



Issue: 06/2008 4045-SME-000E

JAPAN CASHMACHINE CO., LTD.

Preface

Thank you for purchasing JCM's TAIKO Bill Acceptor. Please be sure to read the following and any related documents thoroughly to understand the correct operation and features of this unit.

Note

- 1. It is forbidden to copy the contents of this manual, in whole or in part, except for the user's personal use, without the express permission of Japan Cash Machine Co., Ltd.
- 2. The information provided in this manual is subject to change without notice.
- 3. This manual has been written with care and attention to detail; however, should you find any errors or omissions, please contact Japan Cash machine Co., Ltd. and inform them of you findings.
- 4. Please be aware that Japan Cash Machine shall not be held liable by the user for any damages, losses or third party claims arising from any uses of this product.
- 5. All Company/Manufacturer names used in this manual are the registered trademarks of those companies.

Precautions

■ Machine Design

- We take all possible measures to ensure the quality of this unit. However, performance degradation or possible short or open circuit faults could occur at the end of a product's life. Please ensure safety by sufficiently implementing a fail-safe design.
- Allow sufficient space around the unit to facilitate the collection of banknotes and cleaning of jams.

■ Installation

- Do not use the acceptor outside of the operation temperature and humidity ranges specified in this guide.
- Do not use the acceptor in locations that will obstruct the acceptor's air holes and cause the unit to become hot.
- Do not use the acceptor in locations with extreme temperature fluctuations.
- Do not use the acceptor in direct sunlight or incandescent lighting (3000 Lx or greater at a 15 degrees angle or less).
- Do not use or store the acceptor in locations with high levels of dust.
- The acceptor is for indoor use only; do not use it outside.
- Do not use the acceptor in locations where chemical vapor is present.

- When using the acceptor in a location where the air is subject to the car exhaust emissions or cigarette smoke, be sure to clean and maintain the unit at regular intervals.

■ Wiring

- When installing the TAIKO unit or connecting the wiring harness, make sure that the power harness from the power terminal.
- When connecting the wiring harness to the TAIKO unit, be sure to confirm the rated voltage and pin assignments. Failure to do so may result in damage to the unit.
- Be sure to connect the power harness properly. Failure to do so may result in incorrect input/output due to contact failure.
- Do not pull on the power harness with undue force, as that may cause the harness to break.

■ Operation

- Be sure to turn off the power to the TAIKO unit when opening the upper and lower covers. Failure to do so may result in your fingers becoming caught in the moving roller.
- Be careful not to get your finger caught when closing the upper cover.
- Do not modify the TAIKO unit. Doing so may damage the unit.
- Do not expose the TAIKO unit to strong impacts or drop the unit as doing so may damage the unit.
- Do not wipe the TAIKO unit, either outside or inside, with thinner or organic solvent.
- Do not allow moisture or liquid to enter the TAIKO unit.
- Do not store the acceptor outside of the specified storage temperature and humidity ranges.
- The following banknotes might be not accepted properly by the TAIKO unit or may cause a jam or damage to the unit.
 - a. Banknotes with stain, wear, tears or excessive wrinkles, or that are wet or damp.
 - b. Dog-eared or creased banknotes
 - c. Banknotes with incorrect cut dimensions or printing displacement
 - d. Banknotes with oil smear of oil or foreign objects

Disposal

- Disposal of this unit should be accomplished in accordance with your country's regulations for similar types of industrial waste.

Product Configurations

TAIKO unit's are configured as follows.

[Model] PUB-* [Type] *** - * * * * - **

A B C D E F G

A. Validation Method 7: Optical/Transparency/Reflection

11: Optical/Transparency/Reflection/MAG

B. Country Code ISO based 3-digit codes

C. Faceplate Type 0: Withdout faceplate

1: Acceptable Bill Width Max. 82mm/ Min. 67mm

2: Acceptable Bill Width Max.82mm/ Min. 75mm

3: Acceptable Bill Width Max.82mm/ Min. 70mm

5: Acceptable Bill Width 66mm

D. Optional Unit 0: Without optional unit

1: With interface pin assignment conversion harness

(ccTalk-compatible)

2: ID-001 Interface Type (Upper tray for 16PIN connector)

3: Individual

E. Board Type 1: Standard

2: Interface pin assignment (ccTalk-compatible)

3: Parallel Interface type

F. Operation Code 0: Standard

G. Interface X4: SERIAL(ID-003)/MDB/PULSE/ccTalk

01 : ID-001 (parallel)

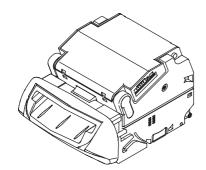
Example: PUB-7 EUR-1020-X4

Indicates the TAIKO model Bill Acceptor with Optical/Transparency Reflection Type, Type 1 faceplate, Euro software, no optional unit, interface pin assignment (ccTalk-compatible) type board, standard operation code, and an Serial(ID-003)/MDB/Pulse/ccTalk interface.

Package Contents

The following items are contained within the TAIKO Package.

■TAIKO unit



■Installation Guide

TAIKO Integration Guide

- ■ID-001 I/F Harness (3280-05-100)
 - * Bandled Item for Parallel Interface Specification





This unit has been carefully packed, with special attention taken in regard to quality. However if you happen to find anything damaged of missing, please contact your local distributor immediately.

CE Marking Note

DECLARATION OF CONFORMITY

MANUFACTURER

Name : JAPAN CASH MACHINE CO., LTD.

Address: 3-15, 2-chome, Nishiwaki, Hirano-ku, Osaka, 547-0035 Japan

Phone : +81-6-6703-8405 **Fax** : +81-6-6704-7843

DETAILS OF PRODUCT: BILL ACCEPTOR **MODEL TYPES**: PUB-7, PUB-11

THIS PRODUCT CONFORMS TO THE ESSENTIAL REQURIEMENTS OF

Electromagnetic Compatibility Directive 89/336/EEC

Amended by 92/31/EEC, 93/68/EEC

Low Voltage Directive 73/23/EEC

Amended by 93/68/EEC

and is supported by the following applicable standards

EN61000-6-1: 2001

EN61000-4-2:1995+A1:1998+A2:2001

EN61000-4-3: 2002+A1: 2002 EN61000-4-8: 1993+A1: 2001

EN61000-6-3: 2001

EN55022 : 1994+A1 : 1995+A2 : 1997(ClassB) EN60950-1 : 2001+A11 : 2004 First Edition

Authorized signatory on behalf of the responsible person

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RoHS Compliance

The TAIKO (PUB-7/PUB-11) is a RoHS Compliant products. The following six kind of hazardous substances restricted by RoHS are NOT contained in the TAIKO unit.

nRestricted Hazardous Substances

- Plumbum
- Mercury
- Cadmium
- Chromium Hexavalent
- PBB
- PBDE

Documentation Conventions

The list below describes the documentation convertions used in this manual.

Icon/Mark	Descriptions
	This icon indicates important information or procedures that must be followed for correct and risk-free unit operation.
Note	This icon indicates useful or recommended supplemental information.
1. 2	This indicates steps in a procedure. Be sure to perform these steps in the order given.
See=>	This indicates related information to refer.
*	This indicates useful or important supplemental inforamation



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Table of Contents

Preface

Note
Precautions
Product Configurations4
Package Contents5
CE Marking Note
RoHS Compliance 6
Documentation Conventions
Chapter 1 Introduction
1-1. Main Features1-2
1-2. Prior to Use1-3
1-3.Component Names
1-4. System Configuration1-5
1-5. Operation Flowchart1-6
Chapter 2 Specifications
2-1. Specifications2-2
2-1-1. Basic Technical Specifications
2-1-2. Electrical Specifications
2-1-3. Environmental Specifications
2-1-4. Structural Specifications
2-2. Connector
2-2-1. Interface Connector
X4: ID-003 (serial)/ MDB/ Pulse/ ccTalk specification
2-2-1-1. Interface Connector Pin Assignments
X4: ID-003 (serial)/ MDB/ Pulse/ ccTalk specification
2-2-2. Interface Connector
01: ID-001 (parallel) specification
2-2-2-1. Interface Connector Pin Assignments
01: ID-001 (parallel) specification
2-3. Interface Circuit
2-3-1. ccTalk Interface Circuit
2-3-2. ID-003 (serial)/ MDB Interface4 Circuit
2-3-3. Pulse Interface Circuit
2-3-4, ID-001 (parallel) Interface4 Circuit

2-4. External Dimensions	2-11
2-4-1. When installing the Type 1/ Type 2/ Type 3 faceplate with TAIKO unit	2-11
2-4-2. When installing the Type 5 faceplate with TAIKO unit	2-12
2-5. DIP Switch Setting	2-13
2-5-1. Basic Settings	
X4: ID-003 (serial)/ MDB/ Pulse/ ccTalk specification	2-14
2-5-2. Basic Settings	
01 : ID-001 (parallel) specification	
2-6-3. Special Settings	2-14
Chapter 3 Installation / Operation	
3-1. Installation/Removal	3-2
3-2. Wiring	3-5
3-2-1. Recommended Parts	
3-2-1-1. Reccomended Parts	
X4: ID-003 (serial)/ MDB/ Pulse/ ccTalk specification	3-5
3-2-1-2. Reccomended Parts	
01 : ID-001 (parallel) specification	3-5
3-2-2. Wiring Procedure	3-6
3-3. Clearing Bill JAM	3-7
Chapter 4 Download / Adjustment	4.2
4-1. Download	
4 1 1 Doggiyomonta	
4-1-1. Requirements	
4-1-2. Connecting Procecedure	4-3
4-1-2. Connecting Proceedure	4-3
4-1-2. Connecting Procecedure	4-3 4-4 4-5
4-1-2. Connecting Procecedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment	4-3 4-4 4-5 4-6
4-1-2. Connecting Procecedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements	4-3 4-4 4-5 4-6
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure	
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm	
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement	
4-1-2. Connecting Procecedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe)	4-3 4-4 4-5 4-6 4-6 4-8 4-8 4-8
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program	4-3 4-4 4-5 4-6 4-6 4-8 4-8 4-9
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program 4-3-4. Download Procedure	4-3 4-4 4-5 4-6 4-6 4-8 4-8 4-8 4-9 4-10
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program 4-3-4. Download Procedure 4-4. Cloning	
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program 4-3-4. Download Procedure 4-4. Cloning 4-4-1. Required Items	4-3 4-4 4-5 4-6 4-6 4-8 4-8 4-9 4-10 4-11
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program 4-3-4. Download Procedure 4-4. Cloning	4-3 4-4 4-5 4-6 4-6 4-8 4-8 4-9 4-10 4-11
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program 4-3-4. Download Procedure 4-4. Cloning 4-4-1. Required Items	4-3 4-4 4-5 4-6 4-6 4-8 4-8 4-9 4-10 4-11
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program 4-3-4. Download Procedure 4-4. Cloning 4-4-1. Required Items 4-4-2. Cloning Procedures	
4-1-2. Connecting Proceedure 4-1-3. Download Procedure 4-1-4. Writing Serial No. 4-2. Adjustment 4-2-1. Requirements 4-2-2. Adjustment Procedure 4-3. Palm 4-3-1. Requirement 4-3-2. Installing File Converter (PdbConvEN.exe) 4-3-3. Converting Software Program 4-3-4. Download Procedure 4-4. Cloning 4-4-1. Required Items 4-4-2. Cloning Procedures Chapter 5 Trouble Shooting / Maintenance	4-3 4-4 4-5 4-6 4-6 4-6 4-8 4-8 4-9 4-10 4-11 4-11

5-2. Trouble Shooting	5-2
5-2-1. General Troubles	5-2
5-2-2. Adjustment Troubles	5-4
5-2-3. Communication Troubles	5-5
5-3. Test Mode (Diagnostics)	5-6
5-3-1. DIP Switch Setting List	5-6
5-3-2. DIP Switch Test Procedure	5-6
5-3-3. Transport Motor Forward Rotation Test Procedure	5-6
5-3-4. Transport Motor Reverse Rotation Test Procedure	5-7
5-3-5. Aging Procedure	5-7
5-3-6. Solenoid Test Procedure	5-8
5-3-7. Accepting Test Procedure	
5-3-8. Entrance Flapper Test Procedure	
5-3-9. Exit Flapper Test Procedure	5-9
5-4. Cleaning	5-10
5-5. Maintenance Tool List	5-11
5-6. Wiring Diagram	5-12
5-5-1. PUB-7 Wiring Diagram	5-12
5-5-2. PUB-11 Wiring Diagram	5-13
5-7. Product Support	5-14
Chantay & Danlagamant	
Спариег о кергасешент	
6-1. Replacement of Faceplate Guide	6-2
•	6-3
6-1. Replacement of Faceplate Guide	6-3 6-4
6-1. Replacement of Faceplate Guide	6-3 6-4 6-5
6-1. Replacement of Faceplate Guide	6-3 6-4 6-5 6-9
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit	6-3 6-4 6-5 6-9
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List 7-1. Entire Unit & Option	
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List	
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List 7-1. Entire Unit & Option 7-1-1. Entire Unit & Option Exploded View 7-1-2. Entire Unit & Option Parts List	
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List 7-1. Entire Unit & Option 7-1-1. Entire Unit & Option Exploded View	
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List 7-1. Entire Unit & Option 7-1-1. Entire Unit & Option Exploded View 7-1-2. Entire Unit & Option Parts List	
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List 7-1. Entire Unit & Option 7-1-1. Entire Unit & Option Exploded View 7-1-2. Entire Unit & Option Parts List 7-2. TAIKO (PUB-7/PUB-11) Unit	
6-1. Replacement of Faceplate Guide	
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List 7-1. Entire Unit & Option 7-1-1. Entire Unit & Option Exploded View 7-1-2. Entire Unit & Option Parts List 7-2. TAIKO (PUB-7/PUB-11) Unit 7-2-1. TAIKO (PUB-7/PUB-11) Unit Exploded View 7-2-2. TAIKO (PUB-7/PUB-11) Unit Parts List	
6-1. Replacement of Faceplate Guide 6-2. Replacement of CPU Board 6-3. Replacement of MAG Board 6-4. Replacement of Sensor Board 6-5. Replacement of Encoder Board/Motor Unit 6-6. Replacement of Solenoid Chapter 7 Exploded View / Parts List 7-1. Entire Unit & Option 7-1-1. Entire Unit & Option Exploded View 7-1-2. Entire Unit & Option Parts List 7-2. TAIKO (PUB-7/PUB-11) Unit 7-2-1. TAIKO (PUB-7/PUB-11) Unit Exploded View 7-2-2. TAIKO (PUB-7/PUB-11) Unit Parts List	

Chapter 1

Introduction

- 1-1. Main Features
- 1-2. Prior to Use
- 1-3. Component Names
- 1-4. System Configuration
- 1-5. Operation Flowchart

Issue: 06/2008 4045-SME-001D

1-1. Main Features

In this section, TAIKO unit's main features are explained.

