

SERVICE/OPERATION MANUAL



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AIRLESSCO BY DUROTECH CO.

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Introduction



Power Honda 4 HP with Oil Alert® **Pump** "LP" Piston, Triple-Life Pack

"LP" Piston, Triple-Life Packings Electronic pressure control system

Annual Usage up to 2500 gallons

Max Pressure 0-3000 PSI

Max Output .8 GPM, 3 Liters/min.

Max Tip Size .029"

Frame Welded box steel, powder coated

Shipped Complete:

Part # 305-227 SURE STRIPE 4000 with

spray gun and 50' of hose.

INTRODUCTION

The 4000 is the compact piston pump striper that delivers the professional results and range of features needed by pavement striping contractors—and it's an incredible value!

It's based on our proven LP Piston Pump used daily by thousands of painting contractors. The large one-piece piston along with Airlessco's patented triple-life packing system results in reduced maintenance, lower operating costs, and longer equipment life. A clutch actuated .8 gpm paint system features an electronic pressure control system.

The 4000 is powered by a dependable 4 hp Honda GX series commercial OHV 4-cycle engine. It's built on a small, compact frame, that's easy to use, and quick to clean. Designed-in balance & light weight make it ideal for one-man operation. Foot operated parking brake holds machine on inclines.

Our 008 Silver Contractor spray gun can spray wtih an up to .029" tip. It mounts on any corner, and has a quick release for painting parking curbs or pavement using stencils. It features a tungsten carbide ball and seat, the "No Drips" REV-GUARD $^{\text{TM}}$ base, and our patented REV-TIP $^{\text{TM}}$ reversible tips that clear clogs literally in a snap.



HANDLE THIS UNIT AS YOU WOULD A LOADED FIREARM!! High pressure spray can cause extremely serious injury. OBSERVE ALL WARNINGS!

Before operating this unit, read and follow all safety warnings and instructions related to the usage of this equipment. READ, LEARN, and FOLLOW the Pressure Relief Procedure on Page 9 and understand all warnings on pages 2 thru 6.

All Service Procedures to be performed by an Authorized Airlessco Service Center ONLY. NO MODIFICATIONS or alterations of any Airlessco Equipment or part is allowed.

TOXIC FLUID HAZARD

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in eyes or on skin, inhaled or swallowed. Know the hazards of the fluid you are using. Store & dispose of hazardous fluids according to manufacturer, local, state & national guidelines. ALWAYS wear protective eye wear, gloves, clothing and respirator as recommended by fluid manufacturer.

ALWAYS INSPECT SPRAYING AREA

- ALWAYS keep spraying area free from obstructions.
- ALWAYS make sure area has good ventilation to safely remove vapors and mists.
- NEVER keep flammable material in spraying area.
- **NEVER** spray in vicinity of open flame or other sources of ignition.

SPRAY GUN SAFETY

- ALWAYS set safety lock on the gun in "LOCKED" position when not in use and before servicing or cleaning.
- **NEVER** remove or modify any part of the gun.
- ALWAYS REMOVE SPRAY TIP when cleaning. Flush unit with LOWEST POSSIBLE PRESSURE.
- ALWAYS check operation of all gun safety devices before each use.
- Be very careful when removing the spray tip or hose from gun. A plugged line contains fluid under pressure. If the tip or line is plugged, follow the PRESSURE RELIEF PROCEDURE as outlined on page 9.

TIP GUARD

ALWAYS have the tip guard in place on the spray gun while spraying. The tip guard alerts you to the injection hazard and helps prevent accidentally placing your fingers or any part of your body close to the spray tip.

SPRAY TIP SAFETY

Use extreme caution when cleaning or changing spray tips. If the spray tip clogs while spraying, engage the gun safety latch immediately.

- ALWAYS follow the PRESSURE RELIEF PROCEDURE and then remove the spray tip to clean it.
- **NEVER** wipe off build up around the spray tip.
- ALWAYS remove tip & tip guard to clean AFTER pump is turned off and the pressure is relieved by following the PRESSURE RELIEF PROCEDURE

KEEP CLEAR OF MOVING PARTS

Keep clear of moving parts when starting or operating the sprayer. Do not put your fingers into any openings to avoid amputation by moving parts or burns from hot parts.

Precaution is the best insurance against an accident.

When starting the engine, maintain a safe distance from moving parts of the equipment.

Before adjusting or servicing any mechanical part of the sprayer, follow the PRESSURE RELIEF PROCEDURE, and remove the ignition cable from the spark plug to prevent accidental starting of the sprayer.

LABELING

Keep all labels on the unit clean and readable. Replacement labels are available from the manufacturer.

HIGH PRESSURE SPRAY CAN CAUSE EXTREMELY SERIOUS INJURY. OBSERVE ALL WARNINGS. THIS SPRAYER IS FOR PROFESSIONAL USE ONLY.

INJECTION HAZARD

Fluids under high pressure from spray or leaks can penetrate the skin and cause extremely serious injury, including the need for amputation.

- NEVER point the spray gun at anyone or any part of the body.
- **NEVER** put hands or fingers over the spray tip. Do not use a rag or any other material over your fingers. Paint will penetrate through material and into the hand.
- **NEVER** try to stop or deflect leaks with your hand or body.
- NEVER try to "blow back" paint, this is not an air spray sprayer.
- ALWAYS have gun tip guard in place when spraying.
- ALWAYS lock gun trigger when you stop spraying.
- ALWAYS remove tip from the gun to clean it.
- ALWAYS follow the PRESSURE RELIEF PROCEDURE, as shown on page 9, before cleaning or removing the spray tip or servicing any system equipment.
- ALWAYS Be sure equipment safety devices are operating properly before each use.
- ALWAYS tighten all fluid connections before each use.

MEDICAL TREATMENT

If any fluid appears to penetrate your skin, get EMERGENCY CARE AT ONCE. DO NOT TREAT AS A SIMPLE CUT.

- * Go to an emergency room immediately.
- * Tell the doctor you suspect an injection injury.
- * Tell him what kind of material you were spraying with and have him read NOTE TO PHYSICIAN.

MEDICAL ALERT - Airless Spray Wounds

If any fluid appears to penetrate your skin, get EMERGENCY MEDICAL CARE AT ONCE. DO NOT TREAT AS A SIMPLE CUT. Tell the doctor exactly what fluid was injected. Have him read the following "NOTE TO PHYSICIAN".

NOTE TO PHYSICIAN:

Injection in the skin is a traumatic injury.
It is important to treat the injury surgically
as soon as possible. DO NOT DELAY treatment
to research toxicity. Toxicity is a concern with
some exotic coatings injected directly into the
bloodstream. Consultation with a plastic surgeon or
reconstructive hand surgeon may be advisable.

GENERAL PRECAUTIONS

- NEVER alter equipment in any manner.
- *NEVER* spray highly flammable materials.
- *NEVER* smoke while in spraying area.
- NEVER use around children.
- **NEVER** allow another person to use sprayer unless they are thoroughly instructed on safety use and given this operators manual to read.
- ALWAYS wear a spray mask, gloves and protective eye wear while spraying.
- ALWAYS ensure fire extinguishing equipment is readily available and properly maintained.

NEVER LEAVE SPRAYER UNATTENDED WITH PRESSURE IN THE SYSTEM. FOLLOW PRESSURE RELIEF PROCEDURES ON PAGE 9.

GROUNDING

Ground the sprayer and other components in the system to reduce the risk of static sparking, fire or explosion which can result in serious bodily injury and property damage.

Always ground all of these components:

- **Sprayer:** Be sure grounding chain (supplied) is in contact with the ground.
- Fluid Hose: use only grounded hoses.
- Spray gun or dispensing valve: grounding is obtained through connection to a properly grounded fluid hose and pump.
- Object being sprayed: according to your local code.
- All solvent pails used when flushing should only be metal pails which are conductive.

Once each week, check electrical resistance of hose (when using multiple hose assemblies, check overall resistance of un-pressurized hose must not exceed 29 megohms (max) for any coupled length or combination of hose lengths. If hose exceeds these limits, replace it immediately.

Never exceed 500 Ft. (150 m.) overall combined hose length to assure electrical continuity.

AVOID COMPONENT RUPTURE

This sprayer operates at 3000 psi (205 bar). Always be sure that all components and accessories have a maximum working pressure of at least 3000 psi to avoid rupture which can result in serious bodily injury including injection and property damage.

- **NEVER** leave a pressurized sprayer unattended to avoid accidental operation of it which could result in serious bodily injury.
- **ALWAYS** follow the PRESSURE RELIEF PROCEDURE whenever you stop spraying and before adjusting, removing or repairing any part of the sprayer.
- **NEVER** alter or modify any part of the equipment to avoid possible component rupture which could result in serious bodily injury and property damage.
- **NEVER** use weak, damaged or non-conductive paint hoses. Do not allow kinking or crushing of hoses or allow it to vibrate against rough, sharp or hot surfaces. Before each use, check hoses for damage and wear and ensure all fluid connections are secure.
- *REPLACE* any damaged hose. NEVER use tape or any device to mend the hose.
- *NEVER* attempt to stop any leakage in the line or fittings with your hand or any part of the body. Turn off the unit and release pressure by following PRESSURE RELIEF PROCEDURE on page 9,.
- ALWAYS use approved high pressure fittings and replacement parts.
- ALWAYS ensure fire extinguishing equipment is readily available and properly maintained.

WARNING

Do not use halogenated solvents in this system. Most airless guns have aluminum parts and may explode. Cleaning agents, coatings, paints or adhesives may contain halogenated hydrocarbon solvents. DON'T TAKE CHANCES! Consult your material suppliers to be sure.

Some of the most common of these solvents are:

Carbontetrachloride, Chlorobenzene, Dichloroethane, Dichloroethyl Ether,

Ethylbromide, Ethylchloride, Tethrachloethane.

Alternate valves & guns are available if you need to use these solvents.

FLUSHING

Reduce risk of injection injury, static sparking or splashing by following the specific cleaning procedure on page 5.

- *ALWAYS* follow the PRESSURE RELIEF PROCEDURE on page 9.
- **ALWAYS** remove the spray tip before flushing. Hold a metal part of the gun firmly to the side of a metal pail and use the lowest possible fluid pressure during flushing.
- **NEVER** use cleaning solvents with flash points below 140° F. Some of these are: acetone, benzene, ether, gasoline and naphtha. Consult your supplier to be sure.
- *NEVER* smoke in the spraying/cleaning area.

