INSTRUCTIONS–PARTS LIST 308–422

Rev. A

This manual contains important warnings and information.
READ AND RETAIN FOR REFERENCE

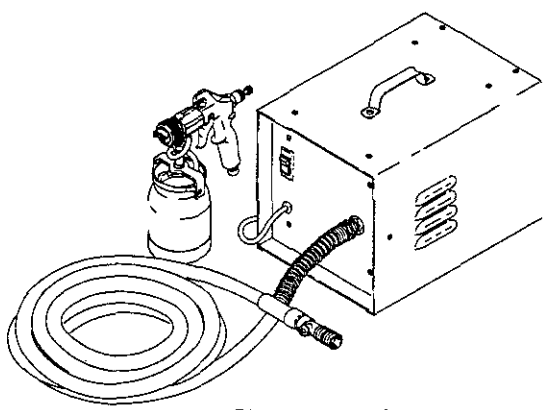
CX-7, CX-8, and CX-9 Turbine Sprayers

110/120 V 50/60 Hz
CX–7, CX–8 5 psi (0.34 bar)
CX–9 6 psi (0.41 bar)

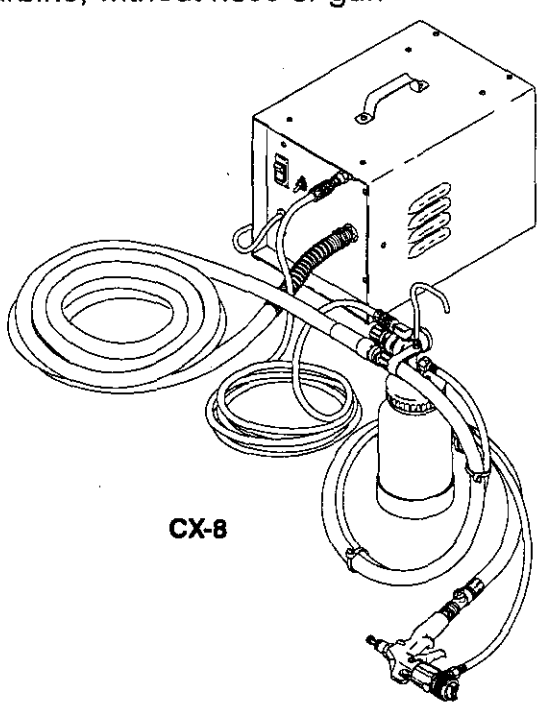
Model M70102
Complete CX–7 Turbine, with hose and turbine gun
Model M71281
Basic CX–7 Turbine, without hose or gun

Model M70122
Complete CX–8 Turbine, with remote 2 qt cup, hose, and turbine gun
Model M71282
Basic CX–8 Turbine, without hose or gun

Model M70136
Complete CX–9 Turbine, with hose and turbine gun
Model M71283
Basic CX–9 Turbine, without hose or gun



CX-7 and CX-9 03015



CX-8

03016

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440–1441

WARNINGS

For Professional Use Only. Observe All Warnings.
Read and understand all instruction manuals before operating equipment.

EQUIPMENT MISUSE HAZARD

General Safety
Any misuse of the spray equipment or accessories, such as improper usage, over pressurizing, modifying parts, using incompatible chemicals and fluids, or using worn or damaged parts, can cause them to rupture and result in serious injury, fire, explosion or property damage.

- Never point the spray gun at anyone or at any part of the body.
- Never put hand or fingers over the spray nozzle.
- Never try to stop or deflect leaks with your hand or body.
- Always turn off the air supply to the gun before removing the spray gun cup.
- Check all spray equipment regularly and repair or replace worn or damaged parts immediately.
- Only use genuine Graco replacement parts when servicing the gun.
- Never alter or modify any part of this equipment; doing so could cause it to malfunction.
- Read and follow the fluid and solvent manufacturer's literature regarding the use of protective eyewear, gloves, clothing, respirator and other equipment.

Fluid Compatibility
Be sure all fluids and solvents used are chemically compatible with the "Wetted Parts" shown in the **Specifications** on page 5. Always read the fluid and solvent manufacturer's literature before using the fluid or solvent in this gun.

Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in the turbine spray system, which contains aluminum and/or galvanized-coated parts. Such use could result in a serious chemical reaction, with the possibility of explosion, which could cause death, serious injury, and/or substantial property damage.

System Pressure
The CX–7 and CX–8 have a psi of 5 (0.34 bar) and the CX–9 has a psi of 6 (0.41). Never exceed the maximum pressures of the turbine or any other component or accessory used in the system.

To relieve pressure, turn off the turbine. For pressure relief of remote pressure pots for the CX–8, refer to the turbine gun manual, 308–336.

HOSE SAFETY

Tighten all fluid connections securely before each use.

Never use a damaged hose. Before each use, check the entire hose for cuts, leaks, abrasion, bulging cover, or damage or movement of the hose couplings. If any of these conditions exist, replace the hose immediately.

Do not use fluids or solvents which are not compatible with the system air hose(s).

FIRE OR EXPLOSION HAZARD

Sparking and Flammable Vapors Hazard
Sparking can be expected in the normal operation of the turbine motor. Sparks could ignite fumes from flammable liquid, dust particles and other flammable substances in the spray area, and cause serious injury and property damage. Be sure to follow the precautions below:

- When flammable liquid is sprayed or used for flushing or cleaning equipment, the turbine must be placed at least 20 feet (6.1 m) away from areas where hazardous concentrations of flammable vapors are likely to occur.
- Use additional air hose if necessary to ensure that the turbine is operated in a clean, dry, well ventilated area.
- Never place the turbine inside a spray booth! Use this equipment outdoors or in extremely well ventilated areas.

Ignition Sources
Avoid all ignition sources such as static electricity from plastic drop cloths, open flames such as pilot lights, hot objects such as cigarettes, arcs from connecting or disconnecting power cords or turning light switches on and off. Extinguish or remove all sources of ignition.

Grounding
To reduce the risk of static sparking, ground the turbine and all other spray equipment used or located in the spray area. Check your local electrical code for detailed grounding instructions for your area and type of equipment.

To ground the turbine: Plug the power supply cord into a properly grounded outlet. Do not remove the grounding prong from the power cord. Do not use an adapter. Extension cords must have three wires and be rated for a minimum of 15 amps.

IMPORTANT

United States Government safety standards have been adopted under the Occupational Safety and Health Act. These standards--particularly the General Standards, Part 1910 and the Construction Standards, Part 1926--should be consulted.

Table of Contents

Warnings 2
General Information 4
Specifications 5
Dimensions 5
Setup 6
Shutdown 9
Maintenance 10
Troubleshooting 11
Repair 12
Parts 15
Accessories 23
Warranty ..... Back Cover

General Information

The Series 700 Turbine Spray Gun can spray most coatings or finishes currently being used for automotive refinish, industrial, aerospace, marine, wood, plastic and architectural applications.

This spray gun typically utilizes 5 psi (0.34 bar) for CX–7 and CX–8 and 6 psi (0.41 bar) for the CX–9 inbound air pressure to produce high quality paint finishes. The gun produces a cone of air that carries and directs the paint from the gun to the surface, minimizing overspray and increasing transfer efficiency. This enables painters to comply with new clean air laws that are designed to reduce VOC (volatile organic compounds) emissions, eases paint application by requiring fewer paint passes to obtain coverage, and saves on both material and clean-up time.

Refer to the turbine gun manual, 308–336, for more information on the operation and use of the turbine spray gun.

Unpack the Graco Turbine Sprayer from the shipping carton and inspect for any possible shipping damage. If necessary, call the Graco Customer Service toll–free number at 800–328–0211.

The contents of the CX–7 Turbine Sprayer, Model M70102, includes:

- 1 CX–7 Turbine Sprayer, M72781
- 1 Turbine Gun, M70308
- 1 20 ft. hose, M71580
- 1 Sprayer Instruction Manual, 308–422
- 1 Gun Instruction Manual, 308–336

The contents of the CX–8 Turbine Sprayer, Model M70122, includes:

- 1 CX–8 Turbine Sprayer, M72782
- 1 Turbine Gun, M70361
- 1 20 ft. hose, M71580
- 1 2 qt. cup, M70962
- 1 20 ft. braided air hose, M71588
- 10 wire ties, M71179
- 1 male, quick disconnect, M70675
- 1 Sprayer Instruction Manual, 308–422
- 1 Gun Instruction Manual, 308–336

The contents of the CX–8 bare sprayer, Model M71282, includes:

- 1 CX–8 Turbine Sprayer, M72782
- 1 Sprayer Instruction Manual, 308–422

The contents of the CX–9 Turbine Sprayer, Model M70136, includes:

- 1 CX–9 Turbine Sprayer, M72783
- 1 Turbine Gun, M70308
- 1 20 ft. hose, M71580
- 1 Sprayer Instruction Manual, 308–422
- 1 Gun Instruction Manual, 308–336

The contents of the CX–9 bare sprayer, Model M71283, includes:

- 1 CX–9 Turbine Sprayer, M72783
- 1 Sprayer Instruction Manual, 308–422

Specifications

Power Requirements	110/120 VAC, 50/60 Hz
Amps @ 120 volts	
CX–7	1 phase, 8 amp minimum
CX–8, CX–9	1 phase, 10 amp minimum
Power Cord	No. 16 AWG, 3 wire, 10 ft (3 m)†
CFM unrestricted (3/4" restriction)	
CX–7, CX–8	97 CFM
CX–9	105 CFM
Turbine Stages	2
Maximum Turbine Hose Length	
CX–7, CX–8	40 ft (12 m)
CX–9	60 ft (18 m)
Cup	
CX–7, CX–9	1 qt
CX–8	2 qt

† *DO NOT exceed 100 ft , 12 AWG extension cord*

PTFE : *a registered trademark of the Du Pont Corporation.*

Wetted Parts

Bare Spray Gun	Stainless Steel, PTFE Hard-coated Aluminum,
Spray Gun Cups	Aluminum, Polyethylene
2 Quart Accessory Remote Pressure Pot	Aluminum, Polyethylene
2-1/2 Gallon Accessory Remote Pressure Pot	Galvanized Steel, EPDM (standard)

Specifications

Power Requirements ..... 110/120 VAC, 50/60 Hz
Amps @ 120 volts
CX–7 ..... 1 phase, 8 amp minimum
CX–8, CX–9 ..... 1 phase, 10 amp minimum
Power Cord ..... No. 16 AWG, 3 wire, 10 ft (3 m)†
CFM unrestricted (3/4" restriction)
CX–7, CX–8 ..... 97 CFM
CX–9 ..... 105 CFM
Turbine Stages 2
Maximum Turbine Hose Length
CX–7, CX–8 ..... 40 ft (12 m)
CX–9 ..... 60 ft (18 m)
Cup
CX–7, CX–9 ..... 1 qt
CX–8 ..... 2 qt

† *DO NOT exceed 100 ft , 12 AWG extension cord*

PTFE *is a registered trademark of the Du Pont Corporation.*

Wetted Parts
Bare Spray Gun ..... Stainless Steel, PTFE Hard-coated Aluminum,
Spray Gun Cups ..... Aluminum, Polyethylene
2 Quart Accessory Remote Pressure Pot ..... Aluminum, Polyethylene
2-1/2 Gallon Accessory Remote Pressure Pot ..... Galvanized Steel, EPDM (standard)

CX–8 Air Compressor
CFM 4
HP ..... 130 HP
PSI ..... 28 psi (1.7 bar)

Turbine Shipping Weight (w/o pkg, hose, or gun)
CX–7 ..... 40 lb (18 kg)
CX–8 ..... 47 lb (21.3 kg)
CX–9 ..... 46 lb (21 kg)

Dimensions

Turbine Diameter
CX–7, CX–8 ..... 5.7 in (144.78 mm)
CX–9 ..... 7.2 in (182.88 mm)

Setup

NOTE: Refer to the turbine gun manual, 308–336, for information on the operation and setup of the gun.

Connect the Fluid and Air Supply

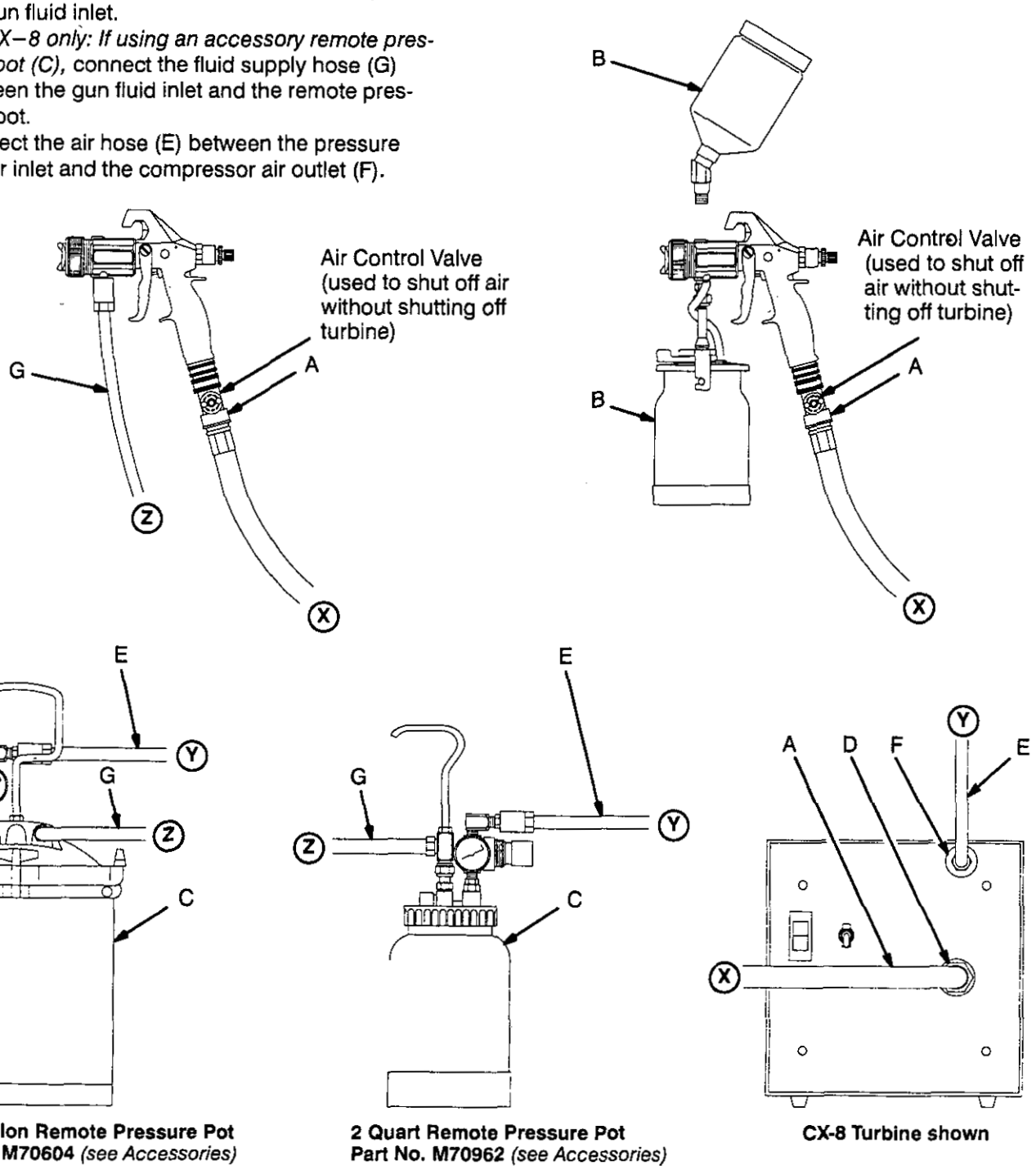
1. Connect the hose to the gun.
2. Connect the gun air supply hose (A) between the turbine air outlet (D) and the gun air inlet. DO NOT use a wrench to tighten connections; hand–tighten only. See Fig. 1.
3. *If using a spray gun cup (B),* connect the cup to the gun fluid inlet.
4. *For CX–8 only: If using an accessory remote pressure pot (C),* connect the fluid supply hose (G) between the gun fluid inlet and the remote pressure pot.
   Connect the air hose (E) between the pressure pot air inlet and the compressor air outlet (F).

NOTES:

- The circled letters in Fig. 1 indicate hose line connections.
- Only the CX-8 turbine unit includes a compressor for use with a remote pressure pot.

Connect to Electric Supply

1. Plug the sprayer power cord into a grounded outlet.



2-1/2 Gallon Remote Pressure Pot Part No. M70604 *(see Accessories)*

2 Quart Remote Pressure Pot Part No. M70962 *(see Accessories)*

CX-8 Turbine shown

Fig. 1 02859

Setup

Prepare the Fluid

1. Always strain the fluid before spraying; this includes color, reducer and hardeners if used.

2. When using a turbine spray system, you need to use a slower drying reducer or thinner to compensate for the faster drying time caused by the warm air of the turbine. Do not over reduce.

CAUTION

The performance of the turbine sprayer will vary with the viscosity of the material. Unnecessary hose length will cause the air pressure to drop.

Paint Reduction – Automotive Type Finishes

Reduce and catalyze all paint to manufacturer's specifications. To compensate for the faster drying time of turbine systems, use a reducer one-step slower than what is used for conventional air spray.

Paint Reduction – Industrial or Domestic Coatings

Reduce and catalyze all paint to manufacturer's specifications. If no reductions are given, first thoroughly mix the fluid to be sprayed. Then gradually mix in the proper reducer, testing the fluid until you have the correct spraying consistency.

To test the consistency: Remove the stir stick from the thinned paint. When the paint stream running off the stir stick breaks into droplets, the first few drops should be about one second apart.

Fill the Cup or Remote Pressure Pot

Spray Gun Cup

WARNING

The spray gun cup is pressurized by the gun's air supply. To reduce the risk of serious injury from pressurized fluid or accidental spray from the gun, always turn off the air supply to the gun before removing the spray gun cup.

Only fill the cup 3/4 full to help keep the air pressure tube clean, then install the cover. The under-cup cover has a latch (H) to secure it to the cup. The over-cup has a ring with notches (J) that secures the cup hood into place when locked in place on the cup.