■ Easy Installation

Installation/removal of TAIKO unit is very easy in the clip-on style. Anyone can install the TAIKO unit easily.

■Data Scanning Frequency

Data Scanning frequency can be selected with DIP Switch. Normal scan (once) or twice is selectable by DIP switch. The acceptance rate can be improved by setting it twice.

■ Anti-fishing Function

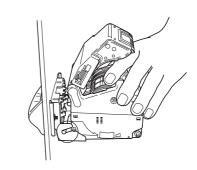
TAIKO unit is an Anti-Fishing functionequipped bill acceptor. It can prevent from the fishing such as a banknote with attached thread by rotating the dram. Normal operation (1 time) or 5 times dram cycles is selectable. It is selected with DIP switch. It prevent from the fishing more by setting it 5 times dram cycles.

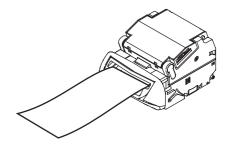
■ Palm Programmable

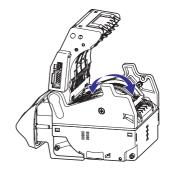
TAIKO unit can connect Palm (Palm's Tungsten C). Software program can be downloaded from palm easily at the field.

■ LED Pattern Selectable

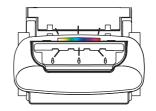
LED pattern can be changed with DIP switch depending on your circumstances. Pattern 1 or 2 is selectable.











1-2. Prior to Use

Be sure to follow these steps when creating the project for TAIKO unit.

1. Preparation

Before using TAIKO unit, check the all required hardware is present and read all specification, wiring, and installation information.

See => Chapter 2 Specifications or Chapter 3 Installation/Operation

2. Panel Cut Out

Creat the panel cut out on the door to install the TAIKO unit.

See => 3-1. Installation / Operation

3. Setting

Set the DIP switch depending on the connected machine or the features of TAIKO unit you want to use.

See => 2-5. DIP Switch Settings

4. Installation

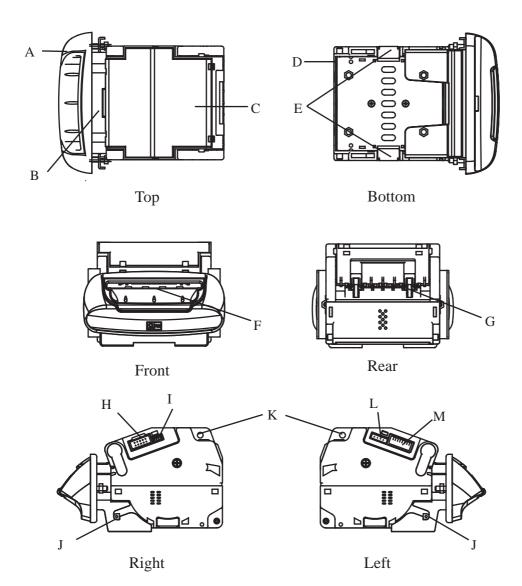
Install the TAIKO unit and connect the harness with the mashine.

See=> Chapter 2 Specifications, or Chapter 3 Installation/Operation

5. Operation

Turn on the power to the TAIKO unit.

1-3. Component Names



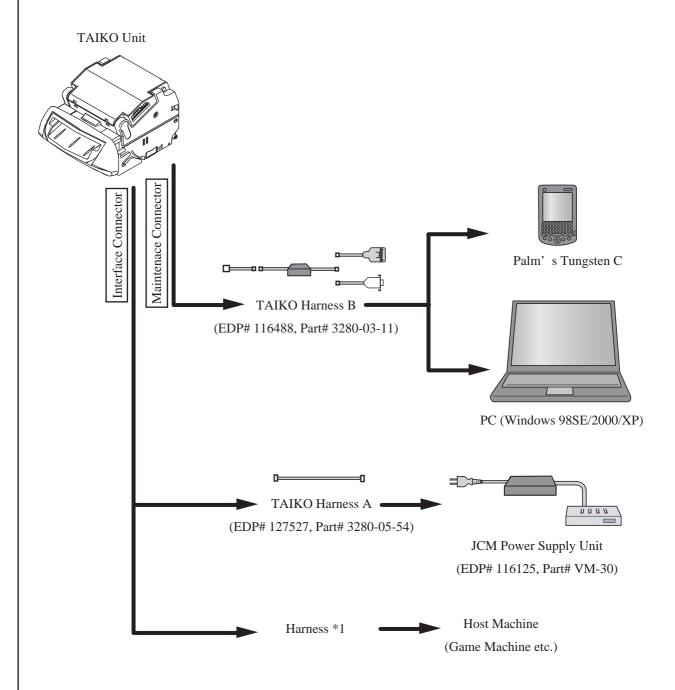
- A. Faceplate
- C. Upper lid
- E. Lower lid lock button
- G. Bill ejection slot
- I. Maintenance connector
- K. Upper lid open/close button
- M. DIP switches

- B. LED lamp
- D. Lower lid
- F. Bill insertion slot
- H. Interface connector
- J. Faceplate installation guide
- L. Optional connector

(*not for ID-001 Prallel Interface Specification)

1-4. System Configuration

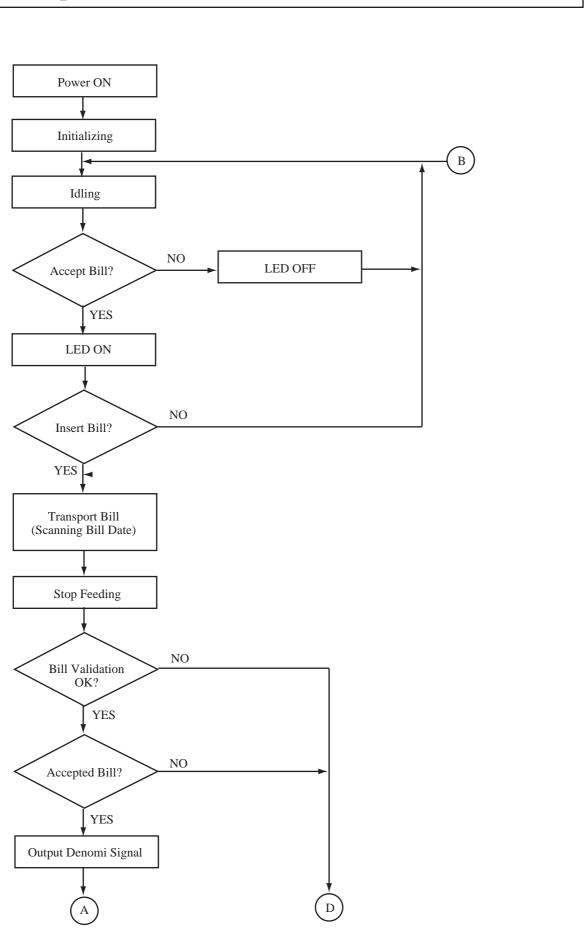
The following diagram represents the standard items can be connected to the TAIKO unit.

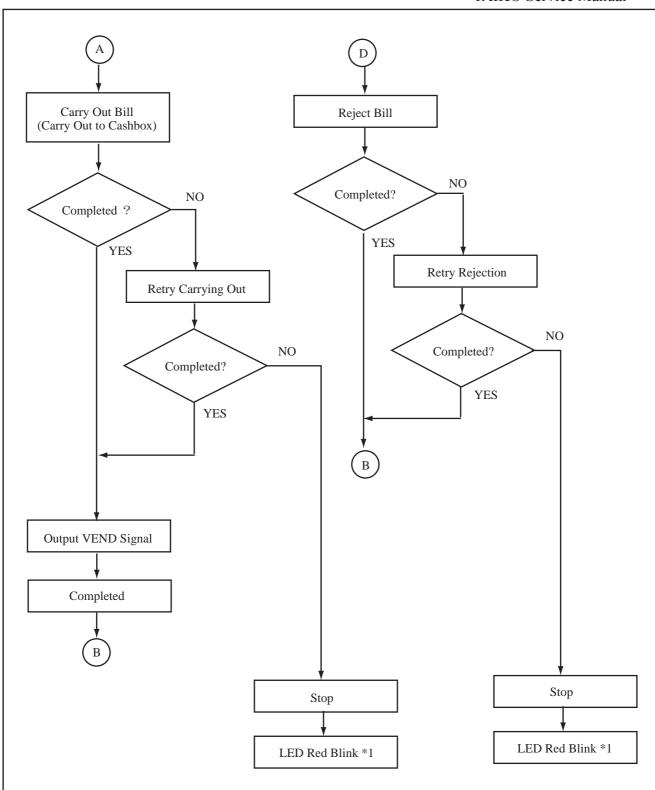


*1 Communication harness needs to be prepared by custmer.

(ref. 3-2-1. Reccomanded Parts)

1-5. Operation Flowchart





^{*1} Turn the pouwer OFF and clear the jammed bill. Then turn on the power again.

NOTE

TAIKO Service Manual

Chapter

Specifications

- 2-1. Specifications
- 2-2. Connector
- 2-3. Interface Circuit
- 2-4. External Dimensions
- 2-5. DIP Switch Settings

Issue: 10/2007 4045-SME-002J

2-1. Specifications

2-1-1. Basic Technical Specifications

A agantable Dankanata	Length: 120 mm to 160 mm
Acceptable Bankenote	Width: 62 mm to 82 mm
Insertion Direction *1	4-way
Accepting Rate *1	95% or higher
Validation Method	PUB-7: Optical/Transparency/Reflection
v andadon iviculou	PUB-11: Optical/Transparency/Reflection/MAG
Anti-Fishing Mechanism	Lever and optical sensor combination
Interface	X4: ccTalk/Serial(ID-003)/MDB/Pulse *2
mienace	01 : Parallel (ID-001)
Escrow	1 banknote
LED	LED lamp (upper potion of faceplate)
	Full-color lightning (gradation/solid)

- *1 May differ depending on the software for your country. For details, refer to the Software Information Sheet.
- *2 Can be selected using the DIP switches. See =>2-5-1 Dip Switch Settings (01:ID-001 Parallel Interface Specification doesn't have DIP Switch Setting.)

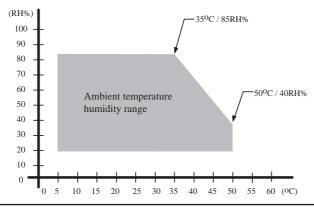
2-1-2. Electrical Specifications

Power Supply Voltage	12V DC ±5 %
	Standby: Approx. 0.1 A
Rated Power Consumption	Operation: Approx. 0.8 A
	Max: Approx. 1.4 A (Max. 300 ms)

2-1-3. Environmental Specifications

Operation Temperature *1	5°C to 50°C
Storage Temperature	-20°C to 60°C
Operation Humidity *1	20%RH to 85%RH (No condensation)
Storage Humidity	20%RH to 85%RH (No condensation)
	Avoid direct sunlight
Light Disturbande	Interior lighting must be incandescent lamp
Light Disturbande	Angle: 15 dgrees or more
	Illumination: 3000 Lx or less
Installation	For indoor use only

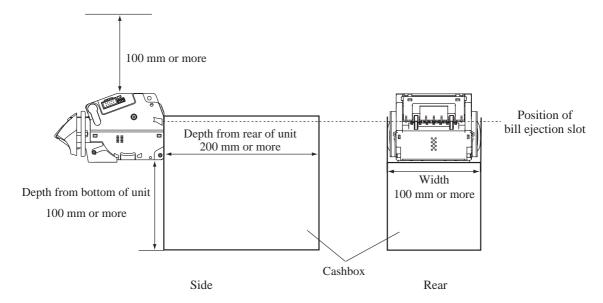
*1 The overall operation temperature and humidity range is as follows.



2-1-4. Installation Specifications

Installation *1	Door holizontal mounting (No vibration)		
Weight	Approx. 0.6 kg		
	With Type 1/2/3 faceplate:		
External Dimentions	124mm (W) x 88mm (H) x 145.2mm (D)		
External Dimendons	With Type 5 faceplate:		
	124mm (W) x 88mm (H) x 143mm(D)		
Cahsbox *2	Supplied by the customer		

- *1 Allow 100 mm above the unit to open the lid for removal of the unit from the faceplate.
- *2 The cashbox must be 100 mm or more in depth from the bottom of the TAIKO unit, 200 mm or more in depth from the rear of the unit and 100 mm or more in width. Both sides of the cashbox must be higher than the position of the bill ejection slot.



2-2. Connector

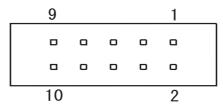


When a relay board has connected to the TAIKO unit, it was fixed inside so do not remove from the TAIKO unit.

