

LH72

Initial Setup Manual



Initial Setup Flow



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Preparations before making the initial setting (1/2)

By confirming the conditions of use in advance, the setting operation can be performed easily. Let's start with the basic settings.

Basic Setting Items

Items	Indication	Description	Setting
Addition display	888 2 888	Selection of addition axis, addition conditions, etc. If you select LATHE (lathe function) in the type selection, this item will appear.	2: No addition, count value of the 2nd axis 3: No addition, count value on the 3rd axis 2 Add 3: Count value of 2nd axis + 3rd axis 2 Add -3: Count value of 2nd axis-3rd axis -2 Add 3: 3rd axis-2nd axis count value -2Add-3: -2nd axis -3rd axis count value
Destination country	HH 5 7 d H H	Please select the region to be used. (Displayable units)	Std: General Area mm, inch US: U.S.A. mm, inch JPN: Japan mm
Measuring unit resolution	98880580	Set the resolution output from the measurement unit to be used for each axis. The resolutions that can be selected are length and angle. Expanded selections increase the number of options.	Length: 0.05 to 100µm *See Tables 1, 2 and 3 or Angle: 1 second to 1 degree
			*Angular resolution (1sec to 1 degree) when using a rotary scale

Table1: Length scale output resolution

Measuring Unit	Output resolution	connection cable	Adapter *
SR-1711 SR-1711R	0.5µm	HK-**C HK-**CR	SZ05-T01
SR801/ MSS-101 SR801R	0.5µm	HK-1**C HK-2**C	SZ05-T01
SR801/ MSS-101 SR801R	0.5µm	CE07-**C	SZ51-MS01 + SZ70-1
SR10 / SR30 / SR50 SR50-R	0.5µm	HK-4**C HK6-**CR	SZ05-T01
SR118	0.5µm	CE05-**C CH02-**	DZ51 + SZ70-1
SR108 SR107	0.5µm		SZ51-MS01 + SZ70-1
SR128	0.5µm	CH01-**C	SZ70-1
SR128 / SR127	0.5µm	CH01-LW**C	SZ51-MS01 + SZ70-1
SR138R(GB-ER)	0.5µm	CH04-03C	

Table 2: Digiruler output resolution

Measuring Unit	Output resolution	Adapter/ conversion cable	Adapter *
SL110 SL130	10µm	PL20B	SZ70-1
SL110 SL130	10µm	PL20C	
SJ300	1µm	CH33-**CPD/CED	
SJ700	5µm		SZ70-1
SJ700A	5µm		

Table3: Digital gage output resolution

Measuring Unit	Output resolution	Adapter/ conversion cable	Adapter *
DG-B	0.5µm	DZ-51	SZ70-1
DL310B/330B	10µm	DZ-51	SZ70-1
DK series	0.1μm or 0.5μm	CE29-**	

^{*} For adapter information, refer to Appendix 2 Adapter Connection in this Manual

Preparations before making the initial setting (2/2)

Check the usage conditions for Detailed Settings.

(Since the setting conditions can be changed later, use the default values to skip items for which the conditions have not been confirmed)

Detailed Setting Items

Items	Indication	Description	Setting
Display resolution and polarity		Sets the resolution to be displayed for each axis. A value lower than the input resolution cannot be set. Selects the value for each axis, including the polarity (+/-). The default value is set by the basic setting.	Length: 0.05 to 100µm or Angle: 1 second to 1 degree
Scaling 5[AL ING	BH000000	Displayed by multiplying the measured value by the magnification	0.1 times to about 10 times
Error compensation	Err OFF	Setting of linear compensation and segmented error compensation	Err OFF: off Lin Err: linear compensation ±600µm/m *Expanded selections ±1000µm/m SEG Err: segmented error compensation
FLICER	8888888	Flicker prevention function for the smallest display digit	OFF: Function stop 1: Weak 2: Strong
Sleep 5LEEP	BBOFFBB	The display turns off when there is no movement of the length measurement unit or key operation for a certain period of time while the power is on. It will return when the length measurement unit is moved or the Key operation is performed again.	OFF: Do not put to sleep 1: 1 minute later 5: 5 minutes later 10:10 minutes later 30:30 minutes later 60: 60 minutes later

How to set up Basic Settings (1/3)



Configure the basic settings.

