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No.99MAH001B

Series No.543

ID-F125/150

Digimatic Indicator

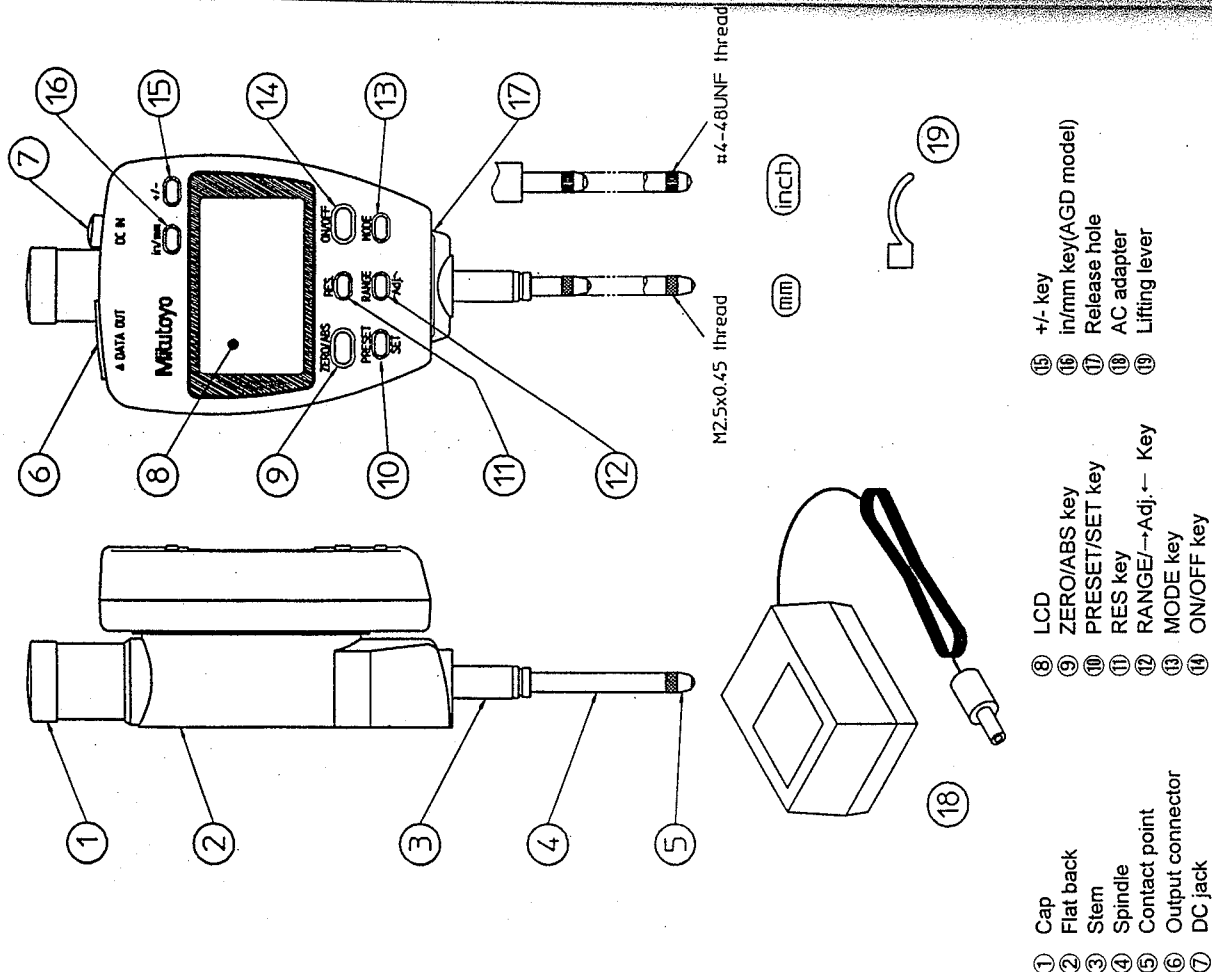
User's Manual

Read this User's Manual thoroughly
Before operating the instrument. After reading,
Retain it close at hand for future reference.

