READ-WRITE TOOL PARTS LIST

Part Number - Description

- 550-100432R - ICB Printer (TSP-02)
- 550-100721R - Assy., Read-Write Tool, UBA/iVIZION (Black, w/USA Power Plug)
- 550-100747R - Assy., Read-Write Tool, UBA/iVIZION (Black, w/Euro Power Plug)
- 880-100003R - Assy., Read-Write Tool, UBA (Silver)
- 302-100001R - Serial DB-9 Male-to-Female Cable
- 302-100002R - 6-Foot Standard USA AC Power Cable
- 302-100003R - Cable, Serial DB-9 (Female-Female)
- 701-100049R - Kit, Read-Write Tool Printer Station (TSP-02)

NOTE: This Kit contains the preceding two items (e.g., the Serial DB-(F-F Cable, and the AC Power Cable).

- 950-100056R - Paper Ticket (200), Fan-Fold.

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ICB Read-Write Tool

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DIP SWITCH SETTINGS

Use the following DIP Switch settings ONLY when a Read-Write Tool needs to be manually programmed:

DIP Switch Functions

1. If DIP Switch #1 is switched OFF (enabled), it will cause the R-W Tool to enter Setup Mode. This allows Setup Values listed in Table 2, "R-W Tool Parameter Codes," on page 11 to be entered.
2. If DIP Switch #2 is switched OFF (enabled), the R-W Tool will be placed in "Shop Mode." This will allow the R-W Tool to initialize Cash Boxes even when the Inhibit Flag is set. **DO NOT** enable this option - a Cash Box could be cleared accidentally without first reading the data it contains!
3. If DIP Switch #3 is switched OFF (enabled), the R-W Tool ignores a Cyclic Redundancy Check (CRC) in the MDM messages. **DO NOT** enable this option- it could result in miscommunication between the Read-Write Tool and the MDM Program.
4. If DIP Switch #4 is switched OFF (enabled), it will cause a raw Data Print Dump to occur on Epic or Nanoptix Printers. This mode should not be set since the R-W Tool will no longer print normally when this Switch is enabled.

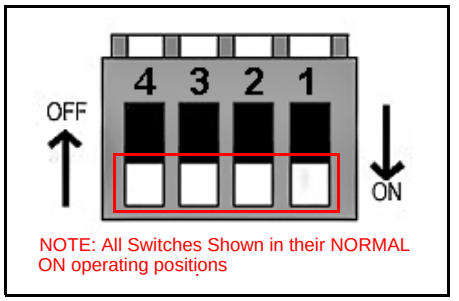

Figure 14 R-W Tool DIP Switches

NOTE: The NORMAL Operating condition for the R-W Tool Switches is ALL ON.

Lecture Notes

READ-WRITE TOOL SENSOR CALIBRATION

To calibrate a Read-Write Tool's Sensors, proceed as follows:

1. Enter Setup Mode and open the HyperTerminal Program.
2. Type %CAL* to initiate the Calibration Program.
3. Follow the instructions shown on the HyperTerminal Screen, as shown in Figure 13.

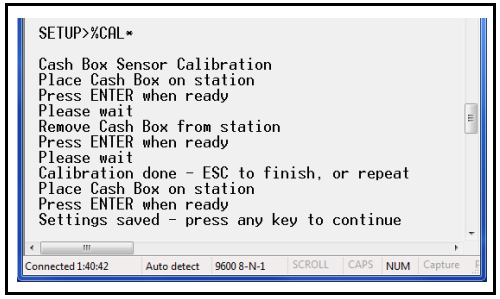

Figure 13 "Setup>%CAL*" Menu

NOTE: The Read-Write Tool should be calibrated in the same environment and the same light conditions in which it will be operated.

NOTE: This Calibration Procedure only applies to the Black Read-Write Tool.

Lecture Notes

OVERVIEW

This Training Course addresses the following JCM ICB Read-Write Tool Software Versions, or newer:

Table 1 Read-Write Tool Versions

Device	Version Difference
Silver Read-Write Tool	V3.04.08 (24 September 2010)
Black Read-Write Tool	V5.01.09 (29 December 2011)
Printer Station	V1.01C (DADO)

TARGET COMPONENTS

- Read-Write Tools
- Printer Station
- Cash Boxes

FEATURES

- Used to read ICB Data from enabled Cash Boxes in the Count Room. Once the Cash Box data is read, it is "Cleared," allowing re-installation of the Cash Box to any Asset on the Casino Floor.
- Used to Initialize a Cash Box with a unique Serial Number
- Communicates with a Printer to output a summary copy of the Cash Box ICB Data
- Communicates with a connected PC running the MDM Application, transferring data from the Cash Box ICB Module to the MDM Application.

