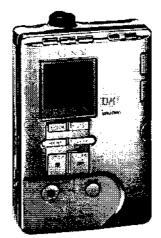
TCD-D100

SERVICE MANUAL



US Model Canadian Model AEP Model Australian Model Tourist Model



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MT-D100-128

SPECIFICATIONS

TAPE

Digital audio tape Recording time

Standard: 120minutes

Long-play mode: 240minutes (with DT-120) 48kHz, 44.1kHz, 32kHz

Sampling frequency Quantization

Standard: 16-bit linear

Long-play mode: 12-bit non linear

Standard: Fs 48kHz 20-22,000Hz (±1.0dB) (LJNE IN) Frequency response

Fs 44.1kHz 20-20,000Hz (±1.0dB) (LINE IN) Fs 32kHz 20-14,500Hz (±1.0dB) (L1NE IN) 1.ong-play mode: Fs32kHz 20-14,500Hz (±1.0dB) (LINE

Signal to noise ratio

Standard: more than 87dB Long-play mode: more than 87dB

(1kHz IHF-A, LINE IN) Standard: more than 87dB

Dynamic range Long-play mode: more than 87dB

(IkHz IHF-A, LINE IN)

Total harmonic distortion

Standard: less than 0.008% (1kHz, 22kHz LPF, LINE IN) Long-play mode: less than 0.09% (1kHz, 22kHz LPF,

Wow and flutter

Below measurable limit (less than ±0.001% W.PEAK)

Input	Jack type	Impedance	Rated input level	Minimum input level
MIC/	stereo minijack	MIC 4.7kΩ	MIC 1.4mV	MIC 0.3mV
LINE IN		LINE IN 47kΩ	LINE IN 500mV	LINE IN 120mV

Output	Jack type	Impedance	Rated output	Minimum output level	Load impedance
LINE OUT	steréu	220€2	500mV	-	LINE OUT 10kΩ
REMOTE /O	minijack	16Ω	87mV	15mW+15mW	PHONES16Ω

Input/Output

DIGITAL I/O REMOTE jack (special jack)

Digital input/ output, remote control operation and timer-activated operation is possible by connection

with an adaptor kit to this jack.

Power requirements

. Two R6 (size AA) alkaline batteries (not supplied)

Two nickel metal hydride rechargeable battery

DC IN 4.5V jack accepts:

the Sony AC power adaptor AC-E45HG the car battery cord DCC-E245 (not supplied)

for use with 12V/24V car battery. See "Replacing the batteries" (page 34).

Battery life 0.9W

Power consumption

Dimension

Mass

Approx. 80x29.2x117.3mm ($3\frac{1}{4} \times 1\frac{1}{2} \times 3\frac{1}{2}$ in)

(w/h/d) not incl. projecting parts and controls Main unit: Approx. 290g (10.3oz)

When using the main unit: Approx. 395g (14oz.) incl.headphones with remote control, rechargeable

batteries and a cassette

Supplied accessories

AC power adaptor AC-E45HG (1) Tourist Model: AC-E45AM

Charger adaptor BC-D100 (1)

Nickel Metal Hydride Rechargeable battery NH-D100 (2)

Headphones with a remote control (1) RM-ED100, MDR-E747

DAT cleaning cassette (1)

Carrying case (1)

DIGITAL AUDIO TAPE RECORDER





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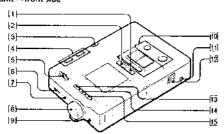
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Location and Function of Controls

Location and Function of Controls

Refer to the pages in () for details

Main unit --- front side



- [11] STARTID+MODE button
- 12 START ID-ENTER botton
- 3 LIGHT botton Press to dimminate the display when using the lape corder in the dark.
- [4] VOLDAII: +/- buttons (19)
- HOLD switch (12, 14, 19, 35) Hold function does not lock the CLOC K/SET, COUNTER/-, RESET74 buttons (except for the low-power consumption mode). Slide the switch to HOLD in the strip mode to enter the low-power consumption mode.
- [6] REMOTE/() (headphones) jack (19, 24, 3D)
- [7:] NE OUT (line output) jack (25,

- [8] REC LEVEL (rounding level) control (20)
- [9] MIC/LINE IN (microphone/line upput) jack (15, 22, 24)
- |10| Tape operation buttons; (17) |44| 44 (rewind/review + AMS)

 - button

 STOP button

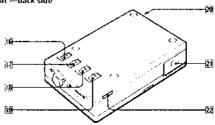
 PLAY button

 FIGST-forward/cue

 *** AMS) button
 - REC (record) botton
- [H] DC IN 4.5V (external power input) jack (36)
- [12] OPEN switch (13)
- [13] RESET7+ button (9, 38)
- [14] COUNTER/ button (9)
- [B] CLOCK/SET button (10, 12)

Location and Function of Controls (continued)

Main unit —back side



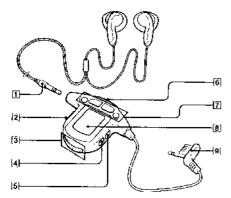
- [6] MIC ATT (microphone sensitivity)
- [17] MIC/LINE (N (microphone/line input) switch (16, 22)
- [18] MANUAL MIC LIMITER AUTO (AGC) selector (16, 22)
- SP41.P (standard play/long play mode select) switch (16, 23, 24)
- [20] REMOTE-DICITAL I/O (input/output) jack (23, 30, 37). Connect equipment with digital input/output using the connecting cable PXE-DA12F/11A12MF/DA12FI or RK-DA10F (not supplied), the adaptor kit RM-D101K, the remote control RMT-D100, or the super bit mapping adaptor RMS-Lett.
- Battery compartment lid (11)
- [22] AVLS (automatic volume limiter system) switch (31)

Location and Function of Controls 1.5'

Location and Function of Controls

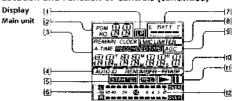
Loration and Function of Controls

Headphones with Remote Control



- [1] Stereo mini plug
- [2] COUNTER MODE button (9)
- [3] VOL +/- (volume) button (19)
- [4] CLOCK botton (10)
- [5] AVLS botton (31)
- [6] HOLD switch (12, 14, 19, 35) When you slide it to the direction of the arrow, the buttons on the remote control will be locked. But the COLNTER MODE, CLOCK and the AVLS buttons will operate.
- [7] TAPE operating buttons (17)
 - ►► (Fast forward/cue AMS)
 - 🖛 (play) botton
 - (stop) button
 - *** (Rewind/review*AMS)
- B Display
- [9] Remote plug

Location and Function of Controls (continued)



- [1] LP (Long Play) mode indicator (16, 25)
- [2] PGM.NO (program number)*day *AM/PM indicator (12, 20)
- [3] Tape counter/clock/volume/ message indicator (9, 10, 39)
- [4] START ID (automatic Start ID*remimber*erase signal) indicator (26)
- [5] START ID indicator (26)
- 6 Peak level indicator (24)
- [7] BATT (remaining battery power status) indicator (34)
- [8] MIC LIMITER indicator
- [9] ACC indicator
- [10] REC (recording) indicator
- [14] If (pause) indicator
- 🗓 📂 (playback) milicator

Remote control



- T PGM.NO (program mumber)*day*AM/PM*volume
- [2] Moisture condensation indicator
- [3] Tape counter/clock indicator
- [4] START ID indicator
- 5 Peak level indicator
- [6] ← (battery power status) indicator
- [7] AVLS indicator
- [8] J.P II ong Playt mode indicator
- [9] DOLD indicator
- [JØ] II (pause) indicator
- [ff] 📂 (playback) indicator [2] REC (recording) indicator

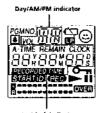
Location and Function of Controls

—3—





Remote control



Tape counter/clock indicator

Note

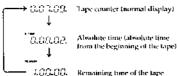
Note
The tape counter is
provided as a cisual
guide has a cisual
guide has and is out a
clock. The value
displayed in the counter
is not an accorate
depiction of the actual
time. Therefore, do not
use the tape counter as a
clock.

Tape counter/clock indicator

Tape counter display

Each time the COUNTER Inflor is pressed (on the remote control, the COUNTER MODE button), the display changes as follows:

Example: indication on the main unit



To reset the tape counter (normal display) to "OHOOMOOS"

Press the RESET button on the main unit when the tape counter is displayed.

Remaining time of the tape

The remaining time of the tape appears normally after about 16 seconds of commencing playback in the SP mode. However, there may be a deviation in the amount of time displayed depending on the tape* The RECORDED TIME is all and averaged white record ORDED is displayed while playing back only

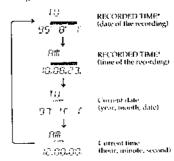
Location and Function of Controls

When the tape-corder enters the recording, repording monitor, or pance mode white RECORDED TIME is indicated, the tape-corder displays the current time.

Message display Refer to page 34 for "Message Display"

Clock display

Each time the CLOCK/SET button is pressed ton the remote control. the CLOCK button), the display changes as follows:



Location and Function of Controls $\parallel 9^{\text{EV}}$

Location and

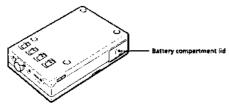
Ē,

Controls / Inserting the Batteries

Location and Function of Controls

Inserting the Batteries

Use two LR6 (size AA) alkaline batteries



You may also use the rechargeable battery or the house current. For more details see "Power Sources", page 32.





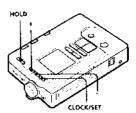
Insert two new alkaline batteries (not supplied) into the hattery bolder. Make sure to insert them with correct polarity.



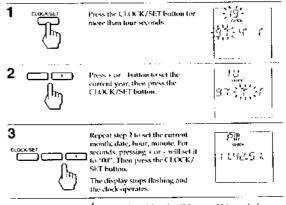
Setting the Clock

Set the clock before starting any recording operations to stamp the date and time. Officewee, you cannot get the correct date and time.

and time.
The clock will neturn to its
default setting (711/97)436112/
AM12E100M089) if the batteries
are removed from the unit for a
long time, in this case, set the
clock again.



Make sure that the tape-corder is in the stop mode and that the HOLD function is off.



Tim

Yn set the clock accurately, set the second to 100 with the + or - button, and then press the CLAXIX/SET button at the time of the

To select either the 12-hour or 24-hour clock

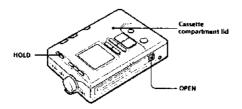
Press the + button (or 2 seconds or more.

To quit the clock setting
Press the STOP button. The clock deplay will
return to the previous clock setting. However, if the
date is set, the year, mouth and date will be set and
will not be applicable for further cancellation.

Inserting the Batteries | 11th

Setting the Clock

Inserting the Cassette



Make sure that the HOLO function is off.



Open the cassette compartment

① Slide the OPEN switch.

② Open the cassette compartment lid when it opens slightly.



Setting the Clock / Inserting the Cassetts



Insert the cassette

Jusert the cassette with the window facing up. If the cassette is inserted upside down, it may not be removed from the unit.



3



Close the lid

The cassette is loaded automatically.



Inserting the Cassette | 13"

Inserting the

Inserting the Cassette

- Notes

 The cassetie holder will not open if HOLD is locked Release HOLD to unsert a cassetie

 When inserting or taking out a cassetie, do not hold the casset as shown below. This may lead to a mailfunction.



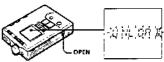
Make sure that the classedte compartment lid is closed and "UN, QR2" or "CQR2" is not displayed before disconnecting the power source. Otherwise, the cassette compartment lid may not close in this case, connect the power source again.

Tip While the tape-corder is in the stop mode, slide the HOLD switch on the main must be HOLD in ener the low-power consumption mode manually when using the unit on batteries (See page 34.)

You can set the display clock or AVLS

To eject the cassette

While the tape-corder is in the stop mode, slide the OPEN switch



To protect your recording

Slide open the record-protect shutter to recordprotect your tape.



Notes on DAT cassettes

Unlike conventional analog cassettes, playback and recording are applicable on one side of the cassette

if the shutter is closed, you can record on the tape.

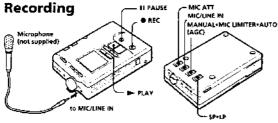
- Under normal usage, the construction of the DAT cassette prevents undesirable entry of dust and foreign particles. Do not open the DAT cassette
- unnecessarily

 Do not insert items into the holes on the reverse side of the DAT cassette.

To prevent accidental operations HOLD function

Main unit: Slide the HOLD switch until the yellow hold mark shows. When a button is pressed in the HOLD mode, "HOLD" will flash for 3 seconds in the display and the buttons will be locked".

Remote control: Slide HOLD switch in the direction of the arrow. "Om" will light up in the display and the buttons will be locked.



Refer to page 22 for "Connecting with Other Equipment for Recording"

- Note
 The absolute time may not be written correctly in the tollowing cases.

 When recording on a partially recorded tape containing an unaccorded segment (i.e. a portion of the tape that has no er born recorded).

 When recording or a partially recorded tape for which the absolute time has not been written originally.

Do not press the #STOP button when "Ball Store" i deeplayed. He is pressed, the absolute time will become "sHoMoS" and will not be written.

Locating the point at which to begin recording

The absolute time is automatically written simultaneously while recording.

simultaneously with recurring. The absolute time is indicated as the length of time from the beginning of the lape, and is useful in determining the elapsed time from the beginning of the tape. If you wash to continue to record on a partially recorded tape, make sure that you initially locate the end of the previous recording prior to resuming recording room that point to avoid leaving any unrecorded segment unnecessarily. Once the absolute time is written, it cannot be crassed.

If you wish to insert a four-second blank segment automatically, refer to page 25 for "Recording blank segment—REC MUTE".

To record from the beginning of the tape Press the I all button to rewind the tape. flashes when the tape is rewound to the beginning.

To record on a partially recorded tape

Press the FF button to locate the end of the previous recording, " $E \in BUP$ " appears when the end of the previous recording is located, and the tape stops at the point. When "— —" flashes for the program number

when — — hashes for the program number
"—" indicates an unrecorded segment. Press the

✓— button to rewind the tape until "——" stops

Bashing. Then, press the ▶▶ ▶ button to locate the
end of the previous recording.



Recording from a microphone

Insert a cassette and locate the point at which to begin recording.

2

Set the MIC/LINE IN switch to MIC.



Set the MIC ATT switch. 0 dB: Normal 20 dB:For loud sound



Set the MANUAL+MIC LIMITER+AUTO (AGC) selector to AUTO (AGC). The tape-corder adjusts the recording level automatically

To adjust the recording level manually, set the selector to MANUAL or MIC LIMITER. (See page 24.)



Select the sampling frequency Set the SP+LP switch to SP (Standard Play mode 46 kHz or 44.1 kHz).

To record in the Long Play mode, set the switch to LP. (See page 25.)

16^r

Recording

6

Press the REC and II PAUSE

The tape-corder enters the pause mode. If only the TREC button is pressed, the tape-corder enters the recording monitor mode (see page 25) and does not begin recording.

Press either the PLAY or PAUSE button.

The recording begins.

- Tips

 To begin recording immediately, press the

 → PLA D button while pressing the ◆ REC button in the stop or playback mode.

 The sampling frequency is changed during recording and recording pause. If the lates-corder
- passe

 If the tape-corder remons in the pause mode for two minutes or longer, the tape-corder will enter the stop mode automatically in order to protect the head and tape.
- If the tape-corder It the tapes coder remains in the stop mode for three minutes or longer while using the unit on batteries, the tapes corder will enter the lose power and automatically (see page 3%) to protect the tape and to conserve the battery.

Other enerations

то	Press
Stop recording	■ STOP
Pause recording	O PAUSE
Release pouse	II FAUSE or ► PLAY
Check the input source: in the recording mode in the recording monitor mode in the recording pause mode	REC Press the botton until the imput source display appress.
Check the sampling	PLAY in the recordin

frequency

mode until the sampling frequency is displayed.



Recording (17"

Recording / Playing

18" | Recording

Tip

When the tape-corder records to the end of the tape, it rewinds the tape automatically to the beginning and stops. (Auto-rewind function).

- Notes
 The unit will not enter the The unit will not enter the low-spower consumption mode during the mode, committee mode, even when using the unit on batteries. Changing the sampling frequency while recording may cause temporary sound dropout to be recorded.

 Notes may be recorded if

- temporary sound arropout to be recorded if you set the MC/LINE BY would during recording. Noise may be recording. Noise may be recording the may be recorded when the display light is turned on white recording. In this case, turn it off if ISEB appears when the recording mode is set to AUTO LAGC, set the MIC ATT to 20dB or move the microphone away from the sound source.

To record relatively low sounds

Lower the recording level (in the manual recording mode) and move the microphone as close as possible to the sound source and then adjust the recording level. Clear and optimum recording with minimal noise interferences will be achieved.

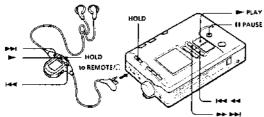
Choosing microphones for better recording

The recording is affected by and is dependent upon the type of microphones used. For better recording, use the optional ECM-MS957 or ECM-MS907. microphone.

Compatible microphones

- Optional plug-in power type microphones are compatible for this tape-corder.
- Optional auto power supply type microphones are not compatible for this tape-corder.

Playing Back



Refer to page 30 for "Connecting with Other Equipment for Playback"

1 Insert a cassette and connect the headphones with remote control. Release the Hold function 2

Press the PLAY button. The playback bugins.

<u>~~</u>; aoaoa

- Tips

 The SP (Standard Place) mode and LP (Long Play Imode will be detected automatically for play back.

 When the stope-corder plays back to the end of the tape, it even old the tape automatically to the beginning and stops (Auto-rewind function).

 The pause playback cannot be operated with the remote control.

Other operations

To	Press
Adjust the Volume	VOLUME = 7= (VOL + 7=)
Stop playback	■ STOP (■)
Pause playback	II PAUSE
Release pause	II PAUSE or 🖛 PLAY (🖛)
Fast forward	► ► I (► ►) in the stop mode
Rewand	in the stop mode

- Fips

 Hithe tape-corder remains in the pause mode for five minutes or longer, the tape-corder will automatically enter the tape and a point of the first management of the fir stop mode in order to protect the head and tape.
- In the tape-corder In the tape-corder remains in the stop mode for three minutes or longer while using the omt in batteries, the tape-corder will enter the low-power consumption mode automatically (see page 35) to protect the tape and to conserve the battery.

Notes

- When you set the recording level too high, the sound may become distorted. If this happens, turn down the recording level
- The AMS function will not operate if the Start IDs are not written if See page 2h.) The AMS function may
- not operate properly with a DAT cassette recorded on other DAT decks
- * Automotic Music Sensor

To fast-forward/rewind while monitoring the

You can fast-forward (cue) or rewind (review) while monitoring the sound.

Cue	Press and hold PP PPI (PPI)
	in the playback mode. When the
	button is released, normal
	playback resumes.
Review	Press and hold 44 44 144
	in the playback mode. When the
	button is released, normal
	playback resumes

the indicated for the remote control.

To high speed cue/review

This function can be operated only from the main unit.

High speed cue	Press P PLAY and PP PM during playback.
High speed review	Press PLAY and 44 44 doming playback.

To locate the beginning of a track—AMS* function

garckie. Fast-forward reward mode Press PP PP (PP) or PP 44 Hala come

nop mode Press 🏎 🖦 🚧 : 🎮 : er laa aa laa i twice To locate the beginning of the next succeeding program (track)

E.g. When booting the boot 25 beginning of the fifth succeeding 224 Press let et let conce

To locate the beginning of the current provious program (track)
E.g., When locating the repeatedly 735 When locating the beginning of the tourth previous track ~ 03 melading the current. program (track)

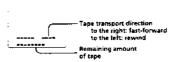
11 is indicated for the remote control

Press - PLAY in the playback mode until the sampling frequency is displayed.



Display during fast-forward/rewind (AMS

Peak level indicator (L) shows the tape transport direction. Peak level indicator (R) shows the remaining amount of tape.



To play back the tape from the beginning automatically—Auto-play function

This function can be operated only from the main

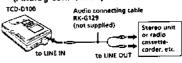
Tress the PLAY button while pressing the 144 44 button. Playback begins automatically when the tape is rewound to the beginning.

Likewise, playback begins automatically when the tape is rewound to the beginning of the previous program (track) in the AMS function.

Connecting with Other Equipment for Recording

You can connect the tape-corder to other analog audio equipment or audio equipment with digital output. Refer to page 15 for "Recording".

Recording from analog audio equipment with a LINE OUT jack (Analog connection)



- 1 Set the MIC/LINE IN switch to LINE IN.
- Select the recording mode using the MANUAL MIC LIMITER AUTO (AGC) selector. MANUAL: adjust recording level manually (see
 - AUTO (AGC):recording level will be adjusted automatically (see page 16)
- 3 Select sampling frequency using the SP+LP switch. SP (48kHz, 44.1kHz): normal recording mode. LP, long continuous recording mode. Sampling will be done by 32kHz. (see page 25)
- Press the REC and II PAUSE buttons.
- Press either the PLAY or II PAUSE button to begin recording. Then, begin playback of the connected source.

Playing Back | 21th

Playing

Bac

22^{f*} | Recording

- Notes

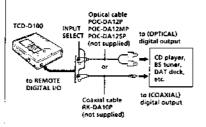
 In Commentum is imis displayed, the source cannot be recorded.

 (See page 36)
- Use only the Use only the recommended digital cable tool supplied) (see page 47). You cannot use the POC-DA12/DA12M/DA12S digital connecting cables or RN-DA40 coaxial cable see this unit.
- RK-DA10 conxial capie with this unit.
 Make sure to set the INPUT SELECT switch of the connecting cable to DIGITAL before recording. Switching to DIGITAL before tecording. Switching the digital/analog switch during seconding will cause a short mute in the recording

In dignal connection, note the following:

- he following: Setting the recording mode is not required
- mode is not respired The recording level is set automatically to the level of the source Manual adjustment is not available in this Case.
- Gase.
 Setting of the SP+LP switch is applicable when recording a 32 kHz source only (00/hen set to SP, the source is recorded in (When set to SP, the source is recorded in the 32 kHz SP mode) when set to LP, the source is recorded in the 32 kHz LP mode.) Other sources will be automatically recorded in its own sampling frequency regardless of the SP+LP soutch. In this case, you cannot record in the LP mode.

