

SURVEYING INSTRUMENTS

DT500

DT500S

DT500A

DT500AS

DT600

DT600S

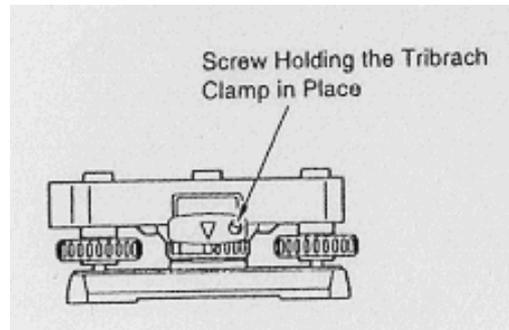
Electronic Digital Theodolite

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
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12-4	19
12-5 Tilt	19
13.	21
13-1 Option	22
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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

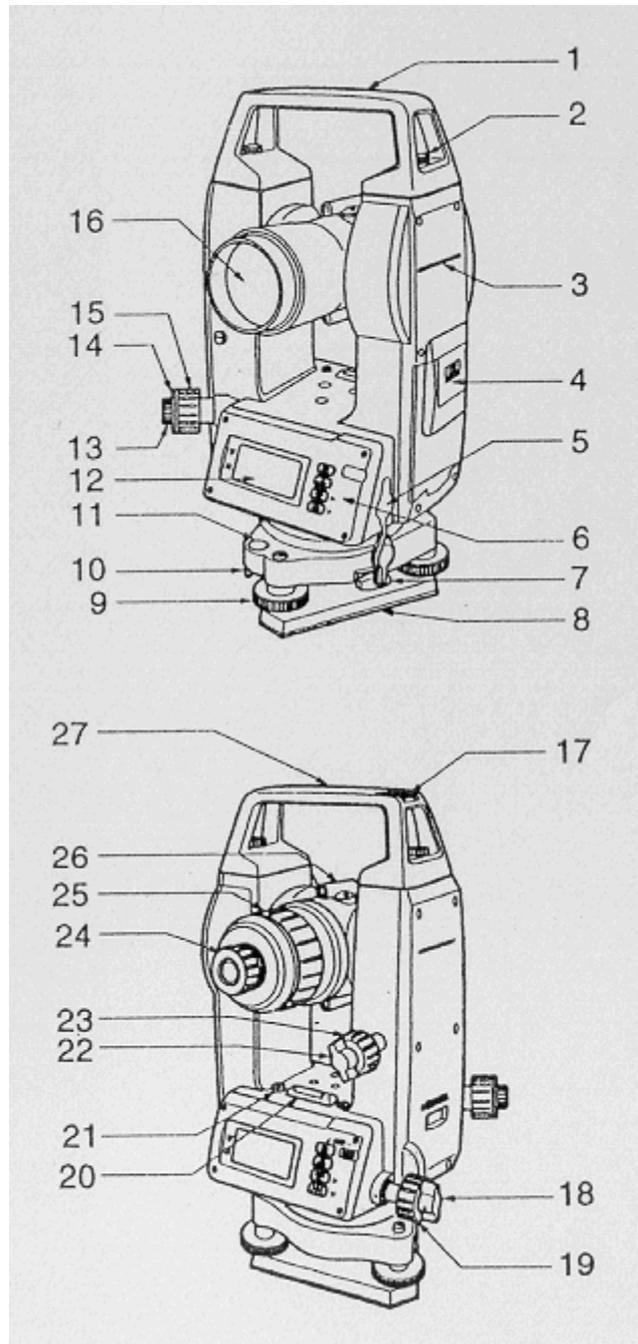
DT500/DT500A



2. [REDACTED]

- 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.

