

# SOLAR POST GUIDE: PIR

Operation of the Solar Post PIR could not be simpler, it senses when a visitor is near and starts playing a message!

Note: Post is configured in factory to play 1 message. Bespoke options are available but must be pre-ordered.

Passive Infrared Sensor

Programming Dongle



## First time Set Up

The Solar Post will be in 'Transit Mode' when it arrives. Messages will not be activated in this mode.

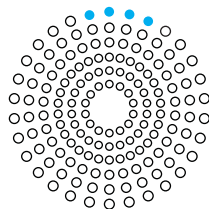
To get out of Transit mode simply place your Programming Dongle (above) in the correct slots (see below) and activate the PIR. This will activate a greeting message and unlock use of your Solar Audio Post. See the 'Programming' section for instructions on how to upload your audio.

## Configuring Your Solar Post

There are various configuration options for your Solar Post. To access these insert the Programming Dongle (supplied) into the required holes (see diagram). You do not need a USB Stick attached to access the settings.

If a message is playing it will be interrupted, or if no message is playing simply wait approximately 2 seconds and the Solar Post will begin taking you through the settings options.

Follow the audio instructions and remove the dongle when you hear the function you require. Repeat this process to access consecutive functions. The functions are listed in the following order;



1. Adjust volume settings
2. Update media content (Program)
3. Night time configuration
4. Timer configuration
5. Playback Statistics
6. Erase Statistics
7. Battery and solar test
8. Put unit into transit mode
9. Exit menu

## Adjust Volume

Remove the dongle at the Adjust Volume Settings option, then replace the dongle when instructed. The solar post will now go through volume levels 1-10, when you get to the desired level remove the dongle and this level will be stored.

## Update Media Content (Program)

Here you update the audio messages available on your Solar Post. Please see the programming instructions on page 3.

## Night Time Configuration (auto power off)

This setting allows you to configure the Solar Post to power off at a certain level of light (i.e you can set it to power off at night).

Remove the dongle at the Night Time Configuration option, then replace the dongle when instructed. The Solar post will now go through two options, either disable night time mode (standard) or store the current light level.

If you remove the dongle and 'store the current light level' the Solar Post will measure the current light levels and power off when that level is reached each day. We advise you only do this at night to ensure the Solar Post does not simply power off during low light conditions.

**Note:** When powered down the Solar Post will still allow access to the configuration settings with the use of a dongle.

## Timer Configuration (message delay)

This setting dictates how long between the activation of a message the Post waits to activate a second message (or the same message again if you have a single message on your post).

Remove the dongle at the Timer Configuration option, then replace the dongle when instructed. The Solar post will now go through timer options, first minutes from 0 - 5 in increments of 1 minute then seconds from 0 - 55 in increments of 5 seconds. You will be told what settings you have chosen once finished.

## Playback Statistics

This setting allows you to access the playback statistics for your Solar Post, remove the dongle at the Playback Statistics option then replace the dongle when instructed. It will list a number of statistics in the following order;

1. Total messages played for this period  
(can be reset in the Erase Statistics Option)
2. Total messages played for each Track if you have a bespoke amount.  
(can be reset in the Erase Statistics Option)
3. Total messages played  
(this statistic can not be erased)

Each statistic is given in 6 digits, i.e if Track 1 has been played 25 times, the Post will say Zero Zero Zero Zero Two Five.

Removing the dongle while these statistics are being listed will not affect them in any way.

## Erase Statistics

This setting allows you to erase the playback statistics for;

1. Total messages played for this period
2. Total messages played for Track 1 - (bespoke amount)

Remove the dongle at the Erase Statistics option, then replace the dongle when instructed. You will then be warned that the statistics are about to be reset, to cancel this remove the dongle before the 5 beeps end.

## Battery and Solar Test

This setting allows you to perform a battery and solar test for your Solar Post. Remove the dongle at the Battery and Solar Test option, then replace the dongle when instructed.

You will then be informed of your battery level in Volts, and whether or not there is a charge from the Solar Panels.

**Note:** The Solar Post will inform you when the charge falls below 4v and no longer play messages.

## Put Unit Into Transit Mode

This setting is used when the Solar Post is in transit and effectively shuts it down for travel. Remove the dongle at the Transit Mode option then replace the dongle when instructed.

When in transit mode messages will not be activated, if the PIR is activated you will just see a blinking red light inside the speaker.

# PROGRAMMING

To exit transit mode simply insert the Dongle and activate the PIR, you will then be greeted by a message that only plays when exiting transit mode.

