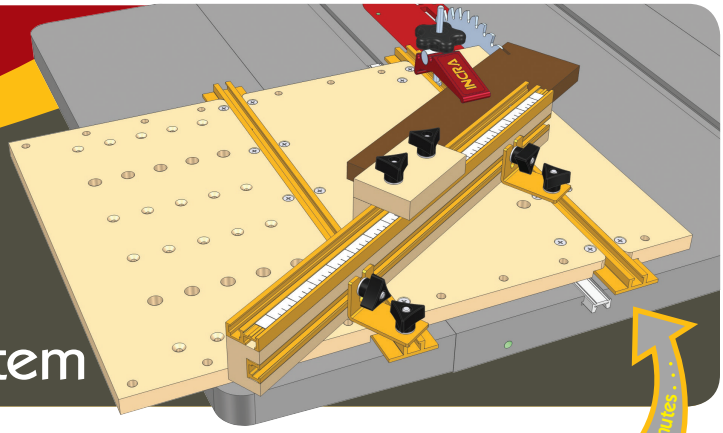
INCRA® Build-It System Starter Kit

NEW

BUILD it SYSTEM

MADE IN THE USA

Modular
Jig & Fixture Platform System



Just Connect the Parts:

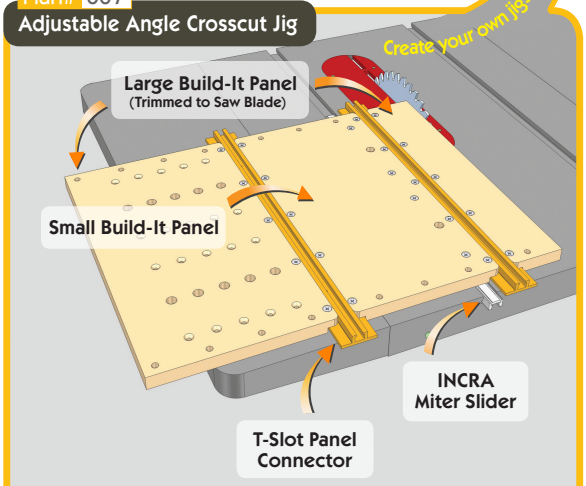
Your new INCRA Build-It System Starter Kit provides all of the Build-It System components you'll need to produce any of the 5 different beneficial jigs shown here. This highly versatile collection of Jig and Fixture "building blocks", along with the included plans, will change the way you approach these and many other jig designs, making it possible to produce in minutes what used to take hours or even days.

The Build-It System begins with INCRA's Miter Slider adjustable aluminum runners. With hundreds of thousands of units already in circulation, these tried and true jig and fixture runners have become a workshop staple for the production of sliding and fixed base jigs.

But it's the NEW INCRA Build-It Panels and T-Slot Panel Connectors that put the punch in this system. The Build-It Panels are pre-cut and pre-drilled to instantly accept all of the components of the system. You can add a Miter Slider in seconds and it's automatically square to your saw blade with no tedious measuring or drilling required, then mount a fence in moments using the counterbored mounting holes. The "glue" that holds everything together is INCRA's innovative NEW T-Slot Panel Connector. These specially designed aluminum components serve to simultaneously interconnect the panels and provide a rock solid T-Slot for adding and holding jig accessories, fences, stops and Build-It Clamps.

With INCRA's NEW Build-It Modular Jig & Fixture Platform System you just connect the parts with a screwdriver and the included fasteners. The possibilities are endless!

Plan# 007
Adjustable Angle Crosscut Jig

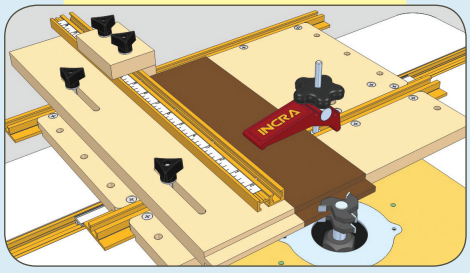


Make these 5 jigs and many more with your NEW Build-It System Starter Kit:

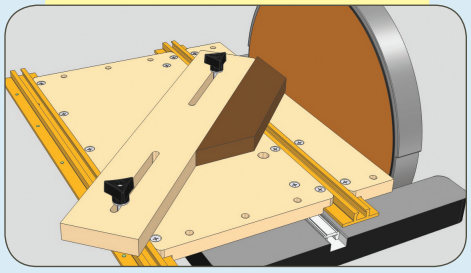
Build-It System Starter Kit
Includes:

- **1** - Large Build-It Panel
- **1** - Small Build-It Panel
- **2** - 18" T-Slot Panel Connectors
- **1** - 18" Miter Slider
- **1** - Build-It Clamp
- **1** pr. - Build-It Brackets
- **1** set of 8 - Build-It Knobs
- **1** - 18" T-Track Regular
- **1** - 18" T-Track Plus
- **5** - Free Jig Plans