Recording from audio equipment with digital output (Digital connection)



- 1 Use and connect the optical cable or coaxial cable according to the digital output jack of the connected equipment.
- 2 Set the INPUT SELECT switch of the connecting
- Press the REC and II PAUSE buttons.
- 4 Press either the PLAY or II PAUSE button to begin recording. Then, begin playback of the connected source.

Source and sampling frequency for recording

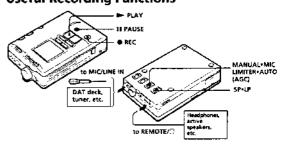
When recording with digital connection, the sources will be automatically recorded in its own sampling framework shows below.

Source	Sampling trequency
Broadcasting satellite B mode audio	46 kHz
DAT SP mode	
CD	44 7 KH2
MD	
DATSP mode	
Broadcasting satellite A mode	32 kW/
audio	
DAT LIT mode	

Recording | 23^{rs}

24th | Recording

Useful Recording Functions



What's the MIC LIMITER?

The MIC LIMITER automatically holds down autematically holds down sudden large input signals. Setting the recording mode to MIC LIMITER and setting the recording level slightly higher than the usual level will give good results when recording at parties or conferences.

- Notes

 Manual adjustment of the trecording level is unavailable when recording a digital connection.

 Recording level is set excessively high when GUEB appears in the right side of the peak, level indicator. Turn down the recording level.



It distortion still occurs to ben EVEE is not displayed, set the MIC ATT seach to Liddle or move the microphone away from the sound source.

Adjusting the recording level manually-Manual recording

For optimum recording with microphones or from analog audio equipment, adjust the recording level manually.

- 1 Set the MANUAL MIC LIMITER AUTO (AGC) switch to MANUAL or MIC LIMITER. MANUAL: to record via analog connection or microphones.
 MIC LIMITER, to record via microphones.
- 2 Press the REC button to enter the recording
- Begin playback of the source and turn the REC LEVEL control to adjust the recording level while monitoring the sound.

Turn the REC LEVEL control so that the peak maintained around level (9). level indicators are Make sure that even does Peak level indicator not appear when there is a loud sound input.



4 Press the PEAY button while pressing the REC button to begin recording

– 7 ---

- A tape recorded in the LP mode cannot be played back on a DAT deck which is not equipped with the LP mode function.
- aguityped with the Li mode function A loud noise may be heard during the 1st ransition from the Ir mode to the LP mode when a days containing been swelched from the SP mode to the LP mode halfway is played back on a DAI deck which is not equipped with the LP mode function. In this case, turn down the wolume or stop playback.

Tip
To insert a blank segment
of a seconds or more,
press the H PAUSE
button while pressing the
REC button, and then
held clown only the
H PAUSE button for 4
seconds or longer. When
the blank segment
exceeds four seconds.
I'll "indicator will flash
quilkly The tapes-cords
recenters the pause mode
when the H PAUSE
button is rekosed.

Recording in the Long Play mode—LP REC

Set the SP+LP switch to LP to record twice the recording time of conventional DAT cassettes.

Accordingly, a 60-minute DAT cassette recorded in the LP mode enables recording of 120 minutes.

Tape counter display during LP mode

The absolute time and the remaining time of the tape are based on the SP mode. Therefore, the actual time is twice the amount of the value shown on the display



Recording blank segments—REC MUTE

A blank segment can be inserted at the beginning of the track and between tracks. In this case, the Siari ID

- Press the REC button and the II PAUSE button to enter the recording pause mode.
- 2 Press the \$1 PAUSE button while pressing the REC button.

A four-second blank segment is inserted and the unit returns to the recording pause mode automatically.

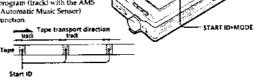
Monitoring the recording

Use the headphones or speakers of the stereo unit to monitor the sound while recording.

- Plug the headphones to the REMOTE/O jack or the stereo unit to the LINE OUT jack of the tapecorder.
- 2 Begin recording.

Writing Start IDs

A Start ID is a signal which indicates the beginning of a program (track). The tapecorder searches the Start IDs to locate the beginning of a program (track) with the AMS (Automatic Music Sensor) function.



- Tips

 To write the Start ID

 manually during
 recording, press the
 START ID-ENTER
 button. The Start ID is
 writen at the point
 where the START
 ID-ENTER button is
 pressed recardless of pressed regardless of whether "AUTO-ID" displayed or not.
- oisplayed or not.
 You can only switch
 AUTD-ID on or off
 when START
 ID-MODE is pressed
 during recording,
 recording monitor or
 recording pause modes

Note

 The buttons except the STOP button do not work while STARSED is flashing

Writing Start IDs during recording

When ALTO-ID is turned on, the Start IDs will be written during recording on the basis of the output level of the source. When AUTO-ID is turned off, the Start IDs will be written during recording on the basis of the existing ID information of the source.

- 1 Press the START ID+MODE button on the main unit repeatedly until "AUTO-ID" appears (to turn on AUTO-ID) or disappears (to turn off AUTO-ID).
- A D (1940).

 Begin the recording. When the Start ID is written, "go? 176" appears for a moment, and then STAGED flashes for about 9 seconds (about 18 seconds in the LP mode).



START ID-ENTER

Recording | 25th

26th Recording

Notes

- When AUTO-ID is turned on, the Start ID may not be written properly if there is noise in the sound source.
- when writing Start IDs continuously, make sore that there is an interval of 4 seconds or longer 10 seconds may not locate the beginning of a track correctly.

 When ALTO-ID is turned off during digital connection, the existing program (track) information of the CD may not be written properly as the Start ID depending on the CD place in use.

 The existing program intack) information of an MD is not written as the Start ID and make in the CD place in use. When writing Start IDs

- Start IDs which were Start IDs which were written during, recording or writen after the selected point cannot be moved. To move the Start IDs, rewriter a direct easing.
 Start IDs cannot be written white ISTEP22 is Eashing rapidly during the Richarsal function.

To write Start ID when AUTO-ID is turned on

Source	A Start ID is written when
All	 Recording begins or the recording pause is released. (During a soundless segment.) Start ID is written at the point where sound is emitted.)

- A sound is input after a soundless segme or a segment with a very low recording level or 3 seconds or longer. The START ID-ENTER button is pressed
- during recording

Source	A Start ID is written when
All	 Recording begins or the recording pause is released. Start ID is written regardless of whether the segment contains a sound or not.) The START ID-ENTER button is pressed during recording.
CO plaver Idigital inpu	Identical to the existing track (i) information of the CD. (In addition to the above.)
DAT placer Idogital inpu	identical to the existing track information of the DAT tape. (In addition to the above.)

Writing Start IDs during playback

You can write a Start ID anywhere you want without erasing the contents of the existing recording.

- 1 Press the START ID+MODE button on the main that repeatedly until "AUTO ID" appears to turn on AUTO-ID) or disappears to turn off AUTO-ID.
- 2 Press the START ID*ENTER button during playback where you want to rewrite.

"#E of 50%" flashes when you select the point for Start ID. The tape-corder plays back the segment of the tape up to 3 seconds from the point and repeats it 16 times (Rehearsal

nction)



If a Start ID is erased, the program number which is written on the same point will be erased also.

3 Press the START ID • ENTER button during rress the START ID・ENTER button during Reheartal function. "ロボットで" will appear for a moment. "野球電" will flash and the Start ID will be written. During this step the sound will be muted.

To adjust the selected point

To adjust the secretar point.

Each time you press the IMM and or IMM IMM button, the selected point shifts backwards or forwards in 0.3-second increments, up to a maximum extent of about 10 seconds in either direction.



Erasing Start IDs

You can erase the Start IDs without erasing the contents of the existing recording.

Erasing the Start ID is possible only when the tapecorder is in the stop or playback mode.

- 1 Press the >> >> or feet and button to locate the Start ID you want to erase.
- 2 Press the START ID MODE button repeatedly until "ERASE" appears in the display of the main
- 3 Press the START ID-ENTER button.



The tape will automatically rewind to find the Start ID or that program (track) and then [SEREO] will flash in the display and start to crase the Start ID. During this step the sound will be muted. Playback will start when this mode is

Recording | 2744

28" | Recording

A program number is signal which indicates the number of the program (track).

The program number is written at the same time as the Start ID.

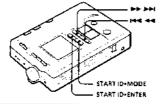
Note

Note
Writing and renumbering
of the program number
may not be completed
successfully to a type that
has been recorded on
other DAT decks and has
a start ID at the
beginning.

Renumbering is necessary for the following tapes: • On which the Start ID

was written during plackack

Which has missing program numbers or duplicated program numbers because the tope is recorded from the halfway of it Which has a missing program number beer use the program number was crased at the same time a Start ID was crased on the tape.



When recording from the beginning of the tape

The program number is written automatically from number 1 in sequential order at the same time as the Start ID.

When recording from the halfway of the tape. Press the PP PM or PM 44 button to display the program number before you begin recording. The program number is written in sequential order from the following program at the same time the Start ID is written.

Renumbering the program number

- Press the START ID MODE botton repeatedly until "RI NUMBER" appears in the display of the main unit.
- 2 Press the START ID*ENTER button when the tapecorder is in the stop or playback mode. The tape will automatically rewind to the beginning of the program number that was written with the Stat! ID and then starts to renumber the program (tracks).

STAGEO " flashes while the program number is renumbered program number is renumbered and "BEHUM" and the tape counter appears while the lape is fast torwarding to the next Start 1D program (track). When the renumbering operation is completed, the tape-conder rewinds the tape to the beginning and stops.

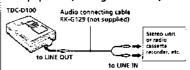
Note Note
Lse only the
recommended optical
cable their supplied)
(page 47)
You cannot use the
POC-DA (2/DA (2M)
DA 125 digital
connecting cables or
RN-DA 10 coaxial cable
with this unit

Playback

Connecting with Other Equipment for Playback

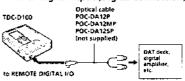
You can connect the tape-corder to other analog audio equipment and audio equipment with digital output. Refer to page 19 for "Playing Back".

Playback with an analog audio The output level of the LINE OUT jack and the REMOTE DIGITAL 1/O jack is fixed. The volume cannot be adjusted with the VOLUME buttons of this lape-corder. equipment (Analog connection)



Begin playback and adjust the volume of the connected equipment

Playback with an audio equipment with digital input (Digital connection)

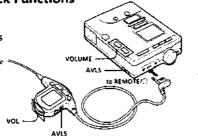


Connect the digital audio equipment to this tape corder as shown. Begin playback and adjust the volume of the connected equipment.

Recording | 29**

Piayoaca

Useful Playback Functions The AVLS* function is operational when using the headphones during playback or in the recording manutor made.
The AVLS function keep to project your ears.



Auto Volume Limiter System

You may operate the AVLS function on both the main unit or the remote control. You can cancel AVLS by pressing AVLS on the remote control even if the AVLS switch on the mail unit is set to LIMIT "@" will disappear from the remote display and AVLS will be cancelled

Using the AVLS function

Operational either from the main unit or the remote control.

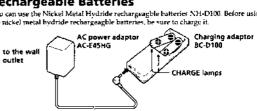
Main unit: Set the AVLS switch to LIMIT

Remote control: Press AVLS on the remote control. "\$" will be displayed in the window of the remote control.

AVLS switch	Volume and display
LIMIT (@)	The maximum volume is restricted to
	a designated level.
	" $B(\hat{\mathcal{H}}, \mathfrak{h})$ " appears followed by
	" 45%" when the VOLUME button is
	pressed. When the volume is turned
	to the maximum level, "A 70.5"
	flashes.
NORM (none)	The volume control is set to normal.
	Each time you press the VOLUME
	buttons, the volume level changes
	accordingly and " "C" appears
	When the volume is turned to the
	maximum level, " # Rit " appears.
. I to to discuss differen	

Using the unit on Nickel Metal Hydride Rechargeable Batteries

You can use the Nickel Metal Hydride rechargeagble batteries NH-D100. Before using the nickel metal hydride rechargeagble batteries, be sure to charge it.



Notes

- Notes

 Use only the recommended rechargeable battery, charging adapter and AC power adapter for charging It you use other types of charging equipmes malfunction
- When the CHARGE When the CHARGE lamp flashes a red light, remove the rechargeable battery and check the polarity and the condition of the fatteries. If there is no problem with the battery, try to charge them again You cannot charge a dry battery or a fully-charged rechargeable battery.

- Connect the charging adaptor BC-D100 to the AC power adaptor AC-E45HG and then connect the AC power adaptor to a wall outlet.
- Insert the nickel metal hydride rechargeable batteries NH-D100 into the charging compartment.

The CHARGE lamp will light red during charging. After the charging has been completed, the CHARGE lamp will light green. Charging will take about 2.5 hours. (The charging time may vary depending on the temperature.)

3 Insert the charged batteries into the battery compartment of the main unit.

- · Charge the battery just before using it
- Charge the batteries that are completely exhausted (when " $\phi STTEPT$ " starts to flash in the display of the main unit).
- Charging may take longer than the average charging time if you are charging it for the first time or if you have not used the battery for a long time The charging time will become average after you have charged it a few times

On rechargeable batteries

- · When the battery life of a fully charged battery becomes short, replace the rechargeable batteries with new ones.
- Be sure to cover the poles of the used batteries with elastic tape to insulate it and then dispose the used

Playback | 31th

– 9 –

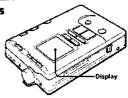
Note

Remove the rechargeable batteries as soon as possible from the charging adaptor when charging is finished. If you leave the rechargeable batteries in the charging adaptor for a long period of bine it may decrease the battery capacity.

On battery placement

Store the batteries in a cool, dry place.

Replacing the batteries



- Tips
 This sape-corder is not equipped with a power swotch. As a result, the LCD display will always be rurned on as long as the batteries are inserted. However, power consumption is minimal and negligible.
 The clock will return to us default setting (TU/97Y4MID/AM12H00M005) if the
- 9/ 14/01107 AM12H00M005) if the batteries are removed from the tape-corder for a long time. In this case, set the clock again.

Notes

- |{"5871\$69" is still displayed after replacing the batteries press any button to clear this display.
- When using the unit on hatteries, do not use a dry hattery and a rechargeable battery
- together.
 The battery life may shorten depending on the temperature and the type of the battery. may not be displayed depending on the type of hattery. Use the recommended NH-D100
- recommended is re-disc.
 battery
 type, to plug is connected to
 the UNE OUT, REMOTE (C)
 or the REMOTE *DIGIT 41.17
 C) sets and the display
 backlight surned off

When to replace the batteries

The status of the remaining battery power is displayed on the main unit. On the remote display, "Cu" will flash or appear when the batteries become weak.

Display on the main unit



œ

Replace both batteries with new

ones.
"BRT TEPS" flashes and the tapecorder stops when used beyond this point.

Display on the remote control

The batteries are weak. Replace both batteries with new ones. · 🕁:

The batteries are completely exhausted

(Approx hours) Battery life Battery Playback Recording Sony nickel metal hydride rechargeable (NH-D100) 3 (3.5°) 3.75 1.5 (2.51) Sony alkaline LRo (size AA)

Values for harriest life at 2000 and for long combinious playback or seconding assuming
Bayers capacity decreases and battery life becomes shower in low
temperatures.

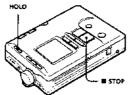
Power Sources | 33^{ss}

Power Sources

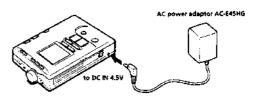
34th | Power Sources

Low-power Consumption Mode

If the tape-corder remains in the stop mode for 3 minutes* or longer, it will enter the lowpower consumption mode automatically to conserve the battery.



Operating with the AC Power Adaptor or **Car Battery**



- Tips

 When the AC power adaptor or the car bettery cord is connected to the DC IN 4.5V jack of the tape-corder, the internal betteries are automatically disconnected. Power is automatically supplied from the external power source.
- nom the external power source.

 When the AC power plug or the car battery cord is used for an extended period of time, the internal temperature of the tape-corder may rise. This is not a malfunction.
- malforaction.

 If the unit is in the stop mode for more than 10 minutes withe using the house current or a car battery. The set functions will be conceled and the tape will be unleaded for tape protection.

Using the AC power adaptor

Connect the AC power adapter AC-E45HG to the DC IN 4.5V jack.

Notes on the AC power adaptor

• Use only the AC-E45HG AC power adaptor. Do not use any other AC power adaptor.



sure that the cassette compartment hdis Make sure that the cassette compartment his is closed before disconnecting the AC power adaptor or removing the batteries. The cassette compartment lid may not close if the power source is disconnected or removed while the cassette compartment lid is open. In this case, connect the power adaptor or insert the batteries again.

Using the car battery

To operate the tape-corder with the car battery, connect the car battery cord Sony DCC-E245 (not supplied) to the DC IN 4.5V jack of the tape-corder. For more details, refer to its Operating Instructions manual

The unit will enter the low-power consumption mode when the cassette holder is open for about 30 seconds. When the CLOCK histon etc. is nessed. When the CLOCK button, etc., is pressed during a low-power consumption mode, the unit will re-enter the kon-power consumption mode in about 30 seconds

When the unit automatically switches to the lowpower consumption mode The tape unloads automatically to protect the tape and

the lape-intodus automatically to protect the lape and the lape-conder enters the low-power consumption mode to conserve the battery when the tape-corder is in the stop mode for 3 minutes* or longer. In the low-power consumption mode, the display changes to the clock and the backlight turns off. On the remote control the display is turned off.

To enter the low-power consumption mode

- manually

 1 Make sure that the tape-corder is in the stop mode. Press the STOP button if the tape-corder is in the pause mode.
- 2 Slide the HOLD switch on the main unit to show the yellow hold mark.

The tape-corder enters the low-power consumption mode.

When you press a button " $BO(3^{\circ})$ " will flash for a few seconds in the display.

Connecting with Other Equipment

Connect other equipment to this tape-corder to enable flexible use of the tape-corder.

Notes on using the optional RM-D190K

- Operate this tape-corder with the AC corder with the As. power adaptor Wireless remote control functions and digital input/output connections may not operate properly when the unit is operating on
- batteries.
 Do not leave the RM-D100K in a place subject to direct sunlight, as this may lead to a malturchon.

Note on using the SBM-1

SBM-1 When operating the optional SBM-1 with AC power adaptor, the power is supplied from this lapacered in the specied of the SBM-1 is turned off. When this tape-corder is operated with batteries, discennect the AC power adaptor from the SBM-1 to conserve the battery.

Using the optional system adaptor kit RM-D100K

The optional RM-D200K functions as a relay unibetween an equipment with digital I/O jack and this tape-corder.

The RM-D100K supports input/output of both optical and coaxial cables. Connect according to the jack of the digital audio equipment you wish to connect.

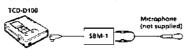
TCD-D100 to (OPTICAL) I/O RM-0100K CD, MD, etc. to (COAXIAL) I/O

When the RM-D100K is connected

Combining the unit with a audio timer for timer recording or playback, and using the Music Scan function or Direct Search function on the supplied remote commander are many of the noteworthy features of the RM-D300K.

Using the optional Super Bit Mapping adaptor SBM-1

The optional SBM-1 enables recording of higher quality when connected to this tape-corder



The optional RMT-D180 can be connected to the SBM-1 to enable remote control.

However, when operating the SBM-1 with the batteries, the RMT-D100 is not operational if the power of the SBM-1 is turned off. When operating the SBM-1 with the AC power adaptor, the RMT-D100 is operational regardless of whether the power of the SBM-1 is turned on or off.

Additional Information | 37^t

Additional Information

Sources

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Serial Copy Management System (SCMS)

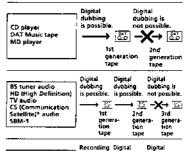
The Serial Copy Management System (SCMS) which is incorporated in the domestic DAT equipments prevents repeated digital dubbing from one equipment to another However, this system lets you record at least one generation of digital prefeconded software via digital connections.

- Notes

 If the equipment used for recording is not printected with the SCMS, these rules may not apply

 Even if digital dubling is impossible, you can still dub topes via mailog connections.
- When digital dubbing is not possible, the message "100" and possible will appear
- These source examples may not apply to some countries

Tip
During recording,
tecording monitor or
recording pause modes,
you can confirm the
copy data that is going
to be written on the tare.
Doning playback or
playback pause modes,
you can confirm the
copy data that is written
on the tape.



Recording Digital via analog dubbing inputs is possible. Microphone Record player Radio tuner E → E -X→ E. 3rd genera-tion tape etc.

Confirming the copy data

You can confirm if digital copying is possible or not. Hold down the RESET button during recording, recording monitor, playback, or pause modes when the tape counter is not displayed and then press the COUNTER button for more than 2 seronds.

-26 80: Digital copying is possible as many times as you want.

12.6 ID: Digital copying is not possible.

126 15 Digital copying is possible only once To clear the display , press the CLOCK, COUNTER or

Message Display

The following messages will be displayed on the main unit while operating this unit.

