



# SERVICE MANUAL

## TU-X711

DIGITAL SYNTHESIZER TUNER

### NOTE

TU-X711 is additional model which external appearances are different from those of TU-X701. This manual contains PACKING LIST, ACCESSORY LIST, OTHER PARTS LIST and ELECTRIC PARTS LIST. For servicing, refer to this manual together with TU-X701 Service Manual previously issued.

### CAUTION

1. Parts identified by the  $\triangle$  symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.

### NOTE

1. The symbols, EU, SS and XX <EXPORT> on the parts list and the schematic diagram mean followings respectively.

EU..... Manufactured for European market.  
 SS..... Manufactured for Saudi Arabia market.  
 XX <EXPORT> .. Standard Version.  
 NON MARK..... Common Parts.

2. On the parts list, the changed parts are specified by "#" mark on top of the parts No.

## Specifications

### FM Section

Tuning range .....	87.5 to 108 MHz
Usable sensitivity	
Mono IHF .....	10.8 dBf (0.95 $\mu$ V/75 $\Omega$ )
50 dB quieting sensitivity	
Mono .....	16.2 dBf
Stereo .....	37.0 dBf
Signal to noise ratio at 85 dBf	
Mono .....	98 dB
Stereo .....	91 dB
Distortion at 80 dBf (WIDE)	
Mono .....	less than 0.009% at 1,000 Hz
Stereo .....	less than 0.02% at 1,000 Hz
Alternate channel selectivity	
WIDE (at 400 kHz) .....	60 dB
NARROW (at 300 kHz).....	75 dB
Stereo separation (WIDE) .....	60 dB at 1,000 Hz
Frequency response.....	20 to 15,000 Hz +0.5 dB, -0.5 dB
Antenna input impedance (A/B) .....	75 ohms unbalanced

### AM Section

Tuning range .....	530 to 1,600 kHz
Usable sensitivity .....	48 dB/m (251 $\mu$ V/m)
Signal to noise ratio .....	50 dB (85 dB/m)
Image response ratio .....	45 dB at 1,000 kHz

### Others

Output voltage .....	0.775 V
Power requirements.....	120/220/240V 50/60 Hz
For U.S.A. and Canada .....	120V (60 Hz)
Power consumption.....	14 Watts
Dimensions .....	430 mm (16-15/16")W 98 mm (3-7/8")H 315 mm (12-7/16")D
Weight.....	5.1 kg (11.2 lbs) net 6.5 kg (14.3 lbs) packed

- \* Design and specifications subject to changes without notice for improvements.
- \* Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors

# 1. PACKING LIST

Parts No.	Stock No.	Description
1	27306700	Vinyl Bag
2	27413700	Styrofoam Packing
#3	27796400	Carton Case
4	27417500	Protector Sheet for Front Panel

# 2. ACCESSORY LIST

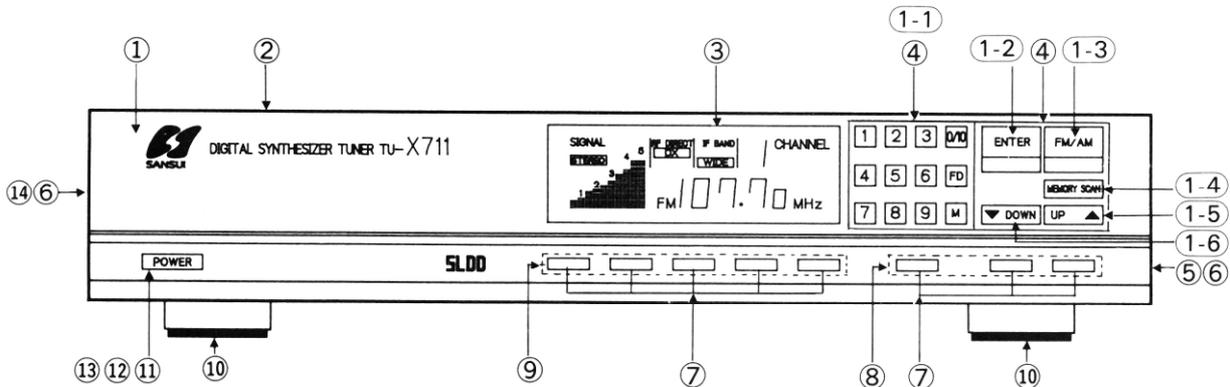
Stock No.	Description
48730700	Antenna Plug (XX·SS)
48489800	Antenna Plug (EU)
46051700	FM Antenna
07272400	AM Loop Antenna
07193400	PJP Cord
# 19056900	Operating Instruction (*E·F·S)
# 19057000	Operating Instruction (*G·I·Sw)

**\*Note**

**E·F·S:** English·French and Spanish Version  
**G·I·Sw:** German·Italian and Swedish Version

# 3. OTHER PARTS

Front View



Parts List <Front View>

Parts No.	Stock No.	Description
# 1	27796100	Front Panel Ass'y (XX·SS)
# 1	27796900	Front Panel Ass'y (EU)
1-1	_____	Knob Ass'y
1-2	_____	ENTER Knob
1-3	_____	FM/AM Knob
1-4	_____	MEMORY SCAN Knob
1-5	_____	UP Knob
1-6	_____	DOWN Knob
# 2	27743300	Bonnet
3	48903800	FL Display Tube
4	48592000	Push SW., 1~0 (preset)· ENTER·FM/AM·MEMORY SCAN·UP·DOWN
# 5	84606200	Dress Side Panel R
6	48719700	Special Screw

Parts No.	Stock No.	Description
7	27388700	Knob, ANTENNA-TUNING· LAST-2·FM MODE·FM NOISE CANCELER·IF DIRECT·REC CAL
8	48839000	Push SW. (3-key), ANTENNA· TUNING·LAST-2
9	48839100	Push SW. (5-key), FM MODE·FM NOISE CANCELER·IF DIRECT REC CAL
# 10	47716610	Leg
# 11	27373200	POWER Knob
△12	46360300	Push SW., POWER
13	47920800	Joint Shaft, POWER Knob
# 14	84606300	Dress Side Panel L



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(SM2-124) Printed in Japan (1989 05T) <Stock No. 36548000>