

SURVEYING INSTRUMENTS

DT500

DT500S

DT500A

DT500AS

DT600

DT600S

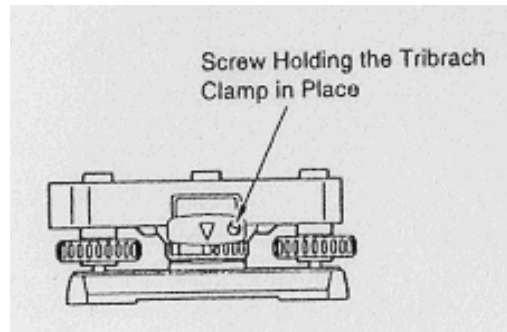
Electronic Digital Theodolite

| | | |
|------------------|-------|----|
| 1. | ..... | 3 |
| 2. | ..... | 4 |
| 3. | ..... | 5 |
| 4. | ..... | 6 |
| 5. | ..... | 7 |
| 5-1. | ..... | 7 |
| 5-2. | ..... | 7 |
| 5-3. | ..... | 8 |
| 5-4. | ..... | 8 |
| 6. | ..... | 9 |
| 7. | | 10 |
| 8. | | 11 |
| 8-1. | | 11 |
| 8-2. | | 11 |
| 8-3. | | 11 |
| 8-4. | | 11 |
| 8-5. | | 11 |
| 9. | | 13 |
| 10. ERROR | | 14 |
| 11. Option | | 14 |
| 12. | | 18 |
| 12-1 | | 18 |
| 12-2 | | 18 |
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| 12-4 | | 19 |
| 12-5 Tilt | | 19 |
| 13. | | 21 |
| 13-1 Option | | 22 |
| 13-2 | | 23 |
| 14. | | 24 |
| 14-1 | | 24 |
| 14-2 | | 25 |
| 15. | | 26 |

1. [REDACTED]

- 1) 3 1 ,
- 2)
- 3) , , ()
- 4) 가 가 ,
- 5) 가
- 6)
- 7) ,
- 8) OFF
- 9)
- 10) , ,
- 11)
- 12) 가

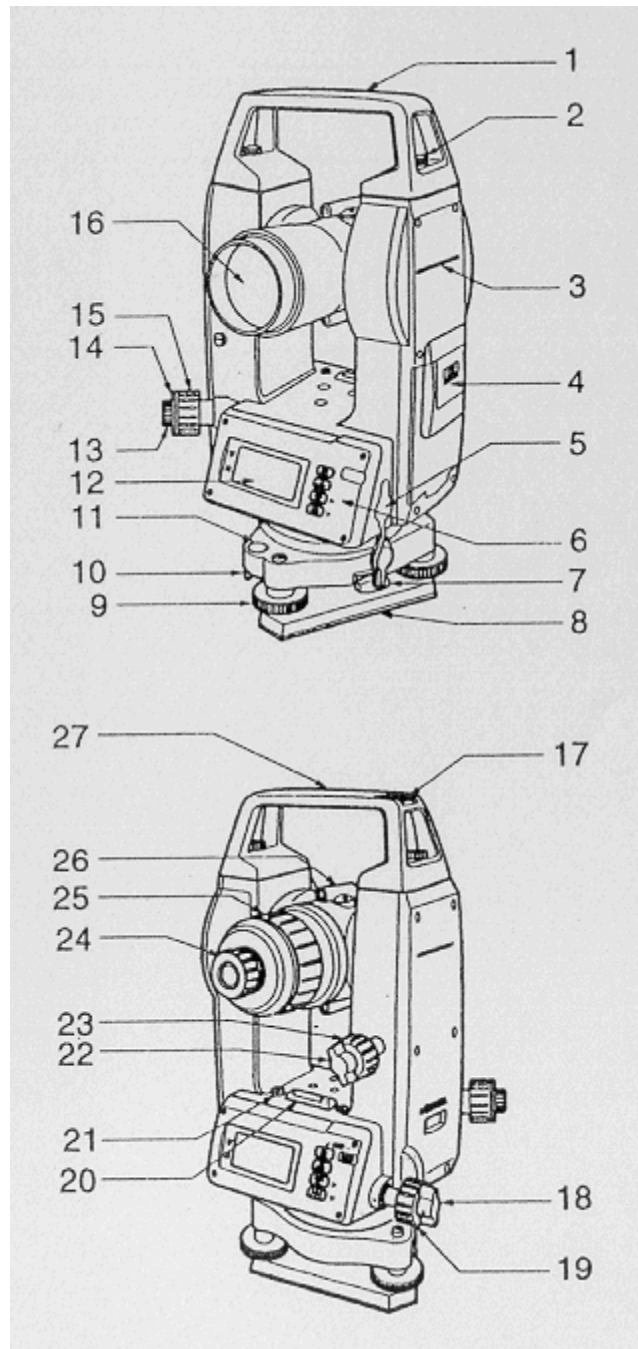
DT500/DT500A



2. XXXXXXXXXX

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.
- 26.
- 27.