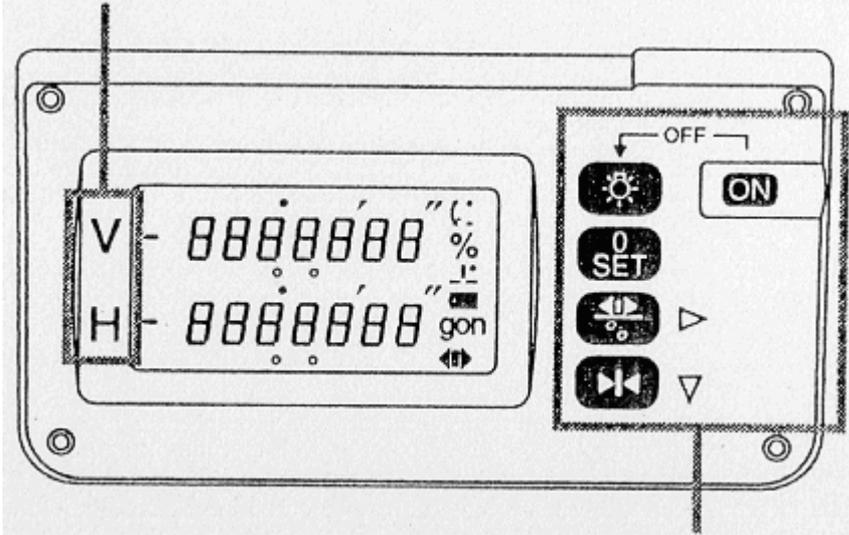
(DT600/DT600S)



3. XXXXXXXXXX

V:

H:



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

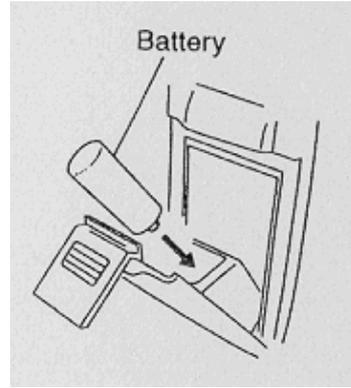
- ON : ON
- ON ☐ : OFF
- ☐ : /
- ☐ :
- 0 SET : 0 SET (2)
- ◀▶ :

4. [REDACTED]

- 1.
- 2.
- 3.

가

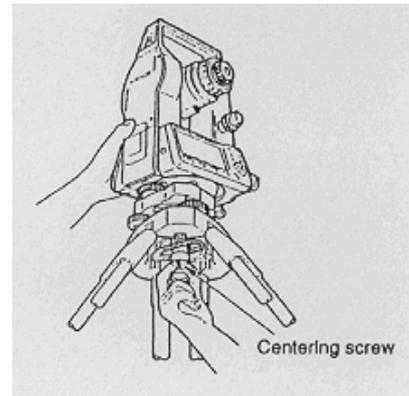
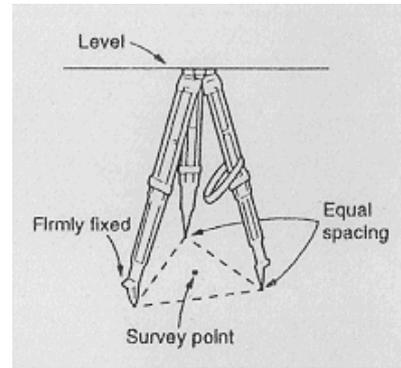
가



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

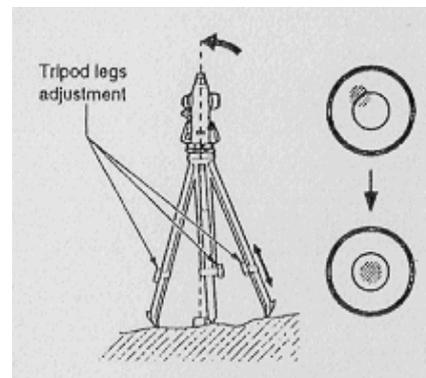
5.

5-1.



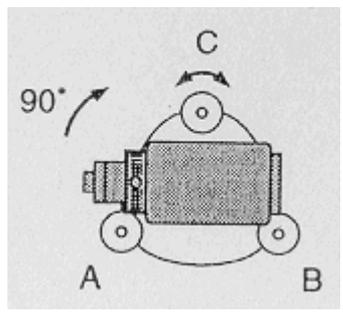
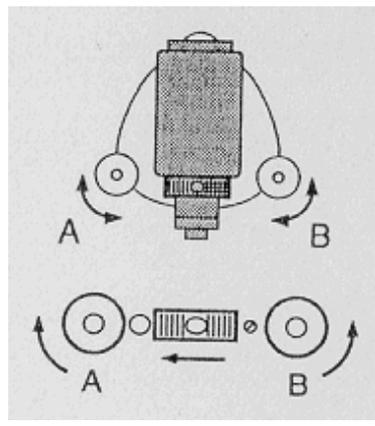
5-2.

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

()

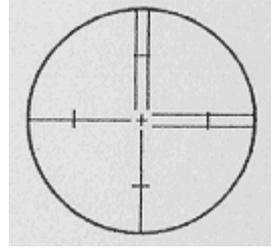
±8mm

5-4.

