TEAC®

SERVICE MANUAL

MV1411P

13" COLOR TV WITH VIDEO CASSETTE PLAYER/RECORDER

Effective: November, 1998

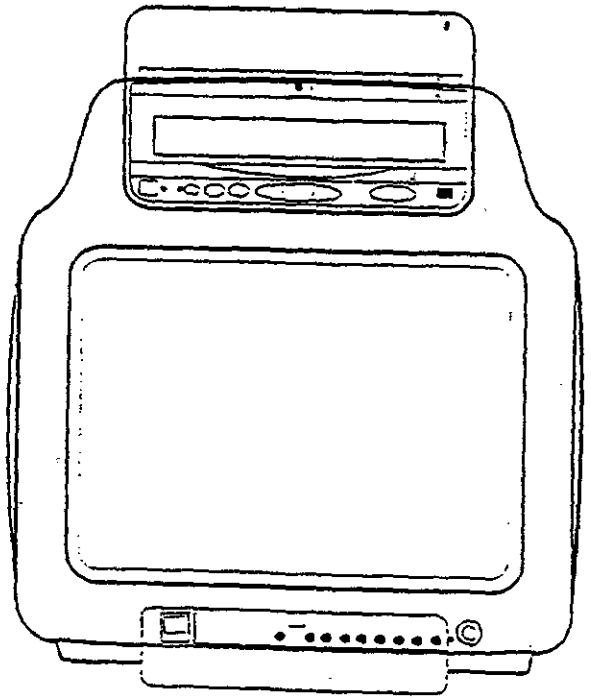
MV1411PSERV

CONTENTS

Service Manual

MODEL NO: MV-1411P (same as MV1414P)
(except for front fuse)

13" COLOR TV WITH VIDEO CASSETTE PLAYER/RECORDE



V.C.R 28/2/96

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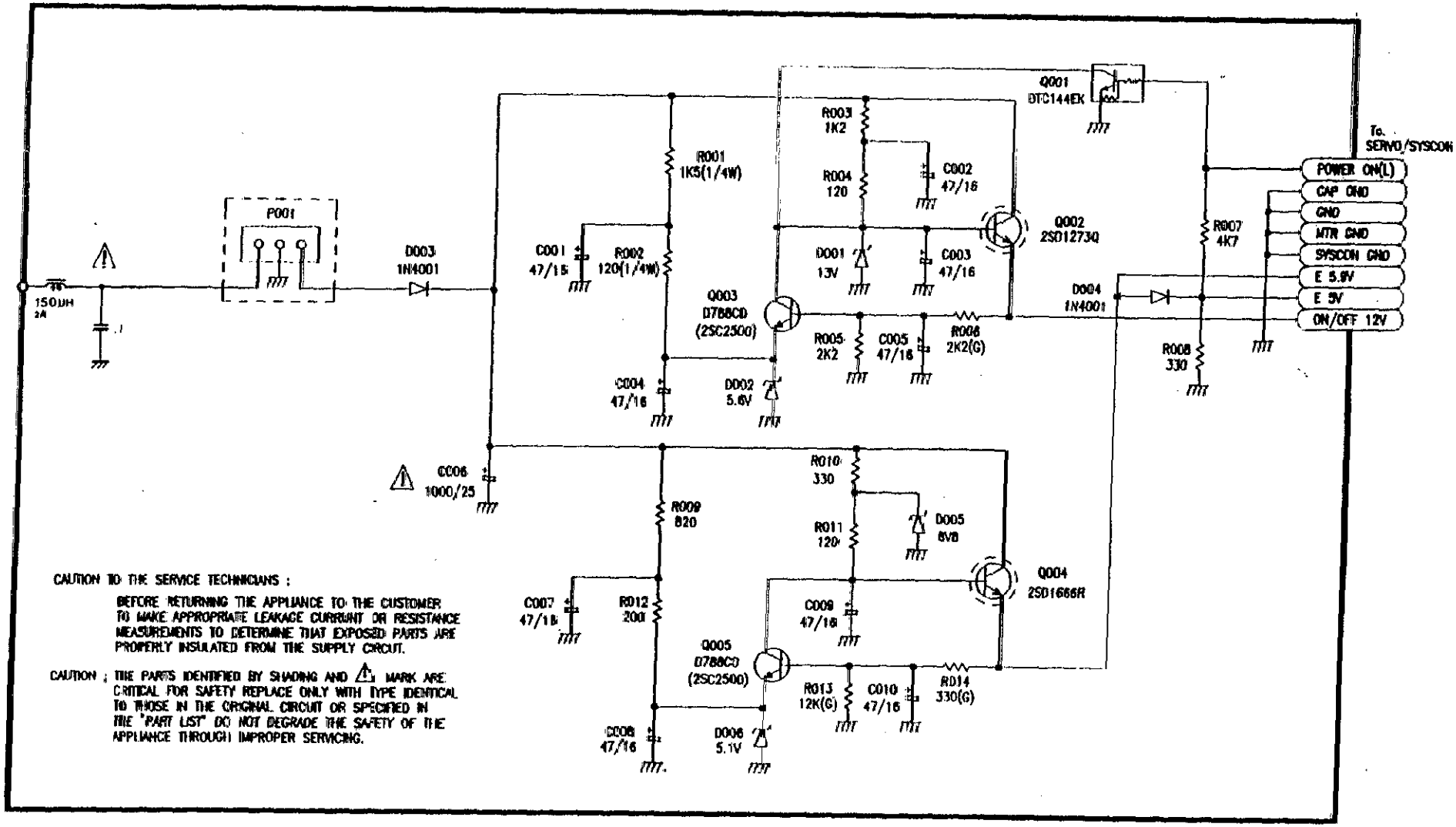
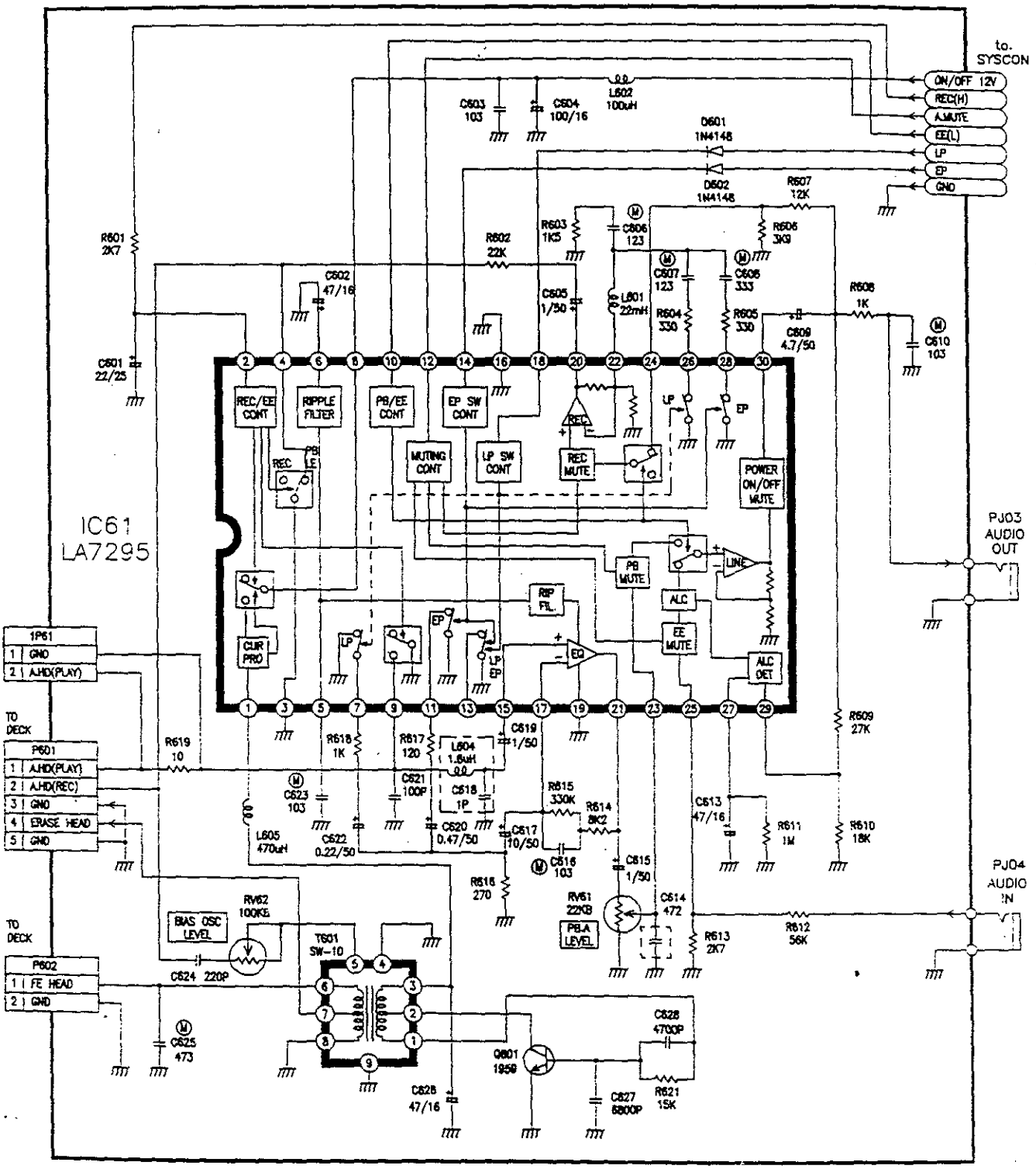
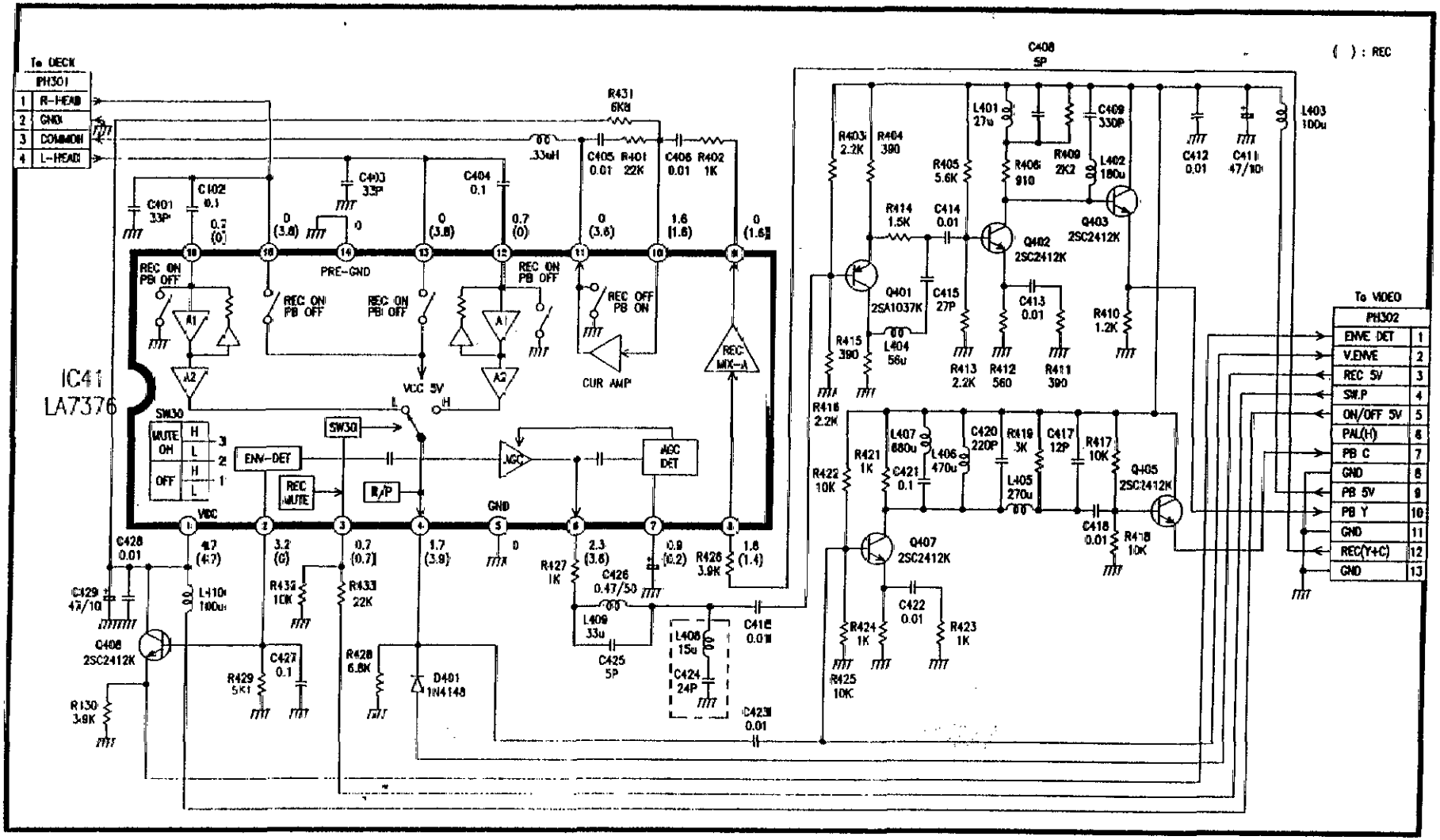
VDR POWER SCHEMATIC DIAGRAM



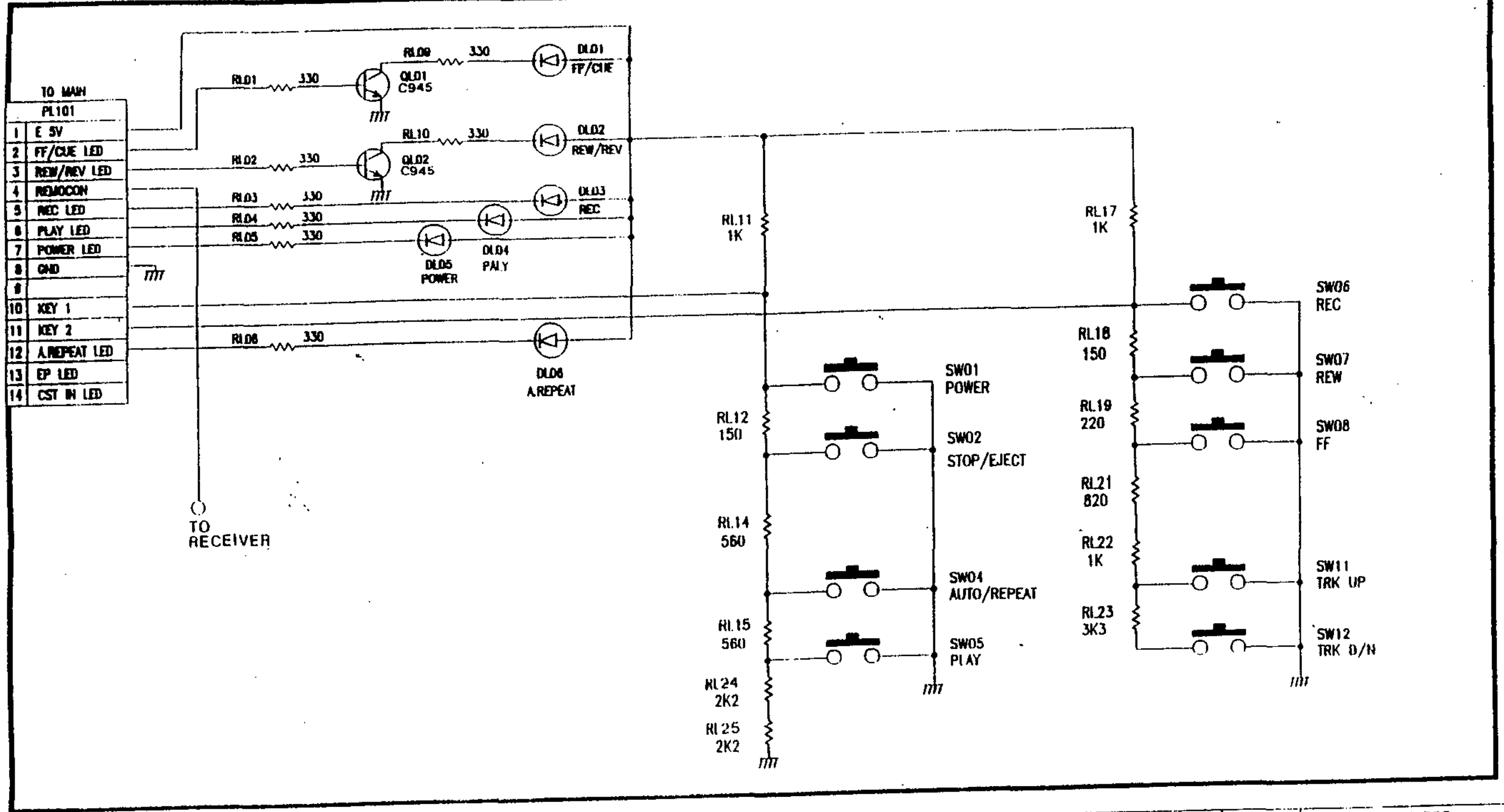
VDR AUDIO SCHEMATIC DIAGRAM



VDR PRE-AMP SCHEMATIC DIAGRAM



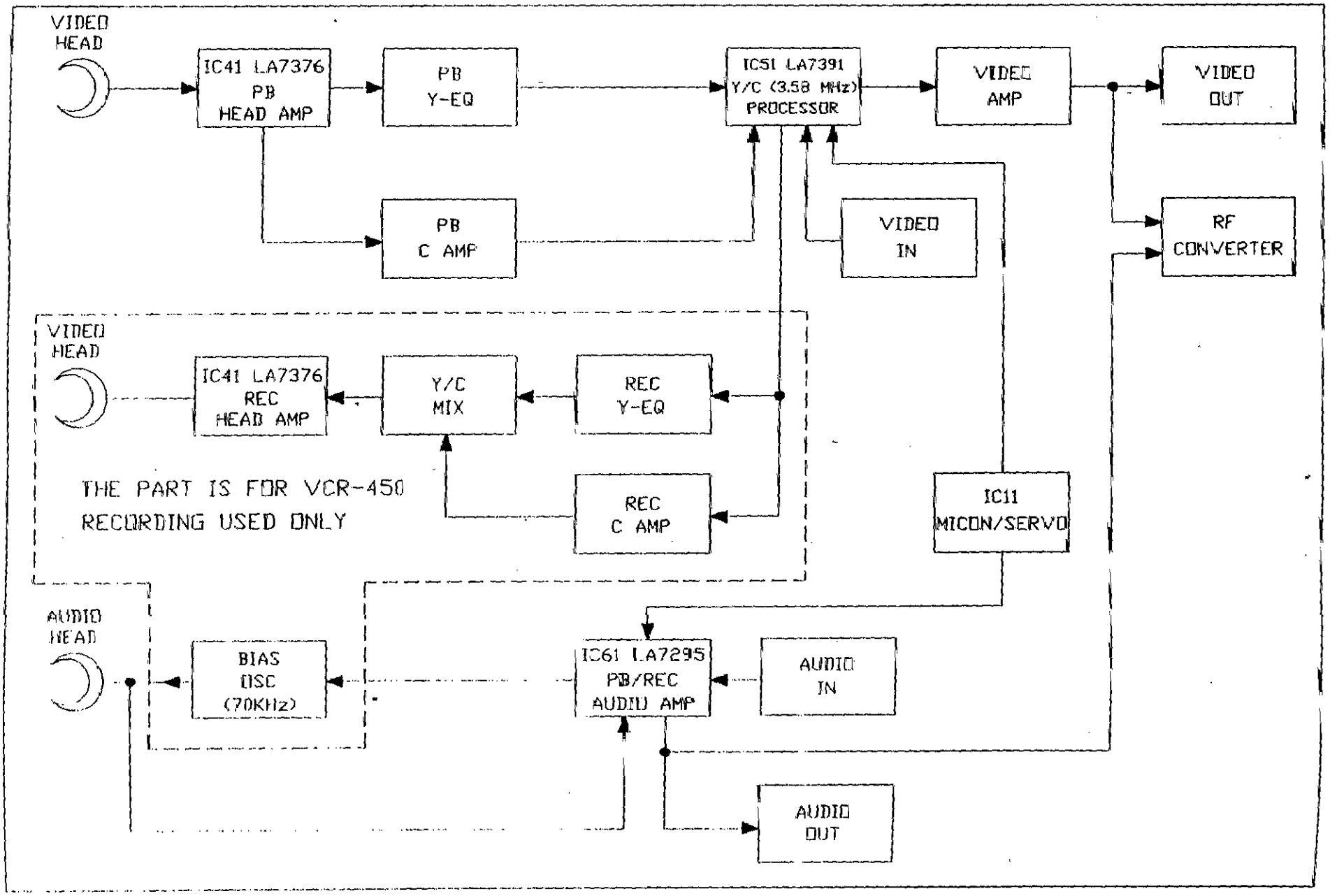
LOGIC SW circuit-diagram



DATE : 1994/9/23			NAME	LOGIC SW PCB FULL SECTION
REV	DRAWING	CHECKED	APPROVED	MODEL	VCR-440B
0				SYSTEM	PAL
ACTION ELECTRONICS CO.,LTD.				DWG.NO	05-H3-1131

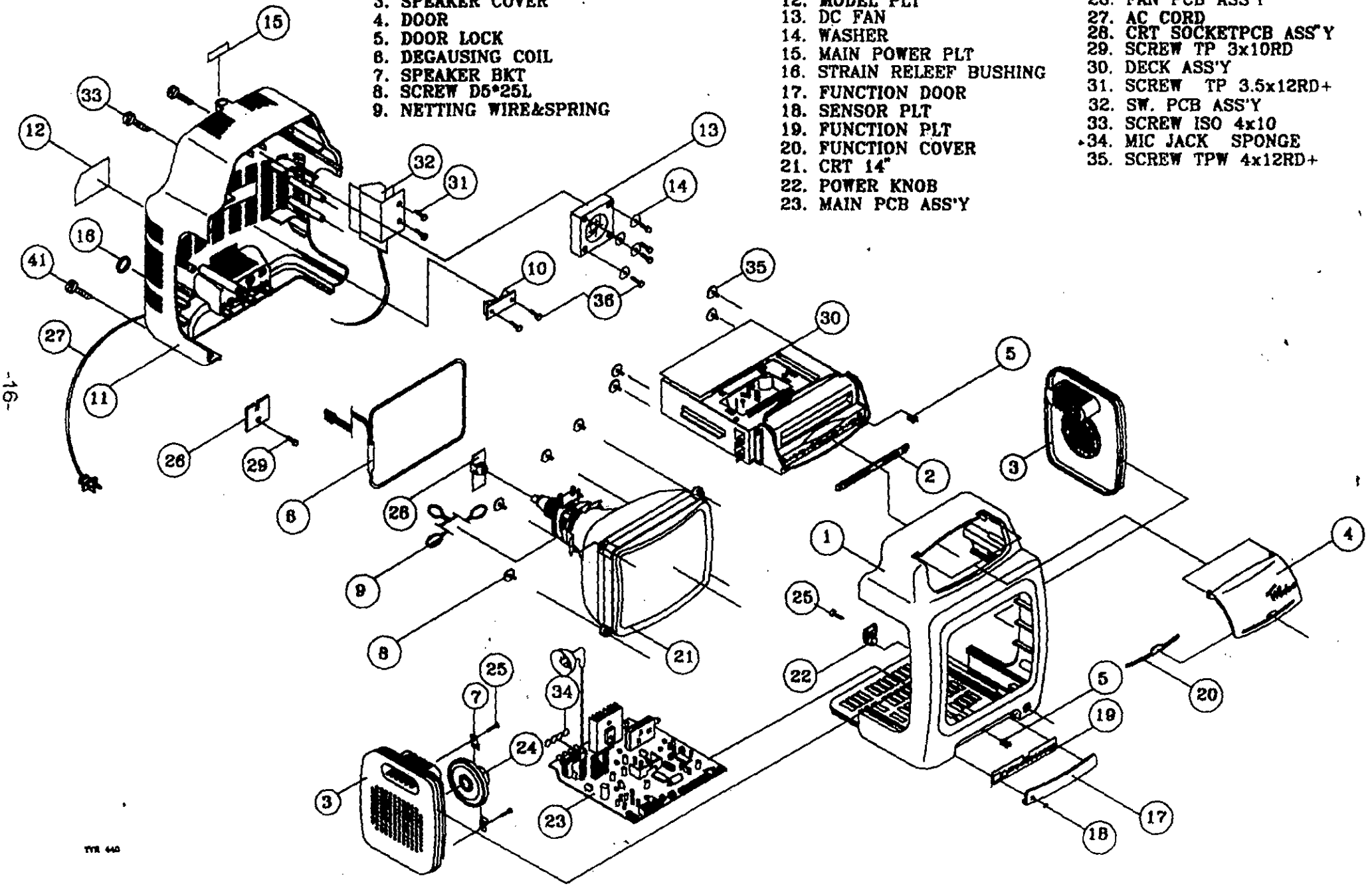
(SH5)

