IMPORTANT:
Read and follow all instructions and SAFETY PRECAUTIONS before using this equipment. Keep for future reference.

DESCRIPTION
All KB-II style cups are pressure regulated and have a 2.4 quart (77 oz.) capacity. They are designed to be attached to any manual spray gun with air and material hose. The cup may be carried in one hand using the comfortable hand grip or left on the floor while spraying. The KB-II's wide diameter and low profile provides a low center of gravity which increases stability and resists tipping. Models KB-555 and KB-545-SS include a 0-30 psi gauge. KB II cups are supplied with KK-5051 disposable cup liners (5 each) to reduce clean up time and cleaning solvent.

Pressure cups provide a greater degree of control over atomization air and material pressure than obtainable through use of suction feed equipment. Pressure cups also enable user to apply heavy or more viscous materials in small amounts where a 2 quart capacity is sufficient for the job.

INSTALLATION

1. Connect fluid hose (A) to fluid inlet of gun and outlet of cup (1) as shown. See Figure 1.
2. Connect atomization air hose (B) to air inlet of gun and outlet of cup (2) as shown. See Figure 1.
3. Connect air supply hose (C) to inlet coupling (3) on cup handle. See Figure 1.

NOTE

OPERATION

Risk of injury or equipment damage. Air pressure to the cup must never exceed 50 psi, (3.5 bar).

Mix and prepare the material to be sprayed according to manufacturer's instructions. Strain material through a 60 to 90 mesh screen or equivalent before spraying. Place KK-5051 disposable liner into cup. Refer to instructions provided with KK-5051.
SAFETY PRECAUTIONS
This manual contains important information that ALL users should know and understand BEFORE using the equipment. This information relates to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following terms to draw your attention to certain equipment labels and portions of this manual. Pay special attention to any label or information that is highlighted by one of these terms:

**CAUTION**
Important information that tells how to prevent damage to equipment, or how to avoid a situation that might cause minor injury.

**WARNING**
Important information to alert you to a situation that might cause serious injury if instructions are not followed.

**NOTE**
Information that you should pay special attention to.

The following hazards may occur during the normal use of this equipment. Please read the following chart.

<table>
<thead>
<tr>
<th>HAZARD</th>
<th>CAUSE</th>
<th>SAFEGUARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spray</td>
<td>Solvent and coatings can be highly flammable or combustible, especially when sprayed.</td>
<td>Adequate exhaust must be provided to keep air free of accumulations of flammable vapors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Smoking must never be allowed in the spray area.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fire extinguishing equipment must be present in the spray area.</td>
</tr>
<tr>
<td>Solvent Spray</td>
<td>During cleaning and flushing, solvents can be forcefully expelled from fluid and air passages. Some solvents can cause eye injury.</td>
<td>Wear eye protection.</td>
</tr>
<tr>
<td>Inhaling Toxic Substances</td>
<td>Certain materials may be harmful if inhaled, or if there is contact with the skin.</td>
<td>Follow the requirements of the Safety Data Sheet supplied by your coating material manufacturer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adequate exhaust must be provided to keep the air free of accumulations of toxic materials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use a mask or respirator whenever there is a chance of inhaling sprayed materials and its concentration. Equipment must be as prescribed by an industrial hygienist or safety expert, and be NIOSH approved.</td>
</tr>
<tr>
<td>Explosion Hazard-Incompatible Materials</td>
<td>KB-545-SS is stainless steel and can be used with Halogenated Hydrocarbons.</td>
<td>Read the label or data sheet for the material you intend to spray.</td>
</tr>
<tr>
<td></td>
<td>KB-555 is aluminum. Solvents such as 1, 1, 1- Trichloroethane and Methylene Chloride (sometimes called methyl chloride) can chemically react with the aluminum used in most spray equipment, and these cups, to produce an explosion hazard.</td>
<td>Do not use any type of spray coating material containing these solvents with KB-555.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Do not use these solvents for equipment cleaning or flushing with the KB-555.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If in doubt as to whether a material is compatible, contact your material suppliers.</td>
</tr>
</tbody>
</table>

**NOTE**
Information that you should pay special attention to.
Description of Controls (Ref. Fig. 2, page 5)

Regulator Assembly (15) - Controls pressure on material in cup.
Pressure Bleed Down Valve (6) - Allows air to be bled from cup.

To reduce pressure in cup, turn knob of regulator assembly counterclockwise. Bleed off excess air by momentarily turning pressure relief valve (6) counterclockwise. Readjust pressure by turning knob of regulator (24) assembly clockwise. Turning regulator all the way out shuts off air supply to the cup.

NOTE

Turn pressure bleed valve (6) counterclockwise to vent air from the cup; it is important to do this before removing lid.

