

Kohler Engine Models for GMAX™ 3400, GMAX™ II 3900/5900/7900, and TexSpray 5900HD/7900HD Airless Sprayers

3A9018A
EN

Provides instruction for engine removal and installation of select Kohler engines from select Graco contractor products. Also provides product label location information, model cross references, and unique replacement part numbers for Kohler engine configurations. Not for use with other engines or other Graco products.

3300 psi (22.8 MPa, 228 bar) Maximum Working Pressure





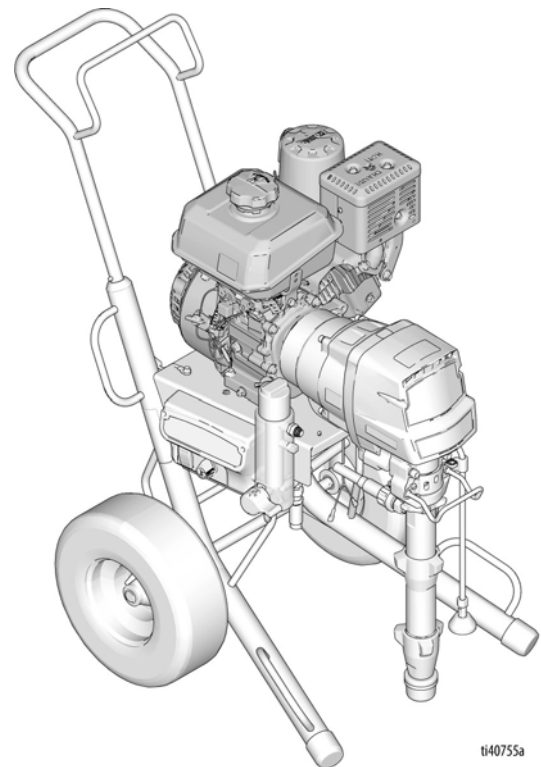
Important Safety Instructions

Read all warnings and instructions in this manual, the gas engine manual, and related manuals before using the equipment. Be familiar with the controls and the proper usage of the equipment. Save these instructions.

Use the following related manuals for operating the sprayer and replacing parts on sprayers with Kohler engines.

Related Manuals:	Manuals in English:
Operation	3A6400
Parts	3A6417
Kohler Engine Manuals	

Model	Kohler Standard	Kohler EMEA	
			
GMAX 3400	17E825K	17E825KE	
GMAX II 3900	17E827K	17E827KE	
GMAX II 5900	17E831K	17E831KE	
GMAX II 7900	17E836K	17E836KE	
TexSpray 5900HD	17E839K	17E839KE	
TexSpray 7900HD	17E841K	17E841KE	











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Warning

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

 <h2 style="margin: 0;">WARNING</h2>	
    	<p>FIRE AND EXPLOSION HAZARD</p> <p>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. Paint or solvent flowing through the equipment can cause static sparking. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • Use equipment only in well-ventilated area. • Do not fill fuel tank while engine is running or hot; shut off engine and let it cool. Leave 5/8 inch (16 mm) at top of tank for fuel expansion. Fuel is flammable and can ignite or explode if spilled on hot surface. • Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static sparking). • Ground all equipment in the work area. See Grounding instructions in primary operation manual (3A6400). • Never spray or flush solvent at high pressure. • Keep work area free of debris, including solvent, rags and gasoline. • Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present. • Use only grounded hoses. • Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail liners unless they are anti-static or conductive. • Stop operation immediately if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem. • Keep a working fire extinguisher in the work area.
	<p>CARBON MONOXIDE HAZARD</p> <p>Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon monoxide can cause death.</p> <ul style="list-style-type: none"> • Do not operate internal combustion engine in an enclosed area.
	<p>BURN HAZARD</p> <p>Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns:</p> <ul style="list-style-type: none"> • Do not touch hot fluid or equipment.

! WARNING



SKIN INJECTION HAZARD

High-pressure spray is able to inject toxins into the body and cause serious injury that can result in amputation. In the event that injection occurs, **get immediate surgical treatment**.



- Do not aim the gun at, or spray any person or animal.
- Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
- Always use the nozzle tip guard. Do not spray without nozzle tip guard in place.
- Use Graco nozzle tips.
- Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, follow the **Pressure Relief Procedure** in primary operation manual (3A6400) for turning off the unit and relieving the pressure before removing the nozzle tip to clean.
- Equipment maintains pressure after power is shut off. Do not leave the equipment energized or under pressure while unattended. Follow the **Pressure Relief Procedure** in primary operation manual (3A6400) when the equipment is unattended or not in use, and before servicing, cleaning, or removing parts.
- Check hoses and parts for signs of damage. Replace any damaged hoses or parts.
- This system is capable of producing 3300 psi (228 bar, 22.8 MPa). Use Graco parts or accessories that are rated a minimum of 3300 psi (228 bar, 22.8 MPa).
- Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
- Verify that all connections are secure before operating the unit.
- Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls.



