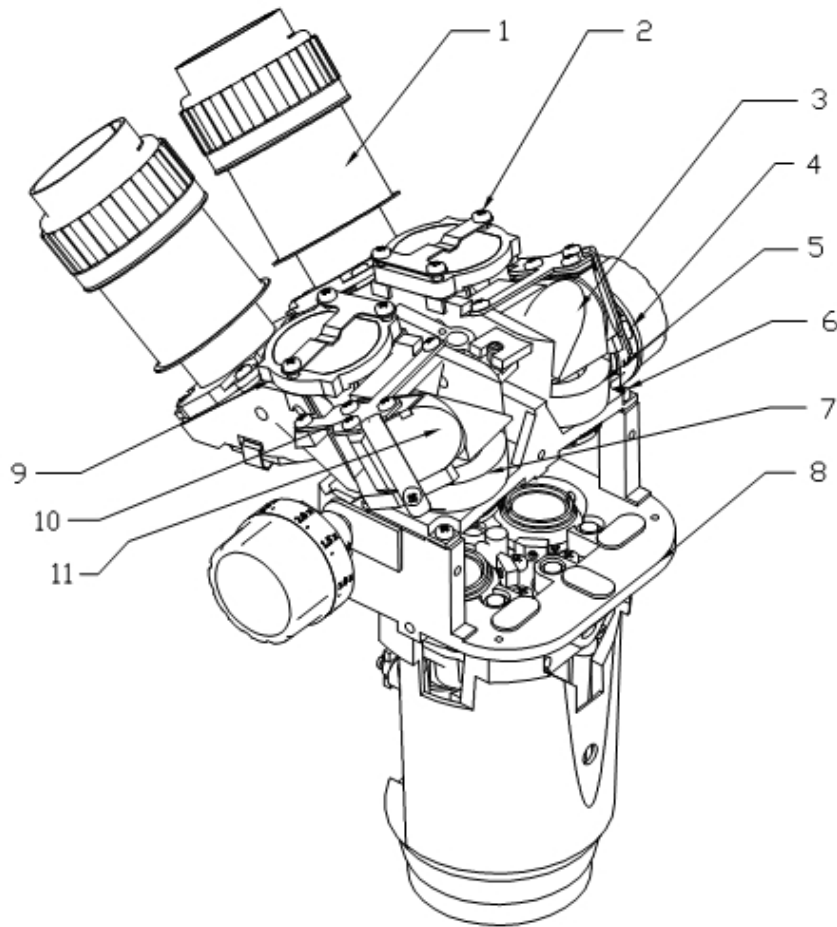


Planar Displacement Calibration Procedure

(Note: Refer to Calibration 1 diagram for part numbers)



1. Install a 10x eyepiece with a gridded reticle eyepiece into the ocular ports.
2. Adjust focus until the grid reticle come in-focus with the crosshair board.
3. Position both the grid reticle and the crosshair board so that they are superimposing each other.
4. Pull on both multiple prism stand (Part 2&4) to inspect the track to half circle (Fig.1-1).
5. Move the crosshair board so that the O and O'' are superimposed.
6. Adjust (Part 2&4) so that the position of Dot O on the gridded stage does not change.
7. Loosen both multiple prism screws (Part 11).
8. Move (Part 6&7) from the base of (Part 2&4), until the (O) and (O'') are superimposed.
9. Adjusted (Part 2&4) before the (O) on the crosshair board change.
10. Tighten (Part 10)
11. Pull on (Part 2&4), if the origin of the crosshair board and grid reticle does not change. You are done with calibration.
12. Replace the gridded reticle eyepiece with a 10x eyepiece to see whether there are shadows in the field of view. If shadows accrue, adjust the viewfinder stand (Part 9) and repeat the above steps.

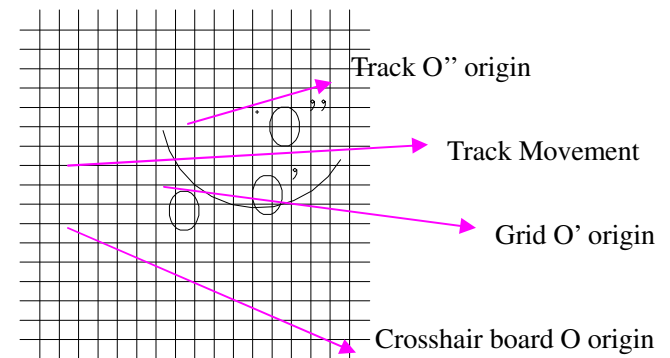


Figure 1-1

Part #	Description	6	Left Multiple Prism Stand
1	Calibration Tool	7	Right Multiple Prism Stand
2	Right Multiple Prism Stand	8	Crosshair Trough Screw
3	Cross Hair Trough Screw	9	Eyepiece
4	Left multiple prism stand	10	Viewfinder Stand
5	Cross Hair Trough Screw	11	Crosshair Trough Screw