PREVENT STATIC SPARKING FIRE/ EXPLOSIONS

ALWAYS be sure all equipment and objects being sprayed are properly grounded. Always ground sprayer, paint bucket and object being sprayed. See "grounding" on page 4 for detailed grounding information.

Vapors created when spraying can be ignited by sparks. To reduce the risk of fire, always locate the sprayer at least 20 feet (6 m.) away from the spray area. Do not plug in or unplug any electrical cords in the spray area, this can create sparks when there is any chance of igniting vapors still in the air. Follow the coating & solvent manufacturers safety warnings and precautions.

Use only conductive fluid hoses for airless applications. Be sure gun is grounded through hose connections. Check ground continuity in hose & equipment. Overall (end to end) resistance of un-pressurized hose must not exceed 29 megohms for any coupled length or combination of hose length. Use only high pressure airless hoses with static wire approved for 3000 psi.

Important: United States Government safety standards have been adopted under the Occupational Safety & Health Act. These standards, particularly the General Standards, Part 1910, & the Construction Standards, part 1926 should be consulted.

WHEN SPRAYING & CLEANING WITH FLAMMABLE PAINTS OR PAINT THINNERS:

- When spraying with flammable liquids, unit must be located a minimum of 25 feet away from spraying area in a well ventilated area. Ventilation must be sufficient enough to prevent the accumulation of vapors.
- To eliminate electrostatic discharge, ground the spray unit, paint bucket and spraying object. Use only high pressure airless hoses approved for 3000 psi which is conductive.
- Remove spray tip before cleaning gun and hose. Make contact of gun with bucket and spray without the tip in a well ventilated area, into the grounded steel bucket.
- Never use high pressure in the cleaning process. USE MINIMUM PRESSURE.
- Do not smoke in spraying/cleaning area.

GAS ENGINE PRECAUTIONS

WARNING

Gasoline & its vapors are extremely flammable & explosive.

Fire or explosion can cause severe burns or death.

WHEN ADDING FUEL

- Turn engine OFF and let engine cool at least 2 minutes before removing gas cap.
- Fill fuel tank outdoors or in well ventilated area.
- Do not overfill fuel tank. Fill tank to approximately 1½ inches below top of neck to allow for fuel expansion.
- Keep gasoline away from sparks, open flames, pilot lights, heat and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.

WHEN STARTING ENGINE

- Make sure spark plug, muffler, fuel cap and air cleaner are in place.
- Do not crank engine with spark plug removed.
- If fuel spills, wait until it evaporates before starting engine.
- If engine floods, set choke to OPEN/RUN position, place throttle in FAST and crank until engine starts.

WHEN OPERATING EQUIPMENT

- Do not tip engine or equipment at angle which causes gasoline to spill.
- Do not choke carburetor to stop engine.

WHEN TRANSPORTING EQUIPMENT

Transport with fuel tank EMPTY or with fuel shut-off valve OFF

WHEN STORING GASOLINE OR EQUIPMENT WITH FUEL IN TANK

• Store away from furnaces, stoves, water heaters and other appliances that have pilot lights or other ignition source. They can ignite gasoline vapors.

WARNING

Starting engine creates sparking.

Sparking can ignite nearby flammable gases.

Explosion and fire could result.

- If there is natural or LP gas leakage in area, do not start engine.
- Do not use pressurized starting fluids because vapors are flammable.

WARNING

Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go.

Broken bones, fractures, bruises or sprains could result.

- When starting engine, pull cord slowly until resistance is felt, then pull rapidly.
- Remove all external equipment/engine loads before starting engine.
- Direct coupled equipment components such as, but not limited to, blades, impellers, pulleys, sprockets, etc. must be securely attached.

WARNING

Rotating parts can contact or entangle hands, feet, hair, clothing or accessories.

Traumatic amputation or severe laceration can result.

- Operate equipment with guards in place.
- Keep hands and feet away from rotating parts.
- Tie up long hair and remove jewelry.
- Do not wear loose fitting clothing, dangling drawstrings or items that could become caught.

WARNING

Engines give off carbon monoxide, an odorless, colorless, poison gas.

Breathing carbon monoxide can cause nausea, fainting or death.

- Start and run engine outdoors.
- Do not start or run engine in enclosed area, even if doors or windows are open.

WARNING

Running engines produce heat. Engine parts, especially mufflers, become extremely hot.

Severe thermal burns can occur on contact.

Combustible debris, such as leaves, grass, brush, etc. can catch fire.

- Allow muffler, engine cylinder and fins to cool before touching.
- Remove accumulated combustibles from muffler area and cylinder area.
- Install and maintain in working order a spark arrester before using equipment on forest covered, grass covered and brush covered unimproved land. The state of California requires this (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal land.

WARNING

Unintentional sparking can result in fire or electric shock.

Unintentional start up can result in entanglement, traumatic amputation, or lacerations.

BEFORE PERFORMING ADJUSTMENTS OR REPAIRS

- Disconnect spark plug wire and keep it away from spark plug.
- Disconnect battery at negative terminal (only engines with electric start).

WHEN TESTING FOR SPARK

- Use approved spark plug tester.
- Do not check for spark with spark plug removal.

Flushing

IMPORTANT: Read Prior to Using Your Sprayer

1. New Sprayer

Your Airlessco unit was factory tested in an antifreeze solution which was left in the pump. Before using oil-base paint, flush with mineral spirits only. Before using water-base paint flush with soapy water, then do a clean water flush.

2. Changing Colors

Flush with a compatible solvent such as mineral spirits or water.

3. Changing from water-base to oil-base paint

Flush with soapy water, then mineral spirits.

4. Changing from oil-base to water-base paint

Flush with mineral spirits, followed by soapy water, then do a clean water flush.

5. Storage

Oil-base paint: Flush with mineral spirits.

Water-base paint: Flush with water, then mineral spirits and leave the pump, hose and gun filled with mineral spirits. For longer storage (and in areas where there is the potential for freezing temperatures), use mixture of mineral spirits and motor oil (half & half). Shut off the sprayer, follow Pressure Relief Procedure on page 9 to relieve pressure and make sure prime valve is left OPEN.

6. Start up after storage

Before using water-base paint, flush with soapy water and then do a clean water flush. When using oil-base paint, flush out the mineral spirits with the material to be sprayed.

Daily Maintenance

1. Keep the displacement pump packing nut/wet cup lubricated with Airlessco TSO (Throat Seal Oil) at all times. The TSO helps protect the rod and the packings.





Airlessco Throat Seal Oil 6 ounce bottle Part # 188-187 1 quart bottle Part # 188-392

2. Inspect the packing nut daily. Your pump has Airlessco's patented Triple Life Packing System.

Packing life will be extended a minimum of three times if the following "Packing Adjustment" procedure is followed:

If seepage of paint into the packing nut and/or movement of the piston upward is found (while not spraying), the packing nut should be tightened enough to stop leakage only, but not any tighter.

Overtightening will damage the packings and reduce the packing life.



3. Check suction nut daily.

Pressure Relief Procedure



IMPORTANT!

To avoid possible serious body injury, always follow this procedure whenever the sprayer is shut off, when checking it, when installing, changing or cleaning tips, whenever you stop spraying, or when you are instructed to relieve the pressure.

- **1.** Engage the gun safety latch. Refer to the separate instruction manual provided with your gun on its safety features and how to engage safety latch.
- **2.** Turn the unit off.
- **3.** Disengage the gun safety latch and trigger the gun to relieve residual fluid pressure.

Hold metal part of the gun in contact with grounded metal pail. **USE MINIMUM PRESSURE!**



4. Turn Prime/Pressure Relief Valve (PR Valve) to the open (priming) position to relieve residual fluid pressure.

There will be a wider gap between valve handle and cam body when in open position. In the closed position there is only a very slight gap.

Note: The valve handle can move both clockwise and counter clockwise and can face different directions.

5. Re-engage gun safety latch and _ close Prime/Pressure Relief Valve.

If the SPRAY TIP OR HOSE IS CLOGGED, follow Step 1 through 5 above. Expect paint splashing into the bucket while relieving pressure during Step 4.

If you suspect that pressure hasn't been relieved due to damaged Prime/Pressure Relief Valve or other reason, engage the gun safety latch and take your unit to an authorized Airlessco Service Center.

Starting Up

1. Learn the Functions of the Controls.

PRIME/PRESSURE (PR) RELIEF VALVE is used to prime pump and to relieve pressure from gun, hose and tip.

Prime/Pressure Relief Valve (Prime/PR Valve)
Used to relieve pressure from gun, hose & tip and to prime the unit when in OPEN position. (It is in open position when there is a wider gap between valve handle and cam body)

When in CLOSED position, there is only a very slight gap between handle & body.
When closed the system is pressurized. Handle as a loaded firearm!

PRESSURE CONTROL KNOB is used to adjust pressure. Turn clockwise (CW) to increase pressure and counterclockwise (CCW) to decrease pressure.

4. Adjusting the Pressure

- a. Turn the Pressure Control Knob Clockwise to increase pressure and counterclockwise to decrease pressure.
- **b.** Always use the lowest pressure necessary to completely atomize the material.

Note: Operating the sprayer at higher pressure than needed, wastes material, causes early tip wear, and shortens sprayer life.

- **c.** If more coverage is needed, use a larger tip rather than increasing the pressure.
- **d.** Check the spray pattern. The tip size and angle determines the pattern width and flow rate.

2. Prepare the Material

- a. Prepare the material according to the material manufacturer's recommendations.
- **b.** Place the suction tube into the material container.

3. Starting the Sprayer

- **a.** Prime/PR Valve must be "OPEN" in the priming position.
- **b.** When you have ensured that the gun safety latch is engaged, attach tip and safety guard.
- **c.** Turn the engien ON/OFF switch to the "ON" position.
- **d.** Turn Pressure Control Knob clockwise to prime the pump.
- **e.** After the pump is primed, turn Prime/PR Valve to the "Closed" position.
- **f.** Turn Pressure Control Knob to the desired spray pressure.
- **g.** Disengage the gun safety latch and you are ready to spray.

Starting Up

WARNING

Follow the "Pressure Relief Procedure".

To reduce the risk of injection, never hold your hand, body, fingers or hand in a rag in front of the spray tip when cleaning or checking for a cleared tip. Always point the gun toward the ground or into a waste container when checking to see if the tip is cleared or when using a self-cleaning tip.

WARNING

When you spray into the paint bucket, always use the lowest spray pressure and maintain firm metal to metal contact between gun and container.

WARNING

To stop the unit in an emergency, turn the engine off. Then relieve the fluid pressure in the pump and hose as instructed in the Pressure Relief Procedure.

