

# **BOX 'N' BOLT**

## **CONSTRUCTIONS**

**Build. Play. Imagine.**

[www.boxnbolt.com.au](http://www.boxnbolt.com.au)



### **Product Information**

**Tunnel 'n' Tower Construction Kits**

Document V1.3

Welcome to

# **BOX 'N' BOLT CONSTRUCTIONS**

Tunnel 'n' Tower Construction Kits are a unique modular building system that will have children building, playing and learning all at the same time.

This instruction manual is a guide to getting started. Once the basic concepts are understood, children can let their natural creativity flow, so that they can...

**Build. Play. Imagine.**

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Tunnel 'n' Tower Construction Kits  
are proudly designed and manufactured  
in Australia.

## **Benefits for Children**

Tunnel 'n' Tower Construction Kits help encourage:

- Fine and gross motor skill development
- Problem solving
- Spatial awareness
- Imaginative play and
- Social interaction

And perhaps more importantly, they're really good fun!

## **Safety**

Adult supervision is recommended when children are using the construction kits, particularly with younger children. When using the kits, consider the following:

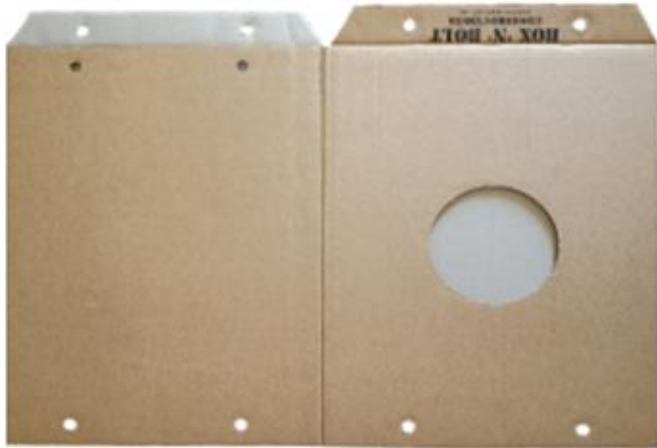
- The cut edges of cardboard parts may pose a risk of papercuts.
- Kit components may still have some small cardboard discs (20mm) in the bolt holes when first unpacked. These should be pushed out and disposed of as they may present a choking hazard for very young children.
- Structures are strongest when all components are firmly bolted together. Complete the full construction before beginning to play.
- Tunnels are designed to be crawled through, not on top of. Climbing on top of the structures may cause partial collapse, resulting in damage to the cardboard components.
- Cardboard parts should be kept dry and away from heat sources.

## **Product Care Instructions**

- Pack components away flat when not in use.
- If cardboard components need to be sanitised, use a light misting spray of a disinfectant solution such as Glen-20.
- To sanitise bolts, spray or dip a disinfectant solution. Bolts are made from UV stabilised plastic and may be dried in the sun.

## Kit Components

Each kit contains 7 different cardboard components, each of which can be connected to any other to build a variety of different structures – cubbies, forts, castles etc.



Tall Tunnel



Hinged Door



Square Tower



Unhinged Door



Triangular Tower



Triangular Door



Panel Connector / Hinge



Nut & Bolt

## Kit Types

Kits come in two sizes, **Starter** and **Standard**. Kits contain the following components. When you first receive your kit, check to see that you have the correct number of all parts.

	Starter Kit	Standard Kit
Tall Tunnel	4	8
Square Tower	2	4
Triangular Tower	2	4
Hinged Door	4	8
Unhinged Door	4	8
Triangular Door	4	8
Panel Connector	4	8
Nuts and Bolts	36	72

## Building Instructions

Start your first construction by connecting two Tall Tunnels together. Stand the tunnels on their sides and line up the holes on the tabbed end of one tunnel to those on the non-tabbed end of the other. Push a bolt through each hole from the inside and thread the nuts on from the outside. Once this first connection is made, the structure is self-supporting.

Next, connect more Tall tunnels to create a base for your construction.



## Step 1: Build the Base

The base is the network of tunnels that children can crawl through. With a starter kit, you can create three or four tunnel bases. With a standard kit you can create a base with up to eight tunnels.

