



THE NATIONAL SUPER SERVICE COMPANY

3115 FRENCHMENS ROAD, TOLEDO, OHIO 43607-2958

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IMPORTANT SAVE THESE INSTRUCTIONS

**READ AND UNDERSTAND ALL INSTRUCTIONS
BEFORE OPERATING OR SERVICING MACHINE**

THIS MACHINE IS INTENDED FOR COMMERCIAL USE ONLY



DESIGNER 16 - 20 WET/DRY VACUUM



DANGER!

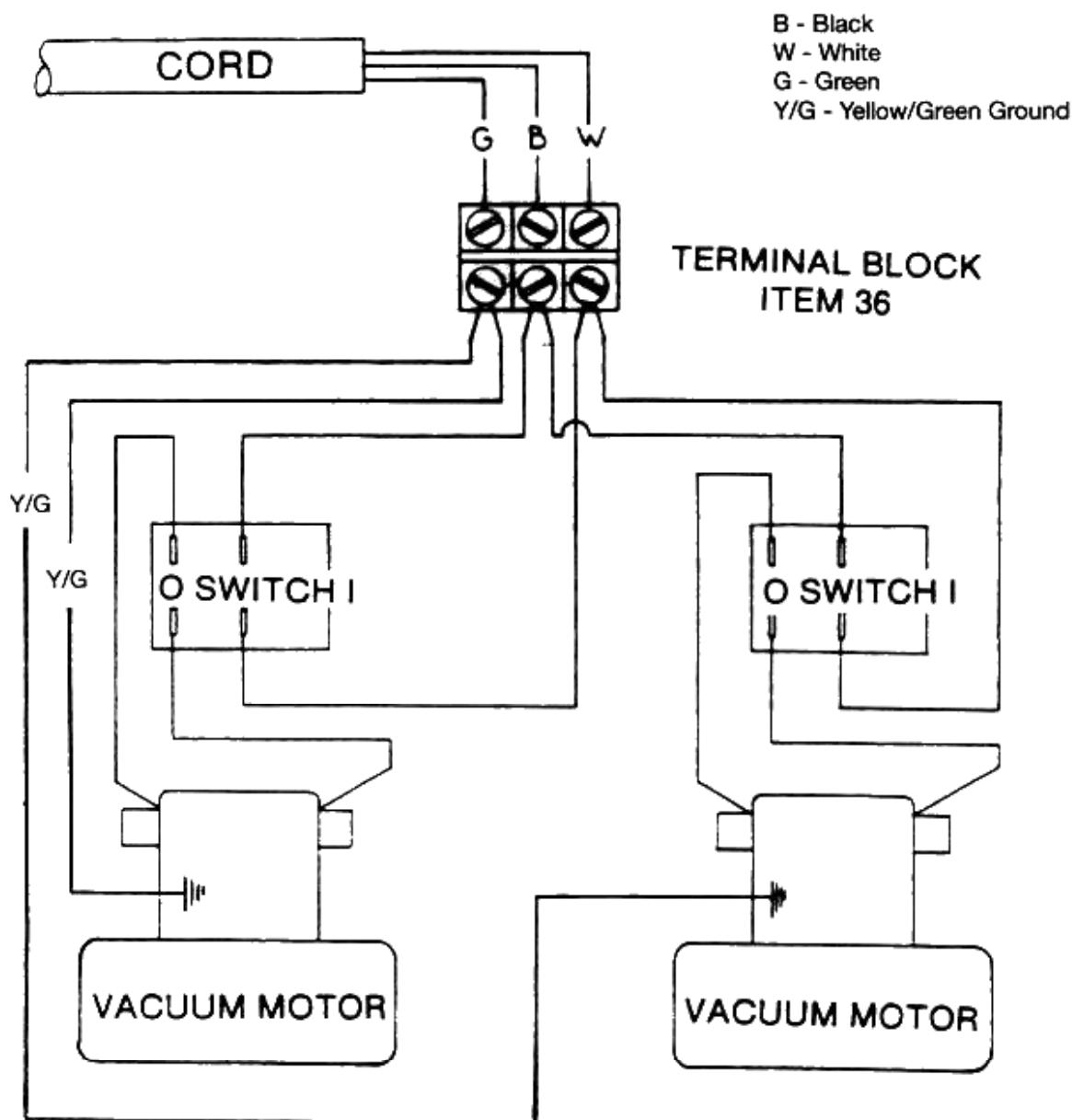
Failure to Observe These Instructions Can Cause Fire, Electrical Burn, Shock or Electrocution To Machine Operator or Bystanders.

