Mosquito MK4

Additional setup instructions

Functions list – Selectable

1. High frequency – Affects teens and to a lesser extent, people up to the age of around 25
2. Low frequency – Audible to people of any age
3. Audible beep – A beep that is audible to everyone once per minute to warn people that the unit is running
4. Volume – 4 selectable volume levels. 94dB, 96 dB, 100 dB & 104 dB

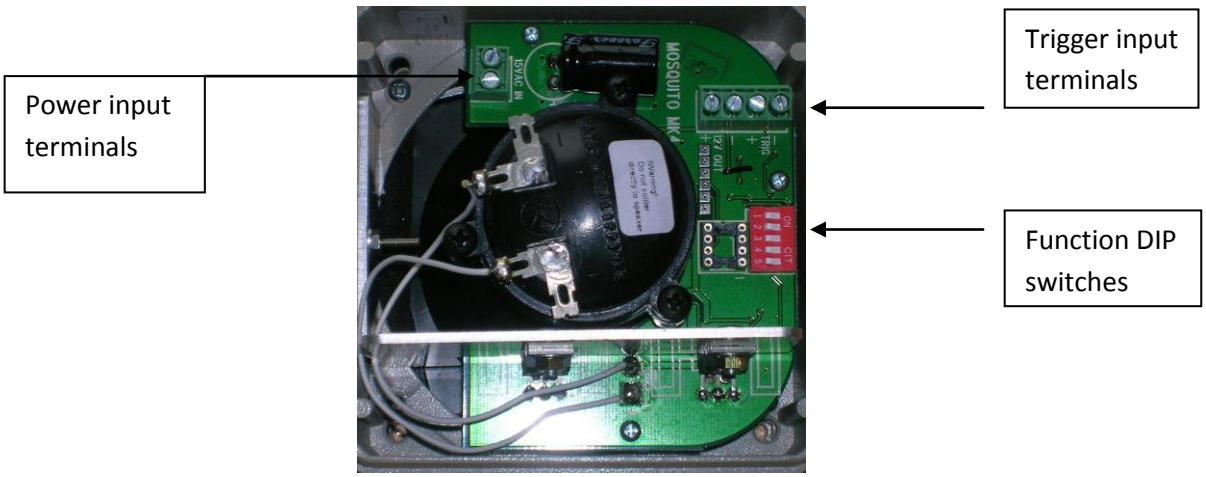
Important considerations before deployment

1. The sound from the Mosquito MK4 is HIGHLY targeted. This means that the sound goes where it is pointed. The sound has a dispersement angle of 60 degrees from the front of the unit. This means that there must be a CLEAR line of sight between the Mosquito and the area to be targeted.

2. The sound from the Mosquito does NOT penetrate windows, doors, walls, fences or even dense shrubbery.

3. The Mosquito should be used ONLY when a problem is experienced and at no other time.

Wiring, triggers and settings



Power connection

Most people purchase a 15v AC power supply with their Mosquito MK4. If you have not ordered a power supply with your Mosquito, you can either obtain one from our website or purchase one from your local electrical wholesaler. If purchasing from a wholesaler, you must specify either a 15v AC or 24v DC power supply rated at 800 mA.

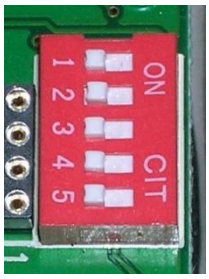
Once you are ready to connect the power supply to the Mosquito MK4, locate the power input terminals (top left of above image). There is no polarity issue to worry about, so it does not matter which wire goes in which side. Just ensure you tighten the connections fully.

Function selection

First of all, you must decide which functions you wish to use. Choose these from the Function List above.

The function selection switches (DIP switches) can be located on the red block at the middle right hand side of the above picture.

The following picture shows ALL DIP switches set to the OFF position. If your DIP switches are in a different position, please set them ALL to the OFF position before proceeding.



DIP switch function selection block

DIP Switch # 1.

This is ONLY used when a PIR (movement sensor) or Remote Control is being used to activate the Mosquito. If you are NOT using a PIR or Remote to trigger the Mosquito, this switch MUST be in the 'OFF' position.

If you are using a PIR to trigger the Mosquito, function chip # 2 MUST be fitted. Setting this DIP switch to the 'ON' setting will allow the Mosquito to run for 5 minutes each time the PIR detects movement. If this DIP switch is set to 'OFF' the Mosquito will run for 1 minute each time the PIR detects movement.