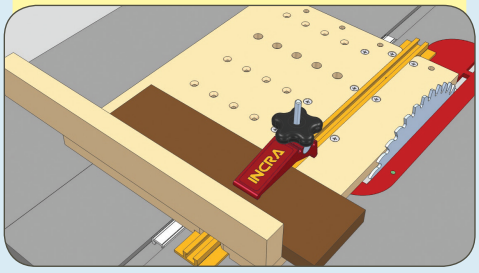
Coping Sled Plan # 003



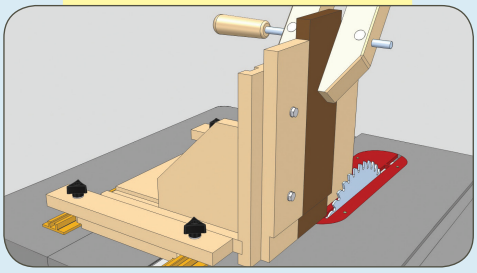
Disc Sander Jig Plan # 004



Shooter Board Squaring Jig Plan # 005



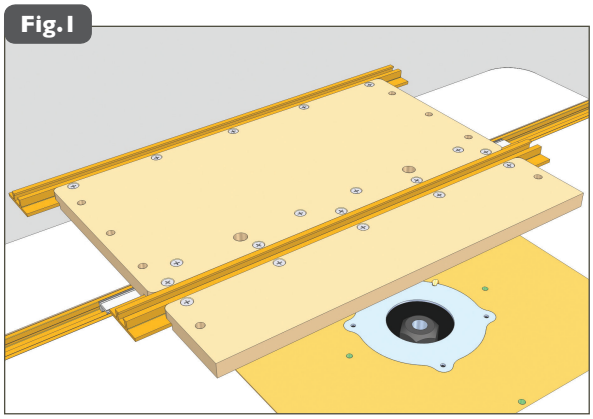
Tenoning Jig Plan # 006



* Free plans for these and other jigs included with every Starter Kit or download free at **www.incra.com**

Coping Sled

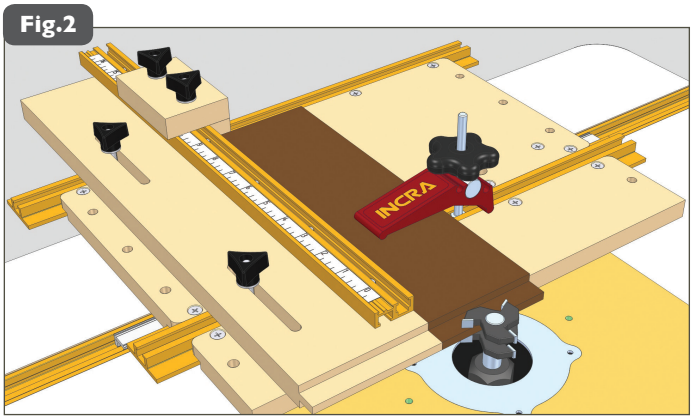
Fig.1



Build-It Platform Components Required:

- 2 Small Build-It Panels or 1 Small & 1 Large
- 1 Miter Slider
- 2 T-Slot Panel Connectors

Fig.2



Just add:

- 18" T-Track Plus
- Build-It Knobs
- Build-It Clamp

It can be tricky trying to make the end grain coping cuts on the rails of a frame and panel door without this handy router table jig. During assembly the end of the backing board is aligned with the bearing on your coping cutter. Then, just position the end of your rail flush with the end of the backer board for a perfect tearout-free coping cut. Add the T-Track Plus with a user made stop to make cutting the opposite end of the first piece and any subsequent pieces of equal length a simple matter of clamp and cut. The Build-It Clamp is required for this type of cut so don't forget to pick one up from your local Incra dealer.

Add a Miter Slider and (2) T-Slot Panel Connectors to a small Build-It Panel and place in the miter slot at your router table. Adjust the Miter Slider to fit your slot. Cut a piece from another Build-It Panel to fill the gap between the existing assembly and your router collet. You'll want this piece to be about 1" narrower than the distance between the T-Slot Panel Connector and the 1/2" shank of the cutter. Cut 3/4" material for the fence to 4" x 18", then cut the (2) 5/16" wide slots as shown. (The slotted holes will permit support for angled work but you can simply drill (2) 5/16" holes spaced 8-1/2" apart if you are only interested in a 90 degree fence position.) Attach the fence with Build-It Knobs and 1/4-20 x 1-1/2" hex bolts with washers then add the 18" T-Track Plus. The T-Track should be offset from the business end of the fence by 2" to provide safe cutter clearance. For most coping work, the fence should be adjusted square to the edge of the panels with the end just touching the cutter's bearing guide. ■

