

Service Manual

Video Cassette Recorder

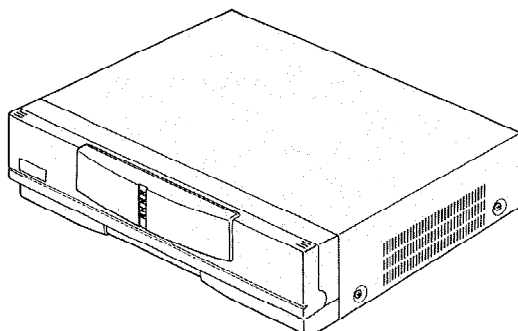
Panasonic **S****VHS** VHS
625 PAL

Hi-Fi HQ

NV-HS1000 EGC
BYP
ECP

K-MECHANISM

Simplified



NV-HS1000

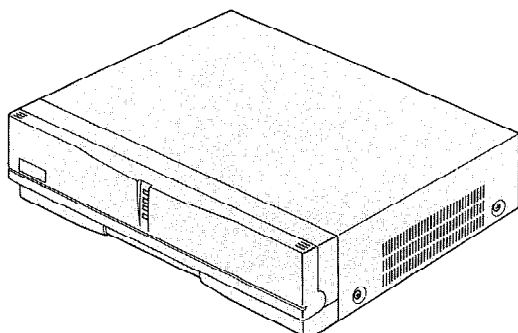
Video Cassette Recorder

Panasonic **S****VHS** VHS
625 PAL

Hi-Fi HQ

NV-HS800 BY
ECC

K-MECHANISM



NV-HS800

Panasonic

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NV-HS1000EGC/BYP/ECB
SPECIFICATIONS

ITEM	SPECIFICATION		ITEM	SPECIFICATION	
POWER	SOURCE: 220~240V AC 50/60Hz		AUDIO	HEAD: 1 stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)	
	CONSUMPTION: 41 watts			INPUT: EURO AV (AV1, AV2) Connectors (21 pin) More than -6dBV (500mV), More than 10kΩ AUDIO IN (AV3) Connector (Phono type) More than -10dBV (316mV), More than 47kΩ MICROPHONE JACK -70dBV	
RECORDING SYSTEM	2 rotary heads, helical scanning system			OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) -6dBV (500mV), Less than 1kΩ AUDIO OUT Connector (Phono type) -8dBV (400mV), Less than 1kΩ HEADPHONE JACK -30dBV, 8Ω	
	PAL			TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)	
TV TUNER SYSTEM	NV-HS1000EGC	VHF I: CI1N1~CIIS10 VHF III: CHE5~CHS41 (PAL/SECAM B) UHF: CH21~CH69 (PAL/SECAM G) 75Ω terminated			
	NV-HS1000BYP	UHF CH21~CH69 (PAL I) 75Ω terminated			
	NV-HS1000ECP	VHF I: CHE2~CHS3 VHF II: CHM1~CHM9 VHF III: CHM10~CHU2 VHF H: CHU3~CHS41 (PAL B) UHF: CH21~CH69 (PAL G) 75Ω terminated			
RF OUT SYSTEM	NV-HS1000EGC	UHF: CH 36±6 (PAL/SECAM G) 70± ⁺² ₋₃ dBμ, 75Ω terminated	TAPE FORMAT	S-VHS, VHS Cassette tape (Tape width 12.7mm)	
	NV-HS1000BYP	UHF: CH 36±6CH (PAL I) 73±3dBμ, 75Ω terminated	TAPE SPEED	SP: 23.39mm/s (PAL), 33.35mm/s (NTSC) LP: 11.695mm/s (PAL), 11.12mm/s (NTSC) Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time: 2.5min. with 180min. type tape	
	NV-HS1000ECP	UHF: CH 36±6CH (PAL G) 70± ⁺² ₋₃ dBμ, 75Ω terminated			
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L'-R' heads) 1 flying erase head		DIMENSIONS	430(W)×120(H)×398(D) mm	
			OPERATING TEMPERATURE	5°C~40°C	
			OPERATING HUMIDITY	35%~80%	
	INPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0Vp-p, 75Ω unbalanced S-VIDEO IN (AV3) Connector Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p, 75Ω unbalanced VIDEO IN (AV3) Connector (Phono type) 1.0Vp-p, 75Ω unbalanced		WEIGHT	NV-HS1000EGC	7.0kg
				NV-HS1000BYP/ECP	7.4kg
	OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0Vp-p, 75Ω unbalanced S-VIDEO OUT Connector Y: 1.0Vp-p, 75Ω unbalanced C: 0.3Vp-p, 75Ω unbalanced VIDEO OUT Connector (Phono type) 1.0Vp-p, 75Ω unbalanced		STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller 1 pc. Audio Cables 1 pc. AC Mains Lead 1 pc. EDIT 5 pin Cable 1 pc. S-VIDEO 4P Cable	

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

NV-HS800BY/ECC
SPECIFICATIONS

ITEM	SPECIFICATION		ITEM	SPECIFICATION			
POWER	SOURCE: 220-240V AC 50/60Hz		AUDIO	HEAD: 1 stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)			
	CONSUMPTION: 37 watts			INPUT: EURO AV (AV1, AV2) Connectors (21 pin) More than -6dBV (500mV), More than 10k Ω AUDIO IN (AV3) Connector (Phono type) More than -10dBV (316mV), More than 47k Ω MICROPHONE JACK -70dBV			
RECORDING SYSTEM	2 rotary heads, helical scanning system			OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) -6dBV (500mV), Less than 1k Ω AUDIO OUT Connector (Phono type) -8dBV (400mV), Less than 1k Ω HEADPHONE JACK -30dBV, 8 Ω			
	PAL				TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)		
TV TUNER SYSTEM	NV-HS800BY	UHF: CH21~CH69 (PAL I) 75 Ω terminated			TAPE FORMAT	S-VHS, VHS Cassette tape (Tape width 12.7mm)	
	NV-HS800ECC	VHF I: CHE2~CHS3 VHF II: CHM1~CHM9 VHF III: CHM10~CHU2 VHF H: CHU3~CHS41 (PAL B) UHF: CH21~CH69 (PAL G) 75 Ω terminated			TAPE SPEED	SP: 23.39mm/s (PAL), 33.35mm/s (NTSC) LP: 11.695mm/s (PAL), 11.12mm/s (NTSC) Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time: 2.5min. with 180min. type tape	
		NV-HS800BY				UHF: CH 36 \pm 6CH (PAL I) 73 \pm 3dB μ , 75 Ω terminated	DIMENSIONS
		NV-HS800ECC		UHF: CH 36 \pm 6CH (PAL G) 70 \pm 3dB μ , 75 Ω terminated		OPERATING TEMPERATURE	
RF OUT SYSTEM				OPERATING HUMIDITY		35%~80%	
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L'-R' heads) 1 flying erase head			WEIGHT	7.2kg		
	INPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0Vp-p, 75 Ω unbalanced S-VIDEO IN (AV3) Connector Y: 1.0Vp-p, 75 Ω unbalanced C: 0.3Vp-p, 75 Ω unbalanced VIDEO IN (AV3) Connector (Phono type) 1.0Vp-p, 75 Ω unbalanced				STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller 1 pc. Audio Cables 1 pc. AC Mains Lead 1 pc. S-VIDEO 4P Cable	
	OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0Vp-p, 75 Ω unbalanced S-VIDEO OUT Connector Y: 1.0Vp-p, 75 Ω unbalanced C: 0.3Vp-p, 75 Ω unbalanced VIDEO OUT Connector (Phono type) 1.0Vp-p, 75 Ω unbalanced						

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

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical informations which will help service personnel to understand and service the S-VHS Video Cassette Recorder NV-HS1000EGC/BYP/ECP, NV-HS800BY/ECC.

Since this model has been developed from NV-HS1000EG/B/EC, NV-HS800B/EC, this manual does not cover the same part which is already described in the service manual for NV-HS1000EG/B/EC, NV-HS800B/EC. Therefore, when servicing, refer to the descriptions in the one for NV-HS1000EG/B/EC, NV-HS800B/EC Order No. VRD9406M119 (HS1000EG), VRD9408M134 (HS1000B/EC), VRD9501M104 (HS800B/EC).

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1. COMPARISON CHART

1-1. COMPARISON CHART for NV-HS1000EGC

The following charts show the difference between the basic model NV-IIS1000EG and the new model NV-HS1000EGC.

Note: IMPORTANT SAFETY NOTICE

Components identified with the mark <I> have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL REPLACEMENT PARTS FOR NV-HS1000EGC					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF NO.	NV-HS1000EG	NV-HS1000EGC	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
5(1)	VXL2250	VML2902	1	OPENER LEVER UNIT	(C)
9(1)	VXL2380	VXL2440	1	CLEANER ARM UNIT	(C)
12(1)	VBS0050	VBS0052	1	FE HEAD	(C)
20(1)	VED0205	VED0217	1	A/C HEAD (1) UNIT	(C)
26(1)	VMA8763	VMA9158	1	HEAD AMP MOUNT ANGLE (L)	(C)
48(1)	VXL2243	VXL2394	1	TAKE-UP TENSION REGULATOR ARM UNIT	(C)
60(1)	VXR0221	VXR0236	1	SUPPLY REEL TABLE UNIT	(C)
61(1)	VXR0222	VXR0237	1	TAKE-UP REEL TABLE UNIT	(C)
62(1)	VXS0113	VXS0241	1	EARTH PLATE	(C)
65(1)	2SB941PSW	2SB1370YD01E	1	POWER TRANSISTOR	(C)
70(1)	VEG1133	VEG1355	1	CYLINDER UNIT	(C)
71(1)	VEH0651	VXP1561	1	UPPER CYLINDER UNIT	(C)
72(1)	VSC3940	VSC4137	1	CYLINDER SHIELD PLATE	(C)
80(1)	-----	VML2680	0 → 1	RELEASE LEVER	(A)
81(1)	-----	VMB2013	0 → 1	RELEASE SPRING	(A)
B5(1)	VHD0553	-----	2 → 0	SCREW	(D)
B8(1)	XTV26+8F	XTV26+8F	2 → 1	SCREW	(C)
B12(1)	-----	XTV26+10F	0 → 1	SCREW	(A)
106(2)	VXP1350	VXP1519	1	ROTOR UNIT	(C)
237(3)	VJH0683	VJH0827	1	RF ANT TERMINAL PLATE	(C)
300(4)	VQT5458	VQT6292	1	OPERATING INSTRUCTIONS (ENGLISH/GERMAN)	(C)
300(4)	VQT5459	VQT6293	1	OPERATING INSTRUCTIONS (ITALIAN)	(C)
300(4)	VQT5460	VQT6294	1	OPERATING INSTRUCTIONS (FRENCH/DUTCH)	(C)
302(4)	VJA0710	VJA0728	1	DIN RF CABLE	(C)

ELECTRICAL REPLACEMENT PARTS FOR NV-HS1000EGC					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF NO.	NV-HS1000EG	NV-HS1000EGC	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
	VEP03A37E	VEP03C01L	1	MAIN C. B. A.	(C)
	VEP07749A	VEP07801B	1	TV DEMODULATOR C. B. A.	(C)
	VEP03A72A	VEP03A72E	1	INPUT/OUTPUT PACK C. B. A.	(C)
	VEP04410E	VEP04447PS	1	HIFI AUDIO PACK C. B. A.	(C)
	VEP05176G	VEP05176L	1	HEAD AMP C. B. A.	(C)
	VEP06926C	VEP06B45A	1	VR C. B. A.	(C)
	VEP07739G	VEP07739X	1	TIMER C. B. A.	(C)
	VEX0126	VEX0235	1	CYLINDER DRIVE C. B. A.	(C)
	ENC17984	-----	1 → 0	RF CONVERTER	(D)
	ENV578D7H6	ENG47210G	1	TUNER	(C)

1-2. COMPARISON CHART for NV-HS1000BYP

The following charts show the difference between the basic model NV-HS1000B and the new model NV-HS1000BYP.

Note: IMPORTANT SAFETY NOTICE

Components identified with the mark < ! > have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL REPLACEMENT PARTS FOR NV-HS1000BYP				(A)=ADDED, (C)=CHANGED, (D)=DELETED	
REF NO.	NV-HS1000B	NV-HS1000BYP	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
5(1)	VXL2250	VML2902	1	OPENER LEVER UNIT	(C)
9(1)	VXL2380	VXL2440	1	CLEANER ARM UNIT	(C)
12(1)	VBS0050	VBS0052	1	FE HEAD	(C)
20(1)	VED0205	VED0217	1	A/C HEAD (1) UNIT	(C)
26(1)	VMA8763	VMA9158	1	HEAD AMP MOUNT ANGLE (L)	(C)
48(1)	VXL2243	VXL2394	1	TAKE-UP TENSION REGULATOR ARM UNIT	(C)
60(1)	VXR0221	VXR0236	1	SUPPLY REEL TABLE UNIT	(C)
61(1)	VXR0222	VXR0237	1	TAKE-UP REEL TABLE UNIT	(C)
62(1)	VXS0113	VXS0241	1	EARTH PLATE	(C)
65(1)	2SB941PSW	2SB1370YD01E	1	POWER TRANSISTOR	(C)
70(1)	VEG1133	VEG1355	1	CYLINDER UNIT	(C)
71(1)	VEH0651	VXP1561	1	UPPER CYLINDER UNIT	(C)
72(1)	VSC3940	VSC4137	1	CYLINDER SHIELD PLATE	(C)
80(1)	-----	VML2680	0 → 1	RELEASE LEVER	(A)
81(1)	-----	VMB2013	0 → 1	RELEASE SPRING	(A)
B5(1)	VHD0553	-----	2 → 0	SCREW	(D)
B8(1)	XIV26+8F	XTV26+8F	2 → 1	SCREW	(C)
B12(1)	-----	XTV26+10F	0 → 1	SCREW	(A)
106(2)	VXP1350	VXP1519	1	ROTOR UNIT	(C)
237(3)	VJH0684	VJH0827	1	RF ANT TERMINAL PLATE	(C)
239(3)	VMP4178	VMP4448		SIDE ANGLE (R)	(C)
240(3)	VMP4179	VMP4449		SIDE ANGLE (L)	(C)
300(4)	VQT5798	VQT6290	1	OPERATING INSTRUCTIONS (ENGLISH)	(C)
302(4)	VJA0376	VJA0710	1	DIN RF CABLE	(C)
317(4)	VP67582	VP68200	1	PACKING	(C)

ELECTRICAL REPLACEMENT PARTS FOR NV-HS1000BYP				(A)=ADDED, (C)=CHANGED, (D)=DELETED	
REF NO.	NV-HS1000B	NV-HS1000BYP	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
	VEP03A37K	VEP03C01P	1	MAIN C. B. A.	(C)
	VEP07680K	VEP07801R	1	TV DEMODULATOR C. B. A.	(C)
	VEP07786A	-----	1 → 0	AFC DEF C. B. A.	(D)
	VEP03A72D	VEP03A72G	1	INPUT/OUTPUT PACK C. B. A.	(C)
	VEP04447E	VEP04447PS	1	HIFI AUDIO PACK C. B. A.	(C)
	VEP07675A	VEP07675G	1	NICAM DECODER PACK C. B. A.	(C)
	-----	VEP07709A	0 → 1	PDC PACK C. B. A.	(A)
	VEP05176G	VEP05176L	1	HEAD AMP C. B. A.	(C)
	VEP06926C	VEP06B45A	1	VR C. B. A.	(C)
	VEP07739Q	VEP07739AC	1	TIMER C. B. A.	(C)
	VEX0126	VEX0235	1	CYLINDER DRIVE C. B. A.	(C)
	ENC17990	-----	1 → 0	RF CONVERTER	(D)
	ENV87837H3Y	ENG47211G	1	TUNER	(C)

1. COMPARISON CHART for NV-HS1000ECP

The following charts show the difference between the basic model NV-HS1000ECP and the new model NV-HS1000ECP.

