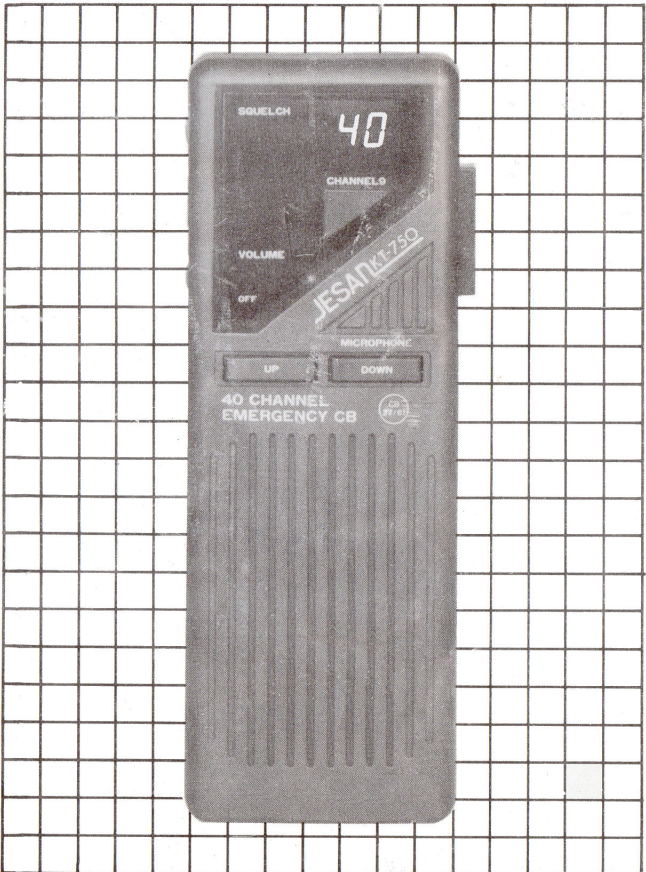


OWNER'S MANUAL

®
JESAN KT-750

CB 40-CHANNEL WALKIE-TALKIE



SPECIFICATIONS

TRANSMITTER SECTION

POWER OUTPUT	4 Watt MAX (AT 13.8V DC)
EMISSION	F3E
SPURIOUS RESPONSE	All harmonic and spurious
REJECTION	suppression greater than MPT
	1320 requirements.
FM DEVIATION	± 1.5 KHz typical

RECEIVER SECTION

CIRCUIT TYPE	Dual conversion superheterodyne with RF stage and 455 KHz ceramic filter.
FREQUENCY	1 crystal-controlled PLL, 40 channels in the 27 MHz Citizens Band
SENSITIVITY	1.0 μ V for 10 dB S/N
SQUELCH RANGE	1mV
SELECTIVITY	60 dB down at ± 10 KHz
IF FREQUENCY	1st IF: 10.695 MHz
	2nd IF: 455 KHz
IMAGE REJECTION	55 dB
AUDIO OUTPUT	2.5W maximum at 8 ohm load
CURRENT DRAIN	250 mA on standby (no signal)
CURRENT DRAIN	Less than 1.5A
(MAXIMUM)	
ANTENNA	Nominal 50 ohms impedance
POWER SOURCE	Operates from nominal 12 volts DC, negative ground system.

GENERAL SECTION

SPEAKER 15/8" (40mm) Permanent magnet dynamic type
MICROPHONE: Built-in electric-condenser type with FET amplifier

DESCRIPTION

This model is an all-transistor 2-way radio transceiver. A frequency synthesizer circuit provides 40 crystal controlled PLL transmit and receive channels in the 27 MHz Band, engineered for trouble free performance. Your transceiver uses heat resistant transistors in all critical areas. Current drain on 12 volts DC is exceptionally low. The transceiver may also be operated from A.C. when used with an optional Power Supply.