가

6. [Redacted]

,
가



가 가 ,
가 .

7. [REDACTED]

POWER ON

ON 가

0

0

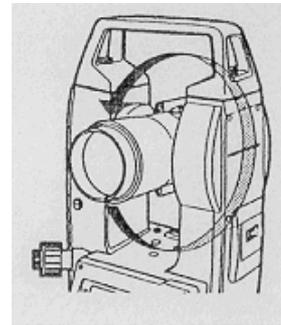
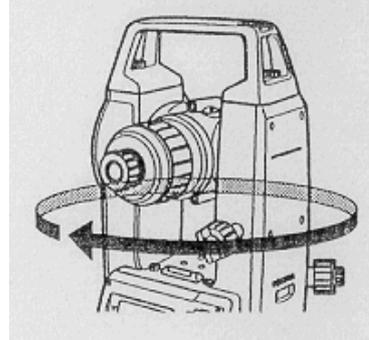
0 :

" - " 가

0 : 0

가

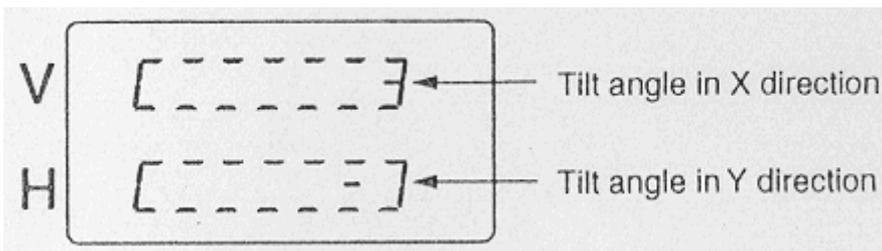
" - "



Message

DT500/500S

가

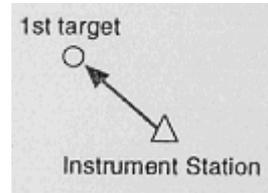


8.

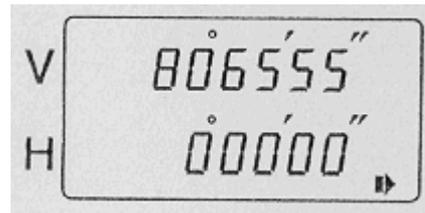
8-1.



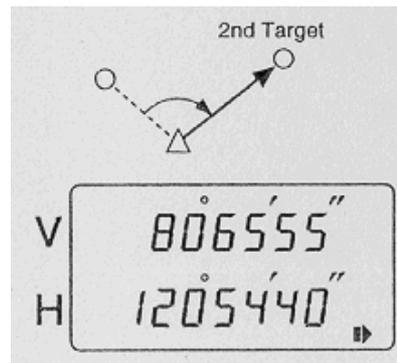
0°



8-2.



8-3.



8-4.

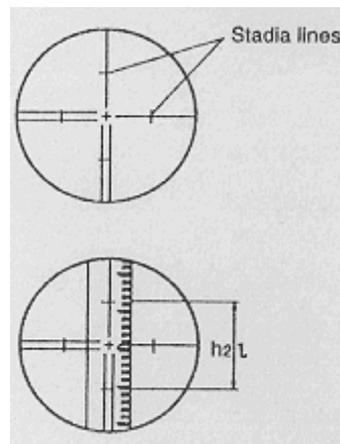


%

(Option)

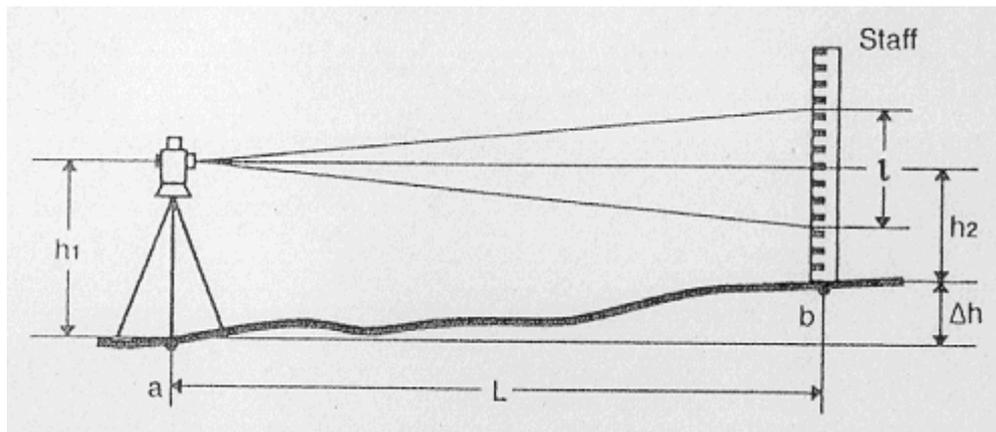
8-5.

