# **Mobile Communications**



C3<sup>™</sup> Series Console EDACS<sup>™</sup>

**Operator's Manual** 

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# C3 SERIES CONSOLES OPERATOR'S MANUAL HISTORY AND CHANGE INSTRUCTIONS

# **MANUAL HISTORY**

| CHANGE<br>NUMBER  | CHANGE DATE | CHANGE DESCRIPTION |
|-------------------|-------------|--------------------|
| Original<br>issue |             |                    |
|                   |             |                    |
|                   |             |                    |

# **CHANGE INSTRUCTIONS**

Add and remove pages as indicated.

| CHANGE<br>NUMBER | PAGES REMOVED | PAGES ADDED |  |  |  |  |
|------------------|---------------|-------------|--|--|--|--|
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |
|                  |               |             |  |  |  |  |

The **GE C3™ Series Dispatch Center** console has been designed for flexibility. The console may be adapted to a variety of communication needs through additional modules and features. A multiposition console is shown in *Figure 1-1*. The console operator may:

- Initiate or monitor communications between radio units.
- Initiate patches and coordinate emergency activities.

This manual is composed of five sections. The contents of the sections are as follows:

- SECTION 1 Introduction briefly describes the GE C3 Dispatch Center Console and lists the contents of the manual.
- SECTION 2 Controls, Indicators, and Displays identifies all operator controls, indicators, and displays on the console.
- SECTION 3 Operator-Initiated Actions explains how the operator may initiate an action (such as placing a call or setting up a patch) using the console. All operating procedures where the operator initiates (rather than reacts to) an action are covered in this section.
- **SECTION 4** Operator Event Responses explains how the operator can respond to operating events, such as an incoming radio or intercom call. Procedures in this section cover how to react, rather than how to initiate a console operation.
- **SECTION 5** Operating Problems possible operational problems with the console are covered in this section. How to identify operational problems, and references to additional information.

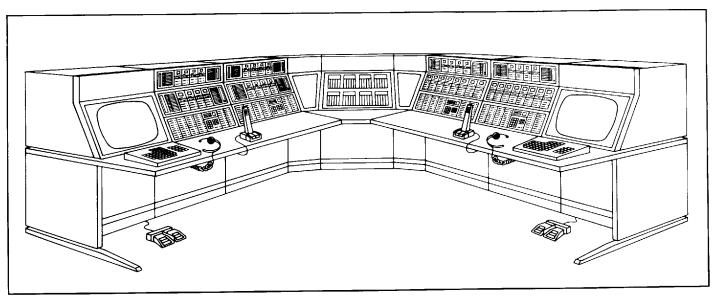


FIGURE 1-1. SEVEN-BAY, TWO-POSITION CONSOLE

# **GENERAL**

This section provides information necessary to understand and operate the C3 Console. You should become thoroughly familiar with the keys and indicators described, and the operating instructions, before attempting to use the equipment

Table 2-1 lists the console controls, a brief description, and the page reference where additional information may be found. Use this table when you need to quickly locate information on a console control or as a quick reference guide.

# **TABLE 2-1. CONSOLE CONTROLS**

| MODULES AND PRIMARY CONTROL NAMES | PAGE<br>NUMBER | DESCRIPTION   |  |
|-----------------------------------|----------------|---|--|
| RADIO CONT                        | 2-5            | Mutes audio coming from   |  |
| MICTE                             | <b>2-</b> 5    | any Group or Channel.   |  |
| SELECT                            | 2-5            | Selects Group or Channel for monitoring or transmit.                                      |  |
| VOL                               | 2-5            | Adjusts received volume associated with a specific Group or Channel.                      |  |
| TRANSMIT (Instant)                | 2-5            | Controls transmit to<br>Group or Channel  |  |
| <b>DEDICATED S</b>                | SWITCH         | ES  |  |
| FREQUENCY                         | 2-6            | Controls the transmit and receive frequencies of conventional base stations.              |  |
| REPEAT<br>DISABLE                 | 2-6            | Enables or disables a remote repeater in a conventional system.                           |  |
| REMOTE<br>DISABLE                 | 2-6            | Disconnects or connects a remote control unit.  |  |
| SWITCH MOD                        | ULE            |   |  |
| PA                                | 2-6            | Used to transmit to a customer-supplied public address system.                            |  |
| SITE                              | 2-6            | Used to change the transmit site.   |  |
| ALL MUTE                          | 2-7            | Temporarily reduces the volume level of the unselect speaker.                             |  |
| PRIORITY                          | 2-7            | Allows supervisory personnel to override a group or channel in use by another dispatcher. |  |
| AUX                               | 2-7            | Used to activate a customer-supplied auxiliary function.                                  |  |

| MODULES AND PRIMARY CONTROL NAMES | PAGE<br>NUMBER | DESCRIPTION  |  |
|-----------------------------------|----------------|--|--|
| INTERCOM                          | 2-7            | Used to activate the intercom function.                                |  |
| INTERCOM<br>TX                    | 2-7            | Used to transmit through the intercom.                                 |  |
| SIM-SEL                           | 2-7            | Activates the non-memory simul-select function.                        |  |
| SIM-SEL #                         | 2-7            | Activates a stored simul-<br>select function.                          |  |
| SIM-SEL # TX                      | 2-8            | Starts transmission to an active or inactive simul-select.             |  |
| PATCH                             | 2-8            | Activates the patch function.  |  |
| PATCH #                           | 2-8            | Activates a stored patch function.                                     |  |
| PATCH # TX                        | 2-8            | Starts transmission (instant transmit) to an active or inactive patch. |  |
| ALERT #                           | 2-8            | Activates alert tone to be sent before a message.                      |  |
| CONSOLE<br>DISABLE                | 2-8            | Allows supervisory personnel to disconnect another console.            |  |
| CONSOLE<br>ENABLE                 | 2-8            | Allows supervisory personnel to enable another console                 |  |
| CHIME                             | 2-9            | Used to reduce the volume of the chime.                                |  |
| CONSOLE #<br>KEY                  | 2-9            | Activates the console hotline intercom.                                |  |
| KEYPAD MOD                        | DULE           |  |  |
| SCROLL                            | 2-10           | Used when changing a group on a Radio Control module.                  |  |
| CLEAR                             | 2-10           | Used to clear keypad entries and simul-select and patch memories.      |  |

# **GENERAL** continued

## TABLE 2-1. CONSOLE CONTROLS continued

| MODULES AND PRIMARY CONTROL NAMES | PAGE<br>NUMBER | DESCRIPTION   |  |  |  |
|-----------------------------------|----------------|---|--|--|--|
| RADIO CONTROL MODULES             |                |   |  |  |  |
| TEST                              | 2-10           | Allows entering the test mode.  |  |  |  |
| PROGRAM                           | 2-10           | Initiates a group change on a Radio Control module.                           |  |  |  |
| ENTER                             | 2-10           | Enters the numbers typed through the keypad and confirms programming entries. |  |  |  |
| TRANSMIT                          | 2-10           | A common Push-To-Talk (PTT) bar.  |  |  |  |
| SPEAKER MC                        | DULES          |   |  |  |  |
| VOL                               | 2-10           | Sets the volume coming from the speaker.                                      |  |  |  |

# The basic modules which make up a console control panel are:

- Radio Control modules
- Switch modules
- Keypad modules
- Speaker modules

The position and combination of modules vary depending on communication needs. A typical control panel is shown in *Figure 2-1*, your console may be different. Each module serves a specific purpose:

- Radio Control modules are used to communicate with fleets, subfleets, and agencies on trunked systems, and for communications on conventional systems.
- Switch modules are used for special features.
- The Keypad module is used for telephone, intercom, and special functions.
- Speaker modules allow you to hear radio transmissions made over the system.

#### **CONTROL MODULES**

There are two types of Radio Control modules:

- Display Radio Control modules used to display programmable identifications in communications to groups on a trunked system or channels on conventional systems.
- Radio Control modules used in communications over channels in conventional (non-trunked) systems.

The keys on the Radio Control modules are color  $\operatorname{cod} \varepsilon$  as follows:

- GREEN keys for SELECT functions
- YELLOW keys for MUTE functions
- RED keys for TRANSMIT functions
- WHITE keys for optional SWITCH functions

Each Radio Control module has six switches (*Figure 2-2*). The SELECT, MUTE, and TRANSMIT switches are standard and occupy three positions. Remaining positions may be filled with optional switches. A description of the standard controls, indicators, and displays are found in *Table 2-2*.

The remainder of this section explains the various optional switches that may be added to Radio Control modules, along with additional features found on the console. Actual switches on your console depend on options selected at the time the order was placed.

