

RTX 1500 Electric Texture Sprayer

U.S. Patent No. D580,517S Europe Patent No. 1511575

310645K

- For Water-Based Materials Only -

(Consult your Material Supplier for Warnings and Application Requirements)

Models: Page 2

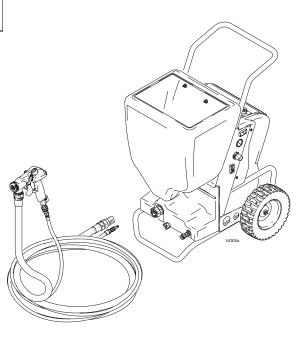
Maximum Working Air Pressure: 45 psi (3.1 bar) Maximum Working Fluid Pressure: 100 psi (6.9 bar)



Read all warnings and instructions.

NOTICE

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



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Models

| 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 | 6 | 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



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.

| Â | 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.' |
| 汕 | 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. |

| Λ | WARNINGS |
|-----------|--|
| | SKIN INJECTION HAZARD High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. Get immediate surgical treatment. Do not point gun at anyone or at any part of the body. Do not put your hand over the spray tip. Do not stop or deflect leaks with your hand, body, glove, or rag. Do not spray without tip guard and trigger guard installed. Engage trigger lock when not spraying. Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment. |
| | 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 34 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 gloves |

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,
- 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.

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Component Identification

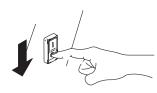
Component Identification

| 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 |

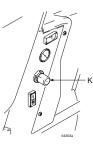
Preparation

Pressure Relief Procedure

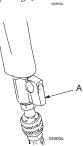
1 Turn Main Power Switch (A) OFF.



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).



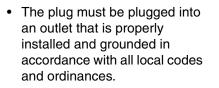
Grounding and Electric Requirements

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



Read warnings, page 3.

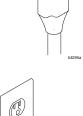
 The sprayer cord includes a grounding wire with an appropriate grounding prong.



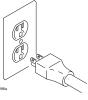
- Do not modify plug! If it will not fit in outlet, have grounded outlet installed by a qualified electrician.
- Sprayer model electric requirements are provided on page 2.

Extension Cords

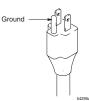
- Only use an extension cord with an undamaged 3-prong plug.
- For up to 100 ft (30.48 m) cord, use 3-wire, 12 AWG (2.5 mm²) minimum.



Ground







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

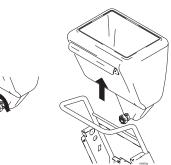
Before performing any service on sprayer always:

- Read all warnings, page 3.
- Read operating instructions manual, page 2.
- Relieve Pressure, page 7.
- 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

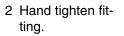
1 To remove hopper loosen fitting. Fittings are hand-tightened and should not require tools to loosen.

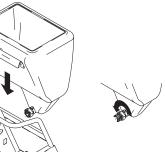


2 Lift hopper straight up, off frame.

Replacing Hopper

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





Front Cover

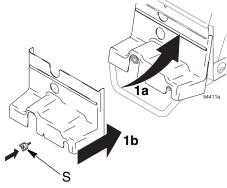
Removing Cover

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

3 Place you hand under front, bottom edge of cover.
(3a) Lift cover up,
(3b) then pull bottom toward you and out to remove cover.

Replacing Cover

 Place your hand under front, bottom edge of cover.
 (1a) Position top edge of cover under top metal lip on sprayer frame.
 (1b) Then push up on cover so lower plastic edge



3a

3b

S

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.

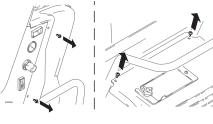
- 2 Replace knob (S). Hand tighten fitting.
- 3 Replace hopper.

Back Cover

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

Removing Cover

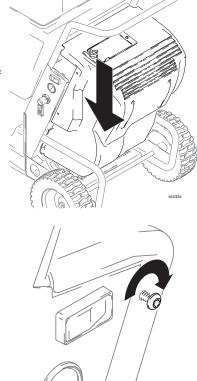
1 Completely remove 6 screws (2 on top and each side) from cover.



