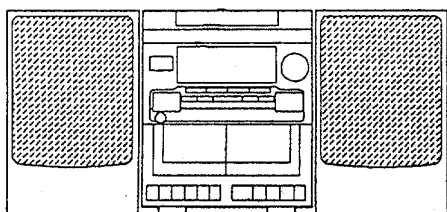


aiwa



NSX-V210 NSX-V420



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : TN-21ZSW-1716
- BASIC CD MECHANISM : 4ZG-1 BDLNM

- TYPE : V <210>,
LH <420>

SUPPLEMENT

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-V210	CX-NV210	SX-NV210	RC - 6AS14
NSX-V420	CX-SNV420	SX-SFNV420	

- This Service Manual contains information about the difference between NSX-V210 (V) and NSX-V210 (EZ) & NSX-V420 (LH) and NSX-V210 (LH). If requiring the other information, see Service Manual of NSX-V210 (EZ), S/M code No. 09-96C-173-6FP & Service Manual of NSX-V210 (LH), S/M code No. 09-96B-168-0FP.
- If requiring information about the CD mechanism, see Service Manual of 4ZG-1, S/M Code No. 09-965-128-10T.

SPECIFICATIONS

<FM Tuner section>		<Compact disc player section>	
Tuning range	V : FM1 (OIRT) 65 MHz to 74 MHz (10 kHz step) FM2 (CCIR) 87.5 MHz to 108 MHz (50 kHz step) LH : 87.5 MHz to 108 MHz wire antenna	Laser	Semiconductor laser ($\lambda = 780$ nm)
Antenna		D-A converter	1 bit dual
<AM / MW Tuner section>		Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)	Harmonic distortion	0.03 % (1 kHz, 0 dB)
Usable sensitivity	V : 350 μ V/m	Wow and flutter	Unmeasurable
Antenna	Loop antenna	<General>	
<LW Tuner section> (V)		Power requirements	V : 230 V AC, 50 Hz LH : 120 V / 220 - 240 V AC
Tuning range	144 KHz to 290 KHz	Power consumption	50 / 60 Hz V : 142W LH : 100W
Usable sensitivity(IHF)	1400 μ V/m	Dimensions of main unit (W X H X D)	260 x 308 x 341 mm
Antenna terminals	Loop antenna	Weight of main unit	5.0 kg
<Amplifier section>		<Speaker system SX-FNV420>	
Power output	V : Rated 20 W + 20 W (6 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference : 24 W + 24 W (6 ohms, T.H.D. 10%, 1 kHz/DIN 45324) DIN MUSIC POWER 54W + 54W LH : 19 W + 19 W (6 ohms, T.H.D. 1%, 1 kHz) *without connecting to the SURROUND SPEAKERS	Cabinet type	V : 2 way, bass reflex (magnetic shielded type) LH : 3 way, bass reflex with surround speaker (magnetic shielded type)
Total harmonic distortion	V : 0.3% (10 W, 1 kHz, 6 ohms, DIN AUDIO) LH : 0.3% (15 W, 1 kHz, 6 ohms, DIN AUDIO)	Speakers	V : Woofer : 120 mm cone type Tweeter : 10 mm ceramic type LH : Woofer : 140 mm (5 $\frac{5}{8}$ in.) cone type Tweeter : 80 mm (3 $\frac{1}{4}$ in.) cone type Super tweeter : 20 mm (7 $\frac{7}{8}$ in.) ceramic type Surround speakers : 80 mm (3 $\frac{1}{4}$ in.) cone type
Inputs	VIDEO/AUX : 400 mV	Impedance	V : 6 ohms LH : Front speaker : 6 ohms Surround speaker : 16 ohms
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more LH : SURROUND SPEAKERS: accept speakers of 16 ohms or more	Output sound pressure level	87 dB/W/m
<Cassette deck section>		Dimensions (W x H x D)	V : 220 x 302 x 238 mm LH : 235 x 302 x 270 mm (9 $\frac{3}{8}$ x 12 x 10 $\frac{3}{4}$ in.)
Track format	4 tracks, 2 channels stereo	Weight	V : 2.5 kg LH : 3.6 kg (7 lbs 15 oz.)
Frequency response	50 Hz ~10000 Hz	• Design and specifications are subject to change without notice.	
Recording system	AC bias		
Heads	Deck 1 : Recording/Playback/ erase head x 1 Deck 2 : playback head x 1		

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NFZ-912-019	IB, V-M<V>	
1	86-NFZ-914-010	IB, LH-M (420)<LH>	
6	87-A90-054-019	ANT, LOOP AM-CON C	

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C516	87-016-073-080		CAP, E 1-50 M FX<LH>
	86-NFZ-701-010	IC, UPD78044HGF-021-3B9		CF801	87-008-261-010		FLTR CF SFE10.7 MA5<V>
				CF802	87-008-261-010		FLTR CF SFE10.7 MA5<V>
				FFE801	A8-6ZA-193-030		6ZA-1 FEV<V>
				J204	87-099-715-010		JACK, PIN 2P<LH>
DIODE				J950	81-754-629-010		CONNECTOR XH 2P (UL)<V>
	87-A40-183-090	DIODE, RK36 (F)<LH>		L806	96-2A1-604-110		IFT, FM IFT 7-6.2<LH>
				PR201	87-026-681-080		PROTECTOR, 5A 125V 491
				PR401	87-A90-246-089		PROTECTOR, 0.25A 60V 491<LH>
				R507	81-583-677-089		RES, NF 120-1/4W J<LH>
MAIN C.B							
C203	87-018-201-080	CAP, TC U 5600P-16 M<LH>		AC1 C.B			
C204	87-018-201-080	CAP, TC U 5600P-16 M<LH>					
C205	87-018-196-080	CAP, TC U 1500P-16 MX UP050<V>					
C206	87-018-196-080	CAP, TC U 1500P-16 MX UP050<V>		PT101	86-NFZ-708-010		PT, 6NF-32 LH-BRA<LH>
C515	87-016-073-080	CAP, E 1-50 M FX<LH>					

MECHANICAL PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
4	86-NFZ-049-019		CABI, REAR VJBNM<V>
4	86-NFZ-054-015		CABI, REAR LHJBK1NM<LH>
6	87-050-079-019		AC CORD ASSY E BLK
9	86-NFZ-009-119		BOX, CASS UR<V>
27	86-NFZ-038-019		CABI, FR E<V>
27	86-NFZ-055-010		CABI, FR K1<LH>
28	87-NF7-096-110		KEY, CASS RN

IC DESCRIPTION

NOTE : For IC, UPD78044HGF-021-3B9<V>, the Pin No, Pin name and Description are same with

IC, UPD78044HGF-020-3B9<EZ>, except Pin No. 12 ~ 16, 22.

Pin No.	Pin Name	I/O	Description
12	IO-BUS1	I/O	BUS1 (CD) input / output.
13	$\overline{O-CCE}$	O	CCE (CD) output.
14	IO-BUS2	I/O	BUS2 (CD) input / output.
15	IO-BUS0	I/O	BUS0 (CD) input / output.
16	IO-BUS3	I/O	BUS3 (CD) input / output.
22	IO-BUCK	O	BUCK (CD) output.

ADJUSTMENT - 1 <TUNER : V>

6. FM VT Check

Settings : • Test point : TP1 (VT)

Method : Set to FM 65.0MHz and check that the test point is more than 1.0V. Then Set to FM 108.0MHz and check that the test point is less than 9.5V.

13. FM Tracking Check

Settings : • Test point : TP8, TP9

Method : Set to FM 98.0MHz and FM 70.0MHz and check that the test point is $1 \pm 6\text{dB}$ (98.0MHz) and $5 \pm 6\text{dB}$ (70.0MHz).

14. DC Balance / Mono Distortion Adjustment

Settings : • Test point : TP3, TP4

- Adjustment location : L741
- Input level : 54dB

Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 0.04\text{V}$.

Next, check that the distortion is less than 1.3%.

PRACTICAL SERVICE FIGURE <V>

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : $10\text{dB} \pm 6\text{dB}$ [at 65.0MHz]
 (THD 3%) $4\text{dB} \pm 6\text{dB}$ [at 70.0MHz]
 $5\text{dB} \pm 6\text{dB}$ [at 74.0MHz]
 $2\text{dB} \pm 6\text{dB}$ [at 87.5MHz]
 $1\text{dB} \pm 6\text{dB}$ [at 98.0MHz]
 $1\text{dB} + 8/-10\text{dB}$ [at 108.0MHz]

S/N 50 Quieting sensitivity :

Less than 35dB
 [at 87.5 / 98.0 / 108.0MHz]

Stereo separation : More than 28dB
 [at 98.0MHz]

