

REMINGTON®



Power Trigger®
Model 479

PATMI
POWDER ACTUATED TOOL
MANUFACTURE INT'L INC.

Operating Instructions



IMPORTANT:

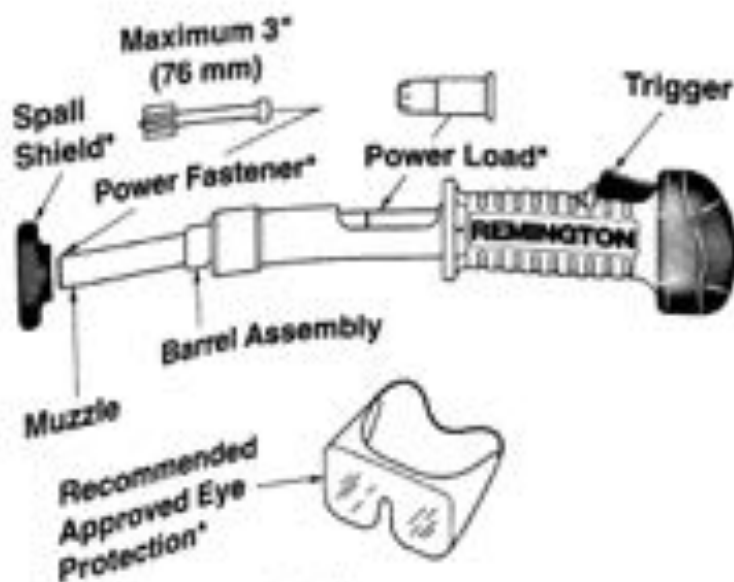
Read all instructions and warnings found in this manual and on power load packaging before operating your powder actuated tool. This manual should always accompany the tool and be transferred with it upon change of ownership.

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REMINGTON® Power Trigger® Model 479

The Remington brand Power Trigger Model 479 is designed for use with Remington brand powder .22 caliber, Type A neck-down crimped loads and Remington brand Power Fasteners up to 3" in length. Remington brand Power Fasteners are manufactured from special steel and heat treated to produce a very hard, yet ductile, fastener.



* Not provided with tool.



Warning: Safety Precautions

The following pages contain detailed warnings, cautions, and rules of safe operation. Read carefully and become familiar before operating to avoid serious injury. We expressly disclaim any liability for any injury to persons or damage to property which result from your failure to take the precautions contained in this manual.

WARNING: This tool is designed only for use by qualified operators. Qualification is obtained through a thorough understanding of the Safety Precautions and operating instructions as defined in this operating manual. **NOTE:** The labor regulations of many states require that the operator of this tool on a job site be thoroughly trained and certified for competence prior to operating this tool. For certification procedures, call: DESA Power Tools Technical Services Department, 1-800-858-8501 or visit www.desatech.com.

BEFORE USING



1. **ALWAYS** handle the tool as if it were loaded. Before starting work, check that the tool is unloaded and the muzzle is clear. **NEVER** load a tool unless it is going to be used.



2. **ALWAYS** inspect to make sure the tool is working properly. If the tool does not work properly, remove from service and tag **DEFECTIVE**. **DO NOT** use the tool again until it has been properly repaired.



3. Operators and bystanders must **ALWAYS** wear eye and ear protection which meet or exceed the accepted standards for adequate protection in your country. In the USA, refer to ANSI standards. In Canada, refer to CSA standards.

Safety Precautions



4. **ALWAYS** clear the work area on all sides and post appropriate warning signs on job sites.



5. **ALWAYS** make sure the work area is clean from loose material and debris.

HANDLING THE TOOL



1. **NEVER** place your hand over the muzzle. Accidental discharge can cause serious injury.



2. **NEVER** place your finger on the trigger until the muzzle of the tool is against the work surface.

Safety Precautions



3. **ALWAYS** store **UNLOADED** powder actuated tool and power loads in a locked container. Keep power loads of different power levels in separate containers.



4. **NEVER** carry or pass a loaded powder actuated tool. **NEVER** point a powder actuated tool at anyone.