1/1000



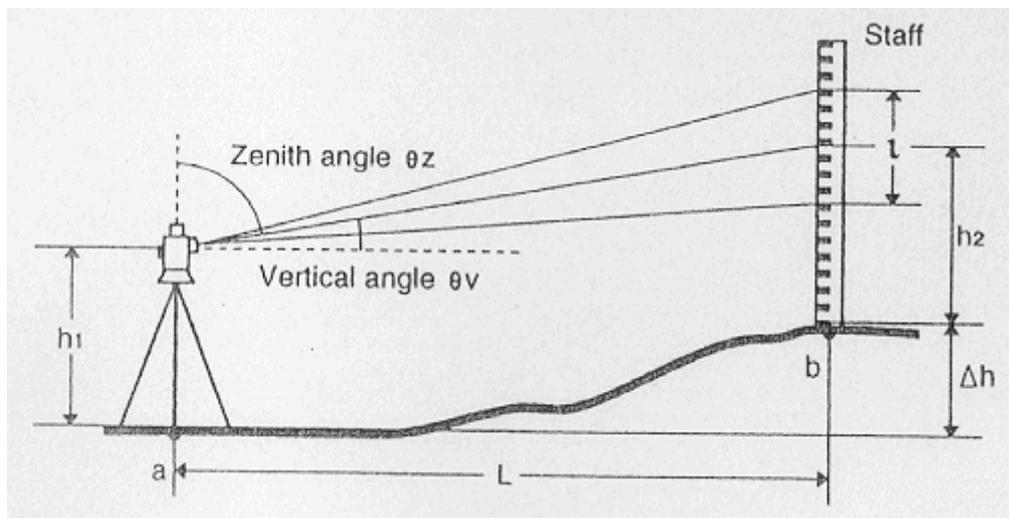
a, b : $L=100 X$

a, b : $h=h_1-h_2$



a, b : $L = 100 \times \frac{h_2 - h_1}{\sin^2 z}$,
 $L = 100 \times \frac{h_2 - h_1}{\cos^2 v}$

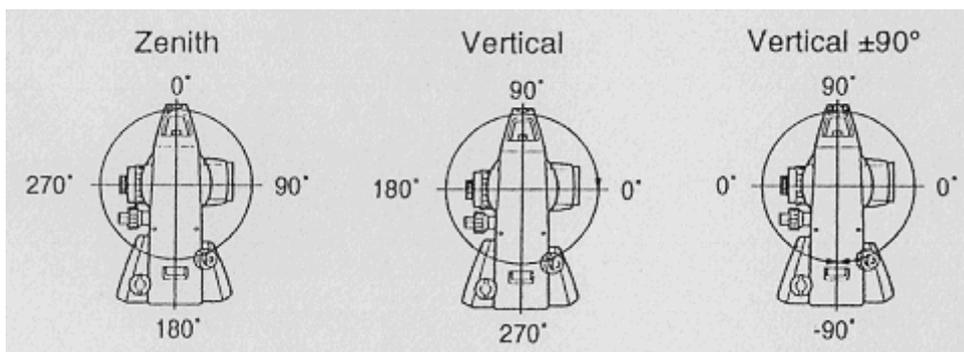
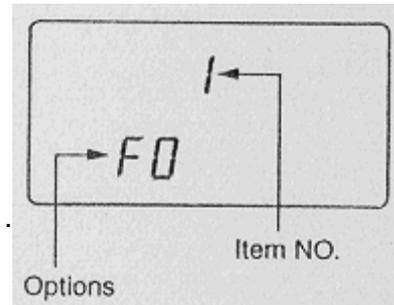
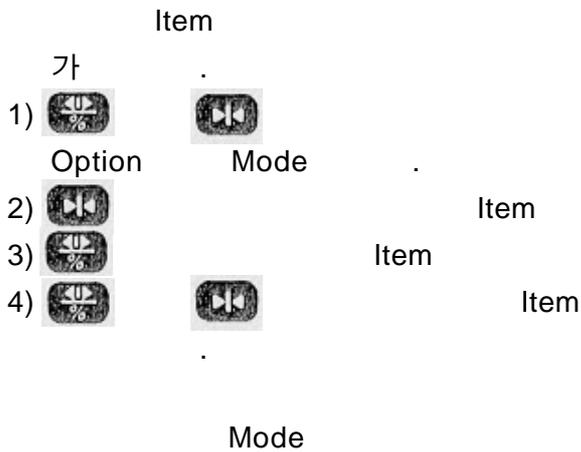
a, b : $h = 50 \times \frac{L^2}{100} \sin^2 z + h_1 - h_2$,
 $h = 50 \times \frac{L^2}{100} \sin^2 z + h_1 - h_2$