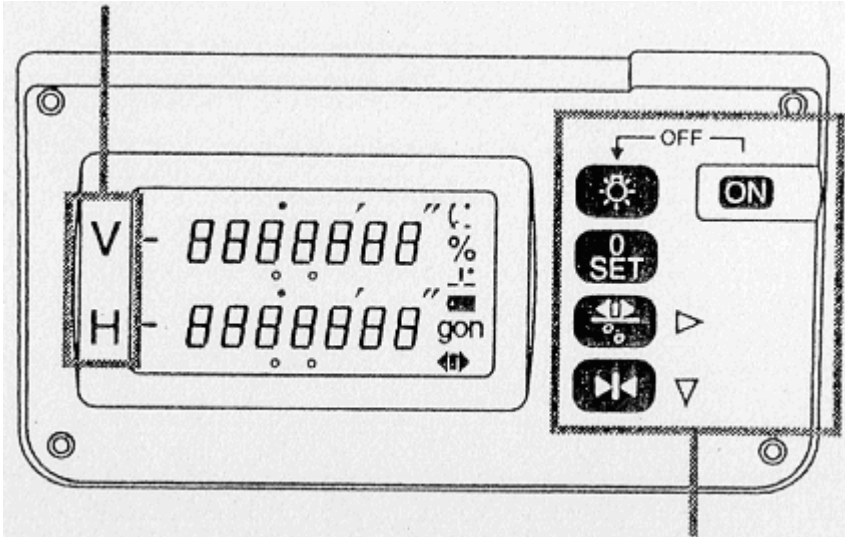
(DT600/DT600S)



3. XXXXXXXXXX

V:

H:



- (⊥) : ±90°
- % : %
- ⊥ : (Option)
- ⊥ : ()
- gon : gon
- ▶ :
- ◀ :
- ⏪ :

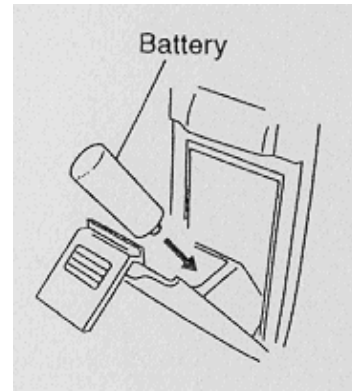
- ON : ON
- ON ⊥ : OFF
- ⊥ : /
- ⊥ :
- 0 SET : 0 SET (2)
- ◀▶ :

4. [REDACTED]

- 1.
- 2.
- 3.

가

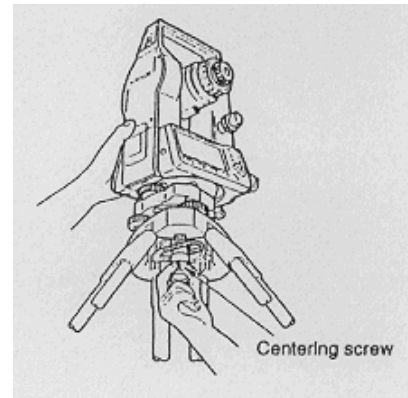
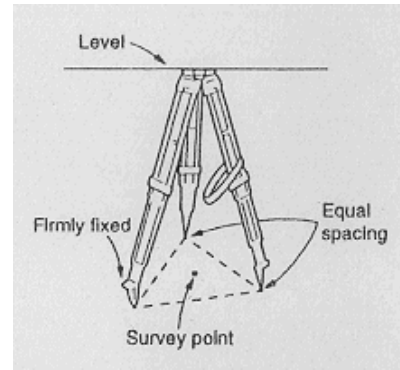
가



- 3 : 90-100%
- 2 : 50-90%
- 1 : 10-50
- 0 : 0-10 ()

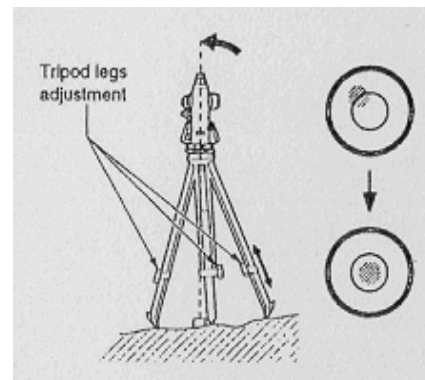
5.

5-1.



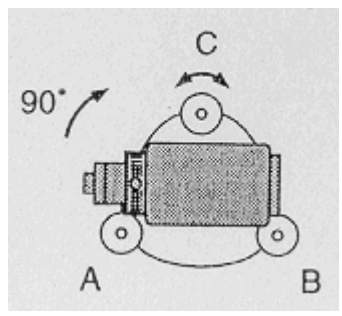
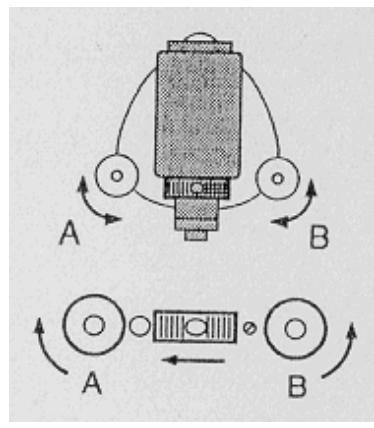
5-2.