5. If the tool is dropped, inspect for damage and repair it before continuing to work. **NEVER** use a damaged tool.



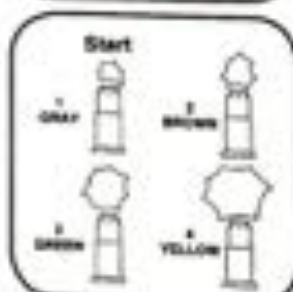
6. **ALWAYS** take precautions to maintain your balance while operating a powder actuated tool.

Safety Precautions



7. An operator taking medication should take extra precautions while handling the tool. **NEVER** drink alcoholic beverages or take medications which impair your vision, balance, or judgement before using a powder actuated tool.

KNOW YOUR FASTENING BASE MATERIAL



1. **ALWAYS** know the thickness and type of base material into which you are fastening. **NEVER GUESS.** Test the base material by using the Center Punch Test. The Center Punch Test is performed by using a hammer to test drive the particular power fastener to be used into the material. If the point penetrates easily, the material is too soft. If the point becomes blunt, the material is too hard. If the material fractures, cracks or shatters, the material is too brittle. Test fastenings can be made if the material shows a clear power fastener impression and the power fastener point is not blunted. Always start with the lowest power load (Gray-Level 1) and proceeding with the order shown in the lower right-hand figure above. Operators and bystanders must **ALWAYS** wear eye and ear protection which meet or exceed the accepted standards for adequate protection in your country. In the USA, refer to ANSI standards. In Canada, refer to CSA standards.

Safety Precautions



2. **NEVER** attempt to drive power fasteners into very hard or brittle materials including, but not limited to cast iron, glass, tile, stone, brick, or hardened steel. Materials of this type tend to shatter and create hazard from flying particles.



3. **NEVER** make fastenings in spalled or cracked areas.

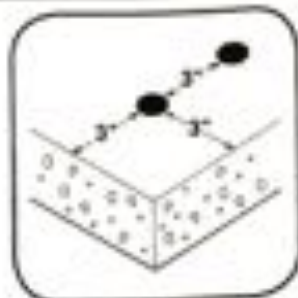


4. **NEVER** drive power fasteners into thin or easily penetrated material unless it is backed by concrete or steel. When in doubt, such as when base material is concealed, conduct a Center Punch Test (See page 6). Check continually to avoid fastening into unsuitable material, especially in older buildings.



5. **DO NOT** fasten thru or within 1/2" of predrilled or pre-punched holes.

Safety Precautions



6. **DO NOT** drive power fasteners into concrete less than three times as thick as the intended power fastener penetration, within 3" of the edge, within 3" of another power fastener, or within 3" of a failed power fastener.



7. **DO NOT** drive power fasteners into steel base material less than 3/16" thick, within 2" of a weld, within 1/2" of the edge, or within 1" of another power fastener.



8. When fastening into masonry walls, always drive into horizontal mortar joints, **NEVER** into vertical mortar joints. **BE CAREFUL**, a poorly laid joint may permit too much penetration and/or unsatisfactory holding power.

OPERATING THE TOOL

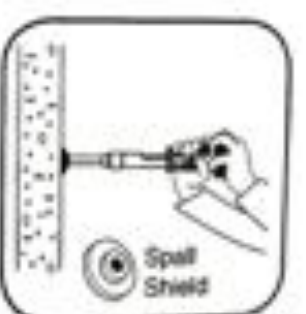


1. **ALWAYS** hold tool perpendicular to work surface.

Safety Precautions



2. Should the tool fail to fire, hold the muzzle firmly against the work surface for 30 seconds. Release the trigger and remove pressure on the tool while holding the muzzle against the work surface. Again press the tool firmly against the work surface and pull the trigger. If the tool still fails to fire, hold the tool firmly against the work surface for another 30 seconds before unloading and carefully discarding the misfired power load into water or oil.



3. **ALWAYS** use the spall shield when driving directly into concrete or steel. **ALWAYS** wear eye protection.



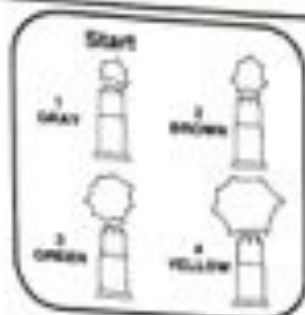
4. **NEVER** use a powder actuated tool in an explosive or flammable atmosphere or when non-sparking tools are required.

