Operation Manual
Panel Mounting Gas Pressure Regulators

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A. General information

This operation manual contains instructions on how to properly mount AP, AZ, AK, and SL model AP Tech regulators ordered as a "Panel Mount" option. For instructions on how to properly panel mount KT model regulators, refer to the *Piston Sensed Pressure Regulators* operation manual available in the Tech Briefs section of the AP Tech website at www.aptech-online.com.

B. Panel Mount Nut - AP/AZ/AK/SL Model Regulators

1. Adjust the regulator to full open by turning the wheel (#3, refer to **Figure 1**) clockwise until it stops.
2. Use a pointed instrument to pry the closure (#1) off the wheel.
3. With a ½" socket wrench, loosen and remove the lock nut (#2).
4. Remove the wheel from the unit.
5. Remove the panel mount nut (#6) from the unit.
6. Place the regulator through the panel hole cut out. For recommended hole cut out size, refer to the appropriate catalog data sheet.
7. Replace the panel mount nut (#6) onto the unit. Tighten the nut down onto the panel.
8. Place the wheel back on the stem (#5), and turn the wheel clockwise until it stops.
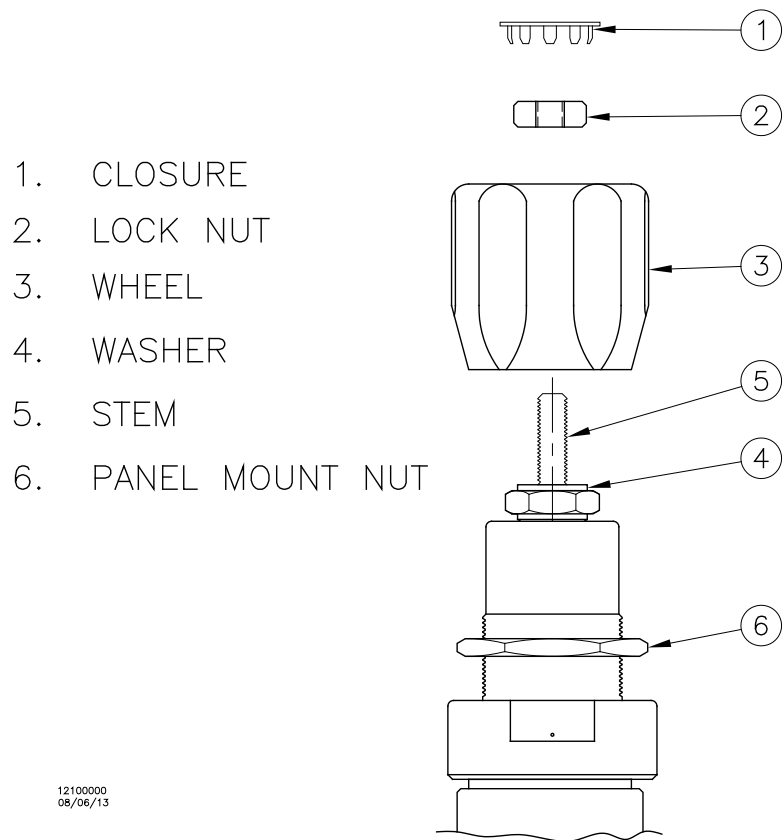9. Tighten the lock nut down against the wheel.
10. Replace the closure.

1.   CLOSURE

2.   LOCK NUT

3.   WHEEL

4.   WASHER

5.   STEM

6.   PANEL MOUNT NUT

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Figure 1. Regulator with panel mount nut. Regulator body not shown.

