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# **STAN®**

## **Assembly/Disassembly Procedures**

**Version 1.0**

**August 6, 2007**





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# SGI Documentation Policy

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**PLEASE NOTE:**

Every effort was made to ensure that the information contained in this document is complete, correct, and up to date as of the publication date.

Incomplete or incorrect content should be reported to appropriate individual(s).



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# CHAPTER 1

## PRINTER ASSEMBLY

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### Printer Assembly Parts List

The following parts are required to complete the STAN Printer Assembly:

PART NUMBER	QTY	DESCRIPTION
AD60-0004	1	TAPE, ADHESIVE, VHB, DBL SIDE, 1/4 IN X .010 IN
BC80-0002	1	CHAIN, POLYURETHANE, 32 PITCH, 51 PITCHES X .195IN
BE60-0001	2	BEARING, ROLLER, ID.1875IN-OD3/8IN X 1/8IN, DBL SHLD, FLNGD
BG10-0002	1	BUSHING (MACHINED), DELRIN, PRINTER IDLER SHAFT, SHORT
BG10-0003	1	BUSHING (MACHINED), DELRIN, PRINTER IDLER SHAFT, LONG
BG60-0001	1	BUSHING, SHORTY, NYLON, ID5/8IN/MD3/4IN X 1/4IN
BG90-0002	1	BUSHING, FLX-P BRUSHES, FLX-10, 4 IN LENGTH, FIBER-COND ARC
BR30-0037-01	1	BRACKET (SHEET-FAB), GALVANNEALED, PRINTHD PIVOT PLATE, MOD
BR30-0038-01	1	BRACKET (SHEET-FAB), GALVANNEALED, PRINTHD PRESSURE PLT, MOD
BR30-0039	1	BRACKET (SHEET-FAB), GALVANNEALED, PRINTER MOTOR MOUNTING
BR30-0040	1	BRACKET (SHEET-FAB), ALUM, PRINTER LOWER GUIDE
BR30-0067	1	BRACKET (SHEET-FAB), GALVANNEALED, EXTREMA PRINTHD GRASPING
CH30-0001-01	1	CHASSIS (SHEET-FAB), GALVANNEALED, PRINTER, MODIFIED
CL60-0006	1	CLAMP, CABLE, FLAT
CN82-0002-06	1	CONN, MTA, 6 POS IDC .100 CTRS, 22 AWG SN, CLOSED END, UNPOL
CR82-0001-06	1	CONN COVER, MTA DUST, 6 POS .100 CTRS, CLOSED END W/SR
GE64-0002	1	GEAR, SPUR, ALUM, 48 PITCH, 22 TEETH, 3/16 BORE
GU20-0007	1	GUIDE (MOLDED), POLYCARBON, PRINTER PAPER
LL45-0005-L	1	LATCH (CUSTOM), PRINthead, LEFT - MAX3000 PRINTER
LL45-0005-R	1	LATCH (CUSTOM), PRINthead RIGHT - MAX 3000 PRINTER
MT45-0003	1	MOTOR (CUSTOM), STEPPER, W/12IN LDS & 6 POS MTA CONN, PROBE
PH60-0005	1	PRINT HEAD, THERMAL 640 DOT 80MM 200 DPI, SERIAL, ROHM
PT30-0020	1	PLATE (SHEET-FAB), ALUM, PRINTER UPPER GUIDE

PART NUMBER	QTY	DESCRIPTION
PT30-0051	1	PLATE (SHEET-FAB), ALUM, ROHM PRINthead SHIM
RL10-0012	1	ROLLER (MACHINED), MAX 3000 PRINT
RR60-0008	1	E-RING, 3/16 ID .145, OD .335, .025 THK
SA40-0001	1	ASSY, CUTTER, 90 MM 24 VDC FULL CUT
SC54-0009	21	SCREW, #4-40 X 1/4 TYPE SWAGEFORM PHILLIPS PAN HD, ZINC
SC54-0021	2	SCREW, #4 -40 X 3/8 SEM PPH
SC54-0027	2	SCREW, #4-40 X 1/4 IN PPH SEM
SC73-0004	3	SCREW, M3 X 5 SEM PPH, ZINC PL, W/INT TOOTH WASHER 6.3MM OD
SG20-0003	2	SPRING (CUSTOM), EXTENSION, MUSIC WIRE, HEAD LATCH
SG60-0002	3	SPRING, COMPRESSION, .024 DIA MUSIC WIRE, .180 OD, .375 LG
SH10-0008-01	1	SHAFT (MACHINED), STAINLESS, MAX3000 PRINTER ASSY, IDLER
SH10-0011	1	SHAFT (MACHINED), PRINthead LATCH - MAX 3000
SN45-0002	1	SENSOR (CUSTOM), MAX 3000 PAPER OUT
SP60-3598	1	SPACER, NYLON UNTHRD RND SPACER 5/16IN OD, 1/8IN LG,#10 ID
SR20-0001	1	SPROCKET (MOLDED), DELRIN, 32P-24T, ID3/16IN, D
SR20-0003	1	SPROCKET (MOLDED), DELRIN, 32P-24T, 1 5MM, D
TW60-0001	1	TIE WRAP, NYLON, 3.9IN, .10 IN WIDTH, .87 IN MAX DIA
TW60-0006	1	TIE WRAP HOLDER, NYLON, 4-WAY, 1/2 X 1/2 X 1/8IN, ADH MOUNT
TW70-0002	1	WRAP, SPIRAL, POLYETHYENE, .25IN X.375IN X 0.04IN, YELLOW
WA54-0003	26	WASHER, #4, STEEL INT LOCK, .255 OD .125 ID
WA56-0007	1	WASHER, #6 .375 O.D. X .156 I.D. X .049 THK, TYPE A PLAIN
WA73-0001	1	WASHER, M3, ID.13IN/OD.28IN X .023IN, PLATED BRASS OR EQUIV
WA90-0006	1	WASHER, NYLON, OD.437IN/ID.195IN X .040IN

## Printer Assembly Procedure

Perform the following steps to assemble the STAN Printer Assembly:

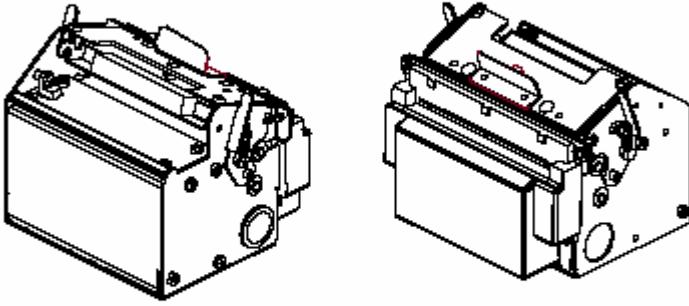
Printer Assembly Procedure																																													
1. Printer Assembly	<p><b>QR-22-010 PAGE 1 OF 1</b> <b>PRINTER ASSEMBLY</b></p> <table><tbody><tr><td>MAX3000</td><td>SA25-0001-01</td></tr><tr><td>EXTREMA</td><td>SA25-0001-02</td></tr><tr><td>EXTREMA</td><td>SA25-0001-06 (ROHM W/CBL&amp;PVFY)</td></tr><tr><td>STAN</td><td>SA25-0001-04</td></tr><tr><td>STAN</td><td>SA25-0001-08</td></tr></tbody></table>  <table><thead><tr><th>REV</th><th>DESCRIPTION</th><th>APP'D</th><th>DATE</th></tr></thead><tbody><tr><td>13</td><td>UPDATE DETAILS STEPS 5,6,7</td><td>DL</td><td>11MAY06</td></tr><tr><td>12</td><td>UPDATE DETAILS STEPS 2,5,8</td><td>DL</td><td>22FEB05</td></tr><tr><td>11</td><td>ADDED BCLC MOD</td><td>SER</td><td>08JUL02</td></tr><tr><td>10</td><td>CLEANED UP BOM</td><td>SER</td><td>12OCT01</td></tr><tr><td>9</td><td>ADDED BF25-0007 REF</td><td>SER</td><td>08OCT01</td></tr><tr><td>8</td><td>REVISED PART NUMBERS</td><td>SER</td><td>10NOV00</td></tr><tr><td>0</td><td>ORIGINATED &amp; RELEASED</td><td>GG</td><td>13NOV98</td></tr></tbody></table> <p>ASSEMBLY NOTES: 1. UNLESS OTHERWISE SPECIFIED: MAX ELECTRIC DRILL SETTING: 2 (SEMS), 4 (SWAGE) MAX CORDLESS DRILL SETTING: 1 (SEMS), 3 (SWAGE)</p>			MAX3000	SA25-0001-01	EXTREMA	SA25-0001-02	EXTREMA	SA25-0001-06 (ROHM W/CBL&PVFY)	STAN	SA25-0001-04	STAN	SA25-0001-08	REV	DESCRIPTION	APP'D	DATE	13	UPDATE DETAILS STEPS 5,6,7	DL	11MAY06	12	UPDATE DETAILS STEPS 2,5,8	DL	22FEB05	11	ADDED BCLC MOD	SER	08JUL02	10	CLEANED UP BOM	SER	12OCT01	9	ADDED BF25-0007 REF	SER	08OCT01	8	REVISED PART NUMBERS	SER	10NOV00	0	ORIGINATED & RELEASED	GG	13NOV98
MAX3000	SA25-0001-01																																												
EXTREMA	SA25-0001-02																																												
EXTREMA	SA25-0001-06 (ROHM W/CBL&PVFY)																																												
STAN	SA25-0001-04																																												
STAN	SA25-0001-08																																												
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8	REVISED PART NUMBERS	SER	10NOV00																																										
0	ORIGINATED & RELEASED	GG	13NOV98																																										

Figure 1-1

Printer Assembly Procedure	
2. Step 1 DETAIL 'A'	<p>SCREW, 4-40 X 1/4 SWAGEFORM SC54-0009 2 PLACES ADD WASHER, WA54-0003 TO EACH SCREW</p> <p>PLATE, PRINthead PRESSURE BR30-003B-01</p> <p>DETAIL 'A'</p> <p>SCREW, M3 X 5 W/INT TOOTH LOCKWASHER SC73-0004 3 REQ'D</p> <p>SPRING, COMPRESSION, .180 OD X .375 LG SG80-D002 3 REQ'D</p> <p>SHIM, PT30-0051, ROHM PRINthead ONLY</p> <p>ROHM PRINthead, RA HEADER, PH6D-0005 GULTON PRINthead, STRAIGHT HDR, PH6D-0002</p> <p>1. PRINthead ASSEMBLY</p> <ol style="list-style-type: none"><li>SECURE 3 SPRINGS TO PRINthead PRESSURE PLATE</li><li>ATTACH PRINthead TO PRINthead PIVOT PLATE</li><li>INSERT PIVOT PLATE/PRINthead INTO PRESSURE PLATE AND INSTALL IN CHASSIS ON TWO PEM NUTS</li></ol>
3. Step 1 DETAIL 'B'	<p>BRACKET, PRINthead GRASPING BR30-0087</p> <p>EXTREMA/MAX300D</p> <p>DETAIL 'B'</p> <p>SPRING, TICKET RETAINING, CP30-0003</p> <p>STAN</p> <p>SCREW, 4-40 X 1/4 SWAGE SC54-0009, 2 PLACES ADD WASHER, WA54-0003 TO EACH SCREW</p>

Figure 1-2

Figure 1-3

Printer Assembly Procedure	
4. Step 2 DETAIL 'C'	<p><b>EXTREMA ONLY:</b> BF25-0007 IS FITTED TO BOTH LATCHES, LL45-0005 R &amp; L</p> <p><b>SPRING, HEAD LATCH SG2D-0003</b></p> <p><b>SCREW, 4-40 X 1/4 SEMS SC54-0027</b></p> <p><b>NOTE: DO NOT USE SC54-0009 HERE AS THEY MAY BURST THE PEM</b></p> <p><b>DETAIL 'C'</b></p> <p><b>2. LATCH ASSEMBLY</b></p> <ul style="list-style-type: none"> <li>i) PLACE SPACER THRU SLOTS IN CHASSIS</li> <li>ii) ATTACH LEFT AND RIGHT LATCHES (WITH BF25-0007, EXTREMA ONLY) WITH SPACER ON OUTSIDE OF CHASSIS, BOTH SIDES</li> <li>iii) INSTALL SCREW &amp; WASHER TO PEMS ABOVE SPACER HARDWARE</li> <li>iv) ATTACH SPRING WITH HOOKS TO LATCH SIDE, BOTH SIDES</li> <li>v) PUSH LATCHES FORWARD &amp; TIGHTEN ALL SCREWS</li> </ul>
5. Step 2 DETAIL 'D'	<p><b>NOTE KEYING</b></p> <p><b>CUT LEADS TO 12"</b></p> <p><b>TOP VIEW CONNECTOR W/OUT COVER</b></p> <p><b>YELLOW</b></p> <p><b>BLACK</b></p> <p><b>PINK</b></p> <p><b>BLUE</b></p> <p><b>WHITE</b></p> <p><b>ORANGE</b></p> <p><b>TO MOTOR</b></p> <p><b>CONNECTOR COVER CR82-0001-08</b></p> <p><b>POKE-N-CRIMP CONNECTOR CN82-0002-08, BLUE</b></p> <p><b>CONNECTOR COVER CN56-0007-06</b></p> <p><b>STUFFED WITH 6 X CT56-0001, 26-22 AWG CRIMP CONTACTS</b></p> <p><b>DETAIL 'D'</b></p>

Figure 1-4

Figure 1-5

Printer Assembly Procedure	
6. Step 3	<p>The diagram illustrates the Print Roller Assembly. It shows a rectangular chassis labeled CH30-0001-01. A cylindrical print roller labeled RL10-0012 is attached to the right end of a shaft. A bearing labeled BE60-0001 BOTH ENDS is mounted on the shaft. A latch labeled LL45-D005-R DETAIL 'C' is attached to the right side of the chassis. A shaft labeled SH10-D011 is attached to the left side of the chassis. A printhead pressure plate labeled REF. DETAIL 'A' is shown above the chassis. A circlip (E-ring) labeled RR90-0001 is used to secure the bearing. The assembly steps are as follows:</p> <ol style="list-style-type: none"><li>3. PRINT ROLLER ASSEMBLY<ol style="list-style-type: none"><li>i) ATTACH BEARING, FLANGE TO ROLLER, BOTH ENDS</li><li>ii) ATTACH E-RING</li><li>iii) INSERT BEARINGS TO SLOTTED HOLES IN CHASSIS</li></ol></li></ol>
7. Step 3 DETAIL E	<p>This diagram shows a sensor labeled SN70-0001 connected to a connector labeled CN56-0003-05. The sensor has four wires: WHITE, GREEN, BLUE, and ORANGE. The connector has four pins: GREEN, ORANGE, BLUE, and WHITE. A dimension of 16" is indicated between the sensor and the connector. The entire assembly is labeled DETAIL 'E'.</p>

Printer Assembly Procedure	
8. Step 4	<p>SCREW, 4-40 X 3/8 SEMS SC54-0021</p> <p>SENSOR ASSY SN45-0002 SEE DETAIL 'E'</p> <p>M3 WASHER WA73-0001</p> <p>UPPER PAPER GUIDE PT30-0020 OR PT30-0081 (BCLC ONLY)</p> <p>LOWER PAPER GUIDE BR30-0040</p> <p>SCREW, 4-40 X 1/4 SEMS SC54-0027, 4 IN TOTAL 2 EACH SIDE</p> <p>NOTE: FOR EXTREMA PRINTERS INSTALL THIS SCREW AT STEP 8</p> <p>4. CARD GUIDES ASSEMBLY      i) ATTACH LOWER GUIDE TO UPPER GUIDE      ii) ATTACH GUIDES TO CHASSIS      iii) ATTACH SENSOR CABLE</p>
9. Step 4 DETAIL F	<p>SPROCKET, 32-24 3/16" SR20-0001</p> <p>BUSHING, BLACK BG10-0003</p> <p>SHAFT, 10LER SH10-0008-01</p> <p>GEAR, 48 PITCH 22 TEETH, 3/16 BORE CE84-0002</p> <p>BUSHING, WHITE BG10-0002</p> <p>DETAIL 'F'</p>

Figure 1-9

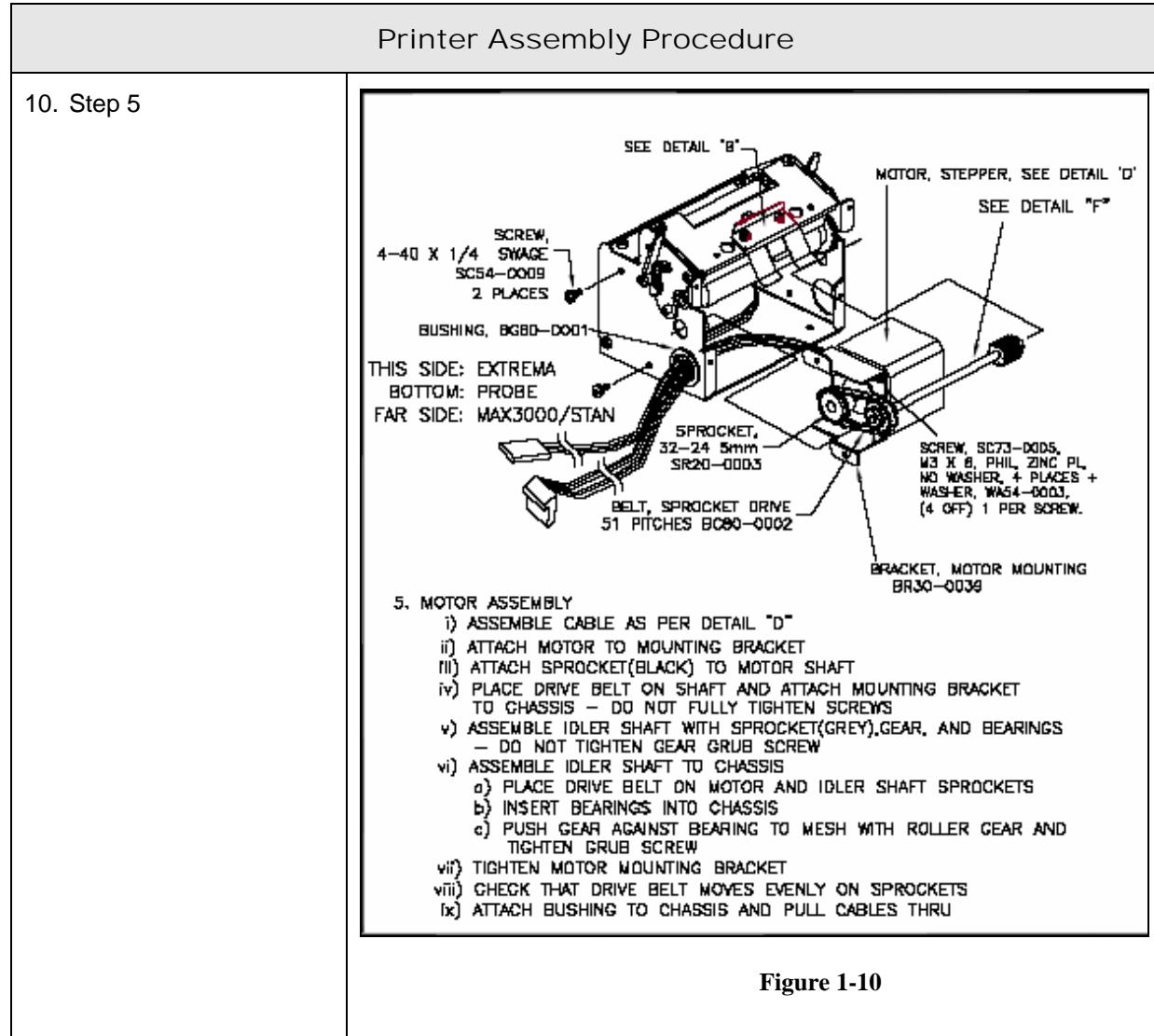
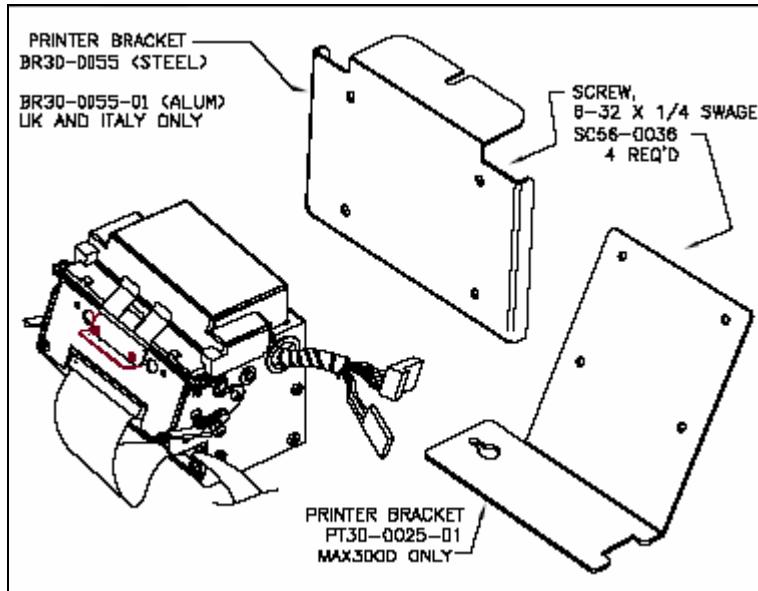
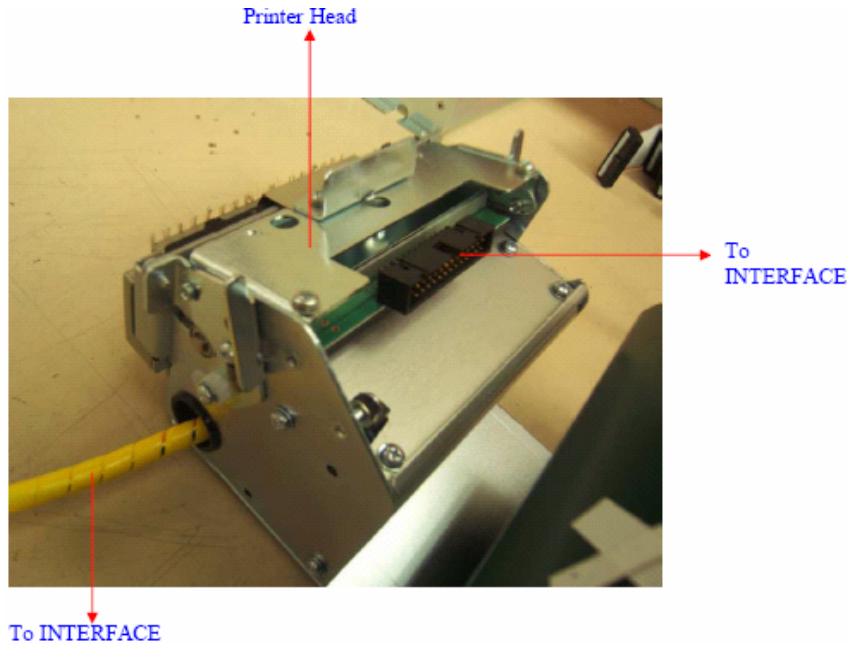


Figure 1-10

Printer Assembly Procedure	
11. Steps 6 and 7	<p>6. CUTTER ASSEMBLY</p> <ul style="list-style-type: none"> <li>i) ATTACH PAPER GUIDE TO CUTTER WITH APPROVED ADHESIVE</li> <li>ii) ATTACH CUTTER TO CHASSIS</li> <li>iii) CUTTER CABLE EXITS CHASSIS WITH OTHER CABLES, EXCEPT FOR PROBE PRINTER WHICH REQUIRES CABLE EXTERNAL TO CHASSIS</li> <li>iv) ATTACH SPIRAL WRAP TO CABLES</li> </ul> <p>7. ATTACH CABLE CA20-002B AND SECURE WITH CLAMP CL60-0001, AS SHOWN, USING GUIDE PLATE MOUNTING SCREW</p>
12. Step 7 continued	<p>CABLE CLAMP CL60-0003</p> <p>REMOVE WIRE WRAP BELOW CABLE CLAMP TO ALLOW CABLES TO REST FLAT AGAINST PRINTER</p> <p>SCREW, SC54-0027 4-40 X 1/4 SEMS</p> <p>STAN ONLY PRINTER WIRING</p>

Printer Assembly Procedure	
13. Step 7 continued	 <p>PRINTER BRACKET BR3D-0055 &lt;STEEL&gt; BR30-0055-01 &lt;ALUM&gt; UK AND ITALY ONLY</p> <p>SCREW, 8-32 X 1/4 SWAGE SC58-0036 4 REQ'D</p> <p>PRINTER BRACKET PT3D-0025-01 MAX3000 ONLY</p>
14. Completed printer assembly	 <p>Printer Head</p> <p>To INTERFACE</p> <p>To INTERFACE</p>

This completes the Printer Assembly Procedure.

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## CHAPTER 2

# MAGNETIC CARD READER ASSEMBLY

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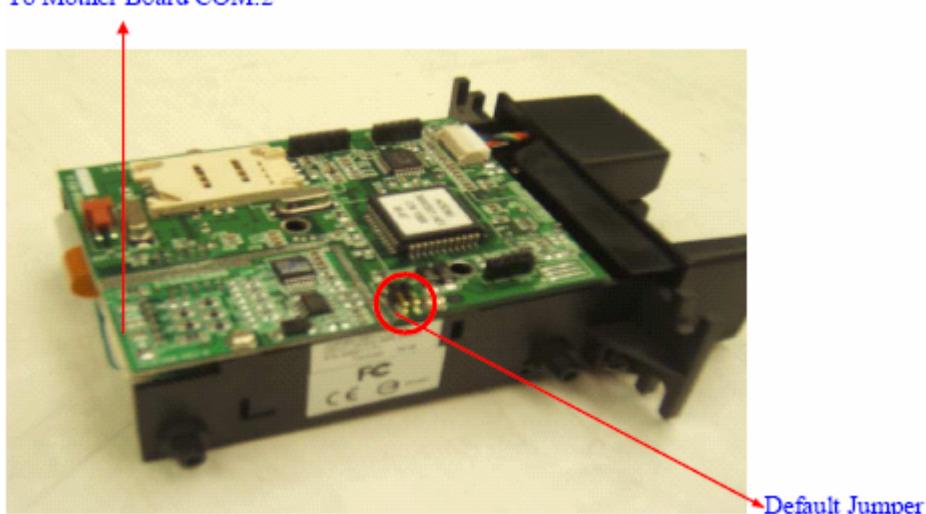
### Magnetic Card Reader Assembly Parts List

The following parts are required to complete the Magnetic Card Reader Assembly:

PART NUMBER	QTY	DESCRIPTION
CA05-0261	1	ASSY, CABLE (DISCRETE),STAN,MAG/SMART CARD RDR TO INT BD
SC56-0057	2	SCREW,6-32 X 5/16 SEM
BR30-0147	1	BRACKET (SHEET-FAB),PRINTER,SCANNER,MOUNT,STAN,LWR DWR

## Magnetic Card Reader Assembly Procedure

Perform the following steps to assemble the STAN Magnetic Card Reader Assembly:

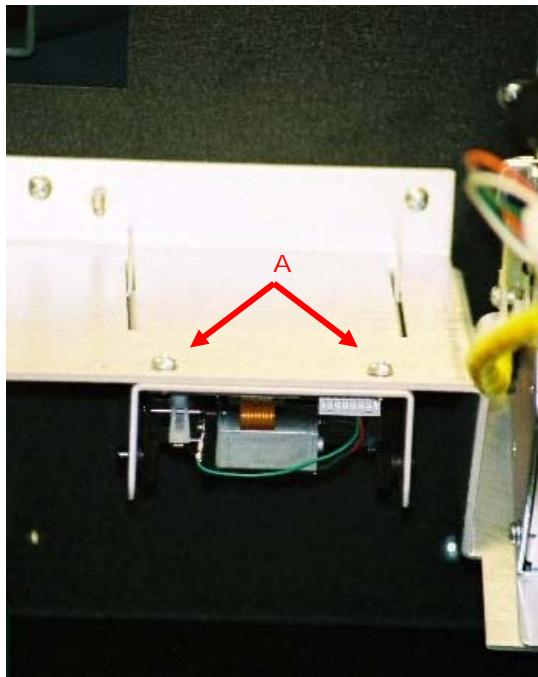
Magnetic Card Reader Assembly Procedure	
<p>1. The Card Reader is connected to the STAN by cable CA05-0261 to jack 38 (Comm 2) on the Interface board.</p>	
<p>2. Figure 2-2 shows the location of the default jumper to reset to factory settings and the location of the interface connection.</p>	<p>To Mother Board COM:2</p>  <p>Default Jumper</p>

Magnetic Card Reader Assembly Procedure	
<p>3. As illustrated in Figure 2-3, attach the Read Head to the Magnetic Card Bracket <b>A</b>.</p>	
<p>4. Select two (2) 6-32 x 5/16 screws (P/N SC56-0057).</p> <p>5. Attach the Assembly to the underside of the Printer Scanner Mount Bracket (P/N BR30-0147).</p> <p>6. Slide it into position as illustrated in Figure 2-4 <b>A</b>. The holes will line up if the assembly is correctly positioned.</p>	

### Magnetic Card Reader Assembly Procedure

7. Attach securely with the two (2) SC56-0057 Screws.  
Refer to Figure 2-5 **A**.

This assembly is replaced as a unit upon failure. To remove the Magnetic Card Reader, perform these steps in reverse order.



**Figure 2-5**

This completes the Card Reader Assembly Process. After the Card Reader Assembly is replaced, perform the Configuration Procedure.

## Magnetic Card Reader Configuration Procedure

Perform the following steps to configure the STAN Magnetic Card Reader Assembly:

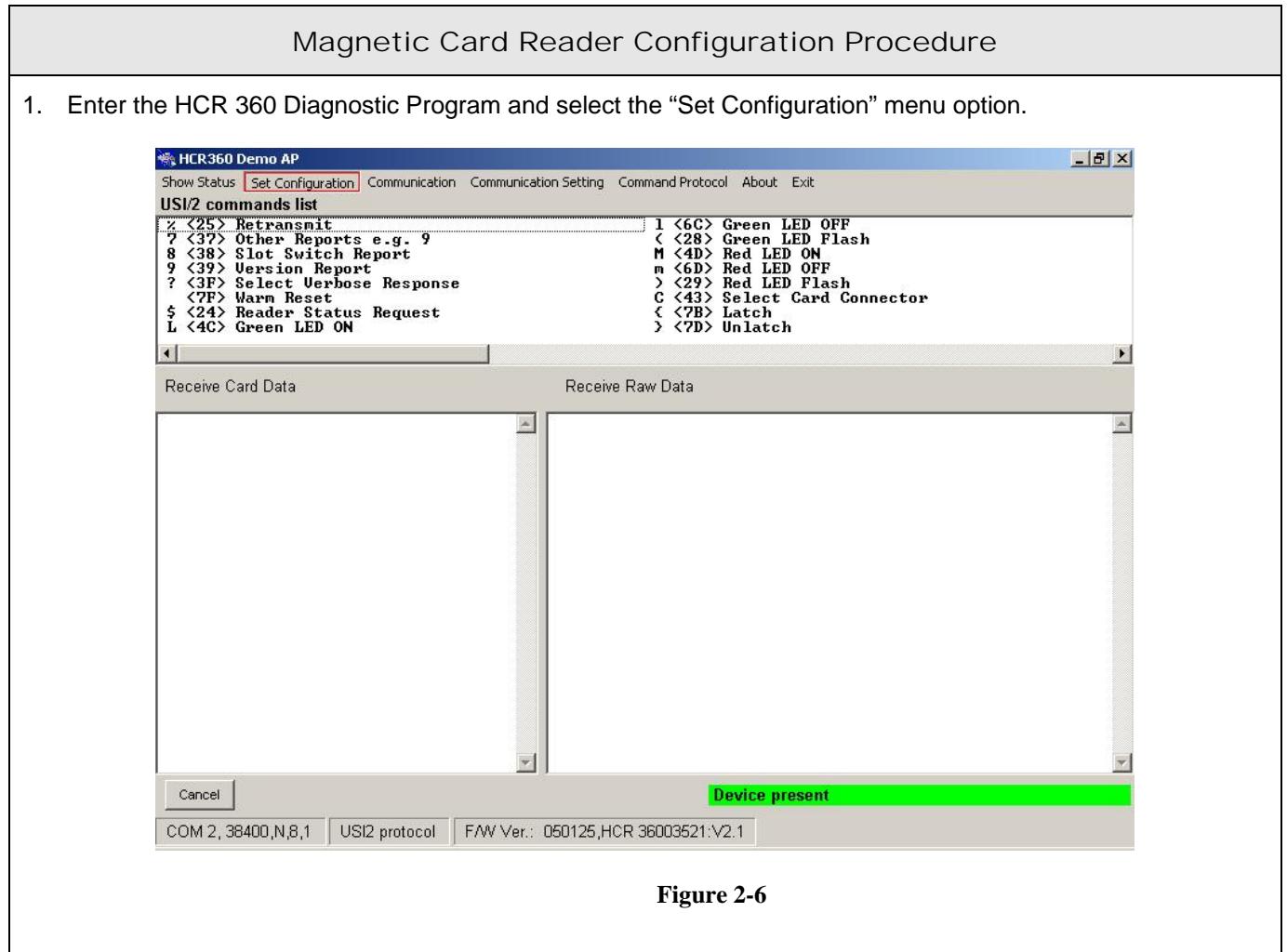
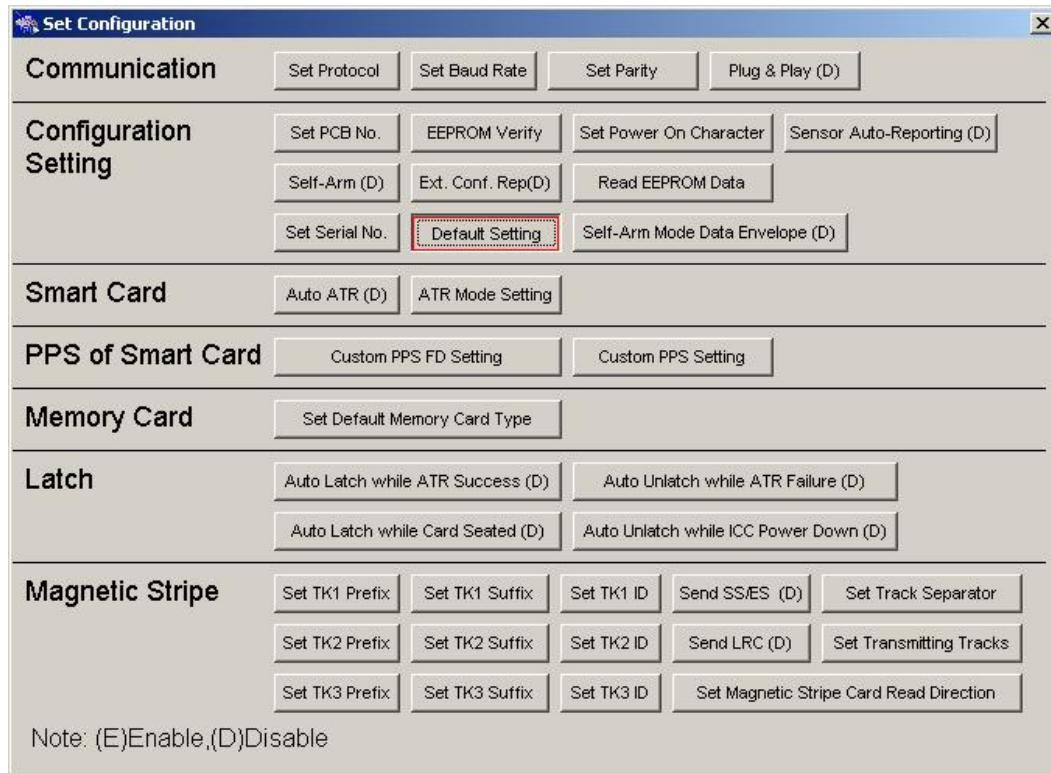


Figure 2-6

## Magnetic Card Reader Configuration Procedure

2. On the **Set Configuration** screen, select [Default Setting].

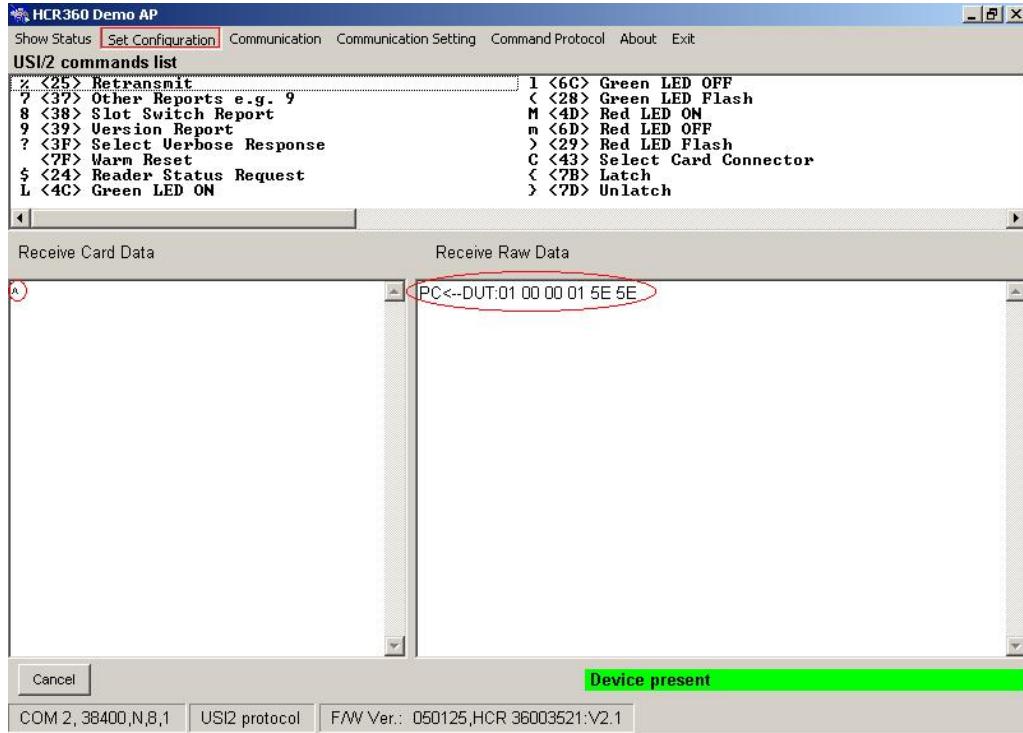


**Figure 2-7**

## Magnetic Card Reader Configuration Procedure

3. Close the **Set Configuration** screen and verify the “Acknowledge” string (01 00 00 01 5E 5E) as shown; reselect “Set Configuration”.

