INSTRUCTION MANUAL SUPPLEMENT

A preliminary draft copy of a supplement to the Users Manual follows. These instructions address the PTT function.

PTT Beta 2
User Instructions

11:12am
11/22/02
PH.BOOK MESSAGE

11/22/02 12:05pm

MOTOROLA

verizon

MENU

1 2ABC 3DEF
4GHI 5JKL 6MNO
7PQRS 8TUV 9WXYZ
* 0OPR #

PWR

Table of Contents

Table of Contents

Section 1: Overview

- These are the User Instructions for the **PTT BETA 2 Release** of the Motorola V60p Push-To-Talk handset.

- This document is intended to support Verizon PTT user testing of the BETA 2 software.

- These user instructions reflect the most current version of the V60p PTT handset software and are representative of the final product except for the following functionality which will be available when the final PTT server is installed in the Verizon network:
  – Presence functionality for 150 people and 50 groups. Currently, presence is available for the first 16 contacts in the PTT Contact List.
  – Alert feedback
  – Missed calls while on PTT call

Section 1: PTT Set-Up

In advance of using your PTT service, the following activities should be completed and verified:

- Contact your PTT Trial Administrator and confirm that your PTT handset has been provisioned on the Winphoria PTT server and you have Express Network service.

- Via the PTT Trial website, set-up your PTT Contact List for download to your PTT handset.

- Ensure that you have the Speakerphone attachment to support PTT high audio. (Note: the PTT trial handset is a modified V60x which requires a speakerphone attachment. The final PTT handset will have an integrated speakerphone)

Section 1: PTT Beta Handset Overview v60X

Barrell Finish
Barrell color and finish now matches knuckels (high gloss chrome)

Stub Antenna

Status Light Indicator

Headset Port
-For connection to portable, hands free headset.

Replaceable Covers Release Button

EL Backlighting TMF (Twisted Mirror Film)

In Call Display
-Phone number is replaced with inverted Carrier Banner
-Calling Line Identification displayed on main display

External Display (96 x 16)
-Phone number displayed
-Name is displayed if in phone book
-Icon indicating Home, Mobile, Work, etc

Idle Mode Display
-Date and Time
-Voice Mail indicators
-Messaging indicators
-Event reminder
-Volume keys used for cycling thru and setting alerts and call forwarding

Removeable front covers/lenses
Metal front cover is consumer replaceable by sliding down along y - axis

11/22/02 12:05pm

MOTOROLA

verizon

Section 1: PTT Beta Handset Overview v60X

Internal Lens

Minor modification to shape of internal lens. All other elements and graphics will be the same as current V60i.

Volume Buttons/PTT Button

-Top two buttons adjust keypad, earpiece and ringer volumes.

-Bottom button is PTT Key

Power Key

- Powers phone on and off

Connector Port

-Gives you the ability to expand the use of your phone through the many accessories offered... chargers, vehicle power adapter and data accessories.

Earpiece

-High quality sound and a comfortable fit.

Open and Close Phone

-Like the flip on our StarTAC™ phones, opening the phone answers a call and closing it ends a call (unless Key Answer Only is selected).

Display

-EL Backlighting

-TMF Display Technology

-Easy to read 96 x 64 pixel display with 3 lines of text, 1 line of icons and 1 line of prompts.

VA / VR Button

-Press this button and speak the pre-recorded voice tag to access voice dialing and other menu shortcuts linked with a tag. Also used for VoiceNotes.
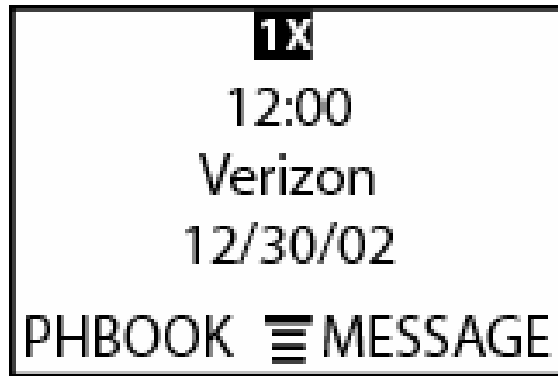
Keypad

-Large, well spaced, tactile keys ensure accuracy and speed.

7

Section 2: Getting Started

Idle Screen

```
        1X
      12:00
     Verizon
    12/30/02
PHBOOK ≡MESSAGE
```

Note: During power-up, the phone automatically registers on the CDMA 1X and PTT networks. This process typically requires up to 1 minute. During the registration process, voice service is not available.

STEP 1.) Turn on your V60x/p by pressing the "PWR" key at the bottom left corner of the keypad.

STEP 2.) Upon power up, the Main Menu or Idle Screen will appear.

STEP 3.) The V60x/p will automatically search for the CDMA 1X Network and if located, register on the PTT server.

STEP 4.) The "1X" icon will appear at the top of the display. Once the V60x/p is registered with the PTT server, the inverted 1X icon will appear signaling that you are able to make and receive PTT calls.
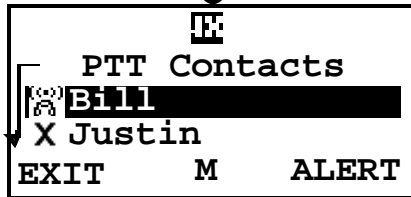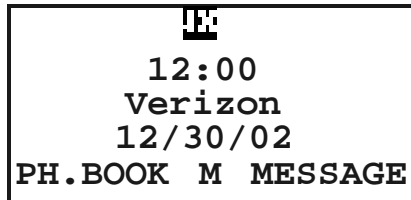
8

Section 3: Initiating a PTT Call

- There are two types of PTT calls: Barge and Alert.

