

# REMINGTON®



Power Pro™  
Semi-automatic  
Model 500V



**PA™**  
POWDER ACTUATED TOOL  
MANUFACTURERS' INSTITUTE INC.

## Operating Instructions



### **IMPORTANT:**

Read this manual and all labels carefully before operating your powder actuated tool. This manual should always accompany the tool and be transferred with it upon change of ownership.

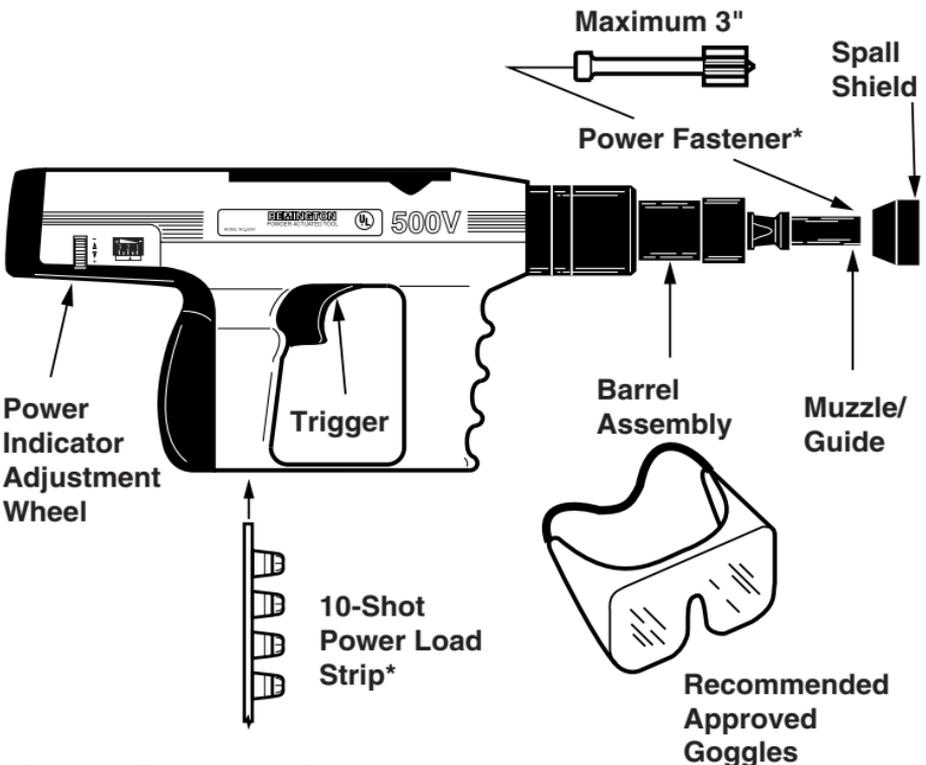
# INDEX

|                                                 |            |
|-------------------------------------------------|------------|
| Warning: Safety Precautions .....               | 3-11       |
| Why A Power Fastener Holds .....                | 12         |
| Selecting Power Fasteners and Power Loads ..... | 13         |
| Operation .....                                 | 14-15      |
| Parts List .....                                | 16-17      |
| Cleaning and Maintenance .....                  | 17         |
| Tool Disassembly .....                          | 18-21      |
| Tool Assembly .....                             | 22-25      |
| Troubleshooting Guide .....                     | 26         |
| Replacement Parts and Accessories .....         | 27         |
| Technical Service .....                         | 27         |
| Repair Service .....                            | 27         |
| Parts Centrals .....                            | 28         |
| Fasteners .....                                 | 28         |
| Application Chart .....                         | 29         |
| Warranty .....                                  | Back Cover |

## REMINGTON®

### Power Pro™ Semi-automatic Model 500V

The Remington® Power Pro™ Model 500V is designed for use with Remington® .27 caliber power load strips and Remington® power fasteners which are no longer than 3". Remington® power fasteners are manufactured from special steel and heat treated to produce a very hard yet ductile fastener.



\*Not supplied with tool

# **Warning: Safety Precautions**

**IMPORTANT:** Read these operating instructions carefully and completely before trying to operate or service this tool. Improper use of this tool can cause serious injury or death from firing fastener into body or from flying debris. 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 Warnings 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 Specialty Products™ Technical Services Department, 1-800-858-8501 or visit [www.desatech.com](http://www.desatech.com) (U.S.A.) or 1-905-826-8010 (Canada).

## 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 goggles and hearing 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.

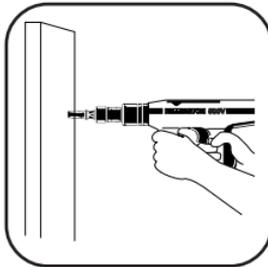


5. **ALWAYS** make sure the work area is clean from loose material and debris.

## HANDLING THE TOOL

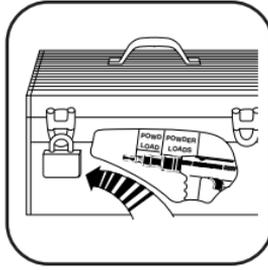


1. **NEVER** place your hand over the muzzle. Accidental discharge can cause serious injury.



2. **NEVER** place your finger on the trigger until the tool's muzzle 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 precaution to maintain your balance while operating a powder actuated tool.

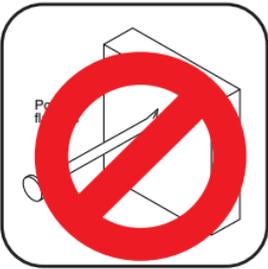
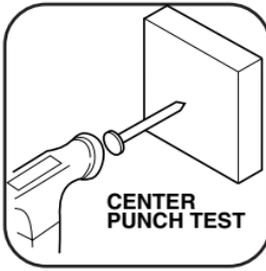
# Safety Precautions

---



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 fastener impression and the fastener point is not blunted. **ALWAYS** use test fastenings to determine the correct power load level and the tool's power indicator setting (see *Power Loads and Power Indicator Setting*, page 13). Operators and bystanders must always wear goggles 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 hazards from flying particles.



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

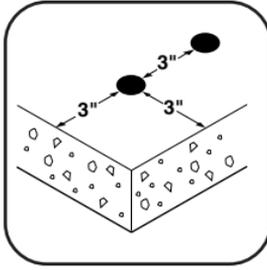
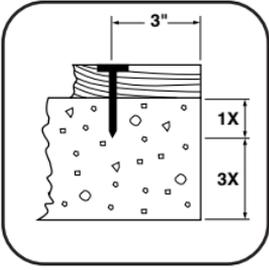


4. **NEVER** drive power fasteners into thin or easily penetrated materials unless it is backed by concrete or steel. When in doubt, such as when base material is concealed, conduct a Center Punch Test (See page 6). Check continually to avoid fastening into unsuitable material, especially in older buildings.

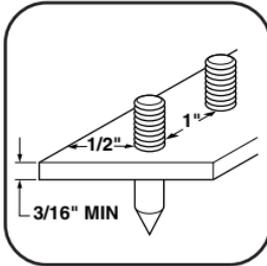


5. **DO NOT** fasten through or within 1/2" of predrilled or pre-punched holes.

