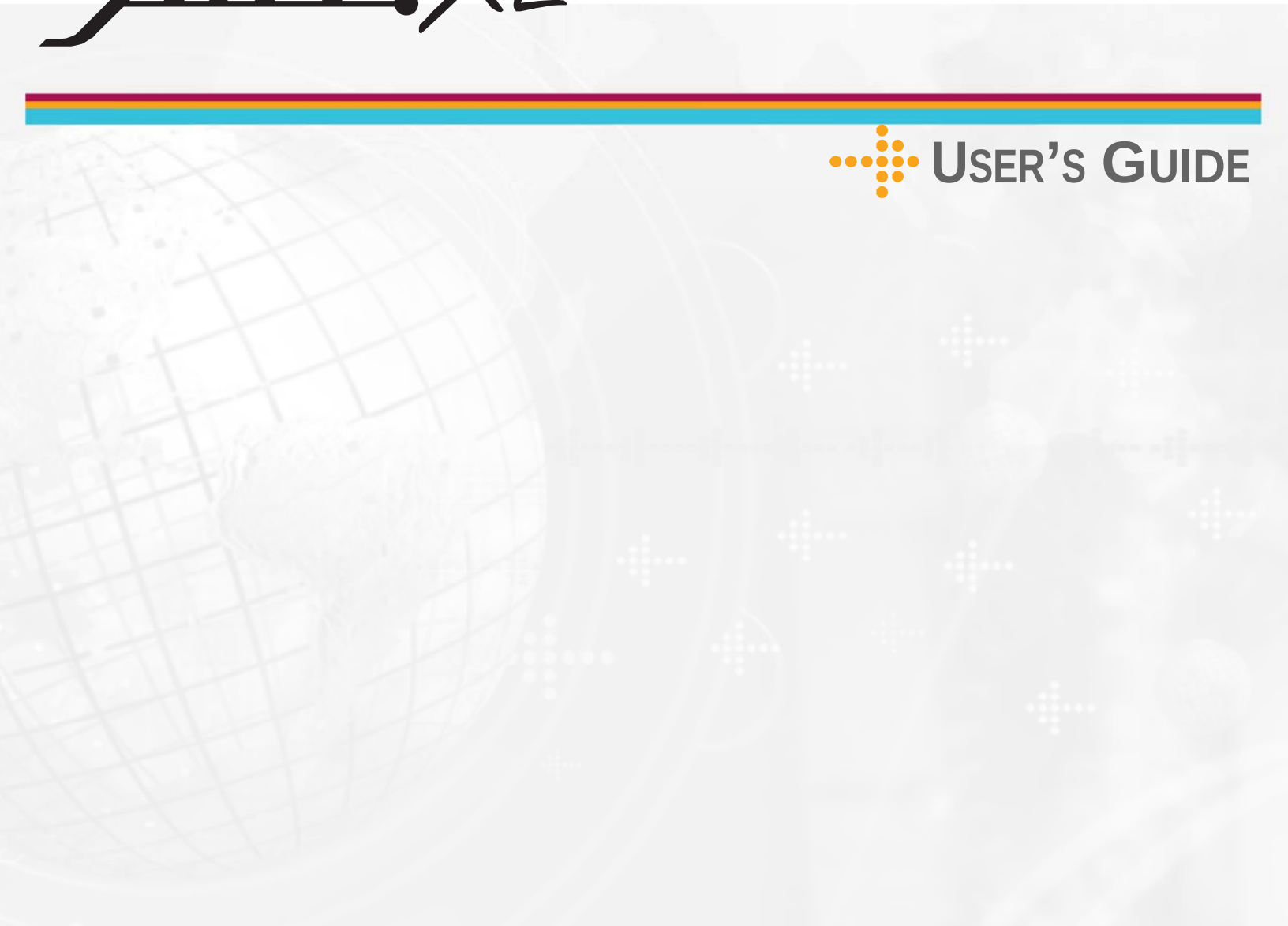


*jett.*XL



USER'S GUIDE

JETT•XL USER'S GUIDE

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CONTACT INFORMATION

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WARRANTY INFORMATION

Seller warrants that the product specified in this agreement are free of defects in materials and workmanship, and shall conform to the latest specifications published prior to Buyer's acceptance of the agreement for a period of one year (effective August 1, 2007).

Product specifications as defined supersede previous specifications and are complete. Any parameter that is not specifically defined in the specifications is expressly excluded from the warranty. This warranty does not apply to any product which have been subject to misuse, accident, alteration, or if the unit has been serviced by anyone other than an authorized representative of Seller.

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To maintain your warranty and to avoid creating hazards, only qualified personnel should perform authorized modifications to Two Technologies' products. Two Technologies cannot assume responsibility for any condition affecting the proper operation of this equipment that may result from unauthorized modifications.

PRODUCT RETURNS

If, after inspection, you note any product damage or discrepancies, please contact us promptly within five days of receipt. If the exterior of the package shows obvious signs of damage, please contact your carrier directly.

All items returned to Two Technologies require a Return Material Authorization number (RMA). Please contact Two Technologies' Service department to request an RMA number.

REGULATORY NOTICES

FCC PART 15 CLASS A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID: RYJJETXL
Two Technologies Incorporated
419 Sargon Way, Horsham, PA 19044
Phone: 215.441.5305

Also Contains:
FCC ID: RYJ-P500CF-1
IC: 6103A-P500CF1

To comply with FCC RF exposure compliance requirements during use, the antenna(s) used for transmitters in this device must provide a separation distance of at least 20cm from all persons (excluding hands/wrists/feet/ankles) and must not be co-located or operating in conjunction with any other antenna or transmitter except for TX FCC ID: RYJ-P500CF-1.

FCC SECTION 15.21

Changes or modifications to this unit not expressly approved by Two Technologies may void the user's authority to operate the equipment¹.

WLAN COMPLIANCE

This device contains a Socket Communication, Inc. P500 radio, FCC ID: RYJ-P500CF-1, IC ID: 6103A - P500CF1 and complies with Part 15 of the FCC rules.

Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADIAN DEPARTMENT OF COMMUNICATIONS

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications

Le présent appareil numérique n'émet pas de bruits radioélectrique dépassant les limites applicables aux appareils numériques de la class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

INDUSTRY CANADA

Registration Number: 6103A-JETTXL

CENELEC (PENDING)



EMI Standards:

- EN 55022:1998 (CISPR22), Class A
- ETSI EN 300 330-2: 2001

EMC Standards:

- EN 55024: 1998
- ETSI EN 301489-1: 2002, 301489-3: 2002
- EN/IEC 61000-4-2, 61000-4-3, 61000-4-4

1. The plug-in Socket Communications Corp. Go Wi-Fi! P500 802.11g CF Compact Flash Card radio module is accessed by removing the battery and the 9 Phillips Head screws holding the two halves of the JETT case together.

WARNINGS

Changes or modifications to this unit not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.



ELECTROSTATIC DISCHARGE (ESD)

Electrostatic discharge (static electricity) can have unpredictable adverse effects on any electronic device. Although the design of this product incorporates extensive ESD-related precautions, ESD can still cause problems. It is good practice to discharge static by touching a grounded metal object before inserting cards or connecting devices.

La descarga electrostática (electricidad estática) puede tener efectos nocivos imprevisibles en cualquier dispositivo electrónico. Aunque el diseño de este producto incorpora precauciones ESD-relacionadas extensas, la lata de ESD todavía causa problemas. Es buena práctica descargar parásitos atmosféricos tocando un objeto puesto a tierra del metal antes de insertar tarjetas o de conectar los dispositivos.

La décharge électrostatique (l'électricité statique) peut avoir des effets nuisibles imprévisibles sur n'importe quel dispositif électronique. Bien que la conception de ce produit incorpore des précautions ESD-connexes étendues, le bidon d'ESD posent toujours des problèmes. Il est dans de bons habitudes de décharger la charge statique en touchant un objet au sol en métal avant d'insérer des cartes ou relier des dispositifs.

Elektrostatische Aufladung (statische Elektrizität, ESD) kann unvorhersehbare schädliche Auswirkungen auf jedes elektronische Gerät haben. Obgleich das Design dieses Produktes umfangreiche ESD-Schutzmassnahmen enthält, kann ESD dennoch Probleme verursachen. Vermeiden Sie statische Elektrizität, indem Sie einen geerdeten Metallgegenstand berühren bevor Sie Karten einsetzen oder andere Geräte anschliessen.



SERVICING INFORMATION

When servicing the unit, the plug (JETT•connect cable) is the disconnect device. Simply unplug the unit before servicing.

Al mantener la unidad, el enchufe (cable de JETT•connect) es el dispositivo de la desconexión. Desenchufe simplemente la unidad antes de mantener.

En entretenant l'unité, la prise (câble de JETT•connect) est le dispositif de débranchement. Débranchez simplement l'unité avant l'entretien.

Bei Arbeiten am Gerät ist zuerst das Verbindungskabel (JETT•connect Kabel) am Gerät abzustecken (falls vorhanden).



BATTERY REPLACEMENT

CAUTION! There is a risk of explosion if you replace the NiMH battery with an incorrect type. Only use the NiMH battery supplied with your unit or a replacement NiMH battery supplied, recommended, or approved by Two Technologies, Inc.

PRECAUCIÓN! Hay un riesgo de la explosión si usted substituye la batería de NiMH por un tipo incorrecto. Utilice solamente la batería de NiMH provista de su unidad o una batería de NiMH del reemplazo provista, recomendada, o aprobada por Two Technologies, Inc.

ATTENTION! Il y a un risque d'explosion si vous remplacez la batterie de NiMH avec un type incorrect. Utilisez seulement la batterie de NiMH fournie avec votre unité ou une batterie de NiMH de remplacement fournie, recommandée, ou approuvée par Two Technologies, Inc.

VORSICHT! Bei Verwendung von NiMH Akkus, die nicht durch Two Technologies, Inc. geliefert, empfohlen oder genehmigt wurden besteht Explosionsgefahr! Benutzen Sie daher nur solche NiMH Akkus, die mit dem Gerät geliefert wurden bzw. Ersatzakkus, die durch Two Technologies, Inc. geliefert, empfohlen oder genehmigt wurden.



BATTERY DISPOSAL

Dispose of batteries in a safe manner. The following are general guidelines for the safe use and disposal of NiMH batteries:

- Replace a defective NiMH battery immediately as it could damage the unit.
- Do not throw the NiMH battery in trash that is disposed of in landfills as it contains heavy metals. Recycle or dispose the NiMH battery of it as required by local ordinances or regulations.
- Do not disassemble, incinerate, short-circuit the NiMH battery or throw it into a fire. It can explode and cause severe personal injury.
- Excessive discharge damages a NiMH battery. Recharge the NiMH battery when your unit indicates low battery power.

Disponga de las baterías de una manera segura. Los siguientes son pautas generales para el uso seguro y la disposición de las baterías de NiMH:

- Sustituya una batería defectuosa de NiMH inmediatamente pues podría dañar la unidad.
- No lance la batería de NiMH en la basura que se dispone en terraplenes mientras que contiene los metales pesados. Recicle o disponga la batería de NiMH de ella según los requisitos de ordenanzas o de regulaciones locales.
- No desmonte, no incinere, no cortocircuitos la batería de NiMH ni láncela en un fuego. Puede estallar y causar daños corporales severos.
- La descarga excesiva daña una batería de NiMH. Recargue la batería de NiMH cuando su unidad indica energía de batería baja.

Débarrassez-vous des batteries d'une façon sûre. Ce qui suit sont les orientations à l'utilisation sûre et à la disposition des batteries de NiMH:

- Remplacez une batterie défectueuse de NiMH immédiatement car elle pourrait endommager l'unité.
- Ne jetez pas la batterie de NiMH dans le détritux qui est débarrassé en remblais pendant qu'il contient les métaux lourds. Réutilisez ou disposez la batterie de NiMH d'elle selon les exigences des ordonnances ou des règlements locaux.
- Ne démontez pas, n'incinerez pas, ne court-circuitiez pas la batterie de NiMH ou ne la jetez pas dans un feu. Il peut éclater et causer des blessures graves.
- La décharge excessive endommage une batterie de NiMH. Rechargez la batterie de NiMH quand votre unité indique la basse puissance de batterie.

Beseitigen Sie verbrauchte Akkus und Batterien sicher und umweltfreundlich.