  - Barge calls allow you to initiate a PTT call and speak immediately to the called party.

  - Alert calls provide the called party with an Alert informing them of your incoming PTT call.

- There are 4 options to initiate a PTT call:

  - Option 1: Select PTT name from PTT Contact List

  - Option 2: Enter PTT number via keypad

  - Option 3: Select PTT number (or name) from Dialed and Received Calls

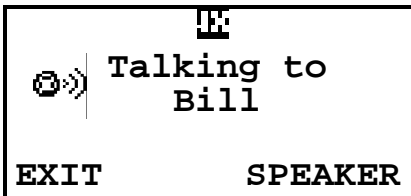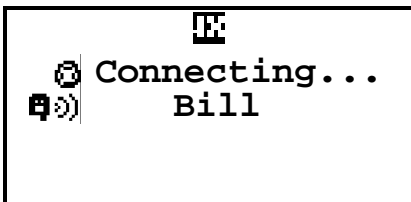 - Option 4: Select PTT number from Phonebook

PTT Beta 2 User Guide

Initiating PTT

<u>Barge</u> Calls

Section 3: Initiating a PTT Barge Call via Contact List (Option 1)

```
         📧
       12:00
       Verizon
      12/30/02
PH.BOOK  M  MESSAGE
```

```
         📧
    PTT Contacts
  Bill
  X Justin
EXIT      M    ALERT
```

user presses and holds PTT button; 'Connection to Speak' tone played

```
         📧
   Connecting...
        Bill
```

```
         📧
      Talking to
         Bill
EXIT         SPEAKER
```
release PTT Button

STEP 1.) From Idle, press and release the PTT button. The PTT Contact List will appear on the display.

STEP 2.) Use the arrow keys to scroll through the PTT Contact list and select (highlight) the person or group to be Barged.
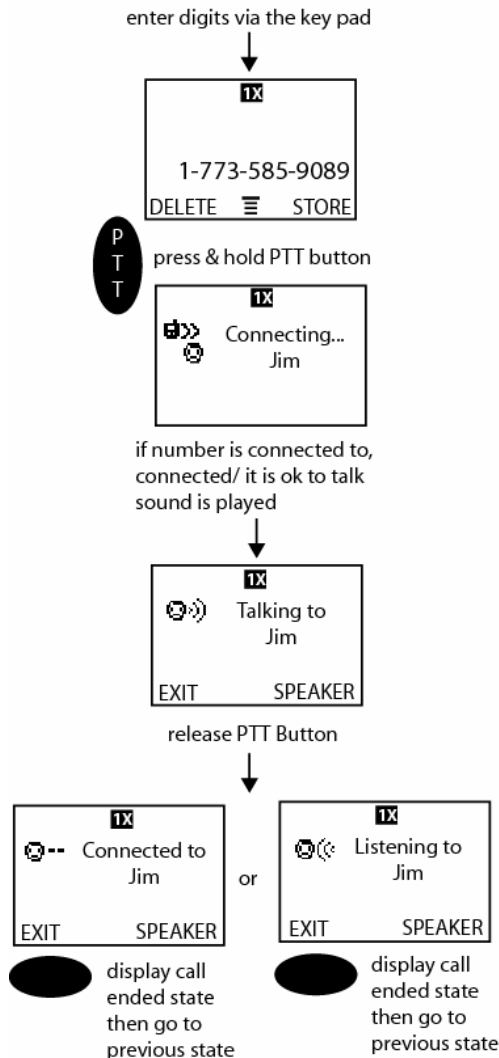
STEP 3.) Press and <u>hold</u> the PTT button. The "Connecting ..." screen will appear.

STEP 4.) You will hear a tone indicating that you can speak and the "Talking To" screen will appear.   Begin talking and release PTT key when done. (Please see Section 4 "In a PTT Call" for additional detail on the in-call process).

STEP 5.) If the called party is unavailable (e.g., the handset might be turned off or out of the PTT coverage area), then the "Unavailable" screen will appear. Refer to Section 11 for other error conditions.

11

Section 3: Initiating a PTT Barge Call via Keypad
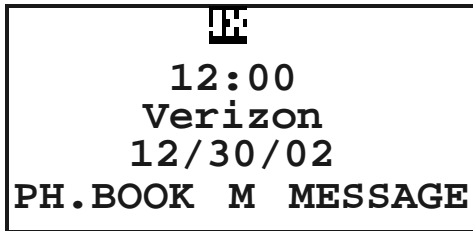
Initiate a PTT Barge from Idle

enter digits via the key pad

1X
1-773-585-9089
DELETE ≡ STORE

P T T press & hold PTT button

1X
▣≫ Connecting...
Jim

if number is connected to,
connected/ it is ok to talk
sound is played

1X
▣· Talking to
Jim
EXIT SPEAKER

release PTT Button

1X
▣-- Connected to
Jim
EXIT SPEAKER

or

1X
▣⟨ Listening to
Jim
EXIT SPEAKER

display call
ended state
then go to
previous state

display call
ended state
then go to
previous state

STEP 1.) From the main menu, enter the PTT number via the keypad.

STEP 2.) Press and hold the PTT button. The "Connecting ..." screen will appear.