*NOTE: It is necessary to close the **Set Configuration** screen for the states to update properly in the next step.*

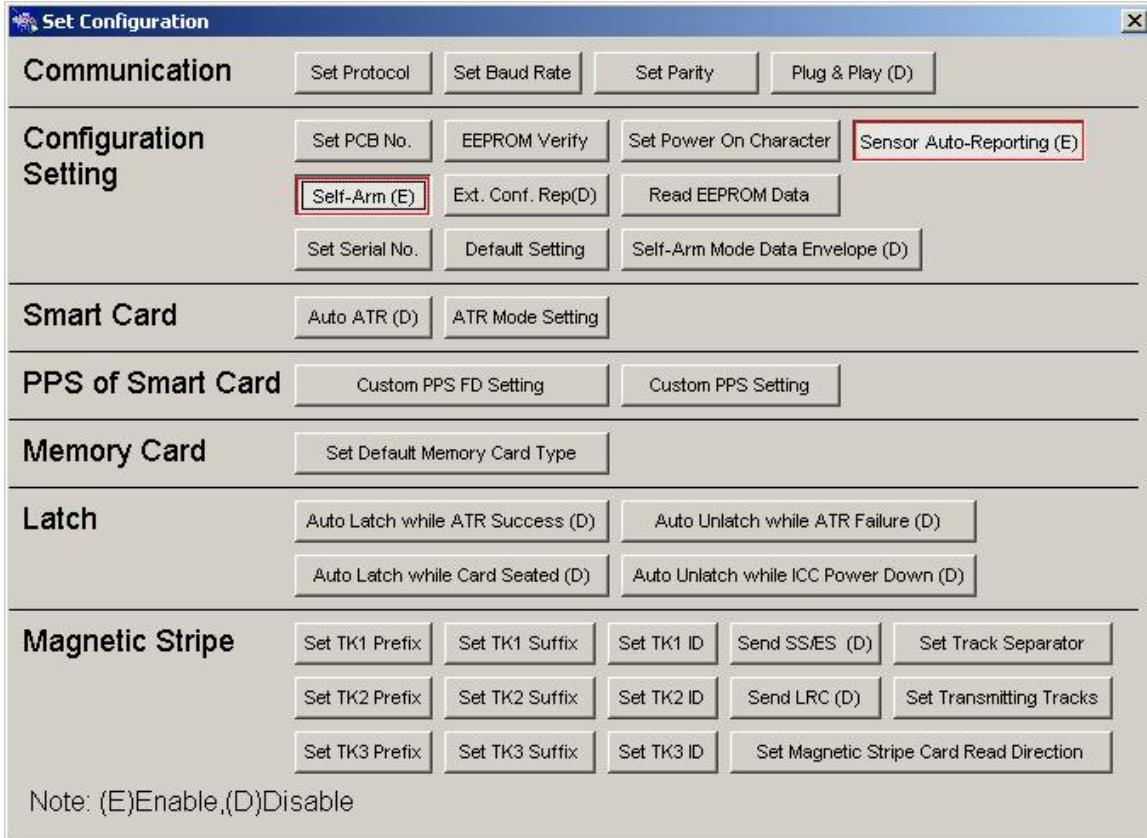


**Figure 2-8**

## Magnetic Card Reader Configuration Procedure

4. After reopening the **Set Configuration** screen, all “buttons” should be deselected. Select:

- [Sensor Auto-Reporting]
- [Self-Arm]



**Figure 2-9**

## Magnetic Card Reader Configuration Procedure

5. Close the **Set Configuration** screen. Verify that two and only two additional commands were acknowledged with the same response as shown below (01 00 00 01 5E 5E).

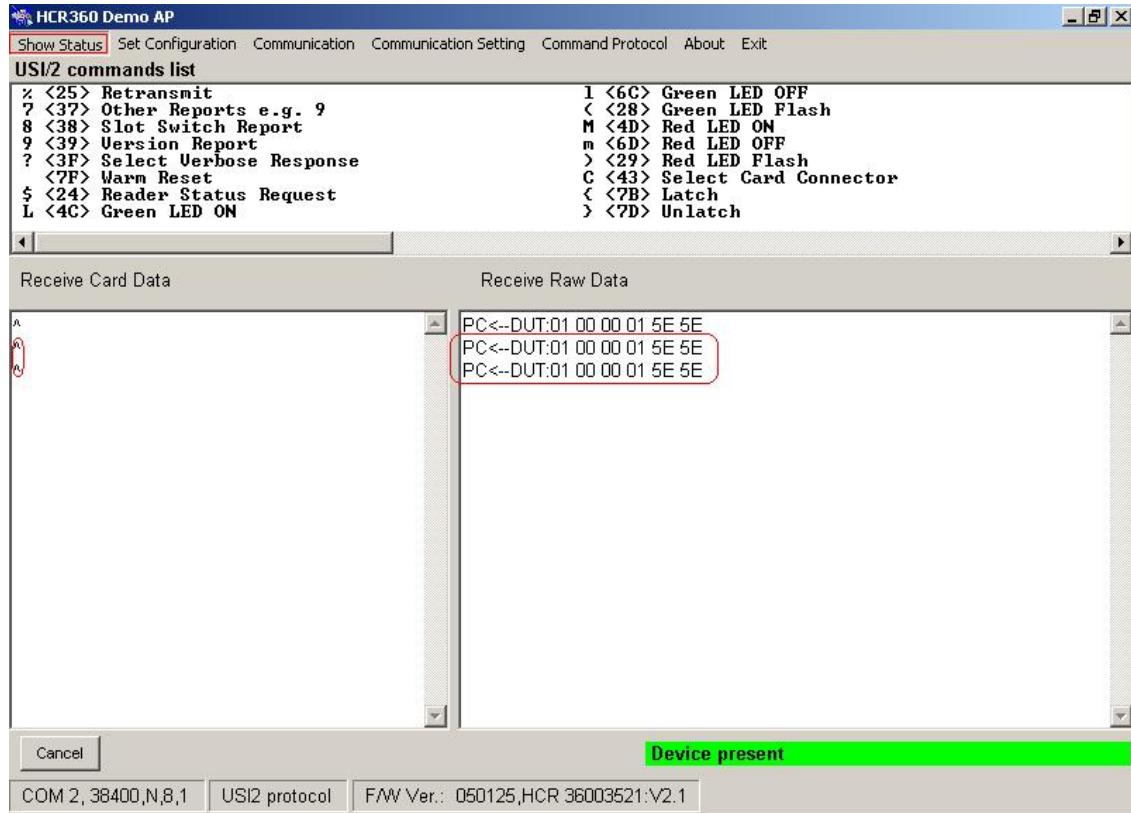


Figure 2-10

## Magnetic Card Reader Configuration Procedure

6. Select the menu option “Show Status”.
7. Verify the settings on the Status screen match Figure 2-11.

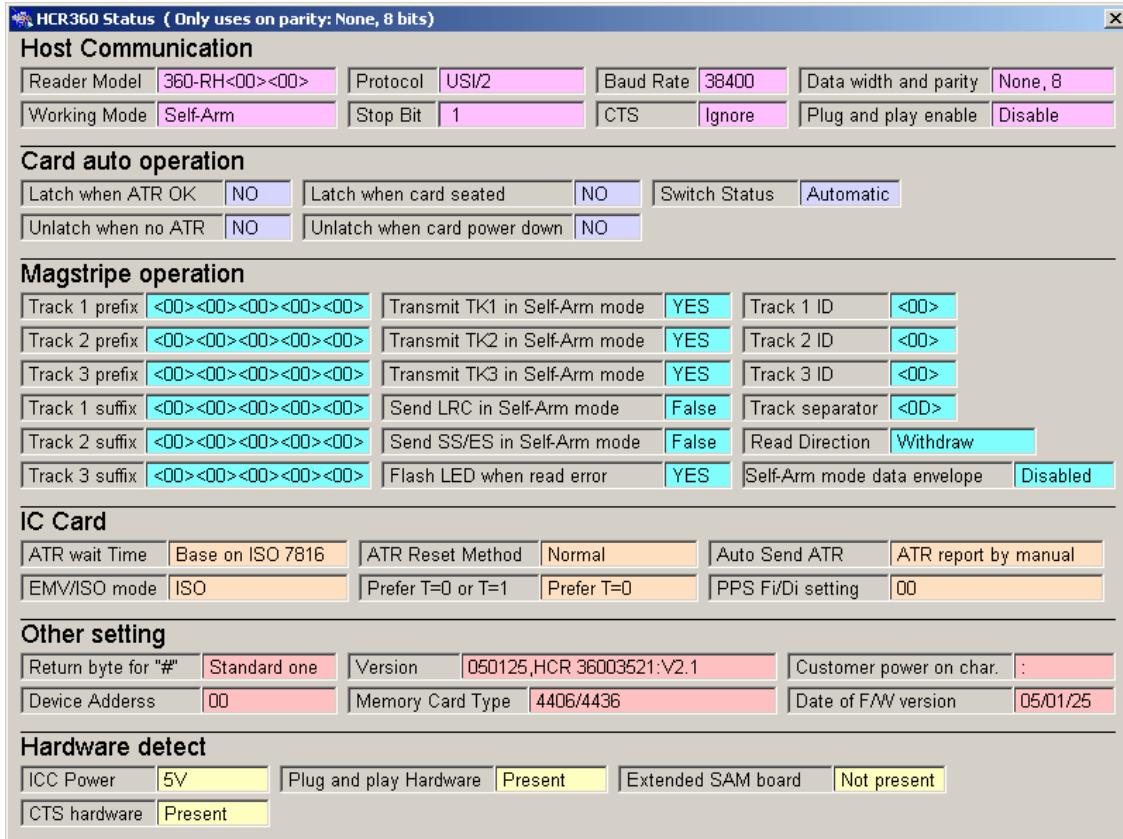


Figure 2-11

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# CHAPTER 3

## STAN DISPLAY ASSEMBLY

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### Display Assembly Parts List

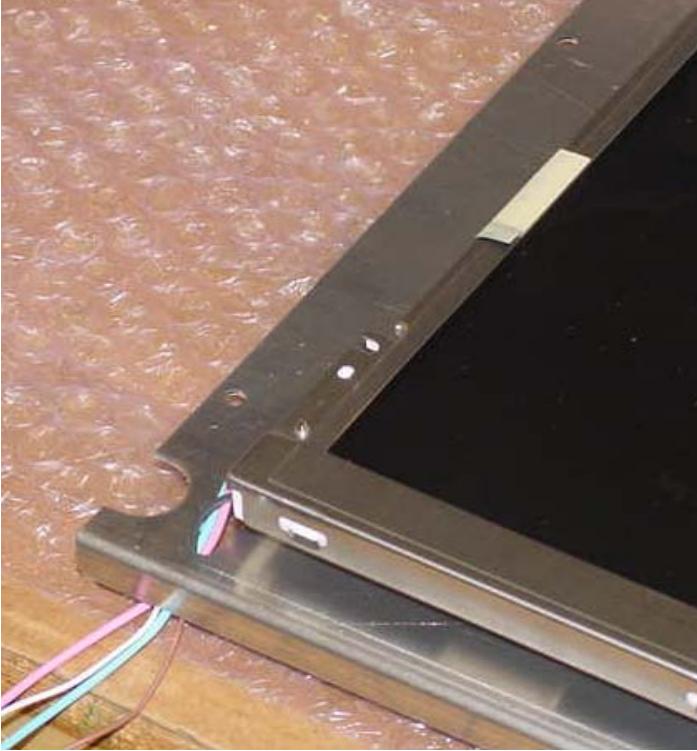
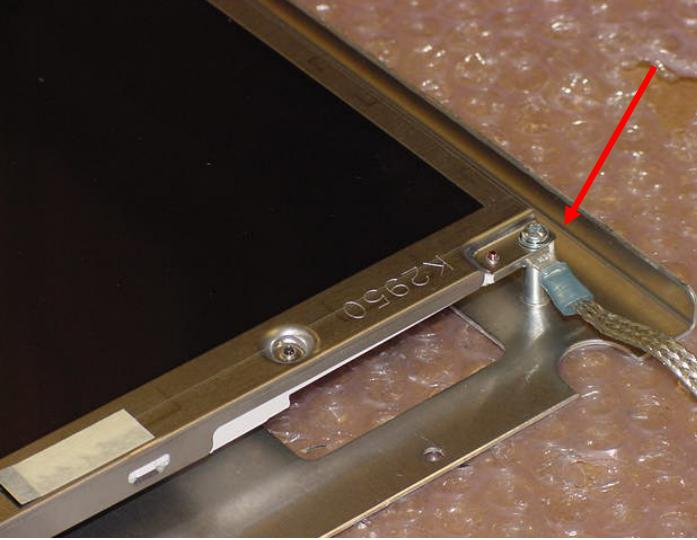
The following parts are required to complete the Display Assembly:

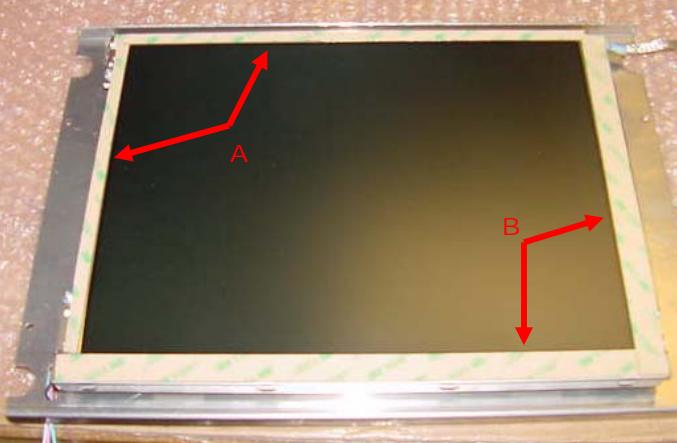
PART NUMBER	QTY	DESCRIPTION
AD60-0004	5	TAPE, ADHESIVE, VHB, DBL SIDE, 1/4 IN X .010 IN
BL70-0020	1	BALLAST, BACKLIGHT INVERTER, LXM 1623-12-61, MICRO SEMI
BR30-0152	1	BRACKET (SHEET-FAB), STAN DISPLAY MT.
BZ20-0006-13	1	BEZEL (MOLDED) STAN TOP, PMS 116C
CA05-0263	1	ASSY, CABLE (DISCRETE),STAN,NEC DISPLAY
CA05-0266	1	ASSY, CABLE (DISCRETE), ICELAND STAN TOUCH SCREEN
CA40-0004	2	ASSY, CABLE (CUSTOM), STAN GROUND, LONG
DM55-0018	1	DISPLAY, LCD COLOR, LG PHILLIPS 12.1, SVG AFT LCD
HU20-0021-05	1	HOUSING (MOLDED), STAN DISPLAY FRONT, PMS 432C
HU20-0022-05	1	HOUSING (MOLDED), STAN DISPLAY BACK, PMS432C
SC54-0021	2	SCREW, #4 -40 X 3/8 SEM PPH
SC56-0009	4	SCREW, #6-32 X 3/8IN, INTERNAL SEM PPH
SC56-0037	2	SCREW, #6-32 X 7/8 PHIL PAN HD, ZINC PL
SG10-0002	2	SPRING (CUSTOM), COMPRESSION, MUSIC WIRE, STAN DISPLAY PIVOT
SP60-3603	4	SPACER,UNTHREADED,7/16 X 3/8 X .218
TS70-0009	1	TOUCHSCREEN, FLAT-PANEL, 12.1, .062IN, RES, W/HARDENED GLASS
TW60-0001	1	TIE WRAP, NYLON, 3.9IN, .10 IN WIDTH, .87 IN MAX DIA
TW60-0002	1	TIE WRAP, NYLON, 7.9IN, .19 WIDTH, 1.75 MAX DIA
WA90-0004	2	WASHER, NYLON, OD.312/ID.187/HD.140IN X THK.094/SHLDR.062IN
WA90-0005	2	WASHER, NYLON, OD.500/ID.375/HD.145IN X THK.094/SHLDR.063IN

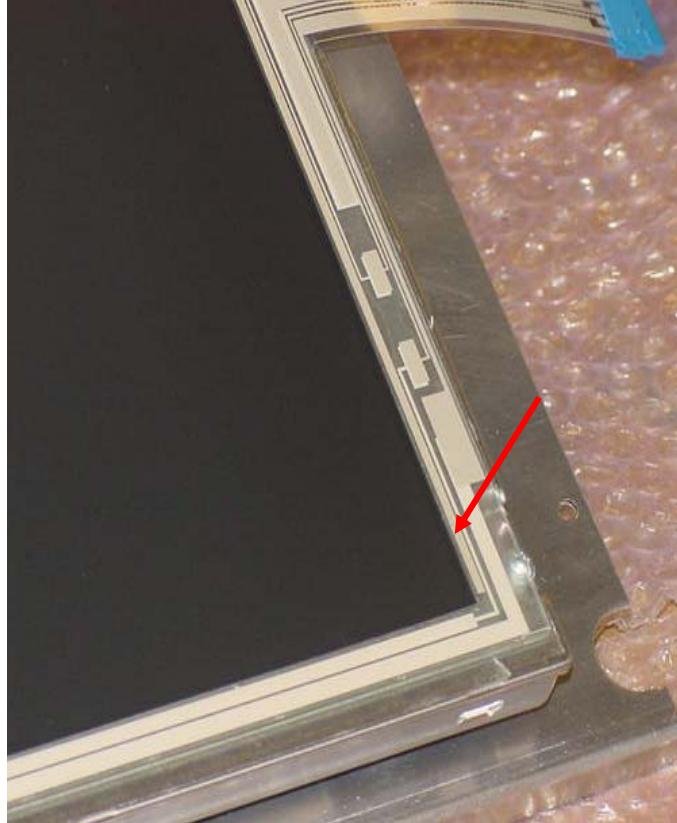
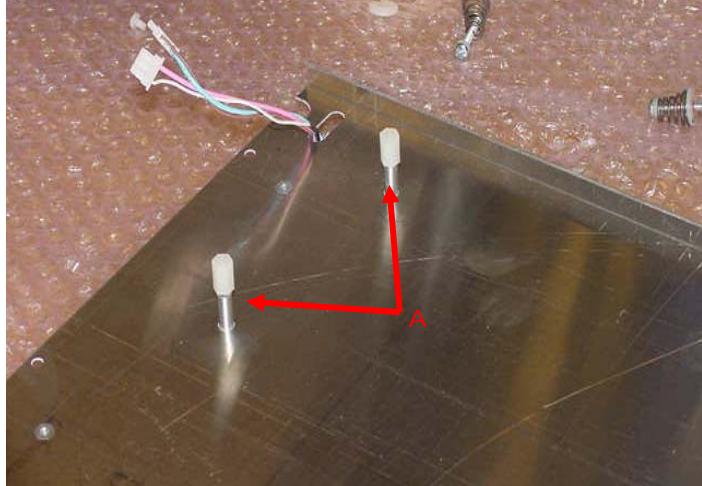
## Display Assembly Procedure

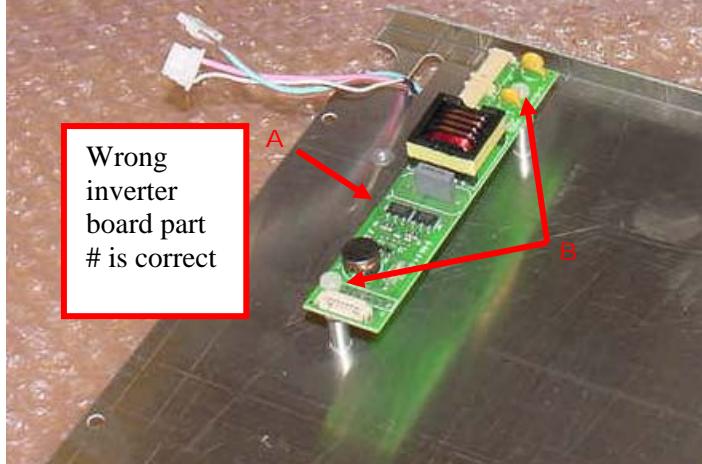
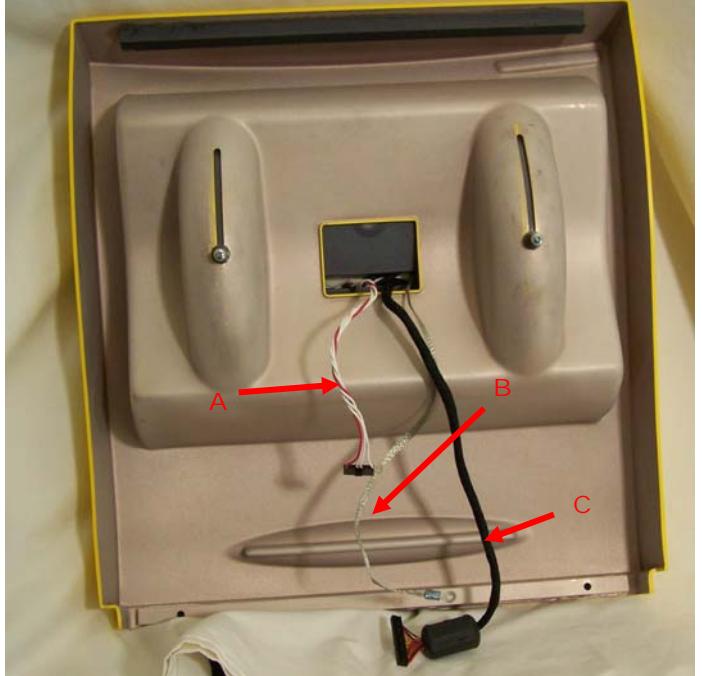
Perform the following steps to assemble the STAN Display Assembly:

Display Assembly Procedure	
1. Install two (2) LONG SCREWS in the holes as shown in Figure 3-1.	
2. Place Display (P/N DM55-0018) onto frame.	

Display Assembly Procedure	
<p>3. Route wires through hole in frame as shown in Figure 3-3. Remove the protective plastic covering from the Display and save it for use in Step 10.</p>	
<p>4. Place the Electrical Ground Strap (P/N CA40-0004) onto the post of the frame and secure with one (1) screw (P/N SC54-0015) as shown in Figure 3-4.</p>	

Display Assembly Procedure	
5. Install three (3) screws (P/N SC54-0015) to mount Display to frame.	
6. Refer to Figure 3-6. Place strips of thin tape (P/N AD60-0004) on all four sides of Display <b>A</b> and <b>B</b> .  7. Although Figure 3-6 shows a wider tape used on two (2) sides <b>B</b> ; the thinner tape as shown <b>A</b> should be used on all four (4) sides.  <i>NOTE: Remove backing from tape with needle nose pliers.</i>	
8. Select a Touch Screen (P/N TS70-0009) and orient as shown in Figure 3-7. Use the right side of where the black portion of the Display meets the metal of display frame as a reference.	

Display Assembly Procedure	
<p>9. Align the innermost grey line of the Touch Screen using the reference in the previous step. Press the Touch Screen to the double sided tape on the display frame. See Figure 3-8.</p>	
<p>10. Place Mylar from Step 3 onto the Touch screen to protect it and place the assembly as shown in Figure 3-9. Place two (2) spacers (P/N SP60-3603) as shown <b>A</b> onto the screws coming out of the posts.</p>	

Display Assembly Procedure	
<p>11. Place Inverter Board (P/N BL70-0020) on to posts as shown in Figure 3-10 <b>A</b>. Secure with two (2) screws as shown in Figure 3-10 <b>B</b>.</p>	 <p>Wrong inverter board part # is correct</p> <p>A</p> <p>B</p>
<p>12. Figure 3-11 shows the Display mounted in the housing. The three cables are:</p> <p><b>A</b> Touch Screen <b>B</b> Ground <b>C</b> Video</p>	 <p>A</p> <p>B</p> <p>C</p>

This completes the Display Assembly Procedure. After the Display Assembly is replaced, perform the Configuration Procedure.

## Display Configuration Procedure

Perform the following steps to configure the STAN Display Assembly:

### Display Configuration Procedure

1. Attach a keyboard to the STAN in order to access diagnostic functions.
2. Press [Home] on the keyboard.
3. Touch [EXTERNAL DIAGS] on the touch screen and touch [YES].
4. The **StanXP** window displays.

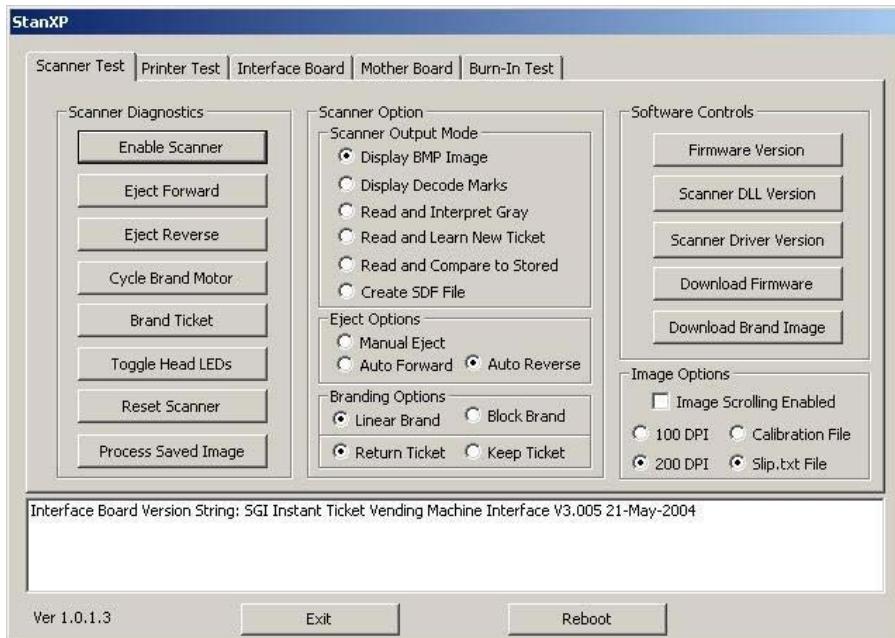
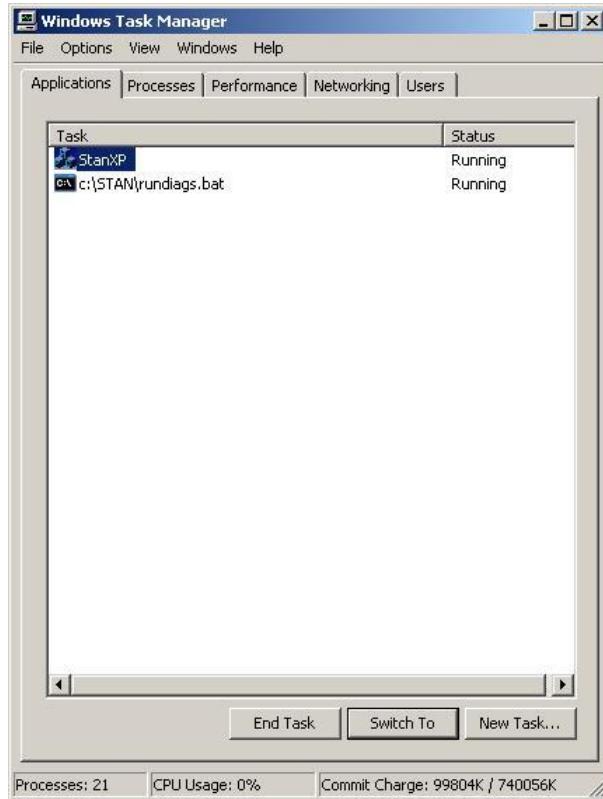


Figure 3-12

## Display Configuration Procedure

5. Press [Ctrl] [Alt] [Delete] and select [Task Manager].
6. Select [New Task...].

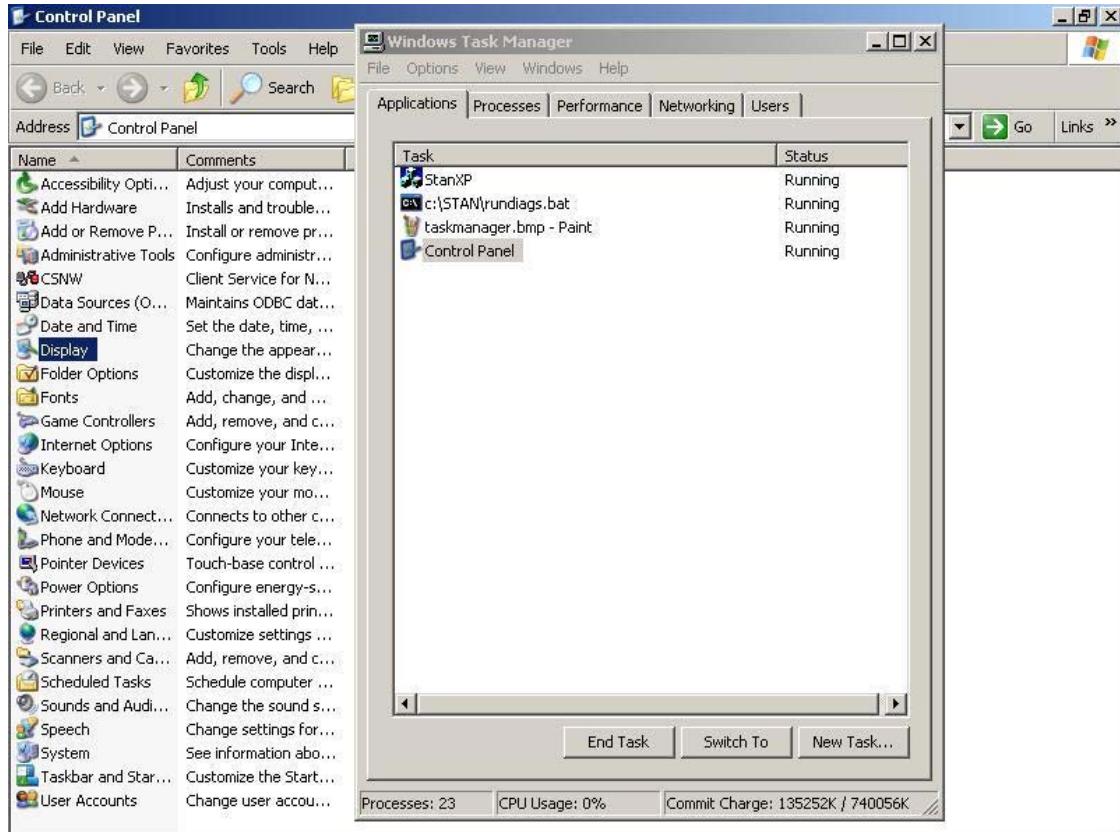


**Figure 3-13**

7. Type “control” at the prompt and then select [OK].

## Display Configuration Procedure

8. The **Control Panel** window displays.
9. Double click “Display”.



## Display Configuration Procedure

10. In the **Display Properties** window, select the tab “Settings”.

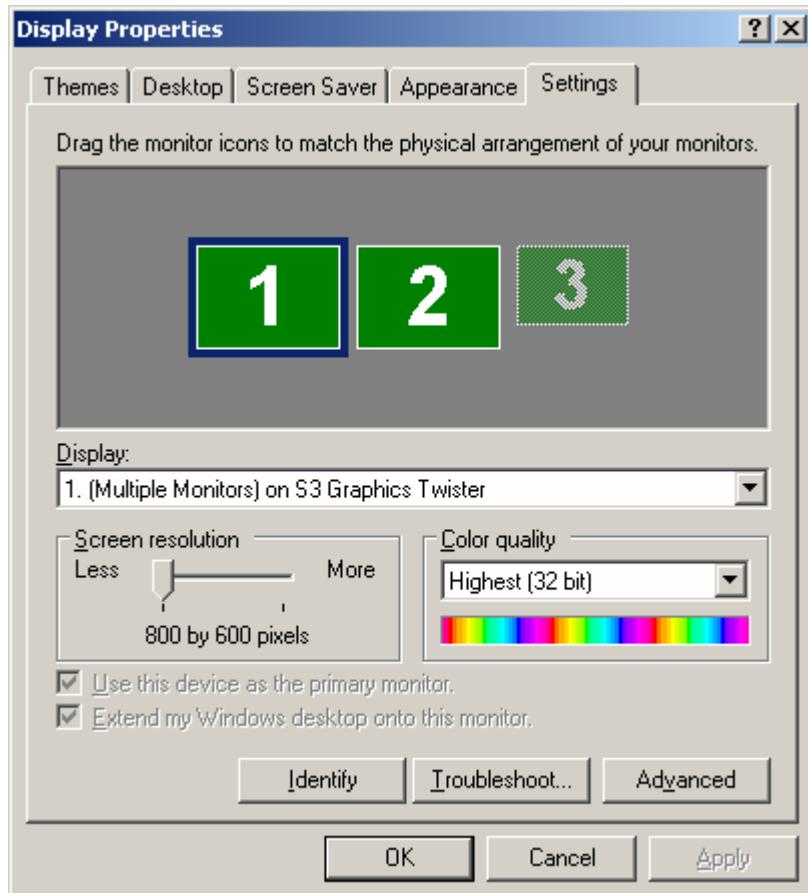


Figure 3-14

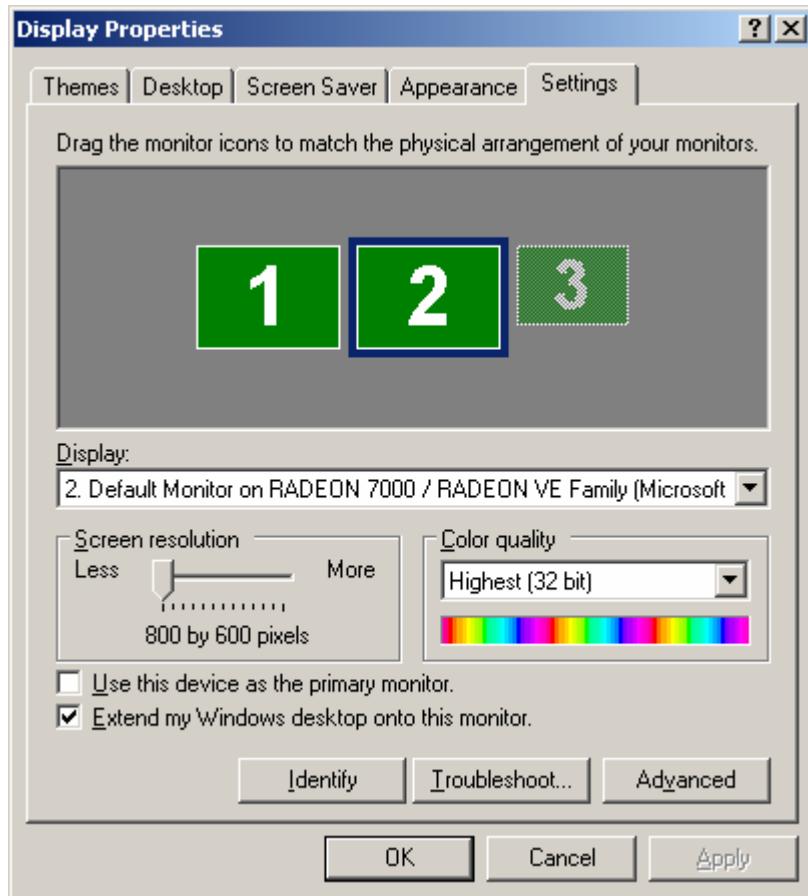
11. Verify the configuration is set for three screens (three squares numbered 1 – 3 will be displayed as above.)
12. For “Display”, select: 1. [Multiple Monitors] on S3 Graphics Twister
- OR
- Click on Box 1.
13. Set “Screen resolution”: 800 by 600 pixels
14. Set “Color quality”: Highest (32 bit)
15. Verify that both checkboxes are selected:
- Use this device as the primary monitor
  - Extend my Windows desktop onto this monitor

## Display Configuration Procedure

16. To configure the secondary monitor, set “Display” for 2. Default Monitor on RADEON 7000/RADEON VE Family (Microsoft)

OR

Click on Box 2.



