

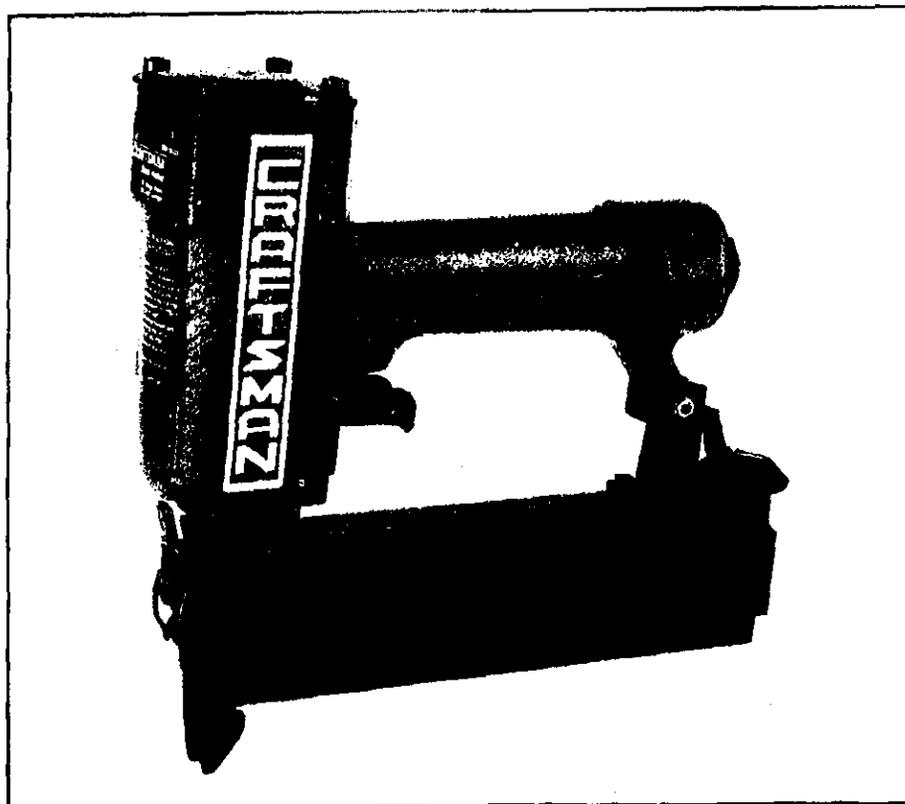
SEARS

OWNER'S MANUAL

Model No.
351.183230

Caution:

Read and follow
all safety rules and
operating instructions
before first use of this
product.



CRAFTSMAN

18 Gauge Brad Nailer

- Safety Instructions
- Operation
- Maintenance
- Troubleshooting
- Parts List

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

Part No. 9021.00

December 1995

DESCRIPTION

The Sears Craftsman 18 Gauge Brad Nailer drives brads from ¼" to 2" long. Die cast aluminum textured finish body reduces operator fatigue. Large capacity, side loading magazine with positive, quick action latch makes loading easy. Contact safety disables nailer unless nosepiece is in contact with workpiece. Tapered nosepiece provides operator with greater visibility for precise brad placement. Rigid nosepiece reduces jamming. The Sears 18 Gauge Brad Nailer is excellent for molding and decorative trim, furniture making and picture framing.

SAFETY INSTRUCTIONS

- Air tool operators and all others in work area should always wear safety goggles (must comply with 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 (7.1 kg/cm²).
- 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 tool when nose 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 tool with nose 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.

SPECIFICATIONS

Capacity	100 brad nails
Brad nail size	18 gauge (.049 x .040")
Brad nail lengths	¼" to 2"
Operating pressure	60-100 PSI
Air inlet	¼" F.N.P.T.
Length	9¾"
Height	9½"
Width	2¼"
Weight	3.5 lbs.

