No. 99MAH050A2

(en

ABS Digimatic Indicator ID-CX

Safety Precautions

To ensure operator safety, use this product in conformance with the directions, functions and specifications given in this User's Manual. Use under other conditions may compromise safety.

WARNING

- · Always keep batteries out of reach of children. If swallowed, consult a physician immediately. · Batteries should never be short-circuited, disassembled, deformed or come in contact with extreme heat or flames
- · If battery alkaline liquid comes in contact with the eyes, flush eyes immediately with clean water and consult a physician. If battery alkaline liquid comes in contact with the skin, flush the exposed area thoroughly with clean water.

Never attempt to charge the primary battery. Never reverse the positive-negative terminals when mounting. Improper battery handling or mounting may cause the battery to explode, cause battery leakage and/ or serious bodily injury or malfunctioning

NOTICE

· Do not disassemble or modify. This may cause damage.

- · Do not use or store the product in a place with sudden temperature changes. Adapt the product to ambient temperature before use.
- · Do not store the product in a place with high humidity or a lot of dust. Also, avoid usage in places exposed to splashes of water or coolant.
- · Do not apply excessive force or subject to sudden impacts such as dropping.
- · Be sure to perform reference point setting before measurement.
- · Remove dust, cutting chips, etc. before and after use.
- · Do not write numbers, etc. with an electric pen. This may cause damage.
- · Do not operate the keys with a pointed object (such as a screwdriver or ballpoint pen).
- · Avoid loads in the vertical direction relative to the spindle or usage involving torsion to the spindle.
- . This product is shipped without installing a battery. Install a battery before use.
- . The battery supplied is for confirming the functions and performance of the product. Note that this battery may not fulfill the expected life.
- · When disposing of batteries, follow local laws, regulations, etc.
- · Malfunction or damage due to depleted batteries, etc. is not covered by the warranty.

Key icon operation



Contents

1.	Names and Dimensions of Components	Page 1
2.	Installing (Replacing) the Battery	Page 1
3.	Setup	Page 2
4.	Display Angle Adjustment	Page 2
	Power ON/OFF	
6.	Operation Modes	Page 3
7.	Switching Measurement System	Page 3
8.	Switching Unit System	Page 3
9.	Measurement Method	Page 3
10.	Setting Parameters	Page 4
11.	Precautions After Use	Page 6
12.	Error Displays and Countermeasures	Page 6
13.	Output Function	Page 6
14.	Specifications	Page 7
	Accessories (Optional)	
16.	Off-Site Repairs (Subject to Charge)	Page 7

1. Names and Dimensions of Components





50.8 mm stroke model

ID-C150XB, ID-C150MXB, ID-C150EXB, ID-C1050XB, ID-C1050MXB, ID-C1050EXB



⑦ Battery holder

 Output connector (with cap) ③ Display (LCD) ④[MODE] key/[MODE in/mm] key* *Except ID-C125XB, ID-C1025XB, ID-C150XB, and ID-C1050XB ⑤ [DATA ON/OFF] key 6 [SET] key

(1) Cap

8 Release mounting hole (with rubber cap) 9 Flat back (10) Stem

1) Spindle ① Contact point

Mitutovo

Display (LCD) 3 (4) (5) 1 (2)ന



 Reverse count display 	⑧ Tolerance judgment result display (+NG)	
② Function lock display	9 Preset display	
③ Low battery voltage display	1 Unit display	
④ INC display	 Measured value display 	
⑤ Calculation function display	(tolerance judgment enlarged display)	
⑥ Tolerance judgment result display (-NG)	1 Hold display	
⑦ Tolerance judgment result display (OK)	I Sign display	

2. Installing (Replacing) the Battery

NOTICE

· Be sure to use SR44 (silver oxide button battery, part No. 938882) for the battery.

- The product may display an error or malfunction if the battery holder is not mounted correctly. · If the product will be out of use for 3 months or more, remove the battery and store it
- separately, to prevent damage to the product due to battery fluid leakage. · Do not use a pointed object or excessive force to remove the battery holder. This may damage

the battery holder.



1 Use a flathead screwdriver or similar to remove the battery holder.

- 2 If replacing an existing battery, remove the old battery.
- 3 Insert a new battery into the battery holder with the "+" symbol facing the display (LCD).
- 4 Attach the battery holder.
- ⇒ [-----] display lights up.
- 5 Press the [SET] key twice.
- ⇒ Measurement mode (absolute measurement) starts.

