


# INSTALLATION INSTRUCTIONS

## SWING FRAME



### ATTACH TO ACTION OR FUN FORT

PARTS	DESCRIPTION	NOTES	QTY	CHECK
Post RHS	90x90mm 2700mm long <u>OR</u> 90x90mm 3000mm long	1200mm elevation height. Holes in one end. 1500mm elevation height.	1	
Top Beam RHS	90x90mm 1800mm long <u>OR</u> 90x90mm 3000mm long.	Single swing. Holes both ends. Double swing. Holes both ends.	1	
Fort Timber	90x90mm 1200mm long	Fit to top of side panel.	1	
Brace Plates.	400x300mm triangular.	Fit both sides of Top Beam post end.	2	
Attach Plate.	480x350mm triangular.	Fit under Top Beam attach to fort.	1	
<b>Fixing</b>				
Swing hooks	Threaded shaft with eyelet.	2 for Single. 4 for Double.	2 or 4	
Bolts	110mm long. Nylock nuts. 	Bolt Brace Plate to Post and Top Beam. Bolt Attach Plate to Fort Timber. Bolt Attach Plate to Top Beam.	4 2 1	
Bolts	210mm long. No nuts.	Bolt Fort Timber to Fort.	2	
Bolts	200mm long. Nylock nut.	Bolt Top Beam to Fort Timber.	1	

1. Select an appropriate area of flat stable ground for installation, with 2.0m clear space from solid objects to ensure safe use. Additionally 3.5m clearance is required in front of and behind swings.
2. Mark a hole position on the ground, square from the centre of a preferred Fort side – out either 3.0m for double swing frame or 1.8m for single swing frame. Dig a 300mm diameter hole to a minimum depth of 600mm into soft or stiff clay.
3. On the same Fort Side, use a 210mm bolt to connect through the Fort Timber into the top of a Fort Post. Repeat on the other end. Fit and tighten Barrel Nuts.
4. Fit the Attach Plate to the Fort Timber using 2 x 110mm bolts. Bolts slide in from the bottom.
5. Place the Post in the hole and rest the Top Beam on the Attach Plate at one end and the top of the Post the other. Using a level on the top beam, mark the required finished post height.
6. Cut the post to length if required, such that the top of the Post supports the Top Beam level, whilst the bottom of the Post is between 50mm and 250mm from the bottom of the hole.
7. Fit Brace Plates either side of the Top Beam and the Post using 4 x 110mm Bolts.
8. Fix the Top Beam to the Attach Plate using 1 x 110mm Bolt on the front and 1 x 200mm Bolt on the rear.
9. Tension all nuts on Bolts.
10. Using 20mpa strength concrete with 20mm aggregate and 100mm slump, fill the post hole to ground level whilst ensuring the Post is vertical and the Top Beam is level. Allow the concrete to cure for 72 hours before using the swing. (Concrete recipe in mixing sequence – 1 half part water, 1 part cement, 2 parts sand, 4 parts 20mm aggregate. Add water to achieve desired consistence whilst mixing for 2 minutes.)

#### Important safety notes:

- Suitable under surfacing is required. Regularly check depth and rake to avoid compaction.
- Check all nuts and bolts twice monthly for tightness and tighten as required.
- Check all hardware and equipment for sharp edges twice monthly. Repair as necessary.
- Check swing seats, hooks, ropes and chains monthly for evidence of deterioration. Replace as required.
- Adult supervision and guidance is required for children using this product.