Message	Description
NG TAPE	Flashes when there is no tape inside the unit.
OPEN	Flashes when the cassette compartment lid is open.
LOSI	Flashes while loading a tape.
NeinPUI	Flashes when unloading a tape.
UNL OR B	Flashes when the digital input signal is not received.
SORY PROHIST	COPY and FROMIST appears alternately when the SCMS signal is received.
	IBPE, and PPGIEC! appears alternately when the REC
1826 PROTECT	button is pressed or when writing/crasing a Start ID in the
	playback mode using a tape whose record-protect shutter is open.
HCL D	Flashes for a moment when you set the HOLD switch to
**************************************	HOLD on the main unit. Appears or flashes when you press
	a button while the HOLD function is operating.
TOP	Flashes when the beginning of a tape" is reached.
END	Flashes when the end of the tape is reached.
EE END	Appears when the End ID* is detected.
St BNF	Flashes when the unrecorded segment of a tape is detected
DE IIII	during playback or fast-forwarding.
@ : C : 1/2	Appears when the REC button is held down during MIC
	recording, recording pause, recording monitor modes.
LINE IN	Appears when the REC button is held down during
	recording pause or recording monitor modes while another
	equipment is connected via the analog connection.
#15:18:	Appears when the REC button is held down in the
2.0	tecording pause or recording monitor modes while another
	equipment is connected via the digital connection.
#PITE	Appears when the Start IDs are being written.
веневас	Flashes when the Start ID is pressed during playback mode
	in the rehearsal function.
<i>E ភព</i> ទុ <i>E</i>	Flashes when the Start IDs are being crased.
ខ្គងប្រា	Flashes when the program numbers are being renumbered.
में भा ५	Flashes when the AVLS is set to LIMIT, or when the AVLS is
	operating and the VOLUME button is pressed.

#R#	Appears when volume is set to the maximum level.
# 114	Appears when volume is set to the minimum level.
6811689	Flashes when the batteries are weak.
176	Appears when a digital copy data is displayed.
	III: Digital copying is possible as many times as you want.
	(U: Digital copying is not possible.
	it: Digital copying is possible only once.
#E#	Appears when moisture condensation occurs inside the unit.
'1 Flashes when a new	(virgin) tape is used for the first time.

Triasms when a new Veriging daps is used on the first time.

2*The Emd Dis a signal which indicates the position of a tape where the recording has ended. You cannot register the End IDs with this unit, however the unit can play back the tapes which are registered with the End IDs and detect them. When the unit detects an End ID during fast forward it stops there. You can only forward the tape by recording from that point. When the unit detects an End ID during playback, it enters the auto-rewind mode

Additional Information 1 39

40'

1 Additional Information

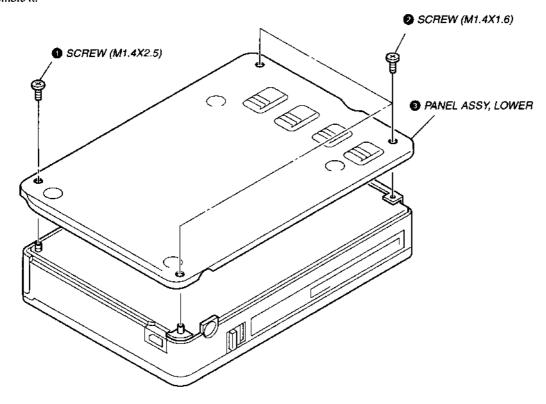
SECTION 2 DISASSEMBLY

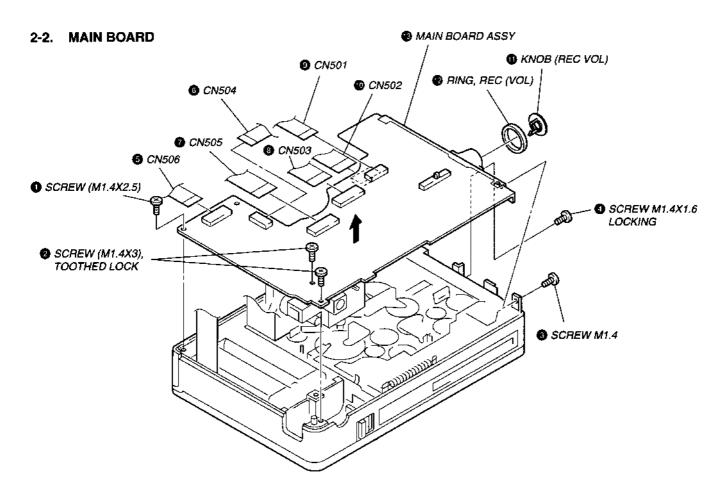
SET → PANEL ASSY, LOWER → MAIN BOARD → LID ASSY, CASSETE → PC BOARD UNIT, SYSTEM CONTROL

CABINET → BRACKET ASSY, MD → CHASSIS ASSY → DRUM ASSY

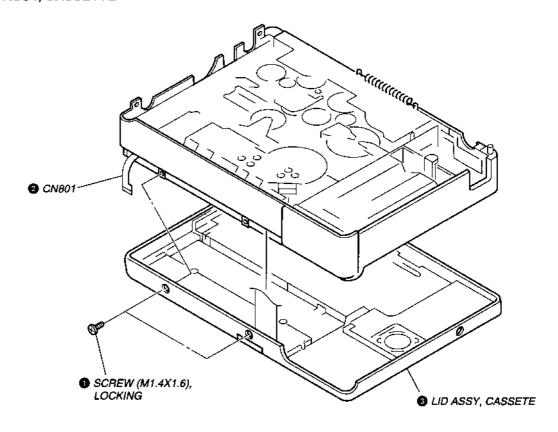
2-1. PANEL ASSY, LOWER

Note: When assembling it, align the slide switch position, and assemble it.

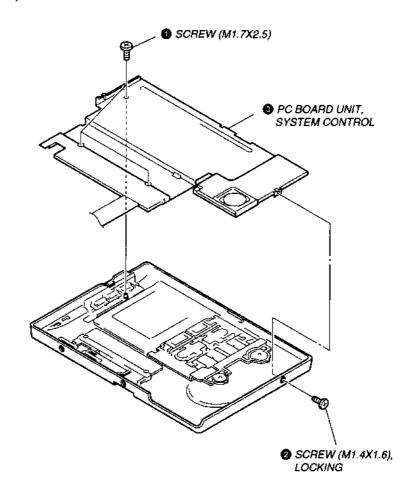




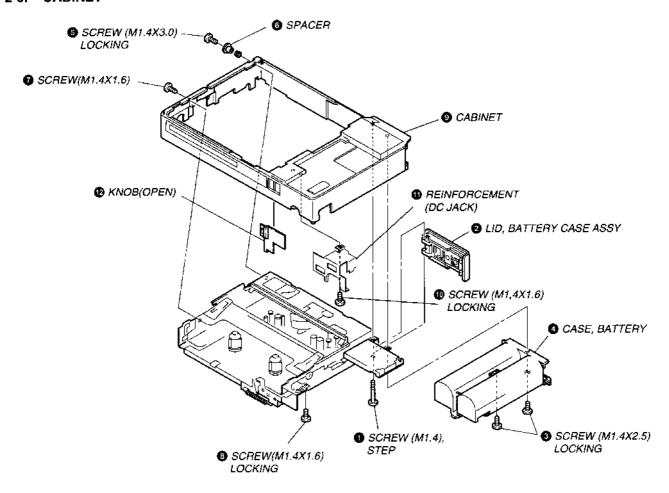
2-3. LID ASSY, CASSETTE



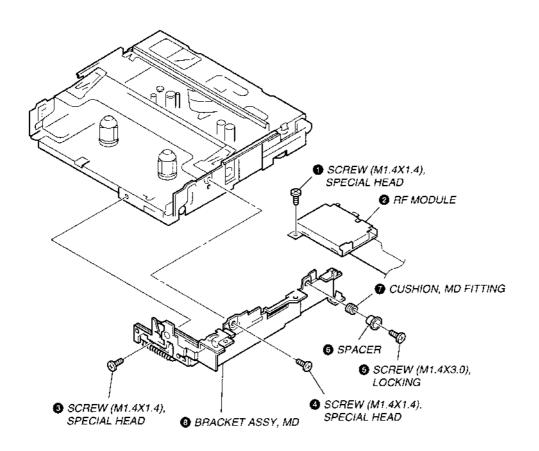
2-4. PC BOARD UNIT, SYSTEM CONTROL



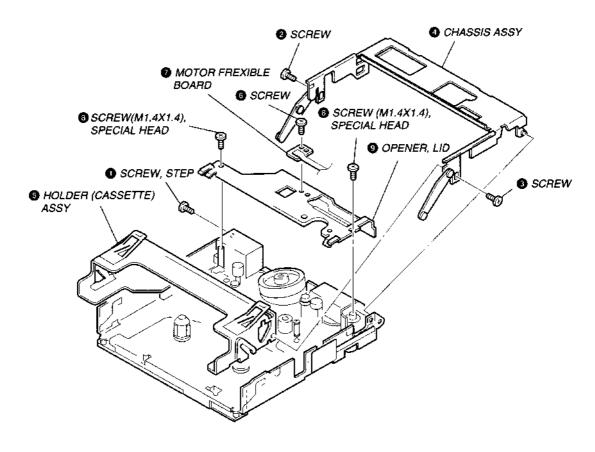
2-5. CABINET



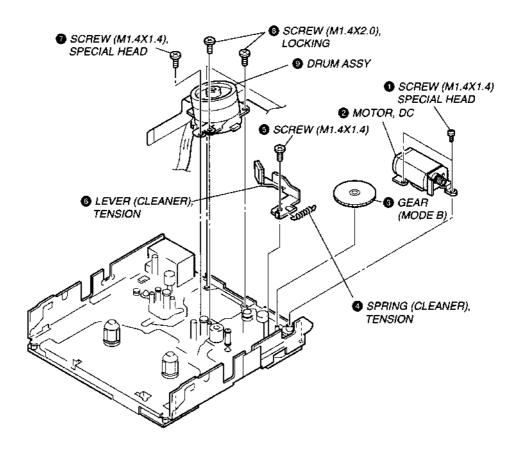
2-6. BRACKET ASSY, MD



2-7. CHASSIS ASSY



2-8. DRUM ASSY



SECTION 3 ADJUSTMENTS

3-1. ADJUSTMENTS

Notes on Adjustment

- 1. Perform adjustments in the order given.
- Use the following test tapes.

TY-7111 (8-909-812-00) For playback level adjustment

TY-7915 (8-913-932-00) For tape pass and switching pulse adjustments

TY-30B (8-892-358-00) Blank tape

Use the following torque meter.

TW-7131 (8-909-708-71) For tension adjustment

Switch and knob positions

As indicated in the adjustment procedures.

SP/LP: SP 48kHz

REC LEVEL: MIC LIMITER

MIC/LINE IN : MIC MIC ATT : 0dB AVLS : NORM

4. Apply DC 4.5 V power to the DC IN jack.

5. For rotary head drum cleaning, press a piece of chamois leather (2-034-697-00) or a four-times folded clean knit fabric moistened with small amount of alcohol against the drum lightly, and rotate the drum in counter-clockwise direction. (Rotate a few times.)

Test mode

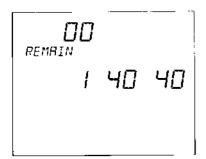
- 1. Perform the adjustments in test mode.
- 2. How to enter the test mode.

Press the STOP key. COUNTER key and OPEN button simultaneously when the main power is ON, to enter the test mode. Turn off the main power to exit the test mode.

3. When the machine enters the test mode, back light of the LCD turns on and the following initial display appears.

At the same time, the mechanism starts loading, and display of the select test mode code segment of the LCD turns on. (It normally flashes.)

Initial display of LCD



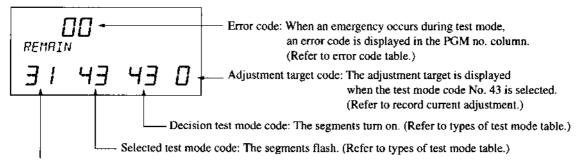
Note: The respective keys can be operated during test mode. The machine can mis-operate when the keys are operated during test most. However, mis-operation of the machine can be cleared by pressing the STOP key. At the same time, tape will not be damaged by mis-operation.

4. Types of test mode

Test mode code	Contents
01	Normal operating mode.
02	Error rate measurement mode.
20	
21	
22	Aging mode
23	(This is the mode for evaluation, and is
	not used in service.
24	
25	
30	End sensor check mode.
JU	(Pulse drive under condition of FF/REW.)
21	End sensor check mode.
31	(Pulse drive under condition of REW.)
20	T-reel lock check mode.
32	(Under condition of FF/REW.)
40	Mechanism deck independent operation
40	mode.
42	Tape pass adjustment mode.
43	Record current adjustment mode
99	Error code history check mode.

5. How to set the test mode code

Test mode display



Capstan speed code: The capstan speed code is displayed. (Refer to capstan speed code table.)

Adjustment value is displayed when the test mode code No. 42 or 43 isselected.

(Refer to tape pass adjustment and the recode current adjustment.)

The mechanism mode code is displayed when the test mode code 99 is selected.

(Refer to the mechanism mode code table.)

Note: The display during the test mode can be changed by pressing the COUNTER key of the machine. However, confirm the current test mode by selecting the test mode display (REMAIN).

1). The segment value of the test mode code can be incremented or decremented by pressing the MODE key (up) or the CLOCK key (down).

```
MODE key (up) \rightarrow 01 \rightarrow 02 \rightarrow 20 \rightarrow 21 \rightarrow 22 \rightarrow 23 \rightarrow 24 \rightarrow 25 \rightarrow 30 \rightarrow 31 \rightarrow 32 \rightarrow 40 \rightarrow 42 \rightarrow 43 \rightarrow 44 \rightarrow 99 \rightarrow 01....
CLOCK key (down) \rightarrow 01 \rightarrow 99 \rightarrow 44 \rightarrow 43 \rightarrow 42 \rightarrow 40 \rightarrow 32 \rightarrow 31 \rightarrow 30 \rightarrow 25 \rightarrow 24 \rightarrow 23 \rightarrow 22 \rightarrow 21 \rightarrow 20 \rightarrow 02 \rightarrow 01....
```

- 2). The selected test mode code can be set by pressing the ENTER key. (The selected test mode code flashes before it is set.)
- 3). The speed mode can be incremented or decremented by pressing the VOLUME + key (up) or VOLUME key (down). VOLUME + key (up) $\rightarrow \times 1$ FWD $\rightarrow \times 0.5$ FWD $\rightarrow \times 1.5$ FWD $\rightarrow \times 3$ FWD $\rightarrow \times 25$ FWD $\rightarrow \times 4$ FWD $\rightarrow \times 1$ FWD...... VOLUME key (down) $\rightarrow \times 1$ REV $\rightarrow \times 0.5$ REV $\rightarrow \times 1.5$ REV $\rightarrow \times 3$ REV $\rightarrow \times 25$ REV $\rightarrow \times 4$ REV $\rightarrow \times 1$ REV.....
- 4). The error code can be reset by pressing the COUNTER RESET key during test mode.
- 5). Modify the adjustment value during the SWP (switching pulse) adjustment and the record current adjustment by pressing the VOLUME + key (up) or VOLUME key (down).

6). The adjustment target can be selected during the record current adjustment (No. 43) by pressing the COUNTER RESET key. The adjustment data must be saved in the EEPROM by pressing the LIGHT key.

6. Test mode code

< Operation check mode >

1) Set mode: 01

Displays error code which occurs during operation. (During test display)

Linear counter, A-TIME

2) Error rate measurement mode: 02

Measures error rate using a test tape or by self-recording/playback.

Error counter is displayed in the following display modes during playback.

Linear count mode: A-channel error

A-TIME: B-channel error

3) End sensor check mode: 30, 31

The end sensor LEDs are started to drive when either one of the following modes is set.

30: Pulse drive (2.9 ms cycle)

31: Under condition of the FWD mode (2.9 ms: ON/30 ms: OFF)

32: Under condition of the FF/FWD mode (2.9 ms cycle)

4) Mechanism deck independent operation check: 40

The end sensor does not detect tape end when tape is not loaded. However the end sensor detects tape end when tape is loaded. The FWD/REV speed can be incremented or decremented by pressing the VOLUME + (up) key or the VOLUME - (down) key.

5) Tape pass adjustment mode: 42

The ATF-Servo SWP (switching pulse) adjustment is performed and the adjustment data is saved in EEPROM using this mode.

Capstan speed code display	Capstan speed code	Drum speed
1	× 1FWD	2000rpm
2	× 0.5FWD	1000rpm
3	× 1.5FWD	2000rpm
4	× 3FWD	2000rpm
5	× 25FWD	2000rpm
6	× 4FWD	2000rpm
-1	× 1REV	2000rpm
-2	× 0.5REV	1000rpm
-3	× 1.5REV	2000rpm
-4	× 3REV	2000rpm
-5	× 25REV	2000rpm
-6	× 4REV	2000rpm

6) Record current adjustment model: 43

The record current adjustments for A-channel PCM, A-channel ATF, B-channel PCM and B-channel ATF are performed in this mode. The adjustment values can be saved in EEPROM using this mode.

ATF servo during playback mode

Adjustment target code display	Adjustment target
0	A-ch PCM
1	A-ch ATF
2	B-ch PCM
3	B-ch ATF

7) NVRAM write error-code check: 99

The error which occurs during the normal operation mode, and the mechanism mode when the error occurs can be checked. The error code can be reset, too.

Saving the data in EEPROM and reset can be performed by pressing the LIGHT button.

The two digit mechanism mode code is displayed: The first digit indicates the present mode and the second digit indicates the next mode.

When the present mode and the next mode are the same, it indicates that an error occurs.

When the present mode and the next mode are different, it indicates that an error occurs during transition from the present mode to the next mode.

Code	Contents
0	INITIAL CODE
1	× 1_FWD
2	×3_FWD
3	×4_FWD
4	× 25_FWD
5	REC
6	UNLOAD
7	EJECT
8	STOP
9	× 1_REV
Α	×3_REV
В	×4_REV
С	× 25_REV
D	FF
Е	REW
F	PAUSE (FWD-PAUSE)

7. Error code table

Code	Block	Contents
00	- "	No error.
01* ~ 0F*	Control motor (Boton, anno des)	Position cannot be detected.
10	Control motor (Rotary encoder)	Loading cannot be completed.
11		Unloading cannot be completed.
12	M	Eject does not take place.
13	Mechanism deck	T-side end sensor is defective.
14		S-side end sensor is defective.
15	Drum	Dew condensation.
20		Drum motor does not rotate.
21		Drum servo does not lock in.
30		Capstan motor does not rotate.
31	Capstan	Capstan speed does not lock in.
40	Reel	T-reel FG cannot be detected.
41	Reel	S-reel FG cannot be detected.
90		B group data saving resulted in NG.
91	EEPROM	C group data saving resulted in NG.
92		B and C group data saving resulted in NG.

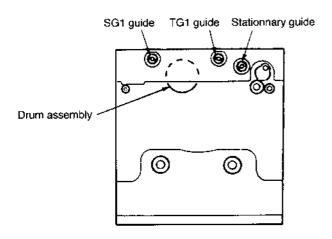
* When position of rotary encoder cannot be detected, an error code is created in such a way that 0 is added in the top of the present position number, and is displayed.

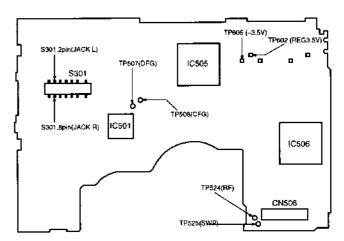
Present position	Error code	Present position	Error code
STOP ~ FWD	01	STOP	09
EJECT	02	EJECT ~ CASS-IN	0A
CASS-IN - UNLOAD	03	CASS-IN	OB
FWD	05	FF-REW	0C
LOADING-L	06	FWD ~ REV	0D
UNLOAD	07	LOADING-H	0E
FF-REW ~ STOP	08	REV	0F

Mechanism adjustment parts layout diagram

- Mechanism -

- Main board -





3-2. MECHANICAL ADJUSTMENTS

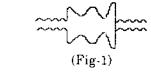
Tape pass adjustment

Note: Be sure to perform the tape pass adjustment when rotary drum is replaced.

Preparation: Oscilloscope CH-1: AC 100 mV/DIV CH-2: DC 2 V/DIV TRIG: CH-2

- 1. Connect an oscilloscope CH-1 to TP524 (RF) and CH-2 to TP525 (SWP).
- 2. Insert a test tape TY-7915 and find the center of the tape
- Establish the test mode.
- 4. Select and set the test mode code 42.

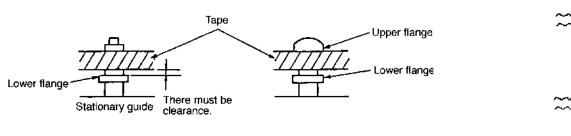
5. Decrease the SG1 guide (by rotating it clockwise), and remove a tape (Fig. 1).



- 6. Move down the TG1 guide (by turning it clockwise), remove a tape (Fig. 2) and turn it counter-clockwise until the right side edge of the RF waveform becomes square as shown (Fig. 3).
- 7. Turn the SG1 guide counter-clockwise until the left side edge of the RF waveform becomes square as shown (Fig. 4).

Notice that the lower flange of the stationary guide does not contact with tape. Confirm also that tape runs along with the upper flange of the SG1 and TG1 guides.

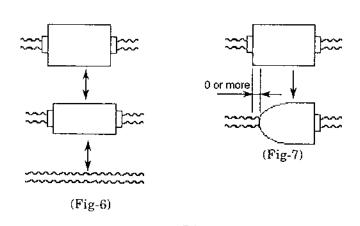
8. Adjust the lower flange of the stationary guide. Adjust height of the stationary guide until the lower flange contacts the tape during tape run in the PLAY mode. Tape must not show any curls.





(Fig-2)

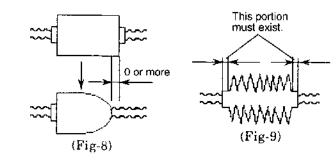
- 10. Select and set the test mode code 02.
- 11. Observe the RF waveform and confirm that the waveform increases and decreases its amplitude while maintaining it parallel waveform.
- 12. Repeat the STOP, UNLOAD and FWD modes, and confirm that the RF waveform follows step 11. When the RF waveform loses parallel shape, repeat steps 5 to 8.
- 13. Move down the SG1 guide (by turning it clockwise), and confirm that the RF waveform loses parallel shape, then return the SG1 guide to original position. When the original waveshape cannot be restored (Fig. 7), repeat steps 5 to 8.



