**BULLETINE No. E341** 

TX-7

DATE: April, 1985

## Improvement of Cassette Interface Characteristics

#### • Purpose:

In order to assure more stabilized loading by various type of cassette tape recorder, software and hardware are improved.

#### • Modifications:

- Software change (System ROM Version change).
  - (1) When TX-7 fails to receive data signals due to phase difference,

Old: Some data are not received depending on phase shifted.

New: Data will be received regardless phase shifted.

(2) Setting of Attenuation parameter of each Tone after load has completed.

Old: No setting function (Previous setting values remain.)

New: Attenuation parameter for each Tone is set compulsorily at maximum. (Value 7)

(3) When voice data composed by means of YRM-13 is loaded from the tape to TX-7,

Old: No sound is produced or only C-2 sound is produced because both Low Limit

and Hight Limit are set to C-2.

New: The Low Limite and Hight Limit are compulsorily set to C-2 and G-8 respect-

ively.

(4) When the cassette tape recorder volume is completely set to off position during load operation (When the output is reduced to zero),

Old: TX-7 enters the software loop waiting for next signal wave and continues to wait

torever.

New: TX-7 indicates "ERROR" display immediately.

(5) When some data (i.e. MSX game soft, etc.) is mistakenly loaded to TX-7 from a certain cassette tape other than one saved from TX-7 or one saved with voice data by YRM-13,

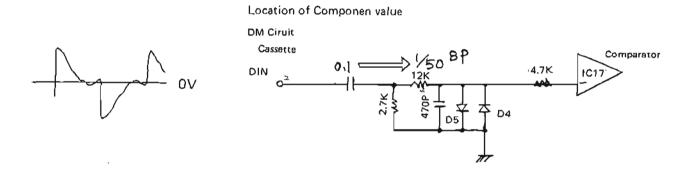
Old: TX-7 takes in and random data enter voice buffer.

Vew: T

New: TX-7 indicated "FOUND" display, but ignores the following data and indicats "ERROR" display.

\* Hardware change (Load Circuit Filter Characteristics change).

In some cassette tape recorders, when saving or loading, input signals are excessively differenciated and input signal wave-forms become as shown in the below figure. Hence these wave-forms reach the comparator threshold and errors occur. To prevent this trouble at most, the capacitance value will be changed and thus cut-off frequency will lower.



## • Parts:

Part Name	Part No.	Version No.
System ROM OLD NEW	iN011110 iN011120	V1. 1 V2. 2
Bipolar Capacitor 1μ/50V	FM116100	

- Servicing:
  When any above symptom is found out, change System ROMs and capacitors.
- Application to production:

S/# 4601 and up

TX-7

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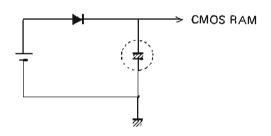
## Use of Tantalum Capacitor in Back-up Circuit on DM Circuit Board

• Purpose:

For reduction of leaking electric current.

Contents:

The mini-sized chemical capacitor, which is used in RAM back-up circuit driven by a lithium battery, will be replaced by a tantalum capacitor in order to reduce the leakage.



• Parts:

Part Name	Part No.
Tantalum Capacitor 10μ/16V	FP337100

• Application to production:

S/# 6401 and up

T X 7

BULLETIN NO.E-367

DATE: SEP. 1985

# CORRECTION OF PART NUMBER

Please make the following correction to your Service Manual.

# PAGE 38

Ref No.	DESCRIPTION	INCORRECT	CORRECT
3	Toothed Lock Washer	EV410000	EV413036
20	LCD Module	NA814410	JN200060

correction of part number

ТХ7

**BULLETIN NO.: E-368** 

DATE: February, 1986

#### ROM UPDATE

ROM Ver. 1.3 (Part #: IN011130)

The following functional problems were discovered in ROM Ver. 1.2 (IN011120) which was updated to Ver. 1.3 (IN011130).

- When going down in pitch with a glissando using a voice which has been transposed to C-sharp or to E, G or B-flat, the final note fails to descend to the intended note and instead stops at a note which is a semitone higher. This has been improved.
- Normally, when the MIDI cable is disconnected during use, the MIDI data should be initialized and sound production should stop.

However, with ROM Ver. 1.2 when the MIDI cable is disconnected, the MIDI data is not initialized. And if the key on data is received without status, the TX7 conducts running status processing and produces sound. This has been improved.

ROM Ver, 1.4 (Part #: IN011140)

The following functional problem has been discovered in ROM Ver. 1.3 which has been updated to Ver. 1.4. There are a total of 38 TX7's which have the ROM Ver. 1.3, all of which were shipped to the domestic market.

Serial numbers are as follows:

9984, 9989, 9992, 10014, 10021-10024, 10031, 10034, 10037, 10039, 10050, 10055, 10056, 10067-10069, 10072-10074, 10079, 10082, 10084, 10087, 10090, 10092, 10095, 10096, 10101-10104, 10119, 10121, 10125, 10126, 10128

When a DX7 and TX7 are connected with a MIDI cable and the voice is changed on either the DX7
or TX7 while holding down keys on the DX7, notes will continue to sound and the simultaneous
notes (up to 16 notes) will be decreased if the transpose set is different for the voice before change
and the voice after change.

This modification has been implemented on products with the following serial numbers:

10129 and up.

QX1, TX816 TX7

BULLETIN NO .: E-390

DATE: April, 1987

## Part Numbers for Accessories

Please add the following accessories, which are provided with the units, to your parts list.

Part #	Description	
JM400030	Demonstration Disk for QX1	
JM400040	Demonstration Disk for TX816 by QX1	
JM130060	Performance Data Tape for TX7	