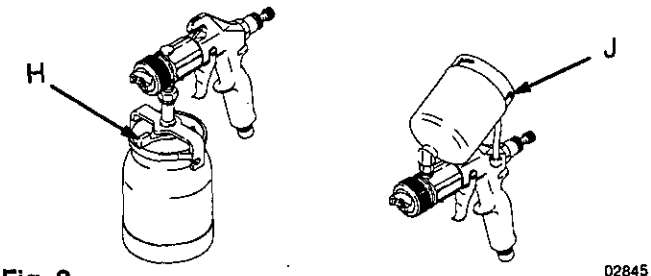


Fig. 2 02845

Accessory Remote Pressure Pot

WARNING

The accessory remote pressure pots remain pressurized until pressure is manually relieved. To reduce the risk of serious injury from pressurized fluid or accidental spray from the gun, always relieve pressure in the pressure pot before loosening or removing the cover.

1. Relieve the remote pressure pot pressure by following these steps:

   a. Turn off the air supply to the pressure pot.

   b. *2 1/2 Gallon Remote Pot:* Pull the pressure relief valve ring (205) until pressure is completely relieved.
   2 Quart Remote Pot: Turn out the pressure relief knob (113) about one turn. Wait until pressure is completely relieved before removing the cover. Close the knob before using the system again. See Fig. 3.

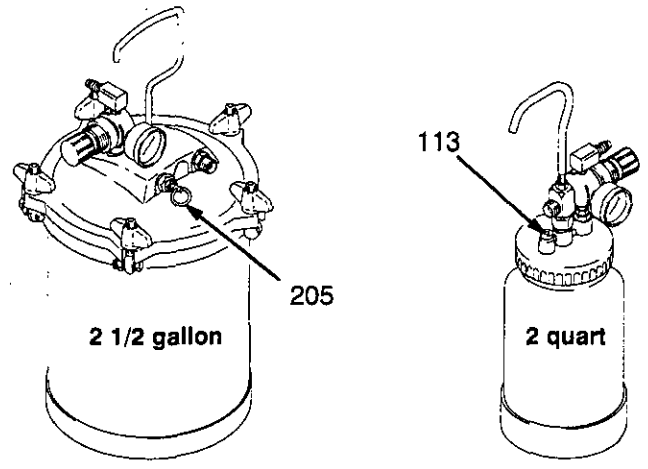


Fig. 3 02860 02882

2. Remove the pressure pot cover and fill the pressure pot. Secure the cover.

NOTE: *2 quart remote pressure pot only:* lightly coat the cover threads with petroleum jelly.

Setup

CAUTION

If the 2 quart remote pressure pot is accidentally tipped over or held at too great of an angle, fluid may leak into the air regulator. Take precautions to avoid this. If fluid does get into the regulator, clean it immediately.

CAUTION

Do not tighten the pressure pot cover more than hand-tight. Excessive tightening may damage the cover gasket.

Prepare the Surface to be Sprayed

To achieve proper adhesion, make sure the surface to be sprayed is completely clean.

Operating the Turbine

WARNING

Sparking can be expected in the normal operation of the turbine motor. Sparks could ignite fumes from flammable liquid, dust particles and other flammable substances in the spray area, and cause serious injury and property damage. Be sure to follow the precautions below:

- When flammable liquid is sprayed or used for flushing or cleaning equipment, the turbine must be placed at least 20 feet (6.1 m) away from areas where hazardous concentrations of flammable vapors are likely to occur.
- Use additional air hose if necessary to ensure that the turbine is operated in a clean, dry, well ventilated area.
- Never place the turbine inside a spray booth! Use this equipment outdoors or in extremely well ventilated areas.
- Avoid all ignition sources such as static electricity from plastic drop cloths, open flames such as pilot lights, hot objects such as cigarettes, arcs from connecting or disconnecting power cords or turning light switches on and off. Extinguish or remove all sources of ignition.

1. Turn the turbine on a few minutes before you start spraying to allow for warm-up time.

NOTE: When the turbine is not in use for an extended period of time, turn it off. The turbine does not shut off automatically.

2. Be sure the turbine filter is clean before operating. See page 9 to check and clean the filter.

NOTE: To adjust the spray gun pattern, see the turbine gun manual 308–336.

CX–8 Cold Weather Operation

Turbine Spray Model CX-8 has a diaphragm compressor. When this compressors is new, the diaphragm will become stiff in cold weather. If cold enough, the stiff diaphragm will not allow the compressor to start (the unit will hum). If this occurs, follow these steps:

1. Turn the turbine and compressor off.
2. Unplug the turbine from the power source.
3. Loosen the four main filter screws and remove the filter; replace the main filter and pre-filter if they are dirty.
4. Hand spin the cooling fan on the compressor for a few revolutions.
5. Reassemble the turbine.
6. Plug in the turbine and turn compressor on. The compressor should start.

Shutdown

WARNING

The 2 qt spray gun cups and accessory remote pressure pots remain pressurized until pressure is manually relieved. To reduce the risk of serious injury from pressurized fluid or accidental spray from the gun, always relieve pressure in the cup or pressure pot before checking or servicing any part of the spray system; before installing, cleaning or changing fluid nozzles; before loosening or removing the accessory remote pressure pot cover; and whenever you stop spraying.

1. When spraying is finished, release the gun trigger and turn off the air supply to the gun.
2. Turn off the turbine sprayer.

WARNING

The turbine hose outlet may be hot. Carefully check the hose end before removing the hose.

3. *If using a remote pressure pot,* relieve its pressure by following these steps:
   a. Turn off the air supply to the pressure pot.
   b. *2 1/2 Gallon Remote Pot:* Pull the pressure relief valve ring (205) until pressure is completely relieved.
   2 Quart Remote Pot: Turn out the pressure relief knob (113) about one turn. Wait until pressure is completely relieved before removing the cover. Close the knob before using the system again.

   See Fig. 4.

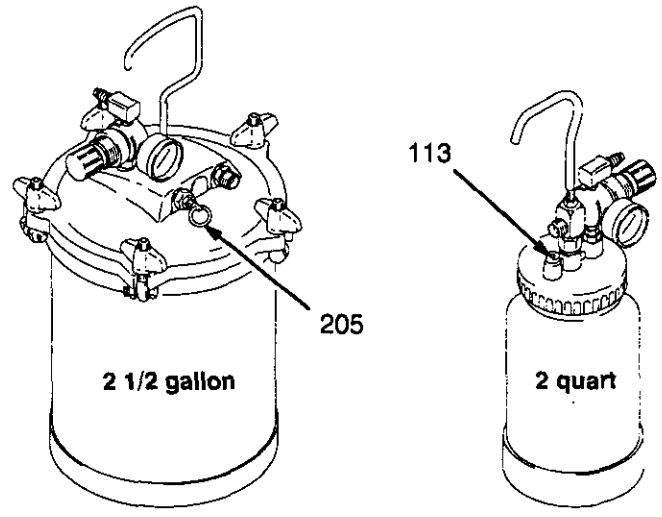


Fig. 4

NOTE: Elevate the spray gun and pull the trigger. This will allow the fluid in the fluid hose to drain back into the remote pressure pot.

4. Clean the spray gun and cup as instructed in the turbine gun manual, 308–336.

Maintenance

Daily

Check the main turbine filter daily for cleanliness.

The turbine systems are lifetime lubricated. The only maintenance required is filter cleaning and replacement.

The turbine main filter and pre-filter must be clean at all times to provide sufficient air flow to cool the motor and atomize the fluid. Check the filters weekly, minimum. Replace the pre-filter as required.

NOTE: To check the filter, turn on the turbine and place a piece of paper against the air intake filter. If the air intake holds the paper in place, the filter is okay.

To clean the main filter:

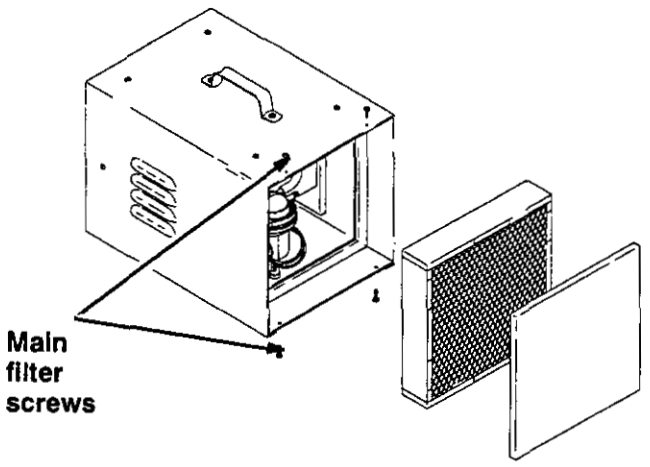
1. Turn off and unplug the turbine.
2. Loosen the four main filter screws. See Fig. 5.
3. Remove the main filter and clean it by following one of the following three methods:
   - Tap the filter gently on a flat surface, dirty side down.
   - Direct compressed air (100 psi [7 bar] maximum) through the filter panel in the opposite direction of the arrows on the side of the filter.
   - Soak the filter for 15 minutes in water and a mild detergent. Rinse the filter until it is clean. Air dry the filter; do not use compressed air.