NOTE: IMPORTANT SAFETY NOTICE

Components identified with the mark (Δ) have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL REPLACEMENT PARTS FOR NV-HS1000ECP					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF. NO.	NV-HS1000ECP	NV-HS1000ECP	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
5(1)	VXL2250	VM 2302	1	OPENER LEVER UNIT	(C)
9(1)	VXL2380	VXL2440	1	CLEANER ARM UNIT	(C)
12(1)	VBS0050	VBS0052	1	FE HEAD	(C)
20(1)	VED0205	VED0217	1	A/C HEAD (1) UNIT	(C)
26(1)	VM49153	VM49158	1	HEAD AMP MOUNT ANGLE (L)	(C)
48(1)	VXL2243	VXL2394	1	TAKE-UP TENSION REGULATOR ARM UNIT	(C)
60(1)	VXR0221	VXR0236	1	SUPPLY REEL TABLE UNIT	(C)
61(1)	VXR0222	VXR0237	1	TAKE-UP REEL TABLE UNIT	(C)
62(1)	VXS0113	VXS0241	1	EARTH PLATE	(C)
66(1)	238941PSW	238941PSW	1	POWER TRANSISTOR	(C)
70(1)	VEG1133	VEG1355	1	CYLINDER UNIT	(C)
71(1)	VEH0651	WXP1561	1	UPPER CYLINDER UNIT	(C)
72(1)	VSC3940	VSC4137	1	CYLINDER SHIELD PLATE	(C)
80(1)	-----	VM 2680	0 → 1	RELEASE LEVER	(C)
81(1)	-----	WME2013	0 → 1	RELEASE SPRING	(C)
85(1)	WFO0553	XTV26+8F	0 → 1	SCREW	(C)
88(1)	XTV26+8F	XTV26+10F	2 → 1	SCREW	(C)
912(1)	-----	XTV26+10F	0 → 1	SCREW	(C)
106(2)	XPI35C	VXP1519	1	ROTOR UNIT	(C)
237(3)	VJH0827	VJH0827	1	RF ANT TERMINAL PLATE	(C)
238(3)	WPA4178	WPA4178	1	SIDE ANGLE (R)	(C)
240(3)	WPA4179	WPA4179	1	SIDE ANGLE (L)	(C)
300(4)	VOT5799	VOT6300	1	OPERATING INSTRUCTIONS (ENGLISH/SPANISH)	(C)
300(4)	VOT5800	VOT6301	1	OPERATING INSTRUCTIONS (FRENCH/ITALY)	(C)
300(4)	VOT5801	VOT6302	1	OPERATING INSTRUCTIONS (SWEDISH/DANISH)	(C)
300(4)	VOT5802	VOT6303	1	OPERATING INSTRUCTIONS (FINNISH)	(C)
302(4)	VJA0376	VJA0770	1	DIN RF CABLE	(C)
317(4)	VPG7533	VPG8201	1	PACKING	(C)

ELECTRICAL REPLACEMENT PARTS FOR NV-HS1000ECP					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF. NO.	NV-HS1000ECP	NV-HS1000ECP	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
1	VFP03437L	VFP03001R	1	MAIN C.B.A.	(C)
1	VFP0757C	VFP0701B	1	TV DEMODULATOR C.B.A.	(C)
1	VFP03472B	VFP03472B	1	INPUT/OUTPUT PACK C.B.A.	(C)
1	VFP04447E	VFP04447PS	1	HIFI AUDIO PACK C.B.A.	(C)
1	-----	VFP07709A	0 → 1	RF C.B.A.	(C)
1	VFP05176S	VFP05176L	1	HEAD AMP C.B.A.	(C)
1	VFP06926C	VFP06946A	1	VR C.B.A.	(C)
1	VFP07739R	VFP07739AO	1	TIMER C.B.A.	(C)
1	VEX0126	VEX0235	1	CYLINDER DRIVE C.B.A.	(C)
1	ENC17584	-----	1 → 0	RF CONVERTER	(C)
1	ENG47210G	ENG47210G	1	TUNER	(C)

1.4. COMPARISON CHART for NV-HS800BY

The following charts show the difference between the basic model NV-HS800B and the new model NV-HS800BY.

NOTE: IMPORTANT SAFETY NOTICE

Components identified with the mark (Δ) have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL REPLACEMENT PARTS FOR NV-HS800BY					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF. NO.	NV-HS800B	NV-HS800BY	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
12(1)	VBS0050	VBS0052	1	FE HEAD	(C)
20(1)	VED0205	VED0217	1	A/C HEAD (1) UNIT	(C)
50(1)	VXR0221	VXR0235	1	SUPPLY REEL TABLE UNIT	(C)
51(1)	VXR0222	VXR0237	1	TAKE-UP REEL TABLE UNIT	(C)
52(1)	VXS0113	VXS0241	1	EARTH PLATE	(C)
55(1)	238941PSW	238941PSW	1	POWER TRANSISTOR	(C)
70(1)	VEG1133	VEG1355	1	CYLINDER UNIT	(C)
71(1)	VEH0651	VXP1361	1	UPPER CYLINDER UNIT	(C)
72(1)	VSC3940	VSC4137	1	CYLINDER SHIELD PLATE	(C)
80(1)	-----	VM 2680	0 → 1	RELEASE LEVER	(C)
81(1)	-----	WME2013	0 → 1	RELEASE SPRING	(C)
85(1)	WFO0553	XTV26+8F	0 → 1	SCREW	(C)
88(1)	XTV26+8F	XTV26+10F	2 → 1	SCREW	(C)
912(1)	-----	XTV26+10F	0 → 1	SCREW	(C)
237(3)	VJH0634	VJH0827	1	RF ANT TERMINAL PLATE	(C)
239(3)	WPA4178	WPA4178	1	SIDE ANGLE (R)	(C)
240(3)	WPA4179	WPA4179	1	SIDE ANGLE (L)	(C)
300(4)	VOT5464	VOT6313	1	OPERATING INSTRUCTIONS (ENGLISH)	(C)
302(4)	VJA0376	VJA0770	1	DIN RF CABLE	(C)
317(4)	VPG7195	VPG8208	1	PACKING	(C)

ELECTRICAL REPLACEMENT PARTS FOR NV-HS800BY					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF. NO.	NV-HS800B	NV-HS800BY	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
1	VFP03437F	VFP03001T	1	MAIN C.B.A.	(C)
1	VFP07690K	VFP07801R	1	TV DEMODULATOR C.B.A.	(C)
1	VFP07766A	-----	1 → 0	AFC DEF C.B.A.	(C)
1	VFP03472D	VFP03472G	1	INPUT/OUTPUT PACK C.B.A.	(C)
1	VFP04447E	VFP04447PS	1	HIFI AUDIO PACK C.B.A.	(C)
1	VFP07675A	VFP07675G	1	NICAM DECODER PACK C.B.A.	(C)
1	VFP05176G	VFP05176L	1	HEAD AMP C.B.A.	(C)
1	VFP06926C	VFP06946A	1	VR C.B.A.	(C)
1	VFP07739J	VFP07735Z	1	TIMER C.B.A.	(C)
1	VEX0125	VEX0235	1	CYLINDER DRIVE C.B.A.	(C)
1	ENC17990	-----	1 → 0	RF CONVERTER	(C)
1	ENG47210G	ENG47210G	1	TUNER	(C)

1-5. COMPARISON CHART for NV-HS800ECC

The following charts show the difference between the basic model NV-HS800EC and the new model NV-HS800ECC.

Note: IMPORTANT SAFETY NOTICE

Components identified with the mark < ! > have the special characteristics for safety. When replacing any of these components, use only the same type.

MECHANICAL REPLACEMENT PARTS FOR NV-HS800ECC					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF NO.	NV-HS800EC	NV-HS800ECC	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
12(1)	VBS0050	VBS0052	1	FE HEAD	(C)
20(1)	VED0205	VED0217	1	A/C HEAD (1) UNIT	(C)
60(1)	VXR0221	VXR0236	1	SUPPLY REEL TABLE UNIT	(C)
61(1)	VXR0222	VXR0237	1	TAKE-UP REEL TABLE UNIT	(C)
62(1)	VXS0113	VXS0241	1	EARTH PLATE	(C)
65(1)	2SB941PSW	2SB1370YD01E	1	POWER TRANSISTOR	(C)
70(1)	VEG1133	VEG1355	1	CYLINDER UNIT	(C)
71(1)	VEH0651	VXP1561	1	UPPER CYLINDER UNIT	(C)
72(1)	VSC3940	VSC4137	1	CYLINDER SHIELD PLATE	(C)
80(1)	-----	VML2680	0 → 1	RELEASE LEVER	(A)
81(1)	-----	VMB2013	0 → 1	RELEASE SPRING	(A)
B5(1)	VHD0553	-----	2 → 0	SCREW	(D)
B8(1)	XTV26+8F	XTV26+8F	2 → 1	SCREW	(C)
B12(1)	-----	XTV26+10F	0 → 1	SCREW	(A)
237(3)	VJH0683	VJH0827	1	RF ANT TERMINAL PLATE	(C)
239(3)	VMP4178	VMP4448		SIDE ANGLE (R)	(C)
240(3)	VMP4179	VMP4449		SIDE ANGLE (L)	(C)
300(4)	VQT5465	VQT6309	1	OPERATING INSTRUCTIONS (ENGLISH/SPANISH)	(C)
300(4)	VQT5466	VQT6310	1	OPERATING INSTRUCTIONS (FRENCH/DUTCH)	(C)
300(4)	VQT5467	VQT6311	1	OPERATING INSTRUCTIONS (SWEDISH/DANISH)	(C)
300(4)	VQT5468	VQT6312	1	OPERATING INSTRUCTIONS (FINNISH)	(C)
302(4)	VJA0376	VJA0710	1	DIN RF CABLE	(C)

ELECTRICAL REPLACEMENT PARTS FOR NV-HS800ECC					(A)=ADDED, (C)=CHANGED, (D)=DELETED
REF NO.	NV-HS800EC	NV-HS800ECC	PCS	PARTS NAME & DESCRIPTIONS	REMARKS
	VEP03A37G	VEP03C01U	1	MAIN C. B. A.	(C)
	VEP07757C	VEP07801B	1	TV DEMODULATOR C. B. A.	(C)
	VEP03A72B	VEP03A72E	1	INPUT/OUTPUT PACK C. B. A.	(C)
	VEP04447E	VEP04447PS	1	HIFI AUDIO PACK C. B. A.	(C)
	VEP05176G	VEP05176L	1	HEAD AMP C. B. A.	(C)
	VEP06926C	VEP06B45A	1	VR C. B. A.	(C)
	VEP07739K	VEP07739AA	1	TIMER C. B. A.	(C)
	VEX0126	VEX0235	1	CYLINDER DRIVE C. B. A.	(C)
	ENC17984	-----	1 → 0	RF CONVERTER	(D)
	ENV578D7H6	ENG47210G	1	TUNER	(C)

2 ELECTRICAL ADJUSTMENT PROCEDURES

The specification of REC CURRENT ADJUSTMENT has been changed.

2-5-9. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
VR3001 (VHS Y) VR3002 (S-VHS Y) VR3003 (C)		SP RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SFEC.	
S-VHS BLANK TAPE	OSCILLO- SCOPE	VHS Y : 14C + -5 (mVp-p) S-VHS Y: 14C + -5 (mVp-p) C : 32 + -2 (mVp-p)	

3. SERVICE INFORMATION
3-1. UPPER CYLINDER
REPLACEMENT

A. UPPER CYLINDER DISASSEMBLY

- 1) Remove the Top Panel.
- 2) Remove the Screw (A) and Earth Plate.
- 3) Lift up the Upper Cylinder.

Note: Do not remove 3 Screws on the Upper Cylinder.

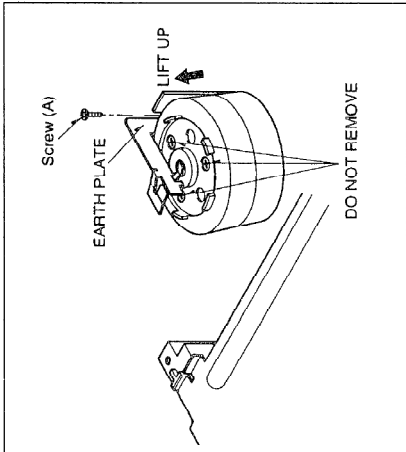


Fig. S1

Do not remove the Rotor Magnet which fixed by 3 screws on the Upper Cylinder.

If it is removed, refer to following method.

- 1) Install the Rotor Magnet so that the hole (C) on the Rotor Magnet fits to the small projection (D) on the bottom of the Upper Cylinder.
- 2) Tighten 3 screws on top of the Upper Cylinder.

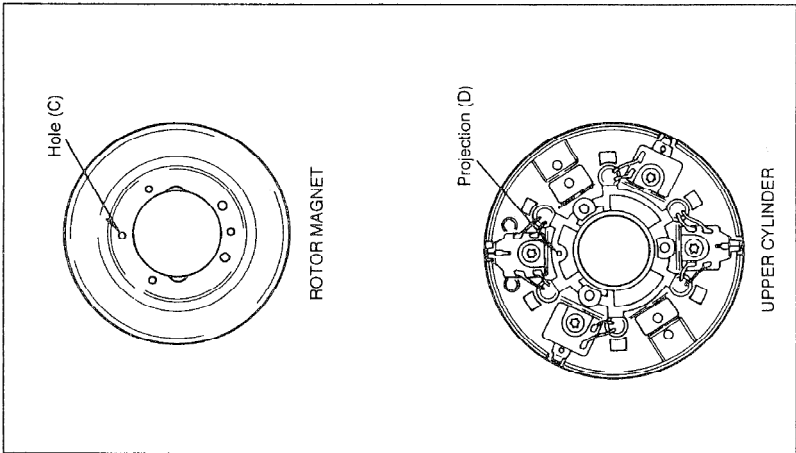


Fig. S2

B. UPPER CYLINDER ASSEMBLY

When reassembling, perform the steps in the reverse order of the DISASSEMBLY METHOD.

