Rev G

ALLPRO® ASM® Mustang 2400

- For portable spray application of architectural paints and coatings -

Model 249307, Series B

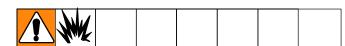
2800 psi (193 bar, 19 MPa) Maximum Working Pressure

Model 246790, Series B

2800 psi (193 bar, 19 MPa) Maximum Working Pressure*

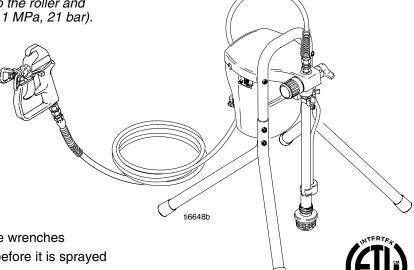
Includes: Gun and Pressure Roller

- 1/4 in. x 25 ft hose
- 9 in. (23 cm) roller frame
- 1/2 in. (13 mm) nap roller cover



Use water based or mineral spirit—type material only. Do not use materials having flash points lower than 70° (21°). For information about your material request MSDS from distributor or retailer.

*The best operating pressure is the lowest pressure that provides an even paint supply to the roller and typically does not exceed 300 psi (2.1 MPa, 21 bar).



Tools Required:

- Two 8-in. (20 cm) adjustable wrenches
- Strainer bag to strain paint before it is sprayed
- Drop cloths, spray shield, and other site preparation supplies
- Paint pail for coating to be sprayed
- Waste pail to catch drainage during priming
- Garden hose used with Zip Flush attachment
- Plastic mallet
- 5/16 in. open-ended wrench

Suggested proper clothing:

- Respirator
- Safety glasses

Specifications

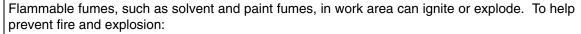
This equipment is not intended for use with flammable or combustible materials used in places such as cabinet shops or other "factory" or fixed locations. If you intend to use this equipment in this type of application, you must comply with NFPA 33 and OSHA requirements for the use of flammable and combustible materials.

The following are general warnings related to the setup, use, grounding, maintenance, and repair of this equipment. Additional, more specific warnings may be found throughout the body of this manual where applicable. Symbols appearing in the body of the manual refer to these general warnings. When these symbols appear throughout the manual, refer back to these pages for a description of the specific hazard.

▲ WARNING

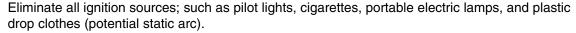


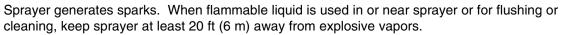
FIRE AND EXPLOSION HAZARD





Use equipment only in well ventilated area.





Keep work area free of debris, including solvent, rags and gasoline.

Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.

Ground equipment and conductive objects in work area. Read Grounding instructions.

If there is static sparking or you feel a shock, stop operating immediately. Do not use equipment until you identify and correct the problem.

Keep a fire extinguisher in the work area.



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.

Do not expose to rain. Store indoors.



PRESSURIZED ALUMINUM PARTS HAZARD

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

WARNING



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 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.

Engage trigger lock when not spraying.

Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking or servicing equipment.



INSTRUCTIONS

EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. Read **Technical Data** in all equipment manuals.

Use fluids and solvents that are compatible with equipment wetted parts. Read **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS from distributor or retailer.

Check equipment daily. Repair or replace worn or damaged parts immediately with genuine ASM replacement parts only.

Do not alter or modify equipment.

Use equipment only for its intended purpose. Call your Graco distributor for information.

Route hoses and cables away from traffic areas, sharp edges, moving parts and hot surfaces.

Do not kink or overbend hoses or use hoses to pull equipment.

Keep children and animals away from work area.

Do not operate the unit when fatigured or under the influence of drugs or alcohol.

Comply with all applicable safety regulations.



TOXIC FLUID HAZARD

Toxic fluid or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

Read MSDS's to know the specific hazards of the fluids you are using.

Store hazardous fluid in approved containers and dispose of it according to all applicable guidelines.



PERSONAL PROTECTIVE EQUIPMENT



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:



Protective eye wear.



Clothing and respirator as recommended by the fluid and solvent manufacturer.

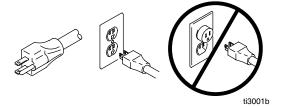
Gloves.

Hearing protection.

Grounding and Electric Requirements



The sprayer must be grounded. Grounding reduces the risk of static and electric shock by providing an escape wire for the electrical current due to static build up or in the event of a short circuit.



<u>The sprayer requires</u> a 120V AC, 60 Hz, 15A circuit with grounding receptacle. Never use an outlet that is not grounded or an adapter.



Do not use the sprayer if the electrical cord has a damaged ground prong. Only use an extension cord with an undamaged, 3–prong plug.

Recommended extension cords for use with this sprayer:

- 25 ft (7.6 m) 18 AWG
- 50 ft (15.2 m) 16 AWG
- 100 ft (30.5 m) 14 AWG
- 150 ft. (45.7 m) 12 AWG

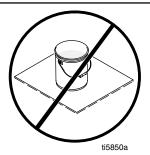
Smaller gauge or longer extension cords may reduce sprayer performance.

<u>Ground sprayer gun</u> through connection to a properly grounded fluid hose and pump.

Ground fluid supply container. Follow local code.