Tips

- · If absolute measurement does not begin even after pressing the [SET] key twice, reinstall the batterv
- · All settings are cleared when the battery is removed. All settings must be reconfigured.

3. Setup

1) When used facing up

The product can be used in orientations up until the contact point becomes horizontal. The spindle will not return to the reference point, so when using the product with the contact point facing upward, replace the internal coil spring with a reverse orientation coil spring (optional).

Part No. 02ACA571 (25.4 mm stroke model)

Part No. 02ACA773 (50.8 mm stroke model)



Remove the five screws on the back using a #0 Phillips screwdriver, and then remove the back.
 Use tweezers or the like to pinch the spring attachment hooks in the order of (A) and (B), and then remove the coil spring.

3 Attach the new coil spring to the spring attachment pins in the order of (B) and (A).

4 Attach the back by tightening the five screws on the back using a #0 Phillips screwdriver.

Tips

· Do not forcibly pull the removed coil spring by hand.

- Using the product with the contact point facing downward with a reverse orientation coil spring
 installed will cause the measuring force in the specifications to increase.
- Store the removed coil spring to prevent loss.

2) Mounting to a stand, jig, etc.



- · Whenever possible, avoid fixing the stem directly with a set screw, etc.
- The spindle may not be able to move smoothly if the screw is tightened with a tightening torque of 300 cN•m or more to secure the stem.



Tips

When mounting the product to a stand or jig, use the stem or a back with lug (optional). If using the stem, use a slotted holder with a ø8 mm hole (ISO/JIS type) or ø9.52 mm hole (AGD type) with G7 (+0.005 to +0.02 mm).

3) Mounting the back (optional)

Various backs (optional) for dial gage can be used to secure the product.

Remove the four screws (excluding (A)) on the flat back.

2 Line the optional back up with the flat back, and then fix it using the screws that were removed in step 1.



4) Mounting the lifting lever



Fix the spindle, using pliers padded with a rag, etc., from the opposite side so that it does not turn.
 Insert the lifting lever into the spindle.
 Rotate the lifting lever to adjust the orientation.

5) Mounting the lifting knob (optional)

Part No. 21EZA197 (25.4 mm stroke model) Part No. 21EZA200 (50.8 mm stroke model)



- Using the product while the lifting knob is not secured firmly may damage internal components or the workpiece.
- Dust, mist, or other substances could enter the gap between the spindle and main body, causing
 malfunction or failure. Avoid using the product in very dusty or misty environments.

1 Rotate the cap counterclockwise to remove it from the product.

- Fix the spindle, using pliers padded with a rag, etc., so that it does not turn, and then insert the lifting knob to the screw (M2.5) on the upper edge of the spindle. During this process, push the spindle upward.
- 3 Turn the cap on the lifting knob to fix it to the upper edge of the bushing.

Tips

Store the removed cap to prevent loss.

6) Mounting the release (optional: part No. 540774)



• Always mount the rubber cap if a release is not mounted.

- The rubber cap is a screw-in type.
 - The product may be damaged if an item other than the release is inserted or if excessive force to push in is applied.
- Raising or lowering the spindle with the release while the release is not secured firmly may
 damage the internal components or the workpiece.



Tips

Store the removed rubber cap to prevent loss.
The spindle can be moved a maximum of 25.4 mm with the release.



7) Contact point replacement



When replacing the contact point, turn the contact point while fixing the spindle. Otherwise, the product may be damaged.



Mount and remove the contact point with a rag and 2 pairs of pliers (one for fixing the spindle) as shown in the figure.

Tips

- Changing the contact point may cause changes in external dimensions and measuring force, or restrictions on the possible measurement directions.
- Errors due to the contact point (perpendicularity of flat contact point, center runout of roller contact point, etc.) are added to the measurement accuracy.
- Various contact points are available as options. Refer to the Measuring Instruments Catalog for details.

4. Display Angle Adjustment



- Do not rotate beyond the stoppers at (A) and (B) positions. This may cause damage.
- Do not pull or push the display. This may cause damage.

The display can rotate up to 240° (A) clockwise or 90° (B) counterclockwise from the initial position. Adjust it to an angle from which it can be easily read.





Lifting knob

Mitutoyo

5. Power ON/OFF

1) Turning the power on

2) Turning the power off

⇒ Power turns off.