가 , 가 가 가



A, B

A, B
 (.)
 90° C
 90° 가 가
 가
 A, B
 1/2
 가



5-3.

DT500/500A/600

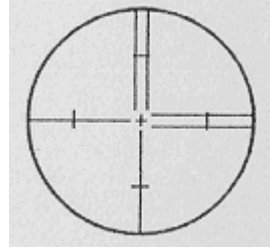
DT500S/500AS/600S
 ()
 ±8mm

5-4.

가

6. [Redacted]

,
가



가 가 ,
가 .

7. [REDACTED]

POWER ON

ON 가

0

0

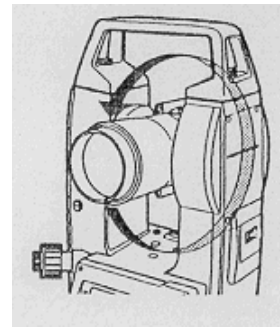
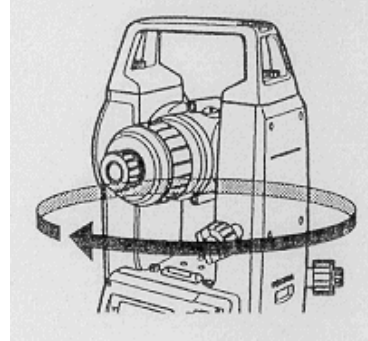
0 :

" - " 가

0 : 0

가

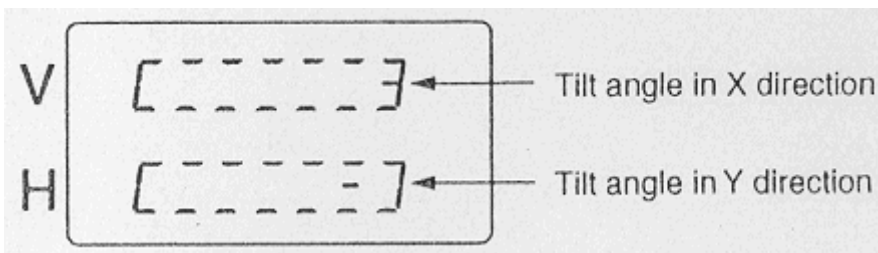
" - "



Message

DT500/500S

가

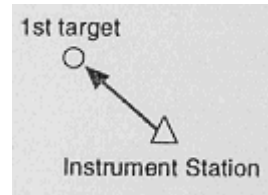


8.

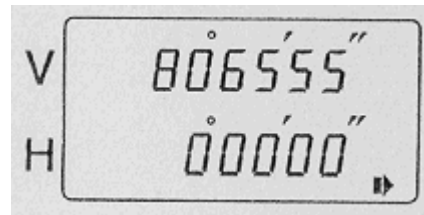
8-1.



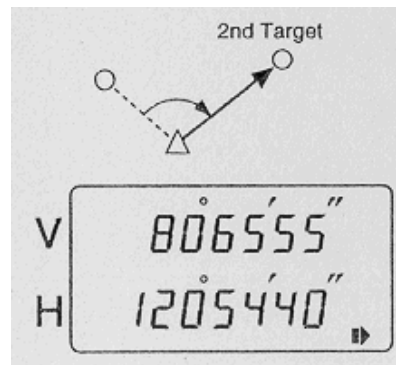
0°



8-2.



8-3.



8-4.

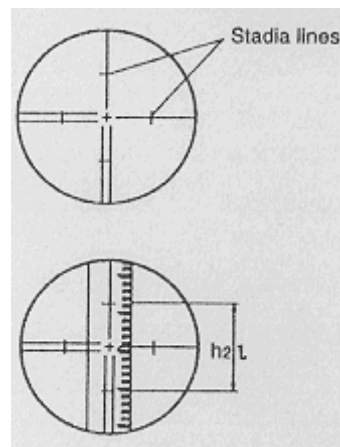


%

(Option)

8-5.