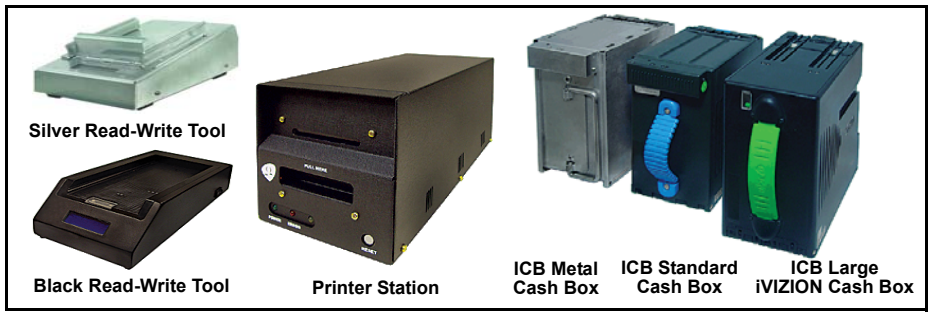

Figure 1 Read-Write Tool Primary Components

Lecture Notes

READ-WRITE TOOL CONFIGURATION

Connect the Docking Station to a PC Computer as follows:

1. Connect the Read-Write Tool to the PC using a Standard Male-to-Female DB-9 Serial Communication Cable between Units (See Figure 2).
   - Connects to the TOP COM Port of the Silver Read-Write Tool Unit.
   - Connects to the LEFT COM Port of the Black Read-Write Tool Unit.

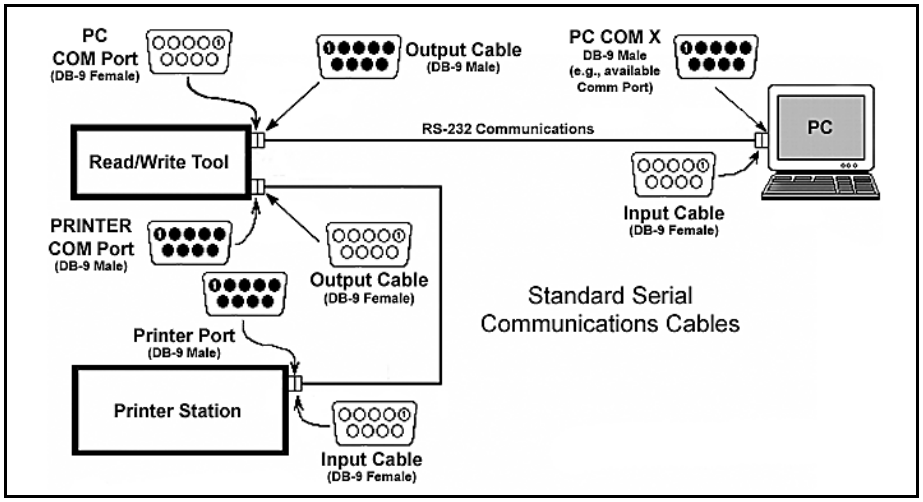

Figure 2 Typical Read-Write Tool Signal Connections

2. Connect the Read-Write Tool to the Printer using a standard Female-to-Female DB-9 Serial Communication Cable between Units.
   - Connects to the BOTTOM COM Port of the Silver Read-Write Tool Unit.
   - Connects to the RIGHT COM Port of the Black Read-Write Tool Unit.

NOTE: Connections to a G&D DEG/Linker, Cummins or GM Pact LTS Printer will use a different Cable connection configuration.

Lecture Notes

RE-FLASHING BLACK R-W TOOL SOFTWARE USING HYPERTERMINAL

To Re-flash the Black Read-Write Tool Software using HyperTerminal, proceed as follows:

1. Type %RFL* and press the PC Keyboard **ENTER** ↵ Key.
   The HyperTerminal Program will return the following message:

```
SETUP>%RFL*

Send HEX file as text now
```

2. Mouse-click Transfer on the HyperTerminal Screen, and select "Send Text File…" from the Pull-down Menu selections available (See Figure 11 a & b).

NOTE: On the "Send Text File" Screen, change the combo box setting from Text Files (.txt) to All Files (*.*) as shown in Figure 12a.*

3. Select the new Software Hex-File from the displayed Windows® File Menu (See Figure 12 b). HyperTerminal will download to the Unit and return the following response:

```
_
File Complete, final address 6757
Programming block 6700
Checking CRC, please wait

Reflash success, Press any key_
```

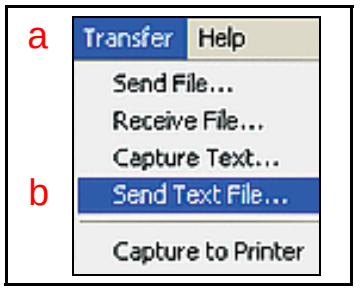

Figure 11 Send Text File Select Menu

NOTE: This Command only applies to the Universal (Black) Read-Write Tool.

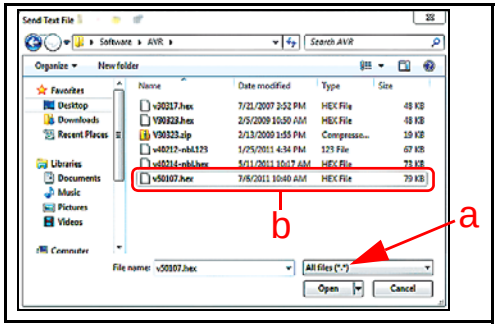

Figure 12 "Send Text File…" Menu

Lecture Notes

BATCH FILE PROCESSING

Batch File Start — %%%%%

1. Accepts NO parameters.
2. This is a Special Code used to start Batch Processing. It can be used if a number of Read-Write Tools need to be set up containing similar data (e.g., five (5) or six (6) Read-Write Tools require a similar setup containing the same User Strings and other Parameters for use at the same Site). Instead of doing each Parameter separately, they can be listed in a simple Text File and sent to the Read-Write Tool as a Batch File. The Batch File must begin with a "%%%%%" Command, and must finish with an "%END%" command.

