

RTX 1500 Electric Texture Sprayer

310645E

- For Water-Based Materials Only -

(Consult your Material Supplier for Warnings and Application Requirements)

Models: Page 3

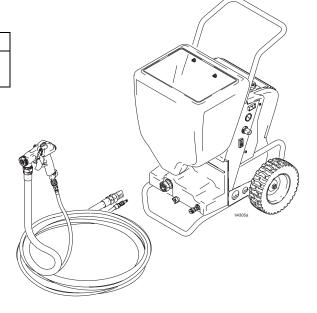
Maximum Working Air Pressure: 45 psi (3.1 bar)
Maximum Working Fluid Pressure: 100 psi (6.9 bar)



Read all warnings and instructions.

CAUTION

Use RTX 1500 non-bleeder texture gun (model 248091) only. All other guns will damage sprayer.



PROVEN QUALITY. LEADING TECHNOLOGY.



Graco Inc. is registered to I.S. EN ISO 9001



Notes

Models

	Manual					
Model	Electric Requirements	Country	Operation	287328*	Gun	Languages
248201	120V, 60 Hz, 15 A	N. America	310624	310694	310616	English
248370 / 248315	230V. 50 Hz, 10 A	Europe	310624		310616	French
248370	230V. 50 Hz, 10 A	Europe	310624			Dutch
248370	230V. 50 Hz, 10 A	Europe	310625		310616	Spanish
248370 / 248315	230V. 50 Hz, 10 A	Europe	310625			Italian
248370	230V. 50 Hz, 10 A	Europe	310625			Portuguese
248370 / 248315	230V. 50 Hz, 10 A	Europe	310625			German
248315	230V. 50 Hz, 10 A	Europe	310697			Swiss
248315	230V. 50 Hz, 10 A	Europe	310697			Danish
248370	230V. 50 Hz, 10 A	Europe	310697			Norwegian
248370	230V. 50 Hz, 10 A	Europe	310697			Swedish
248370	230V. 50 Hz, 10 A	Europe	310698			Polish
248370	230V. 50 Hz, 10 A	Europe	310698			Russian
248370	230V. 50 Hz, 10 A	Europe	310698			Greek
248315	230V. 50 Hz, 10 A	Asia	310699			Chinese
248315	230V. 50 Hz, 10 A	Asia	310699			Japanese
248315	230V. 50 Hz, 10 A	Asia	310699			Korean
248315	230V. 50 Hz, 10 A	Australia	310699	310694	310616	English

^{*}Auxiliary Air Hookup Kit

RELATED MANUALS

Model	Country	Manual	Languages
ALL	ALL	310645	English

The following are general Warnings related to the safe setup, use, maintenance and repair of this equipment. Additional, more specific warnings may be found throughout the text of this manual where applicable.

Warning



WARNING

This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.

Caution

CAUTION

Alerts you to the possibility of damage or destruction of equipment if you do not follow the instructions.



Warnings



Fire and Explosion Hazard

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:



- Use equipment only in well ventilated area.
- Keep work area free of debris, including solvent, rags, and gasoline.
- Ground equipment in the work area. See Grounding instructions.
- If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.



Equipment Misuse Hazard

Equipment misuse can cause death or serious injury.

- Do not exceed maximum working pressure or temperature rating of lowest rated system component. See Technical Data, in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not alter or modify this equipment.
- Use the equipment only for its intended purpose. Call your Graco distributor for information.
- For professional use only.
- Route hoses away from traffic areas, sharp edges, moving parts and hot surfaces.
- Do not use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



Electric Shock Hazard

Improper grounding, setup, or usage of the system can cause electric shock.

- Turn off and disconnect power cord before servicing equipment.
- Use only grounded electrical outlets.
- Use only 3-wire extension cords.
- Ensure ground prongs are intact on sprayer and extension cords.

WARNINGS Λ **Pressurized Equipment Hazard** Compressed air can inject in skin. Air tubing rupture can cause injury if disconnected while under pressure. To reduce risk of injury: • Never exceed maximum working pressure of any attachment. · Do not direct airstream at body. • Follow Pressure Relief Procedure, page 8 whenever you are instructed to relieve pressure, stop spraying, service equipment, install or clean spray nozzle or disconnect or connect hose. **Cleaning Solvent Hazard with Plastic Parts** Use only compatible water-based solvents to clean plastic structural or pressure-containing parts. Many solvents can degrade plastic parts to the point where they could fail. Such failure could cause serious injury or property damage. See **Technical Data** on page 35 of this instruction manual and in all other equipment manuals. Read fluid and solvent manufacturer's warnings. **Moving Parts Hazard** Moving parts can pinch or amputate fingers and other body parts. Keep clear of moving parts. Do not operate equipment with protective guards or covers removed. Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in this manual. Disconnect power or air supply. **Personal Protective Equipment** Wear appropriate protective equipment when operating, servicing or when in the operating area of this equipment to help protect yourself from serious injury, including eye injury, inhalation of toxic fumes, burns and hearing loss. This equipment includes, but is not limited to: · protective eye wear clothing and respirator as recommended by fluid and solvent manufacturer hearing protection

CAUTION

Water or material remaining in unit when temperatures are below freezing can damage pump and/or delay startup.

