C.A.Technologies

Set-Up Recommendations for M.L. CAMPBELL WOOD FINISHING SYSTEMS

Spray Equipment Guide
Louisville - Colorado - USA

Superior Spray Systems
From C.A. Technologies

Made in USA

Cougar

C.A.T. AAA Configurations

The C.A.Technologies 14:1 Air Assist Airless Pump can now be supplied with either the Cougar or the Bobcat AAA spray guns. The Cougar outfits will come standard with 3/16" fluid hose and 1/4" air hose (53-402A) and be designated by the part # OC14. The Bobcat outfits feature the new lightweight ergonomic design with ultra light trigger pull. This outfit will come standard with the new 1/8" fluid hose and 1/4" air hose (53-404A) and be designated by the part # OB14.

Bobcat

OC14-C5
CART MOUNT

OB14-C5
CART MOUNT

53-402A
AAA 25' HOSE SET
(Available in 50' and 100' sets)

53-404A
AAA 25' HOSE SET
(Available in 50' and 100' sets)

OC14-W5
WALL MOUNT

OC14-W55
WALL MOUNT

OB14-W5
WALL MOUNT

OB14-W55
WALL MOUNT

CAT-X
CAT-EXtreme (HVLP / Pressure Reduced)

C.A.Technologies is proud to introduce our new CAT-X professional grade spray gun. The CAT-X provides extreme atomization, handle ergonomics, and fluid delivery superior to all the competitive guns on the market today. The CAT-X includes the HVLP air cap and the pressure reduced air cap to meet all the codes and regulations throughout the United States. The CAT-X comes in five distinctive handle designs, allowing you to customize your finishing experience.

CPR
CAT Pressure Reduced

The CPR spray guns from CAT combine the transfer efficiency of HVLP with the speed and finish quality of conventional air spray. The CPR guns are available in both the pressure and gravity versions and include the new CPR air cap and the HVLP air cap, along with 3 different needle and nozzle sizes, multipurpose wrench, nozzle wrench, cleaning brush and mini regulator. These kits will also be available with your standard pressure or gravity cups or the more popular 3M PPS.

TJR. Techline JR. HVLP (Glaze)

The Techline TJR is an economically priced gravity feed mini gun for use with a range of coatings from top coats to stains. This is great for all your touch up needs.

CP-J100H
Low CFM HVLP - Gravity

The J100H is our low CFM gravity feed spray gun. The 21-1090 air cap only uses 6 CFM, which enables the Jaguar 100H to be operated with a 2 HP compressor. This setup is designed for use with a low air consumption compressor.

CP-FELCFM
Low CFM HVLP - Pressure

The FE-Line LCFM HVLP is our low CFM lightweight ergonomic spray gun. The 21-1090 air cap only uses 6 CFM, which enables the FE-Line LCFM to be operated with a 2 HP compressor. This setup is designed for use with a low air consumption compressor.

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Set-Up Recommendations for M.L. CAMPBELL WOOD FINISHING SYSTEMS

CLEAR TOPCOATS (POST-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Krystal VISCOSITY FORD #4 25-30 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	420 PSI
KlearVar VISCOSITY FORD #4 15-19 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	375 PSI
DuraVar VISCOSITY FORD #4 25-30 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	375 PSI
Enviro Var VISCOSITY FORD #4 20 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	375 PSI
High Performance Conversion Varnish VISCOSITY FORD #4 15 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	375 PSI

SEALER (POST-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Krystal Sealer VISCOSITY FORD #4 25-30 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	375 PSI
Level Sealer VISCOSITY FORD #4 25-30 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	375 PSI

CLEAR TOPCOATS (PRE-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
MagnaKlear VISCOSITY FORD #4 25-30 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	420 PSI
MagnaMax VISCOSITY FORD #4 25-30 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	OC14 OR OB14	411	15-18 PSI	420 PSI
High Performance WW Pre-Cat Clear VISCOSITY FORD #4 25-30 SECONDS	Reduce as needed to meet Visciosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Visciosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Visciosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Visciosity	H20 OC14 OR OB14	409F	17 PSI	350 PSI

*** Tip size may be changed based on the user's speed of application**
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SEALER (PRE-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
MagnaSand Sealer VISCOSITY FORD #4 20-25 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	4-6 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR	1.3 X 2101	29 PSI	4-6 PSI
	Reduce as needed to meet Viscosity	CPR-G-W	1.5 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.5 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	OC14 OR OB14	411	15-18 PSI	375 PSI

SEALER (VINYL)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Water White Vinyl Sealer VISCOSITY FORD #4 13-18 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	4-6 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR	1.3 X 2101	29 PSI	4-6 PSI
	Reduce as needed to meet Viscosity	CPR-G-W	1.3 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.3 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	OC14 OR OB14	411	15-18 PSI	350 PSI
Quick Dry Vinyl Sealer VISCOSITY FORD #4 13-18 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	4-6 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR	1.3 X 2101	29 PSI	4-6 PSI
	Reduce as needed to meet Viscosity	CPR-G-W	1.3 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.3 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	OC14 OR OB14	411	15-18 PSI	350 PSI

PIGMENTED TOPCOATS (POST-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Resistant VISCOSITY FORD #4 30-35 SECONDS	5% - 10% C16036 Lacquer Thinner	CP-FELCFM	1.5 X 1090	15 PSI	5-7 PSI
	5% - 10% C16036 Lacquer Thinner	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	5% - 10% C16036 Lacquer Thinner	CPR	1.5 X 2101	29 PSI	5-7 PSI
	5% - 10% C16036 Lacquer Thinner	CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	5% - 10% C16036 Lacquer Thinner	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	5% - 10% C16036 Lacquer Thinner	OC14 OR OB14	409	15-18 PSI	560 PSI
Stealth VISCOSITY FORD #4 22-25 SECONDS	25% C1621 Care Reducer	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	25% C1621 Care Reducer	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	25% C1621 Care Reducer	CPR	1.3 X 2101	29 PSI	5-7 PSI
	25% C1621 Care Reducer	CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	25% C1621 Care Reducer	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	25% C1621 Care Reducer	OC14 OR OB14	409	15-18 PSI	560 PSI

PIGMENTED TOPCOATS (PRE-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
MagnaMax White / Opaque Base VISCOSITY FORD #4 30-35 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.4 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	OC14 OR OB14	411	15-18 PSI	490 PSI
High Performance Pre-Cat White VISCOSITY FORD #4 22-24 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	OC14 OR OB14	411	15-18 PSI	490 PSI

PRIMERS/UNDERCOATERS (POST-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Clawlock II VISCOSITY FORD #4 40-50 SECONDS	10% Care Reducer or C160-36	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	10% Care Reducer or C160-36	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	10% Care Reducer or C160-36	CPR	1.3 X 2101	29 PSI	5-7 PSI
	10% Care Reducer or C160-36	CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	10% Care Reducer or C160-36	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	10% Care Reducer or C160-36	OC14 OR OB14	409	15-18 PSI	560 PSI
Level Primer VISCOSITY FORD #4 40-50 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.7 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR	1.7 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	CPR-G-W	2.2 X 1301	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	2.2 X 1411	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	OC14 OR OB14	409	15-18 PSI	560 PSI

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PRIMERS/UNDERCOATERS (PRE-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
MagnaClaw VISCOSITY FORD #4 40-50 SECONDS	10% C-160-36 Standard Thinner	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	10% C-160-36 Standard Thinner	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	10% C-160-36 Standard Thinner	CPR	1.3 X 2101	29 PSI	5-7 PSI
	10% C-160-36 Standard Thinner	CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	10% C-160-36 Standard Thinner	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	10% C-160-36 Standard Thinner	OC14 OR OB14	409	15-18 PSI	490 PSI
	unreduced	OC14 OR OB14	411	15-18 PSI	490 PSI
Quick Dry Vinyl Primer VISCOSITY FORD #4 40-50 SECONDS	No Reduction Necessary	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	No Reduction Necessary	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	No Reduction Necessary	CPR	1.3 X 2101	29 PSI	5-7 PSI
	No Reduction Necessary	CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	No Reduction Necessary	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	No Reduction Necessary	OC14 OR OB14	409	15-18 PSI	490 PSI
	No Reduction Necessary	OC14 OR OB14	411	15-18 PSI	490 PSI

STAINS/DYES

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Amazing Stain	Reduce as needed to meet Viscosity	TJR	1.2	10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR-G-W	1.0 X 1301	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.0 X 1411	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-J100H	1.0 X 1090	8-10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-FELCFM	.8 X 1090	8-10 PSI	2-4 PSI
	Reduce as needed to meet Viscosity	CPR	.8 X 2101	12-16 PSI	2-4 PSI
WoodSong II 2.5% Spray Only Stain Base	Reduce as needed to meet Viscosity	TJR	1.2	10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR-G-W	1.0 X 1301	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.0 X 1411	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-J100H	1.0 X 1090	8-10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-FELCFM	.8 X 1090	8-10 PSI	2-4 PSI
	Reduce as needed to meet Viscosity	CPR	.8 X 2101	12-16 PSI	2-4 PSI
Microton Dyes VISCOSITY FORD #4 8-9 SECONDS	Reduce as needed to meet Viscosity	TJR	1.2	10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR-G-W	1.0 X 1301	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.0 X 1411	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-J100H	1.0 X 1090	8-10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-FELCFM	.8 X 1090	8-10 PSI	2-4 PSI
	Reduce as needed to meet Viscosity	CPR	.8 X 2101	12-16 PSI	2-4 PSI

GLAZES

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Vintage Alkyd Glaze VISCOSITY FORD #4 15-17 SECONDS	Reduce as needed to meet Viscosity	TJR-GLAZE	GLAZE TIP	0 PSI	GRAVITY
	Reduce as needed to meet Viscosity	TJR	1.2	10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR-G-W	1.0 X 1301	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.0 X 1411	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-J100H	1.0 X 1090	8-10 PSI	GRAVITY
Amazing Glaze VISCOSITY FORD #4 9-11 SECONDS	Reduce as needed to meet Viscosity	TJR-GLAZE	GLAZE TIP	0 PSI	GRAVITY
	Reduce as needed to meet Viscosity	TJR	1.2	10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR-G-W	1.0 X 1301	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.0 X 1411	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-J100H	1.0 X 1090	8-10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-FELCFM	.8 X 1090	8-10 PSI	2-4 PSI
	Reduce as needed to meet Viscosity	CPR	.8 X 2101	12-16 PSI	2-4 PSI

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WATER BORNE PRODUCTS

CLEAR TOPCOATS (POST-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Aguatana 2k Water Borne Polyurethane VISCOSITY FORD #4 23 SECONDS	Reduce as needed to meet Viscosity	H20-CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	H20-CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	H20 OC14 OR OB14	409F	15-18 PSI	375 PSI

CLEAR TOPCOATS (PRE-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Agualente VISCOSITY FORD #4 35-45 SECONDS	5% Water	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	5% Water	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	5% Water	H20-CPR	1.3 X 2101	29 PSI	5-7 PSI
	5% Water	H20-CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	5% Water	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	5% Water	H20 OC14 OR OB14	409F	17 PSI	350 PSI

SEALERS

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
High Performance Water Borne Production Sealer VISCOSITY FORD #4 25 SECONDS	5% Water	CP-FELCFM	1.3 X 1090	15 PSI	7-9 PSI
	5% Water	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	5% Water	H20-CPR	1.3 X 2101	29 PSI	7-9 PSI
	5% Water	H20-CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	5% Water	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	5% Water	H20 OC14 OR OB14	409F	17 PSI	350 PSI
Agualente Sealer VISCOSITY FORD #4 35-45 SECONDS	5% Water	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	5% Water	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	5% Water	H20-CPR	1.3 X 2101	29 PSI	5-7 PSI
	5% Water	H20-CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	5% Water	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	5% Water	H20 OC14 OR OB14	409F	17 PSI	350 PSI

CLEAR TOPCOATS (PRE-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Agualente White / Opaque Base VISCOSITY FORD #4 35-45 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	H20-CPR	1.3 X 2101	29 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	H20-CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	H20 OC14 OR OB14	409F	17 PSI	350 PSI

PRIMERS / UNDERCOATERS (PRE-CATALYZED)

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Agualente Stain Blocking Primer VISCOSITY FORD #4 40-50 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	7-9 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	H20-CPR	1.3 X 2101	29 PSI	7-9 PSI
	Reduce as needed to meet Viscosity	H20-CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	H20 OC14 OR OB14	409F	17 PSI	350 PSI

STAINS / DYES

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
WoodSong II Water Borne Stain Base	Reduce as needed to meet Viscosity	TJR	1.2	10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CP-J100H	1.0 X 1090	8-10 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CPR-G-W	1.0 X 1301	12-15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.0 X 1411	12-15 PSI	GRAVITY

GLAZES

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
Water Borne Glaze	Reduce as needed to meet Viscosity	TJR-GLAZE W/ P-CUP	GLAZE TIP	0 PSI	5-7 PSI
	Reduce as needed to meet Viscosity	TJR W/ PRES-CUP	1.4	10 PSI	5-7 PSI

*** Tip size may be changed based on the user's speed of application**
*** For best results please use the recommended air and fluid pressures listed**

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Set-Up Recommendations for M.L. CAMPBELL WOOD FINISHING SYSTEMS

WATER BORNE PRODUCTS

LACQUER

MATERIAL	REDUCTION	GUN / TECHNOLOGY	TIP / AIR CAP	AIR PRESS.	FLUID PRESS.
High Performance Water Borne Production Lacquer VISCOSITY FORD #4 26 SECONDS	Reduce as needed to meet Viscosity	CP-FELCFM	1.3 X 1090	15 PSI	7-9 PSI
	Reduce as needed to meet Viscosity	CP-J100H	1.7 X 1090	15 PSI	GRAVITY
	Reduce as needed to meet Viscosity	H20-CPR	1.3 X 2101	29 PSI	7-9 PSI
	Reduce as needed to meet Viscosity	H20-CPR-G-W	1.7 X 2101	29 PSI	GRAVITY
	Reduce as needed to meet Viscosity	CAT-X	1.7 X 1352	35 PSI	GRAVITY
	Reduce as needed to meet Viscosity	H20 OC14 OR OB14	409F	17 PSI	350 PSI

*** Tip size may be changed based on the user's speed of application**
*** For best results please use the recommended air and fluid pressures listed**

H2O-CPR

- Available in gravity and pressure kits
- Stainless Steel Fluid Passages
- Patented 12 point atomization
- Includes 3 needle & nozzle sizes
- Includes HVLP and pressure reduced air caps
- Available with 3M PPS pressure cup system



H2O-Air Assist Airless

CAT is pleased to announce that our new waterborne equipment is available. We have labeled the equipment for this application so customers will not confuse the solvent based and water based units in their shops. The H2O AAA units help reduce the sheering of materials, eliminating many of the problems associated with spraying waterborne coatings.

