The *Windcrest* STNAD1000-EN Autodialler Voice Links for Lifts for Stannah Lifts Ltd

Common to all equipment

The Phone line (Analogue on 2 wires) goes to the Main unit and it is thereafter switched to any specific Speaker box assembly. Speech synthesis prompts are provided to assist and reassure the passenger, hence all wires have to be connected.

Main voltage (230V ac) is used and all normal safety considerations must be given in accordance with current IEEE regulation. The product complies with EMC regulations and BT Approvals. (Use Screened & Twisted Cable for all installations. However, acceptable results have been obtained using standard cable.)

These instructions are "Fast Track" information for Engineers and further information can be obtained from our offices on request.

1 STNAD1000-2EN Installation

Main Unit Installation in Motor/Pump room

Advantages	-Easy to Work with
	-Easy access to re-programme unit
	-Mains and Phone Line access
Disadvantages	-10 wires required to Lift car
	-Have to Extend Speaker box cable
	-May require terminal blocks

Main Unit Installed On Top of the Lift Car

Advantages	-2 wires required to Motor/Pump room
	-Installer has access to equipment only
	-Plug & Socket installation
Disadvantages	-Cramped working conditions
	-Connecting to Mains

Connection

See Diagram.
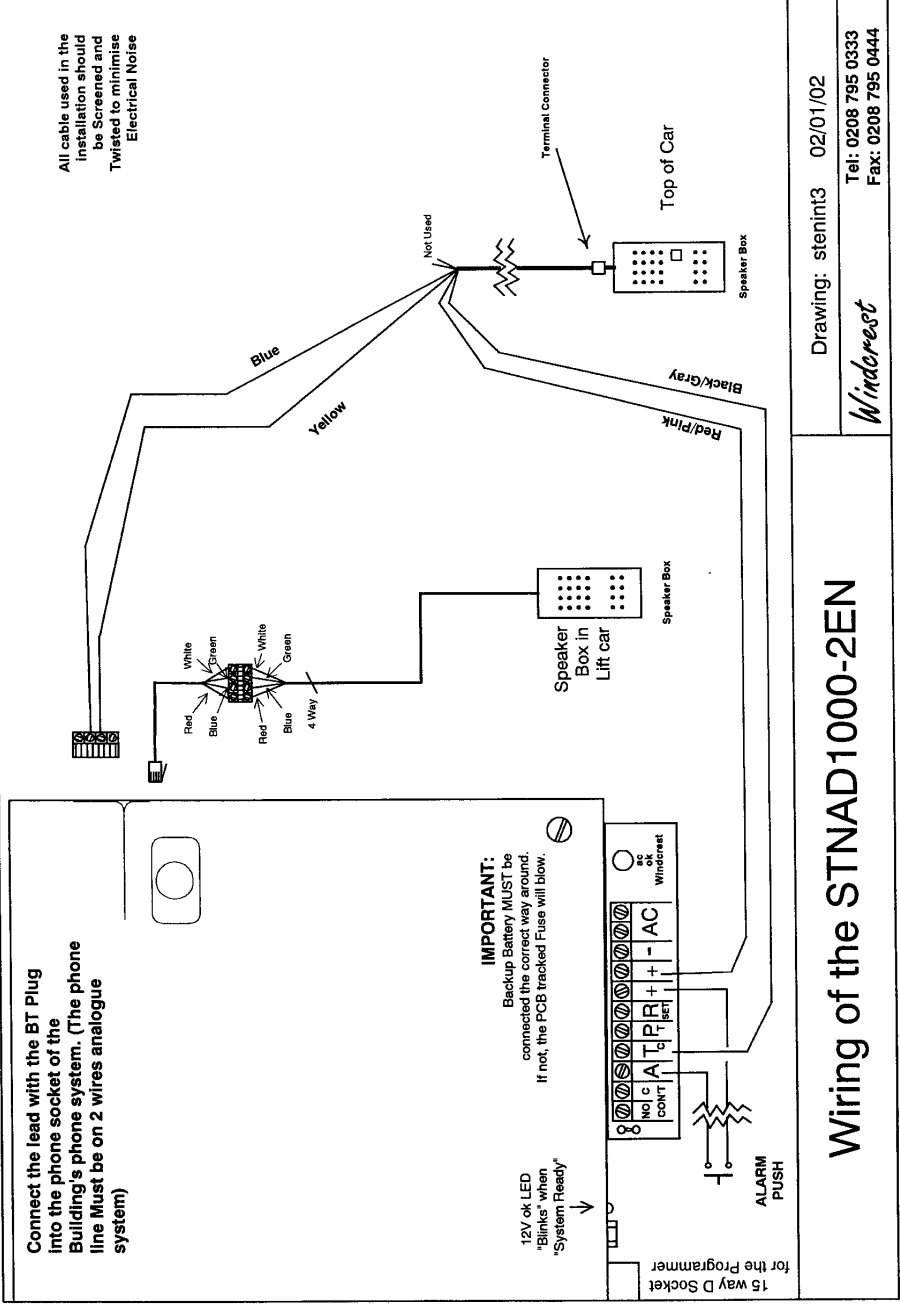
2. STNAD1000-3EN Installation