2-2-1. Interface Connector

X4: ID-003 (serial)/ MDB/ Pulse/ ccTalk Specification

The following diagram is the interface connector as viewed from the acceptor side or from a relay board.



Box Type Plug XG4C-1034 (Omron)

2-2-1-1. Interface Connector Pin Assignments X4: ID-003 (serial)/ MDB/ Pulse/ ccTalk Specification



The following pin assignment is for TAIKO units with a blue JCM logo label. If the logois black, the pin assignment may differ. For details, contact JCM.



■ ccTalk Communication

Pin No.	Signal Name	I/O *1	Function
1	ccTalk+	IN/OUT	ccTalk Send/Receive Line
2	NC		Not Connected
3	NC		Not Connected
4	NC		Not Connected
5	NC		Not Connected
6	NC		Not Connected
7	Vec		12V DC Power Supply
8	Vss		Power Supply GND
9	NC		Not Connected
10	NC		Not Connected

^{*1} Conditions for the I/O (Input/Output) column are from the Bill Acceptor side.

■ ID-003 (serial)/ MDB Communication

Pin No.	Signal Name	I/O *1	Function
1	NC	-	Not Connected
2	NC	-	Not Connected
3	RXD-	IN	Data Send Line
4	RXD+	111	(Active when the current is applied)
5	TXD-	OUT	Data Receive Line
6	TXD+	001	(Active when the current is applied)
7	Vcc	-	12V DC Power Supply
8	Vss	-	Power Supply GND
9	NC	-	Not Connected
10	NC	-	Not Connected

^{*1} Conditions for the I/O (Input/Output) column are from the Bill Acceptor side.

■ Pulse Communication

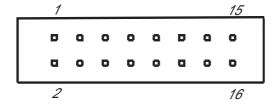
Pin No.	Signal Name	I/O *1	Function
1	NC	-	Not Connected
2	NC	1	Not Connected
3	Enable/Disable (-)		Enable/Disable Signal Input Line
		In	(Enable when the current is applied.
4	Enable/Disable (+)		Disable when the current is <u>NOT</u> applied.)
5	Vend(-)	Out	PULSE Signal Output Line
6	Vend(+)	Out	(Active when the current is applied.)
7	Vcc	1	12V DC Power Supply
8	Vss	-	Power Supply GND
9	NC	-	Not Connected
10	NC	-	Not Connected

^{*1} Conditions for the I/O (Input/Output) column are from the Bill Acceptor side.

2-2-2. Interface Connector

01: ID-001 (parallel) Specification

The following diagram is the interface connector as viewed from the acceptor side or from a relay board.

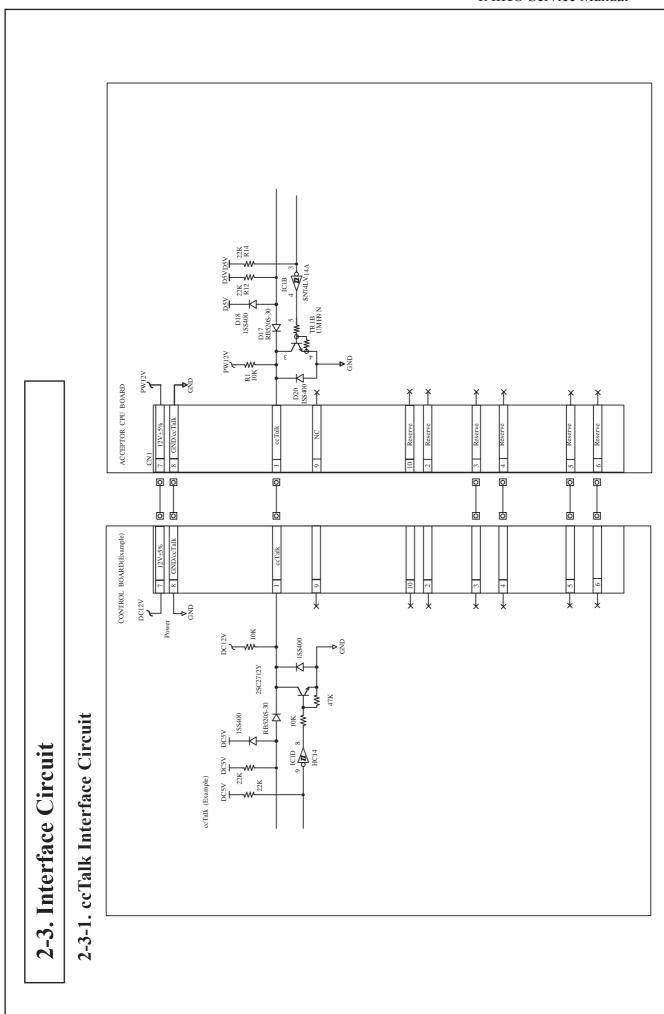


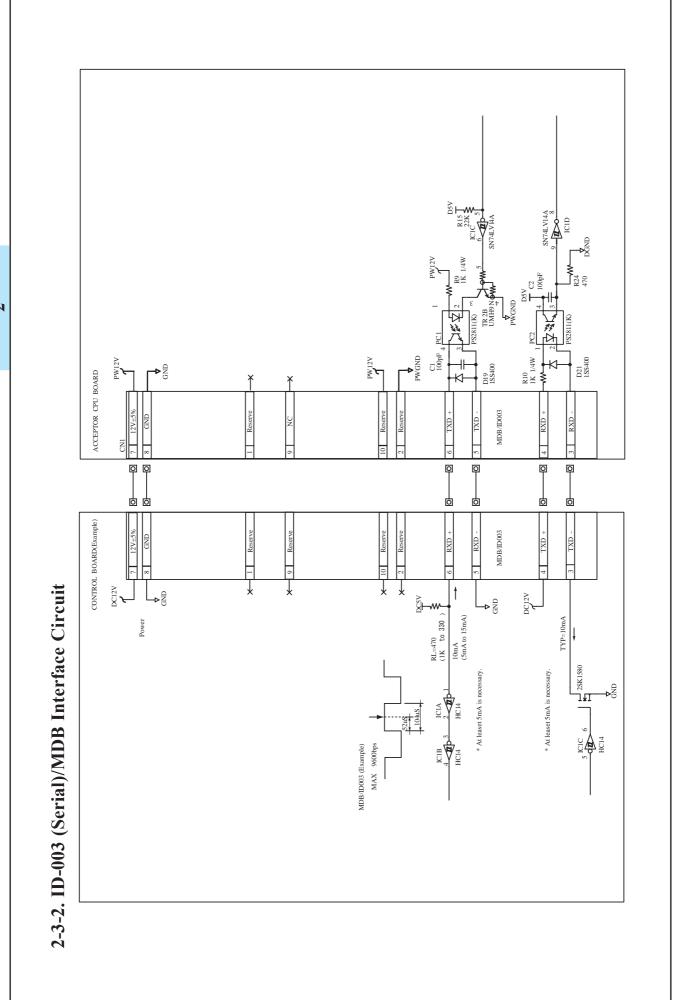
16PIN Connector S16B-PADSS-1(JST)

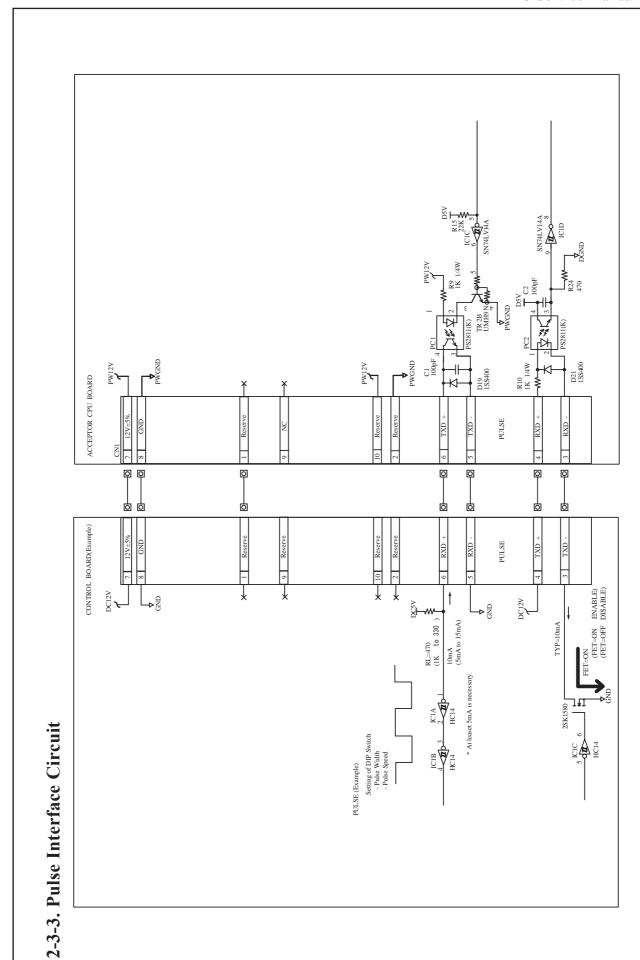
2-2-2-1. Interface Connector Pin Assignments 01: ID-001 (parallel) Specification

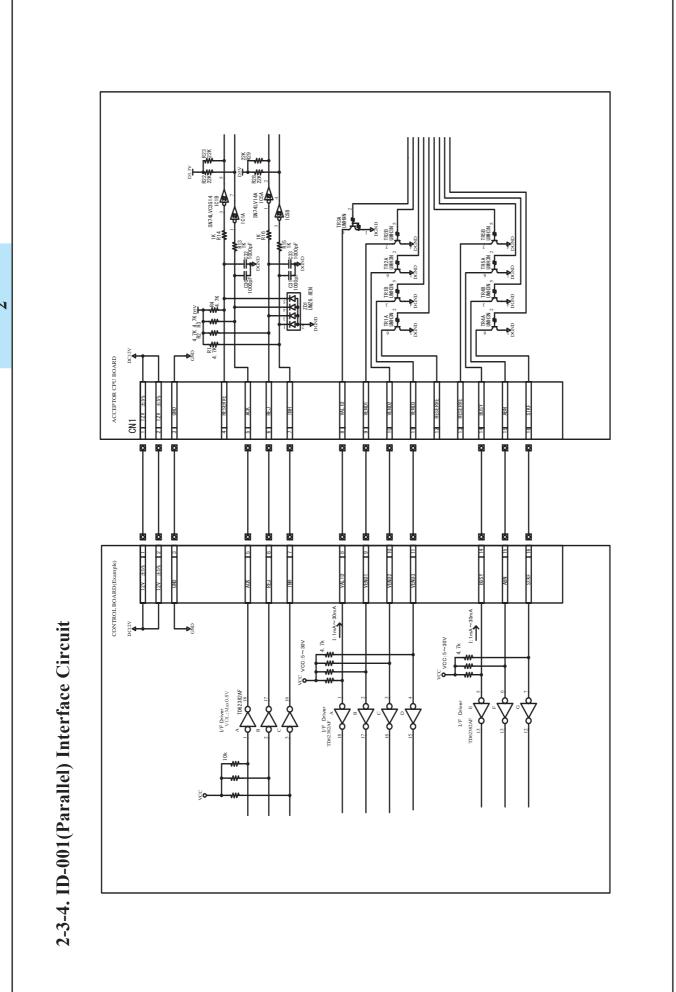
Pin No.	Signal Name	I/O *1	Function
1	VCC	-	12V DC Power Supply
2	VCC	-	12V DC Power Supply
3	VSS	-	Power Supply GND
4	NC	-	Not Connected
5	ACK		ACK signal receive line
6	REJ	IN	REJ signal receive line
7	INH		INH signal receive line
8	VALID		VALID signal send line
9	VEND1	OUT	VEND1 signal send line
10	VEND2	001	VEND2 signal send line
11	VEND3		VEND3 signal send line
12	NC	ı	Not Connected
13	NC	1	Not Connected
14	BUSY		BUSY signal send line
15	ABN	OUT	ABN signal send line
16	STKF		STKF signal send line

^{*1} Conditions for the I/O (Input/Output) column are from the Bill Acceptor side.



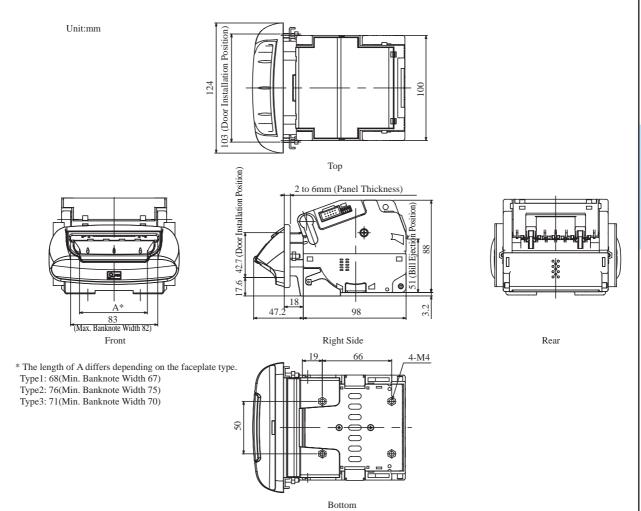




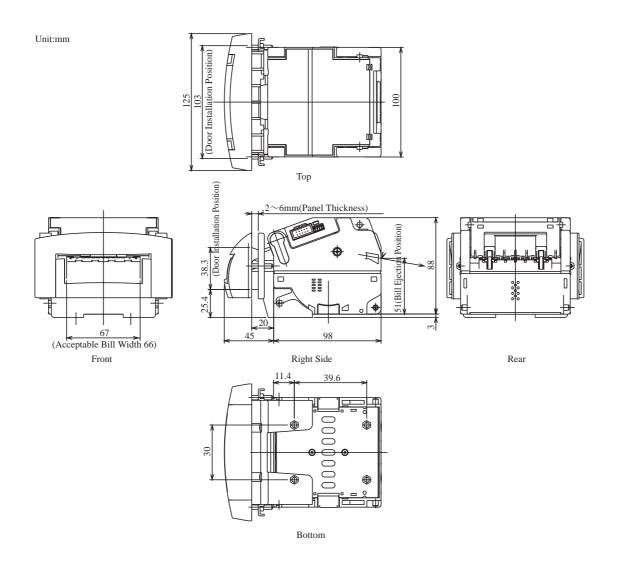


2-4. External Dimensions

2-4-1. When installing the Type1/Type2/Type3 faceplate with TAIKO unit

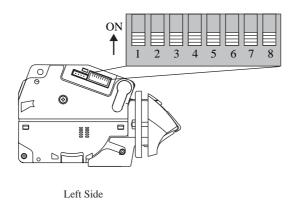


2-4-2. When installing the Type5 faceplate with TAIKO unit



2-5. DIP Switch Settings

The communication method and various functions of the TAIKO unit can be set with the DIP switches on the left side of the unit.