**Figure 3-15**

17. For “Screen resolution” select 800x600.

18. “Color quality”: Highest (32 Bit)

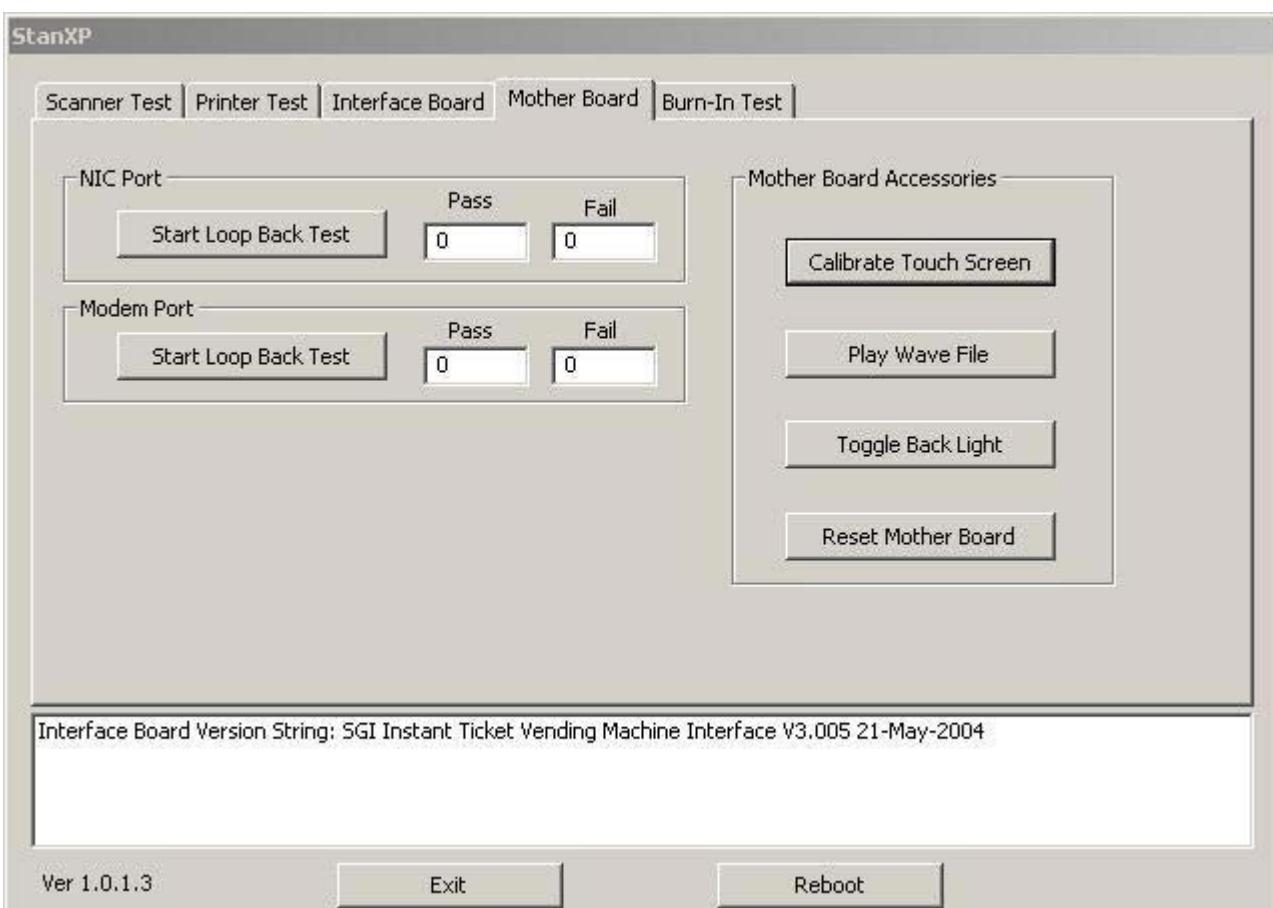
19. Verify that only the 2nd checkbox is selected:

Extend my Windows desktop onto this monitor.

This completes the Display Configuration Procedure. After the Configuration Procedure is complete, perform the Touch Screen Calibration Procedure.

## Touch Screen Calibration Procedure

Perform the following steps to calibrate the STAN Touch Screen:

Touch Screen Calibration Procedure	
<ol style="list-style-type: none"><li>1. Perform Steps 1 – 4 of the Display Configuration Procedure.</li><li>2. In the <b>StanXP</b> window, select the “Mother Board” tab.</li><li>3. Select [Calibrate Touch Screen].</li></ol>	 <p>The screenshot shows the StanXP application window. The title bar says "StanXP". Below it is a navigation bar with tabs: Scanner Test, Printer Test, Interface Board, Mother Board (which is selected and highlighted in blue), and Burn-In Test. The main area has two sections: "NIC Port" and "Modem Port", each containing a "Start Loop Back Test" button and two boxes labeled "Pass" and "Fail" with the value "0" in each. To the right is a panel titled "Mother Board Accessories" with four buttons: "Calibrate Touch Screen" (highlighted in blue), "Play Wave File", "Toggle Back Light", and "Reset Mother Board". At the bottom of the window, there is a message box displaying "Interface Board Version String: SGI Instant Ticket Vending Machine Interface V3.005 21-May-2004". At the very bottom are three buttons: "Ver 1.0.1.3", "Exit", and "Reboot".</p>
<p style="text-align: center;"><b>Figure 3-16</b></p> <ol style="list-style-type: none"><li>4. Follow the directions on the screen to complete calibration.</li><li>5. Select [Reboot] when complete.</li></ol>	

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# CHAPTER 4

## 4-INCH SCANNER ASSEMBLY

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### Scanner Assembly Parts List

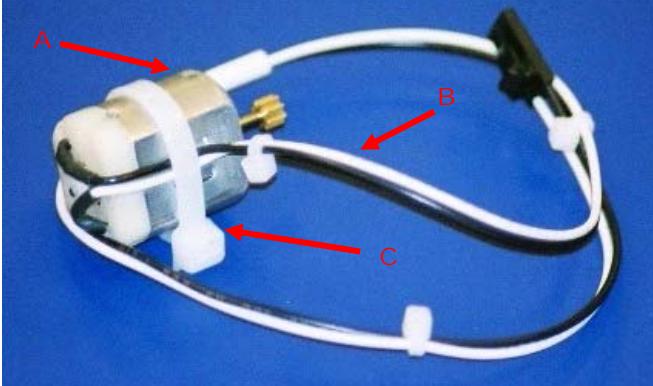
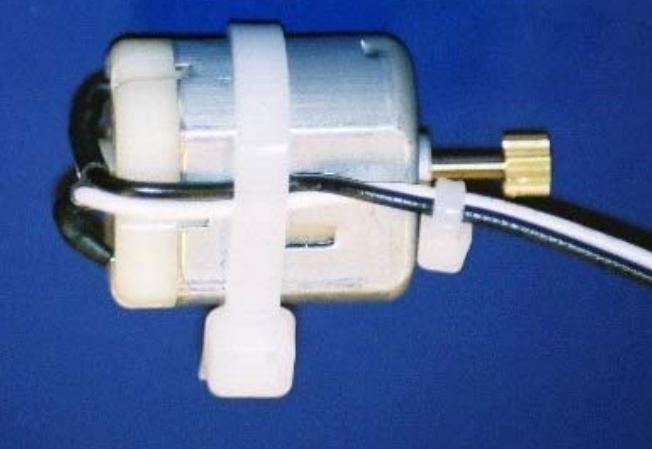
The following parts are required to assemble the Scanner:

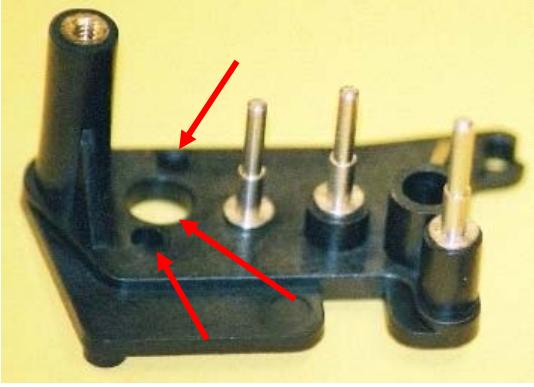
PART NUMBER	QTY	DESCRIPTION
BZ20-0017		BEZEL (MOLDED), SMALL DOC SCANNER, BLACK
CA05-0137		ASSY, CABLE (DISCRETE), SCANNER BRAND HEAD MOTOR
CA30-0004		ASSY, CABLE (FLAT FLEX), PERIPHERAL IMAGING 4 INCH CIS DATA
CH20-0001-01		CHASSIS (MOLDED), 4IN SCANNER MAIN, US
CL60-0020		CLAMP, CABLE, NYLON, SPLIT FLAT
GE24-0003	2	GEAR (MOLDED), SPUR, DELRIN, 4IN SCANNER COMPOUND
GE24-0004		GEAR (MOLDED), SPUR, DELRIN, 4IN SCANNER, W/CAM
GE24-0005	2	GEAR (MOLDED), SPUR, DELRIN, 60T 48P, 1/4 BORE, 4IN SCANNER
GU20-0023		GUIDE (MOLDED), POLYCARBONATE, 4IN SCANNER UPPER
MT45-0005		MOTOR (CUSTOM), W/CRIMP-N-POKE CONN, 8IN SCANNER
PH60-0001		PRINT HEAD, THERMAL, 96 DOT 24MM 100 DPI, SERIAL, 16.5IN
PN65-0001	2	PIN, DOWEL, SS, OD1/8IN X 3/8IN
PT20-0004-L		PLATE (MOLDED), POLYCARB, 4IN SCANNER BRANDER GEARING, LEFT
PT20-0004-R		PLATE (MOLDED), POLYCARB, 4IN SCANNER BRANDER GEARING, RIGHT
PT20-0005		PLATE (MOLDED), DELRIN, 4IN SCANNER PRINthead SUPPORT
PT30-0040	2	PLATE (SHEET-FAB), CRS, 8IN SCANNER MAGNET LATCHING
PT60-0002	4	PLATE, BARIUM FERRITE, MAGNET W/CENTER HOLE
PT60-0003	4	PLATE, ZINC PLATED STEEL, MAGNET POLE PIECE W/CENTER HOLE
RH65-0009		READ HEAD, OPTICAL, ANALOG, 88MM, 200DPI, +5V
RL10-0017	2	ROLLER (MACHINED), NITRILE, 4IN SCANNER DRIVE
RL10-0018	2	ROLLER (MACHINED), DELRIN, 4IN SCANNER PRESSURE
RR60-0007	2	E-RING, STEEL, 1/4IN SHAFT
RR90-0006	2	RING, RETAINING, CIRCULAR PUSH-ON
SC52-0008		SCREW, #2 X 1/4, PFH SHEETMETAL, SS

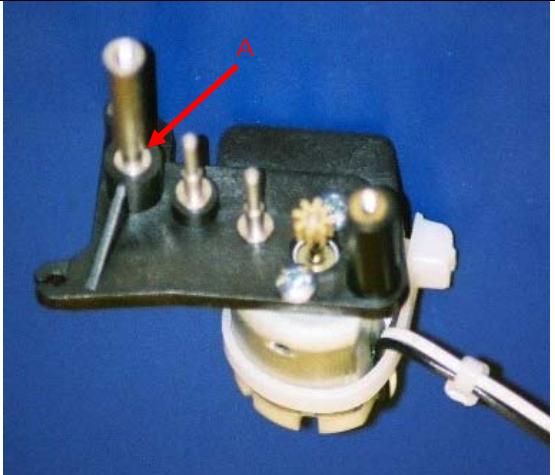
PART NUMBER	QTY	DESCRIPTION
SC54-0009	9	SCREW, #4-40 X 1/4 TYPE SWAGEFORM PHILLIPS PAN HD, ZINC
SC54-0027	2	SCREW, #4-40 X 1/4 IN PPH SEM
SC54-0047		SCREW, #4-20 X 1/4, PFH HI-LO, ZINC PL
SC56-0006	2	SCREW, #6-32 X 3/16IN, HEX SOCKET, BLACK OXIDE, CUP PT, SET
SC56-0007	2	SCREW, #6-19 X 3/8 PHIL HD BLUNT PT STEEL ZINC PL TY PE H-L
SG20-0004	2	SPRING (CUSTOM), EXTENSION, MUSIC WIRE, 4IN SCANNER BRANDER
SG40-0007	2	SPRING (CUSTOM), MW, 4IN SCANNER PRESSURE ROLLER
SG60-0007	2	SPRING, COMPRESSION
SH10-0018		SHAFT (MACHINED), SS, 4IN SCANNER BRANDER CAM
TW60-0002		TIE WRAP, NYLON, 7.9IN, .19 WIDTH, 1.75 MAX DIA
WA56-0007	2	WASHER, #6 .375 O.D. X .156 I.D. X .049 THK, TYPE A PLAIN
WA90-0013	2	WASHER, THRUST ID.255 X OD.375 X .005THK, STAINLESS STL
	2	MYLAR STRIPS

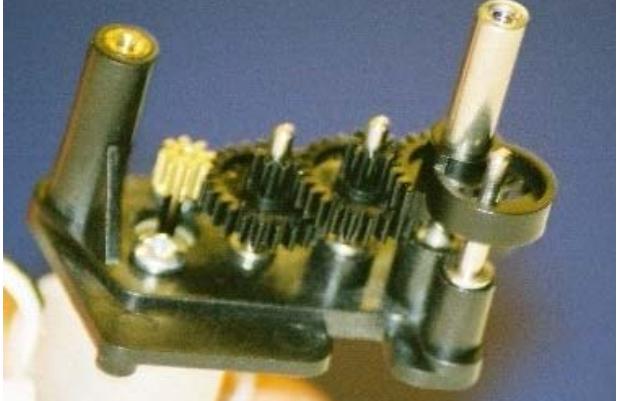
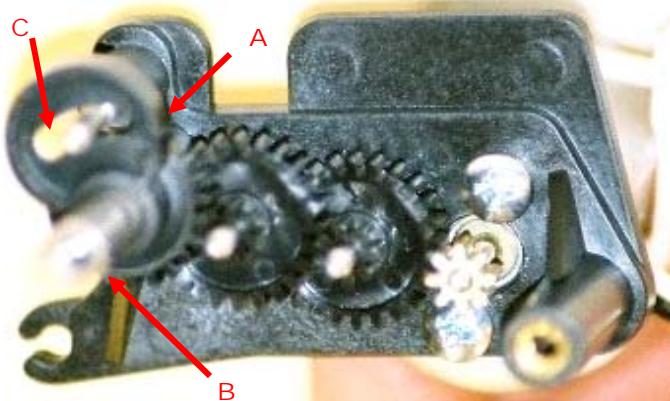
## Scanner Assembly Procedure

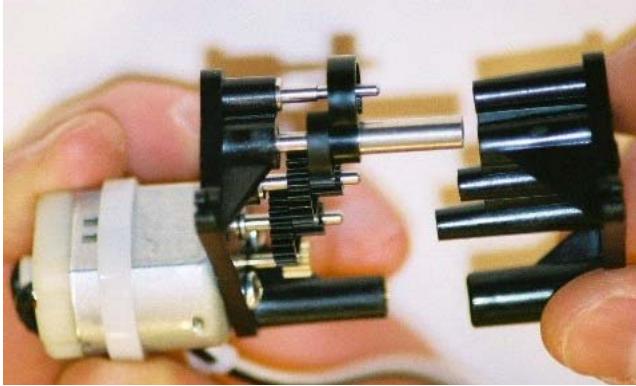
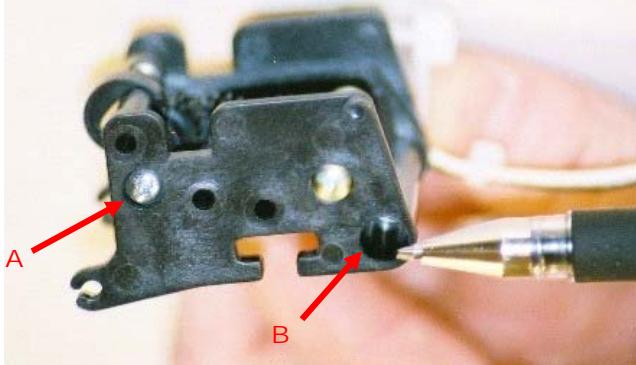
Perform the following steps to assemble the STAN Scanner:

Scanner Assembly Procedure	
1. Refer to Figure 4-1. Select:  <b>A</b> Scanner Motor (P/N MT45-0005)  <b>B</b> Scanner Brand Head Motor Cable (P/N CA05-0137)  <b>C</b> Tie Wrap (P/N TW60-0002)	
2. Wrap the Scanner Brand Head Motor Cable to the underside of the Motor and secure in place with the Tie Wrap.	

Scanner Assembly Procedure	
3. Select a Left Scanner Brander Gearing Plate (P/N PT20-004-L). Note the three (3) open holes on the Brander Plate as shown in Figure 4-3.	
4. Route the Motor Shaft through the large center hole. Position the motor to align with the screw holes. The tie wrap cable should be positioned as shown. Secure the Motor to the Brander Gearing Plate using two (2) #4-40X1/4 screws (P/N SC54-0009)	
5. Select a Scanner Brander Cam Shaft (P/N SH10-0018).	

Scanner Assembly Procedure	
6. Insert the side of the Cam Shaft with the indentation onto the open hole on the Left Scanner Brander Gearing Plate (indentation facing down). See Figure 4-6 A.	
7. Select two (2) Delrin Spur Gears (P/N GE24-0003).	
8. Select one (1) Delrin Spur Gear (P/N GE24-0004).	

Scanner Assembly Procedure	
9. Refer to Figure 4-9. Place one of the Gears (P/N GE24-0003) on one of the short pins on the Left Scanner Brander Gearing Plate. The smaller gear section is facing upwards. Push down firmly. Take the second Gear (P/N GE24-0003) and place on the pin beside the first Gear. Push down firmly. Turn both Gears so that their teeth are properly aligned.	
10. Refer to Figure 4- 10. Take the Gear with attached cam (P/N GE24-0004) <b>A</b> . 11. Slide the segment with the large hole and teeth over the Scanner Brander Cam Shaft <b>B</b> . 12. Insert the smaller hole over the last remaining pin <b>C</b> .	
13. Select one Right Scanner Brander Gearing Plate (P/N PT20-0004-R) and three (3) #4-40 X 1/4 screws (P/N SC54-0009).	

Scanner Assembly Procedure	
<p>14. Slide the Right Plate (P/N PT20-0004-R) over the left side (including the Gears) as shown in Figure 4-12.</p> <p><i>NOTE: Make sure that all the Gears spin freely.</i></p>	
<p>15. Take two (2) screws (P/N SC54-0009) and secure the Left Plate to the Right Plate as shown in Figure 4-13 <b>A</b> and <b>B</b>.</p>	

Scanner Assembly Procedure	
16. Flip the assembly over and insert the last remaining screw.	
17. The finished assembly for Phase 1 is displayed in Figure 4-15.	

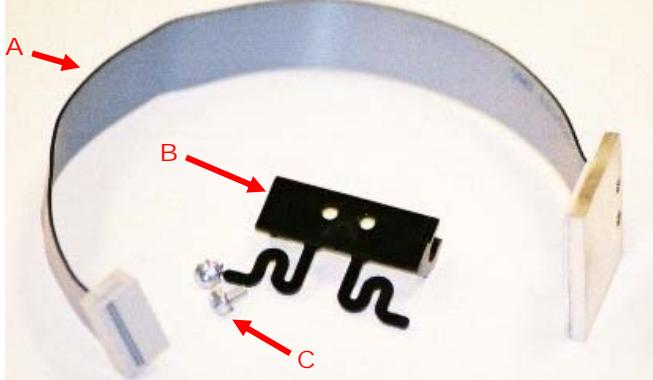
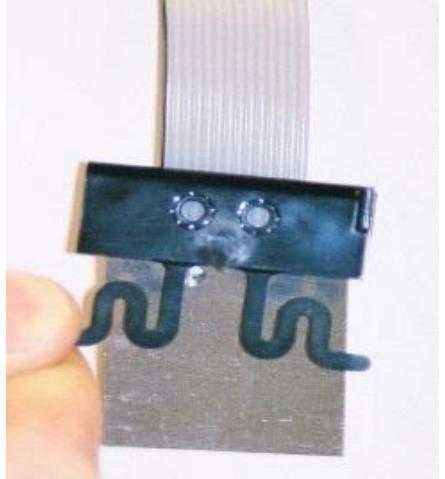
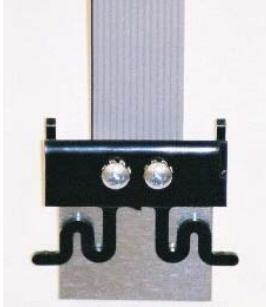
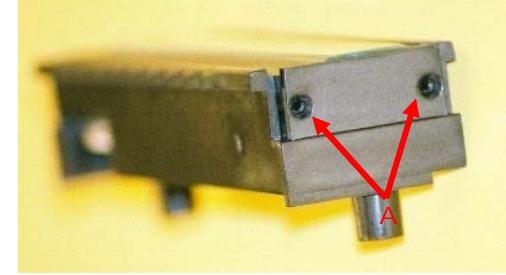
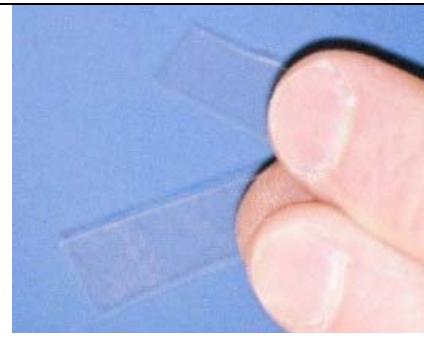
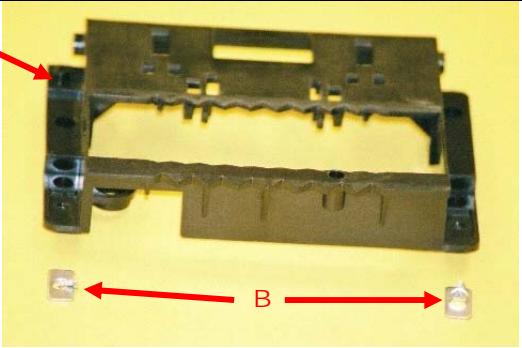
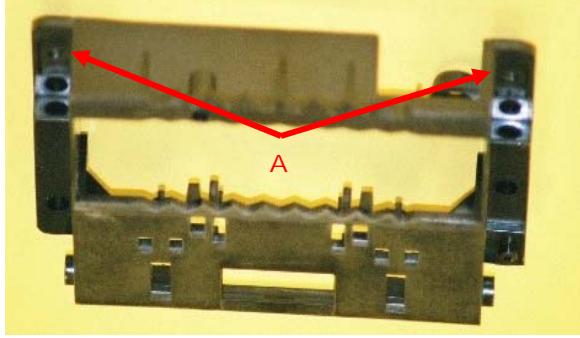
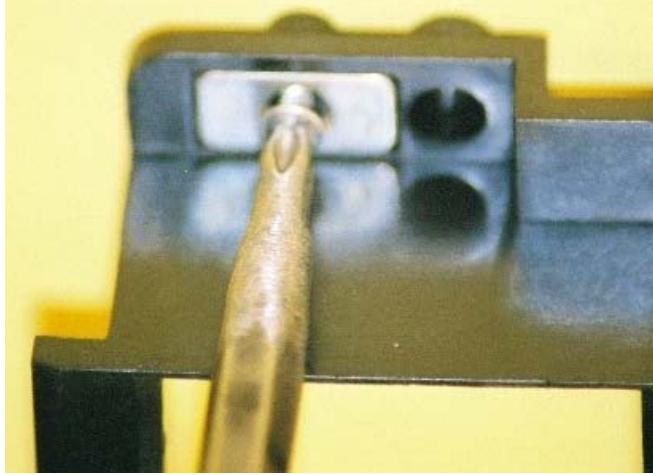
Scanner Assembly Procedure	
<p><b>Begin PHASE 2 of the Scanner Assembly:</b></p> <p>18. Refer to Figure 4-16. Select one (1) Thermal 100 DPI, Print Head (PH60-0001) <b>A</b>.</p> <p>19. Select one (1) Molded Delrin 4 Inch Scanner Print Head Support Plate (P/N PT20-0005) <b>B</b>.</p> <p>20. Select two (2) #4-40 x ¼ Inch Screws (P/N SC54-0027) <b>C</b>.</p>	
<p>21. Take the Print Head and position the silver end with the open holes facing as indicated in Figure 4-17.</p>	

Figure 4-17

Scanner Assembly Procedure	
22. Place the Support Plate (holes facing upwards) over the Print Head matching up the holes on both items. Refer Figure 4-18.	
23. Take the 2 screws and attach the Support Plate firmly to the Print Head as indicated in Figure 4-19.	
24. Select 200DPI + 5V Read Head (P/N RH65-0009) as indicated below in Figure 4-20.	
25. On the underside of the Read Head is a black sticker as indicated by the pen in Figure 4-21. Remove this sticker and discard. This will allow access to the potentiometer used to adjust the read head.	

Scanner Assembly Procedure	
26. Slide the upper side of the Read Head into the Scanhead Guide. The White Cable Connection on the Read Head (as indicated by the pen in Figure 4-22) fits through the rectangular opening on the back side of the Guide (see the arrow).	
27. Select four (4) #2 x ¼, PFH Sheet metal SS Screw (P/N SC52-0008). Screw in place on both ends of the Guide (2 screws per end). Figure 4-23 A shows the two (2) holes on the one end of the guide.	
28. Select two (2) strips of Mylar.	

Scanner Assembly Procedure		
29. Select two (2) Compression Springs (P/N SG60-0007) as illustrated in Figure 4-25.		 A photograph showing two coiled metal compression springs against a yellow background. One spring is larger and more tightly wound than the other.
30. Take the Mylar Strips and wrap around one of the back posts of the Guide. Slide a Compression Spring over both the Mylar Strip and Post.		 A photograph showing a person's fingers holding a yellow mylar strip and wrapping it around a small metal post. A compression spring is being slid onto the post and strip.
31. Repeat with the remaining Mylar Strip and Spring on the other back Post.		 A photograph of a black metal bracket or guide plate with two small metal posts and two coiled compression springs attached to it. The bracket has a wavy, serrated bottom edge.

Scanner Assembly Procedure	
<p>32. Refer to Figure 4-28. Select a Polycarbonate 4 Inch Scanner Upper Guide (P/N GU20-0023) <b>A</b>.</p> <p>33. Select two (2) CRS Scanner Magnet Latching Plates (P/N PT30-0040) <b>B</b>.</p> <p>34. Select two (2) #4-20 x ¼ Screws (P/N SC54-0047). (Not shown)</p>	
<p>35. Insert on the Upper Guide as shown in Figure 4-29 <b>A</b>.</p>	
<p>36. Insert screw as illustrated in Figure 4-30.</p>	

### Scanner Assembly Procedure

37. Select Parts as illustrated in Figure 4-31:

- A** Scanner Upper Guide (P/N GU20-0023)
- B** One (1) Nylon Split Flat Cable Clamp (P/N CL60-0020)
- C** One (1) #4-20 x ¼ Screw (P/N SC54-0047)
- D** Two (2) Custom Extension Music Wire 4Inch Scanner Brander Springs (P/N SG20-0004)
- E** Two (2) Custom MW 4 Inch Scanner Pressure Roller Springs (P/N SG40-0007)
- F** Two (2) Machined Delrin 4 Inch Scanner Pressure Rollers (P/N RL10-0018)
- G** Two (2) Dowel SS OD 1/8 Inch x 3/8 Inch Pins (P/N PN65-0001)

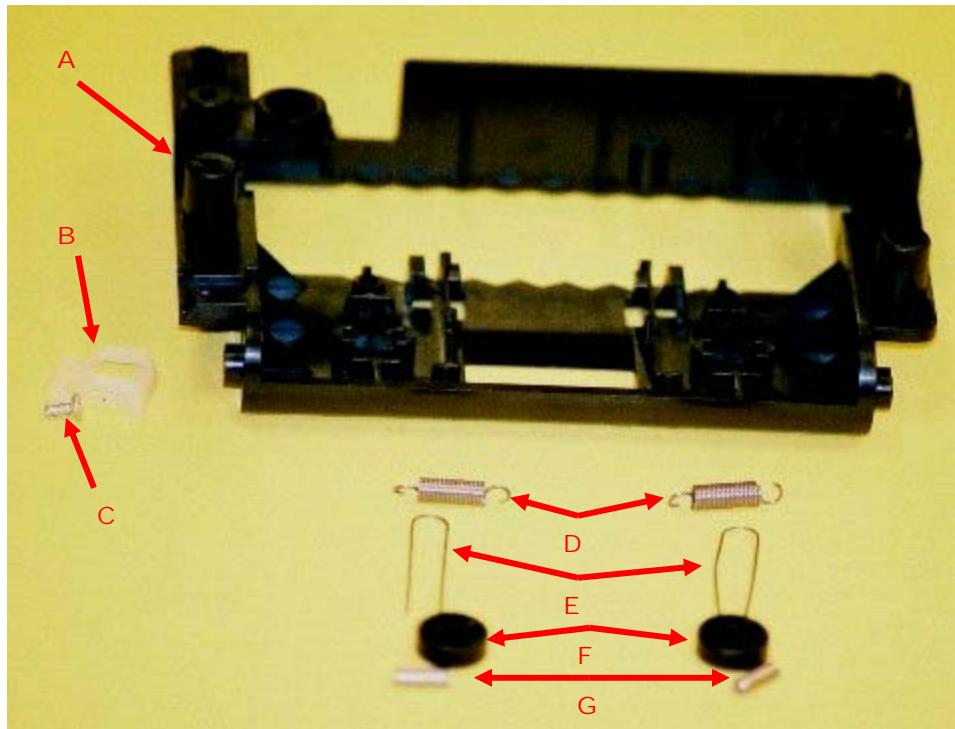


Figure 4-31

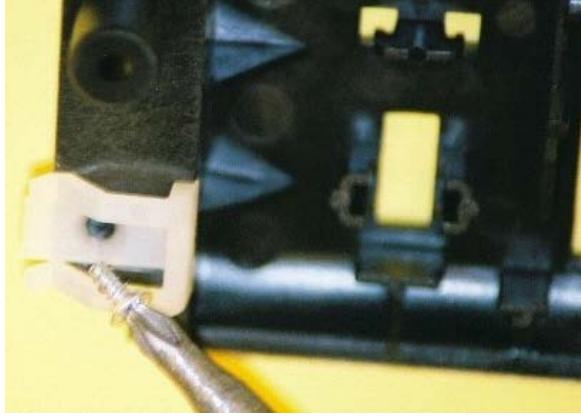
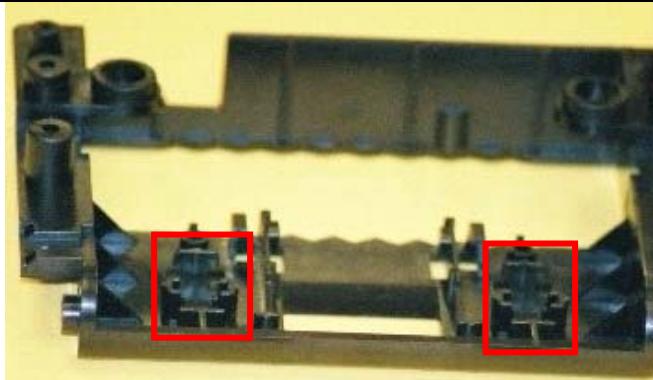
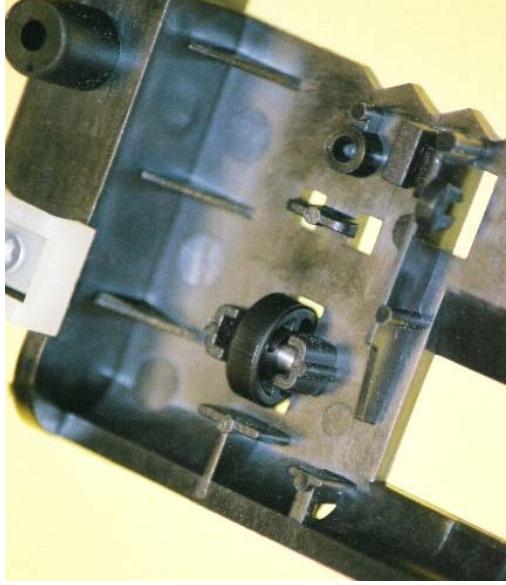
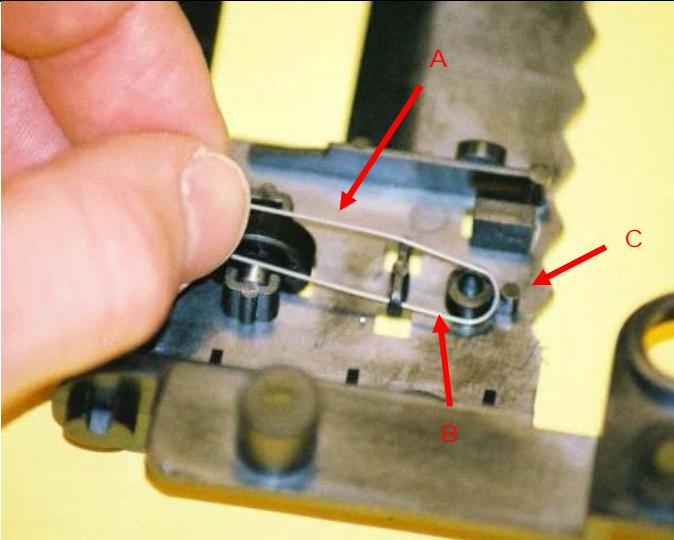
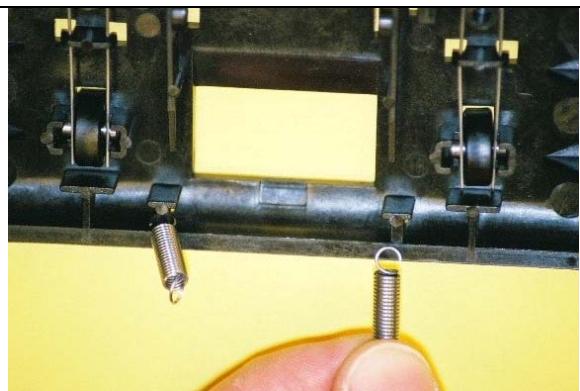
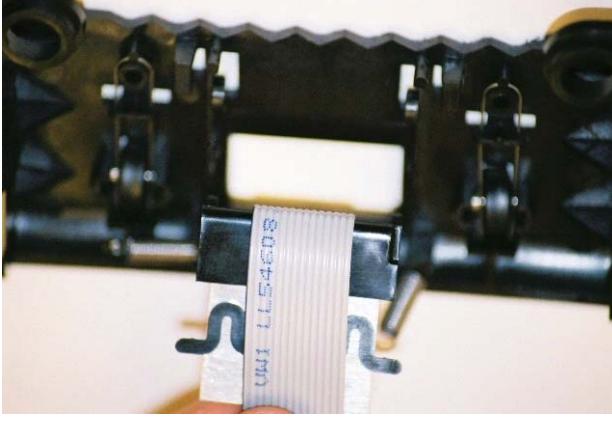
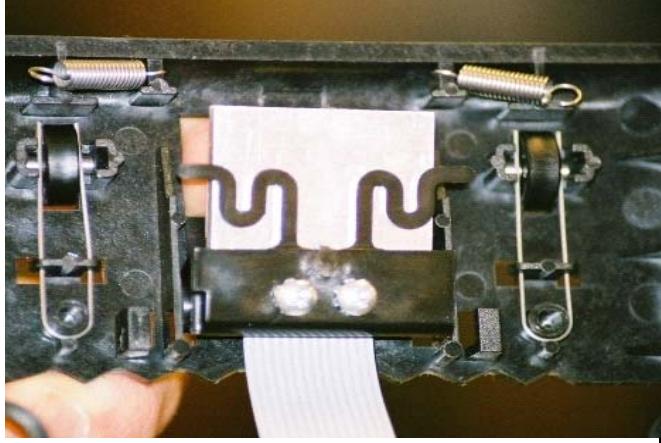
Scanner Assembly Procedure	
<p>38. Select the Nylon Split Flat Cable Clamp (P/N CL60-0020) and place it on the Guide - open end facing away from the Guide.</p> <p>39. Secure with the #4-20 x ¼ Screw (P/N SC54-0047). Refer Figure 4-32.</p>	
<p>40. Take two (2) Dowel SS OD 1/8 Inch x 3/8 Inch Pins (P/N PN65-0001) and the two (2) Machined Delrin 4 Inch Scanner Pressure Rollers (P/N RL10-0018).</p> <p>41. Place the Pins through the centers of the Rollers, one Pin to a Roller. These will act as axles on each side of the Guide.</p> <p>42. These axles have to be positioned on the Guide within the rectangles as shown in Figure 4-33.</p>	

