



Get Going Fast With D-STAR

JOHN DAVIS
WB4QDX

D-STAR in a Nutshell

- D-STAR is one of several digital voice modes used in Amateur Radio
- D-STAR is an open standard
- D-STAR is specifically designed for Amateur Radio (callsigns vs radio IDs)
- D-STAR has capability for voice and data
- Repeaters can be linked together via Internet through reflectors



Getting the Most from D-STAR

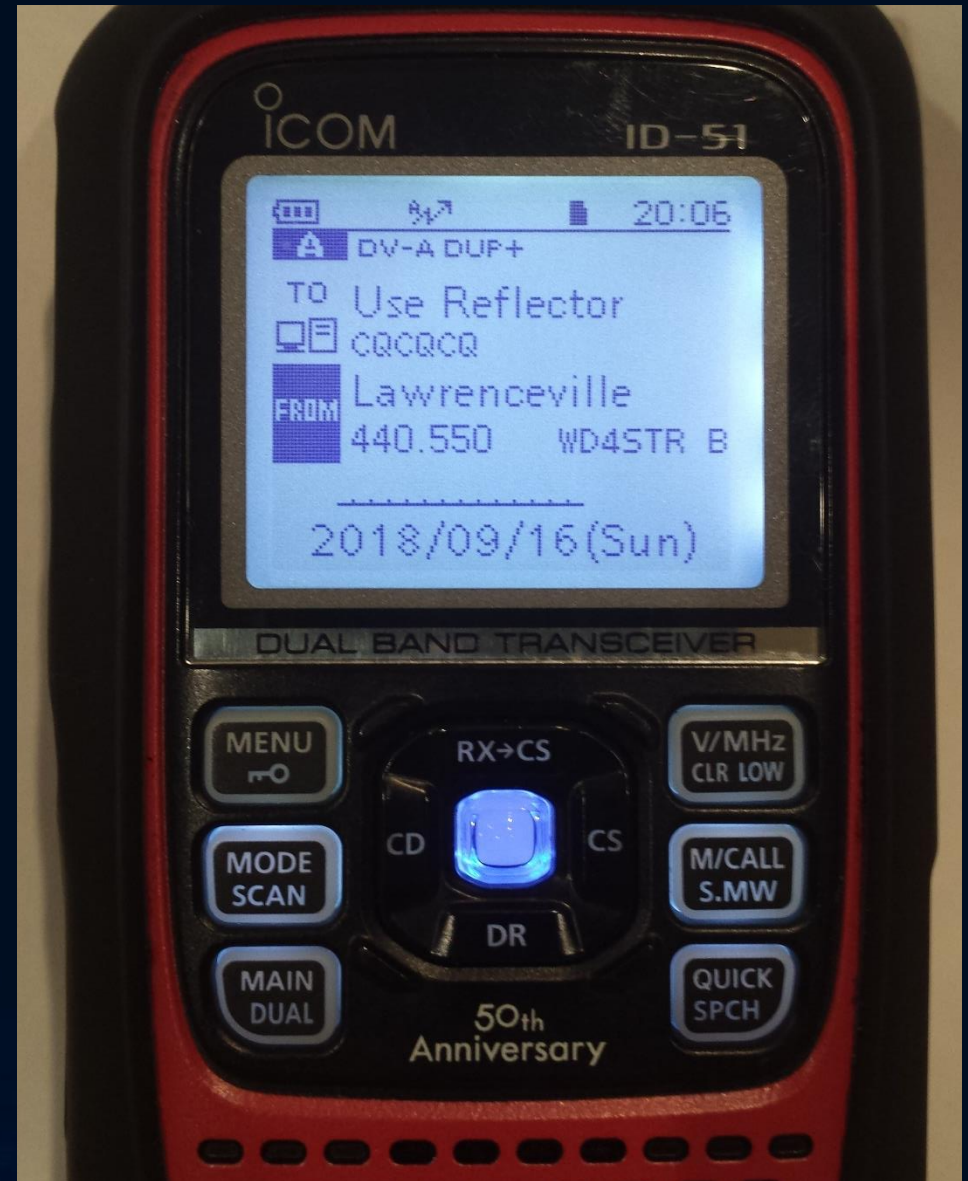
Tonight's Focus

- Connecting to repeaters and reflectors using DR Mode
 - Using TO – FROM in DR Mode
 - Finding nearest repeater
- Simple updating Repeater Lists in memory and SD Card