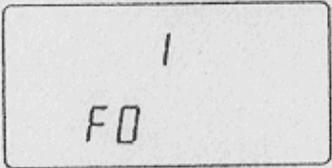
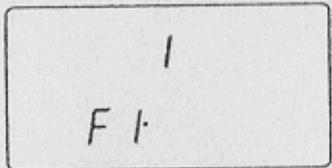
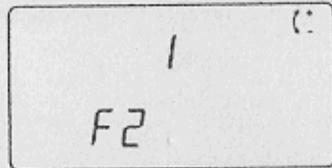
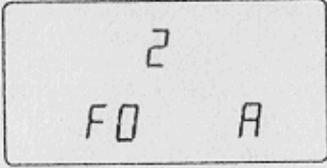
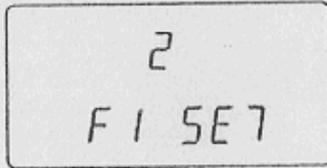
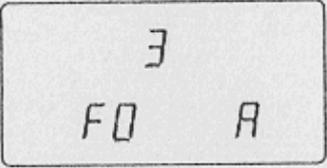
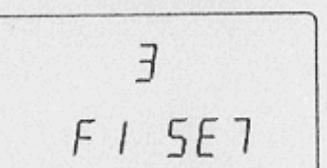


10. ERROR

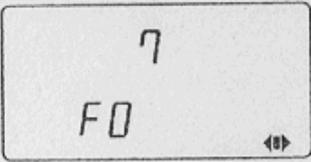
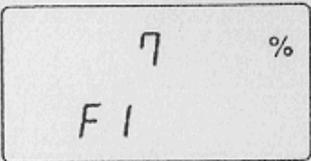
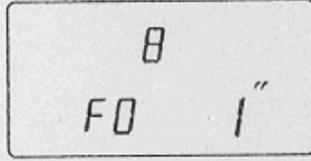
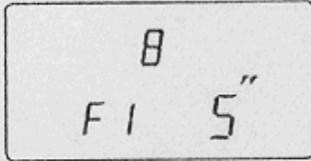
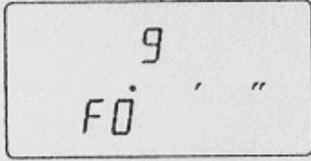
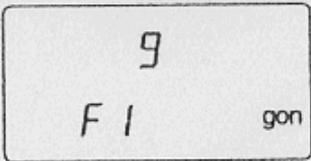
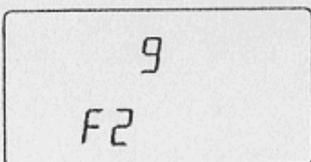
E100	가 0
E101	가 0
E114 E115 E116 E117	DT600/DT600S

11. Option



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°

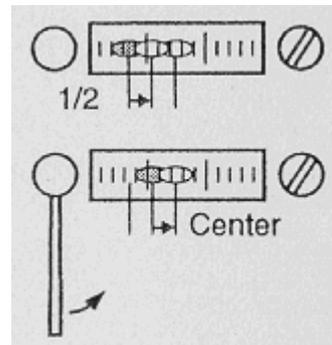
가
가

- 3) 1/2

- 4) 1/2

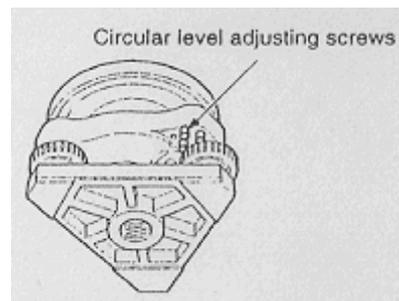
- 5) 180°

가



12-2

가



- 1)
- 2)

