



# TECH NOTES

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July 10, 2008

WELCOME TO TECH NOTES - FRONTIER PRECISION'S MONTHLY E-NEWSLETTER!!! TECH NOTES IS DESIGNED TO KEEP YOU UP TO DATE WITH TIPS AND INFORMATION ON THE LATEST TECHNOLOGY IN SURVEYING, CONSTRUCTION, AND GIS. OUR COMPANY GOAL IS TO HELP YOU BE MORE EFFICIENT AND MORE PROFITABLE BY UTILIZING TODAY'S TECHNOLOGY.

If this email is not displaying properly, please open the attached PDF file... also attached is FPI's current Used Equipment list.

**NANU FORECAST OUTAGE**  
SATELLITE 4 WILL BE UNUSABLE JULY 10-11 2008

**TECH SUPPORT HOTLINE 888.797.4774**

### Maximizing Radio Performance

All of the new technology from these newer Trimble receivers (like the R8 GNSS and R6), including their ability to track more satellites, can possibly cause some loss in radio performance. Here are a few tips to help you maximize your broadcast radios:

- ⇒ **Upgrade the radio to the latest version of firmware.** Make a note of the versions that are listed in this Tech Note. The Trimble HPB450 does have firmware that helps with this scenario, version 2.42.
- ⇒ **Make sure to monitor your base radio before leaving the base.** See if the RX light is on or flashing. If so, you will need to change frequencies.
- ⇒ **Turn the Station Index ON** (in the Rover options of your Survey Style) so that when you are starting your rover you see the radio performance reliability. Good reliability is 90% or higher. If you are getting low reliability, you might need to start the base with a higher elevation mask. This is found in the Base Options of your Survey Style.
- ⇒ **Always end the survey at the base.** Do not let the base broadcast (TX) with the radio antenna unplugged. This can cause the amplifier to burn out. Always disconnect power from the radio before unplugging the radio antenna.
- ⇒ **Keep the contacts clean and radio antenna connections in good shape.** If you are having to use electrical or duct tape to keep the cable together, then you need a new end or possibly a new cable!

Keeping these things in mind can help insure you have more reliable performance when operating an external radio. These radios are a required link between your base and rover, so do not underestimate the importance of this equipment.

If you have any questions, please contact **FPI's Tech Support Hotline at 888-797-4774.**

### Current Firmware Versions

Trimble 5700/5800/R7/R8	2.32
Trimble R8 GNSS	3.50
Trimble TSC2/ TCU Survey Controller	12.22
Trimble ACU/TSCe Survey Controller	11.40
Trimble TSC2/CU/TSCe Survey Pro w/ TSX	4.5.3
Trimble NetRS	1.20
Trimble NetR5	3.60
Trimble S6	R10.0.58
Trimble HPB450 / PDL450	2.42
Trimble Geomatics Office	1.63
Trimble TerraModel	10.5
Trimble TerraSync	3.20
Trimble Pathfinder Office	4.10

### Upcoming Events

**MSPS Summer Meeting - Alexandria, MN**

July 31 - August 1 2008

Arrowwood Resort

(Click the link above for more information)

### Looking for quality Used Equipment???

A listing of Frontier Precision's Used Equipment Inventory is attached to this email.

Call your local sales rep for more information.



### Current Trade-In Promotions

Upgrade your old equipment and get more productive with Trimble's newest technologies!!! Contact your local Frontier Precision Sales Rep for details or click on the regional links below to find a local sales specialist.

Receive up to:	Towards the purchase of a new:
\$4000	Trimble S6 Servo, Autolock, or Robotic Total Station
\$5000	Trimble 5700, R7, 5800, R8, or R8 GNSS GPS System
\$1000	Trimble TSC2 w/ Trimble Field SW
\$10,000	Trimble R6 GPS System

Visit [www.frontierprecision.com](http://www.frontierprecision.com) for more information!!!

Or click the area links below to reach a Frontier Precision Sales & Solution Specialist.

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