

ELT Checklist (Becker SAR-DF 517)

Power Up DCU (Display Control Unit)

1. Aircraft Master Power – On
 2. On/Off button – Press
 3. Page Mode (upper right corner of DCU) – Emergency or Training – Depending on mission missions
- * Note: Page select will only appear during first 5 seconds when unit is powered up. Turn off and re-power up if you cannot get the right freq.
4. Freq Select (lower right corner of DCU) – 121.5/406 – 121.775
 5. Dim – Press Rep and turn Page dial simultaneously to desired brightness
 6. Page – Turn to desired page (displayed upper right corner of LED display)
 7. Volume – Adjust to desired level (lower left corner of DCU)
 8. Squelch – Adjust so that it is above noise level

Bearing

1. Observer – Adjust page dial to 360 deg mode
2. 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)
3. Observer – Adjust page dial to 90 deg mode
4. Observer – Direct course changes to pilot based off of bearing received from DCU
5. Observer – Adjust receiving level to a lower signal strength, no higher than 50%
6. Crew – Transition into visual search

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

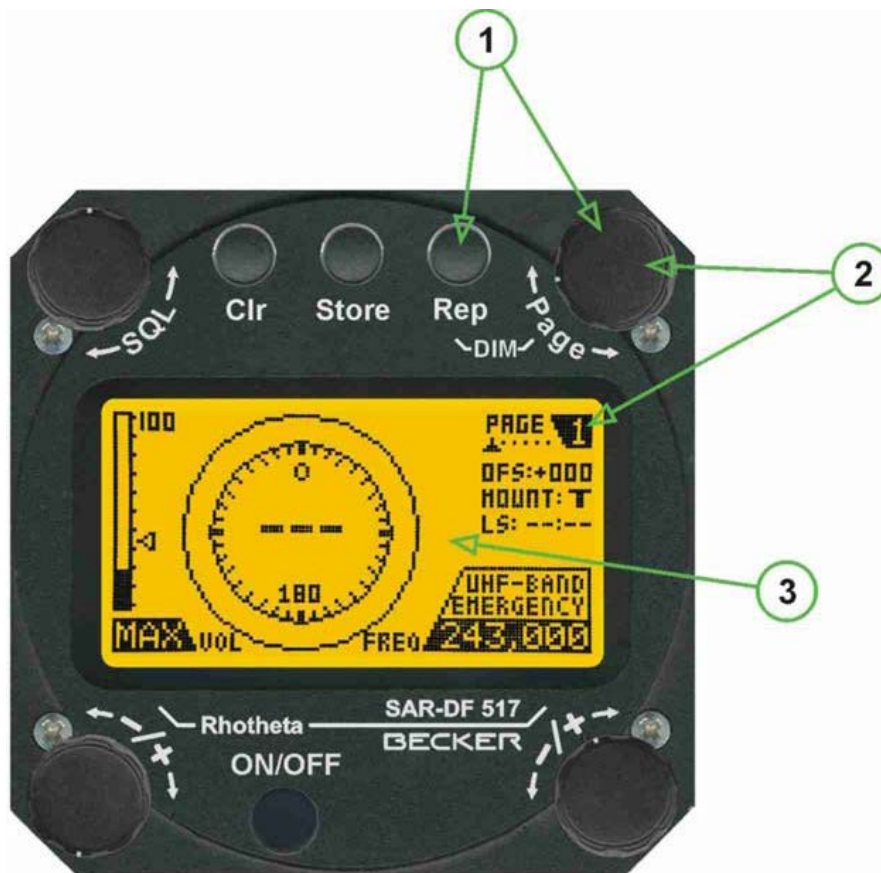
1. Make sure receiving unit is clean during pre-flight
2. Aircraft Master Power – On
3. Mission Master Switch – On
4. Becker On/Off button – Press to turn on unit
5. Select Operations Mode (upper right corner knob) – “Emergency” or ”Training”

Operations mode selection only available during first 10 seconds when unit is powered up. Turn off and re-power up if you cannot get the right freq.