Grounding and Electric Requirements

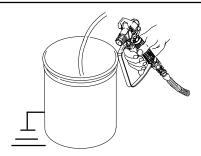
<u>Ground solvent pails used when flushing</u>. Follow local code. Use only conductive, metal pails, placed on a grounded surface such as concrete. Do not place the pail on a non–conductive surface such as paper or cardboard, which interrupts the grounding continuity.



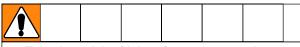
Ground the metal pail by connecting a ground wire to the pail by clamping one end to pail and the other end to ground such as as water pipe.



<u>Maintain grounding continuity</u> when flushing or relieving pressure by holding metal part of spray gun firmly to side of a grounded metal pail, then trigger gun.



Thermal Overload



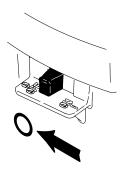
To reduce risk of injury from motor staring unexpectedly when it cools, always turn power switch OFF if motor shuts down.

Motor has a thermal overload switch to shut itself down if overheated.

Pressure Relief Procedure



Follow Pressure Relief Procedure when you stop spraying and before cleaning, checking, servicing or transporting equipment.



1.Turn power switch OFF and unplug power cord.



PRIME

2.Turn Spray-Prime/Drain valve to PRIME/DRAIN to relieve pressure.





3. Turn pressure to lowest setting. Hold metal part of gun firmly to a grounded metal pail. Trigger gun to relieve pressure.



4.Engage trigger lock.

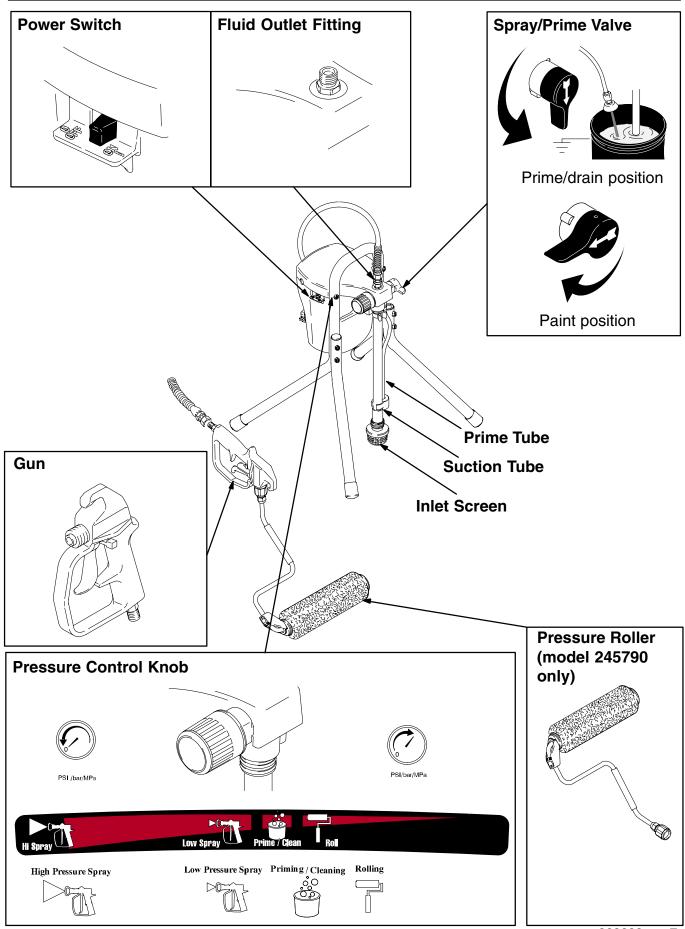


PRIME

Leave Spray-Prime/Drain valve in PRIME/DRAIN position until you are ready to spray again.

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

Component Identification



Setup



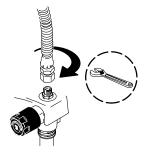
1.Turn power switch OFF.



2. Connect one end of grounded fluid hose to gun. Use a wrench to tighten.

Model 246790: The gun can be used as an airless spray gun for small jobs by attaching a base and tip.

For larger jobs the sprayer can be used for airless spraying by attaching an airless spray gun rated at 2800 psi (193 bar, 19 MPa) Maximum Working Pressure or higher.



3.Connect other end of hose to sprayer fluid outlet fitting. Use a wrench to tighten.

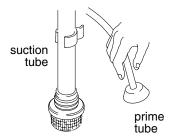


4. Turn pressure control knob all the way left (counterclockwise) to minimum pressure.

Priming – Oil-based or Water-based Materials



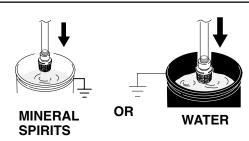
1.Turn Spray/Prime valve to PRIME.



2.Separate prime tube (smaller) from suction tube (larger).

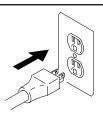


3. Place prime tube in waste pail.



4.If spraying <u>oil-based</u> materials, submerge suction tube in mineral spirits or compatible oil-based cleaning solution.

If spraying <u>water-based</u> materials, submerge suction tube in water.

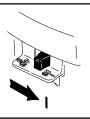


5.Plug sprayer into grounded outlet.



6.Point gun into waste pail.

Priming – Oil-based or Water-based Materials



7.Turn power switch ON.