2-5-1. Basic Settings

X4: ID-003 (serial)/ MDB/ Pulse/ ccTalk Specification

Setting Item										
		Ol	N	OFF						
	,	Test Mo	ode *1	Normal Mode						
	Doul	ole-Sca	n Mode *2	Normal Scan Mode						
Reserved										
Five (5)	drum (cycles (fishing prevention) *3	Normal Operation						
Refer to the Software Specifications										
6	6 7 8 I/F Setting									
OFF	OFF	OFF	ID-003 (SERIAL	<u>_)</u>						
ON	OFF	OFF	MDB							
OFF	ON	OFF	ccTalk (Non Encryp	oted)						
ON	ON	OFF	ccTalk (Encrypte	d)						
-	-	ON	PULSE *4							
	6 OFF ON OFF	Five (5) drum of the control of the	Test Mo Double-Sca Five (5) drum cycles (6 7 8 OFF OFF OFF ON OFF OFF OFF ON OFF ON OFF	Five (5) drum cycles (fishing prevention) *3 Refer to the Softw 6 7 8 I/F Setting OFF OFF OFF ID-003 (SERIAL ON OFF OFF MDB OFF ON OFF ccTalk (Non Encrypton) ON ON OFF ccTalk (Encrypton)						

- *1 For details about the Test Mode, refer to 5-3. Test Mode.
- *2 The acceptance rate will be improved but operation time will be increased if a banknote is rejected.
- *3 Fishing prevention will be improved but operation time will be increased.
- *4 For Details about Pulse I/F, refer to the Software Information Sheet.

2-5-2. Basic Settings

01: ID-001 (parallel) Specification

SW#	Setting Item							
	ON	OFF						
1	Test Mode*1	Normal Mode						
2	Escrow Mode	No Escrow Mode						
3	Double-Scan Mode*2	Normal Scan Mode						
4	Five (5) drum cycles (fishing prevention)*3	Normal Operation						
5	Denomination Setting "INHIBIT"*4	Denomination Setting "ACCEPT"*4						
6	Denomination Setting "INHIBIT"*4	Denomination Setting "ACCEPT"*4						
7	Denomination Setting "INHIBIT"*4	Denomination Setting "ACCEPT"*4						
8	Denomination Setting "INHIBIT"*4	Denomination Setting "ACCEPT"*4						

- *1 For details about the Test Mode, refer to 5-3. Test Mode.
- *2 The acceptance rate will be improved but operation time will be increased if a banknote is rejected.
- *3 Fishing prevention will be improved but operation time will be increased.
- *5 For Details about demomination Stting "INHIBIT"/"ACCEPT", refer to the Software Information Sheet.

2-5-3. Special Settings

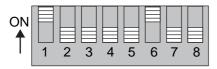
Setti	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	
Denomination	Accept Setting	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
Setting Mode	Inhibit Setting	ON	OFF	OFF	OFF	OFF	ON	ON	OFF
LED Pattern	Define Pattern 1	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
Setting Mode	Define Pattern 2	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
Encryption	ON	ON	ON	ON	ON	ON	OFF	OFF	
Setting Mode		UN	UN	UN	UN	UN	UN	OFF	OFF
Downlo	ON	OFF	OFF	OFF	OFF	OFF	ON	ON	
Adjustm	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	

*1 For details about Software Download and Adjustment, refer to Chapter 4 Download/Adjustment.

■ Denomination Setting Mode (This mode is for only ID-003 (serial)/ MDB/ Pulse/ccTalk Specification. Denomination Settings "INHIBIT"/"ACCEPT" are set by DIP Switches (See=>2-5-2) for ID-001 Parallel Interface Specification.)

Perform the accept/inhibit setting for the banknote denomination based on the software for your country. The default settings are to accept all denominations.

♦ Accept Setting



To perform the accept setting, set DIP switch Nos.1 and 6 to ON and then turn on the power to the TAIKO unit. After the LED flashes white, set DIP switch No.1 to OFF to enter the setting mode. Insert the denomination of banknote that you want accepted into the insertion slot. The setting is registered if the LED remains lit light blue and the banknote is returned. Insert the next denomination of banknote that you want accepted.

♦ Inhibit Setting



To perform the inhibit setting, set DIP switch Nos.1, 6 and 7 to ON and then turn on the power to the TAIKO unit. After the LED flashes white, set DIP switch No.1 to OFF to enter the setting mode. Insert the denomination of banknote that you want inhibit into the insertion slot. The setting is registered if the LED remains lit orange and the banknote is returned. Insert the next denomination of banknote that you want inhibited.



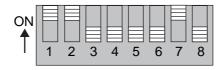
- The accept/reject setting for banknote denominations can be confirmed with the LED lamp. After the initial operation is performed, the LED will flash a number of times equal to the total number of banknote denominations. Blue indicates an accept setting and red means a reject setting.

Example: If 5, 10 and 20 euro notes are set be accepted and 50 and 100 euro notes to be rejected, the LED will flash the corresponding 5 times aws follows: blue, blue, blue, blue, red and red.

■ LED Pattern Setting Mode

The LED pattern can be changed according to your perference. Select between pattern 1 and pattern 2. The default setting is pattern 1.

♦ Define Pattern 1



♦ Define Pattern 2



Here on top you see two examples for DIP Switch settings.

LED Illumination Pattern Setting

- 1.•Make a note of the current Dip Switch settings of the unit in use.
- 2. Power off.
- 3.• [Pattern 1] Power up the acceptor with DipSw1,2,7 = ON. Other switches = OFF. [Pattern 2] Power up the acceptor with DipSw1,3,7 = ON. Other switches = OFF. [Pattern 3] Power up the acceptor with DipSw1,7 = ON. Other switches = OFF. [Pattern 4] Power up the acceptor with DipSw1,2,3,7 = ON. Other switches = OFF. [Pattern 5] Power up the acceptor with DipSw1,4,7 = ON. Other switches = OFF. [Pattern 6] Power up the acceptor with DipSw1,2,3,4,7 = ON. Other switches = OFF.
- 4.•Power up.
- 5.•Set DipSw1 = OFF, then LED illumination pattern is selected.
- 6.•If Setting is completed, Power OFF.
- 7.•Restore the original Dip Switch settings as noted in step 1.
- 8. Power up.
- 9.•Acceptor returns to stand by mode and the setup is completed.

PATTERN Table 1~6

- 1: Change color one into another color with SOFT Crossing
- 2: Change color one into another color with HARD Crossing
- 3: Lit in solid blue.
- 4: Lit in solid green.
- 5: Blink slowly in blue.
- 6: Blink slowly in green.

■ Encryption Code Initializing Setting Mode

When using ccTalk Communication(Encryption)Mode and the encryption code is unknown perform the Encryption Code Initialisation Setting to improve the Encryption to the last 6 didgits of the TAIKO serial number.



Set DIP switch No. 1 to 6 to ON (Set DIP switch No. 7 and 8 to OFF) and the supply the power to the TAIKO unit. Set DIP switch No. 1 to OFF to initialize the encryption code.

Chapter 3

Installation/ Operation

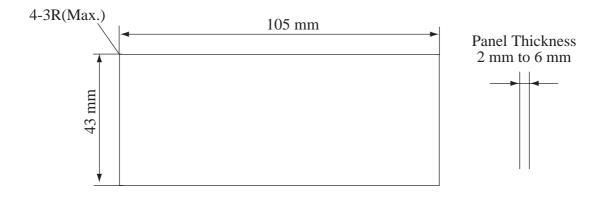
- 3-1. Installation/Removal
- 3-2. Wiring
- 3-3. Clearing a Banknote Jam

Issue: 06/2008 4045-SME-003D

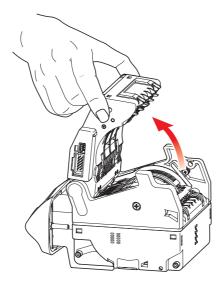
3-1. Installation/Removal

This section describes the procedures for installing of TAIKO unit. Perform the following procedure when installing the TAIKO unit.

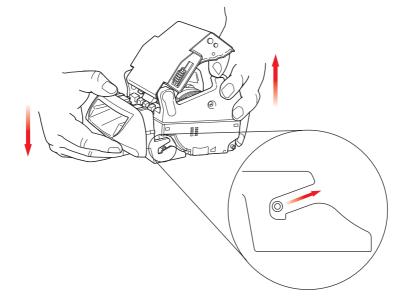
1. Use the panel cutting dimensions given below and create the correct size of opening required for installing the TAIKO unit to the door.



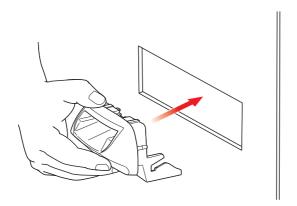
- 2. Hold in the upper lid open/close buttons on both sides of the TAIKO unit and open the upper lid in the direction of the arrow.
- 3. Grasp the TAIKO unit with your hand under the upper lid.



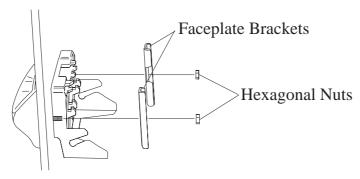
4. Press down slightly on the faceplate and raise up on the TAIKO unit. Slide the TAIKO unit up and back to detach it from the faceplate. back and up to detach it from the faceplate.



5. Remove the faceplate brackets (2) and the hexagonal nuts (2) from the faceplate, then insert the faceplate into the cutout from the front side of the door.



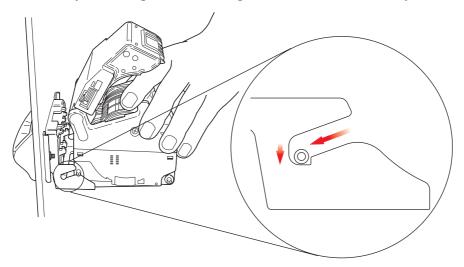
6. Fix the faceplate onto the door using the faceplate brackets (2) and the hexagonal nuts (2).



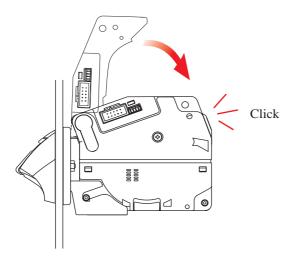


- Tightening the nuts with too much force can damage the faceplate. The required torque is 0.7 Nm.

- 7. Hold in the upper cover open/close buttons once again, open the upper cover, and grasp the TAIKO unit with your hand under the upper cover.
- 8. Insert the faceplate installation guide pin into the faceplate guide, and slide the TAIKO unit all the way into the guide and then push down, as indicated by the arrows.



9. Close the upper lid firmly until it clicks into place.





- Confirm that the TAIKO unit and faceplate are installed securely to the door.
- Cash Box and Stacker should be prepared by the user. Be sure to have over 200mm widths space from the acceptor's backside.
- Be careful not to get your finger caught when closing the upper lid.



- To remove the TAIKO unit, perform the procedure shown above in reverse order.

3-2. Wiring

This section describes the procedures for connecting the power harness to the TIKO unit. Follow the steps given below when connecting the power harness to the TAIKO unit.



- When installing the TAIKO unit or connecting the wiring harness, make sure that the power harness is unplugged from the power terminal.
- The TAIKO unit is designed to use only 12V (+5%) DC input. Any other power level can damage the unit.
- Do not pull on the power harness with undue force, as that may cause the power socket to become disconnected.

3-2-1. Recommended Parts

3-2-1-1. Recommended Parts

X4: ID-003(serial)/ MDB/ Pulse/ ccTalk Specification

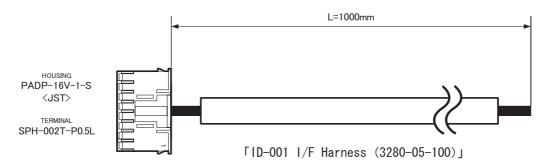
We recommend the following parts or equivalent of following parts for wiring.

Socket	Rock Lever Socket	Socket for flat cable
	XG5M-1032-N (Omron)	XG4M-1030-T (Omron)
Semi Cover XG5X-0501 (Omron)		-
Rock Lever II XG4Z-0002 (Omron)		-
		1.27 mm pitch flat cable
Applicable Wires	UL1061 AWG24	AWG28
		UL2651/UL20012

3-2-1-2. Recommended Parts

01: ID-001(parallel) Specification

ID-001 Parallel Interface Specification packaged "ID-001 I/F Harness(3280-05-100)" as illustrated below.



See=>2-2-1.Interface Connector Pin Assignments (ID-001(parallel))

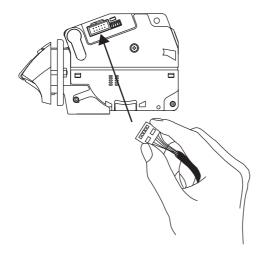
We reccomend the equivalent of following parts without using the packaged harness.

