





WINDSOR INDUSTRIES, INC. Denver, Colorado 80223

## INSTRUCTION MANUAL AND PARTS LIST

#### INSPECTION

Carefully unpack and inspect your extractor cabinet for shipping damage. Each unit is operated and thoroughly inspected before shipment, and any damage is the responsibility of the delivering carrier, who should be notified immediately.

## **ELECTRICAL**

The COMMANDER hot water soil extraction machine is **designed** to operate **on** a standard **15** amp, **115** volt, **60 hz A.C.** household current. Voltages below **105** volts or above **125** volts **will** cause potential darnage to vac motor and pump motor. A **25'** electric **cable** of **14/3** SJTO wire with **3-prong** plug is supplied as the power connection to the machine.

220 voit. 50 hz modelavailable.

#### GROUNDING INSTRUCTIONS

To protect the operator from electric shock, this machine must be grounded while in use. The machine is equipped with an approved three-conductor power cord and three-prong grounding type plug to fit the proper grounding type receptacle.

**WARNING:** To avoid electric shock do not expose to rain — store indoors.

### **EXTENSION CORDS**

If an extension cord is used, the wire size must be at lease one size larger than the power cord from the machine and should be limited to 75 feet in length. Extension cord must be three-wire arounded.

## **EQUIPMENT SETUP**

- 1. Install vac dome in place, centered on locating pins to insure a good seal.
- Plug power cable from machine into properly grounded wall outlet.
- Turn vacuum motor switch on and off to make sure you have electric power at machine.
- Connect vac hose to hose inlet on dome. Connect solution hose to outlet nipple on machine by sliding back knurled collar on female cou-pler and installing coupler over nipple. Re-lease collar to lock them together. Make sure coupler is secured to avoid leaks.
- Using a clean container, fill solution tank with hot water. The maximum capacity of COM-MANDER is 18 gallons. Mix in a nonfoaming concentrate for use in hot water extraction machines at the proportions as noted on the container for various carpet soil conditions.

NOTE: When using a powder cleaner, premix with hot water in clean container before adding

## OPERATING INSTRUCTIONS FOR AUTO FILL AND PUMP **OUT SYSTEM**

The accessory kit includes two 3/8" x 50' hose assemblies, one for auto fill and the other for the auto pump out. A faucet adapter kit is included to allow the auto fill hose to be connected to most bathroom/kitchen sinks and water heater faucets.

To fill solution tank, connect the quick-disconnect coupler on the auto fill to the nipple on the proportioning valve. Connect other end of hose to water source. Use faucet adapter kit as required. Liquid chemical can be induced from any size container and mixed in solution tank with hot water at the desired mixture. (Refer to enclosed valve manual for flow rate adjustment.) Turn on water source valve. When the solution level reaches one Inch below the top of the float (tank will be approximately three-quarters full) proportioning valve will shut off. When solution lever drops approximately six inches, the valve will open and fill solution tank.

For auto pump out, attach waste-water hose to pump out hose outlet adapter on machine. Discharge end of hose should be secured to slop sink, kitchen sink or other source where wastewater is to be discharged to eliminate hose being moved and dirty water being spilled outside the dumping area. Turn on auto pump out switch when pump and vac switches are switched on

With the **power** unit and floor tool in operation, the solution **flow** and waste-water discharged will be automatically controlled with the auto fill and pump out accessory kit.

## CARPET INSPECTION

Determine precisely what areas you are going to clean. Note problem areas in the carpet or tack strip. Look for loose carpet, heavily damaged areas, discolored stains, or grease spots that will require prespotting. Note the carpet type. Check the availability of hot water, drains, suitable electrical outlets. If the carpet is loose or torn, have it repaired before you start to clean it.

Plan your cleaning route, working from the most remote area toward the exit. Try not to travel over the cleaned areas for water or to dump waste. Furniture should be moved out away from walls before cleaning. If replaced on damp carpet, use foil or plastic protectors under the legs to prevent possible carpet staining. If possible, open all windows and doors to speed carpet drying.

