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FOR
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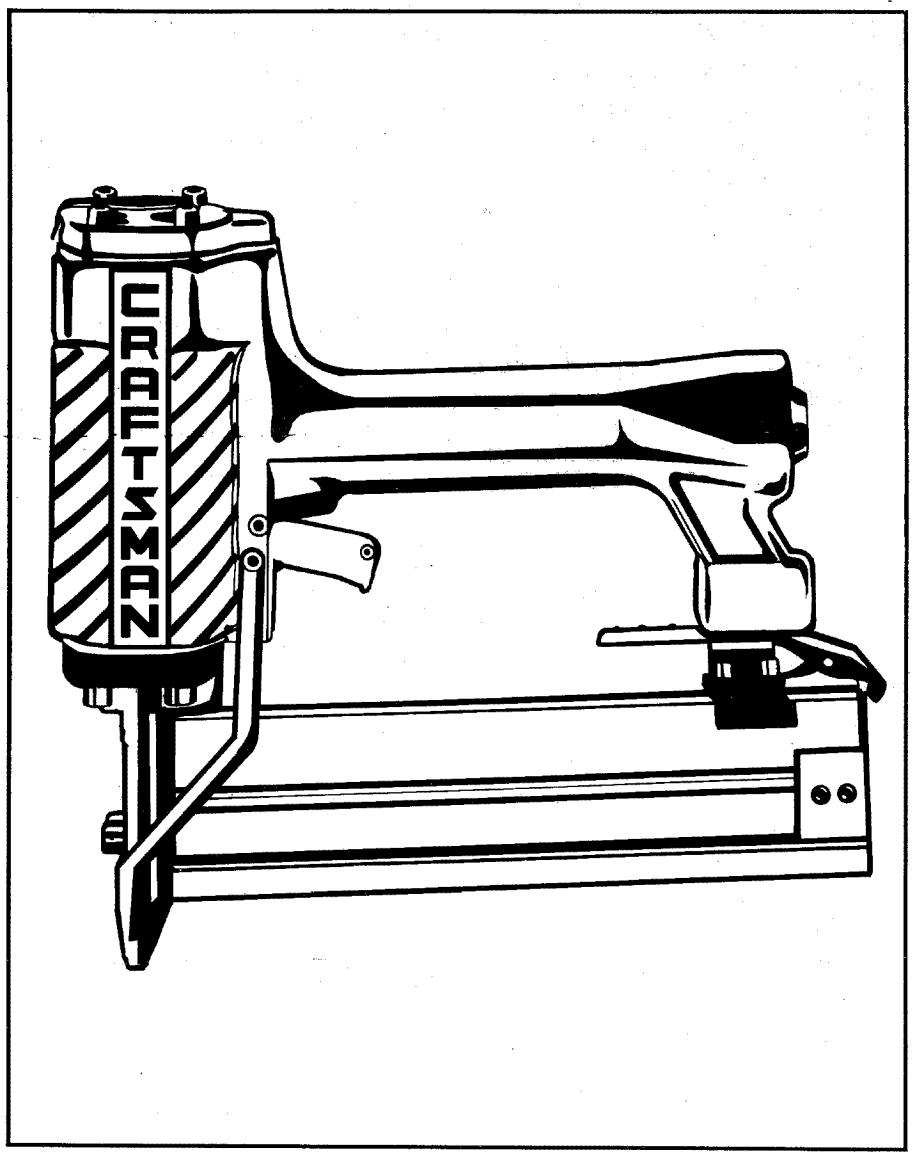
SEARS
OWNER'S MANUAL

MODEL NO.
351.183150



SEARS/CRAFTSMAN

16 Gauge Finishing Nailer

- safety instructions
- operating instructions
- replacement parts

CAUTION:
READ ALL
INSTRUCTIONS
CAREFULLY!