POWER LOADS AND POWER FASTENERS



1. **NEVER** leave unfired power loads on floors or work surfaces.

Safety Precautions



NOTE:

Failure to start with the lowest power level can result in overdrive condition and will result in damage to tool (see page 13).

- Remington brand Power Loads are available in four power levels with gray (1) being the lowest power level and yellow (4) being the highest power level. Always start with the lowest power level (gray-level 1) and increase until a proper fastening is made (see page 13, Selecting Power Fasteners and Power Loads).



- NEVER use power loads in firearms.



- NEVER carry power fasteners or other hard objects in the same pocket or container with power loads.

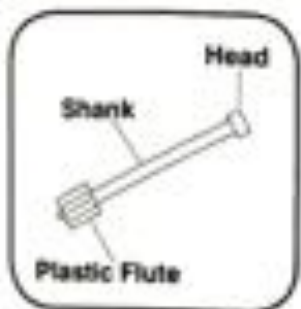


- A color blind person must take extra precautions to prevent the chance of mixing the power loads of various levels.

Safety Precautions



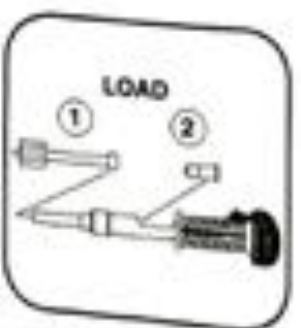
6. Power fasteners are a permanently installed fixture. An act of demolition is required for their removal. Appropriate safety precautions must be taken.



7. **NEVER** use common nails or other materials as fasteners. Remington brand Power Fasteners are manufactured from special steel and heat treated to produce a very hard, yet ductile, fastener.



8. **NEVER** pry a power load out of the chamber. Prying can discharge the load causing serious injury.



9. **ALWAYS** insert the power fastener first, then the power load. If work is interrupted for any reason, **ALWAYS** remove the power load before removing the power fastener (see page 15, item 7).

Why a Power Fastener Holds

WHY A POWER FASTENER HOLDS IN CONCRETE

The compression bond of the concrete to the power fastener accounts for the majority of the holding power. The power fastener displaces the concrete which tries to return to its original form causing a squeezing effect.

Maximum holding power is achieved when the depth of penetration produces a bond on the power fastener equal to the strength of the concrete. As a general rule, penetration should be approximately 1" to 1 1/4" into the base concrete. Make sure the concrete is at least three times as thick as the intended power fastener penetration. **NEVER** have the power fastener point protrude thru the concrete.

NOTE: Concrete needs to cure for 28 days before maximum fastening holding power will be achieved.



WHY A POWER FASTENER HOLDS IN STEEL

Holding power in steel depends on the elasticity of the steel. The steel pushes back on the shank of the power fastener.

Drop a marble into water; the water parts, the marble continues down, the water closes back. This is similar to the reaction when a power fastener penetrates steel.

In steel, the point of the power fastener must penetrate completely through for highest holding power. If the power fastener does not penetrate, the spring action of the steel pushes back on the point and tends to force the power fastener out.

Recommended applications are between 3/16-3/8" steel.

NOTE: When fastening in steel be sure the point goes thru the steel.



Selecting Power Fasteners and Power Loads

FASTENING INTO CONCRETE

The proper power fastener length can be determined by adding the thickness of the material to be fastened and the amount of power fastener that will actually penetrate the concrete. The concrete must be three times as thick as the intended power fastener penetration. In most cases, penetration should be approximately 1" to 1 1/4" into the base concrete material.



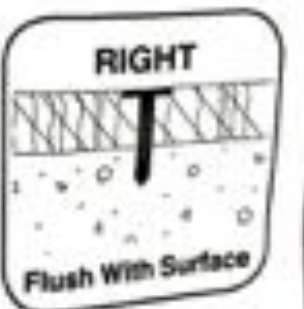
FASTENING INTO STEEL

The proper power fastener length can be determined by adding the thickness of the material to be fastened and the thickness of the steel. The point of the power fastener must go completely through the steel.