C. Panel Mount Ring – SL5200 Model Regulators

1. Adjust the regulator to full open by turning the knob (#2, refer to **Figure 2**) clockwise until it stops.
2. Using a 5/64 inch hex key wrench, unscrew the set screw (#1) 2-3 turns.
3. Unscrew and remove the knob from the regulator.
    Note: Washers (#4) may be installed on the stem (#3) to limit the maximum adjustable outlet pressure. Do not remove these washers.
4. Using a 5/64 inch hex key wrench, loosen two side set screws (#6) on opposite sides of the ring and remove the panel mount ring (#5).
5. Place the regulator through the panel hole cut out. Recommended hole cut out diameter is 1.18 ".
6. Replace the panel mount ring onto the unit. While pressing the ring down, tighten two side set screws.
    Note: Make sure, that the set screws are NOT aligned with the bonnet port (#8).
7. Using a 5/64 inch hex key wrench, tighten two top set screws (#7) to secure the panel mount.
8. Place the knob back on the stem, and turn the knob clockwise until it stops.
9. Tighten the set screw.
10. Close the regulator by turning the knob counter clockwise until it stops.

1. SET SCREW

2. KNOB

3. STEM

4. WASHER

5. PANEL MOUNT RING

6. SIDE SET SCREW (2X)

7. TOP SET SCREW (2X)

8. BONNET PORT
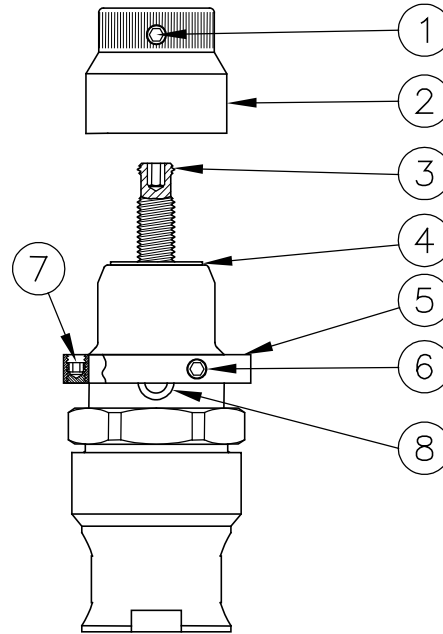
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**Figure 2.** SL regulator with panel mount ring.

D. Panel Mount Plate - AK1000T Model Regulators

1. Adjust the regulator to full open by turning the wheel (#3, refer to **Figure 3**) clockwise until it stops.
2. Use a pointed instrument to pry the closure (#1) off the wheel.
3. With a ½" socket wrench, loosen and remove the lock nut (#2).
4. Remove the wheel from the unit.
5. Attach the panel mount plate to the regulator body as shown in **Figure 4**.
6. Place the regulator through the panel hole cut out. Recommended hole cut out diameter is 1.85".
7. Attach the panel mount plate to the mounting panel. Standoffs may be needed (refer to **Figure 5** and **Figure 6**).

Note: Required standoff length will vary with mounting panel thickness. Mounting panel should be lower than plane "A", as seen in **Figure 5**.

8. Place the wheel back on the stem (#4), and turn the wheel clockwise until it stops.
9. Tighten the lock nut down against the wheel.
10. Replace the closure.