Pump Designation:

Bobcat Outfits	H2O-OB14-C5-12-XXX-F
	H2O-OB14-W5-12-XXX-F
Cougar Outfits	H2O-OC14-C5-12-XXX-F
	H2O-OC14-W5-12-XXX-F

H2O AAA outfits will include the following

- Pre-atomizing fine finish opti-tip (36-XXX-F)
- 100 Mesh gun handle filter
- 1/2" Material pick-up tube
- 3/16" Fluid hose with stainless steel couplings
- Larger fluid passages

H2O-Air Blast Quick Dryer

H2O Air Blast Quick Dryer: Speeds drying time of waterborne coatings while reducing micro bubbles.

54-540 Outfit - Includes 2 air blast guns, adjustable stand (height to 84", width to 34"). Variable air flow control with low CFM consumption (11.5 @ 50 psi) and high CFM output.

54-541 Gun Only - Air Blast Guns can be hand held or mounted on stand.

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Cups and Tanks

1qt PPS Cup System

CAT91-498

Mini PPS Pressure Cup

CAT91-488

1qt PPS Pressure Cup

CAT91-483

1qt Pressure Cup w/ Reg for HVLP Guns

CAT51-303R2

2 Quart Outfits

Available with 5' Air and Fluid Hoses

CAT51-130
Economy 2 qt

CAT51-600
Bandit 2 qt

CAT51-600A
Bandit 2 qt w/ Air Agit

CAT51-672
Anti - Tip Stand

Tank Outfits

Available with 25' Air and Fluid Hoses

CAT51-202
2.5 Gallon Tank

CAT51-508
5 Gallon Tank

CAT51-504
5 Gallon Tank w/ Air Agit

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C.A.Technologies

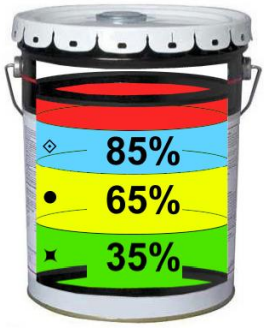
Square Foot Coverage Per Product and Spray Technology

M.L. CAMPBELL WOOD FINISHING SYSTEMS

M.L. CAMPBELL WOOD FINISHING SYSTEMS

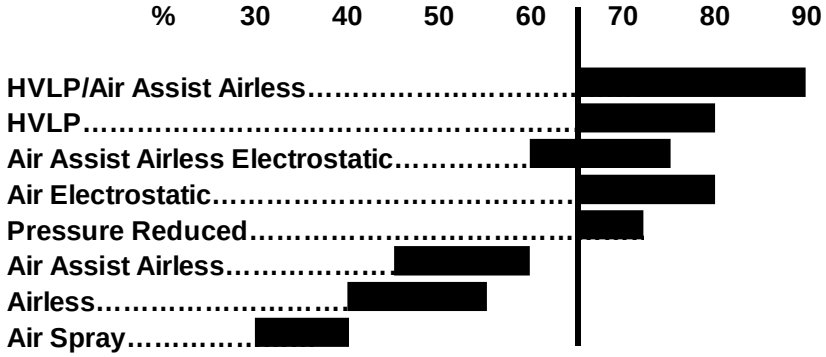
M.L. Campbell Square Foot Coverage Per Product and Spray Technology

- Air Assist Airless
- HVLP
- Conventional



Transfer Efficiency

Baseline Transfer Efficiency of Coating Methods



(Note: Material coverage per gallon is an approximate spread rate.)

Square Foot Coverage Per Product and Spray Technology

M.L. CAMPBELL WOOD FINISHING SYSTEMS

CLEAR TOPCOATS (POST-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Krystal	CONVENTIONAL	T100C	181
	HVLP	CP-FELCFM	357
	PRESSURE REDUCED	CPR / CAT-X Series	357
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	439
KlearVar	CONVENTIONAL	T100C	171
	HVLP	CP-FELCFM	337
	PRESSURE REDUCED	CPR / CAT-X Series	337
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	414
DuraVar	CONVENTIONAL	T100C	178
	HVLP	CP-FELCFM	350
	PRESSURE REDUCED	CPR / CAT-X Series	350
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	431
EnviroVar	CONVENTIONAL	T100C	167
	HVLP	CP-FELCFM	310
	PRESSURE REDUCED	CPR / CAT-X Series	310
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	405
High Performance Conversion Varnish	CONVENTIONAL	T100C	149
	HVLP	CP-FELCFM	294
	PRESSURE REDUCED	CPR / CAT-X Series	294
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	362

SEALER (POST-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Krystal Sealer	CONVENTIONAL	T100C	155
	HVLP	CP-FELCFM	305
	PRESSURE REDUCED	CPR / CAT-X Series	305
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	375
Level Sealer	CONVENTIONAL	T100C	206
	HVLP	CP-FELCFM	405
	PRESSURE REDUCED	CPR Series	405
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	499

CLEAR TOPCOATS (PRE-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
MagnaKlear	CONVENTIONAL	T100C	148
	HVLP	CP-FELCFM	291
	PRESSURE REDUCED	CPR / CAT-X Series	291
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	358
MagnaMax	CONVENTIONAL	T100C	135
	HVLP	CP-FELCFM	267
	PRESSURE REDUCED	CPR / CAT-X Series	267
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	328
High Performance WW Pre-Cat Clear	CONVENTIONAL	T100C	120
	HVLP	CP-FELCFM	237
	PRESSURE REDUCED	CPR / CAT-X Series	237
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	292

SEALER (PRE-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
MagnaSand Sealer	CONVENTIONAL	T100C	89
	HVLP	CP-FELCFM	175
	PRESSURE REDUCED	CPR / CAT-X Series	175
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	215

*** Coverage is 1 dry mil per gallon**

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Square Foot Coverage Per Product and Spray Technology

M.L. CAMPBELL WOOD FINISHING SYSTEMS

SEALER (VINYL)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Water White Vinyl Sealer	CONVENTIONAL	T100C	104
	HVLP	CP-FELCFM	204
	PRESSURE REDUCED	CPR / CAT-X Series	204
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	251
Quick Dry Vinyl Sealer	CONVENTIONAL	T100C	84
	HVLP	CP-FELCFM	156
	PRESSURE REDUCED	CPR / CAT-X Series	156
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	204

PIGMENTED TOPCOATS (POST-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Resistant	CONVENTIONAL	T100C	165
	HVLP	CP-FELCFM	325
	PRESSURE REDUCED	CPR / CAT-X Series	325
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	400
Stealth	CONVENTIONAL	T100C	184
	HVLP	CP-FELCFM	363
	PRESSURE REDUCED	CPR / CAT-X Series	363
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	447

PIGMENTED TOPCOATS (PRE-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
MagnaMax White / Opaque Base	CONVENTIONAL	T100C	151
	HVLP	CP-FELCFM	298
	PRESSURE REDUCED	CPR / CAT-X Series	298
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	367
High Performance Pre-Cat White	CONVENTIONAL	T100C	140
	HVLP	CP-FELCFM	276
	PRESSURE REDUCED	CPR / CAT-X Series	276
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	340

PRIMERS/UNDERCOATERS (POST-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Clawlock II	CONVENTIONAL	T100C	241
	HVLP	CP-FELCFM	475
	PRESSURE REDUCED	CPR / CAT-X Series	475
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	584
Level Primer	CONVENTIONAL	T100C	139
	HVLP	CP-FELCFM	274
	PRESSURE REDUCED	CPR / CAT-X Series	274
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	337

PRIMERS/UNDERCOATERS (PRE-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
MagnaClaw	CONVENTIONAL	T100C	177
	HVLP	CP-FELCFM	348
	PRESSURE REDUCED	CPR / CAT-X Series	348
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	428
Quick Dry Vinyl Primer	CONVENTIONAL	T100C	129
	HVLP	CP-FELCFM	239
	PRESSURE REDUCED	CPR / CAT-X Series	239
	HVLP AIR ASSIST AIRLESS	OC14 OR OB14	313

*** Coverage is 1 dry mil per gallon**

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Square Foot Coverage Per Product and Spray Technology

M.L. CAMPBELL WOOD FINISHING SYSTEMS

WATER BORNE PRODUCTS

CLEAR TOPCOATS (POST-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Aguatana 2k	CONVENTIONAL	L300C	172
	HVLP	CP-FELCFM	338
Water Borne Polyurethane	PRESSURE REDUCED	H2O CPR / CAT-X Series	338
	HVLP AIR ASSIST AIRLESS	H2O OC14 OR OB14	416

CLEAR TOPCOATS (PRE-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Agualente	CONVENTIONAL	L300C	165
	HVLP	CP-FELCFM	325
	PRESSURE REDUCED	H2O CPR / CAT-X Series	325
	HVLP AIR ASSIST AIRLESS	H2O OC14 OR OB14	400

SEALER

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
High Performance Water Borne Production Sealer	CONVENTIONAL	L300C	191
	HVLP	CP-FELCFM	376
	PRESSURE REDUCED	H2O CPR / CAT-X Series	376
	HVLP AIR ASSIST AIRLESS	H2O OC14 OR OB14	462
Agualente Sealer	CONVENTIONAL	L300C	172
	HVLP	CP-FELCFM	338
	PRESSURE REDUCED	H2O CPR / CAT-X Series	338
	HVLP AIR ASSIST AIRLESS	H2O OC14 OR OB14	416

CLEAR TOPCOATS (PRE-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Agualente White / Opaque Base	CONVENTIONAL	L300C	206
	HVLP	CP-FELCFM	406
	PRESSURE REDUCED	H2O CPR / CAT-X Series	406
	HVLP AIR ASSIST AIRLESS	H2O OC14 OR OB14	500

PRIMERS / UNDERCOATERS (PRE-CATALYZED)

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
Agualente Stain Blocking Primer	CONVENTIONAL	L300C	231
	HVLP	CP-FELCFM	455
	PRESSURE REDUCED	H2O CPR / CAT-X Series	455
	HVLP AIR ASSIST AIRLESS	H2O OC14 OR OB14	560

LACQUER

MATERIAL	SPRAY TECHNOLOGY	GUN	SQUARE FOOT COVERAGE PER GALLON
High Performance Water Borne Production Lacquer	CONVENTIONAL	L300C	175
	HVLP	CP-FELCFM	344
	PRESSURE REDUCED	H2O CPR / CAT-X Series	344
	HVLP AIR ASSIST AIRLESS	H2O OC14 OR OB14	423

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C.A.Technologies

Professional Spray Systems From CAT

H_2O

For All Your Waterborne Needs

H_2O Equipment Guide

Boulder - Colorado - USA

H2O-CPR

- *Stainless Steel Fluid Passages*
- *Patented 12 point atomization*
- *Includes 3 needle & nozzle sizes*
- *Includes HVLP and pressure reduced air caps*
- *Available with 3M PPS or aluminum pressure cup system*

H2O-CPR-GRAVITY

- *Stainless Steel Fluid Passages*
- *Patented 12 point atomization*
- *Includes 3 needle & nozzle sizes*
- *Includes HVLP and pressure reduced air caps*
- *Available with 3M PPS or aluminum gravity cup system*

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H2O-Air Assist Airless

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H2O AAA Outfits will include the following:

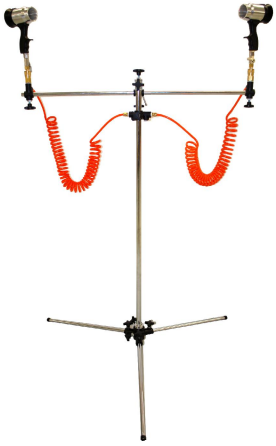
Pre-atomizing fine finish opti-tip (36-XXX-F)
60 Mesh gun handle filter
1/2" material pickup tube
3/16" fluid hose
Larger fluid passages

Pump Designation:

Bobcat Outfits:	***H2O-OB14-C5-12-XXX***
	H2O-OB14-W5-12-XXX
Cougar Outfits:	***H2O-OC14-C5-12-XXX***
	H2O-OC14-W5-12-XXX

(replace XXX with preferred tip size)

H2O-Air Blast Quick Dryer



H2O Air Blast Quick Dryer: Speeds drying time of waterborne coating while reducing micro bubbles.

54-540 Outfit: ***Includes 2 air blast guns, adjustable stand (height to 84", width to 34"). Variable air flow control with low CFM consumption (11.5 @ 50 psi) and high CFM output.***

54-541 Gun Only: ***Air Blast Guns can be hand held or mounted on stand.***

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H2O-CPR Outfits

H2O-CPR Outfits

The CPR pressure feed spray gun can be outfitted with any of our stainless steel pressure pots.

51-802 - 2.5 Gal
51-804 - 2.5 Gal w/ Air Agitation
51-852 - 5 Gal
51-854 - 5 Gal w/ Air Agitation
51-882 - 12.5 Gal
51-884 - 12.5 Gal w/ Air Agitation

The CPR gravity spray gun can be ordered with the standard 1QT. 3M PPS disposable cup system.

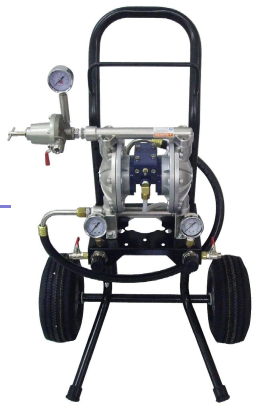
H2O-CPR-G
H2O-CPR-G-PPS

CPR pressure guns can also be fitted with our Bandit Pressure Cups.

51-600 2 Qt.
51-600A 2 Qt. w/ Air Agitation

Double Diaphragm Pump Cart Mounted

70-1102-5 (5 Gal Siphon)
70-1102-55 (55 Gal Siphon)



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Professional Spray Systems from CAT

Stick with CAT for all your Adhesive needs

BOULDER - COLORADO USA

Adhesive Systems From C.A. Technologies

Made in USA

C.A. Technologies superior spray systems for spraying adhesives are available with the ***P100G***. The Laminator is the ultimate spray gun designed specifically for glue/adhesive applications of all types. The gun comes standard with all stainless steel fluid passages. The body and air cap are teflon anodized for easy cleanup and longer life.

Solvent Based

Panther

P100G - 1.8 x 2266T

(Other Nozzle Sizes Available)

OP100G-504
5 Gallon Tank Outfit

OP100G-202
2.5 Gallon Tank Outfit

Water Based

Panther

P100G - 1.8 x 1590

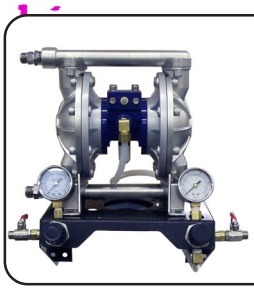
(Designed for waterbased adhesives)

OP100G-882
12.5 Gallon SS Tank Outfit

OP100G-852
5 Gallon SS Tank Outfit

C.A. Technologies double diaphragm pumps are the answer for spraying virtually any type of adhesives, including “sheer sensitive” products. They’re perfect for single, multi-hand gun and automatic spray systems. Available with optional fluid regulator (52-203) to provide pulse free operation and multi-gun setups. Stainless steel construction, teflon diaphragms and stainless steel balls and seats, these units are rated at 12 gallons per minute at maximum of 100 psi fluid pressure.