2 1 Press and hold the [DATA ON/OFF] key. Sata of

Tips

· The product always starts up in measurement mode when the power is turned on

- . The measurement system when the power is turned on is the same as it was when turned off. (Refer to "7. Switching Measurement Systems" for details about measurement systems.)
- If the power does not turn on even when the [DATA] key is pressed, the battery may be depleted. Replace the battery.
- · Turning the power off while making settings will cancel the setting and return the product to the status before setting.

6. Operation Modes

This product is equipped with the following two operation modes.

- · Measurement mode:
- This mode is used for tasks such as normal measurement, calculation measurement, tolerance judgment, holding displayed values, and outputting displayed values to an external device.
- · Parameter setting mode:
- This mode is used to set parameters.
- Refer to "10. Setting Parameters" for details on how to set parameters.

7. Switching Measurement Systems

Measurement mode includes the following two measurement systems.

· Absolute measurement (ABS): Measures the distance from a set (preset) reference point. The reference point can be set to any desired value to support a wide range of workpieces. · Incremental measurement (INC): Zeros the displayed value with the master and measures a



Press and hold the [SET] key. Measurement system switches.

Tips

The displayed value is simultaneously reset to zero when switching the measurement system from ABS to INC.

Key icon operation



8. Switching Unit System

Press the [MODE in/mm] key to switch the unit system between in (inches) and mm (millimeters).

For absolute measurement, first set (preset) the origin using the following procedure, and then

⇒ If in incremental measurement, switch the measurement system to absolute measurement.

A preset value can be set for normal measurement and calculation measurement respectively.

9. Measurement Method

1) For absolute measurement (ABS)

will be displayed.

preset value.

3 Setting the preset value

1 Press and hold the [SET] key.

can be changed.

3 Press the [SET] key.

diait blinks.

5 Press the [SET] key.

for all digits are confirmed.

and redo from step 3.

blink

Tips

Confirm that the product is in absolute measurement.

2 Press the [SET] key to start the origin setting (presetting). ⇒ [P] will blink and the previous preset value

⇒ Continue to step 4-3 if not changing the

⇒ The sign will blink and the preset value

2 Press the [MODE] key to change the sign.

 \Rightarrow Each time the [MODE] key is pressed,

⇒ The sign is confirmed and the neighboring

4 Press the [MODE] key to change the number.

⇒ Each time the [MODE] key is pressed, it will switch values in the order of "0→1→2...→9→0".

neighboring digit blinks. Press the [SET]

⇒ Confirming the last digit will cause [P] to

If the preset value is incorrect, press and hold the [SET] key

⇒ The number is confirmed and the

key again to skip over the digit. Repeat steps 4 and 5 above until the numbers

(Refer to "7. Switching Measurement Systems" for details.)

NOTICE

measure

When setting or presetting the origin, be sure to lift the spindle at least 0.2 mm above the bottom dead center.



E

0.2



Tins

- . The set preset value and origin are retained even when the power is turned off. However, they are cleared when replacing the battery and must be reset
- . The preset value is automatically converted when the unit system or resolution is changed. In this case, however, a conversion error may be produced. It is therefore recommended to check the preset value after changing the unit system or resolution.
- · Press and hold the [MODE] key to stop or cancel settings midway through.

2) For incremental measurement (INC)

4 Setting the origin (origin point)

Incremental measurement is used to measure the dimensional difference between the master (used as reference) and a workpiece.

- 1 Confirm that the product is in incremental measurement.
 - ⇒ If in absolute measurement , switch the measurement system to incremental measurement. (Refer to "7. Switching Measurement Systems" for details.)
- 2 Set the master to use for reference.
- 3 Press the [SET] key.
- ⇒ Displayed value is reset to zero.

4 Replace the master with the workpiece and perform incremental measurement.





3) Holding the displayed value (if not connected to an external device)

The displayed value can be held (fixed).

1 Press the [DATA] key.

- [H] will appear and the displayed value will be held (the displayed value will be retained even if the workpiece is removed).
- 2 Press the [DATA] key while the displayed value is held.
- \Rightarrow [H] will go out and the held displayed value will be released.



Tips

During tolerance judgment enlarged display, the Hold function will not work even if the [DATA] key is pressed.

Refer to "10.2) Setting Tolerance Judgment function" for details on the tolerance judgment enlarged display.

4) Externally outputting the displayed value (if connected to an external device)

This function is enabled only when connected to an external device. The display value is output to the connected external device.

1 Press the [DATA] key during measurement mode.

⇒ The displayed value is output to the connected external device.