Avoiding Tip Clogs

There is an easy way to keep the outside of the tip clean from material build up:

Every time you stop spraying, for even a minute, lock the gun and submerge it into a small bucket of thinner suitable for the material sprayed.

Thinner will dissolve the buildup of paint on the outside of tip, tip guard and gun much more effectively if the paint doesn't have time to dry out completely.

WARNING

Be sure to relieve pressure in the pump after filling with Airlessco Pump Conditioner.

5. When Shutting off the Sprayer

- **a.** Whenever you stop spraying, even for a short break, follow the "Pressure Relief Procedure".
- **b.** Clean the tip & gun as recommended in the seperate Gun Manual supplied with the gun/
- c. Flush the sprayer at the end of each work day, if the material you are spraying is water-based, or if it could harden in the sprayer overnight. See "Flushing". Use a compatible solvent to flush, then fill the pump and hoses with an oil based solvent such as mineral spirits.
- **d.** For long term shutdown or storage, refer to the "Flushing" section of this manual.

Striping Operation

1. Choose handle location

The choices are, installing the handle opposite of the single wheel assembly (standard set up) or placing the handle directly over the single wheel assembly. The handle location is really a matter of personal preference, however having the handle away from the single wheel assembly allows for easier loading/unloading from a van.

2. Choose the gun arm position

There are multiple holes in the frame for mounting the gun arm. In a standard set up (handle away from the single wheel assembly), the gun arm would be mounted in one of the two mounting holes near the single wheel. This allows for an easier visual check for straight line striping and for basic arc striping. The mounting holes under the handle are usually used when the handle has been placed over the single wheel. Experiment with different combinations to find the set up that you prefer.

3. Setting up the gun

- **a.** Ensure that a striping tips is in the guns.
- **b.** Pick a tip size for the desired line width. **Example**: a 217ST tip for a four inch line.
- **c.** Place gun into the gun holder, so that the top of the taper on the gun handle is flush with the edge of the gun holder.
- d. Set gun height for the desired line width. Adjust height by loosening the small black handle on the gun holder assembly and slide the gun arm to the correct height. Now tighten the handle. This will require some experimentation to find the correct height. It is suggested that tape, or some other method is used to mark the height of commonly used settings.
- **e.** Attach the swivel heads to the gun if painting curbs or wide stripes.
- **f.** Angle the gun slightly forward. This allows the spray pressure from the gun to help blow dirt and debris out of the path of the new stripe.

4. Cable Tension Adjustment

Once the handle and gun arm assemblies are set up to the preferred position, pressurize the unit and trigger the gun to ensure that they activate and release correctly. If not, adjust the cable tension as follows:

- **a.** Locate the adjustment knobs on the base of the gun trigger, where the cable connects to the gun trigger assembly.
- **b.** Loose the locking nut & move the adjusting screw until the slack has been removed from the cable.
- **c.** Tighten locking nut and retest gun triggers for proper function.

NOTE: There is additional cable adjustment where the cable attaches to the gun holder assembly. Use only if the gun trigger adjustment is insufficient.

5. Miscellaneous Operations

- **a. CURBS:** Adjust gun to desired height and turn swivel head towards curb.
- **b. WIDE STRIPES:** Install wider fan striping tips and raise the gun height to achieve the desired width line.
- **c. STENCILS:** Install standard spray tip. Remove gun from the gun holder and spray out the stencils.
- **d. STANDARD PAINTING:** Same as stencils, but use additional paint hose as required.



Inserting REV-TIP[™] & seal into REV-GUARD[™]

Striping Tip Guide

| Rev-Tip for Striping Fan Width (6" from surface) | | | STR | IPING | TIP | - ORI | FICE | SIZE | (Inches) | | | |
|---|------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| in (mm) | .009 | .011 | .013 | .015 | .017 | .019 | .021 | .023 | .025 | .027 | .031 | .035 |
| 1-2 25-51 | | | 113ST | 115ST | 117ST | 119ST | | | | | | |
| 2-4 51-102 | | | | 215ST | 217ST | 219ST | 221ST | | | | | |
| 4-6 102-152 | | | | 315ST | 317ST | 319ST | 321ST | 323ST | | | | |
| 6-8 152-203 | | | | 415ST | 417ST | 419ST | 421ST | | | | | |
| Striping Paint | | | Oil Base | Oil Base | Latex | Latex |
| Water Flow Rate (gpm) (water @ 2000psi, 138 bar) (lpm) | | .12 .49 | .18 .69 | .24 .91 | .31 1.17 | .38 1.47 | .47 1.79 | .57 2.15 | .67 2.54 | .77 2.96 | 1.03 3.90 | 1.31 4.98 |
| Paint Flow Rate (gpm) (latex paint @ 2000psi, 138 bar/1.36 spec. gr.) (lpm) | | .10 .38 | .15 .57 | .21 .79 | .27 1.02 | .33 1.25 | .40 1.51 | .49 1.85 | .58 2.20 | .66 2.50 | .88 3.33 | 1.12 4.24 |
| Pump Minimum (gpm) Output* (lpm) 'Pump will support tip wom to next larger size. | | .25 1.0 | .25 1.0 | .33 1.25 | .40 1.5 | .50 1.9 | .60 2.3 | .75 2.8 | .88 3.3 | 1.0 3.8 | 1.25 4.7 | 1.5 5.7 |

REV-TIP for Striping P.N. 562-xxxST

Includes Rev-Tip™, Metal Seal & O-Ring Seal.



562-215ST
Striping REV-TIP[™] Orifice Size



REV-GUARD™

Super Compact P.N. 561-001

11/16-16 "F" Thread. Fits: Airlessco, and some ASM, Wagner, and Campbell Hausfeld.

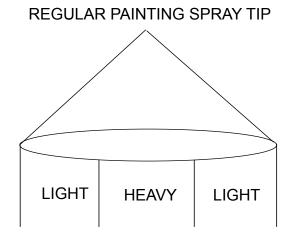
P.N. 561-002 7/8-14 "G" Thread.

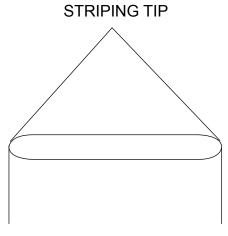
Fits some: Graco, Wagner, Titan, Airlessco.



Striping Tips (orange handle) should not be used for regular spraying. They are designed for a single pass application, while spray tips (black handle) are designed for the 1/3 overlap technique used for spray painting.

Spray Tip Replacement: During use high pressure will cause the orifice to grow larger and more round. This destroys the efficiency of the pattern, wasting your material. It can also leave tailing or two heavy lines on the outside of the pattern.





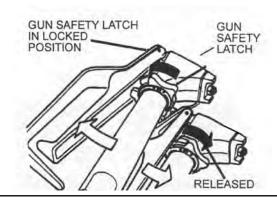
Spray Gun Operation

SPRAY GUN

Attach spray gun to airless unit and tighten fittings securely. Set the gun safety latch. (Also may be called gun safety lock, or trigger lock)

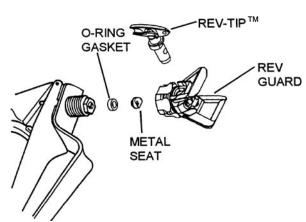
* The gun safety latch should always be set when the gun is not being triggered.

Read all warnings and safety precautions supplied with the spray gun and in product manual.



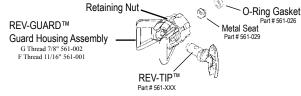
MAJOR COMPONENTS OF SPRAY GUN & REVERSIBLE REV-TIP™





SPRAY TIP ASSEMBLY

- 1. Be sure the pressure relief procedure is followed before assembling tip and housing to the gun.
- 2. Insert REV-TIPTM cylinder into the REV-GUARDTM (guard housing assembly).
- 3. Guide the metal seat into REV-GUARDTM (guard housing assembly) through the retaining nut and turn until it seats against the cylinder.
- **4.** Insert the O-Ring gasket onto the metal seat so that it fits into the grooves.
- 5. Finger tighten REV-GUARDTM retaining nut onto the gun.
- **6.** Turn guard in the desired position.
- 7. Completely tighten the retaining nut.



CLEANING SPRAY GUN

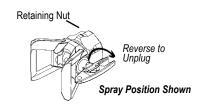
Immediately after the work is finished, flush the gun out with a solvent. Brush pins with solvent and oil them lightly so they will not collect dried paint.

CLEANING FILTER IN GUN HANDLE

To clean the filter, use a brush dipped in an appropriate solvent. Change or clean filters at least once a day. Some types of latex may require a filter change after **14** four hours of operation.

TO REMOVE CLOGS FROM SPRAY TIP

- 1. Lock gun safety latch.
- 2. Turn REV-TIPTM handle 180 degrees.
- 3. Disengage trigger lock and trigger gun into the pail.
- **4.** If the REV-TIP[™] handle appears locked (resists turning), loosen the retaining nut. The handle will now turn easily.
- **5.** Engage gun safety latch and return handle to the spray position.



CLOGGED FLAT TIP

Should the spray tip become clogged, relieve pressure from hose by following the "Pressure Relief Procedure." Secure gun with the safety latch, take off guard, take out the tip, soak in appropriate solvent & clean with a brush. (Do not use a needle or sharp pointed instrument to clean the tip. The tungsten carbide is brittle and can chip.)

Spray Gun Troubleshooting

| Problem | Cause | Correction |
|---|--|--|
| Coarse Spray, Spotty Pattern | Pressure setting low Irratic spray gun/hand motion | Increase pressure setting Use a steady, parallel pass |
| Excessive Overspray (Fogging) | Pressure setting high Paint over thinned/reduced/cut | Reduce pressure setting Use less thinner/water/reducer |
| Spray Pattern Excessively Wide | Incorrect fan width selection | Select narrower fan width tip* |
| Spray Pattern Excessively Narrow | Incorrect fan width selection | Select wider fan width tip* |
| Excessive Paint Delivery Paint Film Runs/Sags | Large tip orifice for application Paint over thinned/reduced/cut Excessive pressure Spray gun/hand speed slow | Select smaller tip orifice* Use less thinner/water/reducer Reduce pressure setting Increase pass speed |
| Spray Pattern Rounded and Heavy: Pump Does Not Keep Up | Tip worn beyond use | Replace with new tip* |
| Spray Pattern Pulsates/Irratic: Pump Does Not Keep Up | Pump worn or malfunctioning | Service pump |
| Thin or Spotty Coverage (Holidays) | Small tip orifice Spray gun/hand speed fast | Select larger tip orifice* Decrease pass speed |
| Thin Coverage in Center of Pattern (Fingers) | Tip size larger than pump specs Low pressure setting Pump worn or malfunctioning | Replace with correct tip for pump* Increase pressure setting Service pump |
| Spray Pattern Irregular, Deflected | Tip orifice partialy clogged Tip damaged | Clean tip carefully Replace with new tip* |
| Excess Paint Builds on Tip Guard | Spray gun excessively close to surface Pressure setting high | Hold gun further from surface sprayed Reduce pressure setting |
| Drips, Spits From Tip | Valve seat and/or ball in gun head damaged or worn | Service spray gun, replace valve assembly |
| Tip Clogs Continually | Debris in paint Gun filter missing Coarse filter mesh | Thouroughly strain paint before use Insure gun filter is in handle Use fine mesh filter in gun handle |
| Gun Filter Clogs Quickly | Debris in paint Pump inlet strainer missing | Thouroughly strain paint before use Do not operate without intlet strainer |

TEST THE PATTERN:

Good, full



Spotty Pattern Increase Pressure.



