

World Bill Acceptor

WBA - \* \* - SS

CHAPTER 2

Operation Manual

Class 943 - 11 - 02 - 00  
Date 96 - 06



**JAPAN CASH MACHINE CO., LTD.**

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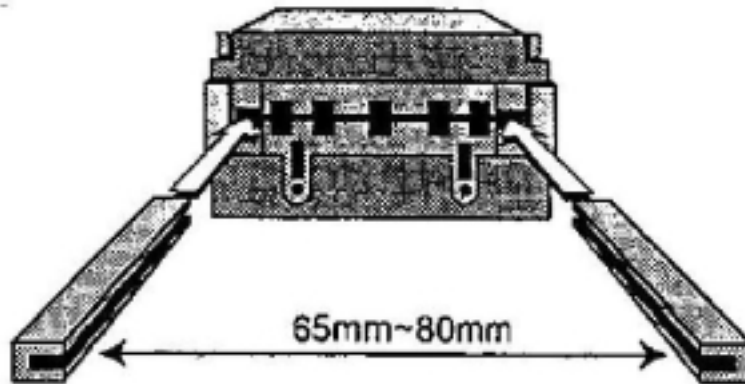


# 1 Features

The WBA-\*\*-SS has the following features.

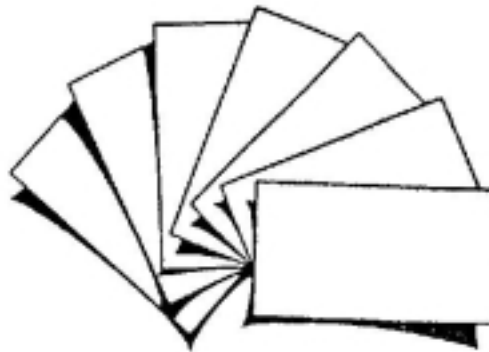
- Capacity to read a wide range of bill sizes

Four different acceptor head slot width adjustment guides are available for the WBA-\*\*-SS. By having these width adjustment guides switched, the machine can read bills that are 65mm to 80mm wide. The WBA-\*\*-SS can read bills that are 125mm to 170mm long.



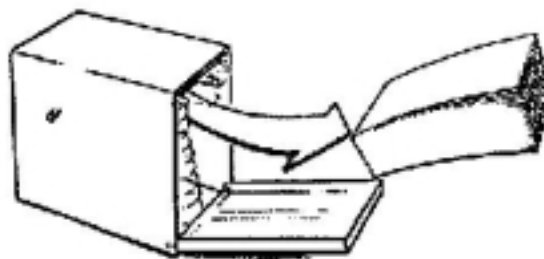
- DIP switch settings for accept/reject of bills

DIP switch settings can be used to set accepting or rejecting modes individually for six types of bills. Of course, acceptance of all six types of bills can also be set.

