

EPIC 950[®]

THERMAL TICKET PRINTER

Tech Support Reference Guide



TRANSACT[®]

www.TRANSACT-TECH.com

Contact Information / Serial Plate Info

- **TransAct® Technologies Incorporated** is the manufacturer of Ithaca brand POS, Banking, and Food Safety receipt printers, and Epic brand Gaming printers. 877.748.4222 - www.transact-tech.com
- When calling the toll free number above, enter Option 2 for Parts and RMAs or enter Option 3 for Technical Support
- E-mail Technical Support at:
TechSupport@transact-tech.com
- Online RMA form:
www.transact-tech.com/tsg/rma.html
- Additional product support information can be found on our website: <http://www.transact-tech.com/drivers/epic-950>
- TransAct also maintains an FTP site for downloading documentation, utilities and firmware files:
<ftp://ftp.transact.com>
USER ID: **gaming**
PASSWORD: **CAs1no123**
or at <ftp://gaming:CA1no123@ftp.transact-tech.com>

Serial Plate Information

Date Code Identification:

- The first letter denotes the month built, as follows:
A= January, B= February, C= March, D= April,
E= May, F= June, G= July, H= August,
I= September, J= October, K= November,
L= December
- The two numbers denote the last two digits of the year built, as follows:
04= 2004
05= 2005...



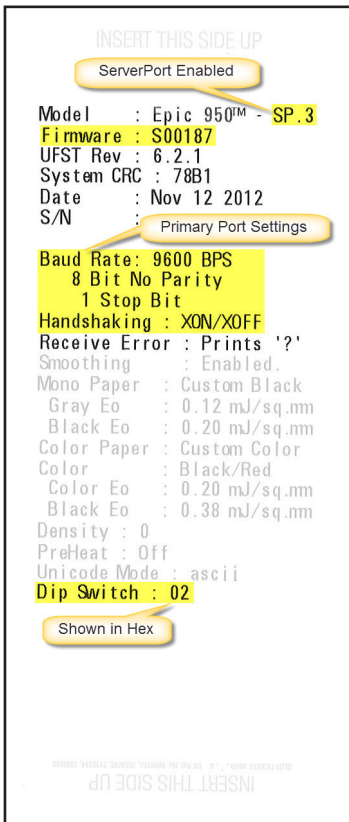
Note: Standard Warranty: 2 years from the build date

Printer Configuration Ticket

Press and Hold the printer's FEED button and release when you hear the ticket begin to print. The ticket will show the firmware version currently loaded in the printer and other useful information.

Troubleshooting tips:

- Verify the port settings if the printer is unable to communicate.
- Verify the printer's boot loader is v1.13 or greater if the ticket fails to print out.
- If all else fails you can load the printer with factory firmware <STST24.cbt> to restore additional default settings.



Configuration
Ticket

Printer Status and Bezel Light LEDs

Printer Status LEDs

The printer has been outfitted with an LED panel system that provides the condition of the printer by using solid or blinking status LEDs to communicate status information. The following table lists the different LED states for specific conditions.



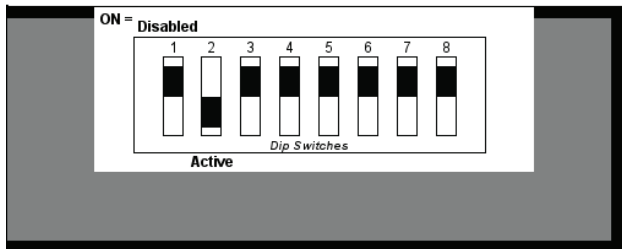
Condition	Ready LED	Paper LED	Open LED	Fault LED
Unit Ready	ON	OFF	OFF	OFF
Cover Open	ON	OFF	ON	OFF
Chassis Open	ON	OFF	BLINK	OFF
Ticket Out	ON	ON	OFF	OFF
Ticket Low	ON	BLINK	OFF	OFF
Head Temp Error	BLINK	OFF	OFF	BLINK
Paper Jam	ON	OFF	OFF	BLINK
Ram Error	2-BLINK	OFF	OFF	ON
EEprom Error	5-BLINK	OFF	OFF	ON
Download Mode	BLINK	OFF	OFF	ON
Configuration Mode	BLINK	OFF	OFF	OFF