Tips

- Refer to "13. Output Function" for details on installing connection cables, pin assignments, output data format, and timing chart.
- Carefully read the User's Manual of the data processing device to be connected when using the External Output function.
- If inputting an output request (REQ) from the connected external device, do so only when the spindle is stopped. If an output request (REQ) is received while the spindle is operating, it may output an incorrect value or data output may not be possible.
- If output requests (REQ) are received over short intervals, data output may not be possible.
- Data output using the [DATA] key is not possible during tolerance judgment enlarged display. The measured value is externally output only when an output request (REQ) from an external device is received.

10. Setting Parameters

There are five types of parameter items to set.



Tips

Press and hold the [MODE] key to cancel the parameter setting. Note that unconfirmed settings will not be reflected.

• All parameter settings are retained even when the power is turned off. However, they are cleared when replacing the battery and must be reset.

1) Setting counting direction

The counting direction can be set with regard to the spindle movement direction.



- Press and hold the [MODE] key to enter parameter setting mode.
 ⇔ Shifts to parameter setting mode.
- 2 Selecting the parameter item to set 1 Confirm that [dir.] is blinking.
 2 Press the [SET] key.
 ⇒ Counting direction can be set.
- 3 Setting the counting direction
- I Press the [MODE] key to select the counting direction.
 [♥] off: Counts up when the spindle is raised.
 [♥] blinking: Counts down when the spindle is raised.
 Each time the [MODE] key is pressed, it will switch the counting direction between up and down.
 2 Press the [SET] key.
- Settings are confirmed; shifts to next parameter item. (Proceed to step 3 in "2) Setting Tolerance Judgment function".)



The tolerance values can be set to provide a GO/NG judgment (pass/fail judgment) for the measured value. Tolerance values can be set independently for ABS/INC measurement systems and normal/calculation measurement (total of 4 types).



- B: Normal display
- C: Enlarged display
- 2 Press the [SET] key. ⇒ Selection is confirmed.
 - If "Normal display" or "Enlarged display" was selected:
 - Selected.
 I blinks and the upper limit can be set.
 - To skip setting the upper limit, press the
 - [SET] key again (proceed to step 6).
 - If [oFF] was selected:
 - 0.001 mm models

Proceed to step 2 in "3) Switching resolution" 0.01 mm models

Proceed to step 2 in "4) Setting Calculation function".

Key icon operation



745

3 -1

di r

ʻdir,

tal

12345

40Þ

+0000000



Proceed to step 2 in "4) Setting calculation function".

Tips

- . If the upper limit is set below the lower limit, the error display [Err 90] appears and the set value is cleared. Clear the error display by pressing the [SET] key and amend the settings, starting with the upper limit. (Refer to "12. Error Displays and Countermeasures")
- The tolerance values cannot be set for "normal display" and "enlarged display" separately
- · The tolerance limit values are automatically converted when the unit system or resolution is changed. In this case, however, a conversion error may be produced. It is therefore recommended to check the tolerance limit values after changing the unit system or resolution.
- · Press and hold the [MODE] key to stop or cancel settings midway through. Note that unconfirmed settings will not be reflected.
- · All settings are retained even when the power is turned off. However, they are cleared when replacing the battery and must be reset.

Key icon operation



3) Switching resolution (0.001 mm or 0.00005 in models only)

The resolution setting can be changed for 0.001 mm or 0.00005 in models only.

1 Press and hold the [MODE] key to enter parameter setting mode. ⇒ Shifts to parameter setting mode. 2 Selecting the parameter item to set 1 Press the [MODE] key until [rES.] is displayed. 2 Press the [SET] key. ⇒ Resolution can be set. 3 Setting the resolution 1 Press the [MODE] key to select the resolution. 3 -1 ⇒ Each time the key is pressed, it will switch the resolution in the order as follows: For mm display: 0.001 mm→0.01 mm→0.001 mm For inch display: $0.00005 \text{ in} \rightarrow 0.0001 \text{ in} \rightarrow 0.0005 \text{ in}$ →0.00005 in 2 Press the [SET] key.

5-1 🛵

S-3

5 -5

⇒ Settings are confirmed; shifts to next parameter item. (Proceed to step 2 in "4) Setting Calculation function".)