VDR BLOCK DIAGRAM

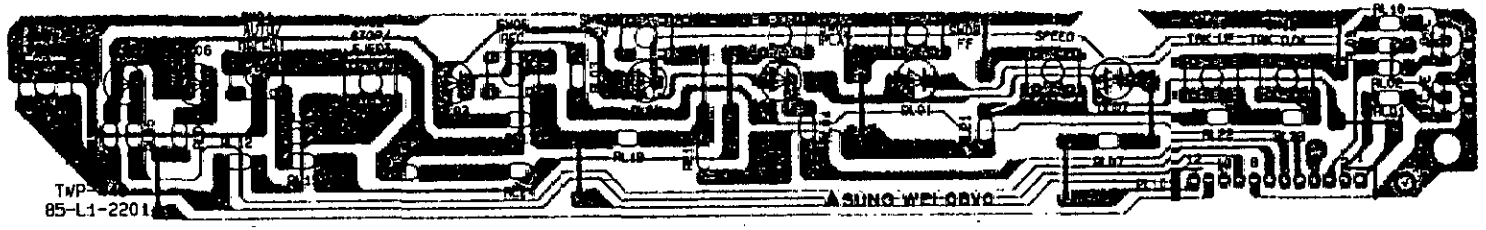


EXPLODED VIEW

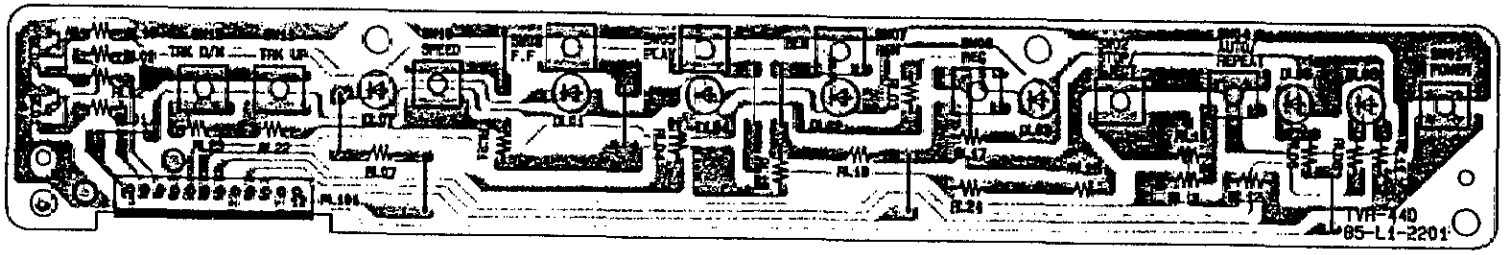
1. F-CAB
2. DECK PLT
3. SPEAKER COVER
4. DOOR
5. DOOR LOCK
6. DEGAUSING COIL
7. SPEAKER BKT
8. SCREW D5*25L
9. NETTING WIRE&SPRING
10. MAIN POWER SWITCH
11. B-CAB
12. MODEL PLT
13. DC FAN
14. WASHER
15. MAIN POWER PLT
16. STRAIN RELEEF BUSHING
17. FUNCTION DOOR
18. SENSOR PLT
19. FUNCTION PLT
20. FUNCTION COVER
21. CRT 14"
22. POWER KNOB
23. MAIN PCB ASS'Y
24. SPK 3.5"
25. SCREW TP 3*8RD+
26. FAN PCB ASS'Y
27. AC CORD
28. CRT SOCKETPCB ASS'Y
29. SCREW TP 3x10RD
30. DECK ASS'Y
31. SCREW TP 3.5x12RD+
32. SW. PCB ASS'Y
33. SCREW ISO 4x10
34. MIC JACK SPONGE
35. SCREW TPW 4x12RD+



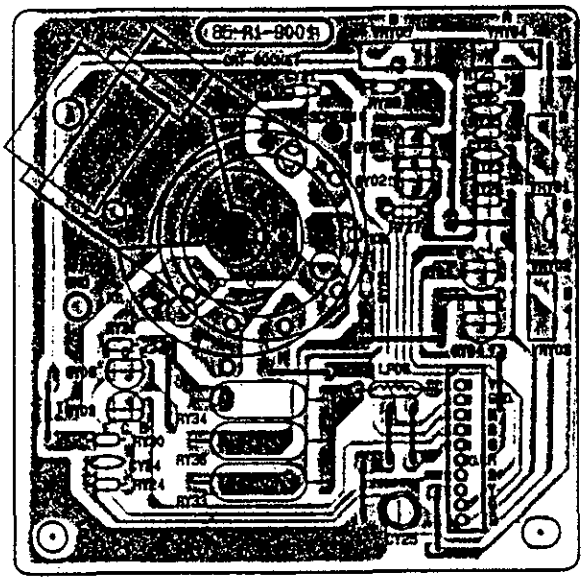
KEY BOARD P.C.B TOP VIEW



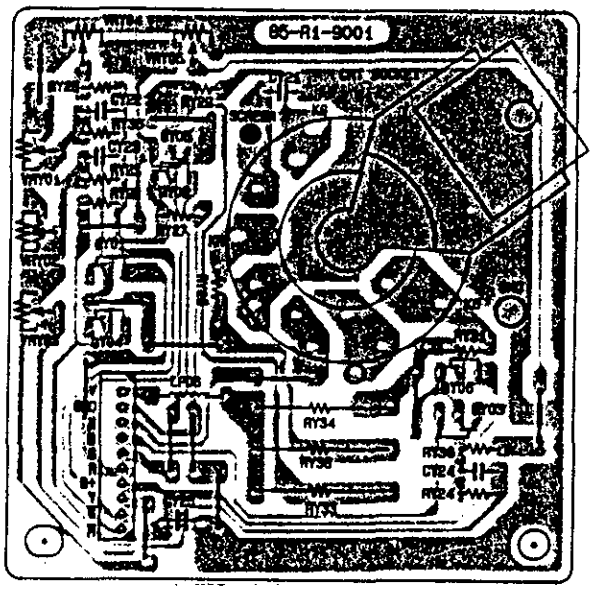
KEY BOARD P.C.B BOTTOM VIEW



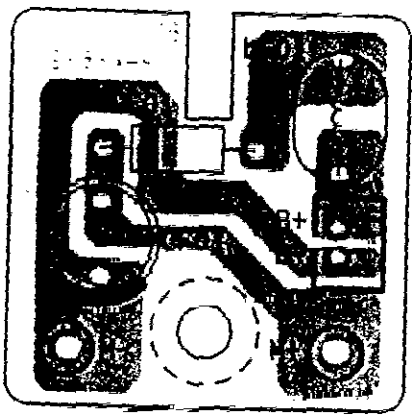
CRT SOCKET P.C.B TOP VIEW



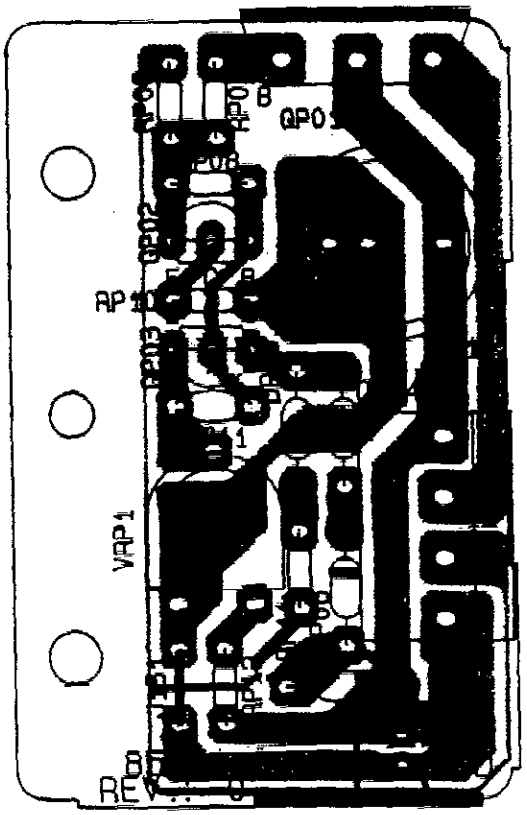
CRT SOCKET P.C.B BOTTOM VIEW



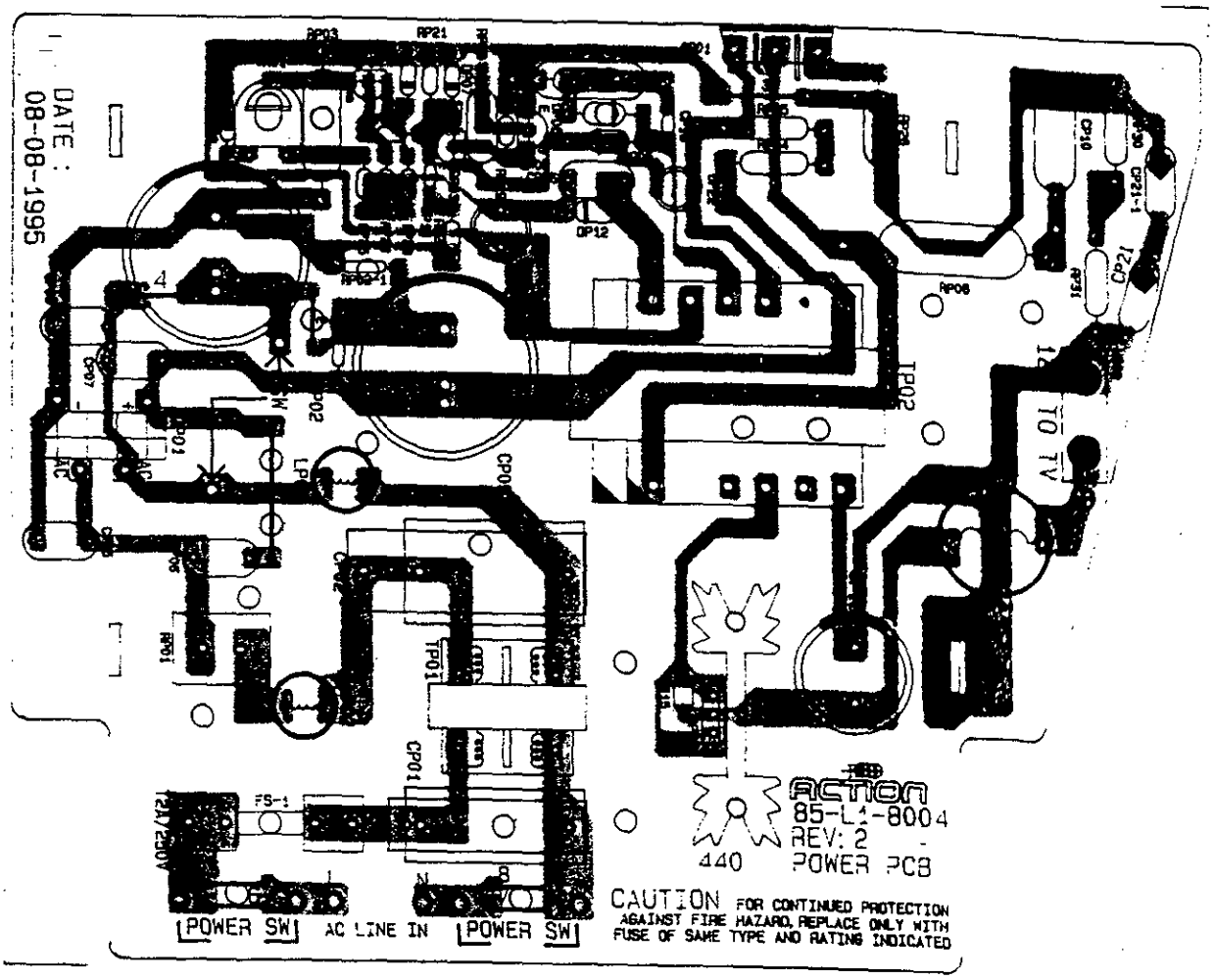
FAN P.C.B TOP VIEW

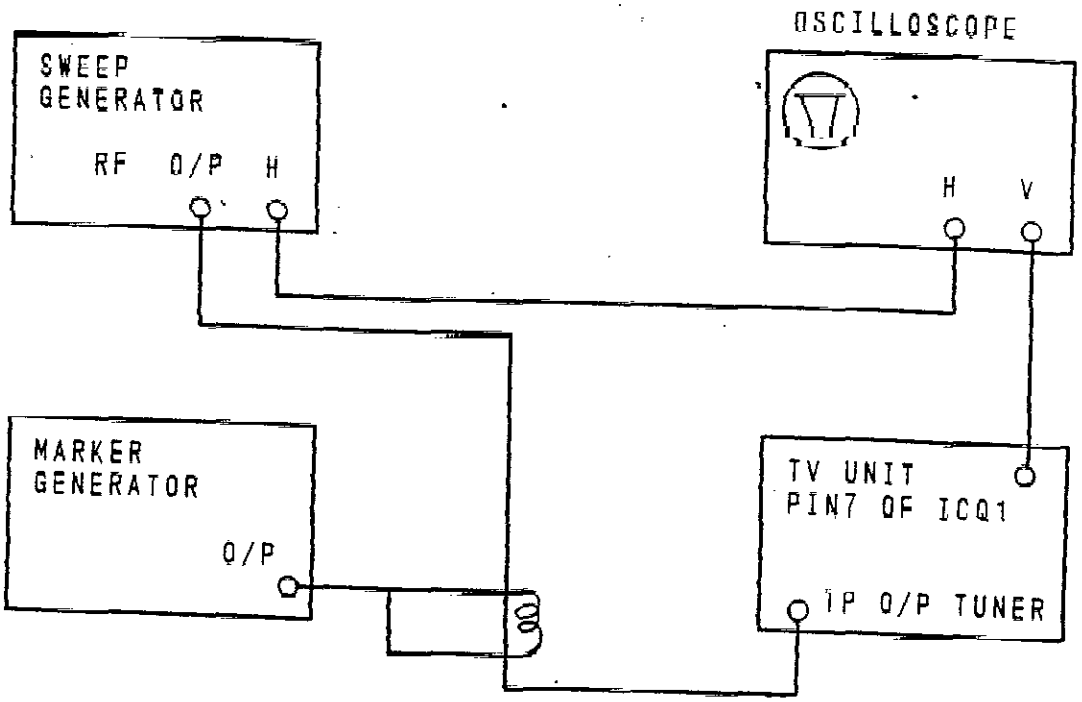


POWER REGULATOR P.C.B TOP VIEW



SW POWER P.C.B TOP VIEW



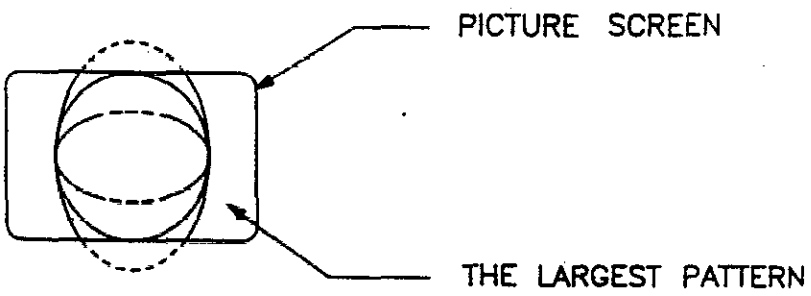


VIDEO IF ALIGNMENT CONNECTING FIGURE

(2) VERTICAL DEFLECTION ALIGNMENT

1. TUNE THE RECEIVER IN A TEST PATTERN.
2. ADJUST V-SIZE CONTROL VRV1 TO MAKE.

THE INSIDE OF THE LARGEST CIRCLE OF TEST PATTERN REACHES NEAR ROUND PATTERN. (SEE THE FIGURE).



ALIGNMENT PROCEDURE

REGULATOR ADJUSTMENT

1.CONNECT TV UNIT TO AC 220V POWER.
SUPPLY & TEST PATTERN GENERATOR.

2.CONNECT A DC DIGITAL VOLTMETER OR OTHER PRECISION ACCURACY VOLTMETER TO THE EMITTER OF THE REQULATOR OUTPUT TRANSISTOR QP01 (OR ANY 12 VOLT POINT OR TP1).

3.VERTICAL HIGHTNESS ALIGNMENT
ADJUST THE VERTICAL HIGHTNESS VRV1 ENABLE THE CIRCLE OF PICTURE APPROACH TO CIRCLE.

4.VERTICAL POSITION ALIGNMENT
ADJUST VERTICAL POSITION VRV2, LET THE SQUARE SIGNAL IN THE CENTER OF THE SCREEN.

5.HORIZONTALL POSITION ALIGNMENT
ADJUST HORIZONTAL POSITION VRH1, LET THE SQUARE SIGNAL IN THE CENTER OF THE SCREEN.

6.RF AGC ALIGNMENT
ADJUST VIF MODULE AGC CONTROL VRI1, AT INPUT SIGNAL INTENSITY 50dB, THE SCREEN COULD LOOKING CLEAR AND 80dB THE SCREEN DON'T INFLECT.

7.WHITE BALANCE ALIGNMENT
ADJUST THE VRY4, VRY5, AT SENTER POSITION, ADJUST SCREEN VR, LET THE SCREEN WILL BE LITTLE BRIGHTNESS. ADJUST VRY4 LET THE SCREEN TO BE YELLOW, AND THEN ADJUST VRY5 LET THE SCREEN APPROACH TO WHITE.

8.FOCUS ADJUSTMENT
ADJUST FOCUS VR, LET THE STRIP ON THE SCREEN TO BE CLEAR.

GENERAL ALIGNMENT INSTRUCTIONS

1. VIDEO IF ALIGNMENT

TEST EQUIPMENT CONNECTION (SEE FIGURE)

OSCILLOSCOPE: CONNECT TO ICQ1 PIN7.

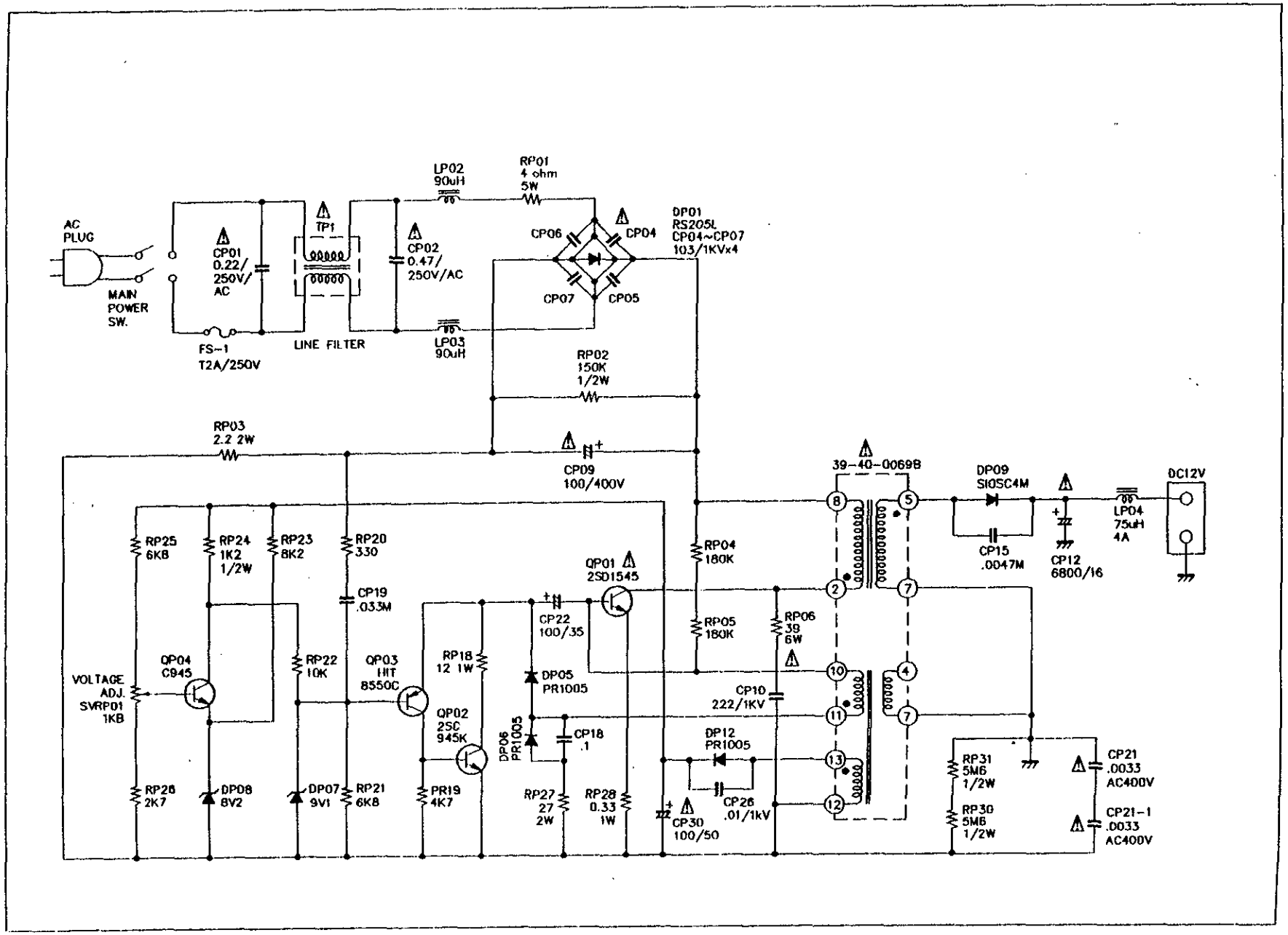
SWEEP GENERATOR: CONNECT THROUGH A MATCHING PAD TO TEST POINT (TP3). OF THE TUNER.

MARKER GENERATOR: COUPLE LOOSELY TO THE OUTPUT CABLE OF SWEEP GENERATOR.

DC SUPPLY: ADD AC 220V POWER SUPPLY.

ADJUST SWEEP GENERATOR TO LOWEST SIGNAL LEVEL CONSISTENT WITH USABLE			
STEP	SWEEP FREQUENCY	MARKER FREQUENCY	REMARK
ADJUST VIF DETECTOR LI01 FOR MARKER POINT MAXIMUM.	30-50 MHZ FOR NTSC 65MHz FOR JAPAN). 25-45 MHZ FOR CCIR.	SYSTEM B,G,H, 36.7MHZ SYSTEM I 37.3 MHZ SYSTEM M,N 44MHZ (58.75MHZ FOR JAPAN) (34.7MHZ FOR AUSTRARIA SYSTEM)	PARENTHESIS FOR EXCEPTION.