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

Replacing Cover

- 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.



ti4433a

RotoFlex[™] HD Pump

ti4377a

ti4378a

Use RotoFlex HD Pump Replacement Kit 287314.

 After replacing RotoFlex HD Pump hose, always follow Hose Break-In Procedure, page 13, before operating sprayer.

Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 9.

Then remove hopper and front cover, page 9.

1 Loosen and remove hose extension.

2 Loosen and remove knob.

3 Slide RotoFlex HD hose

off rollers.

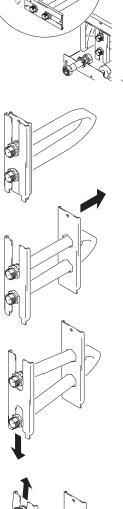
5 Separate the inner and outer hose brackets.

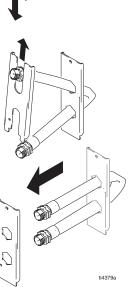
4 Rotate pump assembly sideways. Pull entire assembly out of front of

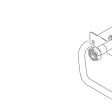
sprayer frame.

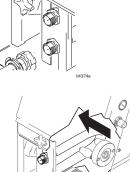
- 6 Slide hose ends out of slots in outer hose bracket.
 - Slide out of short slot first.

- 7 Pull hose out of inner hose bracket.
- 8 Discard pump hose.





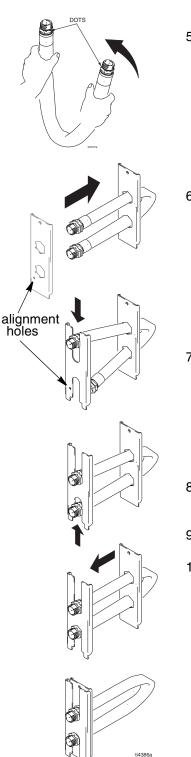




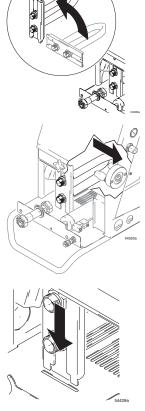
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Reassembly

- 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 9.





Hose Break-In Procedure 3 Turn power switch (A) on. 1 Make sure fluid flow regulator (K) is turned all the way down. ti4653a (C Ò 4 Hold in prime switch (P). Ć B F ti4303 2 Pour approximately 1 gallon hot water in sprayer ti4364a WATER hopper to lubri-5 Turn fluid flow regulator (K) up to full pressure. cate the pump. ĸ -

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.

Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 9.

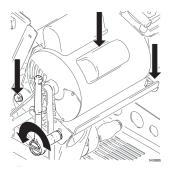
Then remove hopper, front and back covers, page 9.

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Remove hose extension and RotoFlex HD Pump assembly from frame, page 11.

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

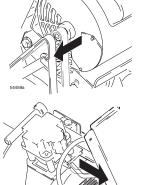
- 2 Remove ground nut and disconnect green ground wire.
- 3 Disconnect black and white wires to motor.

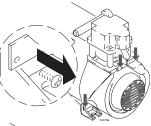


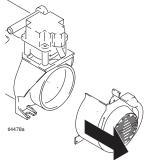
5 Slide belt off motor pully.

6 Disconnect air line from compressor to cooler and remove.

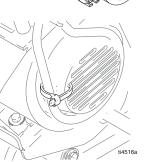
7 Remove 3 screws on right side of cover and remove cover.





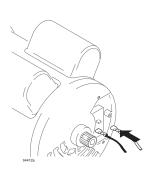


- 8 Loosen 2 shoulder bolts Reassembly about 2-3 turns. Do not 1 Using two new shoulder remove them. bolts and rubber mounts included in your kit, insert bolts into openings until they start to snug up on rubber mounts. 9 Remove single shoulder bolt on other side of motor completely. 2 Slide new motor into sprayer frame, aligning motor frame opening under bolts. Tighten bolts. 3 Replace shoulder bolt on left side with new 10 Slide out motor assembly. bolt from your kit. Tighten bolt. 4 Replace end cover. ti4462a Replace and tighten 3 screws. 11 Completely remove old shoulder bolts and rubber mounts. D ti4464a 12 Thoroughly clean inside housing to remove dust and
 - 5 Reattach air line to cooler and compressor. Tighten fitting.