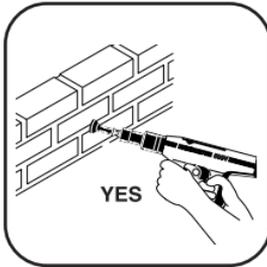
# Safety Precautions



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

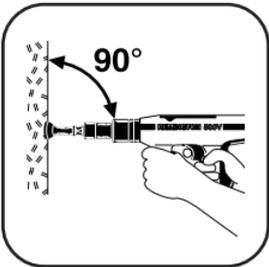


7. **DO NOT** drive power fasteners into steel base material less than 3/16" thick, within 2" of a weld, within 1/2" of the edge or within 1" of another power fastener.



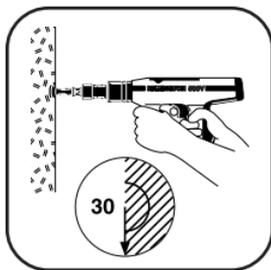
8. When fastening into masonry walls, always drive into horizontal mortar joints, never into vertical mortar joints. **BE CAREFUL.** A poorly laid joint may permit too much penetration, and/or unsatisfactory holding power.

## 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 advancing the power load strip. Use remaining loads in strip. Discard power load strip into water or oil.



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



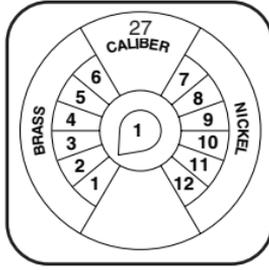
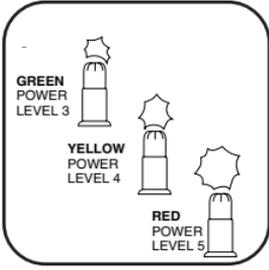
4. **NEVER** use a powder actuated tool in an explosive or flammable atmosphere or when non-sparking tools are required.

## POWER LOADS AND FASTENERS



1. **NEVER** leave unfired power load strips 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).

2. Remington® power load strips are available in three power levels – green (level 3), yellow (level 4) and red (level 5). Green is lowest power level, red is highest power level. Always use test fastenings to determine the correct power load level and the tool's power indicator setting (see *Power Loads and Power Indicator Setting*, page 13). **IMPORTANT: Purple (level 6) power load strips will not function in model 500V tool.**



3. **NEVER** use power loads in firearms.



4. **NEVER** carry fasteners or other hard objects in the same pocket or container with power load strips.



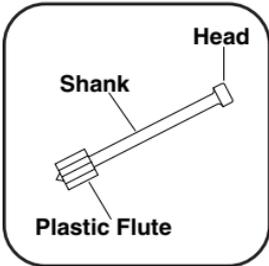
5. A color blind person must take extra precautions to prevent the chance of mixing the power load strips of various levels.

# 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® 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 strip. Prying can discharge the load causing serious injury (See *Troubleshooting Guide*, page 26). Never attempt to reload used strips.



9. If work is interrupted for any reason, remove the power load strip before removing the power fastener.

# 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 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 fastener penetration. Never have the power fastener point protrude through 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

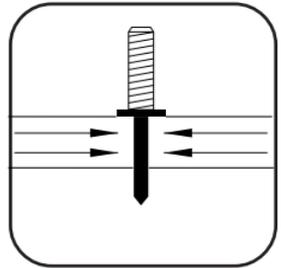
Holding power in steel depends on the elasticity of the steel. The steel pushes back on the shank of the power fastener.

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 fastener does not penetrate, the spring action of the steel pushes back on the point and tends to force the fastener out.

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

**NOTE:** When fastening in steel be sure the point goes through 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 fastener that will actually penetrate the concrete. The concrete must be three times as thick as the intended fastener penetration. In most cases, penetration should be approximately 1" to 1 1/4" into the base concrete material.



## FASTENING INTO STEEL

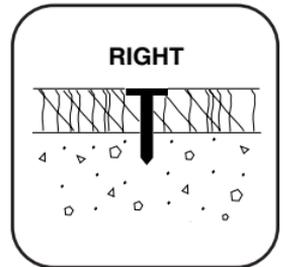
The proper fastener length can be determined by adding the thickness of the material to be fastened and the thickness of the steel. The point of the power fastener must go completely through the steel.



## POWER LOADS AND POWER INDICATOR SETTING

Proper fastening requires the correct combination of power load level and the tool's power indicator setting to match the fastener length for a given application. A general estimate for the power load level needed for a given application can be found in the application chart on page 29. For a given power load level, always start with the lowest power indicator setting on the tool. If the first test fastening does not penetrate to the desired depth, increase the tool's power indicator setting 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).



Flush With Surface

## OVERDRIVEN POWER FASTENERS AND PISTON

An overdriven power fastener results when the combination of power load level and the tool's power indicator setting is too strong causing the piston to extend past the muzzle. Decrease the tool's power indicator setting. Repeated overdrive will damage the tool. By avoiding overdrive, the tool's life can be extended considerably and costly repairs can be avoided.

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

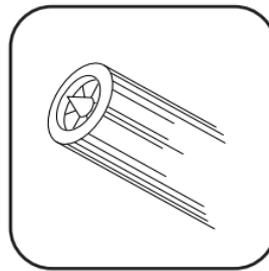
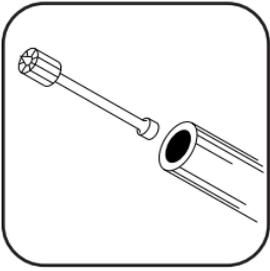


Piston Extended  
Out of Muzzle

# Operation



1. Grasp barrel assembly and slide forward rapidly until it stops. Push barrel assembly back into tool to the closed position. This sets piston into firing position.



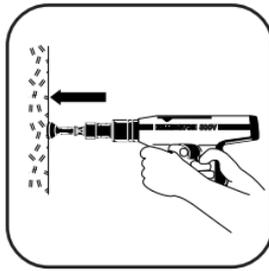
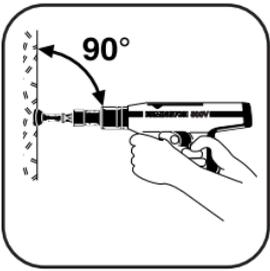
2. Insert power fastener into muzzle of tool, head end first. Push the fastener until point is even with end of muzzle.



## NOTE:

Failure to start with the proper power level and power setting can result in over-drive condition and will result in damage to tool (See page 13).

3. Select the proper power level of power load strips and power indicator setting (see *Power Loads and Power Indicator Setting*, page 13). Always insert power load strips through bottom of handle. Push power load strip in until even with bottom of handle.

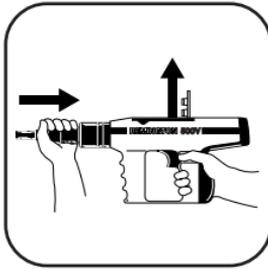


4. Place the muzzle of tool perpendicular to work surface without tilting the tool. Push tool against work surface until sliding action of barrel stops.

# Operation



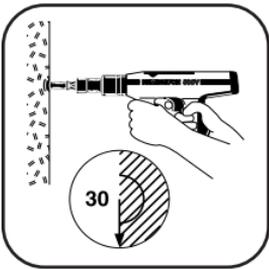
5. Squeeze trigger to set power fastener. Be sure to keep pressure on tool during this operation.



6. Grasp muzzle cap and slide barrel forward rapidly until it stops. Push barrel assembly back into tool to the closed position. This advances the power load strip and resets the piston for the next fastening.