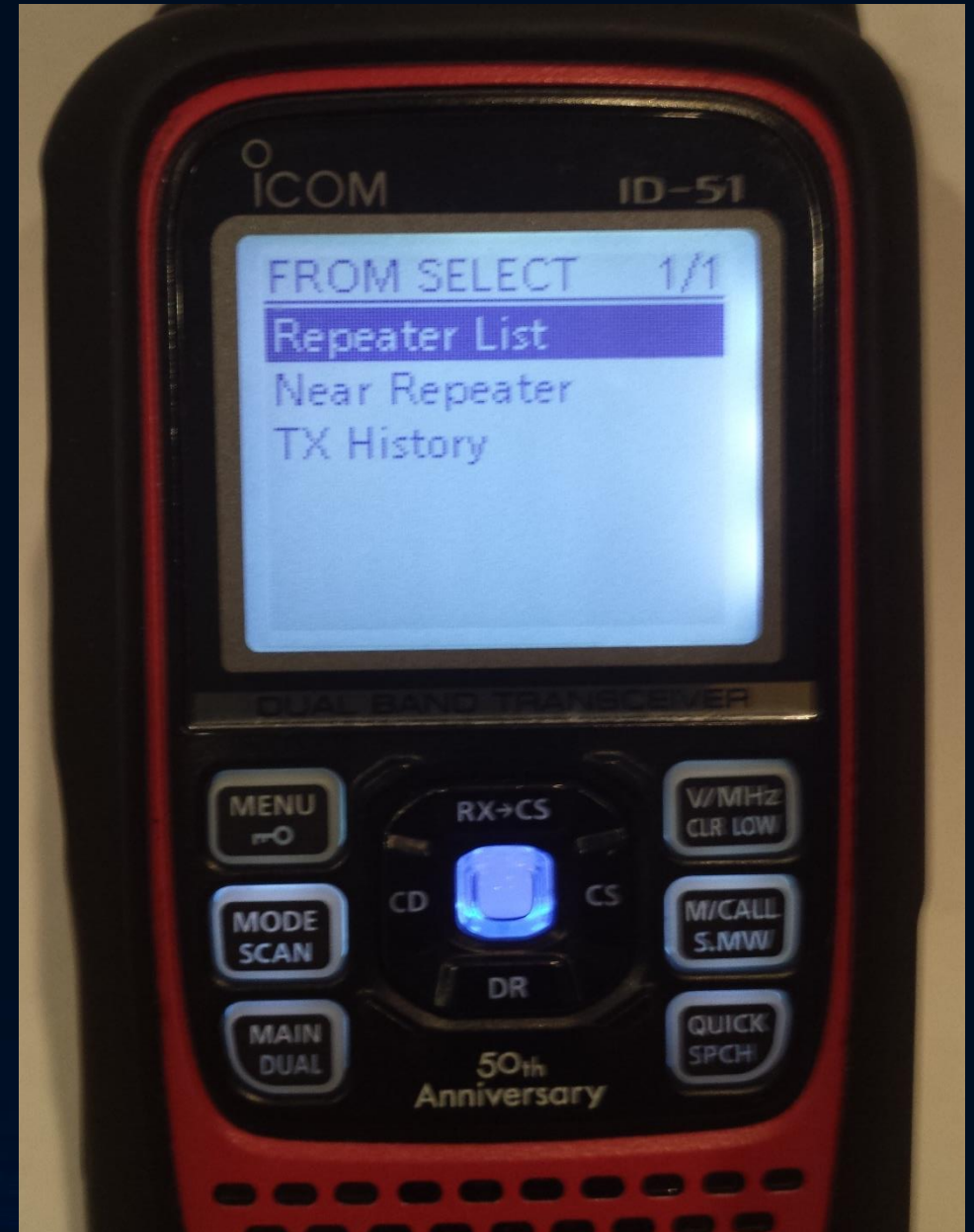
Using DR Mode

- **DR Mode** (Digital Repeater Mode) allows quick selection of repeaters and using linking commands
- Uses stored database of repeaters in memory and on SD card
- Press and hold blue center button to activate DR Mode
- **FROM** – Sets local repeater you are using
- **TO** – Determines what you want to do with your signal



