

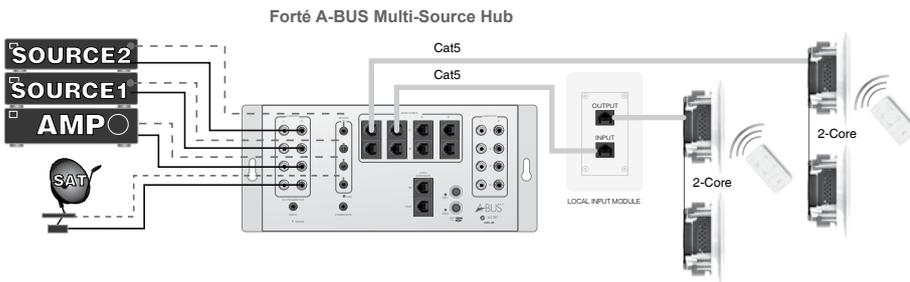
Welcome to Forté A-BUS Multi-Room Audio

We hope you enjoy your Forté A-BUS system. Your Forté A-BUS component has been designed to give high quality sound, and is simple and functional to operate. All Forté A-BUS products bearing the Forté A-BUS logo are made to the A-BUS Standard, so when you connect a Forté A-BUS input device, hub, volume control module or Forté A-BUS/DIRECT speaker they are compatible with each other. All Forté A-BUS components are simple to install, service or upgrade; thus enhancing your system with components that offer improved features should be easy.

When designing an audio system it is important to balance and match the quality of the components. Forté A-BUS delivers high quality audio signal to every room so it is important that the correct speaker match is made. Most in ceiling loudspeakers look the same but their quality varies greatly. The ABD-C6 and ABP-C6 speakers have been specifically designed for A-BUS to maximise performance and to provide the reliability needed for rugged conditions.

Please refer to each of the individual manuals on A-BUS/READY amplifiers and A-BUS hubs for further installation instructions.

Forté A-BUS/DIRECT Installation



The ABD-C6 is a pair of speakers with one speaker as the master (right channel) and has the A-BUS amplifier mounted on the back plus an infrared receiver for system control (volume level, ON/MUTE and source control) mounted behind a red lens on the front. The passive speaker is connected to the A-BUS amplifier via a 5m (15') connecting cable (supplied). Only one Cat-5 cable is required from the hub directly to the speaker location terminated with an RJ45 plug.

Infrared Repeater: A-BUS/DIRECT Speakers will pass most infrared commands without difficulty. They will repeat standard 38 kHz commands and 56 kHz commands which are often used in satellite receivers. Care should be taken to ensure the emitters are properly placed over the receiver on the front of the source component/s.

Remote IR Range: The operating range of your Remote Control will vary according to the light conditions in the room, the quality of the IR remote (and battery condition) and the system design in the components. In ideal conditions in areas with low light the range should be up to 30m (100ft) on axis; however, in areas of high sunlight or lighting such as low-voltage lighting which can emit light in the infrared frequency range the operating range can be substantially less. In direct sunlight the range may be reduced to as little as 5m (15ft). Care should be taken when planning your A-BUS system installation to locate the A-BUS/DIRECT Speakers in a position away from direct light and in a position convenient to the users to point the IR Remote Control to the receiver in the module.

Note: Remote controls are not RF devices. The commands are sent by line-of-sight and will not go around corners or work if there are any obstructions between the remote and the receiver.

