ICOM

MDC 1200
Compatible

BIIS 1200
Compatible

OPERATING GUIDE

OPERATING GUIDE FOR BIIS 1200/MDC 1200/LTR® OPERATION

Icom Inc.

IMPORTANT

Thank you for purchasing this Icom radio. The BIIS 1200/MDC 1200/LTR® system functions are available to your IC-F5060/F6060 series radio.

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SAVE THIS OPERATING GUIDE— This operating guide contains important operating instructions for;
• **IC-F5061/F5062/F5063** VHF MOBILE TRANSCEIVERS
• **IC-F6061/F6062/F6063** UHF MOBILE TRANSCEIVERS

〴〵**NOTE:** In this operating guide, the LCD illustration is described using the 2 lines indication mode.

TABLE OF CONTENTS

1

■ Programmable function keys

The following functions for MDC 1200 system operation can be assigned to the programmable function keys;
[UP], **[DOWN]**, **[P0]**, **[P1]**, **[P2]**, **[P3]** and **[P4]**
Consult your Icom dealer or system operator for details concerning your transceivers programming.
If the programmable function names are bracketed in the following explanations, the specific key is used to activate the function depends on the programming.

◊ For BIIS 1200 operation only
DIGITAL BUTTON KEY
➡ Push to select the call ID list, transmit message and stand-by condition. Toggles between queue channel and received message record indication after queue channel is selected.
➡ Push and hold to select queue channel indication.

STATUS UP/DOWN KEYS
➡ While in the standby condition, push to display the transmit status indication and select a status number.
➡ When a received SDM is displayed, push to cancel the automatic scroll and scroll the message manually.
➡ When an SDM that contains more than 12 characters is displayed, push to scroll the message manually.

10 KEY ENTER KEY
Push to enable the connected microphone's 10-keypad operation.

◊ For MDC 1200 operation only
MDC CALL KEY
➡ Push to enter the MDC menu selection mode. Then select the desired MDC menu from "**SELCALL**," "**CALALERT**," "**STUN**," "**REVIVE**," "**RADIOCHK**," "**STATUS**", "**MSG**" and "**CALL LOG**" using **[CH Up]** or **[CH Down]**.
After selection, push this key again to enter the transceiver alias or message channel selection mode.
➡ While in the transceiver alias or message channel selection mode, push to return to the MDC menu selection mode.

MDC SELCALL KEY
Push to enter the transceiver alias selection mode.
• After the desired alias selection, push **[PTT]** to transmit a SelCall.

MDC CALLALERT KEY
Push to enter the transceiver alias selection mode.
• After the desired alias selection, push **[PTT]** to transmit a Call Alert.

◊ For LTR® operation only
PHONE KEY
Push to connect or disconnect the telephone network connection.

2 BIIS 1200 OPERATION

■ Default setting

The following functions are assigned to each programmable key as the default. However, the assigned function can be changed by your dealer. Ask your dealer for details.

NOTE:
• During digital mode operation, BIIS 1200 is not available.
• [TX Code Enter] must be assigned to a key.

[P0]; Call : Push to transmit a 5-tone/BIIS call when the selected channel is a 5-tone or MSK channel.

[P1]; Digital Button : Push to select the call list ID/transmit message, or to display the receive message record for selection.

[P2]/**[P3]**; Null : No function is assigned.

[P4]; Moni(Audi) : Push this key after the communication to send a 'Clear down' signal during MSK channel operation.

[Up]/**[Down]**; CH Up/Down
: While in the standby condition, push to select the operating channel.
After pushing [Digital] or [TX Code CH Select], push to select call list or TX code channel, respectively.

■ Receiving a call

◇Individual call

① When an individual call is received;
•Beeps sound.
•" ((•)) " appears and the mute is released.
•" ♣ " appears or blinks depending on the setting.
•The own ID (or text) and the calling station ID (or text) is displayed when the indication mode is 2 lines as below.
•The own ID (or text) and the calling station ID (or text) is displayed alternately when the indication mode is 1 line, depending on the setting.

Appears   Appears or blinks

    0001
    1234

Own ID   Calling station ID
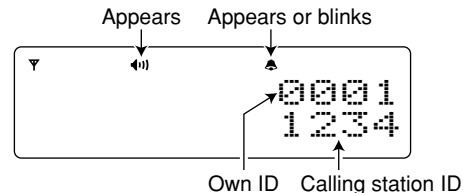
② Push and hold **[PTT]**, then speak into the microphone at a normal voice level.
•LED indicator lights red.
③ Release **[PTT]** to return to receive.
•LED indicator lights green while receiving a signal.
④ To finish the conversation, push **[P4]** (Moni(Audi)) to send the 'Clear down' signal.
•Either station can send a 'Clear down' signal.
•"CLR DOWN" is displayed for 2 sec. (approx.).
•" ((•)) " disappears and the transceiver returns to the standby condition.

