

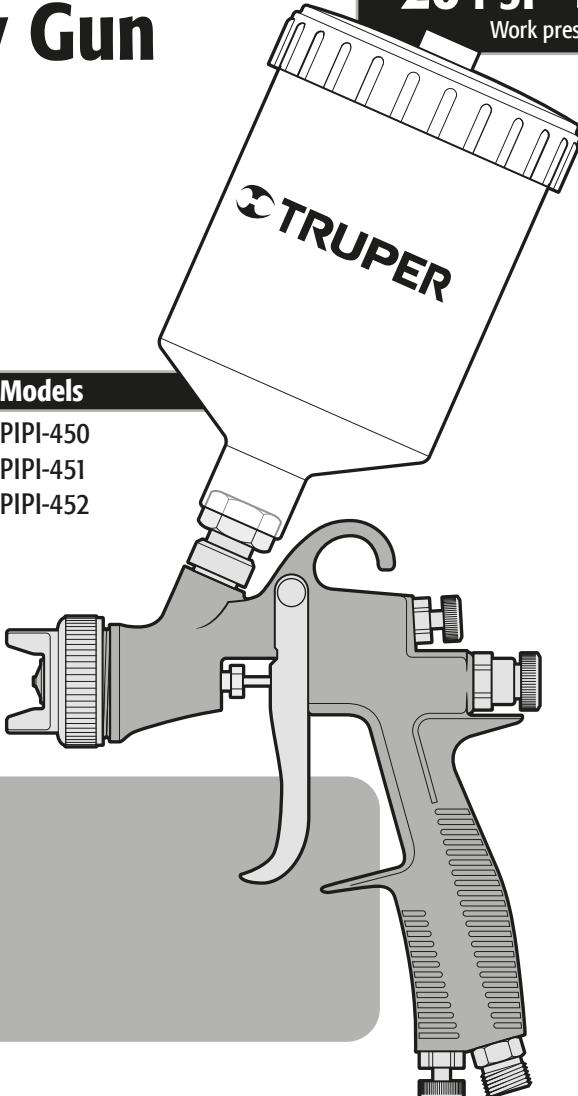
Manual

# Gravity Spray Gun

20 PSI - 50 PSI  
Work pressure

Applies for:

| Codes  | Models   |
|--------|----------|
| 101090 | PIPI-450 |
| 101091 | PIPI-451 |
| 101092 | PIPI-452 |



CAUTION  
Read this manual thoroughly  
before using the tool.



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## ! CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

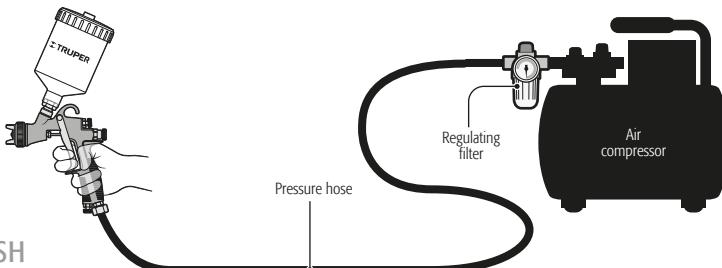
## Technical Data

|                     | PIPI-450            | PIPI-451 | PIPI-452 |
|---------------------|---------------------|----------|----------|
| Code                | • 101090            | 101091   | 101092   |
| Description         | • Gravity Spray Gun |          |          |
| Jar Capacity        | • 17 oz             |          |          |
| Air Pressure        | • 20 PSI - 50 PSI   |          |          |
| Connection Diameter | • 1/4 NPT           |          |          |
| Air Consumption     | • 9.78 CFM          |          |          |
| Nozzle Diameter     | • 0.05"             | 0.06"    | 0.07"    |

## Pneumatic Requirements

- For household jobs, it is possible to use 1.5 CV compressors with a 25 liters' deposit. For more demanding jobs, like bodywork, industry, etc, we recommend using 3 CV compressors with a 100-liter deposit as minimum.
- Use high-pressure hoses with the adequate length to do the job comfortably.

 **CAUTION** • Dust and water condensation inside the compressor tank can cause a deficient finish in the surface to be painted. To prevent that possibility, install a regulating filter between the compressor and the gun.



# Safety Warnings for the Use of Pneumatic Tools

 **TRUPER®**

Keep your work area clean, tidy and well lit.

**CAUTION** Cluttered and dark areas may cause accidents.



Never use the tool in explosive environments or near flammable liquids.



**DANGER** Sparks generated by the tool may cause explosion or fire.

Keep children and visitors at a safe distance when using the tool.

