

TILT-TOP PORTABLE SYSTEM

WHAT'S INCLUDED:

- (1) TILT-TOP PORTABLE BENCH SYSTEM WITH 6-1/2" VISE & ADAPTER BLOCK
- (2) PIVOT ARMS
- (2) ANTI-FRICTION NYLON WASHERS
- (4) 4" GRIP PINS
- (4) 3/4" GRIP PINS

INSTRUCTIONS:

1. SET THE CONTENTS OF THE BOX ON A TABLE TO INSURE THAT ALL THE ITEMS ABOVE HAVE BEEN SHIPPED.
2. CLAMP THE TILT-TOP PORTABLE BENCH SYSTEM TO A VERY SOLID AND STABLE SURFACE.

NOTE: BE AWARE THAT TILTING THE BENCH CHANGES THE CENTER OF GRAVITY OF THE TABLE AND BENCH. **THIS COULD CAUSE THE TABLE TO TIP OVER.**

HERE ARE TWO SUGGESTED SOLUTIONS:

1. PLACE A COUNTER WEIGHT ON THE OPPOSITE SIDE OF THE TABLE
2. CLAMP THE TILT-TOP PORTABLE BENCH AT THE END OF A LONG RECTANGULAR TABLE OR BENCH.
3. INSTALL THE ANTI-FRICTION NYLON WASHER OVER THE PIVOT PINS ON EACH OF THE PIVOT ARMS.
4. INSERT THE PIVOT PIN OF ONE PIVOT ARM INTO THE VISE JAW ADAPTER BLOCK ON THE MOVABLE VISE JAW.
5. INSERT THE PIVOT PIN OF THE REMAINING PIVOT ARM INTO THE HOLE ON THE BENCH TOP THAT BEST MEETS THE NEEDS OF SECURING YOUR PROJECT.
6. INSERT THE GRIP PINS INTO THE HOLES IN THE PIVOT ARMS THAT BEST MEET THE NEEDS OF HOLDING YOUR PROJECT.

TIPS:

1. IN SECURING THE TILT-TOP PORTABLE BENCH IT MAY BE HELPFUL TO CLAMP IT AT THE CORNER OF THE TABLE OR BENCH SO THAT A CLAMP CAN BE PLACED ON THE REAR CLAMPING POINT. THIS STABILIZES THE TILT-TOP PORTABLE BENCH IF THE TABLE SURFACE IS SHAKY.
2. WE SUGGEST THAT YOU SET BOTH SUPPORT ARMS AND TIGHTEN ALL FOUR SUPPORT ARM SCREWS WHENEVER YOU ARE USING THE TILT-TOP PORTABLE.
3. WHEN SECURING YOUR PROJECT, PLACE THE GRIP PINS AT THE WIDEST POINTS THAT WILL HOLD YOUR WORK PIECE. THIS INCREASES THE STABILITY OF YOUR WORK.
4. DON'T BE AFRAID TO TIGHTEN THE VISE. THE GRIP PINS MAY BEND OUTWARD, BUT THAT IS PART OF THE DESIGN AND KEEPS THE SYSTEM FROM CRUSHING FRAGILE OBJECTS. WHEN YOU FEEL YOU HAVE TIGHTENED THE CRANK HANDLE ENOUGH, CHECK THE WORK PIECE TO INSURE IT IS TIGHT ENOUGH TO PROCEED. IF IT SEEMS THE LEAST BIT LOOSE, TIGHTEN THE CRANK HANDLE FURTHER UNTIL THE WORK PIECE DOES NOT MOVE.
5. IF YOU NEED A DIFFERENT LENGTH OF GRIP PINS, PURCHASE ANY LENGTH OF 1/4-20 PARTIALLY THREADED BOLT AT YOUR LOCAL HARDWARE STORE, CUT THE HEAD OFF AND SLIP A PIECE OF 1/4" ID FUEL HOSE OVER THE BOLT (ALSO AVAILABLE AT THE HARDWARE STORE). YOU CAN ALSO WRAP THE BOLT WITH FRICTION TAPE OR ANY OTHER SUITABLE NON-SLIP MATERIAL.
6. **NOTE: DO NOT** USE ALL-THREAD ROD OR FULLY THREADED BOLTS. WHEN PRESSURE IS APPLIED BY TIGHTENING THE VISE, THE THREADS UNDER THE PROTECTIVE COVER COULD CUT THROUGH AND MAR YOUR PROJECT. THREADS ARE NEEDED WHERE THE BOLTS ARE INSERTED INTO THE PIVOT ARMS TO HOLD THEM IN PLACE, BUT THERE SHOULD BE NO THREADS ABOVE THE PIVOT ARM.

7. WE RECOMMEND USING C-CLAMPS OR F-STYLE CLAMPS TO HOLD THE TILT-TOP PORTABLE ON THE BENCH OR TABLE. WE **DO NOT** RECOMMEND SPRING CLAMPS OR QUICK-TYPE CLAMPS AS THEY MAY NOT HAVE SUFFICIENT HOLDING POWER.

