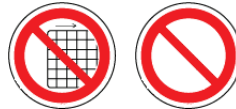


PFM 9.0 / 9.2 DRO SAFETY MANUAL



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Introduction:

Thank you for purchasing a Pro-Cut On Car Lathe. Your lathe should provide you with years of safe duty when properly used and maintained.

This is the safety and specification manual for the Pro-Cut PFM 9.0 and 9.2 models of On-Car Brake Lathe. This document as well as the accompanying Owner's Manual are to accompany all new 9.0 and 9.2 series lathes. Copies of these manuals can also be obtained by contacting your local Pro-Cut lathe distributor.

General:



This Safety Manual and the accompanying Owner's Manual should be kept in a safe place for future reference. They have been written for the lathe operators who must read and fully understand them before using the Pro-Cut lathes.

Reading and understanding of both of these manuals provides a minimum of training in the use of Pro-Cut On-Car Lathes. If you require further training, or re-training, please contact your local Pro-Cut Lathe distributor who will be happy to assist you with ongoing training needs.

Pro-Cut International and its associated distributors decline any responsibility for any breakdown, damage or injury caused by non-observance of the instructions contained within the Safety and Owner's Manuals.

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Symbol Descriptions:

GENERAL:



Danger: This yellow, bordered triangle indicates warnings to avoid actual or possible danger.



Prohibited: This red circle with a red crossbar indicates an action which must not be performed.



Obligatory: This solid blue circular field indicates an obligatory action, or information that must be read and understood.

SPECIFIC SYMBOLS:



General warning: This symbol indicates a warning about a general danger that the operator may encounter.



Electrical warning: This symbol indicates a warning about danger from electricity.



Toppling warning: This symbol indicates a warning about danger from an object moving under the force of gravity, possibly injuring those nearby.

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Limb entanglement warning: This symbol indicates a danger to limbs from entanglement in a rotating part.



Hair entanglement warning: This symbol indicates a danger from entanglement of long hair in a rotating part.



Finger warning: This symbol indicates a danger to fingers from entanglement or cutting in a rotating part.



Belt and finger warning: This symbol indicates a danger to fingers from moving belts.



Explosion warning: This symbol indicates a danger from an explosion of combustible materials.



Eye hazard warning: This symbol indicates that operator eyesight may be endangered by flying dust or debris.



No guard removal: This symbol indicates that guards or covers should not be removed.



Read and understand manuals: These symbols indicate that manuals and information must be read and understood before use.

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Safety glasses: This symbol indicates that protective eyewear must be worn by the operator.



Protective clothing: This symbol indicates that proper protective clothing must be worn by the operator.

Preliminary Warnings:



Do not operate the Pro-Cut Lathe without proper training.
This machine could become dangerous if used improperly.

Specific Safety Warnings Regarding the Use of Your Lathe:



Read and understand all manuals before using this machine. Failure to do so may cause harm, injury or death to operators or others.



Only trained maintenance staff should service this lathe. Improper service can lead to an increase in danger or harm, injury or death to the operator or others.



Do not use this machine below floor or grade level or in an atmosphere with any explosive gas. This machine creates electrical arcs and sparks and may cause an explosion.

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No loose clothing or hair. When turned on, this lathe has exposed rotating components. Long hair or loose clothing could become entangled and cause injury or death. Do not wear loose clothing or long hair when using this lathe.



Do not remove guards or covers. This lathe contains several guards and covers. These guards and covers are there to protect the operator from hazards underneath. Do not remove any guard or cover. Do not operate the lathe with any guard or cover removed. If the lathe requires service, contact authorized service personnel through your Pro-Cut distributor.



Use eye protection. During operation this lathe generates flying dust and debris. Do not use compressed air to clean the lathe as this can propel brake dust and create a hazard for the operator or those nearby. Safety glasses help protect your eyesight from these hazards.



Do not touch any moving part. Contact with rotating parts can cause many types of injury or even death. Keep all body parts clear of rotating parts. If you need to access something near a rotating part, switch off the lathe first.



Inspect all electrical connections before using lathe. Prior to using this lathe:

- Check that all cords are free from damage and that all insulation is intact. Do not use a cord with cut or damaged insulation.
- Replace cord if damaged.

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- Check that all cords are fully seated in their sockets.
- Seat cord firmly in socket if it is loose.
- Do not disable the machinery/earth grounding pin on the cord.
- Do not use with a wall socket without earth ground.
- Do not use any cord or adapter which would eliminate the connection to earth ground.
- **Electricity can kill!**



Use caution when moving the lathe and trolley around the shop.

Your shop area should be level and free of obstruction. Move the lathe and trolley slowly, being certain not to jam the wheels on such things as hoses, cords or open grates. Do keep all vehicle adapters attached to the base of your trolley when not in use. Do put the lathe in the lowest position prior to moving it around the shop. Do not use in a shop without a smooth, level floor surface. If the lathe topples it can cause property damage or injury, possibly death.



Never use lathe without the accompanying trolley. The lathe and trolley are a unified system. The trolley is designed to safely support your lathe and to prevent it from rotating during the cutting procedure. Use of a lathe without the accompanying trolley can cause harm to the equipment, the operator or those nearby.



Always use the lathe on vehicles that have been properly hoisted and supported. This lathe is meant for use in professional automotive repair facilities with fixed hoists. The lathe puts forces on a vehicle which could cause the vehicle to shift, topple or fall down if not properly supported. Serious injury or death could result.