To insure water and material are completely drained out of unit:

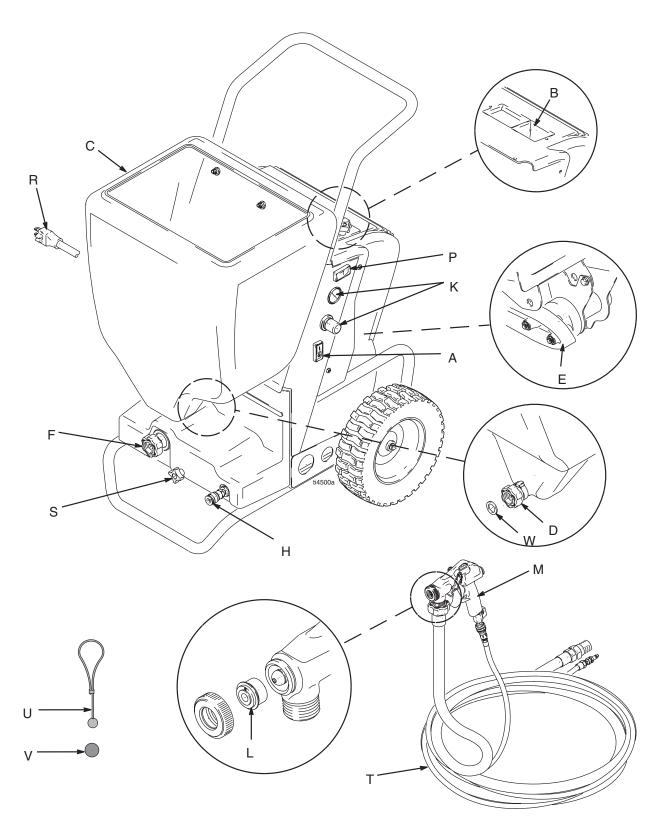
• remove hose from material outlet,

· gloves

• tip sprayer forward 45° to allow material (water) to flow out of pump inlet.

Before adding material or starting unit in cold weather, circulate warm water through pump.

Component Identification



Component Identification

ITEM	COMPONENT
А	Main Power Switch
В	Nozzle Storage
С	Hopper
D	Hopper Connect/Disconnect
E	Graco RotoFlex™ HD Pump
F	Material Outlet
Н	Air Outlet
К	Fluid Flow Regulator and Pressure Gauge
L	Gun Nozzle (5 sizes)
М	Gun (see manual 310616)*
Р	Prime Switch
R	Power Cord
S	Pump Access Screw
Т	Hose - 25-ft.
U	Material Thickness Gauge
V	Cleaning Ball
W	Spare Hose Gaskets

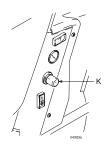
Preparation

Pressure Relief Procedure

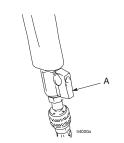
Turn Main Power Switch
 (A) OFF.



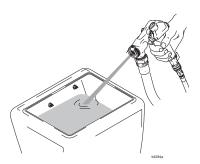
2 Turn fluid flow regulator (K) all the way down to reduce pressure.



3 Open gun air valve (aa).



4 Trigger gun, spraying material back into hopper (C).

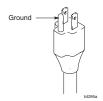


Grounding and Electric Requirements

The sprayer must be grounded. Grounding reduces the risk of electrical shock by providing an escape wire for the electrical current.



 The sprayer cord includes a grounding wire with an appropriate grounding prong.



 The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.



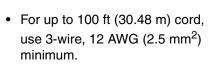
 Do not modify plug! If it will not fit in outlet, have grounded outlet installed by a qualified electrician.

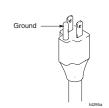


Sprayer model electric requirements are provided on page 3.

Extension Cords

 Only use an extension cord with an undamaged 3-prong plug.





Auxiliary Air Compressor

 Use Auxiliary Air Hookup Kit 287328 when additional atomization air is necessary.

CAUTION

Attaching auxiliary air to sprayer without using the Auxiliary Air Hookup Kit will damage sprayer.

Generators

7500 W (7.5 KW) minimum.

Tips for Using Generators

- Before running sprayer, make sure it is at room temperature. This will reduce startup current.
- Run generator at full throttle.

Hose Lengths

The system comes with a twin line hose set consisting of a 1 in. ID x 25 ft (25 mm x 7.6 m) material hose and a 3/8 in. ID air hose. Additional hose sections can be added. Total final length of hose used should not exceed 100 feet in length.

CAUTION

Sprayer air hose fitting can get hot! Allow sprayer to cool down 5 minutes before removing air hose.

Removing and Replacing Hopper, Front and Back Covers

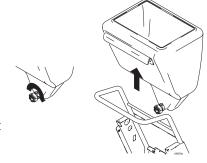
Before performing any service on sprayer always:

- Read all warnings, page 4.
- Read operating instructions manual, page 3.
- Relieve Pressure, page 8.
- Turn main power switch (A) OFF.
- Unplug sprayer from outlet.
- Remove air and material hoses.
- Clean sprayer. See Operation Manual 310624 or 310625.

Hopper

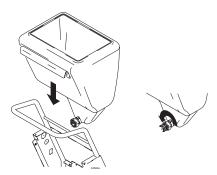
Removing Hopper

- To remove hopper loosen fitting.
 Fittings are hand-tightened and should not require tools to loosen.
- 2 Lift hopper straight up, off frame.



Replacing Hopper

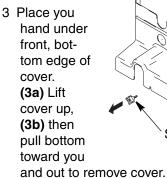
- To replace hopper, position drain over fitting as far as it will go, making sure identification label faces out.
- 2 Hand tighten fitting.

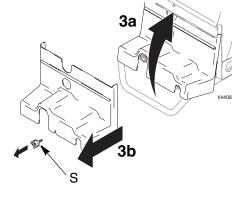


Front Cover

Removing Cover

- 1 Remove hopper.
- 2 Unscrew and remove knob (S).

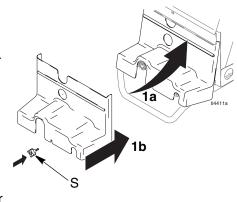




Replacing Cover

1 Place your hand under front, bottom edge of cover. (1a) Position top edge of cover under top metal lip on sprayer frame.





of cover has room to clear front metal frame and slide cover into place. To position cover correctly, it will go in at an angle.

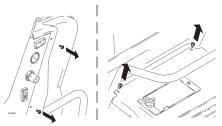
- 2 Replace knob (S). Hand tighten fitting.
- 3 Replace hopper.

Back Cover

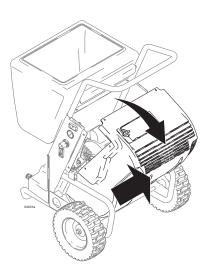
To access the motor and all other components, it is necessary to remove the hopper, front and back covers.