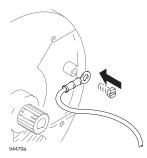


debris.

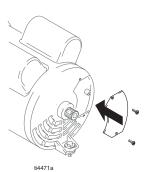
- 6 Slide belt over pulleys and set tension. See Replacing Belt, page 19.
- 7 Reattach black and white wires to motor.
- Wires are not polarity sensitive.



8 Replace reattach green ground wire and grounding nut.



- 9 Replace cover plate and screws.
- 10 Replace RotoFlex HD Pump and hose extension, page 12.
- 11 Replace front and back covers and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 9.



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.

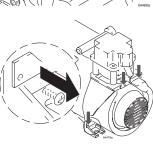
Disassembly

First read and follow instructions in the **Before performing any service on sprayer** section, page 9.

Then remove back cover, page 9.

1 Disconnect air line to motor.

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



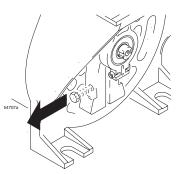
5 Loosen 4 bolts on top of motor housing.

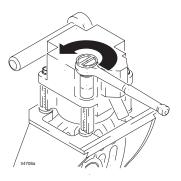
6 Remove bolts and

housing from motor.

4 Remove 3/8 in. bolt holding piston to

motor shaft.

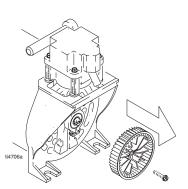




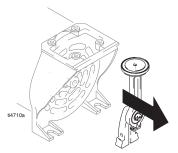
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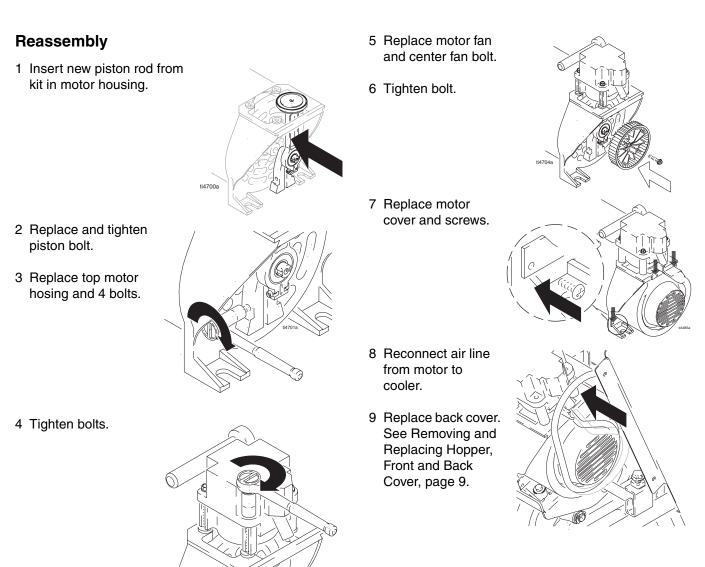


3 Remove fan bolt from center of fan and remove fan from housing.



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





Removing and Replacing 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.

ing rod.

Tighten 2 bolts (1 each

side) to secure support-

Use Belt Replacement Kits 118845.

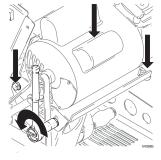
First read and follow instructions in the **Before** performing any service on sprayer section, page 9.

Then remove hopper, front and back covers, page 9.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 11.

Removing Belt

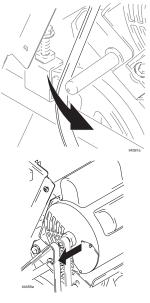
1 Loosen 4 bolts (2 each side) to loosen tension on belt.



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

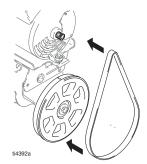


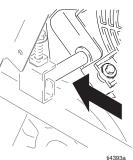


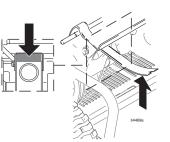
3 Insert crow bar under assembly as shown and raise motor assembly until desired belt ten-

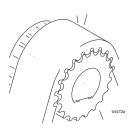
sion is achieved.

