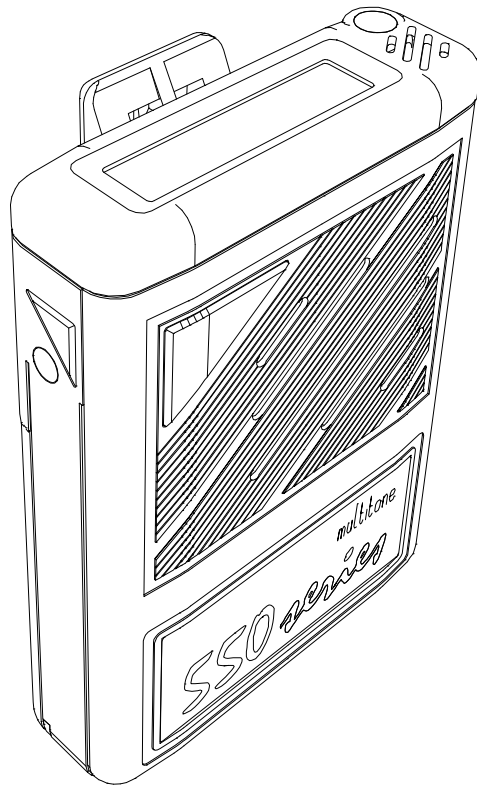


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USER GUIDE
for the
RPR 550 SERIES RADIO PAGER
including
INTRINSICALLY SAFE VERSIONS

Part No. 9261-1085 Issue 2

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1. IMPORTANT USER INFORMATION

Radio Reception

Your pager has been designed to give optimum performance within the coverage area of the transmitter system. In common with any radio system there may be areas of poor coverage where signal reception is not always possible.

Hazardous Areas

Only Intrinsically Safe versions of the product are suitable for use in hazardous areas as defined by BS 5345 Part 1 (1976) and Part 2 (1983), or as defined by your supplier.

Safety

As a normal safety precaution your pager should not be carried into areas where explosive gases or dusts etc may be present. Intrinsically Safe versions of RPR 550 Series pagers are available from Multitone for use in hazardous areas and details of these can be obtained from your distributor or directly from Multitone.

Care of Your Pager

Protect your pager from liquids, strong magnetic fields and extreme temperatures. Please do not leave your pager exposed to strong sunlight, inside cars or on window ledges.

Service

If your radio pager should need repair return it to the designated location. Do not attempt to open or repair the pager as special equipment is required. Repair should only be performed by qualified personnel in authorised workshops.

2. CONTROLS AND DISPLAY

Contains Data for
Postscript Only.

3. HOW TO SWITCH YOUR PAGER ON

To switch on your pager press the ON/Cancel/Recall (OCR) button. The lamp display and beep self-test routine follows. Next the pager will display its address followed by an optional switch-on message.

To assure you the pager is switched on an icon 'O' will appear on the display and remain until the pager is switched off.

4. HOW TO SWITCH YOUR PAGER OFF

To switch off your pager press the recessed off button. This will bring the word 'off' onto display and switch the pager off after approximately 2 seconds. If the pager is Intrinsically Safe, the word 'off' is not displayed, the pager goes off immediately.

CONTINUOUS OR ON-DEMAND DISPLAY OF STATUS MESSAGES

Your pager may be programmed to show its status information continuously, or on demand. If on demand is selected, the display is normally blank except for the icon.

5. RECEIVING CALLS

Your pager is equipped to receive tone, alphanumeric and speech calls.

NOTE: *Speech is not available on RPR 550D variants.
The backlight is not fitted to Intrinsically Safe variants of RPR 550 pagers.*

When any call is received by your pager the red alert lamp flashes, an alert tone sounds (not in mute mode) and the pager will vibrate if this option is fitted. By pressing the OCR button this alert sequence is cancelled (i.e. it terminates the lamp, tone and vibration). A message is displayed for all types of calls received by your pager and is prefixed either by a time stamp or message number dependent on your system.

Initially the message is displayed without backlight until any button is pressed. End of message on the display is indicated by **.

```
+))))))))) ,
*11:00           Speech ***
*or M1          *
.)))))))))) -
Example of a    On receipt
message number  of speech
time stamp.    only call.
```

Receiving a Tone Call

Your pager receives up to 8 different tone calls each with a distinctive beep pattern. When a tone call is received the pager displays the tone call number for the full alert duration. If the alert is cancelled by pressing the OCR button the message is displayed for a further 2.5 seconds with backlight switched on.

```
+))))))))) ,
*12:00 tone     *
.)))))))))) -
+))))))))) ,
*call 4**      *
.)))))))))) -
```

Example of a tone call on beep code 4 received at 12.00 noon.

