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APPENDIX H:

PRELIMINARY USER'S MANUAL

EN/LZT 123 5652/1 R1A

Operator's Manual

EDACS 300P
System/Scan Portable
Radio



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User Interface

This manual describes the basic functions and operation of the EDACS 300P System/Scan portable radio. For more detailed information about the features and operation, refer to the appropriate EDACS 300P Maintenance Manual or contact your System Administrator.

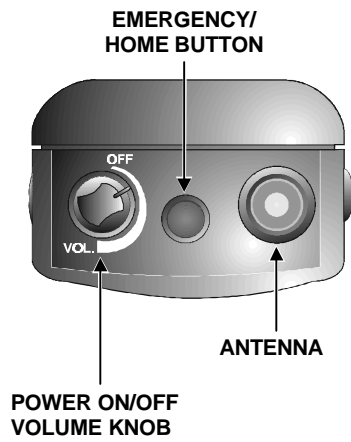


Figure 1. EDACS 300P Top View



Figure 2. EDACS 300P System Model



Figure 3. EDACS 300P Scan Model

Basic Operation

Locking/Unlocking Keypad (System Model)

1. Press and hold the **C/M** key.
2. Press and release the **LOCK** key. Then release the **C/M** key.

Selecting System

1. Press and release the **C/M** key. Then use the **▲** and **▶** keys to select the desired system.
2. The SYS field displays the current System selected.

Selecting Group/Channel

1. Press the **▲** and **▶** keys to access the desired group/channel.

Enabling/Disabling Scan

1. Press and release the **SCN** key to toggle Scan ON/OFF. "**SCN**" is displayed when Scan is enabled.

Modifying Scan List

1. Select desired Group/Channel to be added/deleted. If Group/Channel is currently in Scan list, "**S**" is displayed.
2. Press and hold the **C/M** key.
3. Press and release the **SCN** key. Then release the **C/M** key.

4. If selected Group/Channel was not in Scan list, it will be added. If selected Group/Channel was in Scan list, it will be deleted.

Home/Emergency Key Definition

Pressing the red Home/Emergency button will perform one of the four operations below, depending upon how the radio was programmed.

1. Radio will switch to the programmed home System and/or Group, and send an emergency transmission.
2. Radio will send an emergency transmission on the current System/Group.
3. Radio will switch to the home System and/or Group.
4. Button is not active.

Declaring Emergency

1. Press and hold the red Emergency/Home button (the length of time is programmable; check with the System Administrator).
2. If programmed, an “E” is displayed in the SYS field and/or an alert tone sounds.
3. Press PTT button to transmit your message.
4. Release PTT button when transmission is complete.

Trunked Mode Operation

Transmitting a Call

Group Call

1. Select desired System and Group.
2. Ensure that no one is transmitting on selected Group by observing display for absence of "**BSY**" indicator.
3. Press and hold PTT button.
4. When "**TX**" is displayed, speak into microphone.
5. Release PTT button when transmission is complete. Wait for reply.

Individual Call

1. Press the **SPC** key. "**S**" and "**PC**" will be displayed.
2. The SYS field displays "**SP**". The GRP field displays the last accessed special call number from the pre-programmed list.
3. Scan Model: Press the or keys to scroll through the special call list until the desired number is displayed.
System Model: Press the or keys to scroll through the special call list until the desired number is displayed; **or**
Enter the ID number of the radio to be called.
(To recall the last individual number entered, press and hold **C/M** and then press the **#/RCL** key.)
4. Press and hold PTT button to initiate call.
5. When "**TX**" is displayed, speak into microphone.

6. Release PTT button when transmission is complete. Wait for reply.
7. When call is complete, double click the **C/M** key to exit Special Call mode.

Phone Call

1. Press the **SPC** key. “**S**” and “**PC**” will be displayed.
2. The SYS field displays “**SP**”. The GRP field displays the last accessed special call number from the pre-programmed list.
3. Scan Mode: Press the or keys to scroll through the special call list until the desired number is displayed.
System Mode: Press the or keys to scroll through the special call list until the desired number is displayed; **or**
Enter the telephone number to be called. Complete the phone number entry by pressing the * key.
(To recall the last phone number entered, press and hold **C/M** and then press the **#/RCL** key.)
4. Press and release PTT button to initiate call.
5. “**BSY**” is displayed and DTMF tones are sent.
6. When the receiving party answers the call, press and hold PTT button and speak into microphone.
7. Release PTT button when transmission is complete. Wait for reply.
8. When call is complete, press the **C/M** key twice to exit Special Call mode.

