

PERSONAL NOTES AND COMMENT AREA

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JCM AccLoad™ Software
Program Installation and Operation

This document contains information for installing, configuring and operating the JCM AccLoad™ Software Program. The JCM AccLoad™ Software is intended to aid the UBA® and WBA® Unit user in collecting and maintaining a history file of Banknote acceptance and fault details concerning type, denomination, insertion direction, rejects, hard failure errors and Barcode Ticket acceptance errors.

The JCM AccLoad™ Application requires the following hardware support items:

- 1- Required AccLoad™ Software components:
 - 1 - AccLoad™ Software (“UBA, WBA AccLoad™”, or the “JCM Tool Suite”)
 - 1 - AccLoad™ Software Installation Guide (JAC Part No.960-100918R).
- Additional Equipment (not supplied)
 - 1 - PS75-002 Power Supply (JAC Part No: 701-000148R for UBA®) or
 - 1 - PS15-006 Power Supply (JAC Part No: 550-100042R for WBA® with Adaptor Cable [JAC Part No: 400-100109R] & LED Assy. [JAC Part No: 550-1000013]) or
 - 1 - UAC Device Kit (JAC Part No: 701-100103R for UBA® or WBA®).
 - 1 - Personal Computer (PC) with Internet Connection; Windows® OS: XP, Vista or 7.

Above Software is available at:
<http://www.jcmglobal.com/en/support/downloads/tools.aspx>

ACCLOAD INSTALLATION HARDWARE REQUIREMENTS

Figure 1 illustrates the JCM AccLoad™ Software System’s required additional equipment components and installation requirements.

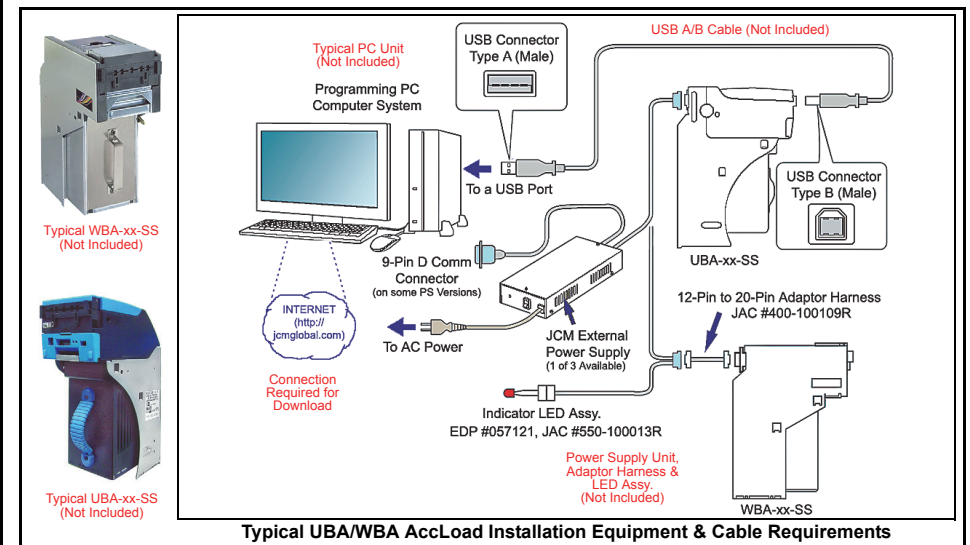


Figure 1 Typical AccLoad Hardware Component Interconnections

INTRODUCTION

Accload™ is a program that runs in the background of every WBA® and UBA® Unit. AccLoad™ maintains an activity history file of the WBA® or UBA® Units operation.

Information collected includes Banknote acceptance details by Banknote Type, Banknote Denomination, and its insertion direction.

Detailed information is recorded for TITO Ticket Acceptance as well.

Fault history details for the WBA® and UBA® Units are summarized as Reject Errors (Banknote return errors) and Abnormal Errors (hard failures).

There are two AccLoad™ Programs available and are Windows® XP, Vista® and Windows® 7 compatible. These AccLoad™ Applications are both available for download at the JCM Website (<http://www.jcmglobal.com/en/support/downloads/tools.aspx>).

The "**UBA, WBA Accload**" Application accesses information on both the UBA® and the WBA® Unit. This program requires the use of an external Power Supply containing a Serial Port for connecting a PC to the selected Acceptor. See the parts list on Page 22 for ordering a suitable Power Supply for your specific Unit.

The "**JCM Tool Suite**" Program allows AccLoad™ information to be accessed on a UBA® using only the front USB Port of the UBA® Unit. The "**JCM Tool Suite**" however, only works with UBA® Units containing current released versions of the UBA® Software.

SETTING UP THE WBA FOR ACCLOAD DOWNLOAD MODE

To Set-Up a WBA® for an AccLoad Download proceed as follows:

1. On the WBA-12, use a small Jewelers Screwdriver to turn DIP Switch #8 ON (See Figure 13 for Switch Number Locations).



NOTE: On the WBA-12 Unit, DIP Switch No. 8 is on the left side, and DIP Switch No. 1 is on the right side. The UP position of the DIP Switch is OFF and the DOWN position is ON.

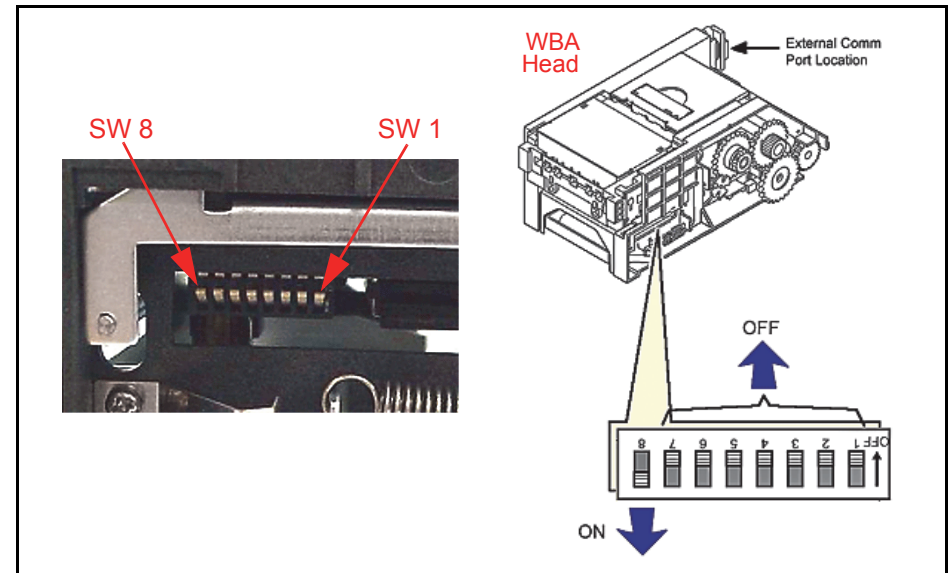





Figure 13 WBA-12 DIP Switch Position Location

2. Apply power to the WBA® Unit. The attached Test Lead LED will begin to Blink at a slow rate, then
3. Turn DIP Switch #8 OFF to begin the AccLoad Program access to the WBA® Unit's memory.

