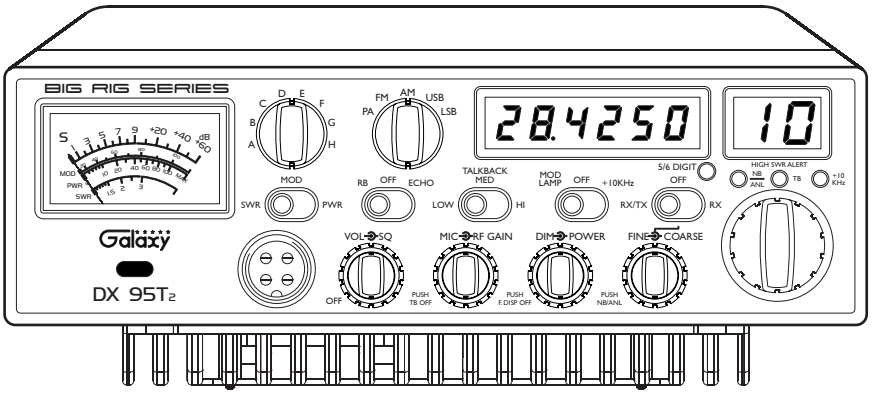
Galaxy

DX 95T2



10 Meter
Amateur Mobile Transceiver
With Built-in Frequency Counter &
StarLite Face Plate

OWNER'S MANUAL

TABLE OF CONTENTS

CHAPTER 1 SPECIFICATIONS

GENERAL

Model	DX95T2
Frequency Range	28.315 ~ 28.755 MHz
Emission	FM/AM/USB/LSB
Frequency Control	Phase-Lock-Loop (PLL) Synthesizer
Frequency Stability	0.001%
Temperature Range	-30°C to +50°C
Antenna Impedance	50 Ohms
Antenna Connectors	Standard SO-239 type
Input Voltage	13.8V DC
Size	7 3/4" (W) x 2 7/8" (H) x 10 1/4" (D)
Weight	6 lb.

TRANSMITTER

RF Power Output	AM/FM: 2W~50W USB/LSB: 150W PEP
Spurious Emission	-50 dB
Unwanted Sideband	-50 dB
Audio Distortion	10%
Frequency Response	300 to 2500Hz
Microphone	Dynamic
Clarifier Range	Coarse: ± 6.0KHz, Fine: ± 1.0KHz

RECEIVER

Sensitivity for 10 dB (S+N)/N	AM: < 0.5 μV; USB/LSB: < 0.25 μV
Sensitivity for 12 dB (S+N)/N	FM: < 0.25 μV
Squelch Sensitivity	< 0.5 uV
Selectivity	-55 DB
Image Rejection	-50 dB
AGC Figure of Merit	100 mV for 10dB Change in Audio Output
Audio Power Output	2.5W @ 10% Distortion
Audio Response	300 to 2500 Hz

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

CHAPTER 2 INSTALLATION

INSTALLING THE RADIO

Choose a convenient location for operation that does not interfere with driver or passenger. This radio is supplied with a universal mounting bracket. When mounting the bracket and radio to your car, make sure it is mechanically strong. Also, provide a good electrical grounding connection to the chassis of vehicle. Proceed as follows to install the radio.

1. Locate a convenient area in your vehicle for the installation of the radio. Hold the mounting bracket with the radio in the location where the radio is to be installed. Make sure nothing will interfere with either the radio or the mounting bolts. Mark and then drill holes for the mounting bracket.

2. Most radio antennas come equipped with a PL-259 plug. Connect this plug to the ANT. Jack in the rear of the radio.

3. Extending from the rear of the radio is a fused red and black wire for the DC connections to the vehicle's electrical system. For best performance, it is strongly recommended that the red lead be taken directly to the positive terminal on the vehicle's battery and the black lead be connected to the nearest chassis ground. (Note: ***This radio is designed for vehicles with negative ground systems***.)

