

Sears

owners manual

SAND BLAST EQUIPMENT

MODELS

106.168010

106.168120

106.168130

CAUTION:

Read Rules for
Safe Operation
and Instructions
Carefully

- Operation
- Repair Parts



SEARS, ROEBUCK AND CO.
CHICAGO, ILL. 60684 U.S.A.

SIMPSONS-SEARS LIMITED, TORONTO, CANADA

WARRANTY

SAND BLASTING EQUIPMENT – FULL ONE YEAR WARRANTY

Normal nozzle wear is not covered by this warranty. If this sand blasting equipment fails due to a defect in material or workmanship within one year from the date of purchase, return it to any Sears Store throughout the United States and we will repair it free of charge.

SEARS ROEBUCK AND CO.

OPERATING INSTRUCTIONS

RULES FOR SAFE OPERATION

Read the Owner's Manual and the Rules for Safe Operation carefully to insure product satisfaction and to prevent injury.

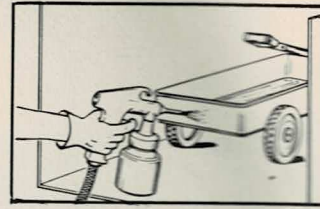
1. Eye protection and respirator safety equipment should be worn if the eyes and face are exposed to flying particles during operation.
2. During operation, do not expose hands or skin directly in the line of the blast nozzle.
3. Do not subject the canister to a pressure in excess of 50 psig when using the pressure feed method.

UNPACKING INSTRUCTIONS

Sears sand blast equipment is carefully inspected and cartoned to protect against shipping damage. If there is any damage or missing parts the transportation company agent should make a notation to that effect on the bill. Send the bill to the Sears, Roebuck and Co. location from which the sand blast equipment was purchased. If available, give the invoice number on all order bills. Following this procedure will enable Sears to quickly handle transportation damages.

WHERE TO USE YOUR SAND BLAST EQUIPMENT

It is preferred that your sand blast equipment be used in conjunction with commonly available sand blast cabinets. However, if such cabinets are not available to you, then the following tips may be of help. Your sand blast equipment should be used in a well-lighted and well-ventilated area such as your garage or outdoor patio. The chosen area should be sufficiently clear of any objects which could be damaged by flying abrasives. To localize abrasive scattering and if reclamation of the abrasives is desired, then some sort of common wood or cardboard enclosure, such as illustrated, may be helpful.



OTHER APPLICATIONS

Your sand blast equipment performs equally well when using soap and water for cleaning purposes such as auto washing, lawn chair cleaning, screen cleaning and any number of other cleaning applications. Liquid and powder insecticides, kerosene and other solvents may also be dispensed with your sand blast equipment. When large amounts of liquid are to be dispensed by your sandblast gun in a short period of time, it is recommended that your gun be operated in the pressure feed mode. Otherwise it is recommended that you use your sandblast gun in the siphon feed mode. In order to obtain a high pressure liquid stream it is recommended that you operate your sandblast gun in the pressure feed mode.

FACTS ABOUT ABRASIVE BLASTING

Abrasive blasting combines both cleaning and finishing actions and may be used to replace time-consuming hand sanding operations, paint and rust removal operations. Once surfaces have been cleaned by abrasive blasting, further cleaning may be unnecessary. Abrasive cleaning can save time normally required by other hand cleaning methods. Often metal surfaces cleaned by abrasive action need no other primer finish prior to painting. Almost any type of finish may be obtained by the proper selection of abrasive materials.

Normal usage of a sandblaster will cause nozzle wear. A noticeable decrease in the blasting ability of your sandblaster is usually a symptom of excessive nozzle wear. Replacement nozzles are available from your nearest Sears store. Long life ceramic nozzles which are recommended for extreme usage are also available.

SUGGESTED USES

The following table may be helpful in selecting the type of abrasive for various sand blast applications. Use only clean, dry abrasive materials for best results.