PARTS LIST

ACCEPTABLE POWER SUPPLIES

Part No.	Description
701-000148R	PS75-002 (UBA)  <i>NOTE: Can also be used with WBA Units. However, the LED Assembly would need to be connected to Bezel Light Connector Port on the WBA Processor Board.</i>
550-100042R	PS15-006 (WBA)  <i>NOTE: The below Adaptor Cable and LED Assembly are also required when using the PS15-006 PSU with a WBA Unit.</i>
400-100109R	Adapter Cable WBA 10/11 to WBA 12/13
550-1000013	LED Assy.
701-100103R	WBA/UBA UAC Kit  <i>NOTE: The UAC Device will power both the WBA and UBA Units. The required Test Leads are built into, and are part of this unit.</i>

If additional information for downloading or operating The AccLoad™ Software Application loaded in a WBA® or UBA® Unit, contact JCM Customer Support for further instruction.

INSTALLING ACCLOAD SOFTWARE


Perform the following steps to install AccLoad™ Software onto your PC:

1. Obtain the required Accload™ Software Application from the JCM Global Website (<http://www.jcmglobal.com/en/support/downloads/tools.aspx>).
2. Save the Application into a File Folder on the PC.

UBA, WBA ACCLOAD SOFTWARE INSTALLATION

To install the "UBA, WBA Accload" Application proceed as follows:

1. Open the directory where the program was saved on the PC.
2. Extract the compressed program contained within the File Folder.
3. Mouse-click on the extracted Application "NewAccLoad(v119)" to open it.

 *NOTE: To make the access to the program easier, create a shortcut and move the shortcut ICON to the Desktop.*

JCM TOOL SUITE SOFTWARE INSTALLATION

To install the "JCM Tool Suite" Application proceed as follows:

1. Open the directory where the "JCM Tool Suite" Application was stored on the PC.
2. Extract the files contained within the compressed File Folder.
3. Double Mouse-click on the "Setup" Application.
4. Follow the prompts as presented.

When completed the "JCM Tool Suite Standard Edition" ICON will be placed on the Desktop. 



INSTALLING RELATED DEVICE DRIVERS

The UBA® USB Device Drivers need to be installed when using the UBA® JCM Tool Suite Program.

 *NOTE: Install the "JCM Tool Suite" Program BEFORE loading its necessary Drivers.*

To install the necessary Drivers, follow these steps:

1. Connect power to the UBA® Unit.
2. Attach a Male 'A' to Male 'B' Type USB Cable between the PC and the UBA® Unit.
3. When communication is established, a "USB Device not recognized or not found" prompt will appear.
4. Follow the prompt default instructions to allow the installation program to automatically find and install the required Device Drivers. When complete, the required "JCM-UBA" Device Driver will have been installed.

ACCESSING ACCLOAD - UBA OR WBA

BANKNOTE ACCEPTOR PREPARATION

To prepare the Acceptor to receive the ACCLoad™ Program proceed as follows:

1. On either the selected UBA® or the WBA®, place the Acceptor in its Diagnostic Mode by turning DIP Switch #8 ON, and apply Power to the Unit.
2. When a WBA® is in Diagnostic Mode, the Test LED on the Power Supply Cable will slowly blink at a steady rate.
3. Diagnostic Mode on a UBA® is indicated by both the Red and Green LEDs illuminating equally.
4. To allow Accload™ Data to be read, turn DIP Switch # 8 OFF. This allows the PC to communicate with the UBA® or the WBA® Acceptor.
5. Open the Accload™ Program and Figure 2 will appear.

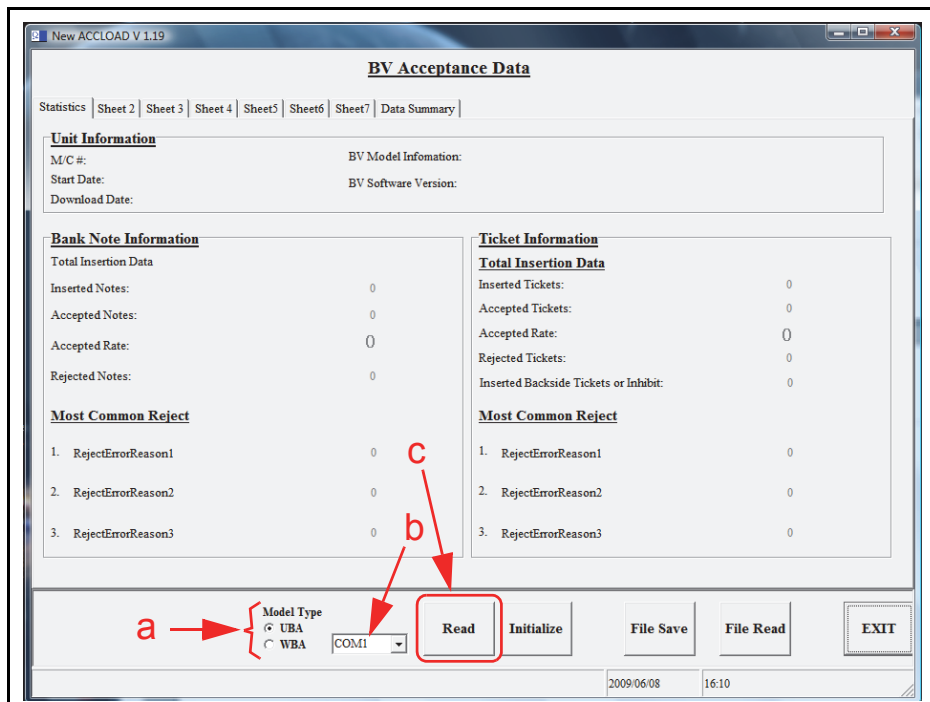


Figure 2 Initial AccLoad Program Screen

With the Initial AccLoad™ Program Screen open, proceed as follows:

1. Select the Acceptor Model Type (See Figure 2 a).
2. Select the COM Port from the Pull-Down Menu where the Acceptor is connected (See Figure 2 b).
3. Mouse-click on the "**Read**" Screen Button (See Figure 2 c). The Accload™ Data will be retrieved from the Acceptor and displayed in each related area on the Figure 2 PC Accload™ Initial Program Page above the Screen Button.