**WARNING: Do not depress barrel assembly past the closed position when loading new power fastener. Live power load is in firing position.**



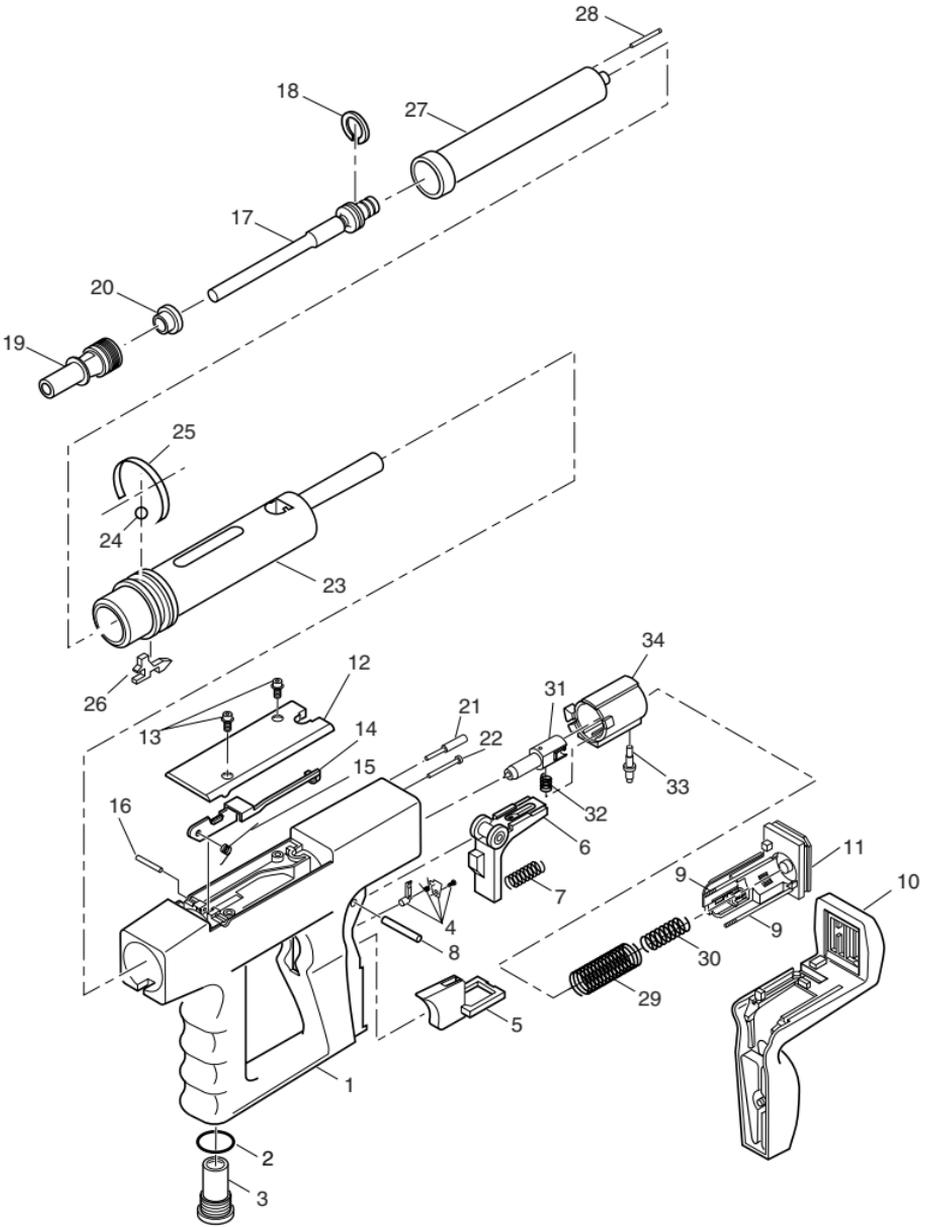
7. Should the tool fail to fire, hold the muzzle firmly against the work surface for 30 seconds. Release the trigger and remove pressure on the tool while holding the muzzle against the work surface. Again press the tool firmly against the work surface and pull the trigger. If the tool still fails to fire, hold the tool firmly against the work surface for another 30 seconds before advancing the power load strip. Use remaining loads in strip. Discard power load strip into water or oil.

# Parts List

# 500V

| Key No.                   | Part No.  | Description                                                   | Qty. |
|---------------------------|-----------|---------------------------------------------------------------|------|
| 1                         | SF901011  | Housing                                                       | 1    |
| 2                         | 450108    | O-Ring                                                        | 1    |
| 3                         | SF901800  | Baffle Assembly                                               | 1    |
| 4                         | SF901010  | Pawl Assembly                                                 | 1    |
| 5                         | 450005    | Trigger                                                       | 1    |
| 6                         | 455000    | Rocker Arm Assembly                                           | 1    |
| 7                         | 455041    | Rocker Arm Spring                                             | 1    |
| 8                         | 455042    | Rocker Arm Pin                                                | 1    |
| 9                         | 456048    | Screw                                                         | 2    |
| 10                        | SF901700  | Handle Pad Assembly                                           | 1    |
| 11                        | SF901600  | Rear Pad and Power Indicator Assembly                         | 1    |
| 12                        | SF901002  | Cover                                                         | 1    |
| 13                        | SF901005  | Screw                                                         | 2    |
| 14                        | SF901301  | Advance Bar                                                   | 1    |
| 15                        | SF901302  | Advance Spring                                                | 1    |
| 16                        | SF901303  | Advance Pin                                                   | 1    |
| 17                        | SF901205  | Piston Assembly (Includes Ring)                               | 1    |
| 18                        | 452220    | Piston Ring                                                   | 1    |
| 19                        | SF901208  | Muzzle Cap                                                    | 1    |
| 20                        | TA4087    | Plastic Buffer (5 Pack)                                       | 1    |
| 21                        | SF901105  | Transfer Pin                                                  | 1    |
| 22                        | SF901104  | Push Pin                                                      | 1    |
| 23                        | SF901100  | Outer Liner Assembly                                          | 1    |
| 24                        | 301013    | Ball Detent                                                   | 1    |
| 25                        | SF901106  | Annular Spring                                                | 1    |
| 26                        | 306012    | Key Stop                                                      | 1    |
| 27                        | SF901200  | Barrel                                                        | 1    |
| 28                        | SF901213  | Power Adjustment Pin and Ring                                 | 1    |
| 29                        | SF901403  | Spring                                                        | 1    |
| 30                        | 454037    | Firing Pin Spring                                             | 1    |
| 31                        | 454100    | Firing Pin Assembly (Includes Pin, Spring, Washer, and Screw) | 1    |
| 32                        | 454034    | Sear Spring                                                   | 1    |
| 33                        | 454033    | Sear                                                          | 1    |
| 34                        | 454035    | Firing Pin Guide                                              | 1    |
| <b>Optional Accessory</b> |           |                                                               |      |
|                           | 101320-02 | Spall Shield                                                  | 1    |
|                           | 056486    | Brush                                                         | 1    |

**IMPORTANT:** Do not use key numbers when ordering service parts. Always order components by part number and description. Include model number and serial number of tool.



## Cleaning and Maintenance

Clean tool after each days use. Disassemble and clean the barrel assembly with the wire brush provided with tool. **Notice:** Do not attempt to clean power load strip channel with wire brush.

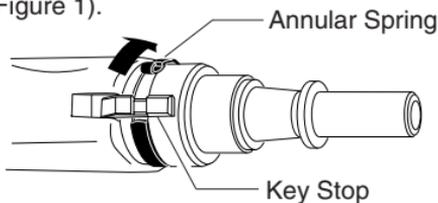
Apply good quality penetrating lubricant spray (such as WD-40) sparingly and wipe dry.