Install the Main Unit in the Motor/Pump room

Install the Main unit near or on the Lift Controller, so that the intercom facility can be operated whilst operating the Lift by the Controller.

See Diagram.

All cable used in the installation should be Screened and Twisted to minimise Electrical Noise

Terminal Connector

Top of Car

Not Used

Speaker Box

Blue

Yellow

Black/Gray

Red/Pink

White
Green
White
Green
Red
Blue
Red
Blue
4 Way

Speaker Box in Lift car

Speaker Box

Connect the lead with the BT Plug into the phone socket of the Building's phone system. (The phone line Must be on 2 wires analogue system)

IMPORTANT:
Backup Battery MUST be connected the correct way around.
If not, the PCB tracked Fuse will blow.

sc ok
Windcrest

No c A T P R + + - AC
CONT c SET

12V ok LED
"Blinks" when
"System Ready"

ALARM
PUSH

15 way D Socket
for the Programmer

Wiring of the STNAD1000-2EN

Windcrest

Drawing: stenint3   02/01/02

Tel: 0208 795 0333
Fax: 0208 795 0444

Wiring of the STNAD1000-3EN

All cable used in the installation should be Screened and Twisted to minimise Electrical Noise

All other unconnected terminals shown, may be pre-wired

CAR/D	CAR/S	C	PIT/D	PIT/S	P	TOP/D	TOP/S	T	p	t	MR/S	-	-	+	+

Speech Synthesis Prompts

Blue 3
Green 4
Red 2
White 5

IMPORTANT:
Backup Battery MUST be connected the correct way around. If not, the PCB tracked Fuse will blow

Connect the lead with the BT Plug into the phone socket of the Building's phone system. (The phone line Must be on 2 wires analogue system)

ac ok Windcrest

NO c CONT
A c T c P R + + - AC
SET

12V ok LED "Blinks" when "System Ready"