Receiving a Call

1. Turn radio on and select desired System and Group;
or
Select desired System and then turn Scan ON (if desired Group is in Scan List).
2. Radio is now ready to receive calls.
3. When call is received, radio unscelches on assigned channel and “**BSY**” is displayed. Depending upon the programming of the radio, a tone may sound, indicating the type of call received.
4. Group Call: If programmed, the Group ID of the caller will be displayed in the SYS and GRP fields.
Individual Call: If programmed, the ID of the caller (or just “**id**”) will be displayed in the SYS and GRP fields.
Phone Call: “**ph**” will be displayed in the GRP field.
Emergency Call: “**E**” and the System number will blink alternately in the SYS field.
5. Adjust the volume as necessary.
6. Respond by pressing PTT button and speaking into microphone.

Storing/Recalling Numbers (System Model)

Storing Individual and Phone Numbers

1. Press the **SPC** key.
2. “**S**” and “**PC**” will be displayed.
3. The SYS field displays “**SP**”. The GRP field displays the last accessed special call number from the pre-programmed list.
4. Enter the ID number or phone number to be stored. (To recall the last number manually entered from the keypad, press and hold **C/M** and then press the **#/RCL** key.)
5. Complete the entry by pressing the **#** key for an individual number or the ***** key for a phone number.
6. Enter a digit from 0 to 9 to select a storage location.
7. Press and hold the **C/M** key and then press the ***/STO** key to complete the storage procedure.
8. Press the **C/M** key twice to exit Special Call mode

Recalling Stored Individual and Phone Numbers

1. Press the **#** key for an individual call or the ***** key for a phone call.
2. Enter the desired storage location number (0-9).
3. Press and hold the **C/M** key and then press the **#/RCL** key. The number will be displayed in the GRP field.
4. Individual Call: Press and hold the PTT button to initiate the call. When signaling is complete, “**TX**”

and "**BSY**" are displayed and the Call Originate tone sounds. Speak into the microphone.

Phone Call: Press and release the PTT button to initiate the call. When signaling is complete, "**BSY**" is displayed and DTMF tones are sent. When the receiving party answers the call, press and hold the PTT button and speak into microphone.

5. Release the PTT button when transmission is complete. Wait for reply.
6. When call is complete, press the **C/M** key twice to exit Special Call mode.

Conventional Operation

Transmitting a Call

1. Turn radio on and select desired System and Channel.
2. Ensure that no one is transmitting on selected Channel by pressing the **C/M** key twice (to monitor channel) and/or observing display for absence of "**BSY**" indicator.
3. Press and hold PTT button and speak into the microphone.
4. Release PTT button when transmission is complete. Wait for reply.

Receiving a Call

1. Turn radio on and select desired System and Channel;
or
Select desired System and then turn Scan ON (if desired Channel is in Scan List).
2. Radio is now ready to receive calls.
3. Press the **C/M** key twice to disable squelch and monitor channel. Adjust volume to desired level.
4. When radio receives a call, radio is unsquelched and message is heard.

Programmable Alert Tones

Name	Tone	Description
Power-Up (B)	one	Radio has passed self-test upon power-up
Call Originate (T)	one short	OK to talk; radio has acquired channel
Call Received (T)	one (Group) one high, one low (Indiv.)	Call has been received
Call Queued (B)	one short high-pitched	Call has been placed in queue for processing
Autokey (B)	one long beep	Queued call received channel assignment
System Busy (T)	three short medium-pitched	System busy, all channels busy, or receiving party engaged in call
Out of Range/ System Inoperative (T)	one low-pitched	Radio out of range of repeater, or radio inoperative
Call Denied (B)	one low-pitched	Radio is not authorized on the system or group
Carrier Control Timer (B)	pulsed	PTT pressed for pre-programmed length of time. Release and re-key PTT.
Low Battery (B)	one low-pitched; 130 sec intervals	Low battery; needs charging

(T) = trunked mode only (B) = both trunked and conventional modes

Error Messages

- E3** If at anytime the Synthesizer is unable to load and lock on the channel properly, an "**E3**" message will be displayed in the SYS field and the GRP field will be blanked. If the "**E3**" message is displayed on all Systems, the radio has failed or has not been programmed properly. The radio's buttons and keys will still operate with an "**E3**" message displayed.
- E9** An "**E9**" message indicates that the Personality has not been programmed into the radio.

