



# Marksmanship Master Trainer Course



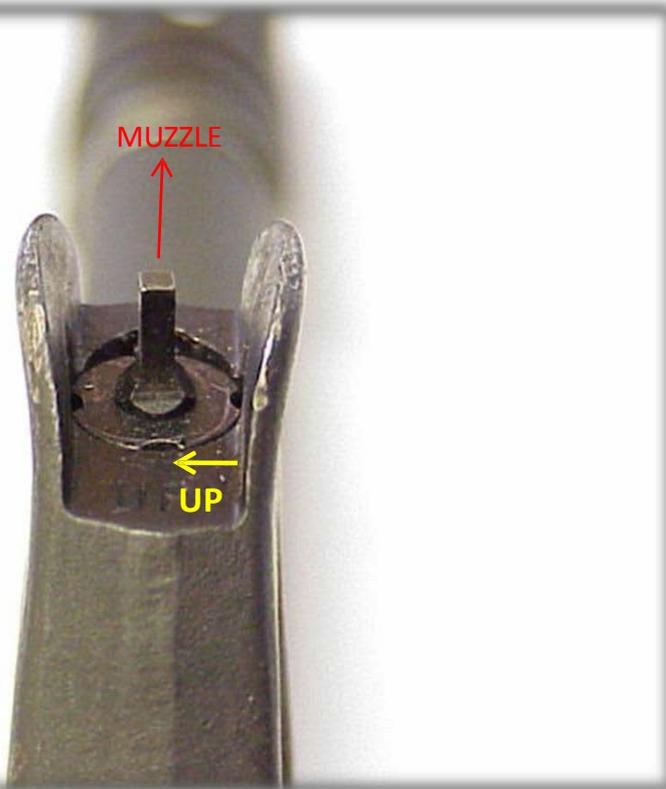
# Sights for M16 and M4 weapons systems



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## Front Sight Post



### Elevation

M16 A2 - 1 click=1 ¼ MOA

M4 - 1 click=2 MOA

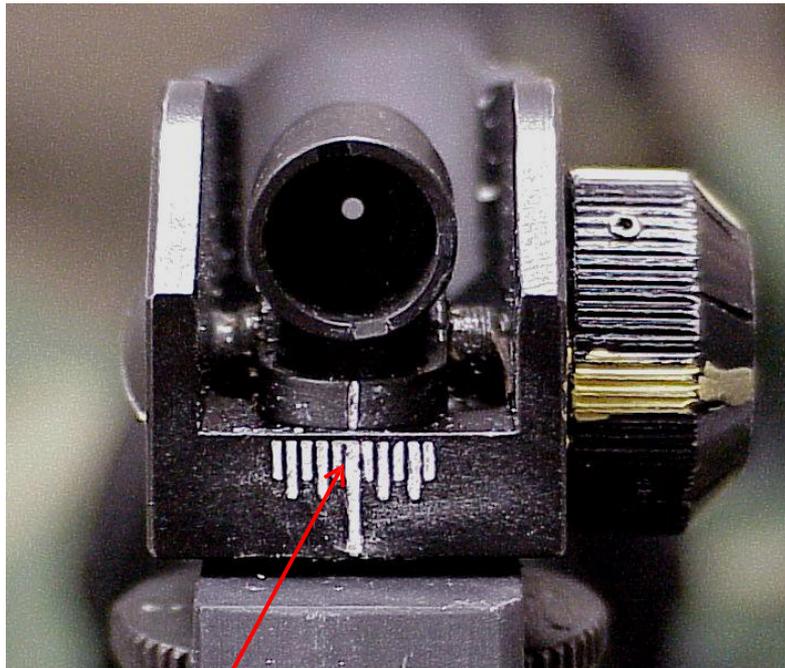
- When zeroing, adjust elevation with the front sight post and make windage adjustments with the rear sight
- The arrow that is stamped on the front sight housing, is indicating the direction of your impact downrange.



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## Carrying Handle



Windage 1/2  
MOA (Currently  
set at  
"mechanical zero"



R arrow moves bullet impact  
(Clockwise). Shooter has used  
paint marker to label zero



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## BUIS



**300m zero at 25m (BDC setting)**

- **M16A4 use white line for zeroing**
- **M4 use 300 setting**
- **Point of aim / point of impact zero at 25m**