### OPERATION

- Connect vacuum and solution hoses to wand, floor tool, or powered brush floor tool.
- 2. Turn on pump and vacuum switches.
- Start in one corner, depress solution valve lever fully and move backward at a steady pace; 25 to 30 feet per minute, cleaning a path at least half the length of the room. Release solution valve lever approximately 6 inches be-fore reaching the end of the pass to insure that cleaning solution is extracted from carpet.
- Make the next cleaning pass beside the first, overlapping about 1 inch. Continue cleaning until entire width of area has been cleaned.
- Reverse direction and clean balance of room.

On heavily soiled carpets or on areas of high foot traffic, it may be necessary to use a prespray or traffic lane cleaner applied with a separate sprayer. Do not add presprays to the machine solution tank. If you use a spotter, follow label directions exactly. Remove the spotter with the floor tool when done. Never leave any spotter in a carpet it may bleach or brown it permanently.

Shag carpets may require several passes from different directions, but be careful not to over-saturate. In these cases, make several vacuum passes without spray to extract as much moisture as possible.

Asyou work, check to see If there Is foam buildup in the recovery tank. If there is, remove the vacuum hose from the floor tool and add a little defoaming compound while the vacuum is running. Defoamer can be added to the recovery tank, but never to the solution tank.

WARNING: An overflow of foam Into the vacuum motor can cause it to fall! Constantly monitor the level of waste water in the recovery tank. When about three-quarters full, shut off the machine and empty recoverytank, using a 5 gallon bucket, or dump directly into slop sink, floor drain, etc.

## PROTECT FROM FREEZING

If it becomes necessary to store in temperatures that could drop below 45°F, the pumping system, hoses and valves must be protected from freezing with a methyl hydrate window washer antifreeze solution. Do not use ehtylene glycole or cooling system antifreezes.

- Add a gallon or two of window washer anti-freeze to the supply tank, hook up hoses to the machine and floor tool and turn the power switch **ON.** Spray until the antifreeze solution fills the solution lines.
- Disconnect solution supply hoses and vacuum out the leftover antifreeze from the supply tank. Always allow the unit to reach room temperatures before fiiling with hot water or operating.

## **DAILY MAINTENANCE**

- 1. Vacuum surplus solution from solution tank into recoverytank.
- At the end of every working day, flush entire pumping system, including floor tool, hand tool, etc. with 1 to 3 gallons of clean hot water.
- Check vac intake screen in recovery tank well. Remove any lint buildup.
- Inspect solution filter in solution tank. Filter screen can be cleaned by washing under hot
- Check bypass valve (located in solution tank). Bypass solution spray should be evident when pump is running. If valve becomes plugged, remove and clean thoroughly with hot water or white vinegar. Blow dry and reinstall.

NOTE: Bypass valve is preset at factory. **DO NOT CHANGE SETTING.** 

- Lubricate quick disconnect hose fitting with silicone lubricant. Do not use oetroleum based lubricants as they will cause damage to the "0" rings.
- 7. Check spray nozzles frequently. If they become clogged, remove them, wash thoroughly

(continued on back page)

and blow dry. Do not use pins, wire, etc. to clean nozzles as this could destroy spray pattern.

8. Periodically inspect hoses, electrical cables, filters and connections on your machine. Frayed or cracked hoses should be repaired or replaced to eliminate vacuum or solution pressure loss. Because the electrical cable Will lie on wet carpet at times, the cable must be well insulated and cable connector screws kept tight. If the cable insulation is broken or frayed, repair or replace it immediately. Don't take chances with an electrical fire or shock.

# 6 MONTHS OR 750 OPERATING HOURS

Removing Cabinet Assembly From Base:

**CAUTION:** Always disconnect the machine from power **source** before attempting any maintenance or repairs to the electrical system.

- Remove dome and turn machine upside down. Remove four screws located on extreme lower part of cabinet that secure caster base to cabinet.
- Lift up caster base to expose hoses and electrical plug connector to pump motor. Disconnect hoses at solution cabinet (quick-disconnect fittings) and electrical motor plug connector. NOTE: Solution hose connections are color coded. Make sure colors are matched when reinstalling hose, quick disconnect couplers.