Allgemeine Richtlinien für den sicheren Gebrauch und die Beseitigung der NiMH Akkus:

- Ersetzen Sie einen defekten NiMH Akku sofort, da dieser sonst das Gerät beschädigen könnte.
- Werfen Sie den NiMH Akku nicht in den Hausmüll/Restmüll, da er Schwermetalle enthält. Geben Sie den NiMH Akku bei einer geeigneten Sammelstelle ab.
- Der NiMH Akku darf nicht kurzgeschlossen oder zerlegt werden. Er darf auch nicht Feuer oder grosser Hitze ausgesetzt werden, da in allen diesen Fällen der Akku explodieren könnte und dadurch Personen verletzt werden können.
- Tiefes Entladen beschädigt einen NiMH Akku. Laden Sie den NiMH Akku neu, sobald das Gerät niedrige Batterieleistung anzeigt.

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CHAPTER 1



OVERVIEW

ABOUT THIS MANUAL

This manual describes the standard features and operation of the JETT•XL. Unless otherwise stated, the operational characteristics described herein correspond to factory default configurations and settings as shipped from Two Technologies. Wherever used herein, the term “JETT” applies to all JETT•XL models (except as noted).

It is beyond the scope of this manual to provide operating system tutorials or information about commercial or customized JETT application programs and connected equipment. This information should be available in the manuals that accompany those products.

RELATED DOCUMENTS

- JETT•XL Integration Guide
- JETT Wi-Fi Companion Users Guide
- JETT•XL/eye Bluetooth Users Guide
- JETT•pack Technical Reference Guide
- JETT•wave pack Integration Guide
- JETT•FUEL User's Guide
- JETT Latching Mount User's Guide
- JETT•hangar Quad Cradle User's Guide
- JETT•hangar Single Cradle User's Guide
- Sync Commander User's Guide

ABOUT TWO TECHNOLOGIES

Two Technologies has been producing rugged hand held/panel mount terminals and computers since 1987. By implementing state of the art design and manufacturing techniques, we revolutionized hand held terminals and computers inside and out. Today, Two Technologies offers over a dozen cost-effective solutions serving virtually every market worldwide.

ABOUT THE JETT•XL

With its modern, ergonomic appearance and design, the JETT•XL is the most recent addition to Two Technologies' series of rugged hand held computers for industrial and commercial use. Its quick mount connector system allows easy insertion and removal in cradle or vehicle mounts.

The JETT•XL comes standard with the Windows CE 5.0 operating system and an Intel PXA270 XScale processor that operates up to 624 MHz. It also has configuration options for, Bluetooth, WLAN and serial communication (RS-232, RS-485, RS-422 and USB). WWAN GSM/GPRS are also optionally available

When you add the JETT•PACK to the JETT•XL, you can integrate RFID, bar-code scanners, GPRS/GSM devices, wireless radios and imagers.

JETT•XL FEATURES

OPERATING SYSTEM

The JETT•XL uses Windows CE 5.0 as its operating system. You can develop applications quickly and easily using the latest development tools and network connectivity from Microsoft, such as eMbedded Visual C++ 4.0, Visual Studio .NET 2003, Visual Studio 2005 and ActiveSync.

RECHARGEABLE BATTERY PACK

The JETT•XL comes with a rechargeable Nickel Metal Hydride (NiMH) battery pack that can provide up to six hours of operating time on a full charge (depending on power management and use) .

The NiMH technology used in the JETT•XL has exceptional charge life without the "charge memory" characteristic of conventional nickel cadmium batteries. Partially discharged batteries or extended periods with the charger left connected will not adversely affect battery life or performance. The JETT•XL can also run on six AA Alkaline batteries.

PROCESSOR

The JETT•XL utilizes an Intel PXA270 processor designed specifically for high-performance, low power, portable, handheld devices. It incorporates Intel XScale technology with on-the-fly voltage, frequency scaling and sophisticated power management. It also complies with the ARM Architecture V5TE instruction set

MEMORY AND MASS STORAGE

The JETT•XL comes standard with 128MB of SDRAM (approximately 30MB used for the operating system) and 512MB of internal compact flash memory. An additional 256 MB of SDRAM is optionally available. Internal compact flash memory is optionally expandable to 8GB+.

For removable data storage or I/O cards, the JETT•XL is equipped with a Compact Flash (CF) slot.

DISPLAYS

The JETT•XL features a supertwist nematic liquid crystal 320 x 240 QVGA-TFT color sunlight readable display with touch screen and LED backlight.

KEYPADS

Keypad configurations for the JETT•XL include 15-key, 30-key, 45-key and 52-key elastomeric keypads and a 45-key membrane keypad. All standard keypad configurations have an option for LED backlighting.

INDICATORS

The JETT•XL has five programmable LED indicators that can provide a number of useful functions including the state of keypad modifier keys. An additional LED indicates the charge and low battery statuses.

CONFIGURATION OPTIONS

The JETT•XL comes standard with one JETT•connect serial port with choice of full RS-232 or a choice of two of the following: short RS-232 (2), short RS-422, short RS-485 or USB. A modular serial port with a choice of short RS-232, USB or Charge Jack is optionally available. The JETT•XL also includes configuration options for USB (1.1), Wireless LAN (802.11b) and Bluetooth (1.1)

DURABILITY

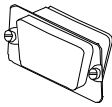
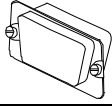
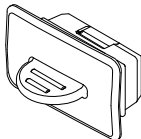
The case is made of General Electric Xenoy, one of the most durable chemical resistant materials available today.

INGRESS PROTECTION

The JETT•XL is completely dust-tight and can withstand exposure to jets of water and has an IP (Ingress Protection) rating of 65 as defined by IEC standard 529.

Although not required to maintain an IP65 rating, Two Technologies offers connector covers that help prevent *electrolysis* (corrosion that occurs due to a chemical reaction between water and a connector that conducts electricity). For maximum protection, you should replace each plug every six months. Please note, that the product warranty does not cover JETTs that fail due to electrolysis.

Table 1-1: Connector Covers

<i>Illustration</i>	<i>Part Number</i>	<i>Description</i>
	14555	DE-9 Male Metal Plug
	14556	DE-9 Female Metal Plug
	14489	Power Plug
	14492	JETT•connect Plug

Note: Illustrations are representative and not to scale.

CHAPTER 2



COMPONENTS AND INDICATORS

FRONT COMPONENTS

This section describes the components found on the front of the JETT.

Figure 2-1: Front Components

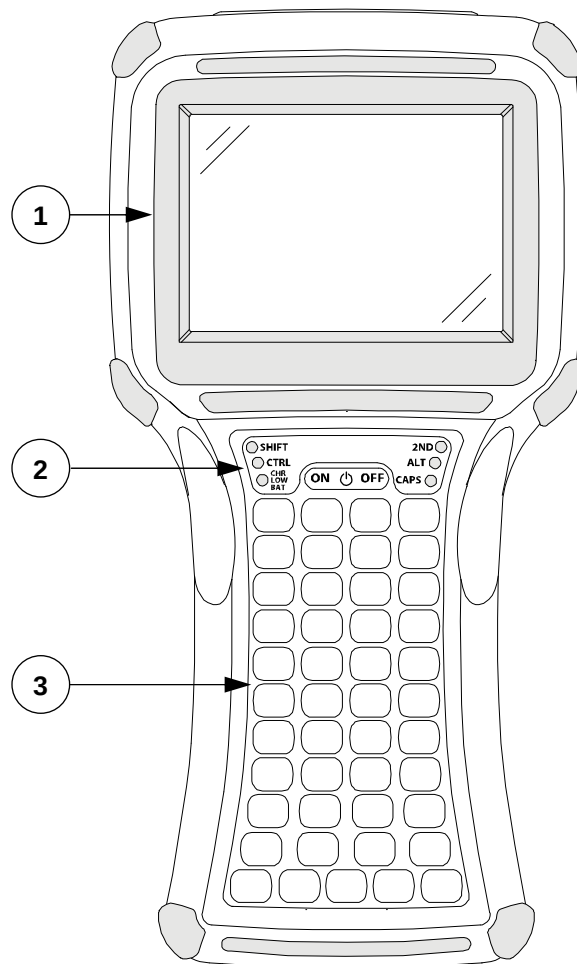


Table 2-1: Front Components and Indicators

Item	Component	Description
1	Display	Supertwist nematic liquid crystal display with touch screen
2	Front Panel	Contains the On/Off switch and modifier keys indicators (see Figure 2-2)
3	Keypad	45-key keypad shown (other keypads are also available, see Figure 3-9)

FRONT PANEL

This section describes the components found on the font panel.

Figure 2-2: Front Panel Components

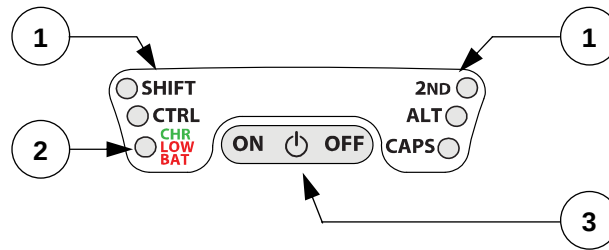


Table 2-2: Front Components and Indicators

Item	Component	Description
1	Modifier LEDs	Indicates use of the SHIFT, CTRL, 2ND ALT and CAPS modifier keys
2	Battery LED	Lights red to indicate a low battery or green a charging battery
3	On/Off Switch	Controls the Power, Suspend and Resume operations

INTERFACE CONNECTIONS

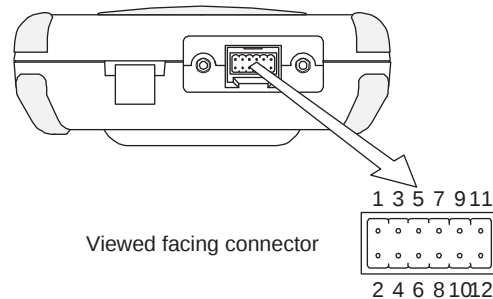
This section describes the interface connectors found on the bottom of the JETT.

Note: You can find Information regarding USB cables and connections in the JETT•XL USB supplement

JETT•CONNECT SYSTEM

The JETT•connect system is a set of rugged interface and cable connectors especially designed for industrial environments. It features positive connector retention without any hardware restraints for quick connect/disconnect operations and a contact design that prevents failure due to pin fatigue and cable stress after repeated use.

Figure 2-3: JETT•connect Interface Connector



RS-232 Interface Pin-Outs with 11-18VDC Input		RS-232 Interface Pin-Outs with 5VDC Output	
Pin 1 = X1	Pin 7 = DSR	Pin 1 = Tied to Pin 10	Pin 7 = DSR
Pin 2 = Ground	Pin 8 = RTS	Pin 2 = Tied to Pin 11	Pin 8 = RTS
Pin 3 = RI	Pin 9 = DCD	Pin 3 = RI	Pin 9 = DCD
Pin 4 = CTS	Pin 10 = 11-18VDC Input	Pin 4 = CTS	Pin 10 = 5VDC Output $\pm 10\%$
Pin 5 = DTR	Pin 11 = Shield	Pin 5 = DTR	Pin 11 = Ground
Pin 6 = TXD	Pin 12 = RXD	Pin 6 = TXD	Pin 12 = RXD

Note: Unless specified at time of order, the standard configuration for Pin 10 of the JETT•connect is 11-18VDC Input

USING THE 5VDC OUTPUT LINE TO POWER EXTERNAL DEVICES

The JETT supplies only one +5 VDC line. The +5 volts supplied from the JETT•connect is the same line supplied for JETT•pack integration. The +5 VDC line to the JETT•pack does not have the charging protection components so output voltage will be higher by approximately 0.3V to 0.4V.

The following table shows the typical voltage versus current values when using the 5VDC output line to power external devices

Table 2-3: 5VDC Typical Output Line Voltage versus Current Values

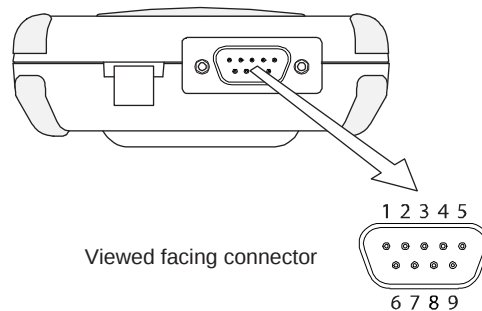
Load	Current	Voltage Out
50 Ohms	0.086 Amps	4.59 Volts
30 Ohms	0.14 Amps	4.54 Volts
25 Ohms	0.23 Amps	4.43 Volts
15 Ohms	0.3 Amps	4.37 Volts
12.5 Ohms	0.35 Amps	4.34 Volts
11 Ohms	0.4 Amps	4.29 Volts
8.5 Ohms	0.5 Amps	4.21 Volts

Note: Verify your intended use and current/draw with a properly configured JETT over your expected environmental conditions prior to product deployment.