Choose one of the following methods of operation.

Note:

If you change the basic settings,

Detailed Settings will be reset to the factory defaults.

When the power is turned on for the first time after shipment from the factory

Connect the AC adapter and turn the primary power "on".

When you want to change the basic settings

AC adapter is energized.

Turn on key, the LED light changes from

"blinking" to "off" and then press

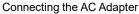
and hold

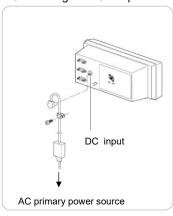
key for 3 seconds.

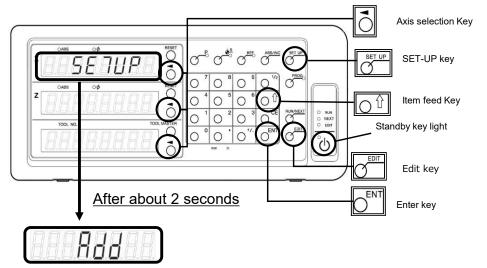


The following display appears





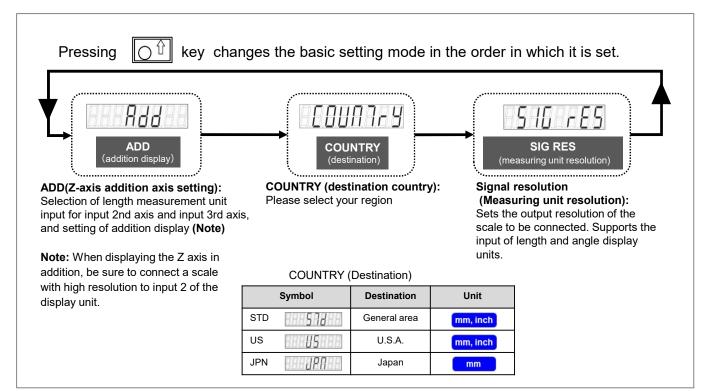




LH72 (3 axes input)

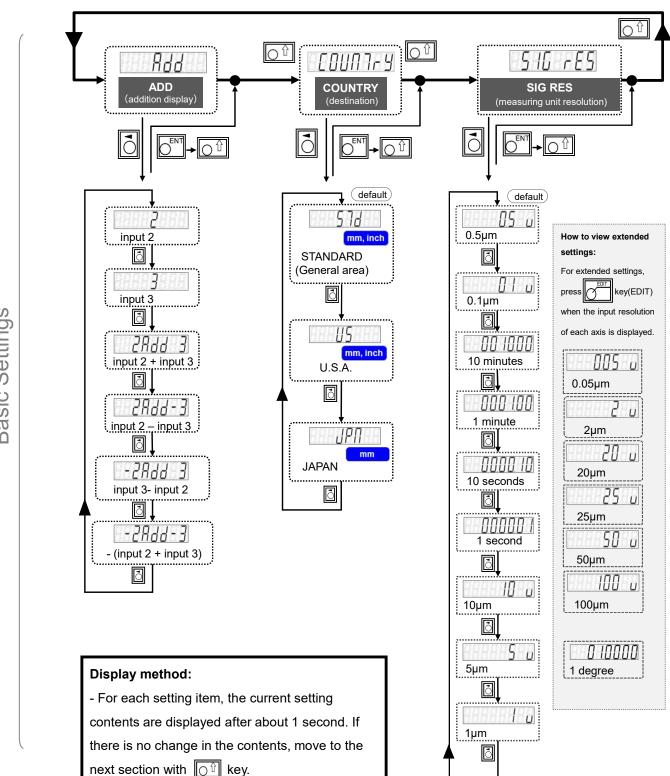
Continued on next page





Enter the settings confirmed in "Preparations before making initial settings (1/2)". Repeat steps (1), (2), and (3) to make the basic settings.