TROUBLESHOOTING

RX Timeout: – Check that the communication port setting in Accload™ matches the COM port where the UBA® or WBA® is connected.

Ensure that the UBA® or WBA® was placed in Diagnostic Mode with DIP Switch #8 ON, and then DIP Switch #8 is turned OFF.

When reading WBA® Data, ensure that the WBA® Screen Radio Button is selected, and if reading UBA® data ensure that the UBA® Screen Radio Button is selected.

Checksum Error: – The Checksum Error indicates some of the Accload™ Data information Fields have exceeded their maximum value and have rolled back to Zero (0). Some of the calculation therefore, may not be correct. If AccLoad™ is initialized during each Preventative Maintenance and Software Update, this error can be minimized.

WBA AND UBA BARCODE TICKET/COUPON REJECT ERROR CODES


Table 6 lists the UBA® and WBA® Barcode Ticket/Coupon Reject Error Codes mentioned on Sheet 4 of the the AccLoad™ Application Program.

Table 6 UBA/WBA Barcode Ticket/Coupon Reject Error Codes

Error No.	Error Description	Possible Cause
1	Barcode Function not set	Acceptance of ticket is disabled
2	Format Unknown	Incorrect Barcode format
3	Character Length	Improper character length
4	Start Character	Could not find the start character
5	Stop Character	Could not find the stop character
6	Barcode Type error	Barcode format error
7	Reserved	N/A
8	Ticket Transparency	Double tickets detected
9	By DIP Switch	Check Switch Position Settings
10	Photo Level	Barcode too light
11	Upside-down Ticket	Index mark on the wrong side
12	Reserved	N/A
13	Ticket Length	Ticket's length is too long or too short
14	Reserved	N/A
15	Reserved	N/A

ACCESSING ACCLOAD – JCM TOOL SUITE

To access the AccLoad™ JCM Tool Suite Program, proceed as follows:

1. Apply power to the UBA® Unit.
2. Open the JCM Tool Suite Program by Mouse-clicking on the “JCM Tool Suite Standard Edition” ICON located in the Folder previously created the PC. 
3. Connect a Male ‘A’ to Male ‘B’ USB Communications Cable between the UBA® and the PC. When communications is established, the JCM Tool Suite Device Information Fields will populate.
4. Use the Down Arrow ▼ to the right of the Service Mode Pull-Down Menu on the Screen (See Figure 3 a), and select "Statistics" from the Menu (See Figure 3 b).

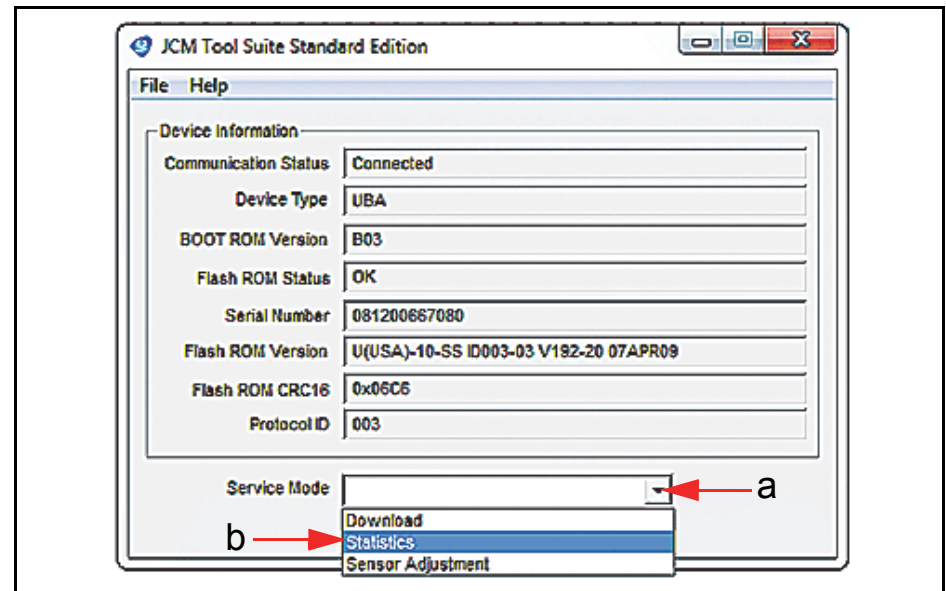



Figure 3 JCM Tool Suite Program Screen

5. When the Accload™ Program opens, Mouse-click on the “Read” Screen Button (Review Figure 2c on page 4) to retrieve the current Accload™ Data.

ACCLOAD FUNCTION SCREEN BUTTONS

The various AccLoad™ Screen Button Functions are shown in Figure 4 and are identified as follows:

1. **Read** – The Read Screen Button ① is used to read and/or retrieve the Accload™ information from within an Acceptor.
2. **Initialize** – The “Initialize” Screen Button ② is used to clear the Accload™ information from the Acceptor. All of the Screen Fields are initialized to a Zero (0) value state. When the “Initialize” Screen Button is selected, the Input M/C # Screen appears. An identifying Alpha-Numeric Tag can then be input. The Tag saves to the UBA® or WBA® Unit Memory, and will appear on the display when the Accload™ data is read. Selecting “Initialize” also records the PC Date and Time and stores it to the WBA® or UBA® Unit.
3. **File Save** – The “File Save” Screen Button ③ allows the Accload™ data to saved to a file on the PC. When selected the “Save As” Screen appears to allow a user to input a selected file name and directory location.
4. **File Read** – The “File Read” Screen Button ④ is selected when an existing Accload™ file on the PC needs to be viewed.
5. **EXIT** – The “Exit” Screen Button ⑤ is used to close and exit the program.