Field Troubleshooting

| <u>PROBLEM</u> | <u>CAUSE</u> | <u>SOLUTION</u> |
|------------------------|--|--|
| Unit doesn't prime | Airleak due to: • Loose Suction Nut • Worn O-Rings | Tighten Suction Nut Replace O-Ring (106-011) on suction seat, & O-Ring (106-020) below suction seat |
| | Hole in Suction Hose | • Replace Suction Hose (331-290) |
| | Stuck or Fouled Balls | Service outlet valve suction assembly |
| | | |
| Unit primes but has no | Pressure set too low | Turn up pressure |
| or poor pressure | Filter(s) are clogged | Clean or replace gun filter, inlet filter and/or manifold filter |
| | Outlet Valve fouled/worn | Service outlet valve |
| | Prime/Pressure Relief valve bypassing | Clean or replace prime valve |
| | Packings and/or piston worn | Tighten packing nut Repack unit |
| | | |
| Unit does not maintain | Blown spray tip | Replace spray tip |
| good spraying pressure | Packings and/or piston worn | Repack unit |
| | Upper Seat worn | Replace upper seat |
| | | |
| | | |

Servicing the Fluid Pump

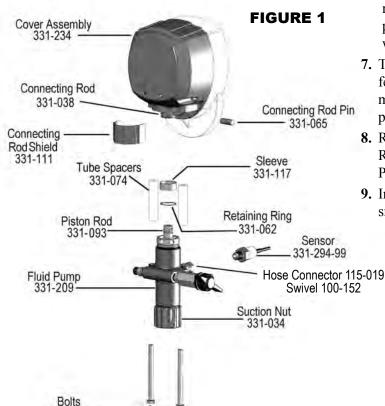
Fluid Pump Disconnect

Refer to Figure 1

- **1.** Follow the Pressure Relief Procedure on page 9.
- 2. Flush the material you are spraying out of the machine.
- **3.** Remove the connecting rod shield (331-111).
- **4.** Move the piston rod (331-093) to its lowest position by cycling pump slowly.
- **5.** Disconnect the sensor (331-294-99) by holding it in place with a 7/8" wrench and unscrewing the hose connector (115-019) with an 11/16" wrench.

DO NOT TURN THE SENSOR.

- **6.** Remove the retaining ring (331-062) from the connecting rod (331-038) and slide the sleeve (331-117) down revealing the connecting rod pin (331-065).
- 7. Remove the suction tube assembly from the fluid pump (331-209) by unscrewing the suction nut (331-034) with the packing adjustment tool.
- **8.** Using a 1/2" wrench unscrew the two bolts (100-318) from the cover assembly (331-234). The fluid pump (331-209) will be hanging loosely at this point.
- 9. Remove the connecting rod pin (331-065) out of the connecting rod (331-038), allowing the removal of the fluid pump (331-209) from the machine.



100-318

Fluid Pump Reinstall

Refer to Figure 1 & 4

- 1. Loosen the packing nut and ensure that the piston rod (331-093) is in its upper position in the fluid pump body (331-011). Slip the sleeve (331-117) & the retaining ring (331-062) over the piston rod.
- 2. Push the piston rod up into the connecting rod (331-038) & align the holes. Insert the connecting rod pin (331-065) through the connecting rod & piston. Slip the sleeve up over the connecting rod pin and insert the retaining ring into the groove on the connecting rod.
- **3.** Push the two bolts (100-318) through the tube spacers (331-074) & screw them into the cover assembly (331-234). Using a 1/2" wrench, tighten the two bolts evenly (alternating between them) until you reach 20 ft-lbs.
- **4.** Reassemble lower suction valve assembly by placing the suction seat (331-409), O-ring (106-011), suction ball (331-030) & suction ball guide (331-029) in the suction nut (331-034) & screw onto fluid pump body.
- **5.** Reconnect the sensor (331-294-99) to the fluid pump body. Hold the sensor with a 11/16" wrench while tightening the hose connector (115-019) with an 7/8" wrench. **DO NOT TURN THE SENSOR.**
- **6.** Start the machine and operate slowly to check the piston rod for binding. Adjust the two bolts, holding the fluid pump body to the cover assembly, if necessary. This will eliminate any binding.
- 7. Tighten the packing nut clockwise until resistance is felt against the Belleville Springs, then go 3/4 of a turn more. Put five drops of Airlessco Throat Seal Oil into the packing nut.
- **8.** Run the machine at full pressure for several minutes. Release the pressure by following the Pressure Relief Procedure & readjust the packing nut per step 7 above.
- **9.** Install the connecting rod shield (331-111) so that the small hole is in the upper right hand corner.

Servicing the Piston Rod - Outlet Valve

DISASSEMBLY OF THE OUTLET VALVE REFER TO FIGURE 3

- **1.** Disconnect the Fluid Pump following instructions on page 17.
- **2.** Place piston holder (331-195) in a vise. Slide piston into the holder & lock in place with a 3/8" dowel (331-196).
- **3.** Use a 1/4" allen wrench to unscrew the outlet seat retainer (331-026) from the piston.
- **4.** Remove the outlet seat (331-026), O-ring (331-100) and outlet ball (331-027).
- **5.** Inspect outlet ball & seat for wear. Replace as necessary.
- **6.** While piston is still locked in the holder, install parts back into the piston in the following order:

ball, outlet seat and O-ring

Before reinstalling the outlet seat support, apply two drops of Loctite No. 242 (blue) on the threads & torque to 20 ft-lbs.

NOTE: Airlessco LP pump tool kit 188-197 is suggested for this task. Kit includes: Tightening Bar (189-211), Packing Removal Tool (331-465), Piston Holder (331-195), 3/8" dowel (331-196).

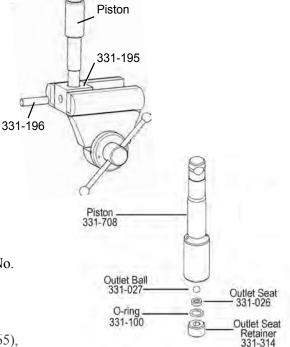


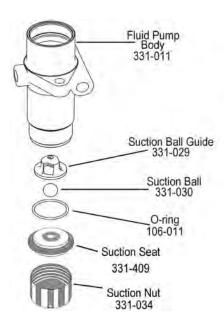
FIGURE 3

Servicing the Suction Assembly

REFER TO FIGURE 4

- 1. Un-thread and remove suction nut from the fluid pump body.
- **2.** Remove suction seat (331-409), O-ring (106-011), suction ball (331-030) and suction retainer (331-029).
- **3.** Clean all parts and inspect them for wear or damage, replacing parts as needed.
- **4.** Clean inside of the fluid pump body.
- 5. Reassemble lower suction valve assembly by placing the suction seat (331-409), O-ring (106-011), suction ball (331-030) & suction ball guide (331-029) in the suction nut (331-034) & screw onto fluid pump body.

FIGURE 4



Packing Replacement Procedures

Replacement Instructions:

Fluid Pump Removal - Refer to Figure 1

- 1. Follow the Pressure Relief Procedure on page 9.
- 2. Flush material you are spraying out of the machine.
- **3.** Remove the connecting rod shield (331-111).
- **4.** Move the piston rod (331-093) to its lowest position by cycling pump slowly.
- 5. Disconnect the sensor (331-294-99) by holding it in place with a 7/8" wrench & unscrewing the hose connector (115-019) with an 11/16" wrench.

DO NOT TURN THE SENSOR.

- **6.** Remove the retaining ring (331-062) from the connecting rod (331-038) and slide the sleeve (331-117) down revealing the connecting rod pin (331-065).
- 7. Remove the suction tube assembly from the fluid pump (331-209) by unscrewing the suction nut (331-034) with the packing adjustment tool.
- **8.** Using a 1/2" wrench unscrew the two bolts (100-318) from the cover assembly (331-234). The fluid pump (331-209) will be hanging loosely at this point.
- 9. Remove the connecting rod pin (331-065) out of the connecting rod (331-038), allowing the removal of the fluid pump (331-209) from the machine.

Disassembly of the Fluid Pump - Figure 6

- 1. Unscrew & remove the packing nut (331-037).
- 2. Push the piston rod (331-708) down through the packings & out of the pump.
- **3.** Now push the packing removal tool (331-465) up through the pump & remove from the top bringing packings, spacer & springs along with it, leaving fluid body (331-011) empty.

*Make sure all old packings & glands have been removed from fluid pump.

- 4. Clean inside of fluid body (331-011).
- **5.** Disassemble all parts & clean for reassembly. Discard any old packings.
- **6.** Lubricate leather packing in lightweight oil for 10 minutes prior to reassembly.

Disassembly of the Outlet Valve - Figure 3

- 1. Place piston holder (331-195) in a vise. Slide piston into the holder & lock in place with a 3/8" dowel.
- 2. Use a 1/4" allen wrench to unscrew the outlet seat retainer (331-026) from the piston.
- **3.** Remove the outlet seat (331-026), O-ring (331-100) and outlet ball (331-027).
- 4. Inspect outlet ball & seat for wear. Replace as necessary.
- **5.** While piston is still locked in the holder, install parts back into the piston in the following order:

ball, outlet seat and O-ring

Before reinstalling the outlet seat support, apply two drops of Loctite No. 242 (blue) on the threads & torque to 20 ft-lbs.