NOTE: *The backlight is not fitted to Intrinsically Safe variants of RPR 550 pagers.*

Receiving a Call with an Alphanumeric Message

When the total length of the message including the stamp or message number is less than or equal to 14 characters, this is displayed for the full alert duration if uncanceled. If the alert is cancelled, the message is displayed for a further 2.5 seconds with backlight switched on.

```
+)))))))))))))))))))))))))) ,
*M1 ring 436** *
.)))))))))))))))))))))))))) -
```

Example of a message less than 14 characters long.

If the message is longer than 14 characters, it is scrolled through to the end automatically at 1.25 second intervals per screen, but pausing for 2.5 seconds on the final screen. This is repeated until the end of alert.

The Mute button may be used to speed up, slow down or repeat the message viewing process. If Mute is pressed and held the message remains at the current screen; to advance to the next screen immediately, release the Mute button.

```
+)))))))))))))))))))))))))) ,
*M2 Your *
.)))))))))))))))))))))))))) -
+)))))))))))))))))))))))))) ,
*visitor has *
.)))))))))))))))))))))))))) -
+)))))))))))))))))))))))))) ,
*arrived *
.)))))))))))))))))))))))))) -
+)))))))))))))))))))))))))) ,
*early ** *
.)))))))))))))))))))))))))) -
```

Example of a message larger than 14 characters.

The viewing process can be repeated by successive presses of the mute button.

NOTE: *The backlight is not fitted to Intrinsically Safe variants of RPR 550 pagers.*

Receiving a Call with a Speech Message

Your pager acts as for a call with a text message, unless it is a speech only call, when a few seconds after the alerting starts the display shows `speech'; the speech channel automatically opens and you hear a spoken message. The speech channel is closed after a predetermined time or on receipt of an audible speech termination signal.

When speech is being received it can be terminated by pressing the OCR button twice and re-opened by a further press of the OCR button.

When speech has ended and the message has been stepped through completely the display will return to normal (quiescent) mode.

(* 550D pagers are not fitted with speech capability).

If calls received remain uncanceled your pager will enter extended alert mode if this option is enabled in your pager.

6. FINDING OUT PAGER STATUS

Your pager is equipped to display its current status to you on demand. Press the OCR button once. This will cause status > to be displayed, followed by status messages in priority order. Each status message is conditional as described below:

<u>Status Message</u>	<u>Condition</u>
1 New message	Message(s) with new status exist
2 New messages	
*Out-of-Range	When pager is not within range of receiving calls for 3.5 minutes minimum.
*Low Battery	Battery voltage is low.
*Time or Date & Time	Dependent on options for your pager.
*Mute	Pager in Mute mode.
On	No other status messages to display.

***NOTE:** *Your pager has to be programmed to receive these optional messages.*

7. ACCESSING MESSAGES FROM MEMORY

Your pager automatically stores up to five messages. To recall messages from memory press the OCR button twice. The most recent unviewed message is displayed prefixed by 'M1' or the time at which it was received. When the memory is full a new message erases the oldest one. Each call is designated as having new status when first received. This is removed by cancelling the alert sequence (press the OCR button during the alert period) or by accessing the call from memory.

At the point of entry into memory replay, the pager displays the header (first line) of the first message. Successive presses of the OCR button cause the pager to step through headers of any remaining messages in the memory. The display will show "No Messages" if there are none, and subsequently the pager will return to quiescent mode - ready to receive calls.

To view a full message press the OCR button successively until you step through to the header of that message. The full message will scroll through automatically to the end terminating in **.

During memory replay your pager displays any new messages first. It is then possible to replay all the messages in memory. To allow more time to read a current screen, when the Mute button is pressed and held, the message is held. Releasing the Mute button causes the next message screen to be displayed immediately.

8. PAGING WITH A DISCREET ALERT (MUTE MODE)

Your pager receives calls and alerts you discreetly (without audible bleep) when in MUTE alert mode. To change to mute alert mode, press and hold the Mute button. A single pip followed by two pips are heard. The display shows `Mute' to confirm this change. Release the Mute button. To return to normal alert mode press and hold the Mute button until you hear two pips followed by a single pip and the display has changed from `Mute' to `On'.

This Mute facility may be optionally disabled on your pager.

9. REVERSING MESSAGES DISPLAYED

The direction of messages displayed can be reversed for current viewing from the wearing position (top pocket or belt). To achieve this press the mute button during the display of pager status information (see paragraph 6).

10. OPTIONAL FEATURES OF YOUR PAGER

Your pager may be fitted with the following options.

Group Alert

Your pager may be operated as part of a team. If so any team call to your group alerts you audibly even if you have your pager in Mute Mode.

Extended Alert

This is an additional alert sequence which acts as a reminder if the original alert is not cancelled. The LED lamp flashes to indicate a call not cancelled and a short pip is sounded every two minutes. The pager vibrates if the option is fitted. Press the OCR button to stop extended alert and display the most recently received message.

Escalating Alert

The escalating alert mode allows the tone alert to start at a low level and increase in volume so the user can stop the alert before it gets louder by pressing the OCR button once.