RECEIVER

The receiver is a sensitive and highly selective dual-conversion superheterodyne type providing crystal-controlled PLL operation on all 40 CB channels. The circuit incorporates an effective full time Automatic Noise Limiter in the audio stages. A ceramic filter provides sharp selectivity and high adjacent channel rejection. As a result, transmissions on adjacent channels cause minimum interference. A variable squelch control is incorporated to "silence" the receiver when no signals are being received. The squelch circuit is adjustable providing varying degrees of sensitivity to incoming signals.

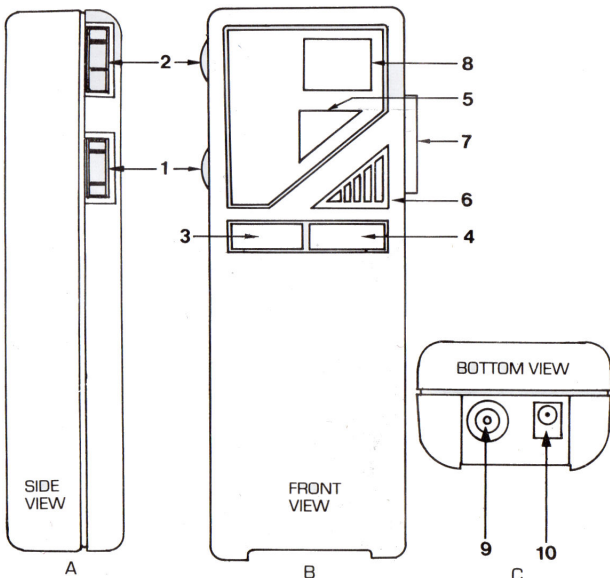
TRANSMITTER

The transmitter offers crystal-controlled operation on all 40 CB channels. 5 watt DC power input to the final RF with average modulation capabilities is possible by the use of high-efficiency Transistors and low loss components, wiring, and the legal limit of power for this service is provided.

READ BEFORE INSTALLING!

CB LOCATION OF CONTROLS AND OPERATING INSTRUCTIONS:

Fig. 1 LOCATION OF CONTROLS AND FEATURES



1. **ON/OFF SWITCH AND VOLUME CONTROL:** This control turns the transceiver on and off and adjusts the output volume level of the built-in transceiver. The volume control does not affect the transmit volume level.
2. **SQUELCH CONTROL:** This control is used to set the incoming level for the squelch circuit to turn on the audio output. When the incoming signal strength is below the level you select, the squelch circuit automatically shuts off the audio output.
3. **CHANNEL SELECTOR CONTROL:** Each time you press the left side of the channel selector bar, the transceiver will shift up one channel.
4. **CHANNEL SELECTOR CONTROL:** Each time you press the right side of the channel selector bar, the transceiver will shift down one channel.
5. **CHANNEL 9 OVERRIDE SWITCH:** For emergency call or monitor (CH 9 operation) press the CH 9 OVERRIDE CONTROL and the transceiver will automatically switch to CH 9. Press the button again to switch back to normal mode of operation.
6. **MICROPHONE:** High performance built-in microphone for clear high quality transmitted signal.
7. **PRESS TO TALK BAR:** Press this bar to transmit and release the bar to receive.
8. **DIGITAL DIAL:** Digital channel number display.
9. **COAXIAL ANTENNA CABLE CONNECTOR:** This RCA type connector is used to attach the antenna cable to the transceiver.
10. **12 VOLT DC POWER JACK:** This 12 volt jack is used to connect the power cord to the transceiver.

ANTENNA LOCATION AND FINE TUNING ADJUSTMENT:

The magnetic base of the antenna enables you to mount the antenna on any flat steel surface securely. The ideal location for the antenna is the center of the roof of the car. If the car has a vinyl-roof, or if the roof is not usable as an antenna mounting position for whatever reason, the next best alternate is the center of the trunk door or the horizontal panel between the trunk door and the rear window.