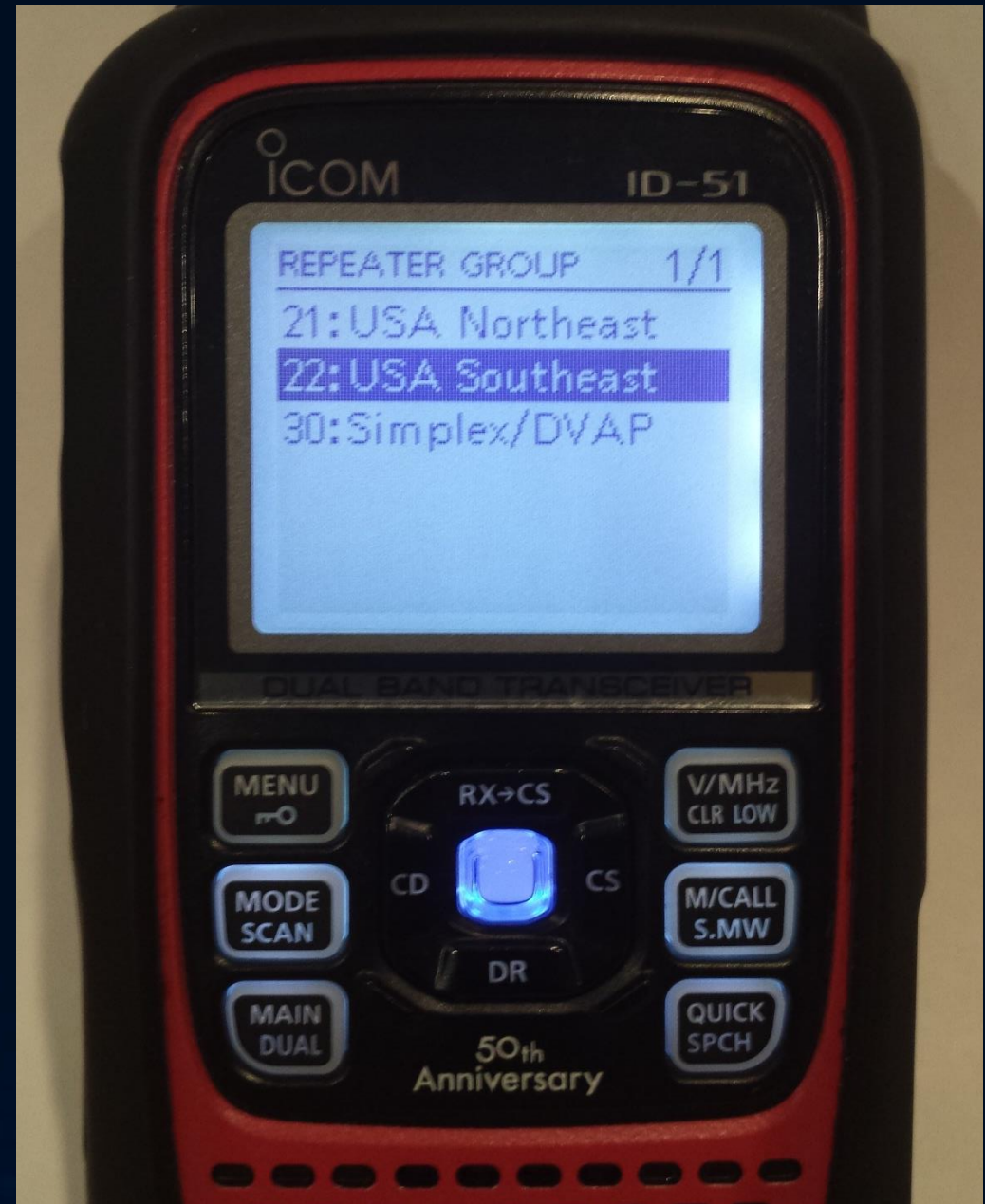
Selecting the Repeater (FROM)

- Highlight FROM and press blue center button
- **Near Repeater** – Select nearest repeater (DV or FM) based on current GPS location