### **VACUUM MOTOR**

- Remove three hex nuts holding vac motor down.
- Lift vac motor from mounting studs.
- 3. Pull off exhaust hose.
- 4. To inspect brushes, remove metal wraparound from the vac motor (one screw). Remove brush hold-downs. New brush length is 1". Brushes should be replaced when they reach 3/8" length, or after 750 operating hours.
- Inspect vacuum Intake opening for lint.. If there are large accumulations, the fan section should be disassembledand cleaned.

NOTE: Vacuum motors can usually be repaired, but such repairs should always be done by a qualified vacuum repair shop.

## **PUMP AND MOTOR**

To remove pump and motor. disconnect wires. hoses and cord tie-down. and remove four screws holding motor to base. The pump can be removed from motor by loosening the "'V" band mounting strap

## **PUMP MOTOR**

Sleeve bearings in motor require periodic re-oil once a year with 30 to 35 drops of SAE #20 non-detergent or electric motor oil Do not overlubricate

### **PUMP**

The pump has maintenance-free. self-lubricating carbon graphite internal bearings and prelubricated. sealed-for-life external ball bearings

## **ELECTRIC**

After repairs have been made on components inside the extractor, check all electrical connections to insure that they are reinstalled properly and that none are loose.

# SENSOR SYSTEM GENERAL OPERATION

The purpose of the Sensor System is to protect the pump from damage due to dry operation and to protect the vacuum from damage due to overflow of waste water. The Sensor System is functional when the sensor switch is in the ON position.

Operation of the Sensor System is dependent on low voltage electricity being conducted through water. Because the conductivity of local water and detergent can vay widely, adjustment of sensitivity is provided to enable you to adjust to your Own local conditions and chemicals. The pump adjustment screws are located to the left of the pump and vacuum switches.

The Sensor System is sensitive to two conditions:

## **PUMP**

Two metallic probes are present in the bottom of the solution tank. When approximately one inch or more of cleaning solution is present in the tank, a low voltage current passes between the two probes. If the level of solution drops below this point the current between the probes is interrupted and as a result, the machine will shut off. The red indicator light under the adjusting screw will also light up indicating that lack of cleaning solution has caused the sensor to operate.

#### **VACUUM**

Two metallic probes are located in the bottom of vacuum lank well. In normal machine operation, these probes are dry and no current tlows. However, If moisture is present from excess foam or from bucket overflow, low voltage current will flow causing the sensor to shut the machine off. The red indicator light under the adjusting screw will light up indicating that the vacuum chamber is filled

If the Sensor System shuts off the machine as described above, both Pump and Vacuum are shut down, not just one or the other.

The sensor switch allows the machine to be used to vacuum out the solution tank at the end of a cleaning job. However, care must be exercised that the pump is not operated when the solution tank is being emptied.

The sensor switch may also be used in event of a malfunction of the Sensor System. In that event care must be exercised to maintain an adequate supply of cleaning solution and not to overflow the waste-water bucket.

## SENSOR SYSTEM ADJUSTMENT PROCEDURE

Clockwise rotation of either adjustment screw increases sensitivity. However, remember that lor normal operation the Pump Sensor must sense solution and that the Vacuum must not sense water. Also. clear water is not a good electrical conductor. Therefore, always adjust your machine with normal cleaning solution. not plain water.

- Step 1. Fill the solution tank with normal cleaning solution. Turn the sensor switch ON.
- Step 2. Turn the Pump adjustment lully to the right (clockwise) maximum sensitivity.

  Turn the Vacuum adjustment lully to the left (counterclockwise) minimum sensitivity.

Turn the Pump switch on. The pump motor should now operate.

- Step 3. Turn the Pump adjustment slowly to the left (counterclockwise) just to the point that the Sensor System operates (pump shuts off). Then turn back approximately ¼ turn to the right (clockwise) with the pump running.
- Step 4. Place a rag dampened with cleaning solution on top of the two metallic sensors in the well at the bottom of the vacuum tank. Slowly turn the vacuum adjustment to the right just to the point where the sensor operates (pump shuts off).

