

ARCS PROCEDURE: Author: W. Porch	RSR LEVELING AND ALIGNMENT PROCEDURE	PRO(RSR)-021.000 14 November 2003 Page 1 of 2
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RSR Leveling and Alignment Procedure

I. Purpose:

This document describes the method for operator or RESET leveling and/or realignment of the MFRSR.

II. Cautions and Hazards:

- Perform this procedure only during safe weather conditions.

III. Requirements:

- Allen wrench set and/or other tools needed to loosen and tighten hold-down bolt in center of MFRSR stand and three leveling screws on MFRSR stand legs.
- For leveling: A bubble level that attaches to diffusing disk on top of MFRSR sensor unit.
- For alignment: A calculation of solar noon at the site and enough sunlight to observe no shadow from the motor bracket.

IV. Procedure:

A. Leveling and Aligning MFRSR

1. Follow the procedure for leveling and aligning the MFRSR in the MFRSR-7 installation manual pages 2-4 and 2-5 with the exception of using the built-in bubble level on the MFRSR stand.
2. When using the built-in bubble level, attach bubble level to the top of the diffusing disk for leveling. (See Attachment 1.)

V. References:

MFR-7 Rotating Shadowband Radiometer: Installation and User Guide, Yankee Environmental Systems, Inc. MAN (RSR)-009.000

VI. Attachments:

1. MFRSR Diffusing Disk

Attachment 1: MFRSR Diffusing Disk

At solar noon, the motor bracket should not cast a shadow to either side of the band motor when the instrument is properly aligned.