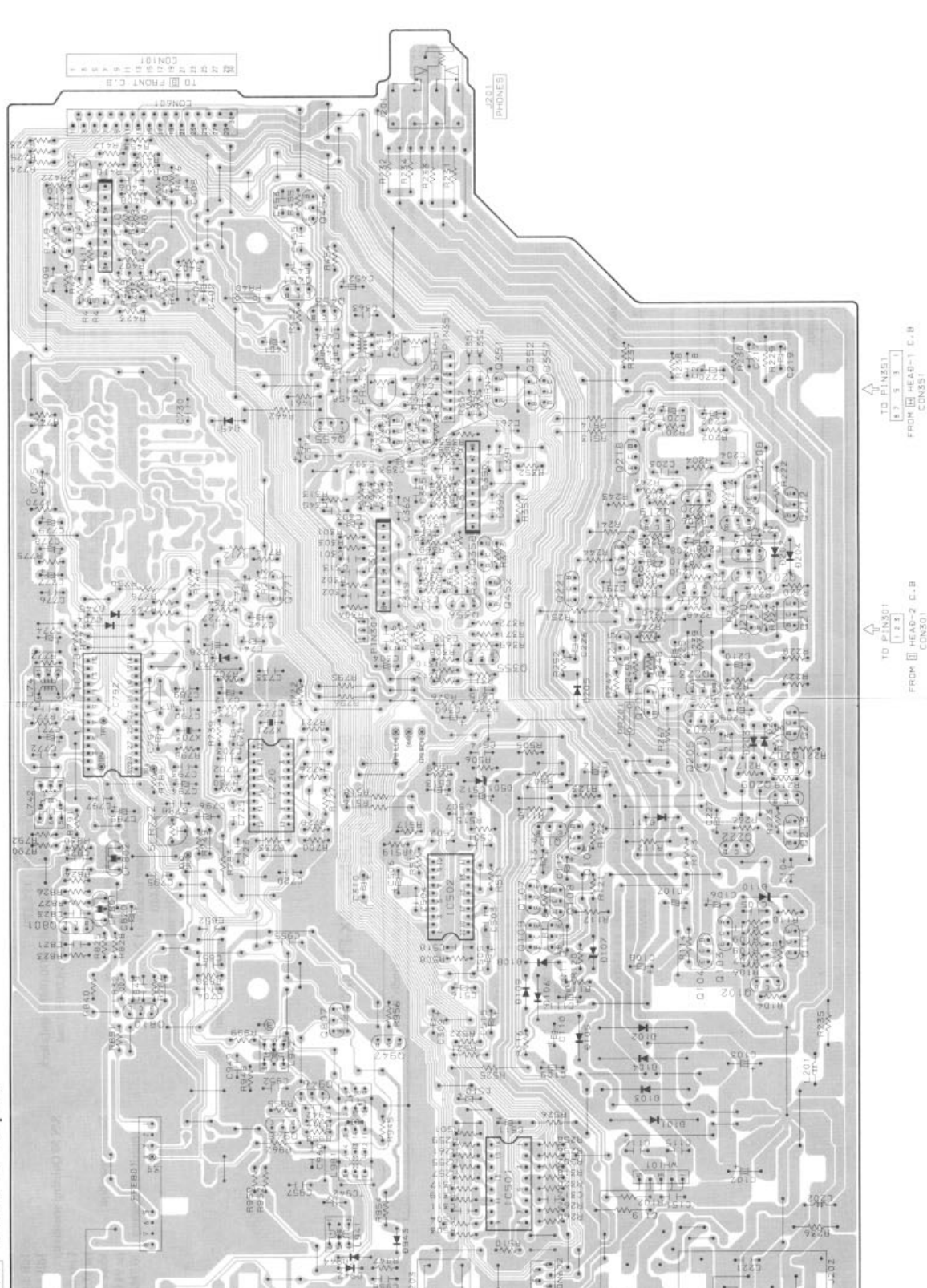
Intermediate frequency : 10.7MHz

SX-NV210 <YJBNC>, SX-FNV420 <YLJBK> SPEAKER PARTS LIST

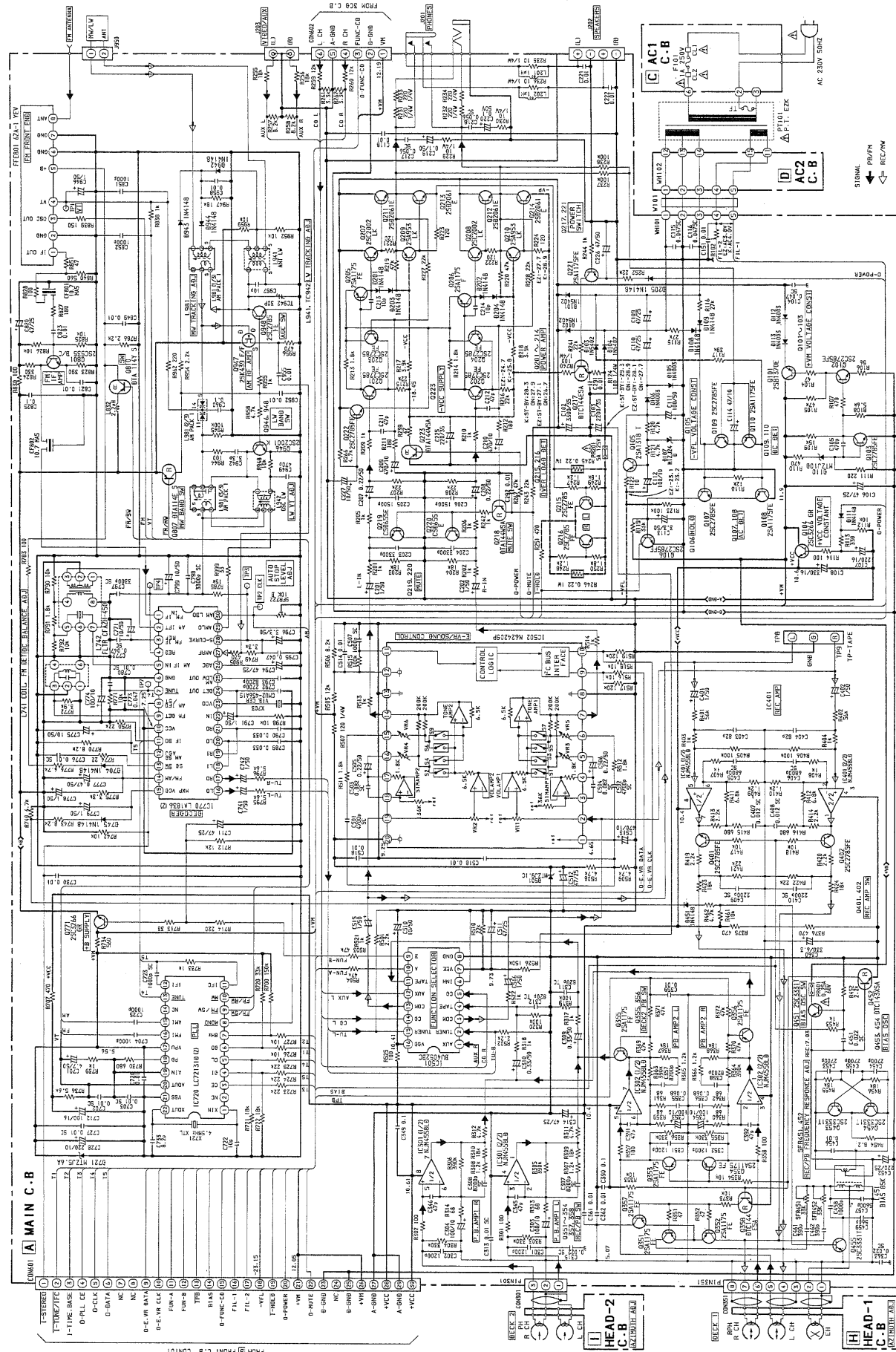
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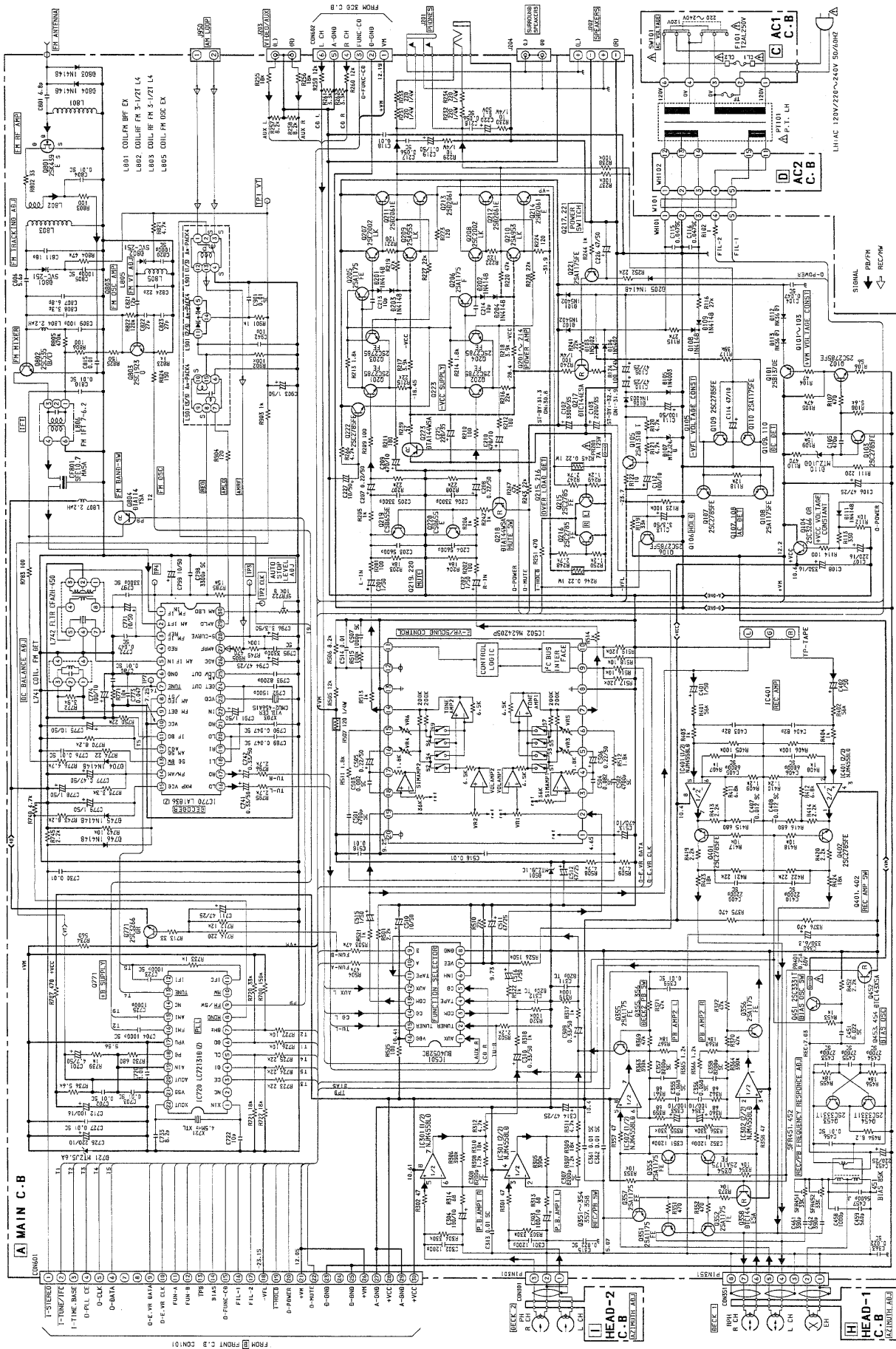
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NSZ-001-010		PANEL, FR<YJBNC>
2	86-NSZ-607-010		SPEAKER, 120DH<YJBNC>
3	86-NSZ-602-010		SPEAKER, CERA 14<YJBNC>
4	86-NSZ-003-010		NET<YJBNC>
5	86-NSZ-610-010		CODE, SP<YJBNC>
6	86-NS5-028-010		HLDR SQ ASSY<YLJBK>
7	86-NS5-007-010		GRILLE FRAME ASSY<YLJBK>
8	86-NS5-608-010		SPEAKER WOOFER<YLJBK>
9	86-NS5-604-010		SPEAKER TWEETER<YLJBK>
10	86-NS5-606-010		SPEAKER<YLJBK>
11	86-NS5-036-010		PANEL FR, ASSY<YLJBK>
12	86-NS5-037-010		SPEAKER CORD<YLJBK>
13	86-NS6-611-010		SPEAKER CORD Y/B<YLJBK>

A MAIN C.B.

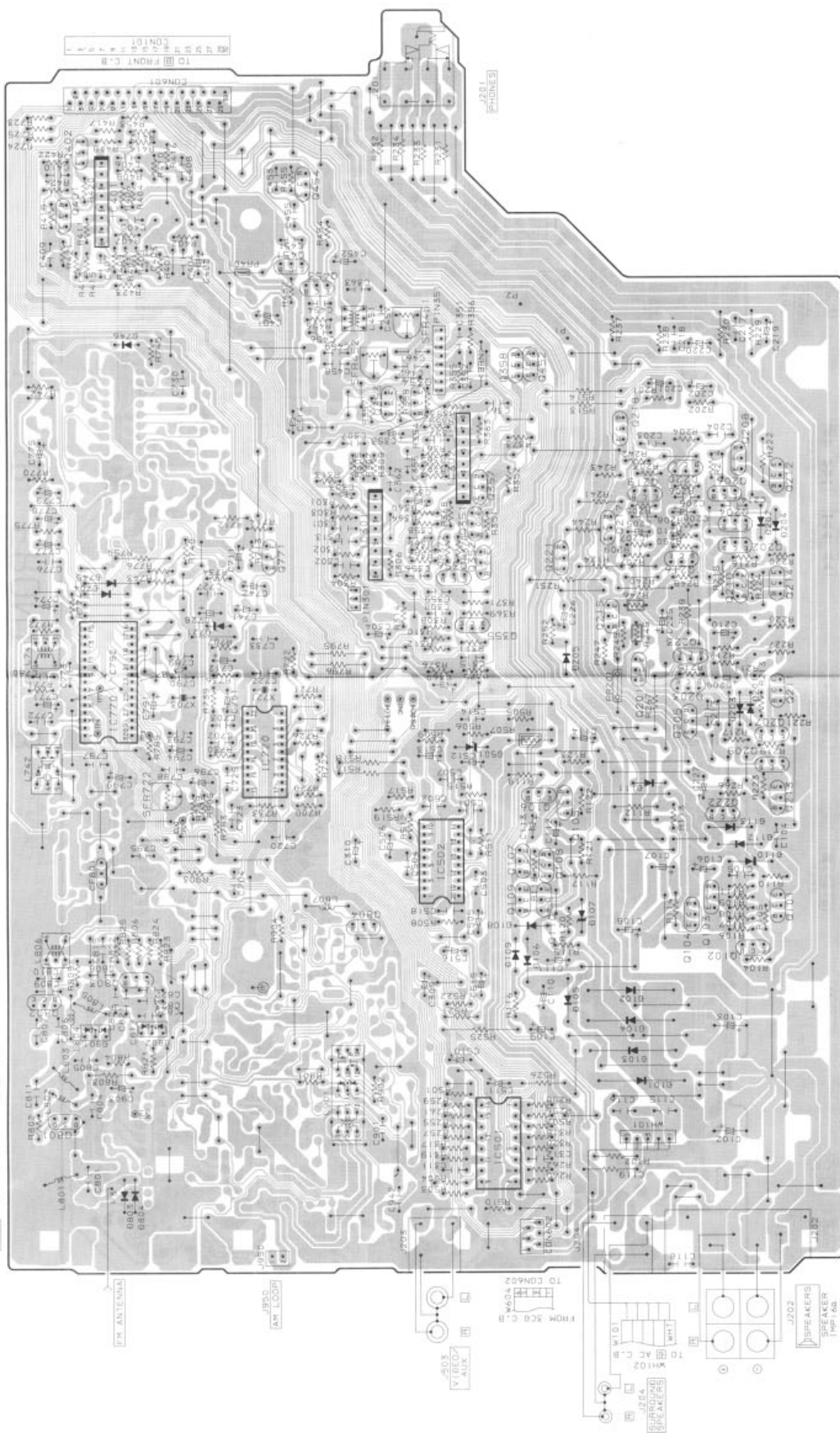


SCHEMATIC DIAGRAM - 1 (MAIN: V)





A MAIN C.B



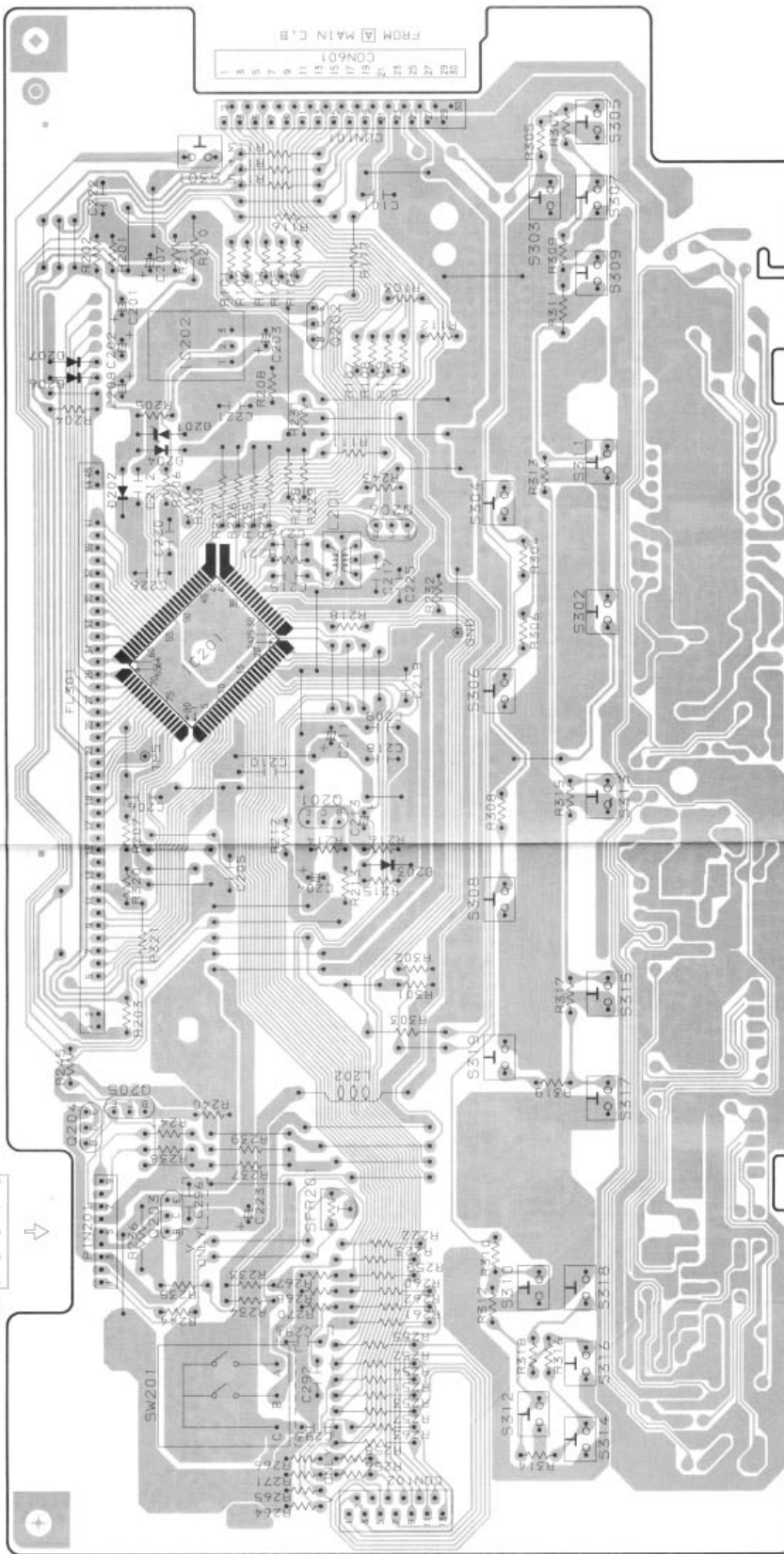
FROM DECK MECHA



B FRONT C.B

FL201
[DISPLAY]

