LAC-17 MAINTENANCE MODE Contents

I. How to enter Maintenance Mode	3
II. How to select menu	3
III. Reset	4
1. SYSTEM	4
1-1. VERSION	
1-3. SERIAL NUMBER SETTING	
1-4. ADMINISTRATOR MODE PASSWORD 1-5. BACKUPDATA UPLOAD	
1-6. BACKUPDATA DOWNLOAD	
1-7. DENOM.DATA UPLOAD 1-8. DENOM DATA DOWNI OAD	
2 DATA SET	
2.1. OPTION	
2-2. MEMORY SWITCH	
2-3. LAN I/F	
2-5. DENOM. DATA INITALIZATION	
2-6. USER DENOM. DATA INITALIZATION	
3. LOGGING 3-1 TOTAL OPERATION HOURS	
3-2. TOTAL WRAPPING ROLLS	
3-3. TOTAL COUNT COINS	
3-5. TOTAL ROLL HEIGHT REJECT	
3-8. MATERIALREJECT	
3-9. LIFE COUNTER	
3-11. SENSOR LOG DATA SAVE	
4. DATA CLER	
4-1. TOTAL OPERATION HOURS LOG	
4-11. LIFE COUNTER SET	
4-13. CONTROL DATA	
4-14. ALL BACK UP DATA 4-15. LANGAGE DATA	
5 TEST	45
5-1. SENSOR	
5-2. DRIVE	
5-4. MACHINE MODE	
6. ADJUSTMENT	51
6-1. THICKNESS BLOCK HEIGHT	
6-2. SORTING TRACK WIDTH	
6-4. STACK WIDTH	
6-5. Supplement of THICKNESS BLOCK	57
6-7. WRAPPIN UNIT SENSOR	
6-8. WRAPPIN ROLLER POSITION 6-9. COIN TABLE REMAIN	58 59
6-10. CHANGE DENOM. INFO	
6-11. WHEEL PAD SENSITVITY	60 £1

7. MEMORY	67
7-1. Memory Dump	67
7-2. Memory Write	67
7-3. Memory Jump	68
8. DENOM. DATA UPDATE PROCEDUR	69
9. BOARD REPLACEMENT PROCEDURE	70
10. DENOM. DATA SPECIFICATION	71

I. How to enter Maintenance Mode

- (1) Enter SETTING Screen.
- (2) While pressing START/STOP key, press F2 key one time, press F3 key one time, press F4 key 5 times.
- (3) Press C key to go to SETTING Screen.

SETTING 🔳 Display i)) Buzzer œ Date 6 6 Language Coin Roll Height 1 Down load 8 Administrator 🔎 Exit Δ

II. How to select menu

(1) Press F1 / F2 key or Jog-dial to select the menu.

Selected menu is inverted.

Press C key to back to previous Screen.

(2) Press START/ STOP key to execute.

MAINTENANCE	
1.SYSTEM	
2. Data set	
3.LOGGING	
4. Data clear	
5. TEST	
6. Adjustment	
7. Memory	

Menu	Contents		
1. SYSTEM	Indication of FW version, Specification Data and Update		
2. DATA SET	Internal Setting for memory switch.		
3. LOGGING	Indication of logging data.		
4. DATA CLEAR	Clearing of the memory data.		
5. TEST	Testing of the sensors and drives.		
6. ADJUSTMENT	Performing various adjustments.		
7. MEMORY	Indication of memory data and download		

III. Reset

When any setting is done such as memory switch, I/F setting , currency data, any ajustment or test, the display may indicate RESET CONFIRMATION screen before goin back to operation mode.

- (1) Press START/ STOP key to reset the mchine.
- (2) Press C key to go back to MAINTENANCE Screen.

In case the display go back to Operation mode after termination of item, it automatically performs RESET CONFIRMATION without indicating the right screen. RESET CONFIRMATION

You changed the following contents. MEMORY SWITCH LAN I/F DENOMINATION DATA DRIVE TEST ADJUSTMENT Are you sure you want to reset?

[START/STOP] : Yes [C] : Cancel

1. SYSTEM

- (1) Select SYSTEM form MAINTENANCE menu.
- (2) Press START/STOP key and the display indicates the menu.

Press C key to go back to MAINTENANCE Screen.

Selected menu is inverted.

1.SYSTEM

- 1.VERSION
 - 2. INSTALL
 - 3.SERIAL MACHINE NUMBER
- 4. ADMINISTRATOR MODE PASSWORD
- 5. BACKUPDATA UPLOAD
- 6. BACKUPDATA DOWNLOAD
- 7. Denom. Data Upload
- 8. DENOM. DATA DOWNLOAD

Δ

Menu	Contents
1.VERSION	Indication of FW version, date of update.
2.INSTALL	Updating of FW or Specification Data
3.SERIAL MACHINE NUMBER	Setting of Machine Serial Number.
4.ADMINISTRATOR MODE PASSWORD	Setting of Administrator Password.
5.BACKUPDATA UPLOAD	Uploading Back up data to CF card.
6.BACKUPDATA DOWNLOAD	Downloading Back up data fromCF Card.
7.DENOM.DATA UPLOAD	Uploading Currency Data to CF card.
8.DENOM.DATA DOWNLOAD	Downloading Currency Data from CF Card.

1-1. VERSION

- (1) Select VERSION form SYSTEM Screen and press START / STOP key.
- (2) Press F1 or F2 to scroll the screen.
- (3) Press C key to go back to SYSTEM Screen.

	S ****	(09/01/2013)
1-1.VERSION		(2/2
1QD-001 P	.C.B.	
Progra	m :CJ5P****	(09/01/2013)
Patter	n :CJ5DEU**	(09/01/2013)
Boot.	: CJ5B****	(09/01/2013)

Description of Version

Dooonplion of Ve		
Board	Firmware Name	Version (Issue Date)
1PZ-001 PCB	Display Firmware	LAC017LDxx(MM.DD.YYYY)
1PZ-002 PCB	Main Firmware	LAC017LSxx(MM.DD.YYYY)
-	Denomination Data	Axxxxx (MM.DD.YYYY)
1QD-001 PCB	Validator Firmware	CJ5Pxxxx (MM.DD.YYYY)
	Currency Pattern	CJ5Dxxxx (MM.DD.YYYY)
	Boot Program	CJ5Bxxxx (MM.DD.YYYY)
	Validator FPGA	CJ5Fxxxx (MM.DD.YYYY)

1-1. VERSION

1PZ-001 P.C.B.

1PZ-002 P.C.B.

Denomination Data

xx: indicates correspond version .

Note) In case Denomination Data is not downloaded, it indicates "NO Data". Note) In case Validator Firmware is damaged, it indicates "Unknown".

(1/2)

LAC017LD** (09/01/2013)

LAC017LS** (09/01/2013)

1-2. INSTALL

press START / STOP key.

The display indicates INSTAL menu.

Note) Above screen is for LAC-17ID. In case LAC-17, it does not indicates 3 to 5 1QD-001.

1-2. INSTALL

1.1PZ-001(Display)

- 2.1PZ-002(Main)
- 3.1QD-001(CJM-500_P)
- 4.1QD-001(CJM-500_D)
- 5.1QD-001(CJM-500_FPGA)
- 6.ALL(1-5)
- 7. Language data download

А

Menu	Contents
1.1PZ-001(Display)	It updates Display Firmware.
2.1PZ-002(Main)	It updates Main Firmware.
3.1QD-001(CJM-500_P)	It updates Validator firmware.
4.1QD-001(CJM-500_D)	It updates Currency Pattern.
5.1QD-001(CJM-500_FPGA)	It updates Validator FPGA.
6. ALL (1-5)	It update selected firmware in a lump.
7.LANGUAGE DATA DOWNLOAD	It download Language data.

FIRMWARE INSTALL

(1) Put CF Card to CF Card slot .

The Firmware file is saved in LAC folder in CF Card.

The CF Card slot is the left side of operation panel.

(2) Select type of firmware to be install and press START / STOP key.

1 to 5 for LAC-17ID 1 to 2 for LAC-17

(3) Select version of firmware and press START / STOP key.

Press C key to go back to previous screen.

1-2. INSTALL

1.1PZ-001(Display)

- 2.1PZ-002(Main)
- 3.10D-001(CJM-500_P)
- 4.10D-001(CJM-500_D)
- 5.1QD-001(CJM-500_FPGA)
- 6.ALL(1-5)
- 7. LANGUAGE DATA DOWNLOAD

Δ

1-2-1.1P2-001(DISPLAY) (1/4) Current version : LAC017LD01 LAC017LD02.frm LAC017LD03.frm LAC017LD04.frm LAC017LD05.frm LAC017LD05.frm LAC017LD06.frm

⁽¹⁾ Select INSTALL form SYSTEM and

(4) Press START / STOP key again to start installation.

Press C key to go back to previous screen.

1-2-1.1PZ-001(DISPLAY)

Current version : LAC017LD01 Install version : LAC017LD02

< LAC017LD02.frm >

[START/STOP] : Install [C] : Cancel

(5) During installation, the display indicates screen on the right.

1-2-1.1PZ-001(DISPLAY)

Writing program... Please wait...

65 %

Do not turn off power.

- (6)When updae conpletes normally, the display indicates "Install completed!".
- (7) Press START / STOP key or C key to go back to operation screen.

It automatically perform RESET. RESET screen does not indicates. 1-2-1.1PZ-001(DISPLAY) Current version : LAC017LD02 Install completed! [START/STOP] or [C] : Reset

In case right error message appears, set CF Card to the card slot.



List of Message for CF Card Access Error

Message	Contents
	No card
CF Card not found!	The card is removed.
	Status is chaged abnormally.
File not found!	There is not file which is able to install.
Too many files!	The files are too much.
Access error!	Other abnormality.

In case firmware update fails, the display indicates "Install failed!".

Press START / STOP key or C key to go back to operation screen.

1-2-1.1PZ-001(DISPLAY) **-**-**
Install version : LAC017LD02
🦺 Install failed!
Data Preparation Error
[START/STOP] or [C] : Reset

List of Message for Install Error

Massage	Contents
Data Preparation Error	While preparation of transmission
Data Transmission Error	While transmission
Writing Error	While writting
Unknown	Other than above

ALL (1-X)

- (1) Select INSTALL form SYSTEM menu and press START / STOP key.
- (2) Put CF Card to CF Card slotl

The Firmware file is saved in LAC folder in CF Card.

The CF Card slot is the left side of operation panel.

(3) Select ALL (1-5) from INSTAL menu and

Press C key to go back to INSTALL menu..

(4) Select firmware and press START /STOP

press Start /Stop key.

key.

firmware.

ALL (1-5) is for LAC-17ID. ALL (1-2) for LAC-17.

1-2, INSTALL

- 1.1PZ-001(Display)
- 2.1PZ-002(Main)
- 3.1QD-001(CJM-500_P)
- 4.1QD-001(CJM-500_D)
- 5.1QD-001(CJM-500_FPGA)

6.ALL(1-5)

7. LANGUAGE DATA DOWNLOAD

۸

1-2-*.ALL(1-*)

Data Loading...

۲

Please wait...

