

# BECKER SAR-DF-517 Quick Ref Guide

## INDEX

<u>Description</u>	<u>Pg</u>
Power On .....	1
Training/Emergency .....	1
Training Mode Freq. Adjustment .....	1
Frequency Selection (Training Mode) .....	2
Frequency Selection (Emergency Mode) .....	2
Squelch Adjustment .....	2
Volume Adjustment .....	2
Display Brightness .....	2
Page 1 Control Display .....	3
Page 2 Control Display .....	4
Page 3 Control Display .....	4
ELT Checklist .....	5

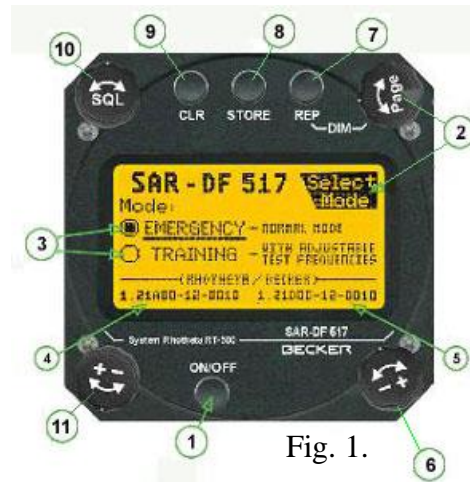


Fig. 1.

1. On/Off Push Btn
2. Page select Knob
6. Change Freq. Mhz/Khz
7. Brightness Btn
8. Store Button
9. Clear Btn
10. Squelch Level

### Power On

1. Mission Master On. Push center On/Off Button (1)

### Training/Emergency Mode

1. Power On (Have 10 sec. to switch)
2. Turn “Page” Kb (2) CW to select line under either:
3. Will go to Page (Pg) 1 after underline is selected in 2 sec.

**Emergency Freq:** 121.5mhz, 156.80mhz, 243.00mhz, 406.025mhz

**Training Freq:** Adjustable user selected Freqs. 1-4 on Page 6,  
1 – 4 Freqs. will be displayed on page 1 lower right when selected by using Kb (6) Fig. 3.

### Training Mode Frequency Adjustment (Four Freqs only)

1. See Figures 2 & 3 for details. Power Up Btn (1).
2. Select Training Mode within 1<sup>st</sup> 10 sec by turning the Page Kb (2) to under-line “Training”. Four Freqs. are adjustable.
3. Turn Page Kb (2) CW to page 6 memory page Fig.2.
4. **Select Freq.:** Rotate +/- Kb (4) Fig. 2 to move black high-light over MHz or Khz.
5. Adjust Freq. MHz 1<sup>st</sup> with +/- Kb (5) Fig. 2.
6. Press Store Btn (8) to store MHz.
7. Rotate +/- Kb (4) to move black high-light to select KHz. Rotate +/- Kb (5) to change value of KHz. Press Store again.
8. Rotate Kb (5) CCW for Pg. 1 with Freq. selected.

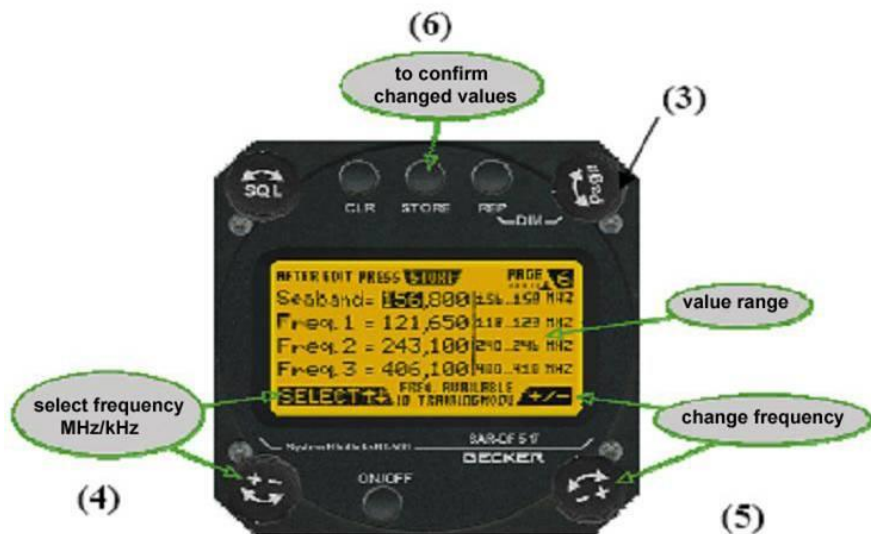


Fig. 2

**Frequency Selection (Training Mode)**

1. Set desired Frequencies on Page 6 within Freq. band shown.
2. Select Page 1 using Kb (2). CCW, See Fig 3.
3. Rotate Kb (6) to set one of four User frequencies on Pg. 1.

