

4000 Series audio door entry system (using 9307.1 power supply) Installation Instructions

IN9307.1

20110726

1 Getting started

Thank you for choosing SRS.

If you are installing this system with one or two entrance panel(s) continue to step 2. If however you are installing something more complicated, please call technical support for a specific diagram.

2 Install the cables

Use CW1308 (BT spec.) twisted paired cable.

Choose cable layout fig. 1 or fig. 2

Any cable joint is potentially a cause of connection faults, it is therefore prudent to keep junctions to a minimum. For this reason we recommend making connections at the panel (max. 3 telephones) or at ONE point in the riser (usually adjacent to the power supply)

fig. 1 connections made in riser

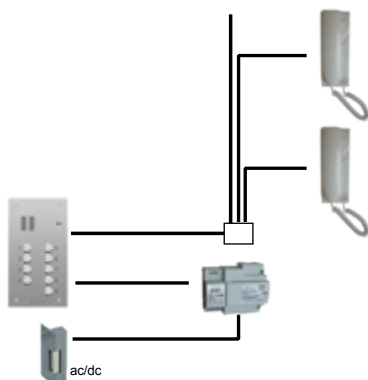
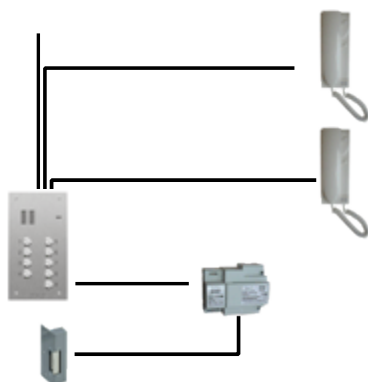
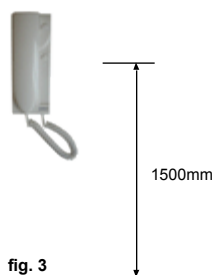


fig. 2 connections made in panel



3 Install the telephones

The telephones should be connected according to the diagram over-leaf. Ignore the dashed wires if additional features are not required.



4 Install the entrance panel

Please refer to the instructions (IN4000) supplied with the door entry panel.

5 Operation

The audio door entry system functions as follows. Upon pressing one of the external buttons the corresponding house phone sounds. When the called house phone handset is picked up, contact is established and conversation may take place. In order to operate the electric lock the push button marked by a key symbol should be fully depressed.

9307 functions

The 9307 power supply unit (PSU) comes in two parts, The power unit (9307.1) and the relay unit (9307.2). The relay unit has lock release timer (with relay output), and the power unit has 12v ac, 12v dc, and tone outputs.

When the lock release button on the phone is pressed, terminal 9 and 6 (at the phone) are shorted, causing the lock release timer to start which in turn changes the state of the relay.

The time can be adjusted between 1 – 40 seconds (approx).

The 12v ac (AC) and 12v dc (DC) terminals may be used to power lock releases up to 0.5 Amps.

CE requirements

This product was tested for compliance with EC directive 89/336/EEC with the panel connected to Mains Earth. Always ensure that external metal parts are independently connected to mains protective earth to avoid electrical shock hazard.

Call tone options

- Use 12v ac buzzer call.
Move connection from C (9307 PSU) to AC and move connections in all phones from C7 to 11. Buzzer call is louder. It is also able to drive a standard 8v ac door bell!
- Add an extension sounder
One AN7817 per call button may be used.
- A different sounder
You can use timer (SRS 5127) to trigger any low voltage sounder device.
- Solution for hard of hearing
Strobe light (SRS 5126) and inductive ear piece (314410) are available for the hard of hearing.

Remember

Always fit the lock suppressor supplied, SRS 'TZ'. This device must be connected to all electric locks and electric releases. Fit directly across the lock terminals.

Trouble shooting

The first rule of trouble shooting is to make your system as simple as possible, i.e. Remove any non-essential connections.

High pitched screech :

- Excessive amplification (volume requires adjustment)
- Unhooked handset hanging down & facing wall
- Short circuit on wires 1 & 2
- Incorrect cable used
- Poor alignment of microphone to hole in front plate.

