Magnescale
SPEED X PRECISION

LH70 Initial setup (Example)

Display unit: LH70-1 (1 axis input)
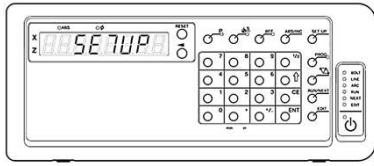
Measuring unit

SJ700A (1 axis)
Output resolution: 5µm
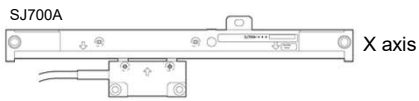
SJ700A

 X axis

Setting conditions   The detailed settings are the factory default settings.

	Setting items		Setting value (selection)	
Basic settings	TYPE	`TYPE`	1 axis model is not displayed	
	ADD(Addition display)	`Add`	1 axis model is not displayed	
	Destination	`COUN7rY`	(default) STD	`57d`
	Measuring unit resolution	`S1G rE5`	5µm	`5u`
Detailed settings	Display resolution* and polarity	`d5P rE5`	5µm	`5u`
	Display switching	`INPU7 CHANGE`	(default) Input 1:	`IN-1`
	Axis label	`LAbEL`	(default) Display: X	
	Compensation value	`Err SE7`	(default) No setting（OFF）	`Err OFF`
	Flicker control	`FL1C4Er`	(default) Strong　(2)	`2`
	Sleep	`5LEEP`	(default) No setting（OFF）	`OFF`

* The initial value is the measurement unit resolution set in the basic settings.

START

Set to basic setting mode

When the power is turned on for the first time after shipment from the factory	When you want to change the basic settings
Connect the AC adapter and Turn on the primary power supply (Not ⏻ key)	AC adapter is energized. Turn on ⏻ key, the LED light changes from "blinking" to "off" and then Press and hold SET UP key for 3 seconds.

AC primary power source

The following display appears

For LH70-1, LH70-2

`SE7UP` → `COUN7rY`

Power ON   About 2 sec

① When the display is `COUN7rY`, press the ○◁ key on the right side once.

The display will be `57d`. (Destination selection mode)

(If you want to change the destination, press ○◁ key.)

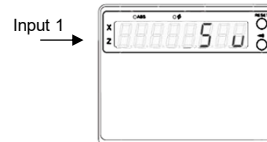When you have made your selection, press ○ENT to save your settings.

② Press ○⇧ key once.

The display will be `S1G rE5`. (Measurement unit resolution)

Press ○◁ key to check the current measurement unit resolution.

If the resolution is not 5µm, press ○◁ key to change it.

After checking the resolution, press ○ENT key to save the settings.

Input 1 →

Confirm that the resolution of input 1 is 5 µm (SJ700A scale).
* 10 µm "10U" for Digiruler PL20C

③ Switch from basic settings to normal count mode.

Press ○RESET key once and the display will change to `CANCEL`.

Press ○◁ key once and the display will change to `F1N15H`.

④ Press ○ENT key once to automatically switch to advanced settings mode.

The display will be `d5P rE5`. Press ○◁ key once.

Confirm that the display is `5u` display.
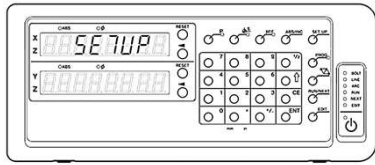
(Press ○+/− key to change the polarity)

When the selection is complete, press ○ENT key to save the settings.

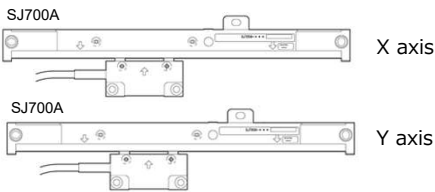When you press ○RESET key, the display becomes the normal display.

This completes the initial settings

Finished

Magnescale
SPEED X PRECISION

Display unit: LH70-2 (2 axes input)

Setting conditions
The detailed settings are the factory default settings.

	Setting items		Setting value (selection)	
Basic settings	TYPE	`74PE`	2 axes model is not displayed	
	ADD(Addition display)	`Add`	2 axes model is not displayed	
	Destination	`COUN7rY`	(default) STD	`57d`
	Measuring unit resolution	`516 rE5`	5μm	`5u`
Detailed settings	Display resolution* and polarity	`d5P rE5`	5μm	`5u`
	Display switching	`INPU7 CHANGE`	(default) Input 1: Upper display / Input 2: Middle display	`IN - 1` / `IN - 2`
	Axis label	`LAbEL`	(default) Upper : X , Middle : Y	
	Compensation value	`Err SE7`	(default) No setting（OFF）	`Err OFF`
	Flicker control	`FLICKEr`	(default) Strong （2）	`2`
	Sleep	`SLEEP`	(default) No setting（OFF）	`OFF`

* The initial value is the measurement unit resolution set in the basic settings.

Measuring unit
SJ700A (2 axes)
Output resolution: 5μm
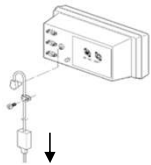
SJ700A   X axis

SJ700A   Y axis

START

Set to basic setting mode

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

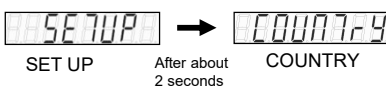Connect the AC adapter and Turn on the primary power supply

(Not [⏻] key)

AC primary power source

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 [SET UP] key for 3 seconds.

The following display appears

For LH70-1, LH70-2

`SE7UP` → `COUN7rY`

SET UP   After about 2 seconds   COUNTRY

① When the display is `COUN7rY`, press the [◀] key on the right side once.

