

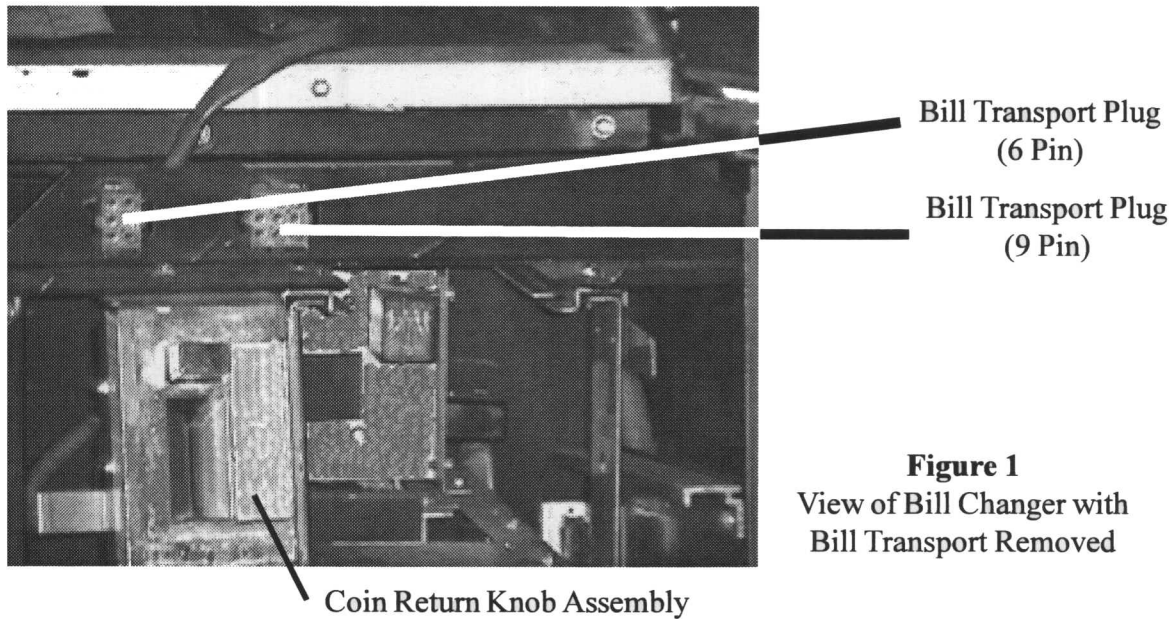
# Instructions for 5240A Conversion Kit for Rowe BC 20/25 to a Mars Validator

**READ INSTRUCTIONS COMPLETELY BEFORE BEGINNING INSTALLATION**  
**TURN OFF POWER AND UNPLUG THE BILL CHANGER**  
**BEFORE BEGINNING INSTALLATION**

**REQUIRES MARS AE2611U7E Validator with 700 Stacker (Optional 300, 500 Stacker)**

## **Step 1 Remove Current Bill Transport and Stacker**

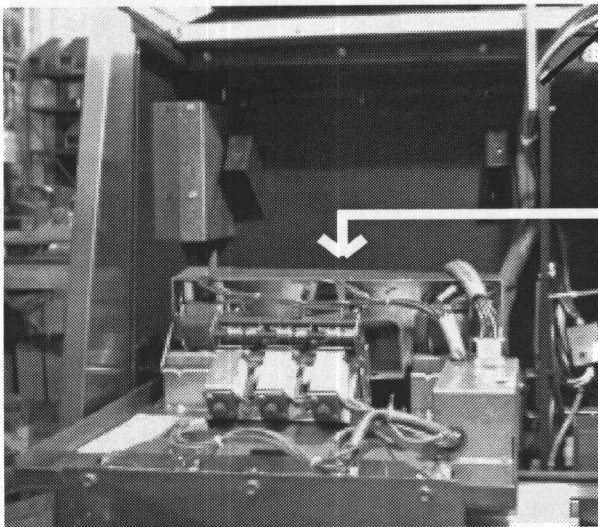
- A. Unplug both transport harnesses (9 pin & 6 pin) to machine. (See Figure 1)
- B. Pull out the current bill transport completely by sliding out along its track and unlatching the catch. (see figure 1).
- C. Unplug stacker 9 pin square harness connection. Remove the stacker housing/bracket by unscrewing the 2 screws holding it in place.