STEP 3.) If the called party is unavailable (e.g., the handset might be turned off or out of the PTT coverage area), then the "Unavailable" screen will appear. Refer to Section 11 for other error conditions.

Section 3: Initiating a PTT Barge Call via Dialed & Received Calls

```
            ▥
         12:00
        Verizon
        12/30/02
PH.BOOK  M  MESSAGE
```

```
         ▥                    ▥
 --Dialed Calls--     -Received Calls-
  10)⊛Bill             10)⊛Bill
 ↘9)Justin            ↘9)1-847-438-236
BACK    M    VIEW    BACK    M    VIEW
```

user presses and
holds PTT button;
- 'Connection to Speak'
tone played

```
            ▥
   ⊚ Connecting...
  ▤») Bill
```

```
            ▥
   ⊚») Talking to
          Bill

EXIT           SPEAKER
```
release PTT Button

Please see Section 4 for detail on the in-call process once the Alert has occurred.

STEP 1.)   From the idle screen, press the Menu button. The Recent Calls option will appear. Press the "Select" soft key which will appear at the bottom right corner of the display.

STEP 2.)   Use the arrow keys to scroll through the Recent Calls options and select (highlight) either Received Calls or Dialed Calls. Press the "Select" soft key. A list of your last ten calls will appear.

STEP 3.)   Use the arrow keys to scroll through the list of calls (Dialed or Received) and select (highlight) the person to be Alerted. Presence icons denote a PTT call.

STEP 4.)   Press and hold the PTT button. The "Connecting ..." screen will appear.

STEP 5.)   You will hear a tone indicating that you can speak and the "Talking To" screen will appear. Begin talking and release PTT key when done. (Please see Section 4 "In a PTT Call" for additional detail on the in-call process).
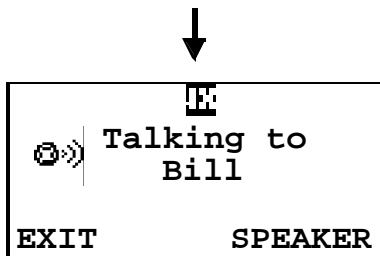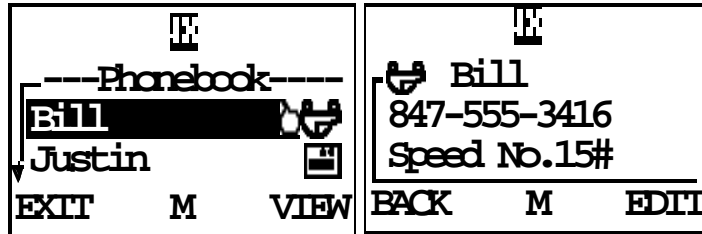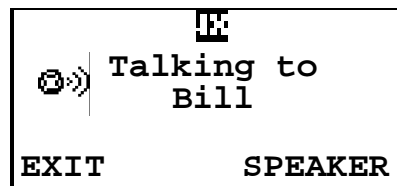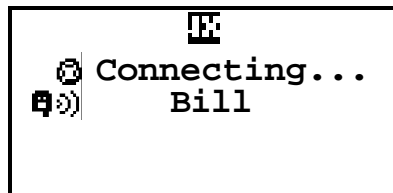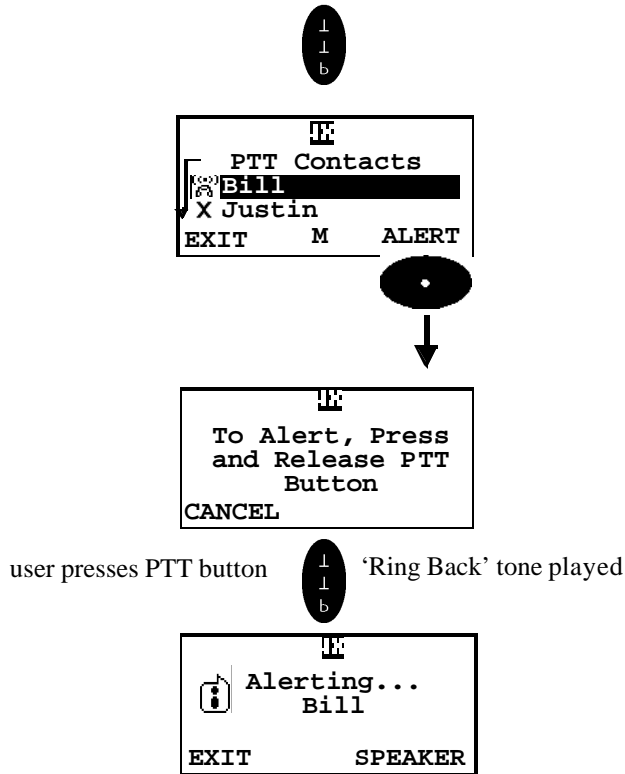
STEP 6.)   If the called party is unavailable (e.g., the handset might be turned off or out of the PTT coverage area), then the "Unavailable" screen will appear. Refer to Section 11 for other error conditions.

13

Section 3: Initiating a PTT Barge Call via Phonebook


```
      ☰
 ----Phonebook----
 Bill
 Justin
EXIT    M    VIEW
```

```
         ☰
 ☏ Bill
 847-555-3416
 Speed No.15#
BACK    M    EDIT
```

user presses and
holds PTT button;
'Connection to Speak'
tone played

```
        ☰
 ☺ Connecting...
 ▣⊃    Bill
```

```
        ☰
 ◉⊃  Talking to
        Bill

EXIT        SPEAKER
```
release PTT Button

STEP 1.) From the Idle Screen, press the Menu key. The list of menu items will appear on the display.