SW POWER SCHEMATIC DIAGRAM



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VIDEO CASSETTE PLAYER ELECTRICAL SPECIFICATION

DESCRIPTION		UNIT	LIMIT		
PICTURE PART					
VIDEO RESOLUTION	V	LINE	250		
	H	LINE	200		
VIDEO OUTPUT IMPEADANCE		OHM	75 ± 15 %		
VIDEO OUTPUT LEVEL		Vp-p	1.0 ± 0.2		
AUDIO OUTPUT LEVEL		Vp-p	1.0 ± 0.2		
S/N RATIO OF VIDEO OUTPUT					
(a) LUMINANCE SIGNAL	SP	dB	40		
(b) CHROMINANCE SIGNAL AM	SP	dB	30		
(c) CHROMINANCE SIGNAL PM	SP	dB	30		
AUDIO PART					
HUM MIN		mV	7 MAX		
FREQUENCY RESPONES (1KHZ=0dB INPUT LEVEL -10dB)					
SP MODE 150HZ -> 8 KHZ		dB	-6± 6		
S/N RATIO (1KHZ-10dB)	SP	dB	30		
DISTORATION(1KHZ INPUT LEVEL -10dB)		%	5 MAX		
WOW/FLUTTER 3KHZ CCIR WTD		%	≦ 0.3/ ≦ 0.5		
JITTER CCIR NORMAL		%	0.4 MAX		
FAST FORWARD TIME (T-120 TAPE)		MINUTE	6 MAX		
REWIND TIME (T-120 TAPE)		MINUTE	6 MAX		
SKEW (SERVO CONTROL)					
DRUM SERVO PULL IN TIME STOP, REW, FF --> PB		SEC	7 MAX		
CAPSTAN SERVO PULL IN TIME STOP ,REW, FF --> PB		SEC	7 MAX		

VIDEO CASSETTE RECORDED /PLAYER ELECTRICAL SPECIFICATION

DESCRIPTION	UNIT	LIMIT			
PICTURE PART					
VIDEO OUTPUT LEVEL	Vp-p	1.0 ± 0.2			COLOR BAR WITH 100% WHITE
AUDIO OUTPUT LEVEL	dBm	-5 ± 3			COLOR BAR 1KHz 0 dB HPF 100 HZ.LPF 500KHZ
(a) LUMINANCE SIGNAL	dB	40			100% WHITE HPF 10KHZ.LPF 5MHZ
(b) CHROMINANCE SIGNAL AM	dB	35			GREEN PICTURE HPF 100 HZ.LPF 500KHZ
(c) CHROMINANCE SIGNAL PM	dB	32			
HUM	mV	7 MAX			HPF 100 HZ.LPF 500KHZ
SP MODE 150HZ -> 8 KHZ	dB	-6± 6			IN LEVEL -20dB 400HZ:0dB
S/N RATIO 1KHZ-10dB	dB	30			IN LEVEL -10dB 1KHZ
DISTORATION	%	5 MAX			IN LEVEL -10dB 1KHZ
WOW/FLUTTER 3KHZ CCIR WTD	%	3000± 90			3KHZ OSC INPUT

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DESCRIPTION	UNIT	LIMIT	NOMINAL	NO.1	NO.2	NO.3	NO.4	NO.5	NO.6
SOUND FM 25KHZ MOD. (PAL B/G SECAM B/G)									
MAX. OUTPUT	mW	700	1000						
OUTPUT @10% THD.	mW	500	700						
THD. @ REF O/P	%	5	3						
S /N	dB	30	35						
AM SUPP.	dB	25	30						
MIN. HUM	mV	30	15						
RESPONSE FH 6 KHZ	dB	-3± 6	-3± 3						
FL 125 HZ	dB	-3± 6	-3± 3						
SIF. FREQ. ERROR	KHZ	± 100	0						
LIMIT SENS.	dB	80	70						
PICTURE									
HOR . FREQ .	HZ	± 500	15625						
HOR. PULL-IN +	HZ	300	600						
−	HZ	300	600						
LINEARITY VERT.	%	15	10						
HOR.	%	25	15						
PINCUSHION DIST.	%	2	1						
BARREL DIST.	%	2	1						
KEYSTANE DIST.	%	2	1						
V /H OVERSCANNING	%	12	8						
LUMINANCE MAX	lux	200	250						
MIN	lux	50	30						
VA TEST									
H. V. MAX	KV	20± 1	20.0						
H. V. MIN	KV	19± 1	19.0						
REG. VOLTAGE	V	10.6± 0.2	10.6						
DELAY AGC. VOLTAGE	V	4.5± 0.5	4.5						
DC CONSUMPTION	W	70	60						
AC CONSUMPTION	W	75	68						

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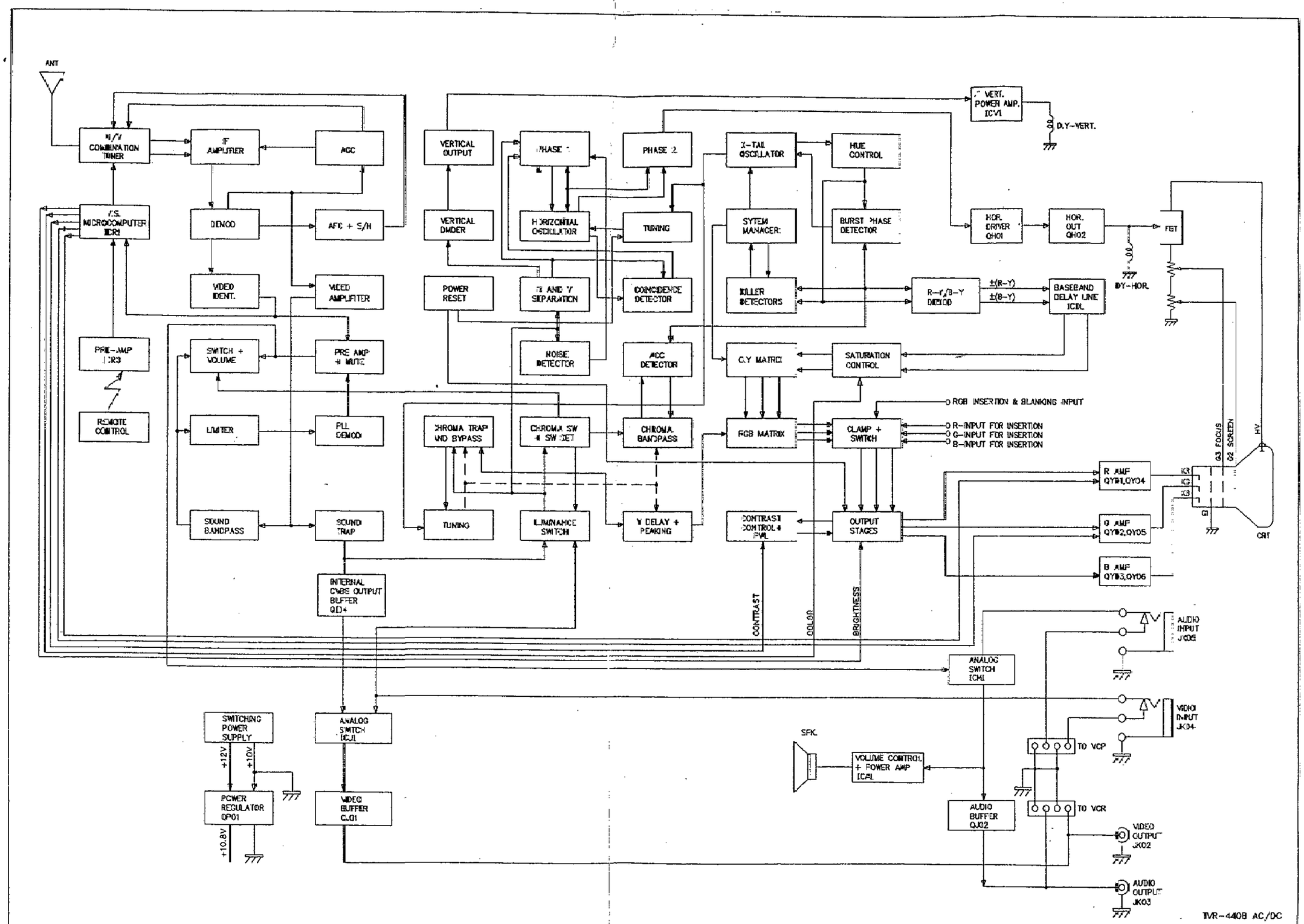
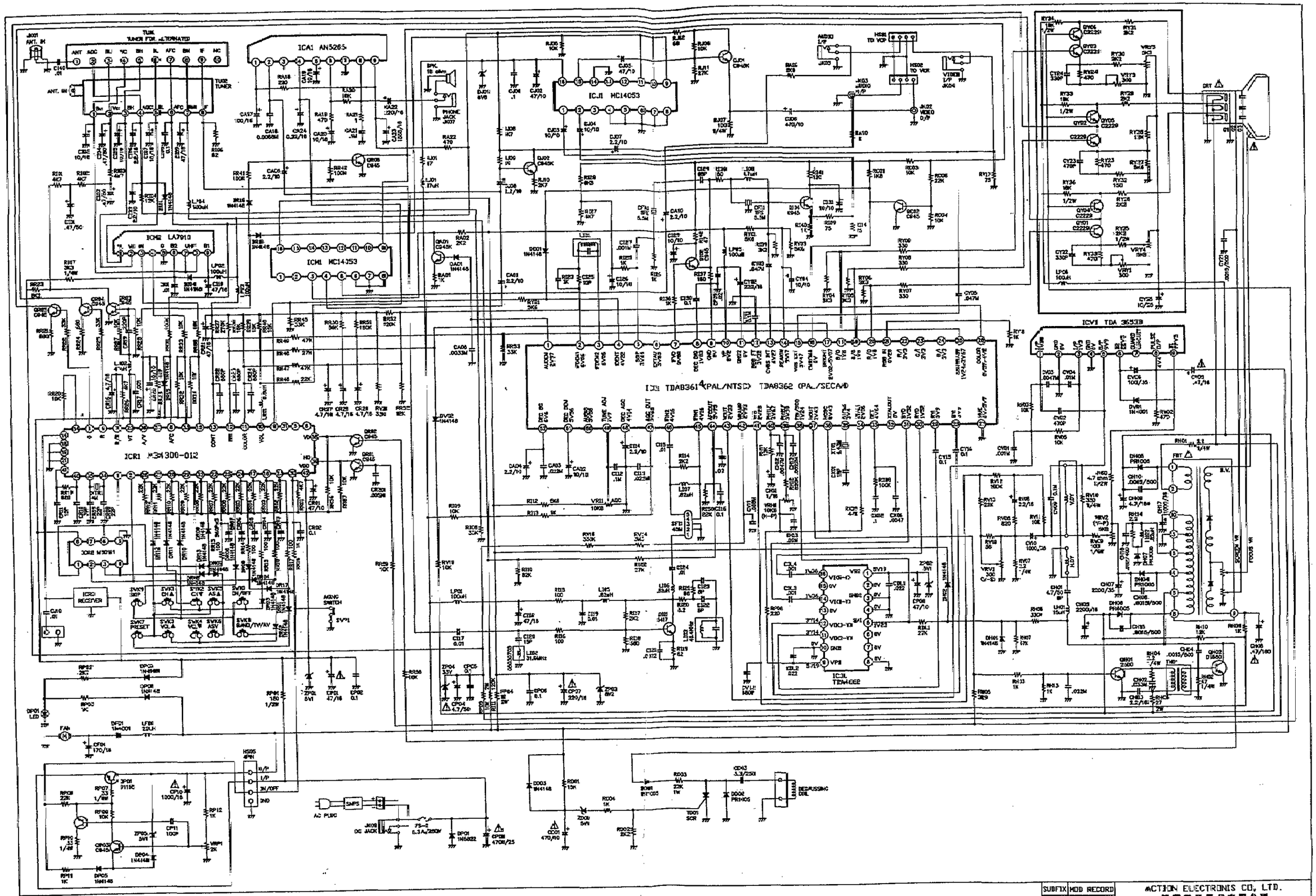
ELECTRICAL SPECIFICATION

MODEL NO: TVR-440B AC/DC OUTPUT: 50mW
SUPPLY VOLTAGE : AC 230 LOAD : 16 ohms
GERERAL INFORMATION : TV 75 OHMS INPUT ANT. SIDE VOLTAGE 0 dB =1uV

DESCRIPTION		UNIT	LIMIT	NOMINAL	NO.1	NO.2	NO.3	NO.4	NO.5	NO.6
VL BAND (PAL.B/G SECAM B/G)										
TUNING RANGE	HIGH	MHZ	62.25	65.25						
	LOW	MHZ	48.25	45.25						
MAX/USABLE SENS.	CH - 2	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 3	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 4	dB	32/46	26 /40	/	/	/	/	/	/
IF REJ.	CH - 3	dB	40	50						
IMAGE REJ.	CH - 3	dB	40	50						
VHF BAND										
TUNING RANGE	HIGH	MHZ	224.25	228.00						
	LOW	MHZ	175.25	140.00						
MAX/USABLE SENS.	CH - 5	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 9	dB	32/46	26 /40	/	/	/	/	/	/
	CH - 12	dB	32/46	26 /40	/	/	/	/	/	/
IF REJ.	CH - 9	dB	50	60						
IMAGE REJ.	CH - 9	dB	40	50						
UHF BAND										
TUNING RANGE	HIGH	MHZ	855.25	860.00						
	LOW	MHZ	471.25	435.00						
MAX/USABLE SENS.	CH - 21	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 30	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 40	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 50	dB	36/52	32 /46	/	/	/	/	/	/
	CH - 60	dB	36/52	32 /46	/	/	/	/	/	/
IF REJ.	CH - 40	dB	40	50						
IMAGE REJ.	CH - 40	dB	30	40						
ADJ. PIX. ATT.		dB	20	30						
ADJ. SND. ATT.		dB	20	30						
SELF. SNC. ATT.		dB	20=3							
CONTRAST RANGE		dB	1	3						

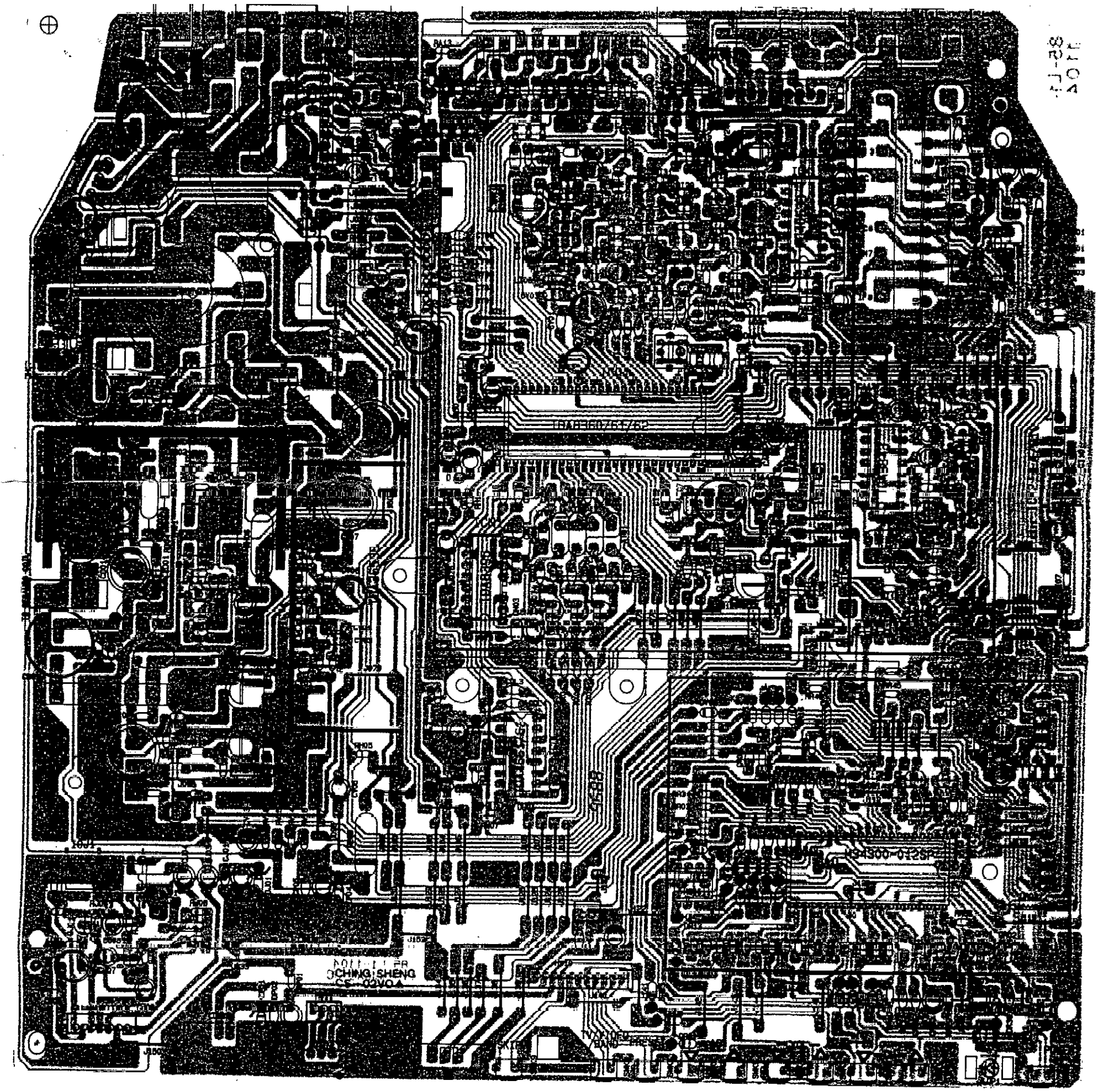
TV BLOCK DIAGRAM



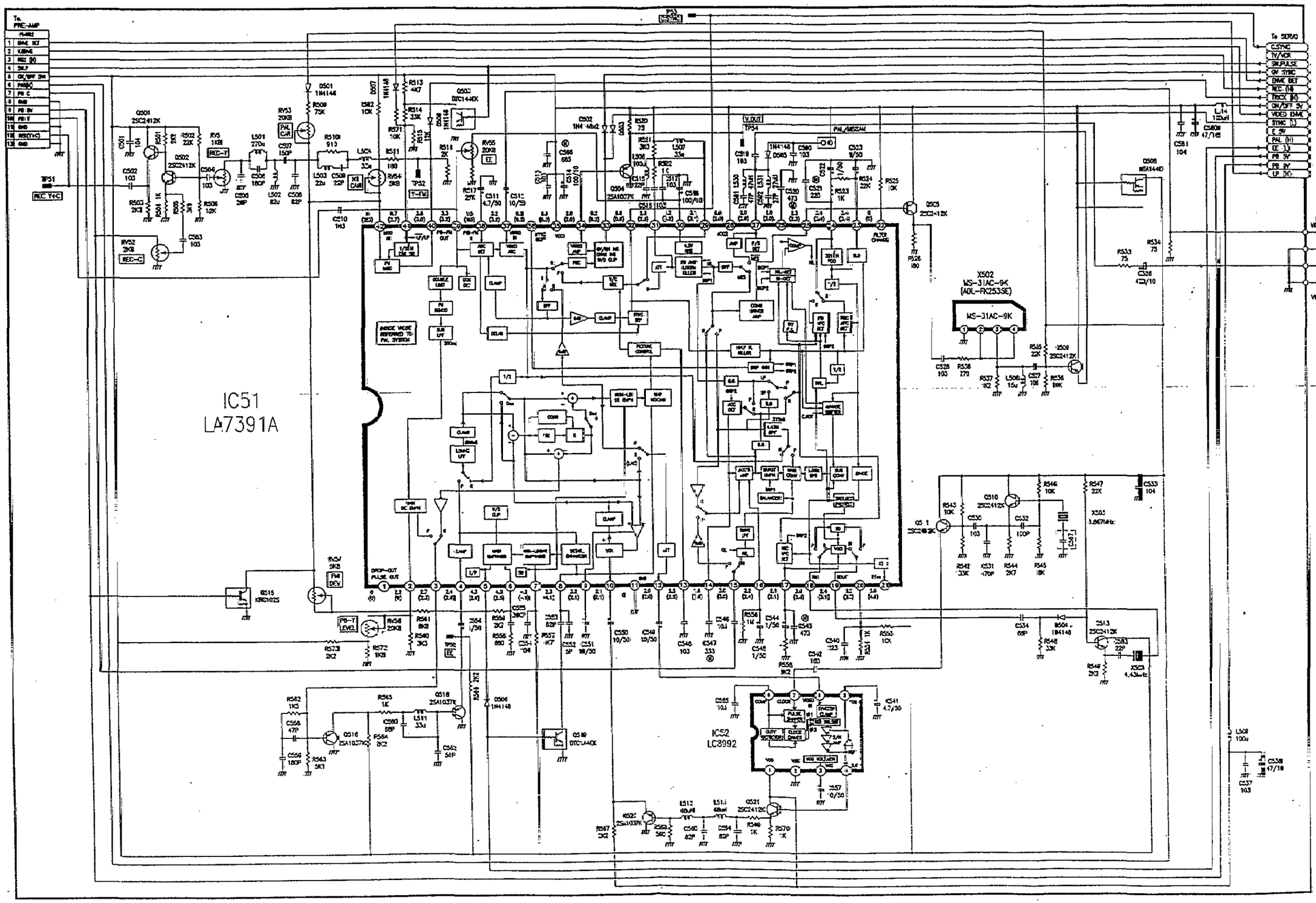


SUBFIX	MOD RECORD	ACTION ELECTRONICS CO., LTD. 德榮電子股份有限公司				
AA	1995/05/03	TITLE: TVR-4408/I AC/DC SCHEMATIC DIAGRAM(FTZ)				
AB	1995/05/08	DRAWER	DESIGN	APPROVED	DRAWING NO	REV
AC	1995/07/21	謝文清 07/21/95	徐文陽		05-L1-1307	2
AD						SH2
AE						

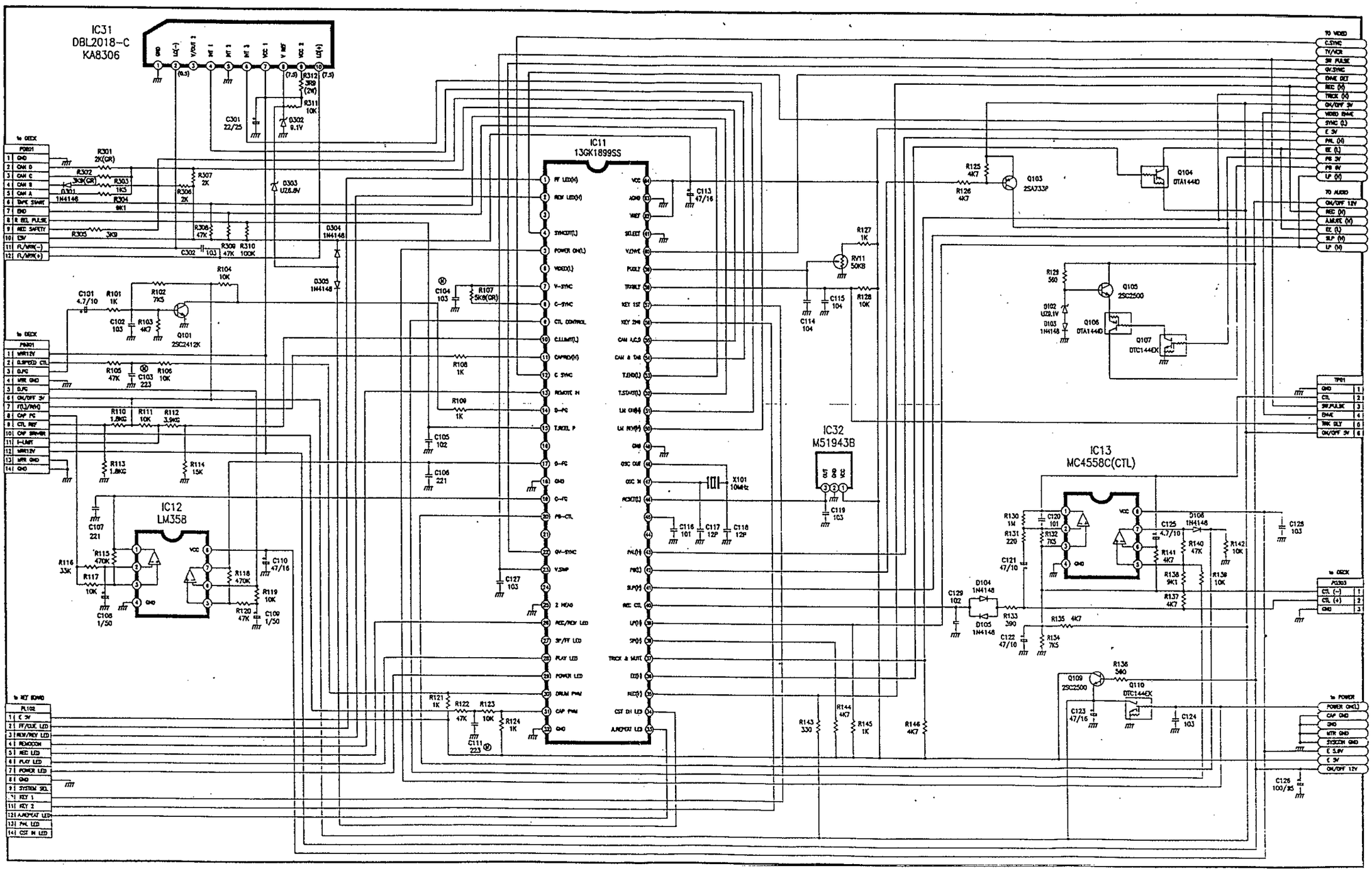
TV P.C.B TOP VIEW

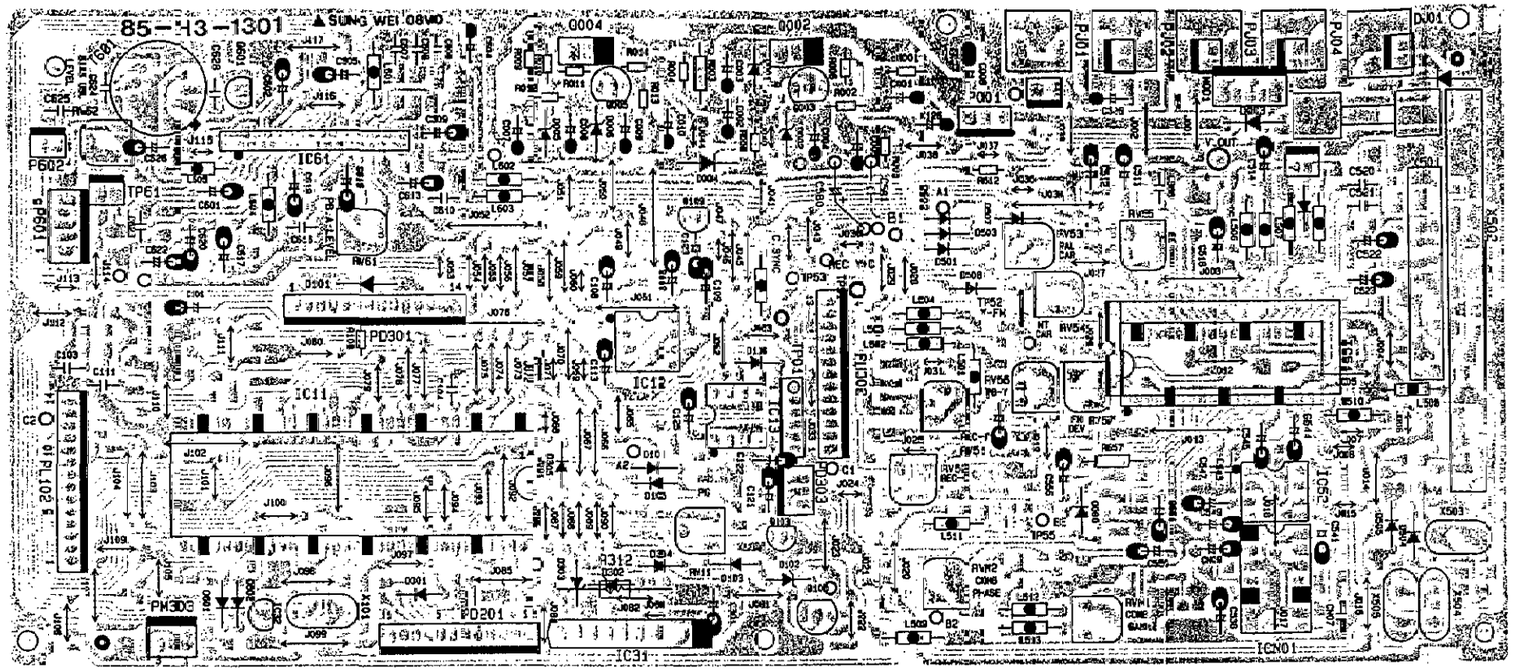


VDR VIDEO SCHEMATIC DIAGRAM



VDR SERVO/SYSCON SCHEMATIC DIAGRAM

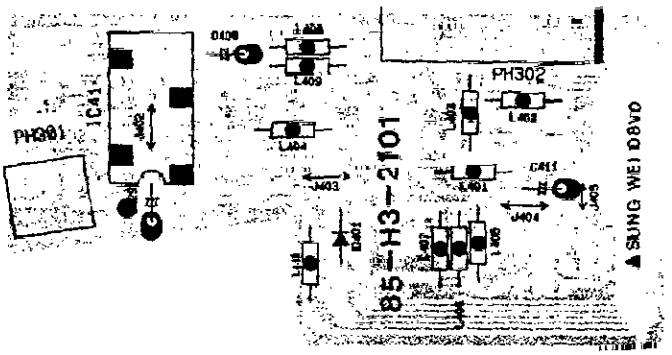




VDR MAIN P.C.B TOP VIEW

VDR MAIN P.C.B BOTTOM VIEW

VDR HEAD AMP P.C.B TOP VIEW



VDR HEAD AMP P.C.B BOTTOM VIEW

ELECTRICAL ADJUSTMENT

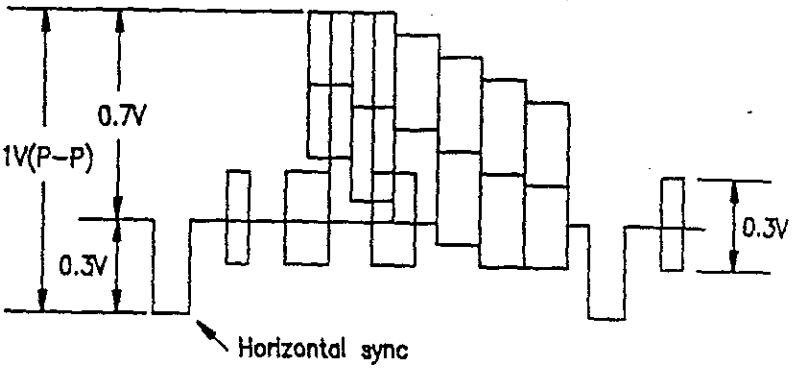
1-1. ALIGNMENT AND ELECTRICAL ADJUSTMENT

For these adjustment, use the equipment mentioned below and proceed by using the alignment tape and video signal.