No speech

- Check for short circuits and/or breaks on wires 1 & 2.
- Check 12V dc at speaker unit

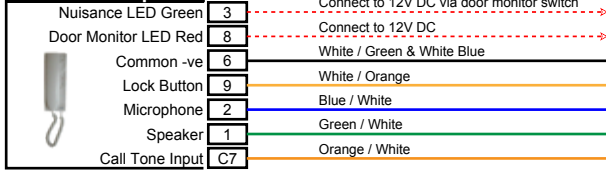
Lock release will not trigger

- Check lock connections
- Remove cable(s) from 9 at the 9307 (PSU). Trigger input with egress button. If this corrects the fault, check wire 9 to telephone.
- With a meter check lock relay output is changing state.

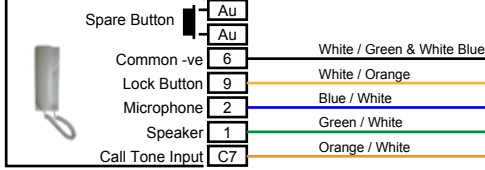
4000 Series audio door entry system n users, 1 entrance

To Following Telephones

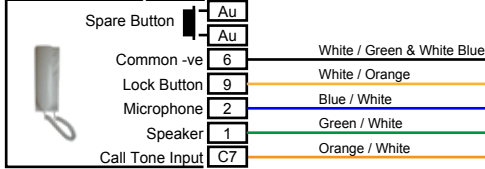
AN7577S Telephone



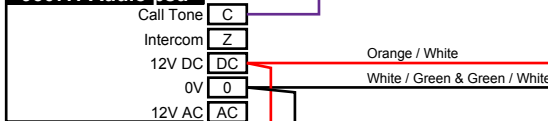
AN9102S Telephone



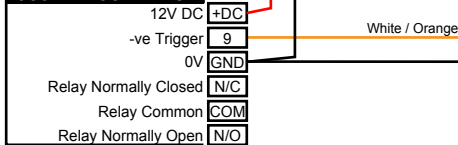
AN9102S Telephone



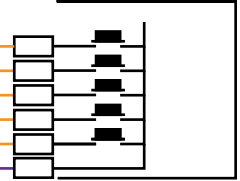
9307.1 Audio psu



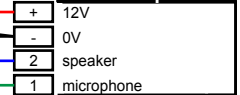
9307.2 Lock Timer



Call Buttons



5153M Speaker

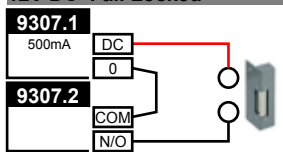


Egress Button

Locking Options

Note : 9307.1 provides MAX 500mA 12V AC or 12V DC for lock - Replace 9307.1 connections for alternative PSU if more current is required

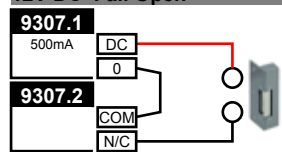
12V DC Fail Locked



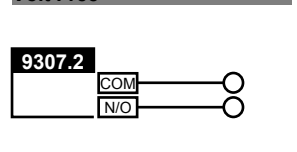
12V AC Fail Locked



12V DC Fail Open



Volt Free



Installation Notes

Cable

Maximum recommended overall distance for 4 pair (CW1308 BT spec.) cable run is 200 metres.

Make connections as shown in the diagram to avoid interference.

Simultaneous Call

You may call up to 4 telephones at the same time. Connect 1, 2, 6, 9 & C7 in parallel.

Please Note

2 wires are shown connected in parallel for terminal 6, to the -ve at the speaker unit. This is intentional and should be followed for best results.

AN7577S

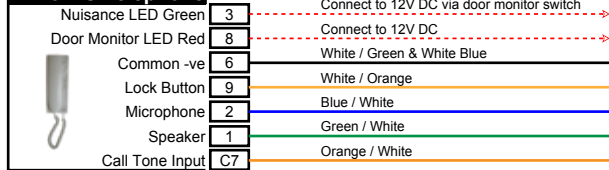
This telephone has additional terminals (8 and 3) for Door Monitor and Nuisance switch with LED indication.

Take power from the 9307.1 power supply terminal DC (12V DC).

