

SEARS Operator's Manual

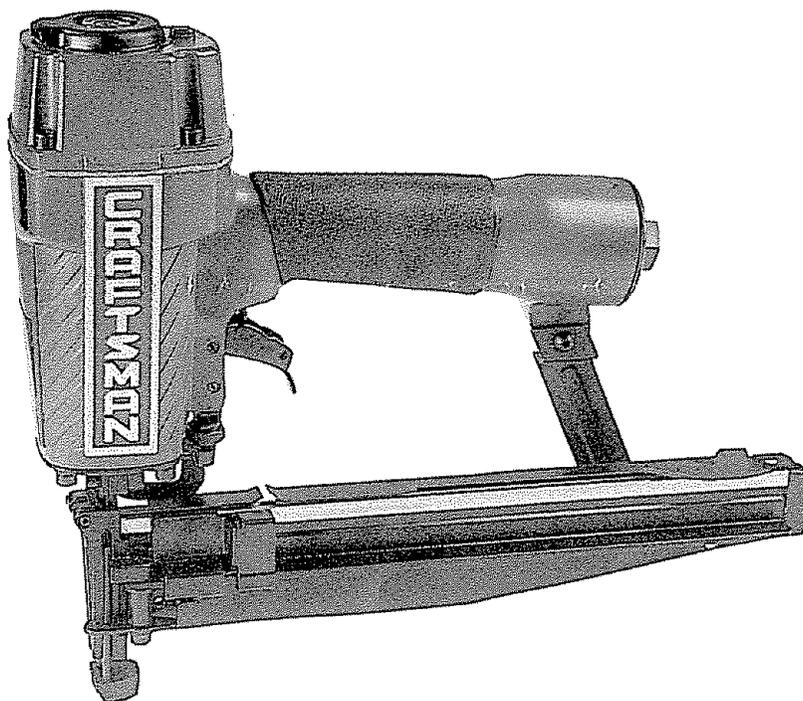
CRAFTSMAN®

16 Gauge

3/4 - 2 1/2" Length

FINISH NAILER

Model No.
351.183210



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

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

4499.01 Draft (01/23/97)

SAFETY

OPERATION

MAINTENANCE

PARTS LIST

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WARRANTY

FULL ONE YEAR WARRANTY ON SEARS/CRAFTSMAN FINISH NAILER

If this Sears/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 contact trip 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 disconnected from hose.
- Do not use a hose swivel with this tool.
- Use Sears recommended fasteners only.

OPERATION

Refer to Figures 1, 2, 3, 4 and 5.

DESCRIPTION

The Sears Craftsman 16 Gauge Finish Nailer drives nails from ¾" to 2½" long. Die cast aluminum, textured finish body with cushion grip minimizes operator fatigue. Large capacity, top loading magazine makes loading easy. Safety feature disables tool unless contact trip is pressed against workpiece. Tapered nosepiece provides operator with greater visibility for precise fastener placement. Quick release nose cover allows easy access to jammed fasteners. Adjustment knob controls depth of fastener. Air deflector can be adjusted to any direction. The 16 Gauge Finish Nailer is excellent for interior and exterior trim work, door and window manufacturing, furniture making and cabinetry.

SPECIFICATIONS

Capacity	100 finish nails
Nail size	16 gauge (.062" x .052")
Nail lengths	¾" to 2½"
Operating pressure	60-100 PSI
Air inlet	¼" N.P.T.F
Length	13"
Height	11"
Width	3"
Weight	4.2 lbs

FINISH NAILS

918345	16 gauge finish nails, ¾" long
918344	16 gauge finish nails, 1¼" long
918346	16 gauge finish nails, 1½" long
918347	16 gauge finish nails, 2" long
918368	16 gauge finish nails, 2½" long

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 3.2 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, lubricated 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-lubricator 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.
- The lubricator should be filled with a non-detergent air tool oil.
- All hoses and pipes in the air supply system must be clean and free of moisture and foreign particles.
- Never connect a female quick-disconnect coupling to the tool side of air system. A male, free-flow coupling should be connected to the tool side of air system.

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 tool trigger is actuated.