EQUIPMENT MISUSE HAZARD







Misuse can cause death or serious injury.



- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Specifications** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Specifications** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the **Pressure Relief Procedure** in primary operation manual (3A6400) when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



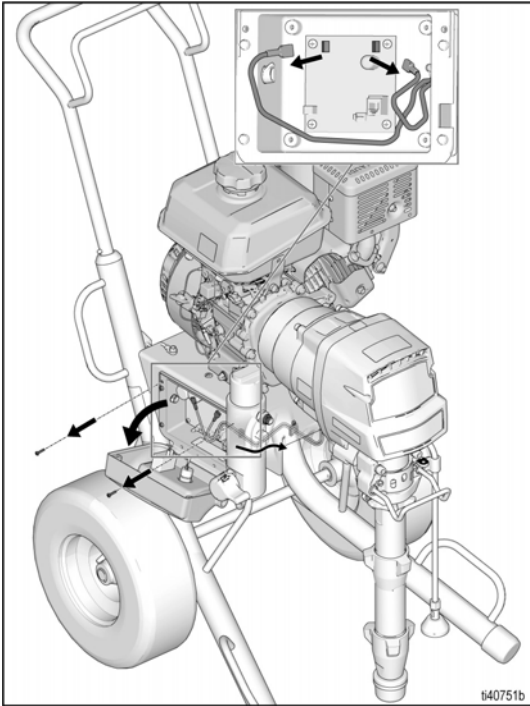
WARNING

	<p>PRESSURIZED ALUMINUM PARTS HAZARD</p> <p>Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.</p> <ul style="list-style-type: none"> • Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents. • Do not use chlorine bleach. • Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.
 	<p>MOVING PARTS HAZARD</p> <p>Moving parts can pinch, cut or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> • Keep clear of moving parts. • Do not operate equipment with protective guards or covers removed. • Equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure in primary operation manual (3A6400) and disconnect all power sources.
	<p>TOXIC FLUID OR FUMES HAZARD</p> <p>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</p> <ul style="list-style-type: none"> • Read Safety Data Sheets (SDSs) to know the specific hazards of the fluids you are using. • Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
	<p>RECOIL HAZARD</p> <p>Gun may recoil when triggered. If you are not standing securely, you could fall and be seriously injured.</p>
	<p>PERSONAL PROTECTIVE EQUIPMENT</p> <p>Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear, and hearing protection. • Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

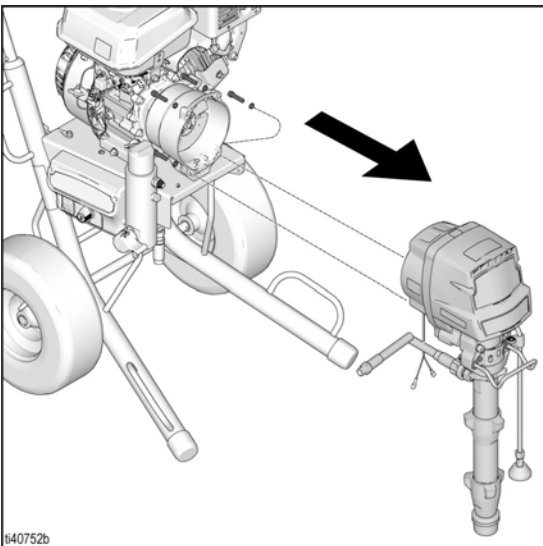
Engine Removal and Installation



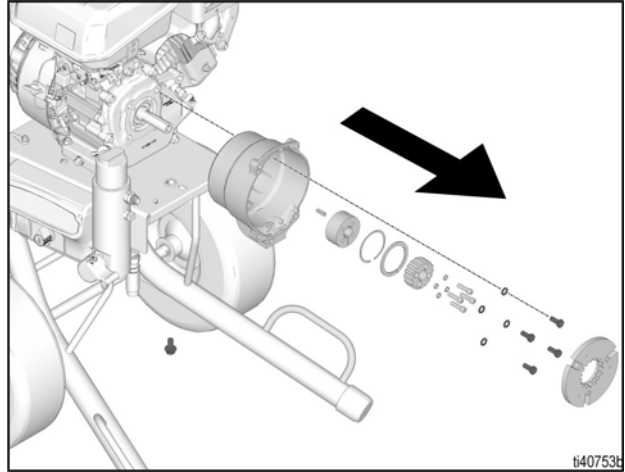
1. Allow sprayer to cool and follow **Pressure Relief Procedure** in primary operation manual (3A6400).
2. Unplug wires from control box.



