

# NewRider™ 1700 HPA Airless Ride-on Sprayer



1700 Jasper St., Unit F, Aurora, CO 80011 T 800.624.6706 F 303.364.7796 • [Newstripe.com](http://Newstripe.com)

NewRider™ 1700 HPA Manual / 4026.0218



# NewRider™ 1700 HPA Airless Ride-on Sprayer

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**Thank you!** For your purchase of the Newstripe NewRider™ 1700 HPA Ride-on Airless Sprayer.

Please read over the instructions and make sure you understand operating procedures before using the unit.

Please check the serial number on your unit. This Manual is for units with serial number 1015159 and above only. For units with serial numbers below 1015159, please contact Newstripe for the correct manual.



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**ALWAYS wear safety goggles or protective eye-wear when operating the unit!**

## PRECAUTIONARY WARNING!



- Please read and understand all operation instructions as detailed in this manual. Failure to follow specified instructions may result in equipment damage or serious injury to personnel up to and including death!
- **Moving equipment can cause severe injury.** Make sure area is clear of all personnel or obstacles before operation.
- **ALWAYS** stay seated while vehicle is in motion.
- **ALWAYS** keep hands and feet inside the perimeter of the vehicle.
- **NEVER** operate any moving vehicle under the influence of drugs or alcohol.
- **Skin Injection Hazard:** High Pressure spray can inject toxins into blood stream. If injection occurs, seek emergency medical treatment.
- **ALWAYS** release pressure in the system before changing or cleaning the spray tip.
- **ALWAYS** use the nozzle tip guard.
- **ALWAYS** engage the **Trigger Lock on the spray gun** before removing the spray gun for hand operation.
- **NEVER** place your hands or any body parts in front of the spray gun.
- **NEVER** point the spray gun at or spray other persons or animals.
- **NEVER** clean the spray tip while it is attached to the spray gun. Remove the spray tip from the gun to clean the tip guard.
- **NEVER** remove spray tip while cleaning the pump.
- **NEVER** use pliers to tighten or loosen high pressure fittings on Outlet side of pump.
- Use only in well-ventilated area.
- Always consult your Facility Safety and/or Personnel Department for specified safety protocols prior to operating this equipment.



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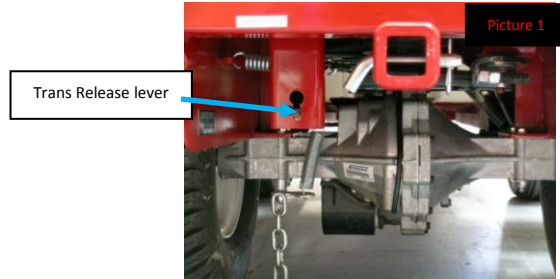
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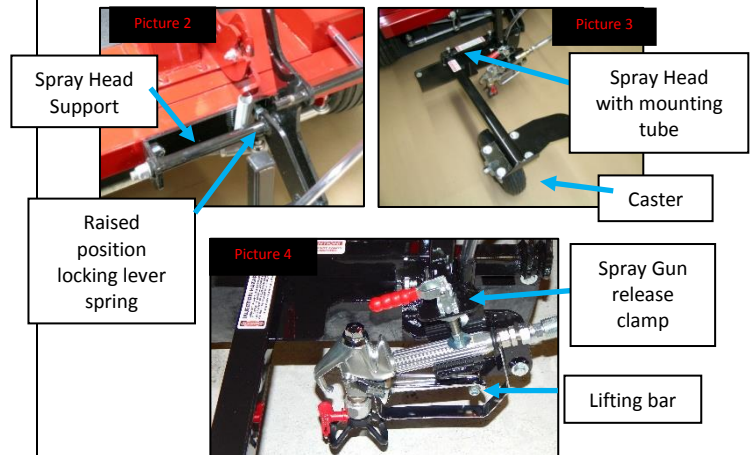
## ASSEMBLY

1. Check for any damage that may have occurred during shipment. Advise factory immediately if you see any damage. Remove the unit from the crate by removing the top boards, then the boards at the ends of the crate. Remove the tie down straps and then remove any shipping cartons.
2. Access the transaxle release lever at the rear of the machine. Pull the lever up, push in and then down to disengage. (Picture 1)



3. Release parking brake if applied. You should be able to roll the machine out of the crate by pushing on the rear bumper. **DO NOT STAND IN FRONT OF THE MACHINE WHILE ROLLING OUT OF CRATE.**
4. Locate the battery access cover in front of the purge tank. Remove the 4 bolts with washers and access cover.
5. Connect the battery ground cable to the negative side of the battery. Re-install battery cover.
6. Mount the spray head support by aligning the two holes in the bumper bracket with the two holes in the frame. Insert two ½"x3" bolts in the holes from the front. Place one washer and one nylock nut on each bolt and tighten.
7. Cut the tie that secures the lift lever lock spring to the machine. Hook the bottom of the spring into the loop in the bottom of the mounting bracket.
8. Press on foot release for the spray head (lever on the left side of the steering column) to lower the spray head support tube.
9. Mount the spray head caster assembly by sliding the caster arm onto the spray head support tube and tighten bolts. The caster wheel may be adjusted to the left or right so that the rear wheels will clear the striped line when turning. (Picture 2)
10. Slide the spray gun mounting bracket over the upright on spray head support tube and tighten bolt. Adjusting the spray gun mounting bracket up or down will adjust the spray width. (Picture 3)

11. Place the spray gun in the holder without the hose attached and secure with the clamp. (Picture 4)
12. The spray gun may have to be moved forward or backward in the clamp so that there is approximately 1/8" of space between the trigger and the lifting bar. This should also leave enough room to push the trigger lock sideways. (Picture 4)
13. If the trigger lock will not push release the gun clamp and slide gun forward or backward until you can push the trigger lock. Re-clamp gun.  
**NOTE:** To release trigger lock push the lock in on the right side (inside) of the gun.
14. Attach one end of the spray hose to the pump outlet with a ¾" wrench and the other end to the spray gun. To secure the hose on the spray gun you will need a 3/4" and a 9/16" wrench as it has a swivel fitting.
15. Loop the additional hose over the hanger on the left side of the spray tank. Make sure hose does not contact the tire. Route the hose through the snap link and around post at corner of left fender.
16. Always check the oil level in the engine before starting (SAE 10W30)
17. Make sure the static chain is contacting the ground.  
**NOTE:** The NewRider 1700 is Equipped with an EPA/Carb approved recovery system and tethered fuel cap. **DO NOT SERVICE OR REMOVE THE VAPOR CANISTER OR TEATHERED FUEL CAP FROM THE MACHINE. DO NOT REPLACE ANY FUEL SYSTEM PARTS WITH NON APPROVED PARTS.**



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## DRIVING OPERATIONS

1. Before starting, set the brake with the hand lever nearest the seat.
  2. Place throttle lever in FULL FORWARD position. This will set the choke.
  3. Start the engine, when warmed up, move the throttle to  $\frac{3}{4}$  open. (where engine runs smoothly) Engine does not need to run at full speed to run the spray pump.
  4. To move forward, release the parking brake and press on the top of the right hand foot pedal.
  5. Pushing the base of the pedal will move the machine in reverse.
  6. To stop, release foot pedal.
- NOTE:** If machine does not move set parking brake and move to the rear of the machine. Pull the Transaxle release lever up and back to lock into slot. Enter the machine and release the parking brake. It should now move.
7. To travel long distances when not spraying, or to load the machine onto a trailer, lift the spray head using the lift lever on the left hand side of the steering column. The spray head will lock in position when fully lifted. This also locks the spray gun so that it may not be activated when the spray head is lifted.
  8. When loading on a trailer approach the ramp slowly to assure the gun will clear the ramp. You may have to raise the gun or possibly remove it if the ramp is too steep.