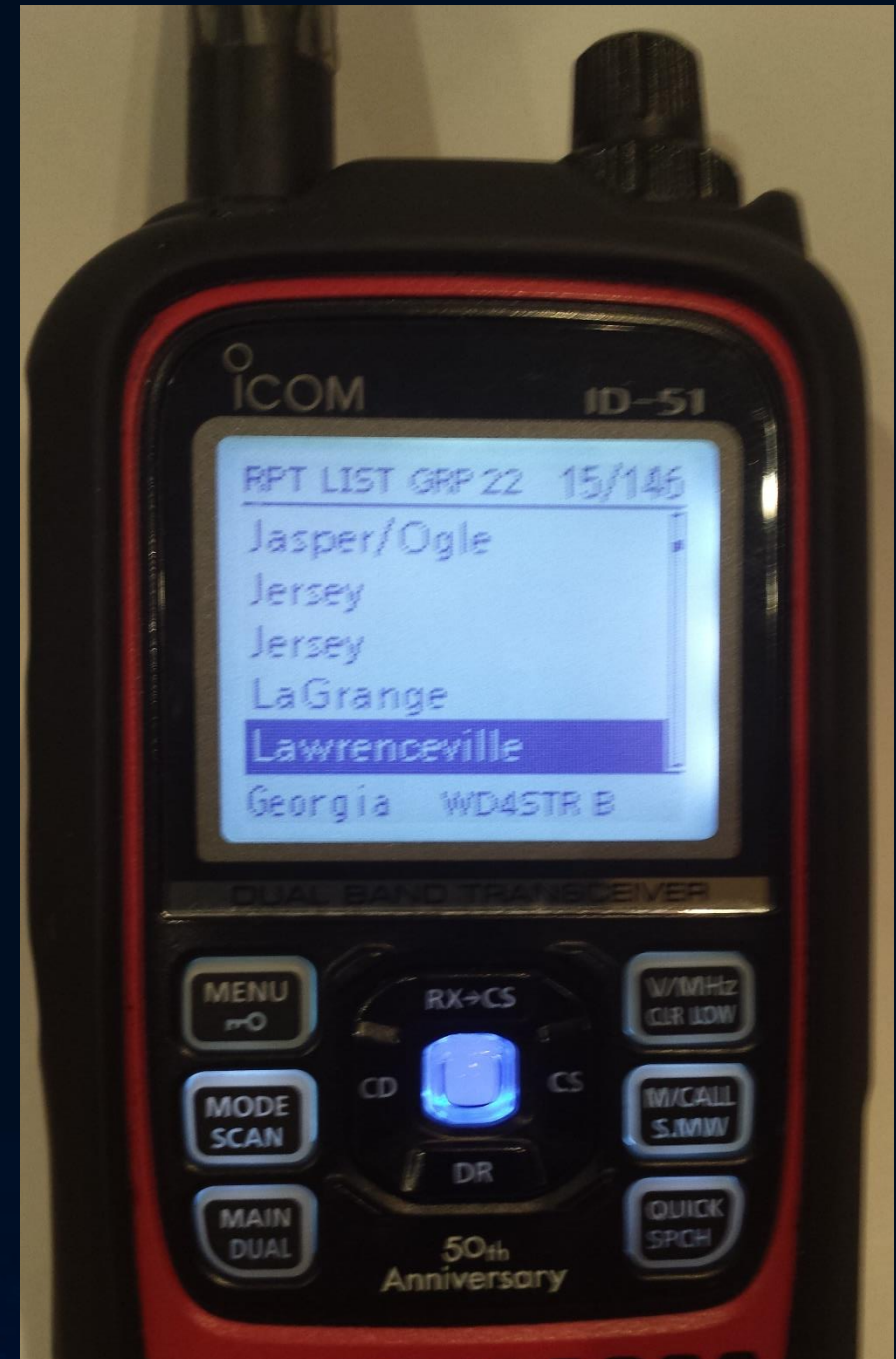
Using Repeater List

- Press blue center button
- Select region of country (*your list may vary with updated programming*)