Instrument and Tools Required.

1. Color TV receiver.
2. Oscilloscope having 10MHz or more bandwiddh.
3. Color-bar generator.
4. Frequency counter.
5. VTVM
6. VOM
7. Audio oscillator.
8. Audio attenuator.

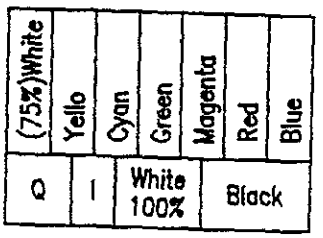
The suitable waveform of the color-bar signal generator is shown below.



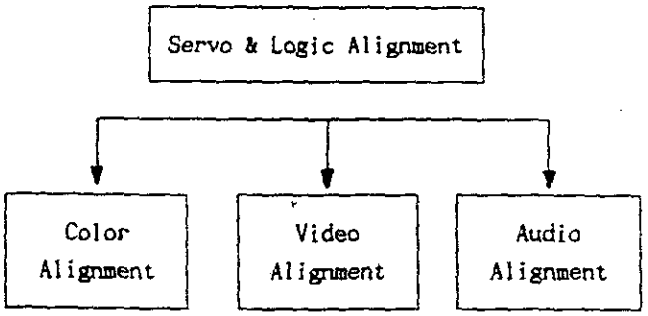
Color bar signal waveform

Signal Level and Input and Output Impedance Requirement.

1. Video input: Negative sync., 1Vp-p standard composite video signal, 75Ω.
2. Video output: Same as above.
3. Audio input: Line - 10dBs, 47KΩ.
4. Audio output: -50dBs, 10KΩ or less.



Color bar pattern



Adjustment Sequence

The VCR should be adjusted in the sequence shown below.

1-2. SERVO-LOGIC CIRCUIT ADJUSTMENT METHOD

1. VIDEO HEAD SWITCHING POSITION

Adj. Location	Checking Point	Measuring Equipment	Mode	Test Tape
RV11	PT01 3PIN TP54	Oscilloscope	Play	DP-1

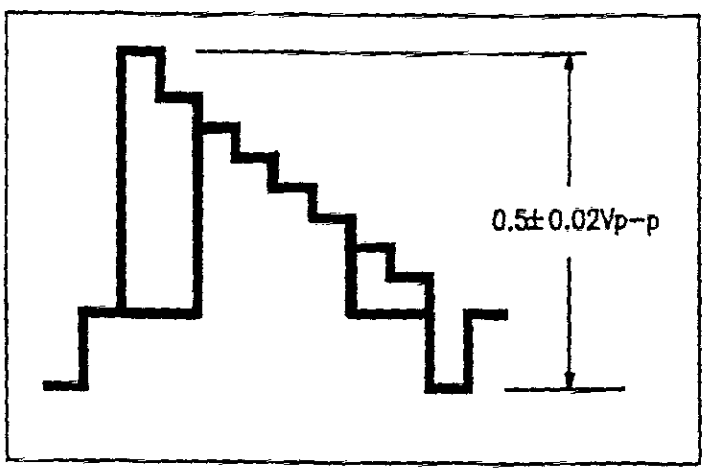
1) Play back the test tape.
2) Set the oscilloscope in the CHOP mode connect the CH1 to SW pulse PT01 2 PIN the CH2 to TP54 (v.out) with CH1 triggering.
3) Adjust RV11 for the positive trigger until 6.5H±0.5H cycles before the vertical SYNC pulse.

1-3. VIDEO CIRCUIT ADJUSTMENT METHOD

1. E E VIDEO LEVEL

Adj. Location	Checking Point	Measuring Equipment	Mode	Test Tape
RV55	TP55	Oscilloscope	EE	—

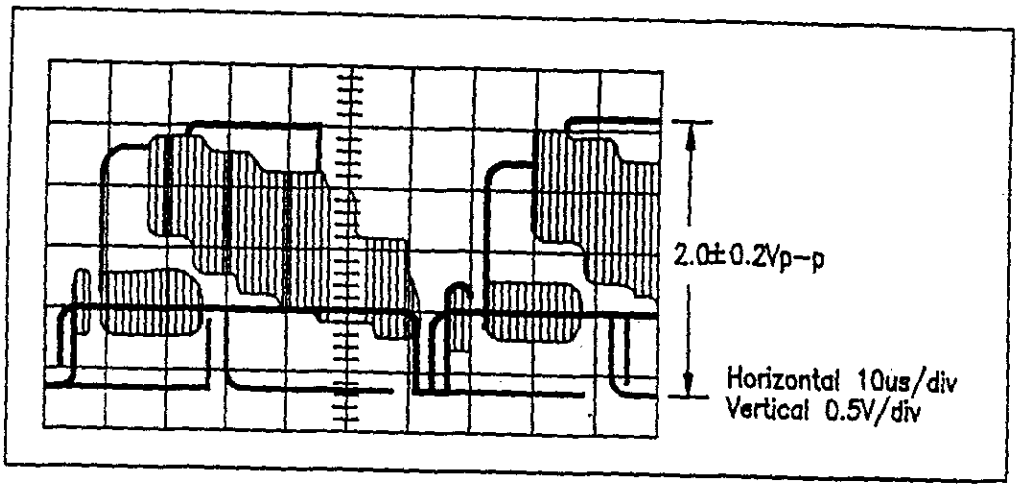
1) Feed the color bar signal to the line input terminal. And set for the stop (EE) mode.
2) Connect the oscilloscope to TP55 and trigger the scope with a composite SYNC signal at TP53. (COMP. SYNC.)
3) Adjust the oscilloscope so that it can display a waveform of approx. 2H.
4) Adjust RV55 to obtain 0.5±0.02Vp-p between SYNC TIP and 100% white level.



2. PLAYBACK Y-SINGAL OUTPUT LEVEL

Adj.Location	Checking Point	Measuring Equipment	Mode	Test Tape
RV56	TP54	Oscilloscope	PB	DP-1

1) Playback the test tape (Color Bar Singal).
2) Connect the oscilloscope to TP54 and trigger the scope will a composite SYNC signal at TP53. Adjust the scope so that it can display a waveform of approx. 2H.
3) Adjust RV56 to optain 2.0±0.2 Vp-p between the SYNC TIP and 100% white level.



3. SYNC TIP FREQUENCY

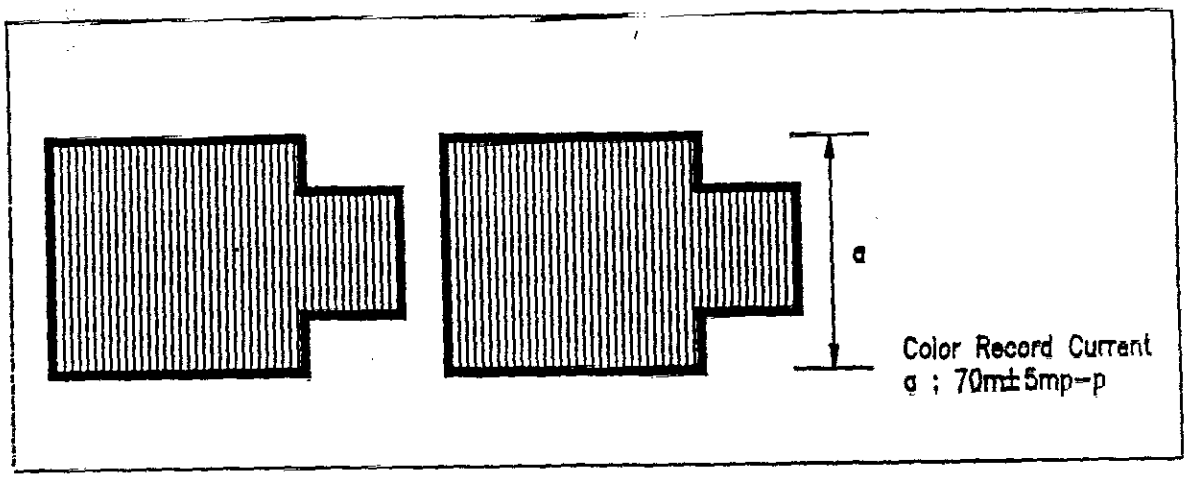
Adj.Location	Checking Point	Measuring Equipment	Mode	Test Tape
RV54, RV53	TP52	Freq. Counter	REC.	—

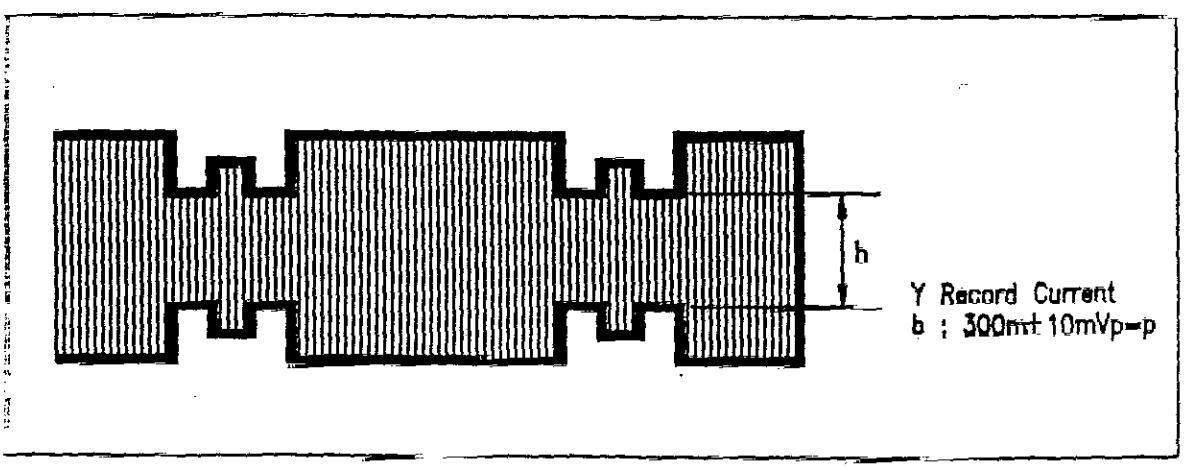
1) Set the unit to NTSC mode without video signal. (Jack of video line input is shorted with ground).
2) Connect the frequency counter to TP52.
3) Adjust. RV54 until the SYNC TIP frequency becomes 3.4MHz±0.1MHz.
4) Set the unit to N-PAL mode.
5) Adjust RV53 until the SYNC TIP frequency becomes 3.8MH±Z0.1MHZ.

4. LUMINANCE AND COLOR RECORD CURRENT

Adj. Location	Checking Point	Measuring Equipment	Mode	Test Tape
RV51, RV52	TP51	Oscilloscope	REC.	Blank Tape

1) Input Color bar signal in video line in.
2) Make every adjustment in REC mode.
3) Connect CH.1 of oscilloscope to TP51 and TP GND and CH.2 TP53 (C.SYNC), and then trigger the scope with an external signal.
4) Adjust RV52 Until the color record current level (RED REFERENCE) becomes 70±5mVp-p.
5) Connect CH.1 of oscilloscope to TP51 and TP GND and CH.2 TP53 (C.SYNC), and then trigger the scope with an external signal.
6) Adjust RV51 Until the Sync. Luminance level becomes 300±10mVp-p.

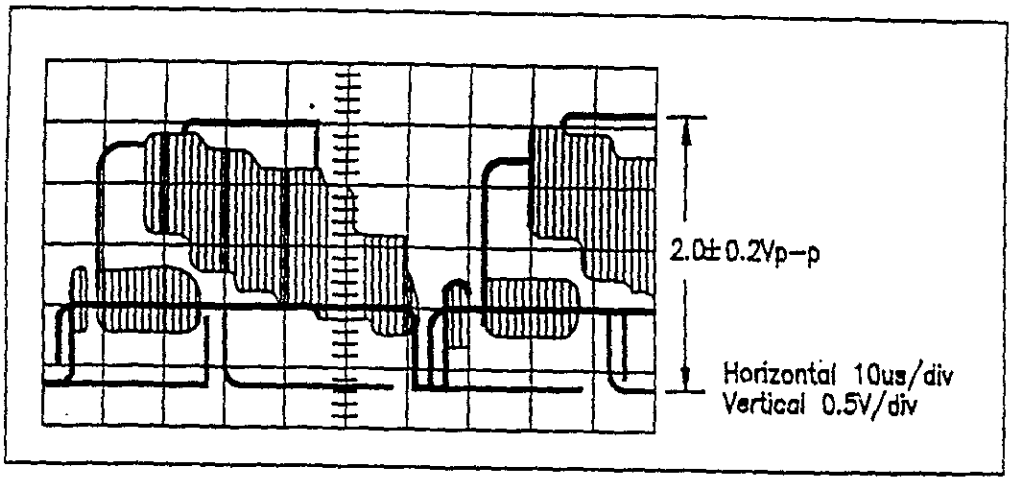




5. FM DEVIATION

Adj. Location	Checking Point	Measuring Equipment	Mode	Test Tape
RV57	TP54	Oscilloscope	PB & REC	Blank Tape

1) Confirm that the adjustment for the playback Y-Singal output level fas been made corretly.
2) Feed the color bar signal to the line terminal, and set the VCR to the record mode.
3) Connect the oscilloscope to TP54 and trigger the scope with a composite sync signal (TP51).
4) Record the color bar signal for a few minute and playback it. Then confirm that the playback Y-signal output level is 2.0±0.2Vp-p.
5) If the playback Y signal output level is not 2.0±0.2 Vp-p, the adjust as follows.
   5-1) Set the VCR in the record mode.
   5-2) Turn the variable RV57 a little.
   5-3) Record the color bar signal for a few minute and playback it.
   5-4) Confirm the playback Y signal output is 2.0±0.2 Vp-p.
   5-5) Repeat from step 5-1) until the playback Y-signal oytput level become 2.0±0.2 Vp-p between the Sync. TIP and 100% white level.



1-4. AUDIO CIRCUIT ADJUSTMENT METHOD

1. PLAYBACK OUTPUT LEVEL

Adj.Location	Measuring Point	Measuring Equipment	Condition of Adj.	Test Tape
RV61	Audio Line Out	Audio Level Meter	PLAY Mode	DP -1

1) Connect the audio level meter to the audio line output jack.
2) Play back the test tape.
3) Adjust RV61 until the audio level meter reads -6.0±1.5dBm play back output.

2. PLAYBACK OUTPUT FREQUENCY CHARACTERISTIC

Adj.Location	Measuring Point	Measuring Equipment	Condition of Adj.	Test Tape
Checking	Audio Line Out	Audio Level Meter	PLAY Mode	1KHz, 0dBm 6KHz, 0dBm

1) Playback the Test tape, and confirm that the playback output level at 6KHz is within 0±3dB as referenced to the 1KHz Playback output level.

3. BIAS CURRENT ADJUSTMENT AND OSCILLATION FREQUENCY CHECKING

Adj.Location	Measuring Point	Measuring Equipment	Condition of Adj.	Test Tape
RV62	TP61 1.2pin	Frequency Counter	REC. Mode	Blank Tape

1) Supply the signal in the OPEN mode.
2) connect the positive lead of the VTVM to TP61 1pin and negative lead to TP61 2pin.
3) Set the VCR in recording mode.
4) Confirm the frequency counter display is 70KHz±10% and adjust RV62 until VTVM reads 2.3 mVrms.

4. RECORD-PLAYBACK FREQUENCY RESPONSE

Adj.Location	Measuring Point	Measuring Equipment	Condition of Adj.	Test Tape
Checking	Audio Line Out	Audio Level Meter Audio Signal Generator	REC. Play	Blank Tape

1) Connect the audio signal generator to the audio line input jack, and the audio level meter to the audio line output jack.
2) Record reference audio signal to the 400Hz and 8KHz (SP) audio signal at-20 dBs.
3) Check to insure that 8KHz and playback output level is within -1±3 dB as referenced to the 400 Hz playback output level. (SP)
4) If the difference between 8KHz and 400Hz playback output level is more than +1 dB, increase the bias current more than 2.3mVms, and if the difference is less than -3dB, reduce the bias current less than 2.3mVms.

5. RECORD-PLAYBACK OUTPUT LEVEL

Adj.Location	Measuring Point	Measuring Equipment	Condition of Adj.	Test Tape
Checking	Audio Line Out	Audio Level Meter Audio Signal Generator	REC. Play	Blank Tape

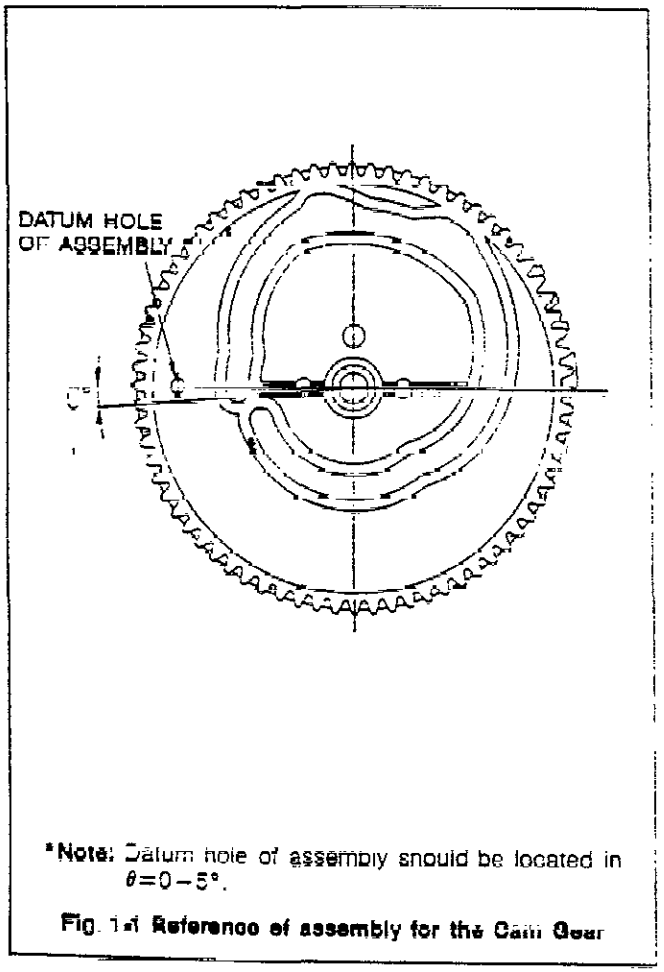
1) Connect the audio signal generator to the audio line input jack.
2) Record and playback the input of the audio reference signal 1KHz, -10dBm.
3) Connect that play output level is -5±3dBm as referenced to the playback output level.

1. MECHANICAL ADJUSTMENT

1-1. CHECK FOR THE MECHANICAL POSITION

Check for the following matters before disassembly, replacement and reassembly.

1) Make sure of the assembly base of the Deck Mechanism in the EJECT MODE.
2) Make sure of the assembly position among the Cam Gear and several parts before assembling the L/C Bracket Total Ass'y (refer to Fig. 1-1,2,3,4).
3) Make sure of the assembly position between the Loading Rack and the R & L-Loading Ass'y (refer to Fig. 1-5).
4) Make sure of the position of the Cam Switch when assembling the L/C BRKT Total Ass'y (refer to Fig. 1-6).
5) Make sure of the assembly state of the Front Loading Ass'y (refer to Fig. 1-7).
6) Make sure of the other's assembly state (refer to Fig. 1-8).



*Note: Datum hole of assembly should be located in $\theta = 0 - 5°$.