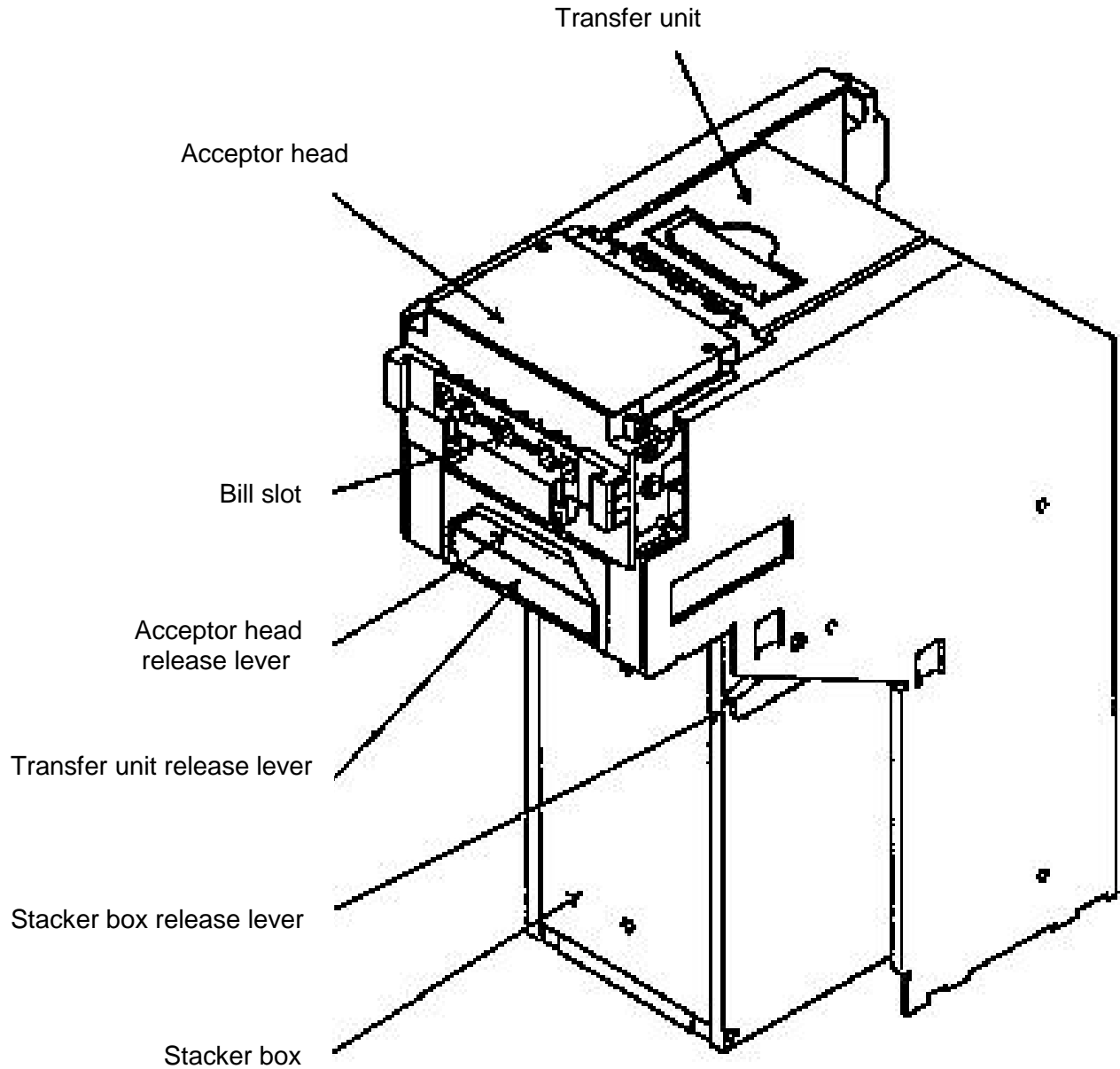


- Easy bill collection

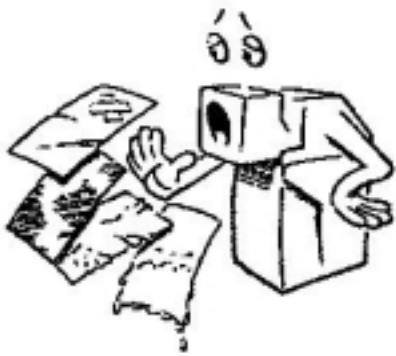
The slacker box itself can be detached from the main unit, which makes it easy to withdraw deposited bills. The machine can be equipped with a lock for higher security. Each slacker box can store up to 500 bills.



