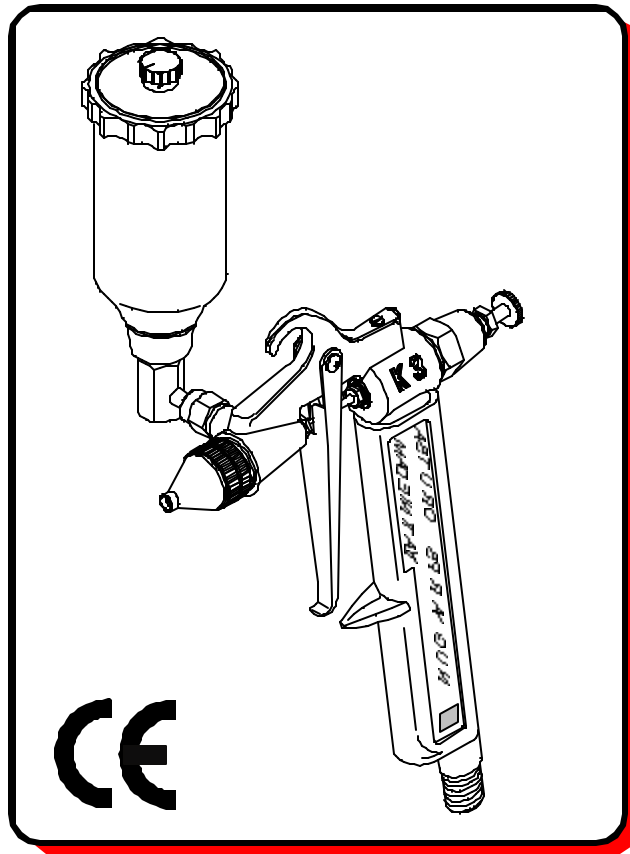


# USE AND MAINTENANCE MANUAL



WRITTEN BY REDIMEC Snc  
SETTIMO MILANESE (MI)



## K3 SPRAY GUN

(Rev. 1 - 07/02/01)  
USA - K3 - M.1.0

A.O.M.- AMERICA, LLC  
54 S. Commerce Way, Suite 180  
Bethlehem, PA 18017 USA

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
—150 9001—

Cert. -04985-99-AQ-MIL-SINCERT

## DECLARATION OF CONFORMITY



ASTURO ORIGINALI MAVES Spa  
Via Cascina Venina, 20 B/C  
Assago (MI) Italy 20090  
39-02-89305416 Fax: 39-02-89305497  
E-Mail: export@asturooriginali.com



<b>MODEL: K3</b>
<b>SERIAL NUMBER 200</b>
<b>YEAR OF MANUFACTURE</b>
<b>ACCESSORIES SUPPLIED</b>

**A.O.M.** spa DECLARES on its own responsibility that the machine to which this declaration refers, conforms with the prescriptions in the following directives:

DIRETTIVA **89/392/CEE** MODIFICATA DALLA DIRETTIVA **91/368/CEE**  
DALLA DIRETTIVA **93/44/CEE** E DALLA DIRETTIVA **93/68/CEE** (DIRETTIVA MACCHINE)  
DIRECTIVE **89/392/EEC** AMENDED BY DIRECTIVE **91/368/EEC**  
BY DIRECTIVE **93/44/EEC** AND BY DIRECTIVE **93/68/EEC** (MACHINE DIRECTIVE)

The machine also conforms with following standards:

**UNI EN 292/1** (november 1992) Sicurezza del macchinario, Concetti fondamentali, principi generali di progettazione.- Terminologia, metodologia di base  
Machine safety, Fundamental concepts. General design principles - Terminology, basic methodology.

**UNI EN 292/2** (november 1992) Sicurezza del macchinario - Concetti fondamentali, principi generali di progettazione - Specifiche e principi tecnici  
Machine safety - Fundamental concepts. General design principles - Technical specification and principals.