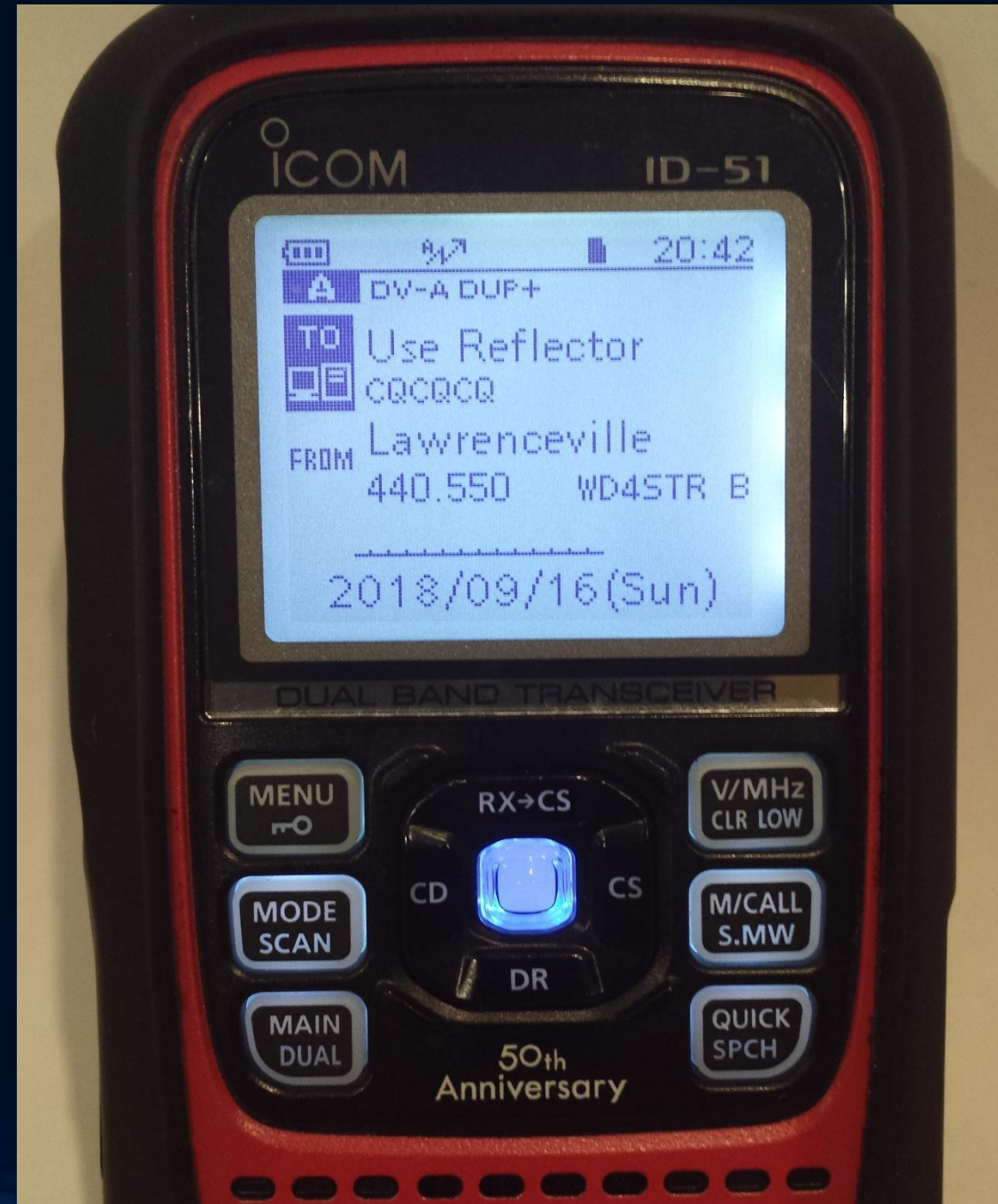
Select Repeater

- Scroll through list using top channel knob
- List sorted first by state then city
- Shows callsign and module of highlighted repeater
- Select highlighted repeater with blue center button



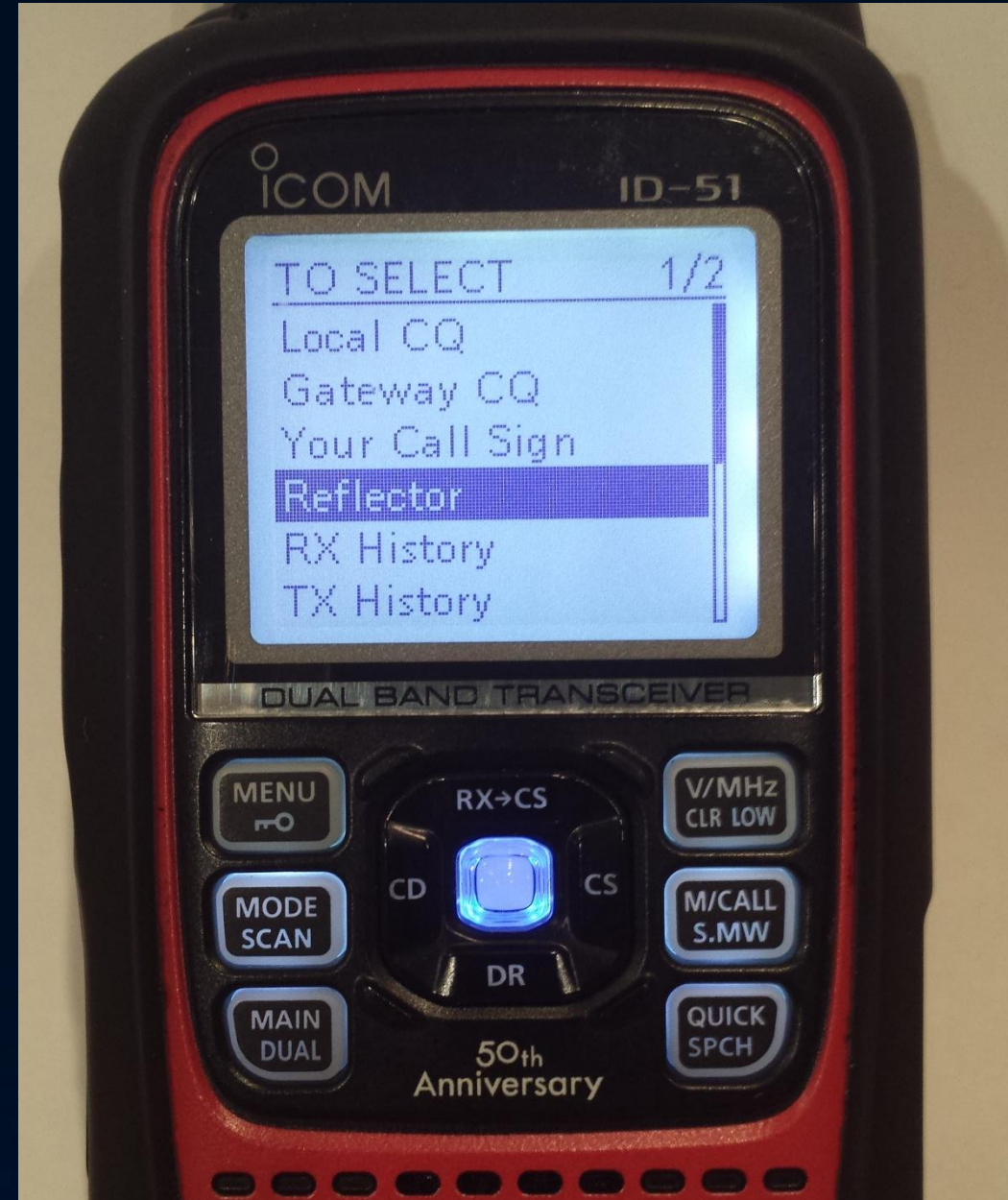
What to Do (TO)