Removing Cover

1 Completely remove 6 screws (2 on top and each side) from cover.

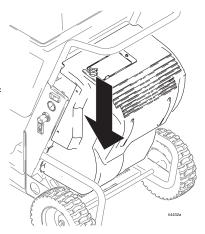


2 Lift cover up and then tilt it back and off sprayer frame.

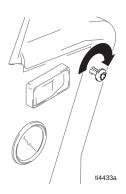


Replacing Cover

1 To reposition cover on sprayer frame, tip the cover back, toward you and slide it down, into place in the base of the frame. Then push the top back into place. Align screw holes in side and top of cover with holes in frame.



2 Replace and tighten screws.



RotoFlex™ HD Pump

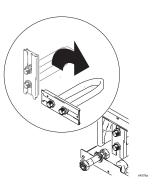
Use RotoFlex HD Pump Replacement Kit 287314.



IMPORTANT

• After replacing RotoFlex HD Pump hose, always follow Hose Break-In Procedure, page 14, before operating sprayer.

4 Rotate pump assembly sideways. Pull entire assembly out of front of sprayer frame.



Disassembly

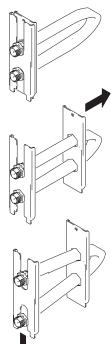
First read and follow instructions in the Before performing any service on sprayer section, page 10.

Then remove hopper and front cover, page 10.

1 Loosen and remove hose extension.



5 Separate the inner and outer hose brackets.



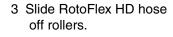
2 Loosen and remove knob.

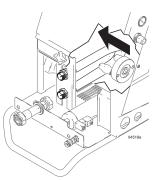


6 Slide hose ends out of slots in outer hose bracket.

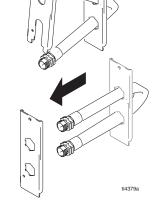


• Slide out of short slot first.





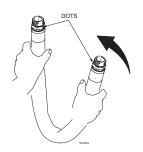
7 Pull hose out of inner hose bracket.

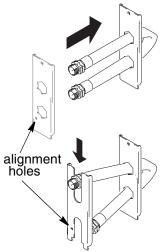


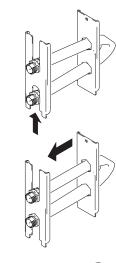
8 Discard pump hose.

Reassembly

- 1 Bend and kink new pump hose from kit in the middle as shown, making sure dots on hose fittings face each other.
- 2 Insert hose ends through holes in inner hose bracket, keeping dots on fittings facing each other and kinked portion of hose horizontal to the underside of bracket.
- 3 Slide hose ends into outer hose bracket, making sure dots on fittings face each other and alignment holes are together.
 - Slide into long slot first.

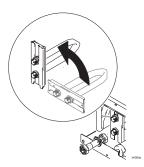




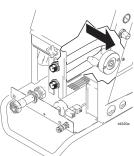




- 4 Slide plates together, inserting inner plate in outer plate, matching alignment holes.
- 5 Replace bracket assembly in housing making sure the mounting screw hole, located in the top center of the inner plate, faces up.



6 Slide pump hose around rollers. Make sure the rollers are horizontally parallel to each other.



7 Slide feet on the bottom of hose bracket, into the slot on the bottom of sprayer.



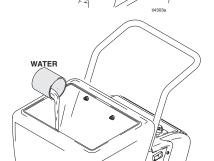
- 8 Replace knob. Hand tighten.
- 9 Reattach hose extension.
- 10 Replace front cover and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 10.



Hose Break-In Procedure

 Make sure fluid flow regulator (K) is turned all the way down.

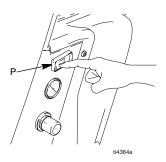
2 Pour approximately 1 gallon hot water in sprayer hopper to lubricate the pump.



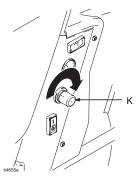
3 Turn power switch (A) on.



4 Hold in prime switch (P).



5 Turn fluid flow regulator (K) up to full pressure.



6 Run sprayer dry for 1 to 1-1/2 minutes.

Compressor and Motor Repair

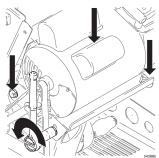
For 120 V sprayer use Compressor and Motor Replacement Kit, 287315.

For 230 V sprayer use Compressor and Motor Replacement Kit, 287344.

Kits include motor/compressor and mounting hardware.

4 Loosen 4 bolts (2 each side) to loosen tension on belt.

5 Slide belt off motor pully.



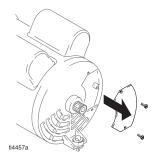
Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 10.

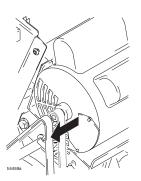
Then remove hopper, front and back covers, page 10.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 12.

 Remove two screws and access cover on the left side of the motor.



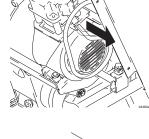
6 Disconnect air line from compressor to cooler and remove.



2 Remove ground nut and disconnect green ground wire.

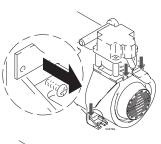


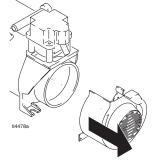
7 Remove 3 screws on right side of cover and remove cover.



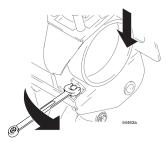
3 Disconnect black and white wires to motor.



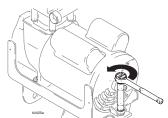




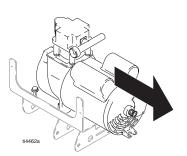
8 Loosen 2 shoulder bolts about 2-3 turns. Do not remove them.



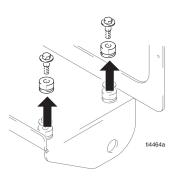
9 Remove single shoulder bolt on other side of motor completely.



10 Slide out motor assembly.



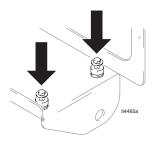
11 Completely remove old shoulder bolts and rubber mounts.