## 2 Component Names



### 3 Precautions



1 Torn, wrinkled, or wet bills may jam the acceptor.

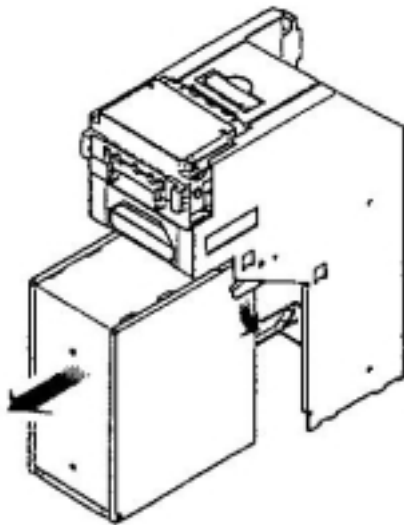


2 The acceptor uses sophisticated electronic parts. Make sure the acceptor does NOT get wet.

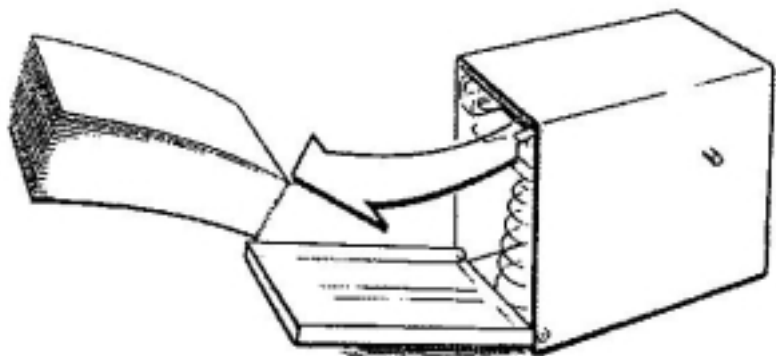


3 Keep the acceptor away from dust. Dust may deteriorate the accuracy of the bill acceptor.

### 4 Collecting Bills



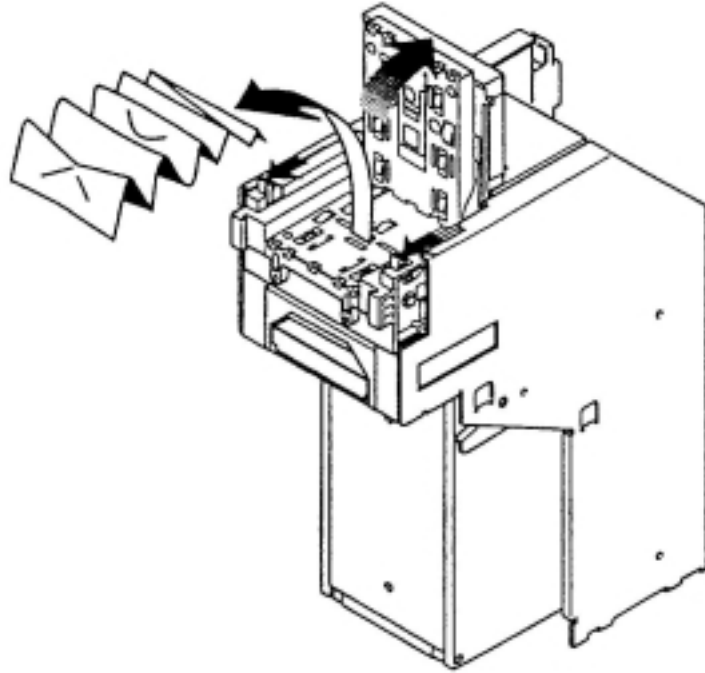
1 Lift the release lever and pull the stacker box out towards you.



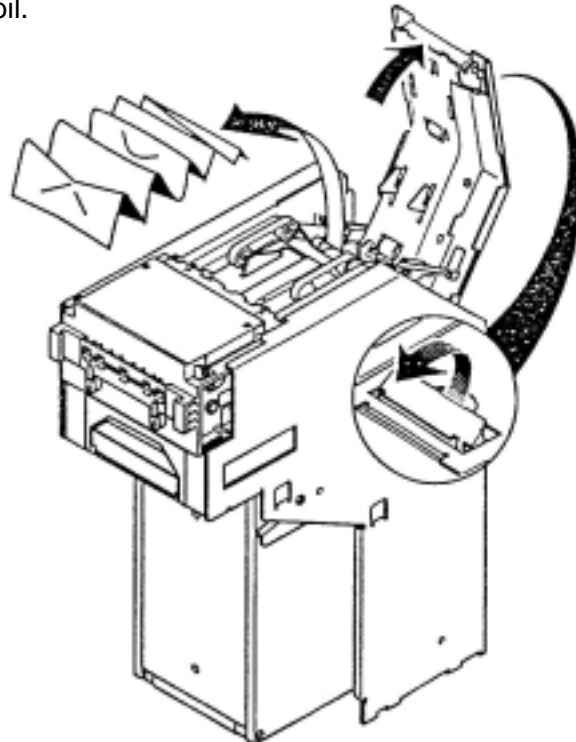
2 Open the stacker box's cover and remove the bank bills inside.