**WARNING** Distractions may cause losing control and cause accidents.



Avoid contact with power lines and circuits.

**DANGER** Find and avoid both power lines and circuits, especially hidden wires and grounded devices.



Stay alert, use care and common sense.

**CAUTION** Do not rely on your knowledge of the tool. Do not get distracted while operating it. It could cause accidents.



Do not use the tool when tired or under the influence of drugs, alcohol or medication.

**DANGER** One second of distraction while using the tool may cause severe injuries.



Use the tool with guards and protective devices in place and in good working conditions.

**WARNING** Failure to comply with these measures may cause severe injuries.



Secure and support the work piece properly.

**CAUTION** Use bench vises and a stable working area.

Do not force the tool.

**CAUTION** It will do the job better and safer at the rate for which it was intended.



Store the tool in a safe place away from the reach of children.

**WARNING** Power tools are dangerous for inexperienced people.



Dress properly.

**WARNING** Loose clothing, jewelry or long hair may get caught in moving parts.



Keep your hands away from rotating and/or mobile parts.

**WARNING** Failure to comply with this safety measure exposes you to severe personal injury.



Use adequate personal protection.

**CAUTION** Using safety glasses, anti-dust mask, safety non-skid shoes, helmet and earplugs used in adequate conditions considerably reduce the risk of injury.



Disconnect the air hose from the tool servicing, changing devices or storing.

**WARNING** Reduce the risk of unintentional starting causing accidents.



Never use a tool if the switch is not working or is not properly assembled.

**WARNING** You are exposed to severe personal injury.



Do not overreach.

**CAUTION** Good footing and balance allow you to gain better control of the tool in unexpected situations.



Never pull the air hose.

**WARNING** Do not use it to carry or disconnect the tool pulling out the air supply. Damaged or tangled hoses can burst and shoot residues towards the operator.



Avoid accidental start up.

**WARNING** Make sure the air supply tool is switched off before connecting or moving the tool.



Remove vises before starting the tool.

**DANGER** Additional tools or vises set into a moving part may cause severe injury.



Service the tool and verify it is in excellent working conditions.

**CAUTION** Carefully check all moving parts, alignment and assembly. Make this periodically. Look for damaged or malfunctioning parts to immediately be repaired.



Accessories.

**CAUTION** Use only accessories or spare parts recommended in this MANUAL or certified by  TRUPER.



Never leave a running tool unattended.

**CAUTION** Switch off and disconnect the tool from the air supply after operating and before putting it aside. Avoid severe injury.



## Substances and Materials

**⚠ CAUTION** • The unit is designed to apply covering materials like paint, varnish, enamel, etc. These should have an ignition point not lower than 70 °F. Check the product can label or container.

**⚠ WARNING** • Do not spray substances you are not familiar with and if their potential danger is unknown to you.

**⚠ WARNING** • Do not spray flammable substances. • Use care with dangers originated by the sprayed substances. Read the text and information in the cans and containers or the manufacturer specifications.

## While operating the device

**⚠ CAUTION** • Never point the sprayer towards your body, passersby or animals.

• Make sure that the equipment does not absorb any steam solvent.

**⚠ CAUTION** • In the event you need to pause during the application process, do not set the sprayer sideways. Hold it by the hook or somewhere for it be vertical.

## Before operating the unit

**⚠ CAUTION** • The unit shall not be used in enclosed areas or explosive environments.

• If working outdoors consider wind direction. Wind carries the covering to great distances, causes damages and makes the job difficult.

**⚠ CAUTION** • If working indoors, verify there is adequate ventilation.

**⚠ WARNING** • The work area shall be free of any ignition source. Do not smoke while spraying or near the work area.

**⚠ CAUTION** • Wear a face mask and safety goggles when spraying. Prevents damaging lungs and eyes.

• Wearing gloves and an overall is recommended to protect hands and clothes from the product when applying.

