



96XX
EMV CARD READER
FIELD INSTALLATION
GUIDE
VERSION 2.0

TDN 07007-00005B 09/04

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96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

INTRODUCTION

This Installation Guide provides instructions for installing the EMV Card Reader, modified paper roll bracket and grounding straps.

PART SUPPLIES/REQUIRED TOOLS

The following table lists the parts supplied in the EMV Card Reader Upgrade Kit:

EMV Card Reader Upgrade Kit (P/N 06200-00020)		
1	01162-00007	EMV CARD READER
1	01080-00089	CABLE, CARD READER-TO-QUAD PORT BOARD
2	09120-00013	CABLE, GROUNDING
1	03011-00047	PAPER SENSOR BRACKET
2	02321-00004	NYLON SNAP FASTENER
1	03011-00198	PAPER ROLL BRACKET
2	02303-00007	WASHER, NYLON
1	02054-00049	SCREW, #8-32 X 3/8"
1	02318-00000	STANDOFF, THREADED
1	02323-00001	INSERT, THREADED
1	01030-00010	FERRITE
2	03072-00009	CABLE CLIP, PANDUIT, ADHESIVE
1	09600-00044	QUAD SERIAL PORT BOARD
2	03072-00015	TY WRAP, 6-INCH
2	02054-00300	SCREW, #6-32 X 1/4" HEX HEAD
1	07007-00005B	FIELD INSTALLATION GUIDE
RECOMMENDED TOOLS		
	MEDIUM PHILLIPS SCREWDRIVER	
	SOCKET WRENCH WITH 7/16-INCH SOCKET, OR 7/16-INCH NUTDRIVER	
	WIRE CUTTERS OR SNIPS (FOR CUTTING TY WRAPS)	

CAUTION!

If you need more room to work on the control panel you may disconnect the pneumatic arm and lower the panel to provide more work space, as described in the following optional steps. Be advised that this places additional stress on the panel, and makes it vulnerable to cracking or splitting!

DO NOT BEND OR FLEX THE PANEL DURING PERFORMANCE OF THE INSTALLATION PROCEDURE!

INSTALLATION PROCEDURE

1. Unlock and open the ATM control panel.
2. Turn the ATM power switch (on the right side of the card cage module) to the OFF (0) position.
3. Remove the printer paper roll. Refer to applicable operation manual for procedure.
4. **[Optional]** Unlock and open the fascia panel.
5. **[Optional]** While holding the control panel firmly, twist the pneumatic piston arm in a counter-clockwise direction to unscrew it from the bracket, as shown.



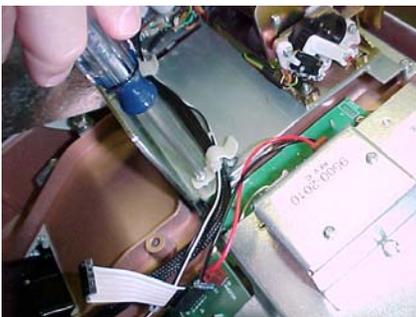
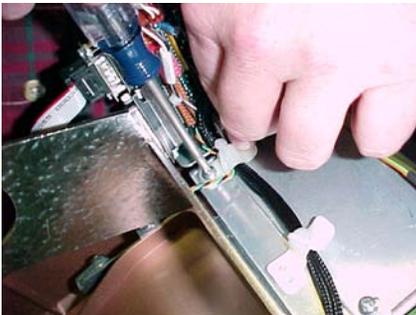
96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

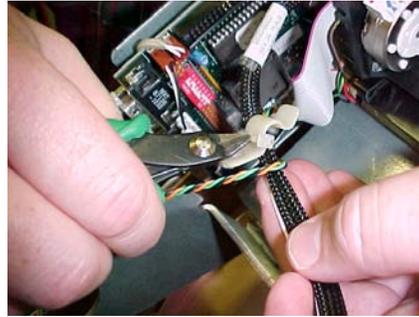
6. [Optional] Lower the control panel so that it rests on the top edge of the fascia panel.



