

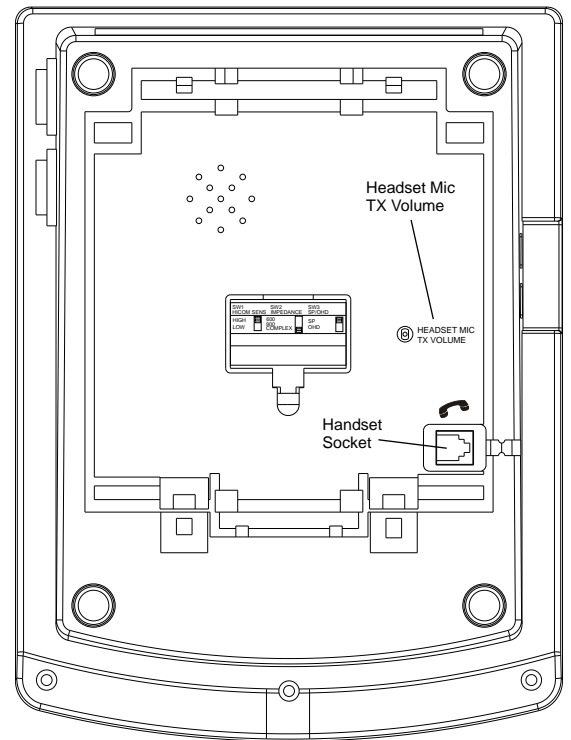
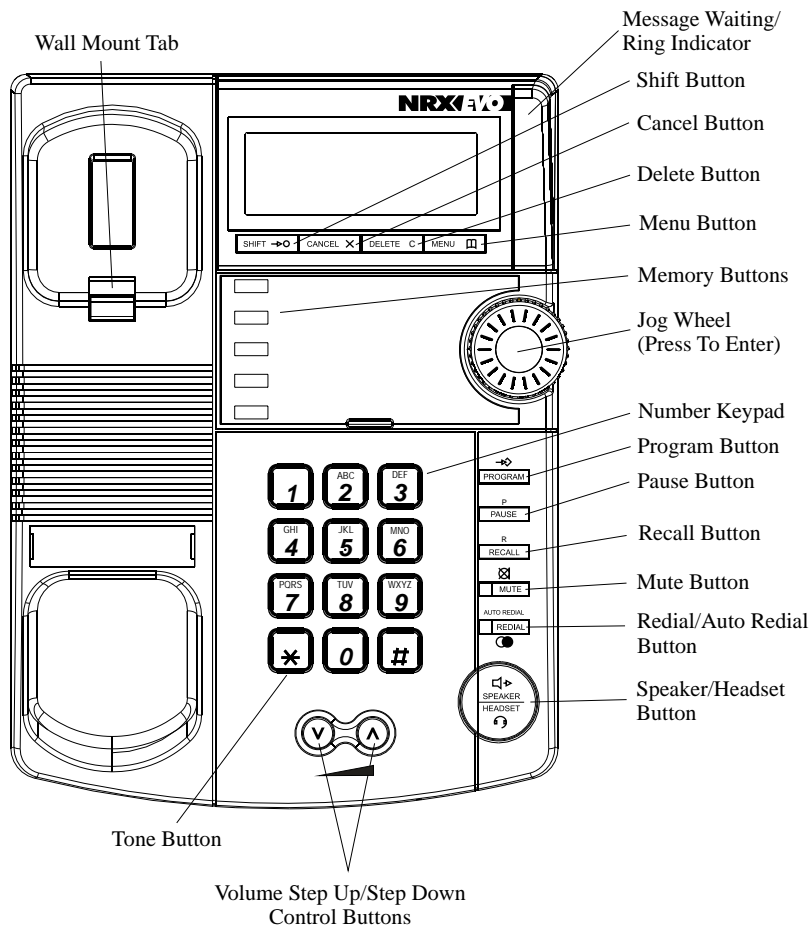
# NRX EVO



## NRX EVO 450 USER GUIDE

www.nrx-telecom.com

# The layout of your NRX EVO 450



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# Installation & Telephone Set-Up

## 1. INSTALLATION

- Connect one end of the coil cord to the handset and the other end to the socket located in the bottom of the phone. Replace the handset to the cradle.

**NOTE: You will need to remove the wall mount bracket to access this socket.**

- Connect the small plug (RJ-11) of the telephone line cord to the socket at the back of the unit and the other plug to the telephone socket at the wall.