**Step 2 Install “Y” Harness (5203)**

- A. Remove the hoppers by manually lifting them out of the bill changer unit.
- B. Remove dispenser mounting screws located at the top of the dispenser assembly.
- C. Tilt the dispenser forward (Figures 2 & 3) and reach behind to unplug the **J204 Plug** .
- D. Locate the 5203 “Y” Harness included with the kit and plug the appropriate ends into the J204 plug (figure 3) and the machine. Run the harness along the back of the unit to the other side of the divider wall. The other end will plug into the matching plug of the 5252 Main Box Assembly to be installed in Step 4.
- E. Put the dispenser back in place. Leave the hoppers out for Step 6.

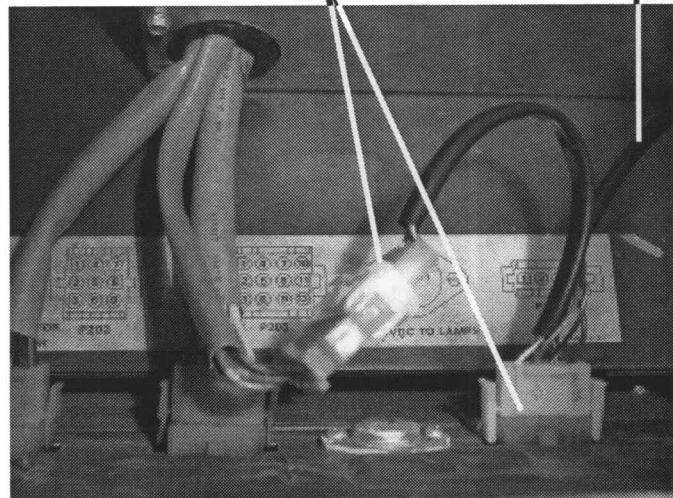
**Figure 2**  
View of Dispenser tilted forward



Divider Wall

J204 Plug located  
on bottom of  
dispenser assy.