<b>PLACE:</b> ASSAGOS/N <b>SURNAME - NAME:</b> BRANCHINIRIZIERI <b>POSITION:</b> SOLE DIRECTOR <b>DATE:</b> / / /
--

**SIGNATURE:**.....

## Dear Customer,

Thank you for choosing one of the **A.O.M.- AMERICA** products.

**A.O.M.- AMERICA** is a division of a leading manufacturer in the field of painting systems and machinery.


The name **ASTURO ORIGINALI MAVES Spa** has always meant reliability and safety, a fact which has been supported by over 80 years of experience and by our Customer satisfaction.

All our components have been designed and manufactured to guarantee the best performance ever.

To maintain the high quality level and lengthy reliability of our products throughout the years, always use original spare parts.

All **ASTURO ORIGINALI MAVES Spa** units are equipped with the CERTIFICATION in accordance with EUROPEAN DIRECTIVE **89/392** (Machine Directive.)

We are certain we have met all safety requirements and we feel confident we have further improved working standards.

Our units, in fact, have the identification in accordance with  rulings. Furthermore, they are delivered with the instruction manual and the certificate with the Declaration of Conformity to European Directive 89/392 and to its various amendments.

*The Management*

# USE AND MAINTENANCE MANUAL



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### HOW TO USE THE MANUAL

The following manual is a document that accompanies the machine throughout its lifetime. It is, therefore, an integral part of the machine. Carefully read the following warnings and procedures before engaging in any activity with this machine, including handling and unloading it from its transportation mean.

### SYMBOLS USED

All operations which might be dangerous if not performed correctly are indicated with the

following symbol: 

All operations which, in order to avoid risks, must be performed by trained and authorized personnel are indicated by the following symbol: 

All personnel in charge of using the machine must be thoroughly trained; all the above information must be thoroughly understood and applied.

## USE AND MAINTENANCE MANUAL



### INFORMATION LETTER

The following maintenance and instruction manual is an integral part of the machine and must always be available to the personnel in charge of using and maintaining it. The operator and the personnel in charge of handling the machine must have knowledge of the contents of the manual. The descriptions and illustrations in the manual are not to be considered as binding. Although the main features of the machine described in this manual are not subject to change, **ASTURO ORIGINALI MAVES Spa** reserves the right to change those components, details and accessories it deems necessary to improve the machine or to meet manufacturing or commercial requirements, at any time and without updating this manual immediately.



**ALL RIGHTS ARE RESERVED.** The reproduction of any part of this manual, in any given form, without prior written authorization from **ASTURO ORIGINALI MAVES Spa**, is strictly forbidden. The content of this manual can be modified without prior notice. Great care has been taken in collecting and checking the documentation contained in this manual in order to make it as complete and comprehensible as possible. **ASTURO ORIGINALI MAVES Spa** machines are not designed to function in areas at risk of fires and/or explosions. For problems or information call **A.O.M.- AMERICA** customer care technical service or your local dealer.

### CUSTOMER CARE TECHNICAL SERVICE

#### A.O.M.- AMERICA

54 S. Commerce Way, Suite 180  
Bethlehem, PA 18017 USA  
TEL. 800-533-6254 or 610-954-5530  
FAX. 610-954-5532  
www.aomspray.com  
E-MAIL: AomAmerica@aol.com



The machine original configuration must not be modified in any way.  
On receiving the machine make sure that:

- + The packaging is intact and undamaged.
- + The supply corresponds to what has been ordered.
- + In case of damage please call **A.O.M.- AMERICA**