REASSEMBLY - Figure 5 & 6

- 1. Take lower male gland (331-014) & place it down on the flat side.
- 2. Take three of the lower polyethylene packings (331-016) & two of the leather packings (331-306) & place onto the male gland in the following order with the inverted side down:

 Polyethylene, leather, polyethylene, leather, polyethylene.
- 3. Take the female adaptor (331-305), which is inverted on both sides ▶ , & place it on top of your assembled lower packings.
- **4.** Follow step 2 above with your packings inverted side up.
- **5.** Take the second lower male gland and place it on top of your assembled packings with the rounded side down.
- **6.** Take assembled glands & packings (13 pieces) & slide on to the lower half of the piston.
- 7. Take the spacer (331-018) & slide over the top of the piston (it doesn't matter which direction it sits), falling onto lower packings.
- **8.** Take three Belleville Springs (331-025) & slide over the top of the piston in the following order:
 - * First spring, curve facing down
 - * Second spring, curve facing up
 - up 🔾
 - * Third spring, curve facing down
- 9. Take the upper male gland (331-022) & place it rounded side up.
- 10. Take three upper polyethylene packings (331-023) & two leather packings (331-307) & assemble with inverted side down on to the male gland in the following order:

 polyethylene, leather, polyethylene, leather, polyethylene.
- 11. Take upper female gland (331-021) & place on top of the assembled upper packings with the inverted side down.
- **12.** Take assembled upper glands & packings (7 pieces) & slide on over the top of the piston, making sure inverted sides are down.
- **13.** Take the packing holder (331-019) & replace the white O-ring (106-009) & the black O-ring (106-010) with new ones from the packing kit.
- **14.** Slide the packing holder over the top of the upper packings so they fit inside.
- **15.** Lubricate inside of the fluid pump body & the outside of the packings with a light weight oil.
- **16.** Slide completed assembly into fluid pump body (331-011).
- * To keep packings secured in correct position, hold the pump body upside down & push the completed assembly upwards into the pump body. Once placed inside, tilt pump body back up to keep all pieces in.
- **17.** Tighten packing nut (331-037) onto the top of the fluid pump body & tighten until you feel slight resistance against the Belleville Springs (331-025). Using the Packing Adjustment Tool (189-211), tighten another 3/4 of a turn.

Fluid Pump Reinstallation - Figure 1 & 4

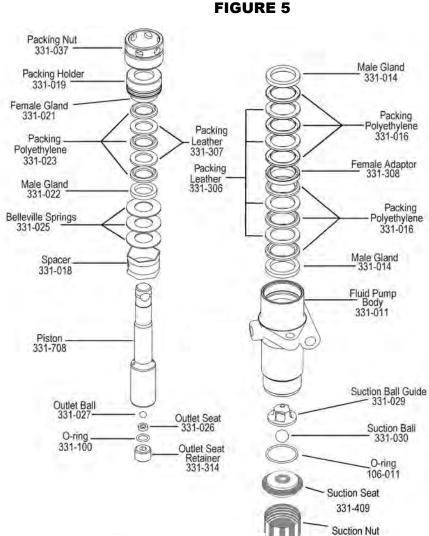
- 1. Loosen packing nut & ensure that the piston rod (331-093) is in its upper position in the fluid pump body (331-011). Slip the sleeve (331-117) & the retaining ring (331-062) over the piston rod.
- 2. Push piston rod up into the connecting rod (331-038) & align the holes. Insert the connecting rod pin (331-065) through the connecting rod & piston. Slip the sleeve up over the connecting rod pin & insert retaining ring into the groove on the connecting rod.

Packing Replacement Procedures

- 3. Push the two bolts (100-318) through the tube spacers (331-074) & screw into the cover assembly (331-234). Using a 1/2" wrench, tighten the two bolts evenly (alternating between them) until you reach 20 ft-lbs.
- 4. Reassemble lower suction valve assembly by placing the suction seat (331-409) O-ring (106-011), suction ball (331-030) and suction ball guide (331-029) in the suction nut (331-034) & screw onto the fluid pump body.
- 5. Reconnect the sensor (331-294-99) to the fluid pump body. Hold sensor with a 7/8" wrench while tightening the hose connector (115-019) with an 11/16" wrench.

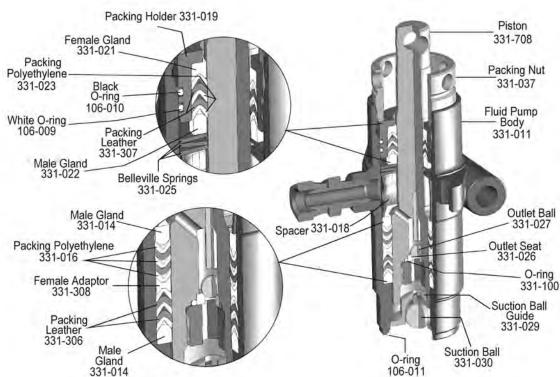
DO NOT TURN THE SENSOR.

- 6. Start the machine & operate slowly to check the piston rod for binding. Adjust the bolts, holding the fluid pump body to the cover assembly, if necessary. This will eliminate any binding.
- 7. Tighten packing nut clockwise until resistance is felt against the Belleville Springs, then go 3/4 of a turn more. Put five drops of Airlessco Throat Seal Oil into the packing nut.
- **8.** Run the machine at full pressure for several minutes. Release the pressure by following the Pressure Relief Procedure & readjust the packing nut per step 7 above.
- **9.** Install the connecting rod shield (331-111) so that the small hole is in the upper right hand corner.



331-034

FIGURE 6



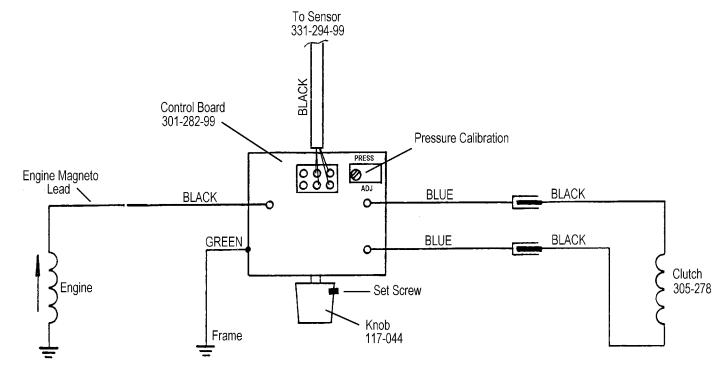
Electrical Control Board Replacement

- 1. Remove electrical cover.
- 2. Disconnect sensor lead from Electrical Board.
- **3.** Disconnect two clutch leads on Electrical Board from leads on clutch.
- **4.** Using a 1/16" allen, loosen set screw in Pressure Control Knob and remove knob.
- **5.** Using a 1/2" nutdriver or 1/2" deep socket, remove nut from pressure control shaft. This will allow removal of electrical control board from frame.
- **6.** Replace Electrical Board Assembly in reverse order. Adjust pressure as per procedure below, "Pressure Calibration on the Electrical Control Board".

Pressure Calibration on the Electrical Control Board

- 1. Turn "Pressure Calibration" Trimpot adjustment on electrical control board in the counter clockwise direction at least 15 revolutions.
- **2.** Connect 5000 psi glycerine pressure guage on output of pump between fluid pump & airless hose to monitor Fluid Pump Pressure.
- **3.** Turn Prime/Pressure Relief Valve to the open (Prime) position. Start engine and run at maximum RPM. Turn Pressure Control Knob to maximum position (fully clockwise).
- 4. Using an insulated screwdriver, adjust "Pressure Calibration" Trimpot by turning clockwise until the clutch engages. When the clutch engages the pump will commence Priming. When pump is primed, turn the Prime/Pressure Relief Valve to the Closed (Pres sure) Position

- The pump will begin to pressurize and the clutch will disengage at a low pressure. Continue turning the Trimpot clockwise to increase pressure to 3000 psi.
- **5.** Trigger gun. The pressure should drop approximately 350-400 psi (when using a 3/8" hose), the clutch will engage and build pressure to 3000 psi and disengage. Trigger gun several times to ensure proper pressure setting.
- **6.** Turn Pressure Control Knob to minimum position. The clutch should disengage and pump stop moving.
- 7. Secure leads with tie strap.
- **8.** Replace cover on unit. Ensure the leads are not pinched or damaged in the process of replacing covers.



Clutch Replacement

REMOVE CLUTCH AS FOLLOWS:

- 1. Remove clutch and electrical box cover.
- 2. Disconnect the power lead coming from the engine to the electrical box and feed it through the back of the electrical box.
- **3.** Using a 1/2" wrench along with a 1/2" socket remove the four bolts attaching the engine to the frame.
- **4.** Remove the engine from the frame and set it on your work bench so the clutch face is facing you.

- **5.** Using a small Phillips head screwdriver remove the three screws holding the clutch face to the clutch mount.
- **6.** Disconnect two clutch leads from electrical board leads. Carefully cut the small Zip-tie holding the clutch wires to the gear housing.
- 7. Using a #2 Phillips screwdriver, remove the two Phillips head screws holding the clutch field to the gear housing.
- 8. Pull the clutch field off of the pinion gear.

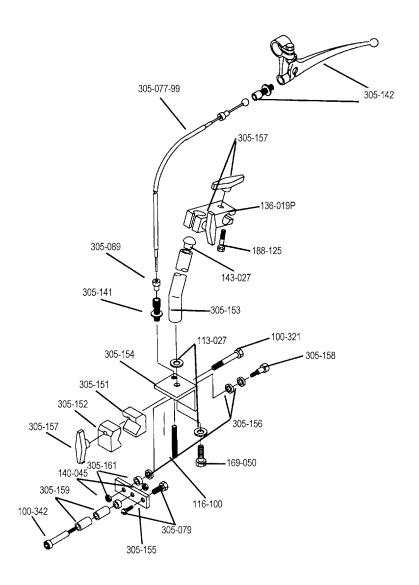
INSTALL NEW CLUTCH AS FOLLOWS:

- **1.** Apply Anti-seize lubricant to the pinion shaft coming out of the gearbox.
- 2. Slide new clutch field over pinion shaft lining up holes for the Phillips head screws located at the top (indicated by a square tab) and bottom of the field.
- **3.** Feed the black clutch wires into electrical box & plug into matching wires from the control board.
- **4.** Install the new zip-tie (comes with the clutch replacement kit) to the wire mount, keeping the wires from the path of the clutch.
- **5.** Apply blue Lock-tite to the screws and reinstall into the gearbox.
- 6. Mount the clutch face to the clutch mount. Use a Phillips head screwdriver to tighten the three screws used for mounting the clutch face. Once the screws come to a positive stop, hold them in place with the screwdriver and thread the lock nuts onto the portion of the screws protruding from the rear of the clutch mount. Tighten the lock nuts until they are flush with the clutch mount.
- 7. Set the engine back on the frame and tighten the nuts and bolts so that you still can move the engie back and forth fairly easily.
- **8.** Using a feeler gauge slide the motor forward until you reach a spacing of .010" between the clutch face and the field. Once you reach this point, finish tightening the engine bolts, alternating to keep the air gap the same on all sides of the clutch. Replace the clutch cover.