TYPES OF ABRASIVE	APPLICATION	WHERE AVAILABLE
Sand Grit Size 30 (16-45 Mesh)	General purpose use. Light rust and paint removal from metals, woods, other surfaces, wood finishing, metal cleaning, glass and stone etching, drilling of holes in glass, brick or cement block, brass and silver cleaning, light brick cleaning, exterior automotive parts cleaning, light stone and cement removal, and water deposits removal.	Hardware and Builder's Supply
Sand Grit Size 70 to 90 (40-140 Mesh)	Desirable for fine polish finishes, antique wood finish, brass and silver polishing, automotive parts cleaning and polishing, sheet metal surface polishing, and fine glass etching.	Foundry and Builder's Supply
Aluminum Oxide Grit Size 50-80	Heavy rust removal, rough surface paint removal.	Builder's Supply
Glass Beads	Fine polish finishes of all wood grains, silver and brass objects, automotive parts, fine etching of glass, etc.	Foundry and Builder's Supply

OPERATING INSTRUCTIONS

GENERAL DESCRIPTION

SIPHON FEED — The canister is open to atmospheric pressure and the material is siphoned out through the spray nozzle. Models 106.168120 and 106.168130 are factory-packed as siphon feed guns.

PRESSURE FEED — Air pressure is directed into the canister, thus forcing the material up through the material tube and eventually through the spray nozzle. Model 106.168010 is factory-packed as a pressure feed gun.

CAUTION: When using the sand blast gun on pressure feed, do not use over 50 lbs. of air pressure.

BLEEDER — The air passes continuously through the trigger and cannot be controlled by the trigger. This mode of operation permits the gun to be used with non-tank-type continuous-running compressors. Model 106.168010 is factory-packed for bleeder operation.

NONBLEEDER — The air flow through the trigger is shut off each time the trigger is released. Bleeder as well as nonbleeder guns may be used unmodified with tank-type compressors or air line installations. However, for conserving air, it is recommended that nonbleeder guns be used with tank type compressors. Models 106.168120 and 106.168130 are factory-packed for nonbleeder operation.

TO CHANGE MODEL NO. 106.168010 FROM PRESSURE FEED TO SIPHON FEED OPERATION — Refer to Figures 1 and 5 — Remove the gun canister (15), material tube (11) and the retainer nut (9). Use the Allen wrench provided to remove the set screw (16-A) and relocate in the hole provided near the center of the canister top, as shown in Figure 1. Replace the retainer nut, material tube and canister top. Your sand blast gun is now ready for siphon feed operation.

TO CHANGE MODEL NO. 106.168120 FROM SIPHON FEED TO PRESSURE FEED — Follow the procedure stated in the previous paragraph in reverse.

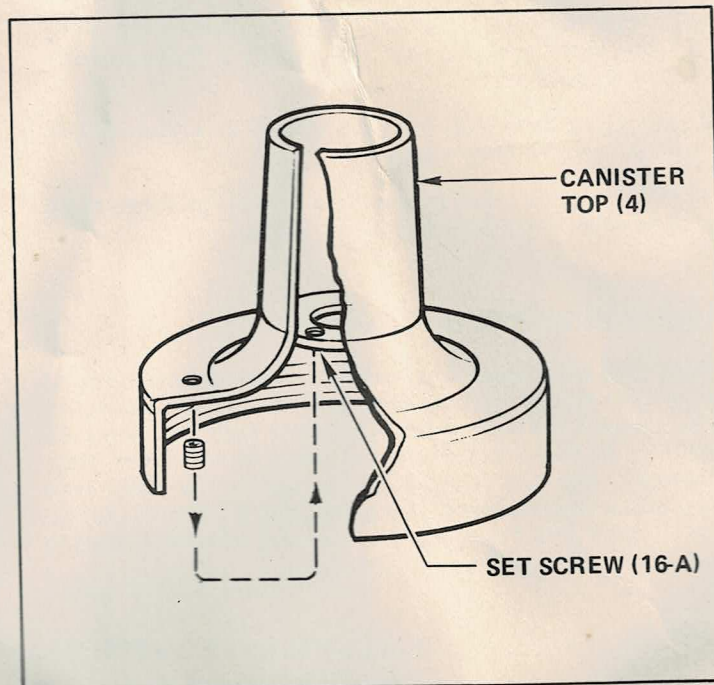


FIGURE 1: Converting sand blast gun from pressure feed to siphon feed operation.