Example Batch File

The following is an example of a Set-up Batch File. It can be pre-written and downloaded to the ICB Read-Write Tool using the HyperTerminal "send text file" Command. Any variable Parameters, such as the Station Identifier, can be manually edited afterward. The Set-up File must start with five (5) percentage (%) Characters and finish with an %END% Command.

NOTE: The format is quite open. The Commands may be in Upper or Lower Case, or mixed. Comments may be freely included, but will be ignored. Anything on a line after the required Parameter exists is treated as a comment and will be ignored. Remember that the Read-Write Tool has limited memory, and the total length of its file should be kept to 500 bytes or less; so don't elaborate by using too many comments.

A typical Batch File will read as follows:

- comment line, will be ignored
- %%%%% ; enter batch mode
- %CLR% ; clear memory if required
- %PRN% 1 ; printer type (0..7)
- %ACC% 1 ; account print ON/OFF (0..1)
- %SRL% 1 ; Serial comms on/off (0..1) - cancels TCP
- %TCP% 0 ; TCP comms on/off (0..1) - cancels Serial
- %BRO% 0 ; cash box read only on/off (0..1)
- %BAI% 1 ; cash box auto initialize on/off (0..1)
- %UH1% " JCM AMERICAN CORP"
- %UH2% " 925 PILOT ROAD"
- %UH3% " LAS VEGAS, NV 89119"
- %UH4% ; use a single space to erase a line
- %STN% "DS TEST 1" ; station identifier
- %DBN% 40000 ; default cash box number
- %END% ; terminate batch mode.

R-W TOOL – ENTERING SETUP MODE

Three (3) different methods can be used to enter Setup Mode:

• By DIP Switch

1. Ensure that power is removed from the Docking Station Components.
2. Remove the Bottom Cover of the Read-Write Tool Unit.
3. Turn DIP Switch Block Switch #1 to **OFF** (See Figure 3 **a**).
4. Temporarily re-install the Read-Write Tool's Bottom Cover.
5. Apply power to the Docking Station Components.

• By Setup Dongle

1. Install the Setup Dongle (See Figure 3 b_1) onto the Read-Write Tool's PC COM Port Connector, in-line with the RS232 Serial Cable (See Figure 3 b_2), and connect the opposite end of the Serial Cable to an available COM Port on the PC.
2. Apply Power to the Docking Station Components.

• By Power ON/OFF

– Turn the Power Switch ON/OFF four (4) times in succession.

NOTE: This feature is active in Read-Write Tool software version 5.01.11.

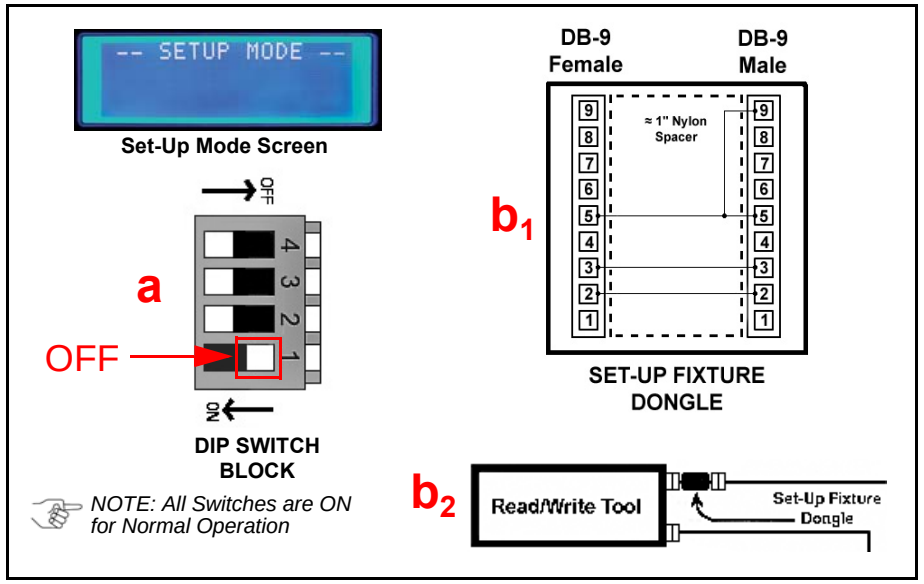

Figure 3 Read-Write Tool Setup & Dongle Pin Configuration

ACCESSING INFORMATION

Setup Parameters and related information are accessed using HyperTerminal. To access information using HyperTerminal with the Read-Write Tool, proceed as follows:

1. Open HyperTerminal on the PC. The New Connection - HyperTerminal Primary Menu Screen (Figure 4) will appear.

   NOTE: HyperTerminal is included on the distribution CD for the ICB System. If it is not yet installed on your PC, install HyperTerminal from the CD, specifying the directory of your choice.