**Frequency Selection (Emergency Mode)**

1. Rotate Kb (6) Fig. 3 to select any one of four Fixed Freqs.  
156.80mhz, 121.5mhz, 243.00mhz, 406.025mhz

**Squelch Adjustment (Raise and lower Black squelch arrow)**

1. Rotate Kb (10) Fig. 3 until the black level arrow pointer is just below the top of the black signal level. If above, no signal or audio received and get outline of triangle.
2. As approach ELT black Signal Level gets larger.

**Volume Adjustment**

1. For Audio press ADF (non G1000) or AUX (G1000) on audio panel.
2. Rotate Kb (11) Fig. 3 for adjustment.

**Display Brightness**

1. Press and hold Rep button while turning Page Kb to desired brightness. Also controlled by aircraft interior lighting.



Fig. 3

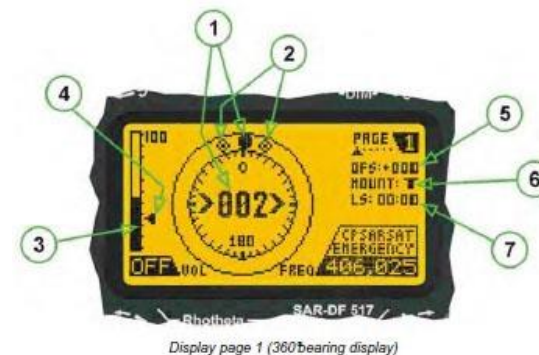


Fig. 4 Page 1 Display

**Page 1 Control Display (Fig.4)**

1. Bearing Direction Ahead (Relative Bearing)
2. Signal Reliability
3. Signal Strength Level
4. Squelch Level Indicator
5. Offset value
6. Antenna mounting
7. Last Signal time received



Display page2 (expanded +/- 45° bearing display)

Fig. 5 Page 2

**Page 2 Display (Fig. 5)**

1. Rotate Pg. Kb (2) CW for Pg. 2
2. Bearing Direction Ahead (Relative Bearing)
3. Signal Reliability



Display page3 (bearing display as text)

Fig. 6 Page 3

**Page 3 Display (Fig. 6)**

1. Rotate Pg. Kb (2) CW for Pg. 3
2. Bearing Direction Ahead Text (Relative Bearing)
3. Signal Strength Level

**ELT Checklist (Becker SAR-DF 517)**

**DCU (Display Control Unit) Operation to Acquire Signal**

1. Aircraft Master Power – On
2. Mission Master Switch – On
3. On/Off button – Press
4. Page Mode (upper right corner) – Emergency or Training
- \* Note: Page select will only appear during first 10 seconds when unit is powered up. Turn off and re-power up if you cannot get Em/T Mode.
5. Freq Select (lower right corner) – 121.775 for Training
6. Freq Select – Select Scan for Real World Mission (Will monitor 121.5, 243.00, 406.025)
7. Dim – Press Rep and turn Page dial simultaneously to desired brightness
8. Page – Turn to desired page (displayed upper right corner of LED display)
9. Volume – Adjust to 75% (lower left corner of DCU)
10. Squelch – Adjust so that it is below noise level
11. Comm Panel – Depress ADF switch to monitor audio signal; G1000 press Aux.
12. Observer – Adjust page dial to 360° mode

**Bearing once Signal is acquired**

1. Observer – Direct course changes to pilot based off of bearing received from DCU (\* Note number on DCU is a *relative bearing* from the nose of the aircraft *NOT* aircraft heading indicator)
2. Observer – Direct course changes to pilot based off of bearing received from DCU
3. Crew – Maneuver left/right so that bearing reads 5°
4. Observer – Adjust receiving level to a lower signal strength, no higher than 50%
5. Observer – GPS set to SAR Map page
6. Crew – Reading from DCU will drop to the right – when it is at 90° press MRK key on GPS
7. Crew – Transition into visual search