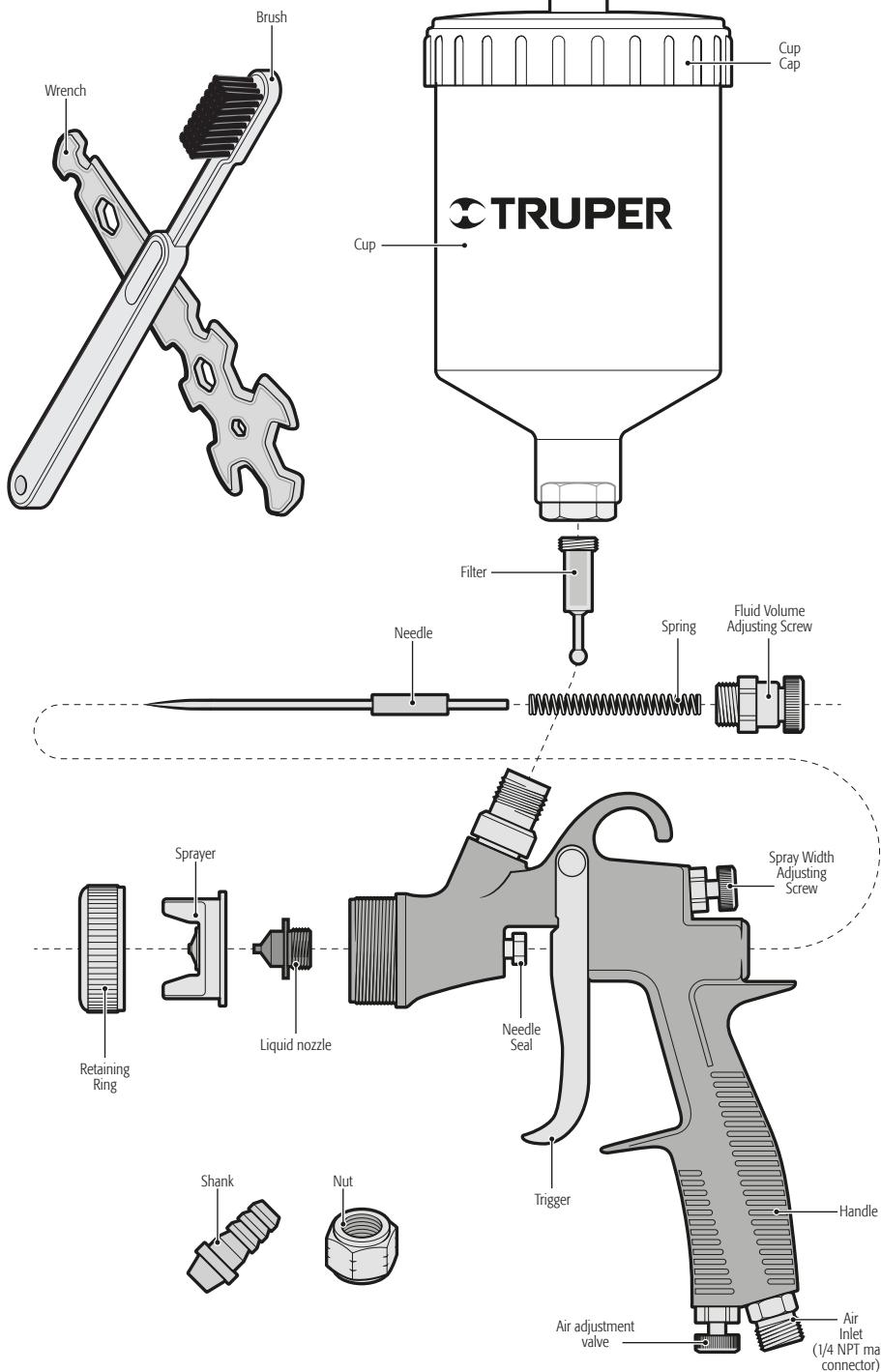


## After operating the unit

**⚠ WARNING** • When finishing the job clean the gun perfectly to eliminate any product residue. Accumulations can damage the gun and cancel the Warranty

# Parts

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- To get a good job done it is important to prepare the surface to be sprayed. Thin the paint of fluid to get the right viscosity before applying.
- Always confirm that the surface to spray is free of dust, dirt and grease.
- Be sure to cover those areas not needing to be sprayed. Use adhesive tape, newspaper and / or plastic.
- The paint or fluid to spray shall be twirled before filling up the cup to prevent it from settling. It shall be free of lumps or other particles.
- Always check the manufacturer's recommendations regarding the fluid before purchasing.

## Thinning the fluid

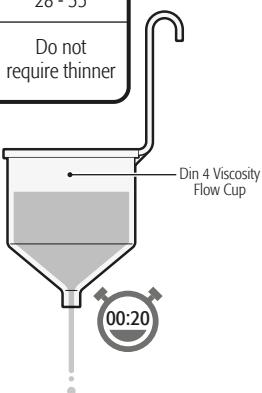
- Most paints are sold ready to apply and need to be thinned before being adequate to apply with a gun. Follow the fluid manufacturer's instructions to thin adequately.
- We recommend using a thinner from 5 to 10 % until reaching the right viscosity to apply the fluid.
- Use the din 4 viscosity flow cup (not included) to determine the right viscosity of the paint. Viscosity is determined counting the seconds that takes the fluid to be discharged from the measuring cup. The following table show the time recommended for different products.