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



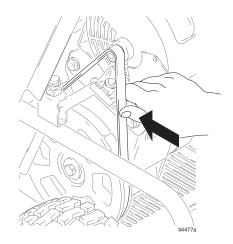






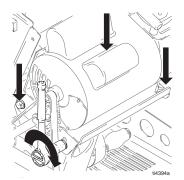


A correctly tensioned belt will feel very tight. To measure correct tension, apply 4-5 lbs pressure at belt midpoint with thumb. Belt should have approximately 1/8 in. (3.175 mm) deflection.

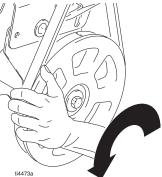


A loose belt will not last long. If in doubt, tighten more.

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 12.



8 Replace back and front covers and hopper.
 See Removing and Replacing Hopper, Front and Back Cover, page 9.

Roller Replacement

Use Roller Replacement Kit 287321.

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

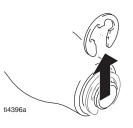
Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 9.

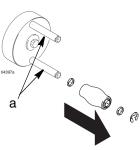
Then remove hopper, front and back covers, page 9.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 11.

1 Remove snap ring.

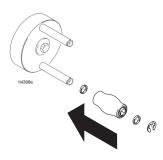


- 2 Remove roller assembly from rotor pins (a).
- 3 Clean rotor pins (a) and check for damage. If pins are worn or damaged, replace rotor assembly, (Rotor Assembly Replacement, page 22).



Reassembly

1 Replace roller assembly.



2 Reinstall snap ring.



- 3 Replace RotoFlex HD Pump and hose extension, page 12.
- 4 Replace back and front covers and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 9.

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 9.

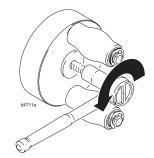
Then remove hopper, front and back covers, page 9.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 11.

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



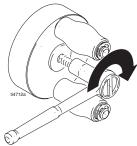
- 2 Remove large bolt and washer in center of rotor assembly.
- 3 Pull rotor assembly off shaft.



- 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. lb.



- 4 Replace RotoFlex HD Pump and hose extension, page 12.
- 5 Replace back and front covers and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 9.

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.

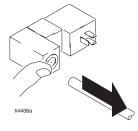
Disassembly

First read and follow instructions in the **Before** performing any service on sprayer section, page 9.

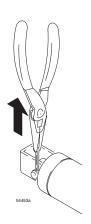
Then remove hopper, front and back covers, page 9.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 11.

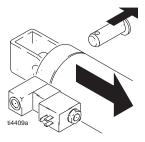
1 Remove hose from quick release fitting by using your fingers on one hand to push in on ring while at the same time, using the other hand, gently pull the hose out of the fitting.



- 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.



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

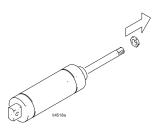


If replacing solenoid valve only, it can be done at this time.

- 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.

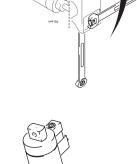
6 Remove dampening

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.

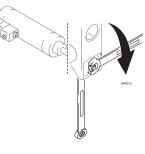
If replacing cylinder only, remove solenoid valve (see a and b above) and reinstall on new cylinder.



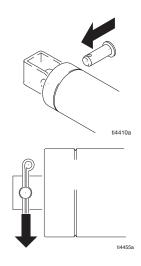


Reassembly

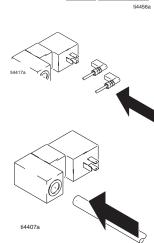
- 1 Insert crowned backing nut on shaft of cylinder.
- 2 Using new cylinder from kit, position cylinder in sprayer frame, inserting end of cylinder through pump bracket mounting hole.



- 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 12.
- 10 Replace front cover and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 9.

Relief Valve and Flow Sensor Manifold

For 120 V sprayer use Relief Valve Replacement Kit 287325.

