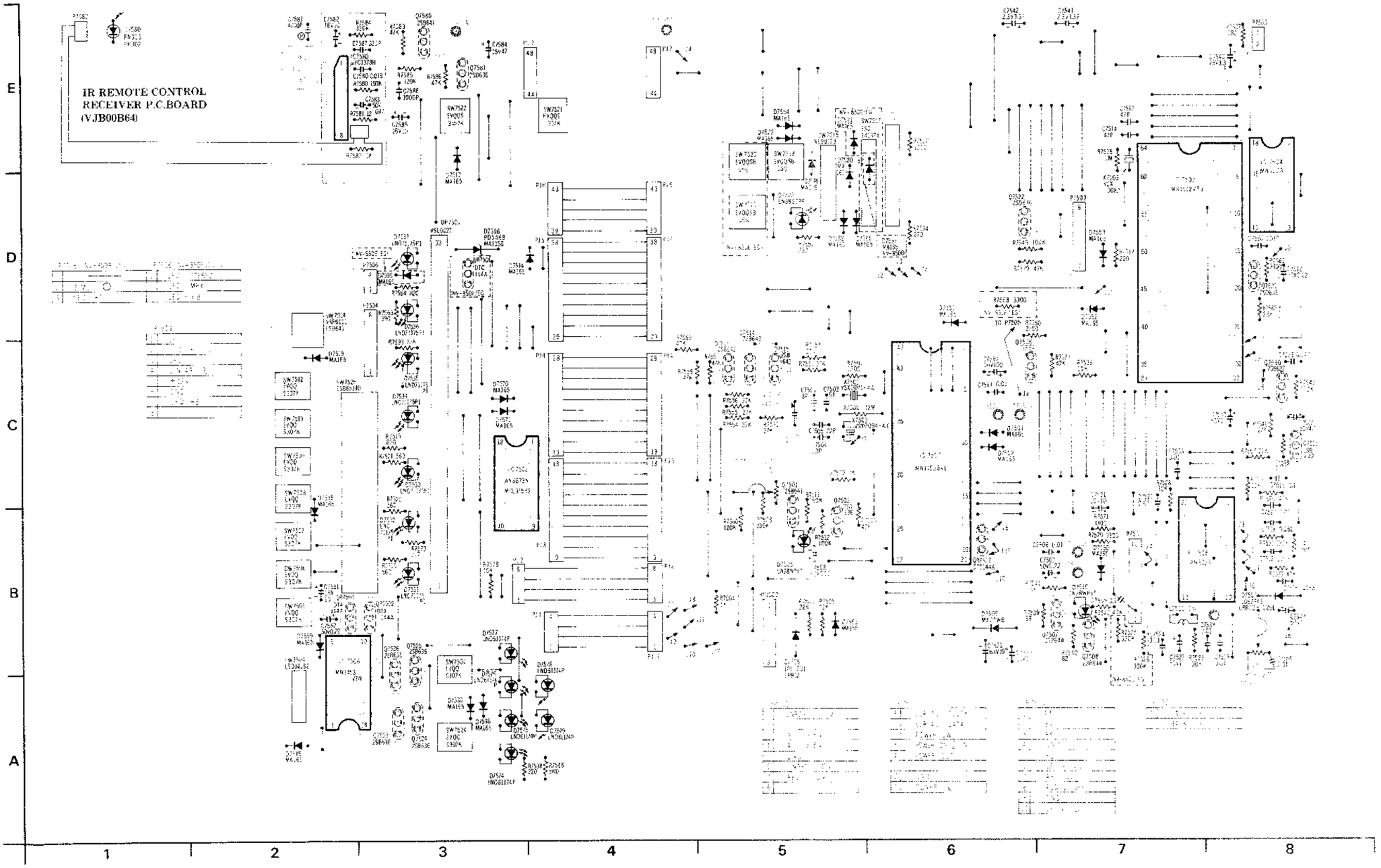
DTA144A

2SB641
2SD636
2SB644
2SD637
2SB642



DTC144A

3-33. TIMER & TIMER OPERATION CIRCUIT BOARD
(VEP07195A, VEP07196A: NV-850E/EG/VEP07195B, VEP07196B: NV-850B)



TIMER & TIMER OPERATION CIRCUIT BOARD

Transistor

Q7501	B-5
Q7503	B-5
Q7506	C-6
Q7507	B-7
Q7508	B-7
Q7510	C-8
Q7511	C-8
Q7512	C-5
Q7514	C-7
Q7515	C-6
Q7520	D-8
Q7522	D-6
Q7523	A-5
Q7524	A-5
Q7525	A-5
Q7526	A-5
Q7527	B-6
Q7551	F-5

Transistor & Resistor

QR7501	B-5
QR7502	B-5
QR7503	B-6
QR7504	D-5

Integrated Circuit

IC7501	C-6
IC7502	C-7
IC7503	C-7
IC7504	D-6
IC7505	B-7
IC7506	A-5
IC7507	B-5

Test Point

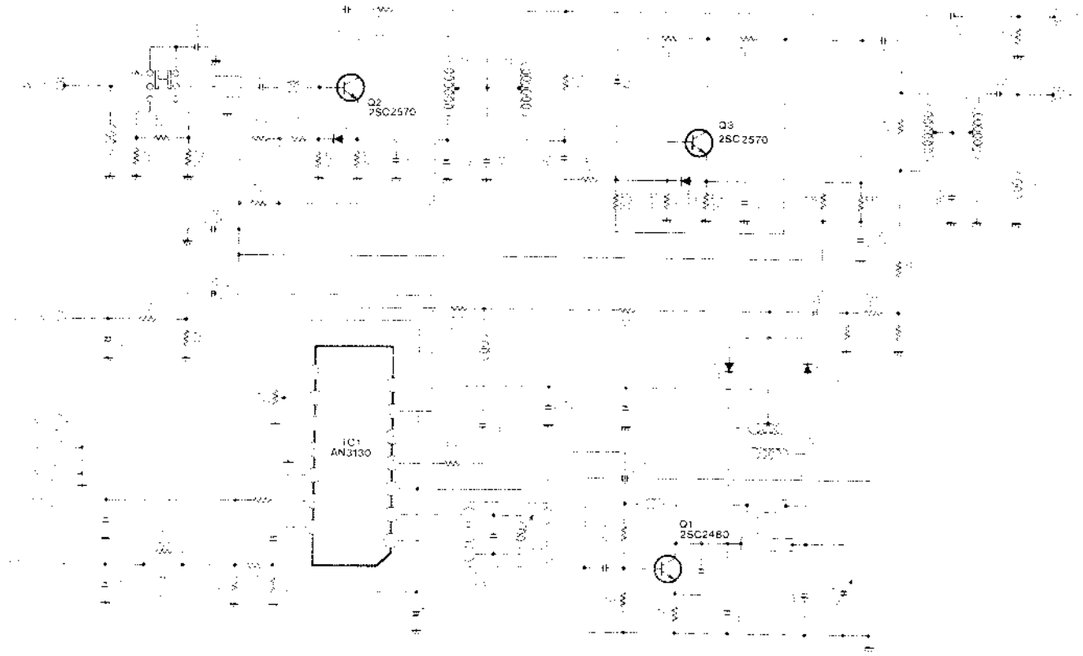
TP7501	C-6
TP7502	B-7
TP7503	C-5
TP7504	A-5
TP7505	B-6
TP7506	F-5
TP7507	F-7

Adjustment

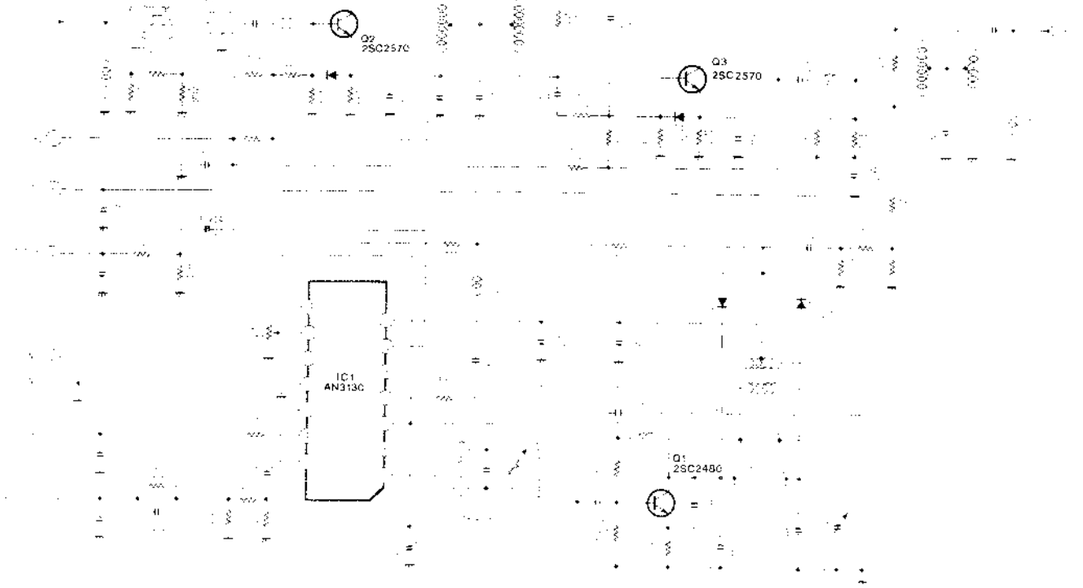
VR7501	F-5
VR7502	B-6
VR7503	B-5
VR7504	C-6
VR7505	B-5

3—41

3-34. RF CONVERTER SCHEMATIC DIAGRAM
— UNIT No. ENC87751 —

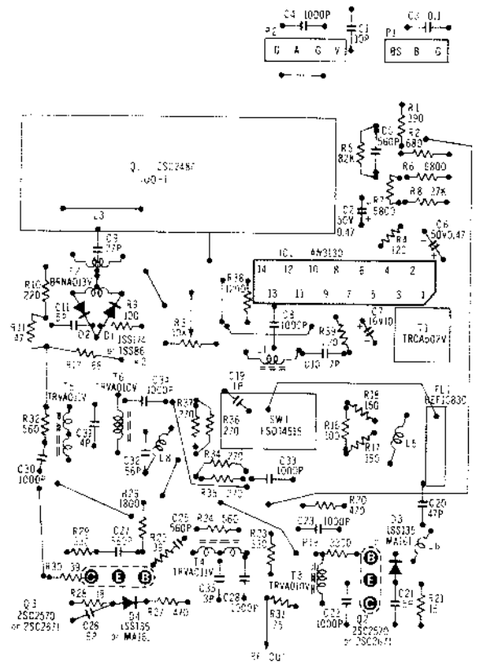


— UNIT No. ENC87752 —

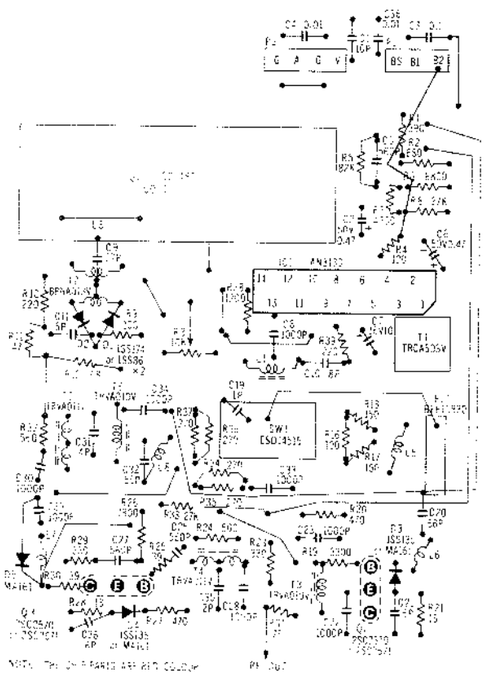


Back Page:
TIMER & TIMER OPERATION Section

3-35. RF CONVERTER CIRCUIT BOARD
— UNIT No. ENC87751 —



— UNIT No. ENC87752 —



SERVO CIRCUIT BOARD

Transistor	
Q2001	G-11
Q2002	F-12
Q2003	F-12
Q2004	F-9
Q2005	E-9
Q2006	F-9

Transistor & Resistor	
QR2001	G-12
QR2002	G-10
QR2003	F-12
QR2004	G-11
QR2005	F-11
QR2006	G-10
QR2007	G-10
QR2008	G-10
QR2009	F-9
QR2010	F-9

Integrated Circuit	
IC2001	G-7
IC2002	G-10
IC2003	G-6
IC2004	G-12
IC2005	F-11
IC2007	F-9
IC2008	G-10
IC2009	G-9
IC2010	F-10

Test Point	
TP2001	G-7
TP2002	G-10
TP2003	G-11
TP2004	G-11
TP2005	G-7
TP2007	G-11
TP2009	F-10
TP2011	G-11
TP2012	F-6
TP2013	F-6
TP GND	F-6

Adjustment	
R2010	D-6
R2012	G-7
R2013	D-6
R2056	F-7
R2057	E-6
R2072	G-7
R2084	F-7

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE CIRCUIT BOARD

Transistor	
Q3001	B-12
Q3002	B-12
Q3004	C-12
Q3005	C-12
Q3006	C-12
Q5001	C-11
Q5003	C-10
Q5004	C-10
Q5006	C-12
Q5007	D-12
Q5008	D-12
Q5009	D-12

Transistor & Resistor	
QR3001	C-12
QR3002	C-12
QR3003	C-11
QR3050	D-11
QR5002	C-10
QR5003	B-12
QR5004	D-10

Integrated Circuit	
IC3001	B-13
IC3050	B-9
IC5001	B-11
IC5002	B-10

Test Point	
TP3001	B-12
TP3002	C-12
TP3003	C-12
TP3004	D-12
TP5002	C-11
TP5003	D-11
TP5004	D-12
TP GND	C-13

Adjustment	
R3076	D-8
R3056	B-9
R5009	B-10

ADDRESS INFORMATION

POWER SUPPLY CIRCUIT BOARD

Transistor	
Q1001	E-13
Q1002	D-15
Q1003	E-12
Q1101	D-15
Q1102	E-12
Q1103	E-16
Q1201	D-13
Q1501	E-15

Test Point	
TP1001	E-12
TP1002	E-12

Adjustment	
R1002	E-12

ADDRESS INFORMATION

3-36. MAIN CIRCUIT BOARD Power Supply, Servo, Luminance (1), Audio, System Control & Chrominance (VEP03197A: NV-850EG/VEP03197B: NV-850B/VEP03 C: N

AUDIO CIRCUIT BOARD

Transistor	
Q4001	F-7
Q4002	F-7
Q4101	F-6
Q4102	F-6
Q4105	D-7
Q4106	F-7
Q4107	G-7

Transistor & Resistor	
QR4103	E-6
QR4104	F-6

Integrated Circuit	
IC4001	G-6
IC4002	G-7
IC4101	E-6

Test Point	
TP4001	G-6
TP4002	G-7
TP4003	G-7

Adjustment	
R4006	G-6
R4018	F-7
R4112	E-6

ADDRESS INFORMATION

SYSTEM CONTROL CIRCUIT BOARD

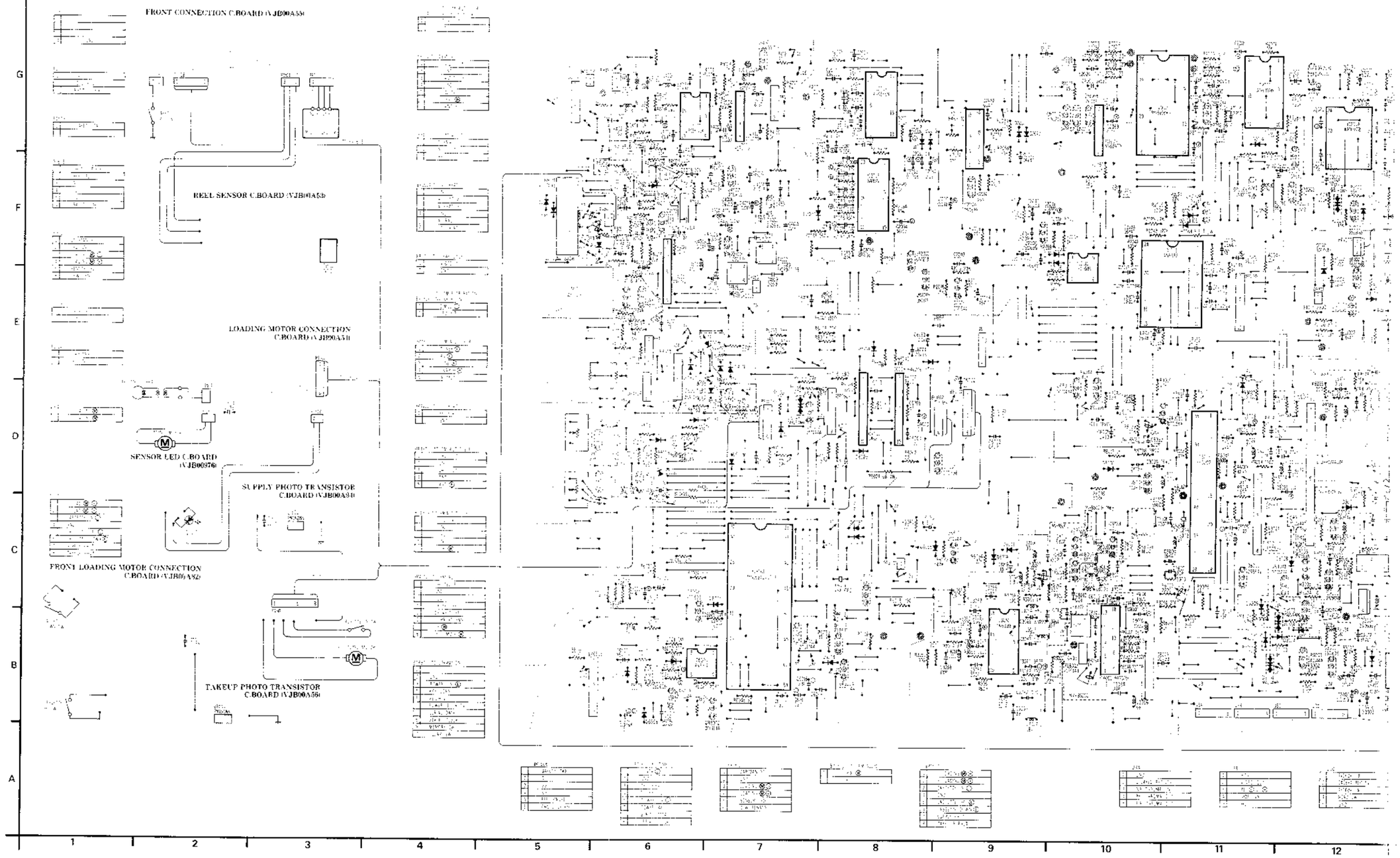
Transistor	
Q1502	C-3
Q6001	D-9
Q6002	C-6
Q6003	D-6
Q6005	D-6
Q6006	D-6
Q6007	D-6
Q6008	C-8
Q6009	D-6
Q6012	B-6
Q6552	B-2

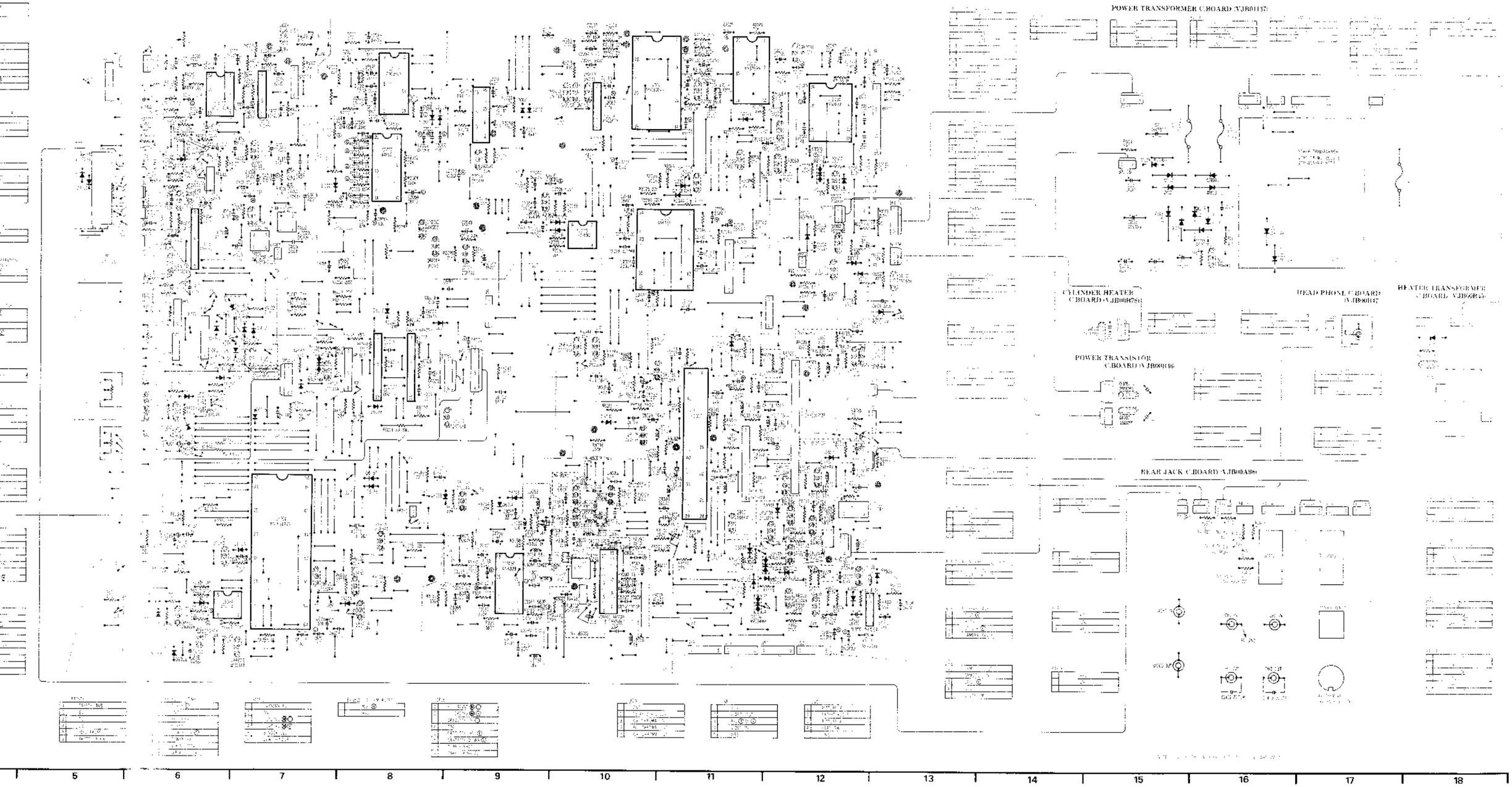
Transistor & Resistor	
QR6001	B-7
QR6002	B-7
QR6003	B-6
QR6004	B-6
QR6005	D-6
QR6006	D-6
QR6008	D-6
QR6012	D-7
QR6013	B-9

Integrated Circuit	
IC6001	C-7
IC6002	D-8
IC6003	D-8
IC6004	B-6

Test Point	
TP6001	B-6
TP6002	B-6

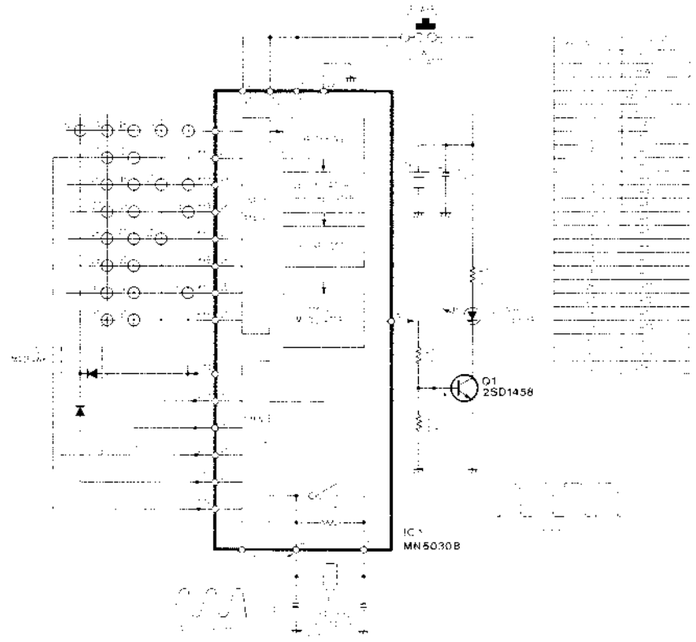
ADDRESS INFORMATION



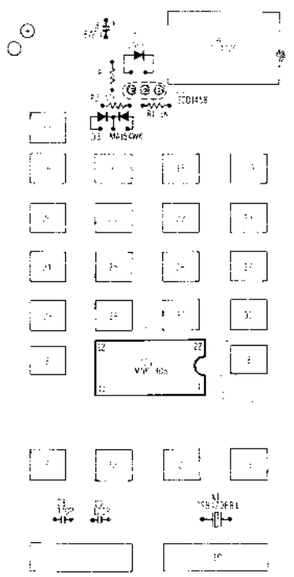


Next Page:
REMOTE CONTROLLER &
CIRCUIT BOARD LAYOUT Section

3-37. REMOTE CONTROLLER SCHEMATIC DIAGRAM AND CIRCUIT BOARD

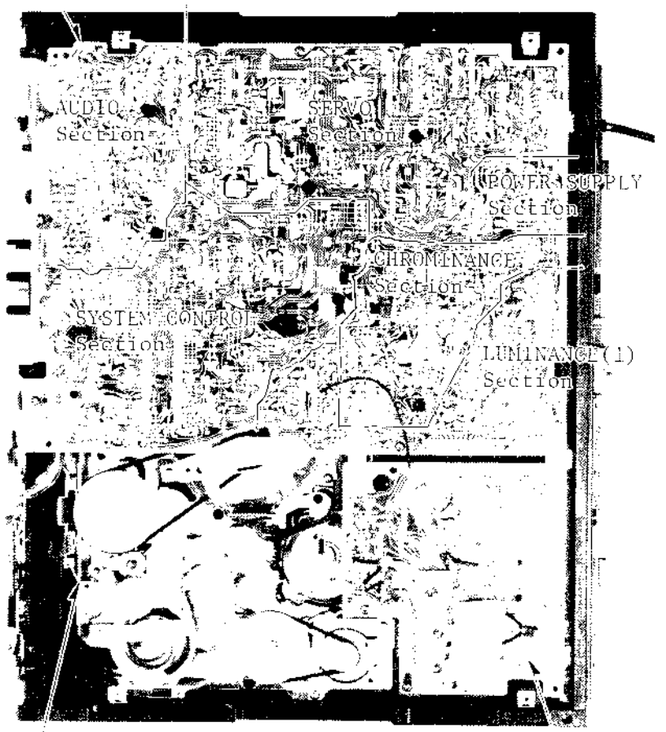


— CIRCUIT BOARD No. VJB00C08 —



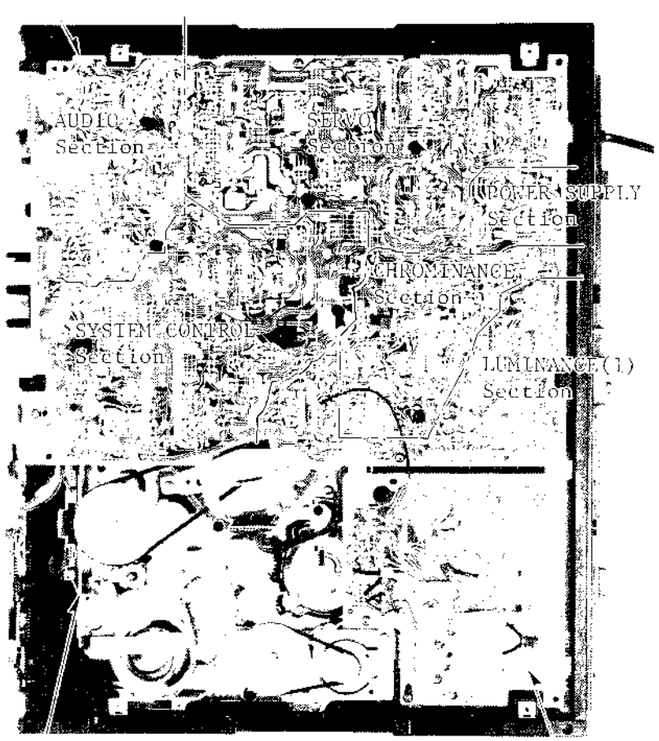
3-38. CIRCUIT BOARD LAYOUT

BOTTOM VIEW



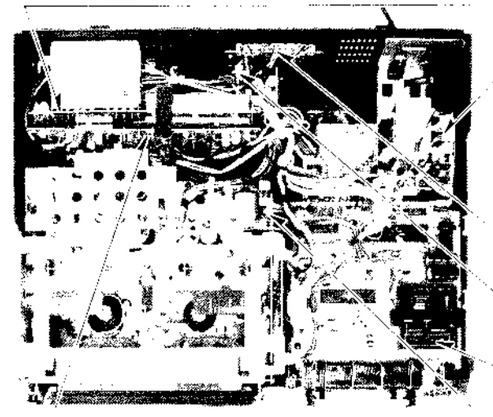
3-38. CIRCUIT BOARD LAYOUT

BOTTOM VIEW

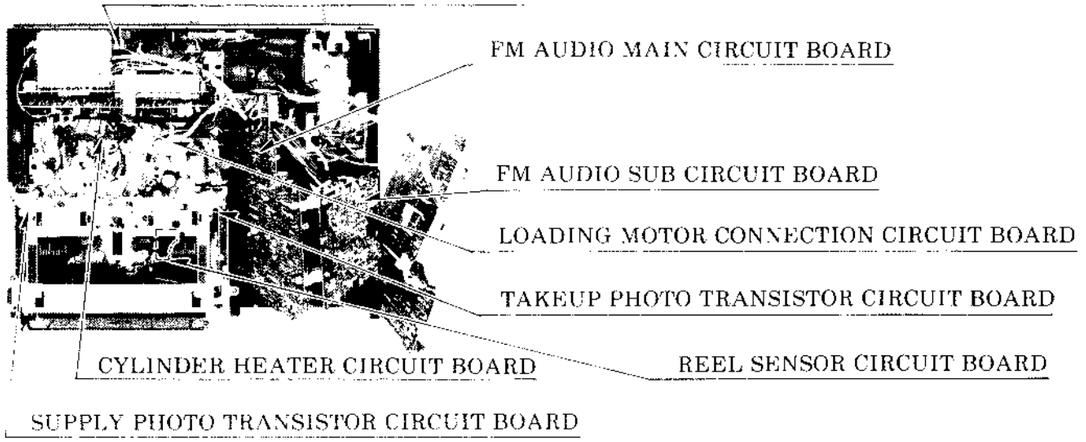


FRONT VIEW

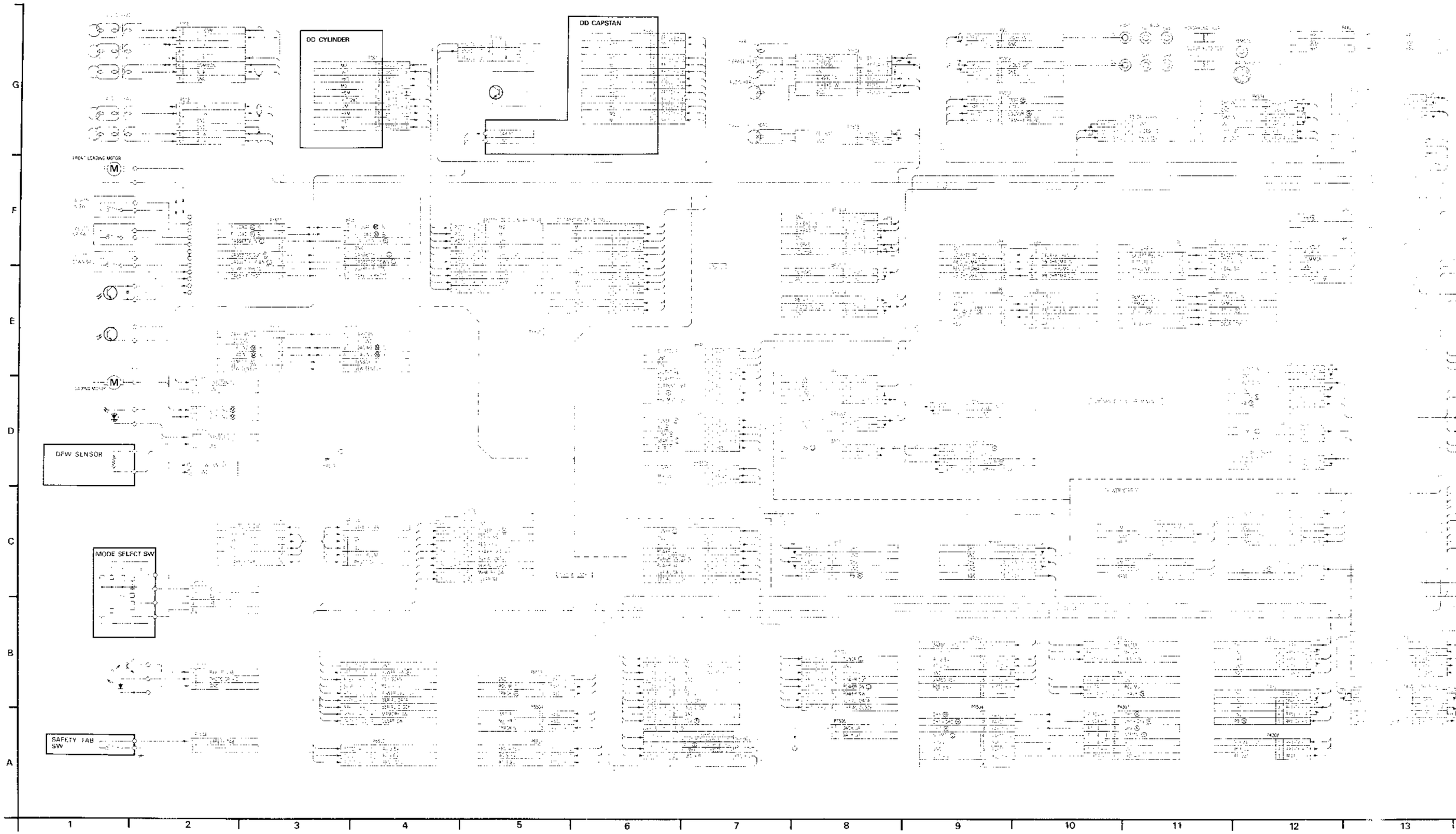
TOP VIEW (1)

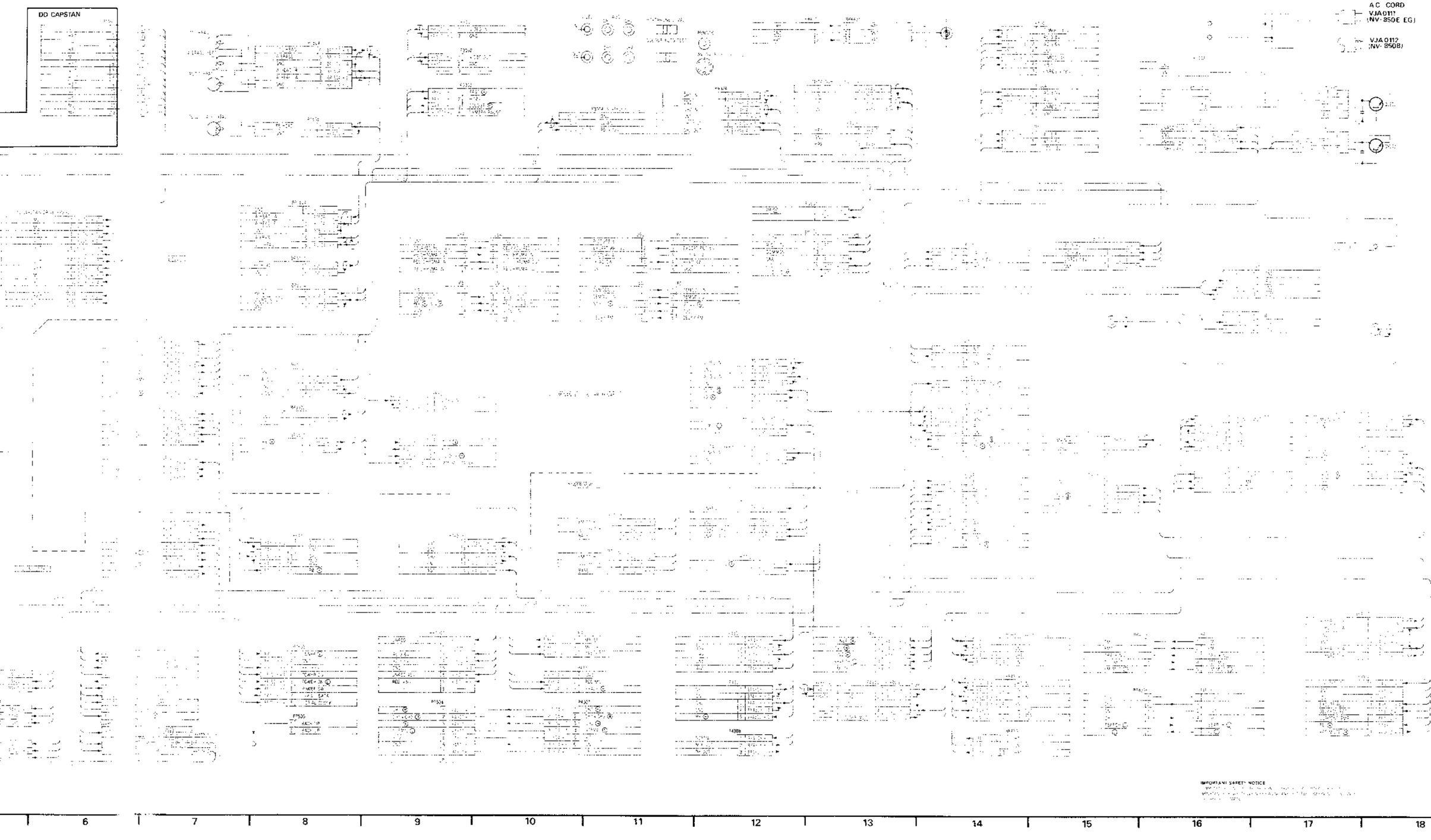


TOP VIEW (2)



3-39. INTERCONNECTION SCHEMATIC DIAGRAM




DD CAPSTAN
AC CORD
VJA 0117
(NV-850E EG)
VJA 0112
(NV-850B)
IMPORTANT SAFETY NOTICE
6
7
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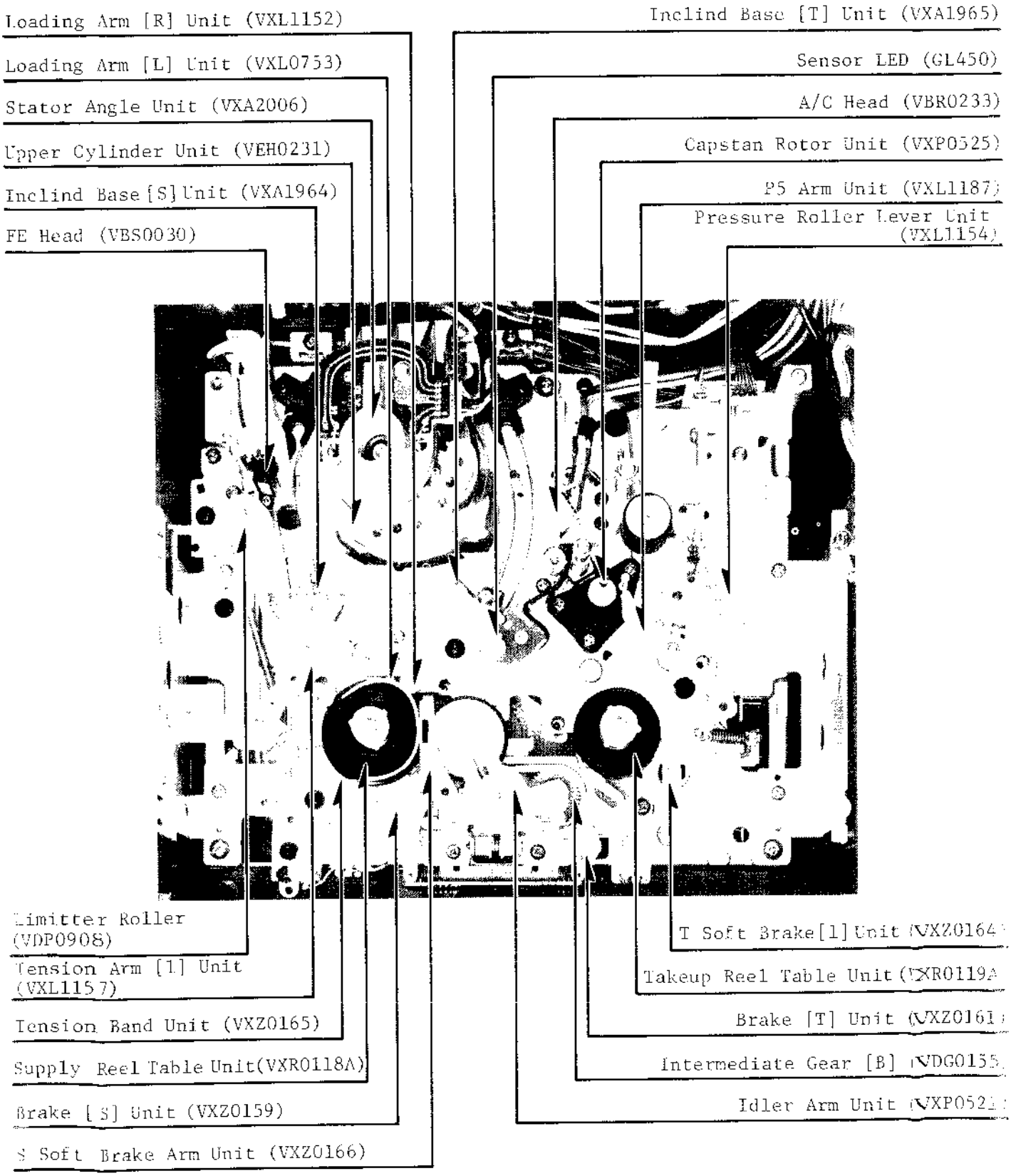
18