Troubleshooting - Clutch Does Not Engage

- **STEP 1**: Ensure that the pressure control knob (POT) is in the maximum (CW) position.
- **STEP 2:** Remove the clutch and electrical box covers.
- **STEP 3:** Check all electrical connections between the engine magneto, sensor, control board and clutch for loose connections or damaged leads.
- **STEP 4:** Disconnect the two leads from the control board (blue) and the clutch assembly (black). Using a multimeter, with the engine at maximum RPM, pressure control knob in the maximum position and the prime valve open (priming) position, test the DC voltage across the boards leads (blue). This voltage must be 13-14 VDC. If the readings are correct, the board, sensor and magneto are okay and the problem is the clutch assembly. If this is the case, proceed to Step 5. If the voltage is outside this range go to Step 7.
- **STEP 5:** Check the spacing between the clutch field and plate. The gap should be .010" to .014". If the gap is greater than .014" the gap is too wide. If this gap is too wide, replace the clutch assembly.
- **STEP 6:** When the DC voltage from the board is not 13-14 VDC, disconnect the control board lead (black) from the engine magneto lead (pink), located on the side of the engine. With the engine at maximum RPM (3600), pressure control knob in maximum (CW) position and prime valve open (priming), read the AC voltage from the magneto lead to the sprayer frame. This reading should be 19-24 VAC. If outside this range, contact your local Honda repair facility for magneto replacement. If the magneto is producing the proper AC voltage, continue to Step 7.
- **STEP 7:** Test the sensor by reading the resistance between the red and black wires. The resistance runs between 1.5-3K ohms. A defective sensor usually shows no resistance (open). If the reading is outside standards, replace the sensor. An alternative method to test the sensor, is to plug a new sensor into the board and see if the clutch will engage. Caution! When using this method, ensure prime/ pressure valve is in the prime position. This is important because the sensor plugged into the board is not measuring pressure in the fluid section.
- **STEP 8:** When Steps 6 & 7 have been completed and the magneto and sensor check good, the electrical control board is the only item left, replace the board.

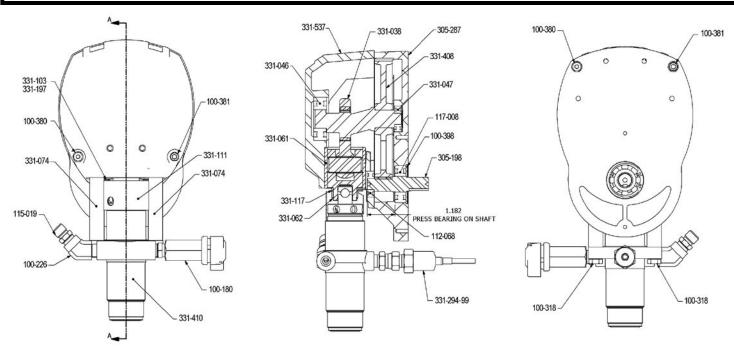
Gun Holder Assembly - Part No. 305-150



| Part Number | Description |
|-------------|-----------------------|
| 100-321 | Screw |
| 100-342 | Shoulder Screw |
| 113-027 | Lock Washer (2) |
| 116-100 | Spring |
| 136-019P | Swivel Clamp Assembly |
| 140-045 | Jam nut (2) |
| 143-027 | Ball Guide |
| 169-050 | Screw |
| 188-125 | Screw (2) |
| 305-077-99 | Cable Assembly |
| 305-079 | Wire Swivel Assembly |
| 305-089 | Cable Insert |

| Part Number | Description |
|-------------|--------------------|
| 305-141 | Cable Adjuster |
| 305-142 | Lever Assembly |
| 305-151 | Clamp - inner |
| 305-152 | Clamp - outer |
| 305-153 | Tube - Gun Holder |
| 305-154 | Bracket |
| 305-155 | Lever |
| 305-156 | Thrust Washer (2) |
| 305-157 | Knob (3) |
| 305-158 | Shoulder Screw |
| 305-159 | Sleeve Bearing (2) |
| 305-161 | Spacer (2) |

Gear Box Assembly Part No. 305-310



| Part Number | Description | Part Number | Description | Part Number | Description |
|-------------|-----------------|-------------|-------------------|-------------|-----------------|
| 100-180 | Prime Valve | 305-198 | Pinion Shaft | 331-111 | Front Shield |
| 100-226 | 45 degree Elbow | 305-287 | Machined End Bell | 331-117 | Sleeve |
| 100-318 | HXHD Screw | 331-038 | Crosshead Assy | 331-197 | FLPHHD Screw |
| 100-380 | Screw | 331-046 | Ball Bearing | 331-294-99 | Pressure Sensor |
| 100-381 | Screw | 331-047 | Ball Bearing | 331-408 | Crank Assy |
| 100-398 | Retaining Ring | 331-061 | Sleeve Bearing | 331-410 | Paint Pump Assy |
| 112-068 | Ball Bearing | 331-062 | Retaining Ring | 331-537 | Machined Cover |
| 115-019 | Hose Connector | 331-074 | Spacer | Not shown: | 331-132 Grease |

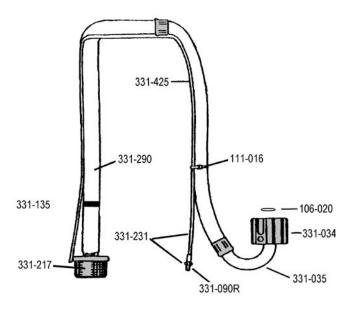
Flat Washer

Suction Assembly Part No. 331-238

331-103

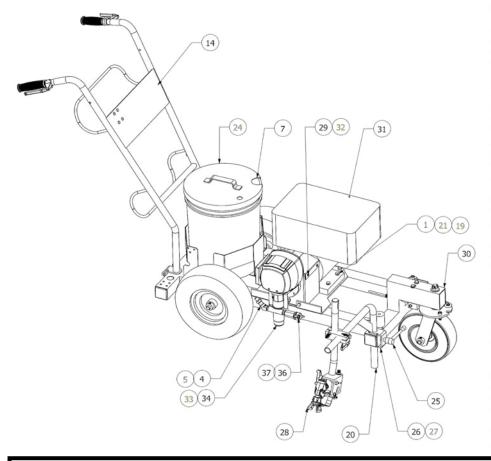
Ball Bearing

117-008



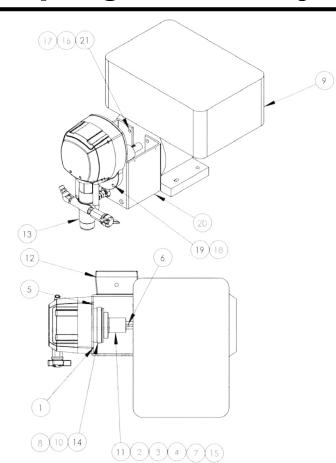
| Part Number | Description |
|-------------|------------------------------------|
| 106-020 | O-Ring PTFE |
| 111-016 | Nylon Tie |
| 331-034 | Suction Nut |
| 331-035 | Suction Elbow |
| 331-090R | Fitting |
| 331-135 | Spring Clip |
| 331-217 | Inlet Strainer |
| 331-231 | Bypass Hose Ass'y |
| 331-290 | Suction Hose Ass'y (Inc. strainer) |
| 331-425 | Bypass Hose |

Frame Assembly 305-227



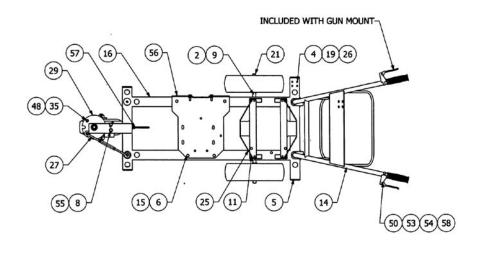
| ITEM # | PART NUMBER | DESCRIPTION | QTY |
|--------|----------------|---------------------------|-----|
| 1 | 113-022 | NUT 5/16-18ZN HX HD | 4 |
| 2 | 001-043 | WARRANTY REG. CARD | 1 |
| 3 | 001-692 | SURE STRIPE 4000 LIT PACK | 1 |
| 4 | 100-109 | NIPPLE 3/8NPT TO 1/4 NPT | 1 |
| 5 | 100-199 | WHIP HOSE 3/8' x 6' | 1 |
| 6 | 100-637 | MOUNTING BASE | 1 |
| 7 | 100-643 | GASKET | 1 |
| 8 | 101-006A | LABEL, CAUTION | 1 |
| 9 | 101-157 | LABEL ENGINE SPEED | 1 |
| 10 | 101-194 | LABEL, GAS-ID | 1 |
| 11 | 101-206 | TAG PACK. NUT ADJ | 1 |
| 12 | 101-226 | LABEL GENERAL WARNING | 1 |
| 13 | 101-228 | LABEL NEVER/ALWAYS LP&SL | 1 |
| 14 | 101-335 | LABEL-HANDLEBAR SS-4000 | 1 |
| 15 | 101-347 | MACHINE INSPECTION LABEL | 1 |
| 16 | 106-031 | CLIP | 1 |
| 17 | 111-046 | NYLON TIE STRAP, 11" | 6 |
| 18 | 111-057 | TIE STRAP, NYLON | 1 |
| 19 | 136-123 | SCREW 5/16-18 x1.50 HX HD | 4 |
| 20 | 139-353 | ARM FOR SG, SHORT | 1 |
| 21 | 140-029 | WASHER .569x.313x.061 A | 8 |
| 22 | 188-087 | THROAT SEAL OIL (6 oz) | 1 |
| 23 | 189-211 | TOOL-PACKING TIGHTEN-LP | 1 |
| 24 | 301-533 | LID BUCKET | 1 |
| 25 | 305-044 | ADJUSTABLE HANDLE 3/8 x 1 | 1 |
| 26 | 305-051M | CLAMP | 1 |
| 27 | 305-108 | PLATE | 1 |
| 28 | 305-167 | ASSY 1ST GUN FOR STRIPER | 1 |
| 29 | 305-268 | COVER ENGINE MOUNT | 1 |
| 30 | 305-295 | FRAME ASSY' SS-4000/FS+ | 1 |
| 31 | 305-354 | MOTOR & PUMP ASSY | 1 |
| 32 | 331-138 | SCREW 10-24 x .25 .PHPNHD | 4 |
| 33 | 331-409 | SUCTION SEAT ASS'Y | 1 |
| 34 | 331-583 | SUCTION ASS'Y SS4000 | 1 |
| 35 | 105-363 | BOX 48 X 24 X 28 | 1 |
| 36 | 100-226 | FITTING 1/4MFx45 DEGREE | 1 |
| 37 | 115-019 | HOSE CONECTO 1/4NPSxNPT | 1 |