Housing	PADP-16V-1-S (JST)
Terminal	SPH-002T-P0.5L (JST)
Reccomended parts	UL1007 AWG26

3-2-2. Wiring Procedure

Perform the following procedure when connecting the power harness.

- 1. Confirm that there is no power being supplied to the power harness.
- 2. Connect the power harness to the TAIKO unit's interface connector.
- 3. Turn on the power and confirm that the TAIKO unit operates properly.



3-3. Clearing a Banknote Jam

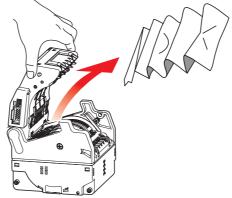
When a banknote becomes jammed inside the TAIKO unit, follow the instructions below to remove the jammed banknote.



- Be sure to turn off the power to the TAIKO unit when opening the upper and lower covers. Failure to do so may result in your fingers becoming caught in the moving roller.

■Open the upper lid

- 1. Confirm that the power to the TAIKO unit is turned off.
- 2. Hold in the upper cover open/close buttons and open the upper cover, then pull out the jammed banknote.

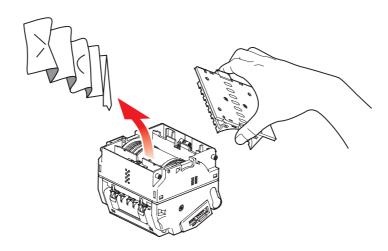




Be careful not to get your finger caught when closing the upper cover.

■Open the lower lid

- 1. Confirm that the power to the TAIKO unit is turned off.
- 2. Remove the faceplate from the TAIKO unit. See =>3-1. Installation/Removal
- 3. Hold in the lower cover lock release buttons and remove the lower cover, then pull out the jammed banknote.



TAIKO Service Manual

Chapter

Download & Adjustment

- 4-1. Download
- 4-2. Adjustment
- 4-3. Palm
- 4-4. Cloning

Issue: 11/2007

4-1. Download

The software download procedure is described in this section. When the software has been upgraded or the TAIKO unit's CPU board has been replaced, please download the software to the TAIKO unit.

When downloading a software from Palm, please refer 4-2. Palm.

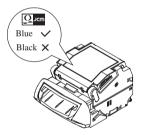
4-1-1. Requirements

When downloading, the following items are required.

- TAIKO unit
- TAIKO harness B (Part#: 3280-03-11, EDP#: 116488)
- Downloader (Download Program Ver. 1.21.exe)
- Software program (Ex. P07X3102.G_S)
- JCM power supply unit (Part#: VM-30, EDP#: 116125) or equivalent
- TAIKO harness A (Part#: 3280-05-54, EDP#: 127527)

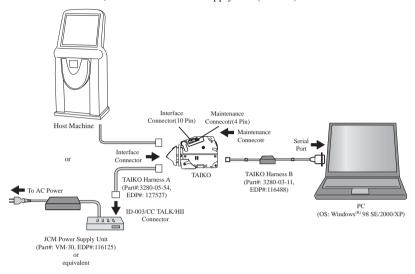


- When TAIKO unit is connected with host machine, JCM power supply unit and the TAIKO harness A are not required.
- The TAIKO harness A is only for TAIKO units with a blue JCM logo label.
 If the logo is black, the harness may differ. For details, please contact JCM.



4-1-2. Connecting Procedure

- 1. Set the DIP switch Nos.1, 7 and 8. DIP switch is located on the right side of TAIKO unit.
- 2. Connect TAIKO unit, PC and JCM Power Supply unit (VM-30) as shown below.

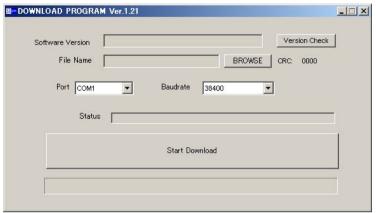


- 3. Turn the power of the JCM power supply unit ON to turn on the power to the TAIKO unit.
- 4. Confirm the TAIKO's green LED lamp is flashing.

4-1-3. Download Procedure

When downloading software, follow the steps as shown bellow.

 Double Click the Download Program Ver. 1.21.exe. The following window will be appear.



- 2. Select your PC's COM Port # from the Port pull down menu.
- 3. Select 38400 from the Baudrate pull down menu.
- Press the [Version Check] button to display current software which is installed in the TAIKO unit.
- Press the [BROWSE] button and select a software program you want to download to the TAIKO unit.
- 6. Press the [Start Download] button to start downloading.
- 7. When downloading is completed. TAIKO's LED lamp turn into Blue.
- 8. Turn off the power and remove the TAIKO unit.

4-1-4. Writing Serial No.

When replacing CPU board, follow the steps below and write Serial No..

1. Double click SerialNo.exe and then the following window will appear.



- Click [Read Serial Number] button and then 6-digit of current serial number will be displayed in the box next to the button. When the CPU board is new, nothing is displayed in the box.
- 3. Enter 6-digit of new serial number in the input box next to the [Write Seiral Number] button.
 - Example: If the serial number is 03050438058, enter the last 6-digit 438058.
- 4. Press the [Write Serial Number] button to start writing serial no.
- 5. Press the [Exit] button to close the window.

4-2. Adjustment

You learn how to adjust TAIKO unit in this section. After software program is downloaded or CPU/Sensor Board is replaced, the TAIKO unit needs to be adjusted.

4-2-1. Requirements

When adjusting TAIKO unit, the following items are required.

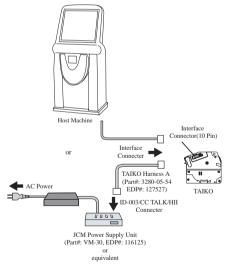
- Reference Paper (Part#: KS-070, EDP#: 119581)
- JCM power supply unit (Part#: VM-30, EDP#: 116125)
- TAIKO harness A (Part#: 3280-05-54, EDP#: 127527)



- When TAIKO unit is connected with host machine, JCM power supply unit and the TAIKO harness A are not required.

4-2-2. Adjustment Procedure

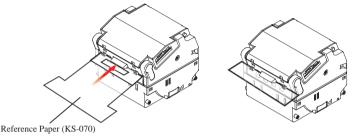
- Confirm the power is not supplied to the TAIKO unit and remove the TAIKO unit from the faceplate. For details about removing the faceplate, refer to the 3-1. Installing/ Removing.
- 2. Connect the TAIKO unit and JCM Power Supply unit as shown below.



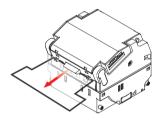
3. Set the TAIKO's DIP switch Nos.1, 2 and 8 ON. The DIP switch is located on the right side of the unit.



- 4. Turn on the power to the TAIKO unit. Confirm that TAIKO's white LED lamp is flashing.
- 5. Set the DIP switch No.1 OFF and confirm that TAIKO's green LED lamp lights.
- 6. Insert the reference paper (KS-070) to the TAIKO unit. Then the roller start rotating and then continue to insert the reference paper all the way in.



- 7. When the reference paper reaches all the way in, green LED flashes.
- Set the DIP switch No.8 OFF to start the paper adjustment. Confirm that TAIKO's yellow LED lights.
- 9. When the paper adjustment is completed, the reference paper come out of the TAIKO unit automatically. Remove the reference paper.



- Confirm the green LED lights and set the DIP switch No.8 ON to start the no paper adjustment.
- 11. Confirm that TAIKO's yellow LED lights.
- 12. When the paper adjustment and EEPROM writing is completed successfully, confirm that TAIKO's blue LED lights.



If the adjustment and EEPROM writing is not completed successfully, the red LED lights. Please start again from the beginning.

4-3. Palm

Download procedure using Palm is described in this section.

4-3-1. Requirement

When adjusting TAIKO unit, the following items are required.

- Palm (Palm(R)'s Tungsten C)
- TAIKO Harness B (Part#: 3280-03-11, EDP#: 116488)
- File Converter Installer (setup.exe/SETUP.LST/PdbConvEN.CAB)
- Download Program (ID003DWN.prc)
- Software Program (Ex. P07X3102.G S)
- JCM power supply unit (Part#: VM-30, EDP#: 116125)
- TAIKO harness A (Part#: 3280-05-54, EDP#: 127527)



 When TAIKO unit is connected with host machine, JCM power supply unit and the TAIKO harness A are not required.

4-3-2. Installing File Converter (PdbConvEN.exe)

When downloading a software from palm, the file needs to be convert into prc format. Follow the steps below to install the File Converter (PdbConvEN.exe).

- 1. Save the setup.exe/SETUP.LST/PdbConvEN.CAB to your PC.
- 2. Double click the setup.exe to start to install.
- 3. Follow the instruction on the screen and complete installing.
- 4. PdbConvEn.exe icon is created on your PC's desktop.



4-3-3. Converting Software Program

Follow the steps below, convert the software program into prc format.

 Double click the PdbConvEn.exe icon to start the PdbConvEn. The following window will appear.



- Confirm the Download File tab and click the [...] button to select a file you want to convert.
- 3. Click the [Convert PDB] button to start the conversion.
- 4. After CRC is displayed, convension is completed.
- 5. Click the [Finish] button and close the PdbConvEn.exe.

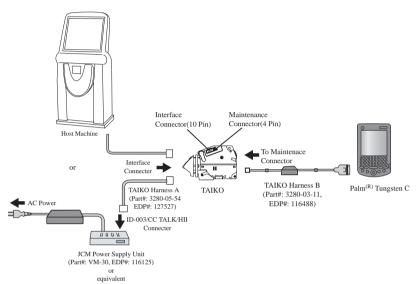


 Please import the downlader(ID003DWN.prc) for the palm and the software converted into prc format to palm referring to your Tungsten C Manual.

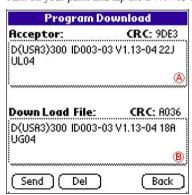
4-3-4. Download Procedure

When downloading a software from your palm, follow the instructions below.

- 1. Set the TAIKO unit's DIP switch Nos. 1, 7 and 8 ON.
- Connect your palm with the TAIKO unit as shown below and supply the power to the TAIKO unit.



3. Turn on your palm and tap the DWN-03 icon. The following screen will be displayed.



- 4. When tapping the area (A) shown below, the software information which is currently installed in the TAIKO unit will be showed.
- 5. Tap the area (B) and select the software you want to download.
- 6. Tap the [Send] button to start downloading.
- 7. When the downloading is complete, the screen returns to the previous automatically.

4-4. Cloning

Using the Clone Harness, the software can be copied from the Master TAIKO unit to Salve TAIKO unit. (Cloning)

4-4-1. Required Items

When cloning, the following items are required.

- TAIKO unit installed the cloning feature applicable software (Master)
- TAIKO unit to copy the software (Slave)
- Clone Harness (Part#: 3280-05-52, EDP#: 124528)
- JCM Power Supply Unit (Part#: VM-30, EDP#: 116125) or equivalent
- TAIKO harness A (Part#: 3280-05-54, EDP#: 127527)

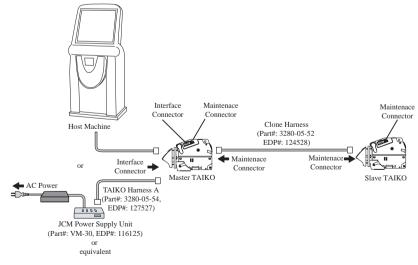


- For the cloning features applicable software, refer to the Software Information Sheet
- If the master TAIKO unit is connected with the host machine, the JCM power supply unit and TAIKO harness A are not required.

4-4-2. Cloning Procedures

Follow the steps below to clone.

1. Connect the master TAIKO unit and the slave TAIKO unit as shown below.



2. Set the DIP switch of the master TAIKO unit Nos. 1, 2, 7 and 8 ON and the DIP switch of the slave TAIKO unit Nos. 1, 7 and 8 ON.

- 3. Confirm the LED lamp of the master TAIKO unit is flashing withe, the LED lamp of the slave TAIKO unit is flashing green.
- 4. Set the DIP switch of the master TAIKO unit No. 1 OFF to start cloning.
- 5. When starting cloning, the LED lamp of the master TAIKO unit lights pink, the LED of the slave TAIKO unit lights yellow.
- 6. When the LED lamp of the slave TAIKO unit lights blue (or flashes green), the cloning is complete. (Approx. 15 minutes)
- 7. Set the DIP switch of the master TAIKO unit No.1 ON.
- 8. When producing another clone TAIKO, turn off the power, connect another slave TAIKO unit and perform from the step 2.

TAIKO Service Manual

Chapter 5

Trouble Shooting / Maintenance

- 5-1. Error Codes
- 5-2. Trouble Shooting
- 5-3. Test Mode (Diagnostics)
- 5-4. Cleaning
- 5-5. Maintenance Tool Lists
- 5-6. Wiring Diagrams
- 5-7. Product Support

Issue: 06/2008 4045-SME-005G

5-1. Error Codes

Number of Red flashes of the LED lamp indicates the Error of TAIKO unit. LED lamp is located in the middle of the faceplate. See=> 1-3. Component Names

5-1-1. Error Codes

# of Flashes	Diagnostic Description
2	ROM error
3	Banknote remains inside ejection slot
4	Banknote remains inside transport path
5	EEPROM read/write error
6	Motor error
8	Entrance solenoid error
9	Exit solenoid error
12	Fraud detected

5-2. Trouble Shooting

When an error message appears or trouble is occures and the TAIKO unit does not work properly, recover the TAIKO unit following the instruction below.

