Putting our experience to work …..

Putting our experience to work …..

At Neon we claim to manufacture a system that is “at last a door entry system as it should be”. You have probably read our “sales” literature and maybe had a demonstration, but we thought it would be good to highlight the main features from our own perspective with some of our thinking behind them.

Firstly though, you should know that the Neon system was designed by two engineers who between them have over 60 years experience of designing, manufacturing, installing and servicing door entry systems. We have worked on all makes of system from one-to-one to large multi-linked concierge systems. The two engineers own the business and are passionate about providing the best door entry systems available for the social housing and commercial market place.

Here are some of the principal reasons we believe the Neon Secure Access door entry system is the best on the market:

Neon Enhanced Audio – we are sure that most of you are familiar with the awful speech quality of most door entry systems. In fact, the one thing that is the most important feature, the audio, is normally the worst feature of all.
Neon does NOT use the normal audio unit that most use, we have designed our own on board audio amplifier circuits. It is often the first thing people comment on with our systems, they do not sound like door entry systems at all.
The audio is loud, clear and without feedback whistles. Our audio system also adds enhancements to the audio spectrum using a system we call “Neon Clear Sound” giving extremely clear natural sounding audio. This is very noticeable and can be easily heard well above loud traffic noise etc.

Neon Ultra Bright Display - The choice of display for door entry is very important and as with most things in life, it’s horses for courses.
You may have noticed that some door entry manufacturers use an LCD display with tiny text - this is not the correct type of display for door entry.
The display for door entry should be LED not LCD. It should be large, bright and the correct colour for people with fading sight. We have designed a large, bright easy to read display. Size and colour is so important for this application and Blue is the best colour for people with fading sight giving good contrast.

Neon Multi Handset Compatibility - The Neon door entry system is compatible with most tone call handsets made by many manufacturers.
Currently, most specialist door entry manufacturers design their systems to be compatible with their own handsets only. This has led to owners of some systems having to pay considerable amounts of money to replace handsets, especially when the system has been deemed obsolete! We believe that customers should not be “Held To Ransom” for spare parts, especially telephones. The Neon system has been designed to be as compatible with the majority of standard handsets available today.

Using Existing Handsets (Upgrading Old Systems).- One of the major advantages of Multi Handset Compatibility is the ability to re-use existing handsets and/or cabling within a block.
Most of the cost of upgrade to a block is the replacement of handsets and access to every flat. With Neon it is possible, in many cases, to re use the existing handsets and cabling. This has been achieved many times using Neon systems and means that a block can be upgraded just by replacing the Door panel and Distribution boards. A very cost effective solution.

Neon Soft Close - Neon Systems have a unique built-in feature called *“Neon Soft Close”*.
This feature is for use with Magna type locks. The use of Magna type locks is very desirable in many situations BUT … there is one very annoying consequence of their use. The loud BANG every time the door closes, caused by the attraction of the magnets causing the door plates to slam hard together at the point of closure.
This loud BANG is transmitted though the building structure, causing many complaints. Such complaints are not surprising when you consider the door makes this noise every time someone enters OR LEAVES the building.
The unique *“Neon Soft Close”* feature is built into our system, and intelligently controls the magnets, this completely removes the problem, and the door will close silently.

Neon Steel Illuminated Keypad - We offer a choice of buttons for our Digital door entry panels. However, we strongly advise the use of our standard telephone layout keypad (details and reasons below).
The choice of a strong, durable standard keypad layout for door entry is the correct one. We have incorporated an ATM strength steel, illuminated keypad, because whether you are fully sighted or

blind, everybody can use a telephone, and this standard layout is the only true DDA mapping.

The proof of this is that you or I could go blind tomorrow and instantly still be able to use a telephone and we can do this without having to learn anything (Braille etc). There never has been Braille on any public telephone keypad!
Less and less blind people can read Braille year on year, 96% of blind or partially sighted people CANNOT read Braille. In fact, the percentage that can read Braille can be thought of as a statistical zero when applied to the door entry market, and as stated above, is not needed on a standard keypad anyway.

Neon DDA Auto-Call - To compliment the keypad layout, Neon has a unique built in feature we call "Neon DDA Auto-Call". This means the visitor can simply dial the flat number and does not need to find the "call" button. The Neon system will auto call after a short delay. It is in fact exactly like dialling a telephone number on any normal phone, just dial the number and the flat is called – there is no CALL button on a standard telephone!
This is very useful for blind or partially sighted people and the option is available simply by ticking "DDA Auto-Call" on the setup program for the door panel.

We do not believe in making Authorities pay for useless and expensive door panels with Braille and button layouts that are cluttered and in fact self defeating, and only motivated by profit.

Neon Call Divert - Sheltered Schemes - Neon systems have a feature called "Call Divert". This is particularly useful in sheltered housing schemes.

The resident's telephone handsets have a Divert switch, which when switched on, diverts their calls to another telephone handset, usually located in the Communal Lounge of the sheltered scheme. The communal lounge is used for socialising, organized games, film nights etc BUT if a resident in the sheltered scheme is expecting a visitor, this normally means they have to stay in their flat and are unable to take part in the social activity.

Neon systems allow the resident to Divert their calls to the communal lounge by simply pressing the Divert switch on their handset.

Here is an example, lets say that Mrs Jones in flat 23 is expecting a visitor but would really like to play Bingo in the lounge. All she has to do is press the Divert switch on her handset in her flat and then go to the communal lounge.
Above the handset in the communal lounge is a large display, this shows the number being called. So Mrs Jones is now playing bingo, her visitor arrives at the main door, they dial 23 and the call is diverted to the communal lounge. The handset starts ringing (different call tone for diverted calls) and the large display above the handset shows "23". Everybody in the lounge knows that the visitor at the main door is for flat 23. Mrs Jones answers the call and can speak and allow access to her visitor. Lets hope she didn't miss winning "house" in the process!

The telephone in the lounge can also be called directly from the panel so if it is being used by outside agencies their users can call the lounge telephone directly for access.

Neon Telephone Interface - Neon has developed an Interface that allows our system to connect to a standard telephone. The Interface sits transparently in line with the existing BT telephone(s) and therefore there are NO call charges. This allows the resident to use their standard telephone(s) for their normal calls AND calls from the Neon door entry system. This is most useful for the infirm or disabled especially when using a portable DECT telephone, which they can have by their side at all times.
So what happens if the tenant is already on the telephone speaking to a friend for example, and there is a call from the Neon door entry system?
In this case, the user will receive a call waiting pip every few seconds. Pressing the STAR button on the telephone will place the friend they are speaking to "on hold" and they will hear "call hold" music. The user will now be in contact with the Neon door entry system and can speak to their visitor. If they wish, they can allow access to the visitor by pressing button 1 on the telephone.
To return to their friend placed on hold, all they have to do is press STAR again.