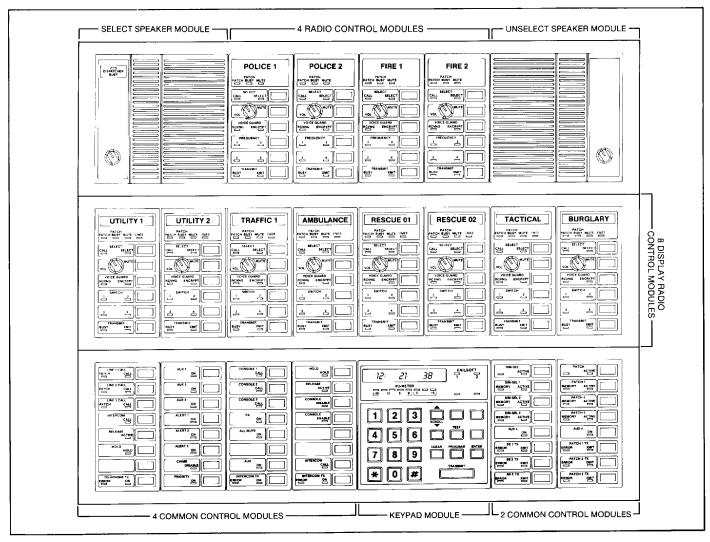
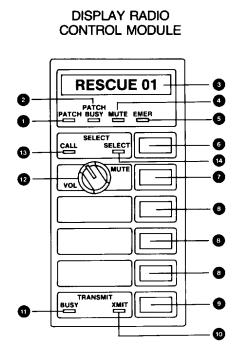


FIGURE 2-1. TYPICAL CONTROL PANEL



POLICE 1

PATCH BUSY MUTE

CALL SELECT

WOL

TRANSMIT
BUSY XMIT

TRANSMIT
BUSY XMIT
BU

**NON-DISPLAY** 

FIGURE 2-2. RADIO CONTROL MODULES

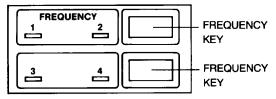
# TABLE 2-2. MODULE CONTROLS, INDICATORS, AND DISPLAYS

| NAME               | TYPE              | COLOR  | FIGURE 2-2<br>REFERENCE | DESCRIPTION  |  |
|--------------------|-------------------|--------|-------------------------|--|--|
| Display            | Alphanumeric      |        | 3                       | An eight-character alphanumeric display at the top of the module which shows the name of the group (trunked systems) or channel (conventional systems). When the module is selected (SELECT key pressed) and a call is received, the display will change to the NAME of the radio whose call you are receiving.  |  |
| Label              | Fixed             |        | 15                      | A channel label at the top of module. This label shows the name of the channel (conventional systems). The label is not changeable without replacement.  |  |
| PATCH              | LED Indicator     | Green  | 1                       | Lights when the Group or Channel is involved in a patch.   |  |
| PATCH BUSY         | LED Indicator     | Yellow | 2                       | Lights when a dispatcher at another console (multiple-console site) has involved the Group or Channel in a patch.  |  |
| MUTE               | LED Indicator     | Green  | 4                       | Lights when the MUTE key has been pressed.   |  |
| MUTE               | Pushbutton<br>Key | Yellow | 7                       | An alternate-action key on Radio Control modules used to mute audio coming from any Group or Channel.  |  |
| EMER               | LED Indicator     | Red    | 5                       | Lights when the Group is involved in an emergency activated by a trunked mobile or portable radio.   |  |
| SELECT             | LED Indicator     | Green  | 14                      | Lights when the module is selected (SELECT key press<br>Received audio associated with the Group or Channel was be heard through the Select speaker.   |  |
| CALL               | LED Indicator     | Red    | 13                      | Flashes or remains steady to signal an incoming call. When flashing, it signals a call from a selected Group of Channel (SELECT key pressed) on your console. When continually on, it indicates the call is from a Group whice selected by another console within a multiple-console signal.   |  |
| SELECT             | Pushbutton<br>Key | Green  | 6                       | An alternate-action key used to select the Radio Control module. Use SELECT to monitor and transmit to a Group or Channel. When a module is selected, you will hear received audio associated with the module through the Select speaker. When a module is not selected, you will hear received audio associated with the module through the Unselect speaker. |  |
| VOL                | Control Knob      | Black  | 12                      | Used to adjust the received volume associated with a specific Group or Channel.  |  |
| BUSY               | LED Indicator     | Yellow | 11                      | Lights when a dispatcher at another console is transmitting to the Group or Channel.   |  |
| TRANSMIT (Instant) | Pushbutton<br>Key | Red    | 9                       | Press to transmit to the Group or Channel. The Group or Channel does not have to be selected.  |  |
| XMIT               | LED Indicator     | Red    | 10                      | Lights when a transmission is being made to the Group or Channel.  |  |

# **DEDICATED SWITCHES**

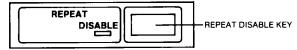
The optional switch positions in each Radio Control module may be filled by any of the dedicated switches listed below. Each switch has a key to operate the switch and one or two status indicators. Refer to **Section III** for operating instructions.

# **FREQUENCY**



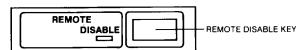
The FREQUENCY switch (conventional systems only) controls the transmit and receive frequencies (channels) of conventional base stations (Maximum: 4 frequencies). The # indicator (1, 2, 3, or 4) lights when the frequency is being used for transmit and receive operations. Only one Frequency indicator will be on at any time.

#### REPEAT DISABLE SWITCH



The REPEAT DISABLE switch enables or disables a remote repeater in a conventional system. The DISABLE indicator lights when a repeater has been disabled. When the repeater is disabled, transmissions will not be rebroadcast but they will be heard at the console.

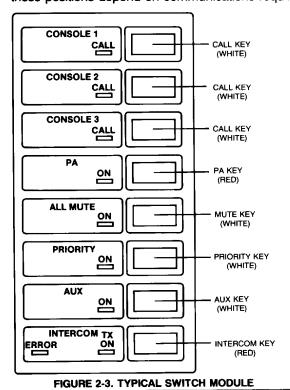
#### REMOTE DISABLE SWITCH



The REMOTE key (white) is used to disconnect or connect a remote control unit. The DISABLE indicator lights when a remote control unit has been disconnected.

# **SWITCH MODULE**

The typical Switch module shown in *Figure 2-3* contains eight switch positions. Each switch has a key to enable or disable the function and one or two indicators to show the status of the switch (e.g., the PA switch has a PA key and one indicator). Switch module functions are common to the operations of the console and are not limited to a Group or Channel. The switches that fill these positions depend on communications requirements.



#### PA SWITCH



**PA KEY** Used to transmit to a customer-supplied public address system.

ON Lights when the PA key is pressed. INDICATOR

## SITE SWITCH



SITE KEY Used to change the transmit site (main site to standby site).

MAIN Lights when the main transmit site is INDICATOR being used

STANDBY Lights when the standby transmit site is being used.

# **SWITCH MODULE** continued

# **ALL MUTE**



ALL MUTE KEY Used to temporarily reduce the volume level of the Unselect speaker. Once the ALL MUTE key is pressed the Unselect volume will be reduced for up to 30 seconds, or until the ALL MUTE key is pressed again.

ON INDICATOR

Lights when the ALL MUTE function is active.

#### **PRIORITY**



PRIORITY KEY Allows supervisory personnel to override a group or channel in use by another dispatcher in the system. The interrupted dispatcher will hear a side-tone when the Group or Channel is being overridden.

 $\mbox{ON}$  Lights when the PRIORITY key is INDICATOR pressed.

#### **AUX**



AUX # KEY Used to activate a customer-supplied auxiliary function (such as activating a door opener). The # is the auxiliary function key number.

**ON** Lights when the auxiliary function is **INDICATOR** active.

## INTERCOM

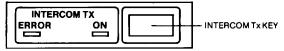


INTERCOM KEY Used to activate the intercom function. Press and release to activate the intercom.

CALL INDICATOR

Lights when the intercom is active.

#### INTERCOM TX



INTERCOM TX KEY Used to transmit through the intercom when not using a headset. Press and hold while speaking through the microphone to send a message over the intercom only. Release to listen to a reply over the intercom. Headset operation does not use this key.

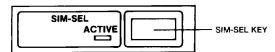
**ERROR** INDICATOR

Lights if the intercom call is not in progress.

ON L

Lights when the intercom is active.

#### SIM-SEL

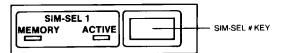


SIM-SEL KEY Activates the non-memory simul-select function. When pressed, Radio Control modules may be selected for inclusion in the simul-select.

ACTIVE INDICATOR

Lights when non-memory simul-select is active.

#### SIM-SEL #



SIM-SEL # KEY Activates a stored simul-select function. When pressed, group and channel modules may be selected for inclusion in the simul-select and stored for later retrieval. The key also recalls a stored simul-select. The # stands for the number of the SIM-SEL key.

