## Realtime Playback Sound Module

Thank you for purchasing one of our Modules. We hope it will give you many years of trouble free service. If you have any problems with your module, please either email or contact our technical support helpline first on the number provided on the last page.

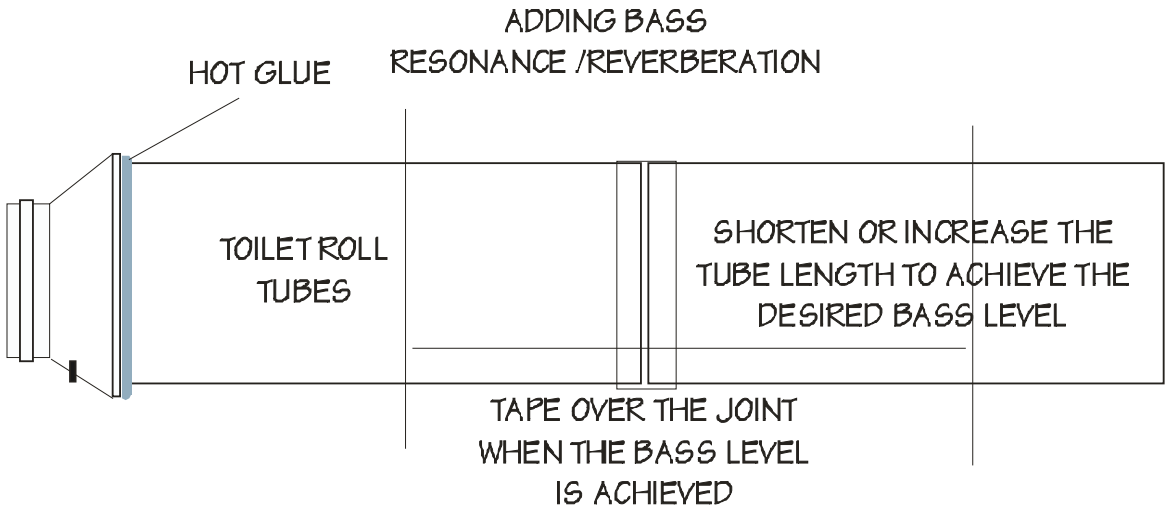
Before pressing your module into service, please carefully read through the installation drawings, notes and information below.

Your Module has been designed and built to playback any sound file that is audible to the human ear from the Micro SD Card supplied. Using a memory card on the module means that file structure supports a 16 bit File Allocation Table (FAT16) file system which is compatible with most modern PC's. Using the system allows you copy files to and from the Micro SD Card with an appropriate SD Card interface.

The Sound file must be converted to a Windows 16bit Audio/Video format (WAV) file, the easiest way to convert any audio file to WAV format is through using an Audio Editor such as Audacity. Audacity is an excellent free program written by a worldwide team of volunteer developers which is very easy to use and produces first class superb results. A WAV file being un-compressed audio allows a file of any length or duration to be played back in real time as a continuous file which is ideally suited for RC Models to where an average On to Off duration is about 15 minutes.

Your Module is provided with one demonstration Engine Sound file and one Fog Horn Sound File. Please back these up onto your Computer before plugging the Module in. The files we supply are royalty free so you may do with them as you wish. Delete the File you do not want use on the micro SD Card leaving the file you want to here.
Connect the Speaker/s and plug the module into any Switched Channel on your RC Receiver. Switching On the Channel will cause the on-board LED to light up, a short delay in sound output is normal as the processor determines the file length. The Speakers we supply are an 8 Ohm 50mm diameter Mylar cone fabrication with a frequency response range of 0-5 - 500Hz. You have an option to order One, Two or none should you wish to use your own.

The Output being High Quality 'Real-Time' Audio and as such you may need to optimise the sound bass depth and quality. Several little tips, one of which is to carefully Soft Glue a Cardboard Tube to the Speaker, then cut the tube length to optimise the sound.





