



PATOKA VALLEY

MATEUR RADIO CLUB



The PVARC meeting will
begin at 6:30 PM



PATOKA VALLEY

MATEUR RADIO CLUB



Introducing the NEW Yaesu
FTM-500DR

Agenda

- **Overview of the FTM-500DR**
- **New Features Available**
- **How to Operate the Transceiver**
- **The Advantages Over Other Models**

Why was FTM-500DR Introduced

FTM-400DR

3.5"
Display



**Introduced 2013
Discontinued 2022**

*First fully compatible System
Fusion Mobile
(\$699)*

FTM-500DR

2.4"
Display



**Introduced 2023
Replaces FTM-400DR**

*New Flagship Model
\$649.95*

The New Flagship Mobile
FTM-500D

The BIGHEAD



◀ Actual Size ▶

2M/440 MHz

*Dual-band Mobile
with Innovative Smart Operating System*



General Specifications

- 144MHz, 430MHz C4FM Digital / FM / AM (Air Band)
- Continuous receive 108 MHz to 999 MHz
- RF Power Output: 50W, 25W, 5W
- True Dual Band (Dual Receive) Operation
- GPS & APRS
- C4FM/C4FM Digital D-D Dual Receive
- AMS (Automatic Mode Select)
- Demountable Front Panel Controller

Acoustic Enhanced Speaker System (AESS)

3 Watt Internal Speaker



2.4 Inch Touch Screen

6 Watt Front Speaker

- Front speaker ensures clear & powerful audio out
- Phase, balance, tone adjustable
- Clear high-fidelity audio
- 9 watts total power

Angle variable Swing-head ensures Excellent visibility

The angle of the control-head can be adjusted upward by 20 degrees with respect to the main-unit, visibility of the display is ensured, even when installed under the dashboard of the vehicle. Additionally, by attaching the optional Swing-head kit (SJKM-500) to the control-head, flexible angle adjustment is possible. Even when the installation space is limited, operation can be from the best angle.

***Optional control-head extension cable "CT-132" is not required.**



Swing-head kit: SJKM-500 (Optional) Installation Image

Options

*Optional extension cable "CT-132" is not required.

SJMK-500
Swing-head kit



MMB-103
Dash Mount Bracket



CT-132
Control-head
Extension Cable 20ft (6m)



FP-1030A*2
AC Power Supply (25A)



FP-1023*3
AC Power Supply (23A)



SSM-85D*4
DTMF Microphone



MEK-5
Mic Extension Kit 10ft (3m)



