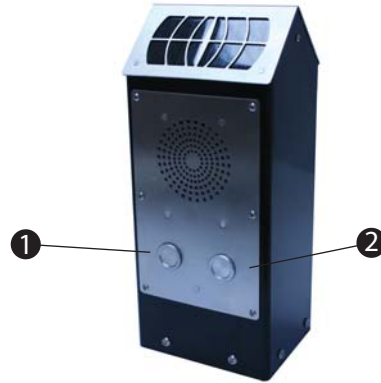


Operation of the Solar Post Button could not be simpler...

1. **Push** button 1 to hear audio track 1.
2. **Push** button 2 to hear audio track 2.



ADJUSTING THE VOLUME

There are 4 preset volume levels for the Solar Post which can be selected via the programming port. Once selected, the volume setting is stored and this level will be used for all messages.

1. Ensure the Solar Post is not playing a message.
2. Fully insert the volume dongle or programmer head into the four clear speaker holes. (See diagram right)
Note – If you are using the programming head please ensure that the SD card is removed and power on.
3. Press a button for 3 seconds. The unit will play the volume setting message “Volume level 1, volume level 2, volume level 3, volume level 4”. The solar post repeats this message again. The volume level changes for each message to match the volume setting i.e. 1-4.
4. When the desired volume level is heard you should remove the dongle (or programmer head) before the next volume message is played. This sets the volume to the last setting played.
5. The solar post will beep momentarily to indicate that the volume level is stored and the unit is ready for use at the new setting.
6. Test the volume setting by pressing the button. Store the dongle or programmer safely for future use.

The Solar Post is capable of giving playback statistics. This will tell you the total number of times that the unit has played back messages. To get this information please follow the steps below.

1. Ensure the Solar Post is not playing a message.
2. Fully insert the volume dongle or programmer head into the four clear speaker holes. (See diagram right)
Note – If you are using the programming head please ensure that the SD card is removed and power on.
3. Press a button for 3 seconds. The unit will play the volume setting message “Volume level 1, volume level 2, volume level 3, volume level 4”. This will then repeat a second time. Leave the volume dongle in.
4. The solar post will next play the playback statistics “message play total zero zero zero zero zero”. This number will be repeated 3 times. You need to remove the volume dongle at this stage unless you want to erase the playback data (back to zero).
5. To erase the playback data simply leave the volume dongle in the unit. You will hear 5 pairs of warning beeps before the information is reset.

The system will then loop to the start. The message sequence is;
Volume sequence x 2 plays
Message Playback Totals x 3 plays
Erase beeps x 5 plays

6. Remove the dongle from the unit. The volume setting will remain as set before but it is advisable to test the unit by pressing a button. Store the dongle or programmer safely for future use.

SPECIFICATIONS

Messages

Message storage medium:	32MByte Flash Memory (on board)
Maximum number of messages:	2 files on card no more, no less.
Message encoding format:	Windows PCM (*.wav)
Message sampling type/rate:	16 bit mono / 22.05, 16.0, 11.025 KHz
Maximum total message length:	>24 minutes @ 11.025KHz
Memory Erase Time:	Approx 90 seconds
Programming Transfer Rate:	Approx 20seconds/MByte of message
Message selection via 2 buttons	
Please note: Programmers are not provided as standard with the solar post but are available at additional cost.	

Message Output

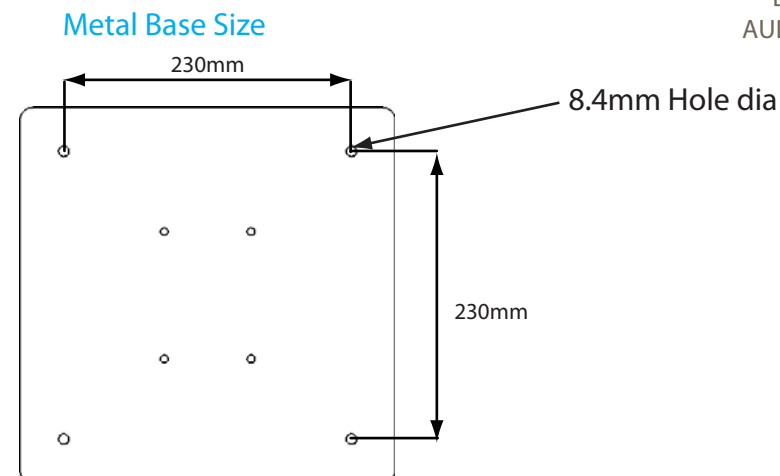
Playback sample type/rate:	12 bit mono / 22.05, 16.0, 11.025 KHz
Audio output:	0.75W into 8ohm speaker
Freq. range:	75Hz-20kHz

Power

4 built in Solar Panels charging 3 1.2V long life batteries at up to 100mA per hour.
3 x 2200mAh long life batteries.