# Tool Disassembly

**WARNING:** Always unload a powder actuated tool before disassembling, replacing barrel, cleaning, or assembling.

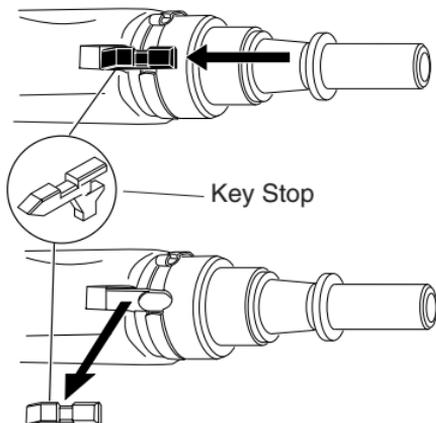
## A. REMOVING BARREL ASSEMBLY

1. Using screwdriver, lift end of annular spring and rotate spring until key stop is uncovered (see Figure 1).



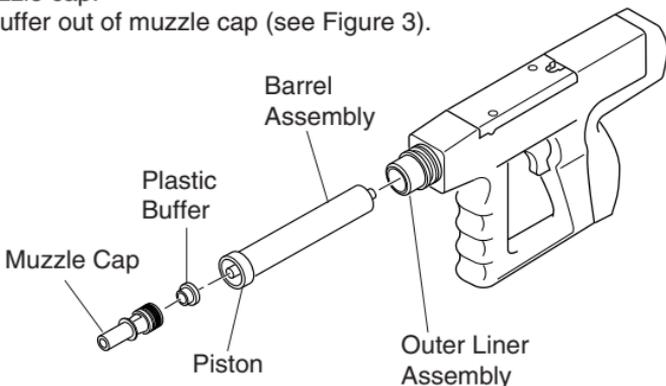
**Figure 1 - Rotating Annular Spring to Uncover Key Stop**

2. Push key stop towards rear of tool and remove (see Figure 2).



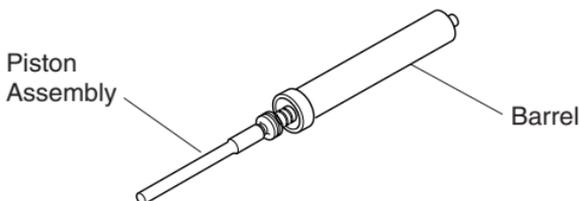
**Figure 2 - Removing Key Stop**

3. Firmly grip and pull barrel assembly from the outer liner assembly.
4. Unscrew muzzle cap.
5. Pull plastic buffer out of muzzle cap (see Figure 3).



**Figure 3 - Separating Barrel Assembly from Housing**

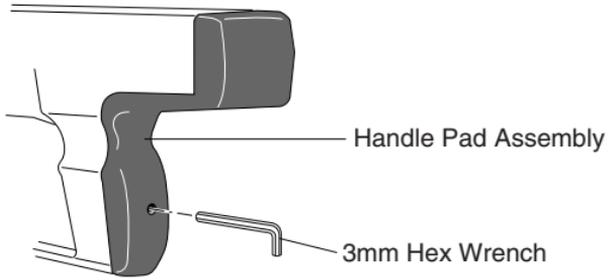
6. Pull piston assembly, using moderate force, from barrel (see Figure 4).



**Figure 4 - Removing Piston Assembly from Barrel**

## B. REMOVING HANDLE PAD ASSEMBLY

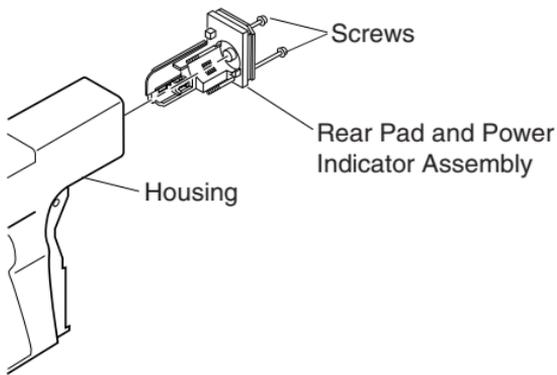
1. Loosen screw on back of handle pad assembly with 3mm hex wrench. Do not remove the screw from the assembly (see Figure 5).
2. Remove handle pad assembly.



**Figure 5 - Removing Handle Pad Assembly**

## C. REMOVING REAR PAD AND POWER INDICATOR ASSEMBLY

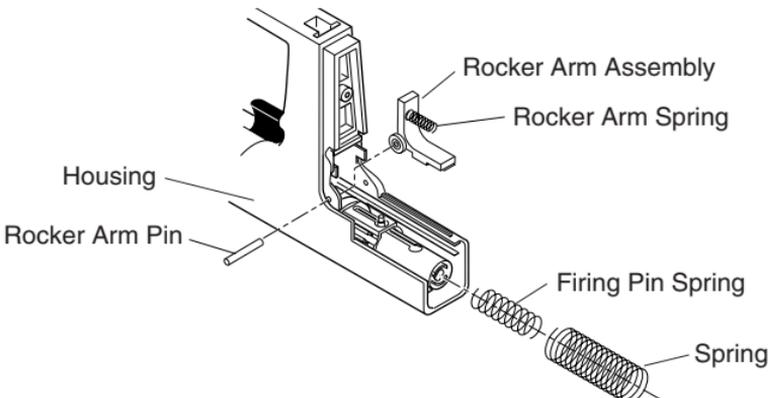
1. Keeping pressure against the back of the rear pad and power indicator assembly, loosen screws using a 3mm hex wrench. Slowly release pressure. *Note:* Rear pad and power indicator assembly is spring loaded. Pressure should be kept on the assembly at all times while loosening screws to avoid losing parts.
2. Pull rear pad and power indicator assembly out of housing (see Figure 6).



**Figure 6 - Removing Rear Pad and Power Indicator Assembly**

## D. REMOVING ROCKER ARM ASSEMBLY

1. Remove the larger spring from the outside of the outer liner assembly and the firing pin spring from inside the outer liner assembly (see Figure 7).
2. Remove rocker arm pin with hammer and punch.
3. Remove rocker arm assembly from housing (see Figure 7).

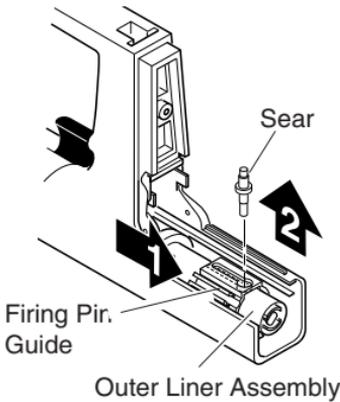


**Figure 7 - Removing Rocker Arm Assembly from Housing**

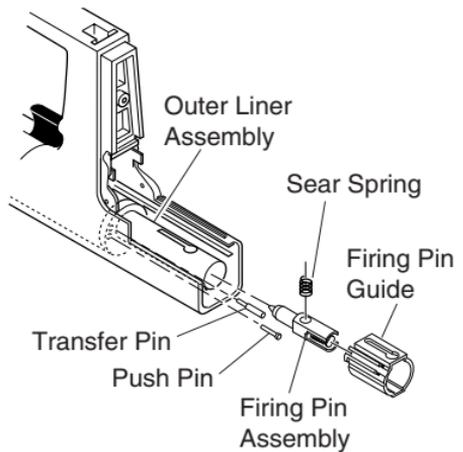
# Tool Disassembly (Cont.)