To make a three-tunnel base, connect the tabbed end of one box to the non-tabbed ends of two others. Where the two non-tabbed box edges meet, use a Panel Connector to join them.



A three-tunnel base with a square opening can also be made using an Unhinged Door to connect the tabbed ends of two of the Tall Tunnels.



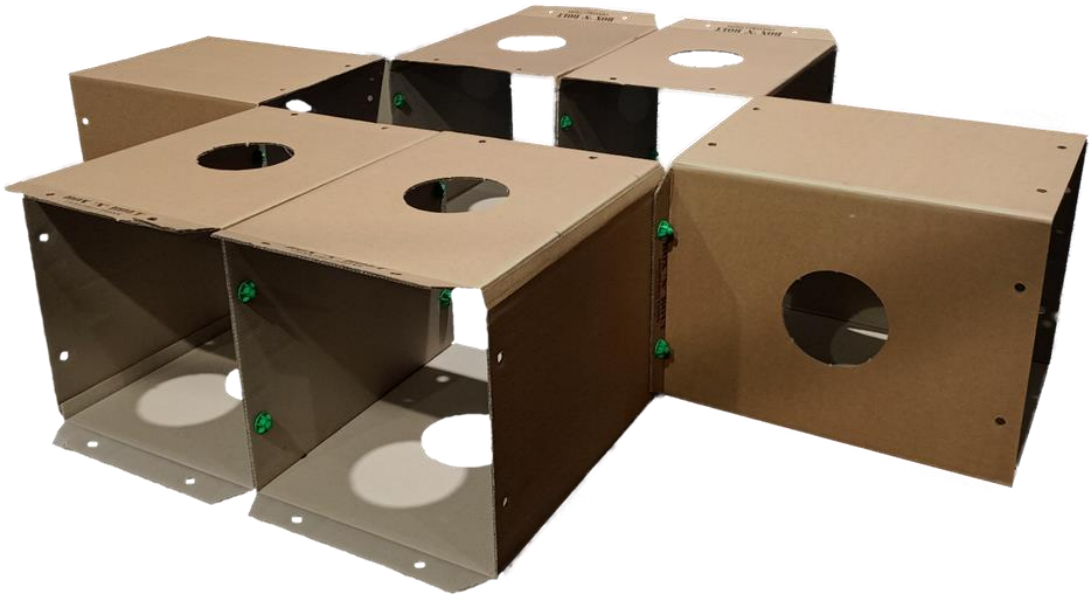
To make a four-tunnel base, connect the tabbed ends of two Tall Tunnels with the non-tabbed ends of two others.



To make a six tunnel (hexagonal) base, Connect the ends of 6 Tall Tunnels, alternating between tabbed and non-tabbed ends.



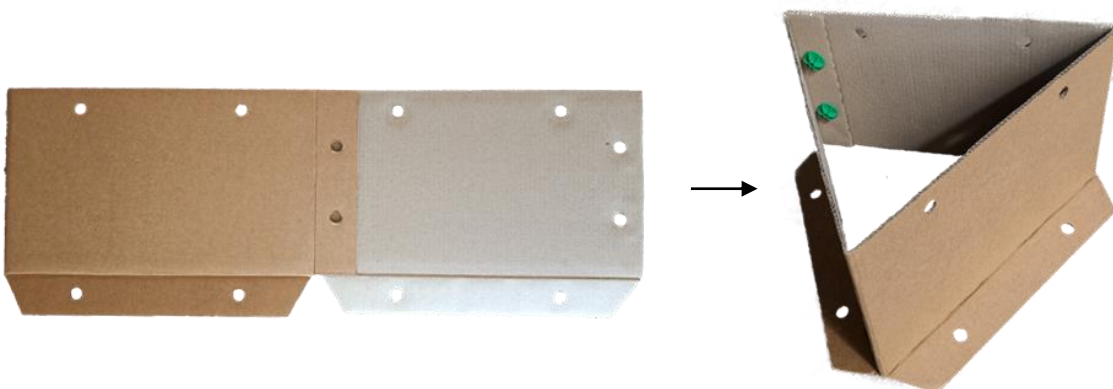
To make a six-tunnel base with two pairs of side by side tunnels, set two pairs of Tall Tunnels side by side with the view holes facing up, and connect each pair with four bolts. Face the non-tabbed ends of the pair inwards, then use two more Tall Tunnels, tabs inwards, to support the ends.