MEMORY INDICATOR

Lights when a simul-select has been stored in memory.

ACTIVE INDICATOR

Lights when a simul-select is active. Blinks when simul-select cannot be made.

# SWITCH MODULE continued

#### SIM-SEL # TX



SIM-SEL # TX KEY Starts transmission (instant transmit) to an active or inactive simul-select with a corresponding key number. The # is the number of the simul-select key.

ERROR INDICATOR

Lights if a transmission cannot be made to the simul-select or if simul-select has not been set up.

XMIT

Lights when a transmission is being made to the active simul-select.

#### **PATCH**



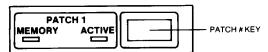
PATCH KEY

Activates the patch function. When pressed, group and channel modules may be selected for inclusion in a patch.

ACTIVE INDICATOR

Lights when a patch is active.

#### PATCH #



PATCH # KEY Activates a stored patch function. When pressed, group and channel modules may be selected for inclusion in the patch and stored for later retrieval. The key also recalls a stored patch. The # stands for the number of the PATCH key.

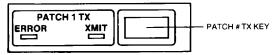
MEMORY INDICATOR

Lights when a patch has been stored in memory.

ACTIVE INDICATOR

Lights when a patch is active.

#### PATCH # TX



PATCH # TX KEY Starts transmission (instant transmit) to an active or inactive patch with a corresponding key number. The # is the number of the patch key.

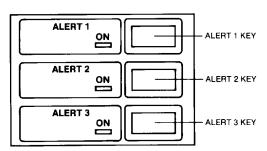
ERROR INDICATOR

Lights if a transmission cannot be made to the patch.

XMIT INDICATOR

Lights when a transmission is being made to the active patch.

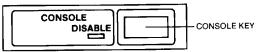
#### **ALERT**



ALERT # KEY Activates alert tone to be sent before a message. The # is the number of the alert tone key. Each key transmits a different tone.

 $\ensuremath{\mathbf{ON}}$  Lights when the ALERT key is pressed.  $\ensuremath{\mathbf{INDICATOR}}$ 

## **CONSOLE DISABLE**



CONSOLE DISABLE KEY Allows supervisory personnel to disconnect another console in the system. Once disabled, the console can be enabled by using the CONSOLE Enable switch. The CONSOLE key is used with the keypad module to disable another console.

DISABLE INDICATOR

Lights when a console is being disabled and flashes if a console cannot be disabled.

# **SWITCH MODULE** continued

## **CONSOLE ENABLE**



CONSOLE ENABLE KEY Allows supervisory personnel to enable a console in the system. The CONSOLE key is used with the keypad module to enable a console.

ENABLE INDICATOR

Lights when a console is being enabled and flashes if a console cannot be enabled.

#### **CHIME**



CHIME KEY Used to reduce the volume of the chime

which signals an incoming intercom or

telephone call.

**DISABLE** Lights when the chime volume is **INDICATOR** lowered.

#### **CONSOLE # KEY**



CONSOLE #
KEY

This key is used with the hotline intercom. Pressing this key dials the corresponding console intercom number.

CALL INDICATOR

Lights when the CONSOLE # key is pressed.

# **KEYPAD MODULE**

The Keypad module contains the clock, VU meter, two indicators (Failsoft 1 and Failsoft 2), telephone keypad, 9 function keys, and a transmit bar. A Keypad module is shown in Figure 2-4.

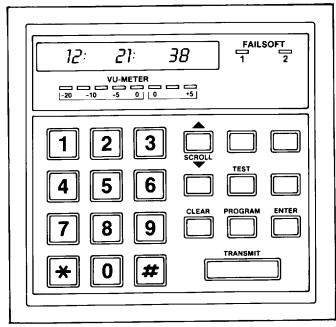


FIGURE 2-4. KEYPAD MODULE

## **CLOCK**

The 12/24 hour clock displays the current time.

#### **VU METER**

The VU meter shows your voice level when transmitting and the select speaker audio level when receiving. Meter indications should stay in the green range when transmitting. Excessive red range readings mean you are either talking too close to the microphone or too loudly.

#### **INDICATORS**

The keypad module has two additional indicators: FAILSOFT 1 and FAILSOFT 2.

FAILSOFT-1 Lights (red) when the site computer fails in a trunked system. Trunking is still operational, however, high level functions such as Simul-Select and patch are not available.

**FAILSOFT-2** Lights (red) when the site computer and other site equipment fails in a trunked system. Trunking is not available in this failsoft mode.

#### TELEPHONE KEYPAD

The telephone keypad has 10 numeric keys (0-9) and two symbol keys (\* and #) that are used to dial telephone, intercom, and individual call numbers.

# **KEYPAD MODULE** continued

SCROLL key Used with PROGRAM key to change a

group on a Display Radio Control

module.

SCROLL<sup>▼</sup> key Used with PROGRAM key to change a

group on a Display Radio Control

module.

Used to clear keypad entries and simul-CLEAR key

select and patch memories.

Allows entering the test mode. TEST kev

**PROGRAM** 

key

Initiates a group change on a Display

Radio Control module.

**ENTER key** 

Enters the numbers typed through the

keypad and confirms programming

entries.

**TRANSMIT** 

A common Push-To-Talk (PTT) bar which functions the same as a transmit bar

> foot switch. When pressed transmissions can be made to all selected groups and

channels.

## SPEAKER MODULES

Two or more speakers (Figure 2-5) are located on each console. In the figure, the Select speaker has the DISPATCHER BUSY indicator and the Unselect speaker has no indicators. Your console may be arranged differently.

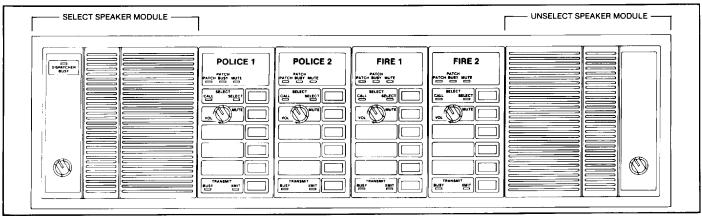


FIGURE 2-5. TYPICAL SPEAKER MODULES

VOL Sets the volume coming from the speaker.

(Volume) control

Select Speaker

Reproduces received audio from the group or channel that is selected

(SELECT key pressed).

Unselect Speaker Reproduces receive audio from Radio Control modules that are not selected.

DISPATCHER **BUSY** 

Indicates the dispatcher is busy with a console operation. Lights when a call is being received through the select speaker, when the console is transmitting, or during a telephone or intercom

call.

# HEADSET

Headset connectors (adapter box under console tabletop) are provided for each dispatch position. When the headset is used, the receive audio on the Select speaker is muted, the console microphone is disabled, and the headset microphone is enabled. Intercom and telephone operation does not require the use of the TX keys when a headset is used. Intercom and telephone headset operation is full-duplex, that is, you can transmit and receive at the same time.

# **FOOT SWITCH**

An optional dual-pedal foot switch is available for the console. The right pedal is for transmit and the left pedal performs the Channel Monitor function on Radio Control modules.

This section explains operator-initiated actions performed on the C3 console. Operator-initiated actions are defined as operations performed as a result of a want or need, such as the need to communicate with an individual unit or group. Operator responses to events, such as a response to an emergency declaration, are covered in section 4.

Basic, frequently used procedures are explained first, followed by the more complex and special features. Throughout this section the terms unselect and select are used. These terms refer to pressing the SELECT key on a particular module.

A table which lists console operations, primary controls, and page references is provided in **Table 3-1**. Use this table when you need to quickly locate information on a desired console operation, or as a reference to remind you of the controls used for different operations.

