

**PS3: Suspended aluminium 'ladders' with hook-over poster holders**

**COMPONENT LIST - SUSPENDED LADDER**

Post with 2 channels (opposite) anodised aluminium, satin finish	2 (standard: 50mm diameter)
Push-in End cap for posts	4
'Rung' with lock at each end (for lengths, see below) (25mm anodised aluminium, satin finish)	2 down: 4; 3 down: 6; 4 down: 8; 5 down: 10
A4 portrait hook-on poster holder	Calculate: number across x number down
Wires with ceiling & floor fixings	2
Wire-fix boss (to attach post to wire)	2 per post
'Toggle' (small flat plate with hole) with machine screw	2 per post

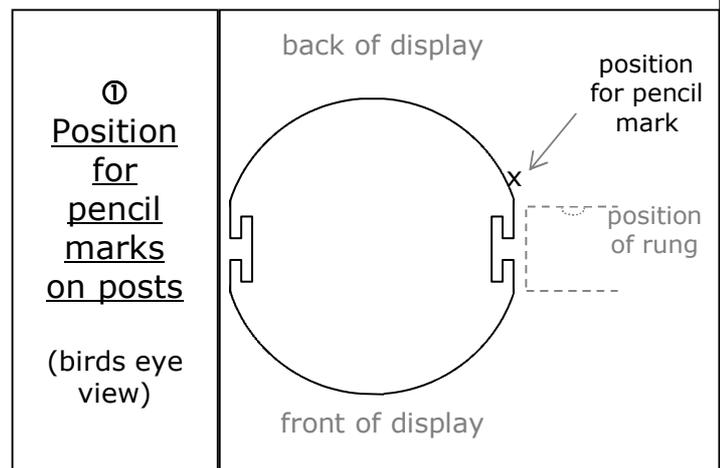
**'RUNG' LENGTHS AND OVERALL DISPLAY WIDTHS**

No of A4 portrait poster holders across	2	3	4	5	6	7	8
Length of rung (excluding locks)	440mm	660mm	880mm	1100mm	1320mm	1540mm	1760mm
Overall width of STANDARD display	532mm	752mm	972mm	1192mm	1412mm	1632mm	1852mm

**ASSEMBLE LADDER FRAME**

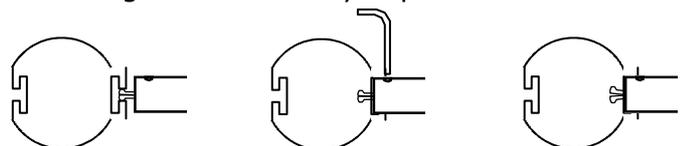
*NOTE: Two people are required to assemble and fit this display.*

1. Measure desired position of each rung on posts and mark with a pencil (see page 3 for recommended spacings)
2. Lay first post horizontally on a flat surface with pencil marks uppermost and fix aluminium rungs to this in all marked positions, with locks to the back (side with pencil marks). (Centre line of rung should line up with pencil mark).
3. Lay second post horizontally on a flat surface. Position first post so that remaining locks are inserted into channel in second post and attached rungs approximately line up with pencil marks.
4. Tighten locks to fix rungs securely into second post, adjusting position as necessary so that rungs line up with pencil marks.
5. Push end caps into the ends of the posts.



