

### **Replacing a drive dog in a Mark 6 Xtender or Intra-X film processor.**

1. Turn the processor's power switch to off and remove the power cord to ensure safety.
2. The drive dog kit comes with enough parts to do all four drive dogs at the same time. Each kit consists of new drive dogs, springs, flat washers and D-shafts. The D-shafts are rarely used when the drive dogs are replaced. If you notice a D-shaft appears to be distorted you should replace the D-shaft. This is rare and being so, we won't be addressing how to replace the D-shaft. The rest of the parts will be discussed during our replacement procedure below.
3. Remove all the tanks and modules in the Intra-X processor if you are working on an Intra-X or remove all the modules in the Xtender if you are working on an Xtender to give yourself plenty of room to work with.
4. Our example here will be associated with an Xtender film processor. The Intra-X processor's drive dogs are identical to the Xtender drive dogs. By changing out the Xtender drive dogs you in fact will already know how to change out the Intra-X drive dogs.
5. To keep from dropping any of the drive dog parts in any of the Xtender's tanks you can cut a piece of cardboard and lay it over the developer, fixer and water tanks. This should prevent any parts that may be dropped from falling into a tank.
6. When replacing a drive dog only replace one drive dog at a time. As an example we will assume we are replacing the fixer drive dog at this time.
7. With one hand grasp the bonnet, the off-white round piece of plastic that holds the fixer drive dog in place. Turn the bonnet counterclockwise about a quarter of a turn. Pull the bonnet away from the processor. The black drive dog may pull away with the bonnet or it may loosely hang onto the D-shaft it normally rides on. In either case, make sure it doesn't fall inside a tank. If it does, remember to remove the drive dog from the tank before operating the processor later.
8. Place the bonnet out of the way. Place the old drive dog out of the way too if it came off with the bonnet. If the old drive dog is still on the D-shaft remove it and place it out of the way.
9. You should see a spring located on the D-shaft. Remove it and place it out of the way.
10. The final part to replacing the drive dog is a flat washer that sits on the D-shaft. You can keep the old flat washer on the D-shaft or remove it and replace it with the newer flat washer. These do not tend to go bad.

11. With the flat washer in place on the D-shaft, put a new spring on the D-shaft.
12. Pick up a new drive dog and look at both ends of the drive dog. One end is shaped like a D. This end will slide on the D-shaft when we get ready to install the drive dog. The other end of the drive dog looks similar to a bowtie. This end goes into the bonnet.
13. Pick up the bonnet and drop the drive dog into the bonnet. Make sure the bowtie end goes into the bonnet first. The D-shaped end will be facing towards the rear or away from the bonnet.
14. Notice the bonnet has two tabs that will go into two slots in the processor when you replace the bonnet. The processor actually has four slots available. They are located at the twelve o'clock, two o'clock, six o'clock and eight o'clock positions. The tabs will go into the two o'clock and eight o'clock positions. **DO NOT** use the twelve o'clock and six o'clock positions.
15. Push the bonnet's two tabs into the processor's slots located at the two o'clock and eight o'clock positions. In a few seconds you will need to rotate the bonnet clockwise about a quarter of a turn to lock it in place. Before you can do this though you need to align the end of the drive dog that is shaped like a D to the D-shaft itself.
16. Hold the bonnet in place with one hand while taking a finger from your other hand and placing the tip of that finger against the drive dog's bowtie end. Apply pressure to the drive dog forcing it into the processor while rotating your finger. You should come to a point where the drive dog will align itself with the D-shaft. When it does align, the drive dog will move in towards the processor. At this point, rotate the bonnet clockwise about a quarter turn. The bonnet should come to rest while holding the drive dog in place.
17. Compare the drive dog to another drive dog you have not yet replaced. They should be identical in looks. The drive dog should easily push in and pop back out because of the spring you earlier placed on the D-shaft.
18. This completes replacing one drive dog.