

KIS Nose-Wheel Assembly

Taken from KIS4 – N819PR (4/28/2013)

Complete Nose Wheel Assembly



By: Galin Hernandez
puertoricoflyer@gmail.com
www.puertoricoflyer.com
For reference only.

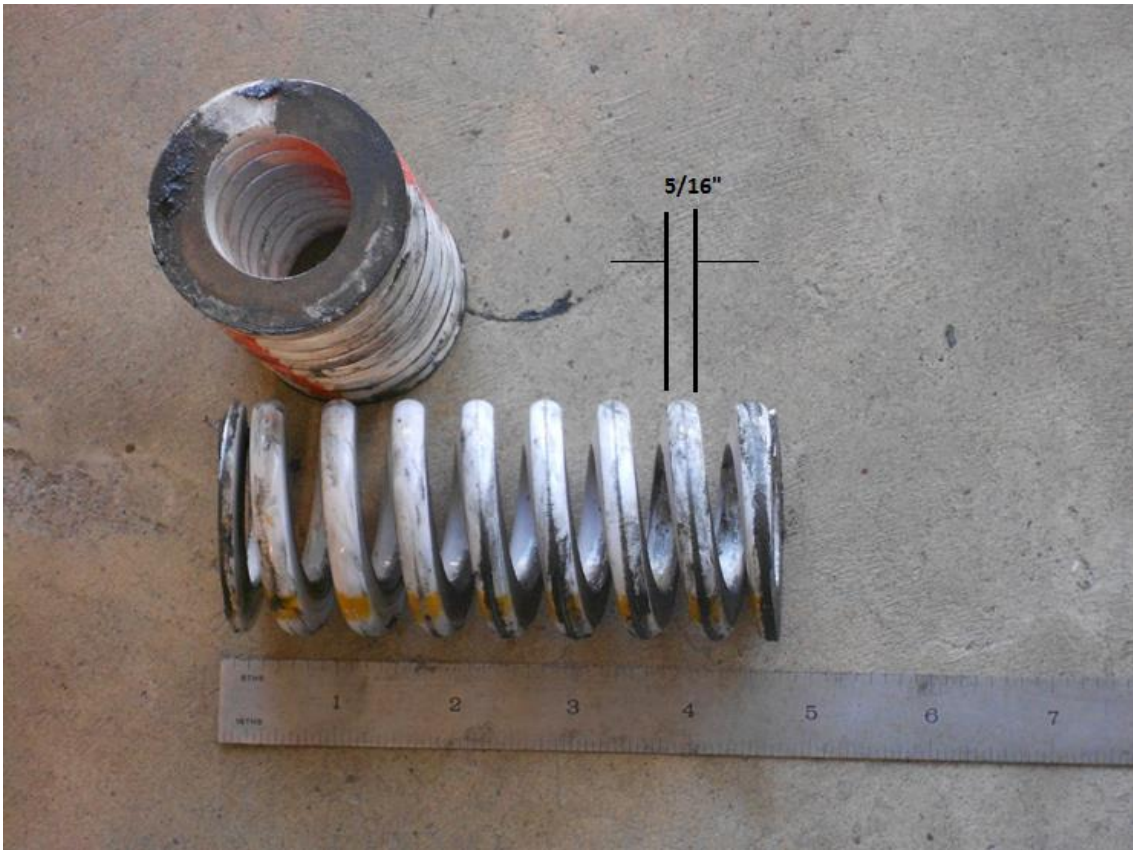
Disassembled Nose Wheel Assembly



How the parts go together inside the nose-wheel assembly. The bright "chrome" part is the top of the assembly.

