



PRECISION MITER GAUGE JIG

Owner's Manual



Product Components

Your MiterSet Standard includes:

- 1 laser-etched, anodized aluminum plate
- 1 detent bar
- 2 #5 tapered pins
- 1 owners manual
- 1 limited lifetime warranty card
- 1 plastic carry case with foam inserts



Product Overview

MiterSet Standard is milled from a solid billet of 6061 aluminum. It is manufactured by CNC milling process and hole placement is accurate to within .001". The miter slot that bisects MiterSet fits all U.S. standard miter gauges with a width of .75". The MiterSet miter slot is oversized to .753" to allow for variations in miter bar size. If you are able to feel movement of the miter bar within the slot it will have no bearing on the accuracy of the angle you set. If the bar is too tight within the slot it may be due to burs that have formed on the bar over time. Lightly use a fine file to remove any burs from the miter gauge bar.

If you have purchased a Shopsmith version the miter slot is machined to .723" to fit the proprietary .72" miter bar of the Shopsmith miter gauge.

MiterSet has a 2mm neoprene rubber backer that provides cushion and anti-skid qualities.

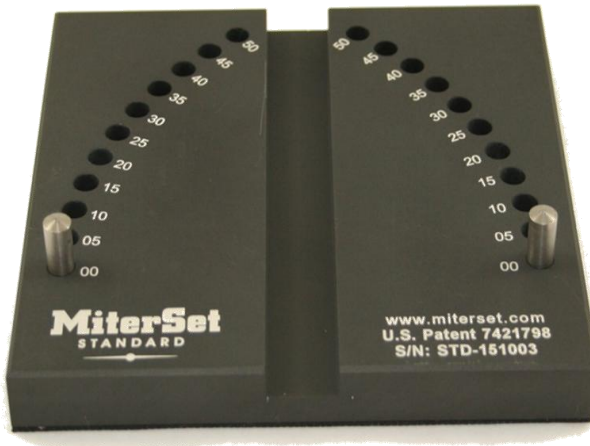
After milling, MiterSet is etched to remove imperfections from the aluminum then anodized to form a protective seal to prevent oxidation.

The aluminum is then laser-etched to yield the numbers and letters on the face of the plate. The numbers and letters may get dirty over time but will not rub off. **See page 8 for cleaning instructions.**

How to Use MiterSet Standard

MiterSet is an aluminum plate bisected by a miter slot. The number patterns on either side represent left and right angles in increments of 5° . The detent bar has machined steps with increments from $.5^\circ$ to 2.5° . The pins are used to set angle positions for left and right miter joints ranging from $.0^\circ$ to 52.5° .

An angle is set by placing one pin in the 00 or pivot hole. Place the other pin in the hole next to the number that represents the degrees required to set your miter gauge to the desired angle. Setting the miter gauge from 0° to 50° in increments of 5° does not require the detent bar. Slide your loosened miter gauge into the slot until it is firmly against the pins and lock down the angle. Your angle is accurate to within $.001''$. It's that simple.



How to Use MiterSet Standard – cont.

The Detent Bar – Let's set a 22.5° angle. Place one pin in the 00 or pivot position as pictured below. Place the other pin in the left 20° hole. Now place the flat side of the detent bar against the 00 or pivot pin and allow the 2.5° step to recess against the 20° pin. You've just set a 22.5° angle. Slide your loosened miter gauge into the miter slot until it is firmly against the detent bar and lock down the angle.



How to Use MiterSet Standard – cont.

Setting Angles for 3°, 3.5°, 4° & 4.5° - Following the same theme with the detent bar, let's set a 23.5° angle. Leave one pin in the 00 or pivot hole. Place the other pin in the 25° hole. Now turn the detent bar around. Place the flat side of the detent bar against the 25° pin and allow the 1.5° to recess against the 00 or pivot pin. This decreases the severity of the 25° angle by 1.5° and results in a 23.5° angle. **Get it?** Slide your loosened miter gauge firmly against the detent bar and lock down the angle.



Troubleshooting Notes

If your MiterSet falls with the pins in place it is possible for the pins to become wedged in the sector holes. Simply push an awl or other pointed tool through the neoprene backer and gently force the pin out of the hole.



Some miter gauges have a narrow face and may require the addition of a sacrificial face extension to reach all sector holes on the MiterSet jig.

Cleaning & Care

To clean the surface of the MiterSet plate use a water-dampened cloth. **Do Not** use abrasive materials such as steel wool or Scotch-Brite pads. Abrasives will remove the anodizing and leave the metal unprotected.

If sector holes become plugged it is best to use compressed air on a setting no more than 60 PSI to gently remove debris. Canned air used to clean keyboards is also an excellent way to clean sector holes.

Do not lubricate the tapered pins. The pins are milled to fit snugly but freely in the sector holes. Lubricating the pins will reduce the accuracy of your MiterSet. If a pin becomes wedged in a sector hole, see Troubleshooting on page 7 of this manual.

Returning MiterSet to its protective case is the best practice and will protect it from accidental drop or other shop hazards.