1-2-*.1PZ-001(DISPLAY) / ALL (1/5) Current version : LAC017LD01

✓ Skip > LAC017LD02.frm LAC017LD03.frm LAC017LD04.frm LAC017LD05.frm

(5) Select next firmware and press START / STOP key.

If <Skip> is selected, it does not update the

Select Display, Mechanism, CJM-500_P, CJM-500_D, CJM-500_FPGA firmwre in order.

(6) After setting all firmwares, press START /STOP key to install the firmwares.

Display	:	<	LA	C017LD01.frm >
Main	:	<	Sk	ip >
CJM-500_P	:	<	Sk	ip >
CJM-500_D	:	<	CJI	M5DEU01.BIN >
CJM-500_FPGA	:	<	No	File >
[STORT /	т	רסר		Install

[C] : Cancel

- (6) When firmwares are installed normally, the display indicates "Install completed!"
- (7) Press START / STOP key to go back to operation mode.

1-2-*.ALL(1-*)

Display Main cm—500 p	::	< LAC017LD01.frm > < Skip > < Skip >
CJM-500_D CJM-500_FPGA	:	< CJM5DEU01.BIN > < No File >
Install completed! [START/STOP] or [C] : Reset		

In case right error message appears, set CF Card to the card slot.



List of Message for CF Card Access Error

Message	Contents
	No card
CF Card not found!	The card is removed.
	Status is chaged abnormally.
File not found!	There is not file which is able to install.
Too many files!	The files are too much.
Access error!	Other abnormality.

In case update firmware fails, the display indicates "Install failed!".

Press START / STOP key or C key to go back to operation screen.



Language Data Download

(1) Select LANGUAGE DATA DOWNLOAD from INSTAL menu.

(2) Select LANGUAGE DATA file and press

Press C key to go back to previous

START / STOP key .

screen.

1-2. INSTALL

1.1PZ-001(Display) 2.1PZ-002(Main) 3.1QD-001(CJM-500_P) 4.1QD-001(CJM-500_D) 5.1QD-001(CJM-500_FPGA) 6.ALL(1-5) 7.LANGUAGE DATA DOWNLOAD 1-2-6.LANGUAGE DATA DOWNLOAD (1/4) L017XX0001.lns L017XX0002.lns L017XX0003.lns L017XX0004.lns

L017XX0005. Ins

▲

1-2-6. LANGUAGE DATA DOWNLOAD

- (3) Press START / STOP key to start install.
 - Press C key to go back to previous screen.

< L017XX0001.ing >

[START/STOP] : Install [C] : Cancel

(4) When update completes normally, the display indicates "Install completed!"

Press START / STOP key to go back opeartion mode.

It automatically perform RESET. RESET screen does not indicates. 1-2-7. LANGUAGE DATA DOWNLOAD

Install completed!

[START/STOP] or [C] : Exit

CF Card to the card slot.

previous Screen.

1-2-6. LANGUAGE DATA DOWNLOAD In case right error message appears, set Press START / STOP or C key to go back A CF Card not found! [START/STOP] or [C] : Exit

List of Message for CF Card Access Error

Message	Contents	
	No card	EVA_NOMEDIA
CF Card not found!	The card is removed.	EVA_CHGMEDIA
	Status is chaged abnormally.	EVA_STCHG
Too many files!	The files are too much.	E_ETYOVF
Access error!	Other abnormality.	Other than above

In case, update langage data failes, the display indicates "Install failed!".

Press START / STOP C key to go back to operation mode.

1-2-7. Language data download
A
Install failed!
Nata Preparation Error
[STORT/STOP] on [C] · Evit
(State:****)

List of Message for status

Massage	Contents
Data Preparation Error	While preparation of transmission
Data Transmission Error	While transmission
Writing Error	While writting
Writing Error	Other than above

3-1-13E

LAC-17 MAINTENANCE MODE

1-3. SERIAL NUMBER SETTING

- Select SERIAL MACHINE NUMBER from SYSTEM menu and press START / STOP key.
- (2) Select the number by F1 / F2 key or Jog Dial. Move the digit by F3 / F4 key. Set 6 digits of machine serial number.
- (3) After setting machine number, press START / STOP key to save the number.
- (4) Press C key to go back to SYSTEM Screen.



- (1) Select ADMINSTRATOR MODE PASSWORD from SYSTEM manu and press START / STOP key.
- (2) Select the number by F1 / F2 key or Jog Dial. Move the digit by F3 / F4 key. Set 4 digits of machine serial number.
- (3) After setting administrator mode password number, press START / STOP key to save the number.
- (4) Press C key to go back to SYSTEM Screen.





1-5. BACKUPDATA UPLOAD

BACKUPDATA UPLOARD makes clone of data. When Backup data download, completely restore all data.

When Display CPU PCB 1PZ-001 and/or Main PCB 1PZ-002 is replaced, save the setting data by BACKUPDATA UPLOARD in advance. Then after the boards replacement, the setting data will be back to the new boards by 1-6 BACKUPDATA DOWNLOAD. Contents of setting data is following.

- ·Memory SW Setting
- ·Logging Data
- ·Denomination Date
- ·Various internal setting (Contrast, Beep Sound etc.)
- ·Passwords Data
- ·External I/F Setting

N	o	te	÷
I N	U	ιC	

If install several units in one place, you can make clone which same setting of LAC-17 if download original data to other LAC-17. But, please set Serial Number again by "1-3-1. Serial Machine Number" due to serial number overwrithed.

- (1) Select BACKUPDATA UPLOAD from System Menu and press START / STOP.
- (2) Set CF Card to CF Card Slot.
- (3) Press START / STOP to save the backupdata to CF Card.

Backup data is saved the folder named LAC. File Size:8,192Byte

If there is no folder named LAC, it create the folder automatically.

Press C key to go back to System Menu.

(4) When backupdata completes, the display indicates "Backupdata saved.".

START / STOP key or C key to go back System Menu.

T-3. DIGKUPUNTI UPLUNU	
Saving data to the CF Card. Please wait	
25 %	

the 1-5.BACKUPDATA UPLOAD Backup data saved. [START/STOP] or [C] : Exit 01174533.bin

Composition of Backupdata file named :

L	AC017_00_4	00100 <u> </u> 13100	11/4533.bin	
Model	Specificatio	Serial umber	Date Y/M/D	Time H/M/S
Specificatio	n (00=Standard)			

1-5. BACKUPDATA UPLOAD

Please set the CF Card before saving.

[START/STOP] : Save [C] : Cancel



List of Message for CF Card Access Error.

Message	Contents	
	No card	
CF Card not found!	The card is removed.	
	Status is chaged abnormally.	
File exists!	Same file name is exist.	
CF Card full!	CF Card is full.	
	Insufficient memory.	
Access error!	Other abnormality.	

1-6. BACKUPDATA DOWNLOAD

Saved Backupdata by BACKUPDATA UPLOAD is downloaded to other machine.

	1-6, Backupdata Download
(1) Select BACKUPDATA DOWNLOAD from SYSTEM menu and press START / STOP key.	Data Loading
	۲
	Please wait
(2) Select a Backupdata and press START / STOP key.	1-6. BACKUPDATA DOWNLOAD (1/4)
	LAC017_00_789012_991231235959.BIN
Press C key to go back to System menu.	LAC017_00_400100_131001174533.BIN
Selected file is inverted.	LAC017_00_400100_131001151958.BIN
	LAC017_00_400100_131001151855.BIN
(3) Make sure the file name and press START	1-6. Backupdata Download
/ STOP key to start download.	
Press C key to go back to SYSTEM menu.	
	<lac017_00_123456_080101000000.bin></lac017_00_123456_080101000000.bin>
	[START/STOP] : Install
	1-6.BACKUPDATA DUWNLUAD
(4) When download completes normally, the	Download data from the CF Card.
display indicates "Install completed!.".	Please wait
Press START / STOP key or C key to an	
back to operation mode.	65 %
	Do not turn off power.

In case error, display indicates error message.	1-6. Backupdata Download
Press START / STOP key or C key to go back System Menu.	🔔 CF Card not found!
	[START/STOP] or [C] : Exit

List of Message for CF Card Access Error

Message	Contents
	No card
CF Card not found!	The card is removed.
	Status is chaged abnormally.
File not found!	There is not file which is able to install.
Too many files!	The files are too much.
Access error!	Other abnormality.

In case, the download fails, the display indicates "Install failled!".

Press START / STOP key or C key to go back to operation mode.

-6. Backupdata Download	
🦺 Install failed!	
Writing Error Data Error!	
[START/STOP] or [C] : Reset	

List of Message for status

Massage	Contents
Writing Error	While writting

List of Message for error

Massage	Contents
Data error!	Backupdata is abnormal.

1-7. DENOM.DATA UPLOAD

- (1) Select DENOM.DATA UPLOAD from SYSTEM menu and press START / STOP key.
- (2) Input Denomination Data file name 0 to 9, A to Z by pressing F1 /F2 key or Jog Dial and move the digit by F3 /F4 key.
- (3) Press START / STOP key after input file name.

Press C key to go back to SYSTEM memu.

(4) Set CF Card to Card Slot and press START / STOP key to start uploading DENOM. DATA file

Press C key to go back to SYSTEM menu.



1-7. Denom. Data Upload

Please set the CF Card before saving.

[START/STOP] : Save [C] : Cancel

1-7. Denom. Data upload	
Saving data to CF Card. Please wait	
25 %	

(4) When upload is completed, the display	1-7. Denom. Data upload
indicates "Data saved."	
Backup data is saved the folder named LAC.	Data saved.
If there is no folder named LAC, it create the folder automatically.	
	[START/STOP] or [C] : Exit
Press START / STOP key or C key to go back to SYSTEM menu.	
In case right error message appears, set CF	1-7. denom. data upload
Card to the card slot.	
Press START / STOP or C key to go back System Menu.	🦺 CF card not found!
	[SINKI/SIUP] OF [L] : EXIL

List of Message for CF Card Access Error.

Message	Contents
	No card
CF Card not found!	The card is removed.
	Status is chaged abnormally.
File exists!	Same file name is exist.
CF Card full!	CF Card is full.
	Insufficient memory.
Access error!	Other abnormality.

1-8. DENOM.DATA DOWNLOAD

Saved DENOM. DATA by DENOM. DATA UPLOAD is downloaded to other machine.

(1) Put CF Card to Card Slot.	1-8 DENOM DATA DOWNLOAD
(2) Select DENOM.DATA DOWNLOAD from System Menu and press START / STOP key.	Access the CF Card
(3) Select DENOM. DATA file and Press START / STOP key.	1-8. DENOM. DATA DOWNLOAD (1/4)
	L017XX0001.bin L017XX0002.bin L017XX0003.bin L017XX0004.bin
In case Local Teaching Mode (Option) is available, the display indicates as the right screen.	1-8. DENOM. DATA DOWNLOAD (1/4) Free : 48
Select USER DENOM. DATA and press F3 key.	L017XX0002.bin JPN u51¥1x 50 L017XX0003.bin JPN u52¥1x 50
You can select <all> or indivisually each USER DENOM. DATA.</all>	L017XX0004.bin USA u53 Nx 40 L017AALA39.bin JPN u54¥1x 50
After selecting USER DENOM. DATA and press START / STOP key.	▼ ▲ ✓ Select
Press C key to go back previous screen.	