#### **TABLE 3-1. CONSOLE OPERATIONS**

| DESCRIPTION OF OPERATION  | PAGE<br>NUMBER | OPERATIONAL<br>FUNCTION           | PRIMARY<br>CONTROLS<br>USED IN<br>OPERATION               |
|---|----------------|-----------------------------------|---|
| Module selection  | 3-2            | SELECTING A<br>MODULE             | SELECT  |
| Headset and foot switch operation.  | 3-2            | ACCESSORY<br>OPERATION            |   |
| Basic receive operation.  | 3-2            | RECEIVE                           | VOL   |
| Transmitting on select or unselect modules.   | 3-3            | TRANSMITTING<br>ON THE<br>CONSOLE | SELECT<br>TRANSMIT  |
| Using the Simul-<br>Select feature for<br>"broadcast" type<br>messages.                 | 3-5            | SIMUL-SELECT<br>OPERATION         | SIM-SEL<br>TRANSMIT<br>SELECT                             |
| Placing and answering telephone calls   | 3-7            | TELEPHONE<br>OPERATION            | LINE # CALL TELEPHONE PTT RELEASE KEYPAD MODULE HOLD      |
| Creating, storing,<br>and activating<br>patches between<br>radio groups and<br>channels | 3-10           | PATCH<br>OPERATION                | PATCH<br>SELECT<br>PATCH #<br>PATCH # TX<br>CLEAR         |
| Using intercom functions  | 3-12           | USING THE<br>INTERCOM             | INTERCOM KEYPAD MODULE INTERCOM TX RELEASE HOLD CONSOLE # |

| DESCRIPTION OF OPERATION  | PAGE<br>NUMBER | OPERATIONAL<br>FUNCTION                                 | PRIMARY<br>CONTROLS<br>USED IN<br>OPERATION   |
|---|----------------|---|---|
| Using auxiliary<br>console functions<br>such as muting<br>the speakers and<br>sending alert tones | 3-13           | AUXILIARY<br>FUNCTIONS                                  | MUTE ALL MUTE TRANSMIT ALERT # PA CHIME AUX # FREQUENCY REMOTE MONITOR REPEAT DISABLE |
| Using console functions intended for supervisory personnel.                                       | 3-16           | SUPERVISORY<br>FUNCTIONS                                | CONSOLE KEYPAD MODULE PRIORITY TRANSMIT   |
| How to change the<br>radio group or<br>channel assigned<br>to a Display Radio<br>Control module   | 3-17           | CHANGING THE<br>DISPLAY ON A<br>RADIO CONTROL<br>MODULE | PROGRAM<br>SELECT<br>SCROLL<br>ENTER<br>KEYPAD<br>MODULE                              |

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# **SELECTING A MODULE**

When a Radio Control module is selected, the SELECT indicator is on and audio received will be heard through the Select speaker. When the module is unselected, the audio will be heard through the Unselect speaker and the SELECT indicator will be off.

- Press the SELECT key to select a Group or Channel. The SELECT indicator will light, and audio from the selected Group or Channel will be heard through the Select speaker.
- Press the SELECT key again (or select a new Radio Control module) to unselect the Radio Control module. The SELECT indicator will go off, and audio from the unselected module will be heard through the Unselect speaker.

NOTE: Only one Radio Control module at a time (at each console) will operate in the SELECT mode, unless Simul-Select or patch is active.

# **ACCESSORY OPERATION**

# HEADSET OPERATION

An optional headset is available for use with the console. The headset plugs into a dual-jack interface located below the console tabletop. When the headset is plugged in, the console Select speaker is disconnected and the select speaker audio will be heard through the earpiece. The headset microphone will be active and the console microphone(s) will be disconnected.

#### FOOT SWITCH OPERATION

An optional dual-pedal foot switch may be used with the console. The right foot-switch pedal performs the same function as the TRANSMIT bar (common transmit) on the Keypad module. The left pedal performs the same function as the MONITOR key on a Radio Control module.

# RECEIVE

Receive audio is heard through the console speakers or headset. A selected Group or Channel (SELECT indicator on) will be heard through the select speaker and the unselected Groups or Channels will be heard through the Unselect speaker.

- Selected Groups or Channels are heard through the Select speaker. DISPATCHER BUSY indicator lights when a call is received.
- All other Groups or Channels are heard through the Unselect speaker.

#### **VOLUME ADJUSTMENT**

Each module (Radio Control and Speaker) has a black volume (VOL) control. The Volume control on the Radio Control modules controls the receive audio volume coming from this module. The volume control on each speaker module controls the volume of all receive audio coming through that speaker.

- Radio Control module volume control—sets the level of audio received from the group or channel.
- Unselect speaker module volume control—sets the level of all audio heard over the Unselect speaker (all unselected Groups or Channels).
- Select speaker module volume control—sets volume level of all calls heard over the Select speaker (selected Radio Control module).

# TRANSMITTING ON THE CONSOLE

TRANSMITTING TO A SELECTED CHANNEL OR GROUP (FIGURE 3-1)

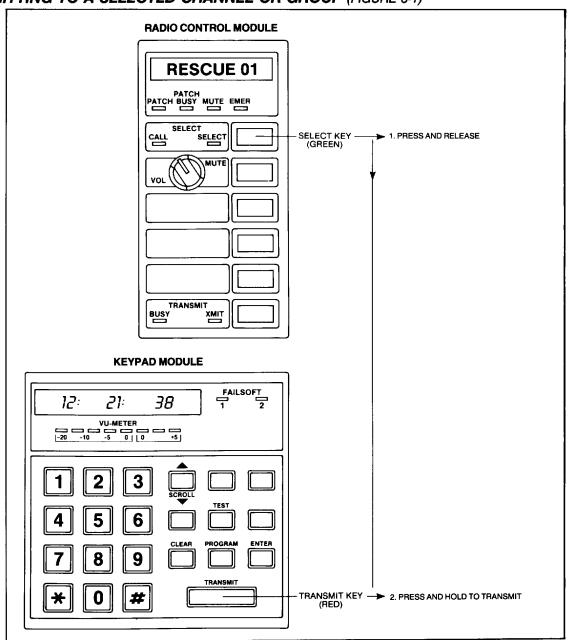


FIGURE 3-1. TRANSMITTING TO A SELECTED CHANNEL OR GROUP

1. Press the SELECT key on the Group or Channel module. The SELECT indicator (green) will light. The SELECT indicator on any previously selected module will go off.

NOTE: If the BUSY indicator is on, the Group or Channel is in use. Wait until the BUSY indicator is off before starting to transmit.

NOTE: IF YOUR CONSOLE IS EQUIPPED WITH CHANNEL GUARD press the MONITOR key (or left foot switch) before transmitting to make sure the channel is not busy. Do not transmit if the channel is in use. See DISABLING CHANNEL GUARD for more information. THIS APPLIES TO CONVENTIONAL CHANNELS ONLY.

# TRANSMITTING ON THE CONSOLE continued

# TRANSMITTING TO A SELECTED CHANNEL OR GROUP (continued)

Press the foot switch or TRANSMIT bar on the keypad module. The XMIT indicator (red) on the Radio Control module and the Speaker module DISPATCHER BUSY indicator will go on.

NOTE: When transmitting to a Group (trunked system) wait for the XMIT indicator before speaking. This allows time for a channel to be assigned.

- 3. Speak into the microphone and make your transmission.
- 4. Release the foot switch or TRANSMIT bar when the transmission is complete (the XMIT indicator will go off). Listen through the Select speaker for any reply.

# TRANSMITTING TO AN UNSELECTED GROUP OR CHANNEL (FIGURE 3-2)

The instant transmit key allows the console operator to make a transmission over unselected Radio Control modules.

NOTE: If the BUSY indicator is on, the Group or Channel is in use. Wait until the BUSY indicator is off before starting to transmit.

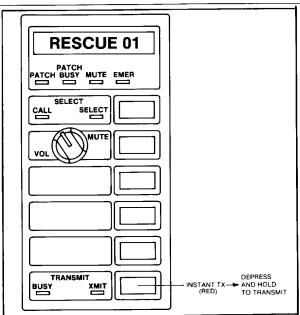


FIGURE 3-2. TRANSMITTING TO AN UNSELECTED GROUP OR CHANNEL

 Press and hold the TRANSMIT key on the Radio Control module. The XMIT indicator (red) will go on and the DISPATCHER BUSY indicator on the Speaker module will go on.

NOTE: When transmitting to a Group (trunked system) wait for the XMIT indicator before speaking. This allows time for a channel to be assigned.

- 2. Speak into the microphone and make your transmission.
- 3. Release the TRANSMIT key when your transmission is completed (the XMIT and DISPATCHER BUSY indicators will go off). Listen through the Unselect speaker for any reply.

# SIMUL-SELECT OPERATION

The Simul-Select function (Figure 3-3) allows the console operator to make transmissions to several Groups and Channels at once. This feature allows "broadcast" messages (i.e., All Points Bulletins) to be sent quickly to a large group of radio users. Simul-Select calls can be stored in memory for quick recall or setup at the time of transmission.

NOTE: Only one Simul-Select can be active at one time.

