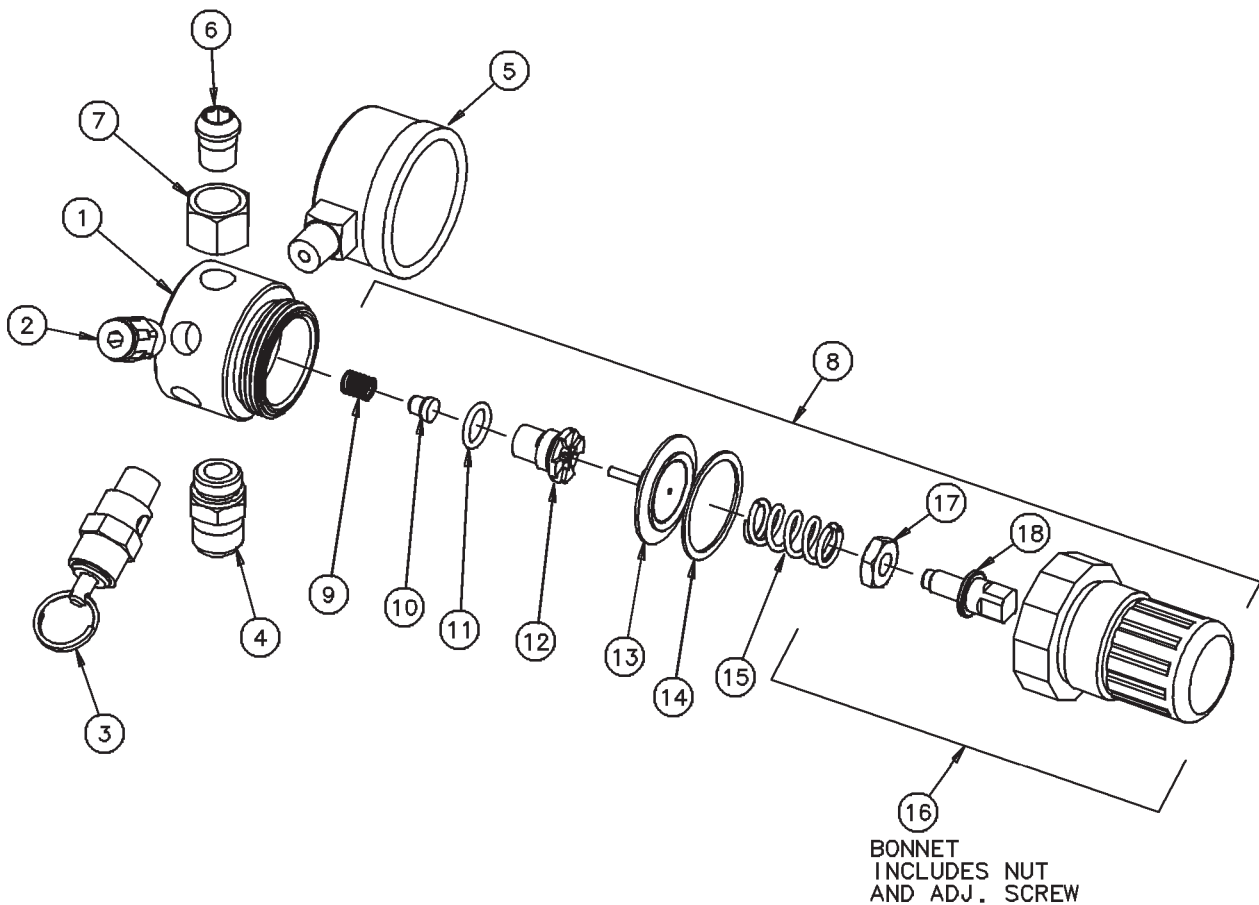




MODEL 85-435 AIR PRESSURE REGULATOR



Ref. No.	Replacement Part No.	Description	Ind. Parts Req'd.
1	85-436	REGULATOR BODY	1
2	54-4945-K10	PUSH-LOK FITTING	1
3	TIA-4326	SAFETY VALVE	1
4	54-308	AIR CONNECTION	1
5	GA-313	GAUGE, 15 PSI	1
6	72-104	TAIL PIECE	1
7	72-93	SWIVEL NUT	1
8	85-437	REGULATOR KIT (0-15 PSI)	1
9	*▲	VALVE SPRING	1
10	*▲	VALVE (PTFE)	1

Ref. No.	Replacement Part No.	Description	Ind. Parts Req'd.
11	*▲	O-RING (VALVE SEAT)	1
12	*▲	VALVE SEAT	1
13	*▲	RELIEVING DIAPHRAGM	1
14	*▲	SLIP RING	1
15	*▲	REGULATING SPRING	1
16	*▲	BONNET	1
17	*▲	NUT	1
18	*▲	ADJUSTING SCREW	1

* Not available separately.

▲ Available in 85-437 Regulator Kit.

In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

WARNING

Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.

CAUTION

Hazards or unsafe practices which could result in minor personal injury, product or property damage.