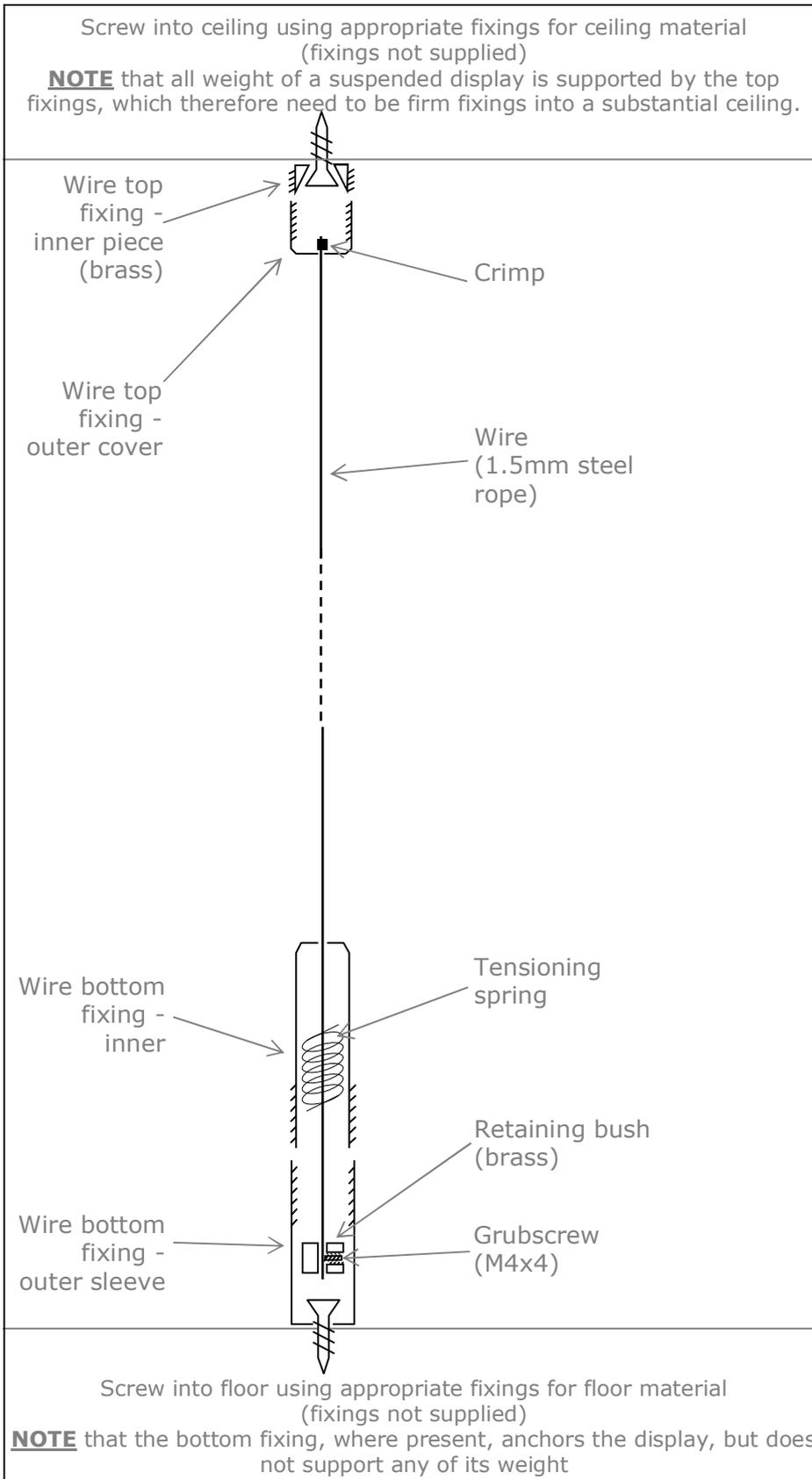
**FIX RUNG TO POST**

1. Ensure that parts of lock in end of rung are 'together'
2. Position lock in post so that rung is in desired position (line up centre of rung with pencil mark on post)
3. Use allen key to tighten lock so that lock opens and rung is held securely in place



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**FIXING INSTRUCTIONS - SUSPENDED WIRES**