- When using an electrical appliance, basic precautions should always be followed, including the following:
- **NEVER** attempt to operate machine unless you have been trained in its operation.
- **NEVER** allow an untrained person to operate this machine.
- Use this machine **ONLY** as described in this manual.
- **NEVER** operate machine with a damaged, broken, cut, abraded, or taped cord or plug.
- **ALWAYS** connect machine to a properly grounded electrical outlet. See page 3 for grounding instructions and wiring diagram.
- **NEVER** leave machine unattended when plugged in. Unplug machine from electrical outlet when not in use and before attempting repairs or maintenance.
- **ALWAYS** turn machine OFF before unplugging from electrical outlet.
- **NEVER** operate machine in the presence of flammable or combustible liquids, such as gasoline, fumes or dusts.
- **NEVER** attempt to pick up flammable or combustible liquids, such as gasoline, fumes or dusts.
- **NEVER** handle machine, cord or plug with wet hands.
- **NEVER** drop or insert any object into any machine opening.
- **ALWAYS** keep face, fingers, hair or any body part, or loose clothing away from any machine opening or moving part.
- **NEVER** pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
- **ALWAYS** use extreme care when cleaning on stairs or when machine is placed on stairs.
- **NEVER** operate machine if it is not working properly, if it has been dropped, damaged, exposed to weather, or dropped into water. Return machine to service center for examination and repair.
- **NEVER** operate machine with any air opening blocked. Keep all air openings free of dust, lint, hair and the like.
- **NEVER** operate machine without dustbag and/or filters in place.
- **DO NOT** pull or carry machine by electrical supply cord, use cord as a handle, close door on cord, pull cord around sharp edges or corners, expose to heated surfaces, or set heavy or sharp objects on cord.
- **NEVER** disconnect plug by pulling on cord. To disconnect from outlet, grasp the plug, not the cord.
- **DO NOT** allow to be used as a toy. Close attention is necessary when used by or near children.
- **DO NOT** expose to rain—**STORE INDOORS**.

SAVE THESE INSTRUCTIONS

DESIGNER 16 / 20

WIRING DIAGRAM



DANGER:

DO NOT ATTEMPT MAINTENANCE OR REPAIRS BEFORE DISCONNECTING CORD FROM ELECTRICAL POWER SOURCE. READ ALL INSTRUCTIONS AND FOLLOW ALL ILLUSTRATIONS CAREFULLY.

DANGER:

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the machine - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

GROUNDING INSTRUCTIONS

This machine must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

FIGURE A
115V/60 HZ

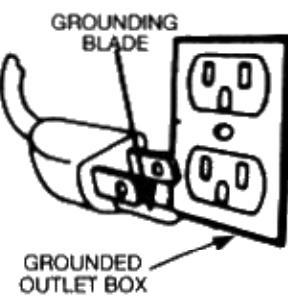


FIGURE B
115V/60 HZ

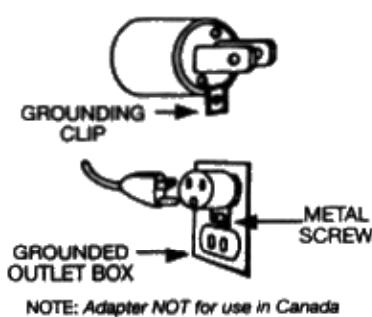
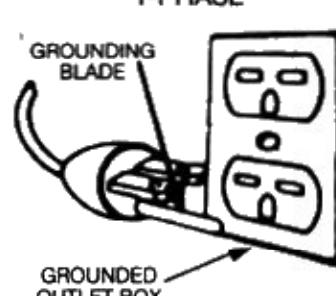


