

# Instructions for 5255A Conversion Kit for Rowe BC 3500 to a Mars Validator

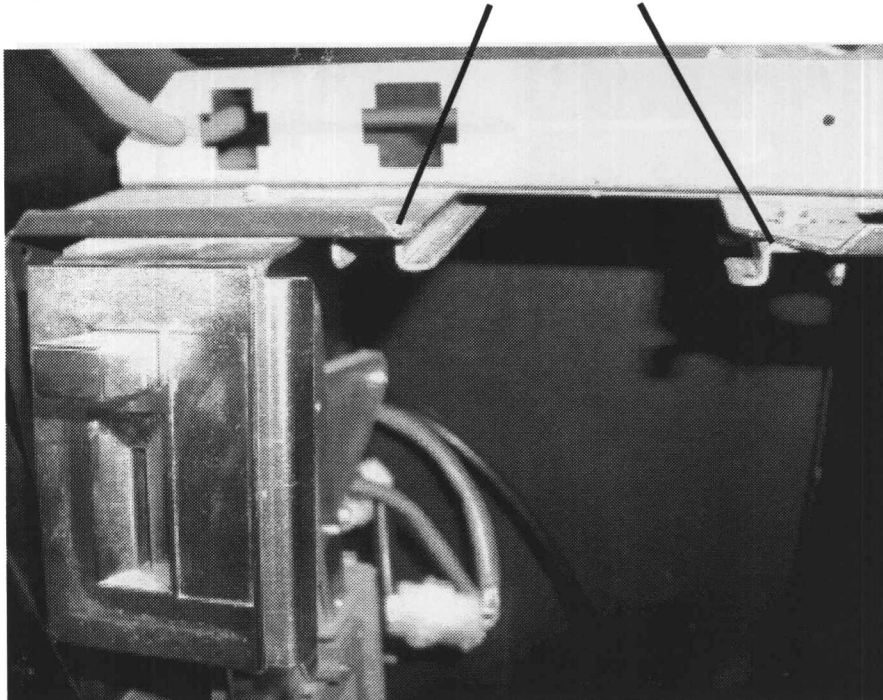
**READ INSTRUCTIONS COMPLETELY BEFORE BEGINNING INSTALLATION**  
**TURN OFF POWER AND UNPLUG THE BILL CHANGER**  
**BEFORE BEGINNING INSTALLATION**

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

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

- A. Unplug the 15 pin bill transport plug .
- B. Pull out the current bill transport completely by sliding out along its track and unlatching the catch. (See Figure 1).
- C. Unplug the stacker harness . Remove the stacker housing/bracket by removing the 2 screws at the top of the bracket, then remove the 2 screws at the inside floor of the stacker bracket.

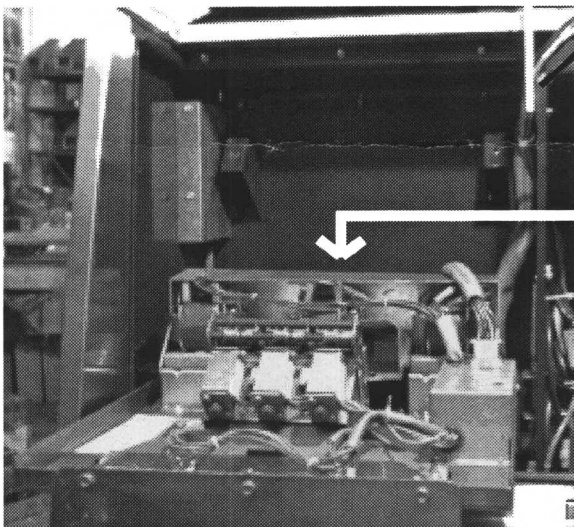
**Figure 1** Bill transport removed / view of track for bill transport



**Step 2 Install “Y” Harnesses (5256 and 5257)**

- 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 5256 “Y” Harness included with the kit. Unplug the 15 pin connector from the J204 plug (figure 3) and plug the 15 pin male connector into J204. Plug the 15 pin female connector from the 5256 harness into the harness that was formerly plugged into J204. 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. Locate the 5257 "Y" Harness. Unplug the **J202** plug and plug in the 12 pin male connector in its place. Plug the 12 pin male connector formerly J202 into the 12 pin female connector of the 5257 harness. The 9 pin male and female ends of the 5257 harness are installed later.
- F. Put the dispenser back in place. Leave the hoppers out for Step 6.