SECTION 4
EXPLODED VIEWS AND PARTS LIST

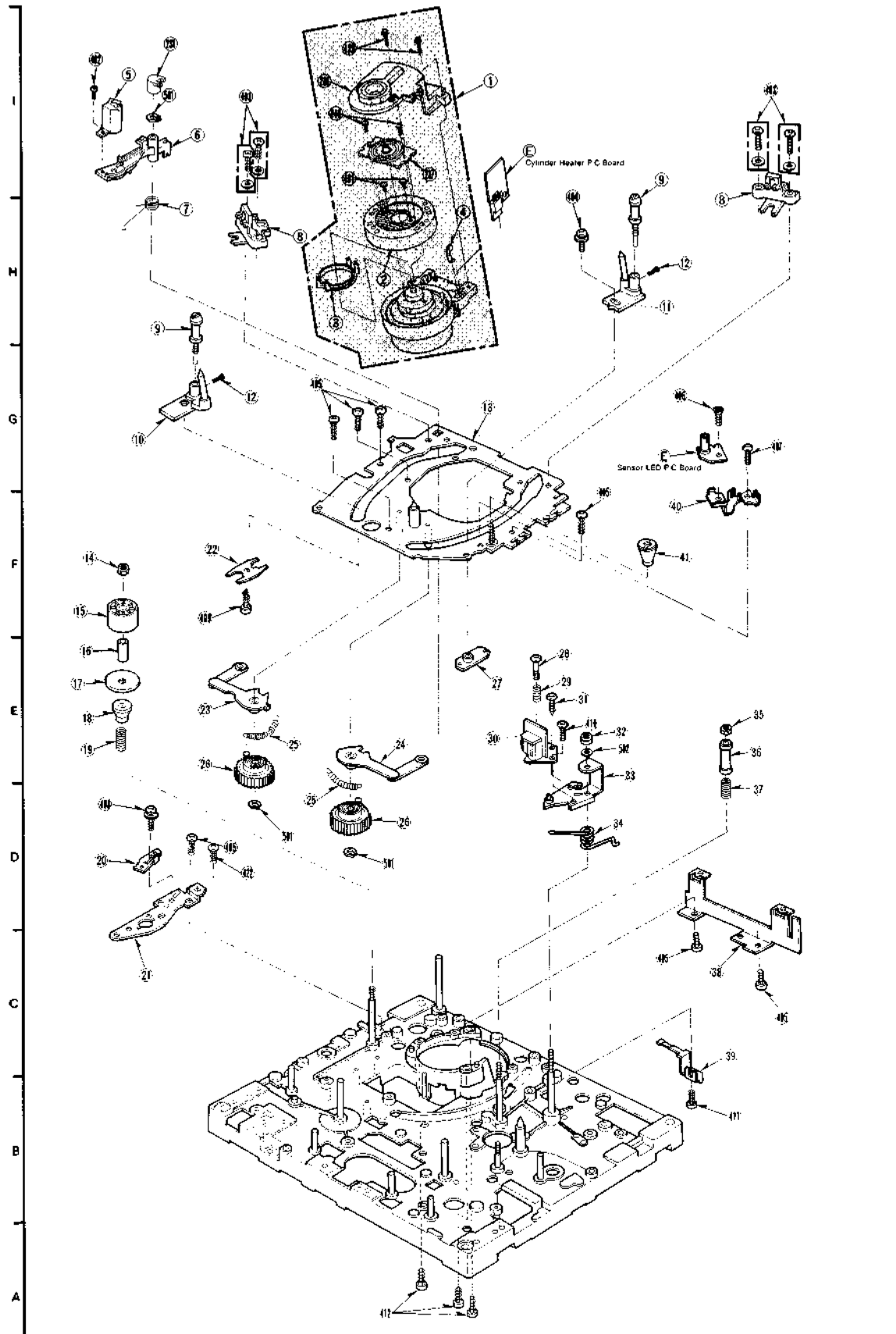
4-1. INNER PARTS LOCATION

TOP VIEW

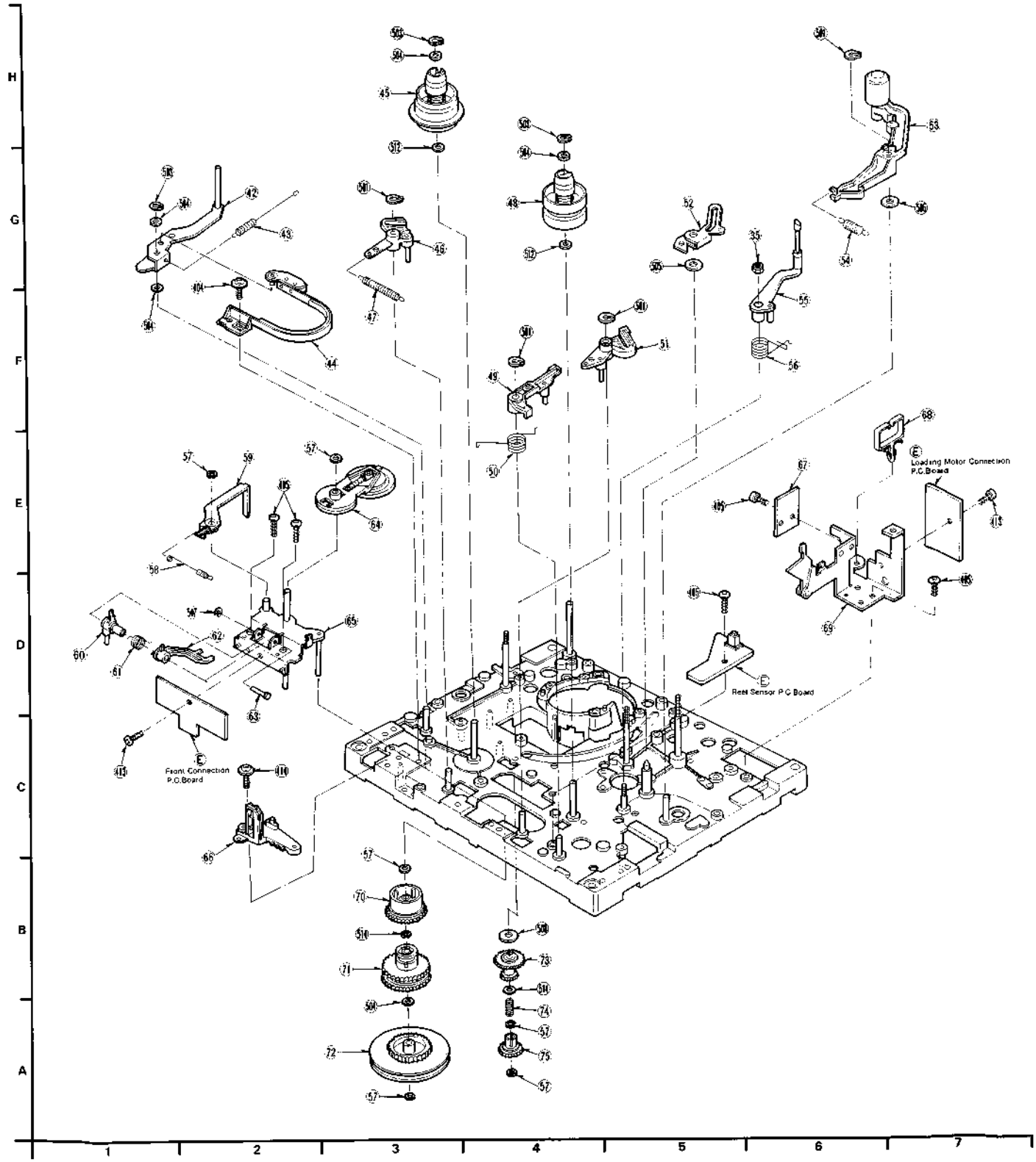


4-2. EXPLODED VIEW

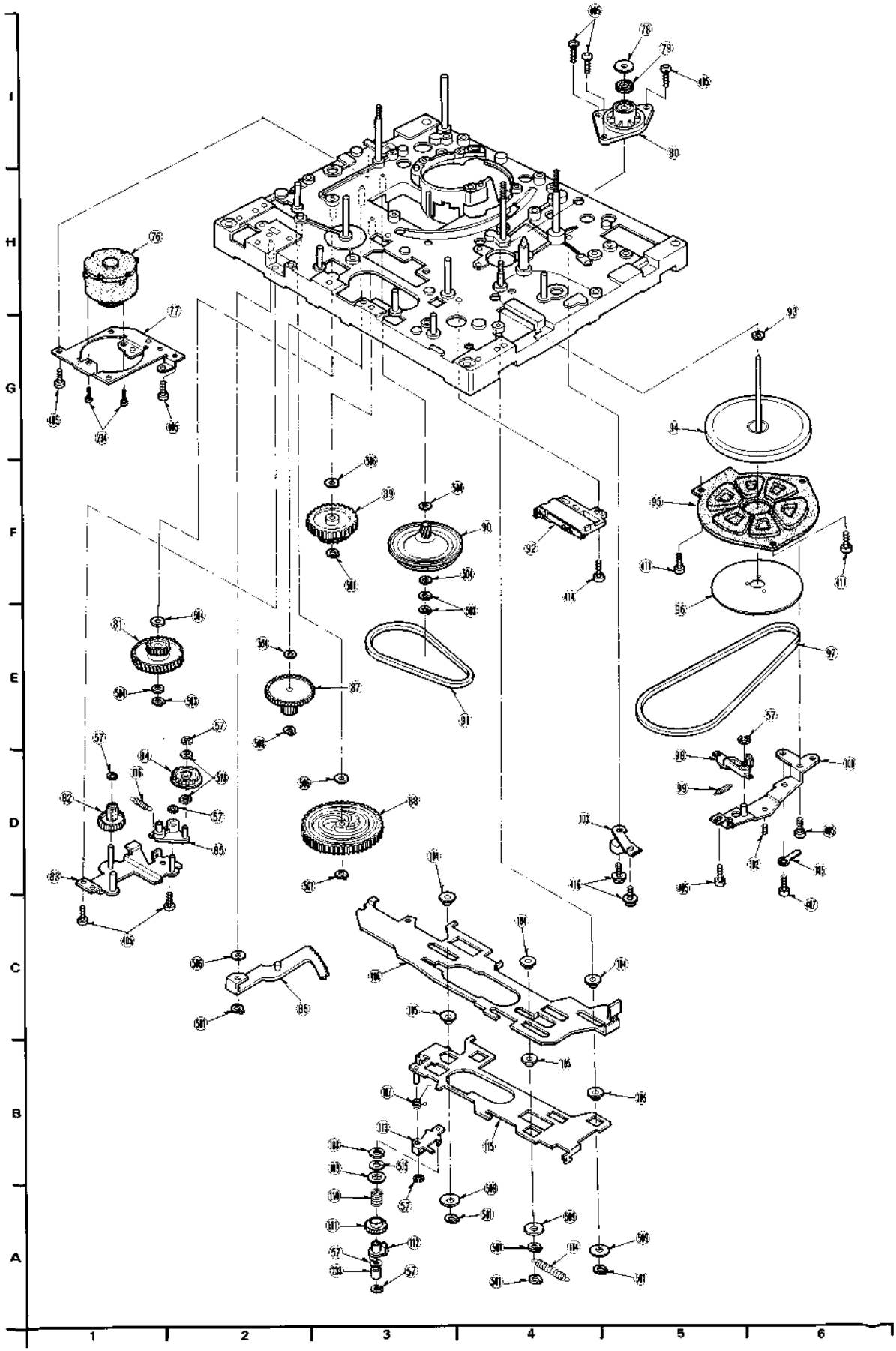
❶ TRANSPORT SECTION



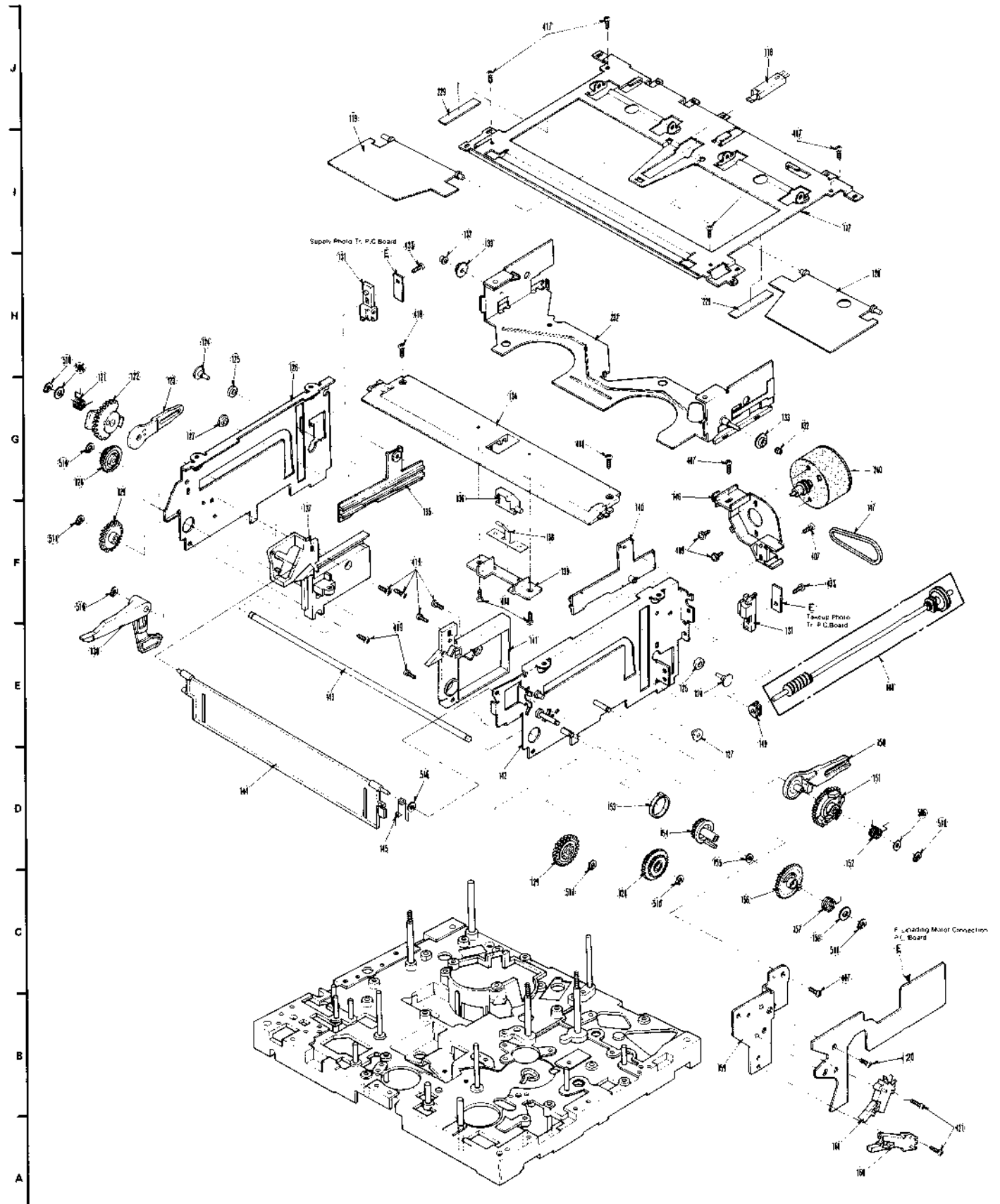
❷ MOVING MECHANISM SECTION



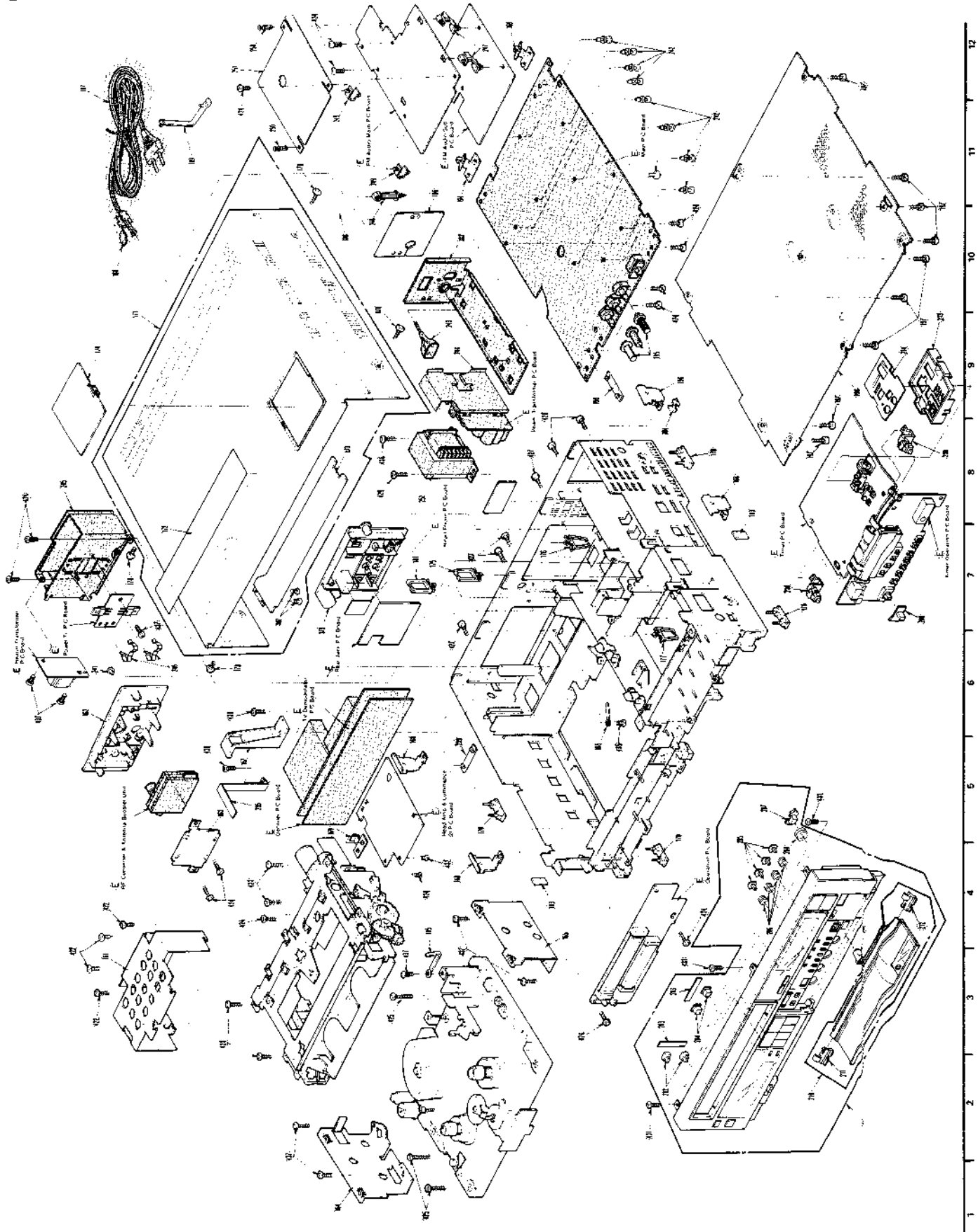
❸ CHASSIS PARTS SECTION



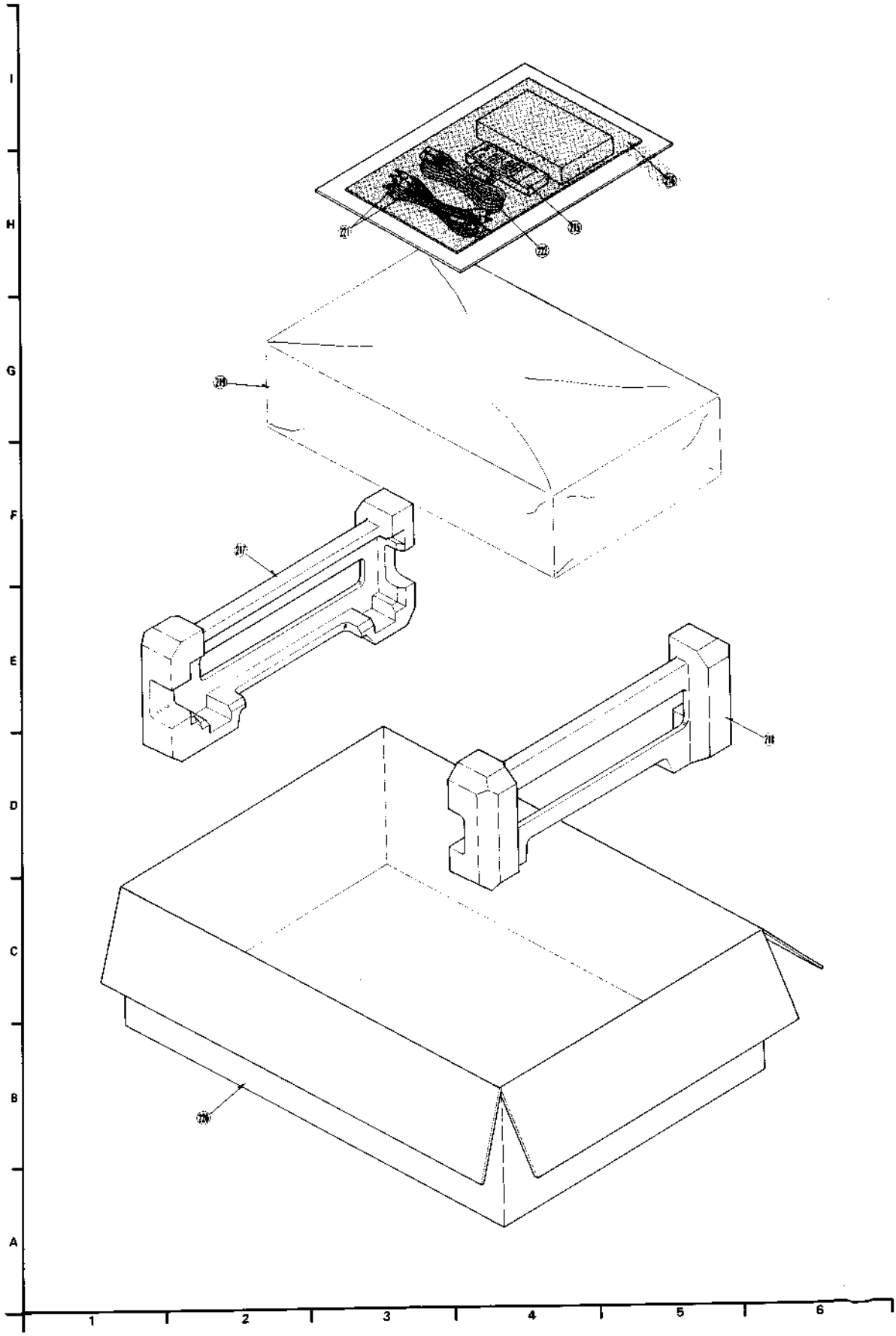
❹ CASSETTE UP MECHANISM SECTION



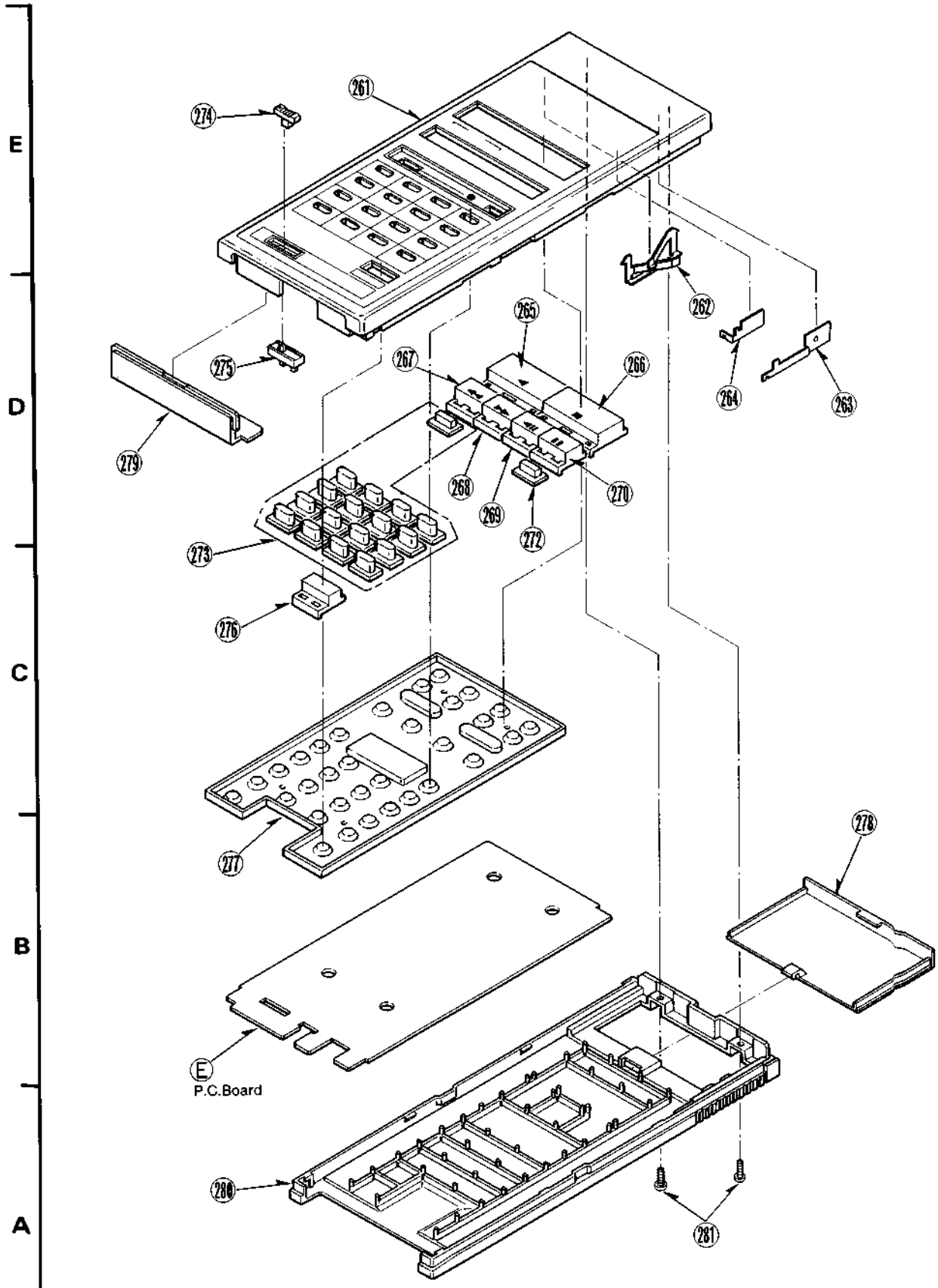
5 CASING PARTS SECTION



❻ PACKING PARTS SECTION



❼ REMOTE CONTROL UNIT



4-3. MECHANICAL REPLACEMENT PARTS LIST

Notes: 1. ▪ Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified by ⚠ have special characteristics important for safety. When replacing any of these components, use only the original ones.

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
1(1)		VEG0316	DD Cylinder Unit	1	⚠
2(1)		VER0231	Uppwer Cylinder Unit	1	
3(1)		VJR0094	RT Terminal	1	
4(1)		VMC0051	Cylinder Heater P.C.B.	1	
			Pressure Spring		
5(1)		VBS0030	FE Head	1	
6(1)		VML1544	FE Lever	1	
7(1)		VMB1005	FE Lever Spring	1	
8(1)		VMD0570	Post Stopper	2	
9(1)		VXP0444	Roller Post Unit	2	
10(1)		VXA1964	Inclind Base (S) Unit	1	
11(1)		VXA1965	Inclind Base (T) Unit	1	
12(1)		VMD0133	Screw	2	
13(1)		VXA1963	Loading Base (1) Unit	1	
14(1)		VMD0045	Nut	1	
15(1)		VDP0908	Limiter Roller	1	
16(1)		VMX0288	Collar	1	
17(1)		VMX0456	Lower Limiter	1	
18(1)		VMX0663	Limiter Stand	1	
19(1)		VMB0754	P1 Spring	1	
20(1)		VMA6338	Position Adjust Hook	1	
21(1)		VMA6358	Position Plate	1	
22(1)		VMA4436	Shaft Holder Stopper	1	
23(1)		VXL0753	Loading Arm (L) Unit	1	
24(1)		VXL1152	Loading Arm (R) Unit	1	
25(1)		VMB0669	Loading Spring	2	
26(1)		VXP0520	Loading Gear Unit	2	
27(1)		VXA1966	Inclind Adjustment Plate	1	
28(1)		VMD0054	Adjustment Screw (1S)	1	
29(1)		VMB0404	Adjustment Spring	1	
30(1)		VER0233	A/C Head	1	
31(1)		VMD0089B	Azimuth Adjustment Screw	1	
32(1)		VMN0038	Nylon Nut	1	
33(1)		VXA1571	Head Base Unit	1	
34(1)		VMB1189	A/C Height Spring	1	
35(1,2)		VMN0023	M3 Nylon Nut	2	
36(1)		VMX0647	Post Sleeve	1	
37(1)		VMB1235	P4 Spring	1	
38(1)		VMA6357	Chassis Bracket	1	
39(1)		VXS0059	Earth Plate Unit	1	
40(1)		VMA6353	LED Holder Angle	1	
41(1)		VMN0031	"X" Adjustment Nut	1	
42(2)		VXL1157	Tension Arm (1) Unit	1	
43(2)		VMB1187	Tension Spring	1	
44(2)		VXZ0165	Tension Band Unit	1	
45(2)		VXR0118A	Supply Reel Table Unit	1	
46(2)		VXZ0159	Brake (S) Unit	1	
47(2)		VMB0661	Brake Arm Spring	1	
48(2)		VXR0119A	Takeup Reel Table Unit	1	
49(2)		VXZ0164	T Soft Brake (1) Unit	1	
50(2)		VMB1186	Soft Brake Spring	1	
51(2)		VXZ0161	Brake (T) Unit	1	
52(2)		VML1532	P5 Pull Out Lever	1	
53(2)		VXL1154	Pressure Roller Lever Unit	1	
54(2)		VMB1188	Pin Pressure Spring	1	
55(2)		VXL1187	P5 Arm Unit	1	
56(2)		VMB1217	P5 Spring	1	
57(2,3)		VMX0653	Cut Washer	14	
58(2)		VMB1198	S Soft Brake Spring	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
59(2)		VXZ0166	S Soft Brake Arm Unit	1	
60(2)		VXL1169	Select Lever (A) Unit	1	
61(2)		VMB1197	Select Lever Spring	1	
62(2)		VML1533	Select Lever (B)	1	
63(2)		VMS2504	Select Lever Shaft	1	
64(2)		VXP0521	Idler Arm Unit	1	
65(2)		VXA1968	Center Base Plate	1	
66(2)		VES0243	Safety Switch Unit	1	
67(2)		VEK2054	Dew Sensor Unit	1	
68(2)		VJF0004	Wire Saddle	1	
69(2)		VXA1970	Opener Angle Unit	1	
70(2)		VDG0147	Clutch Gear	1	
71(2)		VXP0523	Clutch Gear Unit	1	
72(2)		VDP0951	Clutch Pulley	1	
73(2)		VDG0155	Intermediate Gear (B)	1	
74(2)		VMB1195	Intermediate Gear Lift	1	
			Spring		
75(2)		VDG0156	Intermediate Gear (A)	1	
76(3)		VEM0200	Loading Motor	1	⚠
77(3)		VMA6360	Loading Motor Bracket	1	
78(3)		VMX0251	Oil Seal	1	
79(3)		VMD0104	Oil Pool	1	
80(3)		VXD0087	Housing Unit	1	
81(3)		VDG0146	Intermediate Gear	1	
82(3)		VDG0151	Kick Gear	1	
83(3)		VXA1972	Kick Base (1) Unit	1	
84(3)		VDG0154	Select Gear	1	
85(3)		VXL1167	Select Gear Lever (1) Unit	1	
86(3)		VXL1168	Sector Gear Unit	1	
87(3)		VDG0145	Intermediate Gear	1	
88(3)		VDG0141	Cam Gear	1	
89(3)		VDG0143	Drive Gear (2)	1	
90(3)		VDG0142	Intermediate Pulley Gear	1	
91(3)		VDV0148	Loading Belt	1	
92(3)		VES0246	Mode Select Switch Unit	1	
93(3)		VMX0265	Thrust Washer	1	
94(3)		VXP0525	Capstan Rotor Unit	1	
95(3)		VEK2129	Capstan Stator Unit	1	⚠
96(3)		VXP0533	Capstan Pulley Unit	1	
97(3)		VDV0149	Capstan Belt	1	
98(3)		VXZ0168	Capstan Soft Brake Unit	1	
99(3)		VMB1204	Capstan Soft Brake Spring	1	
100(3)		VXA1996	Thrust Support Plate	1	
102(3)		VMX0396	Thrust Screw	1	
103(3)		VEH0213	FG Head Unit	1	
104(3)		VMX0308	Slide Washer	3	
105(3)		VMX0122	Slide Washer	3	
106(3)		VXL1158	Main Lever Unit	1	
107(3)		VMB1185	Kick Lever Spring	1	
108(3)		VMX0672	Cut Washer	1	
109(3)		VMX0644	Washer	1	
110(3)		VMB1184	Clutch Spring	1	
111(3)		VDG0153	Clutch Gear (1)	1	
112(3)		VDG0152	Clutch Gear (2)	1	
113(3)		VXL1165	Arm Lever (1) Unit	1	
114(3)		VMB1183	Sub Lever Spring	1	
115(3)		VXL1160	Sub Lever (1) Unit	1	
116(3)		VMB1192	Select Gear Lever Spring	1	
117(4)		VMA6354	Top Plate	1	
118(4)		VSM0047	Cassette In Detect Switch	1	
119(4)		VMD0580	Remains Display Board (L)	1	
120(4)		VMD0581	Remains Display Board (R)	1	
121(4)		VMB1089	Wiper Spring (L)	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
122(4)	VDG0160	Wiper Gear (L)	1	
123(4)	VML1436	Wiper Arm	1	
124(4)	VMS2305	Slider Roller Pin	2	
125(4)	VDP0839	Guide Roller	2	
126(4)	VXA1980	Side Plate (L)(1) Unit	1	
127(4)	VMS2468	Slide Roller Pin (2)	2	
128(4)	VDG0120	Intermediate Gear	2	
129(4)	VDG0157	Shaft Gear	2	
130(4)	VML1546	Front Opener Link	1	
131(4)	VMD0091	Transistor Holder	2	
132(4)	VDP0903	Wiper Roller	2	
133(4)	VDP0902	Cassette Holder Roller	2	
134(4)	VMD0452	Cassette Guide	1	
135(4)	VMD0448	Slider (L)	1	
136(4)	VMD0453	Safety Tab	1	
137(4)	VMD0577	Front Guide (L)	1	
138(4)	VMB1091	Safety Spring	1	
139(4)	VMD0454	Spring Holder	1	
140(4)	VMD0450	Slider (R)	1	
141(4)	VMD0576	Front Guide (R)	1	
142(4)	VXA1981	Side Plate (R)(1) Unit	1	
143(4)	VMS2499	Main Shaft	1	
144(4)	VKF0334	Blinder Panel	1	NV-850E(Black)/
				EG(Black)/B
144(4)	VKF0335	Blinder Panel	1	NV-850E(Silver)/
				EG(Silver)
145(4)	VMB1171	Blinder Panel Spring	1	
146(4)	VMD0455	F. Loading Motor Bracket	1	
147(4)	VDV0074	Loading Belt	1	
148(4)	VXA1754	Worm Shaft Pulley Unit	1	
149(4)	VDB0660	Worm Shaft Holder	1	
150(4)	VML1436	Wiper Arm	1	
151(4)	VDG0116	Wiper Gear (R)	1	
152(4)	VMP1090	Wiper Spring (R)	1	
153(4)	VMD0456	Stopper Ring	1	
154(4)	VDG0118	Clutch Gear	1	
155(4)	VMX0531	Clutch Spacer	1	
156(4)	VDG0117	Worm Wheel	1	
157(4)	VMB1093	Clutch Spring	1	
158(4)	VMX0530	Clutch Washer	1	
159(4)	VMA6340	Switch Bracket	1	
160(4)	VSH0046	Skeleton Switch	2	
161(5)	VSC1046	Shield Case	1	
162(5)	VJH0287	RF & ANT Board	1	
163(5)	VMA6381	RF & ANT Unit Mount Angle	1	
164(5)	VXA1987	Cassette Comp. Angle (L)	1	
165(5)	VXA1988	Cassette Comp. Angle (R)	1	
167(5)	VGQ0558	Tuner Holder	1	NV-850E/B
168(5)	VMP0370	Top Case Support Angle (A	3	
169(5)	VKC0055	Hinge (A)	2	
170(5)	VKA0026	Rubber Foot	4	
171(5)	VYP0901	Top Panel Unit	1	NV-850E(Silver)/
				EG(Silver)
171(5)	VYP0905	Top Panel Unit	1	NV-850E(Black)/
				EG(Black)/B
171(5)	VYP0884	Top Panel Unit	1	
172(5)	VQL2266	Characteristic Sticker	1	
172(5)	VQL2242	Characteristic Sticker	1	
173(5)	VKW0280	Top Smoke Board	1	
174(5)	VYF0313	Preset Cover Unit	1	NV-850E(Silver)/
				EG(Silver)
174(5)	VYF0318	Preset Cover Unit	1	NV-850E(Black)/
				EG(Black)
174(5)	VYF0353	Preset Cover Unit	1	NV-850B

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
175(5)	VJF0004	Wire Saddle	1	
176(5)	VJF0122	Wire Saddle	1	
177(5)	VJF0022	Wire Saddle	1	
178(5)	VHD0117	Screw	4	NV-850E(Silver)/
				EG(Silver)
178(5)	VHD0143	Screw	4	NV-850E(Black)/
				EG(Black)/B
179(5)	VEJ0295	Rear Jack Unit	1	NV-850E/EG
179(5)	VEJ0313	Rear Jack Unit	1	NV-850B
181(5)	VJF0031	Wire Saddle	1	
182(5)	VMP0371	Power Transformer Angle	1	⚠
183(5)	VNT0085	Rubber Cushion	2	
184(5)	VMA6386	Earth Angle	1	
185(3,5)	VJR3	Clamper	3	
186(5)	VGH0079	Power Name Plate	1	
187(5)	VJA0111	AC Cord	1	NV-850E/EG ⚠
187(5)	VJA0112	AC Cord	1	NV-850B ⚠
188(5)	VJF0107	AC Cord Bushing	1	⚠
189(5)	VJF0139	AC Cord Clamper	1	
			1	
			1	
193(5)	VKC0102	Hinge (B)	1	
194(5)	VKC0107	Hinge (C)	1	
195(5)	VGU1027	VR Knob	3	
196(5)	VMP0403	Top Case Support Angle (B)	1	
197(5)	VHD0059	Screw	9	
198(5)	VKU0205	Bottom Plate	1	
200(5)	VGU1128	Function Select Switch	1	
201(5)	VYP0898	Front Panel Unit	1	NV-850E(Silver)
201(5)	VYP0957	Front Panel Unit	1	NV-850i
201(5)	VYP0904	Front Panel Unit	1	NV-850E(Black)
201(5)	VYP0906	Front Panel Unit	1	NV-850EG(Silver)
201(5)	VYP0907	Front Panel Unit	1	NV-850EG(Black)
202(5)	VGU1088	Memory/Reset Button	2	
203(5)	VGQ0578	Cushion	1	
204(5)	VGU1073	Audio Dub/Rec mute Button	2	
205(5)	VGU1074	Multiplex Button	4	
206(5)	VMB1043	Button Spring (A)	4	
207(5)	VGU0595	Timer Rec Button	1	
208(5)	VMB1086	Button Spring (B)	1	
209(5)	VKC0111	Latch	1	
210(5)	VYF0315	Timer Door Unit	1	NV-850i(Silver)/
				EG(Silver)
210(5)	VYF0317	Timer Door Unit	1	NV-850i(Black)/
				EG(Black)/B
211(5)	VGQ0580	Hinge (L)	1	NV-850i(Silver)/
				EG(Silver)
211(5)	VGQ0593	Hinge (R)	1	NV-850i(Black)/
				EG(Black)/B
212(5)	VGQ0579	Hinge (R)	1	NV-850i(Silver)/
				EG(Silver)
212(5)	VGQ0592	Hinge (R)	1	NV-850i(Black)/
				EG(Black)/B
213(5)	VGQ0415	Preset VR Case	1	
214(5)	VGN1993	Preset VR Plate	1	NV-850E/EG
214(5)	VGN2054	Preset VR Plate	1	NV-850i
215(6)	VSQ0327	Remote Control Unit	1	NV-850E(Silver)/
				EG(Silver)
215(6)	VSQ0338	Remote Control Unit	1	NV-850i(Black)/
				EG(Black)/B
216(6)	VQF1157	Fan Bag Kit	1	NV-850i(Silver) ⚠
216(6)	VQF1160	Fan Bag Kit	1	NV-850i(Black) ⚠

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
216(6)	VQF1159	Fan Bag Kit	1	NV-850EG(Black) ⚠
216(6)	VQF1158	Fan Bag Kit	1	NV-850B ⚠
216(6)	VQF1197	Fan Bag Kit	1	NV-850EG(Silver) ⚠
217(6)	VPN0958	Cushion (L)	1	
218(6)	VPN0957	Cushion (R)	1	
219(6)	VPF0144	Polyethylene Bag	1	
220(6)	VPG1572	Packing Case	1	NV-850E(Silver)
220(6)	VPG1571	Packing Case	1	NV-850E(Black)
220(6)	VPG1619	Packing Case	1	NV-850EG(Silver)
220(6)	VPG1574	Packing Case	1	NV-850EG(Black)
220(6)	VPG1573	Packing Case	1	NV-850B
221(6)	VJA0231	Audio Cable	2	
222(6)	VJA0130	DIN RF Cable	1	
229(4)	VGQ0571	Spacer	2	
230(5)	VKC0076	Hinge(D)	2	
231(1)	VMD0369	Wire Holder	1	
232(4)	VXA2054	Cassette Holder (1) Unit	1	
233(3)	VMT0101	Stopper Cushion	1	
234(3)	VHD0146	Screw	1	
235(5)	VMP0419	Decoder P.C.B. Holder	1	
236(1)	VXA2006	Stator Angle Unit	1	
237(1)	VXA2004	RT Rotor Base Unit	1	
239(5)	VKC0083	Hinge (E)	1	
240(4)	MXN12AE10C	Front Loading Motor	1	⚠
241(5)	VMG0272	RF Converter Bushing	1	
242(5)	VMX0573	Spacer	8	
243(5)	VMX0237	AC Cord Cover	1	⚠
244(5)	VMZ0562	Barrier	1	⚠
245(5)	VSC1064	Power Heat Sink	1	
246(5)	VMB0758	Tr. Clamper	1	
247(5)	VKC0109	Hinge (F)	2	
248(5)	VJF0175	P.C. Board Supporter	1	
249(5)	VKC0068	Hinge (G)	2	
250(5)	VJF0108	Rivet	2	
251(5)	VXA2062	Barrier	1	
252(5)	VTP0105	Power Transformer	1	NV-850E/EG ⚠
252(5)	VTP0104	Power Transformer	1	NV-850B ⚠
261(7)	VYK0655	Top Case Unit	1	NV-850E(Silver)/
				EG(Silver)
261(7)	VYK0657	Top Case Unit	1	NV-850E(Black)/
				EG(Black)/B
262(7)	VJR0101	Electrode (Common)	1	
263(7)	VJR0100	Electrode (-)	1	
264(7)	VJR0099	Electrode (+)	1	
265(7)	VGU1204	Play Button	1	NV-850E(Silver)/
				EG(Silver)

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
265(7)	VGU1288	Play Button	1	NV-850E(Black)/
				EG(Black)/B
266(7)	VGU1205	Stop Button	1	NV-850E(Silver)/
				EG(Silver)
266(7)	VGU1289	Stop Button	1	NV-850E(Black)/
				EG(Black)/B
267(7)	VGU1209	FF Button	1	NV-850E(Silver)/
				EG(Silver)
267(7)	VGU1293	FF Button	1	NV-850E(Black)/
				EG(Black)/B
268(7)	VGU1208	Rew Button	1	NV-850E(Silver)/
				EG(Silver)
268(7)	VGU1292	Rew Button	1	NV-850E(Black)/
				EG(Black)/B
269(7)	VGU1207	F. Adv Button	1	NV-850E(Silver)/
				EG(Silver)
269(7)	VGU1291	F. Adv Button	1	NV-850E(Black)/
				EG(Black)/B
270(7)	VGU1206	Still Button	1	NV-850E(Silver)/
				EG(Silver)
270(7)	VGU1290	Still Button	1	NV-850E(Black)/
				EG(Black)/B
272(7)	VGU2212	Rec Button A (Red)	1	
273(7)	VGU2211	CH Select & Rec B Button	1	NV-850E(Silver)/
				EG(Silver)
273(7)	VGU1335	CH Select & Rec B Button	1	NV-850E(Black)/
				EG(Black)/B
274(7)	VGU2213	Power Button	1	
275(7)	VGU0656	Button Holder	1	
276(7)	VGU1210	VTR Button	1	NV-850E(Silver)/
				EG(Silver)
276(7)	VGU1294	VTR Button	1	NV-850E(Black)/
				EG(Black)/B
277(7)	VSP0150	Rubber Contact	1	
278(7)	VKF0340	Battery Cover	1	
279(7)	VKW0297	Smoke Board	1	
280(7)	VYK0656	Bottom Case Unit	1	NV-850E(Silver)/
				EG(Silver)
280(7)	VYK0658	Bottom Case Unit	1	NV-850E(Black)/
				EG(Black)/B
281(7)	XTB2+50	Screw	1	
		Screws		
401(1)	XYNV3+B8BNS		2	
402(1)	XTN26+6G		1	
403(1)	XYE3+BF15FZ		4	
404(1)	XYN3+F8FZS		2	
405(1,2,3,4,5)	XTV3+8F		23	
406(1)	XSS26+6		1	
407(1,3,4,5)	XTV3+6F		7	
408(1)	XYN3+F6FZS		1	
409(1,4)	XYN3+C4S		3	
410(1)	XSN3D10FZS		1	
411(1,3)	XTV3+8FFZ		3	
412(1)	XYN3+C8S		3	
413(2,4)	XYE3+EF8		1	
414(2)	XYE3+BF9FZ		2	
416(3)	XYE3+BF8FZ		1	
417(4)	XTS3+8F		4	
418(4)	XTB3+8GK		4	
419(4)	XTB3+8FK		6	
420(4)	XYE3+FE6		1	
421(4)	XYN2+F10		2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
422(1,5)		XTV3+8JR		5	
423(5)		XYN3+F8RS		4	
424(5)		XTV3+10GR		13	
425(5)		XTV4+30A		3	
426(5)		XTV3+8G		2	
427(5)		XTV3+10JPZ		4	
428(5)		XSB3+8FZS		2	
429(5)		XTV4+15A		1	
430(5)		XTV3+8J2F		2	
431(5)		XTW3+8FR		3	
432(4)		XTV3+8FR		1	
433(4)		XYB3+EF10		2	
434(5)		XTS23+6J		2	
435(5)		XTV3+10G		1	
436(5)		XTV3+8F		1	
437(5)		XTV3+8J		8	
438(5)		XTV3+8GR		2	
439(1)		XYN3+A14		2	
440(1)		EYN3+C10		2	
			Washers & Rings		
501(1,2,3)		XUEV4WW		14	
502(1)		XWE5		1	
503(2,3)		XUEV3WW		7	
504(2,3)		XWGV3D7G		10	
505(2)		XWGV6F9G		1	
506(2,3,4)		XWGV4D9G		6	
507(2)		XUC15FF		1	
508(2)		XWGV3D12G		1	
509(3)		XWGV4D11G		3	
510(4)		XUC3FF		7	
511(4)		XUC2SFF		3	
512(2)		XWGV3D8G		2	
513(3)		XWGV3Y6G		2	
514(2)		XWGV3D54G		2	
515(3)		XWGV5Y9G		1	
516(4)		XWGV3F6G		1	

4-4. ELECTRICAL REPLACEMENT PARTS LIST

Notes: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified by △ have special characteristics important for safety. When replacing any of these components, use only the original ones.
3. Unless otherwise specified,
All resistors are in OHMS (Ω), 1/4W ± 5% carbon. K=1,000Ω, M=1,000KΩ. All capacitors are in MICROFARADS (μF), ± 10% P=μμF.