WARNING

To avoid damage to the turbine and possible electric shock, never install a damp filter in the turbine.

CAUTION

Do not operate the turbine sprayer without the filter installed.



CX–8 Turbine shown 03072

Fig. 5

Weekly

1. Check the hose for cracks, leaks, and holes. Replace, if necessary.

Annually or 600 Hours (whichever comes first)

1. Replace the motor brushes 600 hours after turbine sprayer operation. If the brushes are not replaced, motor failure will occur.

NOTE: It is recommended that an authorized service center perform the motor brush replacement. See the procedure on page 13.

Troubleshooting

PROBLEM	CAUSE	SOLUTION
Remote Container Pressurization	No fluid delivery.	Check for leaks at the container gasket, 2 quart lid, and 2 1/2 gal pot wing nuts.
		Check for air flow from male quick–disconnect at compressor outlet (approx. 1/4 CFM).
		Turn pressure regulator clockwise. Look for pressure on gauge. (If no pressure on gauge, check air line and fittings).
		Check hole in tank lid under regulator or needle valve 2 Qt lid. Clean if necessary.
		Check for obstructions.
		Check if fluid pickup tube is unplugged. Tighten.
		Blow out and clear material hose.
		Check container for material.
(CX–8) Compressor fails to start	Cold weather operation.	See Cold Weather Operation instructions, page 8.
Turbine fails to start	Power supply.	Cycle red rocker switch.
Poor atomization	Dirty filter.	Clean filter.
	Extension cord too long.	Replace with shorter extension cord (do not exceed 100 ft).
	Hose length too long.	Replace with shorter hose. See Accessories for shorter hose and P/N.
Red Rocker Circuit Breaker Switch Trips	Check filter.	Clean filter and replace as necessary.
	Excessive high ambient temperature.	Move turbine to cooler area.
	Excessive brush wear.	Remove turbine wrapper and: . Check for free motor rotation, . Check brush wear, . Replace motor brushes if necessary.
	Excessive current draw.	Return to authorized service center.
Spray gun handle is uncomfortably warm.	Hot and humid weather can generate temperatures that make gun handle uncomfortable.	Extra hose is recommended in warmer environments.
		Install handle insulator (provided with gun).

Repair

WARNING

Turn off turbine and unplug power for the following procedures.

Turbine Switch Replacement (Red Rocker Circuit Breaker)

1. To remove the turbine switch (3), wedge a large flat blade screwdriver between the top of the switch and the turbine face plate. See Fig. 6.
2. Push down firmly on the switch. Pry the switch out far enough so the two top switch locking tabs are visible.
3. While maintaining outward pressure on the switch, push down on the two locking tabs with a small flat blade screwdriver until they release. The switch will pop out.
4. Disconnect the two wires and remove the switch.
5. Reinstall by connecting wires to the new switch. Snap the switch into place.

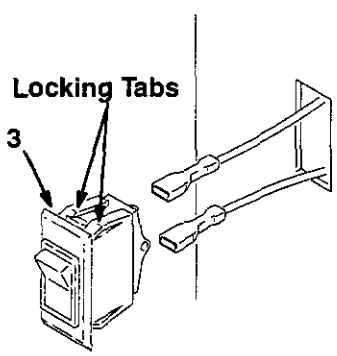


Fig. 6

CX–8 Compressor Replacement

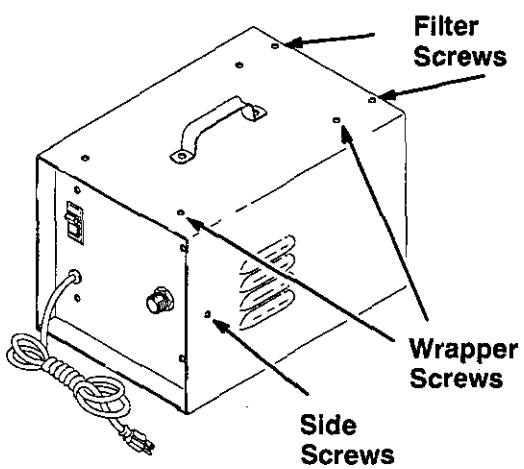
1. Remove the four main filter stop screws and remove the main filter. (Clean or replace filter as necessary).
2. Remove the air hose from the "out" side of the compressor.
3. Locate and remove the three compressor hold–down screws.
4. Remove the ground screw. Clip the lead wires and remove the compressor.
5. Rewire and install the new compressor. Apply removable Loc–Tite on the compressor screws and tighten the screws. Do not overtighten the rubber bumpers.
6. Re–install the hose on the "out" side of the compressor.
7. Replace the main filter.

Wrapper Removal

Remove the cabinet wrapper by following these steps.

1. Remove the four filter screws. Remove the main filter. Clean and replace the filter if necessary.
2. Remove the four remaining top wrapper screws. Do not remove handle screws.
3. Remove one screw from each side of the wrapper.
4. Remove the four remaining bottom wrapper screws. Do not remove the rubber feet.
5. Gently pry loose and remove the wrapper from the cabinet.

NOTE: The wrapper is sealed with caulk.



CX–9 shown

Fig. 7

Power Cord Replacement

Remove the cabinet wrapper by following the Wrapper Removal procedure.

1. The power cord may now be replaced.

CX–8 Compressor Toggle Switch Replacement

Remove the cabinet wrapper by following the Wrapper Removal procedure.

1. The compressor toggle switch (CX–8) may now be replaced.

Turbine/Motor Replacement

The new motor/turbine kit is supplied with a brass fitting, bushing, clamp, rubber bottom spacer, and a new foam fan seal gasket.

Repair

NOTE: The wrapper is sealed with caulk.

1. The motor may now be replaced.

2. Do not overtighten the three rubber step bushings. Tighten the bushings only until the motor is held firmly in place.

3. Apply removable Loc–tite to the three fan seal nuts and the ground screw nut.

4. Install the foam fan seal gasket.

5. Be sure to install the ground wire before installing motor.

6. Snap on the switch connector and crimp on the butt connector. Before installing the wrapper, seal the wrapper by applying a fine bead of caulk over the areas previously caulked.

7. Be sure the main filter is clean or replaced before installing wrapper.

8. Re–install the wrapper

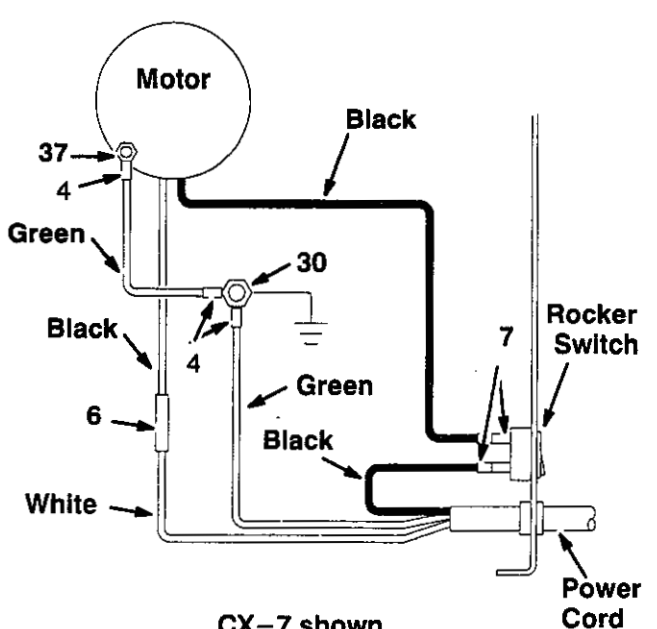


Fig. 8

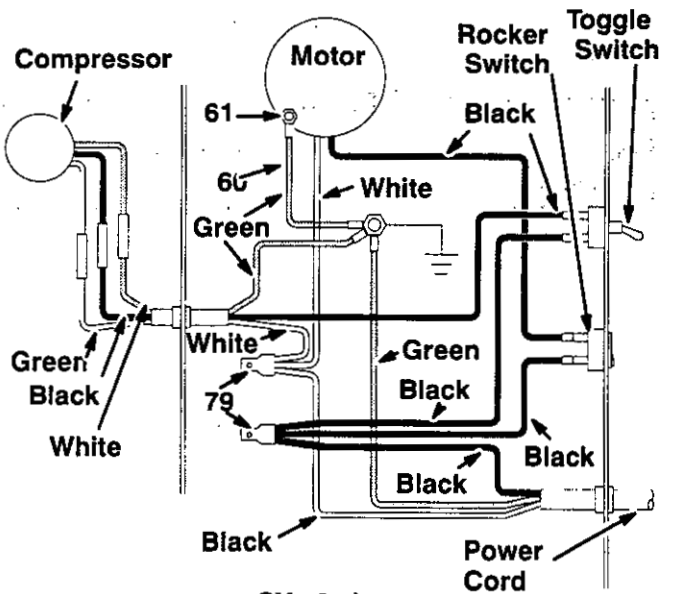


Fig. 9

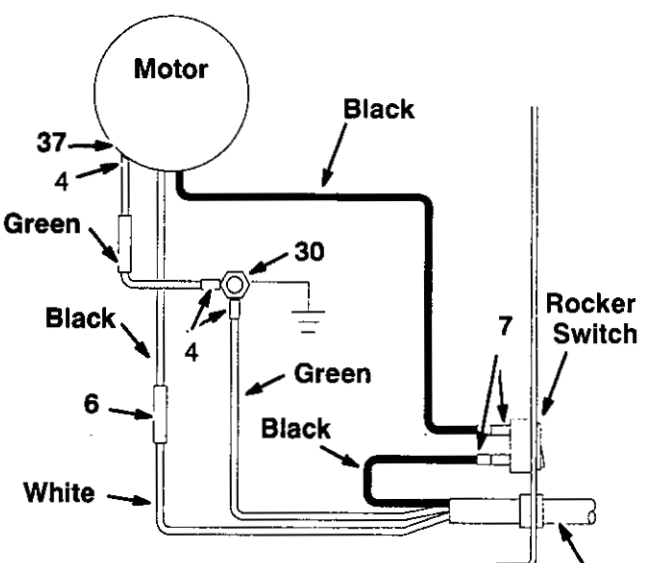


Fig. 10

Motor Brush Replacement

NOTE: It is recommended that this procedure be performed by an authorized service center.

