

EXP951

SEMIAUTOMATIC POWDER ACTUATED TOOL WITH POWER GRADING AND SILENCER OPERATORS MANUAL



WARNING!

**SEVERE INJURY CAN RESULT FROM FAILURE
TO OBEY ALL INSTRUCTIONS IN THIS MANUAL**

OPERATING PRECAUTIONS

 Failure to follow these precautions may result in severe injury.

1. Safety first, never point the tool at anyone.
2. Never cock the tool against hands.
3. Always unload tool prior to any disassembly, cleaning, work breaks or storage.
4. Never leave the tool unattended, store under lock & key.
5. Never load the tool until you are ready to use it.
6. Always insert fastener before cocking the tool.
7. If a load fails to fire, hold the tool firmly against the work surface for thirty (30) seconds. If the tool still fails to fire, release the trigger and let the tool back some from the work surface. Reposition the tool against the work surface, depress it and pull the trigger again. If the load still does not fire, wait another thirty (30) seconds, remove the tool from the work surface carefully while keeping it pointed in a safe direction. Remove the load from the tool and carefully dispose of it in a container of water. Never leave unfired loads on the floor or work surface. Always dispose of them properly.
8. Always inspect the tool prior to use to make sure that the tool is in good working order, has no fractured or broken parts, and that there are no obstructions in the barrel or load chamber.
9. If the tool does not work properly or is in need of repair, remove it from service immediately, tag it as NEEDS REPAIR and contact a distributor for repair.
10. Never modify any powder actuated tool.
11. Do not mix load colors and types.
12. Clean and inspect the tool daily or more often if necessary.
13. The user and any other persons in the immediate vicinity must wear safety goggles  and ear protection . Use the spall guard whenever possible.
14. A warning sign with the following text must be erected:
 "Danger! Powder Actuated Tool in use" where P.A.T. tools are in use.
15. Always store the tool in a secure and locked area when not in use.

REMEMBER SAFETY IS IN YOUR HANDS.

I 、EXP951 DESCRIPTION

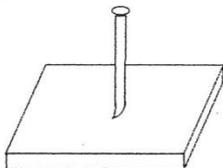
EXP951 Tool is a powder actuated tool that uses **.27** caliber, **10-shot** strip loads. There are three key features in the tool. One is infinite regulation of the driving power between limits. Another is the cartridges advanced to the chamber automatically. The other is silencer built in the **EXP951**. The tool is designed for installation into concrete or steel.

SPECIFICATIONS

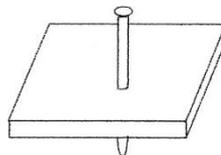
• Weight **2.3 kg** • Length **39 cm**

II 、ACCEPTABLE BASE MATERIAL

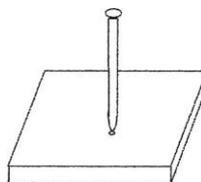
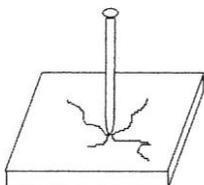
- I. Always check material being fastened into for hardness before attempting any fastening operation.
2. Using a fastener as a center punch, strike the fastener against the work surface using an average hammer blow and check the results as shown below (Wear safety goggles when performing this procedure).



If the fastener point is flattened, the material is too hard for power actuated fastening.



If the fastener penetrates the material easily, the material is too soft.



If the fastener cracks or shatters, the material is too brittle.

If the fastener makes a small Indentation into the material, the material is suitable for fastening.

III 、LOAD SELECTION

1. Only **6.8/11M** red and black cartridges are required for **950**.
2. In general, the red cartridge covers **90%** of all applications. The black cartridge is needed for the special fastening of steel to steel.
3. Failure to select the correct power level to be used could make a poor quality fastening.

LOAD COLOR	POWER REGULATION	POWER LEVEL
RED	1→3	LIGHT→EXTRA HEAVY
BLACK	1→3	MEDIUM→MAGNUM

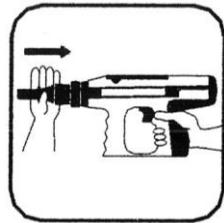
IV 、SAFETY INSTRUCTIONS

1. Never use the tool in a flammable or explosive area.
2. Have adequate ventilation at all times when discharging the tool.
3. Never load tool unless it is to be used immediately.
4. Never place your any body part over fastener loading end of tool.
5. Always hold the tool perpendicular to and firmly against the work surface when making a fastening.
6. Always perform the misfire procedure if the tool fails to fire.

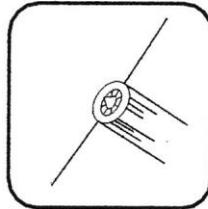
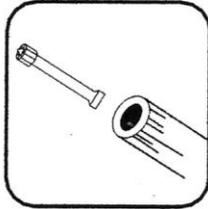
V 、FASTENING APPLICATIONS

- The correct fastener length required can be easily and quickly determined by choosing the embedment desired in the base material to achieve the best holding value, then trying the fastener length that is **3mm** longer than the embedment depth.
- When fastening into concrete, always maintain a minimum spacing of **70mm** from any free edges and **70mm** between fastenings. The concrete thickness should be at least three times the intended penetration depth.
- When fastening into steel, always maintain a minimum spacing of **12mm** from any edges and **40mm** between fastenings.