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	VEP03197A	Main [Power Supply, Servo, Luminance (1), Chrominance, Audio & System Control] P.C. Board Unit	1	NV-850EG△
	VEP03197B	Main [Power Supply, Servo, Luminance (1), Chrominance, Audio & System Control] P.C. Board Unit	1	NV-850B△
	VEP03197C	Main [Power Supply, Servo, Luminance (1), Chrominance, Audio & System Control] P.C. Board Unit	1	NV-850E△
	VEP05053A	Head Amp & Luminance (2) P.C. Board Unit	1	
	VEP06212A	Operation P.C. Board Unit	1	
	VEP07186G	TV Demodulator P.C. Board Unit	1	NV-850E△
	VEP07186H	TV Demodulator P.C. Board Unit	1	NV-850B△
	VEP07193A	TV Demodulator P.C. Board Unit	1	NV-850EG△
	VEP07194A	Decoder P.C. Board Unit	1	NV-850EG
	VEP07195A	Timer P.C. Board Unit	1	NV-850E/EG
	VEP07195B	Timer P.C. Board Unit	1	NV-850B
	VEP07196A	Timer Operation P.C. Board Unit	1	NV-850E/EG
	VEP07196E	Timer Operation P.C. Board Unit	1	NV-850B
	VEP00A99A	FM Aduio Main P.C. Board Unit	1	
	VEP00B01A	FM Audio Sub P.C. Board Unit	1	NV-850EG
	VEP00B01B	FM Audio Sub P.C. Board Unit	1	NV-850B
	VEP00B01C	FM Audio Sub P.C. Board Unit	1	NV-850E
	ENC87751	RF Converter Unit	1	NV-850E/EG△
	ENC87752	RF Converter Unit	1	NV-850E△
	VJB00A53	Reel Sensor P.C. Board	1	
	VJB00A54	Loading Motor Connection P.C. Board	1	
	VJB00A55	Front Connection P.C. Board	1	
	VJB00A56	Takeup Photo Transistor P.C. Board	1	
	VJB00A82	F. Loading Motor Connection P.C. Board	1	
	VJB00A94	Supply Photo Transistor P.C. Board	1	
	VJB00A98	Rear Jack P.C. Board	1	
	VJB00B45	Heater Transformer P.C. Board	1	
	VJB00B46	Power Transistor P.C. Board	1	
	VJB00B47	Head Phone P.C. Board	1	
	VJB00B64	IR Remote Control Reciever P.C. Board	1	
	VJB00B78	Cylinder Heater P.C. Board	1	
	VJB00976	Sensor LED P.C. Board	1	
	VJB01137	Power Transformer P.C. Board	1	△
	VJB00C08	IR Remote Control Transmitter P.C. Board	1	
	VTP0105	Power Transformer	1	NV-150E/EG△
	VTP0104	Power Tansformer	1	NV-150B△
	VMZ0562	Barrier	1	△
	XTV4+8F	Screw	1	
	VJF0052	Binder	5	
	VJF0055	Binder	6	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	VEP03197A/	Main[Power Supply,Servo,		
	B/C	Luminance (1),		
		Chrominance, Audio &		
		System Control]P.C.Board		
		Unit		
		(Power Supply Section)		
		Transistors		
Q1001	2SD636		1	(Q,R,S,T) or 2SC2021M
				(Q,R,S,E)
Q1003	2SD636		1	(Q,R,S,T) or 2SC2021M
				(Q,R,S,E)
Q1102	2SD1265		1	⚠
		Diodes		
D1002	RD3.9EB1	Zener	1	
D1003,1004	MA165		2	
D1110	RD13EB3	Zener	1	
		Resistors		
R1001	ERQ14LKR39	Metal 0.39	1	⚠
R1002	ERDS2TJ471	470	1	
R1003	EVN38CA00B53	Variable 5K	1	
R1004	ERDS2TJ392	3.9K	1	
R1005	EROS2CKG3901	Metal 3.9K	1	
R1006	EROS2CKG3001	Metal 3K	1	
R1007	ERDS2TJ103	1K	1	
R1008	ERDS2TJ682	6.8K	1	
R1009	ERDS2TJ472	4.7K	1	
R1010	EROS2CKG1800	Metal 180	1	
R1102	ERDS2TJ152	1.5K	1	
		Capacitors		
C1002	ECEA0JK470	Electrolytic 6.3V 47	1	
C1003	ECEA1HU470	Electrolytic 50V 47	1	or ECEA1HS470
C1104	ECEA1CK470	Electrolytic 16V 47	1	
C1004	ECEA0JU470	Electrolytic 6.3V 47	1	
		(Servo Section)		
		Integrated Circuits		
IC2001	AN6359N		1	
IC2002	MN6168V1F		1	
IC2003	AN6356N		1	
IC2004	AN3822		1	
IC2005	AN6387		1	
IC2007	BA855		1	
IC2008	AN6342N		1	
IC2009	BA6323L		1	
IC2010	μPC358C		1	

Ref. No	Part No.	Part Name & Description	Pcs / Set	Remarks
		Transistors		
Q2001,2002	2SD636		2	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
Q2003	2SB641		1	(P,Q,R,S)
				or 2SA937M(Q,R,S)
Q2004	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M (Q,R,S,E)
Q2005	2SB641		1	(P,Q,R,S)
				or 2SA937M (Q,R,S)
Q2006	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
		Combination Parts		
		(Transistor & Resistor)		
QR2001-2003	DTC144A		3	or UN1213
QR2004	DTA144A		1	or UN1113
QR2006,2007	DTC144A		2	or UN1213
QR2008,2009	DTA144A		2	or UN1113
QR2010	DTC144A		1	or UN1213
		Diodes		
D2001,2002	MA165		2	
D2003	10E1		1	or ERB1201G1
D2004	MA154WK		1	
D2005-2007	MA165		3	
D2009-2014	MA165		6	
		Resistors		
R2001	ERDS2TJ223	22K	1	
R2002	ERDS2TJ272	2.7K	1	
R2003	ERDS2TJ472	4.7K	1	
R2004	ERDS2TJ154	150K	1	
R2005	ERDS2TJ333	33K	1	
R2006	ERDS2TJ154	150K	1	
R2007	ERDS2TJ332	3.3K	1	
R2008	ERDS2TJ124	120K	1	
R2009	ERDS2TJ154	150K	1	
R2010	ERDS2TJ563	56K	1	
R2011	ERDS2TJ103	10K	1	
R2012	ERDS2TJ274	270K	1	
R2013	ERDS2TJ682	6.8K	1	
R2014	ERDS2TJ222	2.2K	1	
R2015	EVJ1EAF20B15	Variable 100K	1	
R2016	EVN61AA00B15	Variable 100K	1	
R2017	ERDS2TJ102	1K	1	
R2018	EVN61AA00B54	Variable 50K	1	
R2019	ERDS2TJ153	15K	1	
R2020	ERDS2TJ223	22K	1	
R2021	ERDS2TJ391	390	1	
R2022	ERDS2TJ563	56K	1	
R2023	ERDS2TJ473	47K	1	
R2024,2025	ERDS2TJ223	22K	2	
R2026	ERDS2TJ104	100K	1	
R2027	ERDS2TJ393	39K	1	
R2028	ERDS2TJ124	120K	1	
R2029	ERDS2TJ222	2.2K	1	
R2030,2031	ERDS2TJ103	10K	2	
R2032	ERDS2TJ562	5.6K	1	
R2033	ERDS2TJ103	10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R2034	ERDS2TJ105	1M	1	
R2035	ERX12ANJR82	Metal 1/2W 0.82	1	
R2036	ERDS2TJ102	1K	1	
R2037	ERDS2TJ103	10K	1	
R2038-2040	ERDS2TJ224	220K	3	
R2041	ERDS2TJ181	180	1	
R2042	ERDS2TJ104	100K	1	
R2043	ERDS2TJ124	120K	1	
R2044	ERX12ANJR68	Metal 1/2W 0.68	1	
R2045-2047	ERDS2TJ150	15	3	
R2049	ERQ12HJ6R8	Metal 1/2W 6.8	1	⚠
R2050	ERDS2TJ563	56K	1	
R2055	ERDS2TJ105	1M	1	
R2056	ERDS2TJ183	18K	1	
R2057	ERDS2TJ103	10K	1	
R2058	ERDS2TJ333	33K	1	
R2059	ERDS2TJ102	1K	1	
R2060	ERDS2TJ472	4.7K	1	
R2063	ERDS2TJ102	1K	1	
R2064	ERDS2TJ184	180K	1	
R2065	ERDS2TJ473	47K	1	
R2066	EVN61AA00B54	Variable 50K	1	
R2067	ERDS2TJ184	180K	1	
R2068	ERDS2TJ154	150K	1	
R2069	ERDS2TJ683	68K	1	
R2070	ERDS2TJ184	180K	1	
R2071	ERQS2CKG5102	Metal 51K	1	
R2072	EVTK4CA00B15	Variable 100K	1	
R2073	EVN3ACA00B54	Variable 50K	1	
R2074	ERDS2TJ563	56K	1	
R2075	ERDS2TJ151	150	1	
R2076	ERDS2TJ153	15K	1	
R2077	ERDS2TJ222	2.2K	1	
R2078	ERDS2TJ223	22K	1	
R2079,2080	ERDS2TJ563	56K	2	
R2081	ERDS2TJ273	27K	1	
R2082	ERDS2TJ223	22K	1	
R2083	ERQS2CKG3002	Metal 30K	1	
R2084	ERDS2TJ102	1K	1	
R2085	EVN61AA00B15	Variable 100K	1	
R2087	ERDS2TJ102	1K	1	
R2088	ERDS2TJ562	5.6K	1	
R2089	ERDS2TJ472	4.7K	1	
R2090	ERDS2TJ564	560K	1	
R2091	ERDS2TJ561	560	1	
R2092	ERDS2TJ104	100K	1	
R2093	ERDS2TJ105	1M	1	
R2094	ERDS2TJ102	1K	1	
		Capacitors		
C2001	ECQV1H104JZ	Mylar 50V 0.1	1	
C2003	VCYG1E562JR	Semiconductor 25V 5600P	1	
C2004	ECEA1HK0R1	Electrolytic 50V 0.1	1	
C2005	ECQB1H223KH	Mylar 50V 0.022	1	
C2006	ECEA0JK101	Electrolytic 6.3V 100	1	
C2007	VCYG1E562JR	Semiconductor 25V 5600P	1	
C2008	ECEA1HK0R1	Electrolytic 50V 0.1	1	
C2009	ECEA0JK330	Electrolytic 6.3V 33	1	
C2010	ECEA1HK010	Electrolytic 50V 1	1	
C2011	ECQV1H334JZ	Mylar 50V 0.33	1	
C2012	ECQV1H683JZ	Mylar 50V 0.068	1	
C2013	ECKF1H472ZF	Ceramic 50V 4700P	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C2014,2015	ECEA1CK100	Electrolytic 50V 10	2	
C2016	ECEA0JK470	Electrolytic 6.3V 47	1	
C2017	ECEA10Z100	Electrolytic 10V 10	1	
C2018	ECQV1H104JZ	Mylar 50V 0.1	1	
C2019	ECEA0JK101	Electrolytic 6.3V 100	1	
C2020	ECQV1H104JZ	Mylar 50V 0.1	1	
C2021	ECEA1HK010	Electrolytic 50V 1	1	
C2022-2024	ECKF1H272KB	Ceramic 50V 2700P	3	
C2025-2027	ECEA1EK4R7	Electrolytic 25V 4.7	3	
C2028	ECKF1H222KB	Ceramic 50V 2200P	1	
C2029	VCYG1E682JR	Semiconductor 25V 6800P	1	
C2030	ECKF1H103ZF	Ceramic 50V 0.01	1	
C2031	ECEA1HKR22	Electrolytic 50V 0.22	1	
C2032	VCYG1E123JR	Semiconductor 25V 0.012	1	
C2033	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C2034	ECEA1CK470UJ	Electrolytic 16V 47	1	
C2035-2037	ECEA1EN4R7SE	Electrolytic 25V 4.7	3	
C2038	ECEA1HKN010	Electrolytic 50V 1	1	
C2039	ECKF1H152KB	Ceramic 50V 1500P	1	
C2040	ECEA1HK0R1	Electrolytic 50V 0.1	1	
C2041	ECQB1H222KH	Mylar 50V 2200P	1	
C2042	ECKF1H103ZF	Ceramic 50V 0.01	1	
C2046	ECEA1EKN2R2	Electrolytic 25V 2.2	1	
C2047	ECEA1HK010	Electrolytic 50V 1	1	
C2048	ECEA1CK100	Electrolytic 16V 10	1	
C2049	VCYG1E103JR	Semiconductor 25V 0.01	1	
C2050	VCYG1E123JR	Semiconductor 25V 0.012	1	
C2051	ECQV1H104JZ	Mylar 50V 0.1	1	
C2052	ECEA0JK470	Electrolytic 6.3V 47	1	
C2053	VCYG1E682JR	Semiconductor 25V 6800P	1	
C2054	ECEA16Z10	Electrolytic 16V 10	1	
C2055	VCYG1E103JR	Semiconductor 25V 0.01	1	
C2056,2057	ECQV1H124JZ	Mylar 50V 0.12	2	
C2058	ECQV1H154JZ	Mylar 50V 0.15	1	
C2059	ECQV1H124JZ	Mylar 50V 0.12	1	
C2060	ECQB1H272KH	Mylar 50V 2700P	1	
C2061	ECQB1H822KH	Mylar 50V 8200P	1	
C2062	ECQB1H682KH	Mylar 50V 6800P	1	
C2063	VCYG1E103JR	Semiconductor 25V 0.01	1	
C2064	ECEA1CK100	Electrolytic 16V 10	1	
C2065	VCYG1E103JR	Semiconductor 25V 0.01	1	
C2066	ECEA1HK010	Electrolytic 50V 1	1	
C2067	ECQB1H103KH	Mylar 50V 0.01	1	
C2068	ECQV1H104JZ	Mylar 50V 0.1	1	
C2069,2070	ECEA0JK101	Electrolytic 6.3V 100	2	
C2071	ECEA1CK470	Electrolytic 16V 47	1	
C2072	ECEA0JK101	Electrolytic 6.3V 100	1	
C2073	ECEA1EU470	Electrolytic 25V 47	1	or ECEA1ES470
		Combination Circuits (Capacitor & Resistor)		
CR2001	EXED472M104T	4700P, 100K	1	
CR2002	EXED223M222T	0.022, 2.2K	1	
		(Luminance (1) Section) Integrated Circuits		
IC3001	BA7004		1	
IC3050	AN6328		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Transistors		
Q3001	2SC2206		1	
Q3002	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
Q3004	2SB641		1	(P,Q,R,S,T) NV-850E/EG
Q3005	2SD636		1	(P,Q,R,S,T) NV-850E/EG
Q3006	2SD638		1	(P,Q,R,S,T) NV-850E/EG
		Combination Parts		
		(Transistor & Resistor)		
QR3001	DTC124A		1	or UN1212 NV-850E/EG
QR3002	DTC114A		1	NV-850E/EG
QR3003	DTC124A		1	or UN1212 NV-850E/EG
QR3050	DTC124A		1	or UN1212
		Diodes		
D3001	MA154WK		1	
D3002	MA165		1	
D3003	MA154WK		1	
D3004,3005	MA165		2	
D3006-3008	MA165		3	
D3009-3012	MA165		4	
D3013	MA165		1	NV-850B
D3014	MA165		1	
		Resistors		
R3001	ERDS2TJ103	10K	1	
R3002	ERDS2TJ392	3.9K	1	
R3003	ERDS2TJ152	1.5K	1	
R3004	ERDS2TJ102	1K	1	
R3005	ERDS2TJ331	330	1	
R3006	ERDS2TJ103	10K	1	
R3007	ERDS2TJ223	22K	1	
R3008	ERDS2TJ822	8.2K	1	
R3009,3010	ERDS2TJ102	1K	2	
R3011	ERDS2TJ152	1.5K	1	
R3012	ERDS2TJ561	560	1	
R3013	ERDS2TJ102	1K	1	
R3015	ERDS2TJ750	75	1	
R3017	ERDS2TJ750	75	1	
R3018	EVJ1EAF20B23	Variable 2K	1	
R3019	ERDS2TJ103	1K	1	
R3020	ERDS2TJ333	33K	1	NV-850E/EG
R3024	ERDS2TJ181	180	1	NV-850E/EG
R3025	ERDS2TJ820	82	1	NV-850E/EG
R3026	ERDS2TJ563	56K	1	NV-850E/EG
R3029	ERDS2TJ822	8.2K	1	NV-850E/EG
R3030	ERDS2TJ222	2.2K	1	NV-850E/EG
R3031	ERDS2TJ472	4.7K	1	NV-850E/EG
R3032	ERDS2TJ332	3.3K	1	NV-850E/EG
R3033	ERDS2TJ821	820	1	NV-850E/EG
R3034	ERDS2TJ180	18	1	NV-850E/EG
R3035	ERDS2TJ391	390	1	NV-850E/EG
R3036	ERDS2TJ681	680	1	
R3037	ERDS2TJ271	270	1	
R3051	ERDS2TJ101	100	1	
R3052	ERDS2TJ122	1.2K	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R3053	ERDS2TJ560	56	1	
R3054	ERDS2TJ680	68	1	
R3055	ERDS2TJ122	1.2K	1	
R3056	EVN61AA00B23	Variable 2K	1	
R3057	ERDS2TJ182	1.8K	1	
R3058	ERDS2TJ121	120	1	
R3059	ERDS2TJ471	470	1	
R3060	ERDS2TJ821	820	1	
R3061	ERDS2TJ102	1K	1	
R3062	ERDS2TJ391	390	1	
R3063	ERDS2TJ122	1.2K	1	
		Capacitors		
C3001	ECEA1CK100	Electrolytic 16V 10	1	
C3002	ECEA1CK470	Electrolytic 16V 47	1	
C3003	ECEA1AU331	Electrolytic 10V 330	1	or ECEA1AS331
C3004	ECEA1AKN470	Electrolytic 10V 47	1	
C3005,3006	ECEA1CK100	Electrolytic 16V 10	2	
C3007,3008	VCYG1E332KR	Semiconductor 25V 3300P	2	
C3009	ECCF1H390KC	Ceramic 50V 39P	1	
C3020	ECEA1CK330	Electrolytic 16V 33	1	NV-850E/EG
C3023	ECEA1CK330	Electrolytic 16V 33	1	NV-850E/EG
C3024	ECEA1CU101	Electrolytic 16V 100	1	or ECEA1CS101
				NV-850E/EG
C3026	ECQV1H274JZ	Mylar 50V 0.27	1	NV-850E/EG
C3051	ECEA1AK470	Electrolytic 10V 47	1	
C3052	ECEA1HK010	Electrolytic 50V 1	1	
C3053	ECEA1HKN010	Electrolytic 50V 1	1	
C3054	ECEA1HKN010	Electrolytic 50V 1	1	
C3055	ECKF1H122KB	Ceramic 50V 1200P	1	
C3056	ECEA1AK470	Electrolytic 10V 47	1	
C3057	ECKF1H391KB	Ceramic 50V 390P	1	
C3058	ECCF1H680J	Ceramic 50V 68P	1	
C3059	ECKF1H331KB	Ceramic 50V 330P	1	
C3060	ECKF1H151KB	Ceramic 50V 150P	1	
C3061	ECCF1H820KC	Ceramic 50V 82P	1	
C3062,3063	ECKF1H103ZF	Ceramic 50V 0.01	2	
C3065	VCKG1H561JA	Semiconductor 50V 560P	1	
C3066	ECEA1AU221	Electrolytic 10V 220	1	or ECEA1AS221
C3067	ECCF1H470JC	Ceramic 50V 47P	1	
C3068	ECCF1H330JC	Ceramic 50V 33P	1	
C3069	ECKF1H391KB	Ceramic 50V 390P	1	
		Coils		
L3001,3002	VLQEL05F101K	100μH	2	
L3003	VLQEL05F101K	100μH	1	NV-850E/EG
L3051	VLQEL05F101K	100μH	1	
L3052	VLQEL05F6R8K	6.8μH	1	
L3053	VLQEL05F330K	33μH	1	
L3054	VLQEL05F680K	68μH	1	
L3055	VLQEL05F101K	100μH	1	
L3056	VLQEL05F680K	68μH	1	
L3057	VLQEL05F180K	18μH	1	
		Filter		
FL3001	VLF0188		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Crystal Oscillator		
X3001	VSX0099		1	
		Switch		
S3001	VSS0095		1	
		(Audio Section)		
		Integrated Circuits		
IC4001	TA7355P		1	
IC4002	uPC1514CA		1	
IC4101	AN6262		1	
		Transistors		
Q4001	2SD639		1	(R)
Q4002	2SD655		1	(E) or (F)
Q4101	2SB745		1	(R,S,T)
Q4102	2SD636		1	(P,Q,R,S,T)
Q4105	2SD636		1	(P,Q,R,S,T)
Q4106	2SD639		1	(R)
Q4107	2SD655		1	(E,F)
		Combination Circuits		
		(Transistor & Resistor)		
QR4103,4104	DTC124A		2	or UN1212
		Diodes		
D4101,4102	MA165		2	
		Resistors		
R4001	ERDS2TJ104	100K	1	
R4002	ERDS2TJ331	330	1	
R4003	ERDS2TJ124	120K	1	
R4004	ERDS2TJ332	3.3K	1	
R4005	ERDS2TJ100	10	1	
R4006	EVN61AA00B13	Variable 1K	1	
R4007	ERDS2TJ103	10K	1	
R4008	ERDS2TJ473	47K	1	
R4009	ERDS2TJ222	2.2K	1	
R4011	ERDS2TJ123	12K	1	
R4012	ERDS2TJ103	10K	1	
R4013	ERDS1TJ335S	1/2W 3.3M	1	
R4014	ERDS2TJ221	220	1	
R4015	ERDS2TJ472	4.7K	1	
R4016	ERDS2TJ182	1.8K	1	
R4017	ERDS2TJ153	15K	1	
R4018	EVN61AA00B15	Variable 100K	1	
R4019	ERDS2TJ223	22K	1	
R4021	ERDS2TJ102	1K	1	
R4023	ERDS2TJ561	560	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R4101	ERDS2TJ472	4.7K	1	
R4102	ERDS2TJ104	100K	1	
R4103	ERDS2TJ333	33K	1	
R4104	ERDS2TJ104	100K	1	
R4105	ERDS2TJ221	220	1	
R4106	ERDS2TJ223	22K	1	
R4107	ERDS2TJ103	10K	1	
R4108	ERDS2TJ473	47K	1	
R4109	ERDS2TJ332	3.3K	1	
R4112	EVK06F025B53	Variable 5K	1	
R4113	ERDS2TJ102	1K	1	
R4114	ERDS2TJ332	3.3K	1	
R4115	ERDS2TJ562	5.6K	1	
R4116	ERDS2TJ102	1K	1	
R4117	ERDS2TJ332	3.3K	1	
R4118	ERDS2TJ562	5.6K	1	
R4119,4120	ERDS2TJ102	1K	2	
R4121	ERDS2TJ224	220K	1	
R4122	ERDS2TJ223	22K	1	
R4123	ERDS2TJ473	47K	1	
R4124	ERDS2TJ223	22K	1	
R4125	ERDS2TJ333	33K	1	
R4126	ERDS2TJ102	1K	1	
R4128	ERDS2TJ102	1K	1	
R4129	ERDS2TJ473	47K	1	
		Capacitors		
C4001	ECEA1CK100	Electrolytic 16V 10	1	
C4002	ECEA1AU221	Electrolytic 10V 220	1	or ECA1AS221
C4003	ECQB1H102KH	Mylar 50V 1000P	1	
C4004	ECEA1CK100	Electrolytic 16V 10	1	
C4005	ECEA1AK330	Electrolytic 10V 33	1	
C4006	ECQB1H333KH	Mylar 50V 0.033	1	
C4008	ECEA1HK010	Electrolytic 50V 1	1	
C4009	ECEA1AK330	Electrolytic 10V 33	1	
C4010	ECEA1CK100	Electrolytic 16V 10	1	
C4011	ECEA0JK470	Electrolytic 6.3V 47	1	
C4012	ECQM1H223KH	Mylar 50V 0.022	1	
C4013	VCYG1E153KX	Semiconductor 25V 0.015	1	
C4014	BCKF1H4722F	Ceramic 50V 4700P	1	
C4015	ECQF622ZK2	Mylar 630V 2200P	1	
C4016	ECEA1CK100	Electrolytic 16V 10	1	
C4017	ECCD2H181K	Ceramic 500V 180P	1	
C4018	ECQV1H683J2	Mylar 50V 0.068	1	
C4019	ECEA1CU101	Electrolytic 16V 100	1	or ECA1CS101
C4020	ECEA1CU221	Electrolytic 16V 220	1	or ECA1CS221
C4021	ECQB1H103KH	Mylar 50V 0.01	1	
C4022	ECQB1H273KH	Mylar 50V 0.027	1	
C4023	ECQB1H103KH	Mylar 50V 0.01	1	
C4101	ECEA1CK100	Electrolytic 16V 10	1	
C4102	ECEA1CU101	Electrolytic 16V 100	1	or ECA1CS101
C4103	ECKF1H102KB	Ceramic 50V 1000P	1	
C4104	ECEA1AK330	Electrolytic 10V 33	1	
C4105	ECEA1CK100	Electrolytic 16V 10	1	
C4106	ECEA1EN3R3	Electrolytic 25V 3.3	1	
C4107	ECQB1H153JH	Mylar 50V 0.015	1	
C4108	VCYG1E153KR	Semiconductor 25V 0.015	1	
C4109	ECQM2223KZ	Mylar 200V 0.022	1	
C4110	VCYG1E333KR	Semiconductor 25V 0.033	1	
C4111	ECEA16Z10	Electrolytic 16V 10	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Coils		
L4001	VTQ0014	10mH	1	
L4002	VLQEL05F471K	470μH	1	
L4003,4004	VTQ0014	10mH	2	
L4101	VLQEL06F471K	470μH	1	
		Transformers		
T4101	EIQ7QF002B		1	or VLT0202
T4102	EIQ7QF003B		1	or VLT0201
		(System Control Section)		
		Integrated Circuits		
IC6001	MN15342VGC 3		1	
IC6002,6003	BA6209		2	
IC6004	AN6914		1	
		Transistors		
Q6001,6002	2SD636		2	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
Q6003	2SB819		1	(R,S)
Q6005	2SA719		1	(R,S)
Q6006	2SB641		1	(P,Q,R,S)
				or 2SA937M (Q,R,S)
Q6007	2SA719		1	(P,Q,R,S)
Q6008	2SB641		1	(P,Q,R,S)
				or 2SA937M(Q,R,S)
Q6009	2SA719		1	(P,Q,R,S)
Q6012	2SD636		1	(P,Q,R,S,T)
		Combination Circuits		
		(Transistor & Resistor)		
QR6001	DTC124A		1	or UN1212
QR6002,6003	DTC114A		2	or UN1211
QR6004	DTC114A		1	or UN1211
QR6005,6006	DTC124A		2	or UN1112
QR6008	DTA124A		1	or UN1112
QR6012,6013	DTC144A		2	or UN1213
		Diodes		
D6005	MA165		1	
D6007,6008	MA165		2	
D6011-6016	MA165		6	
D6022	MA165		1	
D6024	MA165		1	
D6029,6030	MA165		2	
D6039	MA165		1	
D6043	MA154WK		1	
D6055-6057	MA165		3	
D6058,6059	MA165		2	NV-850E/EC
D6060,6061	MA165		2	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Resistors		
R6001	ERG1ANJ680	Metal 1W 68	1	
R6002	ERDS2TJ220	22	1	
R6003	ERDS2TJ681	680	1	
R6004	ERDS2TJ332	3.3K	1	
R6005,6006	ERDS2TJ681	680	2	
R6007	ERDS2TJ332	3.3K	1	
R6008,6009	ERDS2TJ103	10K	2	
R6010	ERDS2TJ152	1.5K	1	
R6011	ERDS2TJ102	1K	1	
R6012	ERDS2TJ682	6.8K	1	
R6013	ERDS2TJ563	56K	1	
R6014	ERDS2TJ222	2.2K	1	
R6015	ERDS2TJ153	15K	1	
R6016	ERDS2TJ103	10K	1	
R6017	ERDS2TJ333	33K	1	
R6019	ERDS2TJ103	10K	1	
R6021	ERDS2TJ105	1M	1	
R6022	ERDS2TJ474	470K	1	
R6023	ERQS2CKG2261	Metal 2260	1	
R6024	ERQS2CKG1542	Metal 15.4K	1	
R6025	ERQS2CKG1212	Metal 12.1K	1	
R6026	ERDS2TJ103	10K	1	
R6027	ERDS2TJ562	5.6K	1	
R6028	ERDS2TJ682	6.8K	1	
R6029	ERDS2TJ103	10K	1	
R6030	ERDS2TJ152	1.5K	1	
R6033	ERDS2TJ682	6.8K	1	
R6034	ERDS2TJ562	5.6K	1	
R6035	ERDS2TJ332	3.3K	1	
R6036	ERDS2TJ682	6.8K	1	
R6037	ERDS2TJ562	5.6K	1	
R6038,6039	ERDS2TJ103	10K	2	
R6040,6041	ERDS2TJ105	1M	2	
R6043	ERDS2TJ332	3.3K	1	
R6047	ERDS2TJ333	33K	1	
R6048	ERDS2TJ560	56	1	
R6050	ERDS2TJ391	390	1	
R6051	ERDS2TJ333	33K	1	
R6052	ERDS2TJ223	22K	1	
R6053	ERDS2TJ182	1.8K	1	
R6054	ERDS2TJ223	22K	1	
R6055	ERDS2TJ822	8.2K	1	
R6056-6059	ERDS2TJ223	22K	4	
R6068,6069	ERDS2TJ223	22K	2	
R6070	ERDS2TJ562	5.6K	1	
R6077	ERDS2TJ682	6.8K	1	
R6078	ERDS2TJ333	33K	1	
R6081	ERDS2TJ123	12K	1	
R6082	ERDS2TJ473	47K	1	
R6083	ERDS2TJ222	2.2K	1	
R6085	ERDS2TJ683	68K	1	NV-850E/EG
R6086	ERDS2TJ332	3.3K	1	NV-850E/EG
		Capacitors		
C6001	ECQB1H472KH	Mylar 50V 4700P	1	
C6002	ECKF1H681KB	Ceramic 50V 680P	1	
C6003,6004	ECKF1H103ZF	Ceramic 50V 0.01	2	
C6005	ECEA0JK101	Electrolytic 6.3V 100	1	
C6006	ECKF1H221KB	Ceramic 50V 220P	1	
C6007	ECEA1HK0R1	Electrolytic 50V 0.1	1	
C6008	ECKF1H103ZF	Ceramic 50V 0.01	1	
C6009	ECEA0JK470	Electrolytic 6.3V 47	1	

Ref. No.	Part No.	Part Name & Description			Pcs / Set	Remarks
C6010	ECQB1H682JH	Mylar	50V	6800P	1	
C6011	ECQV1H184JZ	Mylar	50V	0.18	1	
C6012-6014	ECKF1H103ZF	Ceramic	50V	0.01	3	
C6015,6016	ECCF1H330JC	Ceramic	50V	33P	2	
C6019	ECKF1H103ZF	Ceramic	50V	0.01	1	
C6022,6023	ECQV1H104JZ	Mylar	50V	0.1	2	
C6024	ECEA1EK330	Electrolytic	25V	33	1	
C6029	ECEA1EK3R3	Electrolytic	25V	3.3	1	
C6030	ECEA0JK101	Electrolytic	6.3V	100	1	
C6031	ECEA1CK100	Electrolytic	16V	10	1	
		Crystal Oscillator				
X6001	VSK0082				1	
		(Chrominance Section)				
		P.C.B. Ass'y				
IC8001	VEPC007				1	
		Integrated Circuit				
IC8002	BA7025L				1	NV-850EG
		Transistors				
Q8001	2SB641				1	(P,Q,R,S,T)
						or 2SA937M(Q,R,S)
Q8003,8004	2SD636				2	(P,Q,R,S,T)
						or 2SC2021M(Q,R,S,E)
Q8006	2SD636				1	(P,Q,R,S,T)
						or 2SC2021M(Q,R,S,E)
Q8007	2SD636				1	(P,Q,R,S,T)
						or 2SC2021M(Q,R,S,E)
						NV-850EG
Q8008,8009	2SD636				2	(P,Q,R,S,T)
						or 2SC2021M(Q,R,S,E)
		Combination Cricuit				
		(Transistor & Resistor)				
QR8002	DTC124A				1	or UN1212 NV-850EG
QR8003,8004	DTC144A				2	or UN1213
		Diodes				
D8001	MA165				1	
D8002	MA165				1	NV-850EG
		Resistors				
R8001	ERDS2TJ272	2.7K			1	

Ref. No.	Part No.	Part Name & Description			Pcs / Set	Remarks
R8003	ERDS2TJ102	1K			1	
R8004	ERDS2TJ471	470			1	
R8005	ERDS2TJ222	2.2K			1	
R8006	ERDS2TJ103	10K			1	
R8007	ERDS2TJ105	1M			1	
R8009	ERDS2TJ182	1.8K			1	
R8010	ERDS2TJ562	5.6K			1	
R8011	ERDS2TJ272	2.7K			1	
R8012,8013	ERDS2TJ103	10K			2	
R8014	ERDS2TJ221	220			1	NV-850EG
R8015	ERDS2TJ102	1K			1	
R8016	ERDS2TJ101	100			1	
R8017	ERDS2TJ102	1K			1	
R8018	ERDS2TJ562	5.6K			1	
R8019	ERDS2TJ822	8.2K			1	
R8020	ERDS2TJ271	270			1	
R8021	ERDS2TJ122	1.2K			1	
R8022	ERDS2TJ393	39K			1	
R8023	ERDS2TJ333	33K			1	
R8024	ERDS2TJ471	470			1	
R8025	ERDS2TJ332	3.3K			1	NV-850EG
R8026	ERDS2TJ122	1.2K			1	NV-850EG
R8027	ERDS2TJ272	2.7K			1	NV-850EG
R8028,8029	ERDS2TJ103	10K			2	NV-850EG
R8030	ERDS2TJ390	39			1	NV-850EG
R8031	ERDS2TJ222	2.2K			1	NV-850EG
R8032	ERDS2TJ154	150K			1	NV-850EG
R8033	ERDS2TJ223	22K			1	NV-850EG
R8034	ERDS2TJ102	1K			1	NV-850EG
R8035	ERDS2TJ470	47			1	
R8036	ERDS2TJ104	100K			1	
R8037,8038	ERDS2TJ562	5.6K			2	
R8040	ERDS2TJ152	1.5K			1	
R8041	ERDS2TJ102	1K			1	
R8042	ERDS2TJ822	8.2K			1	
R8043	ERDS2TJ333	33K			1	
R8044	ERDS2TJ473	47K			1	
R8045	ERDS2TJ392	3.9K			1	
		Capacitors				
C8001	ECKF1H221KB	Ceramic	50V	220P	1	
C8002	ECCF1H270JC	Ceramic	50V	27P	1	
C8003	ECKF1H472ZF	Ceramic	50V	4700P	1	
C8004	ECEA1CK470	Electrolytic	16V	47	1	
C8005	ECKF1H102KB	Ceramic	50V	1000P	1	
C8006	ECQB1H223KH	Mylar	50V	0.022	1	
C8007	ECEA1OZ100	Electrolytic	10V	10	1	
C8008	ECKF1H1032F	Ceramic	50V	0.01	1	
C8009	ECKF1H471KB	Ceramic	50V	470P	1	
C8010	VCYG1E103KR	Semiconductor	25V	0.01	1	
C8011	ECQV1H154JZ	Mylar	50V	0.15	1	
C8012	ECKF1H681KB	Ceramic	50V	680P	1	NV-85EG
C8013	ECEA1CK100	Electrolytic	16V	10	1	
C8014	ECEA0JK470	Electrolytic	6.3V	47	1	
C8015	ECKF1H103ZF	Ceramic	50V	0.01	1	
C8016	ECEA0JK470	Electrolytic	6.3V	47	1	
C8017	ECKF1H1032F	Ceramic	50V	0.01	1	NV-85EG
C8018	ECKF1H102KB	Ceramic	50V	1000P	1	NV-85EG
C8019	ECEA1AK330	Electrolytic	10V	33	1	NV-85EG
C8020	ECKF1H102KB	Ceramic	50V	1000P	1	NV-85EG
C8021	ECQV1H563JZ	Mylar	50V	0.056	1	NV-85EG
C8022	ECEA1AK330	Electrolytic	10V	33	1	NV-85EG

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C8023	ECEA0JK470	Electrolytic 6.3V 47	1	NV-850EG
C8024	ECEA1CK100	Electrolytic 16V 10	1	
C8025	ECQV1H104JZ	Mylar 50V 0.1	1	
C8026	ECKF1H103ZF	Ceramic 50V 0.01	1	
C8027	ECCF1H050CC	Ceramic 50V 5P	1	
C8028,8029	VCYG1C104MR1	Semiconductor 16V 0.1	2	
C8030	VCYG1C104MR1	Semiconductor 16V 0.1	1	NV-850EG
C8031	ECKF1H471KB	Ceramic 50V 470P	1	
C8032	ECKF1H821KB	Ceramic 50V 820P	1	
C8033	ECQV1H154JZ	Mylar 50V 0.15	1	
C8034	ECQB1H103KH	Mylar 50V 0.01	1	
		Coils		
L8001	VLQEL05F270K	27μH	1	
L8002	VLQEL05F470K	47μH	1	
L8003	VLQEL05F331K	330μH	1	
L8004	VLQEL05F681K	680μH	1	
L8005	VLQEL05F101K	100μH	1	
L8006	VLQEL05F681K	680μH	1	
L8008	VLQEL05F150K	15μH	1	
L8009	ELM7Q207A		1	NV-850EG
L8010	VLQEL05F101K	100μH	1	NV-850EG
L8011	VLQEL05F151K	150μH	1	
L8012	VLQEL05F470K	47μH	1	
L8013	VLQEL05F681K	680μH	1	
		Combination Circuits		
		(Capacitor & Resistor)		
CR8001	EXEPB20K332C	82P, 3.3K	1	
CR8002	EXED103M821C	0.01,820	1	
		Delay Line		
DL8001	EFDBR124A13B		1	
		Filters		
FL8001	VLF0299		1	
FL8002	VLF0143		1	NV-850EG
		Crystal Oscillator		
XC8001	VSX0129A		1	or VSX0129B
		Connectors		
JSA,JSB, JSC,JSD	VJS1180	5P	4	
		Miscellaneous		
	VGU1027	VR Knob	3	
	VJF0022	Wire Saddle (Large)	1	
	VJF0052	Binder	4	
	VJJ0106	Mic Jack	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	VEP05053A	Head Amp & Luminance (2)		
		P.C. Board Unit		
		P.C.B. Ass'y		
IC3501	VEFY005		1	
		Integrated Circuit		
IC3502	AN6326N		1	
		Transistors		
Q3501	2SC2377		1	(C,D)
Q3502,3503	2SC2206		2	(A,B,C)
Q3504	2SB641		1	(P,Q,R,S,T)
				or 2SA937M(Q,R,S)
Q3505-3508	2SC2206		4	(A,B,C)
Q3509	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
Q3550	2SD661		1	
Q3551,3552	2SC2377		2	(C,D)
Q3562	2SC2206		1	(A,B,C)
		Diodes		
D3501	MA165		1	
D3502	RD3.3EB	Zener	1	
D3550,3551	MA165		2	
		Resistors		
R3501	ERDS2TJ102	1K	1	
R3502	ERDS2TJ152	1.5K	1	
R3503	ERDS2TJ471	470	1	
R3504	ERDS2TJ681	680	1	
R3505	ERDS2TJ122	1.2K	1	
R3508	ERDS2TJ102	1K	1	
R3509	ERDS2TJ154	150K	1	
R3510	ERDS2TJ152	1.5K	1	
R3511	ERDS2TJ392	3.9K	1	
R3512	ERDS2TJ331	330	1	
R3513	ERDS2TJ104	100K	1	
R3514	ERDS2TJ472	4.7K	1	
R3515	ERQS2CKG1601	Metal 1.6K	1	
R3516	ERDS2TJ222	2.2K	1	
R3517	ERDS2TJ104	100K	1	
R3518	ERDS2TJ122	1.2K	1	
R3519	ERDS2TJ123	12K	1	
R3521	EVN61AA00B13	Variable 1K	1	
R3522	ERDS2TJ471	470	1	
R3523	ERQS2CKG4700	Metal 470	1	
R3524	ERDS2TJ682	6.8K	1	
R3525	ERDS2TJ122	1.2K	1	
R3526	ERQS2CKG1201	Metal 1.2K	1	
R3527	ERQS2CKG2200	Metal 220	1	
R3528	ERDS2TJ100	10	1	
R3529	ERDS2TJ682	6.8K	1	
R3530,3531	ERDS2TJ560	56	2	
R3532	ERDS2TJ100	10	1	
R3533	ERDS2TJ122	1.2K	1	
R3534	ERDS2TJ820	82	1	
R3535	ERDS2TJ124	120K	1	

Ref. No.	Part No.	Part Name & Description			Pcs / Set	Remarks
R3536-3539	ERDS2TJ152			1.5K	4	
R3540	ERDS2TJ391			390	1	
R3541	ERDS2TJ102			1K	1	
R3542	ERDS2TJ561			560	1	
R3543,3544	ERDS2TJ102			1K	2	
R3545	ERDS2TJ152			1.5K	1	
R3546	ERDS2TJ391			390	1	
R3547	ERDS2TJ122			1.2K	1	
R3548,3549	ERDS2TJ102			1K	2	
R3550,3551	ERDS2TJ103			10K	2	
R3552,3553	EVN3ACA00B13	Variable		1K	2	
R3554,3555	ERDS2TJ123			12K	2	
R3556	EVN3ACA00B13	Variable		1K	1	
R3557	ERDS2TJ562			5.6K	1	
R3558	ERDS2TJ270			27	1	
R3570	ERDS2TJ102			1K	1	
R3571,3572	ERDS2TJ681			680	2	
R3573,3574	ERDS2TJ561			560	2	
R3575	EVN61AA00B23	Variable		2K	1	
		Capacitors				
C3501	ECEA1EK4R7	Electrolytic	25V	4.7	1	
C3502	ECEA1HKNR47	Electrolytic	50V	0.47	1	
C3503	ECEA1HK010	Electrolytic	50V	1	1	
C3504	ECEA0JK101	Electrolytic	6.3V	100	1	
C3505	ECCF1H120KC	Ceramic	50V	12P	1	
C3506	ECEA0JK470	Electrolytic	6.3V	47	1	
C3507	ECEA1HK2R2	Electrolytic	50V	2.2	1	
C3508	VCYG1E103KR	Semiconductor	25V	0.01	1	
C3509	ECEA0JK101	Electrolytic	6.3V	100	1	
C3510	ECKF1H181KB	Ceramic	50V	180P	1	
C3511-3513	ECEA1HK010	Electrolytic	50V	1	3	
C3514	ECEA1EK4R7	Electrolytic	25V	4.7	1	
C3515	ECEA1HK2R2	Electrolytic	50V	2.2	1	
C3516	ECKF1H151KB	Ceramic	50V	150P	1	
C3517	ECKF1H122KB	Ceramic	50V	1200P	1	
C3520	ECCF1H120KC	Ceramic	50V	12P	1	
C3521	VCYG1E103KR	Semiconductor	25V	0.01	1	
C3522	ECEA1CK470	Electrolytic	16V	47	1	
C3523	ECCF1H820KC	Ceramic	50V	82P	1	
C3524	ECKF1H181KB	Ceramic	50V	180P	1	
C3525	VCYG1E333KF	Semiconductor	25V	0.033	1	
C3526,3527	VCYG1C104MR1	Semiconductor	16V	0.1	2	
C3528	ECKF1H103ZF	Ceramic	50V	0.01	1	
C3529	ECEA50Z1	Electrolytic	50V	1	1	
C3530	ECEA1CK100	Electrolytic	16V	10	1	
C3531	ECEA1HK010	Electrolytic	50V	1	1	
C3532	ECEA1CK100	Electrolytic	16V	10	1	
C3533	VCYG1C104MR1	Semiconductor	16V	0.1	1	
C3534	ECQV1H104JZ	Mylar	50V	0.1	1	
C3535	ECCF1H120KC	Ceramic	50V	12P	1	
C3536	VCYG1C104MR1	Semiconductor	16V	0.1	1	
C3537	ECEA1CK100	Electrolytic	16V	10	1	
C3538	ECEA0JK470	Electrolytic	6.3V	47	1	
C3539	ECKF1H151KB	Ceramic	50V	150P	1	
C3540	VCYG1E103KR	Semiconductor	25V	0.01	1	
C3541	ECKF1H271KB	Ceramic	50V	270P	1	
C3542	VCKG1E431JA	Semiconductor	25V	430P	1	
C3543	ECCF1H560KC	Ceramic	50V	56P	1	
C3544	ECCF1H180KC	Ceramic	50V	18P	1	
C3545	VCYG1E103KR	Semiconductor	25V	0.01	1	
C3546	ECEA0JK470	Electrolytic	6.3V	47	1	

Ref. No.	Part No.	Part Name & Description			Pcs / Set	Remarks
C3547	ECEA0JK330	Electrolytic	6.3V	33	1	
C3548	ECQB1H333KH	Mylar	50V	0.033	1	
C3549	ECCF1H560KC	Ceramic	50V	56P	1	
C3551	VCYG1C104MR	Semiconductor	16V	0.1	1	
C3554-3556	ECV1ZW40X64T	Trimmer	500V	40P	3	
C3568	ECEA0JK470	Electrolytic	6.3V	47	1	
C3569	VCKG1E391JA	Semiconductor	25V	390P	1	
C3570	VCYG1E103KR	Semiconductor	25V	0.01	1	
C3573	ECQV1H154JZ	Mylar	50V	0.15	1	
C3574	ECKF1H102ZF	Ceramic	50V	1000P	1	
C3576	ECQV1H104JZ	Mylar	50V	0.1	1	
C3577	ECCF1H150JC	Ceramic	50V	15P	1	
C3578	ECQV1H104JZ	Mylar	50V	0.1	1	
C3579	ECQV1H274JZ	Mylar	50V	0.27	1	
C3580	ECCF1H060CC	Ceramic	50V	6P	1	
C3581	ECCF1H120KC	Ceramic	50V	12P	1	
C3582,3583	ECQV1H104JZ	Mylar	50V	0.1	2	
		Coils				
L3501-3503	VLQEL05F101K			100μH	3	
L3504	VLQEL05F820K			82μH	1	
L3505	VLQEL05F151K			150μH	1	
L3506-3508	VLQEL05F101K			100μH	3	
L3509	VLQEL05F102K			1mH	1	
L3510	VLQEL05F180K			18uH	1	
L3512	VLQEL05F151K			150uH	1	
L3513	VLQEL05F471K			470uH	1	
L3514	VLQFL05F390K			39μH	1	
L3515,3516	VLQ0127			2.2μH	2	
L3550,3551	VLQEL05F150K			15μH	2	
L3565	VLQEL05F101K			100μH	1	
L3566	VLQEL05F2R2K			2.2μH	1	
		Combination Circuits				
		(Capacitor & Resistor)				
CR3501	EXEC390K222C			39P, 2.2K	1	
CR3503	EXED561K561C			560P, 560	1	
CR3504	EXED103Z682C			0.01, 6.8K	1	
		Delay Line				
DL3501	EFDVN645A43D				1	
		Filters				
FL3501	VLF0186				1	
FL3502	VLF0187				1	
		Relay				
RY3550	VSY1019				1	or VSL 022