1/1000

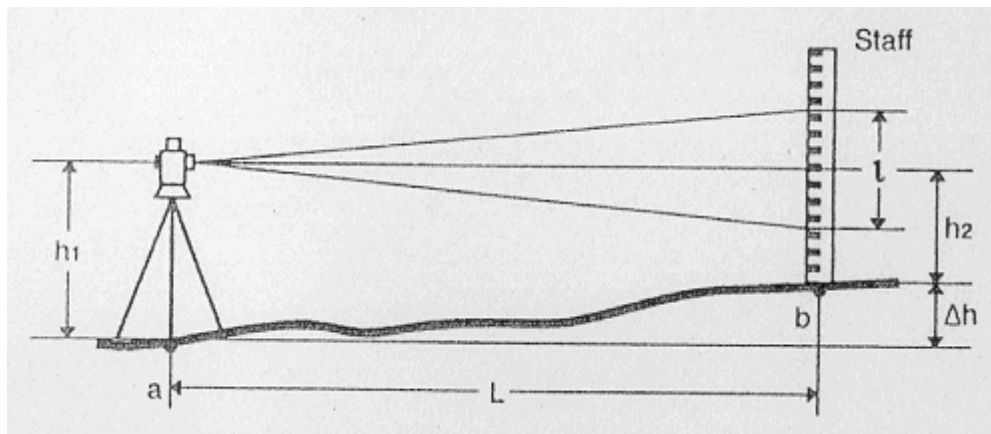


a, b

: $L=100 X$

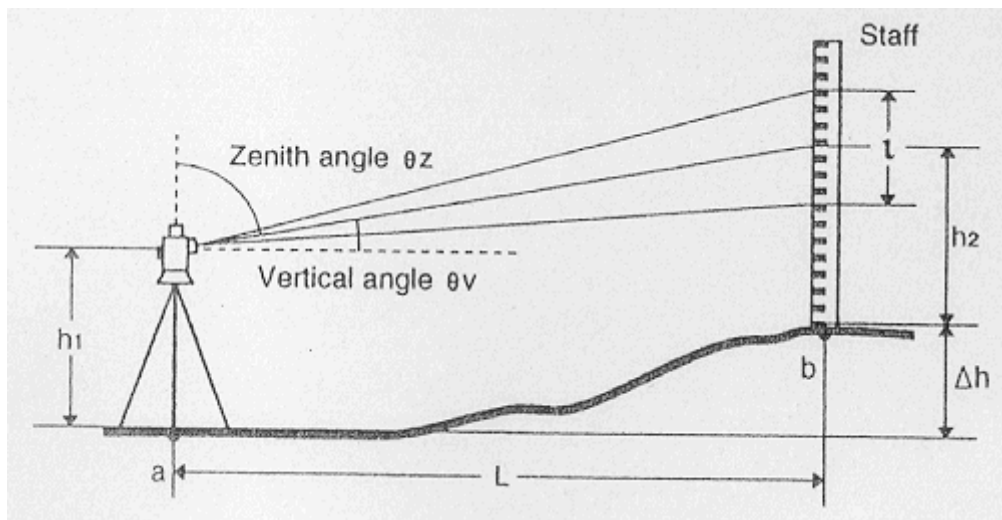
a, b

: $h=h_1-h_2$



a, b : $L = 100 \times \frac{1}{\sin^2 z}$,
 $L = 100 \times \frac{1}{\cos^2 v}$

a, b : $h = 50 \times \frac{1}{\sin^2 z} + h_1 - h_2$,
 $h = 50 \times \frac{1}{\sin^2 z} + h_1 - h_2$





10. ERROR

| | | |
|------------------------------|--------------|---|
| E100 | 0 | 가 |
| E101 | 0 | 가 |
| E114 E115 E116 E117 | DT600/DT600S | |


11. Option


Item


가

1)   Mode

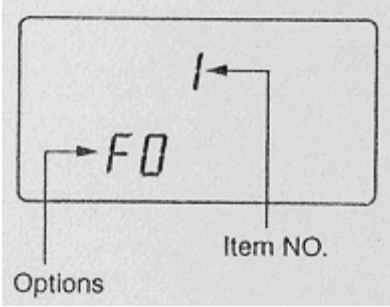
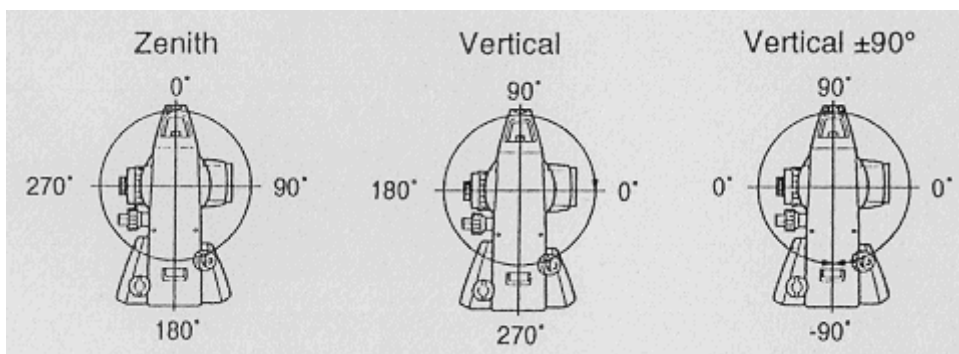
Option

