

**OREGON  
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OF  
TRANSPORTATION**



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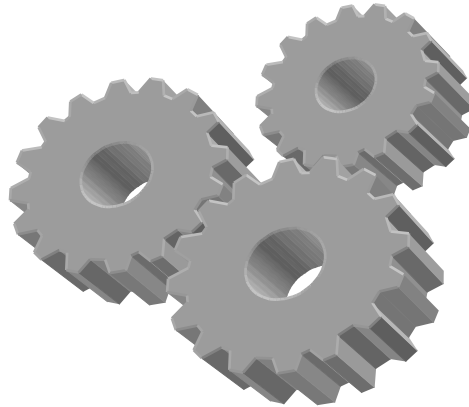
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## **User Tip**

<b>Title</b>	Zero Baseline Calibration
<b>Product</b>	Leica GPS System 1200 and LGO
<b>Version</b>	2.0.0.0
<b>Date</b>	February 6, 2006
<b>Author</b>	Lorne G. C. Brown
<b>Overview</b> The process of 'Zero Baseline Calibration', using an antenna splitter, allows two receivers to use the same GPS antenna (with the same 'phase center') to collect data, resulting in the same position for both receivers. This process will only check the integrity of the GPS receivers. It will not check the antenna or the software (e.g. LGO) used to process the collected data.	



## **Introduction**

The process of 'Zero Baseline Calibration', using an antenna splitter, allows two receivers to use the same GPS antenna (with the same 'phase center') to collect data, resulting in the same position for both receivers. This process will only check the integrity of the GPS receivers. It will not check the antenna or the software (e.g. LGO) used to process the collected data.

## **Field Process**

1. Connect two GPS receivers to one GPS antenna using the 'GPS Antenna Splitter' (all on a single tripod).
2. Create a New Job on each GPS receiver.
3. Select the configuration for Rapid Static (RAPID STAT ROVER).
4. > **OCUPY** for a minimum of 5 min.

## **LGO Process**

1. **Import > Raw Data.**
2. > **GPS-Proc** tab.
3. Designate one point as 'Reference' and one point as 'Rover'.
4. Right-click in window with Interval bars and select **Process**.
5. Right-click on the screen and **Store**.
6. > **Points** tab and compare position of points  
or  
> **View/Edit menu > Show Direction & Distance.**