The telephone interface can be fitted in addition to a standard door entry telephone or instead of one. It is powered from the door entry system and does not require any mains connection from the flat.

Putting our experience to work …..

Local Authority/Housing Association System Requirement Guide

Only Neon Secure Access Ltd. Complies 100%

1.. The Door Entry system must **"multi" ring** the Handset in the flat, i.e. not only ring once. When the Call button is pressed at the Door Panel to call the Handset in the flat, the system must ring then rest, ring then rest, until answered or number of rings that has been programmed has been reached.

2.. A call to a Handset must never fail without giving the reason for the fail, i.e. display the reason at the Door Panel. The display characters must be 14mm high and be brightly Illuminated to be easily seen by the visually impaired.

3.. The Door Entry system shall have **"Speech enhancement technology"** built into the audio amplifier circuitry in the Door Entry Door Panel so as to give clear audio to the hearing impaired.

4.. When calling a Handset, the Door Entry system must know when the handset in the flat has been lifted, **"Answer"** must appear in the Door Panel Display and the standard "connection tone" (three rising tones) given at the Door Panel.

5.. The Door Entry system must know when the handset in the flat has been replaced, **"Hung Up"** must be displayed at the Door Panel along with the standard **"disconnection tone"** (2 falling tones). Also, when the handset is replaced, the system must auto clear ready for the next call without the need to press the Cancel button on the Door Panel.

6.. The system incorporate the option to **"auto call"** i.e. if the option is enabled then you need only dial the flat number WITHOUT the need to find and press the Call button on the Door Panel.

7.. The system must incorporate **"any key cancel"**, i.e. you do NOT need to find the Cancel Button to cancel a call, any key pressed will cancel the call.

8.. The Door Entry system must have the option to display **"Handset Switched Off"** at the Door Panel when calling a flat where the Handset has been placed in Privacy.

9.. **"Soft Close"** for Magna type locks must be built into the system as standard, i.e. not need to be added with extra equipment. This will stop the dreadful bang that Magna type lock cause when the door closes.
The ability to change delay times is also a requirement.

10.. The Door Entry system must incorporate coded entry facility, this system must be protected from multi attempts to find the coded numbers by entering numbers add hoc at the Door Panel.

11.. The Door Entry system must have the ability to connect to a **Cordless Handset** in the flat. This cordless handset must also be capable of making/receiving normal phone calls. It must be powered from the door entry 13V DC supply and must not require connecting to the mains supply within the flat.

Very Important

Back EMF from the coil within Door Keeps and Magna Locks can reach many Thousands of Volts.

For this reason, ALL Door Keeps **MUST** have a Diode (1N4007) or MOV fitted across the Power connections to the Door Keep.

If you are fitting a Diode then remember that it HAS to be fitted the correct way round, (see next page).

If you are fitting an MOV then this can be fitted either way round.

If the Neon Door Entry System detects high EMF it will go into protection RESET mode.

The +ve and –ve power to the Door Lock(s) MUST Never be taken from the Door Panel. Instead, always take the power to the Lock(s) via separate wires directly from the Power Supply.

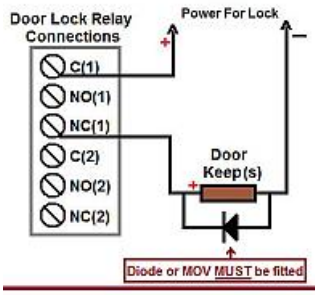
ALL DOOR PANELS MUST BE EARTHED BY REGULATION.

Putting our experience to work …..

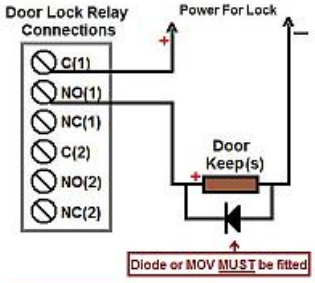
Door Panel Wiring

Lock Configurations Including PTE, Neon "Soft Close", Door Left Open Sounder.

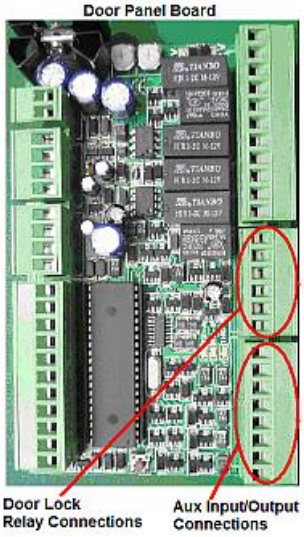
Fail Open Door Keep (No Proximity Access)



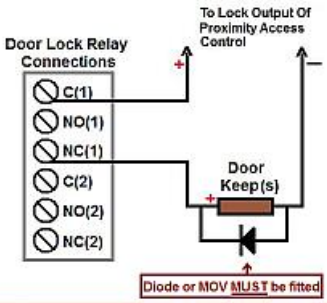
Fail Locked Door Keep (No Proximity Access)



Door Panel Board



Fail Open Door Keep (With Proximity Access)



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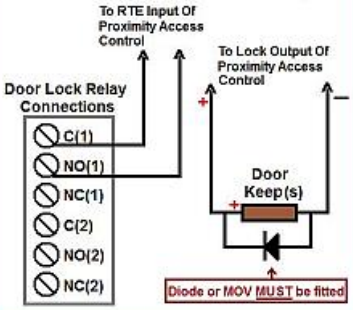
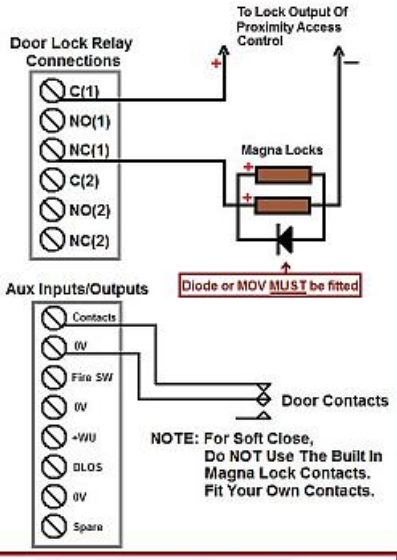
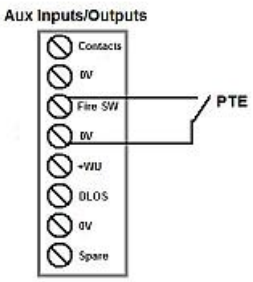