Brad Nails

218341	18 gauge brad nails, ¼" long
218342	18 gauge brad nails, 1" long
218343	18 gauge brad nails, 1¼" long
218360	18 gauge brad nails, 1¼" long
218361	18 gauge brad nails, 1¼" long
218362	18 gauge brad nails 2" long

OPERATING INSTRUCTIONS

Air Supply Line

Refer to Figure 1.

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

Minimum air requirements for nailer: 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.

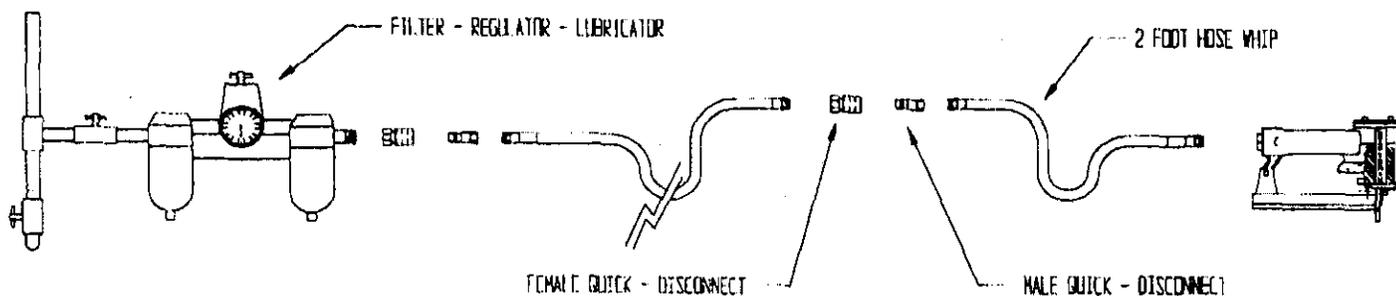


Figure 1-Air Supply Line

- Clean dry air is essential to the operation of the Sears nailer.
 - 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). A distance of less than 15 feet is recommended.
 - Keep air filter clean. A dirty filter will reduce the air pressure to the nailer 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 all 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.
- 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 nailer which could discharge if the tool trigger is actuated.
- The air pressure should be properly regulated.
 - Different workpiece materials and different nail lengths will require different operating pressure.

Loading

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

WARNING: DISCONNECT TOOL FROM AIR SUPPLY. ALWAYS LOAD WITH NOSE POINTING AWAY FROM YOU AND OTHERS. ALWAYS WEAR SAFETY GOGGLES THAT COMPLY WITH ANSI Z87.1.

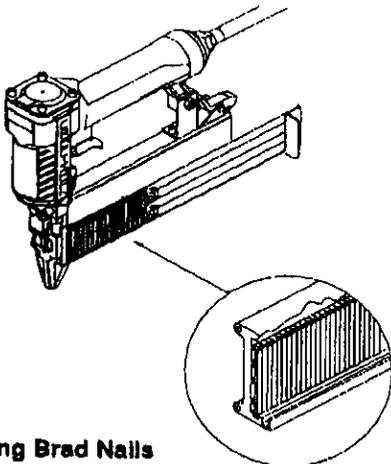


Figure 2-Loading Brad Nails

Note: For best results use Sears nails only.

- Depress latch (Key No. 59) and slide magazine cover (Key No. 52) backwards (see Figure 2). Insert brad nails into magazine. Position brads at bottom of magazine with brad head towards top of tool.
- Slide cover forward over magazine until latch snaps into place, locking magazine cover.

Note: It may be necessary to depress latch handle to close magazine cover.

Nailing Operation

WARNING: NEVER OPERATE TOOL UNLESS CONTACT TRIP IS IN CONTACT WITH WORKPIECE. DO NOT OPERATE TOOL WITHOUT NAILS OR DAMAGE TO TOOL MAY RESULT. NEVER FIRE NAILS INTO THE AIR BECAUSE NAILS MAY INJURE OPERATOR OR OTHERS AND DAMAGE TO TOOL MAY RESULT.