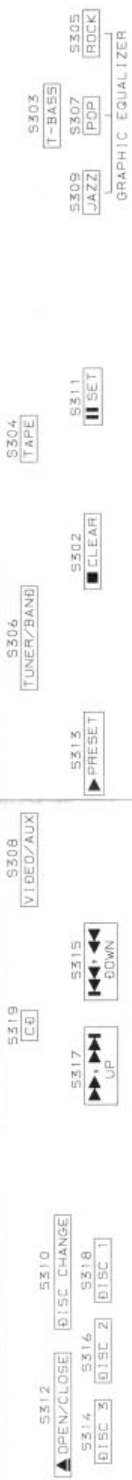
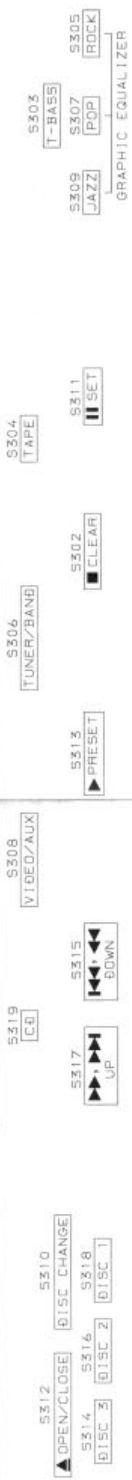
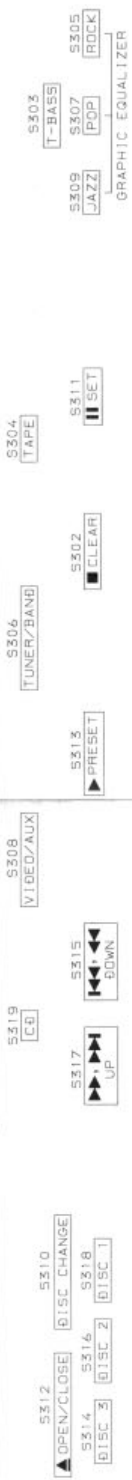
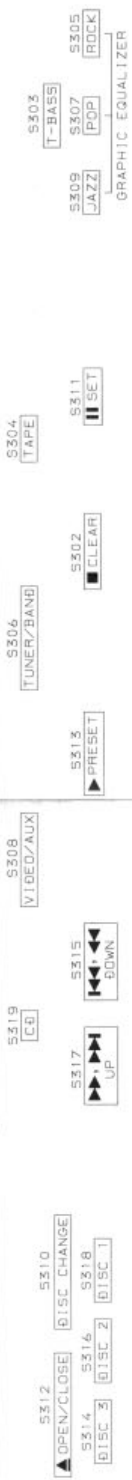
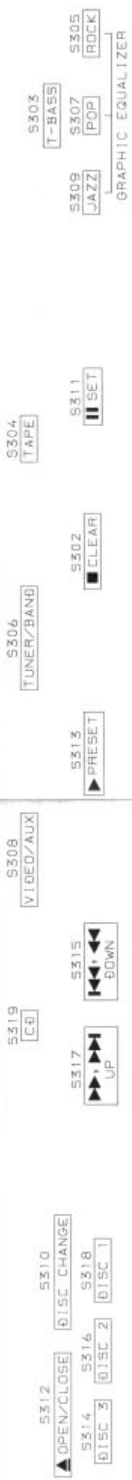
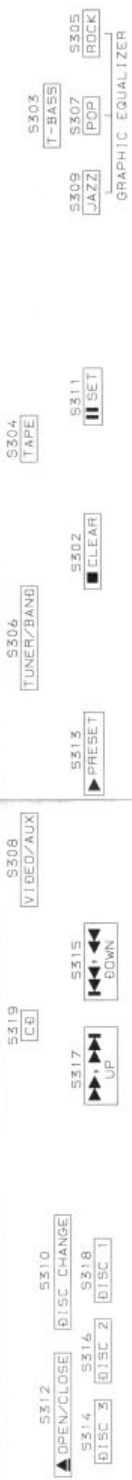
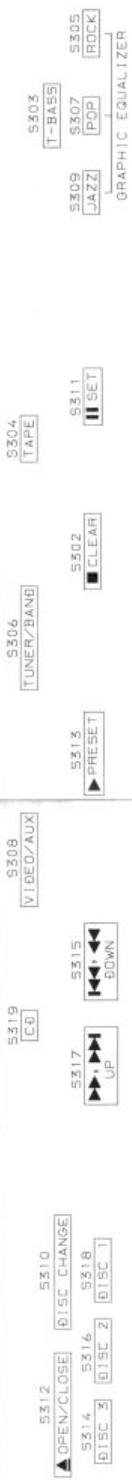
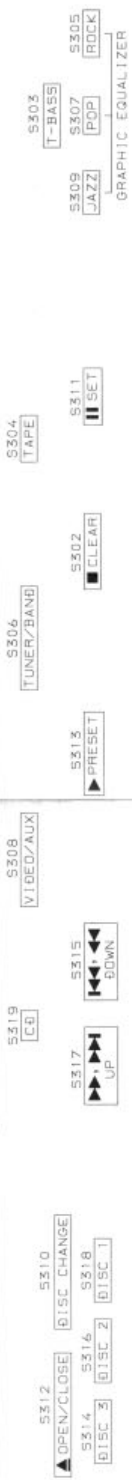
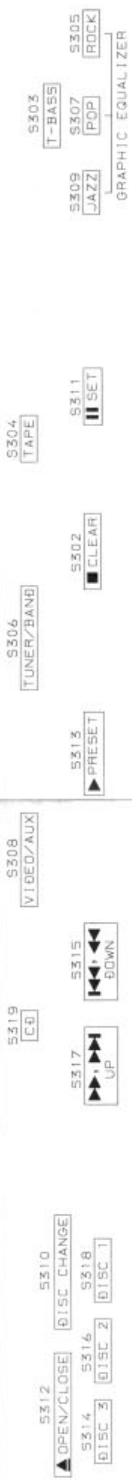
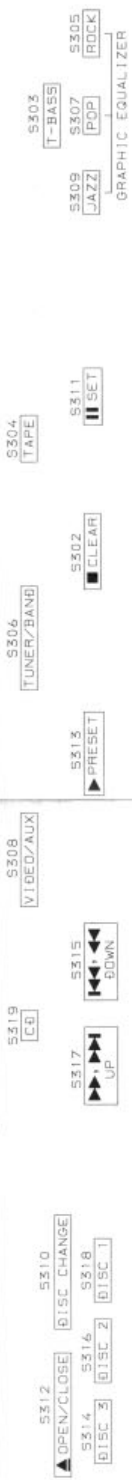
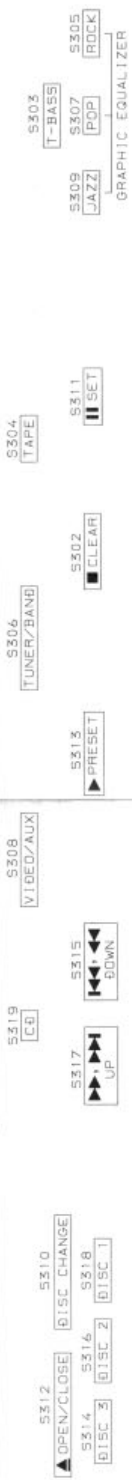
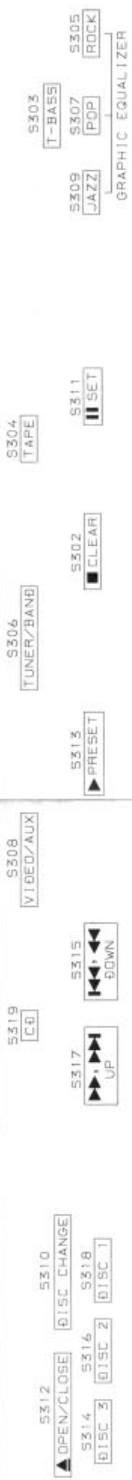
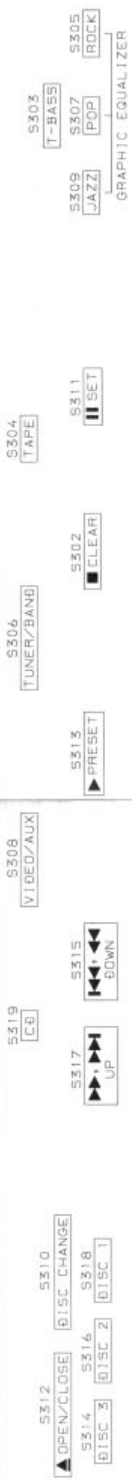
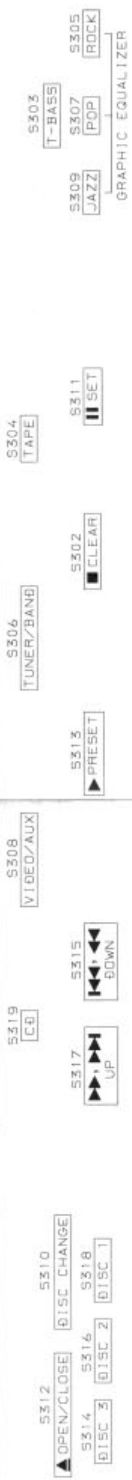
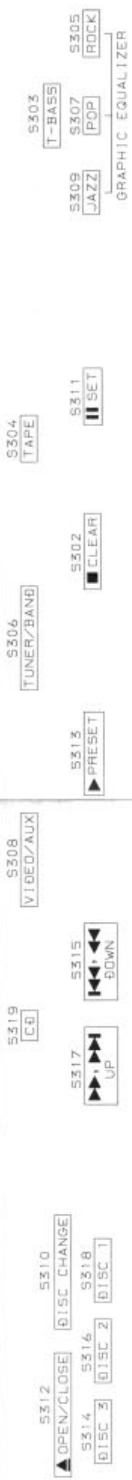
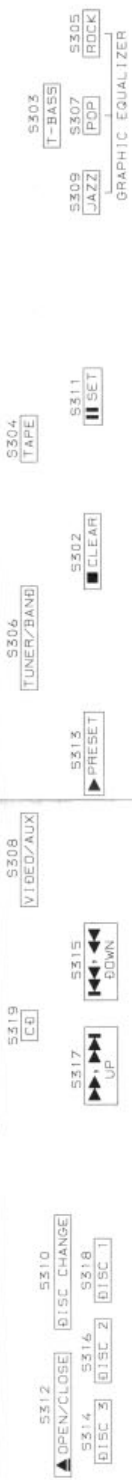
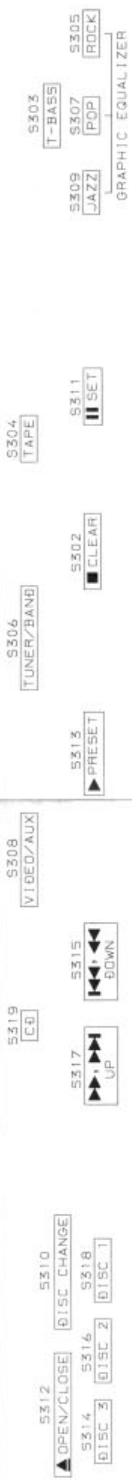
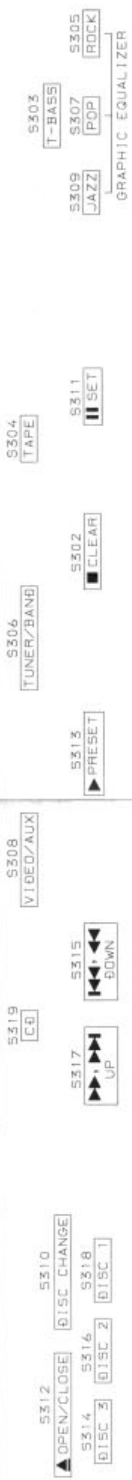
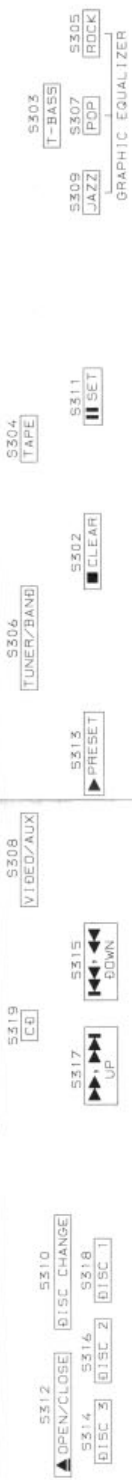
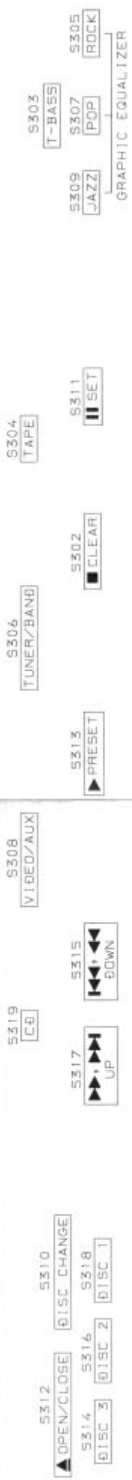
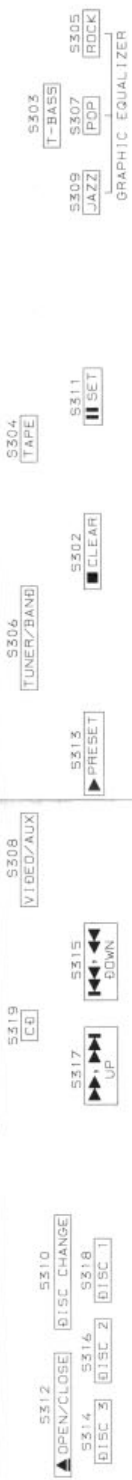
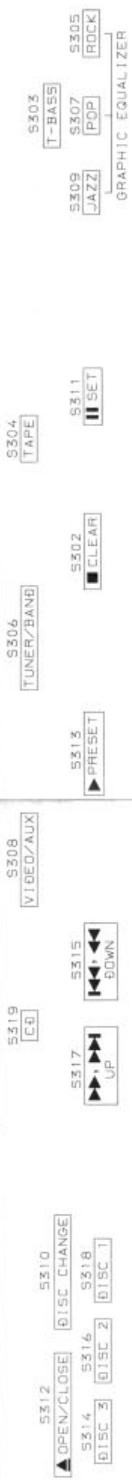
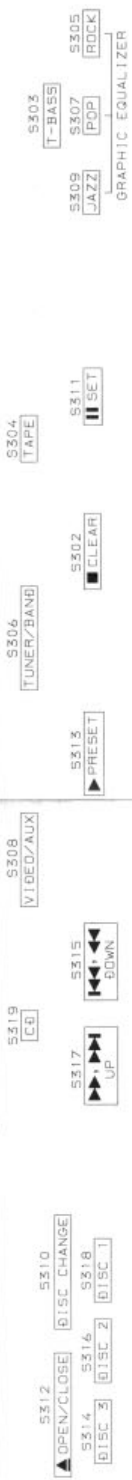
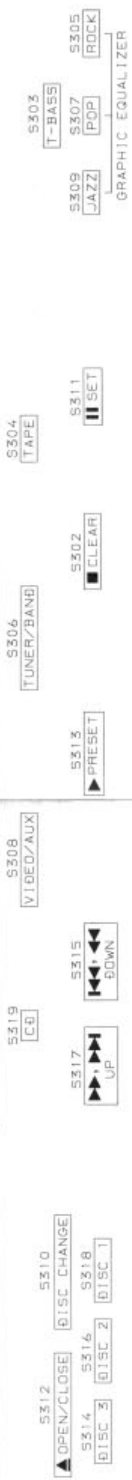
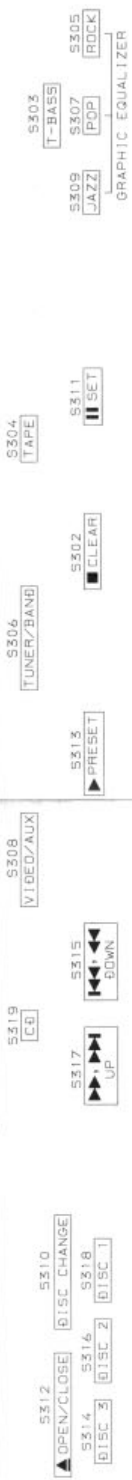
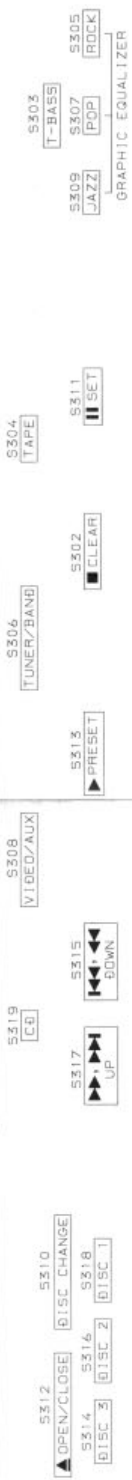
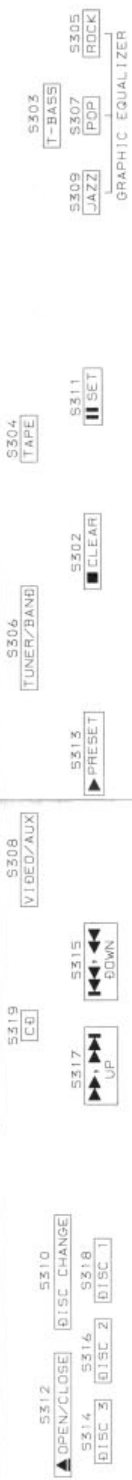
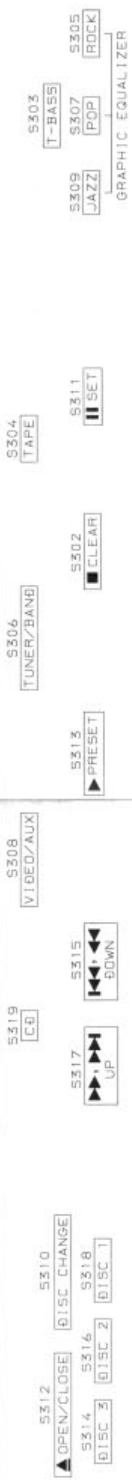
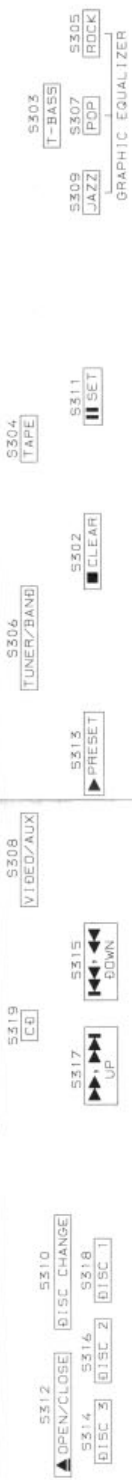
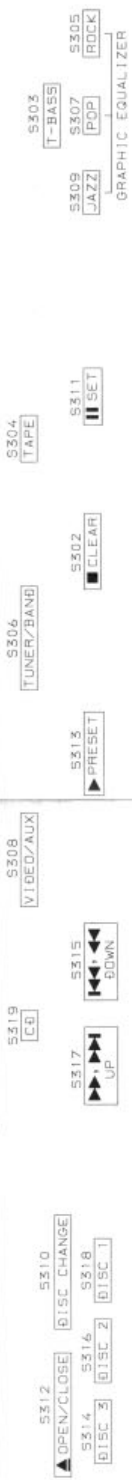
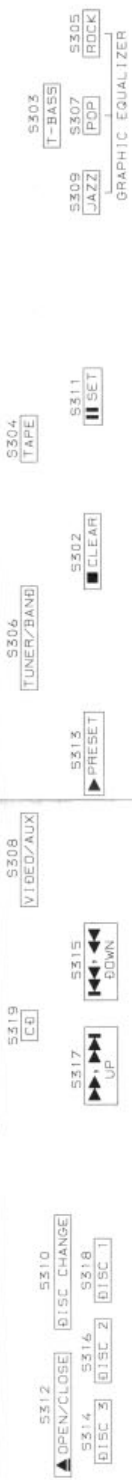
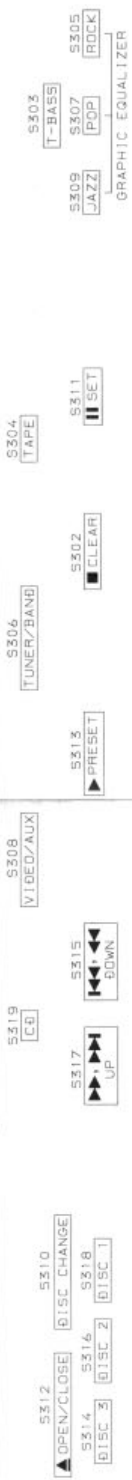
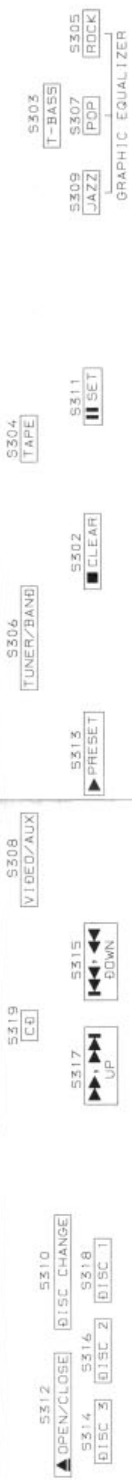
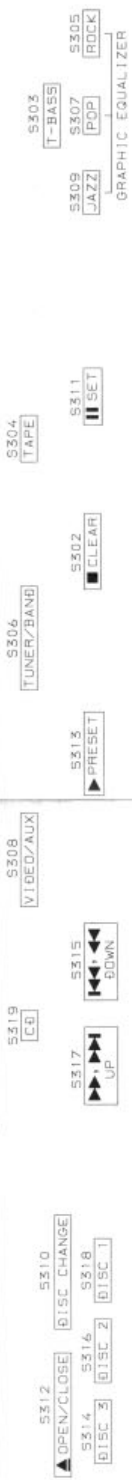