**NOTE:** If the RJ-11 to RJ-11 line cord is used, please ensure that the Blue plug is connected to the wall socket.

- Connect the AC adaptor into a standard 220-240VAC mains socket and the power socket at the back of the NRX EVO 450.

- The display will show **00-00-00**. After about 4 seconds the display will show **TOTAL:00 NEW:00**

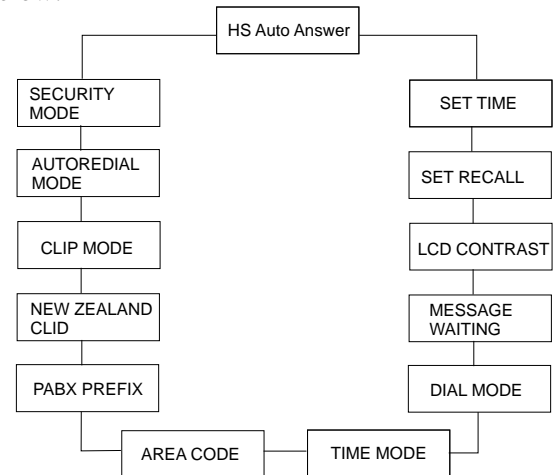
- If you have subscribed to a Caller ID Service, the time and date will be automatically updated when the first call is received. Otherwise, it is necessary to set the time and date manually, please refer to the Telephone Setup Menu.

In case of power failure or accidental unplugging of the AC adaptor, the built-in EEPROM will retain all the telephone's memory including phone book and CID records.

## 1.2 Telephone Set-Up

In standby mode, press the **MENU** button twice, the display will show **SYSTEM**.

Turning the jog wheel will switch among the various setting modes of the Main System Menu loop as shown below:



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# Telephone Set-Up

### • Set Time

Scroll to 'SET TIME' on the System Menu and then press the Jog Wheel. Turn the Jog Wheel to the desired time and date pressing the wheel for confirmation after setting HOUR, MINUTE, DATE & MONTH.

### • Set Recall

Scroll to 'SET RECALL' on the System Menu and then press the Jog Wheel. Scroll to TBR (Timed Break Recall) or EARTH (Earth Recall) then press the Jog Wheel to confirm.

If TBR is selected, after pressing the Jog Wheel you will need to select the TBR timing (100ms to 1200ms). Once again press the Jog Wheel to confirm your selection. The standard setting for the UK is normally 100ms.

**NOTE:** By default your NRX EVO 450 is factory set at TBR 100ms.

### • LCD Contrast

Scroll to 'LCD CONTRAST' on the System Menu and then press the Jog Wheel. Select the desired LCD contrast then press the Jog Wheel again. The default

setting is 3.

### • Message Waiting Type

Scroll to 'MESSAGE WAITING' on the System Menu options and then press the Jog Wheel. Scroll to one of the Following options then press the Jog Wheel:

- AT & T/ALCATEL
- HIPATH
- 90V DC
- LINE REVERSAL
- FSK/DTMF MWI
- ERICSSON MD-110

If Line Reversal is selected - Select Polarity Normal, Polarity Reversal or OFF and then press the Jog Wheel again. This should be set to OFF if Line Reversal is not required.

For the other message waiting options - Select ON or OFF and then press the Jog Wheel. They should be set to OFF if not required. If Siemens Hicom/Hipath is selected the Hicom Sensitivity switch (SW1) on the base of the telephone should be set 'Low'. At all other times this should be switch to 'High'.

### • Dial Mode

Scroll to 'DIAL MODE' on the System Menu and then press the Jog Wheel. Select either Tone or Pulse dialling then press the Jog Wheel again.

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# Telephone Set-Up & Operation

## • Time Mode

Scroll to 'TIME MODE' on the System Menu and then press the Jog Wheel. Select either 24 Hour or 12 Hour time format and then press the Jog Wheel again. The default setting for the telephone is 24 Hour format.

## • Area Code

1. Scroll to 'Area Code' on the System Menu and then press the Jog Wheel.
2. If no area code is programmed into the unit then 'ADD AREA CODE ?' will be displayed on the screen.
3. Press the Jog Wheel again.
4. You will now be prompted to 'ENTER AREA CODE'.
5. Enter using the keypad then press Jog Wheel.