- Press top above blue button (RX+CS) to highlight TO



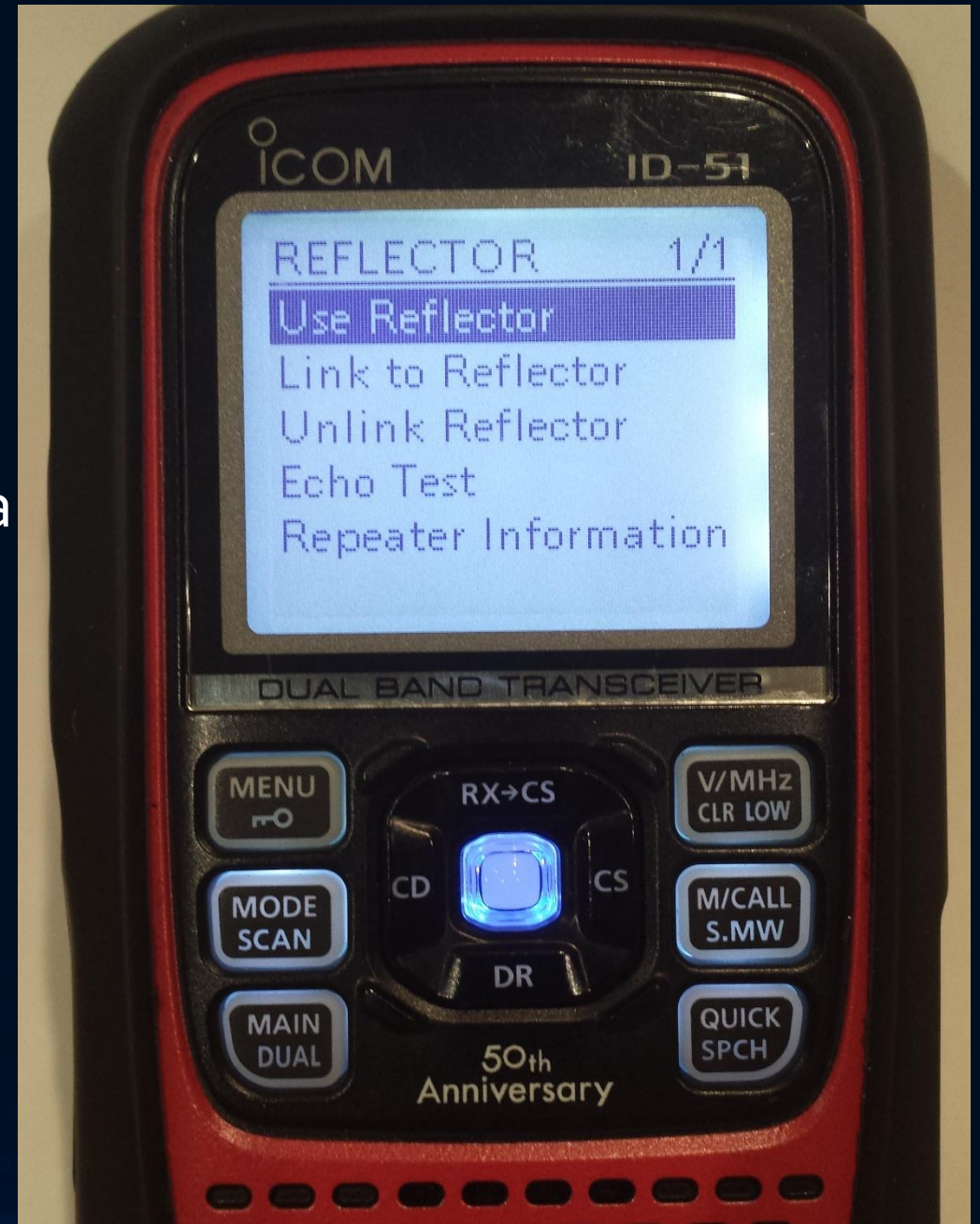
What to Do (TO)