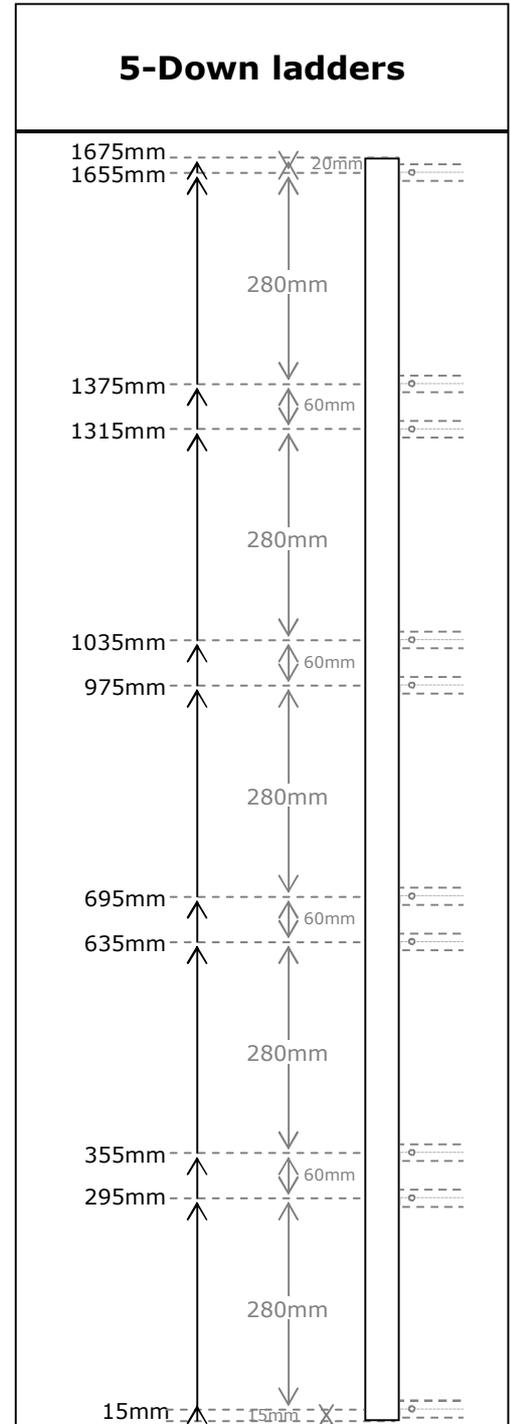
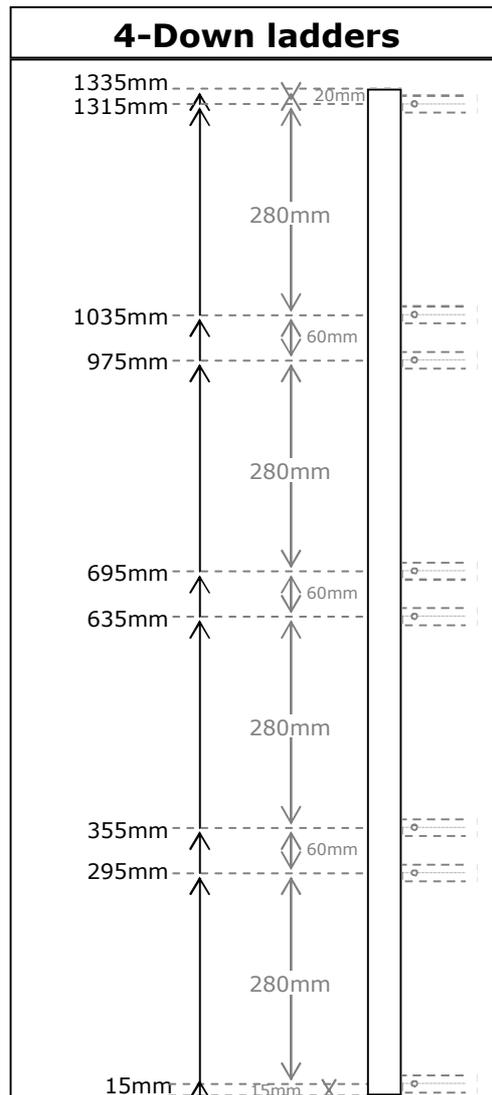
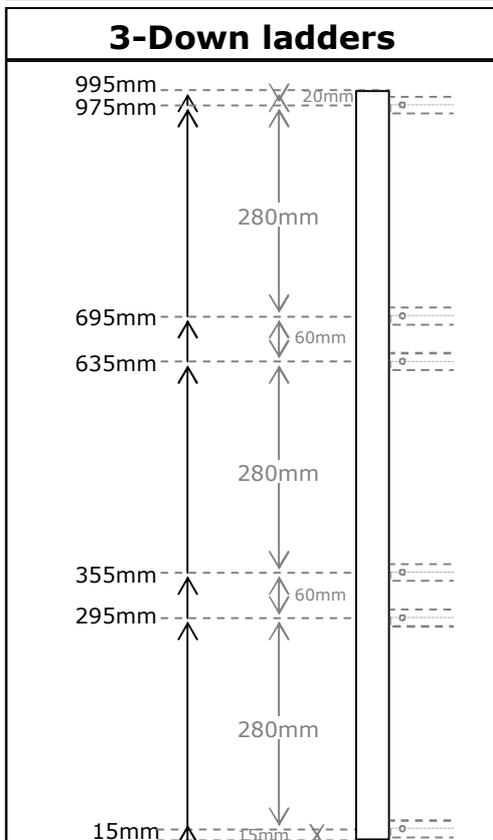
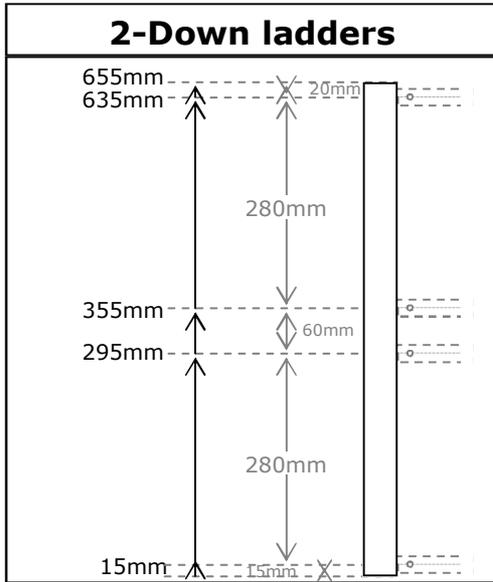
1. Mark the required positions of the wire top fixings on the ceiling.  
See page 3 for wire centres required for standard sizes of suspended 'ladder' displays.
2. Use a plumb line to mark the bottom fixings vertically below the top fixings, then check that these are the same distance apart as the ceiling positions.

