

# GMAX<sup>™</sup> II 3900/5900/5900HD/5900 Convertible/7900 TexSpray 5900HD Convertible/7900HD Airless Sprayers

310892F

## - For Portable Airless Spraying of Architectural Coatings and Paints -

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

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# **Manual Conventions**



Warnings in the instructions usually include a symbol indicating the hazard. Read the general **Warnings** section for additional safety information.

### CAUTION

**CAUTION:** a potentially hazardous situation which, if not avoided, may result in property damage or destruction of equipment.

### Note

Additional helpful information.

# Warning

The following warnings include general safety information for this equipment. Further product specific warnings may be included in the text where applicable.

	<ul> <li>FIRE AND EXPLOSION HAZARD</li> <li>Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion: <ul> <li>Use equipment only in well ventilated area.</li> <li>Do not fill fuel tank while engine is running or hot; shut off engine and let it cool. Fuel is flammable and can ignite or explode if spilled on hot surface.</li> <li>When flammable liquid is sprayed or used for flushing or cleaning, keep sprayer at least 20 feet (6 m) away from explosive vapors.</li> <li>Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).</li> <li>Keep work area free of debris, including solvent, rags and gasoline.</li> <li>Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.</li> <li>Ground equipment and conductive objects in work area. See Grounding instructions.</li> <li>Use only grounded hoses.</li> <li>Hold gun firmly to side of grounded pail when triggering into pail.</li> <li>If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.</li> </ul> </li> </ul>
	<ul> <li>INJECTION HAZARD</li> <li>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.</li> <li>Do not point gun at anyone or at any part of the body.</li> <li>Do not put your hand over the spray tip.</li> <li>Do not stop or deflect leaks with your hand, body, glove, or rag.</li> <li>Do not spray without tip guard and trigger guard installed.</li> <li>Engage trigger lock when not spraying.</li> <li>Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.</li> </ul>
Malsrips	<ul> <li>PRESSURIZED EQUIPMENT HAZARD</li> <li>Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.</li> <li>Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.</li> <li>Tighten all fluid connections before operating the equipment.</li> <li>Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.</li> </ul>
<b>N</b>	<ul> <li>ELECTRIC SHOCK HAZARD</li> <li>Improper grounding, setup, or usage of the system can cause electric shock.</li> <li>Turn off and disconnect power cord before servicing equipment.</li> <li>Use only grounded electrical outlets.</li> <li>Use only 3-wire extension cords.</li> <li>Ensure ground prongs are intact on sprayer and extension cords.</li> </ul>
1	<ul> <li>MOVING PARTS HAZARD</li> <li>Moving parts can pinch or amputate fingers and other body parts.</li> <li>Keep clear of moving parts.</li> <li>Do not operate equipment with protective guards or covers removed.</li> <li>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.</li> </ul>

	<ul> <li>EQUIPMENT MISUSE HAZARD</li> <li>Misuse can cause death or serious injury.</li> <li>Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals.</li> <li>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.</li> <li>Check equipment daily. Repair or replace worn or damaged parts immediately.</li> <li>Do not alter or modify equipment.</li> <li>For professional use only.</li> <li>Use equipment only for its intended purpose. Call your Graco distributor for information.</li> <li>Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.</li> <li>Do not use hoses to pull equipment.</li> <li>Comply with all applicable safety regulations.</li> </ul>
	<b>PRESSURIZED ALUMINUM PARTS HAZARD</b> Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.
	SUCTION HAZARD Never place hands near the pump fluid inlet when pump is operating or pressurized. Powerful suction could cause serious injury.
-4	<b>CARBON MONOXIDE HAZARD</b> Exhaust contains poisonous carbon monoxide, which is colorless and odorless. Breathing carbon mon- oxide can cause death. Do not operate in an enclosed area.
\$	<ul> <li>TOXIC FLUID OR FUMES HAZARD</li> <li>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</li> <li>Read MSDS's to know the specific hazards of the fluids you are using.</li> <li>Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.</li> </ul>
Tatin L.	BURN HAZARD Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.
4	<ul> <li>PERSONAL PROTECTIVE EQUIPMENT</li> <li>You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: <ul> <li>Protective eyewear</li> <li>Clothing and respirator as recommended by the fluid and solvent manufacturer</li> <li>Gloves</li> <li>Hearing protection</li> </ul> </li> </ul>
	<b>RECOIL HAZARD</b> Brace yourself; gun may recoil when triggered and cause you to fall, which could cause serious injury.

### ON OFF 2500-ON ti5738a OFF

# **Component Identification**

1	Engine controls
2	Engine ON/OFF switch
3	Premium Digital Display
4	Pump On/Off Switch
5	Pressure control
6	Prime valve & Filter
7	Suction tube & Inlet Filter
8	Premium AutoClean <sub>2</sub> <sup>™</sup> (not available on all models)
9	Pump
10	Drain hose
11	ProConnect <sup>™</sup>
12	Trigger Lock
13	WatchDog <sup>™</sup> switch

# Setup





### **Convertible Models**

15774a	Release		THE STREE
Change Engine to Motor			•
1. Disconnect engine power cord.	2. Release tension bar.	3. Remove engine; tilt and slide back.	4. Install motor; drop in and push forward.

