Operator's Manual

CRAFTSMAN®

23 Gauge
3/8 - 3/4" Length
HEADLESS PINNER

Model No.
351.182920

CAUTION: Read and follow all Safety Rules and Operating Instructions before First Use of this Product.

- Safety
- Operation
- Maintenance
- Parts List

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

2697.00 Draft (03/17/99)

TABLE OF CONTENTS

Warranty 2
Safety Rules 2
Operation 2-3
Maintenance 4
Troubleshooting 5
Parts Illustration and List 6-7

WARRANTY

FULL ONE YEAR WARRANTY ON CRAFTSMAN AIR-DRIVE TOOLS

If this Craftsman air-drive tool fails due to a defect in material or workmanship within one full year from the date of purchase, return it to the nearest Sears Service Center in the United States, and Sears will repair it free of charge.

If this air-drive tool is used for commercial purposes, this warranty applies for only 90 days from the date of purchase.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

SAFETY RULES

- Air tool operators and all others in work area should always wear safety goggles complying with United States ANSI Z87.1 to prevent eye injury from fasteners and flying debris when loading, operating or unloading this tool.
- Never exceed operating pressure of 100 PSI.
- Always keep hands and body away from the fastener discharge area when air supply is connected to tool.
- Always disconnect tool from air supply when servicing or adjusting tool and when tool is not in use.
- Do not operate when nose of tool is not in contact with work.
- Never load the tool until you are ready to use it.
- Never depress tool trigger when loading.
- Always load with nose of tool pointing away from you and others.
- Never point tool at yourself or others.
- Never carry tool with trigger depressed.
- Do not use oxygen, combustible gas or high pressure compressed gas as the air supply for the tool.
- Always use tool at safe distance from other people in work area.
- Do not attempt to discharge fastener into hard or brittle materials such as concrete, steel or tile.
- Do not connect female quick-disconnect coupling to tool side of air line.
- Connect male, free-flow nipple to tool side of air line so that tool is depressurized when hose is disconnected.
- Do not use a hose swivel with this tool.
- Use Sears recommended fasteners only.

OPERATION

DESCRIPTION

The Craftsman Headless Pinner drives 23 gauge pins from ⅜ to ¾" long. 360° directional exhaust prevents staining on workpiece. Safety trigger guard helps prevent accidental discharge. Die cast aluminum body with textured grip minimizes operator fatigue. Large capacity, bottom loading magazine with positive quick action latch makes loading easy. Fast cycle time increases productivity. Slanted nosepiece provides operator with greater visibility for precise fastener placement. Rigid nosepiece reduces jamming. The headless pinner is excellent for molding and decorative trim, glazing strips, mirror and picture frame assembly, and window beading.

SPECIFICATIONS

Capacity . . . . . 200 pins
Pin length . . . . . ⅜ to ¾"
Pin size . . . . . 23 gauge (.023")
Operating pressure . . . . . 60-100 PSI
Air inlet . . . . . ¼" N.P.T.
Length . . . . . 8"
Height . . . . . 6"
Width . . . . . 1.75"
Weight . . . . . 1.50 lbs.

AIR SUPPLY LINE

Refer to Figure 1 (page 3).

- The air tool operates on compressed air at pressures from 60 to 100 PSI.
- Never exceed maximum pressure.

Minimum air requirements for tool: Average working SCFM 2.6 at 90 PSI.

WARNING: Keep hands and body away from discharge area of tool when connecting air supply. Always disconnect tool from air supply when servicing or adjusting tool and when tool is not in use.

- Air operated tools require clean, dry, compressed air to ensure top performance, low maintenance and long life.
- Dirt and abrasive materials present in all air lines will damage tool O-rings, valves and cylinders.
- Moisture will reduce tool performance and life if not removed from compressed air.
- A filter-regulator system is required and should be located as close to tool as possible (see Figure 1, page 3). A distance of less than 15 feet is recommended.
- Keep air filter clean. A dirty filter will reduce the air pressure to the tool causing a reduction in power and efficiency.
- The air supply system must be able to provide air pressure of 60 to 100 pounds per square inch at tool.
- All hoses and pipes in the air supply system must be clean and free of moisture and foreign particles.
- Do not mount swivel connector in air supply line.
- The air pressure should be properly regulated.
- Different workpiece materials and fastener lengths will require different operating pressure.
- Be sure all connections in air supply system are sealed to prevent air loss.

- Never connect a female quick-disconnect coupling to the tool side of air line connection. A male, free-flow coupling should be connected to the tool side of air line connection.