Fig. 1-1 Reference of assembly for the Cam Gear

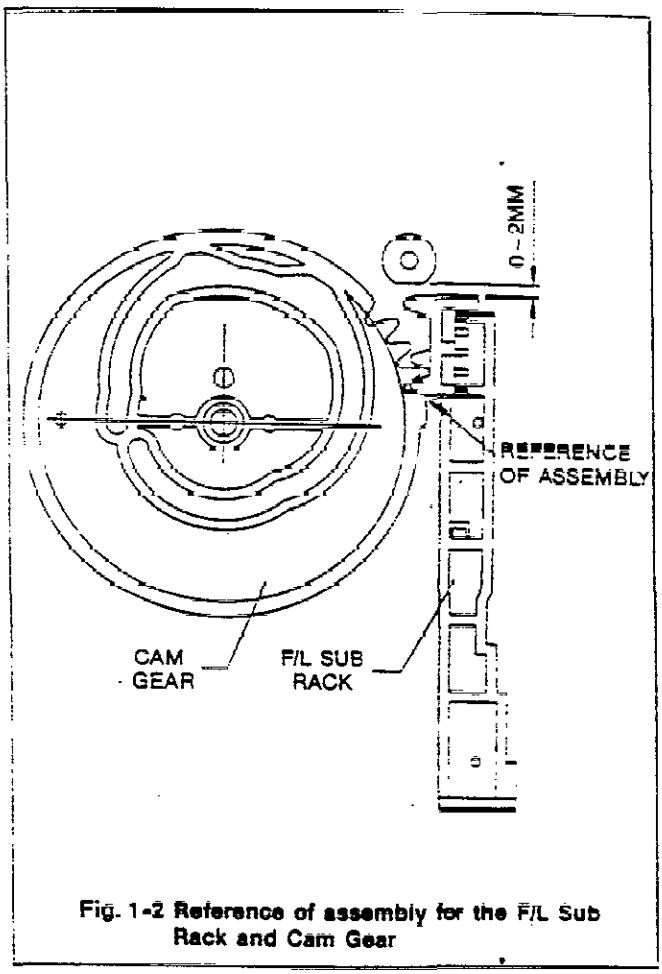


Fig. 1-2 Reference of assembly for the F/L Sub Rack and Cam Gear

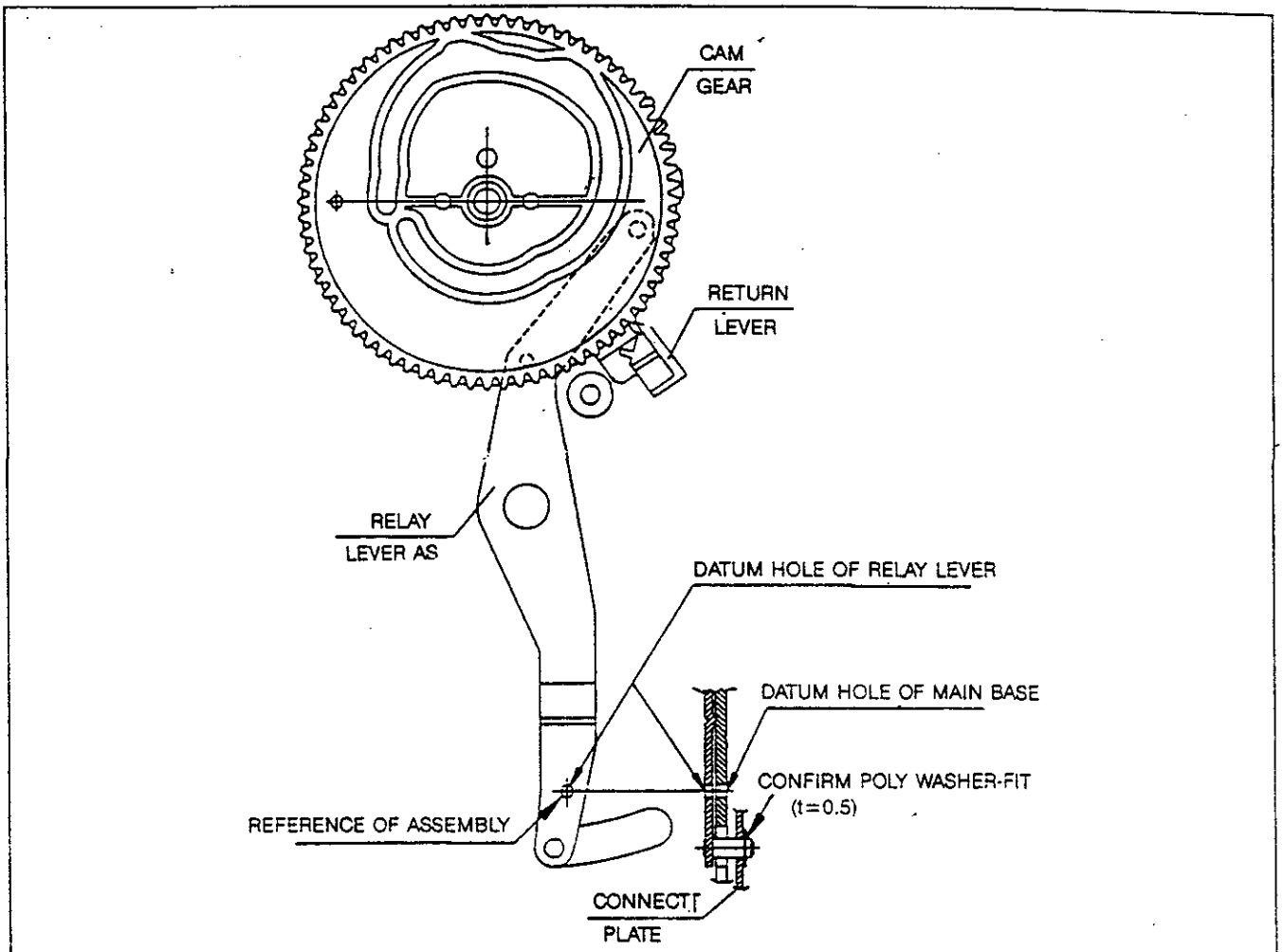


Fig. 1-3 Reference of assembly for the Cam Gear and Relay Lever

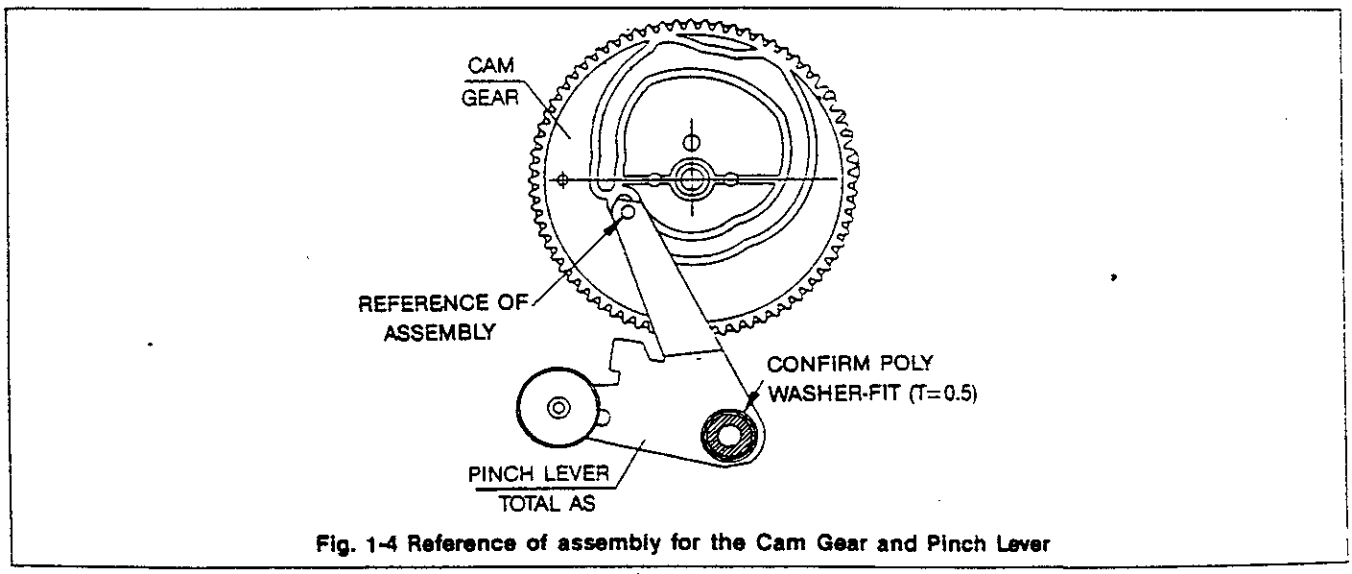


Fig. 1-4 Reference of assembly for the Cam Gear and Pinch Lever

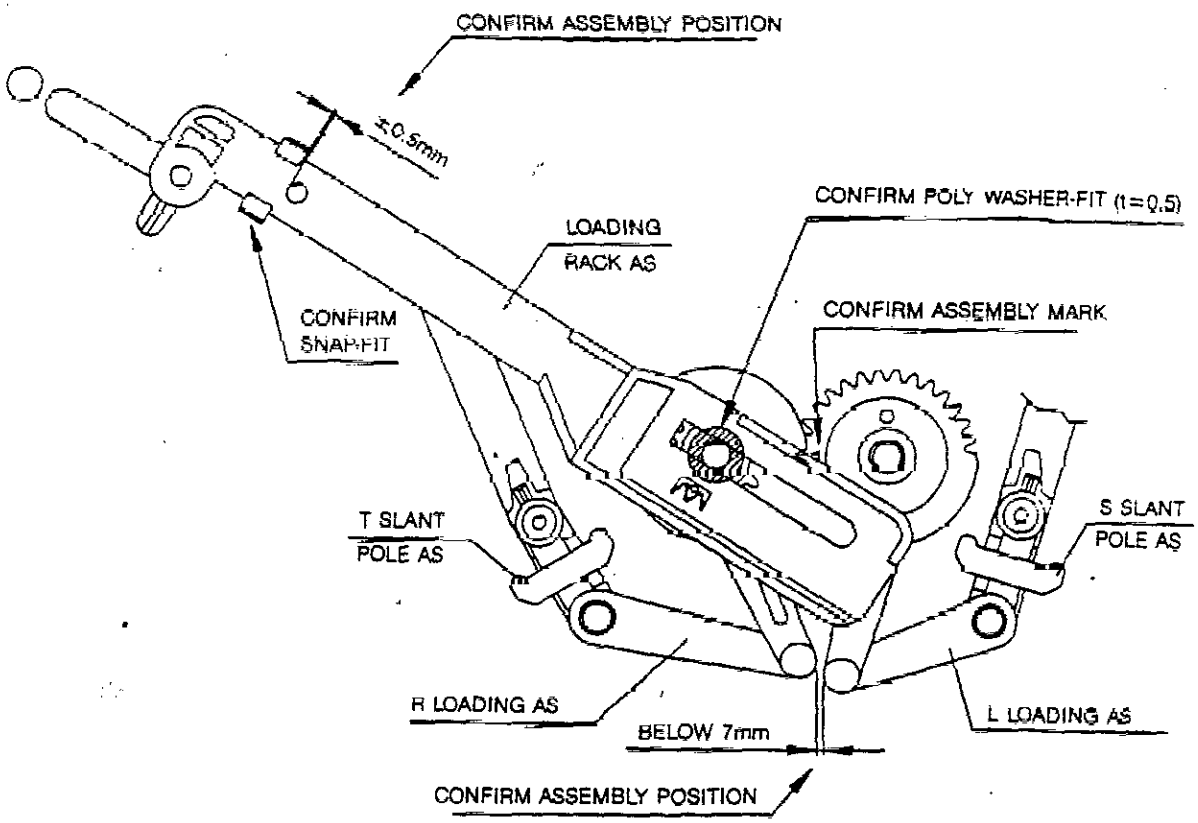


Fig. 1-5 Reference of assembly for the Loading Rack and R/L Loading AS

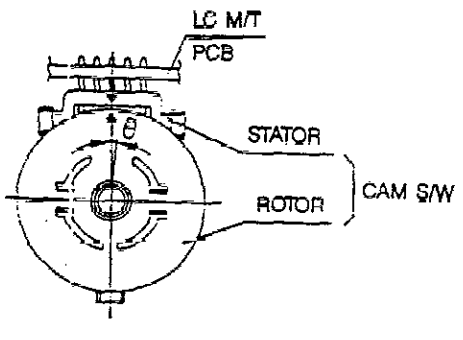


Fig. 1-6 Reference of assembly for the Cam Switch

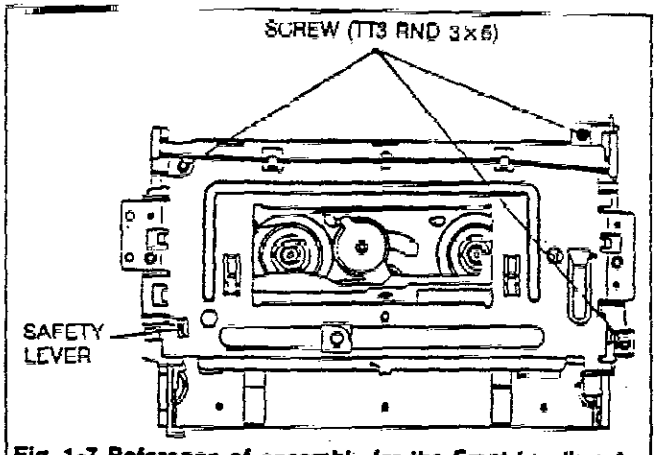


Fig. 1-7 Reference of assembly for the Front Loading As

***Note:** 1. The △ Shape of Rotor should be located in $\theta = 0 - 5°$.
2. The above figure is a reference bottom view for the L/C bracket Total AS.

***Note:** 1. It should be returned to its original state when the safety lever was pushed by hand.
2. On fastening screw, that above 6mm should not be used (In the case of using non-specification screw, the Capstan PCB is deformed.)

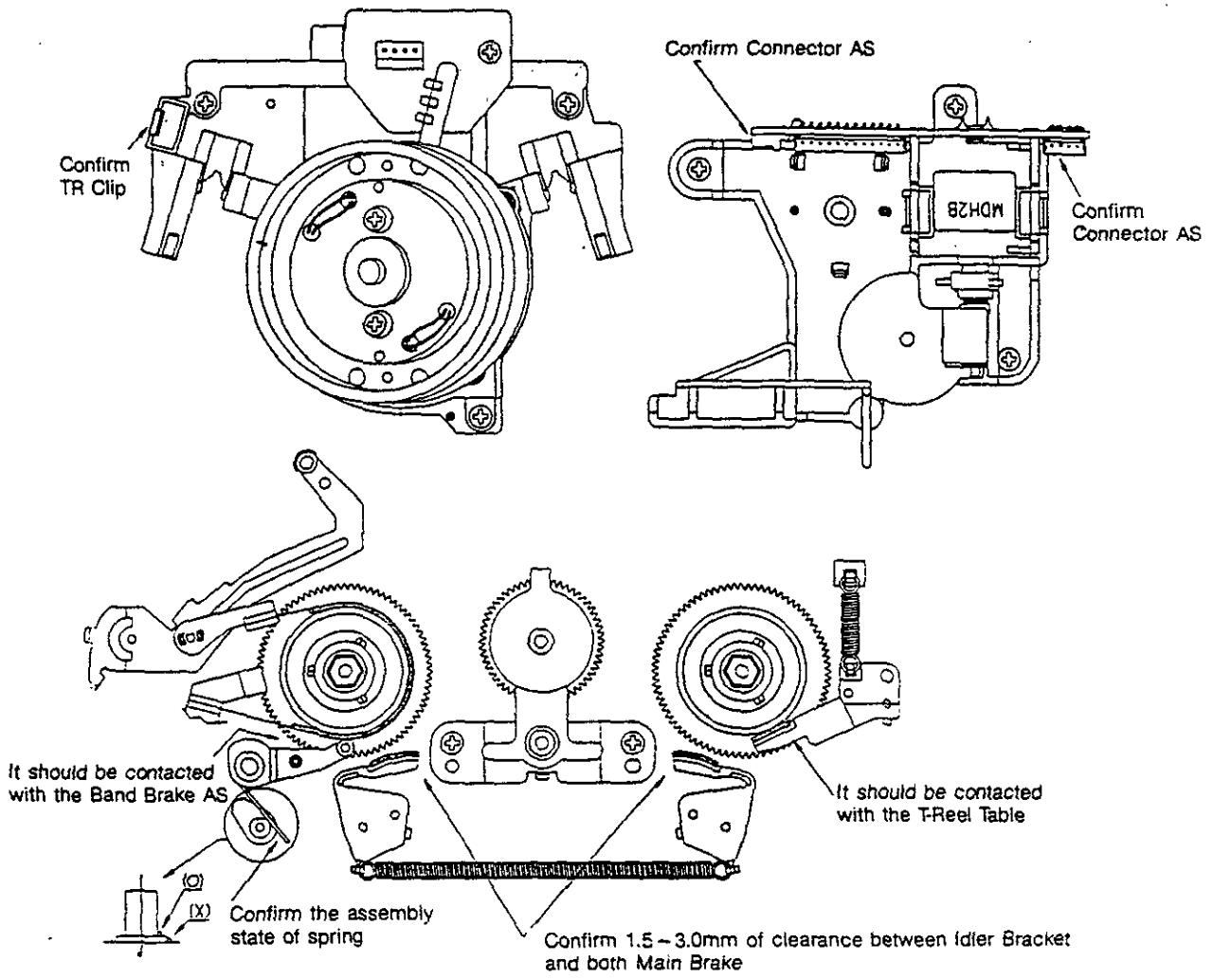


Fig. 1-8 Reference of assembly for the other parts

1-2. HOW TO SET MECHANICAL MODE

1) On removing the Front Loading Ass'y, Syscon executes the INITIAL MODE and then power off.
2) If the power is on in the INITIAL MODE, it executes the STOP MODE.
3) Push the button you want.
4) On executing the required mode, pull out the power plug if necessary.
5) If the STOP/EJECT button is pushed in the STOP MODE or EJECT MODE, it returns to the INITIAL MODE via the EJECT mode and then power off.
6) Reassemble the Front Loading Ass'y in the only EJECT MODE.

1-3. Measurement of Pressing Force for Pinch Roller

1) In a state of removing th Front Loading Ass'y, pull out the power plug after playing back without cassette.
2) Remove the L/C Bracket Total Ass'y and the Worm Wheel.
3) Pull the push-pull gauge to the direction 'A' indicated by the arrow as shown in Fig. 1-9.
4) Confirm that the scale of push-pull gauge is 1.2±0.2 Kg at the moemnt of the Pinch Roller separating from the Capstan Shaft.
5) If it is out of specification, replace the Pinch Roller Spring or the Pinch Lever Total Ass'y.

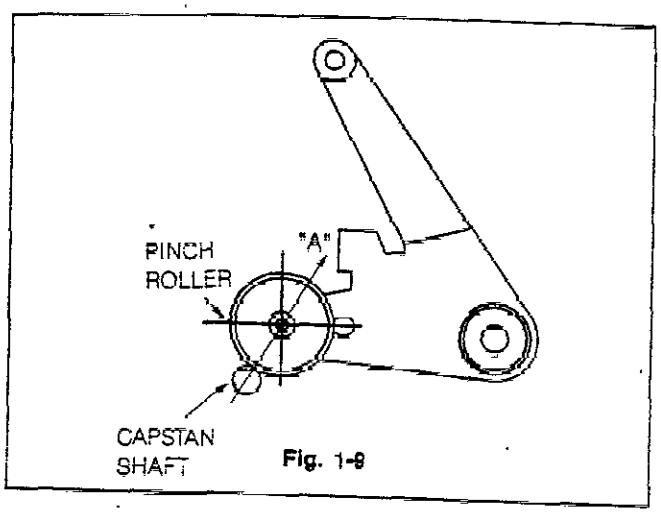


Fig. 1-9

1-4. The Measurement and Adjustment of Back Tension

1) Play back T-120 tape at its center position without F/L Ass'y, wait until the driving of tape is stabilized (about 10~20 seconds).
2) Set the Tentelometer as shown in Fig. 1-10 and confirm the scale (SPEC: 22~30g).
3) If it is out of specification, change the position of Tension Spring in order to adjust the tension value.

NOTE:
1. Make sure that the three probes of the Tentelometer are all in good contact with tape.
2. It is recommended to be measured three times as Tentelometer is very sensitive.

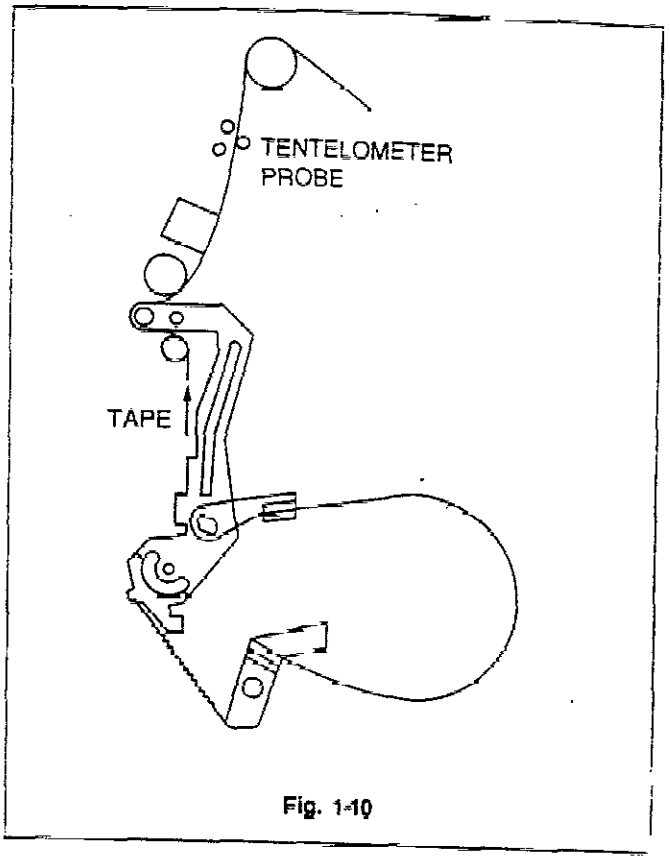


Fig. 1-10

1-5. The Height Adjustment of Reel-Table

1) Put the master into the Hole S and the Hole T in the Jig (TSH-V4) and set the Dial Gauge to zero.
2) Set the Jig (TSH-V4) on the Deck Ass'y as shown in Fig. 4-11 and check the height of Reel Table (S: 0±0.1 T: $0^{-0.05}_{-0.20}$)
3) If it is out of range, it is necessary to adjust the height of Reel Table by adding or subtracting the Poly Slider as shown in Table 1-1.

THICKNESS	PART NUMBER
0.13 mm	97S3903700
0.25 mm	97S3904000
0.5 mm	97S3903600

Table 1-1 Poly Slider for Adjustment

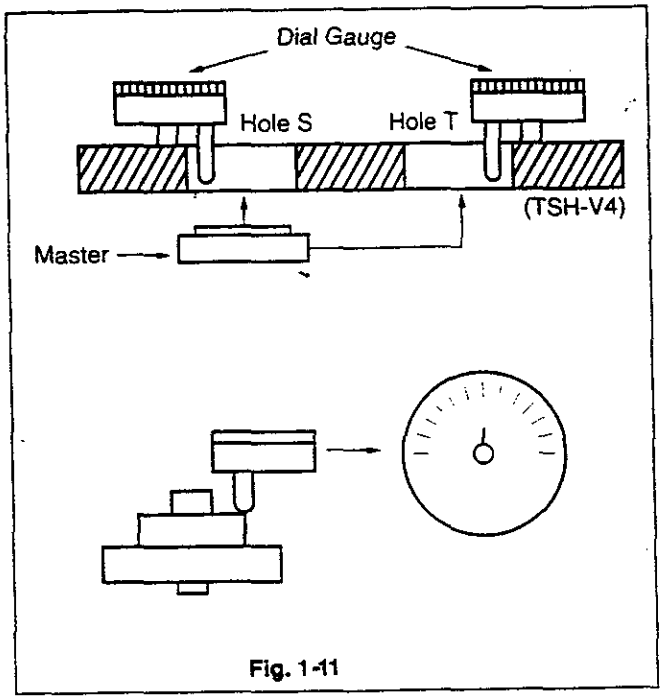


Fig. 1-11

1-6. The Measurement of Reel Torque

1) Play back the Cassette Type Torque Meter.
2) Measure the Take-up Reel Torque after the tape running is stabilized (SPEC: 90 – 170 cm).
3) If it is out of range, replace the Reel Gear Total Ass'y.

2. THE ADJUSTMENT OF TAPE TRANSPORTING SYSTEM

The tape transporting system has been precisely adjusted at the factory and does not ordinary require readjustment. But when the noise and tape damage takes place and parts that compose the tape transporting system are replaced due to troubles by long usage or unexpected accidents, check and readjust the tape transpoting system.