If you are using a Remote Control PRO., function chip # 3 MUST be fitted, then this switch MUST be set to the 'ON' position (see further details below).

DIP Switch # 2.

If this DIP switch is set to 'ON' the Mosquito will operate in 'Low frequency' mode which is audible to people of all ages. If this switch is set to 'OFF' it will operate in 'High frequency' mode audible to younger people only.

DIP Switch # 3.

If this DIP switch is set to 'ON' there will be an audible beep that everyone can hear once every minute that the Mosquito is running. If the switch is set to 'OFF' there will be NO audible beep.

DIP Switch # 4 & 5.

To set the volume you require, follow the configurations for switches 4 & 5 below.

94 dB – Switch # 4 'OFF' & switch # 5 'OFF'

96 dB – Switch # 4 'OFF' & switch # 5 'ON'

100 dB – Switch # 4 'ON' & switch # 5 'OFF'

104 dB – Switch # 4 'ON' & switch # 5 'ON'

Trigger connection. (With function chip # 3 fitted)

If you wish to use a Pro. Remote control to trigger the activation / deactivation of the Mosquito, the remote must be connected to the 'Trigger input' block located in the top right corner of the first image above.

Connect the switching wires from the Pro. Remote to the 'TRG –' & 'TRG +' terminals. You MUST then set DIP switch # 1 to the 'ON' position.

Connect the power wires from the remote Pro to the '12v +' & '12v –' terminals located on the left side of the 'Trigger block'.

Trigger connection. (With function chip # 2 fitted)

If you wish to use a PIR to trigger the activation / deactivation of the Mosquito, the PIR must be connected to the 'Trigger input' block located in the top right corner of the first image above.

Connect the switching wires from the PIR to the 'TRG –' & 'TRG +' terminals.

Connect the power wires from the PIR to the '12v +' & '12v –' terminals located on the left side of the 'Trigger block'.

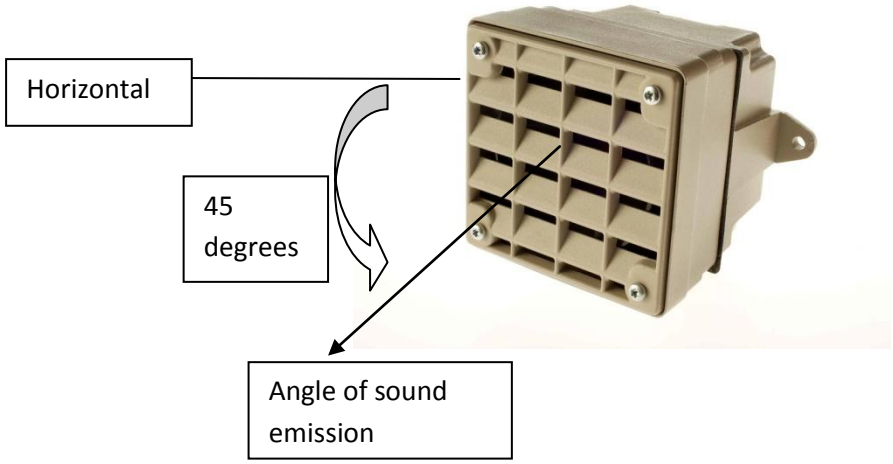
The length of time the Mosquito runs for each time movement is detected is set by changing the position on DIP switch # 1. See above for details

Mounting.

The Mosquito MK4 housing has a louvered front (see below). It is VERY important to note when installing the Mosquito that the louvers project the sound down at a 45 degree angle. This means that if you mount the Mosquito directly on to a wall, the sound will project down at 45 degrees.

If the area to be targeted is further away than this 45 degree angle will cover, you MUST use the mounting bracket (supplied) and either angle the unit upwards (to increase the range) or downwards (to reduce the range).

Mosquito MK4 – Example of sound projection when mounted flush to a vertical surface



Speed of effect

The Mosquito has been known to work within 30 seconds of being activated, however, sometimes it can take a week or two of regular use for the teens to stop causing the problems and or hanging around at the location.

The speed at which the Mosquito will have the desired effect will depend on several factors…

1. Volume setting
2. Frequency setting
3. Distance to target area
4. Ambient noise levels.

The quieter the location and the closer to the target area you can install the unit, the faster you will see results.