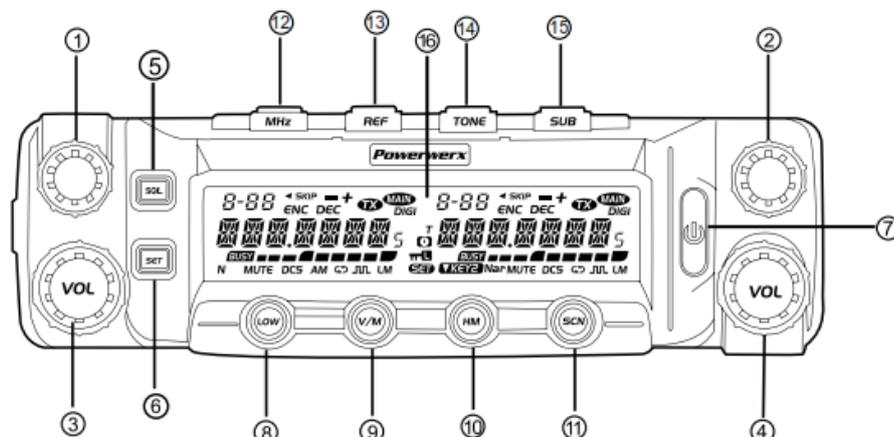


Polmar DB-50M quick reference guide

Front panel



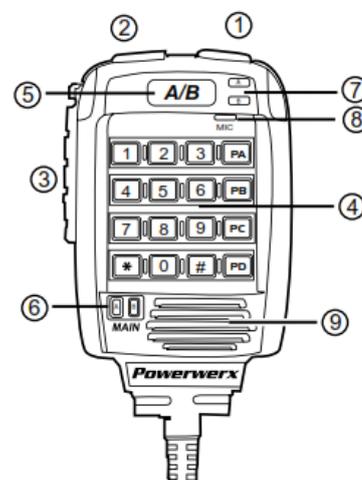
1	Dial A	R: Change channel/freq/scan dir	P: Set as main band/confirm setup
2	Dial B	R: Change channel/freq/scan dir	P: Set as main band/confirm setup
3	Vol A	R: Adjust volume	H: Delete memory channel (Hold to confirm)
4	Vol B	R: Adjust volume	H: Delete memory channel (Hold to confirm)
5	Sql	H: turn Squelch off momentarily, rotate dial to change Squelch level	
6	Set	P: enter Set menu	H: Write/Copy Memory channel (hold Set to confirm) or Delete Memory channel (hold Vol to confirm)
7	φ	H: Power on/off	
8	LOW	P: Power level Low/Mid2/Mid1/High	H: Additional Signalling 5T/2T/DTMF
9	V/M	P: VFO mode <-> Memory mode	H: Channel spacing Wide/Middle/Narrow
10	HM	P: Enable Home channel	H: Dual Watch (VFO+Memory ch) on/off
11	SCN	P: Scanning on/off	H: turn Skip on/off for Memory channel
12	MHZ	P: change dial step 1MHz/10 ch	H: Talk Around (RX/TX on repeater output) on/off
13	REV	P: Frequency Reverse on/off	H: Compander on/off
14	TONE	P: cycle Tone/CTCSS/DCS	H: CTCSS/DCS scan (when CTCSS/DCS is on)
15	SUB	P: configure sub band settings	H: cycle through Scrambler settings

P: = press knob/key once, H: = hold knob/key down for 1 second, R: rotate knob

Microphone

1	UP	RX: channel/frequency up	TX: Call Out
2	DN	RX: channel/frequency down	TX: TBST
3	PTT	Transmit	
4	0..9	RX: input memory ch/frequency	TX: send DTMF 0..9/*/#/A..D
	*	RX: Squelch on/off	
	#	RX: input and store memory freq	
	PA..PD	RX: programmed keys	
5	A/B	RX: main band A<->B	
6	MAIN	Main band indicator	
7	RT	RX/TX indicators	
8	MIC	Microphone	
9		Speaker (when enabled in Menu 55)	

RX: = press while in standby, TX: press while transmitting



Often used Menu settings

- 03 – STEP: change frequency step (in VFO mode only)
- 29 – NAME C: edit channel name (in Memory mode only)
- 36 – RPT MOD: change repeater offset direction (or off), can also be programmed as PA..PD
- 39 – SHIFT: set repeater shift in MHz (separate settings for band A and B)
- 55 – HND SPK: turn internal and hand speaker on/of

Tips and tricks

- Starting a **VFO scan** between a set of Lower/Upper memories scans between those frequencies only
- A and B band have **separate Home, VFO and Repeater Offset configurations**, so keeping one side for 2m (0.6MHz offset) and the other for 70cm (1.6 or 7.6MHz offset) keeps you from changing the offset when programming repeaters.
- Set Menu 20 TBST to **1750Hz** for opening repeaters.
- Set Menu 25 MUTE to off, since you can turn the volume down for the sub band if you do not want to hear it while listening/transmitting to the main band.
- Set Menu 40 DISPLAY to Name to show the channel name and press * on the microphone keypad to turn squelch off and display the frequency of the channel at the same time,
- Functions not available on front panel keys but available for programmable PA-PD keys are: RPTR, PRI, TBST (also as PTT+DN), CALL OUT (also as PTT+UP).
- Set one of the programmable keys to PRI and set Menu 38 SCAN M to MSN to scan priority channels only, now you can mark channels to scan on the fly.
- Programming the DB-50M through software will enable you to use other characters than A-Z, space, 0-9 for channel names (only * and # though), change the welcome text, change Home frequencies and more. Unfortunately the programming cable is not included, but is available separately.
- The DB-50M does not turn on automatically when applying 13.8V DC.
- **108-136MHz frequencies** cannot be programmed/edited with the official software (frequency out of range error, correct since the DB50M does not officially supports those frequencies), but can be stored on the DB50 itself (and then read and written by the software). However, Menu 04 BAND needs to be set to OFF, since otherwise you can only enter frequencies in the same band in VFO mode. You also need to set Menu 51 AUT AM to AUTO to let the radio switch to AM below 136MHz automatically or need to manually set Menu 50 AM to ON when in VFO mode.
- **The DB-50M can be programmed with Chirp** (daily build, program as Anytone AT-5888UV) and can be used to program 108-136 (AM) frequencies, but not all settings are supported. Chirp lacks the Power and Optional Signalling and doesn't support the use of * and # as channel name characters. But it can import bij CSV file, something the official software can't.
- When you **use AM on band A** (which can only be used on the not supported 108-136MHz and on band A only), the DB50M will refuse to TX on VHF (on band B) and sound 5 short beeps. Using FM on band A on any frequency does not do this.

Programmable keys suggestion

- PA: V/M, switch between VFO and memory mode
- PB: PRI, mark current main channel as Priority channel
- PC: TBST, send Tone Burst (1750Hz) to open repeater
- PD: LOW, cycle through output power settings (LOW/MID2/MID1/HIGH)

Note: reference is for **Keymode 2** and **opened up set only**, hold **Sql** while powering up and select **Mode 1** with left dial knob, power cycle, then set Menu 23 Keymod to Key 2.