2. Enter a name for the new HyperTerminal connection in the Connection Description Name: Field (See Figure 5 a).
3. Select an ICON from the Slider Bar to identify the connection (See Figure 5 b).
4. Mouse-click on the "**OK**" [OK] Screen Button to record the Connection Description and selected Icon (See Figure 5 c).

   The '**Connect To**' screen will appear (see Figure 6 on Page 7).

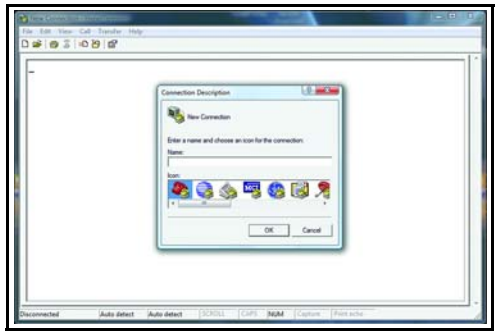

Figure 4 HyperTerminal Main Menu

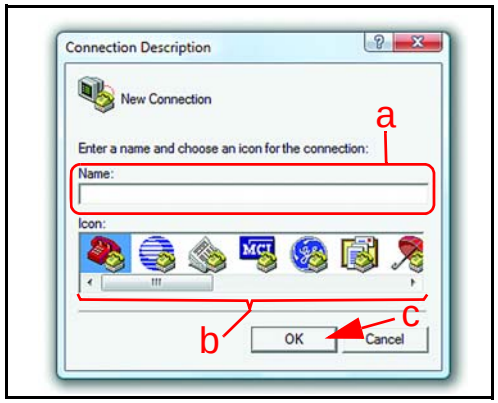

Figure 5 HyperTerminal Connection Description Dialog Screen

Lecture Notes

Type 25 = Clear Memory — %CLR%

1. Accepts NO parameters.
2. Clears the Read-Write Tool's Non-volatile RAM. This is intended for future Software enhancements, when Cash Box Data will be stacked in NVR for later upload to an MDM System. It should be used only during the initial Setup Mode. Currently, it only effects erasure of the default Cash Box Number.

Example

NOTE: It does not affect the other Setup Parameters, which are stored in EEPROM.

%CLR% = Clears all Non-volatile Memory to 00.

Type 26* = Display Meters — %MET%

1. Accepts NO parameters.
2. This will display the Read-Write Tool's Internal Meters, starting with the Life-time Totals since the Read-Write Tool was installed, and followed by Totals for the past 30 days. The Meter readings include Days in use, Total Cash Boxes docked, and the total situations involving different problems encountered.

Example

%MET% = Displays the Internal Meters.

*. For use with the Black Read-Write Tool Only.

Type 27 = End Setup — %END%

1. Accepts NO parameters.
2. When power is first applied to a Read-Write Tool following a Program re-flashing, it automatically defaults into Setup Mode. This Command writes a Flag in the EEPROM to tell the Read-Write Tool it has just been set up, and should advance to the Operational Mode during the next power-up. It is also used as a Terminator in Set-up Batch Files.

Example

%END% = Marks the initial Set-up complete and ends Batch File Processing.

Lecture Notes

Type 22 = Set Current Date — %DAT%

1. Accepts a 6 Digit Numeric Field.
2. Used to set the Real-time Clock Date. Enter Data as day-day-month-month-year-year with no spaces, colons or dashes. All 6 Digits must be present.

Example

%DAT% 010212 = Sets the Date to February 1, 2012

NOTE: If the Read-Write Tool is connected to MDM, its Real-time Clock will be set automatically to the date and time sent by MDM when reading and initializing a Cash Box.

Type 23 = Set Current Time — %TIM%

1. Accepts a 6 Digit Numeric Field.
2. Used to set the time on the Real-time Clock. Data should be entered as **hr-hr-min-min-sec-sec** with no spaces, colons or dashes. All 6 digits must be present. Time should always be entered as Military time (i.e., in a 24 hour clock format).

Example

%TIM% 183100 = Sets the Time to 18:31:00 (i.e., 6:31 PM)

NOTE: If the Read-Write Tool is connected to MDM, its Real-time Clock will be set automatically to the date and time sent by MDM when reading and initializing a Cash Box.

Type 24 = Default Box Number — %DBN%

1. Accepts a numeric parameter of up to 20 Digits in length.
2. This parameter sets the base number used to initialize blank Cash Boxes not connected to an MDM System. When a mounted Cash Box containing a data error exists and "Auto-init" is enabled, it will be given the current default Cash Box Number. The new default number will then be incremented by 1.
   The data field may be up to 20 Digits in length, but if it is less than 20 digits long, it will be padded with leading Zeros to equal a 20 Digit length. Only Numeric Characters between 0 and 9 may be used. Read-Write Tools in the same group should have default Cash Box Numbers differing by a high Digit - otherwise, a risk of assigning two (2) Cash Boxes the same number will exist. Unlike the other Setup Parameters, this default number is held in Non-volatile RAM, and will be cleared by the "Clear Memory" Command (See Type 25 %CLR%).

Example

%DBN% 400000 = Sets the default Cash Box Number to 00000000000000400000.