## E. REMOVING FIRING PIN

1. Slide firing pin guide back so the slot in the firing pin guide lines up with the slot in the outer liner assembly.
2. Pull the sear out of the aligned holes (see Figure 8).
3. Slide firing pin guide off of the outer liner assembly (see Figure 9). Pull the firing pin assembly with sear spring out of the outer liner assembly. Remove sear spring from firing pin assembly (see Figure 9).
4. Remove transfer pin and push pin from outer liner assembly (see Figure 9).



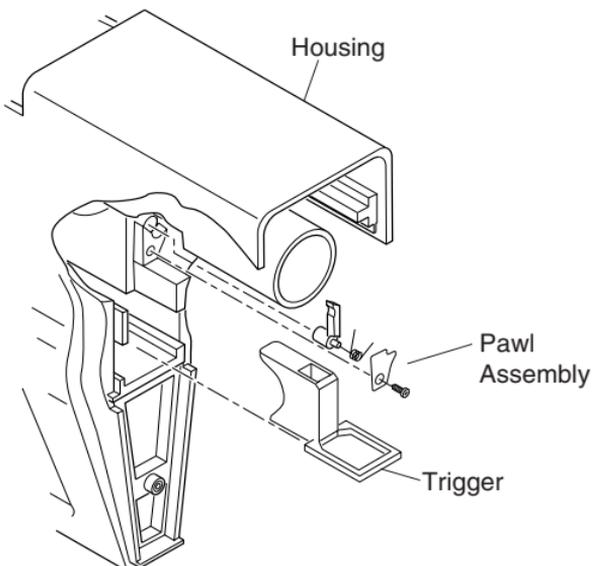
**Figure 8 - Removing Sear**



**Figure 9 - Removing Firing Pin Guide, Firing Pin Assembly, Sear Spring, Transfer Pin, and Push Pin**

## F. REMOVING TRIGGER AND PAWL ASSEMBLY

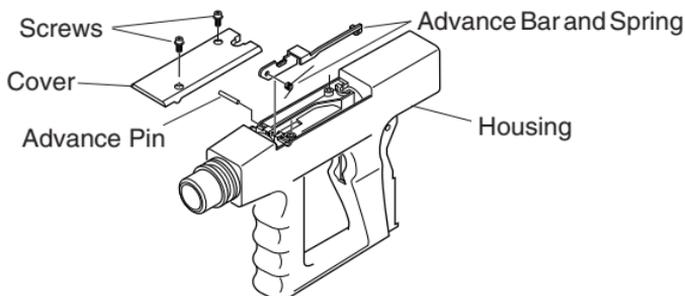
1. Slide trigger out of housing (see Figure 10).
2. Using a phillips head screw driver, loosen screw and remove pawl assembly components from housing (see Figure 10).



**Figure 10 - Removing Trigger and Pawl Assembly**

## G. REMOVING ADVANCE BAR

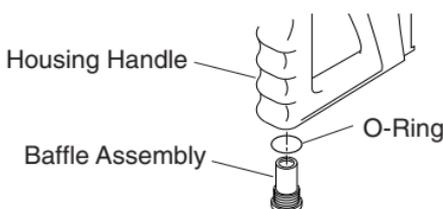
1. Using a 3mm hex wrench, loosen screws on cover and remove.
2. Remove advance pin with hammer and punch.
3. Remove advance bar and spring.



*Figure 11 - Removing Advance Bar*

## H. REMOVING BAFFLE ASSEMBLY

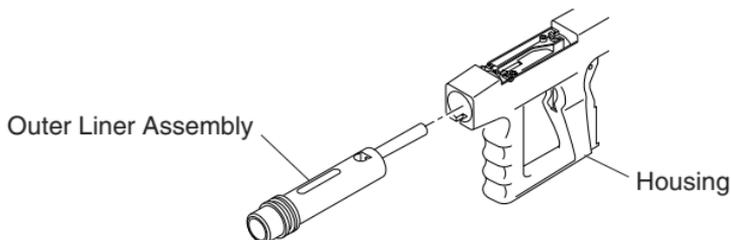
1. Loosen and remove baffle assembly and o-ring.



*Figure 12 - Removing Baffle*

## I. REMOVING OUTER LINER ASSEMBLY FROM HOUSING

1. Grasp outer liner assembly and firmly pull from housing.



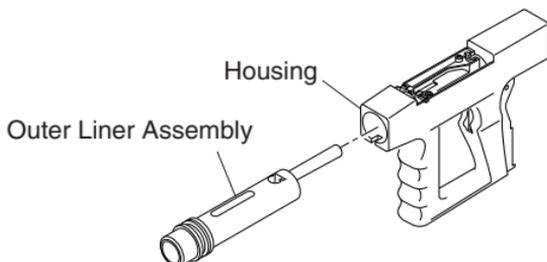
*Figure 13 - Removing Outer Liner Assembly*

# Tool Assembly

**WARNING:** Always unload a powder actuated tool before disassembling, replacing barrel, cleaning, or assembling.

## A. INSERTING OUTER LINER ASSEMBLY

1. Firmly push outer liner assembly into housing (see Figure 14).

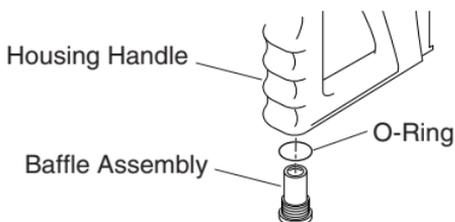


*Figure 14 - Inserting Outer Liner Assembly*

# Tool Assembly (Cont.)

## B. INSERTING BAFFLE ASSEMBLY

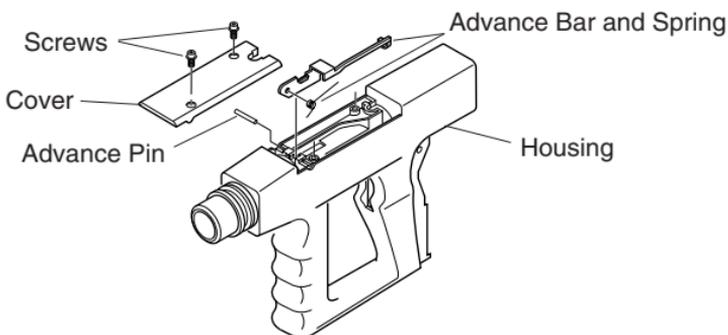
1. Insert baffle assembly with o-ring into handle and tighten (see Figure 15).



**Figure 15 - Inserting Baffle Assembly**

## C. REPLACING ADVANCE BAR

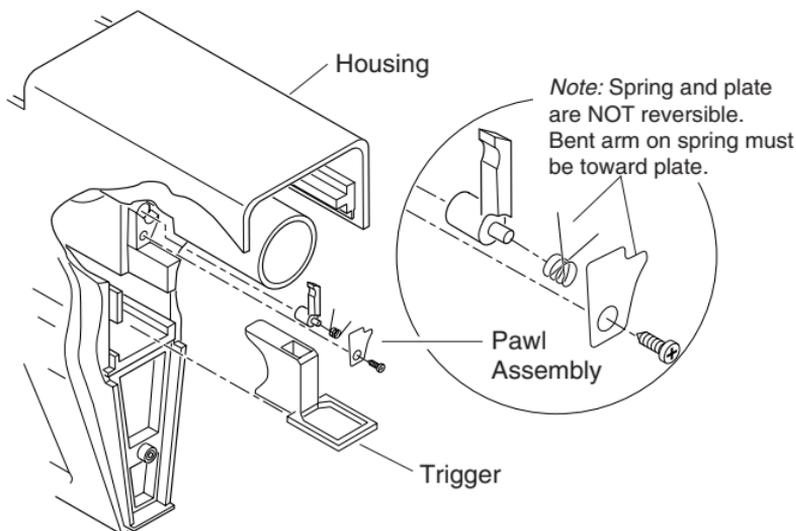
1. Place advance bar and spring into housing (see Figure 16).
2. Secure advance bar by inserting the advance pin through the housing, advance bar, and spring.
3. Place cover onto housing and align holes. Insert screws into cover and tighten with 3mm hex wrench (see Figure 16).