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art No. 6185.00
June 1991

DESCRIPTION

The Sears 16 Gauge Finishing Nailer drives nails from 3/4 to 2" long. Die cast aluminum, textured finish body reduces operator fatigue. Large capacity, side loading magazine with positive, quick action latch makes loading nails easy. Contact safety disables nailer until nosepiece is in contact with workpiece. Tapered nosepiece provides operator with greater visibility for precise nail placement. Rigid nosepiece reduces jamming. The Sears 16 Gauge Finishing Nailer is excellent for interior and exterior trim work, door and window manufacturing, furniture making and cabinetry.

SPECIFICATIONS

Capacity	100 finish nails
Finish nail size	16 gauge (.062 x .055")
Finish nail lengths	3/4 to 2"
Operating pressure	60-100 PSIG
Air inlet	1/4" F.N.P.T.
Length	11 7/8"
Height	11"
Width	2 3/4"
Weight	5.1 lbs.

FINISH NAILS

918344	16 gauge finish nails, 1 1/4" long
918346	16 gauge finish nails, 1 1/2" long
918347	16 gauge finish nails, 2" long

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 PSIG (7.1 kg/cm^3).

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 gases 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.

Use Sears recommended fasteners only.

OPERATING INSTRUCTIONS

AIR SUPPLY LINE

Refer to Figure 1.

The Sears air nailer operates on compressed air at pressures from 60 to 100 PSIG.

Never exceed maximum pressure.

Minimum air requirements for nailer: Average working SCFM 4.0 at 90 PSI with a 3/8" air hose and 15 gallon tank.

WARNING: KEEP HANDS AND BODY AWAY FROM DISCHARGE AREA OF NAILER WHEN CONNECTING AIR SUPPLY.
ALWAYS DISCONNECT TOOL FROM AIR SUPPLY WHEN SERVICING OR ADJUSTING TOOL AND WHEN TOOL IS NOT IN USE.

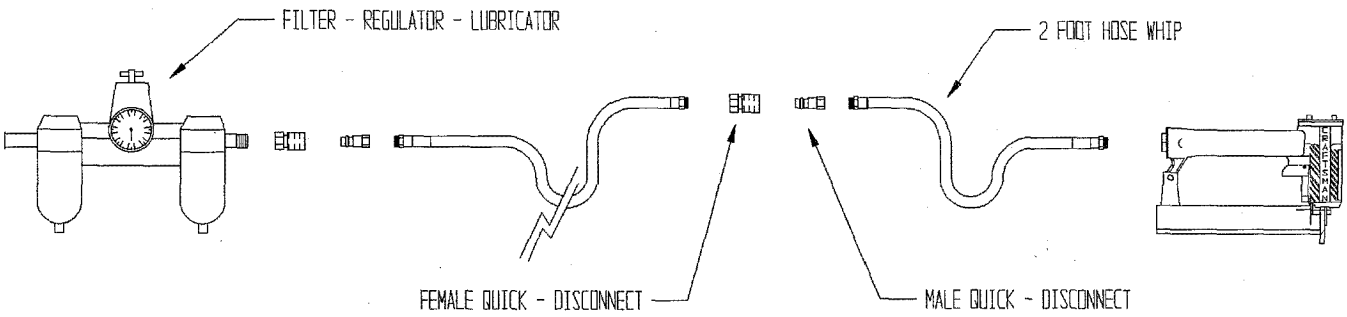

Figure 1- Air Supply Line

AIR SUPPLY LINE (Continued)

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 the 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 stapler which could discharge if the tool trigger is actuated.

The air pressure should be properly regulated.

Do not mount swivel connector in air supply line.

Different workpiece materials and different nail lengths will require different operating pressure.

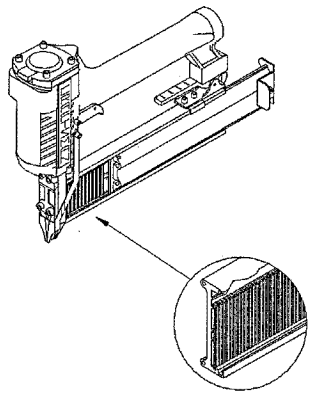

Figure 2 - Loading Finish Nails

Be sure all connections in air supply system are sealed to prevent air loss.

LOADING

Refer to Figures 2 & 5.