The flexible "Rubber Duckie" antenna must be mounted in the location in which you intend to use it if you wish to make any antenna adjustments. While the RD1 "Rubber Duckie" antenna is pre-tuned at the factory, it may occasionally need fine tuning. Tuning the antenna is accomplished by slightly lengthening or shortening the antenna.

In the event it is necessary to replace a fuse, it should be replaced with a 2 amp fuse. If the unit continues to blow fuses, please return the unit for service.

HAND HELD CB INSTALLATION GUIDE:

After you have mounted the CB on the dash or visor using the built-in visor clip, connect the 12V power cord. Plug cord into the jack on the bottom of CB and insert the cigarette lighter plug into the outlets of the car.

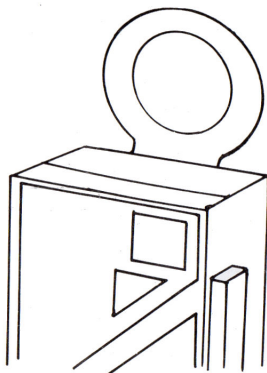
Connect the antenna using the coax cable connector. See Fig. 1C. Stretch the antenna cable out to its full length and bring the antenna cable to the unit, preferably through a back window, and allow a small amount of slack. (The rubber cushion around most automobile windows has sufficient play to allow the cable to pass through without causing damage.) Run the cable behind and under the front seat and use the coaxial connector at the end of the cable to attach it to the transceiver antenna jack. Since the antenna can be easily removed when not in use, we recommend that the cable installation be done in a semi-permanent manner. If there are floor mats in the front of the car, run the cable under the floor mats, near the transmission hump, so as to avoid the possibility of snagging the cable lying loose on the floor.

When not in use, the antenna must be removed and stored inside the automobile.

NOTE: Road grime and dirt can affect antenna performance. It is a good practice to clean the exterior of the antenna thoroughly every three or four months to insure continued high performance.

Use the convenient hanger ring (See Fig. 2) to hang the hand-held CB on any available knob on the dash panel. Select a location that will not interfere with any of the operating controls of the vehicle.

Fig. 2
HANGER RING



CAUTION: NEVER PRESS THE TALK BAR ON THE CB UNLESS THE ANTENNA IS CONNECTED OR A DUMMY LOAD IS CONNECTED TO THE ANTENNA CONNECTION. UNDER NO CIRCUMSTANCES SHOULD A LARGER FUSE BE USED THAN THE ONE ORIGINALLY SUPPLIES.

CB OPERATING INSTRUCTIONS:

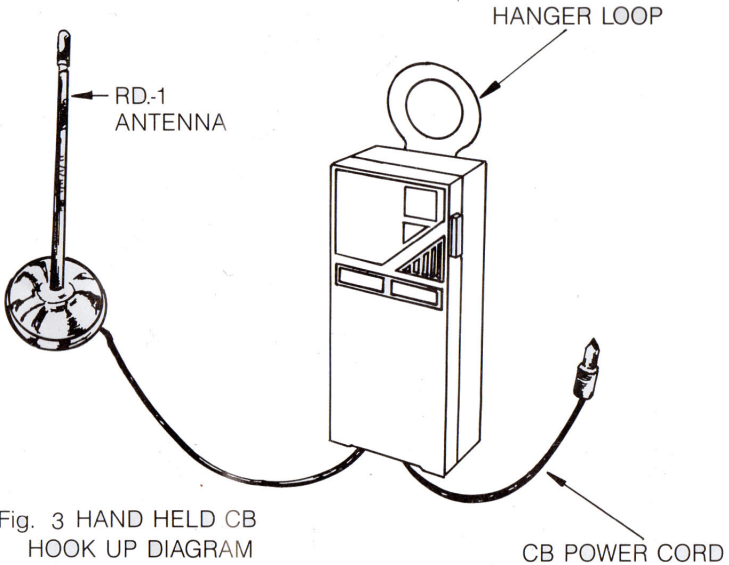


Fig. 3 HAND HELD CB
HOOK UP DIAGRAM

RECEIVER OPERATION

Set the volume control and the squelch control to minimum, then turn the power on. Increase the volume control until some noise or signal is heard from the speaker. With no incoming transmission present increase the squelch control to the threshold which blanks out the noise. The squelch control should be increased only far enough to prevent the noise from being heard. Increasing it too much will result in a weak station being unable to break through the limits.

