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Topcon 800 Direct mode cabled to the instrument standing behind it:

1. Turn on instrument

2. Level the instrument

If the communication parameters need to be set, proceed with step 3, if not, go to step 21.

3. From the main menu screen, select F6 - Soft Key "Para"

- 4. Select F2 Soft Key "Communication"
- 5. Select 1 "Serial Port"
- 6. Select "RS232C"
- 7. Select F1 Soft Key "Set"
- 8. At prompt "Parameters Set OK?", select F5 Soft Key "YES"

9. Select 2 "Set RS232C"

10. Set "B. Rate" to "1200" followed by the ENT button

- 11. Set "Data L." to "7" followed by the ENT button
- 12. Set "Parity" to "Even" followed by the ENT button
- 13. Set "Stop Bit" to "1" followed by the ENT button
- 14. Set "Delimit" to "CRLF" followed by the ENT button
- 15. Set "REC-A/B" to "A" followed by the ENT button
- 16. Set "Protocol" to "On" followed by the ENT button
- 17. Set "NEZ-REC" to "Std" followed by the ENT button
- 18. Set "TrkState" to "Off" followed by the ENT button
- 19. At prompt "Parameters Set OK?", select F5 Soft Key "YES"
- 20. ESC to main menu

21. From the main menu, Select F2 - Soft Key "STD"

😂 Instrument Setup 🛛 🚯 🔽 🗙	📚 Instrument Setup 🛛 🚯 🔽 🗙
Current Comms Settings Search	Current Comms Settings
Manufacturer: Topcon Direct	Type: Cable
Model: GTS 820 (motorized)	
	Defaults
	Port: COM 1
	Baud: 1200 Parity: Even
Load Save Rename Delete	Data Bits: 7 💌 Stop Bits: 1 💌

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Topcon 800 Robotic mode at the Prism Pole with the data collector:

- 1. Turn on instrument
- 2. Level the instrument
- 3. Select PROG
- 4. Select Ext. Link

If the communication parameters need to be set, proceed with step 5, if not, go to step #8.

- 5. Select Settings
- 6. Select the desired communication method: RS-232C, RC, Radio
 - a. Cable: Set com parameters (9600, 8, None, 1)
 - b. Terminate: ETX
 - c. RTS: High
 - d. Set the "Rec A/B" to "Rec mode B"
- 7. Select Exit and then ESC.
- 8. Select Execute.
- 9. The instrument will display "Remote control is being done from the controller."

😫 Instrument	t Setup	🎩 🔽 🗙	😂 Instrun	ient Setup	📃 💽 🚺
Current Comms Settings Search RC		Current Co	omms Settings	Search RC	
Manufacturer:	Topcon Robotic	- 🔳	Type:	Radio	_
Model:	GTS 820 Remote	Ē	Radio:	Cable or Generi	ic Device 🔻
					<u>D</u> efaults
			Port:	COM 1	-
			Baud:	9600 💌	Parity: None 💌
Load	<u>S</u> ave <u>R</u> ena	me <u>D</u> elete	Data Bits:	8 🔻	Stop Bits: 1

For either Direct mode or Robotic mode its **CRITICAL** that you fill out the Settings tab with the correct prism constantsfor "FS Target" foresight prism and "BS Target" backsight prism type

You will get Errors in your Distance readings if these values aren't filled out properly

😂 Instrument Setup	🗈 🔽 🛃				
Current Comms Settings Search					
EDM Mode	Coarse 💌				
FS Target	-30mm 🔹 🛠				
BS Target	0.0mm 🗨 🗶				
Compensator	Two axis 💌				
🔽 Auto Aim (Prism)					

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