FIGURE C
230V/60 HZ
1-PHASE

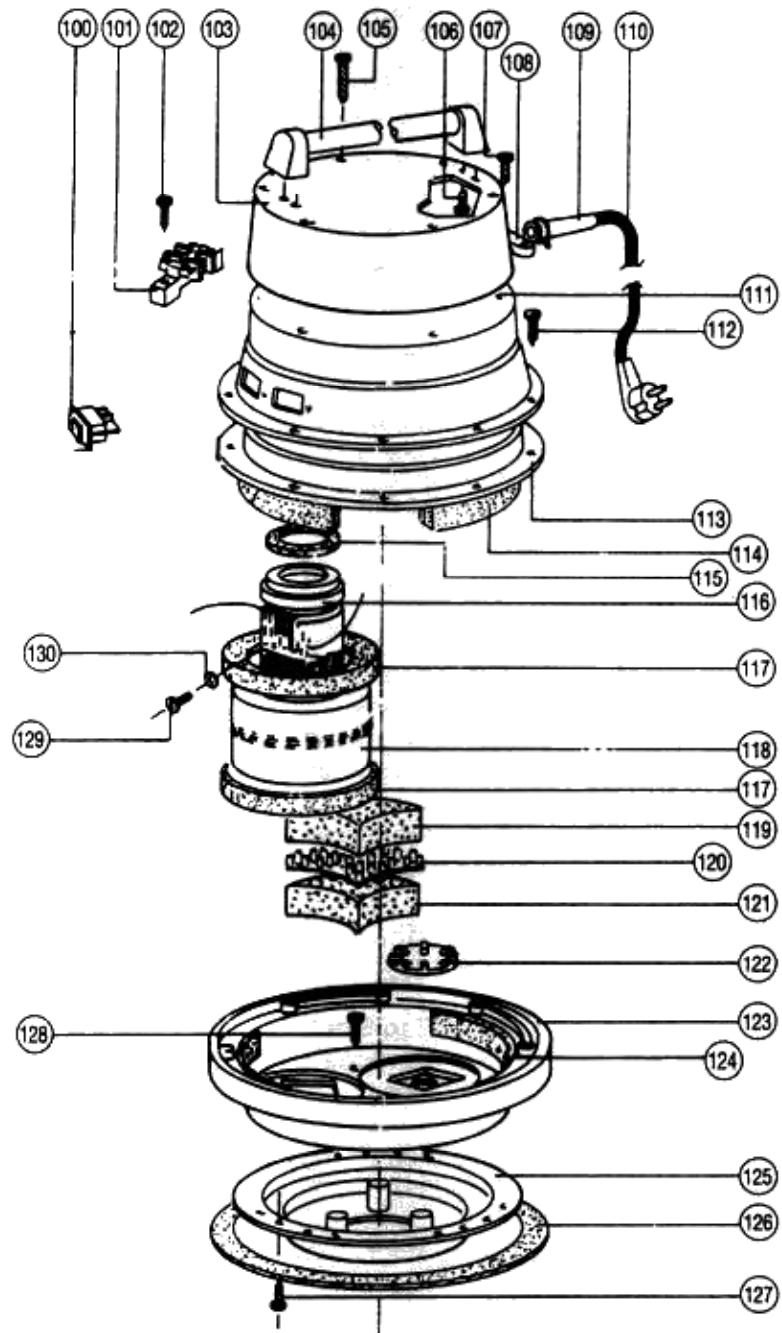


This machine is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in Fig. A. A temporary adapter that looks like the adapter illustrated in Fig. B may be used to connect this plug to a 2-pole receptacle as shown in Fig. B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a METAL screw.

**DESIGNER 16 / 20 WET - DRY VACUUM
POWERHEAD ASSEMBLY
(Square Container Only)**

<u>ITEM NUMBER</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
100	57-9-244-1	On - Off Switch, Lighted	1
101	57-9-425-1	Main Terminal Block	1
102	57-9-145-1	5.0 x 30 Self Tap Screw	1
103	57-9-226-1	Motor Top Cover	1
104	57-9-248-1	Lift Handle Assembly	1
105	57-9-246-1	5.2 x 50 Self Tap Screw	2
106	57-9-144-1	5.0 x 20 Self Tap Screw	2
107	57-9-259-1	4.3 x 22 Self Tap Screw	4
108	57-9-104-1	Cord Clamp	1
109	57-9-102-1	Cord Strain Relief, rubber	1
110	57-9-400-1	Power Cord, 50ft (15.2m), 16-3, 120 Volt	1
111	57-9-426-1	Motor Lower Cover	1
112	57-9-262-1	5.0 x 30 Self Tap Screw	8
113	57-9-427-1	Holding Ring (2 motor)	1
114	57-9-230-1	Foam Filter	3
115	57-9-203-1	Top Motor Gasket	2
116	57-9-401-1	Motor Spacing Ring	2
117	57-9-108-1	Motor Seal Gasket	2
118	02-9-643-9	Vacuum Motor, 120 Volt	2
—	02-9-645-9	Vacuum Motor, 240 Volt	2
119	57-9-231-1	Upper Triangular Spacer, Foam	3
120	57-9-232-1	Plastic Spacer	3
121	57-9-233-1	Lower Triangular Spacer, Foam	3
122	57-9-234-1	Automatic Valve (Airflow)	1
123	57-9-428-1	Lid	1
124	57-9-236-1	Filter Strip	3
125	57-9-238-1	Lid Pan	1
126	57-9-429-1	Lid Gasket	1
127	57-9-105-1	5.0 x 14 Self Tap Screw	6
128	57-9-144-1	5.0 x 20 Self Tap Screw	3
129	57-9-255-1	4.0 x 8.0 UNI Screw	1
130	57-9-265-1	Keps Nut	1