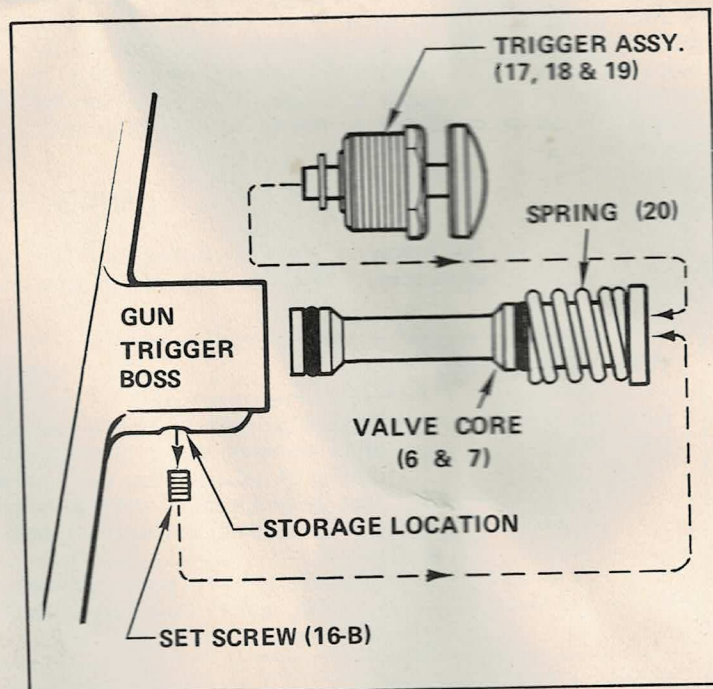


FIGURE 2: Converting sand blaster from bleeder to nonbleeder operation.

OPERATING INSTRUCTIONS

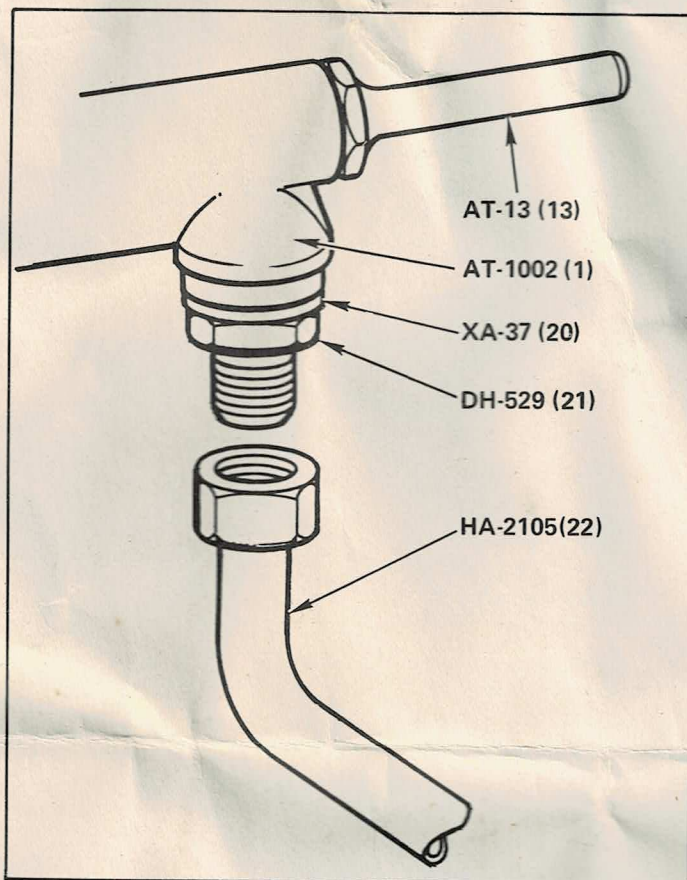


FIGURE 3: Converting Model No. 106.168120 to sand hopper operation.

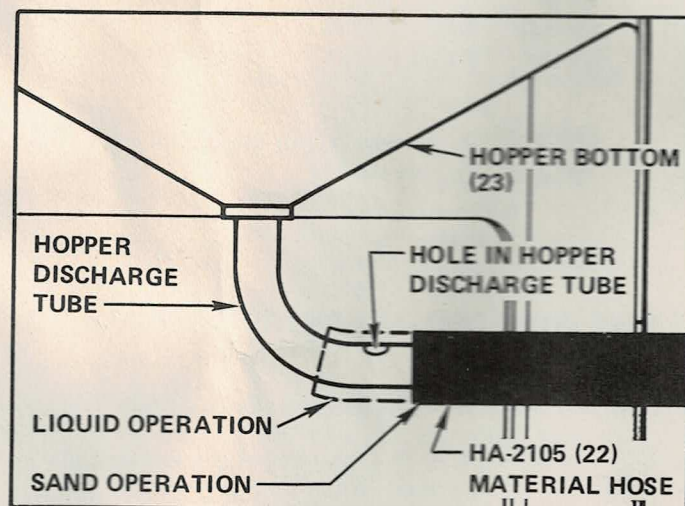


FIGURE 4: Material Hose Connection for sand hopper Model No. 106.168120.