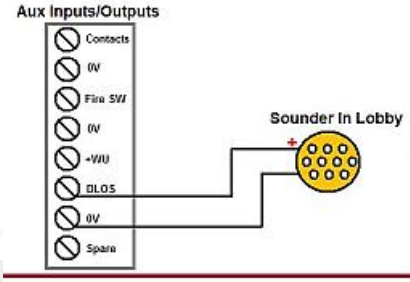
Magna Locks With Neon "Soft Close"



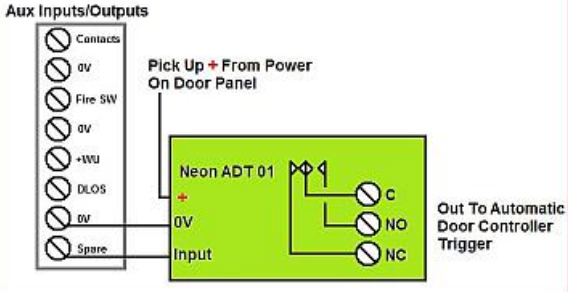
If There Is No Proximity Access And You Require PTE then Diagram Below Shows How.

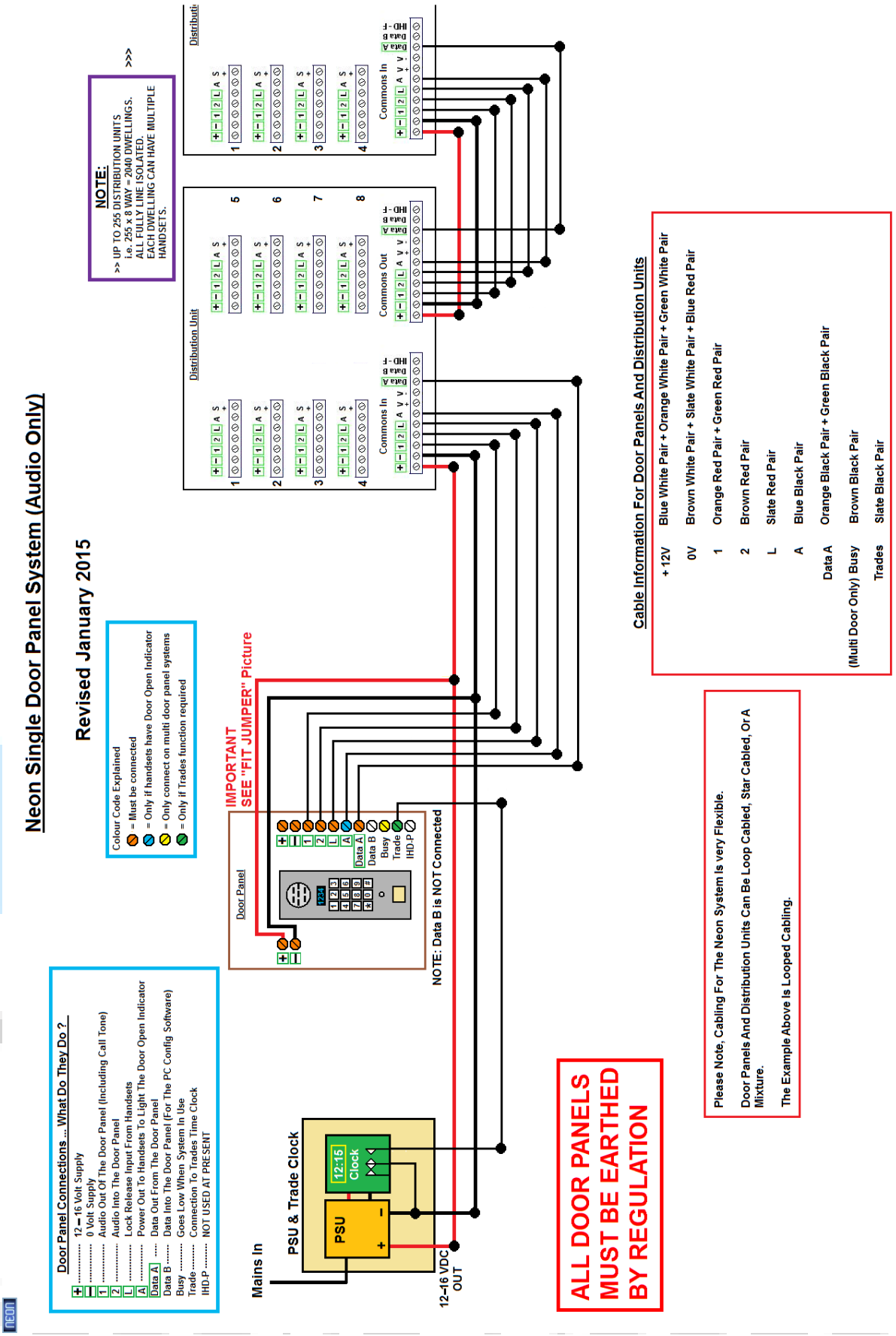


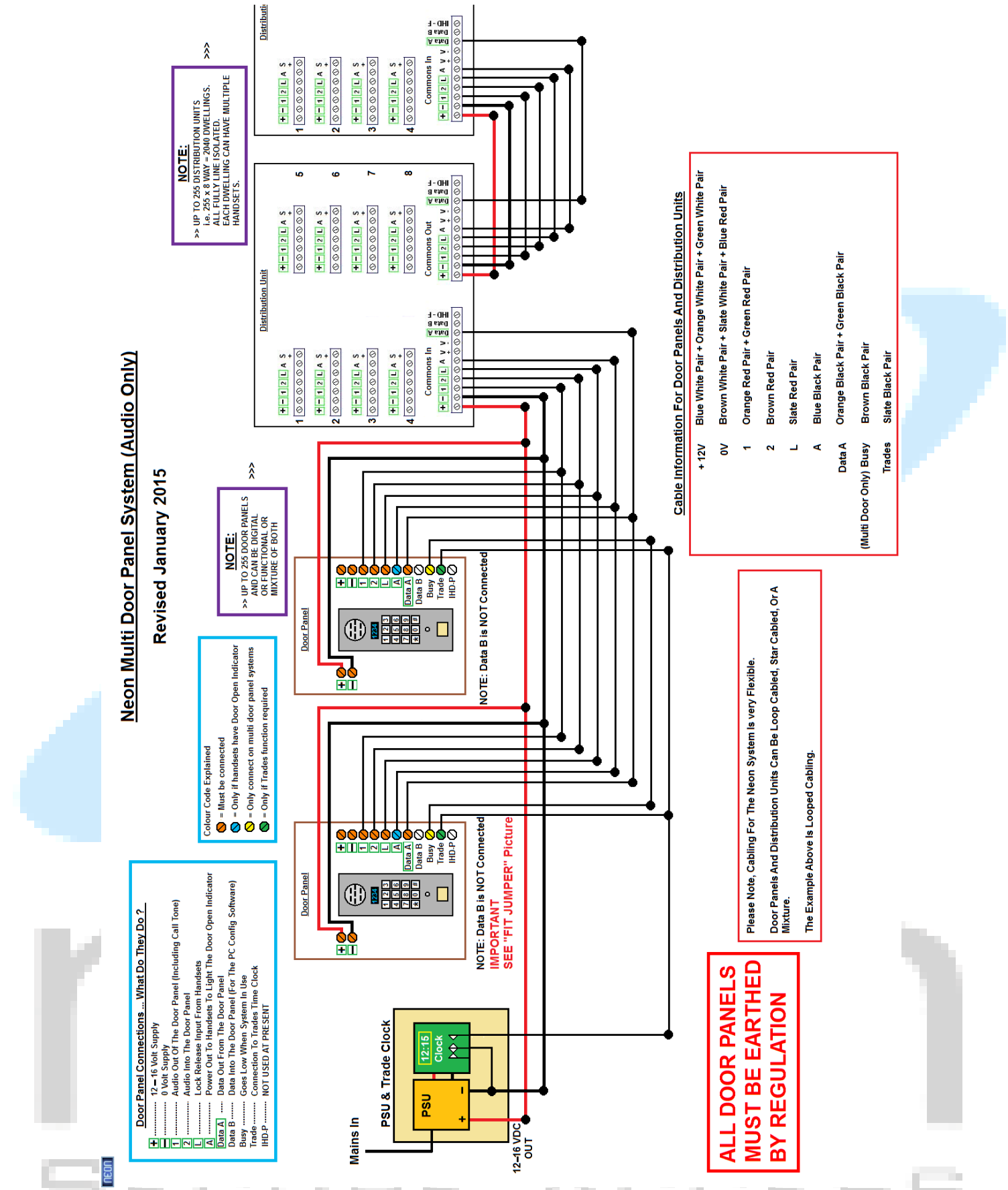
Door Left Open Sounder (Located In Entrance Lobby)