7. Use a screwdriver to remove the screws that secure the two cable clips to the printer bracket.

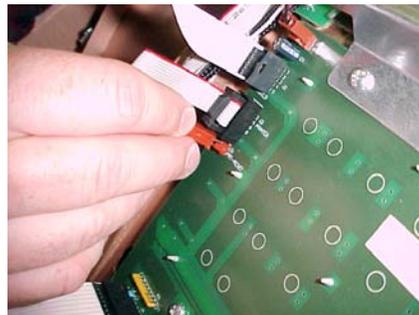
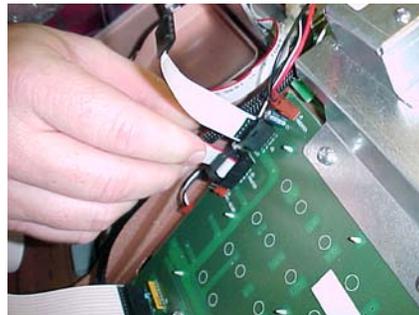


8. Cut the ty wrap that secures the printer power, reset and paper low sensor cables to the left printer bracket cable clip. **Note how the cables are ty-wrapped to the clip: you will use a new ty wrap to reconnect the cables to the clip in a later step.**



9. Cut the ty wrap that secures the printer power and reset cables to the right cable clip. **Note how the cables are ty-wrapped to the clip: you will use a new ty wrap to reconnect the cables to the clip in a later step.**

10. Disconnect the cable connectors at J3 (Printer) and J5 (Printer-Reset) on the keypad board.



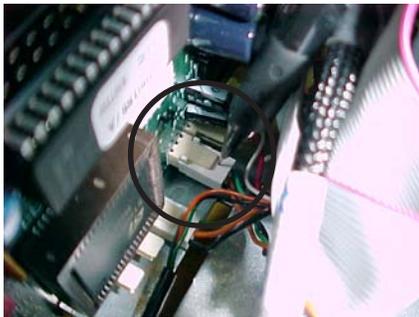
96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

11. Remove the ribbon cable from between the adhesive cable clips.



12. Disconnect the low paper sensor cable at connector J11 on the printer control board. This cable is connected to the low paper sensor on the paper roll bracket.



13. Disconnect the existing low paper sensor by removing the sensor bracket screws with a phillips screwdriver. Retain screws and set component aside. The sensor will be remounted on the new paper support bracket.

NOTE

If you have an old sensor bracket shown in Figure 1, the bracket will be replaced with the bracket included with the kit (Figure 2). Instructions for removing and reinstalling the sensor are at the end of this manual.

If you have the bracket type shown in Figure 3, you will simply remount the bracket (w/sensor) on to the new paper support bracket.