- Do not mount swivel connector in air supply line.
- The air pressure should be properly regulated.
- Different workpiece materials and different fastener lengths will require different operating pressure.
- Be sure all connections in air supply system are sealed to prevent air loss.

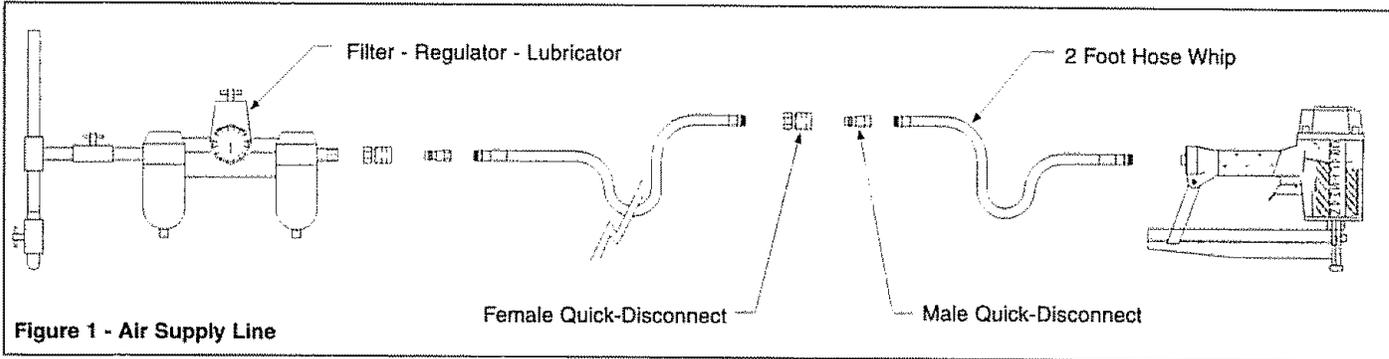


Figure 1 - Air Supply Line

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.

NOTE: For best results use Sears fasteners only.

- Slide pusher handle (Key No. 70) towards rear of tool until it locks into position.
- Insert fasteners into magazine (see Figure 2).
- Hold pusher handle firmly and release by pushing latch bracket (Key No. 73) towards bracket (Key No. 80). Allow pusher to gently slide forward against fasteners.

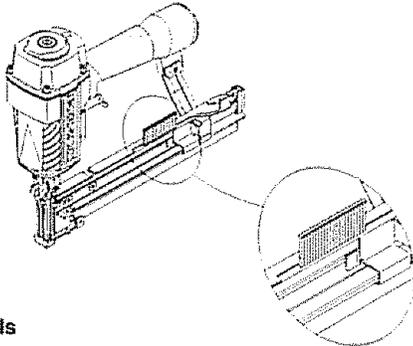


Figure 2
Loading Nails

NAILING OPERATION

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

WARNING: Never operate tool unless contact trip is in contact with workpiece. 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.

- The air tool is equipped with a contact trip safety mechanism (see Figure 3, page 3) that disables tool unless contact trip is pushed against work. Hold body firmly and press contact trip on workpiece where fastener is to be applied. Pull trigger to drive fastener into workpiece.

- The tool can also be operated by holding trigger depressed and pushing contact trip against workpiece. This operating procedure provides rapid-fire fastener driving. Never operate tool unless contact trip is in contact with workpiece.
- The driven depth of the fastener can be changed by turning the adjusting knob (Key No. 53) in either direction.