Detail 3A

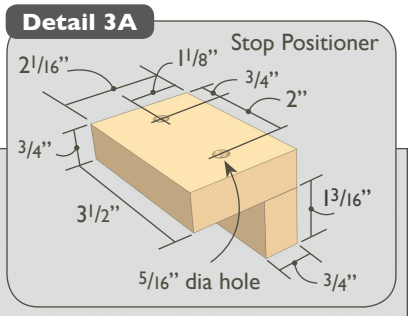
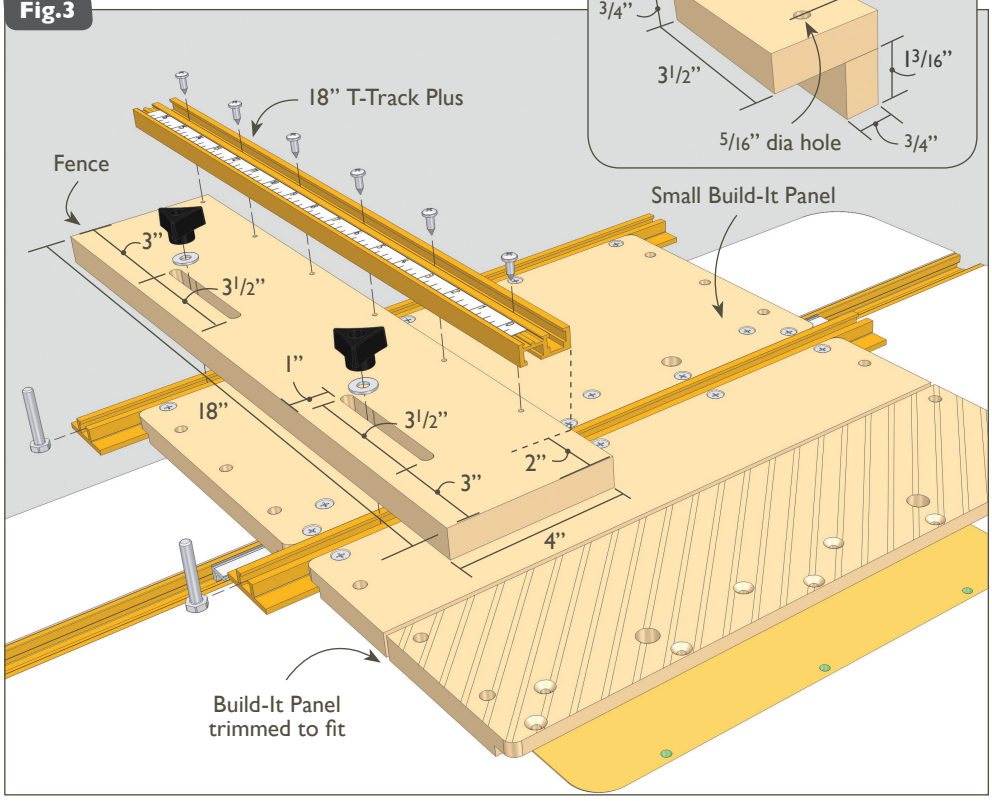


Fig.3



Disc Sander Jig

Fig.1

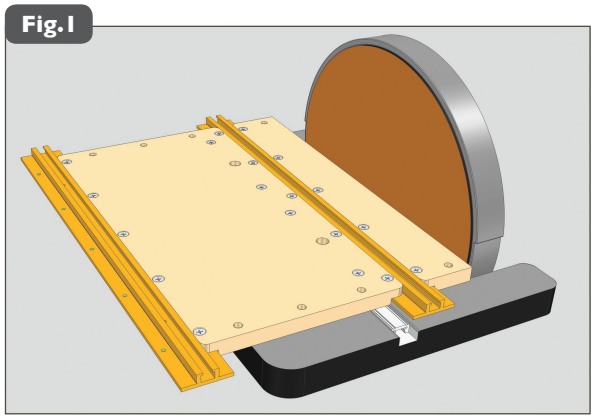
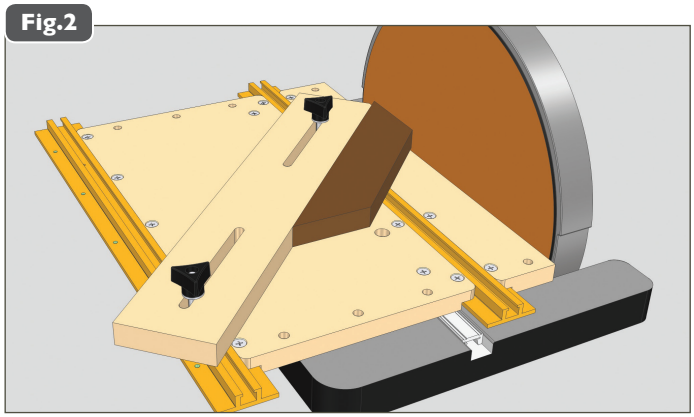