### **Convertible Models**

15772a	Release	6 00 U5779a	
Change Motor to Engine			
<ol> <li>Look through side vent holes and ensure drive belt is in motor pulley.</li> </ol>	2. Secure motor with ten- sion bar.	<ol> <li>Plug in pressure control power cord.</li> </ol>	

# Startup

MATERIAL E FLUSH ti5788a	ti5789a	OFFF ti5790a	
<ol> <li>Place suction tube and drain tube in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to earth ground.</li> </ol>	2. Turn prime valve down. Turn pressure control counterclockwise to low- est pressure.	3. Set pump switch OFF.	





	15 SEC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		til0167a	F	LUSH	
6.	Increase pressure enough to start pump stroking and allow fluid to circulate for 15 seconds; turn pressure down and turn prime valve horizontal.	7.	Take spray gun trigger safety OFF.	8.	Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure slowly until pump runs smoothly.	Inspect fittings for leaks. Do not stop leaks with your hand or a rag! If leaks occur, turn sprayer OFF immediately. Perform Pressure Relief steps 1 - 3 on page 23. Tighten leaky fittings. Repeat Start Up procedure steps 1 - 5. If no leaks, continue to trigger gun until system is thoroughly flushed. Pro- ceed to step 6.

haterial	FLUSH ti5798a	SwitchTip Seat	ti5801a
		SwitchTip and Guard Ass	embly
9. Place siphon tube in material pail.	<ol> <li>Trigger gun again into flushing fluid pail until material appears. Assemble tip and guard, page 14.</li> </ol>	<ol> <li>Put trigger safety ON. Insert SwitchTip. Insert seat and OneSeal<sup>™</sup>.</li> </ol>	<ol> <li>Screw assembly onto gun. Hand tighten.</li> </ol>

heavy edges	ti5824a	ti10166a ti825a	ti10166a tiszea tiszea ti10167a
		Clearing Tip Clogs	·
<ol> <li>Trigger gun and spray test pattern. Slowly adjust pressure to elimi- nate heavy edges. Use smaller tip size if pres- sure adjustment can not eliminate heavy edges.</li> </ol>	<ol> <li>Hold gun perpendicular, 10-12 in. (25-30 cm) from surface. Spray back and forth. Use strokes overlapped by 50%. Start gun movement before triggering gun and release trigger before stopping gun movement.</li> </ol>	<ol> <li>Release trigger, put trig- ger safety ON. Rotate SwitchTip. Take trigger safety OFF and trigger gun to clear the clog.</li> </ol>	<ol> <li>Put trigger safety ON, return SwitchTip to origi- nal position, take trigger safety OFF and continue spraying.</li> </ol>

### **Premium Operation**

SMARTCONTROL" ti5802a	FLUSH	<b></b> ti5804a	
Main Menu			
Close cover when spraying to protect display.	1. Do startup steps 1 3.	2. Start engine, page 11. Sprayer Model momen- tarily displays, e.g., G5900 = GMAX 5900 Pressure display appears. Dashes appear when pressure is less than 200 psi (14 bar, 1.4 MPa).	<b>Note</b> : Information other than pressure can not be accessed if system pressure is greater than 200 psi (14 bar, 1.4 MPa) or if the pump switch is ON.

## Digital Tracking System<sup>™</sup> (DTS)

ICH ti5805a	I 234 SMARTCONTROL U ti5806a	1234 SMARTCONTROL LIFE 2134 ti6206a	H234 SMARTCONTROL 3:00 g ti5807a	SMARTCONTROL <sup>®</sup>
<ol> <li>Short press DTS button to move to Job Gallons (or Liters x 10).</li> <li>Note: JOB displays briefly, then the number of gallons sprayed above 800 psi (55 bar, 5.5 MPa).</li> </ol>	<ol> <li>Press and hold to reset to zero, or short press DTS button to move to Life- time Gallons (or Liters x 10).</li> </ol>	Note: LIFE displays briefly, then the num- ber of gallons sprayed above 800 psi (55 bar, 5.5 MPa).	<ul> <li>5. Short press DTS button to move to AutoClean2 Timer operation (Man- ual 309955).</li> <li>Note: If the pump is started in the timer mode, the timer counts down to zero and shuts the pump OFF. Use for flushing only.</li> </ul>	6. Short press DTS button to return to Pressure.

# WatchDog<sup>™</sup> Protection System

TCHO ON OFF OFF O	WDON EMPTY ti6224a	WATCHOOG ON OFF OFF OFF	psi SMARTCONTROL psi MPa ti6225a
Pump stops automatically v	vhen material pail is empty.		Change Display Units:
To Activate: 1. Do Startup.	<ol> <li>Turn WatchDog switch ON and WD ON dis- plays.</li> <li>EMPTY displays / flashes and the pump stops when WatchDog protection system detects an empty mate- rial pail.</li> </ol>	3. Turn WatchDog switch OFF. Add material or reprime sprayer. Turn pump switch OFF and ON to reset WatchDog protection system. Turn WatchDog switch back ON to continue to moni- tor material level.	Pressure/Volume: Press and hold (8 seconds) DTS button to change pres- sure units (psi, bar, MPa), to desired units. Volume units (GAL, LTRx10) follow pres- sure units; i.e., psi/GAL and bar or MPa/LTRx10. Continue to press DTS but- ton to cycle from psi to bar to MPa. Release DTS button to select units.