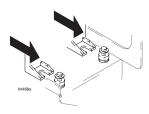
12 Thoroughly clean inside housing to remove dust and debris.

Reassembly

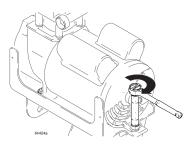
1 Using two new shoulder bolts and rubber mounts included in your kit, insert bolts into openings until they start to snug up on rubber mounts.



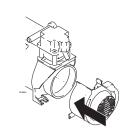
2 Slide new motor into sprayer frame, aligning motor frame opening under bolts. Tighten bolts.

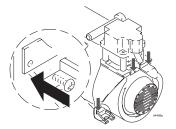


3 Replace shoulder bolt on left side with new bolt from your kit. Tighten bolt.



4 Replace end cover. Replace and tighten 3 screws.





5 Reattach air line to cooler and compressor. Tighten fitting.



- 6 Slide belt over pulleys and set tension. See Replacing Belt, page 20.
- 7 Reattach black and white wires to motor.



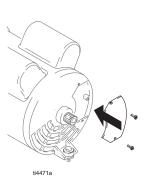
Wires are not polarity sensitive.



8 Replace reattach green ground wire and grounding nut.



- 9 Replace cover plate and screws.
- 10 Replace RotoFlex HD Pump and hose extension, page 13.
- 11 Replace front and back covers and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 10.



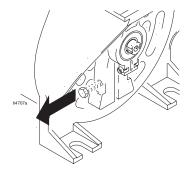
Compressor Rebuild Kit

To replace piston, seals and sleeve.

For 120 V sprayer use Compressor Rebuild Kit 287330.

For 230 V sprayer use Compressor Rebuild Kit 287331.

4 Remove 3/8 in. bolt holding piston to motor shaft.



Disassembly

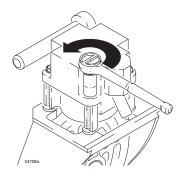
First read and follow instructions in the **Before** performing any service on sprayer section, page 10.

Then remove back cover, page 10.

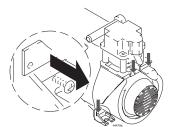
1 Disconnect air line to motor.



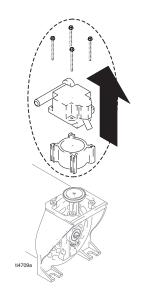
5 Loosen 4 bolts on top of motor housing.



2 Remove 3 screws in side of motor cover. Remove cover.

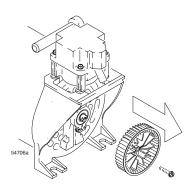


6 Remove bolts and housing from motor.

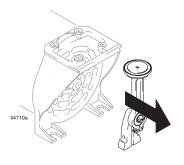


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3 Remove fan bolt from center of fan and remove fan from housing.

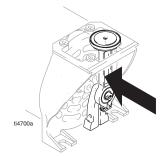


- 7 Remove piston rod from motor.
- 8 Using parts in kit replace piston, seals and sleeve.

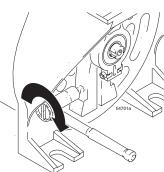


Reassembly

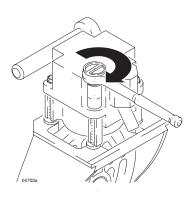
1 Insert new piston rod from kit in motor housing.



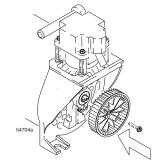
- 2 Replace and tighten piston bolt.
- 3 Replace top motor hosing and 4 bolts.



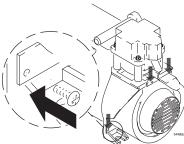
4 Tighten bolts.



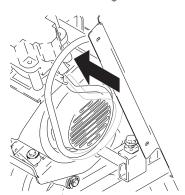
- 5 Replace motor fan and center fan bolt.
- 6 Tighten bolt.



7 Replace motor cover and screws.



- 8 Reconnect air line from motor to cooler.
- 9 Replace back cover. See Removing and Replacing Hopper, Front and Back Cover, page 10.



Removing and Replacing Belt

Use Belt Replacement Kits 118845.

First read and follow instructions in the **Before** performing any service on sprayer section, page 10.

Then remove hopper, front and back covers, page 10.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 12.

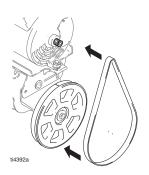
Removing Belt

 Loosen 4 bolts (2 each side) to loosen tension on belt.

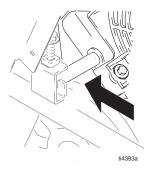


Replacing Belt

1 Using new belt from Kit, position new belt around pulleys making sure the teeth in the belt are properly engaged with teeth on pulleys.



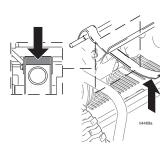
2 Replace support rod. Tighten 2 bolts (1 each side) to secure supporting rod.



2 Loosen 2 bolts (1 each side) holding down support rod.



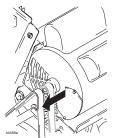
3 Insert crow bar under assembly as shown and raise motor assembly until desired belt tension is achieved.



3 Using a screw driver for leverage, lift up on motor support rod on one side of motor and ease it out of the holding bracket far enough to remove old belt. Discard old belt.

At the same time, slide in the new belt.

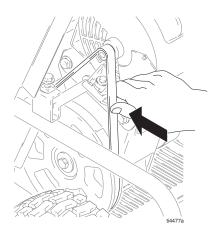




4 While holding motor assembly in place with crow bar. Spin pulley to assure proper belt engagement. Adjust motor assembly position as necessary.

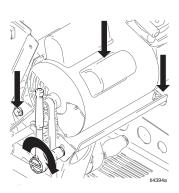


A correctly tensioned belt will feel very tight. To measure correct tension, apply 4-5 lbs pressure at belt midpoint with thumb. Belt should have approximately 1/8 in. (3.175 mm) deflection.



A loose belt will not last long. If in doubt, tighten more.

