Eastwood®

DO THE JOB RIGHT.®

Item #19867

PROFESSIONAL UNDERCOATING GUN

INSTRUCTIONS

The **EASTWOOD PROFESSIONAL UNDERCOATING GUN** is precision engineered and designed for use by the seasoned professional or hobbyist. With the wide range of material flow adjustment and dual-capability set-up, it can apply many thicker bodied materials such as undercoating, bedliner and chip protecting film as well as thinner and rustproofing materials. The body is constructed of a highly durable and lightweight aluminum with Stainless Steel internal components which are compatible with both solvent and water-based products. Convenient reference markings on the gun body and control knobs allow for accurate repeatability of gun settings. Industrial design will provide many years of trouble-free service.

CONTENTS

- **(1)** Professional Undercoating Gun
- **(1)** One Quart Solvent Resistant Composite, Composite Material Cup
- **(3)** Flexible Transparent Wands - 5' x 1/4":
  - **(1)** Misting Head Wand
  - **(1)** 360° Spray Head Wand
  - **(1)** 90° Spray Head Wand

SPECIFICATIONS

Stainless Steel Internal Components

Working Pressure:	40-80 psi (max 140 psi); [3-4 bar. (max 10 bar)]
Approximate Air Consumption:	7 to 10 CFM [200-300 L per min]
Air Input Threads:	1/4" NPT
Nozzle/Accessory Wand Thread:	M11 x 0.75
Noise Level:	<80 dba.

Multi-Configurable for Thick Heavy-Bodied or Thin Light Bodied Materials

SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

⚠ NOTICE

NOTICE is used to address practices not related to personal injury.

⚠ READ INSTRUCTIONS!

- Thoroughly read and understand these product instructions before using this equipment. Failure to follow all warnings can result in tool damage or serious physical injury.
- Keep these product instructions for future reference.

⚠ DANGER FIRE AND EXPLOSION HAZARD!

- Do Not use near sparks, open flame or other potential ignition source. Solvents and Materials are highly combustible and may ignite or explode. Keep at least 25' away from any non-explosion proof compressors, motors, switches etc.

⚠ WARNING HEALTH HAZARD!

- Avoid breathing vapors produced by Spray Gun. Always wear appropriate NIOSH approved breathing apparatus and use in a well-ventilated area.
- Wear appropriate ANSI standard Z87.1 eye protection.
- Wear solvent-resistant gloves.
- Do not allow unprotected persons or pets in the spray area.

⚠ CAUTION BURSTING HAZARD!

- Do not exceed 150 psi (10 bar) of tool inlet pressure. Permanent tool damage and/or bursting could occur and cause personal injury.

SAFETY INFORMATION

⚠ CAUTION INJURY HAZARD!

- This Undercoat Gun can quickly spray when handling while connected to an air supply causing serious personal injury. Always disconnect the Gun from the air supply before adding material, changing nozzles, removing clogs or other maintenance.

⚠ NOTICE

- Use only Eastwood PRE, acetone or mineral spirits to clean Gun and Nozzles. Use of lacquer thinners or chlorinated or halogenated hydrocarbon solvents can corrode aluminum gun components, damage seals or emit hazardous reactive gasses.
- Use for spraying undercoating, bedliner and rustproofing products only. Do not use for spraying pesticides, fertilizer, acids or other corrosive materials and solvents.

⚠ NOTICE

- Follow Federal and Local Hazmat regulations and collect used solvent for proper disposal.

INITIAL SET-UP

- Remove all components from carton, identify them and become familiar with their purpose.
- A 3/8" I.D. minimum air hose at a 25' maximum length is strongly recommended for best results. Smaller I.D. hose and greater length may reduce available CFM and produce unsatisfactory results.
- A clean, dry, regulated air supply is required. The use of an additional "on the gun" regulator is strongly recommended to accurately control gun inlet air pressure while applying material.
- Clean out the fluid cup as well as the gun air and material passages with a solvent such as Eastwood PRE or acetone to remove any residual manufacturing impurities before use. Dry thoroughly.

GUN FEATURE IDENTIFICATION (FIG 1 & FIG 2)

A Nozzle
Used to spray thicker materials. Removed and replaced with one of three accessory Spray Wands for thinner, waxy materials

