# Operation, Repair, Parts Airless Paint Line Striper



For the application of line striping materials. For professional use only. For outdoor use only. Not for use in hazardous locations or explosive atmospheres.

#### Sure Stripe 3650, Sure Stripe 4050, Field Stripe Plus

3000 psi (20.7 MPa, 207 bar) Maximum Working Pressure

See page 50 for model information, including maximum working pressure and approvals.



### Important Safety Instructions

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

#### Related Manuals - 312363 Gun (500) Gun 3A0479 Gun (009)



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### Models

### 3650/4050

A CONTRACTOR	ti26911a	026913a	126914a	ti26915a	L26918a
305401	~	~		~	~
305402	~	~		~	~
865935	~		~	~	~
865936	~	~	~	~	~

### **Field Stripe**



## Warnings

## Warnings

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

	<b>AWARNING</b>
•	FIRE AND EXPLOSION HAZARD
	Flammable fumes, such as solvent and paint fumes, in work area can ignite or
ALL T	explode. Paint or solvent flowing through the equipment can cause static sparking.
	To help prevent fire and explosion:
2003 Z	Use equipment only in well ventilated area.
	• Do not fill fuel tank while engine is running or hot; shut off engine and let it cool.
	Fuel is flammable and can ignite or explode if spilled on hot surface.
	• Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric
	lamps, and plastic drop cloths (potential static sparking).
	<ul> <li>Ground all equipment in the work area. See Grounding instructions.</li> </ul>
	<ul> <li>Never spray or flush solvent at high pressure.</li> </ul>
	<ul> <li>Keep work area free of debris, including solvent, rags and gasoline.</li> </ul>
	• Do not plug or unplug power cords, or turn power or light switches on or off when
	flammable fumes are present.
	Use only grounded hoses.
	Hold gun firmly to side of grounded pail when triggering into pail. Do not use pail
	liners unless they are anti-static or conductive.
	• Stop operation immediately if static sparking occurs or you feel a shock. Do
	not use equipment until you identify and correct the problem.
	Keep a working fire extinguisher in the work area.
$\wedge$	CARBON MONOXIDE HAZARD
	Exhaust contains poisonous carbon monoxide, which is colorless and odorless.
	Breathing carbon monoxide can cause death.
	Do not operate in an enclosed area.

## Warnings



## Warnings

<b>^</b>	PRESSURIZED ALUMINUM PARTS HAZARD
	<ul> <li>Use of fluids that are incompatible with aluminum in pressurized equipment can cause serious chemical reaction and equipment rupture. Failure to follow this warning can result in death, serious injury, or property damage.</li> <li>Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents.</li> <li>Do not use chlorine bleach.</li> <li>Many other fluids may contain chemicals that can react with aluminum. Contact your material supplier for compatibility.</li> </ul>
<b>^</b>	MOVING PARTS HAZARD
	<ul><li>Moving parts can pinch, cut, or amputate fingers and other body parts.</li><li>Keep clear of moving parts.</li></ul>
WPn/ter/PSt	<ul> <li>Do not operate equipment with protective guards or covers removed.</li> <li>Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the <b>Pressure Relief Procedure</b> and disconnect all power sources.</li> </ul>
	TOXIC FLUID OR FUMES HAZARD
	<ul> <li>Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.</li> <li>Read SDS to know the specific hazards of the fluids you are using.</li> <li>Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.</li> </ul>
	PERSONAL PROTECTIVE EQUIPMENT
	Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:
	<ul> <li>Protective eyewear, and hearing protection.</li> <li>Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.</li> </ul>
	CALIFORNIA PROPOSITION 65
	• The engine exhaust from this product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

## Uni-Tip Selection

## **Uni-Tip Selection**

	in. (cm)	in. (cm)	in. (cm)	in. (cm)	for the second		
69215ST*	2 (5)				~	~	
69217ST		4 (10)				~	
69315ST		6 (15)			~		
69317ST		6 (15)			~	~	
69319ST		6 (15)				~	
69321ST		6 (15)				~	
69327ST		6 (15)					~
69417ST			6-8 (15-20)		~		
69517ST				10 (25)	~		
69615ST*				12 (30)	~		
69617ST				12 (30)		~	
* Use 100 m clogs	esh filter to	reduce tip					

## Component Identification

## **Component Identification**





### Setup



The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.

1. Ground striper with grounding clamp during Setup and Cleanup.



 Each time your spray and store, add 3 to 5 drops of Throat Seal Oil (TSO) to decrease packing wear.



3. Check engine oil level. Add SAE 10W-30 (summer) or 5W-20 (winter). See engine manual.



4. Fill fuel tank.



5. If removed, install strainer.



6. Open prime valve. Turn pressure control counterclockwise to lowest pressure.



**NOTE:** Minimum hose size allowable for proper striper operation is 1/4 in. x 50 ft.

7. Place siphon tube set in grounded metal pail partially filled with flushing fluid. Attach ground wire to pail and to true earth ground. Do 1. - 5. of **Startup** to flush out storage oil shipped in striper. Use water to flush water-base paint and mineral spirits to flush oil-base paint and storage oil.



### **Pressure Relief Procedure**



Follow the **Pressure Relief Procedure** whenever you see this symbol.



and moving parts, follow the **Pressure Relief Procedure** whenever sprayer is stopped and before sprayer is cleaned or checked, and before equipment is serviced. 1. Ground striper with grounding clamp.



2. Turn engine OFF.



3. Turn pressure to lowest setting. Trigger gun to relieve pressure.



4. Engage gun trigger lock. Open prime valve.



If you suspect that the Uni-Tip or hose is completely clogged, or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen Uni-Tip Guard retaining nut or hose end coupling to relieve pressure gradually, then loosen completely. Then clear tip or hose.

