

**CLOCK SET and
ELECTRONIC CALIBRATION *FIELD* PROCEDURES
FOR THE ATS SERIES ETS (*Version 1.0*)**

CALENDER / CLOCK SETTING

1. Press POWER key.

V. Angle 0 Set
Turn Scope

2. Turn telescope to 0 SET the vertical angle.
3. Press the S key. Function key (F1-F5) designation will change to:

WEAT | BATT | DATE | DRIVE |

4. Press F3 (Date) to view Date and Time.

Date & Time
JUN-10-96
5 : 15 : 44

- 4a If correct press ENT to return to standard mode.
- 4b If incorrect enter the following password to change:
17784293
5. Use the Function Keys to make any necessary changes (the item which is blinking will be changed)-
 - F1 ← Move to the previous item.
 - F2 → Move to the next item.
 - F3 + Increase value
 - F4 - Decrease value
6. Press F5 (SETUP) to store the changes.
7. Press the ENT key to return to standard mode.

COLLIMATION AND COMPENSATORS

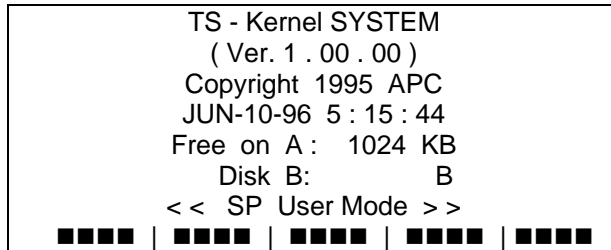
NOTE: *The following mechanical adjustments must be checked (and corrected if necessary) prior to the electronic adjustment adjustment of any axis.*

- * *Perpendicularity of Plate Vial to Vertical Axis*
- * *Perpendicularity of Line of Sight to Horizontal Axis*

Entering Super User mode and the Offset menu

- A. Press POWER key.
- B. Immediately press and hold the S key until the "TS-Kernel SYSTEM" screen appears with "SP User Mode" blinking.

```
TS - Kernel SYSTEM
( Ver. 1 . 00 . 00 )
Copyright 1995 APC
JUN-10-96 5 : 15 : 44
Free on A : 1024 KB
Disk B:      B
<< SP User Mode >>
```



- C. Press and hold the [POWER] key, press the [F1] key and then release both keys. (This must be done while this screen is shown - if the screen goes to "V. Angle 0 set" then start over)
The OFFSET MODE screen will appear.

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OFFSET MODE
1 : Single Adj.
2 : Double Adj.
3 : Triple Adj.
4 : V. Offset
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- D. Perform the "2: Double Adj".

2 DOUBLE ADJUST (Also does single adjust and vertical offset)
[Vertical 0 point offset, X axis compensator, Y axis compensator]

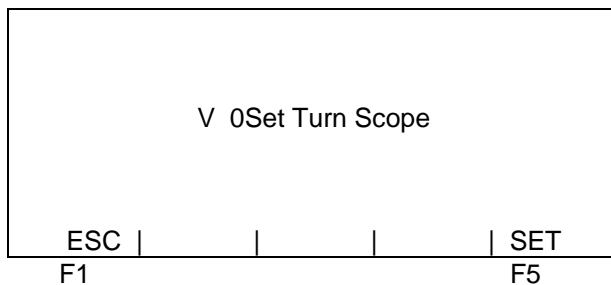
NOTE: *The instrument must NOT be in direct sun light (cloud cover or under umbrella is OK). Atmospheric conditions must be very good (no heat waves etc.)*

2.A This procedure requires a point which can be sighted to with an accuracy of 1". It needs to be near a vertical angle of 90°.

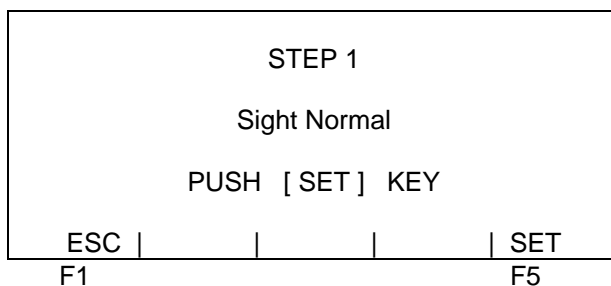
2.B Procedure start.

2.B1 Press [2] to highlight "Double Adj."

2.B2 Press [ENT]



2.B3 Turn telescope up and down.

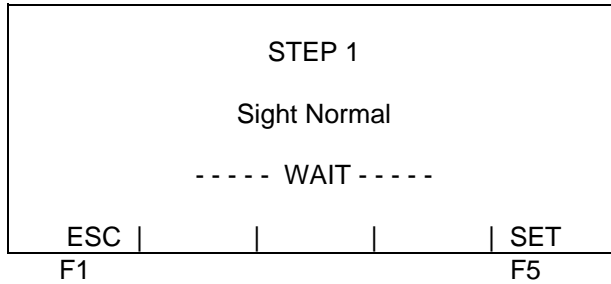


WARNING: Lower horizontal lock (ATS-102 and 105) must be secure.

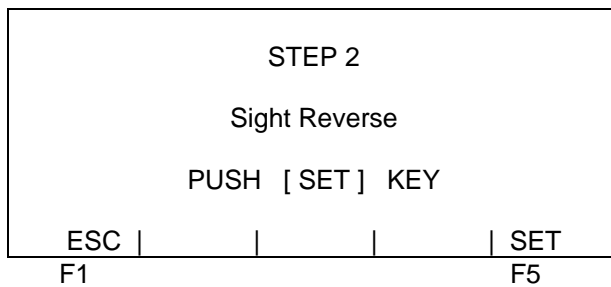
2.C Align the reticle (horizontally) on the target with the telescope in the normal position.

NOTE: Reticle alignment must be precise.

Wait 5 seconds and press the [SET] key.

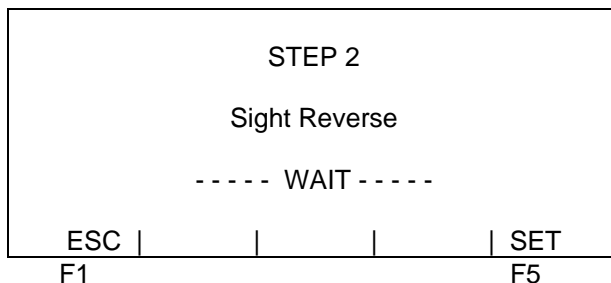


WARNING: Do not touch the instrument while “waiting”.



2.D Release the upper horizontal tangent assembly and rotate the alidade 180°. Release the vertical tangent assembly and rotate the telescope 180°. Align the reticle on the target.

Wait 5 seconds and press the [SET] key.



Offset values will display.

Example values -

H. AXI	-	0° 00' 01.7"		
S. AXI		0° 00' 00.6"		
V. TIL	-	0° 00' 02.5"		
E. TIL	-	0° 00' 17.1"		
V. OFF		2° 06' 37.9"		
ESC				SET
F1				F5

2.E Press [ENT] to store values.