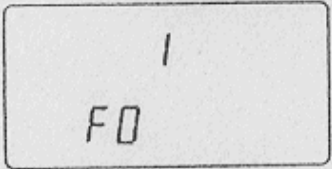
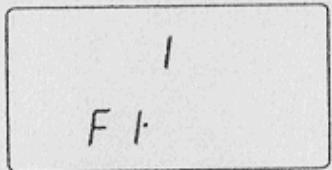
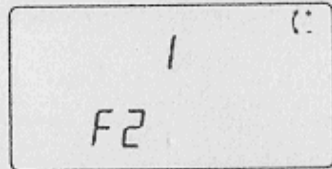
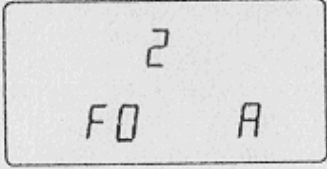
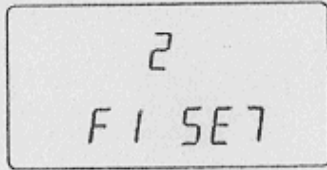
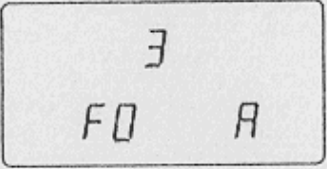
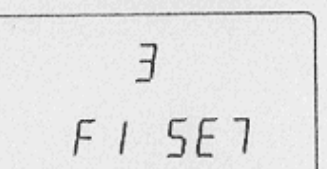
2)  Item

3)  Item


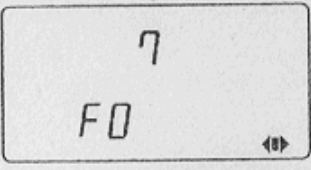
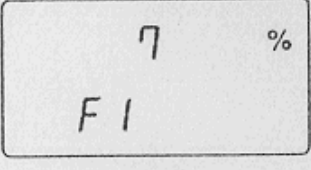
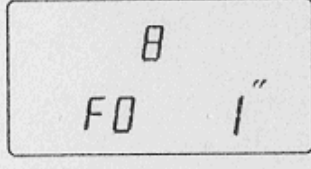
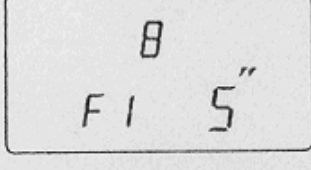
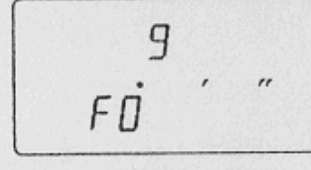
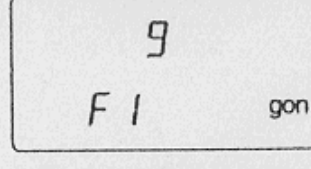
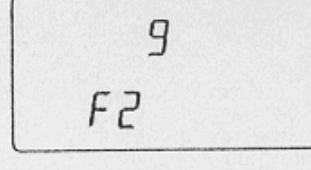

4)  Item

Mode

| Item NO. | Parameter | Options | Display |
|----------|--|-----------------|---|
| 1 | Vertical angle display mode 고도각 표시 | Zenith0°* |  |
| | | Horizontal 0° |  |
| | | Horizontal ±90° |  |
| 2 | Vertical angle indexing 고도분도반 리셋트 | Auto* |  |
| | | Manual |  |
| 3 | Horizontal angle indexing 수평분도반 리셋트 | Auto* |  |
| | | Manual |  |

| Item NO. | Parameter | Options | Display |
|----------|--|---|---------|
| 4 | Tilt correction (only DT500/500S) 자동경사보정장치 (DT500/500S) | On (H, V) * | |
| | | On (V) | |
| | | Off | |
| 5 | Auto power cut-off 전원자동 OFF 기능 | On (instrument powers off if not used for 30 min.)* | |
| | | Off | |
| 6 | Reticle illumination (only DT500/500S/ 500A/500AS) 십자선 조명장치 | Bright* | |
| | | Dim | |

| Item NO. | Parameter | Options | Display |
|----------|--|-----------------------------------|---|
| 7 |  function 기능 | Horizontal angle (Right/left)* |  |
| | | Angle / slope in % |  |
| 8 | Minimum display 최소표시 | 1" |  |
| | | 5" |  |
| 9 | Unit 단위 | Degree |  |
| | | gon |  |
| | | mil |  |
| 10 | Instrument constant  12.5 참조 | | |

12.

가

12-1

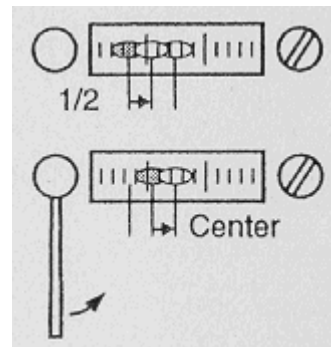
가

- 1) “5.”
- 2) 180°

가
가

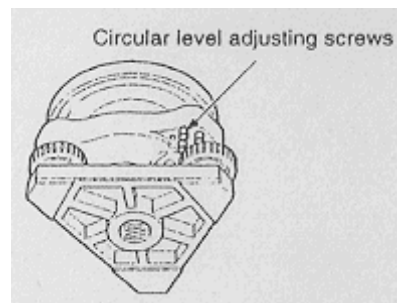
- 3) 1/2
- 4) 1/2
- 5) 180°

가



12-2

가



- 1)
- 2)