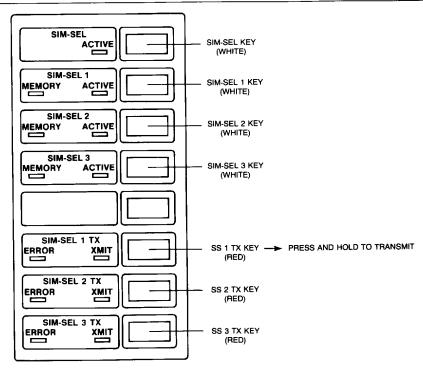


FIGURE 3-3. SIMUL-SELECT SWITCH MODULE

# MAKING A SIMUL-SELECT TRANSMISSION (NON-MEMORY)

- 1. Press and hold the white SIM-SEL key.
- Press and release the green SELECT key on each Radio Control module with which you want to transmit. The green SELECT indicator on each Radio Control module will light as it is added to the Simul-Select.
- 3. Release the SIM-SEL key. The ACTIVE indicator (green) will light if the Simul-Select is set up. The ACTIVE indicator will flash and go off if the Simul-Select cannot be set up.
- Press the foot switch or common TRANSMIT bar and speak into the microphone. The XMIT indicator will light on all modules in the Simul-Select. Your transmission will be received by all radios operating on the Groups or Channels you selected in the Simul-Select.
- 5. Release the foot switch or TRANSMIT bar when the transmission in completed.
- Press and release the SIM-SEL key (or select a single Radio Control module) when all Simul-Select transmissions
  are completed. The ACTIVE indicator and Radio Control module SELECT indicators will go off and the SimulSelect will be discontinued.

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## SIMUL-SELECT OPERATION continued

#### Add or Remove Radio Control modules from an active Simul-Select as follows:

- 1. Press and hold the white SIM-SEL key.
- Press and release the green SELECT key on each Radio Control module to be added or removed from the Simul-Select. The green SELECT indicator on the module will light if it was added or go out if it was removed from the Simul-Select.
- 3. Release the SIM-SEL key. The new Simul-Select will be active.

# STORING, RECALLING, AND CLEARING SIMUL-SELECTS FROM MEMORY

Simul-Selects may be stored in memory and recalled when needed to save the time of setting up a new Simul-Select each time. The numbered SIM-SEL keys are used when Simul-Selects are stored.

#### STORING A SIMUL-SELECT

- 1. Press and hold the white SIM-SEL # key (where # is the number of the key).
- 2. Press and release the green SELECT key on each Radio Control module that you want in the Simul-Select. The green SELECT indicator on each module will light as it is added to the Simul-Select.
- 3. Release the SIM-SEL # key. The ACTIVE indicator will light if the Simul-Select can be activated, or flash and go off if it cannot be activated. The MEMORY indicator will go on.

NOTE: The Simul-Select will be deactivated (ACTIVE indicator goes off and the MEMORY indicator remains on) if the SIM-SEL # key is pressed and released, or a SELECT key on a Radio Control module not in the Simul-Select is pressed.

- 4. Press the foot switch or TRANSMIT bar and speak into the microphone. The XMIT indicator will light on all Radio Control modules in the Simul-Select. Your transmission will be received by all radios operating on the Groups or Channels you selected in the Simul-Select.
- 5. Release the foot switch or TRANSMIT bar when the transmission is completed.
- 6. Press and release the SIM-SEL key when all Simul-Select transmissions are completed. The ACTIVE indicator will go off and the Simul-Select will be discontinued. The MEMORY indicator will remain on.

#### **RECALLING A SIMUL-SELECT**

Once a Simul-Select has been stored, it may be recalled at any time. This saves the time of setting up the Simul-Select each time you want to make a transmission. A Simul-Select can be recalled from any SIM-SEL # switch that has the MEMORY indicator on.

- Press and release the SIM-SEL # key (where # is the number of the Simul-Select). The ACTIVE indicator (green)
  will light if the Simul-Select is set up, and the SELECT indicator on each Radio Control module in the Simul-Select
  will come on. The ERROR indicator will flash and go off and an error tone may be heard if the Simul-Select cannot
  be set up.
- Press the foot switch or TRANSMIT bar and speak into the microphone. The XMIT indicator will light on all Radio Control modules in the Simul-Select. Your transmission will be received by all radios operating on the Groups or Channels you selected in the Simul-Select.
- 3. Release the foot switch or TRANSMIT bar when the transmission is completed.
- 4. Press and release the SIM-SEL # key when all Simul-Select transmissions are completed. The ACTIVE indicator will go off and the Simul-Select will be discontinued. The MEMORY indicator will remain on.

# SIMUL-SELECT OPERATION continued

## INSTANT TRANSMIT FROM SIMUL-SELECT MEMORY

Instant transmissions may be made to Simul-Selects stored in memory by using the SIM-SEL # TX key.

- 1. Press and hold the SIM-SEL # key (where # is the number of the Simul-Select memory from which you want to transmit). The XMIT indicator will light.
- Speak into the microphone and make your transmission.
- 3. Release the SIM-SEL # key when the transmission is complete (the XMIT indicator will go off).

#### **CLEARING A SIMUL-SELECT MEMORY**

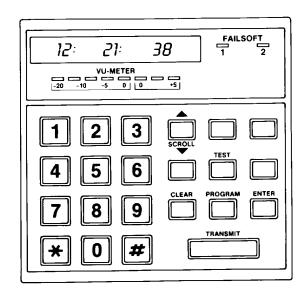
Clear a Simul-Select stored in memory (MEMORY indicator on) as follows:

- 1. Press and hold the SIM-SEL # key (where # is the number of the Simul-Select you want to clear).
- Press and release the CLEAR key on the Keypad module.
- 3. Release the SIM-SEL # key. All SELECT indicators on the Radio Control modules in the Simul-Select will go off. The ACTIVE and MEMORY indicators on the SIM-SEL # switch will also go off.

# **TELEPHONE OPERATION**

The C3 console provides direct telephone line access. A telephone call can be placed, put on hold, or patched to one or more Groups or Channels. The modules used when operating the telephone are shown in *Figure 3-4*.

#### **KEYPAD MODULE**



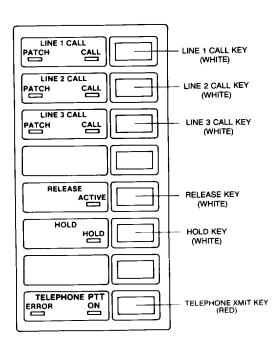


FIGURE 3-4. MODULES USED DURING TELEPHONE OPERATION

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# **TELEPHONE OPERATION** continued

# ANSWERING AN INCOMING CALL

You will hear ringing (unless disabled) on the Unselect speaker and the CALL indicator will flash on the LINE # CALL switch when there is an incoming telephone call. The CALL indicator will remain flashing until the call is answered or the call is cancelled.

NOTE: IF A HEADSET IS NOT USED, you can only hear the calling party when the TELEPHONE TX key is released. Telephone audio will come through the Unselect speaker.

1. Press and release the LINE # CALL key (where # is the number of the line with the flashing CALL indicator). The ACTIVE indicator will light on the RELEASE switch. The CALL indicator will flash slowly until the call is completed.

NOTE: If a headset is used steps 2 and 3 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the TELEPHONE PTT key.

- 2. Press the TELEPHONE PTT key and speak into the console microphone to answer the call.
- 3. Release the TELEPHONE PTT key when you have finished talking and listen to the calling party.
- 4. When the call is completed, press the RELEASE key. The ACTIVE indicator will go off.

# PLACING AN OUTGOING TELEPHONE CALL

NOTE: IF A HEADSET IS **NOT** USED, you can only hear the calling party when the TELEPHONE PTT key is released. Telephone audio will come through the Select speaker.

- 1. Press and release the LINE # CALL key (where # is the number of the line on which you wish to place a call). The CALL indicator will flash slowly, dial tone will be heard on the Select speaker, and the ACTIVE indicator will light.
- 2. Press the keys on the keypad module to dial the telephone number. You will hear the digits being dialed, followed by the call being connected or a busy signal.

NOTE: If a headset is used steps 3 and 4 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the TELEPHONE PTT key.

- 3. When the called party answers the phone, press the TELEPHONE PTT key and speak into the microphone.
- 4. Release the TELEPHONE PTT key to listen to the called party.
- 5. When the call is completed, press the RELEASE key. The ACTIVE indicator will go off.

# PLACING A TELEPHONE CALL ON HOLD

To place a call on hold:

- Press and release the HOLD key. The HOLD indicator will go on, and the CALL indicator on the active LINE # CALL switch will flash quickly. The call is on hold and you may place or answer another call.
- 2. Press the HOLD key again to take the call off hold. The HOLD indicator will go off.

# PATCHING A TELEPHONE CALL

A telephone call may be patched to one or more groups or channels. This allows members or the patched channels or groups to talk among themselves and with the patched telephone call.

# PATCHING A TELEPHONE CALL (Non-Memory Patch)

# A telephone call must be set up before it can be added to a patch.

- 1. Press and hold the white PATCH key.
- Press and release the green SELECT key on each Radio Control module which you want to patch. The green PATCH indicator on each module will light as it is added to the patch.
- 3. Press and release the LINE # CALL key to include the active telephone call in the patch.
- 4. Release the PATCH key. The ACTIVE indicator will light if the patch is set up. The ACTIVE indicator will flash and go off and an error tone will be heard if the patch cannot be set up. Once the ACTIVE indicator is on, members of the patch may talk with each other and the active telephone caller.
- Press the foot switch or TRANSMIT bar and speak into the microphone to talk with all radios in the patch. The XMIT indicator will light on all modules in the patch. Your transmission will be received by all radios operating in the patch.
- Release the foot switch or TRANSMIT bar when the transmission is completed.
- 7. Press and release the PATCH key when the patch is completed. The ACTIVE indicator will go off and the patch will be discontinued.

