



# Optipay<sup>™</sup> RC

# RC-10 Bill Recycler

This document contains information for installing and configuring the optional Optipay  $^{\text{TM}}$  RC-10 Bill Recycler. The RC-10 is designed for use with a DBV-301 and an A-66 Coin Changer combination set.



NOTE: The RC-10 Recycler <u>can only be used with</u> the DBV-301 Bill Validator and an A-66 Coin Changer!

## The RC-10 contains the following features:

- A ten (10) note modular recycler
- Last bill in; first bill out operation
- Returns bill payments to the customer
- · LED field diagnostics
- · Provides auto load features
- Recycles \$1, \$5, or \$10 notes (bills)

## PRIMARY OPTIPAY™ RC BILL RECYCLER COMPONENTS

Figure 1 illustrates the primary component parts of an RC-10 Recycler.

- Diagnostic Green LED
- Push button #1 (Dispense note(s) through the DBV-301 Bezel)
   Push button #2 (Dispense note(s) to
- Cash Box)
- 4. Push button #3 (Auto fill mode & reset)
- A-66 Coin Changer communication connector receptacle
- 6. DBV-301 communication cable connector
- Access cover locking lever (Rotate to the right to release and pull off the cover)
- 8. Rear access door

The Green LED provides the following two illumination conditions:

- 1. LED OFF: Connection Failure
- 2. LED ON: Normal operation

The Green LED also flashes to provide 15 different types of error codes. Definitions of these codes are listed in Table 1 on page 4 of this guide.

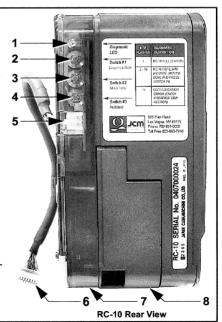


Figure 1 Primary RC-10 Component Parts

## **INSTALLATION & REMOVAL**

To install or remove the RC-10 follow the steps outlined in Figure 2.

Remove the DBV-301 Cash Box



NOTE: The Cash Box MUST be removed in order to proceed!

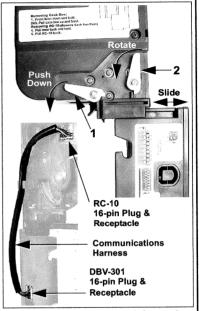
- 2. Lever #1 is used to remove the Cash Box following installation.
  - a) Press down on the lever to release the Cash Box and pull the Cash Box up and
- 3 Lever #2 is used to install and remove the RC-10.
  - a) To install/remove the RC-10 press/rotate the lever down to the left, holding it down while sliding the unit in or out.



NOTE: During installation or removal, always unplug the communications connector from the side of the DBV-301 and RC-10 then reconnect it when finished.

- 4. Replace the Cash Box.
- Connect the 4-pin A-66 Coin Changer communications harness to the rear of the RC-10 (See Figure 1).
- Connect the loose end 16-pin female connector RC-10 Communications Cable to the mating 16-pin male receptacle on the DBV-301. Listen for a click when pressing the connector into the receptacle. Gently tug on the connector to ensure it is locked firmly into place.

To remove a connector from its receptacle, gently squeeze the sides of the plug and pull the plug loose from the receptacle.



RC-10 Right Side Bottom View & Connection

Warning! DO NOT pull on the wires to remove the 16-pin plug

Figure 2 RC-10 Right Side Installation Component Functions

# **BILL LOADING INSTRUCTIONS**

To load the RC-10 Recycler, perform the following steps:

- 1. Press Button #3. LEDs on the front of the DBV-301 will begin flashing rapidly if the unit is not full ofbills (banknotes).
- Insert bills.

When the DBV-301 LED's stop flashing the RC-10 is full, the Green LED on the RC-10 will flash single flashes and it will not accept any more bills.



NOTE: Not all bills will be accepted by the Recycler. Bills in poor condition (i.e., worn, torn, defaced, etc.) may be sent to the Cash Box.



NOTE: A machine credit will occur if a bill is inserted after the DBV-301 Bezel LEDs stop flashing. The RC-10 LED status should be checked after an auto fill mode has occurred. If the LED is ON (lit) solid, the RC-10 requires bills (Repeat steps 1-3). If the LED is constantly flashing one flash at a time, the RC-10 is full.

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# **DIP SWITCH SETTINGS & PUSH BUTTON FUNCTIONS**

To use the functions provided by the four RC-10 DIP Switches, refer to the JCM Web-Site under the "Customer Service pull-down menu".

The access cover release lever function and the external communications cable to the DBV-301 are also indicated in Figure 3.

- 1. Four position DIP Switch Block.
- 2. Access cover locking lever (Rotate the release lever counter clockwise and raise the access door).
- 3. RC-10 to DBV-301 Communication Cable.

To use the functions provided by the four RC-10 DIP Switches, refer to the software specifications listed for the specific DBV-301 software presently being used. They can be found at the JCM Web-Site at www.jcm-american.com under the Customer Service/Technical Information/Software Information pull-down menu.



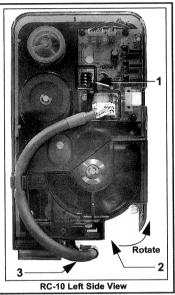


Figure 3 RC-10 Left Side Installation Component Functions

# **PUSH BUTTON FUNCTIONS**

The three push buttons shown in Figure 4 provide the following functions:

- 1. Push button #1 (Top) when pressed will dispense a bill through the DBV-301.
- 2. Push button #2 (Middle) when pressed will send a bill to the Cash Box. If it is held down it will keep sending bills to the Cash Box until released.
- 3. Push Button #3 (Bottom) when pressed will begin a fill mode through the DBV-301 Bill Acceptor. This button is also used to reset the unit.

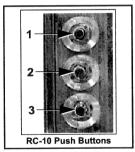


Figure 4 Push Buttons

## **ERROR CODES & CONDITIONS**

Table 1 on page 4 lists the LED Error Code flash definitions displayed by the RC-10 front panel LED indicator.



NOTE: Press Button #3 to reset unit prior to trouble shooting.

#### Table 1 Green LED Error Code Flash Definitions

Flashes	Error Indicated	Flashes	Error Indicated
0	Standby mode (Bill is ready to be accepted)	8	Recycler Sensor Failure (Empty)
1	Recycler Full	9	Recycler Sensor Failure (Full)
2	Recycler Jam (During initialization)	10	Recycler Jam (Pusher mechanism zone)
3	Recycler Jam (During bill dispensing)	11	Reserved
4	Recycler Jam (During bill loading)	12	Reserved
5	Recycler Motor Speed Error	13	Reserved
6	Recycler Motor Lock	14	Reserved
7	Recycler Sensor Failure (Entrance)	15	Communication Failure to Changer

#### **OPERATIONAL CHECK**

Once the unit is installed, perform the following steps to ensure the RC-10 is in its operational mode.

- 1. When the RC-10 has been filled with bills, press Button #1 to dispense a note through the DBV-301 then,
- 2. Press Button #2 to send the bill(s) to the Cash Box.
  - NOTE: A US \$5 bill can be inserted and a product selection made to cause the RC-10 to dispense bills as change.
- 3. Press the + Button on the A-66 Coin Changer twice to reset all counters.

If additional information for interconnecting an A-66 to a DBV-301 Optipay<sup>TM</sup> RC-10 combination unit is required, refer to the Optipay<sup>TM</sup> System Interconnection Guide (Part No. 960-000114) to ensure a proper installation.

If further detailed instruction is necessary, refer to the primary RC-10 Service Manual (Part No. 960-000104).

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