The Pump and Vacuum sensors are now adjusted.

In actual operation you may wish to increase or decrease the sensitivity of the system, particularly in the vacuum chamber. Make the adjustments in increments no greater that ¼ turn in order to maintain adequate operation.

## **CHEMICALS**

The ABS plastic used in the tank is suitable for use with most carpet cleaning chemicals. But It is susceptible to chemical attack from some cleaning substances, such as hydrocarbon solvents and chlorinated bleaches. These noncompatible materials are not of the type normally used for carpet cleaning.

The following is a guide to chemicals which are satisfactory and those which must be avoided. Use of unsuitable compounds in the above equipment is, of course, an abuse of the equipment and resulting damage IS not covered by warranty.

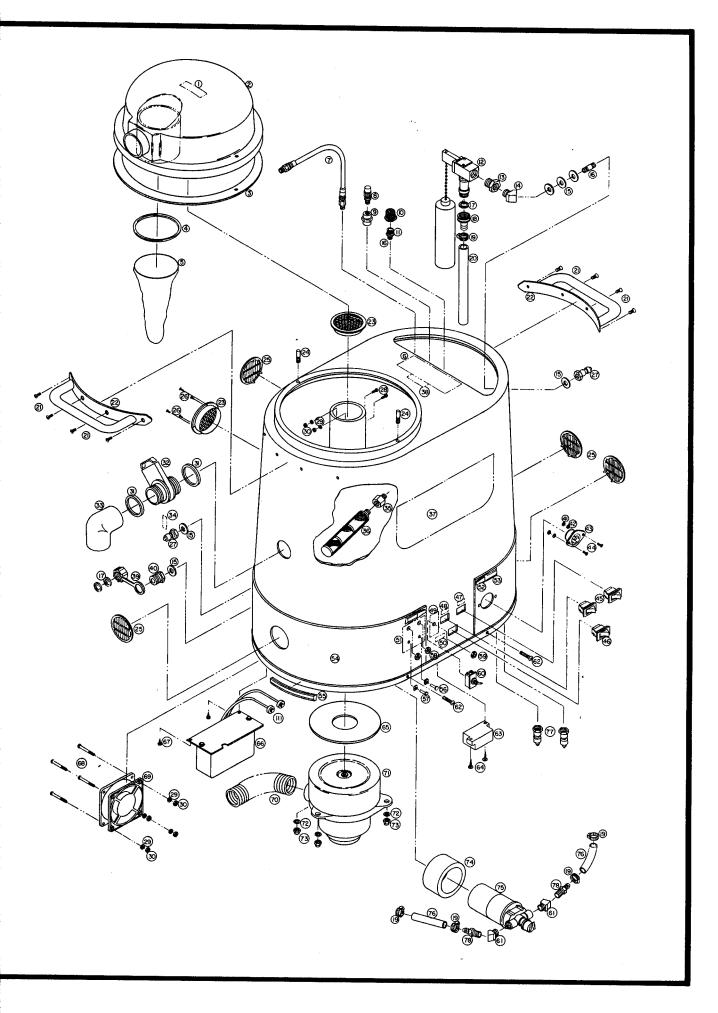
### SUITABLE CHEMICALS

Alkalis
Clorox II Bleach'
Defoaming Agents
Detergents
Ethylene Glycol
Hydroxides
Oxygen Bleaches
Soaps
Sta-Puf Fabric Softener'
Vinegar
White Monday Bleach'
\*Registered Trademark