The display will be `57d`. (Destination selection mode)

(If you want to change the destination, press [◀] key.)

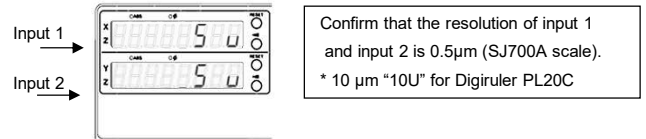When you have made your selection, press [ENT] to save your settings.

② Press [⇧] key once.

The display will be `516 rE5`. (Measurement unit resolution)

Press [◀] key to check the current measurement unit resolution.

If the resolution is not 5μm, press [◀] key to change it.

After checking the resolution, press [ENT] key to save the settings.

Input 1 →
Input 2 →

Confirm that the resolution of input 1 and input 2 is 0.5μm (SJ700A scale).
* 10 μm "10U" for Digiruler PL20C

③ Switch from basic settings to normal count mode.

Press [RESET] key once and the display will change to `CANCEL`.

Press [◀] key once and the display will change to `FINISH`.

④ Press [ENT] key once to automatically switch to advanced settings mode.

The display will be `d5P rES`. Press [◀] key once.

Confirm that the display is `5u` display.

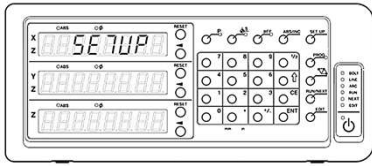(Press [+/-] key to change the polarity)

When the selection is complete, press [ENT] key to save the settings.

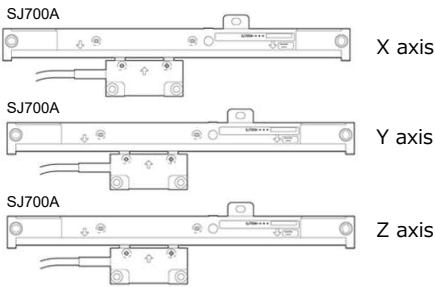When you press [RESET] key, the display becomes the normal display.

This completes the initial settings

Finished

Magnescale
SPEED X PRECISION

Display unit: LH70-3 (3 axes input)

Setting conditions
The detailed settings are the factory default settings.

	Setting items		Setting value (selection)	
Basic settings	TYPE	`7YPE`	GENERAL (General machine)	`GENErAL`
	ADD(Addition display)	`Add`	Not displayed when GENERAL is selected	
	Destination	`COUN7rY`	(default) STD	`57d`
	Measuring unit resolution	`51G rES`	5µm	`5 u`
Detailed settings	Display resolution* and polarity	`d5P rES`	5µm	`5 u`
	Display switching	`INPU7 CHANGE`	(default) Input 1: Upper display `IN-1` Input 2: Middle display `IN-2` Input 3: Lower display `IN-3`	
	Axis label	`LAbEL`	(default) Upper : X, Middle : Y, Lower : Z	
	Compensation value	`Err SE7`	(default) No setting（OFF）	`Err OFF`
	Flicker control	`FLICUEr`	(default) Strong　(2)	`2`
	Sleep	`SLEEP`	(default) No setting（OFF）	`OFF`

* The initial value is the measurement unit resolution set in the basic settings.

Measuring unit
SJ700A (3 axes)
Output resolution: 5µm

SJ700A X axis
SJ700A Y axis
SJ700A Z axis

START

Set to basic setting mode

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

Connect the AC adapter and Turn on the primary power supply
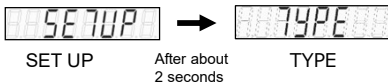
(Not ⏻ key)

AC primary power source

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 `SET UP` key
for 3 seconds.

The following display appears

For LH70-3

`SE7UP` → `7YPE`

SET UP   After about 2 seconds   TYPE

① When the display is `7YPE` , **press the** ⟨⬆⟩ **key once.**

The display will be `COUN7rY` . (Destination selection mode)

Press ⟨◀⟩ key on the right side once.

The display will be `57d` .

(If you want to change the destination, press ⟨◀⟩ key.)

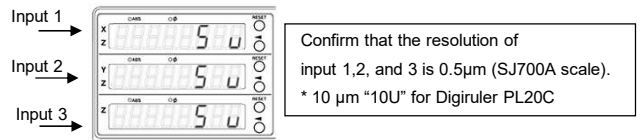When you have made your selection, press ⟨ENT⟩ to save your settings.

② Press ⟨⬆⟩ key once.

The display will be `51G rES` . (Measurement unit resolution)

Press ⟨◀⟩ key to check the current measurement unit resolution.

If the resolution is not 5µm, press ⟨◀⟩ key to change it.

After checking the resolution, press ⟨ENT⟩ key to save the settings.

Input 1
Input 2
Input 3

Confirm that the resolution of input 1,2, and 3 is 0.5µm (SJ700A scale).
* 10 µm "10U" for Digiruler PL20C

③ Switch from basic settings to normal count mode.

Press ⟨RESET⟩ key once and the display will change to `CANCEL` .

Press ⟨◀⟩ key once and the display will change to `FINISH` .

④ Press ⟨ENT⟩ key once to automatically switch to advanced settings mode.

The display will be `d5P rES` . Press ⟨◀⟩ key once.

Confirm that the display is `5 u` display.

(Press ⟨+/−⟩ key to change the polarity)

When the selection is complete, press ⟨ENT⟩ key to save the settings.

When you press ⟨RESET⟩ key, the display becomes the normal display.

This completes the initial settings

Finished