Automatic Door Trigger Board




Neon Single Door Panel System (Audio Only)
Revised January 2015
Door Panel Connections ... What Do They Do ?
+ ..... 12 – 16 Volt Supply
1 ..... 0 Volt Supply
2 ..... Audio Out Of The Door Panel (Including Call Tone)
L ..... Audio Into The Door Panel
A ..... Lock Release Input From Handsets
Data A ..... Power Out To Handsets To Light The Door Open Indicator
Data B ..... Data Out From The Door Panel
Busy ..... Data Into The Door Panel (For The PC Config Software)
Trade ..... Goes Low When System In Use
IHD-P ..... Connection To Trades Time Clock
NOT USED AT PRESENT
Colour Code Explained
= Must be connected
= Only if handsets have Door Open Indicator
= Only connect on multi door panel systems
= Only if Trades function required
IMPORTANT
SEE "FIT JUMPER" Picture
Door Panel
NOTE: Data B is NOT Connected
Mains In
PSU & Trade Clock
PSU
12:15
Clock
12–16 VDC OUT
Distribution Unit
Commons In
Commons Out
NOTE:
>> UP TO 255 DISTRIBUTION UNITS
i.e. 255 x 8 WAY = 2040 DWELLINGS.
ALL FULLY LINE ISOLATED.
EACH DWELLING CAN HAVE MULTIPLE HANDSETS.
>>>
ALL DOOR PANELS MUST BE EARTHED BY REGULATION
Please Note, Cabling For The Neon System Is very Flexible.
Door Panels And Distribution Units Can Be Loop Cabled, Star Cabled, Or A Mixture.
The Example Above Is Looped Cabling.
Cable Information For Door Panels And Distribution Units
+ 12V Blue White Pair + Orange White Pair + Green White Pair
0V Brown White Pair + Slate White Pair + Blue Red Pair
1 Orange Red Pair + Green Red Pair