5-2-1. General Troubles

Symptom/Error Message	Possible Causes	Recovery Action
	Power is not supplied to the	Verify the specified voltage and ground
	acceptor.	are supplied to appropriate pins of the
	иссерия.	interface connector.
		Verify if all harnesses and connectors
		are connected properly.
		Verify if the connector pin has been any
	Connection is wrong.	bend, missing, broken.
		Verify if the specified voltage is supplied
Acceptor is not working		to the appropriate pin. See=> Chapter
(Acceptor does not accept		2 Specifications
any bill)	Software is not downloaded.	Download the appropriate software to
any om)		the TAIKO unit. See=> 4-1.Download
		Perform Acceptance Test. See => 4-2.
		Adjustment
		If the test result is NG, replace the
	CPU/Sensor Board is	CPU/Sensor Board. See=> Chapter 6
	Corrupted.	Replacement procedure
		After CPU/Sensor board is replaced,
		perform the adjustment. See=> 4-2.
		Adjustment

Symptom/Error Message	Possible Causes	Recovery Action
		Remove the foreign object and clean
		the entrance sensor. See=> 5-4.
1	Entrance Sensor is not	Cleaning
Acceptor is not working.	working or there is any	Perform Aging. See=> 5-3-5. Aging
(Acceptor does not accept	foreign object at the	details
any bills.)	entrance.	If any sensor error is found, replace
		the CPU/Sensor board. See=>
		Chapter 6 Replacement Procedure
		Clean the feed or Pinch roller. See=>
		5-4. Cleaning
	Feed or Pinch roller is	If any corruption is found, replace it.
	spoiled with dirt or broken.	See=> 6-4. Replacement of Sensor
		Board and 7-2. TAIKO(PUB-
		7/PUB-11) Unit
		Verify the condition of the Feed or
	Earl on Dinah nallan annina ia	Pinch roller spring by pressing with
	Feed or Pinch roller spring is	fingertips and replace it as required.
	missing or loose.	See=> 7-2. TAIKO(PUB-7/PUB-11)
JAM bill occurs often.		Unit
	There is any foreign chicate	Remove the foreign objects from the
	There is any foreign objects	transport path and clean. See=> 5-4.
	is on the transport path.	Cleaning
	Faceplate does not match	Change the faceplate guide depending
	with the bill width.	on the bill width. See=> $3-1$.
		Installation/Removal
	The bill width is 83mm or	
	larger or 62mm or less.	Use the only acceptable bills. See=>
	(Out of TAIKO	Chapter 2 Specifications
	Specifications)	
	Rollers, belts and lenses is	Clean the rollers, belts and lenses.
	soiled with dirt.	See=> 5-4. Cleaning
	Sensor needs to be adjusted.	Adjust the TAIKO unit. See=> 4-2.
		Adjustment
	After disassembled, the	Adjust the TAIKO unit. See=> 4-2.
Acceptance rate is low.	TAIKO has not been	Adjustment
Treespance rate is to w.	adjusted.	, and the second
	The software revision is old.	Download the latest software program.
		See=> 4-1. Download
	The bill that software	Verify if the denomination, issued year
	program is not supported is	is appropriate in the software
	inserted.	information sheet.

Symptom/Error Message	Possible Causes	Recovery Action		
	Software does not match with the currency.	Download the appropriate software program to the TAIKO unit. See=> 4-1. Download		
	DIP Switch setting is wrong.	Set the accepting setting properly. See=> 2-5. DIP Switch Setting		
All bills are returned.	The command from Host is set to inhibit.	Set the command to accept.		
	CPU/Sensor failure is	Replace CPU/Sensor Board. See=>		
	occurred.	Chapter 6 Replacement Procedure.		
		Clean all sensors. See=> 5-4.		
	Sensor needs to be cleaned	Cleaning		
	and adjusted.	Perform adjustment See=>4-2.		
		Adjustment		
	CPU board failure	Replace the CPU board. See=> 6-		
Motor rotates a few times		2. Replacement of CPU board		
and stop.	DIP Switch setting is wrong.	Set the DIP Switch No.1 ON and		
	Dir Switch setting is wrong.	supply the power to the TAIKO unit.		
		Perform the DIP Switch TEST.		
		See=> 5-3-2. DIP Switch Test		
	DIP Switch is broken.	Details		
Cannot enter the Test Mode.	Dir Switch is bloken.	If the test result is NG, replace the		
Carmot Cinci die 16st Wiode.		CPU board. See=> 6-2. Replace of		
		CPU board		
	CPU board failure	Replace the CPU board. See=> 6-		
	Ci C board ianaic	2. Replace of CPU board		

5-2-2. Adjustment Troubles

Symptom/Error Message	Possible Causes	Recovery Action	
	Reference paper is wrong.	Use the reference paper (KS-070)	
	Reference paper is wrong.	for TAIKO.	
Adjustment Error		Replace the CPU/Sensor board.	
	CPU/Sensor board failure.	See=> Chapter 6 Replacement	
		Procedure	

5-2-3. Communication Troubles

Symptom/Error Message	Possible Causes	Recovery Action	
	DIP switch setting is wrong.	Set all DIP Switches OFF and	
	DIF Switch setting is wrong.	supply the power to the TAIKO unit.	
	Connector is unplugged or is not connected properly.	Connect all connector properly.	
	not connected property.	Verify if the connector pin is any	
Cannot communicate with	Connector pin is broken.	bend, broken or missing.	
Host	CPU board failure Interface is wrong.	Replace the CPU board. See=> 6-	
		2. Replacement of CPU board	
		Verify if the interface is appropriate	
		with Host. If wrong, set the interface	
		properly. See=> 2-5. DIP Switch	
		Settings	



When you cannot solve the problem even if you follow the instruction above, please contact JCM. See => 5-7. Product Support

5-3. Test Mode (Diagnostics)

TAIKO has the diagnostics function. TAIKO can be specified the part of the error using the diagnostic funktion.

5-3-1. DIP Switch Setting List

Test Items		SW2	SW3	SW4	SW5	SW6	SW7	SW8
DIP Switch Test	ON	ON	ON	ON	ON	ON	ON	ON
Transport Motor Forward Rotation Test	ON	OFF						
Transport Motor Reverse Rotation Test	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Sensor Test		OFF	ON	OFF	OFF	OFF	OFF	OFF
Solenoide Test	ON	ON	ON	ON	OFF	OFF	OFF	OFF
Accepting Test	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
Entrance Flapper Test	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
Exit Flapper Test	ON	ON	OFF	ON	ON	OFF	OFF	OFF

5-3-2. DIP Switch Test Procedure

Test the DIP switches.

- 1. Set all DIP switches ON and then supply the power to the TAIKO uit.
- 2. Set the switch No.1 OFF to start the test.
- 4. Set the switch Nos.3, 5 and 7 OFF and verify if the LED lamp lights Green.
- 3. Then set the switch Nos.2, 4, 6 and 8 OFF and verify the LED lamp lights Blue.No error is found



IIf TAIKO's red LED lights, the DIP Switch has a problem.

5-3-3. Transport Motor Forward Rotation Test Procedure

Test the condition of the Transport Motor forward rotation.

- 1. Set the switch No.1 ON and supply the power to the TAIKO unit.
- 2. Set the switch No.1 OFF to start the test. The transport motor rotates forward.
- 3. If the Blue LED lamp blinks despite the number, the test is completed. No error is found.



 If TAIKO's red LED lamp lights, the Transport Motor has a problem.

5-3-4. Transport Motor Reverse Rotation Test Procedure

Test the condition of the Transport Motor reverse rotation.

- 1. Set the switch No.1 and 2 ON and supply the power to the TAIKO unit.
- 2. Set the switch No.1 OFF to start the test. Ther transport motor rotates reverse.
- 3. If the Blue LED lamp blinks despite the number, the test is completed. No error is found.



 If TAIKO's red LED lamp lights, the Transport Motor has a problem.

5-3-5. Aging Procedure

- 1. Set the switch No.1, 2 and 4 ON and supply the power to the TAIKO unit.
- 2. Set the switch No. 1 OFF to start the test. TAIKO unit repeates the following operation. LED lamp lights => Motor rotates foward => Motor rotates reverse
- 3. If an sensor error is found while aging, the TAIKO stop the operation. You can specified the error of the sensor with the number of the LED lamp blinks.

# of Flashes	Sensor Position
riasnes	ROM Error
2	JAM inside Acceptor
3	Bill remains inside transport path
4	Adjustment Error
5	Motor Error
6	Entrance Solenoid Error
7	Exit Solenoid Error
8	Sensor operation at the abnormal timing
1	Penetration (Upper to Lower) Right IR
2	Penetration (Upper to Lower) Left IR
3	Penetration (Upper to Lower) Right RED
4	Penetration (Upper to Lower) Left RED
5	Penetration (Upper to Lower) Right NIR
6	Penetration (Upper to Lower) Left NIR
7	Penetration (Upper to Lower) Right BLUE
8	Penetration (Upper to Lower) Left BLUE
1	Penetration (Lower to Upper) Right IR
2	Penetration (Lower to Upper) Left IR
3	Penetration (Lower to Upper) Right RED
4	Penetration (Lower to Upper) Left RED
5	Penetration (Lower to Upper) Right NIR
6	Penetration (Lower to Upper) Left NIR
7	Penetration (Lower to Upper) Right BLUE
8	Penetration (Lower to Upper) Left BLUE

5-3-6. Solenoid Test Procedure

Test the condition of the solenoids.

- 1. Set the switch Nos.1, 2, 3 and 4 ON and turn ON the power to the TAIKO unit.
- 2. Set the switch No.1 OFF to start the test. The TAIKO unit repeates the following operation.

Entrance Flapper (Solenoid) On/Off => Exit Flapper (Solenoid) On/OFF

3. If the Blue LED lamp lights, no error is found.



- If TAIKO's red LED lights, the Solenoid has a problem.

5-3-7. Accepting Test Procedure

Test the condition of the acceptance of the bils.

- 1. Set the switch No.1, 2, and 5 ON and supply the power ON.
- 2. Set the switch No.1 OFF to start the test. Then insert the bill to the TAIKO unit.
- 3. If the bill is returned, the LED flashes depending on the reason for the reterning.

# of Flashes	Diagnostic Description
2	ROM Error
3	JAM inside Acceptor
4	Bill remains inside transport path
5	Adjustment Error
6	Motor Error
8	Entrance Solenoid Error
9	Exit Solenoid Error
12	Sensor operation at the abnormal timing
1	Reject by slant insertion
4	X-rate Error
5	Bill Transportation Error
7	Pattern Error
8	Photo Level Error
9	Reject by Inhibit Setting
12	Magnetism Pattern Error (PUB-11 Only)
13	Bill Length Error
14	Ir/Red Error
15	Reject by counterfeiting currency

5-3-8. Entrance Flapper Test Procedure

Test the entrance flapper.

- 1. Set the switch Nos.1, 4 and 5 ON and turn the power to the TAIKO unit.
- 2. Set the switch No.1 OFF to start the test. Then the entrance flapper repeates open/close operation.
- 3. If the Blue LED lamp lights, no error is found.



 If TAIKO's red LED lamp lights, the Entrance Flapper has a problem.

5-3-9. Exit Flapper Test Procedure

Test the exit flapper.

- 1. Set the switch Nos.1, 2, 4 and 5 ON and turn ON the power to the TAIKO unit.
- 2. Set the switch No.1 OFF to start the test. Then the exit flapper repeates open/close operation.
- 3. If the Blue LED lamp lights, no error is found.



- If TAIKO's red LED lamp lights, the Exit Flapper has a problem. Please contact your nearest distributor or our sales representative. See=> 5-7. Productt Support

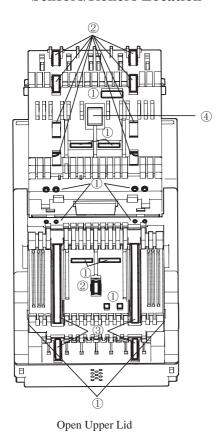
5-4. Cleaning

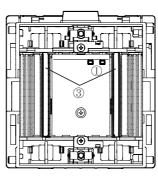
If the paper dust or foreign object spotted in the acceptor parts, the acceptance rate may go down. Clean the acceptor parts once a month. Wipe out on the sensor with lint-free cloth or cotton bud. Remove the paper dust or foreign object completely on the rollers.

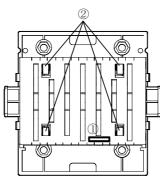


- DO NOT use the organic solvent such as thinner or benzin, when wiping the TAIKO unit.