15 way D Socket for the Programmer

ALARM PUSH

White
Red/Pink
Blue
Yellow
Green
Black/Gray

Junction Box

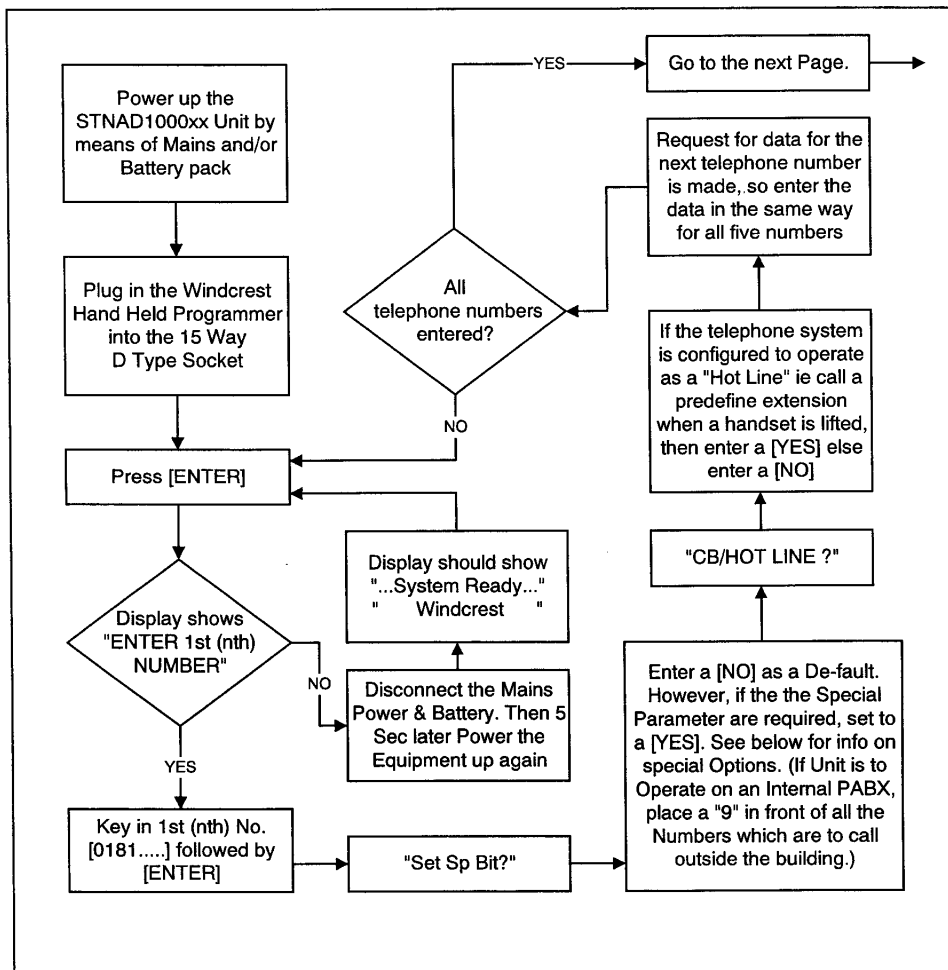Top of Car

Speaker Box

BT Socket

Use Terminals 2,3,4,&5

Lift car

Speaker Box

Drawing: enint_1   20/12/99

Tel: 0208 795 0333
Fax: 0208 795 0444

Windcrest

Programming the Unit

The STNAD1000-EN series of Autodiallers can be Programmed using the Hand-Held Programmer or by Calling into the Unit and Remotely Programming the Numbers etc. The Programmer will be needed to Fault Find and for changing the Remote Programming Access (RPA) Number, which will be set to 1234 as a factory de-fault.