- (1) Use key to change the basic setting item.
- (2) The setting selection can be switched with key on the right side of the counter display.
- (3) To define the new value, press

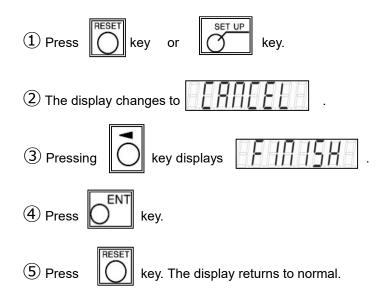


How to set up Basic Settings (3/3)

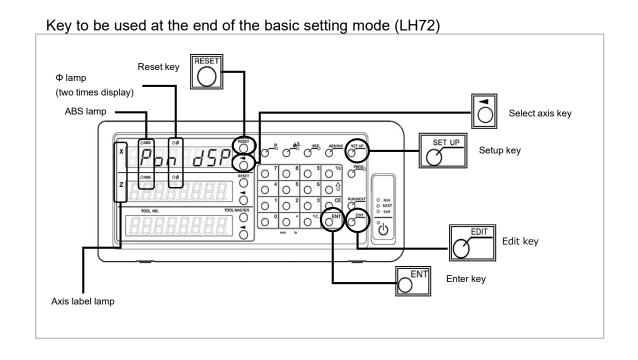


Once you have completed the basic settings, exit this mode and move to Detailed Setting mode.

How to Exit Basic Setting Mode



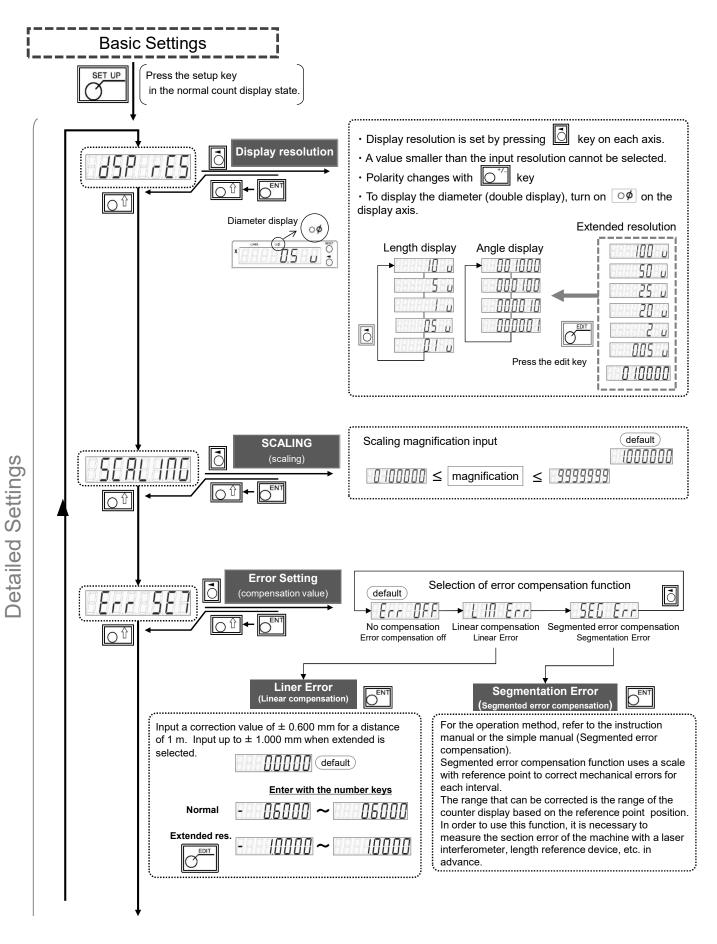
This completes the basic settings.