## Step 2: Build the Towers

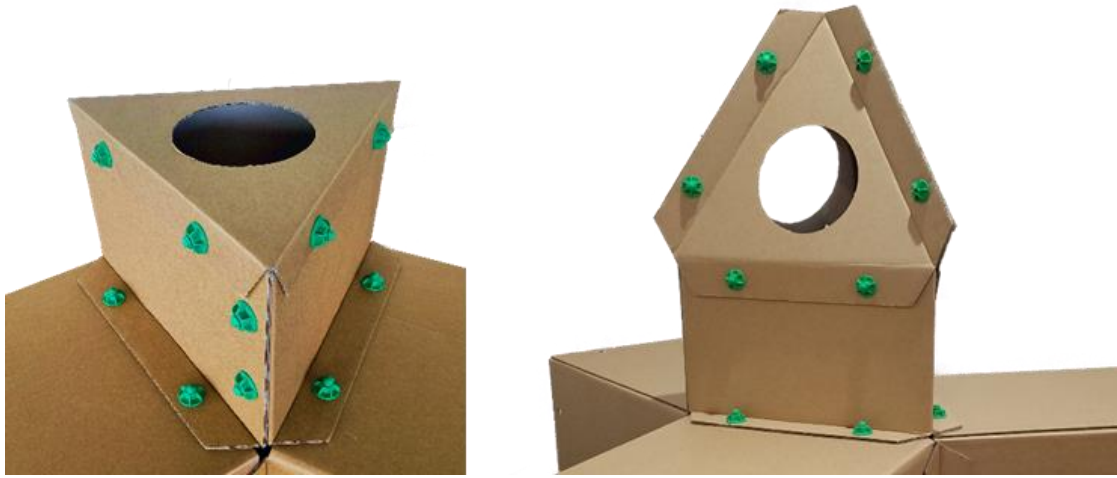
Create a tower above the openings in the base. The walls of towers are created with triangular tower and square tower components, or a combination of these. Prior to using tower components, fold the tabs inwards first, then outwards. Repeat this a few times so that the tabs move more freely.

Triangular Tower components come as a flat strip. Start by folding the strip around to make a triangle, with the tab on the inside, then bolt it together.

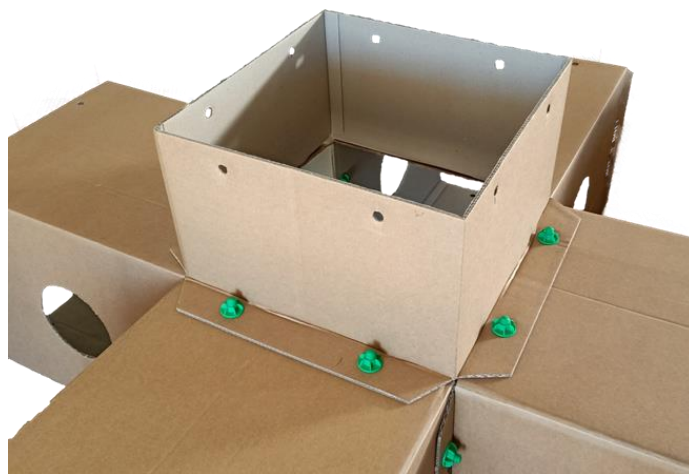




Next, place it on top of a three-tunnel base, and bolt it down. Lastly, add a tower top built from triangular doors. Two examples are shown below.



Square tower components simply need to be opened out into a square shape and bolted down.



Next, add a tower top. Add a Hinged Door panel to create a trapdoor. For a pyramid top, use four triangular doors.



### Step 3: Add Doors

Doors can be bolted to any opening. Doors can be made using:

- A Panel Connector and an Unhinged Door
- A Hinged Door panel

If connected to the top holes of a tall tunnel, a door will naturally fall to close the opening. Doors can also be connected to the sides of tunnels.



Unhinged Doors can be used by bolting them to one side of a tabbed end. If bolted to both sides, they can be used to block off the end of a tunnel.



