

## OPERATING MANUAL

### SPB 30, 40, 60 and 90 LB CLASS PAVING BREAKER

#### **OPERATING AIR PRESSURE**

Air pressure should be between 90 to 100 psig (6 bar) at the tool for proper operation. Using the tools at higher pressure will increase vibration to the operator, decrease performance and output, and may cause premature damage to the tool and steel. It is important to note that using long lead hoses, manifolds and leaking and worn hose connections in the air line can cause a pressure drop. Use proper couplings and fittings and proper diameter hose for the type of tool being used. Consult factory for calculating pressure drop data.

#### **COMPRESSOR**

Use an air compressor with sufficient CFM delivery to operate the tool(s) at a pressure of 90 to 100 PSI (6 bar) maximum at the tool.

See individual specification chart for CFM requirements.

#### **AIR HOSE CONNECTION**

Always inspect air hoses, fittings and gaskets for cuts, abrasions and wear. Check that fittings, on the tool and on the hose, are secure. Be sure to use safety clips and whip check cables to secure the hose and couplings to help prevent hose whipping. Always clear hoses of debris and excess water before attaching them to the tool. We recommend installing all auxiliary safety devices, including whip checks, safety clips, excessive Flow Check Valves and be in compliance with OSHA 1926.302(b)(7) Please read Sullivan-Palatek General Air Tool Safety brochure and consult Pneumatic Tool Safety Manual from the **Association of Equipment Manufacturers** at [www.aem.org](http://www.aem.org)

#### **RECOMMENDED LUBRICATION**

Sullivan-Palatek Paving Breakers require minimal lubrication under normal operating conditions. Oil carry-over from the compressor will not normally provide sufficient lubrication. The use of an external line lubricator at the end of a whip hose attached to the tool is recommended. P/N 05019902 0001 6' whip hose with pressure feed 11oz. line oiler for proper operation. A slight mist of moisture/oil at the tool exhaust and on the shank of the steel, is a sign of adequate tool lubrication. The SPB 90, 60 and 30 lb breakers have a built in oil reservoir which should carry a full shift capacity when proper air pressure and viscosity oil is used. Always fill before using. Standard tool oil of ISO VG 100 is recommended for normal ambient temperatures. Sullivan offers Bio Tool Oil for all their tools, ISO 100 is recommended for breakers, it is American made from Soy and Canola beans, a renewable source, farm grown and formulated with Antiwear/EP, rust and oxidation inhibitors for superior protection of pneumatic tools. P/N SI9017 ISO 100 Bio Tool Oil, 1 QT. Since this internal device is venturi operated, pressure, temperature and oil viscosity can vary operation time. Grease should be applied to the shank of the steel to help prevent early wear. The SPB 40 does not have in internal Oiler and requires an external whip with oiler.



**FOLLOW ALL SAFETY PRACTICES  
USE PROPER LUBRICATION**



**UNPACKING**

1. Visually inspect the tool for any signs of damage during shipment.
2. The Serial Number is on the box and is stamped in the tool and on serial plate.
3. Keep a copy of the packing slip or invoice for proof of purchase date in the event of return or Warranty.

**BEFORE START-UP AND BEFORE EACH USE**

1. Check all threaded fasteners and fittings for tightness.
2. For first running and especially if the tool has been in stock for a lengthy time it is a good idea to put tool oil in the air inlet before operating the tool, connect hose to the tool and begin work. You must fill oil reservoir before using, no oil is shipped in tool.
3. Installing Steel
  - Be sure to use steel with same shank type as the tool.
  - Check steel shank for wear. A worn shank or an uneven top end may result in damage to the tool or steel breakage.
  - Check the cutting edge of bits for sharpness. Inspect steel for nicks or cracks which could cause breakage. Always use sharp, or properly sharpened steels, dull steel will transfer impact force to the tool causing damage to the tool and increased vibration to the operator.
4. Connecting the Air Hose.
  - Use only air hose with a rated capacity equal to a minimum of 150% of the air compressor and with couplings secured by approved clamps.
  - Always blow out hoses to clean and to remove any dirt, stones, water and oil before attaching to the tool.
  - Check rubber gaskets or washers in hose couplings for wear or cracks.
  - Always connect couplings properly and secure with approved safety clips and whip checks.
  - The use of suitable whip hose and oiler of proper length may decrease operator effort and prolong tool life.