3-1-21E

(4) Press START / STOP key to start download DENOM. DATA

Press C key to go back to previous screen.

1-8. DENOM. DATA DOWNLOAD

<L017XX0001.bin>

[START/STOP] : Install [C] : Cancel

1-8. Denom. Data Download

Download data from the CF Card. Please wait...

1 %

Do not turn off power.

(5) When download completes normally, the display indicates "Install completed".

(6) Press START / STOP key or C keyt.

1-8. Denom. Data Download

Install completed!

[START/STOP] or [C] : Reset

3-1-22E

If it fails CF Card access, the display indicates error message.

(7) Press START / STOP key or C key to go back to System Menu.



List of Message for CF Card Access Error.

Message	Contents
	No card
CF Card not found!	The card is removed.
	Status is chaged abnormally.
Too many files!	The files are too much.
Access error!	

	1-8. DENUM. DHIH DUWNLUHD **-**
In case, the download fails, the display indicates "Install failled!".	
	🦺 Install failed!
Press START / STOP key or C key.	Data Preparation Error
	[START/STOP] or [C] : Reset
	(Sr1:** Sr2:**)

List of Message for status

Massage	Contents
Data Preparation Error	While preparation of transmission
Data Transmission Error	While transmission
Writing Error	While writting
Unknown	Other than above

2. DATA SET

- (1) Select DATA SET from MAINTENANCE menu.
- (2) Select a item in DATA SET Menu by F1 / F2 key or Jog Dial.
- (3) Press START / STOP key to excecute.

Press C key to go back to previous screen.

LAN I/F does not indicates when memory switch 14 bit 0 is OFF.

2. DATA SET

1. OPTION

- 2. MEMORY SWITCH
- 3.LAN I/F
- 4. DENOMINATION DATA
- 5. DENOM. DATA INITIALIZATION
- 6. USER DENOM. DATA INITIALIZATION

Menu	Contents
1.OPTION	Option Setting
2.MEMORY SWITCH	Memory Switch Setting
3.LAN I/F	LAN I/F Setting
4.DENOMINATION DATA	DENOM. DATA Setting
	DENOM. DATA initialization accord
	Security Chip data.
	USER DENOM. DATA clear.
0.03ER DENOW. DATA INITIALIZATION	Only for Local Teaching Mode (Option)

2-1. OPTION

- (1) Select OPTION from DATA SET menu and press START /STOP key
- (2) Select a item by F1 / F2 or Jog Dial.
- (3) Set ON or OFF by F3 / F4 key.
- (4) Press START / STOP key to save the setting.

Press C key to go back to previous screen.



Menu	Contents
1) Simple I/F Option1	Setting to disable START / STOP key .
2) Simple I/F Option2	Setting to disable Roll Chute Gate open automatically.

(2/2)

LAC-17 MAINTENANCE MODE

2-2. MEMORY SWITCH

- (1) Select MEMORY SWITCH from DATA SET menu.
- (2) Select a SW.
- (3) Move the cursor by F3 / F4 key..
- (4) Set each bit by F1 / F2 key or Jog Dial.

2-2. MEMORY SWITCH							¢	1/3)
Bit	t 7	6	5	4	3	2	1	0
1)SW 1∶6FH	Ø	1	1	Ø	1	1	1	1
2) SW 2: 58H	Ø	1	Ø	1	1	۵	Ø	Ø
3) SW 3: 2FH	0	Ø	1	Ø	1	1	1	1
4) SW 4: 60H	0	1	1	Ø	Ø	Ø	Ø	0
5) SW 5: 50H	Ø	1	Ø	1	Ø	Ø	Ø	0
6) SW 6: 10H	Ø	Ø	Ø	1	Ø	Ø	Ø	Ø

-

Δ

2-2 MEMORY SUITCH

Move the Cursor to the left.
Then you can select next SW for setting.

	OWTION								<u></u>	51.03
		Bit	7	6	5	4	3	2	1	Ø
7) SW 7	60 H		Ø	1	1	۵	٥	۵	٥	0
8)SW 8:	: 11H		٥	۵	۵	1	۵	۵	۵	1
9) SW 9:	20 H		Ø	Ø	1	۵	۵	Ø	۵	Ø
10) SW10:	6D H		Ø	1	1	۵	1	1	۵	1
11) SW 11 :	6C H		Ø	1	1	۵	1	1	۵	0
12) SW12:	10H		Ø	Ø	Ø	1	۵	Ø	۵	0
		_								
•	A			<	1				Þ	•

2-2. MEMORY SWIT	ICH		(3/3)
<mark>13) SW13</mark> : 3F 14) SW14: 20 15) SW15: 7C 16) SW16: 3F	Bit 76 H 00 H 00 H 01 H 00	5432 1111 1000 1111 1111	10 11 00 10
			•

(6) Press START / STOP to save the setting.

Press C key to go back to previous scrreen.

3-1-25E

LAC-17 MAINTENANCE MODE

2-3. LAN I/F

- (1) Select 2-3. LAN I/F from DATA SET menu.
- (2) Select TCP/IPP or UOP by F3 / F4 key.
- (3) Change the value by F1/ F2 key or Jog Dial.
 - If UDP is selected, it is possible to set: 6) Remort IP
 - 7) Remort Port
 - 8) Device Ch.

2-3.LAN I/F				
1) Protoco	1 :	TCP	UDP	
2) IP	:	192 .	168 .	0. 1
3) Subnet	Mask :	255.	255.	255 . 🛛 Ø
4) Def. Ga	teway :	Ø.	Ø.	0.0
5) Port	:	10, 0	01	
6) Remote	IP :	192.	168.	0.254
7) Remote	Port :	10, 0	02	
8) Device	Ch. :	250		
	A		< _	

(4) Press START / STOP key to save the setting.

Press C key to go back to previous screen.

Menu	Content				
1) Protocol	•Setting Communication Protocol(TCP, UDP)				
,	·Default: I CP				
2) IP	 Setting exclusive n 	umber in the network.			
2) "	·Default:192.168.0.1				
3) Subpot Mask	 Mask setting for ho 	st about IP Address			
	·Defaut:255.255.255	5.0			
	·Setting IP address	of the router for outside LAN network.			
1) Dof Cotowov	(Setting IP address	of the router for LAN side.)			
4) Del.Galeway	·When the operation	ו is only in LAN side, set "0, 0, 0, 0"			
	·Default:0.0.0.0				
	·When MSW 12 bit 4 is OFF, 10.001 fixed.				
	When MSW12 bit 4 is ON, the setting is valid.				
	XIt is prohibited to assign following port number.				
	<prohibited number="" port=""></prohibited>				
5)POΠ Note) The setting is valid	Port Number	Contents			
when Memory Switch 12 hit	1 – 1023	Reserved(well known ports)			
4 is set ON	9999	Reserved(Unpublished)			
	14000 - 14009	Reserved for Redirector			
	30704	Reserved(77F0h)			
	30718	Reserved(77FEh)			
	 Acceptable range:0 	0,000~65,535			
	·Default:10,001(10,001-10,002 are recommended.)				
	Setting Remote IP Address for UDP.				
6) Remote IP ·Default:192.168.0.255					
	·Setting Remote Port number for UDP.				
7) Remote Port	·Default:10,002				
8) Device Ch	·Setting exclusive D	evice Ch for UDP.			
	·Default:0 (Acceptable range: 0 -255.)				

2-4. DENOMINATION DATA (Option: Local Teaching Function)

(1) Select DENOMINATION DATA from DATA SET menu.

Total 64 denomination can be added to the denomination data. The added denomination indicats <USER> in the menu. When the existed denomination data is customized, the denomination indicates <*> in the menu.

(2) Select Denomination which you want customize the data by F1 / F2 key or Jog Dial.

When you create new denomination, select <New Data> .

(3) Press START / STOP key.

Press C key to go back previous screen.

- (4) Select a item which you want to change in the menu.
- (5) Change the value by F3 / F4 key.
- (6) Press START / STOP key to save the data.

Press C key to go back to previous screen.

If the value is not acceptable, it indicates red color and it does not save the data.

For the setting of 1) Currency and 2) Name, the character changes as following order;

2-4. Denom	INATION DAT	A	(1/8)
< New Da	ta >		
1. EUR	0.01× 50		
2. EUR	0.02× 50		
3. EUR	0.05× 50		
4. EUR	0.1× 40	<*>	
5. EUR	0.2× 40		
6. EUR	0.5× 40		
7. abc	ABC00x 35	<user></user>	
_			

2-4. DENOMINATION DA	ITA
No. **	
1)Currency	: ***
2)Name	: ****
3)Diameter	:38.00mm
4)Thickness	: 3.50mm
5)Wrap pcs	: 50 pcs
6)Paper Width	: 150mm
7)Coin Shape	: FFH
8)Code	: 0000AB0A

*+,-./0123456789:<=>?ABCDEFGHIJKLMNOPQRSTUVW XYZ[¥]^_`abcdefghijklmnopqrstuvwxyz{|}~s!"#\$%&'()

	Item	Description	Acceptable Value
1.	Currency	Currency Name	Input Currency (Ex. EUR, USD)
2.	Name:	Denomination Name	Input denomination name
3.	Diameter	Coin diameter	
4.	Thickness	Coin thickness	1.00 to 3.50mm
5.	Wrap pcs	Number of coins per roll	1 to 50 pcs. Input data 1 roll of height + 23mm
6.	Paper Width	Roll Paper Width	0 to 150mm
7.	Coin Shape	Coin Shape Type	No need set data
8.	Code	Internal code for LAC-17ID	Normally no need set data
9.	Wrapping Method		
10.	Paper Feed Tim		

(7) When new denomination is created by LAC17ID, perform Sampling Adjustment for new denomination. Refer to ID Sensor Adjustment in online manual. Without this adjustment, LAC-17ID rejects all new denomination.

2-5. DENOM. DATA INITALIZATION	2-5. DENOM. DATA INITIALIZATION
(1) Select DENOM. DATA INITIALIZATION form DATA SET menu.	
	Are you sure to initialize the data?
(2) Press START / STOP key.	[START/STOP] : Clear [C] : Cancel
Press C key to go back to previous screen.	2-5. DENOM. DATA INITIALIZATION
(3) Press START / STOP key to clear the DENOM. DATA.	START/STOP Press the key
2-6. USER DENOM. DATA INITALIZATION	2-6. USER DENOM. DATA INITIALIZATION
(1) Select USER DENOM. DATA INITIALIZATION form DATA SET menu.	Are you sure to initialize the data?
(2) Press START / STOP key.	[START/STOP] : Clear [C] : Cancel
Press C key to go back to previous screen.	
(3) Press START / STOP key to clear the USER DENOM. DATA INITALIZATION.	2-6.USER DENOM. DATA INITIALIZATION START/STOP Press the key

3. LOGGING

- (1) Select LOGGING from MAINTENANCE menu by F1 / F2 key or Jog Dial.
- (2) Select a item in LOGGING menu by F1 / F2 key or Jog Dial.
- (3) Press START / STOP key to excecute the item.