## 5 When a Bill is Jammed in the Acceptor

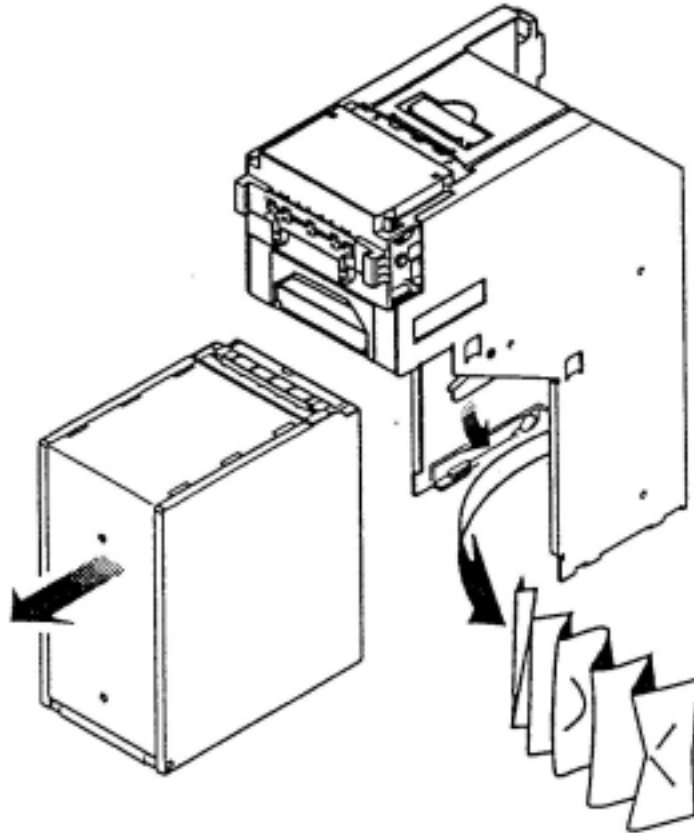
1 Pull the notches on both sides of the acceptor toward you to open the acceptor head.  
Remove the jammed bill.



2 If the jammed bill cannot be removed just by opening the acceptor, pull the transfer unit open/close lever to open the top cover and remove the jammed bill.

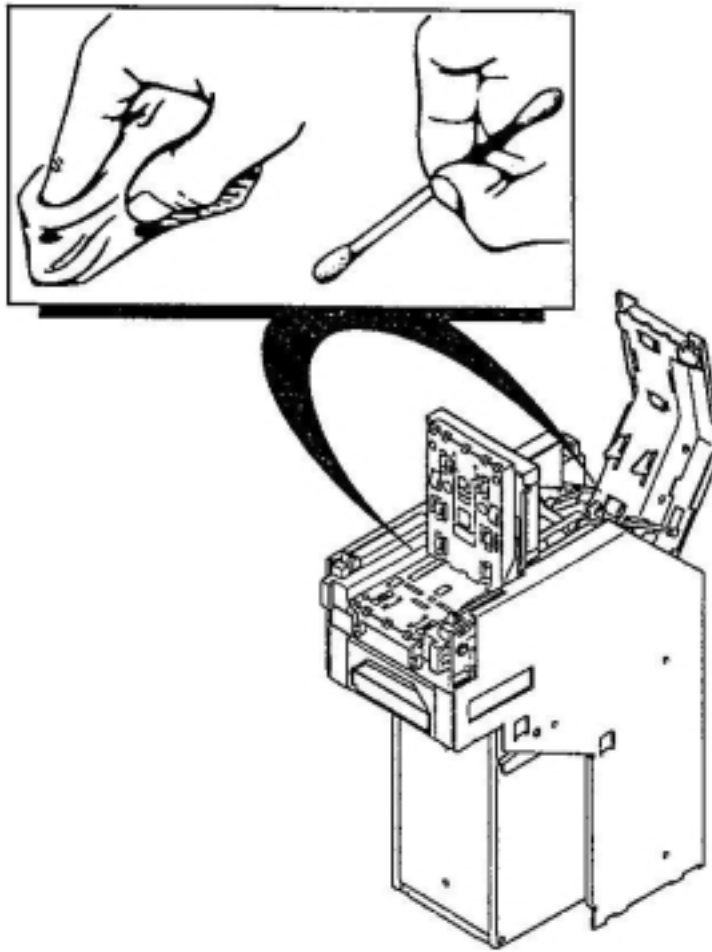


3 When a bill is jammed near the inlet of the stacker box, pull the release lever of the stacker box to pull out the stacker box and remove the jammed bill.



## 6 Cleaning

If the reader with a sensor in it is dirty, it may cause jamming or deteriorate the accuracy of the bill acceptor.



1 Use soft cloth or swab to clean the reader.  
If necessary, use an ordinary head cleaner.

\* Do not use organic solvent like thinner.