**Figure 2**  
View of Dispenser tilted forward



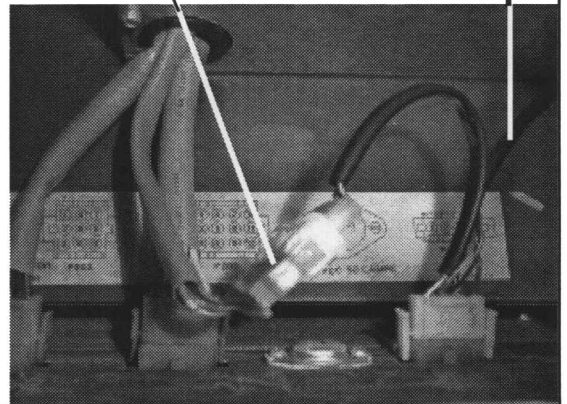
Divider Wall

J204 Plug located  
on bottom of  
dispenser assy.

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

J204 Plug with 5256  
harness attached

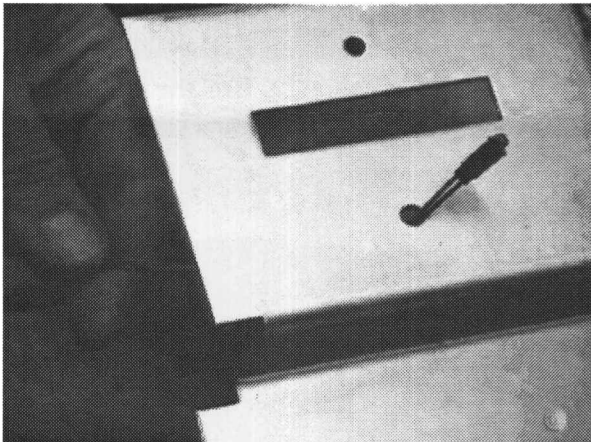
5256 Harness going  
to 5252 Main Box Assy.



### Step 3 Install 5212 Slider Bracket and Validator

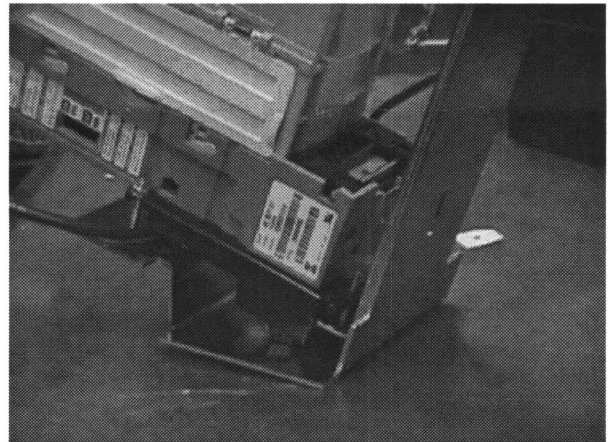
- A. Set the following switches of the Mars validator to the ON position: 1, 2, 3 and 8.
- B. Unplug the indicator light attached to the 5252 Main Box Assembly and insert into the hole located **below** the acceptor slot for the bill acceptor (for the purposes of this kit, you may ignore the hole above the bill acceptor slot) See Figure 4.
- 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.
- E. Affix label to the front of the of the slider bracket. See Figure 6.
- F. Put the slider bracket/validator assembly to the side.

**Figure 4**

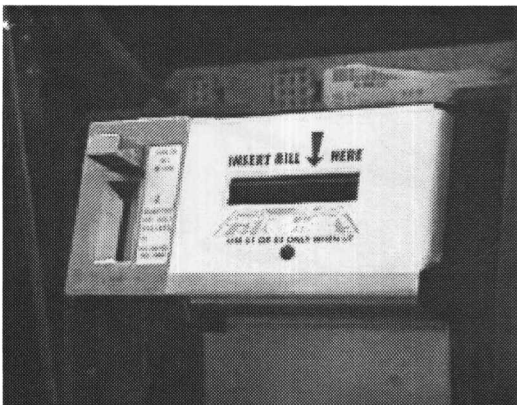


Inserting indicator light into the slider bracket

**Figure 5**



Mounting validator to slider bracket



**Figure 6**

View of Slider Bracket in place with label.

