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COMET Skitest manual copyright by: ALGE TIMING AUSTRIA



COMET Skitest

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*GENERAL

The COMET with the program "SKITEST" is the ideal timer for ski-and wax testing.

Enter all important air- and snow-data at the beginning. These data can be brought up to date at any time. They are stored together with time and date and can be transferred to a PC. Up to 150 slope condition data can be stored in the Comet.

All start- and stop-times are viewed in the display and are stored. Up to 750 times can be stored (3750 with large RAM). All times and speeds can be displayed on an ALGE display-board as well.

Just one competitor can be on the course with skitest mode. An observation-time guarantees, that in the case of a competitor falling the time will be cleared again.

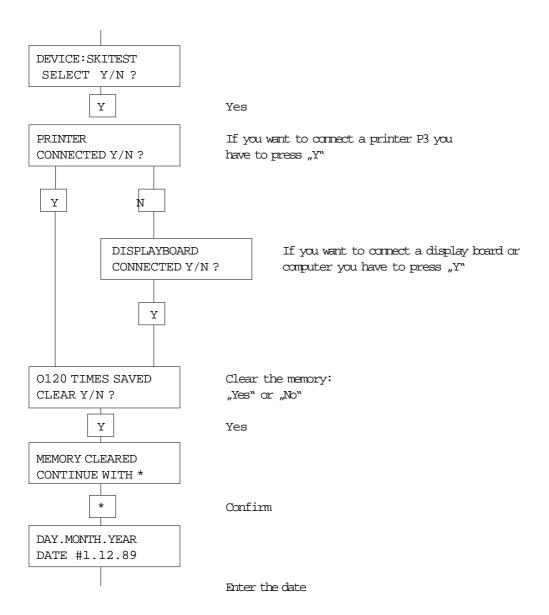
The number of measuring spots (photocell, startgate) is optional.

If you enter the distances between the photocells, the speed in the specific sections will be viewed.



ENTERING THE SKITEST PROGRAM:

You can receive the data from the RS 232 interface on a display-board, Printer P4, or Computer. If you want to connect a display-board or computer choose the display-board, if you use a printer choose the printer. If you do not use the serial interface, you can choose either one.



Now the comet is ready for piste conditions.



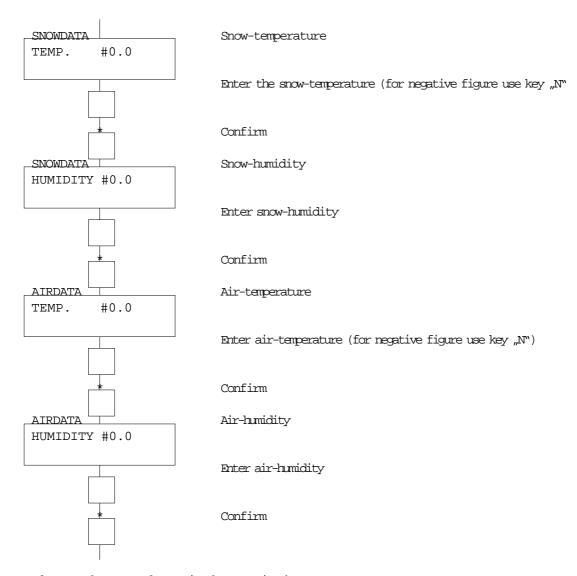
INPUT OF SLOPE CONDITIONS:

There are four criteria for slope conditions:

- snow-temperature
- snow-humidity
- air-temperature
- air-humidity

Slope conditions must be entered before the skitest starts. These data can be brought up to date at any time during the testing by pressing key "B". All data will be stored together with the time of day.

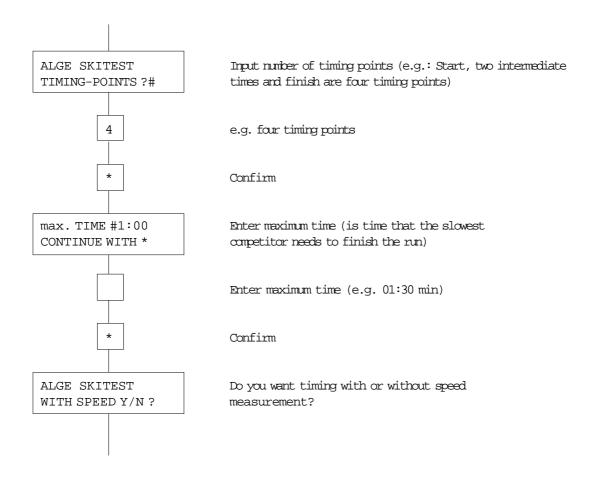
To enter a negative figure use key "N".



New data can be entered any time by pressing key "N".