3) 3

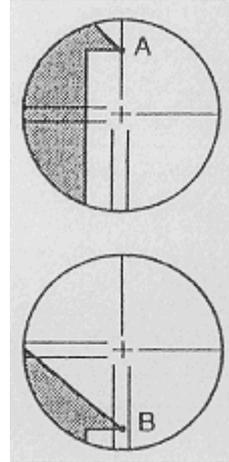
12-3

1)

A

2)

B

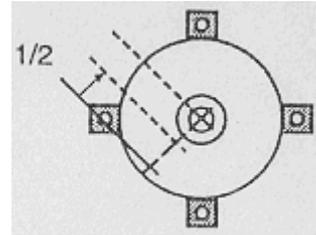


12-4

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

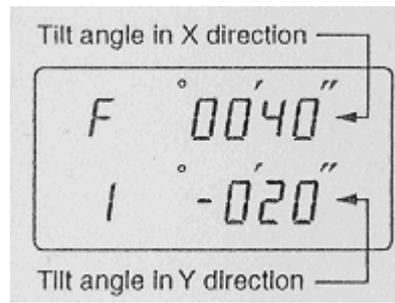
가
 X1, Y2
 4) 180° Target

가 X2, Y2
 5) Offset
 $X \text{ Offset} = (X1 + X2)/2$
 $Y \text{ Offset} = (Y1 + Y2)/2$

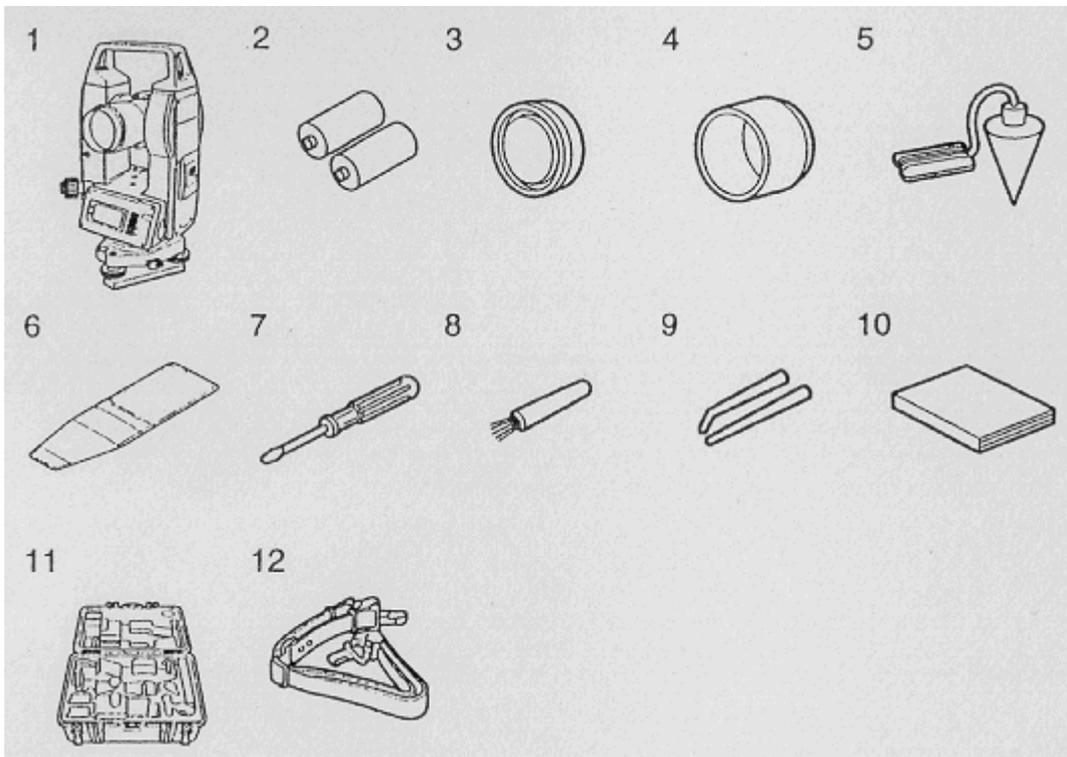
6) Offset ±20

7) 가

Mode
 X, Y ±20

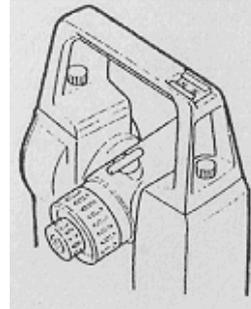
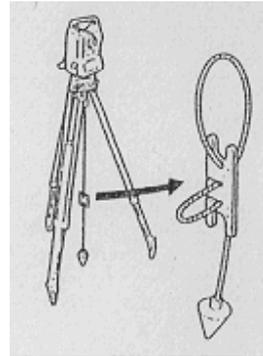


13.