VI - 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 tool.



NOTE:
Failure to start with the lowest power level can result in overdrive condition and will result in damage to tool.

3. Select the proper power level of power load strips. Always insert power load strips through bottom of handle. Push power load strip in until even with bottom of handle.

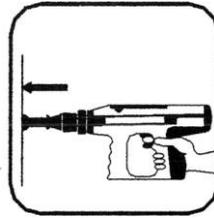
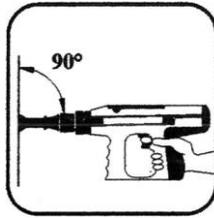


4. Adjust the fastener driving power by turning the regulating wheel :

1 = min. power

3 = max. power

Start with the min. power. If the fastener does not penetrate deep enough, increase the driving power.

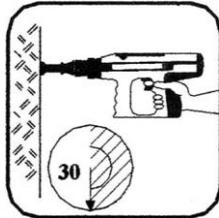


5 .Place the muzzle of tool perpendicular to work surface without tilting the tool.Push tool against work surface until sliding action of barrel stops.



6. 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.

VII · TOOL DISASSEMBLY

! **WARNING:** Always unload a power 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 stop is uncovered

(see Figure 1).

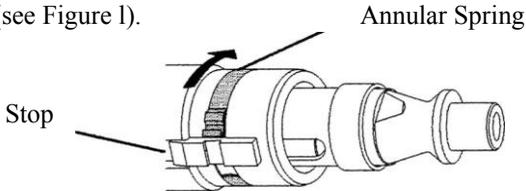


Figure 1 — Rotating Annular Spring to Uncover Stop

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

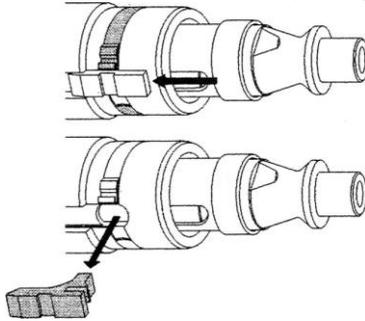


Figure 2 — Removing Stop

3. Pull barrel assembly out of housing.
4. Unscrew muzzle cap.
5. Remove piston assembly from barrel (see Figure 3).

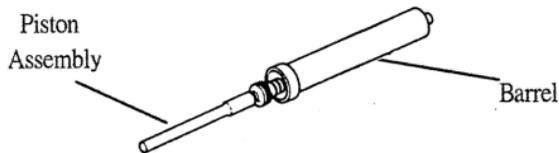
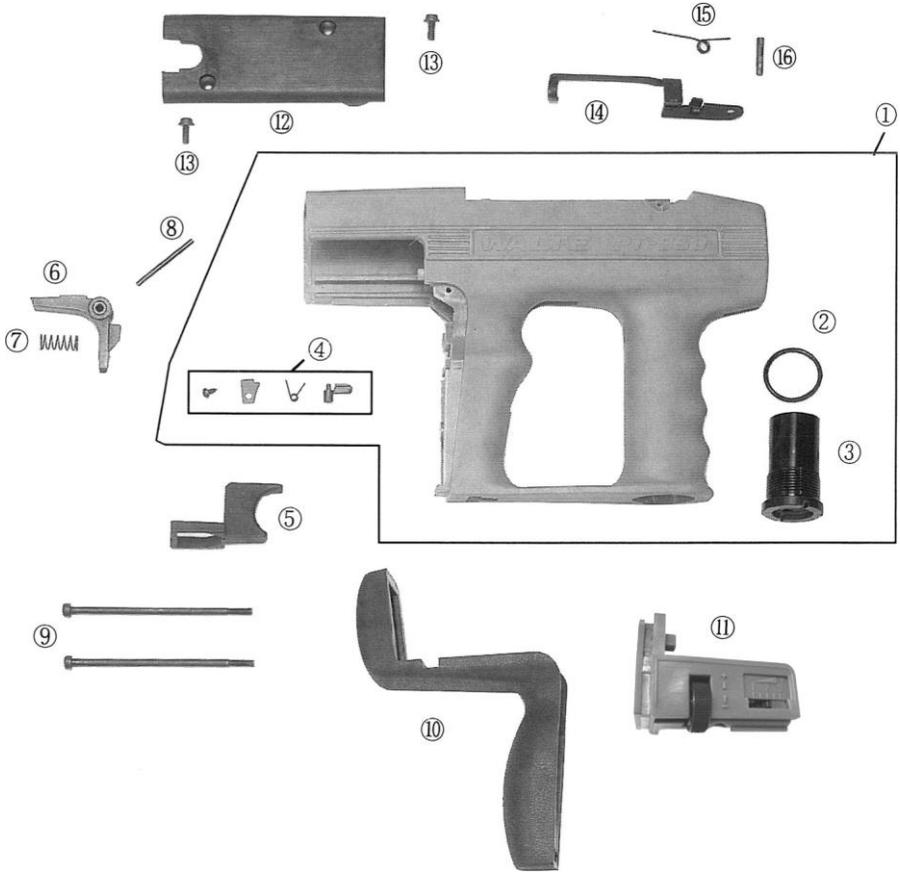
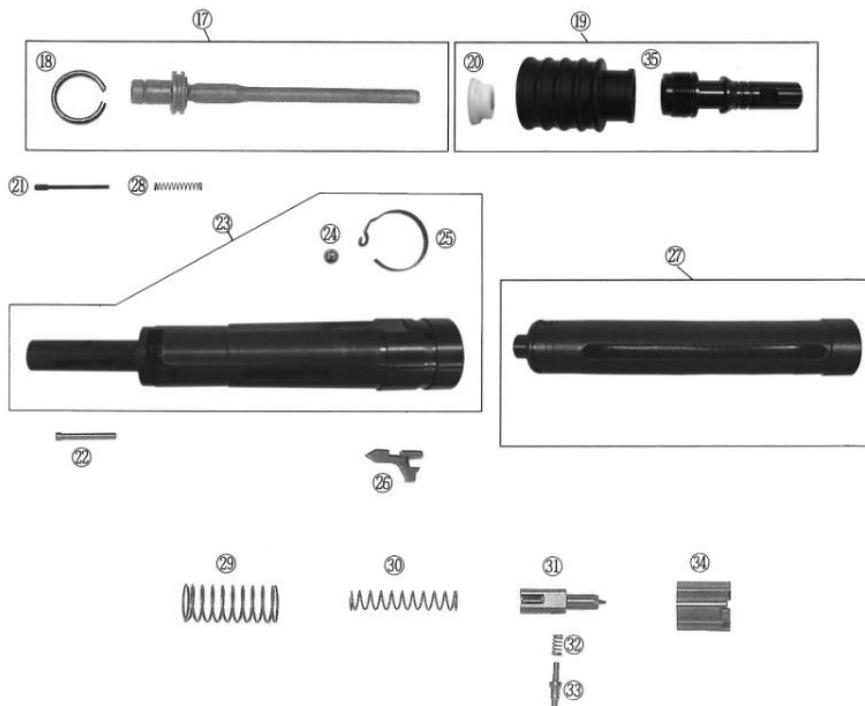