- Most often, select Reflector to use a reflector on the local repeater



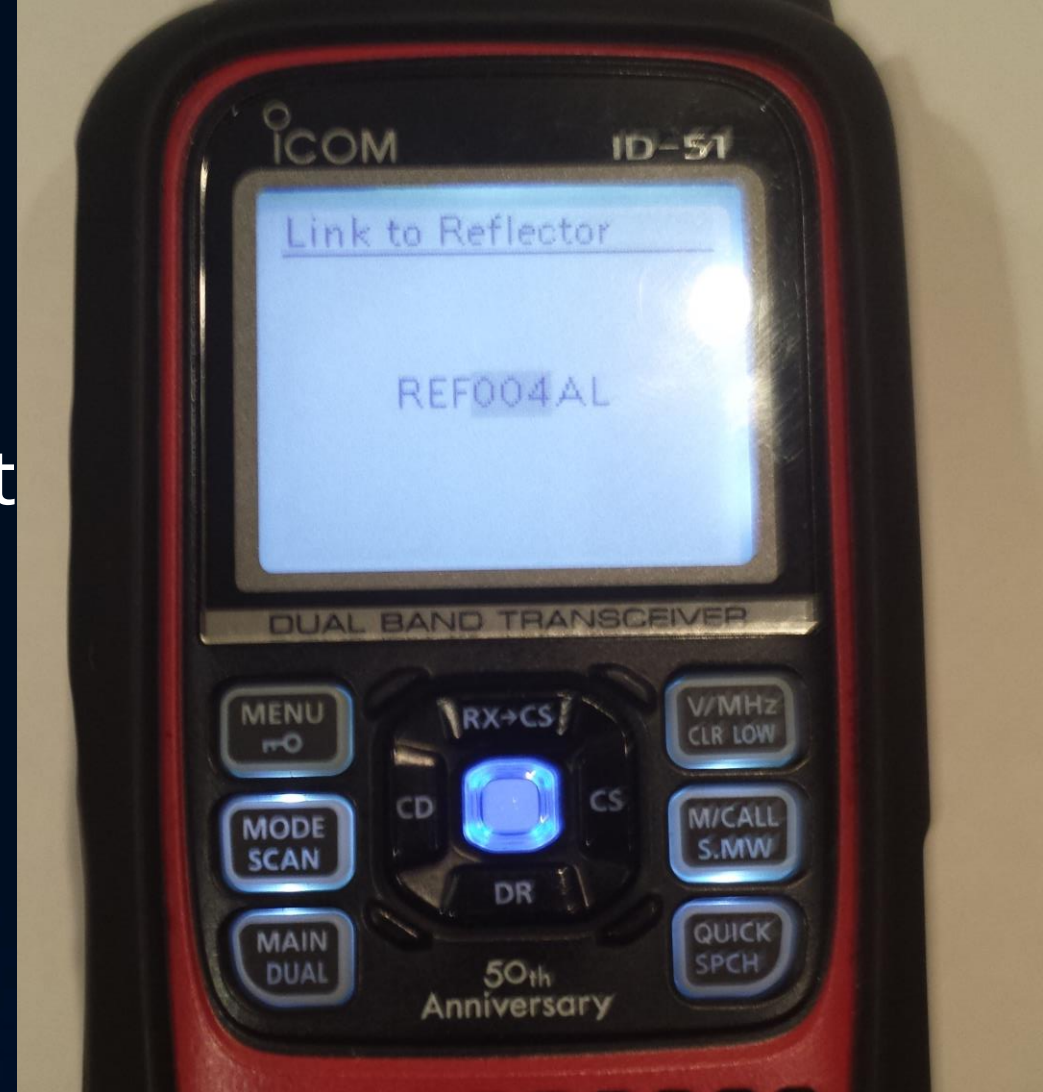
What to Do (TO)

- **Use Reflector** to use a reflector on the local repeater (Talk)
- **Link to Reflector** – select to choose a reflector to link
- **Unlink to Reflector** – select to unlink the local repeater from the reflector
- **Echo Test** – Plays back last transmission
- **Repeater Information** – Causes repeater to announce its callsign



