USER GUIDE FOR MTR-X SET





Thanks for purchasing this genuine TSO Product. Should you have any product questions or issues, please contact us toll-free at 800-727-0311 (U.S.), 239-236-5526 (international), email us at info@tsoproducts.com, or visit www.tsoproducts. com/support.

Assembling Your MTR-X Set

In addition to using the triangle standalone, the MTR-X can be configured in the following ways:

- Triangle with shoulder, formed by hand-screwing the *Edge Index Pins* into the face of the triangle to create a projected edge.
- Triangle with clamping angles, assembled by attaching the two *Angles* to the face of the triangle with the included M6x12 screws.
- Triangle as variable angle guide rail square, when used with the included *Guide Rail Connector*.
- Triangle with protractor, assembled by following the steps below.
 - Place both *Triangle Dogs* on a flat work surface with chamfer lip facing up. A foolproof way to ensure the dogs are always oriented correctly is to place them with the "double groove" detail facing upward.
 - Place *Triangle Body* on top of the *Triangle Dogs*.
 - Place the *Pointer* on top of the *Triangle Body*, fitting over both *Triangle Dogs*.
 - Place the *M8 Washers* on top of the *Pointer*, and then screw the red *M8 Knobs* hand tight.



What's Included with Your MTR-X Set

	Qty	Item & Description
· • · • • • • • • • • • • • • • • • • •	1	MTR-X Triangle Body Precision system triangle body, anodized
Ŷ ĊĊĊŎŶ © ¥Ÿ © © ©	1	Guide Rail Connector Assembly Enables attachment of the triangle to a compatible guide rail
\bigotimes	4	M6 Edge Index Pins Two 12mm long for forming a shoulder; two 25mm long for squaring MFT/3
Ø.	4	Socket Head Cap Screw, M6x1.0-10 Used to attach clamping angles to trian- gle face
	2	M8 Knobs Secures protractor assembly to the face of the triangle
0	2	M8 Washers Place between M8 knobs and pointer when attaching protractor assembly
	1	Pointer Aluminum pointer with non-parallax viewport for precision angle finding
	2	Triangle Dogs Use these dogs to secure the triangle and pointer assembly to MFT-style worktop
	2	Clamping Angles (6") Secure to triangle face to transform triangle into clamping angle
	1	Hex Driver Use this 3mm hex driver to secure guide rail connector to your guide rail
TSO PRODUCTS TRIANGLE SMALL PARTS	1	Storage Tin A handy cubby for all of the small com- ponents included in the MTR-X Set
	1	Systainer Foam Insert Custom CNC-cut Kaizen foam insert to store the triangle and all accessories
HTR.X THERE IS IN THE IS INTERNET. IS INTERNET IS INTERNET. IS INTERNET. IS INTERNET IS INTERNET. IS INTERNET. IS INTERNET. IS INTERNET. IS INTERN	1	Systainer ID Card Fits in the ID card pocket located on systainer exterior

Questions, Comments or Ideas?

We thrive on your feedback, so please let us know if you have any comments, concerns, feedback, or ideas on how we can continuously improve our products.

We're easy to reach! In the United States, call us tollfree at 800-727-0311. For our international customers, call us at 239-236-5526. To send us a message, visit us at <u>www.tsoproducts.com</u> or email <u>info@tsoproducts.com</u>, and we'll get back to you as soon as possible.

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More Applications for Your MTR-X Set

See below for common applications of the MTR-X Precision Multifunction Triangle. Got an application we haven't listed here? We'd love to hear about it!

Referencing Off the Edge

Attach the *Edge Index Pins* to the face of the triangle to form a projected shoulder, useful for quickly referencing the edge of your workpiece as shown here. When not needed, store these pins in the *Small Parts Tin*.



Variable Angle Workpiece Marking

First, configure the MTR-X with its protractor assembly installed. Place the triangle on top of your workpiece. With both *Triangle Dogs* touching the front edge of your workpiece, loosen the *M8 Knob* located in the arced slot



and rotate the triangle body until the pointer indicates the angle of your choosing. Tighten the *M8 Knob* and go about marking or scribing your workpiece.

Variable Angle Fence for MFT-Style Worktop

First, configure the MTR-X with its protractor assembly installed. Insert the triangle into your MFT-style worktop at the desired location. Set the angle using the M8 Knobs on the protrac-



tor, abut your workpiece to the long edge of the triangle, and proceed to make your cut.

Variable Angle Guide Rail Square

First, configure the MTR-X with its protractor assembly installed. Attach the *Guide Rail connector* to the triangle and compatible guide rail. Set the angle using the M8 Knobs on the



protractor assembly. With both Triangle Dogs touching the front edge of your panel, make the cut with your tracksaw.

Square MFT/3 Guide Rail to Fence

Not sure if your MFT/3 guide rail is positioned at a perfect 90 degree angle from the fence? Use the triangle to quickly confirm squareness. Install the longer 25mm *Edge Index Pins* on one face of the triangle and position that side against the elevated guide rail, with the other edge pushed tight against the MFT/3 fence.



Quick 45° or 90° Cuts on MFT-Style Worktop

Skip the setup fuss and get to cutting fast. Drop two *Triangle Dogs* into your MFT-style worktop and then place the triangle on top of the dogs. Be sure the "double groove" feature of the dogs face upward.



Adjust Your Miter Gauge to a Perfect 45 or 90 Degrees

Confirm your miter gauge is at a perfect 45 degrees to the table saw blade by first aligning the hypotenuse edge of the triangle with your table saw blade. Ensure the triangle spans the entire length of the blade, including the carbide cutters which are typically wider than the core. Loosen your



miter gauge angle adjustment and slide it into your miter channel, up to the edge of the triangle as shown in the picture above. To calibrate your miter gauge at a perfect 90 degrees to your table saw blade, follow the same procedure but use the two shorter ends of the triangle.

Square a Cabinet Interior

Attach the *Clamping Angles* using the included four *M6 Screws* to the perpendicular sides of the triangle. Place the triangle into the corner of your casework or drawer, and secure with clamps to pull the assembly square during dry-fit or glue-up.