Double Diaphragm Pumps



70-1105-5
5 Gallon Wall Mount

70-1105-55
55 Gallon Wall Mount

70-1102-5
5 Gallon Cart Mount

70-1102-55
55 Gallon Cart Mount

70-1105
55 Gallon Drum Mount

C.A.Technologies

Wood Coating Solutions

Quality Finishing Equipment

Spray Guns Made in the USA

OB/OC14 AAA

Fine Finish Pump Outfit

- 14:1 ratio pump for production fine finish.
- All Stainless steel fluid section.
- Magnetic no stall air motor design.
- Soft spray pattern has minimal over spray and results in excellent transfer efficiency.
- Requires 6 CFM.

H2O-OB/OC14 AAA

Fine Finish Pump Outfit

- Water based units have a new cover to reduce confusion between solvent and water based units.
- H2O pumps come standard with larger fluid passages and our new opti-tip to help reduce micro bubbling.
- Requires 6 CFM.

C-20

20:1 AAA Unit

- Built for easy "field" repairs.
- All Stainless steel 20:1 ratio pump for higher viscosity materials.
- A durable and dependable pump for continuous operation at 2 GPM.
- Single or multiple gun applications - up to 8 guns with 0.013" tips.
- Requires 6 CFM.
- Please ask or refer to www.spraycat.com for part numbers and pricing.

CPR-FE

CAT Pressure Reduced

- The CPR is the lightweight version of the CPR spray gun series.
- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Requires 13.5 CFM with 23-1301.
- Requires 11 CFM with 23-2101.

CP-FELCFM
CP-FELCFM-303R2

Low CFM & High CFM

- The FELCFM is now offered in our CAT Packs.
- These CAT Packs include 3 needles/nozzles and 2 air caps.
- Having a low CFM and a High CFM air cap allows for more versatility in spray.
- Requires 6 CFM with 21-1090.
- Requires 13 CFM with 21-1094.

CAT-X Series

CAT-X Hybrid Technology

- The CAT-X provides extreme atomization.
- Extreme fluid delivery.
- HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Incorporates 4 needles/nozzles and 2 air caps.
- Available in 5 unique designs.
- Requires 13.5 CFM with 24-1411.
- Requires 11 CFM with 24-1352.

H2O-CPR Series

CAT Pressure Reduced

- The H2O-CPR Series spray guns are labeled to reduce confusion between solvent and water based units within the shop.
- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.
- Requires 13.5 CFM with 23-1301.
- Requires 11 CFM with 23-2101.

CPR-G

CAT Pressure Reduced

- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.
- The different nozzle sizes are ideal for spraying a wide range of materials.
- Requires 13.5 CFM with 23-1301.
- Requires 11 CFM with 23-2101.

CPR

CAT Pressure Reduced

- The CPR is an all stainless steel pressure feed spray gun.
- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.
- Requires 13.5 CFM with 23-1301.
- Requires 11 CFM with 23-2101.

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Phone: 888.820.4498, Fax: 303.438.5708
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TJR Glaze

Techline JR. HVLP (Glaze)

- The TJR is an economically priced gravity feed mini gun.
- This TJR-Glaze kit comes with 3 different needle/ nozzle combinations.
- These different combinations can be used in a wide range of coatings and is great for all your touch up needs.
- Requires 4 CFM.

Tomcat / Tomahawk

General Purpose

- The Tomcat/Tomahawk are general purpose conventional air spray guns.
- Rugged and designed for production use, these spray guns are perfect for all coatings thick and thin.

CP-J100H

Low CFM Gravity

- The CP-J100H is ideal for portability and use with a small compressor.
- All stainless steel fluid passages.
- Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.
- Requires 6 CFM with 21-1090.
- Requires 10 CFM with 21-1093.

Premier Respirators

- High quality silicone masks includes a soft sealing flange with foiled edges for increased comfort.
- Incoporates a perspiration port to reduce mask slippage and skin irritation.
- Respirators are available in small, med and large.

91-2231

Respirator Cartridges
(4 Pack)
91-2220-4

Filters / Coalescers

- We offer a complete line of air filters, coalescers and dryers to remove water, oil and particles in your line.

52-533 - Dessicant filter
52-534 - Desiccant filter with 1 regulator.

Quick Disconnect Couplings

High Flow

53-575

53-576

53-577

53-578

AAA Tip Cleaning Needles

91-215 (12 Pack)

Panther P100G

"The Laminator"

- The P100G is CAT's premier air spray gun for glue/adhesive applications.
- The gun body/air cap are teflon anodized for easy clean up.
- Its rugged construction, stainless steel fluid passages and self adjusting needle packing are just a few examples of why this spray gun is deemed "The Laminator".

Pressure Cups & Tanks

2QT Bandit

51-600

2.5 Gallon Tank

51-202

Disposable Ridged Liners

- Semi ridged liners for the 51-600 Bandit 2qt cup.
  Part Number: 51-637-12 (12 pack)
- Semi ridged liners for the 51-200 series 2.5 gal tank.
  Part Number: 51-261-12 (12 pack)
  51-261-60 (60 pack)

5 Gallon and 55 Gallon Mixers

Pail Mixers

- CAT offers 5 gallon and 55 gallon mixers which are all stainless steel with stainless steel agitator assemblies. 5 gallon mixers will fit 5 gallon pails.

Gun Cleaning Kits

10-500

6	Picks on Ring	1	Round Lg. Bristle Brush
1	Detail Brush	1	Gun Brush
3	Round Bristle	5	Small Round Brushes
1	Pick		

3M™ PPS™

Paint Preparation System

- Includes (1) cup and collar, (1) adapter and a 10 pack of lids and liners.

1qt PPS Starter Cup System

91-481

Mini PPS (6 oz) Starter Pressure Cup

91-488

1qt PPS Starter Pressure Cup

91-483

Lids and Liners

- 91-462 - Lids and liners for 950 mL (25 per kit)
- 91-471 - Lids and liners for 6 oz cup (50 per kit)
- 91-466 - Lids and liners for 650 mL (50 per kit)

C.A.Technologies

Industrial Coating Solutions

Quality Finishing Equipment

Spray Guns Made in the USA

OB/OC14 AAA

Fine Finish Pump Outfit

- 14:1 ratio pump for production fine finish.
- All Stainless steel fluid section.
- Magnetic no stall air motor design.
- Soft spray pattern has minimal over spray and results in excellent transfer efficiency.
- Requires 6 CFM.

C-20

20:1 AAA Unit

- Built for easy "field" repairs.
- All Stainless steel 20:1 ratio pump for higher viscosity materials.
- A durable and dependable pump for continuous operation at 2 GPM.
- Single or multiple gun applications - up to 8 guns with 0.013" tips.
- Requires 6 CFM.
- Please ask or refer to www.spraycat.com for part numbers and pricing.

LYNX L300C

Conventional Fine Finish

- Economical general purpose spray gun.
- Made to spray a wide range of coatings.
- Available in a Smart Pack:
  Smart Pack includes 3 needle/nozzles and 2 air caps.

CP-FELCFM
CP-FELCFM-303R2

Low CFM & High CFM

- The FELCFM is now offered in our CAT Packs.
- These CAT Packs include 3 needles/nozzles and 2 air caps.
- Having a low CFM and a High CFM air cap allows for more versatility in spray.
- Requires 6 CFM with 21-1090.
- Requires 13 CFM with 21-1094.

CAT-X Series

CAT-X Hybrid Technology

- The CAT-X provides extreme atomization.
- Extreme fluid delivery.
- HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Incorporates 4 needles/nozzles and 2 air caps.
- Available in 5 unique designs.
- Requires 13.5 CFM with 24-1411.
- Requires 11 CFM with 24-1352.

CPR-G

CAT Pressure Reduced

- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.
- The different nozzle sizes are ideal for spraying a wide range of materials.
- Requires 13.5 CFM with 23-1301.
- Requires 11 CFM with 23-2101.

CPR

CAT Pressure Reduced

- The CPR is an all stainless steel pressure feed spray gun.
- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.
- Requires 13.5 CFM with 23-1301.
- Requires 11 CFM with 23-2101.

CPR-FE

CAT Pressure Reduced

- The CPR is the lightweight version of the CPR spray gun series.
- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Requires 13.5 CFM with 23-1301.
- Requires 11 CFM with 23-2101.

Coating Atomization Technologies: 337 S. Arthur Ave. Louisville, CO 80027
Phone: 888.820.4498, Fax: 303.438.5708
www.spraycat.com

Economy

TJR

Techline JR. HVLP

- Great for all your touch up needs.
- Economically priced for use with a wide range of coatings.
- Available with aluminum or 3M™ PPS™ cups.

TJR
&
TJR-PPS

Tomcat / Tomahawk

General Purpose

- The Tomcat/Tomahawk are general purpose conventional air spray guns.
- Rugged and designed for production use, these spray guns are perfect for all coatings thick and thin.

Techline T3

Techline T3 HVLP

- This HVLP spray gun includes the C.A.T. fine finish series nozzles.
- Fine finish results at an economical price.

CPR-T3

CAT Pressure Reduced

- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Economy version of compliant spray technology.

Desiccant Dryint Filter

Mini Desiccant Dryer

52-533 - Mini Desiccant Dryer

52-534 - Mini Desiccant Dryer with one regulator and ball valve for single gun operation.

51-130

2 Quart Economy Cup

- Lightweight aluminum construction.
- Flow through regulator with precise pressure adjustments.
- Economically priced.
- Rugged construction.
- Pressure relief valve.

Low CFM

TJR Glaze

Techline JR. HVLP (Glaze)

- The TJR is an economically priced gravity feed mini gun.
- This TJR-Glaze kit comes with 3 different needle/nozzle combinations.
- These different combinations can be used in a wide range of coatings and is great for all your touch up needs.
- Requires 4 CFM.

CP-J100H

Low CFM Gravity

- The CP-J100H is ideal for portability and use with a small compressor.
- All stainless steel fluid passages.
- Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.
- Requires 6 CFM with 21-1090.
- Requires 10 CFM with 21-1093.

CP-FELCFM
CP-FELCFM-303R2

Low CFM & High CFM

- The FELCFM is now offered in our CAT Packs.
- These CAT Packs include 3 needles/nozzles and 2 air caps.
- Having a low CFM and a High CFM air cap allows for more versatility in spray.
- Requires 6 CFM with 21-1090.
- Requires 13 CFM with 21-1094.

Pressure Cups and Tanks

Pressure Cups & Tanks

- Pressure cups and tanks available in 2 quart up to 15 gallon sizes.

51-600
Bandit

51-202
(2.5 Gallon)

51-214
2.5 Gallon
Bottom Outlet

51-637-12
Bandit Semi Rigid Liners

51-261-12 (12 Pack)
51-261-60 (60 Pack)
2.5 Gallon Semi Rigid Liners

C.A.Technologies

Automotive Coating Solutions

Quality Finishing Equipment

Spray Guns Made in the USA

CAT-X Series - Hybrid Technology

CAT X

- *The CAT-X provides extreme atomization.*
- *Extreme fluid delivery.*
- *HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.*
- *Incorporates 4 needles/nozzles and 2 air caps.*
- *Available in 5 unique designs.*
- *Requires 13.5 CFM with 24-1411.*
- *Requires 11 CFM with 24-1352.*

CPR Gravity - CAT Pressure Reduced

- *Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.*
- *Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.*
- *The different nozzle sizes are ideal for spraying a wide range of materials.*
- *Requires 13.5 CFM with 23-1301.*
- *Requires 11 CFM with 23-2101.*

CPR-G-A

CPR-G-A-PPS

CP-JSLP - JSLP HVLP Fine Finish

- *Designed for automotive finishing.*
- *3 different nozzle and needle sizes to spray any type of automotive coating.*
- *All stainless steel fluid passages.*
- *Available with a 1 quart aluminum cup or the popular 3M™ PPS™ system for multi-axis spraying.*

CP-JSLP-A

CP-JSLP-A-PPS

CP-J100H - Jaguar HVLP Low CFM

- *The CP-J100H is ideal for portability and use with a small compressor.*
- *All stainless steel fluid passages.*
- *Comes in a kit which incorporates 3 needles/nozzles and 2 air caps.*
- *Requires 6 CFM with 21-1090.*
- *Requires 10 CFM with 21-1093.*

CP-J100H-A

CP-J100H-A-PPS

Coating Atomization Technologies: 337 S. Arthur Ave. Louisville, CO 80027
Phone: 888.820.4498, Fax: 303.438.5708
www.spraycat.com

Economy

Techline T3

- This HVLP spray gun includes the C.A.T. fine finish series nozzles.
- Fine finish results at an economical price.

CPR-T3

- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Economy version of compliant spray technology.

Dessicant Drying Filter

52-533 - Mini Desiccant Dryer
52-534 - Mini Desiccant Dryer with one regulator and ball valve for single gun operation.

Accessories

Gun Cleaning Kits

10-500 (Standard)

6	Picks on Ring		
1	Detail Brush	1	Round Lg. Bristle Brush
3	Round Bristle	1	Gun Brush
1	Pick	5	Small Round Brushes

10-501 (Deluxe)

3	Round Bristle Brushes	4	Small Round Brushes
1	Round Wire Brush	5	Needle Picks
1	Tube of Gun Lube	3	Detail Brush/Handles
1	Large Gun Brush	2	Metal Handles

High Flow QD Couplings

53-575

53-576

53-577

53-578

Low CFM

TJR. - Techline JR. (Deluxe)

- Designed to give finishers the best of both worlds.
- Includes a round air cap designed for specialty applications.
- Available with aluminum or 3M™ PPS™ cups.

TJR Deluxe
&
TJR Deluxe PPS

CP-FELCFM-303-R2

- Includes 2 air caps with 3 needle and nozzle setups.
- Ideal for use with a small compressor.
- Lightweight low CFM spray gun.

CP-FELCFM-303-R2
CP-FELCFM-PPS-R2

CP-J100H-A

- The CP-J100H is ideal for portability and use with a small compressor.
- All stainless steel fluid passages.
- Comes in a kit which incorporates 3 needles/ nozzles and 2 air caps.

CP-J100H-A
CP-J100H-A-PPS

CAT Pressure Reduced

CPR-PPS-R2

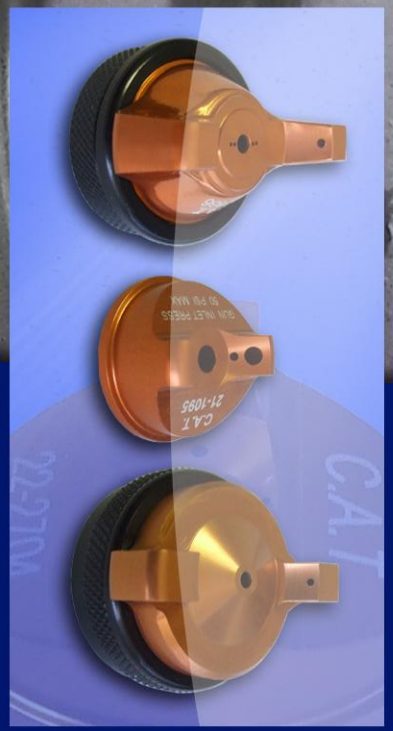
- All stainless steel pressure feed spray gun.
- Combines HVLP transfer efficiency with the finish quality and speed of a conventional spray gun.
- Includes 2 air caps with 3 needle and nozzle setups.