## SPRAY OPERATIONS

**First time use or after extended periods of not using the machine use water to test operations and settings. The NewRider 1700 is designed to be used with water based athletic field marking paints.**

1. Add 5 gallons of water to spray tank and 1-2 gallons of water to the purge tank
2. Push outlet prime button 3 times (Brass button located to the left of the inlet hose fitting at the bottom of the pump block)
3. Turn the pressure control knob (brass knob) clockwise until it stops. (do not over turn)
4. Turn the Spray control knob (black knob) to the Prime/Re-circulating position. (Circular arrow symbol in-line with Arrow on side of pump housing)
5. Make sure trigger lock on spray gun is released. (The trigger lock button is pushed in on the right side (inside) of the gun.
6. Check that spray tip arrow on spray gun points toward the ground.
7. Check that the Tank feed valve (located under the left side of tank by white filter) is in the spray position (handle in line with fittings) and purge feed valve is in closed position. (handle crosswise to fittings)
8. Start engine as indicated in steps 1-3 in above driving operations.
9. Engage pump by moving engaging lever to ON position. (Lift and place in upper notch)
10. With spray control knob in prime position, fluid should flow through the re-circulating hose back to paint tank.
11. Let sprayer run for one minute or until air bubbles have disappeared from the re-circulating hose.
12. Turn Spray Control knob to spray position. (Spray gun symbol in line with arrow on side of pump housing) **NOTE:** When the pump reaches pressure, there will be a knocking noise. This is normal.
13. Activate foot pedal trigger and paint will spray from the gun. Releasing pedal will stop spray.
14. Adjust pressure by turning pressure control knob counter clockwise until spray pattern decreases, then increase pressure by turning clockwise just to where you get a good even spray pattern.
15. Adjust spray gun height for proper line width.
16. **When finished spraying or if machine will be left unattended for any amount of time, turn Spray Control Knob to Prime/re-circulating Position, and pull spray trigger to release pressure from the system**



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## **OPERATIONAL NOTE!**



- NOTE: If the pump primes and air bubbles continue to appear in the hose after one minute, the suction hose fitting may not be tight enough or the rubber washer may be worn. Turn off machine, turn spray valve to prime position and depress spray trigger to open gun and release pressure.
- Remove garden hose fitting at the inlet side of the pump, depress inlet valve stem to make sure it is free, inspect washer to make sure it is seated and in good condition. Re-attach garden hose fitting making sure that it is tight. You may have to snug it with pliers if you continue to get air bubbles. Start engine and repeat first steps for operation.
- If the pump will still not prime, back out the pressure control knob until loose (several turns). Then turn the spray control knob to the prime/re-circulate position. Push Outlet Prime Button three (3) times (Button is located at the lower left corner of pump near the bottom.) Let the pump run for one minute and then turn in the pressure control knob (clockwise) just until it stops. Pump should now prime. If pump will still not prime, PLEASE CALL THE FACTORY.



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## SPRAY TIP CLEANING DURING USE

1. Place the Spray Control Knob in the re-circulating position and press spray trigger pedal to release the pressure.
2. Turn spray tip arrow on spray gun so that the arrow points toward the gun.
3. Turn spray control knob to spray position and trigger gun. This should clear the gun. Turn spray control knob to prime position, press spray trigger pedal to release pressure.
4. Reverse the tip so the spray tip arrow on the spray gun points towards the ground.
5. Turn the spray control knob to spray and resume spraying.
6. If the spray tip appears to be clean and the gun will still not spray, replace the gun filter located in the handle. **DO NOT** attempt to clean clogged gun filter you must replace it.
7. If the spray gun is still clogged, proceed to cleaning procedures below.

## CLEANING PROCEDURE

1. The NewRider 1700 is equipped with an on-board purge tank that holds up to 2.5 gallons of water. Make sure this has 1-2 gallons of water.
2. Check that the ball valve (Labeled purge feed, on the left side just forward of the pump) is in open position (valve handle in line with hose)
3. Turn tank feed selector valve (located below tank on left side) to the closed position (handle crosswise to fittings)
4. Turn Purge feed valve to open position (handle in line with fittings)
5. Turn spray control knob to prime/re-circulating position.
6. Start engine and move the pump engaging lever to the ON position (lift and place in upper notch) watch until fluid returning to tank runs clear
7. Turn spray control knob to spray position and trigger gun until spray runs clear
8. Clean spray tip if needed with a nylon bristle brush. **DO NOT** use brushes with metal bristles or any metal object to clean the spray tip of dried paint. Replace the tip if it cannot be cleaned.
9. If the spray tip appears to be clean and the gun will still not spray, replace the gun filter located in the handle. **DO NOT** attempt to clean clogged gun filter you must replace it.
10. Drain paint tank of any unused paint. You may now rinse the inside of the paint tank.  
**NOTE:** you may want to place the machine on a slight incline so the drain outlet of the tank is at the lowest point.
11. With most of the water drained from the purge tank, (leave about 1" depth) add approximately 4 ounces (1/2 cup) of \*pump protector into the purge tank.
12. Start engine, leave spray control knob in prime/re-circulating position and pump engaging lever in the ON position. Watch until you see the liquid protector appear from the return hose.
13. Move the pump engaging lever to OFF and turn off machine.
14. Check the in-line pump filter once each week. (White plastic filter at bottom of tank near tank selector valve). Turn the tank feed selector valve to OFF position. Unscrew bottom half of filter.
15. Clean filter bowl and screen and re-install.  
**NOTE:** There is a gasket between the lower half of filter housing and the upper portion. Check that this is in-place when installing the bottom half of the filter. **Hand Tighten Only.**

## CLEANING FOR EXTENDED PERIODS OF NON-USE



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## OR IN FREEZING CONDITIONS

1. Clean as indicated in CLEANING PROCEDURES, but drain purge tank then add 16 ounces (1/2 bottle) of pump protector to the purge tank.
2. Place the spray control knob in the spray position and activate the spray trigger just until you see the liquid protector spray from the gun.
3. Place the spray control knob in the prime/re-circulation position and operate pump until you see the liquid protector in the re-circulating hose. Turn off pump engaging lever.
4. Remove as much fuel from the engine gas tank as you can, or add fuel stabilizer to fuel.
5. Close fuel shut off and run engine until it runs out of gas
6. Trigger spray pedal to remove any pressure in the system.
7. Unit may now be stored in freezing temperatures
8. Drain and change engine oil in the spring.



## PRECAUTIONARY WARNING!



- **ALWAYS** release pressure in the system before changing or cleaning the spray tip. (Place the Spray Control Knob in the re-circulating position, turn off sprayer and squeeze spray trigger to release pressure)
- **NEVER** use fuels to clean the equipment
- **DO NOT** use solvents containing halogenated hydrocarbons such as methyl bromine, carbon tetrachloride and ethyl iodine
- **DO NOT** attempt to clean a clogged gun filter. You must replace it.
- **DO NOT** use brushes with metal bristles or any metal object to clean the spray tip of dried paint. Replace the tip if it cannot be cleaned.