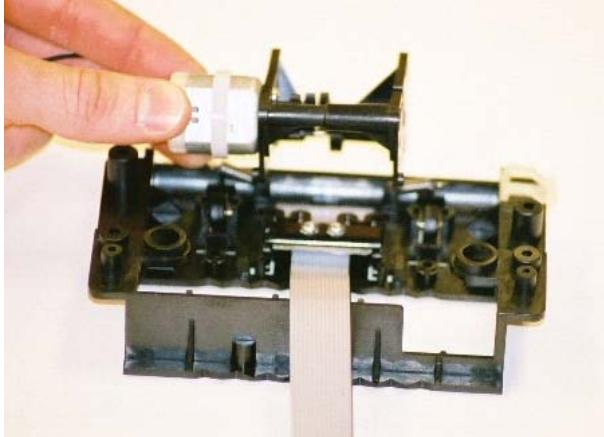
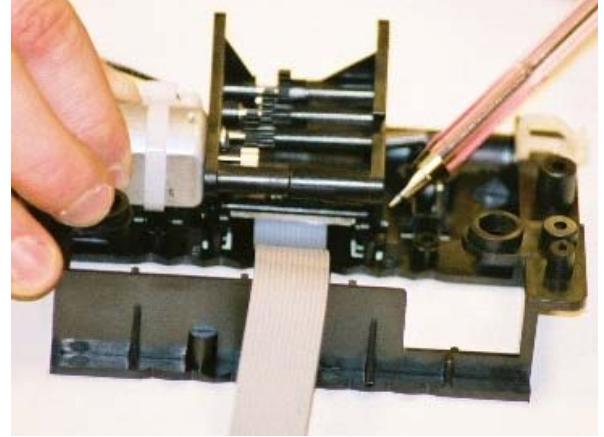
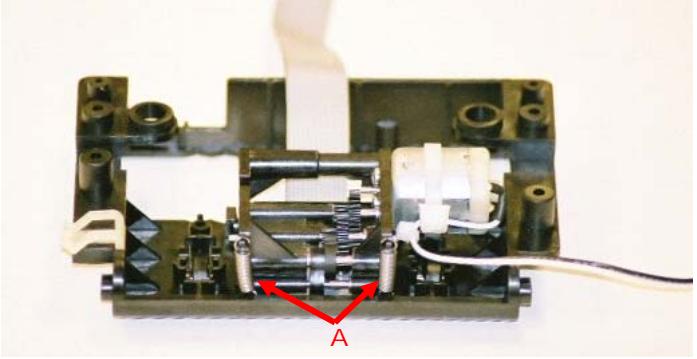
Figure 4-32

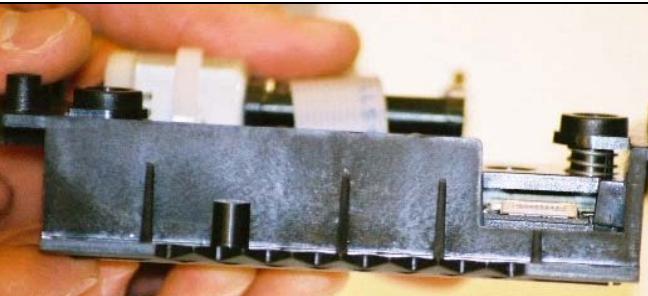
Figure 4-33

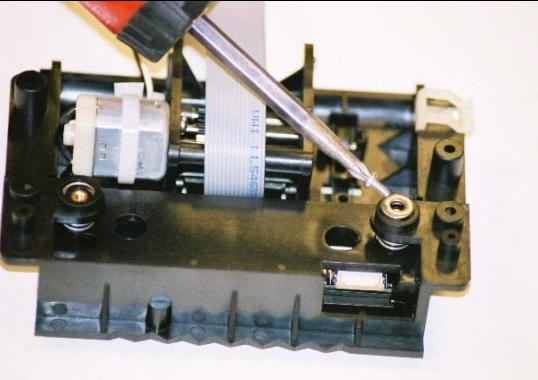
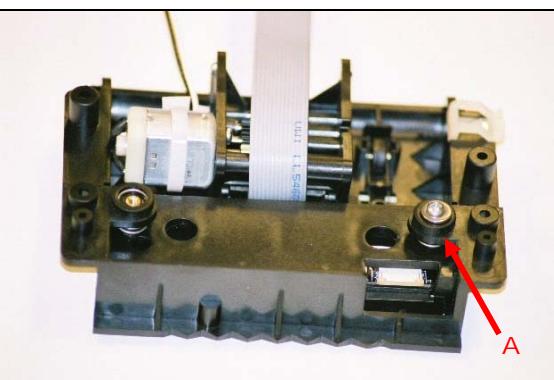
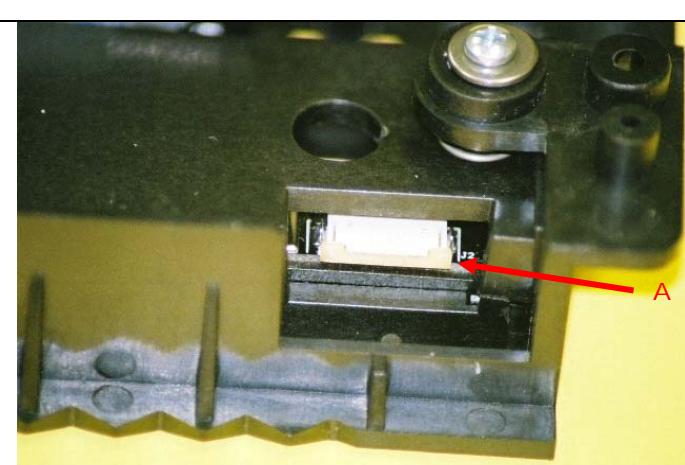
Scanner Assembly Procedure	
<p>43. Place each Roller + Pin assembly in position as indicated in Figure 4-34.</p>	
<p>44. Take two (2) Custom MW 4 Inch Scanner Pressure Roller Springs (P/N SG40-0007). Refer to Figure 4-35</p> <p>45. Take one Roller Spring and place its open end on top of one side of the Roller <b>A</b>.</p> <p>46. Clip the Spring under the plastic hook on the Guide <b>B</b>.</p> <p>47. Line the looped end of the Roller Spring around the Circular post on the Guide <b>C</b>.</p>	

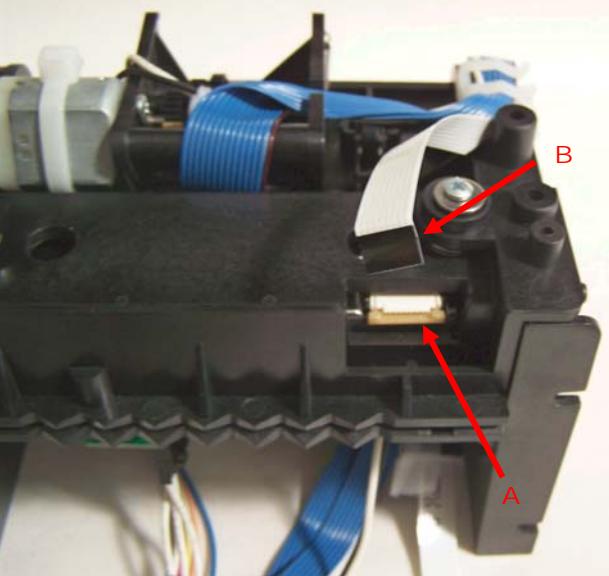
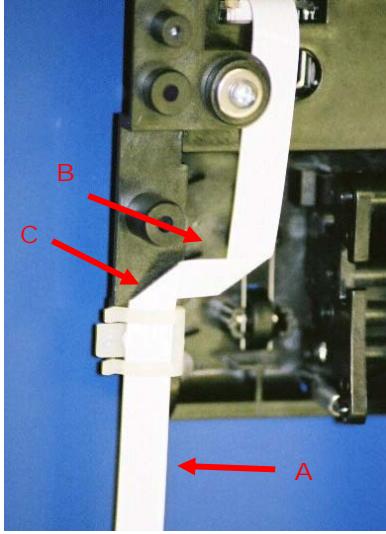
Scanner Assembly Procedure	
<p>48. Refer to Figure 4-36 <b>A</b>. Push remaining open side of the Roller Spring on top of the other side of the Roller. Clip the Spring under the plastic hook and snap into position.</p> <p>49. Repeat the entire procedure with the second Roller Spring.</p>	
<p>50. Take the two (2) Custom Extension Music Wire 4 Inch Scanner Brander Springs (P/N SG20-0004) and hook into position on the front of the Guide as indicated in Figure 4-37.</p>	

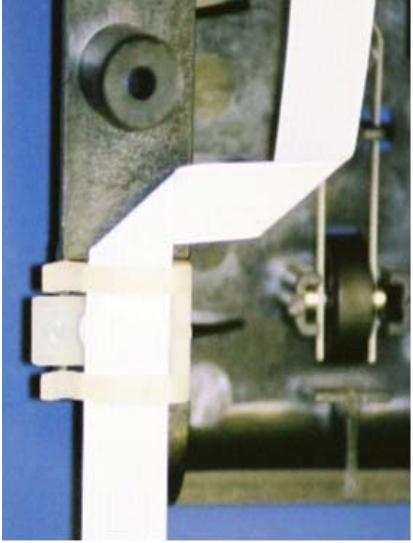
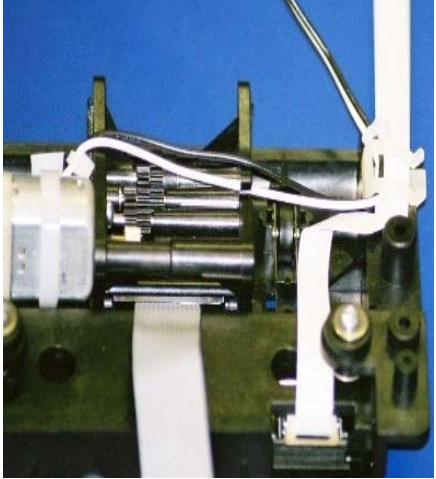
Scanner Assembly Procedure	
51. Take up the Print Head assembled in Phase 2. As shown in Figures 4-38 and 4-39, slide the Print Head assembly into position on the Guide between the two Rollers. It only goes in one way.	 <p>Figure 4-38</p>  <p>Figure 4-39</p>

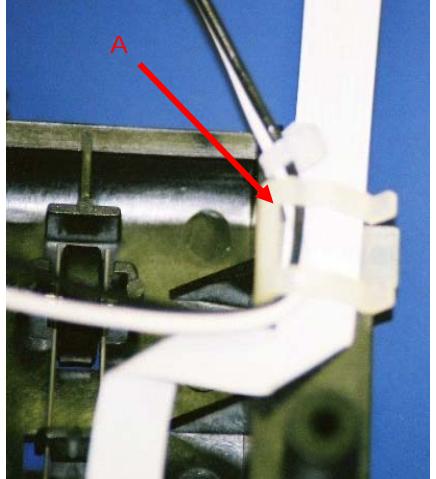
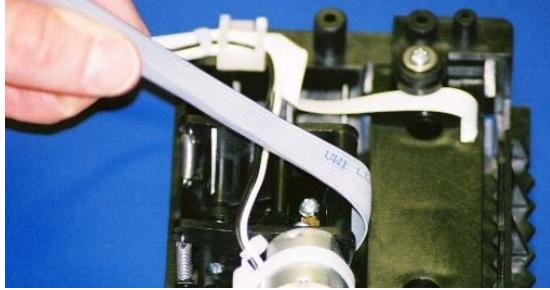
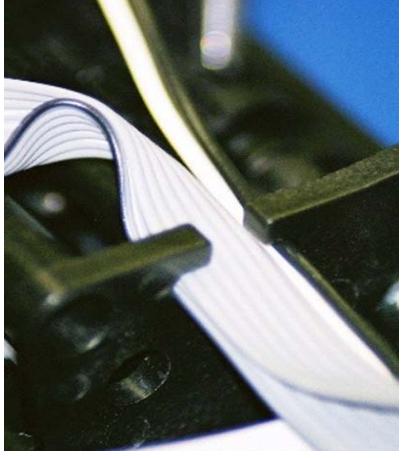
Scanner Assembly Procedure	
52. Position Brander Pressure Sub-assembly with the Motor positioned as shown in Figure 4-40.	
53. Slide the Brander Pressure over the Print Head and into its posts on the Guide. Posts are indicated to by the Pen in Figure 4-41.	
54. Pull the Brander Pressure Sub-assembly towards you and lock into place. Secure in position with the two Brander Scanner Springs as shown in Figure 4-42 A.	

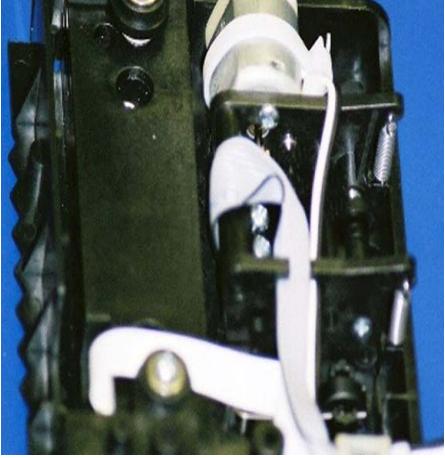
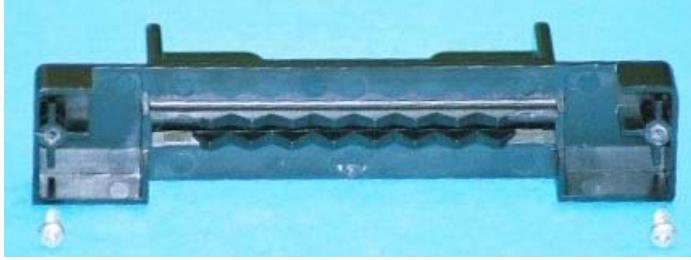
Scanner Assembly Procedure	
55. Take the Scan Head Guide previously assembled as shown in Figure 4-43.	
56. Insert the Scan Head into the rectangular opening on the underside of the Guide.	
57. Refer to Figure 4-45 to view how the Saw Tooth Design fits together.	

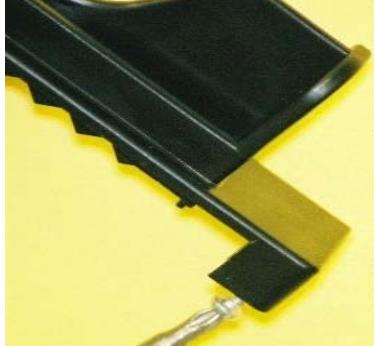
Scanner Assembly Procedure	
<p>58. Select two (2) #6 .375 O.D x .156 I.D x .049 THK, Type A Plain Washers (P/N WA 56-0007) and two (2) #4-40x <math>\frac{1}{4}</math> Screws (P/N SC54-0009).</p> <p>59. Place both the Washers in position over the 2 threaded holes on the top side of the guide.</p>	
<p>60. Insert one screw in place over each washer as shown in Figure 4-47 A.</p>	
<p>61. Check to ensure that the Scan Head Reader is moveable. It should not be restricted by any plastic parts.</p>	

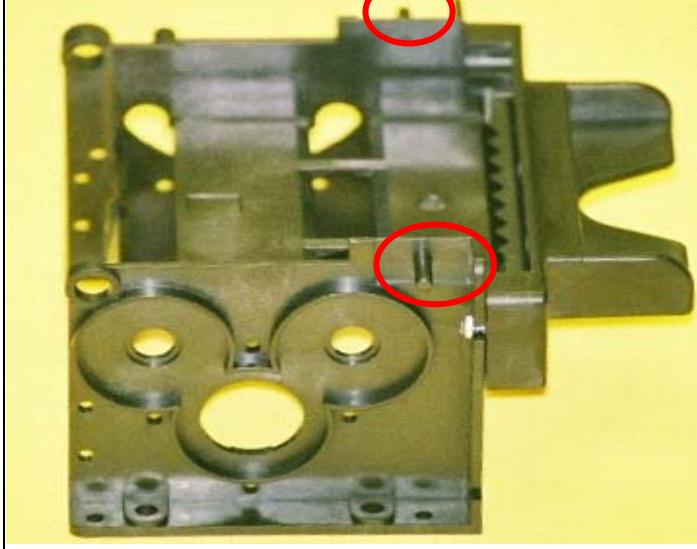
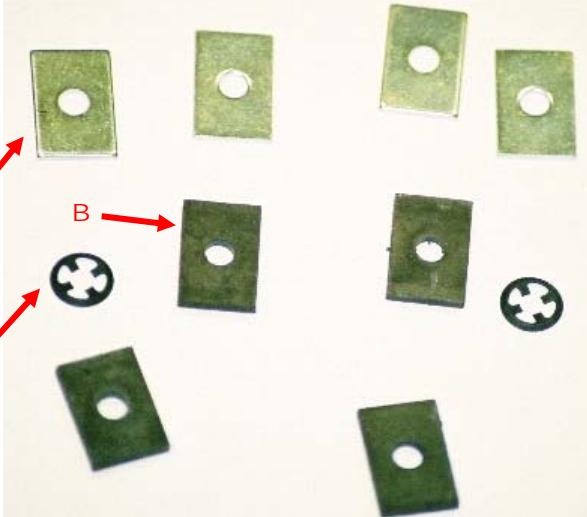
Scanner Assembly Procedure	
<p>62. Select a Flat Flex Peripheral Imaging 4 Inch CIS Data Cable (P/N CA30-0004).</p> <p>63. On the Guide pull out the Connector Pin as shown in Figure 4-49 <b>A</b> on the Ribbon Connector.</p> <p>64. Take the Data Cable (P/N CA30-0004) and with silver side up <b>B</b> slide it into the Ribbon Connector on the Guide as far as it can go until you no longer see silver.</p> <p>65. Gently click the pin back to lock the Cable in place.</p>	
<p>66. Position the CA30-0004 Data Cable lying flat and facing as shown in Figure 4-50 <b>A</b>. Approximately a cable width above the White Cable Clamp on the Guide, apply a single 90 degree fold to bend the Cable <b>B</b>.</p> <p><i>NOTE: Make sure that the Cable does not pull out from the Connector.</i></p> <p>67. At the length of the Cable just before the Cable Clamp make a further 90 degree bend <b>C</b>.</p>	

Scanner Assembly Procedure	
68. Slide the Cable through the Clamp as shown in Figure 4-51.	
69. Refer to Figure 4-52. Take up the Black and White Motor Cable (P/N CA05-0137) and pass it through the slot on the Guide. Drape it across the Brander Pressure Assembly.	

Scanner Assembly Procedure	
70. Slide it under the Clamp on top of the Data Cable and push it back and down as far as possible. See Figure 4-53 <b>A</b> .	
71. Take up the Grey Print Head Cable and crease it together as displayed in Figure 4-54.	
72. Bend the Cable 90 degrees and fit it under the Slots on the Brander Pressure. See Figure 4-55.	

Scanner Assembly Procedure	
<p>73. At the Clamp apply a further 90 degree bend and slide it under the Clamp and over the Data Cable as shown in Figure 4-56.</p> <p><b>This ends PHASE 2 of the Scanner Assembly.</b></p>	
<p>74. Select a Molded 4 Inch Scanner Main, US Chassis (PN CH20-0001-01) as shown in Figure 4-57.</p>	
<p>75. Select a Molded Small Doc Scanner Black Bezel (P/N BZ20-0017) and two (2) #6-19 x 3/8 Screws (P/N SC56-0007) as shown in Figure 4-58.</p>	

Scanner Assembly Procedure	
76. Drill both Screws into the Bezel to ensure proper fit.	
77. Remove one of the Screws completely and leave the second loosely attached to the Bezel as displayed in Figure 4-60.	
78. Slide the Bezel onto the Chassis using the loose Screw as displayed in Figure 4-61.	

Scanner Assembly Procedure	
<p>79. Insert the second Screw and tighten both Screws firmly. The finished Chassis/Bezel Assembly is illustrated in Figure 4-62.</p> <p><i>NOTE: For reference, note the position of the Posts (indicated in Figure 4-62 by red circles.)</i></p>	
<p>80. Refer to Figure 4-63. Select:</p> <ul style="list-style-type: none"> <li><b>A</b> Four (4) Zinc Plated Steel Magnet Pole Pieces with Center Hole Plates (P/N PT60-0003)</li> <li><b>B</b> Four (4) Barium Ferrite Magnet W/Center Hole Plates (P/N PT60-0002)</li> <li><b>C</b> Two (2) Retaining Circular Push-On Rings (P/N RR90-0006)</li> </ul>	

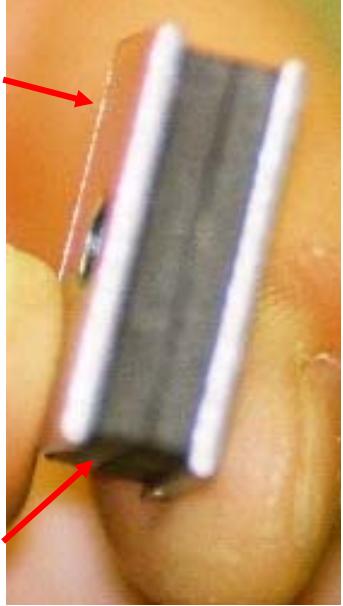
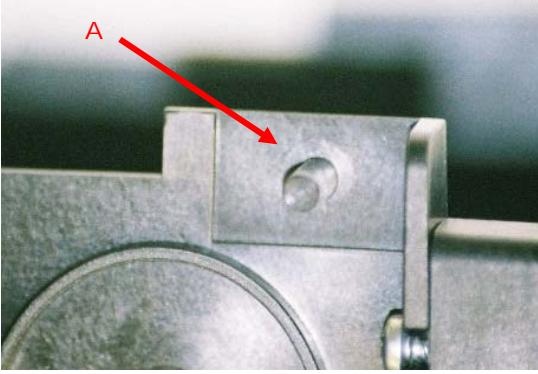
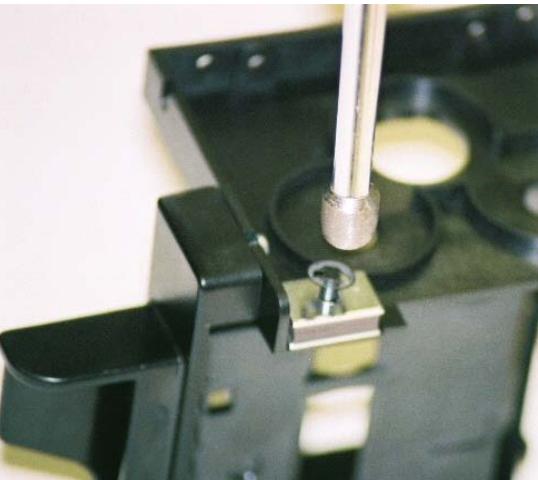
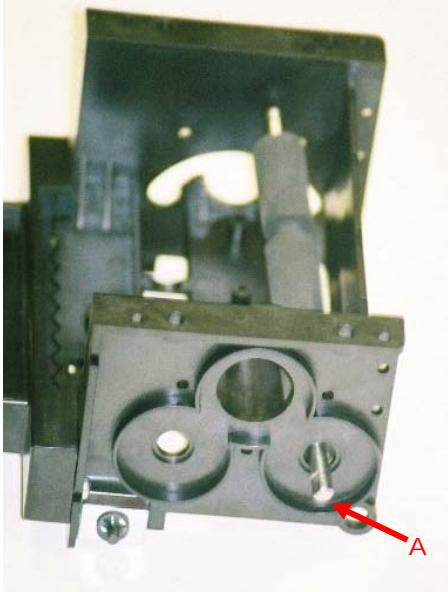
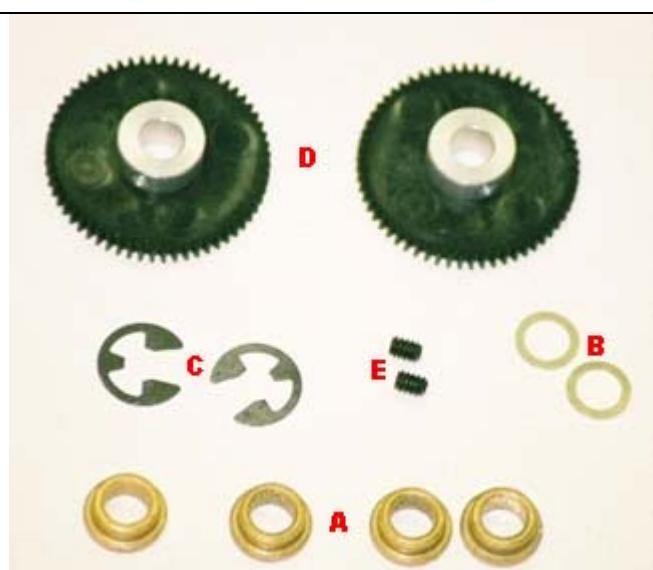
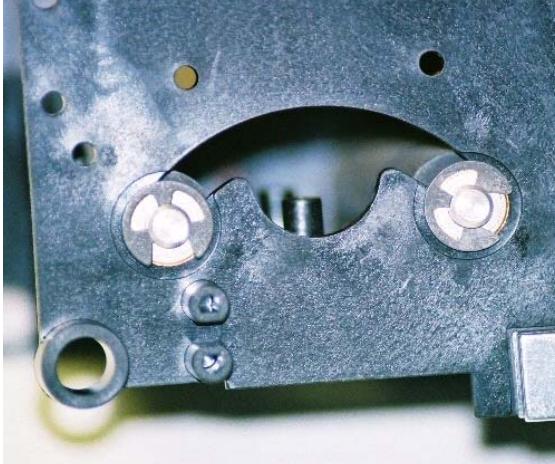
Scanner Assembly Procedure	
<p>81. These parts are assembled on both sides of the Chassis as shown in Figure 4-64.</p> <p>82. Put the sides of two of the Barium Plates <b>A</b> in the center of two of the Zinc Plates <b>B</b>.</p>	

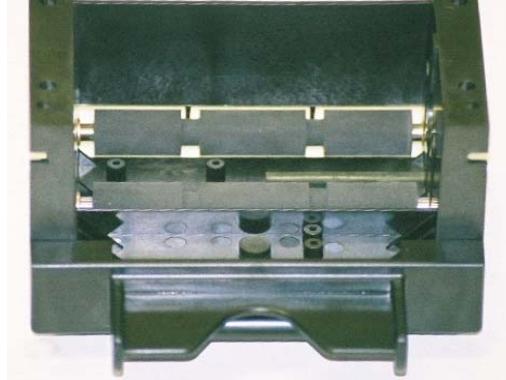
Figure 4-64

Scanner Assembly Procedure	
<p>On the top side of the Chassis closest to the Bezel are 2 Posts. Figure 4-65 <b>A</b> shows a close-up view of one of these posts.</p> <p>83. Slide the Barium/Zinc Plate Combination over one of these posts on the Chassis as illustrated in Figure 4-66.</p>	
	
<p>84. Place the Chassis on its side with the Plate Combination facing upwards. Balance one (1) of the Retaining Rings on the Post.</p> <p>85. Use a Nut Driver to press the Retaining Ring flush with the Zinc Plate. Refer Figure 4-67.</p> <p><i>NOTE: Flip the Chassis over and repeat on the other side with the remaining sets of plates and the Retaining Ring.</i></p>	

Scanner Assembly Procedure	
<p>86. Select two (2) Machined Nitrile 4 Inch Scanner Drive Rollers (P/N RL10-0017) as displayed in Figure 4-68.</p> <p><i>NOTE: The Rollers have a Flat End and a Ringed end.</i></p>	
<p>87. Turn the Chassis upside down with the Bezel positioned as shown in Figure 4-69.</p> <p>88. Insert the Flat end of one Roller into the Chassis <b>A</b>.</p>	

Scanner Assembly Procedure	
<p>89. Take the opposite ringed end of the Roller (P/N RL10-0017) push down and back so that it sits in the Chassis as shown in Figure 4-70.</p> <p>90. Take the second Roller. With the Flat end to the Right place the Roller in the bottom small opening closest to your body. Take the opposite end of the Roller to the other side of the Chassis – push down then pull towards your body and clip into place.</p>	
<p>91. Refer to Figure 4-71 to identify the following parts:</p> <p><b>A</b> Four (4) Sleeve Oilite OD 3/8 Inch x ID 1/4 Inch x 3/16 Inch Bearings (P/N BE70-0007)</p> <p><b>B</b> Two (2) Thrust ID.225 x OD.375 x .005THK Stainless Steel Washers (P/N WA90-0013)</p> <p><b>C</b> Two (2) Steel 1/4 Inch Shaft E-rings (P/N RR60-0007)</p> <p><b>D</b> Two (2) Molded Spur Delrin 60T 48P, 1/4 Bore 4 Inch Scanner Gears (P/N GE24-0005)</p> <p><b>E</b> Two (2) #6-32 x 3/16 Inch Hex Socket Black Oxide CUP PT, SET Screws (P/N SC56-0006).</p>	

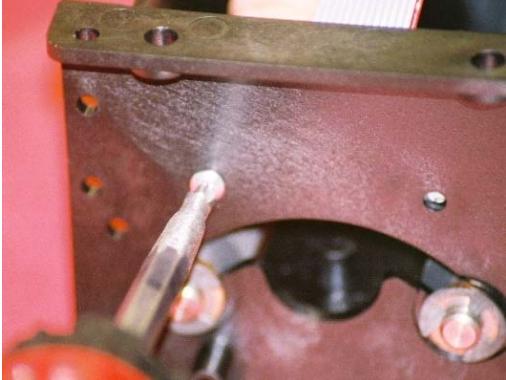
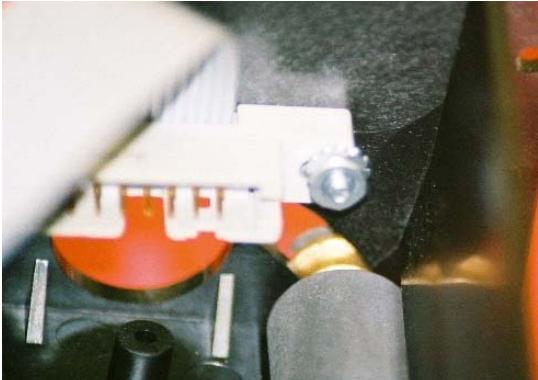
Scanner Assembly Procedure	
<p>92. Position the Chassis as shown in Figure 4-72.</p> <p>93. On the Left Side insert one (1) Sleeve Bearing on the shaft of each Roller. At times pressure is required to snap them in place.</p> <p>94. Take 2 Washers and insert one (1) on top of each Bearing.</p> <p>95. Take the 2 Shaft E-Rings and slide into position on the ring cut on each of the Rollers.</p>	
<p>96. On the Right Side of the Chassis, Insert the remaining two Sleeve Bearings over the Shafts of the Rollers.</p> <p>97. Take the two (2) Gears and position them on top of the Rollers flush with the Chassis.</p> <p>98. Turn the Chassis on its left side with the Gears facing upwards. With one hand lift the one Roller. With the other adjust the Gear in order to position the Shaft of the Roller flush with the opening of the Gear.</p> <p>99. Turn the Gear so that the Screw Hole lines up with the Flat edge of the Shaft. Refer Figure 4-73.</p> <p>100. Repeat to align the 2nd Roller.</p>	

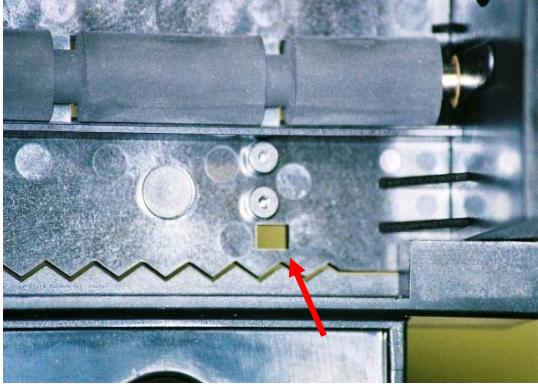
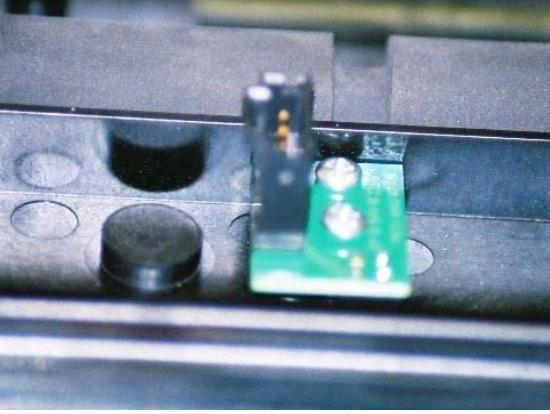
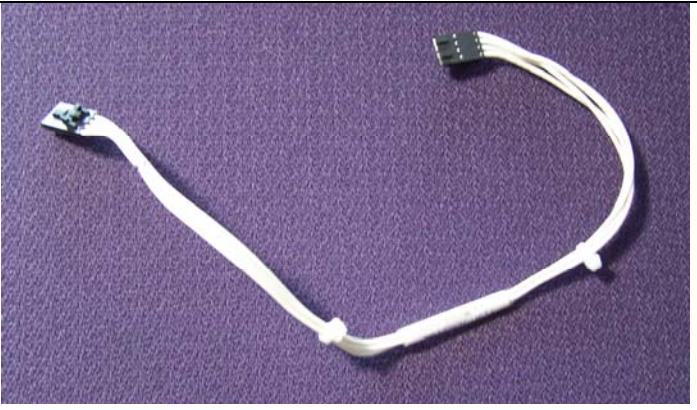
Scanner Assembly Procedure	
<p>101. Once both Rollers are aligned take up one of the two Hex Socket Black Oxide Screws (P/N SC56-0006). Using the appropriate size Allen Wrench, attach the Screw to the wrench. Dip the Screw in Loctite 242.</p> <p>102. Once aligned tighten in place on the Shaft as indicated in Figure 4-74.</p> <p>103. Repeat with the remaining Roller.</p> <p><i>NOTE: Pull on the Gears to make sure that they are securely fastened.</i></p>	
<p>104. Position the Chassis upside down with Bezel facing towards you as indicated in Figure 4-75.</p>	
<p>105. Select a Brander Print Head Extension Cable (CA20-0085), two #4-40 x ½ PPH Zinc PL Screws (P/N SC54-0048) and two (2) #4-40 Nuts (P/N NU54-0001) as displayed in Figure 4-76.</p>	

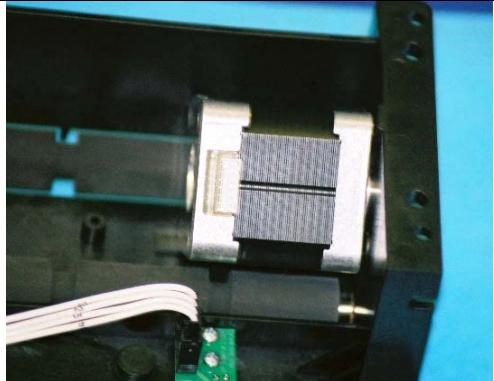
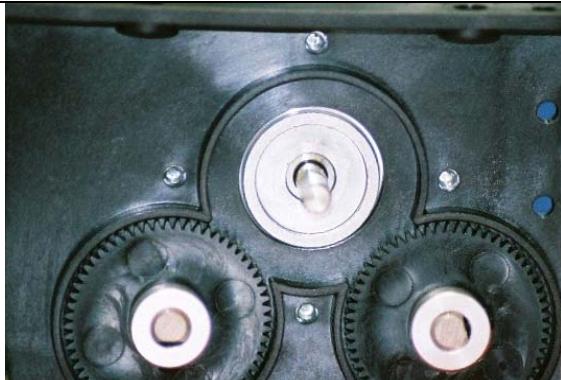
Scanner Assembly Procedure	
106. Take the Grey Plastic Connector end of the Cable and, with the other end of the Cable facing in the air, insert the Cable on the inside left of the Chassis lining up with the two small holes above the Rollers.	
107. Take one Screw, and from the outside, insert it through one hole to hold the cable in place.	