When a station transmits on the channel to which you are tuned, the squelch circuit will operate and allow that station to be heard. When that station stops transmitting and no signal is received, the squelch will again turn off the audio and no sound will be heard.

Set the desired channel and adjust the volume level to suit your preference for the station you are listening to.

TRANSMIT OPERATION:

Select the channel that you want to use both transmit and receive. Speak into the microphone holding it about 2" away while pressing down on the press-to-talk button. Release the button to stop the transmission. This button automatically switches the transceiver into the transmit mode only when it is pressed down.

Make sure that the microphone is not too far away. If the modulation level is low, more background noise will be picked up and the signal will not carry as far. When you hold the microphone close, you do not have to shout, just talk in a normal voice.

If you are listening to a very weak station, adjust your squelch control so that it will not cut off that station transmission to you.

CAUTION: DO NOT PUSH THE PRESS TO TALK SWITCH BEFORE CONNECTING AN ANTENNA OR DUMMY LOAD TO THE TRANSCEIVER. TURNING ON THE TRANSMIT FUNCTION WITHOUT AN ANTENNA OR DUMMY LOAD CONNECTED CAN CAUSE SERIOUS DAMAGE TO THE UNIT.

OPERATION

To Receive

1. Connect the antenna and keep it in a vertical position.
2. Switch on.
3. Set the SQUELCH control to the extreme minimum position.
4. Set the channel selector to the desired channel.
5. Adjust SQUELCH to cut out annoying background noise when no signal is being received. To do this, set the channel selector where no signals are present, or wait until signals cease on your channel. Then set SQUELCH upper side to the point where the background noise just stop.

Now, when a signal is present, you will hear it but will not be disturbed by noise on the channel in between signals.

When properly set, the SQUELCH will keep the receiver dead until a signal comes in on that channel. Do not set the SQUELCH too high, or weak signals will not be able to open the squelch circuit. To receive weak signals, it is best to leave SQUELCH set at the minimum position.

Adjust VOLUME for a suitable listening level.

To Transmit

1. Connect the antenna and keep it in a vertical position.
2. Switch on.
3. Set the channel selector to the desired channel of operation.
4. To transmit, press PUSH TO TALK BUTTON. Speak slowly and clearly in a normal voice, 2-3 inches (5-7.5cm) from the microphone. A built-in modulation limiter circuit allows the microphone to adjust automatically to a wide variety of voice levels. There's no need to shout or speak loudly-the built-in circuitry automatically compensated for voice levels.
5. To receive, release the PUSH TO TALK button.

SERVICE AND MAINTENANCE

It treated with the reasonable care accorded any electronic equipment. Avoid handling it roughly. And avoid subjecting it to dirt or moisture.

If you experience problems when receiving, we recommend that you check the following:

- Batteries for weak or discharged condition.
- OFF Switch setting.
- SQUELCH Control for proper adjustment.
- CHANNEL Selector for an active channel.

If trouble is experienced with transmitting, check for the following:

- Is the antenna connected for proper operation?
- Are you fully pressing the PUSH TO TALK button?

If these checks don't solve the trouble, do NOT attempt repairs or adjustments yourself. The unit should be serviced only by a qualified radio service technician. Whenever possible, return the unit to the store from which it was purchased.

AVAILABLE CITIZEN BAND FREQUENCIES

Your transceiver provides operation on all available Citizens Band channels. Frequencies are listed in accompanying table.