CPR-303-R2

CPR-PPS-R2

IMPROVEMENT™

1. An increase or advancement in worth, learning, skill, or other excellence.
2. A valuable addition; excellence added or a change for the better.



Improvement™ Line
Parts for Binks and
DeVilbiss Spray Guns

C.A.Technologies

HVLP

Improvement™ line for BINKS® Spray Guns — BINKS® HVLP

Air Caps

Replaces Binks Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
90P	21-1090	6	10	All HVLP fluid nozzles are compatible with HVLP air caps. Actual fluid nozzle air cap combinations will be determined by application.
91P	21-1091	8	11	
92P	21-1092	8	11	
93P	21-1093	10	12	
94P	21-1094	13	15	
95P	21-1095	20	12	
95PT*	21-1095T	20	12	
97P	21-1097	20	13	
95AP	21-1195	20	13	
97AP	21-1197	20	14	
54-3531 Retaining Ring	21-1001			

***Teflon Coated**

Fluid Nozzles — Compatible Fluid Needles

Replaces Binks Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	Mach1		M1-G, SL, FL		Mach 1A (Auto)	
					Binks	CAT	Binks	CAT	Binks	CAT
89	31-1105	31-1205	31-0205	0.5 mm (.020")						
90	31-1108	31-1208	31-0208	0.8 mm (.022")						
91	31-1110	31-1210	31-0210	1.0 mm (.040")						
92	31-1112	31-1212	31-0212	1.2 mm (.046")	54-3940 (Nylon Tip)	41-1102N	54-4381 (Nylon Tip)	41-1202N	47-472 (Nylon Tip)	41-1000N
93	31-1113	31-1213	31-0213	1.3 mm (.052")						
94	31-1114	31-1214	31-0214	1.4 mm (.055")	54-3941	41-1101	54-4382	41-1201	47-478 (ABSS)	41-1000
95	31-1115	31-1215	31-0215	1.5 mm (.059")						
96	31-1116	31-1216	31-0216	1.6 mm (.063")						
97	31-1117	31-1217	31-0217	1.7 mm (.070")						

Feathering Fluid Nozzles — Compatible Fluid Needles

Replaces Binks Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	Mach1		M1-G, SL, FL	
					Binks	CAT	Binks	CAT
92F	31-1312	31-1412	31-0412	1.2 mm (.046")	54-4024	41-1112	54-4389	41-1212
94F	31-1314	31-1414	31-0414	1.4 mm (.055")	54-4026	41-1114	54-4390	41-1214
97F	31-1317	31-1417	31-0417	1.7 mm (.070")	54-4029	41-1117	54-4391	41-1217

Repair Kits

Improvement™ line Repair Kits for BINKS® Spray Guns — BINKS® Repair Kits

	Complete Gun Rebuild		Needle Packing		Air Valve	
Binks Gun Model	Replaces Binks Repair Kit #	CAT Part #	Replaces Binks Repair Kit #	CAT Part #	Replaces Binks Repair Kit #	CAT Part #
Mach 1	54-3605	11-1104	54-4261	11-1100	N/A	11-1103
95 Gun	54-3577		54-4225		54-4226	
Mach 1 SL & FL	54-4278	11-1105	54-4370	61-1026	N/A	
M1-G	54-4367					
95G guns	54-3589				54-4226	
Mach 1A, 95A	54-3980	11-1106	54-4261	11-1100	N/A	
2001 Gun	6-229	11-1107	6-231	11-1102		

Conventional

Improvement™ line for BINKS® Spray Guns — BINKS® Conventional

Air Caps

Replaces Binks Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
63P	21-2163	8	8	31-2106 thru 31-2113, 31-2206 thru 31-2213
63PB	21-2263	14	14	
63PE	21-2263-E	15	13	
63PH-1-20	21-2363	13.6	14	
66S	21-2166	5	9	31-2106 thru 31-2117, 31-2206 thru 31-2217
66SD	21-2266	12	10	
66SD-3	21-2266-3	16.2	15	
66SH	21-2366	12	12	
66SK	21-2466	15	13	
67PB	21-2167	14.5	12	31-2117, 31-2122, 31-2217 thru 31-2222
67PD	21-2267	15	15	
68PB	21-2168	14	12	31-2128, 31-2228
200	21-200*	5.2	12	*Requires 21-1584 Ring and 21-1583 Base (*order separately*)
262	21-2262*	11	6	Requires 21-205 Retaining Ring
R3	21-223	3 @ 30 PSI	10	

Improvement™ line for BINKS® Spray Guns — BINKS® Conventional

Conventional

Fluid Nozzles / Compatible Fluid Needles

Replaces Binks Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	2001®		95		18		95A (Auto)	
					Binks	CAT	Binks	CAT	Binks	CAT	Binks	CAT
62 SS	31-2106	31-2206	31-0606	0.6 mm (.022")	563	41-2507	663	41-2607	63	41-2707	763	41-0607
63 SS	31-2107	31-2207	31-0607	0.7 mm (.028")								
63A SS	31-2110	31-2210	31-0610	1.0 mm (.040")	563A	41-2510	663A	41-2610	63A	41-2710	763A	41-0610
63B SS	31-2112	31-2212	31-0612	1.2 mm (.046")								
63C SS	31-2113	31-2213	31-0613	1.3 mm (.052")								
65 SS	31-2115	31-2215	31-0615	1.5 mm (.059")	565	41-2515	665	41-2615	65	41-2715	765	41-0615
66 SS	31-2118	31-2218	31-0618	1.8 mm (.070")								
67 SS	31-2122*	31-2222	31-0622	2.2 mm (.086")	567	41-2522	667	41-2622	67	41-2722	767	41-0622
68 SS	31-2128*	31-2228	31-0628	2.8 mm (.110")	568	41-2528	668	41-2628	68	41-2728	768	41-0628
66VT	N/A	31-2218V**	31-0618V**	1.8 mm (.070")	563VT	41-6518**	666VT	41-6618**	66VT	41-6713	766VT	41-5613**
67VT	N/A	31-2222V**	31-0622V**	2.2 mm (.086")	567VT	41-6522**	667VT	41-6622**	67VT	41-6722	767VT	41-5622**
68VT	N/A	31-2228V**	31-0628V**	2.8 mm (.110")	568VT	41-6528**	668VT	41-6628**	68VT	41-6728	768VT	41-5628**
57SS	31-2157	N/A	N/A	5.54 mm (.218")	41-2900 Replaces Binks 54-1209 Needle							
59CSS	31-2171	N/A	N/A	7.14 mm (.281")	41-2471 Replaces Binks 259 Needle							

Note: Actual fluid nozzle and air cap combinations are determined by application.

**For Zinc order 31-2122Z or 31-2128Z*

***For abrasive materials*

****Replace tip installation socket 3/8 x 1/4 drive P/N 98-0104*

Improvement™ line for DeVilbiss® Spray Guns — DeVilbiss® HVLP

HVLP

Air Caps

Replaces DeVilbiss Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
28 HVLP	22-1028**	18	11	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
33 HVLP	22-1033**	18	9	
46MP HVLP	22-1046	22	11	32-1111 thru 32-1118, 32-1211 thru 32-1218
83MP HVLP	22-1083	22	13	32-1118, 32-1122, 32-1218, 32-1222
100 GTI HVLP	22-1100	20	12	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
2000 GTI HVLP	22-2004**	15.5	10	
MCB 368 Retaining Ring	22-1001			

***Available while supplies last*

Fluid Nozzles / Compatible Fluid Needles

Replaces DeVilbiss Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	JGHV		AGXV	
					DeVilbiss	CAT	DeVilbiss	CAT
AV-2120-FX	32-1111	32-1211	32-0211	1.1 mm (.042")	JGA-421-FX	42-1311	AGX-440-FX	42-1511
AV-2120-FF	32-1114	32-1214	32-0214	1.4 mm (.055")	JGA-421-FF	42-1314	AGX-440-FF	42-1514
AV-2120-E	32-1118**	32-1218	32-0218	1.8 mm (.070")	JGA-421-E	42-1318		
AV-2120-D	32-1122	32-1222	32-0222	2.2 mm (.086")	JGA-421-DEX	42-1322		

***Available while supplies last*

Improvement™ line for DeVilbiss® Spray Guns — DeVilbiss® Conventional

Conventional

Air Caps

Replaces DeVilbiss Air Cap #	CAT Air Cap #	Approx. CFM	Approx. Pattern Width	Compatible Fluid Nozzles
58	22-2058	6	9	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
62HD*	22-2062	19	8	
64HD*	22-2064	22	14	
80	22-2080	14	13	
704	22-2704	21	11	
777	22-2777**	23	13	
797	22-2797	21	17	
880	22-2880	15	12	32-2122; 32-2222
9000	22-2900	12	10	32-2111 thru 32-2118, 32-2318, 32-2211 thru 32-2218, 32-2418
MBC 368 Retaining Ring	22-1001			

**Available with teflon coating 22-2062T - 22-2064T*

***Available while supplies last*

Fluid Nozzles / Compatible Fluid Needles

Replaces DeVilbiss Fluid Nozzle #	CAT Standard Fluid Nozzle (1 Piece Nozzle)	CAT Replaceable Tip Fluid Nozzle (2 Piece Nozzle)	Replacement Tip Only	Orifice Diameter	JGA		AGX & MBC	
					DeVilbiss	CAT	DeVilbiss	CAT
AV-650-FX	32-2111	32-2211	32-0611	1.1 mm (.042")	JGA-421-FX	42-1311	AGX-440-FX	42-1511
AV-650-FF	32-2114	32-2214	32-0614	1.4 mm (.055")	JGA-421-FF	42-1314	AGX-440-FF	42-1514
AV-650-E	32-2118(Z)*	32-2218	32-0618	1.8 mm (.070")	JGA-421-E	42-1318	MBC-444-E	42-1418
AV-650-EX	32-2318	32-2418	32-0818	1.8 mm (.070")	JGA-421-DEX	42-1322	MBC-496-DEX	42-1422
AV-650-D	32-2122(Z)*	32-2222	32-0622	2.2 mm (.086")				
AV-650-C	32-2128(Z)*	N/A	N/A	2.8 mm (.110")	JGA-421-C	42-1328	MBC-496-C	42-1428

**For Zinc, uses delrin tip specify (Z)*

Why only replace when you can improve?

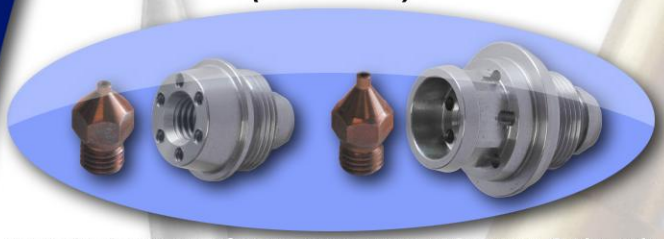
The IMPROVEMENT™ line of spray gun replacement parts from C.A.Technologies offers more value than just replacement parts. Many parts have been re-engineered to add features that will benefit the user, such as lighter weight air caps, hardened fluid nozzles, and replaceable fluid orifices. As professionals with over a half century of combined experience in the design and manufacture of spray finishing equipment, C.A.Technologies uses their knowledge and expertise to produce high quality, innovative products for the coating application industry.

C.A.Technologies

Coating Atomization Technologies
A Colorado limited liability company

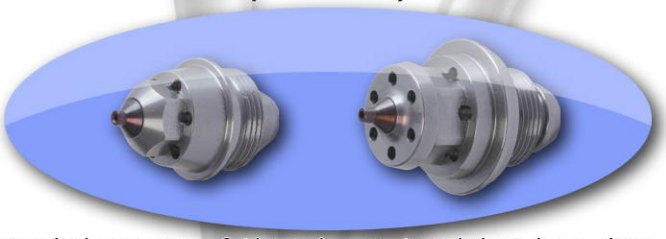
337 South Arthur Avenue
Louisville, Colorado 80027
Phone: 1.888.820.4498
Fax: 1.303.438.5708
www.spraycat.com

Fluid Nozzles
(Two Piece)



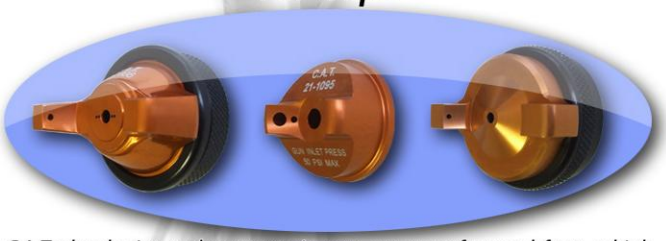
C.A.Technologies manufactures a two piece replacement fluid nozzle which enables the user to replace the fluid orifice/needle seat separately for considerably less cost. Fluid orifices are made of hardened 17-4PH stainless steel for long wear. Two piece fluid nozzles are otherwise interchangeable with standard nozzles.

Fluid Nozzles
(One Piece)



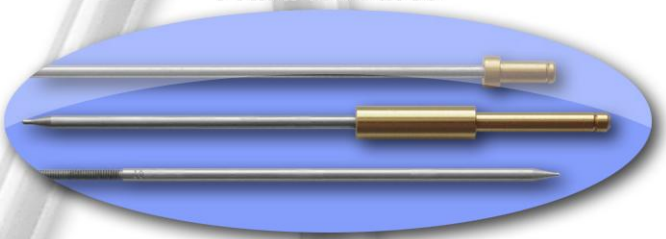
Standard one piece fluid nozzles are intended to be a direct replacement/improvement for Binks and DeVilbiss fluid nozzles. The one piece design is actually a two part fabrication with the body made of 300 series stainless steel and the fluid orifice/needle seat made of hardened 17-4PH stainless steel to increase wear life.

Air Caps



C.A.Technologies replacement air caps are manufactured from a high strength aluminum alloy rather than brass to reduce weight without sacrificing durability. Each air cap is individually tested and guaranteed to produce the same quality atomization and spray pattern as the OEM air caps.

Fluid Needles



Replacement needles are made of 300 series stainless steel and precision manufactured to a micro-smooth finish on the tip and packing wear areas to insure proper sealing and maximize packing life.

Repair Kits

C.A.Technologies also offers spray gun repair kits of the highest quality and durability.

C.A.Technologies

L200C

CONCRETE SPRAY

The L200C is a general purpose conventional air spray gun designed for spraying concrete applications. The body is forged aluminum built with all stainless steel fluid passages. This spray gun comes standard with a heavy duty needle return spring, 2.8 mm fluid nozzle, and a 22-2062 air cap enabling it to spray the wide variety of the high viscosity materials on the market. The L200C can be outfitted with our 2.5 gallon or 5 gallon pressure tanks. With the 5 gallon outfits, a 5 gallon pail can be placed directly into the pressure pot. Outfitted with this spray system you can be confident that all your resurfacing, restoration, and protection needs will be achieved.