## Exit Menu

Here you can exit the settings menu, the Solar Post will continue to loop through each menu option until you decide to exit.

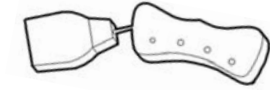
Remove the settings dongle when you reach this option then replace when instructed.

You will hear a beep and the Solar Post will revert to its standard operating state.

Programming the Solar Audio Post couldn't be easier. You will need 3 things;

**Note: Files must be .mp3 format.**

1. 1 audio file (.mp3 format)
2. A Programming Dongle - included
3. The USB stick provided with programming dongle



Please note: If provided USB stick is not available use a USB stick less than 1GB in size if possible, if you have issues uploading your files please first retry with a different USB stick.

### Step 1

Place your audio file on a USB stick.

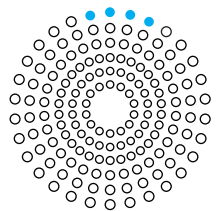
Note: If you have a bespoke post with more than 1 message, the first file you add to your USB stick will be Message 1, the second will be Message 2, and so forth.

### Step 2

Attach your USB stick to the Programming Dongle then select the 'Update Media Content' option from the menu by removing and replacing the dongle (with USB attached) when prompted.

### Step 3

The Solar Post will now tell you it's transferring your file or inform you if there is an issue.



You will be asked to wait until it's finished. This could take a number of minutes depending upon the size and length of file you are transferring.

When finished the Solar Post will inform you and ask you to remove the Dongle. The Solar Post is now ready to use with the updated message. Test the message just to be sure, and enjoy!

# MAINTENANCE

## Battery

Each audio solar post uses 4 rechargeable AA 2900mAH nickel metal hydride batteries which need to be replaced approximately every 2 years.

## Tools

T20H Torque Bit (security bit)  
Cross Head Screwdriver  
5.5mm Spanner

## Procedure

1. Unscrew the 6 security screws from the front panel using the T20H pin torque screwdriver.
2. Pull the front panel forward **slowly**; do not exceed the solar cable.
3. Unplug the solar cable and remove the solar electronics from the post
4. You will need to open the electronics box by removing the 6 cross head screws and nuts.
5. Locate the black battery box inside and remove the small cross head screw from the back.
6. Slide the box cover open.
7. Replace the old batteries with the new. Its a good idea to push a button to ensure the batteries are connected and the audio player is working.
8. Replace cover and screw to secure the battery box.
9. Replace the 6 cross head screws and nuts to seal the electronics.
10. Re-connect the solar panel cable.
11. Replace the 6 screws to secure the front panel in place.
12. Test by pressing a button. We advise checking after replacing batteries that charge is being received by the electronics (you will need a sunny day for this)

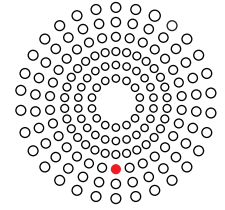
At the end of each message a red light located in the lower half of the grill will blink if the electronics are receiving charge.

## Cleaning

We advise cleaning the solar posts and panels annually. Mild soap and water is best for general cleaning. Rinse with clean water after washing. All surfaces should be cleaned using a soft cloth or sponge, using nothing harsher than natural bristle brushes; do not scour painted surfaces.

## How can you tell if your solar post is charging?

At the end of each message a red light located in the lower half of the grill will blink if the electronics are receiving charge.



# INSTALLATION

## Tall Metal Post

The Tall Metal Post is installed into a solid surface (usually cement) via 4 x M8 fixing bolts through 4 holes available in the stand.

## Short Metal Post

The Short Metal Post is screwed or bolted into a solid surface using 4 fixings through the 4 supplied holes in the base.

## Above Ground

For installation above ground we recommend 4 M8 Rawl Plugs and Bolts (not provided).

Metal base is provided as standard for Tall Metal Audio Posts, or an additional option for Tall Oak Audio Posts.

## SPECIFICATIONS

### Messages

Message storage medium:	64MBit Flash Memory (on board)
Maximum number of messages:	4 files @ 8MB max total size.
Message encoding format:	Mp3
Maximum total message length:	>16 minutes @ 64kbs

Message selection via 2 buttons

### Bitrate (kbs) / Average length of all audio (minutes)

16kbs	67.00
24kbs	43.00
32kbs	30.00
64kbs	16.00
96kbs	11.00
128kbs	8.00
160kbs	6.30
192kbs	5.15
256kbs	4.00
320kbs	3.00