## USE AND MAINTENANCE MANUAL



### 1.1 PACKAGING

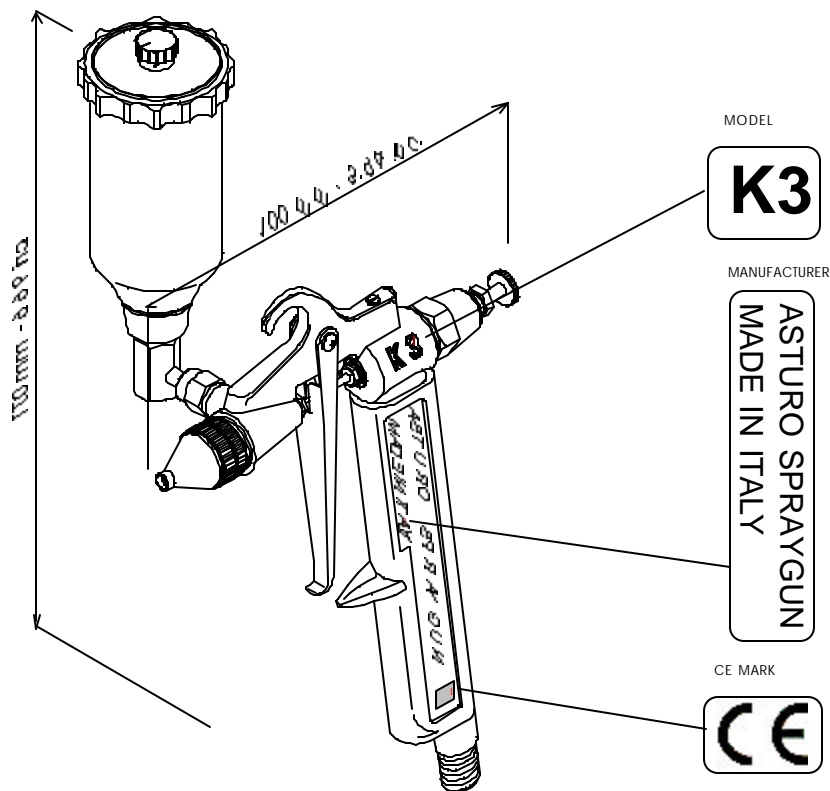
To transport the K3 spray gun, the unit is packaged in a cardboard box. All optional components are placed with the spray gun inside the same box. When transporting and storing the machine make sure the surrounding temperature remains between -15 and 40 °C (5°F and 104°F). If transportation or storage operations last 24 hours or less do not exceed 50°C (122°F) otherwise the unit could be damaged.

If the need arises to store the machine, make sure the humidity values in the storage area remain between 30 and 80%.

### 2.1 IDENTIFICATION DATA AND SPRAY GUN DIMENSIONS

The manufacturer identification and CE RULING n° 89/392 conformity is placed on a side of the spray gun (as shown below).

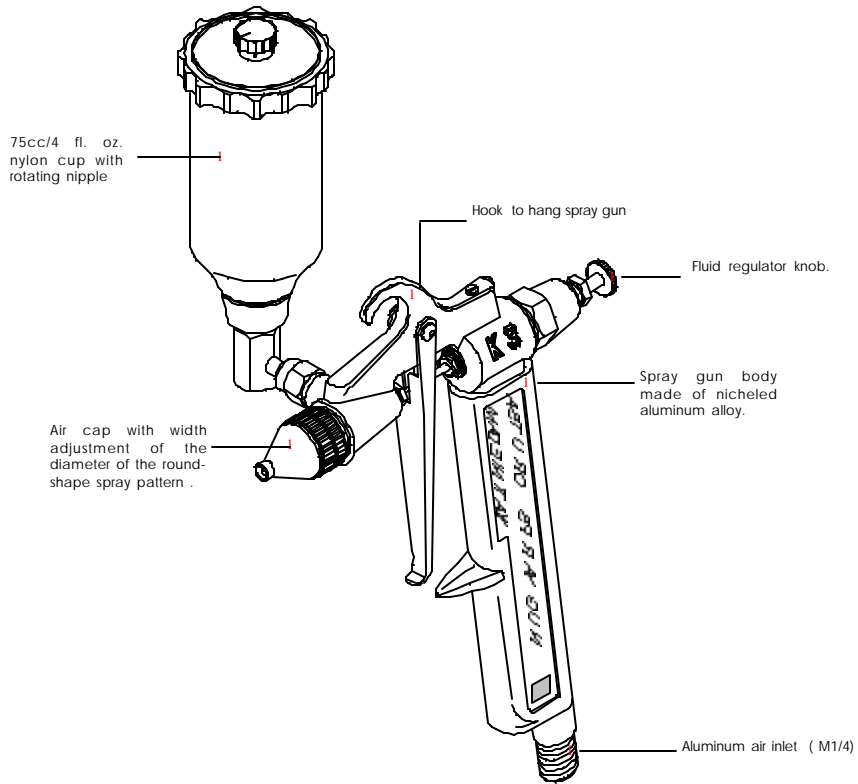
The drawing also indicates the dimensions of the spray gun