Trim Pots: (left and right) are included on the amplifier board that fine-tune the output level to compensate for the length of the cable run, the efficiency of the speakers and the size of the room. There are also situations where you may want to limit the output level in a particular room. With the trim pots adjusted to minimum, the main volume control should be adjusted to maximum level, then with popular music playing the trim pots should be

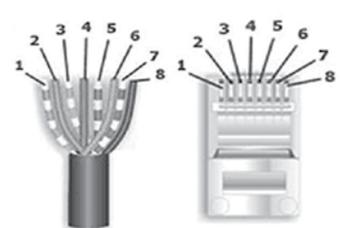
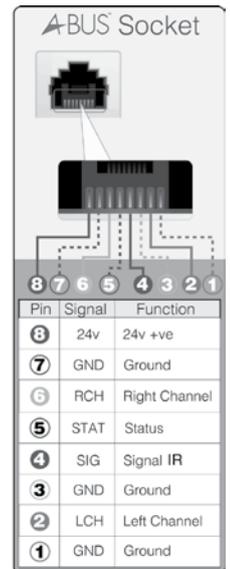
brought up to a point just below the amplifier's clipping level. (Clipping is the point where the sound starts to distort). When the trim pots are all set to the

desired level the installation may be completed.

Mono/Stereo: The A-BUS Direct speaker is equipped with a Stereo/Mono switch located on the cross over (See Photo). This feature allows you to use the speakers in both a stereo or mono mode. The stereo mode is used when both the active and passive speakers are located in the same room. The mono mode provides stereo sound at each speaker location similar to a Dual Voice Coil speaker. The mono mode is best used when the speakers are used in a large room, in a hallway, one set is used in multiple areas such as bathrooms, or multiple speakers are located in the same room. In addition, if the speakers are placed too close to each other.

System Status Indicator: The Red LED behind the red lens on the front to the master speaker. When the A-BUS system is active it is on. If an infrared signal is received it will flash.

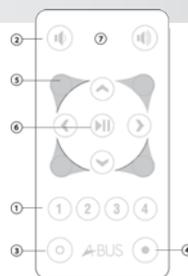
Termination: RJ-45 as T568A .



ABR-43 Operating Instructions

The A-BUS learning remote keypad with cradle includes the following commands;

1. Mode Buttons
2. Volume Buttons
3. Room On/Mute
4. System Mute
5. Coloured Buttons - single command mode
6. Control Buttons
7. Talk Back LED

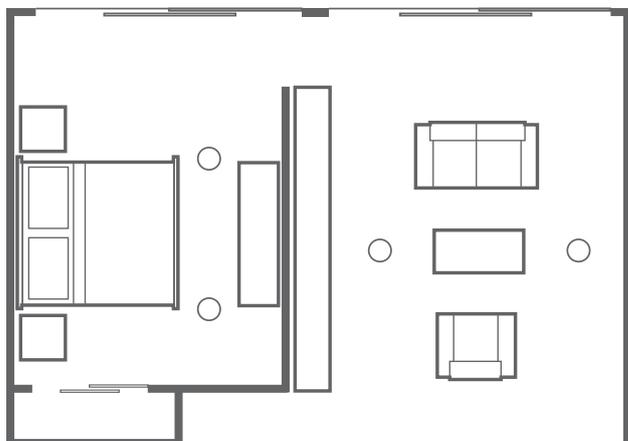


Please refer to the ABR-43 Instruction Manual for greater details.

Forté A-BUS Speaker Installation

Acoustics The speakers should be mounted in a position that will provide a stereo image to the main listening area in a room. They should not be directly above the listeners or facing directly over hard or reflective surfaces. In dining areas where defused sound is preferred the speakers should be placed in diagonally opposite corners (mono operation may be preferred). In outside locations the speakers should be away from exposed locations, preferably under eaves where the sound is directed downward and not projected towards neighbour's homes. *Caution: water surfaces reflect sound.*

Installing Check the preferred speaker location before cutting speaker holes in the ceiling for wood studs, joists, and obstructions such as plumbing, heating ducts or electrical wiring. If you are not sure of possible obstructions, cut a small hole in the centre of your outline. This will allow you to check for obstructions. The holes should be cut prior to painting of the room and the speaker should only be installed during the final fit out. Excess dust and building material should be removed from the area behind the speaker. Insulation material may be put over the speaker; however, loose particles may fall into the drive and affect the speaker's performance. Use the supplied speaker cutout to get the correct dimension of the hole needed for the speaker. When installing the cables make sure there is extra cabling available (1m, 3' minimum) at each end to make connection to the terminals easy.