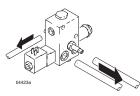
For 230 V sprayer use Relief Valve Replacement Kit 287350.

Disassembly

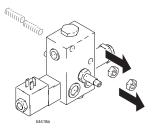
First read and follow instructions in the **Before** performing any service on sprayer section, page 9.

Then remove hopper, front and back covers, page 9.

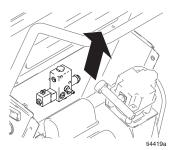
- 1 Remove air line to regulator.
- 2 Remove air line from cooler to manifold.



- 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 12.
- 6 Replace front cover and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 9.

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 9.

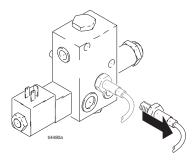
Then remove hopper, front and back covers, page 9.

Remove hose extension and RotoFlex HD Pump assembly from frame, page 11.

1 Disconnect all wire connections.

KHTE WIRE

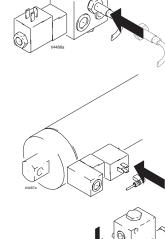
2 Rotate counter-clockwise to remove sensor from manifold.



Reassembly

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

2 Reconnect all wires.



- 3 Replace RotoFlex HD Pump and hose extension, page 12.
- 4 Replace back and front covers and hopper. See Removing and Replacing Hopper, Front and Back Cover, page 9.

Troubleshooting

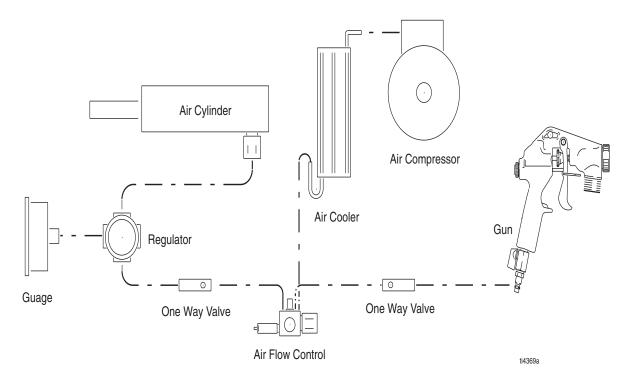


Pressure Relief, page 7

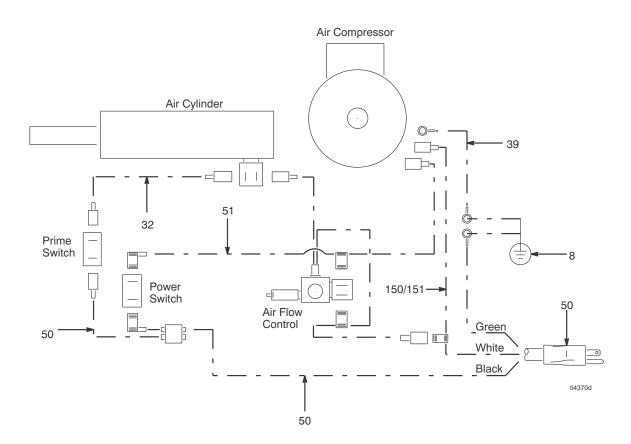
| Problem | Cause | Solution |
|--------------------------------------|--|---|
| Sprayer won't run or stops intermit- | Power switch not on | Turn switch on. |
| tently | No power at wall outlet | Check outlet by plugging in another appliance. If appliance does not work, try another outlet. |
| | Wrong size generator | Use a 7500 watt or larger generator. Refer to Generator Requirements, page 8. |
| | 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 Require- ments, page 7. |
| | Breaker tripped | Reset breaker. |
| Pump won't pump material or low | Air lock | Open air valve on gun. |
| output | Mix too thick | Add water to thin material. Use Mate- rial Thickness Gauge. |
| | Loose fittings | Check and retighten all fittings. |
| | Plugged gun | Relieve Pressure, page 7. 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 26 |
| | Check air system for leaks | Remove shroud and examine for air leaks |
| | Loose wire | Remove shroud and examine wiring |
| | No air pressure | Rebuild compressor |
| Soft start won't work/pump, always | Sensor is bad | Change sensor, page 26 |
| loaded | 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 |

| 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 connec- tions to gun and hoses. |
| | Damaged hose | Replace hose. |
| | Worn compressor | Service compressor. Contact a quali- fied 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 7. 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 7. Replace worn parts. |
| | Debris in needle passage | Relieve Pressure, page 7. Clean. |
| Fluid leaking at Flow Adjustment Nut | Damaged seal. | Relieve Pressure, page 7. 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 |