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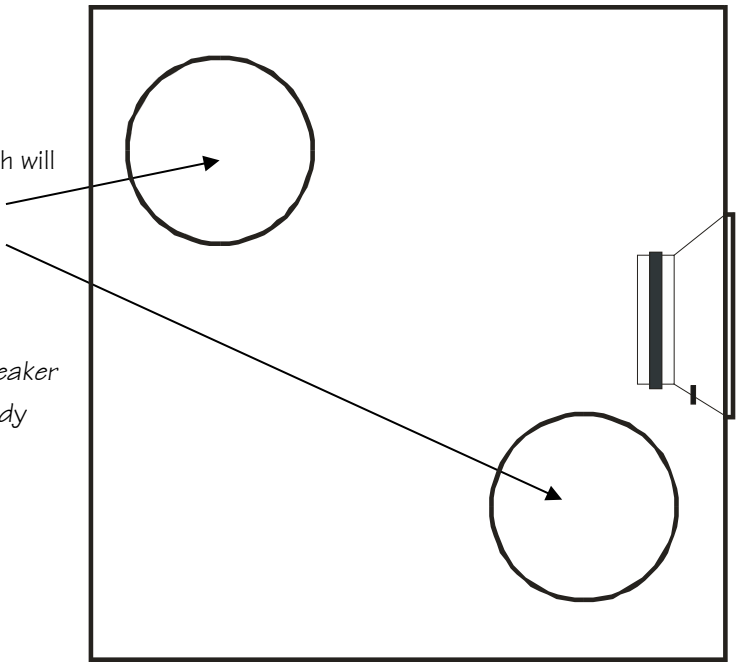
Generally speaking, good quality sound reproduction on is more of an 'Art than a Science' as there are so many variables which can make phenomenal differences to the output quality, and again what works really well for a 'Fog-Horn' Module may be useless for a Heavy Ordinance Cannon. However with very simple and inexpensive experimentation the module will out-perform most of its competitors in both Sound Output Quality and expensive power consumption in the field.

Another more in depth method is construct a 100mm Cube (approx) in stiff cardboard or Balsa Wood around the back of the speaker creating a resonance chamber which will add further bass quality and resonance.

Cut several holes into the Cube which will allow the speaker to breath.

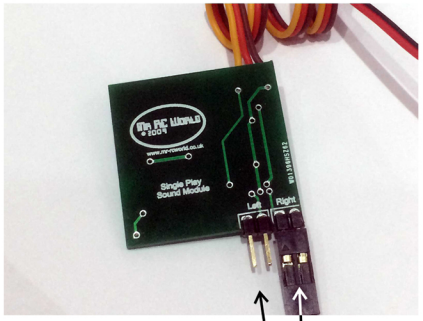
*(In essence you are making a Loudspeaker Cabinet around the speaker in the body of your project)*



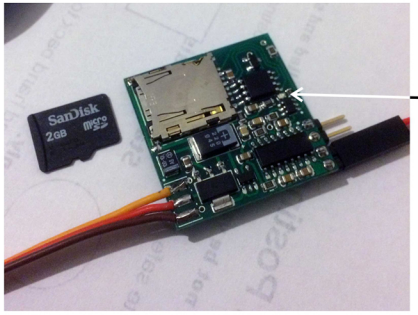
Should you need technical support for your purchase, please call +4475 9998183 (075 99998183) between 9am and 5pm Monday to Friday, but please remember, we are a Micro-Business, We **DO NOT** have a dedicated sales desk or enquiries/support staff. Consequently it may take a few attempts to speak with us. If you find this frustrating, please drop us an email with your name and a phone number and we will return your call as promptly as possible.

Email: support@mr-rcworld.co.uk

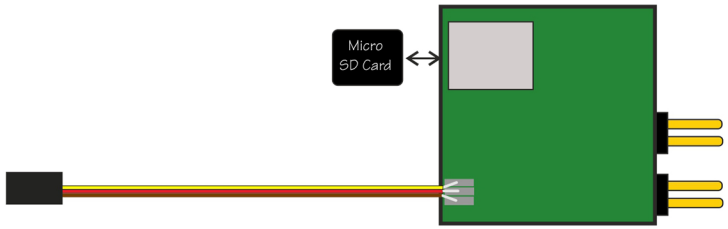
E.&O.E.




Speaker Outputs




Activity LED




| Rev No | Mr RC World |
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| JAN 2017 | |
| RC Real Time Playback | |
| Sound Module | |
| Eng. | |
| Scale 1:1 | Drawing No 1 of 1 |