Press C key to go back to MAINTENANCE Screen.

3.LOGGING			(1/2)
1. TOTAL	OPERATION	Hours	
2.TOTAL	WRAPP ING	ROLLS	
3. TOTAL	COUNT COI	NS	
4 . Total	REJECT CO	IN COUNT	
5. TOTAL	ROLL HEIG	HT REJECT	
6. Alarm	FREQUENCY	,	
7. Alarm			
8. MATER	IAL REJECT		
-		_	
	<u> </u>		

3.LOGGING	(2/2)
9.LIFE COUNTER 10.Log data save 11.Sensor log data	SAVE

Menu	Description
1. TOTAL OPERATION HOURS	Total operation hours
2. TOTAL WRAPPING ROLLS	Total Wrapping Roll for each denomination.
3. TOTAL COUNT COINS	Total Count for each denomination.
4. TOTAL REJECT COIN COUNT	Total material detection reject for each denomination
5. TOTAL ROLL HEIGHT REJECT	Total coin roll height reject for each denomination
6. ALARM FREQUENCY	Number of error occurrences for each alarm code.
7. ALARM	The latest 100 alarm code
8. MATERIAL REJECT	Cause of Material Detection Reject
9. LIFE COUNTER	Life counter Log
10.LOG DATA SAVE	Uploading Log Data to CF Card
11.SENSOR LOG DATA SAVE	Uploading Sensor Log to CF Card

Note) Date Format (MM/DD/YYYY) for each item is correspond to date format setting.

3-1. TOTAL OPERATION HOURS

- (1) Select TOTAL OPERATION HOURS from LOGGING menu.
- (2) Press START / STOP key to indicate the operation hours
- (3) Press C key to go back to previous screen.

3-1. TOTAL OPERATION HOURS

(Clear	:	12/31/2099)
Operation	:	999,999 H 59 min
Wrapping	:	999.999 H 59 min
Counting	:	999.999 H 59 min
Total Wrap	:	4, 294, 967, 295 rolls
Total Count	:	4, 294, 967, 295 pcs

Menu	Contents
Operation	Total power on hours
Wrapping	Toal wrapping operation hours
Counting	Total counting operation hours
Total Wrap	Total coin roll
Total Count	Total coin count

3-2. TOTAL WRAPPING ROLLS

- (1) Select TOTAL WRAPPING ROLLS from LOGGING menu.
- (2) Press START / STOP key.

It indicates total of wrapping roll for each denomination.

(3) Press C key to go back to previous screen.

3-3. TOTAL COUNT COINS

- (1) Select TOTAL COUNT COINS from LOGGING menu.
- (2) Press START / STOP key.

It indicates total count for each denomination.

(3) Press C key to go back to previous screen.

3-2.1	iotal WR	IAPP I	INC	ROLLS	(1/**)
	(01	ear	:	12/31/2099)	
[Tot	al]		:	4, 294, 967, 295	i rolls
JPN	o¥500x	50	:	4, 294, 967, 295	i rolls
JPN	o¥500×	20	:	4, 294, 967, 295	i rolls
JPN	n¥500x	50	:	4, 294, 967, 295	i rolls
JPN	n¥500x	20	:	4, 294, 967, 295	i rolls
JPN	¥100×	50	:	4, 294, 967, 295	i rolls
_					

3-3. TOTAL COUNT COINS

	(C1	ear	:	1	2/31	/2099))		
[Tot	al]			:	4	, 294	, 967 ,	295	PCS	
JPN	o¥500	Jx	50	:	4	, 294	, 967 ,	295	PCS	
JPN	o¥500	Зx	20	:	4	, 294	, 967 ,	295	PCS	
JPN	n¥500	Jx	50	:	4	, 294	, 967 ,	295	PCS	
JPN	n¥500	Зx	20	:	4	, 294	, 967 ,	295	PCS	
JPN	¥100	Jx	50	:	4	. 294	. 967.	295	PCS	
_										

(1/**)

3-1-30E

 $f \left(\frac{1}{2} \right)$

LAC-17 MAINTENANCE MODE

3-4. TOTAL REJECT COIN COUNT

- (1) Select TOTAL REJECT COIN COUNT from LOGGING menu.
- (2) Press START / STOP key.

It indicates number of rejected coin by material detection for each denomination.

(3) Press C key to go back to previous screen.

<u>u</u>				
	(01	ear	:	12/31/2099)
[Tot	al]		:	4, 294, 967, 295 times
JPN	o¥500x	50	:	4, 294, 967, 295 times
JPN	o¥500×	20	:	4, 294, 967, 295 times
JPN	n¥500x	50	:	4, 294, 967, 295 times
JPN	n¥500x	20	:	4, 294, 967, 295 times
JPN	¥100x	50	:	4.294.967.295 times

3-4 TOTAL REJECT COIN COUNT

3-5. TOTAL ROLL HEIGHT REJECT

- (1) Select TOTAL ROLL HEIGHT REJECT from LOGGING menu.
- (2) Press START / STOP key.

It indicates number of roll height reject for each denomination.

(3) Press C key to go back to previous screen.

3-5. TO	ital ro	LL HE	IGHT REJECT	(1/**)
	(01	ear :	12/31/2099)	
[Tota	11	:	4, 294, 967, 29	5 times
JPN c)¥500x	50 :	4, 294, 967, 29	5 times
JPN c)¥500x	20 :	4, 294, 967, 29	5 times
JPN r	1¥500x	50 :	4, 294, 967, 29	5 times
JPN r	1¥500x	20 :	4, 294, 967, 29	5 times
JPN	¥100×	50 :	4, 294, 967, 29	5 times
•		۸.		_

3-6. ALARM FREQUENCY

- (1) Select ALARM FREQUENCY from LOGGING menu.
- (2) Press START / STOP key.

It indicates number of error occurrences for each alarm code.

(3) Press C key to go back to previous screen.

3-6. ALA	arm frequent	CY	(1/**)
	(Clear :	12/31/2099)
1)	01-00-00	65, 535	times
2)	02-00-00	65, 535	times
3)	06-00-00	65, 535	times
4)	07-00-00	65, 535	times
5)	10-30-11	65, 535	times
6)	11-30-21	65, 535	times
•			

3-7. ALARM

- (1) Select ALARM from LOGGING menu.
- (2) Press START / STOP key.

It indicates the latest 100 alarm code.

(3) Press C key to go back to previous screen.

3-7. ALARI	1			(1/	жж)
	(Clear :	12/31/	2099)		
1) 01	-00-00 /	Count /	EUR	0.02x	50
2) 02	-00-00 /	Wrap /	EUR	0.02x	50
3) 06	-00-00 /	Count /	EUR	0.02x	50
4) 07	-00-00 /	Wrap /	EUR	0.02x	50
5) 10	-30-11 /	Wrap /	EUR	0.02x	50
6) 11	-30-21 /	Wrap /	EUR	0.02x	50
•					

3-8. MATERIALREJECT

- (1) Select MATERIAL REJECT from LOGGING menu.
- (2) Press START / STOP key.

It indicates the cause of Material Detection Reject.

(3) Press C key to go back to previous screen.

3-8. MATER	IAL REJECT		(1/50)
1) 12/ Coun Over 2) 12/ Wrap Over	(Clear : 1 /31/2099 t/JPN o¥ /D /31/2099 /JPN o¥ /P	12/31/2099) 23:59 500x 50 23:59 500x 50	
•	A		

	-
Error Code	Contents
OVER	Overrun
M	Matching Error
D	Distance Error
Р	Position Error
l1	Inner 1 Error
12	Inner 2 Error
R	Ring Error
C	Core Error
В	Blank Error

3-9. LIFE COUNTER

- (1) Select LIFE COUNTER from LOGGING menu.
- (2) Press START / STOP key.

It indicates number of action, time for each actuator.

- (3) Select a actuator by F1 / F2 or Jog Dial.
- (4) Press C key to go back to previous screen.

The Symbol of actuator is indicates such as M1, M2.... Number or time of operation indicats below.

3-9.LIFE COUNTER (1/24)
(Clear : 12/31/2099)
M1) Set Date [12/31/2099]
Norma1 : 4, 294, 967, 295 sec Reverse : 4, 294, 967, 295 sec
3-9.LIFE COUNTER (2/24)
(Clear : 12/31/2099)
M2) Set Date [12/31/2099]
M2) Set Date [12/31/2099] Norma1 :4, 294, 967, 295 sec Reverse :4, 294, 967, 295 sec

 \wedge

Symbol	Description	Symbol	Description
M1	Aux Coin Table Motor	M14	Cartridge Motor
M2	Coin Table Motor	SOL1	Count Stop Solenoid
M3	Coin Feed Motor	SOL2	Reject Stop Solenoid
M4	Track Width Motor	SOL3	Shutter Solenoid
M5	Stack Width Motor	SOL4	Arm Stop Solenoid
M6	Thickness Block Motor	SOL5	Clear Gate Solenoid
M7	Stack Dram Motor	CLB1	Track Width Brake
M8	Mode Change Motor	CLB2	Stack Width Brake
M9	Main Cam Motor	RC1	Roll Counter
M10	Paper Feed Motor	FAN1	Upper Fan Motor
M11	Wrap Motor	FAN2	Bottom Fan Motor
M12	Roller Opening Motor		
M13	Roll Gate Motor		

3-10. LOG DATA SAVE

(1) Select LOG DATA SAVE from LOGGING menu and press START / STOP key.

The display indicates the illustration on the right.

- (2) Put CF Card to the Card Slot of Display Board.
- (3) Press START / STOP key to save the Log Data.

Press C key to go back to previous screen.

(4) The display indicates the illustration on the right during the saving.

LOG DATA file is saved the folder named LAC. File Size: 1,269,504 Bytes.

ne	Please set the CF card before saving.
рġ	[START/STOP] : Save [C] : Cancel
	3-10.log data save
d	Saving data to CF Card. Please wait
-	25 %

3-10.LOG DATA SAVE

Composition of LOG DATA file is :	A	ddress	
LAC017_00_400100_13100	003a0000	.log	
Model Specification Serial number	Date Y/M/D	Time H/M/S	Log Location

Specification (00=Standard)

Log Location (D=Display Board, S=Mechanism Board, J= Validator Board) Address (Start address for the log data)

(5) When data saving is completed normally, the display indicates "Log data saved."

Press START / STOP key or C key to go back LOGGING menu.

3-10.log data save	
Log data saved.	
[START/STOP] or [C] : Exit	

 3-10.LOG DATA SAVE

 3-10.LOG DATA SAVE

 3-10.LOG DATA SAVE

 Press START / STOP key or C key to go back LOGGING menu.

 CF Card not found!

 [START/STOP] or [C] : Exit

List of Message for CF Card Access Error.

Message	Contents
	No card
CF Card not found!	The card is removed.
	Status is chaged abnormally.
File exists! Same file name is exist.	
	CF Card is full.
	Insufficient memory.
Access error!	Other abnormality.