 **NOTE:** The “Model Type” and Com Port Selection process was previously explained with Figure 2 on page 4 of this Guide.

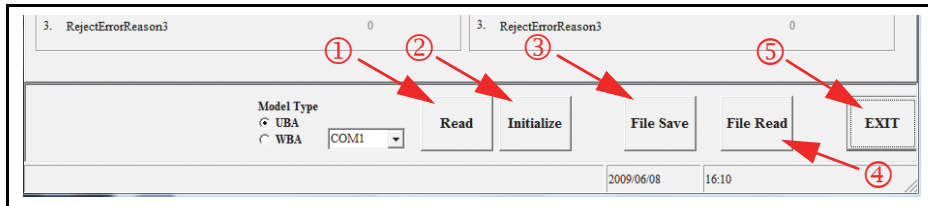


Figure 4 AccLoad Program Screen Buttons (Bottom Portion)

WBA ERROR CODES – RETURN ERRORS (CONTINUED)

Table 5 lists the WBA® Return Error Codes mentioned on Sheet 4 of the AccLoad™ Application Program.

Table 5 WBA Return Error Codes

Error No.	Error Description	Possible Cause
1	Crooked Insertion	Check the Entrance Sensors
2	Magnetic Pattern Error Center	Center Magnetic Head
3	Detected A Banknote In the Pathway at Idle	HPL, HPR, HPC, Transport Entrance Sensor
4	Data Amplitude Error	All Infra-red sensors, Power Supply
5	Timing Error, the Banknote Did NOT Reach the Sensors within the Specified Period of Time after it was Initially Taken Inside	Clean Belts, Sensors
6	Unused	N/A
7	Error in Photo Sensor	Clean and Calibrate
8	Level Error, the Banknote was Unusually Dirty or Two Overlapping Notes were Detected	Check Entrance Sensors, Banknote condition
9	Return Commanded by DIP Switch Setting	Check Dip Switch Settings
10	Return Commanded by the Host Machine	Check Host Settings
11	Solenoid Lever Trouble	Check Solenoid and Solenoid Sensor
12	The Sensors Detected Movement in the Wrong Direction During Transfer to the Cash Box	Check HPL, HPR, HPC, Transport Entrance Sensor
13	The Banknote is of a Length Other Than Specified	Check HPL & HPR
14	Color Pattern Error	Check Lower Sensor PCB, HPL, HPR, HPC
15	Magnetic Pattern Error Left or Right Side	Check Left & Right Magnetic Heads

WBA ERROR CODES – ABNORMAL ERRORS

Table 4 lists the WBA® Abnormal Error Codes mentioned on Sheet 4 of the AccLoad™ Application Program.

Table 4 WBA Abnormal Error Codes

Error No.	Error Description	Possible Cause
1	Cash Box Full	Replace Cash Box, Stacker Encoder
2	Stacker Jam or Pusher Unit Trouble Indicated	Jam at Cash Box Stacker
3	Transport Cover Open or Solenoid Lever Trouble Indicated	Check Transport Sensors
4	Blocked Banknote Path Sensor	Check Head and Transport Sensors
5	The Acceptor Head is Detached, not Calibrated or an Incorrect Type	Clean and Calibrate
6	Transport Motor Trouble or the Signal is NOT Being Sent from the Encoder	Transport Motor or Encoder
7	N/A	Reserved
8	Solenoid Lever Trouble Indicated	Check Transport Solenoid, Solenoid Sensor
9	N/A	Reserved
10	Cash Box Not Fully Seated	Re-seat the Cash Box

DATA DESCRIPTIONS

STATISTICS PAGE TAB

Unit Information

The following descriptions relate to the “Statistics” Page Screen Fields on the Initial AccLoad™ Screen shown in Figure 5 below and are as follows:

- M/C #:** – This is a User Input Field ① when the Acceptor data is initialized. M/C # = Machine or Control Number.
- Start Date:** – The “Start Date” ② is the date taken from the PC when the Acceptor is initialized.
- Download Date:** – The “Download Date” ③ is the date obtained from the PC when the Accload™ information is "READ" from the Acceptor.
- BV Model Information:** – Displays the BV Acceptor Model Type ④ installed.
- BV Software Version:** – Displays the BV Software Version ⑤ installed within the Acceptor.
- Bank Note Information:** – These fields show the Total Insertion Data ⑥ for Inserted Notes, Accepted Notes and Rejected Notes occurrences for Banknotes. This is the data used to calculate the acceptance rate.
- Ticket Information:** – The Total Insertion Data: Fields ⑦ show the Inserted, Accepted and Rejected information for TITO Tickets. This Data is used to calculate the Acceptance Rate for TITO Tickets.
- Most Common Reject:** – Two displays ⑧ & ⑨ that list the six most common Reject Errors for both Banknotes and TITO Tickets respectively.

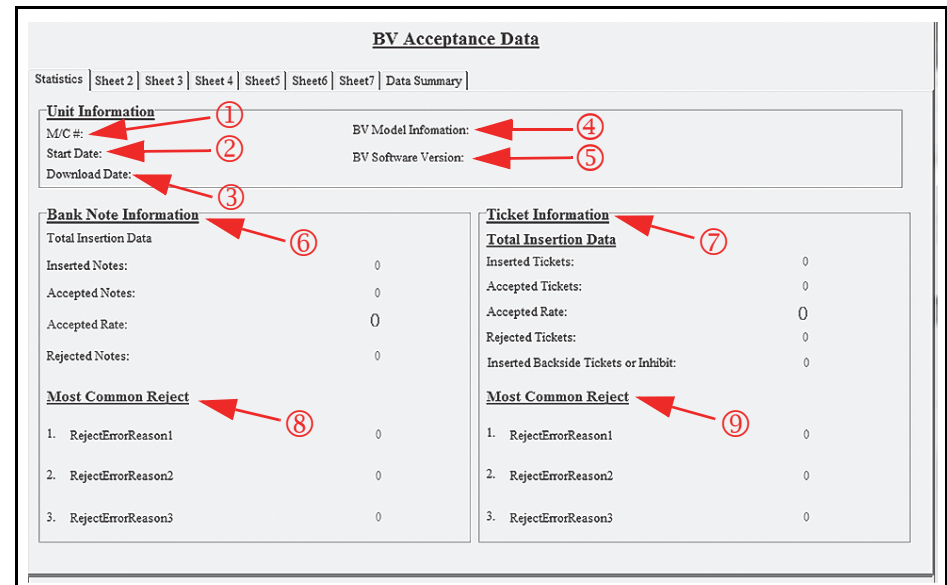


Figure 5 Initial AccLoad Program Screen (Top Portion)