Chanel	Frequency in MHz	Channel	Frequency in MHz
1	27.60125	21	27.80125
2	27.61125	22	27.81125
3	27.62125	23	27.82125
4	27.63125	24	27.83125
5	27.64125	25	27.84125
6	27.65125	26	27.85125
7	27.66125	27	27.86125
8	27.67125	28	27.87125
9	27.68125	29	27.88125
10	27.69125	30	27.89125
11	27.70125	31	27.90125
12	27.71125	32	27.91125
13	27.72125	33	27.92125
14	27.73125	34	27.93125
15	27.74125	35	27.94125
16	27.75125	36	27.95125
17	27.76125	37	27.96125
18	27.77125	38	27.97125
19	27.78125	39	27.98125
20	27.79125	40	27.99125

TRANSCIVER SERVICING

Transceiver has been fully tested prior to shipment and will not normally require further adjustments.

CARRYING CASE

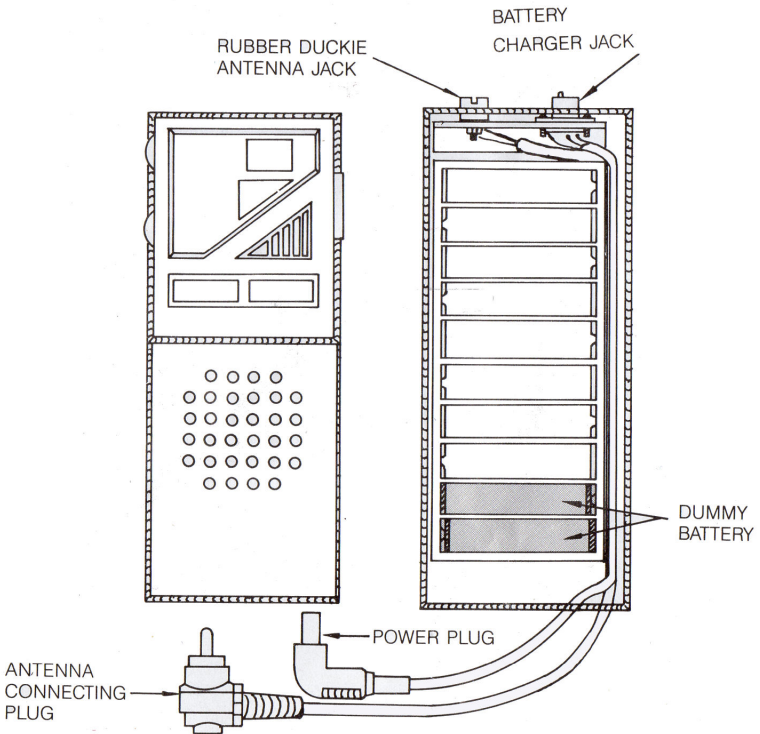
This carrying case is prepared for hand-held service instead of mobile emergency CB use.

Antenna connecting plug and power plug should be connected to CB and RUBBER DUCKIE antenna also connected to antenna jack.