B Material Flow Control Knob

C Atomization Control Knob

D Air Flow Regulator

E Air Inlet Connection, 1/4" NPT

F Trigger

G Gun Hanging Hook

H Material Cup

J Cup Pressure Line

K Spray Head Ring

L Spray Head

FIG. 1

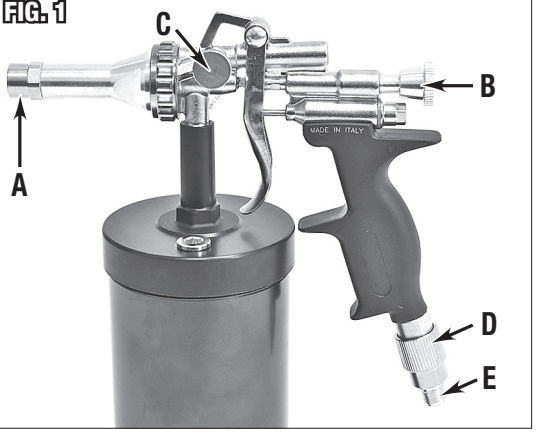
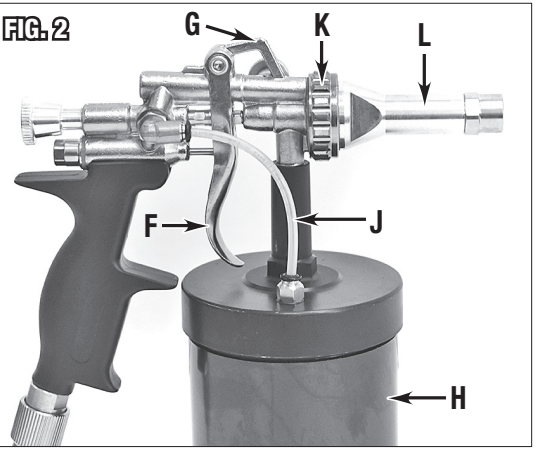


FIG. 2



GUN SET-UP AND OPERATION

The Eastwood Professional Undercoating Gun is designed to be Dual-Purpose with the ability to spray heavy bodied materials, or configured for lighter, thinner materials.

The Gun is supplied pre set-up to spray heavy materials and coatings such as undercoating, bedliner, sound proofing and heat resistant materials.

For this type of heavier, thicker material, the best performance can be expected by spraying directly through the Nozzle and without the Wand attachments.

When applying thinner, rustproofing, or wax-based materials, the 5' x 1/4" accessory Wands work very well for reaching into deep and hard to access areas.

Refer to the specific Set-Up for each type of material is described below:

- Remove all components from carton, identify them and become familiar with their purpose.


FIG. 3

GUN SET-UP FOR THICKER BODIED MATERIALS (FIG 3):

A Nozzle – Leave in place when applying thicker materials.

B Material Flow Control Knob – Rotating the Knob Clockwise will decrease the rate of material flow. Rotating the Knob Counter-Clockwise will increase the rate of material flow.

C Atomization Control Knob – Rotating the Knob Clockwise will reduce the atomization of material, creating a rougher finish texture. Rotating the Knob Counter-Clockwise will increase the atomization, creating a smoother finish texture.

D Air Flow Control – Rotating the Control Clockwise (As viewed from left side of gun) will reduce the internal air flow. Rotating the Knob Counter-Clockwise (As viewed from left side of gun) will increase the internal air flow.

GUN SET-UP FOR THINNER BODIED MATERIALS

A Nozzle
Unthread **(FIG 4)**, set aside, and replace with selected Spray Head Wand **(FIG 5)**.

A1 Misting Spray Head Wand
For thinner materials only – Applies material in a wide-angle fogging pattern.

A2 360° Spray Head Wand
For thinner materials only – Applies material in a full 360° radial pattern around the spray head.

A3 90° Spray Head Wand
For thinner materials only – Applies material in a precise, tight, 90° pattern from the spray head.

B Material Flow Control Knob
Rotate the Knob Clockwise to open and maximize material flow.

C Atomization Control Knob
Rotate the Knob Clockwise to open and maximize flow.

D Air Flow Control
Rotate the Control Clockwise (As viewed from left side of gun) to maximize air flow.

FIG. 4

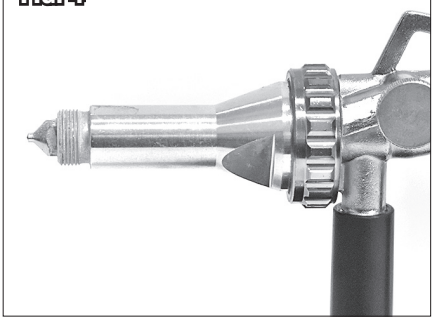
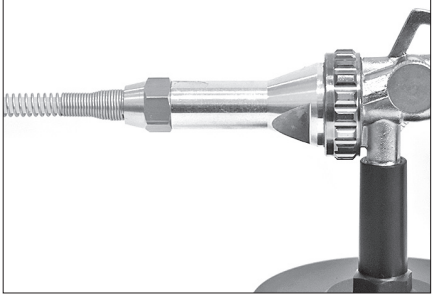


FIG. 5



IMPORTANT NOTES BEFORE APPLYING MATERIAL

1. Please note that many variables affect the adjustment of a spray gun including material viscosity and type, atmospheric conditions such as humidity, barometric pressure, and temperature as well as air inlet pressure and operator preference. Always “tune” the gun before each use as prevailing conditions may not be the same as the previous use.
2. It is always best to test spray on sheets of cardboard or masking paper with the actual material to be applied while making the required adjustments, to become familiar with the gun and achieve the ideal Gun settings.
3. Remember that a small amount of product wasted at this point can avoid disappointment in the finished results and the need to re-do work later.
4. DO NOT allow Gun to tilt up or down more than 45° while spraying or while not in use to avoid fouling of the internal passages.

- Connect Gun to compressed air supply.
- Set regulator (not included) to an initial setting of 60 PSI [5 bar]. Test spray and adjust Gun as described in SET-UP above and increase or decrease pressure as required.