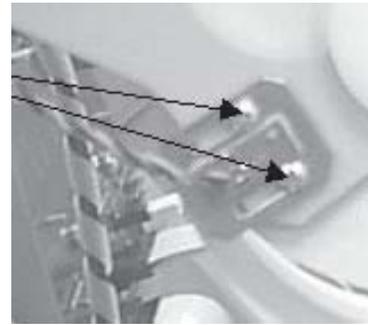


Figure 1

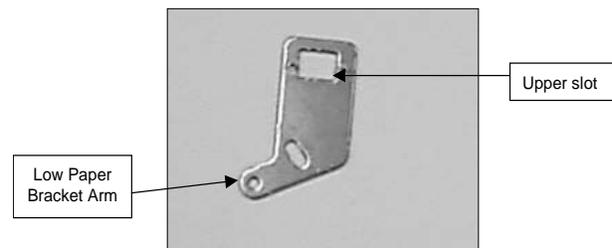


Figure 2



Figure 3

14. Use a socket wrench to loosen the bolt on the pneumatic piston bracket.



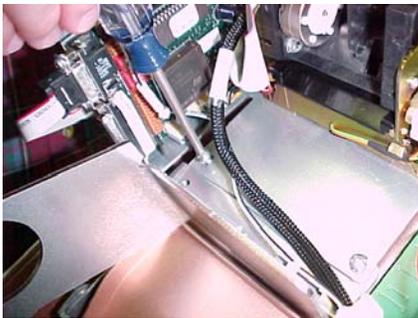
96XX CASH DISPENSER

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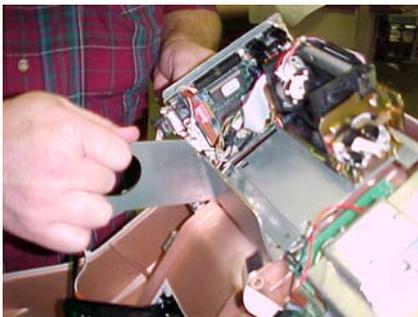
15. Use a screwdriver to loosen (do not remove!) the two screws at the top of the printer bracket.



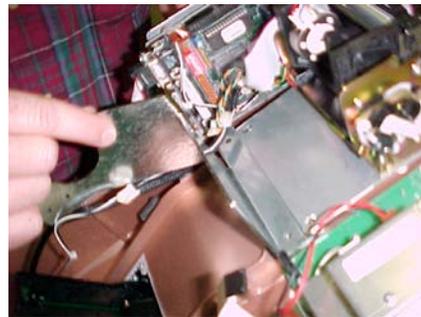
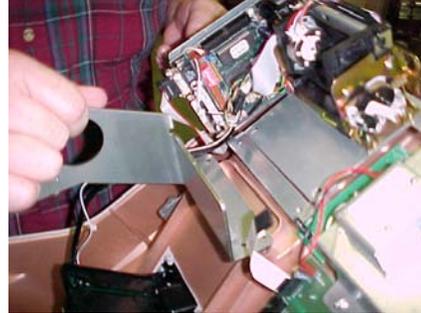
16. Remove the two screws that attach the paper bracket to the printer bracket.



17. Move the disconnected cables out of the way as needed. Lift the printer bracket slightly and slide the paper bracket from beneath the lower edge of the printer bracket. Remove the paper bracket.



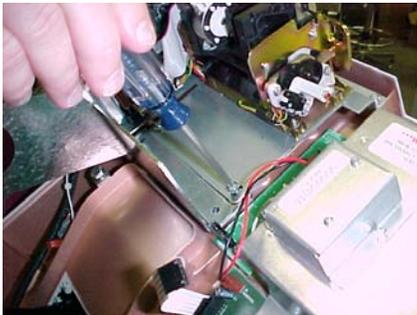
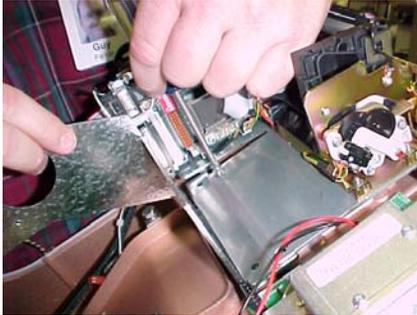
18. Slide new paper bracket underneath lower edge of printer bracket.



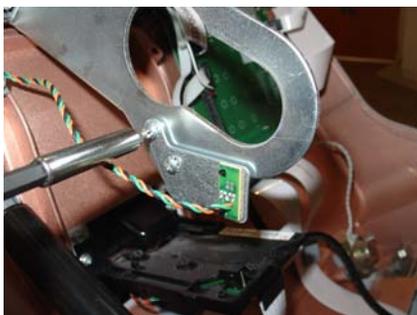
96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

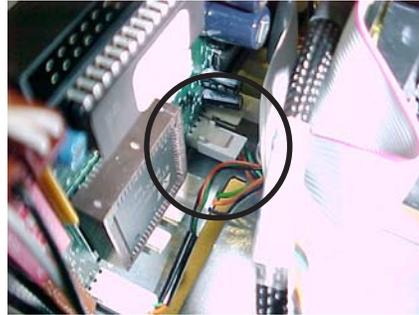
19. Attach the new paper bracket to the printer bracket, using the screws that were removed previously.