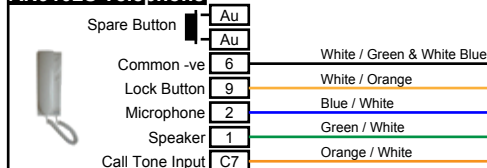
4000 Series audio door entry system n users, 1 entrance with DC50 Keypad

To Following Telephones

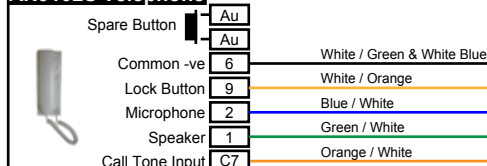
AN7577S Telephone



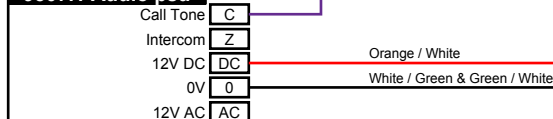
AN9102S Telephone



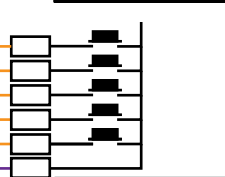
AN9102S Telephone



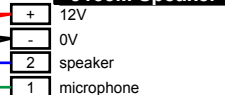
9307.1 Audio psu



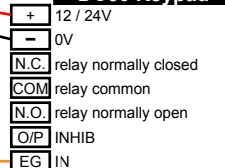
Call Buttons



5153M Speaker



DC50 Keypad



Installation Notes

Cable

Maximum recommended overall distance for 4 pair (CW1308 BT spec.) cable run is 200 metres.

Make connections as shown in the diagram to avoid interference.

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AN7577S

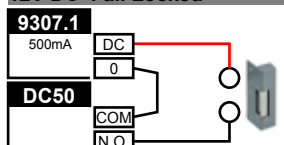
This telephone has additional terminals (8 and 3) for Door Monitor and Nuisance switch with LED indication.

Take power from the 9307.1 power supply terminal DC (12V DC).

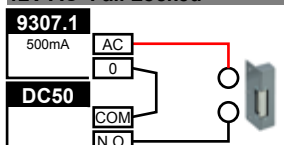
Locking Options

Note : 9307.1 provides MAX 500mA 12V AC or 12V DC for lock - Replace 9307.1 connections for alternative PSU if more current is required