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## MAINTENANCE

| ITEM                        | CHECK   | MAINTENANCE ACTION  |
|-----------------------------|---|---|
| Engine Oil<br>10W-30        | Before each use                                   | Change oil after first 20 hours of operation and then, every 100 hours  |
| Bypass (re-circ) hose       | Before each use                                   | Replace if nicked or has cuts.  |
| Spark Plug & Air Filter     | Every 4 Months                                    | Clean or change as needed   |
| All pivot points            | Before each use                                   | Replace if nicked or has cuts.  |
| Suction filter              | Before each use                                   | Every 50-250 gallons<br>or if restricted  |
| Spray Gun filter            | Every 25 gallons or if gun does not spray         | REPLACE ONLY DO NOT CLEAN every 50-250 gallons or if becomes clogged.   |
| Spray Gun Clamp and Cable   | Check Weekly                                      | Spray with silicone spray   |
| Spray Tip                   | Before each use                                   | Replace if spray pattern becomes uneven or if tip becomes worn.   |
| Front axle steering knuckle | Lubricate weekly                                  | Use high quality bearing grease   |
| Wheels                      | Lubricate weekly                                  | Check air pressure. Use high quality bearing grease for front wheels  |
| Pump Engaging lever         | Lubricate weekly                                  | Spray with light machine oil (3 in1)  |
| Battery                     | Check monthly                                     | Sealed battery  |
| Air Filter                  | Check monthly                                     | Change if blocked off with dirt.  |
| Transaxle filter            | Every 12 months                                   | Change transaxle oil and filter the first 75-100 hours then every 400 hours   |
| Transaxle oil               | Check if performance is off or transaxle is noisy | Open oil level check port, if no oil runs out top off with <b>Mobil 1 Full Synthetic 15W50 Motor Oil ONLY.</b><br><b>Failure to use the correct oil type and viscosity will cause damage to the transaxle and void the warranty</b> |
| General cleaning            | As needed   | DO NOT use high pressure power washers. DO NOT use solvents.<br>Soap and water only   |

## ENGINE LUBRICANT AND PARTS

| ITEM         | SPECIFICATIONS                                 |
|--------------|--|
| Engine       | Briggs & Stratton 10.5 HP Power Built 10004004 |
| Oil Capacity | 42-44oz 10W-30                                 |
| Spark Plug   | Part number 10004217                           |
| Air Filter   | Part number 10004216                           |



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## PARTS LIST

| <u>Item Number</u> | <u>Description</u>   | <u>Part Number</u> |
|--------------------|--|--------------------|
| 1                  | Battery, YTX20H  | 10003163           |
| 2                  | Transaxle release/engaging lever                           | 10004101           |
| 3                  | Parking brake lever  | 10001817           |
| 4                  | Spring, (seat lift)  | 10001756           |
| 5                  | Empty seat safety switch                                   | 10002437           |
| Not Shown          | Neutral switch (under right front fender on shift linkage) | 10002913           |
| Not Shown          | Brake safety switch (under seat console)                   | 10002437           |
| 6                  | Seat retention pins, 2 required                            | 10003214           |
| 7                  | Engine throttle (part of throttle cable)                   | 10002414           |
| 8                  | Ignition switch  | 10004007           |
| 9                  | Air Filter housing   | N/A                |
| 10                 | Purge tank shut off valve                                  | 10004112           |
| 11                 | Purge tank   | 10003198           |
| 12                 | Spray head   | 10003746           |
| 13                 | Swivel Caster  | 10001434           |
| 14                 | Spray trigger operating cable                              | 10000820           |
| 15                 | Paint hose, 25', 3000 psi with fittings                    | 10000458           |
| 16                 | Spray gun, airless (619 tip)                               | 10005115           |
| Not shown          | Spray gun filter (2 pack)                                  | 10000641           |
| 17                 | Spray Gun Release clamp                                    | 10001579           |
| 18                 | Spray gun mounting bracket assembly                        | 10003263           |
| 19                 | Lifting bar, spray gun trigger                             | N/A                |
| 20                 | Spray Trigger  | N/A                |
| 21                 | Trigger lock   | N/A                |
| 22                 | Spray Tip guard  | 10003936           |
| 23                 | Spray tip, Select size                                     |                    |
|                    | 517 2"-6" line   | 10000508           |
|                    | 619 4"-8" width (standard)                                 | 10003824           |
| 24                 | Height adjustment nut                                      | N/A                |
| 25                 | 25 Gallon Polyethylene tank                                | 10004005           |
| 26                 | Tank drain valve   | 10002366           |
| 27                 | Bulkhead fitting, tank drain                               | 10002407           |
| 28                 | ½" Ball Valve (common)                                     | 10004110           |
| 29                 | In line filter   | 10000369           |
| Not Shown          |  | 10000100           |
| Not Shown          |  | 10001543           |
| 30                 | Shifter pedal, forward/reverse                             | 10004087           |
| 31                 | Spray trigger pedal  | 10004088           |
| Not Shown          |  | 10000692           |



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## PARTS LIST CONTINUED

| <u>Item Number</u> | <u>Description</u>                           | <u>Part Number</u> |
|--------------------|--|--------------------|
| 32                 | Spray head lifting lever/spray head support  | 10003751           |
| 33                 | Spray head release/lock lever                | 10003725           |
| 34                 | Pump Engaging lever                          | 10004066           |
| 35                 | Purge feed hose                              | 10004039           |
| Not shown          | Purge outlet hose (purge tank to shut off)   | 10004038           |
| 36                 | Lift lever lock spring                       | 10000692           |
| 37                 | Tank outlet hose                             | 10004041           |
| 38                 | Belt, main drive, AX39                       | 10001218           |
| 39                 | Pulley, Tensioner, drive and pump belts(2)   | 10003815           |
| 40                 | Spring, Tensioner, Main Drive                | 10002897           |
| 41                 | Belt pump drive, 4L360                       | 10004008           |
| 42                 | Pulley, Pump drive                           | 10003819           |
| 43                 | Pulley, Pump                                 | 10003053           |
| 44                 | Spring, Pump drive idler (Not Shown)         | 10004017           |
| 45                 | Pulley, Main drive                           | 10004010           |
| 46                 | Pulley and fan assembly, Transaxle           | 10002999           |
| 47                 | Filter, Transaxle oil                        | 10003778           |
| 48                 | Parking Brake mechanism, transaxle           | N/A                |
| 49                 | Parking brake linkage                        | 10004081           |
| 50                 | Tie Rod                                      | 10004034           |
| 51                 | Steering Wheel                               | 10003241           |
| 52                 | Seat   | 10003302           |
| 53                 | Drag Link                                    | 10004035           |
| 54                 | Engine 10.5 HP Briggs & Stratton Power Built | 10004004           |