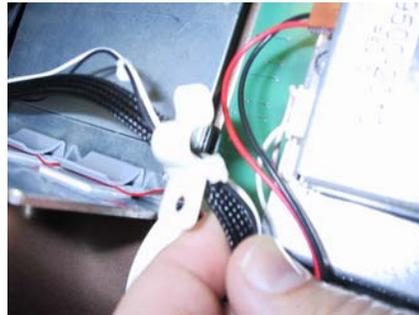
20. Reinstall the low paper sensor bracket previously removed to the paper support bracket



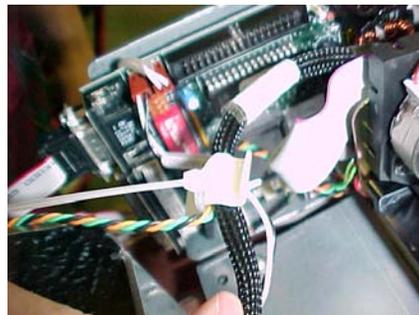
21. Connect the low paper sensor cable at connector J11 on the printer control board. This cable is connected to the paper low sensor on the paper roll bracket.



22. Ty wrap the printer power, printer reset and paper low sensor cables to the left cable clip.



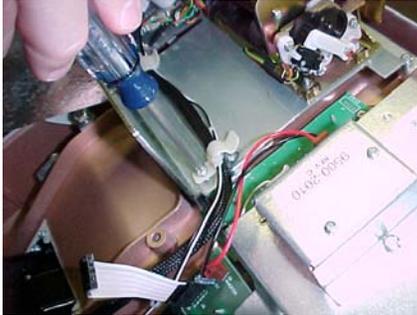
23. Ty wrap the printer power and printer reset cables to the right cable clip.



96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

24. Attach the two cable clips (with ty-wrapped cables attached) to the printer bracket holes, using the screws that were removed previously.



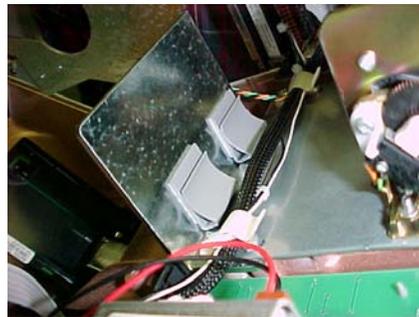
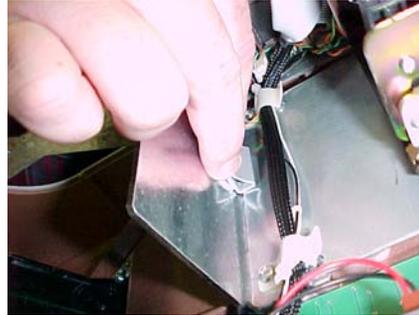
25. Use a screwdriver to tighten the upper printer bracket screws that were loosened previously.



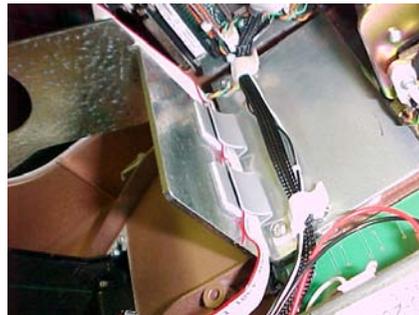
26. Use a socket wrench to tighten the pneumatic arm bracket bolt (loosened in an earlier step).