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Do not move the lift or hoist up or down with the lathe attached to the vehicle.

- Lifting up may cause the trolley wheels to come off the ground, or reduce their ability to react to torque from the lathe. This may cause a condition where the lathe and trolley rotate quickly and violently when the lathe is switched on.
- Moving the lift down may put excess pressure on the lathe components, causing extensive damage to the lathe and trolley when compressed by vehicle weight.



Do not manually lift the lathe past the limit of the trolley gas spring when mounting the lathe to the vehicle. With the lathe off the vehicle, lower the vehicle until the lathe can mate to the adapter without lifting. Lifting the trolley wheels from the ground may reduce the trolley's ability to react to torque from the lathe. This may cause a condition where the lathe and trolley rotate quickly and violently when the lathe is switched on.



Always keep your body and limbs clear of the wheelwell and lathe body when switching the lathe on. This practice will reduce the risks that the lathe will injure you if the lathe or trolley is not properly secured, or if the vehicle's transmission locks suddenly.



Always secure the trolley locking lever before turning on the lathe. Failure to tighten this lever can allow the lathe to rotate violently when it is switched on, causing harm to the operator, equipment or those nearby.



Use good lighting. This lathe should be used only with adequate lighting. It should be non-blinding, stroboscopic and over 200 lux. Use additional task lighting if the ambient light is insufficient.

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Use a clean workspace. A clean, orderly work space reduces hazards. Keep the chip tray emptied and the lathe clean using a stiff brush.



Do use only original replacement components purchase from an authorized Pro-Cut dealer. Third party products have not been evaluated by Pro-Cut International for quality nor safety and could potentially create unforeseen hazards.



Modification of this lathe is not allowed. Modifying the lathe or using in an a manner other than for cutting brake discs on passenger cars and light to medium duty trucks may present other, unknown risks. Pro-Cut and its affiliates cannot be liable for unintended use of this machine.



Do not use if unsure of anything that does not appear or sound correct, or if you are unsure if you are qualified to operate this lathe safely.

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Declaration of Conformity

Pro-Cut International LLC
10 Technology Drive, Unit #4
West Lebanon, NH 03784, USA

Pro-Cut Europe
Unit 5 Orchard Trading Estate
Toddington, Gloucestershire
GL54 5EB, UK

On-Car Brake Lathes Models No. PFM-9.0, PFM-9.2
Manufactured 2006

Comply with the European Directives:
98/37/EC Machinery Directive
89/336/EEC EMC Directive

And further complies to Harmonized Standards:
DIN/EN/ISO 12100, EN 61050, IEC 60204

Signed,

Jeffrey P. Hastings, President
Pro-Cut International LLC

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Limits and Requirements:

TECHNICAL DATA:

Rotor Diameter:

PFM-9.0: Ø102- Ø412mm

PFM-9.2: Ø102- Ø437mm

Rotor Thickness: 5-44mm

Spindle RPM: 120 RPM

Carriage Feed Rate: 0.13mm/rev.

Maximum Cut Depth: 0.51mm per side of rotor

Input Voltage: 220-240 Volts AC, 50 Hz

Power required: 1.2 kW

Temperature range: 10-30 Degrees C.

Humidity range: 0-95% non-condensing

Machine, assembled: 1.17x1.14x1.14m

Packaged machine: 80x66x70 cm

Net Weight:

PFM-9.0: 32kg

PFM-9.2: 35kg

Gross/Shipping Weight:

PFM-9.0: 68kg

PFM-9.2: 73kg

INTENDED USE:

- Pro-Cut on-car lathes are intended for resurfacing automotive and light truck disc brakes made from steel or cast iron.
- They are intended to be used in an environment free of explosive gases, vapors or dusts.

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- They are intended to be used with professionally installed vehicle hoists.
- They are intended to be used only in combination with the supplied trolley.
- They are intended to be used only in repair shops with concrete or other flat flooring.
- They are not designed for outdoor use.
- They are not intended to be cleaned by water or air spray, only through direct mechanical action, such as a brush, rag or broom.
- They are intended to be used in environments with good ambient or task lighting, not less than 200 lux.
- Any use for other purposes is specifically disallowed.



ELECTRICAL REQUIREMENTS:

- Single Phase, 220-240 Volts AC, 50 or 60 Hz
- Earth Grounded Power (wall) Outlet Required

SUITABLE PERSONNEL:

- Pro-Cut on-car lathes are intended to be used only in a professional automotive repair facility.
- They are intended to be used only by trained automotive repair technicians, who have been specifically trained in disc brake service.

REQUIRED INDIVIDUAL SAFETY EQUIPMENT:

- Safety Glasses
- Close fitting overalls or mechanic's work clothing
- Hair nets or caps to hold long hair

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- Results of not using correct personal protective equipment:
 - Increased risk of entanglement
 - Increased risk of permanent vision damage
- Ear protection is not required. A properly functioning lathe makes less than 70db noise in normal use. Use ear protection if the surrounding environment has noise levels that are greater than 70db.

EMERGENCY SITUATIONS:

- Fire — Use only a non-water fire extinguisher. Risk of shock may occur if a water-based extinguisher is used.
- Flooding — Remove power immediately and after lathe is removed from water, clean and lubricate all metal surfaces to prevent rusting.