Figure 3 — Removing Piston Assembly from Barrel

VIII - EXP951 PARTS SCHEMATIC & LISTING



Key NO.	Part NO.	Description	Key NO.	Part NO.	Description
1	901011	Housing Assembly	9	456048	Bolt
2	450108	O Ring	10	901700	Rubber Pad Assembly
3	901800	Silencer Assembly	11	903600	Rear Pad & Power Indicator Assembly
4	901010	Pawl Assembly	12	901002	Cover
5	901007	Trigger	13	901005	Bolt
6	902000	Rock Arm Assembly	14	901301	Advance Bar
7	455041	Spring, Rock Arm	15	901302	Advance Spring
8	455042	Pin, Rock Arm	16	901303	Pin, Advance



Key NO.	Part NO.	Description	Key NO.	Part NO.	Description
17	901205-2	Piston Assembly (flat head)	28	901107	Spring, Pin Connector
	901219	Piston Assembly (recessed head)	29	902403	Spring, Sear Holder
18	452220	Piston Ring	30	454037	Spring, Firing Pin
19	902310	Guide Assembly	31	454100	Firing Pin Assembly
20	901210	Plastic Buffer	32	454034	Sear Spring
21	901105-A	Pin, Connector	33	454033	Sear Pin
22	901104	Push Pin	34	454035	Sear Holder
23	901100-A	Liner Assembly	35	902312	Guide Sleeve
24	600313	Ball			
25	901106	Annular Spring			
26	306012	Key, Stop			
27	901200-B	Barrel Assembly			

IX · CLEANING & MAINTENANCE

A · CLEANING & MAINTENANCE

The parts shown below should be cleaned each day, the housing each week. Please use a brush & cleaning oil to remove heavy build up. If oil is used, be sure to wipe parts dry to minimize new residue build-up.

- (1). piston
- (2). inside and outside of fastener guide
- (3). inside of liner
- (4). inside and outside of barrel

B · REASSEMBLY

1. Insert piston in the barrel.
2. Insert fastener guide in the barrel.
3. Insert the barrel in liner (Slot in the barrel must align with silencer)

X · TROUBLE SHOOTING

A · MISFIRE PROCEDURE

If the tool does not fire after squeezing trigger, continue to hold the depressed tool firmly against the work surface for at least **30** seconds. This will protect the operator and bystanders from injury in the event of a delayed firing. Then, carefully open the tool, remove the load strip, and put it into a container of water or other nonflammable liquid. Never carelessly discard, or throw into a trash container, any unfired strip load.

B · THE BUFFER IS DAMAGED BY OVERDRIVING A FASTENER

If the damaged buffer jams on the piston, you may strike protruding piston sharply against a hard surface. This will separate piston and buffer. Remove piston completely from fastener guide. Pull buffer off fastener guide to one side and press in a new one.