   Connections should be made using appropriate "crimp on" plugs of a size large enough to make good contact with the bolt used to fasten to the battery and the chassis ground. It is a good safety idea to install a second fuse that would provide protection in case the red wire was to "fray" or get pinched and short to the body of the vehicle, somewhere between the battery and the radio.

   High power radios such as this one require large DC current flow when in the TX mode. Poor power connections cause supply voltage drops that can substantially decrease the performance of your radio. A good DC connection is probably one of the most important things for getting the best transmitter performance and in some cases, least receiver noise.

4. Mount the microphone bracket near the radio in an easily accessible spot using the two screws provided.

IGNITION NOISE INTERFERENCE

With weak signals, you may experience interference of the signal by background noise. This radio has NB and ANL circuits which will help reduce background noise from sources such as your ignition system. However, background electrical noise may come from several sources and all noise may not be eliminated. With extremely weak signals, you can operate this radio with the engine turned off, which should improve reception. If the ignition noise level is too high to allow proper operation under most conditions, you should have your installation of the radio checked by a qualified technician.

ANTENNA

This radio has a jack in the rear for a standard PL-259 antenna plug. If you are looking for the most range for your transmission, use a vertically polarized, quarter-wave length antenna. If antenna height is a problem, you may use a shorter, loaded-type whip antenna although you can expect some loss of transmission range.

To improve performance, your antenna should be matched to your radio. Your antenna can be adjusted so that it matches your radio.

EXTERNAL SPEAKER

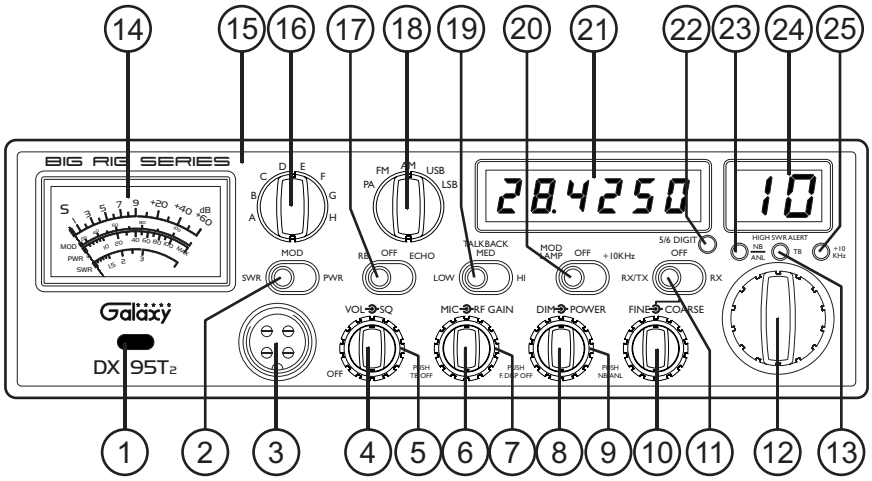
The external speaker jack (EXT SP.) on the rear panel is used for remote receiver monitoring. The external speaker should have 8 ohms impedance and be able to handle at least 4 watts. When the external speaker is plugged in, the internal speaker is disconnected.

PUBLIC ADDRESS

To use the Public Address (PA) function, first connect an external speaker to the PA. SP. Jack on the rear of the radio. See the above specifications for a proper external speaker. Keep the speaker away from the microphone to avoid acoustic feedback.

CHAPTER 3 OPERATION

CONTROL FUNCTIONS
FRONT PANEL



1. **MOD LAMP:** When switched on, this Modulation indicator will illuminate as you speak into the microphone. When you speak louder, it appears bright because it is on nearly 100 percent of the time and when you speak softer, it appears dimmer because it is flickering on and off. It does not glow at all when there is no modulation. This lamp operates in all modes.

2. **SWR/MOD/PWR SWITCH:** This switch controls the function of the meter during the transmit mode. In the “SWR” position, the meter indicates the Standing Wave Ratio (SWR) of your an tenna (accurate at maximum power output). There are no adjustments because the SWR circuit in this radio calibrates itself automatically. When the switch is in the “MOD" position, the green scale on the meter indicates your percentage of modulation in the AM mode only. It is most accurate when testing at maximum power output. When this switch is in “PWR” position, the meter indicates your power output.