POWER LOADS

Always start with the lowest power level (gray-level 1). If the first test power fastener does not penetrate to the desired depth, move to the next highest power level (brown-level 2). Increase until a proper fastening is made. **IMPORTANT:** Damage to the tool will result if the above instructions are not followed (see illustrations to right and lower right).



OVERDRIVEN POWER FASTENERS AND PISTON

An overdriven power fastener results when too strong of a power load is used causing the piston to extend past the muzzle. Move to the next lightest power load. Repeated overdrive will damage your tool. By avoiding overdrive, you can extend the life of your tool considerably.

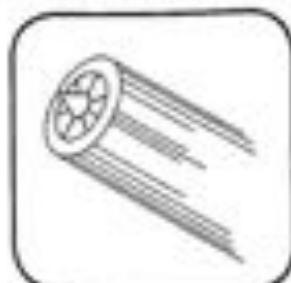
NOTE: NEVER fire the tool without a power fastener. This can damage the tool and/or cause possible injury to the operator.



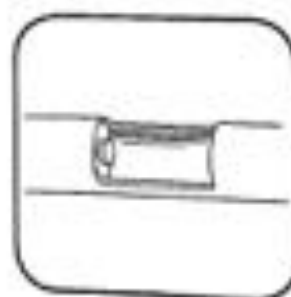
Operation



1. Grasp muzzle and slide barrel forward rapidly until it stops. This sets piston into firing position and opens the chamber.



2. Insert power fastener into muzzle of tool, head end first. Push the power fastener until point is even with end of tool. **ALWAYS** load the power fastener first, then the power load.



NOTE:

Failure to start with the lowest power level can result in overdrive condition and will result in damage to tool (see page 13).

3. Select the proper Remington brand Power Load (see Application Chart on pages 18 and 19) and insert into the chamber until it stops.



4. Push barrel into housing to the closed position.

Operation



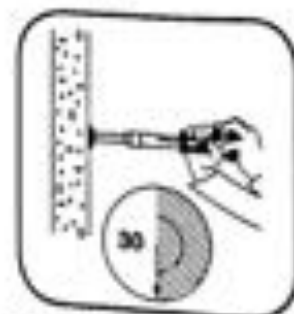
5. Place the muzzle of tool perpendicular to work surface without tilting the tool. Push tool against work surface until sliding action of barrel stops.



6. Squeeze trigger to set power fastener. Be sure to keep pressure on tool during this operation.



7. After fastening is made, slide barrel forward rapidly. This motion ejects the spent power load and resets the piston for the next fastening. Make sure spent load has ejected from tool.



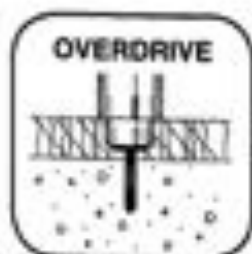
8. Should the tool fail to fire, hold the muzzle firmly against the work surface for 30 seconds. Release the trigger and remove pressure on the tool while holding the muzzle against the work surface. Again press the tool firmly against the work surface and pull the trigger. If the tool still fails to fire, hold the tool firmly against the work surface for another 30 seconds before unloading and carefully discarding the misted power load into water or oil.

Operation

PISTON OVERDRIVE

If the tool does not open after firing and the piston is 1/2 inch or more out of the muzzle:

1. Strike muzzle end of Power Trigger against hard surface to force piston back into muzzle
2. Eject the power load (See step 7 of Operation).





















CARE OF YOUR POWER TRIGGER: Clean your Power Trigger after each day's use. Clean chamber with accessory wire brush, part number 56485 (Not included with tool). Apply good quality penetrating lubricant spray (such as WD-40) sparingly and wipe dry.

NOTE: The labor regulations of many states require that the operator of this tool on a job site be thoroughly trained and certified for competence prior to operating this tool. For certification procedures, call: Technical Services Department, 1-800-626-2237 (English Only) or visit www.desatech.com.

Application Chart

Power load and power fastener application information.