SHEET 2 TAB

The following descriptions relate to the Figure 6 “Sheet 2” Page Screen Cell Areas of the Initial AccLoad™ Screen and are as follows:

1. **Denomination Data:** – This area lists the accepted Banknotes ① that are sorted by their denomination and Banknote Series (See the Specific Software Information Sheet for the specific Country’s Banknote Series acceptance information).
2. **Direction Data:** – This area indicates the Banknote or Ticket insertion orientation ②. For USA Banknote’s, the insertion direction is as follows:
 FA = Portrait upright - Black Seal first ③
 FB = Portrait upright - Green Seal first ④
 BA = Portrait down - Black Seal first ⑤
 BB = Portrait down - Green Seal first ⑥
- NOTE: Refer to the individual Country’s Software Information Sheets for direction data related to their Country’s Currencies.
3. **Rejected Note Error Data:** – This area lists 15 separate Note Reject Errors ⑦ which are used to calculate a UBA® Unit’s Acceptance Rate only.
4. **Unknown:** – This Field ⑧ displays the number of items inserted that could not be identified as a Banknote or a TITO Ticket.

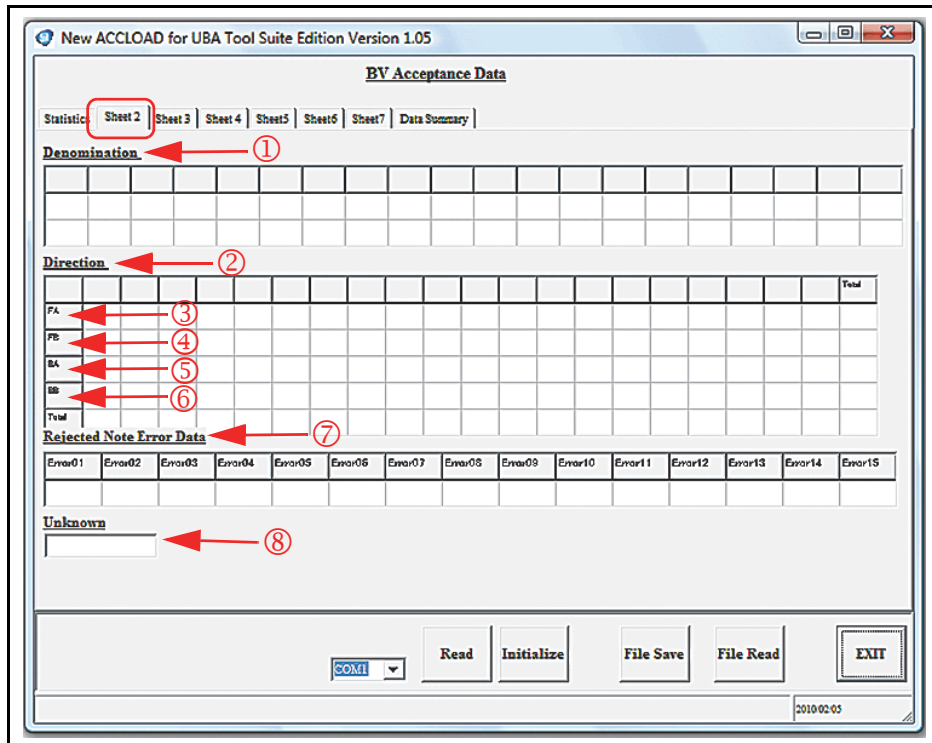


Figure 6 Initial AccLoad Program Screen (Sheet 2 Tab)

UBA ERROR CODES – ABNORMAL ERRORS

Table 3 lists the UBA® Abnormal/Malfunction Error Codes mentioned on Sheet 4 of the AccLoad™ Application Program.

Table 3 UBA Abnormal/Malfunction Error Codes

Error No.	Error Description	Possible Cause
1	Cashbox Full	Replace Cash Box
2	Stacker Pusher Mechanism Fault, Jam in Transport (1)	Check banknote jam in Cash Box, check stacker motor & encoder
3	Jam in Transport (2)	Jam at Exit Sensor
4	Jam in Acceptor	Check Banknote Path, clean sensor lens. Replace Lower Sensor PCB
5	Transport Motor Speed Error	Check debris in belts, check for Motor failure
6	Transport Motor Fault	Motor or CPU Failure (Motor Drivers)
7	Sensor Failure	Check and/or replace Upper or Lower Sensor PCB
8	Processor Communications	Check Upper Sensor PCB, Processor PCB and cable connection between the two
9	Anti Pullback Unit Fault	Check for jam at Pull Back Assembly
10	Cash box error	Re-insert Cash Box
11	ICB Module	Check ICB Function
12	Cheat Condition Detected	Check for debris in bill path, clean sensors lens
13	Centering Mechanism Solenoid Fault	Check Solenoid Function
14	Centering Mechanism Fault	Check for Jammed Centering mechanism and centering home sensor
15	Reserved	N/A

NOTE: Startup Errors for the UBA do not show in the Accload™ Program. Refer to the UBA Operations and Service Manual, Appendix A for information regarding Startup Errors (JAC No. 960-00097R).

UBA ERROR CODES – REJECT NOTE ERRORS (CONTINUED)

Table 2 lists the UBA Reject Note Error Codes mentioned on Sheet 2 of the AccLoad™ Application Program.

Table 2 UBA Reject Note Error Codes

Error No.	Error Description	Possible Cause
1	Reserved	
2	Magnetic Pattern Error	Clean Magnetic Head, Roller
3	Reserved	
4	Reserved	
5	Reserved	
6	Reserved	
7	Photo Pattern Error	Bar Code Reader
8	Reserved	
9	Reserved	
10	Reserved	
11	Reserved	
12	Escrow Sensor Check Error	Optical Sensors
13	Bill Length Error	Validating Sensors
14	Photo Pattern Error	Clean Sensors, Upper/Lower Sensor Circuit Board
15	UV optical Sensor Error	Clean UV Sensor and White Reflection Block

SHEET 3 TAB

“Sheet 3” shown in Figure 7 provides Cell Areas addressing the Acceptance Rate of each Banknote Type (i.e., FA ①, FB ②, BA ③, & BB ④) related to its specific insertion direction for its Accept, Reject, and Rate.