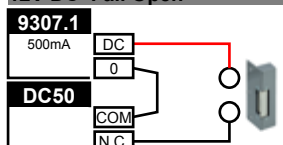
12V DC Fail Locked



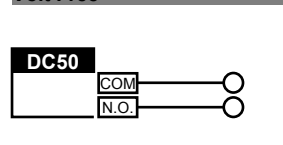
12V AC Fail Locked



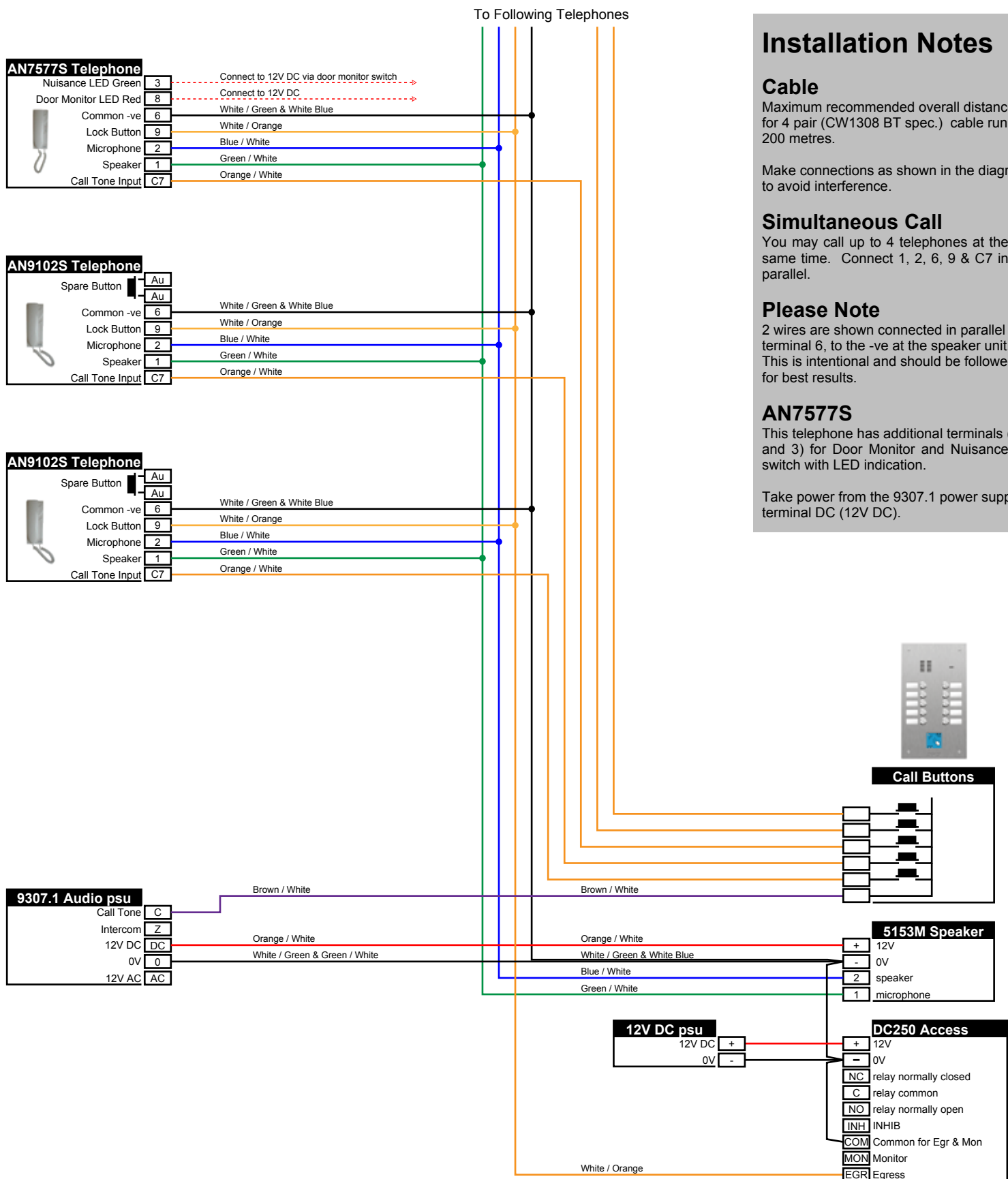
12V DC Fail Open



Volt Free



4000 Series audio door entry system n users, 1 entrance with DC250 Access Control



Installation Notes

Cable
Maximum recommended overall distance for 4 pair (CW1308 BT spec.) cable run is 200 metres.

Make connections as shown in the diagram to avoid interference.

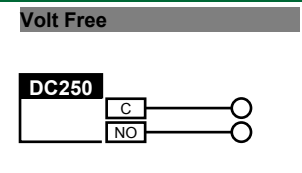
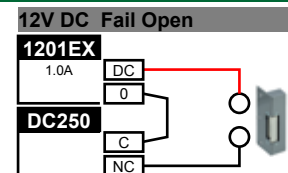
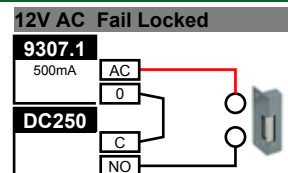
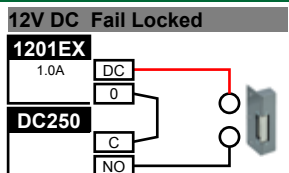
Simultaneous Call
You may call up to 4 telephones at the same time. Connect 1, 2, 6, 9 & C7 in parallel.

Please Note
2 wires are shown connected in parallel for terminal 6, to the -ve at the speaker unit. This is intentional and should be followed for best results.

AN7577S
This telephone has additional terminals (8 and 3) for Door Monitor and Nuisance switch with LED indication.