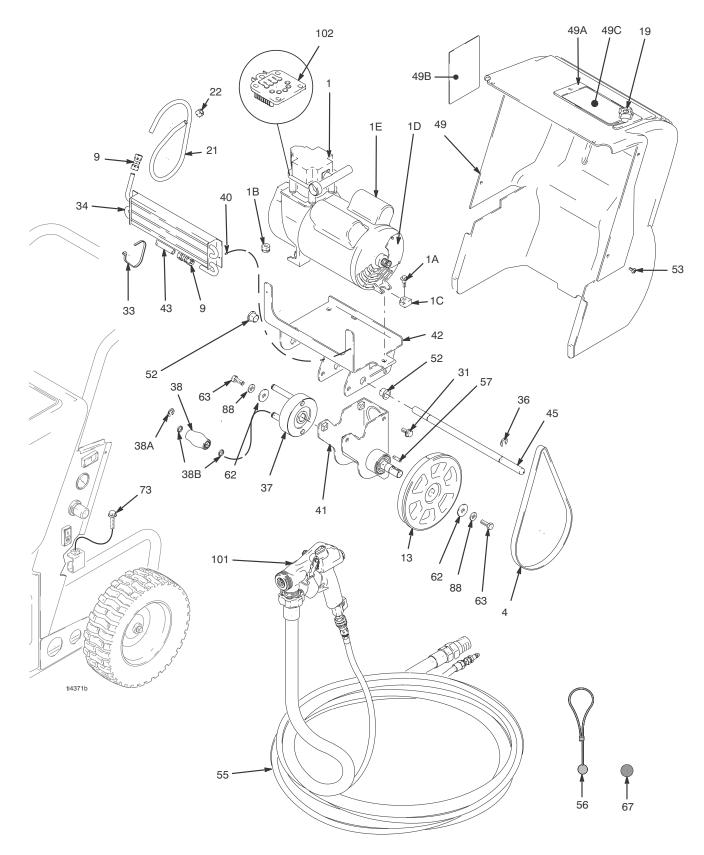
Air Diagram



Wiring Diagram



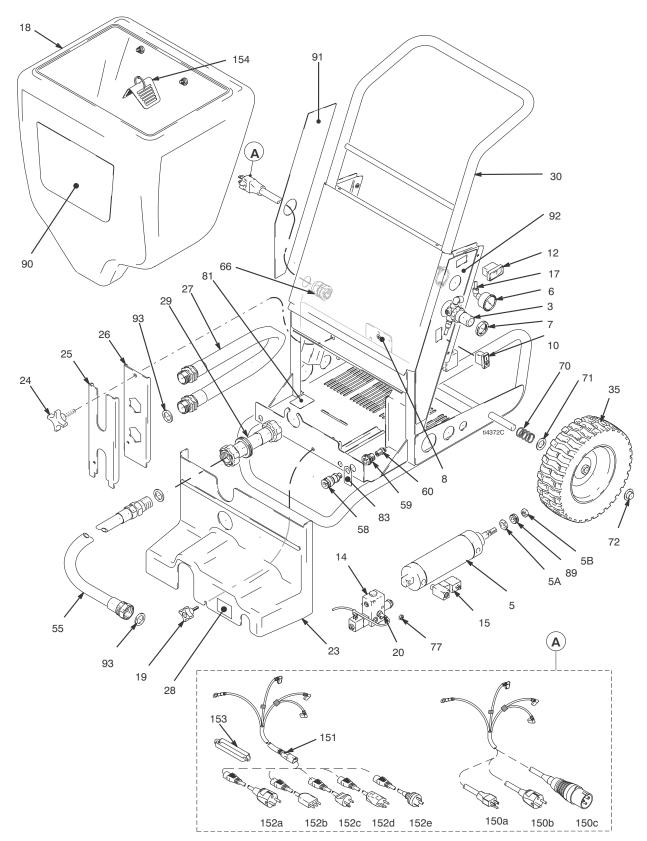




Parts List

| Item No. 1 | 287315 287330 287344 287331 | Description KIT, compressor replacement (includes 1A and 1B-1E), 120V sprayers KIT, compressor rebuild, 120V sprayers KIT, compressor replacement (includes 1A, and 1B-1D), 230V sprayers KIT, compressor rebuild, 230V sprayers SCREW, shoulder | Qty 1 | Item No. 39 40 41 42 43 45 49 49A 49B▲ | 15D628 103785 287327 287256 118869 15D610 287346 15D561 | KIT, repair, shaft, bracket, pump assbly. BRACKET, compressor | Qty 1 2 1 1 1 1 1 |
|---|--|--|---|--|--|---|--|
| 1B 1C 1D 1E 4 9 13 16 19 21 22 31 32 33 34 36 37 38 38 A | 118886 118889 119381 121479 118845 117728 15D156 118888 15D862 118876 117637 112395 15D633 103473 15B815 101242 287255 287321 113983 | GROMMET, isolator GROMMET, isolator COVER, terminal CAPACITOR, start BELT FITTING, compression, union PULLEY, rotor HOSE, air (includes 1/4 in. tubing and one-way valve) NUT, hand TUBE, air, aluminum NUT, compression