5 Tighten all 4 bolts.



- 6 Turn belt one more time with your hand to make sure teeth are properly engaged and tension is correct.
- 7 Replace RotoFlex HD Pump and hose extension, page 13.
- 8 Replace back and front covers and hopper.
 See Removing and Replacing Hopper, Front and Back Cover, page 10.



Roller Replacement

Use Roller Replacement Kit 287321.

Kit includes 2 rollers, 4 nylon washer, and 2 retaining rings.

Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 10.

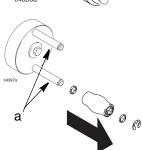
Then remove hopper, front and back covers, page 10.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 12.

1 Remove snap ring.

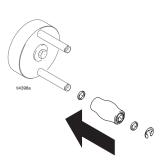


- 2 Remove roller assembly from rotor pins (a).
- 3 Clean rotor pins (a) and check for damage. If pins are worn or damaged, replace rotor assembly, (Rotor Assembly Replacement, page 23.



Reassembly

1 Replace roller assembly.



2 Reinstall snap ring.



- 3 Replace RotoFlex HD Pump and hose extension, page 13.
- 4 Replace back and front covers and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 10.

Rotor Assembly Replacement

Use Pump Assembly Replacement Kit 287255.

Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 10.

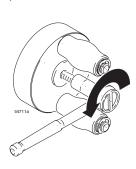
Then remove hopper, front and back covers, page 10.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 12.

1 To prevent rotor assembly from moving, insert a long screw driver or pry bar in the pulley.



- 2 Remove large bolt and washer in center of rotor assembly.
- 3 Pull rotor assembly off shaft.

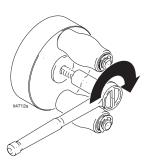


Reassembly

- 1 Put new rotor assembly from kit on shaft.
- 2 Insert a wrench in the pulley to prevent it from moving..



3 Replace bolt. Torque to 40 ft. lbs.



- 4 Replace RotoFlex HD Pump and hose extension, page 13.
- 5 Replace back and front covers and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 10.

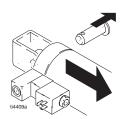
Air Cylinder and Solenoid Valve

Use Cylinder Replacement Kit, 287323.

For 120 V sprayer use Solenoid Replacement Kit 287324.

For 230V sprayer use Solenoid Replacement Kit 287351.

4 Gently push cylinder forward, relieving tension on pin. Pull out pin.



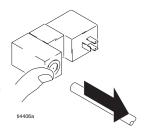
Disassembly

First read and follow instructions in the Before performing any service on sprayer section, page 10.

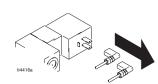
Then remove hopper, front and back covers, page 10.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 12.

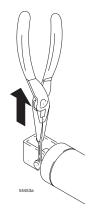
1 Remove hose from quick release fitting by using your fingers on one hand to push in on ring while at the same time, using the other hand, gently pull the hose out of the fitting.



2 Remove electric wire terminal connections.

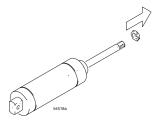


3 Remove cotter key located on the end of the cylinder pin, by using a pliers to straighten the ends and pull it out of the hole.

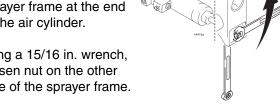


If replacing solenoid valve only, it can be done at this time.

- a Using an adjustable wrench, rotate entire solenoid valve assembly counter clockwise from cylinder.
- b Replace solenoid valve and continue with step 4 of reassembly.
- 5 Lift cylinder up and pull it back.
- 6 Remove dampening grommet.

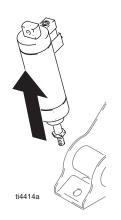


- 7 Using a 15/16 in. wrench, loosen nut, located inside sprayer frame at the end of the air cylinder.
- 8 Using a 15/16 in. wrench, loosen nut on the other side of the sprayer frame.



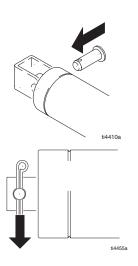
9 Pull cylinder out of sprayer frame.

> If replacing cylinder only, remove solenoid valve (see a and b above) and reinstall on new cylinder.

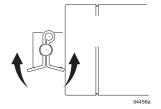


Reassembly

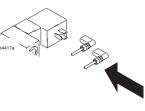
- 1 Insert crowned backing nut on shaft of cylinder.
- 2 Using new cylinder from kit, position cylinder in sprayer frame, inserting end of cylinder through pump bracket mounting hole.
- der n cylin-rame, f cylin-mp ng hole.
- 3 Install locking nut flush to end of shaft.
- 4 Install dampening grommet.
- 5 Align hole in end of air cylinder and replace pin.



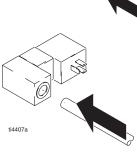
6 Replace cotter pin through hole in pin, bending ends to secure.



7 Reattach electric wire terminals. Terminals are not polarity sensitive and can be connected to either post.



8 Gently push hose in quick release fitting.



- 9 Replace RotoFlex HD Pump and hose extension, page 13.
- 10 Replace front cover and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 10.

Relief Valve and Flow Sensor Manifold

For 120 V sprayer use Relief Valve Replacement Kit 287325.

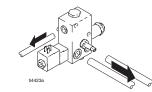
For 230 V sprayer use Relief Valve Replacement Kit 287350.

Disassembly

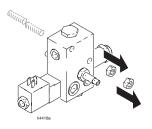
First read and follow instructions in the **Before** performing any service on sprayer section, page 10.

Then remove hopper, front and back covers, page 10.

- 1 Remove air line to regulator.
- 2 Remove air line from cooler to manifold.



- 3 Disconnect wires to Relief Valve. Pay attention to their location to insure they are reattached correctly.
- 4 Remove 2 nuts securing Relief Valve to sprayer.



5 Remove Relief Valve from sprayer frame.



Reassembly

- 1 Position new relief valve from Kit in back of sprayer.
- 2 Replace and tighten screws.
- 3 Reattach wires to Relief Valve.
- 4 Reattach air line from cooler to manifold.
- 5 Reattach air line to regulator.Replace RotoFlex HD Pump and hose extension, page 13.
- 6 Replace front cover and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 10.