> **⚠ NOTICE**
>
> **This is a Pressure type of gun; higher viscosity materials will generally require higher pressures than thinner materials however a “trial and error” Set-up is required.**

- Trigger operates similar to a HVLP paint gun.
  1/2 pull trigger will allow air only to flow.
  Full pull trigger will allow air and coating to flow.
- Always hang the Gun by the built-in hook between sprayings.
- When spraying is complete, follow Clean-Up procedure as described below.

CLEAN-UP

- Disconnect air supply to Gun.
- Remove Material Cup and pour all the unused coating possible into the original or proper container.
- Reconnect air supply to Gun.
- This Gun is designed with a Self-Clearing feature. To activate:
  - Direct the Nozzle or attached Wand Nozzle into a safe area or vessel.
  - Pull the Trigger half-way to purge any leftover material from the Gun interior, Nozzle and/or attachment Wand.
- Disconnect air supply to gun.
- Remove Material Cup.
- Wipe out any excess coating then thoroughly rinse the Material Cup with a mild solvent compatible with the coating being used.

> **⚠ NOTICE**
>
> **DO NOT use Lacquer Thinner or other harsh solvents as they may damage the seals in the Gun!**

- Pour a small amount of mineral spirts, #10194ZP, Eastwood PRE Painting Prep, acetone or a solvent compatible with the material being used in the Material Cup then re-attach the Material Cup, run solvent through the Gun in a safe area until it flows clear.
- Remove air supply from the Gun.
- Pour out any unused solvent and remove the Material Cup.

> **⚠ NOTICE**
>
> **Follow Federal and Local Hazmat regulations and collect used solvent for proper disposal.**

- Unthread and remove the Spray Head Ring **[K]**.
- Using a wrench (not included) on the flats, gently unthread the Spray Head **[L]**.
- Dip a brush in solvent and gently clean any coating present.
- Allow solvent to dry completely from all components.
- Reinstall Spray Head and Ring.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Gun Does Not Spray When Trigger is Pulled	No air supply to Nozzle	Open Air Flow Control in Handle.
		Open Atomization Control.
		Check air supply to Gun.
		1/2 pull trigger will allow air only to flow. Full pull trigger will allow air and coating to flow
Gun Sprays Air When Trigger is Pulled	No material supply to Nozzle	Depress Trigger fully (1/2 way will only discharge air for gun clearing).
		Open Material Flow Control.
Gun Dispenses Only a Small Amount of Material or None at All	Clump or piece of material film blocking material inlet port	Disconnect air supply; remove Material cup, remove blockage from Material inlet area then strain Material or coating to remove clumps or film.
Heavy Textured Material Appearance	Nozzle is too close to surface	Keep within 8” to 12”.
	Inlet air pressure too low	Increase inlet air pressure and or increase atomization.
	Incorrect thinner/reducer	Check material manufacturer’s reducing/ thinning instructions.
	Incorrect material mix ratios	Check material manufacturer’s mix ratio instructions.
Material Buildup Excessively Heavy	Gun being moved too slowly over surface	Speed up gun motion over surface.
	Excessive fluid flow	Decrease Material flow setting.
	Material mixed too thin	Check Material manufacturer’s reducing/thinning instructions.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
"Dry" Material Appearance	Gun is too far from surface	Keep within 8" to 12".
	Material Gun being moved too fast over surface	Slow down gun motion over surface.
	Inlet air pressure too high	Decrease gun inlet air pressure and or increase Material flow setting.
	Incorrect thinner/reducer	Check Material manufacturer's reducing/thinning instructions.
Thin Material Appearance	Material Gun is too far from surface	Keep within 8" to 12".
	Material Gun being moved too fast over surface	Slow down gun motion over surface.
	Inlet air pressure too high	Decrease gun inlet air pressure and or increase Material flow setting.
	Incorrect thinner/reducer	Check Material manufacturer's reducing/thinning instructions.
Spray is Sputtering	Gun being tipped too far down or up	Operate gun with Nozzle tilted no more than 45º down or up.
	Nozzle or Wand loose	Tighten Nozzle or Wand.
	Gun internal passages are contaminated	Clean gun with suitable solvent.
Gun "Spurts" at Initial Trigger Pull Then Evens Out	Air regulator set too far back in line causing pressure build up in air line	Customer supplied air regulator must be attached at or closer to air inlet of gun.

ADDITIONAL ITEMS

#10041Z	Eastwood PRE-Painting Prep, Aerosol
#10194ZP	Eastwood PRE Painting Prep, 30 oz.
#12846Z	Aerosol Injected Cleaner
#51559	Digital Regulator
#31521	Rockwood Air Coupler Set
#16327	Replacement Misting Head Wand
#16328	Replacement 360° Spray Head Wand
#16329	Replacement 90° Spray Head Wand

If you have any questions about the use of this product, please contact
The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: tech@eastwood.com
PDF version of this manual is available at eastwood.com
The Eastwood Company 263 Shoemaker Road, Pottstown, PA 19464, USA
800.343.9353 eastwood.com