TO CHANGE MODEL NO. 106.168010 FROM BLEEDER TO NONBLEEDER — Refer to Figures 2 and 5 — Remove the set screw (16-B) from its present location underneath the gun trigger boss. Remove the trigger assembly (17, 18 and 19). Remove the valve core assembly. Screw the set screw (16-B) into the valve core assembly as shown in Figure 2. Replace the valve core assembly and the trigger assembly into the sand blast gun. Your sand blast gun is now ready for nonbleeder operation.

TO CHANGE MODEL NO. 106.168120 FROM NON-BLEEDER TO BLEEDER OPERATION — Follow the procedure stated in the previous paragraph in reverse.

TO CONVERT MODEL NO. 106.168120 FROM CANISTER TO SAND HOPPER OPERATION — Refer to Figures 3, 6, 7 — Make sure that the material hose (22) is connected to the sand hopper. This is done by slipping the end of the hose without the fitting onto the end of the discharge tube at the bottom of the sand hopper. When the hose connection has been checked, then remove the canister (15), the material tube (11), and canister top adapter (2). Slip the jam nut gasket and jam nut (found in small parts pack) onto gun body assembly (1), as shown in Figure 3. Screw the jam nut tightly against the jam nut gasket. Attach the hose (22) to the gun. Your gun is now ready for sand hopper operation. To convert the gun back to canister operation, just reverse the procedure stated above.

MATERIAL HOSE CONNECTION FOR HOPPER MODELS 106.168120 and 106.168130 — Refer to Figures 4 and 7. To use the hopper model for sandblasting or powdered insecticide operation the material hose (22) should be slipped onto the hopper discharge tube about 5/8 of an inch. The material hose (22) should not cover the 1/4 inch diameter hole located in the hopper discharge tube.

To use the hopper model for liquid material operation, the material hose (22) should be slipped onto the Hopper discharge tube so that the 1/4 inch diameter hole located in the hopper discharge tube is covered up. This prevents the liquid from flowing out of the hopper.

