Model: TR-40-GAS (5301339)
(40 Gallon Lawn & Garden Trailer Sprayer w/5-Nozzle Boom Assembly)

Technical Specifications
- 40 Gal. Corrosion-Resistant Polyethylene Tank
- 5.5 HP Briggs & Stratton Engine
- 4-Roller Pump - 6 GPM
- Deluxe Pistol-Grip Handgun w/25’ Handgun Hose
- 16 x 6.50 - 8 Pneumatic Turf-Tread Tires
- Pressure Gauge and Pressure Relief Valve
- Adjustable Pressure
- 5-Nozzle Boom Assembly (100” Spray Coverage)
- Breakaway Outer Boom Members

General Information
Thank you for purchasing this product. The purpose of this manual is to assist you in operating and maintaining your lawn & garden trailer sprayer. Please read it carefully, as it furnishes information which will help you achieve years of trouble-free operation.

Warranty
Products are warranted for one year from date of purchase against manufacturer or workmanship defects for home owner usage and 90 days for commercial usage.

For technical assistance, visit our website @ www.fimcoindustries.com or call: TOLL FREE @ 1-800-831-0027

Our Technical Support Representatives will be happy to help you.

To obtain prompt, efficient service, always remember to give the following information...
- Correct Part Description and/or part number
- Model #/Serial # of your sprayer

Part descriptions and numbers can be obtained from the illustrated parts list section(s) of this manual.

Note: add proper oil to the engine crankcase and gasoline to the gas tank. Refer to the engine manual for the correct type and amount.

It is important to test the sprayer with plain water before actual spraying is attempted. This will enable you to check the sprayer for leaks in the plumbing system.

1. Open tank lid and be sure the tank is clean and free of foreign material. Fill the tank about half full with plain water.
2. Open the valve in the suction line and allow water to flow to the pump. The valve is located at this point to enable the strainer to be taken apart for cleaning.

CAUTION: Always be sure that water has reached the roller pump before starting your sprayer. If the pump is run dry, serious damage to the pump will result.

3. It is always best to start the sprayer at little or no pressure. This sprayer is equipped with a spring loaded relief valve. Turn the valve knob out to decrease pressure and in for increased pressure.
4. You may now start the sprayer engine following the engine manufacturers instructions. Let the sprayer run at low pressure until water has reached the handgun and all air has been purged from the system.

www.fimcoindustries.com
1000 FIMCO Lane, P.O. Box 1700, North Sioux City, SD  57049
Toll Free Phone: 800-831-0027  : Toll Free Fax: 800-494-0440
[5004624 (05/15)]
Testing the Sprayer
The pressure should now be increased to 30-125 P.S.I. Operate the sprayer at this increased pressure for 3-5 minutes, thoroughly testing the unit before adding chemicals.

NOTE:
It is VERY important for you to test your sprayer with plain water before actual spraying is attempted. This will enable you to check the sprayer for leaks without the possibility of losing any expensive chemicals.

Add water to the tank and drive to the starting place for spraying. When you are ready to spray, position booms out for spraying and turn the boom valve to the “on” position. This will start solution spraying from the tips of the boom. The pressure will decrease slightly when the boom is spraying. Adjust the pressure by twisting the gray twist knob on the bypass (pressure relief) valve. Twist ‘clockwise’ to increase pressure, ‘counter-clockwise’ to decrease pressure.

Read the operating instructions and initially begin spraying by closing the ‘bypass’ valve and opening the boom line valve. This will enable the air in the line to be eliminated (purged) through all the tips, while building pressure. When everything tests all right (no leaks and good pressure), add the desired chemicals to the mixture and water combination and start your spraying operation. Adjust the pressure and spray as you did in the testing procedure.

Conditions of weather and terrain must be considered when setting the sprayer. Do not spray on windy days. Protective clothing must be worn in some cases.

Be sure to read the chemical label(s) before application!

Operation
Always fill the tank 1/2 full with water first and then add the chemical slowly, mixing as you pour the chemical into the tank and fill the rest of the way. You may use the bypass in order to mix the chemical and water.

The pumping system draws solution from the tank, through the strainer/filter and to the pump. The pump forces the solution under pressure to the handgun and/or boom nozzles.

- Activate the handgun by squeezing the handle lever
- Rotating the adjustable nozzle tip on the handgun will change the tip pattern from a straight stream to a cone pattern (fine mist)

This sprayer is designed to be towed behind a garden tractor. The nozzles on the boom will spray a 100 inch wide swath. Check the nozzle pattern by spraying water on a concrete surface. Raise the boom to a higher mounting position to get more spray pattern overlap, if desired.