FEATURES

- DESIGNED FOR CONCRETE SPRAY
- FORGED ALUMINUM BODY
- STAINLESS STEEL FLUID PASSAGE
- MADE IN THE USA
- HARDENED FLUID NOZZLE FOR LONGER LASTING WEAR

10-500
Repair Kit

Coating Atomization Technologies: 337 S. Arthur Ave. Louisville, CO 80027
Phone: 888.820.4498, Fax: 303.438.5708
www.spraycat.com

C.A.Technologies

US MADE

Black CAT

Portable HVLP Spray System

Black CAT System Features

- 2 HP Compressor.
- 4.6 Gallon twin tanks.
- 7 CFM @ 40 PSI.
- 2.5 Gallon pressure tank (80 PSI).
- Fluid and air adjustments.
- Outfits available with our Lynx 100H and 25' fluid/air hoses.

THE BLACK CAT WILL MAINTAIN A CONSTANT 10 PSI OR GREATER AT THE AIR CAP

THIS IS THE BEST HVLP CART UNIT AVAILABLE AND AT A GREAT PRICE

This self contained HVLP system from C.A.Technologies will provide you with the portable means for spraying out in the field. Included is a 2 HP compressor with 4.6 gallon twin tanks that will maintain a constant 10 PSI or greater, perfect for combination with the L100H.

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Black CAT System

Includes:

Lynx L100H HVLP

- Stainless Steel Fluid Passages
- Aluminum Forged Body
- Patented 2 Piece Fluid Nozzle
- Fine Finish Air Cap
- HVLP Transfer Efficiency

51-202 Pressure Tank

- 2.5 Gallon
- 80 PSI Tank Pressure
- Plastic Rigid Liner
- Baked on Enamel Coating

53-112-25

53-213-25

- 2 HP Compressor
- 7 CFM @ 40 PSI
- 4.6 Gallon Twin Tanks
- Heavy Duty Cart Assembly

Black CAT ACCESSORIES

2.5 Gallon Rigid Liners
51-261-12 (12 Pack)
51-261-60 (60 Pack)

Multi Color Touch Up Gun
L100CM

Multicolor Production Gun
L100C W/ 21-200

Mini Touch Up Guns
TJR
TJR Deluxe
TJR Glaze

Mini Gun Regulator
52-300

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C.A.Technologies

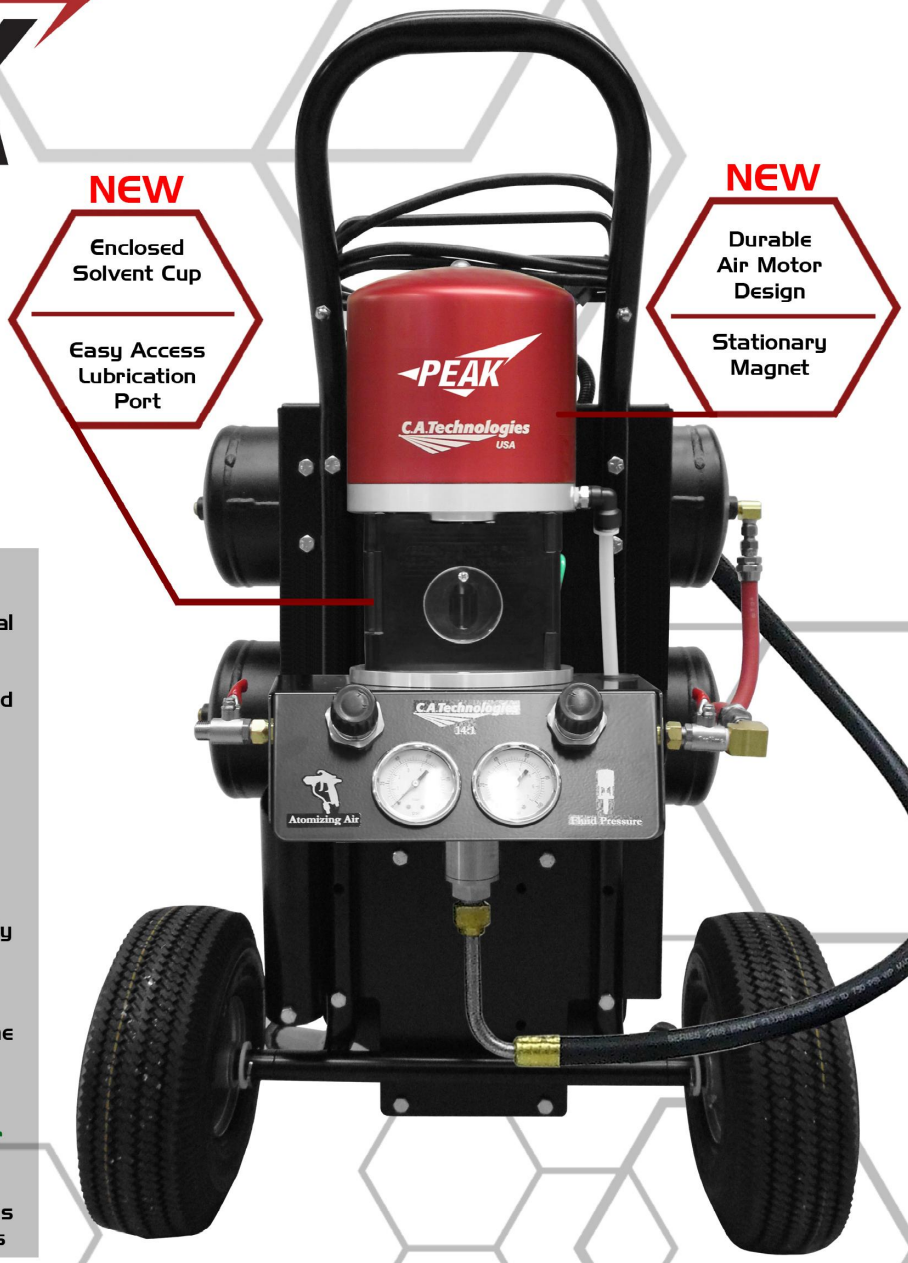
US MADE

14:1 AAA PC

14:1 Air Assisted Airless Portable Cart Unit

PEAK

"C.A.Technologies New Model 14:1 Pump is Innovation at its Peak"



Peak Performance Series

- New Stationary Magnet Design
- New Enclosed Solvent Cup Eliminates Environmental Contamination
- New Sight Gauges Make for Ease of Checking and Refilling Lubricant Levels
- 2 HP Compressor
- 4.6 Gallon Twin Tanks
- 7 CFM @ 40 PSI
- Ultra Fine Atomization for Ultimate Finish Quality
- Extremely High Transfer Efficiency
- High Volume Fluid Delivery Cuts Production Time in Half
- Low 6 CFM Consumption
  - Low CFM Usage Reduces Compressor Wear and Helps with Energy Savings
- All Stainless Steel Fluid Passages Makes This Unit Ideal for Solvent & Water Based Coatings

C.A.Technologies
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Louisville, CO 80027

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Fax: 303-438-5708
www.spraycat.com.

14:1 Air Assisted Airless Portable Cart Unit

C.A.Technologies

US MADE

AAA Outfits

14:1 Air Assisted Airless Fine Finish Outfits

Cougar
Air Assisted Airless Spray Gun (Full Size)

Bobcat
Air Assisted Airless Spray Gun (Light Weight)

53-402A
3/16" AAA 25' Hose Set (Blue)
Includes Protective Hose Sleeve
(Available in 15', 25' & 50' Sets)

53-404A
1/8" AAA 25' Hose Set (Yellow)
Includes Protective Hose Sleeve
(Available in 15', 25' & 35' Sets)

OCI4-W5
5 Gallon Wall Mount

OCI4-W55
55 Gallon Wall Mount

OBI4-W5
5 Gallon Wall Mount

OBI4-W55
55 Gallon Wall Mount

OCI4-C5-F
OBI4-C5-F
Cover Mount w/ Standard Fluid Filter Assembly

OCI4-C5-FSS
OBI4-C5-FSS
Cover Mount w/ Stainless Steel Fluid Filter Assembly

OCI4-400
5 Gallon Cover Mount

OCI4-400A
Agitated 5 Gallon Cover Mount

OBI4-400
5 Gallon Cover Mount

OBI4-400A
Agitated 5 Gallon Cover Mount

OCI4-C5
5 Gallon Cart Mount

OCI4-C55
55 Gallon Cart Mount

OBI4-C5
5 Gallon Cart Mount

OBI4-C55
55 Gallon Cart Mount

Portable Air Assisted Airless Unit

C.A.Technologies Cougar and Bobcat spray outfit is now available as a self contained portable unit with 2 HP compressor, 4.6 gallon air tanks and the 14:1 AAA pump all packed nicely on a sleek compact cart making it the most effective tool for any job any place.

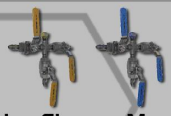
- 2HP Compressor with a Compact and Quiet Design
- 4.6 Gallon Air Tank (Twin 2.3 Gallon) provides plenty of atomizing air
- 7 CFM @ 40 PSI
- Bobcat/Cougar Air Assisted Airless Gun
- Stainless Steel Fluid Passages
- 14:1 Ratio Stainless Steel Pump
- No Stall Air Motor Design
- 100% US Made

OBI4-PC & OCI4-PC
"Bringing portability to the market of fine finishing"

74-136 V-Packing Kit

Available for every AAA pump unit, these V-Packings adjustable on the upper fluid section to ensure a proper 360° seal when needed.

14:1 AAA Accessories



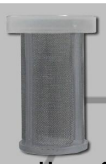
Color Change Manifold
70-260 (3/8" Brass)
70-26055 (3/8" SS)
70-26655 (1/2" SS)

Tip Cleaning Needles
91-215

High Pressure Swivel
53-544

Throat Seal Lubricant
91-36

Inline Filter Element
66-124 (60 Mesh)
66-125 (100 Mesh)



Siphon Hose Filter Assy (Economy)
74-561 (3/8")
74-562 (1/2")

Siphon Hose Filter Assy (Premium)
74-510 (3/8")
74-511 (1/2")

Siphon Hose Assy
74-520 (1/2" 5 Gal)
74-524 (1/2" 55 Gal)
74-530 (3/4" 5 Gal)
74-531 (3/4" 55 Gal)
74-538 (3/8" 5 Gal)

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14:1 Air Assisted Airless Outfits and Accessories

C.A.Technologies

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AAA Tip Chart

Replace Your Kremlin™ Tips at an Economical Price

C.A.Technologies offers a variety of Air Assisted Airless tips to match any users materials and needs for the spray gun industry. All C.A.Technologies Air Assist Airless tips can fit into any Air Assisted Airless Kremlin™ model spray gun.

AAA Tips

Feature

- Quality Price and Performance
- C.A.T. Air Assist Airless Tips Can Replace Any Kremlin™ Tip
- Variety of Tip Sizes For All Fine Finish Coatings

98-8007
Tip O-Ring

36-100-10
Tip Screen

**Remove Tip Ring to Replace in Kremlin™ AAA Spray Gun*

Accessories

53-591
- 1/4" NPT Female to #5 JIC Male
- Connects Cougar or Bobcat Spray Gun to Kremlin™ Air Assist Airless Fluid Hose

53-592
- #5 JIC Female to 1/4" NPS Male
- Connects CAT Fluid Hose to Kremlin™ Air Assist Airless Spray Gun and/or Pump

53-591
1/4" NPS Female
to #5 JIC Male

53-592
#5 JIC Female
to 1/4" NPS Male

Use for the following combinations:

Spray Gun	Fluid Hose	Pump	QTY 53-591	QTY 53-592
C.A.Technologies	Kremlin™	Kremlin™	(1) 53-591	
C.A.Technologies	Kremlin™	C.A.Technologies	(2) 53-591	
C.A.Technologies	C.A.Technologies	Kremlin™		(1) 53-592
Kremlin™	Kremlin™	C.A.Technologies	(1) 53-591	
Kremlin™	C.A.Technologies	C.A.Technologies		(1) 53-592
Kremlin™	C.A.Technologies	Kremlin™		(2) 53-592

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C.A.Technologies

US MADE

C.A.Technologies - Kremlin™ Conversion Chart

C.A.T. Part #	Description	Kremlin™ Part #	Spray Angle (degrees)	Pattern Width (inches)	Orifice Size
36-207	AA TIP ASSY - 207	03-03	20	4	0.007
36-407	AA TIP ASSY - 407	03-07	50	8	0.007
36-309	AA TIP ASSY. - 309	04-05	30	6	0.009
36-409	AA TIP ASSY. - 409	04-07	40	8	0.009
36-509	AA TIP ASSY. - 509	04-11	50	10	0.009
36-709	AA TIP ASSY. - 709	04-13	70	14	0.009
36-211	AA TIP ASSY. - 211	06-03	20	4	0.011
36-311	AA TIP ASSY. - 311	06-05	30	6	0.011
36-411	AA TIP ASSY. - 411	06-07	40	8	0.011
36-511	AA TIP ASSY. - 511	06-11	50	10	0.011
36-611	AA TIP ASSY. - 611	06-13	60	12	0.011
36-711	AA TIP ASSY. - 711	06-15	70	14	0.011
36-213	AA TIP ASSY. - 213	09-03	20	4	0.013
36-313	AA TIP ASSY. - 313	09-05	30	6	0.013
36-413	AA TIP ASSY. - 413	09-09	40	8	0.013
36-513	AA TIP ASSY. - 513	09-11	50	10	0.013
36-613	AA TIP ASSY. - 613	09-13	60	12	0.013
36-713	AA TIP ASSY. - 713	09-15	70	14	0.013
36-315	AA TIP ASSY. - 315	12-05	30	6	0.015
36-415	AA TIP ASSY. - 415	12-07	40	8	0.015
36-515	AA TIP ASSY. - 515	12-11	50	10	0.015
36-615	AA TIP ASSY. - 615	12-13	60	12	0.015
36-715	AA TIP ASSY. - 715	12-15	70	14	0.015
36-815	AA TIP ASSY. - 815	12-17	80	16	0.015
36-317	AA TIP ASSY. - 317	(18 or 14)-05	30	6	0.017
36-417	AA TIP ASSY. - 417	(18 or 14)-09	40	8	0.017
36-517	AA TIP ASSY. - 517	(18 or 14)-11	50	10	0.017
36-617	AA TIP ASSY. - 617	(18 or 14)-13	60	12	0.017
36-717	AA TIP ASSY. - 717	(18 or 14)-15	67	14	0.017
36-419	AA TIP ASSY. - 419		40	8	0.019
36-619	AA TIP ASSY. - 619		60	12	0.019
36-621	AA TIP ASSY. - 621	20-136	60	12	0.021
36-721	AA TIP ASSY. - 721	20-136	70	14	0.021
36-425	AA TIP ASSY. - 425	20-156	40	8	0.025
36-625	AA TIP ASSY. - 625		60	12	0.025

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C.A.Technologies

GO System

Portable Compressor System

70-103

- 2.0 HP compressor
- 4.6 Gallon twin tanks
- 7.0 CFM @ 40 PSI
- 5.3 CFM @ 90 PSI
- Advanced motor design for quieter operation
- Excellent unit for portability on the GO

GO Portable Compressor System

The GO portable compressor system is CAT's new on the go unit. This system contains a 2 HP compressor with 4.6 gallon twin tanks for a continuous supply of air, perfect for your low cfm options out in the field. The compressor is engineered to reduce noise for a quieter work environment. Outfits are available with a variety of CAT spray gun options.