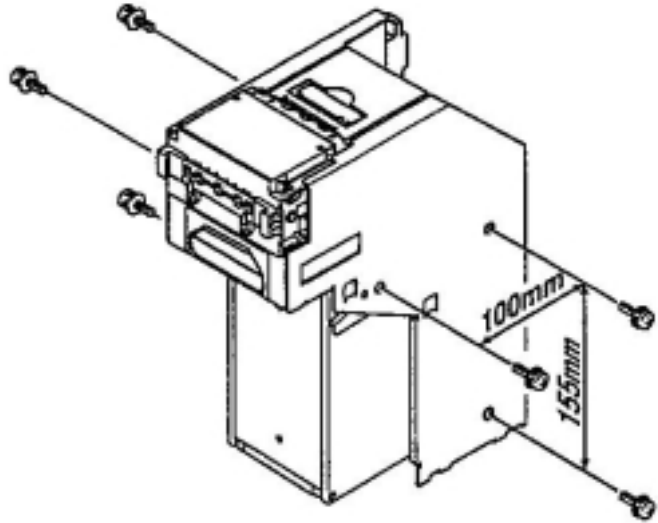


# 7 Installation

## 1 . Installation

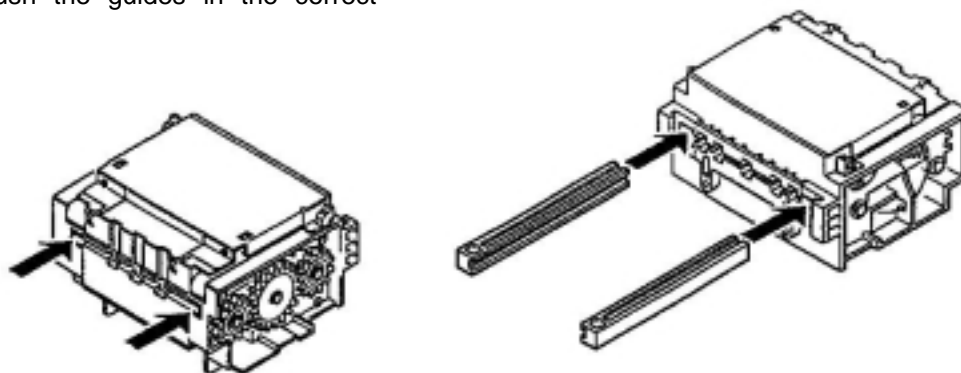
There are three mounting holes each on both sides (a total of six mounting holes).

Note: The mounting holes are of symmetrical dimensions.



## 2 . Switching the acceptor head slot width adjustment guides

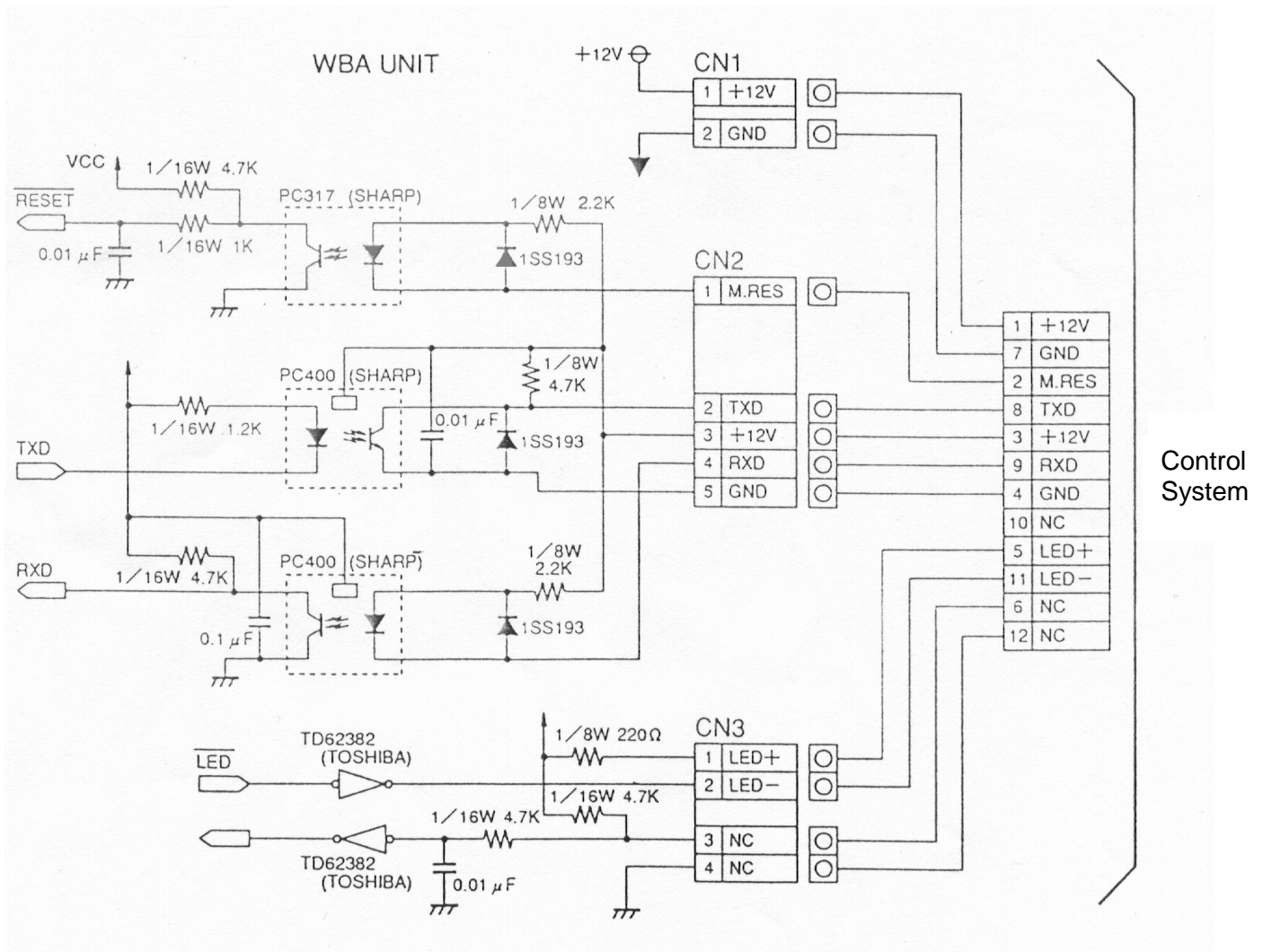
To remove the acceptor head slot width adjustment guides, first remove the acceptor head from the main unit and then push out the width adjustment guides from the back of the acceptor head. To install the acceptor head slot width adjustment guides, push the guides into the acceptor head slot until you hear a click. Be sure to push the guides in the correct direction.