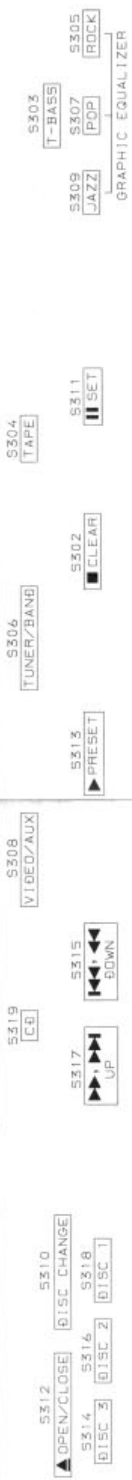
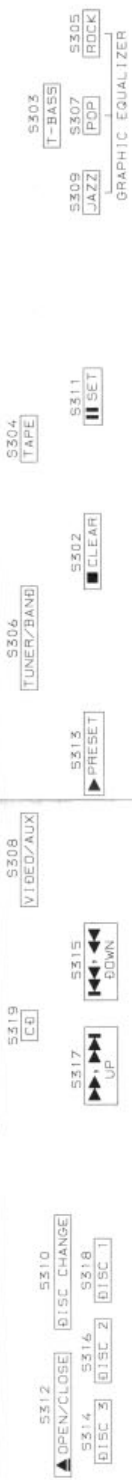
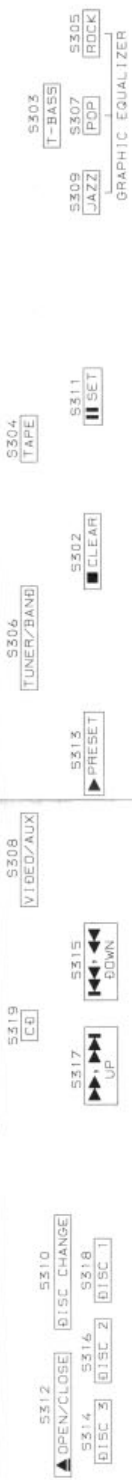
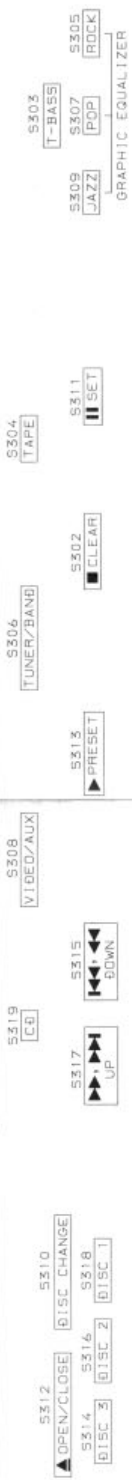
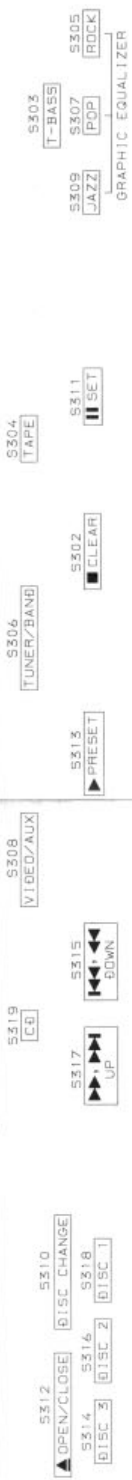
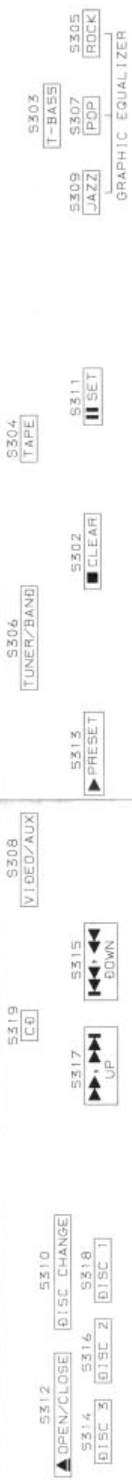
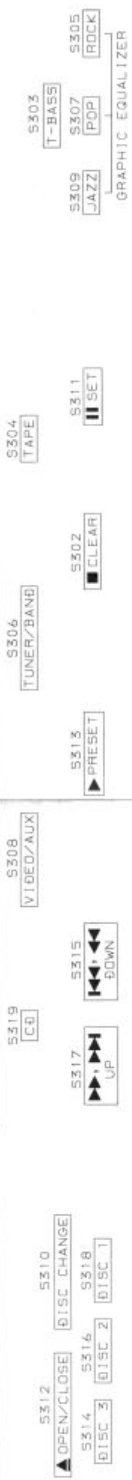
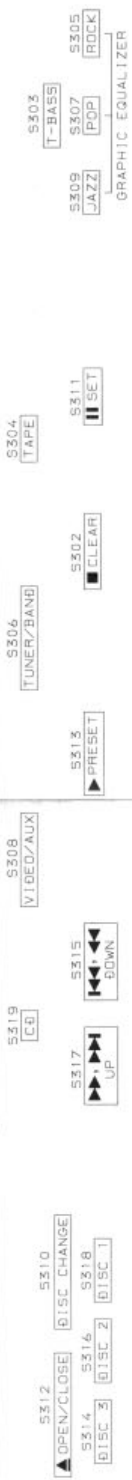
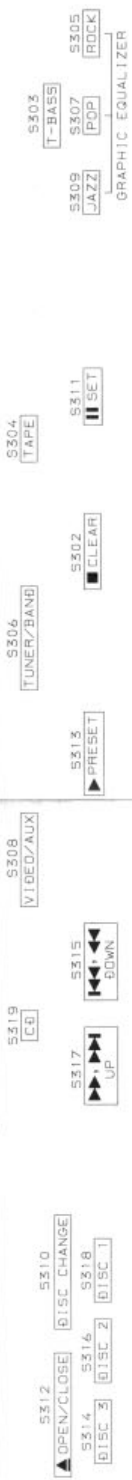
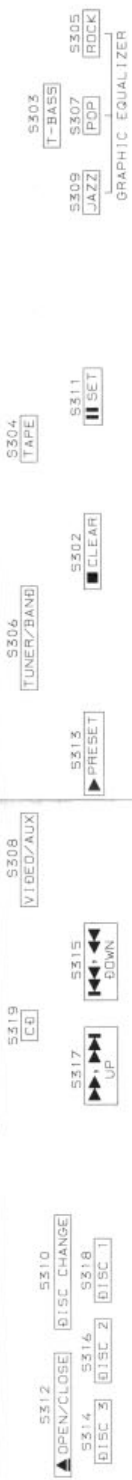
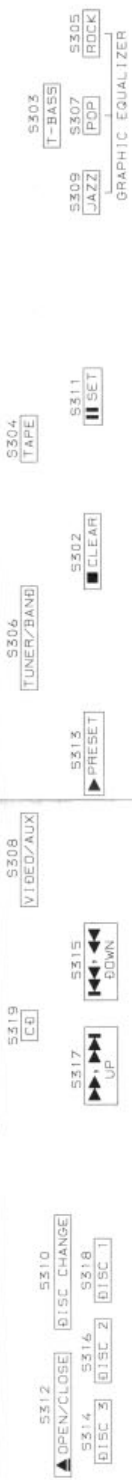
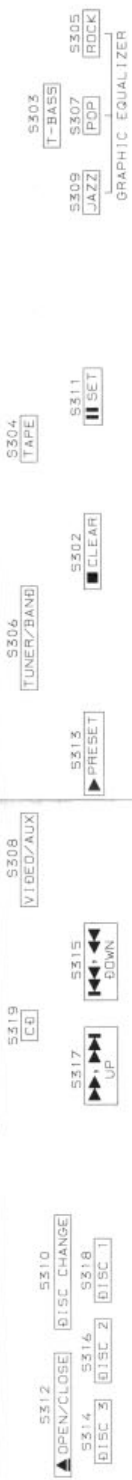
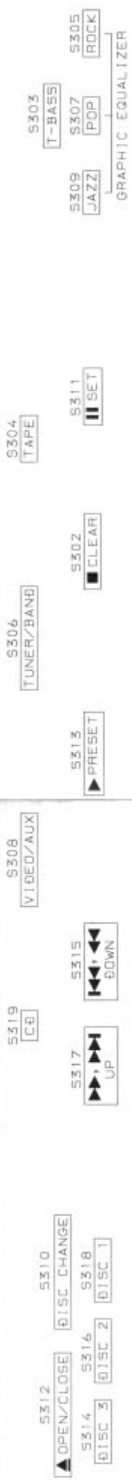
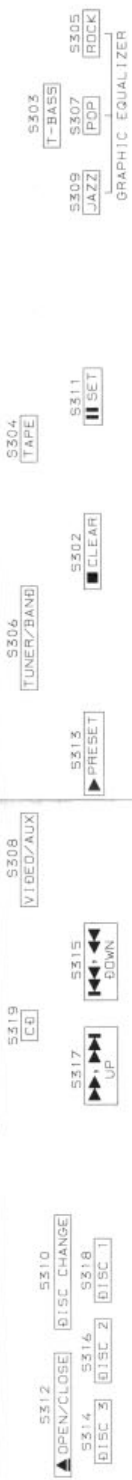
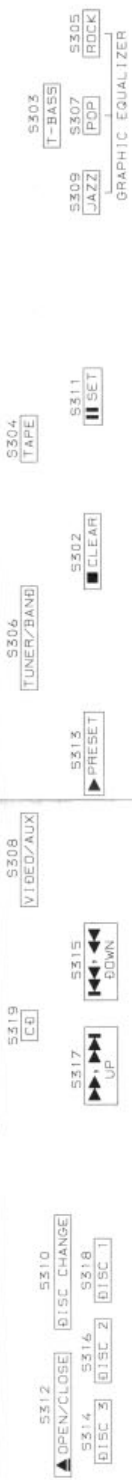
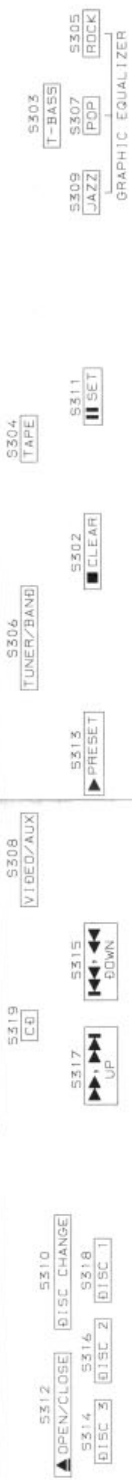
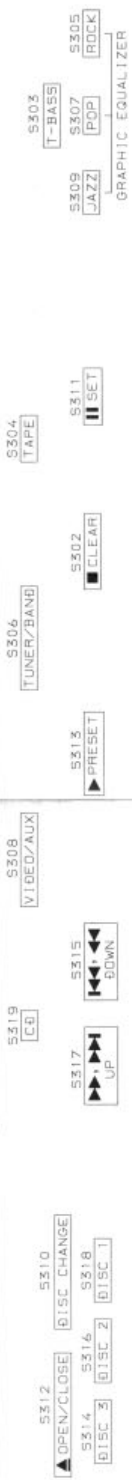
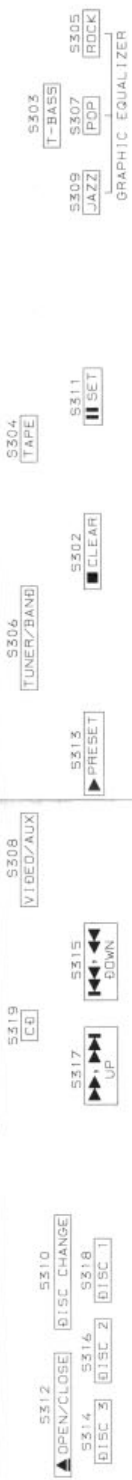
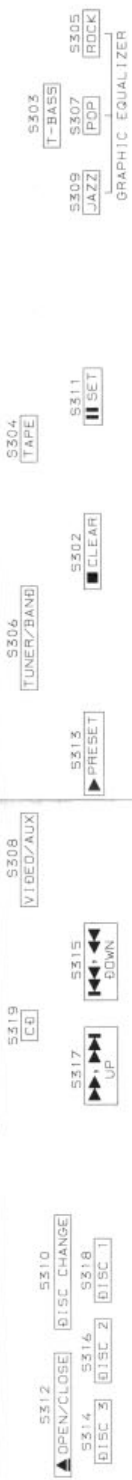
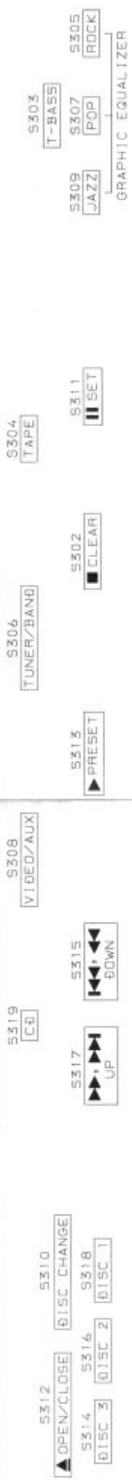
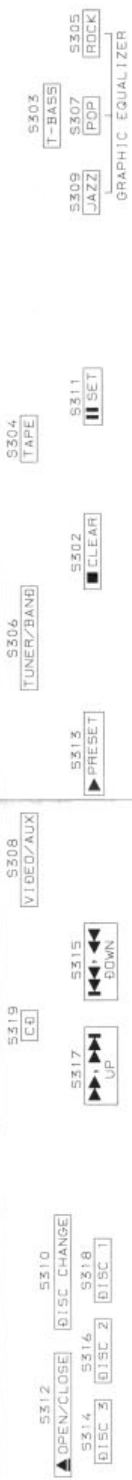
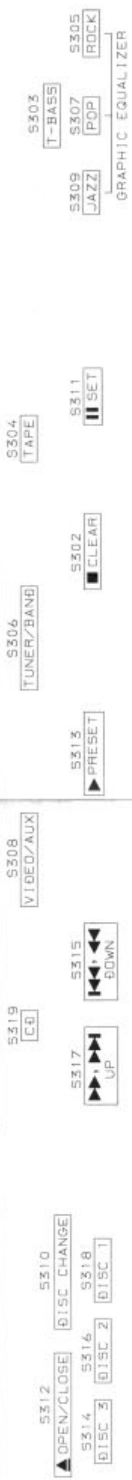
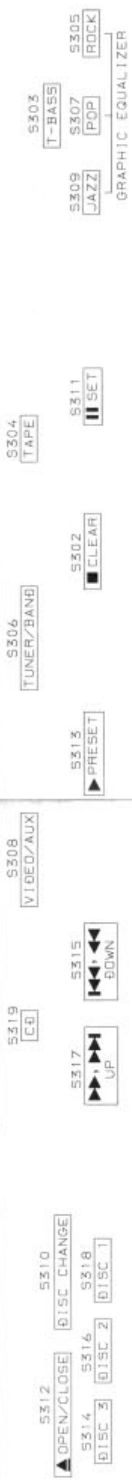
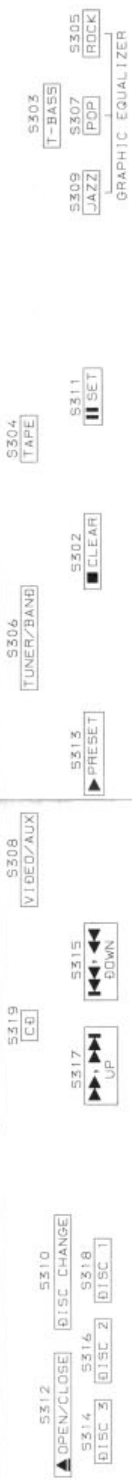
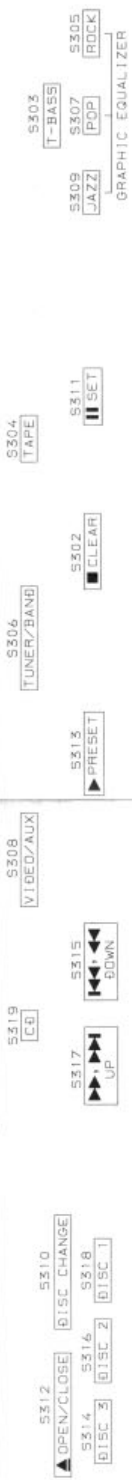
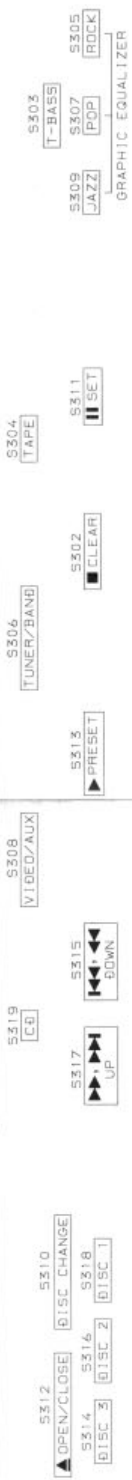
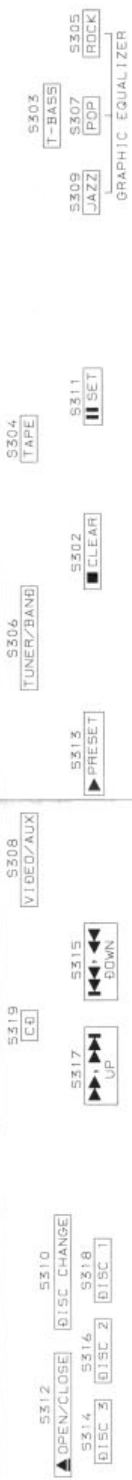
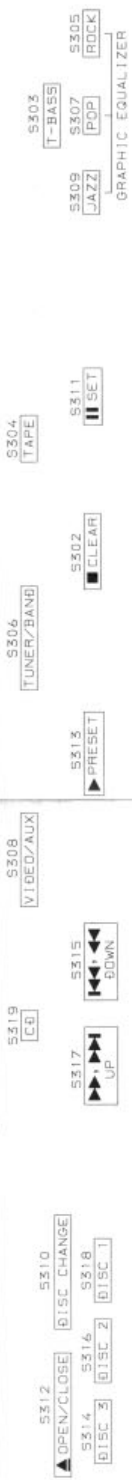
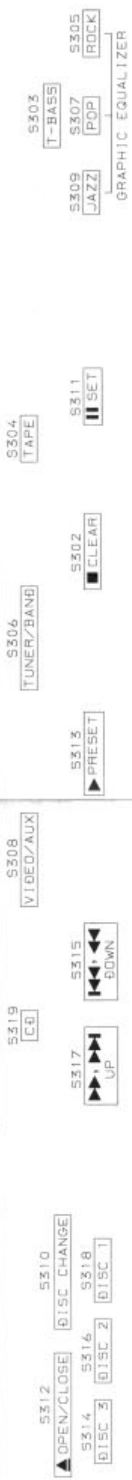
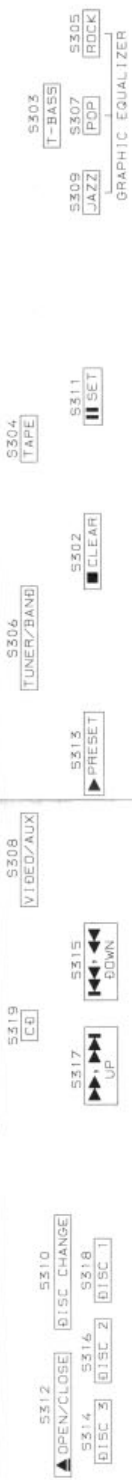
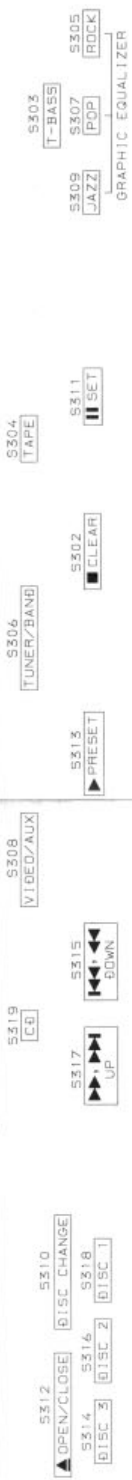
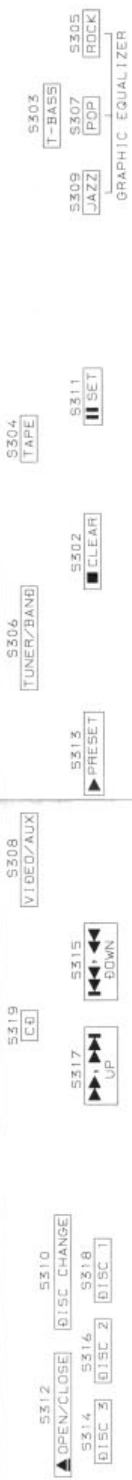
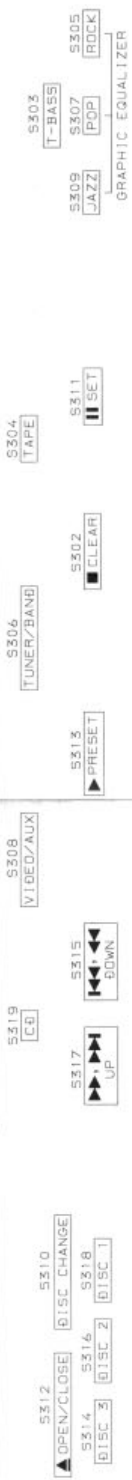
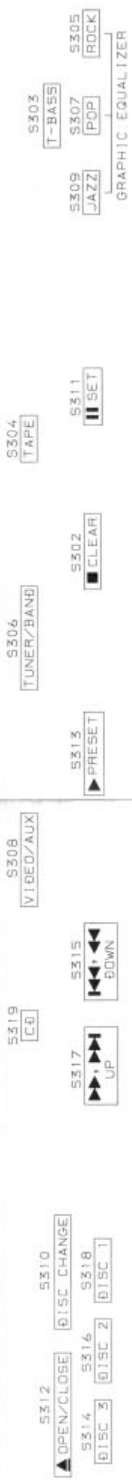