3-1-35E

LAC-17 MAINTENANCE MODE

3-11. SENSOR LOG DATA SAVE

(1) Select SENSOR LOG DATA SAVE from LOGGING menu.

Note) When SENSOR LOG is saved during error condition, do not clear the error before saving the data.

(2) Press START / STOP key.

The display indictes as illustration on the right.

- (3) Put CF Card to the card slot of Display Board.
- (4) Press START / STOP key to save the data.

Press C key to go back to LOGGING menu.

3-11. SENSOR LOG DATA SAVE
Please set the CF card
before saving.
•
[START/STOP] : Save
[C] : Cancel

(5) The display indicates the illustratio on the right during the saving.

LOG DATA file is saved the folder named LAC. File Size: 1,091,328 Bytes.

3-11. Sensor log data save
Saving data to CF Card. Please wait
25 %

Composition of SENSOR LOG DATA file is :			/	Address
LAC017_00_400100_131001174533_D_00300000.mem			.mem	
Model Specification	Serial number	Date Y/M/D	Time H/M/S	Log Location

Specification (00=Standard)

Log Location (D=Display Board, S=Mechanism Board, J= Validator Board) Address (Start address for the log data)

(6) When data saving is completed normally, the display indicates "Sensor Log data saved.".

Press START / STOP key or C key to go back LOGGING menu.

3-11. SENSOR LOG DATA SAVE

Sensor Log data saved.

(File Date :12/31/2099 23:59:59)

[START/STOP] or [C] : Exit

If the data saving is failed, the display indicates error message.

Press START / STOP key or C key to go back LOGGING menu.



List of Message for CF Card Access Error.

Message	Contents
	No card
CF Card not found!	The card is removed.
	Status is chaged abnormally.
File exists!	Same file name is exist.
CF Card is full.	CF Card is full. Insufficient memory.
Access error!	Other abnormality.

4. DATA CLER

- (1) Select DATA CLEAR from MAINTENANCE menu.
- (2) Select a item from DATA CLEAR menu by pressing F1 / F2 key or Jog Dial.

Press C key to go back to previous screen.

4. Data clear	(1/2)
1. TOTAL OPERATION HO	JURS LOG
2. TOTAL WRAPPING ROL	LS LOG
3. TOTAL COUNT COINS	LOG
4. TOTAL REJECT COIN	Count log
5. TOTAL ROLL HEIGHT	REJECT LOG
6. Alarm Frequency Lo)G
7.Alarm log	
8. MATERIAL REJECT LO)G

4. DATA CL	ear		(2/2)
9. DENOM 10. OPERA 11. LIFE 12. Memor 13. Contr 14. All B 15. Langu	INATION I TING LOG COUNTER SE Y SWITCH I OL DATA ACK UP DAT AGE DATA	log et Initializati Ia	(ON
V	A		

Menu	Description
1. TOTAL OPERATION HOURS LOG	Total operation hours log clear
2. TOTAL WRAPPING ROLLS LOG	Total wrapping rolls each demon. log clear
3. TOTAL COUNT COINS LOG	Total count for each denom. log clear
4. TOTAL REJECT COIN COUNT LOG	Total material detection reject for each denom. log clear
5. TOTAL ROLL HEIGHT REJECT LOG	Total coin roll height reject for each denom. log clear
6. ALARM FREQUENCY LOG	Number of error occurrences for each alarm log clear
7. ALARM LOG	The latest 100 alarm code log clear
8. MATERIAL REJECT LOG	Cause of Material Detection Reject log clear
9. DENOMINATION LOG	Denomination log clear
10.0PERATION LOG	Operation log clear
11.LIFE COUNTER SET	Life counter log setting
12.MEMORY SWITCH INITIALIZATION	Memory switch default setting
13.CONTROL DATA	Control Data clear
14.ALL BACK UP DATA	All back up data clear
15.LANGUAGE DATA	Language data clear

3-1-38E

LAC-17 MAINTENANCE MODE

4-1. TOTAL OPERATION HOURS LOG

- (1) Select TOTAL OPERATION HOURS LOG from DATA CLEAR menu.
- (2) Press START / STOP key.

The display indicates the illustration on the right.

(3) Press START / STOP key

Press C key to go back previous screen.

4-1.TOTAL OPERATION HOURS LOG
Do you yout to clean the date?
Do you want to clear the bata?
[START/STOP] : Clear
[C] : Cancel
4-1. Total operation hours log

(4) Press START / STOP key again to clear the selected data.

Press C key to cancel and go back to DATA CLEAR menu.

Press the key

Start/Stop

Clear the data in same mannner for following items.

Menu
1. TOTAL OPERATION HOURS LOG
2. TOTAL WRAPPING ROLLS LOG
3. TOTAL COUNT COINS LOG
4. TOTAL REJECT COIN COUNT LOG
5. TOTAL ROLL HEIGHT REJECT LOG
6. ALARM FREQUENCY LOG
7. ALARM LOG
8. MATERIAL REJECT LOG
10.0PERATION LOG

4-11. LIFE COUNTER SET

When a part are replace to second hand part for repair, the operation times or opration hours for the second hand part can be set to LIFE COUNTER.

- (1) Select LIFE COUNTER SET form DATA CLEAR menu.
- (2) Select the actuator by F1 / F2 or Jog Dial and press START / STOP key.

Press C key to go back to previous screen.

4-11.LIFE COUNTER SET (1/4)

- 1.M1(AUX COIN TABLE MOTOR)
- 2.M2(COIN TABLE MOTOR)
- 3.M3(COIN FEED MOTOR)
- 4.M4(COURSE OPEN AND CLOSE MOTOR)
- 5.M5(STACK OPEN AND CLOSE MOTOR)
- 6.M6(THICK. BLOCK UP AND DN. MOTOR)
- 7.M7(STACK DRUM MOTOR)
- 8.M8(MODE CHANGE MOTOR)

- (3) Move the cursor by F3 / F4 key.
- (4) Change the setting by F1 / F2 key or Jog Dial.
- (5) Press START / STOP key save the setting.

Press C key to go back to previous screen.

If CLR is setected, the data will be set default.

The range of setting operation time is 0 to 4,294,967,295 sec. In case exceeded data is set, it will turn to red and it won't go for next step.

4-11-1.11

1.M1(Al	IX COIN TA	ible motor)	l		
Set cla 12 / 3	Set clear data (mm/dd/yyyy) 12 / 31 / 2099 CLR				
Set uni (0 - 4, <u>4, 294</u>	t drive i 294, 967, 2 , 967, 295	nformation 195) sec CLR	I		
V	A		•		
4-11-1.H1					
1.M1(AU	X COIN TA	BLE MOTOR)			

Set clear data (mm/dd/yyyy)

Set unit drive information

CLR

12 / 31 / 2099

(0 - 4, 294, 967, 295) **999, 999, 999** sec CLR

۵

(6) Press START / STOP key to save the data.

Press C key to go back previous screen.

4-11-1.M1

Set clear data (mm/dd/yyyy) 12/31/2099 Set unit drive information 4,294,967,295 sec

Do you want to save?

[START/STOP] : Save [C] : Cancel

4-11-25. ALL ACTUATORS

(1) Select ALL ACTUATORS from DATA CLEAR menu.

4-11-25. ALL ACTUATORS

Are you sure to clear the data?

[START/STOP] : Clear [C] : Cancel

(2) Press START / STOP key.

4-11-25. ALL ACTUATORS

(3) Press START / STOP key again to clear the data.

Press C key to go back to previous screen.

Start/Stop

4-12. MEMORY SWITCH INITIARIZATION

- It clears mamory switch setting which manually made.
- (1) Select MEMORY SWITCH INITIALZATION form DATA CLEAR menu and press START / STOP key.
- (2) Press START / STOP key.

Press C key to go back previous screen.

(3) Press START / STOP key to set all default.

Press C key to go back previous screen.

4-12. MEMORY SWITCH INITIALIZATION

Are you sure you want to initialize all data?

> [START/STOP] : Initialize [C] : Cancel

4-12. MEMORY SWITCH INITIALIZATION

Start/Stop

Press the key

4-13. CONTROL DATA

It clears Control Memory. Do not perform without instruction form LAUREL.

- (1) Select CONTROL DATA form DATA CLEAR menu.
- (2) Press START / CLEAR key.
- (3) Press START / CLEAR key form the screen on the right.

Press C key to go back previous screen.

- (4) Press START / CLEAR key to clear the data.
- (5) Press C key to go back to DATA CLEAR menu.

4-13. CONTROL DATA

Are you sure to clear the data?

[Start/Stop] : Clear [C] : Cancel

4-13. CONTROL DATA

Start/Stop

4-14. ALL BACK UP DATA

ALL BACKUP DATA are cleared befor shipment of a machine. Do not perform without instruction form LAUREL.

- (1) Select ALL BACK UP DATA form DATA CLEAR and press START / STOP key.
- (3) Press START / STOP key again.

4-14. ALL BACK UP DATA

Are you sure you want to initialize all data?

> [START/STOP] : Clear [C] : Cancel

4-14. ALL BACK UP DATA

(4) Press START / STOP key to clear all backup data except Denomination Data.

Press C key to go back previous scren.

Start/Stop

ALL BACK UP DATA Clear makes following setting to default.

Itom	Default Setting
Drichtness	
Brightness	5
Contrust	4
Power Save Setting	1 min.
Buzzer Volum	1
Jog Dial Beep	ON
Alarm Beep	ON
Repeat Alarm Beep	ON
Date Format	MM/DD/YYYY
Time indication at title screen	ON
Languate	English
Jog Dial Sensitivity	2
Jog Dial thresh hold	120
Administrator Password	0000
Password for Roll Printer Information Setting	ON
Password for Validator Level Setting	ON
Password for Coin Roll Height Detection Setting	ON
Passwrd for Denom. Data Download	ON
Operator Number Setting after power on.	ON
LAN Protocol	TCP
LAN IP Address	192.168.0.1
LAN–Subnet mask	255.255.255.0
LAN –Default Gate Way	0.0.0.0
LAN–Port	10,001
LAN-Remote IP	10.002
LAN-Remote Port	192,168,0,254
LAN-Device Ch.	0

In addition, following dat a are cleard.

Item
TOTAL OPERATION HOURS LOG
TOTAL WRAPPING ROLLS LOG
TOTAL COUNT COINS LOG
TOTAL REJECT COIN COUNT LOG
TOTAL ROLL HEIGHT REJECT LOG
ALARM FREQUENCY LOG
ALARM LOG
OPERATION LOG
LIFE COUNTER SET
CONTROL DATA
CoinRoll Height Data
Full data
Near Full data
Near End data

4-15. LANGAGE DATA

LANGAGE DATA clears langage setting to default (English).

(1) Select LANGUAGE DATA from DATA CLEAR menu and press START / STOP key.

The display indicates the illustration on theright.

(2) Press START / STOP key.

Press C key to go back to previous screen.

4-15.LANGUAGE DATA Are you sure to clear the data? [START/STOP] : Clear [C] : Cancel

(3) Press START / STOP key to clear the language data.

Press C key to go back previous screen.