NOTE: When using Re-numbering, the Default Cash Box Number increments. It will be set to the last Cash Box initialized.

Lecture Notes

PROVIDING SETUP INFORMATION

The HyperTerminal Communication "**Connect To**" Screen (Figure 6) provides Pull-down Menu and Text Field information for the following Fields:

1. **Country/region:** — …
2. Area code: — …
3. Phone number: — …

NOTE: As shown in Figure 6a, Fields 1-3 (above) appear grayed-out. They are not used, and are unavailable for text entry.

4. Connect Using: — Select an available PC Communication COM Port from the Pull-down Menu (See Figure 6 b). All available COM Ports will be displayed.

NOTE: Select the COM Port that the Read-Write Tool is connected to.

5. Click on the "OK" [OK] Screen Button to record the selections and proceed to the next Screen (See Figure 6 c).

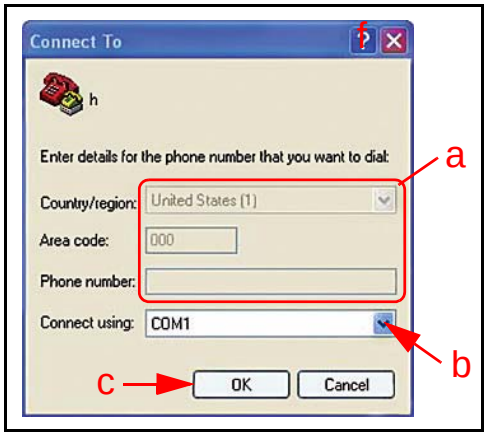

Figure 6 HyperTerminal Communication Connection To Screen

Lecture Notes

COMMUNICATIONS PORT VERIFICATION

The next HyperTerminal Communication "**COM'X' Properties**" Screen shown in Figure 7 will appear when the COM Port is selected. Verify that the default values displayed in Figure 7a through Figure 7e are as follows:

- **Bits per second:** = 9600
- **Data bits:** = 8
- **Parity:** = None
- **Stop bits:** = 1
- **Flow control:** = None

If all of the Port Settings are correct, click on the "**OK**" [OK] Screen Button (See Figure 7 f) to record the selections, and proceed to the next Screen that appears.

However, if changes are made, Mouse-click on the "Apply" [Apply] Screen Button (See Figure 7 g) to record the changes, and then click on the "**OK**" [OK] Screen Button to proceed to the next Screen that appears.

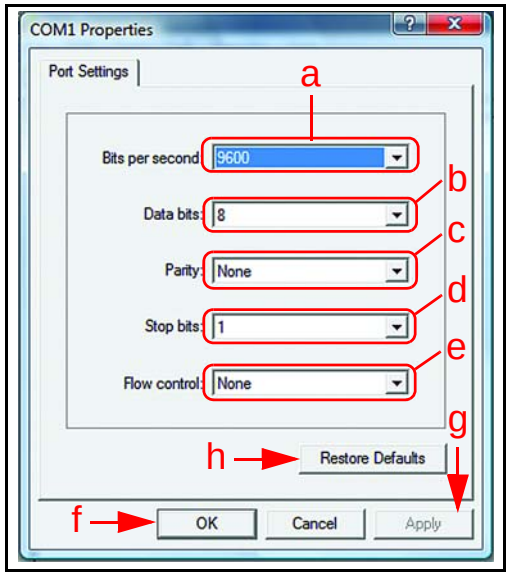

Figure 7 HyperTerminal COM 1 Properties Port Settings Screen

*NOTE: If erroneous entries are suspected, click the **Restore Defaults** screen button to restore default values* (See Figure 7 **h**).

Lecture Notes

Types 16-19 = User Headers — %UH1%, %UH2%, %UH3%, %UH4%

1. Accepts an Alphanumeric String Parameter of up to 30 Characters in length.
2. The four (4) User Header Fields are provided to customize the Ticket Printout when using TSP02, EPIC and PayCheck 4 Printers. These fields may each be up to 30 Characters in length and can be used for identifying the Site Name, Address or any other information required by the user. The string parameter **must** be enclosed inside Double Quotation Marks (""), and may use any printable characters (including a Space) **except** Double Quotation Marks ("").

NOTE: When using the TSP02 Printer, avoid using Lower-Case Letters. The TSP02 does not print descender Characters, and will therefore have a problem with the Letters "g", "p", "q" and "y". This is not an issue with an EPIC or a PayCheck 4 Printer, however.

Example

%UH1% "FIRST LINE OF ADDRESS" = Print the FIRST LINE OF ADDRESS at the top of each Ticket.

Type 20 = Station ID — %STN%

1. Accepts an Alphanumeric String Parameter of up to 30 Characters in length.
2. This field is intended for recognizing a Read-Write Tool Identifier String. It will be printed as entered on TSP02, EPIC and PayCheck 4 Printers. Note that the G&D DEG/Linker will use the last Numeric Digit in this Field as the Station Identifier. Therefore, when using the G&D DEG/Linker, this field must end with a Numeric Digit (0 to 9), and every Station in a group must have a different assigned Digit.