NOTE: See Figure 6 “Sheet 2” descriptions for details regarding the specific Insertion Direction abbreviation explanations for FA, FB, BA & BB.

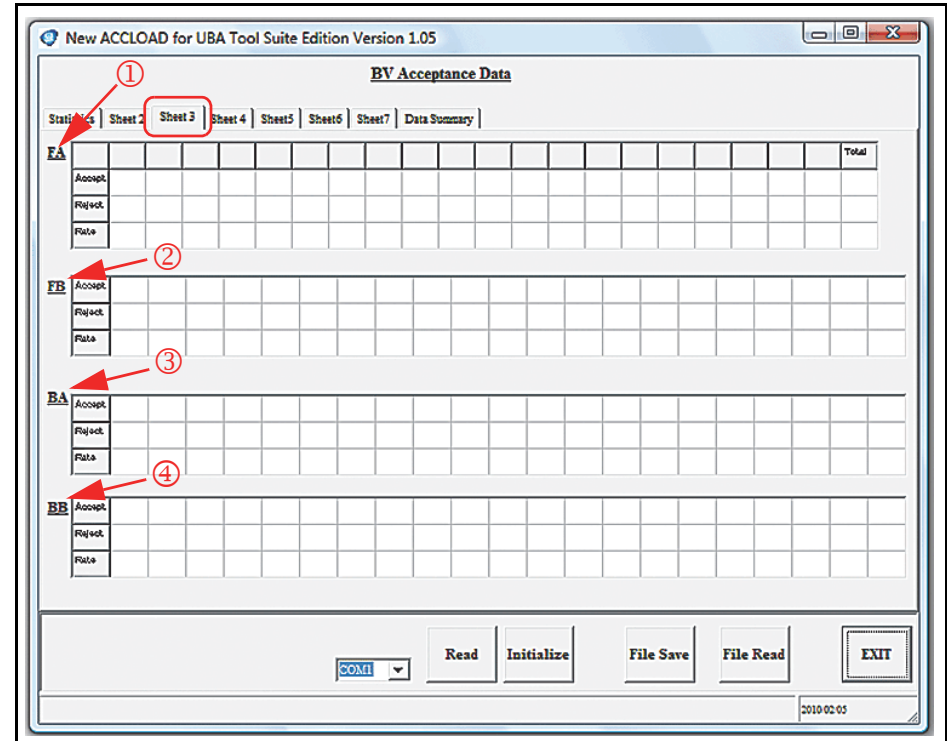


Figure 7 Initial AccLoad Program Screen (Sheet 3 Tab)

SHEET 4 TAB

The following descriptions relate to the “Sheet 4” Page Screen Cell Areas of the Initial AccLoad™ Screen and are as follows:

1. **Last Meter:** – The “Last Meter” Field ① provides the denomination of the last 10 Banknotes accepted and the direction of their individual insertions.
2. **Reject Data:** – Reject Data relates to the Banknote Return Errors ②. For the UBA® these relate to Banknote Return Errors which are not used to calculate the Acceptance Rate.
3. **Abnormal:** – Abnormal Data ③ are the error conditions that removed the UBA® or WBA® from service.
4. **Power Up:** – The “Power Up Counter” Field ④ displays a record of the number of time a WBA® or UBA® has been powered up.
5. **Bar Code Reject Counter (with Index Mark):** – This Field ⑤ indicates that TITO Tickets were properly inserted with their Barcode Index Mark in the correct position, but the Ticket was still rejected.
6. **Bar Code Reject Counter (without Index Mark):** – This Field ⑥ indicates the errors that occurred when a TITO Ticket was rejected, but the Index Mark WAS NOT detected in its proper position (e.g., The Ticket was possibly inserted upside down). See the specific code listings starting with Table 1 on Page 15.

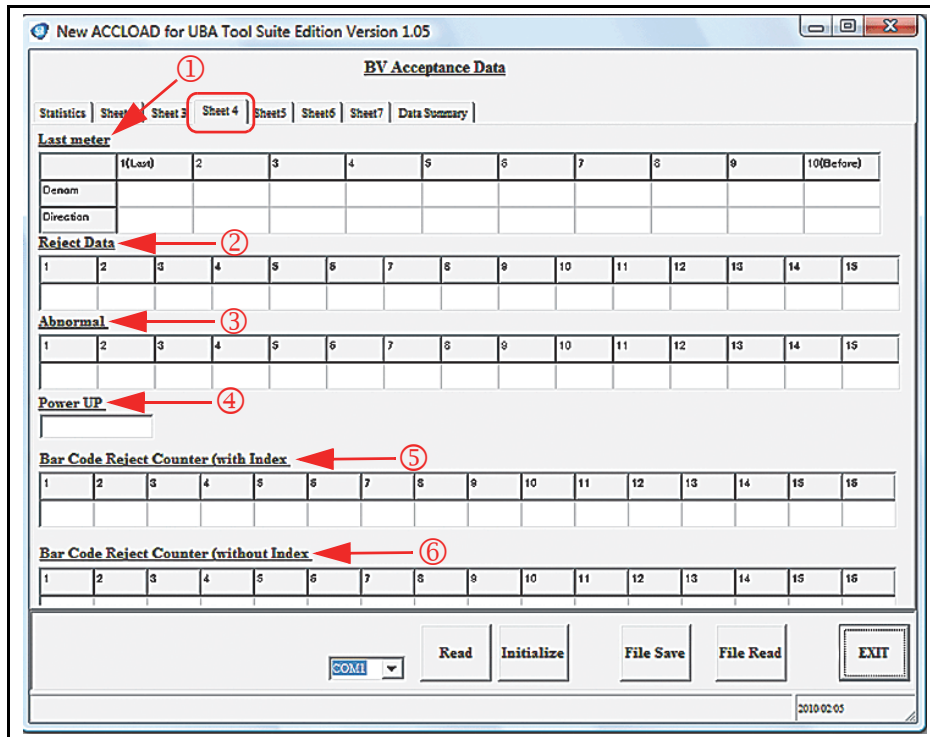


Figure 8 Initial AccLoad Program Screen (Sheet 4 Tab)

ACCLOAD ERROR CODE TABLES

UBA ERROR CODES – REJECT ERRORS

Table 1 lists the UBA® Reject Data Error Codes mentioned on Sheet 4 of the AccLoad™ Application Program.