- | | | | | | |
|----|-------|---|-----|-------|---|
| 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



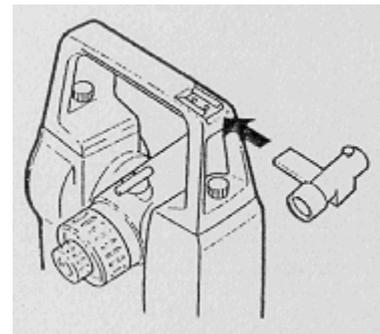
13-1 Option

(CP7)

2

「正」

(磁北)



Cable

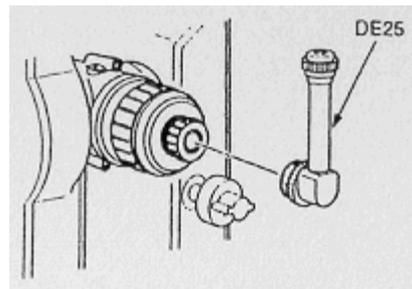
PC

Cable

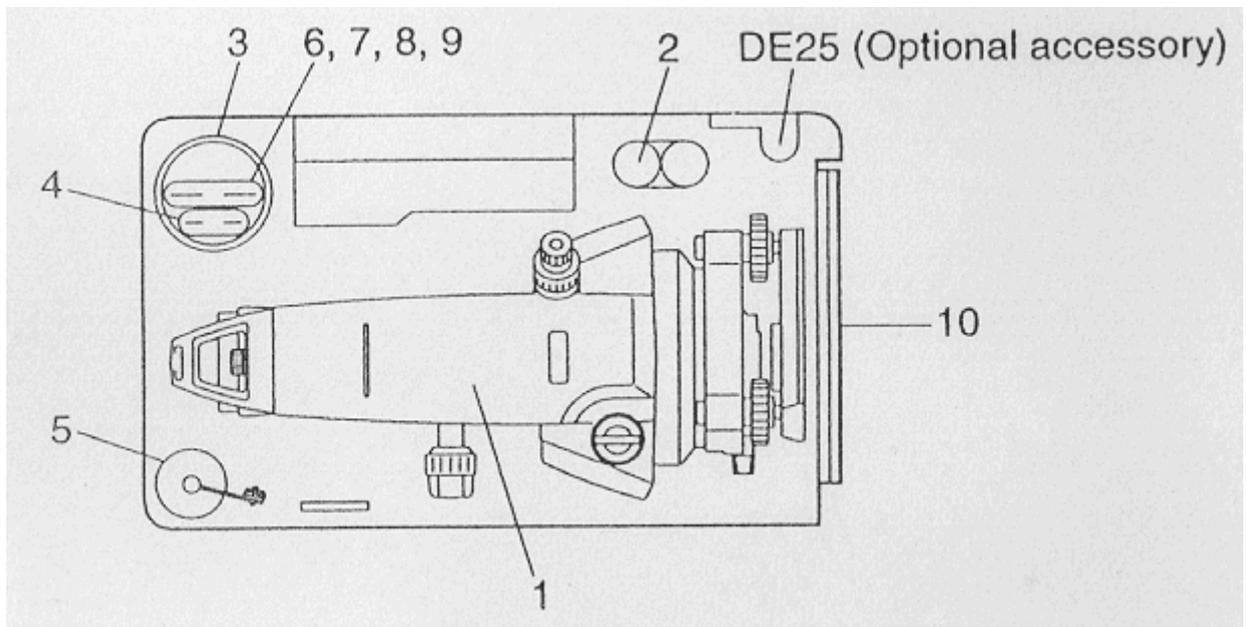
- DOC25 Seiko/Epson
- DOC26 IBM
- DOC27 Toshiba J3100
- DOC1 Cable PC
- PC

가

Diagonal eyepiece (DE25)



13-2

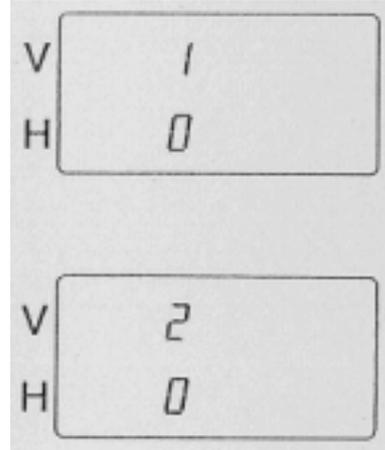


14.