Bezel Status Lamp

The printer's bezel also displays certain printer status information. See the table below:

Steady	Blinking Rapidly	Blinking Medium	Blinking Slowly
Online and Ready	Ticket is being printed. Ticket Taken sensor is blocked	Ticket Low Chassis open Cover open	Ticket not loaded (TOF) Ticket jam error

Dip Switch Settings



Outside Edge of Printer

Switch 1 is the furthest to the rear of the printer. The Active position is toward the outside edge of the printer. Power cycle printer to read dip switch changes.

- | | |
|------|--|
| SW-1 | Reserved and must be in the Disabled position. If activated, the printer will be held in reset. |
| SW-2 | Configures Ticket Low. The Disabled position prevents ticket low from being detected. |
| SW-3 | Reserved |
| SW-4 | Reserved |
| SW-5 | Reserved |
| SW-6 | Reserved |
| SW-7 | Activates the Smart Suite features. Must be active to use the status features of the Bench Test utility. Must be active on Bally Alpha Class 3 platforms with 3.17OS or greater or if you receive constant "Printer COMM Error". |
| SW-8 | Activates 2-color operation (color ticket media required). |

Game Interface Options

Serial (RS-232)

- Communication board **#95-04998L** (14-pin connector)



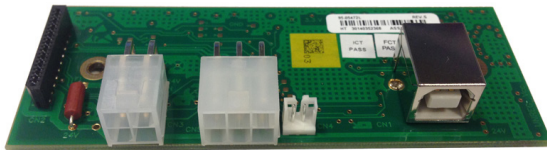
Netplex

- Communication board **#95-05001L** (10-pin connector)
- Powered through 8-pin pigtail connector



USB

- Communication board **#95-05472L** (4-pin USB connector and 6-pin Netplex connection)
- Powered through a 4-pin Molex connector



Note: The Inner Chassis is compatible with all firmware versions

Printer Firmware Versions

Firmware Naming Convention:

Each firmware file is named with a prefix and number that signify specific information about the firmware in the file. The Family Mask is indicative of backwards compatible firmware.

Firmware Prefix - Interface Type or Usage			
F	XXX	xx	Factory Test- Must be re-flashed!
S	XXX	xx	TransAct Template Language (Serial PCB)
N	XXX	xx	WMS - IGT's Netplex Protocol (Serial PCB)
V	XXX	xx	IGT - Netplex Protocol (Netplex PCB)
H	XXX	xx	GSA - GDS Printer Protocol (USB PCB)
U	XXX	xx	TransAct Template Language (USB PCB)
IUN	XXX	xxxx	IGT - Ithaca Universal Netplex (USB PCB)
IUU	XXX	xxxx	IGT - Ithaca Universal USB (USB PCB)

Diagram annotations:
- An arrow points from the text "Firmware Prefix - Interface Type or Usage" to the first column of the table.
- An arrow points from the text "Firmware Revision" to the third column of the table.
- An arrow points from the text "Firmware Family Mask" to the second column of the table.

Obtaining Printer Firmware:

- Firmware files <*.cbt> are available for download from the TransAct Gaming FTP site (see Page 2). After logging in, browse to the *Epic 950/Firmware* folder, select the interface type and firmware version to download.

TransAct Firmware Disclaimer:

- The firmware within all gaming ticket printers are subject to regulatory approval. It is the casino's responsibility to ensure only approved firmware for the specific game platform is installed to avoid potential fines imposed by the regulatory body. Please contact the game manufacture and/or regulatory agency to confirm the approval status prior to using any new printer firmware version(s) in your games.

Racking/Un-racking the Inner Chassis

To remove the Inner Chassis:

- Pull on the Ticket Cover to release the rear detents, pulling the Inner Chassis towards you until its latches catch the forward detent slots.
- Push the Inner Chassis back in slightly, pull on the Release Lever and pull forward on the Inner Chassis to un-dock it from the Outer Chassis.

