100V LINE SPEAKER VOLUME CONTROLLERS
4 WIRE SYSTEM

Thank you for selecting another fine product from Amperes, VC7000 Series of volume controllers which had been a popular item in the market.

It is available in various variants from 5W to 150W 100V line, and also in different format of face plate, namely 86 x 86 mm or 70 x 120 mm.
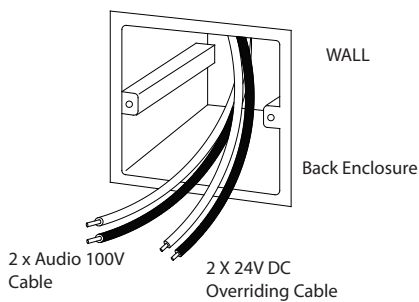
Installing this unit shall not be difficult but a thorough read through of this manual is recommended in order to avoid any undesired results and also to tap the full potential of what this unit could offer.

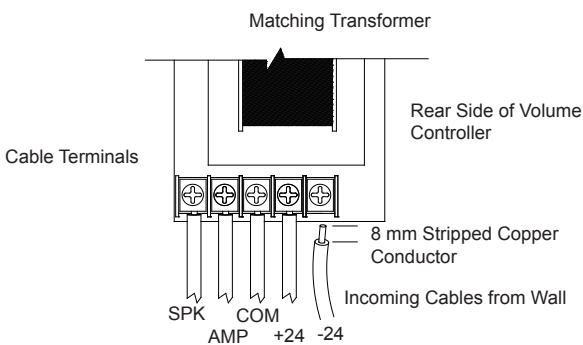Please keep this manual for future references.

INSTALLATION PROCEDURES

1 : INCOMING CABLES

WALL

Back Enclosure

2 x Audio 100V Cable

2 X 24V DC Overriding Cable

As the volume controllers works in a 4 wire system, there should be 2 x 100V line audio circuit from power amplifiers and another optional 2x24V DC emergency overriding cable from the rack.

Please use back enclosure of 50 mm depth either surface or concealed type for volume controller versions with back step down transformer (except VC7010 resistive type)

2 : TERMINATING CABLE TO VC TERMINALS

Matching Transformer

Rear Side of Volume Controller

Cable Terminals

8 mm Stripped Copper Conductor

Incoming Cables from Wall
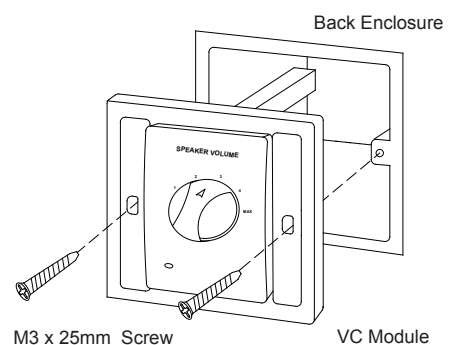
SPK   COM
AMP   +24   -24

Cables from amplifier, to speakers and the overriding 24V DC shall be connected to the module before mounting to the back enclosures.

Recommended cable size shall not be more than 2.5mm sq.

The termination marking is available and shall be :

SPK - 100V line hot (+ve) to speaker
AMP - 100V line hot (+ve) from amplifier
COM - Common for amplifier and speaker cable
+24 - 24V DC overriding (+ve)
-24 - 24V DC common (-ve)

3 : FIXING VOLUME CONTROLLER TO THE BACK ENCLOSURE

Back Enclosure

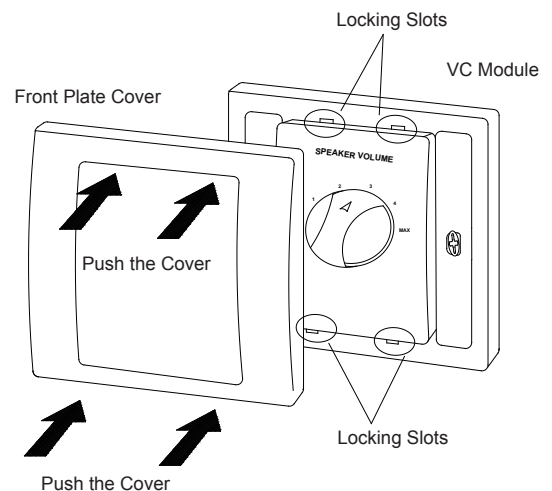SPEAKER VOLUME

M3 x 25mm Screw

VC Module

Cable connections not shown

Install the cabled VC module to the back enclosure using M3 screw provided.

For ease of installation, please do not allow too lengthy cables which may also cause damage to the VC module during installation.

4 : fIXING THE COVER

Locking Slots

VC Module

Front Plate Cover

SPEAKER VOLUME

Push the Cover

Push the Cover

Locking Slots

The final procedure shall be attaching the front plate cover to the VC assembly. Gently push the cover with the locking pin to the slots to complete the installation