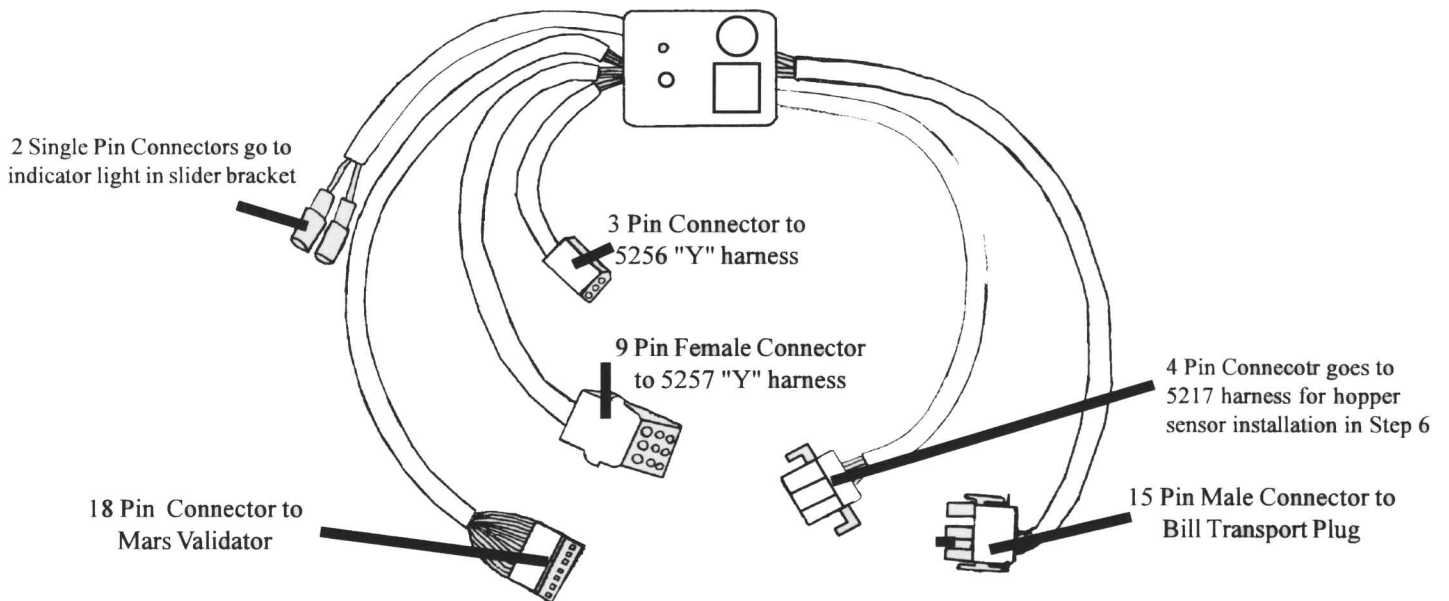
#### Step 4 Install the Power Harness (5239)

- A. Plug the 7 pin end of the 5239 harness into the stacker connector. The other end of the 5239 harness will plug into the Mars Validator in Step 5F.

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

- A. Unplug the harness from the coin mechanism. Plug the female 9 pin connector of the 5257 "Y" harness into the coin mech harness. Plug the **female** 9 pin connector from the main box assembly into the 9 pin male connector of the 5257 harness.
- B. Plug the 15 pin male connector from the main box assembly into the bill transport harness.
- 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 5256 "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 5252 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 back through the wire clips installed on the underside of the slider bracket.

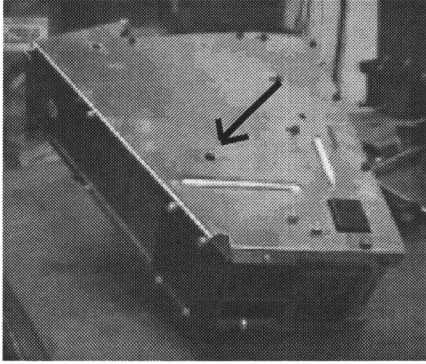
**Figure 7 5252 Main Box and Harness Assembly**



## 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**

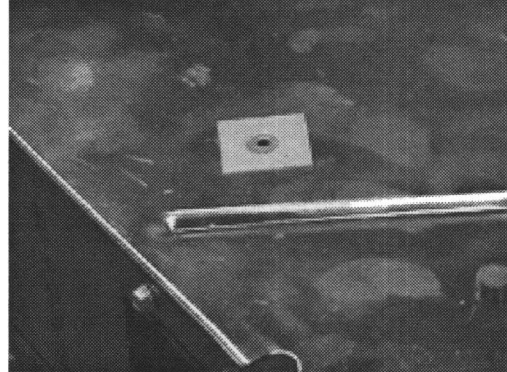


Photo shows placement of adhesive backed square with its hole centered over the hole located on the side of the hopper.