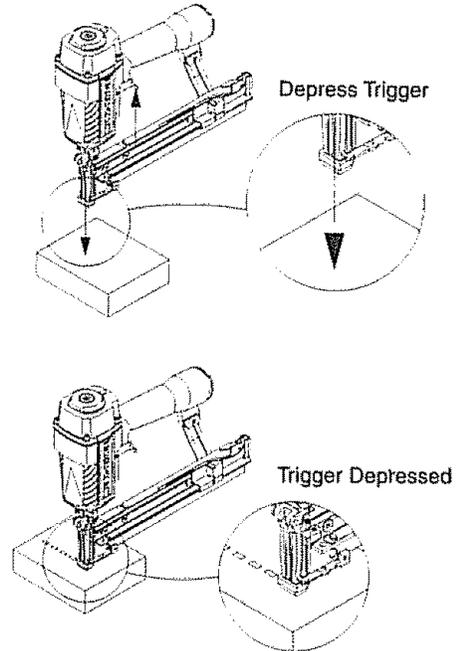


Figure 3
Contact Trip Operation

WARNING: All air power fastening tools recoil when operated. This recoil is caused by rapid driving of the fastener. Tool may bounce from recoil causing a second, unwanted fastener to be driven. Reduce tool bounce by holding tool firmly in hand and pressing tool gently against workpiece. This will allow recoil of tool to bounce away from workpiece preventing the driving of second fastener.

QUICK RELEASE NOSE

Refer to Figure 5 (page 6).

The tool is equipped with a quick release nose for clearing jammed fasteners.

- If a fastener jams in the tool, disconnect the air supply from the tool. Open the magazine and remove any fasteners. Push the nose cover latch (Key No. 63) and release the nose cover. Remove the jammed fastener and secure the latch. Reload the fasteners and reconnect the air supply.

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 at any angle (full 360° movement).
- To change direction of exhaust, grip deflector (Key No. 11) firmly and rotate to desired position.

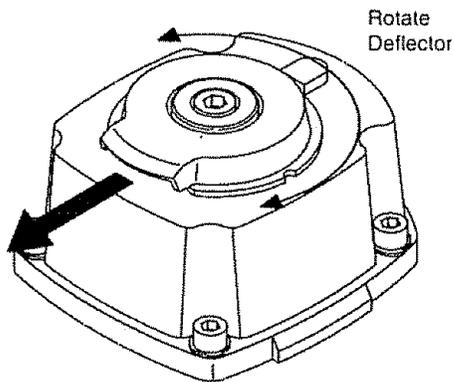


Figure 4 - Exhaust Deflector Adjustment

MAINTENANCE

Refer to Figure 5 (page 6).

LUBRICATION

Lubricate tool daily with quality air tool oil. If no air line lubricator is used, place five or six drops of oil into air inlet cap (Key No. 3) of tool everyday.

MAGAZINE AND PISTON/RAM

- Keep magazine and contact trip area clean and free of any dirt, lint or abrasive particles.

The tip of the ram (Key No. 25) 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 firing will be more consistent if the ram tip is kept clean and square.

SAFETY MECHANISM

Inspect contact trip safety mechanism daily for proper operation. Do not operate tool if mechanism is not operating properly.

Perform the following procedures to test safety mechanism:

- Leave trigger untouched while pushing contact trip into workpiece. **Tool must not fire.**
- Pull trigger while contact trip is clear of work and pointed away from operator and others. **Tool must not fire.**
- Depress and hold trigger. Push contact trip against work where fastener is needed. The tool should drive only one fastener each time the contact trip is pushed against workpiece.

If contact trip mechanism does not operate properly, repair tool immediately through Sears Service Center.

Replace any damaged or missing parts. Use the parts list to order parts.