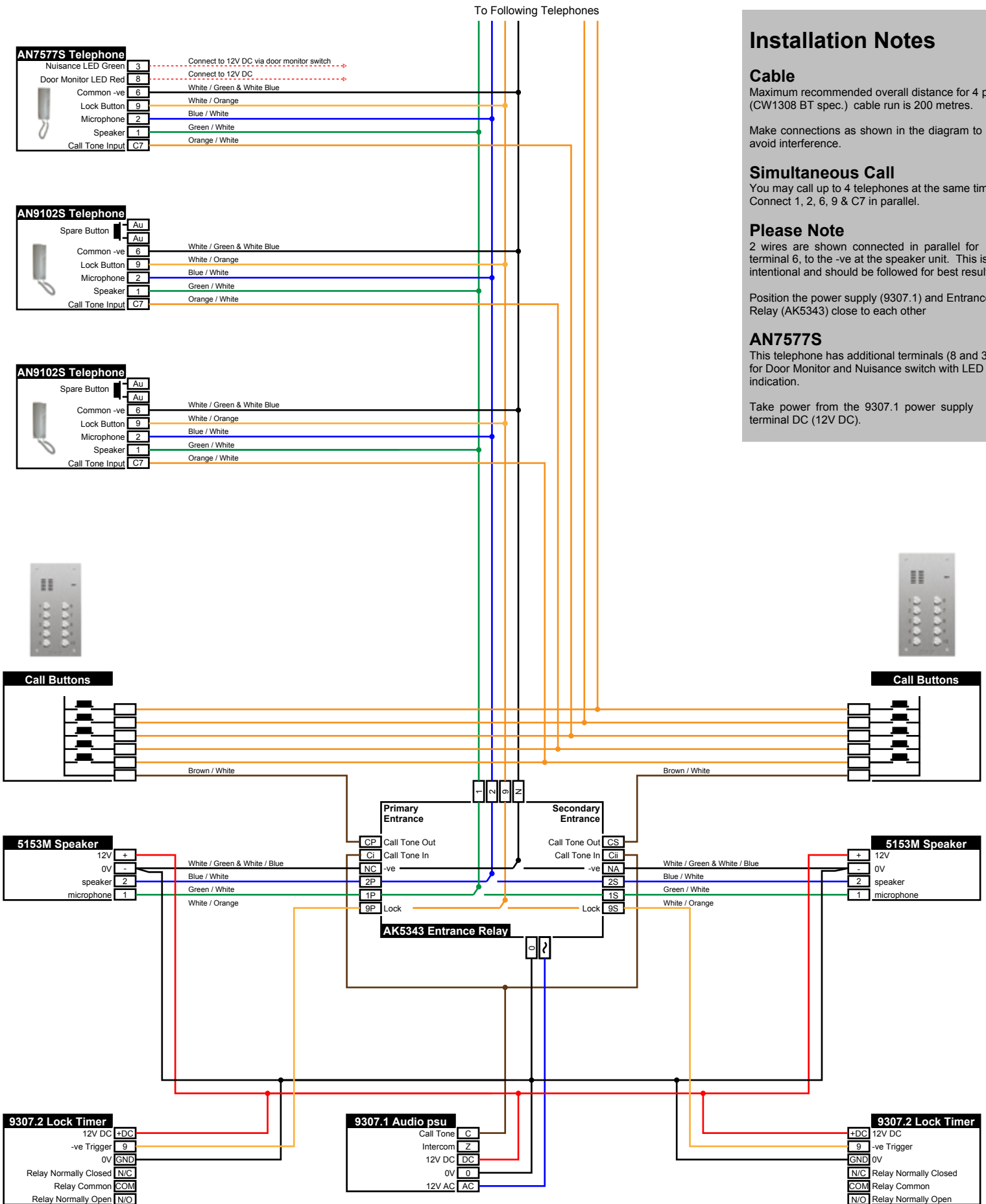
Take power from the 9307.1 power supply terminal DC (12V DC).

Locking Options



Reader connections omitted for clarity

4000 Series audio door entry system n users, 2 entrances



Installation Notes

Cable
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Make connections as shown in the diagram to avoid interference.