**Figure 3**  
View from behind  
Dispenser looking  
down at J204 Plug



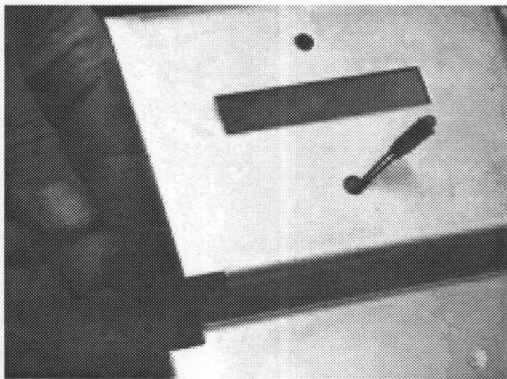
J204 Plug with 5206  
harness attached

5206 Harness going  
to 5252 Main Box Assy.

### Step 3 Install 5184 Slider Bracket and Validator

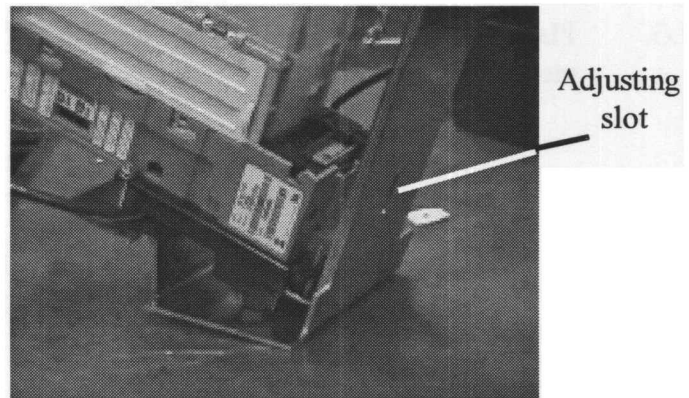
- A. Set the following switches of the Mars validator to the ON position: 1, 2, 3 and 8.
- B. Unplug the indicator light attached to the 5252 Main Box Assembly and insert into the hole located **below** the acceptor slot for the bill acceptor (for the purposes of this kit, you may ignore the hole above the bill acceptor slot) See Figure 4. Use the holder clip included to keep the light in place.
- C. Mount the Mars validator upside down to the slider bracket included with the kit. This bracket simply slides on the tracks where the stacker was located before being removed in Step 1B. Make sure that the face of the validator is centered in the hole of the bracket. See Figure 5.
- D. Attach the two adhesive backed clips 4" to 6" apart to the underside of the slider bracket. They will be used to direct wires away from the validator later in the installation (figure 15, page 8).
- E. Affix label to the front of the of the slider bracket. See Figure 6.
- F. In most cases, the left side of the slider bracket(Figure 6) will act as a stop for the bracket. If necessary, a carriage bolt, lockwasher and nut have been included to use the adjusting slot located on top of the bracket.
- G. Put the slider bracket/validator assembly to the side.

**Figure 4**

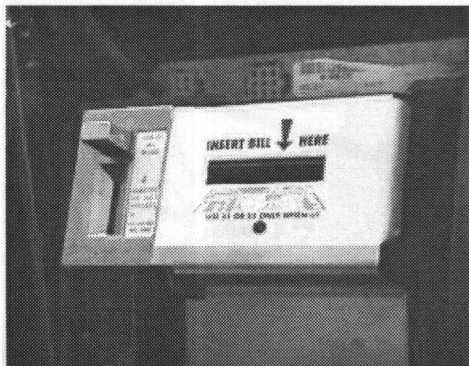


Inserting indicator light into the slider bracket

**Figure 5**



Mounting validator to slider bracket



**Figure 6**  
View of Slider Bracket in place with label.

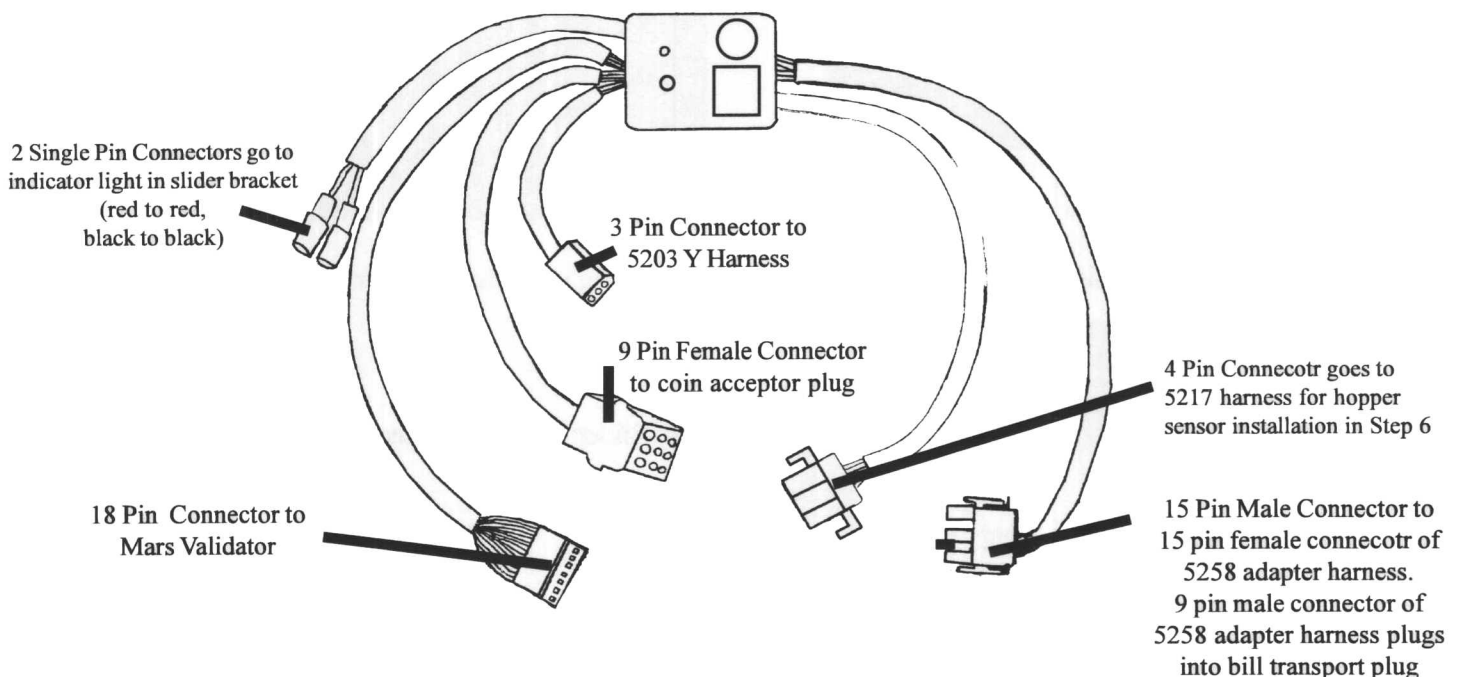
#### Step 4 Install the Power Harness (5186)