Fig.2



Build-It Platform Components Required:

- 2 Small Build-It Panels or 1 Small & 1 Large
- 1 Miter Slider
- 2 T-Slot Panel Connectors

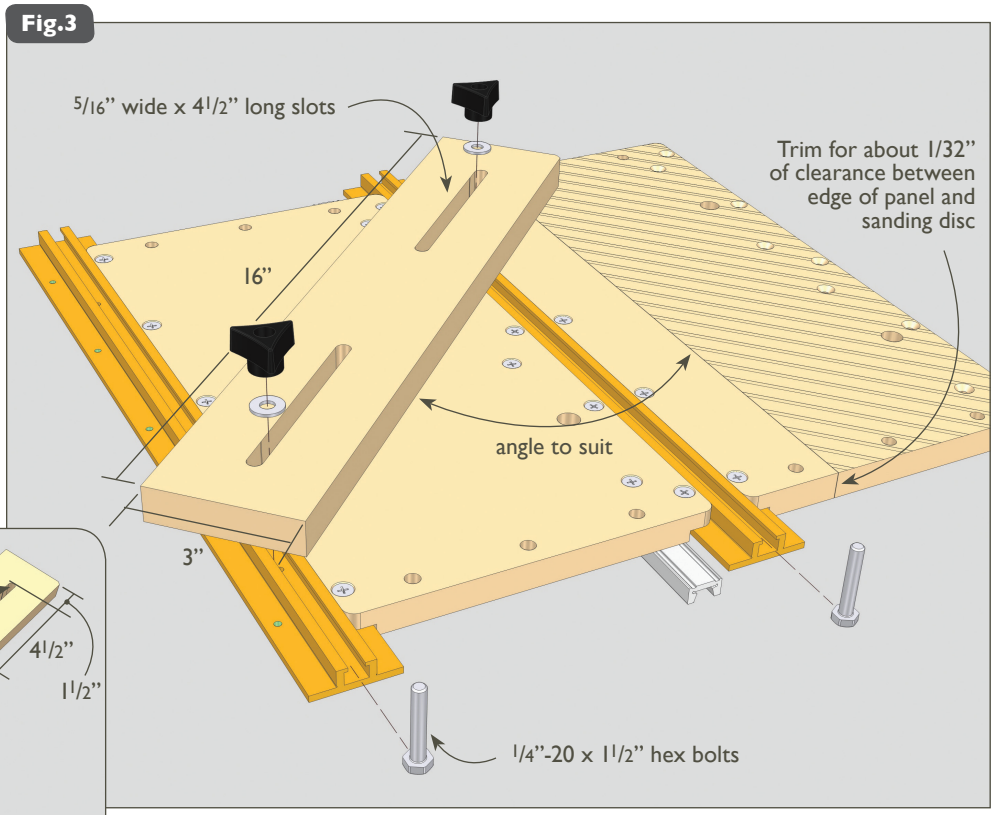
Just add:

- Build-It Knobs

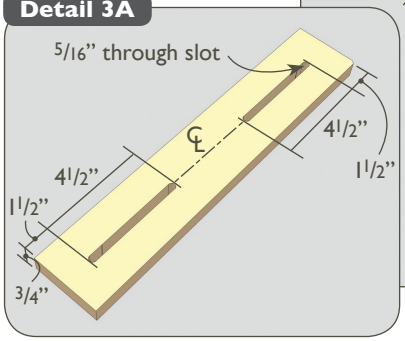
Sanding end grain can be a chore. It's difficult enough just because it's the hardest part of the board to remove saw marks from. Add to that the small surface area and you run into problems keeping the surface square and flat as you sand. This little sanding jig makes handling pieces small and large a snap, taking advantage of the power sanding capabilities of a disc sander while providing support for the workpiece. It can be used as a slider, allowing you to maintain even wear across the face of the sanding disc. If your pieces are really small, you can lock the Miter Slider in place and just slide your work piece down the fence to the sanding disc.