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

NOTE: For best results use Sears nails only.

Depress latch handle (Key No. 41) and slide magazine cover (Key No. 39) backwards (see Figure 2). Insert finish nails into magazine. Position nails at bottom of magazine with nail 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

Refer to Figure 3.

OPERATING INSTRUCTIONS (Continued)

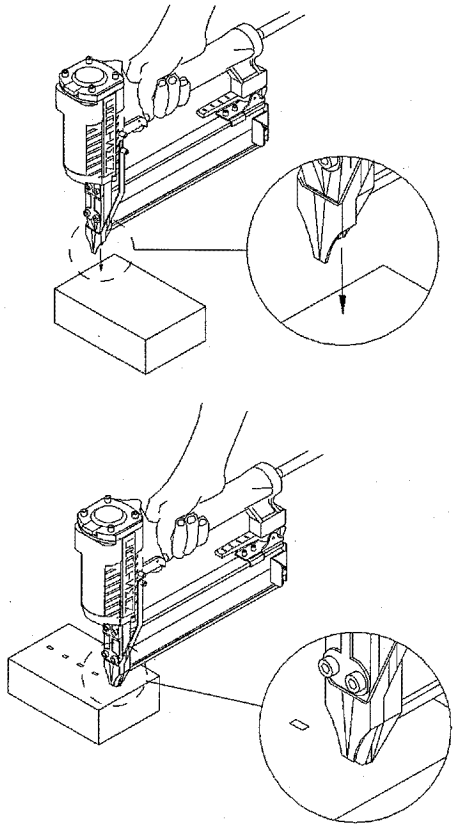

Figure 3 - Contact Trip Operation

NAILING OPERATION (Continued)

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 16 Gauge Finishing Nailer is equipped with a contact trip safety mechanism 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 is preferred for rapid-fire nail driving. Never operate tool unless contact trip is in contact with workpiece.

MAINTENANCE

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

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

The tip of the ram (Key No. 14) can become dented or rounded over time. Square off 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.

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:

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

Repair nailer immediately if contact trip mechanism does not operate properly.

OPERATING PRESSURE

Use only enough air pressure to perform the 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 nail heads are driven down flush with the work surface. Nails driven too deep may damage workpiece.

Repair or replace any missing or damaged parts. Use the parts list to order parts.

TROUBLESHOOTING

WARNING: DISCONNECT TOOL FROM AIR SUPPLY BEFORE ATTEMPTING REPAIR OR ADJUSTMENT.

Refer to Figure 5.

Note: Be sure tool is oiled properly. Clean and oil all O-rings during reassembly.

If nail jams in nose of tool, open magazine and remove nails. Loosen two socket head bolts (Key No. 50) and remove nose cover (Key No. 56). Remove jammed nail, replace nose cover and secure socket head bolts.

If tool will not fire or loses power, the O-rings may need cleaning and lubrication. Remove deflector (Key No. 3) and carefully remove cap, cylinder valves, piston and cylinder (Key Nos. 4, 7, 11, 14 & 17). Clean all O-rings and O-ring grooves with clean, dry cloth. Be careful not to damage O-rings.

Replace O-rings if worn, stretched or damaged. Coat O-rings and grooves with air tool oil. Assemble in reverse order of disassembly.

If tool leaks air out of exhaust port, check O-ring (Key No. 6).

If tool leaks air out of hole on side of cylinder housing and nailer fires just one time when connected to air supply, check O-rings (Key Nos. 9 & 12).

If tool leaks air out of back of cap (Key No. 4), check trigger valve O-rings (Key Nos. 20, 22 & 24).

If tool misfires, check O-ring (Key No. 25).

If tool leaks air at trigger, check trigger O-ring (Key No. 27).

