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## **SUGGESTIONS FOR REPLACING OR INSTALLING A TIE PLATE ON A DURAFLEX DIVE STAND.**

The Tie Plate (Item #522) is the rectangular piece of anodized aluminum that holds ("ties") together the two Roller Block Assemblies (Item # 517) on a Duraflex Dive Stand and helps the fulcrum to slide back and forth as one unit instead of wobbling or "twisting."

NOTE: Two people or a Long "Slide Clamp" will make this job much easier to successfully complete.

**TOOLS NEEDED:** Safety goggles; 1/2" Box Wrench; 1/2" Socket; 9/16" Box Wrench; 9/16" Socket (and ratchet); Long Slide Clamp (or two people), Grease Gun; Grease; Cleaning Rags; Grease Solvent.

### **PROCEDURE:**

**STEP 1:** Remove fulcrum assembly and discard old, worn or broken parts.

**STEP 2:** Thoroughly clean the Slide Tracks using grease solvent and rags. Be sure to clean the top, both sides and the inside bottom of the Slide Tracks. When clean, Slide Tracks should be ALL BLACK with a shiny luster. If you see any scratches or bare metal showing, you should consider replacing the Slide Tracks first before proceeding. (See "Suggestions for Replacing Slide Tracks on a Duraflex Dive Stand")

**STEP 3:** Using your fingers, apply a THIN coating of (factory recommended) Mystik JT-6 Grease to the Slide Tracks. Be sure to grease the top, both sides and the inside bottom of each Slide Track. (KEY: *Less grease is better than too much grease.*)

**STEP 4:** Attach both Roller Block Assemblies to the Slide Tracks and tighten the Anti-Rattle Bolt just enough that Roller Block Assembly is snug. Make sure that the two holes through which the Tie Plate Bolts will fit, are facing toward the inside of the fulcrum assembly.

**STEP 5:** Line up the two Roller Block Assemblies so that they are (exactly) opposite of each other on the Slide Tracks. The "U" shaped cutouts of the Tie Plate are 9/16" just as the hex head of the Anti Rattle Bolt is too. Using the "U" shaped cutouts of the tie plate as a wrench, slightly turn the heads of the Anti-Rattle Bolts (Item # 528) so that they are lined up exactly the same. If they are not lined up precisely, the Tie Plate will not fit correctly. Next, set the Tie Plate on the two Roller Block Assemblies and try to line up the four holes of the Tie Plate with the holes of the Roller Block Assemblies.

NOTE: The old Duraflex Tie Plates had larger “U” shaped cutouts than the current Tie Plates with their 9/16” cutouts. This made it difficult to complete the installation because the head of the Anti Rattle Bolt would spin inside the cutout when a person would try to tighten that bolt. If you find yourself in this situation, you may want to purchase a new Tie Plate. (Item #522)

**STEP 6:** Insert the Tie Plate Bolts through the Roller Block Assemblies and Tie Plate FROM THE BOTTOM. Add a washer and nut to each bolt and HAND tighten.

TIP: Inserting the Tie Plate Bolts through the Roller Block Assemblies can be tricky. Make sure that one edge of the hex-head bolt is FLAT against the inside wall of the Roller Block Assembly. Even if it is slightly crooked, the Tie Plate Bolt will NOT fit through the hole.

**STEP 7:** Two people or one person and a large slide clamp make this job much easier -- In order to correctly install the fulcrum assembly, all “slack” must be removed when the Tie Plate is installed to the Roller Block Assemblies. In order to do this, you need to push the two Roller Block Assemblies toward each other before final tightening of the Tie Plate Bolts. Two people, using the heel of your hands, simultaneously push hard against the bottom edge of each Roller Block Assembly. If you have one, use a large slide clamp to hold together the two Roller Block Assemblies. While applying pressure, tighten the four Tie Plate Nuts with a ½” socket or box wrench.

**STEP 8:** Check Your Work: Using both hands, slide the fulcrum assembly back and forth on the Slide Tracks. The fulcrum assembly should move as one unit with no “twisting” or uneven movements.

**STEP 9:** Finish the fulcrum assembly by installing Foot wheel with attached Roller and then attaching Diving Board to the dive stand.

NOTE:

The procedure for installing a Tie Plate is the same for all Duraflex 1M, 3M and Short Stands.

SEE ALSO:

Suggestions for repairing / installing a Duraflex fulcrum assembly.