- 14. Move down the TG1 guide (by turning it clockwise), and confirm that the RF waveform loses parallel shape, then return the SG1 guide to original position. When the original waveshape cannot be restored (Fig. 8), repeat steps 5 to 8.
 - (note) Do not adjust the SG1 and TG1 guides at the same time. They must be testified and adjusted independently.)
 - Be sure to complete adjustment of either one of the guides, then start adjustment on the other guide.
- 15. Confirm that the waveform during the FWD mode is obtained in the following modes.

Confirm also that the waveform in the FF/REW mode conforms to the waveform shown in Fig. 9.

 $FWD \rightarrow STOP \rightarrow FWD \rightarrow CUE \rightarrow FWD \rightarrow REV \rightarrow FWD$ \rightarrow STOP \rightarrow FF \rightarrow FWD \rightarrow STOP \rightarrow REW \rightarrow FWD \rightarrow STOP \rightarrow FJECT \rightarrow FWD



- . Confirmation of torque
 - Preparation:

Remove the cassette lid from the holder.

- $[\times 1]$ FWD mode]
- Establish a test mode.
- Select and set a test mode code 40. Insert a torque meter TW-7131.
- Establish the \times 1 FWD mode by pressing the VOLUME + key.
- 5. Observe and confirm the torque meter reading.

FWD takeup torque: 5 to 9 g•cm FWD back tension: 3 to 6.5 g•cm

- [× 1 REV mode]
- Establish a test mode.
- 2. Select and set a test mode code 40.
- 3. Insert a torque meter TW-7131.
- 4. Establish the \times 3 REV mode by pressing the VOLUME key.
- 5. Observe and confirm the torque meter reading. REV takeup torque: 5.5 to 8.5 g*cm REV back tension: 11.5 to 17 gecm
- . Confirmation of T-reel lock
- 1. Enter the test mode,
- 2. Set the test mode code to 32 using the MODE key. Then press the ENTER key.
- 3. Find the tape of a 120-minute tape. Insert the tape to the
- 4. Press the STOP key. Confirm that any number of either 0, 1, 2, 3 or 4 appears in the display window when the EJECT key is

If a number of 5 or higher appears, replace the Limiter (Freel) Assy (X-3373-741-1) and check the T-reel lock again.

Confirmation of speed

[Capstan FG]

- 1. Connect a frequency counter to TP508 (CFG).
- Establish a test mode.
- 3. Select and set the test mode code 40.
- 4. Insert a test tape TY-30B.
- 5. Establish the \times 0.5 FWD then \times 1 FWD modes by pressing the VOLUME + key and take reading of frequency counter respectively.

Mode	Frequency
× 0.5FWD	311Hz ± 5Hz
× 1FWD	622Hz ± 5Hz

[Drum FG]

- 1. Connect a frequency counter to TP507 (DFG).
- 2. Establish a test mode.
- 3. Select and set the test mode code 40.
- 4. Insert a test tape TY-30B.
- 5. Establish the $\times 0.5$ FWD then $\times 1$ FWD modes by pressing the VOLUME + key and take reading of frequency counter respectively.

Mode	Frequency
× 0.5FWD	400Hz ± 1Hz
× 1FWD	800Hz ± 1Hz

3-3. ELECTRICAL ADJUSTMENTS

- Voltage check
- 1. Establish a test mode.
- 2. Select and set the test mode code 40.
- 3. Measure DC voltage at the respective test points using VOM and confirm that the DC voltages satisfy the specifications.

Test point	Specifications
REG3.5V (TP602)	3.5V
- 3.5V (TP605)	-3.5V
MIC L (TP101)	$1.9V \pm 0.3V$
MIC R (TP201)	$1.9V \pm 0.3V$

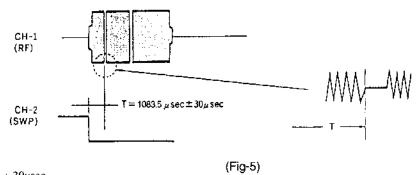
• Switching pulse (SWP) adjustment

Note: Be sure to perform the tape pass adjustment when rotary drum is replaced.

Preparation: Oscilloscope

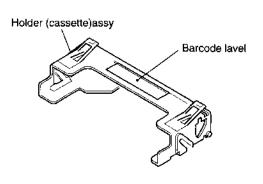
CH-1: AC 100 mV/DIV CH-2: AC 2 V/DIV TRIG: CH-2

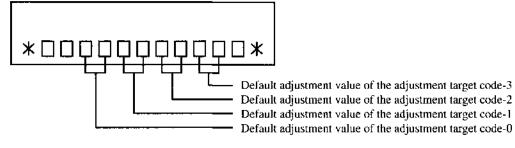
- 1. Connect CH-1 of an oscilloscope to TP524 (RF) and CH-2 to TP525 (SWP).
- 2. Establish a test mode.
- 3. Select and set the test mode code 40 and speed code 1 using the VOLUME + (up) key. (x 1 FWD)
- 4. Insert a test tape TY-7915.
- 5. Select and set the test mode code 42.
- 6. Adjust the phase difference (T) between the SWP signal and the RF signal using the VOLUME + (up) and the VOLUME (down) keys until the specifications as shown is satisfied.



 $T=1083.5\mu sec \pm 30\mu sec$

- 7. Press the LIGHT button to save the data into EEPROM
- · Record current adjustment
- Note: The default adjustment value for each specific drum has already been printed on the bar code label as shown. When you replace the drum with the new replacement drum, peel off the old bar code label from the machine and attach the new bar code label that is packed with the new replacement drum, to the machine. Then perform the record current adjustment.

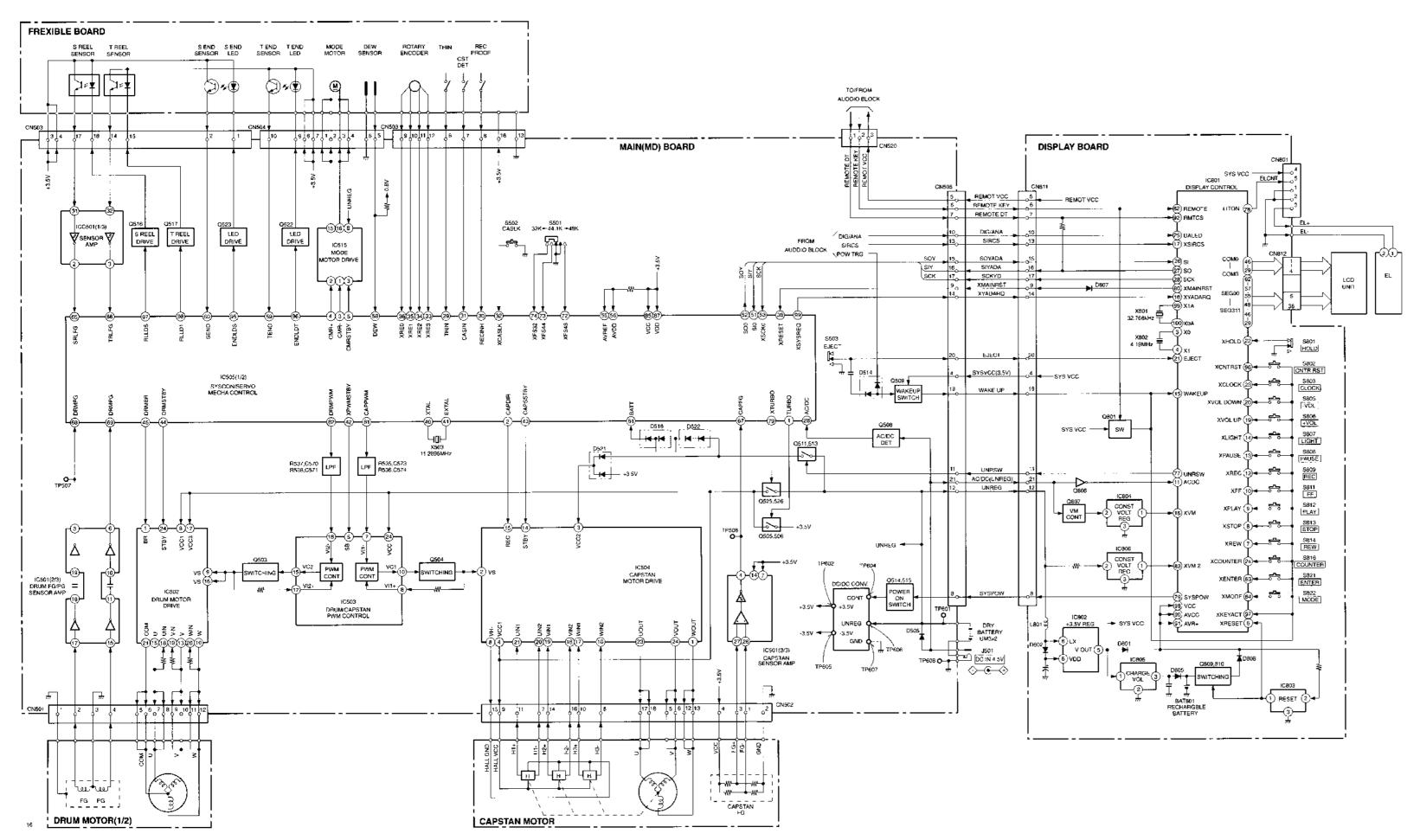




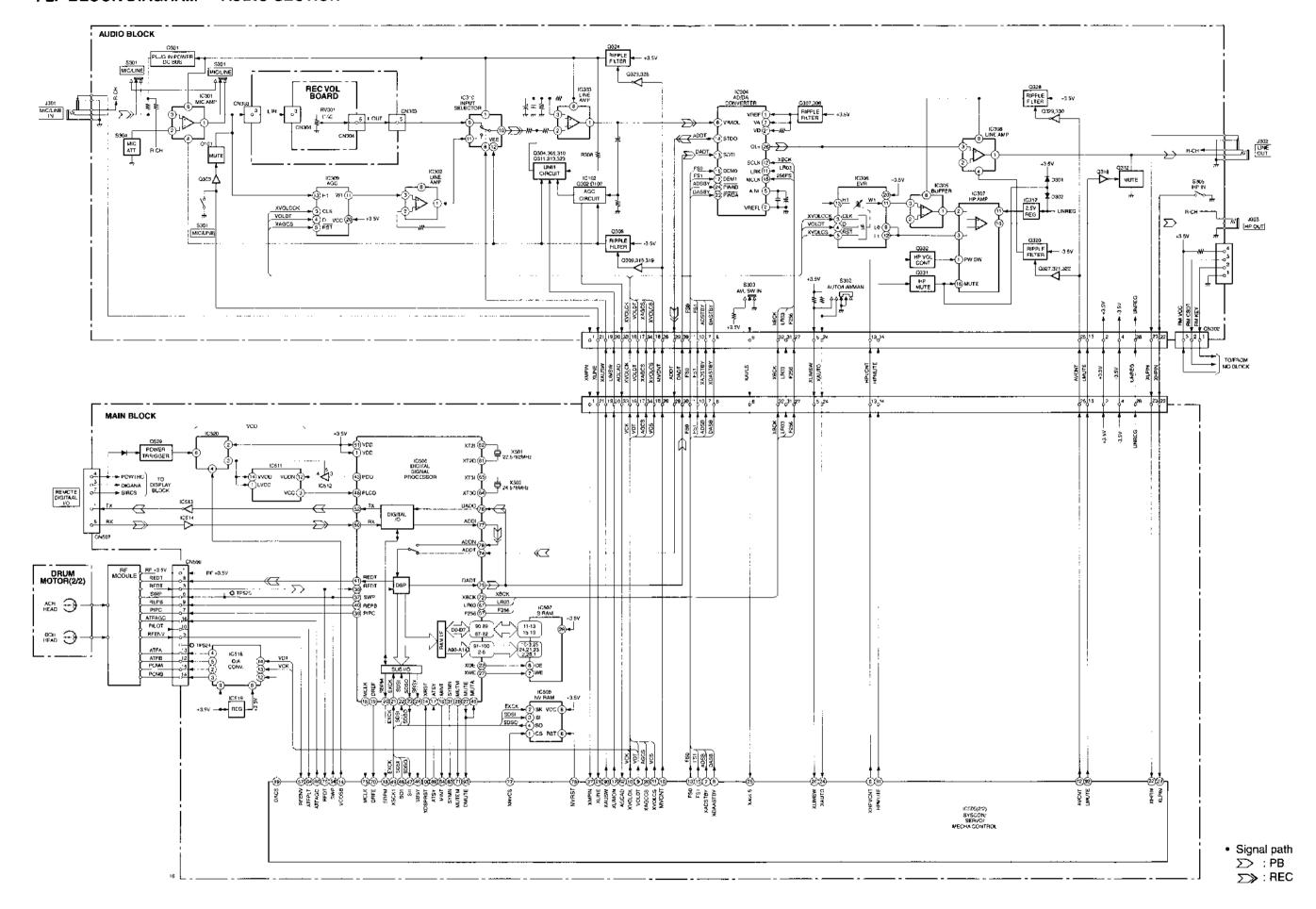
- Enter the test mode.
- Set the test mode code to 43 using the MODE key. Then press the ENTER key.
- 3. Confirm to see that the adjustment target code which is shown on the test mode display, is 0. When you need to change the adjustment target code, press the RESET/+ key to select the desired adjustment target code No.
- 4. Adjust the record current to the default adjustment value shown on the bar code label by pressing the VOLUME (+) or (-) key. Then press the LIGHT key.
- 5. Repeat the steps 3 and 4 until all adjustment items from the adjustment target code-0 to -3 are complete.