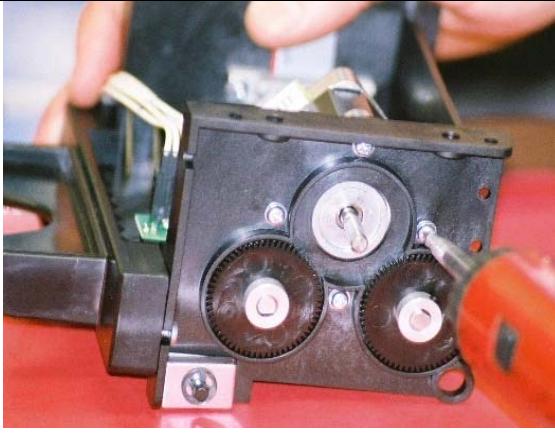
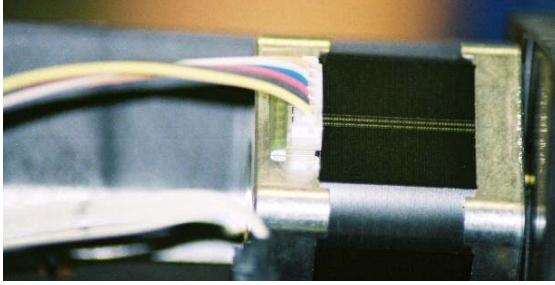
Figure 4-77

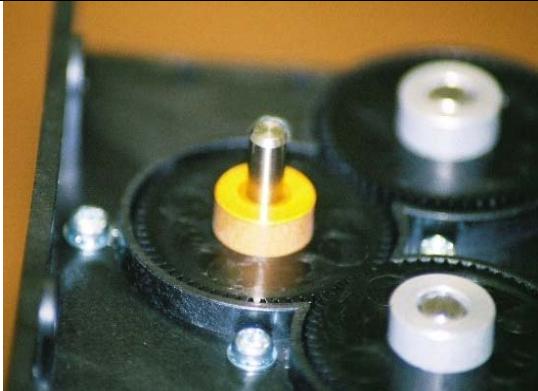
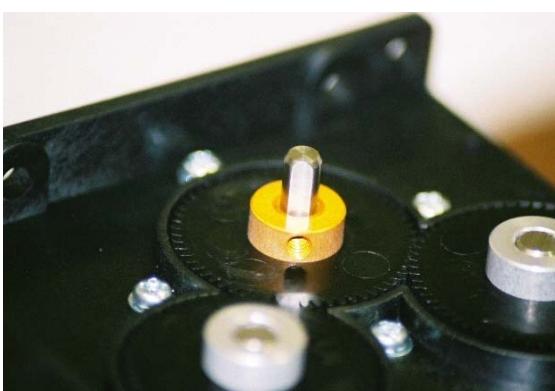
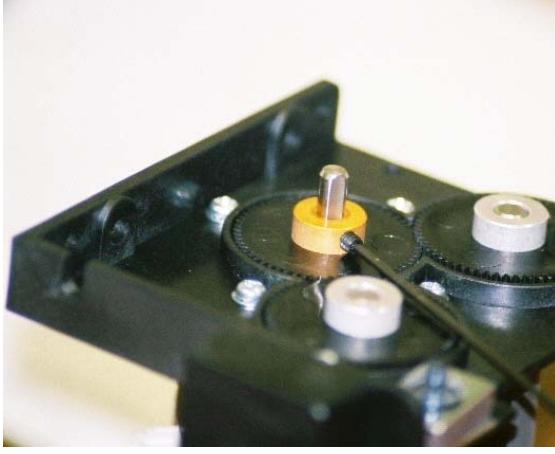
Figure 4-78

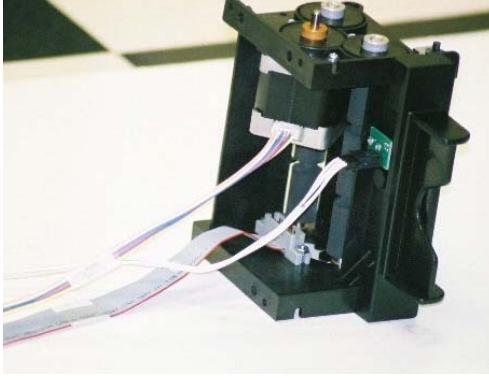
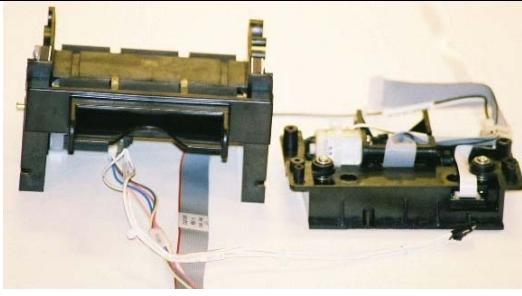
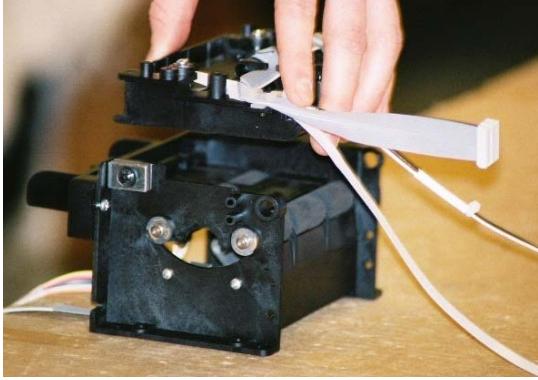
Scanner Assembly Procedure	
<p>108. Using one hand to hold the Screw in position use your other hand to place the KEP Nut over the Screw on the inside of the Chassis. Tighten firmly using a screw driver.</p> <p>109. Repeat with the other hole securing the screws tightly.</p>	
	
<p>110. Select one (1) PCB Adapter Mini Terminal Reader Input Sensor (P/N PA25-0013) and two (2) #4-24 x 1/4 PPH HI-LOW Screws (P/N SC54-0013) as displayed in Figure 86 below. Note the two holes on the Input Sensor and the small square Black Sensor.</p>	

Scanner Assembly Procedure	
111. On the inside of the Chassis is a small square opening (in front of the Bezel) as displayed in Figure 4-82.	
112. Insert the Sensor Square into the opening lining up the 2 holes with the 2 posts. Screw in place.	
113. Select a single Discrete Scanner Document Input Sensor Cable (P/N CA05-0136) and insert into Mini Terminal Reader Input Sensor just installed.	

Scanner Assembly Procedure	
114. Select a Custom W/Crimp-N-Poke Connection, 8IN Scanner Motor (P/N MT45-0005), one (1) Molded Spur Delrin 60T 48P 5MM Bore 4Inch Scanner Gear (P/N GE24-0006), one (1) Motor Cable (P/N MT45-0005) and four (4) M3 x 6 Screws (P/N SC73-0005).	 A photograph showing a motor assembly. It consists of a black rectangular motor body with a silver metal gear attached to its shaft. A multi-colored ribbon cable is connected to the motor. The assembly is placed on a light blue surface.
115. With the Bezel of the Chassis facing towards you, insert the Motor into the large diameter hole on the Right side of the Chassis.  116. Insert the Motor with the White Cable Connector facing Left & Upward.	 A photograph showing a close-up of a motor being inserted into a dark grey or black chassis. The motor has a white cable connector visible at the bottom. The background is a light blue surface.
117. Twist the Motor diagonally slightly towards you lining its 4 holes with those on the Chassis.	 A photograph showing the motor assembly secured in the chassis. The motor is twisted diagonally, aligning its four mounting holes with the corresponding holes in the chassis. The background is a dark, textured surface.

Scanner Assembly Procedure	
118. Take up the 4 Screws. Dip in Loctite and line up with the holes on Motor and Chassis. Screw in place.	
119. Take up the Motor Cable (keyed) and insert into the connector on the Motor as displayed in Figure 4-89.	

Scanner Assembly Procedure	
<p>120. Position the Chassis as shown in Figures 4-90 and 4-91.</p> <p>121. Position the Gear on top of the Motor Shaft lining up the screw hole with the flat edge of the Shaft (as done with the Rollers).</p>	
	
<p>122. Select one (1) #6-32 x 3/16 inch, Hex Screw (P/N SC56-0006), dip in Loctite and screw in place.</p>	

Scanner Assembly Procedure	
123. The Finished Part Assembly is displayed in Figure 4-93.	
<b>Begin PHASE 4 Mini Scanner Assembly</b>  124. Combine the Mini Scanner Chassis and upper Scan Head Guide.  125. Place the Chassis with the Bezel and Cable facing forward. Take the Upper Scan Head Guide and position with the Read Head closest to us and facing down (the cables will be behind).	
126. Note the 2 posts on the Guide. These posts fit into the 2 round holes on the back of the Chassis as indicated in Figure 4-95.	

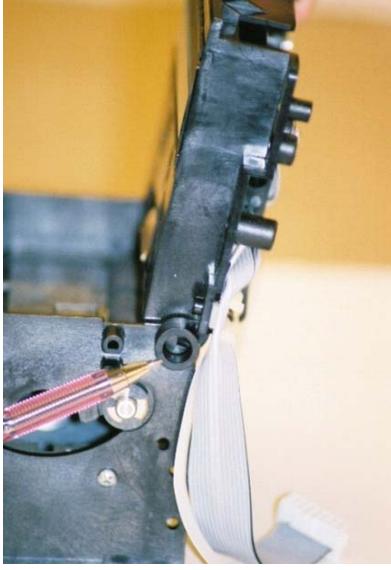
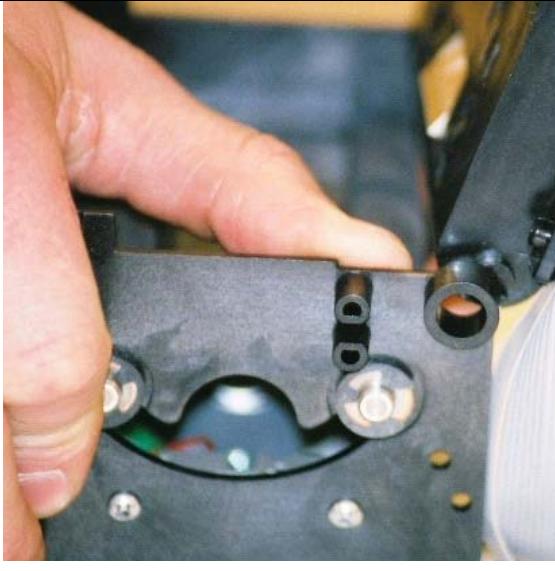
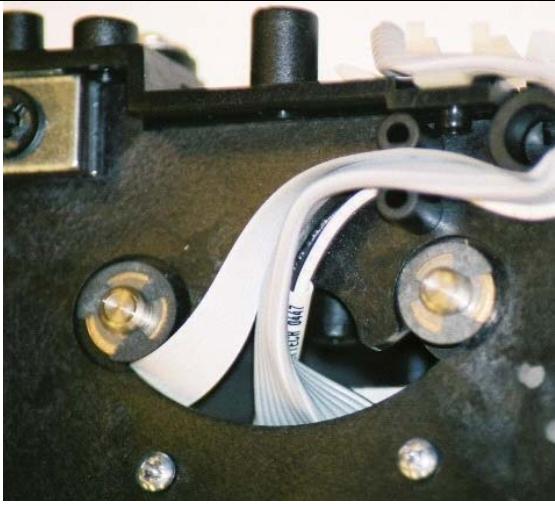
Scanner Assembly Procedure		
127. Start with one hole and slide the post in.		
128. Pry the other side into position. (Apply a little pressure to the outside wall of the Chassis to allow the Post to slide in).		

Figure 4-96

Figure 4-97

Scanner Assembly Procedure	
129. Take the Peripheral Imaging Data Cable (P/N CA30-0004), loop it around the Circle (hinge for Chassis and Upper Guide), route in-between the 2 posts directly below the hinge. Refer to Figure 4-98. Slip the Ribbon Cable through the open center hole.	
130. Take the Black and White Discrete Scanner Brand Head Motor Cable (P/N CA05-0137) and follow the same path on the inside of the Data Cable.  131. Take the Grey Thermal Print Head Cable (P/N PH60-0007). Continue to fold it in half and, following the same path, wrap it around the outside of the other Cables.  132. Tighten all of the Cables so that they wrap closely around the hinge (in other words, take out the slack).	
The next step is to secure the cables in position.  133. Select a single 5/16 diameter Natural Nylon Cable Clamp (P/N CL60-0001). Using a pair of cutting pliers or snips cut the clamp down to size as shown in Figure 4-100.	

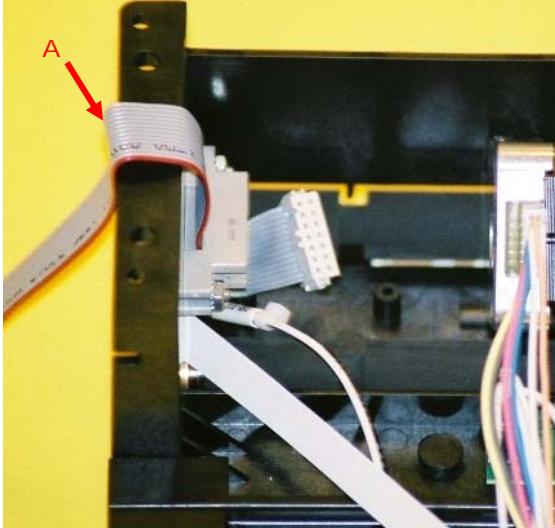
Scanner Assembly Procedure	
<p>134. Select a single #6-19 x 3/8 Screw (P/N SC56-0007).</p> <p>135. Insert the Screw through the cut off Clamp and place in position on the Right Post. Secure firmly.</p>	
<p>136. Position the Chassis as shown in Figure 4-102.</p> <p>137. Take up the Grey Ribbon Cable <b>A</b> with the Connector on the end (coming directly from the Print Head).</p>	

Figure 4-102

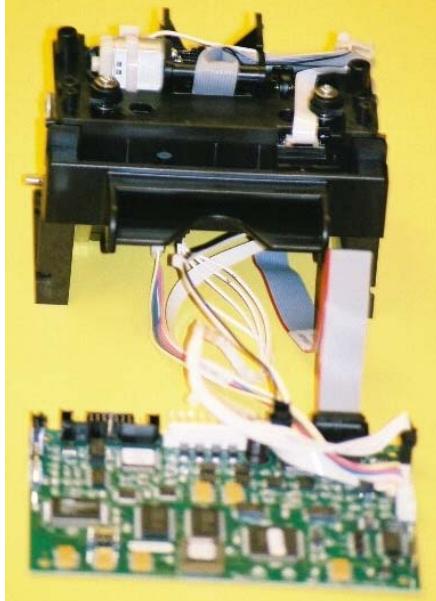
Scanner Assembly Procedure	
138. Fit this cable into the Side Connector of the Extension Cable. It's keyed and only fits in one way.	
139. Select a single Small Scanner PCB Controller Board (P/N PA15-0035) as shown in Figure 4-104.	
140. Position the Chassis with the Bezel and Cables towards you (Chassis sitting flush with the Table).  141. Take up the PCB Board and set it directly in front of the Chassis. Position the Board so that the large White Power Connector on the board is closest to the Chassis as shown in Figure 4-105.	

Figure 4-103

Figure 4-104

Figure 4-105

Scanner Assembly Procedure	
<p>The Cables now have to be connected to the Board.</p> <p>142. Take the Multi-colored 4 Inch Scanner Motor Cable (MT45-0005) and connect to the 6 Pin J8 Connector. It's keyed and only goes in one way.</p> <p>143. Take up the Flat White Peripheral Imaging CIS Data Cable (P/N CA30-0004) which is to be inserted into Connector J10 on the right side of the board.</p> <p>144. Pull out the Locking tabs on Connector J10 and then insert the Data Cable Silver Side up. Lock the tabs back in position.</p>	
<p>145. Take up the White Scanner Document Input Sensor Cable (P/N CA05-0136) and attach to the Black Connector J2. The Cable connection is keyed and only goes in one way.</p> <p>146. Take up the Black and White Scanner Brand Head Motor Cable (P/N CA05-0137) and insert into Connector J7 on the PCB Board (next to the large white Power Connector).</p> <p>147. Take the Grey Brander Print Head Extension Ribbon Cable (P/N CA20-0085) and insert into Connector J9. It's keyed and only goes in one way.</p> <p>148. Assembled Scanners require testing. The testing process is illustrated and discussed in a separate procedure.</p>	

Scanner Assembly Procedure	
149. Figure 4-108 illustrates the Finished Mini Scanner.	 <p style="text-align: center;"><b>Figure 4-108</b></p>

This completes the Scanner Assembly Process. After the Scanner Assembly is replaced, perform the Calibration Procedure.

## Scanner Calibration Procedure

Perform the following steps to calibrate the STAN Scanner:

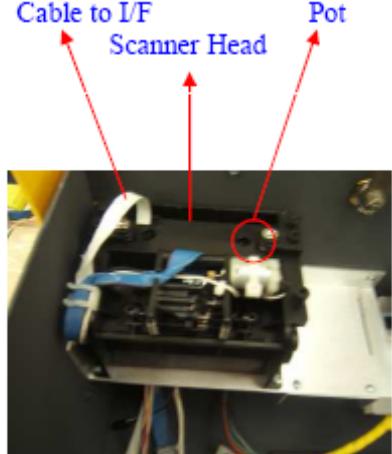
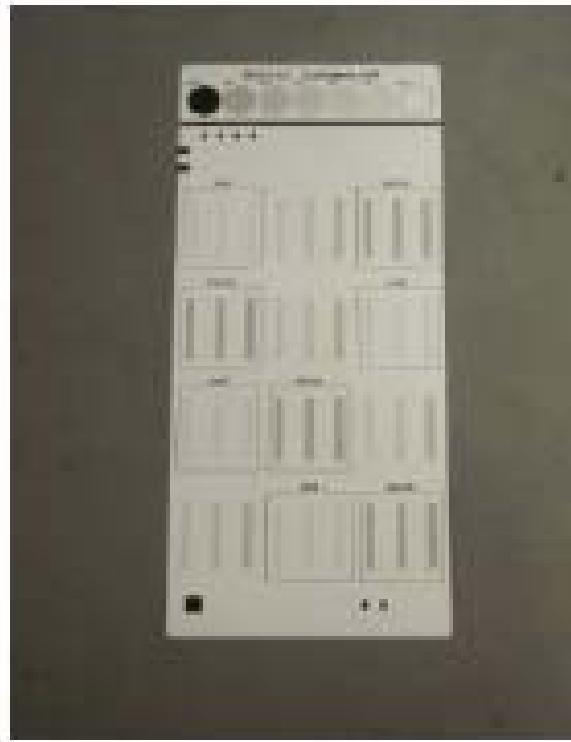
Scanner Calibration Procedure	
<ol style="list-style-type: none"><li>1. Activate the StanXP Diags.</li><li>2. Select SCANNER.</li><li>3. Set:  EJECT OPTIONS: <b>Forward</b>  SCANNER OPTIONS: <b>Display BMP IMAGE</b>  IMAGE RESOLUTION: <b>100 DPI</b></li></ol>	
Refer to Figure 4-109 to complete steps 4 – 6.	 <p>The image shows a close-up of the internal mechanism of a scanner head. A blue circle highlights a specific component. Three red arrows point from the text labels to this highlighted area: one pointing to the left labeled 'Cable to I/F', one pointing straight up labeled 'Scanner Head', and one pointing to the right labeled 'Pot'.</p>

Figure 4-109

#### Scanner Calibration Procedure

4. Insert Grey scale and calibrate by adjusting the POT on the scanner head.



**Figure 4-110**

Scanner Calibration Procedure	
<p>5. Reverse the Grey scale (2) and calibrate by adjusting the POT on the scanner head.</p> <p>6. Calibration is achieved by adjusting the POT on the scanner head so that there are bars in selected boxes and none in other boxes as stated on the GREY SCALES.</p>	

**Figure 4-111**



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# CHAPTER 5

## LOWER DRAWER ASSEMBLY

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### Lower Drawer Assembly Parts List

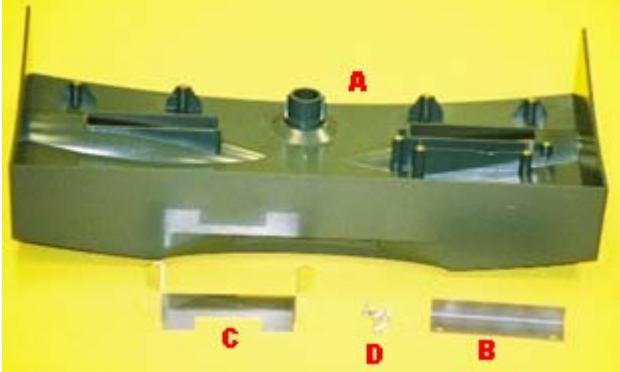
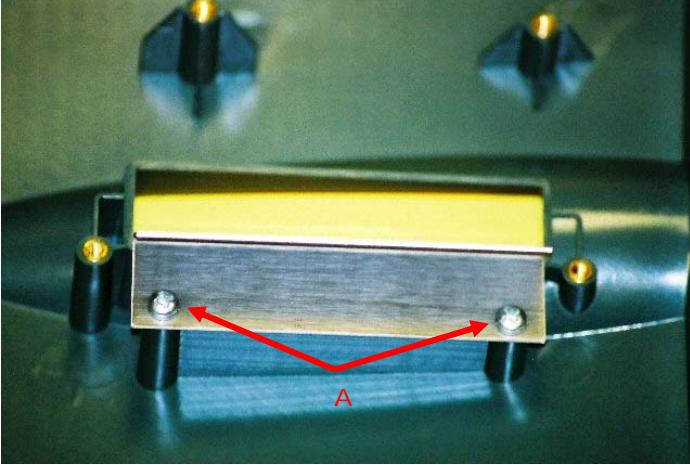
The following parts are required to complete the Lower Drawer Assembly:

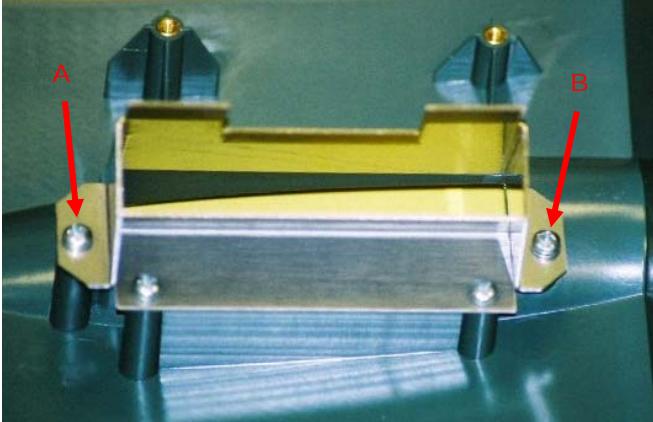
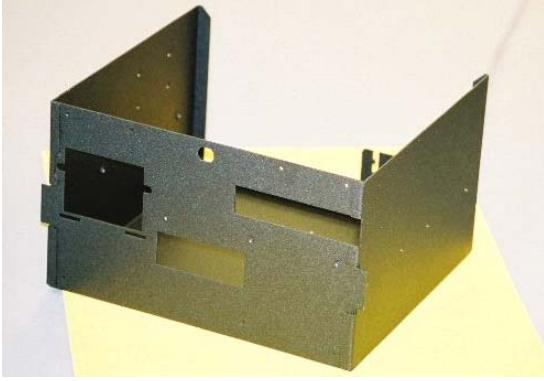
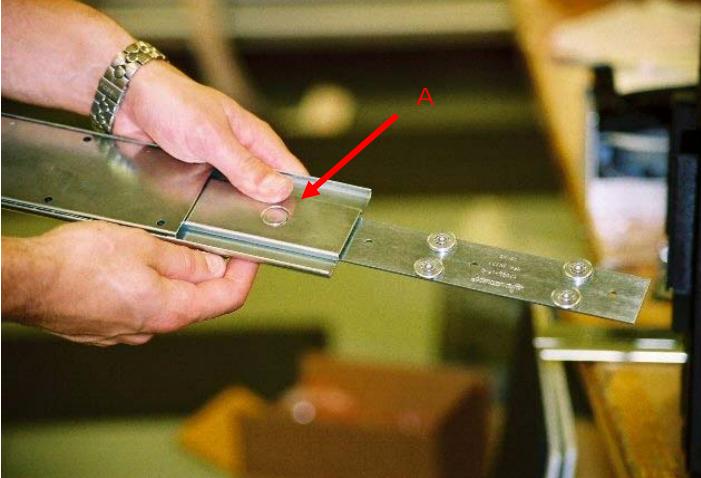
PART NUMBER	QTY	DESCRIPTION
BR30-0082	2	BRACKET (SHEET-FAB), SS, SLIDE SECURITY
BR30-0147	1	BRACKET (SHEET-FAB),PRINTER,SCANNER,MOUNT,STAN,LWR DWR
BR30-0148	1	BRACKET (SHEET-FAB),MAG CARD READER MOUNT, STAN DRAWER
BR30-0149	1	STAN Paper Spindle
BR30-0150	1	BRACKET (SHEET-FAB),TICKET BOX
BZ20-0021	1	BEZEL (MOLDED), CYCOLOY, STAN LOWER DRAWER, NO BILL,PMS116C,
CM60-0002	1	CAM, LOCK, MEDECO 1.25IN D SERIES FLAT
GD40-0003	1	GUARD (CUSTOM),STAN SMALL SCANNER BOARD
GU30-0024	1	GUIDE (SHEET-FAB),PAPER UPPER, STAN LOWER DRAWER
GU30-0025	1	GUIDE (SHEET-FAB),PAPER, LOWER, STAN LOWER DRAWER
GU30-0025	1	GUIDE (SHEET-FAB),PAPER, LOWER, STAN LOWER DRAWER
GU90-0002	2	GUIDE, DRAWER SLIDE, 12IN W/15IN EXT, ROLLER
LL60-0006	1	KEY, 6M265501, MEDECO SECURITY LOCK
LL65-0003	1	LOCK, MEDECO SECURITY, KEYED TO 6M265501 W/LOCK NUT
PA15-0035	1	ASSY, PCB, CONTROLLER, SMALL SCANNER
PT30-0128	1	PLATE (SHEET-FAB),PRINTER MOUNTING, STAN
RH60-0003	1	READ HEAD, SMART CARD, W/T BEZEL
SA25-0001-04	1	ASSY, PRINTER, STAN, 200DPI PRINthead
SA30-0026	1	ASSY, READER, AUTOTOTE 4IN SCANNER, US
SC54-0009	1	SCREW, #4-40 X 1/4 TYPE SWAGEFORM PHILLIPS PAN HD, ZINC
SC56-0036	1	SCREW, #6-32 X 1/4 PPH SWAGEFORM
SC56-0057	27	SCREW,6-32 X 5/16 SEM
SC60-0003	2	SCREW, #10-32 X 3/8IN, PPH SEM, ZINC PL
SC60-0012	8	SCREW, #10, 32X1/4 PHIL PAN HD MS ZINC PL
SD10-0003	1	SPINDLE (MACHINED), PAPER SPINDLE, STAN

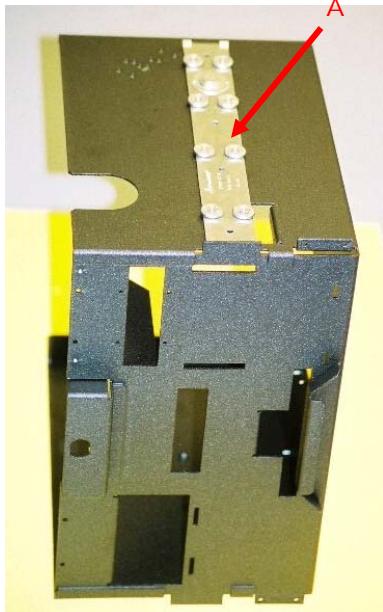
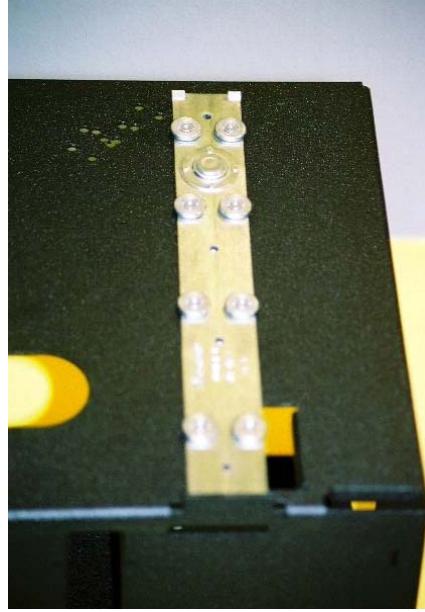
PART NUMBER	QTY	DESCRIPTION
SY35-0020	1	TRAY (SHEET-FAB),LOWER,STAN,MOD FOR 4 INCH SCNR,MAG RDR
WA90-0124	1	WASHER,SPINDLE
BZ20-0017	1	BEZEL (MOLDED), SMALL DOC SCANNER, BLACK
SC56-0007	2	SCREW, #6-19 X 3/8 PHIL HD BLUNT PT STEEL ZINC PL TY PE H-L
SY45-0001	1	TRAY (CUSTOM), CORRUGATED PLASTIC, STAN CANCELED TICKETS

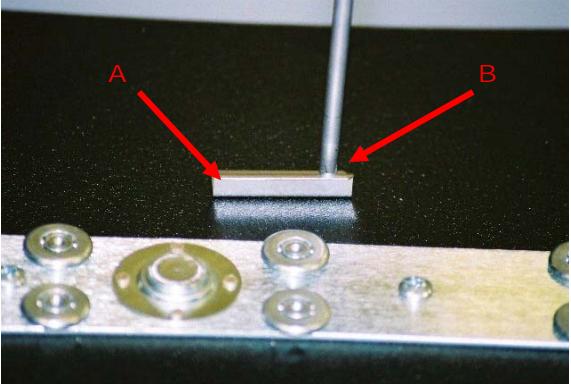
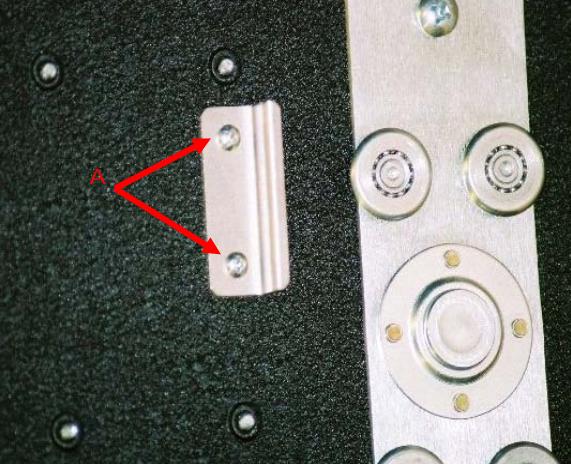
## STAN Lower Drawer Assembly Procedure

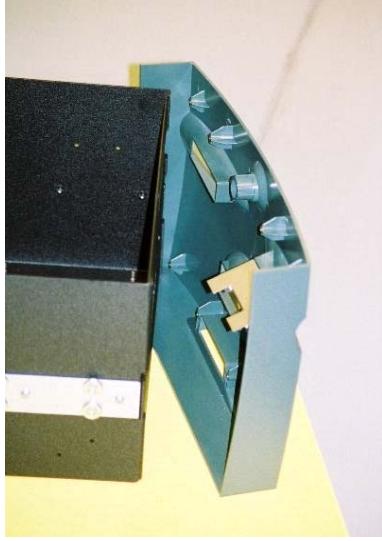
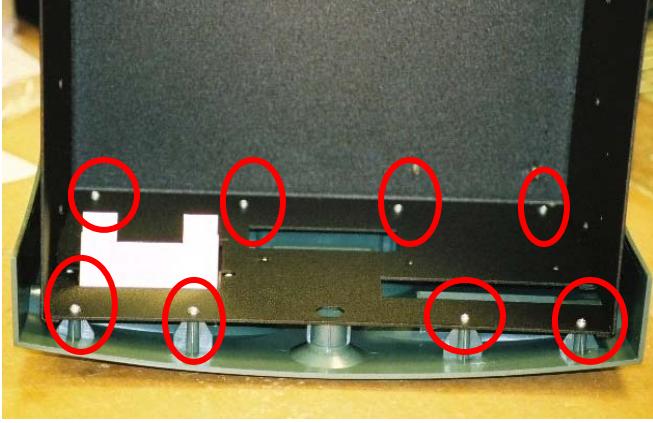
Perform the following steps to complete the Lower Drawer Assembly:

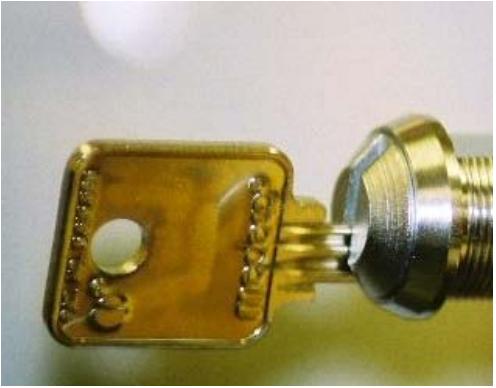
Lower Draw Assembly Procedure	
<p>1. Select:</p> <p><b>A</b> One (1) Molded Cyclooy Stan Lower Drawer Bezel (P/N BZ20-0021)</p> <p><b>B</b> One (1) Sheet-Fab Paper Lower, Stan Lower Drawer Guide (P/N GU30-0025)</p> <p><b>C</b> One (1) Sheet-Fab Paper Upper, Stan Lower Drawer (P/N GU30-0024)</p> <p><b>D</b> Four (4) # 6-32 x 5/16 Screws (P/N SC56-0057).</p>	
<p>2. Position the Bezel with the flat side facing downwards and the lock hole on top. Take the Paper Lower Guide (P/N GU30-0025) and using two screws secure in position on the Bezel as illustrated in Figure 5-2 <b>A</b>.</p>	

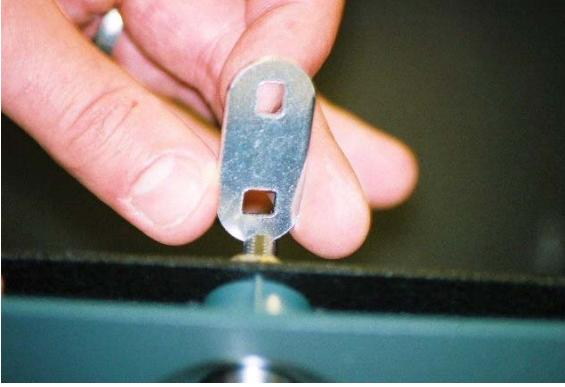
Lower Draw Assembly Procedure	
<p>3. Take the Paper Upper Guide (P/N GU30-0024), slide over the Paper Lower Guide and using the two remaining screws secure in position on either side. Refer Figure 5-3 <b>A</b> and <b>B</b>.</p>	
<p>4. Select a single Sheet- Fab Lower, Stan, MOD for 4 Inch Scanner, MAG RDR, BLK Tray (P/N SY35-0020-01). Turn the Tray on its side. Refer to Figure 5- 4.</p>	
<p>5. Select two (2) Drawer Slide, 12IN W/15IN EXT, Roller Guides (P/N GU90-0002) and eight (8) #10, 32 x ¼ Screws (P/N SC60-0012).</p> <p>6. Take the Drawer Slide Guides and push the button on the first slide <b>A</b> and remove the inner portion.</p>	

