

TRE17 150-mm Secretan Reflector: Restoration

Issues:

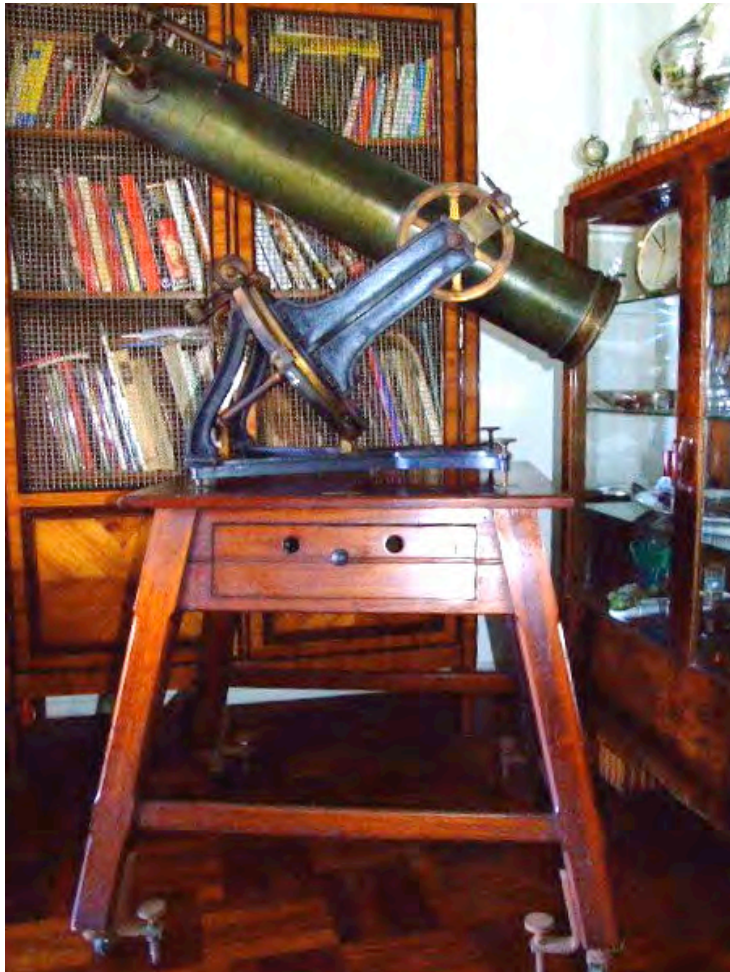
1. Came from Montevideo, Uruguay with all cast iron parts badly rusted and all brass heavily corroded.
2. Eyepiece for finder was missing.
3. The lever for engaging the right ascension adjuster was missing.

Action taken:

1. Carefully cleaned rusted iron parts and repainted with satin black enamel
Brass parts were cleaned by not down to bare brass - all tooling marks were left
2. I was fortunate to find an eyepiece replacement that works just fine.
3. Designed a new engaging lever and keeper nut (see photos) - used retainer flanges on inside of the end cap as a design guide for the lever.

Photo Credit:

Mark Obelar, www.antiantiquetiles.com, for all photos taken in Uruguay and before restoration.
The author is grateful to Mr. Obelar for his thoroughness in documenting this important telescope while still in his possession.