Vibrate Alert

This option provides an additional discreet alert in the form of a vibration which alternates on and off for two seconds through the alert period. The vibrating part is a module which sits in the battery compartment in place of the standard 'AA' cell along with a 'N' size battery.

Out-of-Range

If you enter areas of poor radio coverage on your site the pager display will advise you by indicating Out-of-Range and optionally sounding a 2 second quiet buzz. Pressing OCR when the pager is out of range causes a warning buzz to be heard.

Low Battery Warning

This option is valid when your pager uses disposable batteries.

To indicate the battery is low, switch on tone is modulated with a buzz and any alerts sounded by your pager are also modulated with a buzz tone. 'Low battery' status message appears on the pager display when interrogating pager status. If your pager is fitted with the display on continuously and low battery happens to be the top priority status message it is shown continuously on the display.

As a further option your pager may be equipped to generate a 2 second buzz and display the low battery status message for 4 seconds whenever the pager enters low battery condition. Once low battery warning has been triggered the battery should then be changed as soon as possible, although the pager will continue to operate for approximately 24 hours. When a battery is changed messages stored in the pager will be lost.

Time-of-Day

The display shows Time-of-Day provided the pager is in quiescent mode, i.e. switched on and ready to receive calls and is not out of range.

```

+)))))))))) ,
*          12:05          *
.)))))))))) -
    
```

Example of a display at 12:05 in quiescent mode.

Message Time Stamp

All messages received bear a time stamp prefix if this option is fitted to your pager. If not the message will bear a number stamp prefix, i.e. M1, M2 etc., up to M5.

```

+)))))))))) ,
*10:01 Time          *
.)))))))))) -
+)))))))))) ,
*call Y              *
.)))))))))) -
    
```

11. TAKING CARE OF YOUR PAGER BATTERY

Use high capacity Alkaline or Nickel Cadmium `AA' cells in your pager (or `N' type if a vibrate option is fitted). If your pager is of the Intrinsically Safe type you must only use the following battery types and carry out all battery changes in non-hazardous areas.

BATTERY TYPE	SIZE	APPLICATION
Ever Ready R6S	AA	Disposable
Multitone P501	N	Rechargeable* and Vibrate rechargeable
Multitone P550	N	Vibrate disposable

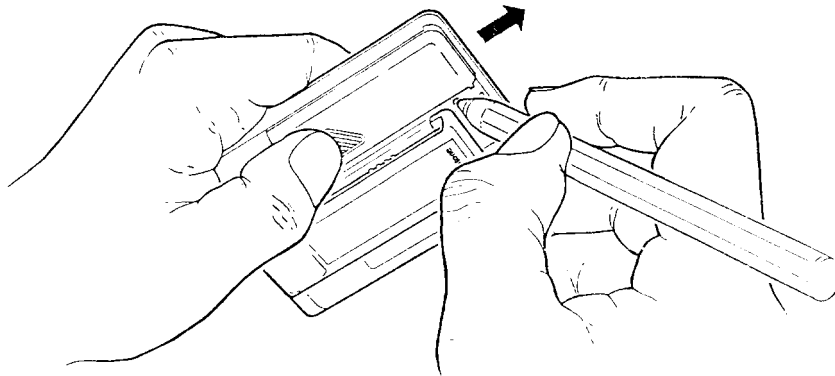
*To use this battery type in non-vibrate pagers, fit moulding supplied with pager in battery compartment.

To obtain maximum life from your battery cancel alerts quickly and switch off your pager when it is not in use. If your pager is not to be used for a month or more you should remove your battery.

The battery replacement procedure is as follows:

1. Switch the pager off by pressing the recessed off button.
2. Hold the pager as shown and insert a small pointer in the hole.
3. While pressing this pointer down slide the battery door out with your thumb.
4. Remove the old battery, fit a new one with + terminal facing towards the bottom of the case.
5. Slide the battery door back in position along the moulded slots in the case.

12. **CAUTION** 



Recharging of your Intrinsically Safe pager (if fitted with rechargeable batteries) must only be carried out in a non-hazardous area. A3RO and A3RP charging units are approved for charging RPR 550IS radio pagers. The definition of hazardous areas can be found in BS 5345 Part 1 (1976), Part 2 (1983). Your supplier may also be referred to for this information.

Remove discharged batteries as soon as possible from the radio pager to prevent damage from corrosion due to a leaking battery.

13. HOW YOUR PAGER BEHAVES WHEN PUT IN AN ABSENCE AND CHARGING RACK

Your pager does not accept paging calls in a rack. The display shows a pre-programmed message up to 9 characters, or alternatively, your user number along side the pre-programmed message e.g.

```
+))))))))))))))))))))))))))))))),  
*Absent 12345 *  
.)))))))))))))))))))))))))))))))-  
Where `absent' a is pre-programmed message.
```

To confirm the battery is being charged the alert lamp is illuminated at half brightness.