27. Place two adhesive cable clips on new bracket (for ribbon cable).



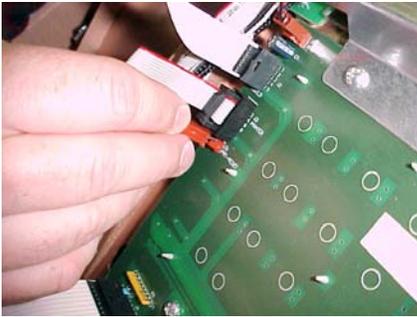
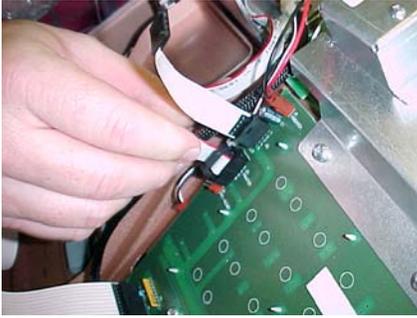
28. Place ribbon cable through two adhesive cable clips.



96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

29. Reconnect J3 (Printer) and J5 (Printer Reset) cables to the keypad board.



30. Remove data cable from the existing card reader and from J4 on the keypad board.



31. Remove the four mounting screws from the existing card reader.



32. Remove the existing card reader through the front of the ATM control panel.



33. Note grounding wire on EMV card reader. If necessary, remove the screw that secures one end of the card reader's grounding wire to the body of the card reader. Replace the screw.



96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

34. Insert EMV card reader through front of ATM control panel.



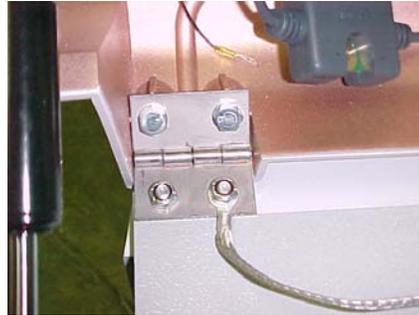
35. Secure the card reader in place using the four mounting screws that were removed previously.



36. Connect a grounding strap between rear cabinet bolt and card cage screw.



37. Connect a grounding strap to the left control panel hinge bolt (near the card reader).



38. Install the mounting post for the card reader's ESD module. First, locate the panel boss, below and immediately to the right of the card reader. **Ensure there is no dust, dirt or other foreign material in the panel boss hole.** Place the provided threaded insert into the panel boss. **Important: Turn the insert so that the non-threaded end is inserted into the panel boss hole FIRST.**

Apply firm pressure with the tip of a screwdriver or other tool to press the insert into the boss. The insert should fit snugly and should be flush with the surface of the boss.

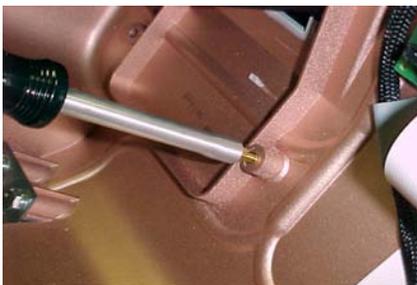
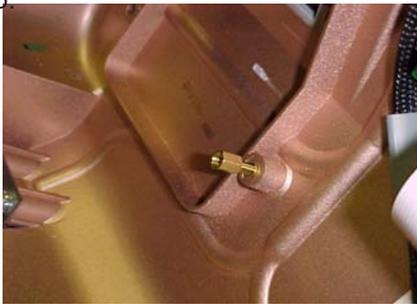


96XX CASH DISPENSER

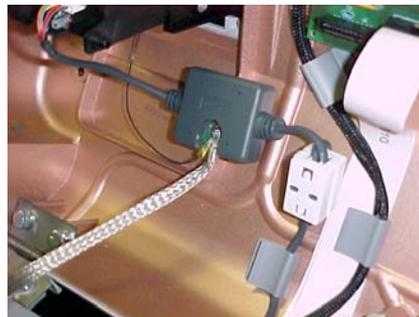
EMV CARD READER - FIELD INSTALLATION GUIDE



39. Use a nutdriver to screw the threaded standoff into the insert that was installed in the previous step.



40. Place the card reader grounding wire and grounding strap lugs onto the ESD module mounting hole and secure the ESD module and grounding wires to the standoff with a single screw.