STEP 2.) Use the arrow keys to scroll through the list and select Phonebook. Scroll through the Phonebook and select (highlight) the person or group to be Barged.

STEP 3.) Press and hold the PTT button. The "Connecting …" screen will appear.

STEP 4.) You will hear a tone indicating that you can speak and the "Talking To" screen will appear. Begin talking and release PTT key when done. (Please see Section 4 "In a PTT Call" for additional detail on the in-call process).

STEP 5.) If the called party is unavailable (e.g., the handset might be turned off or out of the PTT coverage area), then the "Unavailable" screen will appear. Refer to Section 11 for other error conditions.

PTT Beta 2 User Guide

Initiating PTT

<u>Alert</u> Calls

Section 3: Initiating a PTT Alert Call via Contact List

```
          III
     PTT Contacts
  R Bill
  X Justin
  EXIT    M    ALERT
```

```
          III
   To Alert, Press
  and Release PTT
       Button
  CANCEL
```

user presses PTT button   'Ring Back' tone played

```
          III
  [i]  Alerting...
          Bill

  EXIT       SPEAKER
```

Please see Section 4 for detail on the in-call process once the Alert has occurred.

STEP 1.) From the main menu, press and release the PTT button. The PTT Contact List will appear on the display.

STEP 2.) Use the arrow keys to scroll through the PTT Contact list and select (highlight) the person to be Alerted. (Note: Groups can not be Alerted.)

STEP 3.) Select the "Alert" soft key which will appear at the bottom right corner of the display.

STEP 4.) Press and release the PTT button. You will hear a tone indicating the Alert has been sent. (Please see Section 4 "In a PTT Call" for additional detail on the in-call process).

STEP 5.) To end the PTT call, pres the "END" button on the keypad or the "Exit" key on the display. Refer to Section 11 for error conditions that can occur while Alerting.

16

Section 3: Initiating a PTT Alert Call via Keypad

Initiate a PTT Alert from Idle
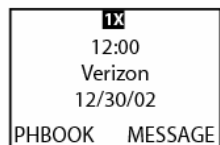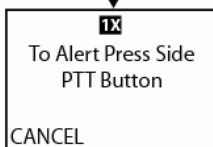
STEP 1.) From Idle, enter the PTT number via the keypad.

STEP 2.) Press the menu key on the bottom center of the display.

STEP 3.) Scroll to the "Alert" option and press the "SELECT" soft key.

STEP 4.) Press and release the PTT button. You will hear a tone indicating the Alert has been sent. (Please see Section 4 "In a PTT Call" for additional detail on the in-call process).

STEP 5.) To end the PTT call, pres the "END" button on the keypad or the "Exit" key on the display. Refer to Section 11 for error conditions that can occur while Alerting.

17

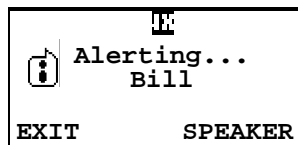# Section 3: Initiating a PTT Alert Call via Dialed & Received Calls
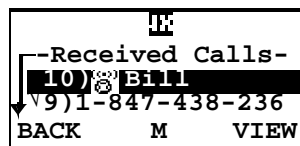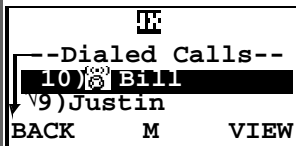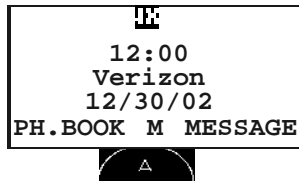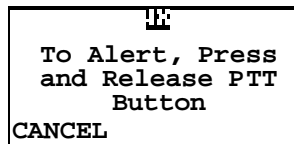
```
          IIIIIII
          12:00
          Verizon
          12/30/02
  PH.BOOK  M  MESSAGE
```

```
          IIIIIII                    IIIIIII
  --Dialed Calls--            -Received Calls-
    10)  Bill                   10)  Bill
  ▽9)Justin                    ▽9)1-847-438-236
  BACK     M     VIEW          BACK     M     VIEW
```

Select 'Alert' from the context sensitive menu

```
          IIIIIII
      To Alert, Press
      and Release PTT
          Button
  CANCEL
```

user presses PTT button   'Ring Back' tone played

```
          IIIIIII
    [  ]  Alerting...
            Bill

  EXIT          SPEAKER
```

Please see Section 4 for detail on the in-call process once the Alert has occurred.

STEP 1.)   From the idle screen, press the Menu button. The Recent Calls option will appear. Press the "Select" soft key which will appear at the bottom right corner of the display.

STEP 2.)   Use the arrow keys to scroll through the Recent Calls options and select (highlight) either Received Calls or Dialed Calls. Press the "Select" soft key. A list of your last ten calls will appear.

STEP 3.)   Use the arrow keys to scroll through the list of calls (Dialed or Received) and select (highlight) the person to be Alerted. Presence icons denote a PTT call.

STEP 4.)   Press the Menu button and select "Alert"from the context sensitive menu.

STEP 5.)   Press and release the PTT button. You will hear a tone indicating the Alert has been sent. (Please see Section 4 "In a PTT Call" for additional detail on the in-call process).