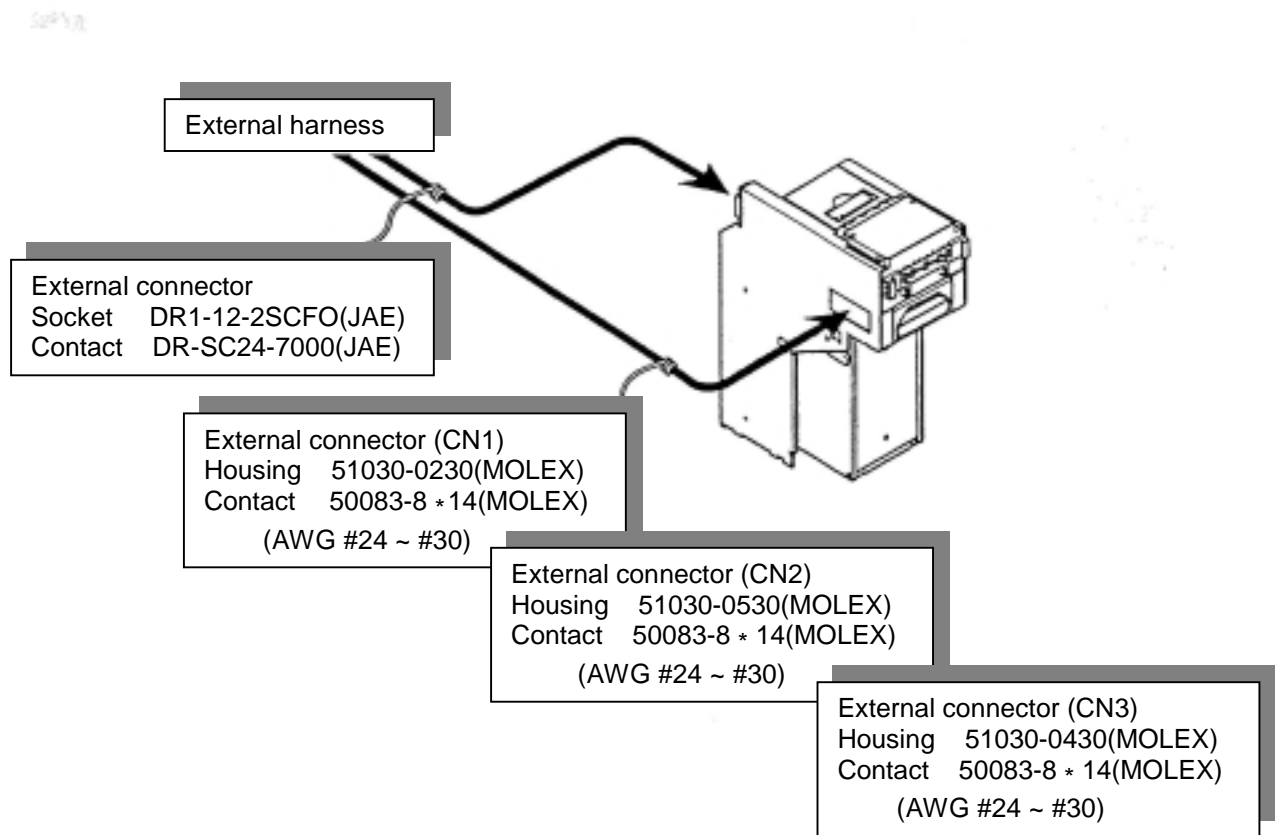
## 8 Outline of Interfaces

The WBA -\*\*- SS uses an ID-003 interface. The ID-003 interface is a bi-directional serial interface. The acceptor status, its operation control, and the settings of each function can be confirmed by issuing a polling command ("Status Request") and other commands ("Operation Command" and "Setting Command") from the controller.

## 9 Input/Output Circuits

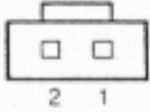


# 10 Cabling



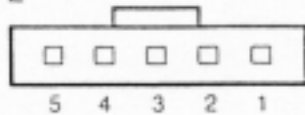
# 11 Pin Assignment

CN 1



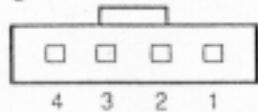