### Startup



- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10.
- 2. Start Engine.
  - a. Move fuel valve to open.



b. Move choke to closed.



c. Set throttle to fast.



d. Set engine switch ON.



e. Pull starter cord.



f. After engine starts, move choke to open.



g. Set throttle to desired setting.



3. Increase pressure enough to start pump. Allow fluid to circulate for 15 seconds.



4. Turn pressure down, close prime valve. Disengage gun trigger lock.



 Hold gun against grounded metal flushing pail. Trigger gun and increase fluid pressure slowly until pump runs smoothly.



Inspect fittings for leaks. Do not stop leaks with your hand or a rag! If leaks occur, turn striper OFF immediately. Perform **Pressure Relief** (page 10). Tighten leaky fittings. Repeat **Startup**, steps 1-2. If no leaks, continue to trigger gun until system is thoroughly flushed. Proceed to step 3. 6. Place siphon tube in paint pail.



7. Trigger gun again into flushing fluid pail until paint appears. Assemble Uni-Tip and Uni-Tip Guard.





### **Gun Operation**

#### Gun Trigger Lock



Always engage the trigger lock when the sprayer is stopped to prevent the gun from being triggered accidentally by hand or if dropped or bumped.



#### Setup



#### **Connect Gun to Striper**

- 1. Attach supply hose to striper fluid outlet.
- 2. Attach other end of supply hose to gun swivel. Use two wrenches (one on the swivel and one on the hose) to tighten all connections securely.

#### **Uni-Tip and Uni-Tip Guard Assembly**

 Engage trigger lock. Use end of Uni-Tip (A) to press Uni-Tip Seal (B) into Uni-Tip Guard (D), with curve matching tip bore (C).



 Insert Uni-Tip in tip bore and firmly thread assembly onto gun.



Operation

#### **Gun Placement**

1. **Install Gun:** Insert gun into gun holder with head guard pressed against the holder assembly bracket.





2. Tighten gun into clamp.



3. **Position Gun:** Up/down, forward/reverse, left/right.





**NOTE:** Verify that the gun can still be triggered **and** that the trigger lock can still be engaged after installation. Make adjustments if necessary.

#### **Clearing Tip Clogs**



 Release trigger, engage gun trigger lock. Rotate Uni-Tip. Disengage gun trigger lock and trigger gun to clear the clog.



2. Engage gun trigger lock, return Uni-Tip to original position, disengage gun trigger lock and continue spraying.





#### **Spraying Gun**



- 1. Disengage trigger lock.
- 2. Be sure the arrow-shaped tip faces forward (spray).
- Hold gun perpendicular and approximately 12 in. (304 mm) from surface. Move gun first, then pull trigger to spray a test pattern.
- Slowly increase pump pressure until coverage is uniform and even (see striper instruction manual for additional information).

#### **Aligning Spray**



- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10. Engage trigger lock.
- 2. Loosen guard and retaining nut.
- Align guard horizontally to spray a horizontal pattern, vertically to spray a vertical pattern.



### Cleanup

Flush gun after each work shift and store in a dry location. Do not leave the gun or any parts in water or cleaning solvents.

### Clean-up



Perform Pressure Relief Procedure. See Pressure Relief Procedure, page 10.

1. Remove Uni-Tip Guard and Uni-Tip.



2. Clean gun filter, Uni-Tip Guard and Uni-Tip in flushing fluid.





3. Remove siphon tube set from paint and place in flushing fluid. Use water or pump conditioner for water-base paint and mineral spirits for oil-base paint.



4. Turn engine **ON** and start engine.



Close prime valve.

5.



 Hold gun against paint pail. Disengage gun trigger lock. Gradually turn pressure control up until motor begins to drive pump. Trigger gun until flushing fluid appears.



 Move gun to flushing pail, hold gun against pail, trigger gun to thoroughly flush system. Release trigger and engage trigger lock.



8. Open prime valve and allow flushing fluid to circulate for 1 to 2 minutes to clean drain tube.



9. Raise siphon tube above flushing fluid and run striper for 15 to 30 seconds to drain fluid.



10. Turn engine OFF.



#### NOTICE

If flushing with water, flush again with pump conditioner to leave a protective coating to prevent freezing or corrosion.

11. Wipe striper, hose and gun with a rag soaked in water or mineral spirits.



 Clean Uni-Tip, Uni-Tip Guard and gasket with a soft bristle brush to prevent part failure due to dried materials. Assemble parts and attach loosely onto gun.



### Handle Bar Adjustment

To adjust height and angle of handle bars, loosen two nuts (147) and move handle bars to desired position. Then tighten two nuts (147).

**NOTE:** Handle bars can be moved to down position for storage.



## Maintenance

## Maintenance

### Striper



This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as skin injection, splashed fluid and moving parts, follow the **Pressure Relief Procedure** whenever sprayer is stopped and before sprayer is cleaned or checked, and before equipment is serviced.

**NOTE:** Minimum hose size allowable for proper striper operation is 1/4 in. x 50 ft. For detailed engine maintenance and specifications, refer to separate engine manual supplied.

**DAILY:** Check engine oil level and fill as necessary.

**DAILY:** Check hose for wear and damage. **DAILY:** Check gun trigger lock for proper operation.

**DAILY:** Check pressure drain valve for proper operation.

DAILY: Check and fill gas tank.

#### AFTER THE FIRST 20 HOURS OF

**OPERATION:** Drain engine oil and refill with clean oil. See engine manual for correct oil viscosity.

**WEEKLY:** Remove air filter cover and clean element. Replace element if necessary. If operating in an unusually dusty environment, check air filter daily and replace if necessary. Replacement elements can be purchased from your local engine dealer. **WEEKLY:** Check level of TSO in fluid pump packing nut. Add 3 to 5 drops if necessary. Keep TSO in nut to help prevent fluid buildup on piston rod and premature wear of packings.

