



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”



Robot Communications



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”.
- 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.