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Connector		
P3501	VJP1229	2P	1	
		Miscellaneous		
	VGQ0474	Spacer	1	
	VJF0035	Wire Saddle	1	
	VSC1058	Shield Case (Top)	1	
	VSC1059	Shield Case (Middle)	1	
	VSC1060	Shield Case (Bottom)	1	
	VEP06212A	Operation P.C. Board Unit		
		Integrated Circuits		
IC6501	MN1450BVG		1	
IC6502,6503	BA668A		2	
		Transistors		
Q6501	2SB642		1	
Q6502–6504	2SD637		3	
		Combination Circuit		
		(Transistor & Resistor)		
QR6501,6502	DTC144A		2	or UN1213
		Diodes		
D6501	LN81RCPHL	LED	1	
D6502,6503	MA165		2	
D6504	RD7.5EB3	Zener	1	
D6506,6507	MA165		2	
D6508	MA165		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Resistors		
R6501	ERDS2TJ391	390	1	
R6502	ERDS2TJ301	300	1	
R6503	ERDS2TJ681	680	1	
R6504	ERDS2TJ122	1.2K	1	
R6505	ERDS2TJ272	2.7K	1	
R6506	ERDS2TJ472	4.7K	1	
R6507	ERDS2TJ822	8.2K	1	
R6508	ERDS2TJ183	18K	1	
R6510	ERDS2TJ333	33K	1	
R6511	ERDS2TJ623	62K	1	
R6512	ERDS2TJ152	1.5K	1	
R6515	EVN3ACA00B14	Variable 10K	1	
R6516	ERDS2TJ103	10K	1	
R6517	ERDS2TJ563	56K	1	
R6518	ERDS2TJ560	56	1	
R6519	ERDS2TJ104	100K	1	
R6520,6521	ERDS2TJ330	33	2	
R6522	ERDS2TJ223	22K	1	
R6523	ERDS2TJ103	10K	1	
R6524	ERDS2TJ223	22K	1	
R6527	ERDS2TJ223	22K	1	
R6528	ERDS2TJ473	47K	1	
R6529	ERDS2TJ223	22K	1	
R6530,6531	ERDS2TJ473	47K	2	
R6532	ERDS2TJ223	22K	1	
R6533	ERDS2TJ561	560	1	
R6534	ERDS2TJ394	390K	1	
R6536	ERDS2TJ683	68K	1	
R6537	ERDS2TJ561	560	1	
R6538	ERDS2TJ394	390K	1	
R6539	ERDS2TJ822	8.2K	1	
R6540	ERDS2TJ273	27K	1	
R6541	ERDS2TJ822	8.2K	1	
R6542	ERDS2TJ273	27K	1	
R6546	ERDS2TJ562	5.6K	1	
R6547	ERDS2TJ104	100K	1	
R6548	ERDS2TJ103	10K	1	
R6549,6550	ERDS2TJ471	470	2	
R6551	ERDS2TJ152	1.5K	1	
		Capacitors		
C6501	ECEA1HK010	Electrolytic 50V 1	1	
C6502	ECCF1H470JU	Ceramic 50V 47P	1	
C6503	ECKF1H1032F	Ceramic 50V 0.01	1	
C6504–6506	ECEA1CK100	Electrolytic 16V 10	3	
C6507	ECEA1HK4R7	Electrolytic 50V 4.7	1	
C6508,6509	ECEA1CK100	Electrolytic 16V 10	2	
C6510	ECEA1HK4R7	Electrolytic 50V 4.7	1	
C6511	ECEA1HK010	Electrolytic 50V 1	1	
C6512	ECEA1HKNR47	Electrolytic 50V 0.47	1	
C6513	ECEA0JK101	Electrolytic 6.3V 100	1	
C6514	VCYG1E104MR1	Semiconductor 25V 0.1	1	
C6515,6516	ECKF1H1032F	Ceramic 50V 0.01	2	
C6517	ECEA1HK010	Electrolytic 50V 1	1	
C6518,6519	ECKF1H103ZF	Ceramic 50V 0.01	2	
			1	
		Display Tubes		
DP6502	VSL0031		1	
DP6506	VSL0030		1	
		Switches		
S6502–6508	EVQQS307K		7	
S6510–6513	EVQQS307K		4	
S6514	ESD14307		1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
S6515,6516		EVQQS307K		2	
			Connectors		
P6501		VJP1236	9P	1	
P6502-6505		VJP1230	3P	4	
			Miscellaneous		
		KL04	LED Spacer	1	
		VJF0052	Binder	2	
		VJF0172	Display Tube Holder	2	(For DP6506)
		VJF0183	Level Meter Display Tube Holder	2	(For DP6502)
		VQL322	Spacer	1	
		VEP07186G/H	TV Demodulator P.C. Board Unit		NV-850E/B
			Integrated Circuits		
IC701		BN5115		1	VIF IC
IC751		AN5215		1	SIF IC
			Transistors		
Q701		2SD636		1	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
Q702		2SB641		1	(Q,R,S,T)
					or 2SA564(Q,R,S,T)
Q703		2SD636		1	(S,T) or 2SD637(S,T)
Q707,708		2SD636		2	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
					NV-850B
Q709.		2SA564A		1	(Q,R,S,T)
					or 2SA733(K,P,Q)
					NV-850B
Q710		2SD636		1	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
					NV-850B
Q7006		2SD636		1	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
			Diodes		
D701,702		MA165		2	NV-850E

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
D703		MA165				1	
D705		10E1				1	or ERB1201G1
			Resistors				
R701		ERDS2TJ222			2.2K	1	
R702		EVN50AA00B23	Variable		2K	1	
R703		ERDS2TJ472			4.7K	1	
R704		ERDS2TJ392			3.9K	1	NV-850E
R705		EVN50AA00B23	Variable		2K	1	NV-850E
R706		ERDS2TJ222			2.2K	1	NV-850E
R707		ERDS2TJ393			39K	1	
R708		ERDS2TJ473			47K	1	
R711		ERDS2TJ274			270K	1	
R712		ERDS2TJ183			18K	1	
R713		ERDS2TJ392			3.9K	1	
R714		ERDS2TJ102			1K	1	
R715		ERDS2TJ391			390	1	
R716		ERDS2TJ561			560	1	
R717		ERDS2TJ102			1K	1	
R719		ERDS2TJ561			560	1	
R722		ERDS2TJ183			18K	1	
R723		ERDS2TJ562			5.6K	1	
R724		EROS2CKG8200	Metal		820	1	
R725		ERDS2TJ470			47	1	
R726		ERDS2TJ680			68	1	
R727		EROS2CKG1001	Metal		1K	1	
R728		EVN50AA0B14	Variable		10K	1	
R731		ERDS2TJ680			68	1	
R732		ERDS2TJ102			1K	1	
R733		ERDS2TJ270			27	1	
R734		ERDS2TJ332			3.3K	1	
R735		ERDS2TJ272			2.7K	1	
R738		ERDS2TJ561			560	1	
R740		ERDS2TJ103			10K	1	
R743		ERDS2TJ473			47K	1	NV-850B
R744-747		ERDS2TJ223			22K	4	NV-850B
R748		ERDS2TJ472			4.7K	1	NV-850B
R749		ERDS2TJ682			6.8K	1	NV-850B
R752		ERD2FCG220	Fuse Resistor		22	1	⚠
R754		ERDS2TJ681			680	1	
R755		EVN50AA00B24	Variable		20K	1	
R756		ERDS2TJ102			1K	1	
R761		ERDS2TJ102			1K	1	NV-850B
R762		ERDS2TJ271			270	1	NV-850B
R763		ERDS2TJ104			100K	1	NV-850B
R764		ERDS2T223			22K	1	NV-850B
R790		ERDS2TJ750			75	1	
R791		ERDS2TJ102			1K	1	
R7014		ERDS2TJ102			1K	1	
R7015		ERDS2TJ103			10K	1	
			Capacitors				
C701		ECEA1CK220	Electrolytic	16V	22	1	
C702		ECEA1CK100	Electrolytic	16V	10	1	
C703		ECKF1H103ZF	Ceramic	50V	0.01	1	NV-850E
C704		ECEA1CK330	Electrolytic	16V	33	1	NV-850E
C705		ECEA50ZR68	Electrolytic	50V	0.68	1	
C706		ECEA1CK330	Electrolytic	16V	33	1	
C707,708		ECKF1H103ZF	Ceramic	50V	0.01	2	
C709		ECQV1H224JZ	Mylar	50V	0.22	1	

Ref. No.	Part No.	Part Name & Description			Pcs / Set	Remarks
C710	ECKF1H103ZF	Ceramic	50V	0.01	1	
C711,712	ECCF1H030CC	Ceramic	50V	3P	2	
C713	ECCF1H121JP	Ceramic	50V	120P	1	
C714	ECCF1H220JC	Ceramic	50V	22P	1	
C715,716	ECKF1H103ZF	Ceramic	50V	0.01	2	
C717	ECCF1H150JC	Ceramic	50V	15P	1	
C718	ECCF1H560JR	Ceramic	50V	56P	1	
C719	ECEA50Z1	Electrolytic	50V	1	1	
C720	ECKF1H103ZF	Ceramic	50V	0.01	1	
C721	ECEA1CK470	Electrolytic	16V	47	1	
C723	ECEA1EKN4R7	Electrolytic	25V	4.7	1	
C724	ECCF1H150JC	Ceramic	50V	15P	1	
C726	ECCF1H680JC	Ceramic	50V	68P	1	
C727	ECCF1H220JR	Ceramic	50V	22P	1	
C730	ECCF1H390JC	Ceramic	50V	39P	1	NV-850E
C731	ECQB1H103KH	Mylar	50V	0.01	1	
C732	ECKF1H103ZF	Ceramic	50V	0.01	1	
C733	ECCF1H151J	Ceramic	50V	150P	1	
C734	ECKF1H103ZF	Ceramic	50V	0.01	1	
C737	ECEA1CK220	Electrolytic	16V	22	1	
C739	ECKF1H103ZF	Ceramic	50V	0.01	1	
C743	ECQB1H103KH	Mylar	50V	0.01	1	
C745	ECKF1H103ZF	Ceramic	50V	0.01	1	NV-850B
C746	ECEA1CK220	Electrolytic	16V	22	1	
C747	ECKF1H103ZF	Ceramic	50V	0.01	1	NV-850B
C751	ECCF1H050CC	Ceramic	50V	5P	1	
C753	ECQV1H473JZ	Mylar	50V	0.047	1	
C754	ECEA1CU101	Electrolytic	16V	100	1	
C755	ECCF1H390JP	Ceramic	50V	39P	1	
C756	ECCF1H120JC	Ceramic	50V	12P	1	
C757	ECKF1H561KB	Ceramic	50V	560P	1	
C758	ECCF1H820JP	Ceramic	50V	82P	1	
C759	ECEA1CK100	Electrolytic	16V	10	1	
C761	ECQB1H103JH	Mylar	50V	0.01	1	
C791	ECQB1H273JH	Mylar	50V	0.027	1	
		Coils				
L701	VLQEL05F220K			22uH	1	
L703	VLQEL05F150K			15uH	1	
L704	VLQEL05F470K			47uH	1	
L705	VLQEL05F560K			56uH	1	
L706	VLQEL05F820K			82uH	1	
L707	VTQ0014			10mH	1	
		Transformers				
T701	EULHLB333				1	NV-850E
T701	EULHLB360				1	NV-850B
T702	EIH7A511	Sound Trap			1	
T703	EIV7E016F	Selective			1	
T704	EIV7E016E	AFC			1	
T751	EISE7E006A	SIF			1	
T752	EISE7E006B	Detect			1	
		Crystal Oscillators				
X702	EFCS5R5MS4	5.5MHz Filter			1	or VLF0178 NV-850E
X702	EFCS6R0MS4	6.0MHz Filter			1	or VLF0179 NV-850B
X703	EFCS5R5MW3	5.5MHz Trap			1	or VLF0182 NV-850E
X703	EFCS6R0MS4	6.0MHz Trap			1	or VLF0183 NV-850B

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Connectors		
P701	VJP1234	7P	1	
P702	VJP1229	2P	1	
P704	VJP1237	10P	1	
		Miscellaneous		
	TNV77759F2	Tuner	1	NV-850E ⚠
	TNV87359F2	Tuner	1	NV-850B ⚠
	VSC0742	Shield Case (Main)	1	
	VSC0743	Shield Case (Bottom)	1	
	VSC1052	Shield Case (Top)	1	
	VGQ0471	Top Spacer	1	
	VEP07193A	TV Demodulator P.C. Board Unit	1	NV-850E
		Integrated Circuits		
IC703	BN5115		1	
IC705	AN5130		1	
		Transistors		
Q703	2SD637		1	(Q,R,S,) or 2SC1815(Q,R,S,T)
Q704	2SC1687		1	
Q705	2SB642		1	(Q,R,S,) or 2SA564A(Q,R,S,T)
Q706	2SD636		1	(S,T) or 2SD637(S,T)
Q707	2SD637		1	(Q,R,S,) or 2SC1815(Q,R,S,T)
Q708	2SC1687		1	
		Diodes		
D702	MA165		1	
D704	MA165		1	
D709	MA165		1	
D710,711	1SS1		2	or ERB10-1G1
		Resistors		

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R710	ERDS2TJ103	10K	1	
R711	ERDS2TJ823	82K	1	
R712	ERDS2TJ103	10K	1	
R713	ERDS2TJ562	5.6K	1	
R714	EVM50AA00B23	Variable 2K	1	
R715	ERDS2TJ392	3.9K	1	
R716	ERDS2TJ562	5.6K	1	
R717	EVM50AA00B23	Variable 2K	1	
R718	ERDS2TJ562	5.6K	1	
R720	ERDS2TJ562	5.6K	1	
R721	ERDS2TJ821	820	1	
R722	ERDS2TJ470	47	1	
R723	ERDS2CKG1001	Metal 1K	1	
R724	ERDS2TJ103	10K	1	
R728	ERDS2TJ183	18K	1	
R729	ERDS2TJ225	2.2M	1	
R730	ERDS2TJ332	3.3K	1	
R731	ERDS2TJ470	47	1	
R732	ERDS2CKG8200	Metal 820	1	
R733	ERDS2TJ183	18K	1	
R734	ERDS2TJ562	5.6K	1	
R735	ERDS2TJ680	68	1	
R736	EVM50AA00B14	Variable 10K	1	
R737	ERDS2TJ102	1K	1	
R738	ERDS2TJ470	47	1	
R739	ERDS2TJ221	220	1	
R740	ERDS2TJ563	56K	1	
R741	ERDS2TJ102	1K	1	
R742	ERDS2TJ683	68K	1	
R743	ERDS2TJ122	1.2K	1	
R744	ERDS2TJ271	270	1	
R745	ERDS2TJ274	270K	1	
R747	ERDS2TJ822	8.2K	1	
R748	ERDS2TJ392	3.9K	1	
R749,750	ERDS2TJ562	5.6K	2	
R751	ERDS2TJ821	820	1	
R752	ERDS2TJ122	1.2K	1	
R755	ERDS2TJ392	3.9K	1	
R757	ERDS2TJ103	10K	1	
R760	ERDS2TJ152	1.5K	1	
R761	ERDS2TJ332	3.3K	1	
R762	ERDS2TJ471	470	1	
R763	ERDS2TJ750	75	1	
R765,766	ERDS2TJ221	220	2	
		Capacitors		
C704	ECEA1CK220	Electrolytic 16V 22	1	
C705	ECEA1CK100	Electrolytic 16V 10	1	
C706,707	ECKF1H1032F	Ceramic 50V 0.01	2	
C708	ECEA1CK330	Electrolytic 16V 33	1	
C709	ECQB1H103KH	Mylar 50V 0.01	1	
C710	ECEA50ZR68	Electrolytic 50V 0.68	1	
C711	ECKF1H1032F	Ceramic 50V 0.01	1	
C712	ECEA1CK330	Electrolytic 16V 33	1	
C713	ECCF1H150JC	Ceramic 50V 15P	1	
C714,715	ECKF1H1032F	Ceramic 50V 0.01	2	
C716	ECCF1H330JC	Ceramic 50V 33P	1	
C721-724	ECKF1H103ZF	Ceramic 50V 0.01	4	
C725	ECCF1H150JC	Ceramic 50V 15P	1	
C726	ECEA1HK010	Electrolytic 50V 1	1	
C727	ECEA1CU101	Electrolytic 16V 100	1	
C729	ECEA50Z1	Electrolytic 50V 1	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
C730	ECKF1H103ZF	Ceramic 50V 0.01	1	
C731	ECEA1EKN4R7	Electrolytic 25V 4.7	1	
C732	ECCF1H220JC	Ceramic 50V 22P	1	
C734	ECCF1H680JS	Ceramic 50V 68P	1	
C735	ECCF1H820JP	Ceramic 50V 82P	1	
C736	ECCF1H220JC	Ceramic 50V 22P	1	
C737,738	ECCF1H020CC	Ceramic 50V 2P	1	
C739	ECCF1H101J	Ceramic 50V 100P	1	
C740	ECKF1H103ZF	Ceramic 50V 0.01	1	
C742	ECQB1H223KH	Mylar 50V 0.022	1	
C743	ECQV1H224JZ	Mylar 50V 0.22	1	
C744	ECCF1H050CC	Ceramic 50V 5P	1	
C745	ECCF1H560JP	Ceramic 50V 56P	1	
C746-748	ECKF1H103ZF	Ceramic 50V 0.01	3	
C749	ECKF1H102KB	Ceramic 50V 1000P	1	
C750	ECEA1HK2R2	Electrolytic 50V 2.2	1	
C751	ECKF1H102KB	Ceramic 50V 1000P	1	
C754	ECKF1H103ZF	Ceramic 50V 0.01	1	
C755	ECEA1CK470	Electrolytic 16V 47	1	
C756	ECEA16Z10	Electrolytic 16V 10	1	
C760	ECQB1H103KH	Mylar 50V 0.01	1	
C761,762	ECEA1CK330	Electrolytic 16V 33	2	
C763	ECCF1H680JP	Ceramic 50V 68P	1	
C767,768	ECKF1H103ZF	Ceramic 50V 0.01	2	
C769	ECCF1H060CC	Ceramic 50V 6P	1	
C770	ECCF1H101JP	Ceramic 50V 100P	1	
		Coils		
L701	VLQEL05F100K	10μH	1	
L702	VLQEL05F560K	56μH	1	
L704	VLQEL05F101K	100μH	1	
L705	VLQEL05F120K	12μH	1	
L706	VLQEL05F2R2K	2.2μH	1	
L707	ELQSR56KB	0.56μH	1	
L708	VLQEL05F100K	10μH	1	
L709	VLQEL05F101K	100μH	1	
		Transformers		
T702	EULHLB318		1	
T703	EIM5A521		1	
T704	EIV7E018C	Selective	1	
T705	EIV7E016E	APC	1	
T706	EULHLB319		1	
T707	EIV7E018C	Selective	1	
T712	EIM5A521	Trap	1	
		Crystal Oscillator		
X701	EFCS5R5MW3		1	or VLF0182
		Connectors		
P701	VJP1234	7P	1	
P702	VJP1229	2P	1	
P704	VJP1237	10P	1	
P705	VJP1232	5P	1	
P706	VJP1230	3P	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Miscellaneous		
	TNV77759F2	Tuner	1	
	VMZ0550	Barrier	1	
	VSC0902	Shield Case (Large-Top)	1	
	VSC0903	Shield Case (Large-Main)	1	
	VSC0904	Shield Case (Large-Bottom)	1	
	VSC0905	Shield Case (Small-Top)	1	
	VSC0906	Shield Case (Small-Main)	1	
	VSC0907	Shield Case (Small-Bottom)	1	
	VEP07194A	Decoder P.C. Board Unit		NV-B50EG
		Integrated Circuits		
IC7001	BN5823		1	
IC7002	LA7755		1	
IC7003	TC4066BP		1	or μPD4066BC
IC7004,7005	AN5215		2	
		Transistors		
Q7001	2SD637		1	(Q,R,S,T)
				or 2SC1685(Q,R,S,T)
Q7002	2SB641		1	(Q,R,S,T)
				or 2SA564(Q,R,S,T)
Q7003,7004	2SD637		1	(Q,R,S,T)
				or 2SC1685(Q,R,S,T)
Q7005	2SB641		1	(Q,R,S,T)
				or 2SC564(Q,R,S,T)
Q7006-7016	2SD637		11	(Q,R,S,T)
				or 2SC1685(Q,R,S,T)
Q7020	2SD636		1	(Q,R,S,T)
				or 2SC1684(Q,R,S,T)
		Diodes		
D7001-7004	MA165		4	
D7005,7006	MA1082	Zener	2	or RD8.2EB2
D7007-7011	MA165		5	
D7016	MA165		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Resistors		
R7001	EVN61AA00B33	Variable 3K	1	or EVNK6AA00B33
R7002	ERDS2TJ224	220K	1	
R7003	ERDS2TJ333	33K	1	
R7004	ERDS2TJ182	1.8K	1	
R7005	ERDS2TJ152	1.5K	1	
R7006	ERDS2TJ563	56K	1	
R7007	ERDS2TJ682	6.8K	1	
R7008,7009	ERDS2TJ102	1K	2	
R7010,7011	ERDS2TJ103	10K	2	
R7012,7013	ERDS2TJ473	47K	2	
R7014	ERD2FCG220	Fuse Resistor 22	1	⚠
R7015	ERDS2TJ473	47K	1	
R7016,7017	ERDS2TJ474	470K	2	
R7018	ERDS2TJ104	100K	1	
R7019	ERDS2TJ182	1.8K	1	
R7020	ERDS2TJ273	27K	1	
R7021	ERDS2TJ102	1K	1	
R7022	ERDS2TJ333	33K	1	
R7023	ERDS2TJ104	100K	1	
R7024	ERDS2TJ103	10K	1	
R7025	ERDS2TJ104	100K	1	
R7026	EVNK6AA00B15	Variable 100K	1	or EVN61AA00B15
R7027	ERDS2TJ154	150K	1	
R7028	EVNK6AA00B54	Variable 50K	1	or EVN61AA00B54
R7029	ERDS2TJ823	82K	1	
R7030	ERDS2TJ104	100K	1	
R7031	ERDS2TJ564	560K	1	
R7032	ERDS2TJ104	100K	1	
R7033	ERDS2TJ684	680K	1	
R7034	ERD2FCG220	Fuse Resistor 22	1	⚠
R7035	ERDS2TJ124	120K	1	
R7036	ERDS2TJ683	68K	1	
R7037	ERDS2TJ102	1K	1	
R7038	ERDS2TJ222	2.2K	1	
R7039	ERDS2TJ104	100K	1	
R7040	EVN50AA00B14	Variable 10K	1	
R7041	ERDS2TJ473	47K	1	
R7042	ERDS2TJ182	1.8K	1	
R7043	ERDS2TJ104	100K	1	
R7044	EVN50AA00B14	Variable 10K	1	
R7045	ERDS2TJ473	47K	1	
R7046	ERDS2TJ104	100K	1	
R7047,7048	ERDS2TJ102	1K	2	
R7049-7053	ERDS2TJ103	10K	5	
R7054	ERDS2TJ273	27K	1	
R7055	ERDS2TJ102	1K	1	
R7056	ERDS2TJ152	1.5K	1	
R7057	ERDS2TJ103	10K	1	
R7058	ERDS2TJ273	27K	1	
R7059-7061	ERDS2TJ103	10K	3	
R7062	ERDS2TJ273	27K	1	
R7063	ERD2FCG220	Fuse Resistor 22	1	⚠
R7064	ERDS2TJ152	1.5K	1	
R7065	ERDS2TJ103	10K	1	
R7066	ERDS2TJ330	33	1	
R7067,7068	ERDS2TJ472	4.7K	2	
R7069	ERDS2TJ152	1.5K	1	
R7070	ERDS2TJ104	100K	1	
R7071-7074	ERDS2TJ471	470	4	
R7075	ERDS2TJ272	2.7K	1	
R7076	EVN50AA00B14	Variable 10K	1	
R7077	ERDS2TJ102	1K	1	
R7078	ERDS2TJ562	5.6K	1	

Ref. No.	Part No.	Part Name & Description			Pcs / Set	Remarks
R7079,7080	ERES2TJ823			82K	2	
R7081,7082	ERDS2TJ102			1K	2	
R7089	ERDS2TJ473			47K	1	
R7091	ERD2FCG220	Fuse Resistor		22	1	⚠
R7092	ERDS2TJ183			18K	1	
R7093,7094	ERDS2TJ103			10K	2	
R7095,7096	ERDS2TJ681			680	2	
		Capacitors				
C7001	ECEA1CK470	Electrolytic	16V	47	1	
C7002	ECEA0JS471	Electrolytic	6.3V	470	1	or ECEA0JU471
C7003	ECQB1H333JH	Mylar	50V	0.033	1	
C7004	ECQB1H822JH	Mylar	50V	8200P	1	
C7005	ECQB1H152JH	Mylar	50V	1500P	1	
C7006	ECKF1H103ZF	Ceramic	50V	0.01	1	
C7007	ECQB1H223JH	Mylar	50V	0.022	1	
C7008	ECEA1CK100	Electrolytic	16V	10	1	
C7009	ECEA1CS221	Electrolytic	16V	220	1	or ECEA1CU221
C7010	ECEA1CK100	Electrolytic	16V	10	1	
C7011	ECEA0JK101	Electrolytic	6.3V	100	1	
C7012,7013	ECEA1EK4R7	Electrolytic	25V	4.7	2	
C7014,7015	ECKF1H103ZF	Ceramic	50V	0.01	2	
C7016	ECEA1CK470	Electrolytic	16V	47	1	
C7017	ECEA1CU101	Electrolytic	16V	100	1	
C7018	ECQB1H273JH	Mylar	50V	0.027	1	
C7019	ECEA1HKR47	Electrolytic	50V	0.47	1	
C7020	ECEA1HK2R2	Electrolytic	50V	2.2	1	
C7021	ECEA1HK010	Electrolytic	50V	1	1	
C7022	ECEA1HK2R2	Electrolytic	50V	2.2	1	
C7023	ECEA1HKR47	Electrolytic	50V	0.47	1	
C7024	ECQB1H223JH	Mylar	50V	0.022	1	
C7025	ECEA1AS101	Electrolytic	10V	100	1	or ECEA1AU101
C7026-7028	ECEA1CK100	Electrolytic	16V	10	3	
C7029	ECEA1EK4R7	Electrolytic	25V	4.7	1	
C7030	ECQB1H183JH	Mylar	50V	0.018	1	
C7031	ECQB1H152JH	Mylar	50V	1500P	1	
C7032	ECQB1H153JH	Mylar	50V	0.015	1	
C7033	ECQB1H152JH	Mylar	50V	1500P	1	
C7034	ECEA1EK4R7	Electrolytic	25V	4.7	1	
C7035,7036	ECKF1H102KB	Ceramic	50V	1000P	2	
C7037	ECEA50Z1	Electrolytic	50V	1	1	
C7038,7039	ECEA1CU101	Electrolytic	16V	100	2	
C7040	ECKF1H102KB	Ceramic	50V	1000P	1	
C7041	ECKF1H103ZF	Ceramic	50V	0.01	1	
C7042	ECEA1CK470	Electrolytic	16V	47	1	
C7043	ECKF1H102KB	Ceramic	50V	1000P	1	
C7044	ECCF1H120JC	Ceramic	50V	12P	1	
C7045	ECKF1H102KB	Ceramic	50V	1000P	1	
C7046	ECKF1H103ZF	Ceramic	50V	0.01	1	
C7047	ECCF1H120JC	Ceramic	50V	12P	1	
C7048	ECKF1H102KB	Ceramic	50V	1000P	1	
C7049	ECEA1CK470	Electrolytic	16V	47	1	
C7050	ECCF1H101JC	Ceramic	50V	100P	1	
C7051	ECEA1CK330	Electrolytic	16V	33	1	
C7052	ECEA1CK100	Electrolytic	16V	10	1	
C7053	ECQB1H223JH	Mylar	50V	0.022	1	
C7054	ECQB1H152JH	Mylar	50V	1500P	1	
C7055,7056	ECCF1H390JP	Ceramic	50V	39P	2	
C7057,7058	ECQB1H822JH	Mylar	50V	8200P	2	
C7091,7092	ECQB1H103JH	Mylar	50V	0.01	2	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Coils		
L7001	VLQEL05F102K	1mH	1	
L7002	VTQ0016	36mH	1	
L7003,7004	VLQEL05F102K	1mH	2	
L7010,7011	VTQ0014	10mH	2	
		Transformers		
T7001	EIR7QG001B		1	
T7002,7003	EIS7E006B		2	
		Crystal Oscillators		
X7001,7002	EFCS5R5MS4B		2	
X7003,7004	EFCS5R74MS4B		2	
X7005,7006	ELB5A016		2	
		Connectors		
P7006	VJP1230	3P	1	
P7007	VJP1232	5P	1	
	VEP07195A/B	Timer P.C. Board Unit		
		Integrated Circuits		
IC7501	MN1455BVL		1	
IC7503	MN1512VTJ		1	
IC7504	MN1228		1	
IC7505	AN5033		1	
		Transistors		
Q7501	2SB641		1	or 2SA564, 2SA733,
				2SB642
Q7503	2SD636		1	or 2SC1684, 2SC945A,
				2SD637
Q7506	2SB641		1	or 2SA564, 2SA733,
				2SB642
Q7507,7508	2SB644		2	
Q7510	2SD637		1	or 2SC1685
Q7511	2SB642		1	
Q7513-7515	2SB642		3	
Q7520	2SD636		1	or 2SC1684, 2SC945A,
				2SD637
Q7522	2SD636		1	or 2SC1684, 2SC945A,
				2SD637
		Combination Circuit		
		(Transistor & Resistor)		
QR7503	DTC144A		1	or UN1213
QR7504	DTC114A		1	or UN1211 M-8 50E/EG

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Diodes		
D7501,7502	MA165		2	
D7505	LN28WPVT	LED	1	
D7506,7507	10E2		2	or ERB1202G1
D7509	MA27WB		1	
D7510	LN28WPVT	LED	1	
D7520	MA165		1	
D7521	MA165		1	NV-850E/EG
D7522	MA165		1	
D7523	LN38GCPP	LED	1	
D7550-7554	MA165		5	
D7561-7563	MA165		3	
D7574	MA165		1	
D7597	MA165		1	NV-850B
		Resistors		
R7501	ERDS2TJ122	1.2K	1	
R7502	ERC14GJ126	Solid 1.2M	1	
R7503,7504	ERDS2TJ102	1K	2	
R7505,7506	ERDS2TJ223	22K	2	
R7507	ERDS2TJ181	180	1	
R7508	ERDS2TJ334	330K	1	
R7509	EVNK6AA00B25	Variable 200K	1	or EVN61AA00B25
R7510	ERDS2TJ124	120K	1	
R7511	ERDS2TJ154	150K	1	
R7512	ERDS2TJ104	100K	1	
R7516	ERDS2TJ473	47K	1	
R7517	ERDS2TJ221	220	1	
R7518	ERDS2TJ105	1M	1	
R7526	ERDS2TJ104	100K	1	NV-850E/EG
R7527	ERDS2TJ104	100K	1	
R7528	ERDS2TJ103	10K	1	
R7529	ERDS2TJ473	47K	1	
R7530	ERDS2TJ104	100K	1	
R7531	ERDS2TJ124	120K	1	
R7532	ERDS2TJ122	1.2K	1	
R7533	EWEU2A016B24	Variable 20K	1	
R7534	ERDS2TJ271	270	1	
R7535	EVNK6AA00B14	Variable 10K	1	or EVN61AA00B14
R7536	ERDS2TJ103	10K	1	
R7537	ERDS2TJ473	47K	1	
R7539	ERDS2TJ390	39	1	
R7540	ERDS2TJ820	82	1	
R7541	ERDS2TJ153	15K	1	
R7542	ERDS2TJ473	47K	1	
R7546	ERDS2TJ273	27K	1	
R7547	ERDS2TJ104	100K	1	
R7548	ERDS2TJ472	4.7K	1	
R7549	ERDS2TJ104	100K	1	
R7550	ERDS2TJ391	390	1	
R7551-7556	ERDS2TJ273	27K	6	
R7557-7559	ERDS2TJ473	47K	3	
R7560	ERDS2TJ222	2.2K	1	
R7561	ERDS2TJ332	3.3K	1	
R7562	ERDS2TJ223	22K	1	
R7567	ERDS2TJ223	22K	1	
R7568	ERDS2TJ332	3.3K	1	NV-850E/EG

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R7570,7571	ERDS2TJ332	3.3K	2	
R7575	ERDS2TJ334	330K	1	NV-850E/EG
R7576	ERDS2TJ223	22K	1	
R7577	ERDS2TJ473	47K	1	
R7579	ERDS2TJ473	47K	1	
		Capacitors		
C7501	ECCF1H080DC	Ceramic 50V 8P	1	
C7502	ECVIZW20X53T	Trimmer 500V 20P	1	
C7503	ECCF1H050CC	Ceramic 50V 5P	1	
C7504	ECCF1H330JC	Ceramic 50V 33P	1	
C7505	ECCF1H220JC	Ceramic 50V 22P	1	
C7506	ECKF1H103ZF	Ceramic 50V 0.01	1	
C7507,7508	ECEA1HKR22	Electrolytic 50V 0.22	2	
C7510	ECEA1AK101	Electrolytic 10V 100	1	
C7511	ECKF1H103ZF	Ceramic 50V 0.01	1	
C7512	ECEA1HKR22	Electrolytic 50V 0.22	1	
C7513,7514	ECCF1H470J	Ceramic 50V 47	2	
C7515	ECQV1H104JZ	Mylar 50V 0.1	1	
C7516	ECQV1H683JZ	Mylar 50V 0.068	1	
C7517	ECQV1H273JZ	Mylar 50V 0.027	1	or ECQB1H273JH
C7518	ECQV1H823JZ	Mylar 50V 0.082	1	
C7519-7521	ECKF1H103ZF	Ceramic 50V 0.01	3	
C7522	ECEA1JS100	Electrolytic 6.3V 10	1	
C7523	ECEA1HK010	Electrolytic 50V 1	1	
C7524	ECKF1H103ZF	Ceramic 50V 0.01	1	
C7527	ECKF1HK4R7	Electrolytic 50V 4.7	1	
C7528	ECQV1H473JZ	Mylar 50V 0.047	1	
C7530	ECEA1HK010	Electrolytic 50V 1	1	
C7531	ECEA1CK100	Electrolytic 16V 10	1	
C7532	ECEA1HK010	Electrolytic 50V 1	1	
C7533	ECKF1H103ZF	Ceramic 50V 0.01	1	
C7540-7542	EECW2R3A3R3	Gold Capacitor 2.3V 3.3F	3	
C7543	ECEA1HK010	Electrolytic 50V 1	1	
C7550	ECCF1H101J	Ceramic 50V 100P	1	
C7553	ECKF1H103ZF	Ceramic 50V 0.01	1	
C7554	ECKF1H103ZF	Ceramic 50V 0.01	1	
C7555	ECQV1H104JZ	Mylar 50V 0.1	1	
		Coil		
L7501	VLQEL05F102K	1mH	1	
		Crystal Oscillators		
X7501	VSX0071		1	
X7502	VSX0094		1	
X7503	VSX0082		1	
		Switches		
SW7516	VES0213		1	
SW7517	ESD14137A		1	or VSS0050 NV-850E/EG
SW7518	EVQQSB05G		1	
SW7519,7520	EVQQSB05G		2	NV-850E/EG
		Connectors		
P7501	VJP1237	10P	1	
P7503	VJP1235	8P	1	
P7505	VJP1229	2P	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Miscellaneous		
	VGQ0457	LED Spacer	1	(For D7523)
	VGT0305	VR Knob	1	
	VJF0004	Binder	1	
	VEP07196A/B	Timer Operation P.C.		
		Board Unit		
		Integrated Circuits		
IC7502	AN6873N		1	or MSL915RS
IC7506	MN1453VTN		1	
IC7580	μPC1373H		1	or μPC1373HA
		Transistors		
Q7523-7526	2SD636		4	or 2SC1684, 2SC945A,
				2SD637
Q7580	2SB641		1	or 2SA564, 2SA733,
				2SB642
Q7581	2SD636		1	or 2SC1684, 2SC945A,
				2SD637
		Combination Circuits		
		(Transistor & Resistor)		
QR7501,7502	DTA144A		2	or UN1113
QR7504	DTC114A		1	or UN1211 NV-850E/EG
		Diodes		
D7514	MA165		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
D7516-6519	MA165		4	
D7530	MA165		1	
D7531-7537	LN071175P1	LED	7	
D7570	MA165		1	
D7571	MA165		1	
D7574-7579	LN061174P	LED	6	
D7595	MA165		1	NV-850E/EG
D7596	RD5.6EB	Zener	1	or MA1056
D7598,7599	MA165		2	
		Resistors		
R7515	ERDS2TJ561	560	1	
R7519	ERDS2TJ821	820	1	
R7520,7521	ERDS2TJ561	560	2	
R7538	ERDS2TJ221	220	1	
R7563	ERDS2TJ391	390	1	
R7564	ERDS2TJ821	820	1	
R7566	ERDS2TJ561	560	1	
R7573	ERDS2TJ2R7	2.7	1	
R7578	ERDS2TJ103	10K	1	
R7580	ERDS2TJ154	150K	1	
R7581	ERDS2TJ120	12	1	
R7582	ERDS2TJ102	1K	1	
R7583	ERDS2TJ473	47K	1	
R7584	ERDS2TJ334	330K	1	
R7585	ERDS2TJ124	120K	1	
R7586	ERDS2TJ473	47K	1	
R7599	ERDS2TJ223	22K	1	
		Capacitors		
C7551	ECEA1CK100BJ	Electrolytic 16V 10	1	
C7552	ECEA1HKR22BJ	Electrolytic 50V 0.22	1	
C7580	ECQV1H183JZ	Mylar 50V 0.018	1	or ECQB1H183JZ
C7581	APS472J100	Mylar 100V 4700P	1	
C7582	ECEA1CK100BJ	Electrolytic 16V 10	1	
C7583	ECEA1HKR47BJ	Electrolytic 50V 0.47	1	
C7584	ECEA1CK470UJ	Electrolytic 16V 47	1	
C7585	ECEA1CK100BJ	Electrolytic 16V 10	1	
C7586	ECQB1H102JH	Mylar 50V 1000P	1	
C7587	ECKZ1H331KB	Ceramic 50V 330P	1	
		Transformer		
T7580	ELM7Q206A		1	
		Switches		
SW7501	EVQQS307K		1	
SW7504	ESD14182		1	
SW7505-7508	EVQQS307K		4	
SW7510	EVQQS307K		1	
SW7512,7513	EVQQS307K		2	
SW7514	VSP0111		1	or ESB641
SW7521,7522	EVQQS307K		2	
SW7524	EVQQS307K		1	
SW7525	ESB65140		1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Connectors		
P7504		VJP1235	8P	1	
P7506		VJP1230	3P	1	
			Display Tube		
DP7501		VSL0027		1	
			Miscellaneous		
		VGQ0417	Display Tube Holder	2	
		VGQ0458	Display Tube Spacer	2	
		VSC1087	Shield Case (Top)	1	
		VSC1088	Shield Case (Main)	1	
		VSC1089	Shield Case (Bottom)	1	
		VSC1090	Shield Case	1	
		VEP00A99A	FM Audio Main P.C. Board		
			Unit		
			Integrated Circuits		
IC4501,4502		AN6391		2	
IC4503		AN6291		1	
IC4504		AN6326N		1	
IC4505		AN6558		1	
IC4506,4507		TA7302P		2	
IC4508		AN78N05		1	
			Transistors		
Q4501-4505		2SD636		5	
Q4506		2SD655		1	(E,F)
Q4507-4511		2SD636		5	
Q4512		2SD655		1	(E,F)
Q4513-4516		2SD636		4	
Q4520		2SC2377		1	
Q4521		2SB641		1	
Q4522		2SD636		1	
Q4523		2SB641		1	
Q4524		2SD638		1	
Q4525		2SD636		1	
Q4526		2SC2377		1	
Q4527		2SB641		1	
Q4528-4531		2SD636		4	
Q4532,4533		2SD638		2	
Q4534,4535		2SD636		2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Combination Circuits		
			(Transistor & Resistor)		
QR4501,4502		DTC124A		2	or UN1212
QR4505,4506		DTA124A		2	or UN1112
			Diodes		
D4501,4502		MA165		2	
D4503,4504		0A90R		2	
D4505-4510		MA165		6	
D4511		RD4.7EB	Zener	1	
D4512		RD6.2EB	Zener	1	
D4514		MA165		1	
			Resistors		
R4501		ERDS2TJ333	33K	1	
R4502		ERDS2TJ682	6.8K	1	
R4503		EVNJ8CA00B23	Variable 2K	1	
R4504		ERDS2TJ392	3.9K	1	
R4505		ERDS2TJ472	4.7K	1	
R4506		ERDS2TJ104	100K	1	
R4507,4508		ERDS2TJ102	1K	2	
R4509		ERDS2TJ392	3.9K	1	
R4510		ERDS2TJ102	1K	1	
R4511		ERDS2TJ821	820	1	
R4512		ERDS2TJ331	330	1	
R4513		ERDS2TJ332	3.3K	1	
R4514		ERDS2TJ103	10K	1	
R4516		EVN61AA00B13	Variable 1K	1	
R4520,4521		ERDS2TJ473	47K	2	
R4522		ERDS2TJ272	2.7K	1	
R4523		ERDS2TJ332	3.3K	1	
R4524,4525		ERDS2TJ104	100K	2	
R4526		ERDS2TJ472	4.7K	1	
R4527		ERDS2TJ153	15K	1	
R4528		ERDS2TJ472	4.7K	1	
R4529-4531		ERDS2TJ473	47K	3	
R4532		ERDS2TJ222	2.2K	1	
R4533		ERDS2TJ103	10K	1	
R4534-4536		ERDS2TJ223	22K	3	
R4539		ERDS2TJ122	1.2K	1	
R4540		ERDS2TJ332	3.3K	1	
R4541		EVNK0AA00B25	Variable 200K	1	
R4542,4543		ERDS2TJ104	100K	2	
R4544		ERDS2TJ472	4.7K	1	
R4545		ERDS2TJ151	150	1	
R4546		ERDS2TJ472	4.7K	1	
R4547		ERDS2TJ153	15K	1	
R4548		ERDS2TJ102	1K	1	
R4550,4551		ERDS2TJ104	100K	2	
R4552		ERDS2TJ472	4.7K	1	
R4553		ERDS2TJ332	3.3K	1	
R4554		ERDS2TJ272	2.7K	1	
R4555-4559		ERDS2TJ473	47K	5	
R4560		ERDS2TJ472	4.7K	1	
R4561		ERDS2TJ153	15K	1	
R4562		ERDS2TJ222	2.2K	1	
R4563		ERDS2TJ182	1.8K	1	
R4564		ERDS2TJ103	10K	1	
R4565		ERDS2TJ223	22K	1	
R4566		ERDS2TJ103	10K	1	
R4567		ERDS2TJ182	1.8K	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R4568	EVN61AA00B15	Variable 100K	1	
R4570	ERDS2TJ103	10K	1	
R4571	ERDS2TJ122	1.2K	1	
R4572	EVNK0AA00B23	Variable 2K	1	
R4573	ERDS2TJ151	150	1	
R4574	ERDS2TJ153	15K	1	
R4575	ERDS2TJ472	4.7K	1	
R4576	ERDS2TJ562	5.6K	1	
R4577	ERDS2TJ563	56K	1	
R4578	ERDS2TJ562	5.6K	1	
R4579	ERDS2TJ473	47K	1	
R4580,4581	ERDS2TJ333	33K	2	
R4582	ERDS2TJ473	47K	1	
R4583	ERDS2TJ563	56K	1	
R4584	ERDS2TJ392	3.9K	1	
R4585	ERDS2TJ472	4.7K	1	
R4586	EVNK0AA00B13	Variable 1K	1	
R4587	ERDS2TJ103	10K	1	
R4590	ERDS2TJ104	100K	1	
R4591	ERDS2TK472	4.7K	1	
R4592	ERDS2TJ104	100K	1	
R4593	EVNK0AA00B25	Variable 200K	1	
R4594	ERDS2TJ332	3.3K	1	
R4595	ERDS2TJ333	33K	1	
R4596	ERDS2TJ682	6.8K	1	
R4597	EVN38CA00B23	Variable 2K	1	
R4598	ERDS2TJ272	2.7K	1	
R4600	ERDS2TJ102	1K	1	
R4603,4604	ERDS2TJ104	100K	2	
R4605-4607	ERDS2TJ102	1K	3	
R4610	ERDS2TJ272	2.7K	1	
R4612	EVN61AA00B53	Variable 5K	1	
R4613	ERDS2TJ103	10K	1	
R4614	ERDS2TJ223	22K	1	
R4615	ERDS2TJ330	33	1	
R4616	ERDS2TJ222	2.2K	1	
R4617	ERDS2TJ102	1K	1	
R4618	ERDS2TJ391	390	1	
R4619	ERDS2TJ821	820	1	
R4620,4621	ERDS2TJ220	22	2	
R4622	ERDS2TJ152	1.5K	1	
R4623	ERDS2TJ223	22K	1	
R4624	ERDS2TJ332	3.3K	1	
R4625,4626	ERDS2TJ100	10	2	
R4627	ERDS2TJ332	3.3K	1	
R4628,4629	ERDS2TJ101	100	2	
R4630	ERDS2TJ222	2.2K	1	
R4631	ERDS2TJ152	1.5K	1	
R4632,4633	ERDS2TJ222	2.2K	2	
R4634	ERDS2TJ182	1.8K	1	
R4635	ERDS2TJ222	2.2K	1	
R4636	ERDS2TJ102	1K	1	
R4637	ERDS2TJ182	1.8K	1	
R4638	ERDS2TJ222	2.2K	1	
R4639	ERDS2TJ102	1K	1	
R4641	ERDS2TJ103	10K	1	
R4642	ERDS2TJ473	47K	1	
R4643	ERDS2TJ101	100	1	
R4644	ERDS2TJ103	10K	1	
R4645	ERDS2TJ102	1K	1	
R4646	ERDS2TJ103	10K	1	
R4647	ERDS2TJ822	8.2K	1	
R4648	ERDS2TJ153	15K	1	
R4649	ERDS2TJ333	33K	1	