2-1. THE SCHEMATIC DIAGRAM OF TAPE TANSPORTING SYSTEM

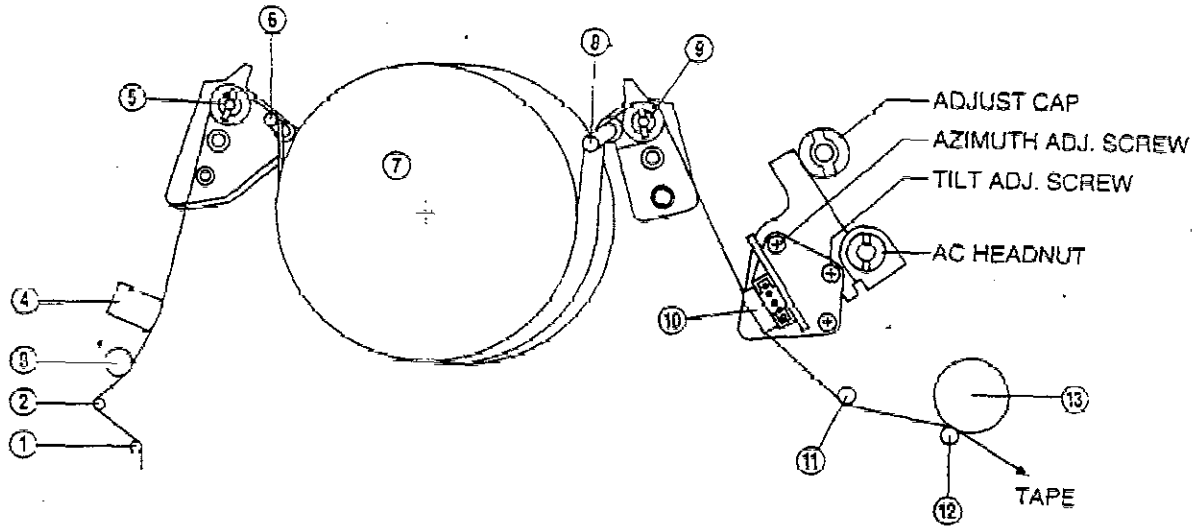
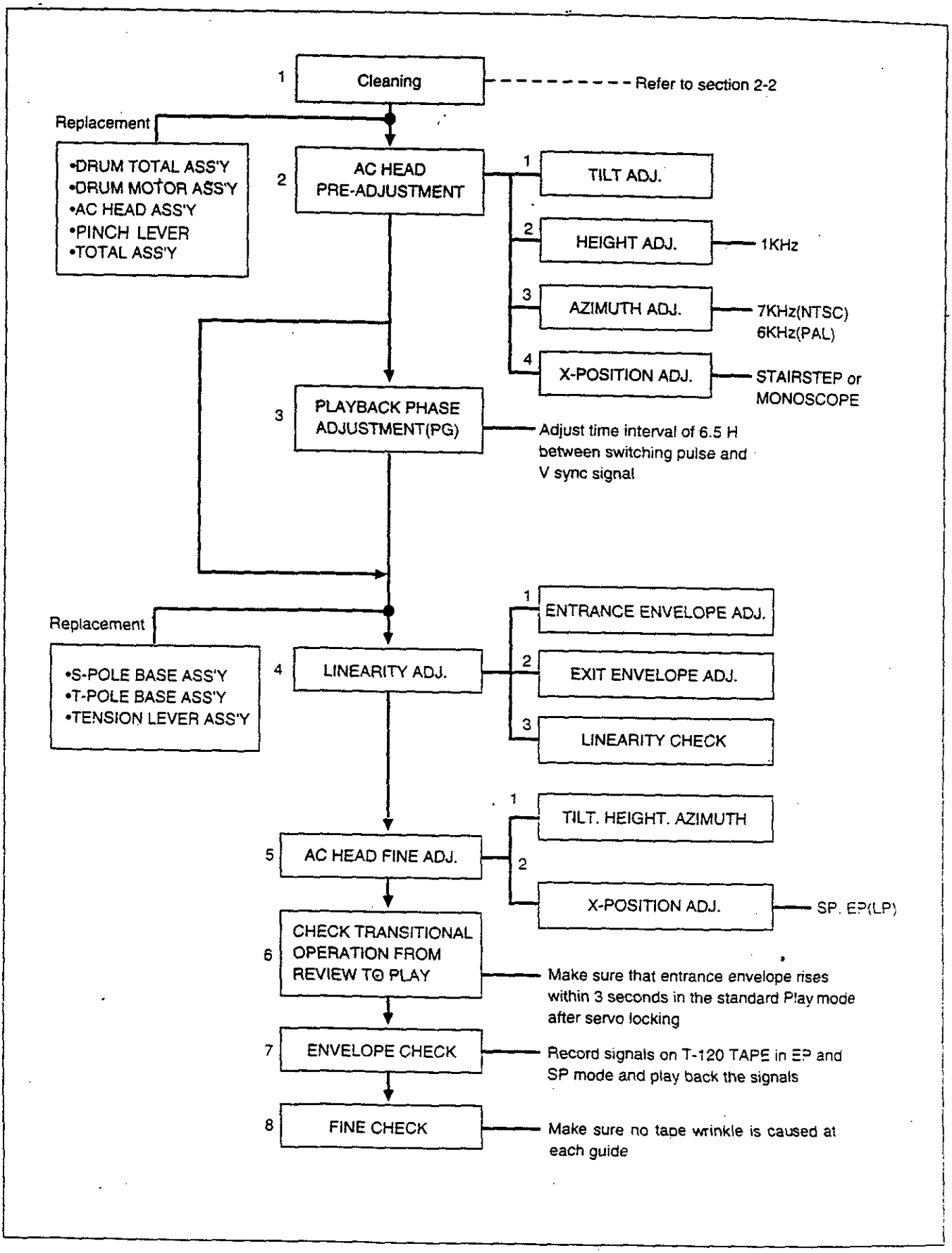


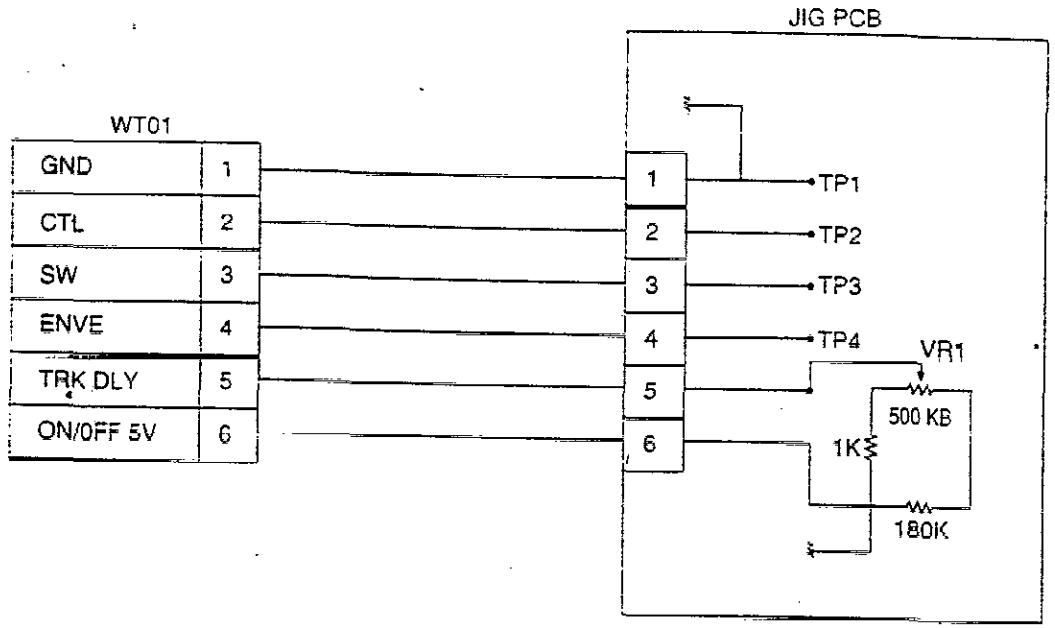
Fig. 2-1

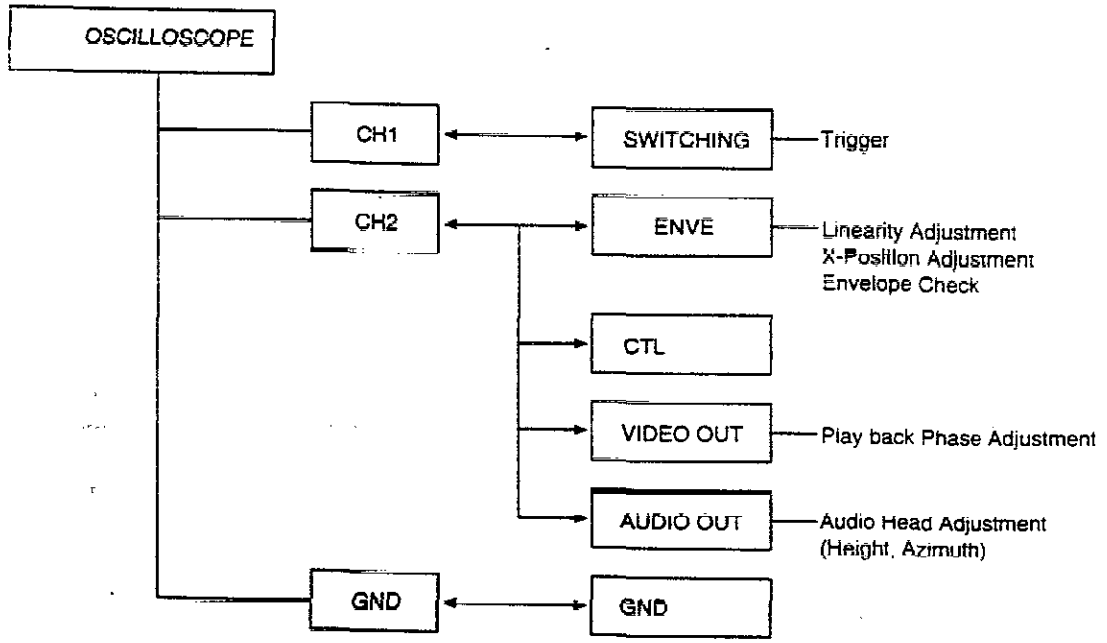
① VERTICAL POST
② TENSION POLE
③ S-GUIDE POST
④ FE HEAD
⑤ S-GUIDE ROLLER
⑥ S-SLANT POLE
⑦ CYLINDER
⑧ T-SLANT POLE
⑨ T-GUIDE ROLLER
⑩ AC HEAD
⑪ T-GUIDE POST
⑫ CAPSTAN SHAFT
⑬ PINCH ROLLER

2-2. ADJUSTMENT FLOW FOR THE TAPE TRANSPORTING SYSTEM

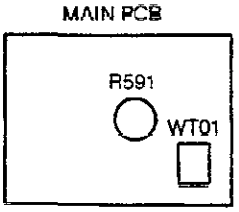


CONNECTION





ADJUSTMENT VR	REMARK
MAIN TRACKING VR PG VR	VR1 (JIG PCB) R591 (MAIN PCB)



2-3. ADJUSTMENT PROCEDURES

1) Pre-adjustment

When the parts as shown in Fig. 2-1 is replaced, the Tape Path may be changed and alignment tape may be damaged. To prevent this, first, playback a T-120 Tape and make sure excessive tape wrinkle does not occur at each tape guide.

If tape wrinkle is observed at the S & T-Guide Rollers (⑤, ⑨) in Fig. 5-1, turn the S & T-Guide Rollers for no wrinkle.

2) The Pre-adjustment of AC Head Ass'y

A. Tilt Adjustment
   a. Play back a T-120 Tape and observe running condition of the Tape at the upper and lower Flanges of the T-Guide Post Ass'y ⑪ in Fig. 2-1.
   b. Adjust the Tilt Adjusting Screw until tape runs stable as shown in Fig. 5-2.

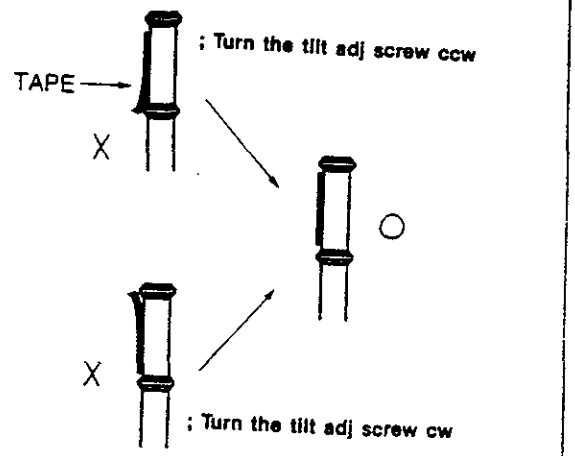


Fig. 2-2 T-Guide Post

B. Audio Azimuth Adjustment
   a. Play back the Alignment Tape (SP mode) with audio singal.
      • NTSC: 7 KHz • PAL: 6 KHz
   b. Observe audio signals on an oscilloscope.
   c. Turn the Azimuth Adjusting Screw to obtain maximum audio output.

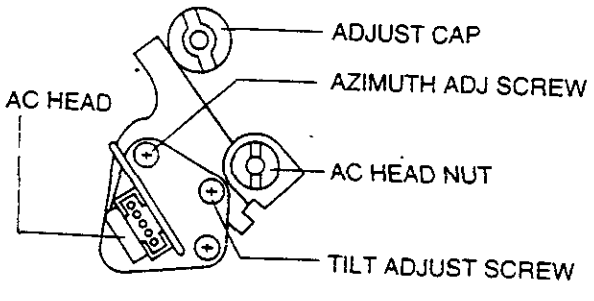


Fig. 2-3

C. The height Adjustment of AC Head
   a. Play back the Alignment Tape (SP mode) with 1 KHz audio singal.
   b. Turn the Ac Head Nut to obtain maximum audio output.

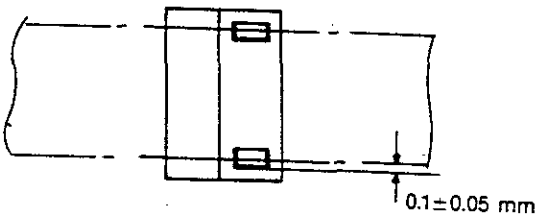


Fig. 2-4 The Height Adjustment of AC Head

D. The X-position Pre-adjustment of AC Head
   a. Play back the Alignment Tape with SP stairstep (or monoscope) singal.
   b. Adjust the Adjust Cap for maximum envelope output, after Tracking Volume is set at its center click position.

NOTE:
Before proceeding with this adjustment, remove locking paint applied on the Adjust Cap.

3) Playback Phase Adjustment (PG Adjustment)

A. Play back the Alignment Tape (SP mode).
B. Observe a video signal on an oscilloscope display triggered with the switching pulse.
C. Adjust the PG volume for time interval of 6.5 H±0.5 H between switching pulse and V sync signal.

NOTE:
In this adjustment, adjust the Tracking Volume the best video signal.

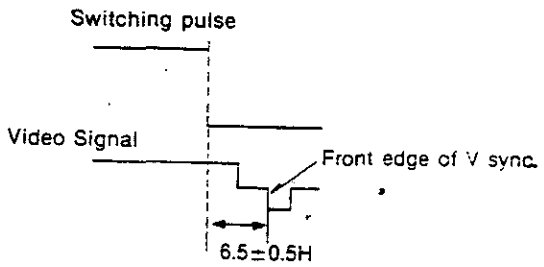


Fig. 2-5 Playback Phase Adjustment

4) Linearity Adjustment

A. Play back the Alignment Tape with SP stairstep (or monoscope) signal.
B. Observe the singal envelope on an oscilloscope display triggered by the switching pulse.
C. Make sure the envelope waveform (in its maximum) output meets the specifications shown in Fig. 2-6.
   a. Maximum output of envelope.
   b. Minimum output of envelope at the Drum entrance
   c. Minimum output of envelope at the Drum center.
   d. Maximum output of envelope at the Drum exit in Fig. 5-6.

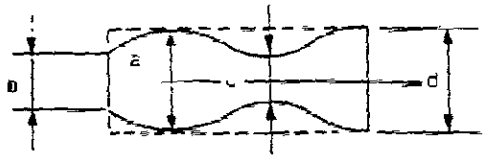


Fig. 2-6 Envelope Wareform Specification

D. If the section A in Fig. 5-7 does not meet the specification, adjust the S-Guide Roller up or down.
E. If the section B in Fig. 2-7 does not meet the specification, adjust the T-Guide Roller up or down.

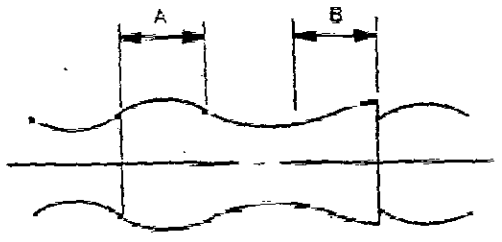


Fig. 2-7 Adjustment Point

F. After completing adjustment, turn the tracking Volume and make sure the envelope varies almost flat.
G. If the envelope varies as shown in Fig. 2-8, adjustment of the S-Guide Roller and the T-Guide Roller may be upset and then perform the adjustment again.

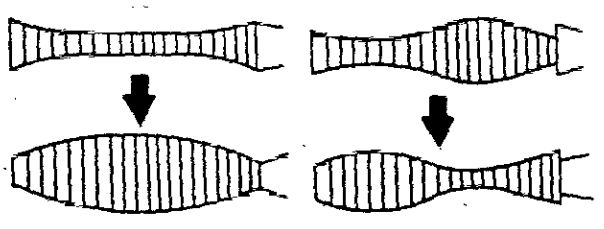


Fig. 2-8 Abnormal Waveform Variation

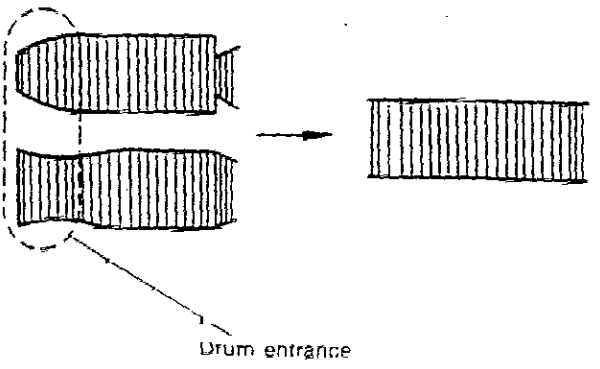


Fig. 2-9 Waveform Adjustment at the Drum Entrance

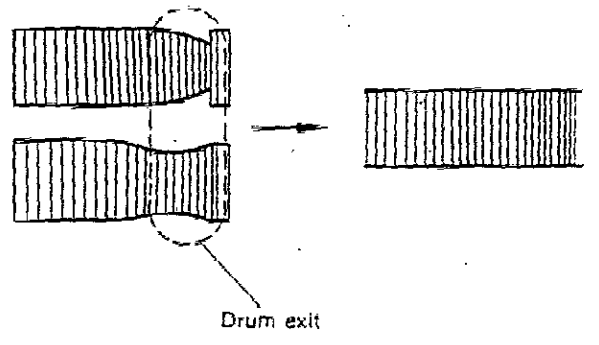


Fig 2-10 Waveform Adjustment at the Drum Exit

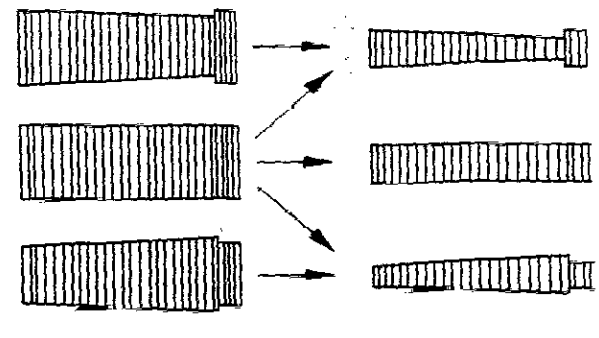


Fig. 2-11 Normal Waveform Variation

5) The fine adjustment of AC head

A. Tilt Adjustment (refer to Fig. 2-2)

Tape wrinkle check at the lower Flange of T-Guide Post Ass'y in Fig. 2-1.

a. If tape wrinkle is observed at the lower Flange of ⑪ adjust the Tilt Adjust Screw CCW until the wrinkle disappears.

b. If a gap observed between the lower Flange of ⑪ and the lower edge of tape, adjust the Tilt Adjusting Screw CW until the tape travels along the lower Flange.

B. Azimuth Adjustment (refer to section 2-3-2)

C. The X Position Adjustment for Interchangeability

a. Play back the Alignment Tape (SP mode) with stairstep (or monoscope) signal.

b. Place the Tracking Volume at its center click.

c. Trigger an oscilloscope with switching pulse and observe the envelope waveform of CH-2.

d. Turn the Adjust Cap CCW or CW within taper section and fix the Adjust Cap at the position where the envelope reaches a peak level.

e. Play back the Alignment Tape (EP or LP mode) with stairstep (or monoscope) signal.

f. Make sure the envelope is maximum at the center click position of Tracking Volume. If maximum envelope is not observed, perform the envelope adjustment to obtain maximum envelope output again.

g. Play back the Alignment Tape with stairstep (or monoscope) signal and make sure audio output is maximum.

• NTSC: 7 KHz • PAL: 6 Khz

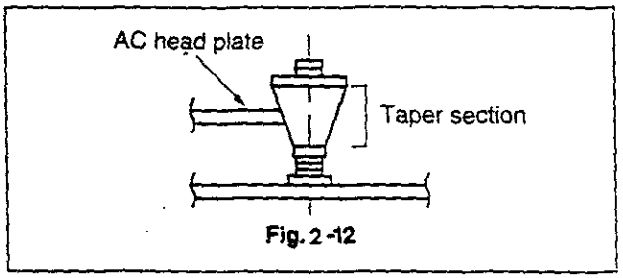


Fig. 2-12

6) Check for transitional operation from Review to Playback

A. Playback the Alignment Tape (SP mode) in the REVIEW mode and observe the envelope with an oscilloscope.

B. Switch the REVIEW mode to the PLAY mode. Make sure state within 3 seconds as shown in Fig. 2-13. If it does not rise within 3 seconds after servo locking adjust as follows.

a. Play back the Alignment Tape which has the stairstep (or monoscope) signal, looking Envelope Waveform, make sure that S & T-Guide Roller's height is adjusted correctly.

b. Change operation mode from Review mode to Play mode again and then make sure that the entrance envelope rises within 3 seconds after servo locking.

c. If not, perform the adjustment according to the section 2-3-4.

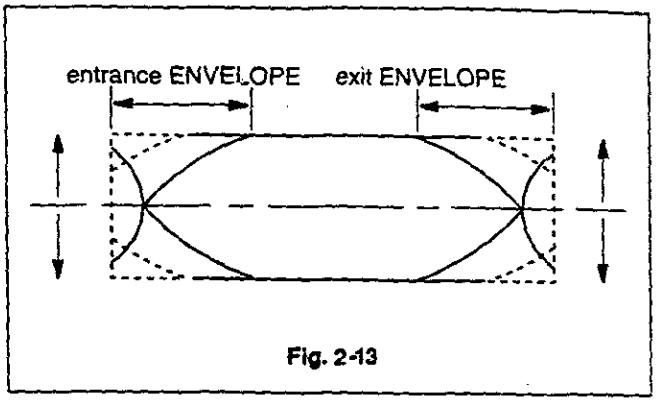


Fig. 2-13

7) Envelope Check

A. Record video signals (color bar or monoscope on T-120 Tape) and make sure the playback envelope output meets the specification as shown in Fig. 2-13.

B. In playing the same Video Deck used for the recording using the T-120, the envelope should meet the specification as shown in Fig. 2-14.

C. If the performance does not meet both specification, replace the Drum Total Ass'y.

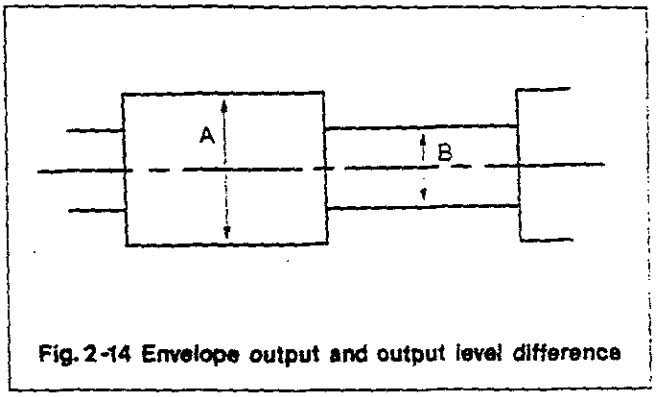


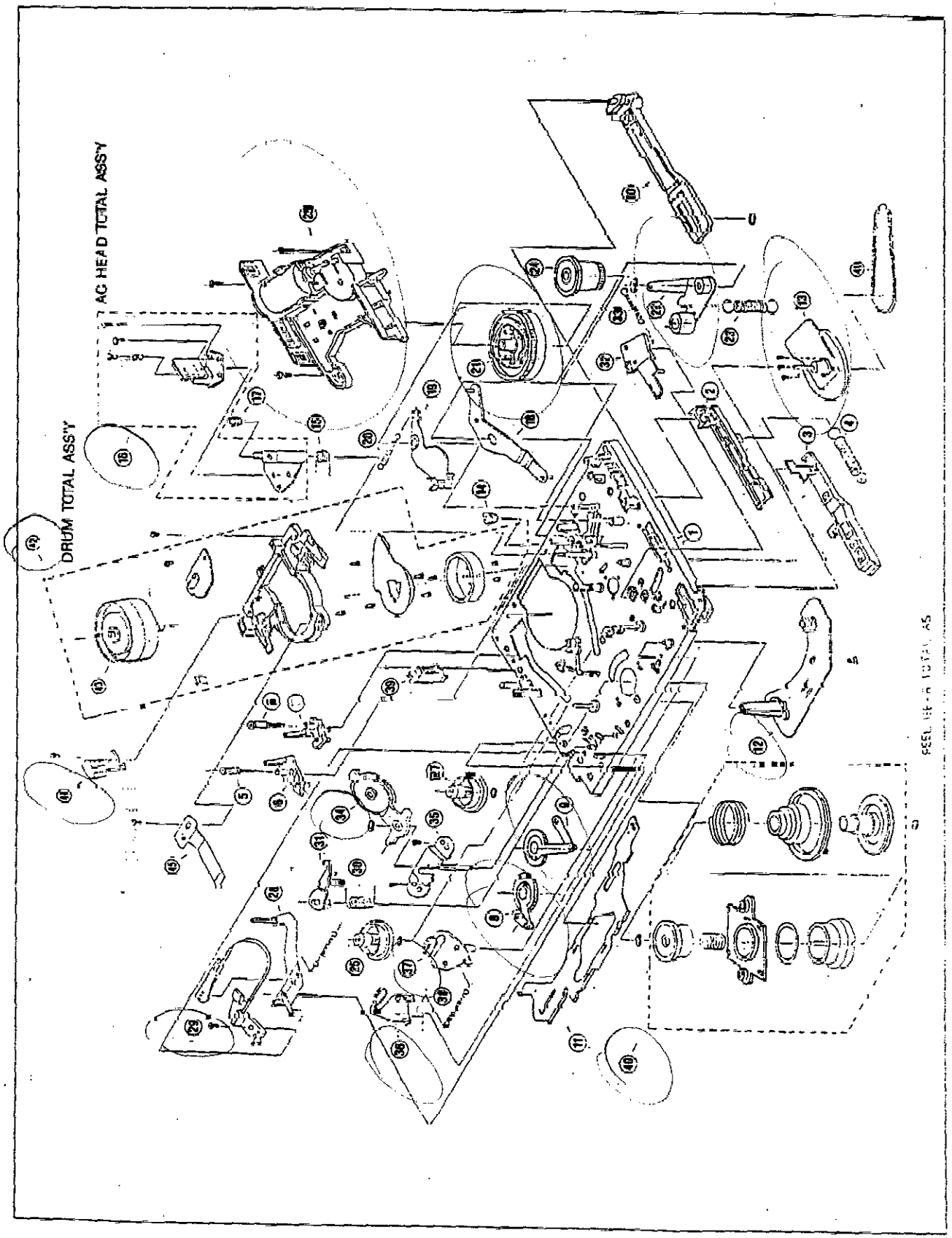
Fig. 2-14 Envelope output and output level difference

8) Final Check

Make sure no Tape wrinkle is caused at each guide.