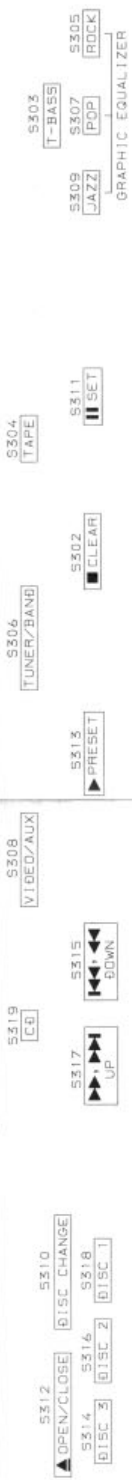
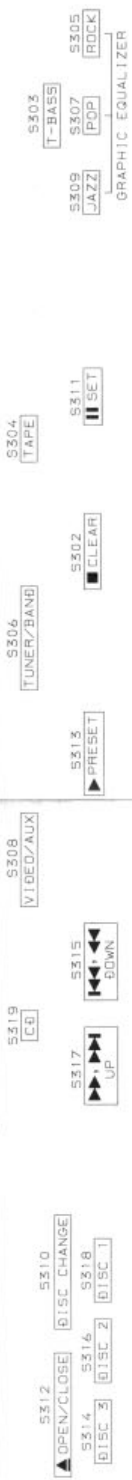
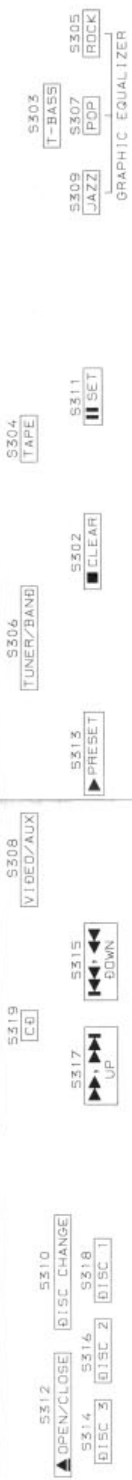
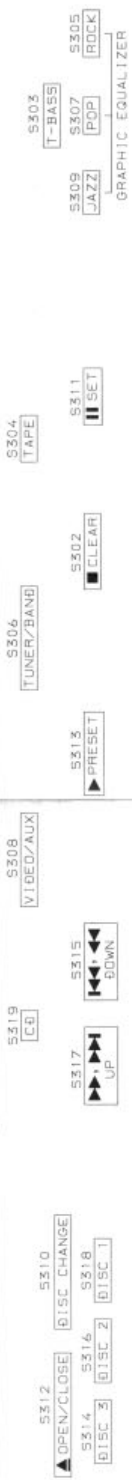
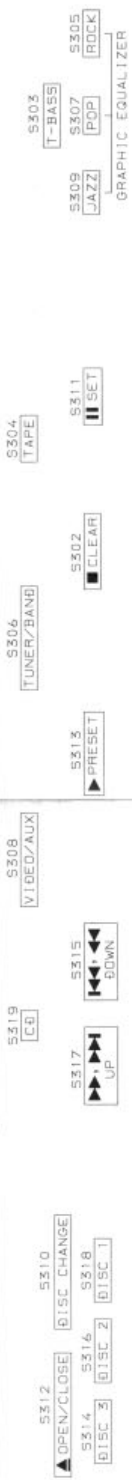
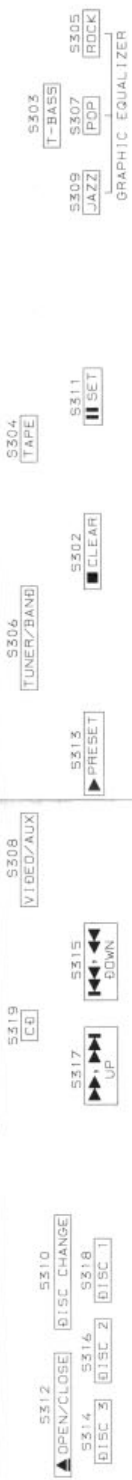
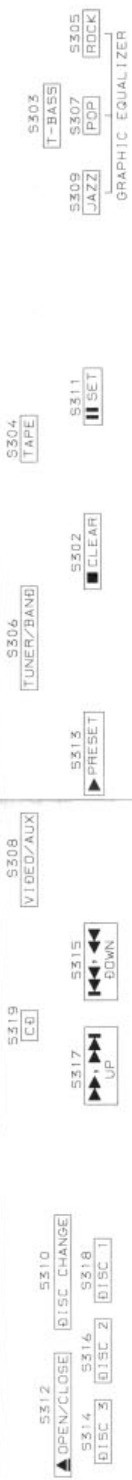
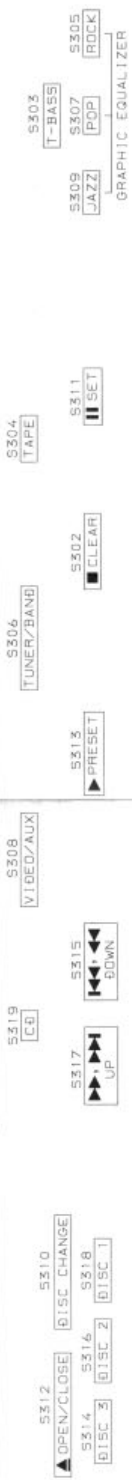
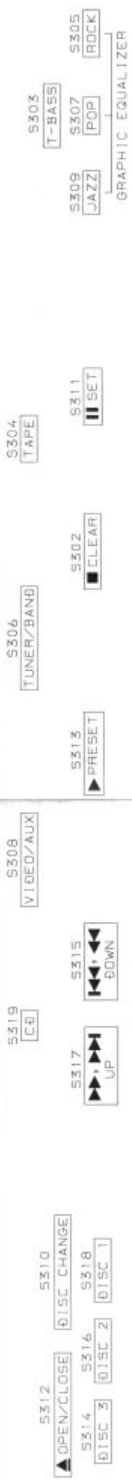
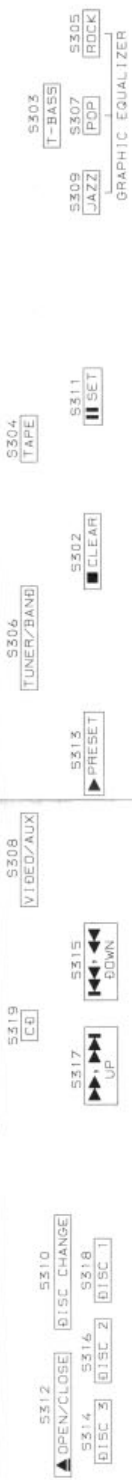
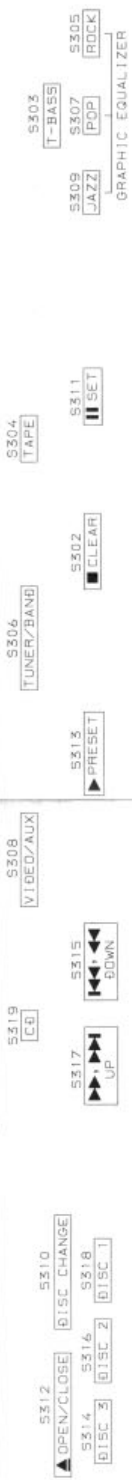
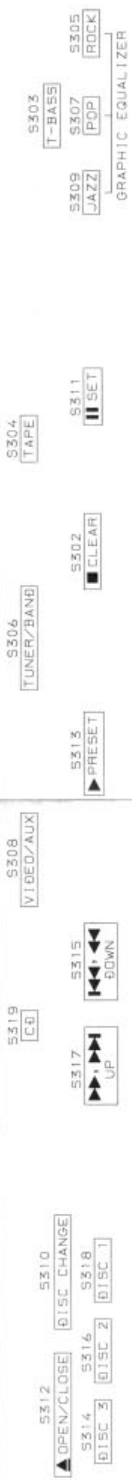
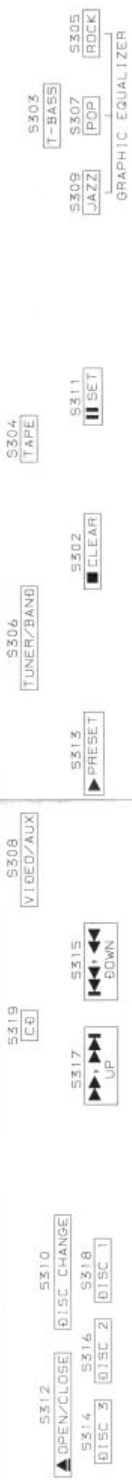
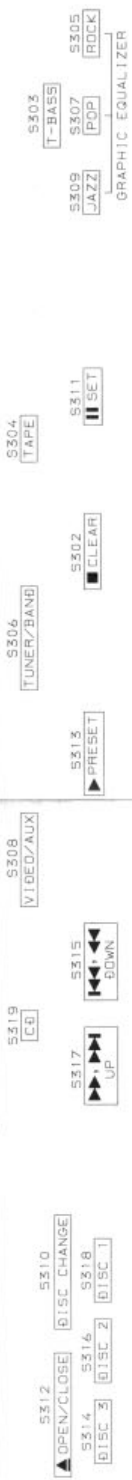
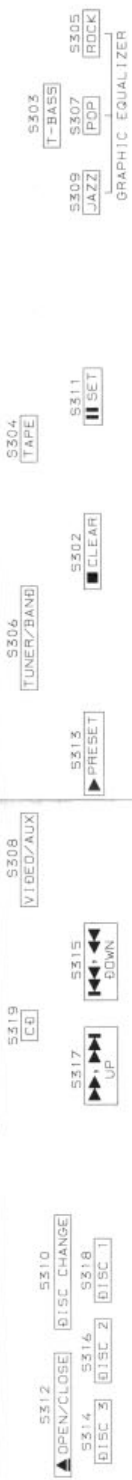
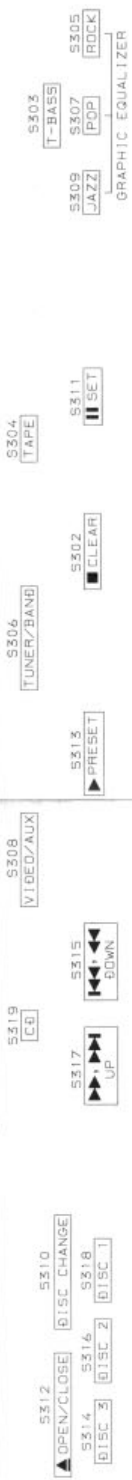
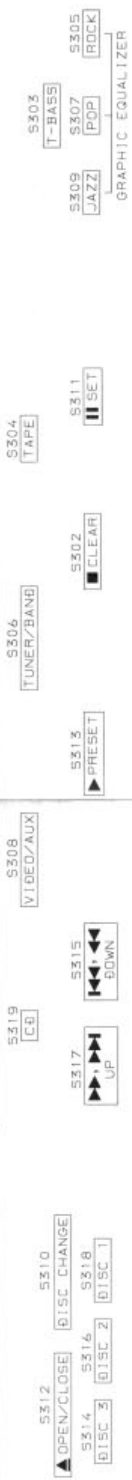
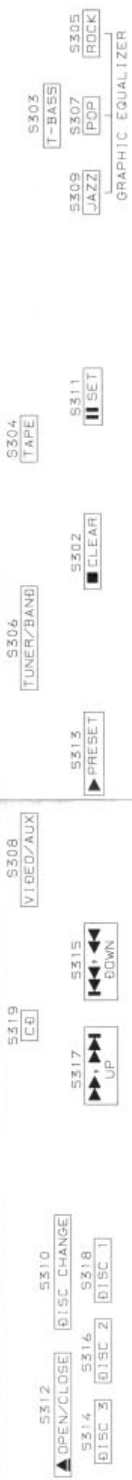
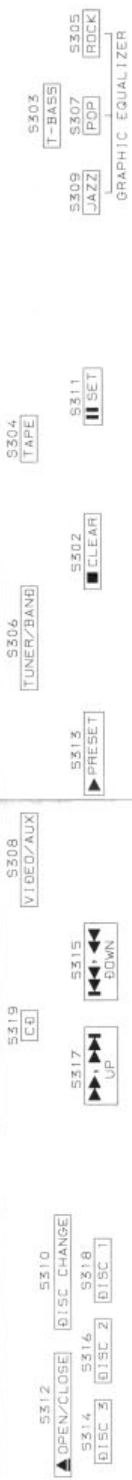
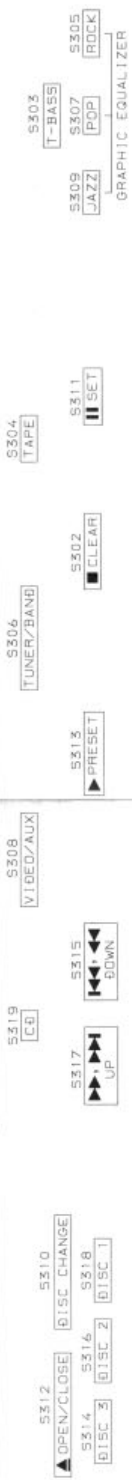
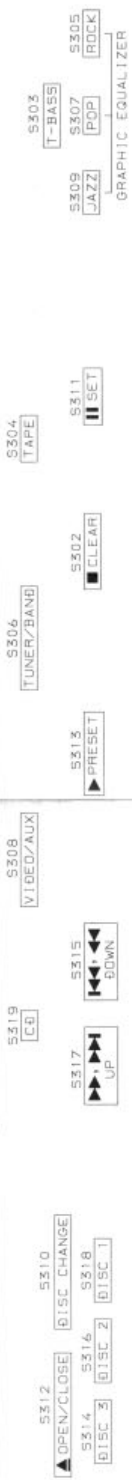
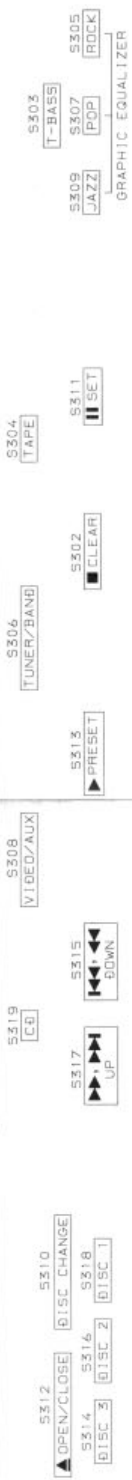
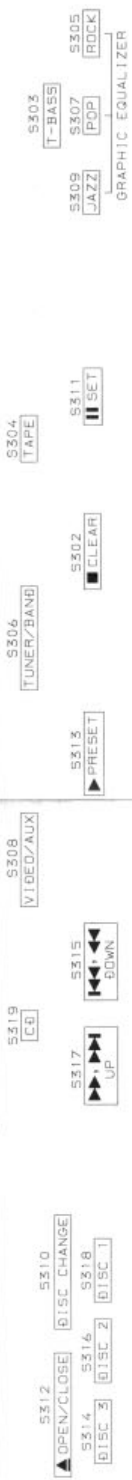
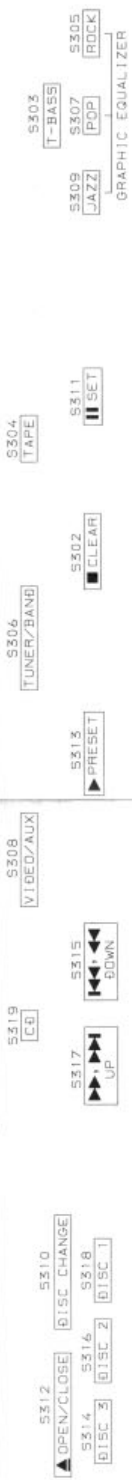
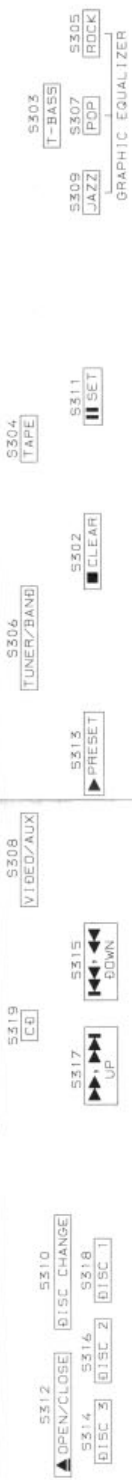
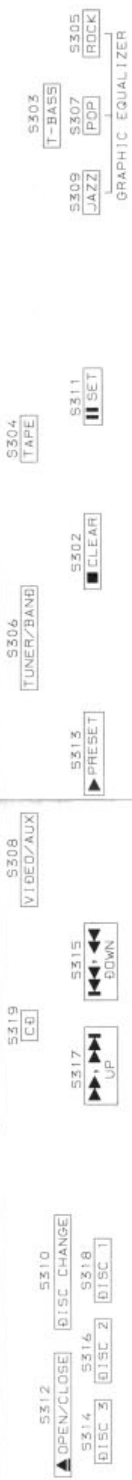
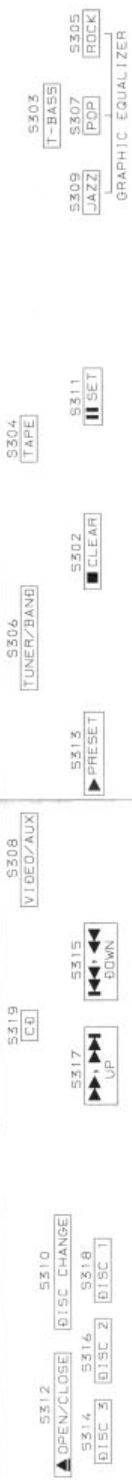
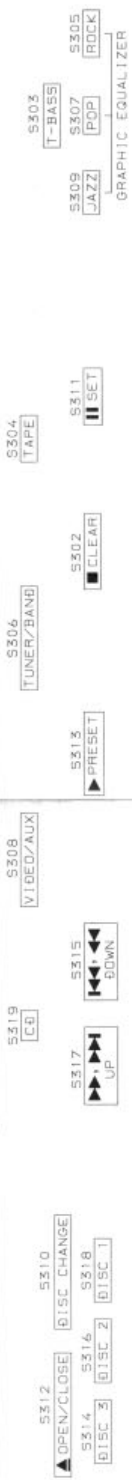
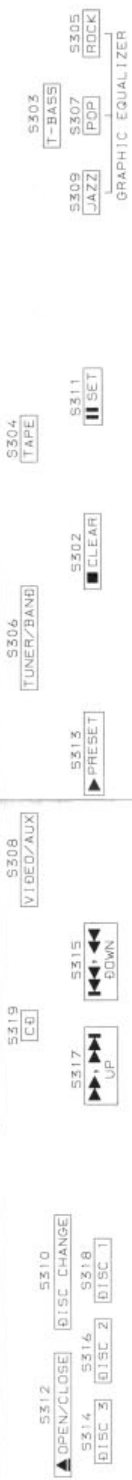
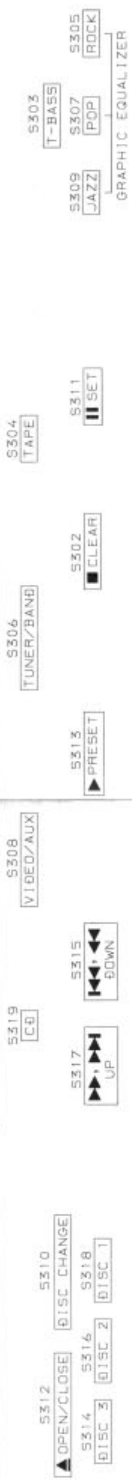
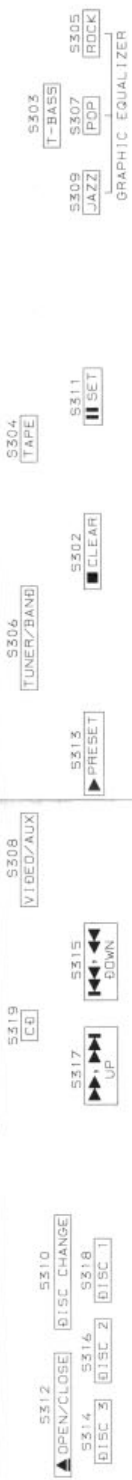
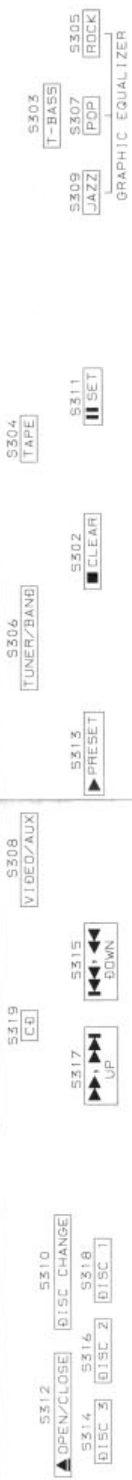
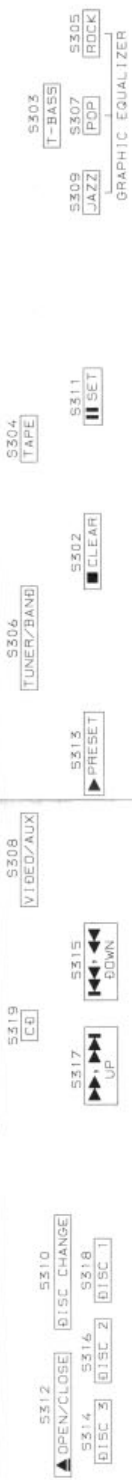
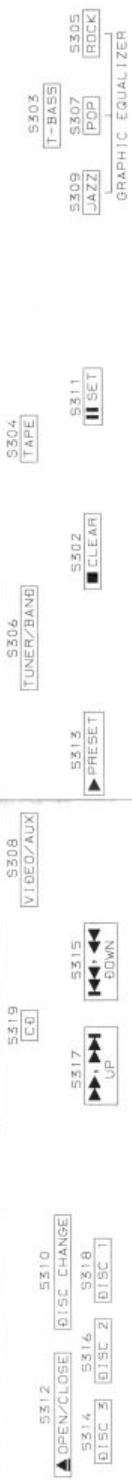