Add a Miter Slider and (2) T-Slot Panel Connectors to a small Build-It Panel and place in the miter slot at your disc sander. Adjust the Miter Slider to fit your slot. Cut a piece from another Build-It Panel to fill the gap between the existing assembly and your sanding disc. Cut the slots in the fence as shown then attach with (2) 1/4-20 x 1-1/2" hex bolts with washers and Build-It Knobs. The slotted holes permit adjustment to almost any angle. **Caution: If you have a small side table on your disc sander, you should only use this jig with the Miter Slider "locked" in the slot to create a stationary jig.**

Fig.3

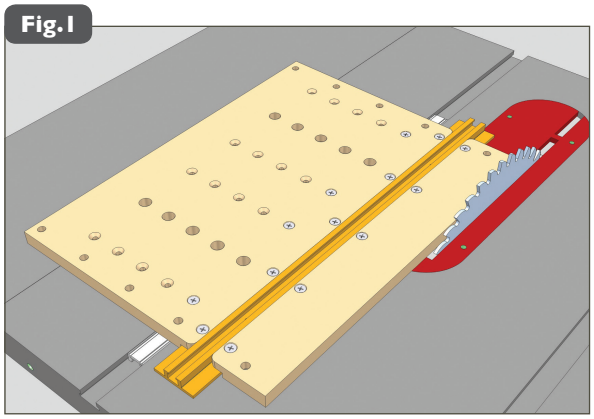


Detail 3A



Shooter Board Squaring Jig

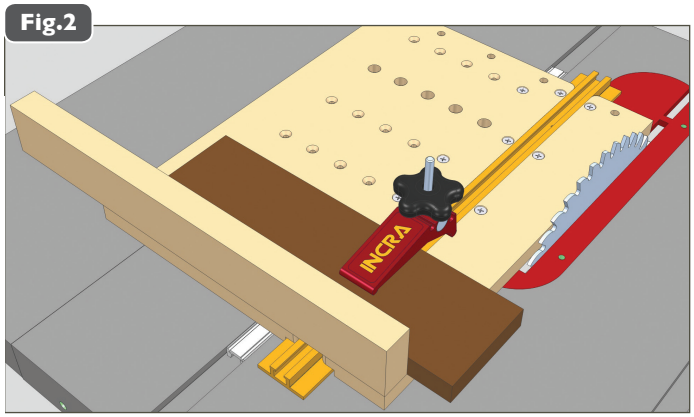
Fig.1



Build-It Platform Components Required:

- 1 Large Build-It Panel
- 1 Miter Slider
- 1 T-Slot Panel Connector

Fig.2



Just add:

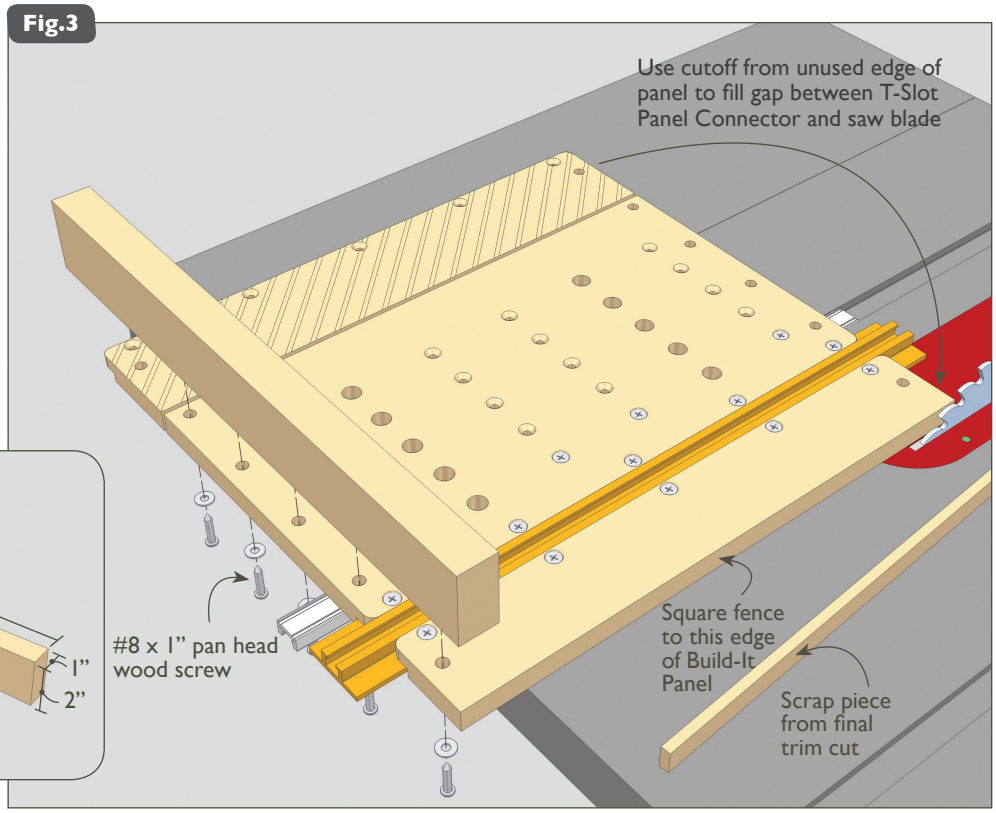
- Build-It Clamp

Sometimes the simplest jig designs provide the best solutions to woodshop cutting situations. Take this simple shooter board styled squaring jig. While it doesn't include the longer fence and stop positioning capabilities of the bridged crosscut box, it does provide a quick and sure means of squaring the end of your workpiece in preparation for subsequent cutting operations. A similar jig made with the blade tilted to 45 degrees would be a great asset for mitered box making.