Example

%STN% "ICB STATION 6113" = Prints "ICB STATION 6113" on each Ticket (TSP or EPIC), or identifies this as Station 3 to the DEG/Linker.

Type 21 = Asset Number Mask — %ANM%

1. Accepts Numeric values of 0-9 for each location in the Field.
2. This option allows the insertion of a fixed value Number at the beginning, middle or end of the Asset Number.

For example, suppose all Asset Numbers need to begin with the Number 2. The Number "2" can be placed as the first Digit in the Asset Number Mask, then the printed and saved Asset Numbers will begin with the Number 2.

Example

%ANM% "---------2----------" = Placing the Number "2" as the 10th Digit within each Asset Number.

*NOTE: The correct number of Dashes (-) must be entered before **and** after the required Digit! This indicates that the Number read from the Cash Box is the Number to be placed at this location. The %ANM% Parameter is 20 Digits in length. Hence, the Asset Number being programmed into the Validator is 14 Digits long in this case.*

Type 14* = Data Capture Mode — %DCM%

1. Accepts one Numeric Parameter (0 or 1):
   - 0 = Data Capture OFF
   - 1 = Data Capture ON.
2. Enters off-line data capture mode.
   This Mode is intended for situations where the Read-Write Tool MUST BE taken to the Cash Box location, rather than bringing the Cash Box to the Read-Write Tool (e.g., during route operations). The Read-Write Tool will read and clear Cash Boxes and retain the data in memory even when turned off. When subsequently connected to an MDM System, it will report each Cash Box in turn from memory, as if the Cash Box was physically present on the Read-Write Tool. On receipt of an MDM "initialize box" command, it will delete the current Cash Box data and report the next, if any.

NOTE: Serial MDM communications must be turned OFF during this whole operation, otherwise the Read-Write Tool will revert to normal operation. Selecting Data Capture Mode automatically turns off serial MDM communications. Also, if the Read-Write Tool is in Read Only mode so that the Cash Boxes are not cleared when read, the data is not captured, to prevent the possibility of fraud and double reporting.

Example
%DCM%1 = Select Data Capture Mode.

*. For use with the Black Read-Write Tool Only.

Type 15 = Double Read — %DRD%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = Double Read is disabled
   - 1 = Double Read is enabled.
2. This option adds a second Read Cycle to verify the contents of the Cash Box were written correctly during initialization.
   If the second Read is different than the first Read, then the Read-Write Tool LED will flash RED, to indicate that an error occurred. The ticket will print. This command is useful if a large number of CRC errors are occurring.

*NOTE: This feature is implemented in Read-Write Tool software version **5.01.11**.*

Example
%DRD% 1 = Enables the Double Read Function.

Lecture Notes

SET UP DISPLAY ENTRIES

Setup Display information is accessed using the HyperTerminal Mode.
To display the Setup information for the Read-Write Tool, proceed as follows:

1. Open HyperTerminal on the PC (See Figure 8).

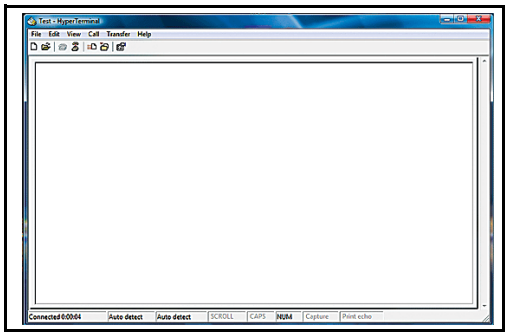

Figure 8 Initial Test - HyperTerminal Screen

2. Press the **ENTER** ↵ Keyboard Key. The Read-Write Tool Parameters Screen will appear (Figure 9).

NOTE: This is a SAMPLE HyperTerminal Screen. The actual settings made for your System may be different than shown.

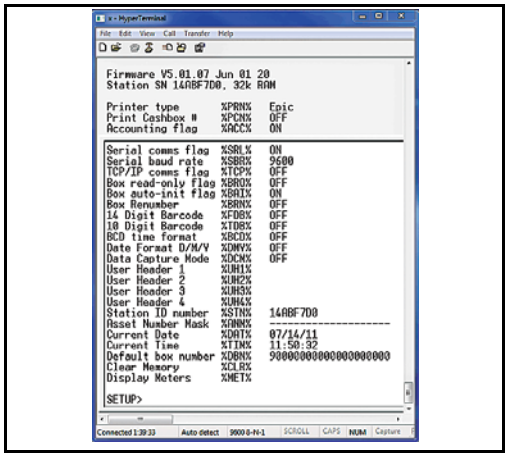

Figure 9 Read-Write Tool Parameters Screen

Lecture Notes

CHANGING PARAMETERS

To change a Parameter, proceed as follows:

1. **Open HyperTerminal** on the PC.
2. Press the **ENTER** ↵ Keyboard Key to display the current Read-Write Tool Parameters.

   NOTE: Print this Screen before making any changes to the Read-Write Tool Parameters. Then, if changes made do not work properly, it will be easy to revert back to the original setting conditions.