■ Sensors/Rollers Location







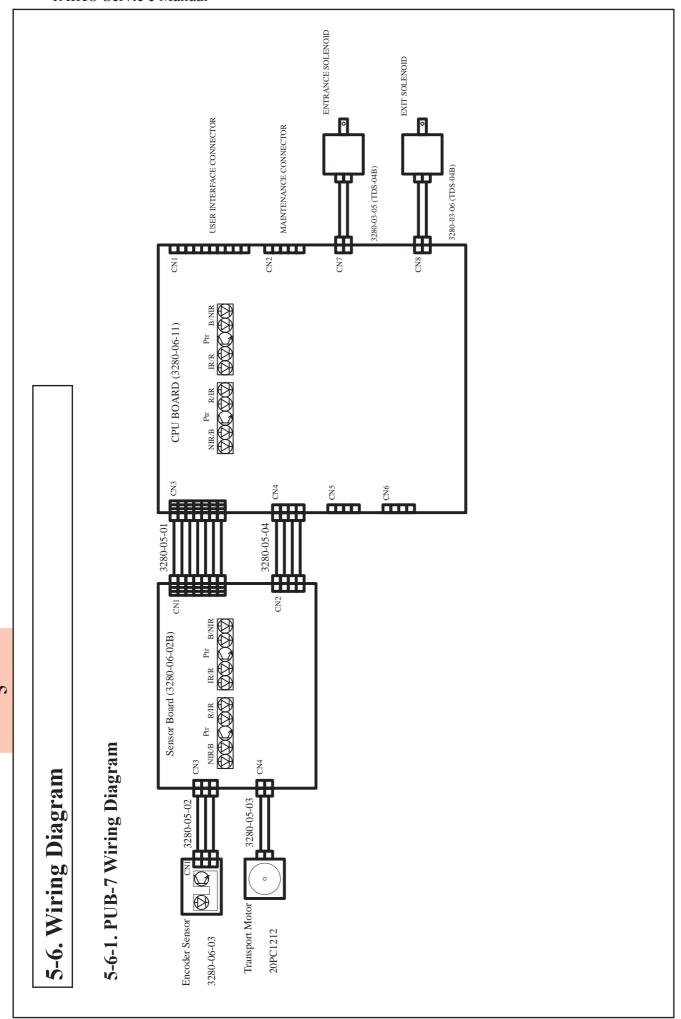
Open Lower Lid

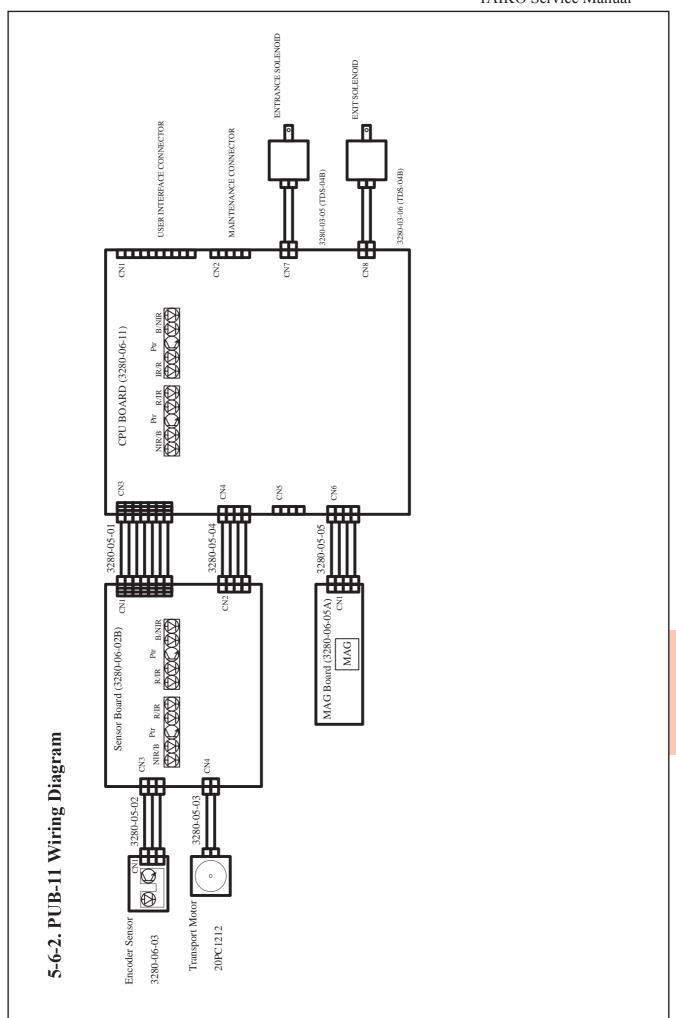
- ①Sensor
- ②Pinch Roller
- ③Feed Roller
- (4) Magnetic Sensor (For only Pub-11)

5-5. Maintenance Tool List

When maintenace or adjust TAIKO unit, the following parts need to be parchased.

Items	EDP#	Part#	Description			
Power Supply Unit	116125	VM-30	This unit is to supply the power to TAIKO			
Tower Supply Onit	110123	V1V1-30	unit.			
TAIKO Harness A	127527	3280-05-54	This harness is to connect with TAIKO unit			
TAIKO Hamess A	12/32/	3280-03-34	This harness is to connect with TAIKO unit ant Power Supply Unit. This harness is to connect with PC and TAIKO unit when downloding or connecting with palm.			
			This harness is to connect with PC and			
TAIKO Harness B	116488	3280-03-11	TAIKO unit when downloding or connecting			
			with palm.			
Clone Harness	124528	3280-05-52	This harness is to connect with a master			
Cione Hamess	124326	3280-03-32	TAIKO and a slave TAIKO when cloning.			
Reference Paper	119581	KS-070	This is a reference paper to adjust TAIKO			
Reference Paper	117301	K5-0/0	unit. This harness is to connect with TAIKO unit ant Power Supply Unit. This harness is to connect with PC and TAIKO unit when downloding or connecting with palm. This harness is to connect with a master TAIKO and a slave TAIKO when cloning.			





5-7. Product Support

If you happen to experience any problems or errors with your TAIKO unit, or have any inquiries regarding your unit, consult with your nearest JCM contact as shown below. Please be sure to make a note of the problem points andy symptoms, or the content of your inquiry, prior to making contact.

■ Japan

Japan Cash Machine Co. Ltd. (Headquarters)

3-15, Nishiwaki 2-Chome, Hirano-ku, Osaka 547-0035

Japan

URL: www.jcm-hq.co.jp

■ Americas, Oceania

JCM American Corporation

925 Pilot Road,

Las Vegas, NV 89119

U.S.A.

e-mail: customerservice@jcm-american.com URL: www.jcmamerican.com

■ Europe, Russia, Middle East, Africa Japan Cash Machine Germany GmbH

Mündelheimer Weg 60 D-40472 Düsseldorf

Germany

■ UK, Ireland

JCM United Kingdom Ltd.

Unit B, Third Avenue, Denbigh West Business Park Bletchley, Milton Keynes, Buckinghamshire MK1 1EJ,

UK

■ Asia (other than Japan)

JCM Gold (HK) Ltd.

Unit 1-7, 3F., Favor Industrial Centre 2-6 Kin Hong Street, Kwai Chung, N.T.

Hong Kong

Phone: +852-2429-7187 Fax: +852-2929-7003 e-mail: cs@jcmgold.com.hk URL: www.jcmgold.com.hk

TAIKO Service Manual

Chapter 6

Replacement Procedure

6-1. Replacement of Faceplate Guide

6-2. Replacement of CPU Board

6-3. Replacement of MAG Board (PUB-11 Only)

6-4. Replacement of Sensor Board

6-5. Replacement of Encoder Board/

Motor Unit

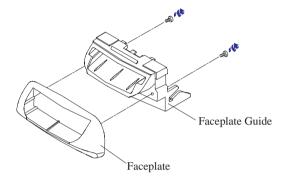
6-6. Replacement of Solenoid

Issue: 06/2008 4045-SME-006D

6-1. Replacement of Faceplate Guide

When replacing the Faceplate Guide, follow the instructions below.

- 1. Take out two (2) screws from bihind the Faceplate unit.
- 2. Remove a (1) Faceplate Guide from the Faceplate.
- 3. Insert a (1) new Faceplate Guide into the Faceplate and then tighten two (2) screws to hold the Faceplate Guide.



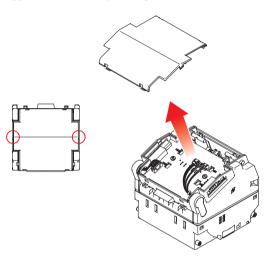


- Tightening the nuts with too much force can damage the faceplate. The necessary torque is 0.7N ⋅ m.

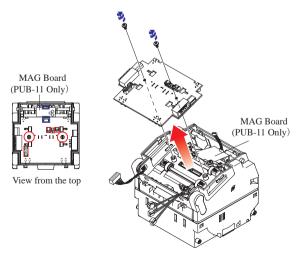
6-2. Replacement of CPU Board

When replacing the CPU Board, follow the instructions below.

1. Insert your fingernail into the gap of left or right side of the Upper Lid. Lift up the Upper Lid Cover with your fingernail and remove it.



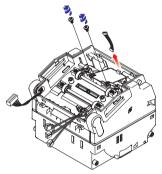
2. Unplug four (4) connectors and take out two (2) tapping screws on the CPU Board to remove the CPU Board.



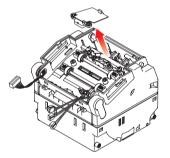
6-3. Replacement of MAG Board (PUB-11 Only)

The MAG board is mounted in the PUB-11 unit. When replacing the MAG Board, follow the instructions below.

1. Take out a connector and two (2) screws from the MAG board.



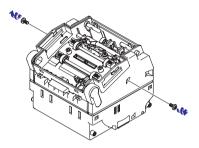
2. Remove the MAG board from the unit.



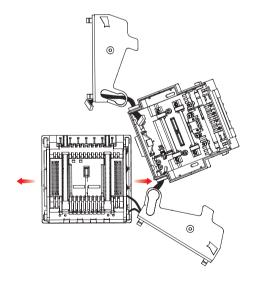
6-4. Replacement of Sensor Board

When replacing the Sensor Board, follow the instructions below.

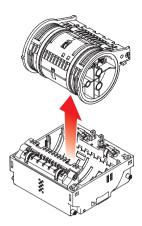
1. Take out two (2) screws from the both left and right side of the TAIKO unit.



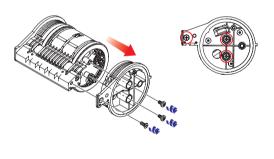
2. Remove a Upper Lid, Side Cover L and R. Unplug two (2) connectors of the both left and right side of the transport unit.

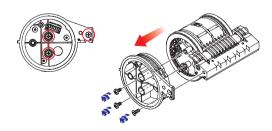


3. Remove the transport unit form the Lower Base.

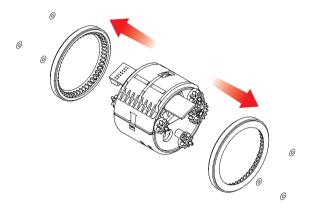


4. Take out three (3) screws each from the both side of the Transport Unit. Remove the Center Guide.

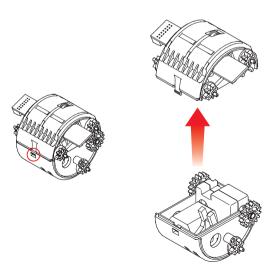




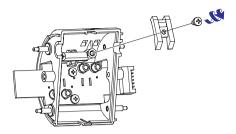
5. Remove the Feed Roller Assy of the both side of the Center Unit. Take out three (3) washers each from the both side of the Center Unit.



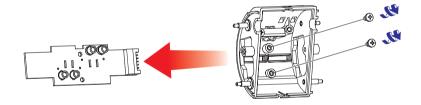
6. Insert the minus driver or equivalent into the encircled area as shown below. Lift up the Center Guide A and remove it from the Center Guide B.



7. Take out a (1) screw and a (1) prism from the Center Guide A.



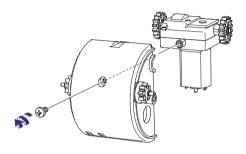
8. Take out two (2) screws on the Sensor Board. Slide aside the Sensor Board and remove it from the Center Guide A.



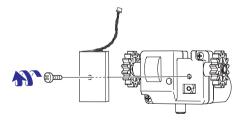
6-5. Replacement of Encoder Board/Motor Unit

When replacing the Encoder Board and Motor Unit, follow the instructions below.

1. Take out a (1) screw from the Center Guide B (Refer replacement procedure 6. of 6-4. Replacement of Sensor Board. Remove the motor Unit.



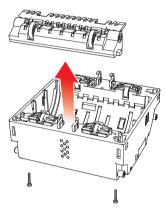
2. Take out a (1) screw and a (1) Encoder Board from the Motor Unit.



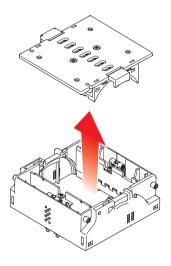
6-6. Replacement of Solenoid

When replacing the Entrance and Exit Solenoid, follow the instructions below.

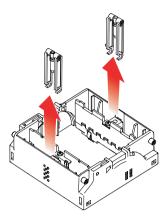
1. Take out two (2) screws from the Lower Guide and then remove the Guide Assy.



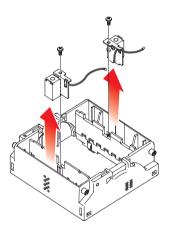
2. Put the Lower Guide upside down and open the Lower lid pressing the Lower Lid Open/Close Button.