**Figure 16 - Replacing Advance Bar**

## D. REPLACING TRIGGER AND PAWL ASSEMBLY

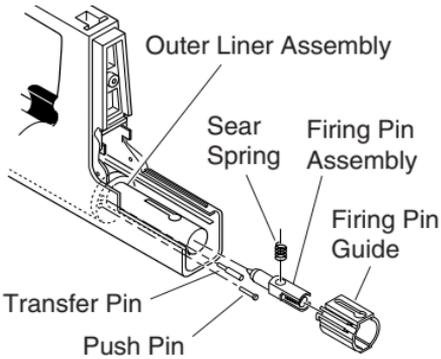
1. Assemble pawl components and screw into housing using a phillips head screwdriver (see Figure 17).
2. Slide trigger into housing (see Figure 17).



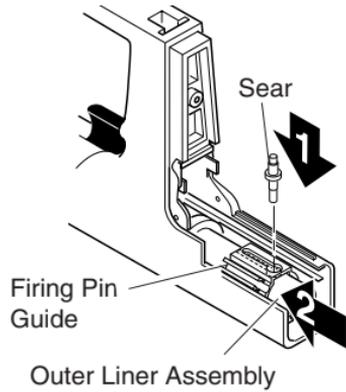
**Figure 17 - Replacing Trigger and Pawl Assembly**

## E. REPLACING FIRING PIN

1. Insert transfer pin and push pin into outer liner assembly (see Figure 18).
2. Place sear spring into firing pin assembly. Slide firing pin assembly into outer liner assembly (see Figure 18). Slide the firing pin guide onto the outer liner assembly. Align the holes in the firing pin guide, the outer liner assembly, and firing pin assembly so that the sear can pass easily through all three (see Figure 19).
3. Depress sear with sear and slide the sear and firing pin guide toward the front of the tool.



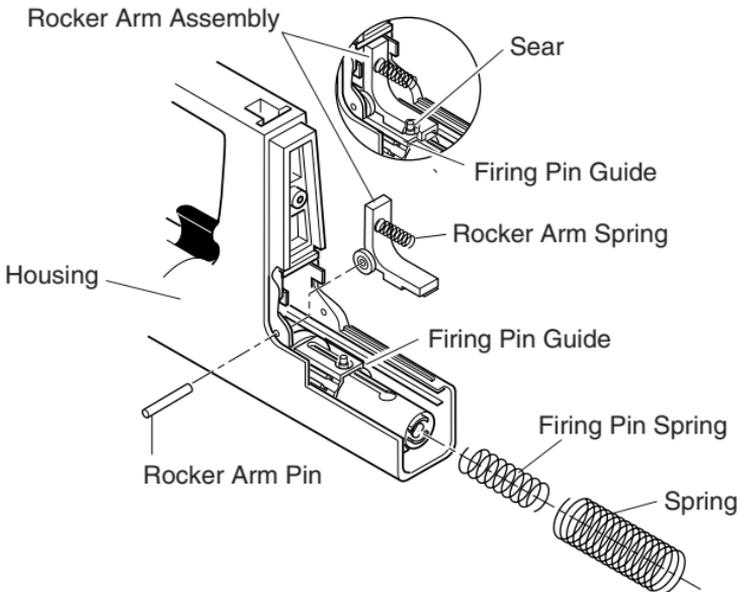
**Figure 18 - Replacing Firing Pin Guide, Firing Pin Assembly, Spring, Transfer Pin, and Push Pin**



**Figure 19 - Replacing Sear**

## F. REPLACING ROCKER ARM ASSEMBLY

1. Place rocker arm assembly, with rocker arm spring attached, into housing. The rocker arm assembly will sit on top of the firing pin guide.
2. Push rocker arm pin through the housing and rocker arm assembly with a punch and hammer.
3. Insert firing pin spring into outer liner assembly. Slide larger spring onto the outer liner assembly.

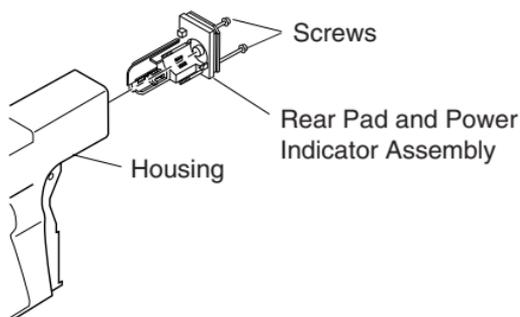


**Figure 20 - Replacing Rocker Arm Assembly into Housing**

# Tool Assembly (Cont.)

## G. ATTACHING REAR PAD ASSEMBLY

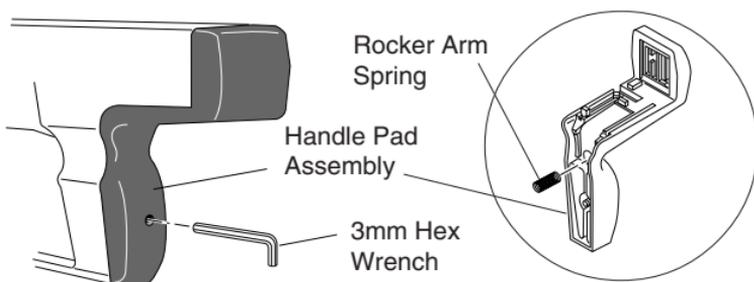
1. Push the rear pad and power indicator assembly onto housing, aligning screws with holes in housing.
2. Holding pressure on rear pad and indicator assembly, tighten screws with 3mm hex wrench. Note: Rear pad and power indicator assembly is spring loaded. Pressure should be kept on the assembly at all times while tightening screws to avoid losing parts.



**Figure 21 - Attaching Rear Pad and Power Indicator Assembly**

## H. ATTACHING HANDLE PAD ASSEMBLY

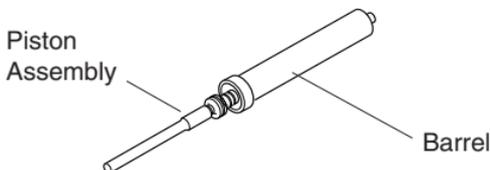
1. Place handle pad assembly onto housing body and tighten screw with 3mm hex wrench. Make sure rocker arm spring stays tight against the handle pad assembly while tightening screw.



