

## Robot Communications

### Laptop Hyperterminal Communications Setups



#### **PINCH WARNING**

Make sure the Working Robot Envelopes are clear of equipment and personnel prior to and during this procedure. Failure to maintain a clear Working Robot Envelop may cause personal injury and or equipment damage.

**Frequency:** As necessary

**Tools Required:** Gloves, Safety glasses, Straight through RS-232 Male-DB9 to Female-DB9 Cable and Laptop Computer.

**Reference Documents:** Brooks Technical Support Bulletin TSB-0423, VCE User Manual MN-002-2700-00, AcuTran 7 User Manual MN-002-6980-00, MagnaTran 7 User Manual MN-003-1600-00, AcuLigner 7 User Manual MN-002-7931-00



#### **Procedure:**

##### MagnaTran 7 Communications

- 1 **CONNECT** the RS-232 cable into SIO 1 of the MagnaTran 7 & **CONNECT** the other end of the cable into the serial port of the laptop computer



- 2 **MOVE** the “SERV” switch on the MagnaTran 7 down for service mode. The **orange LED indicating service mode will light**. The green “RX” LED should also light.
- 3 **CONTINUE** with “Hyperterminal Robot/Aligner Communications Setup”



#### **Procedure:**

##### Hyperterminal Robot/Aligner Communications Setup

- 1 **FROM THE LAPTOP, Choose** the Start icon ⇒ Programs ⇒ Accessories ⇒ Communications ⇒ HyperTerminal.
- 2 **TO ACCESS** a previously **SAVED** setup communications link, choose File ⇒ Open ⇒ and the name of the connection. Then skip to Step# 11
- 3 **For setting up a first time connection, in** “name” field enter “**Brooks Robot/Aligner Comm**” and proceed with next step.
- 4 **CHOOSE** any icon.
- 5 **CLICK** “Ok”.
- 6 **FROM the “Connect to” window, the last line reads “Connect using”.** **Choose** Com 1.
- 7 **CLICK** “Ok”.

The new window will display “Port Settings”.

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## Robot Communications

- 8 **CHANGE** “Bits Per Second”, BAUD RATE, to **9600**.
  - a. “Data Bits” to **8**.
  - b. “Parity” to **None**.
  - c. “Stop Bits” to **1**.
  - d. “Flow Control” to **None**.
  - e. **CLICK** “OK”.“RX” LED should now be **Off**.
- 9 **CLICK** “enter” key on keyboard to “display\_RDY” or : .
- 10 To **ENABLE** local echo, **CLICK** the disconnect icon, choose **File** ⇒ **Properties** ⇒ **Settings Tab** ⇒ **ASCII Setup**.
  - a. **CLICK** “Send line ends with line feeds”,
  - b. **CLICK** “Echo typed characters locally”,
  - c. **CLICK** “Append line feeds to incoming line ends”.
  - d. **CLICK** “Ok” twice.
- 11 **TYPE** in commands to communicate with the robot. See Reference Documents.
- 12 **CLICK** the disconnect icon when finished.  
“RX” LED should light.
- 13 **EXIT** Hyperterminal.

If prompted to save session, choose “yes”.

- 14 **DISCONNECT** the laptop RS-232 Cable **RECONNECT** all previously disconnected cabling where appropriate.



**NOTE . . .**

If communicating with the MagnaTran 7 return “SERV” switch up for normal mode upon completion.