## Step 4: Expand Your Model

If you've created the basic model, and still have parts left over, why not extend the tunnels? To make longer tunnels, connect Tall Tunnels end to end.

If connecting the tabbed ends, fold the tabs out to the sides and bolt them together.

If connecting non-tabbed ends together, use a panel connector on each side where the boxes meet. A panel connector can be placed across the top for a stronger connection.

## Over to You

The pages which follow show a few of the designs we've come up with. Start by trying to build some of those. However, keep in mind that these instructions are only meant to be a guide.

Every time we've let a group of children loose with one of our kits, they've come up with something we hadn't thought of. So, let their natural creativity flow - make new designs, new towers, new connections. Let them...

**Build. Play. Imagine.**

For more inspiration, visit us online at

**[www.boxnbolt.com.au](http://www.boxnbolt.com.au)**

Check out the photographs and videos  
on our Gallery pages

or

find us on



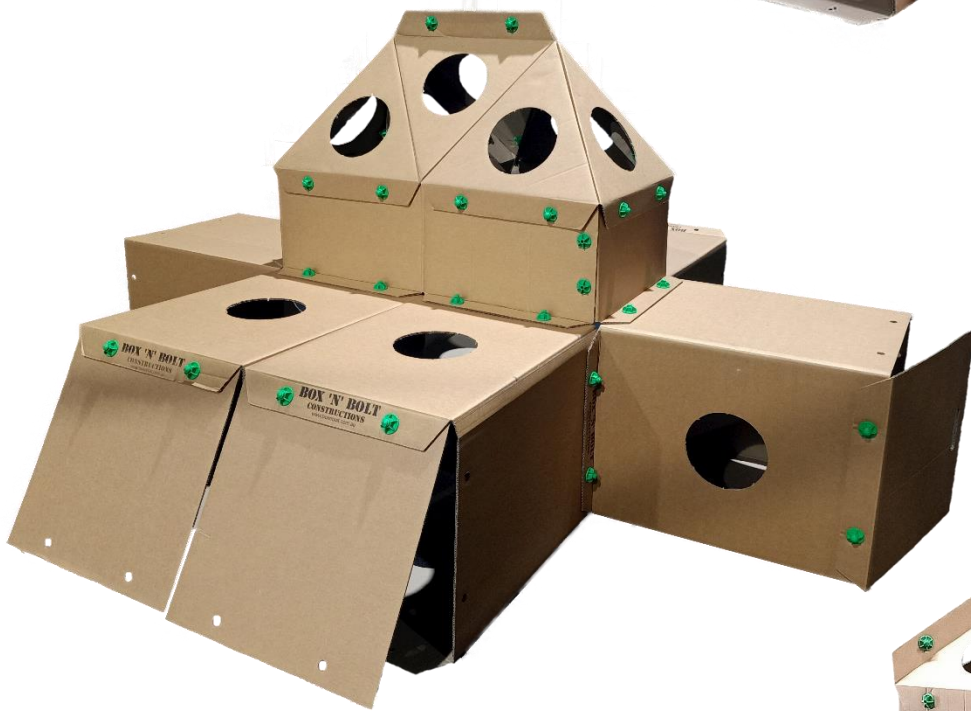
## Starter Kit Builds



# Standard Kit Builds



## More Standard Kit Builds



## How to Order

To order additional kits, or replacement parts, visit us online at

**[www.boxnbolt.com.au](http://www.boxnbolt.com.au)**

Starter Kits retail for \$99.90 + Delivery  
Standard Kits retail for \$199.90 + Delivery

Delivery is set at a flat rate of  
\$30 for Starter Kits and \$60 for Standard Kits,  
to your door, anywhere in Australia.

Payment options include:

- PayPal
- Credit Card (through PayPal)
- AfterPay

## Purchase Orders

For organisations using purchase orders, please download the order form from the Education section of our website. Completed order forms can be emailed to [sales@boxbolt.com.au](mailto:sales@boxbolt.com.au).

An invoice will be generated and sent via reply email. Invoice terms are net 14 days.

## Contact Details

Box 'n' Bolt Constructions is a project of



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