ENGLISH
ESPAÑOL

TRUPER®

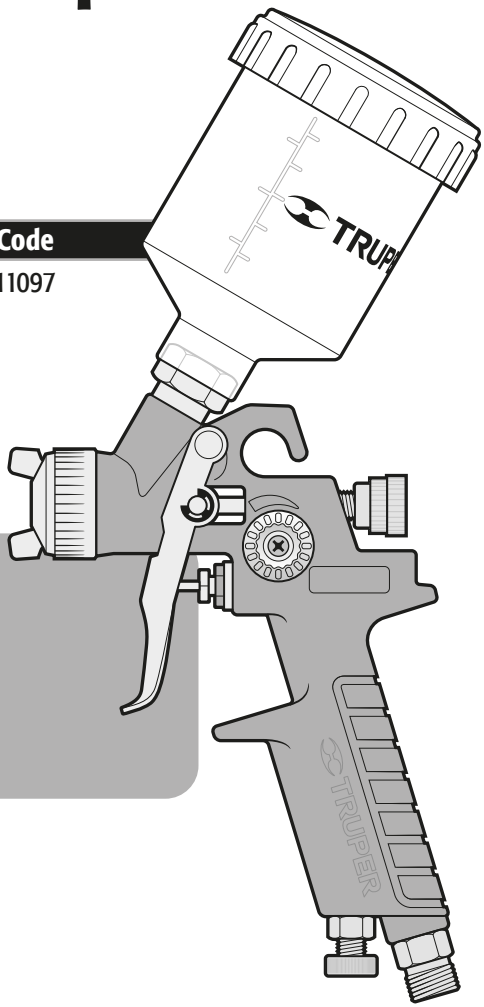
Manual

Mini Gravity Feed Touch-up Spray Gun

30 PSI - 50 PSI
Air Pressure

Applies for:

Model	Code
PIPI-410	11097



PIPI-410

⚠ CAUTION Read this manual thoroughly before using the tool.

WARRANTY TRUPER® WARRANTY

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Contents

⚠ 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.

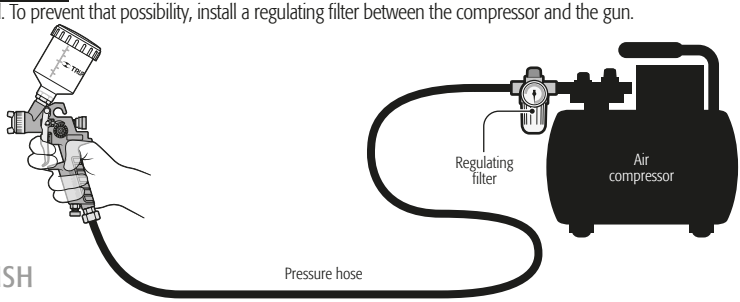
The illustrations in this manual are for reference only. They might be different from the real tool.

Technical Data

	PIPI-410
Code	11097
Description	Mini Gravity Feed Touch-up Spray Gun
Jar Capacity	4 oz
Air Pressure	30 PSI - 50 PSI
Connection Diameter	1/4 NPT
Air Consumption	2.5 CFM
Nozzle Diameter	0.03"

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

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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 loosing 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 vices 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 vices before starting the tool.

⚠ DANGER Additional tools or vices 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.

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Safety Warnings
for the Use of Spray Guns

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.

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.

