

Tuner Unit; Adjustment - Sanyo DC-T44 Service Manual

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TUNER UNIT (DC-T44TU)

TUNER INTERNAL ADJUSTMENT

Use a plastic screwdriver for adjustment.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

CLOCK

Use a plastic screwdriver

for adjustment.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

Adjust the clock signal for adjustment.

EP

ITEMS

OUTPUT CONDITION

| ITEMS | OUTPUT CONDITION | | PARTS | STANDARD |
|-------|-------------------|-----------------------------|-------|--------------------|
| | MEASURE | OUTPUT | | |
| CLOCK | Frequency Counter | IC242 Pin 33(H) Earth(E) | CT241 | 1.048576MHz (20°C) |

Short the IC242 pin 40 and D2048 anode at power off.

Temperature drift

10°C : about +1.5Hz, 30°C : about -2.5Hz

PARTS
STANDARDS
MEASURE
OUTPUT

TUNER UNIT (DC-T44TU)

Frequency
IC242 Pin 33(H)
Counter
Earth(E)

CLOCK ADJUSTMENT

Use a plastic screwdriver for adjustment.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

Adjust the IC242 pin 40 and D2048 anode at power off.

Temperature

| ITEMS | OUTPUT CONDITION | | PARTS | STANDARDS |
|-------------------|-------------------|-----------------------------|-------|--------------------|
| | MEASURE | OUTPUT | | |
| Frequency Counter | Frequency Counter | IC242 Pin 33(H) Earth(E) | CT241 | 1.048576MHz (20°C) |

Adjust the IC242 pin 40 and D2048 anode at power off.

Temperature drift

Output the clock signal for adjustment.

10°C : about +1.5Hz, 30°C : about -2.5Hz

Output the clock signal for adjustment delete at power on.

BAND

SG RF L

M BAND

Antenna : 75 ohm Direct, Modulation : 1kHz, Dev. : ±75kHz (mono/stereo) · ±67.5kHz

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | |
|----------------|-------------------|-----------------|-----------------|-------------------|----------------------------------|-------|-----|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 108.0MHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | ----- | Co |
| IF(0V) | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP221(H) *TP222(E) | T2202 | 0.5 |
| VCO | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Frequency Counter | TP231(H) TP232(E) | SVR23 | ** |
| SEPARATION | 98.0MHz (66dB) | FM SG | ANT TERMINAL | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | SVR24 | L-F |
| SD (Auto Stop) | 98.0MHz (26dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP223(H) TP232(E) | SVR21 | 1~ |

VW BAND

Antenna : IRE Lo

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | |
|----------------|-------------------|-----------------|-------------|-------------------|----------------------------------|----------------|-----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 522kHz 1611kHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | L2153 | 1.0 Co |
| TRACKING | 603kHz 1404kHz | AM SG | LOOP ANT | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | L2151 CT251 | 0.5 Ac |
| SD (Auto Stop) | 999kHz (85dB) | AM SG | LOOP ANT | Digital Voltmeter | TP223(H) TP232(E) | SVR22 | 1~ |

W BAND

Antenna : IRE Lo

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | |
|----------|------------------|-----------------|-------------|-------------------|----------------------------------|----------------|-----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 144kHz 290kHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | L2154 | 1.0 Co |
| TRACKING | 162kHz 279kHz | AM SG | LOOP ANT | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | L2152 CT252 | 0.5 Ac |

1
Vco
98.0MHz
ANT
FM SG
Frequency

TUNER UNIT (DC-T44TU)

INTERNAL ADJUSTMENT

Use a plastic screwdriver for adjustment.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

CLOCK

| ITEMS | OUTPUT CONDITION | | PARTS | STANDARDS |
|-------|-------------------|--------------------------|-------|--------------------|
| | MEASURE | OUTPUT | | |
| CLOCK | Frequency Counter | IC242 Pin 33(H) Earth(E) | CT241 | 1.048576MHz (20°C) |

Short the IC242 pin 40 and D2048 anode at power off.

Temperature drift

Output the clock signal for adjustment.

10°C : about +1.5Hz, 30°C : about -2.5Hz

Clock signal for adjustment delete at power on.

FM BAND

Antenna : 75 ohm Direct, Modulation : 1kHz, Dev. : ±75kHz (mono/stereo) · ±67.5

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | STANDARDS |
|----------------|------------------|-----------------|--------------|-------------------|----------------------------------|-------|-----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 108.0MHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | ----- | Co |
| IF(0V) | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP221(H) TP222(E) | T2202 | 0.5 |
| VCO | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Frequency Counter | TP231(H) TP232(E) | SVR23 | ## |
| SEPARATION | 98.0MHz (66dB) | FM SG | ANT TERMINAL | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | SVR24 | L-F |
| SD (Auto Stop) | 98.0MHz (26dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP223(H) TP222(E) | SVR21 | 1~ |

Adjust in the modulation

TP222 is to earth point. TP222 is to earth point. TP222 is to earth point. TP222 is to earth point.

Adjust the stereo indicator light on.