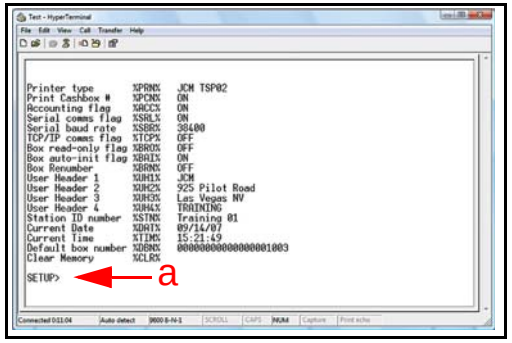

Figure 10 Read-Write Tool Parameters Screen

3. **Enter a Command Line** on the HyperTerminal Access Screen following the **SETUP>** prompt (See Figure 10 a). The Command Format is as follows:

   A. Turn options ON or OFF using the following data entry:
   - 0 = OFF
   - 1 = ON

   NOTE: ***SETUP>*** *%ACC% 1 (e.g., Turns the Accounting Flag ON).*

   B. Enter Text between Quotation Marks ("_").

   NOTE: The Quotation Marks must completely enclose the Text statement (e.g., ***SETUP>*** *%STN% "TEST" [e.g., Sets the Station ID to the word "TEST"]).*

   C. To Erase a field, place NO Text between Quotation Marks ("").

   NOTE: The Quotation Marks must not contain any Text between them (e.g., ***SETUP>*** *%STN% "" [e.g., Erases the Station ID]).*

4. **Use Proper Syntax**

   A. Syntax is **VERY IMPORTANT**. A Backspace (⟵) CANNOT be used to correct a typing error on a "Silver" Read-Write Tool! If an error is made, press the **ENTER** ↵ Key and re-start the Command Line all over again.

   NOTE: The UBA/iVIZION Black R-W Tool supports Backspacing beginning with Software Version 5.01.07.

   B. To change the Printer type from a **JCM TSP02** to an **Ithaca Epic** or **PayCheck 4** Brand, type "**%PRN% 2**" Capital Letters at the **SETUP>** Prompt. The Printer option will appear as:

Printer Type	**%PRN%**	**Ithica Epic**

NOTE: This Barcode Format ONLY AFFECTS TSP-02 PRINTERS! PayCheck 4 Printers will always print a 20 Digit Barcode, and no other printer option will create a Barcode. This feature is available in Firmware Version ***V3.03.17*** *and later.*

Type 11 = 10 Digit Barcode — %TDB%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = 20 Digit Barcode
   - 1 = 10 Digit Barcode.
2. This option shortens the Asset Number Barcode from the default 20 Digits to 10 Digits in length.

Example

%TDB% 1 = Activates the 10 Digit Barcode feature.

Type 12 = BCD Time Format — %BCD%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = Binary Time Format
   - 1 = BCD Time Format.
2. This option changes the Date/Time Format reported to MDM between Binary Mode (when OFF) and BCD Mode (when ON). Earlier Versions of MDM reporting Software will expect the BCD Format, but the latest Software Versions expect the Binary Format – which is the actual unmodified data reported by the Cash Box being logged for Diagnostic purposes.

NOTE: Check the Date Fields in the MDM reports to see which Format is required for the particular Software being used. This feature is available in firmware version ***V3.03.17*** *and later.*

Example

%BCD% 1 = Selects the BCD Date and Time Format.

Type 13* = Date Format D/M/Y — %DMY%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = MM/DD/YY
   - 1 = DD/MM/YY.
2. This Option changes the Date Format to Day, Month, Year (when ON), and Month, Day, Year (when OFF).

Example

%DMY% 1 = Date shown in DD/MM/YY Format.

*. For use with the Black Read-Write Tool Only.

Lecture Notes

Type 8 = Box Auto Initialize Flag — %BAI%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = Cash Box Auto-init disabled
   - 1 = Cash Box Auto-init enabled.
2. This option allows the Read-Write Tool to initialize Cash Boxes with preset default Cash Box Numbers (See Type 24 %DBN%) if communication with the MDM is lost.

NOTE: If both Serial and TCP/IP Options are disabled, the Read-Write Tool will always "Auto-init" regardless of this setting.

Example

%BAI% 1 = Turns the Cash Box Auto-Init Feature ON.

NOTE: This setting should be normally ON.

Type 9 = Box Renumber — %BRN%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = C/B Renumbering is OFF
   - 1 = C/B Renumbering is ON.
2. This option turns the Box Re-number Service Mode ON. Every Cash Box placed on the Read-Write Tool will be re-numbered in order, starting with the default box number previously set (See Type 24 %DBN%). DO NOT LEAVE THIS FLAG ON FOR REGULAR USE! It is intended for Service use only.

Example

%BRN% 1 = Turns Cash Box re-numbering ON.

NOTE: This function is used to initialize Cash Boxes.

Type 10 = 14 Digit Barcode — %FDB%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = 20 Digit Barcode
   - 1 = 14 Digit Barcode.
2. This option shortens the Asset Number Barcode from the default 20 Digits to 14 Digits in length. It is necessary for some types of Count Room Software, but causes fatal errors to occur with others.
   Use it only when a 20 Digit Barcode causes operational problems in Soft Count. This Barcode is formed using the Most Significant 14 Digits of the Asset Number (e.g., the six (6) Least Significant Digits are lost).