SCU-58
WIRES-X Connection Cable kit
*inc. PC connection Cable and Audio Cable



FVS-2
Voice Guide Unit



MH-42c6J
Microphone



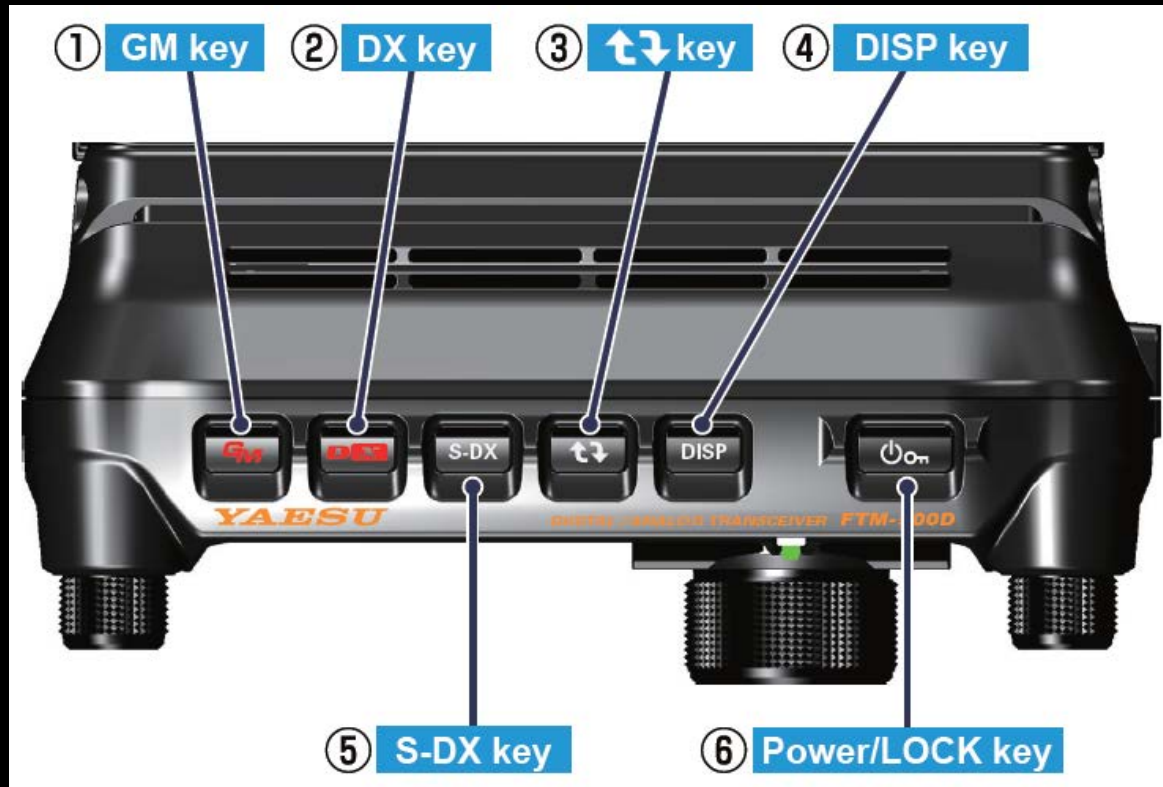
SSM-BT10
Bluetooth® Headset



MLS-100
High-Power External Speaker



Keys & Knobs



1. GM (Group Monitor) / DGID

2. Mode Changes / WIRES-X

3. Main Band / Sub Band

4. Dual Receive / Scope

5. Super DX (Sensitivity)

6. Power / Lock

Top Buttons





- | | |
|-------------------|--------------------------------|
| 7. Main Vol / SQL | 12. PMG (Primary Memory Group) |
| 8. Sub Vol / SQL | 13. VFO/Memory/Write |
| 9. Main VFO | 14. Band Change |
| 10. Function Menu | 15. Back Key |
| 11. Sub VFO | |