1. Place lid on cup. Grasp lid handle and push down with one hand and tighten retaining ring (1) with other hand.
2. Turn regulator knob (24) out (counterclockwise) until no spring pressure is felt.
3. Close pressure bleed valve (6) by turning it in all the way clockwise.
4. Set air supply pressure at approximately 50-60 pounds at regulator.
5. Set material pressure at 10 pounds by turning in regulator knob and reading the gauge. Make sure fluid adjusting screw on spray gun is open (turned out counterclockwise) until first thread shows.
6. Test for amount of paint in relation to the speed at which you want to spray. If too much paint is coming out or atomized particle size of paint is too large, follow one of the procedures below.
   A. Turn regulator knob counterclockwise until gauge shows lower pressure. Bleed off excessive air in cup by turning pressure bleed valve (6) counterclockwise.
   B. Raise air pressure at regulator until well defined atomized pattern of paint is evident. This increases air pressure to spray gun while maintaining same pressure in the cup.

PREVENTIVE MAINTENANCE

CAUTION

Always relieve pressure in cup before removing lid by turning bleed valve out.

NOTE

Do not thread the pressure bleed valve (6) all the way, as it may fall out and be lost.

Cleaning

CAUTION

Do not wash the lid assembly in a gun washer. The safety valve, gauge and regulator contain parts that will be damaged. The cup only can be washed in a gun washer.

Use of the KK-5051 disposable cup liner will significantly reduce cleaning time and solvent use. Another accessory item, KK-5052 Adapter and Hose Kit, can also be used in conjunction with the Solvent Saver™ to save further time and solvent cleaning the fluid passages of the tube, hose, and spray gun. See Accessories page 4.

Grapslid handle and push down with one hand and turn the retaining ring (1) counterclockwise with the other hand. Pour out any remaining material and add a suitable solvent. Wipe cup with a solvent soaked cloth.

Check Valve

If contaminated, carefully remove check valve (12) from lid. Soak in suitable solvent. If damaged, replace. Do not torque to more than 10 in. lbs.

PROBLEM | CAUSE | CORRECTION
--- | --- | ---
Insufficient pressure in cup. | Safety valve (14) leaking. Check valve (12) stuck shut. Gauge (8) registering incorrectly. Leak at cup lid (11) threads. | Replace. Clean or replace. Replace. Tighten cup or replace gasket (9) or slip ring (2).

TRoubleshooting Chart

Safety Valve, Regulator, Pressure Gauge

WARNING

The safety valve limits the maximum air pressure. If the safety valve does not work properly, over pressurization may occur and cause the cup to rupture or explode. Occasionally pull the ring on the safety valve and make sure it operates freely. If the valve is stuck or does not operate smoothly, it must be replaced with a valve having the same rating. Never attempt to adjust or disassemble the safety valve.

The safety valve (14) is factory set at approximately 55 lbs. Never disassemble. If damaged, replace. Never submerge in solvents.

Regulator Disassembly
1. Pull the knob on the bonnet outward to unlock regulator knob.
2. Turn the knob counterclockwise to stop.
3. Remove bonnet (24) by turning it counterclockwise. Use pliers if necessary.
4. Remove adjusting screw and nut, regulating spring, slip ring and diaphragm.
5. Use a wide blade screwdriver and turn valve seat (18) counterclockwise to remove along with o-ring.
6. Carefully remove valve (17) and valve spring (16).

Regulator Reassembly
1. Place valve spring (16) into center hole of cast housing. Place valve (17) on the spring (16).
2. Use a wide blade screwdriverand valve seat and o-ring assembly (18) to 4-6 in. lbs. torque.
3. Place diaphragm (19) on the valve seat. Diaphragm tube must slide freely through valve seat after valve seat is torqued into the body.
4. Place slip ring (20) on inside shoulder of bonnet (24).
5. Place adjusting screw (23), nut (22) and regulating spring (21) into bonnet (24).
6. Tighten bonnet assembly (24) to 65-75 in. lbs. torque.
### PARTS LIST