- A. Plug the 8 pin connector from the 5186 power harness included with the kit into the stacker plug. The other end will plug into the Mars Validator in Step 5F.

#### Step 5 Main Box Assembly (5252) Installation-Figure 7

- A. Unplug the 9 pin harness from the coin mechanism and plug the **female** 9 pin connector from the main box assembly into the appropriate 9 pin male connector.
- B. Run the wire with the **male** 15 pin connector from the main box assembly through a hole in the side divider wall. Attach the 5258 adapter harness to the 15 pin connector and then plug the 9 pin male connector of the 5258 harness into the bill transport plug (see Figure 1, page 1). **WARNING: DO NOT PLUG INTO THE STACKER PLUG. IT IS ALSO A 9 PIN PLUG.**
- C. Plug the 18 pin connector from the main box assembly into the side of the Mars validator.
- D. Plug the 3 pin connector into the matching end of the 5203 "Y" Harness.
- E. Plug the two wires single pin wires from the indicator light into the matching red and black single pin wires from the 5220 Main Box Assembly (red to red - black to black).
- F. Plug the open end of the 5186 Harness from Step 4B into the Mars validator. Run the wires from the validator brack through the grey clips installed on the underside of the slider bracket.
- G. Place the Main Box Assembly on the bottom of the bill changer located below the validator. A piece of velcro has been included with the kit to help mount the box.

**Figure 7 5252 Main Box and Harness Assembly**

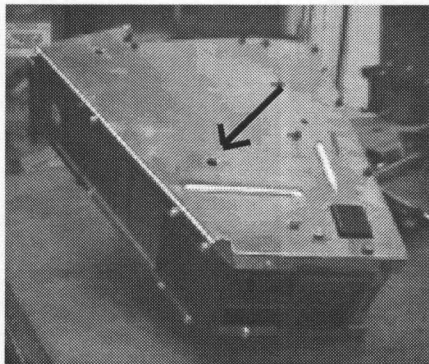




## Step 6 Hopper Sensor Installation

- A. Take one of the empty hoppers and lay down flat on its left side so that the right side of the hopper is facing up. See Figure 8.
- B. Locate one of the adhesive backed squares included with the kit. Peel the back off and place over the hole located near the bottom of the hopper side so that the hole in the square is centered over the hole of the hopper side. Press down firmly so that the square sticks to side of hopper. See Figure 9.

**Figure 8**



The arrow is pointing to the hole where the hopper sensor will be attached.