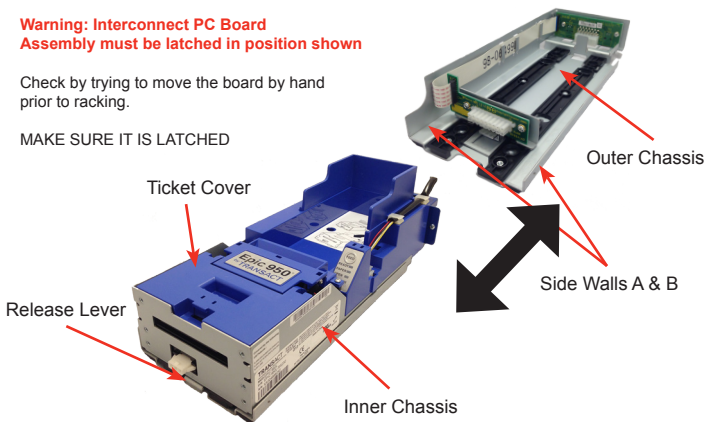
To return the Inner Chassis: (see warning before racking)

- Align the base of the Inner Chassis with the outer walls of the Outer Chassis, seating it within side walls A and B as shown. Make certain it's straight so the Inner Chassis doesn't damage the flex cable.
- While pulling outwards on the Release Lever, slide the Inner Chassis towards the rear of the Outer Chassis. Push the Inner Chassis all the way to the back until it stops. When fully seated, the front metal plate of the Inner Chassis and the front left edge of the Outer Chassis are flush.

Warning: Interconnect PC Board Assembly must be latched in position shown

Check by trying to move the board by hand prior to racking.

MAKE SURE IT IS LATCHED



Preventive Maintenance

Cleaning Instructions:

1. Remove Inner Chassis as shown on Page 8.
2. Open top cover all the way to allow airflow between print-head and platen roller.
3. Remove any loose particles using compressed air.
4. Clean ticket burst area (under top cover) with a lint free cloth.
5. Supply power to the printer either by reinstalling it back into a game or using the Download Kit's power supply.
6. Open cleaning card pouch and remove cleaning card.
7. Insert cleaning card into feed path while applying some tension thereby cleaning the entire surface of the platen roller.
8. Open the top cover and remove the cleaning card.
9. Repeat process if necessary.
10. Properly dispose of used cleaning card.

Waffletechnology cleaning cards with cutout notches:

- Insert cleaning card into feed path with the notches towards the leading edge and use the FEED button to feed it through 2x.

Warnings:

- IPA solvents can damage rubber rollers with frequent use. TransAct recommends a maximum usage of 2x annually.
- The thermal print-head's life can be reduced with excessive friction. When cleaning the component directly, TransAct recommends using IPA solvent on non abrasive lint free cloth.

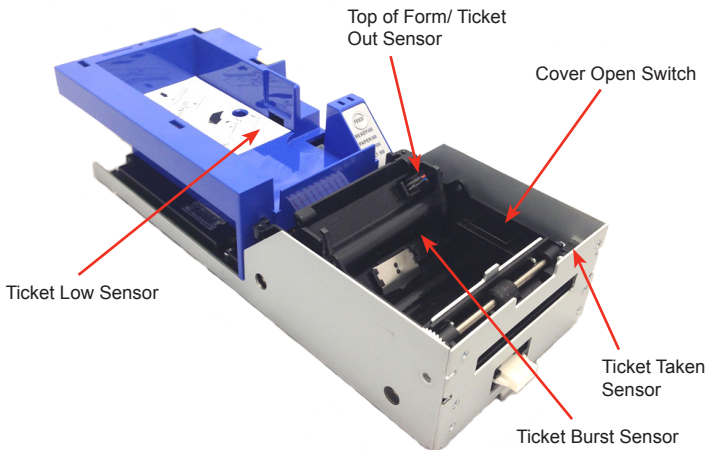
Purchasing cleaning cards:

Cleaning cards are available through TransAct.