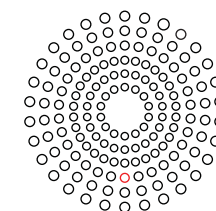
Weight

Short metal boxed 7KG
Tall metal boxed 10KG
Short oak boxed 25kg
Tall oak 60kg



How can you tell if your solar post is charging?

As of SP005 we have installed an red LED light which gives a charging blink every 1 minute when enough light is hitting the solar pannels to charge the internal batteries.



Wall Mounting a Short Solar Post Button

1. Remove the 6 security screws from the stainless steel front plate and take out the electronics. Disconnect the electronics by pulling the black connector apart - this disconnects the solar panels.
2. Offer the black solar post case upto the wall where it is to be mounted and mark through the rear plate the four fixing holes.
3. Screw through the solar post rear plate attaching the solar post the the wall.
4. Reconnect the solar panels by clicking the black connector back together and screwing the solar post front plate back onto the case via the 6 security screws.

PROGRAMMING GENERAL INFO

The audio files are initially created on a computer. The files are copied to an SD card which is inserted in the hand-held programmer.

The programmer is then connected to the Solar Post and the file transfer process is started. The files are copied to the audio board and stored on the internal on board memory. After completing the transfer, the programmer is removed from the U-Turn and it is ready for use.

The audio file format for the system is Windows PCM file format (i.e. .wav files). The audio must be mono, 16 bit samples at 22.05 KHz sampling (16KHz or 11KHz sampling rates are also allowed). The audio should be normalized to 100% amplitude to ensure best quality when played back on the system.

We recomend converting your audio using our encoding guide and software: http://www.blackboxav.co.uk/product-downloads/audio_encoding_guide.zip

The SD card MUST be formatted as FAT (not FAT32) with a blank volume name before copying the 'wav' files. This is done by right clicking the SD drive icon from 'My Computer' and selecting FORMAT.

The audio files on the PC hard disc MUST be named '01' and '02'. There can be a maximum of 2 audio files on the SD card.

You then copy each file in turn from the PC hard disc to the SD card root directory. Do not put any other files on the SD card.

Note that copying files to the SD card can take longer than the computer indicates i.e. the computer will show that copying is finished but there is still data to be transferred to the card. Please ensure all files have been copied to the SD card before it is removed. The best way to confirm this is to 'click' the 'Unplug or Eject Hardware' button in the 'System Tray' icons (bottom right of screen), and then select 'STOP xxxxxxxx' where xxxxxxxx represents the SD card drive. If all the data has been transferred then a message will indicate that you can remove the card, if not then wait a while and try stopping the device again. Remember that you should not have 'My Computer' or 'Windows Explorer' accessing the SD card at this time otherwise the computer will assume the card is in use and will not allow it to be removed.

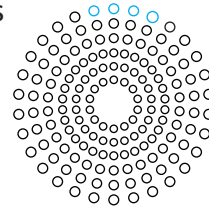
The programmed card should then be inserted to the programmer with the label side up.