Air Flow Sensor Replacement

For 120 V sprayer use Sensor Replacement Kit 287326.

For 230 V sprayer use Sensor Replacement Kit 287345.

If you are just replacing the sensor, you do not have to remove the motor first.

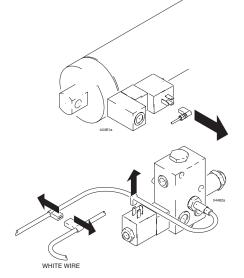
Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 10.

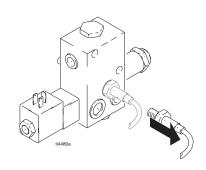
Then remove hopper, front and back covers, page 10.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 12.

1 Disconnect all wire connections.

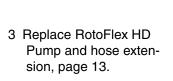


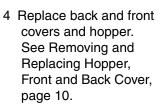
2 Rotate counter-clockwise to remove sensor from manifold.

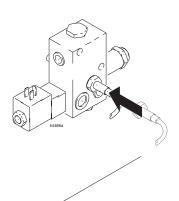


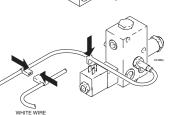
Reassembly

- 1 Rotate new sensor from kit clockwise, all the way into opening in Relief Valve housing. Lightly tighten nut.
- 2 Reconnect all wires.









Troubleshooting

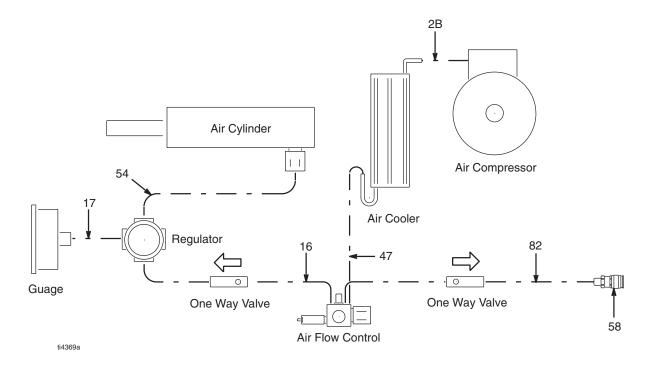


Pressure Relief, page 8

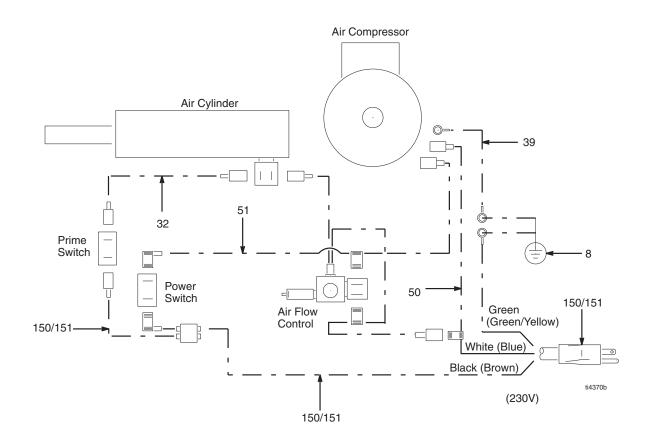
Power switch not on	Turn switch on.	
No power at wall outlet	Check outlet by plugging in another appliance. If appliance does not work, try another outlet.	
Wrong size generator	Use a 7500 watt or larger generator. Refer to Generator Requirements, page 9.	
Temperature too cold	Allow unit to warm up.	
Too many items on same circuit	Unplug other items from circuit.	
Internal thermal switch tripped	Self-resetting. Allow unit to cool down 15 minutes and restart. Usually occurs when wrong size extension cord is used.	
Extension cord too long or wrong gauge	Use a 12 gage extension cord or remove extension cord. Refer to Grounding and Electric Requirements, page 8.	
Breaker tripped	Reset breaker.	
Air lock	Open air valve on gun.	
Mix too thick	Add water to thin material. Use Material Thickness Gauge.	
Loose fittings	Check and retighten all fittings.	
Plugged gun	Relieve Pressure , page 8. Remove gun from hose. Clean gun.	
RotoFlex HD Pump worn out	Replace hose.	
Pump cold or material frozen in pump	Move pump to warm room and allow it to warm up or run hot water through sprayer.	
Sensor is bad	Replace, page 27	
Check air system for leaks	Remove shroud and examine for air leaks	
Loose wire	Remove shroud and examine wiring	
No air pressure	Rebuild compressor	
Sensor is bad	Change sensor, page 27	
Air leak due to bad seal keeps valve open	Replace seal	
Normal soft start system delay	Release trigger for 10-15 seconds. Retry.	
Switch is not operating properly	Replace switch	
Damaged solenoid valve on cylinder Alr leak	Check gun supply, hose and sprayer for leaks	
	Wrong size generator Temperature too cold Too many items on same circuit Internal thermal switch tripped Extension cord too long or wrong gauge Breaker tripped Air lock Mix too thick Loose fittings Plugged gun RotoFlex HD Pump worn out Pump cold or material frozen in pump Sensor is bad Check air system for leaks Loose wire No air pressure Sensor is bad Air leak due to bad seal keeps valve open Normal soft start system delay Switch is not operating properly	