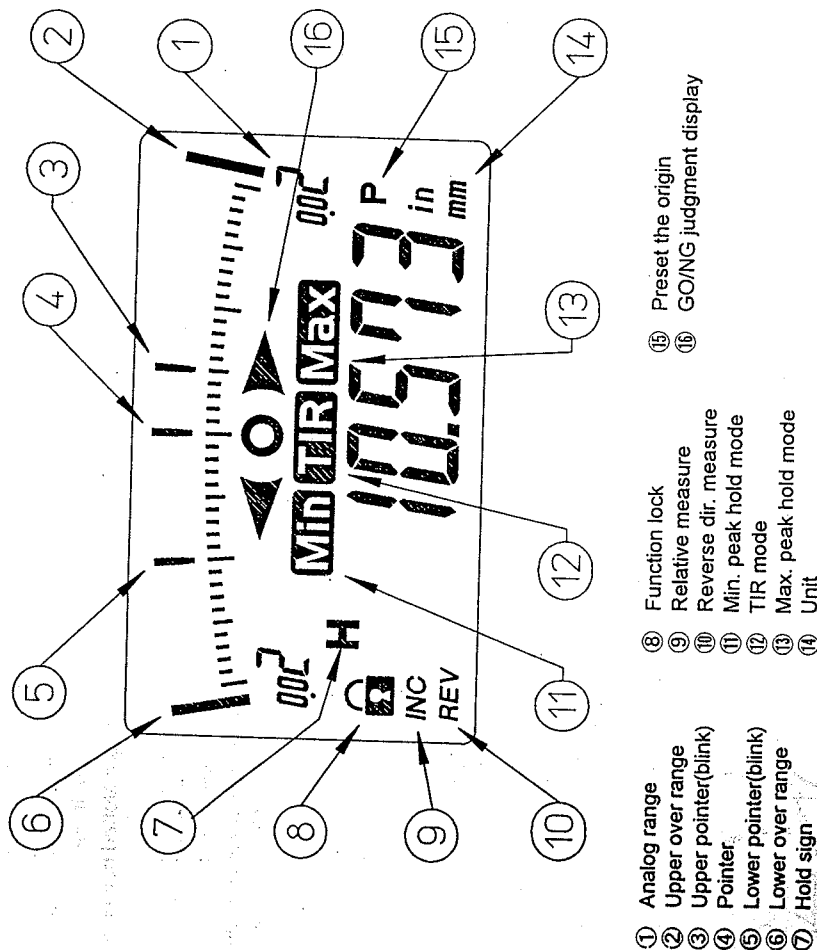
Mitutoyo

1 NAMES OF PARTS

1.1 Main Unit



1.2 Detail of LCD



• The pointers ③, ④ and ⑤ blink more quickly when two or more overlap.

• The parameters indicated by pointers ③ and ⑤ are determined by the measurement mode, as shown below.

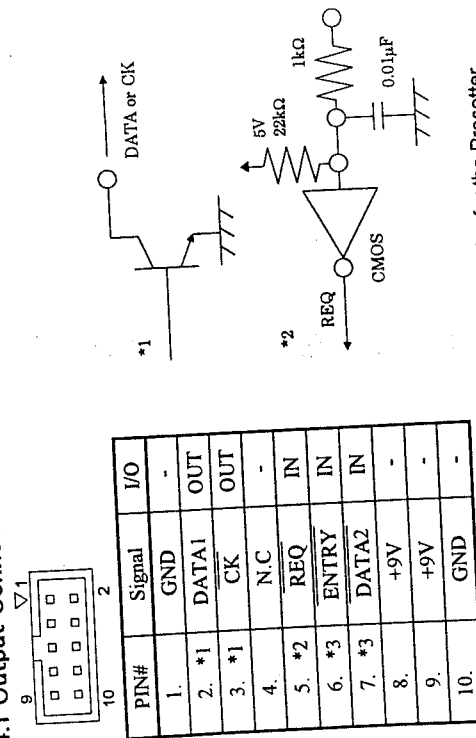
mode	Normal	Tolerance	Max. peak hold	Min. peak hold	TIR hold
③	(disappear)	Upper limit	Max. point	(disappear)	Max. point
⑤	(disappear)	Lower limit	(disappear)	Min. point	Min. point