If you select 'Area Code' from the system menu when an area code has already been programmed into the unit then 'CHG AREA CODE' appears on the display together with the area code already entered.

- To change the code press the Jog Wheel, enter new code using the keypad then press the Jog Wheel again.
- To delete the code press the Jog Wheel twice.

## • PABX Prefix - To allow Caller ID numbers to be stored into the Phonebook with the correct prefix to allow direct dialling

1. Scroll to 'PABX Prefix' on the System Menu and then press the **SELECT** button.
2. If no PABX Prefix is programmed into the unit then 'ADD PABX CODE ?' will be displayed on the screen.
3. Press the Jog Wheel again.
4. You will now be prompted to 'ENTER PABX CODE'.
5. Enter using the keypad then press the Jog Wheel.

If you select 'PABX Prefix' from the system menu when a PABX Prefix has already been programmed into the unit then 'CHG PABX CODE' appears on the display together with the code already entered.

- To change the code press the Jog Wheel, enter the new code using the keypad then press the Jog Wheel again.
- To delete the code press the Jog Wheel twice.

## • New Zealand CLID - This will automatically add a Zero to the Caller ID number when the number is 8 digits or more.

Scroll to 'New Zealand CLID' on the System Menu

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# Operation

And then press the Jog Wheel. Turn to the desired setting 'ON' or 'OFF' then press the Jog Wheel to confirm.

## • Clip Mode

Scroll to 'CLIP MODE' on the System Menu and then press the Jog Wheel. Turn the Jog Wheel to the desired setting 'FSK MODE' or 'DTMF MODE' and press the wheel to confirm.

## • Autoredial Mode

To set the Autoredial parameters, scroll to 'Autoredial Mode' on the System Menu and then press the Jog wheel to set the number of times the telephone will autoredial and the frequency of the redials, pressing the wheel to select each time.

## • Security Mode

The NRX EVO 450 can be put into a security mode that is designed to protect the user if using telephone banking or other similar services. After the initial number has been dialled, if there is a delay of more than 5 seconds then further numbers are entered e.g Your banking password, then a \* will appear on the screen instead of the number. The additional numbers will also not be stored in the Last

Number Redial memory.

To set the security mode, scroll to 'Security Mode' on the System Menu and then press the Jog Wheel. Select 'Security ON' or 'Security OFF' and press the Jog Wheel again.

## • HS Auto Answer Mode

The NRX EVO 450 has a headset auto answer facility. Scroll to 'HS Auto Answer' on the system menu then press the Jog Wheel. Select the desired setting 'ON' or 'OFF' then press the Jog Wheel again. When this facility is turned on and a headset is connected, the phone will automatically answer any new calls and connect them to the headset.

## 2. OPERATION

### 2.1 Dialling

Lift the handset and dial the number.  
To terminate a phone call, simply replace the handset.

### 2.2 Volume Control

Handset or Headset mode:  
During the call, pressing volume buttons once will

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# Operation

decrease or increase the volume level respectively.

- There are 4 levels for handset or headset receivers.
- The volume level, steps from 1 to 4 and will be showed on the LCD when adjusting.
  - **Volume 1** is the lowest level
  - **Volume 4** is the highest level

On Hook Dialling mode:

- During the call, pressing the volume buttons once will decrease or increase the volume level respectively.
- There are 8 levels for the speaker.
- The volume level, steps from 1 to 8, will be showed on the LCD when adjusting.
  - **Volume 1** is the lowest level
  - **Volume 8** is the highest level

## 2.3 Telephone Ringer

The ringer volume and pitch can be adjusted via the two slide switches on the right side of the NRX EVO 450.

The ringer volume can be set to Off, Low or High levels depending on the position of the switch. There is an LED ring indicator inside the red lens. This indicator is independent of the ringer volume switch position.

While the phone is ringing, you can adjust the ringer tone of your telephone by moving the ringer pitch switch.

## 2.4 Direct Memory Buttons

5 one-touch speed dial numbers and 5 two-touch speed dial numbers can be programmed into the memory of your phone.

Each memory location can store a maximum 32 digits phone number and a maximum 15 letters for name.

1. Press the Jog Wheel.
2. Enter the phone number using the keypad
3. Press the Jog Wheel
4. Enter the memory name using the keypad i.e To enter 'A' press the 2 button once, to enter 'B' press the 2 button twice etc.
5. Press then memory button (Use the SHIFT button to access the second bank of memories). During the memory storage procedure, you may wish to press the **PAUSE** button to insert a pause between numbers. A "P" will show on the LCD to indicate a 2 second pause in the dialling sequence. Each pause counts as one digit.