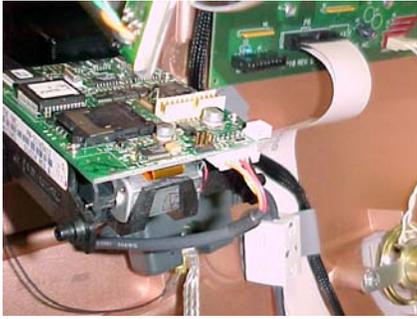


41. Connect cable from ESD module to card reader. Note: orange wire in connector should be on the left.

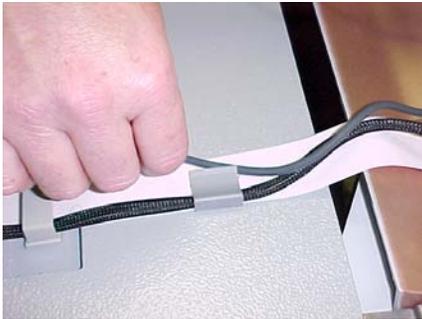


96XX CASH DISPENSER

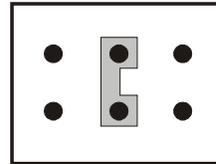
EMV CARD READER - FIELD INSTALLATION GUIDE



42. Route other end of ESD module cable through cable clips, as shown.



43. Locate jumper JP3 on the quad port board. Ensure the jumper is configured for 12 volts, as shown in the diagram.



JP 3

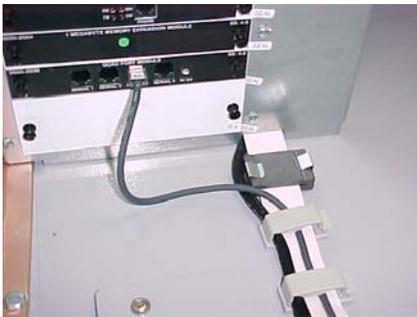
44. Remove blank plate from card cage, in position SS-4 or SS-5. Insert quad port board into card cage. Make sure the card is firmly seated in the slot.



96XX CASH DISPENSER

EMV CARD READER - FIELD INSTALLATION GUIDE

45. Connect cable from ESD module to the SERIAL 3 port on the quad port board.



46. [Optional] If the pneumatic piston was previously removed from the bracket, reconnect it.

47. [Optional] Close and lock the fascia panel.

48. Turn on power to the ATM
49. Replace the printer paper roll. Refer to applicable operation manual for procedure.
50. Use the included software disk to update the ATM operating software.
51. Close and lock control panel. The installation procedure is complete.

**LOW RECEIPT-PAPER SENSOR
UPGRADE KIT
INSTALLATION INSTRUCTIONS**

Low Receipt-Paper Sensor Upgrade Kit Installation Instructions

Tools needed:

Screwdriver, Phillips head (not included)
Screwdriver, standard head or a metal shim (not included)

Installation instructions:

1. Open the upper hood of the unit.
2. Turn off the power by setting the power supply switch to “0”.
3. Remove the paper roll by sliding the paper spindle up and out the keyhole slot (see fig. 1).
4. Disconnect the old bracket by removing the sensor bracket screws with a Phillips screwdriver (see fig. 1).
5. Holding the old bracket assembly—taking caution not to excessively pull on the sensor wires—use a screwdriver or metal shim to pop out the white plastic snap rivets and washers (see fig. 2), thus disconnecting the sensor from the bracket.
6. Holding the retrofitted bracket with the bracket arm pointing down and to the left (see fig. 3), place the sensor face down in the upper slot (see fig. 4).
7. Keeping the sensor in the bracket slot, hold them so that a push rivet can be inserted through both holes from the bottom up (see fig. 5). Push the heads of the rivets until they click into place and the sensor is secure on the bracket.
8. Insert one of the screws (from the topside) through the hole in the bracket arm. Place one of the plastic spacers over the end of the screw. Repeat this using the oblong slot in the bracket. Thread the screws into the existing tapped holes in the Paper Bracket finger tight only. (The proper order for this configuration should be Screw head-Low Paper Bracket-Nylon Spacer-Paper Bracket.)
9. Tighten the securing screws down.