Ref. No.	Part No	Part Name & Description	Pcs / Set	Remarks
R4650,4651	ERDS2TJ473	47K	2	
R4652	ERDS2TJ104	100K	1	
R4654	ERDS2TJ472	4.7K	1	
R4655,4656	ERDS2TJ182	1.8K	2	
R4657	ERDS2TJ103	10K	1	
R4659	ERDS2TJ473	47K	1	
R4661	ERDS2TJ104	100K	1	
R4662	ERDS2TJ102	1K	1	
R4663-4666	ERDS2TJ223	22K	4	
R4667,4668	ERDS2TJ102	1K	2	
R4669	ERDS2TJ473	47K	1	
R4670	ERDS2TJ474	470K	1	
R4671	ERDS2TJ561	560	1	
R4672	ERDS2TJ102	1K	1	
		Capacitors		
C4501	ECEA1CK100	Electrolytic 16V 10	1	
C4502,4503	ECEA1EK3R3	Electrolytic 25V 3.3	2	
C4504	ECCF1H101JC	Ceramic 50V 100P	1	
C4505	ECEA1CK100	Electrolytic 16V 10	1	
C4506	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4507	ECCF1H820JC	Ceramic 50V 82P	1	
C4508,4509	ECCF1H680JC	Ceramic 50V 68P	2	
C4511,4512	ECKF1H103ZF	Ceramic 50V 0.01	2	
C4513	ECEA1CK100	Electrolytic 16V 10	1	
C4514	ECEA1CK220	Electrolytic 16V 22	1	
C4515	ECEA1CKN100J	Eelctrolytic 16V 10	1	
C4516	ECQB1H103KH	Mylar 50V 0.01	1	
C4517	ECEA1CK100	Electrolytic 16V 10	1	
C4518	ECKF1H221KB	Ceramic 50V 220P	1	
C4519	ECKF1H331KB	Ceramic 50V 330P	1	
C4520	ECEA1CK100	Electrolytic 16V 10	1	
C4521	ECKF1H103ZF	Ceramic 50V 0.01	1	
C4522,4523	ECEA1CK100	Electrolytic 16V 10	2	
C4526,4527	ECEA1CK100	Electrolytic 16V 10	2	
C4533	ECEA25M3R3B	Electrolytic 25V 3.3	1	
C4534	ECQB1H223JH	Mylar 50V 0.022	1	
C4535	ECEA1CK100	Electrolytic 16V 10	1	
C4537	ECEA25M3R3	Electrolytic 25V 3.3	1	
C4538	ECQB1H123JH	Mylar 50V 0.012	1	
C4539	ECEA1CK470	Electrolytic 16V 47	1	
C4540,4541	ECEA1CK100	Electrolytic 16V 10	2	
C4542	ECEA10M101	Electrolytic 10V 100	1	
C4543	ECQB1H472JH	Mylar 50V 4700P	1	
C4544	ECKF1H331KB	Ceramic 50V 330P	1	
C4545	ECQB1H123JH	Mylar 50V 0.012	1	
C4546,4547	ECEA1CK100	Electrolytic 16V 10	2	
C4548,4549	ECEA1CK330	Electrolytic 16V 33	2	
C4550	ECCF1H330KC	Ceramic 50V 33P	1	
C4551	ECEA1CK100	Electrolytic 16V 10	1	
C4552	ECQB1H103JH	Mylar 50V 0.01	1	
C4553	ECEA1AK330BJ	Electrolytic 10V 33	1	
C4555	ECEA1CK100BJ	Electrolytic 16V 10	1	
C4556	ECEA1CK330UJ	Electrolytic 16V 33	1	
C4557	ECCF1H330KC	Ceramic 50V 33P	1	
C4558	ECEA25M3R3	Electrolytic 25V 3.3	1	
C4560	ECQB1H123JH	Mylar 50V 0.012	1	
C4561	ECEA1CK100	Electrolytic 16V 10	1	
C4568	ECEA25M3R3	Electrolytic 25V 3.3	1	
C4569	ECEA1CK100	Electrolytic 16V 10	1	
C4570	ECQB1H223JH	Mylar 50V 0.022	1	
C4571	ECEA1CK100	Electrolytic 16V 10	1	
C4572	ECEA10M101	Electrolytic 10V 100	1	
C4573	ECQB1H472JH	Mylar 50V 4700P	1	
C4574	ECKF1H331KB	Ceramic 50V 330P	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
C4575		ECQB1H123JH	Mylar	50V	0.012	1	
C4576,4577		ECEA1CK100	Electrolytic	16V	10	2	
C4578		ECQB1H103JH	Mylar	50V	0.01	1	
C4579,4580		ECEA1CK100	Electrolytic	16V	10	2	
C4581,4582		ECEA1EK3R3	Electrolytic	25V	3.3	2	
C4583		ECCF1H101JC	Ceramic	50V	100P	1	
C4584		ECQV1H104JZ	Mylar	50V	0.1	1	
C4585		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4586		ECCF1H820JC	Ceramic	50V	82P	1	
C4587,4588		ECCF1H470JC	Ceramic	50V	47P	2	
C4590		ECEA1CK100	Electrolytic	16V	10	1	
C4591		ECEA1CK220	Electrolytic	16V	22	1	
C4592		ECEA1CKN100	Electrolytic	16V	10	1	
C4594		ECQB1H103KH	Mylar	50V	0.01	1	
C4595		ECEA1CK100	Electrolytic	16V	10	1	
C4596		ECKF1H221KB	Ceramic	50V	220P	1	
C4597		ECKF1H331KB	Ceramic	50V	330P	1	
C4598,4599		ECEA1CK100	Electrolytic	16V	10	2	
C4602		ECEA1CK100	Eelctrolytic	16V	10	1	
C4603-4608		ECKF1H103ZF	Ceramic	50V	0.01	6	
C4609		ECEA16Z10	Electrolytic	16V	10	1	
C4610		ECEA1CK100	Electrolytic	16V	10	1	
C4611		ECEA0JK470	Electrolytic	6.3V	47	1	
C4612		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4613		ECEA1CK100	Electrolytic	16V	10	1	
C4614,4615		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4616		ECEA1CK100	Electrolytic	16V	10	1	
C4617		ECEA1HK010	Electrolytic	50V	1	1	
C4618		ECEA1CK100	Electrolytic	16V	10	1	
C4619		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4620,4621		ECQV1H473JZ	Mylar	50V	0.047	2	
C4622,4623		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4625,4626		ECQV1H473JZ	Mylar	50V	0.047	2	
C4627,4628		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4629		ECEA16Z10	Electrolytic	16V	10	1	
C4630,4631		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4632		ECEA1CK100	Electrolytic	16V	10	1	
C4633		ECEA50ZR22	Electrolytic	50V	0.22	1	
C4634		ECEA10Z47	Electrolytic	10V	47	1	
C4635		ECEA16Z47	Electrolytic	16V	47	1	
C4637		ECQB1H103JH	Mylar	50V	0.01	1	
C4638		ECEA1CK100	Electrolytic	16V	10	1	
C4639		ECQB1H103JH	Mylar	50V	0.01	1	
C4640		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4641		ECEA1HK0R1	Electrolytic	50V	0.1	1	
C4642		ECEA16Z10	Electroytic	16V	10	1	
C4643,4644		ECEA1CK100	Electrolytic	16V	10	2	
C4645,4646		ECCF1H470JC	Ceramic	50V	47P	2	
C4647		ECCF1H080DC	Ceramic	50V	8P	1	
C4648		ECEA1EK4R7	Electrolytic	25V	4.7	1	
			Coils				
L4501		VLQEL05F101K			100μH	1	
L4505-4507		VLQEL05F101K			100μH	3	
L4512		VLQEL05F101K			100μH	1	
L4513		VLQEL05F471K			470μH	1	
L4514		VLQEL05F121K			120μH	1	
L4515,4516		VLQEL05F2R2K			2.2μH	2	
			Filters				
FL4501		VLF0317				1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
FL4502		VLF0317		1	
FL4503,4504		EIT1QD001B		2	
FL4505,4506		VLF0305		2	
			Connectors		
P4502		VJP1235	8P	1	
P4505		VJP1233	6P	1	
P4506		VJP1232	5P	1	
			Miscellaneous		
		VSC1084	Shield Case (Main)	1	
		VSC1085	Shield Case (Top)	1	
		VSC1086	Shield Case (Bottom)	1	
		VJF0108	Rivet	2	
		VJF0175	P.C. Board Support	1	
		VXA2062	Barrier	1	
		VEP00B01A/B/C	FM Audio Sub P.C.Board		
			Unit		
			Integrated Circuits		
IC4301		TC9145P		1	
IC4302		TA7325P		1	
IC4303,4304		μPD4066BC		2	
IC4305		μPC4558C		1	
IC4306		BA6138		1	
IC4307		μPC4557C		1	
			Transistors		
Q4301,4302		2SD636		2	
Q4303,4304		2SD661		2	(S,T)
Q4305		2SD655		1	(E,F)
Q4306,4307		2SD661		2	(S,T)
Q4308		2SD655		1	(E,F)
Q4310,4311		2SB641		2	
Q4312		2SD636		1	
Q4313		2SB641		1	
Q4314,4315		2SD655		2	(E,F)
Q4318		2SD636		1	
			Combination Circuits		
			(Transistor & Resistor)		

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
QR4301	DTA114A		1	
QR4302-4305	DTC144A		4	
QR4306	DTC124A		1	or UN1212
		Diodes		
D4301-4304	MA165		4	
D4307-4317	MA165		11	
		Resistors		
R4301-4303	ERDS2TJ104	100K	3	
R4304	ERDS2TJ223	22K	1	
R4305	ERDS2TJ123	12K	1	
R4306	ERDS2TJ223	22K	1	
R4307	ERDS2TJ123	12K	1	
R4308	ERDS2TJ124	120K	1	
R4309	ERDS2TJ184	180K	1	
R4310	ERDS2TJ472	4.7K	1	
R4311	ERDS2TJ124	120K	1	
R4312	ERDS2TJ184	180K	1	
R4313	ERDS2TJ472	4.7K	1	
R4314,4315	ERDS2TJ223	22K	2	
R4317	ERDS2TJ151	150	1	
R4318	ERDS2TJ181	180	1	
R4319	ERDS2TJ394	390K	1	
R4320	ERDS2TJ332	3.3K	1	
R4323	ERDS2TJ223	22K	1	
R4325	ERDS2TJ151	150	1	
R4326	ERDS2TJ181	180	1	
R4327	ERDS2TJ332	3.3K	1	
R4328	ERDS2TJ394	390K	1	
R4329	EVNK0AA00B55	Variable 500K	1	
R4330,4331	ERDS2TJ104	100K	2	
R4332,4333	ERDS2TJ224	220K	2	
R4334,4335	ERDS2TJ472	4.7K	2	
R4336	ERDS2TJ273	27K	1	
R4338	ERDS2TJ473	47K	1	
R4339	ERDS2TJ474	470K	1	
R4340-4342	ERDS2TJ473	47K	3	
R4343	ERDS2TJ223	22K	1	
R4344	ERDS2TJ103	10K	1	
R4349,4350	ERDS2TJ823	82K	2	
R4351,4352	ERDS2TJ103	10K	2	
R4353,4354	ERDS2TJ473	47K	2	
R4355	ERDS2TJ223	22K	1	
R4356	ERDS2TJ221	220	1	
R4357,4358	ERDS2TJ223	22K	2	
R4360,4361	ERDS2TJ104	100K	2	
R4362	ERDS2TJ222	2.2K	1	
R4363	ERDS2TJ332	3.3K	1	
R4364	ERDS2TJ222	2.2K	1	
R4365	ERDS2TJ332	3.3K	1	
R4366	ERQ14AJ330	Metal 33	1	
R4367,4368	ERDS2TJ224	220K	2	
R4370,4371	ERDS2TJ101	100	2	
R4372	ERDS2TJ103	10K	1	
R4374	ERDS2TJ104	100K	1	
R4375	ERDS2TJ154	150K	1	
R4377	ERDS2TJ104	100K	1	
R4379	ERDS2TJ334	330K	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R4380	ERDS2TJ333	33K	1	
R4381	ERDS2TJ154	150K	1	
R4382,4383	ERDS2TJ473	47K	2	
R4385-4387	ERDS2T473	47K	3	
R4388-4392	ERDS2TJ333	33K	5	
R4394	ERDS2TJ391	390	1	
R4395	ERDS2TJ471	470	1	
R4396	ERDS2TJ391	390	1	
R4397	ERDS2TJ471	470	1	
R4398	ERDS2TJ333	33K	1	
R4399	ERDS2TJ223	22K	1	
R4400	ERDS2TJ333	33K	1	
R4401	ERDS2TJ223	22K	1	
R4402-4407	ERDS2TJ474	470K	6	
R4408	ERDS2TJ473	47K	1	
R4409	ERDS2TJ103	10K	1	
R4410,4411	ERDS2TJ223	22K	2	
R4412	ERDS2TJ102	1K	1	
R4413,4414	ERDS2TJ223	22K	2	
R4416	ERDS2TJ104	100K	1	
		Capacitors		
C4301-4306	ECEA1HK010	Electrolytic 50V 1	6	
C4307-4309	ECEA1CK100	Electrolytic 16V 10	3	
C4310	ECEA1AK330	Electrolytic 10V 33	1	
C4311	ECEA1CK100	Electrolytic 16V 10	1	
C4312	ECEA1CK101	ELectrolytic 16V 100	1	
C4313	ECEA1CK100	Electrolytic 16V 10	1	
C4314	ECEA1AK330	Electrolytic 10V 33	1	
C4315	ECEA1CK100	Electrolytic 16V 10	1	
C4316,4317	ECEA1HK010	Electrolytic 50V 1	2	
C4318	ECEA1CK101	Electrolytic 16V 100	1	
C4319,4320	ECKF1H103ZF	Ceramic 50V 0.01	2	
C4321,4322	ECEA1CK470	Electrolytic 16V 47	2	
C4323	ECEA1CK100	Electrolytic 16V 10	1	
C4324	ECEA1AU221	Electrolytic 10V 220	1	
C4325,4326	ECEA1CK100	Electrolytic 16V 10	2	
C4327	ECEA1CK470	Electrolytic 16V 47	1	
C4328	ECEA1EK100	Electrolytic 25V 10	1	
C4329-4331	ECEA1CK100	Electrolytic 16V 10	3	
C4332	ECEA1CU221	Electrolytic 16V 220	1	
C4333,4334	ECEA1AK470	Electrolytic 10V 47	2	
C4335,4336	ECEA1HK0R1	Electrolytic 50V 0.1	2	
C4337	ECEA1CK101	Electrolytic 16V 100	1	
C4338-4341	ECEA1CK100BJ	Electrolytic 16V 10	4	
C4343,4344	ECEA1CK100	Electrolytic 16V 10	2	
C4345,4346	ECEA1HK3R3	Electrolytic 50V 3.3	2	
		Connectors		
P4301	VJP1245	5P	1	
P4303	VJP1245	5P	1	
P4305	VJP1245	5P	1	
P4307	VJP1247	7P	1	
P4308	VJP1243	3P	1	
P4309	VJP1245	5P	1	
P4310,4311	VJP1243	3P	2	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	ENC87751	RF Converter Unit		
	/ENC87752			
		Integrated Circuit		
IC1	AN3130		1	
		Transistors		
Q1	2SC2480		1	(UO-1)
Q2,3	2SC2570		1	or 2SC2671
		Diodes		
D1,2	1SS174		2	or 1SS86
D3,4	1SS135		2	or MA161
D5	MA161		1	NV-850B
		Resistors		
R1	ERJ8GC391	Chip 390	1	
R2	ERD10TJ681	1/8W 680	1	
R3	EVN38CA00B14	Variable 10K	1	
R4	ERD25FJ121	Metal 120	1	
R5	ERD10TJ823	1/8W 82K	1	
R6	ERJ8GCS682	Chip 6.8K	1	
R7	ERD10TJ682	1/8W 6.8K	1	NV-850B/EG
R7	ERD10TJ472	1/8W 4.7K	1	NV-850B
R8	ERJ8GCJ273	Chip 27K	1	
R9	ERJ8GCJ101	Chip 100	1	
R10	ERD10TJ221	1/8W 220	1	
R11	ERD10TJ470	1/8W 47	1	
R12	ERD10TJ680	1/8W 68	1	
R16	ERJ8GCJ101	Chip 100	1	
R17,18	ERD10TJ151	1/8W 150	2	
R19	ERJ8GCS332	Chip 3.3K	1	
R20	ERJ8GCS471	Chip 470	1	
R21	ERJ8GCS150	Chip 15	1	
R23	ERJ8GCS331	Chip 330	1	
R24	ERJ8GCS561	Chip 560	1	
R25	ERD10TJ390	1/8W 39	1	
R26	ERD10TJ182	1/8W 1.8K	1	
R27	ERJ8GCS471	Chip 470	1	
R28	ERJ8GCS180	Chip 18	1	
R29	ERD10TJ331	1/8W 330	1	
R30	ERJ8GCS390	Chip 39	1	
R31	ERD10TJ750	1/8W 75	1	
R32	ERD10TJ561	1/8W 560	1	
R33	ERD10TJ273	1/8W 27K	1	NV-850B
R34	ERD10TJ271	1/8W 270	1	
R35	ERJ8GCS271	Chip 270	1	
R36	ERD10TJ271	1/8W 270	1	
R37	ERJ8GCS271	Chip 270	1	
R38	ERJ8GCS122	Chip 1.2K	1	
R39	ERD10TJ221	1/8W 220	1	
R40	ERD10TJ000	0	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Switch		
SW1	ESD14515		1	
		Connectors		
P1	VJP1244	4P	1	
P2	VJP1243	3P	1	

NOTE:
The capacitors, Filters, Transformers for the RF Converter Unit are not available as spare parts.

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	VJB00A53	Reel Sensor P.C. Board		
IC1501	ON2160	Photo Interrupter	1	
	VMX0645	Sensor Spacer	1	
	VJB00A54	Loading Motor Connection		
		P.C. Board		
		Capacitor		
C1504	VCYF1C333MR	Semiconductor 16V 0.033	1	
		Connectors		
P1512	VJP1246	6P	1	
P1513	VJP1242	2P	1	
P1514	VJP1229	2P	1	
P1515	VJP1242	2P	1	
	VJB00A55	Front Connection P.C.		
		Board		
		Connectors		
P1508	VJP1246	6P	1	
P1509	VJP1242	2P	1	
P1510	VJP1244	4P	1	
P1511	VJP1243	3P	1	
	VJB00A56	Takeup Photo Transistor		
		P.C. Board		
		Transistor		
Q6552	PN150NV	Photo Transistor	1	
	VMD0091	Transistor Holder	1	
	VJB00A82	Front Loading Motor		
		Connection P.C. Board		
		Capacitor		
C1503	ECKF1H102KB	Ceramic 50V 1000P	1	
		Switches		
	VSM0046		2	Cassette Up/Down SW
	VSM0047		1	Cassette In SW

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Connector		
P1507	VJP1248	8P	1	
	VJB00A94	Supply Photo Transistor		
		P.C. Board		
		Transistor		
Q1502	PN150NV	Photo Transistor	1	
		Capacitor		
C1502	ECKF1H102KB	Ceramic 50V 1000P	1	
	VMD0091	Transistor Holder	1	
	VJB00A98	Rear Jack P.C. Board		
		Resistors		
R1401	ERDS2TJ560	56	1	
R1402	ERDS2TJ271	270	1	NV-850E/EG
R1402	ERDS2TJ101	100	1	NV-850B
R1403	ERDS2TJ560	56	1	
R1404	ERDS2TJ271	270	1	NV-850E/EG
R1404	ERDS2TJ101	100	1	NV-850B
R1405,1406	ERDS2TJ101	100	2	NV-850E/EG
		Capacitors		
C1401,1402	ECKF1H222KB	Ceramic 50V 2200P	2	
		Switchs		
S1401	ESD14130		1	
S1402	ESD14161		1	NV-850E/EG
S1402	ESD14130		1	NV-850B
		Connectors		
P3001	VJP1242	2P	1	
P3002	VJP1243	3P	1	
P3003	VJP1244	4P	1	
P3004	VJP1243	3P	1	NV-850E/EG
P4302	VJP1244	4P	1	NV-850E/EG
P4304	VJP1246	6P	1	
P4306	VJP1243	3P	1	
P4401	VJP1243	3P	1	
		Miscellaneous		
	XTV3+8G	Screw	3	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	VJB00B45	Heater Transformer P.C. Board		
		Transistor		
Q1201	2SD638		1	
		Diode		
D1201	RD15EB	Zener	1	
		Resistor		
R1201	ERDS2TJ222	2.2K	1	
		Transformer		
	TE3045T	Heater Transformer	1	
		Connector		
P1011	VJP1230	3P	1	
	VJB00B46	Power Transistor P.C. Board		
		Transistors		
Q1002	2SD1275		1	⚠
Q1101	2SD1265		1	⚠
		Capacitors		
C1201,1202	ECKF1H103ZF	Ceramic 50V 0.01	2	
		Connectors		
P1005	VJP1243	3P	1	
P1006	VJP1244	4P	1	
		Miscellaneous		
	VSC1064	Power Heat Sink	1	
	XTV3+8J	Screw	3	
	VJB00B64	IR Remote Control Receiver P.C. Board		
		Diode		
D7580	PN313		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Connector		
P7580	VJP1224	2P	1	
	VJB00B78	Cylinder Heater P.C. Board		
		Transistor		
Q1501	2SD1275		1	⚠
		Capacitor		
C1501	ECKF1H103ZF	Ceramic 50V 0.01	1	
		Connector		
P1506	VJP1243	3P	1	
	VJB00976	Sensor LED P.C. Board		
D1501	GL450	LED	1	or LN59
	VMD0465	LED Holder	1	
	VJB01137	Power Transformer P.C. Board		
		Transistor		
Q1103	2SA684		1	⚠
		Diodes		
D1101-1104	10E1		4	⚠
D1105	RD6.8EB	Zener	1	
D1106-1109	10E1		4	⚠
D1111,1112	10E2		2	⚠
D1113	RD30EB	Zener	1	or EQA02ZOC
		Resistors		
R1101	ERDS2TJ391	390	1	
R1103	ERQ14LK1R5	Metal 1.5	1	⚠
R1104	ERDS2TJ392	3.9K	1	
		Capacitors		
C1101	ECEA1CU332	Electrolytic 16V 3300	1	
C1102	ECEA1CU470	Electrolytic 16V 47	1	
C1103	ECEA1EU332	Electrolytic 25V 3300	1	
C1105,1106	ECEA1JU101	Electrolytic 63V 100	2	
C1107	ECEA1HU470	Electrolytic 50V 47	1	
C1108	ECKF1H103ZF	Ceramic 50V 0.01	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Fuses		
F1101	XBA2C05TR0C	500mA	1	⚠
F1102,1103	XBA2C16TR0C	1.6A	2	⚠
		Connectors		
P1001	VJP1231	4P	1	
P1002	VJP1230	3P	1	
P1003	VJP1141	2P	1	
P1004	VJP1231	4P	1	
P7502	VJP1234	7P	1	
		Miscellaneous		
	VJF0052	Binder	1	
	VMX0237	AC Cord Cover	1	⚠
	VGH0079	Power Name Plate	1	
	VJA0111	AC Cord	1	NV-850E/EG⚠
	VJA0112	AC Cord	1	NV-850B⚠
	VMP0371	Transformer Angle	1	⚠
	VJF0107	Bushing	1	⚠
	SJT777	AC Cord Clamp Pin	2	⚠
	TJC6320	Fuse Holder	6	⚠
	VQL322	Spacer	1	
	VJB00C08	IR Remote Control		
		Transmitter P.C. Board		
		Integrated Circuit		
IC1	MN6030B		1	
		Transistor		
Q1	2SD1458		1	
		Diodes		
D1	LN66	LED	1	or SE303A
D3	MA154WK		1	
		Resistors		
R1	ERDS2TJ102	1K	1	
R2	ERDS2TJ473	47K	1	
R3	ERDS2TJ1R0	1	1	
		Capacitors		
C1	ECKF1H471KB	Ceramic 50V 470P	1	
C2	ECKF1H121KB	Ceramic 50V 120P	1	
C3	ECEA0JK101	Electrolytic 6.3V 100	1	
		Crystal Oscillator		
X1	CSB420PB1		1	or EFOK420K05F1
		Switch		
SW1	ESD14126		1	

ORDER NO. VRD-8402-514

Service Manual

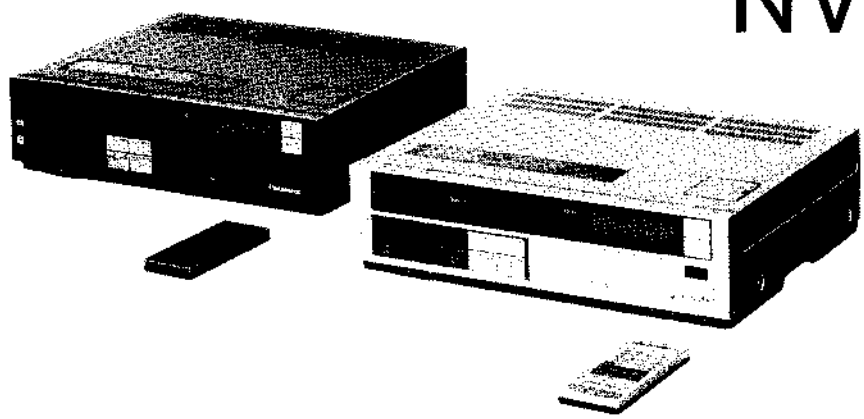
Supplement-1

Parts List

Video Cassette Recorder

Panasonic VHS Hi-Fi

NV-850-E -EG -B



Note: Reflecting the modified specifications of the NV-850-E, EG and B, Parts list of the original Service Manual (VRD-8310-489) has been partially modified. This Service Manual as the revised edition contains the latest parts list prepared as of December 20th, 1983. (Therefore, kindly cancel the former parts list and replace this as a revision or file with original.)

SPECIFICATIONS

Power Source: 220V AC 50/60Hz (NV-850-E/-EG)
240V AC 50/60Hz (NV-850-B)

Power Consumption: Approx. 38 watts

Television System: CCIR: 625 lines, 50 fields
PAL colour signal

Video Recording System: 2 rotary heads, helical scanning system
Luminance: FM azimuth recording
Colour signal: converted subscarrier phase shift recording

Audio Track: 1 track (Normal), Hi-Fi 2CH

Tape Format: Tape width 12.7mm high density tape

Tape Speed: 23.39mm/s

Record/Playback Time: 240min. with NV-E240

FF/REW Time: Less than 5.5min. with NV-E180

Heads:
Video: 3 rotary heads
1 pair for video normal recording and playback (R-L Head)
1 pc. of head for video trick play with L head (field still)
Audio: 1 pair for audio Hi-Fi recording and playback (AR-AL Head)
Audio/Control: 1 stationary head
Erase: 1 full track erase

Input Level:
Video: VIDEO IN connector (BNC) 1.0Vp-p, 75Ω terminated
AV jack (DIN 45482: NV-850-E/-EG) 1.0Vp-p, 75Ω terminated
Audio: LINE IN jack (Phono jack) × 2 More than −20dB, 50kΩ
AV jack (DIN 45482: NV-850-E/-EG) More than −10dB, 10kΩ MIC (M6) −70dB, More than 3.9kΩ
TV Tuners: VHF CH2 ~ CH12 (NV-850-E/-EG)
UHF CH21 ~ CH69

Output Level:
Video: VIDEO OUT connector (BNC) 1.0Vp-p, 75Ω terminated
AV jack (DIN 45482: NV-850-E/-EG) 1.0Vp-p, 75Ω terminated
Audio: LINE OUT jack (Phono jack) −8dB, less than 1kΩ
AV jack (DIN 45482: NV-850-E/-EG) −8dB, less than 1kΩ HEADPHONE jack −34dBV max, 8Ω
RF Modulated: UHF CH36 ± 4
73 ± 3dBμ 75Ω unbalanced

Weight: 9.6kg

Dimensions: 430(W) × 115(H) × 370(D)mm

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

REPLACEMENT PARTS LIST

Note that, those parts indicated as "＊" have been changed from the parts shown in the Remarks.

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
C2034	＊	ECEA1CK470	Electrolytic 16V 47	1	ECEA1CK470UJ

Mark For Changing — New Parts No. — Old Parts No.

1. MECHANICAL SECTION

Notes: 1. ＊ Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified by ⚠ have special characteristics important for safety. When replacing any of these components, use only the original ones.

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
1(1)		VEG0316	DD Cylinder Unit	1	⚠
2(1)		VEH0231	Uppwer Cylinder Unit	1	
3(1)		VJR0094	RT Terminal	1	
4(1)		VMC0051	Cylinder Heater P.C.B.	1	
			Pressure Spring		
5(1)		VBS0030	FE Head	1	
6(1)		VML1544	FE Lever	1	
7(1)		VMB1005	FE Lever Spring	1	
8(1)		VMD0570	Post Stopper	2	
9(1)		VXP0444	Roller Post Unit	2	
10(1)		VXA1964	Inclind Base (S) Unit	1	
11(1)		VXA1965	Inclind Base (T) Unit	1	
12(1)		VHD0133	Screw	2	
13(1)		VXA1963	Loading Base (1) Unit	1	
14(1)		VHD0045	Nut	1	
15(1)		VDP0908	Limiter Roller	1	
16(1)		VMX0288	Collar	1	
17(1)		VMX0456	Lower Limiter	1	
18(1)		VMX0663	Limiter Stand	1	
19(1)		VMB0754	P1 Spring	1	
20(1)		VMA6338	Position Adjust Hook	1	
21(1)		VMA6358	Position Plate	1	
22(1)		VMA4436	Shaft Holder Stopper	1	
23(1)		VXL0753	Loading Arm (L) Unit	1	
24(1)		VXL1152	Loading Arm (R) Unit	1	
25(1)		VMB0669	Loading Spring	2	
26(1)		VXP0520	Loading Gear Unit	2	
27(1)		VXA1966	Inclind Adjustment Plate	1	
28(1)		VHD0054	Adjustment Screw (15)	1	
29(1)		VMB0404	Adjustment Spring	1	
30(1)	＊	VEH0233	A/C Head	1	VBR0233
31(1)		VHD0089B	Azimuth Adjustment Screw	1	
32(1)		VHN0038	Nylon Nut	1	
33(1)		VXA1571	Head Base Unit	1	
34(1)		VMB1189	A/C Height Spring	1	
35(1,2)		VHN0023	M3 Nylon Nut	2	
36(1)		VMX0647	Post Sleeve	1	
37(1)		VMB1235	P4 Spring	1	
38(1)		VMA6357	Chassis Bracket	1	
39(1)		VXS0059	Earth Plate Unit	1	
40(1)		VMA6353	LED Holder Angle	1	
41(1)		VHN0031	"X" Adjustment Nut	1	
42(2)		VXL1157	Tension Arm (1) Unit	1	
43(2)		VMB1187	Tension Spring	1	
44(2)		VXZ0165	Tension Band Unit	1	
45(2)	＊	VXR0118	Supply Reel Table Unit	1	VXR0118A
46(2)		VXZ0159	Brake (S) Unit	1	
47(2)		VMB0661	Brake Arm Spring	1	
48(2)	＊	VXR0119	Takeup Reel Table Unit	1	VXR0119A
49(2)		VXZ0164	T Soft Brake (1) Unit	1	
50(2)		VMB1186	Soft Brake Spring	1	
51(2)		VXZ0161	Brake (T) Unit	1	
52(2)		VML1532	P5 Pull Out Lever	1	
53(2)		VXL1154	Pressure Roller Lever Unit	1	
54(2)		VMB1188	Pin Pressure Spring	1	
55(2)	＊	VXL1170	P5 Arm Unit	1	VXL1187
56(2)	＊	VMB1190	P5 Spring	1	VMB1217
57(2,3)		VMX0653	Cut Washer	14	
58(2)		VMB119B	S Soft Brake Spring	1	
59(2)		VXZ0166	S Soft Brake Arm Unit	1	
60(2)		VXL1169	Select Lever (A) Unit	1	
61(2)		VMB1197	Select Lever Spring	1	
62(2)		VML1533	Select Lever (B)	1	
63(2)		VMS2504	Select Lever Shaft	1	
64(2)		VXP0521	Idler Arm Unit	1	
65(2)		VXA1968	Center Base Plate	1	
66(2)		VES0243	Safety Switch Unit	1	
67(2)		VEK2054	Dew Sensor Unit	1	
68(2)		VJF0004	Wire Saddle	1	
69(2)		VXA1970	Opener Angle Unit	1	
70(2)		VDG0147	Clutch Gear	1	
71(2)		VXP0523	Clutch Gear Unit	1	
72(2)		VDP0951	Clutch Pulley	1	
73(2)		VDG0155	Intermediate Gear (B)	1	
74(2)		VMB1195	Intermediate Gear Lift	1	
			Spring		
75(2)		VDG0156	Intermediate Gear (A)	1	
76(3)		VEM0200	Loading Motor	1	⚠
77(3)		VMA6360	Loading Motor Bracket	1	
78(3)		VMX0251	Oil Seal	1	
79(3)		VMD0104	Oil Pool	1	
80(3)		VXD0087	Housing Unit	1	
81(3)		VDG0146	Intermediate Gear	1	
82(3)		VDG0151	Kick Gear	1	
83(3)		VXA1972	Kick Base (1) Unit	1	
84(3)		VDG0154	Select Gear	1	
85(3)		VXL1167	Select Gear Lever (1) Unit	1	
86(3)		VXL1168	Sector Gear Unit	1	
87(3)		VDG0145	Intermediate Gear	1	
88(3)		VDG0141	Cam Gear	1	
89(3)		VDG0143	Drive Gear (2)	1	
90(3)		VDG0142	Intermediate Pulley Gear	1	
91(3)		VDV0148	Loading Belt	1	
92(3)	＊	VSS0091	Mode Select Switch Unit	1	VES0246
93(3)		VMX0265	Thrust Washer	1	
94(3)		VXP0525	Capstan Rotor Unit	1	
95(3)		VEK2129	Capstan Stator Unit	1	⚠
96(3)		VXP0533	Capstan Pulley Unit	1	
97(3)		VDV0149	Capstan Belt	1	
98(3)		VXZ0168	Capstan Soft Brake Unit	1	
99(3)		VMB1204	Capstan Soft Brake Spring	1	
100(3)		VXA1996	Thrust Support Plate	1	
102(3)		VMX0396	Thrust Screw	1	
103(3)		VEH0213	FG Head Unit	1	
104(3)		VMX0308	Slide Washer	3	
105(3)		VMX0122	Slide Washer	3	
106(3)		VXL1158	Main Lever Unit	1	
107(3)		VMB1185	Kick Lever Spring	1	
108(3)		VMX0672	Cut Washer	1	
109(3)		VMX0644	Washer	1	
110(3)		VMB1184	Clutch Spring	1	
111(3)		VDG0153	Clutch Gear (1)	1	
112(3)		VDG0152	Clutch Gear (2)	1	
113(3)		VXL1165	Arm Lever (1) Unit	1	
114(3)		VMB1183	Sub Lever Spring	1	
115(3)		VXL1160	Sub Lever (1) Unit	1	
116(3)		VMB1192	Select Gear Lever Spring	1	
117(4)		VMA6354	Top Plate	1	
118(4)		VSM0047	Cassette In Detect Switch	1	
119(4)		VHD0580	Remains Display Board (L)	1	
120(4)		VHD0581	Remains Display Board (R)	1	
121(4)		VMB1089	Wiper Spring (L)	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
122(4)		VDG0160	Wiper Gear (L)	1	
123(4)		VML1436	Wiper Arm	1	
124(4)		VMS2305	Slider Roller Pin	2	
125(4)		VDP0839	Guide Roller	2	
126(4)	*	VXA1984	Side Plate (L)(1) Unit	1	VXA1980
127(4)		VMS2468	Slide Roller Pin (2)	2	
128(4)		VDG0120	Intermediate Gear	2	
129(4)		VDG0157	Shaft Gear	2	
130(4)		VML1546	Front Opener Link	1	
131(4)		VMD0091	Transistor Holder	2	
132(4)		VDP0903	Wiper Roller	2	
133(4)		VDP0902	Cassette Holder Roller	2	
134(4)		VMD0452	Cassette Guide	1	
135(4)		VMD0448	Slider (L)	1	
136(4)		VMD0453	Safety Tab	1	
137(4)		VMD0577	Front Guide (L)	1	
138(4)		VMB1091	Safety Spring	1	
139(4)		VMD0454	Spring Holder	1	
140(4)		VMD0450	Slider (R)	1	
141(4)		VMD0576	Front Guide (R)	1	
142(4)	*	VXA1985	Side Plate (R)(1) Unit	1	VXA1981
143(4)		VMS2499	Main Shaft	1	
144(4)		VKF0334	Blinder Panel	1	NV-850E(Black)/
					EG(Black)/B
144(4)		VKF0335	Blinder Panel	1	NV-850E(Silver)/
					EG(Silver)
145(4)		VMB1171	Blinder Panel Spring	1	
146(4)		VMD0455	F. Loading Motor Bracket	1	
147(4)		VDV0074	Loading Belt	1	
148(4)		VXA1754	Worm Shaft Pulley Unit	1	
149(4)		VDB0660	Worm Shaft Holder	1	
150(4)		VML1436	Wiper Arm	1	
151(4)		VDG0116	Wiper Gear (R)	1	
152(4)	*	VMB1090	Wiper Spring (R)	1	VMP1090
153(4)		VMD0456	Stopper Ring	1	
154(4)		VDG0118	Clutch Gear	1	
155(4)		VMX0531	Clutch Spacer	1	
156(4)		VDG0117	Worm Wheel	1	
157(4)		VMB1093	Clutch Spring	1	
158(4)		VMX0530	Clutch Washer	1	
159(4)		VMA6340	Switch Bracket	1	
160(4)		VSM0046	Skeleton Switch	2	
161(5)		VSG1046	Shield Case	1	
162(5)		VJH0287	RF & ANT Board	1	
163(5)		VMA6381	RF & ANT Unit Mount Angle	1	
164(5)		VXA1987	Cassette Comp. Angle (L)	1	
165(5)		VXA1988	Cassette Comp. Angle (R)	1	
167(5)		VGQ0558	Tuner Holder	1	NV-850E/B
168(5)		VMP0370	Top Case Support Angle (A)	3	
169(5)		VKC0055	Hinge (A)	2	
170(5)		VKA0026	Rubber Foot	4	
171(5)		VYP0901	Top Panel Unit	1	NV-850E(Silver)/
					EG(Silver)
171(5)		VYP0905	Top Panel Unit	1	NV-850E(Black)/
					EG(Black)/B
171(5)		VYP0884	Top Panel Unit	1	
172(5)	*	———	Characteristic Sticker	1	VQL2266 (Not available)
172(5)	*	———	Characteristic Sticker	1	VQL2242 (Not available)
173(5)		VKW0280	Top Smoke Board	1	
174(5)		VYF0313	Preset Cover Unit	1	NV-850E(Silver)/
					EG(Silver)
174(5)		VYF0318	Preset Cover Unit	1	NV-850E(Black)/
					EG(Black)
174(5)		VYF0353	Preset Cover Unit	1	NV-850B

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
175(5)		VJP0004	Wire Saddle	1	
176(5)		VJP0122	Wire Saddle	1	
177(5)		VJP0022,	Wire Saddle	1	
178(5)		VHD0117	Screw	4	NV-850E(Silver)/
					EG(Silver)
178(5)		VHD0143	Screw	4	NV-850E(Black)/
					EG(Black)/B
179(5)		VEJ0295	Rear Jack Unit	1	NV-850E/EG
179(5)		VEJ0313	Rear Jack Unit	1	NV-850B
181(5)		VJF0031	Wire Saddle	1	
182(5)		VMP0371	Power Transformer Angle	1	⚠
183(5)		VMT0085	Rubber Cushion	2	
184(5)		VMA6386	Earth Angle	1	
185(3,5)		VJR3	Clamper	3	
186(5)		VGH0079	Power Name Plate	1	
187(5)		VJA0111	AC Cord	1	NV-850E/EG ⚠
187(5)		VJA0112	AC Cord	1	NV-850B ⚠
188(5)		VJF0107	AC Cord Bushing	1	⚠
189(5)		VJF0139	AC Cord Clamper	1	
				1	
				1	
193(5)		VKC0102	Hinge (B)	1	
194(5)		VKC0107	Hinge (C)	1	
195(5)		VGU1027	VR Knob	3	
196(5)		VMP0403	Top Case Support Angle (B)	1	
197(5)		VHD0059	Screw	9	
198(5)		VKU0205	Bottom Plate	1	
200(5)		VGU1128	Function Select Button	1	
201(5)		VYP0898	Front Panel Unit	1	NV-850E(Silver)
201(5)		VYP0957	Front Panel Unit	1	NV-850B
201(5)		VYP0904	Front Panel Unit	1	NV-850E(Black)
201(5)		VYP0906	Front Panel Unit	1	NV-850EG(Silver)
201(5)		VYP0907	Front Panel Unit	1	NV-850EG(Black)
202(5)		VGU1088	Memory/Reset Button	2	
203(5)		VGQ0578	Cushion	1	
204(5)		VGU1073	Audio Dub/Rec mute Button	2	
205(5)		VGU1074	Multiplex Button	4	
206(5)		VMB1043	Button Spring (A)	4	
207(5)		VGU0595	Timer Rec Button	1	
208(5)		VMB1086	Button Spring (B)	1	
209(5)		VKC0111	Latch	1	
210(5)		VYF0315	Timer Door Unit	1	NV-850E(Silver)/
					EG(Silve)
210(5)		VYF0317	Timer Door Unit	1	NV-850E(Black)/
					EG(Black/B
211(5)		VGQ0580	Hinge (L)	1	NV-850E(Silver)/
					EG(Silve)
211(5)		VGQ0593	Hinge (R)	1	NV-850E(Black)/
					EG(Black/B
212(5)		VGQ0579	Hinge (R)	1	NV-850E(Silver)/
					EG(Silve)
212(5)		VGQ0592	Hinge (R)	1	NV-850E(Black)/
					EG(Black/B
213(5)		VGQ0415	Preset VR Case	1	
214(5)		VGN1993	Preset VR Plate	1	NV-850EG
214(5)		VGN2054	Preset VR Plate	1	NV-850B
215(6)		VSQ0327	Remote Control Unit	1	NV-850E(Silver)/
					EG(Silve)
215(6)		VSQ0338	Remote Control Unit	1	NV-850E(Black)/
					EG(Black/B
216(6)		VQF1157	Fan Bag Kit	1	NV-850E(Silver) ⚠
216(6)		VQF1160	Fan Bag Kit	1	NV-850E(Black) ⚠

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
216(6)		VQF1159	Fan Bag Kit	1	NV-850EG(Black)⚠
216(6)		VQF1158	Fan Bag Kit	1	NV-850B ⚠
216(6)		VQF1197	Fan Bag Kit	1	NV-850EG(Silver)⚠
217(6)		VPN0958	Cushion (L)	1	
218(6)		VPN0957	Cushion (R)	1	
219(6)		VPF0144	Polyethylene Bag	1	
220(6)		VPG1572	Packing Case	1	NV-850E(Silver)
220(6)		VPG1571	Packing Case	1	NV-850E(Black)
220(6)		VPG1619	Packing Case	1	NV-850EG(Silver)
220(6)		VPG1574	Packing Case	1	NV-850EG(Black)
220(6)		VPG1573	Packing Case	1	NV-850B
221(6)		VJA0231	Audio Cable	2	
222(6)		VJA0130	DIN RF Cable	1	
229(4)		VGQ0571	Spacer	2	
230(5)		VKC0076	Hinge(D)	2	
231(1)		VMD0369	Wire Holder	1	
232(4)		VXA2054	Cassette Holder (1) Unit	1	
233(3)		VMT0101	Stopper Cushion	1	
234(3)		VHD0146	Screw	1	
235(5)		VMP0419	Decoder P.C.B. Angle	1	
236(1)		VXA2006	Stator Angle Unit	1	
237(1)		VXA2004	RT Rotor Base Unit	1	
239(5)		VKC0083	Hinge (E)	1	
240(4)		MXN12AE10C	Front Loading Motor	1	⚠
241(5)		VMG0272	RF Converter Bushing	1	
242(5)		VMX0573	Spacer	8	
243(5)		VMX0237	AC Cord Cover	1	⚠
244(5)		VMZ0562	Barrier	1	⚠
245(5)		VSC1064	Power Heat Sink	1	
246(5)		VMB0758	Tr. Clamper	1	
247(5)		VKC0109	Hinge (F)	2	
248(5)		VJF0175	P.C. Board Supporter	1	
249(5)		VKC0068	Hinge (G)	2	
250(5)		VJF0108	Rivet	2	
251(5)		VXA2062	Barrier	1	
252(5)		VTP0105	Power Transformer	1	NV-850E/EG ⚠
252(5)		VTP0104	Power Transformer	1	NV-850B ⚠
261(7)		VYK0655	Top Case Unit	1	NV-850E(Silver)/
					EG(Silver)
261(7)		VYK0657	Top Case Unit	1	NV-850E(Black)/
					EG(Black)/B
262(7)		VJR0101	Electrode (Common)	1	
263(7)		VJR0100	Electrode (-)	1	
264(7)		VJR0099	Electrode (+)	1	
265(7)		VGU1204	Play Button	1	NV-850E(Silver)/
					EG(Silver)

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
265(7)		VGU1288	Play Button	1	NV-850E(Black)/
					EG(Black)/B
266(7)		VGU1205	Stop Button	1	NV-850E(Silver)/
					EG(Silver)
266(7)		VGU1289	Stop Button	1	NV-850E(Black)/
					EG(Black)/B
267(7)		VGU1209	FF Button	1	NV-850E(Silver)/
					EG(Silver)
267(7)		VGU1293	FF Button	1	NV-850E(Black)/
					EG(Black)/B
268(7)		VGU1208	Rew Button	1	NV-850E(Silver)/
					EG(Silver)
268(7)		VGU1292	Rew Button	1	NV-850E(Black)/
					EG(Black)/B
269(7)		VGU1207	F. Adv Button	1	NV-850E(Silver)/
					EG(Silver)
269(7)		VGU1291	F. Adv Button	1	NV-850E(Black)/
					EG(Black)/B
270(7)		VGU1206	Still Button	1	NV-850E(Silver)/
					EG(Silver)
270(7)		VGU1290	Still Button	1	NV-850E(Black)/
					EG(Black)/B
272(7)		VGU2212	Rec Button A (Red)	1	
273(7)		VGU2211	CH Select & Rec B Button	1	NV-850E(Silver)/
					EG(Silver)
273(7)		VGU1335	CH Select & Rec B Button	1	NV-850E(Black)/
					EG(Black)/B
274(7)	*	VGU1213	Power Button	1	VGU2213
275(7)	*	VGQ0601	Button Holder	1	VGU0656
276(7)		VGU1210	VTR Button	1	NV-850E(Silver)/
					EG(Silver)
276(7)		VGU1294	VTR Button	1	NV-850E(Black)/
					EG(Black)/B
277(7)		VSP0150	Rubber Contact	1	
278(7)		VKF0340	Battery Cover	1	
279(7)		VKW0297	Smoke Board	1	
280(7)		VYK0656	Bottom Case Unit	1	NV-850E(Silver)/
					EG(Silver)
280(7)		VYK0658	Bottom Case Unit	1	NV-850E(Black)/
					EG(Black)/B
281(7)	*	XTN2+5B	Screw	1	XTB2+5G
			Screws		
401(1)	*	XSN3+8BNS,XWG3BW		2	XYNV3+B8BNS
402(1)	*	XTN26+6B		1	XTN26+6G
403(1)		XYE3+BF15FZ		4	
404(1)	*	XSN3+8BVS,XWGV3FZ,XWA4BFZ		2	XYN3+F8F2S
405(1,2,3,4,5)		XTV3+8F		23	
406(1)		XSS26+6		1	
407(1,3,4,5)		XTV3+6F		7	
408(1)	*	XSN3+6BVS,XWG4FZ,XWA4BFZ		1	XYN3+F6F2S
409(1,4)	*	XSN3+4,XWA3B		3	XYN3+C4S
410(1)	*	XSN3+10BVS		1	XSN3D10FZS
411(1,3)	*	XTV3+8BFZ		3	XTV3+8FFZ
412(1)	*	XSN3+8,XWA3B		3	XYN3+C8S
413(2,4)		XYE3+EF8		1	
414(2)		XYE3+BF9FZ		2	
416(3)		XYE3+BF8FZ		1	
417(4)	*	XTV3+8BFN		4	XTS3+8F
418(4)		XTB3+8GK		4	
419(4)		XTB3+8FK		6	
420(4)	*	XYE3+EF6		1	XYE3+FE6
421(4)		XYN2+F10		2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
422(1,5)		XTV3+8JR		5	
423(5)	*	XSN3+8S,XWA3B,XWG3		4	XYN3+F8RS
424(5)		XTV3+10GR		13	
425(5)	*	XTV4+30BFN		3	XTV4+30A
426(5)		XTV3+8G		2	
427(5)		XTV3+10JFZ		4	
428(5)		XSB3+8FZS		2	
429(5)		XTV4+15A		1	
430(5)		XTV3+8JZF		2	
431(5)		XTW3+8PR		3	
432(4)		XTV3+8FR		1	
433(4)		XYE3+EF10		2	
434(5)	*	————		0	XTS23+6J (Miss printed)
435(5)		XTV3+10G		1	
436(5)		XTV3+8F		1	
437(5)		XTV3+8J		8	
438(5)		XTV3+8GR		2	
439(1)		XYN3+A14		2	
440(1)	*	XSN3+10S,XWA3B		2	EYN3+C10
			Washers & Rings		
501(1,2,3)		XUBV4WW		14	
502(1)		XWE5		1	
503(2,3)		XUBV3WW		7	
504(2,3)		XWGV3D7G		10	
505(2)		XWGV6F9G		1	
506(2,3,4)		XWGV4D9G		6	
507(2)		XUC15FF		1	
508(2)		XWGV3D12G		1	
509(3)		XWGV4D11G		3	
510(4)		XUC3FF		7	
511(4)		XUC25FF		3	
512(2)		XWGV3D8G		2	
513(3)		XWGV3Y6G		2	
514(2)		XWGV3D54G		2	
515(3)		XWGV5Y9G		1	
516(4)		XWGV3F6G		1	

2. ELECTRICAL SECTION

Notes: 1. • Be sure to make your orders of replacement parts according to this list.
2 IMPORTANT SAFETY NOTICE
Components identified by ⚠ have special characteristics important for safety. When replacing any of these components, use only the original ones.
3. Unless otherwise specified.
All resistors are in OHMS (Ω), 1/4W ±5% carbon. K=1,000Ω, M=1,000KΩ. All capacitors are in MICROFARADS (μF), ±10% P=μμF.