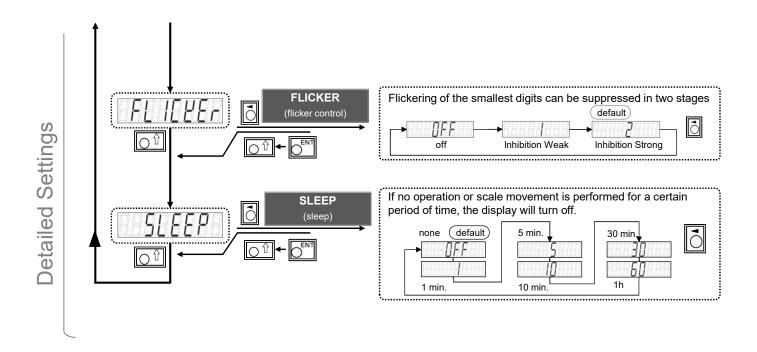


How to set up Detailed Settings (1/1) (continued from Basic Settings)

Step 4 Make the detailed settings.

*If you have already completed the basic settings and want to reconfigure only the advanced settings, you can do the same.







When the Detailed Settings are complete, switch to the normal display.

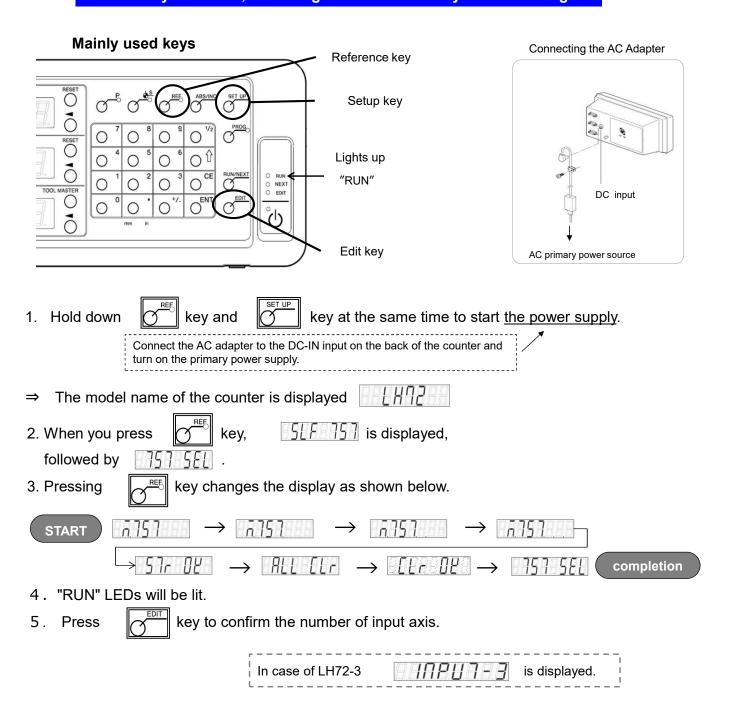
Press key.

This completes the initial settings..

Factory Default (All Clear)

To set the factory settings (all clear), perform the following operations. Make preparation such as taking notes in advance for necessary items. Also, do not perform any operation other than the explanation.

Caution: If you do this, all settings will be the factory default settings.



6. Turn off the primary power supply of the AC adapter.

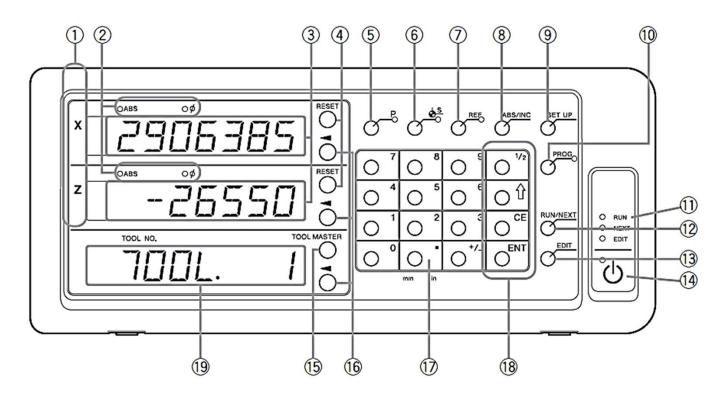
How to check the software version:

Power ON → Display LH → Key → Version

Press any key to return to the LH display.