- The Sears 18 Gauge Brad Nailer is equipped with a contact trip safety mechanism (see Figure 3) that disables nailer unless contact trip is pushed against work. Hold tool handle firmly and press nose of tool on workpiece where nail is to be applied. Pull trigger to drive nail into workpiece.
- The nailer can also be operated by holding trigger depressed and pushing contact trip against workpiece. This operating procedure provides rapid-fire nail driving. Never operate tool unless contact trip is in contact with workpiece.

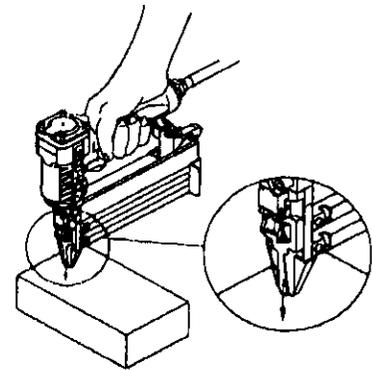


Figure 3-Contact Trip Operation

Operating Instructions (continued)

Quick Release Nose

Refer to Figure 5 (page 6).

The Sears 18 Gauge Brad Nailer is equipped with a quick release nose for clearing jammed nails.

- If a nail jams in the tool, disconnect the air supply from the tool. Open the magazine and remove any nails. Pull the nose cover latch (Key No. 37) down and release the nose cover. Remove the jammed nail and secure the latch. Reload the nails and connect the air supply.

Operating Pressure

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

Exhaust Deflector

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

- The position of the exhaust deflector can be changed to direct exhaust as desired. Exhaust deflector can be positioned at the left, front or right side of tool. Reposition deflector (Key No. 6) by carefully removing four bolts (Key No. 4) and rotating deflector to desired position.
- Be sure not to misplace valve spring (Key No. 7). Secure four bolts making sure that valve spring and exhaust plate are properly positioned.

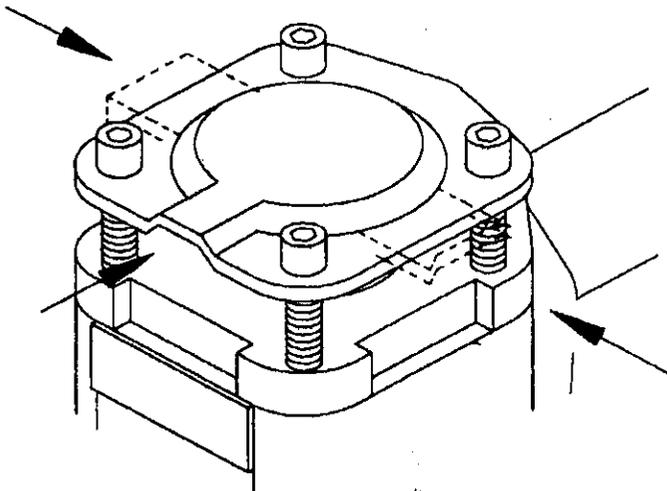


Figure 4-Exhaust Deflector Adjustment

MAINTENANCE

Lubrication

Refer to Figure 5 (page 6).

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

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

The tip of the ram (Key No. 17) 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 nailer. Nail 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 nailer if mechanism is not operating properly.

Perform the following procedures to test safety mechanism:

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

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

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

Piston/Ram Assembly

Refer to Figure 5 (page 6).

Tip of the ram (Key No. 17) can be dented or rounded over time. Square off tip of ram with a clean, fine hand file to extend the life of ram and nailer. Nail firing 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: Be sure tool is oiled properly. Clean and oil O-rings during reassembly.