### Windage

**M16A4- 1 click=1/2 MOA**

**M4- 1 click=3/4 MOA**



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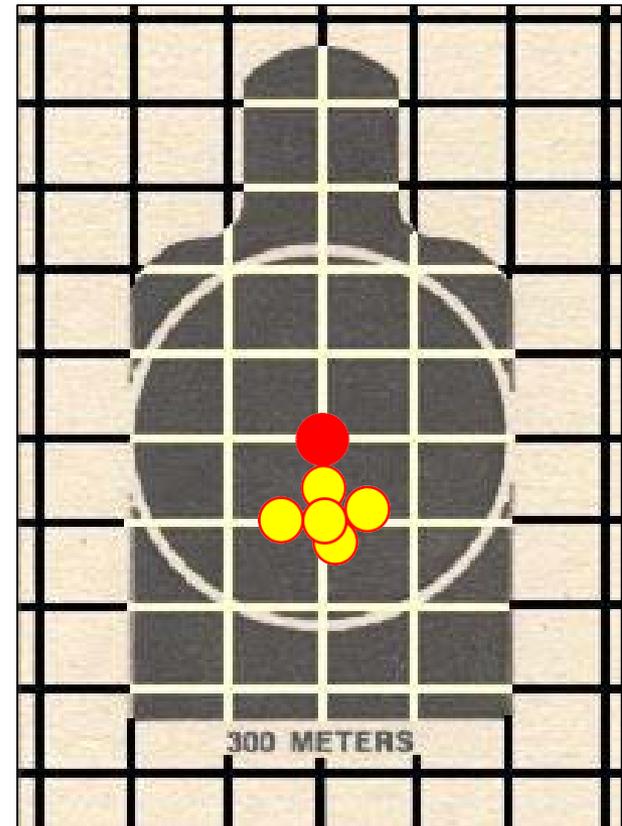
## M68



**Non-magnified**

**300m zero offset = approx. 1cm low at 25m**

**Always confirm optic zero at actual distance (300m)**



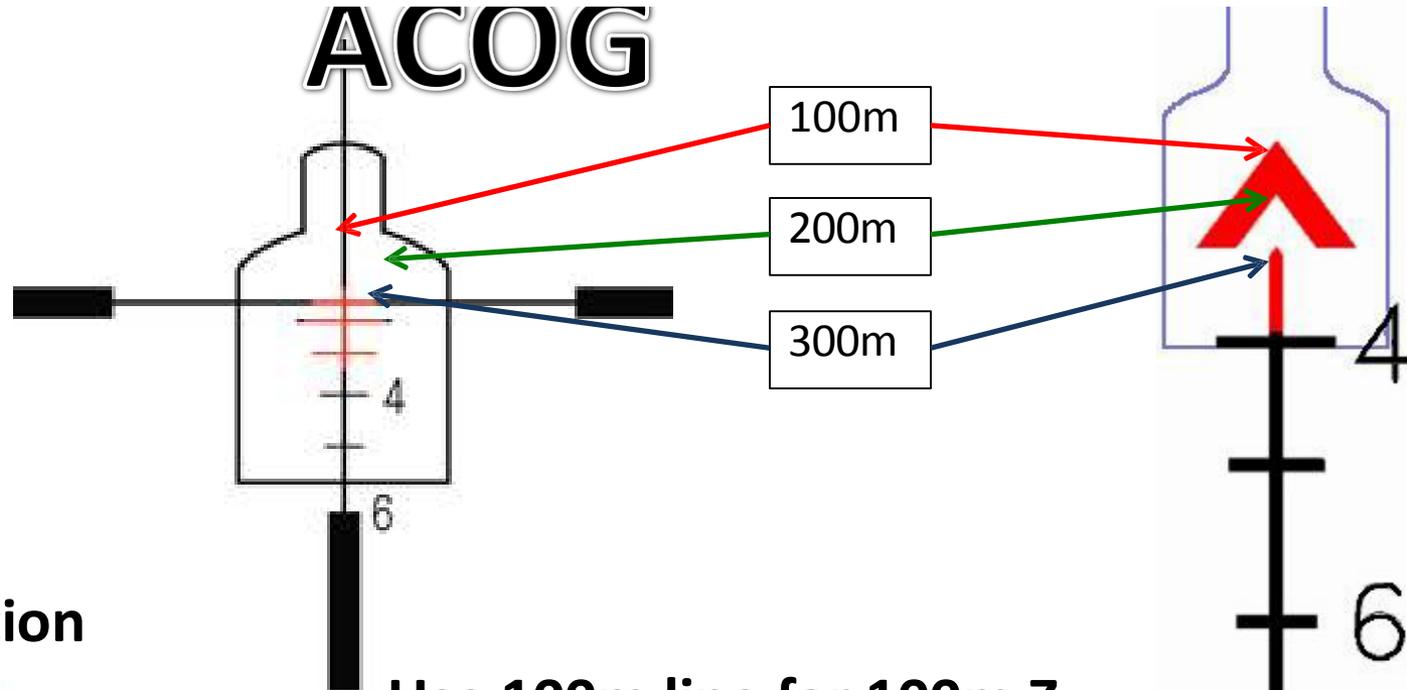
**1 click=1/2 MOA**



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## ACOG



4x magnification



Use 100m line for 100m Z  
Use 300m line for 25m Z  
(POI = approx. 1 cm LOW)

