

## 400BGH3MK Horizontal Sander/Polisher Certificate of Conformity

We at: T.C. Service Co. Inc.  
38285 Pelton Rd.  
Willoughby, Ohio 44094  
U.S.A.

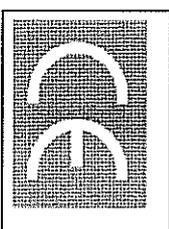
Declare under our sole

Responsibility that the product:

Machine Name: Horizontal Sander

Model Number: 400BGH3MK

Serial/Batch Number: 15004074



to which this declaration relates, is in conformity with the requirements of the Council Directive of 29 June 2006 on the approximation of the laws of the Member States relating to machinery (2006/42/EC)

Harmonized Standards Applied: : 89/292/EEC, EN-12096, EN-28662-1, ISO-8662-2, ISO-5349, EN-12366, ISO-11201, ISO-3744, ISO-4871, ISO-7574-1, ISO-7574-4, ISO-8662-2

National Standards Applied: ANSI B1861-1:1984

Name and Position of Issuer: Donald K. Kuhl  
Manager

Signature of Issuer: *Donald K. Kuhl*

Place and Date of Issue: Cleveland, OH USA - January 10, 2010

### Maintenance Instructions

#### WARNING!!!

- > Make sure you are familiar with the operating instructions before you use this machine.
- > This machine, its attachments and accessories must be used for the purpose for which they were designed.
- > Product liability and safety reasons prohibit any modifications to this machine.
- > Any attachments or accessories must be agreed in advance with an authorized representative of the manufacturer.
- > *To prevent personal injury and long time risks:*

- > Familiarize yourself with the enclosed leaflet "General Operators Instructions".
- > Before making any adjustments to the machine, e.g. changing an accessory, please ensure that the air supply is disconnected and the machine is safely isolated.
- > Inspect the tool retainer before attaching the new equipment.
- > The inserted tool equipment must be approved for the normal operation of the machine.
- > Check the condition of the inserted tooling at regular intervals and whenever the machine has been serviced.
- > Maintenance is to be carried out according to the service manual by authorized service personnel only.

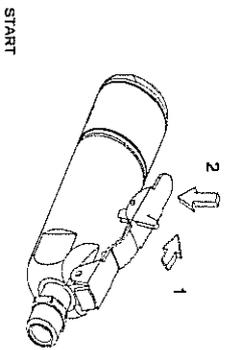
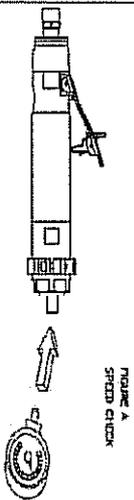
*Properly maintained air tools are less likely to fail or cause accidents. If tool vibrates unusually or produces an unusual sound, repair immediately.*

### LUBRICATION

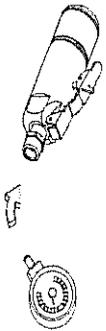
- > An air line filler-regulator-lubricator should be located as closely as possible to the tool.
  - > Clean out dirt and moisture from air hoses daily. Keep screen handle bushing in tool.
  - > OIL TOOLS DAILY. Mobil DTE Light or an equivalent is recommended. Pour about ½ oz. in air inlet and run tool to allow oil to be carried to interior.
- Additional safety information is available from the American National Standards Institute, Inc., 1430 Broadway, New York, N. Y. 10018(ANSI B186.1)*

### OVERHAUL

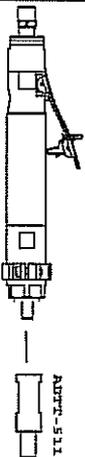
Twice a year at heavy duty operation and once a year at light duty operation respectively the machines should be dismantled for cleaning and maintenance of internal parts.