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	<ol style="list-style-type: none"> 1. O-ring damaged 2. O-rings damaged 	<ol style="list-style-type: none"> 1. Check and replace damaged O-ring (Key No. 44) 2. Check and replace damaged O-rings (Key Nos. 34, 36, 37, 39, 42 and 44)
Cap leaks air	<ol style="list-style-type: none"> 1. Cap bolts loose 2. Damaged cap gasket 3. Damaged O-ring 	<ol style="list-style-type: none"> 1. Tighten bolts (Key No. 5) 2. Check and replace damaged gasket (Key No. 15) 3. Check and replace damaged O-ring (Key No. 10)
Nose leaks air	<ol style="list-style-type: none"> 1. Damaged base O-ring 2. Damaged bumper 3. Ram guide damaged 4. Nose bolts loose 	<ol style="list-style-type: none"> 1. Check and replace damaged base O-ring (Key No. 26) 2. Check and replace damaged bumper (Key No. 29) 3. Check and replace ram guide (Key No. 32) 4. Tighten bolts (Key No. 5)
Tool will not operate	<ol style="list-style-type: none"> 1. Insufficient air supply 2. Damaged or worn head valve O-rings or seal 3. Damaged head valve spring 4. Head valve binding in cap 5. Insufficient lubrication 	<ol style="list-style-type: none"> 1. Check air supply 2. Replace damaged or worn O-rings or seal (Key Nos. 10, 12, 19, 20 and 22) 3. Replace damaged spring (Key No. 18) 4. Clean and lubricate cap and head valve (Key Nos. 4 and 21) 5. Place five or six drops of air tool oil into inlet cap (Key No. 3)
Tool operates slowly or loses power	<ol style="list-style-type: none"> 1. Damaged head valve spring 2. Damaged or worn O-rings 3. Damaged trigger assembly 4. Build-up on ram 5. Cylinder not sealed on bumper properly 6. Insufficient air supply 7. Insufficient lubrication 8. Head valve poorly lubricated 	<ol style="list-style-type: none"> 1. Check and replace spring (Key No. 18) 2. Replace damaged or worn O-rings 3. Check and replace trigger assembly 4. Clean and lubricate piston/ram assembly (Key No. 25) 5. Disassemble cylinder and assemble properly 6. Check air supply 7. Place five or six drops of air tool oil into inlet cap (Key No. 3) 8. Disassemble head valve (Key No. 21). Clean, lubricate and assemble properly
Tool skips fasteners or inconsistent operation	<ol style="list-style-type: none"> 1. Worn or damaged bumper 2. Build-up on ram 3. Insufficient air supply 4. Damaged or worn piston O-ring 5. Damaged magazine spring 6. Magazine-nose bolts loose 7. Fasteners too short 8. Damaged fasteners 9. Incorrect fastener size 10. Head valve O-rings leak 11. Damaged trigger valve O-rings 12. Bent or damaged ram 13. Dirty magazine 14. Damaged or worn magazine 15. Insufficient lubrication 	<ol style="list-style-type: none"> 1. Check and replace bumper (Key No. 29) 2. Clean and lubricate piston/ram assembly (Key No. 25) 3. Check air supply 4. Check and replace O-ring (Key No. 24) 5. Check and replace spring (Key No. 68) 6. Tighten bolts 7. Use Sears recommended fasteners only 8. Discard damaged fasteners 9. Use Sears recommended fasteners only 10. Check and replace damaged O-rings (Key Nos. 19, 20 and 22) 11. Check and replace damaged O-rings (Key Nos. 34, 36, 37, 39, 42 and 44) 12. Check and replace damaged piston/ram assembly (Key No. 25) 13. Clean magazine and lubricate with air tool oil 14. Check and replace magazine (Key No. 56) 15. Place five or six drops of air tool oil into inlet cap (Key No. 3)