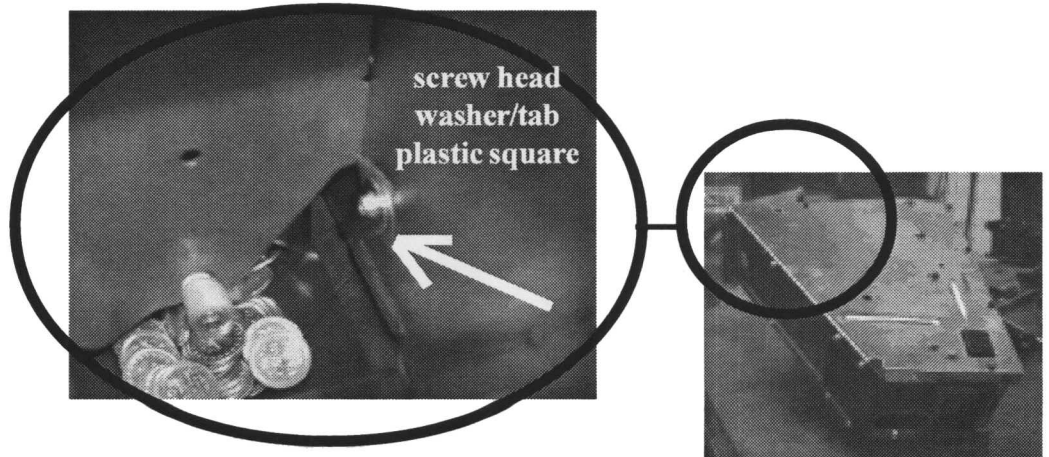
- C. Locate another the of the adhesive backed squares, a washer, and one of the #8 screws included with the kit. Put the screw first through the hole of the washer and then through the square. **For HIGH capacity hoppers, use the metal tab instead of the washer (Figure 10).** Peel off the backing from 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, use metal tab instead of washer in the assembly**



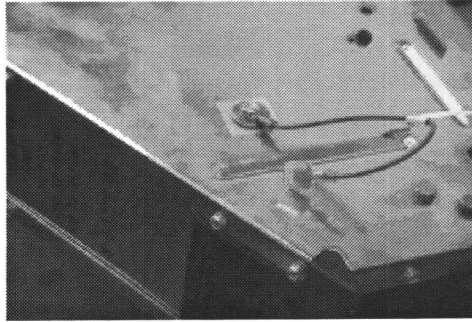
**Figure 11 View Inside Hopper**





- 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).

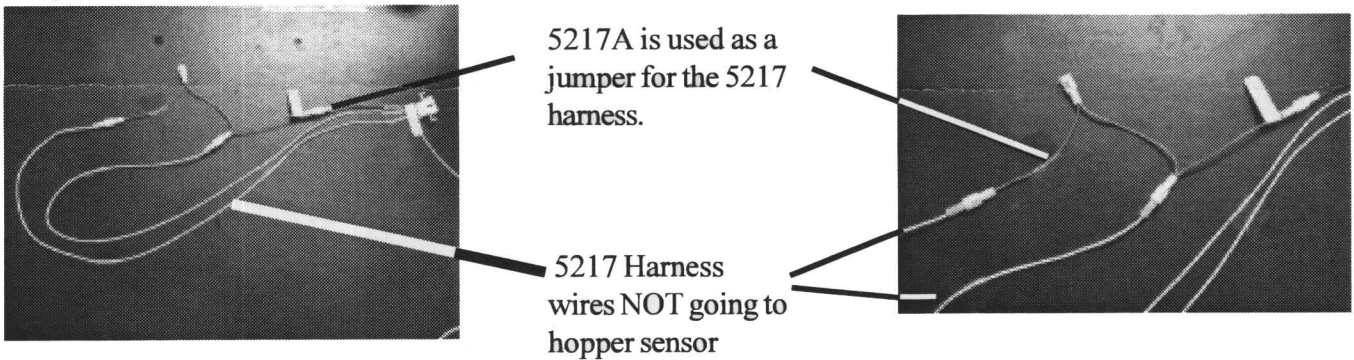
**Figure 12**



- 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 5220 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**



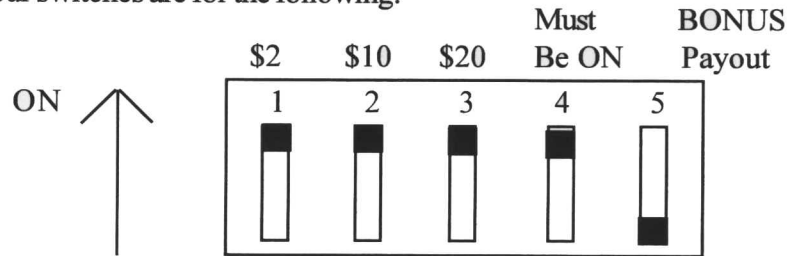
- F. Put the hopper back into place in the bill changer and run wires as shown up the divider wall of the bill changer (Figure 14).