TROUBLESHOOTING

Symptom	Possible Cause(s)	Corrective Action
Trigger cap leaks air	O-ring damaged	Check and replace damaged O-ring (Key No. 29)
Trigger leaks air	Damaged seal and O-rings	Check and replace damaged seal and O-rings (Key Nos. 24, 28, and 29)
Cap leaks air	<ol style="list-style-type: none"> 1. Cap bolts loose 2. Damaged O-ring and gasket 	<ol style="list-style-type: none"> 1. Tighten bolts (Key No. 4) 2. Check and replace damaged O-ring and gasket (Key Nos. 10 and 11)
Nose leaks air	<ol style="list-style-type: none"> 1. Nose bolts loose 2. Damaged cylinder O-ring 3. Damaged Bumper 	<ol style="list-style-type: none"> 1. Tighten nose bolts (Key No. 40) 2. Check and replace damaged O-ring (Key No. 19) 3. Check and replace damaged bumper (Key No. 22)
Tool will not operate	<ol style="list-style-type: none"> 1. Insufficient air supply 2. Insufficient lubrication 3. Damaged or worn head valve O-rings 4. Broken head valve spring 5. Head valve binding 	<ol style="list-style-type: none"> 1. Check air supply 2. Place five or six drops of air tool oil into inlet cap (Key No. 3) 3. Replace damaged or worn O-rings (Key Nos. 12 and 14) 4. Replace broken spring (Key No. 7) 5. Clean and lubricate valve and cap (Key Nos. 9 and 13)
Tool operates slowly or loses power	<ol style="list-style-type: none"> 1. Insufficient lubrication 2. Head valve spring doesn't work 3. Damaged or worn O-rings 4. Damaged trigger assembly 5. Build-up on ram 6. Cylinder not sealed on bumper 7. Head valve poorly lubricated 8. Insufficient air supply 	<ol style="list-style-type: none"> 1. Place five or six drops of air tool oil into inlet cap 2. Check and replace spring (Key No. 7) 3. Check and replace damaged or worn O-rings 4. Check and replace trigger assembly 5. Clean and lubricate piston/ram assembly (Key No. 17) 6. Disassemble cylinder and assemble properly 7. Disassemble head valve (Key No. 13), clean and lubricate. Assemble properly 8. Check air supply
Tool skips nails or inconsistent operation	<ol style="list-style-type: none"> 1. Worn or damaged bumper 2. Build-up on ram or nose 3. Insufficient air supply 4. Damaged or worn piston O-ring 5. Insufficient lubrication 6. Damaged magazine springs 7. Magazine-nose bolts loose 8. Nails too short 9. Damaged nails 10. Incorrect nail size 11. Head valve O-rings leak 12. Damaged seal and O-rings 13. Bent or damaged ram 14. Dirty magazine 15. Damaged or worn magazine 	<ol style="list-style-type: none"> 1. Check and replace bumper (Key No. 22) 2. Clean and lubricate piston/ram assembly (Key No. 17) and inside of nose cover (Key No. 38) 3. Check air supply 4. Check and replace O-ring (Key No. 16) 5. Place five or six drops of air tool oil into inlet cap (Key No. 3) 6. Check and replace springs (Key No. 48) 7. Tighten bolts (Key No. 40) 8. Use Sears recommended nails only 9. Discard damaged nails. Use Sears recommended nails only. 10. Use Sears recommended nails only 11. Check and replace damaged O-rings (Key Nos. 12 and 14) 12. Check and replace damaged seal and O-rings (Key Nos. 24, 28 and 29) 13. Check and replace damaged piston/ram assembly (Key No. 17) 14. Clean magazine and lubricate with air tool oil 15. Check and replace magazine (Key No. 49)

