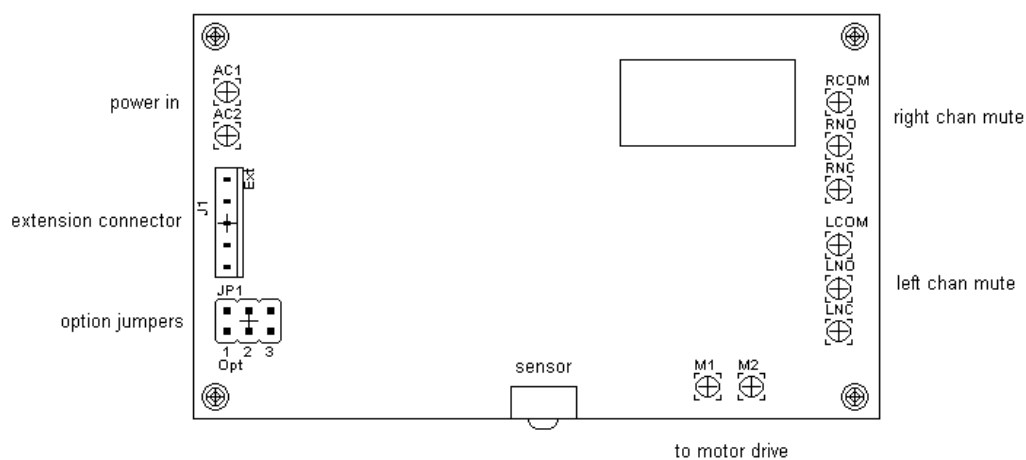


## HiFi Collective Remote Control Board

This remote control board is designed to be used to control an Alps motorised volume control, and to operate a muting relay. It responds to standard RC5 infra red commands and can either be used with the supplied simple remote control unit, or with any remote control programmed to emit standard RC5 commands.

As the board is supplied ready assembled and tested all that is required is connecting it in place in the pre-amplifier.

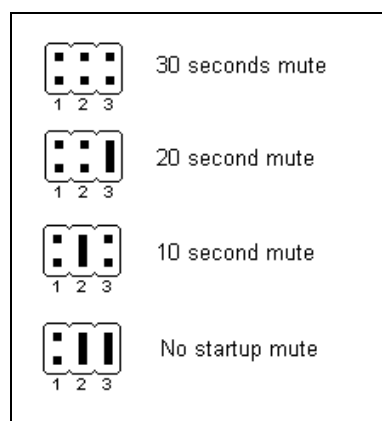
The board layout and external connections are shown below



The board is designed to be powered either from a 6.3v AC supply (typical heater supply will be ideal, but check it is not a higher voltage), or a 9v DC supply. The polarity of the supply is not important.

The extension connector J1 is intended to be connected to the optional input selection board, and for simple volume and mute control use will not be connected.

The option jumper controls the start-up behaviour of the board. The default (no jumpers connected) is to hold the mute relay in its normal state (which will be wired to mute the output) for 30 seconds, and to energise the motor output for 15 seconds to allow the control to wind down to the zero volume setting before the mute is removed. Jumper position 1 if closed, disables the motor wind down, so the control will remain in its last set position. Jumper position 2 and 3 allow the duration of the mute period to be selected as shown below.

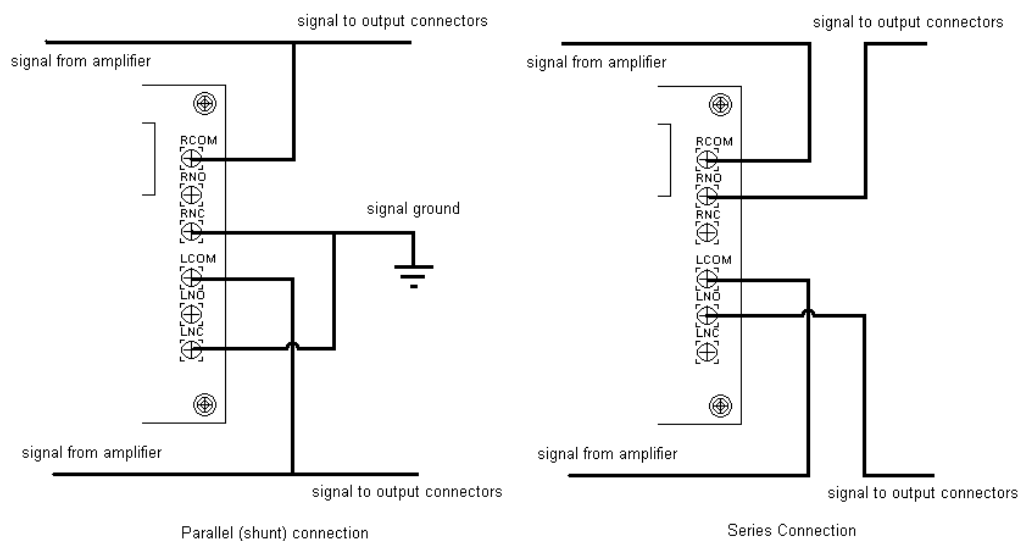


As supplied the board has all jumpers fitted which corresponds to no startup mute and no motor wind down.

The infra red sensor must be positioned so that the signal from the handset can be seen by the sensor so the board will normally be mounted with the sensor behind a small hole in the front panel. The sensor is mounted with sufficient lead length to allow it to be removed from the board and mounted on flying leads if required. If this is done ensure the same connection polarity is maintained between the sensor and the board. HiFi Collective are not responsible for any damage caused to the board by removing the sensor from the board as supplied.

The motor drive pads are to be connected to the motor unit mounted on the rear of the Alps volume control. If in use, the direction of control is incorrect, reverse the two connections to provide the correct control motion.

The six relay pads can be used to mute the pre-amplifier output. The connections may be used either in series or parallel with the output. Parallel connection has the advantage that during normal use the signal does not travel through the relay contacts, but when mute is active the amplifiers output is shorted to ground through the relay, so should only be used if the amplifier is designed to permit driving into a shorted load. If unsure use the series connection method as shown.



To use the supplied simple remote with the board, follow the instructions included with the remote control and program to use code 001 (Philips/Loewe). Other remote control units can also be used if required as long as they can be programmed to emit RC5 codes at a frequency of 36Khz. For example, the UK Sky+ remote can be used programmed to 0584.