Pin No.	Signal Name	Function
1	+12V	DC +12V power supply
2	GND	DC 0V power supply

CN 2



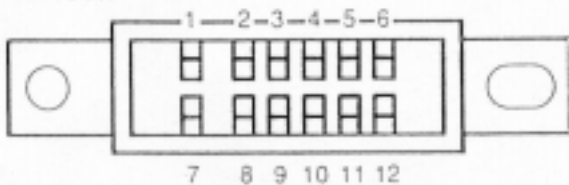
Pin No.	Signal Name	Function
1	M. RES	Acceptor reset signal line
2	TXD	Data transmission line
3	+12V	Power supply for interface (DC +12V)
4	RXD	Data reception line
5	GND	Power supply for interface (DC 0V)

CN 3



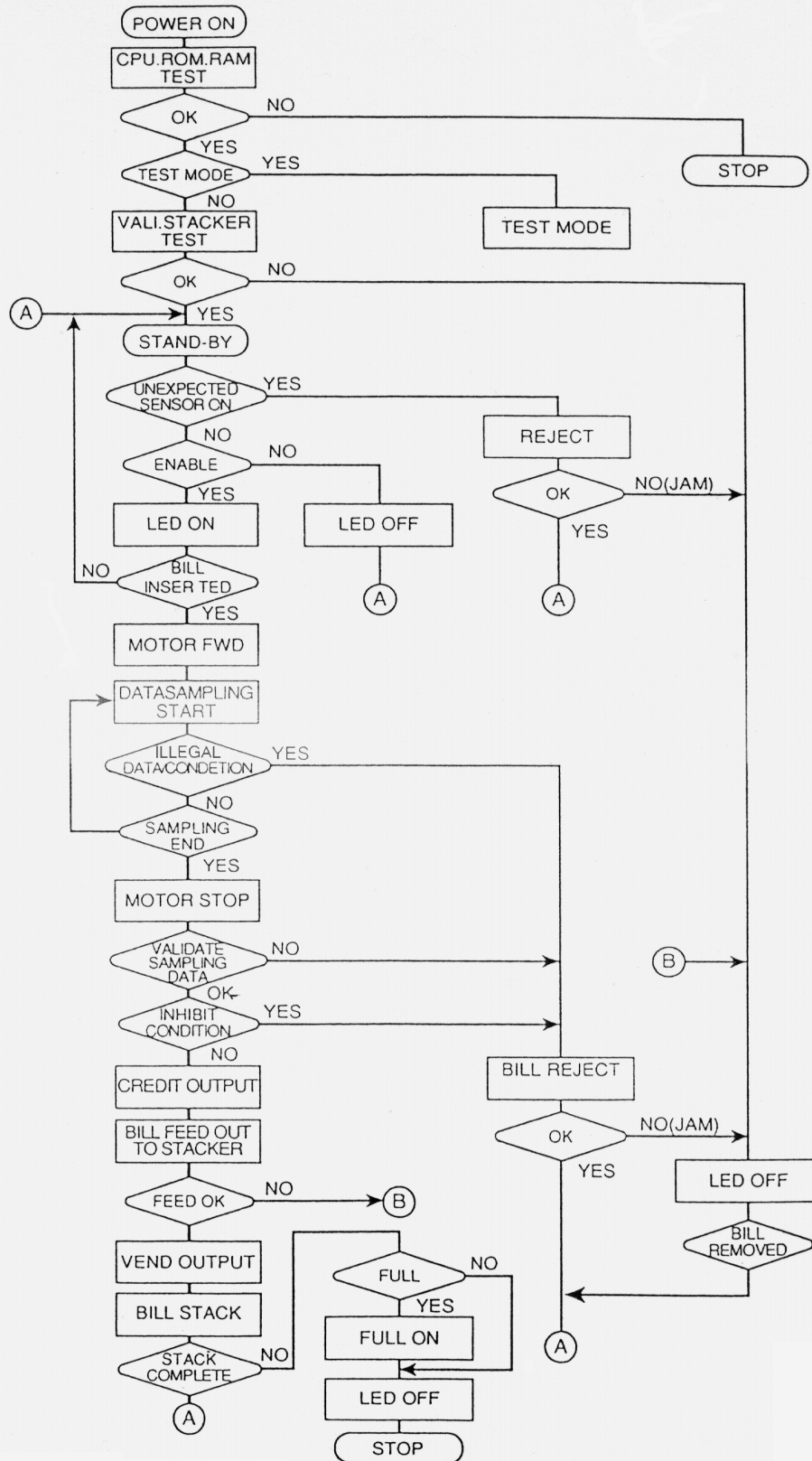
Pin No.	Signal Name	Function
1	LED +	LED drive line (anode)
2	LED -	LED drive line (cathode)
3	NC	Do not change this switch setting
4	NC	Do not change this switch setting