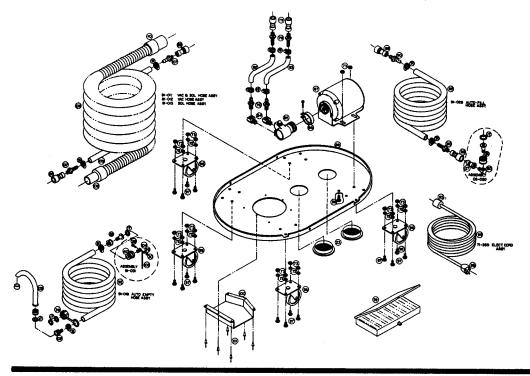
#### NONCOMPATIBLE CHEMICALS

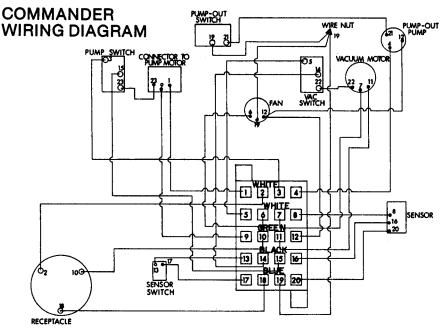
Aldehydes
Aromatic Hydrocarbons
Butyls
Carbon Tetrachloride
Clorox
Chlorinated Bleaches
Chlorinated Hydrocarbons
Lysol\*
Methyls (MEK)
Perchlorethylene(perc)
Phenols
Trichlorethylene

	TROUBLESHOOTING CHART			
	PROBLEM	FOSSIBLE CAUSE	SOLUTION	
	lo power lo machine.	Xead electrical circuit Yower switch failure	Check building circuit breaker or fuse box Fleplace	
	lectrical shock.	Faulty electrical cable Equipment not grounded	fleplace (In 3 pronged adapter. te sure ground wire is secured	
I	Aotor speed varies or doesn't run.	Motor worn-out	Fleplace	
١	.oss of vacuum.	Loose vacuum dome	(:enter and seal dome	
l		Crack in dome or detective glue pint	Ileplaceor reseal ising acrylic plastic cement only	
		Lint or dirt clogging vacuum screen	With power off (lean screen	
Į		Loose cults on vacuum hose	lighten cutts turning counterclockwise	
Į		Vacuum motor seals leaking	Replace	
I		Floor tool vacuum chamber plugged	Wash out with hose	
ł		Brokenvac hose	Replace	
ı		Damaged dome gasket	Replace	
I		Worn out vac motor	Replace	
	Hose quick dis- connect hard to insert.	Corrosion on littings	Clean littings with steel woot Soak in vinegar solution Lubricate lightly with silicon lube.	
	Not getting carpet clean.	Severe soil Conditions	Make more than one pass at right angle to irst pass	
	Carpet 100 wet.	(See listings under los : of vacuum heading )	ļ	
	Carpet browning.	Leavingcarpet too wet	Check vacuum system tor loss of vacuum	
		Too much chemicalin solution	Reduce amount of chemical Check label directions for proper concentration	
		Light carpet with no brown prevenlion	Go over carpet with both with soft with soft will be seen to see the s	
	Solution problems.	Solution hose quick disconnects	Faulty or plugged Remove and examine Replace it necessary	
		Defective or worn out pump	Repair or replace	
	Solution won't shut off.	Faultyfloor tool solution valve	Repair or replace	
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## LIMITED WARRANTY

WINDSOR warrants to the original purchaserluser that this product is free from defects in workmanship and materials underly complying the product purchase ware frame.

without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with the applicable operation and instruction manuals from warranty does not apply to moral wear of thems whose life is dependent on their use and care, such as cords, switches. hoses. rubberparts, electric motor parts, etc.

IN ADDITION to the above warranty, for a period of 5 YEARS WINDSOR will, without charge, either replace or return to working order, at its option, any solution tank that falls as a result of defects in materials or workmanship during normal

service and usage. except for transportation costs.

service and usage. except for transportation costs. This limited warranty is in lieu of ail other warranties expressed or implied and releases WINDSOR from all other obligations and is extended only to the original userfourchase of this product. WINDSOR is not responsible for costs for repairs performed by persons other than those specifically authorized by WINDSOR. This warranty does not apply to damage from transportation. alterations by unauthorized persons, misuseor abuse of the agricultural use of noncomoatible chemicals, or damage product.