***For each wire:***

3. Fix the brass inner top fixing to the ceiling in its marked position using appropriate fixings (not supplied).
4. Screw the outer top fixing, with the crimped end of the cable inside, on to the inner top fixing.
5. Unscrew the bottom fixing and screw the outer sleeve to the floor using an appropriate fixing (not supplied).
6. Loosen the brass bush at the bottom of the wire by partly unscrewing the grub screw (using the allen key supplied), so that the bush can slide up the wire.
7. Pull the wire taut, then position the brass bush so that the top of the bush is in line with the top of the outer sleeve of the wire bottom fixing (screwed to the floor).
8. (Repeat steps 3 - 7 until all wires have been fitted).

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**SPACINGS FOR 'RUNGS' OF SUSPENDED LADDER DISPLAYS**



**WIRE CENTRES FOR SUSPENDED LADDER DISPLAYS**

No of A4 portrait poster holders across	2	3	4	5	6	7	8
Overall width of 'ladder' frame	532mm	752mm	972mm	1192mm	1412mm	1632mm	1852mm
Centres for wires	552mm	772mm	992mm	1212mm	1432mm	1652mm	1872mm

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### FIX LADDER FRAME TO SUSPENDED WIRES

1. Use the allen key provided to remove the grub screws from the narrower slot in each wire-fix support stud, so that the wires will be able to slide into these.
2. Loosen the other grub screws in the support studs, so that the brass bosses can be removed.
3. Fix two brass bosses to the outside of each post using the toggles and screws supplied - we recommend that these are placed 100mm from the top and from the bottom of the posts.
4. Place the support studs in position over the brass bosses, with the narrow slots (designed to fit on to the wires) running vertically, then re-tighten the grub screws to hold the studs in position.
5. Offer up the aluminium frame, holding roughly in the required position on the wires.
6. Slide one wire into the narrow slots in the support studs and fix in position by replacing the grub screw and tightening against the wire.
7. Use a spirit level to ensure that the frame is horizontal, then fix the other side of the frame in position (on the other wire) in the same way.
8. Finally hook poster holders over ladder 'rungs'

