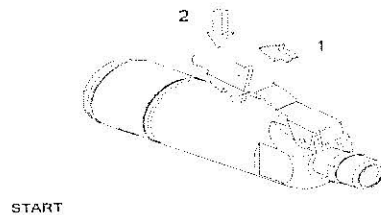
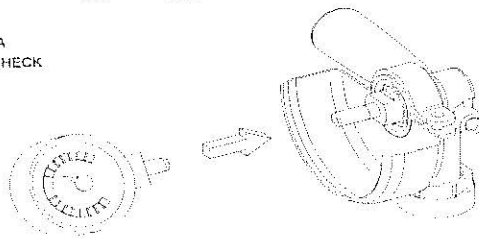


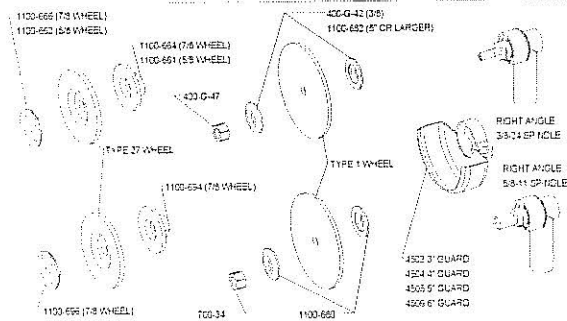
FIGURE A
SPEED CHECK



START



PRESSURE CHECK



Maintenance Instructions

WARNING!!!

- Make Sure you are familiar with the operating instructions before you use this machine.
- This machine, it's 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 technical representative of the manufacturer.
To prevent personal injury and long time risks:

- Familiarize yourself with the leaflet entitled "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 wheel guard before attaching the new equipment.
- The grinding equipment must be approved for the rated speed of the machine.
- Check the free speed of the machine at regular intervals and whenever the machine has been serviced. This check should be carried out with the grinding equipment detached. (See Figure A)
- The rated speed marked on the machine must not be exceeded. Adjustment of the speed 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. Do not disassemble governor. The governor is guaranteed for life of tool if not abused. Prior to reassemble inspect governor for gouges, nicks or dents.

LUBRICATION

- An air line filter-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 1/2 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

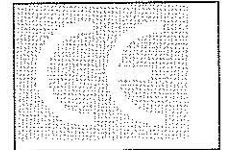
Twice a year at heavy duty operation and once a year at light duty operation respectively the machine should be dismantled for cleaning and maintenance of internal parts. (See figures on other side.)

Important: Be particularly careful of the governor assembly. Careless treatment may prevent it function correctly. Check that the governor is properly installed to avoid malfunction.

Always check the free speed of the machine after service.
(See Figure A)

**517HRAE Right Angle Grinder
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: Grinder

Model Number: 517HRAE2K

Serial/Batch Number: 14021910

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)

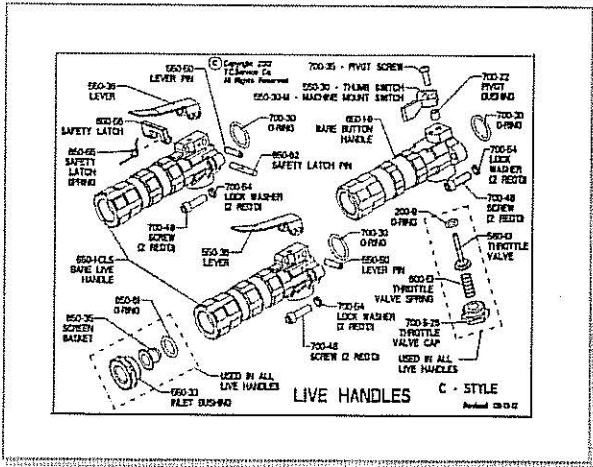
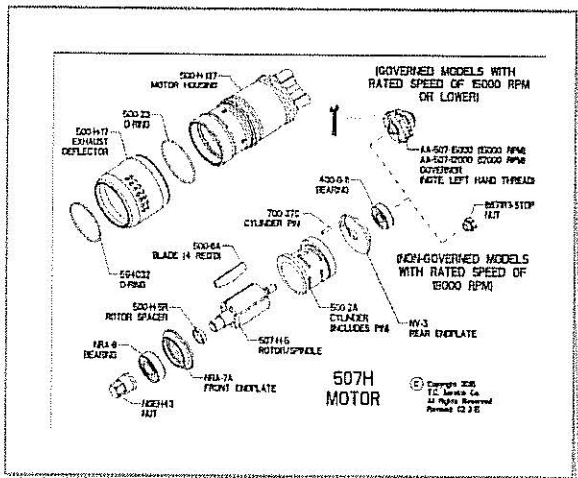
Harmonized Standards Applied: EN 792-7, EN 12096, EN 28662-1, ISO 8662-4, ISO 5349, EN 12366, ISO 11201, ISO 3744, ISO 4871, ISO 7574-1, ISO 7574-4, ISO 8662-4