NOTES

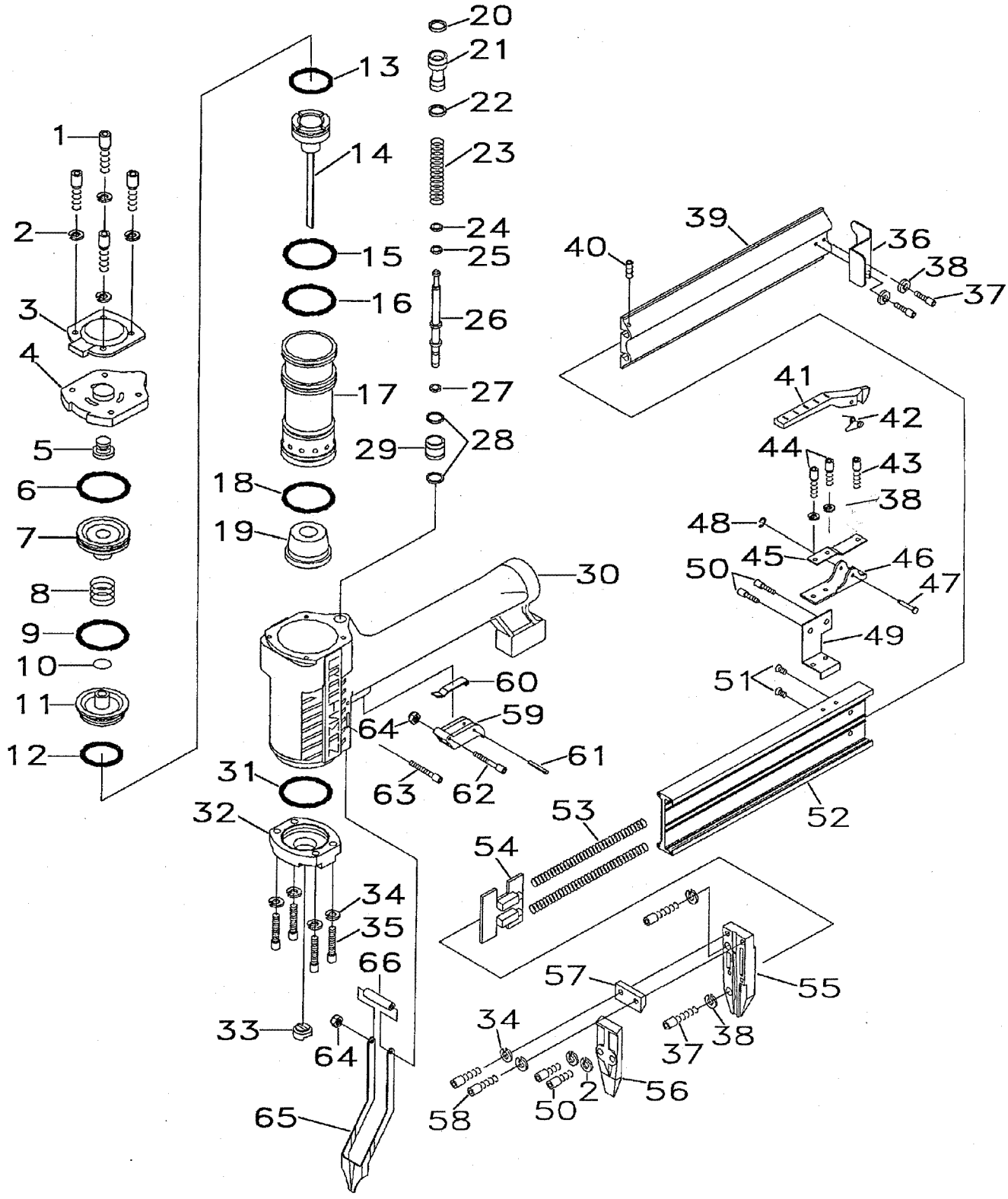

Figure 5 - Replacement Parts Illustration

REPLACEMENT PARTS LIST FOR NAILER

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	6045.00	5-0.8 x 20mm Bolt, socket head*	4
2	46-58494-3	5mm Washer, split*	6
3	6211.00	Deflector	1
4	6212.00	Cap	1
5	6213.00	Cap Seal	1
6	6214.00	Seal O-ring	1
7	6215.00	Cylinder seal	1
8	6216.00	Cylinder valve spring	1
9	6217.00	Lower valve O-ring	1
10	6218.00	Lower valve O-ring	1
11	6219.00	Lower valve	1
12	6220.00	Lower valve O-ring	1
13	6221.00	Piston O-ring	1
14	6222.00	Piston-ram assembly	1
15	6223.00	Cylinder top O-ring	1
16	6224.00	Cylinder middle O-ring	1
17	6225.00	Cylinder	1
18	6226.00	Cylinder bottom O-ring	1
19	6227.00	Bumper	1
20	6228.00	Breather valve top O-ring	1
21	6229.00	Breather valve	1
22	6230.00	Breather valve bottom O-ring	1
23	6231.00	Plunger spring	1
24	6232.00	Plunger top O-ring	1
25	6233.00	Plunger middle O-ring	1
26	6234.00	Plunger	1
27	6235.00	Plunger bottom O-ring	1
28	6236.00	Bushing O-ring	2
29	6237.00	Plunger bushing	1
30	6238.00	Gun body	1
31	6239.00	Bottom cap O-ring	1
32	6240.00	Bottom cap	1
33	6241.00	Ram guide	1
34	1514.00	6mm Washer, split	6
35	0179.00	6-1.0 x 20mm Bolt, socket head*	4
36	6242.00	Latch plate	1
37	6079.00	4-0.7 x 16mm Bolt, socket head*	4
38	6196.00	4mm Washer, split*	6
39	6243.00	Magazine cover	1
40	6244.00	4-0.7 x 12mm Screw, set*	1
41	6245.00	Latch	1
42	6246.00	Latch spring	1
43	6086.00	4-0.7 x 8mm Bolt, socket head*	1
44	6088.00	4-0.7 x 10mm Bolt, socket head*	2
45	6247.00	Latch spacer plate	1
46	6248.00	Latch bracket	1
47	6249.00	Pin	1
48	6250.00	E-ring	1
49	6251.00	Magazine bracket	1
50	6252.00	5-0.8 x 14mm Bolt, socket head*	4