2

◇Group call

① When a group call is received;
- Beeps sound.
- " ◀ı) " appears and the mute is released.
- " ♠ " appears or blinks depending on the setting.
- The group ID (or text) and the calling station ID (or text) is displayed when the indication mode is 2 lines as below.
- The group ID (or text) and the calling station ID (or text) is displayed alternately when the indication mode is 1 line, depending on the setting.

Appears   Appears or blinks

Group ID Calling station ID
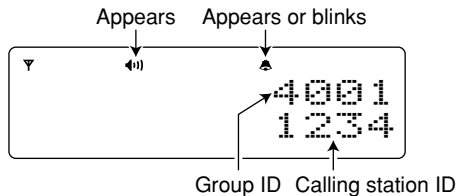
② Push and hold **[PTT]**, then speak into the microphone at a normal voice level.
- LED indicator lights red.

✍ **NOTE:** Only one station is permitted to speak.
③ Release **[PTT]** to return to receive.
- LED indicator lights green while receiving a signal.
④ To finish the conversation, push **[P4]** (Moni(Audi)) to send the 'Clear down' signal.
- Either station can send a 'Clear down' signal.
- "CLR DOWN" is displayed for 2 sec. (approx.)
- " ◀ı) " disappears and the transceiver returns to the standby condition.

◇Displaying the received call record — Queue indication

The transceiver memorizes the calling station ID in the memory. Up to 3 calls can be memorized, and the oldest call record is erased when a 4th call is received. However, once the transceiver is powered OFF, the all records are cleared.

① Push and hold **[P1]** (Digital) for 1 sec.
- Displays following indication.

When a record is available
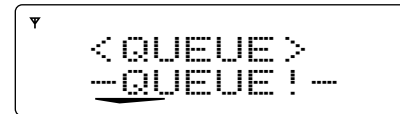
When no record is available
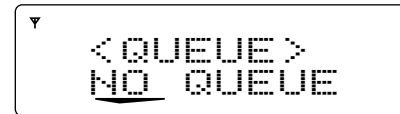
② Push **[Up]** or **[Down]** to select the desired call.
③ Push and hold **[P1]** (Digital) for 1 sec. again to return to the standby condition.
- When no operation is performed for 30 sec., the transceiver returns to the standby condition automatically.

■ **Transmitting a call**

A total of 3 ways for code selection are available—selecting the call code from memory, entering the call code from the keypad and calling back from the queue channel record.

◇ **Using call memory**

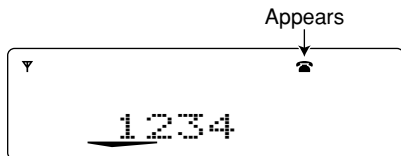① While in the standby condition, push **[P1]** (Digital) to enter the call code memory channel selection mode.
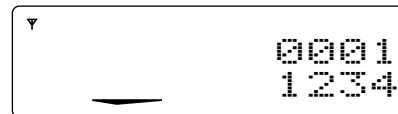   • " ☎ " appears.

Appears

② Push **[Up]** or **[Down]** to select the desired call code.
③ Push **[P0]** (Call) or **[PTT]*** to call.
   *PTT call can be made only when PTT call capability is permitted.

> **NOTE:** When no answer back is received, the transceiver repeats the call 3 times (default) automatically, and "WAIT" is displayed during each call. However, an error beep sounds and "FAILED" is displayed when no answer back is received after the calls.

④ Push **[PTT]** to transmit; release to receive.
⑤ Push **[P4]** (Moni(Audi)) to send the 'Clear down' signal.

◇ **Calling back from the queue channel**

① While in the standby condition, push and hold **[P1]** (Digital) for 1 sec. to enter the queue memory channel selection mode.
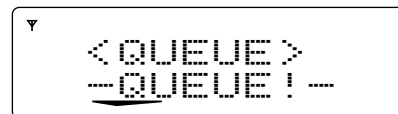
② Push **[Up]** or **[Down]** to select the desired record.

③ Push **[P0]** (Call) or **[PTT]*** to call.
   *PTT call can be made only when PTT call capability is permitted.