If a difficulty develops with this machine, you should contact the dealer from whom it was purchased.



## WINDSOR INDUSTRIES, INC.

2635 South Santa Fe Drive • Denver, Colorado 80223 303/777-7774 • TWX 9L0-9310565

(EY	PART NO.	DESCRIPTION
1 2	63-035	Decai
3	10-167 50-010	Dome Gasket - 47"
3A 4	50-010 91-027 08-027	Dome Assy. (includes #1, #2 and #3) Retaining Band - Dome Filter
5	06-026 63-053	Filter Dome Intele
7	81-026 55-025	Hose Assy., CDR-I Internal Pump Out Valve, Nugro Adi, Bypass
9	55-188	Coupler 1/4"
10 11	55-218 55-226	Solution Strainer, 3/8 FPT x 40 Mesh Bushing 3/8 MPT x 1/4 FPT
12	55-396 55-226	Valve, Liquid Proportioning
14	55-258 33-105	Hex Bushing, 3/8 MPT x 1/4 FPT St. El 1/4" 45* Flat Washer
16	55-256	I Close Ninnie 1/4"
17 18	50-034 55-005	Washer, 3/4" Rubber Hosebarb, 3/4 FH x 5/8 HB Hose Clamp 3/4" Dia.
19 20	55-317 55-477	Hose Clamp 3/4" Dia. Hose, 5/8 Nylobrade 12" Long
21 22	33-119	Screw, OHMS 10-32 x 3/4"
22 23 24	37-158 30-037	Cabinet Handle Screen, 3" Dia.
25	33-146 30-025	Stud, 1/4 - 20 x 2 1/8 Louver, 2 1/2" Dia.
26 27	33-112 55-192	Screw, Self-Tapping 2-56 x 1/4#F Nipple, Quick-Disconnect 1/4 FPT
28	33-034	Screw 6 - 32 x 3/4"
29 30	33-164 33-035	Lockwasher,#6 Hex Nut 6 - 32
31 32 33	50-014 55-323	Gasket, Dump Valve Dump Valve 1.5" Dia. Slide Type Elbow, 1 1/2 FPF x Slip PVC Decal Waste
33	16-188	Elbow, 1 1/2 FPF x Slip PVC
34 35	63-139 55-292	Adapter 1/2 FPT x 1/4 MPT Filter 1 1/4 x 6 1/2, 100 Mesh
36 37	55-367 63-043	Fliter 1 1/4 x 6 1/2, 100 Mesh CDR-I Label
34 35 36 37 38 39	63-037	Decal
40	55-004 55-002	Cap, 3/4 Hose Adapter, 3/4 MH x 1/4 FPT Hex Nut 8 - 32
41 42	33-020 33-056	Hex Nut 8 - 32 Lockwasher, #8
43 43A 44	21-099 21-104	Twist Lock Receptacle
44	33-120	Twist Lock Receptacle (220 Volt) Screw, 8 · 32 x 1/2 Lighted Rocker Switch
45 46	21-019 21-072	Lighted Rocker Switch Non-Lighted Rocker Switch
47 48	63-008 63-007	Pump Label Vacuum Label
49	63-069	Decal, Sensor Switch
50 51	63-144 63-070	Decal, Pump Out Switch Decal, Sensor
51 52 53	69-018 69-011	Trim Tip Blue Trim 6 1/2'
54	75-006MCHD	Machined Cabinet
54 55 58 57 58	89-011 21-054YLW	Blue Trim 7 1/2' Indicator Light (Yellow Wire)
57 58	21-054RED 33-125	Indicator Light (Red Wire)
59 60	33-060-A 21-038	Indicator Light (Red Wire) Indicator Light (Red Wire) Hex Nut, 3/8 - 32 Hex Nut, 1/2 - 24 Toggle Switch St. El, 45* 3/8 Screw, 1/4 - 20 x 1 RHMS Terminal Block
61	55-390	St. El. 45 ° 3/8
62 63	33-132	Screw, 1/4 - 20 x 1 RHMS
64 65	33-058 50-024 21-051	Screw, #10 x 3/4 Self-Tapping Gasket, Vac Motor 7.5 Dia. Sensor 120V
66	21-051	Gasket, Vac Motor 7.5 Dia. Sensor 120V
66A 67	21-066 33-110	Sensor 220V Screw#8 x 3/4 Self-Tapping Screw, 6 - 32 x 2
68 69	33-200 21-110	Screw, 6 - 32 x 2 Cooling Fan 120V