2 Brown Red Pair
L Slate Red Pair
A Blue Black Pair
Data A Orange Black Pair + Green Black Pair
(Multi Door Only) Busy Brown Black Pair
Trades Slate Black Pair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Door Panel
Distribution Unit
Commons In
Commons Out
Mains In
PSU & Trade Clock
PSU
12:15 Clock
12–16 VDC OUT
NOTE: Data B is NOT Connected
IMPORTANT
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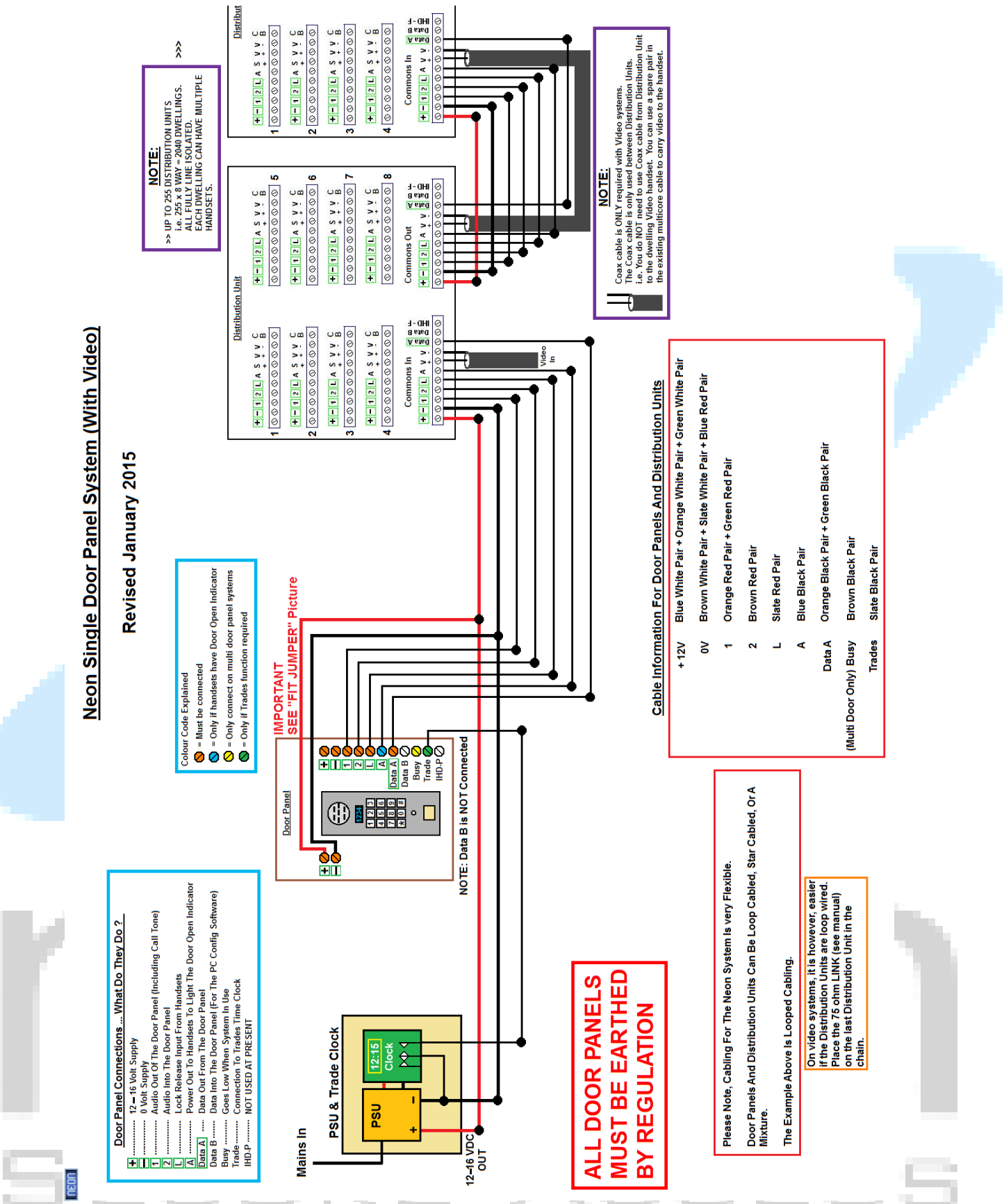
Neon Single Door Panel System (With Video)
Revised January 2015
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1 ..... 0 Volt Supply
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L ..... Audio Into The Door Panel
A ..... Lock Release Input From Handsets
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NOTE:
Coax cable is ONLY required with Video systems.
The Coax cable is only used between Distribution Units.
i.e. You do NOT need to use Coax cable from Distribution Unit to the dwelling Video handset. You can use a spare pair in the existing multicore cable to carry video to the handset.
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Trades Slate Black Pair
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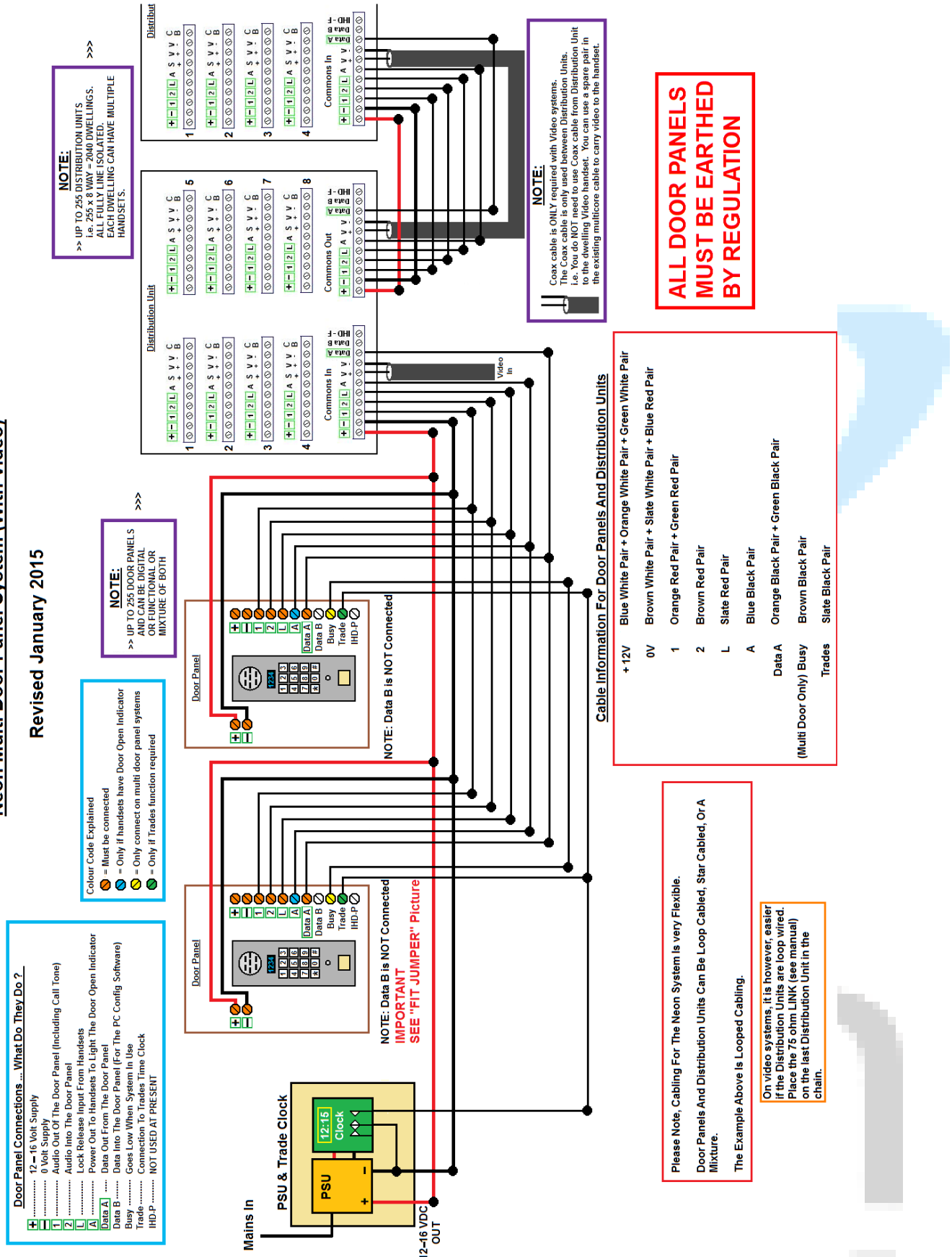
On video systems, it is however, easier if the Distribution Units are loop wired. Place the 75 ohm LINK (see manual) on the last Distribution Unit in the chain.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Mains In
PSU & Trade Clock
PSU
12:15 Clock
12–16 VDC OUT

DOOR PANEL DATA JUMPER.