1. Follow the steps for removing the motor in the Motor Replacement procedure.

2. Remove the metal shroud on the 7.2" diameter motor (1 sheet metal screw).

3. Remove the two retaining clips and plastic fan cover on 5.7" diameter motor.

4. Remove the brushes. Check the commutator for excessive wear.

5. Reassemble the new motor brushes using reverse order. Keep lead wires from all rotating parts and the motor frame.

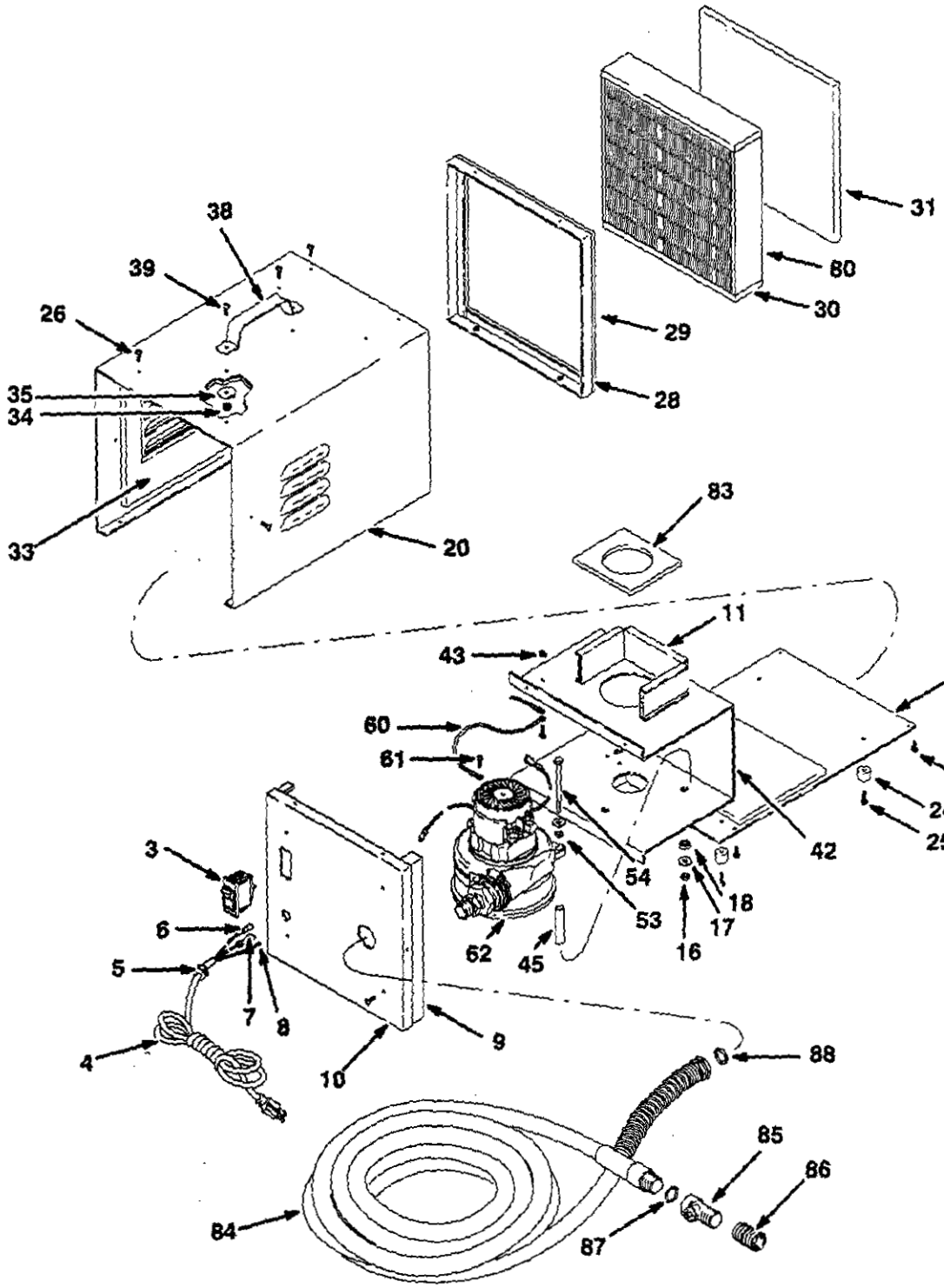
CAUTION

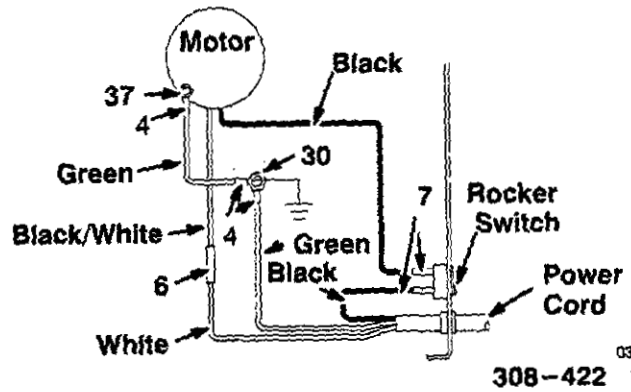
Do not run the motor with the air inlet or outlet sealed off.