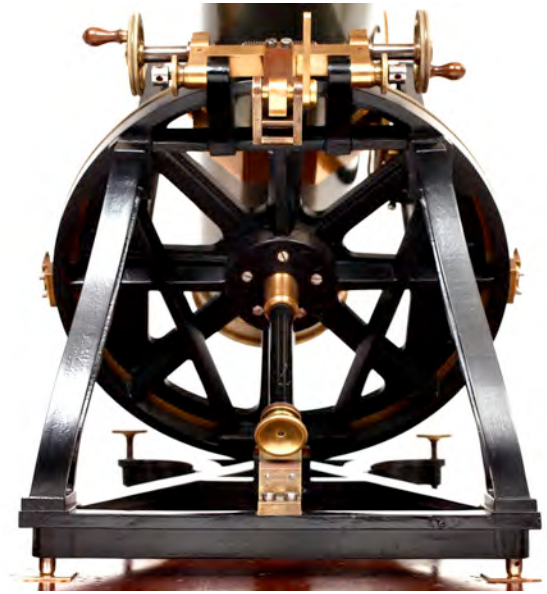
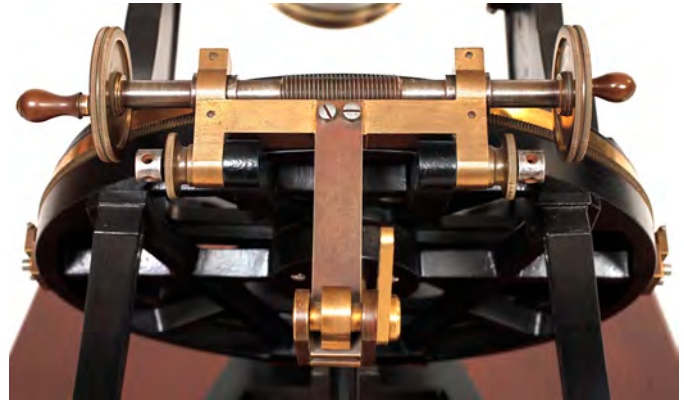
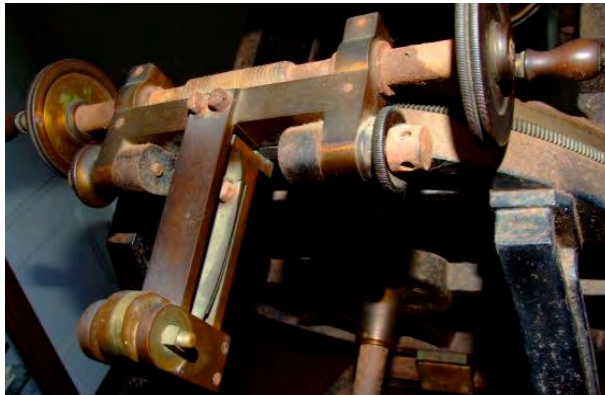
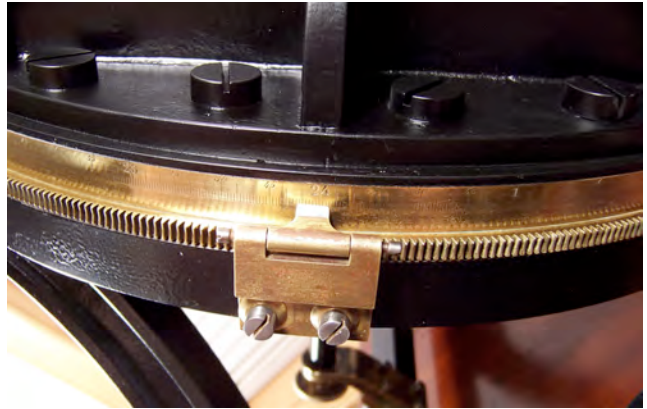


In Uruguay before shipment



After restoration

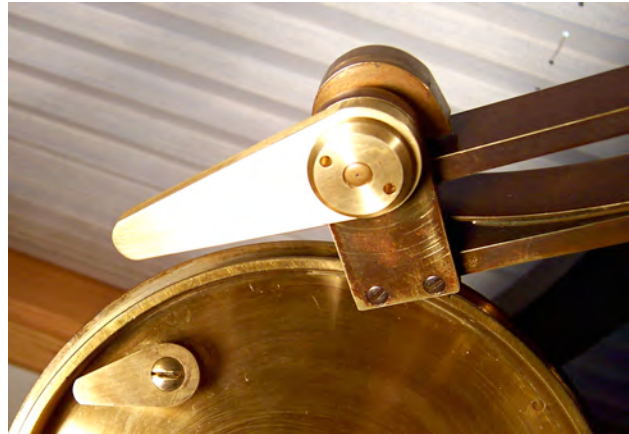
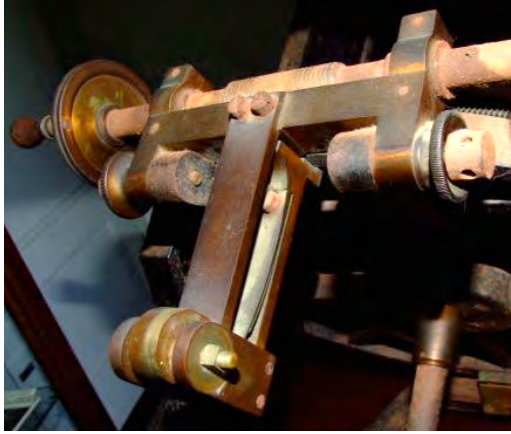
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Before

After

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Replaced missing lever and keeper nut (twist tab on main tube lid was used for designing shape of lever)



Replaced missing eyepiece in finder scope

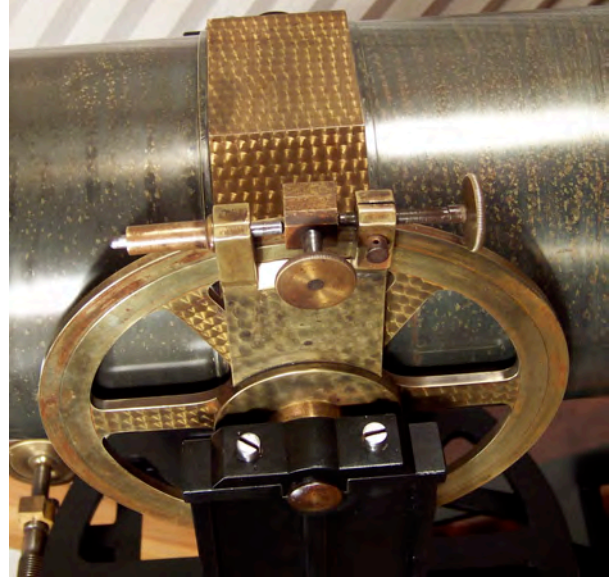


Straightened, cleaned and repainted with black satin enamel

Before

After

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Declination adjuster and setting circle