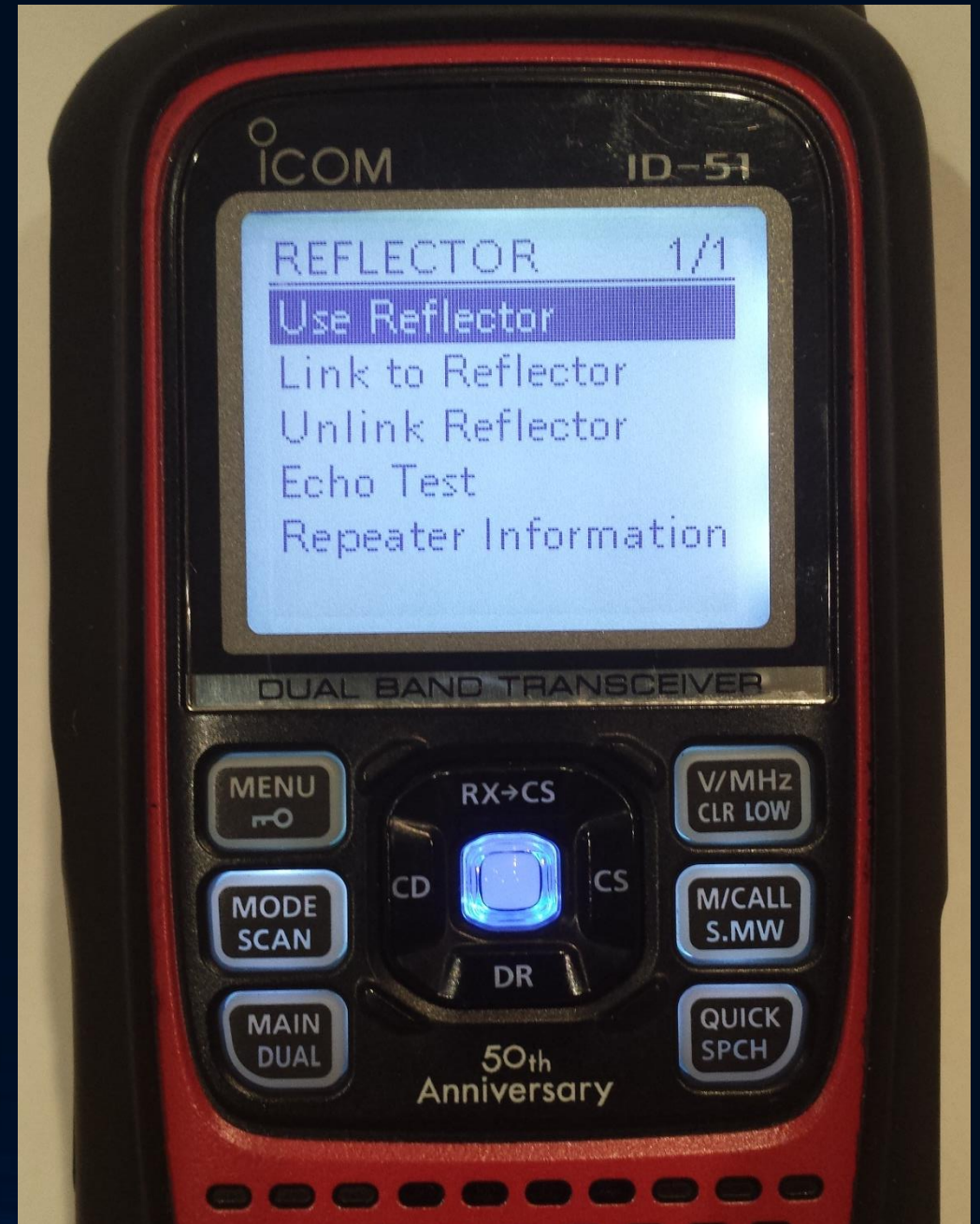
Selecting Reflector for Linking

- Select Direct Input to select a reflector and module
- Turn top channel knob to select reflector number
- Press right side of center (CS) to highlight and select module
- Press blue center button to make selection



Simple Rules for Linking / Unlinking

- If a repeater is already linked to a reflector, your radio follows the link
- You must unlink before linking to another reflector
- Once a "Link" command is issued, go back to **Use Reflector** to talk



Nearest Repeater

- With FROM highlighted, press the center blue button to get to this screen
- Select **Near Repeater**



Nearest Repeater

- Select type of nearest repeater
 - **Near Repeater (ALL)** to show both FM and D-STAR repeaters
 - **Near Repeater (DV)** to show only D-STAR repeaters
 - **Near Repeater (FM)** to show only FM repeaters



Nearest Repeater

- Nearest repeaters displayed sorted by distance to repeater
- Distance to repeater shown at bottom left of screen
- Callsign and module shown at lower left of screen
- Select repeater with blue center button



Updating Repeaters in D-STAR

- D-STAR radios come with pre-loaded list of repeaters
- Different memory configurations and repeater lists can be stored on internal SD Card.
- Easy updating of Repeater Lists can be downloaded from www.DstarInfo.com as CSV files

Let's practice updating repeaters!