Problem	Cause	Solution	
Material runs out of bottom of sprayer	RotoFlex HD Pump worn out	Replace hose.	
	Loose fittings	Check and retighten all fittings.	
No air from compressor	Gun air valve closed	Open gun air valve.	
	Gun needle plugged	Clean needle and retry.	
	Lines not connected	Check all quick disconnect connections to gun and hoses.	
	Damaged hose	Replace hose.	
	Worn compressor	Service compressor. Contact a qualified Graco Service Center.	
Speed of application too slow	Material too thick	Thin material.	
	Nozzle too small	Change nozzles to a larger size. See Operation Manual, Recommended Nozzle Selection Chart, page 20.	
Speed of application too slow (cont.)	Flow control set too low	Increase flow control setting	
	Plugged or dirty gun	Relieve Pressure , page 8. Clean gun.	
	Kinked hose	Unkink hose.	
	Gun fluid flow adjustment set too low	Increase flow adjustment with flow adjustment nut.	
Intermittent flow/sputtering or air in	Hopper connection not tight	Check gasket. Tighten connection.	
material	Debris in system	Clean	
Air quick disconnect does not stay connected.	Dirty or corroded fitting	Clean thoroughly. Soak in oil. Apply a few drops of light oil.	
Gun will not shut off	Worn nozzle or needle.	Relieve Pressure, page 8. Replace worn parts.	
	Debris in needle passage	Relieve Pressure, page 8. Clean.	
Fluid leaking at Flow Adjustment Nut	Damaged seal.	Relieve Pressure, page 8. Replace seal.	
Needle adjustment won't adjust	Dirty threads	Clean threads	
	Nozzle not on gun	Put nozzle on gun	
	Flow nut set to maximum adjustment	Turn flow nut adjustment the other way	