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┌─────────────────────────┐                              ┌──────────────────────┐
│     Power up the        │          ──YES──────────────▶│  Go to the next Page.│──▶
│  STNAD1000xx Unit by    │                              └──────────────────────┘
│  means of Mains and/or  │
│     Battery pack        │                              ┌──────────────────────┐
└─────────────────────────┘                              │ Request for data for │
            │                                            │ the next telephone   │
            ▼                                            │ number is made, so   │
┌─────────────────────────┐                              │ enter the data in    │
│  Plug in the Windcrest  │                              │ the same way for all │
│ Hand Held Programmer    │          ◇                   │ five numbers         │
│    into the 15 Way      │    All telephone numbers     └──────────────────────┘
│    D Type Socket        │◀─────  entered?                         ▲
└─────────────────────────┘          ◇                   ┌──────────────────────┐
            │                        │                    │ If the telephone     │
            ▼                        NO                   │ system is configured │
┌─────────────────────────┐                              │ to operate as a "Hot │
│    Press [ENTER]        │◀────────────────             │ Line" ie call a      │
└─────────────────────────┘                              │ predefine extension  │
            │                                            │ when a handset is    │
            ▼                                            │ lifted, then enter a │
         ◇                  ┌────────────────────┐       │ [YES] else enter a   │
   Display shows            │ Display should show│       │ [NO]                 │
  "ENTER 1st (nth)          │ "...System Ready..."│       └──────────────────────┘
     NUMBER"                │ "    Windcrest    " │                 ▲
         ◇         NO       └────────────────────┘       ┌──────────────────────┐
         │                           ▲                   │   "CB/HOT LINE ?"    │
         │          ┌────────────────────────┐           └──────────────────────┘
        YES         │ Disconnect the Mains   │                      ▲
         │          │ Power & Battery. Then 5│           ┌──────────────────────┐
         ▼          │ Sec later Power the    │           │ Enter a [NO] as a    │
┌─────────────────┐ │ Equipment up again     │           │ De-fault. However, if│
│ Key in 1st (nth)│ └────────────────────────┘           │ the the Special      │
│ No. [0181.....] │      ┌──────────────┐                │ Parameter are        │
│ followed by     │─────▶│ "Set Sp Bit?"│───────────────▶│ required, set to a   │
│ [ENTER]         │      └──────────────┘                │ [YES]. See below for │
└─────────────────┘                                      │ info on special      │
                                                         │ Options. (If Unit is │
                                                         │ to Operate on an     │