> **NOTE:** When no answer back is received, the transceiver repeats the call 3 times (default) automatically, and "WAIT" is displayed during each call. However, an error beep sounds and "FAILED" is displayed when no answer back is received after the calls.

④ Push **[PTT]** to transmit; release to receive.
⑤ Push **[P4]** (Moni(Audi)) to send the 'Clear down' signal.

◇**Direct code entry**

① While in the standby condition, push **[TX Code Enter]** to enter the TX code edit mode.
   •Code digit for editing blinks.

② Push **[TX Code Enter]** to select the desired digit to be edited.
   •Digit for editing differs according to the setting.
③ Set the desired digit using **[CH Up]** or **[CH Down]**.
④ Push **[TX Code Enter]** to set the digit, then the digit to the right will blink automatically.
⑤ Repeat ③ and ④ to input all allowable digits.
⑥ Push **[P0]** (Call) or **[PTT]*** to call.
   *PTT call can be made only when PTT call capability is permitted.

   ⊿**NOTE:** When no answer back is received, the transceiver repeats the call 3 times (default) automatically, and "WAIT" is displayed during each call. However, an error beep sounds and "FAILED" is displayed when no answer back is received after the calls.

⑦ Push **[PTT]** to transmit; release to receive.
⑧ Push **[P4]** (Moni(Audi)) to send the 'Clear down' signal.

For your information
When the "UpDate" setting for the call code is enabled, the set code is overwritten into the call code memory.

■ Receiving a message

◇Receiving a status message

① When a status message is received;
- Beeps sound.
- The status message and the calling station ID (or text) is displayed when the indication mode is 2 lines as below.
- The status message and the calling station ID (or text) is displayed alternately when the indication mode is 1 line, depending on the setting.

```
Y
RX Status 01
          1234
```
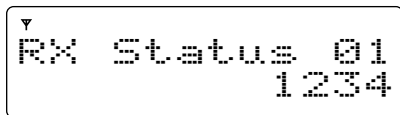
② Push **[P4]** (Moni(Audi)) to return to the standby condition.

///NOTE: When the indication mode is 1 line
Only the calling station ID (or text) is displayed (no message is displayed alternately) when the scroll timer is set to 'OFF.' In this case, push [Status Up]/[Status Down] to display the status message manually.

◇Receiving an SDM (Short Data Message)

① When an SDM is received;
- Beeps sound.
- " ✉ " appears.
- The SDM and the calling station ID (or text) is displayed when the indication mode is 2 lines as below.
- The SDM and the calling station ID (or text) is displayed alternately when the indication mode is 1 line, depending on the setting.

Appears

```
Y                    ✉
SDM 8
          1234
```
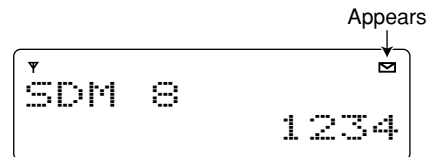
② When the received SDM includes more than 12 characters, the message scrolls automatically, when the automatic scroll function is activated.
- Push [Status Up]/[Status Down] to scroll the message manually.
- "**S**" appears.

Appears when the received SDM includes more than 12 characters.

```
Y                  s  ✉
SDM 12345678
          1234
```
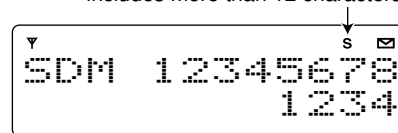
③ Push **[P4]** (Moni(Audi)) to return to the standby condition.

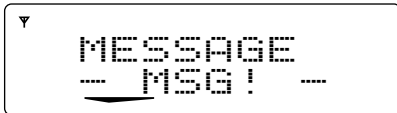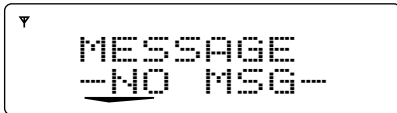## ◊ Received message selection

The transceiver memorizes the received message in the memory. Up to 6 messages for status and SDM, or 95 character SDM's can be memorized. The oldest message is erased when the 7th message is received. However, once the transceiver is powered OFF, all messages are cleared.

① Push and hold **[P1]** (Digital) for 1 sec.
  • Displays queue memory.
② Push **[P1]** (Digital).
  • Displays message memory.

When a message is available

```
 ▼
      MESSAGE
    — MSG!  —
    ___
```

When no message is available

```
 ▼
      MESSAGE
    —NO  MSG—
    ___
```

③ Push **[Up]** or **[Down]** to select the desired message.
  • When selecting the SDM that includes more than 12 characters, the message scrolls automatically when the automatic scroll function is activated.
  • Push [Status Up]/[Status Down] to scroll the message manually.