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
		VEP03197A	Main [Power Supply, Servo, Luminance (1), Chrominance, Audio & System Control] P.C. Board Unit	1	NV-850EG⚠
		VEP03197B	Main [Power Supply, Servo, Luminance (1), Chrominance, Audio & System Control] P.C. Board Unit	1	NV-850B⚠
		VEP03197C	Main [Power Supply, Servo, Luminance (1), Chrominance, Audio & System Control] P.C. Board Unit	1	NV-850E⚠
		VEP05053A	Head Amp & Luminance (2) P.C. Board Unit	1	
		VEP06212A	Operation P.C. Board Unit	1	
		VEP07186G	TV Demodulator P.C. Board Unit	1	NV-850E⚠
		VEP07186H	TV Demodulator P.C. Board Unit	1	NV-850B⚠
		VEP07193A	TV Demodulator P.C. Board Unit	1	NV-850EG⚠
		VEP07194A	Decoder P.C. Board Unit	1	NV-850EG
		VEP07195A	Timer P.C. Board Unit	1	NV-850E/EG
		VEP07195B	Timer P.C. Board Unit	1	NV-850B
		VEP07196A	Timer Operation P.C. Board Unit	1	NV-850E/EG
		VEP07196B	Timer Operation P.C. Board Unit	1	NV-850B
		VEP00A99A	FM Aduio Main P.C. Board Unit	1	
		VEP00B01A	FM Audio Sub P.C. Board Unit	1	NV-850EG
		VEP00B01B	FM Audio Sub P.C. Board Unit	1	NV-850B
		VEP00B01C	FM Audio Sub P.C. Board Unit	1	NV-850E
		ENC87751	RF Converter Unit	1	NV-850E/EG⚠
		ENC87752	RF Converter Unit	1	NV-850B⚠

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
		VJB00A53	Reel Sensor P.C. Board	1	
		VJB00A54	Loading Motor Connection P.C. Board	1	
		VJB00A55	Front Connection P.C. Board	1	
		VJB00A56	Takeup Photo Transistor P.C. Board	1	
		VJB00A82	F. Loading Motor Connection P.C. Board	1	
		VJB00A94	Supply Photo Transistor P.C. Board	1	
		VJB00A98	Rear Jack P.C. Board	1	
		VJB00B45	Heater Transformer P.C. Board	1	
		VJB00B46	Power Transistor P.C. Board	1	
		VJB00B47	Head Phone P.C. Board	1	
		VJB00B64	IR Remote Control Reciever P.C. Board	1	
		VJB00B78	Cylinder Heater P.C. Board	1	
		VJB00976	Sensor LED P.C. Board	1	
		VJB01137	Power Transformer P.C. Board	1	⚠
	*	VEP00C08	IR Remote Control Transmitter P.C. Board	1	VJB00C08
		VTP0105	Power Transformer	1	NV-850E/EG⚠
		VTP0104	Power Tansformer	1	NV-850L⚠
		VMZ0562	Barrier	1	⚠
		XTV4+8F	Screw	1	
		VJF0052	Binder	5	
		VJF0055	Binder	6	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	VEP03197A/	Main[Power Supply,Servo,		
	B/C	Luminance (1),		
		Chrominance, Audio &		
		System Control]P.C.Board		
		Unit		
		(Power Supply Section)		
		Transistors		
Q1001	2SD636		1	(Q,R,S,T) or 2SC2021M
				(Q,R,S,E)
Q1003	2SD636		1	(Q,R,S,T) or 2SC2021M
				(Q,R,S,E)
Q1102	2SD1265		1	⚠
		Diodes		
D1002	RD3.9EB1	Zener	1	
D1003,1004	MA165		2	
D1110	RD13EB3	Zener	1	
		Resistors		
R1001	ERQ14LKR39	Metal 0.39	1	⚠
R1002	ERDS2TJ471	470	1	
R1003	EVN38CA00B53	Variable 5K	1	
R1004	ERDS2TJ392	3.9K	1	
R1005	ERQS2CKG3901	Metal 3.9K	1	
R1006	ERQS2CKG3001	Metal 3K	1	
R1007	ERDS2TJ103	10K	1	
R1008	ERDS2TJ682	6.8K	1	
R1009	ERDS2TJ472	4.7K	1	
R1010	ERQS2CKG1800	Metal 180	1	
R1102	ERDS2TJ152	1.5K	1	
		Capacitors		
C1002	ECEA0JK470	Electrolytic 6.3V 47	1	
C1003	ECEA1HU470	Electrolytic 50V 47	1	or ECEA1HS470
C1104	ECEA1CK470	Electrolytic 16V 47	1	
C1004	ECEA0JU470	Electrolytic 6.3V 47	1	
		(Servo Section)		
		Integrated Circuits		
IC2001	AN6359N		1	
IC2002	MN6168VIF		1	
IC2003	AN6356N		1	
IC2004	AN3822		1	
IC2005	AN6387		1	
IC2007	BA855		1	
IC2008	AN6342N		1	
IC2009	BA6323L		1	
IC2010	μPC358C		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Transistors		
Q2001,2002	2SD636		2	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
Q2003	2SB641		1	(P,Q,R,S)
				or 2SA937M(Q,R,S)
Q2004	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M (Q,R,S,E)
Q2005	2SB641		1	(P,Q,R,S)
				or 2SA937M (Q,R,S)
Q2006	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
		Combination Parts		
		(Transistor & Resistor)		
QR2001-2003	DTC144A		3	or UN1213
QR2004	DTA144A		1	or UN1113
QR2006,2007	DTC144A		2	or UN1213
QR2008,2009	DTA144A		2	or UN1113
QR2010	DTC144A		1	or UN1213
		Diodes		
D2001,2002	MA165		2	
D2003	10E1		1	or ERA12O1G1
D2004	MA154WK		1	
D2005-2007	MA165		3	
D2009-2014	MA165		6	
		Resistors		
R2001	ERDS2TJ223	22K	1	
R2002	ERDS2TJ272	2.7K	1	
R2003	ERDS2TJ472	4.7K	1	
R2004	ERDS2TJ154	150K	1	
R2005	ERDS2TJ333	33K	1	
R2006	ERDS2TJ154	150K	1	
R2007	ERDS2TJ332	3.3K	1	
R2008	ERDS2TJ124	120K	1	
R2009	ERDS2TJ154	150K	1	
R2010	ERDS2TJ563	56K	1	
R2011	ERDS2TJ103	10K	1	
R2012	ERDS2TJ274	270K	1	
R2013	ERDS2TJ682	6.8K	1	
R2014	ERDS2TJ222	2.2K	1	
R2015	EVJ1EAF20B15	Variable 100K	1	
R2016	EVN61AA00B15	Variable 100K	1	
R2017	ERDS2TJ102	1K	1	
R2018	EVN61AA00B54	Variable 50K	1	
R2019	ERDS2TJ153	15K	1	
R2020	ERDS2TJ223	22K	1	
R2021	ERDS2TJ391	390	1	
R2022	ERDS2TJ563	56K	1	
R2023	ERDS2TJ473	47K	1	
R2024,2025	ERDS2TJ223	22K	2	
R2026	ERDS2TJ104	100K	1	
R2027	ERDS2TJ393	39K	1	
R2028	ERDS2TJ124	120K	1	
R2029	ERDS2TJ222	2.2K	1	
R2030,2031	ERDS2TJ103	10K	2	
R2032	ERDS2TJ562	5.6K	1	
R2033	ERDS2TJ103	10K	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
R2034		ERDS2TJ105			1M	1	
R2035		ERX12ANJR82	Metal	1/2W	0.82	1	
R2036		ERDS2TJ102			1K	1	
R2037		ERDS2TJ103			10K	1	
R2038-2040		ERDS2TJ224			220K	3	
R2041		ERDS2TJ181			180	1	
R2042		ERDS2TJ104			100K	1	
R2043		ERDS2TJ124			120K	1	
R2044		ERX12ANJR68	Metal	1/2W	0.68	1	
R2045-2047		ERDS2TJ150			15	3	
R2049		ERQ12HJ6R8	Metal	1/2W	6.8	1	⚠
R2050		ERDS2TJ563			56K	1	
R2055		ERDS2TJ105			1M	1	
R2056		ERDS2TJ183			18K	1	
R2057		ERDS2TJ103			10K	1	
R2058		ERDS2TJ333			33K	1	
R2059		ERDS2TJ102			1K	1	
R2060		ERDS2TJ472			4.7K	1	
R2063		ERDS2TJ102			1K	1	
R2064		ERDS2TJ184			180K	1	
R2065		ERDS2TJ473			47K	1	
R2066		EVN61AA00B54	Variable		50K	1	
R2067		ERDS2TJ184			180K	1	
R2068		ERDS2TJ154			150K	1	
R2069		ERDS2TJ683			68K	1	
R2070		ERDS2TJ184			180K	1	
R2071		ERDS2CKG5102	Metal		51K	1	
R2072		EVTK4CA00B15	Variable		100K	1	
R2073		EVN3ACA00B54	Variable		50K	1	
R2074		ERDS2TJ563			56K	1	
R2075		ERDS2TJ151			150	1	
R2076		ERDS2TJ153			15K	1	
R2077		ERDS2TJ222			2.2K	1	
R2078		ERDS2TJ223			22K	1	
R2079,2080		ERDS2TJ563			56K	2	
R2081		ERDS2TJ273			27K	1	
R2082		ERDS2TJ223			22K	1	
R2083		ERDS2CKG3002	Metal		30K	1	
R2084		ERDS2TJ102			1K	1	
R2085		EVN61AA00B15	Variable		100K	1	
R2087		ERDS2TJ102			1K	1	
R2088		ERDS2TJ562			5.6K	1	
R2089		ERDS2TJ472			4.7K	1	
R2090		ERDS2TJ564			560K	1	
R2091		ERDS2TJ561			560	1	
R2092		ERDS2TJ104			100K	1	
R2093		ERDS2TJ105			1M	1	
R2094		ERDS2TJ102			1K	1	
			Capacitors				
C2001		ECQV1H104JZ	Mylar	50V	0.1	1	
C2003		VCYG1E562JR	Semiconductor	25V	5600P	1	
C2004		ECEA1HK0R1	Electrolytic	50V	0.1	1	
C2005		ECQB1H223KH	Mylar	50V	0.022	1	
C2006		ECEA0JK101	Electrolytic	6.3V	100	1	
C2007		VCYG1E562JR	Semiconductor	25V	5600P	1	
C2008		ECEA1HK0R1	Electrolytic	50V	0.1	1	
C2009		ECEA0JK330	Electrolytic	6.3V	33	1	
C2010		ECEA1HK010	Electrolytic	50V	1	1	
C2011		ECQV1H334JZ	Mylar	50V	0.33	1	
C2012		ECQV1H683JZ	Mylar	50V	0.068	1	
C2013		ECKF1H472ZF	Ceramic	50V	4700P	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
C2014,2015		ECEA1CK100	Electrolytic	50V	10	2	
C2016		ECEA0JK470	Electrolytic	6.3V	47	1	
C2017		ECEA10Z100	Electrolytic	10V	10	1	
C2018		ECQV1H104JZ	Mylar	50V	0.1	1	
C2019		ECEA0JK101	Electrolytic	6.3V	100	1	
C2020		ECQV1H104JZ	Mylar	50V	0.1	1	
C2021		ECEA1HK010	Electrolytic	50V	1	1	
C2022-2024		ECKF1H272KB	Ceramic	50V	2700P	3	
C2025-2027		ECEA1EK4R7	Electrolytic	25V	4.7	3	
C2028		ECKF1H222KB	Ceramic	50V	2200P	1	
C2029		VCYG1E682JR	Semiconductor	25V	6800P	1	
C2030		ECKF1H103ZF	Ceramic	50V	0.01	1	
C2031		ECEA1HKR22	Electrolytic	50V	0.22	1	
C2032		VCYG1E123JR	Semiconductor	25V	0.012	1	
C2033		ECEA1EK3R3	Electrolytic	25V	3.3	1	
C2034	*	ECEA1CK470	Electrolytic	16V	47	1	ECEA1CK470U
C2035-2037	*	ECEA1EN4R7S	Electrolytic	25V	4.7	3	ECEA1EN4R7SE
C2038		ECEA1HKN010	Electrolytic	50V	1	1	
C2039		ECKF1H152KB	Ceramic	50V	1500P	1	
C2040		ECEA1HK0R1	Electrolytic	50V	0.1	1	
C2041		ECQB1H222KH	Mylar	50V	2200P	1	
C2042		ECKF1H103ZF	Ceramic	50V	0.01	1	
C2046		ECEA1EKN2R2	Electrolytic	25V	2.2	1	
C2047		ECEA1HK010	Electrolytic	50V	1	1	
C2048		ECEA1CK100	Electrolytic	16V	10	1	
C2049		VCYG1E103JR	Semiconductor	25V	0.01	1	
C2050		VCYG1E123JR	Semiconductor	25V	0.012	1	
C2051		ECQV1H104JZ	Mylar	50V	0.1	1	
C2052		ECEA0JK470	Electrolytic	6.3V	47	1	
C2053		VCYG1E682JR	Semiconductor	25V	6800P	1	
C2054		ECEA16Z10	Electrolytic	16V	10	1	
C2055		VCYG1E103JR	Semiconductor	25V	0.01	1	
C2056,2057		ECQV1H124JZ	Mylar	50V	0.12	2	
C2058		ECQV1H154JZ	Mylar	50V	0.15	1	
C2059		ECQV1H124JZ	Mylar	50V	0.12	1	
C2060		ECQB1H272KH	Mylar	50V	2700P	1	
C2061		ECQB1H822KH	Mylar	50V	8200P	1	
C2062		ECQB1H682KH	Mylar	50V	6800P	1	
C2063		VCYG1E103JR	Semiconductor	25V	0.01	1	
C2064		ECEA1CK100	Electrolytic	16V	10	1	
C2065		VCYG1E103JR	Semiconductor	25V	0.01	1	
C2066		ECEA1HK010	Electrolytic	50V	1	1	
C2067		ECQB1H103KH	Mylar	50V	0.01	1	
C2068		ECQV1H104JZ	Mylar	50V	0.1	1	
C2069,2070		ECEA0JK101	Electrolytic	6.3V	100	2	
C2071		ECEA1CK470	Electrolytic	16V	47	1	
C2072		ECEA0JK101	Electrolytic	6.3V	100	1	
C2073		ECEA1EU470	Electrolytic	25V	47	1	or ECEA1ES470
			Combination Circuits				
			(Capacitor & Resistor)				
CR2001	*	EXBD472M104C	4700P, 100K			1	EXBD472M104T
CR2002	*	EXBD223M222C	0.022, 2.2K			1	EXBD223M222T
			(Luminance (1) Section)				
			Integrated Circuits				
IC3001		BA7004				1	
IC3050		AN6328				1	

Ref. No.		Part No	Part Name & Description	Pcs / Set	Remarks
			Transistors		
Q3001		2SC2206		1	
Q3002		2SD636		1	(P,Q,R,S,T)
					or 2SC2021M(Q,K,S,E)
Q3004		2SB641		1	(P,Q,R,S,T) NV-850E/EG
Q3005		2SD636		1	(P,Q,R,S,T) NV-850E/EG
Q3006		2SD638		1	(P,Q,R,S,T) NV-850E/EG
			Combination Parts		
			(Transistor & Resistor)		
QR3001		DTC124A		1	or UN1212 NV-850E/EG
QR3002		DTC114A		1	NV-850E/EG
QR3003		DTC124A		1	or UN1212 NV-850E/EG
QR3004		DTC124A		1	or UN1212
			Diodes		
D3001		MA154WK		1	
D3002		MA165		1	
D3003		MA154WK		1	
D3004,3005		MA165		2	
D3006-3008		MA165		3	
D3009-3012		MA165		4	
D3013		MA165		1	NV-850B
D3014		MA165		1	
			Resistors		
R3001		ERDS2TJ103	10K	1	
R3002		ERDS2TJ392	3.9K	1	
R3003		ERDS2TJ152	1.5K	1	
R3004		ERDS2TJ102	1K	1	
R3005		ERDS2TJ331	330	1	
R3006		ERDS2TJ103	10K	1	
R3007		ERDS2TJ223	22K	1	
R3008		ERDS2TJ822	8.2K	1	
R3009,3010		ERDS2TJ102	1K	2	
R3011		ERDS2TJ152	1.5K	1	
R3012		ERDS2TJ561	560	1	
R3013		ERDS2TJ102	1K	1	
R3015		ERDS2TJ750	75	1	
R3017		ERDS2TJ750	75	1	
R3018		EVJ1EAF20B23	Variable 2K	1	
R3019		ERDS2TJ103	10K	1	
R3020		ERDS2TJ333	33K	1	NV-850E/EG
R3024		ERDS2TJ181	180	1	NV-850E/EG
R3025		ERDS2TJ820	82	1	NV-850E/EG
R3026		ERDS2TJ563	56K	1	NV-850E/EG
R3029		ERDS2TJ822	8.2K	1	NV-850E/EG
R3030		ERDS2TJ222	2.2K	1	NV-850E/EG
R3031		ERDS2TJ472	4.7K	1	NV-850E/EG
R3032		ERDS2TJ332	3.3K	1	NV-850E/EG
R3033		ERDS2TJ821	820	1	NV-850E/EG
R3034		ERDS2TJ180	18	1	NV-850E/EG
R3035		ERDS2TJ391	390	1	NV-850E/EG
R3036		ERDS2TJ681	680	1	
R3037		ERDS2TJ271	270	1	
R3051		ERDS2TJ101	100	1	
R3052		ERDS2TJ122	1.2K	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
R3053		ERDS2TJ560			56	1	
R3054		ERDS2TJ680			68	1	
R3055		ERDS2TJ122			1.2K	1	
R3056		EVN61AA00B23	Variable		2K	1	
R3057		ERDS2TJ182			1.8K	1	
R3058		ERDS2TJ121			120	1	
R3059		ERDS2TJ471			470	1	
R3060		ERDS2TJ821			820	1	
R3061		ERDS2TJ102			1K	1	
R3062		ERDS2TJ391			390	1	
R3063		ERDS2TJ122			1.2K	1	
			Capacitors				
C3001		ECEA1CK100	Electrolytic	16V	10	1	
C3002		ECEA1CK470	Electrolytic	16V	47	1	
C3003		ECEA1AU331	Electrolytic	10V	330	1	or ECEA1AS331
C3004		ECEA1AKN470	Electrolytic	10V	47	1	
C3005,3006		ECEA1CK100	Electrolytic	16V	10	2	
C3007,3008		VCYG1E332KR	Semiconductor	25V	3300P	2	
C3009		ECCF1H390KC	Ceramic	50V	39P	1	
C3020		ECEA1CK330	Electrolytic	16V	33	1	NV-850E/EG
C3023		ECEA1CK330	Electrolytic	16V	33	1	NV-850E/EG
C3024		ECEA1CU101	Electrolytic	16V	100	1	or ECEA1CS101
							NV-850E/EG
C3026		ECQV1H274JZ	Mylar	50V	0.27	1	NV-850E/EG
C3051		ECEA1AK470	Electrolytic	10V	47	1	
C3052		ECEA1HK010	Electrolytic	50V	1	1	
C3053		ECEA1HKN010	Electrolytic	50V	1	1	
C3054	*	ECEA1HN010S	Electrolytic	50V	1	1	ECEA1HK010S
C3055		ECKF1H122KB	Ceramic	50V	1200P	1	
C3056		ECEA1AK470	Electrolytic	10V	47	1	
C3057		ECKF1H391KB	Ceramic	50V	390P	1	
C3058		ECCF1H680J	Ceramic	50V	68P	1	
C3059		ECKF1H331KB	Ceramic	50V	330P	1	
C3060		ECKF1H151KB	Ceramic	50V	150P	1	
C3061		ECCF1H820KC	Ceramic	50V	82P	1	
C3062,3063		ECKF1HJ03ZF	Ceramic	50V	0.01	2	
C3065		VCKG1H561JA	Semiconductor	50V	560P	1	
C3066		ECEA1AU221	Electrolytic	10V	220	1	or ECEA1AS221
C3067		ECCF1H470JC	Ceramic	50V	47P	1	
C3068		ECCF1H330JC	Ceramic	50V	33P	1	
C3069		ECKF1H391KB	Ceramic	50V	390P	1	
			Coils				
L3001,3002		VLQEL05F101K			100μH	2	
L3003		VLQEL05F101K			100μH	1	NV-850E/EG
L3051		VLQEL05F101K			100μH	1	
L3052		VLQEL05F6R8K			6.8μH	1	
L3053		VLQEL05F330K			33μH	1	
L3054		VLQEL05F680K			68μH	1	
L3055		VLQEL05F101K			100μH	1	
L3056		VLQEL05F680K			68μH	1	
L3057		VLQEL05F180K			18μH	1	
			Filter				
FL3001		VLF0188				1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Crystal Oscillator		
X3001		VSX0099		1	
			Switch		
S3001		VSS0095		1	
			(Audio Section)		
			Integrated Cricuits		
IC4001		TA7355P		1	
IC4002		μPC1514CA		1	
IC4101		AN6262		1	
			Transistors		
Q4001		2SD639		1	(R)
Q4002		2SD655		1	(E) or (F)
Q4101		2SB745		1	(R,S,T)
Q4102		2SD636		1	(P,Q,R,S,T)
Q4105		2SD636		1	(P,Q,R,S,T)
Q4106		2SD639		1	(R)
Q4107		2SD655		1	(E,F)
			Combination Circuits		
			(Transistor & Resistor)		
QR4103,4104		DTC124A		2	or UN1212
			Diodes		
D4101,4102		MA165		2	
			Resistors		
R4001		ERDS2TJ104	100K	1	
R4002		ERDS2TJ331	330	1	
R4003		ERDS2TJ124	120K	1	
R4004		ERDS2TJ332	3.3K	1	
R4005		ERDS2TJ100	10	1	
R4006		EVN61AA00B13	Variable 1K	1	
R4007		ERDS2TJ103	10K	1	
R4008		ERDS2TJ473	47K	1	
R4009		ERDS2TJ222	2.2K	1	
R4011		ERDS2TJ123	12K	1	
R4012		ERDS2TJ103	10K	1	
R4013	*	ERDS1TJ335	1/2W 3.3M	1	ERDS1TJ335S
R4014		ERDS2TJ221	220	1	
R4015		ERDS2TJ472	4.7K	1	
R4016		ERDS2TJ182	1.8K	1	
R4017		ERDS2TJ153	15K	1	
R4018		EVN61AA00B15	Variable 100K	1	
R4019		ERDS2TJ223	22K	1	
R4021		ERDS2TJ102	1K	1	
R4023		ERDS2TJ561	560	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R4101		ERDS2TJ472	4.7K	1	
R4102		ERDS2TJ104	100K	1	
R4103		ERDS2TJ333	33K	1	
R4104		ERDS2TJ104	100K	1	
R4105		ERDS2TJ221	220	1	
R4106		ERDS2TJ223	22K	1	
R4107		ERDS2TJ103	10K	1	
R4108		ERDS2TJ473	47K	1	
R4109		ERDS2TJ332	3.3K	1	
R4112		EVK06F025B53	Variable 5K	1	
R4113		ERDS2TJ102	1K	1	
R4114		ERDS2TJ332	3.3K	1	
R4115		ERDS2TJ562	5.6K	1	
R4116		ERDS2TJ102	1K	1	
R4117		ERDS2TJ332	3.3K	1	
R4118		ERDS2TJ562	5.6K	1	
R4119,4120		ERDS2TJ102	1K	2	
R4121		ERDS2TJ224	220K	1	
R4122		ERDS2TJ223	22K	1	
R4123		ERDS2TJ473	47K	1	
R4124		ERDS2TJ223	22K	1	
R4125		ERDS2TJ333	33K	1	
R4126		ERDS2TJ102	1K	1	
R4128		ERDS2TJ102	1K	1	
R4129		ERDS2TJ473	47K	1	
			Capacitors		
C4001		ECEA1CK100	Electrolytic 16V 10	1	
C4002		ECEA1AU221	Electrolytic 10V 220	1	or ECEA1AS221
C4003		ECQB1H102KH	Mylar 50V 1000P	1	
C4004		ECEA1CK100	Electrolytic 16V 10	1	
C4005		ECEA1AK330	Electrolytic 10V 33	1	
C4006		ECQB1H333KH	Mylar 50V 0.033	1	
C4008		ECEA1HK010	Electrolytic 50V 1	1	
C4009		ECEA1AK330	Electrolytic 10V 33	1	
C4010		ECEA1CK100	Electrolytic 16V 10	1	
C4011		ECEA0JK470	Electrolytic 6.3V 47	1	
C4012	*	ECQB1H223KH	Mylar 50V 0.022	1	ECQM1H223KH
C4013		VCYG1E153KX	Semiconductor 25V 0.015	1	
C4014		ECKF1H472ZF	Ceramic 50V 4700P	1	
C4015		ECQP6222KZ	Mylar 630V 2200P	1	
C4016		ECEA1CK100	Electrolytic 16V 10	1	
C4017		ECCD2H181K	Ceramic 500V 180P	1	
C4018		ECQV1H683JZ	Mylar 50V 0.068	1	
C4019		ECEA1CU101	Electrolytic 16V 100	1	or ECEA1CS101
C4020		ECEA1CU221	Electrolytic 16V 220	1	or ECEA1CS221
C4021		ECQB1H103KH	Mylar 50V 0.01	1	
C4022		ECQB1H273KH	Mylar 50V 0.027	1	
C4023		ECQB1H103KH	Mylar 50V 0.01	1	
C4101		ECEA1CK100	Electrolytic 16V 10	1	
C4102		ECEA1CU101	Electrolytic 16V 100	1	or ECEA1CS101
C4103		ECKF1H102KB	Ceramic 50V 1000P	1	
C4104		ECEA1AK330	Electrolytic 10V 33	1	
C4105		ECEA1CK100	Electrolytic 16V 10	1	
C4106	*	ECEAEN3R3S	Electrolytic 25V 3.3	1	ECEA1EN3R3
C4107		ECQB1H153JH	Mylar 50V 0.015	1	
C4108		VCYG1E153KR	Semiconductor 25V 0.015	1	
C4109		ECQM2223KZ	Mylar 200V 0.022	1	
C4110		VCYG1E333KR	Semiconductor 25V 0.033	1	
C4111		ECEA16Z10	Electrolytic 16V 10	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Coils		
L4001		VTQ0014	10mH	1	
L4002		VLQEL05F471K	470μH	1	
L4003,4004		VTQ0014	10mH	2	
L4101	*	VLQEL05F471K	470μH	1	VLQEL06F471K
			Transformers		
T4101		EIQ7QF002B		1	or VLT0202
T4102		EIQ7QF003B		1	or VLT0201
			(System Control Section)		
			Integrated Circuits		
IC6001		MN15342VGC-3		1	
IC6002,6003		BA6209		2	
IC6004		AN6914		1	
			Transistors		
Q6001,6002		2SD636		2	(P,Q,R,S,T)
					or 2SC2021M(Q,R,S,E)
Q6003		2SB819		1	(R,S)
Q6005		2SA719		1	(R,S)
Q6006		2SB641		1	(P,Q,R,S)
					or 2SA937M (Q,R,S)
Q6007		2SA719		1	(P,Q,R,S)
Q6008		2SB641		1	(P,Q,R,S)
					or 2SA937M(Q,R,S)
Q6009		2SA719		1	(P,Q,R,S)
Q6012		2SD636		1	(P,Q,R,S,T)
			Combination Circuits		
			(Transistor & Resistor)		
QR6001		DTC124A		1	or UN1212
QR6002,6003		DTC114A		2	or UN1211
QR6004		DTC114A		1	or UN1211
QR6005,6006	*	DTA124A		2	or UN1112 DTC124A
QR6008		DTA124A		1	or UN1112
QR6012,6013		DTC144A		2	or UN1213
			Diodes		
D6005		MA165		1	
D6007,6008		MA165		2	
D6011-6018		MA165		6	
D6022		MA165		1	
D6024		MA165		1	
D6029,6030		MA165		2	
D6039		MA165		1	
D6043		MA154WK		1	
D6055-6057		MA165		3	
D6058,6059		MA165		2	NV-850E/EG
D6060,6061		MA165		2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Resistors		
R6001		ERG1ANJ680	Metal 1W 68	1	
R6002		ERDS2TJ220	22	1	
R6003		ERDS2TJ681	680	1	
R6004		ERDS2TJ332	3.3K	1	
R6005,6006		ERDS2TJ681	680	2	
R6007		ERDS2TJ332	3.3K	1	
R6008,6009		ERDS2TJ103	10K	2	
R6010		ERDS2TJ152	1.5K	1	
R6011		ERDS2TJ102	1K	1	
R6012		ERDS2TJ682	6.8K	1	
R6013		ERDS2TJ563	56K	1	
R6014		ERDS2TJ222	2.2K	1	
R6015		ERDS2TJ153	15K	1	
R6016		ERDS2TJ103	10K	1	
R6017		ERDS2TJ333	33K	1	
R6019		ERDS2TJ103	10K	1	
R6021		ERDS2TJ105	1M	1	
R6022		ERDS2TJ474	470K	1	
R6023		ERQS2CKG2261	Metal 2260	1	
R6024		ERQS2CKG1542	Metal 15.4K	1	
R6025		ERQS2CKG1212	Metal 12.1K	1	
R6026		ERDS2TJ103	10K	1	
R6027		ERDS2TJ562	5.6K	1	
R6028		ERDS2TJ682	6.8K	1	
R6029		ERDS2TJ103	10K	1	
R6030		ERDS2TJ152	1.5K	1	
R6033		ERDS2TJ682	6.8K	1	
R6034		ERDS2TJ562	5.6K	1	
R6035		ERDS2TJ332	3.3K	1	
R6036		ERDS2TJ682	6.8K	1	
R6037		ERDS2TJ562	5.6K	1	
R6038,6039		ERDS2TJ103	10K	2	
R6040,6041		ERDS2TJ105	1M	2	
R6043		ERDS2TJ332	3.3K	1	
R6047		ERDS2TJ333	33K	1	
R6048		ERDS2TJ560	56	1	
R6050		ERDS2TJ391	390	1	
R6051		ERDS2TJ333	33K	1	
R6052		ERDS2TJ223	22K	1	
R6053		ERDS2TJ182	1.8K	1	
R6054		ERDS2TJ223	22K	1	
R6055		ERDS2TJ822	8.2K	1	
R6056-6059		ERDS2TJ223	22K	4	
R6068,6069		ERDS2TJ223	22K	2	
R6070		ERDS2TJ562	5.6K	1	
R6077		ERDS2TJ682	6.8K	1	
R6078		ERDS2TJ333	33K	1	
R6081		ERDS2TJ123	12K	1	
R6082		ERDS2TJ473	47K	1	
R6083		ERDS2TJ222	2.2K	1	
R6085		ERDS2TJ683	68K	1	NV-850VEG
R6086		ERDS2TJ332	3.3K	1	NV-850/EG
			Capacitors		
C6001		ECQB1H472KH	Mylar 50V 4700P	1	
C6002		ECKF1H681KB	Ceramic 50V 680P	1	
C6003,6004		ECKF1H103ZF	Ceramic 50V 0.01	2	
C6005		ECEA0JK101	Electrolytic 6.3V 100	1	
C6006		ECKF1H221KB	Ceramic 50V 220P	1	
C6007		ECEA1HK0R1	Electrolytic 50V 0.1	1	
C6008		ECKF1H103ZF	Ceramic 50V 0.01	1	
C6009		ECEA0JK470	Electrolytic 6.3V 47	1	

Ref. No	Part No	Part Name & Description	Pcs / Set	Remarks
C6010	ECQB1H682JH	Mylar 50V 6800P	1	
C6011	ECQV1H184JZ	Mylar 50V 0.18	1	
C6012-6014	ECKF1H103ZF	Ceramic 50V 0.01	3	
C6015,6016	ECCF1H330JC	Ceramic 50V 33P	2	
C6019	ECKF1H103ZF	Ceramic 50V 0.01	1	
C6022,6023	ECQV1H104JZ	Mylar 50V 0.1	2	
C6024	ECEA1EK330	Electrolytic 25V 33	1	
C6029	ECEA1EK3R3	Electrolytic 25V 3.3	1	
C6030	ECEA0JK101	Electrolytic 6.3V 100	1	
C6031	ECEA1CK100	Electrolytic 16V 10	1	
		Crystal Oscillator		
X6001	VSX0082		1	
		(Chrominance Section)		
		P.C.B. Ass'y		
IC8001	VEPC007		1	
		Integrated Circuit		
IC8002	BA7025L		1	NV-850EG
		Transistors		
Q8001	2SB641		1	(P,Q,R,S,T)
				or 2SA937M(Q,R,S)
Q8003,8004	2SD636		2	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
Q8006	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
Q8007	2SD636		1	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
				NV-850EG
Q8008,8009	2SD636		2	(P,Q,R,S,T)
				or 2SC2021M(Q,R,S,E)
		Combination Cricuit		
		(Transistor & Resistor)		
QR8002	DTC124A		1	or UN1212 NV-850EG
QR8003,8004	DTC144A		2	or UN1213
		Diodes		
D8001	MA165		1	
D8002	MA165		1	NV-850EG
		Resistors		
R8001	ERDS2TJ272	2.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
R8003	ERDS2TJ102	1K	1	
R8004	ERDS2TJ471	470	1	
R8005	ERDS2TJ222	2.2K	1	
R8006	ERDS2TJ103	10K	1	
R8007	ERDS2TJ105	1M	1	
R8009	ERDS2TJ182	1.8K	1	
R8010	ERDS2TJ562	5.6K	1	
R8011	ERDS2TJ272	2.7K	1	
R8012,8013	ERDS2TJ103	10K	2	
R8014	ERDS2TJ221	220	1	NV-850EG
R8015	ERDS2TJ102	1K	1	
R8016	ERDS2TJ101	100	1	
R8017	ERDS2TJ102	1K	1	
R8018	ERDS2TJ562	5.6K	1	
R8019	ERDS2TJ822	8.2K	1	
R8020	ERDS2TJ271	270	1	
R8021	ERDS2TJ122	1.2K	1	
R8022	ERDS2TJ393	39K	1	
R8023	ERDS2TJ333	33K	1	
R8024	ERDS2TJ471	470	1	
R8025	ERDS2TJ332	3.3K	1	NV-850EG
R8026	ERDS2TJ122	1.2K	1	NV-850EG
R8027	ERDS2TJ272	2.7K	1	NV-850EG
R8028,8029	ERDS2TJ103	10K	2	NV-850EG
R8030	ERDS2TJ390	39	1	NV-850EG
R8031	ERDS2TJ222	2.2K	1	NV-850EG
R8032	ERDS2TJ154	150K	1	NV-850EG
R8033	ERDS2TJ223	22K	1	NV-850EG
R8034	ERDS2TJ102	1K	1	NV-850EG
R8035	ERDS2TJ470	47	1	
R8036	ERDS2TJ104	100K	1	
R8037,8038	ERDS2TJ562	5.6K	2	
R8040	ERDS2TJ152	1.5K	1	
R8041	ERDS2TJ102	1K	1	
R8042	ERDS2TJ822	8.2K	1	
R8043	ERDS2TJ333	33K	1	
R8044	ERDS2TJ473	47K	1	
R8045	ERDS2TJ392	3.9K	1	
		Capacitors		
C8001	ECKF1H221KB	Ceramic 50V 220P	1	
C8002	ECCF1H270JC	Ceramic 50V 27P	1	
C8003	ECKF1H472ZF	Ceramic 50V 4700P	1	
C8004	ECEA1CK470	Electrolytic 16V 47	1	
C8005	ECKF1H102KB	Ceramic 50V 1000P	1	
C8006	ECQB1H223KH	Mylar 50V 0.022	1	
C8007	ECEA1OZ100	Electrolytic 10V 100	1	
C8008	ECKF1H103ZF	Ceramic 50V 0.01	1	
C8009	ECKF1H471KB	Ceramic 50V 470P	1	
C8010	VCYG1EJ03KR	Semiconductor 25V 0.01	1	
C8011	ECQV1H154JZ	Mylar 50V 0.15	1	
C8012	ECKF1H681KB	Ceramic 50V 680P	1	NV-850EG
C8013	ECEA1CK100	Electrolytic 16V 10	1	
C8014	ECEA0JK470	Electrolytic 6.3V 47	1	
C8015	ECKF1H103ZF	Ceramic 50V 0.01	1	
C8016	ECEA0JK470	Electrolytic 6.3V 47	1	
C8017	ECKF1H103ZF	Ceramic 50V 0.01	1	NV-850EG
C8018	ECKF1H102KB	Ceramic 50V 1000P	1	NV-850EG
C8019	ECEA1AK330	Electrolytic 10V 33	1	NV-850EG
C8020	ECKF1H102KB	Ceramic 50V 1000P	1	NV-850EG
C8021	ECQV1H563JZ	Mylar 50V 0.056	1	NV-850EG
C8022	ECEA1AK330	Electrolytic 10V 33	1	NV-850EG

Ref. No		Part No.	Part Name & Description	Pcs / Set	Remarks
C8023		ECEA0JK470	Electrolytic 6.3V 47	1	NV-850EG
C8024		ECEA1CK100	Electrolytic 16V 10	1	
C8025		ECQV1H104JZ	Mylar 50V 0.1	1	
C8026		ECKF1H103ZF	Ceramic 50V 0.01	1	
C8027		ECCP1H050CC	Ceramic 50V 5P	1	
C8028,8029	*	VCYG1C104MR	Semiconductor 16V 0.1	2	VCYG1C104MR1
C8030	*	VCYG1C104MR	Semiconductor 16V 0.1	1	NV-850EG VCYG1C104MR1
C8031		ECKF1H471KB	Ceramic 50V 470P	1	
C8032		ECKF1H821KB	Ceramic 50V 820P	1	
C8033		ECQV1H154JZ	Mylar 50V 0.15	1	
C8034		ECQB1H103KH	Mylar 50V 0.01	1	
			Coils		
L8001		VLQEL05F270K	27μH	1	
L8002		VLQEL05F470K	47μH	1	
L8003		VLQEL05F331K	330μH	1	
L8004		VLQEL05F681K	680μH	1	
L8005		VLQEL05F101K	100μH	1	
L8006		VLQEL05F681K	680μH	1	
L8008		VLQEL05F150K	15μH	1	
L8009		ELM7Q207A		1	NV-850EG
L8010		VLQEL05F101K	100μH	1	NV-850EG
L8011		VLQEL05F151K	150μH	1	
L8012		VLQEL05F470K	47μH	1	
L8013		VLQEL05F681K	680μH	1	
			Combination Circuits		
			(Capacitor & Resistor)		
CR8001		EXEP820K332C	82P, 3.3K	1	
CR8002		EXED103M821C	0.01,820	1	
			Delay Line		
DL8001		EFDBR124A13B		1	
			Filters		
FL8001		VLF0299		1	
FL8002		VLF0143		1	NV-850EG
			Crystal Oscillator		
XC8001		VSX0129A		1	or VSX0129E
			Connectors		
JSA,JSB, JSC,JSD		VJS1180	5P	4	
			Miscellaneous		
		VGU1027	VR Knob	3	
		VJF0022	Wire Saddle (Large)	1	
		VJF0052	Binder	4	
		VJJ0106	Mic Jack	1	