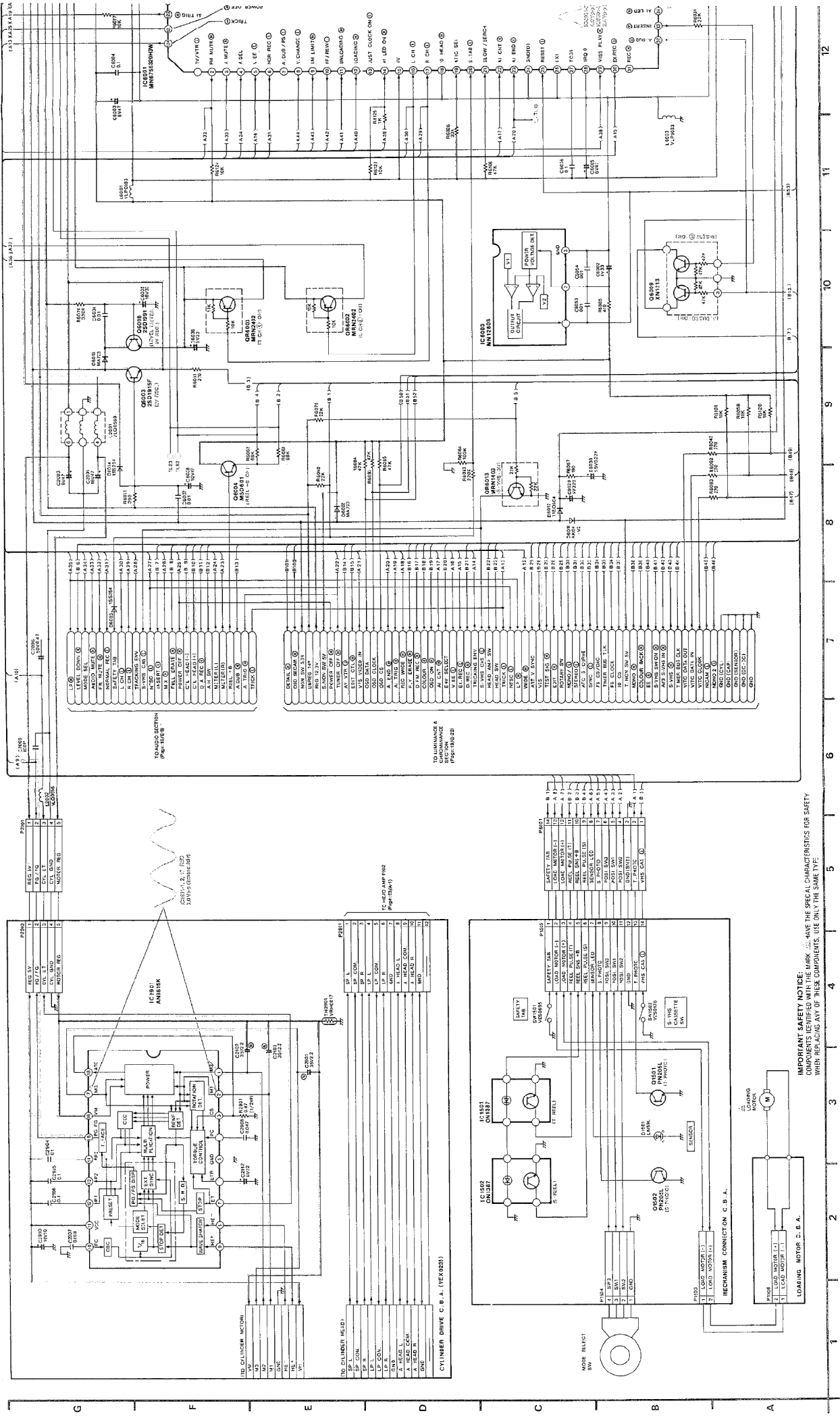
3-2 PARTS CHANGE NOTICE

[Model No.] : NV-HS1000EGC/BYP/EC, NV-HS800BY/EC
[Effective from] : Running Change
[Subject] : Change of MAIN C.B.A.
[Parts List] :

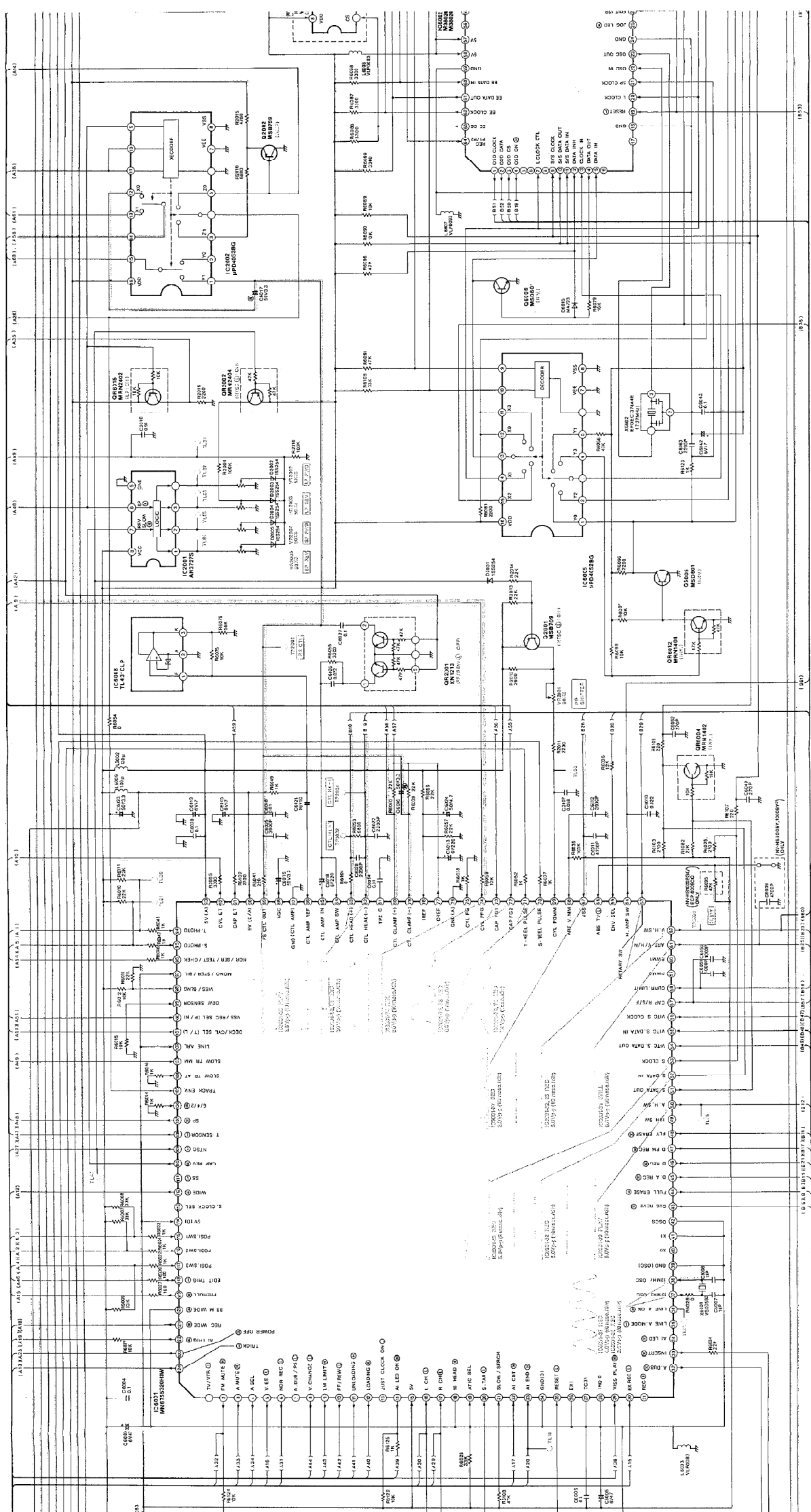
INTERCHANGEABLE Y CODE See the I/C column on the following Part Number List											
A	Parts		Prdctn	Parts		Prdctn	Parts		Prdctn	E	Addition
	Orgnl	New		Orgnl	New		Orgnl	New			
Parts Number List											
Ref. No.	Orgnl	Par. No.	New Part No.	Part Name & Description			I/C	Remarks			
IC301 L312	VEP03C01L		VEP03C01A	MAIN C.B.A.			A	NV-HS1000EGC			
	VEP03A61A		VEP03A61G	LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS1000EGC			
	VEFH20B		VR03390	IC			D				
	ELESE121JA		VLC0407101K	COIL			D				
C3312 R3315	VEP03A62A		VEP03A62D	SUB LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS1000EGC			
	VEP03A90A		VEP03A90B	REC/FF AMP C.B.A.			D				
	ECUM1100DCN		ECUM1100DCN	C. CAPACITOR CH 50V			E				
	ERJ6GMYG681		ERJ6GMYG681	C. RESISTOR CH 1/10W 680			E				
IC301 L312	VEP03C01P		VEP03C01J	MAIN C.B.A.			A	NV-HS1000BYP			
	VEP03A61E		VEP03A61J	LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS1000BYP			
	VEFH20B		VR03390	IC			D				
	ELESE121JA		VLC0407101K	COIL			D				
C3312 R3315	VEP03A62C		VEP03A62F	SUB LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS1000BYP			
	VEP03A90A		VEP03A90B	REC/FF AMP C.B.A.			D				
	ECUM1100DCN		ECUM1100DCN	C. CAPACITOR CH 50V			E				
	ERJ6GMYG681		ERJ6GMYG681	C. RESISTOR CH 1/10W 680			E				
IC301 L312	VEP03C01R		VEP03C01F	MAIN C.B.A.			A	NV-HS1000IECP			
	VEP03A61B		VEP03A61H	LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS1000IECP			
	VEFH20B		VR03390	IC			D				
	ELESE121JA		VLC0407101K	COIL			D				
C3312 R3315	VEP03A62B		VEP03A62E	SUB LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS1000IECP			
	VEP03A90A		VEP03A90B	REC/FF AMP C.B.A.			D				
	ECUM1100DCN		ECUM1100DCN	C. CAPACITOR CH 50V			E				
	ERJ6GMYG681		ERJ6GMYG681	C. RESISTOR CH 1/10W 680			E				
IC301 L312	VEP03C01T		VEP03C01J	MAIN C.B.A.			A	NV-HS800BY			
	VEP03A61F		VEP03A61L	LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS800BY			
	VEFH20B		VR03390	IC			D				
	ELESE121JA		VLC0407101K	COIL			D				
C3312 R3315	VEP03A62C		VEP03A62F	SUB LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS800BY			
	VEP03A90A		VEP03A90B	REC/FF AMP C.B.A.			D				
	ECUM1100DCN		ECUM1100DCN	C. CAPACITOR CH 50V			E				
	ERJ6GMYG681		ERJ6GMYG681	C. RESISTOR CH 1/10W 680			E				
IC301 L312	VEP03C01U		VEP03C01K	MAIN C.B.A.			A	NV-HS800DECC			
	VEP03A61D		VEP03A61K	LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS800DECC			
	VEFH20B		VR03390	IC			D				
	ELESE121JA		VLC0407101K	COIL			D				
C3312 R3315	VEP03A62B		VEP03A62E	SUB LUMINANCE & CHROMINANCE C.B.A.			D	NV-HS800DECC			
	VEP03A90A		VEP03A90B	REC/FF AMP C.B.A.			D				
	ECUM1100DCN		ECUM1100DCN	C. CAPACITOR CH 50V			E				
	ERJ6GMYG681		ERJ6GMYG681	C. RESISTOR CH 1/10W 680			E				

Note: Refer to page 30 to 45.

4. SYSTEM CONTROL & SERVO SECTION IN MAIN & CYLINDER DRIVE SCHEMATIC DIAGRAM



CAPSTAN SERVO PHASE LOOP

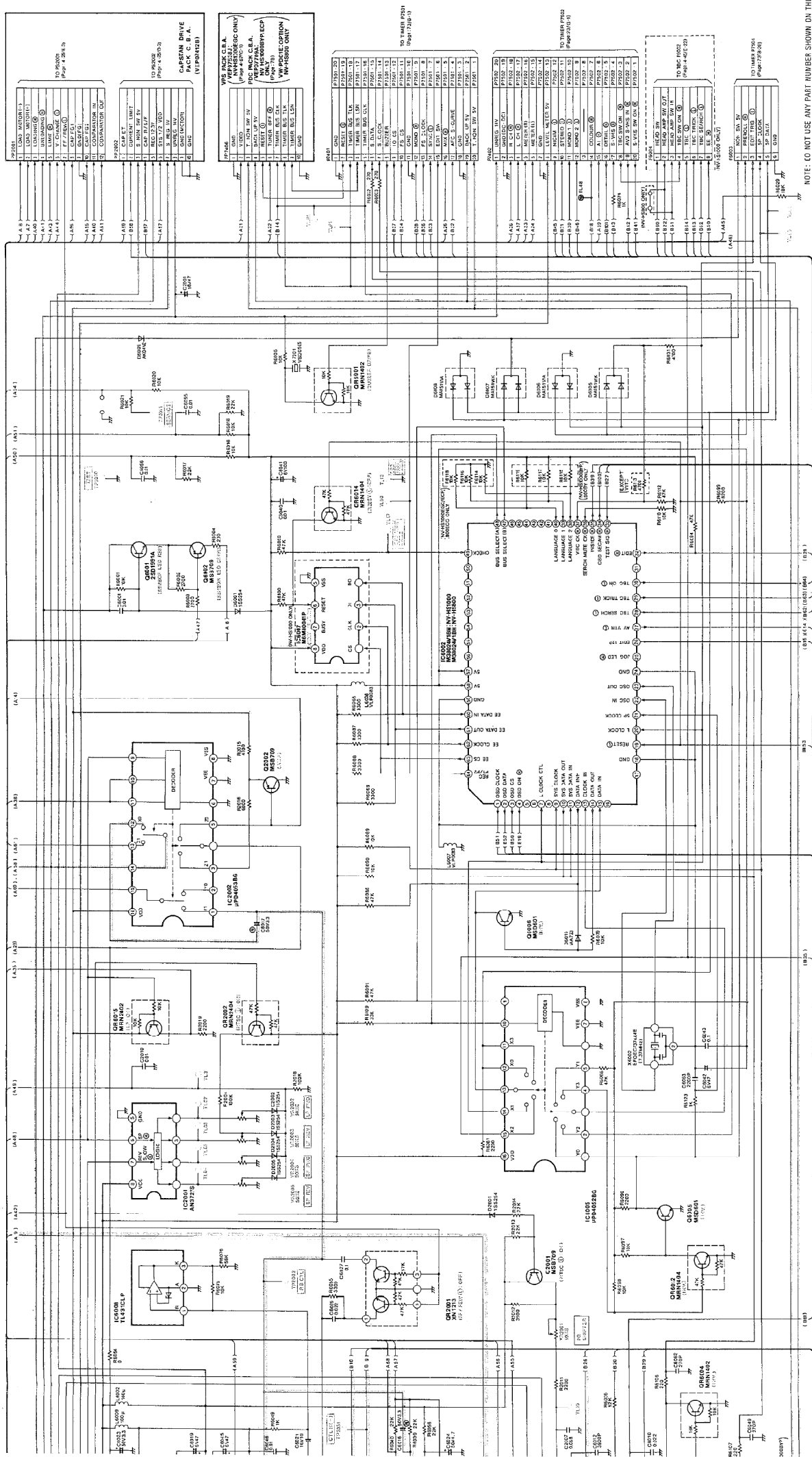


CAPSTAN SERVO SPEED LOOP

CAPSTAN SERVO PHASE LOOP

CYLINDER SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP



NOTE: DO NOT USE ANY PART NUMBERS SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SYSTEM CONTROL & SERVO ICS DC VOLTAGE CHART (SP MODE)

IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	0	5.0	0	0	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0
PLAY	0	5.0	0	0	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0	0
REC	0	4.9	0	0	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0	0
F.F	0	5.0	0	0	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0	0
REW	5.0	0	0	0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IC2002															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	2.3	2.3	1.4	1.4	1.0	0	0	0	5.0	0	0	2.6	2.3	5.2
PLAY	2.3	2.3	2.6	2.6	2.0	0	0	0	0	5.0	0	0	2.5	0	5.2
REC	2.3	2.3	1.1	1.1	0.6	0	0	0	0	5.0	0	0	2.6	2.3	5.2
F.F	2.3	2.3	1.6	1.6	1.0	0	0	0	0	5.0	0	0	2.6	0	5.2
REW	2.5	2.3	1.2	1.2	0.6	0	0	0	0	5.0	0	0	2.6	2.3	5.2
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	14.8	14.8	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.5	3.8
PLAY	14.8	14.8	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.5	3.8	1.2
REC	14.8	14.8	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.5	3.8	1.5
F.F	14.8	14.8	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.5	3.8	1.4
REW	14.5	13.5	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.5	3.8	1.5
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	0	0.1	0	5.0	0.1	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0
PLAY	0	0.1	0	5.0	0.1	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0
REC	0	0.1	0	5.0	0.1	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0
F.F	0	0.1	0	5.0	0.1	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0
REW	0	0.1	0	5.0	0.1	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	21	22	23	24	25	26	27	28	29	30	31	32	33	34
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REC	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
F.F	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REW	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	41	42	43	44	45	46	47	48	49	50	51	52	53	54
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REC	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
F.F	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REW	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	61	62	63	64	65	66	67	68	69	70	71	72	73	74
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REC	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
F.F	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REW	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	81	82	83	84	85	86	87	88	89	90	91	92	93	94
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REC	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
F.F	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REW	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	101	102	103	104	105	106	107	108	109	110	111	112	113	114
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REC	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
F.F	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REW	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
IC2001															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	121	122	123	124	125	126	127	128	129	130	131	132	133	134
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REC	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
F.F	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0
REW	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0

IC2002															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	4.8	4.7	4.6	0	0	0	5.0	0	4.5	0.9	2.9	0	4.8	3.1
PLAY	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7
REC	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7
F.F	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7
REW	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7
IC2002															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	21	22	23	24	25	26	27	28	29	30	31	32	33	34
PLAY	5.0	0.2	2.4	0	0	0	0	5.0	5.0	5.0	5.0	0	0	0	4.5
REC	5.0	0.2	2.4	0	0	0	0	5.0	5.0	5.0	5.0	0	0	0	4.5
F.F	5.0	0.2	2.4	0	0	0	0	5.0	5.0	5.0	5.0	0	0	0	4.5
REW	5.0	0.2	2.4	0	0	0	0	5.0	5.0	5.0	5.0	0	0	0	4.5
IC2002															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	41	42	43	44	45	46	47	48	49	50	51	52	53	54
PLAY	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
REC	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
F.F	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
REW	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
IC2002															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	61	62	63	64	65	66	67	68	69	70	71	72	73	74
PLAY	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
REC	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
F.F	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
REW	5.0	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	5.0
IC2003															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	5.0	5.0	0											
PLAY	5.0	5.0	0												
REC	5.0	5.0	0												
F.F	5.0	5.0	0												
REW	5.0	5.0	0												
IC2005															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	5.0	4.8	4.8	4.3	5.0	0	0	5.0	0	5.0	5.0	4.6	5.0	4.6
PLAY	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6
REC	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6
F.F	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6
REW	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6
IC2007															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	5.0	0.1	5.0	0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PLAY	5.0	5.0	0.1	5.0	0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
REC	5.0	5.0	0.1	5.0	0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
F.F	5.0	5.0	0.1	5.0	0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
REW	5.0	5.0	0.1	5.0	0	0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IC2008															
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MODE	STOP	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PLAY	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
REC	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
F.F	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
REW	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

SYSTEM CONTROL & SERVO TRANSISTORS DC VOLTAGE CHART (SP MODE)

[illegible]

INPUT/OUTPUT CHART FOR IC6002 (M38024V1BK)

PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME
1	O	OSD CLK	20	I	L CLK	37	I	VITC OK (H)
2	O	OSD DATA	21	I	5P CLK	33	I	LANGUAGE 2
3	O	OSD CS	22	I	OSC IN	39	I	LANGUAGE 1
4	O	OSD ON (H)	23	O	OSC OUT	40	I	LANGUAGE 0
5, 6	—	—	24	—	GND	41-46	—	—
7	I	L CLK CNT	25	O	JOG LED (H)	47	O	BUS SELECT (B)
8	—	—	26	O	EDIT 21 P	48	O	BUS SELECT (A)
9	I	SYS CLK	27	O	AV VTR (L)	49	I	CHECK (L)
10	O	SYS OUT	28	O	TBC SEARCH ①	50-56	—	—
11	I	SYS IN	29	O	TBC TRICK ①	57, 58	I	VDD
12	O	DATA INH	30	O	TBC ON ①	59	—	GND
13	I	CLK INPUT	31	—	—	60	I	EE DATA IN
14	O	DATA OUT	32	O	EDIT (H)	61	O	EE DATA OUT
15	I	DATA IN	33	I	TEST SIGNAL (H)	62	O	EE CLK
16, 17	—	—	34	I	OSD SECAM (H)	63	O	EE CS
18	—	GND	35	O	INSIDE (H)	64	I	REC/P1/P2
19	I	RESET (L)	36	I	SERCH MUTE OK (H)			

IC8002																							
REF. NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
STOP	4.8	4.7	4.6	0	0	0	5.0	0	4.5	0.9	0.9	0	4.8	3.1	4.7	0	0	4.9	5.0				
PLAY	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	4.9	5.0				
REC	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	4.9	5.0				
F.F	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	4.9	5.0				
REW	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	4.9	5.0				
IC8002																							
REF. NO.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
MODE	5.0	2.2	2.4	0	0	0	5.0	5.0	5.0	5.0	0	0	0	0	0.2	0	0	4.5	0	0			
STOP	5.0	2.2	2.4	0	0	0	5.0	5.0	5.0	5.0	0	0	0	0	0.2	0	0	4.5	0	0			
PLAY	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0			
REC	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0			
F.F	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0			
REW	5.0	2.2	2.4	0	0	0	0	5.0	5.0	5.0	0	0	0	0.2	0	0	4.5	0	0	0			
IC8002																							
REF. NO.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60			
MODE	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0			
STOP	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0			
PLAY	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0			
REC	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0			
F.F	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0			
REW	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0			
IC8002																							
REF. NO.	61	62	63	54																			
MODE	0.1	5.0	5.0	5.0																			
STOP	0.1	5.0	5.0	5.0																			
PLAY	0.1	5.0	5.0	5.0																			
REC	0.1	5.0	5.0	5.0																			
F.F	0.1	5.0	5.0	5.0																			
REW	0.1	5.0	5.0	5.0																			
IC8003																							
REF. NO.	1	2	3																				
MODE	5.0	5.0	0																				
STOP	5.0	5.0	0																				
PLAY	5.0	5.0	0																				
REC	5.0	5.0	0																				
F.F	5.0	5.0	0																				
REW	5.0	5.0	0																				
IC8005																							
REF. NO.	1	2	3	4	5	3	7	8	9	10	11	12	13	14	15	16							
MODE	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	4.8	5.0	4.8	5.0	4.8							
STOP	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	4.8	5.0	4.7	5.0	4.8							
PLAY	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0							
REC	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0							
F.F	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0							
REW	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0							
IC8007																							
REF. NO.	1	2	3	4	5	6	7	8													IC8008		
MODE	5.0	5.0	0.1	5.0	0	0	0	5.0	5.0												1	2	3
STOP	5.0	5.0	0.1	5.0	0	0	0	5.0	5.0												2.3	6	2.9
PLAY	5.0	5.0	0.1	5.0	0	0	0	5.0	5.0												2.3	6	2.9
REC	5.0	5.0	0.1	5.0	0	0	0	5.0	5.0												2.3	6	2.9
F.F	5.0	5.0	0.1	5.0	0	0	0	5.0	5.0												2.3	6	2.9
REW	5.0	5.0	0.1	5.0	0	0	0	5.0	5.0												2.3	6	2.9

MAIN SIGNAL PATH IN REC MC



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

MAIN SIGNAL PATH IN REC MODE

[illegible]

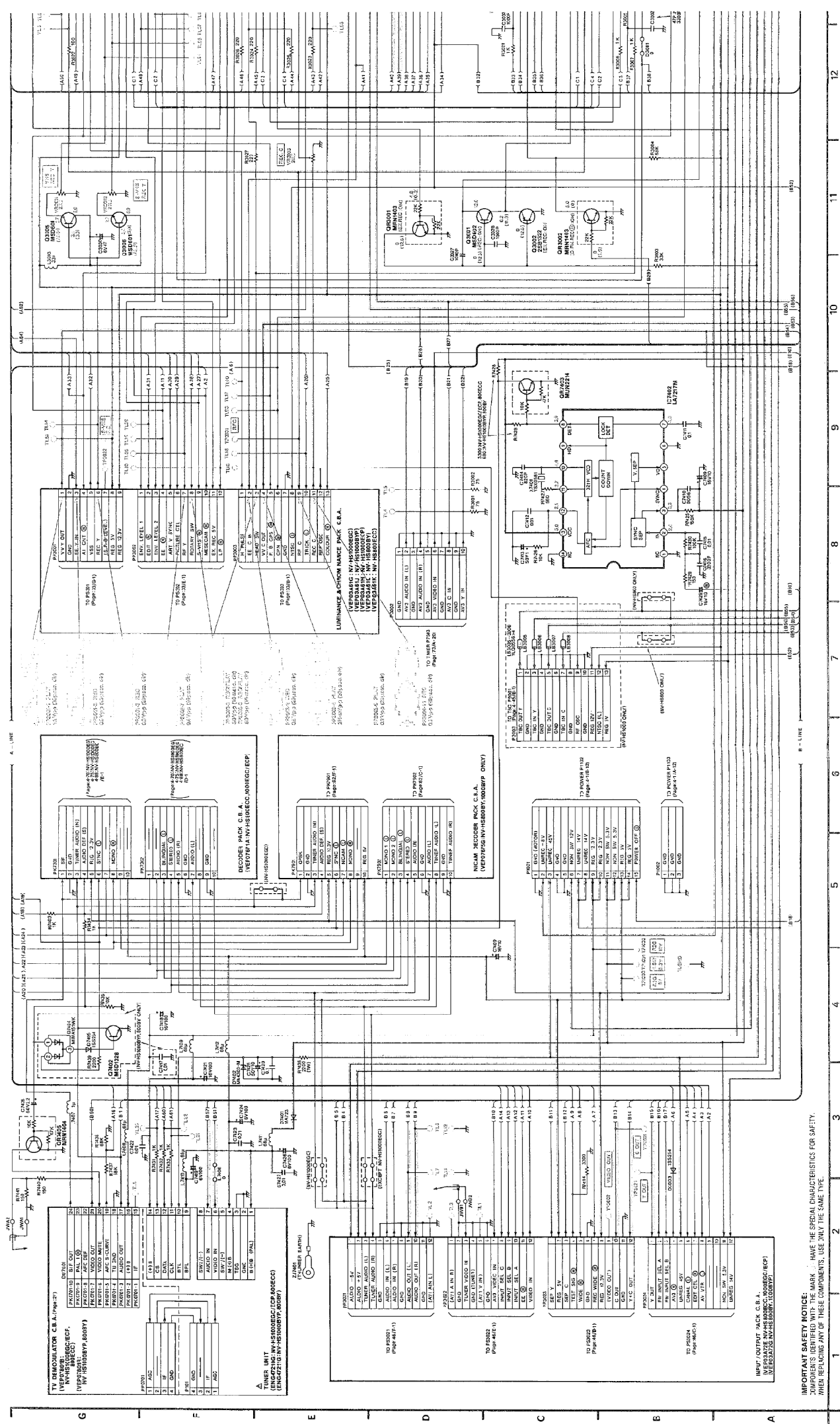
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS () ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)


THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

* LINE IN SIGNAL LEVEL... = 10 dB 1 kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

6 LUMINANCE & CHROMINANCE SECTION IN MAIN SCHEMATIC DIAGRAM



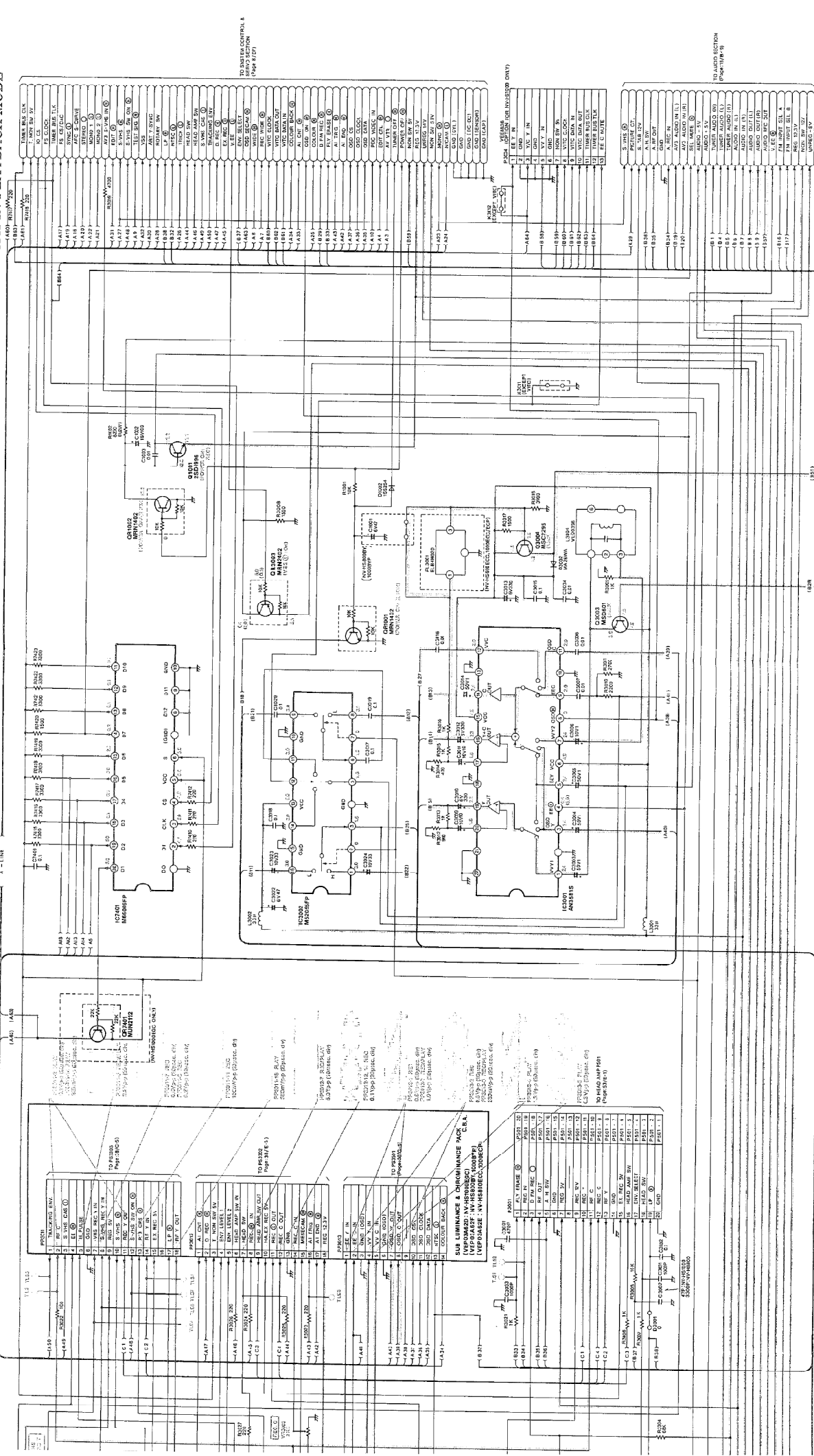
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