51	6088.00	4-0.7 x 10mm Bolt, flat head socket*	2
52	6253.00	Magazine	1
53	6254.00	Pusher spring	2
54	6255.00	Pusher	1
55	6256.00	Nose	1
56	6257.00	Nose cover	1
57	6258.00	Nose plate	1
58	6182.00	6-1.0 x 30mm Bolt, socket head*	2
59	6259.00	Trigger	1
60	6260.00	Trigger lever	1
61	6261.00	Spring pin	1
62	6262.00	4-0.7 x 35mm Bolt, socket head*	1
63	6263.00	4-0.7 x 40mm Bolt, socket head*	1
64	6198.00	4mm x 0.7 Nut, hex*	2
65	6264.00	Contact trip	1
66	6265.00	Trip Bushing	1
•	6185.00	Owner's Manual	1

* Standard hardware item available locally.
• Not shown.

RECOMMENDED ACCESSORIES

Finish nails, 16 gauge, 1 1/4" long	918344
Finish nails, 16 gauge, 1 1/2" long	918346
Finish nails, 16 gauge, 2" long	918347

OWNER'S MANUAL

SERVICE

MODEL NO. 351.183150

HOW TO ORDER REPLACEMENT PARTS

16 Gauge Finishing Nailer

Thank you for purchasing your 16 Gauge Finishing Nailer from Sears. This unit will provide you with many years of reliable service. Should the need exist for repair parts or service, simply contact any Sears Service Center and most Sears, Roebuck and Co. stores. Be sure to provide all pertinent facts when you call or visit. The model number of your 16 Gauge Finishing Nailer is on the front of the nailer.

All parts listed may be ordered from any Sears Service Center and most Sears stores. If the parts you need are not stocked locally, your order will be electronically transmitted to the Sears Repair Parts Distribution Center for handling.

When ordering replacement parts, always give the following information:

NAME OF ITEM: 16 Gauge Finishing Nailer

MODEL NUMBER: 351.183150

PART NUMBER:

PART DESCRIPTION:

Sold by SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A. ©

Part No. 6185.00 **June 1991**