Connector



Pin No.	Signal Name	Function
1	+12V	DC + power supply
7	GND	DC 0V power supply
2	M. RES	Acceptor reset signal line
8	TXD	Data transmission line
3	+12V	Power supply for interface (DC +12V)
9	RXD	Data reception line
4	GND	Power supply for interface (DC 0V)
10	NC	Do not change this switch setting
5	LED+	LED drive line (anode)
11	LED-	LED drive line (cathode)
6	NC	Do not change this switch setting
12	NC	Do not change this switch setting

# 13 Operating Flowchart



## 14 General Specifications

Types of bills that can be accepted:	See the specifications of each unit.
Direction of bill insertion:	See the specifications of each unit.
Acceptance rate:	90% or more (including the 1st return and 2nd acceptance. The following bills, however, are excluded.) <ol style="list-style-type: none"><li>1. Dirty, worn, wet, torn, or extremely wrinkled bills.</li><li>2. A bill with a folded corner or edge.</li><li>3. A bill with a noticeable cutting size difference or printing displacement.</li></ol>
Identification time:	Within 2 seconds (Period until the output of the credit signal.)
Interface:	Serial interface (Photocoupler isolation)
Stacker box:	<ol style="list-style-type: none"><li>1. Security box</li><li>2. Number of bills to be stored --- Average 500 bills (Coupons)</li></ol> Note: The lock should be procured by a user. (The catch is supplied with the unit.)
Escrowing:	Escrowing for 1 bill
Display:	<ol style="list-style-type: none"><li>1. Operation status display of the acceptor (Ready lamp light signal output)</li><li>2. One LED can be lit.</li></ol>
Power requirements:	DC +12V (+_5%), capacity 2.5A or more
Power consumption:	<ol style="list-style-type: none"><li>1. Standby status --- 2.8VA</li><li>2. Operation status --- 14VA (Max. 24 VA)</li></ol>
Operating environment:	<ol style="list-style-type: none"><li>1. Operating temperature --- 0°C to 45°C</li><li>2. Storage temperature --- -20°C to 60°C</li><li>3. Humidity --- 30% to 80%</li><li>4. Damaging light --- Do not install the machine in a place where it will be exposed to direct sunlight.</li><li>5. Installation site --- Indoors</li></ol>
Outside dimensions:	See the attached drawing.
Weight:	<ol style="list-style-type: none"><li>1. Main unit (with cassette box) --- Approx. 4.8 Kg</li><li>2. Cassette box --- Approx. 1.5 Kg</li></ol>
Installation:	Horizontal installation

# 15 Dimensions