6. Reinstall the motor in reverse order.

7. After running the motor for 30–45 minutes at full–rated voltage, the motor will return to full performance.

Parts for CX-7



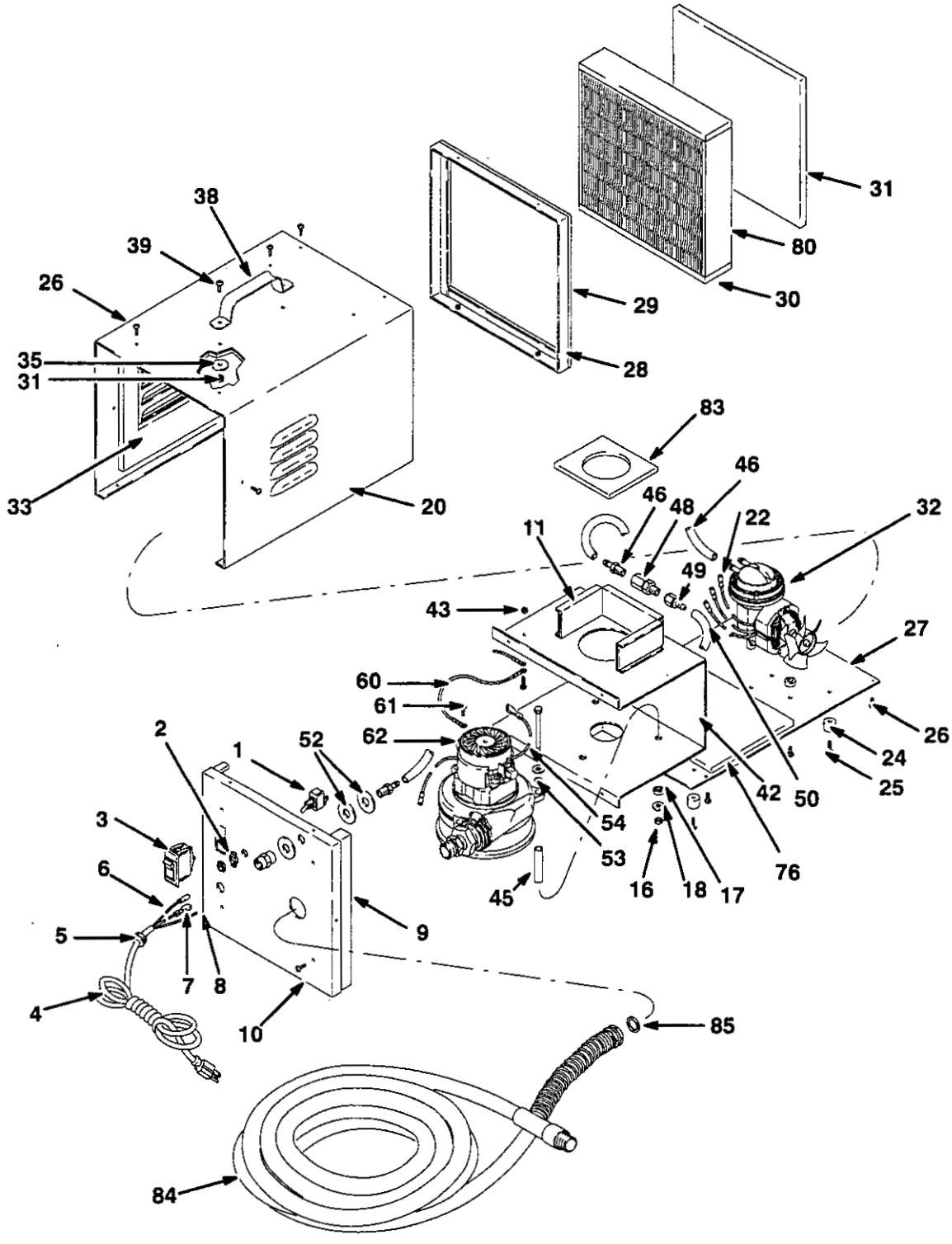


Parts for CX-7

Ref No.	Part No.	Description	Qty
3	M70656	SWITCH, rocker 8 amp	1
4	M70601	CORD, power	1
5	106013	FITTING, strain relief	1
6	M70759	CONNECTOR, red butt	1
7	112605	TERMINAL, ground ring	1
8	M70760	SWITCH, connector	1
9	M71153	FOAM, strip	2
10	M71501	PLATE, face	1
11	M70753	FOAM, die cut 109	2
13	M71179	TIE, wire (not shown)	1
16	M70761	BUSHING, stepped	3
17	M70773	WASHER, 1/4	6
18	M70772	NUT, 1/4–20	3
20	M70856	WRAPPER	1
24	M70763	BUMPER	4
25	M70775	SCREW, 832x5/8	4
26	M70774	SCREW, black oxide 832x1/2	16
27	M70858	PLATE, bottom	1
28	M70859	FILTER, stop	1
29	M70757	FILTER, foam	3
30	M70609	FILTER, main	1
31	M70607	FILTER, pre	1
33	M71384	FOAM, die cut	2
34	M70872	NUT, cabinet handle	2
35	M70874	WASHER, 3/16x1	2
36	M70933	DECAL (not shown)	1
37	M70783	LABEL, warning (not shown)	1
38	M70870	HANDLE,	1
39	M70873	SCREW, cabinet handle	2
40	M70782	LABEL, caution (not shown)	1
41	M70785	LABEL, USA (not shown)	1
42	M70959	MOUNT, motor	1
43	100284	NUT, hex	2
45	M70779	SPACER, 2.312	3
53	M70764	O–RING, ring	3
54	M70770	BOLT 1/–20x L/2	3
56	M71138	DECAL, S/N set (not shown)	1
60	M71184	WIRE, green/yellow	1
61	M71185	SCREW, self–tapping	1
62	M70989*	MOTOR Kit, CX–7/120V	1
66	M70756	DOUGHNUT, 6"	1
71	070514	ADHESIVE	
73	M71385	FOAM, die cut	2
75	728677	DECAL, city of LA (not shown)	1
80	M71188	STRIPS, Velcro	.5
82	186620	LABEL, ground (not shown)	1
83	M71398	GASKET, fan seal	1
84	M71519	HOSE, 20 ft	1
85	M70397	VALVE, air	1
86	M70402	DISCONNECT, quick	1
87	M71412	O–RING, valve	1
88	M71246	O–RING, hose	1

• *Motor Brush Kit M70590 is also available. Purchase separately.*

Parts for CX–8



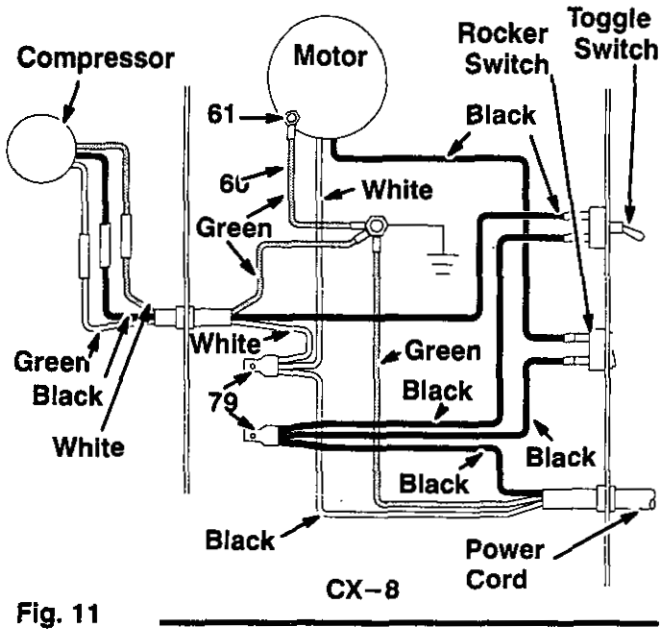

Compressor
Motor
Rocker Switch
Toggle Switch
61
Black
60
White
Green
White
Green
Black
79
Green
Black
White
Black
Black
Black
Power Cord
CX-8

