

THE FUNDAMENTALS OF Accurate shooting

6

Characteristics of Shooting



Inaccurate and inconsistent



Good grouping but inaccurate sight alignment



Accurate and consistent i.e. good grouping and accurate sight alignment



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During **precision shooting** where the distance is 50m, a 1mm shift in the position of the front sight will result in a shift of approximately 12.5cm in the position of the centre of a group of shots on the target.

Factors that cause inaccurate aiming

- selection of the aiming point/area
- inaccurate alignment of the front and rear sight
- lack of preparation for and execution of the shot
- poor quality of the pistol or ammunition
- lighting or weather conditions

Group Adjustment

By making correct sight adjustments the shooter is able to place shots in the centre of the target. Proper group adjustment influences competition scores. To determine how to make correct adjustments it is necessary to identify how many clicks are required to move the shot from one ring to another e.g. from the edge of the 8 point scoring area to the edge of the 9 point scoring area.

Shoot a group of say 10 – 15 shots and make the adjustment in a horizontal or vertical direction for 20 – 30 clicks. Shoot another group of shots, measure the distance between the centre of each group and divide by the number of clicks you have made. This will give the exact measure for one click of adjustment. Compare this value with the measure provided in your pistol manual.

The method for finding the centre of three, four, five or more shot groups is shown below.

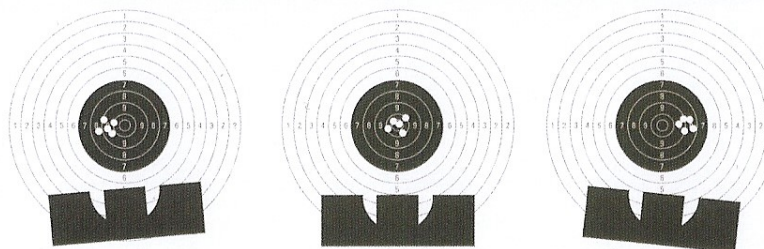


3 Shots

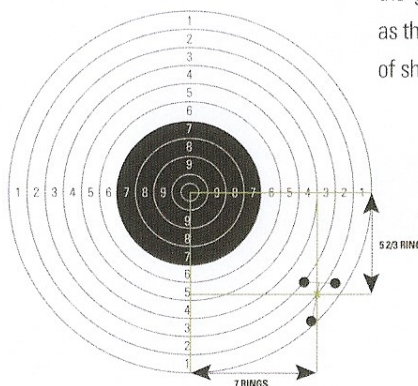
4 Shots

5 Shots

Determining the centre of a group of shots

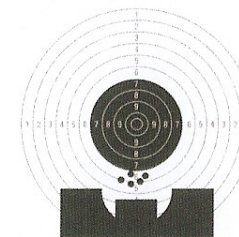


Movement of the pistol that causes the front sight and rear sight to no longer be parallel to the ground will affect shot grouping as well as the distance between the centre of a group of shots and the centre of the target.

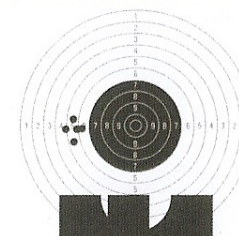


Correct front sight/rear sight picture

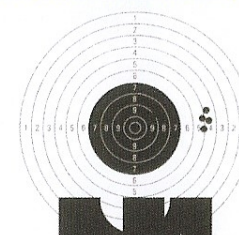
Aiming Errors



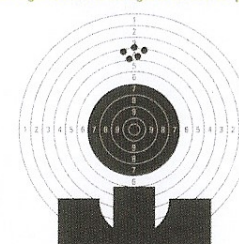
Front sight below correct position in relation to rear sight



Front sight located to the left of the correct position



Front sight located to the right of the correct position



Front sight above correct position in relation to rear sight