4) Setting Calculation function

In addition to normal measurement, this product can also perform calculation measurement, in which results are displayed by multiplying the spindle movement amount by a calculation coefficient. The calculation method differs as follows for each measurement system (ABS/INC). Absolute measurement (ABS): Displayed value = (preset value) + (calculation coefficient) x

000°I)

00

[8]

0.00005) **4**

000

0.000

- (spindle movement amount)
- · Incremental measurement (INC): Displayed value = (calculation coefficient) x (spindle movement amount)





Tips

The calculation coefficient can be set to a value between 0.0001 and 99.9999.



• Calculation coefficient is not converted even when the unit system or the resolution is switched. • If the calculation coefficient is set to 0.0000, [Err 00] is displayed.

Clear the error display by pressing and holding the [SET] key and amend the settings with the correct value. (Refer to "12. Error Displays and Countermeasures")

5) Executing/canceling Function Lock function

This product has a Function Lock function which ignores origin operation in order to avoid accidentally changing the origin. When function lock is executed, [] will appear on the display and operations other than turning the power on/off, holding/releasing the displayed value, outputting the displayed value, and canceling the Function Lock function will be disabled.

Executing Function Lock function

- Press and hold the [MODE] key to enter parameter setting mode.
 ⇔ Shifts to parameter setting mode.
- 2 Selecting the parameter item to set
 1 Press the [MODE] key until [Fn-Loc] is displayed.
- 2 Press the [SET] key. ⇔ Function Lock function can be set.
- Setting the function lock function
 Press the [MODE] key and select execute (on).
- Press the [INDE] key and select execute (n).
 2 Press the [SET] key.
 ⇒ Settings are confirmed; shifts to next parameter item.
 (Proceed to step 2 in "1) Setting counting direction".)

Tips

- The Function Lock function is executed as soon as parameter setting is confirmed and the product returns to measurement mode.
- To set an item for which the function has been locked, first cancel the Function Lock function.

Canceling Function Lock function

- Press and hold the [MODE] key to enter parameter setting mode.
 ⇔ Shifts to parameter setting mode [Fn-Loc].
- 2 Press the [SET] key to confirm the parameter item (function lock) to set.
- ⇒ Function Lock function can be set.
- Setting the function lock function
 Press the [MODE] key and select cancel (oFF).
 Press the [SET] key.
 - Settings are confirmed; shifts to next parameter item. (Proceed to step 2 in "1) Setting counting direction".)

Key icon operation



11. Precautions After Use

- When cleaning, wipe this product with a soft cloth moistened with diluted neutral detergent. Do not
 use an organic solvent such as thinner, which may cause the product to deform or malfunction.
- Dirt on the spindle may lead to malfunction. Clean with a cloth moistened with alcohol, etc. before use.
- Do not lubricate the spindle with lubricating oil, etc.
- If the product is to be out of use for 3 months or more, remove the battery before storage. Liquid leakage from the battery may damage the product.
- Do not store the product in a place with a high temperature or humidity, or a lot of dust or oil mist.

12. Error Displays and Countermeasures

12345

di r

Fn-Loc

Foroff

thian

12345

Farlac

Forgo

Fn-off

dı r.

3-2

2 -2

3 -1

🔍 🖪 -2



13. Output Function

1) Externally outputting the displayed value

The product can be connected to an optional external display, external printer, PC, etc. The displayed value can be output to a device supporting Digimatic output format by connecting the product and the external device with a connection cable (optional).

- Press the [ON/OFF] key to turn off the product.
- 2 Connecting the product and the external device
- 1. Remove the cap of the output connector of the product.
- 2. Connect the product and the external device with a connection cable.



Tips

- Two types of connection cables (optional), part No. 905338 (1 m) and part No. 905409 (2 m), are available for this product.
- When connecting a connection cable, pay attention to the connector direction as you insert it.
- Store the removed cap to prevent loss.
- Always install the cap if a connection cable is not used.







4) Timing chart



*1 Keep REQ at Low until CK is output. Return it to High before the final CK output is completed (52nd bit).

