



Y-Frame Backstops Operation and Maintenance

Caution

- Never work alone when inspecting superstructure or high wall attachments.
- Consult installation instructions and project drawings for information on part numbers and placement.
- When calling IPI by Bison with questions, please have your order number, and, if possible, project drawing that was provided with your backstop.

Operation

- Make sure folding backstops can be seen from which location or, if using electric winches, from key switch location.
- Only qualified personnel should operate folding backstops.
- Keep objects that may interfere with backstop operation out of the way.
- Do not operate folding backstops while maintenance or repair work is being done.
- Keep keys for key switches in a safe place. If one of the keys is lost, contact IPI by Bison for a replacement.
- Backstops do not have to be fully raised or lowered before changing direction of fold.
- Use winches only for their original purpose; if equipment changes are necessary, contact IPI by Bison.
- If you encounter a problem during installation or operation of your backstop, contact IPI by Bison immediately.

Maintenance/Inspection

NOTE: Y-Frame backstops by IPI by Bison are designed to operate for many years with a minimum of maintenance. However, you should periodically inspect your ceiling-suspended backstops to ensure they are in good repair and operating properly. Check backstops at least twice a year, depending on amount of use.

You will find on page 2 a maintenance checklist. Detach, make copies and hang this list in a convenient location to help keep track of inspections and repairs.

If you encounter problems, or need to replace any parts, contact your dealer or IPI by Bison.

Winches

- Examine cable drum on winch for excessive wear or looseness. Ensure cable is wrapping correctly, and that "stacking" (cable wrapping unevenly) does not occur.
- Check key switch operation. Make sure keys work properly, and that winches respond correctly.

- Make sure winch is still properly anchored. Make sure anti-rotation bolts are installed. If winch has slipped slightly, correct and tighten bolts using an impact wrench.

Please Note: Bison Y-Frame winches are self-lubrication. No periodic application of grease or oil is required.

Cable Run

- Check cable sheaves for excessive wear or looseness. Make sure cable is still passing properly through the sheave.
- Inspect cable clamps for tightness; Make sure there is no slippage.
- Check aircraft cable for fraying. (Hint: One way to do this is by running an oily rag along the aircraft cable. The rag will snag on frays; it will also lubricate the cable). If fraying is encountered, contact your dealer or IPI by Bison for replacement. **Caution: Wear gloves when checking for frays!**

Safety Belt

- Check safety belt for tears or fraying.
- Make sure connection to backstop is secure, and that clamps are tight and in their original position.
- Inspect safety belt structure attachment. Make sure bolts and clamps are still tight, and that the unit has not slipped.

Backstop/Accessories

- Inspected backstop attachment and superstructure. Make sure all bolts and clamps are tight and have not shifted.
- Work your way down the backstop, making sure all clamps are tight and in their original positions. Check for cracks, corrosion or other signs of damage or excessive wear.
- Make sure back, front and side Braces are still at proper length, and that jackknives are folding correctly.
- Check height adjuster for loose clamps and binding that keeps it from operating correctly (if applicable).
- Lubricate inner tubes of height adjusters with petroleum jelly.
- Inspect bank and goal for cracks or bending. Also make sure top of rim is still 10' above the floor, and level.
- Check padding for tears, missing pieces, or loose sections. Re-glue if necessary.
- Use carpenter's level to make sure backstop is still vertically plumb, and that bank is horizontally level.

Replacement/Repairs

It is highly recommended that repairs or replacement of defective/worn parts be carried out by a qualified installer. Contact your dealer or IPI by Bison to order replacement parts or obtain information on installers in your area.