#### AFTER EACH 100 HOURS OF

**OPERATION:** Change engine oil. See engine manual for correct oil viscosity. **SPARK PLUG:** Use only BPR6ES (NGK) or W20EPR-U (NIPPONDENSO) plug. Gap plug to 0.028 to 0.031 in. (0.7 to 0.8 mm). Use spark plug wrench when installing and removing plug.

#### Swivel Wheel



- Stripers are factory aligned, but if necessary, loosen two bolts (143) on swivel wheel assembly just enough to be able to move the wheel by hand.
- Place turnbuckle over the two mounting nubs on the frame.
- Pressurize the unit with water and Pump Conditioner and spray out several lines with the swivel assembly in the locked position. Use the turnbuckle to fine tune the alignment of the wheels until the stripes are straight.
- Tighten bolts (143).

### Maintenance

#### **Curves and Arcs**

• The swivel assembly can be adjusted to 30 degrees either side of straight ahead. Place turnbuckle over mounting nubs. Adjust to the desired arc and tighten jam nuts. If you have arcs that you paint regularly, purchase additional turnbuckles (74) and keep them set to those arc sizes.



#### Pump

- Always stop the pump at the bottom of its stroke when you take a break or at the end of the day. This helps keep material from drying on the rod, damaging the packings.
- Keep the displacement pump packing nut/wet cup 1/3 full of Throat Seal Oil (2501) at all times. The TSO helps protect the packings and rod.
- Lubricate Connecting Rod Pin every three months.
- Inspect the packing nut daily. The paint pump has a patented "Triple Life Packing System". Packing life will be extended significantly if the proper packing tightening procedure is followed.

#### PACKING TIGHTENING PROCEDURE:

Inspect the packing nut daily. 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. (Approximately 24 In lbs).

#### NOTICE

Do NOT over-tighten packings. Packings will become damaged and reduce the packing life.

#### **Grease Points**

 Fill grease points at swivel wheel and in center of drive assembly axle until grease purges from end collars. Wipe away any excess grease. Use only quality-grade water resistant grease.



### Gun

Refer to the 312363 Gun Manual for gun maintenance procedures.

## Troubleshooting

### **General Troubleshooting**



Problem	Cause	Solution
Engine Will Not Start	Engine switch is OFF	Turn engine ON
	Engine is out of gas	Refill gas tank (see engine manual).
	Engine oil level is low	Try to start engine. Replenish oil if necessary (see engine manual).
	Spark plug cable is disconnected or damaged	Connect spark plug cable or replace spark plug.
	Cold engine	Use choke.
	Fuel shut-off lever is OFF	Move lever to ON position.
	Oil is seeping into combustion chamber	Remove spark plug. Pull starter 3 to 4 times. Clean or replace spark plug. Start engine. Keep striper upright to avoid oil seepage.

Problem	Cause	Solution
Engine operates, but fluid pump does not operate	Pressure setting is too low	Turn pressure adjusting knob clockwise to increase pressure
	Uni-Tip or gun filter is clogged	Clean Uni-Tip or gun filter (see gun manual).
	Fluid pump piston rod is stuck due to dried paint	Repair pump (see pump manual).
	Connecting rod is worn or damaged	Replace connecting rod, page 36.
	Electrical power is not energizing clutch field.	Check wiring connections, page 49.
		See pressure control repair, page 27.
		Test sensor by reading resistance between the red and black wires. The resistance runs between 1.5-3k Ohms.
		Have pressure control checked by authorized Pioneer dealer.
	Clutch is worn, damaged, or incorrectly positioned.	Replace clutch, page 35.

Problem	Cause	Solution
Pump output is low	Piston ball is not seating	Service piston ball. See pump manual.
	Piston packings are worn or damaged	Replace packings. See pump manual.
	O-ring in pump is worn or damaged	Replace o-ring. See pump manual.
	Worn, missing, or improperly installed parts in suction nut	Remove suction nut and check that all parts are present and installed correctly.
	Engine speed is too low	Increase throttle setting. See <b>Startup</b> , page 11.
	Clutch is worn or damaged	Replace clutch, page 35.
	Pressure setting is too low	Increase pressure. See <b>Startup</b> , page 11.
	Uni-Tip filter or tip is clogged or dirty	See gun manual.
	Large pressure drop in hose with heavy materials	Use larger diameter hose and/or reduce overall length of hose. Use of more than 100 ft of 1/4 in. hose significantly reduces performance of striper. Use 1/4 in. hose for optimum performance (50 ft minimum).
Excessive paint leakage into	Throat packing nut is loose	See pump manual.
throat packing nut	Throat packings are worn or damaged	Replace packings. See pump manual.
	Fluid rod is worn or damaged	Replace rod. See pump manual.
Fluid is spitting from gun	Air in pump or hose	Check and tighten all fluid connections. Reprime pump.
	Uni-Tip is partially clogged	Clear Uni-Tip. See gun manual.
	Fluid supply is low or empty	Refill fluid supply. Reprime pump. Check fluid supply often to prevent running pump dry.