Simultaneous Call
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Please Note
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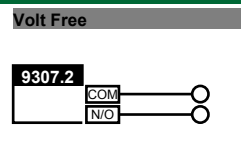
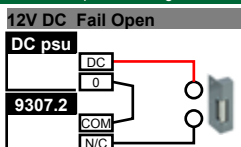
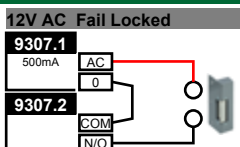
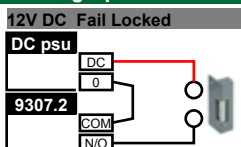
Position the power supply (9307.1) and Entrance Relay (AK5343) close to each other

AN7577S
This telephone has additional terminals (8 and 3) for Door Monitor and Nuisance switch with LED indication.

Take power from the 9307.1 power supply terminal DC (12V DC).

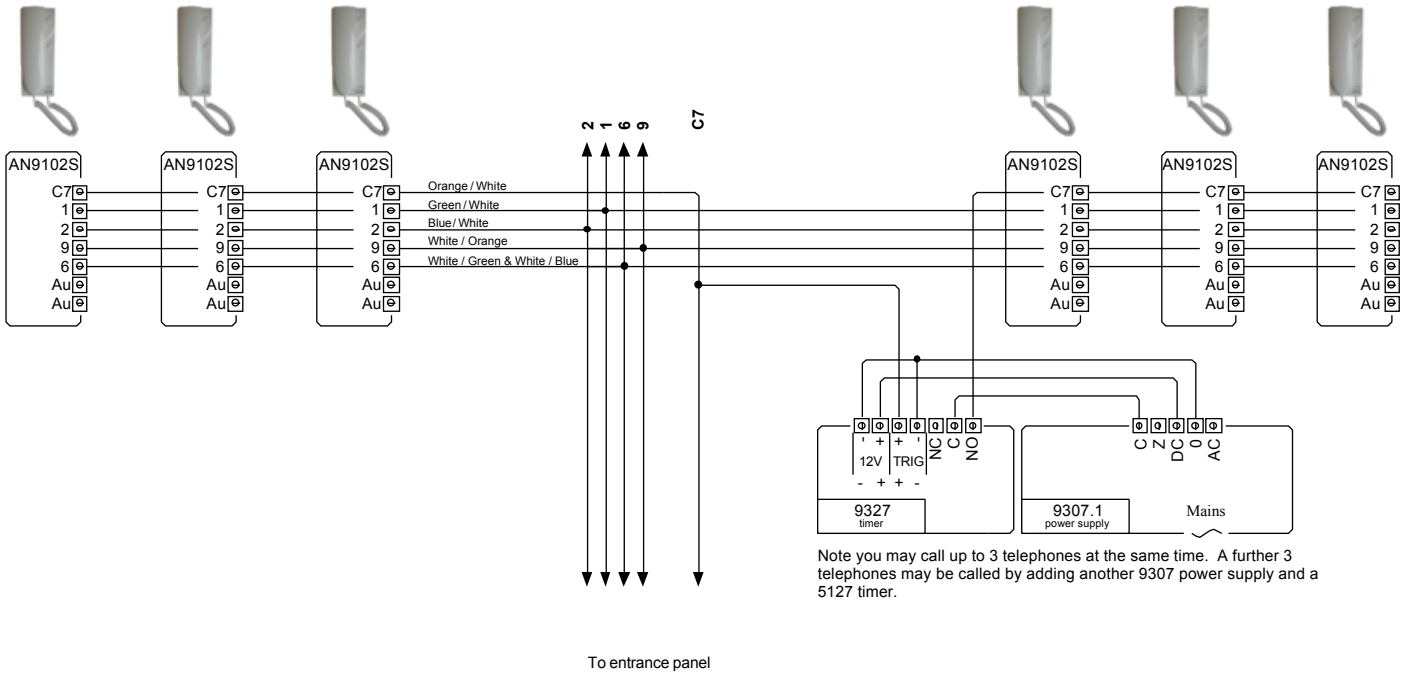
Locking Options

Note : 9307.1 provides MAX 500mA 12V AC. Do not use 9307.1 500mA DC output for locking in this installation



Drawing Reference	1D 6H SC			21.11.03
	Audio Diagram	Handsets	simultaneous call	Date

Calling 6 telephones at the same time



Drawing Reference	1D -H 1E T				21.11.03
	Audio Diagram	Handsets	Entrances	trades button	Date

Diagram showing TRADE button connections

Note:
Trade button connections are shown in bold