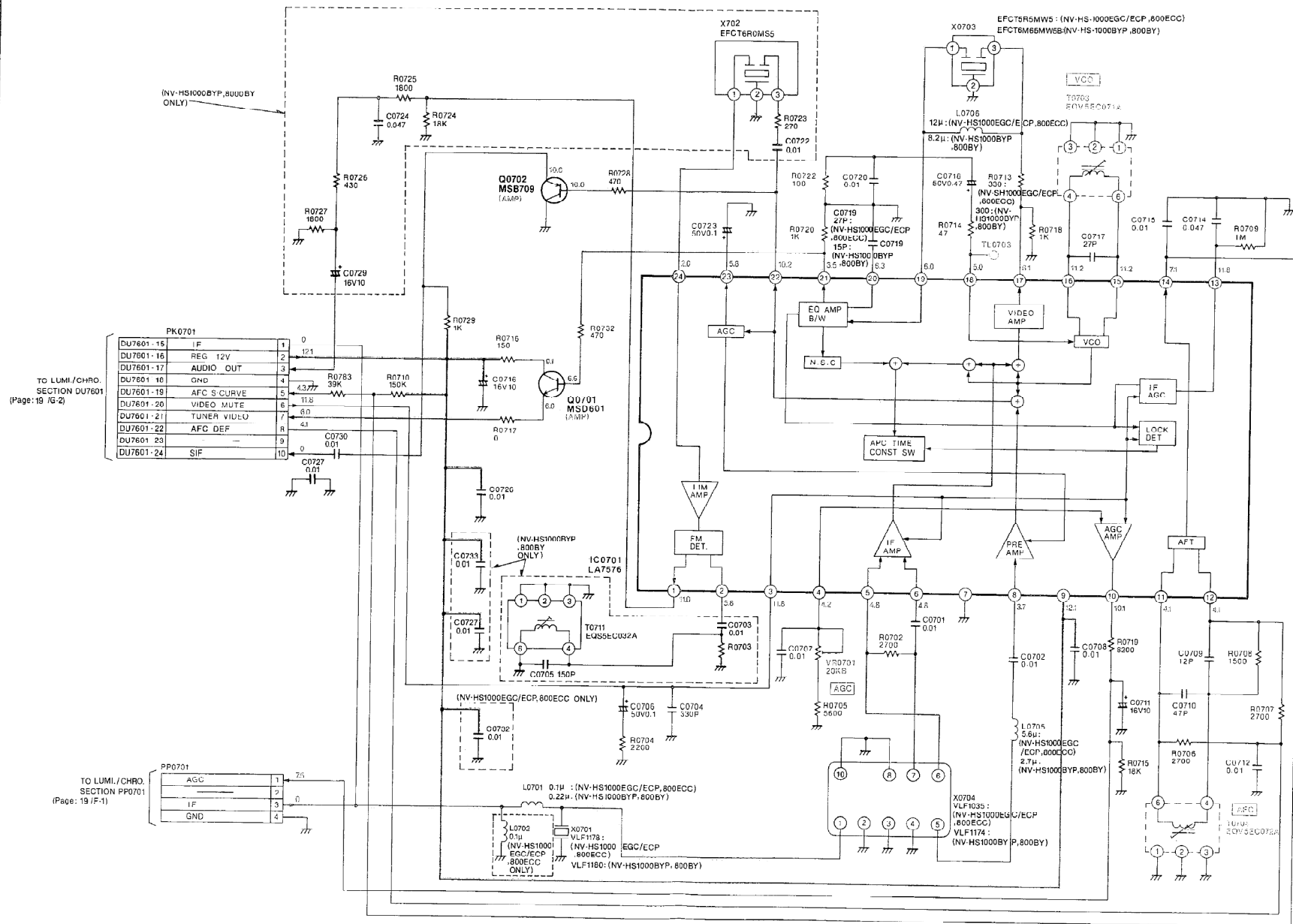
AUDIO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS DIAGRAM FOR ORDERING PARTS. ORDER PARTS BY PART NUMBER WHEN YOU ORDER A PART. PLEASE REFER TO PART LIST.

8. TV DEMODULATOR SCHEMATIC DIAGRAM

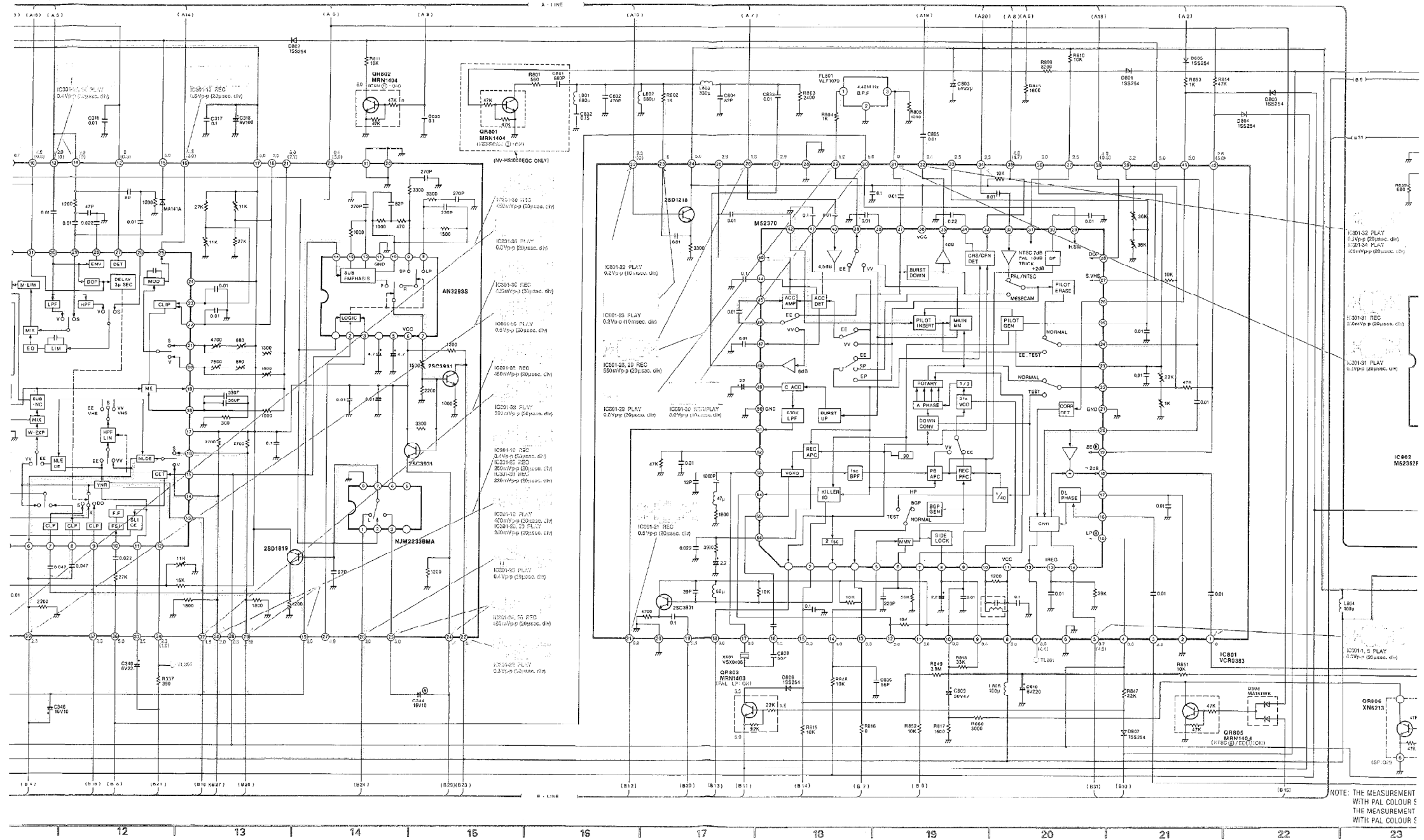


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

The diagram illustrates the internal circuitry of a television receiver, organized into functional blocks and sections. Key components and sections include:

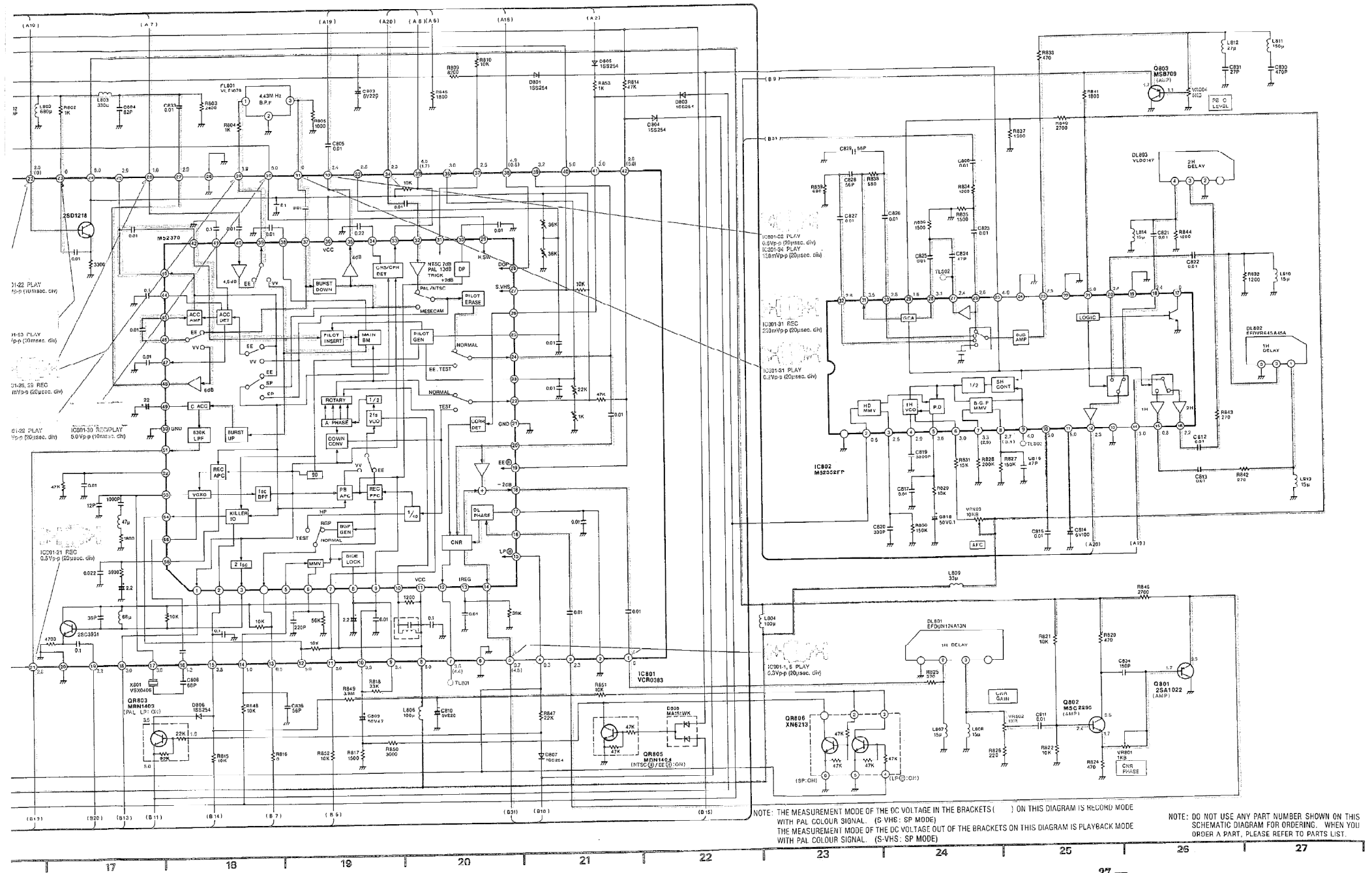
- Pinout Tables:**
 - P5001:** VV Y OUT, CHD, EE Y IN, AI CHT, VHS, REC Y, REC SV, REC 12.5V.
 - P5002:** ENV LEVEL 1, EDIT, ENV LEVEL 2, SE, ART Y STNG, PICTURE CTL, RE, ROTARY SW, 3 VHS, VHS/CLM, EX REC SV, LP.
 - P5003:** M PULSE, DE V IN, HEAD SW, VV C OUT, P.B. LPS, CPH, GND, NTSC, RF C, TRK, REC C, COLOUR.
 - P5004:** M PULSE, DE V IN, HEAD SW, VV C OUT, P.B. LPS, CPH, GND, NTSC, RF C, TRK, REC C, COLOUR.
- Transistors (QR):** QR301, QR302, QR303, QR304, QR305, QR306, QR307, QR308, QR309, QR310, QR311, QR312, QR313, QR314, QR315.
- Integrated Circuits (IC):** IC301, IC302, IC303, IC304, IC305.
- Resistors (R):** R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761, R762, R763, R764, R765, R766, R767, R768, R769, R770, R771, R772, R773, R774, R775, R776, R777, R778, R779, R780, R781, R782, R783, R784, R785, R786, R787, R788, R789, R790, R791, R792, R793, R794, R795, R796, R797, R798, R799, R800, R801, R802, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000.
- Capacitors (C):** C301, C302, C303, C304, C305, C306, C30

