

PRISMATIC COMPASS



INTRODUCTION

- ❖ COMAPSS DEGREE PADNE KE KAM AATE HAIN AUR MAGNETIC NORTH AUR BAKI DISHA KO SUCHIT KARTE HAIN
- ❖ PRISMATIC COMPASS DISHA KO DUNDNE AUR PHIR USKO MAINTAIN KARNE MEIN MADAT KARTA HAI.
- ❖ PRISMATIC COMPASS ACCURATE HOTE HAIN LEKIN JAHAN PAR IRON KA ASAR JADA HO WAHAN KAAM NAHIN KARRTE.
- ❖ MAGNETIC COMPASS EK BATAI HUI DISHA YAH ZAMINI NISHAN KI KI DEGREE BATATE HAI.
- ❖ THERE ARE TWO TYPES OF PRISMATIC COMPASSES. THE DRY AND THE LIQUID.

PREVIEW

UDDESH

PART - I COMPASS KE BHAG

 PART - II COMPASS KO SET KARNA AUR BEARING LENA

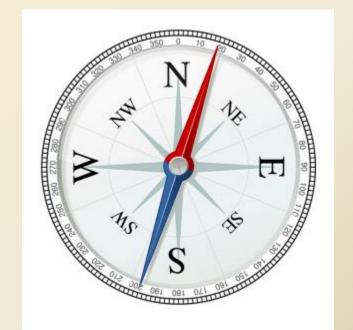
PART - III COMPASS ERROR.

PART – IV GPS

CONCLUSION

UDDESH

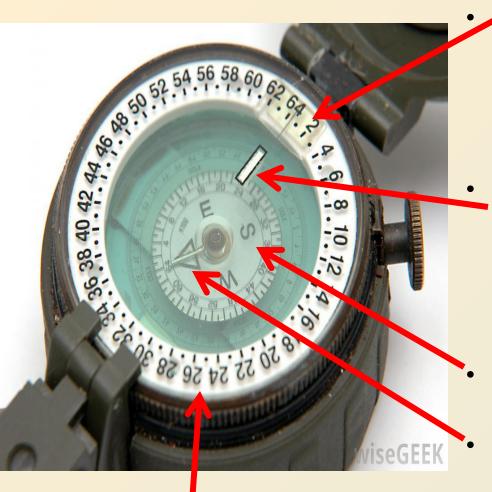
PRISMATIC COMPASS AUR GPS KE BARE MEIN JANKARI DENA



PART - I

COMPASS KE BHAG

COMPASS KE BHAG



LUBBER LINE. COMPASS PAR BEARING KO SET KARNE KE KAM AATA HAI. YEAH CHAKILE LUMINOUS PAINT KA HOTA HAI AUR HINGE KE PASS HOTA HAI.

DIRECTION MARK. MILLED VANE PAR EK RECTANGULAR MARK. COMPASS KE SAATH NAVIGATION KARNE KE KAM AATA HAI.

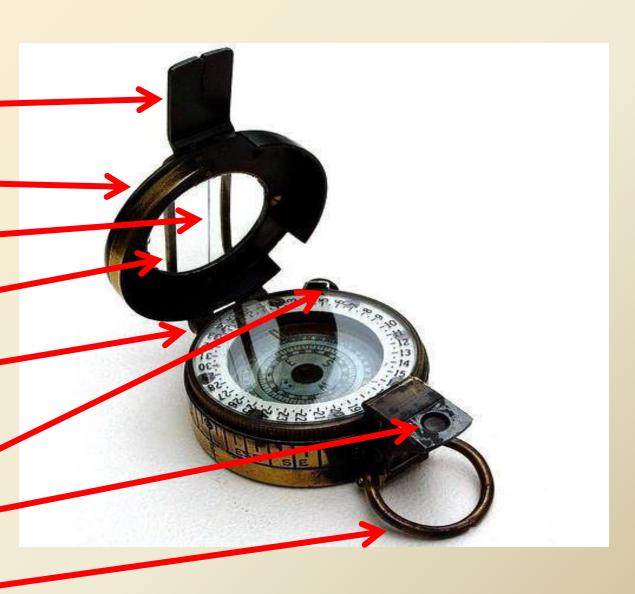
DISHAYEN. N,S,W,E.

ARROW HEAD. HAR SAMAY NORTH KI TARAF.

MILLED VANE. IS PAR HAR 5 DEGREE PAR MARKING HOTA HAI. MARKING 360 DEGREE TAK YANI PURE CIRCLE KA HOTA HAI. HAR READING KA "0" NAHIN LIKHA JATA ---MATLAB 330 DEGREE "33" SE DARSHAYA JATA HAI.

COMPASS KE BHAG

- · TONGUE.
- LID. -
- HAIR LINE.
- WINDOW
- HINGE.
- CLAMPING SCREW
- FOLDING PRISM
- THUMB RING.