DE-9 CONNECTORS

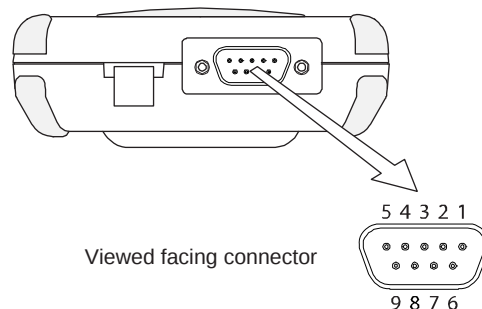
The DE-9 connectors emulate standard serial pin-out connections, and allow you to connect the JETT to most desktop PCs using a standard null modem cable.

Figure 2-4: DE-9 Male Interface Connector



RS-232 Interface Pin-Outs	
Pin 1 = DCD	Pin 6 = DSR
Pin 2 = RXD	Pin 7 = RTS
Pin 3 = TXD	Pin 8 = CTS
Pin 4 = DTR	Pin 9 = 11-18VDC Input
Pin 5 = Ground	

Figure 2-5: DE-9 Female Interface Connector

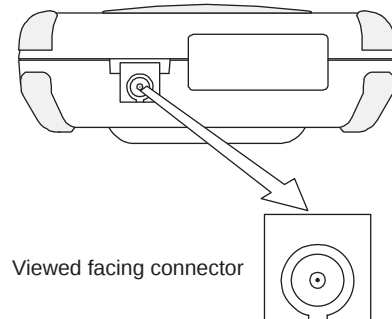


RS-232 Interface Pin-Outs	
Pin 1 = DTR	Pin 6 = DTR
Pin 2 = TXD	Pin 7 = CTS
Pin 3 = RXD	Pin 8 = RTS
Pin 4 = DSR/DCD	Pin 9 = 11-18VDC Input
Pin 5 = Ground	

POWER JACK

The optional power jack found on the bottom of the JETT enables you to connect an 11-18 VDC Input power supply battery charger, such as Two Technologies #14508. Use of other power supplies unless approved by Two Technologies may cause damage to the unit and void the warranty.

Figure 2-6: Power Jack



COMPACT FLASH SLOT COVER

The standard compact flash slot cover located on the top of the unit provides access to the compact flash slot that stores memory and device cards. In addition to the standard cover, a modified cover which has a machined opening that allows you to easily insert and remove devices cards that exceed 1.437 inches in height, is also available.

Two phillips-head screws+ (2-56 x 5/16") secure the cover to the top of the JETT. To insert device or memory cards into the compact flash slot, you must first remove these screws using a phillips # 0 non-magnetic tip screwdriver, which you can purchase from Two Technologies (Part Number 14673). You can also purchase additional screws from Two Technologies (Part Number 12624).

For information about inserting and removing memory and device cards, see [Using the Compact Flash Slot](#).

Figure 2-7: Standard Compact Flash Slot Cover, Closed

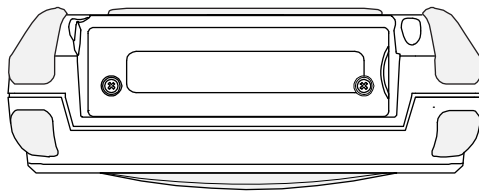


Figure 2-8: Standard Compact Flash Slot Cover, Opened

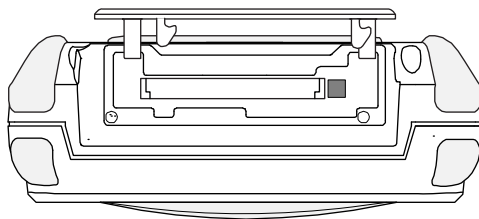


Figure 2-9: Modified Compact Flash Slot Cover for Long Device Cards



THE JETT•HATCH

By using the JETT•HATCH (available at time of order), you can thoroughly seal the JETT and maintain a total IP65 solution when using CF-based peripherals installed in the User CF slot . The JETT•HATCH comes in two sizes (see Figure A-2 for dimensions):

- **Low Profile**—accommodates standard CF-based peripherals, such as WLAN and Bluetooth CF cards
- **High Profile**—accommodates larger CF-based peripherals, such as GPS, and GPRS CF cards

Figure 2-10: Low Profile JETT•HATCH

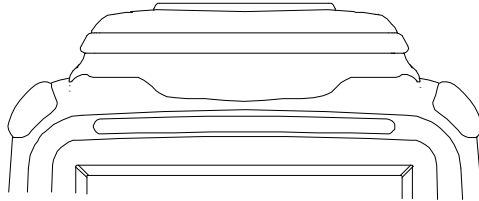
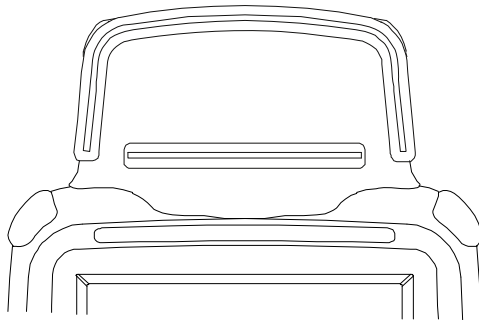


Figure 2-11: High Profile JETT•HATCH



POWER SUPPLIES, CABLES AND ADAPTERS

Two Technologies can provide the following optional power supplies, cable and adapters based on communication and power requirements. For cable signal and pin assignments, see [Appendix B: Signal and Pin Assignments](#).

Table 2-4: Available Power Supplies, Cables and Adapters

<i>Two Technologies Part #</i>	<i>Part Description</i>
14508	11-18VDC Power Supply (North America Only) ¹
91708	Black, 15-Foot JETT•connect Cable (DE-9 Male)
91709	Black, 15-Foot JETT•connect Cable (DE-9 Female)
14375	Black, 15-Foot Null Modem Cable (DE9 Female to DE9 Female)
14987	USB Cable, Type A to Mini B
14988	USB Cable, Mini A to Type B
14989	USB Cable, Mini A to Mini B
15094	USB Cable, Mini A to Type A (Female)

1. Use of other power supplies unless approved by Two Technologies may cause damage to the unit and void the warranty.

CHAPTER 3



OPERATION

THE POWER/SUSPEND SWITCH

The On/Off switch is located above the keypad. Its function depends on the state of the JETT at the time the switch is pressed and on the length of time that the switch is depressed. Operations that the On/Off switch can initiate are:

- Power On
- Power Off
- Suspend

Figure 3-1: On/Off Switch

**POWER ON**

To power on the JETT:

1. Press and hold the On/Off switch for one second. The unit should turn on and begin displaying the boot-up process. For example:

Where x.x.x is the version number

2. After approximately 15 seconds, the Windows CE 5.0 desktop should appear. If the unit does not power up or you cannot select any items from the desktop, refer to the "Troubleshooting" chapter for help.

**POWER OFF**

To turn off the JETT, press and hold the On/Off switch for approximately eight seconds. This action will also terminate running applications and cease serial port operations).

SUSPEND MODE

Suspend mode allows you to suspend, but not terminate active applications. In this mode, the display will turn off and the JETT will cease serial port operations. For battery-powered units, Suspend mode also conserves battery power. To place the unit in Suspend mode, press and release the On/Off switch. To take the JETT out of Suspend mode, press and release the On/Off switch again. The display will turn on and the JETT will resume running any suspended application, but you must restart any serial port operations. If you attempt to resume immediately after suspending the JETT or vice versa, the unit will delay three seconds before resuming or suspending.

USING THE RECHARGEABLE BATTERY

The JETT•ce comes with a rechargeable Nickel Metal Hydride (NiMH) battery pack that can provide up to six hours of operating time on a full charge (depending on power management settings and peripheral use).

You will need to charge the Nickel Metal Hydride rechargeable battery pack a minimum of three hours prior to first use. Please note that the battery pack will not attain maximum capacity until it has been charged and discharged approximately four times. As a result, you may experience shorter than expected operating time on the first few uses of the product.

NiMH batteries are an extremely stable and dependable source of electrical energy, but can be sensitive to extreme temperature. If you charge the battery pack in extreme hot or cold, it will not attain a full charge, and as a result will exhibit decreased useable time until it recharging again. As a precaution against overheating, the JETT has built-in temperature sensors that will suspend the charging process if the battery becomes too warm.

Because the battery pack is an electrical device, you should not expose it to moisture or wet environments. If the battery becomes wet, wipe it dry and then allow it to dry thoroughly for several hours before attempting to use or charge it.

Do not leave the battery pack in a fully discharged state for extended periods. This condition may cause one or more of the cells within the battery pack to fail. When this occurs and the battery pack is subsequently recharged, the failed cell will reduce the total voltage capacity of the battery pack, thus making the battery appear to discharge faster.

CHARGE/LOW BATTERY INDICATOR

When using the NiMH battery pack, the CHARGE/LOW BAT LED will indicate the current battery status as shown in the table below.

Table 3-1: Charge \Low Battery Indicator Functions

<i>Function</i>	<i>Description</i>
CHARGE	With the power supply connected, the CHARGE/LOW BAT LED will indicate one of following conditions: ▪ High Power Charge – the LED will turn solid green until the battery reaches 80% capacity of its charge capacity ▪ Trickle Charge – the LED will blink green about four times a second when the battery reaches 80% capacity of its charge capacity
LOW BAT	With the power supply disconnected, the CHARGE/LOW BAT LED will indicate one of following conditions: ▪ Batteries are low – the LED will blink red once per second when there is approximately 30 minutes of power remaining ▪ Batteries are very low – the LED will turn solid red when there is approximately 10 minutes of power is remaining

CHARGING THE UNIT

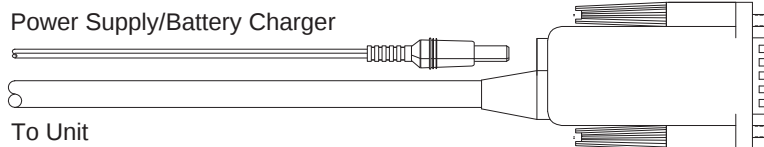
The nickel metal hydride battery technology used in the JETT has exceptional charge life without the “charge memory” characteristic of conventional nickel cadmium batteries. Partially discharged batteries or extended periods with the charger left connected will not adversely affect battery life or performance.

Note: Because the internal battery charger senses several conditions, including temperature, you should charge the unit away from any known or potential heat sources. Units exposed to temperatures in excess of 110 degrees Fahrenheit during the charge cycle may experience incomplete charging and reduced operating time per charge.

To charge the NiMH battery pack:

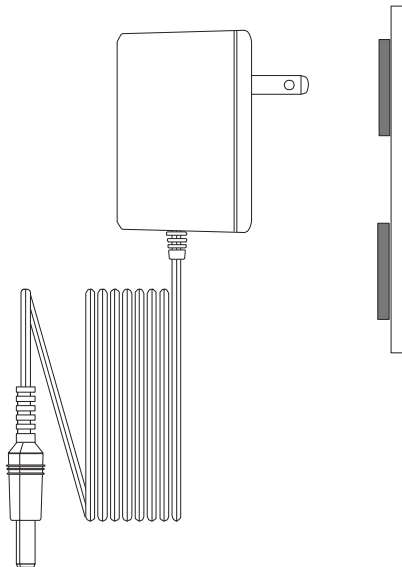
1. Depending on your configuration, plug the power jack of the battery charger/power supply into the corresponding cables connector and/or adaptors as shown below.

Figure 3-2: Using 91708/ 91709, and 14375 Cables



2. Plug the interface cable into the connector on the bottom of the JETT. If your unit has a power jack receptacle on the bottom of your JETT, just plug the power jack into that receptacle.
3. Plug the battery charger/power supply into a power outlet. The Charge LED should turn on, indicating that the batteries are charging (see Table 3-1).

Figure 3-3: Power Supply



4. Once the battery is fully charged (approximately four hours), you can disconnect the AC power supply and run the JETT exclusively on battery power.

REPLACING BATTERIES/BATTERY PACK

CAUTION! There is a risk of explosion if you replace the NiMH battery with an incorrect type. Only use a NiMH battery supplied with your unit or a replacement NiMH battery supplied, recommended, or approved by Two Technologies, Inc.