3. EXPLODED VIEW AND PARTS LIST

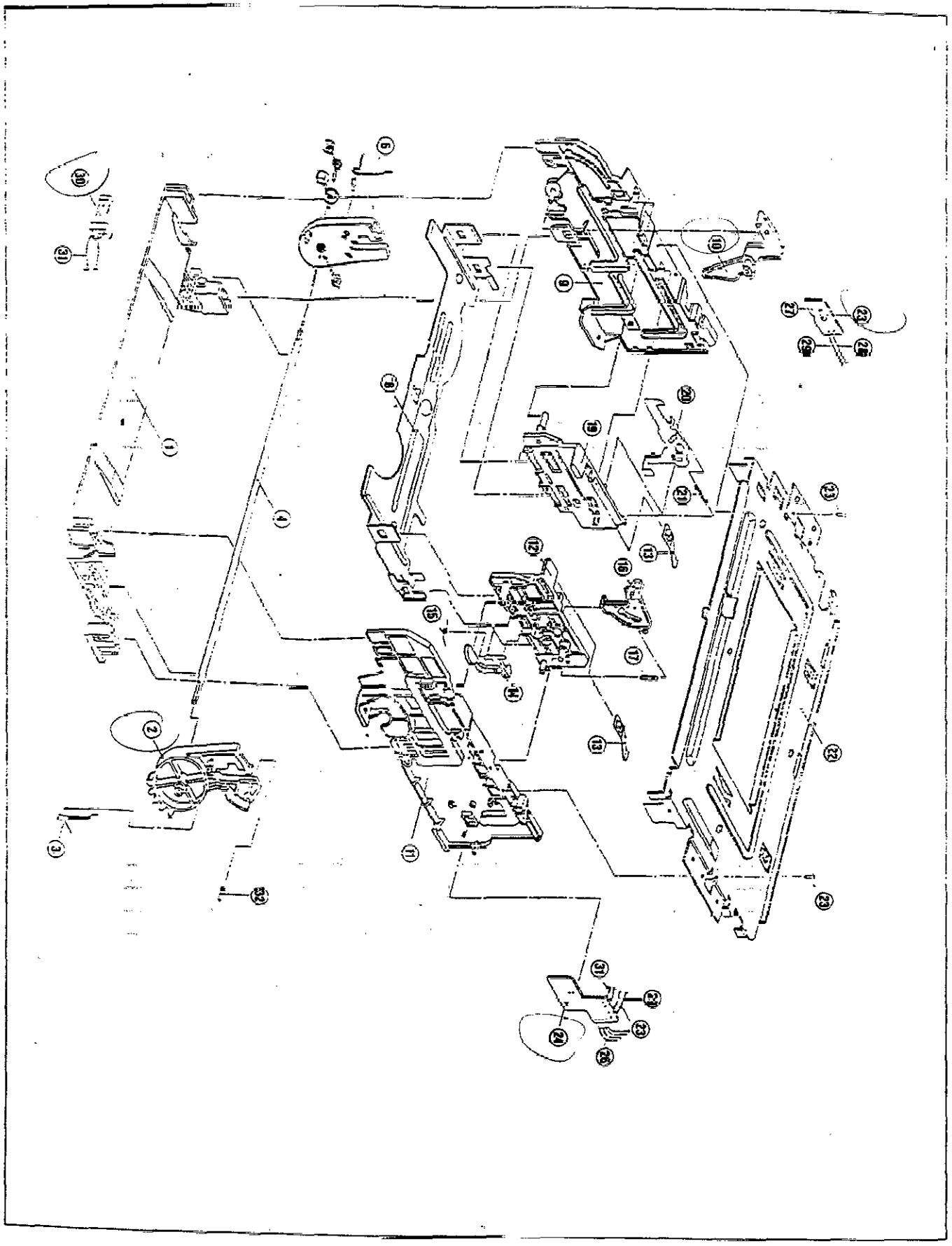
3-1. EXPLODED VIEW OF DECK ASS'Y



3-2. PARTS LIST OF DECK ASS'Y

NO	STOCK NO.	PART NAME	Q'TY	REMARKS
1	97SB379500	MAIN BASE AS	1 EA	
2	97S2714800	F/L SUB RACK	1 EA	
3	97S2714700	F/L DRIVE RACK	1 EA	
4	97S3035000	F/L RACK SPG	1 EA	
5	97SA511700	GUIDE ROLLER AS	2 EA	
6	97SA481400	S POLE BASE AS	1 EA	
7	97SA481300	T POLE BASE AS	1 EA	
8	97SB379800	L LOADING AS	1 EA	
9	97SB379700	R LOADING AS	1 EA	
10	97SB381600	LOADING RACK AS	1 EA	
11	97S0938000	CONNECT PLATE	1 EA	
12	97SB382800	DECK PCB AS	1 EA	
13	97S8103700	CAPSTAN MOTOR	1 EA	
14	97S0427710	CAP ADJUST	1 EA	
15	97S3031300	AC HEAD GUIDE SPG	1 EA	
16	97SB381000	AC HEAD PLATE TOTAL AS	1 EA	RECORD MODEL
	97SB38700	AC HEAD PLATE TOTAL AS	1 EA	PLAY ONLY MODEL
17	97S4001500	AC HEAD UNT	1 EA	
18	97SB381700	RELAY LEVER AS	1 EA	
19	97S2623500	RETURN LEVER	1 EA	
20	97S3031700	RETURN SPG	1 EA	
21	97S2713900	CAM GEAR	1 EA	
22	97SB381800	PINCH LEVER TOTAL AS	1 EA	
23	97S3032000	PINCH ROLLER SPG	1 EA	
24	97S2906800	WORM WHEEL	1 EA	
25	97SB381900	LC BRACKET TOTAL AS	1 EA	
26	97SB382000	S REEL TABLE AS	1 EA	
27	97SB382100	T REEL TABLE AS	1 EA	
28	97SB379600	TENSION LEVER AS	1 EA	
29	97SB382900	BAND BRAKE AS	1 EA	
30	97S3032700	S SUB BRAKE SPG	1 EA	
31	97S2623000	S SUB BRAKE LEVER	1 EA	
32	97SB382700	T SUB BRAKE AS	1 EA	
33	97S3032800	T SUB BRAKE SPG	1 EA	
34	97SB382300	IDLER PLATE TOTAL AS	1 EA	
35	97SB382200	IDLER BRACKET AS	1 EA	
36	97SB382500	S MAIN BRAKE AS	1 EA	
37	97SB382600	T MAIN BRAKE AS	1 EA	
38	97S3032600	MAIN BRAKE SPG	1 EA	
39	97S8010700	FE HEAD	1 EA	
40	97SB382400	REEL GEAR TOTAL AS	1 EA	
41	97S5502300	REEL BELT	1 EA	
42	97SA26500	DRUM TOTAL AS	1 EA	NTSC SP/EP
	97SA289200	DRUM TOTAL AS	1 EA	NTSC SP ONLY
	97SA286400	DRUM TOTAL AS	1 EA	PAL SP/LP
	97SA289400	DRUM TOTAL AS	1 EA	PAL SP ONLY
43	97SB335900	DRUM AS	1 EA	NTSC SP/EP
	97SB374000	DRUM AS	1 EA	NTSC SP ONLY
	97SB367000	DRUM AS	1 EA	PAL SP/LP
	97SB362400	DRUM AS	1 EA	PAL SP ONLY
44	97SB381100	EARTH BRACKET AS	1 EA	
45	97S3030200	EARTH SPG	1 EA	

3-3. EXPLODED VIEW OF FRONT LOADING ASS'Y



3-4. PARTS LIST OF FRONT LOADING ASS'Y

NO	STOCK NO.	PART NAME	Q'TY	DESCRIPTION	REMARKS
1	97S0938100	CST GUIDE PLATE	1 EA	ABS	
2	97S2624900	LOADING LEVER-R	1 EA	DURACON M90-02	
3	97S3030500	LEVER-R SPG	1 EA	SWPB	
4	97S3606800	LOADING SHAFT	1 EA	SUM32 MFZN	
5	97S2622100	LOADING LEVER-L	1 EA	DURANEX 3300	
6	97S3030600	LEVER-L SPG	1 EA	SWPB	
7	97S5702600	LEVER STOPPER	1 EA	SECC	
8	97S3116400	POLY WASHER	1 EA		
9	97S2430600	F/F BRKT-L	1 EA	ABS GLASS 10%	
10	97S2622500	F/L DOOR OPENER	1 EA	DURANEX 3300	
11	97S2433600	F/L BRKT-R	1 EA	ABS GLASS 10%	
12	97S5201700	HOLDER SLIDER-R	1 EA	DURACON M90-02	
13	97S3030100	CST UPPER SPG	2 EA	SUS304CSP	
14	97S2622400	RELEASE LEVER	1 EA	DURACON M90-02	
15	97S3030700	RELEASE SPG	1 EA	SUS304WPB	
16	97S2622600	PRE OPENER	1 EA	DURACON M90-02	
17	97S3030900	OPENER SPG	1 EA	SUS304WPB	
18	97S0935800	CST HOLDER PLATE	1 EA	SECC	
19	97S5201600	HOLDER SLIDER-L	1 EA	DURACON M90-02	
20	97S2622300	SAFETY LEVER	1 EA	SECC	
21	97S3030800	SAFETY SPG	1 EA	SUS304WPB	
22	97S0935700	TOP PLATE	1 EA	SECC	
23	7121300811	TAPPING SCREW	2 EA		
24	97P6538202	START PCB	1 EA	BAKELITE	
25	TPT304R2-	PHOTO TR	2 EA		
26	97P8805803	CONN AS	1 EA		
27	97P6538203	END PCB	1 EA	BAKELITE	
28	WP-9RD3213	LEAD WIRE	1 EA		
29	WP-9WH3213	LEAD WIRE	1 EA		
30	5SD0101052	RECORD SAFETY S/W	1 EA		RECORD MODEL
31	WP-9YW3113	LEAD WIRE		2 EA	RECORD MODEL
32	97S3538900	LEVER-R POST	1 EA	SUM32	

3-5. MAIN SPARE PARTS LIST OF DECK ASS'Y

NO	PART NAME	PART S/N	DESCRIPTION	Q'TY	REMARKS
1	CONNECT PLATE	97S0938000	SECC T1.0	1 EA	
2	F/L SUB RACK	97S2714800	DURANEX 3300	3 EA	
3	F/L DRIVE RACK	97S2714700	DURANEX 3300	3 EA	
4	F/L RACK SPG	97S3035000	SWPB	1 EA	
5	S SLANT POLE AS	97SB387200	G-MECHA	1 EA	
6	T SLANT POLE AS	97SB387100	G-MECHA	1 EA	
7	L LOADING AS	97SB379800	G-MECHA	1 EA	
8	R LOADING AS	97SB379700	G-MECHA	1 EA	
9	LOADING RACK AS	97SB381600	G-MECHA	1 EA	
10	DECK PCB AS	97SB382800	G-MECHA	3 EA	
11	ADJUST CAP	97S0427710	ZAMAK 3	1 EA	
12	CAPSTAN MOTOR	97S8103700	F2QKB47	3 EA	
13	AC HEAD PLATE TOTAL AS	97SB381000	G-MECHA	3 EA	RECORD MODEL
	AC HEAD PLATE TOTAL AS	97SB387100	G-MECHA	3 EA	PLAY ONLY MODEL
14	RELAY LEVER AS	97SB381700	G-MECHA	1 EA	
15	RETURN LEVER	97S2623500	DURACON M90	1 EA	
16	RETURN SPG	97S3031700	SUS304WPB	1 EA	
17	CAM GEAR	97S2713900	DURACON AW-01	1 EA	
18	PINCH LEVER TOTAL AS	97SB381800	G-MECHA	3 EA	
19	WORM WHEEL	97S2906800	DURACON M90	1 EA	
20	LC BRACKET TOTAL AS	97SB381900	G-MECHA	3 EA	
21	IDLER PLATE TOTAL AS	97SB382300	G-MECHA	3 EA	
22	S REEL TABLE AS	97SB382000	G-MECHA	3 EA	
23	T REEL TABLE AS	97SB382100	G-MECHA	3 EA	
24	TENSION LEVER AS	97SB379600	G-MECHA	3 EA	
25	BAND BRAKE AS	97SB382900	G-MECHA	1 EA	
26	TENSION SPG	97S3031200	SUS304WPB	1 EA	
27	S SUB BRAKE LEVER	97S2623000	DURACON M90	1 EA	
28	S SUB BRAKE SPG	97S3032700	SUS304WPB	1 EA	
29	T SUB BRAKE AS	97SB382700	G-MECHA	3 EA	
30	T SUB BRAKE SPG	97S3032800	SUS304WPB	1 EA	
31	S MAIN BRAKE AS	97SB382500	G-MECHA	3 EA	
32	T MAIN BRAKE AS	97SB382600	G-MECHA	3 EA	
33	MAIN BRAKE SPG	97S3032600	SUS304WPB	1 EA	RECORD MODEL
34	FE HEAD	97S8010700	HVFMF0016AK	3EA	
35	REEL GEAR TOTAL AS	97SB382400	G-MECHA	1EA	
36	CONNECTOR AS	97P8806203	MAIN-DECK (MOTOR) 14P-6/9P	3 EA	
37	TR CLIP	97S4602800	SUS301 CSP T0.2	3 EA	
38	DRUM TOTAL AS	97SA265000	G-MECHA	3 EA	NTSC SP/EP
	DRUM TOTAL AS	97SA289200	G-MECHA	3 EA	NTSC SP ONLY
	DRUM TOTAL AS	97SA286400	G-MECHA	3 EA	PAL SP/LP
	DRUM TOTAL AS	97SA289400	G-MECHA	3 EA	PAL SP ONLY
39	FLAT TYPE F/L AS	97SB125900	G-MECHA	3 EA	RECORD MODEL
	FLAT TYPE F/L AS	97SB177600	G-MECHA	3 EA	PLAY ONLY MODEL
40	POLY WASHER	97S3117300	D3.6 x D8 x T0.5	5 EA	
41	POLY WASHER	97S3108200	D2.6 x D6 x T0.5	5 EA	
42	POLY SLIDER	97S3903600	D5.1 x D8 x T0.5	5 EA	
43	TAPPING SCREW	7121300611	T2S PAN 3 x 6 MFZN	5 EA	
44	TAPTITE SCREW	7278260611	TT3 WAS 2.6 x 6 MFZN	10 EA	
45	TAPPING SCREW	7124301211	T2S RND 3 x 12 MFZN	5 EA	
46	TAPTITE SCREW	7274300611	TT3 RND 3 x 6 MFZN	5 EA	
47	TAPTITE SCREW	7278300511	TT3 WAS 3 x 5 MFZN	5 EA	
48	TAPTITE SCREW	7274261011	TT3 RND 2.6 x 10 MFZN	5 EA	
49	TAPTITE SCREW	7274301011	TT3 RND 3 x 10 MFZN	5 EA	
50	TAPTITE SCREW	7274301211	TT3 RND 3 x 12 MFZN	5 EA	

報表代號: BMR2S　　** SPARE PARTS LIST **　　頁　次: 1
報表日期: 95/11/20　　印表時間: 16:53
成品料號: TVR440-0AA122　　規格: TVR-440A TEAC *MV-1411P* 14"CT

項次	料品代號	料 品 規 格		單位
1	02-47-1405	CRT ASS'Y LIST		EA
2	02-L1-0122	TVR-440A TEAC FINAL		EA
3	02-L1-1611	TVR-440A MAIN PCB ASS'Y		EA
4	02-L1-1801	MAIN PCB ASS'Y TVR-440B		EA
5	02-L1-2181	HEAD MODULE PCB ASS'Y	T	EA
6	02-L1-2281	KEY BOARD ASS'Y TVR-440PN		EA
7	02-L1-3001	FINAL LIST TVR-440		EA
8	02-L1-5002	DECK ASS'Y VCR-440B		EA
9	02-L1-8001	PCB POWER REGULATIOR		EA
10	02-L1-8006	AC/DC SW PWR PCB		EA
11	02-L1-9003	FAN PCB ASS'Y TVR-440		EA
12	02-L1-9004A	CRT PCB ASS'Y		EA
SUB-TOTAL: (02)				
13	03-L1-1611	TVR-440A MAIN PCB ASS'Y		EA
14	03-L1-1801	MAIN PCB ASS'Y TVR-440B		EA
15	03-L1-2181	HEAD MODULE PCB ASS'Y	T	EA
16	03-L1-2281	KEY BOARD ASS'Y TVR-440PN		EA
17	03-L1-8001	PCB POWER REGOULATION		EA
18	03-L1-9004	CRT SOCKET		EA
SUB-TOTAL: (03)				
19	04-L1-1801	MAIN PCB ASS'Y TVR-440B		EA
20	04-L1-2181	HEAD MODULE PCB ASS'Y	T	EA
SUB-TOTAL: (04)				
21	10-03-1021	IC LA7295 30PIN		EA
22	10-03-1022	IC LA7576 DIP16		EA
23	10-07-1011	IC LC8992 DIP8	S	EA
24	10-09-1015	IC HA17358 DIP8	H	EA
25	10-09-1019	IC MC1558 DIP 8 MOTOROLA		EA
26	10-10-1017	IC M34300-012SP DIP42	M	EA
27	10-10-1031	IC 130K 1SB8SS CPU/SERVO	6	EA
28	10-11-1005	IC M6M 80011P DIP8	M	EA
29	10-15-1011	IC M4053BP DIP16	M	EA
30	10-20-0120	IC TDA4662 DIP16		EA
31	10-20-0607	IC TDA 3653B SIP 9	P	EA
32	10-20-0704	IC TDA 8361 DIP 52	P	EA
33	10-20-1006	IC AN5265 SIP9	M	EA
34	10-20-1012	IC LA7910 SIP9	S	EA
35	10-20-1024	IC LA7391A DIP 42 SANYO		EA
36	10-21-1001	IC KA5306 DIP 10 SAMSUNG		EA
37	10-23-1017	IC M51943 BSL 3PIN		EA
SUB-TOTAL: (10)				
38	11-00-0005	CX 14"		EA
39	11-47-1405BS	CRT 14" BARE TUBE SAMSUNG		EA

TND91C642.

項次	料品代號	料品規格		單位
SUB-TOTAL: (11)				
40	12-01-1002	TR H1T5417P TO-92 NPN	H	EA
41	12-02-1003	TR 2SC945K TO-92 NPN	H	EA
42	12-02-1016	TR C1959 TO-92 NPN	S	EA
43	12-02-2021	TR 2SA733P TO-92 PNP	S	EA
44	12-03-1047	TR C2310/2229 TO-92 NPN	S	EA
45	12-03-1052	TR 2SD1666R TO-220 NPN	S	EA
46	12-03-1062	TR 2SD1273Q PANASONIC		EA
47	12-03-2031	TR UB8550SD TO-92 PNP	H	EA
48	12-03-2040	TR D1155 TO-220 PNP	M	EA
49	12-04-0001	TR TLS106-4 SCR TO220/SGS		EA
50	12-04-1002	TR D780CD/2SC2500 TO-92	T	EA
51	12-04-1018	TR D1680 TO-220 NPN	M	EA
52	12-04-1025	TR 2SD 1545 TO-220 NPN	T	EA
53	12-05-5006	X'TAL 4.43MHZ	H	EA
54	12-05-5009	X'TAL 8.86725MHZ	H	EA
55	12-05-5012	X'TAL 4.0MHZ	H	EA
56	12-05-5028	X'TAL 10MHZ		EA
57	12-62-1002	TR 2SC2412K(B) T146	R	EA
58	12-62-2001	TR 2SA1037K(B) T146	R	EA
59	12-64-1002	TR DTC144EK T146	R	EA
60	12-64-2001	XSTR DTA144ID SMT PNP	R	EA
SUB-TOTAL: (12)				
61	13-03-1000	D MA161/IN4148 DO-35	H	EA
62	13-03-1015	DIODE SW SIOSC4M	S	EA
63	13-05-1000	D IN4001 1A/50V DO-41	S	EA
64	13-05-1008	D FR1005 1A DO-41	S	EA
65	13-05-1011	D FR3005 3A/600V DO-41	S	EA
66	13-05-1025	D FR6005 6A/600V 9.1D	S	EA
67	13-05-1026	D IN5822 3A/40V DO-201	S	EA
68	13-05-1036	D RS205 BRIDGE 2A/600V	R	EA
69	13-06-1130	DZ 13V		EA
70	13-06-1330	D ZENER 33V DO-35	H	EA
71	13-06-1519	D ZENER 5.1V DO-35	H	EA
72	13-06-1569	D ZENER 5.6V DO-35	H	EA
73	13-06-1689	D ZENER 6.8V DO-35	H	EA
74	13-06-1829	D ZENER 8.2V DO-35	H	EA
75	13-06-1909	D ZENER 9V DO-35	H	EA
76	13-23-1000	D IN4148 TAP. DO-35	H	EA
SUB-TOTAL: (13)				
77	14-01-0005	SENSOR HC-330M		EA
SUB-TOTAL: (14)				
78	15-06-0250	TUNER CTV SAA	M	EA

(exclusive)

報表代號: BMR28 ** SPARE PARTS LIST ** 頁 次: 3
印表日期: 95/11/20 印表時間: 16:55
成品料號: TVR440-GAA122 規格: TVR-440A TEAC *MV-1411P* 14"CT

項次	料品代號	料品規格	單位
SUB-TOTAL: (15)			
79	16-01-1122	RESISTOR 1K2 1/2W	EA
80	16-01-1181	RESISTOR 180 OHM 1/2W	EA
81	16-01-1183	RESISTOR 18K OHM 1/2W	EA
82	16-01-1184	RESISTOR 180K 1/2W	EA
83	16-01-1470	RESISTOR 4.7 OHM 1/2W S	EA
84	16-01-1505	RESISTOR 5MG 1/2W	EA
85	16-03-1103	RESISTOR 10K 1/8W S	EA
86	16-03-1222	RESISTOR 2K2 1/8W S	EA
87	16-03-1331	RESISTOR 330 OHM 1/8W S	EA
88	16-03-1472	RESISTOR 4K7 1/8W S	EA
89	16-03-1682	RESISTOR 6K8 1/8W S	EA
90	16-03-1822	RESISTOR 8K2 1/8W S	EA
91	16-06-1223	RESISTOR 22K 1W S	EA
92	16-06-1330	RESISTOR 3.3 OHM 1W S	EA
93	16-07-1470	RESISTOR 4.7 OHM 2W S	EA
94	16-12-1101	RESISTOR 100 OHM 1/4W U	EA
95	16-12-1220	RESISTOR 2.2 OHM 1/4W U	EA
96	16-12-1330	RESISTOR 33 OHM 1/4W U	EA
97	16-12-1331	RESISTOR 330 OHM 1/4W U	EA
98	16-12-1332	RESISTOR 3K3 1/4W U	EA
99	16-12-1470	RESISTOR 47 OHM 1/4W U	EA
100	16-23-1101	RESISTOR 100 OHM 1/8W T	EA
101	16-23-1102	RESISTOR 1K 1/8W T	EA
102	16-23-1103	RESISTOR 10K 1/8W T	EA
103	16-23-1104	RESISTOR 100K 1/8W T	EA
104	16-23-1105	RESISTOR 1M 1/8W T	EA
105	16-23-1121	RESISTOR 120 OHM 1/8W T	EA
106	16-23-1122	RESISTOR 1K2 1/8W T	EA
107	16-23-1123	RESISTOR 12K 1/8W T	EA
108	16-23-1124	RESISTOR 120K 1/8W T	EA
109	16-23-1151	RESISTOR 150 OHM 1/8W T	EA
110	16-23-1152	RESISTOR 1K5 1/8W T	EA
111	16-23-1153	RESISTOR 15K 1/8W T	EA
112	16-23-1181	RESISTOR 180 OHM 1/8W T	EA
113	16-23-1182	RESISTOR 1K8 1/8W T	EA
114	16-23-1184	RESISTOR 180K 1/8W T	EA
115	16-23-1221	RESISTOR 220 OHM 1/8W T	EA
116	16-23-1222	RESISTOR 2K2 1/8W T	EA
117	16-23-1223	RESISTOR 22K 1/8W T	EA
118	16-23-1224	RESISTOR 220K 1/8W T	EA
119	16-23-1272	RESISTOR 2K7 1/8W T	EA
120	16-23-1273	RESISTOR 27K 1/8W T	EA
121	16-23-1331	RESISTOR 330 OHM 1/8W T	EA
122	16-23-1332	RESISTOR 3K3 1/8W T	EA
123	16-23-1333	RESISTOR 33K 1/8W T	EA
124	16-23-1334	RESISTOR 330K 1/8W T	EA
125	16-23-1335	RESISTOR 3.3M 1/8W T	EA
126	16-23-1392	RESISTOR 3K9 1/8W T	EA