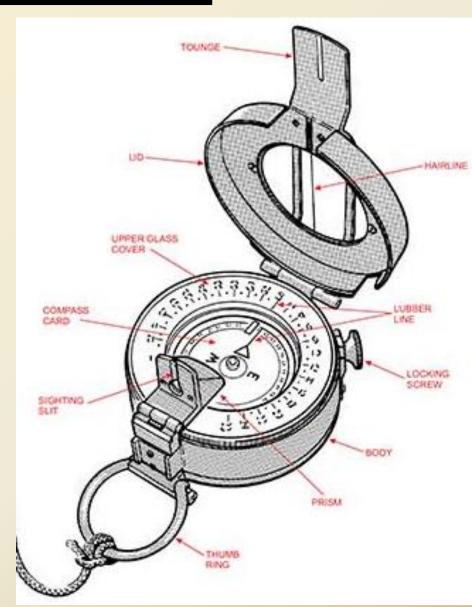


PART-II

COMPASS SE BEARING LENA AUR SET KARNA

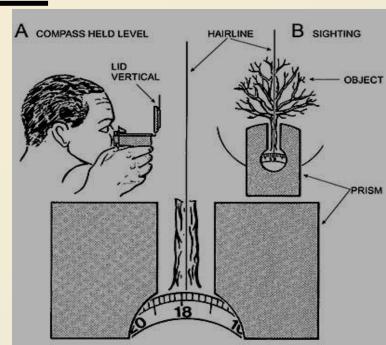
COMPASS SE BEARING LENA AUR SET KARNA

- LID KO KHOLE TAKI WHO BODY KE RIGHT ANGLES HO.
- FOLDING PRISM KO PUSH KAREN TAKI MILLED VANE SE MIL JAYE
- APNA THUMB THUMB RING MEIN DALLE AUR FOREFINGER COMPASS KE NICCHE RAKHE AUR SAMANTAR RAKHE.



COMPASS SE BEARING LENA AUR SET KARNA

- PRISM KO AANKH KE PASS LAYEN.
- AB SLOT KE BICH SE DIKHEGA.
- PRISM KI MADAT SE FLOATING CARD PAR READING DIKHAI DENGI.
- TONGUE KE SLOT KO OBJECT PAR RAKHE.
- AB DHYAN SE PRISM SE DEKHE, JAHAN HAIRLINE KA NICHLA HISSA SE PRISM PAR JO READING DIKTI HAI WHO US OBJECT KI BEARING HAI.



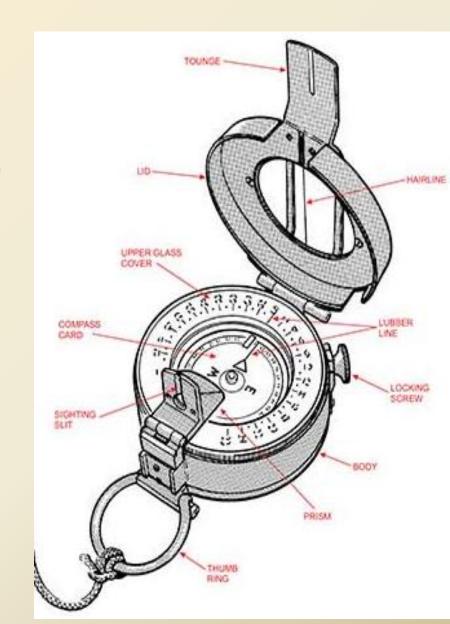


SETTING THE COMPASS

- KABHI AAP KO HOW SAKTA HAI KI AA KO OBJECT NA DIKHE AUR APP KO USKE PASS JUNGLE MEIN SE YAH RAAT KO JANA HO.
- AEESE MEIN HUM APNI MAUJUDA POSITION SE MAP PAR OBJECT KA BEARING LETE HAIN.
- IS MAP KI BEARING KO HUM MAGNETIC BEARING MEIN CONVERT KARENGE.
- IS MAGENTIC BEARING KO HUM COMPASS PAR SET KARTE HAIN.
- MANLO MB HAI 240 DEGREE

SETTING THE COMPASS

- AB CLAMPING SCREW KO DHILA KAREN
- MILLED VANE KO GHUMAYEN TAKI
 24 (YANI 240 DEGREE) "LUBBER
 LINE" PAR AAJAYE.
- CLAMPING SCREW KO TIGHT KARO.
- AB COMPASS 240 DEGREE KE LIYE SET HAI.
- LID KO KHOLEN AUR COMPASS KO APNE HAATH MEIN SIDHA AKHEN.
- AB DAHINEAN BAYEN GHUMEN JAB TAK KI ARROW HEAD DIRECTION MARK KE SIDH MEIN NA AAJAYE.
- AB APKA MARCH KARNE KA DIRECTION SET HAI.



PART - III

COMPASS ERROR (GALTI)

COMPASS ERROR (GALTI)

LOCAL MAGNETIC ATTRACTION.