While operating the device

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

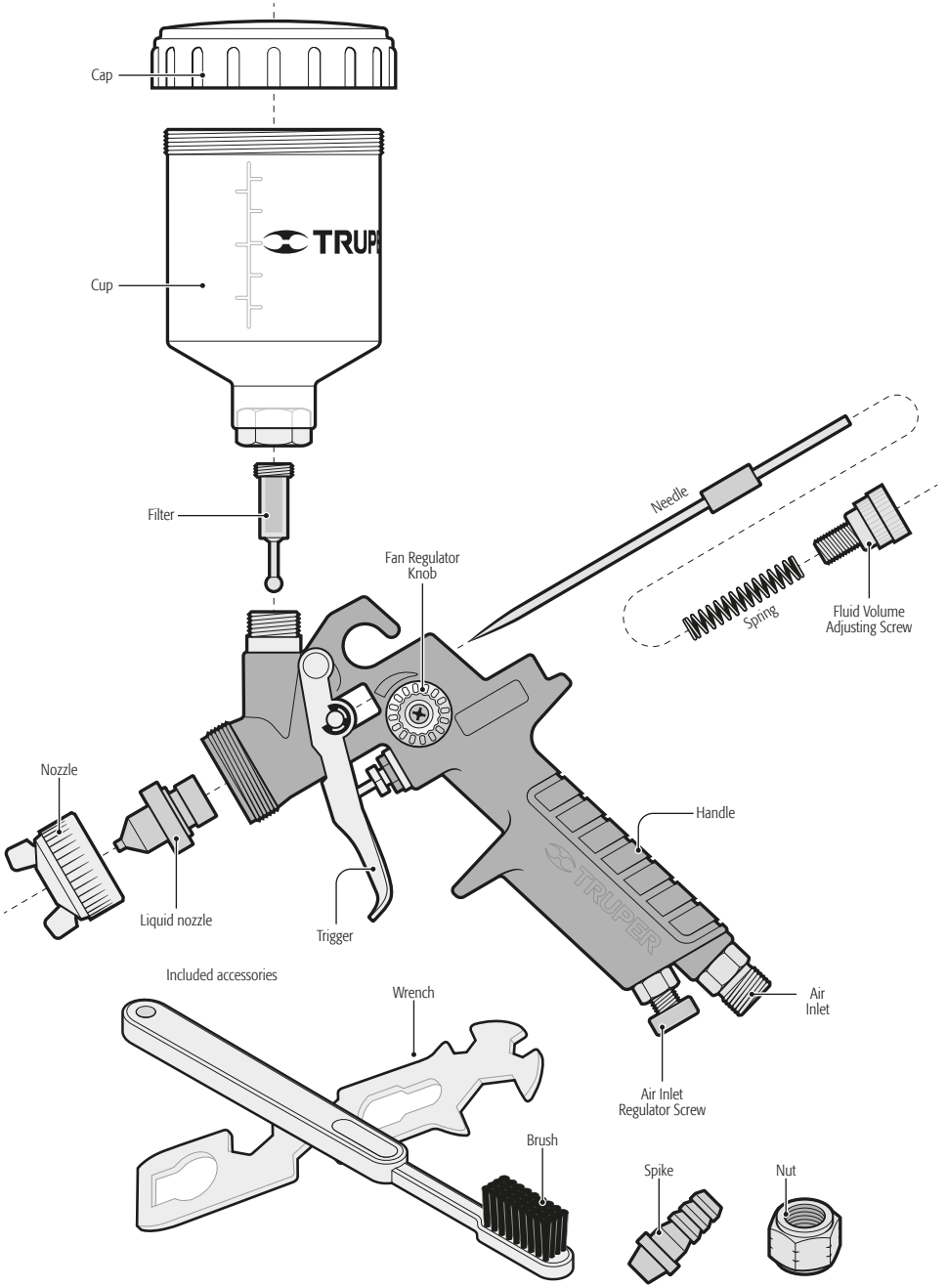
• Make sure that the equipment does not absorb any steam solvent.

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

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


Cap
Cup
Filter
Needle
Spring
Fluid Volume Adjusting Screw
Fan Regulator Knob
Nozzle
Liquid nozzle
Trigger
Handle
Air Inlet
Air Inlet Regulator Screw
Included accessories
Wrench
Brush
Spike
Nut

Preparation

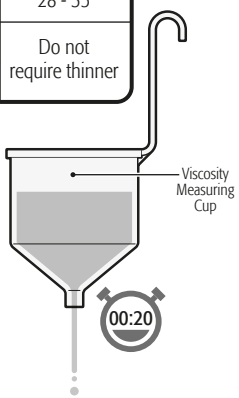
• To get a good job done it is important to prepare the surface to be sprayed. Thin the paint of fluid to get the right viscosity before applying.
• Always confirm that the surface to spray is free of dust, dirt and grease.
• Be sure to cover those areas not needing to be sprayed. Use adhesive tape, 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 a viscosity measuring 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	

• 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.



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.
• Screw the cap to start spraying.

Start Up

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Mist Adjust

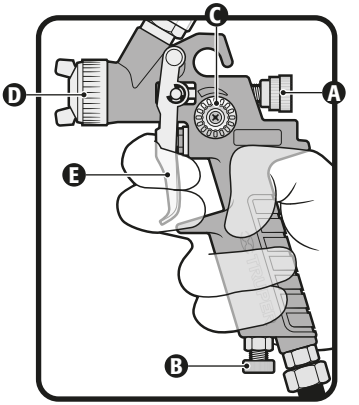
• Turn the screw (**A**) to adjust the volume of fluid to be spayed. Turning counterclockwise the volume diminish and turning clockwise the volume increase.
• Turn the nut (**B**) to regulate the air inlet to the gun.
• Turn the knob (**C**) to regulate the size of the fan to use when spraying.
• Turn the asperser (**D**) to change the fan angle.