4-15. Language Data

START/STOP

3-1-45E

LAC-17 MAINTENANCE MODE

5. TEST

- (1) Select TEST form MAINTENANCE menu and Press START / STOP key.
- (2) Select a item by F1 / F2 or Jog Dial.
- (3) Press START / STOP key to excecute the item.

Press C key to go back to previous screen.

5. TEST		
1.SENSOR 2.DRIVE 3.DISPLAY 4.MACHINE	Mode	

Menu	Description
1.SENSOR	Sensor Test and information
2.DRIVE	Drive Test
3.DISPLAY	Display Test
4.MACHINE MODE	Operation Test such as stacking, wrapping.

5-1. SENSOR

(1) Select SENSOR form TEST menu and press START / STOP key.

The display indicates each sansor status.

(2) Select the sensor .

(3) Press F3 key to change emitter out put for following sensors.

5-1. SENSOR			(1/9)
1. PH1	:Light	00 H	Full
2 . PH3	:Light	08 H	
3. PH4	:Light	08 H	
4 . PH5	:Light	08 H	
5. PH6	:Light	00 H	Full
6 . PH7	:Light	00 H	Full
7 . PH8	:Dark	FFH	
8 . PH9	:Light	07H	
		Full	¶ Off

PH1: Aux Coin Table Control Sensor PH6: Reject Box Full Sensor PH7: Count Chute Full Sensor PH13: Paper Home Position PH14: Paper Home Position PH15: Clear Box Full Sensor PH16: Roll Chute Jam Sensor PH17: Printer Paper End Sensor

5-1.SENSO	R		(2/9)
9. PH10 10. PH11 11. PH13 12. PH14 13. PH15 14. PH16 15. PH17	:Lis :Lis :Dar :Dar :Lis :Lis :Lis :Dar	ht 06H ht 06H k 00H k 00H ht 00H ht 00H	Full Full Full Full Full
16 . PH18	:Lis	ht	
•	A	🕨 Full	∮ Off

(4) Press F4 key to generates beep sound for selected sensor depending on the status.

No.	Symbol	Description
1	PH1	Aux Coin Table Control Sensor
2	PH3	Count Sensor 1
3	PH4	Count Sensor 2
4	PH5	Stack Timing Sensor
5	PH6	Reject Box Full Sensor
6	PH7	Count Chute Full Sensor
7	PH8	Roller Opening Position 1
8	PH9	Roller Opening Position 2
9	PH10	Roller Opening Position 3
10	PH11	Roller Opening Position 4
11	PH13	Paper Home Position
12	PH14	Paper Home Position
13	PH15	Clear Box Full Sensor
14	PH16	Roll Chute Jam Sensor
15	PH17	Printer Paper End Sensor
16	PH18	Automatic Wrap Sensor
17	PI2	Reject Stop Position
18	PI3	Track Width Home Position
19	PI4	Stack Width Home Position
20	PI5	Thickness Block High Position
21	PI6	Thickness Block Low Position
22	PI7	Shutter Solenoid Home Position
23	PI8	Stack Dram Home Position
24	PI9	Reject Box Set

Press C key to go back to previous screen.

25	PI11	Count Mode Position
26	PI12	Wrap Mode Position
27	PI13	Main Cam Home Position
28	PI14	Arm Stop Solenoid Position
29	PI15	Paper Roll Set Position
30	PI17	Clear Gate Position
31	PI18	Clear Box Set
32	PI19	Roll Gate Position
33	PI20	Cartridge Motor Roller Position
34	PI21	Cartridge Set
35	CM1	Electric Condenser Microphone
36	CS1	Stack Jam Sensor
37	CS2	Loose Coin Sensor
38	CD1	Hopper Supply Sensor
39	SW1	Upper Door Switch
40	SW2	Front Door Switch 1
41	SW3	Front Door Switch 2
42	SW4	Printer Cover Switch
43	M1ALM	Aux. Coin Table Alarm
44	M2ALM	Coin Table Alarm
45	M3ALM	Coin Feed Motor Alarm
46	M4ALM	Sorting Track Open Motor Alarm
47	M5ALM	Stack Width Open Motor Alarm
48	M6ALM	Thickness Block Motor Alarm
49	M7ALM	Stack Drum Motor Alarm
50	M9ALM	Cam Motor Alarm
51	M10ALM	Wrapping Motor Alarm
52	M11ALM	Paper Feed Motor Alarm
53	24V1DWN	24V 1 Power Down
54	24V2DWN	24V2 Power Down
55	SENSOR1	Validator Timing Sensor 1
56	SENSOR2	Validator Timing Sensor 2
57	SENSOR3	Validator Timing Sensor 3
58	SENSOR4	Validator Timing Sensor 4
59	FAN1	Fan 1 Motor Alarm
60	FAN2	Fan 2 Motor Alarm
60	IN1	Simple I/F input 1
61	IN2	Simple I/F input 2
62	IN3	Simple I/F input 3
64	IN4	Simple I/F input 4
65	5V/AD	5V Power
66	1PZ-001	Display Board Battery Voltage
67	1PZ-002	Mechanism Board Battery Voltage

5-2. DRIVE

- (1) Select DRIVE from MAINTENANCE menu and press START / STOP key.
- (2) Select a actuator and press START / STOP key.
- (3) Select the action.

CW: Clockwise CW HIGH: Clockwise high speed CW LOW: Clockwise low speed CCW: Counter Clockwise BRAKE: Brake ON: Start HOME: Home position WRAP: Wrap Mode Pistion COUNT: Count Mode Pisition

5-2.DRIVE			(1/4)
1.M1		Mode CW	
2.M2		CCW	
3.M3			
4.M4			
5.M5			
6.M6			
7.M7			
8.M8			
	A		

(4) Press START / STOP key to start action. Press START / STOP key again to stop the action.

No.	Symbol	Description		
1	M1	Aux Coin Table Motor		
2	M2	Coin Table Motor		
3	M3	Coin Feed Motor		
4	M4	Track Width Motor		
5	M5	Stack Width Motor		
6	M6	Thickness Block Motor		
7	M7	Stack Dram Motor		
8	M8	Mode Change Motor		
9	M9	Main Cam Motor		
10	M10	Paper Feed Motor		
11	M11	Wrap Motor		
12	M12	Roller Opening Motor		
13	M13	Roll Gate Motor		
14	M14	Cartridge Motor		
15	SOL1	Count Stop Solenoid		
16	SOL2	Reject Stop Solenoid		
17	SOL3	Shutter Solenoid		
18	SOL4	Arm Stop Solenoid		
19	SOL5	Clear Gate Solenoid		
20	CLB1	Track Width Brake		
21	CLB2	Stack Width Brake		
22	RC1	Roll Counter		
23	FAN1	Upper Fan Motor		
24	FAN2	Bottom Fan Motor		
25	PRINT	Print Head		
26	PATLITE	PATELITE light LED		
27	START LED	Start LED		
28	CLEAR LED	Clear LED		
29	OUT1	Simple I/F output1		
30	OUT2	Simple I/F output2		
31	OUT3	Simple I/F output3		
32	OUT4	Simple I/F output4		

5-3. DISPLAY

- (1) Select DISPLAY form TEST menu and press START / STOP key.
- (2) Select item and press START / STOP key.

Press C key to go back to previous screen.

5-3.DISPLAY	
1.DISPLAY 2.BACK LIGHT 3.BUZZER 4.SWITCH	

Menu	Description
1.DISPLAY	Color of the display screen changes red, green, blue, white and black by pressning START / STOP key. Press C key to stop the function.
2.BACK LIGHT	Back Light turns ON or OFF by pressing F3 / F4 key. Press C key to stop the function.
3.BUZZER	Buzzer sounds ON or OFF by pressing F3 / F4 key. Press C key to stop the function.
4.SWITCH	The display indicates key illustration. The key on the display inverted by pressing actual operation key. Press C key for 3 seconds to stop the function.

5-3-4. SWITCH
<u>[F1] [F2] [F3] [F4]</u>

I

LAC-17 MAINTENANCE MODE

5-4. MACHINE MODE

- (1) Select MACHINE MODE from TEST menu and press START / STOP key.
- (2) Select test operation in the menu and press START / STOP key.
- (3) Press START / STOP key to start selected operation.

The menu of Machine Mode describes below table.

Press C key to go back to previous screen.

5-4. MACHINE MODE
1.CA (STACK) 2.C3 (WRAP) 3.E0 (WRAP-NO PAPER)
5-4-1.ca (Stack)
CA (STACK)
[START/STOP] : Start [C] : Cancel

Menu	Funtion
1.CA (STACK)	Purpose: For checking the condition of the coin stacking.Function: After stacking the coins at Stack Drums, the coins are rejected to the Clear box.
2.C3 (WRAP)	Purpose: For checking the wrapping movement without using the coins. Function: Count on the display screen increases automatically without coins, And the machine starts the wrapping movement. When Coin Roll Height detection is ON, it performs reject action once in each 5 wrapping movement. Caution: Must not load the coins in this mode. In order to prevent the damage of wrapping roller, the Crimp Hooks doesn't go into the roller case.
3.E0 (WRAP-NO PAPER)	 Purpose: For checking the wrapping movement without using the roll paper. Function: The machine activates normal wrapping movement but the paper feed motor and wrapping motor does not rotate. All the coins are rejected into clear Box. Caution: In order to prevent the damage of wrapping roller, the Crimp Hook do not go into the roller case.

L

3-1-51E

(1/2)

LAC-17 MAINTENANCE MODE

6. ADJUSTMENT

- (1) Select ADJUSTMENT from MAINTENANCE menu and press START / STOP key.
- (2) Select item in ADJUTMENT by F1 / F2 key or Jog Dial.
- (3) Press START / STOP key.

Press C key to go back to previous screen.

12. JUDGEMENT does not indicates when MSW2 bit 5 is OFF.



1. THICKNESS BLOCK HEIGHT

- 2. Sorting track width
- 3. STACK DRUM HOME POSITION
- 4.STACK WIDTH
- 5. SUPPLEMENT THICKNESS BLOCK
- 6.MIN SET
- 7.WRAPPING UNIT SENSOR
- 8. WRAPPING ROLLER POSITION



Menu	Description
1. THICKNESS BLOCK HEIGHT	Thickness Block height adjustment
2. SORTING TRACK WIDTH	Sorting Track width adjustment
3. STACK DRUM HOME POSITION	Stack Home Position setting
4. STACK WIDTH	Stack Width Adjustment
5. SUPPLEMENT THICKNESS BLOCK	
Supplement of thicness blok height	
6. MIN SET	Minmum position setting
6. MIN SET 7. WRAPPING UNIT SENSOR	Minmum position setting Wrapping Unit sensor detection.
6. MIN SET 7. WRAPPING UNIT SENSOR 8. WRAPPING ROLLER POSITION	Minmum position setting Wrapping Unit sensor detection. Wrapping Roller open position check
6. MIN SET 7. WRAPPING UNIT SENSOR 8. WRAPPING ROLLER POSITION 9. COIN TABLE REMAIN	Minmum position setting Wrapping Unit sensor detection. Wrapping Roller open position check Coin Table Remain Sensor Adjustment
6. MIN SET 7. WRAPPING UNIT SENSOR 8. WRAPPING ROLLER POSITION 9. COIN TABLE REMAIN 10.CHANGE DENOM. INFO.	Minmum position settingWrapping Unit sensor detection.Wrapping Roller open position checkCoin Table Remain Sensor AdjustmentSetting for each denomination
6. MIN SET 7. WRAPPING UNIT SENSOR 8. WRAPPING ROLLER POSITION 9. COIN TABLE REMAIN 10.CHANGE DENOM. INFO. 11.WHEEL PAD SENSITIVITY	Minmum position setting Wrapping Unit sensor detection. Wrapping Roller open position check Coin Table Remain Sensor Adjustment Setting for each denomination Jog Dial Adjustment

NO DENOM. DATA

In case the display indicates "Denomination data is empty. DENOM. DATA and Security Chip type does not match.