	SMARTCONTROL®	SMARTCONTROL SMART	SERIAL NUM 21341 ti6213a
Secondary Menu - Stored	Data and WatchDog Pump	Protection Modes	
<ol> <li>Do Startup steps 1 3. Pressure must be at zero.</li> </ol>	2. Start engine, page 11. Pressure display appears.	<ol> <li>Press and hold DTS button and turn pump switch ON.</li> <li>Sprayer model momentarily displays, e.g.,</li> <li>G5900 = GMAX II 5900.</li> </ol>	SERIAL NUM scrolls through display and a 3 to 5-digit serial number displays.

COHR ti6215a	SOYA SMARTCONTROL 248592 ti6216a	248592 SMARTCONTROL" B25 ti6217a	2134 SMARTCONTROL TRANS E=03 ti6220a
<ul> <li>Secondary Menu - Stored</li> <li>4. Short press DTS button and date code displays.</li> </ul>	<ul> <li>5. Short press DTS button and part number dis- plays.</li> </ul>	<ul> <li>Protection Modes</li> <li>6. Short press DTS button and engine hours dis- plays.</li> </ul>	<ol> <li>Short press DTS button and LAST ERROR scrolls through display followed by stored error message and error code. This information cycles repeatedly until cleared. See manual 310893 for error code explanations.</li> </ol>

E=03 SMARTCONTROL ELERR E=00 ti6218a Secondary Menu - Stored	E:00 SMARTCONTROL W-DOG ti5819a Data and WatchDog Pump	H-BB5 SMARTCONTROL D2 ti6221a	W-BOG SMARTCONTROL" SO% ti5820a
<ol> <li>Press and hold DTS but- ton until CLEAR ERROR NO ERROR CODE scrolls through the dis- play and then error code E=00 displays. See Manual 310893.</li> </ol>	<ol> <li>Short press DTS button again to move to Watch- Dog mode. You may now short press and do step 10 or long press do step 11.</li> </ol>	<ol> <li>Short press DTS button again and SOFTWARE REV scrolls through dis- play followed by revision level; e.g., 02.</li> </ol>	<ol> <li>Press and hold (8 seconds) DTS button to move to WatchDog Trig- ger % menu. Continue to hold DTS button and WatchDog can be set to trigger at 30, 40, 50 or 60% of current sprayer pressure setting. Release DTS button when desired % is dis- played. Default is 50%.</li> </ol>

SD % SMARTCONTROL®	OFF ti5822a		
		Protection Modes	

<ol> <li>Short press DTS button and software revision displays.</li> </ol>	13. Short press to return to step 3.
	Turn pump switch OFF at any time to exit stored data mode.

## Cleanup



If you suspect spray tip or hose is clogged or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen tip guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Clear hose or tip obstruction.

ti5831a	tis832a FLUSH	HIS833a	ON ti5978a
5. Unscrew bowl, remove filter. Assemble without filter. Clean fliter.	6. Clean filter, guard and SwitchTip in flushing fluid.	<ul> <li>Remove siphon tube set from material and place in flushing fluid.</li> <li>Use water for water base material and appropriate solvent for oil base material.</li> </ul>	<ol> <li>Turn engine ON and start engine.</li> <li>Set pump switch ON.</li> <li>Turn prime valve horizontal.</li> </ol>

MATERIAL ti5890a	FLUSH	20 SEC	ELUSH
9. Hold gun against mate- rial pail. Take trigger safety OFF. Turn pres- sure control up until motor begins to drive pump. Trigger gun until flushing fluid appears.	<ol> <li>Move gun to flushing pail, hold gun against pail, trigger gun to thor- oughly flush system. Release trigger and put trigger safety ON.</li> </ol>	11. Turn prime valve down and allow flushing fluid to circulate for approxi- mately 20 seconds to clean drain tube.	12. Raise siphon tube above flushing fluid and run sprayer for 15 to 30 sec- onds to drain fluid. Turn pump switch OFF. Turn engine OFF.

	USTRE ELUSH	ti5840a	ti5843a FLUSH
<b>Caution:</b> If flushing with water, do not leave water in sprayer. Flush again with mineral spirits, oil or Pump Armor and leave this protec- tive coating in the sprayer to help prevent freezing or corrosion and increase sprayer life.	<ol> <li>Close prime valve. Trig- ger gun into flushing pail to purge fluid from hose. Open prime valve.</li> </ol>	14. Install filter into fil- ter bowl. Make sure plastic center tube is tightened securely. Hand tighten filter bowl. Hand tighten gun handle.	<ul> <li>15. Clean tip, guard and gasket with a soft bristle brush to prevent part failure due to dried materials. Assemble parts and attach loosely onto gun.</li> <li>Wipe sprayer, hose and gun with a rag soaked in water or mineral spirits.</li> </ul>

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