Problem	Cause	Solution	
Pump is difficult to prime	Air in pump or hose	Check and tighten all fluid connections.	
		Reduce engine speed and cycle pump as slowly as possible during priming.	
	Suction nut is leaking	Clean suction nut. Be sure ball seat is not nicked or worn and that ball seats well. Reassemble suction nut.	
	Pump packings are worn	Replace pump packings. See pump manual.	
	Paint is too thick	Thin the paint according to supplier recommendations	
	Engine speed is too high	Decrease throttle setting before priming pump.	
High Engine Speed at no load	Incorrect throttle setting	Adjust throttle cable as needed	
	Worn engine governor	Replace or service engine governor	

## **Airless Spray Troubleshooting**

Problem	Cause	Solution
Coarse spray	Low pressure	Increase pressure
Excessive fogging (overspray)	High pressure Material too thin	Reduce pressure to satisfactory pattern distribution. Use less thinner.
Pattern too wide	Spray angle too large	Use smaller spray angle Uni-Tip
Pattern too narrow	Spray angle too small	Use larger spray angle Uni-Tip (if coverage is acceptable, try tip in same nozzle group)
Too much material	Nozzle too large Material too thin Pressure too high	Use smaller nozzle Reduce pressure
Too little material	Nozzle too small	Use next larger nozzle Material too thick
Thin distribution in center of pattern "horns"	Worn Uni-Tip Wrong Uni-Tip	Change to new Uni-Tip Use nozzle with narrow spray angle
Thick skin of work	Material too viscous Application too heavy	Thin cautiously Reduce pressure and/or use Uni-Tip in next smaller nozzle group
Coating fails to close and smooth over	Material too viscous	Thin cautiously
Spray pattern irregular, deflected	Orifice clogged Uni-Tip damaged	Clean carefully Replace with new Uni-Tip
Craters or pock marks, bubbles on work	Solvent balance	Use 1 to 3% "short" solvents remainder "long" solvents (this is most likely to happen with material of low viscosity, lacquers, etc).
Clogged gun screens	Extraneous material in paint Coarse pigments Poorly milled pigments (paint pigments glocculate)	Clean screen. Use coarse screen if orifice size allows. Use courser screen with larger orifice tips. Obtain ball milled paint. If thinner has been added, test to see if a cover screen. Incompatible drop placed on top of paint mixes or flattens out on the paint mixture and thinners on the surface. If not, try different thinner in fresh batch of paint.

### **Field Troubleshooting**

Problem	Cause	Solution
Striper will not prime	Air leak due to: • Loose suction nut • Worn o-rings • Hole in siphon hose	<ul> <li>Tighten suction nut</li> <li>Replace o-ring (867-361) on suction seat</li> <li>Replace siphon hose</li> </ul>
	Stuck or fouled balls	(331-290) • See pump manual
Striper primes but has poor or no pressure	<ul> <li>Pressure set too low</li> <li>Filter is clogged</li> <li>Outlet valve fouled/worn</li> <li>Prime/pressure valve bypassing</li> <li>Packings and/or piston worn</li> </ul>	<ul> <li>Turn up pressure</li> <li>Clean or replace gun filter</li> <li>Service outlet valve</li> <li>Clean or replace prime valve</li> <li>Tighten packing nut with tool</li> <li>Repack unit</li> </ul>
Unit does not maintain good spraying pressure	<ul> <li>Blown Uni-Tip</li> <li>Packings and/or pistons worn</li> <li>Upper seat worn</li> </ul>	<ul> <li>Replace Uni-Tip</li> <li>Repack striper</li> <li>Replace upper seat and ball</li> </ul>
Clutch does not engage	Clutch failed. Check resistance between leads (should read between.67k Ohms).	Take to Pioneer Service Center
	Engine voltage is below 19-24 VAC	Take to Honda Engine Service Center
	Pressure Sensor Check 1.5 - 3.5k Ohms	Replace the sensor

## Repair

### Pail Bracket



#### Removal

- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10.
- 2. Remove pail (103).
- Remove two screws (22) and remove pail bracket (88).



**NOTE:** The pail bracket is adjustable to fit different pail configurations.

#### Installation

1. Replace pail bracket (88) and tighten two bolts (22).



2. Replace pail (103).

### Pressure Sensor



#### Removal

- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10.
- 2. Remove pail (103).
- 3. Use small phillips screwdriver to remove four screws (13) and remove control box cover (13).



 Squeeze sides of pressure sensor connector to disconnect pressure sensor wire from control board (17). Pull pressure sensor wire through access hole in bottom of control box (13).



5. Use two wrenches to unscrew pressure sensor (209) from swivel fitting (216).



6. Remove pressure sensor (209).

#### Installation

1. Install new pressure sensor (209) and tighten onto swivel fitting (216).



2. Feed pressure sensor wire through access hole in bottom of control box (13). Connect pressure sensor wire to control board (17).



3. Replace control box cover (13) and use a small phillips screwdriver to tighten four screws (13).



#### NOTICE

Be careful not to over tighten four screws (13). They can easily become stripped or damaged.

4. Replace pail (103).

### Pressure Control and Circuit Board

#### Removal

- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10.
- 2. Remove pail (103).
- 3. Use small phillips screwdriver to loosen four screws (13) and remove control box cover (13).
- Use a small allen wrench to loosen screw in pressure control knob (18). Remove knob.



5. Remove spacer (189) then loosen and remove hex nut (17) from pressure control.



6. **Single Engine Wire Models:** Loosen grounding nut and screw on board heat sink and remove ground wire.

#### Double Engine Wire Models:

Disconnect all wires to circuit board and Honda engine. Be sure to mark all wires to refer to when reconnecting, or refer to **Wiring Diagram** (see page 50).



7. Remove circuit board and pressure control (17).



#### Installation

1. Install new circuit board and pressure control (17).



2. **Single Engine Wire Models:** Replace grounding wire and tighten grounding nut and screw on board heat sink.

#### **Double Engine Wire Models:**

Reconnect wire(s) to circuit board and place wires back into control box.