SAND BLAST GUN—MODEL NO. 106.168010

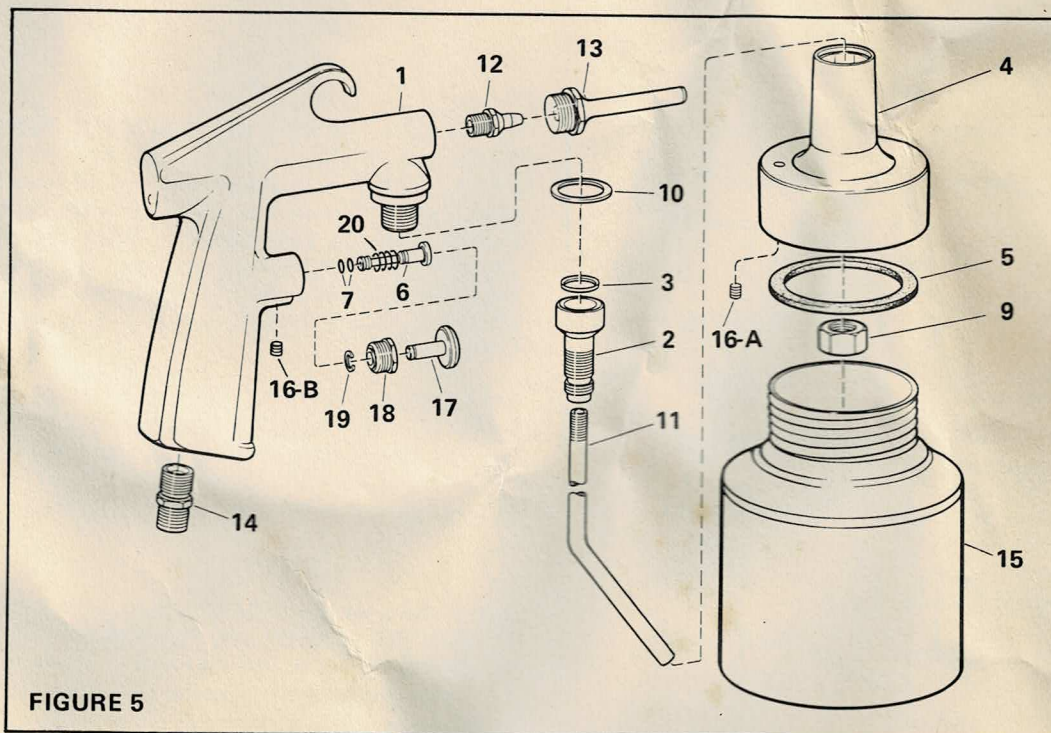


FIGURE 5

PARTS LIST

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	AT-1022	Gun Body Assembly	13	AT-10	Nozzle
2	AT-7	Canister Top Adapter	14	HF-18	Hose Connector
3	DH-563	Canister Top Adapter Gasket	15	DH-540	Canister
4	AT-1005	Canister Top Assembly	16 A&B	STD-37	Set Screws (2 Used)
5	XA-53	Canister Gasket	17	AT-4	Trigger
6	AT-12	Valve Core	18	AT-5	Trigger Housing
7	STD-567	O-Ring (2 Used)	19	STD-25	Crescent Ring
9	DH-533	Retainer Nut	20	AT-18	Spring
10	XA-38	Canister Top Gasket			
11	DH-19	Material Tube			
12	AT-9	Air Jet			
			STD-109		Allen Wrench (Not Illustrated)
			INS-452		Owners Manual

PRESSURE FEED—BLEEDER SAND BLAST GUN MODEL NO.106.168010

The Model No. 106.168010 sand blast gun can be converted to siphon feed and/or nonbleeder operation. Please consult the instructions located on the preceding pages for proper conversion techniques.

The Model No. 106.168010 sand blast gun should be operated with non-tank-type portable air compressors rated at least 1/3

hp, and delivering a minimum of 2.2 cfm at 40 psig. This gun may be used with high pressure-tank-type air compressors provided the air supplied to the sand blast gun is maintained at a maximum of 50 psig. When the gun is operated in conjunction with high pressure compressors it is recommended that this gun be converted to nonbleeder, siphon feed operation.