Speed Chart

<table>
<thead>
<tr>
<th>Speed in M.P.H. (Miles Per Hour)</th>
<th>Time Required in seconds to travel a distance of</th>
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<tr>
<td></td>
<td>100 Ft.</td>
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<tr>
<td>1.0</td>
<td>68 sec.</td>
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<tr>
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<td>7.6</td>
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<tr>
<td>10.0</td>
<td>6.8</td>
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Spray Tip Rate Chart (20" Spacing)

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<th>Tip No.</th>
<th>Spray Height</th>
<th>Pressure (psi)</th>
<th>Capacity (GPM)</th>
<th>Gallons Per 1000 Sq. Ft. - Based on Water</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>AIXR11002VP 18&quot;</td>
<td>1 MPH</td>
<td>2 MPH</td>
<td>3 MPH</td>
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<tr>
<td>Tip No.</td>
<td>Spray Height</td>
<td>Pressure (psi)</td>
<td>Capacity (GPM)</td>
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<td>--------------</td>
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<td>-------------------------------------------</td>
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<tr>
<td>AIXR11002VP 18&quot;</td>
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<td>40</td>
<td>.20</td>
<td>59.6</td>
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After Spraying
After use, fill the sprayer tank part way with water. Start the sprayer and allow the clear water to be pumped through the plumbing system and out through the spray nozzles. Refill the tank about half full with plain water and use FIMCO Tank Neutralizer and Cleaner and repeat cleaning instructions above. Flush the entire sprayer with the neutralizing/cleaning agent, then flush out one more time with plain water. Follow the chemical manufacturer’s disposal instructions of all wash or rinsing water. For the boom (if applicable) remove the tips and screens from the nozzle assemblies. Wash these items out thoroughly. Blow the orifice clean and dry. If the orifice remains clogged, clean it with a fine bristle (NOT WIRE) brush or with a toothpick. Do not damage the orifice. Water rinse and dry the tips before storing.

WARNING: Some chemicals will damage the pump valves if allowed to soak untreated for a length of time! ALWAYS flush the pump as instructed after each use. DO NOT allow chemicals to sit in the pump for extended times of idleness. Follow the chemical manufacturer’s instructions on disposal of all waste water from the sprayer.

Winter Storage
Drain all water out of your sprayer, paying special attention to the pump, handgun and valve(s). These items are especially prone to damage from chemicals and freezing weather.

The sprayer should be winterized before storage by pumping a solution of RV antifreeze through the entire plumbing system. This antifreeze solution should remain in the plumbing system during the winter months. When spring time comes and you are preparing your sprayer for the spray season, rinse the entire plumbing system out, clearing the lines of the antifreeze solution. Proper care and maintenance will prolong the life of your sprayer.

Calibration
Chemical labels may show application rates in gallons per acre, gallons per 1000 square feet or gallons per 100 square feet. You will note that the tip chart shows 2 of these rating systems.

Once you know how much you are going to spray, then determine (from the tip chart) the spraying pressure (PSI), and the spraying speed (MPH).

Determining the proper speed of the pulling vehicle can be done by marking off 100, 200 & 300 feet. The speed chart indicates the number of seconds it takes to travel the distances. Set the throttle and with a running start, travel the distances. Adjust the throttle until you travel the distances in the number of seconds indicated by the speed chart. Once you have reached the throttle setting needed, mark the throttle location so you can stop and go again, returning to the same speed.

Add water and proper amount of chemical to the tank and drive to the starting place for spraying.
Exploded View/Parts List:
TR-40-GAS (5301339)

Plumbing: TR-40-GAS (5301339)
Parts List: TR-40-GAS (5301339)

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<td>#10-24 x 1/4&quot; Phillips Round Head Machine Screw</td>
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<td>5068198</td>
<td>Tank Lid w/Baggage</td>
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<td>5088668</td>
<td>Plastic Tank Hold-Down Leg Clip</td>
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<td>5034101</td>
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5-Nozzle Boom Assembly
(with 3/8" Hose, 1" Sq. Tubing & AIXR11002VP Tips)

- 110° wide, tapered flat spray angle with air induction technology for better drift management
- Made of 2-piece UHMWPE polymer construction which provides excellent chemical resistance, including acids, as well as exceptional wear life
- Compact size to prevent tip damage
- Removable pre-orifice
- Excellent for systemic products and drift management
Engine/Pump Assembly #5278061

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Valve Assembly #5278024

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**Directo Valve** - Manually Operated Control Valve

- Corrosion Resistant Materials: Wetted Parts Polypropylene, 316SS and Polyethylene
- Maximum Pressure = 150 p.s.i.
- Large Capacity—12.5 G.P.M. @ 5 p.s.i. Pressure Drop
- 3/4" NPT (F) Inlet Connection
- 1/2" NPT (F) Spray Line Connection
- 3/4" NPT (F) Continuous By-Pass Connection
- Valves may be connected w/close nipples for multiple section spray control

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Piston Type Pressure Relief/Regulating Valves

Bypasses excess liquid. Adjustable to maintain control of line pressure at any pressure within the valve operating range. Selected pressure setting firmly held in place by locknut. Extra large passages to handle large flows.

- Choice of 1/2" or 3/4" NPT (M) inlet & (F) outlet connections
- Polypropylene with stainless steel spring
- Excellent chemical resistance
- EPDM O-Rings
- For pressure to 150 p.s.i.
- 1/4" port for pressure gauge

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![Diagram of Piston Type Pressure Relief/Regulating Valves]

**How to order:** Specify valve number (Example: 23120-1/2PP Polypropylene)
4-Roller Pump Assembly
(4101C-07) #5275495

(*) = parts available only in spare parts kit #7771796

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<td>Super Roller (4-Roller Pump)</td>
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<td>Ball Bearing (Sealed)</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>5017480</td>
<td>Shaft Bearing Cover</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>5017481</td>
<td>Bearing Cover</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>- - -</td>
<td>Pump Model Sticker/Label</td>
<td>1</td>
</tr>
</tbody>
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Spray Coverage = 100"

5-Nozzle Boom Spray Pattern

Complete
1/2" Bulkhead Fittings
5275014