Changing the Battery Pack

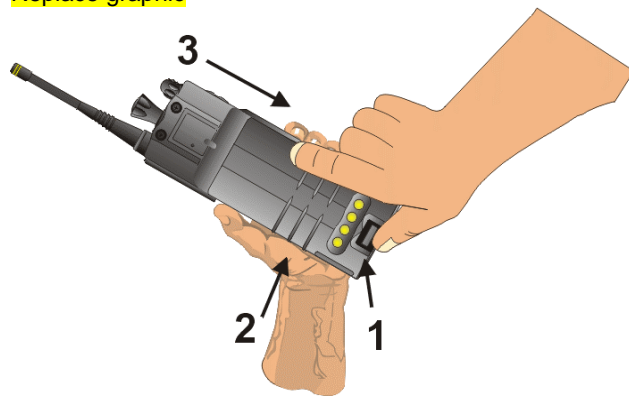
When **BT** is displayed, or the display remains blank, the battery is low and needs charging.

Removing the Battery Pack

Make sure the power to the radio is turned OFF.

1. Locate the latch on the bottom of the radio. Press and hold the latch toward the back of the radio while sliding the battery towards the bottom of the radio with your other hand.
2. Remove the battery pack from the radio.

Replace graphic

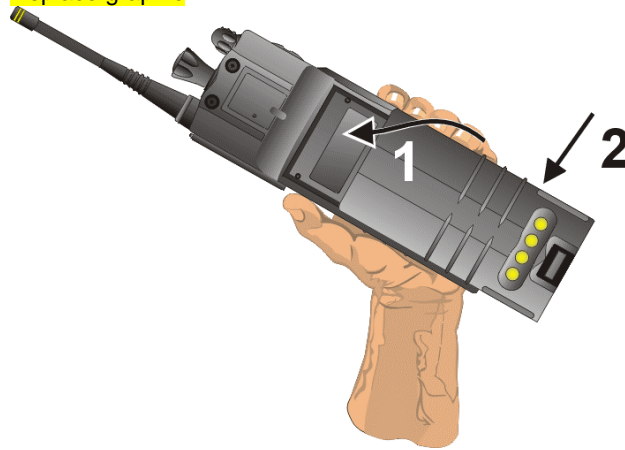


Attaching the Battery Pack

Make sure the power to the radio is turned OFF.

1. Align the tabs on the back of the radio with the slots on the battery pack.
2. Slide the battery pack towards the top of the radio until it clicks into place.
3. Verify that the battery pack is properly latched to the radio.

Replace graphic



Operating Rules and Regulations

Two-way FM radio systems must be operated in accordance with the rules and regulations of the Federal Communications Commission (FCC). As an operator of two-way radio equipment, you must be thoroughly familiar with the rules that apply to your particular type of radio operation. Following these rules will help eliminate confusion and will assure the most efficient use of existing radio channels. This will provide a smooth operating radio network.

When using the radio, remember these rules:

1. It is a violation of FCC rules to interrupt any distress or emergency message. As the radio operates in much the same way as a telephone "party line", always listen and/or observe the absence of the "**BSY**" display to make sure that the line is clear before sending any messages. If someone is sending an emergency message, such as reporting a fire or asking for help in an accident, **KEEP OFF THE AIR!** Emergency calls have priority over all other messages.
2. Use of profane or obscene language is prohibited by Federal Law.
3. It is against the law to send false call letters or a false distress or emergency message.

4. The FCC requires that conversations be brief and confined to business. To save time, use coded messages whenever possible.
5. Using the radio to send personal messages (except in an emergency) is a violation of FCC rules. Send only those messages essential for the business operation.
6. It is against the Federal law to repeat or otherwise make known anything overheard on the radio. Conversations between others sharing your channel must be regarded as confidential.

Intrinsically Safe Usage

Selected portable radios with appropriate factory installed Options are certified as Intrinsically Safe by the Factory Mutual Research Corporation.

TBD

Operating Tips

The following conditions tend to reduce the effective range of two-way radios and should be avoided whenever possible.

- Operating the radio in low terrain areas or while under power lines or bridges.
- Operating the radio inside of a vehicle or inside metal or steel framed building unless using an outside antenna.

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