④ Push and hold **[P1]** (Digital) for 1 sec. again to return to the standby condition.
  • When no operation is performed for 30 sec., the transceiver returns to the standby condition automatically.

■ Transmitting a status

◇ General
The status message can be selected with the programmed text, and the message text is also displayed on the function display of the called station.

Up to 24 status types (1 to 24) are available, and the status messages 22 and 24 have designated meanings.

Status 22: Emergency*

Status 24: GPS request

*The status 22 can also be used as a normal status message by disabling the designated meaning. However, the status 24 is fixed.

The status call can be sent with both individual and group calls.

◇ Transmitting a status
① While in the standby condition, push **[P1]** (Digital), then push **[Up]** or **[Down]** to select the desired station/group code.

② Push **[P1]** (Digital) again, then push **[Up]** or **[Down]** to select the desired status message.

```
▼
    STATUS 01
TX Status 01
```
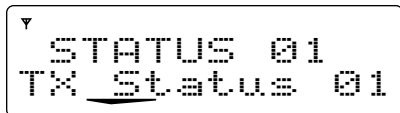
Status message is displayed.

③ Push **[P0]** (Call) or **[PTT]*** to transmit the status message to the selected station/group.

*PTT call can be made only when PTT call capability is permitted.

•2 beeps sound and the transceiver returns to the standby condition automatically when the transmission is successful.

■ Transmitting an SDM

◇ General
The short data message, SDM, can be sent to an individual station or group stations. Also, 8 SDM memory channels are available and the messages can be edited via PC programming.

◇ Transmitting an SDM
① While in the standby condition, push **[P1]** (Digital), then push **[Up]** or **[Down]** to select the desired station/group code.

② Push **[P1]** (Digital) again, then push **[Up]** or **[Down]** to select the desired SDM.

Appears

```
▼                        ✉
    MESSAGE  1
SDM  1
```

SDM is displayed.

③ Push **[P0]** (Call) or **[PTT]*** to transmit the SDM to the selected station/group.

*PTT call can be made only when PTT call capability is permitted.

•2 beeps sound and the transceiver returns to the standby condition automatically when the transmission is successful.
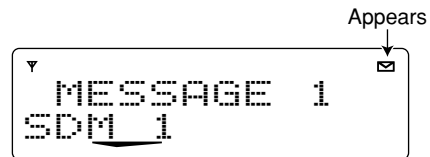
■ Position data transmission

When the GPS receiver is connected to the transceiver, the position (longitude and latitude) data can be transmitted automatically.
Ask your dealer or system operator for connection details.

The position data is transmitted when;
- Status 24 message is received
  *When the status 24 message, GPS request, is received.
- Fully automatic
  When automatic position transmission is enabled, send the position data according to 'Time Marker' and 'Interval Timer' settings.
- PTT is released
  When 'Send with Logoff' is enabled.
  - Set the 'Log-In/Off' item as 'L-OFF.'
- After sending a status message
  When 'Send with Status' is enabled.
- After sending an SDM
  When 'Send with SDM' is enabled.
- After sending status 22 (Emergency)
  When 'Send with Emergency' is enabled.

■ Printer connection

When the printer is connected to the D-sub 25-pin of the transceiver, the received SDM content and the called station ID can be printed out. Ask your dealer or system operator for connection details.

■ Digital ANI

The own ID can be transmitted each time the PTT is pushed (log-in) or released (log-off) during individual or group call communications.
By receiving the ANI, the communication log can be recorded when using a PC dispatch application.

In addition, when using the ANI with log-in, the PTT side tone function can be used to inform you that the ID is sent and voice communication can be performed.

■ Auto emergency transmission

When **[Emergency Single (Silent)]** or **[Emergency Repeat (Silent)]** is pushed and held, an emergency signal is automatically transmitted after the specified time period has passed.

The status 22 (Emergency) is sent to the selected ID station, and the position data is transmitted after the emergency signal when a GPS receiver is connected to the transceiver.

The emergency transmission is performed on the emergency channel, however, when no emergency channel is specified, the signal is transmitted on the previously selected channel.

There is no change in the function display or beep emission during automatic emergency transmission.

■ Stun function

When the specified ID, set as a killer ID, is received, the stun function is activated.

When the killer ID is received, the transceiver switches to the password required condition. Entering of the password via the keypad is necessary to operate the transceiver again in this case.

■ BIIS indication

The following indications are available for the BIIS operation on an MSK channel.