Ref. No.		Part No	Part Name & Description	Pcs / Set	Remarks
		VEP05053A	Head Amp & Luminance (2)		
			P.C. Board Unit		
			P.C.B. Ass'y		
IC3501		VEPY005		1	
			Integrated Circuit		
IC3502		AN6326N		1	
			Transistors		
Q3501		2SC2377		1	(C,D)
Q3502,3503		2SC2206		2	(A,B,C)
Q3504		2SB641		1	(P,Q,R,S,T)
					or 2SA937M(Q,R,S)
Q3505-3508		2SC2206		4	(A,B,C)
Q3509		2SD636		1	(P,Q,R,S,T)
					or 2SC2021M(Q,R,S,E)
Q3550		2SD661		1	
Q3551,3552		2SC2377		2	(C,D)
Q3562		2SC2206		1	(A,B,C)
			Diodes		
D3501		MA165		1	
D3502		RD3.3EB	Zener	1	
D3550,3551		MA165		2	
			Resistors		
R3501		ERDS2TJ102	1K	1	
R3502		ERDS2TJ152	1.5K	1	
R3503		ERDS2TJ471	470	1	
R3504		ERDS2TJ681	680	1	
R3505		ERDS2TJ122	1.2K	1	
R3508		ERDS2TJ102	1K	1	
R3509		ERDS2TJ154	150K	1	
R3510		ERDS2TJ152	1.5K	1	
R3511		ERDS2TJ392	3.9K	1	
R3512		ERDS2TJ331	330	1	
R3513		ERDS2TJ104	100K	1	
R3514		ERDS2TJ472	4.7K	1	
R3515		EROS2CKG1601	Metal 1.6K	1	
R3516		ERDS2TJ222	2.2K	1	
R3517		ERDS2TJ104	100K	1	
R3518		ERDS2TJ122	1.2K	1	
R3519		ERDS2TJ123	12K	1	
R3521		EVN61AA00B13	Variable 1K	1	
R3522		ERDS2TJ471	470	1	
R3523		EROS2CKG4700	Metal 470	1	
R3524		ERDS2TJ682	6.8K	1	
R3525		ERDS2TJ122	1.2K	1	
R3526		EROS2CKG1201	Metal 1.2K	1	
R3527		EROS2CKG2200	Metal 220	1	
R3528		ERDS2TJ100	10	1	
R3529		ERDS2TJ682	6.8K	1	
R3530,3531		ERDS2TJ560	56	2	
R3532		ERDS2TJ100	10	1	
R3533		ERDS2TJ122	1.2K	1	
R3534		ERDS2TJ820	82	1	
R3535		ERDS2TJ124	120K	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
R3536-3539		ERDS2TJ152			1.5K	4	
R3540		ERDS2TJ391			390	1	
R3541		ERDS2TJ102			1K	1	
R3542		ERDS2TJ561			560	1	
R3543,3544		ERDS2TJ102			1K	2	
R3545		ERDS2TJ152			1.5K	1	
R3546		ERDS2TJ391			390	1	
R3547		ERDS2TJ122			1.2K	1	
R3548,3549		ERDS2TJ102			1K	2	
R3550,3551		ERDS2TJ103			10K	2	
R3552,3553		EVM3ACA00B13	Variable		1K	2	
R3554,3555		ERDS2TJ123			12K	2	
R3556		EVN3ACA00B13	Variable		1K	1	
R3557		ERDS2TJ562			5.6K	1	
R3558		ERDS2TJ270			27	1	
R3570		ERDS2TJ102			1K	1	
R3571,3572		ERDS2TJ681			680	2	
R3573,3574		ERDS2TJ561			560	2	
R3575		EVN61AA00B23	Variable		2K	1	
			Capacitors				
C3501		ECEA1EK4R7	Electrolytic	25V	4.7	1	
C3502		ECEA1HKNR47	Electrolytic	50V	0.47	1	
C3503		ECEA1HK010	Electrolytic	50V	1	1	
C3504		ECEA0JK101	Electrolytic	6.3V	100	1	
C3505		ECCF1H120KC	Ceramic	50V	12P	1	
C3506		ECEA0JK470	Electrolytic	6.3V	47	1	
C3507		ECEA1HK2R2	Electrolytic	50V	2.2	1	
C3508		VCYG1E103KR	Semiconductor	25V	0.01	1	
C3509		ECEA0JK101	Electrolytic	6.3V	100	1	
C3510		ECKF1H181KB	Ceramic	50V	180P	1	
C3511-3513		ECEA1HK010	Electrolytic	50V	1	3	
C3514		ECEA1EK4R7	Electrolytic	25V	4.7	1	
C3515		ECEA1HK2R2	Electrolytic	50V	2.2	1	
C3516		ECKF1H151KB	Ceramic	50V	150P	1	
C3517		ECKF1H122KB	Ceramic	50V	1200P	1	
C3520		ECCF1H120KC	Ceramic	50V	12P	1	
C3521		VCYG1E103KR	Semiconductor	25V	0.01	1	
C3522		ECEA1CK470	Electrolytic	16V	47	1	
C3523		ECCF1H820KC	Ceramic	50V	82P	1	
C3524		ECKF1H181KB	Ceramic	50V	180P	1	
C3525	*	VCYG1E333KR	Semiconductor	25V	0.033	1	VCYG1E333KF
C3526,3527	*	VCYG1C104MR	Semiconductor	16V	0.1	2	VCYG1C104MR1
C3528		ECKF1H103ZF	Ceramic	50V	0.01	1	
C3529		ECEA50ZI	Electrolytic	50V	1	1	
C3530		ECEA1CK100	Electrolytic	16V	10	1	
C3531		ECEA1HK010	Electrolytic	50V	1	1	
C3532		ECEA1CK100	Electrolytic	16V	10	1	
C3533	*	VCYG1C104MR	Semiconductor	16V	0.1	1	VCYG1C104MR1
C3534		ECQV1H104JZ	Mylar	50V	0.1	1	
C3535		ECCF1H120KC	Ceramic	50V	12P	1	
C3536	*	VCYG1C104MR	Semiconductor	16V	0.1	1	VCYG1C104MR1
C3537		ECEA1CK100	Electrolytic	16V	10	1	
C3538		ECEA0JK470	Electrolytic	6.3V	47	1	
C3539		ECKF1H151KB	Ceramic	50V	150P	1	
C3540		VCYG1E103KR	Semiconductor	25V	0.01	1	
C3541		ECKF1H271KB	Ceramic	50V	270P	1	
C3542		VCKG1E431JA	Semiconductor	25V	430P	1	
C3543		ECCF1H560KC	Ceramic	50V	56P	1	
C3544		ECCF1H180KC	Ceramic	50V	18P	1	
C3545		VCYG1E103KR	Semiconductor	25V	0.01	1	
C3546		ECEA0JK470	Electrolytic	6.3V	47	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
C3547		ECEA0JK330	Electrolytic	6.3V	33	1	
C3548		ECQB1H333KH	Mylar	50V	0.033	1	
C3549		ECCF1H560KC	Ceramic	50V	56P	1	
C3551		VCYG1C104MR	Semiconductor	16V	0.1	1	
C3554-3556		ECV1ZW40X64T	Trimmer	500V	40P	3	
C3568		ECEA0JK470	Electrolytic	6.3V	47	1	
C3569		VCKG1E391JA	Semiconductor	25V	390P	1	
C3570		VCYG1E103KR	Semiconductor	25V	0.01	1	
C3573		ECQV1H154JZ	Mylar	50V	0.15	1	
C3574		ECKF1H102ZP	Ceramic	50V	1000P	1	
C3576		ECQV1H104JZ	Mylar	50V	0.1	1	
C3577		ECCF1H150JC	Ceramic	50V	15P	1	
C3578		ECQV1H104JZ	Mylar	50V	0.1	1	
C3579		ECQV1H274JZ	Mylar	50V	0.27	1	
C3580		ECCF1H060CC	Ceramic	50V	6P	1	
C3581		ECCF1H120KC	Ceramic	50V	12P	1	
C3582,3583		ECQV1H104JZ	Mylar	50V	0.1	2	
			Coils				
L3501-3503		VLQEL05F101K			100μH	3	
L3504		VLQEL05F820K			82μH	1	
L3505		VLQEL05F151K			150μH	1	
L3506-3508		VLQEL05F101K			100μH	3	
L3509		VLQEL05F102K			1mH	1	
L3510		VLQEL05F180K			18μH	1	
L3512		VLQEL05F151K			150μH	1	
L3513		VLQEL05F471K			470μH	1	
L3514		VLQEL05F390K			39μH	1	
L3515,3516		VLQ0127			2.2μH	2	
L3550,3551		VLQEL05F150K			15μH	2	
L3565		VLQEL05F101K			100μH	1	
L3566		VLQEL05F2R2K			2.2μH	1	
			Combination Circuits				
			(Capacitor & Resistor)				
CR3501		EXEC390K222C			39P, 2.2K	1	
CR3503		EXED561K561C			560P, 560	1	
CR3504		EXED1032682C			0.01, 6.8K	1	
			Delay Line				
DL3501		EFDVN645A43D				1	
			Filters				
FL3501		VLF0186				1	
FL3502		VLF0187				1	
			Relay				
RY3550		VSY1019				1	or VSY1022

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Connector		
P3501	VJP1229	2P	1	
		Miscellaneous		
	VGQ0474	Spacer	1	
	VJF0035	Wire Saddle	1	
	VSC1058	Shield Case (Top)	1	
	VSC1059	Shield Case (Middle)	1	
	VSC1060	Shield Case (Bottom)	1	
	VEP06212A	Operation P.C. Board Unit		
		Integrated Circuits		
IC6501	MN1450BVG		1	
IC6502,6503	BA668A		2	
		Transistors		
Q6501	2SB642		1	
Q6502-6504	2SD637		3	
		Combination Circuit		
		(Transistor & Resistor)		
QR6501,6502	DTC144A		2	or UN1213
		Diodes		
D6501	LN81RCPHL	LED	1	
D6502,6503	MA165		2	
D6504	RD7.5EB3	Zener	1	
D6506,6507	MA165		2	
D6508	MA165		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Resistors		
R6501	ERDS2TJ391	390	1	
R6502	ERDS2TJ301	300	1	
R6503	ERDS2TJ681	680	1	
R6504	ERDS2TJ122	1.2K	1	
R6505	ERDS2TJ272	2.7K	1	
R6506	ERDS2TJ472	4.7K	1	
R6507	ERDS2TJ822	8.2K	1	
R6508	ERDS2TJ183	18K	1	
R6510	ERDS2TJ333	33K	1	
R6511	ERDS2TJ623	62K	1	
R6512	ERDS2TJ152	1.5K	1	
R6515	EVN3ACA00B14	Variable 10K	1	
R6516	ERDS2TJ103	10K	1	
R6517	ERDS2TJ563	56K	1	
R6518	ERDS2TJ560	56	1	
R6519	ERDS2TJ104	100K	1	
R6520,6521	ERDS2TJ330	33	2	
R6522	ERDS2TJ223	22K	1	
R6523	ERDS2TJ103	10K	1	
R6524	ERDS2TJ223	22K	1	
R6527	ERDS2TJ223	22K	1	
R6528	ERDS2TJ473	47K	1	
R6529	ERDS2TJ223	22K	1	
R6530,6531	ERDS2TJ473	47K	2	
R6532	ERDS2TJ223	22K	1	
R6533	ERDS2TJ561	560	1	
R6534	ERDS2TJ394	390K	1	
R6536	ERDS2TJ683	68K	1	
R6537	ERDS2TJ561	560	1	
R6538	ERDS2TJ394	390K	1	
R6539	ERDS2TJ822	8.2K	1	
R6540	ERDS2TJ273	27K	1	
R6541	ERDS2TJ822	8.2K	1	
R6542	ERDS2TJ273	27K	1	
R6546	ERDS2TJ562	5.6K	1	
R6547	ERDS2TJ104	100K	1	
R6548	ERDS2TJ103	10K	1	
R6549,6550	ERDS2TJ471	470	2	
R6551	ERDS2TJ152	1.5K	1	
		Capacitors		
C6501	ECEA1HK010	Electrolytic 50V 1	1	
C6502	ECCF1H470JU	Ceramic 50V 47P	1	
C6503	ECKF1H103ZF	Ceramic 50V 0.01	1	
C6504-6506	ECEA1CK100	Electrolytic 16V 10	3	
C6507	ECEA1HK4R7	Electrolytic 50V 4.7	1	
C6508,6509	ECEA1CK100	Electrolytic 16V 10	2	
C6510	ECEA1HK4R7	Electrolytic 50V 4.7	1	
C6511	ECEA1HK010	Electrolytic 50V 1	1	
C6512	ECEA1HKNR47	Electrolytic 50V 0.47	1	
C6513	ECEA0JK101	Electrolytic 6.3V 100	1	
C6514	VCYG1E104MR1	Semiconductor 25V 0.1	1	
C6515,6516	ECKF1H103ZF	Ceramic 50V 0.01	2	
C6517	ECEA1HK010	Electrolytic 50V 1	1	
C6518,6519	ECKF1H103ZF	Ceramic 50V 0.01	2	
			1	
		Display Tubes		
DP6502	VSL0031		1	
DP6506	VSL0030		1	
		Switches		
S6502-6508	EVQQS307K		7	
S6510-6513	EVQQS307K		4	
S6514	ESD14307		1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
S6515,6516		EVQQS307K		2	
			Connectors		
P6501		VJP1236	9P	1	
P6502-6505		VJP1230	3P	4	
			Miscellaneous		
		KL04	LED Spacer	1	
		VJF0052	Binder	2	
		VJF0172	Display Tube Holder	2	(For DP6506)
		VJF0183	Level Meter Display Tube	2	(For DP6502)
			Holder		
	*	———	Spacer	1	VQL322 (Not available)
		VEP07186G/H	TV Demodulator P.C. Board		NV-850E/B
			Unit		
			Integrated Circuits		
IC701		BN5115		1	VIF IC
IC751		AN5215		1	SIF IC
			Transistors		
Q701		2SD636		1	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
Q702		2SB641		1	(Q,R,S,T)
					or 2SA564(Q,R,S,T)
Q703		2SD636		1	(S,T) or 2SD637(S,T)
Q707,708		2SD636		2	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
					NV-850E
Q709		2SA564A		1	(Q,R,S,T)
					or 2SA733(K,P,Q)
					NV-850E
Q710		2SD636		1	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
					NV-850E
Q7006		2SD636		1	(Q,R,S,T)
					or 2SC1684(Q,R,S,T)
			Diodes		
D701,702		MA165		2	NV-850E

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
D703		MA165				1	
D705		10E1				1	or ERB1201G1
			Resistors				
R701		ERDS2TJ222			2.2K	1	
R702		EVN50AA00B23	Variable		2K	1	
R703		ERDS2TJ472			4.7K	1	
R704		ERDS2TJ392			3.9K	1	NV-850E
R705		EVN50AA00B23	Variable		2K	1	NV-850E
R706		ERDS2TJ222			2.2K	1	NV-850E
R707		ERDS2TJ393			39K	1	
R708		ERDS2TJ473			47K	1	
R711		ERDS2TJ274			270K	1	
R712		ERDS2TJ183			18K	1	
R713		ERDS2TJ392			3.9K	1	
R714		ERDS2TJ102			1K	1	
R715		ERDS2TJ391			390	1	
R716		ERDS2TJ561			560	1	
R717		ERDS2TJ102			1K	1	
R719		ERDS2TJ561			560	1	
R722		ERDS2TJ183			18K	1	
R723		ERDS2TJ562			5.6K	1	
R724		ERDS2CKG8200	Metal		820	1	
R725		ERDS2TJ470			47	1	
R726		ERDS2TJ680			68	1	
R727		ERDS2CKG1001	Metal		1K	1	
R728		EVN50AA0B14	Variable		10K	1	
R731		ERDS2TJ680			68	1	
R732		ERDS2TJ102			1K	1	
R733		ERDS2TJ270			27	1	
R734		ERDS2TJ332			3.3K	1	
R735		ERDS2TJ272			2.7K	1	
R738		ERDS2TJ561			560	1	
R740		ERDS2TJ103			10K	1	
R743		ERDS2TJ473			47K	1	NV-850B
R744-747		ERDS2TJ223			22K	4	NV-850B
R748		ERDS2TJ472			4.7K	1	NV-850B
R749		ERDS2TJ682			6.8K	1	NV-850B
R752		ERD2FCG220	Fuse Resistor		22	1	⚠
R754		ERDS2TJ681			680	1	
R755		EVN50AA00B24	Variable		20K	1	
R756		ERDS2TJ102			1K	1	
R761		ERDS2TJ102			1K	1	NV-850B
R762		ERDS2TJ271			270	1	NV-850B
R763		ERDS2TJ104			100K	1	NV-850B
R764		ERDS2T223			22K	1	NV-850B
R790		ERDS2TJ750			75	1	
R791		ERDS2TJ102			1K	1	
R7014		ERDS2TJ102			1K	1	
R7015		ERDS2TJ103			10K	1	
			Capacitors				
C701		ECEA1CK220	Electrolytic	16V	22	1	
C702		ECEA1CK100	Electrolytic	16V	10	1	
C703		ECKF1H103ZF	Ceramic	50V	0.01	1	NV-850E
C704		ECEA1CK330	Electrolytic	16V	33	1	NV-850E
C705		ECEA50ZR68	Electrolytic	50V	0.68	1	
C706		ECEA1CK330	Electrolytic	16V	33	1	
C707,708		ECKF1H103ZF	Ceramic	50V	0.01	2	
C709		ECQV1H224JZ	Mylar	50V	0.22	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
C710		ECKF1H103ZF	Ceramic	50V	0.01	1	
C711,712		ECCF1H030CC	Ceramic	50V	3P	2	
C713		ECCF1H121JP	Ceramic	50V	120P	1	
C714		ECCF1H220JC	Ceramic	50V	22P	1	
C715,716		ECKF1H103ZF	Ceramic	50V	0.01	2	
C717		ECCF1H150JC	Ceramic	50V	15P	1	
C718		ECCF1H560JR	Ceramic	50V	56P	1	
C719		ECEA50Z1	Electrolytic	50V	1	1	
C720		ECKF1H103ZF	Ceramic	50V	0.01	1	
C721		ECEA1CK470	Electrolytic	16V	47	1	
C723		ECEA1EKN4R7	Electrolytic	25V	4.7	1	
C724		ECCF1H150JC	Ceramic	50V	15P	1	
C726		ECCF1H680JC	Ceramic	50V	68P	1	
C727		ECCF1H220JR	Ceramic	50V	22P	1	
C730		ECCF1H390JC	Ceramic	50V	39P	1	NV-850E
C731		ECQB1H103KH	Mylar	50V	0.01	1	
C732		ECKF1H103ZF	Ceramic	50V	0.01	1	
C733		ECCF1H151J	Ceramic	50V	150P	1	
C734		ECKF1H103ZF	Ceramic	50V	0.01	1	
C737		ECEA1CK220	Electrolytic	16V	22	1	
C739		ECKF1H103ZF	Ceramic	50V	0.01	1	
C743		ECQB1H103KH	Mylar	50V	0.01	1	
C745		ECKF1H103ZF	Ceramic	50V	0.01	1	NV-850B
C746		ECEA1CK220	Electrolytic	16V	22	1	
C747		ECKF1H103ZF	Ceramic	50V	0.01	1	NV-850B
C751		ECCF1H050CC	Ceramic	50V	5P	1	
C753		ECQV1H473JZ	Mylar	50V	0.047	1	
C754		ECEA1CU101	Electrolytic	16V	100	1	
C755		ECCF1H390JP	Ceramic	50V	39P	1	
C756		ECCF1H120JC	Ceramic	50V	12P	1	
C757		ECKF1H561KB	Ceramic	50V	560P	1	
C758		ECCF1H820JP	Ceramic	50V	82P	1	
C759		ECEA1CK100	Electrolytic	16V	10	1	
C761		ECQB1H103JH	Mylar	50V	0.01	1	
C791		ECQB1H273JH	Mylar	50V	0.027	1	
			Coils				
L701		VLQEL05F220K			22μH	1	
L703		VLQEL05F150K			15μH	1	
L704		VLQEL05F470K			47μH	1	
L705		VLQEL05F560K			56μH	1	
L706		VLQEL05F820K			82μH	1	
L707		VTQ0014			10mH	1	
			Transformers				
T701		EULHLB333				1	NV-850E
T701		EULHLB360				1	NV-850B
T702		EIM7A511	Sound Trap			1	
T703		EIV7E016F	Selective			1	
T704		EIV7E016E	AFC			1	
T751	*	EIS7E006A	SIF			1	EISE7E006A
T752		EIS7E006B	Detect			1	EISE7E006B
			Crystal Oscillators				
X702		EFCS5R5MS4	5.5MHz Filter			1	or VLF0178 NV-850E
X702		EFCS6R0MS4	6.0MHz Filter			1	or VLF0179 NV-850B
X703		EFCS5R5MW3	5.5MHz Trap			1	or VLF0182 NV-850E
X703		EFCS6R0MS4	6.0MHz Trap			1	or VLF0183 NV-850B

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Connectors		
P701		VJP1234	7P	1	
P702		VJP1229	2P	1	
P704		VJP1237	10P	1	
			Miscellaneous		
		TNV77759F2	Tuner	1	NV-850E⚠
		TNV87359F2	Tuner	1	NV-850B⚠
		VSC0742	Shield Case (Main)	1	
		VSC0743	Shield Case (Bottom)	1	
		VSC1052	Shield Case (Top)	1	
		VGQ0471	Top Spacer	1	
		VEP07193A	TV Demodulator P.C. Board Unit	1	NV-850EG
			Integrated Circuits		
IC703		BN5115		1	
IC705		AN5130		1	
			Transistors		
Q703		2SD637		1	(Q,R,S,T)
					or 2SC1685(Q,R,S,T)
Q704		2SC1687		1	
Q705		2SB642		1	(Q,R,S,T)
					or 2SA564A(Q,R,S,T)
Q706		2SD636		1	(S,T) or 2SD637(S,T)
Q707		2SD637		1	(Q,R,S,T)
					or 2SC1685(Q,R,S,T)
Q708		2SC1687		1	
			Diodes		
D702		MA165		1	
D704		MA165		1	
D709		MA165		1	
D710,711		10E1		2	or ERB1201G1
			Resistors		

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
R710		ERDS2TJ103			10K	1	
R711		ERDS2TJ823			82K	1	
R712		ERDS2TJ103			10K	1	
R713		ERDS2TJ562			5.6K	1	
R714		EVN50AA00B23	Variable		2K	1	
R715		ERDS2TJ392			3.9K	1	
R716		ERDS2TJ562			5.6K	1	
R717		EVN50AA00B23	Variable		2K	1	
R718		ERDS2TJ562			5.6K	1	
R720		ERDS2TJ562			5.6K	1	
R721		ERDS2TJ821			820	1	
R722		ERDS2TJ470			47	1	
R723		ERDS2CKG1001	Metal		1K	1	
R724		ERDS2TJ103			10K	1	
R728		ERDS2TJ183			18K	1	
R729	*	ERD25TJ225			2.2M	1	ERDS2TJ225
R730		ERDS2TJ332			3.3K	1	
R731		ERDS2TJ470			47	1	
R732		ERDS2CKG8200	Metal		820	1	
R733		ERDS2TJ183			18K	1	
R734		ERDS2TJ562			5.6K	1	
R735		ERDS2TJ680			68	1	
R736		EVN50AA00B14	Variable		10K	1	
R737		ERDS2TJ102			1K	1	
R738		ERDS2TJ470			47	1	
R739		ERDS2TJ221			220	1	
R740		ERDS2TJ563			56K	1	
R741		ERDS2TJ102			1K	1	
R742		ERDS2TJ683			68K	1	
R743		ERDS2TJ122			1.2K	1	
R744		ERDS2TJ271			270	1	
R745		ERDS2TJ274			270K	1	
R747		ERDS2TJ822			8.2K	1	
R748		ERDS2TJ392			3.9K	1	
R749,750		ERDS2TJ562			5.6K	2	
R751		ERDS2TJ821			820	1	
R752		ERDS2TJ122			1.2K	1	
R755		ERDS2TJ392			3.9K	1	
R757		ERDS2TJ103			10K	1	
R760		ERDS2TJ152			1.5K	1	
R761		ERDS2TJ332			3.3K	1	
R762		ERDS2TJ471			470	1	
R763		ERDS2TJ750			75	1	
R765,766		ERDS2TJ221			220	2	
			Capacitors				
C704		ECEA1CK220	Electrolytic	16V	22	1	
C705		ECEA1CK100	Electrolytic	16V	10	1	
C706,707		ECKF1H103ZF	Ceramic	50V	0.01	2	
C708		ECEA1CK330	Electrolytic	16V	33	1	
C709		ECQB1H103KH	Mylar	50V	0.01	1	
C710		ECEA50ZR68	Electrolytic	50V	0.68	1	
C711		ECKF1H103ZF	Ceramic	50V	0.01	1	
C712		ECEA1CK330	Electrolytic	16V	33	1	
C713		ECCF1H150JC	Ceramic	50V	15P	1	
C714,715		ECKF1H103ZF	Ceramic	50V	0.01	2	
C716		ECCF1H330JC	Ceramic	50V	33P	1	
C721~724		ECKF1H103ZF	Ceramic	50V	0.01	4	
C725		ECCF1H150JC	Ceramic	50V	15P	1	
C726		ECEA1HK010	Electrolytic	50V	1	1	
C727		ECEA1CU101	Electrolytic	16V	100	1	
C729		ECEA50Z1	Electrolytic	50V	1	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
C730		ECKF1H103ZF	Ceramic	50V	0.01	1	
C731		ECEA1EKN4R7	Electrolytic	25V	4.7	1	
C732		ECCF1H220JC	Ceramic	50V	22P	1	
C734		ECCF1H680JS	Ceramic	50V	68P	1	
C735		ECCF1H820JP	Ceramic	50V	82P	1	
C736		ECCF1H220JC	Ceramic	50V	22P	1	
C737,738		ECCF1H020CC	Ceramic	50V	2P	1	
C739		ECCF1H101J	Ceramic	50V	100P	1	
C740		ECKF1H103ZF	Ceramic	50V	0.01	1	
C742		ECQB1H223KH	Mylar	50V	0.022	1	
C743		ECQV1H224JZ	Mylar	50V	0.22	1	
C744		ECCF1H050CC	Ceramic	50V	5P	1	
C745		ECCF1H560JP	Ceramic	50V	56P	1	
C746-748		ECKF1H103ZF	Ceramic	50V	0.01	3	
C749		ECKF1H102KB	Ceramic	50V	1000P	1	
C750		ECEA1HK2R2	Electrolytic	50V	2.2	1	
C751		ECKF1H102KB	Ceramic	50V	1000P	1	
C754		ECKF1H103ZF	Ceramic	50V	0.01	1	
C755		ECEA1CK470	Electrolytic	16V	47	1	
C756		ECEA16Z10	Electrolytic	16V	10	1	
C760		ECQB1H103KH	Mylar	50V	0.01	1	
C761,762		ECEA1CK330	Electrolytic	16V	33	2	
C763		ECCF1H680JP	Ceramic	50V	68P	1	
C767,768		ECKF1H103ZF	Ceramic	50V	0.01	2	
C769		ECCF1H060CC	Ceramic	50V	6P	1	
C770		ECCF1H101JP	Ceramic	50V	100P	1	
			Coils				
L701		VLQEL05F100K			10μH	1	
L702		VLQEL05F560K			56μH	1	
L704		VLQEL05F101K			100μH	1	
L705		VLQEL05F120K			12μH	1	
L706		VLQEL05F2R2K			2.2μH	1	
L707		ELQSR56KB			0.56μH	1	
L708		VLQEL05F100K			10μH	1	
L709		VLQEL05F101K			100μH	1	
			Transformers				
T702		EULHLB318				1	
T703		EIM5A521				1	
T704		EIV7E018C	Selective			1	
T705		EIV7E016E	AFC			1	
T706		EULHLB319				1	
T707		EIV7E018C	Selective			1	
T712		EIN5A521	Trap			1	
			Crystal Oscillator				
X701		EPCS5R5MW3				1	or VLF0182
			Connectors				
P701		VJP1234			7P	1	
P702		VJP1229			2P	1	
P704		VJP1237			10P	1	
P705		VJP1232			5P	1	
P706		VJP1230			3P	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Miscellaneous		
	TNV77759P2	Tuner	1	
	VMZ0550	Barrier	1	
	VSC0902	Shield Case (Large-Top)	1	
	VSC0903	Shield Case (Large-Main)	1	
	VSC0904	Shield Case (Large-Bottom)	1	
	VSC0905	Shield Case (Small-Top)	1	
	VSC0906	Shield Case (Small-Main)	1	
	VSC0907	Shield Case (Small-Bottom)	1	
	VEP07194A	Decoder P.C. Board Unit		NV-850EG
		Integrated Circuits		
IC7001	BN5823		1	
IC7002	LA7755		1	
IC7003	TC4066BP		1	or UPD4066BC
IC7004,7005	AN5215		2	
		Transistors		
Q7001	2SD637		1	(Q,R,S,T)
				or 2SC1685(Q,R,S,T)
Q7002	2SB641		1	(Q,R,S,T)
				or 2SA564(Q,R,S,T)
Q7003,7004	2SD637		1	(Q,R,S,T)
				or 2SC1685(Q,R,S,T)
Q7005	2SB641		1	(Q,R,S,T)
				or 2SC564(Q,R,S,T)
Q7006-7016	2SD637		11	(Q,R,S,T)
				or 2SC1685(Q,R,S,T)
Q7020	2SD636		1	(Q,R,S,T)
				or 2SC1684(Q,R,S,T)
		Diodes		
D7001-7004	MA165		4	
D7005,7006	MA1082	Zener	2	or RD8.2EB2
D7007-7011	MA165		5	
D7016	MA165		1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Resistors		
R7001	EVN61AA00B33	Variable 3K	1	or EVNK6AA00B33
R7002	ERDS2TJ224	220K	1	
R7003	ERDS2TJ333	33K	1	
R7004	ERDS2TJ182	1.8K	1	
R7005	ERDS2TJ152	1.5K	1	
R7006	ERDS2TJ563	56K	1	
R7007	ERDS2TJ682	6.8K	1	
R7008,7009	ERDS2TJ102	1K	2	
R7010,7011	ERDS2TJ103	10K	2	
R7012,7013	ERDS2TJ473	47K	2	
R7014	ERD2FCG220	Fuse Resistor 22	1	⚠
R7015	ERDS2TJ473	47K	1	
R7016,7017	ERDS2TJ474	470K	2	
R7018	ERDS2TJ104	100K	1	
R7019	ERDS2TJ182	1.8K	1	
R7020	ERDS2TJ273	27K	1	
R7021	ERDS2TJ102	1K	1	
R7022	ERDS2TJ333	33K	1	
R7023	ERDS2TJ104	100K	1	
R7024	ERDS2TJ103	10K	1	
R7025	ERDS2TJ104	100K	1	
R7026	EVNK6AA00B15	Variable 100K	1	or EVN61AA00B15
R7027	ERDS2TJ154	150K	1	
R7028	EVNK6AA00B54	Variable 50K	1	or EVN61AA00B54
R7029	ERDS2TJ823	82K	1	
R7030	ERDS2TJ104	100K	1	
R7031	ERDS2TJ564	560K	1	
R7032	ERDS2TJ104	100K	1	
R7033	ERDS2TJ684	680K	1	
R7034	ERD2FCG220	Fuse Resistor 22	1	⚠
R7035	ERDS2TJ124	120K	1	
R7036	ERDS2TJ683	68K	1	
R7037	ERDS2TJ102	1K	1	
R7038	ERDS2TJ222	2.2K	1	
R7039	ERDS2TJ104	100K	1	
R7040	EVN50AA00B14	Variable 10K	1	
R7041	ERDS2TJ473	47K	1	
R7042	ERDS2TJ182	1.8K	1	
R7043	ERDS2TJ104	100K	1	
R7044	EVN50AA00B14	Variable 10K	1	
R7045	ERDS2TJ473	47K	1	
R7046	ERDS2TJ104	100K	1	
R7047,7048	ERDS2TJ102	1K	2	
R7049-7053	ERDS2TJ103	10K	5	
R7054	ERDS2TJ273	27K	1	
R7055	ERDS2TJ102	1K	1	
R7056	ERDS2TJ152	1.5K	1	
R7057	ERDS2TJ103	10K	1	
R7058	ERDS2TJ273	27K	1	
R7059-7061	ERDS2TJ103	10K	3	
R7062	ERDS2TJ273	27K	1	
R7063	ERD2FCG220	Fuse Resistor 22	1	⚠
R7064	ERDS2TJ152	1.5K	1	
R7065	ERDS2TJ103	10K	1	
R7066	ERDS2TJ330	33	1	
R7067,7068	ERDS2TJ472	4.7K	2	
R7069	ERDS2TJ152	1.5K	1	
R7070	ERDS2TJ104	100K	1	
R7071-7074	ERDS2TJ471	470	4	
R7075	ERDS2TJ272	2.7K	1	
R7076	EVN50AA00B14	Variable 10K	1	
R7077	ERDS2TJ102	1K	1	
R7078	ERDS2TJ562	5.6K	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
R7079,7080		ERS2TJ823			82K	2	
R7081,7082		ERDS2TJ102			1K	2	
R7089		ERDS2TJ473			47K	1	
R7091		ERD2FCG220	Fuse Resistor		22	1	⚠
R7092		ERDS2TJ183			18K	1	
R7093,7094		ERDS2TJ103			10K	2	
R7095,7096		ERDS2TJ681			680	2	
			Capacitors				
C7001		ECEA1CK470	Electrolytic	16V	47	1	
C7002		ECEA0JS471	Electrolytic	6.3V	470	1	or ECEA0JU471
C7003		ECQB1H333JH	Mylar	50V	0.033	1	
C7004		ECQB1H822JH	Mylar	50V	8200P	1	
C7005		ECQB1H152JH	Mylar	50V	1500P	1	
C7006		ECKF1H1032F	Ceramic	50V	0.01	1	
C7007		ECQB1H223JH	Mylar	50V	0.022	1	
C7008		ECEA1CK100	Electrolytic	16V	10	1	
C7009		ECEA1CS221	Electrolytic	16V	220	1	or ECEA1CU221
C7010		ECEA1CK100	Electrolytic	16V	10	1	
C7011		ECEA0JK101	Electrolytic	6.3V	100	1	
C7012,7013		ECEA1EK4R7	Electrolytic	25V	4.7	2	
C7014,7015		ECKF1H103ZF	Ceramic	50V	0.01	2	
C7016		ECEA1CK470	Electrolytic	16V	47	1	
C7017		ECEA1CU101	Electrolytic	16V	100	1	
C7018		ECQB1H273JH	Mylar	50V	0.027	1	
C7019		ECEA1HKR47	Electrolytic	50V	0.47	1	
C7020		ECEA1HK2R2	Electrolytic	50V	2.2	1	
C7021		ECEA1HK010	Electrolytic	50V	1	1	
C7022		ECEA1HK2R2	Electrolytic	50V	2.2	1	
C7023		ECEA1HKR47	Electrolytic	50V	0.47	1	
C7024		ECQB1H223JH	Mylar	50V	0.022	1	
C7025		ECEA1AS101	Electrolytic	10V	100	1	or ECEA1AU101
C7026-7028		ECEA1CK100	Electrolytic	16V	10	3	
C7029		ECEA1EK4R7	Electrolytic	25V	4.7	1	
C7030		ECQB1H183JH	Mylar	50V	0.018	1	
C7031		ECQB1H152JH	Mylar	50V	1500P	1	
C7032		ECQB1H153JH	Mylar	50V	0.015	1	
C7033		ECQB1H152JH	Mylar	50V	1500P	1	
C7034		ECEA1EK4R7	Electrolytic	25V	4.7	1	
C7035,7036		ECKF1H102KB	Ceramic	50V	1000P	2	
C7037		ECEA50Z1	Electrolytic	50V	1	1	
C7038,7039		ECEA1CU101	Electrolytic	16V	100	2	
C7040		ECKF1H102KB	Ceramic	50V	1000P	1	
C7041		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7042		ECEA1CK470	ELectrolytic	16V	47	1	
C7043		ECKF1H102KB	Ceramic	50V	1000P	1	
C7044		ECCF1H120JC	Ceramic	50V	12P	1	
C7045		ECKF1H102KB	Ceramic	50V	1000P	1	
C7046		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7047		ECCF1H120JC	Ceramic	50V	12P	1	
C7048		ECKF1H102KB	Ceramic	50V	1000P	1	
C7049		ECEA1CK470	Electrolytic	16V	47	1	
C7050		ECCF1H101JC	Ceramic	50V	100P	1	
C7051		ECEA1CK330	Electrolytic	16V	33	1	
C7052		ECEA1CK100	Electrolytic	16V	10	1	
C7053		ECQB1H223JH	Mylar	50V	0.022	1	
C7054		ECQB1H152JH	Mylar	50V	1500P	1	
C7055,7056		ECCF1H390JP	Ceramic	50V	39P	2	
C7057,7058		ECQB1H822JH	Mylar	50V	8200P	2	
C7091,7092		ECQB1H103JH	Mylar	50V	0.01	2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Coils		
L7001		VLQEL05F102K	1mH	1	
L7002		VTQ0016	36mH	1	
L7003,7004		VLQEL05F102K	1mH	2	
L7010,7011		VTQ0014	10mH	2	
			Transformers		
T7001		EIR7QG001B		1	
T7002,7003		EIS7E006B		2	
			Crystal Oscillators		
X7001,7002	✻	EFCS5R5MS4		2	EFCS5R5MS4B
X7003,7004		EFCS5R74MS4B		2	
X7005,7006		ELB5A016		2	
			Connectors		
P7006		VJP1230	3P	1	
P7007		VJP1232	5P	1	
		VEP07195A/B	Timer P.C. Board Unit		
			Integrated Circuits		
IC7501		MN1455BVL		1	
IC7503		MN1512VTJ		1	
IC7504		MN1228		1	
IC7505		AN5033		1	
			Transistors		
Q7501		2SB641		1	or 2SA564, 2SA733,
					2SB642
Q7503		2SD636		1	or 2SC1684, 2SC945A,
					2SD637
Q7506		2SB641		1	or 2SA564, 2SA733,
					2SB642
Q7507,7508		2SB644		2	
Q7510		2SD637		1	or 2SC1685
Q7511		2SB642		1	
Q7513-7515		2SB642		3	
Q7520		2SD636		1	or 2SC1684, 2SC945A,
					2SD637
Q7522		2SD636		1	or 2SC1684, 2SC945A,
					2SD637
			Combination Circuit		
			(Transistor & Resistor)		
QR7503		DTC144A		1	or UN1213
QR7504		DTC114A		1	or UN1211 NV-850E/EC

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Diodes		
D7501,7502		MA165		2	
D7505		LN28WPVT	LED	1	
D7506,7507		10E2		2	or ERB1202G1
D7509		MA27WB		1	
D7510		LN28WPVT	LED	1	
D7520		MA165		1	
D7521		MA165		1	NV-850E/EG
D7522		MA165		1	
D7523		LN38GCPP	LED	1	
D7550-7554		MA165		5	
D7561-7563		MA165		3	
D7574		MA165		1	
D7597		MA165		1	NV-850B
			Resistors		
R7501		ERDS2TJ122	1.2K	1	
R7502		ERC14GJ126	Solid 12M	1	
R7503,7504		ERDS2TJ102	1K	2	
R7505,7506		ERDS2TJ223	22K	2	
R7507		ERDS2TJ181	180	1	
R7508		ERDS2TJ334	330K	1	
R7509		EVNK6AA00B25	Variable 200K	1	or EVN61AA00B25
R7510		ERDS2TJ124	120K	1	
R7511		ERDS2TJ154	150K	1	
R7512		ERDS2TJ104	100K	1	
R7516		ERDS2TJ473	47K	1	
R7517		ERDS2TJ221	220	1	
R7518		ERDS2TJ105	1M	1	
R7526		ERDS2TJ104	100K	1	NV-850E/EG
R7527		ERDS2TJ104	100K	1	
R7528		ERDS2TJ103	10K	1	
R7529		ERDS2TJ473	47K	1	
R7530		ERDS2TJ104	100K	1	
R7531		ERDS2TJ124	120K	1	
R7532		ERDS2TJ122	1.2K	1	
R7533		EWEU2A016B24	Variable 20K	1	
R7534		ERDS2TJ271	270	1	
R7535		EVNK6AA00B14	Variable 10K	1	or EVN61AA00B14
R7536		ERDS2TJ103	10K	1	
R7537		ERDS2TJ473	47K	1	
R7539		ERDS2TJ390	39	1	
R7540		ERDS2TJ820	82	1	
R7541		ERDS2TJ153	15K	1	
R7542		ERDS2TJ473	47K	1	
R7546		ERDS2TJ273	27K	1	
R7547		ERDS2TJ104	100K	1	
R7548		ERDS2TJ472	4.7K	1	
R7549		ERDS2TJ104	100K	1	
R7550		ERDS2TJ391	390	1	
R7551-7556		ERDS2TJ273	27K	6	
R7557-7559		ERDS2TJ473	47K	3	
R7560		ERDS2TJ222	2.2K	1	
R7561		ERDS2TJ332	3.3K	1	
R7562		ERDS2TJ223	22K	1	
R7567		ERDS2TJ223	22K	1	
R7568		ERDS2TJ332	3.3K	1	NV-850E/EG