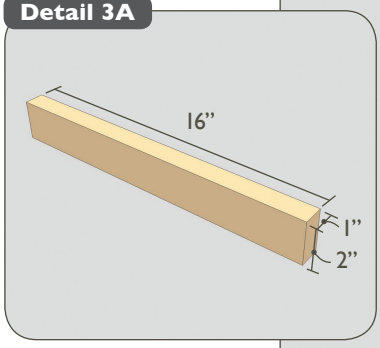
Start by adding a Miter Slider to the line of mounting holes closest to the edge of a large Built-It Panel and adjust for a good fit in your table saw's miter slot. Add a T-Slot Panel Connector to the edge nearest the Miter Slider. With the Build-It assembly in your miter slot, measure the distance between the T-Slot Panel Connector and the blade. Flip the assembly upside down and cut a section off the UNUSED edge of the Build-It Panel that is about 1/4" wider than your measurement. Place the Build-It assembly back in your miter slot and attach the cutoff to the T-Slot Panel Connector. Now run the assembly through the saw to trim the jig to the blade. Using #8 x 1" pan head wood screws with washers, attach a fence to the trailing edge of the Build-It Panel. Square the fence to the cut edge nearest the blade before tightening the fasteners.

Don't forget the Build-It Clamp for safe and secure cutting.

Fig.3



Detail 3A



Tenoning Jig

Fig.1

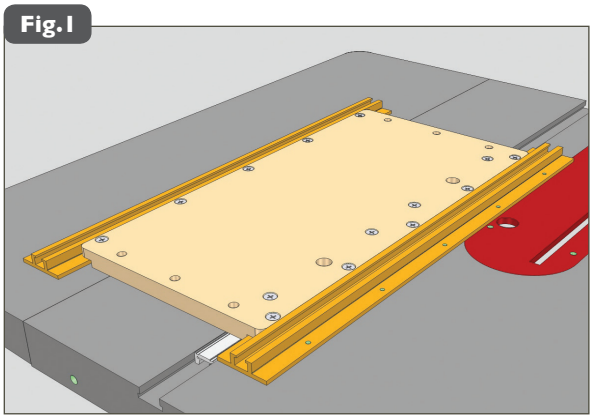
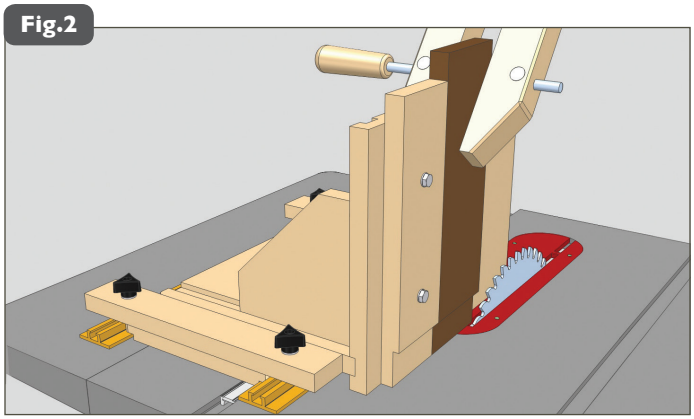


Fig.2



Build-It Platform Components Required:

- 1 Small Build-It Panel
- 1 Miter Slider
- 2 T-Slot Panel Connectors

Just add:

- Build-It Knobs

A tenoning jig can be an extremely valuable tool at the table saw. Not only does it provide a carrier for narrow pieces when tenoning, but with the vertical backstop removed, the jig can also be used for raised panel cutting. The sliding base provides plenty of range of motion for positioning and locating your cuts, while the large 10" x 10" faceplate provides ample support and clamping area for the largest of panels.