1. CLOSURE

2. LOCK NUT

3. WHEEL

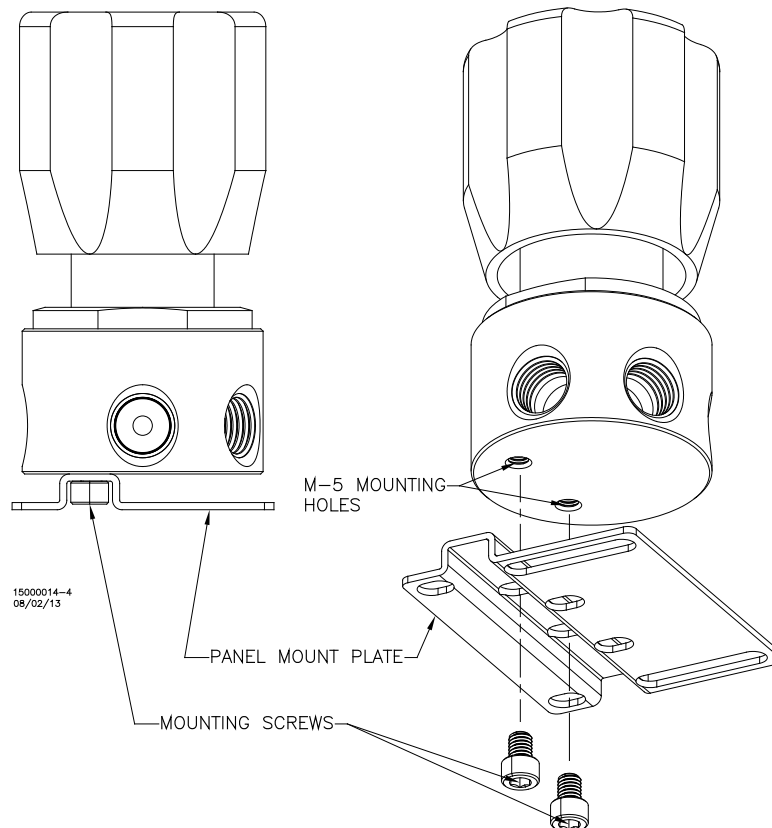4. STEM
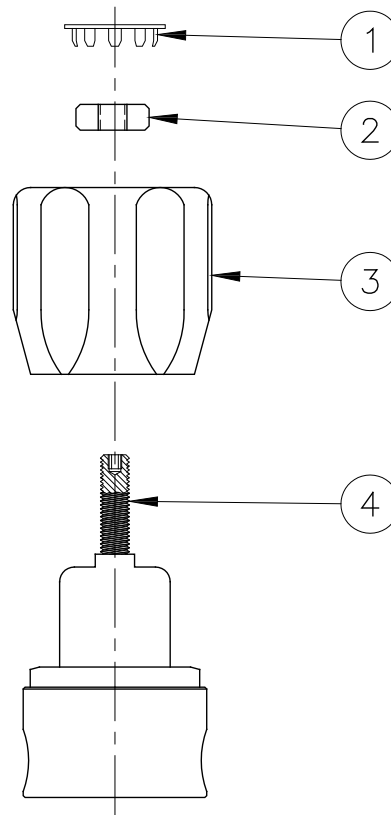
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Figure 3. AK1000T regulator.

M-5 MOUNTING
HOLES

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PANEL MOUNT PLATE

MOUNTING SCREWS

Figure 4. AK1000T regulator and panel mount plate.