Before

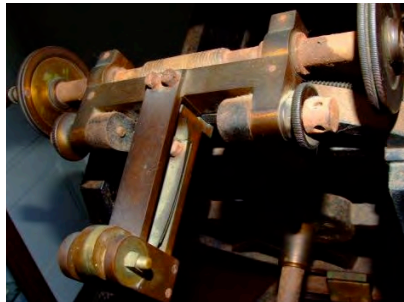


After

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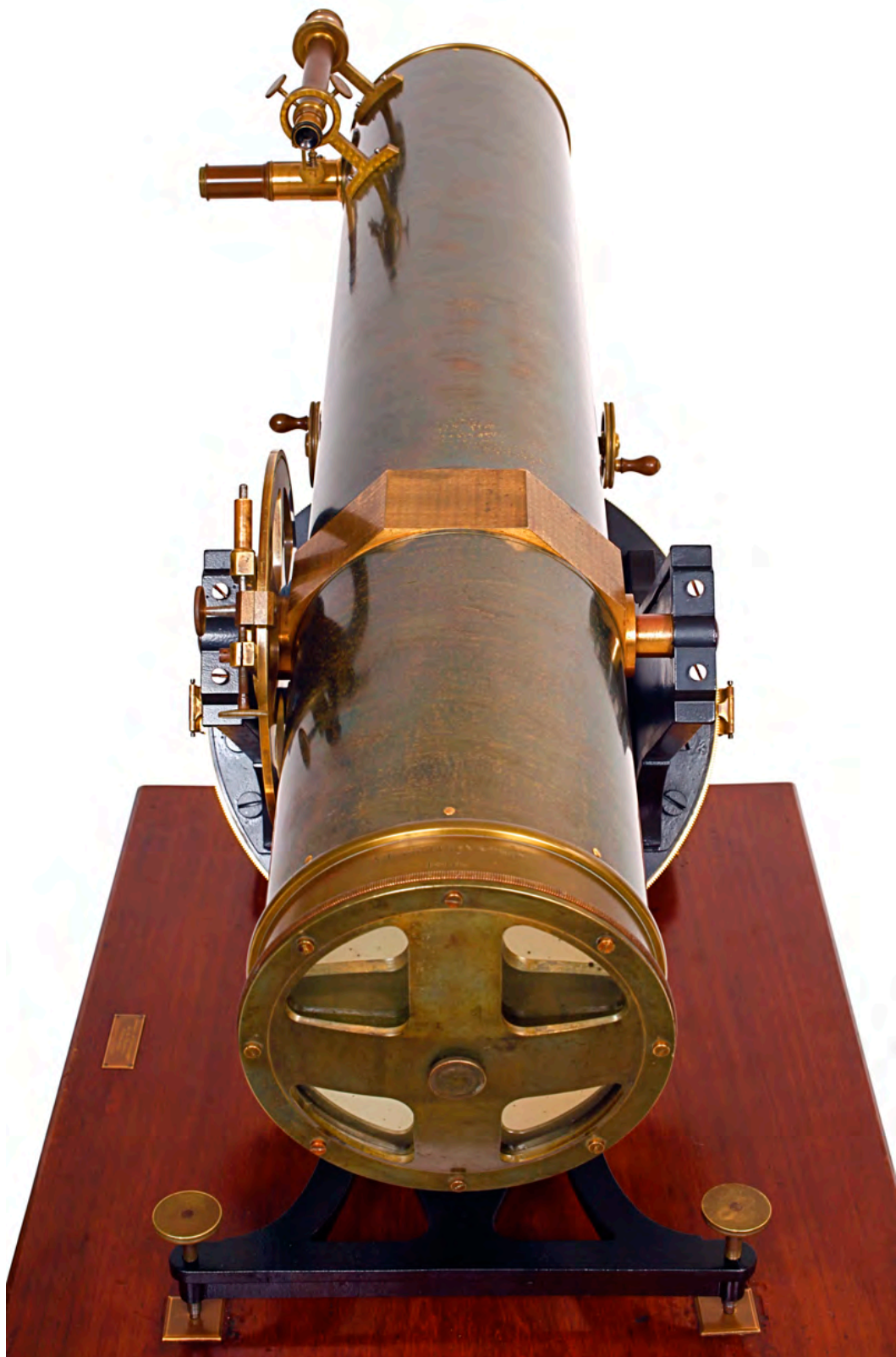


Restored



Rescued from heavy corrosion and non-functionality

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TRE17 150-mm Secretan No. 18 Newtonian Reflector, 1866