Table 1 UBA Reject Data Error Codes

Error No.	Error Description	Possible Cause
1	Slant Insertion	Entrance Sensor, Validation Sensors
2	Magnetic Sensor Pattern Error	Clean Magnetic Head and Roller
3	Idle Detection	Check for jammed banknote, clean Optical Sensors lens
4	Sensor Adjustment	Clean Upper or Lower Sensors lens, Calibrate if continues
5	Banknote Feed Error	Clean Belts, debris blocking the Banknote
6	Banknote Identification Error	Check Banknote Condition, clean sensors lens
7	Bar Code Error	Clean Bar Code Reader lens
8	Double Detect	Double Notes inserted, clean validation sensors lens
9	Inhibit Banknote	Note Disabled by Command or dip switch setting
10	Return by Host Command	Return by Host Command
11	Reserved	Reserved
12	Banknote Detection Error	Check all banknote path sensors, clean the Sensors lens
13	Banknote Length Error	Check banknote condition, clean validating sensors lens
14	Photo Pattern Error	Check for dirty/clouded Lenses; clean the Lenses, Upper and/or Lower Sensor Circuit Board failure.
15	UV Optical Sensor Error	Clean the UV sensor and White Reflective Block

DATA SUMMARY TAB

The following descriptions relate to the Figure 12 “Data Summary” Page Screen Cells of the Initial AccLoad™ Screen and are as follows:

The “Data Summary” page provides various identifying Field Cell Count Value information that has occurred concerning the Bill Acceptor type being used such as:

M/C#: – Machine Control Number (#) assigned during initialization ①.

Start Date: – Date when data was initially cleared ②.

Download Date: –Date when the reading was taken ③.

Model: – Validator Model Type ④.

Version: – Validator’s Software Version ⑤.

Total Insertions: – Total number of Notes inserted ⑥.

Accepted Notes: – Total number of Notes accepted ⑦.

Acceptance Rate: – Percentage calculation of accepted vs. Inserted Notes ⑧.

Rejected Notes: –Total number of Notes rejected ⑨.

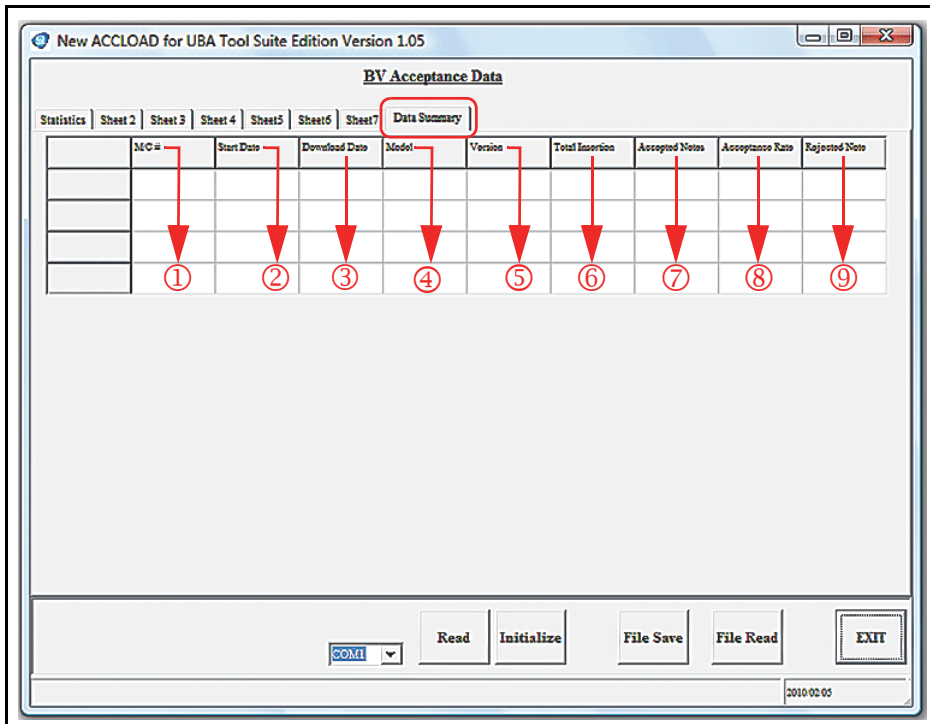


Figure 12 Initial AccLoad Program Screen (Data Summary Sheet Tab)

SHEET 5 TAB

The following descriptions relate to the Figure 9 “Sheet 5” Page Screen Buttons of the Initial AccLoad™ Screen and are as follows:

First Reject: (UBA® only) – The UBA® will try to validate a Banknote three (3) times. The First Reject action indicates that the Customer removed the Banknote from the UBA® after the first attempt to validate it occurred.

First Bar Code: – Indicates errors for First Barcode Ticket rejection ②.

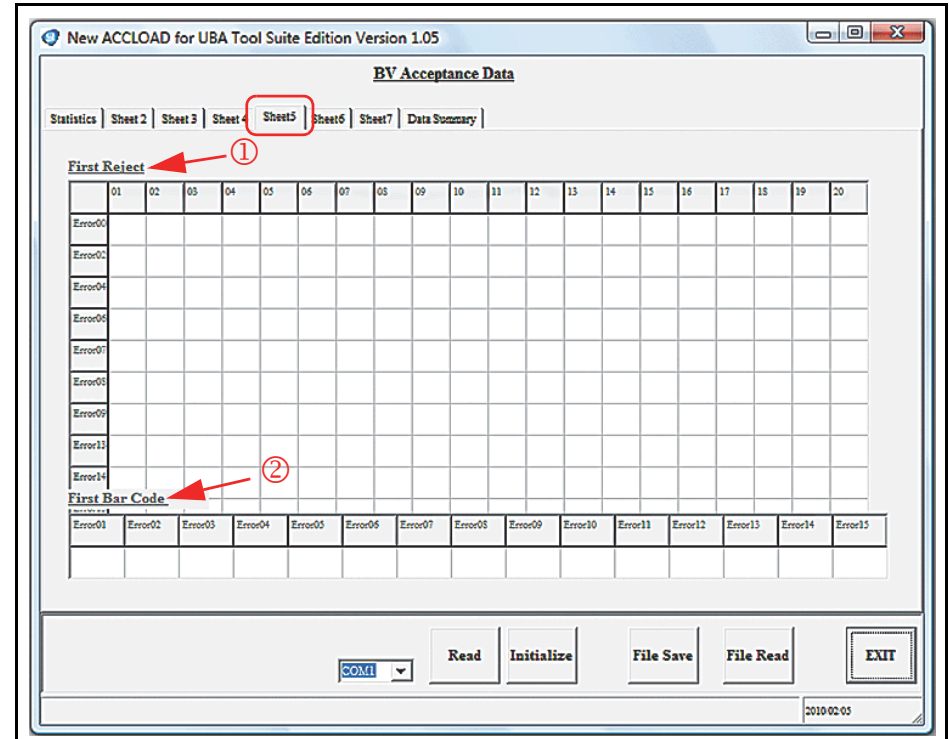


Figure 9 Initial AccLoad Program Screen (Sheet 5 Tab)