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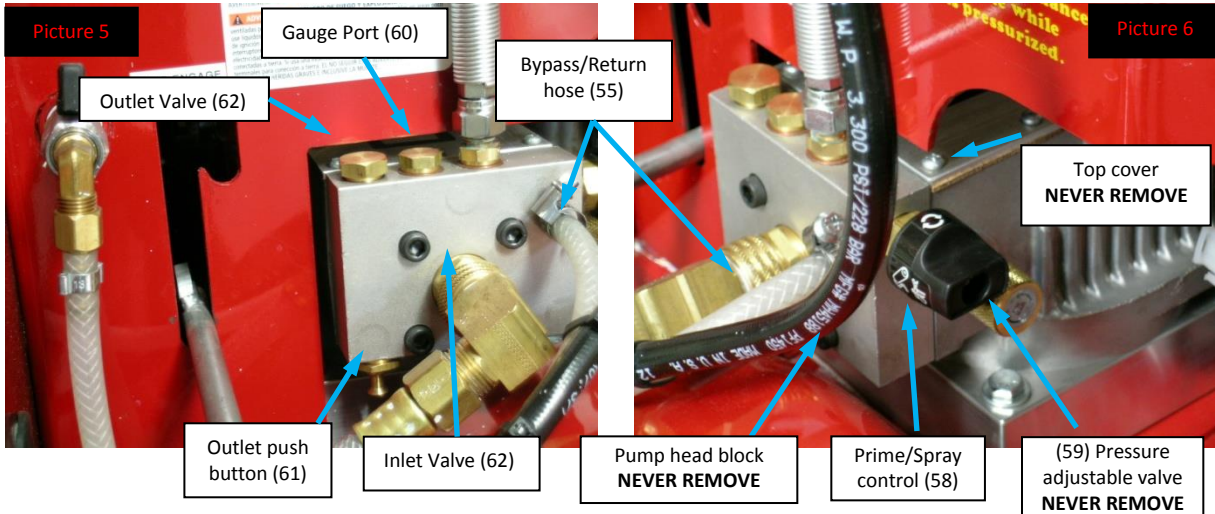
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## AIRLESS PUMP PARTS

| <u>Item Number</u> | <u>Description</u> | <u>Part Number</u> | <u>Item Number</u> | <u>Description</u>    | <u>Part Number</u> |
|--------------------|--------------------|--------------------|--------------------|-----------------------|--------------------|
| 55                 | Return/bypass hose | 10004040           | 59                 | Pressure control knob | 10000380           |
| 56                 | Spray pump         | 10000407           | 60                 | Gauge Port            |                    |
| 57                 | Pump Inlet hose    | 10004042           | 61                 | Outlet Push button    | 10000806           |
| 58                 | Prime/Spray Valve  | 10004000           | 62                 | Inlet valve           | 10002745           |



**NEVER REMOVE FRONT COVER, PRESSURE ADJUSTING VALVE OR THE PUMP HEAD BLOCK.**  
**THIS WILL VOID THE WARRANTY.**  
**CALL THE FACTORY FOR SERVICE LOCATIONS IF THESE ITEMS REQUIRE SERVICE.**

| ITEM               | CHECK   | *REPLACE  |
|--------------------|---|---|
| Outlet push button | Before each use   | Every 1000-1500 gallons or if leaking                   |
| Inlet valve        | If pump does not prime<br>check washer at same time                     | Every 500-1000 gallons.<br>Washer- Every 50-250 gallons |
| Outlet valve       | If pump does not prime<br><i>Outlet Valve/ Push Button Kit 10005102</i> | Every 500-1000 gallons                                  |
| Prime/Spray Valve  |   | Every 1000-1500 gallons<br>or if it stops working       |
| Suction tube       | Before each use   | Check for nicks and cuts                                |
| Bypass/Return hose | Before each use   | Check for nicks and cuts                                |
| Spray Pump         | Before and after each use   | Use pump protector every<br>time you store the machine. |
| Pump inlet hose    | Before each use   | Replace if nicked or has cuts                           |
| Spray hose         | Before each use   | Replace if nicked or has cuts                           |

\*Interval ranges vary greatly due to the wide variety of paint manufacturers.



Picture 7

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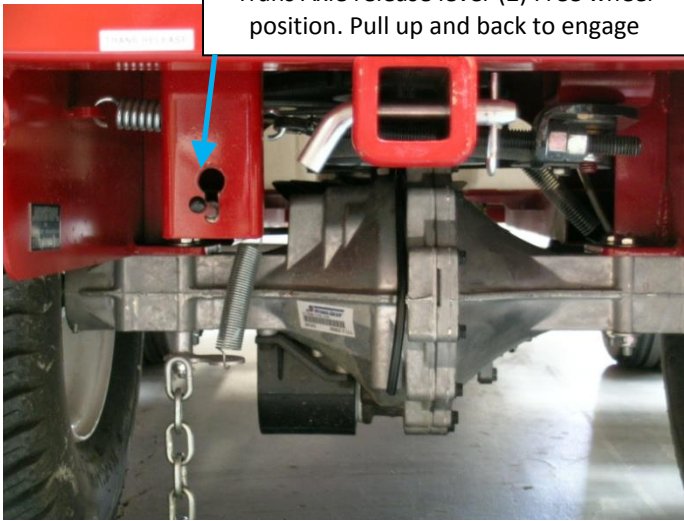
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Trans Axle release lever (2) Free wheel position. Pull up and back to engage



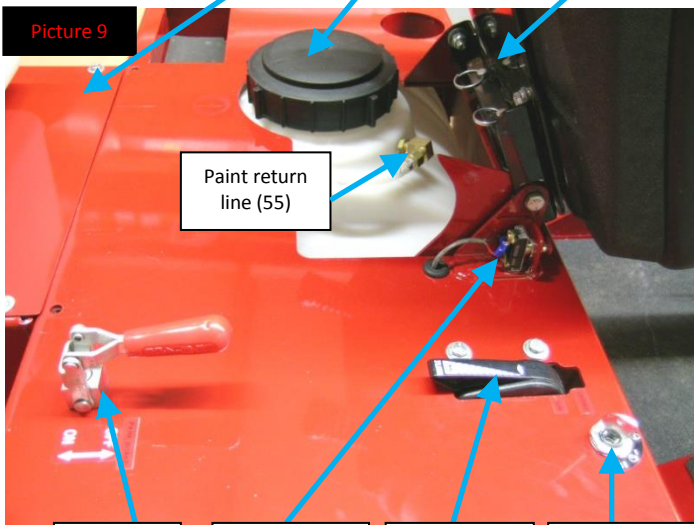
Picture 8

Battery access panel

Paint tank fill opening

Seat release pin (6)

Picture 9



Paint return line (55)

Parking brake (3)

Empty seat kill switch (5)

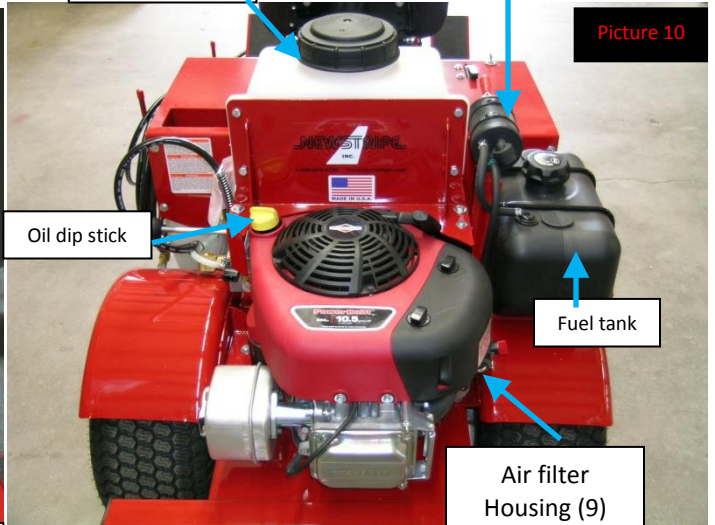
Throttle (7)

Ignition (8)

Purge tank (11)

Vapor Capture Canister  
DO NOT SERVICE

Picture 10



Oil dip stick

Fuel tank

Air filter Housing (9)