MAIN SIGNAL PATH IN REC MODE

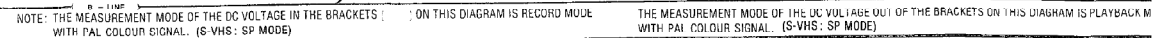


MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

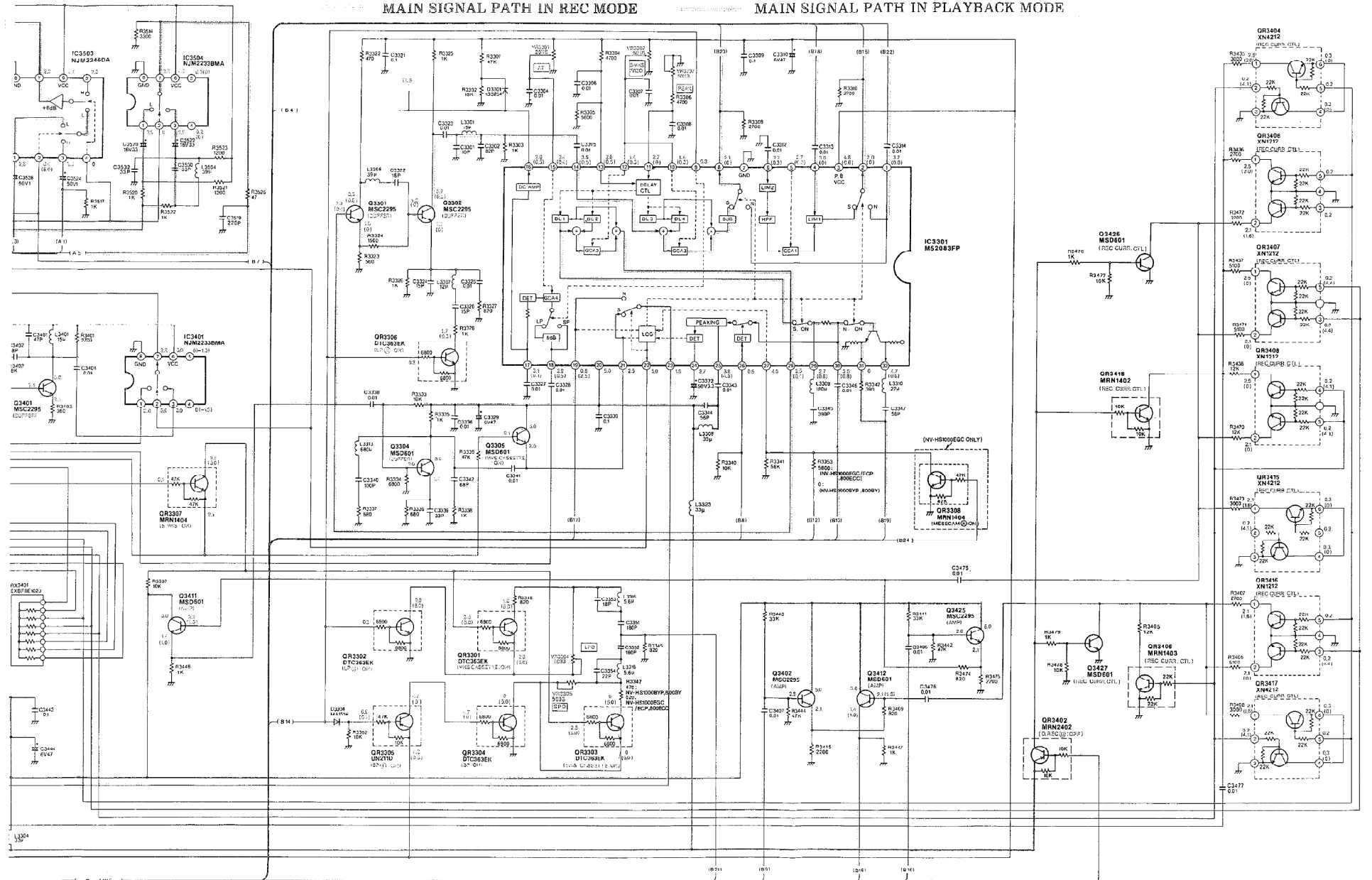






MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

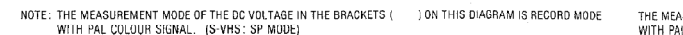


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

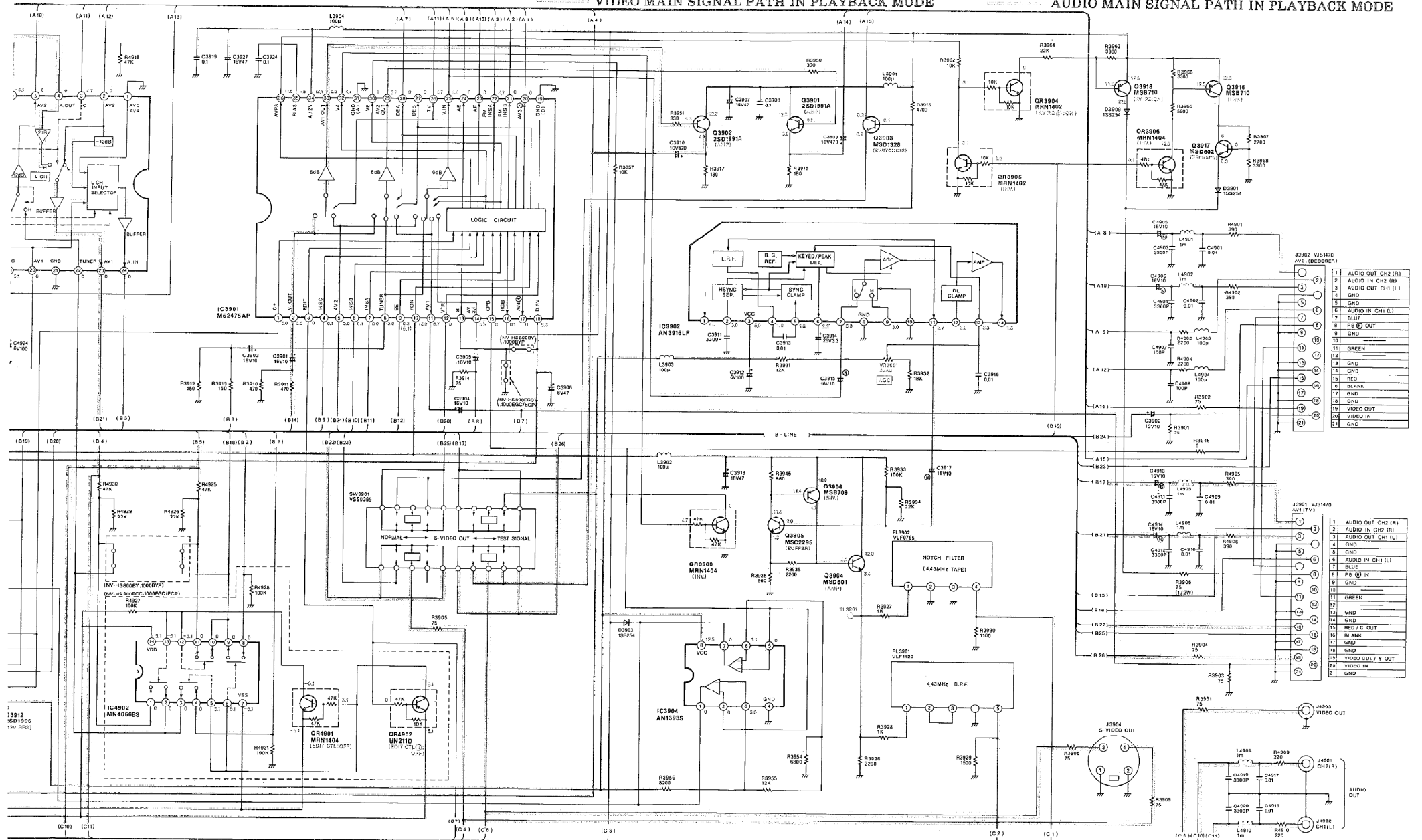
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST

VIDEO MAIN SIGNAL PATH IN REC
VIDEO MAIN SIGNAL PATH IN PLA'