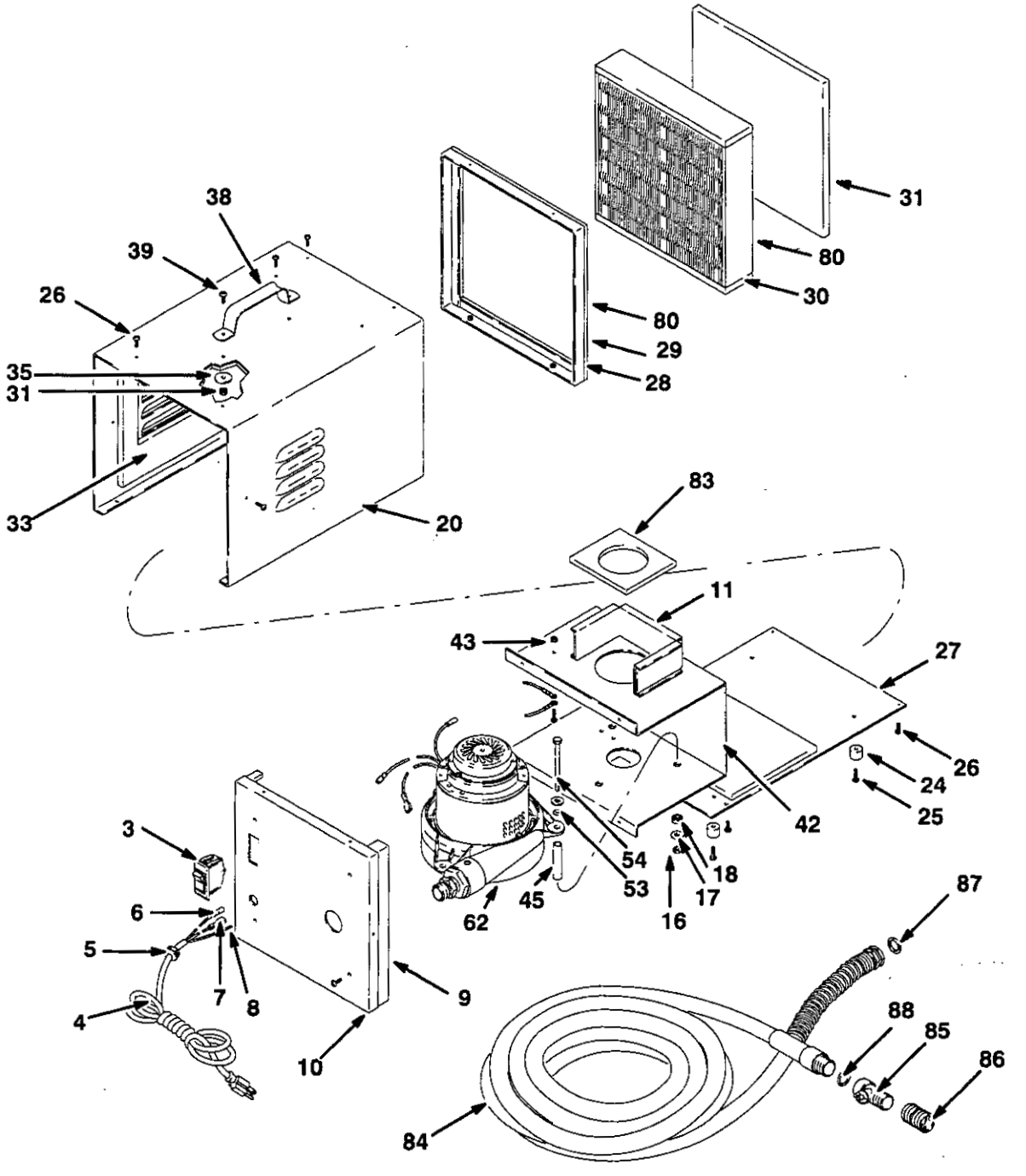
Fig. 11

Parts for CX–8

Ref No.	Part No.	Description	Qty
1	M70603	SWITCH, toggle	1
2	M70811	SWITCH, plate	1
3	M70656	SWITCH, rocker 8 amp	1
4	M70601	CORD, power	1
5	106013	FITTING, strain relief	1
6	M70759	CONNECTOR, red butt	1
7	112605	TERMINAL, ground ring	1
8	M70760	SWITCH, connector	1
9	M71153	FOAM, strip	2
10	M71501	PLATE, face	1
11	M70753	FOAM, die cut 109	2
12	M71143	HARNESS, 14 in wire (not shown)	1
16	M70761	BUSHING, stepped	3
17	M70773	WASHER, 1/4	6
18	M70772	NUT, 1/4–20	3
20	M70856	WRAPPER	1
22	M71180	WIRE, white	1
24	M70763	BUMPER	4
25	M70775	SCREW, 8–32x5/8	4
26	M70774	SCREW, black oxide 8–32x1/2	16
27	M70858	PLATE, bottom	1
28	M70859	FILTER, stop	1
29	M70757	FILTER, foam	3
30	M70609	FILTER, main	1
31	M70607	FILTER, pre	1
32	M70963	COMPRESSOR	1
33	M71384	FOAM, die cut	2
34	M70872	NUT, cabinet handle	2
35	M70874	WASHER, 3/16x1	2
36	M70933	DECAL (not shown)	1
37	M70783	LABEL, warning (not shown)	1
38	M70870	HANDLE,	1
39	M70873	SCREW, cabinet handle	2
40	M70782	LABEL, caution (not shown)	1
41	M70785	LABEL, USA (not shown)	1
42	M70959	MOUNT, motor	1
43	100284	NUT, hex	2
45	M70779	SPACER, 2.312	3
46	M71182	HOSE, 6 in compressor	1
47	M70809	FITTING barbed hose	1
48	M70736	VALVE, relief	1
49	M70804	FITTING, barbed	1
50	M71192	HOSE, 8 in	1
52	M71136	WASHER	3
53	M70764	O–RING, ring	3
54	M70770	BOLT 1/–20x L/2	3
55	M70814	DECAL, compressor (not shown)	1
56	M71139	DECAL, S/N set (not shown)	1
58	M70679	COUPLING, parker #207P–4	1
60	M71184	WIRE, green/yellow	1
61	M71185	SCREW, self–tapping	1
62	M71514	*MOTOR Kit	1
75	728677	DECAL, city of LA (not shown)	1
76	M71186	FOAM, die cut (not shown)	1
78	M71187	WIRE, black (not shown)	1
79	M70810	CONNECTOR, closed (not shown)	1
80	M71188	STRIPS, Velcro	.5
82	186620	LABEL, ground (not shown)	1
83	M71398	GASKET, fan seal	1
84	M71519	HOSE, 20 ft	1
85	M71246	O–RING, valve	1

** Motor Brush Kit M70590 is also available. Purchase separately.*

Parts for CX–9



Parts for CX–9

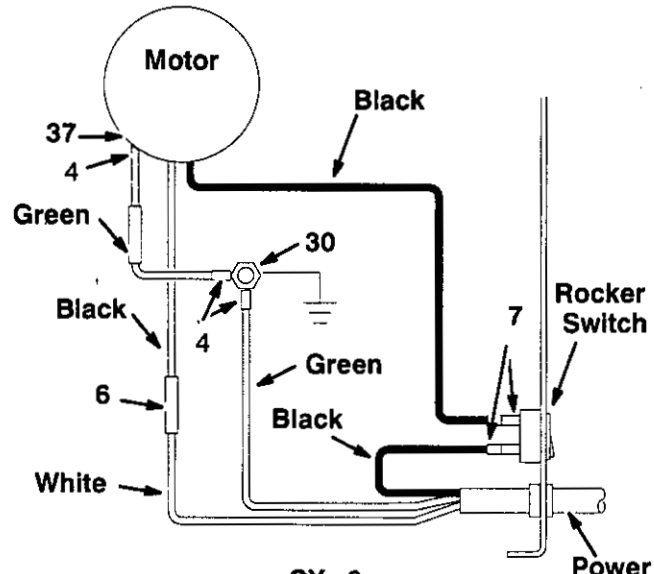


Fig. 12

Parts for CX–9

Ref No.	Part No.	Description	Qty
3	M70657	SWITCH, rocker 12 amp	1
4	M70601	CORD, power	1
5	106013	FITTING, strain relief	1
6	M70759	CONNECTOR, red butt	1
7	112605	TERMINAL RING, ground	6
8	M70760	SWITCH, connector	1
9	M71153	STRIP, foam	2
10	M71502	PLATE, face	1
11	M70753	FOAM, die cut	2
13	M71179	WIRE, tie (not shown)	1
15	M71190	CONNECTOR, butt (not shown)	1
16	M70761	BUSHING, stepped	3
17	M70773	WASHER, 1/4	6
18	M70772	NUT, 1/–20	3
20	M70856	WRAPPER	1
24	M70763	BUMPER	4
25	M70775	SCREW, 8322x5/8	4
26	M70774	SCREW, black oxide 832x1/2	12
27	M70858	PLATE, bottom	1
28	M70859	FILTER, stop	1
29	M70757	FOAM. filter	3
30	M70609	FILTER, main	1
31	M70607	FILTER, pre	1
33	M71384	FOAM, die cut	2
34	M70872	NUT, cabinet handle	2
35	M70874	WASHER, 3/16x1	2
36	M70933	DECAL (not shown)	1
37	M70783	LABEL, warning (not shown)	1
38	M70870	HANDLE	1
39	M70873	SCREW, cabinet handle	2
40	M70782	LABEL, caution (not shown)	1
41	M70785	LABEL, USA (not shown)	1
42	M70864	MOUNT, 2 stage	1
43	100284	NUT, hex	2
44	M70789	SCREW, 1/4 x 20 x 3/4	4
45	M70778	SPACER, 1.812	3
53	M70764	RING, o–ring	3
54	M70770	BOLT, 1/4–20x3 L/2	3
56	M71194	DECAL, S/N Set (not shown)	1
62	M71515*	*MOTOR, Kit	1

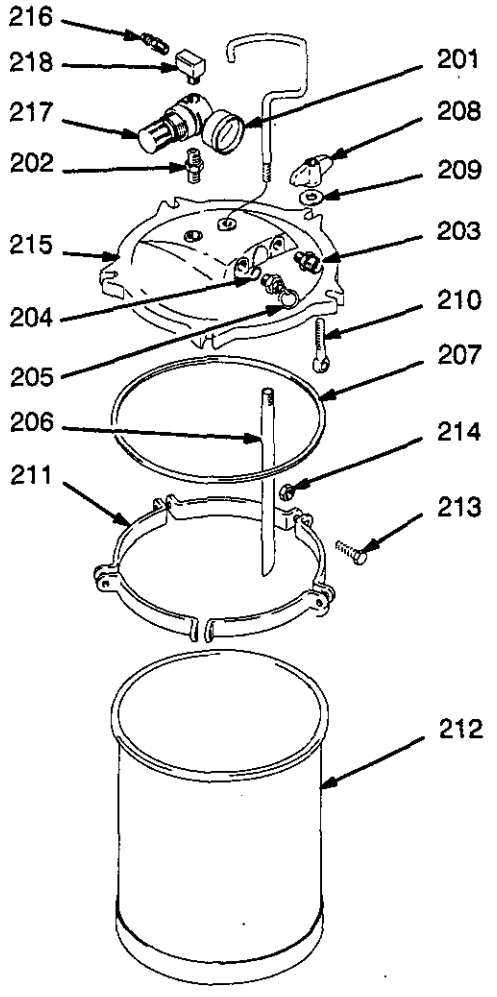
Ref No.	Part No.	Description	Qty
75	728677	DECAL, city of LA (not shown)	1
82	186620	LABEL, ground (not shown)	1
83	M71362	GASKET, fan seal	1
84	M71519	HOSE, 20 ft	1
85	M70397	VALVE, air	1
86	M70402	DISCONNECT, quick	1
87	M71412	O–RING, valve	1
88	M71246	O–RING, hose	1

** Motor Brush Kit M70590 is also available. Purchase separately.*

Accessories

2-1/2 Gallon Pressure Pot M70604

50 psi (3.5 bar) Maximum Inlet Air Pressure
2-1/2 gallon (9.5 liter) capacity, galvanized steel tank. Includes an air pressure regulator and gauge and a pressure relief valve.