Example

%FDB% 1 = Activates the 14 Digit Barcode feature.

Lecture Notes

R-W TOOL PARAMETER LIST

Table 2 lists the available Parameter Type and its related Acronym Code.

Table 2 R-W Tool Parameter Codes

Type	Name	Parameter
1	Printer Type	%PRN%
2	Print CashBox #	%PCN%
3	Accounting Flag	%ACC%
4	Serial Comms Flag	%SRL%
5	Serial Baud Rate	%SBR%
6	TCP/IP Comms Flag	%TCP%
7	Box Read-Only flag	%BRO%
8	Box Auto-Init Flag	%BAI%
9	Box Renumber	%BRN%
10	14 Digit Bar Code	%FDB%
11	10 Digit Bar Code	%TDB%
12	BCD Time Format	%BCD%
13*	Data Format D/M/Y	%DMY%
14*	Data Capture Mode	%DCM%

Type	Name	Parameter
15	Double Read	%DRD%
16	User Header 1	%UH1%
17	User Header 2	%UH2%
18	User Header 3	%UH3%
19	User Header 4	%UH4%
20	Station ID number	%STN%
21	Asset Number Mask	%ANM%
22	Current Date	%DAT%
23	Current Time	%TIM%
24	Default Box Number	%DBN%
25*	Clear Memory	%CLR%
26	Display Meters	%MET%
27	End Setup	%END%
-	-	-

* For use with a Black Read-Write Tool Only.

R-W TOOL PARAMETER CODE DEFINITIONS

The following pages list the Parameter Types and Code usage definitions.

Type 1 = Printer Type — %PRN%

1. Accepts one Numeric Parameter (0 to 7).
2. Select the Silver Read-Write Tool Printer Type according to the following list:
   - 0 = No Printer
   - 1 = JCM TSP02
   - 2 = Ithaca Epic/PayCheck 4 (with Epic Emulation Software)
   - 3 = GM Pact LTS (Ticketrax)
   - 4 = Cummins Allison
   - 5 = G&D DEG/Linker & HHC
   - 6 = No Printer
   - 7 = No Printer

Example

%PRN% 1 = Set JCM TSP02 Printer.

3. Select the Black Read-Write Tool Printer Type according to the following list:
   - 0 = No Printer
   - 1 = JCM TSP02
   - 2 = Ithaca Epic/PayCheck 4 (with Epic Emulation Software)
   - 3 = GM Pact LTS (Ticketrax)
   - 4 = Cummins Allison
   - 5 = G&D DEG/Linker & HHC
   - 6 = Nanoptix "Spill Proof" Roll Printer
   - 7 = No Printer

Example

%PRN% 2 = Set Ithaca Epic/PayCheck 4 Printer.

Type 2 = Print Cashbox # — %PCN%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = prints Asset Number on Ticket & a Barcode
   - 1 = prints Cash Box Number on Ticket & a Barcode.
2. Controls the printing of a Cash Box Number.

Example

%PCN% 1 = Turns Cash Box Number Printing ON.

Type 3 = Accounting Flag — %ACC%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = print NO details
   - 1 = print details.
2. Controls printing of the Bill and Total details.

Example

%ACC% 1 = Turns Accounting Details ON.

NOTE: This function will be OFF for most installations.

Type 4 = Serial Comms Flag — %SRL%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = Serial Communications disabled
   - 1 = Serial Communications enabled.
2. Enables Serial Communication with the MDM Computer.

NOTE: This command is interactive with the Type 6 TCP/IP Option (see Page 13). Only ONE (SERIAL or TCP/IP) Command may be active at a time: so enabling SERIAL will disable TCP/IP. or visa-versa.

Example

%SRL% 0 = Turns Serial Communications OFF.

NOTE: Turn OFF for Stand Alone Mode.

Type 5 = Serial Baud Rate — %SBR%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = 38400 Baud Rate active
   - 1 = 9600 Baud Rate active.
2. Enables communications Baud Rate speed changes for communication with MDM. The only valid Baud Rates available are 9600 and 38400.

Example

%SBR% 1 = Sets Baud Rate to 9600 Baud.

Type 6 = TCP/IP Comms Flag — %TCP%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = TCP/IP Communications disabled
   - 1 =TCP/IP Communications enabled.
2. Enables TCP/IP Communications with the MDM Computer.

Example

%TCP% 1 = Turns the TCP/IP Communications ON.

NOTE: This Command is interactive with the Type 4 Serial Comms Flag (%SRL%) Option described above. Only one (Serial or TCP/IP) may be active at a time; so enabling TCP/IP will automatically disable the Serial Comms Flag Option setting and visa-versa.

Type 7 = Box Read Only Flag — %BRO%

1. Accepts one Numeric Parameter (0 or 1).
   - 0 = box read-only disabled (Normal operation)
   - 1 = box read-only enforced (Special operation).
2. When set, this Parameter prevents the Read-Write Tool from writing to the Cash Boxes. The Cash Box contents can be read, communicated and printed, but CANNOT be cleared or initialized. This feature is intended for special audit purposes and would not be used in normal circumstances.

Example

%BRO% 1 = Turns the Box Read Only Feature ON.

Lecture Notes