14. Specifications

Individual specifications Model Name ID-C125XB ID-C125MXB ID-C125EXB Code No. 543-470B 543-471B 543-472B Measuring range 25.4 mm 25.4 mm/1 in 0.001/0.01 mm Resolution 0.001/0.01 mm 0.00005/0.0001/0.0005 in Error of indication for the total measuring range 0.003 mm 0.003 mm/0.0001 in MPE_E *1 Hysteresis MPE_H *1 0.002 mm 0.002 mm/0.0001 in Repeatability MPE_R *1 0.002 mm 0.002 mm/0.0001 in 3/8 in DIA (ø9.52 mm) Stem ø8 mm Carbide (M2.5 x 0.45) Carbide (No.4-48UNF) Contact point Measuring force MPL ≤1.8N Mass 185 g 185 g 190 a Model Name ID-C1025XB ID-C1025MXB ID-C1025EXB 543-474B 543-475B 543-476B Code No. 25.4 mm/1 in Measuring range 25.4 mm 0.01 mm Resolution 0.01 mm 0.0005 in Error of indication for the 0.02 mm/0.001 in 0.02 mm total measuring range MPE_F *1 Hysteresis MPE_H *1 0.02 mm 0.02 mm/0.001 in Repeatability MPE_R *1 0.01 mm 0.01 mm/0.0005 in Stem ø8 mm 3/8 in DIA (ø9.52 mm) Contact point Carbide (M2.5 x 0.45) Carbide (No.4-48UNF) Measuring force MPL ≤1.8N Mass 185 g 185 g 190 g Model Name ID-C150XB ID-C150MXB ID-C150EXB Code No. 543-490B 543-491B 543-492B Measuring range 50.8 mm 50.8 mm/2 in 0.001/0.01 mm Resolution 0.001/0.01 mm 0.00005/0.0001/0.0005 in Error of indication for the total measuring range 0.005 mm 0.005 mm/0.0002 in MPE_F *1 Hysteresis MPE_H *1 0.002 mm 0.002 mm/0.0001 in Repeatability MPE_R *1 0.002 mm 0.002 mm/0.0001 in 3/8 in DIA (ø9.52 mm) Stem ø8 mm Carbide (M2.5 x 0.45) Carbide (No.4-48UNF) Contact point Measuring force MPL ≤2.3N 265 g Mass 260 g 260 g ID-C1050XB ID-C1050MXB ID-C1050EXB Model Name 543-494B 543-495B 543-496B Code No. Measuring range 50.8 mm/2 in 50.8 mm 0.01 mm 0.01 mm Resolution 0.0005 in Error of indication for the 0.04 mm/0.0015 in total measuring range 0.04 mm MPE_F *1 Hysteresis MPE_H *1 0.02 mm 0.02 mm/0.001 in Repeatability MPE_R *1 0.01 mm 0.01 mm/0.0005 in Stem ø8 mm 3/8 in DIA (ø9.52 mm) Contact point Carbide (M2.5 x 0.45) Carbide (No.4-48UNF) ≤2.3N Measuring force MPL 260 g 260 g 265 g Mass

Common specifications

Plunger direction	Up to direction in which spindle is horizontal
Protection level *2	IP42 *3
CE marking	EMC Directive: EN 61326-1 Immunity test requirement: Clause 6.2 Table 2 Emission limit: Class B RoHS Directive: EN IEC 63000
Power supply	SR44 silver oxide battery (1 pc., No. 938882, battery life: about 7000 hours in continuous service)
Scale	Electrostatic capacitance type absolute linear encoder
Temperature range	Operation: 0 °C to 40 °C, storage: -10 °C to 60 °C
Standard accessories	User's Manual with warranty, Quick Reference Manual, inspection certificate, SR44 battery (1 pc.), lifting lever (137693)

*1: During normal measurement at 20 °C.

*2: The protection level (IP: International Protection) is based on IEC 60529/JIS C 0920.

*3: Values are for factory default conditions.

*4: The battery life varies depending on usage times and conditions. The above values are guidelines.

15. Accessories (Optional)

· Lifting knob: Part No. 21EZA197 (25.4 mm stroke model)

· Lifting knob: Part No. 21EZA200 (50.8 mm stroke model)

· Release: Part No. 540774

· Reverse orientation coil spring: Part No. 02ACA571 (25.4 mm stroke model)

· Reverse orientation coil spring: Part No. 02ACA773 (50.8 mm stroke model)

Connection cable: Part No. 905338 (1 m, flat straight)

Connection cable: Part No. 905409 (2 m, flat straight)

*For accessories (optional) other than the above, refer to the Measuring Instruments Catalog.

16. Off-Site Repairs (Subject to Charge)

Off-site repair (subject to charge) is required in the case of the following malfunctions. Contact your nearest dealer or our sales office. • Poor spinlel operation • Poor accuracy • [E] is displayed as the last digit when the spindle is stationary • Abnormal measured value or LCD trouble • No recovery from [Err 40] • Power will not turn on

*If the fundamental structural components or multiple components need to be replaced, we reserve the right to decline the repair.