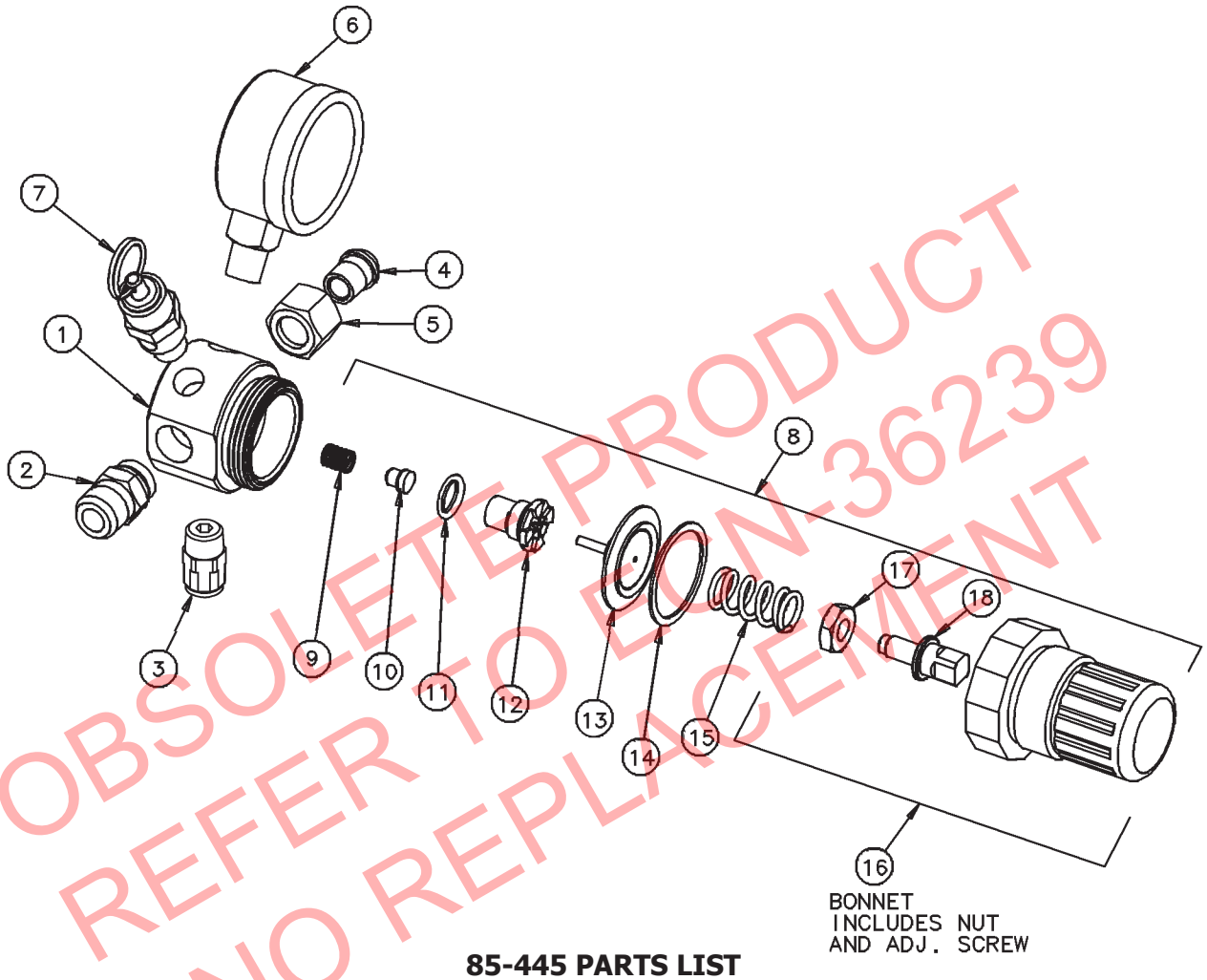
MODEL 85-445
AIR PRESSURE REGULATOR



85-445 PARTS LIST

Ref. No.		Replacement Part No.	Description	Ind. Parts Req'd.
1		85-436	REGULATOR BODY	1
2		54-308	AIR CONNECTION	1
3		54-4945	TUBE FITTING	1
4		72-104	TAIL PIECE	1
5		72-93	SWIVEL NUT	1
6		85-70	GAUGE, (60 PSI)	1
7		85-243	SAFETY VALVE (55 PSI)	1
8		85-438	REGULATOR KIT (0-50 PSI)	—
9	*▲■	—	VALVE SPRING	1
10	*▲■	—	VALVE, (PTFE)	1
11	*▲■	—	O-RING (VALVE SEAT)	1

Ref. No.		Replacement Part No.	Description	Ind. Parts Req'd.
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 85-438 Regulator Kit.
■ Available in KK-4887-2 Regulator Repair 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.

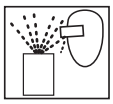
KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY

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 Material 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

DISASSEMBLY

⚠ WARNING

Risk of injury from pressurized components. Turn off inlet air pressure and bleed off remaining pressure before 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. 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 spray gun cleaning cabinet, remove the regulator before cleaning the spray 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	

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