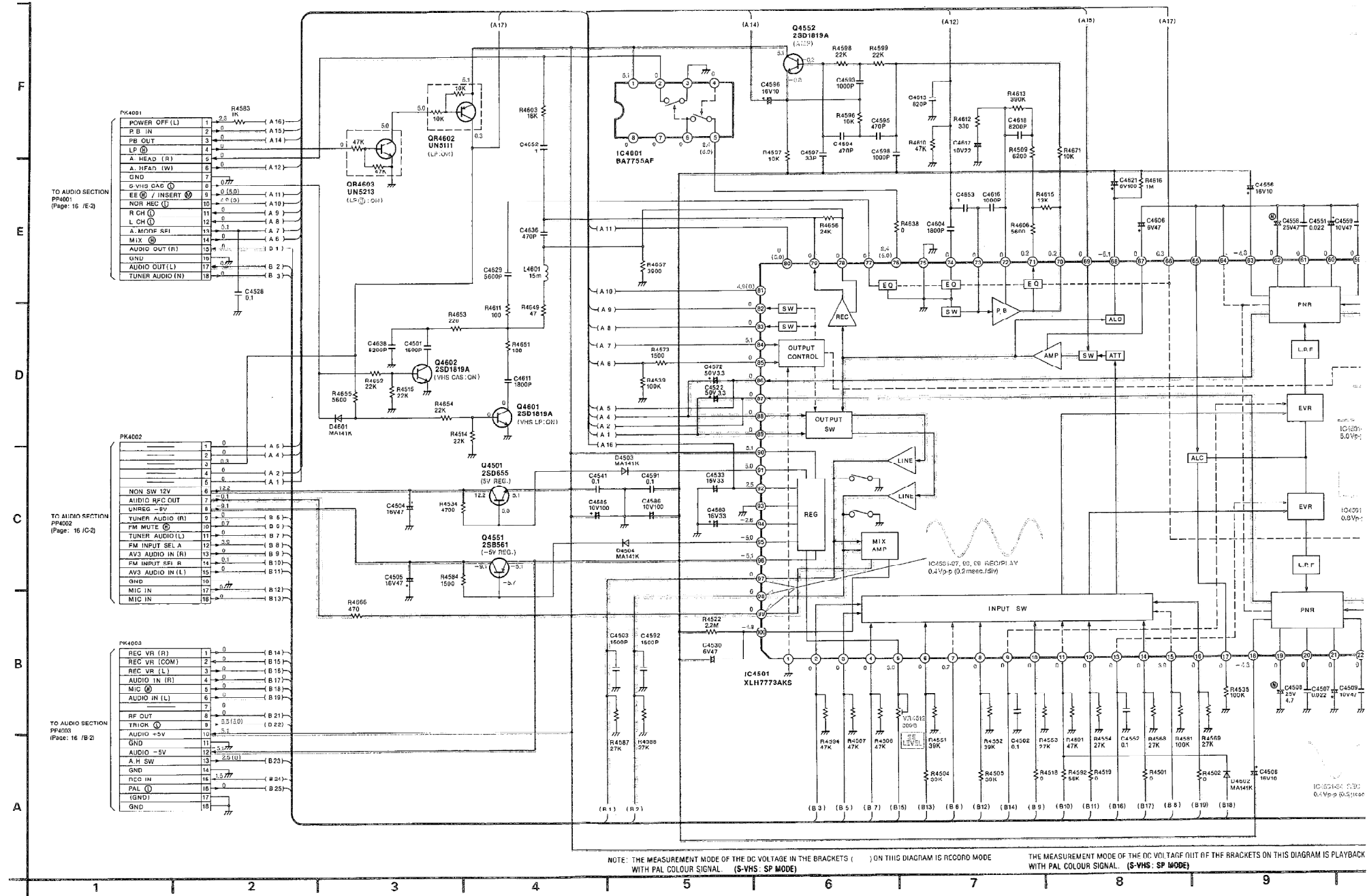


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

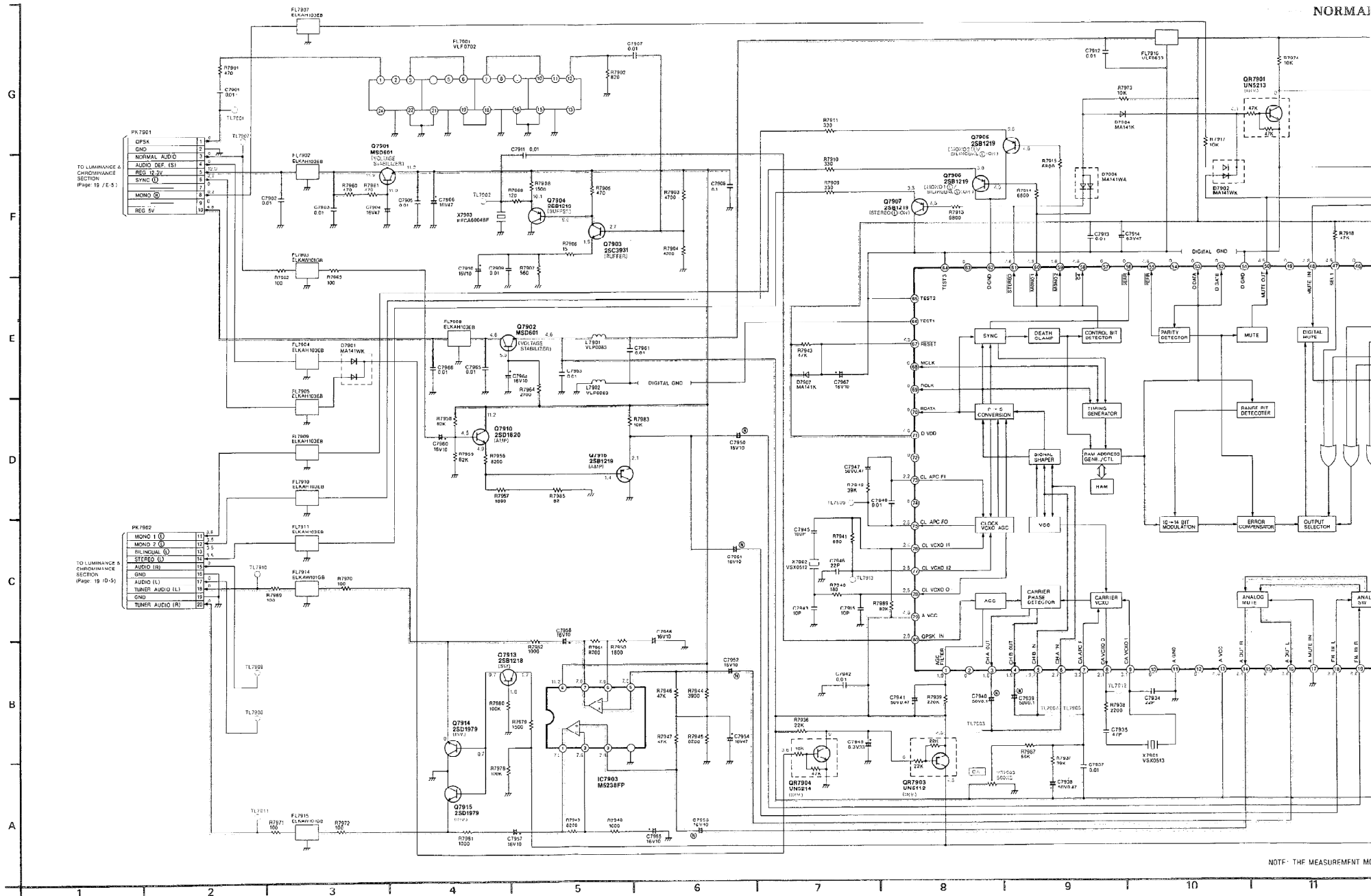


18 HI-FI AUDIO PACK SCHEMATIC DIAGRAM



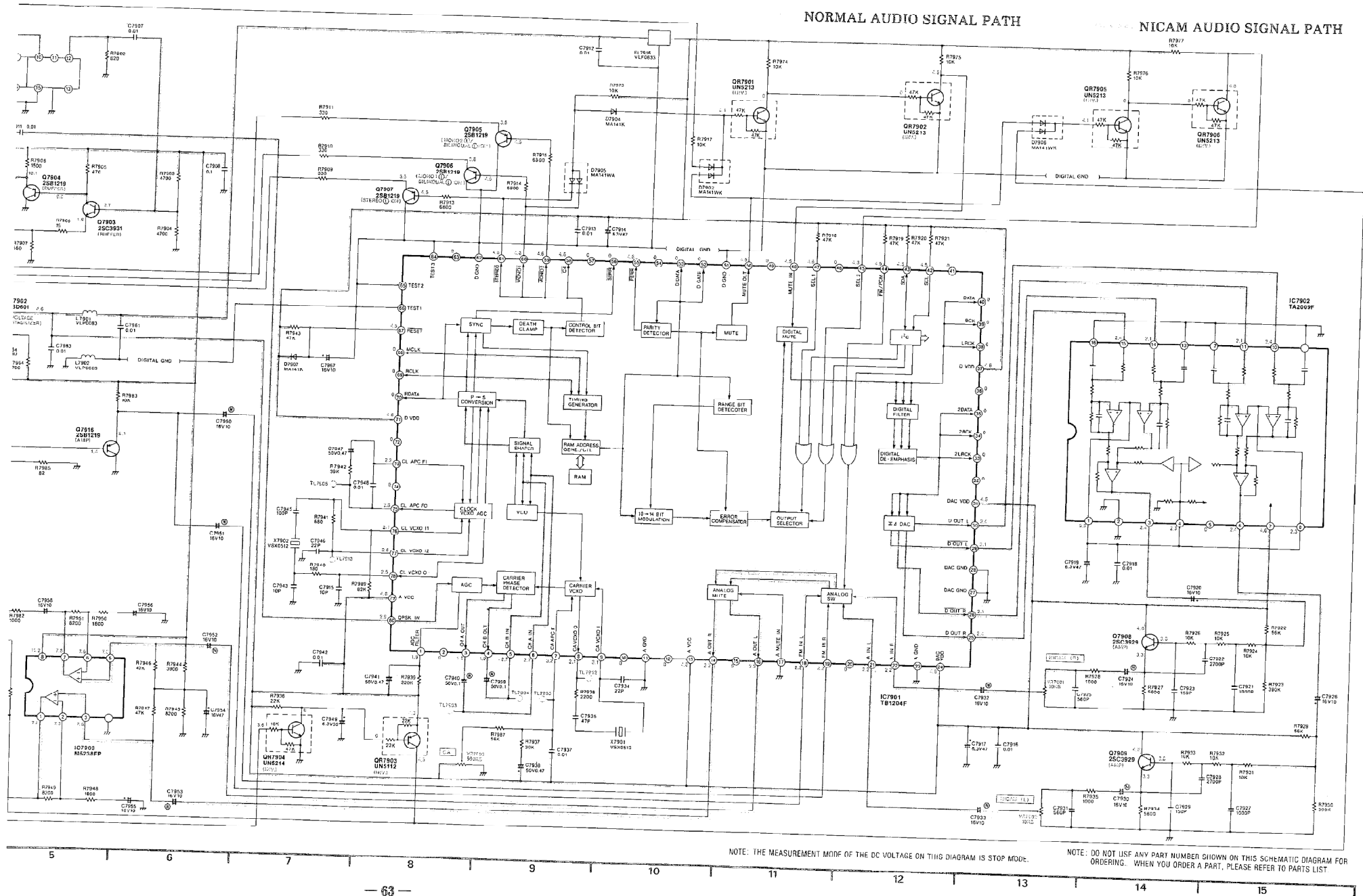
20 NICAM DECODER PACK SCHEMATIC DIAGRAM (NV-HIS1000BYP, 800BY ONLY)

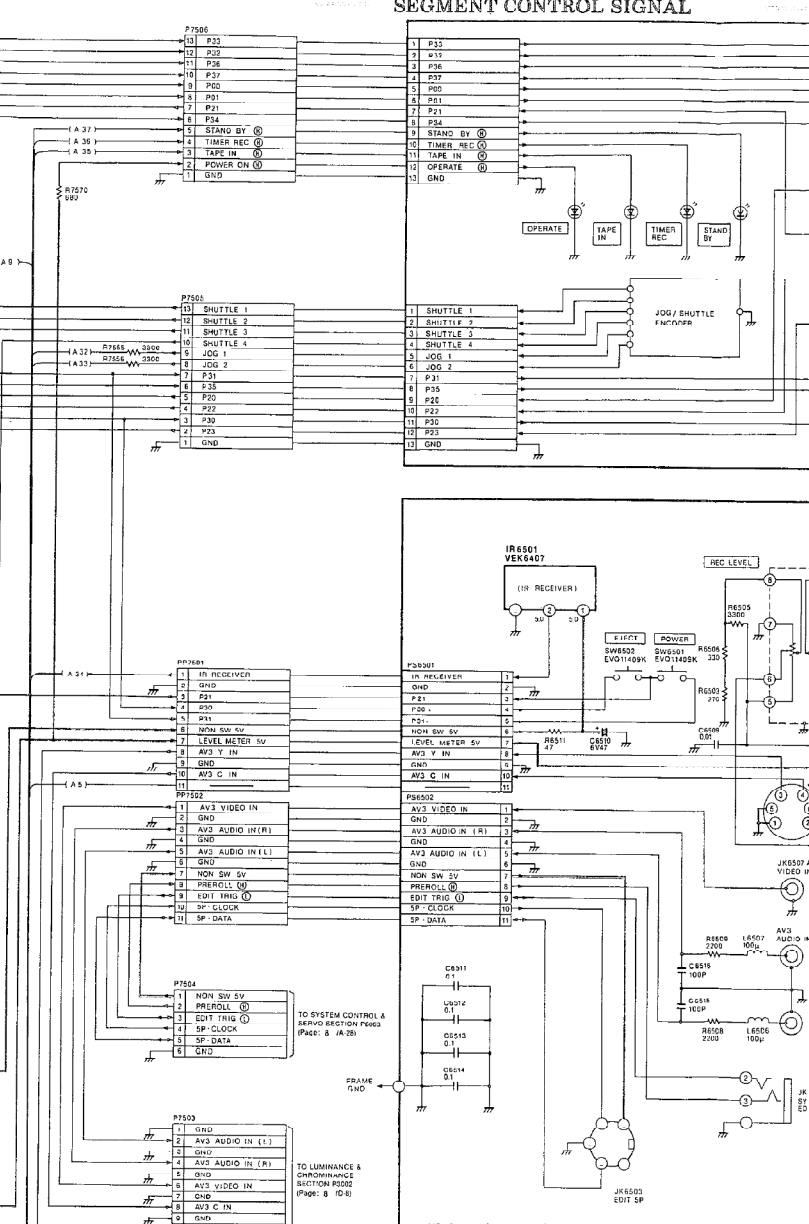
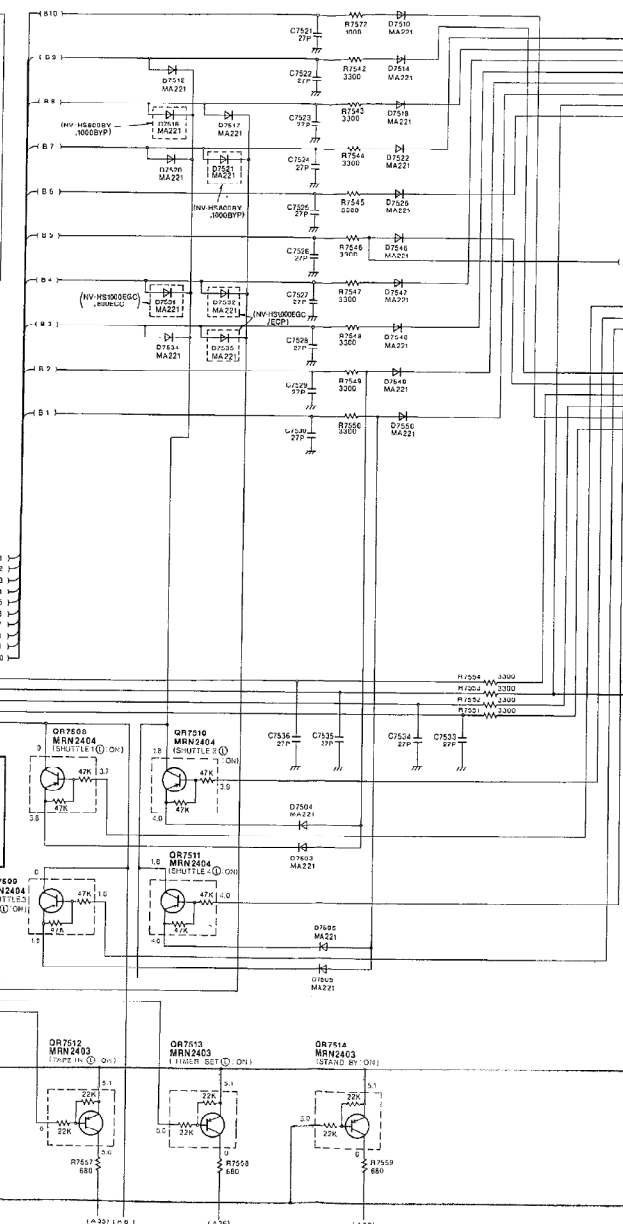
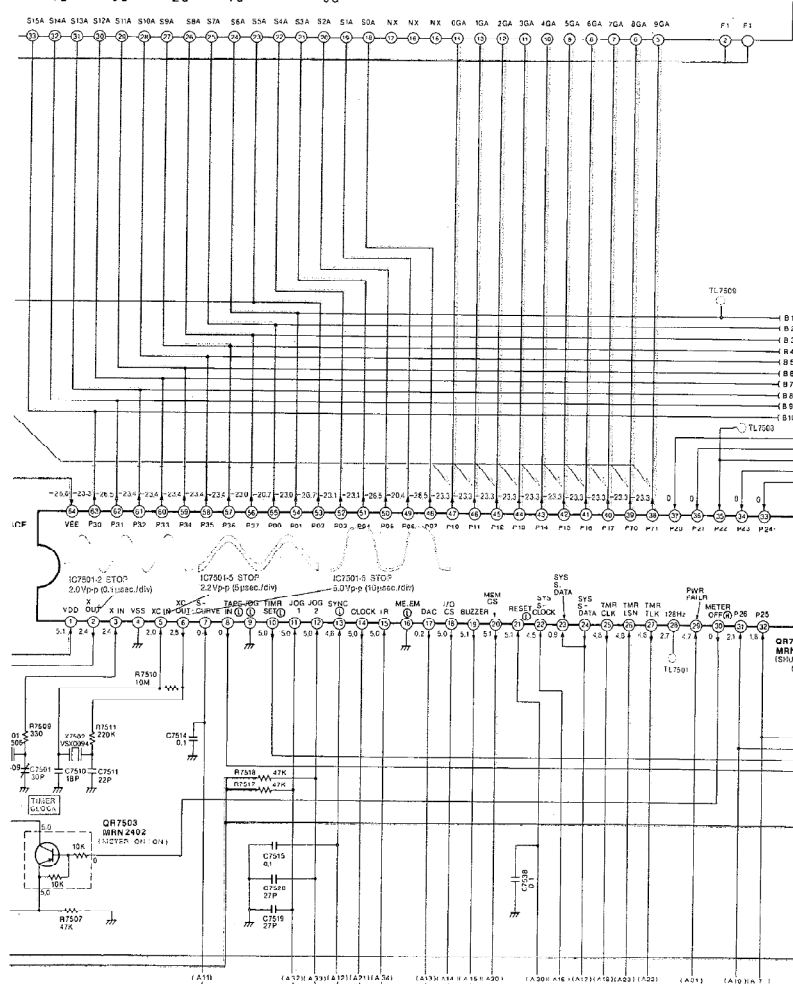
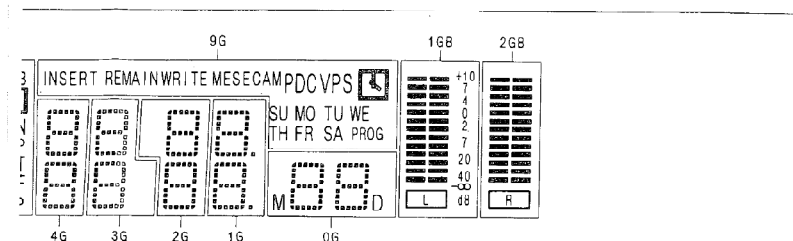
NORMAL



NOTE: THE MEASUREMENT MOD

(NV-HIS1000BYP, 800BY ONLY)