**2.2 SPRAY GUN DESCRIPTION**

The K3 spray gun is used to spray paints. It is possible to obtain smooth and even surfaces with this spray gun thanks to a sophisticated nozzle and an accurater air cap. The spray gun is light (210 gr/7.5 oz.) and user friendly; it is, therefore, ideal for all round-shape spray pattern decoration jobs guaranteeing, thus, great accuracy in finishing jobs and complex decorations. The drawing below indicates the most important features of the spray gun.



## USE AND MAINTENANCE MANUAL



### 2.3 TECHNICAL FEATURES

**ASTURO ORIGINALI MAVES SpA** carries out all the necessary tests on the spray gun before delivering it to its customers.

#### TECHNICAL FEATURES TABLE

FEATURE	VALUE
Air consumption	60L/min(c.f.m. 2)
Available nozzles	0.3 - 1.2 (0.01 - 0.04)
Needle-nozzle	Stainless steel
Max. pressure	5 Bar/ 71 psi
Operating pressure	3 Bar/42.6 psi
Weight without tank	190 gr/7 oz
Quantity in gravity tank	75cc/12 fl.oz.
Air inlet	M 1/4"

The above technical features are only exemplifying and can vary without prior notice.

### 2.4 STANDARD AND OPTIONAL COMPONENTS

The machine is delivered with the following standard components::

- + 1 - Dismantling wrench.
- + 1 - Cleaning brush.
- + 1 - 0.75 liter/4 fl.oz nylon cup
- + 1 - Use and maintenance manual.
- + 1 - Declaration of conformity to CE RULINGS.
- + 1 - Warranty certificate.

#### On request:

- + Nozzles with different measures.
- + Connection hoses.
- + Supplementary 125cc/34 fl.oz aluminum cup.

### 2.5 PAINTS, FLUIDS AND OTHER PRODUCTS

The K3 spray guns are designed to decorate or touch up metal, wood, fabrics and plastic material.

The materials which can be used in the spray gun are: monocomponent varnishes and enamels, liquid inks, double coated metal stains, pastel colors, heavy lacquers and monocomponents, two component inks. The manufacturer must authorize the use of the spray gun with other products and consequently the spray gun technical features must be changed in order to function properly with the alternative materials. **ASTURO ORIGINALI MAVES SpA** is relieved of all responsibility in case of accidents resulting from the use of the spray gun by unauthorized and unqualified personnel or by personnel using it differently than intended.

**DO NOT USE THE SPRAY GUN WITH  
FLAMMABLE OR HIGHLY TOXIC PRODUCTS  
SUCH AS GASOLINE, HERBICIDE AND PESTICIDE**



## 3.1 INSPECTION OF PURCHASED PRODUCT

Inspect the spray gun before its use to check for damages caused by transportation or improper storage. Make sure all standard and optional components have been delivered.

## 3.2 INSTALLATION CONDITIONS

The spray gun must be fed with a pressure of 3 bar/42.6 psi.  
It is advisable to use dry compressed air to obtain the best painting results.  
To mount the hoses proceed as follows (use the drawing below):

- + Connect the air inlet hose to the spray gun 1/4" nipple (A). The compressed air must come from a normal compressor with an operation pressure of 5 bar/71 psi.
- + Assemble the gravity paint cup to the spray gun nipple (3).
- + Fill the cup (2) with paint.
- + Select the most appropriate nozzle.