SECTION 4 DIAGRAM

4-1. BLOCK DIAGRAM — MD SECTION —



4-2. BLOCK DIAGRAM — AUDIO SECTION —



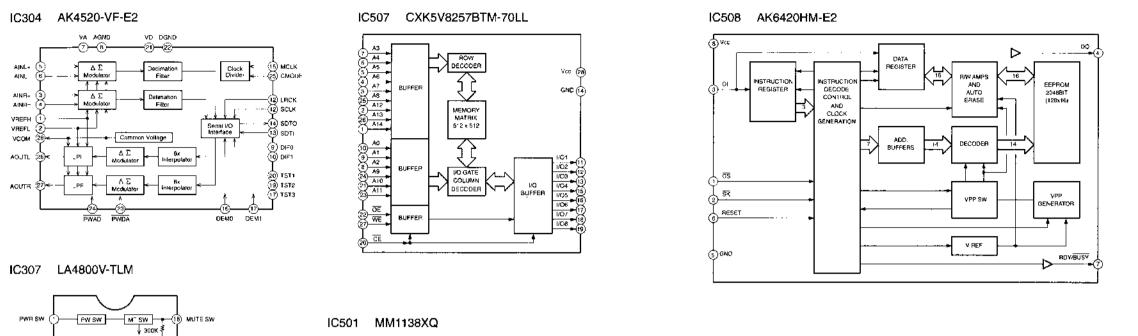
4-3. IC BLOCK DIAGRAM

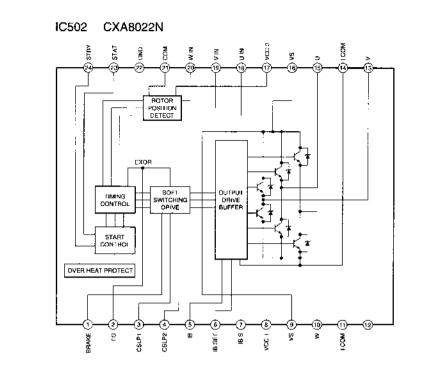
PWC PWC

PW0 3K≯

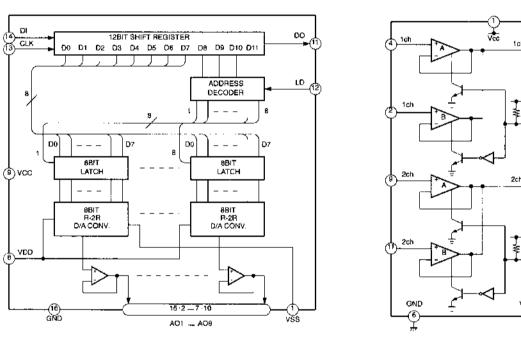
IC520 TK70001

IC515 LB8632V

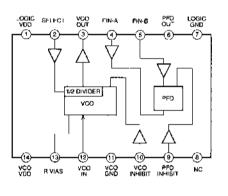




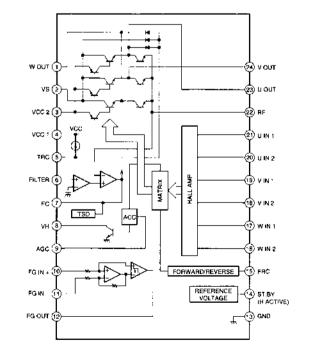


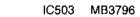


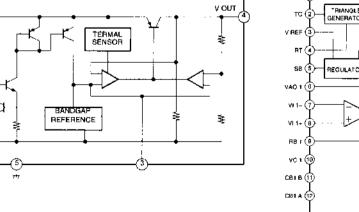


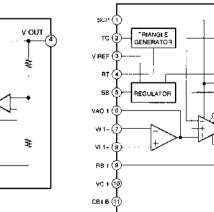


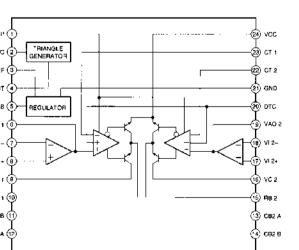
IC504 LB1882V

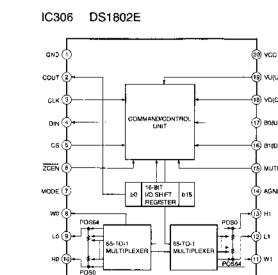












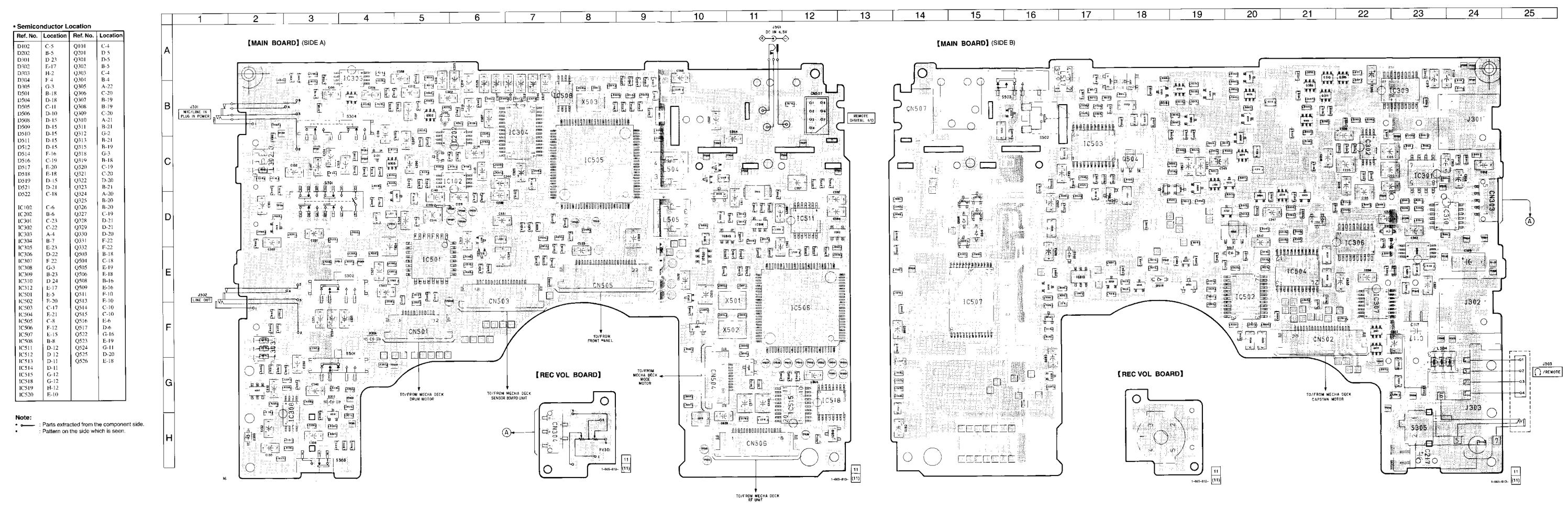
IC310 TK15325MT-L

200kΩ ∯

IC312 TK11225BMCL

- 30 **-**

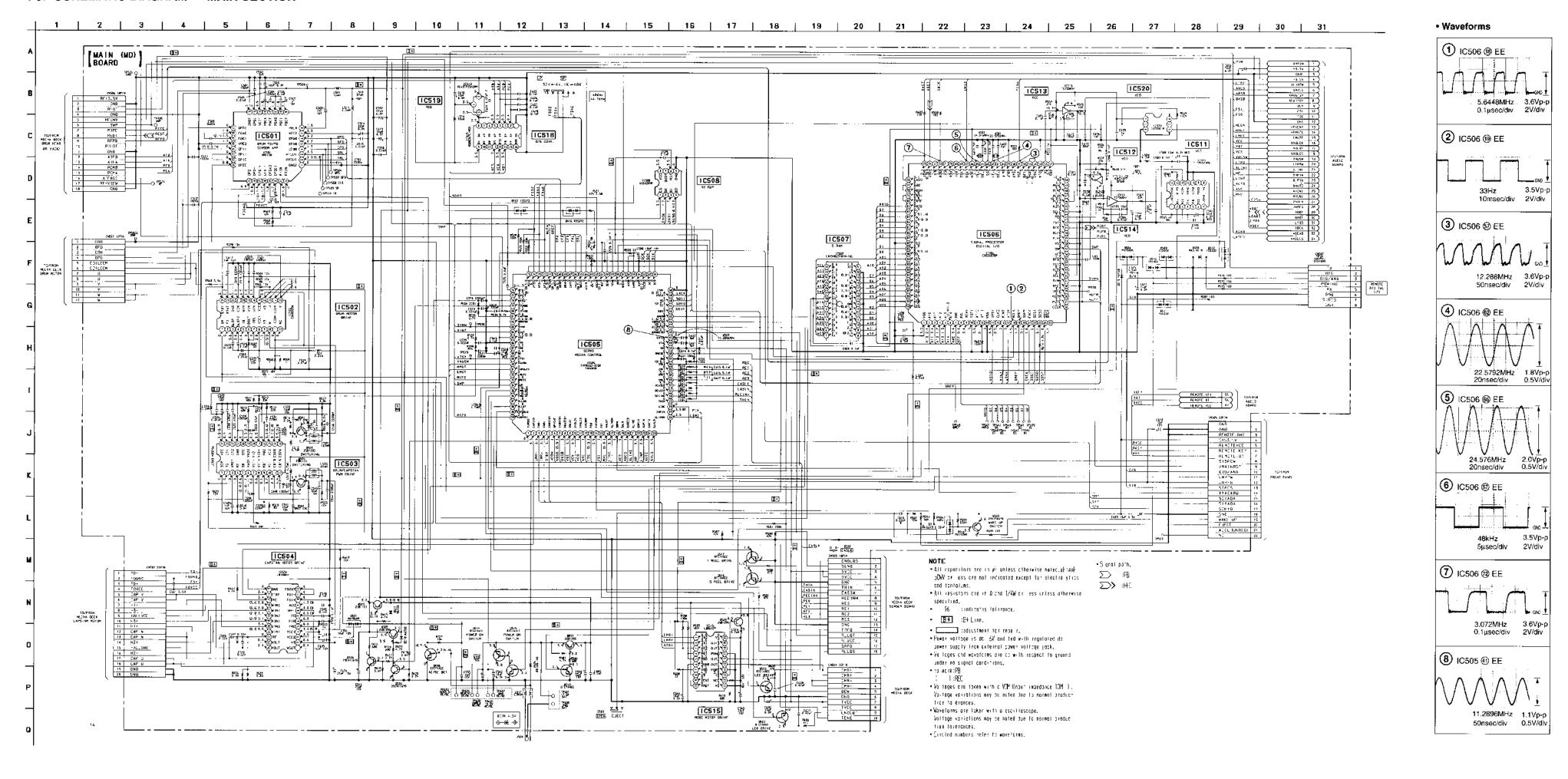
4-4. PRINTED WIRING BOARD



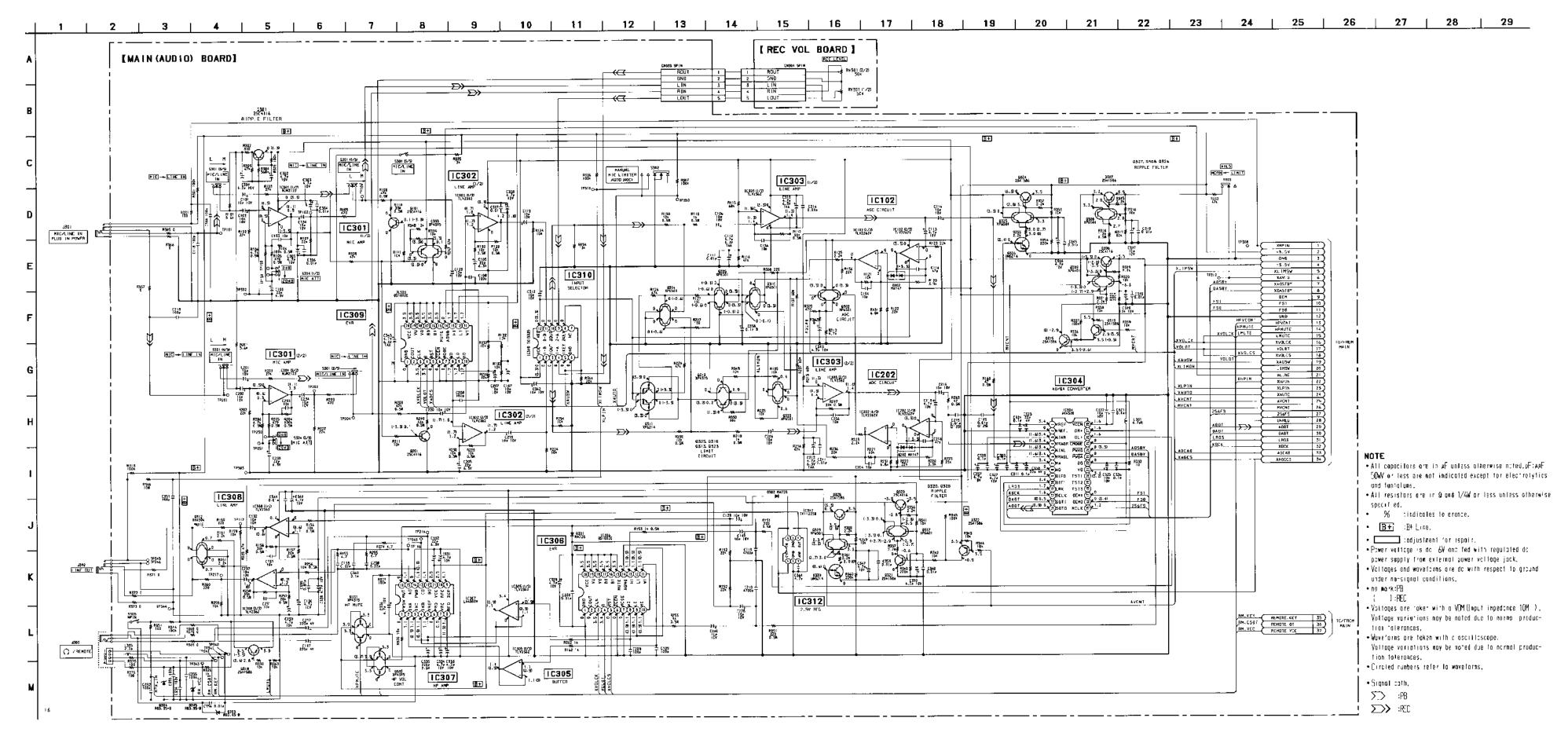
- 34 -

- 32 - - - 33 -

4-5. SCHEMATIC DIAGRAM — MAIN SECTION —



4-6. SCHEMATIC DIAGRAM — AUDIO SECTION —



4-7. IC PIN FUNCTION

• IC506 CXD2607BR

Pin No.	Pin Name	VO	Description
1	Vpp	0	+5v
2	A10	0	External RAM address input.
3	All		External RAM address input.
4	A12	О	External RAM address input.
5	A13	O	External RAM address input.
6	A14	0	External RAM address input
7	XWE	0	External RAM write enable signal output.
8	WOE	0	External RAM output enable signal output.
9	XEAN	O	External addressing enable signal output.
10	TSTI	1	Test input, fixed to "L".
11	XT10	0	X'tal oscillator circuit -1 output (not used).
12	XT11	ī	X'tal oscillator circuit -1 input (not used).
13	Vss	_	GND.
14	XRST	1	Reset input. Reset at "L".
15	CLKO	0	System clock output (Frequency is 4.9152 MHz when SELC = "L", 8.192 MHz when SELC = "H"),
			* I control byte (1). Q code decode (music interval detection) output when bit 1 = "L". BCK clock output from
16	MINT	0	RX-PLL when bit $1 = \text{"H"}$).
17	ATSY	1	ATF sync signal input.
18	MCLK	0	Channel clock (fch) output.
19	DREF	0	Signal output with duty 50 at SBSY rate,
			Control byte (1). Data transfer monitoring signal output with microprocessor when bit I = "L" (Transfer is
20	SBPM	0	enabled at "L"), f256 clock output from RX-PLL when bit 1 = "H").
21	EXCK	ı	Clock input for data transfer with microprocessor.
22	SDSI	ī	Serial data input from microprocessor.
23	SDSO	0	Serial data output to inicroprocessor.
24	SBSY	0	Frame cycle signal output for data transfer with microprocessor.
25	RFPL	0	PLL clock divided-by-5880 output.
26	CCLK	0	9.8304 MHz output when SELC = "L", 12.288 MHz output when SELC = "H".
27	MUTE	0	Mute input, mute at "H". REC monitor sound is not muted.
28	MUTM	0	Mute monitor. The mute status is indicated by "H".
29	UNLK	0	RXPLL lock monitor signal output. Indicates the RXPLL is locked.
30	RFCT	1	Playback RF signal control (RF signal is valid at "L", RF signal is invalid at "H".)
31	SYMN	0	Monitor signal indicating result of CI check which supports RF.
32	SELB	1	Oscillating frequency selection signal input.
33	PLCK	0	Control byte (1). RFPLL clock output when bit $1 = \text{``L''}$, f128 clock output from RX-PLL when bit $1 = \text{``H''}$).
34	TST2	1	Test terminal, fixed to "L".
35	RFDT	I	Playback RF signal input.
36	XCS	I	Chip select input for data transfer with microprocessor. Transfer enable at "L".
37	SWP	1	RF switching pulse. "A" track at "L". "B" track at "H".
38	Vss		GND.
39	PIPC	O	ATF pilot signal of wiring signal/identification signal output. Pilot signal at "H".
40	REPB	0	REC/PB discriminating signal input. REC state at "H".
41	REDT	0	Wiring signal output.
42	TST4	[Test terminal, fixed to "L".
43	PDO	0	Phase comparator output for RXPLL.
44	SELC	ı	Oscillating frequency selection signal input.
45	MUTA	1	Mute input, mute at "H". REC monitor sound is also muted.
46	PLCO	I	External VCO clock input of RXPLL. (512 fs reference).
47	PLVR	0	Phase comparator signal output for RXPLL. (2 fs generated from PLL clock).
48	PLRF	0	Phase comparator signal output for RXPLL. (2 fs of rxx sync detection signal).
49	MSSL	1	Master mode/slave mode select. Master at "H".
50	RX	1	Digital interface signal input.
		-	· · · · · · · · · · · · · · · · · · ·

Pin No.	Pin Name	I/O	Description
51	Vpp	_	+5 v.
52	ΤX	0	Digital interface signal output.
53	SELA	ı	Oscillating frequency selection signal input.
54	EXSY	I/O	External sync signal input/output. Normally connected to EXSN.
55	EXSN	ΙΟ	External sync signal input/output. Normally connected to EXSY.
56	F128	1/O	128 fs signal/256 fs signal during double speed input/output.
57	F256	0	256 fs signal/512 fs signal during double speed input/output.
58	F512	0	512 fs signal output.
59	ADLF]	LSB/MSB first of ADDT, ADDI and ADDN serial data select input. LSB first at "H".
60	DALF]	LSB/MSB first of DADT and DADO serial data select input. LSB first at "H".
61	XT2O	O	X'tal oscillator circuit-2 output. 22,579 MHz.
62	XT2I]	X'tal oscillator circuit-2 input.
63	Vss	_	GND.
64	XT30	O	X'tal oscillator circuit-3 output. 24,576 MHz.
65	XT31	I	X'tal oscillator circuit-3 input.
66	PSEN	I	F128, BCK and LRCK input;output select input. Output at "IF".
67	LR03	0	Inverted signal of LR02.
68	LR02	0	Control byte (1), 16BCK delay signal of LRCK when bit 1 = "L", LRCK clock output from RX-PLL when bit 1 = "H"
69	LR01	0	15BCK delay signal of LRCK.
70	LRCK	1/O	Fs signal/2 fs signal during double speed input/output.
71	WCK	0	2 fs signal/4 fs signal during double speed input/output.
72	XBCK	0	Inverted signal output of BCK.
73	BCK	1/0	64 fs signal/128 fs signal during double speed input/output.
74	ADDT	1	AD serial data input.
75	DADT	0	DA serial data input.
76	DADO	I	Audio data input for digital output. (Connected to DADT normally).
77	ADDI	0	Digital in audio data output.
78	ADDN	1	Audio data input for DIGITAL IN. (Connected to ADDI normally).
79	ERRI	I	Validity flag data input for digital out. (Connected to ERRF normally).
80	ERRF	0	Error data plug/data output of DADT data. Error data at "H".
81	MNTG	0	Indicates that the error correction status monitor data is being output to D7 to D0 at "H".
82	D7	1/0	External RAM data input/output (MSB).
83	D6	1/O	External RAM data input/output.
84	D5	1/0	External RAM data input/output.
85	D4	ľO	External RAM data input/output.
86	D3	ľO	External RAM data input/output.
87	D2	I/O	External RAM data input/output.
88	Vss	_	GND.
89	D1	Ι/O	External RAM data input/output
90	D0	l/O	External RAM data input/output. (LSB).
91	A00	1/O	External RAM data input/output.
92	A0I	0	External RAM data input/output.
93	A02	0	External RAM data input/output.
94	A03	0	External RAM data input/output.
95	A04	0	External RAM data input/output.
96	A05	0	External RAM data input/output.
97	A06	0	External RAM data input/output.
98	A07	0	External RAM data input/output.
99	A08	0	External RAM address output
100	A09	0	External RAM address output.

• IC505 CXP87532-035-R

Pin No.	Pin Name	1/0	Description
1	TURBO	O	Capstan turbo (Power on = for Capstan high speed rotation).
2	CAPDIR	0	Capstan direction: reverse.
3	CMR-	_	Control motor
4	CMR+	0	Control motor +.
5	CMRSTBY	0	Control motor standby.
6	HPVCNT	0	Headphone power on.
7	XADSTBY	0	A/D converter STANDBY.
8	XDASTBY	0	D/A converter standby.
9	VOLDT	0	VOL. & AGC EVR, REC current adjustment - D/A converter data.
10	XVOLCK	Ι	VOL. & AGC EVR, REC current adjustment - D/A converter clock.
11	XVOLCS	0	VOLUME EVR chip select.
12	AVCONT	ī	Audio PB block power control output. (on at "H").
13	FS0	_	DA converter de-emphasis SW0.
14	XVCOSB	I	Analog PLL VCO standby.
15	FSI	0	DA converter de-emphasis SW1.
16	MVCNT	0	Audio record block power control output. (on at "H").
17	XLIMON	J	MIC limiter on.
18	SBPM	0	SBPM input (from CXD2607).
19	DALD	0	REC current adjust D/A converter data latch output.
20	XAGCCS	0	AGC EVR chip select output.
21	XLINE	[MIC/line select SW (low = line).
22	XHPIN	Ī	Headphone plug SW detection.
23	XLPIN	0	Line out plug SW detection.
24	XAUTO	0	REC mode manual/auto select SW (key input) (low: AUTO).
25	XAVLS	0	AVLS SW input.
26	XLIMSW	0	Limiter SW input.
27	XMPIN	0	MIC plug SW input.
28	ACDC	0	AC/DC SW input; BATTERY IN = high.
29	THIN	0	Thinner tape identification SW input.
30	RECINH	1	REC inhibit recognition SW input.
31	XCASIN	О	Cassette existence SW input.
32	XCASLK	1	Cassette compartment lock SW input.
33	XRE3	0	Rotary encoder SW input-3.
34	XRE2	[Rotary encoder SW input-2.
35	XREI	[Rotary encoder SW input-1.
36	XRE0	l ;	Rotary encoder SW input-0.
37	GND	Ī	GND.
38	XRESET		Reset input.
39	VSS	0	GND.
40	XTAL	О	11.2896 MHz clock.
41	EXTAL.	0	11.2896 MHz clock.
42	XPWMSTBY	1	PWM driver standby.
43	XCAPSTBY	O	Capstan driver standby.
44	XDRMSTBY	I.	Drum driver standby.
45	DRMBR	[Drum brake.
46	SBSY	.]	CXD2607 (DSP) sub-sync signal input.
47	\$11	0	CXD2607/NVRAM communication data input.
48	S01	0	CXD2607/NVRAM communication data output.
49	XSCK1	ī	CXD2607/NVRAM communication clock input.
50	CS0	1	GND.

Pin No.	Pin Name	1/0	Description
51	S10	1	System controller communication data input.
52	SO0	0	System controller communication data output.
53	XSCK0	ī	System controller communication data clock.
54	AVSS		Built-in A/D converter, reference GND,
55	AVREF		Built-in A/D converter, reference power supply.
56	AVDD		Built-in A/D converter power supply. (connected to VDD).
- 50 - 57	RFENV		RF envelope input.
58	DEW	<u> </u>	Dew (condensation) sensor input.
59	TEND	I	Tape-top side end sensor signal input.
60	SEND		Tape-end side end sensor signal input.
61	BATT	ı	Battery voltage input.
62	AGCAD	1	Audio signal detection voltage input for AGC.
	SCC	1	Pull down.
63		, <u> </u>	
64	ATFPLT		ATF pilot signal input. S-side reel FG.
65	SRLFG	1	
66	TRLFG	1	T-side reel FG.
67	CAPFG	1	Capstan FG.
68	DRMFG	1	Drum FG.
69	DRMPG	1	Drum PG.
70	DREF	<u>l</u>	Drum reference (L = A ch).
71	MUTEM	I .	CXD2607 (DSP) mute monitor input.
72	XFS48	[Fs switch input 48 kHz.
73	XFS44	ſ	Fs switch input 44.1 kHz.
74	XFS32	Γ	Fs switch input 32 kHz.
75	MCLK	[Channel clock input.
76	RFDT	Γ	RF signal.
77	XNVCS	0	NVRAM chip select (High output during reset).
78	NVRST	0	NVRAM reset (High output during reset).
79	XTURVO	0	Capstan turbo inverted output.
80	ATFAGC	0	ATF gain control PWM out.
81	CAPPWM	0	Capstan motor control PWM output.
82	DRMPWM	0	Drum motor control PWM output.
83	SYMN	I	C1 syndrome monitor input.
84	MINT	1	Music top signal input after CD-Q decode.
85	VDD	1	VDD connection.
86	VSS		GND.
87	VDD		VDD.
88			No connection.
89	ATSY	0	ATF-SYNC (ATFS2) timing signal.
90	XAUSW	0	REC mode AUTO select switch (output) (L: AUTO).
91	XHPMUTE	0	Headphone mute output.
92	LMUTE	0	Line mute output.
93	DMUTE	0	Digital mute output.
94	SWP	0	SWP output. ($L = A ch/H = B ch$).
95	ENDLDS	0	S-reel side end-sensor LED ON.
96	ENDLDT	O	T-reel side end-sensor LED ON.
97	RLLDS	0	S reel FG sensor LED ON.
98	RLLDT	0	T-reel FG sensor LED ON.
99	XSYSREQ	0	System controller communication request output.
	XDSPRST	0	CXD2607 (DSP) reset input.

SECTION 5 EXPLODED VIEWS

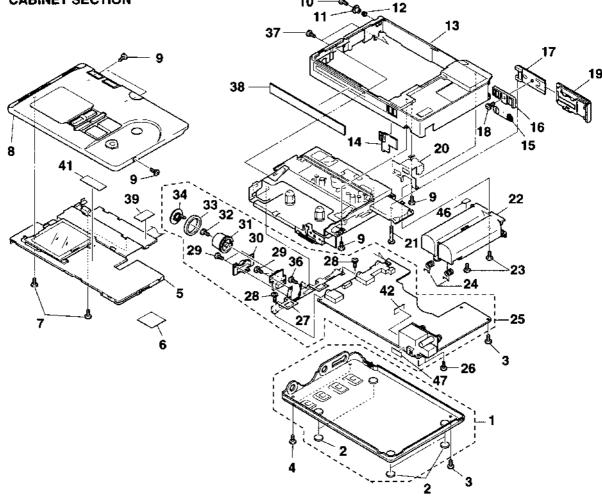
Note:

- -XX, -X mean standardized parts, so they may have some differences from the original one. Items marked "*" are not stocked since they
- are seldom required for routine service. Some delay should be anticipated when ordering these
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark Δ or dotted line with mark $\boldsymbol{\Delta}$ are critical for safety. Replace only with part number specified.

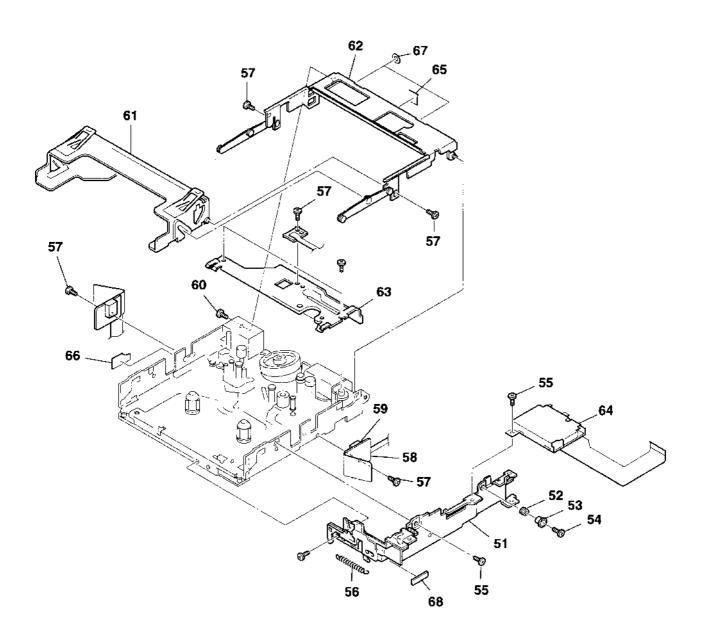
Les composants identifiés par une marque Ne les remplacer que par une pièce portant le numéro spécifié.