**STARTING & OPERATING**

1. DO NOT run the tool without proper steel installed in the tool and the retainer locked in place.
2. DO NOT run the tool without the cutting edge (point) firmly against the work surface.
3. DO NOT allow the tool to free run or dry fire, always keep tool on the work.
4. Always apply sufficient down pressure to keep the tool from bouncing or skipping. The proper amount of down pressure may vary depending on the material being worked and the type of steel being used. Moil points, chisels or asphalt cutting blades work differently and with varying weight of tools, this requires skill and application knowledge.
5. DO NOT allow the tool to bounce as this may damage the tool and steel.

## TIPS TO KEEP THE TOOL OPERATING EFFICIENTLY

1. Use only correct steels with sharp cutting edges.
2. Select a cutting or breaking edge most suited to the material and application needed.
3. Begin close enough to the open end of the work surface so that the breaking effect of the blade or point will cause the material being worked to break or flake away from the mass. Working from the edge back to center should eliminate or help prevent the steel from becoming stuck.
4. Use proper down pressure to keep the cutting edge working into the material.

## CARE AFTER EACH USE

1. Be sure to turn off compressor discharge valve and allow the downstream vent to release all air pressure from the hose before disconnecting air hoses. Re-check by teasing throttle on tool. Be sure not to allow dirt or water to enter air inlet of tool.
2. Pour a little recommended oil (1 ounce approximately) into the air inlet and tease throttle for a second before putting away, repeat 1. Re-check torque on backhead bolts and check siderod bolts for proper tightness, see service tips below.
3. Store tool well-oiled and upright in a safe dry place.

By following these suggestions, you can insure your tool will give you the type of service for which it was designed. If you have any questions concerning this information and the operation of your tool, please contact your Sullivan-Palatek Distributor or Sullivan-Palatek by email at [info@palatek.com](mailto:info@palatek.com) or Phone at 1 219 874 2497, 1 800 438 6203 or fax 1 219 872 5043.

## QUICK SERVICE TIPS:

**Backhead bolts;** On 60 and 90's tighten evenly by alternating bolts, to 75 ft. lbs.

On 30 and 40's tighten evenly by alternating bolts, to 55 ft. lbs.

**Side rod bolts;** On 90, tighten side rod nuts evenly to show approximately 2 to 3 threads on bolt. On 60, bolt end and nut should be flush. Springs should be even and not fully compressed.

## ACCESSORIES:

See Accessory guide and price sheet for details.

-50' x  $\frac{3}{4}$ " Hose with crimped on 2 lug fittings (250 psi rated yellow Novaflex).

-6'  $\frac{3}{4}$ " Whip Hose with 11oz. pressure feed line oiler with 2 lug fittings.

-BIO-OIL Paving Breakers ISO 100 1qt. SI9017

-Hose Couplings:

2 lug x  $\frac{3}{4}$ " FNPT for 185's and breakers

2 lug x  $\frac{3}{4}$ " MNPT for 375's

Whip Check safety cables

Gaskets for 2 lug fittings (bag of 50)

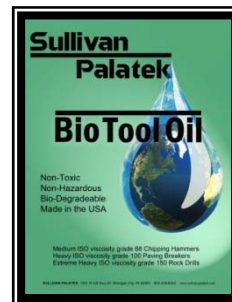
### Service Kits:

-Retainer Repair Kit for 90, 60 and 40 lb breakers

-Side Rod Bolt Kit for 60lb Breaker

-Side Rod Bolt Kit for 90lb Breaker

-Line Oilers



**TROUBLE SHOOTING GUIDE**

SPB 30, 40, 60 and 90 LB CLASS PAVING BREAKERS



**FOLLOW ALL SAFETY PRECAUTIONS USE  
PROPER LUBRICATION**



TROUBLE	PROBABLE CAUSE	SOLUTION
Tool Runs Sluggishly	Low air pressure at tool	Increase pressure to 90-100 PSI (620 to 689kPa) 6 bar
	Insufficient air flow (CFM)	Check hoses for leaks or blockage.
	Automatic valve clogged	Flush tool with mixture of oil and non flammable parts cleaner.
	Insufficient lubrication of air	Add a small amount of 100 ISO tool oil into inlet of tool. Use a pressure feed line oiler (see S-P accessories). Keep built-in oiler full of proper wt. oil. P/N SI9017 ISO 100 Bio Tool Oil
	Excessive moisture in air	Install adequately sized moisture separator in air line between tool and compressed air tank. Drain air tanks and air piping regularly.
Tool Runs Erratically	OSHA Valve nuisance tripping	Inspect valve for proper sizing and function.
	Foreign material in tool inlet	Remove Foreign Material, clean screen.
	Improper tightening of handle to cylinder	Check handle bolts are equally and correctly torqued to the recommended 100 ft. lbs.
	Automatic valve sticking	Flush Tool With Mixture of Oil and kerosene. Reduce Amount of Oil/Moisture to Tool
	Front bushing or steel shank worn	Check for wear in steel bushing on hammer (in nose) or on steel shank and replace if necessary
Tool Will Not Run (Air Blows thru Exhaust)	Automatic valve stuck	Flush Tool with Mixture of Oil and kerosene of non-flammable cleaning fluid.
Tool Continues to Run (Does Not Shut Off)	Throttle valve stuck	Flush Tool with Mixture of Oil and kerosene of non-flammable cleaning fluid, oil lightly.
	Damaged throttle valve or "O" rings or missing "O" rings	Replace defective or missing parts.
	Throttle valve broken	Replace defective or missing parts.
Excessive Recoil	Air pressure too high at tool	Reduce pressure to 90-100 PSI (620 to 689kPa) 6 bar
	Dull cutting edge on steel	Replace with Sharp Steel
Excessive Breakage of Retainer Latch	Collar of steel striking retainer	Exert sufficient down pressure to keep point against work surface.
	Air pressure tool high at tool	Reduce Pressure to 90 to 100 PSIG (620 to 689kPa) 6 bar
Rapid Wearing of Retainer	Collar of steel striking retainer	Exert sufficient down pressure to keep point against work surface. (dry-fire or free-running)
Steel Will not Fit Bushing	Steel shank does not match bushing	Use Steel with correct shank
Steel Will not Fit Retainer	Steel shank does not match bushing	Use Steel with correct shank. Some round and HD steel may have large diameter shaft.

If the suggested remedies fail to correct problem, disassembly and inspection must be performed to determine cause.



## General Air Tool safety



1. Remember, Compressed Air can be Dangerous.
2. ALWAYS check that the compressor is set at the correct pressure. Construction Pneumatic tools are designed to work at 90 psi (100psi max)
3. Before use, ALWAYS be sure that the tools and hoses are in good condition, and that the couplings are properly secured.
4. Before connecting the air hose to the tool, ALWAYS safely blow out the hose, this will ensure there is no debris or water inside the hose.
5. Always utilize proper Personal Protection Gear: Gloves, Safety Glasses, Hard Hat, Ear Plugs, Protective Shoes or Boots.
6. We recommend installing all auxiliary safety devices, including whip checks, safety clips, excessive Flow Check Valves and be in compliance with OSHA 1926.302(b)(7)
7. Be sure tools receive proper lubrication and all steel is secured in tool, in good condition and always sharp.
8. DO NOT play with compressed air, and DO NOT use compressed air to blow dust off your clothes.
9. DO NOT use Diesel Fuel as a lubricant, cleaning or de-icing fluid.
10. Prolonged use of any vibrating tools can cause hand and arm damage, use them carefully and wisely.



A complete Pneumatic Tool Safety Manual is available from the Association of Equipment Manufacturers.

[www.aem.org](http://www.aem.org)

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## PNEUMATIC TOOL WARRANTY

### Warranty

SULLIVAN-PALATEK warrants that its tools, equipment and parts are free from defects in material and workmanship for a period of one year from the purchase date. SULLIVAN-PALATEK makes no other warranty expressed or implied. Warranty shall not be effective unless SULLIVAN-PALATEK receives the nonconforming product from the purchaser shipped freight prepaid, and received within the allowed time period. Warranty shall not apply to any SULLIVAN-PALATEK products which have been altered, modified or operated out of the working parameters for the products. SULLIVAN-PALATEK shall not in any event be liable for the cost of any special, indirect or consequential damages to anything or anyone. The purchaser's exclusive and sole remedy for breach of contract, luding breach of any expressed or implied warranty other than the above, shall be limited to repair, modification, or replacement, at the discretion of SULLIVAN-PALATEK, of the nonconforming product.

1. Prices listed within our latest published list are subject to change without notice.
2. Payment terms are net 30 days with proper credit substantiation and payment record.
3. Deliveries will be made per customer specifications, all shipments are F.O.B. factory.
4. Minimum orders of less than \$40.00 net will not be allowed discount.
5. Return of goods must be accompanied by a SULLIVAN-PALATEK authorization number and will be subject to a 15% restocking charge.
6. Ordering procedures require the use of SULLIVAN-PALATEK part numbers and tool models.

For questions or inquiries please contact the factory by phone or email

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