



HPS Series Pistol Grip Trigger Start Positive Clutch User Manual

Pneumatic Screwdriver Product Description

A pneumatic screwdriver or nutrunner is a compressed air powered tool that is used to tighten or loosen screws, bolts, nuts, or other threaded fasteners. Do not use this tool for any other purpose.

Pneumatic Screwdriver Safety Instructions

1. Always install, operate, inspect, and maintain this screwdriver in accordance to any applicable local, state, or national regulations and standards.
2. Be sure all hoses and fittings are the correct size and are tightly secured.
3. Do not use damaged, deteriorated, or frayed air hoses or fittings.
4. Ensure that an emergency shut off valve is installed in an easily accessible location.
5. Stay clear of whipping air hoses. Shut the air supply off before approaching a whipping hose.
6. Keep the work area clean, uncluttered, well ventilated, and properly illuminated.
7. Keep hands, loose clothing, long hair, and jewelry away from the bit or socket.
8. Never drag or carry the tool by the air hose.
9. When using angle tools be aware of pinch points caused by possible torque reaction during run down and at shut off.

Pneumatic Tool General Instructions

AIR SUPPLY

1. Air tools are adversely affected by moisture and dirt. Since air from air compressors can contain moisture and rust, it is desirable to provide a filter and lubricator in the pipeline to remove such elements.
2. When installing a new air hose or air pipe, blow air through the hose or pipe to clean it before connecting the tool.
3. When using an air hose or air pipe which has been idle for any length of time, blow air through the hose or pipe to clean it before connecting the tool.
4. When disconnecting an air tool from an air hose, do not drop the hose onto the floor. This will prevent debris from contaminating the tool the next time the tool is connected.
5. Use an air regulator to maintain a stable air pressure of 85 psi at the tool.
6. Drain any water from the system at the beginning and at the end of each day of operation.
7. Make sure the air pressure is set properly before setting the clutch.

LUBRICATION

Do not lubricate the tools with flammable or volatile liquids such as automatic transmission fluid, power steering fluid, jet fuel, diesel, or kerosene. Use only properly labeled air tool oil.

1. Proper lubrication is indispensable to air tools. The most ideal method is to install one lubricator per tool to automatically add oil to the air going into the tool.

ASG, Division of Jergens, Inc.

15700 S. Waterloo Road | Cleveland, OH 44110-3898
Phone: (888) 486-6163 | Fax: (216) 481-4519
Email: asginfo@asg-jergens.com | Web: www.asg-jergens.com



HPS Series Pistol Grip Trigger Start Positive Clutch User Manual

Pneumatic Tool General Instructions (Continued)

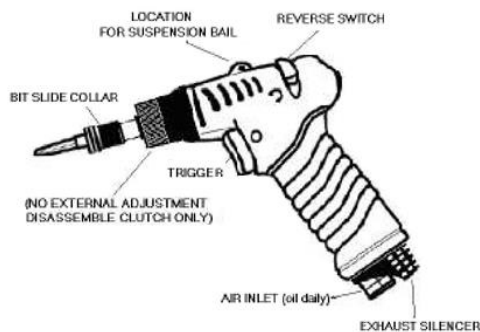
LUBRICATION (Continued)

- Manual lubrication: If an automatic lubricator is not available for each tool then the tools should be manually oiled twice each day. The tool should be oiled prior to the start of operation for the day and at the end of operations for the day.

At the start of operations one or two oz. of light machine oil or air tool oil should be poured into the air inlet of the tool. The tool should then be run with its exhaust directed into a rag or towel to prevent the oil mist from contaminating the work area or parts.

At the end of operations one or two oz. of light machine oil or air tool oil should be poured into the air inlet of the tool. The trigger (on trigger start or lever start tools) or the bit or spindle (on push to start tools) should be pressed briefly, just enough to get the oil into the motor of the tool. This way the oil will prevent any rust caused by moisture in the air from forming in the tool while it is idle. It will also absorb any other contamination and flush it out the next time the tool is used.

Operating Instructions



- Insert the proper driver bit by pulling BIT SLIDE COLLAR away from the tool body. Make sure the collar springs back to its original position to insure the bit is locked in spindle.
- There is no external adjustment on the HPS tools. The grooves on the front of the clutch housing are there to disassemble the clutch only.
- Use the REVERSE SWITCH to change the direction of rotation of the tool. Caution, do not shift the tool between forward and reverse while the tool is running. This may damage the air motor.
- Press the TRIGGER to start the tool. **Note:** This tool is a POSITIVE CLUTCH tool. The bit or socket will not rotate when the tool is run at idle (without the bit or socket in place on the fastener). The clutch faces are held apart by a spring. The torque output of this tool is a direct result of the force applied to the tool against the fastener while running. It is possible to vary the torque applied to the fastener during rundown by changing the amount of force you exert with the tool against the fastener.
- On pistol grip trigger start positive clutch tools do not attempt to connect air hose to top of tool or rear of tool. Use only the air inlet at the bottom of the pistol grip.

POSITIVE CLUTCH TOOL EXAMPLE #1 Driving a self-drilling or self-tapping fastener may require higher torque to start than is desired to seat the fastener.

SOLUTION #1 Press heavily on the tool as the fastener starts and relax the pressure exerted on the tool as the fastener runs down until the fastener is seated and the clutch "ratchets." This is something an operator will get the feel for.

ASG, Division of Jergens, Inc.





Pneumatic Tool General Instructions (Continued)

Operating Instructions (Continued)


POSITIVE CLUTCH TOOL EXAMPLE #2 Driving fasteners with a locking element may take a lower torque to start the fastener while a higher torque is required to continue to drive the fastener when the locking element is encountered.

SOLUTION #2 When the clutch starts to "ratchet" before the fastener is fully seated, increase the force you exert on the tool

Test result according to EN 792-6:2000

Model	Vibration EN 28662-1 and EN ISO 8662-7	Noise: prEN ISO 15744:99	 Safety Instructions Warning
		Sound Pressure Level	
HPS39	Load 1.1 m/s ²	73 db	Read this manual and understand all safety instructions before operating tools. Wear approved eye protection, ear protection, and gloves while operating tools. 
HPS48	Load 0.8 m/s ²	73.9 db	
HPS58	Load 0.1 m/s ²	75 db	

Removing or Installing Air Fittings From the Air Inlet of ASG H Series Air Tools

 **Caution!** When installing or removing air fittings, or air hoses, from the air inlet of any ASG H Series air tools always use either a 17MM wrench or an 11/16" wrench to hold the air inlet while tightening or loosening the fitting as shown in photo below.

If the air inlet is over tightened while installing a fitting or hose on pistol grip tools the composite housing can split. This type of damage will not be covered under warranty. If the air inlet is over tightened while installing a fitting or hose on inline tools the silencer can be damaged or the forward reverse valve can bind. This type of damage will not be covered under warranty.

If the air inlet is removed from inline push to start tools the cone spring and operating rod can fall out. Missing parts are not covered under warranty.

If the air inlet is removed from inline lever start tools the cone spring and ball can fall out. Missing parts are not covered under warranty.