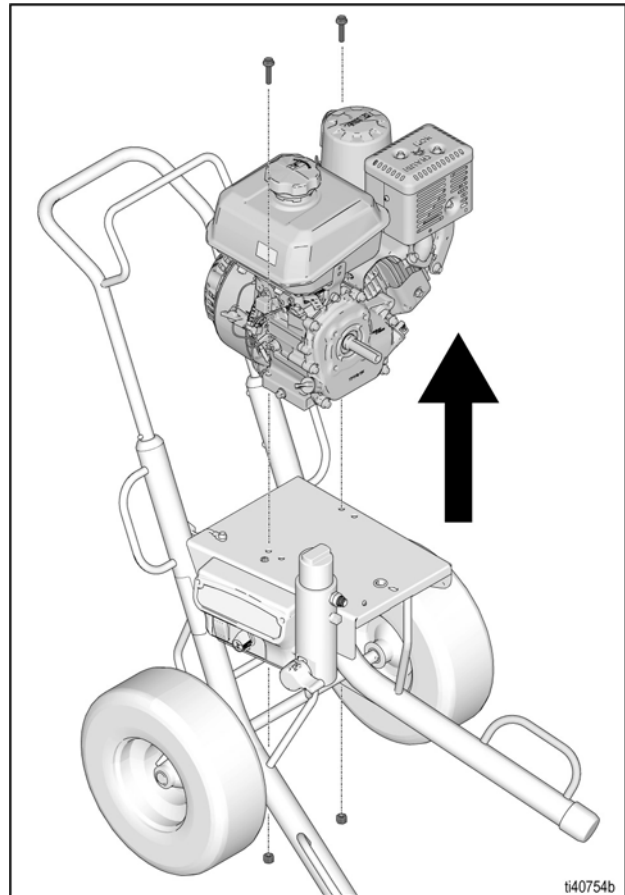
3. Loosen and remove four washers and four screws. Remove gear box assembly and pump.