Antenna : IRE Lo

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | STANDARDS |
|----------------|-------------------|-----------------|----------|-------------------|----------------------------------|----------------|-----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 522kHz 1611kHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | L2153 ----- | 1.0 Co |
| TRACKING | 603kHz 1404kHz | AM SG | LOOP ANT | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | L2151 CT251 | 0.5 Ac |
| SD (Auto Stop) | 999kHz (85dB) | AM SG | LOOP ANT | Digital Voltmeter | TP223(H) TP232(E) | SVR22 | 1~ |

AM BAND

Antenna : IRE Lo

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | STANDARDS |
|----------|------------------|-----------------|----------|-------------------|----------------------------------|----------------|-----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 144kHz 290kHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | L2154 ----- | 1.0 Co |
| TRACKING | 162kHz 279kHz | AM SG | LOOP ANT | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | L2152 CT252 | 0.5 Ac |

1.2 f 0.05V

1611k Hz

TUNER UNIT (DC-T44TU)

TUNER ADJUSTMENT

Use a plastic screwdriver for adjustment.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

CLOCK

| ITEMS | OUTPUT CONDITION | | PARTS | STANDARD |
|-------|-------------------|--------------------------|-------|--------------------|
| | MEASURE | OUTPUT | | |
| CLOCK | Frequency Counter | IC242 Pin 33(H) Earth(E) | CT241 | 1.048576MHz (20°C) |

Short the IC242 pin 40 and D2048 anode at power off. Temperature drift
 10°C : about +1.5Hz, 30°C : about -2.5Hz
 Output the clock signal for adjustment.
 Clock signal for adjustment delete at power on.

FM BAND

Antenna : 75 ohm Direct, Modulation : 1kHz, Dev. : ±75kHz (mono/stereo) · ±67.5

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | STANDARD |
|----------------|------------------|-----------------|--------------|-------------------|----------------------------------|-------|----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 108.0MHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | ----- | Co |
| IF(0V) | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP221(H) TP222(E) | T2202 | 05 |
| VCO | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Frequency Counter | TP231(H) TP232(E) | SVR23 | ## |
| SEPARATION | 98.0MHz (66dB) | FM SG | ANT TERMINAL | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | SVR24 | L-F |
| SD (Auto Stop) | 98.0MHz (26dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP223(H) TP222(E) | SVR21 | 1~ |

VW BAND

Antenna : IRE Lo

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | STANDARD |
|----------------|-------------------|-----------------|----------|-------------------|----------------------------------|----------------|----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 522kHz 1611kHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | ----- | Co |
| TRACKING | 603kHz 1404kHz | AM SG | LOOP ANT | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | L2151 CT251 | On Ac |
| SD (Auto Stop) | 999kHz (85dB) | AM SG | LOOP ANT | Digital Voltmeter | TP223(H) TP232(E) | SVR22 | 1~ |

VW BAND

Antenna : IRE Lo

| ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | STANDARD |
|----------|------------------|-----------------|----------|-------------------|----------------------------------|----------------|----------|
| | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| COVER | 144kHz 290kHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | ----- | Co |
| TRACKING | 162kHz 279kHz | AM SG | LOOP ANT | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | L2152 CT252 | On Ac |

~ 8.0V (about 7.2V)

162kHz

LOOP

VTVM

TP233(L)

2

TRACKING

TP234(R)

SG

L2152

Output

TUNER UNIT (DC-T44TU)

TUNER ADJUSTMENT

Use a plastic screwdriver for adjustment.

Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

279kHz

CLOCK

TP234(R)

Adjust

to near

Oscilloscope

TP235(E)

CT252

A

the

effective

Output

CLOCK

PARTS

LOCATION

FM

ANT

SG RF L

f--

Antenna : 75 ohm Direct, Modulation : 1kHz, Dev. : ± 75kHz (mono / stereo) · ± 67.5

| ITEM | ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | |
|------|-------------------|-------------------|-----------------|-----------------|----------------------|----------------------------------|-------|-----|
| | | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| 1 | COVER | 108.0MHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | ----- | Co |
| 2 | IF(0V) | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP221(H) *TP222(E) | T2202 | 0.5 |
| 3 | VCO | 98.0MHz (66dB) | FM SG | ANT TERMINAL | Frequency Counter | TP231(H) TP232(E) | SVR23 | ** |
| 4 | SEPARATION | 98.0MHz (66dB) | FM SG | ANT TERMINAL | VTVM Oscilloscope | TP233(L) TP234(R) TP235(E) | SVR24 | L-F |
| 5 | SD (Auto Stop) | 98.0MHz (26dB) | FM SG | ANT TERMINAL | Digital Voltmeter | TP223(H) TP222(E) | SVR21 | 1~ |

VW BAND

L, LW

Antenna : IRE Lo

| ITEM | ITEMS | TUNING FREQUENCY | INPUT CONDITION | | OUTPUT CONDITION | | PARTS | |
|------|-------|-------------------|-----------------|-------|-------------------|----------------------|----------------|-----------|
| | | | MEASURE | INPUT | MEASURE | OUTPUT | | |
| 3 | COVER | 522kHz 1611kHz | ----- | ----- | Digital Voltmeter | TP241(H) TP232(E) | L2153 ----- | 1.0 Co |

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