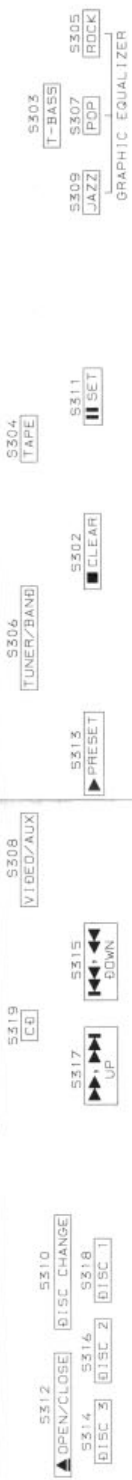
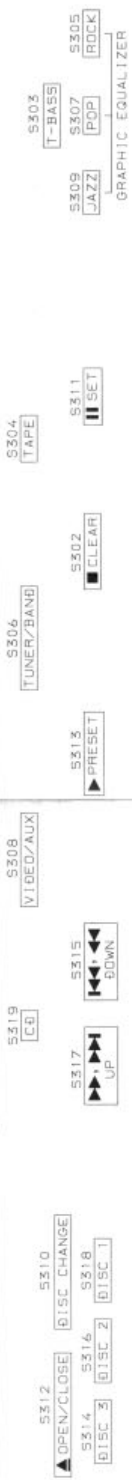
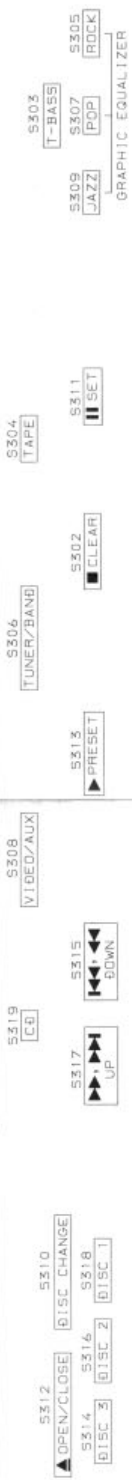
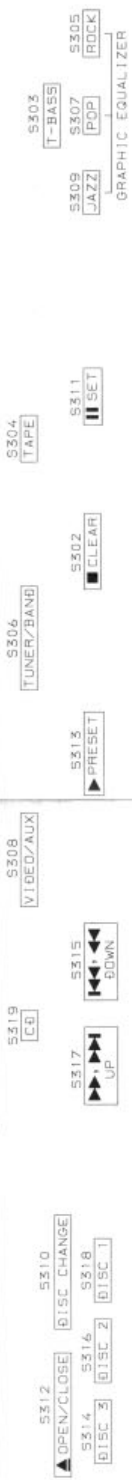
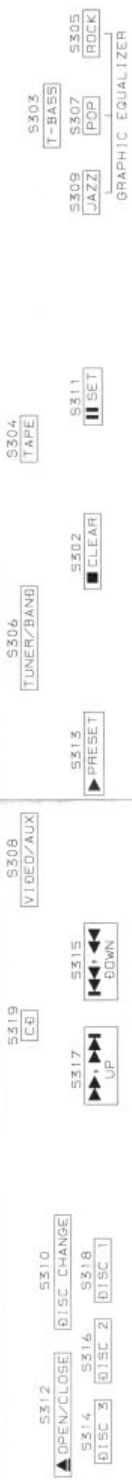
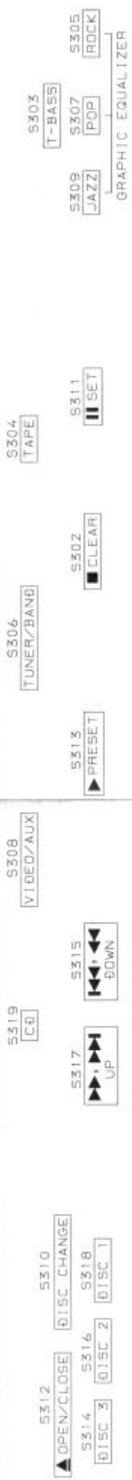
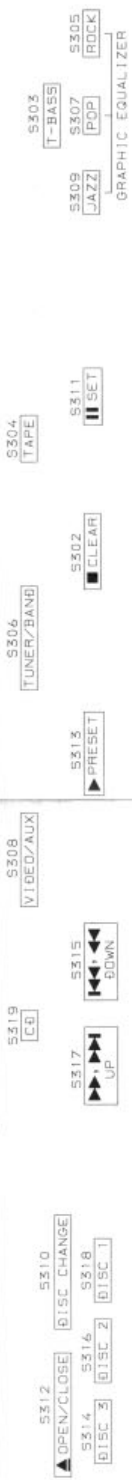
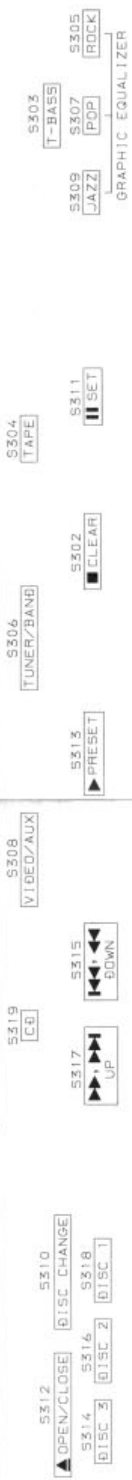
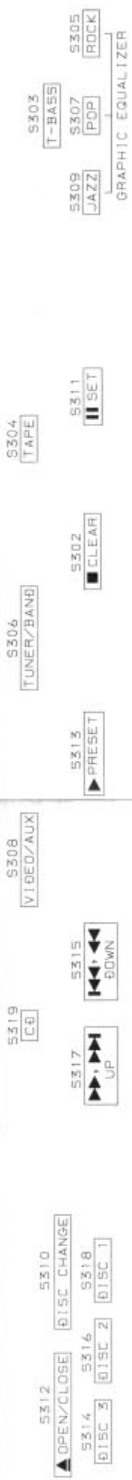
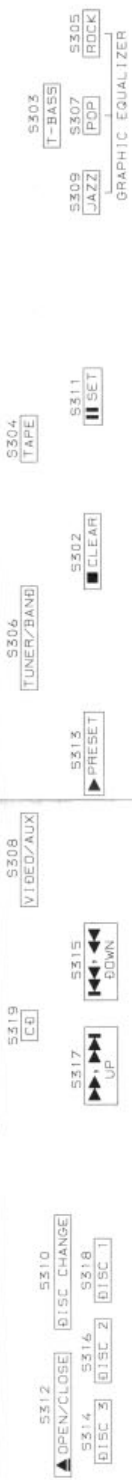
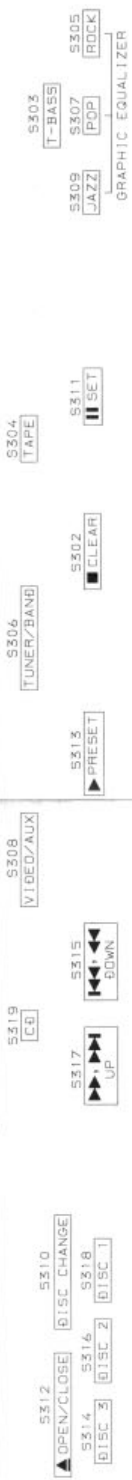
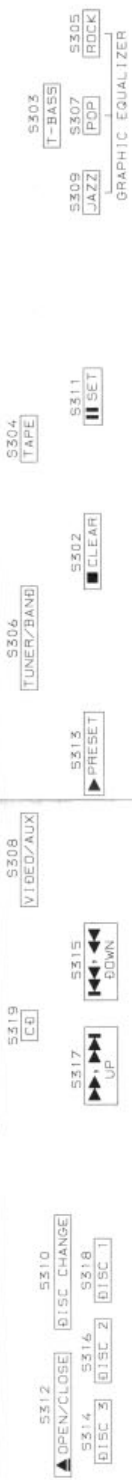
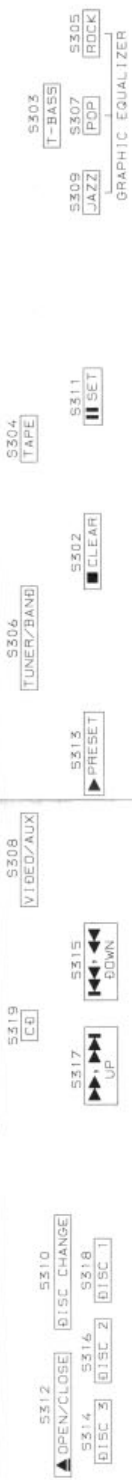
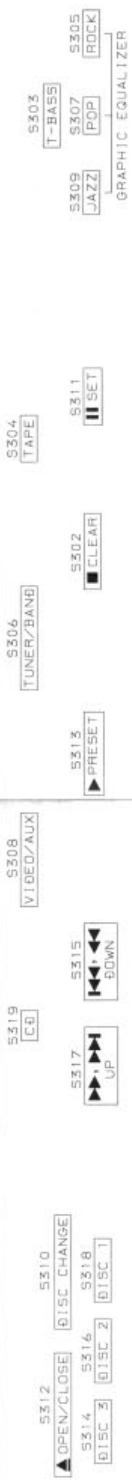
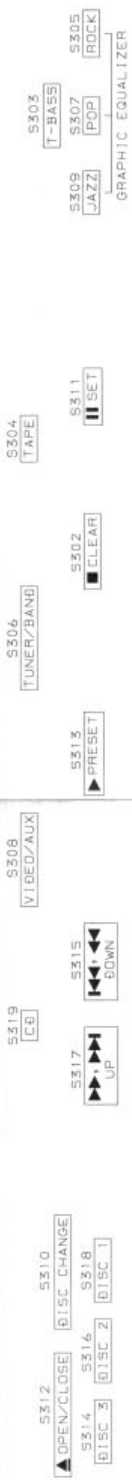
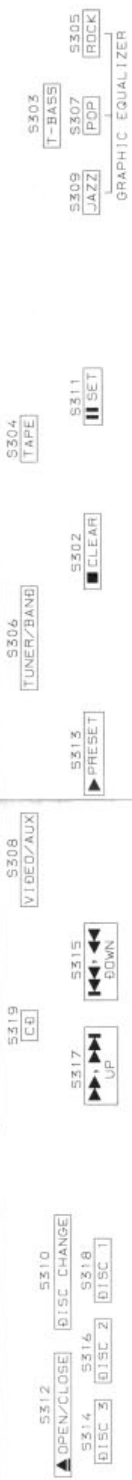
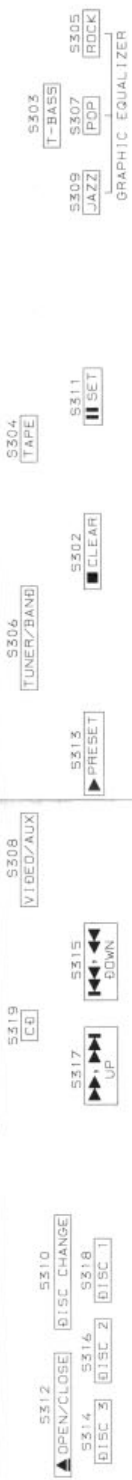
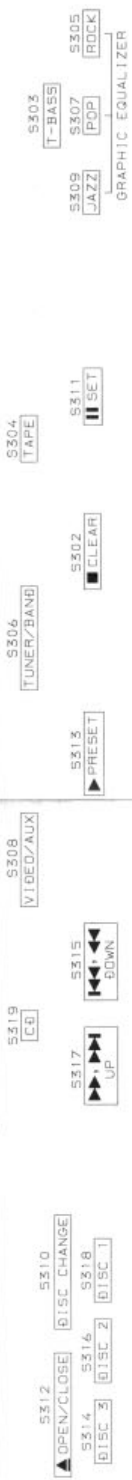
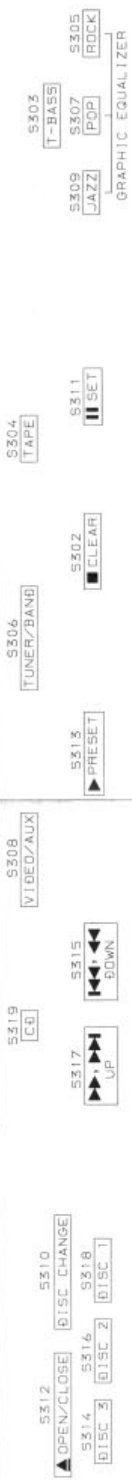
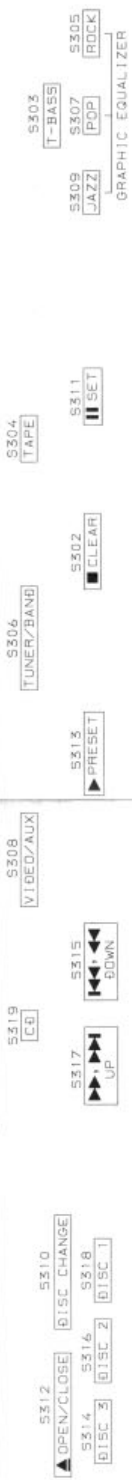
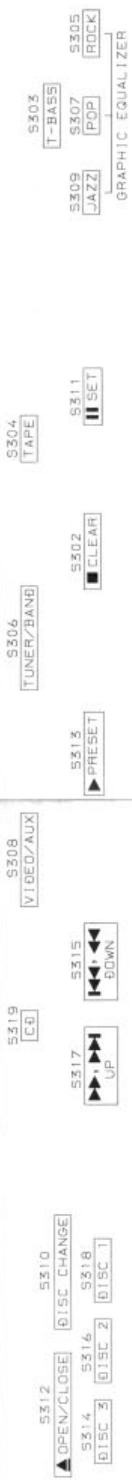
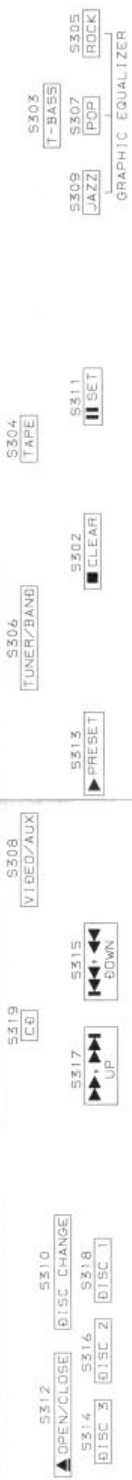
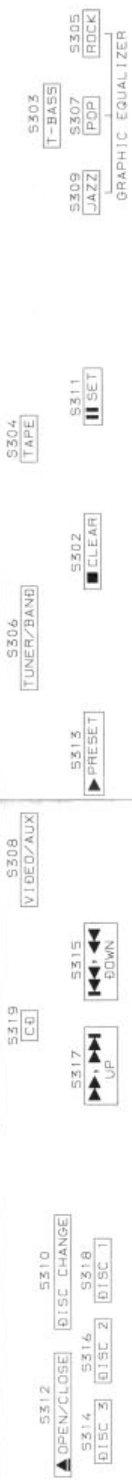
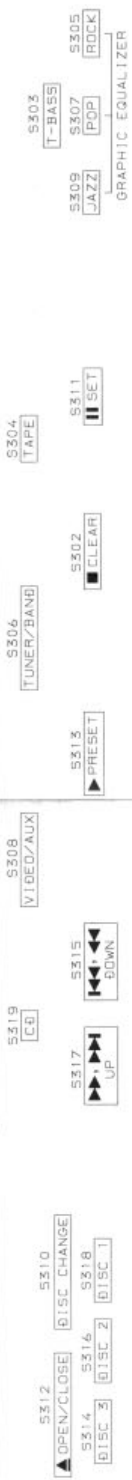
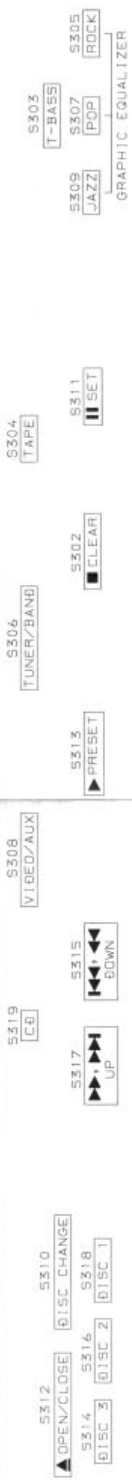
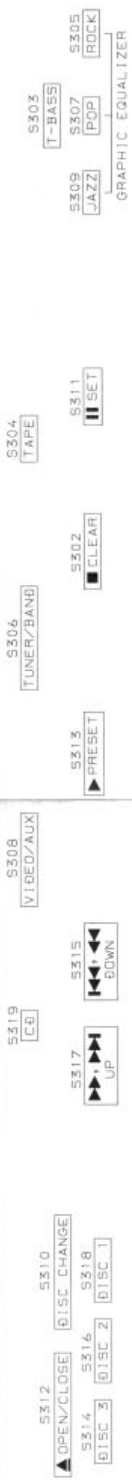
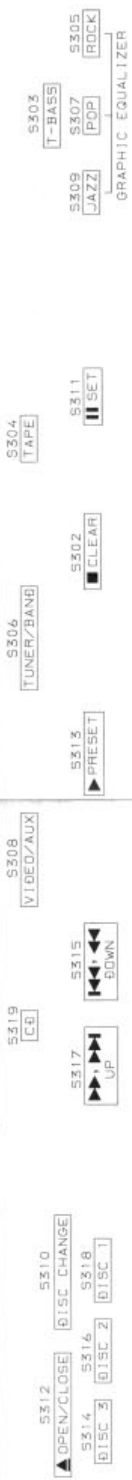
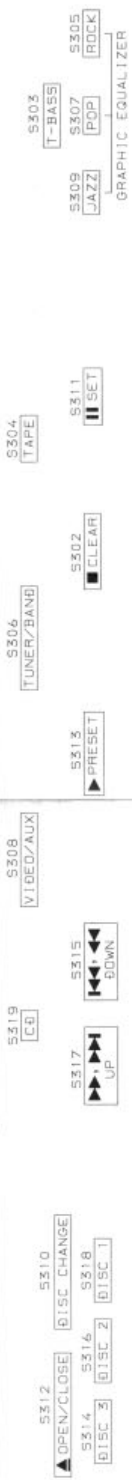
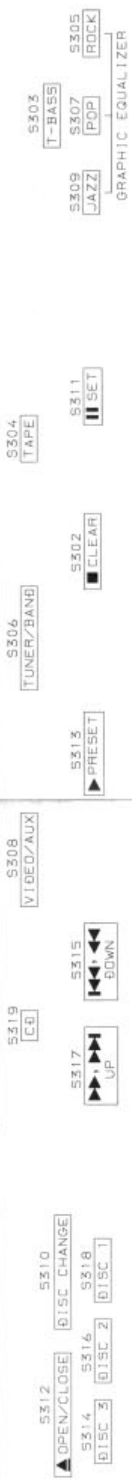
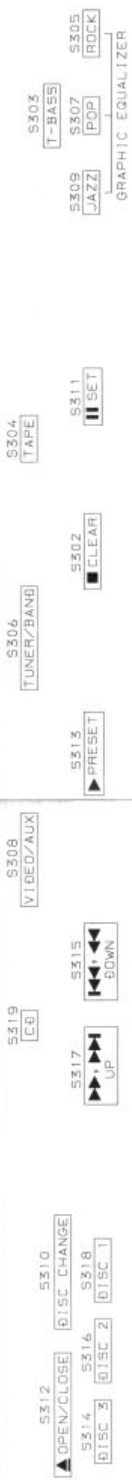
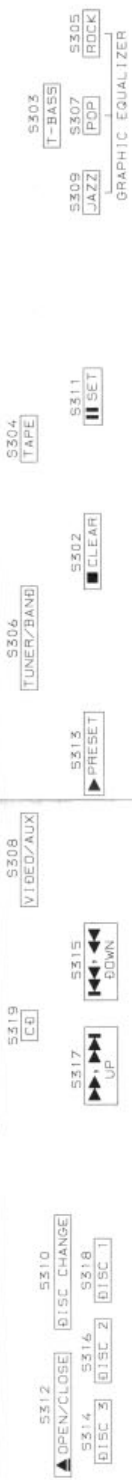
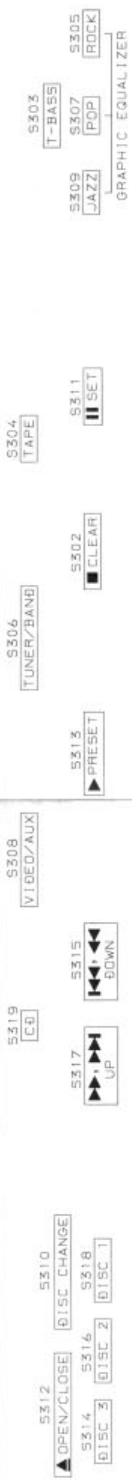
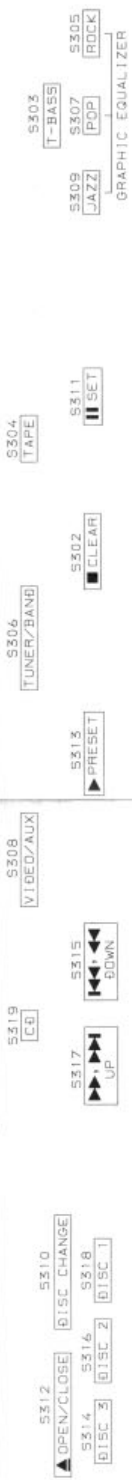
S301
[POWER]