**Figure 9**

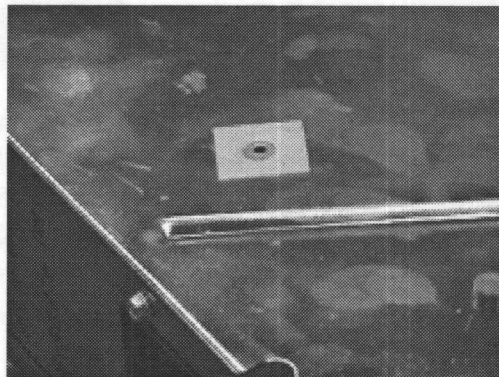
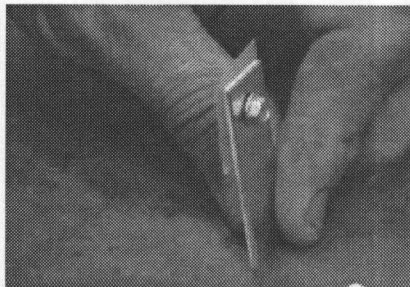


Photo shows placement of adhesive backed square with its hole centered over the hole located on the side of the hopper.

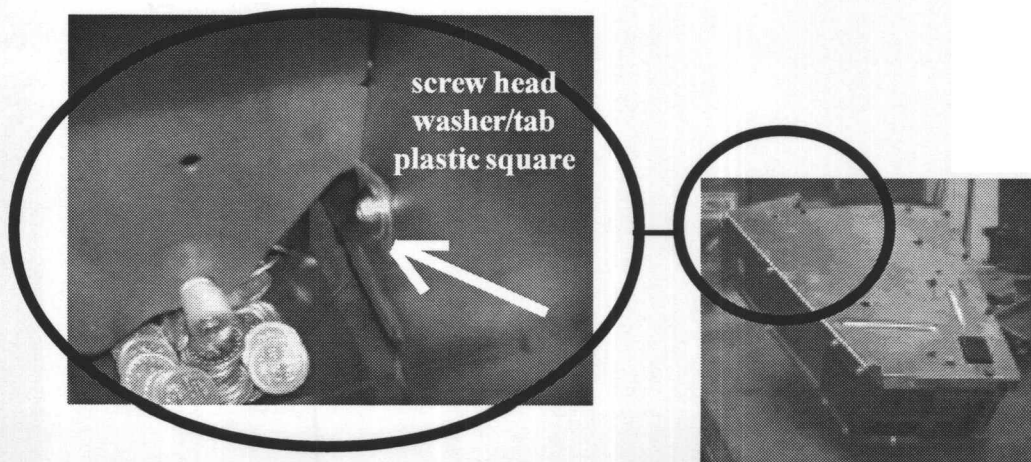
- C. Locate another the of the adhesive backed squares, a washer, and one of the #8 screws included with the kit. Put the screw first through the hole of the washer and then through the square. **For HIGH capacity hoppers, use the metal tab instead of the washer (Figure 10).** Peel off the backing from the square. Take this assembly and reach down into the hopper and place the assembly through the side of the hopper and the square affixed to the outside of the hopper intalled in Step 6B(Figure 11).
- D. From the outside of the hopper, place a washer over the screw, then the ring terminal end of the 5217B wire and finally tighten down with the keps nut included with the kit.

**Figure 10**

**For HIGH capacity hoppers ONLY, use metal tab instead of washer in the assembly**

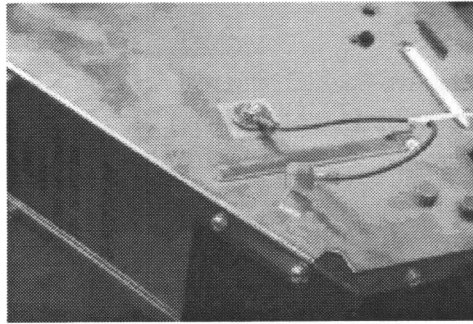


**Figure 11 View Inside Hopper**



- D. From the outside of the hopper, place a washer over the screw, then the ring terminal end of the 5217B wire and finally tighten down with the keps nut included with the kit (Figure 12).