WARNING: The female coupling provides a seal preventing loss of compressed air from compressor tank when disconnected from male coupling. If connected to tool side of air supply, the female coupling could seal a compressed air charge in the tool which could discharge if the trigger is actuated.

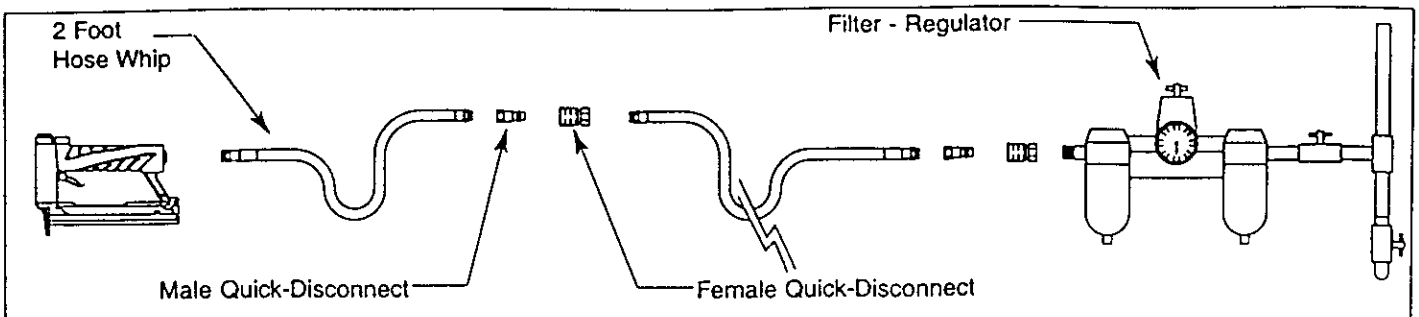


Figure 1 - Air Supply Line

LOADING

Refer to Figures 2 & 5 (pages 3 and 6).

WARNING: Disconnect tool from air supply. Always load with nose of tool pointing away from you and others. Always wear safety goggles that comply with United States ANSI Z87.1.

WARNING: Never depress trigger when loading.

NOTE: For best results use Sears fasteners only.

- Turn tool upside down. Depress latch (Fig. 5, No. 47) and slide magazine cover (Fig. 5, No. 46) back to open. Insert fasteners into magazine (see Figure 2). Be sure fasteners point away from tool.
- Slide magazine forward into fasteners until latch snaps into place, locking magazine.

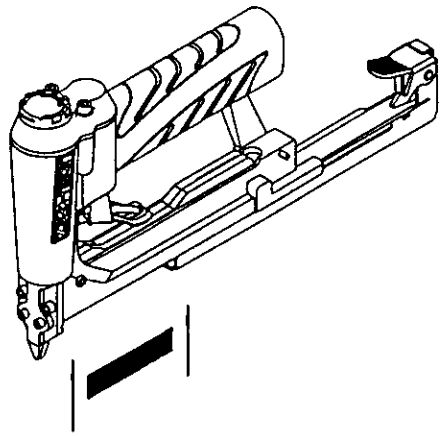


Figure 2 - Loading Pins

PINNING OPERATION

Refer to Figures 3 & 5 (pages 3 and 6).

WARNING: Do not operate tool without fasteners or damage to tool may result. Never fire fasteners into the air because fasteners may injure operator or others and damage to tool may result. Never point the tool at yourself or others. Never carry tool with trigger depressed.

- Hold body firmly and position nose (Key No. 32) above workpiece where fastener is to be applied. Pull trigger (Key No. 23)to drive fastener into workpiece (see Figure 3).
- Tool is provided with a safety guard (see Figure 3) to prevent accidental discharge. Tool will fire only if trigger is pulled. Pulling the guard (Key No. 24) will **NOT** discharge fasteners.

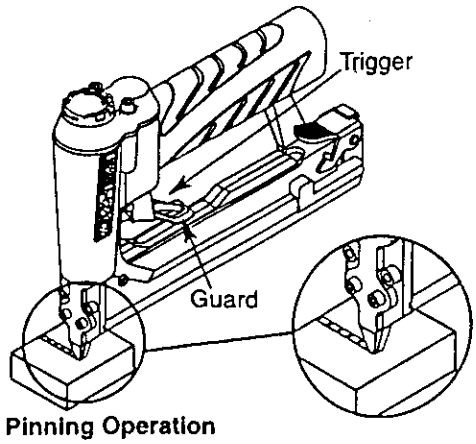


Figure 3 - Pinning Operation

OPERATING PRESSURE

- Use only enough air pressure to perform the operation. Air pressure in excess of that which is required will make the operation inefficient and may cause premature wear or damage to the tool.
- Determine minimum air pressure required by driving some test fasteners into the workpiece. Set air pressure so that test fasteners are driven down flush with the work surface. Fasteners driven too deep may damage workpiece.