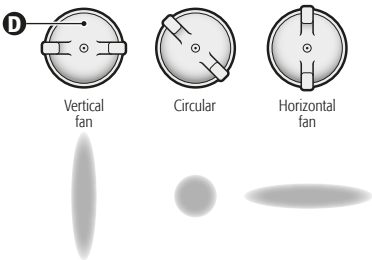
Spraying Techniques

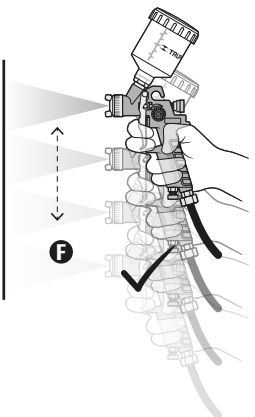
• To get good results, always keep the gun leveled and parallel to the surface (**F**). Keep the nozzle 4" – 6" away from the surface and spray evenly from one side to the other and up and down. Do not spray in an angle, otherwise, the paint may run through the surface. Make soft and uniform passes. 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 fluid to be sprayed. 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°.

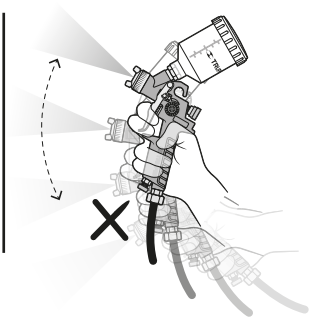
Start up

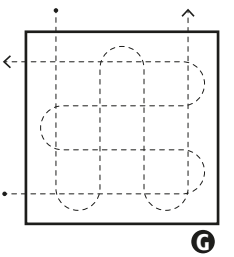
• Start the compressor.
• Press the trigger (**E**) to open the air flow and starts suctioning the fluid from the cup. Aim the gun towards a piece of cardboard until the fluid mist is sprayed.
• Release the trigger to stop the mist flow.











Cleansing and Care

• It is very important to clean the gun thoroughly after each use.

⚠ WARNING In the long run, inadequate cleaning will result in poor functioning and will void the warranty.

• Empty the remaining fluid from the cup into a designated container.

• Not removing the cup, press the trigger to remove all the fluid from inside the system.

• Poor a little bit of solvent into the cup.

• Start the compressor and spray into a container until clean solvent passes through the nozzle.

• Disconnect the hose from the gun.

• Disassemble the cup, the sprayer, the nozzle and the needle to clean with a soft brush and solvent.

• Clean the gun body with a piece of cloth dampened with solvent.

⚠ CAUTION Do not submerge the gun in solvent. Otherwise, the washers may get damaged.

• Once the parts are clean, assemble back the gun.

Troubleshooting

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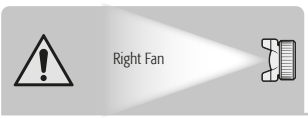
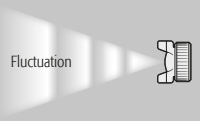
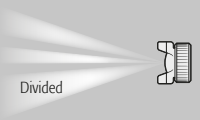
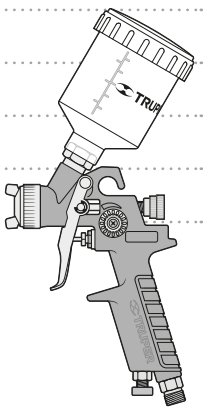
Problem		Cause	Solution
Wrong Mist Patterns:	 Half Moon	• Paint build up in the nozzle.	• Remove the obstructions from the nozzle. **⚠ CAUTION** Do not use metal objects to clean the funnel orifices.
	 Tilted	• Paint build up in the nozzle or asperser. • Damaged nozzle. • Nozzle is poorly tightened.	• Remove obstructions from the nozzle and asperser. • Replace the nozzle. • Tighten the nozzle.
	 Divided	• Paint viscosity is too low. • Fluid outlet is too high.	• Add paint to the mix. • Adjust the paint flow regulator or the air flow.
	 Centered	• Paint viscosity is too high. • Fluid outlet is too low.	• Add thinner to the mix. • Adjust the paint flow regulator or the air flow.



Problem	Cause	Solution
Wrong Fan:		
 Fluctuation	• Air is entering between the nozzle and the gun body. • Air is suctioned though the seal washer in the needle.	• Clean the nozzle and the joint with the gun. If damaged, replace the nozzle. • Tighten the needle seal as indicated in page 8.
 Divided	• The nozzle and the needle are not set correctly. • The nozzle and / or needle is damaged. • Fluid build up inside the gun system.	• 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 la gun parts and clean all the components.

Notes



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