4 DATA I/O

Using the M-SPC cable (sold separately), the instrument can be connected to the DP-IHS Digimatic Miniprocessor or similar data processors, to transfer, total and record measurement values.

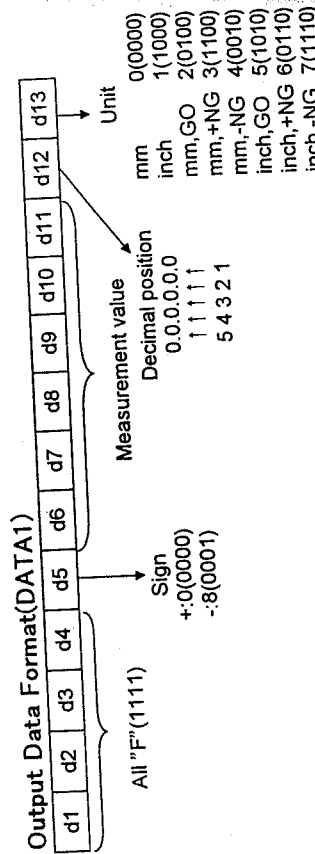
- Remove the output connector cover and insert the cable securely. (Place the cover in a bag and store it in a safe place).

4.1 Output Connector



*3: ENTRY and DATA2 are exclusive connector for the Presetter.

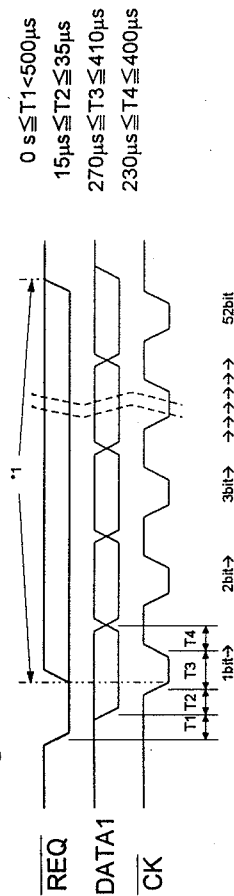
4.2 Output Data Format(DATA1)



For example., in case of output data as "2.471mm".

1111	1111	1111	1111	0000	0000	0100	0010	1110	1000	1100	0000	
F	F	F	F	8	0	0	2	4	7	1	3	0

4.3 Timing Chart



IMPOTANT

- Use only the output cable specified by Mitutoyo. Use of incompatible or deteriorated cables may result in data output failure.
- Before outputting data, read the manual that comes with the data processor carefully to ensure correct operation.
- Data output may be disabled if an output request (REQ) is received when the spindle is in motion, or if the output request interval is too short.

CAUTION

- To make an output request (REQ), hold the REQ signal at "Low" until "CK" is output. Return it to "High" before the final (52nd) "CK" bit is output.

4.4 Using the Digimatic Presetter

The instrument can use the optional Digimatic Presetter (No. 543-003; sold separately) to set preset values and limit values externally. The operation method is described in the manual for the Presetter. There are some differences in the instrument's operation when the Presetter is used, described below. Read these points when using the Presetter.

4.4.1 Setting Limit Values from the Presetter

- Once the Presetter has set the upper limit in the instrument, the instrument waits for input of the lower limit. Set the lower limit using the Presetter.
- When the lower limit has been set, the instrument enters tolerance determination mode.
- When the instrument is waiting for input of the lower limit, pressing the Presetter's [PASS] key cancels the limit settings and returns to the normal mode.

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