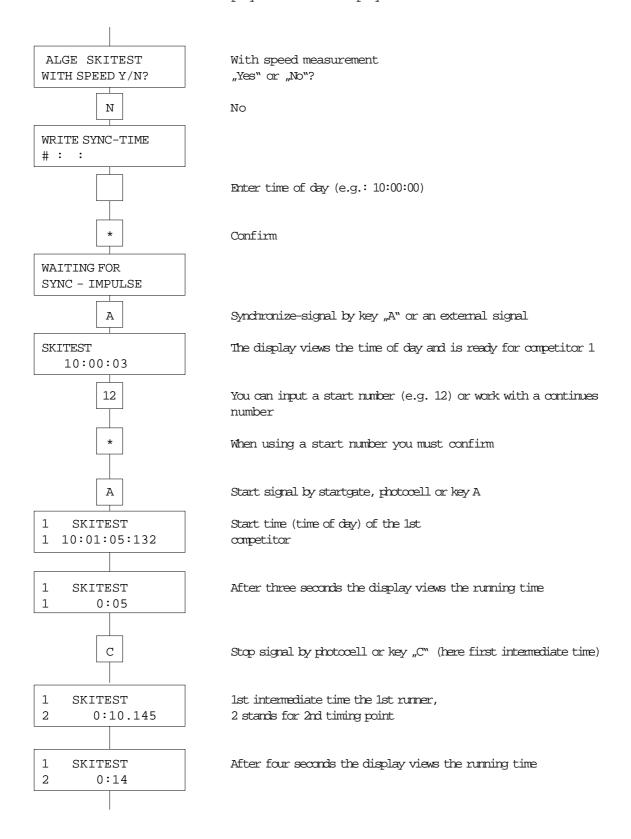
TIME MEASUREMENT





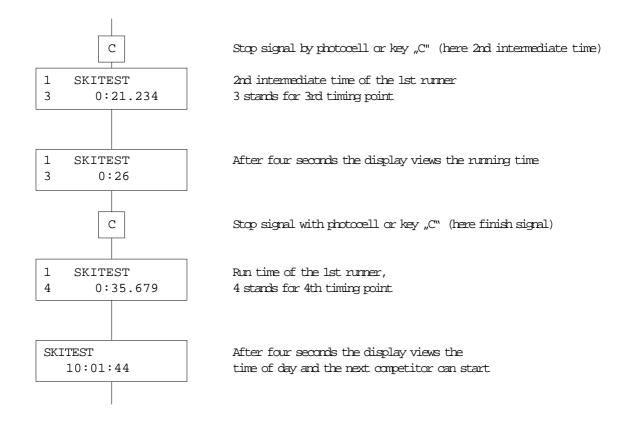
TIME MEASUREMENT WITHOUT SPEED:

All times are stored and can be displayed on an ALGE display-board.



COMET Skitest





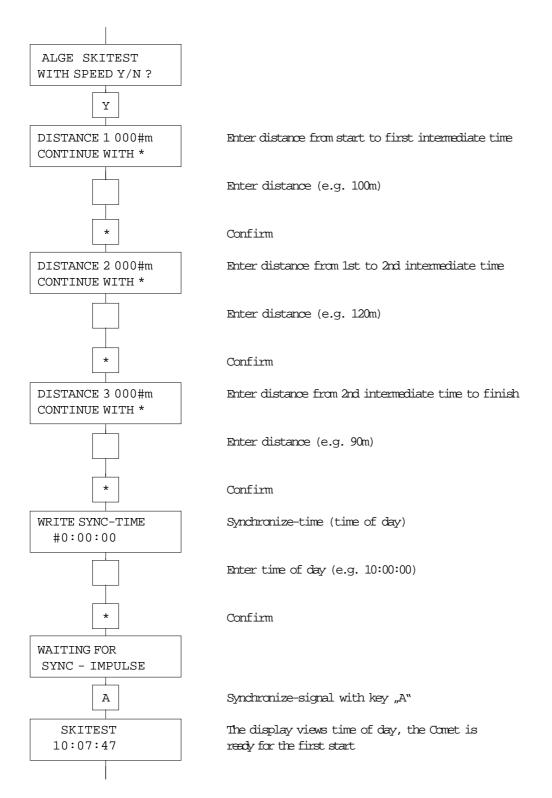
If a competitor does not reach the finish or misses a photocell, the next competitor has to wait until the maximum-time has elapsed.