SCREW, cap WIRE, jumper STRAP, tie, wire COOLER RING, retaining, ext. ROTOR, pump, assbly (includes 38, 38A, 38B) KIT, roller replacement (includes 38A, 38B and two rollers) RING, retaining, ext | 2 1 1 1 2 1 1 1 1 1 2 1 2 2 2 | 51 52 53 54 55 56 57 58 62 63 67 73 74 82 88 101 102 | 15D940 15D634 116937 117630 116666 287304 15C090 183401 116720 108851 106276 113397 112785 115498 118887 118866 248091 122104 | KIT, label, warning, all languages except those included in 15D939 LABEL, identification WIRE, jumper BEARING, flanged, bronze SCREW, torx, tri lob TUBE, air HOSE SET, twin line, 1 in. x 25-ft GAUGE, thickness, fluid KEY, parallel COUPLER, air, quick disconnect WASHER, plain SCREW, cap, hex head BALL, sponge, 30 mm SCREW, flanged, hex head SCREW, mach, slot, hex, wash hd HOSE, air (includes 1/4 in. tubing and one-way valve) WASHER, flat GUN, non-bleeder VALVE PLATE, compressor | 1 2 8 1 1 2 2 2 2 1 1 1 1 1 |
| 38B | 117726 | WASHER, nylon | 4 | | | nt Danger and Warning labels, tags a railable at no cost. | and |