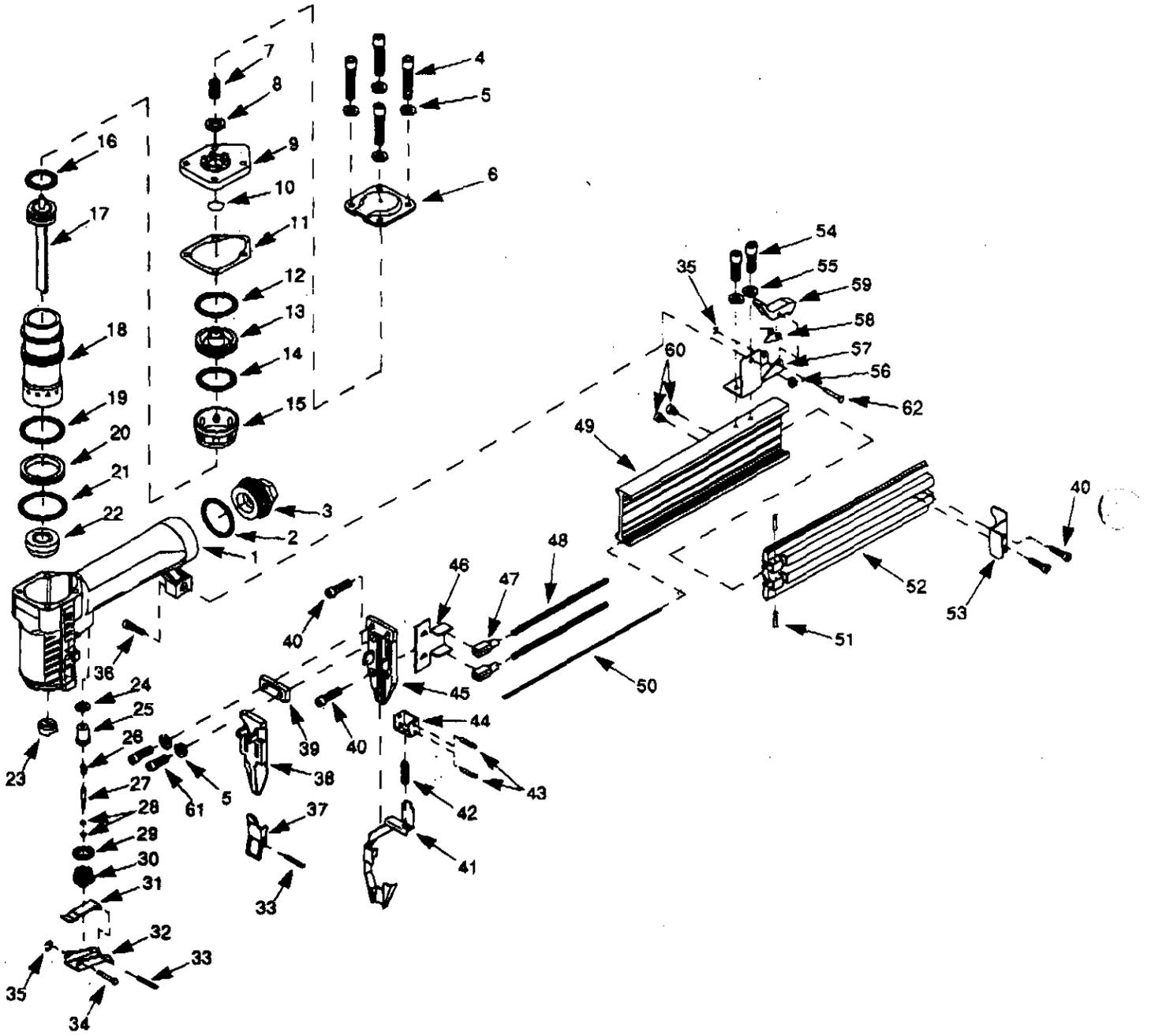


Figure 5- Replacement Parts For Brad Nailer

Replacement Parts List

KEY PART		DESCRIPTION	QTY.
NO.	NO.		
1	9006.00	Body	1
2	9007.00	Inlet cap O-ring	1
3	9008.00	Inlet cap	1
4	5284.00	5-0.8 x 25mm Socket head bolt	4
5	STD852005	5mm Lock washer	6
6	9009.00	Deflector	1
7	6047.00	Spring	1
8	6048.00	Seal	1
9	9010.00	Cap	1
10	6050.00	13.8 x 2.4mm O-ring	1
11	9011.00	Gasket	1
12	6052.00	31.8 x 2.4mm O-ring	1
13	6053.00	Head valve	1
14	6054.00	23 x 3.5mm O-ring	1
15	6055.00	Deflector cylinder	1
16	6056.00	21.7 x 2.9mm O-ring	1
17	9012.00	Piston-ram assembly	1
18	9013.00	Cylinder	1
19	9014.00	29.2 x 3.5mm O-ring	1
20	9015.00	Spacer	1
21	9016.00	43 x 2.4mm O-ring	1
22	9017.00	Bumper	1
23	6061.00	Ram guide	1
24	6065.00	Plastic seal	1
25	9018.00	Trigger valve head	1
26	9019.00	Spring	1
27	9020.00	Plunger	1
28	6157.00	2.5 x 1.5mm O-ring	2
29	6069.00	13 x 2mm O-ring	1
30	9022.00	Trigger cap	1
31	6074.00	Trigger lever	1

KEY PART		DESCRIPTION	QTY.
NO.	NO.		
32	6072.00	Trigger	1
33	6075.00	2.5 x 16mm Spring pin	2
34	6073.00	Clevis pin	1
35	46-221434-9	3CMI-3 E-ring	2
36	6079.00	4-7.0 x 16mm Socket head bolt	1
37	9023.00	Nose cover latch	1
38	9024.00	Nose cover	1
39	9025.00	Nose plate	1
40	6097.00	4-.70 x 14mm Socket head bolt	4
41	9026.00	Contact trip	1
42	9027.00	Spring	1
43	6164.00	3 x 25mm Spring pin	2
44	9028.00	Bracket	1
45	9029.00	Nose	1
46	9030.00	Pusher bracket	1
47	9031.00	Pusher	2
48	6092.00	Pusher spring	2
49	9032.00	Magazine	1
50	6093.00	Wear plate	1
51	9033.00	2.5 x 12mm Spring pin	2
52	9034.00	Magazine cover	1
53	9035.00	Latch plate	1
54	6078.00	4-0.7 x 12mm Socket head bolt	2
55	STD852004	4mm Lock washer	2
56	6080.00	4mm-.70mm Fiber hex nut	1