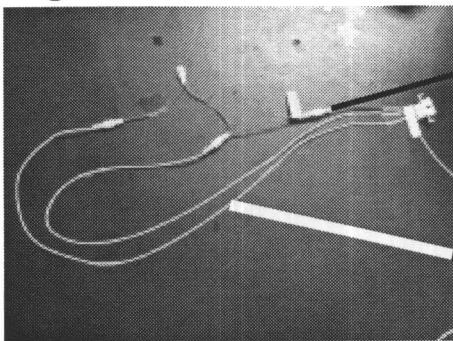
**Figure 12**



- E. One of the connectors from a white wire on the 5217 harness will attach to the 5217B wire just installed. The other two white wires from the 5217 harness are jumped out using the 5217A harness (Figure 13). The other end of the 5217 harness will plug into the matching 4 pin connector on the 5252 Main Box Assembly (Step 5, Page 4).

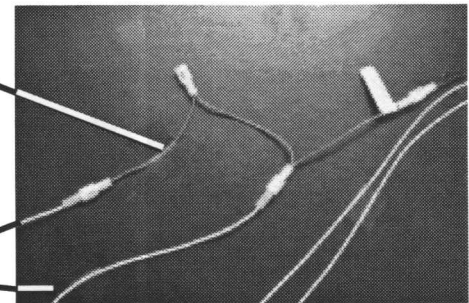
**NOTE: It is not required to hook up hopper sensors to all hoppers. Extra 5217B lead wires and the other necessary components are included if you so desire.**

**Figure 13**



5217A is used as a jumper for the 5217 harness.

5217 Harness wires NOT going to hopper sensor



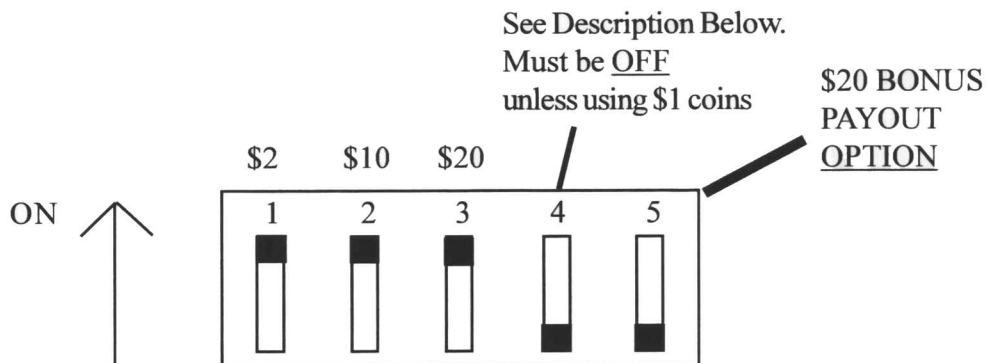
- F. Put the hopper back into place in the bill changer and run wires as shown up the divider wall of the bill changer and feed through a hole to get to the 5252 Main Box.

**Figure 14**



### Step 8 Settings for Dip Switch on 5252 Main Box Assembly and Control Board

The 5252 Main Box Assembly has a series of 5 Dip Switches. The \$1 and \$5 payouts are always ON. The other four switches are for the following:



SWITCH 1: Turns \$2 Payout OFF and ON

SWITCH 2: Turns \$10 payout OFF and ON

SWITCH 3: Turns \$20 Payout OFF and ON

SWITCH 4: When OFF: \$10 is paid in two-\$5 payouts and \$20 is paid in four-\$5 payouts  
The 25 cent bucket = 25 cents

**NOTE: SWITCH 4 can only be ON in a BC-11/12/20/25/35 when used with \$1 coins. Otherwise, SWITCH 4 must be OFF**

When ON: \$10 is paid in one-\$10 payout and \$20 is paid in two-\$10 payouts  
The 25 cent bucket = \$1 and  
The \$1 Bucket = \$10

SWITCH 5: **When ON, pays out an extra \$1 for \$20 (i.e. \$21 dollars for a \$20 bill)**  
When OFF, pays out \$20 for a \$20 bill.