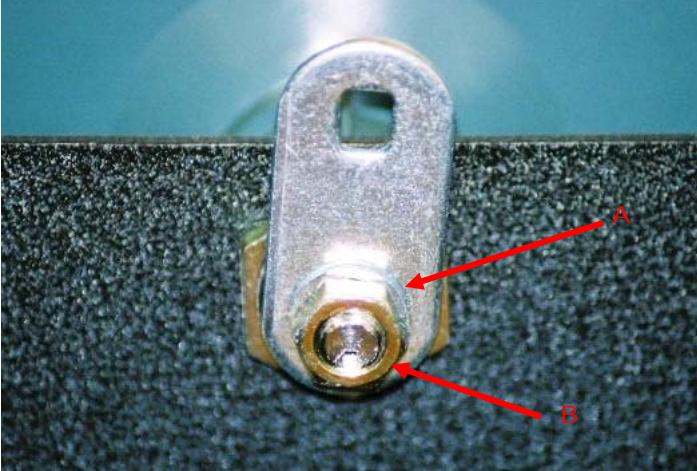
Lower Draw Assembly Procedure	
<p>7. Take the inner portion and position on the Lower Drawer Tray as illustrated in Figure 5-6 A.</p>	
<p>8. Using four (4) (P/N SC60-0012) screws secure the guide in position using a Phillips No. 2 Screwdriver.</p> <p>9. Repeat process with the second Draw Slide Guide and position on the opposite side of the Lower Drawer Tray. Firmly secure in place with the remaining four (4) screws.</p> <p><i>NOTE: Set aside the remaining parts of the Draw Slide Guides to be used later.</i></p>	

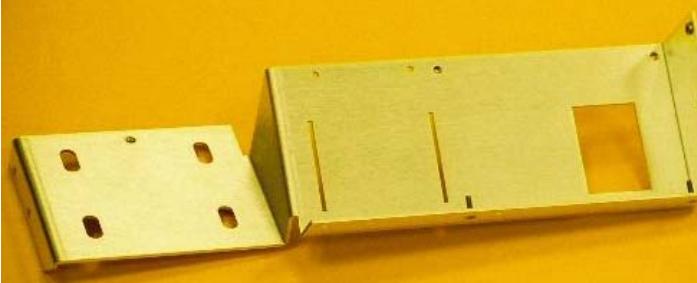
Lower Draw Assembly Procedure	
<p>10. Select two (2) Slide Security Brackets (P/N BR30-0082); and four (4) #4-40 x ¼ screws (P/N SC54-0009).</p> <p>11. Take one (1) of the Slide Security Brackets and position over the 2 pre-drilled through holes above the mounted drawer slide on the Lower Drawer Tray as shown in Figure 5-8 <b>A</b>. Secure in position as illustrated in Figure 5-8 <b>B</b>.</p>	
<p>12. Figure 5-9 <b>A</b> shows the two screws holding the bracket. Repeat with the remaining Slide and screws on the opposite side of the Lower Drawer Tray.</p>	

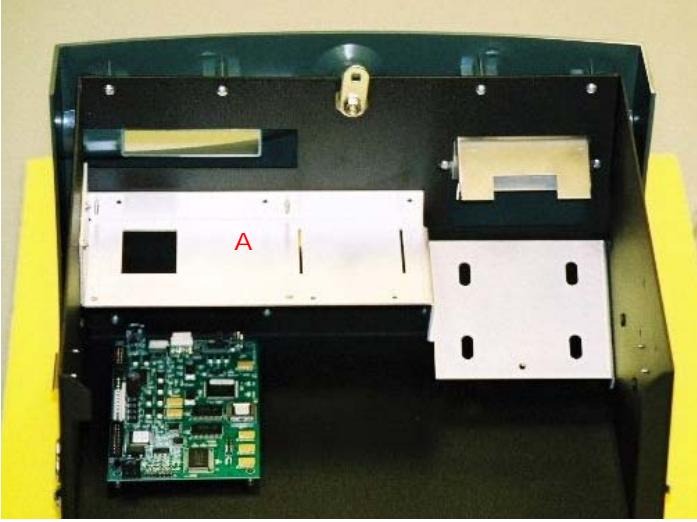
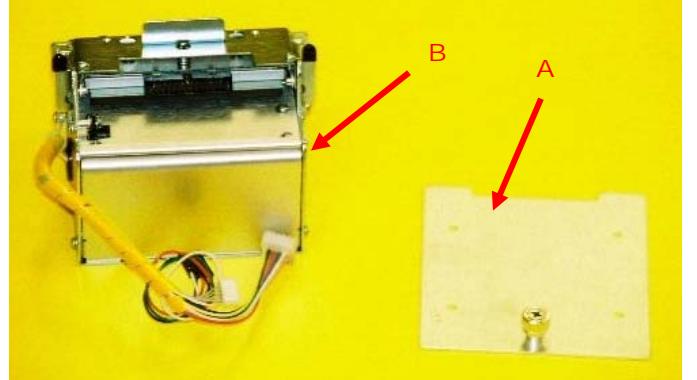
Lower Draw Assembly Procedure	
<p>13. The Bezel must be attached to the Lower Drawer Tray. Select eight (8) 6-32 x 5/16 screws (P/N SC56-0057).</p> <p>14. Take the Bezel and lining up the screw holes on the inside of the Tray; attach the Bezel to the front of Lower Drawer Tray. Refer to Figure 5-10.</p>	
<p>15. The ovals in Figure 5-11 illustrate the 8 receiving screw holes—4 in front and 4 at the back.</p>	

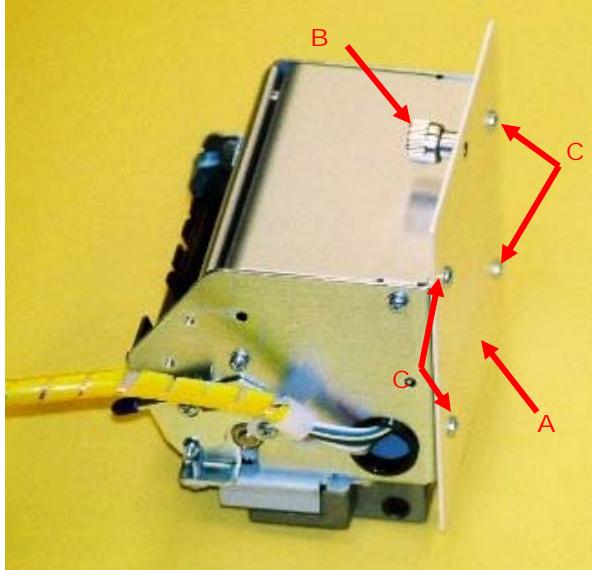
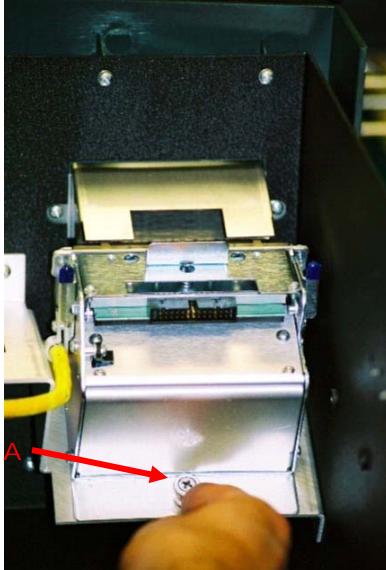
Lower Draw Assembly Procedure	
16. Figure 5-12 illustrates the Bezel attached to the Lower Drawer Tray.	
17. Select a Medeco Security, Keyed to 6M65501 with Lock Nut Lock (P/N LL65-0003) and one (1) lock, Medeco 1.25 IN D Series Flat CAM (P/N CM60-0002). As illustrated in Figure 5-13 the lock consists of three parts (not including the key).	
18. Take the Assembled Lower Drawer Tray Unit and position with the Bezel facing towards your Right.  19. Take the Lock and remove the Nut and small Lock Washer.  20. Insert the Key (P/N LL60-0006) into the Lock with the key positioned at the bottom of the lock as illustrated in Figure 5-14.	

Lower Draw Assembly Procedure	
21. Insert the lock into the hole on the Lower Door Tray (Bezel) as shown in Figure 5- 15.	
22. Take the larger locking nut and using a 7/8 socket tighten in position as illustrated in Figure 5-16.	
23. Take the Cam and slide into position onto the Lock as shown in Figure 5-17.	

Lower Draw Assembly Procedure	
<p>24. Refer to Figure 5-18. Next take the previously removed Washer <b>A</b> and Nut <b>B</b> and replace in that order – Washer and then Nut. Firmly tighten using a 7/16 Screw driver.</p>	
<p>25. Select a Guard (P/N GD40-0003) and mount it on the back pillars with the side to the chassis. Take an Assy Controller Small Scanner PCB (P/N PA15-0035). Position the Lower Drawer Tray with its front view facing the back and away from you. See Figure 5-19 <b>A</b>.</p>	

Lower Draw Assembly Procedure	
<p>26. Take the PCB and position on the 4 stand-offs on the floor of the Tray – snap into position.</p>	
<p>27. Select a Sheet-Fab Printer, Scanner, Mount, Stan, LWD DWR Bracket (P/N BR30-0147) as illustrated in Figure 5-21.</p> <p>28. Also select seven (7) 6-32 x 5/16 SEM Screws (P/N SC56-0057).</p>	
<p>29. Lining up the holes place the Bracket in position on the inside of the Lower Drawer Tray. Secure in position from the outside of the Tray as illustrated in Figure 5-22.</p>	

Lower Draw Assembly Procedure	
30. Figure 5-23 <b>A</b> illustrates how the Mount Bracket is to be positioned.	
31. Refer to Figure 5-24. Select one (1) Sheet- Fab Printer Mounting, Stan Plate (P/N PT30-0128) <b>A</b> and one (1) Assy, Printer, Stan 200DPI Print Head (P/N SA25-0001-04) <b>B</b> .	

Lower Draw Assembly Procedure	
<p>32. Refer to Figure 5-25. Align the Printer Mounting Plate <b>A</b> to the Base of the Printer with the knob <b>B</b> of the Plate facing towards the print head</p> <p>33. Attach the Mounting Plate to the Printer using four (4) 6-32 x ¼ screws (P/N SC56-0036) <b>C</b>. A Phillips No. 2 Screwdriver is used.</p>	
<p>34. Take the Printer Assembly and lining up the hole on the Mount Bracket place in position within the Lower Drawer Tray.</p> <p>35. Tighten the knob. Refer to Figure 5-26 <b>A</b>.</p>	

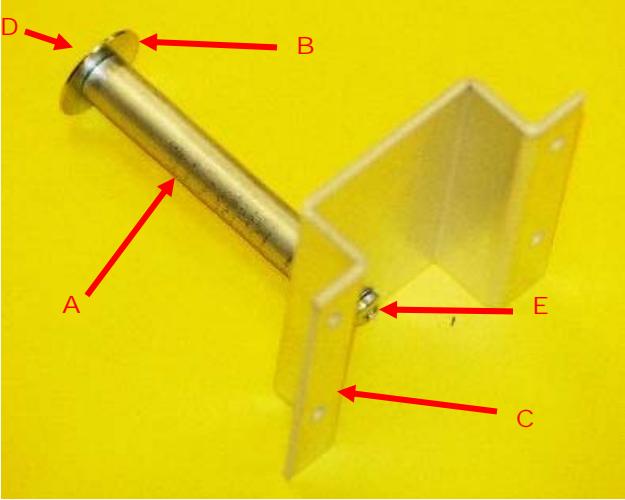
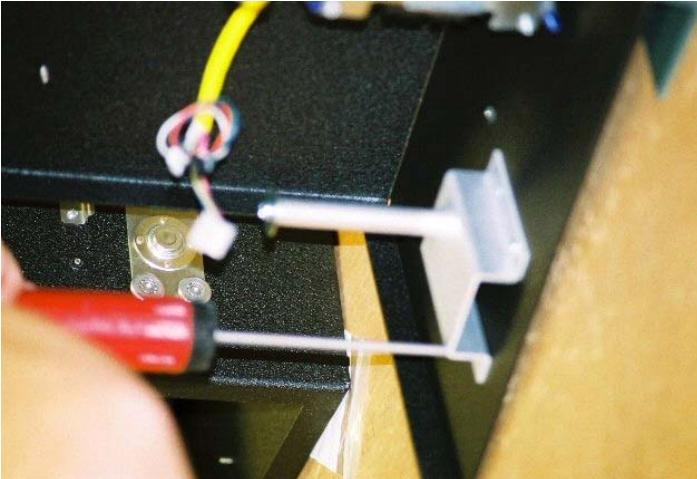
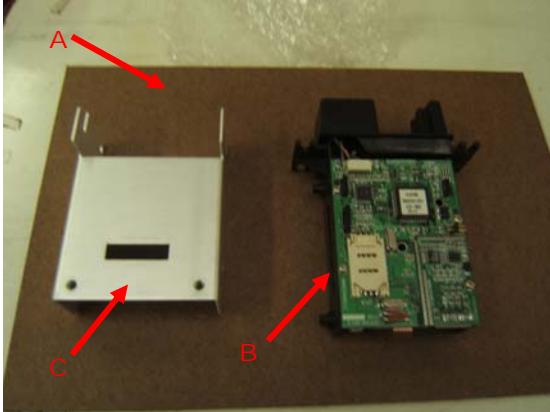
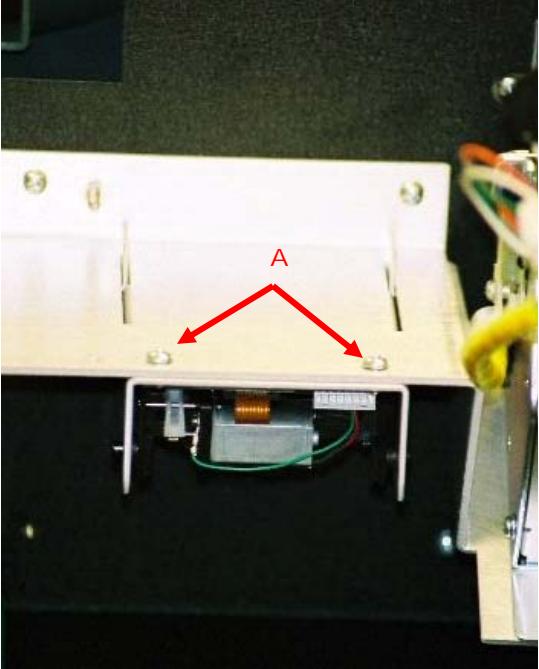
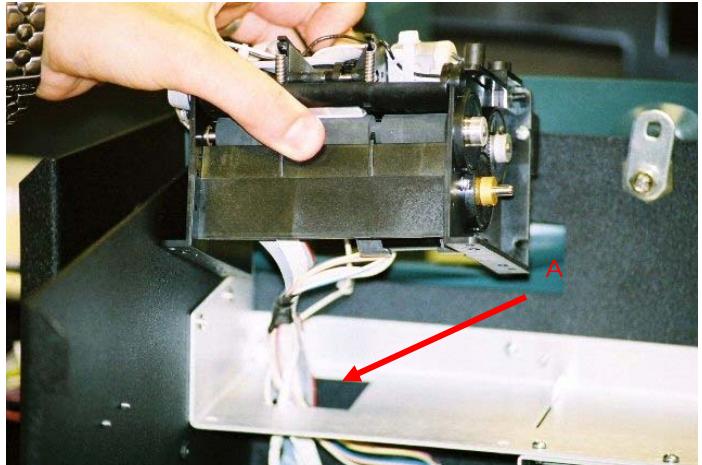
Lower Draw Assembly Procedure	
<p>36. Refer to Figure 5-27. Select:</p> <p><b>A</b> One (1) Machined Paper Stan Spindle (P/N SD10-0003)</p> <p><b>B</b> One (1) Spindle Washer (P/N WA90-0124)</p> <p><b>C</b> One (1) Sheet-Fab Paper, Stan, Lower Drawer Bracket (P/N BR30-0149)</p> <p>37. Also select two (2) #10-32 x3/8IN screws (P/N SC60-0003) and four (4) 6-32 x 5/16 screws (P/N SC56-0057).</p> <p>38. Take up the Spindle, Washer and one (1) SC60-0003 Screw <b>D</b>. Attach together in the order of Spindle, Washer, Screw. Take the Lower Drawer Bracket and the second SC56-0057 Screw <b>E</b>.</p>	

Figure 5-27

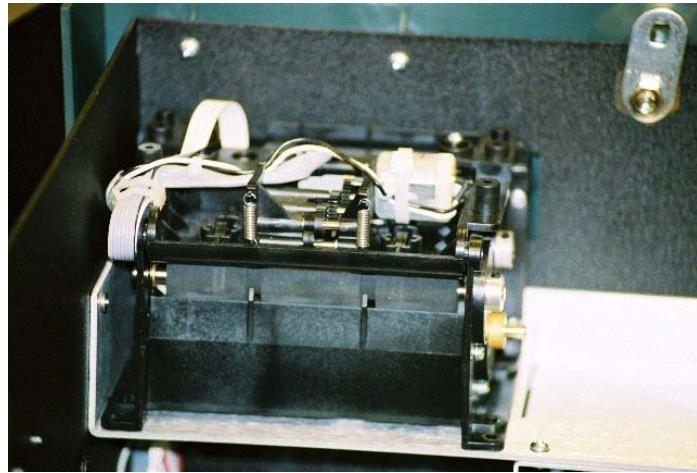
Lower Draw Assembly Procedure	
<p>39. Take the Spindle Bracket Assembly and the four (4) Screws (P/N SC56-0057). Attach the assembly to the inside of the left wall of the Lower Drawer (front Bezel view facing towards you). Refer to Figures 5-28 and 5-29.</p>	
	
<p>40. Turn the whole Lower Drawer onto its bottom side as shown in Figure 5-30 <b>A</b>.</p> <p>41. Select one (1) Smart Card, W/T Bezel Read Head (P/N RH60-0003) <b>B</b> and one (1) Sheet –Fab Mag Card Reader Mount, Stan Drawer Bracket (P/N BR30-0148) <b>C</b>.</p>	

Lower Draw Assembly Procedure	
	<b>Figure 5-30</b>
42. Attach the Read Head (Figure 5-30 <b>B</b> ) to the Magnetic Card Bracket as shown in Figure 5-31 <b>A</b> .	
43. Select two (2) 6-32 x 5/16 screws (P/N SC56-0057). Attach the Assembly to the underside of the Printer Scanner Mount Bracket (P/N BR30-0147)– slide it into position as illustrated in Figure 5-32 <b>A</b> .  The holes will line up if the assembly is correctly positioned.	

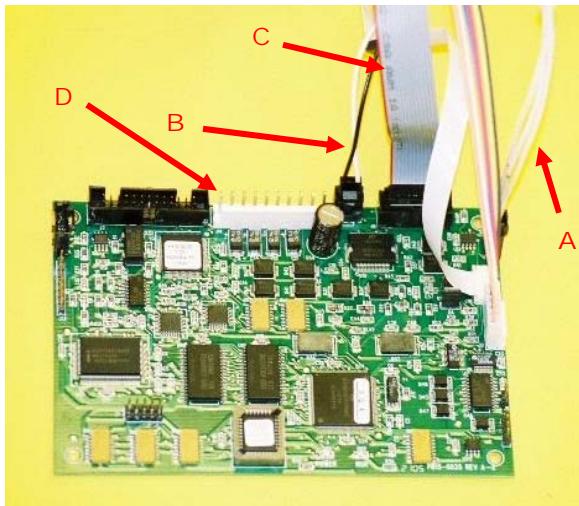
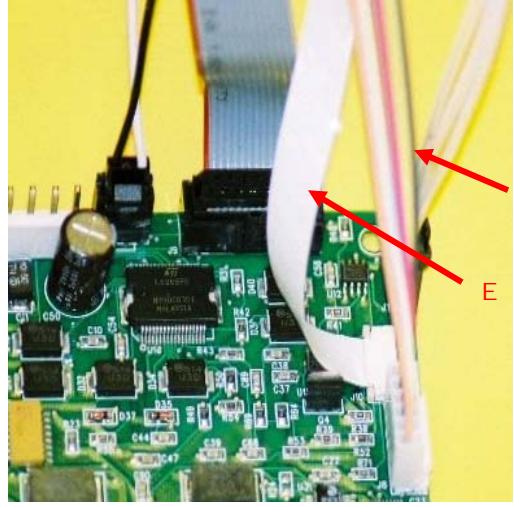
Lower Draw Assembly Procedure	
<p>44. Attach securely with the two (2) SC56-0057 Screws. Refer to Figure 5-33 <b>A</b>.</p>	
<p>45. Select one (1) pre-assembled 4IN Scanner, US (P/N SA30-0026). Align Bezel (P/N BZ20-0017) and secure using two (2) screws (P/N SC56-0007). Refer to Figure 5-34.</p> <p>46. Route the cables through the appropriate hole on the Scanner Mount Stan Bracket <b>A</b>.</p>	

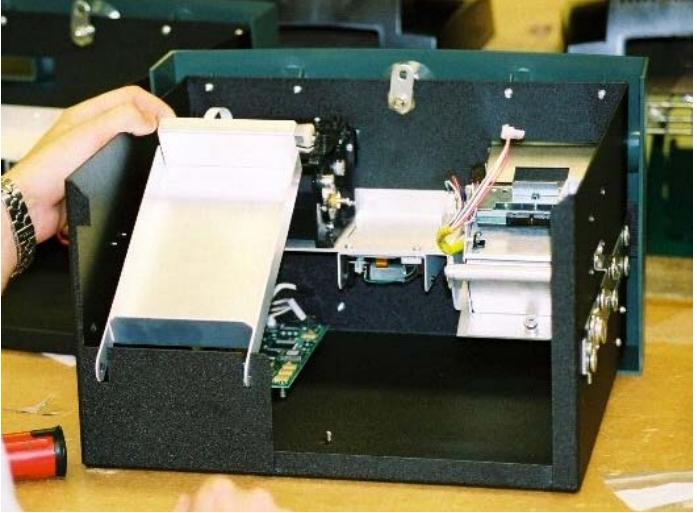
### Lower Draw Assembly Procedure

47. Line up the Scanner with the holes on the Mount Bracket and using two (2) 6-32 x 5/16 screws (P/N SC56-0057) secure the Scanner to the Mounting Bracket. See Figure 5-35.



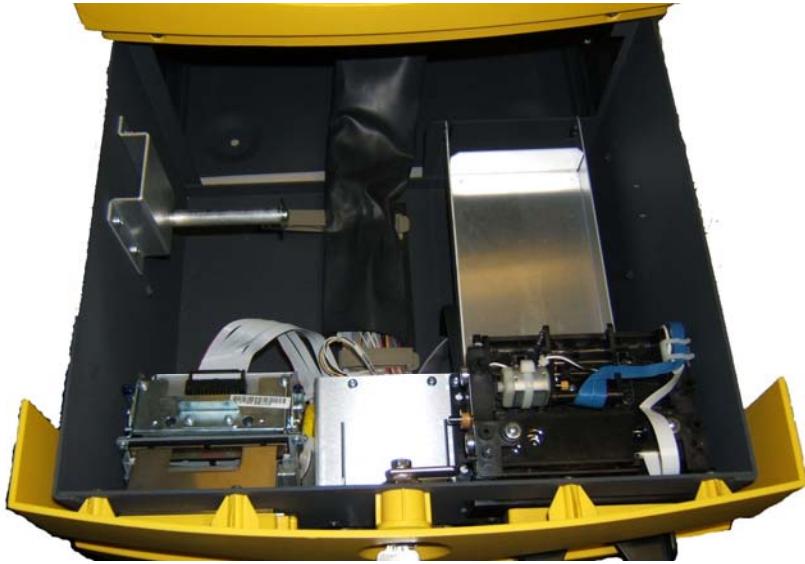
**Figure 5-35**

Lower Draw Assembly Procedure	
<p>48. Attach all the Cables to the PCB (P/N PA25-0013) as illustrated in Figures 5-35 and 5-36.</p> <p><b>A</b> CA05-0136 to J2 Document Input Sensor Cable</p> <p><b>B</b> CA05-0167 to J7 Scanner Brand Head Motor Cable</p> <p><b>C</b> CA20-0085 to J9 Brander Print Head Extension Cable</p> <p><b>D</b> CA05-0254 Scanner DC Power</p> <p><b>E</b> CA30-0004 to J10 (Silver side up)</p> <p><b>F</b> MT45-0045 to J8 Scanner Motor Connection</p>	
	<p><b>Figure 5-36</b></p> 
<p>49. Select one (1) Ticket Tray (not shown) (P/N SY45-0001), one (1) Ticket Box Bracket (P/N BR30-0150) as in Figure 5-38.</p>	

Lower Draw Assembly Procedure	
50. Position the Ticket Box Bracket on the Lower Drawer as shown in Figure 5-39.	
51. The Ticket Bracket is lowered into place as shown in Figure 5-40. The Ticket Cup (not shown) is set into the bracket.	

### Lower Draw Assembly Procedure

The Completed Lower Drawer Compartment Assembly is illustrated below in Figure 5-41



**Figure 5-41**

This completes the Lower Draw Assembly Process.



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# CHAPTER 6

## CABINET ASSEMBLY

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### Cabinet Assembly Parts List

The following parts are required to complete the Cabinet Assembly:

PART NUMBER	QTY	DESCRIPTION
CA05-0127	1	ASSY, CABLE (DISCRETE), EXTREMA BASE UNIT DC POWER, MOD
CA05-0254	1	ASSY, CABLE (DISCRETE), STAN, SCANNER DC POWER HARNESS
CA05-0256	1	ASSY, CABLE (DISCRETE), STAN, AC TO +24V POWER SUPPLY
CA05-0258	1	ASSY, CABLE (DISCRETE),STAN, PRINT SENSOR EXTENSION
CA05-0259	1	ASSY, CABLE (DISCRETE),STAN CUTTER EXTENSION
CA05-0260	1	ASSY, CABLE (DISCRETE),STAN,PRINT MOTOR EXTENSION
CA05-0261	1	ASSY, CABLE (DISCRETE),STAN,MAG/SMART CARD RDR TO INT BD
CA05-0263	1	ASSY, CABLE (DISCRETE),STAN,NEC DISPLAY
CA05-0266	1	ASSY, CABLE (DISCRETE), ICELAND STAN TOUCH SCREEN
CA20-0107	1	ASSY, CABLE (RIBBON),STAN,SCANNER DATA, SHIELDED
CA20-0108	1	ASSY, CABLE (RIBBON),STAN INTERFACE TO PRINthead, LONG
CA25-0035	1	ASSY, CABLE (MODULAR),T-568A STRAIGHT THRU ETHERNET CAT5E
CA40-0003	1	ASSY, CABLE (CUSTOM), STAN GROUND, SHORT
CA40-0004	2	ASSY, CABLE (CUSTOM), STAN GROUND, LONG
CA60-0011	1	CORD, POWER, IEC RA TO CEE7/7 2.5M 18 AWG 250V 10A
CL60-0006	1	CLAMP, CABLE, FLAT
CL60-0029	3	CLAMP, CABLE,FLAT CABLE CLAMP
CM60-0002	1	CAM, LOCK, MEDECO 1.25IN D SERIES FLAT
CM60-0003	1	CAM, LOCK, MEDECO 1.125IN H SERIES OFFSET
CV30-0040	1	CABINET MOUNTED DC POWER SUPPLY COVER, STAN
DR30-0007	1	DOOR (SHEET-FAB),REAR, DRAWER, PMS 432C
DR30-0007-01	1	DOOR (SHEET-FAB),REAR, DRAWER, PMS 432C
DR30-0008-01	1	DOOR (SHEET-FAB),ELECTRONICS, STAN
GU90-0002	2	GUIDE, DRAWER SLIDE, 12IN W/15IN EXT, ROLLER
HG10-0005	1	HINGE (CUSTOM), CONTINUOUS, STAN UPPER DOOR

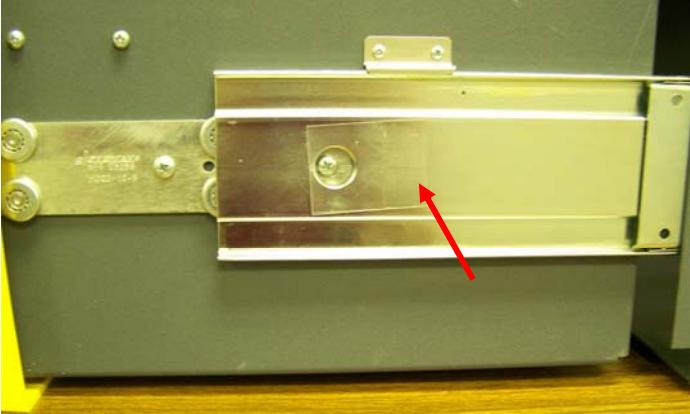
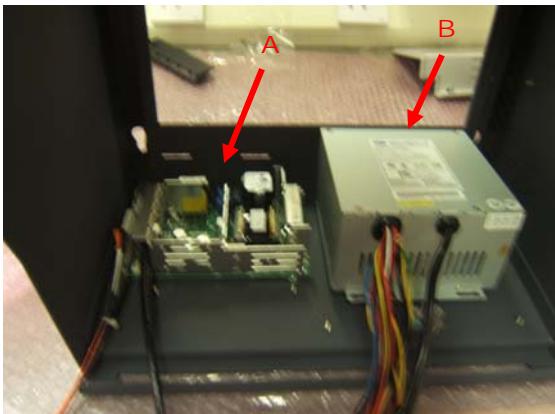
PART NUMBER	QTY	DESCRIPTION
HK60-0001	2	HANDLE, ABS, FLUSH POCKET PULL, SNAP-IN
ID65-0008	1	INDUCTOR, FERRITE CORE, ROUND CABLE, SPLIT W/CASE, DIA .41IN
LG15-0011	1	Label Power Supply Ratings
LG15-0035-02	1	Label Serial I.D.
LG25-0005	1	Label, main ground
LG25-0014	1	Label, warning STAN Battery
LG30-0021	1	Label Logo
LL60-0006	1	KEY, 6M265501, MEDECO SECURITY LOCK
LL60-0007	1	KEY, FOR LL65-0004, NORTHEAST LOCK 610S-98
LL65-0003	1	LOCK, MEDECO SECURITY, KEYED TO 6M265501 W/LOCK NUT
LL65-0004	1	LOCK, 0 TO 90 RIGHT TURN, DD .633 X .760
NU56-0001	11	NUT, #6-32 KEPS, HEX, ZINC PL
NU56-0003	6	NUT, #6-32, HEX, ZINC PL
NU58-0002	12	NUT, #8-32, LOW PROF, MACHINE SCREW, ZINC PL
PS60-0001	1	POWER SUPPLY, SWITCHING, 230WATT, PC AT
PS60-0002	1	POWER SUPPLY, SWITCHING, 24 VDC, 110 WATT
PT30-0135	1	PLATE (SHEET-FAB),CABLE PLATE, TOP
SC54-0009	1	SCREW, #4-40 X 1/4 TYPE SWAGEFORM PHILLIPS PAN HD, ZINC
SC54-0015	2	SCREW, #4-40 X 1/2, SEM INTERNAL PPH ZINC PL
SC56-0009	8	SCREW, #6-32 X 3/8IN, INTERNAL SEM PPH
SC56-0028	6	SCREW, #6-32 1/4 PPH MS ZIN PL
SP60-3601	1	SPACER,.870 O.D., .783 I.D., .182 WIDTH,.043 THICK
SP60-3602	1	SPACER,MEDECO,.87 O.D.,.783 ,I.D.,.135 WIDE,.043 THICK
SW80-0006	1	SWITCH, ROCKER, DPST
SY45-0001	1	TRAY (CUSTOM), CORRUGATED PLASTIC, STAN CANCELED TICKETS
TW80-0002	1	TUBING, HEAT SHRINK, IRRADIATED POLYOLEFIN, DIA3/8IN
TW80-0010	1	TUBING, HEAT SHRINK, IRRADIATED POLYOLEFIN, DIA1/2IN
		Mylar Guard, Drawer guide

## Cabinet Assembly Procedure

Perform the following steps to assemble the STAN Cabinet Assembly:

Cabinet Assembly Procedure	
1. With the cabinet on its base, insert handles (P/N HK60-0001).	