項次	料品代號	料 品 規 格	單位
127	16-23-1470	RESISTOR 47 OHM 1/8W T	EA
128	16-23-1471	RESISTOR 470 OHM 1/8W T	EA
129	16-23-1472	RESISTOR 4K7 1/8W T	EA
130	16-23-1473	RESISTOR 47K 1/8W T	EA
131	16-23-1560	RESISTOR 56 OHM 1/8W T	EA
132	16-23-1561	RESISTOR 560 OHM 1/8W T	EA
133	16-23-1562	RESISTOR 5K6 1/8W T	EA
134	16-23-1563	RESISTOR 56K 1/8W T	EA
135	16-23-1680	RESISTOR 68 OHM 1/8W T	EA
136	16-23-1681	RESISTOR 680 OHM 1/8W T	EA
137	16-23-1682	RESISTOR 6K8 1/8W T	EA
138	16-23-1750	RESISTOR 75 OHM 1/8W T	EA
139	16-23-1820	RESISTOR 82 OHM 1/8W T	EA
140	16-23-1821	RESISTOR 820 OHM 1/8W T	EA
141	16-23-1822	RESISTOR 8K2 1/8W T	EA
142	16-23-1824	RESISTOR 820K 1/8W T	EA
143	16-40-1390	RESISTOR 39 OHM 6W M	EA
144	16-41-1154	RESISTOR 150K 1/2W M	EA
145	16-46-1120	RESISTOR 12 OHM 1W M	EA
146	16-46-1338	RESISTOR 0.33OHM 1W M	EA
147	16-47-1103	RESISTOR 10K 2W (METAC)	EA
148	16-47-1120	RESISTOR 12 OHM 2W M	EA
149	16-47-1229	RESISTOR 2.2 OHM 2W M	EA
150	16-47-1270	RESISTOR 27 OHM 2W M	EA
151	16-47-1270S	RESISTOR 27 OHM 2W M	EA
152	16-50-1400	RESISTOR 4 OHM 5W CP	EA
153	16-63-1000	RESISTOR 0 OHM 1/4W CP	EA
154	16-63-1100	RESISTOR 10 OHM 1/8W CP	EA
155	16-63-1102	RESISTOR 1K 1/8W CP	EA
156	16-63-1103	RESISTOR 10K 1/4W CP	EA
157	16-63-1104	RESISTOR 100K 1/4W CP	EA
158	16-63-1105	RESISTOR 1M 1/4W CP	EA
159	16-63-1121	RESISTOR 120 OHM 1/4W CP	EA
160	16-63-1122	RESISTOR 1K2 1/4W CP	EA
161	16-63-1123	RESISTOR 12K 1/4W CP	EA
162	16-63-1152	RESISTOR 1K5 1/4W CP	EA
163	16-63-1153	RESISTOR 15K 1/4W CP	EA
164	16-63-1181	RESISTOR 180 OHM 1/8W CP	EA
165	16-63-1182	RESISTOR 1K8 1/4W CP	EA
166	16-63-1183	RESISTOR 18K 1/4W CP	EA
167	16-63-1202	RESISTOR 2K 1/4W CP	EA
168	16-63-1203	RESISTOR 20K 1/4W CP	EA
169	16-63-1221	RESISTOR 220 OHM 1/4W CP	EA
170	16-63-1222	RESISTOR 2K2 1/4W CP	EA
171	16-63-1223	RESISTOR 22K 1/4W CP	EA
172	16-63-1271	RESISTOR 270 OHM 1/4W CP	EA
173	16-63-1272	RESISTOR 2K7 1/4W CP	EA
174	16-63-1273	RESISTOR 27K 1/4W CP	EA
175	16-63-1302	RESISTOR 3K 1/4W CP	EA
176	16-63-1331	RESISTOR 330 OHM 1/4W CP	EA
177	16-63-1332	RESISTOR 3K3 1/4W CP	EA

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項次	料品代號	料 品 規 格		單位
176	16-63-1333	RESISTOR 33K 1/4W CP		EA
179	16-63-1334	RESISTOR 330K 1/4W CP		EA
180	16-63-1391	RESISTOR 390 OHM 1/4W CP		EA
181	16-63-1393	RESISTOR 39K 1/4W CP		EA
182	16-63-1472	RESISTOR 4K7 1/4W CP		EA
183	16-63-1473	RESISTOR 47K 1/4W CP		EA
184	16-63-1474	RESISTOR 470K 1/4W CP		EA
185	16-63-1512	RESISTOR 5K1 1/4W CP		EA
186	16-63-1561	RESISTOR 560 OHM 1/4W CP		EA
187	16-63-1562	RESISTOR 5K6 1/4W CP		EA
188	16-63-1563	RESISTOR 56K 1/4W CP		EA
189	16-63-1681	RESISTOR 680 OHM1/4W CP		EA
190	16-63-1682	RESISTOR 6K8 1/4W CP		EA
191	16-63-1750	RESISTOR 75 OHM 1/4W CP		EA
192	16-63-1752	RESISTOR 7K5 1/4W CP		EA
193	16-63-1821	RESISTOR 820 OHM 1/4W CP		EA
194	16-63-1822	RESISTOR 8K2 1/4W CP		EA
195	16-63-1911	RESISTOR 910 OHM 1/4W CP		EA
196	16-63-1912	RESISTOR 9K1 1/4W CP		EA
SUB-TOTAL: (16)				
197	17-05-2479	ELEC CAP 4U7/50V BP		EA
198	17-11-4103	CERAMIC CAP .01U/1KV		EA
199	17-15-2221	CERAMIC CAP 220P/50V		EA
200	17-15-2471	CERAMIC CAP 470P/50V		EA
201	17-15-4104	CERAMIC CAP .1U/50V		EA
202	17-15-4203	CERAMIC CAP .02U/50V		EA
203	17-15-4502	CERAMIC CAP .005U/50V		EA
204	17-15-4153	CERAMIC CAP .0015U/500V		EA
205	17-21-3471	ELEC CAP 470U/10V		EA
206	17-22-3102	ELEC CAP 1000U/16V		EA
207	17-22-3222	ELEC CAP 2200U/16V		EA
208	17-22-3471	ELEC CAP 470U/16V		EA
209	17-23-0682	ELEC CAP 6800UF/25V 105度C		EA
210	17-23-3102	ELEC CAP 1000U/25V		EA
211	17-23-3472	ELEC CAP 4700U/25V		EA
212	17-24-3101	ELEC CAP 100U/35V		EA
213	17-24-3102	ELEC CAP 1000U/35V		EA
214	17-24-3222	ELEC CAP 2200U/35V		EA
215	17-25-0101	ELEC CAP 100U/50V 105		EA
216	17-25-3100	ELEC CAP 10/50V		EA
217	17-26-3479	ELEC CAP 4U7/160V		EA
218	17-28-0101	ELEC CAP 100UF/400V 105C		EA
219	17-28-3478	ELEC CAP .47U/350V		EA
220	17-33-2101	PEI CAP 100/50V	P	EA
221	17-35-2223	PEI CAP .022U/50V	P	EA
222	17-35-2333	PEI CAP .033U/50V	P	EA
223	17-35-2472	PEI CAP .0047U/50V	P	EA
224	17-37-2335	MC 3.3U/250V		EA
225	17-68-2103	DMPE CAP .01U/400V	M	EA

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226	17-68-2683	DEPN CAP .068U/400V	P	EA
227	17-64-2222	MMPP 2200P/1KV METALLIZED	P	EA
228	17-69-3332B	DMPP X-CAP 0.22U/250V AC		EA
229	17-80-3332	DMPP Y-CAP 3300P/300V AC M		EA
230	17-69-3474B	DMPP X-CAP 0.47U/250V AC		EA
231	17-01-3471	ELEC CAP 470U/10V MINI		EA
232	17-02-3470	ELEC CAP 47U/16V MINI		EA
SUB-TOTAL: (17)				
233	18-03-3001	FILTER SIF 5.5MHZ	M	EA
234	18-03-3002	FILTER SIF TRAP 5.5MHZ	M	EA
235	18-03-7065	IFT VIF AFC 38.9MHZ	K	EA
236	18-06-3001	FILTER SAR 36.9MHZ	K	EA
237	18-50-1008	IFT BIAS COIL		EA
SUB-TOTAL: (18)				
238	19-40-2150	CHOKE 15UH		EA
239	19-40-2151	CHOKE 1A 150UH		EA
240	19-40-2181	CHOKE 180UH		EA
241	19-40-2189	CHOKE 1.8UH		EA
242	19-40-2220	CHOKE 22UH	P	EA
243	19-40-2223	CHOKE 22mH		EA
244	19-40-2229	CHOKE 2.2UH		EA
245	19-40-2270	CHOKE 27UH		EA
246	19-40-2271	CHOKE 270UH		EA
247	19-40-2330	CHOKE 33UH		EA
248	19-40-2338	CHOKE .33UH		EA
249	19-40-2470	CHOKE 47UH		EA
250	19-40-2471	CHOKE 470UH		EA
251	19-40-2479	CHOKE 4.7UH		EA
252	19-40-2560	CHOKE 56UH		EA
253	19-40-2680	CHOKE 68UH		EA
254	19-40-2681	CHOKE 680UH		EA
255	19-40-2685	CHOKE 6.8UH		EA
256	19-40-2820	CHOKE 82UH		EA
257	19-40-2828	CHOKE .82UH		EA
258	19-40-3101	CHOKE 100UH		EA
259	19-43-2150	LINEAR 1.5A 15UH		EA
260	19-45-1283	DELAY LINE 2H/PAL 4.43MHZ		EA
261	19-45-1473	LINE FILTER 47MH		EA
262	19-46-4750	CHOKE 4A 75UH		EA
263	19-70-0043	DEGAUSSING COIL (440)		EA
SUB-TOTAL: (19)				
264	21-72-1021	SEMI VR 1K		EA
265	21-72-1039	SEMI VR 10KB SDH METAL		EA
266	21-72-1048	SEMI VR 100K CD		EA
267	21-72-2023	SVR 2KB METAL		EA

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268	21-72-2231	SEMI VR 22K	EA
269	21-72-3012	SEMI VR 300B 8DV 3P	EA
270	21-72-3013	SEMI VR 300B 8DH(METAL)3P	EA
271	21-72-3022	SEMI VR 3K 6D	EA
272	21-72-5023	SEMI VR 5KB 8DV	EA
273	21-72-5024	SEMI VR 5KB	EA
274	21-72-5028	SEMI VR 5KB 6DH	EA
275	21-72-5036	SEMI VR 50KB	EA
276	21-88-1021	SEMI VR 1 KB 8DH (METAL)	EA
SUB-TOTAL: (21)			
277	22-12-0115	SWITCH SL 1P2T 110/220V	EA
278	22-72-0103	SWITCH POWER 2P2T	EA
279	22-81-0103	SWITCH TACT	EA
280	22-82-0214	SWITCH TACT	EA
SUB-TOTAL: (22)			
281	23-01-0004	FUSE HOLDER	EA
282	23-03-3502	JACK MIC 3.5D	EA
283	23-05-4501	JACK DC 4.5D 3A	EA
284	23-05-5001	JACK DC 4.5D 5A	EA
285	23-06-0004	JACK RCA AUDIO (WHITE)	EA
286	23-06-0009	JACK RCA STRA	EA
287	23-06-0010	JACK RCA VIDEO (YELLOW)	EA
288	23-06-0017	JACK RCA BLACK (SW)	EA
289	23-06-0018	JACK RCA YELLOW (SW)	EA
290	23-08-0005	SOCKET CRT JACK	EA
291	23-09-0002	CORD HOLDER	EA
SUB-TOTAL: (23)			
292	24-10-0262	WITH RF PLUG CABLE	EA
293	24-20-2002	HOUSING 2P GY/WH 25CM	EA
294	24-21-2001	WAFER 2P STRAIGHT	EA
295	24-21-4001	WAFER 4P STRAIGHT	EA
296	24-31-4001	WAFER 4P 3.96m/m	EA
297	24-41-2001	WAFER 2P 2.3D PITCH 10mm	EA
298	24-41-4003	WAFER 4P 1.57D 5+12.5mm	EA
299	24-51-1001	PIN 1P 2.3D STRAIGHT	EA
300	24-51-1002	PIN 1P 1.5D STRAIGHT	EA
301	24-51-1301	WAFER 13P	EA
302	24-51-2001	WAFER 2P 2mm STRAIGHT	EA
303	24-51-2002A	WAFER 2P STRAIGHT	EA
304	24-53-4001	WAFER 4P G.S	EA
305	24-56-0101	WAFER 10P	EA
306	24-56-2001	WAFER 2P	EA
307	24-56-6001	STRAIGHT 6P 2mm (MOLEX)	EA
308	24-56-9001	2M/M 9P WAFER	EA
309	24-AA-1421	WAFER 14PIN 2MM (ELCO)	EA

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310	24-H3-1201	HOUSING 12P VCP-450	EA
311	24-H3-1301	HOUSING 13P VCP-450	EA
312	24-H3-1302	HOUSING 13P VCP-450	EA
313	24-H3-2001	HOUSING 2P VCP-450	EA
314	24-H3-6001	HOUSING 6P VCP-450	EA
315	24-L1-1005	1P HOUSING 280mm	EA
316	24-L1-1007	1P HOUSING	EA
317	24-L1-1016	HOUSING 1P 440 m/m (FERRIT	EA
318	24-L1-2001	HOUSING 2P 660m/m	EA
319	24-L1-2007	2P HOUSING TVR-440	EA
320	24-L1-2003	HOUSING 4P (FERRITE RING)	EA
321	24-L1-4004	HOUSING 4P (OURITE RING)	EA
322	24-L1-4005	4P HOUSING DC	EA
323	24-L1-7002	7P HOUSING TVR-440	EA
324	24-R1-2001A	2P HOUSING 500 m/m	EA
325	24-R1-9001	HOUSING 9P 250mm	EA
SUB-TOTAL: (24)			
326	25-03-2021	FUSE T2A/250V 5.2X20 VDE	EA
327	25-03-6321	FUSE 6A3/250V 5.2X20	EA
SUB-TOTAL: (25)			
328	27-15-1120	CERAMIC CAP 12P T	EA
329	27-15-1150	CERAMIC CAP 15P T	EA
330	27-15-1180	CERAMIC CAP 18P T	EA
331	27-15-1220	CERAMIC CAP 22P T	EA
332	27-15-1330	CERAMIC CAP 33P T	EA
333	27-15-1680	CERAMIC CAP 68P T	EA
334	27-15-2101	CERAMIC CAP 100P T	EA
335	27-15-2151	CERAMIC CAP 150P T	EA
336	27-15-2221	CERAMIC CAP 220P T	EA
337	27-15-2331	CERAMIC CAP 330P T	EA
338	27-15-2471	CERAMIC CAP 470P T	EA
339	27-15-2561	CERAMIC CAP 560P T	EA
340	27-15-2681	CERAMIC CAP 680P T	EA
341	27-15-4102	CERAMIC CAP 0.001U T	EA
342	27-15-4103	CERAMIC CAP .01U T	EA
343	27-15-4104	CERAMIC CAP 0.1U T	EA
344	27-15-4202	CERAMIC CAP 0.002U T	EA
345	27-15-4203	CERAMIC CAP 0.020 T	EA
346	27-21-3479	ELEC CAP 4.7U/10V T	EA
347	27-22-3101	ELEC CAP 100U/16V T	EA
348	27-22-3221	ELEC CAP 220U/16V T	EA
349	27-22-3471	ELEC CAP 470/16V T	EA
350	27-23-3100	ELEC CAP 10U/25V T	EA
351	27-23-3108	ELEC CAP 0.1U/25V T	EA
352	27-23-3109	ELEC CAP 1U/25V T	EA
353	27-23-3220	ELEC CAP 22U/25V T	EA
354	27-23-3228	ELEC CAP 0.22U/25V T	EA

項次	料品代號	料品規格	單位
355	27-23-4101	ELEC CAP 100U/25V T	EA
356	27-25-3109	ELEC CAP 100/50V T	EA
357	27-25-3109	ELEC CAP 1U/50V T	EA
358	27-25-3229	ELEC CAP 2.2U/50V T	EA
359	27-25-3478	ELEC CAP 0.47U/50V T	EA
360	27-25-3479	ELEC CAP 4.7U/50V T	EA
361	27-35-2102	POLYESTER CAP .001U T	EA
362	27-35-2103	POLYESTER CAP .010 T	EA
363	27-35-2123	POLYESTER CAP .012U T	EA
364	27-35-2222	POLYESTER CAP .0022U T	EA
365	27-35-2223	POLYESTER CAP .022U T	EA
366	27-35-2332	POLYESTER CAP .0033U T	EA
367	27-35-2333	POLYESTER CAP .033U T	EA
368	27-35-2472	POLYESTER CAP .0047U T	EA
369	27-35-2473	POLYESTER CAP .047U T	EA
370	27-35-2682	POLYESTER CAP .0068U T	EA
371	27-35-2683	POLYESTER CAP .068U T	EA
372	27-35-2822	MC .0082	EA
SUB-TOTAL: (27)			
373	28-13-1030	CHIP CERAMIC CAP 3P/25V	EA
374	28-13-1050	CHIP CERAMIC CAP 5P/25V	EA
375	28-13-1101	CHIP CERAMIC CAP 100P/25VC	EA
376	28-13-1120	CHIP CERAMIC CAP 12P/25V	EA
377	28-13-1121	CHIP CERAMIC CAP 120P/25V	EA
378	28-13-1151	CHIP CERAMIC CAP 150P/25VC	EA
379	28-13-1181	CHIP CERAMIC CAP 180P/25V	EA
380	28-13-1200	CHIP CERAMIC CAP 20P/25V	EA
381	28-13-1220	CHIP CERAMIC CAP 22P/25V C	EA
382	28-13-1221	CHIP CERAMIC CAP 220P/25V	EA
383	28-13-1270	CHIP CERAMIC CAP 27P/25V	EA
384	28-13-1330	CHIP CERAMIC CAP 33P/25V C	EA
385	28-13-1391	CHIP CERAMIC CAP 390P/25V	EA
386	28-13-1470	CHIP CERAMIC CAP 47P/25V C	EA
387	28-13-1471	CHIP CERAMIC CAP 470P/25V	EA
388	28-13-1680	CHIP CERAMIC CAP 68P/25V C	EA
389	28-13-1682	CHIP CERAMIC CAP6800P/25V	EA
390	28-13-1820	CHIP CERAMIC CAP 82P/25V C	EA
391	28-13-2331	CHIP CERAMIC CAP 330P/25VC	EA
392	28-13-4102	CHIP CERAMIC CAP .001U/25V	EA
393	28-13-4103	CHIP CERAMIC CAP .01U/25VC	EA
394	28-13-4104	CHIP CERAMIC CAP 0.1U/25VC	EA
395	28-13-4223	CHIP CERAMIC CAP .022U/25V	EA
396	28-13-4472	CHIP CERAMIC CAP .0047U25VC	EA
397	28-15-1510	CHIP CERAMIC CAP 51P/50V	EA
SUB-TOTAL: (28)			
398	29-32-3001	LED 3D RED	EA
399	29-32-5001	LED 5D RED	EA

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400	29-35-3001	LED 3D GREEN		EA
SUB-TOTAL: (29)				
401	30-01-0350	WIRE UL#26 35/0 BK		EA
402	30-01-1106	WIRE UL#26 10/6 BR		EA
403	30-01-3046	WIRE UL#26 4/6 OR		EA
404	30-01-3100	WIRE UL#26 10/0 OR		EA
405	30-01-3160	WIRE UL#26 16/0 OR		EA
406	30-01-3176	WIRE UL#26 17/6 OR		EA
407	30-01-8086	WIRE UL#26 8/6 GY		EA
408	30-01-8100	WIRE UL#26 10/0 GY		EA
409	30-03-0063	WIRE UL #18 6/3 BK		EA
410	30-06-0203	WIRE AC CABLE (VDE)		EA
411	30-10-0007	BARE WIRE 7.5M		EA
412	30-10-0010	BARE WIRE 10MM		EA
413	30-10-0050	BARE WIRE 5M/M		EA
414	30-10-0070	BARE WIRE 7.5m/m		EA
415	30-10-0075	BARE WIRE 7.5MM		EA
416	30-10-0100	BARE WIRE 10m/m		EA
417	30-10-0120	BARE WIRE 12.5m/m		EA
418	30-10-0125	BARE WIRE 12.5MM		EA
419	30-10-0150	BARE WIRE 15m/m		EA
420	30-10-0175	BARE WIRE 17.5MM		EA
421	30-20-0650	NETTING WIRE (645mm)		EA
SUB-TOTAL: (30)				
422	31-01-0010	綁線		EA
423	31-01-0315	UL TUBE 3D 15 MM		EA
424	31-01-1248	UL TUBE 12 480 MM		EA
425	31-01-8054	UL TUBE 8*540 MM		EA
426	31-02-5015	SHRINK SLEEVE 5D 15mm		EA
427	31-04-0010	NYLON TIE 10CM		EA
SUB-TOTAL: (31)				
428	33-14-1592	BATTERY SUM-4 NO MERCURY		EA
SUB-TOTAL: (33)				
429	34-DS-0304	VCP DECK SVD-508SP PAL	D	EA
SUB-TOTAL: (34)				
430	36-21-1203	DC FAN (KD1206PTS3)	T	EA
SUB-TOTAL: (36)				
431	37-35-1594	SPK 3.5" 16 OHM 1.5W		EA
SUB-TOTAL: (37)				

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432	38-40-0202	AC CORD SAA W/O SOCKET	EA	
SUB-TOTAL: (38)				
433	39-16-0001	TRANSFORMER H-DRIVE	EA	
434	39-40-0069A	SWITCHING XFMR	EA	
SUB-TOTAL: (39)				
435	42-L1-0001	REM.CON.VS36KEY TVR/P440B	EA	
SUB-TOTAL: (42)				
436	43-24-1401	DY 14" LOW IMPEADANCE	EA	1
437	43-74-1402A	FBT 14" (TVR-440 AC/DC)	EA	
SUB-TOTAL: (43)				
438	50-01-3011	LOGO PLT 'TEAC' 440A	EA	
439	50-L1-1122	MODEL PLT 'TEAC' 440A	EA	
SUB-TOTAL: (50)				
440	51-L1-0018	REM.CON.PLT "TEAC" 440A	EA	
441	51-L1-0102	FUN PLT TVR/TVP-440B	EA	
442	51-L1-0202	DECK PLT "TVR-440B"	EA	
443	51-L1-0301	SENSOR PLT TVP-440	EA	
SUB-TOTAL: (51)				
444	58-01-2005	WASHER 4D (M4) (2020)	EA	
445	58-21-1031	ANTENNA FIBER (1920TV)	EA	
446	58-21-1070	FIBER PLT FOR CTV-310/314	EA	
447	58-21-1076	TOP FIBER TVR-440B PTX	EA	
448	58-21-4006	FIBER WASHER 3*8*0.5T	EA	
SUB-TOTAL: (58)				
449	59-02-1007	ADHESIVE SPONGE 612	EA	
450	59-02-1030	ADHESIVE SPONGE 90	EA	
451	59-02-1034	MIC JACK SPONGE 7101	EA	
SUB-TOTAL: (59)				
452	64-01-6013	CRT RUBBER 20*6.5*2	EA	
453	64-01-6014	WEDGE RUBBER 14" 440	EA	
473	69-70-4012	SCREW TPW 4*12 RD+	EA	
474	69-72-4009	SCREW D5X25L	EA	
SUB-TOTAL: (69)				
475	70-01-3056	NUT M3*56	EA	
SUB-TOTAL: (70)				
476	80-01-0002	SN	KG	
SUB-TOTAL: (80)				
477	85-H1-1301	MAIN PCB 248*123*1.6mm V	EA	
478	85-H3-2101A	H/A PCB 123*62*1.6mm V	EA	
479	85-L1-1104	PCB 247*247*1.6m/m	EA	
480	85-L1-2201	KEY PCB 198*40*1.6mm	EA	
481	85-L1-8001A	SW POWER PCB 160*127*1.6mm	EA	
482	85-L1-8003	PCB 50*32*1.6 m/m DC PC	EA	
483	85-L1-9002	FAN PCB 26*26*1.6mm	EA	
484	85-R1-9001	CRT SOCKET PCB75*75*1.6mmC	EA	
SUB-TOTAL: (85)				
485	87-20-1001	SPEAKER BKT (440)	EA	
486	87-22-1201	ANT JACK HOLDER	EA	1

SUB-TOTAL: (83)			
485	87-20-1001	SPEAKER BKT (440)	EA
486	87-33-1301	ANT JACK HOLDER	EA
487	87-78-0334	HEAT SINK 7200	EA
488	87-87-0201	VER. HEAT SINK S109	EA
489	87-87-1045	HEAT SINK (DIODE) S109	EA
490	87-H5-0301	HEAT SINK 600 TR	EA
491	87-H9-0101	SHIELD PLT	EA
492	87-H9-0201	HEAT SINK VCP-450	EA
506	88-L1-0201	B-CAB GM	EA
507	88-L1-0301	SPEAKER COVER TVR/R440 GM	EA
508	88-L1-0403	DOOR TVR-440A "TEAC" GM	EA
509	88-L1-0501	FN-CAB TVR-440	EA
510	88-L1-0601	FUNCTION COVER TVR-440	EA
511	88-L1-0701	VCP-KNOB TVR-440	EA
512	88-L1-0801	LED COVER (S) TVR-440	EA
513	88-L1-0901	LED COVER (R) TVR-440	EA
514	88-L1-1001	LED COVER (L) TVR-440	EA
515	88-L1-1101	POWER KNOB TVR-440	EA
516	88-L1-1201	FUNCTION DOOR TVR-440	EA
SUB-TOTAL: (88)			
517	90-L1-0101	MAIN POWER LBL TVR-440B	EA
518	90-L1-0122	CRT LBL TVR-440A "TEAC"	EA
519	90-L1-1122	TOTAL CARE 440A 'TEAC'	EA
SUB-TOTAL: (90)			
520	91-L1-1122	I/B 'TEAC' 440A	EA
521	91-L1-2122	W/C 440A "TEAC"	EA
SUB-TOTAL: (91)			
522	94-L1-0122	CTN "TEAC" 440A	EA
SUB-TOTAL: (94)			
523	96-L1-0101	POLYFROM TVR-440	EA
SUB-TOTAL: (96)			