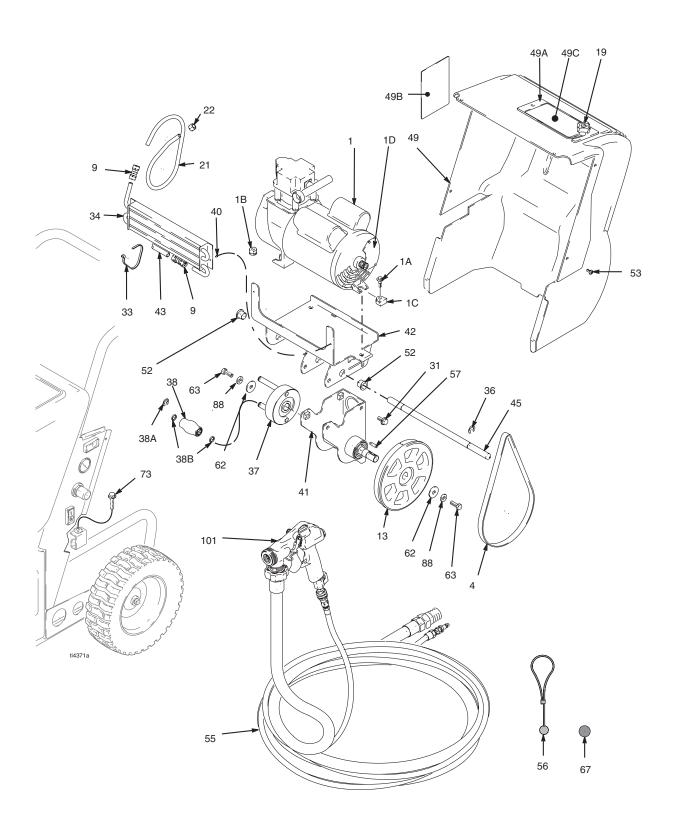
Air Diagram



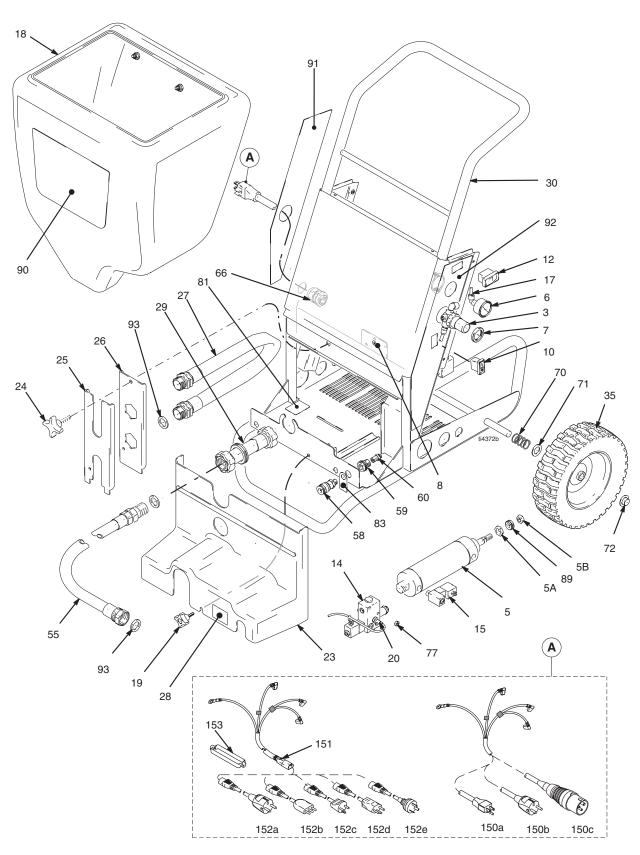
Wiring Diagram



Parts



Parts



Parts List

14.0				Item			
Item	Dout No.	Description	O+	No.	Part No.	Description	Qty
No.		Description	Qty	34	15B815	COOLER	1
1	28/315	KIT, compressor replacement	1	35	116478	WHEEL, pneumatic	2
		(includes 1A and 1B-1D), 120V		36		RING, retaining, ext.	2
		sprayers		37	287255	ROTOR, pump, assbly (includes	1
	287330	KIT, compressor rebuild, 120V				38, 38A, 38B)	
		sprayers		38	287321	KIT, roller replacement (includes	2
	287344	KIT, compressor replacement				38A, 38B and two rollers)	
		(includes 1A, and 1B-1D), 230V		38A	113983	RING, retaining, ext	2
		sprayers		38B	117726	WASHER, nylon	4
	287331	KIT, compressor rebuild, 230V		39	15D628	CONDUCTOR, ground	1
		sprayers		40	103785	RIVET	2
1A	119872	SCREW, shoulder	3	41	287327	KIT, repair, shaft, bracket, pump	1
1B	118886	GROMMET, isolator	2			assbly.	
1C		GROMMET, isolator	1	42	287256	BRACKET, compressor	1
1D		COVER, terminal	1	43	118869		1
3		REGULATOR, air, 1/8 in. NPT	1	45	15D610	SHAFT, motor, mount	1
4	118845		1	49	287346	SHIELD, rear, assbly (includes 19,	1
5	287323	KIT, cylinder, replacement,	1			49A, 49B, 49C)	
		(includes 5A, 5B, 89)		49A	15D561	COVER, tool tray	1
5A	15D576	SPACER, crowned	1	49B ▲	15D939	LABEL, warning, English, French,	
5B		NUT, lock, 1/2-20	1			Spanish	
6		GAUGE, pressure	1		287336	KIT, label, warning, all languages	
7		NUT, regulator	1			except those included in 15D939	
8▲		LABEL, ground, symbol	1	49C▲	15D940	LABEL, identification	
9		FITTING, compression, union	2	51		WIRE, jumper	1
10		SWITCH, power	1	52		BEARING, flanged, bronze	2
12		SWITCH, power	1	53		SCREW, torx, tri lob	8
13		PULLEY, rotor	1	54		TUBE, air	1
14	15D599	VALVE, assembly, 120V (includes	1	55	287304	HOSE SET, twin line, 1 in. x 25-ft	1
		sensor) sprayer		56	15C090	GAUGE, thickness, fluid	1
	287350	VALVE, assembly, 230V (includes		57		KEY, parallel	2
		sensor) sprayer		58		COUPLER, air, quick disconnect	1
15		VALVE, cylinder, 120V sprayer	1	59		FITTING, bulkhead	1
		VALVE, cylinder, 230V sprayer	1	60	116658	FITTING, tube, male, 1/4 NPT	1
16	118888	HOSE, air (includes 1/4 in. tubing	1	62		WASHER, plain	2 2
		and one-way valve)		63	106276		2
17		TUBE, air	1	66		BUSHING, strain relief	1
18	287347	HOPPER, texture (includes	1	67	113397	BALL, sponge, 30 mm	2
		bracket)		70		SPRING, compression	2
19		NUT, hand	1	71	116477	WASHER, flat, nylon	2
20		KIT, sensor only, 120V	1	72		CAP, end	2
		KIT, sensor only, 230V		73	112785		2
21		TUBE, air, aluminum	1	74 77	115498		1
22		NUT, compression	1	77		NUT, lock, hex	2
23		SHIELD, front (includes 28)	1	81▲		LABEL, warning	2
24		KNOB, pronged	1	82	118887	HOSE, air (includes 1/4 in. tubing	1
25		BRACKET, hose, outer	1	00.4	4ED000	and one-way valve)	
26		BRACKET, hose, inner	1	83▲		LABEL, warning, hot surface	1
27 28 A		KIT, RotoFlex HD Pump	1	88		WASHER, flat	1
28▲		LABEL, warning	1	89 00 A		GROMMET	1
29 20		HOSE, coupled (includes grommet)		90▲		LABEL, identification	1
30 31		FRAME, texture, blue SCREW, cap	1 4	91 ▲ 92 ▲		LABEL, identification LABEL, identification	1
32		WIRE, jumper	1	92 A		GASKET	1
32 33		STRAP, tie, wire	2	93 101	248091	GUN, non-bleeder	4 1
55	100473	OTTIAL, UE, WILE	2	101	240031	GOIN, HOH-DIEGUEI	1

Item				Item			
No.	Part No.	Description	Qty	No.	Part No.	Description	Qty
150		CORD, power		152c	242002	Italy	1
150a	15D630	Americas/Canada, 120V, 60 Hz	1	152d	242003	Denmark	1
150b	15E056	Europe/Asia, 230V, 50 Hz	1	152d	242004	Switzerland	1
		(hardwired, rubber cord)		152e	242005	Australia/China	1
150c	15E061	United Kingdom, 110V, 60, Hz	1	153	195551	RETAINER, (for 15D902)	1
151	15D902	CORD, power, Europe/Austra-	1				
		lia/China, 230V, 50 Hz (requires		▲ Re	eplacemer	nt Danger and Warning labels, tags	and
		cordset adapter, 152, following)		ca	rds are av	ailable at no cost.	
152		ADAPTER, cordset, (for 15D902),					
152a	242001	Europe	1				

120V, 60 Hz 15A

Technical Data

Maximum working fluid pressure 100 psi (6.9 bar)

Maximum working air pressure 45 psi (3.1 bar)

Material pressure operating range 0-100 psi (0 to 6.9 bar)

Compressor

Type Oilless

Air delivery 6.5 CFM @ 40 psi (184.1 lpm @ 2.8 bar)

Motor

230V, 50 Hz 10A Hopper capacity 15 US gallons (57 liters)

Maximum delivery with texture material 2.0 gpm (7.57 lpm)

Dimensions

Length 27 in. (685.8 mm) with handles

Width 26 in. (660.4 mm)
Height 40 in. (1016 mm)

Weight

With hoses and gun 147 lb (66.68 kg)

Without hoses and gun 131 lb (59.47 kg)

Wetted parts

PVC, Buna-N, anodized aluminum, powder coat
aluminum, brass, polyethylene, SST, UHMW

Sound data

Sound pressure level*

Sound power level#

Generator (minimum size requirement)

Maximum external working air pressure (must use

85.8 db(A)

100.1 db(A)

7500W (7.5 kw)

120 psi (8.3 bar)

External Air Hookup Kit 287328 ONLY)

*Measured while spraying at 1 m. #Measured per ISO-3744

Notes

Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be 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 general wear and tear, or 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 of Graco equipment with 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 claimed defect. 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.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, 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

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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ADDITIONAL WARRANTY COVERAGE

Graco does provide extended warranty and wear warranty for products described in the "Graco Contractor Equipment Warranty Program".

TO PLACE AN ORDER, contact your Graco distributor, or call 1-800-690-2894 to identify the nearest distributor.

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MM 310645

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PRINTED IN U.S.A. 310645E
3/2004 Rev. 6/2005