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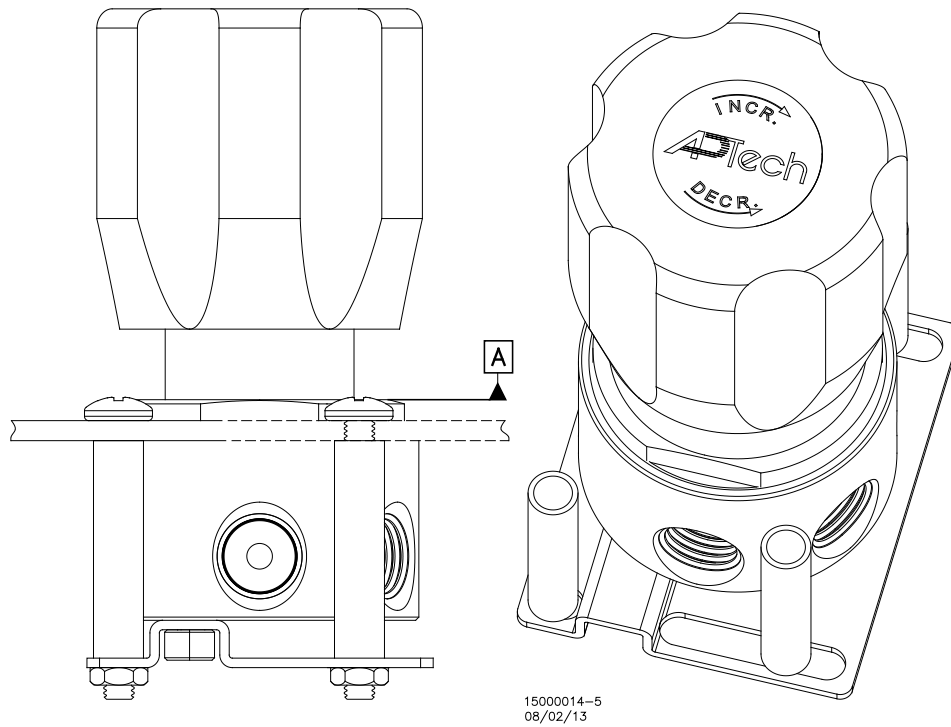
Figure 5. AK1000T and panel mount plate shown with example standoffs.
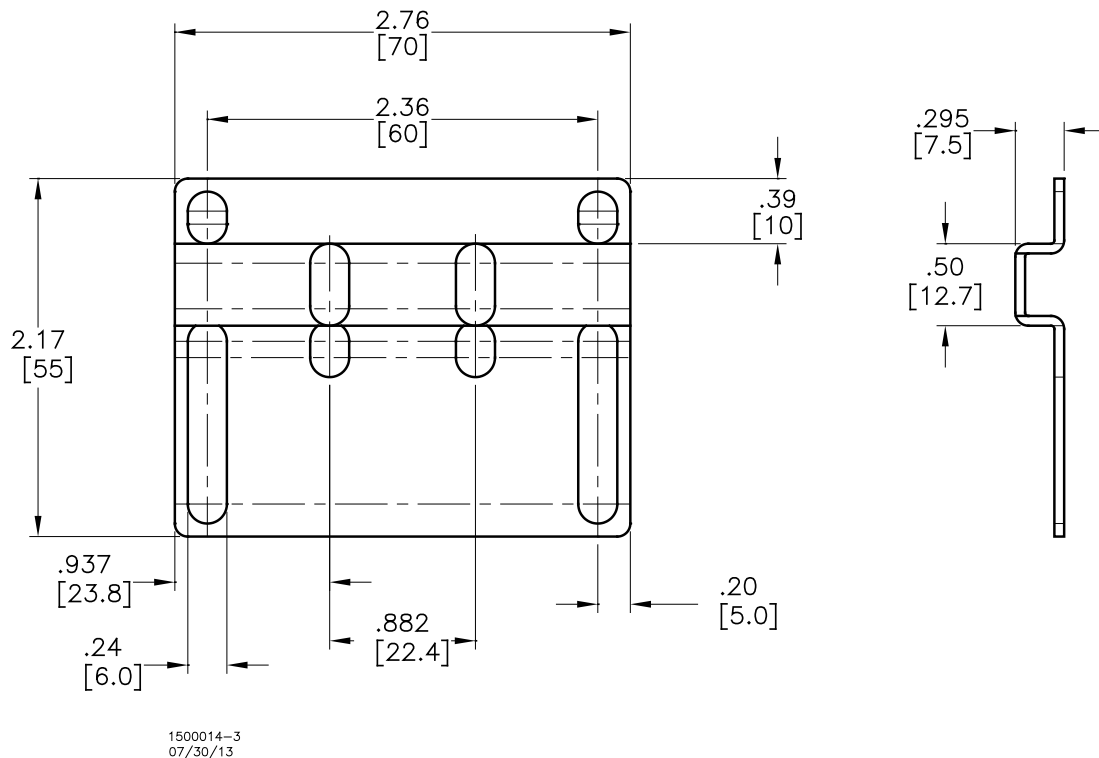

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Figure 6. Panel mount plate. Dimensions are in inches [millimeters].

Please contact the factory or your local representative to answer questions or for further information