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POWERHEAD ASSEMBLY
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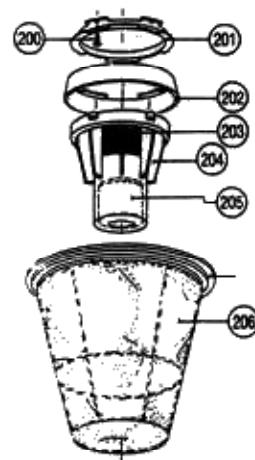
**DESIGNER 16 / 20 WET - DRY VACUUM
FILTER ASSEMBLY
(Square Container Only)**

<u>ITEM NUMBER</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
200	57-9-144-1	5.0 X 20 Self Tap Screw	4
201	57-9-525-1	Float Stand Ring	1
202	57-9-526-1	Float Stand Collar	1
203	57-9-527-1	Float Screen	1
204	57-9-218-1	Float Housing	1
205	57-9-219-1	Float	1
206	57-9-528-1	Synthetic Filter Assembly Complete	1

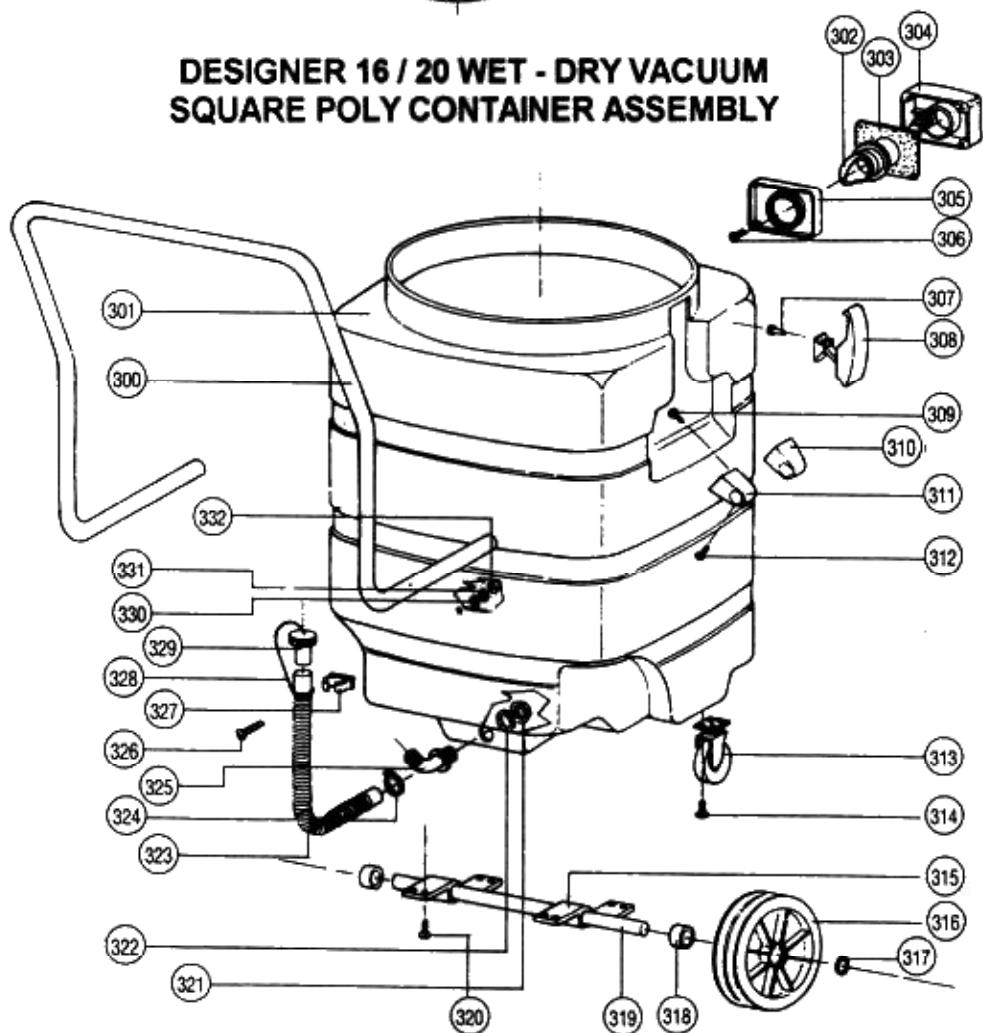
**DESIGNER 16 ONLY WET - DRY VACUUM
SQUARE POLY CONTAINER ASSEMBLY**

<u>ITEM NUMBER</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
300	57-9-625-1	Transport Handle	1
301	57-9-626-1	Poly Container (Square)	1
302	57-9-627-1	Intake Deflector	1
303	57-9-602-1	Intake Gasket	1
304	57-9-603-1	Intake (Plastic)	1
305	57-9-628-1	Intake Support	1
306	57-9-145-1	5.0 x 30 Self Tap Screw	4
307	57-9-267-1	Lid Clamp Rivet	4
308	57-9-142-1	Lid Clamp	2
309	57-9-145-1	5.0 x 30 Self Tap Screw	8
310	57-9-146-1	Transport Handle Bracket	2
311	57-9-629-1	Passing Handle Bracket	2
312	57-9-136-1	5.0 x 11 Pop Rivet (Handle Bracket)	2
313	57-9-630-1	Swivel Caster	2
314	57-9-258-1	4.0 x 15 Self Tap Screw (Caster)	8
315	57-9-633-1	Container Support Bracket	2
316	57-9-631-1	Rear Wheel	2
317	57-9-635-1	Wheel Snap Ring	2
318	57-9-634-1	Wheel Spacer	2
319	57-9-632-1	Wheel Axle	1
320	57-9-144-1	5.0 x 20 Self Tap Screw	8
321	57-9-638-1	Drain Hose Connector	1
322	57-9-637-1	Drain Seal Gasket	1
323	57-9-639-1	Drain Hose	1
324	57-9-640-1	Drain Hose Clamp	1
325	57-9-636-1	Drain Hose Barb	1
326	57-9-257-1	5.0 x 25 UNI Screw	1
327	57-9-641-1	Hose Clamp Mount Ring	1
328	57-9-642-1	Drain Hose Plug Strap	1
329	57-9-643-1	Drain Hose Plug	1
330	57-9-320-1	Plastic Washer	1
331	57-9-129-1	Flat Washer	1
332	57-9-264-1	Nut	1