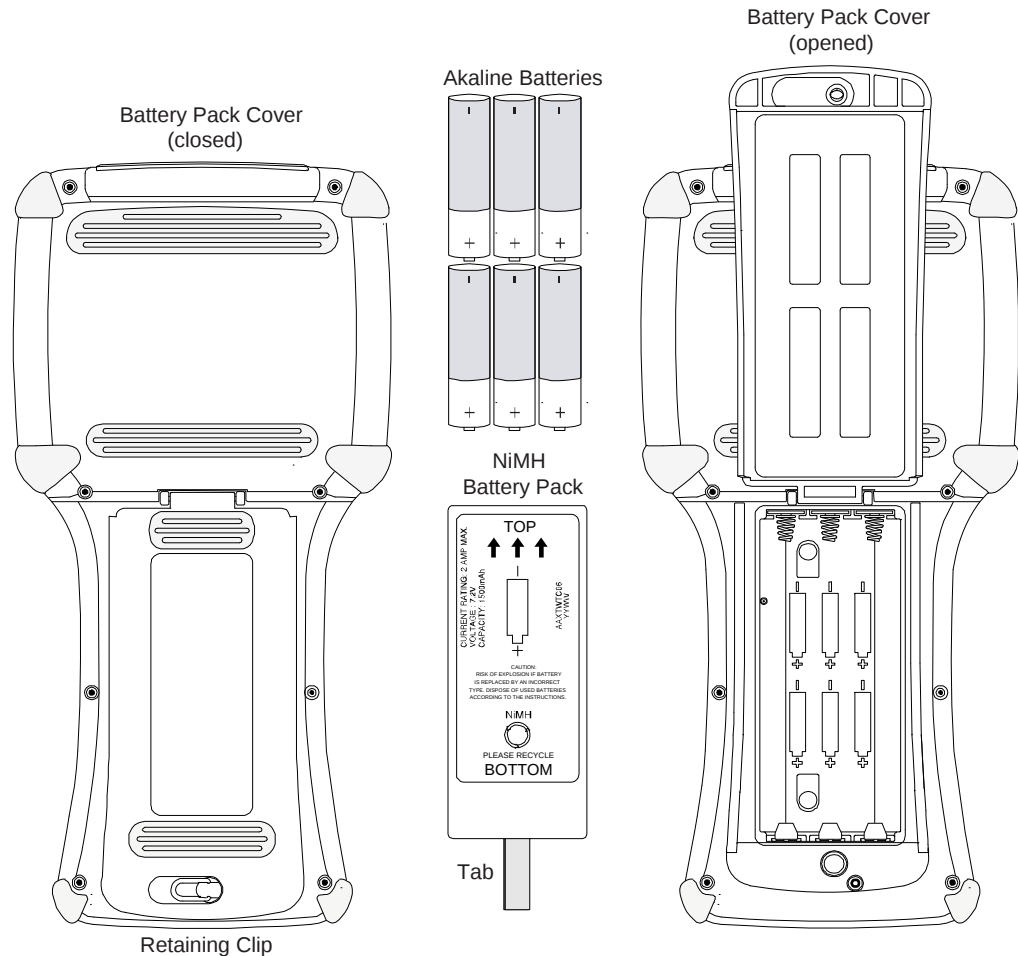
When using alkaline batteries, replace all alkaline batteries in the JETT at the same time. Do not mix old and new batteries, mix different types or brands of batteries, or dispose of the batteries in a fire. These actions can cause battery rupture or leakage that result in personal injury or property damage.

Remove the batteries from the JETT when not using the JETT for extended periods. Store the batteries in a cool, dry location at normal room temperature.

To replace the rechargeable battery pack or change AA batteries:

1. Turn the power off. With the unit face down, pull the battery cover retaining clip up from its recessed slot and turn the clip in a counter clockwise motion (see Figure 3-5).
2. Lift the cover up and remove the batteries/battery pack.
3. If the unit contains a NIMH battery pack, use the tab to lift up on the battery pack and then out.
4. Close the battery cover and turn the battery cover retaining clip clockwise to lock the cover.

Figure 3-4: Changing Batteries



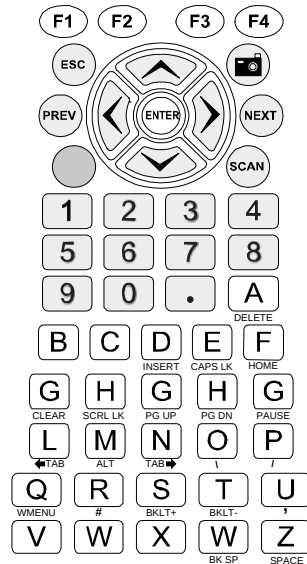
DATA ENTRY

KEYPADS

52-KEY KEYPADS

This joystick style keypad with bezel nomenclature features easy screen navigation and alphanumeric keypad entry and four programmable function keys. Users can also access navigation keys and backlight control via the SHIFT key.

Figure 3-5: Standard 52-Key Keypad



45-KEY KEYPADS

In order to provide the functionality of a full-sized keyboard with only 45 keys, the JETT keypad makes use of modifier keys. Units configured with the standard 45-key keypad typically utilize five LED indicators (located above the On/Off switch) to indicate the active state of keypad modifier keys. Units with 45-key keypads also have keypad functions to adjust the contrast and backlight.

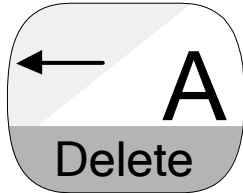
Figure 3-6: Standard 45-Key Keypad



45-KEY KEYPAD MODIFIER KEYS

The following modifier keys (located on the bottom of a standard keypad) enable you to access the various functions that can appear on a key. Modifier keys take effect when first pressed and typically remain in effect until you press another key, unless its another modifier key (see [Table 3-2](#)). Optionally equipped units can use LEDs to indicate the selection of a modifier key. [Figure 3-8](#) provides examples.

Figure 3-7: 45-Key Keypad Modifier Key



- **CTRL and ALT Keys**—operate in the same manner as on conventional PCs, except that by default they have a one-time locking action to facilitate one-handed operation.

SHIFT Key—unlike conventional PC keyboards, the SHIFT key enables you to access symbols, punctuation marks and navigation arrows rather than shift alphabetic keys to uppercase. By default, the SHIFT key has a one-time action. However, you can press the Shift key twice and lock the keypad into Shift mode, where each subsequent key press will only access characters that appear in the upper left of a key. Pressing the Shift key a third time will release Shift mode.

On standard JETT 45-key keypads, the functions and characters accessed via the SHIFT key appear in the upper left of a key (shaded in light gray in [Figure 3-8](#)).

5. **2ND Key**—shifts the numeric keys to corresponding function keys (1 = F1, 2 = F2, etc.) that are found on conventional PC keyboards. It also shifts other keys for punctuation, non-printing characters (such as Delete and TAB), and PC key definitions (such as Page Up, Page Down, Home, Insert and Caps Lock).

On standard JETT 45-key keypads, the functions and characters accessed via the 2nd key appear at the bottom of a key, (shaded in dark gray in [Figure 3-8](#)).

Like the Shift key, the 2ND key has a default one-time action and a locking mode (i.e., pressing the 2ND key twice will lock the keypad into 2ND mode).

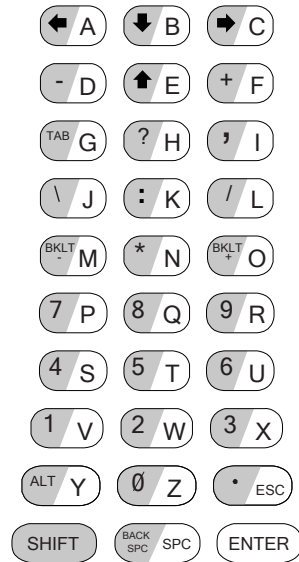
Table 3-2: Modifier Key Actions

Key Presses	Result
A	Lowercase "a"
Shift & A	Move cursor left one position
2ND & A	Delete Character
2ND & Caps Lock	Uppercase "A"

30-KEY KEYPAD

Units with a 30-key keypad provide a full complement of alphabetical characters. Users can access numeric characters, punctuation characters, navigation keys and backlight control via the SHIFT key.

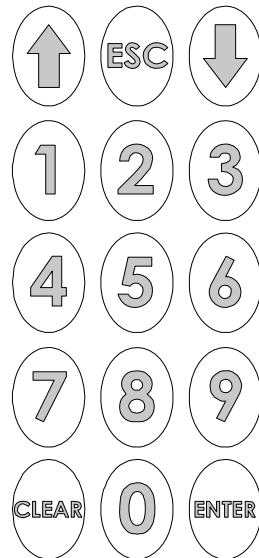
Figure 3-8: Standard 30-Key Keypad



15-KEY KEYPAD

Typically, units shipped with a 15-key keypad have custom keyboard layouts geared toward specific applications that must be loaded onto the unit. To provide you a method of navigating and using Windows CE 5.0 until you configure and map your keypad for your application, Two Technologies provides a template that shows how to access the default functions (see figure below).

Figure 3-9: Standard 15-Key Keypad



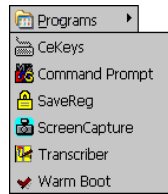
KEY REPEAT

By default, the JETT does not automatically repeat a key stroke when you hold down a key. However, you can enable the key repeat function by configuring the Keyboard setting in the Control Panel.

CE KEYBOARD

In addition to entering data through the keypad, you can also enter data by using the CE Keyboard. This utility displays a keyboard on the screen to allow data entry via the Command Line or into applications where “text accessibility” control has focus (i.e., text or combo box).

To use the CE Keyboard, select **Programs > Tools> CeKeys** from the **Start** menu.



To minimize the keyboard, click the keyboard icon that appears in the system tray

Figure 3-10: CE Keyboard



TRANSCRIBER

Microsoft Transcriber is a natural handwriting recognition software program that interprets pen movement across the screen as handwriting (cursive, print or mixed) input. For more information, please refer to Microsoft Transcriber Help on the JETT.

To run Microsoft Transcriber, select **Programs > Tools> Transcriber** from the **Start** menu.

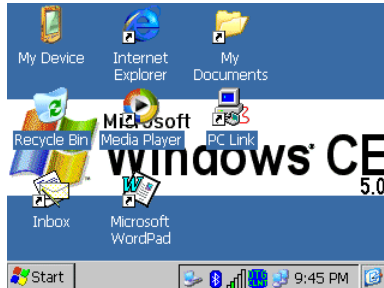
Figure 3-11: Transcriber



THE WINDOWS CE 5.0 DESKTOP

This section provides a brief overview of the functions that appear on the Windows CE 5.0 desktop. For information on how to change desktop settings, refer to Windows CE help (Start > Help).

Figure 3-12: Windows CE 5.0 Desktop



WINDOWS CE 5.0 DESKTOP FUNCTIONS

You can access the following applications, functions and utilities from the Windows CE 5.0 desktop:

Table 3-3: Windows CE 5.0 Desktop Functions

Icon	Function	Description
	Recycle Bin	Use the Recycle Bin to restore deleted files or empty the bin to create more disk space.
	My Device	Use My Computer to navigate and view the folders and files stored on the JETT.
	Inbox	Use the Inbox to send and receive e-mail by connecting to a POP3 or IMAP4 server.
	My Documents	The default storage location for documents, graphics, and other files.
	Microsoft WordPad	Use WordPad to create or edit text files that contain formatting or graphics.
	Internet Explorer	Use Internet Explorer to view Web pages. You will need a modem or Ethernet card to connect to an Internet service provider (ISP) or network.
	PC Link	Use PC Link to make an ActiveSync, Bluetooth or other type of connection to another device

THE TASKBAR

The taskbar at the bottom of the JETT desktop displays the Start button, buttons of currently running applications, the Status Area and the Show Desktop icon.

Tap the Start button to display the Start menu (see below for details). For each open application, a button appears on the taskbar. Simply tap the button to activate the application.

The status area appears on the right and by default displays small icons for the input panel, current time, power status and network connections. Tap an icon to activate the related program.

Tapping the Show Desktop icon minimizes active applications and redisplay the desktop. Tapping the Keyboard icon displays the Input Panel menu for data entry.

Figure 3-13: Windows CE 5.0 Desktop Taskbar



POWER STATUS ICONS

The JETT will display power status icons (Table 3-4) in the taskbar status area (Figure 3-14) to indicate power use, charging status and low battery conditions.

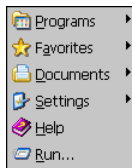
Table 3-4: Power Status Icons

Icon	Description
	Batteries are charging
	Batteries are low – approximately 30 minutes or less of use remaining (the CHARGE/LOW BAT LED will blink red once per second)
	Batteries are very low – approximately 10 minutes or less of use remaining (the CHARGE/LOW BAT LED will turn solid red)

THE START MENU

When you tap Start, the Start menu appears.

Figure 3-14: Start Menu



By tapping one of the menu's icons (and not the name), you can:

- Open programs that do not appear on the desktop
- View a list of web sites added to your Favorites List
- View recently accessed documents and images
- Access the Control Panel, establish connections, or configure the Taskbar and Start Menu
- View Help
- Start an application using the Run command

MISCELLANEOUS TOOLS

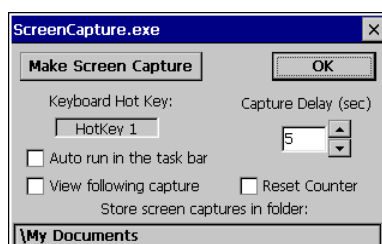
You can access the following utility programs from the Tools menu.