14-1

0 100%

0



1) 「11. Option」

Item NO.2

Manual

2) Mode 가 "1" 가

3)

4) 30m Target 「正」



"2"가

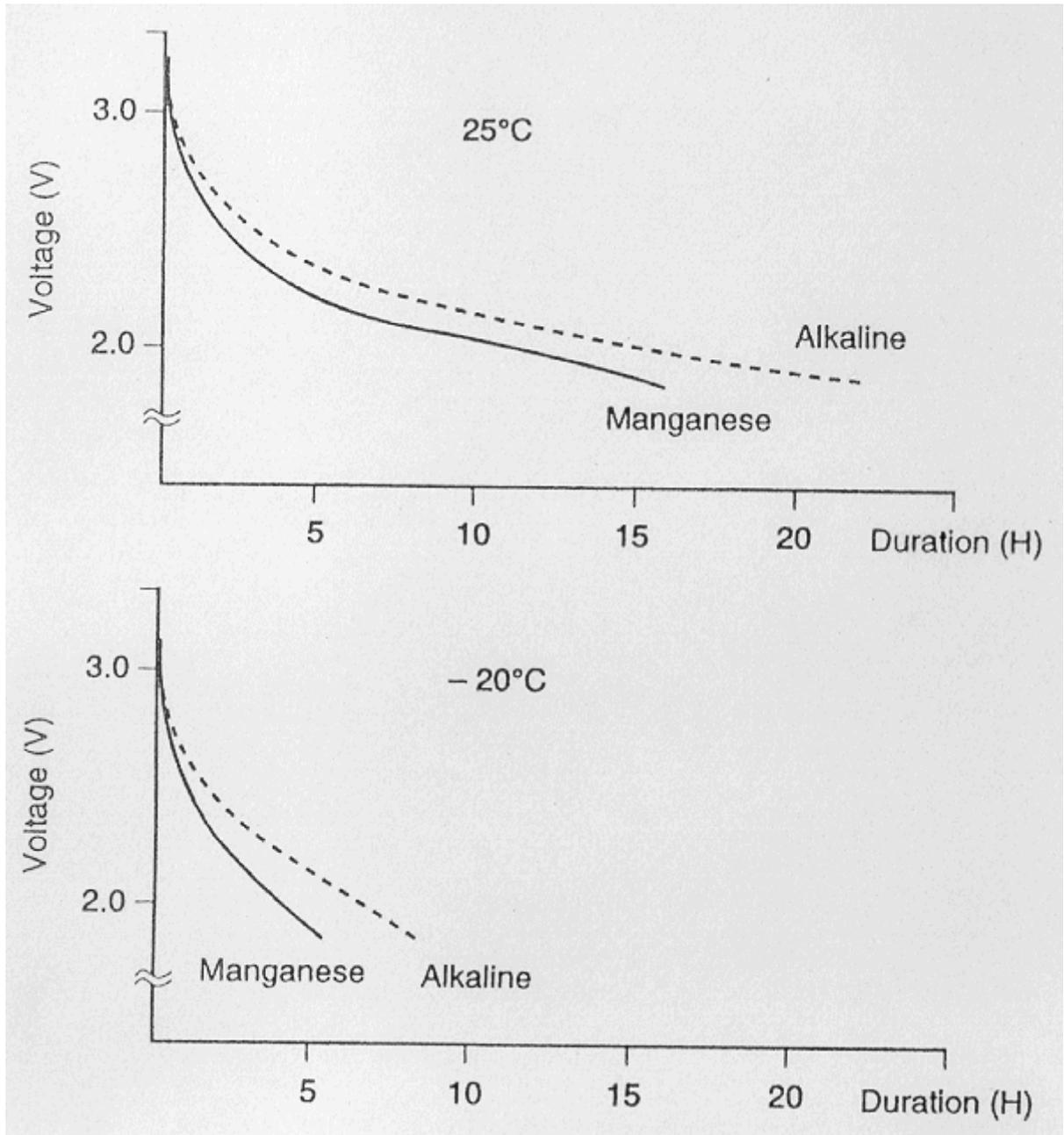
5) 「反」



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