**DESIGNER 16 / 20 WET - DRY VACUUM
FILTER ASSEMBLY
(Square Container Only)**



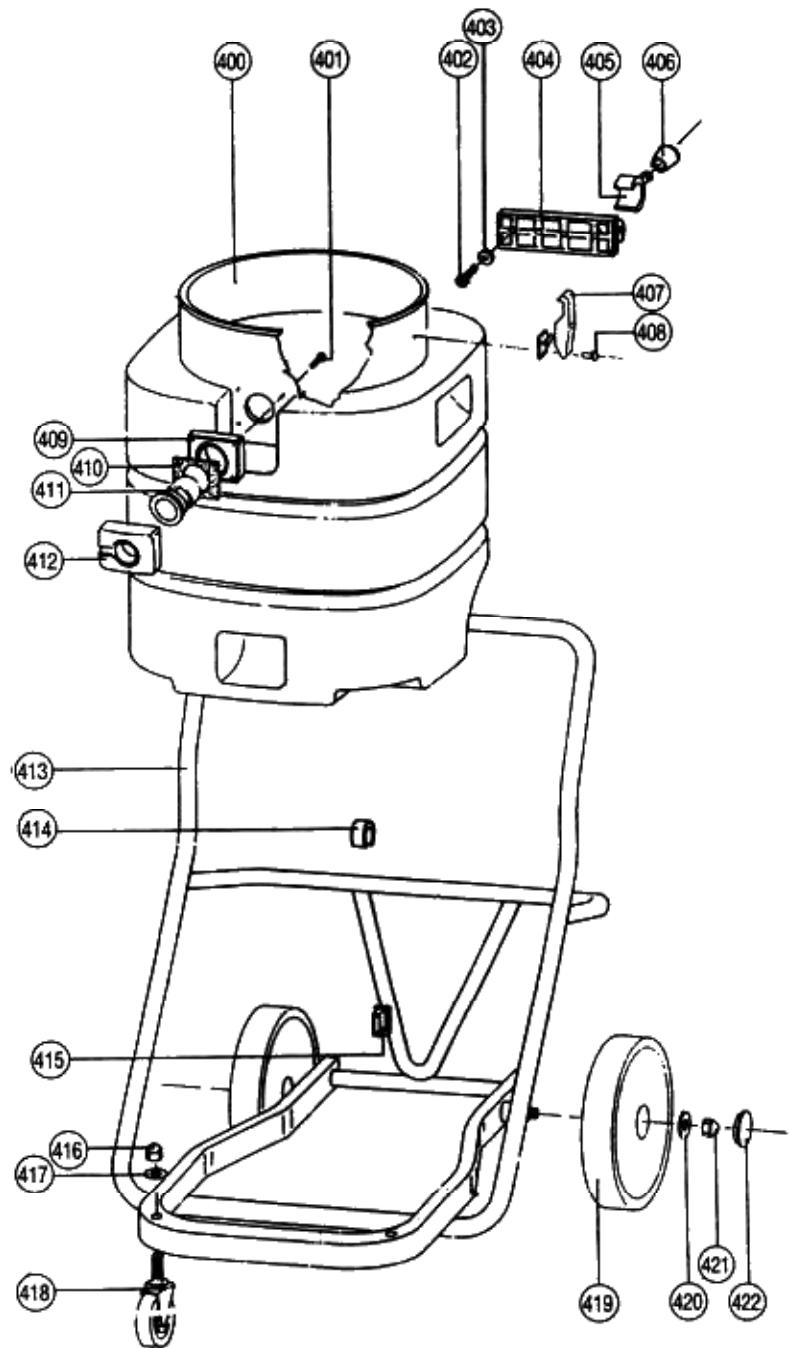
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SQUARE POLY CONTAINER ASSEMBLY**