### WARNING

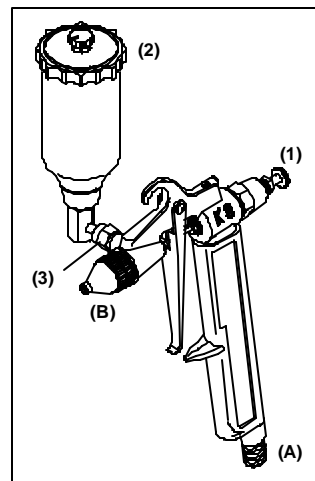
Never clog the cap on the paint cup cover.

### WARNING

Before you start using the equipment, make sure the connections and hoses are in perfect working conditions, that is without holes, bends or splits. .

## 3.3 HOW TO USE THE SPRAY GUN

- + Adjust the air and product flow with the air cap (B) (if the cap turns clockwise the air and product flows increase, if the cap turns in the opposite direction they decrease).
- + Gradually open the fluid passage by turning the fluid regulator knob(1) until the desired quantity is obtained. Check the regulation on a smooth trial surface until the desired round-shape spray pattern is obtained. .













### 3.4 EQUIPMENT AND CONDITIONS NEEDED TO WORK

Painting operations **MUST** be carried out in an appropriate spray booth equipped with a filtering system. Do not use the spray gun if the filtering system is not activated. Always wear protection gloves, goggles, breathing filters with active carbon and adequate clothing for the protection of the entire body.

### 3.5 SAFETY PROCEDURES DURING USE

**TO USE** the painting unit **STRICTLY OBSERVE** the following precautions and safety criteria. **ASTURO ORIGINALI MAVES Spa** declines every responsibility whatsoever in case the user does not observe said precautions and safety criteria; furthermore, it is not responsible for any kind of negligence when using the equipment.

#### WARNING

-  Always wear protective gloves, masks, breathing filters with activated carbon and adequate clothing for the protection of the entire body when using the spray gun.
-  The spray gun is employed with paints and thinners which are highly inflammable, therefore, use the spray gun in well ventilated areas and avoid any action which might start a fire (eg. smoking, high temperature slags or shavings, sparks or electric elements).
-  **CHECK** the chemical compatibility of the products on their technical safety charts. Further information on the materials which make up the spray gun are available, on request, at **ASTURO ORIGINALI MAVES Spa**.
-  The use of products containing organic solvents might cause intoxication because of the created toxic vapours.
-  **DO NOT USE** the unit with food or medicines.
-  **DO NOT EXCEED** the indicated maximum operating pressure (see section 2.3).
-  **BEFORE** starting on any dismantling, cleaning, maintenance or assembly operation **DISCHARGE** the pressure in the hoses (see section 4).
-  Never aim the spray gun at anything other than the surface you intend to spray.

#### IMPORTANT

**DO NOT USE** the unit with **HALOGENATED HYDROCARBON** thinners (eg. Ethylchloride, Trichloride, etc.) which might explode when in contact with aluminum or galvanized parts.

## USE AND MAINTENANCE MANUAL



### 4.1 PRESSURE DISCHARGE PROCEDURES

When the spray gun is stopped to carry out maintenance operations or at the end of the work session the operator must discharge the remaining pressure.

WARNING 

THE PRODUCT IN THE FLEXIBLE TUBE IS STILL UNDER PRESSURE.

PROCEED AS FOLLOWS:

- 1) Shut off the spray gun air supply.
- 2) Take a metal bucket and by pressing the spray gun against its side discharge the residue product by pressing the trigger.
- 3) Remove the cup and clean it with thinner; proceed, then, as indicated in the following paragraph.

### 4.2 ROUTINE MAINTENANCE

The routine maintenance of the K3 spray gun is simple and does not require special operations because its components do not need to be lubricated. Clean the spray gun daily or at the end of each working session so that product residue will not dry out on its walls, thus guaranteeing long term efficiency.

#### **CLEANING OPERATIONS:**

Pour some clean thinner inside the cup, shake the spray gun and spray (repeat the entire operation at least twice). Unscrew the air cap with the given key and disassemble the nozzle. Place everything in the thinner. Clean the head of the spray gun, the needle and the nozzle with the given brush. Assemble the spray gun, lubricate the threaded parts with a thin layer of oil and screw it tightly.