EXHAUST DEFLECTOR

Refer to Figures 4 & 5 (pages 4 and 6).

- Exhaust deflector can be positioned to point in any direction (full 360° movement). Reposition deflector (Fig. 5, No. 1) by grasping firmly and rotating to the desired position.

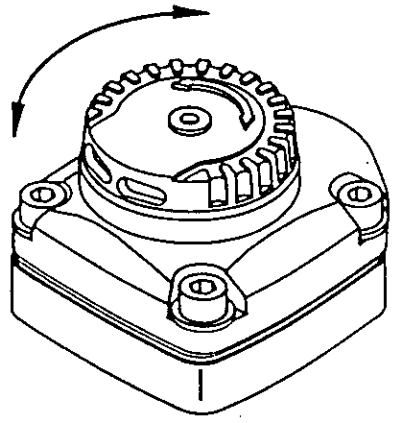


Figure 4 - Exhaust Deflector Adjustment

MAINTENANCE

Refer to Figure 5 (page 6).

MAGAZINE AND PISTON-RAM

- Keep magazine and nose clean and free of any dirt, lint or abrasive particles.

The tip of the ram (Fig. 5, No. 10) can become dented or rounded over time.

- Square off the tip of the ram with a clean, fine hand file to extend the life of the ram and tool. Fastener driving will be more consistent if the ram tip is kept clean and square.

REBUILD KITS

Rebuild kits are available as spare parts (see page 7). Tools should be rebuilt if tool fails to operate properly after extended use. See troubleshooting to determine required replacement parts.

Disconnect tool from air supply before attempting repair or adjustment.