MAINTENANCE

Model 351.183210

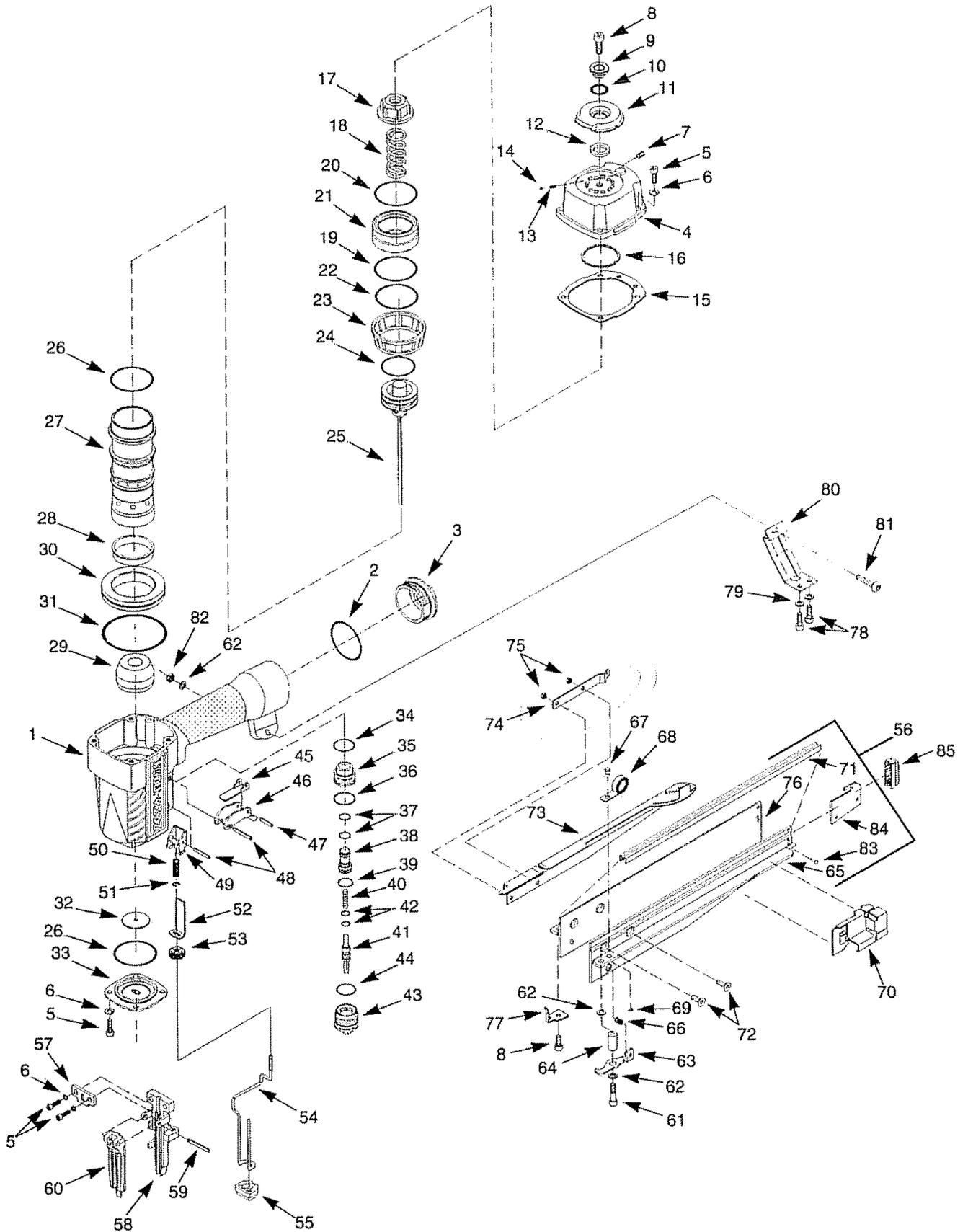


Figure 5 - Replacement Parts Illustration

REPLACEMENT PARTS LIST FOR NAILER

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	4372.00	Body	1
2	4373.00	42.5 x 2.6mm O-Ring	1
3	4374.00	Inlet Cap	1
4	4349.00	Cap	1
5	7482.00	5-0.8 x 18mm Socket Head Bolt	10
6	1808.00	5mm Spring Washer	10
7	1210.00	5-0.8 x 5mm Set Screw	1
8	5331.00	5-0.8 x 12mm Socket Head Bolt	2
9	4350.00	Bushing	1
10	6069.00	13 x 2mm O-Ring	1
11	4351.00	Deflector	1
12	4352.00	Rubber Washer	1
13	4353.00	Spring	1
14	4354.00	Steel Ball	1
15	4355.00	Cap Gasket	1
16	4356.00	Seal Gasket	1
17	4357.00	Piston Stop	1
18	4358.00	Spring	1
19	4359.00	44.5 x 2mm O-Ring	1
20	4360.00	35.5 x 2mm O-Ring	1
21	4361.00	Head Valve Piston	1
22	6111.00	35.7 x 3.5mm O-Ring	1
23	4362.00	Cylinder Ring	1
24	4363.00	32.9 x 3.5mm O-Ring	1
25	4364.00	Piston Ram Assembly	1
26	6051.00	37.5 x 1.8mm O-Ring	2
27	4365.00	Cylinder	1
28	4366.00	Cylinder Ring	1
29	4367.00	Bumper	1
30	4368.00	Cylinder Spacer	1
31	4369.00	60 x 2mm O-Ring	1
32	4370.00	Ram Guide	1
33	4371.00	Base	1
34	6050.00	13.8 x 2.4mm O-Ring	1
35	6149.00	Valve	1
36	6150.00	16.8 x 1.3mm O-Ring	1
37	6151.00	5.8 x 1.9mm O-Ring	2
38	6153.00	Valve Plunger	1
39	6136.00	8.8 x 1.9mm O-Ring	1
40	6155.00	Spring	1
41	6156.00	Plunger	1
42	6157.00	2.5 x 1.5mm O-Ring	2
43	6159.00	Trigger Cap	1