Note: times may vary depending upon the audio complexity, this is only a guide

### Message Output

Playback sample:	Mono
Audio output:	1W into 8ohm speaker
Freq. range:	75Hz-20kHz

### Power

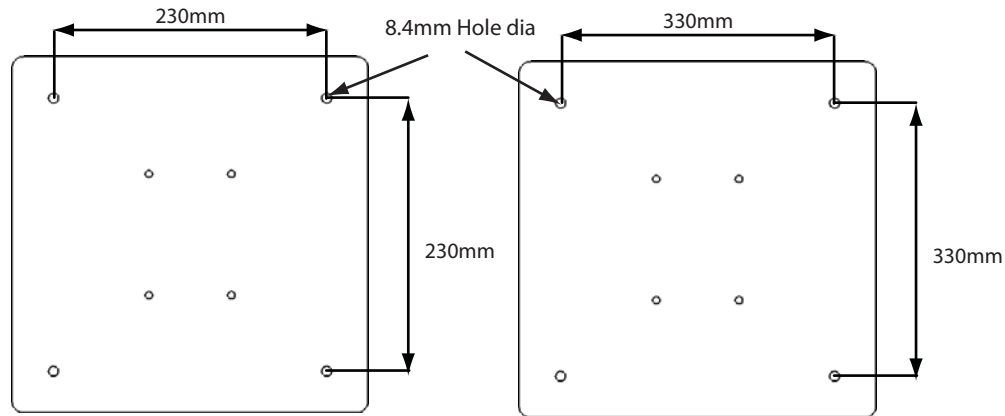
4 built in Solar Panels charging 4 1.2V long life batteries at up to 100mA per hour. (4 x 1.2v 2900mA AA long life batteries.)