3. Install and tighten hex nut (17) and replace spacer (189) onto pressure control.



 Turn pressure control fully clockwise and install knob (18) (knob should point to arrow on label). Use allen wrench to tighten screw on knob.



- 5. Replace control box cover (13) and use a small phillips screwdriver to tighten four screws (13).
- 6. Replace pail (103).



### **Drain Valve**



#### Removal

- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10.
- 2. Remove drain line (138) and fitting (119).
- 3. Use a wrench to loosen drain valve (113) and remove it from pump (211).

#### Installation

- 1. Thread drain valve (113) into pump (211) opening.
- Hand tighten securely. Use a wrench to tighten new drain valve into pump.
   NOTE: Tighten drain valve so fitting (119) will install from bottom.
- 3. Replace fitting (119) and drain line (138).



### Fluid Pump



#### Removal

- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10
- 2. Flush material out of striper.
- 3. Disconnect drain line from the pump (211).



4. Remove connecting rod shield (205).



5. Slowly cycle pump to move piston rod so that connecting rod pin is visible.

 Disconnect pressure sensor (209) from the pump (211) by holding sensor in place with a wrench and unscrewing the swivel fitting (216) with an additional wrench.



7. Remove retaining ring from connecting rod and slide sleeve down revealing connecting rod pin.



8. Remove hose fittings and drain valve (113).



9. Remove siphon tube/hose assembly from fluid pump by unscrewing suction nut with packing adjustment tool.



 Use wrench to unscrew two bolts (128) from front cover assembly (the fluid pump will hang loosely).



11. Remove connecting rod pin out of connecting rod to allow for removal of fluid pump from striper.



#### **Repacking the Pump**

**NOTE:** The packing kit comes completely assembled (except for the packing holder 509) ready for installation. There is no need to break it apart. Reuse your old packing holder (509).

- 1. Unscrew and remove the packing nut (516).
- 2. Push the piston rod (517) down through the packings and out of the pump.
- Use the packing removal tool (866435) to push up through the bottom of the fluid pump and remove from the top, bringing the packings, spacer, springs and holder along with it, leaving the fluid body (505) empty.

**NOTE:** Make sure all old packings and glands have been removed from the fluid body.

- 4. Clean the inside of the fluid body.
- 5. Lightly lubricate outside of new packing kit assembly (331210) with a light weight oil or Throat Seal Oil.
- Replace black o-ring (502) and the white o-ring (501) on the packing holder (509), with the new o-rings from the packing kit.
- 7. Slide the packing holder on top of the new upper packings.
- Slide the complete packing assembly down into the clean fluid pump body (505).
- Install packing nut (516) loosely, not putting any pressure on new packings.
- Remove the plastic packing tool (311465) down through bottom of fluid pump body. Lightly lubricate inside of the new packings with light weight oil or Throat Seal Oil.
- 11. Replacing the Outlet Valve Parts:
  - a. Place piston holder (331195) in a vise and slide piston into holder and lock in place with a 3/8 in. dowel.

- Use a 1/4 in. allen wrench to unscrew the outlet seat retainer (517f) from the piston.
- c. Remove the outlet seat (517d), o-ring (517e) and outlet ball (517c).
- d. Inspect the outlet ball, o-ring and seat for wear. Replace as necessary.
- e. While piston is still locked in the holder, install parts back into the piston in the following order: **ball**, **outlet seat**, and o-ring.
- f. NOTE: The outlet seat needs to be oriented properly when assembling so that the inside diameter edge chamfer of the seat faces up (mating to ball).
- Before reinstalling the outlet seat retainer, apply two drops of (113500) thread sealant on threads and torque to 20 ft-lb.
- 12. Slip the piston rod (517) up through the bottom of the fluid pump body, through the packings and into its upper position
- Tighten the packing nut until you feel a slight resistance against the Belleville Springs (513). Use the packing adjustment tool (865008), tighten another 3/4 of a turn.(Approx. 24 In Lbs)



#### Installation

- 1. Loosen the packing nut and ensure that the piston rod (517) is in its upper position in the fluid pump body. Slip the sleeve (206) and the retaining ring (203) over the piston rod.
- Push the piston rod up into the connecting rod (199) and align the holes. Insert the connecting rod pin (214) through the connecting rod and piston.
- 3. Slip the sleeve over the connecting rod pin and insert the retaining ring into the groove on the connecting rod.



 Push the two bolts (128) through the tube spacers (204) and screw them into cover assembly (210). Use a torque wrench to tighten two bolts evenly (alternating between them) to 20 ft-lb.



 Reattach hose fittings and drain valve (113). Use plumbers tape around threads to ensure a good seal.



 Reassemble the lower suction valve assembly by placing the suction seat assembly (o-ring, seat, suction ball, and suction ball guide) in the suction nut and screw onto the pump body.



 On pumps with electronic pressure control, reconnect the sensor to the pump body (211). Hold the sensor with a wrench while tightening the swivel fitting (216) with an additional wrench.



#### NOTICE

Do not turn the sensor. The cable will become damaged.

 Start striper and operate slowly to check piston rod for binding. Readjust the two bolts to eliminate binding if necessary.

- Tighten packing nut until slight resistance is felt against the belleville spring (these springs retain internal tension against the packings), then tighten an additional 3/4 turn. Place five drops of Throat Seal Oil into the packing nut.
- Run the striper at full pressure for several minutes. Perform Pressure Relief Procedure, see page 10, and readjust the packing nut (see step 8).
- Install connecting rod shield so that the small hole is in the upper right hand corner.



### Clutch





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Repair

#### Removal

- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10.
- 2. Remove pail (103).
- Disconnect and remove siphon and drain tubes.