Front Buttons



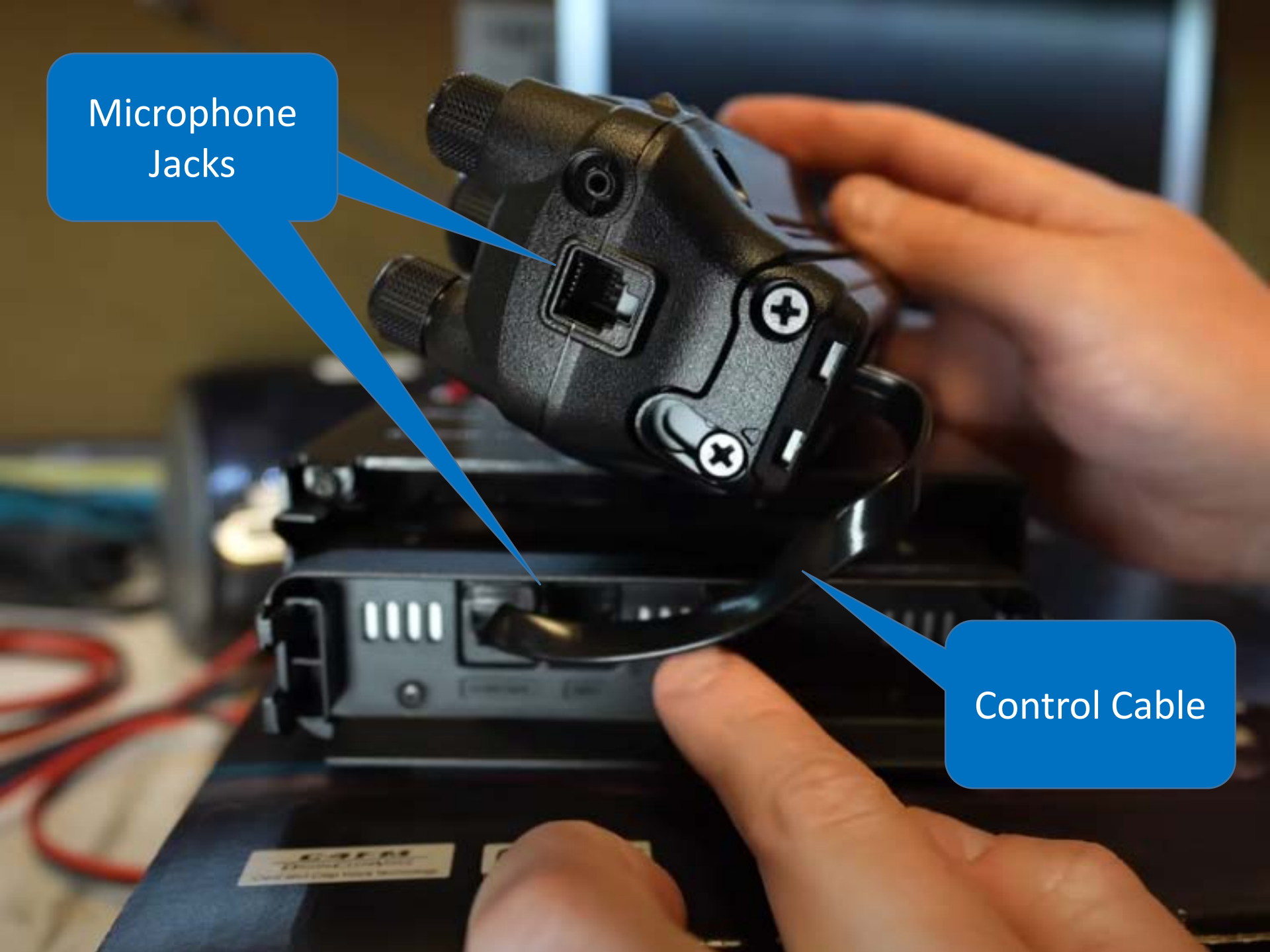
Plugs & Ports

Head Detach
Button

Micro SD
Memory Card

Microphone
Jacks

Control Cable



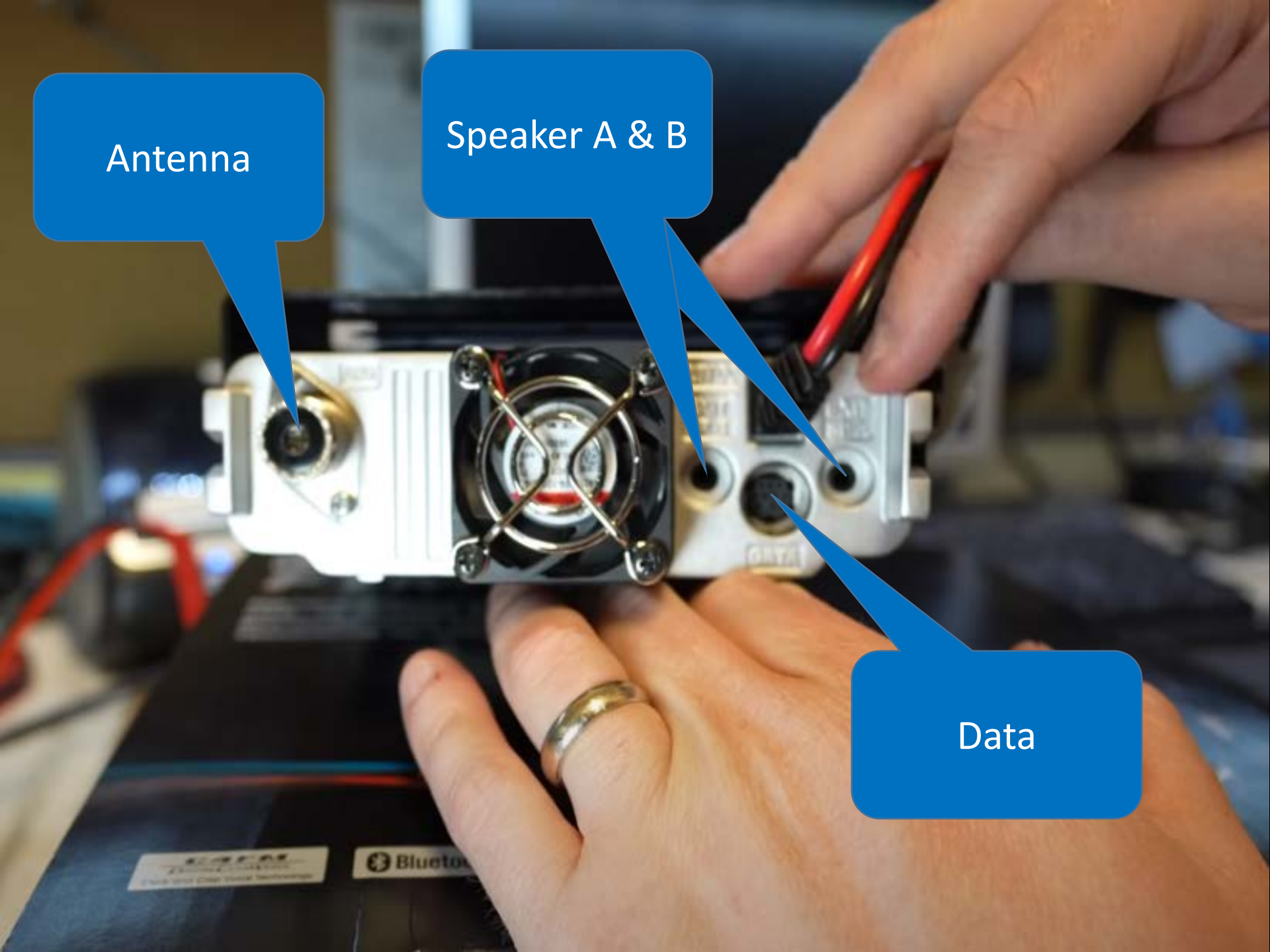
Adjustable
Control Head
Tilt Screw



Antenna

Speaker A & B

Data





Same mounting
bracket as FTM-300

New Functions

One-touch screen switching keys



Press: Swaps the main and sub band.
Press and hold: Copy the frequency and data values from main to sub band.