SCREEN CAPTURE

The Screen Capture program takes a picture of the screen and saves it as a bitmap file (.BMP) to a designated location. You can set up the program to run from the system tray, or by pressing a hot key.

To setup the Screen Capture program:

1. From the Start menu, select **Programs > Tools > Screen Capture**. The ScreenCapture.exe dialog box appears:

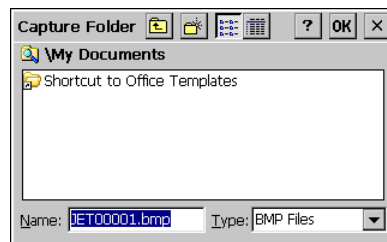


By default, the Screen Capture program is set to take a picture by pressing HotKey1 after a five-second delay.

2. To change the wait time before the Screen Capture program takes a picture, tapping the up or down scroll bars under **Capture Delay (sec)**. The default value is five seconds.
3. To change the **Keyboard Hot Key** assignment, you must access the Hot Key applet in the Control Panel. The default value is five HotKey1
4. To have the Screen Capture program take a picture when you tap its icon in the System Tray, check **Auto run in the task bar**.

Note: To deselect this option after making it active, tap and hold the icon until the Screen Capture program appears.

5. To view the picture immediately following the screen capture, check **View following capture**.
6. To change the default folder (My Document) where picture are stored, tap the button under **Store screen capture in folder**.



7. Select a new location and tap **OK**.
8. By default the Screen Capture program, automatically assigns a number to each screen capture. The numbering scheme starts at JET00000 and increment by one after each capture. To set this number back to JET00000, check **Reset the counter**.

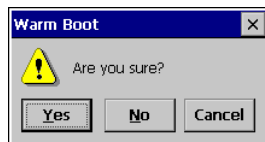
Note: Screen captures stored in folders other than the SystemCF folder will be lost if you remove power from the unit.

WARM BOOT

Occasionally, a program may encounter an error from which it cannot recover. In these cases, you can perform a warm boot, which will reinitialize the unit without affecting the contents store in virtual memory.

To perform a warm boot:

1. Select **Programs > Tools> Warm Boot**. The “Are you sure” prompt appears.



2. Tap **Yes** to warm boot the unit.

MANUALLY SAVING THE PERSISTENT REGISTRY

The JETT internal memory consists of DRAM and Flash. Typically, any changes made to the JETT including file creation are temporarily stored in the unit's DRAM. You must then copy the files from DRAM to internal flash memory or a removable compact flash card to store the information permanently.

Consequently, if you do not store the information to flash memory and the unit loses power, all information stored in DRAM will be lost. However, whenever you make changes that affect the registry, such as changing settings in the Control Panel or installing software, you can permanently store registry changes without writing to flash memory by using the Persistent Registry.

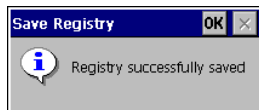
Note: The JETT will also store registry information every time you perform a suspend/resume operation.

To store registry information on the JETT permanently:

1. From the Start menu, select **Programs > Tools> SaveReg**.
2. The JETT will begin saving the registry.

Saving Registry, Standby..

3. After you successfully save the registry, a message box will appear:



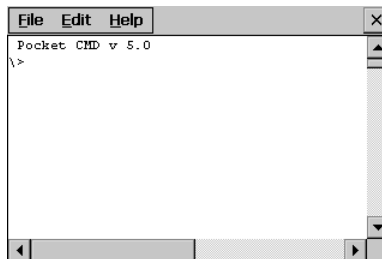
4. Tap **OK** to close the message box.

COMMAND PROMPT WINDOWS

The command prompt window allows you to execute limited MS-DOS command line arguments (e.g., CD SystemCF, Run TEST.BAT, etc.).

To open the Command Prompt window:

1. From the Start menu, select **Programs > Tools> Command Prompt**. The Command Prompt window opens:



2. You can then type in your commands. For a list of supported commands, type **Help** and press **Enter**.
3. To end the session, type **Exit** and press **Enter**.

SYSTEMCF FOLDER

The only folder that provides non-volatile (permanent) storage is the SystemCF folder. Information stored in other folders will be lost when you remove power from the JETT. You can however, have the JETT automatically copy files from the SystemCF to other folders when booting up.

USING THE COMPACT FLASH SLOT

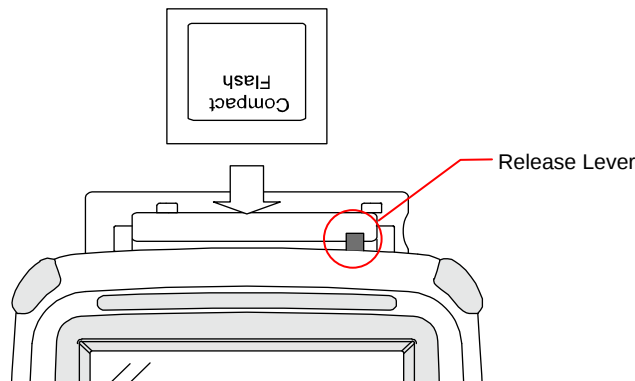
The Compact Flash Slot located on top of the JETT enables you utilize a variety of devices such as memory cards, barcode scanners, GPS cards and network cards.

If you intend to use a device card, it may also be necessary to install a driver. If so, make sure the card is Windows CE 5.0 compatible and you have the necessary drivers. If you are not sure, check with the card manufacturer before attempting to install the card.

To use the compact flash slot:

1. If needed, remove any screws from the cover to access the Compact Flash slot. Refer to the “[TCompact Flash Slot Cover](#)” section for information about cover and screw types.
2. With the front of the display facing you, push the compact flash slot cover to the left. The slot cover will automatically pop open. If the cover has a slot, you can skip this step.
3. Insert the compact flash/device card into the slot with the front of the display facing you and the top of the card pointed to the slot until it clicks and the release lever moves upward.

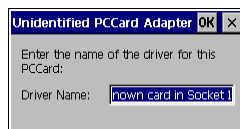
Figure 3-15: Using the Compact Flash Slot



4. Close the cover.
5. When inserting memory cards, a “UserCF” folder will appear when you open My Computer. You can then copy and paste the contents of UserCF to the other folders on the JETT.
6. When inserting device cards, the JETT will attempt to recognize the device. If it finds a driver for the device, the JETT will display a dialog box for that device. For example:

Error! Objects cannot be created from editing field codes.

7. If the JETT cannot find a driver for the device, it will display the following dialog box:



8. If the correct card type appears, you can enter the appropriate information in the dialog box and then tap **OK** to complete the installation.
9. To remove a card from a slot, simply push the card release lever down and remove the card.

CHAPTER 4



CONFIGURATION

THE CONTROL PANEL

The table below lists the available control panel functions on the JETT.

Table 4-1: Control Panel Functions

<i>Icon</i>	<i>Function</i>	<i>Description</i>
	Aux CF Card	This function enables you to enable/disable power to CF cards installed in the internal CF Card slot, which not user accessible.
	Aux Switch	For units with a second COM that supplies 5VDC output, use this function to set the default power state (On or Off), and test the connected devices.
	Backlight	Use this function to adjust the backlight setting for the following conditions: Line Active, Line Active Inactive, Battery Active and Battery Inactive.
	Battery Select	Select one of the following options to calibrate the power status icons for proper use: NIMH, AC Line or Alkaline.
	Beep Select	Use this function to change the frequency, volume and duration properties of the beep.
	Certificates	Use this function to import, view or remove certificates, which protect your personal information on the Internet, and protect your computer from unsafe software.
	CPU Speed	Use this function to determine the current CPU and cold boot-up speed. Allowable selections are 312 MHz and 624 MHz).
	Date/Time	Use this function to adjust the date, time and time zone.
	Dialing	Use this function to adjust the dialing location settings and dialing patterns when using a modem.
	Display	Use this function to adjust the backlight timeout, change the background image or change the desktop color scheme.
	Display Rotation	Use this function to rotate the screen 180 degrees (upside down).
	Hot Keys	Use this function to assign functionality to the unit's eight programmable keys.
	Internet Options	Use this function to set up connections, security settings and internet related functions.
	Keyboard	Use this function to change the repeat delay and repeat rate.
	Network and Dial-up Connections	Use this function to change network adapter settings and/or set up identification for remote networks.
	Owner	Use this function to enter the owner name, address, phone numbers, notes and network ID.

Icon	Function	Description
	Password	Use this function to enable password protection and set a password.
	PC Connection	Use this function to enable direct connection to a desktop computer
	Power	Use this function to: ▪ Check battery power ▪ Set device to turn off when idle ▪ Set up power schemes ▪ Check the power levels of your system devices
	Regional Settings	Use this function to change the appearance of region specific information, such as date, time and currency.
	Remove Programs	This function enables you to remove programs installed in RAM.
	Stylus	Use this function to recalibrate the touch screen and adjust the stylus double-tap rate.
	System	Use this function to view system information, change the RAM (Program/Storage memory) division, change the device name and change the device description.

POWER MANAGEMENT

Battery-powered units can utilize a rechargeable Nickel Metal Hydride (NiMH) battery pack that has an average operating time of six hours on a full charge with power management.

As with all battery-powered devices, the operating time is completely dependent on the environment, device usage and the number and type of power-drawing peripherals attached. The battery discharge rate in a full "Power Off" state is only slightly higher to the self-discharge rate of the battery itself.

Note: *Allowing the batteries to remain in a low or very low condition will cause the unit to enter Suspend mode. In either case, you should save your work and recharge the unit as soon as possible*

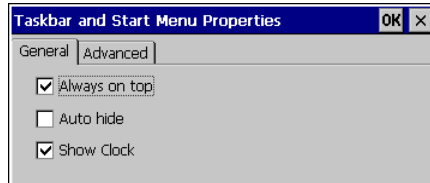
To lengthen the time between charges, you can perform the following actions:

- Use external power for PC Card operations whenever possible— some PC Cards as well as extended communication via the serial port, may require large amounts of power to operate, and can quickly drain the batteries.
- Limit the use of backlight— minimize backlight use when you are operating on battery power. You can adjust the backlight timeout level through the Display Settings in the Control Panel or on some units by using the keypad.
- Shorten Auto-suspend time— the JETT is automatically set to suspend operation to conserve battery power when you have not used the keyboard or the stylus after three minutes. You can increase the Auto-suspend time by changing the Power settings in the Control Panel.

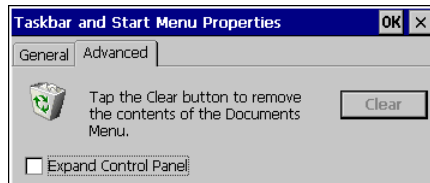
TASKBAR AND START MENU SETTINGS

To change the Taskbar and Start Menu settings:

1. Select **Start > Settings> Taskbar & Start Menu**. The Taskbar and Start Menu Properties dialog box opens:
2. Select the **General** tab:



3. Check **Always on Top** to ensure that the taskbar is always visible, even when a program appears in a full window (maximized).
4. Check **Auto hide** to display the taskbar just when you point to the taskbar area.
5. Check **Show Clock** to display the time of day in the taskbar.
6. Select the **Advanced** tab:



7. Tap the **Clear** button to remove the contents of the documents menu.
8. Check the **Expand Control Panel** box to display the contents of the Control Panel as items on the Settings | Control Panel menu.
9. Tap **OK** to save the settings and exit the menu.

CHAPTER 5



CONNECTIONS

CREATING AN ACTIVESYNC CONNECTION

ActiveSync is a desktop utility program (available as a free download from Microsoft) that allows you to synchronize certain types of information between a PC and the JETT. You can also use ActiveSync to transfer files and install programs on the JETT.

Notes:

The following procedures describe how to make an ActiveSync connection using a serial interface cable. If your PC does not have a serial port, you will need to use a USB to serial port adapter

For information on how to make an ActiveSync connection using Bluetooth, WLAN or USB, refer to the appropriate manual.

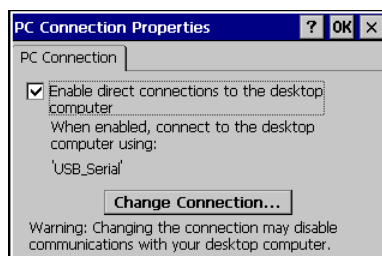
The procedures listed below document using ActiveSync 4.1. Some dialogs boxes will appear differently than previous versions. However, the basic procedure is the same.

ActiveSync 4.0 and above only supports Remote PC Link via Bluetooth. It does not support Remote PC Link (via Wi-Fi or LAN) due to enterprise customer feedback around security issues. If you must use Wi-Fi or LAN, use ActiveSync version 3.8 or below.

