

ARCS PROCEDURE:	MWR BLOWER ASSEMBLY REPLACEMENT	PRO(MWR)-010.001
Author: F. Helsel		June 26, 1998 Page 1 of 3

## MWR Blower Assembly Replacement

### I. Purpose:

This procedure describes how to replace the Blower Assembly on the MWR. This procedure is used after TWPPPO has determined that the existing MWR Blower Assembly needs to be replaced.

### II. Cautions and Hazards:

- Prior authorization from TWPPPO to replace the MWR Blower Assembly
- Weather conditions: clear and dry for the duration of this procedure.
- Use caution! Do not damage the soft, white Teflon window on the MWR top section in any way.
- Do not begin this procedure until the new blower assembly is on site and available for replacement.

### III. Requirements:

- Medium Phillips screw driver
- Small adjustable wrench
- Cups to hold screws, washers and nuts
- Two people

### IV. Procedure:

#### A. MWR Blower Assembly Replacement:

1. Turn off the MWR computer in the I-VAN.
2. Flip the power switch on the front of the MWR to the **OFF** position; this ensures a safe working area.
3. Face the blower-end of the MWR. You will notice there are four (4) large black Impulse connectors. The upper two (2) are straight connectors and the lower 2 are formed at right angles. Disconnect the two (2) upper (and straight) connectors and let them hang down. This allows you to lift the top section of the MWR off of the lower section in step 5.
4. Locate the three clips on each long side (6 total) of the MWR; unfasten all six.
5. A second person is helpful here. Locate a rotating mirror inside the MWR.  
***Important: Direct sunlight must NOT shine on the mirrored surface.***

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Lift the MWR top section off the lower section using the handles at each end, making sure that the rotating mirror is pointed down. If not, first rotate the mirror into the desired position and then lift the MWR top section completely off the lower section.

6. **Note:** Save all spacers, washers, and nuts in cups and write down their precise location before you remove them.

Remove the four (4) screws from the moisture sensor mounted on the top with a screwdriver.

7. Remove the two (2) screws holding down the moisture sensor wiring. They are held in place by fastening nuts on the inside of the MWR top section. To remove these screws, use both the screwdriver and the adjustable wrench.
8. Remove the four (2) screws (two [2] on each side) fastening the blower assembly housing to the main portion of the MWR top section. The broken blower assembly housing and moisture sensor are now disconnected from the MWR top section. Lift and set aside the broken blower assembly and moisture sensor.
9. Attach the new blower assembly housing to the front of the MWR top section by using four (4) screws (two [2] on each side).
10. Attach the moisture sensor wiring by replacing the two (2) screw and tightening the corresponding fastening nuts on the underside of the MWR top section.
11. Connect the moisture sensor to the top of the MWR top section using the four (4) remaining screws.
12. Return the MWR tip section to its original position on top of the MWR lower section. Refasten the sections using the three (3) clips on each long side (six [6] total).
13. Reconnect the two (2) straight, black, impulse connectors to the proper jacks on the MWR top section.
14. Flip the power switch on the front of the MWR to the **ON** position. The MWR fan should come on immediately. To check, place your hand near the mesh-covered, air intake on the front of the blower assembly housing.
15. Check the moisture sensor. Place your hand on the moisture sensor. Look for the little red indicator light to come on when your hand comes in contact with the sensor.
16. Turn on the MWR computer in the I-VAN; the MWR program should start taking data.

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**V. References:**

1. Fred Helsel, SNL.

**VI. Attachments:**

None.