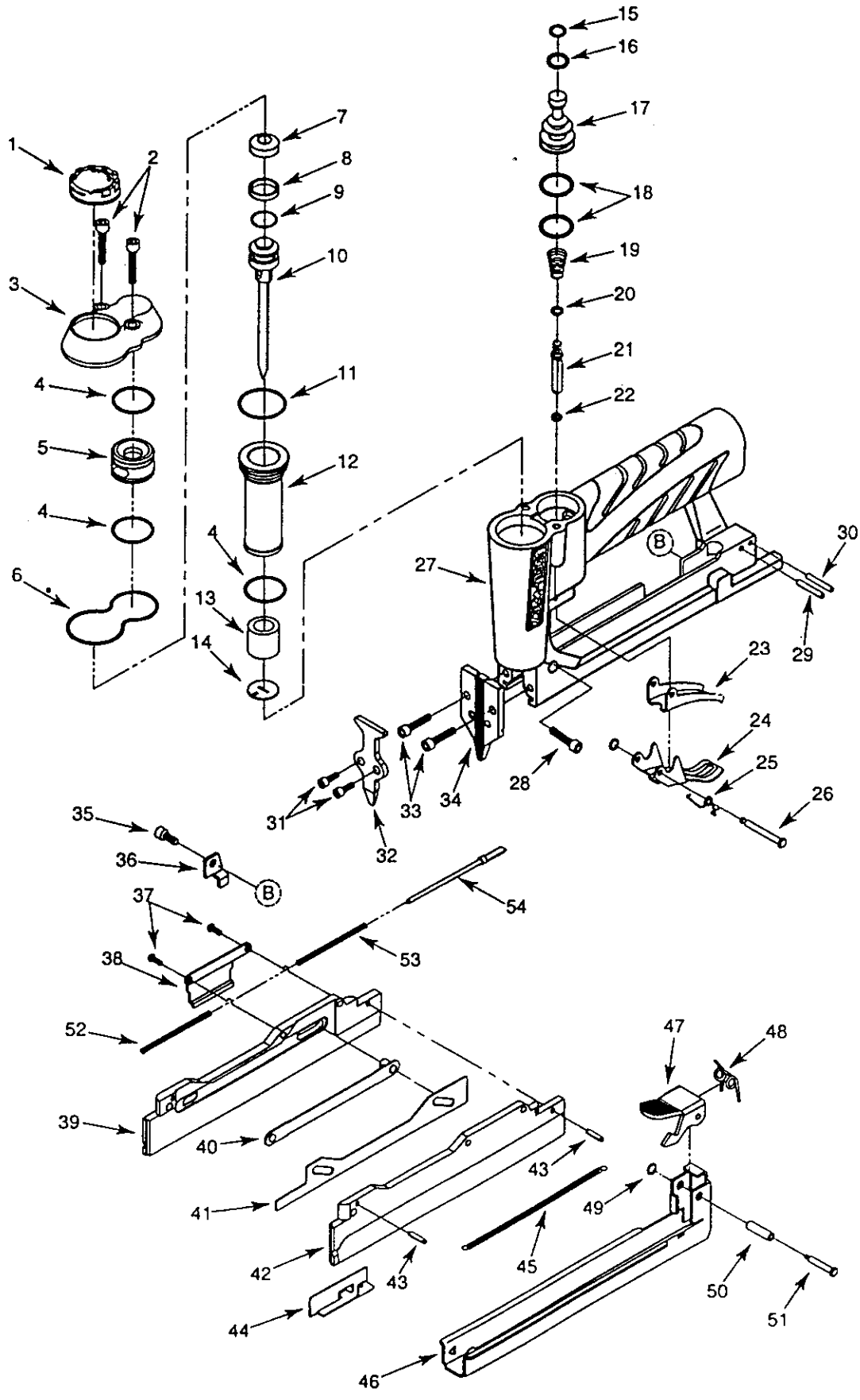
NOTE: When replacing O-rings or cylinder, lubricate with air tool oil before assembly.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Trigger cap leaks air	1. O-rings damaged	1. Check and replace damaged O-rings (Fig. 5, Nos. 20 and 22)
	2. Valve stem or O-rings damaged	2. Check and replace damaged stem or O-rings (Fig. 5, Nos. 20, 21 and 22)
Cap leaks air	1. Cap bolts loose	1. Tighten bolts (Fig. 5, No. 2)
	2. Damaged gasket	2. Check and replace damaged gasket (Fig. 5, No. 6)
Nose leaks air	1. Damaged cylinder O-ring	1. Check and replace damaged O-ring (Fig. 5, No. 4)
	2. Damaged Bumper	2. Check and replace damaged bumper (Fig. 5, No. 13)
	3. Ram guide damaged	3. Check and replace ram guide (Fig. 5, No. 14)
Tool will not operate	1. Insufficient air supply	1. Check air supply
	2. Damaged or worn head valve O-rings	2. Replace damaged or worn O-rings (Fig. 5, No. 4)
	3. Head valve binding	3. Clean and lubricate cap and valve (Fig. 5, Nos. 3 and 5)
Tool operates slowly or loses power	1. Damaged or worn O-rings	1. Check and replace damaged or worn O-rings
	2. Damaged trigger assembly	2. Check and replace trigger assembly
	3. Build-up on ram	3. Clean piston-ram assembly (Fig. 5, No. 10)
	4. Cylinder not sealed on bumper properly	4. Disassemble cylinder and assemble properly
	5. Insufficient air supply	5. Check air supply
Tool skips fasteners or inconsistent operation	1. Worn or damaged bumper	1. Check and replace bumper (Fig. 5, No. 13)
	2. Build-up on ram or nose	2. Clean piston-ram assembly (Fig. 5, No. 10) and inside of nose (Fig. 5, No. 32)
	3. Insufficient air supply	3. Check air supply
	4. Damaged or worn piston O-ring	4. Check and replace O-ring and seal ring (Fig. 5, No. 9)
	5. Damaged magazine spring	5. Check and replace spring (Fig. 5, No. 45)
	6. Magazine-nose bolts loose	6. Align nose with magazine and tighten bolts (Fig. 5, No. 31)
	7. Fasteners too short	7. Use Sears recommended fasteners only
	8. Damaged fasteners	8. Discard damaged fasteners
	9. Incorrect fastener size	9. Use Sears recommended fasteners only
	10. Cap leaks	10. Tighten cap bolts (Fig. 5, No. 2). Check and replace damaged gasket (Fig. 5, No. 6)
	11. Damaged trigger valve O-rings	11. Check and replace damaged O-ring and seal (Fig. 5, Nos. 20 and 22)
	12. Bent or damaged ram	12. Check and replace damaged piston-ram assembly (Fig. 5, No. 10)
	13. Dirty magazine	13. Clean magazine and lubricate with air tool oil
	14. Damaged or worn magazine	14. Check and replace magazine (Fig. 5, No. 39)