Please contact LAUREL about appropriate DENOM. DATA and Security Chip version.

Press START / STOP key to go back ADJUSTMENT menu.

Denomination data is empty. Please download.

[START/STOP] or [C] : Exit

6-1. THICKNESS BLOCK HEIGHT

- (1) Select THICKNESS BLOCK HEIGHT from ADJUSTMENT menu.
- (2) Press START / STOP key.

The display indicates denomination menu.

(3) Select Denomin and press START / STOP key.

Press C key to go back to previous screen.

(4) Set adjustment value by F1 / F2 or Jog Dial.

One step changs 0.0075mm/D.

message.

value.

The display indicates ?? when incorrect value is input.

6-1. THICKNESS BLOCK HEIGHT (1/**)1. GUAGE9 2.JPN o¥500 3.JPN n¥500 4.JPN ¥100 5.JPN ¥50 ¥10 6.JPN 7.JPN ¥5 ¥1 8.JPN



6-2. SORTING TRACK WIDTH

- (1) Select SORTING TRACK WIDTH from ADJUSTMENT menu.
- (2) Press START / STOP key.

The display indicates denomination menu.

(3) Select denomination and press START / STOP key.

Press C key to go back to previous screen.

(4) Set adjustment value by F1 / F2 key or Jog Dial.

One step change 0.1mm.

The display indicates ?? when incorrect value is input.

(5) Press START / STOP key.

The display indicates" Adjustment: OK", when the adjustment is completed normally.

6-2. SORT	ing track	WIDTH		(1/**)
1. GUAG	GE9				
2.JPN	o¥500				
3.JPN	n¥500				
4.JPN	¥100				
5.JPN	¥50				
6.JPN	¥10				
7.JPN	¥5				
8.JPN	¥1				
			_		
<u> </u>					

6-2. Sorting track width					
Denom : [GUAGE9]					
Adjustment Value Setting : + 0					
(-30 - +30)					
6-2. Sorting track width					
Adjustment : OK					
Adjusted Value : (+ 0)					
[SIHKI/SIUP] : Keadjustment [C] : End					
R Save					
ALARM					
30-**-**					

In case of error, the display indicates error message.

Press C key to go back to previous screen.

(6) Press F3 key to save the adjustment value.

Press C key to go back to previous screen without saving.



6-3. STACK DRUM HOME POSITION

- (1) Select STACK DRUM HOME POSITION from ADJUSTMENT menu.
- (2) Press START / STOP key.

The display indicates the illustration on the right.

(3) Press START / STOP key.

Stack Drum rotates one turn and stop at Stack Drum Home Position.

The display indicates" Adjustment: OK", when the function completed normally.

Press C key to go back to previous screen.

6-3. STACK DRUM HOME POSITION
Fixed position
[START/STOP] : Start [C] : Cancel
6-3. STACK DRUM HOME POSITION

Adjustment :	OK					
[C] : End						

6-4. STACK WIDTH

(1) Select STACK WIDTH from ADJUSTMENT menu and press START / STOP key.

The display indicates denomination menu.

(2) Select a denomination and press START / STOP key.

Press C key to go back to previous screen.

(3) Set adjustment value by F1 / F2 key or Jog Dial.

One step changes 0.06mm.

The display indicates ?? when incorrect value is input.

6-4. STACK	(WIDTH		(1/**)
1. GUAG	E8			
2.JPN	o¥500			
3.JPN	n¥500			
4.JPN	¥100			
5.JPN	¥50			
6.JPN	¥10			
7.JPN	¥5			
8.JPN	¥1			
-				_
No.				

6-4. Stack Wid	ITH
Denom :	[guage8]
Adjustment	.Value Setting : +14
	(-50 - +50)
-	

(4) Press START / STOP key.

The display indicates" Adjustment: OK", when the adjustment is completed normally.



In case of error, the display indicates error message

Press C key to go back to previous screen.

(5) Press F3 key to save the adjustment value.

Press C key to go back to previous screen without saving.



6-5. Supplement of THICKNESS BLOCK

- (1) Select SUPPLEMENT THICKNESS BLOCK from ADJUSTMENT menu.
- (2) Press START / STOP key.
- (3) Select UP or DOWN for Thickness Block by F1 / F2 or Jog Dial.
- (4) Press START / STOP key to set Thickness Block as following.

UP: Gauge 9+0.2mm DOWN: Gauge 9 UP DOWN [START/STOP] : Adjustment [C] : End

6-5. SUPPLEMENT THICKNESS BLOCK

In case of error, the display indicates error message.

Press C key to go back to previous screen.

(5) Put Gauge 9 to Sorting Track and close Feed Unit. Check the Thickness Block height by Gauge 9.

UP: Be sure Gauge 9 moves DOWN: Gauge 9 contact with Coin Guard.



6-6. MIN SET

(1) Select MIN SET from ADJUSTMENT menu and press START / STOP key.

6-6.MIN SET	
Thickness Block 1	mm
Sorting Track 15	mm
Stack Width 15	mm
[START/STOP] : Star [C] : Canc	t el

6-7. WRAPPIN UNIT SENSOR

Refer page Adjustment 4-6-3 for more deteil.

6-7. WRAPPING UNIT SENSOR

Remove the wrapping paper.

[START/STOP] : Start [C] : Cancel



1.07h: φ15.0-17.2 8.06h: φ28.9-31.8 2.08h: φ17.3-19.0 9.0Ah: φ31.9-33.0 3.0Dh: φ13.1-20.8 10.01h: φ33.1-38.0

7.09h: \$\phi 26.5-28.8

0000 NE h

6-8. WRAPPING ROLLER POSITION

[Home Position]

4.0Eh: φ20.9-22.8 5.03h: φ22.9-24.2

6.05h: \$\phi24.3-26.4

Δ

6-8. WRAPPIN ROLLER POSITION

- (1) Select WRAPPIING ROLLER POSITION form ADJUSTMENT menu and press START / STOP key.
- (2) Select position and press START / STOP key.

Wrapping Roller stops selected position.



When the wrapping roller setting completes normally, the display indicates OK. In case it is failed to set, the display indicates NG.

Press C key to go back to previous screen.

3-1-59E

LAC-17 MAINTENANCE MODE

6-9. COIN TABLE REMAIN

Refer page Adjustment 4-6-1 for more deteil.



6-10. CHANGE DENOM. INFO

- Select CHANGE DENOM. INFO from ADJUSTMENT menu and press START / STOP key.
- (2) Select Denomination by F1 / F2 or Jog Dial and press START / STOP key.

Press C key to go back to previous screen.

- (3) Select item by F1 / F2 key and press START / STOP key.
- (4) Setting changes by F1 / F2 or Jog Dial.

In case, setting is not acceptable it indicates ???.

(5) Press F4 key to indicate test wrap screen.

Press START/ STOP key to start wrap mode. Press START / STOP key again to stop wrapping.

(6) Press C key to go back to Denomination Setting Screen and press START / STOP key.

Meaning of Denom. SW: Refer to Electrical Adjustment 4-6-2 for more detail.

This setting are able to reduce stacking Jam.

6-10. Chan	ge denom. Info.	(1/**)
1. JPN	o¥500× 50	
2. JPN	n¥500× 50	
3. JPN	n¥500x 20	
4. JPN	¥100× 50	
5. JPN	¥50× 50	
6. JPN	¥10× 50	
7. JPN	¥5× 50	
8. JPN	¥1× 50	
•		

6-10. Change Denom. Info.			(1/2)
Denom : JPN [o¥500x !	50]	
Denom.SW : FFH 11	1	11	111
1)Stack Supplement	:		±999
2)Paper Length	:		±999
3)Aux Coin Table Speed	:		±999
4)Feed Speed	:	999	±999
5)Coin Table Speed	:	999	±999
6)Drum Rotation Speed	:	999	±999

🔣 Save 💷 Wrap

6-10. CHAN	ge denom.	INFO.	(2/2)
Denom : 7)Drum 8)Shutt 9)Wrap 10)Paper	JPN [o <u>Speed Cont</u> er Open Ti Method Feed Tim.	¥500x 50] .rol : 9 mins : 9 : :	99 ±999 99 ±999 5 ±200
•	A	🗷 Save	💷 Wrap

Δ

6-11. WHEEL PAD SENSITVITY

(1) Select WHEEL PAD SESITIVITY from ADJUSTMENT menu and press START / STOP key.

Press C key to go back to previous screen.

- (2) Select the menu by F1 / F2 or Jog Dial and press START / STOP key.
- (3) Chenge the value by F1 / F2 key or Jog Dial and press START / STOP key.



- (4) The display indicates how Jog Dial is manipulated. Make sure the result of adjustment by manipulating Jog Dial.
 - (5) Press F3 key to save the adjustment value.

Menu	Description
Wheel Sensitivity	Sensitivity of Jog Dial can be adjusted 1 to 7. 7 is the most dull. 1 is the most sensitive. Default is 2.
Wheel Threshold	Threshold of Jog Dial can be adjusted 0 to 127. Jog Dial is manipulated when the contact value is exceeded threshold. Default is 120.

6-12. JUDGEMENT (Validator Adjustment)

This function is only valid when MSW2 bit 5 is ON.

- (1) Select JUDGEMENT from ADJUSTMENT menu and press START / STOP key.
- (2) Select the item and press START / STOP key..

Press C key to go back to previous screen.

(3) Set the machine to the specified denomination for the adjustment.

EURO=50 Cents Yuan=1 Yuan

6-12-1. GAIN

(1) Select GAIN menu and press START / STOP key to start adjustment.

If ALL is selected, it performs all sensor adjustment in the manu except Brank.

Press C key to go back to previous screen.

6-12. JUDGE	MENT		
1.GAIN 2.FINE 3.FINE 4.SAMPL	TUN ING1 Tun Ing2 Ing		
▼ 6-12-1.GA	A IN		(1/2)
1.ALL 2.T 3.C 4.I1 5.I2 6.R1 7.R2 8.P			
	A	_	_

6-12-1.GA	IN	(2/2)
9.D		
10.B		
•	A	

Menu		Discription	
1.ALL		All sensor adjustment	
1. T	TIMING	Timing Sensor Adjustment	
2. C	CORE	Core Sensor Adjustment %Not availablefor China Spec.	
3. I1	INNER1	Inner 1 Sensor Adjustment %Not availablefor China Spec.	
4. 12	INNER2	Inner 2 Sensor Adjustment %Not availablefor China Spec.	
5. R1	RING1	Ring 1 Sensor Adjustment	
6. R2	RING2	Ring 2 Sensor Adjustment	
7. P	POSITION	Position Sensor Adjustment	
8. D	DISTANCE	Distance Adjustment XNot availablefor China Spec.	
9. B	BRANK	Brank Sensor Adjustment ※ Only for China Spec.	