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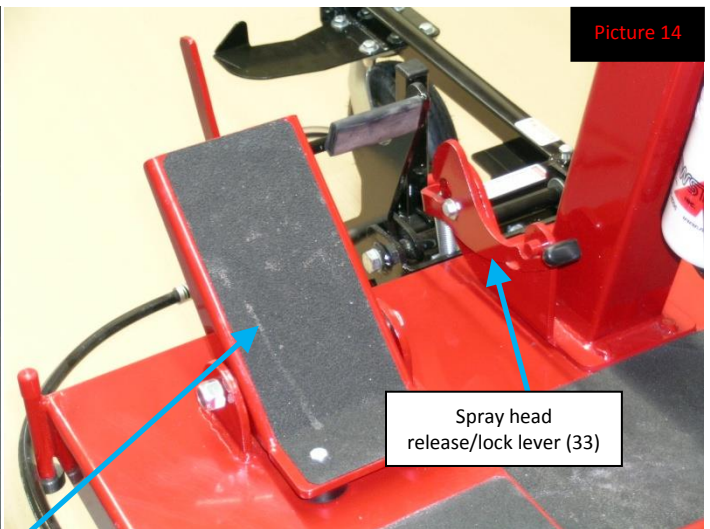
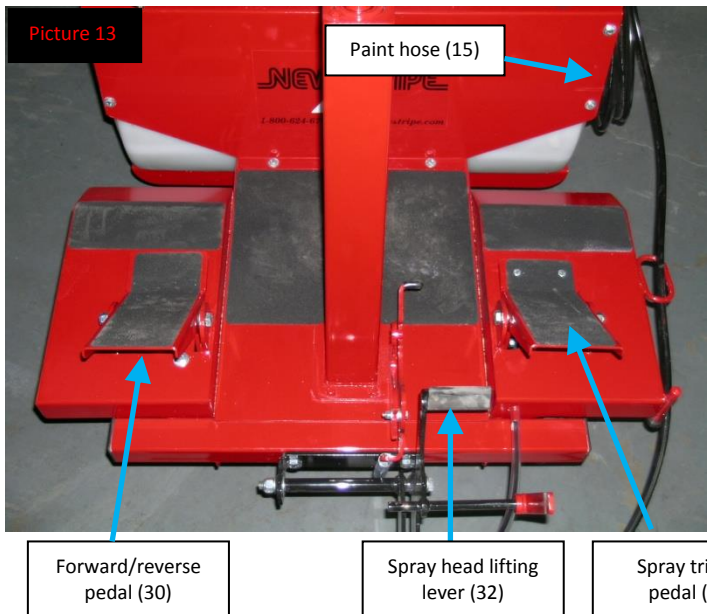
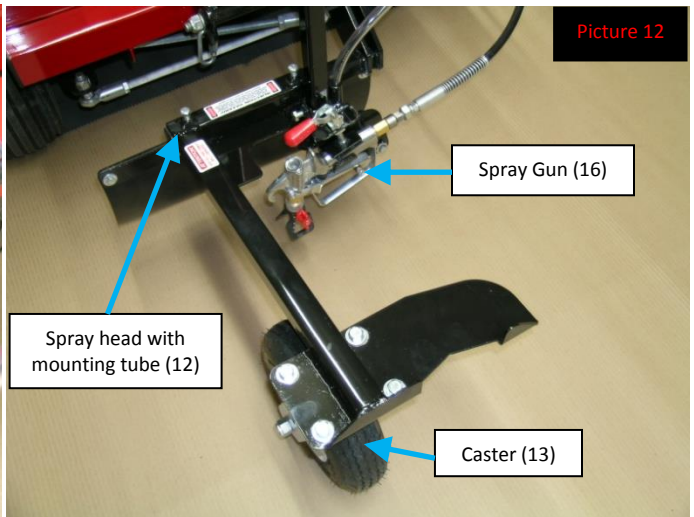
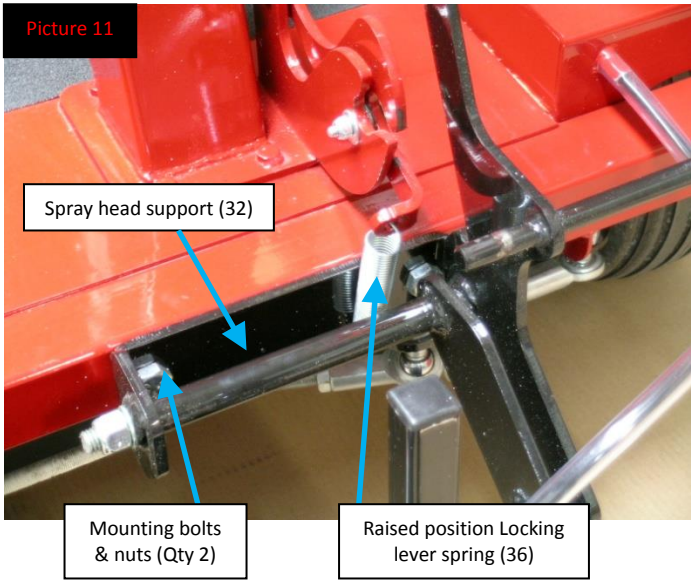
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# NewRider™ 1700 HPA Airless Ride-on Sprayer

**ALWAYS wear safety goggles or protective eye-wear when operating the unit!**

Spray Head Mounting

Gun Mounting-Spray head (32)