For fastening this:	to this:	Power fastener length	Power load color
 Two by fours	Concrete Cement block Steel (3/16" to 3/8" thick)	 2 1/2" 2 1/2" 2"	 Green Green Yellow
 Furring strips	Concrete Cinder block Cement block Steel (3/16" to 3/8" thick)	 1 1/2" 1 1/2" 1 1/2" 2"	 Green Gray Brown Yellow
 Electrical Junction boxes	Concrete Cement block Steel	 1" 1" 3/4"	 Green Brown Green
 Conduit clips	Concrete Cement block Cinder block Steel	 1" 1" 1" 3/4"	 Green Brown Gray Green
 Shelf brackets	Concrete Cement block Cinder block	 1" 1" 1"	 Green Brown Gray
 1/4" Plywood or pegboard	Concrete Cement block Steel	 1 1/4" 1 1/4" 1"	 Green Green Yellow

Power load listings are recommendations only. If you are in doubt, try a test fastening using the next lightest power load. Power fasteners and power loads are available in blister packs of 25 and cartons of 100.

IMPORTANT

- Recommended for use with Remington brand power loads and power fasteners.
- If power fastener goes below the top surface of the board, use penetrating control disc (see illustration below) or washered SPW-type power fasteners.
- Operators and bystanders must **ALWAYS** wear eye and ear protection which meet or exceed the accepted standards for adequate protection in your country. In the USA, refer to ANSI standards. In Canada, refer to CSA standards.

* Use power fastener with penetration control disc, part number 0155-49.



Application Chart

IMPORTANT

This tool is designed to use .22 caliber neck-down crimped loads, power levels 1 (gray) through 4 (yellow).




Neck-Down Crimped
Power Load



Straight Wadded
Power Load

CAUTION: Do not use any load other than the .22 caliber neck-down crimped load. Other types of loads will cause load-ejection problems.

.22 CALIBER Type A neck-down crimp loads for powder actuated tools

	Stock Number	Load Level Number	Load Strength	Color Code	
				Case Body	Head
A22C1	1	light	brass	Gray	
A22C2	2	medium	brass	Brown	
A22C3	3	heavy	brass	Green	
A22C4	4	extra heavy	brass	Yellow	

NOTICE:

This is your Owner's Manual.
Read Carefully before
operating your
Remington brand
POWER TRIGGER

Accessories

Part No.	Description
56485	Brush, .25
56415	Goggles
TA4090	Shield, Spall

Limited Warranty

NEW PRODUCTS

Standard Warranty

DESA Power Tools warrants this new product and any parts thereof to be free from defects in material and workmanship for a period of two (2) years from the date of first purchase from an authorized dealer provided the product has been maintained and operated in accordance with DESA Power Tools' warnings and instructions.

FACTORY RECONDITIONED PRODUCTS

Limited Warranty

DESA Power Tools warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for 90 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with DESA Power Tools' warnings and instructions.

TERMS COMMON TO ALL WARRANTIES

The following terms apply to all of the above warranties:

- Always specify model number when contacting the manufacturer. To make a claim under this warranty the bill of sale or other proof of purchase must be presented.
- This warranty is extended only to the original retail purchaser when purchased from an authorized dealer.
- This warranty covers the cost of part(s) required to restore this product to proper operating condition and an allowance for labor when provided by a DESA Power Tools Authorized Service Center. Warranty parts must be obtained through authorized dealers of this product and/or DESA Power Tools who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.
- Travel, handling, transportation, diagnostic, material, labor and incidental costs associated with warranty repairs, unless expressly covered by this warranty, are not reimbursable under this warranty and are the responsibility of the owner.
- Excluded from this warranty are products or parts that fail or become damaged due to misuse, accidents, lack of proper maintenance, tampering, or alterations.
- Excluded from this warranty are products purchased for commercial, industrial or rental usage.
- This is DESA Power Tools' exclusive warranty, and to the full extent allowed by law, this express warranty excludes any and all other warranties, express or implied, written or verbal and limits the duration of any and all implied warranties, including warranties of merchantability and fitness for a particular purpose to two (2) years on new products and 90 days on factory reconditioned products from the date of first purchase. DESA Power Tools makes no other warranties regarding this product.
- DESA Power Tools' liability is limited to the purchase price of the product, and DESA Power Tools shall not be liable for any other damages whatsoever under any circumstances including indirect, incidental, or consequential damages.

- Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For information about this warranty contact:

In U.S.A., contact:

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www.desatech.com

In Canada, contact:

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