CONNECT : Individual/group call is successful.
OK   : Message (status or SDM) transmission is successful.
FAILED   : No answer back is received.
WAIT   : Appears during retry of the call (2nd call).
CLR DOWN : End the communication.
BUSY   : Operating channel is in the busy condition.

■ Priority A channel selection

When one of the following operations is performed, the transceiver selects the Priority A channel automatically.

Priority A is selected when;
 • Clear down signal is received/transmitted
  - Set the 'Clear down' item as 'Enable' in 'Move to PrioA CH.'
 • Turning the power ON
  The Priority A channel is selected each time the transceiver power is turned ON.
 • Status call
  The Priority A channel is selected when transmitting a status call.
  - Enable the 'Send Status on PrioA CH' item in the MSK configuration.

■ Horn output

Automatic honking function is available when the horn honk equipment is connected to D-Sub 25-pin of the transceiver. When a status message is received, the transceiver controls the vehicle's horn for the specified time period to inform a status message is received.

This function is convenient when the operator away from the transceiver.

Ask your dealer or system operator, or refer to the service manual for connection and setting details.

■MDC 1200 system operation

The MDC 1200 signaling system enhances your transceiver's capabilities. It allows PTT ID, Selective Calling (SelCall), Call Alert, Radio Check, Stun, Revive, Status, Messaging and Emergency signaling.

An additional feature of MDC 1200 found in Icom transceivers is called aliasing. Each transceiver on the system has a unique ID number. Aliasing allows the substitution of an alphanumeric name for this ID number. For transmit, you can use this alias to select a transceiver to call. For receive, the alias of the calling station is displayed instead of the ID.
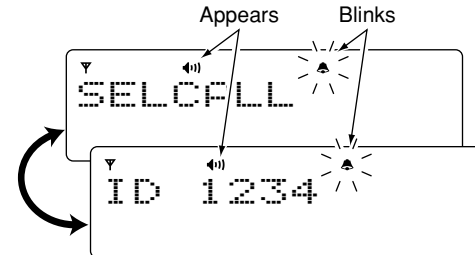
Please note that your dealer has set one of the programmable keys (**[UP]**, **[DOWN]**, **[P0]**, **[P1]**, **[P2]**, **[P3]** and **[P4]**) for MDC 1200 operation.

NOTE: During digital mode operation, MDC 1200 is not available.

■Receiving a call

◇Receiving a SelCall
① When a SelCall is received;
  • Beeps sound.
  • "◀))" appears.
  • "♣" blinks.
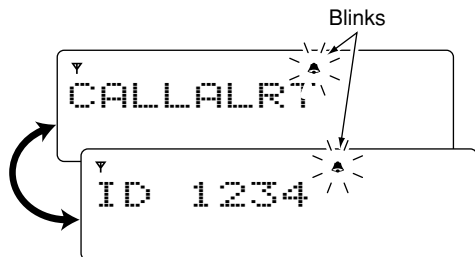 • The calling station ID (or alias) and "**SELCALL**" are displayed alternately.

Appears   Blinks

② Push and hold **[PTT]** and speak into the microphone.
③ Release **[PTT]** to receive a response.

◇Receiving a Call Alert

① When a Call Alert is received;
- Beeps sound.
- " ♣ " blinks.
- The calling station ID (or alias) and "**CALLALRT**" are displayed alternately.

Blinks

```
CALLALRT
  ID 1234
```

② Push and hold **[PTT]** and speak into the microphone.
③ Release **[PTT]** to receive a response.

◇Receiving a Emergency Call

① When an emergency call is received;
- Beeps sound.
- The calling station ID (or alias) and "**EMG EMG**" are displayed alternately until turning power OFF, the channel changing, etc.

```
ID 1234
  EMG EMG
```
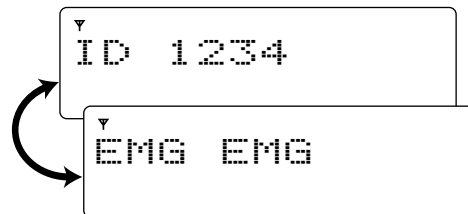
② When the automatic acknowledgement function is turned ON, the transceiver automatically transmits an acknowledgement call to the station.
- The calling station stops calling.
③ Turn power OFF, change the channel, etc. to stop the beep and display indication.