# PATCHING A TELEPHONE CALL (Existing Memory Patch)

A telephone call may be added to a patch recalled from memory as follows:

# A telephone call must be set up before it can be added to a patch.

- Press and release the PATCH # key (where # is the number of the patch). The ACTIVE indicator will light if the patch is set up. The ERROR indicator will flash and go off and an error tone may be heard if the patch cannot be set up.
- 2. Press and hold the PATCH # key.
- Press and release the LINE # CALL key to include the active telephone call in the patch. Once the ACTIVE indicator is on, members of the patch may talk with each other and the active telephone caller.
- Release the PATCH # key and press the PATCH # TX key corresponding to the active patch. Speak into the microphone. Your transmission will be received by all radios operating in the patch.
- 5. Release the PATCH # TX key when the transmission is completed.
- Press and release the PATCH # key when the patch is completed. The ACTIVE indicator will go off and the patch will be discontinued. The MEMORY indicator will remain on.

# PATCH OPERATION

A patch is used to let radio users on different channels and groups communicate with each other. A patch can also be used to allow a telephone call to be placed to a number of radio users. Normally, radio users in different groups or on different channels cannot communicate with each other, but during emergencies or other special situations, the console operator may patch these groups together. The modules used during patch operation are shown in *Figure 3-5*.

NOTE: More than one patch can be active at one time.

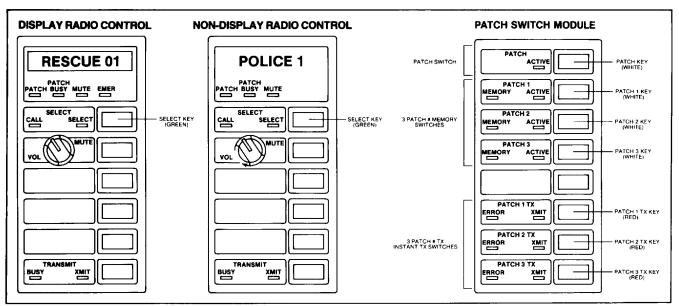


FIGURE 3-5. MODULES USED DURING PATCH OPERATION

## **MAKING A PATCH (NON-MEMORY)**

NOTE: Patch audio is heard on the Select speaker only when the patched module is in Select mode. A module with a PATCH BUSY indicator on cannot be placed in a patch.

- 1. Press and hold the white PATCH kev.
- 2. Press and release the green SELECT key on each Radio Control module which you want to patch. The green PATCH indicator on each module will light as it is added to the patch.
- 3. Release the PATCH key. The ACTIVE indicator (green) will light if the patch is set up. The ACTIVE indicator will flash and go off and an error tone will be heard if the patch cannot be set up. Once the ACTIVE indicator is on, the radios in the patched Groups and Channels may communicate with each other.
- 4. Press the foot switch or TRANSMIT bar and speak into the microphone to talk with all radios in the patch. The XMIT indicator will light on all modules in the patch. Your transmission will be received by all radios operating on the Groups or Channels you selected in the patch.
- 5. Release the foot switch or TRANSMIT bar when the transmission is completed.
- 6. Press and release the PATCH key when the patch is completed. The ACTIVE indicator will go off and the patch will be discontinued.

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# **PATCH OPERATION** continued

#### Add or Remove Radio Control modules from an active patch as follows:

- 1. Press and hold the white PATCH key.
- Press and release the green SELECT key on each Radio Control module to be added or removed from the patch. The green PATCH indicator on the module will light if it was added or go out if it was removed from the patch.
- 3. Release the PATCH key. The new patch will be active.

# STORING, RECALLING, AND CLEARING PATCHES FROM MEMORY

Patches may be stored in memory and recalled when needed to save time. The numbered PATCH keys are used when patches are stored.

#### STORING A PATCH

- 1. Press and hold the white PATCH # key (where # is the number of the key).
- 2. Press and release the green SELECT key on each Radio Control module that you want in the patch. The green PATCH indicators on each module will light as it is added to the patch.
- 3. Release the PATCH # key. The ACTIVE indicator will light if the patch can be activated or flash and go off if it cannot be activated. The MEMORY indicator will go on.

#### **RECALLING A PATCH**

Once a patch has been stored, it may be recalled at any time. This saves the time of setting up the patch each time you want to make a patch. A patch can be recalled from any PATCH switch that has the MEMORY indicator on.

- Press and release the PATCH # key (where # is the number of the patch). The ACTIVE indicator (green) will light if the patch is set up. The ERROR indicator will flash and go off and an error tone may be heard if the patch cannot be set up.
- Press the PATCH #TX key corresponding to the active patch, and speak into the microphone. The XMIT indicator
  will light on the PATCH #TX switch. Your transmission will be received by all radios operating on the selected
  Groups or Channels in the patch.
- 3. Release the PATCH # TX key when the transmission is completed.
- 4. Press and release the PATCH # key when the patch is completed. The ACTIVE indicator will go off and the patch will be discontinued. The MEMORY indicator will remain on.

#### **CLEARING A PATCH MEMORY**

# Clear a patch stored in memory (MEMORY indicator on) as follows:

- 1. Press and hold the PATCH # key (where # is the number of the patch you want to clear).
- Press and release the CLEAR key on the Keypad module.
- 3. Release the PATCH # key. All PATCH indicators on the modules in the patch will go off. The ACTIVE and MEMORY indicators on the PATCH # switch will also go off.

# **USING THE INTERCOM**

An intercom is provided to allow you to talk with other console operators in the system. The modules used when operating the intercom are shown in *Figure 3-6*.

#### INTERCOM SWITCH MODULE

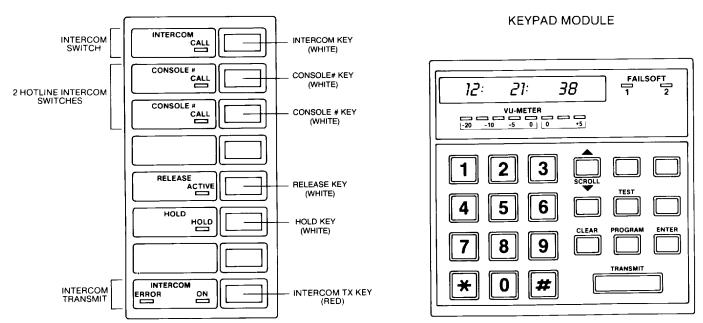


FIGURE 3-6. MODULES USED IN OPERATING THE INTERCOM

## INTERCOM DIRECT DIAL

## **PLACING AN INTERCOM CALL**

- 1. Press and release the INTERCOM key. The CALL indicator will come on and flash slowly. You will hear a dial tone through the Select speaker.
- 2. Dial the intercom number of the console you wish to call using the Keypad module keys. The number will be displayed on the keypad module and ringing will be heard. An alert tone will be heard at the called console. When the intercom is answered, the ringing will stop.
- 3. Press the white INTERCOM key to answer the intercom.

NOTE: If a headset is used steps 3 and 4 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the INTERCOM TX key.

- Press the red INTERCOM TX key and speak into the console microphone. The ON indicator will light when the intercom is working. The ERROR indicator lights if the intercom call cannot be placed.
- Release the INTERCOM TX key to listen for an intercom reply.
- Press and release the RELEASE key to turn off the intercom. The CALL indicator will go off and the keypad module will display the time.

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# **USING THE INTERCOM** continued

#### ANSWERING AN INTERCOM CALL

An incoming intercom call will be signalled by ringing (if enabled) and a fast blinking CALL indicator. Answer an intercom call as follows:

1. Press and release the white INTERCOM key. The CALL indicator will flash slowly.

NOTE: If a headset is used, steps 2 and 3 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the INTERCOM TX key.

- Press the INTERCOM TX key and speak into the console microphone. The ON indicator will light when the intercom is working. The ERROR indicator lights if the intercom call cannot be placed.
- 3. Release the red INTERCOM TX key to listen for an intercom reply.
- 4. Press and release the RELEASE key to turn off the intercom. The CALL indicator will go off.

## PLACING AN INTERCOM CALL ON HOLD

- 1. Press and release the HOLD key. The HOLD indicator will go on, and the CALL indicator will go off. The call is on hold and you may place or answer another call.
- 2. Press the HOLD key again to take the call off hold. The HOLD indicator will go off.