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>Replacement Part No.</th>
<th>Description</th>
<th>Ind. Parts Req.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>KB-64</td>
<td>Retaining Ring</td>
<td>1</td>
</tr>
<tr>
<td>#2</td>
<td>KB-81-K5</td>
<td>Slip Ring (Kit of 5)</td>
<td>1</td>
</tr>
<tr>
<td>*3</td>
<td>KB-74</td>
<td>Handle - Secondary</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>---</td>
<td>Nut 5/16&quot;-18 (purchase locally)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>P-MB-51</td>
<td>Adapter</td>
<td>2</td>
</tr>
<tr>
<td>#6</td>
<td>KB-66</td>
<td>Pressure Bleed Valve (For KB-555)</td>
<td>1</td>
</tr>
<tr>
<td>#</td>
<td>KB-95</td>
<td>Pressure Bleed Valve (For KB-545-SS)</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>KB-70</td>
<td>Lid w/handle (For KB-555)</td>
<td>1</td>
</tr>
<tr>
<td>KB-93</td>
<td>Lid w/handle (For KB-545-SS)</td>
<td>1</td>
<td></td>
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<tr>
<td>8</td>
<td>GA-355</td>
<td>Pressure Gauge 0-30 psi</td>
<td>1</td>
</tr>
<tr>
<td>#9</td>
<td>KB-80-K5</td>
<td>Gasket (Kit of 5)</td>
<td>1</td>
</tr>
<tr>
<td>+10</td>
<td>MBK-11-K5</td>
<td>Locknut (For KB-555, Kit of 5)</td>
<td>1</td>
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<tr>
<td>KB-97-K2</td>
<td>Locknut (For KB-545-SS, Kit of 2)</td>
<td>1</td>
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<tr>
<td>11</td>
<td>KB-422</td>
<td>2 qt. cup (For KB-555)</td>
<td>1</td>
</tr>
<tr>
<td>KB-442</td>
<td>2 qt. cup (For KB-545-SS)</td>
<td>1</td>
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<tr>
<td>12</td>
<td>KB-432-K3</td>
<td>Check Valve (Kit of 3)</td>
<td>1</td>
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<tr>
<td>#13</td>
<td>KB-85-K5</td>
<td>Gasket (Kit of 5)</td>
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<tr>
<td>14</td>
<td>TIA-4355</td>
<td>Safety Valve</td>
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<tr>
<td>KB-428-1</td>
<td>Regulator Kit</td>
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<tr>
<td>+16</td>
<td>---</td>
<td>Valve Spring</td>
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<tr>
<td>+17</td>
<td>---</td>
<td>Valve, PTFE</td>
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<tr>
<td>+18</td>
<td>---</td>
<td>Valve Seat and O-Ring Assembly</td>
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<tr>
<td>+19</td>
<td>---</td>
<td>Diaphragm, PTFE protected</td>
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<tr>
<td>+20</td>
<td>---</td>
<td>Slip Ring</td>
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</tr>
<tr>
<td>+21</td>
<td>---</td>
<td>Regulator Spring</td>
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</tr>
<tr>
<td>+22</td>
<td>---</td>
<td>Nut</td>
<td>1</td>
</tr>
<tr>
<td>+23</td>
<td>---</td>
<td>Adjusting Screw</td>
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</tr>
<tr>
<td>+24</td>
<td>---</td>
<td>Bonnet</td>
<td>1</td>
</tr>
<tr>
<td>+25</td>
<td>KB-60-K6</td>
<td>Gasket (Kit of 6)</td>
<td>1</td>
</tr>
<tr>
<td>+26</td>
<td>---</td>
<td>Fluid Tube Assembly</td>
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</tr>
<tr>
<td>27</td>
<td>KK-4997</td>
<td>Fluid Tube Kit - (Aluminum For KB-555)</td>
<td>1</td>
</tr>
<tr>
<td>KK-4996</td>
<td>Fluid Tube Kit - (Stainless Steel For KB-545-SS)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

- These parts are included in the Regulator Kit KB-428-1.
- Recommended Spare Parts and KB-428-1 Regulator Kit.
- A secondary handle (3) has been provided with each cup. May be used for “Belt Hanging”.
- These parts are included in Ref. No. 267, Fluid Tube Kit.
- Apply thread sealant (i.e. Loctite #242 medium strength blue or equal) unto threads.

![Diagram of parts with numbers and callouts]
ACCESSORIES

**HAV-500 OR HAV-501 Adjusting Valve**  
(HAV-501 SHOWN)  
HAV-500 does not have pressure gage. Use to control air usage at gun.

**HARG-510 Air Regulator**  
Use to maintain nearly constant outlet pressure despite changes in inlet pressure and downstream flow.

These brushes are helpful in cleaning threads and recesses of gun body.

**P-H-5516 Air Adjusting Valve**  
Enables user to control and reduce air usage at the gun. Ideal for low pressure spraying.

**WR-103 Wrench**  
Contains all necessary tip, hose and nut sizes used on or with gun.

**192218 Scrubs® Hand Cleaner Towels**  
(DeVilbiss Automotive Refinishing)  
29-3100 Scrubs® Hand Cleaner Towels  
(Binks – Industrial)  
Scrubs® are a pre-moistened hand cleaner towel for painters. No water is needed.

**KK-5052 ADAPTER FITTING and HOSE KIT**  
Allows flushing of cup tube, hose and gun using SolventSaver™. Kit includes: HD-410 adapter fitting and 2' hose assembly.

**KK-5051 Disposable Cup Liner**  
Keeps cup and lid isolated from paint reducing clean up time and solvent. Kit includes:  
20 liners  
20 lids  
3 rings

**SSL-10 Spray Gun Lube**  
(DeVilbiss Automotive Refinishing)  
20 oz. Bottle  
Compatible with all paint materials: contains no silicone or petroleum distillates to contaminate paint. SDS available upon request.

**KB-4006 6 ft. Hose Assembly**  
Includes 6 ft. air hose and 6 ft. fluid hose and connections.
WARRANTY POLICY

DeVilbiss products are covered by Carlisle Fluid Technologies one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. For specific warranty information please contact the closest Carlisle Fluid Technologies location listed below.

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