◇ Receiving a Message

① When a Message is received;
  • Beeps sound.
  • The calling station ID (or alias) and the message are displayed alternately.

```
▼
ID  1234
```

```
▼
MSG  1
```
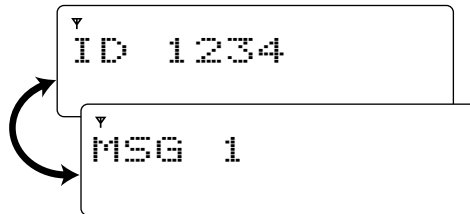
② Turn power OFF, push **[PTT]**, change the channel, etc. to stop the display indication.

◇ Receiving a Status Message

➡ When a Status Message is received;
  • Beeps sound.
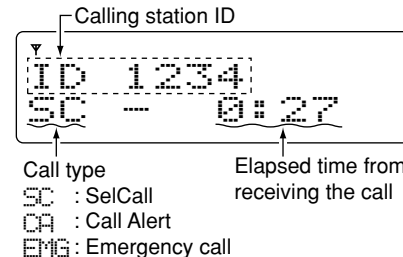 • The calling station ID (or alias) and the status message are displayed once.

```
▼
ID  1234
```

```
▼
STATUS1
```
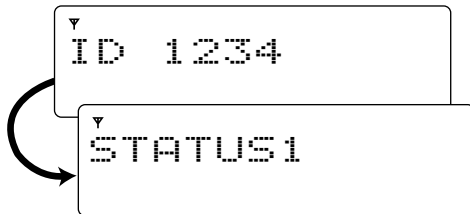
◇ Receiving a Stun or Revive

If a Stun command is received that matches your station ID, the transceiver will display "SORRY" and you can not receive or transmit. When a Revive command is received that matches your station ID, normal operation is restored.

◇ Call log function

After receiving the SelCall, Call Alert and Emergency call, the call logs are displayed (depends on the setting.) Up to 5 logs can be memorized, and the oldest log is erased when a 6th call is received.

① Push **[MDC Call]** to enter the MDC menu selection mode.
② Select "**CALL LOG**" using **[CH Up]** or **[CH Down]**.
③ Push **[MDC Call]** again to indicate the call logs.
  • When no call is received, error beep is emitted.

Calling station ID

```
▼
ID  1234
SC  -    0:27
```

Call type   Elapsed time from
SC : SelCall   receiving the call
CA : Call Alert
EMG : Emergency call

④ Push **[CH Up]** or **[CH Down]** to select the desired call log memory.

**NOTE:** 1000 hours has passed from receiving the call, the elapsed time is reset to 0:00.

■ Transmitting a call

◇ Transmitting a SelCall
SelCall allows you to make a call to a specific station or to a particular group. Other MDC 1200 transceivers on the channel will not receive a SelCall that does not match their station or group ID's.

① Push **[MDC Call]** to enter the MDC menu selection mode.
  • Or push **[MDC SelCall]** to enter the transceiver alias selection mode. In this case, skip step ②.
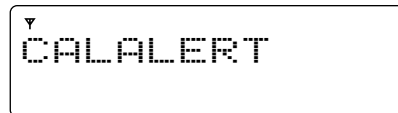
```
  ▼
  SELCALL
```
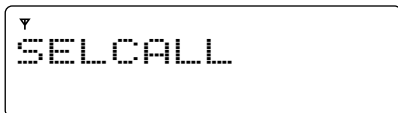
② Push **[MDC Call]** again to enter the transceiver alias selection mode.
③ Select the desired alias using **[CH Up]** or **[CH Down].**
④ Push and hold **[PTT]** to transmit the SelCall to the selected station, then speak into the microphone.
  • "◀))" appears.
⑤ Release **[PTT]** to receive.

◇ Transmitting a Call Alert
Call Alert allows you to notify another user who may be away from the transceiver that you want to talk.

① Push **[MDC Call]** to enter the MDC menu selection mode.
  • Or push **[MDC CallAlert]** to enter the transceiver alias selection mode. In this case, skip steps ② and ③.
② Select "**CALALERT**" using **[CH Up]** or **[CH Down]**.

```
  ▼
  CALALERT
```

③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
④ Select the desired alias using **[CH Up]** or **[CH Down]**.
⑤ Push **[PTT]** to transmit the Call Alert to the selected station.
  • "**CA CALL**" is displayed.
⑥ Release **[PTT]**.
  • "**CA OK**" is displayed if the targeted station received the alert.
  • "**CA FAIL**" is displayed if the targeted station does not send an acknowledgement.
⑦ After a specified time period has passed, the transceiver will return to receive.

◇**Transmitting a Stun Call**
Stun call allows you to send MDC 1200 signal that will stun the targeted station.

