

M-Drive Replacement

Remove Access Hole Plug & Push RazorGage Carriage VERY slowly until you see the set screw through the hole. Loosen the set screw slightly.



Remove the four screws holding the MDrive Motor to the gearhead and remove the MDrive Motor.

Look inside the gearhead to make sure the sleeve is in place and that the slot in the sleeve is not lined up with the set screw you loosened in step 1. If it is, rotate it inside the bore so that the slot is not aligned with the set screw.





Now that you have installed the MDrive, start up the RazorGage software. When the software starts up it will detect that there is no program installed in the MDrive and display the screen at right:

Press the "Erase the M-Drive Program" button.



On older RazorGages you may be asked to browse to find the folder in which the programs are stored. If that is the case, browse to C:\Program Files\RazorGage. Most RazorGages, however will automatically find the install folder and you will see a list of programs to install. Below are two examples of the choices you will encounter depending on the version of your software:



After the program is loaded into the MDrive, the following screens will appear.



At this point the machine should go through the Homing process. You're done with the software portion of the installation. Now proceed to the next page to check the indexing.

From the main screen press the SETUP SCREEN button in the upper right corner.

On the SETUP SCREEN near the lower left corner there is a button labeled HOME THE POSITIONER. Press that button to home the RazorGage.



If the RazorGage is homing in the same place every time when homing begins from the position the carriage is in after completing the Homing sequence, the next step is to move the RazorGage carriage to a position at least 24" away and start the Homing sequence from there. Home the RazorGage 10 times with the homing sequence starting from a position at least 24" away from the final Home position. After each Homing sequence check to make sure the moving carriage bar is perfectly aligned with the mark you made earlier. To move the RazorGage carriage after homing is complete, go back to the Main Screen, enter a number such as 24 as a Target Position and press Enter. Then press the Setup Screen button and press Home the RazorGage. If the RazorGage homes in EXACTLY the same place every time whether homing from close or far then you're finished and can begin using the machine. If the stop did not go to the same place every time, continue to the next page.

If the moving carriage did not return to the same spot each time after homing, then either the gearbox input shaft coupling is slipping and you need to tighten the set screw more or the motor is very near the home marker when the carriage hits the hard stop. Home the Razorgage one more time but this time notice how far the carriage moves back once it has hit the hard stop. If that distance is around 5/16" then all that needs to be done is to tighten the gearbox set screw tigher. If the distance is less than 1/4" then we should run the Indexing routine. CLOSE THE RAZORGAGE SOFTWARE, then use Windows to navigate to C:\Program Files\ RGST\. Then double click on the file named IndexLocator.exe and precisely follow the instructions indicated in the software.