Description: 2.5"x6" Cleaning Cards (QTY15)

TransAct Part Number: [200-00155](#)

Sensors and Switches



Chassis Open Sensor

- Detects when the printer is racked out
- Metal tab on chassis blocks optical sensor
- Test - OPEN lamp flashes

Cover Open Switch

- Detects when the top cover is open
- Issue - magnet or mount position
- Test - OPEN lamp on when cover open

Top of Form Sensor

- Used for loading and aligning ticket media
- Turns on the feed motor when loading
- Detects black mark on ticket media
- Test - PAPER lamp turns off when aligned

Sensors and Switches

Ticket Low Sensor

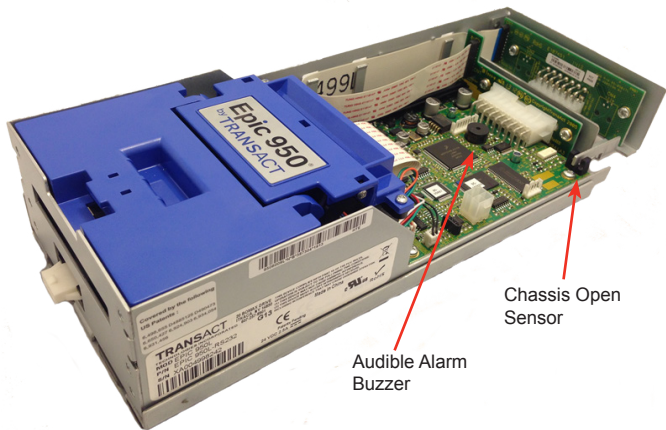
- Activates when 6 to 8 ticket are remaining
- Can be disabled using Dip Switch 2
- Test - PAPER lamp flashes on ticket low

Ticket Burst Sensor

- Used to detect paper movement
- Test - with ticket loaded open/close cover
- ticket should realign, if blocked it backs out
- Clean - remove from bottom of print mech

Ticket Taken Sensor

- Detects when patron removes the ticket
- Test - bezel flashes rapidly when blocked
- Issue - cabinet airflow, printer +5 years old
- Clean - blow out and/or ultrasonic bath
- NEW sealed optical sensor (95-05152L)



(Ticket Bucket not shown for clarity)

Flex Cable Replacement

Installation:

When installing the cable into the Outer Chassis, make the rear connection first. Then create a loop in the cable so it can be easily slipped over the clip (A) closest to the connector, then repeat for remaining clips. Release the sliding connector board's latches by lifting up on the two levers and push the board towards the rear to allow enough slack to mate the front connection. Now mate the front connection to the sliding board and pull the sliding board forward until it is firmly latched.

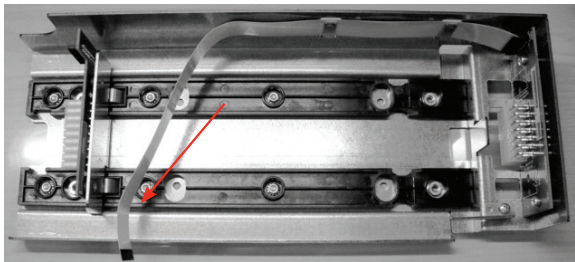
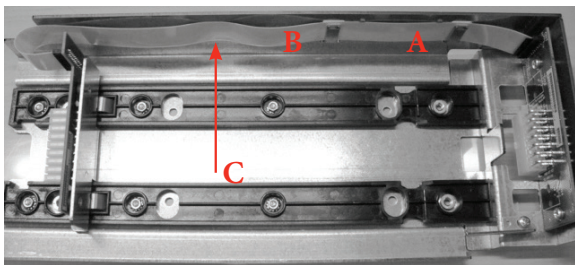
Warning: If reinstalling a used cable, care must be taken to insure the cable's bow protrudes in the direction as shown in Figure 2 and when installed, it should look like (C).