STEP 6.)   To end the PTT call, pres the "END" button on the keypad or the "Exit" key on the display. Refer to Section 11 for error conditions that can occur while Alerting.

Section 3: Initiating a PTT Alert Call via Phonebook
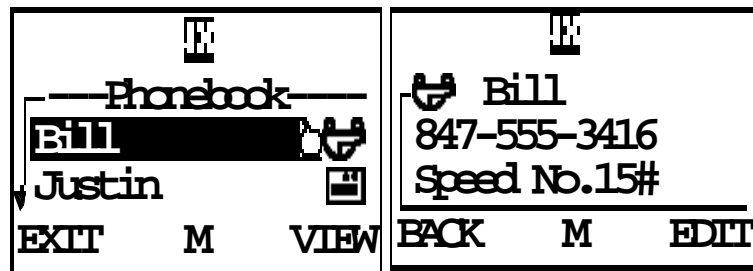
```
         ▓
──Phonebook──
Bill            
Justin          
EXIT    M    VIEW
```

```
      ▓
   Bill
847-555-3416
Speed No.15#
BACK    M    EDIT
```

Select 'Alert' from the context sensitive menu

```
      ▓
To Alert, Press
and Release PTT
    Button
CANCEL
```

user presses PTT button   'Ring Back' tone played

```
      ▓
   Alerting...
      Bill

EXIT      SPEAKER
```

Please see Section 4 for detail on the in-call process once the Alert has occurred.

STEP 1.) From the Idle Screen, press the Menu key. The list of menu items will appear on the display.

STEP 2.) Use the arrow keys to scroll through the list and select Phonebook. Scroll through the Phonebook and select (highlight) the person or group to be Alerted.
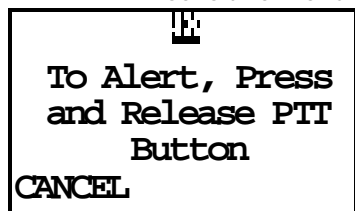
STEP 3.) Press the Menu key and select the "Alert" option from the context sensitive menu.

STEP 4.) Press and release the PTT button. You will hear a tone indicating the Alert has been sent. (Please see Section 4 "In a PTT Call" for additional detail on the in-call process).
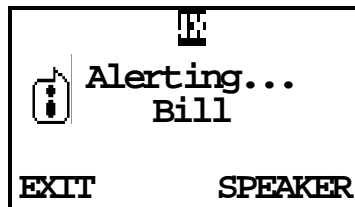
STEP 5.) To end the PTT call, press the "END" button on the keypad or the "Exit" key on the display. Refer to Section 11 for error conditions that can occur while Alerting.

19

PTT Beta 2 User Guide
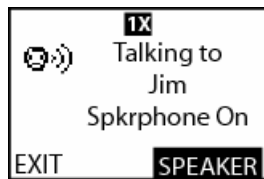
STEP 1.) Once connected (remember, you are pushing and holding the PTT button), the talk permit tone is heard and the screen changes to show a "Talking" icon along with the words "Talking to ...". The name or number of the person contacted is also displayed. Now you should start talking.
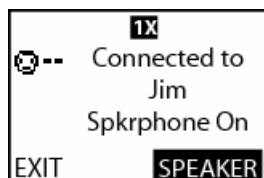
STEP 2.) When finished talking, release the PTT button and the display will read "Connected to ...". You are now waiting for a response from the called party or you can press your PTT button to talk again.

STEP 3.) When the called party talks, the text changes to "Listening to ..." and the "Listening To" icon appears. When the person releases their PTT button, a talk release tone is heard and the screen returns to "Connected to Jim".

Section 4: In a PTT Call

STEP 4.) To end the call, press the "EXIT" softkey in the bottom left corner of the display or press the "END" key on the keypad.

The Network server can also end the call. This is known as "Timing Out" and occurs when neither party speaks for a period of 20 seconds or more.
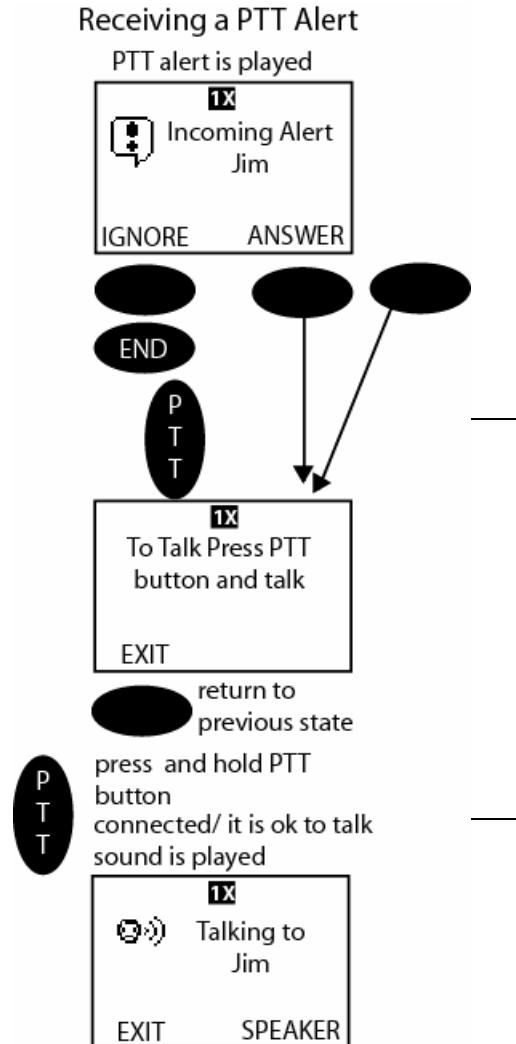
If the call Times Out, you may need to press the End Key to return to the idle screen.
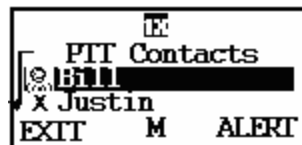
STEP 5.) Upon ending or timing out of a PTT call, the phone will return to the PTT List screen with the previously called party still highlighted or to the screen where the action was originated.

