

# **JBS-146D SPECIFICATIONS**

07/08

## GENERAL

FCC ID: AIERIT16-146
Industry Canada ID: 1084A-RIT16146
FCC Rule Parts: 90, 90.210, 95
Frequency Range: 150-162 MHz
Max. Freq. Separation: 12 MHz

**RF Channels:** Up to 10 Channels, Independent TX/RX frequencies.

Synthesizer Step Size: 5 kHz

Frequency Stability:  $\pm$  2.5 PPM (-30 C to +60 C) TX/RX

Tone/Code Signaling: CTCSS (Quiet Call)

Digital Coded Squelch (Digital Quiet Call)

2-Tone Paging Decode
DTMF ANI Encode

Dimensions:1.5" H x 3.75" W x 6.0" DWeight:1 lb. 5 oz. with antennaEnclosure Material:Steel with e-coat finish

**Earphone Jack:** 3.5 mm, disconnects the internal speaker for external earphone,

speaker / microphone, or headset. Also provides cable

connection for PC programming.

**Microphone/PTT:** 2.5 mm, disconnects the internal microphone for external

Speaker / microphone or headset.

Antenna Fitting: BNC

## RECEIVER

	Wide Mode	Narrow Mode
Modulation Acceptance:	<u>+</u> 7.0 kHz	<u>+</u> 3.75 kHz
Sensitivity (12 dB SINAD):	0.25 μV	0.25 μV
Adjacent Channel (EIA):	- 70 dB	- 60 dB
Spurious Rejection:	- 70 dB	- 60 dB
Image Rejection (EIA):	- 80 dB	- 80 dB
Intermodulation (EIA):	- 65 dB	- 55 dB

Noise Squelch Sensitivity: Programmable per channel, factory set for 12 dB SINAD

Frequency Response: 300 - 3000 Hz, de-emphasized

Audio Output: 1 Watt into 8 Ω, with less than 5 % THD @ the earphone jack

**Receiving System:**Dual conversion superheterodyne **I.F. System:**1st-43.65 MHz, 2nd - 450 kHz

**L.O. Injection:** High side

QC/DQC Decode Time: per EIA Standards

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#### TRANSMITTER

 Wide Mode
 Narrow Mode

 Emission Designator:
 16K0F3E
 11K0F3E

 Deviation:
 ± 5.00 KHz
 ± 2.50 KHz

 FM Hum and Noise:
 - 48 dB
 - 42 dB

 Audio Distortion:
 < 2 %</td>
 < 6 %</td>

RF Power Output: 2.5 Watts @ +13 VDC

Spurious & Harmonics: - 60 dBc

Audio Response:Meets FCC and EIA requirementsTime-out Timer:60 seconds, programmable

## POWER REQUIREMENTS @12VDC

Standby:72 mASleep:25 mAAvg. Standby with Power Saver:28.5 mAReceive:250 mA

**Transmit:** 600 mA @ 2.5 Watts

#### CONTROLS

On/Volume Up: Radio emits the Channel Beep when turned on, followed by increasing

volume as indicated on the Channel Display.

**Volume Down/Off:** Decreasing volume as indicated on the Channel Display, with two tones

when turned off.

**Both Volume Buttons:** Alternates between Tone Squelch (single beep) and Carrier Squelch

(two beeps). On channels programmed for 2-tone paging decode, three

beeps indicates 2-tone paging is set.

If both buttons are held down until the radio beeps repeatedly, squelch

will be disabled.

"Z" Button: The Special Function "Z" button can be programmed for one of the

following features:

• Scan – The radio emits the Scan Beep and the display will rapidly flash the channels as they are scanned, and will stop

when a channel is received.

• Send DTMF ANI – The radio transmits the pre-programmed DTMF

ANI string, and the ANI string is heard on the speaker.

• **Monitor** – Alternates the receiver between Tone squelch (single beep), carrier squelch (two beeps), and 2-tone paging decode (three beeps).

• Call Tone –The radio transmits a Call Alert Tone that is also heard on

the speaker.

PTT: Activates the transmitter, and is programmable for a single "transmit beep".

**Channel:** The Channel Beep will sound whenever channel 1 is selected.

When the scan channel is selected the radio emits the Scan Beep.

Channel Display: The 7-segment LED display indicates current operating channel.

When the scan channel is selected the display will rapidly flash the channels as they are scanned, and will stop when a channel is received.

The channel display also indicates volume level whenever a volume control

is pressed.

**Transmit/Monitor Lamp:** A single light in the lower right corner of the channel display is lit continuously

when the transmitter is active and blinks when the receiver detects a carrier.

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