Δ Not Shown

* Standard hardware item available locally

Recommended Accessories

Δ	16 Gauge Finish Nails, ¾" Long	918345
Δ	16 Gauge Finish Nails, 1¼" Long	918344
Δ	16 Gauge Finish Nails, 1½" Long	918346
Δ	16 Gauge Finish Nails, 2" Long	918347
Δ	16 Gauge Finish Nails, 2½" Long	918368

KEY NO.	PART NO.	DESCRIPTION	QTY.
44	6158.00	19.8 x 2.4mm O-Ring	1
45	6162.00	Trigger Lever	1
46	6161.00	Trigger	1
47	6163.00	3 x 16mm Spring Pin	1
48	1873.00	3 x 22mm Spring Pin	2
49	4394.00	Safety Guide	1
50	7501.00	Safety Spring	1
51	4395.00	Retaining Ring	1
52	4396.00	Contact Trip Extension	1
53	4397.00	Adjusting Knob	1
54	4398.00	Contact Trip	1
55	4399.00	Contact Trip Pad	1
56	4400.00	Magazine Assembly	1
57	4375.00	Nose Cover	1
58	4376.00	Ram Guide	1
59	0971.00	4 x 24mm Spring Pin	1
60	4377.00	Nose Cover	1
61	5805.00	5-0.8 x 30mm Socket Head Bolt	1
62	STD851005	5mm Flat Washer*	3
63	4378.00	Latch	1
64	4379.00	Magazine Spacer	1
65	4380.00	Magazine Bracket	1
66	4381.00	Latch Spring	1
67	4382.00	Retaining Pin	1
68	7488.00	Spring	1
69	6384.00	3 CMI-3 E Ring	1
70	4383.00	Pusher	1
71	4384.00	Steel Channel	1
72	6397.00	4-0.7 x 10mm Flat Head Screw	2
73	4385.00	Latch Bracket	1
74	4386.00	Spring	1
75	6080.00	4-0.7mm Locknut	2
76	4387.00	Magazine Bracket	1
77	4388.00	Contact Trip Guide	1
78	6086.00	4-0.7 x 8mm Socket Head Bolt	2
79	1904.00	4mm Spring Washer	2
80	4389.00	Bracket	1
81	4390.00	5-0.8 x 16mm Round Hd. Screw	1
82	6349.00	5-0.8mm Locknut	1
83	4391.00	Rivet	2
84	4392.00	Spacer	1
85	4393.00	Protecting Cover	1
Δ	4499.00	Operator's Manual	1

Rebuild Kits

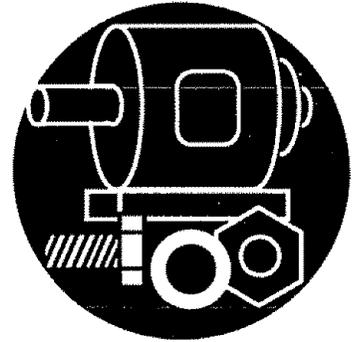
Δ	4402.00	Trigger Rebuild Kit Key Nos. 34, 36, two 37, 39, 40, two 42 and 44	1
Δ	4403.00	Head Valve Rebuild Kit Key Nos. 10, 15, 16, 19, 20 and 22	1
Δ	4404.00	Piston-Ram Assembly Rebuild Kit Key Nos. 24, 25, 29 and 32	1
Δ	4405.00	Cylinder Rebuild Kit Key Nos. two 26, 28 and 31	1

PARTS LIST

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
domicillo – 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
- Part Number
- Model Number
- Part Description

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