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SUGGESTIONS FOR REPLACING DURAFLEX HINGE PINS, NYLINERS AND "O" RINGS

The loud noise that you hear coming from the hinge area of a Duraflex Diving Stand is usually the result of missing or broken NYLINERS ("bushings") (Item # C209). To replace Nyliners, Hinge Pins (Item # C203) or "O" Rings (Item # 210) follow these suggestions.

- 1) Determine that indeed the noise is coming from the hinge area of the diving stand.
- 2) Remove the diving board from the hinges. (It is very difficult to remove the hinge pin of a Duraflex Hinge when the diving board is still attached to the hinges!)
- 3) Using an "O" Ring pick, needle nose pliers, tweezers, razor blade or dentist tool, remove the "O" rings from the ends of each hinge pin. (There should be two "O" rings per hinge)
- 4) Using a hammer and a long tapered "drift punch" or a long bolt that is thinner than the hinge pin itself, gently knock out the hinge pin. It is usually best to tap the hinge pins "inward" (working from the outside in). *WARNING: If planning to re-use the hinge pin and only replace the Nyliners and "O" Rings, keep in mind that pounding on a hinge pin may "ding" circumference of pin edge, which may cause the pin to NOT fit in hinge hole. NOTE: Sometimes it is much easier to remove the hinge from the diving stand and put it into a Table Vise and "punch" the pin out vertically.*
- 5) Once the hinge pins have been removed from the hinge, remove the Nyliners from the hinge pin. There should be FOUR Nyliners per hinge. Sometimes a Nyliner will break and will remain stuck inside the hinge. Check your hinge to verify that no Nyliners are left inside.
- 6) Using a de-greaser spray or cleaner, clean the holes of the two hinge parts (male and female). Also, clean the hinge pin itself if you are just replacing the Nyliners and the "O" rings.
- 7) Lubricate the hinge pin with a few drops of 3 in 1 oil. Insert two Nyliners into the female portion of the Duraflex hinge (this is the hinge part that is bolted to the diving stand). The Nyliners should be inserted from the outside of each hole towards the center. Do the same with two more Nyliners into the male portion of the Duraflex hinge. NOTE: The lip of the Nyliners should all be facing towards the outside of each hinge assembly.
- 8) Place the male portion of the hinge into the female portion of the hinge and gently insert the hinge pin through the hinge working from the INSIDE TOWARDS THE OUTSIDE. (It is easier to insert the pin in this direction because there is more room to use a hammer and punch if necessary, to tap the hinge pin into the hinge assembly.
- 9) While inserting the hinge pin, make sure to hold the Nyliner that is farthest away from the insertion point tight to the hinge with your fingers or even a pair of pliers. There is a tendency for this last Nyliner to slide out as the hinge pin is being pushed through.
- 10) Once the hinge pin is inserted all the way, place an "O" ring on either end of the hinge pin and insure that it fits down in the groove that is cut into the hinge pin.
- 11) When you are finished, apply a few drops of 3 in 1 oil into the hole found in the top center of the hinge. This will help to keep the hinge pins and Nyliners lubricated and allow them to move easier.

If you still have questions about this maintenance operation, you can see an exploded view drawing as well as a picture of a Duraflex Hinge Assembly on our website at www.springboardsandmore.com.