Valves in tank feed position

Valves in purge position



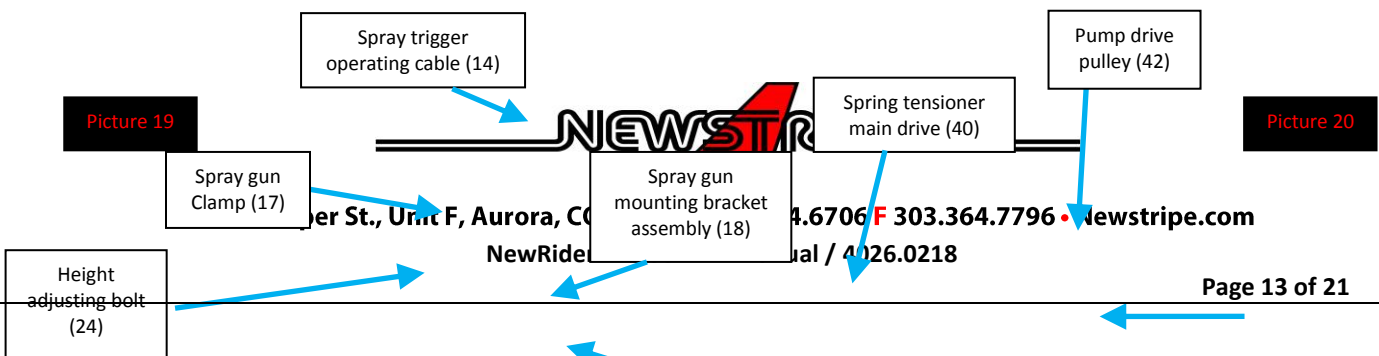
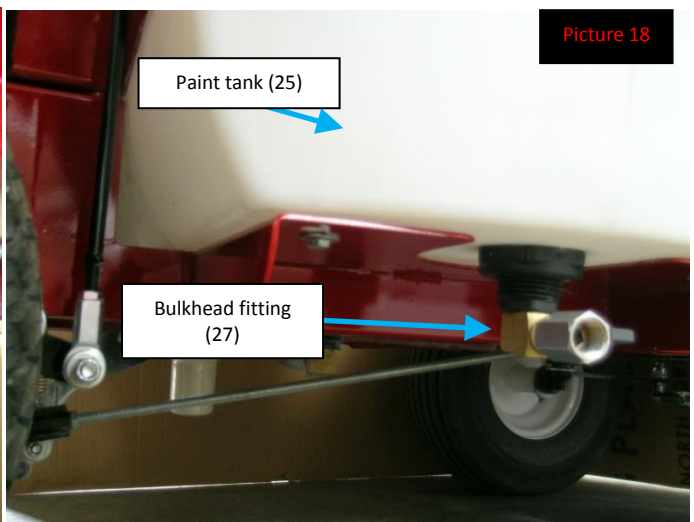
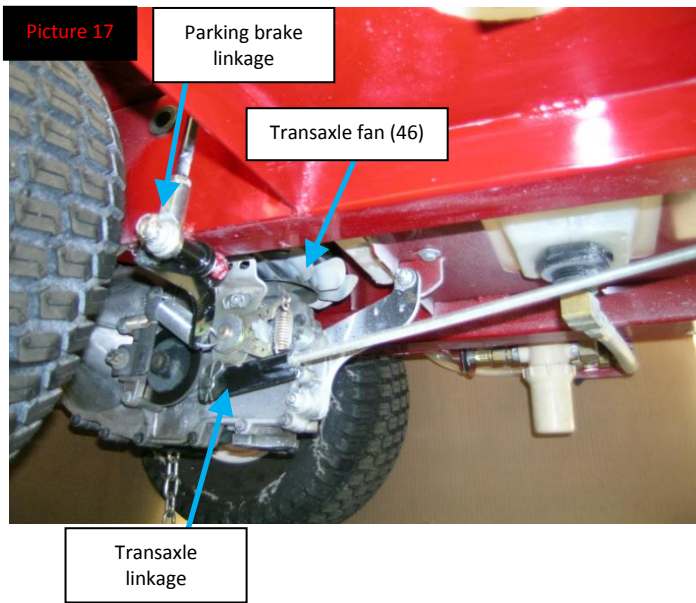
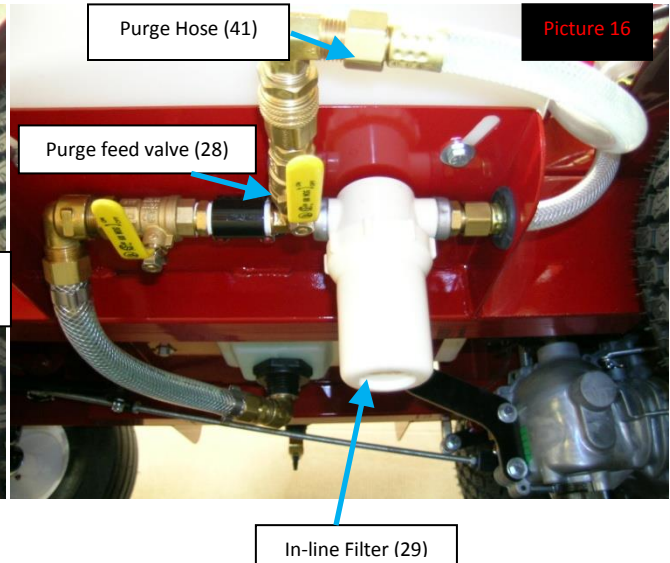
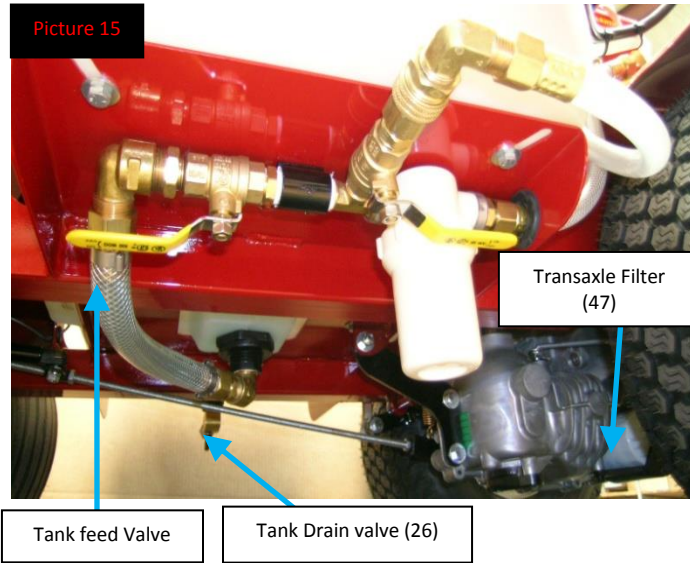
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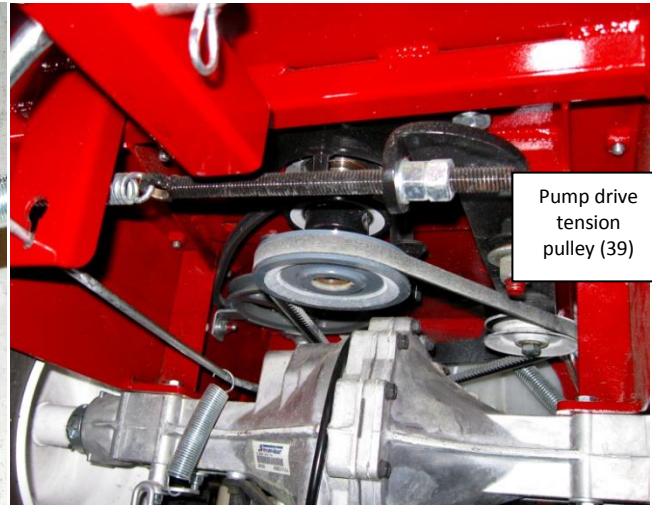
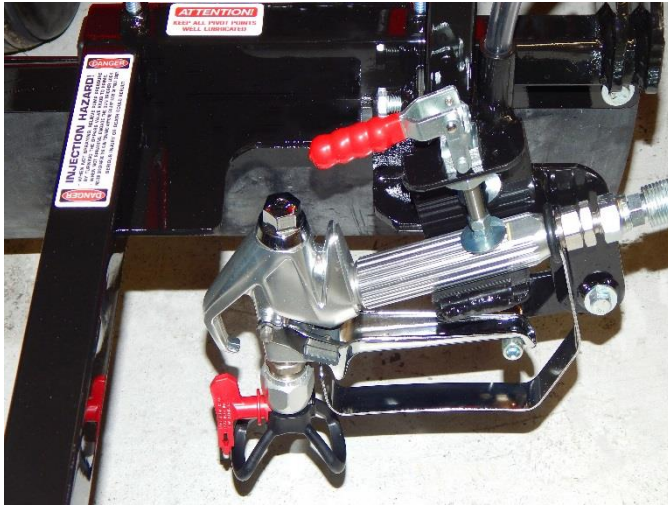
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## Transaxle service and maintenance

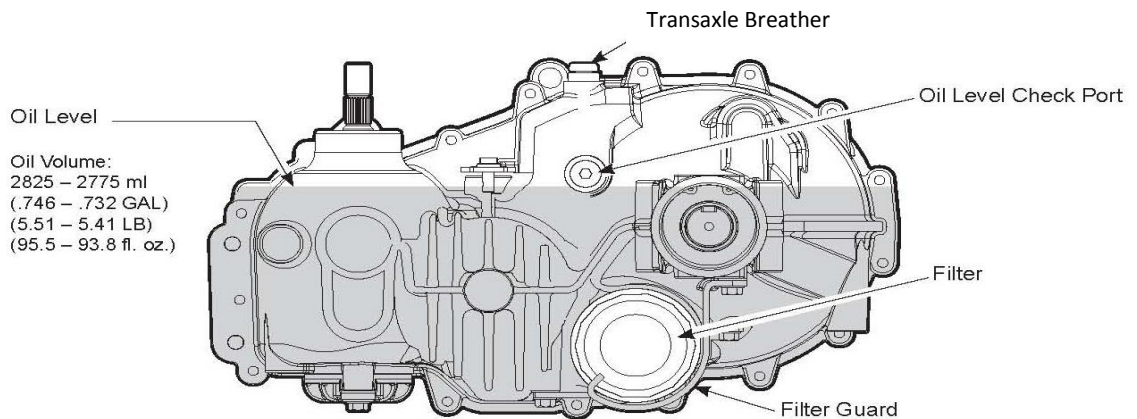
### Fluid change

This transaxle is designed with an external filter for ease of maintenance. To ensure constant fluid quality levels and longer life, an initial oil and filter change at 75-100 hours, then every 400 hours thereafter is recommended.