PROGRAMMING PROCEDURE

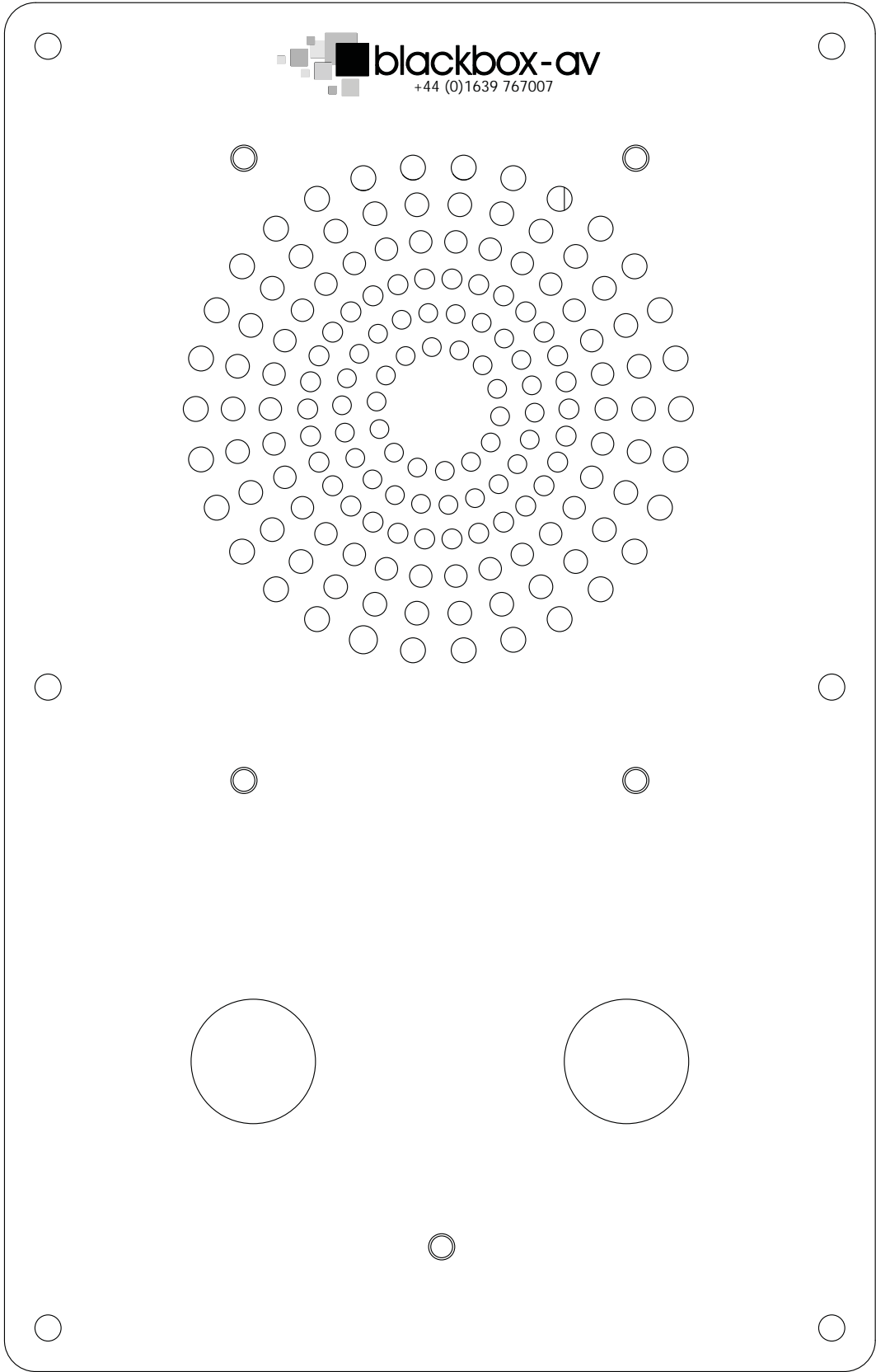
The procedure for copying the files into the Solar Post internal system is as follows:-

Note; Before programming please ensure there has been no message playback for 15 seconds.

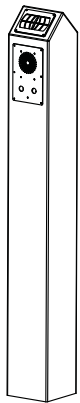
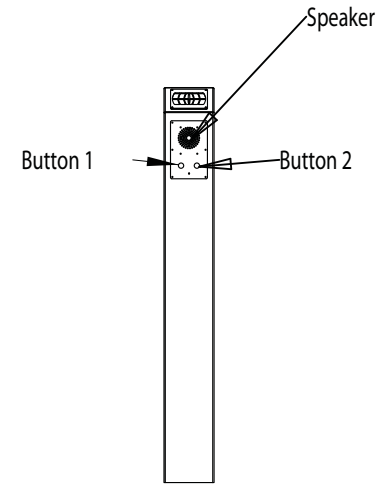
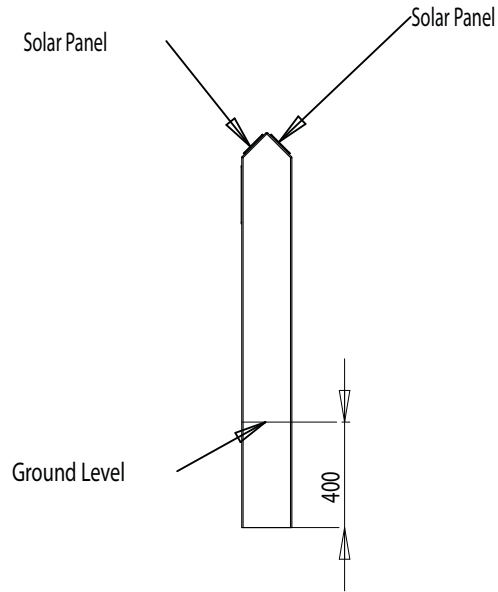
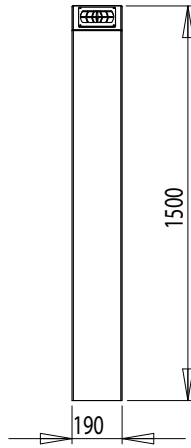
1. Ensure the SD card is inserted in the programmer and the programmer is switched OFF before beginning the programming process.
2. Look carefully at the speaker holes; you should notice 4 holes which are clear from the protective mesh. They are located in the outer ring, top right of the speaker hole array. (See diagram) Align the programmer head pins to the 4 outer holes of the speaker grill. Do not force the pins in to the holes.
3. Switch the programmer ON – the RED LED lights, wait until the RED LED flashes.
4. Press and hold any button until the AMBER LED lights and remains lit until the memory is fully erased (approx 90 seconds).
5. The GREEN LED will then flash as the message data is transferred. This could take several minutes (20 seconds per MByte of data).
6. When all messages are programmed, all 3 LEDs go off, and the solar post will begin to play the volume level routine. Select your volume by removing the programmer at the desired level.
7. Test the solar post content by pressing a button. Switch OFF the programmer off and store in a safe place for future use.