**Figure 6-1**

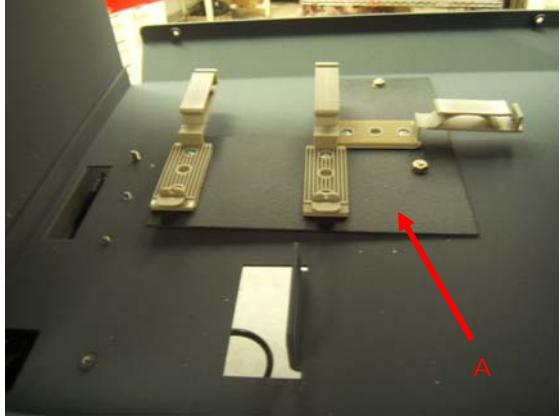
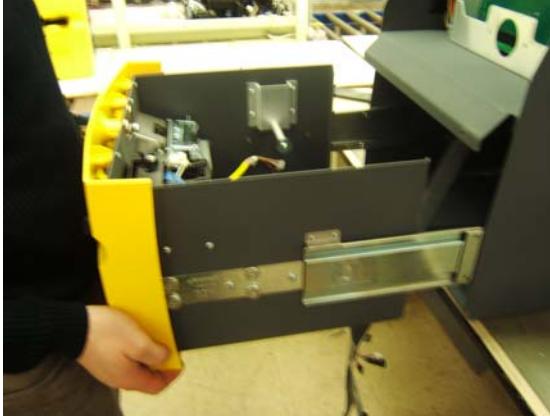
Cabinet Assembly Procedure	
<p>With the cabinet positioned on its side:</p> <ol style="list-style-type: none"><li>2. The outer guides (P/N GU90-0002) for the drawer are mounted on the frame of the lower compartment by nuts (P/N NUT58-0002). Ensure Loctite sealer is used.</li><li>3. Attached to the slide lock mechanism is a Mylar guard. Figure 6-3 shows the Mylar guard (P/N GD40-0001) in place with the drawer in place.</li></ol>	
	
<ol style="list-style-type: none"><li>4. Refer to Figure 6-4 With the cabinet still positioned on its side, the +24V power supply PCB (P/N PS60-002) (A) is mounted with screws (P/N SC56-0009).</li><li>5. The Multivolt power supply (P/N PS60-001) (B) is mounted with screws (P/N SC56-0009).</li><li>6. The power cord (P/N CA60-0011) is connected to the (P/N PS60-001) power supply.</li></ol>	

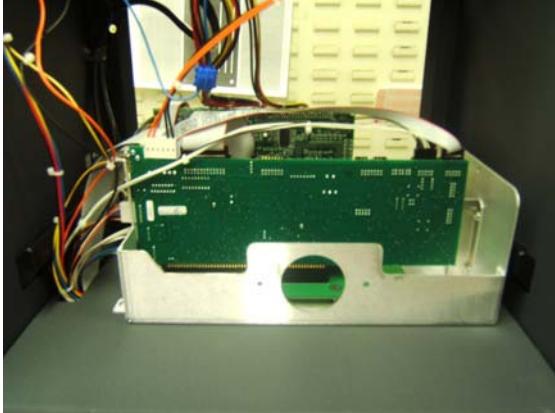
Cabinet Assembly Procedure	
<p>7. The power cable (P/N CA05-0256) and output cable (P/N CA05-0127) are connected to the 24 volt Power Supply.</p> <p>8. The guard (P/N CV30-0040) is mounted by nuts (P/N NU56-0001).</p>	
<p>9. The power cables are connected to the power switch (P/N SW80-0006). <i>NOTE: "0" is towards the back door.</i></p>	
<p>10. The grounds are clamped to the cabinet by a nut (P/N NUT56-0001)</p>	

Cabinet Assembly Procedure	
<p>11. The surplus power cable is clamped to the cabinet frame by a plastic clamp (P/N CL60-0006) and nut (P/N NUT56-0001) above the grounds.</p>	
<p>Mounting the lock:</p> <p>12. With the Door in an upright position, connect Spacer (P/N SP60-3601) to Lock (P/N LL65-004) and insert it through the lock hole on door (P/N DR30-0008-01) with the key access point towards the ground.</p>	
<p>13. Insert the key (P/N LL60-0006) in a vertical position and secure the mechanism with the large nut.</p> <p>14. Remove the cam (P/N CM60-0002) securing washer and screw.</p> <p>15. Mount the cam and secure with screw and washer.</p>	

Cabinet Assembly Procedure	
<p>Mounting the Door to the cabinet:</p> <p>16. With the door laying flat, ensure Loctite sealer is applied to all nut connections.</p> <p>17. Connect the Door (P/N DR30-0008) by the hinge (P/N HG10-0005)</p> <p><i>NOTE: make sure the orientation of the hinge is correct.</i></p>	
<p>18. The left hand side of the cabinet side of the hinge must accommodate the long ground cable (P/N CA40-0004) to the lower door (P/N DR30-0007). Secure with nut (P/N NU56-0001).</p> <p>19. The right hand side of the door side of the hinge must accommodate the short ground cable (P/N CA40-0003) from the PCB tray. Secure with nut (P/N NU56-0001).</p> <p>20. Secure all other positions with nut (P/N NU56-0001).</p> <p>21. The ground cable (P/N CA40-0003) is covered with tubing Heat Shrink (P/N TW80-0002).</p>	
<p>22. To mount the lock in the Lower Back Door Assembly, place the Door in an upright position.</p> <p>23. Connect Spacer (P/N SP60-3602) to lock (P/N LL65-0003) and insert it through the lock hole of the door (P/N DR30-0007-01) with the key access point towards the ground.</p>	

Cabinet Assembly Procedure	
<p>24. Insert the key (P/N LL60-0007) in a vertical position and secure the mechanism with the large nut.</p> <p>25. Remove the cam (P/N CM60-0003) securing washer and nut.</p> <p>26. Mount the cam (P/N CM60-0003) and secure with washer and nut.</p>	
<p>27. To attach the Door to the cabinet, place the Door in an upright position. Guide and mount the door onto the pillar and secure it with screw (P/N SC56-0009).</p>	
<p>28. Mount ground cable (P/N CA40-0004)</p> <p><i>NOTE: See Mounting Upper Door Assembly) to the door with nut (P/N NU56-0001.</i></p>	

Cabinet Assembly Procedure	
<p>29. To mount the cable harness securing plate, position the cabinet as shown in Figure 6-17.</p> <p>30. Attach the securing plate (P/N PT30-0135) <b>A</b> with Nut (P/N NU58-0001).</p>	
<p>31. To mount the Front Lower Drawer Assembly, position the cabinet as shown in Figure 6-18.</p> <p>32. Align the drawer slide and insert drawer into the slider mechanism.</p>	
<p>33. To mount the PCB Tray, place in cabinet as shown in Figure 6-19.</p> <p>34. The PCB tray is secured to the cabinet upper compartment by three (3) screws (P/N SC56-0009).</p> <p><i>NOTE: The screw to the rear on the mother board side must also accommodate the ground wire (P/N CA05-0003) for the rear upper door.</i></p>	

Cabinet Assembly Procedure	
<p>35. Connect the voltage cable to the interface board.</p> <p>36. Connect the voltage cables the backplane.</p> <p>37. Secure the surplus cables at the top at three points with clamps (P/N CL60-0006) and nuts (P/N NU56-0001).</p>	

**Figure 6-20**

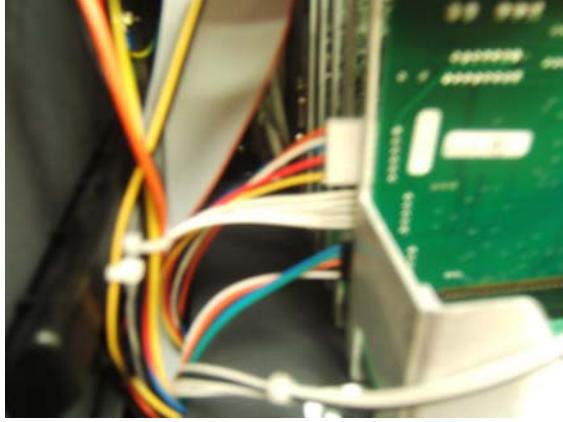
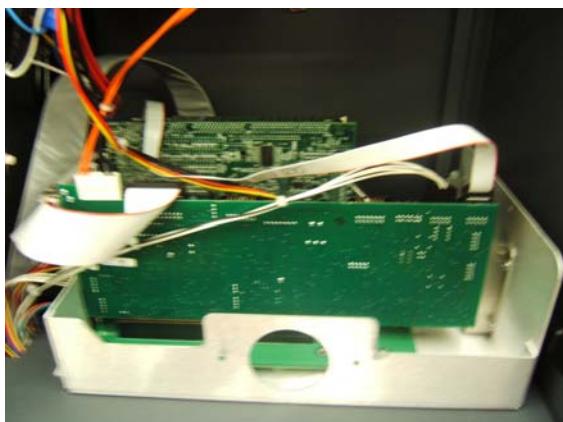
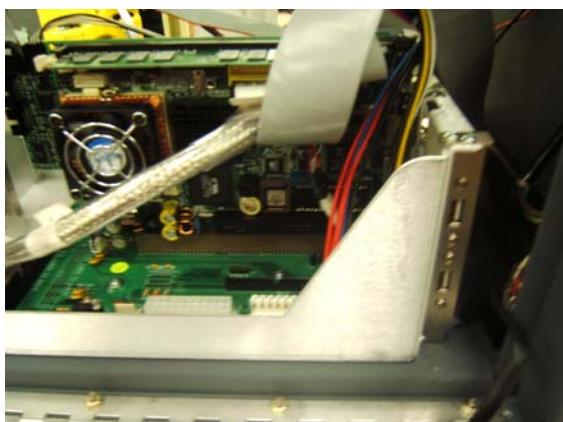
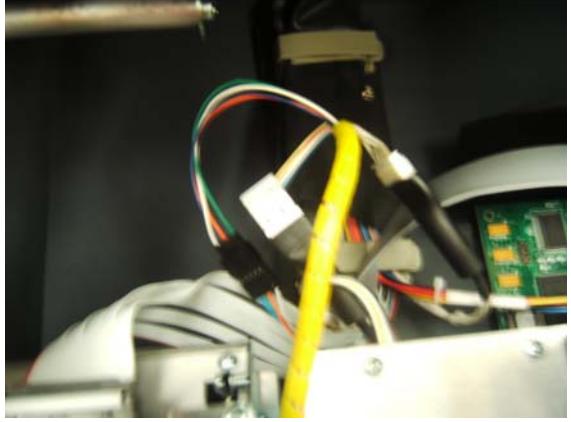
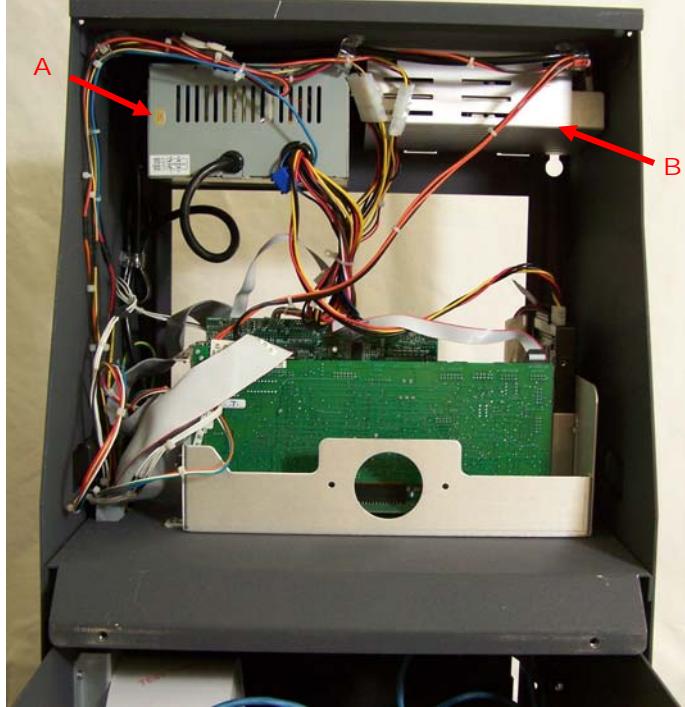
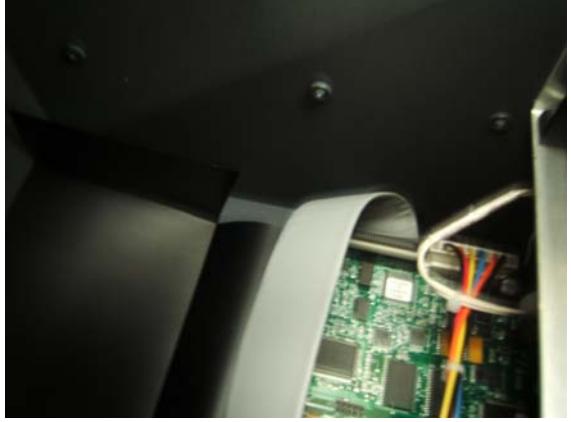
Cabinet Assembly Procedure	
Mounting the Cable Harness	
38. Connect the cables (on the upper compartment to the Interface and the Mother Board.	
	

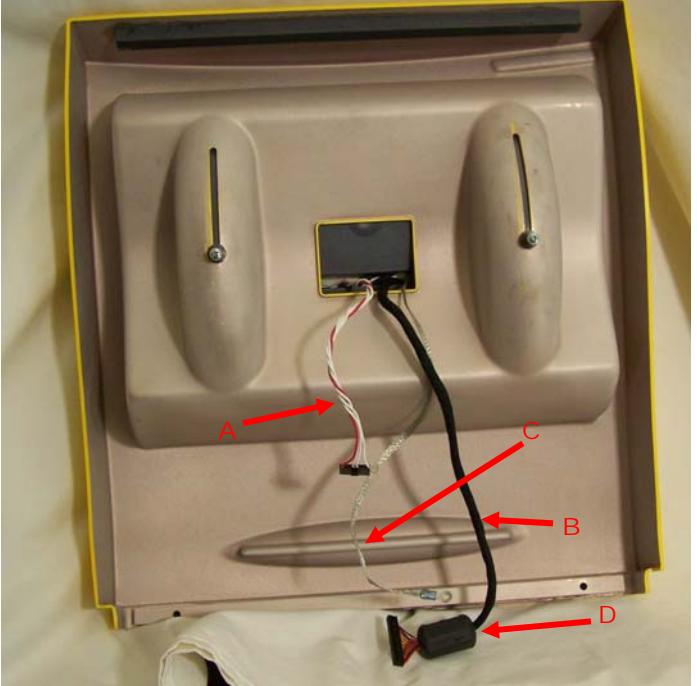
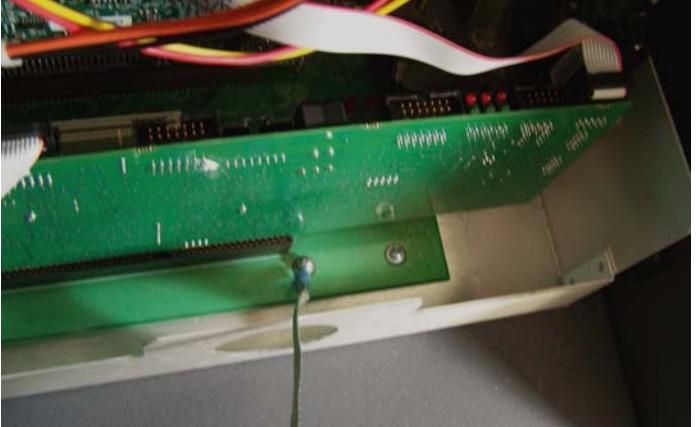
Figure 6-21

Figure 6-22

Figure 6-23

Cabinet Assembly Procedure	
39. Connect the cables (on the lower compartment to the Scanner Interface and Printer.	
40. Cabling Detail  41. Figure 6-25 A is the 230W power supply.  42. Figure 6-25 B is the 24V DC power supply.	 <b>Figure 6-25</b>

Cabinet Assembly Procedure	
43. Connect the power cable for the Scanner.	
44. Secure the cable harness on the upper and lower compartments to their plate with the clamps. 45. See figure 6-27 for lower cable harness.	
46. See Figure 6-28 for upper cable harness	

Cabinet Assembly Procedure	
<p>47. Figure 6-29 shows the rear view of the Display unit. The three cables shown are:</p> <ul style="list-style-type: none"><li>▪ <b>A</b> Touch Screen Cable (P/N CA05-0263)</li><li>▪ <b>B</b> Video Cable (P/N CA05-0266)</li><li>▪ <b>C</b> Ground Cable (P/N CA40-0004)</li><li>▪ <b>D</b> Inductor (Ferrite Bead) (P/N ID65-0008)</li></ul>	 <p>The image shows the rear panel of a display unit. A small LCD screen is mounted in the center. Four cables are connected to it: a red and white ribbon cable labeled 'A' pointing to the top left, a black cable labeled 'B' pointing to the bottom left, a black cable labeled 'C' pointing to the top right, and a black ferrite bead labeled 'D' pointing to the bottom right.</p>
<p>48. Figure 6-30 shows the Display Ground (P/N CA40-0004) attached to the Back Plane using a screw (P/N SC54-0015).</p>	 <p>The image shows a close-up of a green printed circuit board (back plane). A black ground wire is being attached to the board using a screw. The wire is held in place by a metal clip.</p>

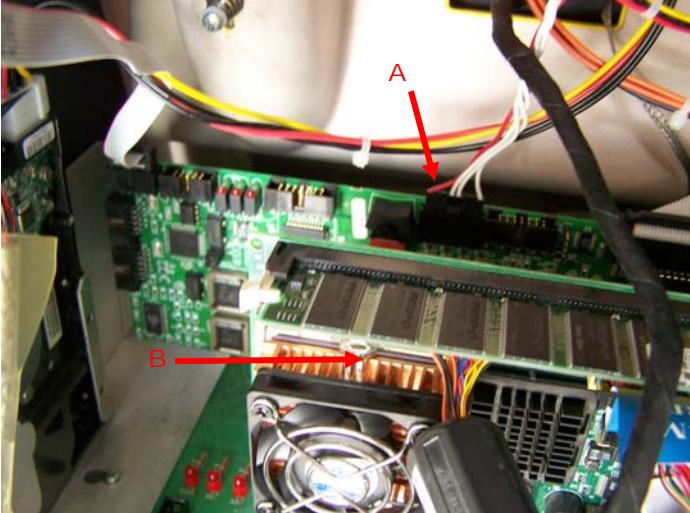
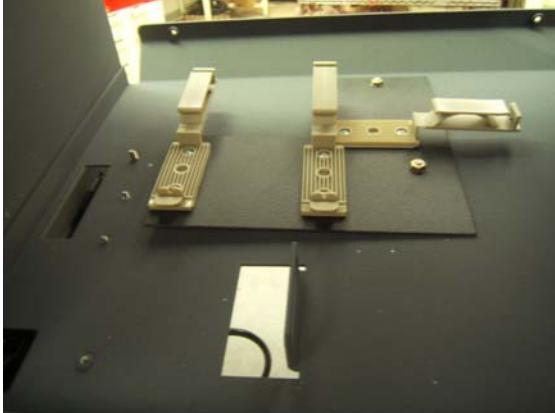
Cabinet Assembly Procedure	
<p>49. Figure 6-31 shows the other two connections for the Display.</p> <p>50. Connect cable (P/N CA05-0263) to the interface board <b>A</b>.</p> <p>51. Connect Cable (P/N CA05-0266) to the Mother Board <b>B</b>.</p> <p>Ensure that inductor (P/N ID65-0008) is on the cable.</p>	
<p>52. Mount the assembly onto the top of the cabinet using the top guide to set it in place.</p>	

Figure 6-32

Cabinet Assembly Procedure	
53. Set the Display unit in place and secure with two (2) screws (P/N SC60-0006). See Figure 6-33 <b>A</b> .	
54. The USB Ports are mounted the unit to the rear of the tray and secured with screw (P/N SC54-0009).	
55. The RJ45 cable (P/N CA25-0035) is connected to the mother board and run to the lower compartment where the surplus cable is stored in the ticket bin (P/N SY45-0001).	

Cabinet Assembly Procedure	
<p>56. Figure 6-36 shows the proper exit point for the network cable. This is the same exit point used for the VGA cable for the second video card.</p>	
<p><b>Cable Harness Assembly</b></p> <p>57. All cables connecting the upper and lower compartments are set in a harness with the ribbon cables to the base. This is then set into heat-shrink wrap that is clamped on the drawer and on the roof of the lower compartment. The clamps are mounted on plates that are secured to pillars on the cabinet with screws.</p> <p>58. The following is a list of the cables included in the harness; enclosed in 1.5 feet of heat shrink tubing (P/N TW80-0010)*1.5'</p> <p>Cable (P/N CA20-0107)</p> <p>Cable (P/N CA20-0108)</p> <p>Cable (P/N CA05-0258)</p> <p>Cable (P/N CA05-0259)</p> <p>Cable (P/N CA05-0260)</p> <p>Cable (P/N CA05-0254)</p> <p>Cable (P/N CA05-0261)</p>	

Cabinet Assembly Procedure	
<p>59. The upper Cable Harness Securing Plates Assembly is shown in Figure 6-40.</p> <p>Plate (P/N PT30-0135)</p> <p>Clamps (3) (P/N CL60-0029)</p> <p>Screws (6) (P/N SC56-0028)</p> <p>Nuts (6) (P/N NU56-0003)*6</p> <p>Mounted on the plate are clamps that are secured with screws (P/N SC56-0028) and nut (P/N NU56-0003).</p>	
<p>60. The Lower Securing Plate Assembly is shown in Figure 6-41.</p> <p>Plate (P/N PT30-0136)*1</p> <p>Clamps (2) (P/N CL60-0029)</p> <p>Screw (4) (P/N SC56-0028)</p> <p>Nuts (4) (P/N NU56-0003)</p> <p>Mounted on the plate are clamps that are secured with screws (P/N SC56-0028) and nut (P/N NU56-0003).</p>	

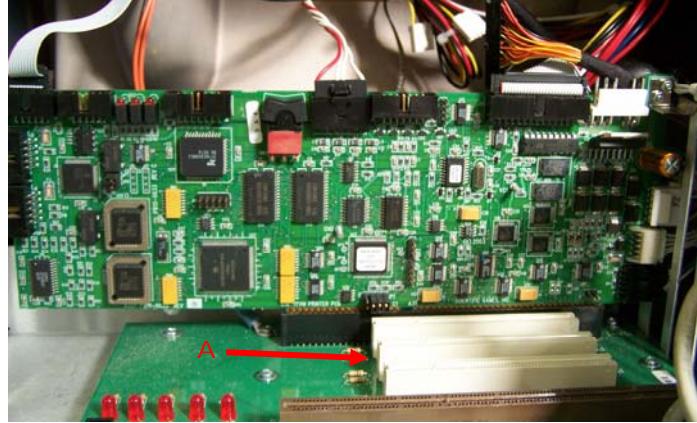
This completes the STAN Cabinet Assembly Process.

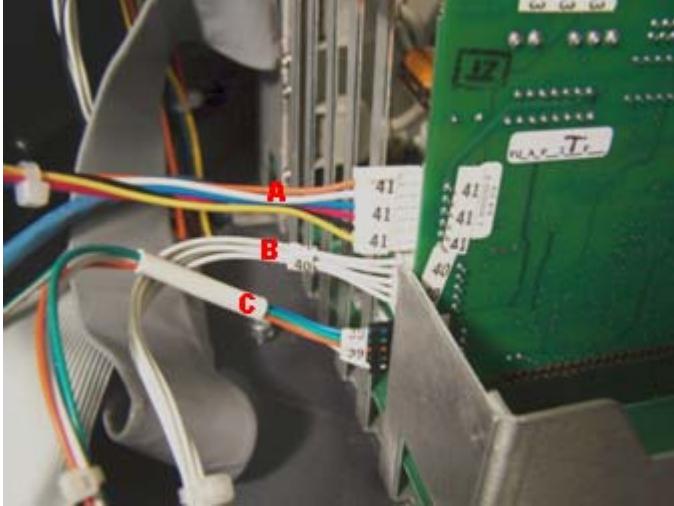
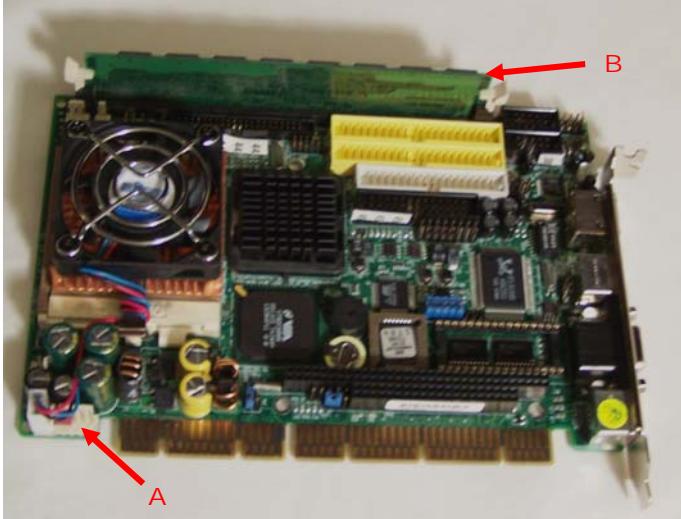
# CHAPTER 7

## CIRCUIT BOARDS AND CONNECTIONS

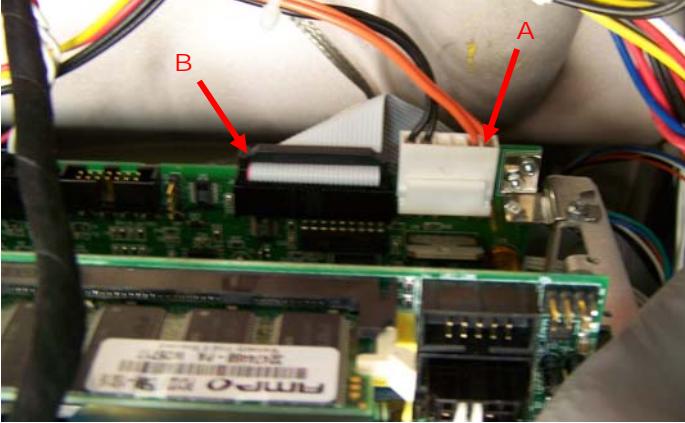
### Circuit Boards and Connections Details

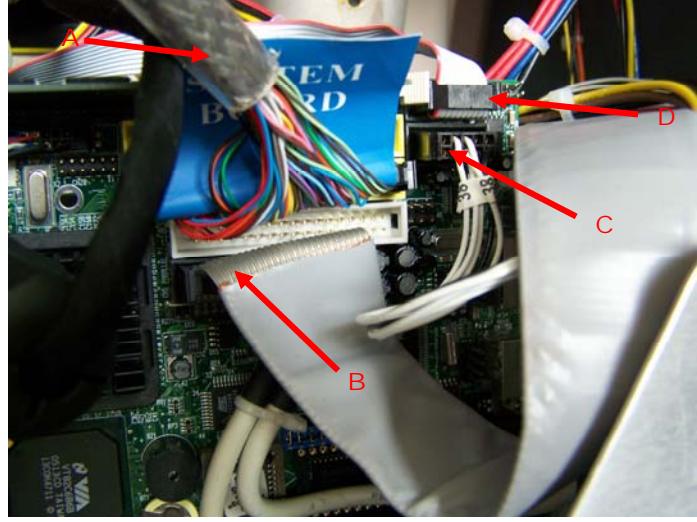
The following figures detail the circuit boards and their connections.

Circuit Boards and Connections	
<ol style="list-style-type: none"><li>1. There are three (3) PCI slots on the Backplane. See Figure 7-1.</li><li>2. The middle PCI slot <b>A</b> is for the second Video Board.</li></ol>	 <p>Figure 7-1 shows a close-up view of a green printed circuit board (backplane). The board is densely populated with surface-mount components, including integrated circuits, resistors, and capacitors. Several connectors are visible, including a large black connector at the bottom right and a smaller one on the left. A red arrow points to the middle PCI slot, which is highlighted in the image. The board is surrounded by other components and cables, suggesting it is part of a larger electronic assembly.</p>
<ol style="list-style-type: none"><li>3. The second Video Board (P/N PA65-0041) is shown in Figure 7-2.</li></ol>	 <p>Figure 7-2 shows a black PCI Express video card. The card features a central processing unit (CPU) and several memory modules (RAM). On the right side, there is a DVI-I connector. The card is mounted on a light-colored surface, and its backplane connection is visible at the bottom.</p>

Circuit Boards and Connections	
<p>4. Figure 7-3 shows the following connections:</p> <p><b>A</b> Printer Motor Cable (P/N CA05-0260) connects to jack 41.</p> <p><b>B</b> STAN cutter extension (P/N CA05-0259) connects to jack 40.</p> <p><b>C</b> Print Sensor Cable (P/N CA05-0258) connects to jack 39.</p>	 <p>The photograph shows a close-up of a green printed circuit board (PCB). Three wires are connected to specific pins on the board. Red arrows labeled 'A', 'B', and 'C' point to these connections. Label 'A' points to a multi-colored wire connecting to pin 41. Label 'B' points to a white wire connecting to pin 40. Label 'C' points to a blue wire connecting to pin 39. The PCB has several other components and labels visible, such as 'NEAR TE' and '41' repeated multiple times.</p>
<p>Mother Board (P/N PA50-0020-01)</p> <p>5. Figure 7-4 <b>A</b> shows the power connection for the fan.</p> <p>6. Figure 7-4 <b>B</b> points to the Memory Module (P/N IC78-0010).</p>	 <p>The photograph shows a green Mother Board (PA50-0020-01) with various electronic components. Two red arrows point to specific parts: arrow 'A' points to a power connection for the fan, and arrow 'B' points to a Memory Module (IC78-0010). The board features a central processor, RAM chips, and a fan with a heatsink.</p>

Circuit Boards and Connections	
<p>USB connection</p> <p>61. The connector is positioned so that the four (4) pins to the left of the connector are not used. See Figure 7-5.</p> <p><b>A</b> USB connector  <b>B</b> Unused pins  <b>C</b> Connector for Scanner I/F cable  <b>D</b> Connector for Hard Drive cable</p>	
<p>62. Refer to Figure 7-6</p> <p><b>A</b> Comm Port 1 connection  <b>B</b> Touch Screen connection</p>	

Circuit Boards and Connections	
<p>63. Refer to Figure 7-7</p> <p><b>A</b> Video connection to Mother Board</p> <p><b>B</b> Ferrite Bead (ID65-0008) on Video cable</p>	
<p>64. See Figure 7-8</p> <p><b>A</b> 24 Volt connection for peripherals</p> <p><b>B</b> Printer I/F cable</p>	

Circuit Boards and Connections	
<p>65. See Figure 7-9. Hard drive connections:</p> <p><b>A</b> Data cable <b>B</b> Power cable</p>	
<p>66. Figure 7-10 shows the cables plugged into the connectors identified in a previous figure.</p> <p><b>A</b> Hard Drive cable <b>B</b> Scanner I/F cable <b>C</b> Comm Port 2 (Mag Reader) <b>D</b> Comm Port 1</p>	

Circuit Boards and Connections	
<p>67. Figure 7-11 shows both the network cable and the VGA cable for the second display as they exit the cabinet.</p> <p><b>A</b> Network cable</p> <p><b>B</b> VGA cable</p>	

This completes the Circuit Boards and Connections section.

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# CHAPTER 8

## IF/COM PCI XP EMBEDDED TERMINAL BIOS SETTINGS

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### Standard CMOS Setup

Floppy Drive A:	Not Installed	
Floppy drive B:	Not Installed	
Pri Master:	Auto 32-bit	Mode: ON
Pri Slave:	Auto 32-bit	Mode: ON
Sec Master:	Auto 32-bit	Mode: ON
Sec Slave:	Auto 32-bit	Mode: ON
Boot Sector Virus Protection:	Disabled	

## Advanced CMOS Setup

Quick Boot:	Enabled
Pri Master ARMD Emulated as:	Auto
Pri Slave ARMD Emulated as:	Auto
Sec Master ARMD Emulated as:	Auto
Sec Slave ARMD Emulated as:	Auto
USB ARMD Emulated as:	Auto
1 <sup>st</sup> Boot Device:	Diskl ed
2 <sup>nd</sup> Boot Device:	IDE-0
3 <sup>rd</sup> Boot Device:	Diskl ed
Try Other Boot Devices:	Yes
S. M. A. R. T for Hard Disks:	Enabled
BootUp Num-Lock:	On
Floppy Drive Swap:	Diskl ed
Floppy Drive Seek:	Diskl ed
PS/2 Mouse Support:	Enabled
Primary Display:	VGA/EGA
Password Check:	Setup
Boot To OS/2:	No
CPU MicroCode Updation:	Enabled
CPU Serial Number:	Diskl ed
L1 Cache:	Enabled
L2 Cache:	Enabled
System BIOS Cacheable:	Enabled
C000, 32k Shadow:	Cached
C800, 16k Shadow:	Diskl ed
CC00, 16k Shadow:	Diskl ed
D000, 16k Shadow:	Diskl ed
D400, 16k Shadow:	Diskl ed
D800, 16k Shadow:	Diskl ed
DC00, 16k Shadow:	Diskl ed

## Advanced Chipset Setup

Configure SDRAM Timing by SPD:	Enabled
DRAM Frequency:	133 Mhz
SDRAM CAS# Latency:	3
DRAM Bank Interleave:	Enabled
Memory Hole:	Disabled
AGP Mode:	4x
AGP Fast Write:	Enabled
AGP Aperture Size:	64MB
AGP Master 1 W/S Write:	Enabled
AGP Master 1 W/S Read:	Enabled
Search for MDA Resources:	Yes
PCI Delay Transaction:	Disabled
ISA Bus Clock:	PCI CLK/4
USB Controller:	All USB Port
USB Device Legacy Support:	All Device
Port 64/60 Emulation:	Disabled
ATX Power Supply:	Disabled

## Power Management Setup

ACPI Aware O/S:	No
ACPI Standby State:	Auto
USB Device Wakeup From S3-S5:	Disabled
Re-Call VGA BIOS at S3 Resuming:	Disabled
Power Management/APM:	Disabled
Video Power Down Mode:	Disabled
Hard Disk Power Down Mode:	Disabled
Standby Time Out (Minute):	Disabled
Suspend Time Out (Minute):	Disabled
Throttle Slow Clock Ratio:	50%-56. 25%
Display Activity:	Ignore
I RQ3:	Monitor
I RQ4:	Monitor
I RQ5:	Ignore
I RQ7:	Monitor
I RQ9:	Ignore
I RQ10:	Ignore
I RQ11:	Ignore
I RQ13:	Ignore
I RQ14:	Monitor
I RQ15:	Ignore
System Thermal :	Disabled
Thermal Active Temperature:	65°C/149°F
Thermal Slow Clock Ratio:	50%-56. 25%
Power Button Function:	On/Off
Restore on AC/Power Loss:	Last State
Resume on Ring:	Disabled
Resume on LAN:	Disabled
Resume on PME#:	Disabled
Resume on KBC:	N/A
Wake-Up Key:	N/A
Wake-Up Password:	N/A
Resume On PS/2 Mouse:	N/A
Resume On RTC Alarm:	Disabled
RTC Alarm Date:	15
RTC Alarm Hour:	12
RTC Alarm Minute:	30
RTC Alarm Second:	30

## PCI/Plug and Play Setup

Plug and Play Aware O/S:	No
Clear NVRAM:	No
OnChip VGA Frame Buffer Size:	32MB
PCI Latency Timer (PCI Clocks):	64
Primary Graphics Adapter:	OnChip AGP
Boot Screen Select:	Both CRT & LCD
LCD Panel Type:	1. 800x600 TFT
PCI IDE BusMaster:	Enabled
OffBoard PCI IDE Card:	Auto
OffBoard PCI IDE Primary IRQ:	Disabled
OffBoard PCI IDE Secondary IRQ:	Disabled
DMA Channel 0:	PnP
DMA Channel 1:	PnP
DMA Channel 3:	PnP
DMA Channel 5:	PnP
DMA Channel 6:	PnP
DMA Channel 7:	PnP
IRQ3:	PCI /PnP
IRQ4:	PCI /PnP
IRQ5:	ISA/EISA
IRQ7:	PCI /PnP
IRQ9:	ISA/EISA
IRQ10:	ISA/EISA
IRQ11:	PCI /PnP
IRQ12:	PCI /PnP
IRQ14:	PCI /PnP
IRQ15:	ISA/EISA

## Peripheral Setup

OnBoard FDC:	Disabled
OnBoard Serial Port1:	3F8/COM1
OnBoard Serial Port2:	2F8/COM2
Serial Port2 Mode:	Normal
Duplex Mode:	N/A
OnBoard Parallel Port:	378
Parallel Port Mode:	ECP
ECP Version:	N/A
Parallel Port DMA Channel:	3
Parallel Port IRQ:	7
OnBoard IDE:	PRI MARY
OnBoard AC'97 Audio:	Disabled
OnBoard Leagacy Audio:	Disabled
Sound Blaster:	Disabled
SB I/O Base Address:	220h-22fh
SB IRQ Select:	5
SB DMA Select:	1
MPU-401:	Disabled
MPU-401 I/O Address:	330h-333h

# APPENDIX A

## STAN PARTS LIST

PART NUMBER	QTY	DESCRIPTION	UNIT OF MEASURE
AD60-0004	5	TAPE, ADHESIVE, VHB, DBL SIDE, 1/4 IN X .010 IN	FT
BC80-0002	1	CHAIN, POLYURETHANE, 32 PITCH, 51 PITCHES X .195IN	PC
BE60-0001	2	BEARING, ROLLER, ID.1875IN-OD3/8IN X 1/8IN, DBL SHLD, FLNGD	PC
BE70-0007	4	BEARING, SLEEVE, OILITE, OD3/8IN X ID1/4IN X 3/16IN	PC
BG10-0002	1	BUSHING (MACHINED), DELRIN, PRINTER IDLER SHAFT, SHORT	PC
BG10-0003	1	BUSHING (MACHINED), DELRIN, PRINTER IDLER SHAFT, LONG	PC
BG60-0001	1	BUSHING, SHORTY, NYLON, ID5/8IN/MD3/4IN X 1/4IN	PC
BG90-0002	1	BUSHING, FLX-P BRUSHES, FLX-10, 4 IN LENGTH, FIBER-COND ARC	PC
BL70-0020	1	BALLAST, BACKLIGHT INVERTER, LXM 1623-12-61, MICRO SEMI	PC
BR30-0037-01	1	BRACKET (SHEET-FAB), GALVANNEALED, PRINTHD PIVOT PLATE, MOD	PC
BR30-0038-01	1	BRACKET (SHEET-FAB), GALVANNEALED, PRINTHD PRESSURE PLT, MOD	PC
BR30-0039	1	BRACKET (SHEET-FAB), GALVANNEALED, PRINTER MOTOR MOUNTING	PC
BR30-0040	1	BRACKET (SHEET-FAB), ALUM, PRINTER LOWER GUIDE	PC
BR30-0067	1	BRACKET (SHEET-FAB), GALVANNEALED, EXTREMA PRINTHD GRASPING	PC
BR30-0082	2	BRACKET (SHEET-FAB), SS, SLIDE SECURITY	PC
BR30-0147	1	BRACKET (SHEET-FAB),PRINTER,SCANNER,MOUNT,STAN,LWR DWR	PC
BR30-0148	1	BRACKET (SHEET-FAB),MAG CARD READER MOUNT, STAN DRAWER	PC
BR30-0149	1	BRACKET,SPINDLE (MACHINED), PAPER SPINDLE, STAN	PC
BR30-0150	1	BRACKET (SHEET-FAB),TICKET BOX	PC
BR30-0152	1	BRACKET (SHEET-FAB), STAN DISPLAY MT.	PC
BR60-0008	1	BRACKET, PCB MOUNTING, ISA SLOT	PC
BZ20-0006-13	1	BEZEL (MOLDED) STAN TOP, PMS 116C	PC
BZ20-0017	1	BEZEL (MOLDED), SMALL DOC SCANNER, BLACK	PC
BZ20-0021	1	BEZEL (MOLDED), CYCOLOY, STAN LOWER DRAWER, NO BILL,PMS116C,	PC
CA05-0127	1	ASSY, CABLE (DISCRETE), EXTREMA BASE UNIT DC POWER, MOD	PC
CA05-0136	1	ASSY, CABLE (DISCRETE), SCANNER DOCUMENT INPUT SENSOR	PC
CA05-0137	1	ASSY, CABLE (DISCRETE), SCANNER BRAND HEAD MOTOR	PC

