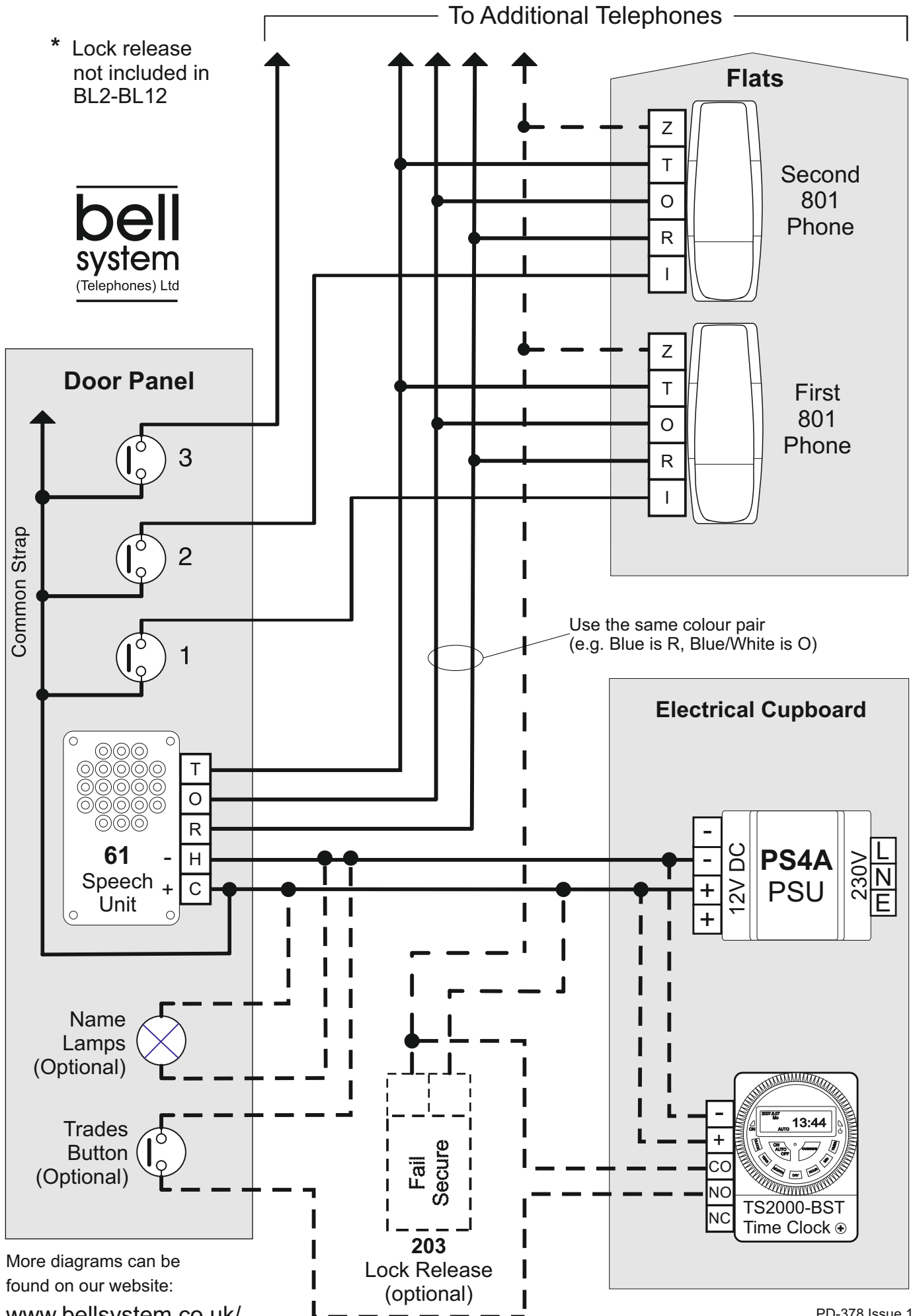


Wiring Diagram for Multi-way Audio Door Entry Systems 902-910, VRK2-VRK10 and BL2-BL12*

* Lock release not included in BL2-BL12

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More diagrams can be found on our website:
www.bellsystem.co.uk/

Installation of Door Entry Systems

The **PS4A Power Supply** must wall-mounted in a protected indoor environment such as an electrical cupboard, close to a 230 Vac electrical supply. It is intended for use only in a restricted access area. Refer to the PS4A Power Supply "Use and Installation Manual" supplied with the item, for full instructions.

The **Door Entry Telephone** is designed to be wall-mounted in a convenient indoor location.

The **Entrance panel**, containing the speech unit, is available with either a surface or flush-mounting back box. Normally this would be mounted on an outside wall near the front door, and if possible in a sheltered location.

The **Model 203 Electric Lock Release (optional)** is designed for use on an inward opening door fitted with a surface night-latch type lock. This should be installed with a small amount of play on the door as operation will be impaired if too tight.

Tradesman button (optional): This is used in conjunction with a time-clock to allow tradesmen access during restricted hours.

Cable requirements: For optimum speech clarity, it is strongly recommended that this system is installed using twisted-pair telephone cable (eg type CW1308 or CAT5e). Use one of the pairs for the R & O connections between the speech unit and the telephone. A minimum of 0.5mm diameter solid copper core cable or equivalent cable must be used.

For cable distances greater than 50m or for other lock releases contact Technical Support.

Installation: Connect all items by following the diagram overleaf. It is strongly recommended that a single telephone be connected at a time and fully tested before proceeding to the next.

Speech adjustment: The speech unit has two controls at the rear for adjustment of speech levels:

Volume A: Speech level at the Entrance Panel

Volume B: Speech level at the Telephone

Troubleshooting:

Phone won't ring should	-	Check at least 10 Vdc between "I" and "O" terminals on the phone when it should be ringing. Check "I" and "O" wires. Check the wire linking 61 Speech unit "C" to call buttons.
No speech at the phone end	-	Check core "T" for a short or open circuit
No speech at the entrance end	-	Check core "R" for a short or open circuit
Loud howl/whistle heard	-	Speech feeding back. Turn both Volume A and B controls on the back of the 61 Speech unit/grill to 'off' and then slowly adjust each up in turn until a satisfactory level of speech is attained.
No speech / insufficient speech	-	Initially establish correct operation of the Speech Unit by disconnecting all telephones and re-connecting a single telephone with a short length of cable ("R" "O" "T" only); Reconnect the telephones one at a time until the fault re-appears. Note: speech will be impaired if one or more telephones are left off the hook.
No lock operation	-	Check the lock is connected to 12V+ one side and phone "Z" the other.