1 click = 1/3 MOA (internal knob)  
1 click = 1/2 MOA (external knob)

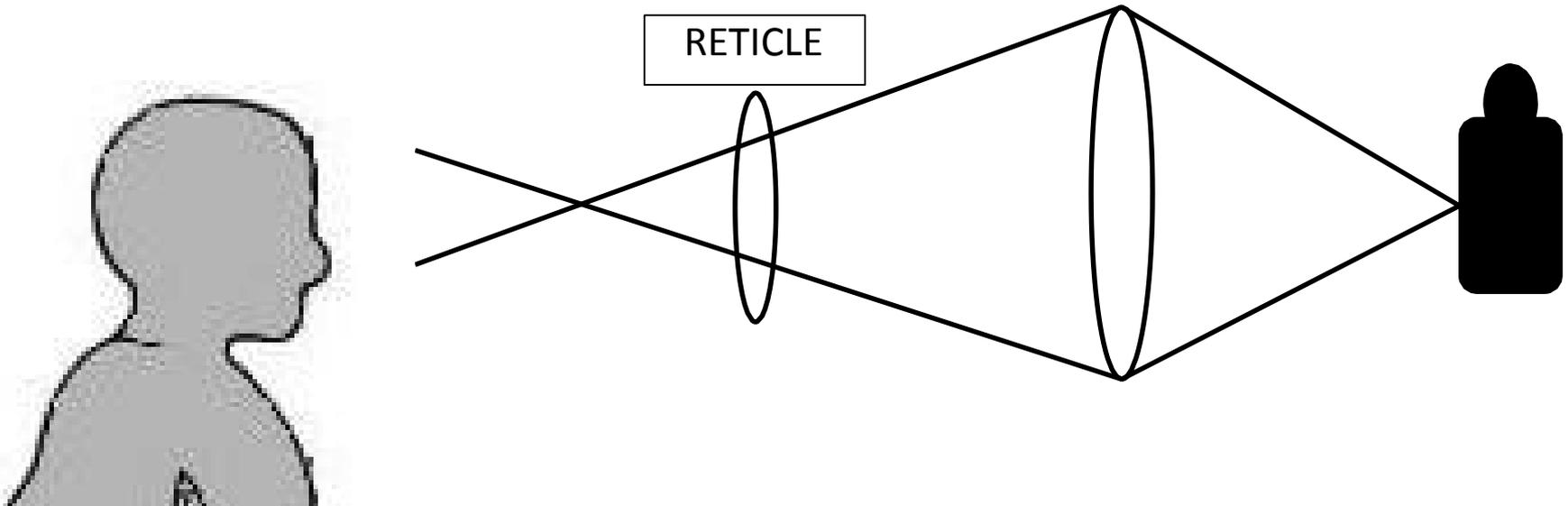


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## Parallax

➤ Parallax in a rifle scope is the apparent movement, or displacement of objects when viewed from different perspectives



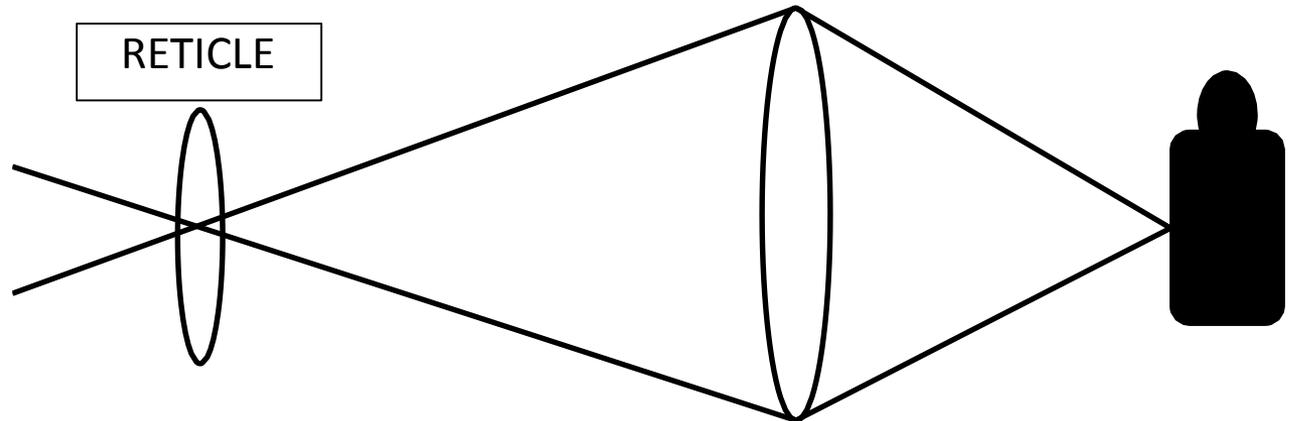
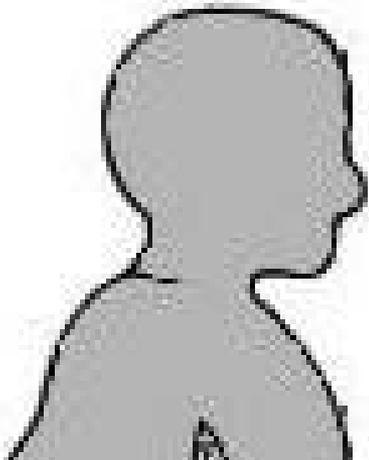