8. Turn up pressure control knob until pump starts.

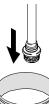




9. Allow fluid to flow out of prime tube, into waste pail, for 30 to 60 seconds.

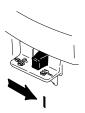


10. Turn power switch OFF.



PAINT

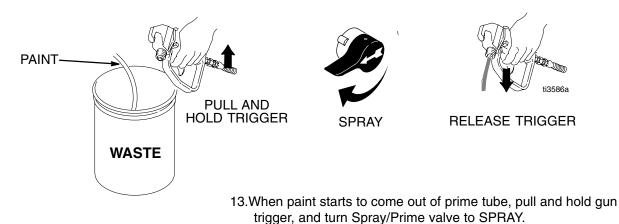
11. Submerge suction tube in paint.



12. Turn power switch ON.

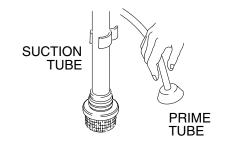
Priming – Oil-based or Water-based Materials





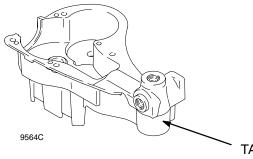
When paint comes out of gun, release trigger.

NOTE: Motor stopping indicates pump and hose are primed with paint.



14. Attach prime tube to suction tube

Pump Check Valves



Excessive shock will fracture or cause other damage to the pump.

Storing pump in water, inadequate flushing, or ingested debris can cause either of the pump's two check valves to malfunction. If the pump does not prime after 30 seconds, try to jar the check balls loose by tapping the inlet valve with a small wrench as the sprayer is on and running.

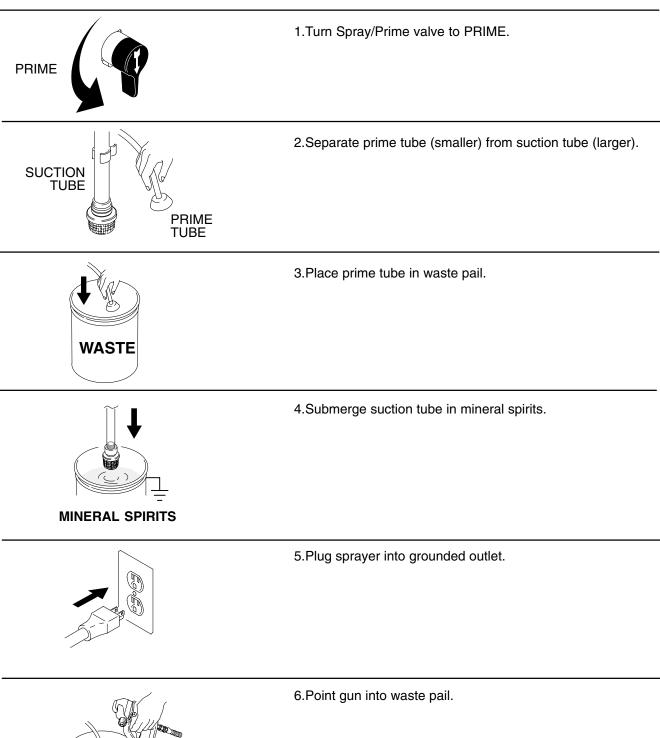
TAP HERE

HINT: To determine if the inlet valve ball is sticking, unscrew inlet valve from pump and check it.

If sprayer continues to cycle (motor and pump run) after you release gun trigger, the pump valves may be obstructed or worn. If they are worn, Valve Repair Kits are available. Consult an authorized service center.

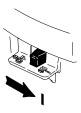
Priming – Preparing to Spray Oil–Based Materials After Spraying Water–Based Materials

NOTE: To spray water–based materials after spraying oil–based materials, follow the procedure outlined below, using water instead of mineral spirits to flush system.





Priming - Preparing to Spray Oil-Based Materials After Spraying Water-Based Materials



7.Turn power switch ON.



8. Turn up pressure control knob until pump starts.



30 to 60 seconds



9. Allow fluid to flow out of prime tube, into waste pail, for 30 to 60 seconds.

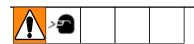


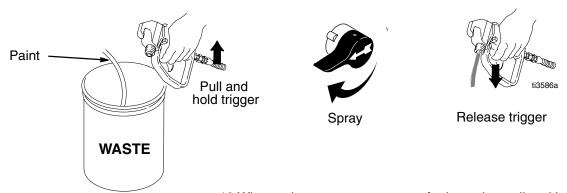
10. Turn power switch OFF.



11. Submerge suction tube in paint.

Priming – Oil–based or Water–based Materials

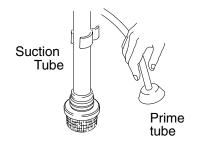




12. When paint starts to come out of prime tube, pull and hold gun trigger, and turn Spray/Prime valve to SPRAY.

When paint comes out of gun, release trigger.

NOTE: Motor stopping indicates pump and hose are primed with paint.



13.Attach prime tube to suction tube

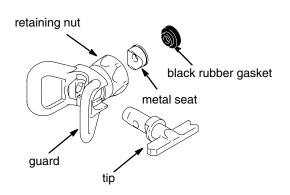
NOTE: If pump does not prime after 30 seconds see Pump Check Valves, page 7

Installing Tip and Base





1. Engage the gun safety latch.



2. Verify tip and guard parts are assembled in order shown.

Tip must be pushed all the way into guard.

Use tip to align seat in guard.





3.Screw tip and guard assembly on gun. Tighten retaining nut.

Unclogging Spray Tip

To avoid fluid splashback:

- Never pull gun trigger when arrow-shaped handle is between SPRAY an UNCLOG positions.
- Tip must be pushed all the way into guard.