Natio Standards Applied: ANSI B1861-1984

Name and Position of Issuer: Donald K. Kuhl
Manager

Signature of Issuer: *Donald K. Kuhl*

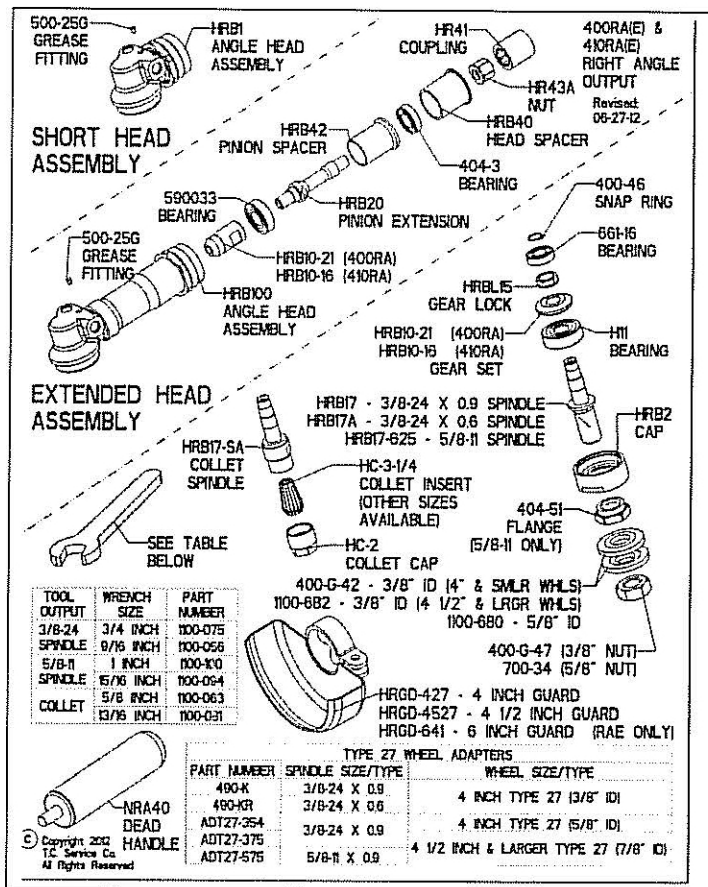
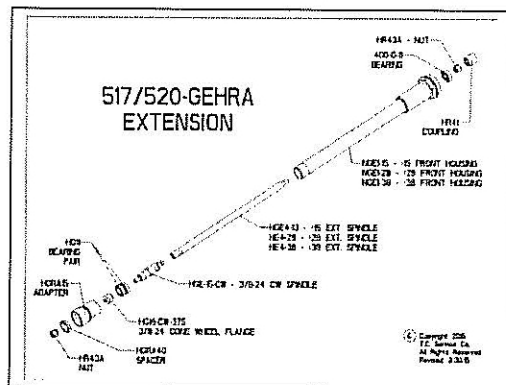
Place and Date of Issue: Cleveland, OH USA -
January 10, 2010



This tool is designed to operate on 90 psig. (6.2 bar) maximum air pressure with 1/2" (12.7 mm) hose.
Do not use a grinder without recommended wheel guard.

Do not use any wheel for which the listed operating speed is lower than actual free speed on grinder.

Model Number	Throttle Type	Operating Speed	Rated Power	Weight	Overall Length	Air Consumption	Sound Pressure Level	Sound Power Level	Vibration
517HRA E2K	Safety Lever	10000 R.P.M.	1.5 H.P. 1.2 KW	12.0 Lbs. 5.4Kg	23 Inches 584 mm	30 cfm 14.2 l/s	88 dB(A) Uncertainty - 3.8	98 dB(A) Uncertainty - 3.0	< 2.5 m/s



TOOL OUTPUT	WRENCH SIZE	PART NUMBER
3/8-24	3/4 INCH	100-075
SPINDLE	9/16 INCH	100-056
5/8-11	1 INCH	100-100
SPINDLE	15/16 INCH	100-064
COLLET	5/8 INCH	100-063
	13/16 INCH	100-031

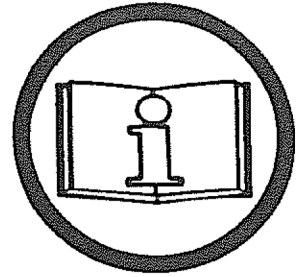


PART NUMBER	SPINDLE SIZE/TYPE	WHEEL SIZE/TYPE
400-K	3/8-24 X 0.9	4 INCH TYPE 27 (3/8" ID)
400-KR	3/8-24 X 0.6	4 INCH TYPE 27 (5/8" ID)
ADT27-354	3/8-24 X 0.9	4 INCH TYPE 27 (5/8" ID)
ADT27-375	3/8-24 X 0.9	4 INCH TYPE 27 (5/8" ID)
ADT27-575	5/8-11 X 0.9	4 1/2 INCH & LARGER TYPE 27 (7/8" ID)



T.C. Service Co.

Manufacturer of **Top Cat®** Pneumatic Tools
38285 Pelton Rd.
Willoughby, OH 44094 U.S.A.
(800) 321-6876 • (440) 954-7500
FAX (440) 954-7118
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 (89/392/EEC) 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

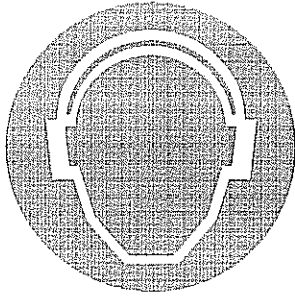
For Prolonged Life of Grinder

Warning: Overspend may cause grinding wheel disintegration

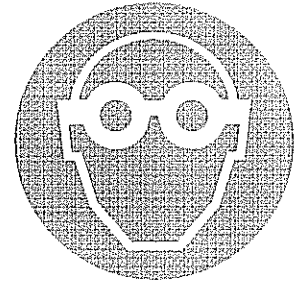
- Check spindle speed regularly with a tachometer
- Note: Never measure spindle speed with abrasive wheel attached!!!***
- Free speed shall not exceed the rated speed marked on the tool
 - Speed test intervals shall be determined based on the working environment and the compressed air quality (Use shorter 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