Speaker Painting: If your speakers are to be painted it should be done prior to the installation. Paint guards are provided to cover the active parts of the speaker. The grilles should be painted separately; care should be taken to make sure the holes do not get blocked. Diluting the paint or automotive spray painting normally provide the best results.

Preparing Passive Speaker Cable: To prep for connection to the passive speaker, strip back the outside insulation or sheathing so the individual conductors are showing. Depending on the cable, there should be two or four separate conductors. Strip back the insulation on each conductor to show the bare copper wire. We suggest stripping enough so that 10mm of copper wire is showing. Twist cable so there is not any loose wires. Push down each clip and insert the speaker cable so it fits cleanly. The clips will be located on the back of the speaker crossover. Make sure that only BARE wire is touching the speaker clip once it slides back into place. All Forté A-BUS speakers feature spring clip terminals which are quick and simple to use.

CAUTION: Make sure to observe speaker polarity, + to + and - to -. The - ground terminal is normally black and the + is normally red. Incorrect wiring will reduce sound quality and may damage the speakers.

A-BUS/DIRECT Speakers: Make sure the speaker cable between the master driver and the passive driver is installed when the speaker holes are cut. If a longer length is required use 14 to 18 gauge twin core copper cable

When connecting the other end of the speaker cable to the amplifier or receiver, make sure to observe the same polarity as you did at the speaker connection.

To prepare the speaker for the actual installation, turn all the mounting toggles (dog ears) in toward the speaker frame. This will allow the speaker to easily fit into the precut hole. Put the speaker into the hole (the speaker cable should be connected) and make sure the speaker cable stays connected to the speaker. Carefully tuck the speaker cable up into the hole as you put the speaker into place. Hold it in place with one hand and with your other hand carefully tighten the mounting screws evenly to secure the speaker. As you tighten the screws, the dog ears will flip into position to grip into the drywall. DO NOT over tighten the mounting screws. This will cause damage to the mounting toggle and the speaker will not stay in place.

Grille Installation: ABD-C6 grille requires alignment of the lens with the IR sensor on the speaker. Align the grilles edges to the groove on the speaker and carefully push the grille on. Make sure to check all the way around the grille to ensure its sitting on the speaker evenly.

Specifications



Forté A-BUS/DIRECT

Control: Built-in IR sensor

Remote Control: supplied

IR: Sensor repeats 38KHz and 56KHz IR codes

Nominal Range: On axis, In sunlight < 15ft (5m)
Indoors > 60ft (20m)

Speakers: 1 Active (amplified) Switchable to mono or stereo, 1 Passive

System Status Indicator: Red LED

Terminals:

A-BUS Input: RJ45 Socket

Speaker Terminals: for passive connection.

Spring clip connector >14 gauge



Speaker Specification:

Speaker Type: In-ceiling, 2-way

Woofer: 6 1/2" polypropylene

Tweeter: 3/4" mylar

Power: 5 - 60 watts

Impedance: 8 ohms

Frequency Response: 55 - 20k Hz

Sensitivity: 88 dB

Grille Type: Powder-coated aluminium

Finish Dimensions: 241mm ø 76mm d

Cutout Dimension: 206mm ø



ABR-43 Learning Remote Keypad with Cradle

Colour: White

Battery: 2 x 3v DL2032

Dimensions:

Cradle: 73.8 x 117.8 x 10mm (WHD)

Remote: 49.8 x 99.9 x 7.8mm (WHD)

Warranty

Please contact your place of purchase for warranty information.



A-BUS is a registered trademark of Leisure Tech Electronics. The A-BUS technology is covered by the following patents - United States US7,181,023, US7,668,318, 6,389,139; Australia AU 739808; New Zealand NZ 502982; Mexico MX 241196; Canada CA 2301062.

All features and specifications are subject to change without notice www.leisuretech.com.au