On Multi Door systems, ONLY fit the Jumper on ONE Door Panel. It does'nt matter which one.
On Single Door Panel systems, obviousley, just on that Door Panel.

The next page shows an example of the Distribution Node Mapping Sheet, it is a throw away sheet used to note what flats are connected to which Distribution Node and which Port number on that Node.

You fill in the sheet(s) and you can then use it to Program the Neon Door Panel using the PC Setup Program.

The sheet is printed from the Neon Door Panel Setup GUI Program.

From the Main Screen, click "*Attached Notes And Printer Functions*" and then click "Print Blank *Distribution Node Mapping Sheet*"

Putting our experience to work …..

Distribution Node And Flat Numbering Map

Site Name:

Site Address:

General Notes:

Page ____ of ____ (Max 2040 Flats)

Distribution Node Number:

Port 1	Port 5
Port 2	Port 6
Port 3	Port 7
Port 4	Port 8

Location:

Distribution Node Number:

Port 1	Port 5
Port 2	Port 6
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Port 4	Port 8

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Location:

Distribution Node Number:

Port 1	Port 5
Port 2	Port 6
Port 3	Port 7
Port 4	Port 8

Location:

NEON SECURE ACCESS LTD T: 0845 520 2345 E: enquiries@neonsecureaccess.co.uk

The next page shows an example of the Commissioning Sheet.
This is a great time saver as all the work is done for you.
It uses the information that you have already entered into the Program that was used to setup the Door Panel.

This sheet is printed from the Neon Door Panel Setup GUI Program.

From the Main Screen, click "*Attached Notes And Printer Functions*" and then click "*Print Commissioning Sheet(s)*"

Neon Door Entry Commissioning Sheet(s) Date: Number Of Flats = 40 Page 1 Of 1

Block Name: Rosenthall House

Block Address: Rushey Green, Catford.

Company:

Engineer(s):

System Type:

Trade Time(s):

Flat	(Dist) (Node)	(Port)	Access To Flat	Call Tone	Audio Up : Dn	Lock Release	Privacy Button	Door Open Indicator	Video	Comments
1	(1)	(1)			:					
2	(1)	(2)			:					
3	(1)	(3)			:					
4	(1)	(4)			:					
5	(1)	(5)			:					
6	(1)	(6)			:					
7	(1)	(7)			:					
8	(1)	(8)			:					
9	(3)	(1)			:					
10	(3)	(2)			:					
11	(2)	(1)			:					
12	(2)	(2)			:					
13	(3)	(3)			:					
14	(3)	(4)			:					
15	(3)	(5)			:					
16	(3)	(6)			:					
17	(3)	(7)			:					
18	(3)	(8)			:					
19	(4)	(1)			:					
20	(4)	(2)			:					
21	(5)	(1)			:					
22	(5)	(2)			:					
23	(5)	(3)			:					
24	(5)	(4)			:					
25	(5)	(5)			:					
26	(5)	(6)			:					
27	(5)	(7)			:					
28	(5)	(8)			:					
29	(7)	(1)			:					
30	(7)	(2)			:					
31	(6)	(1)			:					
32	(6)	(2)			:					
33	(7)	(3)			:					
34	(7)	(4)			:					
35	(7)	(5)			:					
36	(7)	(6)			:					
37	(7)	(7)			:					
38	(7)	(8)			:					
39	(8)	(1)			:					
40	(8)	(2)			:					

Comments and General Notes:

Door Contacts

Below shows what you will see in the Neon display when the door contacts as saying that the door is open.

NOTE: If you have "Door Is Still Open Alert At Panel" enabled in the Neon GUI (Graphical User Interface) then the word OPEN will flash instead of the "dots" shown in the picture.

Putting our experience to work …..

Magna Lock *Neon Soft-Close* System

The ***Neon Soft-Close*** System is designed to take away the very annoying "Bang" that is associated with the closing of doors with Magna type locking.
This noise can be very unpleasant for tenants within the building because the sound is transmitted through the structure of the building and of course happens every single time the door is used (in or out).

Neon Soft-Close is enabled from the Neon GUI (Graphical User Interface). A value of zero means that you have switched this option off.
Any value above zero means you have enabled this option. NOTE, ONLY USE THIS FUNCTION WITH MAGNA TYPE LOCKS.

How does it work:
Within the GUI you set a "Delay" value (in seconds). This delay is the delay before power is re applied to the magna lock after the door has closed. This delay is from the time the door contacts tell the Neon system that the door is closed.
So, for example, lets say we have set a ***Neon Soft-Close*** delay of 5 seconds, the door has been released and let a visitor enter, the door is now closing (no power is yet applied to the magna lock) as the door closes, it reaches the point at which the door contacts tell the Neon system that the door is closed, the delay is now operating, and after 5 seconds (in our example) the magna lock will have power re applied. NO BANGING DOOR.

One VERY IMPORTANT thing to remember is:
You CANNOT use the built in magna lock door contacts for this function.
This is because, the built in door contacts ONLY work when the magna lock is powered, so once de powered they can NEVER tell the Neon system that the door is closed.
Fit your own door contacts and do NOT use the magna lock contacts.

Press To Exit

The Neon Door Panel has a PTE input on the Aus Input/Outputs connector.

Most of the time you will probably use the PTE on the PAC or KMS etc systems.

If you do use this input on the Neon door panel, then when the button etc is pressed, the Neon display will show as figure 1.

When the button etc is released then as the PTE time counts down the Neon display will show as in figure 2.

This is useful because if a PTE button is stuck then the Neon display will show as figure 1.