**NOTE:** When siphon tube is removed from pump intake, be sure to catch ball cage, ball, ball seat, and o-ring or they will fall to the floor. Keep these pieces together in the same order.

- 4. Remove **Control Board Cover**, page 27.
- 5. Disconnect pressure sensor wire, page 26.
- 6. Remove Pump, page 30.
- Remove four screws (169) on clutch housing cover (130) and remove cover.
- Cut plastic wire holder (be careful not to cut wires). and disconnect clutch wire. Mark wires to refer to when reconnecting.
- Remove four top screws (175) and two bottom screws and nuts (173) and remove gear box (191).
- 10. Use a small pliers to remove clutch retaining clip (8S).
- 11. Place clutch housing on a flat surface and use two pry bars to evenly lift clutch off of shaft.

**NOTE:** The clutch installs onto a square key. Retain key when removing clutch.

#### Installation

- 1. Install key into shaft.
- Install edge grommet onto side of clutch orientation tab.
   NOTE: If the clutch is not installed correctly, a loud rattle will be heard during operation.
- 3. Align new clutch with key-way and push clutch (8U) onto shaft.
- 4. Install clutch retaining clip (8S).
- If after installing the retaining clips, there is movement of the clutch on the shaft, install supplied shim(s) as needed to remove any movement on shaft.
- Align clutch orientation tab with slot on gear box and replace clutch housing (191G). Tighten screws (173 and 175). Check gap between clutch and clutch plate (clutch should be.010 to.015 in. from gear box).
- 7. Route wires through tie strap and secure into place.
- 8. Replace clutch housing cover (130) and tighten four screws (169).
- 9. Replace Pump, page 30.
- Reconnect pressure sensor wire, page 26.
- 11. Replace **Control Board Cover**, page 27.
- 12. Reconnect siphon and drain tubes.
- 13. Replace pail (103).



### **Gear Box**





#### Removal

- 1. Perform Pressure Relief Procedure, See **Pressure Relief Procedure**, page 10.
- 2. Remove Pail Bracket, page 26.
- 3. Disconnect and remove all hoses.

**NOTE:** When siphon tube is removed from pump, be sure to catch ball cage, ball, ball seat, and o-ring or they will fall to the floor. Keep these pieces together in the same order.

- 4. Remove Pressure Sensor, page 26.
- 5. Remove **Pump**, page 30.
- 6. Remove Clutch, page 35.
- 7. Remove gear box (191).

#### Installation

- 1. Replace gear box (191).
- 2. Replace Clutch, page 35.
- 3. Replace **Pump**, page 30.
- 4. Replace Pressure Sensor, page 26.
- 5. Reconnect all hoses.
- 6. Replace Pail Bracket, page 26.

Repair

### Engine

For further information on engine maintenance and repair, see Honda Engine manual.



#### Removal

- 1. Perform Pressure Relief Procedure. See **Pressure Relief Procedure**, page 10
- 2. Remove Pail Bracket, page 26.
- 3. Remove Gear Box, page 36.
- 4. Remove Drive Chain, page 38.
- Remove three set screws (8C) and clutch adapter (8A). Remove key (8F) from shaft.



 Remove four hex nuts (8M) and washers (8K) between clutch housing and engine.



 Disconnect engine wire(s). Be sure to mark wires to refer to when reconnecting.



 Use wrench to remove four engine bolts (5) and remove engine (3) from engine mount bracket (1).





#### Installation

1. Install new engine (3) into engine mount bracket (1) and use wrench to tighten four engine bolts (5).



2. Connect engine wires.



 Replace four hex nuts (8M) and washers (8K) between clutch housing and engine.



 Install key (8F) into shaft. Replace clutch adapter (8A) and tighten three set screws (8C and 8B). Torque setscrew 8C to 25 ft-lb. Torque set screw 8B to 12 ft-lb. Clutch adapter plate should be.010 to.015 in. from clutch.



- 5. Replace Drive Chain, page 35.
- 6. Replace Gear Box, page 36
- 7. Replace Pail Bracket, page 26.

## **Parts Lists**



i ui i			041	Ref.	Part	Description .	
Def	Dort	Description	Qty	45	124227	SCREW, cap, hex hd,	10
Ref.	Part	Description	• ,			5/16-18x1.00	
2	342577	LABEL, SS3650,	1	46**		CONNECTOR, bullet	1
		(Models 205401		17**		male.180	4
		(1000015-303401,		47		bullet female 180	I
	342578	LABEL, SS4050.	1	49	100333	SCREW cap hex hd	4
		Gearbox Cover		50**	100000	TRIM, edge	1
		(Models-305402,		51	103473	STRAP, tie wrap	1
		865936)		52**		BASE, mounting,	1
	342465	LABEL, Fieldstripe,	1			wire, harness	
		Cover		53	867759	CONNECTOR, male,	1
2 🛦	212172		1	FC	060016	3/8 tube x 1/8 pipe	4
3	342473	warning	I	20 58	121283	EITTING albow 45	1
4	342506	LABEL.	1	50	121203	dea street	I
•	0.2000	never/always LP&SL	•	59	867742	HOSE.whip.3/8" x 6'	1
5		LABEL, identification	1			lg	
12	248217	HOSE, drain	1	60	305277	ĔNCLOSURE,	1
13	331290	HOSE, suction hose	1			control board	
47	005040	assy		61	865676	CONTROL, pressure	1
17	305343	BRACKE I, mounting	1	~~	040500	(includes 47, 46)	
23**	100214	MASHER lock	Л	62	342520	LABEL, pressure	1
23	331342	SCREW 10-24x 50	6	03	331104	OD 23 1	I
- ·	001012	PH PN HD	Ũ	64	867291	KNOB	1
25	100718	WASHER	6	65	342445	LABEL, caution	1
26	305268	COVER, engine	1	71	164672	ADAPTER	1
		mount		80	114530	ENGINE, gas, 5.5 HP,	1
27	866211	CLIP,J	1			Honda GX160	
28	866334	SENSOR	1	81**		KEY, square, 3/16 x	1
29	24013	engineer	I	00	004400	1.35 00051W and 5/40 04	
33	100837	SCREW flange hex	4	82	331496 24E115	SCREW, Set 5/16-24	1
34	867496	SCREW.1/4-20 x	2	85**	24E115	NUT iam hex	4
-		1.125 HX HD		86**		NUT. locking.	3
35	342461	LABEL, engine	1			distorted thread	Ũ
		speed		87**		WASHER, lock,	3
36**		RING, retaining, exter	2			spring	
	007000	nal,15mm	4	88**		ADAPTER, clutch	1
3/++	867238	SVVIVEL, ftg. cwivol 1/4 x 1/4	1	0.0**		assembly	
38**		KEY 5mm x 25mm	1	89		CLUTCH,	1
39	162453	FITTING (1/4NPSM x	2	00**		SCREW pap head	3
		14NPT)	_	30		phillips	5
41	136217	NUT, 1/4-20 jam	2	92	156823	FITTING, union	1
		ny-lock st		-		swivel	
42	100527	WASHER, plain	6	93	116504	FITTING, tee, run	1
43	110838	NUI, lock	6	94	102814	GAUGE, press, fluid	1
				102	866428	VALVE, relief/priming	1