### Weight

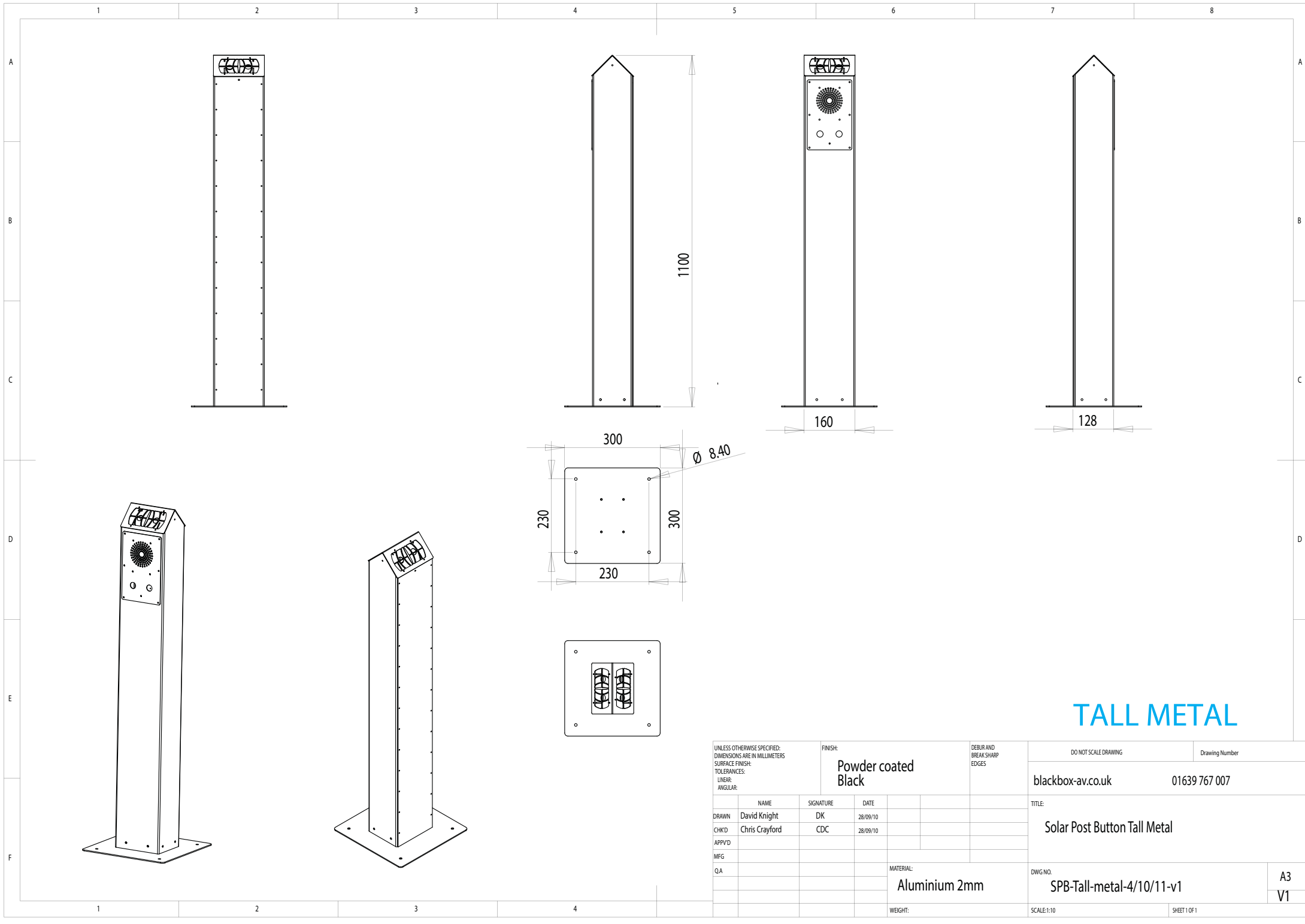
Tall metal boxed 10KG  
Tall oak 60kg

### Tall Metal Base Size

### Tall Oak Base Size



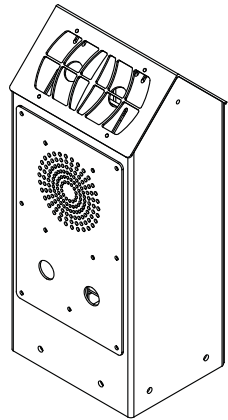
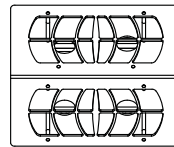
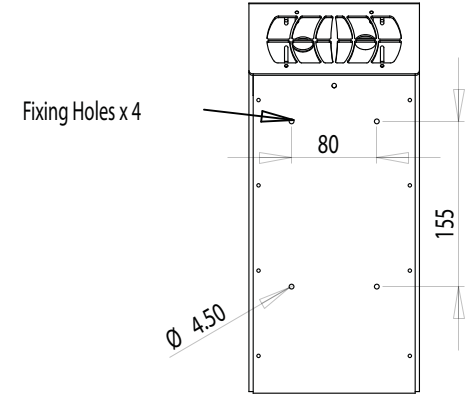
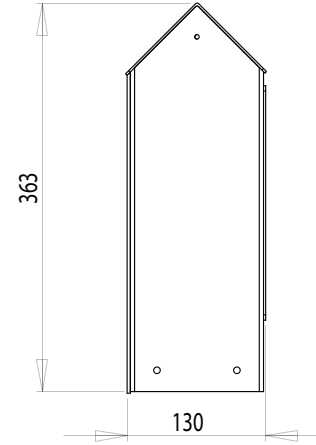
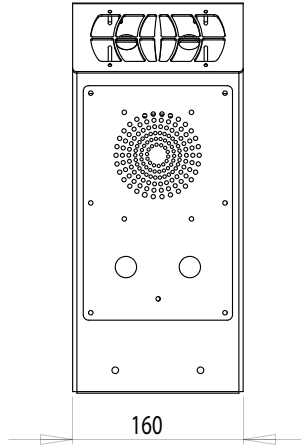
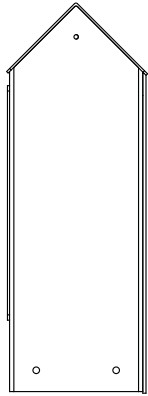
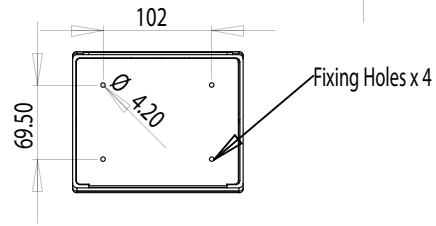
1. Use Base as template and mark the four fixing holes where Post is to be installed.
2. Drill 4 holes the required depth for Rawl Plug insertion.
3. Clean out drilled holes and insert Rawl Plugs.
4. Bolt Post and Base in place.



# TALL METAL

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH: <b>Powder coated Black</b>		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		Drawing Number	
							blackbox-av.co.uk		01639 767 007	
DRAWN			NAME		SIGNATURE		DATE		TITLE:	
CHK'D			David Knight		DK		28/09/10		Solar Post Button Tall Metal	
APPV'D			Chris Crayford		CDC		28/09/10			
MFG										
QA									MATERIAL:	
									Aluminium 2mm	
									DWG NO.	
									SPB-Tall-metal-4/10/11-v1	
									A3	
									V1	
									SCALE:1:10	
									SHEET 1 OF 1	

# SHORT METAL



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