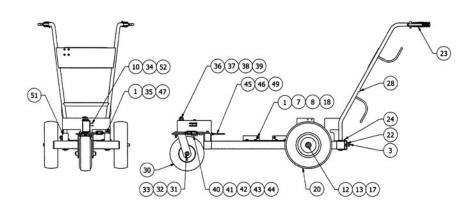
Pump/Engine Assembly 305-354



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------------------|------|
| 1 | 100-374 | SCREW 1/4-20 x .50 HEX HD | 4 |
| 2 | 100-632 | LOCKNUT, 8-32 | 3 |
| 3 | 100-633 | SCREW #8-32 | 3 |
| 4 | 100-634 | WASHER LOCKING | 3 |
| 5 | 100-637 | MOUNTING BASE | 1 |
| 6 | 112-029 | KEY 3/16 SQ x 1-1/2 | 1 |
| 7 | 113-093 | RING RETAINING | 3 |
| 8 | 113-094 | KEY 5MM SQ X 25MM | 1 |
| 9 | 175-029 | ENGINE 4 HP HONDA | 1 |
| 10 | 305-278 | CLUTCH MCS-1.2 | 1 |
| 11 | 305-279 | ADAPTER, CLUTCH | 1 |
| 12 | 305-285 | CONTROL BOARD ASSY | 1 |
| 13 | 305-310 | GEARBOX & PUMP ASSY | 1 |
| 14 | 331-178 | RUBBER EXTRUSION | 2 |
| 15 | 331-495 | BUSHING, TEFLON LINED | 1 |
| 16 | 331-497 | NUT 5/16-24 | 4 |
| 17 | 331-496 | SCREW, SET 5/16-24 | 4 |
| 18 | 188-041 | SCREW 1/4-20 x 1.00 HX HD | 2 |
| 19 | 136-217 | NUT 1/4-20 JAM NY-LOCK ST | 2 |
| 20 | 305-342 | BRACKET MOUNTING BOX | 1 |
| 21 | 113-023 | LOCK WASHER SPLIT 5/16 | 4 |

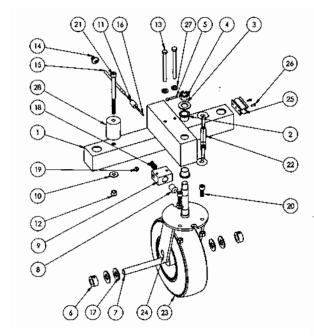
Frame Assembly Parts List





| ITEM # | PART NUMBER | DESCRIPTION | QTY |
|----------|-------------------------------|-----------------------------------|---------------|
| 1 | 100-344 | Washer .312 USS | 4 |
| 2 | 100-369 100-370 100-390 | Wave Washer | 2 |
| 3 | 100-370 | SCREW 3/8-16 | 2 |
| 4_ | 100-390 | Screw 1/4-20 x .5 Cap 2.00 SQ | 4 |
| 5 | 100-621 | | 4 |
| 6 | 111-044 | Screw 5/16-18 x .75 | 4 |
| | 113-022 | Nut 5/16-18 | 2 |
| 8 | 113-023 | Lock Washer Sprite | 4 |
| 9 | 113-030 | Spacer .75 LG | 2 |
| 10 | 111-036 119-026 | Spring Clip | 1 4 |
| 12 | 136-131 | Screw 1/4 x .75 Chain Sash #8 | 1 |
| 13 | 136-131 | Key Ring | 1 |
| 14 | 139-053 | Handle | + |
| 15 | 139-327 | Rivnut 5/16-18 | 2 |
| 16 | 305-364 | Frame Weldment | 1 |
| 17 | 143-029 | Set Collar 5/8 I.D. | 2 |
| 18 | 169-050 | Screw 5/16-18 | 2 |
| 19 | 188-042 | Nut 1/4-20 | 4 |
| 20 | 301-165 | Wheel 13" | 1 2 |
| 21 | 301-170 | Axle 5/8 x 22.62 | 1 |
| 22 | 305-051M | Clamp | 2 |
| 23 | | Rubber Grip | |
| 23 24 | 305-058 305-108 | Plate | 2 |
| 25 | 305-144 | Bucket Holder | 2 |
| 26 | 305-185 | Clamp , Breake | 1 |
| 27 | 136-231 | Turnbukle | 1 |
| 28 | 116-105 | Spring Clip | 3 |
| 29 30 | 305-253 139-337A | Cramp Swivel | 1 |
| | | Wheel | 1 |
| 31 | 136-230 | Axle 5/8 x 5.5 | 1 |
| 32 | 143-028 | Washer .656 x 1.329 | 4 |
| 33 | 143-029 | Set Collar | 2 |
| 34 | 140-040 | Star Washer | |
| 35 | 119-035 | Nut 3/8-16 | 4 |
| 36 | 140-053 | Flat Washer | 2 |
| 37 | 112-008 | Flanged Bearing | 2 |
| 38 | 260-029 | 5/8-18 Slotted Nut | 1 |
| 39 | 113-021 | Cotter Pin 3/16 x 1.25L | 1 |
| 40 | 305-257 | Pin Swivel Lock | 1 |
| 41 | 305-258 | Lock Swivel | 1 |
| 42 | 136-223 | Spring Comp | 1 |
| 43 | 100-223 | 1/8 NPT Grease Fitting | 1 |
| 44 | 100-393 305-259 305-261 | SCREW 6-32 x 2.0 | 1 |
| 45 | 305-259 | SCREW 6-32 x 2.0 End Lug, Lock | 1 |
| 46 | 305-261 | Cable Holder 8 x 1.25mm | 1 |
| 47 | 100-648 | Screw 3/8-16 x 5" | 2 |
| 48 | 100-649 | Screw 3/8-16 x 1" | 2 |
| 49 | 100-652 | Swivel Cable | 1 |
| 50 | 136-023 | Cable End Lug | 1 |
| 51 | 179-029 | Spacer | 12 |
| 52 | 117-029 117-072 301-335 | Screw 6-32 x .37 | 2 2 1.5 |
| 53 | 301-335 | Shrink Tube | |
| 54 | 305-089 | Insert Cable | 1 |
| 55 | 100-318 | Screw 3" | 2 |
| 56 | 305-343 | Bracket Mounting | 1 |
| 57 | 305-141 | Adjust 8 mm | 1 |
| 58 | 305-105 | Lever | 1 |

Swivel Wheel Assembly



| ITEM NO. PART NUMBER | | DESCRIPTION | EXPLOCED VIEW/QTY. | | |
|----------------------|-----------|---------------------------------------|--------------------|--|--|
|) | 305-364 | FRAME | 1 | | |
| 2 | 112-008 | FLANGED BEARING, 3/4 | 2 | | |
| 3 | 140-053 | WASHER, FLAT, 18mm | 2 | | |
| 4 | 260-029 | NUT, HEX, 5/8-18UNC-28, CASTLE | ı | | |
| 5 | 113-021 | COTTER PIN, 3/6 X 1.25 LG. | ı | | |
| 6 | 143-029 | SET COLLAR | 2 | | |
| 7 | 136-230 | AXR., 5/8 x 5.50 LG., | I | | |
| 8 | 305-257 | PIN SWIVELLOCK | 1 | | |
| 9 | 305-258 | LOCK, SWIVEL | ı | | |
| 10 | 100-344 | WASHER, FLAT, 3/8 | 2 | | |
| 11 | 305-259 | END LUG, LOCK | 1 | | |
| 12 | 119-035 | NUT, HEX, 3/8-16UNC-28, NYLOK | 4 | | |
| 13 | 100-318 | SCREW, HOHD, 5/16-18UNC-2A X 3.75 LG. | 2 | | |
| 14 | 305-261 | CABLE HOLDER, 8mm | 1 | | |
| 15 | 100-652 | CABLE | 11 | | |
| 16 | 100-393 | SCREW, SCHD, #6-32UNC-2A X 2.00 LG. | 1 | | |
| 17 | 143-028 | WASHER, FLAT, 5/8 | 4 | | |
| I8 | 136-223 | SPRING480 O.D. X 1.25 LG. | 1 | | |
| 19 | 100-223 | GREASE FITTING, 1/8NPT | ŀ | | |
| 20 | 100-649 | SCREW, SCHO, 3/8-16UNC-2A X 1.00 LG. | 2 | | |
| 21 | 100-648 | SCREW, SCHD, 5/16-18UNC-2A X 5.00 LG. | 2 | | |
| 22 | 136-231 | EYE & EYE TURNBUCKLE | L | | |
| 23 | 139-337A | WHEEL 9.0 X 2.5 | 1 | | |
| 24 | 305-253 | CLAMP, SWIVEL | 1 | | |
| 25 | 111-036 | SPRING CUP | 1 | | |
| 26 | 117-072 | SCREW 6-32 x 37 PH PN HD | 2 | | |
| 27 | , 113-023 | LOCKWASHER, 3/8 | 2 | | |
| 28 - | 179-029 | SPACER TUBE | 2 | | |

Part Number 560-xxx

For sizes not shown, call factory for availability.

TIP IDENTIFICATION:

1st 3-digits identifies it as a **REV-TIP** $^\omega$ for airless <u>paint spraying</u> (P.N. 560-xxx) or a **REV-TIP** $^\omega$ for airless <u>line striping</u> (P.N. 562-xxxST).

4th digit is the fan width - the number is half the fan width, e.g., 5 means a 10" fan. Exception are the "W" prefix tips which indicate a wide spray pattern.

5th and 6th digits are for the orifice size and is measured in thousandths of an inch, e.g., 17 = 0.017 inch - The higher the number, the larger the tip.