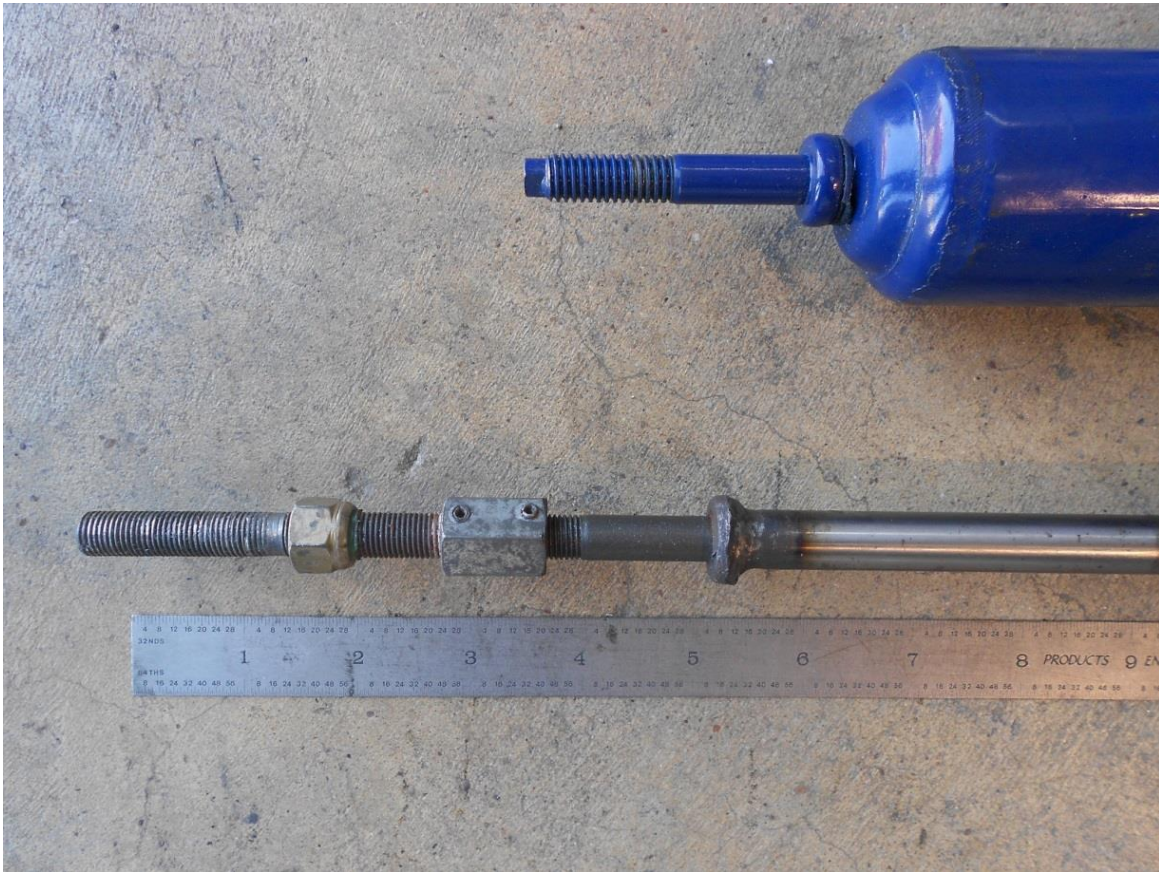
The top of the old shock absorber has the "dust cover" cut off and a 3/8" dia. lengthening adaptor threaded rod is affixed to it. The shock absorber measures a total of 25" long from the top of the lengthening adaptor threaded rod to the bottom of the shock absorber threaded rod. Two 4-1/2" steel springs are inserted as spacers where the dust cover would have been. NOTE: The blue new replacement shock absorber (Monroe-Matic Plus 31069) does NOT have its dust cover removed in the picture.

Steel Springs Measurements



Each steel spring is 4- $\frac{1}{2}$ " long and 1- $\frac{15}{16}$ " in diameter made of $\frac{5}{16}$ " thick steel.

Top of the Shock Absorber (Monroe-Matic Plus 31069)



NOTE: The blue replacement shock absorber does NOT have the dust cover removed in the pictures.



The 3/8" dia. lengthening adaptor threaded rod is shown in detail in the previous photos. The nut provides a stop to help prevent it being over tightened during installation. A rubber grommet is placed there to prevent a metal to metal connection which winds up inside the assembly.



The top of the threaded rod extender needs to have a screwdriver slot cut in to it in order to adjust it during installation.

Bottom of the Shock Absorber (Monroe-Matic Plus 31069)



There is a rubber grommet on the bottom of the shock absorber inside the assembly and on the bottom of the entire assembly as seen in the above photos.

Shock Absorber inside the assembly.



There is a thick piece of rubber or polyurethane between the outside top of the assembly and the firewall mounting bracket, as seen in the above photo, to help diminish forward/rear torque forces during landings. There is a rubber grommet on top of the firewall mounting bracket. I installed a hard plastic bushing inside the aluminum mounting bracket to prevent the lengthening adaptor threaded rod from cutting in to the bracket during landings.



The rubber grommets supplied with the replacement shock absorber were too thick for my particular installation. I would up using a thinner ones (90948-01003 GR4) inside the assembly as seen in the above photo.