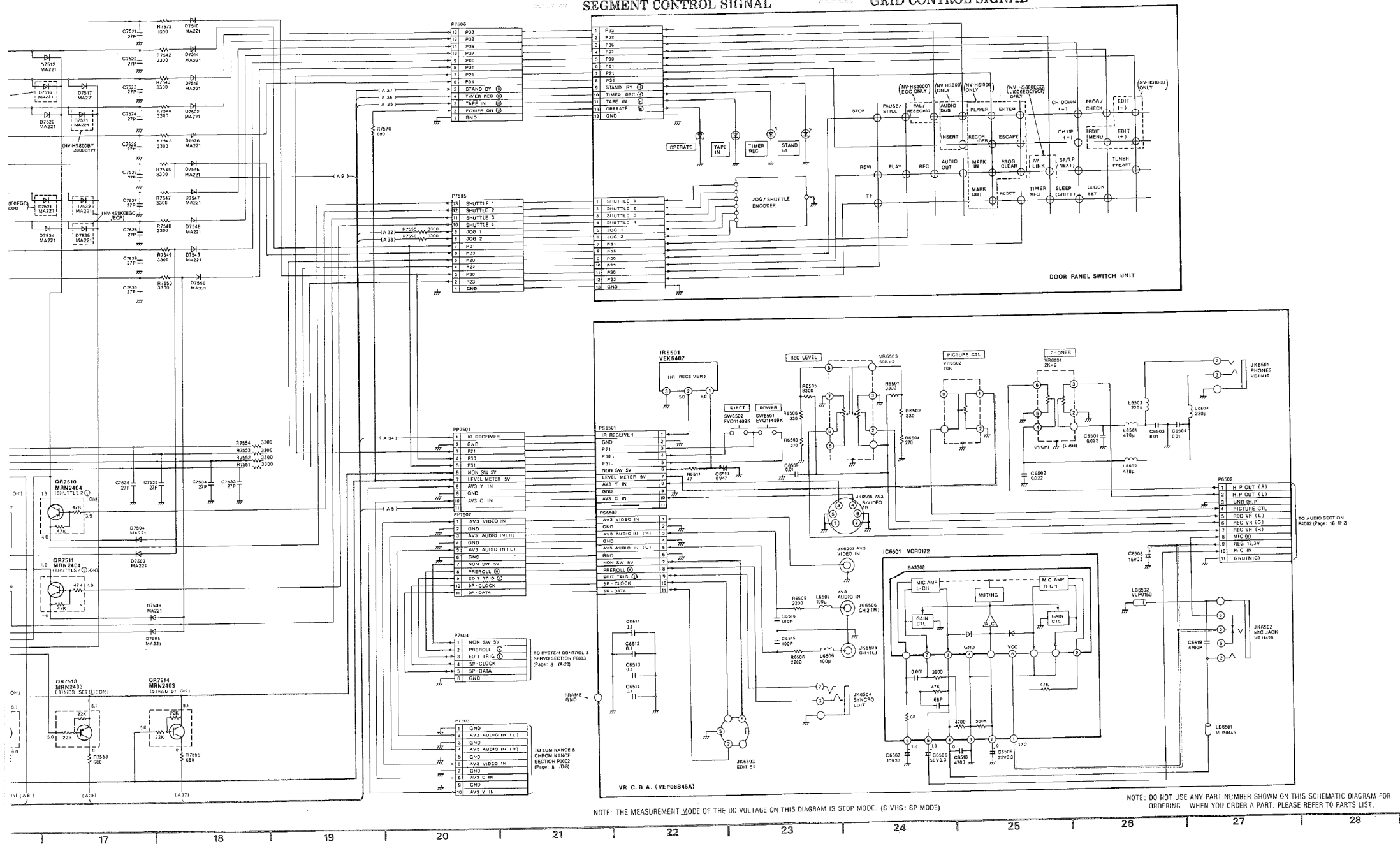
SEGMENT CONTROL SIGNAL

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

SEGMENT CONTROL SIGNAL

GRID CONTROL SIGNAL

TUNE CONTROL SIGNAL



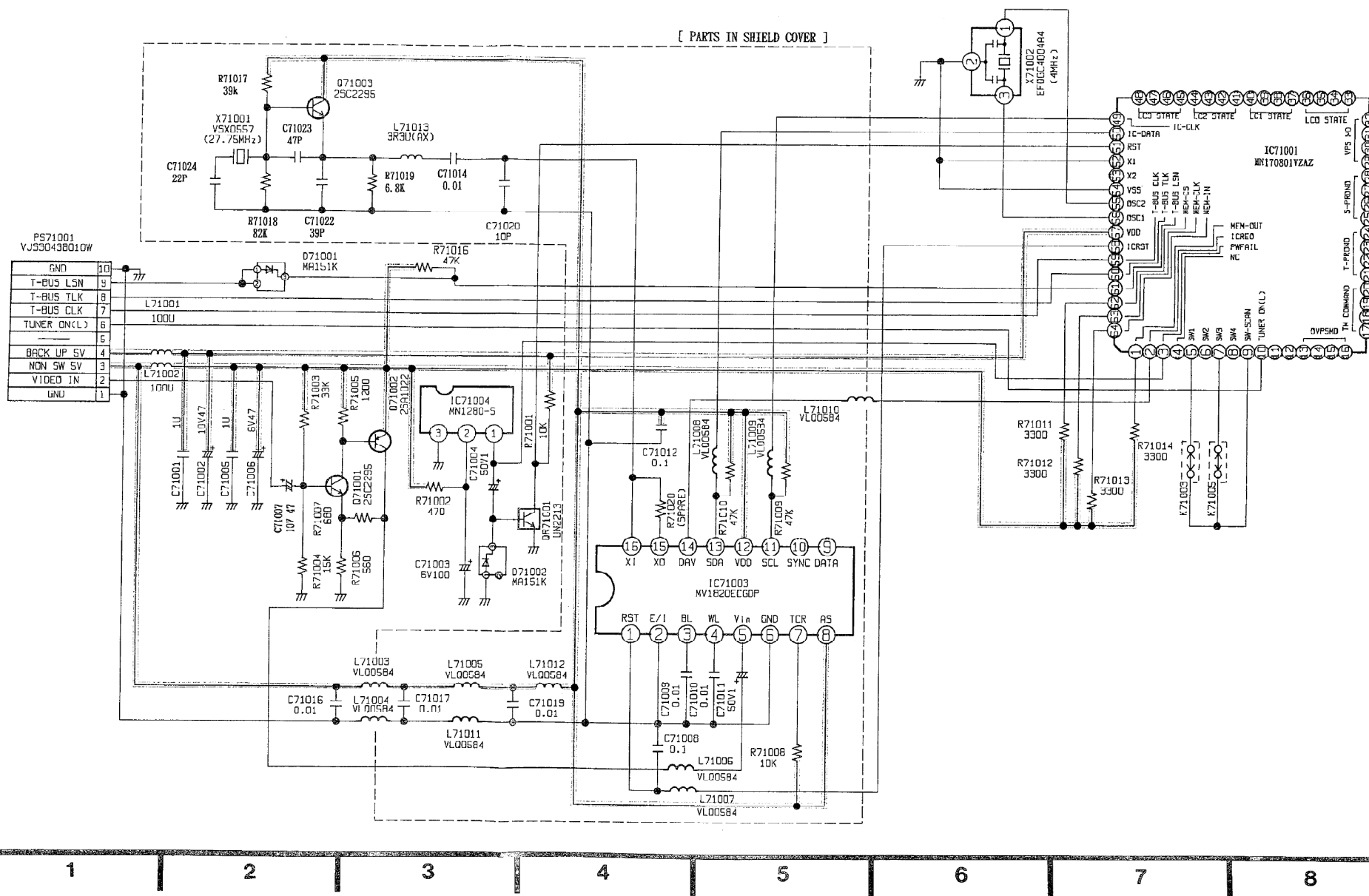
24 PDC PACK SCHEMATIC DIAGRAM (NV-HS1000BYP/ECP ONLY)

TIMER & VM

PDC PACK &
EXPLODED VIEW

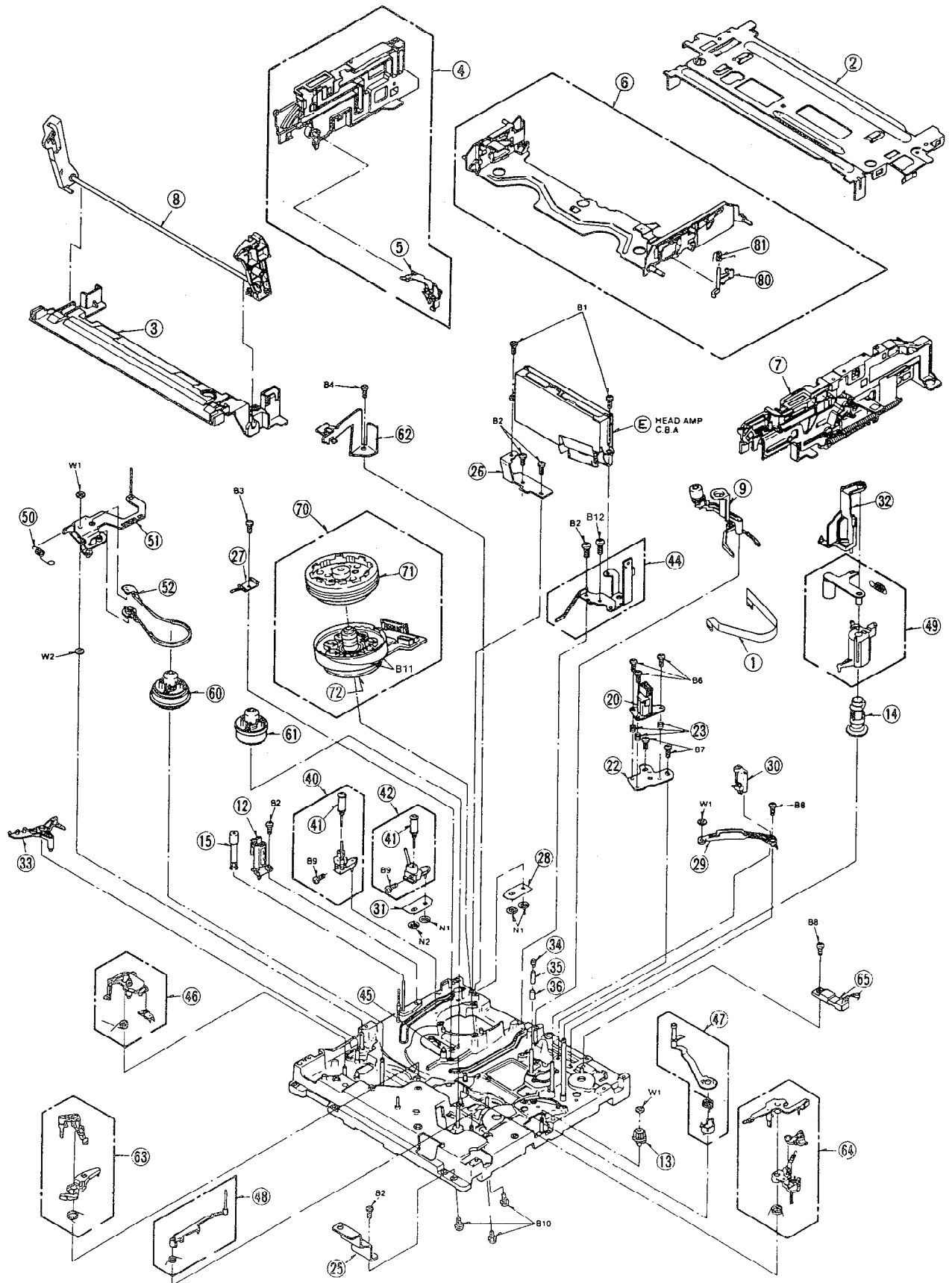
PDC PACK &
EXPLODED VIEW

[PARTS IN SHIELD COVER]



26 EXPLODED VIEW

① CHASSIS PARTS SECTION (1)



27-1. ELECTRICAL REPLACEMENT PARTS FOR NV-HS1000EGC

Note: 1. Be sure to make your orders of replacement parts according to this dist.
2. IMPORTANT SAFETY NOTICE : Components identified with the mark (<) have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified, all resistors are in OHMS, 1/4-1,000 OHMS. All capacitors are in MICRO-FARADS (uF), P=10uF.
4. The P.C. Board units marked with "M" show below the main assembled parts.
5. The marking "M" indicates the retention time is limited for this item.
After use discontinuation of this assembly in production, it will no longer be available.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03C01L	MAIN C.B.A.	1	(RTL)
		INCLUDING THE CAP DRIVE C.B.A. (VEP02412B), LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A61A), SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A62A), REC/RF AMP PACK C.B.A. (VEP03A90A), INPUT/OUTPUT PACK C.B.A. (VEP03A72E), SUB AUDIO PACK C.B.A. (VEP04417B), HI-FI AUDIO PACK C.B.A. (VEP04447PS), VPS C.B.A. (VEP07538J), DECODER PACK C.B.A. (VEP07671A), TV DEMODULATOR PACK C.B.A. (VEP07801B).		
	VEP02412B	CAP DRIVE C.B.A.	1	(RTL)
		INCLUDED IN MAIN C.B.A. (VEP03C01L).		
	VEP03A61A	LUMINANCE & CHROMINANCE PACK C.B.A.	1	(RTL)
		INCLUDED IN MAIN C.B.A. (VEP03C01L).		
	VEP03A62A	SUB LUMINANCE & CHROMINANCE PACK C.B.A.	1	(RTL)
		INCLUDED IN MAIN C.B.A. (VEP03C01L). INCLUDING THE REC/RF AMP PACK C.B.A. (VEP03A90A).		
	VEP03A90A	REC/RF AMP PACK C.B.A.	1	(RTL)
		INCLUDED IN SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A62A).		
	VEP03A72E	INPUT/OUTPUT PACK C.B.A.	1	(RTL)
		INCLUDED IN MAIN C.B.A. (VEP03C01L).		
	VEP04417B	SUB AUDIO PACK C.B.A.	1	(RTL)
		INCLUDED IN MAIN C.B.A. (VEP03C01L).		
	VEP04447PS	HI-FI AUDIO PACK C.B.A.	1	(RTL)
		INCLUDED IN MAIN C.B.A. (VEP03C01L).		
	VEP07538J	VPS C.B.A.	1	(RTL)
		INCLUDED IN MAIN C.B.A. (VEP03C01L).		
	VEP07671A	DECODER PACK C.B.A.	1	(RTL)
		INCLUDED IN MAIN		
	VEP05176L	HEAD AMP C.B.A.	1	(RTL)
	VEP07739X	TIMER C.B.A.	1	(RTL)
	VEP06D45A	VR C.B.A.	1	(RTL)
	VEP03A53A	TBC C.B.A.	1	(RTL)
	VEP01558C	POWER C.B.A.	1	(RTL)(<1>)
	-----	MECHANISM CONNECTION C.B.A.	1	(RTL)
	VEX0235	CYLINDER DRIVE C.B.A.	1	(RTL)
	-----	MOTOR C.B.A.	1	C.B.A. IS INCLUDED IN LOADING MOTOR (1 UNIT (VEMO427)).
	ENG47210G	TUNER	1	(<1>)
F1101	XBA2C16TH15	FUSE	1	(<1>)
	VEP03C01L	MAIN C.B.A.		(RTL)
C301	ECUM1H820JCN	C.CAPACITOR CH 50V	82P	1
C303	ECUM1H180JCN	C.CAPACITOR CH 50V	18P	1
C305	ECUM1H560JCN	C.CAPACITOR CH 50V	56P	1
C306	ECUM1H150JCN	C.CAPACITOR CH 50V	15P	1
C307	ECUM1H470JCN	C.CAPACITOR CH 50V	47P	1
C308	ECUM1H050CCN	C.CAPACITOR CH 50V	5P	1
C309	ECUM1H562KBN	C.CAPACITOR CH 50V	5600P	1
C310	ECUM1H1032FN	C.CAPACITOR CH 50V	0.01U	1
C311	ECUM1H1042FN	C.CAPACITOR CH 50V	0.1U	1
C312	ECEAOJKA470	E.CAPACITOR	6.3V 47U	1
C313	ECEAOJKA101	E.CAPACITOR	6.3V 100U	1
C314	ECUM1H1042FN	C.CAPACITOR CH 50V	0.1U	1
C315,16	ECUM1H1032FN	C.CAPACITOR CH 50V	0.01U	2
C317	ECUM1H1042FN	C.CAPACITOR CH 50V	0.1U	1
C318	ECEAOJKA101	E.CAPACITOR	6.3V 100U	1
C319	ECUM1H080DCN	C.CAPACITOR CH 50V	8P	1
C321,22	ECUM1H680JCN	C.CAPACITOR CH 50V	68P	2
C324	ECEAOJKA101	E.CAPACITOR	6.3V 100U	1
C325,26	ECUM1H1042FN	C.CAPACITOR CH 50V	0.1U	2
C329	ECQV1H334JM	P.CAPACITOR	50V 0.33U	1
C331	ECEA1CKA470	E.CAPACITOR	16V 47U	1
C332,33	ECUM1H1042FN	C.CAPACITOR CH 50V	0.1U	2
C334	ECEA1CKA470	E.CAPACITOR	16V 47U	1
C335	ECEAOJKA220	E.CAPACITOR	6.3V 220U	1
C336	ECEA1ERN4R7	E.CAPACITOR	25V 4.7U	1
C337	ECEA1HKN010	E.CAPACITOR	50V 1U	1
C338	ECEA1CKA100	E.CAPACITOR	16V 10U	1
C339	ECEAOJKA470	E.CAPACITOR	6.3V 47U	1
C340	ECEAOJKA220	E.CAPACITOR	6.3V 22U	1
C341	ECEA1CKA100	E.CAPACITOR	16V 10U	1
C342	ECUM1H1042FN	C.CAPACITOR CH 50V	0.1U	1
C343	ECEA1CKA470	E.CAPACITOR	16V 47U	1
C344	ECEA1CKN100	E.CAPACITOR	16V 10U	1
C345,46	ECEA1CKA100	E.CAPACITOR	16V 10U	2