6. Freq Select (lower right corner knob) – 121.775 for Training, or 156.8(marine)/121.5/243/406 for Real Mission
If 121.775 training freq not available, program in on Page 6 after unit has completed set-up process. Use store button.
7. Adjust page dial to 360° mode
8. Dim – Press Rep and turn Page dial simultaneously to desired brightness
9. Volume – Adjust to 75% (lower left corner of DCU) while acquiring signal
10. Squelch triangle– Adjust so that it is **below** ambient noise level bar
11. Comm Panel – Depress ADF switch to monitor audio signal
12. GPS set to SAR Map page-prepare to “mark”

Once Signal is acquired (monitor over com radios as backup)

1. Squelch triangle– Adjust so that it is **above** ambient noise level bar (saves ears from static noise)
2. Continue to Turn Volume down as signal increases
3. 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*)
4. Maneuver a/c so that bearing reads 1-5°
5. Ball will drop to the right as Becker receiving unit passes ELT – when ball is at 90°, press MRK key on GPS to mark lat and long
6. Crew – Transition into visual search on right side of a/c as ball begins to start dropping to the right



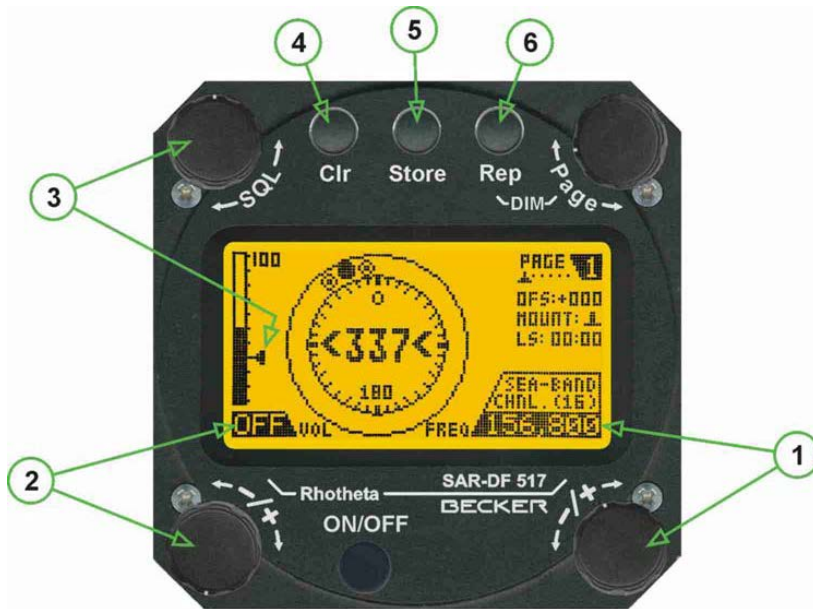
ON/OFF< Pushbutton to switch on/off the device.

2 >Page / Select Mode< rotary switch for selection of the operating mode after power-on.

3 >Mode< Indication of the actual operating mode.

- Emergency: Selection of the international emergency frequencies.
- Training: free adjustable training frequencies.

1 >DIM< In order to adjust “internally” the background brightness of the display press simultaneously the REP key while selecting the brightness with the PAGE rotary switch.



1 >FREQUENCY< Rotary switch selecting the active frequency. The last selected frequency remains stored after switching off/on the device. The selected frequency is shown on the graphic display bottom right. Following the order of possible frequencies:

2 >VOLUME< Rotary switch for the AF-audio exit. A linked external speaker resp. amplifier can be adjusted in a range from 0% (off) to 100% (max). The selected volume is shown in the graphic display bottom left. The volume remains stored after switching off/on the device.

3 >Squelch level< Adjusts the squelch level, which has to be above the receiving level without signal (noise). For each frequency exists a squelch level, which has to be adjusted separately.

4 >CLR< Pushbutton for erasing the internal bearing value averaging store. The sophisticated averaging store increases bearing precision and effects at all a usable bearing display for bad receiving signals (if there is a far away transmitter and/or temporary complete loss of a receiving signal). Caused by the averaging procedure a drag error may occur, which might be disturbing after quick changes of course. In this case the indicated bearing value lags by the real bearing value for about two seconds (for very weak signals even longer). By pressing this pushbutton after a quick change of course the display will show the new bearing value without drag error.

5 >STORE< pushbutton . While bearing an AM signal a 3 kHz sound is superimposed to the audible AF because of technical reasons. When pushing this button this disturbing sound will be switched off (enables better hearing of a signal, meanwhile bearing isn't possible anymore). A FM signal (e.g. maritime radio band) is always clearly understandable, for a filter in the device is fading-out the superimposed 3 kHz sound.

6 >REPEAT< Pushbutton, when pressed, showing the last valid bearing value with corresponding receiving level.