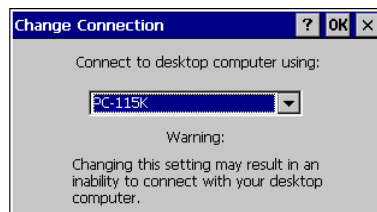
CONFIGURING THE JETT

To setup initial communication between the PC and the JETT, you must first configure the JETT with the correct communication setting.

1. On the JETT, tap **Settings> Control Panel > PC Connection**. The PC Connection Properties Dialog box appears.



2. Tap **Change Connection**. The Change Connection dialog box appears.



3. Select **PC-115** and tap **OK**. The PC Connection Properties Dialog box reappears.
4. Tap **OK** to exit.

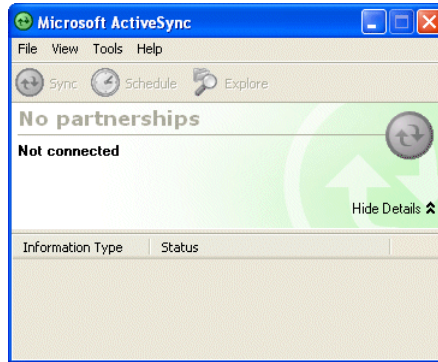
5. Close the Control Panel and return to the desktop.

CONFIGURING THE PC

After you configure the JETT, you must configure the PC before making an ActiveSync connection.

Note: If you are installing ActiveSync on the PC for the first time and the Get Connected wizard appears, click **Cancel**.

1. On the PC, start **ActiveSync**.



2. On the ActiveSync menu bar, select **File** and then **Connection Settings**. The Connection Settings dialog box opens.



3. If not selected, check the **Allow connection to one of the following** box, and assign the number of the available COM port (typically COM1).

Note: If you have to share a COM port with a device that has a different connectivity program, you will need to free the COM port from ActiveSync before using the COM port for the other device. The next time you want to connect a device to ActiveSync, you will need to assign the COM port back to ActiveSync.

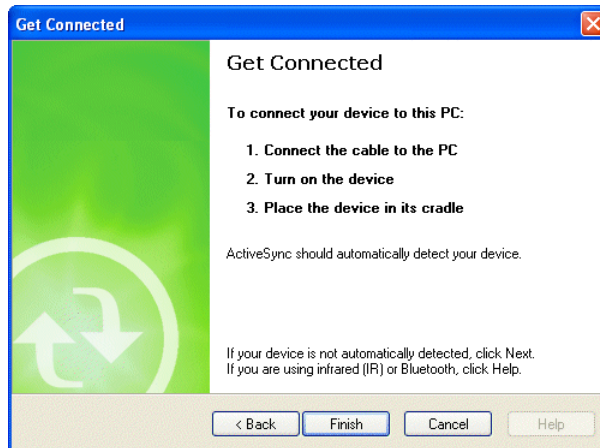
4. If needed, change how the PC should connect to when passing through ActiveSync (i.e., the JETT can use the computer's network connection as if it were its own to download files or browse the Internet). The default setting is **Automatic**.

Note: For additional security, disable network bridging on the PC (specifically, bridging to a Remote NDIS adapter) before connecting to the PC to pass through to the Internet or a network. Proceed to the next section. Do not close this dialog box.

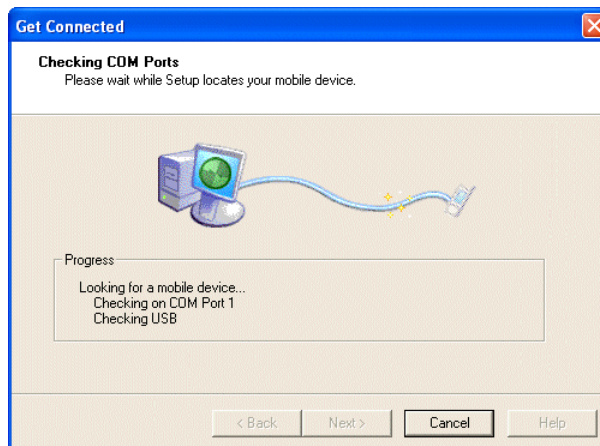
CREATING AN INITIAL ACTIVESYNC CONNECTION

To create an initial ActiveSync connection:

1. Connect one end of your interface cable to the serial (COM) port on your desktop computer. Connect the other end of the cable to the JETT.
2. In the Connection Settings dialog box, click **Connect**. The Get Connected wizard appears



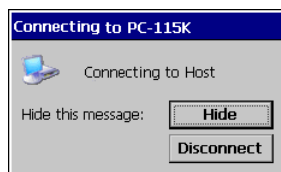
3. Click **Next**. ActiveSync will then attempt to establish a connection with the JETT (this process may take several seconds).



4. On the JETT desktop, tap **PC Link**.



5. The following message box appears:



6. When ActiveSync successfully establishes communications with the JETT, the New Partnership dialog box will appear on the PC.



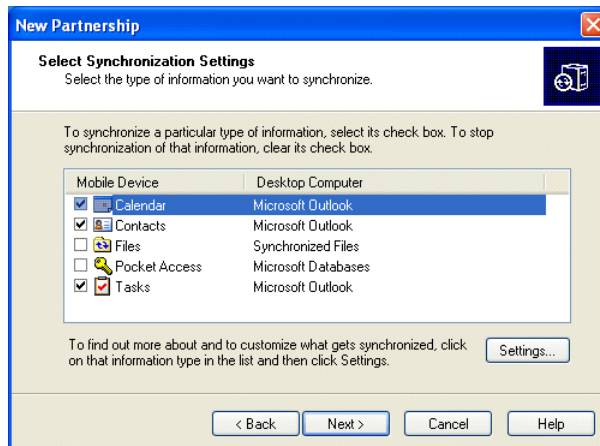
7. You can now choose to setup a partnership to synchronize files or connect as a “guest.” Refer to the following sections to further instructions.

CREATING A PARTNERSHIP

When starting ActiveSync for the first time, you have the option to create a partnership that allows you to synchronize selected items between the JETT and the PC.

To create a partnership during your initial setup:

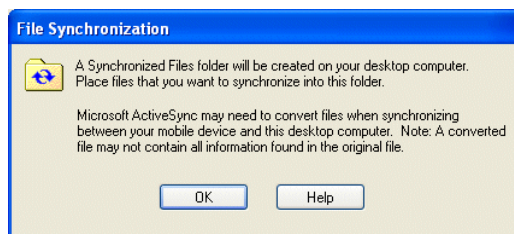
1. Select **Yes** in the New Partnership wizard and then click **Next**. ActiveSync will then prompt you to select the type of information you want to synchronize.



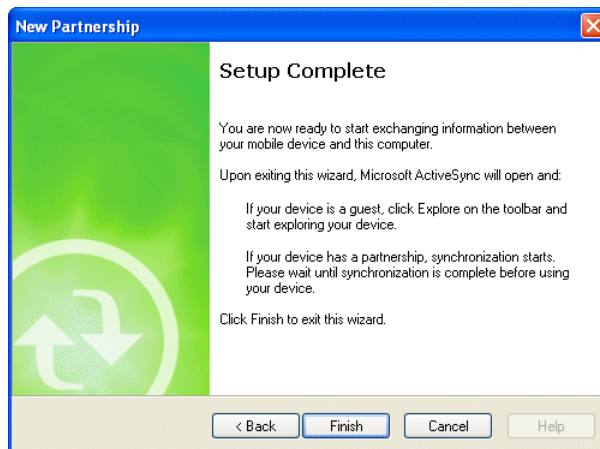
2. Check or clear the boxes that pertain to the type of information you want to synchronize.

Note: the JETT does not support Pocket Access or the synchronization of Pocket Access files

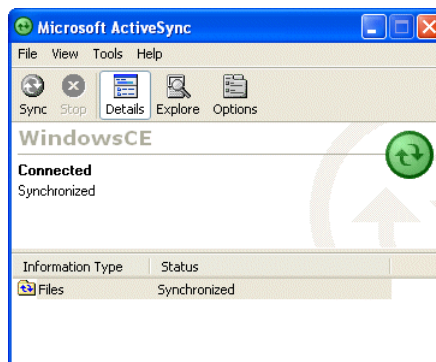
3. If you choose to synchronize files, the following message will appear:



4. Click **OK** to continue.



5. Click **Finish** to complete the setup. ActiveSync will then create a folder on your desktop and attempt to synchronize the item types you selected with similar items on the JETT (e.g., if you selected **Files** and placed a file in the My Documents folder on the JETT, ActiveSync will transfer it to the JETT's folder on the desktop).



On the JETT, an icon indicating a ActiveSync connection will appear in the system tray.

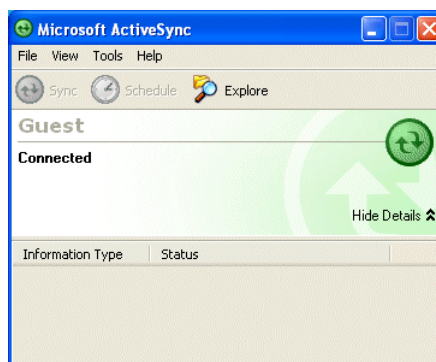


CREATING A GUEST CONNECTION

If you do not require synchronization or plan to connect to the PC on a regular basis, you can set up a "guest" connection to perform tasks such as coping files or installing programs.

To create a guest connection during your initial setup:

1. Select **No** in the New Partnership wizard and then click **Next**. The ActiveSync main menu will reappear. A status of "Connected" should appear in the ActiveSync window.



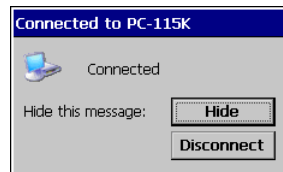
On the JETT, an icon indicating a ActiveSync connection will appear in the system tray.



DISCONNECTING ACTIVE SYNC

To terminate the ActiveSync connection:

1. On the JETT, double-tap the connection icon in the System Tray. The PC-115K Status dialog box appears.



2. Tap **Disconnect**.

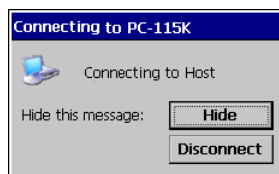
SUBSEQUENT CONNECTIONS

To perform subsequent ActiveSync connections:

1. If needed, connect your interface cable between your desktop computer and the JETT.
2. On the JETT desktop, tap **PC Link**.



3. On the JETT, the following message box appears:



4. If you have created partnership, the ActiveSync will automatically reconnect and attempt to synchronize any files. If you have not created a partnership, ActiveSync will display the New Partnership wizard. In which case, you can create a partnership or a guest connection.

NETWORK CONNECTIONS

CREATING A WIRELESS CONNECTION

To create a wireless network connection, using an approved wireless card or integrated option, refer to either the *JETT•XL Wi-Fi Setup and Configuration Guide* or the *JETT•XL Bluetooth Setup and Configuration Guide*.

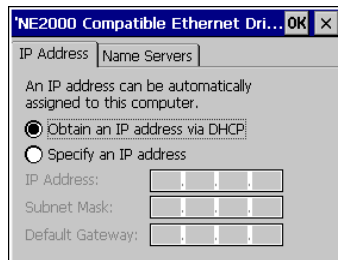
CREATING A WIRED ETHERNET NETWORK CONNECTION

You can connect directly to a network to access e-mail, access files available on a network server or browse the Internet and using Socket Low Power Wired Ethernet CF card.

Note: If you are using communications cards other than those supplied by Two Technologies, you will need to ensure that the card manufacturer supports Windows CE 5.0.

To create a Wired Ethernet connection:

5. Insert the Ethernet card into the JETT and connect the cable to the network.
6. Select **Start > Settings > Control Panel**. Double-tap **Network and Dial-Up Connections**.
7. Double-tap the connection icon for the adapter. For example, if you have a NE2001 Ethernet adapter, double-click the NE2001 connection icon.
8. In the Ethernet Driver Settings dialog box, select **Obtain an IP address via DHCP** and tap **OK**.

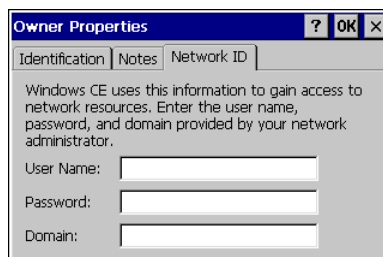


9. If prompted, enter the **User Name**, **Password**, and **Domain** name used to log on to your network.

SETTING UP IDENTIFICATION FOR REMOTE NETWORKS

To set up identification for remote networks:

10. Select **Start > Settings > Control Panel**.
11. Double-tap **Owner**. The Owner Properties dialog box appears.
12. In the **Network ID** tab, enter the user name, password, and domain name you use to log on to the remote network.