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C.A.Technologies

GO Outfits

Portable Compressor System Outfits

Pressure Feed - FELCFM

FE-Line LCFM Outfits

GO-CP-FELCFM-303R2 Includes:
70-103,
CP-FELCFM-303R2 (1 QT),
53-112-25

GO-CP-FELCFM-130 Includes:
70-103, CP-FELCFM,
51-130 (2 QT), 53-112-25,
53-112-15, 53-213-15

GO-CP-FELCFM-202 Includes:
70-103, CP-FELCFM,
51-202 (2.5 Gal), 53-112-25,
53-112-15, 53-213-15

Gravity Feed

Premium Gravity Outfits

GO-CP-J100H-W Includes:
70-103, CP-J100H-W
53-112-25

GO-CP-J100H-W-PPS Includes:
70-103, CP-J100H-W-PPS
53-112-25

Touch Up Outfit

GO-TJR Includes:
70-103, TJR
53-112-25

Pressure/Siphon Feed - Tomcat

Tomcat Outfits

GO-T100C-18-2166-301 (Siphon) Includes:
70-103, T100C,
51-301 (1 QT), 53-112-25

GO-T100C-13-2163-130 (Pressure) Includes:
70-103, T100C, 51-130 (2 QT),
53-112-25, 53-112-15, 53-213-15

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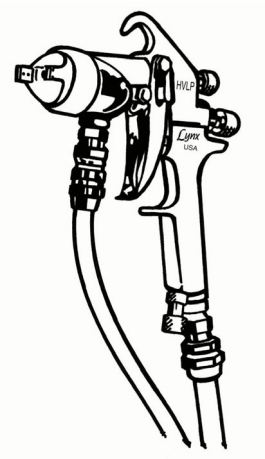
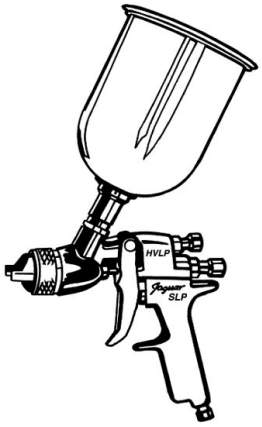
C.A. TECHNOLOGIES

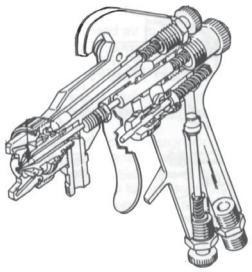
SPRAY GUIDE

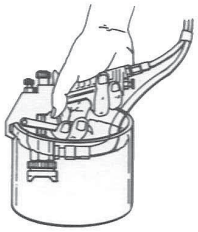
&

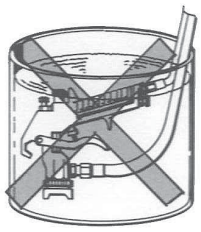
TRAINING MANUAL











C.A.Technologies

TABLE OF CONTENTS

Atomization Methods

Choosing the correct application method requires review of paint characteristics, product to be painted, and facilities.

When choosing a spray gun, consider the following list of atomization methods:

- **Air Atomization:**

  Used when the quality of finish is of utmost importance and when versatility is also a large factor (i.e. many different materials are to be sprayed).

- **Airless:**

  Used for large-scale applications not requiring a fine finish. Over-spray and rebound are limited due to absence of atomizing air. Heavy film thickness is possible with fewer strokes.

- **Air-Assisted Airless:**

  Fluid is delivered to the gun at a low, airless pressure, and is then pre-atomized at the airless tip. Atomization is completed by introducing air into the airless pattern. Air-assisted airless is highly transfer-efficient, delivering a high quality finish resembling that of air atomization.

- **High Volume Low Pressure (HVLP):**

  Used for high transfer efficiency to minimize over-spray and fog, and achieve compliance with regulatory air quality requirements. Normal operating pressures at the air nozzle are 10 PSI and below, creating a soft spray and delivering a fine finish.

Spray Guns

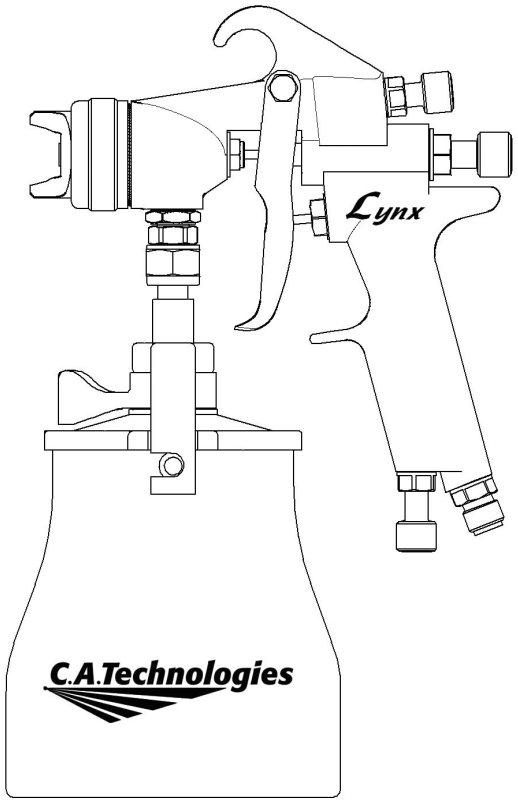
The spray gun is one of the key components in a finishing system. It is a precision engineered and manufactured instrument.

Types of Air Spray Guns

Air spray guns can be classified in a variety of ways. One way is by the location of the container. Another is by the type of material feed system.

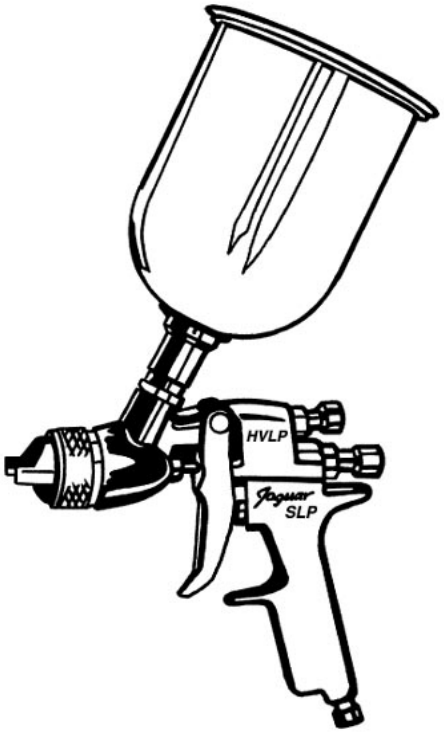
Siphon Feed Guns

- Material is pulled into the gun by suction



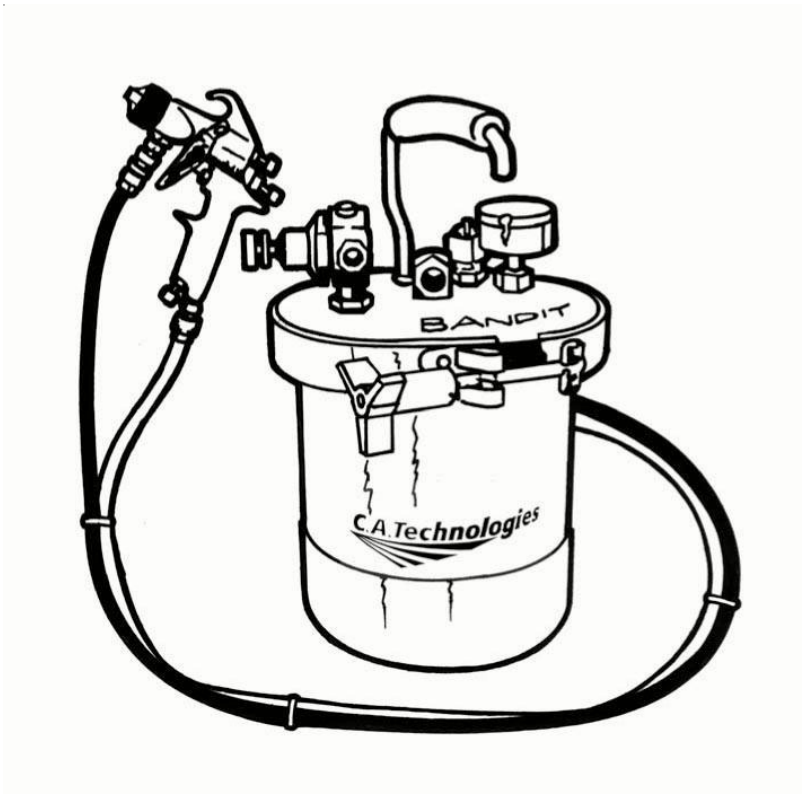
Gravity Feed Guns

- The material moves down into the gun, carried by its own weight
- Requires less air than suction feed guns
- Usually has less over-spray than suction feed guns



Pressure Feed Guns

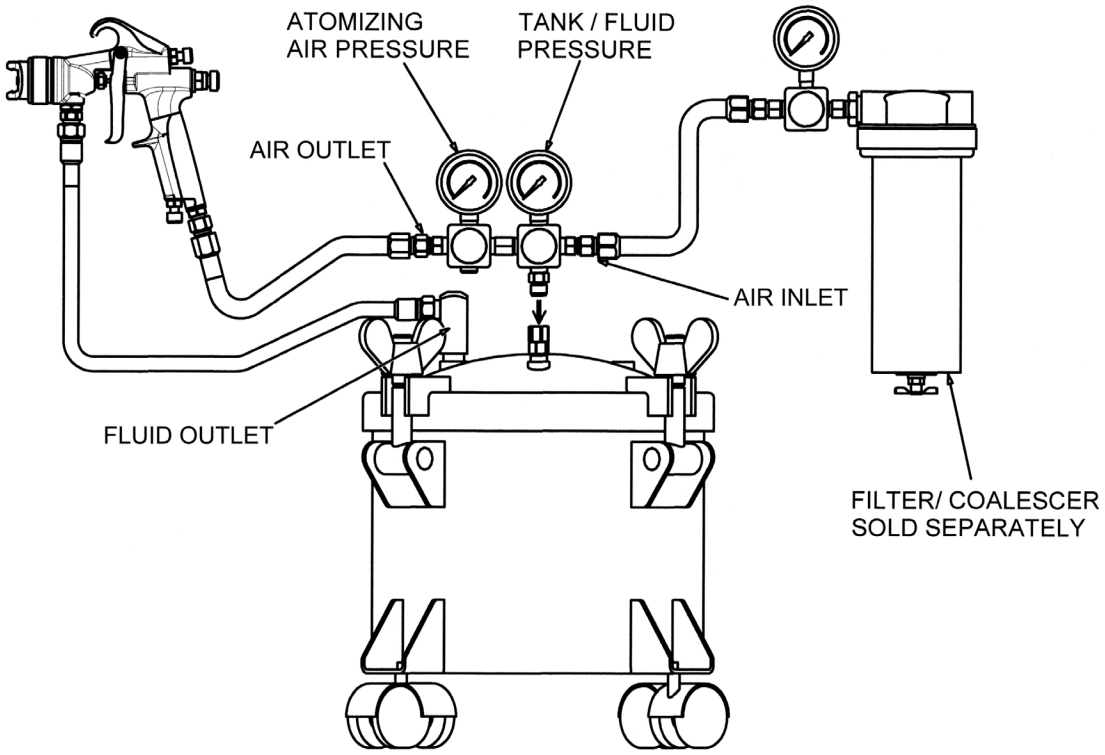
- The material is pushed into the gun by positive pressure.
- Normally used when large quantities of material are to be applied, when material is too heavy to be siphoned from a container, or when fast application is required.



Pressure Feed Tank Set Up

This is a highly efficient method for portable painting operations. Atomizing air and fluid pressures may be adjusted by their respective air regulators on the tank. Individual air and fluid lines are required for this system.

C.A. Technologies Pressure Pot Setup

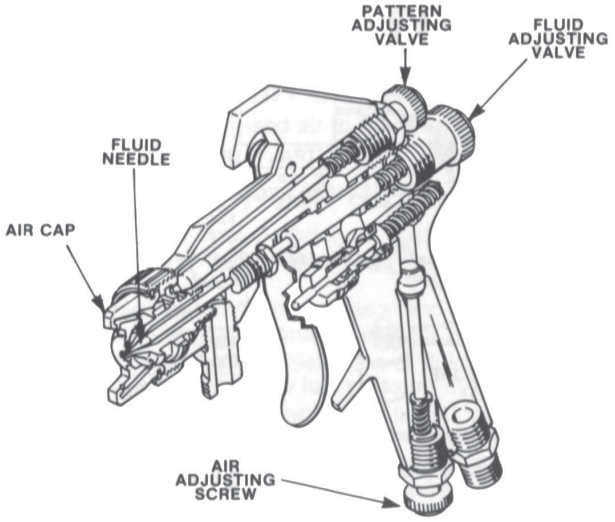


PRESSURE TANK SETUP (CAT 51-202)

Air At Gun Adjustment

There are two means of adjusting air at the gun. The Pattern Adjusting Valve and the Air Adjusting Valve.

Air and fluid adjustments

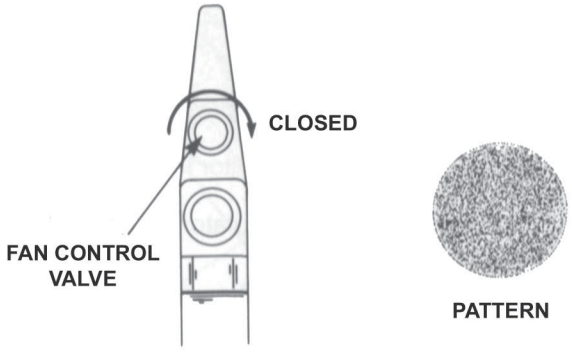


Pattern Adjusting Valve

The pattern-adjusting valve regulates air to the "horns" of the gun air cap. Horn air controls the shape of the spray pattern.

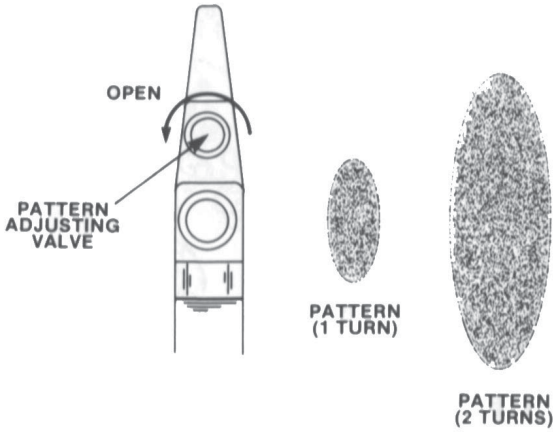
1. When the pattern adjusting valve is closed (turned completely clockwise), a round pattern results.