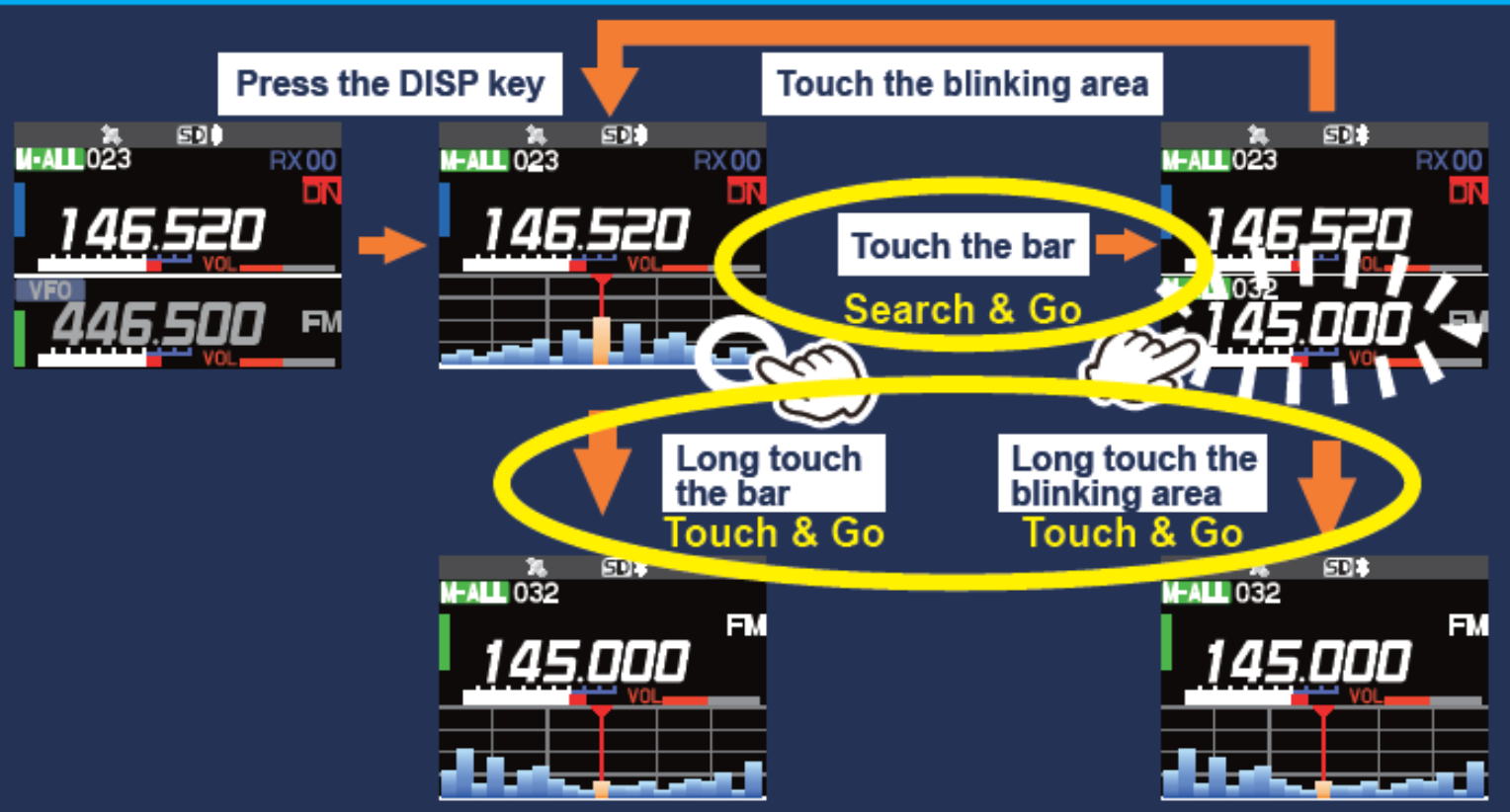


Press: Switch between Dual receive and Scope operation.

Touch & Go and Search & Go operations on the scope screen

Search & Go → Touch on the scope to access SUB VFO Dual Receive

Touch & Go → Long touch on the scope to rewrite the MAIN VFO



Touch & Go



Easy Channel checking with PMG function

Register frequencies to the PMG (Up to 5 channels)

➔ **Press and hold the PMG key**

Once all five memories have data on them, previous data will be over-written on a first-in, first-out basis.

Unsubscribe a channel

➔ **Select the channel then press and hold the BACK key**

Recall the PMG screen ➔ **Press the PMG key**

The display turns orange and a PMG scan starts on the subband.

The diagram illustrates the PMG function workflow through three sequential screenshots of a radio's display, connected by orange arrows. Each screenshot shows a bar graph with five channels (P1-P5) and a frequency display.

- First Screenshot:** Shows PMG P2 selected. The frequency is 146.520. A hand icon points to the bar graph.
- Second Screenshot:** Shows PMG P5 selected. The frequency is 145.000. A hand icon points to the bar graph. A text box above it says: "Touch the screen or when a signal disappears, returns to scanning." A text box below it says: "Touch the bar graph, or when a signal is received, it will automatically Dual receive."
- Third Screenshot:** Shows PMG P5 selected. The frequency is 145.000. A text box below it says: "Touch and hold the blinking area to switch to channel operation."

Primary Memory Group (PMG)



MFJ-849
Freq: 1.6-525 MHz
PWR: 200 Watt

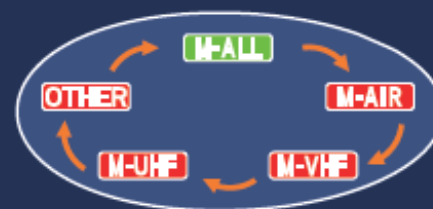
Grouping memories in the same frequency band by MAG (Memory Auto Grouping)