There are four different ways to dial a stored speed dial

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# Operation

number, depending on your preference.

1. Pick up the handset and press the desired memory button
2. Press the **SPEAKER/HEADSET** button and then press the desired memory button.
3. Press the desired memory button and check the LCD shows the correct information. Press the **SPEAKER/HEADSET** button. (Predialing mode)
4. Press the desired memory button and check the LCD shows the correct information. Pick up the handset. (Handset Predialing mode).

If the one-touch or two touch memory button pressed has not been stored with a number, the LCD will show ----- and **EMPTY** and no dialling action will be made.

## 2.5 Phonebook

The NRX EVO 450 can store up to 100 of your frequently used names and numbers.

To add a contact in the Phone Book:

1. Press **MENU** button once and the display will show **PHONE BOOK XX**, where XX denotes the number of phone book records stored.

2. Press the Jog Wheel and the display will show **ADD CONTACT?**. Press the Jog Wheel again will enter the editor mode.

3. Enter the desired number using keypad. When number is displayed correctly, (up to 32 digits can be stored). Press Jog Wheel to end the number entry and start name entry.
4. Use the keypad letter to enter the name, press the key until the correct letter is displayed. When correct letter is displayed, move on to the next letter if it is on another key. If you want to enter two successive letters that are on the same key, you can turn the Jog Wheel to move the cursor or wait for 2 seconds after the first letter has been shown and the cursor moves to the next space.

At the end of the name entry (maximum 15 letters), press Jog Wheel to save this record. The display will enter the editor mode again.

If you want to add another record to the phone book, repeat step 3 & 4. Up to 100 phone book records are allowed. If the entering action has been completed, press **CANCEL** key twice.

If the total stored number of records has reached 100, the display will show **PHONE BOOK FULL**. It will

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# Operation

It will not be possible to add another record without deletion of existing records.

## To copy a CLID record into the Phone Book:

1. Press the menu scroll buttons to select a desired CLID record.
2. Press **SELECT** button to enter the editor mode.
3. Use menu scroll buttons or **DELETE** button to edit the number, if necessary. Press the **SELECT** button will leave the editing of the CLID number and enter into the CLID name editing mode.
4. Use the keypad to enter the name then press the **SELECT** button again to save the record into phone book.

If the total stored number of records has reached 100, the display will show **PHONE BOOK FULL**. It will not be possible to add another record without deletion of existing records

## To copy the last dialled number into the Phone Book:

1. Press **REDIAL/PAUSE** button, the last number dialled will be showed on the LCD.
2. Press **SELECT** button to enter the editor mode.
3. Turn the Jog Wheel and use the **DELETE** button

to edit the number, if necessary. Press Jog Wheel again.

4. Use the keypad to enter the name and then press the Jog Wheel.

## To review the Phone Book:

Press **MENU** button once and the display will show **PHONE BOOK XX**, where XX denotes the number of phone book records stored. Use the menu scroll buttons to scroll through the phone book records. The records will be displayed in alphabetical order.

## To search for a specific record:

Press **MENU** button once the display will show **PHONE BOOK XX**. Use the keypad to enter the contact name or the starting letter of the name then press the Jog Wheel.

The number and the name of the first matched record will be displayed.

## To dial a number in the phone book:

When a record is showing on the LCD, pick up handset or press the **SPEAKER/HEADSET** button.

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# Operation

The desired number will be dialled.

## To delete a number in the phone book:

1. Press **MENU** button once the display will show **PHONE BOOK XX**.
2. Search for the record you want to delete until it is shown on the display.
3. Press the **DELETE** button once, and the display will show **DELETE ?**,
4. Press the Jog Wheel once to confirm.

## 2.6 Caller ID

To make use of these features, you must first subscribe to Caller ID Service.

- 99 Caller ID records

When you use this telephone with the Caller ID service, the NRX EVO 450 enables you to see the less the call is blocked or is from a silent number) when the phone rings. Up to 99 most recent received calls' records, together with their time and the date information, are stored. Each call is numbered in the call history, number of the calling party (unless the call is blocked or is from a silent number) when the phone rings. Up to 99 of the most recent received

calls records, together with their time and the date information, are stored. Each call is numbered in the call history,

- New call notification

When a new call is received, the time, date and calling number of this call will be displayed between the first and second ring. The **NEW CALL** LCD icon will appear when the phone has received a new CLID. It will remain on until all new call information in the call history has been reviewed.