#### USING THE HOTLINE INTERCOM

The hotline intercom function provides immediate access between dispatchers in a system.

## **Placing An Intercom Call**

 Press and release the CONSOLE # key that corresponds to the console being called. (The console intercom number is automatically dialed). You will hear ringing through the Select speaker and an alert tone will be heard at the called console. The ringing will stop when the intercom is answered.

NOTE: If a headset is used, steps 2 and 3 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the INTERCOM TX key.

- 2. Press the INTERCOM # TX key and speak into the console microphone. The ON indicator will light when the intercom is working. The ERROR indicator lights if the intercom call cannot be placed.
- Release the INTERCOM # TX key to listen for an intercom reply.
- 4. Press and release the RELEASE key to turn off the intercom. The CALL indicator will go off.

# **AUXILIARY FUNCTIONS**

# RADIO CONTROL MODULE FUNCTIONS

#### **Muting Audio**

The yellow MUTE key on the Radio Control modules reduces the volume level of audio coming from groups or channels.

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# **AUXILIARY FUNCTIONS** continued

- Press the MUTE key to reduce the volume level of calls coming from the Group or Channel. The MUTE indicator will come on.
- Press the MUTE key again to return to the normal volume level. The MUTE indicator will go off.

#### MUTING THE UNSELECT SPEAKER

The ALL MUTE key is used to temporarily reduce the volume level of the Unselect speaker. Once the ALL MUTE key is pressed, the Unselect speaker volume will be reduced for a preset time, or until the ALL MUTE key is pressed again.

- 1. Press and release the ALL MUTE key to reduce the volume on the Unselected speaker. The ON indicator will go on.
- 2. Press and release the ALL MUTE key again to return the volume to its previous level, or wait until the timer expires. The ON indicator will go out.

#### **SENDING AN ALERT TONE**

Alert tones are generally used as a signal before sending an important message. Each Alert key transmits a distinctive tone.

- 1. Press and hold the foot switch, TRANSMIT bar, or INSTANT TX key. The XMIT indicator will go on.
- 2. Press and hold the ALERT # key. (Where # is the alert key number indicating the type of alert tone.) The ON indicator will go on.
- 3. Release the ALERT # key and speak into the microphone. The ON indicator will go off when the ALERT key is released.
- 4. Release the foot switch, TRANSMIT bar, or INSTANT TX key when the transmission is complete. The XMIT indicator will go off.

#### USING THE PUBLIC ADDRESS (PA) SYSTEM

The PA key activates a customer-supplied public address (PA) system. When this key is pressed, the microphone may be used to talk over the PA system.

- 1. Press and hold the PA key. The ON indicator will come on.
- 2. Speak into the console microphone. Your message will be heard over the PA system.
- 3. Release the PA key when the message is complete. The PA system will be turned off, the ON indicator will go off, and the console will return to normal operation.

#### **DISABLING THE CHIME**

Normally a chime (ringing) signals incoming intercom and telephone calls. The chime volume may be reduced using the CHIME key. When the chime volume is reduced, the telephone and intercom indicators will signal incoming calls.

- 1. Press and release the CHIME key to reduce chime volume. The DISABLE indicator will light.
- 2. Press and release the CHIME key again to restore the chime. The DISABLE indicator will go off.

#### **USING AUXILIARY FUNCTION KEYS**

The AUX # key (where # is the auxiliary function number) activates customer-supplied auxiliary functions (such as activating a door opener).

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## **AUXILIARY FUNCTIONS** continued

- 1. Press and release the AUX key to turn the function on. The ON indicator will come on.
- 2. Press and release the AUX key again to turn the function off. The ON indicator will go off.

**NOTE** 

Some auxiliary functions are turned on only as long as the AUX key is pressed and held down.

## NON-DISPLAY RADIO CONTROL MODULE FUNCTIONS

#### SELECTING THE TRANSMIT/RECEIVE FREQUENCY

The FREQUENCY switch selects the transmit and receive frequencies of conventional base stations. Select the frequency assigned to the Radio Control module as follows (only one frequency assigned at a time):

Press and release the FREQUENCY key (white) until the desired frequency number indicator is illuminated.

#### DISABLING REMOTE CONTROLLERS

The REMOTE switch disconnects remote control units controlling the channel from the base station. Remotes controlling a channel may be disabled or enabled as follows:

- 1. Press and release the REMOTE key to disconnect (disable) a remote control unit. The DISABLE indicator will go on.
- Press and release the REMOTE key again to connect (enable) a remote control unit. The DISABLE indicator will go off.

#### **DISABLING CHANNEL GUARD**

The MONITOR switch disables or enables Channel Guard on selected Radio Control modules. Use the monitor switch when you want to make sure no other transmissions are taking place on the channel or when you want to monitor calls not directed to you. Pressing and holding the MONITOR key temporarily disables Channel Guard on selected Radio Control modules, allowing you to hear all transmissions even if they are not coded with your Channel Guard tone. Release the MONITOR key to return to normal operation.

- 1. Press and release the MONITOR key to disable Channel Guard and monitor all transmissions on the selected channel. The ON indicator will go on.
- 2. Press and release the MONITOR key again to turn Channel Guard on again. The ON indicator will go off.

#### REPEATER DISABLE

The REPEAT DISABLE switch is used to turn a remote repeater on or off.

- Press and release the REPEAT key to disable the remote repeater for this channel. The DISABLE indicator will come on. Transmissions made over this channel will be heard at the console, but not retransmitted.
- 2. Press and release the REPEAT key again to enable the remote repeater. The DISABLE indicator will go out. Transmissions made over this channel will again be retransmitted by the repeater.

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## SUPERVISORY FUNCTIONS

Certain functions on the console are intended for supervisory personnel. These functions should only be used by authorized personnnel.

#### DISABLING A CONSOLE IN THE SYSTEM

The CONSOLE Disable key allows supervisory personnel to disconnect another console in the system. Once disabled, the console can be enabled by using the CONSOLE Enable switch. The CONSOLE key is used with the Keypad module to disable another console.

- 1. Press and release the CONSOLE Disable key. The DISABLE indicator will go on and the alphanumeric display will show "OPR 000."
- Dial the intercom number of the console to be disabled using the keys on the Keypad module. Press the ENTER key.
- 3. The alphanumeric display at the disabled console will display the word "DISABLED."

NOTE: The DISABLE indicator is on while a console is being disabled and goes off when the console is disable. The DISABLE indicator flashes when a console cannot be disabled (e.g., invalid console number) and an error tone will sound on the speaker until the command is cleared. Press and release the CONSOLE Disable key to clear the command.

#### ENABLING A CONSOLE IN THE SYSTEM

The CONSOLE Enable key allows supervisory personnel to enable a console in the system.

- Press and release the CONSOLE Enable key. The ENABLE indicator will go on and the alphanumeric display will show "OPR 000."
- 2. Dial the intercom number of the console to be enabled using the keys on the Keypad module. Press the ENTER key.

NOTE: The ENABLE indicator is on while a console is being enabled and goes off when the console is enabled. The ENABLE indicator flashes when a console cannot be enabled (e.g., invalid console number) and an error tone will sound on the speaker until the command is cleared. Press and release the CONSOLE Enable key to clear the command.

#### PRIORITY OVERRIDE

The PRIORITY key allows supervisory personnel to override a group or channel in use by another dispatcher in the system. The interrupted dispatcher will hear an alert tone when the Group or Channel is being overridden.

- 1. Press and release the PRIORITY key. The ON indicator will come on.
- 2. Press the foot switch or TRANSMIT bar and speak into the microphone. The XMIT indicator will come on.
- 3. Release the foot switch or TRANSMIT bar when the transmission is completed. The XMIT indicator will go off.
- 4. Press and release the PRIORITY key again when the priority communications are completed. The ON indicator will go off.

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# CHANGING THE DISPLAY ON A RADIO CONTROL MODULE

A Display Radio Control module may be programmed to communicate with different groups (fleets, agencies, and subfleets). The methods available to program a Display Radio Control module are explained in the following paragraphs. Modules used when changing the display are shown in *Figure 3-7*.

NOTE: Only one Display Radio Control module can be changed at a time.