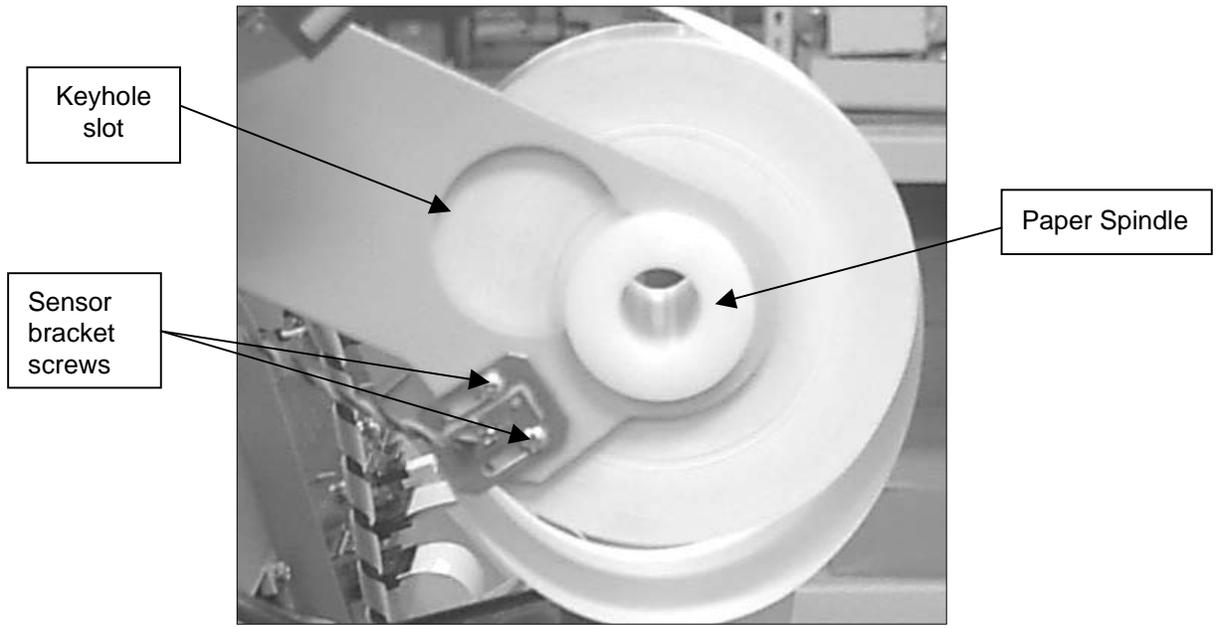


Figure 1

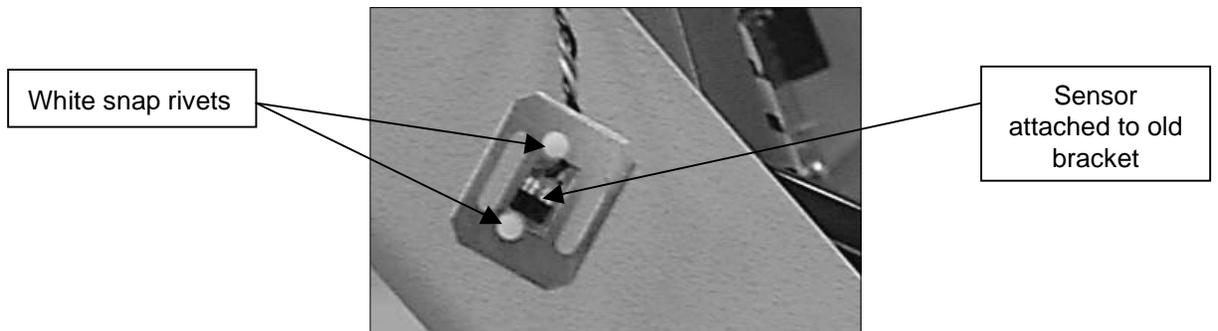


Figure 2

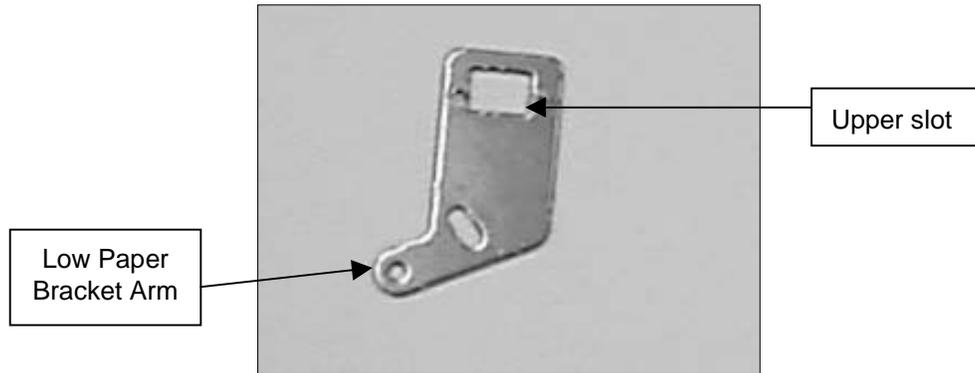


Figure 3