Snap to focus (Note: Refer to calibration 2 diagram for part numbers)

1. Install a 10X gridded eyepiece into the ocular ports.
2. Turn the diopters adjustment to zero.
3. Turn the magnification to its highest setting.
4. Loosen (Part 3), use horologe-up tool to circumrotate (Part 4) until the crosshair image on the board is clear.
5. Tighten (Part 3) and the other side.
6. Turn the magnification to its lowest settings.
7. Loosen (Part 5)
8. Use a horologe-up tool to circumrotate (Part 6) until the crosshair image on the board is focus clearly.
9. Tighten (Part 5) and do the same for the other side.

Center Displacement and Integrate Image (Note: Refer to calibration 2 diagram for part numbers)

1. After focusing, adjust the magnification of the continuous objective to highest and lowest range, while maintaining position to the origin of the crosshair board on the gridded eyepiece as shown in (Fig.2-1)
2. Loosen (Part 1) when adjusting the magnification of the continuous objective to the highest range.
3. Use a short horologe-up tool to pull (part 2) so that the dot O of the crosshair board and the dot O' of the gridded eyepiece will be superimposed.
4. Turn the magnification of the continuous objective to the lowest range.
5. Use the long horologe-up tool to adjust the three screws on (Part 7).
6. Now you have to adjust (Part 8) so that dot O on the crosshair board and the dot O' of the gridded eyepiece will be superimposed.
 1. You have to loosen one screw and then tighten the other two or vice versa.
 2. Tighten all three screws.
 3. Now you are able to move (Part 8).
7. Turn the magnification of the continuous objective to the highest range until the dot O of the crosshair board and the dot O' of the gridded eyepiece are superimposed as shown in (Fig.2-2).
8. Retighten (Part 1).
9. Repeat these steps to adjust the other side.

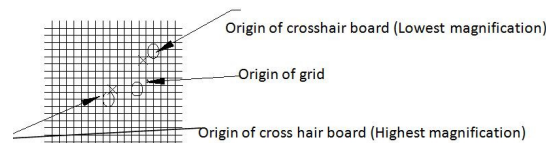
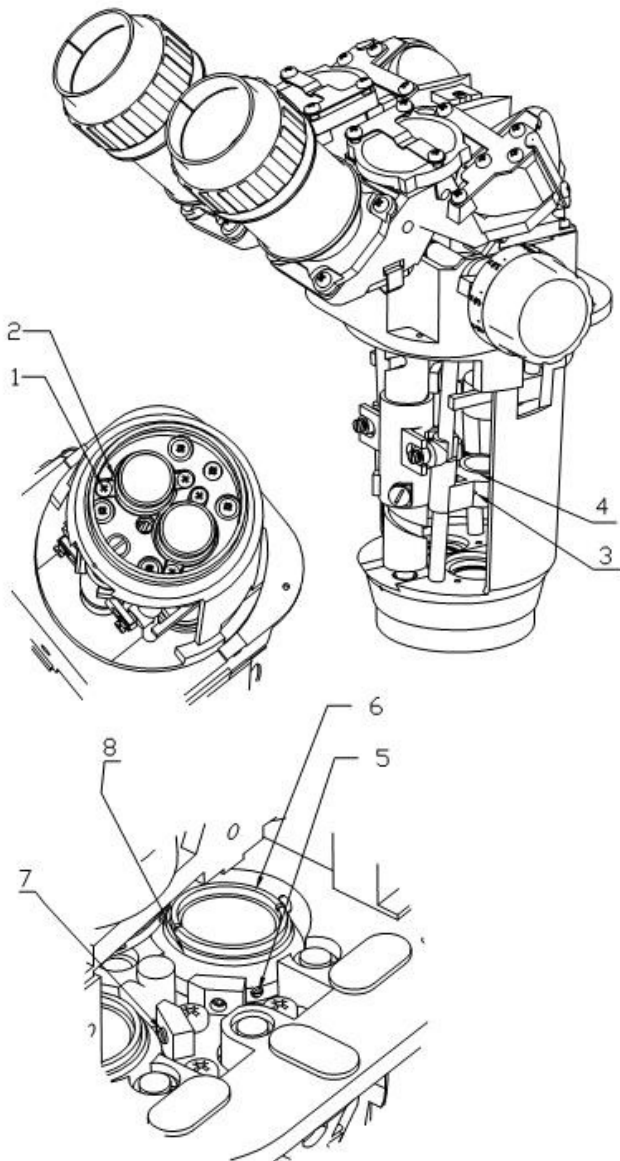