The following procedure can be performed with the transaxle installed in the vehicle, and the vehicle on level ground. Apply the bypass valve and lock the vehicle parking brake.

1. Remove the three 1/4" filter guard screws and filter guard. Clean any loose debris from around the perimeter of the filter. See filter and filter guard removal Page 15 of this manual.
2. Place an oil drain pan (12" or more diameter and 8 qt. capacity is optimal) beneath the oil filter. Remove the oil filter from the transaxle.
3. After the oil has drained, wipe the filter base surface off and apply a film of new oil to the gasket of the new replacement filter (Newstripe part number 10003778/Hydro-Gear part number 52114).
4. Install the new filter by hand, turn 3/4 to one full turn after the filter gasket contacts the filter base surface.
5. Re-install the filter guard with three 1/4" screws. Snug but do not over tighten.
6. Drain old oil filters of all free flowing oil prior to disposal. Place used oil in appropriate containers and deliver to an approved recycling collection facility.
7. Remove the oil level check port plug from the transaxle prior to filling with oil. This will allow the transaxle to vent during oil fill. Transaxle may be filled via port with a squeeze bottle or a jug pump.
9. Fill with **Mobil 1 Full Synthetic 15W50 Motor Oil\*\*** until oil just appears at the bottom of the oil level check port.
11. Proceed to the purge procedure.
12. Check oil level. Top off if necessary.

**\*\*Warning: Use ONLY Mobil 1 Full Synthetic 15W50 Motor Oil and Newstripe Filter Part Number 10003778 in the transaxle of this machine. Failure to use the correct filter and oil will cause damage to the transaxle and void the warranty.**



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## TRANSAXLE SERVICE AND MAINTENANCE

### External Maintenance

1. Check oil level at oil level check port if performance is off or transaxle is noisy.
2. Inspect the vehicle drive belt, idler pulleys, and idler springs. Insure that no belt slippage can occur. Slippage can cause low input speed to the transaxle.
3. Inspect the vehicle control linkage to the directional control arm on the transaxle. Also insure that the control arm is securely fastened to the trunnion arm of the transaxle.
4. Inspect the bypass mechanism on the transaxle and the vehicle linkage to insure that both actuate and release fully.

### Purging

Due to the effects air has on efficiency in hydrostatic drive applications, it is critical that it is purged from the system.

Air creates inefficiency because its compression and expansion rate is higher than that of the oil approved for use in hydrostatic drive systems. These purge procedures should be implemented any time a hydrostatic system has been opened to facilitate maintenance or the oil has been changed. The resulting symptoms in hydrostatic systems may be:

1. Noisy operation.
2. Lack of power or drive after short term operation.
3. High operation temperature and excessive expansion of oil. Before starting, make sure the transaxle is at the proper oil level. If it is not, fill to the specifications outlined in this manual.

### Purging Procedures

The following procedures are best performed with the vehicle drive wheels off the ground. Then repeated under normal operating conditions. If this is not possible, then the procedure should be performed in an open area free of any objects or bystanders.

1. Disengage the brake if activated.
2. With the bypass valve open and the engine running, slowly move the directional control in both forward and reverse directions (5 or 6 times).
3. With the bypass valve closed and the engine running, slowly move the directional control in both forward and reverse directions (5 to 6 times). Check the oil level, and add oil as required after stopping the engine.
4. It may be necessary to repeat Steps 2 and 3 until all the air is completely purged from the system. When the transaxle operates at normal noise levels and moves smoothly forward and reverse at normal speeds, then the transaxle is considered purged.

Please call us, if you have any questions regarding any of the above procedures.



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## TROUBLESHOOTING GUIDE

| PROBLEM  | REMEDY   |
|--|--|
| Engine will not turn over  | Check that the battery is connected and charged.<br>Operator out of seat and brake not set.  |
| Engine turns over but will not start   | Check that there is fuel in the tank and fuel is turned on.<br>Make sure throttle lever is in full forward (choke) position.   |
| Engine will still not start  | Call factory for assistance.   |
| Engine starts, but runs rough  | Check that the choke is turned off (throttle back from full forward position)  |
| Choke off but still runs rough   | Check for proper fuel.<br>Check spark plug for fouling, clean or replace.<br>Check air filter, clean or replace if dirty.  |
| Machine will not move when pedal is pressed  | Check that transaxle release lever is in engaged position.<br>Pull lever up, back, and down to lock.   |
| Machine will still not move  | Check that hand brake is released. Note: If you changed transaxle oil, you will need to purge the system. See Transaxle Fluid Change Procedure   |
| Machine will still not move  | Call Factory for assistance.   |
| Pump will not prime<br>(No fluid returning to pail)  | Check that the pump engaging lever is in ON position   |
| Lever engaged, but Pump will not prime   | Check that spray control knob is in Prime position<br>(Circular arrows aligned with arrow on housing)  |
| Spray control Knob in prime position, still will not prime   | Check that spray pressure control knob is in the high pressure position<br>(knob turned clockwise all the way)   |
| Knobs are set correct, still will not prime  | Push outlet button 3 times (brass button)  |
| Outlet button pushed, still will not prime   | Turn spray control knob to prime position, Back out Pressure control knob (Counterclockwise several Turns until loose) and let pump run for one minute. Then turn pressure control knob all the way in.                              |
| Knobs correct, button pushed, still will not prime   | Turn spray knob to prime position, turn off engine and activate spray trigger to release pressure.   |
| NOTE: A loose inlet fitting, worn or missing rubber washer on the inlet hose is the #1 reason for the pump failing to prime. | Remove garden hose fitting from inlet side (Bottom) of pump. Depress inlet valve stem so it moves freely. Reconnect inlet hose. MAKE SURE inlet hose fitting is tight and rubber washer is present. Restart engine & prime as above. |
| Pump will still not prime  | Call factory for assistance.   |
| Pump now primes, bubbles continue to appear In return hose after one minute  | Check inlet hose is tight. If tight and washer present, call factory   |
| Pump primes and is running, but gun does not spray   | Check spray control knob is in spray position, check pressure control knob is turned to high pressure (clockwise until it stops) Do not force!<br>Press brass release button three times   |



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## TROUBLESHOOTING GUIDE

| PROBLEM   | REMEDY   |
|---|--|
| Knobs are set correctly, still does not spray             | Check that trigger lock on spray gun is pushed to operating position. Check spray tip arrow is pointing towards ground. Check that lifting bar is operating gun trigger. |
| All of above correct, gun will still not spray            | Turn spray control knob to prime position, turn off engine, pull trigger to release pressure. Check spray gun filter, replace if plugged. Restart                        |
| Gun will still not spray paint                            | Call factory for assistance.   |
| Over spray or too much paint                              | Lower spray pressure. Turn spray pressure control knob counter clockwise several turns, then increase pressure just until spray pattern is full width.                   |
| Too little paint  | Increase the spray pressure. Paint may need to be thinned. Change spray tip to larger size.  |
| Uneven spray pattern or stringing                         | Increase the spray pressure. Spray tip may be chipped or clogged. Reverse tip and clean.   |
| Pressure increased, tip is clean, spray still not correct | Worn tip. (sprayed more than 100 gallons) Replace tip  |
| Replaced tip, spray is still not correct                  | Call factory for assistance  |

Please call us! If you have any questions during setup, painting or cleaning.