Memory Mode



Press the BAND key



Switch Group

Example:
When the VHF
group is selected

Memory Channel List

MEMORY CH LIST		
001	432.100	UHF1
002	146.520	VHF1
003	446.500	UHF2
004	144.640	VHF2
005	145.000	VHF3
006	146.620	VHF4

VHF

VHF

VHF

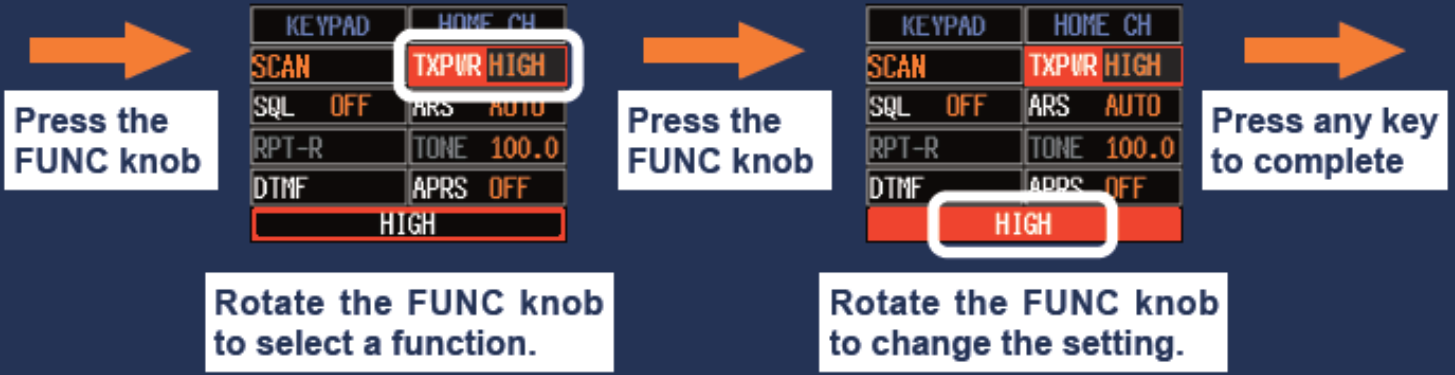


e.g., VHF Band Group selected
from Memory Channel List

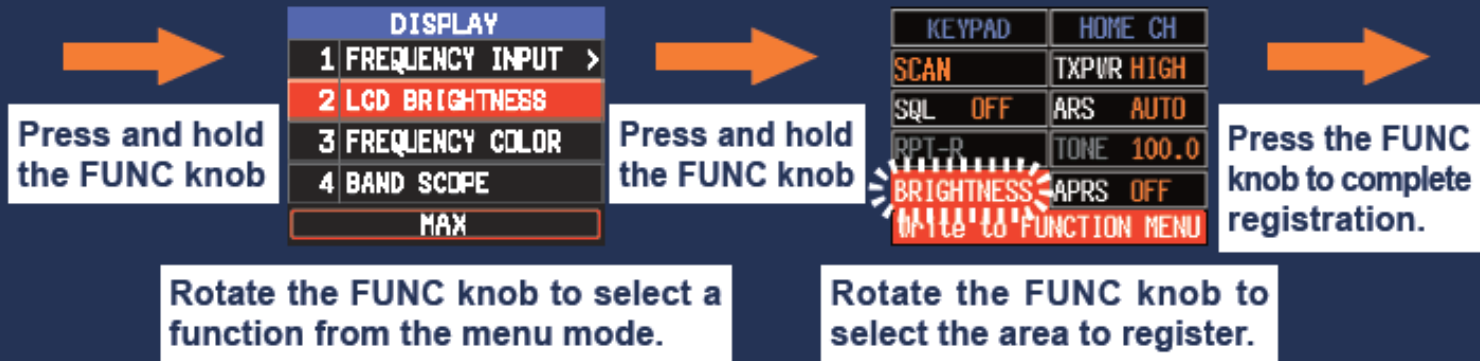
M-VHF		
002	146.520	VHF1
004	144.640	VHF2
005	145.000	VHF3
006	146.620	VHF4

CFL (Customized Function List)

Register up to 8 frequently used functions for easy access



Add function to CFL



Customizing Favorites List



Hidden Feature

Cross Band Repeat

Push the DX key & hold down the function button while turning power on



(Actual Size)

Comparisons

FTM-500DR

vs

FTM-300DR



**FTM-500DR Has
but FTM-300DR
Does NOT**

1. Audio Enhanced Sound System (AESS)
2. Microphone jack in both main body & control head
3. Angle control head mount
4. Touch Screen
5. Primary Memory Group (PMG)
6. Customizable favorites list
7. Touch & Go and Search & Go (Band Scope)

FTM-500DR

vs

FTM-400DR



**FTM-500DR Has
but FTM-400DR
Does NOT**

1. Fusion on A & B
2. Audio Enhanced Sound System (AESS)
3. Microphone jack on main body & control head
4. Angle control head
5. Primary Memory Group (PMG)
6. Customizable favorites list
7. Touch & Go and Search & Go (Band Scope)
8. Blue Tooth built in

**Entire Line of Current
Yaesu System Fusion Radios**

BEFORE CONCLUDING



Thank You