START



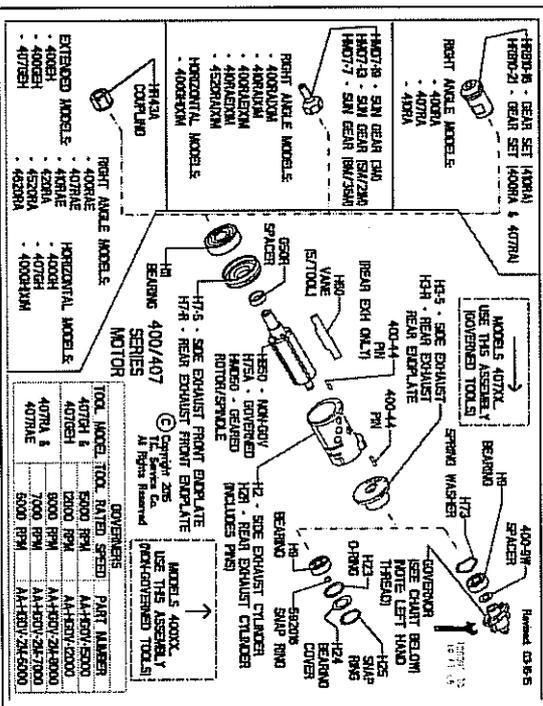
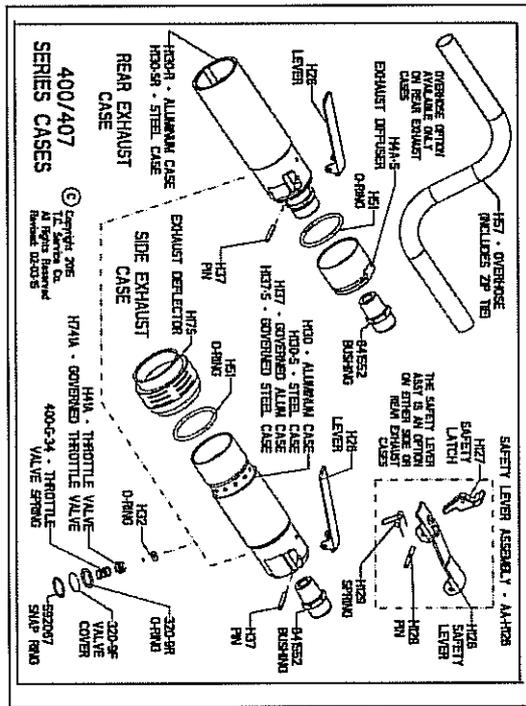
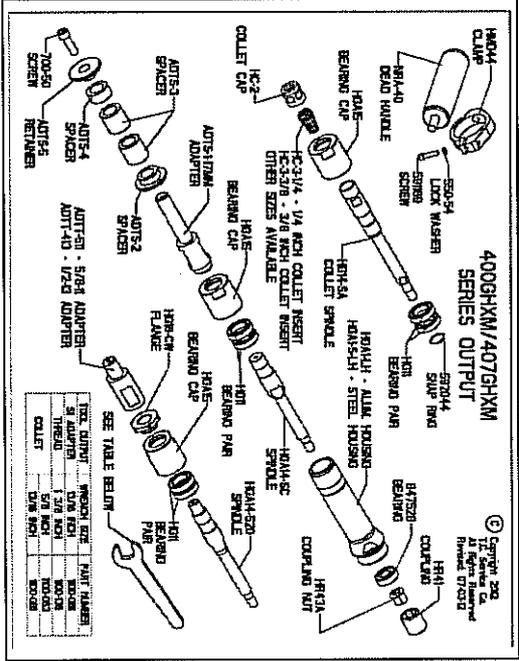
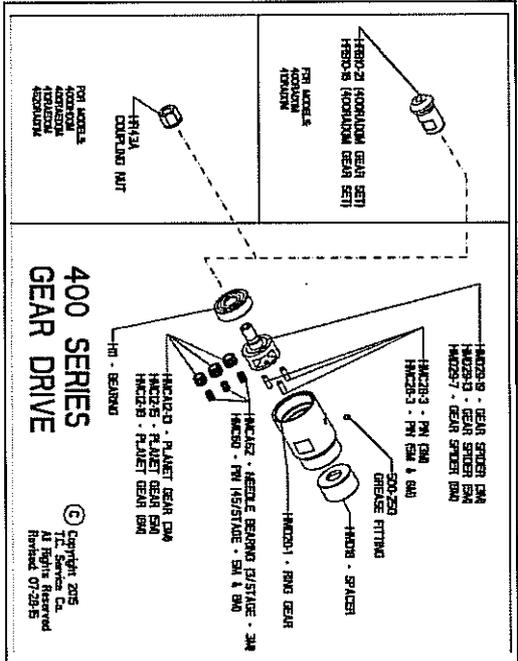
PRESSURE CHECK



MOUNTING

ATT-511

Model Number	Throttle Type	Operating Speed R.P.M.	Rated Power HP/W	Weight Lbs./kg	Overall Length in./mm	Air Consumption cfm/l/s	Sound Pressure Level db(A)	Sound Power Level db(A)	Vibration m/s
400BQH3AK	Safety Lever	5500	1.2 HP / 900 W	3.4 Lbs. / 1.5 kg	17.1 in. / 434 mm	35 cfm / 16.5 l/s	87 db(A) Uncertainty -4.0	98 db(A) Uncertainty -	> 2.5 m/s

