

Cleaning and Lubrication of Telescoping Masts

The telescoping masts should be regularly cleaned and lubricated to ensure smooth operation and extend its life expectancy. This maintenance must be done once each three months depending on the environment conditions, installation place and use frequency. The mast should be cleaned and lubricated always when:

- Appearance of a dirt film on the outer surface of the mast.
- Elevation or retraction of the mast occurs irregularly.
- Noise occurrence during operation.
- When elevating or retracting the mast, two or more sections are displaced simultaneously.

WARNING

The Telescoping Mast is a pressurized tube.

Precautions should be taken when the mast is elevated. Eye protectors should be used while operating the mast.

1. Lubrication (each 3 months):

- 1) If possible remove all load installed on the mast. This will make elevation easier . In the masts with locks, the elevation sequence can be controlled by the locking pins.

WARNING: The 10PSIG should be sufficient to elevate all the mast's sections without loads. If any of the sections does not extend with 10 PSIG, an inspection to verify the cause. In case it is not discovered, contact RF COM.

- 2) In the masts with locking, one person should control the air exit valve, so that the mast pressurization is done slowly, in a way that only the superior section of the mast is extended. Another person is necessary to activate the locking pins. In the masts used for Broadcasts without locks, the 3,4,5 items should be executed as the sections are elevated. Close the air control valve as soon as the mast is extended.
- 3) Clean the mast's sections using a solvent or a cleaning product. **Never** use abrasive products. Do not let the cleaning products drain inside the collar.
- 4) Inject approximately 30ml lubricating oil Will-Burt (**RF COM # 17072**), as the side image, in the exposed section of the drain. The drains are located approximately 30cm to 1m bellow the collars, except in the top section.
- 5) Repeat steps 3 and 4 for each section of the mast. For sections with bigger diameters, 60ml of lubricating oil should be injected.
- 6) Retract the mast completely. Let, for a few minutes, that the lubricating oil gets spread around the ring and the sealing ring located at the base of each mast section.
- 7) Extend the mast again, one section each time, in the same sequence, from the smaller to the bigger.
- 8) Remove the lubricant excess that came out of the drains.



NOTE

Do not lubricate the external parts of the mast, because the impurities from the air will be added to the lubricant.

2. Basic Revision(each 2 years)

The WILL-BURT pneumatic telescopic masts must go through a complete revision every 2 years, which consists of disassembly, cleaning, lubrication, and eventually change of damaged parts for original WILL-BURT ones.

3. General Revision (each 5 years)

Recommended by the manufacturer, consists of general cleaning and the change of all insulating elements, which suffer stress with time.