NOTE

Important installation, operation or maintenance information.

WARNING

Read the following warnings before using this equipment.



READ THE MANUAL

Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



OPERATOR TRAINING

All personnel must be trained before operating finishing equipment.



EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.



LOCK OUT / TAG-OUT

Failure to de-energize, disconnect, lock out and tag-out all power sources before performing equipment maintenance could cause serious injury or death.



AUTOMATIC EQUIPMENT

Automatic equipment may start suddenly without warning.



PRESSURE RELIEF PROCEDURE

Always follow the pressure relief procedure in the equipment instruction manual.



KEEP EQUIPMENT GUARDS IN PLACE

Do not operate the equipment if the safety devices have been removed.



KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY



WEAR SAFETY GLASSES

Failure to wear safety glasses with side shields could result in serious eye injury or blindness.



INSPECT THE EQUIPMENT DAILY

Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.



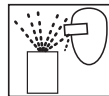
NEVER MODIFY THE EQUIPMENT

Do not modify the equipment unless the manufacturer provides written approval.



NOISE HAZARD

You may be injured by loud noise. Hearing protection may be required when using this equipment.



PROJECTILE HAZARD

You may be injured by venting liquids or gases that are released under pressure, or flying debris.



PINCH POINT HAZARD

Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.



STATIC CHARGE

Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.



WEAR RESPIRATOR

Toxic fumes can cause serious injury or death if inhaled. Wear a respirator as recommended by the fluid and solvent manufacturer's Safety Data Sheet.



TOXIC FLUID & FUMES

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, injected or swallowed. LEARN and KNOW the specific hazards or the fluids you are using.



FIRE AND EXPLOSION HAZARD

Improper equipment grounding, poor ventilation, open flame or sparks can cause a hazardous condition and result in fire or explosion and serious injury.



MEDICAL ALERT

Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor you suspect an injection injury.
- Show the doctor this medical information or the medical alert card provided with your airless spray equipment.
- Tell the doctor what kind of fluid you were spraying or dispensing.



GET IMMEDIATE MEDICAL ATTENTION

To prevent contact with the fluid, please note the following:

- Never point the gun/valve at anyone or any part of the body.
- Never put hand or fingers over the spray tip.
- Never attempt to stop or deflect fluid leaks with your hand, body, glove or rag.
- Always have the tip guard on the spray gun before spraying.
- Always ensure that the gun trigger safety operates before spraying.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT. FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

REGULATOR DISASSEMBLY, CLEANING AND REASSEMBLY

WARNING

**Risk of injury from pressurized components.
Turn off inlet air pressure and bleed off remaining pressure
before disassembly.**

DISASSEMBLY

1. Turn regulator knob counterclockwise until it stops.
2. Unscrew the bonnet from the regulator body, remove adjusting screw and nut, then the regulating spring, slip ring, and diaphragm. Unscrew the valve seat and o-ring assembly using a screwdriver. Then remove the valve and valve spring.

CLEANING

1. Clean parts using warm water and soap.
2. Inspect all parts.
3. Replace damaged parts.

REASSEMBLY

1. At reassembly, apply a small amount of Gunners Mate lubricant (54-3871) to the adjusting screw threads.
2. Torque the valve seat to 4-6 inch-lbs. Torque the bonnet to 50-60 inch-lbs.

REGULATOR OPERATION

OPERATION

1. Do not exceed 95 PSI inlet pressure.
2. Do not exceed 15 PSI outlet pressure. Recommended fluid pressure for the MACH I HVLP gun is 3 to 5 PSI. Actual fluid pressure will vary with fluid nozzle and fluid viscosity.
3. When reducing the regulator setting it is necessary to relieve fluid supply cup of its previously set pressure.

CAUTION

Do not immerse this regulator in solvent or allow solvents to enter any of the regulator openings. When using a gun cleaning cabinet, remove the regulator before cleaning the gun.

WARRANTY POLICY

This product is covered by Carlisle Fluid Technologies' materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. Failure to reasonably follow any maintenance guidance provided may invalidate any warranty.

For specific warranty information please contact Carlisle Fluid Technologies.

For technical assistance or to locate an authorized distributor, contact one of our international sales and customer support locations.

Region	Industrial / Automotive	Automotive Refinishing
Americas	Tel: 1-800-992-4657 Fax: 1-888-246-5732	Tel: 1-800-445-3988 Fax: 1-800-445-6643
Europe, Africa, Middle East, India	Tel: +44 (0)1202 571 111 Fax: +44 (0)1202 573 488	
China	Tel: +8621-3373 0108 Fax: +8621-3373 0308	
Japan	Tel: +81 45 785 6421 Fax: +81 45 785 6517	
Australia	Tel: +61 (0) 2 8525 7555 Fax: +61 (0) 2 8525 7575	

For the latest information about our products, visit www.carlisleleft.com

Carlisle Fluid Technologies is a global leader in innovative finishing technologies. Carlisle Fluid Technologies reserves the right to modify equipment specifications without prior notice.

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