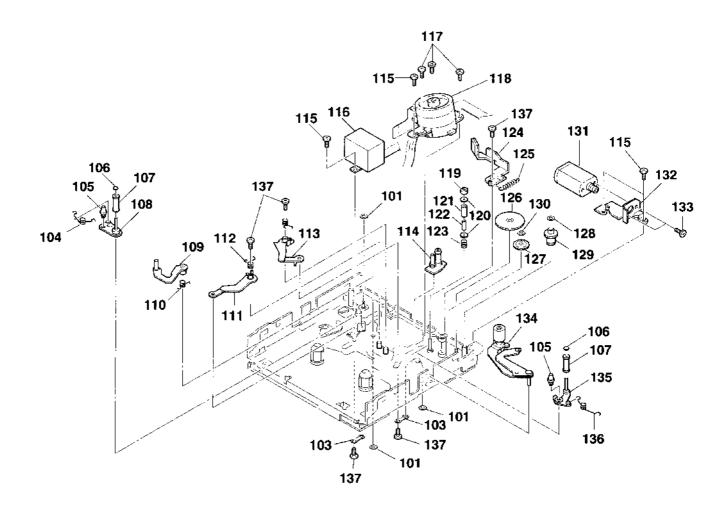
				-		
Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
A-3311-601-A	PANEL ASSY, LOWER		21	4-990-723-01	SCREW (M1.4), STEP	
3-387-476-01	FOOT, RUBBER		22		• •	
3-348-998-81	SCREW (M1.4X2.5)		23	3-704-197-21	SCREW (M1.4X2.5), LOCKING	
3-704-197-02	SCREW (M1.4X1.6) LOCKING		24	4-992-336-01	TERMINAL (-), BATTERY	
1-475-171-11	PC BOARD UNIT, SYSTEM CONTROL		25	A-3293-414-A	MAIN BOARD ASSY, COMPLETE	
4-992-964-01	COVER, BATTERY		26	3-335-797-21	SCREW (M1.4X3), TOOTHED LOCK	
3-375-114-21	SCREW (M1.7X2.5)		* 27	4-990-745-01	BRACKET (JACK)	
X-4948-447-1	LID ASSY, CASSETTE		28	3-335-797-01	SCREW (M1.4X2), TOOTHED LOCK	
3-704-197-01	SCREW (M1.4X1.6), LOCKING		29	3-704-197-01	SCREW (M1.4X1.6) LOCKING	
3-704-197-31	SCREW (M1.4X3.0), LOCKING		30	4- 9 90-748-01	ORNAMENT (REC VOL)	
4-990-722-01	SPACER		31	4-990-744-01	HOLDER (REC VOL)	
3-362-469-01	CUSHION, MD FITTING		32	7-627-852-27	+P 1.7X3	
4-990-742-01	CABINET		33	4-990-747-01	RING, REC (VOL)	
4-992-335-01	KNOB (OPEN)		34	4-990-746-01	KNOB (REC VOL)	
4-990-735-01	TERMINAL (+,-), BATTERY		36	3-704-246-01	SCREW (P1.4X1.6)	
4-990-734-01	HOLDER, BATTERY TERMINAL		37	4-963-883-31	SCREW (M1.4), PRECISION PAN	
4-990-736-01	BRACKET (BATTERY CASE LID)		38	4-990-743-01	WINDOW, CASSETTE	
3-704-197-12	SCREW (M1.4X2.0), LOCKING		39	4-992-967-01	SHEET (COVER)	
4-990-733-01	LID, BATTERY CASE		41	4-992-968-01	SHEET (BUTTON)	
4-992-334-01	REINFORCEMENT (DC JACK)		42	4-992-969-01	SHEET (DD)	
			46	4-994-599-01	SHEET (CM)	
			47		• •	
	A-3311-601-A 3-387-476-01 3-348-998-81 3-704-197-02 1-475-171-11 4-992-964-01 3-375-114-21 X-4948-447-1 3-704-197-01 3-704-197-31 4-990-722-01 3-362-469-01 4-990-735-01 4-990-735-01 4-990-736-01 3-704-197-12 4-990-733-01	A-3311-601-A PANEL ASSY, LOWER 3-387-476-01 FOOT, RUBBER 3-348-998-81 SCREW (M1.4X2.5) 3-704-197-02 SCREW (M1.4X1.6) LOCKING 1-475-171-11 PC BOARD UNIT, SYSTEM CONTROL 4-992-964-01 COVER, BATTERY 3-375-114-21 SCREW (M1.7X2.5) X-4948-447-1 LID ASSY, CASSETTE 3-704-197-01 SCREW (M1.4X1.6), LOCKING 3-704-197-31 SCREW (M1.4X3.0), LOCKING 4-990-722-01 SPACER 3-362-469-01 CUSHION, MD FITTING 4-990-742-01 CABINET 4-990-735-01 TERMINAL (+,-), BATTERY 4-990-734-01 HOLDER, BATTERY TERMINAL 4-990-736-01 BRACKET (BATTERY CASE LID) 3-704-197-12 SCREW (M1.4X2.0), LOCKING 4-990-733-01 LID, BATTERY CASE	A-3311-601-A PANEL ASSY, LOWER 3-387-476-01 FOOT, RUBBER 3-348-998-81 SCREW (M1.4X2.5) 3-704-197-02 SCREW (M1.4X1.6) LOCKING 1-475-171-11 PC BOARD UNIT, SYSTEM CONTROL 4-992-964-01 COVER, BATTERY 3-375-114-21 SCREW (M1.7X2.5) X-4948-447-1 LID ASSY, CASSETTE 3-704-197-01 SCREW (M1.4X1.6), LOCKING 3-704-197-31 SCREW (M1.4X3.0), LOCKING 4-990-722-01 SPACER 3-362-469-01 CUSHION, MD FITTING 4-990-742-01 CABINET 4-990-735-01 TERMINAL (+,-), BATTERY 4-990-736-01 BRACKET (BATTERY TERMINAL 4-990-736-01 BRACKET (BATTERY CASE LID) 3-704-197-12 SCREW (M1.4X2.0), LOCKING 4-990-733-01 LID, BATTERY CASE	A-3311-601-A PANEL ASSY, LOWER 3-387-476-01 FOOT, RUBBER 3-348-998-81 SCREW (M1.4X2.5) 3-704-197-02 SCREW (M1.4X1.6) LOCKING 1-475-171-11 PC BOARD UNIT, SYSTEM CONTROL 25 4-992-964-01 COVER, BATTERY 3-375-114-21 SCREW (M1.7X2.5) 27 X-4948-447-1 LID ASSY, CASSETTE 28 3-704-197-01 SCREW (M1.4X1.6), LOCKING 29 3-704-197-31 SCREW (M1.4X3.0), LOCKING 30 4-990-722-01 SPACER 3-362-469-01 CUSHION, MD FITTING 32 4-990-742-01 CABINET 33 4-990-735-01 TERMINAL (+,-), BATTERY 36 4-990-735-01 HOLDER, BATTERY TERMINAL 4-990-736-01 BRACKET (BATTERY CASE LID) 3-704-197-12 SCREW (M1.4X2.0), LOCKING 39 4-990-733-01 LID, BATTERY CASE 4-990-733-01 REINFORCEMENT (DC JACK) 46	A-3311-601-A PANEL ASSY, LOWER 3-387-476-01 FOOT, RUBBER 22 4-992-333-01 3-348-998-81 SCREW (M1.4X2.5) 23 3-704-197-21 3-704-197-02 SCREW (M1.4X1.6) LOCKING 24 4-992-336-01 1-475-171-11 PC BOARD UNIT, SYSTEM CONTROL 25 A-3293-414-A 4-992-964-01 COVER, BATTERY 26 3-335-797-21 3-375-114-21 SCREW (M1.7X2.5) * 27 4-990-745-01 X-4948-447-1 LID ASSY, CASSETTE 28 3-335-797-01 3-704-197-01 SCREW (M1.4X1.6), LOCKING 29 3-704-197-01 3-704-197-31 SCREW (M1.4X3.0), LOCKING 30 4-990-748-01 4-990-722-01 SPACER 31 4-990-744-01 3-362-469-01 CUSHION, MD FITTING 32 7-627-852-27 4-990-742-01 CABINET 33 4-990-746-01 4-990-735-01 TERMINAL (+,-), BATTERY 36 3-704-246-01 4-990-735-01 BRACKET (BATTERY TERMINAL 37 4-963-883-31 4-990-736-01 BRACKET (BATTERY CASE LID) 38 4-990-743-01 4-990-733-01 LID, BATTERY CASE 41 4-992-968-01 4-992-334-01 REINFORCEMENT (DC JACK) 46 4-994-599-01	A-3311-601-A PANEL ASSY, LOWER 3-387-476-01 FOOT, RUBBER 3-348-998-81 SCREW (M1.4X2.5) 3-704-197-02 SCREW (M1.4X2.5) 3-704-197-02 SCREW (M1.4X1.6) LOCKING 1-475-171-11 PC BOARD UNIT, SYSTEM CONTROL 26 3-335-797-21 SCREW (M1.4X3.), TOOTHED LOCK 3-375-114-21 SCREW (M1.4X3.6), LOCKING 3-704-197-01 SCREW (M1.4X3.6), LOCKING 3-704-197-01 SCREW (M1.4X3.6), LOCKING 3-704-197-31 SCREW (M1.4X3.0), LOCKING 3-704-197-31 SCREW (M1.4X3.0), LOCKING 3-362-469-01 CUSHION, MD FITTING 3-362-469-01 CUSHION, M

5-2. CASSETTE HOLDER SECTION



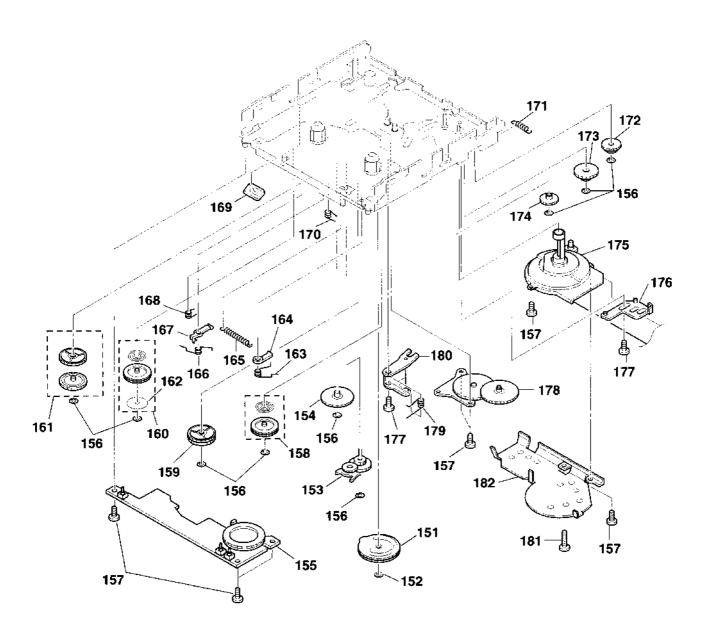
Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	X-4948-445-1	BRACKET ASSY, MD		60	3-387-566-01	SCREW, STEP	
52	3-362-469-01	CUSHION, MD FITTING		61	X-3373-745-1	HOLDER (CASSETTE) ASSY	
53	4-990-722-01	SPACER		62	X-4948-667-1	CHASSIS ASSY	
54	3-704-197-31	SCREW (M1.4X3.0), LOCKING		* 63	3-013-472-01	OPENER, LID	
55	3-331-047-01	SCREW (M1.4X1.4),SPECIAL HEAD		64	1-801-766-11	RF MODULE	
56	4-992-358-01	SPRING, TENSION		65	3-330-681-01	SHEET, LUMILER	
57	3-349-825-01	SCREW	;	66	4-992-966-01	SHEET (MD)	
58	1-665-830-11	PC BOARD, MOTOR FLEXIBLE		67	4-993-509-01	WASHER (CB)	
59	8-719-031-97	DIODE NJL5134KL		68	4-994-597-01	SHEET (RT)	

5-3. MACHANISM SECTION 1 (MT-D100-128)



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Ref. No.	Part No.	Description	<u>Remarks</u>	Ref. No.	Part No.	<u>Description</u>	Remarks
101	3-321-393-01	WASHER, STOPPER		120	3-013-448-01	FLANGE	
103	3-013-454-01	LEVER (LOADING U)		121	3-013-447-01	ROLLER (GUIDE)	
104	3-013-477-01	SPRING (SF)		122	3-013-469-01	COLLAR (GUIDE)	
105	3-360-817-01	SHAFT (CASSETTE)		123	3-013-488-01	SPRING (ROTARY ROLLER), COIL	
106	3-315-414-00	WASHER		124	X-3373-739-1	LEVER (CLEANER) ASSY	
107	3-013-465-01	1 **		125	3-013-486-01	SPRING (CLEANER), TENSION	
108	X-3373-733-1	` '		126	3-013-460-01	GEAR (MODE B)	
109	X-3373-737-1	LEVER (TENSION) ASSY		127	3-013-461-01	GEAR (MODE C)	
110	3-013-479-01	SPRING (TENSION)		128	4-992-239-01	WASHER (A)	
1 1 1	X-3373-735-1	LEVER (LOADING.S) ASSY		129	3-013-459-01	GEAR (MODE A)	
112	3-013-476-01	SPRING (LOADING)		130	3-315-384-11	WASHER, STOPPER	
113	X-3373-736-1	- 1		131	1-698-959-11	MOTOR, DC	
114		GUIDE (T) ASSY, SLANT		132	3-013-455-01		
115	3-331-047-01	SCREW (M1.4X1.4), SPECIAL HEAD		133	7-627-455-08		
116	1-475-190-11	INVERTER UNIT		134	X-3373-728-1	ROLLER ASSY, PINCH	
117	3-704-197-11	SCREW (M1.4X2.0), LOCKING		135	X-3373-734-1	LEVER (TF) ASSY	
118	8-839-042-11	DRUM ASSY DOU-28A/J-N		136	3-013-478-01	SPRING (TF)	
119	3-337-605-01	NUT, ADJUSTMENT		137	3-349-825-53	SCREW	

5-4. MACHANISM SECTION 2 (MT-D100-128)



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
151	3-013-452-01	GEAR, CAM		* 167	3-013-466-01	LEVER (BRAKE S)	
152	3-315-384-11	WASHER, STOPPER		168	4-992-343-01	SPRING (BRAKE CTR)	
153	X-3373-716-1	LEVER (FF/REW) ASSY		* 169	3-013-468-01	LEVER (F-BT)	
154	3-013-456-01	GEAR (C)		170	3-013-481-01	SPRING (GEAR PRESS)	
155	1-475-193-11	PC BOARD UNIT, SENSOR		171	3-013-487-01	SPRING(TENSION RETURN), TENSION	
156	3-321-393-01	WASHER, STOPPER		172	3-013-462-01	GEAR (MODE D)	
157	3-331-047-01	SCREW (M1.4X1.4), SPECIAL HEAD		173	3-013-463-01	GEAR (MODE E)	
158	X-3373-740-1	LIMITTER (F) ASSY		174	3-013-464-01	GEAR (MODE F)	
159		LIMITTER (MG REEL) ASSY		175	1-698-958-11	MOTOR, CAPSTAN	
160	X-3373-741-1	LIMITTER (F REEL) ASSY		176	X-3373-744-1	LEVER (CLEANER RELEASE) ASSY	
161	X-3373-742-1	LIMITTER (MG) ASSY		177	3-349-825-01	SCREW	
162	3-013-442-01	REFLECTOR (REEL)		178	X-3373-715-1	CHASSIS (GEAR) ASSY	
163	3-013-483-01	SPRING (BRAKE T)		179	3-013-480-01	SPRING (T LOCK)	
* 164	3-013-467-01	LEVER (BRAKE T)		180	X-3373-738-1	LEVER (LOADING.CAM) ASSY	
165	3-013-484-01	SPRING (LEVER BRAKE), COIL		181	3-704-252-41	SCREW (M1.4X6)	
166	3-013-482-01	SPRING (BRAKES)		182	4-992-344-01	COVER MOTOR	

SECTION 6 ELECTRICAL PARTS LIST

Note:

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ne les remplacer que par une pièce portant le numéro spécifié.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "**" are not stocked since they
 are seldom required for routine service. Some
 delay should be anticipated when ordering these
 items.
- CAPACITORS: uF: uF

RESISTORS
 All resistors are in ohms.
 METAL: metal-film resistor
 METAL OXIDE: Metal Oxide-film resistor
 F: nonflammable

• COILS uH: µH

SEMICONDUCTORS
 In each case, u: μ, for example: uA...: μA...., uPA...., μPA...., uPB...., μPC...., μPC...., μPC...., μPD....