Begin by adding a Miter Slider to a small Build-It Panel. Place in your table saw's miter slot and adjust for a good fit. If the blade tilts right, place it in the left hand miter slot. If the blade tilts left, place it in the right hand miter slot. Add a T-Slot Panel Connector to each edge of the panel. Cut the slotted holes and grooves as shown on the (2) 10" x 10" x 3/4" thick panels. If you are using MDF, you can cut the grooves with a 3/4" straight bit at your router table. If you are using plywood, remember it is often slightly undersized so an undersized "plywood bit" is recommended for the cuts. The depth of cut should be 1/4" and the fence to bit distance is 5/8" for all of the grooves. Before gluing up the panels and braces, drill the (2) 5/16" dia. holes in the faceplate panel. Make the (2) edge guides as shown. Attach the first edge guide to the Build-It Platform and square it to the edge of the platform. Slide the right angle assembly up against the edge guide, then add the other edge guide. Drill and attach the backstop to finish. ■

Detail 3A

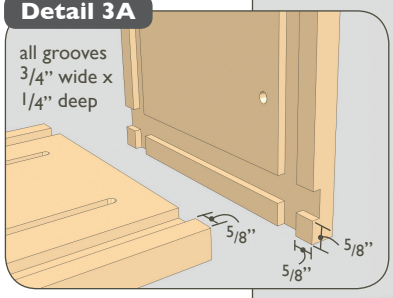
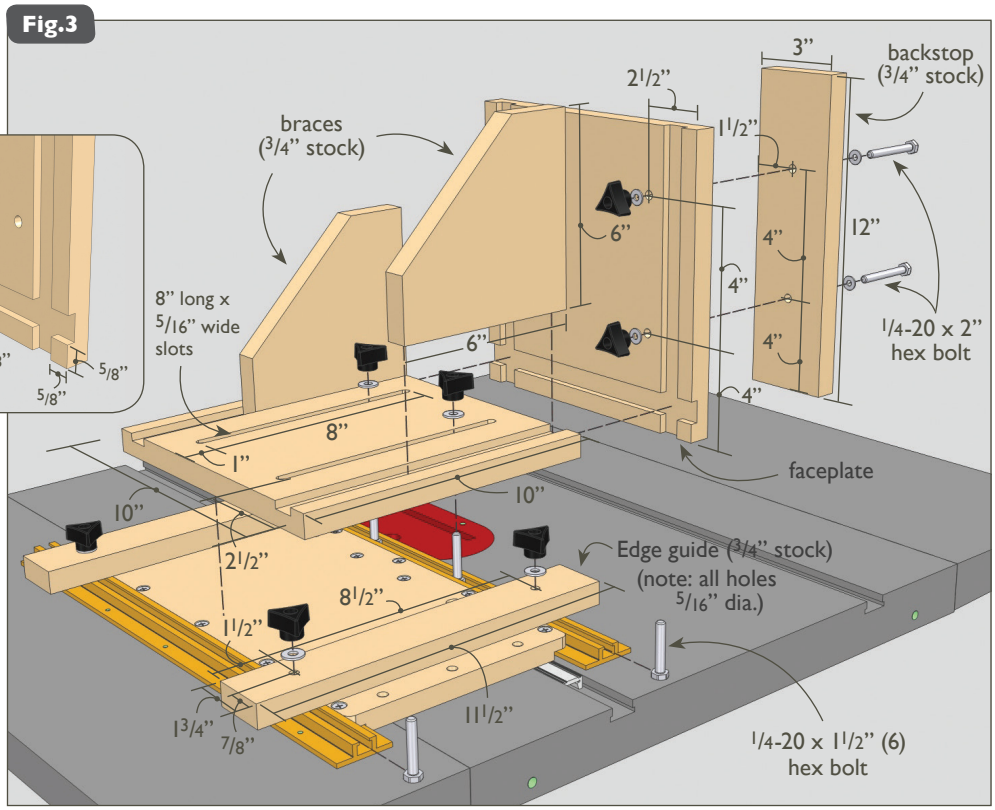


Fig.3



Adjustable Angle Crosscut

Fig.1

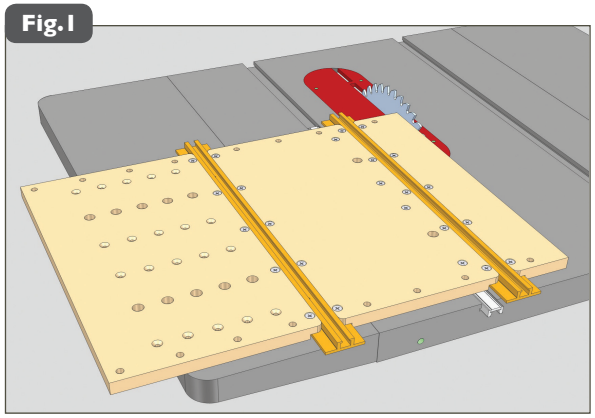
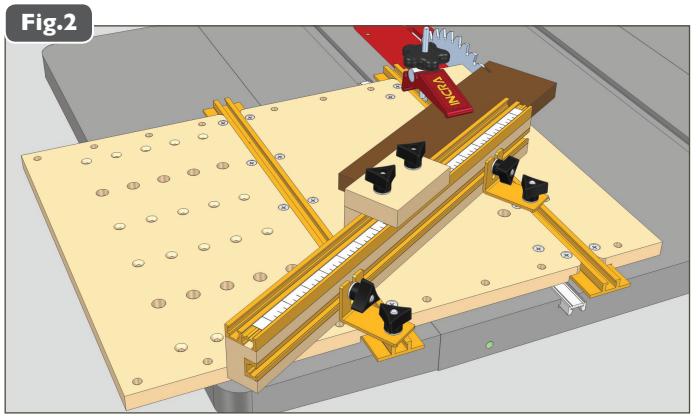