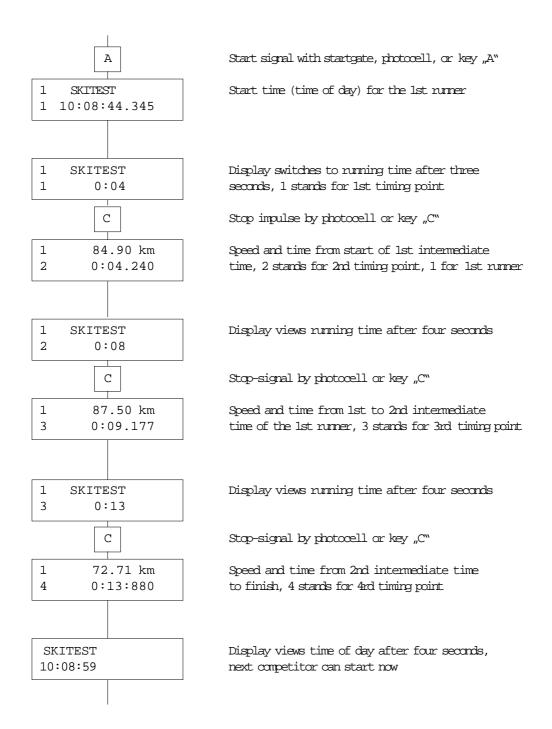
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TIME AND SPEED MEASUREMENT:

In this mode all times and speeds can be viewed on an ALGE scoreboard and in the display. All times will be stored, speeds however will not be stored in the Comet.









COMET Skitest

INTERFACE DATA

RS 232c interface:

2400 baud, 1 start bit, 8 data bit, no parity bit, 1 stop bit ASCII, duplex, hardware handshake

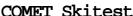
DATA RECORD:

Computer to Comet:

 $\label{eq:local_alger} $$ ALGE\#T(LF)(CR)$ order to transfer times stored in the Comet to the Computer $$ ALGE\#B(LF)(CR)$ order to transfer slope data from the Comet to the computer $$ ALGE\#B(LF)(CR)$ order to transfer slope data from the Comet to the computer $$ ALGE\#B(LF)(CR)$ order to transfer slope data from the Comet to the computer $$ ALGE\#B(LF)(CR)$ order to transfer times stored in the Comet to the Computer $$ ALGE\#B(LF)(CR)$ order to transfer times stored in the Comet to the Computer $$ ALGE\#B(LF)(CR)$ order to transfer times stored in the Comet to the Computer $$ ALGE\#B(LF)(CR)$ order to transfer times stored in the Comet to the Computer $$ ALGE\#B(LF)(CR)$ order to transfer slope data from the Comet to the Computer $$ ALGEB(LF)(CR)$ order to transfer slope data from the Comet to the Computer $$ ALGEB(LF)(CR)$ order to transfer slope data from the Comet to the Computer $$ ALGEB(LF)(CR)$ order to transfer slope data from the Comet to the Computer $$ ALGEB(LF)(CR)$ order to transfer slope data from the Comet to the Computer $$ ALGEB(LF)(CR)$ order $$ ALGEB(LF)(CR)$ order to the Computer $$ ALGEB(LF)(CR)$ order to the Computer $$ ALGEB(LF)(CR)$ order $$ ALG$

Comet to Computer:

1234#К##НН	:MM:SS.zht(LF)(CR)	Time
####TS#-12. ####HS##50 ####TA#-17.	YY#HH:MM(LF)(CR) 3(LF)(CR) .3(LF)(CR) 6(LF)(CR) .9(LG)(CR)	Snow temperate Snow humidity Air temperature
(LF)	line feed	
	carriage return	
K	chanal (1, 2 = start; 4, 8 = stop)	
нн	hours	
мм	minutes	
SS	secunds	
z	tenths of a second	
h	hundredths of a second	
t	thousandths of a second	
1234	continous run number	
TT	day	
XX	month	
YY	year	
TS	snow-temperature	
HS	snow-humidity	
TA	air-temperature	
HA	air-humidity	
#	space bar	



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ADJUSTMENT OF THE DISPLAY BOARD

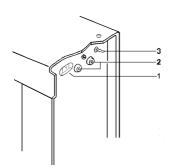
All stopped times and speeds can be displayed on ALGE display-boards GAZc.

Display-board for time:

thumb wheel switch on position 0 toggle switch in middle position

Display-board for speed:

thumb wheel switch on position 1 toggle switch in middle position



- 1 thumb wheel switch
- 2 banana psockets for data input
- 3 toggle swtch

Data cabel from the Comet to the display board:

030-10 (with power supply form the display board) 060-10 (2 line cable without power supply)

CABLE

Cable 000-xx Comet - Start:

Cable 002-xx

Comet - Intermediate Time: Cable 001-xx

Comet - Finish: Cable 001-xx

Cable 030-10 (2 lines, without power supply for Comet) Comet - Display Board:

Cable 060-10 (with power supply for Comet)

Comet - PC: Cable 066-03 (25 pin computer cable)

Cable 067-02 (9 pin computer cable)