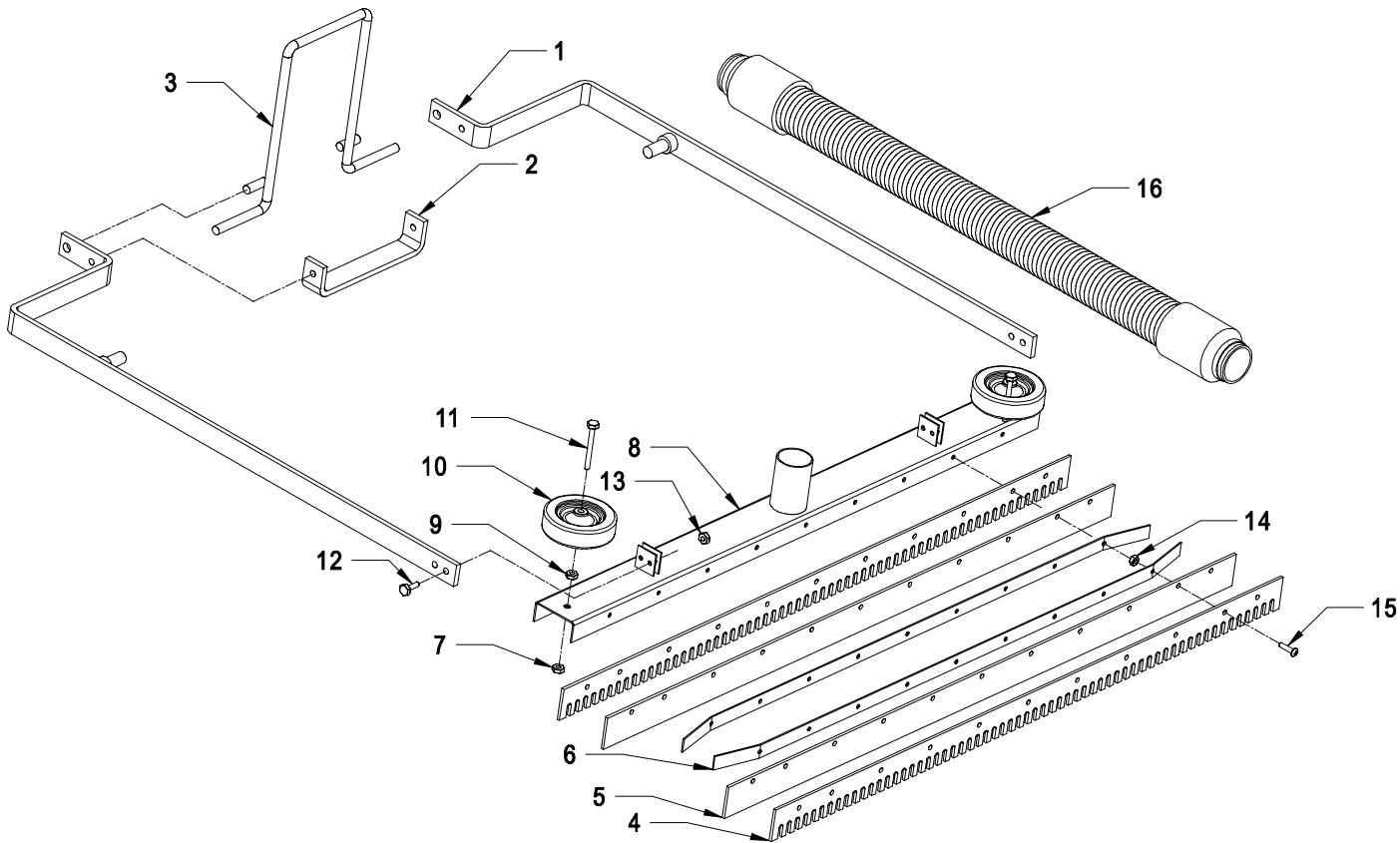
**DESIGNER 20 ONLY WET - DRY VACUUM
SQUARE POLY CONTAINER ASSEMBLY**

<u>ITEM NUMBER</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>
400	57-9-650-1	Poly Container (Square)	1
401	57-9-263-1	5.0 x 35 Self Tap Screw	4
402	57-9-261-1	5.0 x 25 Self Tap Screw	4
403	57-9-266-1	Plastic Washer	4
404	57-9-651-1	Tank Hinge Plate	1
405	57-9-652-1	Tank Hinge Clamp	2
406	57-9-653-1	Rubber Stop (Hinge)	2
407	57-9-253-1	Lid Clamp	2
408	57-9-267-1	Lid Clamp Rivet	4
409	57-9-603-1	Intake (Plastic)	1
410	57-9-627-1	Intake Deflector	1
411	57-9-602-1	Intake Gasket	1
412	57-9-655-1	Intake Support	1
413	57-9-656-1	Tip Handle and Base	1
414	57-9-654-1	Spacer Ring	2
415	57-9-305-1	Plastic Cap	1
416	57-9-287-1	Cap Nut (Caster)	2
417	57-9-308-1	Flat Washer, M10	2
418	57-9-286-1	Swivel Caster, Threaded Stem	2
419	57-9-657-1	Rear Wheel	2