Please see Section 6 "PTT Calling States" for detailed views of the display while in a PTT call.

Section 5: Receiving a PTT Alert Call

Receiving a PTT Alert
PTT alert is played

1X
Incoming Alert
Jim

IGNORE   ANSWER

END

P
T
T

1X
To Talk Press PTT
button and talk

EXIT

return to
previous state

press and hold PTT
button
connected/ it is ok to talk
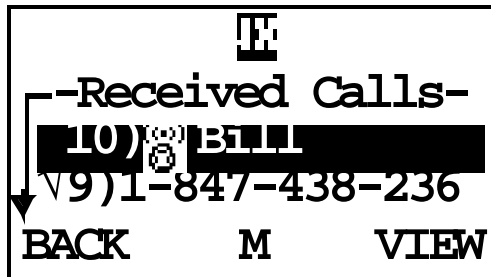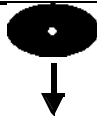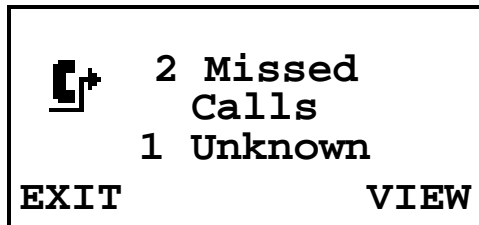sound is played

P
T
T

1X
Talking to
Jim

EXIT   SPEAKER

STEP 1.) When an incoming PTT Alert call is received the following screen is shown and a call tone is heard.

STEP 2.) If you want to talk, press and hold the PTT button and begin talking.

You must reply within 20 seconds or the call will time out.

If you do not want to take the call, press the "IGNORE" key at the bottom left hand corner of the display. You can also hit the "END" key on the keypad. The display will return to the Idle screen.

STEP 3.) From here, the PTT operation is as described in Section 4 "In a PTT Call".

22

Section 5: Receiving a PTT Barge Call

Receiving a PTT Barge

PTT alert is played
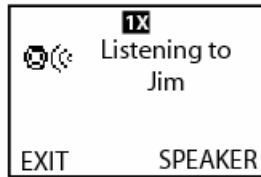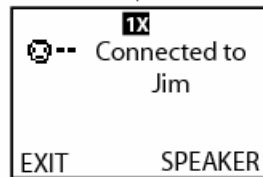
1X
Listening to
Jim

EXIT   SPEAKER

Jim stops talking

END

1X
Connected to
Jim

EXIT   SPEAKER

PTT

press and hold PTT
button

connected/ it is ok to talk
sound is played

1X
Talking to
Jim

EXIT   SPEAKER
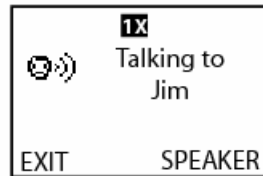
STEP 1.) When an incoming PTT Barge call
is received the following screen is
shown and a call tone is heard.

STEP 2.) From here, the PTT operation is as
described in the "In a PTT Call"
section.

Section 6: Missed Calls

```
        2 Missed
          Calls
       1 Unknown
EXIT              VIEW
```

```
        ⊥⊤
 -Received Calls-
 10) BILL
 ∇9)1-847-438-236
BACK      M    VIEW
```

When a PTT Alert is received by the phone but not answered, a "Missed Call" dialogue is displayed.

STEP 1.) From the Missed Call screen, press the "View" button at the bottom right of the display.

STEP 2.) The display screen will go to the "Received Calls" list.

STEP 3.) Use the arrow keys to scroll through the "Received Calls" list.

Section 7: "Sort By" in the PTT Contact List

```
         ▥
   PTT Contacts
 ┌─────────────────
 │⌛Bill
 │X Justin
 EXIT    M    ALERT
```