Your machine is designed to be simple and safe to operate: 1-800-624-6706



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# NewRider™ 1700 HPA Airless Ride-on Sprayer

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## CALIFORNIA, U.S. EPA, AND NEWSTRIPE, INC. EVAPORATIVE EMISSION CONTROL WARRANTY STATEMENT

### YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Newstripe, Inc. is pleased to explain the evaporative emission control system's warranty on your 2018 model year small off-road line painter engine. In California, new equipment that use small off-engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. Newstripe, Inc. must warrant the evaporative emission control system on your small off-road line painter engine for the period listed below provided there has been no abuse, neglect or improper maintenance of your equipment.

Your evaporative emission control system may include parts such as: carburetors, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated components.

#### MANUFACTURER'S WARRANTY COVERAGE:

This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by Newstripe, Inc.

#### OWNER'S WARRANTY RESPONSIBILITIES:

- As the small off-road engine line painter owner, you are responsible for performance of the required maintenance listed in your owner's manual. Newstripe, Inc. recommends that you retain all receipts covering maintenance on your line painter, but Newstripe, Inc. cannot deny warranty solely for the lack of receipts.
- As the small off-road engine line painter owner, you should however be aware that Newstripe, Inc. may deny you warranty coverage if your fuel tank has failed due to abuse, neglect, or improper maintenance or unapproved modifications.
- You are responsible for presenting your line painter/fuel tank to a Newstripe, Inc. distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact Ray Krebs at 1-800-624-6706.

#### DEFECTS WARRANTY REQUIREMENTS:

- (a) The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser.
- (b) General Evaporative Emissions Warranty Coverage. The fuel tank must be warranted to the ultimate purchaser and any subsequent owner that the evaporative emission control system when installed was:
  - (1) Designed, built, and equipped so as to conform with all applicable regulations; and
  - (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.
- (c) The warranty on evaporative emissions-related parts will be interpreted as follows:
  - (1) Any warranted part that is not scheduled for replacement as required maintenance in the



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## CALIFORNIA, U.S. EPA, AND NEWSTRIPE, INC. EVAPORATIVE EMISSION CONTROL WARRANTY STATEMENT (CONTINUED)

written instructions must be warranted for the warranty period defined in subsection (b) (2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by Newstripe, Inc. Any such part repaired or replaced under the warranty must be warranted for a time not less than the remaining warranty period.

(2) Any warranted part that is scheduled only for regular inspection in the written instructions must be warranted for the warranty period defined in subsection (b) (2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for a time not less than the remaining warranty period.

(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by Newstripe, Inc. Any such part repaired or replaced under warranty must be warranted for a time not less than the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty provisions of this article must be performed at no charge to the owner at a warranty station.

(5) Notwithstanding the provisions of subsection (4) above, warranty services or repairs must be provided at distribution centers that are franchised to service the subject engines or equipment.

(6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.

(7) Throughout the evaporative emission control system's warranty period set out in subsection (b)(2), Newstripe, Inc. must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(8) Manufacturer approved replacement parts must be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer issuing the warranty.

(9) The use of any add-on or modified parts will be grounds for disallowing a warranty claim made in accordance with this article. The manufacturer issuing the warranty will not be liable under this Article to warrant failures of warranted parts caused by the use of an add-on or modified part.

(10) Newstripe, Inc. shall provide any documents that describe the warranty procedures or policies within five working days of request by the Air Resources Board.

### EMISSION WARRANTY PARTS LIST:

- 1) Fuel Tank, cap, and tether
- 2) Fuel line, fuel line fittings, and clamps
- 3) Carbon Canister
- 4) Vapor hoses



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## **THE NEWSTRIPE WARRANTY – 36 MONTH**

NEWSTRIPE, INC., WARRANTS TO THE ORIGINAL PURCHASER, FOR 36 (THIRTY-SIX) MONTHS AFTER DATE OF PURCHASE, THAT THE EQUIPMENT\* HEREBY SOLD SHALL BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP. THIS WARRANTY DOES NOT EXTEND TO ANY DAMAGE OR MALFUNCTION RESULTING FROM MISUSE, NEGLIGENCE, ACCIDENT, IMPROPER OPERATION, OR NORMAL WEAR AND TEAR.

Damage incurred in shipment from Newstripe, Inc. to the customer is the total responsibility of the carrier. The CUSTOMER MUST NOTE DAMAGES on the Bill of Lading of Trucking Company or Railroad; and Newstripe, Inc. will furnish to the customer the cost or parts and labor. The customer can then bill the common carrier for the damages by placing his signature on the documents.

The Newstripe, Inc. obligation under this warranty and any implied warranties is limited to replacement or repair of defective parts of its manufacture without charge for 36 (THIRTY-SIX) months from date of purchase. For service under this warranty, buyer shall ship the defective part or parts of the equipment, transportation prepaid, to Newstripe, Inc. together with a written description of any claimed defect and proof of purchase date of the materials being returned. **Prior to retuning any part or machine, the CUSTOMER must obtain a Return Materials Authorization number. Call 1-800-624-6706. To review the complete guidelines for warranty and returns, please visit [www.newstripe.com/guidlinesforwarrantyandreturn](http://www.newstripe.com/guidlinesforwarrantyandreturn).**

**\*Gasoline engines, compressors, pumps (including airless) and Transaxles are furnished with their respective manufacturer's warranties only. Such components are not covered by any warranty of Newstripe, Inc. Where Newstripe elects to extend manufacturers' warranties, the warranty shall be pro-rated as to cover 100% of the cost to replace or repair materials and parts for the first 12 months of ownership and 60% for the remaining 6 month period.**

The responsibilities described above are the only responsibilities of Newstripe, Inc. under this written warranty or any implied warranty, and may be exercised only within 36 (THIRTY-SIX) months from the date of purchase. In no event shall Newstripe, Inc. be liable for incidental or consequential damages and no person had any authority to bind it to any representation or warranty, not be responsible for work done, materials furnished or repairs made by others without its' specific written authorization.

THIS WARRANTY SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND THERE IS NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND WITH RESPECT TO THE GOODS SOLD HEREBY EXCEPT AS SET FORTH HEREIN. IT IS EXPRESSLY AGREED THAT THIS WARRANTY SHALL BE LIMITED TO THE ADJUSTMENT, REPAIR OR REPLACEMENT OF PARTS AND THE LABOR AND SERVICES REQUIRED THEREBY. IN NO EVENT, INCLUDING ANY CLAIM FOR NEGLIGENCE, SHALL NEWSTRIPE, INC. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Sincerely,  
Newstripe, Inc



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