UNCLOG position (pull trigger to clear clogged tip)

- 1.To UNCLOG tip obstruction, point arrowshaped handle backward to UNCLOG position.
- 2.Aim gun at piece of scrap or cardboard.
- 3.Pull trigger to clear clog.



SPRAY position (pull trigger to paint)

Point the arrow shaped handle on the spray tip attachment forward to SPRAY.

Selecting a Tip Hole Size

Tips come in a variety of hole sizes for a range of fluids. Your sprayer includes a 0.015 in. (0.38 mm) tip for use in most spraying applications. Use the following table to determine the range of recommended tip hole sizes for each fluid type. If you need a tip other than the one supplied, see the **Uni – Tip Selection Chart** below.

Tip Hole Sizes	Coatings					
(expressed as diameter, based on area of elliptical orifice)	stains	enamels	oil-base primers and paints	interior latex paints	exterior latex paints	
0.011 in. (0.28 mm)	Х					
0.013 in. (0.33 mm)	Х	Х	Х	Х		
0.015 in. (0.38 mm)		Х	Х	Х	Х	

As you spray, the tip wears and enlarges. Starting with a tip hole size smaller than the maximum will allow you to spray within
the rated flow capacity of the sprayer while using the tip you selected.

Uni – Tip Selection Chart

Tip Part No.	Fan Width 12 in. (305 mm) from surface	Hole Size
59–411	8 to 10 in. (203 to 254 mm)	0.011 in. (0.28 mm)
59–511	10 to 12 in. (254 to 305 mm)	0.011 in. (0.28 mm)
59–313	6 to 8 in. (152 to 203 mm)	0.013 in. (0.33 mm)
59–413	8 to 10 in. (203 to 254 mm)	0.013 in. (0.33 mm)
59–415	8 to 10 in. (203 to 254 mm)	0.015 in. (0.38 mm)
59–515	10 to 12 in. (254 to 305 mm)	0.015 in. (0.38 mm)
59–417	8 to 10 in. (203 to 254 mm)	0.017 in. (0.43 mm)
59–517	10 to 12 in. (254 to 305 mm)	0.017 in. (0.43 mm)
59–519	10 to 12 in. (254 to 305 mm)	0.019 in. (0.48 mm)
59–619	12 to 14 in. (305 to 356 mm)	0.019 in. (0.48 mm)

Maximum tip hole size supported by the Zip Spray sprayer is 0.015 in. (0.38 mm).

Using the Right Tip for the Job

Consider the coating and the surface to be sprayed. Make sure you use the best tip hole size for that coating and the best fan width for that surface.

Tip Hole Size

Tip hole size controls the flow rate — the amount of paint that comes out of the gun.

HINTS:

- Generally, use larger tip hole sizes with thicker coatings and smaller tip hole sizes with thinner coatings.
- The maximum tip hole size that a sprayer can support is related to its maximum flow rate. The maximum tip hole size is 0.015 in. (0.38 mm).
- Tips wear with use and need periodic replacement.

Fan Width

Fan width is the size of the spray pattern, which determines the area covered with each stroke. For a given tip hole size, narrower fans deliver a thicker coat, and wider fans deliver a thinner coat.

HINTS:

- Select a fan width best suited for the surface being sprayed.
- Wider fans allow for faster coverage on broad, open surfaces.
- Narrower fans allow for better control on small, confined surfaces.

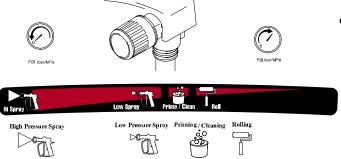
Spray Techniques

This sprayer is set up for most airless spraying applications. Details on tip selection, tip wear, coat thickness, etc. are provided on page 17.



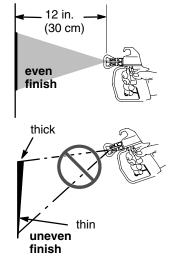
Motor only runs when gun is triggered. Sprayer is designed to stop pumping when gun trigger is released.

Adjusting Pressure



- Align arrow on sprayer with function symbol on Pressure Control knob.
- Turning knob to right (clockwise) increases pressure at gun.
- Turning it left, (counterclockwise) decreases pressure.

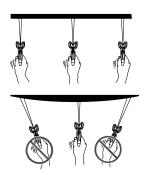
Preventing Excessive Tip Wear



- Spray should be atomized (evenly distributed, no gaps at edges).
- Start at low pressure setting, increase pressure a little at a time until you see a good spray pattern, without tails.

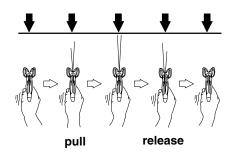
Preventing Excessive Tip Wear





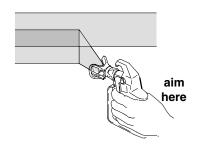
 Flex wrist to keep gun pointed straight. Fanning gun to direct spray at angle causes uneven finish.

Triggering Gun



 Pull trigger after starting stroke, release trigger before end of stroke. Gun must be moving when trigger is pulled and released.

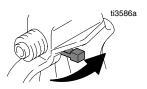
Aiming Gun



 Aim tip of gun at edge bottom of previous stroke to overlap each stroke by half.

Roller Operation

1.Engage the gun safety latch.



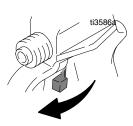


2. Firmly tighten pressure roller to gun.

NOTE: To create a tight seal, you may need to use a wrench to tighten.