- COMPASS KA ACCURACY AAS PASS KE WATVARAN SE PRABHAVIT.
- AGAR AAS PASS LOHA HAI TOH COMPASS KE NEEDLE PAR PHARAK DALE GA. USI PRAKAR AGAR KISSI STHAN PAR ZAMIN MEIN BHI AGAR LOHA HAI TOH USSE BHI PHARAK PAREGS.
- ISLIYE MAPS PAR US JAGEH KA VARIATION LIKHA HOTA HAI JOKI CALCULATE KIYA HOTA HA. YEAH MAP KA VARIATION HAI.
- NICCHE DIYE HUA HAI SAMAN SE DURI RAKNE KA WARNAN

• TANKS - 75YDS

HEAVY GUNS - 60 YDS

TELEPHONE WIRE - 40 YDS

BARBED WIRE - 10 YDS

STEEL HELMET/ RIFLE - 03 YDS

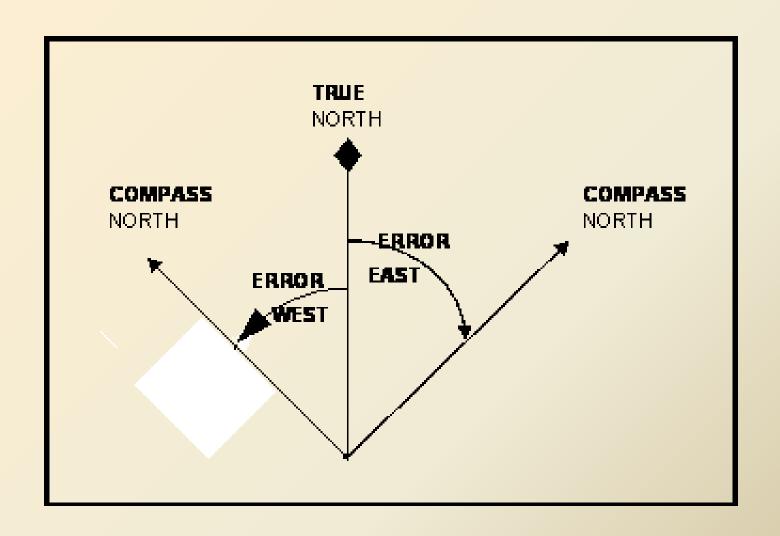
CAP BADGE - 1/2 YDS

COMPASS ERROR (GALTI)

- COMPASS KA BHI KUD KA READING MEIN PHARAK HO SAKTA HAI.
- NEEDLE MAGNETIC NORTH KO NA POINT KARE WHO THORA LEFT-RIGHT POINT KAR SAKTA HAI.
- YEAH COMPASS ERROR HAI
- ISKO PATA KARNE KE LIYE:
 - ZAMIN PAR DO NISHAN DHOONDE JO KI MAP PAR BHI MAJOOD HAIN .
 - INKA GRID BEARING LE
 - MAGNETIC BEARING MEIN TABDIL KAREN.

COMPASS ERROR (GALTI)

- AB COMPASS SE UNHI DONO ZAMINI NSHAN KI BEARING LE.
- AB JO DO MAGNETIC BEARING KA JO FARAK HAI WHO COMPASS EROR HAI.
- ISKO EK-DO AUR NISHAN SE CONFIRM KAREN.
- JAB BHI KISSI ZAMINI NISHAN KI BEARING LIJATI HAI TOH COMPASS ERROR KO BHI DHYAN MEIN RAKHNA HAI.
- COMPASS ERROR KO POSSITIVE(+) OR NEGATIVE(-)
 SIGN SE COMPASS PAR LIKHA JATA HAI. (E.G + 2 WILL BE
 DEDUCTED FROM THE COMPASS READING AND VICE VERSA FOR 2).



PART - IV

GPS

GPS

- GPS EK SYSTEM HAI JOKI SATELLITE AUR RECEIVER KO MIL KAR BANATA HAI.
- GPS KI MADAT SE KOI BHI APNE POSTION SAHI 10 FIGURE GR MEIN NIKAL SAKTA HAI.
- AASMAN MEIN 24 SATELLITE HAIN JO KE ALAG ALAG UUCHAI PAR GHUM RAHI HAIN.
- EK TIME PAR 5-8 SATELLITE ZAMIN KE KISSI BHI JAGAH SE DIKH SAKTI HAIN.
- GPS YEAH KOI YANTAR KO GR NIKALNE KE LIYE KAM SE KAM 3 SATELLITE KI ZARURAT HAI.

GPS

- GPS HAR KOI ISTEMAL KAR SAKTA HAI.
- GPS MOBILE AUR GHADI MEIN BHI HAI.
- GOOGLE MAPS BHI GPS KA ISTEMAL KARTA HAI JO HUM KO GADI MEIN NAVIGATE KARNE MEIN MADAT KARTA HAI.
- FISHERMAN, SHIPS, AEROPLANE SAB GPS ISTEMAL KARTE HAIN
- FAUJ MEIN SPECIAL GPS (RECEIVER) MILTE HAIN JINKO NAVIGATION MEIN ISTEMAL KIYA JATA HAI.
- GPS AB CRUISE MISSILE PAR BHI LAGAYA JA RAHA HAI TAKI MISSILE SAHI TARGET PAR PAUNCHE.