02861

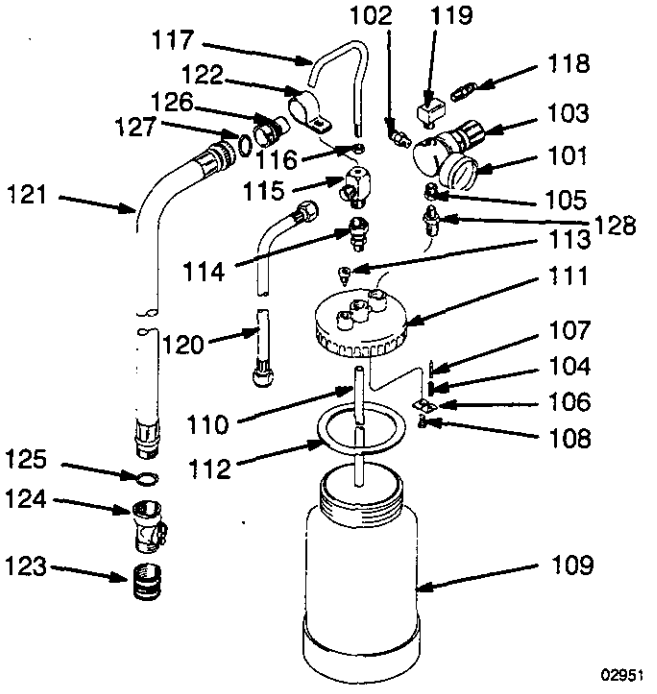
Ref. No.	Part No.	Description	Qty.
201	M70670	PRESSURE GAUGE	1
202	M70674	HEX NIPPLE, 1/4 in.	1
203	M70687	COUPLING	1
204	M70676	O-RING	1
205	M70686	PRESSURE RELIEF VALVE RING	1
206	M70685	FLUID TUBE	1
207	M70616	GASKET, standard; EPDM	1
	M70617	GASKET, solvent resistant; Thiokal (optional–must order separately)	1
208	M70678	WING NUT	5
209	M70677	WASHER	5
210	M70680	EYE BOLT	5
211	M70684	BAND	5
212	M70683	POT, 2-1/2 gallon (9.5 liter), galvanized steel	1
213	M70681	SCREW, band	5
214	M70682	NUT, band	5
215	M70688	COVER	1
216	M70675	QUICK DISCONNECT, male	1
217	M70671	PRESSURE REGULATOR	1
218	M70805	ELBOW, 90°	1

2 Quart Pressure Pot M70962

50 psi (3.5 bar) Maximum Inlet Air Pressure
2 quart (1.94 liter) capacity, aluminum cup. Includes an air pressure regulator and gauge, pressure relief valve, and rigid hook handle.

WARNING

Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in the turbine spray system, which contains aluminum and/or galvanized-coated parts. Such use could result in a serious chemical reaction, with the possibility of explosion, which could cause death, serious injury, and/or substantial property damage.



02951

Ref. No.	Part No.	Description	Qty.
101	M70670	PRESSURE GAUGE	1
102	M70727	SAFETY VALVE	1
103	M70671	PRESSURE REGULATOR	1
104	M70731	SPRING	1
105	M70895	REDUCER	1
106	M70733	BRACKET	1
107	M70734	VALVE	1
108	M70735	SCREW	1
109	M70730	POT, 2 quart (1.94 liter), aluminum	1
110	M70729	FLUID TUBE	1
111	M70728	COVER	1
112	M70628	GASKET, polyethylene	1
113	M70726	PRESSURE RELIEF KNOB	1
114	M70725	FITTING	1
115	M70724	FLUID OUTLET	1
116	M70723	NUT	1
117	M70722	HANDLE	1

continued on next page

Accessories

118	M70675	PLUG, male, quick disconnect	1
119	M70805	ELBOW, 90°	1
120	M71491	HOSE, fluid; 5 ft. (1.5 m) long; 1/4 in. (6.35 mm) ID	1
121	M71470	HOSE, air; 4.5 ft. (1.4 m) long	1
122	M70854	HOSE CLAMP	1
123	M70402	QUICK DISCONNECT, female	1
124	M70397	AIR CONTROL VALVE	1
125	M71412	O-RING, air valve	1
126	M70399	QUICK DISCONNECT, male	1
127	M71246	O–RING, hose	1
128	M72842	FITTING, air pressure stem	1

NOTE: See selection charts in the gun turbine manual, 308–336, to order fluid sets.

Lubricant 111–265

One 4 oz. (113 gram) tube sanitary (non-silicone) lubricant for fluid seals and wear areas.

#4 Ford Viscosity Cup M70702

To measure viscosity of fluid.

1 Quart Cup Lid M70610

Fits on cup part no. M70423 for air tight storage of fluid.

1 Quart Cup and Lid Assembly M70425

1 quart under-cup with air tight lid.

1 Quart Cup Gaskets M70427

5 pack of polyethylene gaskets for use with 1 quart under-cup.

3/4 Liter Cup and Lid Assembly M71047

3/4 liter over-cup with lid.

3/4 Liter Cup Gaskets M71027

5 pack of polyethylene gaskets for use with 3/4 liter over-cup.

Cup Check Valve M71007

To help prevent the cup from depressurizing after the air is shut off.

Fluid Strainer M70464

Install on the end of the cup or pressure pot fluid tube to strain the fluid and help eliminate surface blemishes and plugged tips. 100 mesh screen.

Blow Gun M70703

For dusting and drying. With quick disconnect.

Contractor User Kit M70704

Used with CX-7, CX-8, and CX-9

Used for fine finish materials and heavier bodied materials (latex).
Includes:

Part No.	Description
M70562	1.0 mm Fluid Set
M70582	2.0 mm Fluid Set
M70425	1 Quart Under-cup Gaskets
M70464	Fluid Strainer
M70395	Upper Air Pressure Hose
–	Parts Box with Compartments

Automotive User Kit M70705

For use with automotive finishes.

Used with CX-7, CX-8, and CX-9
Includes:

Part No.	Description
M70559	1.0/0.05 mm Fluid Set
M70647	1.2/0.7 mm Fluid Set
M70425	1 Quart Under-cup Gaskets
M70464	Fluid Strainer
M70395	Upper Air Pressure Hose
–	Parts Box with Compartments

Trail Around Dolly M70700

Lightweight and mobile platform with wheels, for use with smaller units.

Includes:

Part No.	Description
M70852	Swivel Caster
M70853	Rigid Caster
M71434	Dolly Plate
M70889	3/4 Pop Rivet
100–086	Plain #10 Washer

Air Control Valve M70398

Includes:

Part No.	Description
M71549	Air Valve
M71412	O–ring

CX–7 Motor Assembly Kit M71514

Includes:

Part No	Description
M71133	Motor
M70766	Hex Bsg. 1.1709
M70984	Brass Nipple
M70756	6 In. doughnut
M70758	Ring connector
M70760	Switch connector
M70786	Clamp
M71398	Motor fan seal gasket
M70759	Butt connector

continued on next page

Accessories

CX–8 Motor Assembly Kit M71514

Part No	Description
M71133	Motor
M70766	Hex Bsg. 1.1709
M70984	Brass Nipple
M70756	6 In. doughnut
M70758	Ring connector
M70760	Switch connector
M70786	Clamp
M71398	Motor fan seal gasket
M70759	Butt connector

CX–9 Motor Assembly Kit M71515

Part No	Description
M71131	Motor
M70766	Hex Bsg. 1.1709
M70984	Brass Nipple
M70756	6 In. doughnut
M70758	Ring connector
M70760	Switch connector
M70786	Clamp
M71398	Motor fan seal gasket
M70759	Butt connector

Motor Brush Kit M70590
Includes:

Part No	Description
M71546	2 Motor Brushes

CX–8 Compressor Kit M71535

45 Degree Elbow M70593

Prefilter 12–Pak M70609

CX–9 Y Fitting Kit M70611

5 Pak Tank Liner M70695

2 Qt. Gasket, 5 Pak M7425

Main Filter with Velcro Strips M71558

CX–8 Clear Air Hose Extension M71404
20 ft id compressor air hose, 1/4 " air hose

3/8 in. id Paint Fluid Hose

25 ft	M71481
15 ft	M71482
30 ft	M71484
50 ft	M71485
40 ft	M71486

Notes

Notes

The Graco Warranty and Disclaimers

WARRANTY

Graco warrants all equipment manufactured by it and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. As purchaser's sole remedy for breach of this warranty, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment proven defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for, any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility with Graco equipment of structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claim. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor and transportation.

DISCLAIMERS AND LIMITATIONS

The terms of this warranty constitute purchaser's sole and exclusive remedy and are in lieu of any other warranties (express or implied), **including warranty of merchantability or warranty of fitness for a particular purpose**, and of any non-contractual liabilities, including product liabilities, based on negligence or strict liability. Every form of liability for direct, special or consequential damages or loss is expressly excluded and denied. In no case shall Graco's liability exceed the amount of the purchase price. Any action for breach of warranty must be brought within two (2) years of the date of sale.

EQUIPMENT NOT COVERED BY GRACO WARRANTY

Graco makes no warranty, and disclaims all implied **warranties of merchantability and fitness for a particular purpose**, with respect to accessories, equipment, materials, or components sold but not manufactured by Graco. These items sold, but not manufactured by Graco (such as electric motor, switches, hose, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

Graco Phone Numbers

TO PLACE AN ORDER, contact your Graco distributor, or call this number to identify the distributor closest to you: **1-800-328-0211 Toll Free**

FOR TECHNICAL ASSISTANCE, service repair information or assistance regarding the application of Graco equipment: **1-800-543-0339 Toll Free**

Sales Offices: Atlanta, Chicago, Dallas, Detroit, Los Angeles, Mt. Arlington (N.J.)
Foreign Offices: Canada; England; Korea; Switzerland; France; Germany; Hong Kong; Japan

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441

PRINTED IN U.S.A. 308-338 1/94