3. Remove two (2) Guide Levers from the Lower Guide.



4. Take out two (2) screws and then remove a (1) Entrance and a (1) Exit Solenoid.



TAIKO Service Manual

Chapter

Exploded View/ Parts List

7-1. Entire Unit & Option

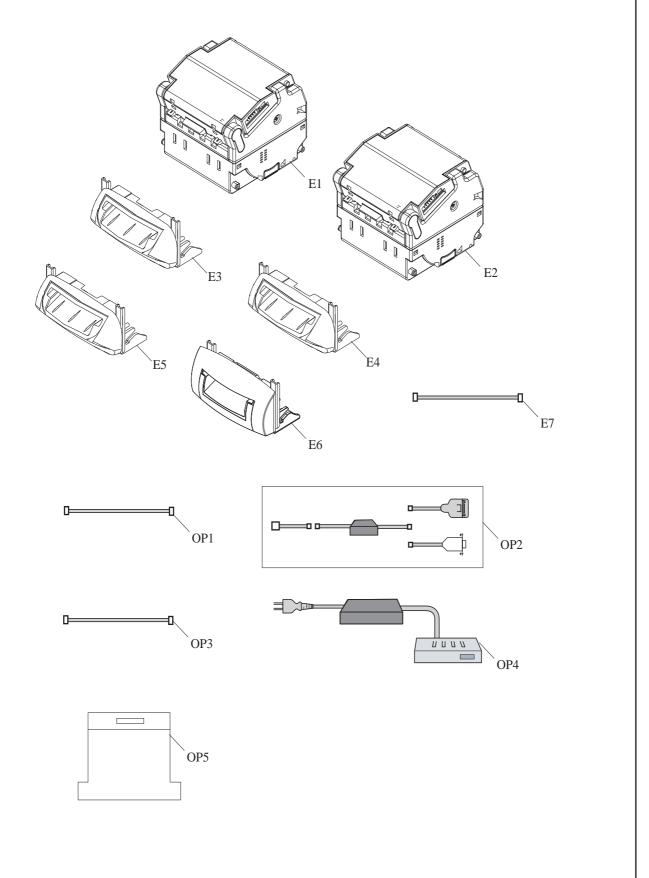
7-2. TAIKO (PUB-7/PUB-11) Unit

7-3. Bezel Unit

Issue: 05/2008 4045-SME-007H

7-1. Entire Unit & Option

7-1-1. Enter Unit & Option Exploded View



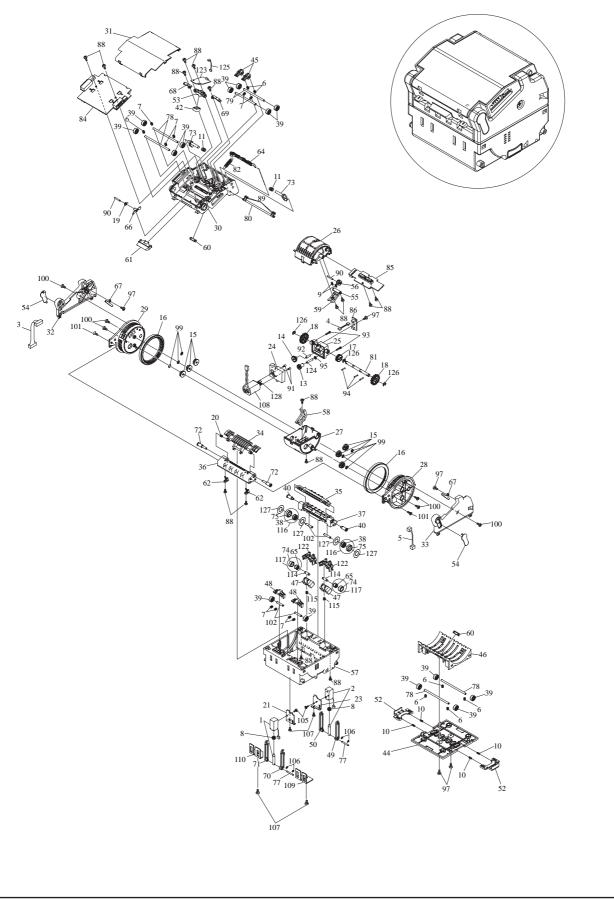
7-1-2. Enter Unit & Option Parts List

No.	EDP No.	Part No.	Description	Remark
E1	*1		PUB-7 Unit	
E2	*1		PUB-11 Unit	
E3	121872		PUB-7 Faceplate for EUR (68mm)	Type 1
E4	121873		PUB-7 Faceplate for GBR/SCO (76mm)	Type 2
E5	122095		PUB-7 Faceplate (71mm)	Type 3
E6	134164		PUB-11 Faceplate for US (67mm)	Type 5
E7	139571	3280-05-100	I/F Harness (ID-001)	Attached for only ID-001 Parallel Interface
OP1	127527	3280-05-54	TAIKO Harness A	For connecting PUB-7/11 unit with Power Supply Unit
OP2	116488	3280-03-11	TAIKO Harness B	For loading software from PC/Palm
OP3	124528	3280-05-52	Clone Harness	For cloning
OP4	116125	VM -30	JCM Power Supply Unit	
OP5	119581	KS-070	Calibration Paper	

^{*1} Please contact JCM headquater for EDP#.

7-2. TAIKO (PUB-7/PUB-11) Unit

7-2-1. TAIKO (PUB-7/PUB-11) Unit Exploded View



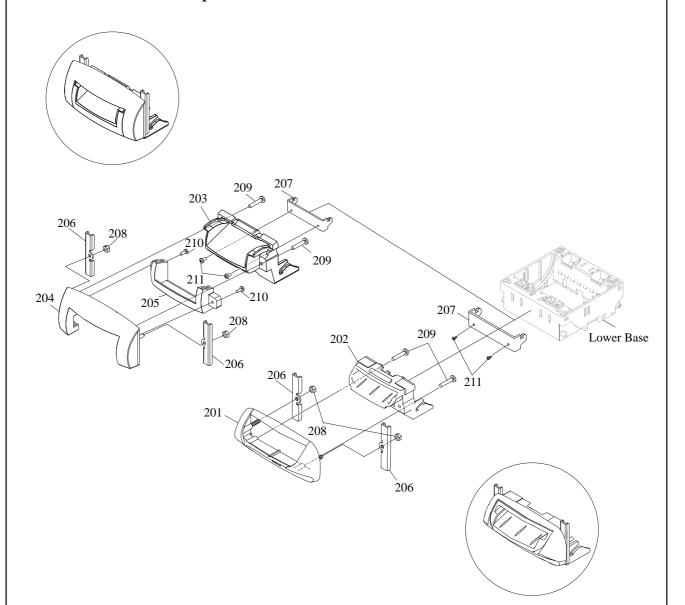
7-2-2. TAIKO (PUB-7/PUB-11) Unit Parts List

No.	EDP No.	Part No.	Description	Qty.	Remark
1	115543	TDS-04B-328	Enterance Solenoid	1	Tromark
2	115544	TDS-04B-327	Exit Solenoid	1	
3	114977	3280-05-01	Relay Harness (14P)	1	
4	114978	3280-05-02	PI Harness (3P)	1	
5	114980	3280-05-04	Relay Harness 2 (4P)	1	
6	115484	4045CS0101	Pinch Roller Spring (A)	8	
7	115485	4045CS0102	Pinch Roller Spring (B)	8	
8	115486	4045CS0103	Solenoid Spring	2	
9	115487	4045CS0104	M G Roller Spring	2	
10	115488	4045CS0105	Lower Guide Lock Spring	4	
11	115511	4045CS0106	Lock Spring	2	
13	110923	4045GE0103	Worm Gear	1	
14	110914	4045GE0102	Idol Gear	1	
15	110915	4045GE0106	Guide Gear	6	
16	127664	4045AS0101A	Feed Roller Assy	2	
17	110924	4045GE0104B	Worm Wheel	1	
18	110925	4045GE0105A	Drive Gear	2	
19	115509	4045KS0103A	Shutter Sensor Spring	1	
20	115510	4045KS0104	Shutter Spring Shutter Spring	1	
21	115491	4045PT0105	Solenoid Bracket (B)	1	
23	115493	4045PT0101A	Solenoid Bracket Solenoid Bracket	1	
24	110865	4045RE0101	G Box B	1	
25	110866	4045RE0102B	G Box A	1	
26	110867	4045RE0103A	Center Guide A	1	
27	110868	4045RE0104A	Center Guide B	1	
28	110869	4045RE0105B	Center Guide R	1	
29	110870	4045RE0106B	Center Guide L	1	
	110871	4045RE0107C	Upper Guide	1	ID-003/M DB/Pulse/ccTalk
30	139230	4045RE0167	Upper Guide	1	Parallel
31	130165	4045RE0108B	Upper Guide Cover	1	
32	110873	4045RE0109B	Side Cover L	1	
33	110874	4045RE0110B	Side Cover R	1	
34	110875	4045RE0126A	Guide Lever A	1	
35	110876	4045RE0127A	Guide Lever B	1	
36	110877	4045RE0128D	Center Guide C	1	
37	110878	4045RE0129B	Rear Guide	1	
38	110879	4045RE0130	Drive Pulley	2	127519:4045AS0104A DRIVE PULLEY ASSY
39	110880	4045RE0131	Pinch Roller	14	
40	110881	4045RE0132	Lever Bush (A)	2	
42	110885	4045RE0147	Dummy Head	1	PUB-7 Only
44	110889	4045RE0113	Lower Guide Cover	1	
45	110890	4045RE0118A	Spring Guide	2	
46	110892	4045RE0121A	Lower Guide	1	
47	127512	4045RE0162	Idle Slider	2	
48	110894	4045RE0123	Clamp B	2	
49	130162	4045RE0124A	Lever Link L	1	
50	130163	4045RE0125A	Lever Link R	1	
52	110898	4045RE0137	Lower Guide Lock	2	
53	131655	4045RE0139A	MG Head Holder	1	
54	110900	4045RE0140	Harness Cover	2	
55	110903	4045RE0143	Spring Stopper	1	
56	110904	4045RE0144	MG Head Roller	1	
57	110906	4045RE0146D	Lower Base	1	
	110907	4045RE0114	Prism (A)	1	
58					
58	110908	4045RE0115	Prism (B)	1	

NT.	EDDM	D (3)		Lou	
No.	EDP No.	Part No.	Description	Qty.	Remarks
61	110910	4045RE0120A	Right Guide	1	
62	110911	4045RE0138	Prism (D)	2	
64	130164	4045RE0117B	Sensor Lever	1	
65	115494	4045RE0150A	Drive Pulley (F)	2	127518:4045AS0103A DRIVE PULLEY(F) ASSY
66	115495	4045RE0151A	Shutter Sensor Lever	1	
67	115496	4045RE0152	EXIT Prism (A)	2	
68	115497	4045RE0153	EXIT Prism (B) L	1	
69	115498	4045RE0154	EXIT Prism (B) R	1	
70	115499	4045RE0155	Guide Lever Link R	1	
71	115500	4045RE0156	Guide Lever Link L	1	
72	115501	4045RE0157	Lever Bush (B)	2	
73	097342	4023RE0112B	Lock Lever	2	
					127518:4045AS0103A
74	115502	4045RU0103B	Reject Roller (F)	2	DRIVE PULLEY(F) ASSY 127519:4045AS0104A
75	115503	4045RU0102B	Reject Roller	2	DRIVE PULLEY ASSY
77	115507	4045SH0103	Solenoid Shaft	2	
78	115490	4045SH0102A	Pinch Roller Shaft	4	
79	115505	4045SH0105A	Pinch Roller Shaft (B)	2	
80	115956	4045SH0106	Sensor Lever Shaft	1	
81	115489	4045SH010A	Drive Gear Shaft	1	
82	115508	4045TS0101B	Sensor Lever Spring	1	
84	137778	4045-3280-06-11-01A	PUB7 CPU Board	1	ID-003/MDB/Pulse/ccTalk
04	136375	4045-3280-06-21-01	PUB7 CPU Board	1	Parallel
85	137777	4045-3280-06-02B-01A	PUB7 Sensor Board	1	
86	114831	4045-3280-06-03	Interrupter Board	1	
0.0	002040		•	14	PUB-7
88	082040		2.6x6 P Tight Pan Head	16	PUB-11
89	003705		E-Ring ϕ^2	4	
90	064863		Parallel Pin 62x14	2	
91	006022		Flat Bis M2x4	2	
92	072361		Parallel Pin 63x10	1	
93	062887		P Tight Pan Head M2x10	2	
94	104019		Parallel Pin 61.6x8	3	
95	006026		Flat Washer 3x6x0.5	1	
97	057260		P Tight Bind M 2.6x5	5	
99	116015		Polley Slider ϕ 2x6.5x0.8	6	
100	107111		P Tight Bind M3.10	6	
101	092229		P Tight Flat Bis M3x8	2	
102	109658		Parallel Pin ϕ 3 _X 16	4	
105	006244		Pan Head Screw M2x3	4	
106	003704		E-Ring 61.5	4	
107	116909		P Tight Pan Head M2.6x10	4	
108	115545		PUB-7 Trans Motor Assy	1	
109	127557	4045PT0106	Face Installation Plate R	1	
110	127555	4045PT0107	Face Installation PlateL	1	
114	127520	4045SH0107	Idol Shaft	2	
115	127520	4045CS0107	Idol Roller Spring	2	
116	127511	4045AS0104A	Drive Pulley ASSY	2	With Item 38 & 75
117	127518	4045AS0104A 4045AS0103A	Drive Pulley (F) ASSY	2	With Item 55 & 74
122	127513	4045RE0163	CLAMP (A-N)	2	
123	130880	4045-3280-06-05A-01	MAG Sensor Board	1	PUB-11 Only
124	003591		Parallel Pin ϕ 3X15	1	
125	131072	3280-05-05	MAG Sensor Relay Harness	1	PUB-11 Only
126	003707		E-Ring ϕ 3	3	
127	120291		5.2x10x0.4 Poly Slider	4	
128	110913	4045GE0101	Pinion Gear	1	
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7-3. Bezel Unit

7-3-1. Bezel Unit Exploded View



7-3-2. Bezel Unit Parts List

No.	EDP No.	Part No.	Description	Qty.	Remarks
201	110884	4045RE0135A	Faceplate	1	
	110897	4045RE0136B	PUB-7 Faceplate Guide for EUR (68mm)	1	Type 1
202	118069	4045RE0158B	PUB-7 Faceplate Guide for GBR/SCO (76mm)	1	Type 2
	121519	4045RE0161B	PUB-7 Faceplate Guide (71mm)	1	Type 3
203	131111	4045RE0164	PUB-11 US Faceplate Guide (67mm)	1	Type 5
204	131108	4045RE0165	US Faceplate A (67mm)	1	
205	131109	4045RE0166	US Faceplate B (37mm)	1	
206	115492	4045PT0103	Faceplate Bracket	2	
207	127556	4045PT0108A	Face Fix Hook	1	
208	116908		Hexagonal Nut M4	2	
209	116910		P Tight Bind M4x10	2	
210	080908		3x6 Bind P Tight Screw	2	
211	006037		3x12 Pan Head W Sems Screw	2	