Appendix 1

Front panel



No.	Name	No.	Name	No.	Name
1	Axis label	8	ABS/INC key	15)	TOOL MASTER key
2	ABS lamp, Φ lamp	9	SETUP key	16	Axis select key
3	Counter display	10	PROG key	17)	Numeric key
4	RESET key	11)	Status lamp	18	Function key
(5)	P key	12	RUN/NEXT key	19	Tool coordinates (Tool number)
6	Datum point value setting key	13	EDIT key		
7	REF key	14)	Standby key		

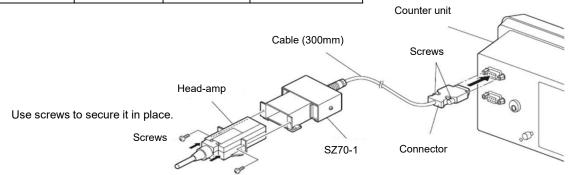
Alarm indication

Display	Status	Display	Status
	Measurement unit not connected	Blinking	Storage data error
	Speed over (Note)		Error in reference point detection
	Overflow		Program error
	Power failure		Program error

Note: When using an adapter connection (SZ**), no speed override indication is shown, but rather an error message.



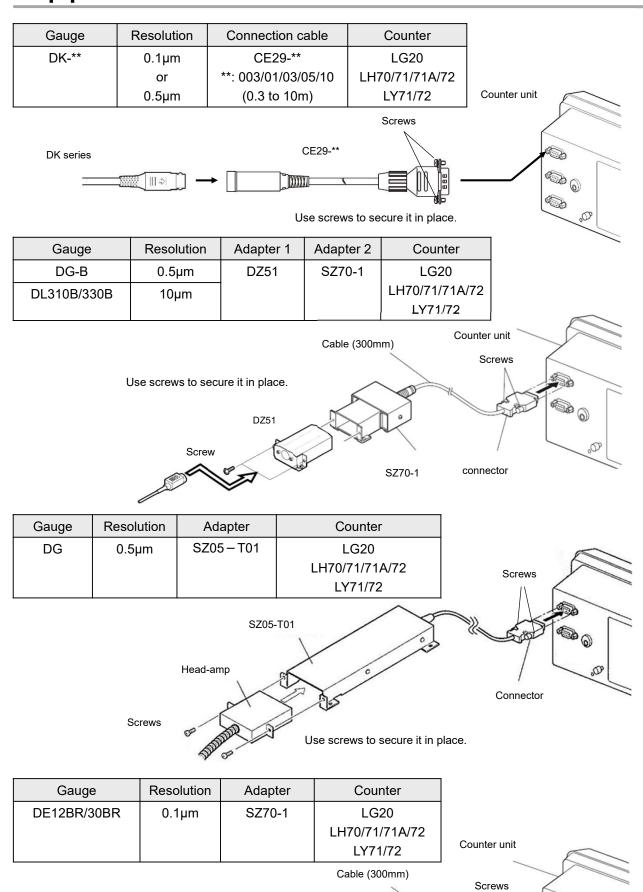
Scale/ Head	Resolution	Adapter	Counter
SR128(GB-A)	0.5µm	SZ70-1	LG20
PL20B	10µm		LH70/71/71A/72 LY71/72
SJ700	5µm		L171/72



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Scale/ Head	Resolution	Adapter 1	Adapter 2	Counter	
SR108(GB)	0.5µm	SZ51-MS01	SZ70-1	LG20	
PL20A	10µm	SZ51-DR01		LH70/71/71A/72	
				LY71/72	Counter unit
			Cal	ole (300mm)	
		Screws		SZ70-1	Screws
	~	SZ51-N	/IS01/SZ51-DR0	1 Use	screws to secure it in place.

Scale	Resolution	Adapter	Counter	
SR-1711(GP)、SR10A/741(GS)、	0.5µm	SZ05-T01	LG20	
SR50A(GF,GF-R)、SR30A(GM)、			LH70/71/71A/72	
SR801/801R(GL)			LY71/72	
* HA13A, 15A, 23A and 25A are used as head ar	mps		Screv	vs
Head-amp Screws	SZ05-T01 Use screws to	secure it in place	Connec	ctor

Appendix 2-2 Adapter connection (Digital gauge)



Use screws to secure it in place.