420	57-9-306-1	Wheel Washer, Flat, 10 x 30	2
421	57-9-287-1	Cap Nut (Wheel)	2
422	57-9-658-1	Wheel Cap	2

**DESIGNER 20 ONLY WET - DRY VACUUM
SQUARE POLY CONTAINER ASSEMBLY**



NSS FRONT MOUNT SQUEEGEE



<u>ITEM</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1	5795341	FRONT MOUNT SQUEEGEE WITH MOUNTING BRACKET ASSEMBLY	1
2	5795411	LIFT ARM	2
3	5795421	CROSS BAR	1
4	5795431	LATCH	1
	5795351	FRONT MOUNT SQUEEGEE ASSEMBLY	1
4	5795361	BLADE - SLOTTED	2
5	5795371	BLADE - SOLID	2
6	5795381	BLADE - SUPPORT	2
7	9120900	1/4-20 HEX NUT WITH NYLOK INSERT	2
8	5795391	HOUSING	1
9	9120920	1/4-20 HEX	2
10	5795401	WHEEL	2
11	9121145	1/4-20 X 2	2
12	9121270	1/4-20 X 1	6
13	9120900	1/4-20 HEX NUT WITH NYLOK INSERT	6
14	9120350	HEX NUT WITH NYLOK INSERT	22
15	9120480	10-24 X 3/4 ROUND HEAD PHILLIPS SCREW	22
16	5795441	HOSE	1



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