#### **DISPLAY RADIO CONTROL MODULE**

#### **KEYPAD MODULE**

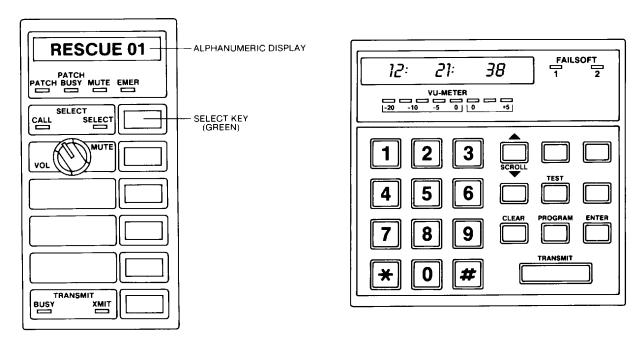


FIGURE 3-7. MODULES USED IN CHANGING A GROUP

### USING THE GROUP LIST

- 1. Press and release the PROGRAM key on the Keypad module. The Keypad module display will show "SEL GRP."
- Press and release the SELECT key on the Display Radio Control module to be changed. The alphanumeric display on the Display Radio Control module will change to a blank display and all Display Radio Control module indicators will light. The Keypad module display will show "PROG GRP."
- 3. Press and release the SCROLL key (up or down) on the Keypad module. The available group names will appear in the alphanumeric display. When the SCROLL down key is pressed the Keypad module display will show "PREVIOUS." Pressing SCROLL up will display "NEXT."
- 4. Continue to press and release the SCROLL key until the desired group appears.
- 5. Press ENTER on the Keypad module when the proper Group name appears. The Display Radio Control module is now set for the group shown in the alphanumeric display. All Display Radio Control module indicators will go off and the Keypad module display will show "PROG OK."

# CHANGING THE DISPLAY ON A RADIO CONTROL MODULE continued

## **USING GROUP OR UNIT CODE**

The Display Radio Control module may be programmed using a group or unit code, rather than scrolling through the permission list. When using a group code, precede the group number with \*. If a unit code is used, precede the unit code with #.

- 1. Press and release the PROGRAM key on the Keypad module. The Keypad module will display "SEL GRP."
- 2. Press and release the SELECT key on the Display Radio Control module to be changed. The alphanumeric display on the Display Radio Control module will change to a blank display and all Display Radio Control module indicators will go on.
- 3. Press the \* key (if entering a group number) or the # key (if entering a unit number). The Keypad module will display "GRP 0000" if \* was pressed or "UNIT0000" if # was pressed.
- 4. Enter the applicable group or unit number.
- 5. Press ENTER on the Keypad module. The new group name will appear on the alphanumeric display.

# **SETTING THE CLOCK**

The Keypad module clock may be set as follows:

- 1. Press and release the TEST key on the Keypad module. The Keypad module will display "TEST #00."
- 2. Press the ENTER key.
- 3. The first displayed digit will flash. Pressing the SCROLL ▼ key will step the flashing digit to the right. Pressing the SCROLL ▲ key will step the flashing digit to the left.

  You may type in the correct time using the keypad when the first digit is flashing, or you may correct one or more digits by using the SCROLL keys.
- 4. Once the correct time is displayed, press the ENTER key.

This section identifies several events that may occur during normal operation of the console and explains ways the operator may respond to each event. These events (such as an incoming telephone or intercom call) are not initiated by the console operator, but must be responded to in some way.

Table 4-1 lists several events the console operator may encounter, along with possible actions. In many cases this table will provide all the operating information required to respond to an event. Procedures on telephone and intercom operation follow the table.

**TABLE 4-1. OPERATING EVENTS** 

| OPERATING EVENT                | CONSOLE IDENTIFICATION  | CONSOLE<br>OPERATOR RESPONSE   | AE                 | DITIONAL INFORMATION  |
|--------------------------------|---|--|--------------------|---|
|                                |   |  | PAGE               | PARAGRAPH HEADING   |
| EMERGENCY<br>DECLARATION       | a. Alert tone b. Emergency indicators c. VU meter flashes                                 | Respond to emergency alert.     Follow your standard emergency procedure.  | 2-2                | CONTROL MODULES   |
| SYSTEM ENTERS<br>FAILSOFT 1    | a. Alert tone     b. FAILSOFT 1 indicator     c. Patch and Simul-Select     not available | Continue to operate     Do not use Simul- Select or patch  | 2-9<br>3-5<br>3-10 | KEYPAD MODULE<br>SIMUL-SELECT<br>OPERATION<br>PATCH OPERATION |
| SYSTEM ENTERS<br>FAILSOFT 2    | a. Alert tone     b. FAILSOFT 2 indicator     c. Trunking not available                   | Use conventional operation     Notify key units that trunking is not available   | 2-9                | KEYPAD MODULE   |
| INCOMING TELEPHONE<br>CALL     | a. Ringing     b. Telephone LINE #         CALL indicator flashing                        | 1. Press LINE # CALL key by flashing indicator 2. Press TELEPHONE TX key to transmit (unless using headset) 3. Press RELEASE key to end call | 3-7<br>3-8         | TELEPHONE<br>OPERATION<br>ANSWERING A<br>TELEPHONE CALL       |
| INCOMING DIAL UP INTERCOM CALL | a. Ringing     b. Intercom CALL indicator   | Press INTERCOM key     Press INTERCOM TX     key to transmit (unless     using headset)     Press RELEASE key to     turn off intercom       | 3-12               | USING THE INTERCOM  |
| INCOMING HOTLINE INTERCOM CALL | a. Ringing     b. Intercom CALL indicator   | Press CONSOLE # Key     Press INTERCOM TX     key to transmit (unless     uning headset)     Press RELEASE key to     turn off intercom.     | 3-12               |   |

#### TABLE 4-1. OPERATING EVENTS continued

|   | CONSOLE IDENTIFICATION  | CONSOLE                                      | ADDITIONAL INFORMATION |  |  |
|---|---|--|------------------------|--|--|
| OPERATING EVENT                                 |   | OPERATOR RESPONSE                            | PAGE                   | PARAGRAPH HEADING                                    |  |
| CONSOLE IS DISABLED                             | a. XMIT and BUSY indicators light on all modules                                |  | 3-16                   | SUPERVISORY<br>FUNCTIONS                             |  |
|   | b. DISABLED appears on keypad module display                                    |  |                        |  |  |
|   | c. Console is inoperative   |  |                        |  |  |
| PRIORITY OVERRIDE                               | a. Alert tone     b. XMIT indicator goes     out and BUSY indicator     goes on |  | 3-16                   | SUPERVISORY<br>FUNCTIONS                             |  |
| UNPROGRAMMED<br>DISPLAY RADIO<br>CONTROL MODULE | Display Radio Control module displays all stars (*)                             | Reprogram Display Radio<br>Control module(s) | 3-17                   | CHANGING THE<br>DISPLAY ON A RADIO<br>CONTROL MODULE |  |

# **ANSWERING A TELEPHONE CALL**

You will hear ringing (unless disabled) on the speaker and the CALL indicator will flash on the LINE # CALL switch when there is an incoming telephone call. The CALL indicator will remain flashing until the call is answered or the call is cancelled.

NOTE: IF A HEADSET IS **NOT** USED, you can only hear the calling party when the TELEPHONE PTT key is released. Telephone audio will come through the Select speaker.

 Press and release the LINE # CALL key (where # is the number of the line with the flashing CALL indicator). The ACTIVE indicator will light on the RELEASE switch. The CALL indicator will flash slowly until the call is completed.

NOTE: If a headset is used steps 2 and 3 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the TELEPHONE PTT key.

- 2. Press the TELEPHONE PTT key and speak into the console microphone to answer the call.
- 3. Release the TELEPHONE PTT key when you have finished talking and listen to the calling party.
- 4. When the call is completed, press the RELEASE key. The ACTIVE indicator will go off.

# ANSWERING A DIAL UP INTERCOM CALL

An incoming intercom call will be signalled by ringing (if enabled) and a fast blinking CALL indicator. Answer an intercom call as follows:

1. Press and release the white INTERCOM key. The CALL indicator will flash slowly.

NOTE: If a headset is used, steps 2 and 3 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the INTERCOM TX key.

# **ANSWERING A DIAL UP INTERCOM CALL** continued

- Press the INTERCOM TX key and speak into the console microphone. The ON indicator will light when the intercom is working. The ERROR indicator lights if the intercom call cannot be placed.
- 3. Release the red INTERCOM TX key to listen for an intercom reply.
- 4. Press and release the RELEASE key to turn off the intercom. The CALL indicator will go off.

# ANSWERING THE HOTLINE INTERCOM

An incoming hotline intercom call will be signalled by ringing (if enabled) and a fast blinking CONSOLE # CALL indicator. Answer an intercom call as follows:

1. Press and release the white CONSOLE # key next to the flashing CALL indicator.

NOTE: If a headset is used, steps 2 and 3 are not needed. Talk and listen through the headset the same as a standard telephone call. It is not necessary to press the INTERCOM TX key.

- Press the INTERCOM TX key and speak into the console microphone. The ON indicator will light when the intercom is working. The ERROR indicator lights if the intercom call cannot be placed.
- 3. Release the red INTERCOM TX key to listen for an intercom reply.
- 4. Press and release the RELEASE key to turn off the intercom. The CALL indicator will go off.