                                                         │ Internal PABX, place │
                                                         │ a "9" in front of all│
                                                         │ the Numbers which are│
                                                         │ to call outside the  │
                                                         │ building.)           │
                                                         └──────────────────────┘
```

From Previous page

"ENTER Contract No"
This can be an ID number of the Lift or the Lift's Telephone number which will be announced to the person who receives the call.
Key 0181.. followed by [ENTER]

"ENTER LIFT No"
The lift number to be announced in a group (numbers 1 to 9 only)

"ENTER RPA No"
Remote Programming Access Number to allow Remote Programming

"CALL DURATION ?"

Enter duration of call in full minutes; 1 to 4 followed by [ENTER]

"PULSE DIALLING?"

A [NO] will cause the STNAD1000xx to make calls using DTMF (Tone) signaling, whilst a [YES] will result in the slower Pulse signaling.

"INSTANT TRIGGER?"

A [NO] will cause the Autodialler to trigger after 3 seconds of pressing the ALARM button. Whilst a [YES] will result in an Instant activation of the unit.

This will cancel the current data entry and scroll back to the previous question.

CANCEL

ENTER

"HAVE U FINISHED?"

NO

YES

Repeated keying of the [ENTER] button will cause all the entered data to be scroll after a display of "THINKING".

It will now be possible to re-programme all the data again, after displaying the "THINKING" message.

This facility, if enabled by a "YES", will causes the automatic jumping onto the next pre-programmed number after the Call Duration Time. It will only stop if a "*" or "0" is pressed by the person who receives the call on his telephone.

"AutoJump NEXT?"

This facility, if enabled by a "YES", will causes the announcement of the PIN number and the Lift number automatically after 20 seconds into the call. If at any time the person who receives the call presses the "*" button on his telephone , the announcement of the PIN number and the Lift Number will be made.

"VOICE IDENTIFY?"

The display will display "THINKING" and then flash "SYSTEM READY" " Windcrest " the RED LED will now start to blink to confirm that the programming mode of the STNAD1000xx has been completed.

The programmer can be left connected to the unit whilst testing is carried out to show the activity; or it can be removed.

Further Information?
Call *Windcrest* on
Tel: 0208 795 0333

NOTE:
Must enter all 5 telephone numbers repeat if required.

Remote Programming of the STNAD1000-EN range of Autodiallers

The autodialler has the facility to auto-answer an incoming call, after 6-15 seconds.
Once the call has been answered, the programming mode can be instigated by a series of
simple commands via a simple Touch-Tone Telephone or a Mobile Phone.

The programming is by means of using the (DTMF) Touch-Tones from the calling telephone
or a management computer based system into the Lift car.

To enter into the Remote Programming Mode, a Remote Programming Access (RPA)
Number, must be entered in the following format "*v..vv#" within a time period of 30 seconds.