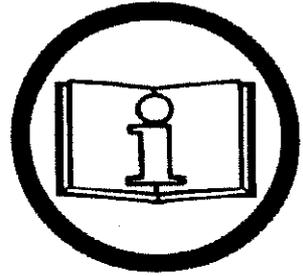


MODEL	TOOL	RATED SPEED	PART NUMBER
407A & 407B	407A	5000 RPM	AA-H50V-5000
407C	407C	6000 RPM	AA-H50V-6000
407D & 407E	407D	7000 RPM	AA-H50V-7000
407F	407F	8000 RPM	AA-H50V-8000
407G	407G	9000 RPM	AA-H50V-9000
407H	407H	10000 RPM	AA-H50V-10000
407I	407I	11000 RPM	AA-H50V-11000
407J	407J	12000 RPM	AA-H50V-12000
407K	407K	13000 RPM	AA-H50V-13000
407L	407L	14000 RPM	AA-H50V-14000
407M	407M	15000 RPM	AA-H50V-15000
407N	407N	16000 RPM	AA-H50V-16000
407O	407O	17000 RPM	AA-H50V-17000
407P	407P	18000 RPM	AA-H50V-18000
407Q	407Q	19000 RPM	AA-H50V-19000
407R	407R	20000 RPM	AA-H50V-20000
407S	407S	21000 RPM	AA-H50V-21000
407T	407T	22000 RPM	AA-H50V-22000
407U	407U	23000 RPM	AA-H50V-23000
407V	407V	24000 RPM	AA-H50V-24000
407W	407W	25000 RPM	AA-H50V-25000
407X	407X	26000 RPM	AA-H50V-26000
407Y	407Y	27000 RPM	AA-H50V-27000
407Z	407Z	28000 RPM	AA-H50V-28000
407AA	407AA	29000 RPM	AA-H50V-29000
407AB	407AB	30000 RPM	AA-H50V-30000
407AC	407AC	31000 RPM	AA-H50V-31000
407AD	407AD	32000 RPM	AA-H50V-32000
407AE	407AE	33000 RPM	AA-H50V-33000
407AF	407AF	34000 RPM	AA-H50V-34000
407AG	407AG	35000 RPM	AA-H50V-35000
407AH	407AH	36000 RPM	AA-H50V-36000
407AI	407AI	37000 RPM	AA-H50V-37000
407AJ	407AJ	38000 RPM	AA-H50V-38000
407AK	407AK	39000 RPM	AA-H50V-39000
407AL	407AL	40000 RPM	AA-H50V-40000
407AM	407AM	41000 RPM	AA-H50V-41000
407AN	407AN	42000 RPM	AA-H50V-42000
407AO	407AO	43000 RPM	AA-H50V-43000
407AP	407AP	44000 RPM	AA-H50V-44000
407AQ	407AQ	45000 RPM	AA-H50V-45000
407AR	407AR	46000 RPM	AA-H50V-46000
407AS	407AS	47000 RPM	AA-H50V-47000
407AT	407AT	48000 RPM	AA-H50V-48000
407AU	407AU	49000 RPM	AA-H50V-49000
407AV	407AV	50000 RPM	AA-H50V-50000



## **T.C. Service Co.**

Manufacturer of **Top Cat®** Pneumatic Tools  
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sales@tcservice.com • <http://www.tcservice.com>



### **EC Declaration of Conformity**

### **General Operator's Instructions**

### **Important Information for Safer Grinding**

This manual follows the EC Machinery Directive (2006/42/EC) regarding operator's instructions and relevant parts of standards from CEN TC 255 "Hand-held power driven non-electric tools - Safety". These instructions concern operation, handling of machines, inserted tool and equipment as well as maintenance. Neglect to follow these long established recommendations may cause serious hazards. Make sure the operator fully understands the following recommendations and has full access to them.

**Warning !!!!** Pay strict attention to following measures the operator must take in order to avoid risks of misuse or accident.

#### **Installation**

When lubrication is recommended - use recommended lubricants only. Check hose size and air pressure. The air pressure at the tool inlet with the grinder running shall not exceed the maximum operating pressure 90 psi (6.1 bar). Avoid risk of whipping hose - regularly check hose, hose fitting and clamp conditions. Check that the exhaust air is directed away to avoid blowing dust or air from the work piece onto the operator or other persons. When necessary, use exhaust hose and arrange for dust collection.

**Note:** Pneumatically driven power tools are not generally insulated against coming in contact with electric sources. *Explosive atmosphere must not be ignited* - to prevent injury and property loss from fire use other non-sparking process.