SOLAR POST BUTTON FRONT PLATE



TALL OAK



Top

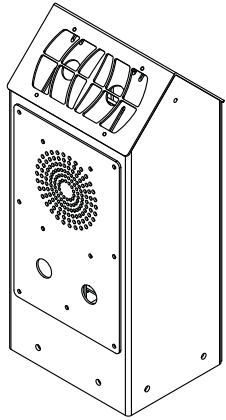
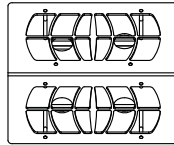
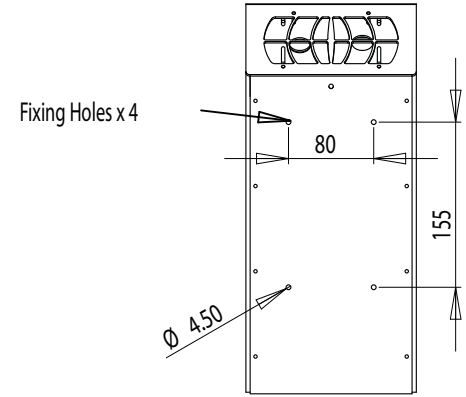
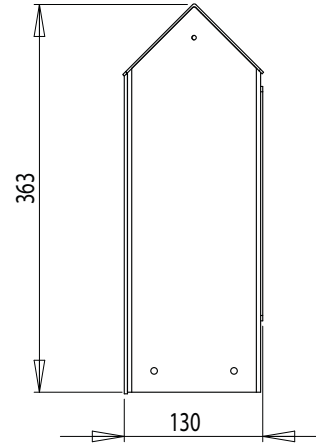
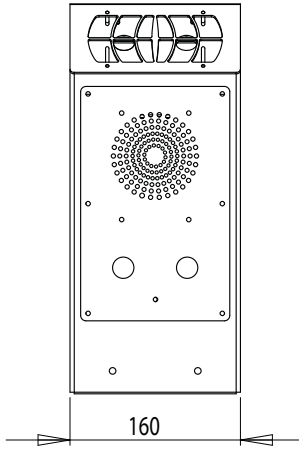
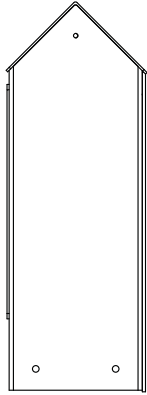
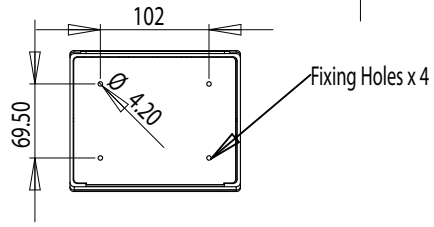


Bottom



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH: Stained		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		Drawing Number	
								blackbox-av.co.uk		01639 767 007	
								TITLE: Solar Post Button Tall Oak			
DRAWN	NAME	SIGNATURE	DATE								
CHK'D	Chris Crayford	CDC	04/10/11								
APP'VD											
MFG											
QA				MATERIAL: Green Oak				DWG NO. SPB-Assem-041011		A3 V1	
				WEIGHT:				SCALE:1:20		SHEET 1 OF 1	

SHORT METAL



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH: Powder coated black		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		Drawing Number	
								blackbox-av.co.uk		01639 767 007	
DRAWN David Knight				SIGNATURE DK		DATE 4/10/11		TITLE:			
CHKD Chris Crayford				SIGNATURE CDC		DATE 4/10/11		SPB - Short Metal Assem			
APPVD											
MFG											
QA								MATERIAL:		DWG NO.	
								Aluminium 2mm		SPB-short-metal-assem-41011-v1	
								WEIGHT:		SCALE:1:5	
										SHEET 1 OF 1	
										A3 V1	