(v is any digit 0 to 9). The Default is 1234.
If the RAP is incorrect the system will go in the normal auto-answer.
If the RAP number is correct, the system will output two short Beep tones and wait for
additional command tones for a period of 30 seconds before exiting and going in the normal
auto-answer mode, i.e. line being connected to the speaker box, after the emission of a short
tone.

Exiting from the programming mode is by either a command code sequence, or no activity for
30seconds whilst in the programming mode. (Note, when entering the remote programming
mode, the call duration time period is suspended; and re-established when existing from the
programming mode).

The following can be implemented once in the programming mode.

> *00#   Terminate Programming Mode
> *vv*   Announce the Programmed number e.g. if *15* is entered; the
> system will produce "Beep 15 Beep 5627899 Beep" if the Phone
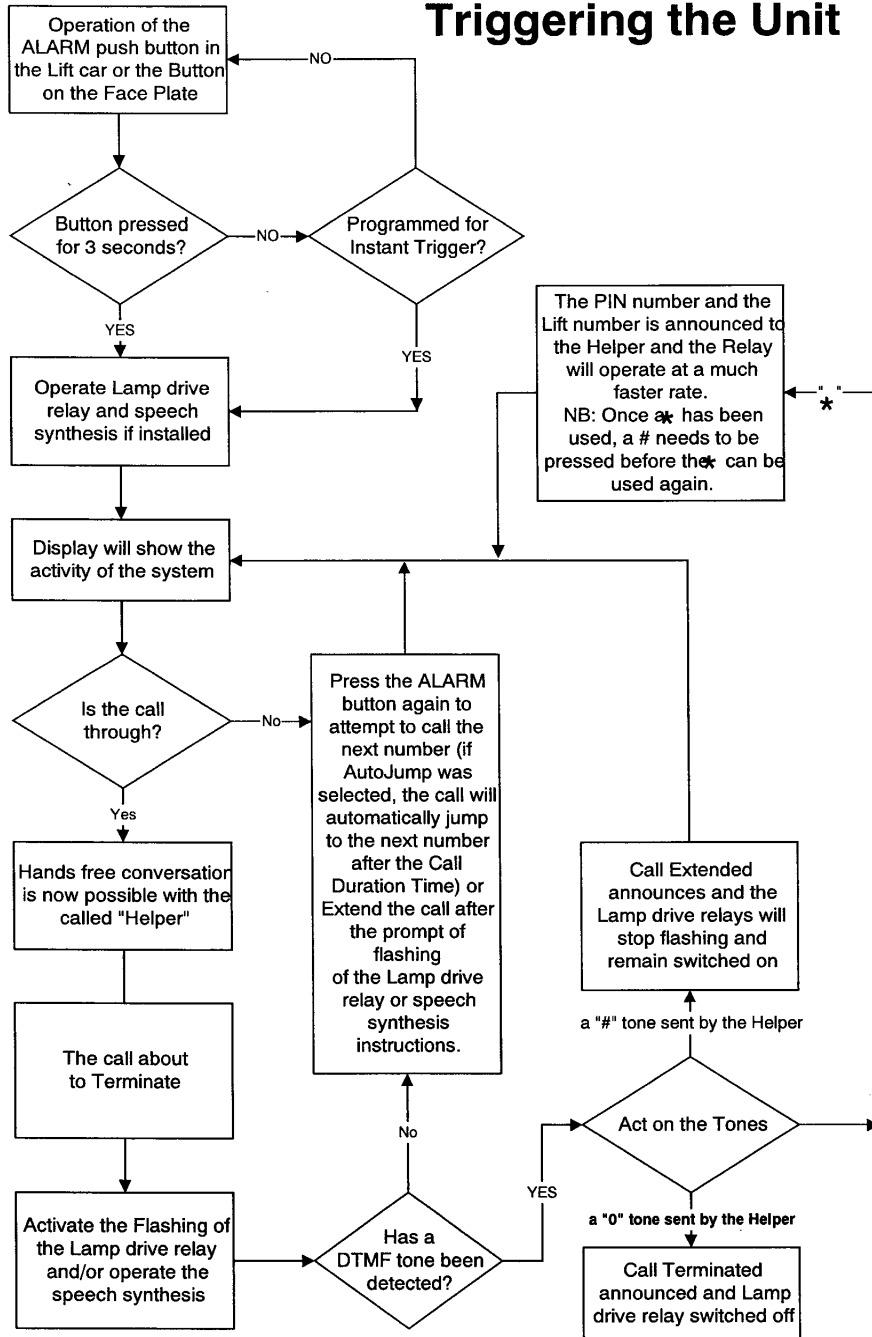> number of the 5th number was 5627899.

Sequence of Events

1.   Call the Lift using a simple phone. The call may be answered by a person in the Lift
      car or will be Auto-answered and you will be connected to the Speaker in the Lift car.
2.   Inform the person in the Lift car that you are about to update the Emergency
      Telephone.
3.   Key in the Remote Programming Access Number, Default being 1234
      So key on your telephone *1234# The unit will respond by two beeps.
4.   Change the first number *11#v..v#. where v is any digit from 0 to 9.
5.   Change the 2nd Number *12#v..v#
6.   Change the 3rd *13#v..v# and so on till the 5th phone number

If a second # is added at the end of a programming string, e.g. *14#02087950333## the
remote unit will confirm your entered number by announcing "Beep 14 Beep 02087950333
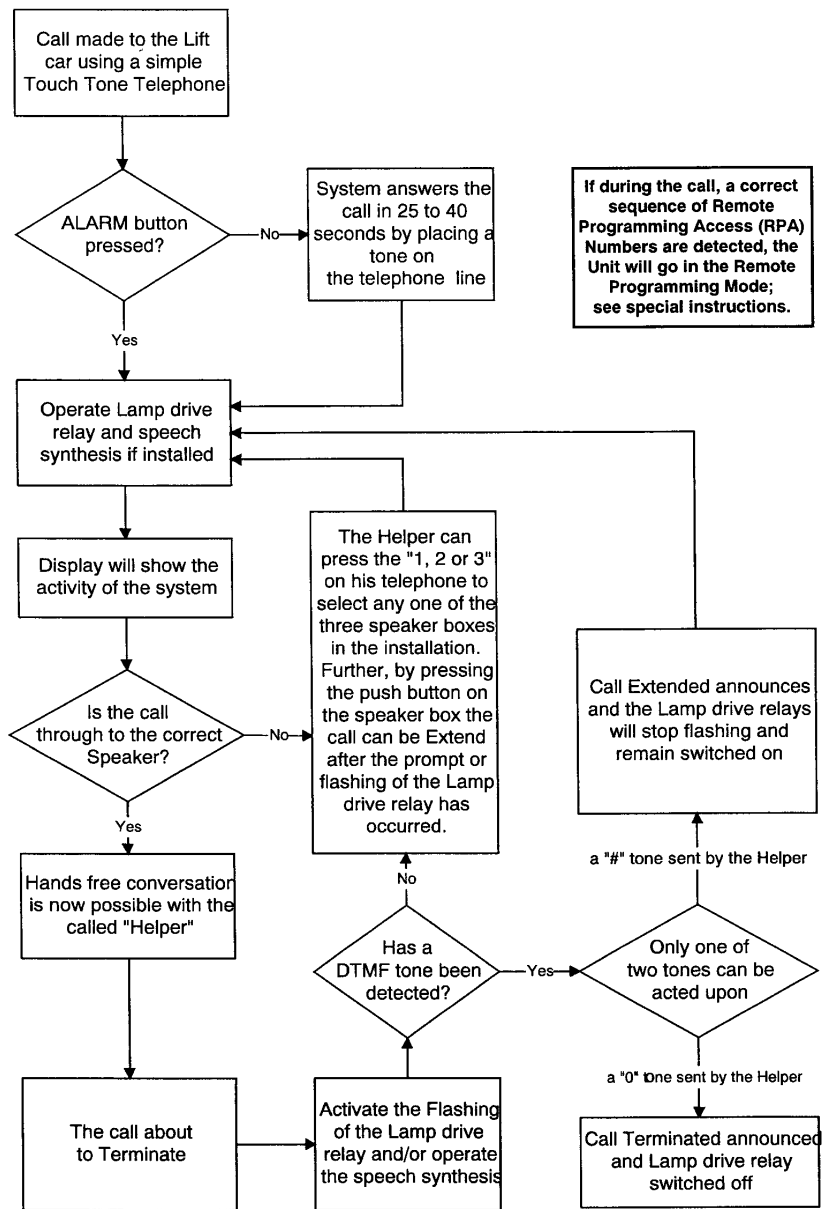Beep" over the telephone line so a desk top telephone is advantageous.

7.   If all the numbers entered are correct, and you enter *00# the remote programming
      mode will end.

Triggering the Unit

Operation of the ALARM push button in the Lift car or the Button on the Face Plate

─NO─

Button pressed for 3 seconds? ─NO→ **Programmed for Instant Trigger?**

YES

YES

The PIN number and the Lift number is announced to the Helper and the Relay will operate at a much faster rate.
NB: Once a * has been used, a # needs to be pressed before the * can be used again.

"*"

Operate Lamp drive relay and speech synthesis if installed

Display will show the activity of the system

Is the call through? ─No→ Press the ALARM button again to attempt to call the next number (if AutoJump was selected, the call will automatically jump to the next number after the Call Duration Time) or Extend the call after the prompt of flashing of the Lamp drive relay or speech synthesis instructions.

Yes

Hands free conversation is now possible with the called "Helper"

The call about to Terminate

Activate the Flashing of the Lamp drive relay and/or operate the speech synthesis

Has a DTMF tone been detected?

No

Call Extended announces and the Lamp drive relays will stop flashing and remain switched on

a "#" tone sent by the Helper

