

ASF20051 MLA MINI UNIVERSAL BRACKET

ASSEMBLY INSTRUCTIONS



The MLA Mini Universal Bracket is a multi-purpose assembly for deployment of four MLA Mini modules. It allows accurate adjustment of array angle for any of the methods of use.

Parts Supplied

Due to the versatile nature of the Universal Bracket it is supplied as parts so it can be assembled according to how it is intended to be used.



The parts supplied are as shown in the above picture and comprise the following items;-

1. 1 x Arc Bracket and adjustable carriage assembly
2. 1 x Front Arm
3. 1 x Rear Swing Arm
4. 1 x Flying Pin
5. 1 x Swing Arm mounting bracket
6. 2 x M8 x 16mm countersunk socket head screw
7. 2 x M8 x 35mm button socket head screw
8. 2 x M8 plain washer

Optional items

For pole mount operation the ASF20045 35mm stand adaptor may be fitted. This can be purchased as an accessory and is supplied with the ASF20058 MLA Mini pole mount assembly. It should be fitted to the Universal Bracket with the M12 x 25 hex head screw supplied.

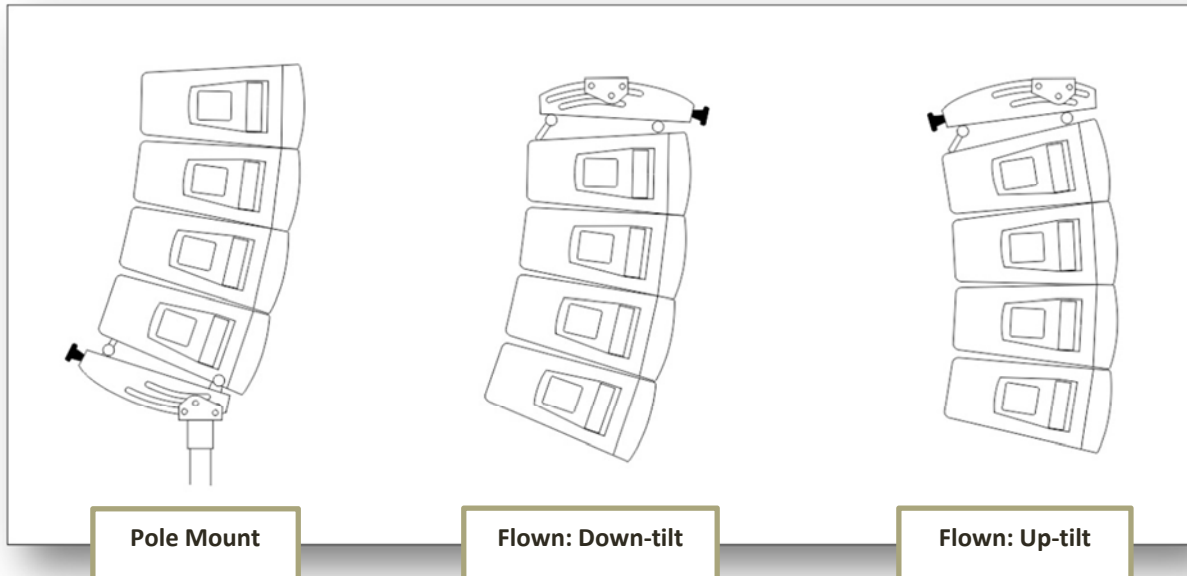
Tools Required

The principal tool required for assembly of the bracket is a 5mm Allen Key used to fit the front arm and the swing arm bracket. For fitting the ASF20045 pole mount adaptor or scaffold clamps, a 19mm (3/4") spanner (wrench) will be required. (Tools are not supplied)

Modes of operation

There are three modes of operation which require the Universal Bracket to be assembled in different way. These are;-

- Pole mounted
- Flown with down-tilt
- Flown with up-tilt



Note that there is only one orientation for pole mounting the MLA Mini. You should not under any circumstances attempt to pole-mount MLA Mini with an up-tilt, this will be unsafe.

Pole Mount

The picture above shows how the bracket should be assembled for pole-mount operation with down-tilt adjustment available. Note that the angle adjustment knob is at the *rear* of the bracket.



First attach the front arm to the two M8 Inserts on the top of the arc bracket using the two M8 x 35mm button head screws and the M8 washers. This must be fitted to the two insets furthest from the angle adjustment knob. Tighten these using the 5mm Allen Key (not supplied). **Note the orientation of the cross arm**, in *all* modes of operation the cross arm must be fitted with the single tabs at each end upwards and the double slot downwards.

Next fit the rear swing arm bracket to the remaining M8 inserts using the two M8 x 16mm Countersunk screws;-



Tighten these with the 5mm Allen key.

Now fit the swing arm into the rear bracket using the flying pin. The swing arm has three holes, one at each end and one in the middle offset from the centre. The middle hole must be used to connect to the bracket with the short length in the hole under the bracket and the longer side uppermost to connect to the MLA Mini;-



Finally attach the ASF20045 pole mount adaptor onto the sliding carriage on the bottom of the universal bracket;-

The M12 x 25mm hex head bolt that fits into the top of the adaptor will need to be carefully inserted through the hole in the carriage from inside the bracket along with the spring and plain washer before being screwed into the adaptor and tightened by holding the bolt stationary with a 19mm (3/4") spanner (wrench) and turning the adaptor.

Flying with Down-tilt

The Universal Bracket is used inverted for flying applications. The front arm must therefore be attached as for pole mounting but the opposite way up. For down-tilt applications it will need to be attached to the end closest to the angle adjustment knob. Note the orientation of the tabs on the front arm. This must remain with the single tabs facing upwards and the double slots facing down.

The rear swing arm for flown applications must be fitted with a flying pin using the hole at the end of the arm as shown to meet the upper rigging point on the rear of the first MLA Mini ;-



Finally a scaffold clamp or similar suspension method can be used as a method of suspending the assembly from the 13mm hole in the sliding carriage. The picture shows the use of a trigger clamp (not supplied) which is recommended by Martin Audio for applications requiring array suspension from 50mm (2") tube or truss as it allows the array to be safely hung and will support the weight of the array whilst the clamp is tightened in place. All necessary safety items such as anti-shake washers or locking nuts must be used with whatever suspension method is employed.

Flying with up-tilt

The final option is for flown applications with up-tilt capability. This uses exactly the same arrangement as for down-tilt but with the front cross arm fitted to the opposite and furthest from the angle adjustment knob;-