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## Parallax

- Adjusting the parallax knob on the left side of the scope will bring the target and the reticle on the same focal plane
- The appropriate adjustments cannot always be made in the heat of combat. This is why consistent head position is important



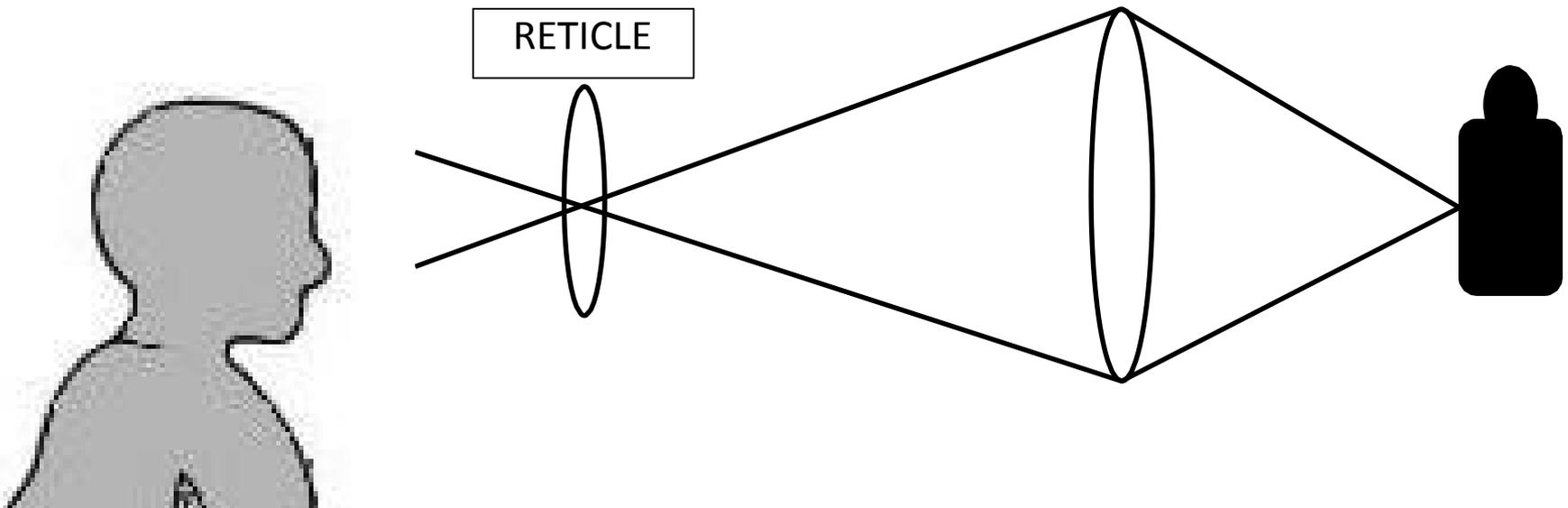


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## Parallax

- When parallax is adjusted properly the reticle and the target should not move independently





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## Eye Relief

- Your eye should be positioned to see the full field of view of the eyepiece
- Scopes/optics should be mounted to provide the best eye relief in all shooting positions, and magnifications



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## Scopes

**A scope does not improve the shooter's fundamentals of marksmanship**

A scope can help with....

- Target ID
- Reading wind and seeing wind indicators
- Confirming reduction of target
- Range estimation
- Compensating for wind

A scope does not reduce the importance of...

- Sight alignment
- Trigger control
- Body position
- Follow through
- Natural Point of aim



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PCI – always make sure sight systems  
are secure





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QUESTIONS?