Round Pattern



2. Opening the pattern adjusting valve (turn counter clockwise) produces an increasingly wider and flatter fan pattern.

Fan Pattern

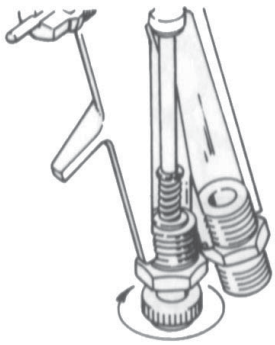


3. When the maximum spray pattern (widest fan) is achieved, additional turns will not affect the pattern.

Air Adjusting Valve

The air adjusting valve controls only the flow of air (CFM) to the air cap and has no effect on air pressure (PSI). The valve is often referred to as the "cheater" valve as it is used to restrict air without adjusting the air regulator.

Air Adjusting Valve



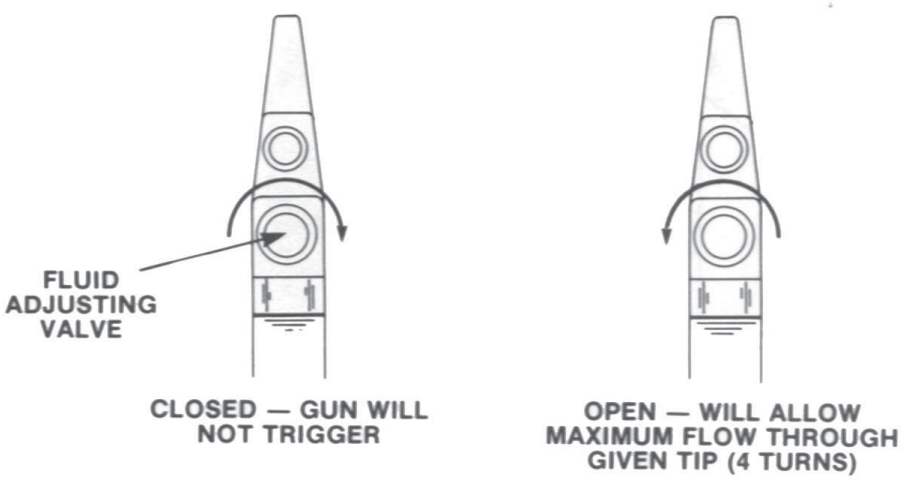
1. Closing the air-adjusting valve (turn counter-clockwise) restricts the air flow.
2. Opening the valve (clockwise) increases the volume (flow) of air. This will affect the degree of atomization, but will not change the spray pattern.
3. The air cap (CFM) specification will determine the (CFM) requirements of the gun.

Fluid At Gun Adjustment

Fluid Adjusting Valve

The fluid adjusting valve controls the volume of fluid by restricting fluid flow. It does not affect the pressure (PSI) of the fluid.

Fluid Adjusting Valve



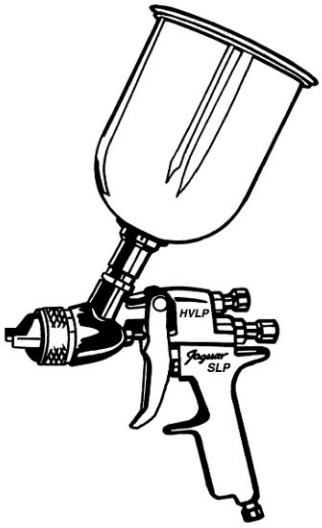
1. Closing the valve (turn clockwise) restricts the volume of fluid.
2. Opening the valve (turn counter clockwise) increases the volume of fluid. Trigger travel and tension will increase as the valve is opened.

NOTE: When fluid regulation is possible (pressure feed systems) it is best to regulate pressure and use the correct fluid orifice size rather than restricting material flow with the needle.

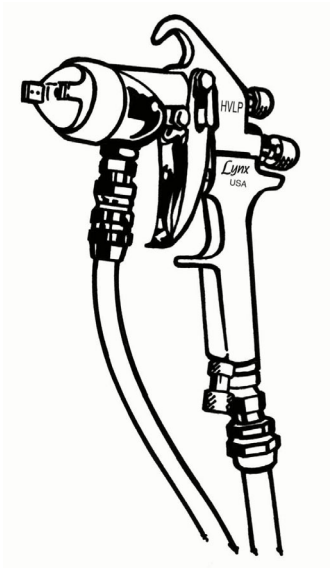
High Volume / Low Pressure Spray Guns

High Volume/Low Pressure or HVLP uses a high volume of air (usually between 15 and 22 CFM) delivered at low pressure (10 psi or less) to atomize paint into a soft, low-velocity pattern of particles. Regardless of the type of gun, when low pressure can be used to apply paint to a surface, approximately 50% greater transfer efficiency will be achieved.

- HVLP guns lose far less material due to over spray, bounce-back, and blowback than in standard guns.



HVLP (GRAVITY FEED)



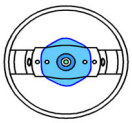
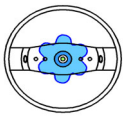
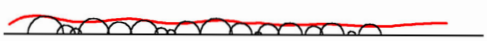
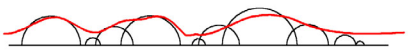
HVLP (PRESSURE FEED)

High Volume / Low Pressure Spray Guns (continued)

- Fluid control is very similar to that used in standard gravity feed guns- with the proper fluid tip size, almost all HVLP guns can be easily adjusted to deliver the amount of fluid desired.

Q: Why do C.A.T. 300, CPR and SLP series nozzles atomize so much better than the competition?

A: Our Patented12-Point Balanced Plenum

C.A.T.	COMPETITION
	
The atomizing air hits our 12-point fluid nozzle behind the air cap and is diffused. It surrounds the fluid in a uniform shroud of atomizing air as it leaves the air cap.	Without 12-point diffusion, high and low spikes or hot spots exist as the air leaves the air cap and surrounds the fluid.
	
This results in more uniform SMALL particles.	This results in very small and very LARGE particles.
The end result: 	The end result: 
A flatter more uniform finish is achieved.	Orange peel finish.

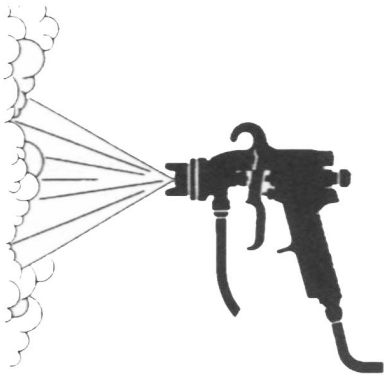
HVLP (continued)

HVLP Uses a High Volume of Air at Low Pressure to Spray Paint Droplets

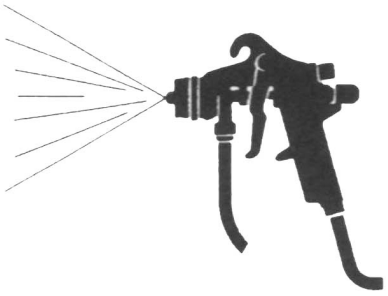
Advantages

- Cleaner paint jobs
- Requires less paint to do the same job
- Less over-spray
- Less spray booth maintenance
- Improved environmental conditions

Conventional high pressure spray transfer efficiency = 20% to 30%



HVLP low pressure spray transfer efficiency = 65% to 90%



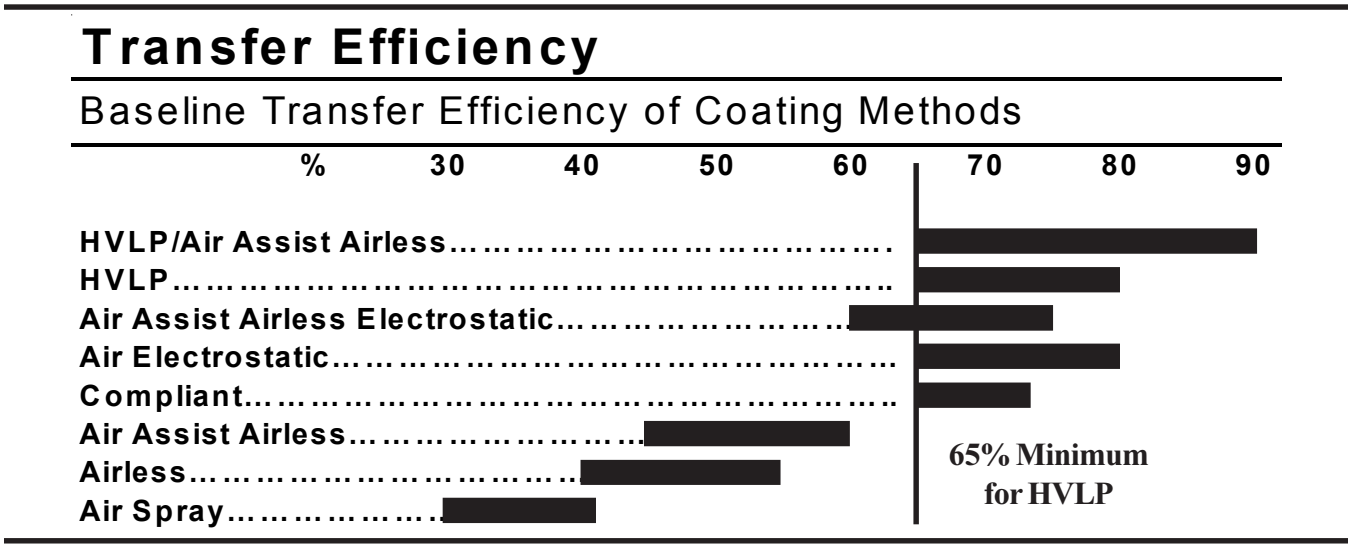
Transfer Efficiency of HVLP Spray Guns

Regardless of the type of spray gun being used, any time low pressure can be employed to apply paint to a surface you can expect to get approximately 50% better transfer efficiency.

HVLP's reduced velocity compared to conventional guns (10 psi instead of 40 to 70 psi) yields a more controlled spray pattern with less over-spray and bounce-back from the surface being coated. Over-spray and bounce-back result in increased costs for both coatings and booth filters. Normal operating nozzle pressures range from 3 to 10 PSI, with air consumption from 8 to 22 CFM. Lower viscosity materials can be atomized from 3 to 5 PSI, while heavier materials and higher fluid deliveries require the higher air settings, upwards of 10 PSI.

Factors that affect transfer efficiency:

- Surface – flat surfaces are much easier to paint than curved or spherical ones
- Type of paint – viscosity and particle-shear characteristics affect the amount of air needed to split the paint resin apart
- Paint droplet size – colors and clears, which require high air pressure to shear them apart create more over-spray and lower transfer efficiency



(Note: Actual transfer efficiencies may vary)

Quality Air and Airflow

- HVLP equipment requires clean dry air – moisture in the air lines can cause a reaction with the isocyanate hardeners used in most clears.

- HVLP equipment needs adequate air pressure to do a good job – although some newer HVLP guns require as little as 7.5 cfm (known as LVLP) to operate properly, most need 10 to 20 cfm. A 20 cfm gun will use all the air from an average 5hp compressor. If someone else starts using air while your HVLP gun is operating, the HVLP gun will begin fluctuating and atomizing poorly, resulting in a less-than-perfect finish. A **bigger compressor** is the best solution also using a smaller fluid tip and /or air cap on the gun will also minimize the problem.

HVLP Operator's Checklist

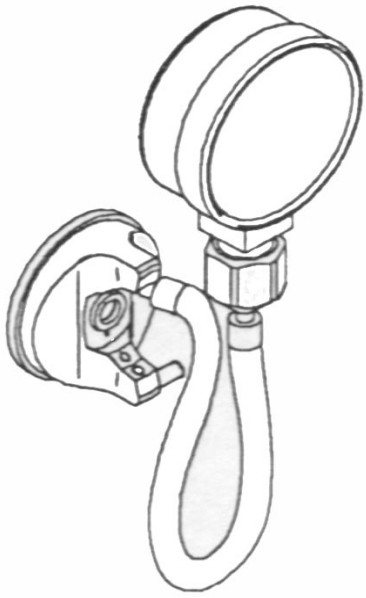
- Is your compressed air source large enough?

- What is the length and inside diameter (I.D.) of the air hose?

- Are you using quick disconnects on your air hose?

- Have you selected the proper air and fluid nozzle?

- Check your atomization air pressure with an air nozzle test gauge assembly.



TEST GAUGE

Using the HVLP Spray Gun

- Try moving the HVLP gun about half as fast as you would a normal gun; painters accustomed to standard spray guns usually move the gun about two feet per second; one foot per second could be a better choice for some HVLP guns.

- Some newer HVLP guns use less air pressure to achieve lower air pressure at the cap (maximum 10 psi) for compliant areas – these guns can be moved at approximately the same speed as conventional guns.

- Hold the gun closer to the surface – if you normally hold the gun 8 to 12 inches away from the surface, try 4 to 6 inches for HVLP – moving the gun more slowly and holding it closer may seem unnatural at first, but with a bit of practice, you will become accustomed to the new technique.

- Some HVLP manufacturers recommend moving closer to the surface, passing across the panel more quickly (with an overlap of 70% to 80%) and moving down the panel more slowly.

- Because they can end up drying rough when applied with HVLP guns, "tack" coats are not always recommended. The reason for the roughness has to do with the amount of air required to atomize the paint and the resulting droplet size – droplets tend to land further apart when applied dry and larger droplets with lower pressure behind them will not flatten out as much when they hit the surface.

- Instead of a "tack" coat, it is recommended that HVLP users apply a medium wet coat and then follow manufacturer's recommendations to get the finish to level out.

- Use of proper tip/cap combination is most important – e.g. 1.0 to 1.3 for basecoats etc.

Factors In Selecting the Right Air Cap

- The type and volume of material to be sprayed
- The size and nature of the object or surface to be sprayed

  Larger orifices or a greater number of orifices increase the cap's ability to atomize more material for faster spraying of large objects.

  Caps with smaller orifices or fewer of them usually require less air, produce smaller spray patterns and deliver less material – these caps are designed for painting smaller objects and/or by using slower speeds.