**Figure 22 - Attaching Handle Pad Assembly**

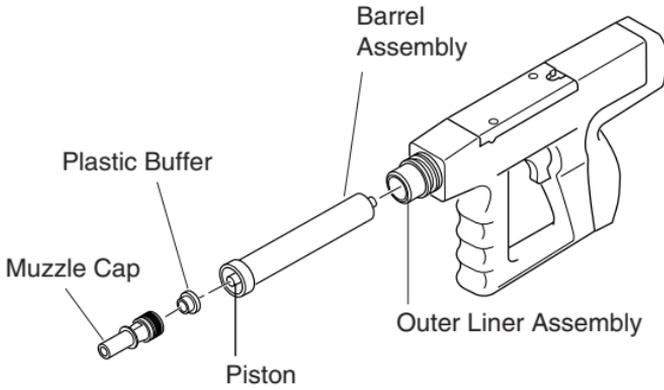
## I. ASSEMBLING BARREL ASSEMBLY

1. Using moderate force, insert piston assembly into barrel (see Figure 23).



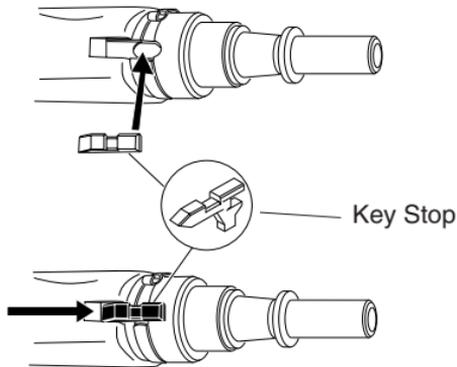
**Figure 23 - Inserting Piston Assembly into Barrel**

2. Insert plastic buffer into muzzle cap.
3. Screw muzzle cap to barrel assembly.
4. Firmly insert barrel into outer liner assembly with slot side down (see Figure 24).

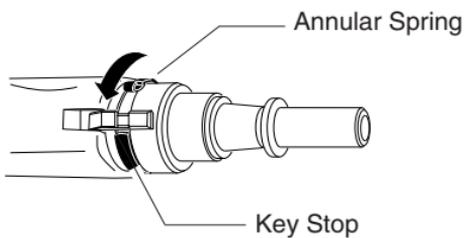


**Figure 24 - Separating Barrel Assembly from Housing**

5. Insert key stop into slot on outer liner assembly (see Figure 25).
6. Push stop towards front of tool (see Figure 25).
7. Rotate annular spring until key stop is covered (see Figure 26).



**Figure 25 - Replacing Key Stop**



**Figure 26 - Rotating Annular Spring to Cover Key Stop**

# Troubleshooting Guide

| PROBLEM                                                                                          | POSSIBLE CAUSE                                                                         | REMEDY                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Piston hangs out of muzzle.                                                                      | Tool overdriven.                                                                       | Tap piston on hard surface until piston is pushed back into the guide. (See <i>Over-driven Fastener</i> below).                                                                                                        |
|                                                                                                  | Piston not properly assembled in relation to stop.                                     | Remove barrel assembly (see pages 18-21). Replace all damaged or missing parts.                                                                                                                                        |
|                                                                                                  | Broken piston or piston ring.                                                          | Replace piston or piston ring or take tool to your distributor.                                                                                                                                                        |
| Overdriven fastener.                                                                             | Excessive power.                                                                       | Change to next lower power indicator setting and/or power load level (see page 13) or use next longer length fastener.                                                                                                 |
| Piston jammed.                                                                                   | Overdriving of fastener (see above).                                                   | Remove barrel assembly (see pages 18-21). Replace other parts if damaged.                                                                                                                                              |
| Power load strip will not advance.                                                               | Advance bar or spring damaged                                                          | Replace advance bar or springs.                                                                                                                                                                                        |
|                                                                                                  | Tool dirty.                                                                            | Clean tool. <b>Notice:</b> Do not attempt to clean power load strip channel with wire brush. You may damage tool.                                                                                                      |
| Reduction or loss of power.                                                                      | Piston not returning to full rear position.                                            | Barrel must be opened to the full extended position to properly position piston.                                                                                                                                       |
|                                                                                                  | Worn piston ring or broken piston.                                                     | Replace piston and/or piston ring or take tool to your distributor.                                                                                                                                                    |
| Tool does not completely depress.                                                                | Misassembled or damaged sear, firing pin parts, or guide.                              | Remove firing pin guide and check all parts for correct fit assembly.                                                                                                                                                  |
| Tool does not fire.                                                                              | Failure of tool to depress completely.                                                 | See data listed under <i>Tool does not completely depress</i> , above.                                                                                                                                                 |
|                                                                                                  | Piston not fully reset.                                                                | Fully reset piston. See step 1 under <i>Operation</i> , pages 14 and 15.                                                                                                                                               |
|                                                                                                  | Dirt buildup on sear not allowing proper penetration of firing pin or worn firing pin. | Check firing pin mark on power load. Clean firing pin guide, sear and firing pin. Replace worn or damaged parts. <b>Notice:</b> Do not attempt to clean power load strip channel with wire brush. You may damage tool. |
| Opening and closing of barrel or pushing down on tool, etc. is not smooth but is rough or binds. | Lack of proper cleaning.                                                               | Inspect and clean complete tool. Replace worn or damaged parts. <b>Notice:</b> Do not attempt to clean power load strip channel with wire brush. You may damage tool.                                                  |

# Replacement Parts And Accessories

---

 **WARNING: Use only replacement parts and accessories described in this manual. Use of other parts or accessories could damage saw or injure operator.**

For original replacement parts and accessories, contact your nearest Authorized Dealer or Authorized Service Center for this product. If they can not supply the part or accessory, contact your nearest Parts Central listed on page 28. Each Authorized Dealer, Authorized Service Center, and Parts Central is independently owned and operated. See pages 16 and 17 for an Illustrated Parts List.

If you need additional referral information, contact our Technical Service Department (see *Technical Service*).

In Canada call 1-800-561-3372 for parts information.

## Technical Service

---

You may have further questions about assembling, operating, or maintaining this product. If so, you can visit our Technical Service web site at [www.desatech.com](http://www.desatech.com) or contact our Technical Service Department at 1-800-858-8501 (English Only). You may also write to:

DESA Specialty Products™

P.O. Box 90004

Bowling Green, KY 42102-9004

ATTN: Technical Service Specialty Products

When contacting DESA Specialty Products™, have ready

- Your Name
- Your Address
- Your Phone Number
- Model Number of Product
- Date of Purchase (Include copy of receipt for written requests).

## Repair Service

---

*Note:* Only use original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

Each Authorized Service Center is independently owned and operated.

### WARRANTY SERVICE

If product requires warranty service, return it to nearest Authorized Service Center. You must show proof of purchase. If faulty materials or workmanship caused damage, we will repair or replace product without charge. *Note:* Normal wear, misuse, abuse, neglect, or accidental damage is not covered under warranty.

### NON-WARRANTY SERVICE

If product requires service, return it to nearest Authorized Service Center. Repairs will be billed to you at regular repair list prices.

For additional Service Center or warranty information, call 1-800-858-8501 or visit our Technical Service web site at [www.desatech.com](http://www.desatech.com).