| Fluid              | Second to discharge    |
|--------------------|------------------------|
| Water based Paint  | 20 - 25                |
| Primer             | 24 - 28                |
| Varnish            | 20 - 25                |
| Oil Based Paint    | 18 - 22                |
| Enamel Paint       | 18 - 22                |
| Aluminum Paint     | 22 - 25                |
| Automotive Sealant | 25 - 35                |
| Wood Sealant       | 28 - 35                |
| Wood Preserver     | Do not require thinner |
| Wood Stain         |                        |

## Filling the Cup

- The cup must be mounted on the gun before filling it.
- Open the cup cap and pour the coating material properly thinned as indicated in the previous section.
- Close the cap to start spraying.

- If after thinning the fluid the dispersion capacity is very low, add little by little more dilatant from 5 to 10 % until the dispersion capacity complies with the needs.
- If the paint is too thick, the painted surface will be rough (orange peel). If the paint is too fluid, there is risk it will drip.



## Volume Selector

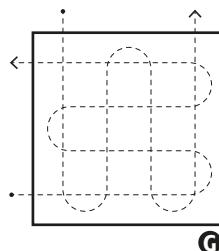
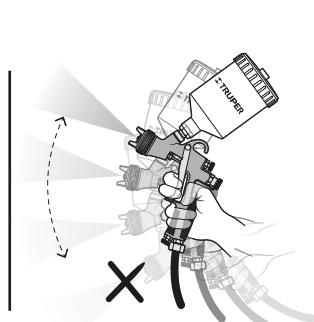
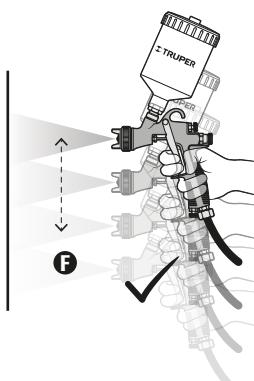
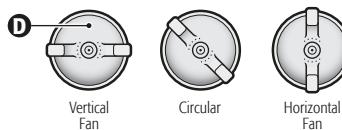
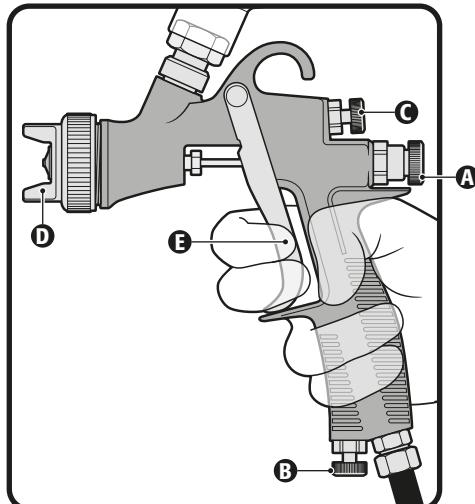
- Turn the screw (**A**) to adjust the volume of the fluid to be sprayed. Turning counterclockwise the volume diminishes and turning clockwise the volume increases.
- Turn the screw (**B**) to regulate the air inlet into the gun.
- Turn the knob (**C**) to regulate the fan size to be sprayed.
- Turn the sprayer (**D**) to change the fan angle.

## Spraying Techniques

- To get good results, always keep the gun leveled and parallel to the surface (**F**). Keep the nozzle 7.0" – 9.8" away from the surface and spray evenly from one side to the other and up and down. Do not spray in an angle, otherwise, the paint may run through the surface. Make soft and uniform passes. When spraying large areas use a crossed pattern (**G**).
- Displace the gun using a constant and uniform speed. Fast movements produce thin layers and slow movements produce thick layers.
- Apply one layer at a time. If you need another layer see the drying recommendations from the material manufacturer before applying a second layer. Remember that to get a better finish, applying two thin layers as opposed to only one thick layer.
- When spraying small areas turn the adjusting screw to reduce the volume of material to be applied. This way you avoid using too much paint and prevents from over-spraying.
- To assure a uniform application, when possible, avoid pausing while spraying an object.
- Do not tilt the paint gun in an angle bigger than 45°.

## Start up

- Start the compressor.
- Press the trigger (**E**) to open the air flow and starts suctioning the fluid from the cup. Aim the gun towards a piece of cardboard until the fluid mist is sprayed.
- Release the trigger to stop the mist flow.



