Before performing any tests, you must verify the following:

- Snowplow is attached to vehicle and all harnesses are connected.
- Electrical connector pins and terminals are free of corrosion and tight.
- Vehicle battery connections are clean and tight and charging system is in good condition.
- Hydraulic reservoir is filled to recommended fluid level
- Inspect all hydraulic fittings and hoses for leaks.

If testing a central hydraulic system, you must verify the following:

- All hoses are connected properly to the snowplow
- Drive belt is tight and in good condition
- System pressure will not exceed supplied gauge pressure rating (3000 psi)
Safety Information

Read these instructions and labels on the snowplow before beginning installation.

**WARNING**
Indicates a potentially hazardous situation that may result in death or serious injury if not avoided.

**CAUTION**
Indicates a potentially hazardous situation that may result in minor or moderate injury and/or property damage if not avoided.

**NOTE:** Identifies tips, helpful hints and maintenance information the owner/operator should know.

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Hydraulic Safety

**WARNING**
Hydraulic oil under pressure can cause skin injection injury. If you are injured by hydraulic oil, get medical attention immediately.

**CAUTION**
Do not mix different types of hydraulic fluid. Some fluids are not compatible and may cause performance problems and product damage.

- Always inspect hydraulic components and hoses before using. Replace any damaged or worn parts immediately.
- If you suspect a hose leak, DO NOT use your hand to locate it. Use a piece of cardboard or wood.

**WARNING**
The tester shall keep bystanders 8' clear of the blade drop zone during these tests. Do not stand between vehicle and the blade. If the blade hits you or drops on you, you could be seriously injured.
# Pressure Kit Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Insta-Act w/ flare fittings</th>
<th>SEHP &amp; Insta-Act w/ Pipe Fittings</th>
<th>EHP</th>
<th>Belt Drive</th>
<th>Cen Hyd</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A1587K</td>
<td>Hyd coupler .25 NPTF Poppet Check</td>
<td>x</td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>2</td>
<td>56591</td>
<td>Hose, 1/2&quot; x 42&quot; w/ F flare ends</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>3</td>
<td>56681</td>
<td>Gauge, 3000 PSI liquid filled</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>4</td>
<td>56682</td>
<td>Tee, -6 F flare/M flare/M flare</td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>5</td>
<td>56683</td>
<td>Union, -6 F flare/ 1/4 F NPTF</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>6</td>
<td>56684</td>
<td>Union, -6 F flare/ 1/4 M NPTF</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>7</td>
<td>56685</td>
<td>Union, -6 F flare/ 1/4 M NPTF</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

For use with Hydraulic System:

- IA = Insta-Act
- Cen Hyd = Central Hydraulic

To properly connect fittings, see next page
Hydraulic Fitting Connections

Do not use thread sealant/tape on hoses or fittings. These materials could damage the product.

For SAE O-ring fittings:
Using two wrenches, hold fitting body in position and tighten jam nut until the washer again contacts port face, then tighten an additional 1/8 to 1/4 turn to lock fitting into place.

For hydraulic fittings with flare ends:
Using two wrenches, hold the hose in position and tighten flare nut 1/8 to 1/4 turn beyond hand tight.
Insta-Act® Hydraulic Pump Pressure Test-Straight Blades

1. Lower blade to ground, place control in FLOAT mode, and fully collapse the lift cylinder. Check fluid level at fill plug.

2. Carefully disconnect the lift hose from the 90° fitting. Attach gauge with hose to fitting.

3. Route gauge near driver’s side plow headlamp and secure so gauge is visible from cab.

4. Activate the RAISE function and read pump relief pressure.

5. Pressure should be 1750 ± 50 PSI. Adjust pump pressure if necessary. To adjust pressure turn pump relief valve clockwise to increase pressure, or counterclockwise to decrease pressure. Do not adjust pressure setting more than 1/4 turn at a time. **Do not adjust relief valve while motor is running.**


<table>
<thead>
<tr>
<th>Plow Type</th>
<th>Pump Relief Valve Pressure (± 50 PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Models</td>
<td>1750</td>
</tr>
</tbody>
</table>
EZ-V® Insta-Act® Hydraulic Pump Pressure Test

1. Lower blade to ground and fully collapse the lift cylinder. Check fluid level at fill plug.

2. Disconnect the lift cylinder hose from the fitting attached to the secondary valve block. Attach gauge with hose to the fitting.

3. Route gauge near driver’s side headlamp and secure so gauge is visible from cab.

4. Activate RAISE function and read pump relief pressure.

5. Pressure should be 1750 ± 50 PSI. Adjust pump pressure if necessary. To adjust pressure turn pump relief valve clockwise to increase pressure, or counterclockwise to decrease pressure. Do not adjust pressure setting more than 1/4 turn at a time. Do not adjust relief valve while motor is running.


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</tbody>
</table>
SEHP Hydraulic Pump Pressure Test

1. Lower blade to ground and fully collapse the lift cylinder. Check fluid level at fill plug.

2. Carefully disconnect the 1/4" pipe plug from the cylinder test port in the housing above the manifold block. Be aware of possible residual pressure in the lift cylinder. Attach the Test Gauge Kit to the lift cylinder test port.

3. Route gauge near driver’s side plow headlamp and secure so gauge is visible from cab.

4. Activate RAISE function and read pump relief pressure on gauge when blade is fully raised.

5. Refer to the illustration below for pump relief valve screw and lift cylinder test port locations. The chart lists relief pressure settings. Adjusting pump relief valve clockwise 1/4 turn at a time will increase pump pressure approximately 225 psi.

   NOTE: Early 2-piece die-cast pumps may require removal to adjust.


<table>
<thead>
<tr>
<th>Plow Type</th>
<th>Pump Relief Valve Pressure (± 50 PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular, Heavy Duty</td>
<td>1750</td>
</tr>
<tr>
<td>Commercial</td>
<td>2100</td>
</tr>
<tr>
<td>Light Duty</td>
<td>1750</td>
</tr>
</tbody>
</table>
Belt Drive and Central Hydraulics
Pump Pressure Test

1. Lower blade to ground and check fluid level.

2. Remove hose quick disconnect to DS angle cylinder at vehicle grille (Minute Mount® attachments) or headgear (Conventional attachments). Connect pressure gauge with hose and appropriate disconnect fitting to mating vehicle side fitting.

3. Route hose and gauge near driver’s side plow headlamp and secure so gauge is visible from cab.

4. Start engine and move control to angle right and read gauge.

5. Verify that pump pressure is within system requirements.

Minute Mount® Configuration Shown
Electric Hydraulic Unit - EHP Pump Pressure Test

1. Lower blade to ground and fully collapse the lift cylinder. Check fluid level.

2. Disconnect hose to PS angle cylinder at the quick disconnect attached to the valve block.

3. Connect pressure gauge equipped with hose and appropriate disconnect to the PS disconnect in the valve block.

4. Route hose with gauge near DS headlamp and secure so gauge is visible from cab.

5. Move control lever to angle left and read pressure on gauge. If pressure is below 1600 psi, adjusting pump relief valve clockwise 1/4 turn will increase pump pressure approximately 225 psi.

NOTE: Early 2-piece die-cast pumps may require removal to adjust.

6. Refer to Electric Hydraulic Pak Mechanic’s Guides, Lit. No. 13492 for additional information.