① Push **[MDC Call]** to enter the MDC menu selection mode.
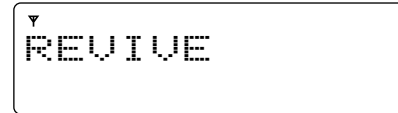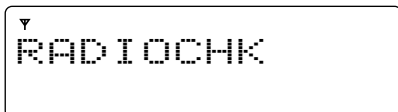② Select "**STUN**" using **[CH Up]** or **[CH Down]**.

```
 ▼
STUN
```

③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
④ Select the desired alias using **[CH Up]** or **[CH Down]**.
⑤ Push **[PTT]** to transmit the stun call to the selected station.
  • "**STN TX**" is displayed.
⑥ Release **[PTT]**.
  • "**STN ACK**" is displayed if the targeted station is turned ON, on channel and within range.
  • "**STN FAIL**" is displayed if the targeted station does not send an acknowledgement.
⑦ After a specified time period has passed, the transceiver will return to receive.

◇**Transmitting a Revive Call**
Revive call allows you to send MDC 1200 signals that will revive the targeted (stunned) station.

① Push **[MDC Call]** to enter the MDC menu selection mode.
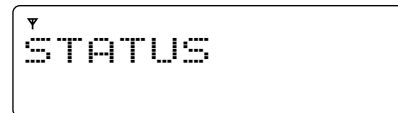② Select "**REVIVE**" using **[CH Up]** or **[CH Down]**.

```
 ▼
REVIVE
```

③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
④ Select the desired alias using **[CH Up]** or **[CH Down]**.
⑤ Push **[PTT]** to transmit the revive call to the selected station.
  • "**REV TX**" is displayed.
⑥ Release **[PTT]**.
  • "**REV ACK**" is displayed if the targeted station is turned ON, on channel and within range.
  • "**REV FAIL**" is displayed if the targeted station does not send an acknowledgement.
⑦ After a specified time period has passed, the transceiver will return to receive.

◊ Transmitting a Radio Check Call

Radio check call allows you to determine whether another transceiver is turned on, within range and on channel without requiring any action from the targeted station user.

① Push **[MDC Call]** to enter the MDC menu selection mode.
② Select "**RADIOCHK**" using **[CH Up]** or **[CH Down]**.

```
▼
RADIOCHK
```

③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
④ Select the desired alias using **[CH Up]** or **[CH Down]**.
⑤ Push **[PTT]** to transmit the radio check call to the selected station.
  • "**RDO CHK**" is displayed.
⑥ Release **[PTT]**.
  • "**CHK ACK**" is displayed if the targeted station is turned ON, on channel and within range.
  • "**CHK FAIL**" is displayed if the targeted station does not send an acknowledgement.
⑦ After a specified time period has passed, the transceiver will return to receive.

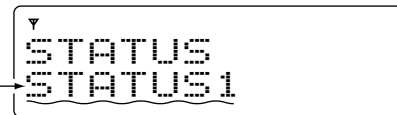## ◊ Transmitting a Status Message

Status Messaging allows you to send a pre-programmed status message. There are 16 status codes that can be sent. In addition, the dispatcher can send an MDC 1200 signal that causes the transceiver to automatically transmit its current status.

① Push **[MDC Call]** to enter the MDC menu selection mode.
② Select "**STATUS**" using **[CH Up]** or **[CH Down]**.

```
▼
STATUS
```

③ Push **[MDC Call]** again to enter the status message selection mode.

Pre-programmed status message is displayed. →
```
▼
STATUS
STATUS1
```

④ Select the desired status message using **[CH Up]** or **[CH Down]**.
⑤ Push **[PTT]** to transmit the selected status message.
  • "**STAT TX**" is displayed.
⑥ Release **[PTT]**.
  • "**STAT OK**" is displayed.
  • "**STA FAIL**" is displayed if there is no acknowledgment from the dispatcher.
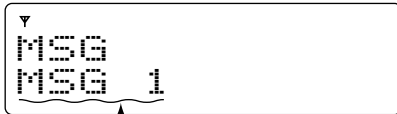⑦ After a specified time period has passed, the transceiver will return to receive.

◇Transmitting a Message
The transceiver can send a pre-programmed message. There are 16 messages that can be sent on a channel.

① Push **[MDC Call]** to enter the MDC menu selection mode.
② Select "**MSG**" using **[CH Up]** or **[CH Down]**.

```
MSG
```

③ Push **[MDC Call]** again to enter the pre-programmed message selection mode.

```
MSG
MSG 1
```

Pre-programmed message is displayed.