# Parts Centrals

## Ray's Portable Heater Service

3191 Myers Road  
Camino, CA 95709-9550  
530-644-7716

## Baltimore Electric

5 Manila Drive  
Hamden, CT 06514-0322  
203-248-7553  
1-800-397-7553

## Eckley's Small Engine

31617 Spruce Drive  
Eustis, FL 32726-9592  
352-357-6764

## Parts Company of America

1657 Shermer Road  
Northbrook, IL 60062-5362  
708-498-5900  
1-800-323-0620  
www.grainger.com

## Portable Heater Parts

342 North County Road 400 East  
Valparaiso, IN 46383-9704  
219-462-7441  
1-800-362-6951  
www.portableheaterparts.com  
sales@portableheaterparts.com  
techservice@portableheaterparts.com

## FBD

1349 Adams Street  
Bowling Green, KY 42103-3414  
270-846-1199  
1-800-654-8534  
franktalk@aol.com

## Lyons & Lyons Sales Co. Inc.

Glen Arm Road  
Glen Arm, MD 21057-9454  
410-665-6500  
1-800-333-5966  
lyonsco@erols.com

## Master Part Distributors

1251 Mound Avenue NW  
Grand Rapids, MI 49504-2672  
616-791-0505  
1-800-446-1446  
www.masterparts.net

## Hance Distributors, Inc.

12795 16th Avenue North  
Plymouth, MN 55441-4556  
763-559-2299  
www.hanceco.com

## Automotive Equipment Service

3117 Holmes  
Kansas City, MO 64109-1716  
816-531-9144  
1-800-843-3546  
www.aes-lawnparts.com

## Bowden Electric Motor Service

1681 S. Wesleyan Blvd.  
Rocky Mount, NC 27803  
252-446-4203

## East Coast Energy

10 East Route 36  
West Long Branch, NJ 07764-1501  
1-800-755-8809

## Forrest Lytle and Sons, Inc.

740 West Galbraith Road  
Cincinnati, OH 45231-6002  
513-521-1464

## Bortz Chain Saw Shop

Road #2, Box 64A  
Oley, PA 19547-9412  
610-987-6452

## 21st Century

2950 Fretz Valley Road  
Perkasie, PA 18944-4034  
215-795-0400  
1-800-325-4828

## Laportes

2444 N 5th Street  
Hartsville, SC 29550-7704  
843-332-0191

## MTA Distributors

555 Hickory Hills Blvd.  
Nashville, TN 37189-9244  
615-299-8777  
1-800-264-0225

## Webbs Appliance Center

1519 Church Street  
Nashville, TN 37203-3004  
615-329-4079  
1-800-899-4079

## Industrial Hardware

4109 Bainbridge Blvd.  
Chesapeake, VA 23324-1403  
804-543-2232  
1-800-788-0008  
catatam@erols.com

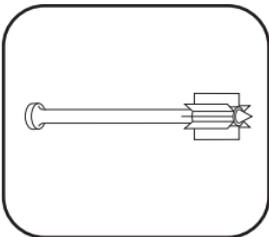
## Mills Lawn and Garden

928 Commonwealth Place  
Virginia Beach, VA 23464  
757-361-9293  
www.mills-parts.com

## Tuco Industrial Products

5223 180th Street SW  
Suite 4A-1  
Lynnwood, WA 98037-4506  
425-743-9533  
1-800-735-1268  
www.tucoheat.com

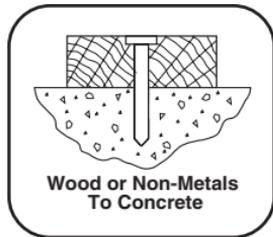
# Fasteners



**SP FASTENERS**



**Wood or Non-Metals  
To Steel**

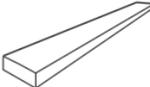


**Wood or Non-Metals  
To Concrete**

Fasten wood or nonmetals to concrete or steel.

# Application Chart

Power load and power fastener application information.

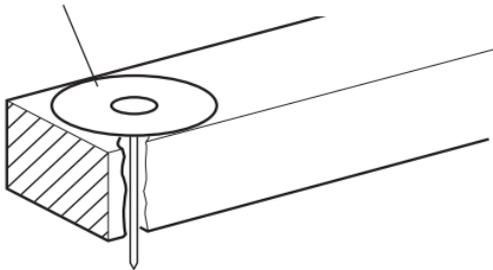
| For fastening this                                                                                             | to this                                                 | power fastener length                                                                                        | power load color                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Two by Fours<br>              | Concrete<br>Cement Block<br>Steel (3/16" to 3/8" Thick) |  2 1/2"<br>2 1/2"<br>2"     |  Yellow<br>Yellow<br>Yellow/Red |
| Furring Strips<br>            | Concrete<br>Cement Block<br>Steel (3/16" to 3/8" Thick) |  1 1/2"<br>1 1/2"<br>1 1/2" |  Yellow<br>Yellow<br>Yellow/Red |
| Electrical Junction Boxes<br> | Concrete<br>Cement Block<br>Steel (3/16" to 3/8" Thick) |  1"<br>1"<br>1"             |  Yellow<br>Green<br>Yellow/Red  |
| Conduit Clips<br>             | Concrete<br>Cement Block<br>Steel (3/16" to 3/8" Thick) |  1"<br>1"<br>1"             |  Yellow<br>Green<br>Yellow/Red  |
| Shelf Brackets<br>            | Concrete<br>Cement Block                                |  1"<br>1"                   |  Yellow<br>Green                |
| 1/4" Plywood or Pegboard<br>  | Concrete<br>Cement Block<br>Steel (3/16" to 3/8" Thick) |  1 1/4"<br>1 1/4"<br>1 1/4" |  Yellow<br>Yellow<br>Yellow/Red |

Power load listings are recommendations only. If you are in doubt, try a test fastening using the next lightest power load.

## IMPORTANT

- Recommended for use with Remington® power load strips and power fasteners.
- If power fastener goes below the top surface of the board, use penetrating control disc (\* see illustration below).
- Always wear approved goggles and hearing protection.

\*Use power fastener with penetration control disc, part number 015549.



| .27 CALIBER strip loads for powder actuated tools | Load Level Number | Load Strength | Color Code |        |
|---------------------------------------------------|-------------------|---------------|------------|--------|
|                                                   |                   |               | Case Body  | Head   |
|                                                   | 3                 | medium        | brass      | Green  |
|                                                   | 4                 | heavy         | brass      | Yellow |
|                                                   | 5                 | extra heavy   | brass      | Red    |





# Limited Warranty Agreement

---

DESA Specialty Products™ warrants the Remington® Power Pro™ Model 500V against defects in materials and workmanship for a period of one (1) year from the date of purchase.

If within one (1) year from the purchase date this Powder Actuated Tool fails due to a defect in material or workmanship, DESA Specialty Products™ will repair or replace the tool at DESA Specialty Products™ option. To obtain service under this warranty, contact DESA Specialty Products™ at the number/address listed below. You must have the Serial Number, Model Number, date of purchase and indicate the type of problem being experienced. DESA Specialty Products™ will send replacement part(s), repair or replace the tool at DESA Specialty Products™ option. However, this warranty does not cover failures caused by misusing or abusing the product (for proper use of this product, read and understand the operating instructions in this owners manual). Repairs made because of misuse, abuse, negligence or accident will be charged for at regular repair prices.

This express and limited warranty is the only warranty on this product, and to the full extent permitted by law there are no other warranties, express or implied, including warranties of merchantability and/or fitness for a particular purpose which extend beyond the terms of this express and limited warranty.

To the full extent permitted by law, the liability of DESA Specialty Products™ for personal injury, property damage or any other damage whatsoever, including consequential and incidental damages, arising from the sale or use of this product shall not exceed the purchase price of this product.

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 write:



P.O. Box 90004  
Bowling Green, KY 42102-9004  
[www.desatech.com](http://www.desatech.com)

## **U.S.A. ONLY**

For Technical Assistance on Your  
Remington® Powder Actuated Tool Or  
For Certification Procedures, Call  
Technical Services Department  
1-800-858-8501 Or  
Visit [www.desatech.com](http://www.desatech.com)