SAND BLAST EQUIPMENT—MODEL NO.106.168120 & 106.168130

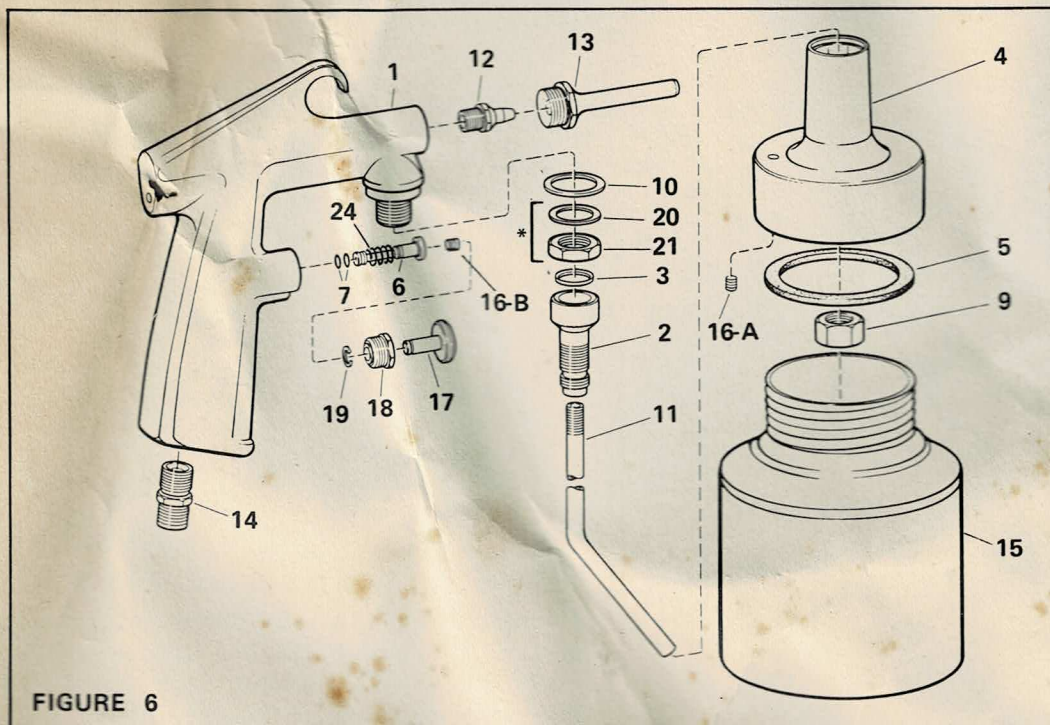


FIGURE 6

PARTS LIST

KEY NO.	PART NO.	DESCRIPTION
1	AT-1022	Gun Body Assembly
2	AT-7	Canister Top Adapter (106.168120)
3	DH-563	Canister Top Adapter Gasket (106.168120)
4	AT-1005	Canister Top Assembly (106.168120)
5	XA-53	Canister Gasket (106.168120)
6	AT-12	Valve Core
7	STD-567	O-Ring (2 Used)
9	DH-533	Retainer Nut (106.168120)
10	XA-38	Canister Top Gasket (106.168120)
11	DH-19	Material Tube (106.168120)
12	AT-11	Air Jet
13	AT-13	Nozzle (106.168120)
	AT-1095	Nozzle (106.168130)
14	HF-18	Hose Connector
15	DH-540	Canister (106.168120)
16 A&B	STD-37	Set Screws (2 Used on 106.168120)
17	AT-4	Trigger
18	AT-5	Trigger Housing
19	STD-25	Crescent Ring
*20	XA-37	Jam Nut Gasket
*21	DH-529	Jam Nut
22	HA-2105	Material Hose
23	AT-41	Hopper Assembly
24	AT-18	Spring
25	AT-40	Filter
26	AT-42	Handle

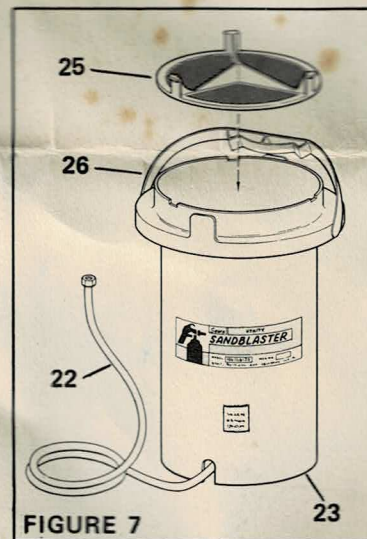


FIGURE 7

STD-109 Allen Wrench (Not Illustrated)
INS-452 Owners Manual

* Found in small parts pack.

SIPHON FEED—NONBLEEDER SAND BLAST GUN MODEL NO.106.168120 & 106.168130

The Model No. 106.168120 sand blast gun can be converted to pressure feed and/or bleeder type operation. This gun may be used with a sand hopper or with a gun canister. When this sand blast gun is used in the siphon feed mode, either with a canister or the sand hopper, it may be used with any air compressor delivering a minimum of 3.5 cfm at 50 psig or more.

CAUTION: When this sand blast gun is used under pressure feed operation with a canister, the air pressure supplied to the sand blast gun should be maintained at a maximum of 50 psig.

The Model No. 106.168130 sand blast gun should be used only for siphon feed and nonbleeder operation. This model is supplied with a sand hopper but no canister.

Sears

owners manual

SAND BLAST EQUIPMENT

MODELS

106.168010

106.168120

106.168130

HOW TO ORDER REPAIR PARTS

SEARS SERVICE
IS AT YOUR SERVICE
WHEREVER YOU LIVE
OR MOVE
IN THE U.S.A.

The model number will be found on the decal attached to the tank of the unit or on the Sand Blast Gun Body. Always mention the model number in all correspondence regarding the Sears Sand Blast Equipment, or when ordering gun repair parts.

HOW TO ORDER REPAIR PARTS

All parts listed herein may be ordered through SEARS, ROEBUCK AND CO. or SIMPSONS-SEARS LIMITED. When ordering parts by mail from the catalog merchandise distribution center which serves the territory in which you live, selling prices will be furnished on request or parts will be shipped at prevailing prices and you will be billed accordingly.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

1. THE PART NUMBER
2. THE PART NAME
3. THE MODEL NUMBER
4. THE NAME OF ITEM

COAST TO COAST NATION-WIDE
SERVICE FROM SEARS
FOR YOUR SEARS
SAND BLAST EQUIPMENT

SEARS, ROEBUCK AND CO. and SIMPSONS-SEARS LIMITED in Canada back up your investment with quick, expert mechanical service and genuine SEARS replacement parts. If and when you need repairs or service, call on us to protect your investment in this fine piece of equipment.

SEARS, ROEBUCK AND CO.
CHICAGO, ILL. 60684 U.S.A.

SIMPSONS-SEARS LIMITED, TORONTO, CANADA