3. Turn pressure control knob to roller symbol.



4. Disengage gun safety latch. Trigger gun and roll the surface until paint comes to roller.

NOTE: Trigger the gun briefly only when you need more paint. Determine how often you must trigger the gun to maintain an even paint supply to the roller.



5.Increase pump pressure *only* if triggering gun cannot supply enough paint for your rolling speed.



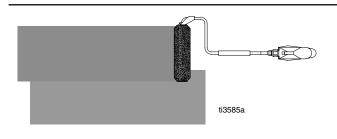
6. Whenever you stop painting, **relieve pressure**, page 6, and elevate roller end of extension tube to prevent paint from draining out.

Flush the pump, gun and pressure roller immediately after each use to prevent paint from drying in the pressure roller and damaging it. **Cleanup** page 24.

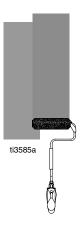
Rolling Techniques



1.Rolling vertically, roll out the letter "M".

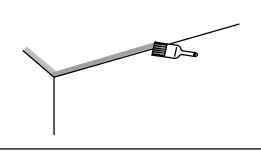


2. Cross roll, horizontally, to spread the paint.



3. Finish with light vertical strokes until the entire area has been evenly covered.

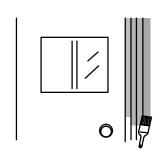
Ceilings, Woodwork and Walls



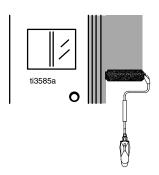
1.**Ceilings:** Using a paint brush, apply a starting row of paint approximately the width of your brush where the walls and ceiling meet.



2. With the roller, apply paint to the ceiling, working the short way of the room and applying as wide a strip as possible.



1.Woodwork & Walls: Using a brush, paint woodwork first. Apply a starting row of paint approximately the width of the paint brush around the woodwork and where the walls meet the ceiling.



2. With the roller, apply paint to the walls, following the Roller Techniques described on page 22.

Cleanup



For Model 246790, leave the roller assembly attached to gun for this procedure.



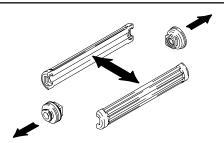
1. Relieve the pressure. Turn power switch OFF, page 6. For spray gun cleanup only, go to step 7, page 26.



- 2.Remove roller cover and diffuser from roller frame as follows:
 - a. Using your thumb, slide clip down and release end caps, diffuser, and roller cover into a pail.

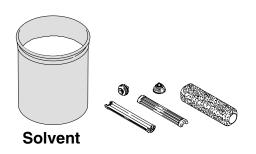


b. Remove roller cover from diffuser.



c. Pull end caps off diffuser.

Cleanup



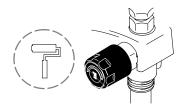
3.Clean roller cover, caps and diffuser with water or a compatible solvent for non-water-based materials.



4.Place roller frame in paint pail. Be sure the holes in the frame are facing inside the paint pail.

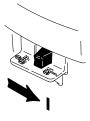


5.Place suction tube in bucket of water or compatible solvent for non-water-based materials. For flushing water-based materials, follow Zip Flush procedure, page 16.



6. Turn pressure control knob to roller symbol.

Cleanup



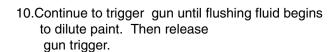
7. Turn power switch ON.



8. Trigger gun.



9.Turn Spray/Prime valve to SPRAY.





11.Model 246790 only, place roller frame in another bucket.

Flush until fluid coming out of roller frame is clear.



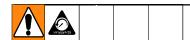






12.**Relieve pressure**, page 6. Turn power switch OFF.

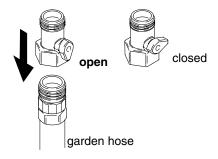
Cleanup – Flushing After Spraying Water–based Paint



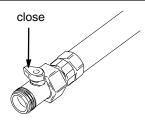


1. Relieve pressure, page 6. Turn power switch OFF.

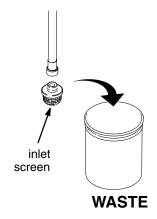
Zip Flush



2. Screw Zip Flush attachment onto garden hose.

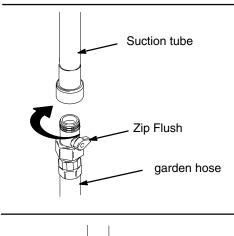


3. Turn lever to close Zip Flush attachment.

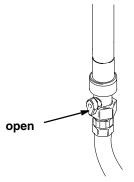


4.Unscrew inlet screen from suction tube and place in waste pail.

Cleanup - Flushing After Spraying Water-based Paint



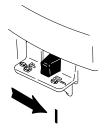
5.Connect garden hose to suction tube with Zip Flush attachment. Leave prime tube in waste pail.



6. Turn lever to open Zip Flush attachment. Turn on garden hose.



7. Align arrow on sprayer with bucket symbol on Pressure Knob.



8.Turn power switch ON.

Cleanup - Flushing After Spraying Water-based Paint

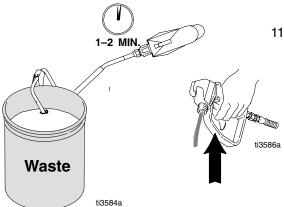


9. Place roller frame in waste pail and trigger gun. Be sure the holes of the roller frame are facing inside the pail.





10. Turn Spray/Prime Valve to SPRAY.



11.Keep gun triggered for 1–2 minutes until somewhat clear water flows out of roller frame.