## Cleansing and Care

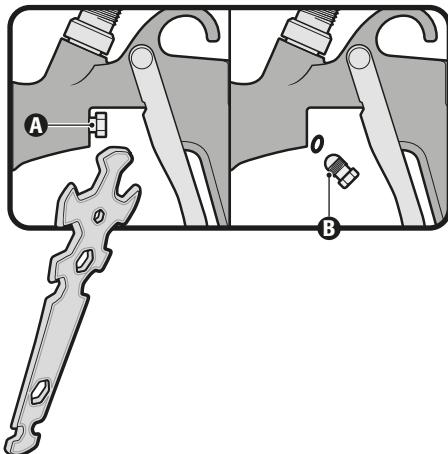
- It is very important to clean the paint gun thoroughly after each use.
- Pour the remaining fluid into an adequate container.
- Without removing the jar press the trigger to remove all the fluid inside the system.
- Disconnect the paint gun hose.
- Clean the jar, the gasket seal and the suction pipe thoroughly with a rag soaked with the solvent that is right for the product.
- Disassemble the regulator, the sprayer, the nozzle and the needle. Clean them with a brush and solvent.
- Clean the paint gun body with a piece of rag moistened with solvent.

**⚠ WARNING** Inadequate cleansing will result in malfunctioning and will cancel the Warranty.

- Clean the jar, the gasket seal and the suction pipe thoroughly with a rag soaked with the solvent that is right for the product.
- When the parts are clean assemble back the paint gun.
- Pour a small amount of solvent into the jar. Connect the hose to the paint gun.
- Turn on the compressor and spray into a container until getting clean solvent out through the nozzle.

## Needle Seal

- Use special care when adjusting the needle seal. It is important for a good job.
- Adjust the needle seal using the wrench (A).
- Periodically check the seal to double check is not damaged. To gain access to the seal remove the needle and remove the seal oppressive piece in the seal (B).





Right Mist Pattern

## Problem

Wrong Mist Patterns:



## Cause

- Paint build up in the nozzle.

- Paint build up in the nozzle or asperser.

- Damaged nozzle.
- Nozzle is poorly tightened.

- Paint viscosity is too low.
- Fluid outlet is too high.

- Paint viscosity is too high.
- Fluid outlet is too low.

## Solution

- Remove the obstructions from the nozzle.

**CAUTION** Do not use metal objects to clean the funnel orifices.

- Remove obstructions from the nozzle and asperser.

- Replace the nozzle.

- Tighten the nozzle.

- Add paint to the mix.

- Adjust the paint flow regulator or the air flow.

- Add thinner to the mix.

- Adjust the paint flow regulator or the air flow.

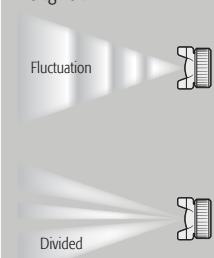


Right Fan



## Problem

Wrong Fan:



## Cause

- Air is entering between the nozzle and the gun body.
- Air is suctioned through the seal washer in the needle.

- The nozzle and the needle are not set correctly.
- The nozzle and / or needle is damaged.
- Fluid build up inside the gun system.

## Solution

- Clean the nozzle and the joint with the gun. If damaged, replace the nozzle.
- Tighten the needle seal as indicated in page 8.

- Clean the nozzle and the needle.

- Replace the fluid nozzle and the fluid needle.

- Disassemble the gun parts and clean all the components.

## Air leaks.

- Residues or damage in the air flow regulating knob system.
- Poorly tightened components.

- Disassemble the system to check, clean and tighten the air valve, its seat and washers. Replace any damaged part.

## Fluid leaks.

- Residues or damage in the nozzle and / or needle. Components poorly tightened.

- Disassemble the system to check, clean and tighten the air valve, its seat and washers. Replace any damaged part.

## The fluid is not flowing.

- Fluid flow regulating screw has insufficient opening.
- Obstruction in the system.

- Turn the screw counterclockwise to increase flow.
- Disassemble the gun parts and clean all the components.

| <b>Codes</b> | <b>Model</b> | <b>Brand</b>   |
|--------------|--------------|--|
| 101090       | PIPI-450     |  <b>TRUPER®</b> |
| 101091       | PIPI-451     |  |
| 101092       | PIPI-452     |  |

This product, its parts and components is guaranteed for 10 years against defects in its manufacture, operation and workmanship. To make the warranty valid or purchase parts and components you must present the product in Corregidora 22, Col. Centro, Alc. Cuahtémoc, CDMX C.P. 06060 or at the establishment where you purchased it.

For questions or comments, call **800-690-6990**. Made in China. Imported by Truper S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257



**10**  
YEARS

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