④ Select the desired message using **[CH Up]** or **[CH Down]**.
⑤ Push **[PTT]** to transmit the selected message.
  • "**MSG TX**" is displayed.
⑥ Release **[PTT]**.
  • "**MSG OK**" is displayed.
  • "**MSG FAIL**" is displayed if there is no acknowledgment from the dispatcher.
⑦ After a specified time period has passed, the transceiver will return to receive.

◇PTTID Calls
The transceiver can send an MDC 1200 signal that includes PTTID when **[PTT]** is pushed (beginning of transmission) and released (end of transmission). If a PTTID call is received, the transceiver will display the calling station ID (or alias) and emit a beep*.
*Depends on the setting.

◇Emergency Calls
The MDC 1200 Emergency feature can be accessed using the **[Emergency Single]** or **[Emergency Repeat]** key (described in the instruction manual). The transceiver will repeatedly send an Emergency MDC 1200 command for a programmed length of time until it receives an acknowledgement signal.

The emergency call can be transmitted without a beep emission and LCD indication change depends on the setting.
With MDC 1200 Emergency, the transceiver can also be programmed to keep the microphone open during an emergency call, allowing monitoring of the situation.
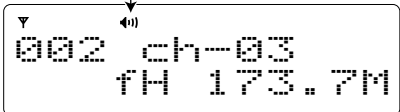Ask your dealer for details.

LTR® OPERATION

■ Receiving a call

◇ Group call
① Push **[CH Up]** or **[CH Down]** to select the LTR® system channel or talk group.
② When a call is received;
  • LED indicator lights green.
③ Push and hold **[PTT]**, then speak into the microphone at a normal voice level.
④ Release **[PTT]** to return to receive.

◇ Selective call (DTMF call)
① Push **[CH Up]** or **[CH Down]** to select the LTR® system channel or talk group.
② Push **[Call]** to mute the channel.
③ When receiving a call, the calling station name appears and a beep is emitted. Then the mute is released.
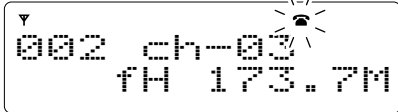 • " 📢 " appears.

Appears

```
▼            ◀))
002 ch-03
     fH 173.7M
```

◇ Phone call
① Push **[CH Up]** or **[CH Down]** to select the phone channel of LTR® system channel.
  • " ☎ " appears.
② When a phone call is received (transceiver rings), push **[Phone]** (or push **[PTT]**).
  • " ☎ " blinks.

Blinks

```
▼        ☎
002 ch-03
     fH 173.7M
```

③ Push and hold **[PTT]**, then speak into the microphone at a normal voice level. Release **[PTT]** to return to receive.
④ After conversation is finished, push **[Phone]** to disconnect the phone call.
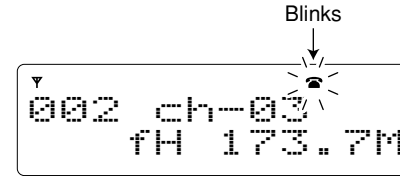 • " ☎ " stops blinking.

■ Transmitting a call

◇ Group call

① Push **[CH Up]** or **[CH Down]** to select the LTR® system channel or talk group.

② While pushing and holding **[PTT]**, speak into the microphone at a normal voice level after a beep is emitted.
  • If an error beep is emitted, release **[PTT]**. After a while, repeat step ②.
  • The beep can be turned OFF in User set mode.

◇ Selective call (DTMF call)

① Push **[CH Up]** or **[CH Down]** to select the LTR® system channel or talk group.

② Push **[DTMF Autodial]**— a DTMF encode channel appears.

③ Push **[CH Up]** or **[CH Down]** to select the desired DTMF encode channel.

④ Push **[PTT]** to transmit the selected DTMF code in the selected DTMF channel.
  • Push **[DTMF Autodial]** to cancel the DTMF transmission.

◇ Phone call

① Select the phone channel of LTR® system channel.
  • " ☎ " appears.

② Push **[Phone]** (or push **[PTT]**).
  • " ☎ " blinks.

Blinks

```
  ▼
002 ch-03
      fH  173.7M
```

③ Push **[DTMF Autodial]** to make a phone call.

④ After conversation is finished, push **[Phone]** to disconnect the phone call.
  • " ☎ " stops blinking.

NOTE: During the LTR operation, MDC system functions are also available. See pgs. 11 to 17 for details of the MDC operation.

Count on us!