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
R7570,7571		ERDS2TJ332			3.3K	2	
R7575		ERDS2TJ334			330K	1	NV-850E/EG
R7576		ERDS2TJ223			22K	1	
R7577		ERDS2TJ473			47K	1	
R7579		ERDS2TJ473			47K	1	
			Capacitors				
C7501		ECCF1H080DC	Ceramic	50V	8P	1	
C7502		ECVIZW20X53T	Trimmer	500V	20P	1	
C7503		ECCF1H050CC	Ceramic	50V	5P	1	
C7504		ECCF1H330JC	Ceramic	50V	33P	1	
C7505		ECCF1H220JC	Ceramic	50V	22P	1	
C7506		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7507,7508		ECEA1HKR22	Electrolytic	50V	0.22	2	
C7510		ECEA1AK101	Electrolytic	10V	100	1	
C7511		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7512		ECEA1HKR22	Electrolytic	50V	0.22	1	
C7513,7514		ECCF1H470J	Ceramic	50V	47P	2	
C7515		ECQV1H104JZ	Mylar	50V	0.1	1	
C7516		ECQV1H683JZ	Mylar	50V	0.068	1	
C7517		ECQV1H273JZ	Mylar	50V	0.027	1	or ECQB1H273JH
C7518		ECQV1H823JZ	Mylar	50V	0.082	1	
C7519-7521		ECKF1H103ZF	Ceramic	50V	0.01	3	
C7522		ECEA1JS100	Electrolytic	63V	10	1	
C7523		ECEA1HK010	Electrolytic	50V	1	1	
C7524		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7527	*	ECEA1HK4R7	Electrolytic	50V	4.7	1	ECKF1HK4R7
C7528		ECQV1H473JZ	Mylar	50V	0.047	1	
C7530		ECEA1HK010	Electrolytic	50V	1	1	
C7531		ECEA1CK100	Electrolytic	16V	10	1	
C7532		ECEA1HK010	Electrolytic	50V	1	1	
C7533		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7540-7542		EECW2R3A3R3	Gold Capacitor	2.3V	3.3F	3	
C7543		ECEA1HK010	Electrolytic	50V	1	1	
C7550		ECCF1H101J	Ceramic	50V	100P	1	
C7553		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7554		ECKF1H103ZF	Ceramic	50V	0.01	1	
C7555		ECQV1H104JZ	Mylar	50V	0.1	1	
			Coil				
L7501		VLQEL05F102K			1mH	1	
			Crystal Oscillators				
X7501		VSX0071				1	
X7502		VSX0094				1	
X7503		VSX0082				1	
			Switches				
SW7516		VES0213				1	
SW7517		ESD14137A				1	or VSS0050 NV-850E/EG
SW7518		EVQQSB05G				1	
SW7519,7520		EVQQSB05G				2	NV-850E/EG
			Connectors				
P7501		VJP1237			10P	1	
P7503		VJP1235			8P	1	
P7505		VJP1229			2P	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Miscellaneous		
		VGQ0457	LED Spacer	1	(For D7523)
		VGT0305	VR Knob	1	
		VJF0004	Binder	1	
		VEP07196A/B	Timer Operation P.C.		
			Board Unit		
			Integrated Circuits		
IC7502		AN6873N		1	or MSL915RS
IC7506		MN1453VTN		1	
IC7580		μPC1373H		1	or μPC1373HA
			Transistors		
Q7523-7526		2SD636		4	or 2SC1684, 2SC945A,
					2SD637
Q7580		2SB641		1	or 2SA564, 2SA733,
					2SB642
Q7581		2SD636		1	or 2SC1684, 2SC945A,
					2SD637
			Combination Circuits		
			(Transistor & Resistor)		
QR7501,7502		DTA144A		2	or UN1113
QR7504		DTC114A		1	or UN1211 NV-850E/EG
			Diodes		
D7514		MA165		1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
D7516-6519		MA165				4	
D7530		MA165				1	
D7531-7537		LN071175P1	LED			7	
D7570		MA165				1	
D7571		MA165				1	
D7574-7579		LN061174P	LED			6	
D7595		MA165				1	NV-850E/EG
D7596		RD5.6EB	Zener			1	or MA1056
D7598,7599		MA165				2	
			Resistors				
R7515		ERDS2TJ561			560	1	
R7519		ERDS2TJ821			820	1	
R7520,7521		ERDS2TJ561			560	2	
R7538		ERDS2TJ221			220	1	
R7563		ERDS2TJ391			390	1	
R7564		ERDS2TJ821			820	1	
R7566		ERDS2TJ561			560	1	
R7573		ERDS2TJ2R7			2.7	1	
R7578		ERDS2TJ103			10K	1	
R7580		ERDS2TJ154			150K	1	
R7581		ERDS2TJ120			12	1	
R7582		ERDS2TJ102			1K	1	
R7583		ERDS2TJ473			47K	1	
R7584		ERDS2TJ334			330K	1	
R7585		ERDS2TJ124			120K	1	
R7586		ERDS2TJ473			47K	1	
R7599		ERDS2TJ223			22K	1	
			Capacitors				
C7551	*	ECEA1CK100BJ	Electrolytic	16V	10	1	ECEA1CK100BJ
C7552	*	ECEA1HKR22BJ	Electrolytic	50V	0.22	1	ECEA1HKR22BJ
C7580		ECQV1H183JZ	Mylar	50V	0.018	1	or ECQB1H183JZ
C7581		APS472J100	Mylar	100V	4700P	1	
C7582	*	ECEA1CK100	Electrolytic	16V	10	1	ECEA1CK100BJ
C7583	*	ECEA1HKR47	Electrolytic	50V	0.47	1	ECEA1HKR47BJ
C7584	*	ECEA1CK470	Electrolytic	16V	47	1	ECEA1CK470UJ
C7585	*	ECEA1CK100	Electrolytic	16V	10	1	ECEA1CK100BJ
C7586		ECQB1H102JH	Mylar	50V	1000P	1	
C7587	*	ECKF1H331KB	Ceramic	50V	330P	1	ECKZ1H331KB
			Transformer				
T7580		ELM7Q206A				1	
			Switches				
SW7501		EVQQS307K				1	
SW7504		ESD14182				1	
SW7505-7508		EVQQS307K				4	
SW7510		EVQQS307K				1	
SW7512,7513		EVQQS307K				2	
SW7514		VSP0111				1	or ESB64
SW7521,7522		EVQQS307K				2	
SW7524		EVQQS307K				1	
SW7525		ESB65140				1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Connectors		
P7504		VJP1235	8P	1	
P7506		VJP1230	3P	1	
			Display Tube		
DP7501		VSL0027		1	
			Miscellaneous		
		VGQ0417	Display Tube Holder	2	
		VGQ0458	Display Tube Spacer	2	
		VSC1087	Shield Case (Top)	1	
		VSC1088	Shield Case (Main)	1	
		VSC1089	Shield Case (Bottom)	1	
		VSC1090	Shield Case	1	
		VEP00A99A	FM Audio Main P.C. Board		
			Unit		
			Integrated Circuits		
IC4501,4502		AN6391		2	
IC4503		AN6291		1	
IC4504		AN6326N		1	
IC4505		AN6558		1	
IC4506,4507		TA7302P		2	
IC4508		AN78N05		1	
			Transistors		
Q4501-4505		2SD636		5	
Q4506		2SD655		1	(E,F)
Q4507-4511		2SD636		5	
Q4512		2SD655		1	(E,F)
Q4513-4516		2SD636		4	
Q4520		2SC2377		1	
Q4521		2SB641		1	
Q4522		2SD636		1	
Q4523		2SB641		1	
Q4524		2SD638		1	
Q4525		2SD636		1	
Q4526		2SC2377		1	
Q4527		2SB641		1	
Q4528-4531		2SD636		4	
Q4532,4533		2SD638		2	
Q4534,4535		2SD636		2	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Combination Circuits		
			(Transistor & Resistor)		
QR4501,4502		DTC124A		2	or UN1212
QR4505,4506		DTA124A		2	or UN1112
			Diodes		
D4501,4502		MA165		2	
D4503,4504	*	0A90		2	0A90R
D4505-4510		MA165		6	
D4511		RD4.7EB	Zener	1	
D4512		RD6.2EB	Zener	1	
D4514		MA165		1	
			Resistors		
R4501		ERDS2TJ333	33K	1	
R4502		ERDS2TJ682	6.8K	1	
R4503		EVN38CA00B23	Variable 2K	1	
R4504		ERDS2TJ392	3.9K	1	
R4505		ERDS2TJ472	4.7K	1	
R4506		ERDS2TJ104	100K	1	
R4507,4508		ERDS2TJ102	1K	2	
R4509		ERDS2TJ392	3.9K	1	
R4510		ERDS2TJ102	1K	1	
R4511		ERDS2TJ821	820	1	
R4512		ERDS2TJ331	330	1	
R4513		ERDS2TJ332	3.3K	1	
R4514		ERDS2TJ103	10K	1	
R4516		EVN61AA00B13	Variable 1K	1	
R4520,4521		ERDS2TJ473	47K	2	
R4522		ERDS2TJ272	2.7K	1	
R4523		ERDS2TJ332	3.3K	1	
R4524,4525		ERDS2TJ104	100K	2	
R4526		ERDS2TJ472	4.7K	1	
R4527		ERDS2TJ153	15K	1	
R4528		ERDS2TJ472	4.7K	1	
R4529-4531		ERDS2TJ473	47K	3	
R4532		ERDS2TJ222	2.2K	1	
R4533		ERDS2TJ103	10K	1	
R4534-4536		ERDS2TJ223	22K	3	
R4539		ERDS2TJ122	1.2K	1	
R4540		ERDS2TJ332	3.3K	1	
R4541		EVNK0AA00B25	Variable 200K	1	
R4542,4543		ERDS2TJ104	100K	2	
R4544		ERDS2TJ472	4.7K	1	
R4545		ERDS2TJ151	150	1	
R4546		ERDS2TJ472	4.7K	1	
R4547		ERDS2TJ153	15K	1	
R4548		ERDS2TJ102	1K	1	
R4550,4551		ERDS2TJ104	100K	2	
R4552		ERDS2TJ472	4.7K	1	
R4553		ERDS2TJ332	3.3K	1	
R4554		ERDS2TJ272	2.7K	1	
R4555-4559		ERDS2TJ473	47K	5	
R4560		ERDS2TJ472	4.7K	1	
R4561		ERDS2TJ153	15K	1	
R4562		ERDS2TJ222	2.2K	1	
R4563		ERDS2TJ182	1.8K	1	
R4564		ERDS2TJ103	10K	1	
R4565		ERDS2TJ223	22K	1	
R4566		ERDS2TJ103	10K	1	
R4567		ERDS2TJ182	1.8K	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R4568		EVN61AA00B15	Variable 100K	1	
R4570		ERDS2TJ103	10K	1	
R4571		ERDS2TJ122	1.2K	1	
R4572		EVNKOAA00B23	Variable 2K	1	
R4573		ERDS2TJ151	150	1	
R4574		ERDS2TJ153	15K	1	
R4575		ERDS2TJ472	4.7K	1	
R4576		ERDS2TJ562	5.6K	1	
R4577		ERDS2TJ563	56K	1	
R4578		ERDS2TJ562	5.6K	1	
R4579		ERDS2TJ473	47K	1	
R4580,4581		ERDS2TJ333	33K	2	
R4582		ERDS2TJ473	47K	1	
R4583		ERDS2TJ563	56K	1	
R4584		ERDS2TJ392	3.9K	1	
R4585		ERDS2TJ472	4.7K	1	
R4586		EVNKOAA00B13	Variable 1K	1	
R4587		ERDS2TJ103	10K	1	
R4590		ERDS2TJ104	100K	1	
R4591	*	ERDS2TJ472	4.7K	1	ERDS2TK472
R4592		ERDS2TJ104	100K	1	
R4593		EVNKOAA00B25	Variable 200K	1	
R4594		ERDS2TJ332	3.3K	1	
R4595		ERDS2TJ333	33K	1	
R4596		ERDS2TJ682	6.8K	1	
R4597		EVN38CA00B23	Variable 2K	1	
R4598		ERDS2TJ272	2.7K	1	
R4600		ERDS2TJ102	1K	1	
R4603,4604		ERDS2TJ104	100K	2	
R4605-4607		ERDS2TJ102	1K	3	
R4610		ERDS2TJ272	2.7K	1	
R4612		EVN61AA00B53	Variable 5K	1	
R4613		ERDS2TJ103	10K	1	
R4614		ERDS2TJ223	22K	1	
R4615		ERDS2TJ330	33	1	
R4616		ERDS2TJ222	2.2K	1	
R4617		ERDS2TJ102	1K	1	
R4618		ERDS2TJ391	390	1	
R4619		ERDS2TJ821	820	1	
R4620,4621		ERDS2TJ220	22	2	
R4622		ERDS2TJ152	1.5K	1	
R4623		ERDS2TJ223	22K	1	
R4624		ERDS2TJ332	3.3K	1	
R4625,4626		ERDS2TJ100	10	2	
R4627		ERDS2TJ332	3.3K	1	
R4628,4629		ERDS2TJ101	100	2	
R4630		ERDS2TJ222	2.2K	1	
R4631		ERDS2TJ152	1.5K	1	
R4632,4633		ERDS2TJ222	2.2K	2	
R4634		ERDS2TJ182	1.8K	1	
R4635		ERDS2TJ222	2.2K	1	
R4636		ERDS2TJ102	1K	1	
R4637		ERDS2TJ182	1.8K	1	
R4638		ERDS2TJ222	2.2K	1	
R4639		ERDS2TJ102	1K	1	
R4641		ERDS2TJ103	10K	1	
R4642		ERDS2TJ473	47K	1	
R4643		ERDS2TJ101	100	1	
R4644		ERDS2TJ103	10K	1	
R4645		ERDS2TJ102	1K	1	
R4646		ERDS2TJ103	10K	1	
R4647		ERDS2TJ822	8.2K	1	
R4648		ERDS2TJ153	15K	1	
R4649		ERDS2TJ333	33K	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R4650,4651		ERDS2TJ473	47K	2	
R4652		ERDS2TJ104	100K	1	
R4654		ERDS2TJ472	4.7K	1	
R4655,4656		ERDS2TJ182	1.8K	2	
R4657		ERDS2TJ103	10K	1	
R4659		ERDS2TJ473	47K	1	
R4661		ERDS2TJ104	100K	1	
R4662		ERDS2TJ102	1K	1	
R4663-4666		ERDS2TJ223	22K	4	
R4667,4668		ERDS2TJ102	1K	2	
R4669		ERDS2TJ473	47K	1	
R4670		ERDS2TJ474	470K	1	
R4671		ERDS2TJ561	560	1	
R4672		ERDS2TJ102	1K	1	
			Capacitors		
C4501		ECEA1CK100	Electrolytic 16V 10	1	
C4502,4503		ECEA1EK3R3	Electrolytic 25V 3.3	2	
C4504		ECCF1H101JC	Ceramic 50V 100P	1	
C4505		ECEA1CK100	Electrolytic 16V 10	1	
C4506		ECKF1H103ZF	Ceramic 50V 0.01	1	
C4507		ECCF1H820JC	Ceramic 50V 82P	1	
C4508,4509		ECCF1H680JC	Ceramic 50V 68P	2	
C4511,4512		ECKF1H1032F	Ceramic 50V 0.01	2	
C4513		ECEA1CK100	Electrolytic 16V 10	1	
C4514		ECEA1CK220	Electrolytic 16V 22	1	
C4515	*	ECEA1CKN100	Eelctrolytic 16V 10	1	ECEA1CKN100J
C4516		ECQB1H103KH	Mylar 50V 0.01	1	
C4517		ECEA1CK100	Electrolytic 16V 10	1	
C4518		ECKF1H221KB	Ceramic 50V 220P	1	
C4519		ECKF1H331KB	Ceramic 50V 330P	1	
C4520		ECEA1CK100	Electrolytic 16V 10	1	
C4521		ECKF1H103ZF	Ceramic 50V 0.01	1	
C4522,4523		ECEA1CK100	Electrolytic 16V 10	2	
C4526,4527		ECEA1CK100	Electrolytic 16V 10	2	
C4533	*	ECEA25M3R3	Electrolytic 25V 3.3	1	ECEA25M3R3B
C4534		ECQB1H223JH	Mylar 50V 0.022	1	
C4535		ECEA1CK100	Electrolytic 16V 10	1	
C4537		ECEA25M3R3	Electrolytic 25V 3.3	1	
C4538		ECQB1H123JH	Mylar 50V 0.012	1	
C4539		ECEA1CK470	Electrolytic 16V 47	1	
C4540,4541		ECEA1CK100	Electrolytic 16V 10	2	
C4542	*	ECEA10M100	Electrolytic 10V 100	1	ECEA10M10
C4543		ECQB1H472JH	Mylar 50V 4700P	1	
C4544	*	ECKF1H331K	Ceramic 50V 330P	1	ECKF1H331KB
C4545		ECQB1H123JH	Mylar 50V 0.012	1	
C4546,4547		ECEA1CK100	Electrolytic 16V 10	2	
C4548,4549		ECEA1CK330	Electrolytic 16V 33	2	
C4550		ECCF1H330KC	Ceramic 50V 33P	1	
C4551		ECEA1CK100	Electrolytic 16V 10	1	
C4552		ECQB1H103JH	Mylar 50V 0.01	1	
C4553	*	ECEA1AK330	Electrolytic 10V 33	1	ECEA1AK330B J
C4555	*	ECEA1CK100	Electrolytic 16V 10	1	ECEA1CK100B J
C4556	*	ECEA1CK330	Electrolytic 16V 33	1	ECEA1CK330J J
C4557		ECCF1H330KC	Ceramic 50V 33P	1	
C4558		ECEA25M3R3	Electrolytic 25V 3.3	1	
C4560		ECQB1H123JH	Mylar 50V 0.012	1	
C4561		ECEA1CK100	Electrolytic 16V 10	1	
C4568		ECEA25M3R3	Electrolytic 25V 3.3	1	
C4569		ECEA1CK100	Electrolytic 16V 10	1	
C4570		ECQB1H223JH	Mylar 50V 0.022	1	
C4571		ECEA1CK100	Electrolytic 16V 10	1	
C4572	*	ECEA10M100	Electrolytic 10V 100	1	ECEA10M10
C4573		ECQB1H472JH	Mylar 50V 4700P	1	
C4574		ECKF1H331KB	Ceramic 50V 330P	1	

Ref. No.		Part No.	Part Name & Description			Pcs / Set	Remarks
C4575		ECQB1H123JH	Mylar	50V	0.012	1	
C4576,4577		ECEA1CK100	Electrolytic	16V	10	2	
C4578		ECQB1H103JH	Mylar	50V	0.01	1	
C4579,4580		ECEA1CK100	Electrolytic	16V	10	2	
C4581,4582		ECEA1EK3R3	Electrolytic	25V	3.3	2	
C4583		ECCF1H101JC	Ceramic	50V	100P	1	
C4584		ECQV1H104JZ	Mylar	50V	0.1	1	
C4585		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4586		ECCF1H820JC	Ceramic	50V	82P	1	
C4587,4588		ECCF1H470JC	Ceramic	50V	47P	2	
C4590		ECEA1CK100	Electrolytic	16V	10	1	
C4591		ECEA1CK220	Electrolytic	16V	22	1	
C4592		ECEA1CKN100	Electrolytic	16V	10	1	
C4594		ECQB1H103KH	Mylar	50V	0.01	1	
C4595		ECEA1CK100	Electrolytic	16V	10	1	
C4596		ECKF1H221KB	Ceramic	50V	220P	1	
C4597		ECKF1H331KB	Ceramic	50V	330P	1	
C4598,4599		ECEA1CK100	Electrolytic	16V	10	2	
C4602		ECEA1CK100	Eelctrolytic	16V	10	1	
C4603-4608		ECKF1H103ZF	Ceramic	50V	0.01	6	
C4609		ECEA16Z10	Electrolytic	16V	10	1	
C4610		ECEA1CK100	Electrolytic	16V	10	1	
C4611		ECEA0JK470	Electrolytic	6.3V	47	1	
C4612		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4613		ECEA1CK100	Electrolytic	16V	10	1	
C4614,4615		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4616		ECEA1CK100	Electrolytic	16V	10	1	
C4617		ECEA1HK010	Electrolytic	50V	1	1	
C4618		ECEA1CK100	Electrolytic	16V	10	1	
C4619		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4620,4621		ECQV1H473JZ	Mylar	50V	0.047	2	
C4622,4623		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4625,4626		ECQV1H473JZ	Mylar	50V	0.047	2	
C4627,4628		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4629		ECEA16Z10	Electrolytic	16V	10	1	
C4630,4631		ECKF1H103ZF	Ceramic	50V	0.01	2	
C4632		ECEA1CK100	Electrolytic	16V	10	1	
C4633		ECEA50ZR22	Electrolytic	50V	0.22	1	
C4634		ECEA10Z47	Electrolytic	10V	47	1	
C4635		ECEA16Z47	Electrolytic	16V	47	1	
C4637		ECQB1H103JH	Mylar	50V	0.01	1	
C4638		ECEA1CK100	Electrolytic	16V	10	1	
C4639		ECQB1H103JH	Mylar	50V	0.01	1	
C4640		ECKF1H103ZF	Ceramic	50V	0.01	1	
C4641		ECEA1HK0R1	Electrolytic	50V	0.1	1	
C4642		ECEA16Z10	Electroytic	16V	10	1	
C4643,4644		ECEA1CK100	Electrolytic	16V	10	2	
C4645,4646		ECCF1H470JC	Ceramic	50V	47P	2	
C4647		ECCF1H080DC	Ceramic	50V	8P	1	
C4648		ECEA1EK4R7	Electrolytic	25V	4.7	1	
			Coils				
L4501		VLQEL05F101K			100μH	1	
L4505-4507		VLQEL05F101K			100μH	3	
L4512		VLQEL05F101K			100μH	1	
L4513		VLQEL05F471K			470μH	1	
L4514		VLQEL05F121K			120μH	1	
L4515,4516		VLQEL05F2R2K			2.2μH	2	
			Filters				
FL4501		VLF0317				1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
FL4502	*	VLF0318		1	VLF0317
FL4503,4504	*	ELT1QD001B		2	EIT1QD001B
FL4505,4506		VLF0305		2	
			Connectors		
P4502		VJP1235	8P	1	
P4505		VJP1233	6P	1	
P4506		VJP1232	5P	1	
			Miscellaneous		
		VSC1084	Shield Case (Main)	1	
		VSC1085	Shield Case (Top)	1	
		VSC1086	Shield Case (Bottom)	1	
		VJF0108	Rivet	2	
		VJF0175	P.C. Board Support	1	
		VXA2062	Barrier	1	
		VEP00B01A/B/C	FM Audio Sub P.C.Board		
			Unit		
			Integrated Circuits		
IC4301		TC9145P		1	
IC4302		TA7325P		1	
IC4303,4304		μPD4066BC		2	
IC4305		μPC4558C		1	
IC4306		BA6138		1	
IC4307		μPC4557C		1	
			Transistors		
Q4301,4302		2SD636		2	
Q4303,4304		2SD661		2	(S,T)
Q4305		2SD655		1	(E,F)
Q4306,4307		2SD661		2	(S,T)
Q4308		2SD655		1	(E,F)
Q4310,4311		2SB641		2	
Q4312		2SD636		1	
Q4313		2SB641		1	
Q4314,4315		2SD655		2	(E,F)
Q4318		2SD636		1	
			Combination Circuits		
			(Transistor & Resistor)		

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
QR4301		DTA114A		1	
QR4302-4305		DTC144A		4	
QR4306		DTC124A		1	or UN1212
			Diodes		
D4301-4304		MA165		4	
D4307-4317		MA165		11	
			Resistors		
R4301-4303		ERDS2TJ104	100K	3	
R4304		ERDS2TJ223	22K	1	
R4305		ERDS2TJ123	12K	1	
R4306		ERDS2TJ223	22K	1	
R4307		ERDS2TJ123	12K	1	
R4308		ERDS2TJ124	120K	1	
R4309		ERDS2TJ184	180K	1	
R4310		ERDS2TJ472	4.7K	1	
R4311		ERDS2TJ124	120K	1	
R4312		ERDS2TJ184	180K	1	
R4313		ERDS2TJ472	4.7K	1	
R4314,4315		ERDS2TJ223	22K	2	
R4317		ERDS2TJ151	150	1	
R4318		ERDS2TJ181	180	1	
R4319		ERDS2TJ394	390K	1	
R4320		ERDS2TJ332	3.3K	1	
R4323		ERDS2TJ223	22K	1	
R4325		ERDS2TJ151	150	1	
R4326		ERDS2TJ181	180	1	
R4327		ERDS2TJ332	3.3K	1	
R4328		ERDS2TJ394	390K	1	
R4329		EVNK0AA00B55	Variable 500K	1	
R4330,4331		ERDS2TJ104	100K	2	
R4332,4333		ERDS2TJ224	220K	2	
R4334,4335		ERDS2TJ472	4.7K	2	
R4336		ERDS2TJ273	27K	1	
R4338		ERDS2TJ473	47K	1	
R4339		ERDS2TJ474	470K	1	
R4340-4342		ERDS2TJ473	47K	3	
R4343		ERDS2TJ223	22K	1	
R4344		ERDS2TJ103	10K	1	
R4349,4350		ERDS2TJ823	82K	2	
R4351,4352		ERDS2TJ103	10K	2	
R4353,4354		ERDS2TJ473	47K	2	
R4355		ERDS2TJ223	22K	1	
R4356		ERDS2TJ221	220	1	
R4357,4358		ERDS2TJ223	22K	2	
R4360,4361		ERDS2TJ104	100K	2	
R4362		ERDS2TJ222	2.2K	1	
R4363		ERDS2TJ332	3.3K	1	
R4364		ERDS2TJ222	2.2K	1	
R4365		ERDS2TJ332	3.3K	1	
R4366		ERQ14AJ330	Metal 33	1	
R4367,4368		ERDS2TJ224	220K	2	
R4370,4371		ERDS2TJ101	100	2	
R4372		ERDS2TJ103	10K	1	
R4374		ERDS2TJ104	100K	1	
R4375		ERDS2TJ154	150K	1	
R4377		ERDS2TJ104	100K	1	
R4379		ERDS2TJ334	330K	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
R4380		ERDS2TJ333	33K	1	
R4381		ERDS2TJ154	150K	1	
R4382,4383		ERDS2TJ473	47K	2	
R4385-4387	*	ERDS2TJ473	47K	3	ERDS2T473
R4388-4392		ERDS2TJ333	33K	5	
R4394		ERDS2TJ391	390	1	
R4395		ERDS2TJ471	470	1	
R4396		ERDS2TJ391	390	1	
R4397		ERDS2TJ471	470	1	
R4398		ERDS2TJ333	33K	1	
R4399		ERDS2TJ223	22K	1	
R4400		ERDS2TJ333	33K	1	
R4401		ERDS2TJ223	22K	1	
R4402-4407		ERDS2TJ474	470K	6	
R4408		ERDS2TJ473	47K	1	
R4409		ERDS2TJ103	10K	1	
R4410,4411		ERDS2TJ223	22K	2	
R4412		ERDS2TJ102	1K	1	
R4413,4414		ERDS2TJ223	22K	2	
R4416		ERDS2TJ104	100K	1	
			Capacitors		
C4301-4306		ECEA1HK010	Electrolytic 50V 1	6	
C4307-4309		ECEA1CK100	Electrolytic 16V 10	3	
C4310		ECEA1AK330	Electrolytic 10V 33	1	
C4311		ECEA1CK100	Electrolytic 16V 10	1	
C4312		ECEA1CK101	Electrolytic 16V 100	1	
C4313		ECEA1CK100	Electrolytic 16V 10	1	
C4314		ECEA1AK330	Electrolytic 10V 33	1	
C4315		ECEA1CK100	Electrolytic 16V 10	1	
C4316,4317		ECEA1HK010	Electrolytic 50V 1	2	
C4318		ECEA1CK101	Electrolytic 16V 100	1	
C4319,4320		ECKF1H103ZF	Ceramic 50V 0.01	2	
C4321,4322		ECEA1CK470	Electrolytic 16V 47	2	
C4323		ECEA1CK100	Electrolytic 16V 10	1	
C4324		ECEA1AU221	Electrolytic 10V 220	1	
C4325,4326		ECEA1CK100	Electrolytic 16V 10	2	
C4327		ECEA1CK470	Electrolytic 16V 47	1	
C4328		ECEA1EK100	Electrolytic 25V 10	1	
C4329-4331		ECEA1CK100	Electrolytic 16V 10	3	
C4332		ECEA1CU221	Electrolytic 16V 220	1	
C4333,4334		ECEA1AK470	Electrolytic 10V 47	2	
C4335,4336		ECEA1HK0R1	Electrolytic 50V 0.1	2	
C4337		ECEA1CK101	Electrolytic 16V 100	1	
C4338-4341	*	ECEA1CK100	Electrolytic 16V 10	4	ECEA1CK1DOBJ
C4343,4344		ECEA1CK100	Electrolytic 16V 10	2	
C4345,4346		ECEA1HK3R3	Electrolytic 50V 3.3	2	
			Connectors		
P4301		VJP1245	5P	1	
P4303		VJP1245	5P	1	
P4305		VJP1245	5P	1	
P4307		VJP1247	7P	1	
P4308		VJP1243	3P	1	
P4309		VJP1245	5P	1	
P4310,4311		VJP1243	3P	2	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	ENC87751	RF Converter Unit		
	/ENC87752			
		Integrated Circuit		
IC1	AN3130		1	
		Transistors		
Q1	2SC2480		1	(UQ-J)
Q2,3	2SC2570		1	or 2SC2671
		Diodes		
D1,2	1SS174		2	or 1SS86
D3,4	1SS135		2	or MA161
D5	MA161		1	NV-850B
		Resistors		
R1	ERJ8GC391	Chip 390	1	
R2	ERD10TJ681	1/8W 680	1	
R3	EVNJ8CA00B14	Variable 10K	1	
R4	ERD25FJ121	Metal 120	1	
R5	ERD10TJ823	1/8W 82K	1	
R6	ERJ8GCS682	Chip 6.8K	1	
R7	ERD10TJ682	1/8W 6.8K	1	NV-850E/EG
R7	ERD10TJ472	1/8W 4.7K	1	NV-850B
R8	ERJ8GCJ273	Chip 27K	1	
R9	ERJ8GCJ101	Chip 100	1	
R10	ERD10TJ221	1/8W 220	1	
R11	ERD10TJ470	1/8W 47	1	
R12	ERD10TJ680	1/8W 68	1	
R16	ERJ8GCJ101	Chip 100	1	
R17,18	ERD10TJ151	1/8W 150	2	
R19	ERJ8GCS332	Chip 3.3K	1	
R20	ERJ8GCS471	Chip 470	1	
R21	ERJ8GCS150	Chip 15	1	
R23	ERJ8GCS331	Chip 330	1	
R24	ERJ8GCS561	Chip 560	1	
R25	ERD10TJ390	1/8W 39	1	
R26	ERD10TJ182	1/8W 1.8K	1	
R27	ERJ8GCS471	Chip 470	1	
R28	ERJ8GCS180	Chip 18	1	
R29	ERD10TJ331	1/8W 330	1	
R30	ERJ8GCS390	Chip 39	1	
R31	ERD10TJ750	1/8W 75	1	
R32	ERD10TJ561	1/8W 560	1	
R33	ERD10TJ273	1/8W 27K	1	NV-850B
R34	ERD10TJ271	1/8W 270	1	
R35	ERJ8GCS271	Chip 270	1	
R36	ERD10TJ271	1/8W 270	1	
R37	ERJ8GCS271	Chip 270	1	
R38	ERJ8GCS122	Chip 1.2K	1	
R39	ERD10TJ221	1/8W 220	1	
R40	ERD10TJ000	0	1	

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Switch		
SW1	ESD14515		1	
		Connectors		
P1	VJP1244	4P	1	
P2	VJP1243	3P	1	

NOTE:
The capacitors, Filters, Transformers for the RF Converter Unit are not available as spare parts.

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
	VJB00A53	Reel Sensor P.C. Board		
IC1501	ON2160	Photo Interrupter	1	
	VMX0645	Sensor Spacer	1	
	VJB00A54	Loading Motor Connection		
		P.C. Board		
		Capacitor		
C1504	VCYF1C333MR	Semiconductor 16V 0.033	1	
		Connectors		
P1512	VJP1246	6P	1	
P1513	VJP1242	2P	1	
P1514	VJP1229	2P	1	
P1515	VJP1242	2P	1	
	VJB00A55	Front Connection P.C.		
		Board		
		Connectors		
P1508	VJP1246	6P	1	
P1509	VJP1242	2P	1	
P1510	VJP1244	4P	1	
P1511	VJP1243	3P	1	
	VJB00A56	Takeup Photo Transistor		
		P.C. Board		
		Transistor		
Q6552	PN150NV	Photo Transistor	1	
	VMD0091	Transistor Holder	1	
	VJB00A82	Front Loading Motor		
		Connection P.C. Board		
		Capacitor		
C1503	ECKF1H102KB	Ceramic 50V 1000P	1	
		Switches		
	VSM0046		2	Cassette Up/Down SW
	VSM0047		1	Cassette In SW

Ref. No.	Part No.	Part Name & Description	Pcs / Set	Remarks
		Connector		
P1507	VJP1248	8P	1	
	VJB00A94	Supply Photo Transistor		
		P.C. Board		
		Transistor		
Q1502	PN150NV	Photo Transistor	1	
		Capacitor		
C1502	ECKF1H102KB	Ceramic 50V 1000P	1	
	VMD0091	Transistor Holder	1	
	VJB00A98	Rear Jack P.C. Board		
		Resistors		
R1401	ERDS2TJ560	56	1	
R1402	ERDS2TJ271	270	1	NV-850I/EG
R1402	ERDS2TJ101	100	1	NV-850I
R1403	ERDS2TJ560	56	1	
R1404	ERDS2TJ271	270	1	NV-850I/EG
R1404	ERDS2TJ101	100	1	NV-850I
R1405,1406	ERDS2TJ101	100	2	NV-850I/EG
		Capacitors		
C1401,1402	ECKF1H222KB	Ceramic 50V 2200P	2	
		Switchs		
S1401	ESD14130		1	
S1402	ESD14161		1	NV-850N/EG
S1402	ESD14130		1	NV-850P
		Connectors		
P3001	VJP1242	2P	1	
P3002	VJP1243	3P	1	
P3003	VJP1244	4P	1	
P3004	VJP1243	3P	1	NV-850P/EG
P4302	VJP1244	4P	1	NV-850P/EG
P4304	VJP1246	6P	1	
P4306	VJP1243	3P	1	
P4401	VJP1243	3P	1	
		Miscellaneous		
	XTV3+8G	Screw	3	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
		VJB00B45	Heater Transformer P.C.		
			Board		
			Transistor		
Q1201		2SD638		1	
			Diode		
D1201		RD15EB	Zener	1	
			Resistor		
R1201		ERDS2TJ222	2.2K	1	
			Transformer		
	*	ETE24Y1AX	Heater Transformer	1	TE3045T
			Connector		
P1011		VJP1230	3P	1	
		VJB00B46	Power Transistor P.C.		
			Board		
			Transistors		
Q1002		2SD1275		1	⚠
Q1101		2SD1265		1	⚠
			Capacitors		
C1201,1202		ECKF1H103ZF	Ceramic 50V 0.01	2	
			Connectors		
P1005		VJP1243	3P	1	
P1006		VJP1244	4P	1	
			Miscellaneous		
		VSC1064	Power Heat Sink	1	
		XTV3+8J	Screw	3	
		VJB00B64	IR Remote Control		
			Receiver P.C. Board		
			Diode		
D7580		PN313		1	

Ref. No		Part No.	Part Name & Description	Pcs / Set	Remarks
			Connector		
P7580		VJP1224	2P	1	
		VJB00B78	Cylinder Heater P.C.		
			Board		
			Transistor		
Q1501		2SD1275		1	⚠
			Capacitor		
C1501		ECKF1H103ZF	Ceramic 50V 0.01	1	
			Connector		
P1506		VJP1243	3P	1	
		VJB00976	Sensor LED P.C. Board		
D1501		GL450	LED	1	or LN59
		VMD0465	LED Holder	1	
		VJB01137	Power Transformer P.C.		
			Board		
			Transistor		
Q1103		2SA684		1	⚠
			Diodes		
D1101-1104		10E1		4	⚠
D1105		RD6.8EB	Zener	1	
D1106-1109		10E1		4	⚠
D1111,1112		10E2		2	⚠
D1113		RD30EB	Zener	1	or EQA023OC
			Resistors		
R1101		ERDS2TJ391	390	1	
R1103		ERQ14LK1R5	Metal 1.5	1	⚠
R1104		ERDS2TJ392	3.9K	1	
			Capacitors		
C1101		ECEA1CU332	Electrolytic 16V 3300	1	
C1102		ECEA1CU470	Electrolytic 16V 47	1	
C1103		ECEA1EU332	Electrolytic 25V 3300	1	
C1105,1106		ECEA1JU101	Electrolytic 63V 100	2	
C1107		ECEA1HU470	Electrolytic 50V 47	1	
C1108		ECKF1H1032F	Ceramic 50V 0.01	1	

Ref. No.		Part No.	Part Name & Description	Pcs / Set	Remarks
			Fuses		
F1101		XBA2C05TR0C	500mA	1	⚠
F1102,1103		XBA2C16TR0C	1.6A	2	⚠
			Connectors		
P1001		VJP1231	4P	1	
P1002		VJP1230	3P	1	
P1003		VJP1141	2P	1	
P1004		VJP1231	4P	1	
P7502		VJP1234	7P	1	
			Miscellaneous		
		VJF0052	Binder	1	
		VMX0237	AC Cord Cover	1	⚠
		VGH0079	Power Name Plate	1	
		VJA011I	AC Cord	1	NV-850E/EG ⚠
		VJA0112	AC Cord	1	NV-850B ⚠
		VMP0371	Transformer Angle	1	⚠
		VJF0107	Bushing	1	⚠
		SJT777	AC Cord Clamp Pin	2	⚠
		TJC6320	Fuse Holder	6	⚠
	*	———	Spacer	1	VQL322 (Not available)
	*	VEP00C08	IR Remote Control		VJB00C08
			Transmitter P.C. Board		
			Integrated Circuit		
IC1		MN6030B		1	
			Transistor		
Q1		2SD1458		1	
			Diodes		
D1		LN66	LED	1	or SE303A
D3		MA154WK		1	
			Resistors		
R1		ERDS2TJ102	1K	1	
R2		ERDS2TJ473	47K	1	
R3		ERDS2TJ1R0	1	1	
			Capacitors		
C1		ECKF1H471KB	Ceramic 50V 470P	1	
C2		ECKF1H121KB	Ceramic 50V 120P	1	
C3		ECEA0JK101	Electrolytic 6.3V 100	1	
			Crystal Oscillator		
X1		CSB420PB1		1	or EF0K420K05F1
			Switch		
SW1		ESD14126		1	

Panasonic

MATSUSHITA ELECTRIC

Printed in Japan

Order No. VRD-SS-403-5

Service Manual

Effective From: VEP06190B1 ..... C4HK.....(AG-6200/6100)
C4HL.....(AG-6800)
VEP02181A/B/C .. D4HK00001(AG-6200/6100)
D4HL00001(AG-6800)

VHS Video Cassette Recorder

Model No. AG-6200/6100-E/B/A/EN
AG-6800-E/B/A/EN

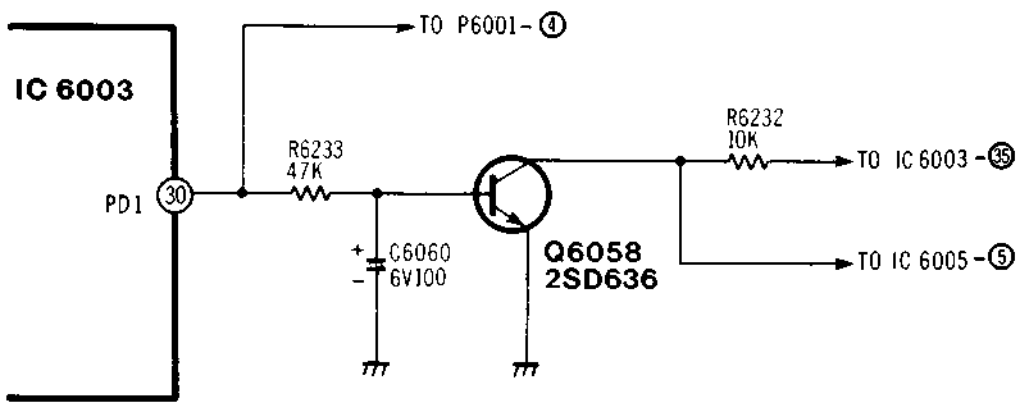
Supplement

Subject: Change of the System Control C.B.A. and Servo C.B.A.

Please use this manual together with the Service Manual for Model No. AG-6200/6100 and AG-6800
Order No. VRD-8309-484(AG-6200/6100-E/B/A/EN), VRD-8312-499(AG-6800-E/B/A/EN)

The System Control circuit board and Servo circuit board of Models AG-6200/6100/6800-E/B/A/EN have been modified to impove reliability.
The parts tentatively put on the foil side of the System Control and Servo circuit boards will be installed onto the component side. Since the early type C.B.A. is compatible with the new type C.B.A., the board numbers have not been changed.
However, following countermeasures have been introduced to the new System Control C.B.A. (VEP06190B1).

* When the Play Key is pressed immediately after the cassette tape is inserted, the tape may sub-load before cassette down is completed.
  To prevent this, the System Control Circuit has been changed as shown below.



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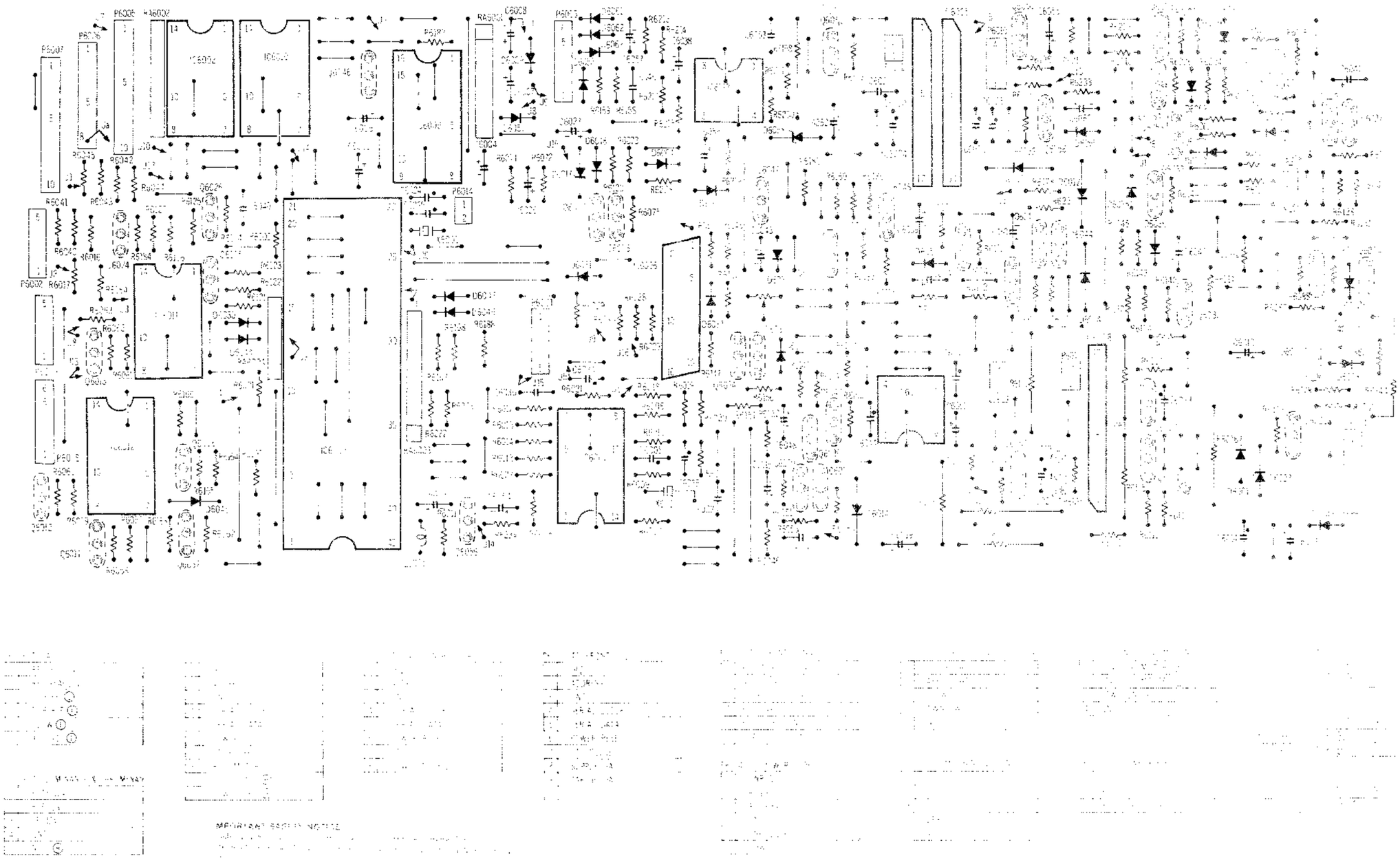
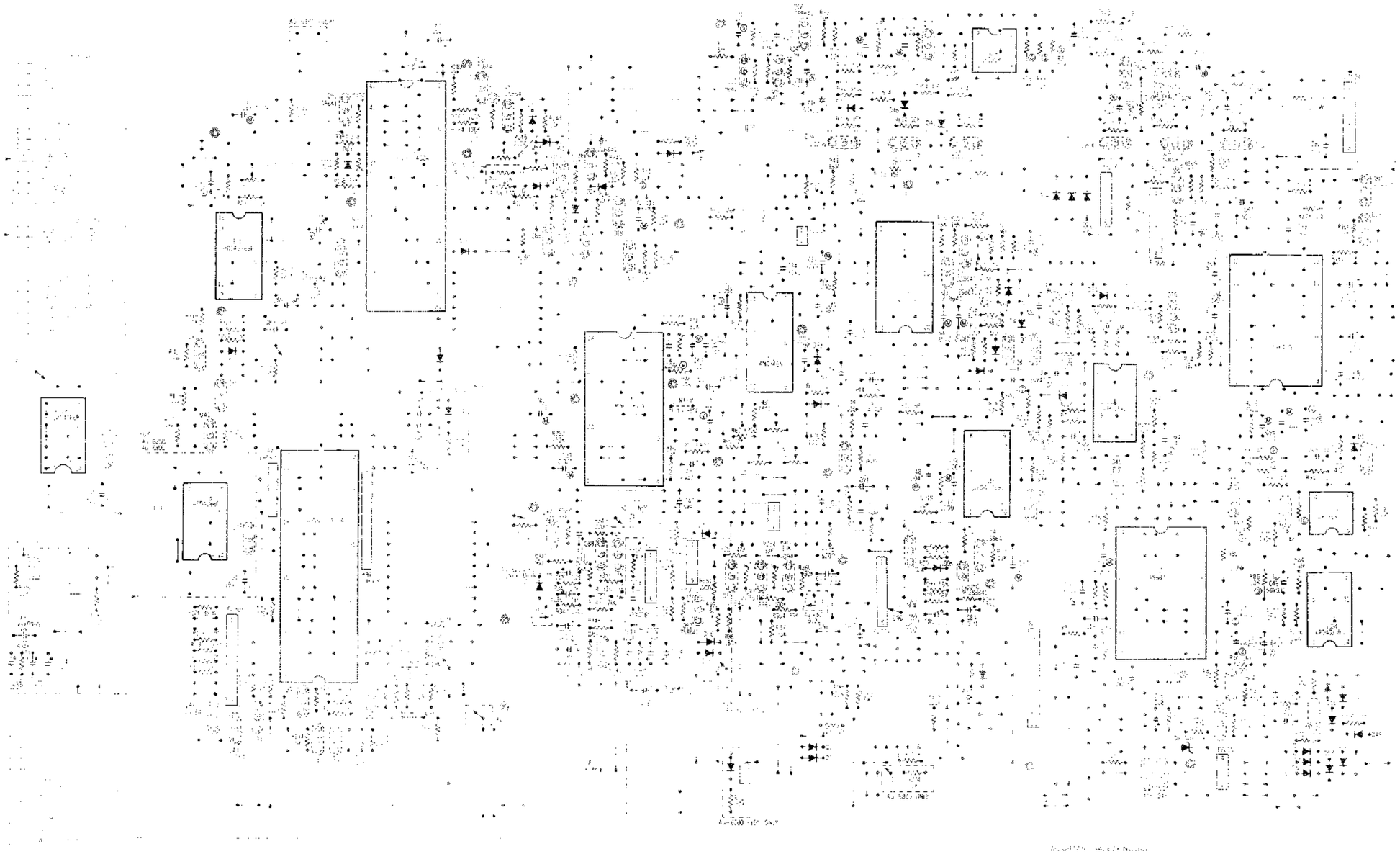
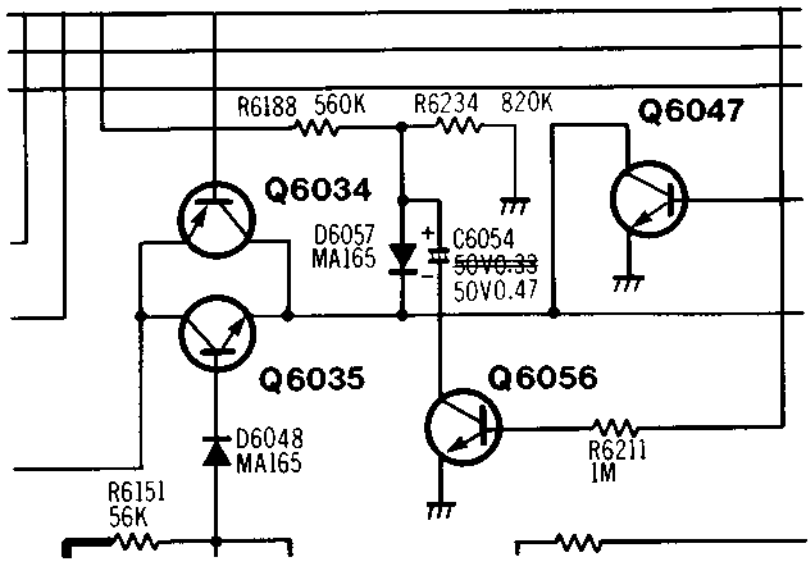
P.O. Box 288, Central Osaka Japan

SYSTEM CONTROL C.B.A. (VEP06190B1)



SERVO C.B.A. (VEP02181A : AG-6200/VEP02181B : AG-6100/VEP02181C : AG-6800)





[System Control C.B.A. (VEP06190B1)]

Part Number			
Ref. No.	**Original Part No.**	**New Part No.**	**Part Name & Descriptions**
			[System Control C.B.A.(VEP06190B1)]
Q6508	-----	2SD636	Transistor
C6054	ECEA1HKR33	ECEA1HSR47	Capacitor (50V 0.33 → 50V 0.47)
C6060	-----	ECEA0JS101	Capacitor (6V 100)
R6232	-----	ERDS2TJ103	Resistor (10KΩ)
R6233	-----	ERDS2TJ473	Resistor (47KΩ)
R6234	-----	ERDS2TJ824	Resistor (820KΩ)
			[Servo C.B.A.(VEP02181A/B/C)]
R2366	ERDS2TJ103	ERDS2TJ333	Resistor (33KΩ)