Description:

Flex Cable

TransAct Part Number:

98-06499L

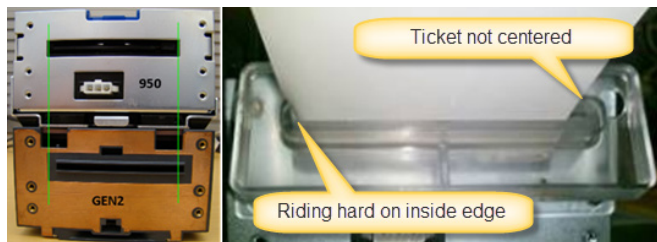


Troubleshooting

- Test sensors using printer panel and bezel lamps
- Most issues are resolved by blowing out dust
- Strange behavior verify printer's firmware
- Comm error after printer swap check Dip Switch 7
- NEW levers resolve half print issue (95-05881)



Frequent ticket jams check bezel alignment

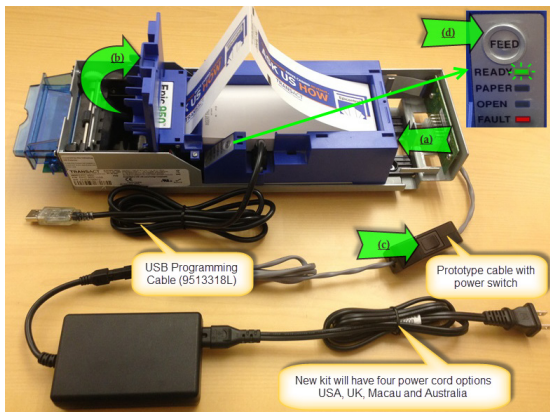


Download and Test Hardware

NEW USB Programming Cable (95-13318L)

NEW Epic 950 Download Kit coming soon (100-06693L)

The printer can be powered by the slot machine. If it is powered by the slot machine, all that's needed is the USB Programming Cable.



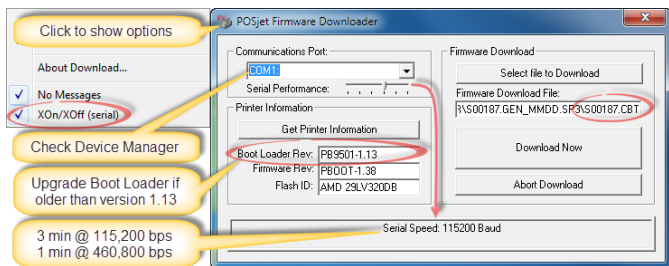
Download Mode:

The printer must be put into a special mode to allow firmware downloading. Preference is to preload a ticket beforehand to allow the configuration ticket to printout as an indication that the flash process has finished.

1. Rack-out the printer (a) verify OPEN lamp flashing
2. Open the Top Cover (b) verify OPEN lamp On solid
3. Power off the printer (c) no lamps should be On
4. Hold the FEED button (d) while applying power (c)
5. Wait for FAULT lamp On and READY lamp flashing
6. Download Load Mode, release the FEED button (d)
7. Allow printing, Rack-in (a) and close Top Cover (b)

Flashing Printer Firmware

The latest version of the downloader utility can be found on our website and FTP sites.



Utility One-Time Setup:

1. Click the upper left icon to show the option menu
2. Checkmark the Xon/Xoff (Serial) option
3. Select or Enter the PC assigned COMM Port number
4. Adjust the Serial Performance slider to the right
 - a. Recommend setting is 115200 Baud
 - b. USB Program Cable supports 460800 Baud

Download Firmware:

1. Click the **Get Printer Information** button
Recheck all steps if textboxes don't populate
2. Verify that Boot Loader Rev: is 1.13 or greater
Available on our FTP site and same flash process
3. Click **Select file to Download** button
Choose an approved firmware version to flash
4. Click the **Download Now** button to begin flash
5. Wait for Flash Update In Progress to finish
6. Verify firmware version on configuration ticket

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For more info call: [877.748.4222](tel:877.748.4222)

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