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PART NUMBER	QTY	DESCRIPTION	UNIT OF MEASURE
CA05-0254	1	ASSY, CABLE (DISCRETE), STAN, SCANNER DC POWER HARNESS	PC
CA05-0256	1	ASSY, CABLE (DISCRETE), STAN, AC TO +24V POWER SUPPLY	PC
CA05-0258	1	ASSY, CABLE (DISCRETE),STAN, PRINT SENSOR EXTENSION	PC
CA05-0259	1	ASSY, CABLE (DISCRETE),STAN CUTTER EXTENSION	PC
CA05-0260	1	ASSY, CABLE (DISCRETE),STAN,PRINT MOTOR EXTENSION	PC
CA05-0261	1	ASSY, CABLE (DISCRETE),STAN,MAG/SMART CARD RDR TO INT BD	PC
CA05-0263	1	ASSY, CABLE (DISCRETE),STAN,NEC DISPLAY	PC
CA05-0266	1	ASSY, CABLE (DISCRETE), ICELAND STAN TOUCH SCREEN	PC
CA05-0354	1	ASSY, CABLE (DISCRETE), STAN II PAPER LOW	PC
CA20-0107	1	ASSY, CABLE (RIBBON),STAN,SCANNER DATA, SHIELDED	PC
CA20-0108	1	ASSY, CABLE (RIBBON),STAN INTERFACE TO PRINthead, LONG	PC
CA20-0109	1	ASSY, CABLE (RIBBON),SERIAL,CPU TO INTERFACE	PC
CA25-0035	1	ASSY, CABLE (MODULAR),T-568A STRAIGHT THRU ETHERNET CAT5E	PC
CA30-0004	1	ASSY, CABLE (FLAT FLEX), PERIPHERAL IMAGING 4 INCH CIS DATA	PC
CA40-0003	1	ASSY, CABLE (CUSTOM), STAN GROUND, SHORT	PC
CA40-0004	2	ASSY, CABLE (CUSTOM), STAN GROUND, LONG	PC
CA40-0004	1	ASSY, CABLE (CUSTOM), STAN GROUND, LONG	PC
CA60-0011	1	CORD, POWER, IEC RA TO CEE7/7 2.5M 18 AWG 250V 10A	PC
CA90-0124	1	CABLE, OEM,HD,JACKETED,IDE CABLE 12? ATA100	PC
CB30-0002-02	1	CABINET (SHEET-FAB), ALUM, STAN ENHANCED MAIN, PMS432C	PC
CH20-0001-01	1	CHASSIS (MOLDED), 4IN SCANNER MAIN, US	PC
CH30-0001-01	1	CHASSIS (SHEET-FAB), GALVANNEALED, PRINTER, MODIFIED	PC
CH30-0004-01	1	CHASSIS (SHEET-FAB), ALUM, STAN ELECTRONICS, EXTR. M/B	PC
CL20-0001	1	CLAMP (MOLDED), CONNECTOR CLINCHER	PC
CL60-0001	1	CLAMP, CABLE, 5/16 DIA NATURAL NYLON	PC
CL60-0005	2	CLAMP, CABLE, 3/4IN X 3/4IN, ADHESIVE, ABS, 4-WAY MOUNT	PC
CL60-0006	1	CLAMP, CABLE, FLAT	PC
CL60-0013	2	CLAMP, CABLE, NYLON, .23IN WIRE CLEARANCE, 5/16IN MTG HOLE	PC
CL60-0014	2	CLAMP, CABLE, NYLON, .44IN WIRE CLEARANCE, 5/16IN MTG HOLE	PC
CL60-0020	1	CLAMP, CABLE, NYLON, SPLIT FLAT	PC
CL60-0026	4	CLAMP, CABLE,.625 ?DIAMETER,SCREW MOUNT	PC
CL60-0026	1	CLAMP, CABLE,.625 ?DIAMETER,SCREW MOUNT	PC
CL60-0029	5	CLAMP, CABLE,FLAT CABLE CLAMP	PC

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PART NUMBER	QTY	DESCRIPTION	UNIT OF MEASURE
CL60-0029	5	CLAMP, CABLE,FLAT CABLE CLAMP	PC
CM30-0001	1	CAM (SHEET-FAB), ZINC PLATED STEEL, STAN ELECTRONICS DOOR	PC
CM60-0002	1	CAM, LOCK, MEDECO 1.25IN D SERIES FLAT	PC
CM60-0003	1	CAM, LOCK, MEDECO 1.125IN H SERIES OFFSET	PC
CR94-0007	2	CONN SCREW LOCK, BLACK, 2IN, THUMB SCREW	PC
CV30-0040	1	CABINET MOUNTED DC POWER SUPPLY COVER, STAN	PC
DM55-0018	1	DISPLAY, LCD COLOR, LG PHILLIPS 12.1, SVG AFT LCD	PC
DR30-0007	1	DOOR (SHEET-FAB),REAR, DRAWER, PMS 432C	PC
DR30-0008	1	DOOR (SHEET-FAB),ELECTRONICS, STAN	PC
DV60-0010	1	DRIVE, HARD DISK, MAXTOR FIREBALL 3 ATA/133 40 GB, 5400 RPM	PC
GD40-0001	2	GUARD (CUSTOM), MYLAR W/ADHESIVE, STAN DRAWER SLIDE	PC
GD40-0003	1	GUARD (CUSTOM),STAN SMALL SCANNER BOARD	PC
GD60-0004		GUARD, FAN, STEEL ROUND, 1.65IN CENTERS, FOR 55MM FANS	
GE14-0001	1	GEAR (MACHINED), SPUR, BRASS 8 TEETH, 48 PITCH	PC
GE24-0003	2	GEAR (MOLDED), SPUR, DELRIN, 4IN SCANNER COMPOUND	PC
GE24-0004	1	GEAR (MOLDED), SPUR, DELRIN, 4IN SCANNER, W/CAM	PC
GE24-0005	2	GEAR (MOLDED), SPUR, DELRIN, 60T 48P, 1/4 BORE, 4IN SCANNER	PC
GE24-0006	1	GEAR (MOLDED), SPUR, DELRIN, 60T 48P 5MM BORE, 4IN SCANNER	PC
GE64-0002	1	GEAR, SPUR, ALUM, 48 PITCH, 22 TEETH, 3/16 BORE	PC
GU20-0007	1	GUIDE (MOLDED), POLYCARBON, PRINTER PAPER	PC
GU20-0020-02	1	GUIDE (MOLDED), LEXAN, 4IN SCANNER SCANHEAD MTG, PIC, US	PC
GU20-0023	1	GUIDE (MOLDED), POLYCARBONATE, 4IN SCANNER UPPER	PC
GU30-0024	1	GUIDE (SHEET-FAB),PAPER UPPER, STAN LOWER DRAWER	PC
GU30-0025	1	GUIDE (SHEET-FAB),PAPER, LOWER, STAN LOWER DRAWER	PC
GU30-0031	2	GUIDE (SHEET-FAB), 4in scanner read head	EA
GU90-0002	2	GUIDE, DRAWER SLIDE, 12IN W/15IN EXT, ROLLER	PC
HG10-0005	1	HINGE (CUSTOM), CONTINUOUS, STAN UPPER DOOR	PC
HK60-0001	2	HANDLE, ABS, FLUSH POCKET PULL, SNAP-IN	PC
HU20-0021-05	1	HOUSING (MOLDED), STAN DISPLAY FRONT, PMS 432C	PC
HU20-0022-05	1	HOUSING (MOLDED), STAN DISPLAY BACK, PMS432C	PC
IC78-0010	1	Memory Module	PC
ID65-0008	1	INDUCTOR, FERRITE CORE, ROUND CABLE, SPLIT W/CASE, DIA .41IN	PC
LG10-0002	1	LABEL (CUSTOM), CERTIFICATION, MET LABS UL/CSA, PROBE L/STAN	PC

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PART NUMBER	QTY	DESCRIPTION	UNIT OF MEASURE
LG15-0005	1	LABEL (CUSTOM), IDENTIFICATION, UL/CSA MAIN GROUND	PC
LG15-0011	1	LABEL (CUSTOM), IDENTIFICATION, STAN POWER SUPPLY RATINGS	PC
LG15-0035-02	1	LABL,RATGS,SERL,ID, STAN,SG,EXTREMA ELECT.,FOREIGN MADE/TERM	PC
LG25-0014	1	LABEL (CUSTOM), WARNING, STAN BATTERY	PC
LG30-0021	1	LOGO (CUSTOM), SCIENTIFIC GAMES	PC
LL45-0005-L	1	LATCH (CUSTOM), PRINthead, LEFT - MAX3000 PRINTER	PC
LL45-0005-R	1	LATCH (CUSTOM), PRINthead RIGHT - MAX 3000 PRINTER	PC
LL60-0006	1	KEY, 6M265501, MEDECO SECURITY LOCK	PC
LL60-0007	1	KEY, FOR LL65-0004, NORTHEAST LOCK 610S-98	PC
LL65-0003	1	LOCK, MEDECO SECURITY, KEYED TO 6M265501 W/LOCK NUT	PC
LL65-0003	1	LOCK, MEDECO SECURITY, KEYED TO 6M265501 W/LOCK NUT	PC
LL65-0004	1	LOCK, 0 TO 90 RIGHT TURN, DD .633 X .760	PC
LM65-0003	3	LAMP, LED, T1 RA BILEVEL HIGH EFFICENCY, RED/GREEN	PC
MT45-0003	1	MOTOR (CUSTOM), STEPPER, W/12IN LDS & 6 POS MTA CONN, PROBE	PC
MT45-0005	1	MOTOR (CUSTOM), W/CRIMP-N-POKE CONN, 8IN SCANNER	PC
MT60-0002	1	MOTOR, STEPPER, 1.65IN SQ, SINGLE SHAFT, W/ 6 12IN LEADS	PC
MT60-0002	1	MOTOR, STEPPER, 1.65IN SQ, SINGLE SHAFT, W/ 6 12IN LEADS	PC
MT75-0003	1	MOTOR, DC, 12V CARBON BRUSH 24 MM 5700 RPM 74 G-CM	PC
NU52-0001	2	NUT, #2-56, HEX, ZINC PL	PC
NU54-0001	4	NUT, #4-40 KEP	PC
NU56-0001	15	NUT, #6-32 KEPS, HEX, ZINC PL	PC
NU56-0003	10	NUT, #6-32, HEX, ZINC PL	PC
NU58-0001	2	NUT, #8-32 KEP	PC
NU58-0002	12	NUT, #8-32, LOW PROF, MACHINE SCREW, ZINC PL	PC
PA15-0033	1	ASSY, PCB, CONTROLLER, ITVM, LH W/ NEW CABLE LAYOUT	PC
PA15-0035	1	ASSY, PCB, CONTROLLER, SMALL SCANNER	PC
PA25-0013	1	ASSY, PCB, ADAPTER, MINI TERMINAL READER INPUT SENSOR	PC
PA65-0041	1	Second PCI Video Board	PC
PA70-0010	1	PCB, OEM INTERFACE, PCI IO BOARD, 24 IO	PC
PH60-0001	1	PRINT HEAD, THERMAL, 96 DOT 24MM 100 DPI, SERIAL, 16.5IN	PC
PH60-0005	1	PRINT HEAD, THERMAL 640 DOT 80MM 200 DPI, SERIAL, ROHM	PC
PM10-0004	1	CARTON (CUSTOM), STAN, 19-7/8 X 19-7/8 X 30-3/8IN	PC

PART NUMBER	QTY	DESCRIPTION	UNIT OF MEASURE
PM20-0006	1	INSERT SET, CARTON (CUSTOM), STAN FOAM TOP & BOTTOM	ST
PM65-0005	1	BAG, 4IN X 6IN ZIPLOCK W/WHITE BLOCK	PC
PN65-0001	2	PIN, DOWEL, SS, OD1/8IN X 3/8IN	PC
PS60-0001	1	POWER SUPPLY, SWITCHING, 230WATT, PC AT	PC
PS60-0002	1	POWER SUPPLY, SWITCHING, 24 VDC, 110 WATT	PC
PT20-0004-L	1	PLATE (MOLDED), POLYCARB, 4IN SCANNER BRANDER GEARING, LEFT	PC
PT20-0004-R	1	PLATE (MOLDED), POLYCARB, 4IN SCANNER BRANDER GEARING, RIGHT	PC
PT20-0005	1	PLATE (MOLDED), DELRIN, 4IN SCANNER PRINthead SUPPORT	PC
PT30-0020	1	PLATE (SHEET-FAB), ALUM, PRINTER UPPER GUIDE	PC
PT30-0040	2	PLATE (SHEET-FAB), CRS, 8IN SCANNER MAGNET LATCHING	PC
PT30-0051	1	PLATE (SHEET-FAB), ALUM, ROHM PRINthead SHIM	PC
PT30-0128	1	PLATE (SHEET-FAB),PRINTER MOUNTING, STAN	PC
PT30-0135	1	PLATE (SHEET-FAB),CABLE PLATE, TOP	PC
PT30-0136	1	PLATE (SHEET-FAB),CABLE PLATE, DRAWER	PC
PT60-0002	4	PLATE, BARIUM FERRITE, MAGNET W/CENTER HOLE	PC
PT60-0003	4	PLATE, ZINC PLATED STEEL, MAGENT POLE PIECE W/CENTER HOLE	PC
RH60-0003	1	READ HEAD, SMART CARD, W/T BEZEL	PC
RH65-0009	1	READ HEAD, OPTICAL, ANALOG, 88MM, 200DPI, +5V	PC
RL10-0012	1	ROLLER (MACHINED), MAX 3000 PRINT	PC
RL10-0017	2	ROLLER (MACHINED), NITRILE, 4IN SCANNER DRIVE	PC
RL10-0018	2	ROLLER (MACHINED), DELRIN, 4IN SCANNER PRESSURE	PC
RR60-0007	2	E-RING, STEEL, 1/4IN SHAFT	PC
RR60-0008	1	E-RING, 3/16 ID .145, OD .335, .025 TKH	PC
RR90-0006	2	RING, RETAINING, CIRCULAR PUSH-ON	PC
SA05-0003-08	1	ASSY, COMPARTMENT, STAN ELECTRONICS W/PROC UPG, ICELANDPPRLW	PC
SA05-0004-11	1	ASSY, COMPARTMENT,LOWER DRAWER,NO BILL ACC,RDR,PMS116C	PC
SA15-0003-07	1	ASSY, DISPLAY, STAN 12.1 COLOR LCD,SHARP, 432C HOUSING	PC
SA15-0369	1	ASSY, DISPLAY, STAN, BRKT/LG 12.1 LCD/INVERTER	PC
SA25-0001-04	1	ASSY, PRINTER, STAN, 200DPI PRINthead	PC
SA30-0026	1	ASSY, READER, AUTOTOTE 4IN SCANNER, US	PC
SA40-0001	1	ASSY, CUTTER, 90 MM 24 VDC FULL CUT	PC
SA90-0024	1	ASSY, 4IN SCANNER, BRANDER PRESSURE	PC

PART NUMBER	QTY	DESCRIPTION	UNIT OF MEASURE
SA90-0292	1	ASSY,SBC MOTHERBOARD V 1.2B, BACKPLANE, MEMORY, CABLES	PC
SA90-0330	1	ASSY, PCI IO BOARD WITH 10K PULL UP ON PORT C	PC
SC52-0002	2	SCREW, #2-56 X 1/4IN PHIL PAN HD MACHINE	PC
SC52-0008	4	SCREW, #2 X 1/4, PFH SHEETMETAL, SS	PC
SC54-0001	2	SCREW, #4-40 X 3/4, PPH ZINC PL	PC
SC54-0009	39	SCREW, #4-40 X 1/4 TYPE SWAGEFORM PHILLIPS PAN HD, ZINC	PC
SC54-0013	4	SCREW, #4-24 X 1/4 PPH HI-LOW	PC
SC54-0015	2	SCREW, #4-40 X 1/2, SEM INTERNAL PPH ZINC PL	PC
SC54-0021	2	SCREW, #4 -40 X 3/8 SEM PPH	PC
SC54-0027	4	SCREW, #4-40 X 1/4 IN PPH SEM	PC
SC54-0047	3	SCREW, #4-20 X 1/4, PFH HI-LO, ZINC PL	PC
SC54-0048	2	SCREW, #4-40 X 1/2, PPH ZINC PL	PC
SC54-0056	4	SCREW, #4-40 X 5/8 PPH W/EXT TOOTH LOCK WASHER, ZP	PC
SC56-0006	3	SCREW, #6-32 X 3/16IN, HEX SOCKET, BLACK OXIDE, CUP PT, SET	PC
SC56-0007	2	SCREW, #6-19 X 3/8 PHIL HD BLUNT PT STEEL ZINC PL TY PE H-L	PC
SC56-0009	8	SCREW, #6-32 X 3/8IN, INTERNAL SEM PPH	PC
SC56-0009	12	SCREW, #6-32 X 3/8IN, INTERNAL SEM PPH	PC
SC56-0027	7	SCREW, #6-32 X 1/2IN SEM, PPH, W/EXT STAR WASHER CHAMFER PT	PC
SC56-0028	10	SCREW, #6-32 1/4 PPH MS ZIN PL	PC
SC56-0036	1	SCREW, #6-32 X 1/4 PPH SWAGEFORM	PC
SC56-0037	2	SCREW, #6-32 X 7/8 PHIL PAN HD, ZINC PL	PC
SC56-0057	27	SCREW,6-32 X 5/16 SEM	PC
SC60-0003	2	SCREW, #10-32 X 3/8IN, PPH SEM, ZINC PL	PC
SC60-0006	2	SCREW, #10-32 X 1IN PFH, ZINC PL	PC
SC60-0012	8	SCREW, #10, 32X1/4 PHIL PAN HD MS ZINC PL	PC
SC73-0004	3	SCREW, M3 X 5 SEM PPH, ZINC PL, W/INT TOOTH WASHER 6.3MM OD	PC
SC73-0005	4	SCREW, M3 X 6 SEMS, INT TOOTH PHIL PAN HEAD ZINC PL	PC
SD10-0003	1	SPINDLE (MACHINED), PAPER SPINDLE, STAN	PC
SG10-0002	2	SPRING (CUSTOM), COMPRESSION, MUSIC WIRE, STAN DISPLAY PIVOT	PC
SG20-0003	2	SPRING (CUSTOM), EXTENSION, MUSIC WIRE, HEAD LATCH	PC
SG20-0004	2	SPRING (CUSTOM), EXTENSION, MUSIC WIRE, 4IN SCANNER BRANDER	PC
SG40-0007	2	SPRING (CUSTOM), MW, 4IN SCANNER PRESSURE ROLLER	PC
SG60-0002	3	SPRING, COMPRESSION, .024 DIA MUSIC WIRE, .180 OD, .375 LG	PC

PART NUMBER	QTY	DESCRIPTION	UNIT OF MEASURE
SG60-0007	2	SPRING, COMPRESSION	PC
SH10-0008-01	1	SHAFT (MACHINED), STAINLESS, MAX3000 PRINTER ASSY, IDLER	PC
SH10-0011	1	SHAFT (MACHINED), PRINthead LATCH - MAX 3000	PC
SH10-0018	1	SHAFT (MACHINED), SS, 4IN SCANNER BRANDER CAM	PC
SN45-0002	1	SENSOR (CUSTOM), MAX 3000 PAPER OUT	PC
SN70-0001	1	SENSOR, OPTICAL, PAPER OUT W/19IN LEADS	PC
SN70-0015	1	SENSOR, OPTICAL, REFLECTIVE NON-FOCUSED 300UA, IR , TH	PC
SP60-3598	1	SPACER, NYLON UNTHRD RND SPACER 5/16IN OD, 1/8IN LG,#10 ID	PC
SP60-3601	1	SPACER,.870 O.D., .783 I.D., .182 WIDTH,.043 THICK	PC
SP60-3602	1	SPACER,MEDECO,.87 O.D.,.783 ,I.D.,.135 WIDE,.043 THICK	PC
SP60-3603	4	SPACER,UNTHREADED,7/16 X 3/8 X .218	PC
SR20-0001	1	SPROCKET (MOLDED), DELRIN, 32P-24T, ID3/16IN, D	PC
SR20-0003	1	SPROCKET (MOLDED), DELRIN, 32P-24T, 15MM, D	PC
SW62-0034	1	SWITCH, PUSH BUTTON MOMENTARY, OMRON D3K-B	PC
SW80-0005	1	SWITCH, ROCKER, SPDT MOMENTARY, RA, PC MOUNT	PC
SW80-0006	1	SWITCH, ROCKER, DPST	PC
SY35-0020	1	TRAY (SHEET-FAB),LOWER,STAN,MOD FOR 4 INCH SCNR,MAG RDR	PC
SY45-0001	1	TRAY (CUSTOM), CORRUGATED PLASTIC, STAN CANCELED TICKETS	PC
TS70-0009	1	TOUCHSCREEN, FLAT-PANEL, 12.1, .062IN, RES, W/HARDENED GLASS	PC
TW60-0001	101	TIE WRAP, NYLON, 3.9IN, .10 IN WIDTH, .87 IN MAX DIA	PC
TW60-0002	1	TIE WRAP, NYLON, 7.9IN, .19 WIDTH, 1.75 MAX DIA	PC
TW60-0006	1	TIE WRAP HOLDER, NYLON, 4-WAY, 1/2 X 1/2 X 1/8IN, ADH MOUNT	PC
WA52-0001	2	WASHER, #2, SPLITLOCK, ZINC PLATE	PC
WA54-0003	26	WASHER, #4, STEEL INT LOCK, .255 OD .125 ID	PC
WA56-0007	1	WASHER, #6 .375 O.D. X .156 I.D. X .049 THK, TYPE A PLAIN	PC
WA56-0007	2	WASHER, #6 .375 O.D. X .156 I.D. X .049 THK, TYPE A PLAIN	PC
WA73-0001	1	WASHER, M3, ID.13IN/OD.28IN X .023IN, PLATED BRASS OR EQUIV	PC
WA90-0004	2	WASHER, NYLON, OD.312/ID.187/HD.140IN X THK.094/SHLD.R.062IN	PC
WA90-0005	2	WASHER, NYLON, OD.500/ID.375/HD.145IN X THK.094/SHLD.R.063IN	PC
WA90-0006	1	WASHER, NYLON, OD.437IN/ID.195IN X .040IN	PC
WA90-0013	2	WASHER, THRUST ID.255 X OD.375 X .005THK, STAINLESS STL	PC
WA90-0124	1	WASHER,SPINDLE	PC
WC90-0001	6	COPPER BRAID, TINNED, .25IN FLAT	FT

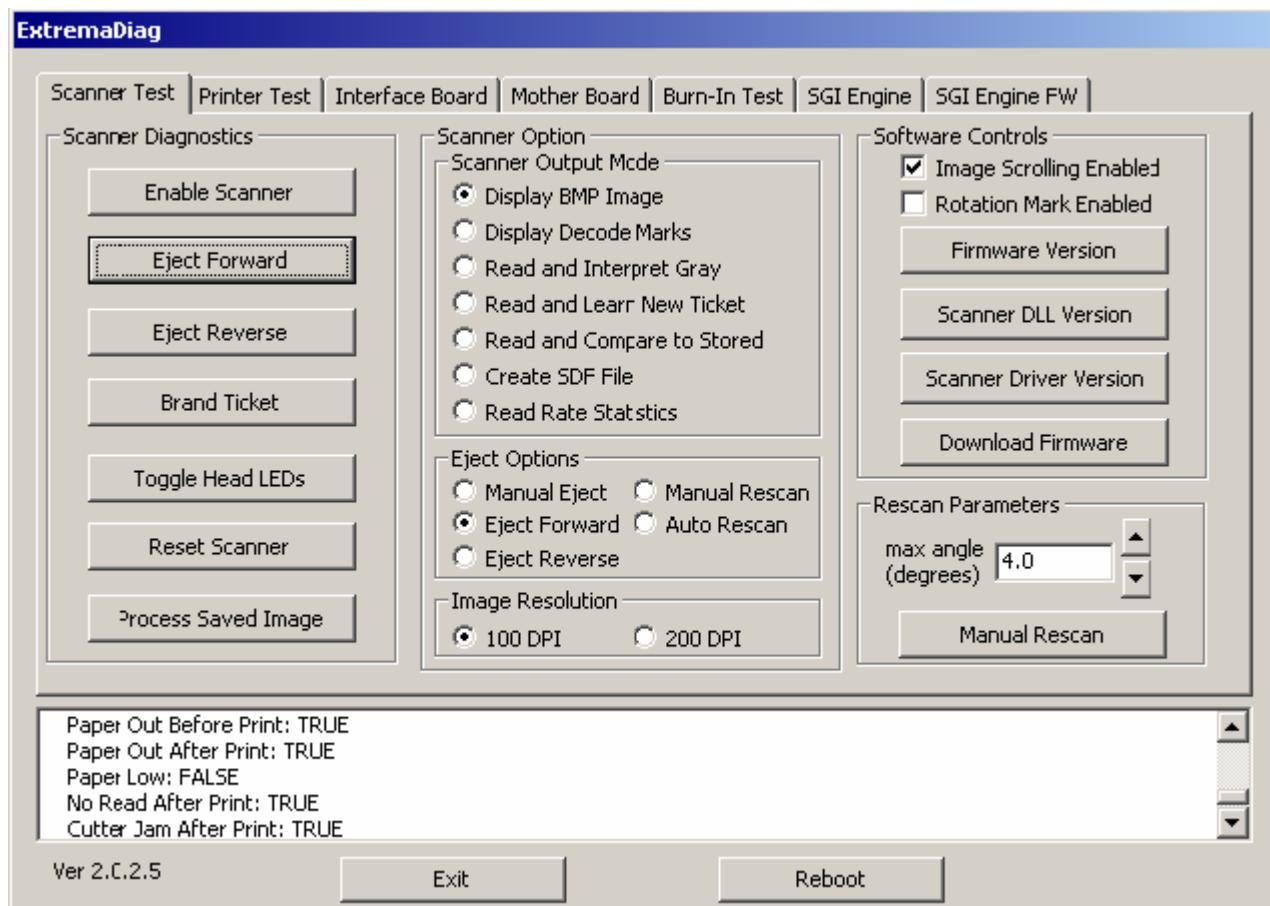


# APPENDIX B

## TEST PROCEDURES

### 4 Inch Scanner

#### Scanning Forward Drive



## **1. Notification**

N/A

## **2. Objective**

Test that the scanner is scanning correctly and the final drive is forward.

## **3. Requirement**

1. StanXP Diags.
2. Diags Printer Ticket with logo.

## **4. Settings**

**EJECT OPTIONS:** Forward.

**SCANNER OPTIONS:** Display BMP Image.

**IMAGE RESOLUTION:** 100 DPI.

**IMAGE SCROOLING:** Enabled.

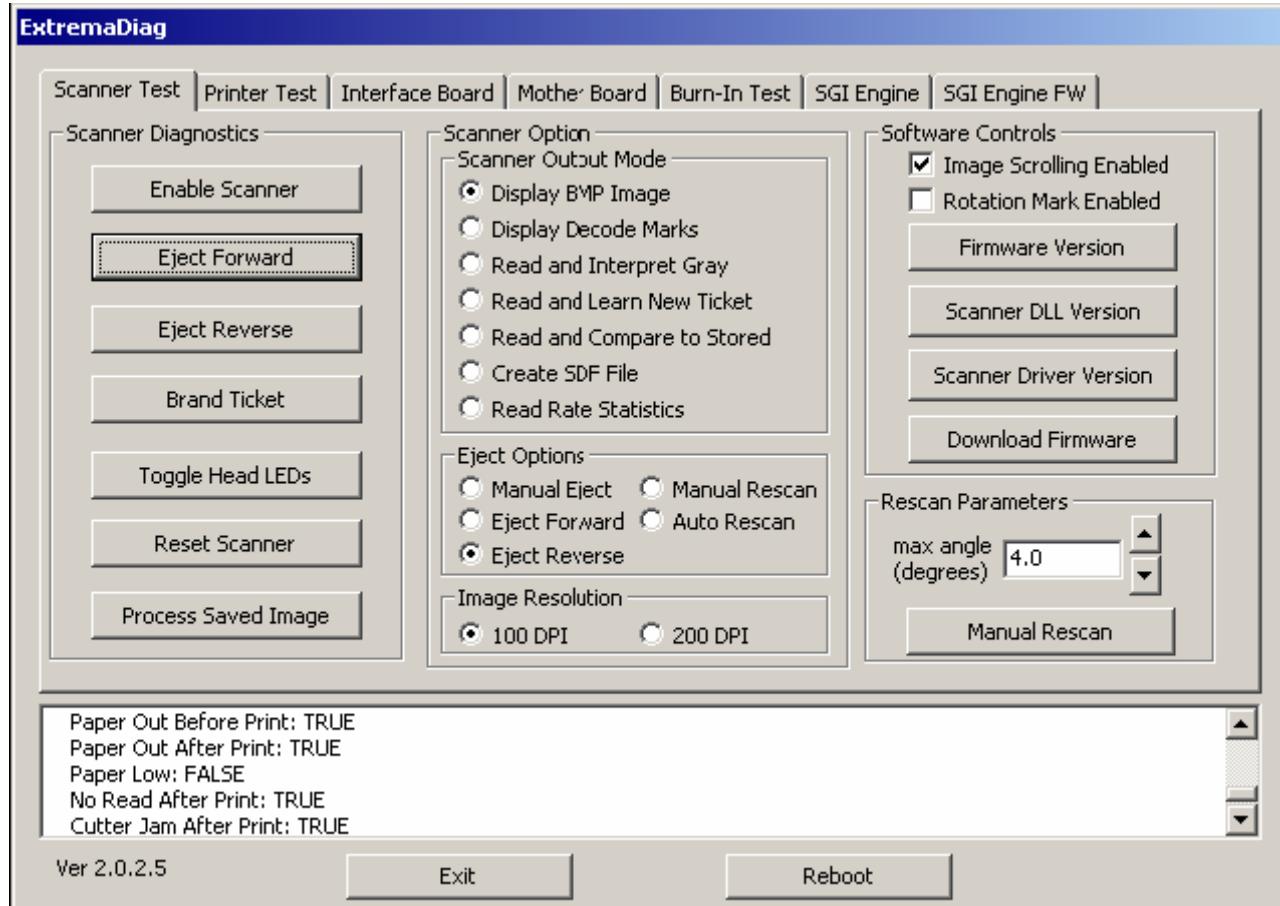
## **5. Operation**

Scan the ticket.

## **6. Verification**

The scanner's final drive is forward and the display shows a well defined image of the ticket.

## Scanner Reverse Drive



## **1. Notification**

N/A

## **2. Objective**

Test that the scanner is scanning correctly and the final drive is reverse.

## **3. Requirement**

1. StanXP Diags.
2. Diags Printer Ticket with logo.

## **4. Settings**

**EJECT OPTIONS:** Reverse.

**SCANNER OPTIONS:** Display BMP Image.

**IMAGE RESOLUTION:** 100 DPI.

**IMAGE SCROOLING:** Enabled.

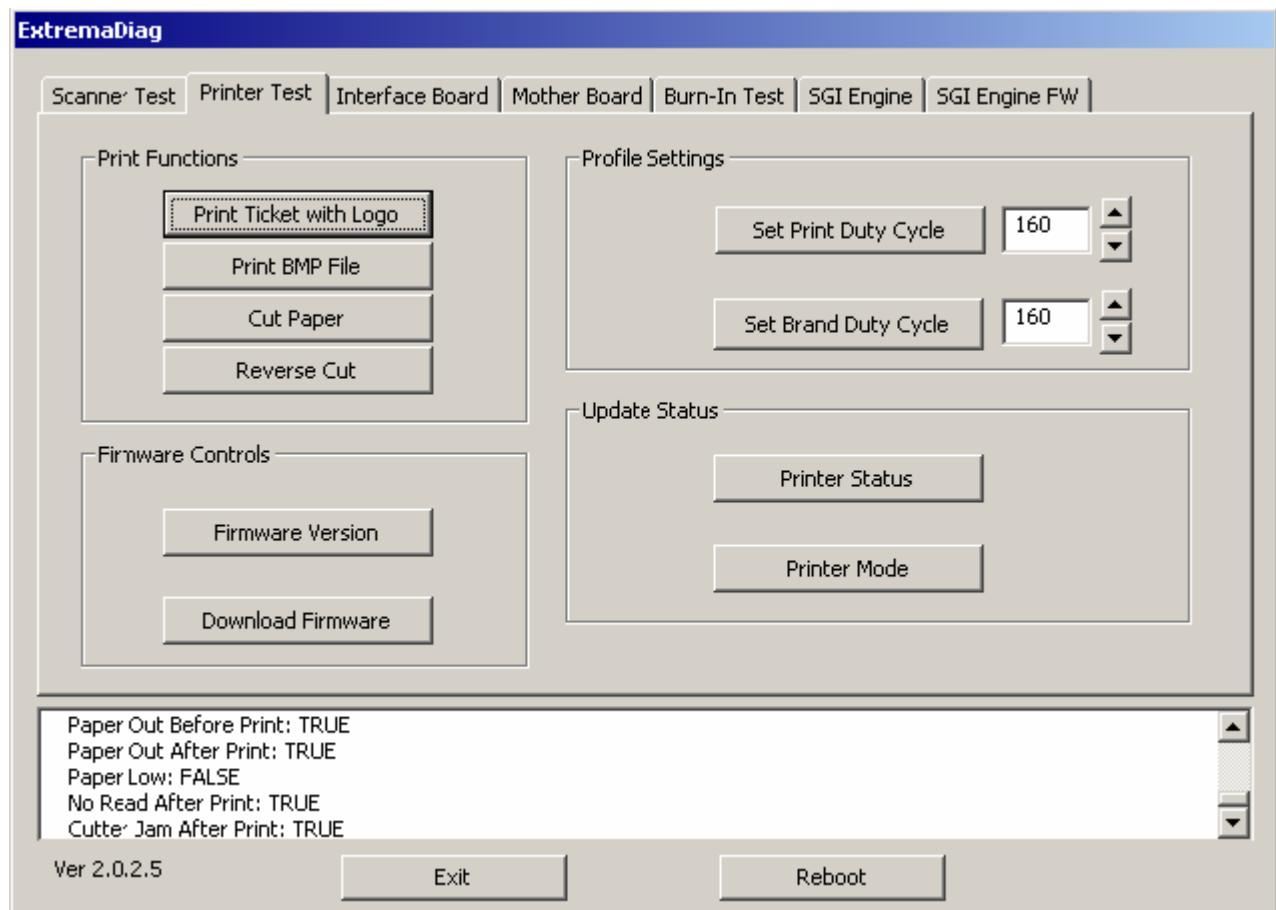
## **5. Operation**

Scan the ticket.

## **6. Verification**

The scanner's final drive is reverse and the display shows a well defined image of the ticket.

## Printer



**1. Notification**

N/A

**2. Objective**

Test that the printer is operating correctly.

**3. Requirement**

StanXP Diags.

**4. Settings**

N/A

**5. Procedure**

Print ticket with logo.

**6. Verification**

The printer prints a well defined ticket with logo.

## Paper Low

### 1. Notification

- a) STAN application can be started from the Desktop.

### 2. Objective

Test that the Paper Low is operating correctly.

### 3. Requirement

STAN Application.

### 4. Settings

Select Printer in the STAN Application.

### 5. Procedure

- a) Select Printer.
- b) Print Test Ticket.

### 6. Verification

Counter Increments.

## Display

### 1. Notification

- a) STAN application is can be started from the **Desktop**.
- b) There is no utility for the display, however if the display is split or distorted this can be caused by incorrect BIOS setting.

### 2. Objective

Test that the Display is Working.

### 3. Requirement

STAN Application.

### 4. Settings

N/A

### 5. Procedure

Load the Application.

### 6. Verification

The Application is displayed.

## Secondary Monitor

### 1. Notification

The XP Display is sourced under **Control Panel**.

### 2. Objective

Test that the Secondary Monitor is working.

### 3. Requirement

XP Display.

### 4. Settings

Display: Settings: 2.

### 5. Procedure

Press Identify.

### 6. Verification

A number is displayed on the Monitor.

## Magnetic Card Reader

### 1. Notification

The HCR 360 Magnetic Card Reader Utility is used for this test.

### 2. Objective

Test that the Magnetic Card Reader is working.

### 3. Requirement

HCR 360 Magnetic Card Reader Utility.

### 4. Settings

Ensure that the Magnetic Card Reader is configured properly.

### 5. Procedure

- a) Start the utility.
- b) Show Status.
- c) Scan a Card.

### 6. Verification

The Card Number is displayed as: **qxxxxxxxxxp**.

## Ports

### Ethernet

#### 1. Notification

Use the command prompt.

#### 2. Objective

Test that the Ethernet port is working.

#### 3. Requirement

Ping

#### 4. Settings

Connect the port to a LAN.

#### 5. Procedure

- a) Enter Command Prompt.
- b) Ping 127.0.0.1 (Ethernet Port).
- c) Ping an IP address.

#### 6. Verification

Reply from receiver.

## USB

### 1. Notification

Use a USB mouse or Keyboard.

### 2. Objective

Test that the USB port is working.

### 3. Requirement

USB mouse or keyboard.

### 4. Settings

N/A

### 5. Procedure

Move mouse or enter data through the keyboard.

### 6. Verification

The display responds.





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