3. **MICROPHONE JACK:** Used to connect microphone.

4. **ON/OFF VOLUME CONTROL:** This knob controls the volume and power to the radio. To turn radio on, rotate the knob clockwise. Turning the knob further will increase the volume of the receiver.

5. **SQUELCH CONTROL:** This knob is used to eliminate background noise being heard through the receiver, which can be disturbing when no transmissions are being heard through the receiver. To use this feature, turn the knob fully counterclockwise and then turn clockwise slowly until the background noise is just eliminated. Further clockwise rotation will increase the threshold level that a signal must overcome in order to be heard. Only strong signals will be heard at a maximum clockwise setting.

6. **MIC GAIN CONTROL/PUSH TB OFF SWITCH:** Adjusts the microphone gain in transmit and PA modes. This controls the gain to the extent that full talk power is available several inches away from the microphone. In the Public Address (PA) mode, the control functions as the volume control. Pushing this knob turns the Talkback circuit on and off.

7. **RF GAIN CONTROL:** Adjust this knob for desired level of incoming signal.

8. **DIM CONTROL/PUSH FREQUENCY DISPLAY OFF SWITCH:** This knob controls the level of brightness for the meter lamp, faceplate, frequency display and channel display. Pushing this knob turns the Frequency Display on and off

9. **RF POWER CONTROL:** This control allows the user to adjust RF power output.

10. **COARSE/FINE CONTROL/PUSH NB-ANL OFF SWITCH:** Allows variation of the radio operating frequencies above and below the channel frequency. Although this control is intended primarily to tune in SSB signals, it may be used to optimize AM/FM signals. Pushing this knob turns the Noise Blanker (NB) / Automatic Noise Limiter (ANL) circuit on and off. The Noise Blanker (NB) is very effective in eliminating repetitive impulse noise such as ignition interference.

11. **RX/TX/OFF/RX SWITCH:** When in the RX/TX position, the two clarifiers (Coarse and Fine) function on both receive and transmit. When the switch is in the RX position, the Fine clarifier functions on receive only and the Coarse clarifier still functions on both receive and transmit. When in the OFF position, both clarifiers have no effect on the frequency.

12. **CHANNEL SELECTOR:** This control is used to select the desired transmit and receive channel.

13. **TB LED:** This LED lights green when the TB function is on.

WARRANTY

This radio is covered by a two year Limited parts and labor warranty.

※ "Limited" means that we will repair problems caused by factory defects or normal use at no charge.

※ Before returning a radio to us for warranty service, please call our Service Department for a Repair Authorization Number (RAN). This RAN must be written below your return address on the outside of the shipping box. Boxes, which arrive without an RAN, will be refused, and the shipping company will return the unopened box to you. Be sure to have a pen and paper ready along with the serial number of your radio before calling. We will give you the RAN and our shipping address over the phone. The telephone number of the Service Department is (760) 480-8800, and we suggest calling between 10:00 AM and 4:00 PM Pacific Time.

※ Please include a note with a detailed description of the symptoms. This is important because it will help the technician who works on your radio to locate your problem. Intermittent problems are easily overlooked, so be sure to give as much detail as possible in your note. Also, please include your daytime telephone number in case our technicians have any additional questions.

※ Do not send your power cord or microphone unless we ask for these items during our telephone conversation.

※ You are responsible for getting the radio safely to us. (We suggest using United Parcel Service.) You must pay to ship the radio to us, and we will pay to ship the radio back to you. Since we use UPS and they do not ship to Post Offices boxes, please provide us with a street address for the return of your radio.

※ We will repair and return your radio as soon as we can. We appreciate your choosing a Galaxy radio and we want you to be on the air as much as possible!

Be sure to visit our web site at

www.GalaxyRadios.com

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