- New call review

To review the new calls:

1. Turn the Jog Wheel to review the new calls
2. When all new calls have been reviewed, the **NEW CALL** icon will disappear.

- Caller ID record summary

The display will show the Caller ID's record summary as **TOTAL:XX**, where XX is the total number of calls stored in the memory. The display will also show the number of new calls received as **NEW:YY**, where YY is the number of new calls.

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- Call review

To review all the calls in the CLID call log, turn the Jog Wheel.

- Deleting a call from the call history

It is possible to delete a call in the call log by turning the Jog Wheel until the screen displays the information you wish to delete. Press the **DELETE** button once, the displayed call record will be deleted and the next CLID information will be displayed on the screen.

- Speed dialling from the Caller ID call log

Turn the Jog Wheel to scroll through the call log. When the desired number is shown, press the **SPEAKER/HEADSET** button or pick up the handset. The telephone will dial the displayed call log number.

## 2.7 Privacy (Mute)

Press the **MUTE** button to turn off the transmission of the speech to the telephone line from the handset microphone in handset mode or headset microphone in headset mode or base microphone in speakerphone

mode. Press the **MUTE** button again to resume the conversation with the calling party.

## 2.8 Redial/Auto Redial

To redial the last dialled number, pick up the handset or press the **SPEAKER/HEADSET** button, then press the **REDIAL** button. The telephone will automatically redial the last number dialled. Alternatively, press the **REDIAL** button while the NRX EVO 450 is off-line, the display will show the last dialled number and its call duration. Pick up the handset or press the **SPEAKER/HEADSET** button, the telephone will automatically dial the last number dialled.

To enter Auto Redial mode, press the Redial button twice, the LED will light to confirm you have enter Auto Redial mode. The phone will now keep redialling the last dialled number (as setup in the system menu) until the call is connected or the maximum number of attempts is exceeded.

## 2.9 Pause

If the **PAUSE** button is pressed between numbers, a "P" will show on the LCD to indicate a 2 second pause in the dialling sequence.

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## 2.10 Recall Facility

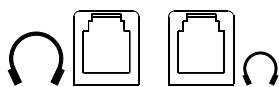
The NRX EVO 450 has a Recall facility which is used to access network/PBX services.

To use this facility pick up the handset or press the **SPEAKER/HEADSET** button then press the **RECALL** button.

See Telephone Set-Up for Recall types available and set-up.

## 2.11 Dual Headset Facility

The NRX EVO 450 comes fitted with two headset ports. These are located on the left side of the cabinet and allow a supervisor headset to also be connect to the phone for training or monitoring purposes if required. and allow a supervisor headset to also be connect to the phone for training or monitoring purposes if required.



The 'SPEAKER/ HEADSET' button enables you to use the telephone without lifting the handset. Connect a headset and by simply pressing the 'SPEAKER/ HEADSET' button once, you will be connected to the

line. Pressing the 'SPEAKER/HEADSET' button again will disconnect the telephone line and terminate the call.

During a headset (handsfree) conversation, lifting the handset will switch the unit to the handset mode. The headset will be disabled and the handset should be used for conversation instead. The headset mode will be activated again by pressing the 'SPEAKER/ HEADSET' button and replacing the handset.

The NRX EVO 450 is designed to work with a wide variety of different headsets. The headset microphone sensitivity can be adjusted via a rotary control located on the base of the unit.

## 2.12 Speakerphone/On Hook Dialling

The 'SPEAKER/HEADSET' button allows the user to operate the telephone without lifting the handset. Press the 'SPEAKER/HEADSET' button once, then operate the telephone as normal. Communication with the party at the other end of the telephone line is possible using the built in Microphone and Speaker. It is possible to switch from Handset to Speaker during a call, by pressing the 'SPEAKER/HEADSET' button then replacing the handset. The speakerphone




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microphone can be disabled by a switch located on the base of the telephone. Switching this to 'OHD' will allow the user to dial a number by pressing the 'SPEAKER/HEADSET' button but the handset will need to be used once the call has been connected.