Cleanup – Flushing After Spraying Water–based Paint



12. Turn Spray/Prime Valve to PRIME.

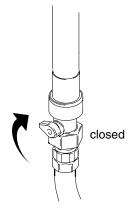




13. Let water flow through sprayer into waste pail for 20 seconds.



14. Turn Power Switch OFF.

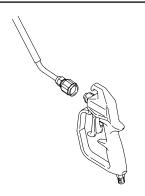


15. Close Zip Flush attachment. Turn off garden hose.

Cleanup – Flushing After Spraying Water–based Paint



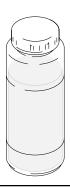
16. Unscrew Zip Flush attachment from suction hose.



17. Model 246790 only, remove roller frame from gun.

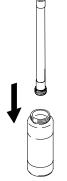
Storage – Filling the Sprayer with Storage Fluid





Always pump storage fluid through the pump system after cleaning. Water left in the sprayer will corrode and ruin pump. Recommended storage fluids: ASM Pump Life, Pump Shield, or Mineral Spirits.





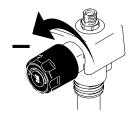




1. Place suction tube in storage fluid bottle and prime tube in waste pail.

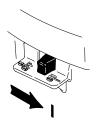


2.Turn Prime/Spray valve to PRIME.

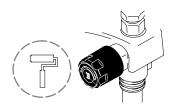


3. Turn Pressure Control knob all the way left (counterclockwise) to minimum pressure.

Storage – Filling the Sprayer with Storage Fluid

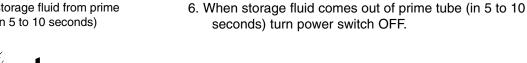


4. Turn power switch ON.



5. Align arrow on sprayer with the roller symbol on the pressure control knob.

watch for storage fluid from prime tube (in 5 to 10 seconds)







7. Turn Spray/Prime valve to SPRAY to keep storage fluid in sprayer during storage.



Troubleshooting

Check everything in this Troubleshooting table before you bring the sprayer to an ASM authorized service center.

PROBLEM	CAUSE	SOLUTION
Pump will not prime. HINT: •Attempt to free check balls	Spray/Prime valve is set at SPRAY.	Turn Spray/Prime valve to PRIME (pointing down).
by tapping side of inlet valve as sprayer is stroking.	Spray/Prime valve is plugged	Clean/replace drain tube as necessary.
Strain paint before spraying and keep sand and debris out.	Inlet screen is clogged or suction tube is not immersed.	Clean debris off inlet screen. Make sure suction tube is at bottom of paint pail.
Thoroughly flush after every paint job. Do not store in water. Use	Inlet valve check ball is stuck.	Remove the tube and place a pencil into the inlet section to dislodge the ball, allowing the pump to prime properly.
Pump Storage Fluid or mineral spirits.	Outlet valve check ball is stuck.	Remove hose from sprayer. Unscrew outlet valve to remove assembly. Gently nudge the ball in the outlet assembly with a screwdriver. Screw the valve back into the pump.
Power switch is on and sprayer is plugged in, but pump does not cycle.	Electrical outlet is not providing power or extension cord is damaged or sprayer power cord is damaged.	Try a different outlet or reset building circuit breaker or replace extension cord/power cord.
	Pressure is set at minimum.	Turn Pressure Control Knob to the right (clockwise) to increase pressure.
	Motor or control is damaged.	Return sprayer to ASM authorized service center.
	Paint is frozen or hardened in	Unplug sprayer from electrical outlet.
	pump.	NOTE: If frozen, do not try to start sprayer until completely thawed, or damage to motor, control board, and/or drivetrain may occur.
		Make sure power switch is OFF. Place sprayer in warm area for several hours, then plug in and turn on. Slowly increase pressure setting to see if motor starts.
		If paint hardened in sprayer, pump packings, valves, drivetrain, or pressure switch may need to be replaced.
Cannot pull gun trigger.	Trigger safety is in SAFETY ON position.	Put trigger safety in SAFETY OFF position.
Gun stops spraying.	Tip is clogged.	Aim gun into waste pail. Squeeze trigger.
Pump cycles but does not build up pressure. (i.e., will	Pump check valves are dirty or damaged.	Clean or replace check valves.
not stop cycling even though gun trigger is released)	Spray/Prime valve is worn or obstructed with debris.	Return sprayer to ASM authorized service center.
	Pump is not primed.	Priming, page 9.
	Inlet screen is clogged or suction tube is not immersed.	Clean debris off inlet screen. Make sure suction tube is at bottom of pail. Reprime sprayer.
	Paint pail is empty.	Refill paint pail and reprime sprayer.
	Suction tube has vacuum air leak.	Tighten suction tube connection. Inspect for cracks or vacuum leaks. If cracked or damaged, replace suction tube.
	Pump check ball is stuck.	See "Pump will not prime" section of Trouble Shooting instructions.

Troubleshooting

SOLUTION

CAUSE

PROBLEM

spraying.

Spray comes out of gun in

two thick streams.

Reversible tip is in CLEAN

position.