13. Tap **OK** to exit.

CONNECTING TO A MAIL SERVER

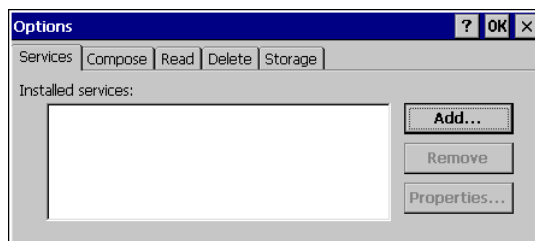
You can send and receive e-mail by connecting to a POP3 or IMAP4 server. Inbox contains an e-mail service for each method you use. For either service, you must establish a connection to your Internet service provider (ISP) or to the appropriate mail server in your local area network. In addition to creating this connection, you must also create the e-mail service.

Prior to setting up a service, you should obtain the following information from your ISP or network administrator: POP3 or IMAP4 server name, SMTP host name, user name, password and domain name (for network connections only).

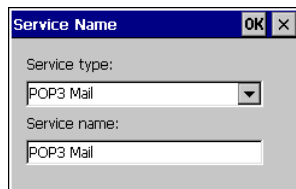
Notes: Windows CE 5.0 does not support other mail protocols such as AOL or services that use special authentication, such as MSN. However, you can gain access to the Internet through these services. If you use the same service to connect to different mailboxes, set up and name a different service for each connection. For additional information about the inbox, refer to Windows CE 5.0 online help.

To connect to your POP3 or IMAP4 mail server:

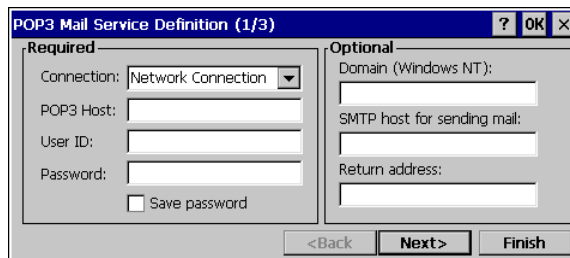
1. Select **Start > Programs > Inbox > Services > Options**. The Options dialog box opens.



2. Select the **Services** tab and tap **Add**. The Service Name dialog box opens.

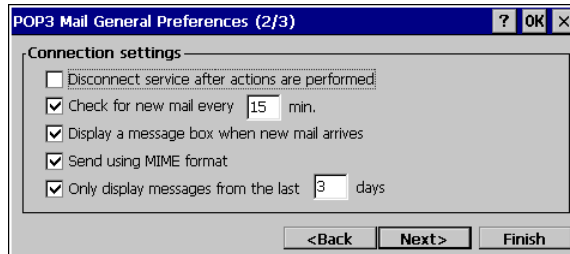


3. From the **Service type** list, select **POP3 Mail** or **IMAP4 Mail**, enter a unique name for the service (you cannot change this name once entered) and tap **OK**. The Mail Service Setup wizard appears.

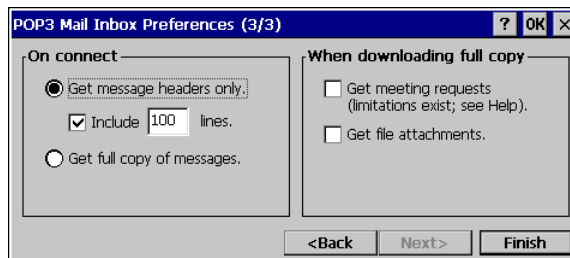


4. In the Required panel:
 - Select the name of the connection you created to connect to the mail server. If you are receiving e-mail through a network (Ethernet) connection, select **Network Connection**.
If you want Inbox to use your current connection, select **(none)**.
If you have not created a connection, select **Create new connection**, double-tap the Make New Connection icon, and follow the instructions in the wizard. When finished, select Inbox in the Taskbar and continue setting up Inbox.
 - Enter the **POP3 Host** or **Server** (IMAP4) name of the mail server you use to receive and send messages.
 - Enter the **User ID** (user name or mailbox ID) assigned to you.
 - Enter the **Password** you will use to access this mail account. If you do not want a prompt to enter the password each time you connect, select **Save password**.

5. In the Optional panel:
 - If connecting to a network that uses Windows NT domain security, enter the **Windows NT domain name**.
 - If your mail service uses a separate server for SMTP, enter the **SMTP Host name**. For POP3 Mail service with an ISP, the ISP must use an SMTP mail gateway.
 - Enter your **return e-mail address**.
6. Tap **Next**. The General Preferences dialog box opens.



7. Choose any of the settings, all of which are optional, then click Next. The Inbox Preferences dialog box opens.



8. Choose any of the settings as needed, then click **Finish**. The Mail Service Setup wizard closes and the Options dialog box reappears.

Note: Receiving entire messages consumes storage memory.

9. Close the Options dialog box to return to the Inbox. .

CHAPTER 6



TROUBLESHOOTING

MY JETT DOES NOT RESPOND WHEN I PRESS THE POWER BUTTON.

- Is the unit in Suspend mode?
- If battery-powered, check the batteries.
- Are all cables connected properly:
 - Is the power supply plugged into an active AC outlet?
 - Is the power connector securely plugged into the JETT?

I CHANGED MY SYSTEM SETTINGS, BUT WHEN I TURN ON THE JETT, MY SETTINGS ARE GONE.

- You must save the registry after making any system or configuration changes.

I TRANSFERRED FILES TO THE JETT FROM MY HOST COMPUTER, BUT WHEN I TURN ON THE JETT MY TRANSFERRED FILES ARE MISSING.

- To store transferred files permanently, you must file copy the files into internal flash memory or a compact flash card.

Occasionally, transferred files can be hidden from view, double-tap My Computer, select Options from the View menu and clear all boxes.

I CANNOT CONNECT TO THE DEVELOPMENT SYSTEM USING ActiveSync.

- Did you install ActiveSync using the Administrator account?
- Check the cable connections.
- Check the serial communications configuration.
- Make sure the correct COM port is available.
- In ActiveSync, check the Connection Settings for the connection type you are using (USB, Serial or Ethernet).

THE SCREEN IS TOO LIGHT OR TOO DARK.

- Adjust the brightness via the brightness control in the Control Panel.

THE STYLUS IS NOT RESPONDING PROPERLY.

- The screen is not calibrated correctly to interpret the screen taps. You need to recalibrate the screen.

THE JETT ACTS SLOWLY.

- The unit may be short of program memory or storage memory.
- Increase the amount of storage or program memory through the System control in the Control Panel.
- You can also delete any unnecessary files.

I GET LITTLE OR NO SOUND FROM THE JETT.

- Adjust the volume and sound properties via the Volume and Sound control in the Control Panel.

THE JETT DOES NOT RECOGNIZE A COMPACT FLASH OR DEVICE CARD.

- The card is not installed or seated properly.
- Reinstall the card. There may be an unstable connection between the card and the JETT.
- Remove the card, clean the edge connector with a soft dry cloth, and reinstall the card.

THE JETT GOES INTO AUTO-SUSPEND AFTER A SHORT PERIOD OF INACTIVITY.

- As a default, the device will auto-suspend after two minutes of inactivity while running on batteries and after thirty minutes of inactivity when running on AC power.
- Adjust the power management properties via the Power control in the Control Panel.

NO SOUND IS HEARD WHEN YOU TAP THE TOUCH SCREEN OR PRESS A KEY.

- Volume setting is low or turned off.
- Check the volume slider in the Volume & Sound properties dialog box in the Control Panel.

APPENDIX A



SPECIFICATIONS

POWER

- ▶ Recharge/Line-Power: 11 to 18 VDC, 1.2A
- ▶ Standard: Input at 11 to 18 VDC via JETT•connect system interface for line-power or battery charging operations
- ▶ Optional: Output at 5 VDC @ 1.2A to operate peripheral devices (either port)
- ▶ Rechargeable Battery Type: Nickel Metal Hydride (or 6 AA alkaline batteries)
 - Current Rating: 2 Amp Maximum
 - Voltage: 7.2 Volts
 - Capacity: 2500 mAh

DISPLAY

- ▶ Supertwist Nematic Liquid Crystal TFT Touch Screen with white LED backlight
- ▶ Resolution: 320 x 240 pixels QVGA color

CPU

- ▶ Type: Intel PXA270 processor
- ▶ Speed: up to 624 MHz
- ▶ Operating System: Windows CE 5.0

MEMORY AND MASS STORAGE

- ▶ SDRAM: 128 MB (256 MB optional)
- ▶ Internal Compact Flash: 512 MB standard (30 MB reserved for OS), upgradeable to 2 GB
- ▶ Optional: Compact flash card slot

USER INPUT

- ▶ Touch Screen
- ▶ Key Pad: Choice of 52-key joystick style elastomeric keypad, 45-key elastomeric keypad (9 rows x 5 columns), 30-key elastomeric keypad (10 rows x 3 columns), 15-key elastomeric (5 x 3), or 45-key membrane (9 rows x 5 columns)
- ▶ Feedback: Tactile and audible
- ▶ Optional: LED backlighting

INDICATORS

- ▶ 5 Modifier Key/Programmable LEDs
- ▶ Charge/Low Battery Indicator (battery-powered units only)

CONNECTIVITY

- ▶ Standard: JETT•connect serial port with choice of full RS-232 or a choice of two of the following: short RS-232 (2), short RS-422, short RS-485 or USB.
- ▶ Optional: Bluetooth (Class 1 or 2) ,Wi-Fi (802.11b) or GPRS

ENVIRONMENTAL

- ▶ Operating Temperature: -20°C to +50°C
- ▶ Storage Temperature: -20°C to +70°C
- ▶ Charging Temperature: -20°C to + 40°C
- ▶ Humidity: 5-95% Non-condensing
- ▶ IP Rating: 65

PHYSICAL DIMENSIONS

- ▶ Height (H): 9.84 Inches (250 mm)
- ▶ Width (W): 4.75 Inches (120.7 mm)
- ▶ Depth (D): 1.83 Inches (46.5 mm)
- ▶ Weight with NiMH Batteries: 29 Ounces (822 grams)
- ▶ Weight with Alkaline Batteries: 28 Ounces (794 grams)
- ▶ Weight without Batteries: 23 Ounces (652 grams)