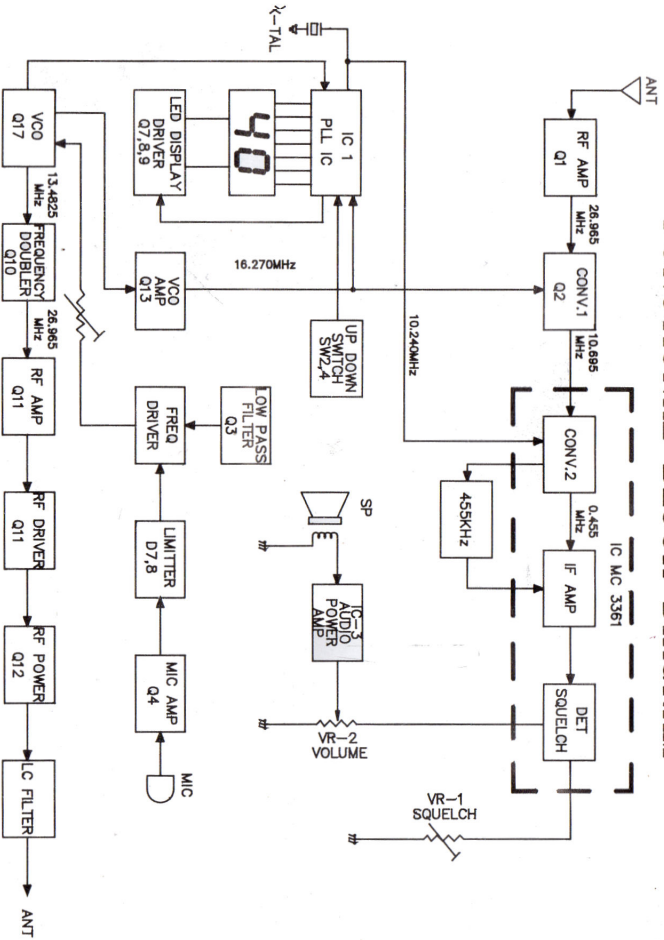
You can use the following types of size AA batteries:

Description	Quantity
Rechargeable Nickel-Cadmium (1.25 volts)	Required 10
Alkaline (1.5 volts)	8
Standard (1.5 volts)	8

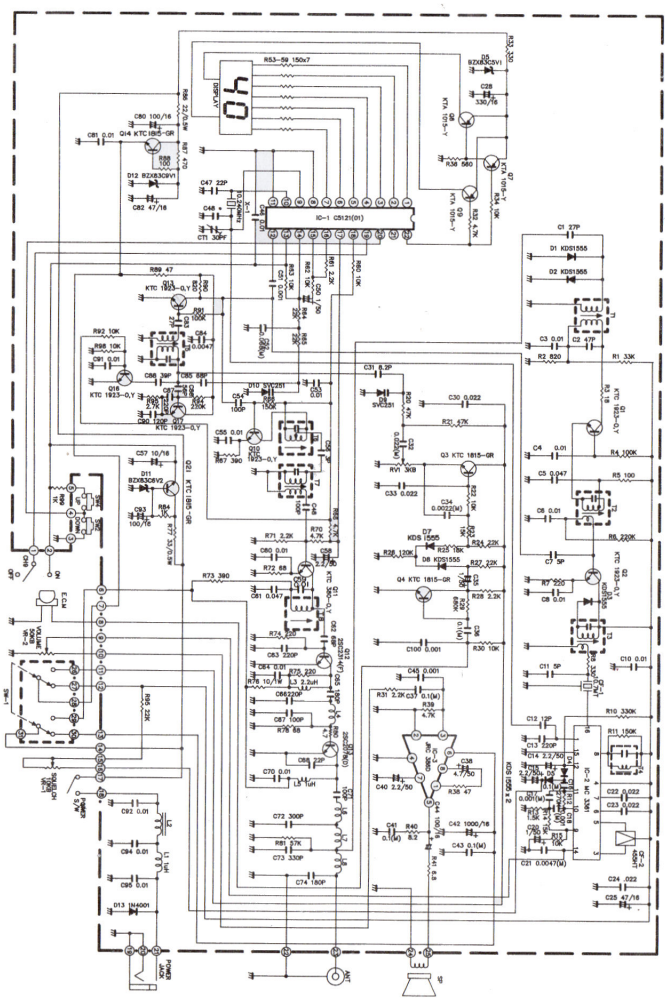
Note: Nickel-cadmium batteries are typically in a discharged condition when they come from a store. Therefore, if you using nickel-cadmium batteries, you will probably have to charge them before using your Walkie-Talkie. Connect charger plug to battery charger jack on the top of carrying case. Charging time will be 8 to 24 hours the first time. Subsequent charging should take approximately 14 hours.



FUNCTIONAL BLOCK DIAGRAM



SCHEMATIC DIAGRAM



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