	57.552	
Pump cycles but paint only dribbles or spurts when	Pressure is set too low.	Turn Pressure Control Knob to the right (clockwise) to increase pressure.
trigger is pulled.	Tip is clogged.	Clear tip. See your gun manual.
	Spray tip is too large or worn.	Replace tip.
Pressure is set at maximum, but cannot achieve a good	Extension cord is too long or not a heavy enough gauge.	Replace extension cord.
spray pattern.	Tip is too large for sprayer.	Select a smaller tip.
	Tip is worn beyond capability of sprayer.	Replace tip.
	Inlet screen is clogged.	Clean debris off inlet screen.
	Pump valves are worn.	Check for worn pump valves as follows: Prime sprayer with paint. See Priming , page 9. Trigger gun momentarily. When trigger is released, pump should cycle momentarily and stop. If pump continues to cycle, pump valves may be worn. Replace check valves.
When paint is sprayed, it runs	Coat is going on too thick.	Move gun faster.
down the wall or sags.		Choose tip with smaller hole size.
		Choose tip with wider fan.
		Make sure gun is far enough from surface.
When paint is sprayed, coat is	Coat is going on too thin.	Move gun slower.
not covering.		Choose tip with larger hole size.
		Choose tip with narrower fan.
		Make sure gun is close enough to surface.
Motor is hot and runs intermittently. NOTE: This is a thermal	Vent holes in shroud are plugged, or sprayer is covered.	Keep vent holes in shroud clear of obstructions and overspray, and keep sprayer open to air.
overload condition. Motor will automatically shut off due to excessive heat.	Extension cord is too long or not a heavy enough gauge.	Replace extension cord.
See Startup Hazard After Thermal Overload, page 2. Damage can occur if cause is not corrected.	Unregulated electrical generator being used has excessive voltage.	Use electrical generator with a proper voltage regulator. Sprayer requires a 120V AC, 60 Hz, 1500-Watt generator.
	Sprayer was operated at high pressure with small tip, which caused frequent motor starts and excessive heat build up.	Decrease pressure setting, or increase tip size.
Building circuit breaker opens after sprayer operates for 5 to	Too many appliances are plugged in on same circuit.	Free up circuit (unplug things), or use a less busy circuit.
10 minutes. OR Building circuit breaker opens as soon as sprayer is plugged	Extension cord is damaged or too long or not a heavy enough gauge.	Plug in something that you know is working to test extension cord.Replace extension cord.
into outlet, and sprayer is turned on.	Sprayer power cord is damaged.	Check for broken insulation or wires. Replace power cord if damaged.
Fan pattern varies dramatically while spraying or sprayer does not turn on promptly when resuming spraying	Pressure control switch is worn and causing excessive pressure variation.	Return sprayer to ASM authorized service center.

Rotate arrow-shaped handle on tip so it points forward.

Troubleshooting

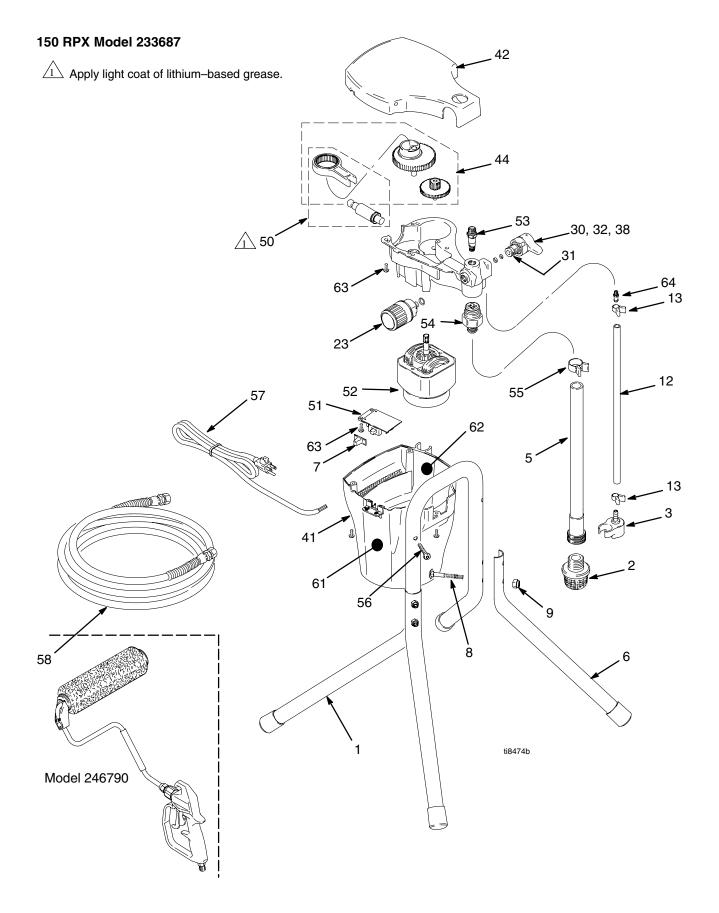
Sprayer does not turn on promptly when resuming spraying.	Pressure control switch is worn and causing excessive pressure variation.	Return sprayer to ASM authorized service center.
Paint is coming out of pressure control switch.	Pressure control switch is worn.	Return sprayer to ASM authorized service center.
Pressure drain actuates automatically, relieving pressure through prime tube.	System is overpressurizing.	Return sprayer to ASM authorized service center.
Paint leaks down outside of pump.	Pump packings are worn.	Replace pump packings.