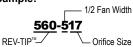
| Rev-Tip [™] for Painting Fan Width (12" from surface) | | SPRAY TIP - ORIFICE SIZE (Inches) | | | | | | | | | | | | | |
|--|--|-----------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|---------------|-------------|--------------|--------------|--------------|--------------|
| in. | (mm) | .009 | .011 | .013 | .015 | .017 | .019 | .021 | .023 | .025 | .027 | .029 .031 | .035 | .039 | .041 |
| 4-6 | 102-152 | 209 | 211 | 213 | 215 | 217 | 219 | 221 | 223 | 225 | 227 | 229 | | | |
| 6-8 | 152-203 | 309 | 311 | 313 | 315 | 317 | 319 | 321 | 323 | 325 | 327 | | 335 | | |
| 8-10 | 203-254 | 409 | 411 | 413 | 415 | 417 | 419 | 421 | 423 | 425 | 427 | 431 | | | |
| 10-12 | 254-305 | | 511 | 513 | 515 | 517 | 519 | 521 | 523 | 525 | 527 | 531 | 535 | | |
| 12-14 | 305-356 | Fine F | | 613 | 615 | 617 | 619 | 621 | 623 | 625 | 627 | 631 | 635 | 639 | 641 |
| 14-16 | 356-406 | Tips B | elow! | | 715 | 717 | | 721 | | | | | | 739 | 741 |
| 16-18 | 406-457 | | | | 815 | | 819 | 821 | | | | 831 | | | |
| 20-24 | 508-610 | | | | | | | W21 | W23 | W25 | | | | | |
| Gun Filter | C= Coarse - 60 mesh F= Fine - 100 mesh | | F | F | F,C | С | С | С | С | REMOVE FILTER | | | | | |
| Wood Interior | Lacquer, Varnish Stain, Sealer Enamel | | • | • | • | | | | | | | | | | |
| Wood Exterior | Exterior Stain Vinyl, Acrylic, Latex | | | | • | • | • | • | | | | | | | |
| Masonry | Vinyl, Oil Base Alkyd Latex, Acrylic Block Filler Elastomer | | | | • | • | • | • | • | : | : | : | : | : | • |
| Ceiling | Hi Build, Mil White | | | | | | | • | • | | | | | | |
| Structural | Steel Heavy Coatings | | | | | | | • | • | • | • | • | • | • | • |
| Water Flow (water @ 2000psi | | | .12 .49 | .18 .69 | .24 .91 | .31 1.17 | .38 1.47 | .47 1.79 | .57 2.15 | .67 2.54 | .77 2.96 | 1.03 3.90 | 1.31 4.98 | 1.63 6.17 | 1.80 6.81 |
| Paint Flow (latex paint @ 200 138 bar/1.36 spec | Opsi, | | .10 .38 | .15 .57 | .21 .79 | .27 1.02 | .33 1.25 | .40 1.51 | .49 1.85 | .58 2.20 | .66 2.50 | .88 3.33 | 1.12 4.24 | 1.39 5.26 | 1.54 5.83 |
| Pump Mini Output* *Pump will suppo | i mum (gpm) (lpm) rt tip wom to next larger size. | | .25 1.0 | .25 | .33 1.25 | .40 1.5 | .50 1.9 | .60 2.3 | .75 2.8 | .88 3.3 | 1.0 3.8 | 1.25 4.7 | 1.5 5.7 | 2.0 7.5 | 2.2 8.2 |



For Paint Spraying

P.N. 560-xxx Includes Rev-Tip™, Metal Seal & O-Ring Seal.

Sample:



HIGH PRESSURE HOSE



Strong yet flexible, suitable for use with airless spray equipment up to 3300 PSI

Part No:

100-012 3/16" x 4' Whip Hose 100-011 1/4" Hose, 50 Ft. 100-023 3/8" Hose, 50 Ft. 100-037 1/2" Hose, 50 Ft 100-219 Hose Cover Roll



100-010 1/4" Hose Connector 100-009 3/8" Hose Connector

ine Finish REV-TIP™

Part # 571-xxx

Double orifice design for lower pressure spraying when you need a smoother finish on interior trim, cabinetry, shutters, and doors.

| Fan Width | Orifice Size | | | | | | | |
|--------------|--------------|------|------|--|--|--|--|--|
| Inches (mm) | .010 | .012 | .014 | | | | | |
| 4-6 102-152 | 210 | 212 | 214 | | | | | |
| 6-8 152-203 | 310 | 312 | 314 | | | | | |
| 8-10 203-254 | 410 | 412 | 414 | | | | | |

REV-GUARD™



- Aerodynamics eliminates drips
- Super compact

Part # 561-001

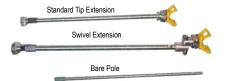
11/16-16 "F" Thread. Fits: Airlessco, and some ASM, Wagner, and Campbell Hausfeld.

Part # 561-002

7/8-14 "G" thread. Some: Graco, Wagner, Titan, Airlessco.

XTEND-A-POLE SYSTEM

Tip Extensions - Complete with Patented SPRAY CLEAN REV-GUARD



TIP EXTENSIONS, G-THREAD

032-170 6" Long 032-172 18" long 032-171 12" Long 032-173 24" Long

SWIVEL & EXTENSION, G-THREAD

032-035 Swivel only 032-184 Swivel with 36" Pole

EXTENSIONS (BARE POLES)

Add Tip Extension or Swivel Extension to create desired length

032-053 24" Long 36" Long 032-054



Reversible REV-TIP*

Part # 560-xxx REV-TIP for **Spray Painting** 562-xxxST REV-TIP for **Striping**

POSI-LOC™ SYSTEM

Snap in centering of tip.
No leaks, splashback or mess.

SEAL LOCATING HANDLE

Tip handle simplifies installing & aligning the seal.

EASIEST ASSEMBLY

Fewer parts - Less complicated takes only seconds!

INTERCHANGEABLE

Can be used with most tip guards.

HIGHEST QUALITY CARBIDE

Micro-ground for extra long life, consistent tip size & pattern.

STRINGER HOLE

Hang tip from hole for cleaning

SINGLE-SEAL

Metal seal - no leaks - sprays all coatings.



Each tip individually tested!

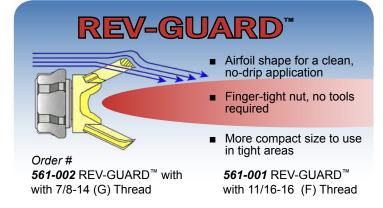
Easy to install & align!

AIRLESSCO COMPETITOR COMPETITOR COMPETITOR PRODUCT FEATURE Aerodynamic Non Drip Guard Finger Tight Nut Requires Hand Tight Nut Snap Tight Tip Lock Low Profile Guard Seal Orientation Slot Tip Handle Hole for Stringer No Seal Blow-By When Tip is Not in Centered Position (1) Seal Orientation Tool on Tip Handle Non Pin Diffuser (2) Hardened Cylinder Long Life Metal Seal Short Fluid Path (3)Tips Fit Graco Bases Seal Installer on Tip 7/8 & 11/16 Gun Thread Working Pressure Unknown Working Pressure Rating

(1) Uncontrolled Spray Back Toward User

(2) No Pattern Distortion From Pin

(3) No Spitting



Cuts Cleaning Time & Saves Paint! Part # 170-005 Simple to Use...Fast to Finish! Connect adapter to any "F" or "G" thread airless spray gun & to a garden hose. Lock trigger open, turn on water flow to backflush paint into the original bucket for reuse while cleaning gun, hose, and pump.

Spray Gun & Hose Spray Packs



Part No: 002-013 Spray Pack includes:

120-504 ProLight Convertible 4/2-Finger Gun **100-011** 50' x 1/4" Hi-Flex Airless Hose

Part No: 002-025 Spray Pack includes:

120-502 ProLight 502 Flat Handle Gun **100-011** 50' x 1/4" HI-Flex Airless Hose

Part No: 002-015 Spray Pack includes:

120-554 008 Silver 4-Finger Gun

100-011 50' x 1/4" Hi-Flex Airless Hose

See Airlessco REV-TIP[™] Brochure (Form 001-449) for current listings of available tip sizes including "W" wide and FINE FINISH tips for Spraying, & Striping tips.



PUMP CONDITIONER

Should be used on piston pumps between uses to prevent internal corrosion. Keep paint from adhering to walls of your pump and airless hose.

010-001 Display of 48 - 1 oz. bottles

010-009 1 quart bottle **010-019** 1 Gallon bottle

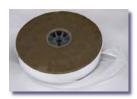
Case order quantity: 12 on quarts, 4 on gallons



PAINT STRAINERS

Prefilter your paint using strainer gs. One dozen per pack.

100-064 Used to cover suction filter **100-065** 5 Gallon strainer



HOSE COVER

4 mil clear poly protects your airless hose from paint and abrasion damage. Comes in 1000' roll with perforations each 50'.

100-219 Hose Cover Roll **100-426** Case of 6 Rolls



HIGH PRESSURE HOSE

Strong yet flexible, suitable for airless equipment up to 3300 PSI

Part No:

100-012 3/16" Whip Hose, 4 Ft. 100-011 1/4" Hose, 50 Ft. 100-023 3/8" Hose, 50 Ft. 100-037 1/2" Hose, 50 Ft.



100-037 1/2" Hose, 50 Ft. 100-010 1/4" Hose Connector 100-009 3/8" Hose Connector

SPRAY TIP ADAPTER

032-012 "F to G" gun adapter to attach Graco® tips to Airlessco 007 Spray Guns.



Flat Tip Washers

120-008 Flat Tip Washer **120-090** Flat Tip Washers 25 Pack

GUN FILTERS

 120-090CX
 Coarse

 120-090FX
 Fine

 120-088
 Filter Spring





For a complete listing of all available accessories see the Airlessco Accessories Catalog, Part # 001-357.



STAY CLEAN™

Spray protectant for your machine to prevent paint from sticking to it. Just spray it on before painting, and then wipe any overspray right off after use. Very popular for use on rental sprayers!

114-030 20 oz. can



THROAT SEAL OIL

Used in the wet cup of a piston pump to prevent paint from drying on the piston & causing damage to the upper packing. Use with all piston pumps.

188-187 6 oz. Bottle **188-392** 1 qt. Bottle



Tip Extensions - Complete with Patented SPRAY CLEAN REV-GUARD



TIP EXTENSIONS. "G" THREAD

 032-170
 6" Long

 032-171
 12" Long

 032-172
 18" Long

 032-173
 24" Long

SWIVEL EXTENSION, "G" THREAD

032-184 36" Long

EXTENSIONS (BARE POLES)

Add Tip Extension or Swivel Extension to create desired length

032-053 24" Long **032-054** 36" Long



SWIVEL "G" THREAD 032-035 7/8" - 14 Swivel

ADAPTERS



90° Pole to Gun Adapter 032-042



Gun Nut "F" Thread 11/16-16 032-010



Gun Nut "G" Thread 032-011

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