Figure 2-1

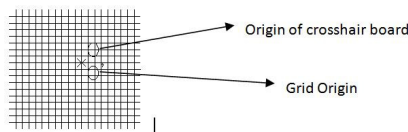


Figure 2-2

Part #	Description
1	Crosshair Trough Screw
2	Front Objectives
3	Opening Trough Screw
4	Lens Stand
5	Opening Trough Screw
6	Back Objective Stand
7	Opening trough Screw
8	Back Objectives

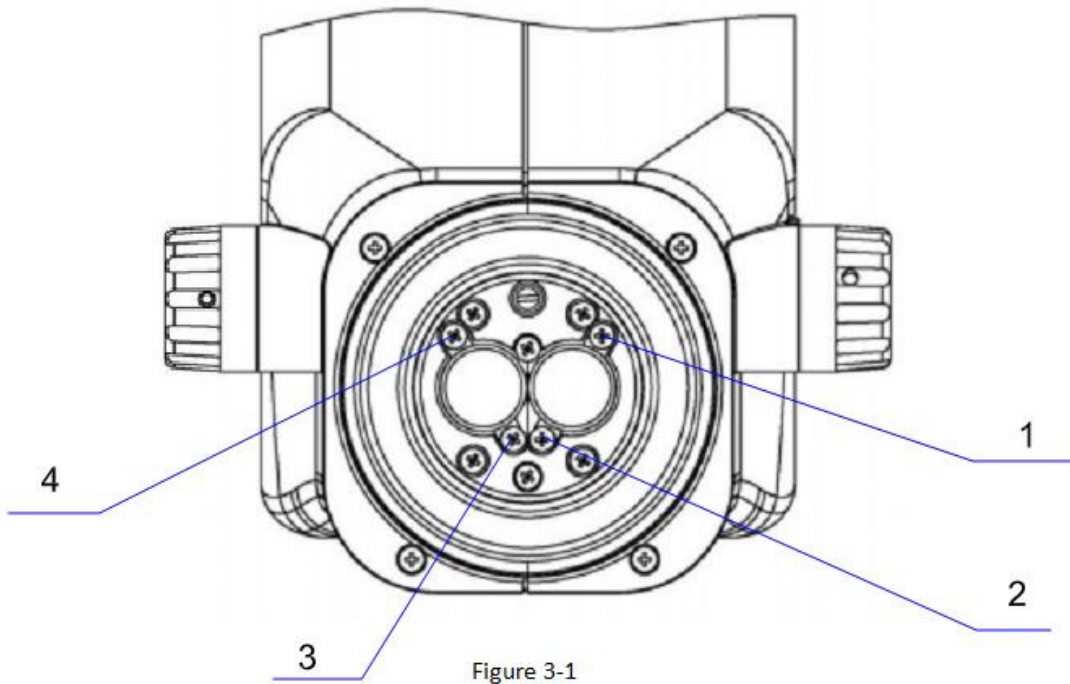


Figure 3-1

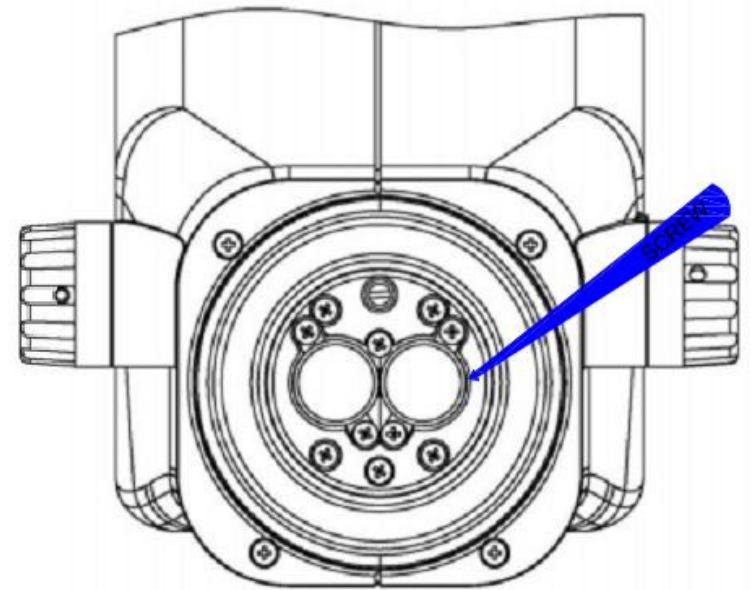


Figure 3-2

As seen in (Fig.3-1), there are 4 screws, numbered 1, 2, 3, and 4.

Step 1:

Loosen either screws (1 & 2) or (3 & 4), but not both.

Step 2:

Position a flat head screw driver between the continuous objective and the fixing stand as shown in (Fig.3-2). Adjust it until the center of the crosshair is superimposed.

Step 3:

Tighten the two screws you loosen before. Make sure the crosshairs are still superimposed before removing the screwdriver.