

Masuda



10-TRANSISTOR

5-BAND <L. W. MW. SW₁. SW₂. SW₃>

PORTABLE RADIO

MODEL 10NT-504



NANAO RADIO CO., LTD.

Mamota

10 TRANSISTOR 5 BAND PORTABLE RADIO MODEL 10NT-504

* GENERAL DESCRIPTION

This radio is a 5-Band Portable Radio. Receiver using 10 transistors and 2 germanium diodes. The tuning range covers long-wave (LW), standard broadcast (MW) and full short-wave band (SW 1, SW 2, SW 3), up to 28 mc. Tuning control includes coarse tuning, and D.V.S. and is performed easily together with tuning-indicator even at 11 meter band. And also regulated power supply for local oscillator serves as stable reception. Output power is ample enough and excellent tone quality with tone control knob are sufficient even as for table radio. 2 dial-lights are provided which are lighted at will by push-button switch for longer wave (LW, MW, SW 1), a ferrite-rod antenna, and for shorter wave (SW 2, SW 3) a telescopic antenna are used effectively. A pair of earphone jacks and a phono-player pick-up jack are furnished for convenience.

* OPERATING INSTRUCTIONS

- **Power-Switch and Volume Control:**
The control knob is located on the cabinet front right-hand side. To SWITCH-ON turn the knob right-hand direction, a faint reaction on fingers may be resulted at switch-on; and VOLUME becomes louder in the same direction of the knob.
- **Band Selection:**
Band selector knob is located on the cabinet front, lower right-hand side.
- **Tuning Control:**
Coarse tuning control knob is located on the cabinet front at mid-right, and next, adjust knob precisely referring to RADICATOR-tuning indicator. The pointer of the RADICATOR may move right wards when tuned-in some wave. For stronger signal, the pointer may indicate extreme right.
- **D.V.S. = DOUBLE VERNIER SYSTEM**
DVS is the device that make it possible to select the desired station in five times precise than the case of using usual tuning knob. This means five times enlargement of dial scale than usual, and this fine band radio actually words as 25 band (5 band \times 5) radio.
- **Antenna:**
To tune-in short-wave, pull-out TELESCOPIC ANTENNA located at the cabinet top.
- **Dial-Lighting:**
To light dial lighting, push DIAL LIGHT switch located on the cabinet front.
- **Tone Control:**
TONE CONTROL switch is located on the cabinet left side. For high tone, slide the knob to the upward and for low tone, to the down ward.
- **Earphone:**
A pair of earphone jack are located on the cabinet left side for private listening use. The upper jack is provided with a switch to change automatically the circuit from speaker to earphone when earphon plug is put-in.
- **Phono-player Jack:**
Phono-player Pick up jack is located on the cabinet left side. The receiver circuit is-changed from radio to pick-up when pick-up plug put-in and then the receiver may be used as phono-amplifier.

● Battery Indicator:

RADICATOR may also indicate battery condition. At no signal, if RADICATOR indication is on the RED mark at switch-on, then the battery may be wearied-off and need renewal. For unexhausted battery, the pointer may deflect extreme left.

● Battery Renewal:

Open battery case located at the cabinet back, slightly lifting-up lower end of the slide lid with finger at the pit of the cabinet bottom and pull down carefully. Then take out batteries pulling with brack braid. Replace used batteries with new "D" cells. Be sure battery polarity correct referring to as indicated on the battery holder, otherwise circuit components may be damaged.

* SPECIFICATIONS

Tuning Range:
LW 145~375 kc
MW 540~1600 kc
SW 1 1.8~5.2 mc
SW 2 5.8~15.8 mc
SW 3 17~28 mc

Intermediate Frequency: 455 kc

Transistor Complement:

(1) Mixer
(2) Oscillator
(3) 1 st. I.F. Amplifier
(4) 2nd. I.F. Amplifier
(5) 1 st. A.F. Amplifier
(6) 2nd. A.F. Amplifier
(7) Driver
(8) Output
(9) Regulator
(10) Germanium Diode:

(1) A.G.C.
(2) 2ud Det.

Power Supply:

Voltage: 6V
Batteries: UM-1 (4 reg'd)
Drawn No. signal: 23 mA
Loud speaker: 13 cm P.M.
Size and Type: 13 cm P.M.
Voice Coil Impedance: 35

Power Output:

Undistorted: 450 mW
Maximum: 650 mW

Tuning Drive Ratio: 12:1

Double Vernier: 70:1

Antenna:

Built-in Ferrite-rod Antenna
Built-in Telescopic Antenna
80 cm long

Dimensions (Overall, Approximately):
225 \times 250 \times 95mm

Weight (Approximately, including batteries): 2.8 kg

375-540
1.6-1.8
5.2-5.8
5.8-17