57	9036.00	Latch Bracket	1
58	6084.00	Latch spring	1
59	6083.00	Latch	1
60	5809.00	4-.70 x 6mm Socket head bolt	2
61	6045.00	5-0.8 x 20mm Socket head bolt	2
62	8987.00	Clevis pin	1
•	9021.00	Owner's Manual	1

- Standard hardware item available locally
- Not Shown

RECOMMENDED ACCESSORIES		
•	18 Gauge Brad Nails, 5/8" Long	918341
•	18 Gauge Brad Nails, 1" Long	918342
•	18 Gauge Brad Nails, 1 1/4" Long	918343
•	18 Gauge Brad Nails, 1 1/2" Long	918360
•	18 Gauge Brad Nails, 1 3/4" Long	918361
•	18 Gauge Brad Nails, 2" Long	918362

REBUILD KITS			
•	9037.00	Trigger Rebuild Kit Key Nos. 24, 25, 27, 29, and 2 ea. 28	1
•	9038.00	Head Valve Rebuild Kit Key Nos. 8, 10, 11, 12, and 14	1
•	9039.00	Piston Ram Assembly Rebuild Kit Key No. 16, 17, 22, and 23	1
•	9040.00	Cylinder Rebuild Kit Key Nos. 19 and 21	1

SEARS

OWNER'S MANUAL

Model No.
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When requesting service or ordering parts, always provide the following information:

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

CRAFTSMAN

18 Gauge Brad Nailer

For the repair or replacement parts you need
Call 7 am - 7 pm, 7 days a week
1-800-366-PART
(1-800-366-7278)



For the location of a
Sears Repair Service Center in your area
Call 24 hours a day, 7 days a week
1-800-488-1222



SEARS
REPAIR SERVICES
America's Repair Specialists

Full One Year Warranty On Craftsman Air-Drive Tools

If this Craftsman air-drive tool fails to give complete satisfaction within one full year from the date of purchase, RETURN IT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT 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. D/817 WA, Hoffman Estates, IL 60179

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