Act on the Tones

YES

a "0" tone sent by the Helper

Call Terminated announced and Lamp drive relay switched off

If the called person operates any of the functions of the telephone system using the tones generated by his telephone or the call times out, the system will "rembeber" this number called and hence will reattempt this number first if the ALARM button is activated again. However, this memory is only valid for 30 minutes after which the first preprogrammed number is attempted first; then the second, third etc.

Calling the Unit

Call made to the Lift car using a simple Touch Tone Telephone

ALARM button pressed? —No→ **System answers the call in 25 to 40 seconds by placing a tone on the telephone line**

If during the call, a correct sequence of Remote Programming Access (RPA) Numbers are detected, the Unit will go in the Remote Programming Mode; see special instructions.

Yes

Operate Lamp drive relay and speech synthesis if installed

Display will show the activity of the system

The Helper can press the "1, 2 or 3" on his telephone to select any one of the three speaker boxes in the installation. Further, by pressing the push button on the speaker box the call can be Extend after the prompt or flashing of the Lamp drive relay has occurred.

Is the call through to the correct Speaker? —No→

Call Extended announces and the Lamp drive relays will stop flashing and remain switched on

Yes

Hands free conversation is now possible with the called "Helper"

No

a "#" tone sent by the Helper

Has a DTMF tone been detected? —Yes→ **Only one of two tones can be acted upon**

a "0" tone sent by the Helper

The call about to Terminate

Activate the Flashing of the Lamp drive relay and/or operate the speech synthesis

Call Terminated announced and Lamp drive relay switched off

If the called person operates any of the functions of the telephone system using the tones generated by his telephone or the call times out, the system will "rembeber" this number called and hence will reattempt this number first if the ALARM button is activated again. However, this memory is only valid for 30 minutes after which the first preprogrammed number is attempted first; then the second, third etc.

Voice Recording of the Lift Location on Site

It is recommended that the car speaker be installed after all recording has been made, as the speaker can be used to confirm the quality of the recording.

Introduction

This set of instructions are provided so that the Engineers can record his voice on the solid state device within the Windcrest unit to inform the recipient of the call to as to the location of the lift.

Equipment/Information required

1. Pozi-drive screwdriver
2. Windcrest Hand Held Programmer
3. Lift number and Address of location
4. The Car Speaker box plugged into the side of the Windcrest Unit. (For EN4 applications, remove the existing plug from the socket on the side of the Windcrest unit and plug in the car speaker box for the duration of the recording).

Procedure

Connect the speaker box for the lift car directly into the Windcrest Autodialler. Ie into the BT Type socket on the side of the inner box. Do not connect the flying lead of the Windcrest unit into the Telephone line.

