



## Automotive Aftermarket Division

### 3M™ Accuspray™ Spray Gun Kit HG14

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1) **Part Number 16577**

2) **Description and end uses**

3M™ Accuspray™ Spray Gun System for applications requiring the use of a 1.4 mm atomizing head. The 3M™ Accuspray™ Spray Guns perform like a premium spray gun, without the premium price. It can also be used with 1.8 mm or 2.0 mm heads depending on the task at hand.

3M™ Accuspray™ technology with a 1.4 mm atomizer for applications requiring the use of a 1.4mm atomizing head. Like all Accuspray™ System guns, the HG14 kit delivers the equivalent of a new 1.4mm spray gun whenever you want one for a fraction of the cost by just replacing the head. Accuspray™ Spray Guns perform like a premium spray gun, without the premium price. The kit contains a spray gun, three atomising heads/nozzles and an air regulator.

- Provides the equivalent of a brand new spray gun on demand for a fraction of the cost
- Increase productivity and lower coat usage
- Maximise the benefits of the 3M™ PPS™ System
- Precision spray pattern control
- Exceptional atomization

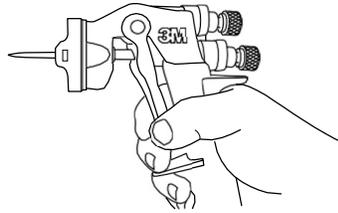
3) **Physical Properties**

Element	Material of construction
Body	Composite
Trigger	Steel, plating, bright nickel chrome
Fluid Needle	Stainless Steel
Control Knobs	Stainless Steel
Air inlet	Stainless Steel
Air flow control valve	Various, Stainless Steel connector
Nozzle	Polypropylene

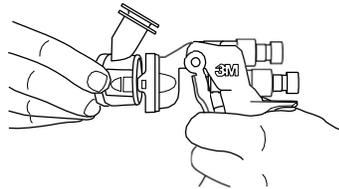
### 4) Directions for Use

#### Attaching the Atomizing Head

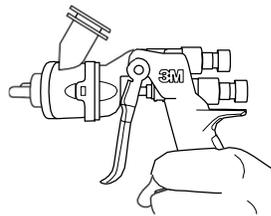
1. Pull trigger back and hold.



2. Slide the atomizing head over the fluid needle and push towards the spray gun body making sure the release buttons are aligned with the latch openings.

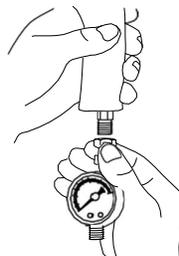


3. Secure the atomizing head and listen for the "clicking" sound for full engagement then release the trigger.

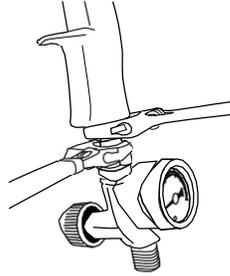


#### Attaching the Airflow Control Valve

1. Manually attach the airflow control valve to the air inlet by hand threading the connection.



2. Use two wrenches to connect the air flow control valve. Adjust one to fit the air inlet and adjust the other to fit the air flow control valve then tighten the connection.



### Adjusting the Air Pressure

Adjust the air pressure inlet to 5-15 psi (0.34-1.03 BAR) at full trigger. This is a good starting point for most materials. Adjust as needed for your material and spraying technique.

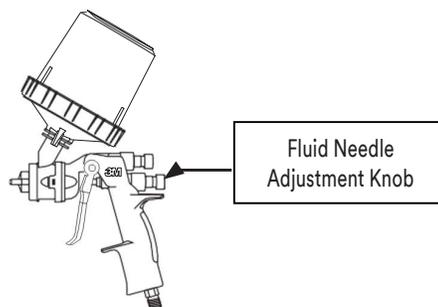
**Note:** When operating this unit, use only undamaged, suitably solvent-resistant and appropriately pressure-rated static-conductive air hoses.

