



Mast Cleaning and Lubrication Maintenance Document

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Will-Burt pneumatic telescoping masts should be cleaned and lubricated on a regular basis to insure smooth operation and to prolong useful life. This maintenance should be performed typically about once a month depending upon local environmental conditions and frequency of use. Signs that cleaning and lubrication are needed can be:

- A noticeable gritty film on the exterior surfaces of the mast sections
- Erratic extension or retraction of the mast
- Noisy operation of the mast
- Sticking of one or more mast sections when mast is extending or retracting

WARNING: A pneumatic telescoping mast is a pressure vessel. Caution must be exercised to stay clear when the mast is being extended. Do not lean directly over the mast. Proper eye protection should be worn when working on the mast.

PROCEDURE:

1. Remove top load from the mast. This will allow the sections of a non-locking mast to more easily be extended from smallest to largest. See Step 3. On locking masts, the sequence of extension can be controlled by the locking collars.
2. When a regulator exists in the pneumatic system, reduce its pressure to between 5 and 10 PSIG.

WARNING: 10 PSIG should be sufficient pressure to extend all sections of the mast without a top load. If any section will not extend with 10 PSIG the mast may require overhaul. Consult the factory.

3. One person operating the air control valve should slowly pressurize the mast just enough to extend the top mast section. Another person may need to hold down the larger mast section collars to assure the proper sequence of extension. Close the air control valve as soon as the mast section is up.
4. Wipe down the extended mast section using a non-abrasive cleanser or solvent such as lacquer thinner. Do not allow the cleaning fluid or solvent to run down inside the collar.
5. Repeat steps 3 and 4 for the next larger mast section.
6. Inject approximately 1/2 oz. of TMD Mast Lubricant* or a light weight machine oil into the weep hole (drain) of the exposed mast section. The weep holes are located between one and three feet below the collar on each tube except the top one.

7. Repeat steps 3, 4 and 6 for each of the remaining mast sections. The larger diameter sections should be injected with approximately 1 oz. of lubricant.
8. Lower the mast completely. Allow several minutes for the lubricant to settle and spread around the wear ring and seal at the bottom of each mast section.

WARNING: Keep hands clear of the descending collars while the mast is being lowered to avoid pinching.

9. Extend the mast again one section at a time in the same sequence (smallest to largest). Wipe off any excess lubricant which flows out of the weep holes.

NOTE: Do not lubricate the exterior of the mast as this will cause it to attract dust and contaminants from the air.

* TMD Mast Lubricant is specifically formulated for cold weather use, but is suitable for year around use. Regular winter maintenance and the frequent use of TMD Mast Lubricant should significantly reduce the potential for mast freeze ups. TMD Mast Lubricant is also intended for use in air in-line lubricators.