Disconnect the Mains Power by pulling out the fuse, and disconnect one of the Battery leads; so the equipment has no power at all.

Remove the 3 screws of the inner lid of the Windcrest unit. This will allow the lid to be removed and as a result the Warranty label will be damaged. (This will not affect the warranty, as we will know the reason for the label damage).

Ensure no metal objects have fallen into the unit, and identify the location of the small push button next to IC20, the RED LED3, and behind the regulator with the heat sink.

Plug in the Programmer and then Power up the unit by the Mains fuse.

1. Press button [3] on the programmer i.e. to enter the Test mode the display will show "SELECT TEST".

2. Press button [5] on the programmer to display "RECORD NEW ?" press [0] The display will show "PLAYING MESSAGES" whilst the unit plays the current contents of the chip. As the message is played and as it comes to the end the display shows "REC/PLAY....3s.." then "REC/PLAY....2s.." then "REC/PLAY....1s.." then when it ends "REC/PLAY....END.."

3. Press button [5] again, to display "RECORD NEW ?"

4. Identify the small push button in the unit and PRESS & HOLD it DOWN. As you do so the LED3 will illuminate.

5. Now with the other hand, press the [1] button of the Programmer to commence voice recording. Recording is fixed at a period of approx. 10 seconds. (Microphone is near the illuminated LED3).

6. After the recording has been completed, release the small push button, which you have held down.
   (Example of recording "Lift Alarm has been activated from lift 2 at St Peters Street, London NW2".)

7. Press [5] again. The display will show "RECORD NEW ?". To hear your recording, press [0]. The recording will be played. If acceptable, press [CANCEL] button.

8. If the recording was not acceptable – repeat steps 4 & 5 as above.

9. Press [5] again. The display will show "RECORD NEW ?". To hear your recording, press [0]. The recording will be played. If acceptable, press [CANCEL] button.

10. Pressing of the [CANCEL] button concludes the recording mode.

Now Disconnect the Mains Power by pulling out the fuse, so the equipment has no power and replace the lid and screws.

The fact that the recording has been carried out, it could be advantageous to select "VOICE IDENTIFY?" during the normal programming so that the lift's identification is automatically announced during the call from the lift.

Special Bits Settings: "SP Bit ?"

Telephone Number 1 "SP Bit1?"
Set [N0] as Default.   If [YES] Call will clear on any tone detected on the phone line.

Telephone Number 2 "SP Bit 2?"
Set [N0] as Default.   If [YES] "Emergency Telephone activated....." will NOT be announces.

Telephone Number 3 "SP Bit 3?" (This is an optional feature to be ordered).
Set [N0] as Default.   If [YES] Beeps generated if BT Line voltage is not detected and/or Low battery voltage is detected after 3 minutes; and 30 minutes thereafter.

Telephone Number 4 "SP Bit 4?"
Set [N0] as Default.   If [YES] All incoming calls are NOT detected.

Telephone Number 5 "SP Bit 5?"
Set [N0] as Default.   If [YES] All incoming DTMF tones are NOT detected.