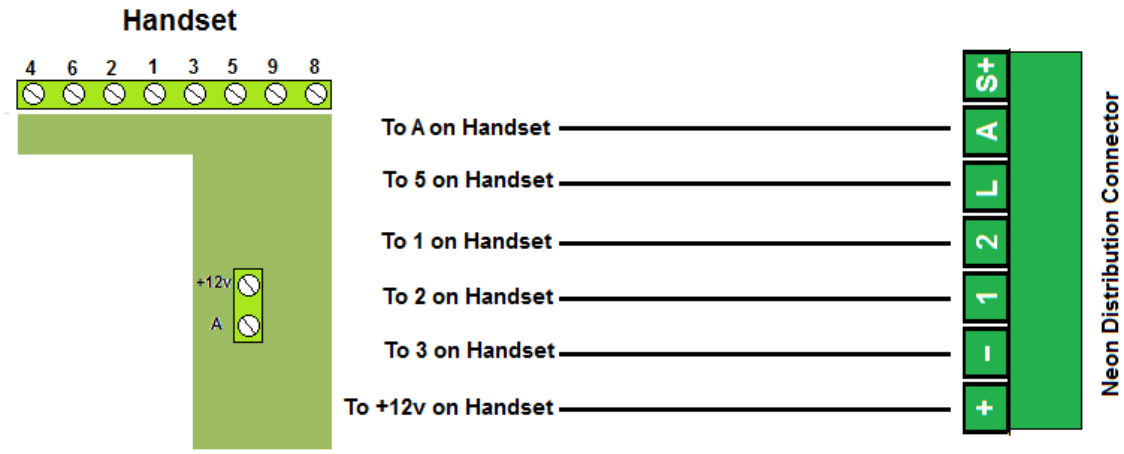
NOTE: the time for PTE is set in the GUI.

On some Neon door panels, the PTE input may be marked as Fire Switch.

Figure 1

Figure 2

Neon Audio Handset Connections



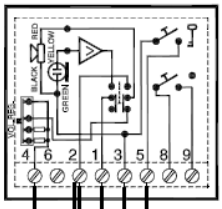
NOTE: 1 and 2 are reversed, i.e. 1 goes to 2 and 2 goes to 1

Videx to Neon Connections

Instructions: Videx 3112 Handset

a) Connect a link wire between 4 and 2 on the Handset.

b) Only 4 wires need to be connected, Follow the instructions below.



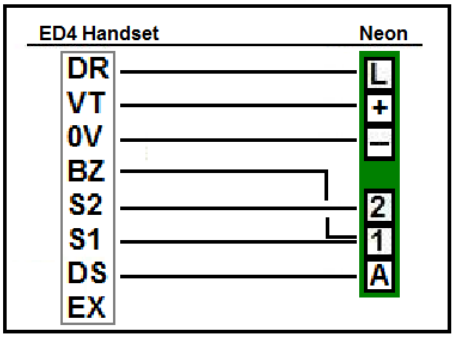
Videx Handset

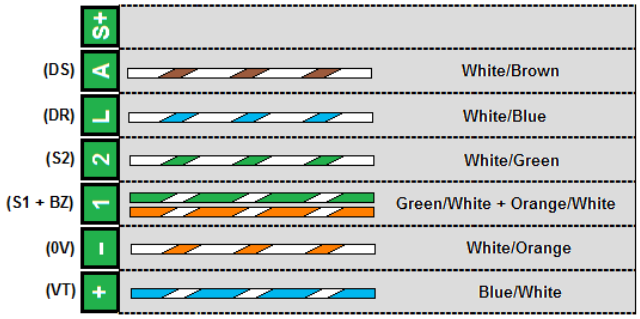
Link >>>

1 2 – L <<< Neon Distribution Connections

Videx Handset	Neon Distribution Unit
3	–
2	1
1	2
5	L

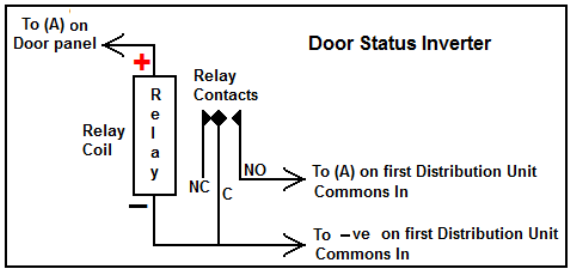
Neon to Entrotec ED4 Handset





Neon Distribution Phone Connector.
Wire colours used

Note: The Entrotec DS (Door Status LED) requires a -ve input.
The Neon system uses the standard +ve protocol. Therefore, the output (A) from the Neon door panel needs to be inverted via a relay.
The jumper needs to be set to the A- position on the Distribution Units.

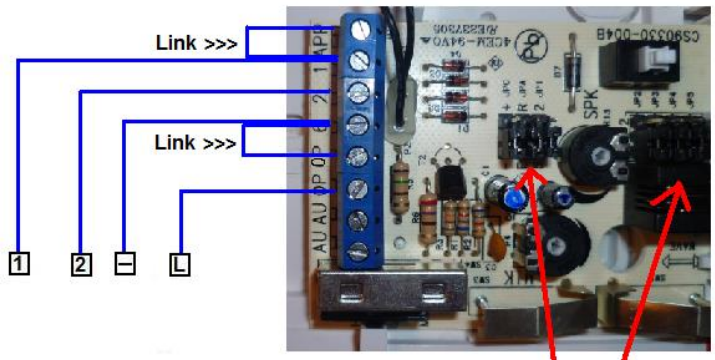


Bitron Universal Handset

Instructions:

a) Make sure ALL Jumpers are in the "5" postion (There are 2 sets of Jumpers)

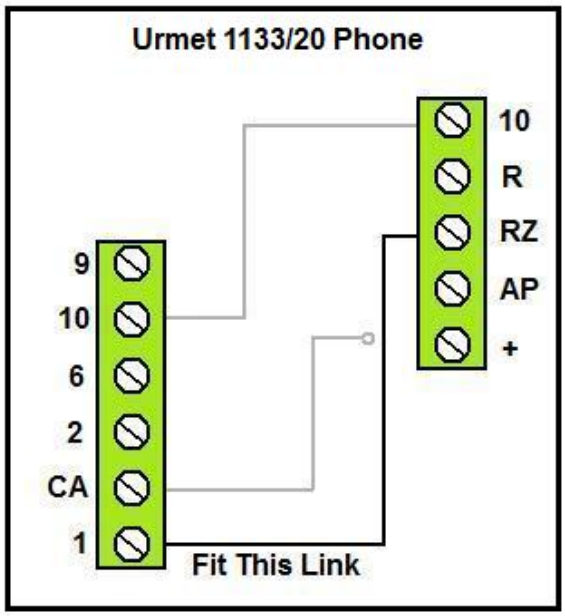
b) Only 4 wires need to be connected, Follow the instructions below.