**NOTE:** Speakerphone/OHD can only be used when a headset is not connected to the telephone.

## 2.13 Receiver Volume

It is possible to adjust the receiver volume on the telephone handset by pressing the  volume buttons.

## 2.14 Headset Stand (Option)

The NRX EVO 450 is fitted with a headset stand socket at the back of the telephone. An optional NRX EVO Headset stand can be purchased that when fitted not only provides a convenient place to store your headset, but also gives light indication of when the telephone is ringing and 'In Use'.

## 2.15 Hearing Aid Compatibility

The handset receiver is hearing aid compatible.

## 3. WALL-MOUNTING THE UNIT

The NRX EVO 450 can be wall mounted using the wall mount bracket installed on the bottom of the unit.

- Dismount the wall mount bracket from the unit.
- Placing the wall mount bracket to the required position on the wall
- Drill two holes on the wall according to the distance as marked by two mounting holes.
- Install the two screws supplied with the unit in the wall.
- Re-install the wall mount bracket to the bottom cabinet for the wall mount position.
- Position the wall mount slots on the bracket of the unit over the two screws on the wall. Pull down and lock into place.
- Beneath the earpiece section of the cradle you will find a small tab. Pull this up to form the hook for the handset.
- When you are on the telephone, you sometimes need to put the handset down for a moment. There is a special hook at the back (top) of the unit so that you can hang the handset on the unit, when it is wall-mounted, without terminating the call.

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# Approved Use

## 4. APPROVED USE

The NRX EVO 450 can be connected to the Public Switched Telephone Network (PSTN) and compatible to PABX's but not connected in the following manner: -

1. As an extension to a payphone.
2. On shared service line or 1+1 carrier system.

### Network Compatibility

The NRX EVO 450 has been approved pursuant to European harmonized standards:

#### **Health & Safety:**

EN60950-1:2001 (+A11:2004)  
EN50371:2002

#### **Electromagnetic Compatibility:**

EN55022:2006 emissions  
EN55024:1998 + A1:2001 immunity.

#### **Telecom:**

ES 203021 Parts 1, 2 & 3  
TBR38

## 5. THE NUMBER OF TELEPHONES THAT MAY BE CONNECTED

If you connect too many telephones to your line they may not ring correctly. To determine the number of telephones that can be satisfactorily connected to your line, add together the ringer equivalent numbers (RENs) of all the equipment you wish to connect. If this number exceeds four, your telephones may not ring. Your NRX EVO 450 telephone has an REN of one (1). BT telephones have an REN of one unless otherwise marked.

## 6. WARRANTY

Trojan Telecom has built the NRX EVO 450 telephone to a high standard. Our warranty reflects our belief that during its working life you should not experience any mechanical failures.

Trojan Telecom will at all times use a sensible and supportive attitude towards warrantable returns, working with you in identifying 'no fault found'. The following terms and conditions apply:

- 1) Where we find a genuine warranty failure, Trojan Telecom will replace the faulty instrument with a one-for-one replacement.

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# Warranty

- 2) It is the responsibility of the user to return the faulty telephone to Trojan Telecom. We ask you to cover this cost and we will return your replacement telephone at our expense.
- 3) We reserve the right to repair the faulty item or replace it with a similar telephone of the same make.
- 4) Discontinued models under warranty will be replaced with a similar or more featured telephone.
- 5) We reserve the right to charge for items considered to be chargeable under fair wear and tear.
- 6) User misuse or any modification carried out to the NRX EVO telephone by the customer is not considered a manufacturing fault or component defect. Therefore it is not covered by the warranty.
- 7) Accidental damage such as liquid spillage or user damage will not be covered under the terms of the warranty.
- 8) When returning the telephone please ensure you fully complete the returns authorisation form, failure to do so could cause you unnecessary delay.

The terms of this warranty do not effect your statutory rights.  
Warranty applies to UK customers only.

Faulty units should be returned to our service centre at the following address, together with the completed return form on the opposite page.

SERVISCOMM  
UNIT 2, RED BARNES WAY  
McMullen Road, Darlington  
DL1 2RR UK

# Warranty

## Returns Authorisation Form

Customer Details:

Address: ..... Tel No: .....

..... Fax No: .....

..... Account No: .....

Date Of Purchase	Model No.	Details Of Fault

Trojan Telecom's full liability will extend to the cost of repair or complete replacement of the returned item only.

**Trojan  
Telecom**



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