3) 3

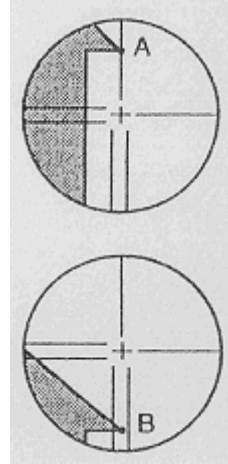
12-3

1)

A

2)

B

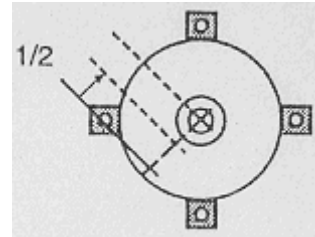


12-4

1)

2)

180°



3)

1/2

4)

5)

4

6)

가

가

12-5 Tilt

1)

2)





Option

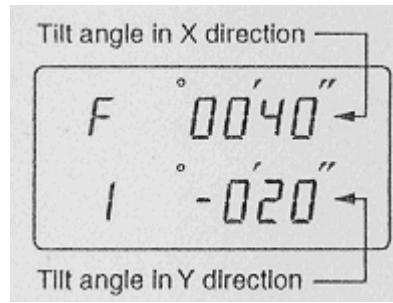
Mode

Item No.10 Tilt

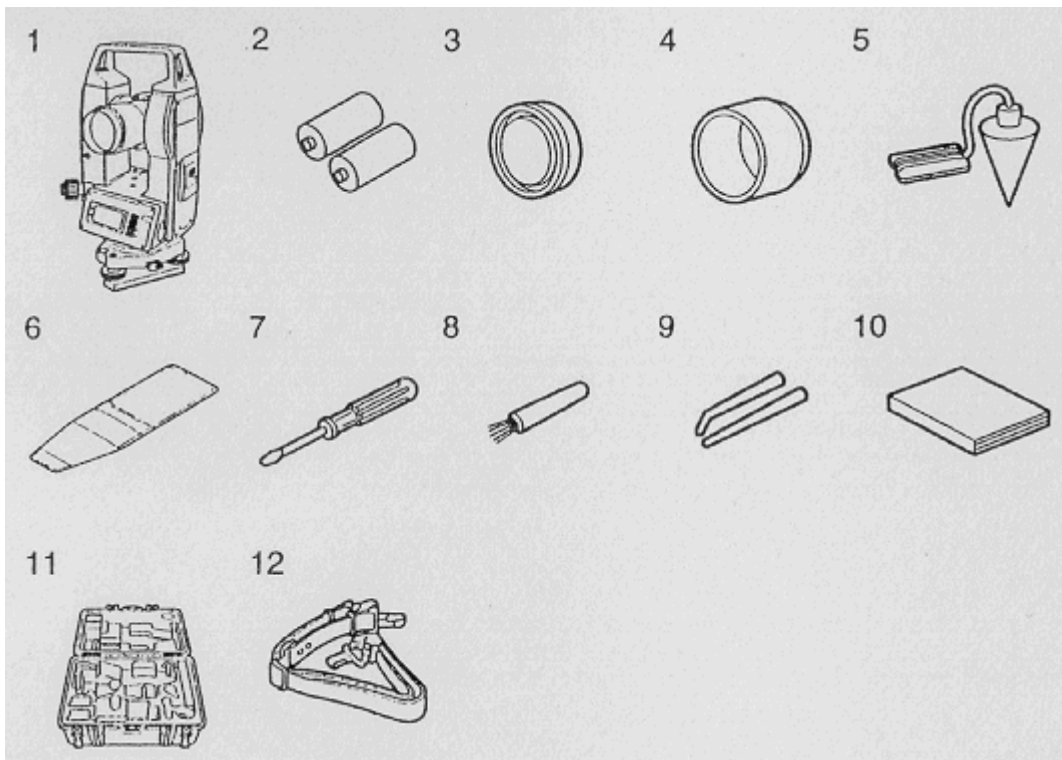
3)

Target

- 가
- 4) X1, Y2
180° Target
- 5) 가 X2, Y2
Offset
 $X \text{ Offset} = (X1 + X2)/2$
 $Y \text{ Offset} = (Y1 + Y2)/2$
- 6) Offset ±20
- 7)   가
 Mode
 X, Y ±20

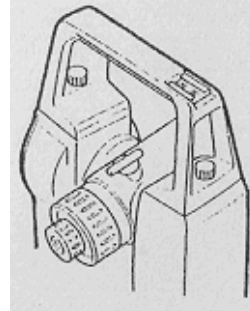
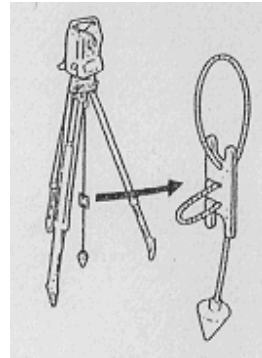


13.