AOA	21-144	Cooling Fan 220V
70 71	55-170 25-036	Vac Hose, 12" Long Vac Motor, 3 - Stage 120V
71A 72	25-037 33-094	Vac Motor, 3 - Stage 220V Flat Washer
73	33-033 12-022	Lock Nut, 1/4 - 20
74 75 75A	24-224	Insulation Barrier Pump Out Pump 120V
/5A 76	24-181 55-010	Pump Out Pump 120V Pump Out Pump 220V 3/8 Nylobrade Hose (12 1/2" Long) Nipple, 3/8 Straight Through
76 77 78	55-154 55-231	Nipple, 3/8 Straight Through
79	55-180	Nipple, 3/8 Straight Through Hosebarb, 3/8 MPT x 3/8 HB Coupler, 3/8 FPT Straight Through St. El. 90° 1/4"
80 81	55-186 55-001	St. El. 90" 1/4" Adapter, 1/4 MPT x 3/4 FH
82 83	55-010 55-010	St. El. 90" 1/4" Adapter, 1/4 MPT x 3/4 FH Nylobrade Hose, 3/4 x 17" Nylobrade Hose, 3/4 x 14" St. El. 90" 3/8"
84	55-166	St. El. 90° 3/8"
85 86	24-164 33-158	Pump "V" Band Clamp
87 87A	24-163 24-162	Pump Motor 120V Pump Motor 220V
		Machined Page
80	10-122MCHD	Counter 1/4" Outob Disconness
89 90	55-192 55-327	Coupler, 1/4" Quick-Disconnect Hosebarb, 1/4 MPT x 3/8 HB
89 90 91	55-192 55-327 55-196 55-010	I HOSEDAND. 1/4 MPIX 3/5 HB
89 90 91 92 93	55-192 55-327 55-196 55-010 21-094 21-105	Hose Clamp Nylobrade Hose 3/8 x 50' Twist-Lock Cord End 115V Twist-Lock Cord End 20V
89 90 91 92 93 93A	55-192 55-327 55-196 55-010 21-094 21-105	Hose Clamp Nylobrade Hose 3/8 x 50' Twist-Lock Cord End 115V Twist-Lock Cord End 20V
89 90 91 92 93 93A 94	55-192 55-327 55-196 55-010 21-094 21-105 71-269 21-027 30-043	HoseCarp, 1/4 MPT X 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50* Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire
89 90 91 92 93 93 94 95 96 97	55-192 55-327 55-196 55-010 21-094 21-105 71-269 21-027	HoseCarp, 1/4 MPT X 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50* Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire
89 90 91 92 93 93 94 95 96 97 98	55-192 55-327 55-196 55-010 21-094 21-105 71-269 21-027 30-043 33-037 35-009	HoseCarp, 1/4 MPT X 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50* Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1 1 HHMS Screw, 1/4 - 20 x 1 1 1/4 HHMS Faucet Adapter Kit
89 90 91 92 93 93 94 95 96 97 98 99	55-192 55-327 55-196 55-010 21-094 21-105 71-269 21-027 30-043 33-037 33-037 33-039 55-009 10-020MC 33-185	HoseCarp, 1/4 MPT X 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50* Twist-Lock Cord End 118V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1 7 HHMS Screw, 1/4 - 20 x 1 1/4 7 HHMS Faucet Adapter KI Deflector, ABS Machined
89 90 91 92 93 93 94 95 96 97 98 99 00 01	55-192 55-327 55-196 55-010 21-094 21-105 71-269 21-027 30-043 33-037 33-039 55-009 10-020MC	HoseCarp, 1/4 MPT x 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50' Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1" HHMS Screw, 1/4 - 20 x 1 1/4" HHMS Faucet Adapter Kit Deflector, ABS Machined Pop Rivet Adapter, 3/4 MPT x 3/8 HB Goose Neck