			ul	F: µF				uPD, μPD			
Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
		MAIN BOARD, CO	OMPLETE			C207		TANTAL, CHIP	10uF	20%	10V
	N 0230 414 N	**********	******			C208		CERAMIC CHIP	100PF	5%	50V
	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C209		CERAMIC CHIP	100PF	5%	50V
		SHEET, LUMILER			•••	C210	1-117-223-11		0.0047uF	2%	16V
		SCREW (M1.4X2)		LOCK		0211		CERAMIC CHIP	0.01uF	10%	25V
		SCREW (M1.4)	,,			•••					
		SCREW (M1.4X1.	6), LOCKIN	G		C212	1-109-935-11	TANTAL, CHIP	4.7uF	20%	6.3V
	* - * * -	* (-,,	_		C213		TANTALUM CHIP		20%	10V
	4-990-744-01	HOLDER (REC VO)L)			C214	1-104-851-11	TANTAL, CHIP	10uF	20%	10V
*		BRACKET (JACK)	_,			C215	1-107-827-11		0.01uF	2%	16V
	4-990-748-01	ORNAMENT (REC	VOL)			C216		CERAMIC CHIP	47PF	5%	50V
	4-994-598-01		•								
	7-627-852-27					C217	1-124-576-11	ELECT	220uF	20%	4V
						C218	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
		< CAPACITOR >				C219	1-104-851-11	TANTAL, CHIP	10uF	20%	10V
						C220		TANTAL, CHIP	10uF	20%	10V
C101	1-104-851-11	TANTAL, CHIP	10uF	20%	10V	C228	1-104-851-11	TANTAL, CHIP	10uF	20%	10V
C102	1-104-851-11	TANTAL, CHIP	10uF	20%	10V						
C103	1-104-852-11	TANTAL, CHIP	22uF	20%	6.3V	C230	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C104	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C231	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C105	1-104-852-11	TANTAL, CHIP	22uF	20%	6.3V	C232	1-104-851-11	TANTAL, CHIP	10uF	20%	10V
						C233	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C106	1-104-851-11		10uF	20%	10V	C234	1-104-851-11	TANTAL, CHIP	10uF	20%	10V
C107	1-104-851-11	TANTAL, CHIP	10uF	20%	10V						
C108	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C236	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C109	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C238	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C110	1-117-223-11	FILM CHIP	0.0047uF	2%	16V	C240	1-104-851-11	TANTAL, CHIP	10uF	20%	1 0V
						C301	1-135-210-11	TANTALUM CHIP	4.7uF	20%	1 0V
C111	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C302	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
G112	1-109-935-11	TANTAL, CHIP	4.7uF	20%	6.3V						
C113	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V	C303	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
C114	1-104-851-11	TANTAL. CHIP	10uF	20%	10V	C304	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C115	1-107-827-11	FILM CHIP	0.01uF	2%	16V	C305	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V
						C306		CERAMIC CHIP	0.01uF	10%	25V
C116		CERAMIC CHIP	47PF	5%	50V	C307	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C117	1-124-576-11		220uF	20%	4V						
C118		CERAMIC CHIP	100PF	5%	50V	C308		TANTALUM CHIP		20%	10V
C119		TANTAL, CHIP	10uF	20%	10V	C309		CERAMIC CHIP	0.1uF		25V
C120	1-104-851-11	TANTAL. CHIP	10 _ย F	20%	10V	C310		TANTAL, CHIP	22uF	20%	4V
						C311		CERAMIC CHIP	0.1uF		25V
C128	1-104-851-11		10uF	20%	10V	C312	1-104-851-11	TANTAL, CHIP	10uF	20%	10V
C130		TANTALUM CHIP		20%	10V						
C131		CERAMIC CHIP	10PF	0.5PF	50V	C313	1-109-935-11		4.7uF	20%	6.3V
C132	1-104-851-11		10uF	20%	10V	C314		CERAMIC CHIP	0.01uF	10%	25V
C133	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V	C315		TANTALUM CHIP		20%	10V
0404	4 404 054 44	TAUTAL OLUD	405	000/	1011	C317		TANTAL, CHIP	10uF	20%	10V
C134	1-104-851-11		10uF	20%	10V	C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C136		CERAMIC CHIP	10PF	0.5PF	50V	0010	* 104 001 11	TANTAL CUID	105	000/	400
C138		CERAMIC CHIP	0.22uF	10%	16V	C319		TANTAL, CHIP	10uF	20%	10V
C140	1-104-851-11		10uF	20%	10V	C320	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C201	1-104-851-11	IANTAL, CHIP	10uF	20%	10V	C321		CERAMIC CHIP	0.1uF	9007	25V
0000	1 104 964 44	TABITAL OUR	10 ₀ 5	0001	1007	C322	1-104-851-11	TANTAL CHIP	10uF	20%	10V
C202	1-104-851-11		10uF	20%	107	C323	1-104-847-11	TANTAL. CHIP	22uF	20%	4V
C203	1-104-852-11		22uF	20%	6.3V	0004	4 464 466 44	CEDALUC CUID	Λ 1Ε		acu.
C204		CERAMIC CHIP	10PF	0.5PF	50V	C324	1-164-156-11	CERAMIC CHIP	0.1uF	0.007	25V
C205	1-104-852-11		22uF	20%	6.3V	C325		TANTAL, CHIP	10uF	20%	10V
C206	1-104-851-11	TANTAL, CHIP	10uF	20%	10V	C326		CERAMIC CHIP	0.1uF	9004	25V
						C327		TANTALUM CHIP		20%	10V
					!	C328	1-1 64-1 56-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	Description			Remarks
C329	1-135-210-11	TANTALUM CHIP	4 7uE	20%	10V	C530		CERAMIC CHIP	0.001uF	10%	50V
C329	1-162-970-11	CERAMIC CHIP	0.01cF	10%	25V	C531		CERAMIC CHIP	220PF	10%	50V
C331	1-135-210-11	TANTALUM CHIP		20%	10V	C532		CERAMIC CHIP	0.001uF	10%	50V
C332	1-104-852-11	TANTAL, CHIP	22uF	20%	6.3V	C533	1-117-379-21		000000000	0	0
C333		TANTALUM CHIP	_	20%	10V	C535	1-117-379-21	CAPACITOR	000000000	0	0
C334	1-135-210-11	TANTALUM CHIP	4 7uF	20%	10V	C536	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C335	1-109-930-11	TANTAL, CHIP	220uF	20%	2.5V	C537	1-135-091-00	TANTALUM CHIP		20%	16V
C336	1-135-210-11	TANTALUM CHIP		20%	10V	C538		CERAMIC CHIP	0.001uF	10%	50V
C338		TANTALUM CHIP		20%	10V	C539		CERAMIC CHIP	220PF	10%	50V
C339		CERAMIC CHIP	0.01uF	10%	25V	C540		CERAMIC CHIP	0.001uF	10%	50V
0040	1-135-210-11	TANTALUM CHIP	4 7uE	20%	10V	C541	1-117-379-21	CAPACITOR	000000000	ı n	0
C340 C341		CERAMIC CHIP	0.01uF	10%	25V	C543	1-117-379-21		00000000		0
C342	1-104-851-11	TANTAL, CHIP	10uF	20%	10V	C544		CERAMIC CHIP	0.0027uF		50V
C343		TANTAL, CHIP	4.7uF	20%	6.3V	C545		CERAMIC CHIP	0.22uF	74.70	16V
C344		CERAMIC CHIP	100PF	5%	50V	C546		CERAMIC CHIP	0.22uF		16V
0344	1-102-327-11	CETAMID OTH	10011	J /6	301	0040					
C345	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C547		CERAMIC CHIP	0.22uF		16V
C346	1-135-210-11	TANTALUM CHIP		20%	10V	C548		CERAMIC CHIP	0.1uF		25V
C347	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V	C549		CERAMIC CHIP	0.1uF		25V
C348	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C550		CERAMIC CHIP	0.1uF		25V
C350	1-135-210-11	TANTALUM CHIP	4.7uF	20%	10V	C551	1-104-851-11	TANTAL, CHIP	1 0 uF	20%	1 0V
C351	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C553	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C352		CERAMIC CHIP	100PF	5%	50V	C554	1-104-852-11		22uF	20%	10V
C353	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C555	1-117-379-21	CAPACITOR	000000000	0	0
C354	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C557	1-104-852-11	TANTAL, CHIP	22uF	20%	10V
C355	1-1 6 2-927-11	CERAMIC CHIP	100PF	5%	5 0 V	C559	1-104-852-11	TANTAL, CHIP	22uF	20%	1 0 V
C356	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C560	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C357	1-135-210-11		4.7uF	20%	10V	C561	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C358		CERAMIC CHIP	0.1uF	10%	25V	C562	1-115-169-11	TANTALUM	10uF	20%	6.3V
C359		CERAMIC CHIP	0.01uF	10%	25V	C563	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C360		CERAMIC CHIP	0.1uF	10%	25V	C564	1-135-259-11		10uF	20%	6.3V
0001	1-117-720-91	CERAMIC CHIP	4.7uF		10V	C565	1-104-852-11	TANTAL, CHIP	22uF	20%	10V
C361		CERAMIC CHIP	100PF	5%	50V	C568	1-115-169-11	TANTALUM	10uF	20%	6.3V
C501	1-162-927-11	CERAMIC CHIP	100F1	J /4	16V	C569	1-164-156-11		0.1uF	2070	25V
C502	1-135-259-11	TANTAL, CHIP	10uF	20%	6.3V	C570		CERAMIC CHIP	0.022uF	10%	25V
C503 C504	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C571		CERAMIC CHIP	0.0022uF	10%	50V
C504	1-102-900-11	GENAINIG OTHE	0.002201	10 70	301	03/1				10 75	
C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C572		CERAMIC CHIP		10%	25V
C506	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C573	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C507	1-135-091-00	TANTALUM CHIP	1uF	20%	16V	C574		CERAMIC CHIP	0.0022uF	10%	50V
C508	1-135-091-00	TANTALUM CHIP	1uF	20%	16V	C575	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C509	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C576	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C510	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C577	1-110-569-11	TANTAL, CHIP	47uF	20%	6.3V
C511		CERAMIC CHIP	0.001uF	10%	50V	C578	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C512		CERAMIC CHIP	0.001uF	10%	50V	C579	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C513			1uF	20%	16V	C580		TANTAL, CHIP	10uF	20%	10V
C514		TANTAL, CHIP	22uF	20%	6.3V	C583		CERAMIC CHIP	0.1uF		25V
C515	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C585	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C516		CERAMIC CHIP	0.1uF	1010	25V	C586		CERAMIC CHIP	0.1uF		25V
C517			1uF	20%	16V	C587		CERAMIC CHIP	0.1uF		25V
C518		CERAMIC CHIP	0.0033uF	10%	50V	C588	1-115-169-11		10uF	20%	6.3V
C518		CERAMIC CHIP	0.0035ti	10%	50V	C589		CERAMIC CHIP	0.1uF		257
0015					•••						
C520		CERAMIC CHIP	0.001uF	10%	50V	C590		CERAMIC CHIP	0.1uF	20-1	25V
C521	-	CERAMIC CHIP	0.001uF	10%	50V	C591	1-115-169-11		10uF	20%	6.3V
C522		CERAMIC CHIP	0.1uF		25V	C593		CERAMIC CHIP	0.01uF	10%	25V
C523		CERAMIC CHIP	0.1uF		25V	C594	1-135-259-11		10uF	20%	6.3V
C524	1-104-852-11	TANTAL. CHIP	22uF	20%	10V	C595	1-162-915-11	CERAMIC CHIP	10PF 0.5	5PF 50\	í
C525	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C596	1-113-619-11	CERAMIC CHIP	0.47uF		10V
C526	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C597	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C527	1-104-851-11	TANTAL. CHIP	10uF	20%	10V	C598	1-115-169-11	TANTALUM	10uF	20%	6.3V
C528	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C599	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C529	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C600	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Aemarks	Ref. No.	Part No.	Description	Remarks
C601		CERAMIC CHIP	7PF	0.5PF	50V	D506			 -
C602		CERAMIC CHIP	7PF	0.5PF	50V 50V	D508			
C603		CERAMIC CHIP	7PF	0.5PF	50V	D509		DIODE 1883	
C604		CERAMIC CHIP	7PF	0.5PF	50V	D510		DIODE 1883	
C606	1-135-259-11		10uF	20%	6.3V	D511	8-719-820-41	DIODE 1883	
C607		CERAMIC CHIP	0.47uF		10V	D512		DIODE 1883	
C608		CERAMIC CHIP	0.47uF		10V	D514			
C609	1-135-259-11		10uF	20%	6.3V	D516			
C610		TANTAL, CHIP	10uF	20%	6.3V	D517		DIODE MA7	
C611	1-135-259-11	TANTAL, CHIP	10uF	20%	6.3V	D518	8-719-421-27	DIODE MA7	28
C612	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D519	8-719-421-27	DIQUE MA7	28
C613	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D521	8-719-026-26	DIODE MA7	
C614	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D522	8-719-056-65	DIODE 1SS3	72-TE85L
C615	1-164-156-11	CERAMIC CHIP	0.†uF		25V				
C616	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< IC >	
C617	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC102	8-759-459-00	IC TLV22621	DIM/_EOA
C618		CERAMIC CHIP	0.22uF	10%	10V	IC202		IC TLV22621	
C619	1-165-128-11		0.22uF	1070	16V	IG301		IC NJM2122	
C622	1-104-851-11		10uF	20%	10V	IC302		IC TLV23621	
C623	1-135-259-11		10uF	20%	6.3V	IC303		IC TLV23621	
							3 / 33 232 33	15 12125421	
C624	1-113-619-11		0.47uF		10V	IC304		IC AK4520-V	
C625	1-164-156-11		0.1uF		25V	IC305			
C626	1-164-156-11		0.1uF		25V	IC306		IC DS1802-1	
C627	1-164-156-11		0.1uF		25V	IC307			
C628	1-164-156-11	CERAMIC CHIP	0.1uF		25V	IC308	8-759-252-90	IC [LV2362]	PW-ELM1500
C629	1-107-685-11	TANTAL, CHIP	15uF	20%	6.3V	IC309	8-759-332-22	IC DS1802-T	E2
C630	1-162-910-11		5PF	0.25PF	50V	IC310		IC TK15325N	
C631	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V	IC312	8-759-462-30	IC TK112258	BMCL.
C633	1-164-346-11	CERAMIC CHIP	1uF		16V	IC501	8-759-159-76	IC MM1138)	(Q
C634	1-104-852-11	TANTAL, CHIP	22uF	20%	10V	IC502	8-759-094-02	IC CXA80221	V
C635	1-104-851-11	TANTAL, CHIP	10uF	20%	10V	IC503	8-759-094-01	IC MB3796P	בַרַנ
C636		CERAMIC CHIP	1uF	20 /0	16V	1C504		IC LB1882V	1 -61
C637	1-162-970-11		0.01uF	10%	25V	IC505		IC CXP87532	2-035R
C638		CERAMIC CHIP	0.1uF		25V	IC506		IC CXD26071	
△ C701	1-163-013-11	CERAMIC CHIP	2200PF	10%	50V	IC507		IC CXK5V82	57BTM-70LL
		. COMMENTAR .				10500	0.750.057.50	10 41/0/0001	4.50
		< CONNECTOR >				IC508 IC508			
CN303	1-568-347-11	CONNECTOR, BOX	ARD TO BO	ADD 5D		IC506			
CN501		CONNECTOR, FFC		HUD AL		C511			
CN502		CONNECTOR, FFC		ONE		C512			
CN503		CONNECTOR, FFC	. ,			10010	0 100 240 10	10 10700041	
* CN504		CONNECTOR, FFC		10P		IC514	8-759-243-19	IC TC7SU04F	:
			(-2)			IC515			
CN505	1-573-931-11	CONNECTOR, FFC	/FPC (ZIF) 2	22P		IC518			PFV
CN506		CONNECTOR, FFC				IC519			-
CN507	1-750-377-11	SOCKET, CONNEC	TOR 7P			IC520	8-759-462-47	IC TK70001N	A-CB
		< CONPOSITION C	CIRCUIT BL	OCK >				< JACK >	
CP501	1-475-172-11	CONVERTER UNIT	t DC-DC		i	J301	1-750-369-21	JACK (MIC/LII	NE IN PLUG IN POWER)
			,			J302	1-750-369-11		
		< DIODE >				J303	1-779-496-11		
						J501			ARITY UNIFIED TYPE)
D102	8-719-421-33	DIODE MA147						,	(DC IN 4.5V)
D202		DIODE MA147							,
D301		DIODE MA728						< COIL >	
D302		DIODE MA728	7.1					INDA COMO	WB 4
D303	8-719-036-80	DIODE RD3.9SB-	·11		i	L301	1-412-002-31		
Dana	0.710.000.00	DIODE BROASS	T-1			L305	1-410-997-31		
D304 D305		DIODE RD3.9SB-				L501	1-412-006-31		
D305 D501		DIODE RD3.9SB- DIODE S807-030				L502	1-410-997-31		
D501 D504		DIODE \$807-030				L503	1-410-997-31	INDUCTOR CH	IIT 2.2UM
D504		DIODE R8160L-4				ſ	The components	identified by	Les composants identifiés par
0500	5 7 15 6 TO - 50	DIODE HOTOUL-4	MILLY		'		mark ∆ or dotted ∆ are critical for s	line with mark	une marque A sont critiques pour la sécurité.

mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

		в		Daman den 1	Def He	Dari No	Description			Remarks
Ref. No.	Part No.	Description		Remarks	Ref. No.	Part No.	Description	0004005 111.0		nemarks
L504	1-416-227-11	COIL, CHOKE	100uH		Q524 Q525	•	TRANSISTOR TRANSISTOR			
L505 L506	1-416-228-11 1-412-002-31	COIL, CHOKE INDUCTOR CHIE	82uH 2 4 7uH		Q526		TRANSISTOR			
L506	1-412-002-31	INDUCTOR CHIE			4020	0 120 200 00	1100001011	200111010		
L508		INDUCTOR CHIE			: !		< RESISTOR >			
L509	1-412-002-31	INDUCTOR CHIE	2 4 7uH		R 10 1	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
L510		INDUCTOR	47uH		R102	1-216-837-11		22K	5%	1/16W
L511		INDUCTOR CHIE	2.2uH		R103	1-216-838-11	METAL CHIP	27K	5%	1/16W
L512		INDUCTOR CHIE			R104	1-218-895-11		100K	0.50%	1/16W
L513	1-412-002-31	INDUCTOR CHIP	9 4.7uH		R105	1-218-839-11	METAL GLAZE	470	0.50%	1/16W
L514	1-412-006-31	INDUCTOR CHIE	2 10uH		R106		METAL GLAZE	4.7K	0.50%	1/16W
L515		INDUCTOR CHIP			R107	1-216-837-11		22K	5%	1/16W
L516	1-412-002-31	INDUCTOR CHIE			R108		METAL GLAZE	47K 470	0.50% 5%	1/16W 1/16W
L517	1-411-312-11	FILTER, COMMO	IN MODE		R109 R110	1-216-817-11	METAL CHIP	470 33K	0.50%	1/16W
		< TRANSISTOR	>		n!iu	1-210-003-11	METAL GLAZE			
					R111	1-216-833-11		10K	5%	1/16W
Q101		TRANSISTOR 2			R115	1-216-843-11 1-216-841-11		68K 47K	5% 5%	1/16W 1/16W
Q201		TRANSISTOR 2			R116 R117		METAL CHIP	33K	0.50%	1/16W
Q301 Q302		TRANSISTOR 2			R118		METAL GLAZE		0.50%	1/16W
Q302 Q303		TRANSISTOR)			11110	1218 041 11	THE INE GENEE		0.0070	
4000	0 125 420 40	1100001011			R120	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
Q304	8-729-427-83	TRANSISTOR >	XP6501		R121	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q305	8-729-427-83	TRANSISTOR >	XP6501		R122	1-216-837-11		22K	5%	1/16W
Q306		TRANSISTOR 2			R123	1-216-837-11		22K	5%	1/16W
Q307		TRANSISTOR 2			R124	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q308	8 -7 2 9-427 -8 3	TRANSISTOR >	XP6501		DAGE	1-216-825-11	METAL CUID	2.2K	5%	1/16W
Q309	0 700 407 90	TRANSISTOR 2	VDC401		R125 R126	1-216-841-11		47K	5%	1/16W
Q310		TRANSISTOR 2			R127	1-216-809-11		100	5%	1/16W
Q311		TRANSISTOR 2			R129		METAL GLAZE		0.50%	1/16W
Q312		TRANSISTOR 2			R130	1-218-871-11	METAL GLAZE	10K	0.50%	1/16W
Q313		TRANSISTOR 2								
					R131	1-216-831-11		6.8K	5%	1/16W
Q315		TRANSISTOR 2			R132	1-216-833-11		10K	5%	1/16W
Q318		TRANSISTOR 2			R133	1-216-833-11		10K	5%	1/16W 1/16W
Q319		TRANSISTOR 2			R135 R136	1-216-833-11 1-216-837-11		10K 22K	5% 5%	1/16W
Q320 Q321		TRANSISTOR 2			n 130	1-210-007-11	WILTHE OTT	ZZK	D 70	17 1017
QUL I	0-723 200 00	1111110101011	20/1/000 10		R137	1-218-891-11	METAL GLAZE	68K	0.50%	1/16W
0322	8-729-230-60	TRANSISTOR :	2SA1586-YG		R138	1-218-873-11	METAL GLAZE	12K		1/1 6W
0323		TRANSISTOR 2			R151		METAL GLAZE			1/1 6W
0324		TRANSISTOR :			R152	1-216-837-11		22K	5%	1/16W
0325		TRANSISTOR 3			R153	1-218-847-11	METAL GLAZE	1K	0.50%	1/1 6W
Q326	8-729-402-93	TRANSISTOR	UN5214-1X		R154	1-216-833-11	METAL CHIP	10K	5%	1/16W
Q327	9_720_427_90	TRANSISTOR 3	YP6401		R155	1-216-308-00		4.7	5%	1/10W
Q328		TRANSISTOR :			R156		METAL GLAZE			1/16W
Q329		TRANSISTOR			R157		METAL GLAZE		0.50%	1/16W
Q330		TRANSISTOR			R158	1-218-885-11	METAL GLAZE	39K	0.50%	1/16W
Q331	8-729-425-46	TRANSISTOR :	XP4315-TXE							4.4.0144
					R159	1-216-833-11		10K	5%	1/16W
0332		TRANSISTOR :			R160	1-216-813-11 1-216-825-11		220 2.2K	5% 5%	1/16W 1/16W
Q503		TRANSISTOR :			R161 R162	1-216-821-11		2.2N 1K	5%	1/16W
Q504 Q505		TRANSISTOR :			R163		METAL GLAZE		0.50%	1/16W
Q505 Q506		TRANSISTOR :]	/ , 556 / 1			•	
GODO	3 , 20 200 00				R201	1-216-830-11	METAL CHIP	5.6K	5%	1/16W
Q508		TRANSISTOR			R202	1 - 216-837-11		22K	5%	1/16W
Q509		TRANSISTOR :			R203	1-216-838-11		27K	5%	1/16W
Q511		TRANSISTOR :			R204		METAL GLAZE		0.50%	
Q513		TRANSISTOR			R205	1-218-839-11	METAL GLAZE	470	0.50%	1/16W
Q514	8-729-928-27	TRANSISTOR	UTAT44EE		R206	1_218_863_11	METAL GLAZE	4.7K	0.50%	1/16W
Q515	8-729-928-81	TRANSISTOR	DTC144FF		R207	1-216-837-11		22K	5%	1/16W
Q515 Q516		TRANSISTOR			R208	1-218-887-11			0.50%	1/16W
Q517		TRANSISTOR			R209	1-216-817-11		470	5%	1/16W
0522		TRANSISTOR			R210		METAL GLAZE	33K	0.50%	1/16W
Q523	8-729-928-81	TRANSISTOR	DTC144EE							