### Adjusting the Fluid Flow

The fluid flow can be adjusted by using the fluid needle adjustment knob as noted in Fig. 1. As a starting point, gently turn the knob clockwise until you have very little fluid needle travel (pull trigger to verify). Do not over-tighten. After the fluid needle travel has stopped, further tightening will only serve to compress the spring and will not aid in adjustment. Next turn the knob counter-clockwise two full turns. These adjustment procedures will serve only as a starting point. Fine tuning of these adjustments will be based on your material and technique.

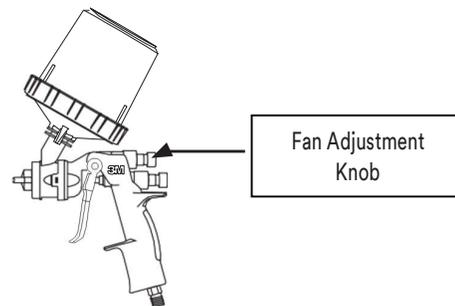
**Note:** Prior to painting, users are expected to be appropriately grounded (by either shoes or heel straps) and should wear static-dissipative or static-conductive gloves.

### Fluid Needle Adjustment Knob

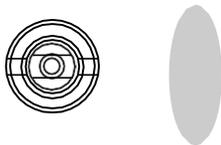


### Adjusting the Fan Pattern Size

The fan size is regulated by the fan adjustment knob as noted in Fig. 2. As a starting point, gently turn the knob clockwise until you feel no further adjustment. Next, turn the knob counter-clockwise one full rotation. The fan adjustment will allow you to spray from a small round to a full fan pattern.



Vertical Pattern



Horizontal Pattern



### Cleaning & Maintenance

**Note: Do Not Put in Gun Washer. Read, understand and follow all safety statements as well as wear appropriate, approved personal protective equipment per the applicable SDS and material container labels for cleaning solutions.**

Periodically, lubricate moving components such as the fluid needle, fan adjustment threads, fluid needle adjustment threads and spring.

Do not point the spray gun up while cleaning it



Do not immerse the spray gun in solvent



Do not wipe the spray gun with a cloth soaked in solvent; wring out the excess.



Do not use metal tools to clean the air cap holes as this may scratch them; scratches can distort the spray pattern.



## Troubleshooting

Problem	Cause	Remedy
Poor Spray Pattern	Air cap or fluid tip clogged	Replace atomizing head
	Bent fluid needle	Replace fluid needle
Heavy Middle Pattern	Not enough atomizing pressure.	Increase atomizing pressure.
	Too much fluid flowing from PPS cup.	Reduce fluid flow by turning fluid adjustment knob clockwise (CW)
Intermittent Pulsating Spray	Low fluid in cup	Add fluid
Insufficient / No Paint Flow	Clogged fluid tip	Replace atomizing head
	Loss of air pressure	Check air source
	Empty 3M™ PPS™ cup	Add fluid
	Clogged air passage	Replace atomizing head
Overspray is Excessive	Gun too far from target	6-8 inches (150-200 mm) is ideal
	Too much atomizing air for coating being sprayed	Reduce atomizing air
Coating Leak	Damaged/worn atomizing head	Replace atomizing head
	Fluid needle not closing	Ensure fluid needle spring is in place Clean fluid needle with appropriate solvent

## 5) Storage

Ensure the product is stored in a clean, dry and dust free environment.



# Technical Data Sheet

Effective: 24/11/2020 Supersedes: 01/01/2000

## 6) Safety

Please refer to the 3M™ Accuspray™ Spray Gun Kit HG14 Pressurized Spray Gun Owners Manual for detailed safety statements

**3M™ Accuspray™ Spray Gun Kit HG14 is designed FOR PROFESSIONAL INDUSTRIAL USE ONLY.**

## 7) Disclaimer

All statements, technical information and recommendations are based on tests we believe to be reliable as at the date of hereof, but the accuracy or completeness thereof is not guaranteed. Please ensure before using the product that it is suitable for your intended use. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, other than for fraudulent misrepresentation, 3M expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.



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Effective: 24/11/2020 Supersedes: 01/01/2000

For Additional Health and Safety Information

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