89 90 91 92 93 93 94 95 96 97 98 99 00 01 02	55-192 55-327 55-327 55-198 55-010 21-094 21-105 71-269 21-027 30-043 33-037 33-037 33-037 33-037 33-038 55-009 10-020MC 33-185 55-018 33-038	HoseCarp, 14 MPT x 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50* Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1 1* HHMS Screw, 1/4 - 20 x 1 1/4* HHMS Faucet Adepter Kit Deflector, ABS Machined Pop Rivet Adepter, 3/4 MPT x 3/8 HB Goose Neck Plug, 1/4 MPT
89 90 91 92 93 93 94 95 96 97 98 99 00 01 02 03 04 05	55-192 55-327 55-196 55-010 21-094 21-105 71-269 21-027 30-043 33-037 33-039 35-009 10-020MC 33-185 55-002 55-018 33-038 33-017 81-012	HoseCarp, 14 MPT x 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50* Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1 1* HHMS Screw, 1/4 - 20 x 1 1/4* HHMS Faucet Adepter Kit Deflector, ABS Machined Pop Rivet Adepter, 3/4 MPT x 3/8 HB Goose Neck Plug, 1/4 MPT
89 90 91 92 93 93 93 95 99 90 00 01 02 05 06 07 08	55-192 55-327 55-196 55-019 55-019 55-019 21-094 21-105 71-269 21-027 30-043 33-037 33-039 35-009 10-020MC 33-185 55-002 55-018 33-037 33-039 33-039 33-039 33-039 33-031 55-002 55-018 33-039 33-0	HoseCarp, 14 MPT x 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50* Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1 1* HHMS Screw, 1/4 - 20 x 1 1/4* HHMS Faucet Adepter Kit Deflector, ABS Machined Pop Rivet Adepter, 3/4 MPT x 3/8 HB Goose Neck Plug, 1/4 MPT
89 90 91 92 93 93 94 95 96 97 98 99 00 00 00 00 00 00 00 00 00 00 00 00	55-192 55-327 55-327 55-198 55-010 21-094 21-105 71-269 21-027 30-043 33-037 35-042 55-042 55-215	HoseCarn, 14 MPT x 3/8 HB HoseClamp Nylobrade Hose 3/8 x 50' Twist-Lock Cord End 118V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1 1 H HMS Screw, 1/4 - 20 x 1 1 / 4 H HMS Faucet Adapter KII Deflector, ABS Machined Pop Rivet Adapter, 3/4 MPT x 3/8 HB Goose Neck Plug, 1/4 MPT Jack Chain Vac Hose, Assy, 2" x 24' Hosebarb, 1/4 MPT x 1/4 HB Hose Cuff, 1 1/2 Cuff x 2" Hose Nylobrade Hose, 1/4 x 25'
88 89 90 91 91 92 93 93 94 95 99 99 99 99 90 00 00 00 00 00 00 00 00	55-192 55-327 55-196 55-019 55-019 55-019 21-094 21-105 71-269 21-027 30-043 33-037 33-039 35-009 10-020MC 33-185 55-002 55-018 33-037 33-039 33-039 33-039 33-039 33-031 55-002 55-018 33-039 33-0	HoseCarp, 1/4 MPT X 3/8 HB Hose Clamp Nylobrade Hose 3/8 x 50' Twist-Lock Cord End 115V Twist-Lock Cord End 220V Electric Cord 14/3 Cord End 3-Wire Caster Screw, 1/4 - 20 x 1" HHMS Screw, 1/4 - 20 x 1 1/4" HHMS Faucet Adapter Kit Deflector, ABS Machined Pop Rivet Adapter, 3/4 MPT X 3/8 HB Goose Neck Plug, 1/4 MPT

COMMANDER PARTS LIST