- | | | | | | |
|----|-------|---|-----|-------|---|
| 1. | ..... | 1 | 7. | ..... | 1 |
| 2. | ..... | 2 | 8. | ..... | 1 |
| 3. | ..... | 1 | 9. | ..... | 1 |
| 4. | ..... | 1 | 10. | ..... | 1 |
| 5. | ..... | 1 | 11. | ..... | 1 |
| 6. | ..... | 1 | 12. | ..... | 1 |

S 가



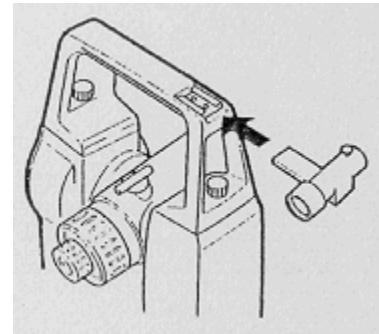
13-1 Option

(CP7)

2

(磁北)

「正」



Cable

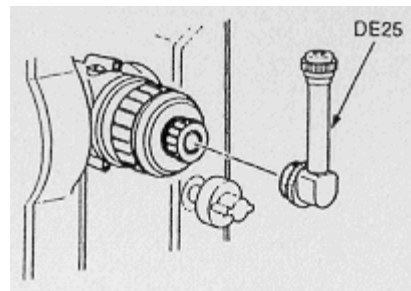
PC

Cable

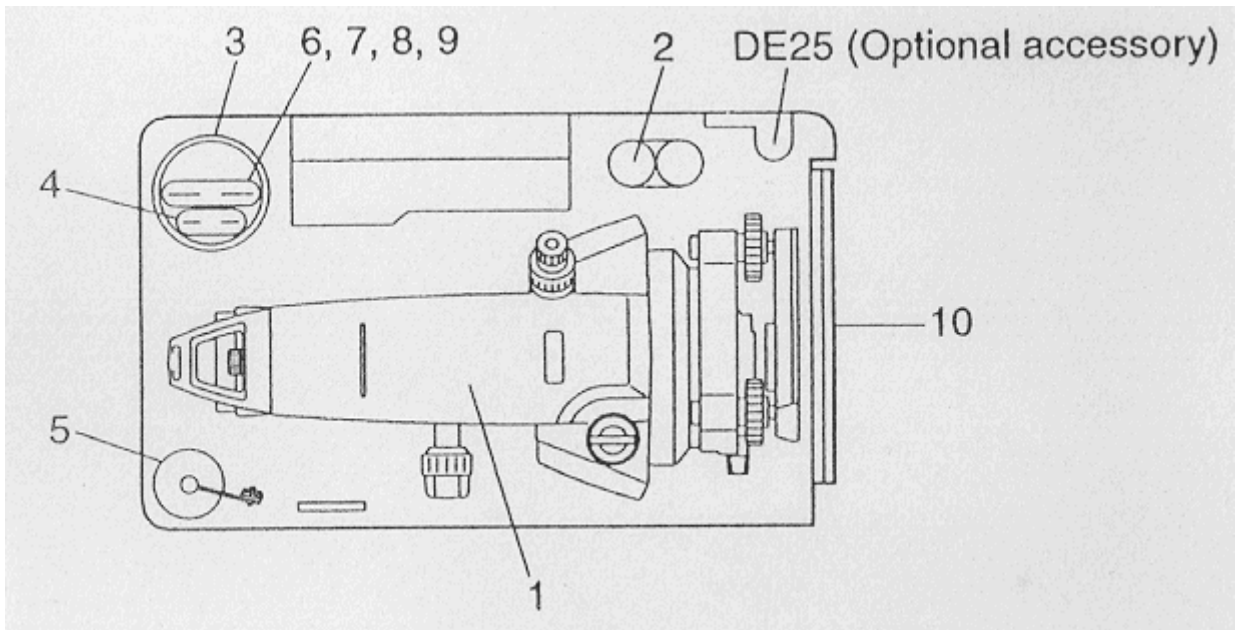
- DOC25 Seiko/Epson
- DOC26 IBM
- DOC27 Toshiba J3100
- DOC1 Cable PC
- PC

가

Diagonal eyepiece (DE25)



13-2

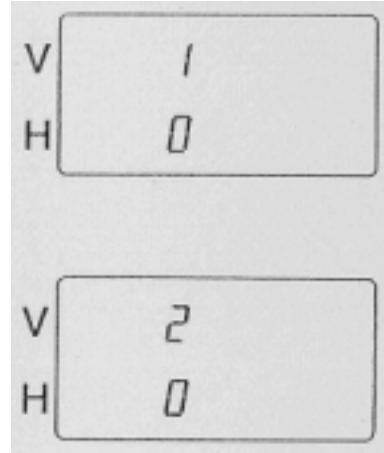


14.