Ref. No.	Part No.	Description			Remarks	Ref. No.	Part No.	<u>Description</u>			Remarks
R211	1-216-833-11	METAL CHIP	10K	5%	1/16W	R330	1-216-833-11	METAL CHIP	10K	5%	1/16W
R215	1-216-843-11		68K	5%	1/16W	R331	1-216-809-11		100	5%	1/16W
R216	1-216-841-11		47K	5%	1/16W	R332	1-216-841-11	METAL CHIP	47K	5%	1/16W
R217		METAL GLAZE	33K	0.50%	1/16W	R333	1-216-797-11		10	5%	1/16W
R218		METAL GLAZE	1K	0.50%	1/16W	R334	1-216-833-11		10K	5%	1/16W
R220	1-216-828-11	METAL CHIP	3.9K	5%	1/16W	R335	1-216-833-11	METAL CHIP	10K	5%	1/16W
R221	1-216-833-11		10K	5%	1/16W	R336	1-216-833-11		10K	5%	1/16W
R222	1-216-837-11		22K	5%	1/1 6W	R337	1-216-845-11		100K	5%	1/16W
R223	1-216-837-11		22K	5%	1/16W	R338	1-216-833-11		10K	5%	1/16W
R224	1-216-833-11		10K	5%	1/1 6W	R339	1-216-833-11		10K	5%	1/16W
			-	-							
R225	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	R340	1-216-849-11	METAL CHIP	220K	5%	1/16W
R226	1-216-841-11	METAL CHIP	47K	5%	1/1 6W	R341	1-216-833-11	METAL CHIP	10K	5%	1/16W
R227	1-216-809-11	METAL CHIP	100	5%	1/16W	R342	1-216-833-11	METAL CHIP	10K	5%	1/16W
R229	1-218-871-11	METAL GLAZE	10K	0.50%	1/16W	R343	1-216-833-11	METAL CHIP	10K	5%	1/16W
R230	1-218-871-11	METAL GLAZE	10K	0.50%	1/1 6W	R344	1-216-833-11	METAL CHIP	10K	5%	1/16W
R231	1-216-831-11	METAL CHIP	6.8K	5%	1/16W	R345	1-216-845-11	METAL CHIP	100K	5%	1/16W
R232	1-216-833-11	METAL CHIP	10K	5%	1/16W	R346	1-216-809-11	METAL CHIP	100	5%	1/16W
R233	1-216-833-11	METAL CHIP	10K	5%	1/16W	R347	1-216-841-11	METAL CHIP	47K	5%	1/16W
R235	1-216-833-11		10K	5%	1/16W	R348	1-216-833-11		10K	5%	1/16W
R236	1-216-837-11		22K	5%	1/16W	R349	1-216-833-11		10K	5%	1/16W
11200	1 210 001 11								. • • • • • • • • • • • • • • • • • • •	•	
R237	1-218-891-11	METAL GLAZE	68K	0.50%	1/16W	R350	1-216-833-11	METAL CHIP	10K	5%	1/16W
R238		METAL GLAZE	12K	0.50%	1/16W	R351	1-216-809-11		100	5%	1/16W
R251		METAL GLAZE	220	0.50%	1/16W	R352	1-216-825-11		2.2K	5%	1/16W
R252	1-216-837-11		22K	5%	1/16W	R353	1-216-833-11		10K	5%	1/16W
R253		METAL GLAZE	1K	0.50%	1/16W	R354	1-216-849-11		220K	5%	1/16W
11200	1 210 047 11	HICTAL GENEE	***	0.00.0	17 10 11	1100-	1 210 0 70 11	WENTE OUT	LLON	0.70	
R254	1-216-833-11	METAL CHIP	10K	5%	1/16W	R355	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R255	1-216-308-00		4.7	5%	1/10W	R356	1-216-825-11		2.2K	5%	1/16W
R256		METAL GLAZE	10K	0.50%	1/16W	R357	1-216-825-11		2.2K	5%	1/1 6W
R257		METAL GLAZE	20K	0.50%	1/16W	R358	1-216-825-11		2.2K	5%	1/1 6W
R258		METAL GLAZE	39K	0.50%	1/16W	R359	1-216-833-11		10K	5%	1/16W
11230	1 210 003 11	WICHAL GENZE	0310	0.0070	17 1011	1,000	1 210 000 11	MEIAL OIL	1011	5.0	17 1011
R259	1-216-833-11	METAL CHIP	10K	5%	1/16W	R360	1-216-849-11	METAL CHIP	220K	5%	1/16W
R260	1-216-813-11		220	5%	1/16W	R361	1-216-825-11		2.2K	5%	1/16W
R261	1-216-825-11		2.2K	5%	1/16W	R362	1-216-864-11		0	5%	1/16W
R262	1-216-821-11		1K	5%	1/16W	R363	1-216-833-11		10K	5%	1/16W
R263		METAL GLAZE	47	0.50%	1/16W	R364	1-216-837-11		22K	5%	1/16W
11200	1 211 903 11	WILLIAL GLAZE	71	0.0070	17 10 44	11007	1 210 007 11	MEIAE OIII	ZZN	0 70	17 1077
R301	1-216-845-11	METAL CHIP	100K	5%	1/16W	R365	1-216-864-11	METAL CHIP	0	5%	1/16W
R302	1-216-815-11		330	5%	1/16W	R366	1-216-864-11		Ö	5%	1/16W
R303	1-216-841-11		47K	5%	1/16W	R367	1-216-864-11		Õ	5%	1/16W
R304	1-216-854-11		560K	5%	1/16W	R368	1-216-864-11		Õ	5%	1/16W
R305	1-216-845-11		100K	5%	1/16W	R369	1-216-864-11		Ö	5%	1/16W
nous	1-210-043-11	WEIAL OTHE	TOOK	370	17 10 44	11303	1-210-004-11	WICIAL OTT	V	J /0	17 1 0 4 4
R306	1-216-845-11	METAL CHIP	100K	5%	1/16W	R370	1-216-864-11	METAL CHIP	0	5%	1/16W
R307	1-216-845-11		100K	5%	1/16W	R371	1-216-864-11		ů	5%	1/16W
R308	1-216-813-11		220	5%	1/16W	R372	1-216-864-11		Õ	5%	1/16W
R309	1-216-817-11		470	5%	1/16W	R373	1-216-864-11		0	5%	1/16W
R310	1-216-829-11		4.7K	5%	1/16W	R374	1-216-308-00		4.7	5%	1/10W
noio	1-210-025-11	METAL CHIP	44.7 IV	J 70	17 1044	1074	1-210-300-00	WICIAC OTTI	7.1	370	17 10 11
R313	1-216-845-11	METAL CHID	10 0 K	5%	1/16W	R375	1-216-809-11	METAL CHIP	100	5%	1/16W
R314	1-216-845-11		100K	5%	1/16W	R376	1-216-809-11		100	5%	1/16W
			2.2K	5% 5%	1/16W	R503	1-216-828-11		3.9K	5%	1/16W
R315	1-216-825-11					R503	1-216-834-11		3.9K 12K	5%	1/16W
R316	1-216-833-11		10K	5%	1/16W 1/16W	R505			12K 12K		1/16W
R317	1-216-844-11	WETAL GRIP	82K	5%	IV FORM	กอบอ	1-216-834-11	METAL CHIP	IZK	5%	17 10 44
R318	1.010.040.11	METAL GLAZE	1.2K	0.50%	1/16W	R506	1-216-834-11	METAL CHID	12K	5%	1/16W
R318 R319	1-216-849-11		1.2K 2.2K	0.50% 5%	1/16W	R506	1-216-834-11		150	5%	1/16W
			2.2N 10K	5%	1/16W	R507	1-217-806-11		1 1	5%	1/16W
R320	1-216-833-11					l		METAL GLAZE	1		1/8W
R321	1-216-825-11		2.2K	5% sv	1/16W	R509				5% 5%	
R322	1-216-849-11	WETAL CHIP	220K	5%	1/16W	R510	1-216-843-11	WEIAL GRIP	68K	5%	1/ 16W
Dage	1_016_001 11	METAL CUID	11/	E0/.	1/1897	DE11	1_016_949_14	METAL CHIP	een	E9/	1/16\4/
R325	1-216-821-11		1K	5%	1/16W	R511	1-216-843-11		68K	5% 5%	1/16W
R326	1-216-833-11		10K	5%	1/16W	R512	1-216-840-11		39K	5% co/	1/16W
R327	1-216-845-11		100K	5%	1/16W	R513	1-216-813-11		220	5% 5%	1/16W
R328	1-216-841-11		47K	5%	1/16W	R514	1-216-813-11		220	5%	1/16W
R329	1-216-841-11	METAL CHIP	47K	5%	1/16W	R515	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

Ref. No. Part No. Description Remarks Ref. No. Part No. Description R516 1-216-832-11 METAL CHIP 8.2K 5% 1/16W R589 1-216-841-11 METAL CHIP R517 1-216-828-11 METAL CHIP 3.9K 5% 1/16W R590 1-216-817-11 METAL CHIP R519 1-216-830-11 METAL CHIP 82 5% 1/16W R591 1-216-817-11 METAL CHIP R520 1-216-843-11 METAL CHIP 82 5% 1/16W R593 1-216-842-11 METAL CHIP R522 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R594 1-216-849-11 METAL CHIP R523 1-216-825-11 METAL CHIP 10K 5% 1/16W R595 1-216-849-11 METAL CHIP R525 1-216-821-11 METAL CHIP 10K 5% 1/16W R596 1-216-845-11 METAL CHIP R526 1-216-821-11 METAL GLAZE 0.39 10%	47K 470 470 56K 220K 100 100K 100K 100K 100K 100K 100K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	Remarks 1/16W
R517 1-216-828-11 METAL CHIP 3.9K 5% 1/16W R590 1-216-817-11 METAL CHIP R518 1-216-830-11 METAL CHIP 5.6K 5% 1/16W R591 1-216-817-11 METAL CHIP R519 1-216-023-00 METAL CHIP 82 5% 1/10W R593 1-216-842-11 METAL CHIP R520 1-216-843-11 METAL CHIP 68K 5% 1/16W R594 1-216-849-11 METAL CHIP R522 1-216-825-11 METAL CHIP 10K 5% 1/16W R595 1-216-809-11 METAL CHIP R523 1-216-825-11 METAL CHIP 10K 5% 1/16W R596 1-216-845-11 METAL CHIP R526 1-208-613-21 METAL GLAZE 0.39 10% 1/8W R597 1-216-845-11 METAL CHIP R527 1-208-613-21 METAL CHIP 100K 5% 1/16W R600 1-216-845-11 METAL CHIP R528 1-216-845-11 METAL CHIP	470 470 56K 220K 100 100K 100K 100K 100K 100K 100K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R518 1-216-830-11 METAL CHIP 5.6K 5% 1/16W 8591 1-216-817-11 METAL CHIP R519 1-216-023-00 METAL CHIP 82 5% 1/10W R593 1-216-842-11 METAL CHIP R520 1-216-843-11 METAL CHIP 68K 5% 1/16W R594 1-216-849-11 METAL CHIP R522 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R595 1-216-809-11 METAL CHIP R523 1-216-833-11 METAL CHIP 10K 5% 1/16W R596 1-216-845-11 METAL CHIP R525 1-216-831-11 METAL CHIP 10K 5% 1/16W R597 1-216-845-11 METAL CHIP R526 1-208-613-21 METAL GLAZE 0.39 10% 1/8W R598 1-216-845-11 METAL CHIP R527 1-208-613-21 METAL CHIP 100K 5% 1/16W R600 1-216-845-11 METAL CHIP R528 1-216-845-11 METAL CHIP	470 56K 220K 100 100K 100K 100K 100K 100K 100K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R519 1-216-023-00 METAL CHIP 82 5% 1/10W R593 1-216-842-11 METAL CHIP R520 1-216-843-11 METAL CHIP 68K 5% 1/16W R594 1-216-849-11 METAL CHIP R522 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R595 1-216-809-11 METAL CHIP R523 1-216-833-11 METAL CHIP 10K 5% 1/16W R596 1-216-845-11 METAL CHIP R525 1-216-831-21 METAL CHIP 10K 5% 1/16W R597 1-216-845-11 METAL CHIP R526 1-208-613-21 METAL GLAZE 0.39 10% 1/8W R598 1-216-845-11 METAL CHIP R527 1-208-613-21 METAL CHIP 100K 5% 1/16W R600 1-216-845-11 METAL CHIP R528 1-216-845-11 METAL CHIP 100K 5% 1/16W R601 1-216-801-11 METAL CHIP R530 1-216-845-11 METAL CHIP	56K 220K 100 100K 100K 100K 100K 100K 100 470 470 10K 330 680 4.7K 4.7K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R520 1-216-843-11 METAL CHIP 68K 5% 1/16W R594 1-216-849-11 METAL CHIP R522 1-216-825-11 METAL CHIP 2.2K 5% 1/16W R595 1-216-809-11 METAL CHIP R523 1-216-833-11 METAL CHIP 10K 5% 1/16W R596 1-216-845-11 METAL CHIP R525 1-216-821-11 METAL CHIP 1K 5% 1/16W R597 1-216-845-11 METAL CHIP R526 1-208-613-21 METAL GLAZE 0.39 10% 1/8W R598 1-216-845-11 METAL CHIP R527 1-208-613-21 METAL CHIP 100K 5% 1/16W R600 1-216-845-11 METAL CHIP R528 1-216-845-11 METAL CHIP 100K 5% 1/16W R600 1-216-801-11 METAL CHIP R529 1-216-845-11 METAL CHIP 100K 5% 1/16W R601 1-216-801-11 METAL CHIP R530 1-216-845-11 METAL CHIP	220K 100 100K 100K 100K 100K 100K 100K 1	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
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R526 1-208-613-21 METAL GLAZE 0.39 10% 1/8W R598 1-216-845-11 METAL CHIP R527 1-208-613-21 METAL GLAZE 0.39 10% 1/8W R599 1-216-845-11 METAL CHIP R528 1-216-845-11 METAL CHIP 100K 5% 1/16W R600 1-216-801-11 METAL CHIP R529 1-216-845-11 METAL CHIP 100K 5% 1/16W R601 1-216-845-11 METAL CHIP R530 1-216-845-11 METAL CHIP 100K 5% 1/16W R602 1-216-845-11 METAL CHIP R531 1-218-887-11 METAL GLAZE 47K 0.50% 1/16W R603 1-216-845-11 METAL CHIP R532 1-218-887-11 METAL GLAZE 47K 0.50% 1/16W R606 1-216-817-11 METAL CHIP R533 1-216-801-11 METAL CHIP 22 5% 1/16W R607 1-216-817-11 METAL CHIP R535 1-216-829-11 METAL CHIP <td>100K 100K 22 100K 100K 100 470 470 10K 330 680 4.7K 4.7K</td> <td>5% 5% 5% 5% 5% 5% 5% 5%</td> <td>1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W</td>	100K 100K 22 100K 100K 100 470 470 10K 330 680 4.7K 4.7K	5% 5% 5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
R527 1-208-613-21 METAL GLAZE 0.39 10% 1/8W R599 1-216-845-11 METAL CHIP R528 1-216-845-11 METAL CHIP 100K 5% 1/16W R600 1-216-801-11 METAL CHIP R529 1-216-845-11 METAL CHIP 100K 5% 1/16W R601 1-216-845-11 METAL CHIP R530 1-216-845-11 METAL CHIP 100K 5% 1/16W R602 1-216-845-11 METAL CHIP R531 1-218-887-11 METAL GLAZE 47K 0.50% 1/16W R603 1-216-809-11 METAL CHIP R532 1-218-887-11 METAL GLAZE 47K 0.50% 1/16W R606 1-216-817-11 METAL CHIP R533 1-216-801-11 METAL CHIP 22 5% 1/16W R607 1-216-817-11 METAL CHIP R534 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R610 1-216-833-11 METAL CHIP R535 1-216-829-11 METAL CHIP <td>100K 22 100K 100K 100 470 470 10K 330 680 4.7K 4.7K</td> <td>5% 5% 5% 5% 5% 5% 5% 5%</td> <td>1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W</td>	100K 22 100K 100K 100 470 470 10K 330 680 4.7K 4.7K	5% 5% 5% 5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W 1/16W
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R533 1-216-801-11 METAL CHIP 22 5% 1/16W R607 1-216-817-11 METAL CHIP R534 1-216-829-11 METAL CHIP 4.7K 5% 1/16W R610 1-216-833-11 METAL CHIP R535 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R611 1-216-815-11 METAL CHIP R536 1-216-849-11 METAL CHIP 220K 5% 1/16W R612 1-216-819-11 METAL CHIP R537 1-216-826-11 METAL CHIP 2.7K 5% 1/16W R613 1-216-829-11 METAL CHIP R538 1-216-844-11 METAL CHIP 82K 5% 1/16W R614 1-216-829-11 METAL CHIP R539 1-216-845-11 METAL CHIP 100K 5% 1/16W R615 1-216-829-11 METAL CHIP	470 10K 330 680 4.7K 4.7K	5% 5% 5% 5% 5%	1/16W 1/16W 1/16W 1/16W
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R539 1-216-845-11 METAL CHIP 100K 5% 1/16W R615 1-216-829-11 METAL CHIP	4.7K		1/16W
		5%	1/16W
R540 1-216-845-11 METAL CHIP TUUK 5% 1/16W H016 1-216-819-11 METAL CHIP			
		5%	1/16W
R541 1-216-845-11 METAL CHIP 100K 5% 1/16W R617 1-216-825-11 METAL CHIP	2.2K	5%	1/16W
R542 1-216-845-11 METAL CHIP 100K 5% 1/16W R618 1-216-830-11 METAL CHIP	5.6K	5%	1/16W
R543 1-216-845-11 METAL CHIP 100K 5% 1/16W R619 1-216-830-11 METAL CHIP	5.6K	5%	1/16W
R544 1-216-845-11 METAL CHIP 100K 5% 1/16W R620 1-216-825-11 METAL CHIP	2.2K	5%	1/16W
R545 1-216-845-11 METAL CHIP 100K 5% 1/16W R621 1-216-845-11 METAL CHIP	100K	5%	1/16W
R546 1-216-845-11 METAL CHIP 100K 5% 1/16W R622 1-216-845-11 METAL CHIP	100K	5%	1/16W
į daras ir d	2.2K	5%	1/16W
R550 1-216-809-11 METAL CHIP 100 5% 1/16W R624 1-216-825-11 METAL CHIP	2.21	J /0	17 1044
R551 1-216-809-11 METAL CHIP 100 5% 1/16W < SWITCH >			
R553 1-216-821-11 METAL CHIP 1K 5% 1/16W			
R554 1-216-838-11 METAL CHIP 27K 5% 1/16W S301 1-771-093-11 SWITCH, SLIE	E (MIC/LINE	IN)	
R555 1-216-840-11 METAL CHIP 39K 5% 1/16W S302 1-692-605-31 SWITCH, SLID	1	,	
	- IAL/MIC LIM	ITER/AUT	O(AGC))
\$303 1-572-922-11 SWITCH, SLIE			
R557 1-216-838-11 METAL CHIP 27K 5% 1/16W S304 1-571-277-51 SWITCH, SLIC			,
R558 1-216-838-11 METAL CHIP 27K 5% 1/16W \$305 1-571-754-31 \$WITCH, PUS			re\
R559 1-216-845-11 METAL CHIP 100K 5% 1/16W		, ///[· - ;
	E /SD/LD)		
		ACL I/A	
RS61 1-216-837-11 METAL CHIP 22K 5% 1/16W S502 1-572-688-11 SWITCH, PUS S503 1-572-498-11 SWITCH, SLID		AOLN)	
R562 1-216-825-11 METAL CHIP 2.2K 5% 1/16W	_ (01		
R563 1-216-837-11 METAL CHIP 22K 5% 1/16W < VIBRATOR >			
R565 1-216-805-11 METAL CHIP 47 5% 1/16W			
R566 1-216-827-11 METAL CHIP 3.3K 5% 1/16W X501 1-767-498-11 OSCILLATOR,	CRVSTAL 22	5702MH	,
R568 1-216-847-11 METAL CHIP 150K 5% 1/16W X502 1-767-499-11 OSCILLATOR, X503 1-767-500-11 OSCILLATOR,			
R569 1-216-841-11 METAL CHIP 47K 5% 1/16W	• • • • • • • • • • • • • • • • • • • •		-
R570 1-216-833-11 METAL CHIP 10K 5% 1/16W ************************************	*****	******	<*******
R571 1-216-833-11 METAL CHIP 10K 5% 1/16W			
R572 1-216-833-11 METAL CHIP 10K 5% 1/16W 1-665-812-11 REC VOL BOA	RD.		
R573 1-216-829-11 METAL CHIP 4.7K 5% 1/16W ************************************			
This board is included in the M	AIN BOARD		
R574 1-216-819-11 METAL CHIP 680 5% 1/16W			
R575 1-216-833-11 METAL CHIP 10K 5% 1/16W <connector< td=""><td>></td><td></td><td></td></connector<>	>		
R576 1-216-809-11 METAL CHIP 100 5% 1/16W			
R577 1-216-809-11 METAL CHIP 100 5% 1/16W CN304 1-568-324-11 CONNECTOR.	BOARD TO B	SOARD 5P	•
R578 1-216-809-11 METAL CHIP 100 5% 1/16W		y ⊃ ↓ 1	
VARIABLE RI	SISTOR>		
R579 1-216-809-11 METAL CHIP 100 5% 1/16W			
R580 1-216-819-11 METAL CHIP 680 5% 1/16W RV301 1-225-463-11 RES, VAR. CAI	RBON 50K/50	OK (REC P	REVEL)
R581 1-216-829-11 METAL CHIP 4.7K 5% 1/16W		-	
R582 1-216-809-11 METAL CHIP 100 5% 1/16W ************************************	*****	*****	******
R587 1-216-841-11 METAL CHIP 47K 5% 1/16W :			

Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS			ACCESSORIE:	S & PACKING MATERIALS	
_		*****			****	*********	
5	1-475-171-11	PC BOARD UNIT, SYSTEM CONTROL			1-475-194-11	ADAPTOR, BATTERY CHARG	3E
58	1-665-830-11	PC BOARD, MOTOR FLEXIBLE		i	1-475-196-11	REMOTE COMMANDER	
59	8-719-031-97	DIODE NJL5134KL			1-528-787-11	BATTERY, NICKEL HYDROG	EN
64	1-801-766-11	RF MODULE			1-569-007-11	ADAPTOR, CONVERSION 26	P (JEW)
116	1-475-190-11	INVERTER UNIT			3-800-626 -01	INSTRUCTION (A7 SIZE) (J	(Ú) (JÁPAN)
118	8-839-042-11	DRUM ASSY DOU-28A/J-N			3-858-733-01	MANUAL, INSTRUCTION (JA	EW) (JAPANESE)
131	1-698- 9 59-11	MOTOR, DC			3-858-733-11	MANUAL, INSTRUCTION (EI	
155	1-475-193-11	PC BOARD UNIT, SENSOR			3-858-733-21	MANUAL, INSTRUCTION (A	
175	1-698-958 -11	MOTOR, CAPSTAN		l			GERMAN/SPANISH)
					3-858-733-31	MANUAL, INSTRUCTION (A)	
******	*******	**************	****			•	(ITALIAN/DUTCH)
					3-858-733-41	MANUAL, INSTRUCTION (A)	EP)
							DISH/PORTUGUESE)
					3-858-733-51	MANUAL, INSTRUCTION (JE	(W)
							(CHINESE/KOREAN)
					4-991-525-01	CASE, CARRYING	. ,
					4-992-300-01	CASE, ACC (US, CND, AEP, J	EW)
					4-992-301-01		,
					4-992-301-01	LABEL, MODEL NUMBER (J)	(JEW)
					8-953-208-90	HEADPHONE MDR-E747SP	

TCD-D100

SONY

SERVICE MANUAL

Ver 1.0 1998.07

US Model Canadian Model AEP Model Australian Model Tourist Model

CORRECTION-1

Correct your service manual as shown below.

· : Indicates corrected portion

Page		11	ICORRECT		CORRECT
	Ref No.	Part No.	<u>Description</u>	Part No.	Description
			& PACKING MATERIALS ************************************		ACCESSORIES & PACKING MATERIALS ************************************
57		1-475-194-11	ADAPTOR,BATTERY CHARGE		ADAPTOR,BATTERY CHARGE ASSY (US/Canadian/AEP/Australian) ADAPTOR,BATTERY CHARGE ASSY (Tourist)
				1-475-195-11	ADAPTOR,AC (AC-E45AM) (Tourist)

(ECN-DA800241)

TCD-D100

SONY

SERVICE MANUAL

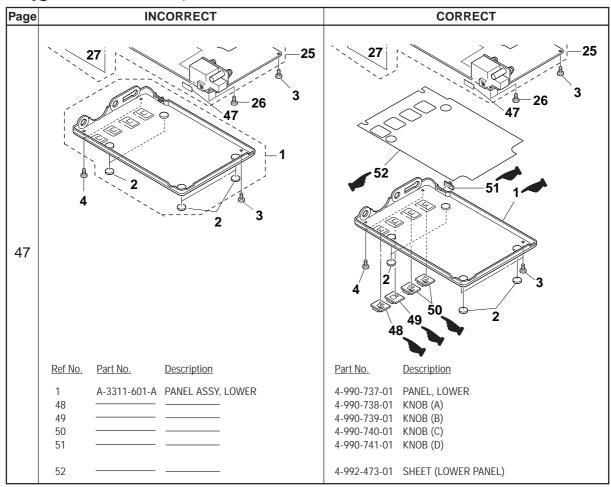
Ver 1.0 1999, 04

US Model Canadian Model AEP Model Australian Model Tourist Model

CORRECTION-2

Correct your service manual as shown below.

· : Indicates corrected portion



(RPC-99005)