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1. Major features

* Continuous coverage from 25 MHz to 550 MHz and from 800 MHz to
1300 MHz .

${ }_{*}^{\text {mode, search, etc. }}$ A totally new keyboard with push buttons making frequency

sensitivity, selectivity, spurious rejection and two-signal
characteristics.
* Wide variety of receiving modes
Wide FM (TV broadcast, FM broadcast)
Narrow FM (Business
AM ( VHF/UHF Air Band, CB)
$\star$ State of the art design by use of latest electronic
components and circuitry.
$\star$ G Goanywhere versatility thanks to light compact desi

* Mrant panel frequency control by shaft encoder in addition to
UP/DOWN buttons.
UP/DOWN buttons.
Socket for optional RS232 interface board on rear panel.

> You are the proud owner of our latest product. Please read this
> operating manual carefully before placing your receiver in service.

## 1 Major features <br> 2 Operating precautions <br> 3 Caution for proper handling of the set. <br> 4 Control <br> 5 Rear Panel Control

6 Operation

## 7 Specifications

8 Optional accessories
9 Trouble shooting
3. Caution for proper handling of the set.
Avoid any place in the direct sun or near to heating 60 dearees celsius
 all windows closed if in the direct sun, and this may cause
 are expected.
are expected.
Clean the set with soft cloth. Never use any chemicals to clei
the set such as thinner and benzene which may damage the cabint
surface.
ued də eəp anot steubts yeəm do 'əDuefstp e uoxi sleubis d

 lines or buildings.

6. Operation

1. Connect 12 V dc power supply correctly.
2. Squelch is on. Turn on the power switch and rotate to 1 power switchition.
3. The unit will automatically start scanning between CH0l a
are stored at factory for test.)
position (no indication on LCD display). If any of those are turn it to OFF.
Squelch setting for correct operation.
The squelch control can be considered as setting the level of
signal which will stop the scanning procestílockwise positior
transmission to be heard. In the fully anticlockwise positior
the squelch is open, and no scanning will take place. Startir
the squelch is open, and the anticlockwise setting, rotate the squelch control
clockwise until background noise from the speaker is cut off.
This is the most sensitive setting for the squelch contronce $t$,
at this setting, stop the scanning, so it is advisable to advance the squelch
 will be easily found by experience. desired frequencies will follow below.
4. Rear Panel Control
ANT BNC type antenna connector
Serial number plate
DC 12 V 12V dc input jack
ATT Attenuator ( -10 dB )
EXT SP External speaker jack
RMT $\quad$ LED indicator for remote control operation
REMOTE Socket for RS232

Selection of receiving frequency
If you want to listen to an FM broadcast which is on 95.75 M depress the buttons in the following sequence;

| B. | 9 | 75 |
| :--- | :--- | :--- | :--- | :--- |
| C. | WFM |  |
| ENTER |  |  |

How to recall memory channel example channel 15, depress keys as follows;
A. MANUAL
A. 15 MANUAL
Caution enter 00 and any figure between 21 and 99 in the abov
process. Built-in computer will transfer the frequency once
stored in a memory channel to channel 20 to be retained if an of those figures has been entered by mistake.
Memory back-up A specially made capacitor is employed in the set to preserv frequencies in the memory bank. There is no need to replac tye please, however, note that frequency in memory channel will vanish if power is disconnected for approx. more than one wee owing to discharging of the capacitor.
A. MANUAL
B. LOWER ENTER
C. 360 . 6 ENTER
D. UPPER ENTER
E. 400 . 0 ENTER
F. NFM ENTER
G. 12.5 kHz ENTER
H. SEARCH
Direction of search can be determined by depressing either UP
DOWN key. To change search speed, depress SPEED key. Two
selectable search speeds are provided. Make sure that HIGHEF
frequency entered is always higher than LOWER frequency enter
otherwise, search does not take place.
LOCK OUT program any combination of memory channels you want
scan by using lock out key. For example, if you want to delet
A. MANUAL
C. LOCK OUT
LOCK OUT WIIl appear on LCDK
LOCK OUT will disappear on LCD display. If you delete all 20 channels from scan operation, scan does not function PASS on LCD display.


Scanning and 800 and 1300 MHz can
Scanning
Any frequencies between 25 MHz and stored in 20 memory channels with designated mode. You can vatch frequencies in the memory channels simply SCAN key allow
start scanning. start scanning.
Depress MANUAL
Depress MANUAL key to stop scanning.
You can advance memory channel manually by depressing MANUAL rey. Please refer to LOCK OUT for programmed scan. A "beep" will with high tone and wrong entry with low tone.

## SEARCH



Programmed search
search between 360 MHz and 400 MHz in 12.5 kHz step with NFM, Co search between 360
Time display and how to set the clock

$$
\begin{aligned}
& \text { A } \\
& \begin{array}{lllll}
24 \text {-Hour } & \text { clock is a built-in feature of the AR-2002. } \\
10 & 15 & 20 & \text { represents } 10 \mathrm{~h} 15 \mathrm{~m} 20 \mathrm{sec} A M \\
18 & 45 & 50 & \text { represents } 6 \mathrm{~h} 45 \mathrm{~m} 50 \mathrm{sec} \text { PM }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \text { To displa } \\
& \text { A. MANUAL } \\
& \text { B CLOCK }
\end{aligned}
$$

o display time on LCD, depress:

$$
\begin{aligned}
& \text { B. CLOCK } \\
& \text { Time will }
\end{aligned}
$$

Time will not be displayed if PRIORITY is engaged. Disengage PRIORITY in this case.
To release time display, depress any key from the followin: ENTER resume frequency displaying
SEARCH resume searching
To enter time, for example
following sequence; following sequence;
A. MANUAL CLKSET ENTER
B. 0715120
50 s PM
stored will be retained by memory back-up system, approx. one week even after the power is disconnected. The
does not display the time until the power is reconnected.
9. Trouble shooting
If your receiver does not function correctly, please check the
 it from for repair;

* Power plug is not firmly connected.
* If AC adapter is used, check plug is firmly connected to

1. Receiver not working at all i.e. no power
power socket and lead to receiver is $f$
$*$ If used on 12 V dc, check polarity.
2. Receiver works, but no audio output

* Volume control is turned right down.
* Earphone plug is inserted in the external
* Depress MANUAL key, and try to enter various inputs.
* Turn squelch knob fully clockwise if scan and search do not
function.


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8. Optional accessories

[^0]
[^0]:    DA 300
    
    Mobile mount bracket unit RC PACK
    RS232 Remote control unit