Model 351.182920

Figure 5 - Replacement Parts Illustration Headless Pinner



REPLACEMENT PARTS LIST FOR STAPLER

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	9960.00	Exhaust Cover	1
2	6197.00	4-0.7 x 20mm Socket Head Bolt	2
3	9961.00	Deflector	1
4	9962.00	18.77 x 1.78mm O-Ring	3
5	9963.00	Trigger Valve Head	1
6	9964.00	Gasket	1
7	9965.00	Seal	1
8	9966.00	Split Ring	1
9	9967.00	9.25 x 1.78mm O-Ring	1
10	9968.00	Piston Ram Assembly	1
11	9969.00	21.95 x 1.78mm O-Ring	1
12	9970.00	Cylinder	1
13	9971.00	Bumper	1
14	9972.00	Ram Guide	1
15	9973.00	6.07 x 1.78mm O-Ring	1
16	9974.00	7.60 x 2.62mm O-Ring	1
17	9975.00	Trigger Valve	1
18	9976.00	13.95 x 2.62mm O-Ring	2
19	9977.00	Spring	1
20	9978.00	1.78 x 1.78mm O-Ring	1
21	9979.00	Valve Stem	1
22	9980.00	2.90 x 1.78mm O-Ring	1
23	9981.00	Trigger	1
24	9982.00	Guard	1
25	9983.00	Spring	1
26	9984.00	Clevis Pin	1
27	9985.00	Body	1

KEY NO.	PART NO.	DESCRIPTION	QTY.
28	6395.00	4-0.7 x 22mm Socket Head Bolt	1
29	9986.00	3 x 10mm Pin	1
30	3378.00	2.5 x 14mm Spring Pin	1
31	5809.00	4-0.7 x 6mm Socket Head Bolt	2
32	9987.00	Nose	1
33	6097.00	4-0.7 x 14mm Socket Head Bolt	2
34	9988.00	Driver Guard	1
35	6086.00	4-0.7 x 8mm Socket Head Bolt	1
36	9989.00	Stop Plate	1
37	5820.00	3-0.5 x 10mm Socket Head Screw	2
38	9990.00	Cover Plate	1
39	9991.00	Magazine	1
40	9992.00	Connecting Plate Assembly	1
41	9993.00	Plate	1
42	9994.00	Magazine Case	1
43	9995.00	2.5 x 8mm Spring Pin	2
44	9996.00	Pusher	1
45	9997.00	Spring	1
46	9998.00	Magazine Cover	1
47	9999.00	Latch	1
48	4823.00	Spring	1
49	4824.00	2.05 x 2.62mm O-Ring	2
50	2692.00	Bushing	1
51	2693.00	Clevis Pin	1
52	2694.00	Spring	1
53	2695.00	Spring	1
54	2696.00	Draw Bar	1
Δ	2697.00	Operator's Manual	1

Δ Not Shown

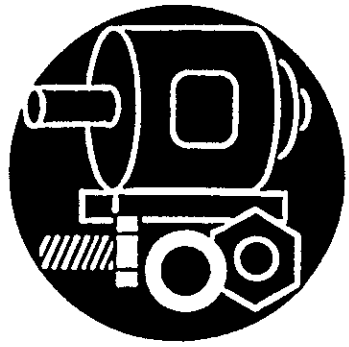
Rebuild Kits			
Δ	2676.00	Trigger Rebuild Kit Fig. 5, Nos. 15, 16, 19, 20, 21, 22 and two 18	1
Δ	2677.00	Head Valve Rebuild Kit Fig. 5, Nos. 6 and two 4	1
Δ	2678.00	Piston-Ram Assembly Rebuild Kit Fig. 5, Nos. 4, 9, 10, 11, and 13	1

For the repair or replacement parts you need delivered directly to your home
Call 7 am - 7 pm, 7 days a week

1-800-366-PART

(1-800-366-7278)

Para ordenar piezas con entrega a domicilio – 1-800-659-7084



For major brand repair service
Call 24 hours a day, 7 days a week

1-800-4-REPAIR

(1-800-473-7247)

Para pedir servicio de reparación
1-800-659-7084

For the location of a Sears Parts and Repair Center in your area
Call 24 hours a day, 7 days a week

1-800-488-1222

When requesting service or ordering parts, always provide the following information:

- Product Type
- Model Number
- Part Number
- Part Description

SEARS
REPAIR SERVICES
America's Repair Specialists