Parts

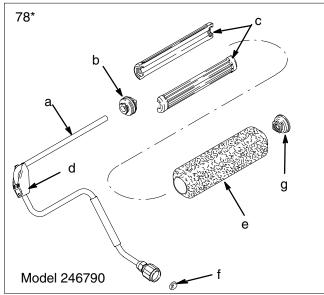
Ref.				Ref.			
No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1	15A680	FRAME (includes 2 #60)	1	44	245149	KIT, gear, (includes two gears	
2	245578	KIT, STRAINER	1			and connecting rod)	1
3	244035	DEFLECTOR, barbed	1	50	245078	KIT, pump repair	1
5	15A473	TUBE, suction	1	51	245079	KIT, control board	1
6	15H772	SUPPORT, frame	2	52	245080	KIT, motor, repair	1
7	196586	COVER, switch	1	53	245076	KIT, outlet valve	1
8	113955	SCREW	4	54	245077	KIT, inlet valve	1
9	102040	NUT, lock	4	55	116295	CLAMP, spring, .88 diameter	1
12	15A475	TUBE, drain	1	56	115478	SCREW, machine; pan head	2
13	115489	CLAMP, drain tube	2	57	196594	CORD, power	1
23	244266	KIT, pressure switch, repair	1	58	245449	HOSE, 1/4 in. x 25 ft	1
30	224807	CAM, drain valve	1	61▲	15A367	LABEL, warning, model 246790	1
31	235014	KIT, valve, repair	1		196932	LABEL, warning, model 249307	1
32	111600	DRIVE PIN, drain valve	1	62▲	15A369	LABEL, warning, model 246790	1
38	187625	HANDLE, drain valve	1		198668	LABEL, warning, model 249307	
41	245448	KIT, motor enclosure (includes		63	15A477	SCREW, machine, pan head	9
		enclosure and 2 warning labels)	1	64	196574	FITTING, drain	1
42	248798	KIT, cover, housing, model 246790		66	103473	STRAP, tie	1
		(includes 3 labels, 2 dowel pins,		69+	115648	VALVE, flushing, shutoff	1
		2 bushings)	1		245423	PUMP LIFE	
	287728	KIT, cover, housing, model 249307			245424	PUMP SHIELD	
		(includes 3 labels, 2 dowel pins,					
		2 bushings)	1	▲ Ro	nlacement Dan	nger and Warning labels, tags and cards a	aro
		• ,		— /10	piacement Dan	igor aria rrairiirig labolo, lago alla calao d	410

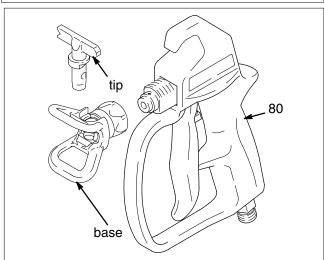
[▲] Replacement Danger and Warning labels, tags and cards are available at no cost.

⁺ Not shown.



Pressure Roller Assembly





Parts List

Ref. No.	Part No.	Description	Qty.
78* a	246818	FRAME, roller includes a, b, c, d, e, FRAME	f 1
b	246277	CAP, end (includes seal, retainer, and	d
		o–ring)	1
С	15B065	CORE, roller	2
d	197106	CLIP, roller	1
е	186678	ROLLER, cover, 9 inch,	
		1/2 in. (13 mm) nap	1
f	115524	GASKET	1
g	245999	CAP, end (includes seal and retainer) 1
80	246802	GUN	1

^{*}Model 246790 Only

Additional Roller Covers

The following pressure roller covers are available at your local distributor:

7722	9 in. (23 cm); 1/2 in. (13 mm) nap
7723	9 in. (23 cm); 3/4 in. (19 mm) nap
7724	9 in. (23 cm); 1-1/4 in. (32 mm) nap

Notes



Technical Data

Maximum fluid working pressure – sprayer	3600 psi (25 MPa, 248 bar)
Sprayer outlet size	
Gun fluid inlet size	1/4 npsm (swivel)
Gun fluid outlet size	
Electric motor	3/8 hp 7A open frame universal
Sprayer weight only	13 lb (6 kg)
Dimensions	
Length	14.9 in (37.8 cm)
Width	
Height	15.6 in (39.6 cm)
Wetted parts sprayer	
stainless steel, brass, ultra-high mo	lecular weight polyethylene (UHMWPE), leather
carbide, nylor	n, aluminum, PVC, polypropylene, fluroelastomer
Inlet Screen on Suction Tube	35 mesh (450 microns)
Maximum material temperature	120°F (50°C)
Electrical power requirement	
*	

^{*} The best operating pressure is the lowest pressure that provides an even paint supply to the roller and typically does not exceed 300 psi (2.1 MPa, 21 bar).

ASM Standard Warranty

ASM warrants all equipment referenced in this document which is manufactured by ASM and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized ASM distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by ASM, ASM will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by ASM to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with ASM's written recommendations.

This warranty does not cover, and ASM 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–ASM component parts. Nor shall ASM be liable for malfunction, damage or wear caused by the incompatibility of ASM equipment with structures, accessories, equipment or materials not supplied by ASM, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by ASM.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized ASM distributor for verification of the claimed defect. If the claimed defect is verified, ASM 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.

ASM'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.

ASM 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 ASM. These items sold, but not manufactured by ASM (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. ASM will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will ASM be liable for indirect, incidental, special or consequential damages resulting from ASM 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 ASM, or otherwise.

FOR ASM BRAZILIAN/CANADIAN/COLUMBIAN CUSTOMERS

The Parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

TO PLACE AN ORDER OR FOR SERVICE, contact your ASM distributor,

or call 1-800-854-4025 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. ASM reserves the right to make changes at any time without notice.

ASM Company, 3500 North 1st Avenue, Sioux Falls, SD 57104 www.asmcompany.com

Written in USA 04/2004 Rev 9/2006