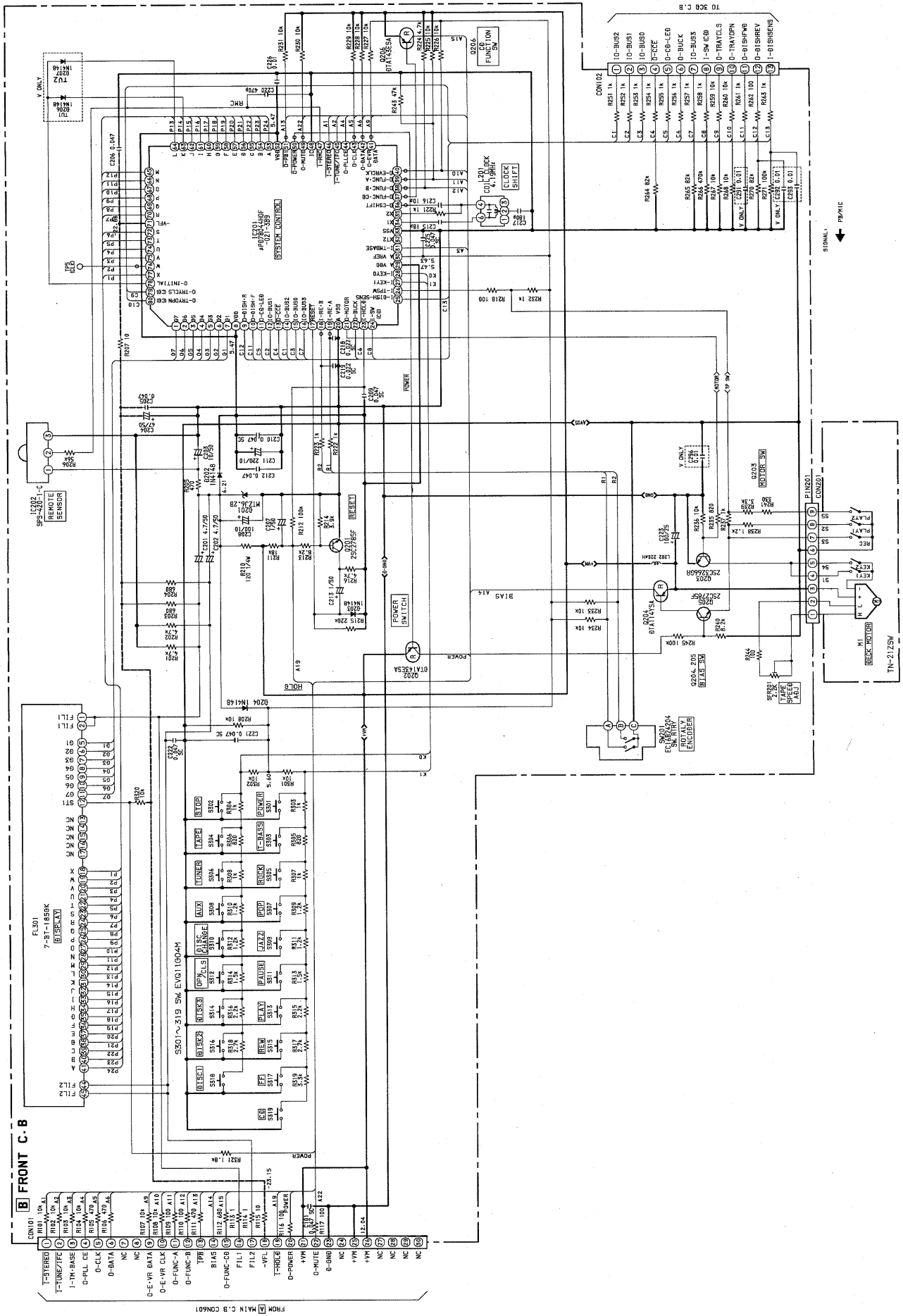
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[VOLUME]



