## **Troubleshooting a Orion AccuFocus electronic telescope focuser**

Matthias Bopp, December 18th 2010

A friend of mine had experienced problems with his Orion AccuFocus unit and I offered help. He sent the handcontroller to me and I found out that the potentiometer, which determines the speed of the focus motor was no longer operating properly. As I did not find the exact replacement potentiometer I inserted a slightly different version and as I already had opened and inspected the unit thought I will document the schematic and inside of the focuser in case anyone else might need this information in the future.



Here is a short description of the Orion AccuFocus Electronic Telescope Focuser:

•Use the pushbutton hand controller for smooth, precise focusing without vibration

- •Choose speeds from coarse to very fine
- •Powered by one 9-volt battery (included)
- •Also includes bracket, hardware, and coil cable
- •DC motor installs easily and works with many telescopes:

•Orion SkyQuest Dobsonian telescopes (except the Orion SkyQuest XT4.5 Classic Dobsonian Telescope)

•Orion SkyView Pro telescopes (except for Maksutov-Cassegrain and Schmidt-Cassegrain telescopes) •All Orion AstroView telescopes

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•Orion Atlas 8 and Orion Atlas 10 Reflector telescopes

•Orion Explorer 80 and 90 Refractor telescopes •Orion ShortTube 80 Refractor telescope

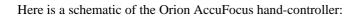
•Orion StarSeeker 80 and StarSeeker 100 Refractor Telescopes

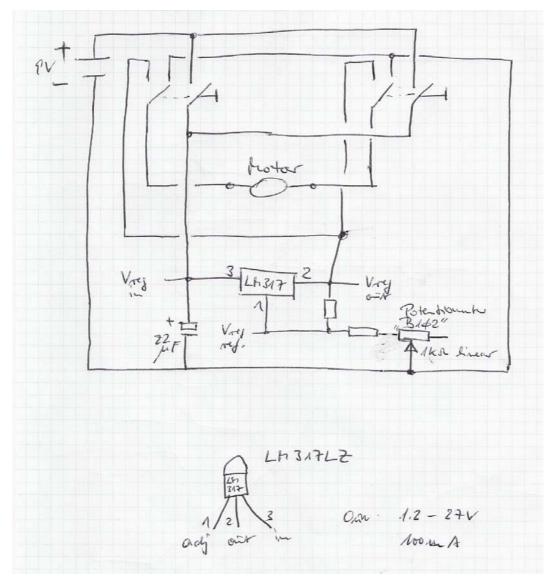
•Orion 80mm ED Refractor telescope

•Orion 100mm ED Refractor telescope

•Orion 120mm ED Refractor telescope







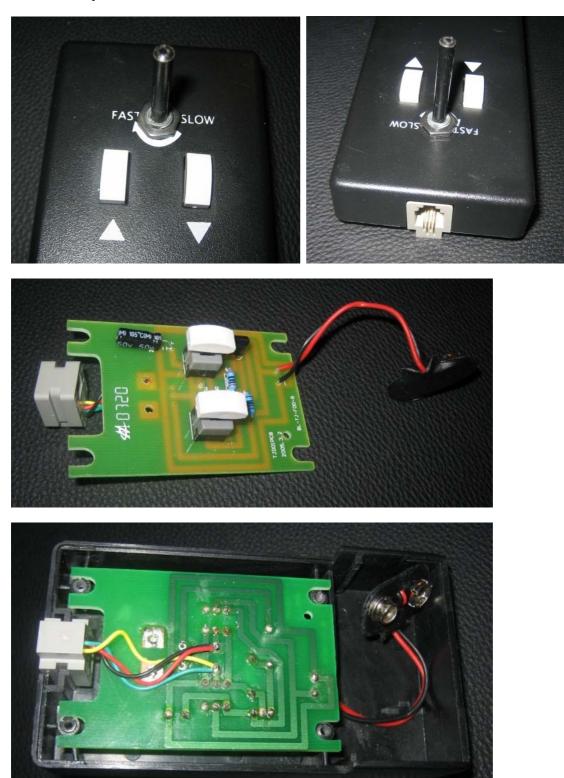


Defective potentiometer (1kOhm, linear)



Replaced potentiometer (1kOhm, linear)

Here are some pictures of the hand-controller:



If you have any questions please feel free to contact me at dd1us(at)amsat.org.

Best regards

Matthias

www.dd1us.de