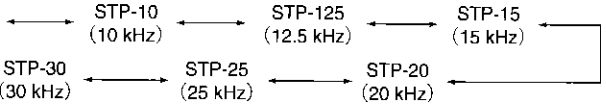
ing (P.26) using the
channel step will be

Display for channel step



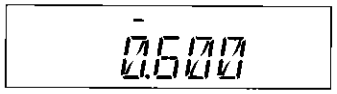

ne keys except SQL
the desired step into
The display will then
.

ay be automatically

# eration

## quency setting

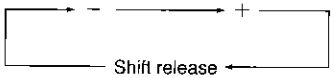
ne DUPLEX mode.
) on one frequency
NK). The difference
ne offset frequency.
the DOWN-LINK
it is lower, the shift
between 0 to 99.995
set beyond the TX
PTT is pressed.



at-600 kHz

*The default value of DR235TMkⅢ is 1.600(1.6MHz) in the negative direction.
*The default value of DR435MkⅢ/FXE is 5.000(5MHz) in the negative direction.

n the display, press
status of shift direc-
lue of DR135MkⅢ/
ive direction. Press
is set. If SIMPLEX
ve frequency) is de-
- icons disappeared.




DOWN keys on the microphone to change the shift fre-
dance with the channel step setting.

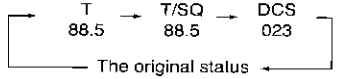
s pressed again, the offset frequency can be changed in
ng.

pt F or MHz on the front panel to return to the original

# CTCSS / DCS setting

Many repeaters require a CTCSS tone or a DCS code encode setting as a "key" to access the system, so-called "selective-calling". Sometimes, CTCSS or DCS decode features are used on the output of a repeater so they can be used as a squelch. In this mode, regardless of the main squelch status, the audio can be heard ONLY when the matching tone/code signal is received. The combination of CTCSS squelch and DCS function is not available; only one or the other may be used for a given memory channel.

***1.*** Press TS/DCS key. The current setting will be displayed with T/SQ/DCS icons and relative frequency/code. Press the same key to select T/SQ/DCS setting.




***2.*** The numbers (such as 88.5) represent the CTCSS frequency in Hz. When it is displayed with the T icon only, the unit transmits the sub-audible tone while the PTT is pressed (encode) and the repeater access is enabled (assuming the repeater is using 88.5).

***3.*** Press the same key again so that the SQ icon shows up on the display. This is the CTCSS decode frequency. This enables CTCSS squelch (or Tone Squelch, TSQ).

***4.*** Press it again so that the 3-digit number and DCS icon is displayed. This is the DCS code, and it enables DCS encoding and decoding.

For 2 - 4, rotate the main dial or press the UP/DOWN keys to change tone or code. Press any key (Except TS/DCS, UP/DOWN keys) to enter the setting and return to original status. The T/SQ/DCS icon will remain on the display to show the current status. To exit, simply use the TS/DCS key and press it until the relative status icon T/SQ/DCS disappears.

The CTCSS encoding and decoding frequencies may be set differently. The encode setting frequency automatically relates to the decode setting, but decode setting does not affect encode. The standard set of 39 different CTCSS tones are available as shown on the chart below. DCS encode/decode cannot be separated and are selectable from 104 codes as shown below.

| | | | | | |
|---|---|---|---|---|---|
| 67.0 | 69.3 | 71.9 | 74.4 | 77.0 | 79.7 |
| 82.5 | 85.4 | 88.5 | 91.5 | 94.8 | 97.4 |
| 100.0 | 103.5 | 107.2 | 110.9 | 114.8 | 118.8 |
| 123.0 | 127.3 | 131.8 | 136.5 | 141.3 | 146.2 |
| 151.4 | 156.7 | 162.2 | 167.9 | 173.8 | 179.9 |
| 186.2 | 192.8 | 203.5 | 210.7 | 218.1 | 225.7 |
| 233.6 | 241.8 | 250.3 | | | |

CTCSS Tone Frequency(Hz)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 023 | 025 | 026 | 031 | 032 | 036 | 043 | 047 | 051 | 053 | 054 |
| 065 | 071 | 072 | 073 | 074 | 114 | 115 | 116 | 122 | 125 | 131 |
| 132 | 134 | 143 | 145 | 152 | 155 | 156 | 162 | 165 | 172 | 174 |
| 205 | 212 | 223 | 225 | 226 | 243 | 244 | 245 | 246 | 251 | 252 |
| 255 | 261 | 263 | 265 | 266 | 271 | 274 | 306 | 311 | 315 | 325 |
| 331 | 332 | 343 | 346 | 351 | 356 | 364 | 365 | 371 | 411 | 412 |
| 413 | 423 | 431 | 432 | 445 | 446 | 452 | 454 | 455 | 462 | 464 |
| 465 | 466 | 503 | 506 | 516 | 523 | 526 | 532 | 546 | 565 | 606 |
| 612 | 624 | 627 | 631 | 632 | 654 | 662 | 664 | 703 | 712 | 723 |
| 731 | 732 | 734 | 743 | 754 | | | | | | |

DCS Codes