## Parts Lists

Qty

Qty

				۹.,
R	ef.	Part	Description	
	105*	331051	KIT, suction seat	1
	106*+		PACKING, o-ring 016	1
			FX75	
	107*+		PACKING, o-ring 022	1
	108*+		RING, backup	1
			-022PTFF	
	143	867539	SCREW,5/16-18 x	2
			3.75 HX HD	
	168++		SCREW, shoulder,	2
			socket, modified	
	169++		SCREW, cap, sch	2
	170++		COVER, front assy	1
	171++		YOKE, cross head	1
			assy	
	172	331062	SPRING, ret. spring	1
	173	331117	SLEEVE	1
	174	331074	SPACER,2.691 long	2
	175	866482	PUMP	1
	177++		GEAR, crank.32 assy	1
	178++		PACKING, o-ring	1
	180++		BEARING, ball	1
	181++		SHAFT, pinion	1
	182++		BEARING, ball	1
	183++		HOUSING, end bell	1
	184++		RETAINER, ring	1
			internal, 40mm	
	185	866082	PIN, cross	1
	186	113783	SCREW, machine,	2
	4.07	040000		~
	187	C19209	WASHER, lock	2

+ Included in 16W484 Kit, O-Ring

++ 24E861 Kit Repair Gear Box

\* Included in 331051Kit, Suction Seat Assy.

\*\* 301666 Clutch Assembly

▲ Replacement Danger and Warning labels, b vtags, and cards are available at no cost.



### **Pump Parts**



### **Pump Parts List**

			QLJ
Ref.	Part I	Description	
1*	331014	MALE GLAND	2
2*	331016	PACKING	6
		POLYETHYLENE	
3*	331308	FEMALE	1
		ADAPTOR	
4	331011	FLUID PUMP	1
		BODY	
8	331051	SUCTION SEAT	1
9	331034		1
10+	331314		1
11.	221026		4
11+ 101*	111/67	O PING	1
12∓ 13⊥*	331027		1
14+	551027	PISTON	1
15*	331018	SPACER	1
16*	331025	WASHER SPRING	3
17*	331022	MALE GLAND	1
18*	331023	PACKING	3
		POYETHYLENE	
19*	331021	FEMALE GLAND	1
20	331019	PACKING	1
		HOLDER	
21	331037	PACKING NUT	1
22*	331307	PACKING	2
		LEATHER	
23*	331306	PACKING	4
0.4*	407040		
24" 25*	107313		1
25	108//1		1
20 157**	100000		1
157		SEAT, SUCTION	I
158**++			1
159**++		PACKING O-RING	1
160**++		RINGBACKUP	1
			•
*	224040		
	331210		1
+ ** INCU	221083	FISTON ASST	
INCLU		51051	

++ INCLUDED IN O-RING KIT 16W484

## Parts



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### **Parts List**

			Qty
Ref.	Part	Description	•
1	342582	LABEL, SureStripe Handle,	1
		(Models-305401, 305402, 865935,	
	342585	865936) LABEL, Fieldstripe,	1
		(Model-305406)	
7	305150	HOLDER, gun assy.	1
8	289316	GUN,500,4 Finger	1
		(Models-305401, 305402, 305406)	
	24H289	GUN, 009,	1
		(MODELS-865935, 865936)	
9	865674	HOSE, paint hose $1/4 \times 50^{\circ}$	1
23	100214	WASHER, lock	4
45	124227	SCREW, cap, hex	3
67	102040	NUT, lock, hex	1
68 69	158223	WASHER, special	2
70	113469	SCREW, cap,	1
99	111145	hex hd KNOB, pronaed	1
112	16P601	LABLE, throttle	1
113	309395	FRAME, w/swivel	1
117 118*	867318 867780	NUT, locking SCREW, hex hd	4 4