(1) Press START / STOP key to start adjustment.

When ALL adjustment is performed, it adjust all sensor adjustment in the menu automatically except Brank Adjustment.

Brank Adjustment should be performed individually.

- (6) When the adjustment completes normally, the display indicates"Adjustment : OK".
- (7) Press F3 key to save the adjustment data.
- (8) When adjustment completes normally, the display indicates "Save : OK" and adjustment value for each sensors are indicates.



When the adjustment did not complete normally, the display indicates "Adjustment: NG."

6-12-1-1.ALL		
Adjustment	:	NG



OK

6-12-1-1.ALL

Adjustment :

B (Brank) (Blank Detection Only)

- (1) Select B (Brank) from GAIN menu and press START / STOP key.
- (2) Place the chart at validator as illustration on the screen.
- (3) Press START / STOP key to adjust.
- (4) When the adjustment completes normally, the display indicates"Adjustment : OK".

If the adjustment fails, the display indicates NG.



6-12-1-10.B					
Adjustment	:	OK			
			5	Save	
6-12-1-10.B					
Adjustment	:	OK			
Adjustment Save	:	OK OK			
Adjustment Save B1	:	ok ok FFFF	H		
Adjustment Save B1 B2	:	OK OK FFFF FFFF	H H		
Adjustment <u>Save</u> B1 B2 B3	:	OK OK FFFF FFFF FFFF	H H H		
Adjustment Save B1 B2 B3 B4	:	OK FFFF FFFF FFFF FFFF	H H H		
Adjustment Save B1 B2 B3 B4 B5		OK FFFF FFFF FFFF FFFF FFFF	H H H H		
Adjustment Save B1 B2 B3 B4 B5 B6		OK FFFF FFFF FFFF FFFF FFFF	H		

(5) Press F3 to save the adjustment data.

The display indicates "Save : OK" and Adjustment values for each Brank detection.

Press C key to go back to GAIN menu.

6-12-2. FINE TUNING1	6-12-2.FINE TUNING1
(1) Select FINE TUNING1 from JUDGEMENT menu and press START / STOP key.	Count 4, 294, 967, 295 pcs
(2) Count more than 40 pcs of target coin.While counting, the stacked coins are rejected to clear box.When the display indicates OK, it is possible to start adjustment.	[START/STOP] : Start/Stop 6-12-2.FINE TUNING1 Count 4, 294, 967, 295 pcs
(3) Press START / STOP key to adjust.	OX Press [START/STOP] key.
When the adjustment completes normally, the display indicates"Adjustment : OK".	6-12-2.FINE TUNING1 Adjustment : OK
(4) Press F3 key to save the adjustment data.	Save
The display indicates ".Save : OK" and the adjustment value for Inner 1, Inner 2, Distance. In case the adjustment fails, display indicates NG. Press C key to go back to JUDGEMENT menu.	6-12-2.FINE TUNING1 Adjustment : OK Save : OK I1 : FFH FFH FFH FFFH I2 : FFH FFH FFH FFH FFFFH D : FFH FFH FFH FFH FFFFH

3-1-65E

LAC-17 MAINTENANCE MODE

6-12-3. FINE TUNING2

- (1) Select FINE TUNING2 form JUDGEMENT menu and press START / STOP key.
- (2) Place the target coin at Sorting Track as illustruation on the right.

6-12-1.FINE TUNING2



(3) Move the coin forward and backward along with L and R side of Sorting Track accord to the indication of red bar.

Continue above action untill showing OK.

6-12-1.FINE TUNING2 1. Set the Target coin on the Sorting Track. 2. Move the coin along both L and R side of Track continuously until show "OK". Press [START/STOP] key. Adjusting...

(4) Remove the coin and Press START / STOP key to adjust.

When the adjustment completes normally, the display indicates"Adjustment : OK".

If the adjustment fails, the display indicates NG.

(5) Press F3 key to save the adjustment data.

The display indicates "Save : OK" and the adjustment value for L and R position.

If the adjustment does not complete, the display indicates NG.

Press C key to go back to JADGEMENT menu.

6-12-3.FINE	TUN	ING2			
Adjustment	:	OK			
_		-	Save	_	_

6-12-3.FINE	TUN	IING2				
Adjustment	:	OK				
Save	:	OK				
PL	:	FFH	FFH	FFH	FFFFH	
PR	:	FFH	FFH	FFH	FFFFH	
		_			_	
		_				

6-12-4. SAMPLING

- (1) Select SAMPLING for JUDGEMENT menu and press START / STOP key.
- (2) Select denomination to be adjusted and press START / STOP key.

When the CJM sensor module is replaced, adjust sampling for all denomination.

6-12-4.S	AMPLING	
1.EUR	0.01	
2.EUR	0.02	
3.EUR	0.05	
4.EUR	0.1	
5.EUR	0.2	
6.EUR	0.5	
7.EUR	1	
8.EUR	2	
	_	

4, 294, 967, 295 pcs

6-12-4. SAMPLING

Count

(3) Count more than 40 pcs of target coin.

Count in right illsutration is maximum number.

When the display indicates OK, it is possible to start adjustment.

(4) Press START / STOP key.

When the adjustment completes normally, the display indicates"Adjustment : OK".

If the adjustment fails, the display indicates NG.

(5) Press F3 key to save the adjustment data.

The display indicates " Save : OK".

(6) Press C key key to previous screen.

6-12-4. SAMPLING	
Adjustment :	ОК
	Save

OK

Press [START/STOP] key.

3-1-67E

LAC-17 MAINTENANCE MODE

7. MEMORY

- (1) Select MEMORY from MAINTENANCE menu and press START / STOP.
- (2) Select memory location and press START / STOP key.

The display indicates memory.

When MSW2-bit 5 is OFF, item 3 does not indicate.

7. MEMORY

1.1PZ-001(DISPLAY)



Memory Location	Contents
1.1PZ-001 (Display Unit)	It indicates memory in Display Control CPU Board.
2.1PZ-002 (Main Unit)	It indicates memory in Mechanism Control Board.
3.1QD-001(CJM-500)	It indicates memory in CJM500 CPU Board.

7-1. Memory Dump

Display Momory indicates as illustration on the right.

- (1) Scroll the memory data by F1 / F2 key or Jog Dial.
- (2) Press F3 key to indicate Memory Jump screen.
- (3) Press F4 key to indicates CF upload screen.

Data indicated gray font is not possible to change. Data indicated black font is possible to

change.

Press C key to go back MEMORY menu.

7-2. Memory Write

Do not perform this function without permission of LAUREL.

7	7-1.1PZ-001(DISPLAY)							
	0000000	<u>00</u> 02	BF C4 50	00 10	00			
	0C000008	00 02	BF C4 50	00 10	00			
	0C000010	00 02	BF C4 50	00 10	00			
	0000018	00 02	BF C4 50	00 10	00			
	0C000020	00 02	BF C4 50	00 10	00			
	0C000028	00 02	BF C4 50	00 10	00			
	0C000030	00 02	BF C4 50	00 10	00			
	0C000038	00 02	BF C4 50	00 10	00			
		- A						

7-1.1P2-001	UISPLH	N)			
0000000	DØ 18	40 1E	90 29	C1	10
0000008	90 28	C1 00	90 27	C1	01
00000010	90 26	C1 02	90 25	C1	03
00000018	90 24	C1 04	90 23	C1	06
00000020	90 22	C1 Ø8	90 21	C1	09
00000028	90 20	C1 07	90 1F	C1	ØA
00000030	DØ 10	70 FF	88 00	8B	FC
00000038	DØ ØF	D2 10	02 14	92	ØD
L					
V	A	000 FFF	Jump	0	CF

7-3. Memory Jump

(1) While indicating Memory Dump, press F3 key.

7-1.1P2-001(DISPLAY)						
000000000 D0 1B 40 1E 90 29 C1 10 000000008 90 28 C1 00 90 27 C1 01 000000010 90 26 C1 02 90 25 C1 03 000000018 90 24 C1 04 90 23 C1 06 000000020 90 22 C1 08 90 21 C1 09 000000028 90 20 C1 07 90 1F C1 0A 000000028 90 20 C1 07 90 1F C1 0A 000000028 90 20 C1 07 90 1F C1 0A 000000030 D0 10 70 FF 88 00 8B FC 000000038 D0 0F D2 10 02 14 92 0D						
🔻 🔺 瞛 Jump 🖉 CF						
7-1, 1P2-001(DISPLAY)						
1 Places onton the oddress						
I.Flease enter the adoress.						
EFFFFFOH						
2.Press [STAKT/STUP] key.						
7-1.1PZ-001(DISPLAY)						
Please set the CF Card						
before saving.						
[START/STOP] : Save						
[C] : Cancel						

7-1.1PZ-001(DISPLAY)

Memory data saved.

[START/STOP] or [C] : Exit

The display indicates Memory Jump Screen.

Range of Address is 0000000*h – FFFFFF*h.

- (2) Move the cursor by F3 / F4 key.
- (3) Change the value by F1 / F2 or Jog Dial.

Repeat (2) and (3) to change the address.

(4) Press START / STOP key.

The display indicates Memory Dump screen for desired address.

Press C key to go back to Memory menu.

(5) Put CF Card to card slot of display board and press START / STOP key.

When the upload completes, the display indicates "Memory data saved".

Press C key to go back MEMORY menu.

Saved Memory data file is named : Model + Specification + "_" machine number +"-"+ yymmdd+"-"+Location+"-"+Address.mem.

Specification (00=Standard) Location (D=Display, S=Mechanism, J=Validator) File Size: 237,568Byte

8. DENOM. DATA UPDATE PROCEDUR

When DENOM. DATA is downloaded or DENOM DATA is changed or added, take following procedure.

In case without respect to following procedure, the log data may not dindicate the result correctly..



9. BOARD REPLACEMENT PROCEDURE

When Display Control CPU Board or Mechanism Control Board is replaced, take the procedure in order to transfer the settings form old board to new board as well as Log Data. In case the old board is damaged, it may not upload BACKUP DATA.



10. DENOM. DATA SPECIFICATION

Sample of Denom. Data Specification



Code	Contents						
Model Code	Fixed to A for LAC17.						
Country Code	Country Code (ISO42	Country Code (ISO4217)					
Version	A to Z						
	Max denom.	Security Chip	Local Teaching Function	Currency Pattern			
Detailed Specification	00: 16 denom. Others: 64 denom.	00: No chip 1X: Available 3X: Available 00: No function 1X: No function 3X: Availalbe	00: 1 X0: 1 X1: 2 X2: 2 X3: 3 X4: 4 X9: more than 4				