("Top view" of bracket)

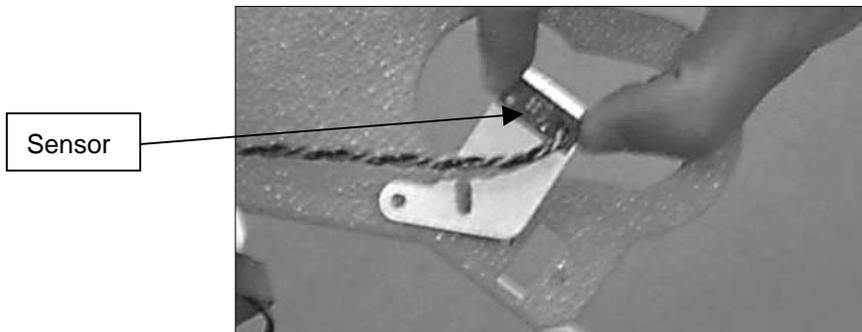


Figure 4

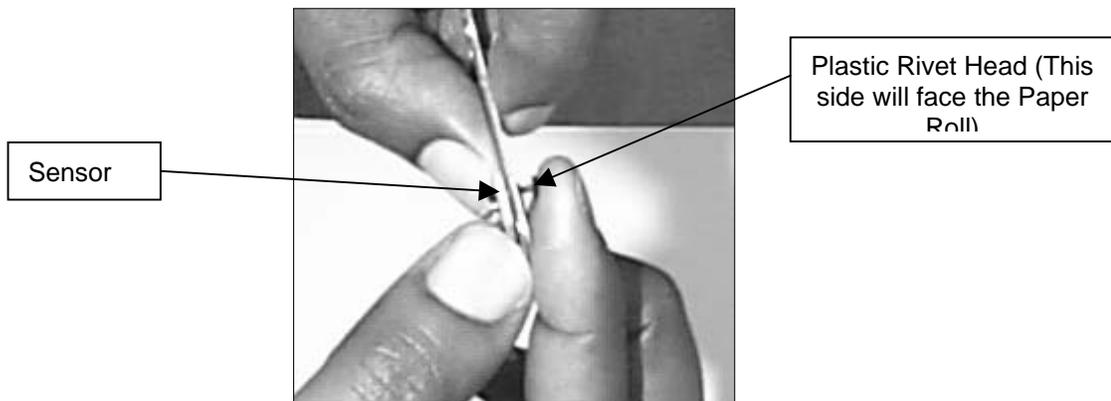


Figure 5
(As viewed from the side)