Fig.2



Build-It Platform Components Required:

- 1 Large Build-It Panel
- 1 Miter Slider
- 1 Small Build-It Panel
- 2 T-Slot Panel Connectors

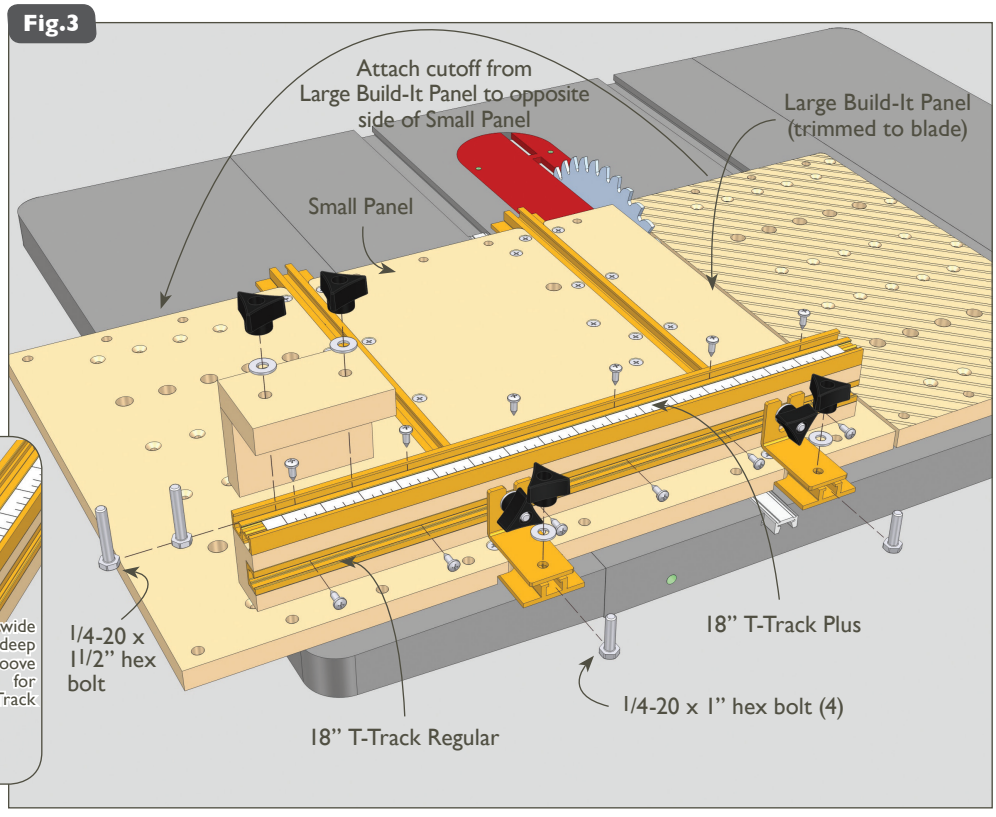
Just add:

- 18" T-Track Regular
- 18" T-Track Plus
- Build-It Brackets
- Build-It Clamp
- Build-It Knobs

Similar to Plan #001 (Adjustable Angle Crosscut with Drop Panel), this crosscut jig has a shorter 18" fence and uses fewer components to achieve comparable functionality. The T-Track Plus and user made stop positioner provide repeatable crosscut length control. The rear mounted T-Track Regular combined with a pair of Build-It Brackets and the twin T-Slot Panel Connectors allow for unlimited adjustment of the fence angle.

Begin by adding a Miter Slider to a small Build-It Panel. Place in your table saw's miter slot and adjust for a good fit, then add a T-Slot Panel Connector to each edge. Increase the platform width to cross the line of cut by adding the large Build-It Panel. Trim to the blade as described in Steps 3 & 4 shown on the reverse side of your Build-It Panel's wrapper then mount the cutoff from the large panel to the opposite side of the small panel. Make the 18" fence and stop positioner as shown in Fig. 3 and Detail 3A using 18" T-Track Regular and T-Track Plus components then attach to the T-Slot Panel Connectors using a pair of Built-It Brackets. Now you can adjust the fence to the desired angle, clamp your workpiece in place and begin your project's crosscut requirements with confidence. ■

Fig.3



Detail 3A