Figure A-1: Case Dimensions

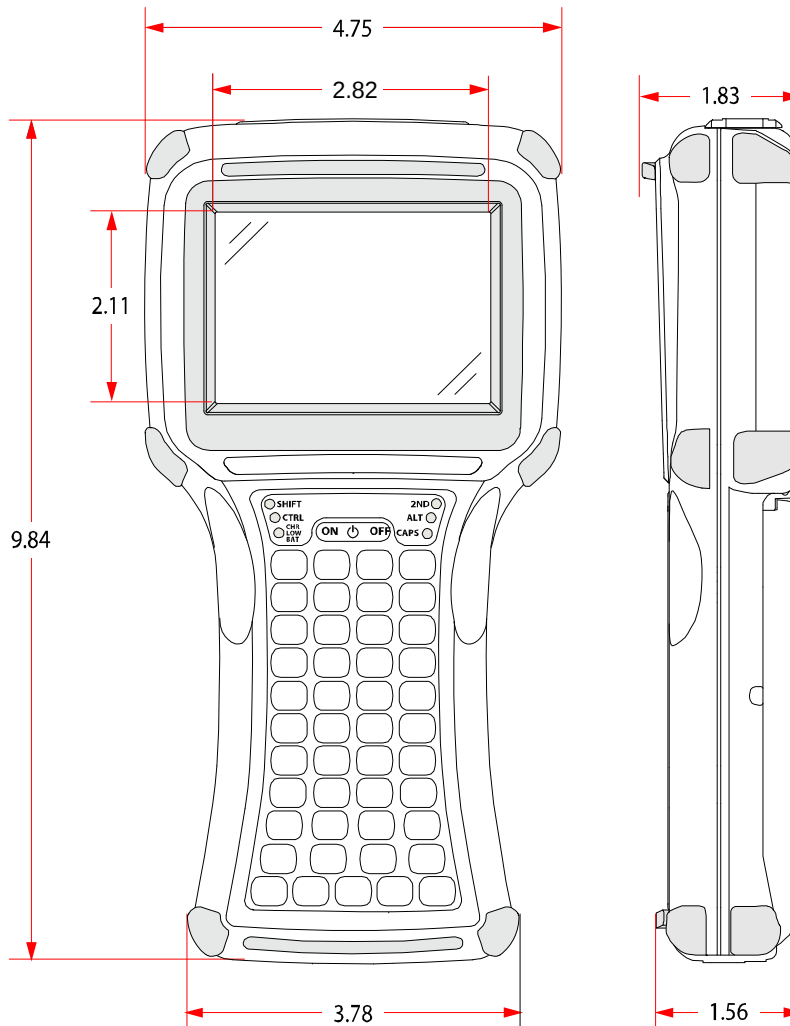
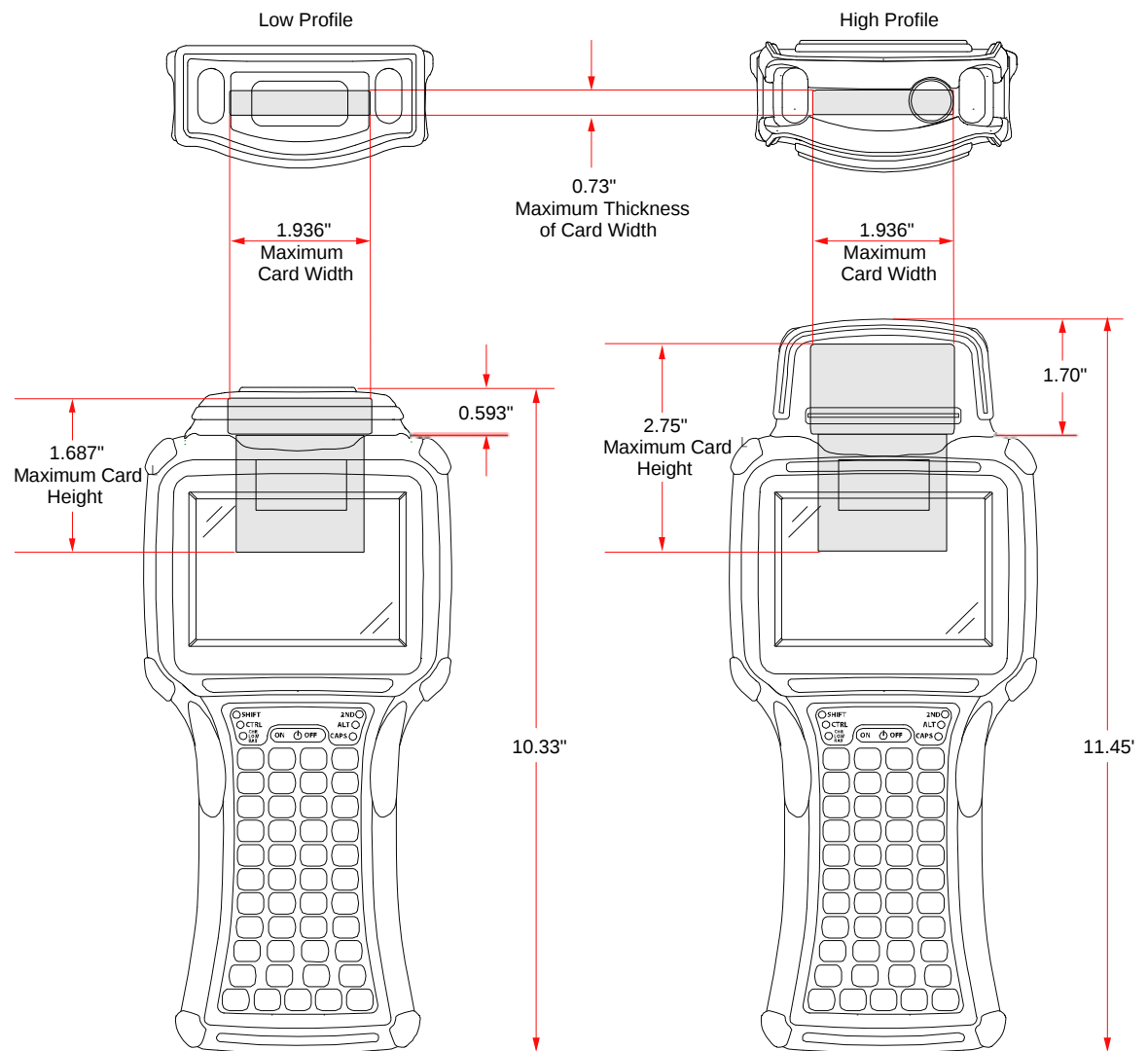


Figure A-2: Case Dimension with JETT•HATCH



APPENDIX B



SIGNAL AND PIN ASSIGNMENTS

JETT•CONNECT CABLES

Figures B-1 and B-2 list the standard RS-232 signal and pin assignments for the JETT•connect cables.

Figure B-1: 91708 Cable (Male DE9) RS-232 Signal and Pin Assignments

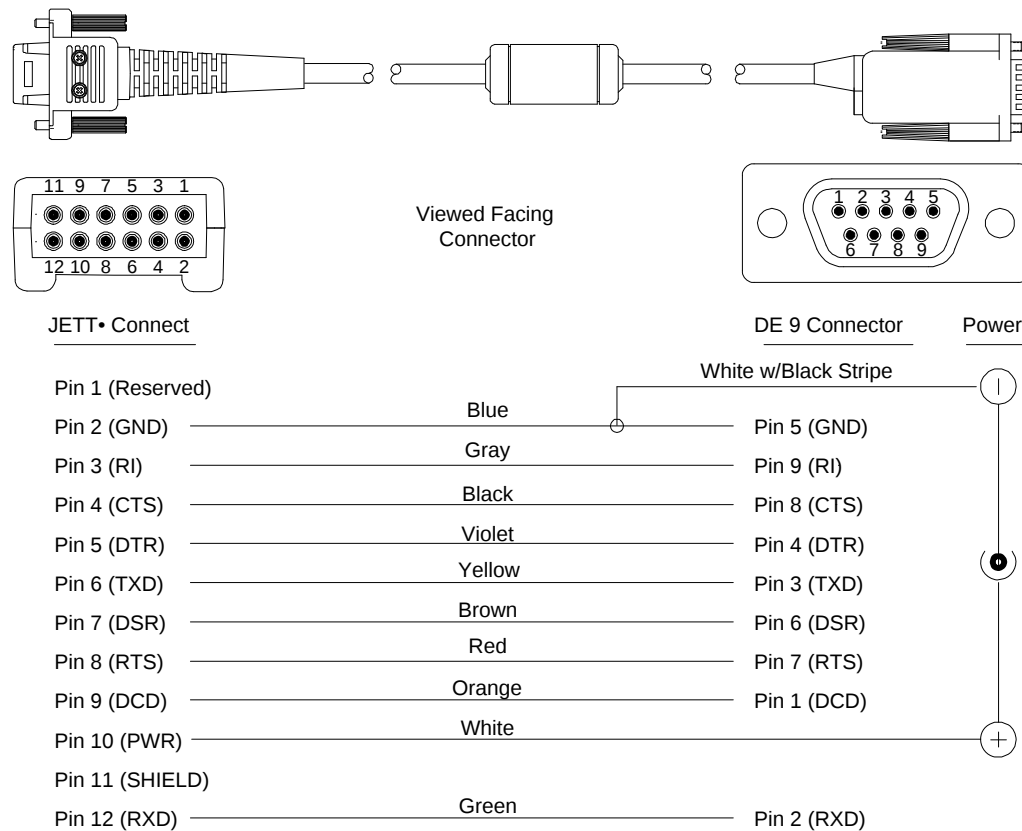
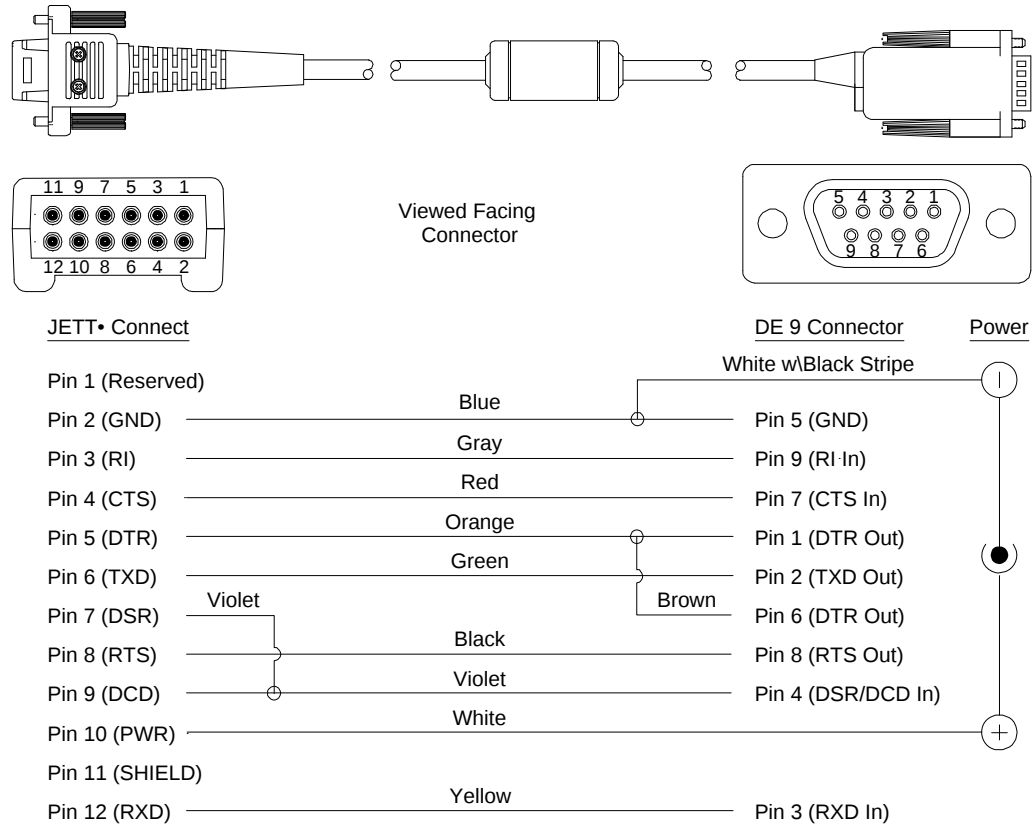


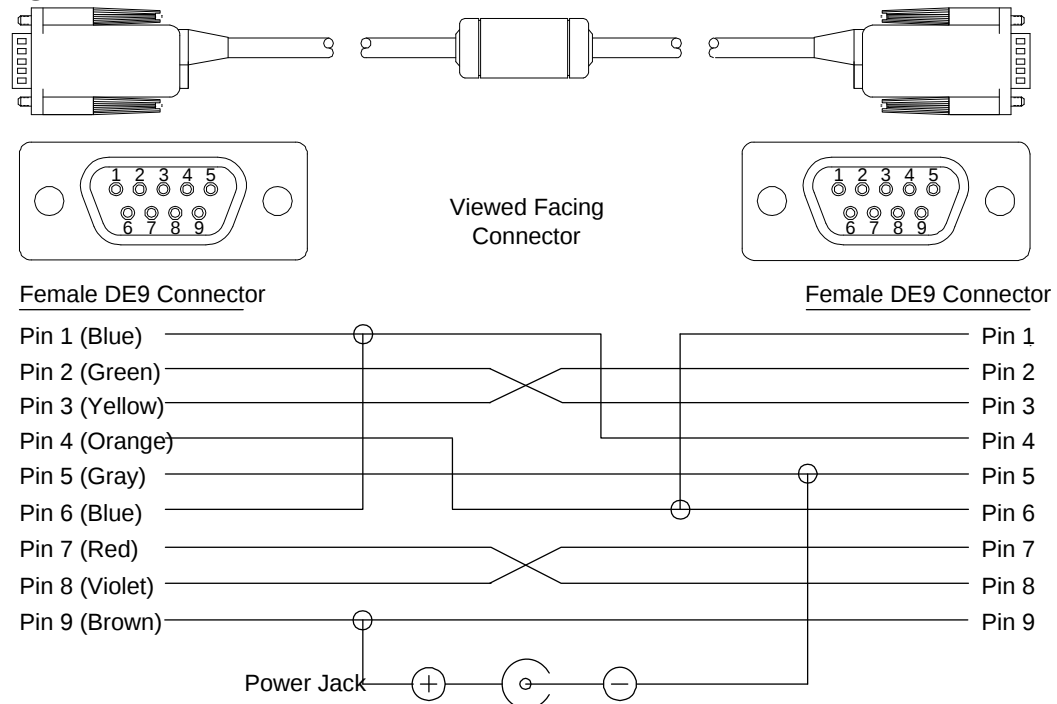
Figure B-2: 91709 Cable (Female DE9) RS-232 Signal and Pin Assignments



NULL MODEM CABLE

Figure B-3 lists the signal and pin assignments for Two Technologies' 14375 DE-9 Female to DE-9 Female null modem cable. Please note that this cable differs from standard null modem cables in that it uses Pin 9 for input power for the JETT.

Figure B-3: DE-9 Female to DE-9 Female Null Modem Cable





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