14-1

0 100%

0



1) 「11. Option」

Item NO.2

Manual

2) Mode 가 “1” 가

3)

4) 30m Target 「正」



Key

“2”가

5) 「反」

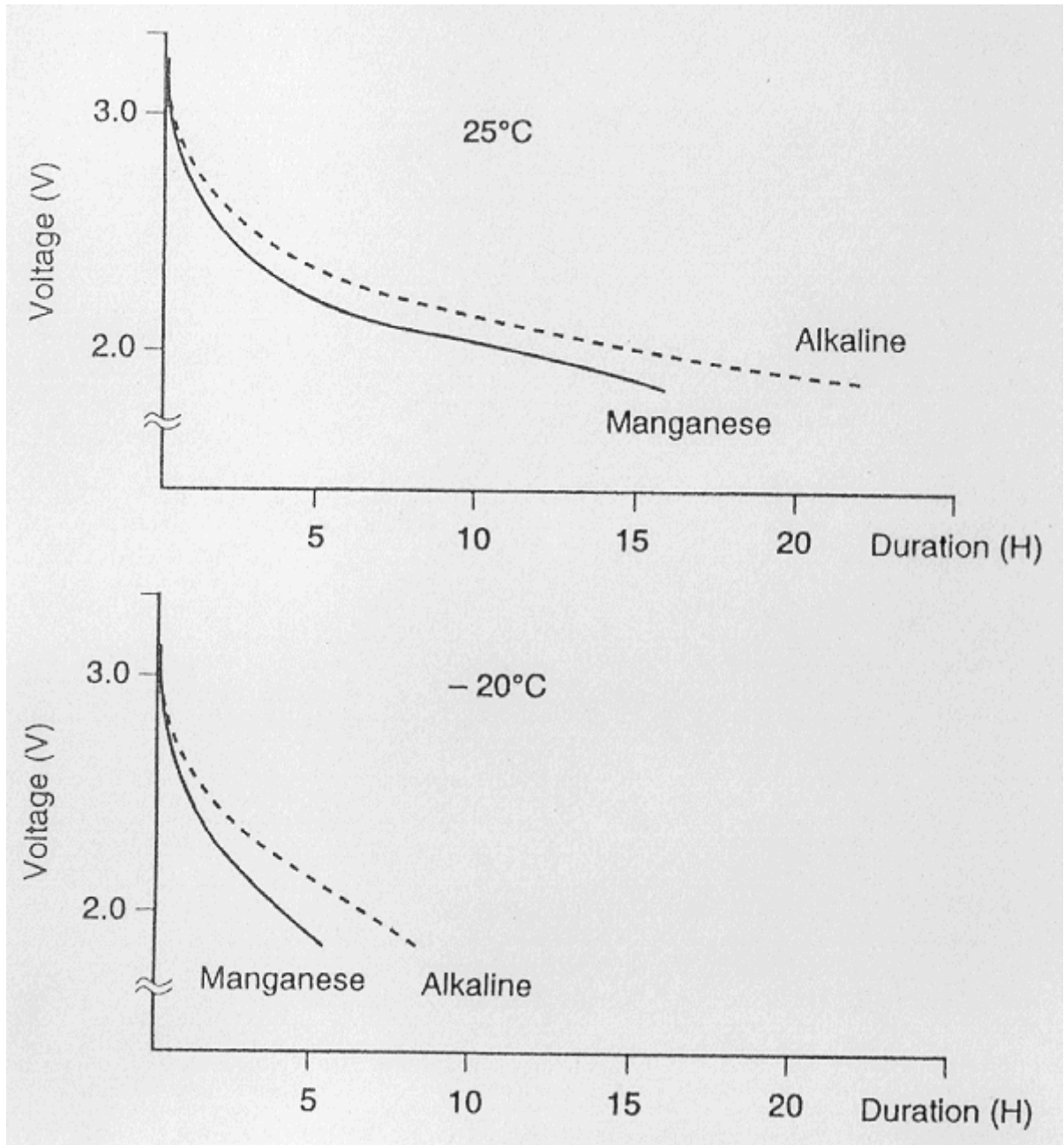


Key

Off

14-2

가



15.

DT500 : 165mm

DT600 : 160mm

DT500 : 45mm

DT600 : 35mm

DT500 : 30×

DT600 : 26×

DT500 : 3

DT600 : 3.5"

1°30

0.9m

Bright, Dim (Option)

1:100

-359°59'59" ~ 359°59'59"

DT500 : 1

DT600 : 5

0.5

ON(H&H/V)/Off (Option)

2

3

/ (Option)

0°/ 0°/ ±0°

(Option)

R14/C Type 2

DT500/DT500S : 13

DT500/DT500AS/DT600/DT600S : 23

25

LCD Panel,

120dots×64dots

DT500/DT500S : 1 LCD
DT500A/DT500AS/DT600S : 1 LCD

Off ON (30 Off)
Off (Option)
RS232C
DT500 : 40"/2mm
DT600 : 60"/2mm
10'/2mm
: 3x
: 0.3m
-20 ~ 50
-30 ~ 70
IP66
236mm
165(W)×165(D)×341(H)mm ()
DT500/DT500AS/DT600S : 4.7Kg
DT500A : 4.6Kg
DT500S : 4.8Kg
DT600 : 4.2Kg