Bitron Handset	Neon Distributon Node
6	–
1	1
2	2
OP	L

Jumpers

Set the jumpers like this



Handset	Neon Distribution Unit
+	+
6	–
1	1
2	2
9	L
AP	A

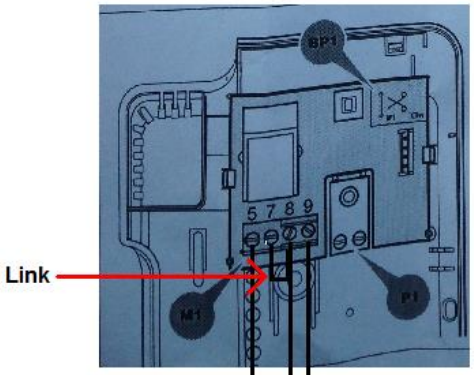
Urmet 1133 Handset
To
NEON
Connections

BPT Agata C200UK Connections

Instructions:

a) Connect a link wire between 7 and 8 on the Handset.

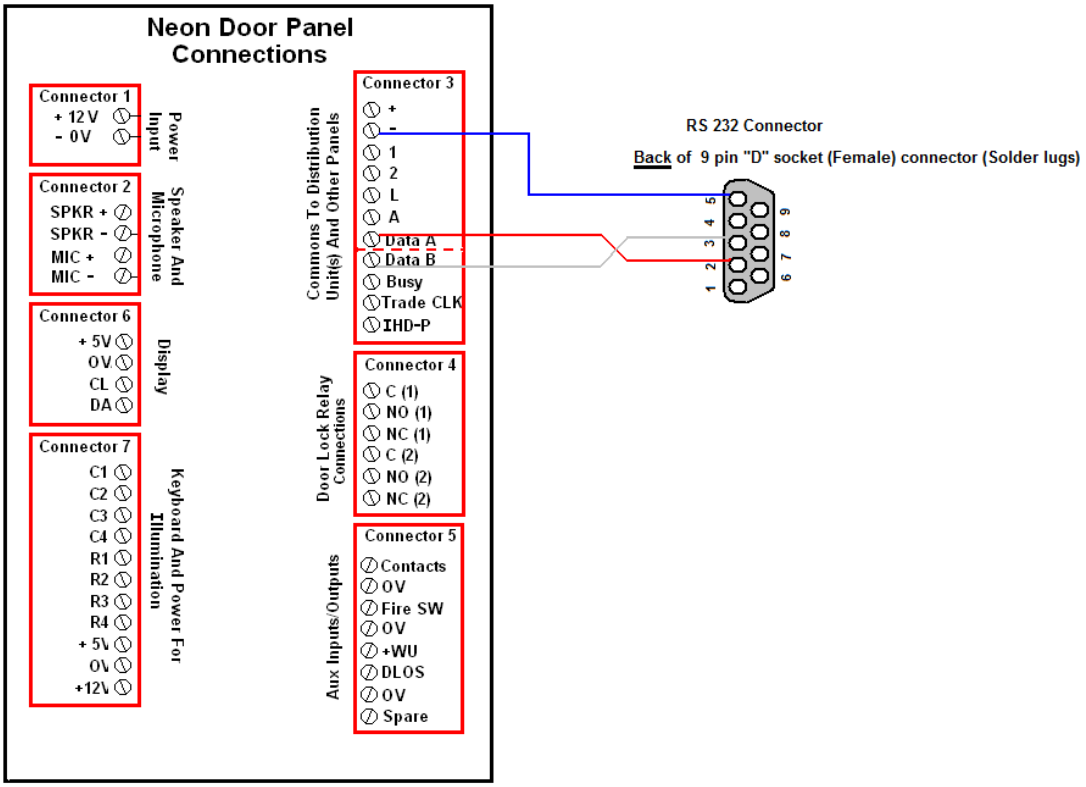
b) Only 3 wires need to be connected, Follow the instructions below.



Link

− 1 2 <<< Neon Distribution Connections

BPT Agata C200UK Handset		Neon Distribution Unit
5	0 Volts	−
8	Audio To Phone + Call Tone	1
9	Audio From Phone + Lock	2


Neon Door Panel Connections
Connector 1
+ 12 V
- 0V
Power Input
Connector 2
SPKR +
SPKR -
MIC +
MIC -
Speaker And Microphone
Connector 6
+ 5V
0V
CL
DA
Display
Connector 7
C1
C2
C3
C4
R1
R2
R3
R4
+ 5V
0V
+12V
Keyboard And Power For Illumination
Commons To Distribution Unit(s) And Other Panels
Connector 3
+
-
1
2
L
A
Data A
Data B
Busy
Trade CLK
IHD-P
Door Lock Relay Connections
Connector 4
C (1)
NO (1)
NC (1)
C (2)
NO (2)
NC (2)
Aux Inputs/Outputs
Connector 5
Contacts
0V
Fire SW
0V
+WU
DLOS
0V
Spare
RS 232 Connector
Back of 9 pin "D" socket (Female) connector (Solder lugs)
1 2 3 4 5
6 7 8 9

Obligation to the End User
WEEE Compliance Statement

Introduction

The Producer of this EEE passes all obligations to the "B2B End User" when this EEE is subsequently discarded as WEEE. The B2B End User, in accordance with the WEEE Collections Policy outlined in our Terms of Trading, must finance collection, treatment, recycling, recovery and environmentally sound disposal of this EEE when it is discarded as WEEE in the UK.

The Producer has paid no charge to its PCS (Producer Compliance Scheme) for its eventual recovery. However, the PCS's disposal contractor is able to provide cost effective and environmentally sound disposal of all 13 categories of WEEE.

For disposal please contact 0845 237 7024 or info@northerncompliance.co.uk for a free no obligation quote for the removal of WEEE items from a B2B End User of WEEE.

Producer ID Number: WEE/GA2088SW
Producer: Neon Secure Access Ltd. Unit 2 Lions Court, Lytchett Matravers, Dorset BH16 6HQ
E Mail: enquiries@neonsecureaccess.co.uk
Telephone: 0845 520 2345

B2B End User
Defined as the business, organisation or institution who is legal owner of the EEE when it is discarded as WEEE.

Declaration
The Purchaser, in accordance with the WEEE Collections Policy outlined in our Terms of Trading, accepts that the B2B End User must finance collection, treatment, recycling, recovery and environmentally sound disposal of this EEE when it is discarded as B2B WEEE in the UK
The Purchaser agrees to ensure that this document is passed with the EEEE item should it be resold to a B2B End User.

Definitions:

Producer	means, the Manufacturer, UK Importer and/or Re Brander
EEE	means, Electrical Electronic Equipment
WEEE	means, Waste Electrical Electronic Equipment
B2B	means, business organisation and/or institution
PCS	means, Producer Compliance Scheme
End User	means, legal owner
Purchaser	means, the business, organisation and/or institution that purchased the EEE