Select 'Setup' from context-sensitive menu)

```
         ▥
  ----Setup-----
 Sort By:Status
 Open To:Top of...
 CANCEL     CHANGE
```

```
         ▥
  ----Sort By----
 Name
 √Status
 BACK       SELECT
```

```
  Changed:
  Sort By
  Name
```

```
         ▥
  ----Setup-----
 Sort By:Name
 Open To:Top of...
 CANCEL     CHANGE
```
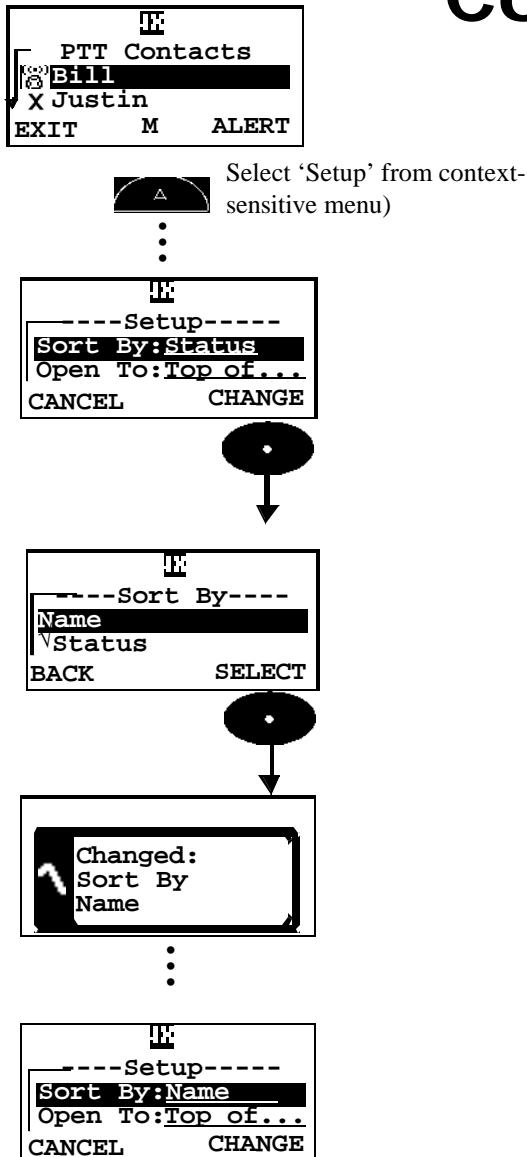
The PTT Contact List can be sorted by Name or by Status. If you sort by Name, then the PTT Contact List will be displayed in alphabetical order. If you sort by status (on line, off line), then the PTT Contact List will display the first available user (via presence indicator) in alphabetical order.

To use the "Sort By" function, take the following steps:

STEP 1.) From the PTT Contact List, press the Menu key and select "Set-up" from the menu options.

STEP 2.) Use the arrow keys to scroll through the options
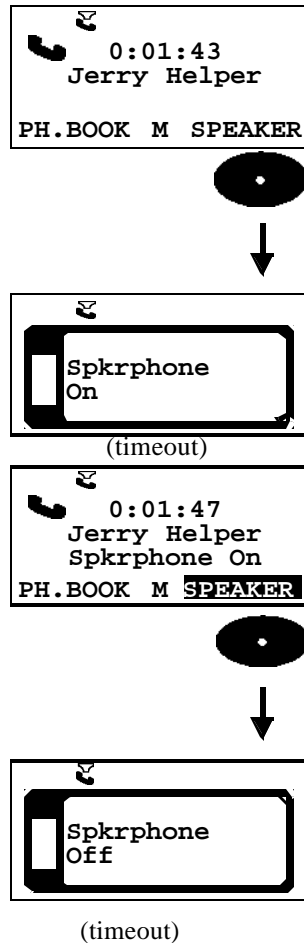
Section 8: "Open To" in the PTT Contact List
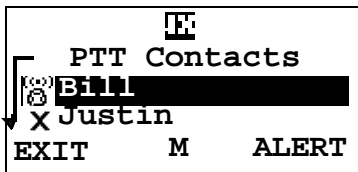
```
          ⠭
     PTT Contacts
  ⠮Bill
  ✗Justin
EXIT      M     ALERT
```

Select 'Setup' from context-sensitive menu)

```
          ⠭
  ┌----Setup-----
  Sort By:Status
  Open To:Last Call
  CANCEL       CHANGE
```

```
          ⠭
  ┌----Open To----
  Top of List
  √Last Call
  BACK         SELECT
```

```
   Changed:
   Open To
   Top of List
```

```
          ⠭
  ┌----Setup-----
  Sort By:Status
  Open To:Top of...
  CANCEL       CHANGE
```
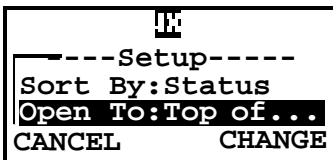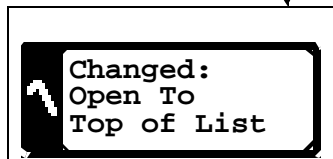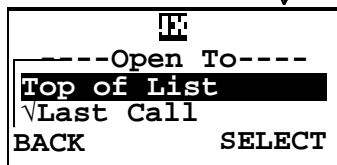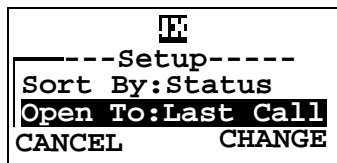
STEP 1.) From the PTT Contact List, press the Menu key and select "Open To" from the context sensitive menu.

STEP 2.) Use the arrow keys to scroll through the two options: "Top of List" or "Last Call". Select (highlight) the desired option and press the Select soft key.

STEP 3.) If you select "Top of List", the PTT Contact List will open in alphabetical order. If you select "Last Call", the PTT Contact List will open with the contact from your last call.

STEP 4.) Press the Select soft key and the display will show the "Changed" message. You will then be returned to the "Setup" menu.