#### **Correct Use of Grinder**

Follow the information concerning intended applications and grinding wheels and accessories to be used in the maintenance instructions supplied with the machine.

#### **Avoid Misuse**

- Do not use abrasive wheels with lower maximum working speed than rated spindle speed
- Do not use circular saw blades or other cutters than the abrasive wheels or brushes specified
- Do not use the grinder without a wheel guard
- Do not attach bonded wheels to a sander without a wheel guard
- Do not side grind with cut-off wheels and straight wheels or with inside of cup wheels
- Use of this grinder for any purpose other than stated in these instructions is strictly forbidden
- Do not manipulate speed of grinder

**Note:** The tool must not be modified for product liability and safety reasons

#### **Avoid Accidents when using the machine**

#### **Potential Injuries:**

- Eye injuries due to sparks, chips or wheel (Always wear eye protection to prevent vision loss.)

- Cutting or severing
- Drawing in or trapping of loose hair and clothing
- Stored gas or fluid may cause a hazard
- Risk of a whipping compressed air hose
- Disintegrating abrasive wheel may cause even fatal injuries

Keep Wheel Guards:

- In place and correctly mounted
- In good condition and regularly inspected (*Do not use a wheel guard suspect to a wheel failure.*)

Grinding Wheels

Learn Proper Handling and Storing of Abrasive Wheels:

- Store and handle the abrasive product with care in accordance with the manufacturer's instructions
- Maximum operating speed marked on the wheel must be equal to or higher than the rated spindle speed
- Check wheel dimensions
- Inspect wheels before use (No cracked or chipped wheels shall be used.)
- Do not fit a wheel soaked in any fluid
- Fit on spindle shall be free, but not loose
- Attach wheel with flanges conforming to International standard and in good condition
- Flanges shall have flat contact surface and be without cracks and burrs
- Do not use unauthorized bushings or adapters to attach large hole abrasive wheels
- Use blotters when delivered with grinding wheels
- Do not mismatch wheel and spindle thread
- Spindle and spindle thread shall be without damage or wear
- Do not bottom spindle thread ends in cup or plug wheels with threaded insert - use a spacer
- Mount the wheel correctly and tighten to prescribed torque
- Test run every new wheel in a safe position for 30 seconds

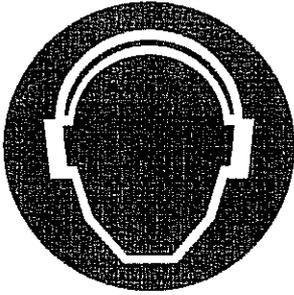
For Prolonged Life of Grinder

**Warning:** Overspend may cause grinding wheel disintegration

- Check spindle speed regularly with a tachometer
  - Note: Never measure spindle speed with abrasive wheel attached!!!***
- Free speed shall not exceed the rated speed marked on the tool
- Speed test intervals shall be determined based on the working environment and the compressed air quality (Use shorter intervals when conditions are unfavorable, dirty air, corrosive atmosphere and irregular lubrication. It is acceptable to use longer intervals when conditions are favorable.)

Correct Working with a Grinder

- Work piece shall be properly supported or fixed
- When cutting off, support work piece not to jam the wheel (Slot shall remain constant or become wider during operation.)
- If jamming the wheel during cutting off, shut off power and ease the wheel free (Check wheel for damage before continuing operation.)
- Ensure that sparks from the process do not create a hazard to eyes or will ignite the environment
- Special precautions shall be taken when working in explosive atmospheres
- Grinders shall not be used in potentially explosive atmospheres
- The operator must check that no bystanders are in the vicinity



- Personal protective equipment shall be used:  
*Always wear eye and hearing protection and when necessary, other personal safety equipment such as gloves, apron and helmet*



- Remember that there is a running on after the throttle has been released
- If a grinder fitted with an abrasive wheel is dropped, the wheel must be thoroughly examined before re-use
- Disconnect from power supply before servicing and changing of wheels
- Release control device in case of interruption of energy supply
- Ensure that guard is in place, in good condition, correctly mounted and regularly inspected
- Always keep the tool in a clean, dry place when not in use

For information regarding Sound Pressure, Sound Power and Vibration, see the spec chart of the maintenance instructions.

### Couplings

For information regarding the design and dimension of couplings, see the specific areas of the maintenance instructions listed below:

- Specification of couplings - parts list
- Specification of hoses with regard to pressure and flow - notes in spec chart
- Maximum flow - spec chart
- Maximum inlet pressure - notes in spec chart