**DO NOT USE POINTED METAL OBJECTS TO CLEAN CLOGGED PASSAGE HOLES. THESE OPERATIONS WOULD DAMAGE THEM, REDUCING THEIR SPRAYING QUALITY.**

Wash the paint cup with thinner (if it is not going to be used again do not assemble it back on) and clean the body of the pump with a cloth soaked in it. In case industrial washers are used to clean the spray gun, close the fan adjustment knob and the needle adjustment knob tightly by turning them clockwise in order to avoid thinner infiltrations which might, in time, damage the packings. Once in a while, lubricate the threaded parts such as the air cap and the needle stroke adjustment knob with a thin layer of synthetic oil, in order to avoid seizing up caused by the effect of thinners on the spray gun components.

**THE LUBRICANTS USED MUST NOT CONTAIN SILICONE.**

WARNING 

**IF THE NEED ARISES CALL THE A.O.M.- AMERICA CUSTOMER CARE TECHNICAL SERVICE**



### 4.3 TROUBLESHOOTING

This chapter describes how to solve the most common problems which could affect the unit.

The problem is indicated by the following symbol: (6)

The possible cause is indicated by the following symbol: (B)

The possible solution is indicated by the following symbol: (I)

#### 6 THE SPRAY GUN SPRAYS INTERMITTENTLY ?

B Spray nozzle is loose.

B Worn needle packing

B Worn cone head packing.

I Tighten the nozzle.

I Replace the packing nut.

I Replace the nozzle.

#### 6 UNEVEN JET ?

B Worn or dirty cap air holes.

B Worn or dirty nozzle.

I Clean the spray gun components carefully.

I Replace damaged parts.

#### 6 PAINT LEAKS OUT OF THE PACKING NUT?

B Worn packing nut.

I Replace the packing nut.

#### 6 NOZZLE LEAKS WITHOUT PRESSING THE TRIGGER?

B Needle and nozzle are dirty with dry paint

B Worn needle and nozzle.

I Clean the spray gun parts very carefully.

I Replace the needle and the nozzle.

#### 6 AIR COMES OUT WHEN THE TRIGGER IS RELEASED?

B The air valve rod does not slide.

B The air valve body is dirty.

B Air valve packing nut too tight

I Lightly lubricate the components of the spray gun.

I Clean with care.

I Loosen packing nut.

## WARRANTY

All **ASTURO ORIGINALI MAVES Spa** appliances are guaranteed for a period of 12 months from the date written on the invoice, unless otherwise stated in writing. The warranty covers all manufacturing faults and material defect. Replacements and repair operations are covered only if carried out by our company and at our servicing shops.

The faulty parts must be sent **CARRIAGE FREE**.

Once the components have been repaired they will be sent **CARRIAGE PAID** to the customer.

The warranty does not cover our company personnel aid during installation or dismantling operations. If for practical purposes one of our employee is sent to the premises, a charge will be made for the time plus extra for travelling and expenses.

Our warranty does not cover direct or indirect damage, to people or property, caused by our appliances and it does not cover repair operations carried out by the owner or by a third party.

The following are not covered by our warranty:

- + failure caused by incorrect use or assembly.
- + failure caused by external agents.
- + failure caused by lack of maintenance or negligence.

### WARRANTY FORFEITURE:

If the form attached below is not completed and returned.

In case of delayed payment or other contract defaults.

All repair operations carried out under warranty do not interrupt its duration.

Whenever changes or repairs are carried out on our machinery without prior authorization

Whenever the unit seems tampered with, dismantled or previously repaired in unauthorized workshops.

Whenever the serial number is damaged or removed.