Section 9: Speakerphone: Switching Speakerphone On and Off

```
      ☎
  📞    0:01:43
      Jerry Helper

PH.BOOK  M  SPEAKER
```

```
      ☎


      Spkrphone
      On

```
(timeout)

```
      ☎
  📞    0:01:47
      Jerry Helper
      Spkrphone On
PH.BOOK  M  SPEAKER
```

```
      ☎


      Spkrphone
      Off

```
(timeout)

There are 2 ways to activate the speakerphone:
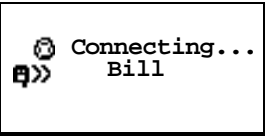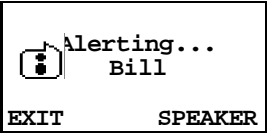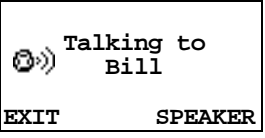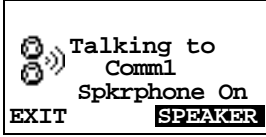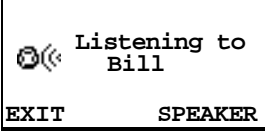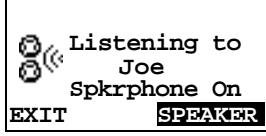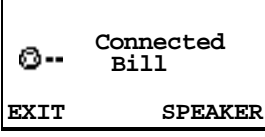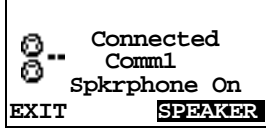
(1)   Press the dedicated speakerphone key on the top of the phone. Note: this is only available on the final V60p hardware. As such, your trial unit may not support this functionality.

or

(2) select the Speaker soft key (lower right corner) from the main display. Note: when right soft key is reverse highlighted, the speakerphone is on.

27

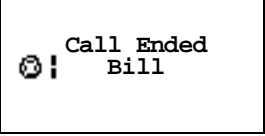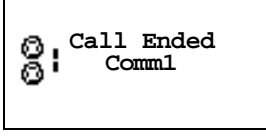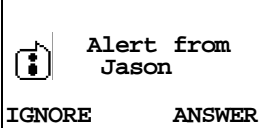# Section 10: PTT Calling States
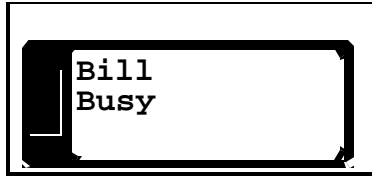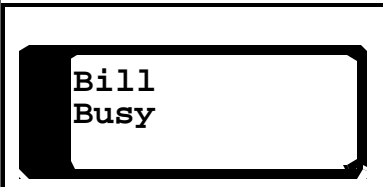
CLI - Flip Closed	Individual Call - Speakerphone Off	Group Call/Originator - Speakerphone On	**When Screen Appears**
| | ```
 Connecting...
    Bill
``` | ```
 Connecting
    Comm1
  Spkrphone On
``` | When starting a Barge call by holding down the PTT button. |
| **Bill**  "Alerting..." State | ```
 Alerting...
    Bill

EXIT      SPEAKER
``` | | When a PTT Alert call is placed. |
| **Bill**  "Talking To" State | ```
 Talking to
    Bill

EXIT      SPEAKER
``` | ```
 Talking to
    Comm1
  Spkrphone On
EXIT      SPEAKER
``` | When speaking to someone. |
| **Bill**  "Listening To" State | ```
 Listening to
    Bill

EXIT      SPEAKER
``` | ```
 Listening to
    Joe
  Spkrphone On
EXIT      SPEAKER
``` | When listening to someone speak. |
| **Bill**  "Connected" State | ```
 Connected
    Bill

EXIT      SPEAKER
``` | ```
 Connected
    Comm1
  Spkrphone On
EXIT      SPEAKER
``` | When connected to someone and floor is open. |
| **Call Ended**  "Call Ended" State | ```
 Call Ended
    Bill
``` | ```
 Call Ended
    Comm1
``` | When call has disconnected. |
| **Jason**  "Alert from" State | ```
 Alert from
    Jason

IGNORE    ANSWER
``` | | When a PTT Alert call is received. |
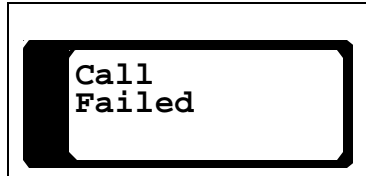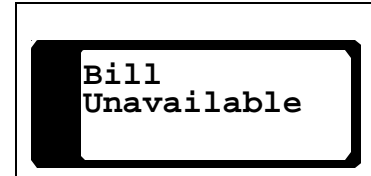
Section 11: PTT Error Messages

If user on PTT call

If the originator cannot access the network or server

If the user is offline, or on a voice call

```
Bill
Busy
```

```
Call
Failed
```

```
Bill
Unavailable
```

BARGES

If user does not respond, is off-line, on a voice call, the 20 second (recipient) timeout occurs or the 40 second (originator) timeout occurs
-OR-
if the recipient presses IGNORE immediately

If user on PTT call

If the originator cannot access the network or server

```
Bill
Busy
```

```
Alert
Failed
```

```
Bill
Unavailable
```

ALERTS

Section 12: V60p – Final Design

Speakerphone On/Off Button on top area

Existing V60x lens

Volume up/down button

PTT Button: Same material and color as side buttons

Speaker Vents molded in the plastic

Existing V60x battery door (800Ma battery door)

Core Increased 3.5mm in thickness from V60X design

End button with the power button functionnality added to it

Lens: same as V60X

2 way navi button: same as V60X

VR Button: same as V60X

Speaker Vents: molded in the plastic

Bell keypad similar to the V60x, but properly fitted to acomodate the speakerphone vents

Existing V60x flip

Elimination of Power button and merge with end button

30