SHEET 6 TAB

The following descriptions relate to the Figure 10 “Sheet 6” Page Screen Buttons of the Initial AccLoad™ Screen and are as follows:

Second Reject: (UBA® only) – The UBA® will try to validate a Banknote three (3) times. The Second Reject ① action indicates that the Customer removed the Banknote from the UBA® after the second attempt to validate it occurred.

Second Bar Code Reject: – Indicates errors for Second Barcode Ticket rejection ②.

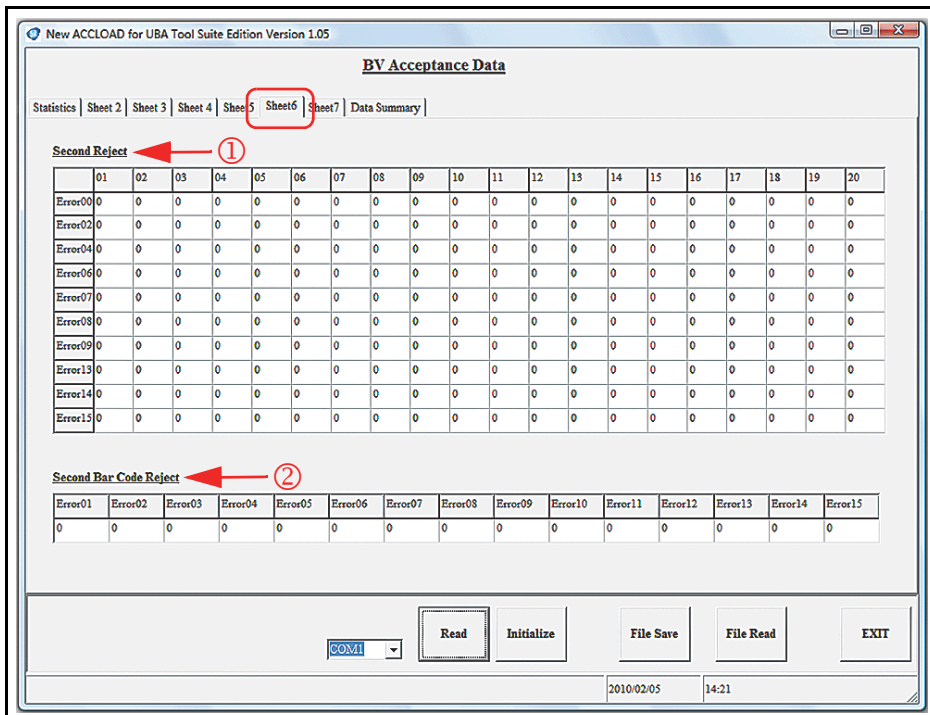


Figure 10 Initial AccLoad Program Screen (Sheet 6 Tab)

SHEET 7 TAB

The following descriptions relate to the Figure 11 “Sheet 7” Page Screen Cell Areas of the Initial AccLoad™ Screen and are as follows:

Currency Assign Table: – The “Currency Assign Table” ① lists the Banknote denomination and the Country being accepted by the WBA® or the UBA® Unit.

Model Type: – The “Model Type” ② indicates the particular Model of the particular Validator being used.

Revision: – The “Revision” ③ indicates the Software Revision within the Validator being used.

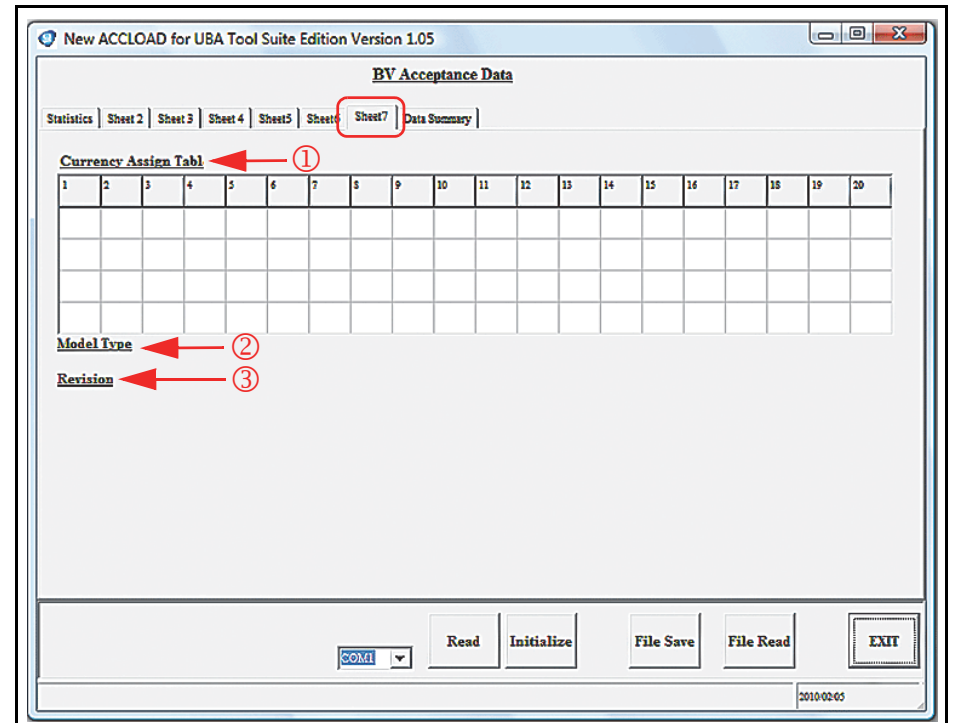


Figure 11 Initial AccLoad Program Screen (Sheet 7 Tab)