			Qty
Ref.	Part	Description	
119*	123979	HOOK, hose	3
120	123938	GRIP, handle	2
121	866520	LEVER, assembly	1
122	305315	HANDLE, right	1
124	305105	LEVER,128 right hand	1
125	305079	WIRE, swivel	1
127	305314	HANDLE, left	1
128	867419	CAP, tube, round	2
129	867638	STRAP, two channel	2
130	867487	SCRW,#4-40X. 50log flat	2
131	143029	COLLAR, screw set	4
132	301166	WHEEL, pneumatic	2
133	305039	SPACER,.75" x.50"	2
134	867732	WASHER, wave washer for 5/8 axle	2
139	136133	RING, retaining	1
140	866026	AXLE,5/8 x 21.81" lg	1
160	305089	INSERT, cable	2
161	136131	CHAIN,sash #8x7"	1
267	139353	ARM, sg short	1
268	143027	BALL, guide	2
273	867125	CLAMP, arm	1
274	305108	PLATE, gun arm	1
2/5	222385	LABEL, safety,warning (not shown)	T

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

### Parts



### **Parts List**

			Qty
Ref.	Part	Description	
10	278723	GASKET, pail	1
11	16D431	GROMMET	1
12	17D469	HOSE, drain	1
13	331290	HOSE, hose suction	1
23	100214	WASHER, lock	8
45	124227	SCREW, cap, hex	10
67	102040	NUT. lock. hex	4
74	136231	TURNBUCKLE	1
		12-1/4 max (not shown)	
76	24U241	KIT, pail cover	1
126	866047	CABLE, assy 80.75"	
131	143029	COLLAR, screw, set	: 4
135	113783	SCREW, machine, PN HD	4
136	17E109	CLAMP, brake, hold down	1
138	867107	CAP, tube, square	1

			Qty
Ref.	Part	Description	
141	867520	SCREW, cap, socket head	2
142	865010	SPACER, tube	2
143	867539	SCEW,5/16-18 x 3.75 hex hd	2
144	867139	PIN, cotter	1
145	867021	NUT, hex slotted, 5/8-18	1
146	867230	BEARING, flanged	2
147	145006	WASHER, plain	1
148	139355	SCREW, self drilling	2
149	867622	CLAMP, spring	1
150	154628	WASHER	1
155	305160	KIT, swivel lock assy.	1
157	305261	CABLE, holder	1
158	101566	NUT, lock	4
159	305141	ADJUSTER, cable	1
160	305089	INSERT, cable	2
163	136230	AXLE, front	1
164	305253	CLAMP, swivel	1
165	C19837	SCREW, cap, socket hd	2
166	111841	WASHER, plain 5/8	4
167	119542	WHEEL, small	1

### **Gun Arm Parts**



### **Gun Arm Parts List**

			Qty
Ref.	Part	Description	•
45	124227	SCERW, cap, hex	1
		hd,5/16-18 x 1.00	
100	866043	CABLE assy	1
159	305141	ADJUSTER, cable	1
160	305089	INSERT, cable	1
250	867513	SCERW,3/8-16 x	2
		1.75 hx hd	
251	867653	BLOCK, swivel	1
		clamp	
252	305158	SCERW, shoulder,	1
		socket head	
253	305154	BRACKET, clamp	1
254	867627	SPRING,	1
		compression	
255	100186	WASHER, lock,	1
		internal tooth	
257	140045	NUT, hex, jam	2
258	305155	LEVER, lever - gun	1
		holder assy	
259	305079	WIRE, swivel	1
260	305159	BEARING, sleeve	2
		bearing	
261	866339	SCREW, shoulder	1
000	005450	screw 5/16 x 1.25	~
262	305152	CLAMP, clamp	2
000	005457	outer - casting	~
263	305157	KNOB, wing	3
264	100307		1
265	305161		2
266	305156	WASHER, flat	2
200	143027	HOLDED aur	4
209	303297	ROLDER, guil	1
212	124234	box 2/8 16x1 CP 5	I
		11CX,3/0-10X4,GR.3	



### **Pressure Control Wiring Diagram**

Engine - Single Wire Models:



			Qty
Ref.	Part	Description	
3	114530	ENGINE, gas	1
13	305277	ENCLOSURE, mach	1
17	865676	KIT, control, pressure	1
		(includes 246, 247)	
209	331294	SENSOR, assy	1
246	117316	CONNECTOR, bullet M	1
247	867095	CONNECTOR, bullet F	1
248	24E873	WIRE, control board	1
249	24E874	WIRE, control board	1

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### Pressure Control Wiring Diagram

#### Engine - Double Wire Models:



Ref	Part	Description	Qty
3	114530	ENGINE, gas	1
13	305277	ENCLOSURE, mach	1
17	865676	KIT, control, pressure	1
		(includes 246, 247)	
209	331294	SENSOR, assy	1
246	117316	CONNECTOR, bullet M	1
247	867095	CONNECTOR, bullet F	1
248	24E873	WIRE, control board	1
249	24E874	WIRE, control board	1

Technical Data

## **Technical Data**

#### Sure Stripe 3650 (Model 305401- 865935)

Maximum working pressure Maximum delivery gpm (lpm) Maximum tip size Motor Weight 3000 psi (20.7 MPa, 207 bar) 0.70 (2.65) 0.027 in. Honda GX120 166 lbs

#### Sure Stripe 4050 (Model 305402-865936)

Maximum working pressure Maximum delivery gpm (lpm) Maximum tip size Motor Weight 3000 psi (20.7 MPa, 207 bar) 0.80 (3.03) 0.029 in. Honda GX160 166 lbs

#### FieldStripe Plus (Model 305406)

Maximum working pressure Maximum delivery gpm (lpm) Maximum tip size Motor Weight 3000 psi (20.7 MPa, 207 bar) 0.80 (3.03) 0.029 in. Honda GX160 171lbs

# Airlessco Standard Warranty

## Airlessco Standard Warranty

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

Original Instructions. This manual contains English. MM 3A2690A

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