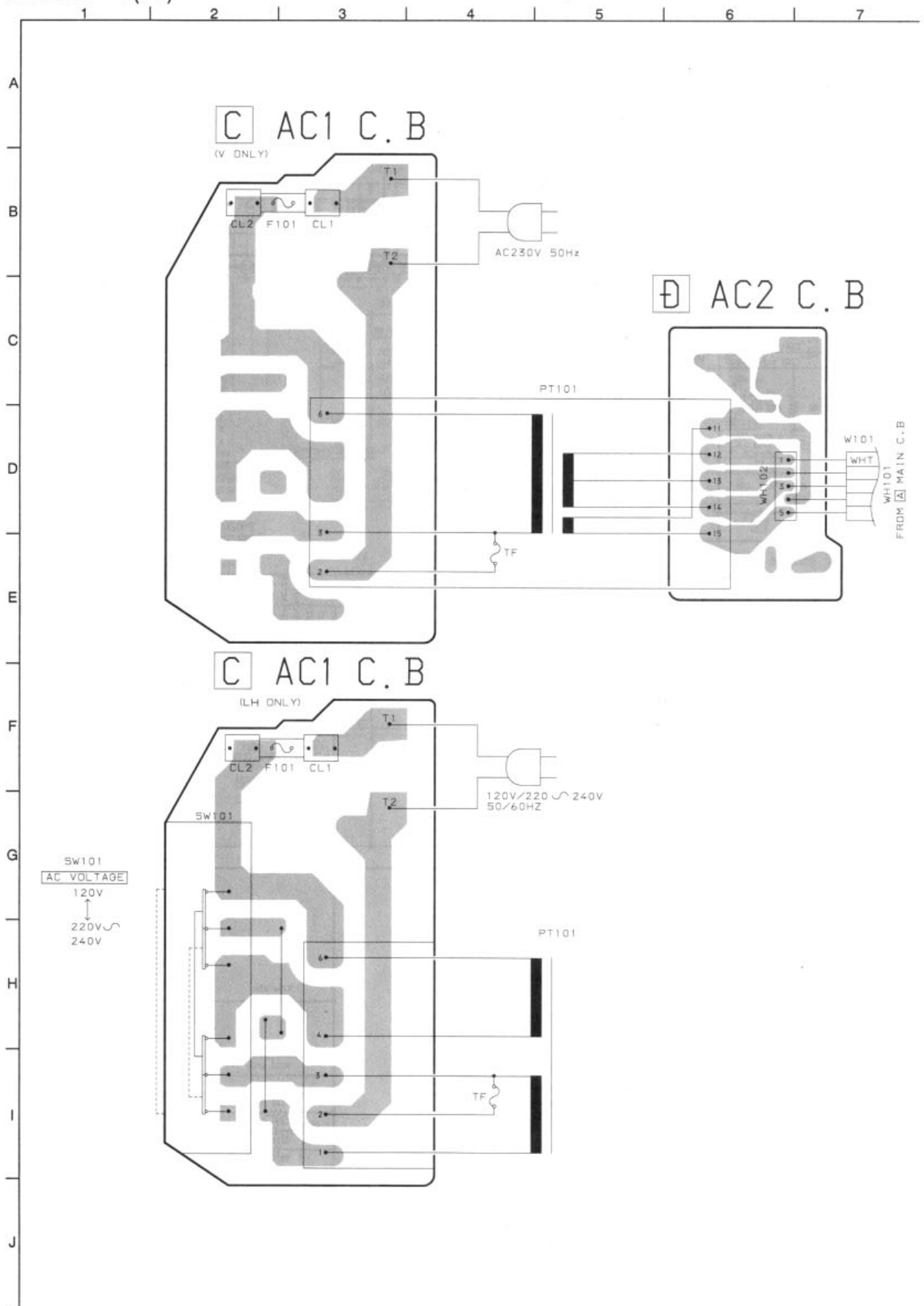
TO 3CB C.B.



SCHEMATIC DIAGRAM - 3 (FRONT)



WIRING - 4 (PT)



REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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