Parts List

| Item No. 3 5 | 118844 287323 15D576 | Description REGULATOR, air, 1/8 in. NPT KIT, cylinder, replacement, (includes 5A, 5B, 89) SPACER, crowned | Qty 1 1 | Item No. 51 54 55 58 59 | 15D634 116666 287304 | Description WIRE, jumper TUBE, air HOSE SET, twin line, 1 in. x 25-ft COUPLER, air, quick disconnect FITTING, bulkhead | Qty 1 1 1 1 |
|-------------------------------------|----------------------------|---|----------------------|---|----------------------------|--|--------------------------------|
| 5B 6 | | NUT, lock, 1/2-20 GAUGE, pressure | 1 1 | 60 | | FITTING, tube, male, 1/4 NPT | 1 |
| 7 | | NUT, regulator | 1 | 66 | | BUSHING, strain relief | 1 |
| , 8▲ | | LABEL, ground, symbol | 1 | 70 71 | 116411 | SPRING, compression WASHER, flat, nylon | 2 2 |
| 10 | 117693 | SWITCH, power | 1 | 72 | | CAP, end | 2 |
| 12 | | SWITCH, power | 1 | 74 | | SCREW, mach, slot, hex, wash hd | 1 |
| 14 | 15D559 | VALVE, assembly, 120V (includes | 1 | 77 | 102040 | | 2 |
| | | sensor) sprayer | | 81▲ | 198492 | | 2 2 |
| | 287350 | VALVE, assembly, 230V (includes | | 82 | 118887 | HOSE, air (includes 1/4 in. tubing | 1 |
| 15 16 | 287351 | sensor) sprayer VALVE, cylinder, 120V sprayer VALVE, cylinder, 230V sprayer HOSE, air (includes 1/4 in. tubing and one-way valve) | 1 1 1 | 83▲ 89 90▲ 91▲ | 801012 15D951 | and one-way valve) LABEL, warning, hot surface GROMMET LABEL, identification | 1 1 1 |
| 17 | 150.968 | TUBE, air | 1 | 91▲ 92▲ | | LABEL, identification LABEL, identification | 1 1 |
| 18 | | HOPPER, texture (includes | 1 | 93 | | GASKET | 4 |
| | | bracket) | | 150 | 110072 | CORD, power | • |
| 19 | 15D862 | NUT, hand | 1 | | 15D630 | Americas/Canada, 120V, 60 Hz | 1 |
| 20 | | KIT, sensor only, 120V | 1 | | | Europe/Asia, 230V, 50 Hz | 1 |
| | | KIT, sensor only, 230V | | | | (hardwired, rubber cord) | |
| 23 | | SHIELD, front (includes 28) | 1 | | | United Kingdom, 110V, 60, Hz | 1 |
| 24 | | KNOB, pronged | 1 | 151 | 15D902 | CORD, power, Europe/Austra- | 1 |
| 25 | | BRACKET, hose, outer | 1 | | | lia/China, 230V, 50 Hz (requires | |
| 26 | | BRACKET, hose, inner | 1 | | | cordset adapter, 152, following) | |
| 27 28▲ | | KIT, RotoFlex HD Pump LABEL, warning | 1 1 | 152 | | ADAPTER, cordset, (for 15D902), | |
| 20 29 | | HOSE, coupled (includes grommet | | | 242001 | Europe | 1 |
| 30 | | FRAME, texture, blue | , i 1 | | 242002 | , | 1 |
| 32 | 15D633 | WIRE, jumper | 1 | | 242003 242004 | | 1 1 |
| 35 | | WHEEL, pneumatic | 2 | | | Australia/China | 1 |
| | | LABEL, warning, English, French, | | 1520 | 195551 | | 1 |
| | | Spanish KIT, label, warning, all languages except those included in 15D939 | | 154 | 15F966 | BAFFLE, hopper | 1 |

except those included in 15D939 49C▲ 15D940 LABEL, identification

Technical Data

Maximum working fluid pressure Maximum working air pressure Material pressure operating range Compressor Type Air delivery

Motor

Hopper capacity Maximum delivery with texture material Dimensions Length Width Height Weight With hoses and gun Without hoses and gun Wetted parts Sound data Sound pressure level*

Sound pressure level Sound power level# Generator (minimum size requirement) Maximum external working air pressure (must use *External Air Hookup Kit 287328 ONLY*)

*Measured while spraying at 1 m. #Measured per ISO-3744 100 psi (6.9 bar) 45 psi (3.1 bar) 0-100 psi (0 to 6.9 bar)

Oilless 6.5 CFM @ 40 psi (184.1 lpm @ 2.8 bar)

> 120V, 60 Hz 15A 230V, 50 Hz 10A 15 US gallons (57 liters) 2.0 gpm (7.57 lpm)

27 in. (685.8 mm) with handles 26 in. (660.4 mm) 40 in. (1016 mm)

147 lb (66.68 kg) 131 lb (59.47 kg) PVC, Buna-N, anodized aluminum, powder coat aluminum, brass, polyethylene, SST, UHMW

> 85.8 db(A) 100.1 db(A) 7500W (7.5 kW) 120 psi (8.3 bar)

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.

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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.

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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

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1441 www.graco.com 3/2004 Rev. 08/2009