

# Operating Instructions



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**READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN YOUR AK REEL. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!**

Please read these instructions to assist you in the installation, operation and maintenance of this product.

## DESCRIPTION

AK REELS are spring driven, auto rewind reels built using the highest quality materials. Each reel is supplied standard with a Locking Ratchet to hold the desired length of hose.

## INSTALLATION

**Note:** Reels Installed above 2 Metres (6' 6") must be mounted with the mouthpiece facing down.

1. You will need a set of appropriate mounting hardware; 4 (four) x 8mm bolts or coach bolts, washers and nuts per reel.
2. Attach the Mounting Bracket (posts are to point up) to the wall/post using the mounting hardware. Secure and tighten all bolts and nuts.
3. If desired, install the handle to the reel using the 2 (two) x 40mm screws supplied. Slide the hose reel onto the mounting bracket and secure with the safety pin.
4. Flush some product through the system before connecting inlet hose to the source.
5. Apply thread sealant to the inlet hose threads and connect the end to reel inlet. Connect the other end to the supply line.
6. Flush some product through the system and reel before connecting outlet nozzle, gun or tool.
7. Apply thread sealant to outer hose fitting. Connect outlet nozzle, gun or tool. Check system for leaks, and hose reel for correct operation (see "Operation").
8. If hose stopper adjustment is required, latch the hose at approximately the required length, loosen stopper screws, move stopper to the desired position and re-tighten stopper screws. Unlatch the hose.

## OPERATION

1. Check the reel for correct operation by slowly pulling out the hose. A "clicking" noise will be heard after each half revolution of the drum.
2. **TO LATCH** the reel, pull out the hose and allow it to retract after the first, second or third "click" is heard.
3. **TO UNLATCH**, slowly pull the hose until the "clicking" noise stops, then allow the hose to retract. The hose stopper should rest against the hose guide.

**DO NOT ALLOW THE HOSE TO RETRACT**

**WITHOUT RESTRAINING RECOIL SPEED.**

**NEVER LET GO OF THE END OF THE HOSE**

**WHEN IT IS REWINDING.**

4. Periodically check the hose for wear, and the swivel for possible leaks.

## SERVICE INSTRUCTIONS

**RELEASE LINE PRESSURE, DISCONNECT FLUID SUPPLY AND RELEASE SPRING TENSION BEFORE ATTEMPTING ANY MAINTENANCE OF THE REEL.**

### SPRING TENSION ADJUSTMENT

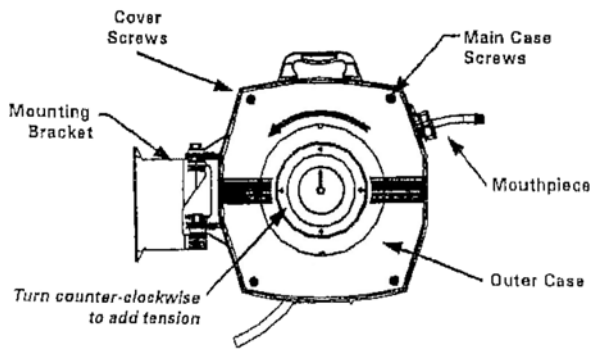
#### *Releasing Spring Tension*

1. Disconnect inlet hose. (Hose must be rewound into Reel)
2. Remove screws from locking plate.
3. Remove any three screws from tension plate.
4. Hold tension with hand while unscrewing the last screw.
5. Let both plates spin in hand (2-3 turns) to release tension.

#### *Retensioning the Spring*

1. Fully retract the hose.
2. Turn tension plate in the rewind direction of the hose (anti-clockwise) This should be accomplished with a maximum of 3 revolutions. (CAUTION: Do not exceed 3 revolutions or permanent damage could occur.)
3. The arrow on the tension plate must be vertical for proper engagement.
4. While holding the tension plate in place, replace screws into the tension plate.
5. Align the locking plate onto the assembly using the swivel as a guide and replace the screws.

**IMPORTANT: Side plates are connected via a brass and nylon shaft. Do not attempt to turn one side without the other side turning simultaneously. Turning one side only will result in a broken nylon shaft or other possible damage**



## SPRING TENSION ADJUSTMENT

1. Release spring tension by following the instructions in "Releasing Spring Tension".
2. Remove the four screws on the locking plate and remove the plate.
3. Remove the four screws from the mounting bracket at the rear of the case. (Ref. Fig 3.)
4. Remove the four main case screws
5. Lift the outer case off the reel (Ref. Fig 1.)
6. Cut the hose clamp off swivel using a suitable tool (E.g. Side Cutters).
7. Remove hose from the swivel. The hose may need to be slit along the length of the swivel. Be careful not to cut into the swivel.
8. Pull the old hose out and remove the stopper.
9. Remove the retaining screw in the swivel assembly and slide the assembly off the nylon axle. (Fig. 2.)
10. Replace old Sub 100 Assembly with new one.

Refer to "Replacement of Hose" steps 9-19 to reassemble reel.

## SWIVEL SEAL REPLACEMENT

1. Release the spring tension by following the instructions in "Releasing Spring Tension"
  2. Remove the four screws on the locking plate and remove plate.
  3. Remove the four screws from the top side of the mounting bracket at the rear of the case.
  4. Remove the four main case screws of the outer case on the locking plate side.
  5. Lift the outer case off the reel.
  6. Pull swivel assembly up to expose retaining screw.
  7. Remove retaining screw from nylon shaft.
  8. Pull swivel assembly off nylon shaft.
  9. Remove circlip from swivel assembly and slide plastic swivel off the brass shaft.
- CAUTION:** Do not damage the inside of the plastic swivel against the brass shaft during removal.
10. Remove old o-rings. Clean and inspect o-ring grooves for damage. Lubricate and fit new o-rings. Replace complete unit if necessary.
  11. Reassemble swivel assembly. Slide onto nylon shaft and insert retaining screw. Do not over tighten! - ensure screw head is below bearing surface.
  12. Replace case cover and screws.
  13. Replace locking plate and screws.
  14. Reconnect inlet hose and test for leakage.
  15. Retension the reel following instructions for "Retensioning the Spring"

## REPLACEMENT OF HOSE

1. Extend the hose to the final latch position.
  2. Remove the four screws on the locking plate and remove the plate.
  3. Remove the four screws from the mounting bracket at the rear of the case.
  4. Remove the four main case screws on the locking plate side.
  5. Lift the outer case off the reel.
- CAUTION:** Do not attempt to remove the hose spool from the casing as this will release the spring tension and cause possible damage to the spring.
6. Cut the hose clamp off swivel using a suitable tool (E.g. Side Cutters etc.).
  7. Remove hose from the swivel. The hose may need to be slit along the length of the swivel. Be careful not to cut into the swivel.
  8. Pull the old hose out and remove the stopper.
  9. Pull the new hose through the hole in the flange of the spool (Fig. 4.)
  10. Heat the end of the hose in hot water until soft.
  11. Lubricate the end of the swivel with **vegetable oil or detergent solution** (Fig. 5).
  12. Slide clamp onto hose (Fig. 5).
  13. Push new hose onto the swivel and fit new clamp onto the hose (Fig. 5).
  14. Wind hose fully onto the reel, making sure the hose lies flat and neatly.
  15. Pull hose end through the mouthpiece of the case. Attach the hose stopper and fitting (Fig. 3).
  16. Release spring tension by pulling the hose past the latch position.
  17. If additional spring tension is required, wrap loose hose around the spool.
  18. Replace case cover and screws.
  19. Replace locking plate and screws.