4. Remove clutch assembly and housing. Refer to **Pinion Assembly/Clutch Armature/Clamp** section in manual 3A6400.

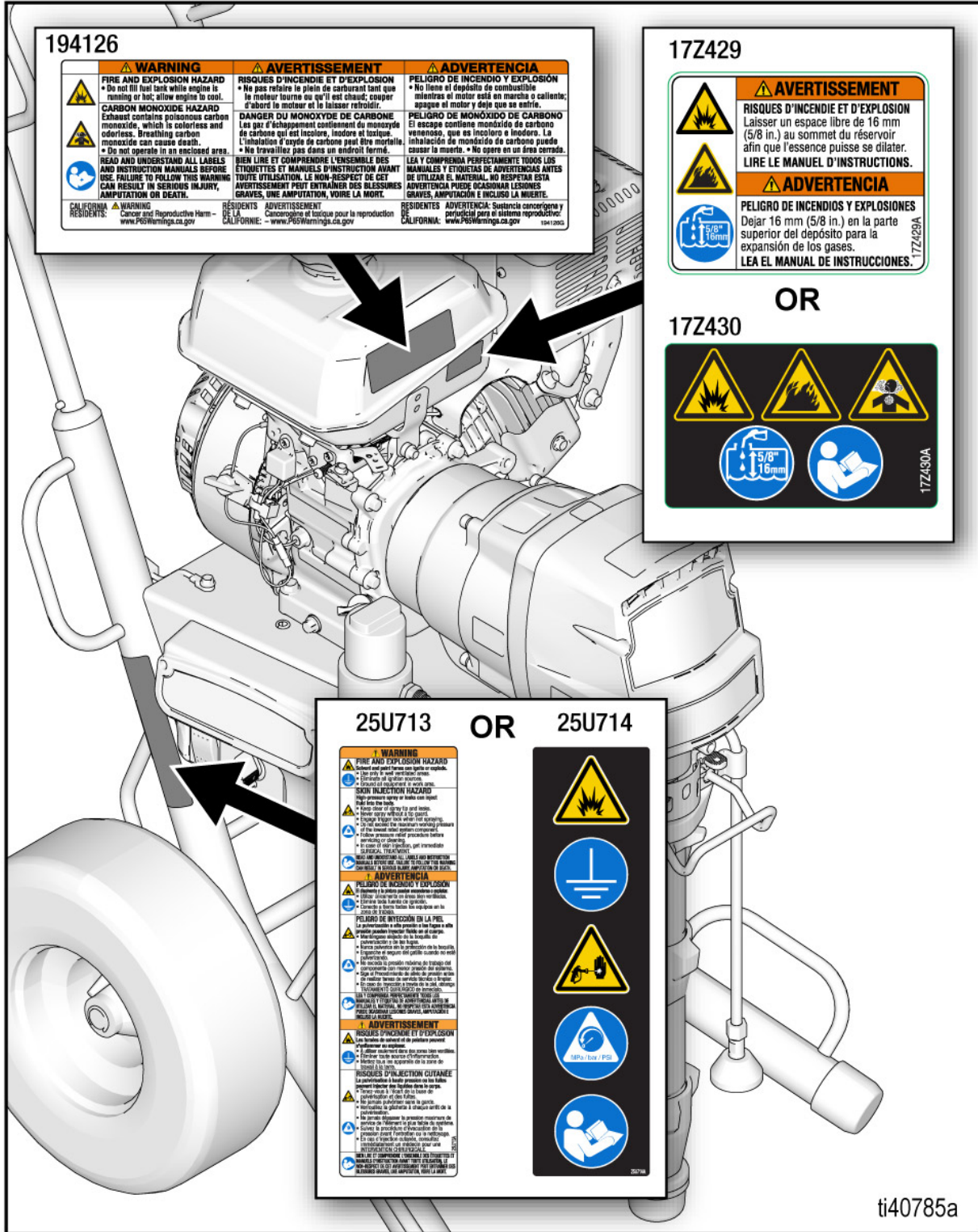


5. Loosen and remove two screws and two nuts. Remove engine.



6. Replace engine and reverse steps 1-4.

Label Location Drawing



Parts Lists

NOTE: Refer to manual 3A6417 for complete parts list. New parts are in bold for the models listed below.

Ref	Part	Description	Qty	Ref	Part	Description	Qty
	25U439	ENGINE, gas, 5.5 HP, Kohler	1	▲	17Z429	LABEL, safety, warning	1
	17E825K	GMAX, 3400 std series			17E827K	GMAX, 3900, std series	
	17E827K	GMAX, 3900, std series			17E831K	GMAX, 5900, std series	
	17E825KE	GMAX, 3400 std series			17E836K	GMAX, 7900, std series	
	17E827KE	GMAX, 3900, std series			17E839K	TexSpray, 5900 HD, std series	
					17E841K	TexSpray, 900 HD, std series	
	25U437	ENGINE, gas, 7.0 HP, Kohler	1	▲	17Z430	LABEL, safety, warning	1
	17E831K	GMAX, 5900, std series			17E825KE	GMAX, 3400, std series	
	17E836K	GMAX, 7900, std series			17E827KE	GMAX, 3900, std series	
	17E839K	TexSpray, 5900 HD, std series			17E831KE	GMAX, 5900, std series	
	17E841K	TexSpray, 900 HD, std series			17E836KE	GMAX, 7900, std series	
					17E839KE	TexSpray, 5900 HD, std series	
					17E841KE	TexSpray, 900 HD, std series	
	25U457	ENGINE, gas, 7.0 HP, Kohler, EU		▲	25U714	LABEL, safety, warning	1
	17E831KE	GMAX, 5900, std series			17E825KE	GMAX, 3400 std series	
	17E836KE	GMAX, 7900, std series			17E827KE	GMAX, 3900, std series	
	17E839KE	TexSpray, 5900 HD, std series			17E831KE	GMAX, 5900, std series	
	17E841KE	TexSpray, 900 HD, std series			17E836KE	GMAX, 7900, std series	
▲	25U713	LABEL, safety, warning	1		17E839KE	TexSpray, 5900 HD, std series	
	17E825K	GMAX, 3400 std series			17E841KE	TexSpray, 900 HD, std series	
	17E827K	GMAX, 3900, std series		▲	194126	LABEL, warning	1
	17E831K	GMAX, 5900, std series					
	17E836K	GMAX, 7900, std series					
	17E839K	TexSpray, 5900 HD, std series					
	17E841K	TexSpray, 900 HD, std series					

▲ Replacement Danger and Warning Labels, Tags and Cards are available at no cost.

California Proposition 65

CALIFORNIA RESIDENTS

▲ **WARNING:** Cancer and reproductive harm –
www.P65warnings.ca.gov.

Graco Standard 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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Graco Information

For the latest information about Graco products, visit www.graco.com.

For patent information, see www.graco.com/patents.

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

All written and visual data contained in this document reflects the latest product information available at the time of publication. Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 3A9018

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Revision A, September 2021