When the damage is caused by improper use or functioning, or if the machine falls, is bumped or by other causes of malfunctioning not due to normal working conditions

**All disputes will be settled in the court of justice of Milan (Italy).**

---

NAME: \_\_\_\_\_  
COMPANY: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
V.A.T. NUMBER: \_\_\_\_\_  
UNIT MODEL: \_\_\_\_\_  
SERIAL NUMBER: \_\_\_\_\_  
DATE: \_\_\_\_\_  
STAMP AND SIGNATURE: \_\_\_\_\_

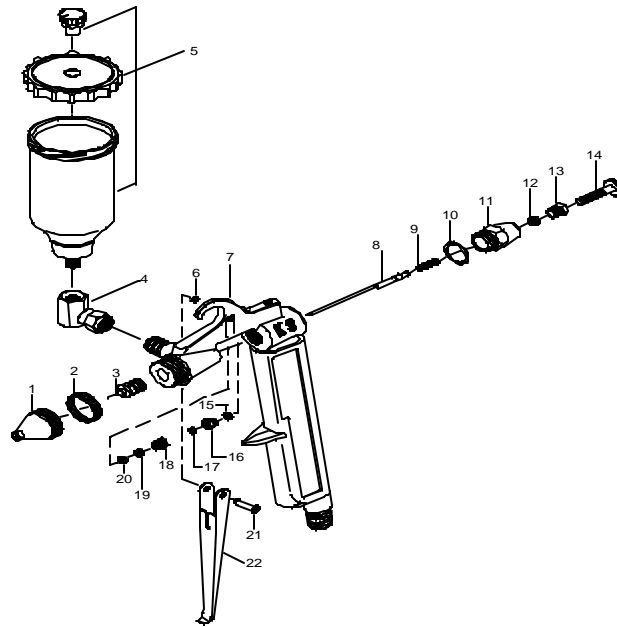
**Send this form fully completed (capital letters) to:**

**A.O.M.- AMERICA**  
54 S. Commerce Way, Suite 180  
Bethlehem, PA 18017 USA

# USE AND MAINTENANCE MANUAL



## SPRAY GUN ASSEMBLY DRAWING



Pos.	CODE	Description			
2	15372A	K3 Air cap ring			
4	15451A	K3 compl. 90L/14.4 fl.oz. cup rotating nipple.			
5	15900SE	75cc/12 fl.oz. nylon cup			
6	19622A	Berzing ring stainless steel 2.3			
7	15365A	K3 complete body			
9	15397A	K3 spring-pushing needle			
10	15399A	K3 back nut packing			
11	15398A	K3 back nut			
12	15430A	K3 Adjusting screw packing nut			
13	15431A	K3 Adjusting screw packing nut			
14	15447A	K3 Adjusting screw opening needle			
15	15395A	K3 Pump packing nut			
16	15396A	K3 Pump packing nut			
17	15435A	K3 Sphere washer			
18	15394A	K3 Needle packing nut			
19	15393A	K3 PTFE 6x1.6x3(0.2x0.05x0.1) Needle packing nut			
20	15438A	5,5x2,8x3 (0.18x0.09x0.1) Needle, leather packing nut			
21	15433A	K3 Lever pivot			
22	15432A	K3 Trigger Lever			
23	20690A	K3 key			
24	24097R	Nylon brush			
			1	15383A	K3 AIR CAP Ø0.3
				15385A	K3 AIR CAP Ø0.5
				15387A	K3 AIR CAP Ø0.7
				15390A	K3 AIR CAP Ø1.0
				15392A	K3 AIR CAP Ø1.2
			3	15373A	K3 NOZZLE Ø0.3
				15375A	K3 NOZZLE Ø0.5
				15377A	K3 NOZZLE Ø0.7
				15380A	K3 NOZZLE Ø1.0
				15382A	K3 NOZZLE Ø1.2
			8	15453A	K3 COMP. NEEDLE Ø0.3
				15455A	K3 COMP. NEEDLE Ø0.5
				15457A	K3 COMP. NEEDLE Ø0.7
				15460A	K3 COMP. NEEDLE Ø1.0
				15462A	K3 COMP. NEEDLE Ø1.2

158XX Needle-Nozzle-Air cap KIT (replace xx with the nozzle dimensions) (Pos. 1-3-8)  
 15495A Packing and springs KIT (Pos. 19-15-9-12-13-20)  
 15900SE 75cc/12 fl.oz cup