**Figure 14**



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

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 4: **MUST BE ON**

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

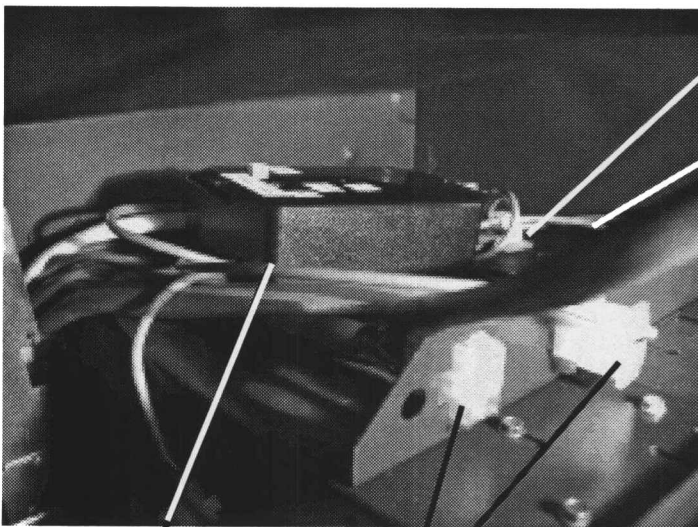
**When OFF, pays out \$20 for a \$20 bill.**

### CONTROL BOARD SETTINGS

For a BC-3500, You **MUST** turn the \$1 coin accept setting ON. The rest of the board settings depend on the payout that you desire for your bill changer.

### STEP 9 Dress the Harness using cable ties and holders enclosed

It is suggested that the Main Box Assembly be placed above the validator and behind the bracket holding the bill changer plugs (Figure 15). The wires can be run down the divider wall, as suggested for the hopper sensor installed earlier and along the back of the bill changer as shown in Figure 16. All other loose wires should be dress neatly using the wire ties and adhesive backed clips included with the kit.

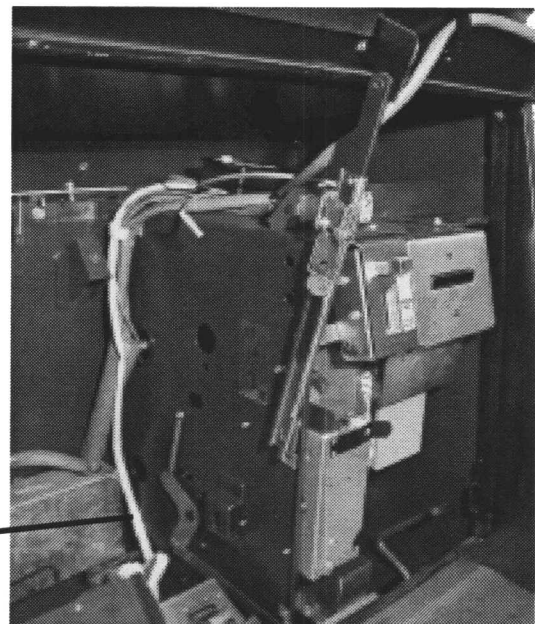


**Figure 15**

cable tie and holder

wires running to validator

**Figure 16**



Main Box Assembly

bill transport plugs

5256 Harness

### STEP 10 Test the bill changer

<b><u>Part Number</u></b>	<b><u>Description</u></b>	<b><u>Qty.</u></b>
5252	Main Box Assembly w/indicator light	1
5239	Power Harness-110V	1
5256	"Y" Harness	1
5257	"Y" Harness	1
5212	Slider Bracket	1
5221	Clip to Hold Indicator Light	1
5225	Label for Slider Bracket	1
5217	Low Coin Sensor Harness	1
5217A	Low Coin Sensor Jumper Harness	1
5217B	Coin Harness Lead Wire	3
5223	Plastic Square with Hole for Sensor	6
5224	Metal Tab	3
5226	Label Set-For Rowe BC20/25/35	1
5227	Label-Caution	1
<b>Hardware:</b>		
7344	Carriage Bolt-1/2"	1
7349	Screw-3/8"	3
7260	Hex Nut-1/4-20	1
7261	Lock Washer-1/4-20	1
7207	Keps Nut-8-32	7
4601	Cable Tie-5 1/2"	6
4650	Tie Mount	6
4652	Mounting Clip	6
MIS815	Washer	6
MIS492	Velcro-Hook	2"
MIS493	Velcro-Loop	2"