- The material feed system used: pressure, suction or gravity

- The size of the fluid tip to be used—most air caps work best with certain fluid tip/needle combinations

- The volume of air (in cubic feet per minute-CFM) and air pressure (in pounds per square inch – PSI) which is available

The Fluid Tip and Needle

- The fluid tip and needle restrict and direct the flow of material from the gun into the air stream – the fluid tip forms an internal seat for the tapered fluid needle, which reduces the flow of material as it closes

- The amount of material which leaves the front of the gun depends upon the viscosity of the material, the material fluid pressure and the size of the fluid tip opening provided when the needle is unseated from the tip

- Fluid tips are available in a variety of sizes to properly handle material of various types, flow rates and viscosities

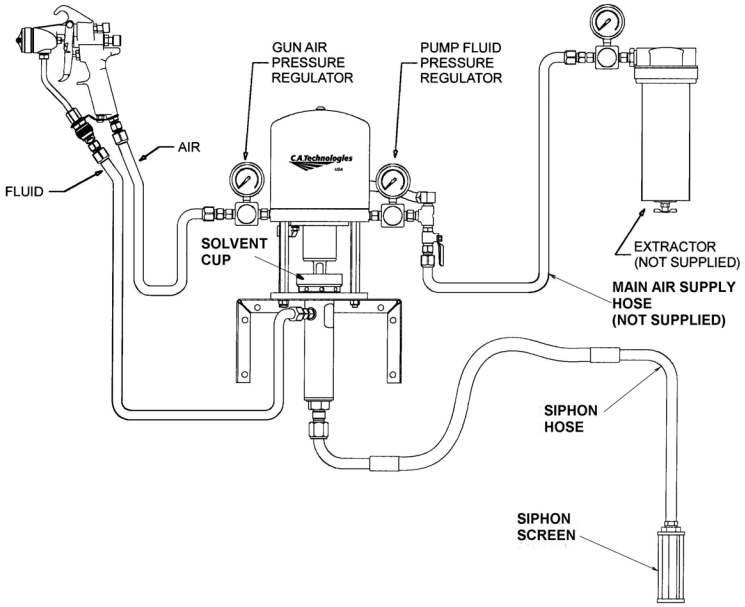
The Nozzle Combination

- The nozzle combination refers to the unit which is comprised of the air cap, the fluid tip and the needle – since these three components work together to produce a given quality of spray pattern and finish, they are usually selected together as a nozzle combination

Air Assist Airless

Air Assist Airless combines airless and conventional or HVLP air atomization technologies to produce a very soft yet highly atomized spray pattern suitable for fine finish and high production work. The soft spray pattern has minimal over spray and results in excellent material transfer efficiency.

Superfine soft atomization is achieved with precise geometry of the airless fluid tip and low volume air cap that mix at the locus of atomization. Air is blended with the fluid at the optimum point which delivers desired finishes at production speeds, for fine finish spraying of wood or other applications. With other systems, the air is injected beyond the optimum point for atomization creating excessive turbulence, over-spray, coarse particles, and a very uneven film build requiring additional finishing steps.



SETUP

1. Back the pump pressure regulator completely off (counterclockwise) and close the ball valve.
2. Attach the main air supply hose to ball valve on the pump fluid pressure regulator.
3. Attach fluid hose at pump outlet and gun fluid inlet.
4. Attach gun air hose to ball valve at gun pressure regulator and to air inlet on gun. Ball valve should be closed and regulator backed off.
5. Attach siphon hose to the pump inlet and insert siphon hose strainer into material to be sprayed.

BE SURE ALL CONNECTIONS ARE TIGHT

AIR ASSIST AIRLESS (continued)

General safety

The *C14 AAA* system is intended to be used by professional personnel only. Everyone using this equipment should read and understand all safety warnings. Do not exceed the maximum working pressure of this equipment. MAXIMUM WORKING PRESSURE IS 1500 PSI FLUID PRESSURE (107 psi to air motor). Do not modify this equipment. Always relieve fluid pressure to 0 psi before performing maintenance.

Make sure all fluid connections are tight before operating this equipment. Operate this equipment only in a well-ventilated area to prevent build up of toxic and or flammable fumes.

Fluid injection hazard

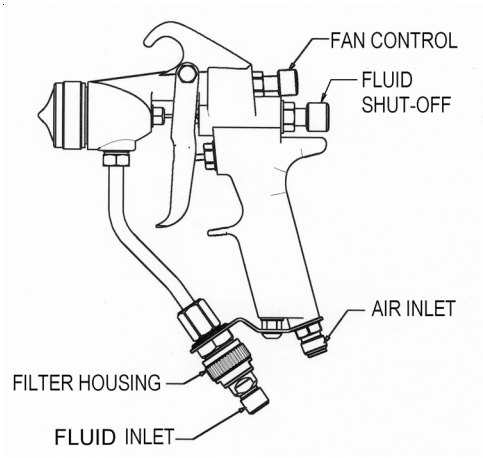
- High fluid pressure can cause serious injury if injected into skin.
- NEVER aim the spray gun at part of the body or towards anyone.
- NEVER put hands or fingers on or near a leaking hose, hose connection or the gun spray tip.
- ALWAYS use gun fluid shut off knob when not spraying.

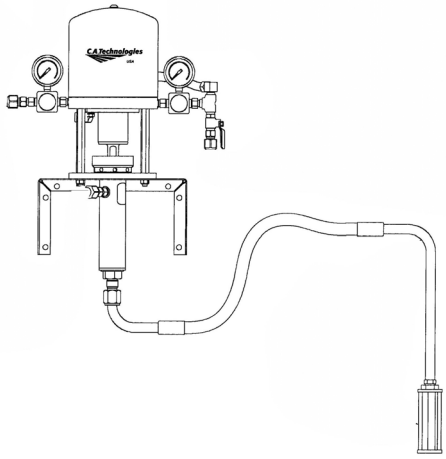
IF FLUID INJECTION SHOULD OCCUR, SEEK MEDICAL ATTENTION IMMEDIATELY

Possible Fire or Explosion Hazard

- Static sparks can cause fire or explosion.
- The *C14 AAA* system is equipped with a grounding wire. Connect this wire to an appropriate earth ground source. Also ground objects being sprayed.
- DO NOT operate this equipment near pilot lights, open flames or anyone smoking.
- Keep spray area clear and free of combustible debris.

C.A.T. AAA COUGAR GUN & PUMP





C.A.T. AAA TIP CHART

Part #	Orifice Size	Spray Angle (Degrees)	Pattern Width
36-207	0.007	20	4"
36-407	0.007	50	8"
36-309	0.009	30	6"
36-409	0.009	40	8"
36-509	0.009	50	10"
36-609	0.009	70	14"
36-211	0.011	20	4"
36-311	0.011	30	6"
36-411	0.011	40	8"
36-511	0.011	50	10"
36-611	0.011	60	12"
36-711	0.011	70	14"
36-213	0.013	20	4"
36-313	0.013	30	6"
36-413	0.013	40	8"
36-513	0.013	50	10"
36-613	0.013	60	12"
36-713	0.013	70	14"

Part #	Orifice Size	Spray Angle (Degrees)	Pattern Width
36-315	0.015	30	6"
36-415	0.015	40	8"
36-515	0.015	50	10"
36-615	0.015	60	12"
36-715	0.015	70	14"
36-815	0.015	80	16"
36-317	0.017	30	6"
36-417	0.017	40	8"
36-517	0.017	50	10"
36-617	0.017	60	12"
36-717	0.017	67	14"
36-419	0.019	40	8"
36-619	0.019	60	12"
36-621	0.021	60	12"
36-721	0.021	70	14"
36-425	0.025	40	8"
36-625	0.025	60	12"

Air Systems

Air Compressors

- The compressor is the "lifeline" of the spray-refinish industry.

- It serves one main purpose; it "compresses air."

Selecting an Air Compressor

- A quality two-stage, piston type compressor will typically deliver about four cubic feet per minute per horsepower. (4CFM per Horsepower)

- Choose an air compressor that is capable of delivering a non-varying air supply.

    1. Pressure fluctuation or drop can adversely affect the application of top coat material, especially metallic paint's appearance.
    2. Failure to achieve correct gun atomizing pressure will contribute to an undesirable effect known as "orange peel" (a paint defect that resembles the skin of an orange.)

- Choose a compressor that is big enough for all the requirements of the shop – compressors that run more than 50% of the time are considered undersized. As a rule-of –thumb, allow at least 15 minutes spread over each hour as down time to allow the compressor to cool down.

Using the Right Air Hose

NOTES:

Compressor-Gun Distance ↑ = Hose Diameter ↑

As the distance from the compressor to the gun increases, so should the diameter of the Air Hose.

Because HVLP guns require more CFMs, a 5/16" hose or larger should be used.

See the below charts to select the proper size of hose for different distances.

Type	Length	Size
General Purpose	0' - 15'	1/4"
	15' - 25'	5/16"
	25' - 50'	3/8"
	50' - 100'	1/2"
HVLP	0' -25'	5/16"
	25' - 50'	3/8"
	50' - 100'	1/2"
Recommended Air Hose Sizes		

Air Hose Pressure Loss				
	15 CFM	**18 CFM**	**20 CFM**	**25 CFM**
1/4" x 20'	20 psi	26 psi	28 psi	34 psi
5/16" x 20'	7 psi	10 psi	12 psi	20 psi
3/8" x 20'	2.8 psi	4 psi	4.8 psi	7 psi
Loss in pressure with different hose diameters at different flow rates.				

Air Pressure & Orange Peel

Loss of air pressure in a system is most likely the cause of *orange peel*, a finish disaster that is a time-consuming redo or polishing repair.

Troubleshooting Drops in Air Pressure

- Is the air hose large enough in diameter?
- **Check**✓ See the chart on page 20 for length of hose vs. diameter rules.
- Is the air hose too long, or longer than necessary?
- Are there too many quick disconnects in the system?
- Are you using restrictive, non High Flow quick disconnects?
- Does your regulator pass enough CFM?
- Are you using a large enough air compressor?
- **Check**✓ Most compressors get 4 CFM per horsepower—Do you have enough horsepower for your gun?
- Are you using cheater valves at gun?

Compressed Air Piping

- The diameter should always be the recommended size or larger. Piping that is too narrow increases the turbulence of the compressed air and causes it to flow inefficiently. This, in turn causes the compressed air pressure to drop.

- Piping should slope toward the compressor air receiver or a drain leg installed at the end of the main line or at the end of the branch. The piping is sloped so that water will gather at low points in the system for easy drainage on a daily basis.

- Piping can be made from black iron, galvanized steel, copper or plastic. Note that plastic piping will not cool the air the same way steel or iron piping can. Plastic piping can also lose its shape over time, developing sags where moisture can collect.

- Piping must be rated and approved for high pressure and should meet local codes as applicable.

- The main air line and the outlet lines should run through the center of the shop ceiling or around the shop's inside wall.

- Piping should **not** be run near anything that could change the temperature of the compressed air inside it; moisture accumulation due to condensation could result.

- Piping should be large enough to keep the total piping pressure loss below 1 psi.

- The piping layout should follow a "full loop" design **(see CAT Inline Filter Diagram on pg 23).**

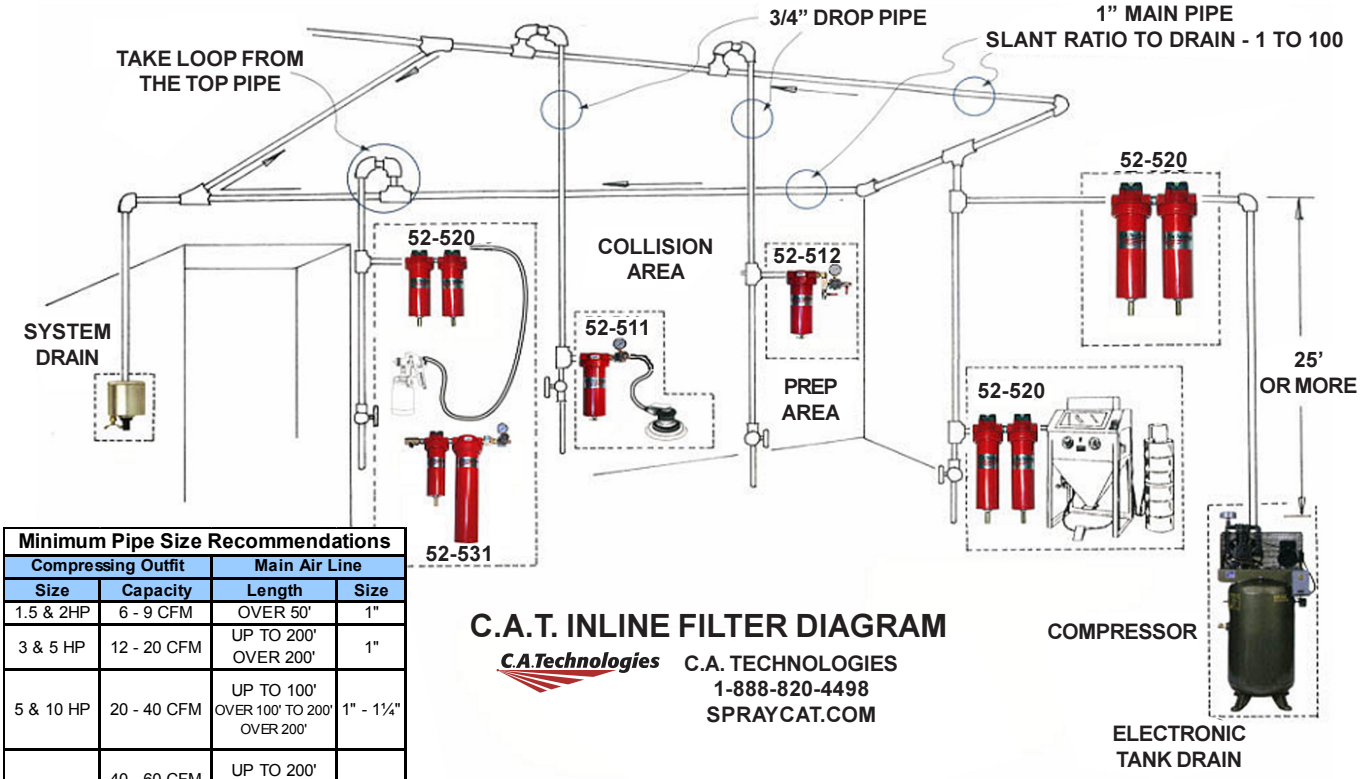
- The compressed air in the piping should be run at high pressure and regulated to the desired pressure at the point of use.

- Piping should always have drops taken from the top of the header pipe.

- Piping should be joined with tees so that drops can be added easily at a later date.

CAT INLINE FILTER DIAGRAM

Air is moved from the compressor or holding tank to the tools and the equipment via piping. Here are some points to consider when selecting and installing piping for your shop:



Minimum Pipe Size Recommendations			
Compressing Outfit		Main Air Line	
Size	Capacity	Length	Size
1.5 & 2HP	6 - 9 CFM	OVER 50'	1"
3 & 5 HP	12 - 20 CFM	UP TO 200' OVER 200'	1"
5 & 10 HP	20 - 40 CFM	UP TO 100' OVER 100' TO 200' OVER 200'	1" - 1¼"
10 & 15 HP	40 - 60 CFM OVER 200'	UP TO 200' OVER 100' TO 200' 1" - 1/2"	1" - 1¼"

*Piping should be direct as possible. If a large number of fittings are used, large size pipe should be installed to help overcome excessive pressure drop.

Air Dryers

Air dryers lower the dew point by reducing moisture and removing other contaminants of raw, untreated air. These contaminants can clog and damage downstream equipment and cause costly product rework and downtime.

Optimum efficiency and maximum productivity can only be achieved by using proper moisture and air treatment equipment.

Water in compressed air causes:

- Loss of surface gloss
- Surface blemishes
- Poor adhesion of finishing materials
- Rust scale to form on the inside of iron piping, ultimately resulting in damage to tools and equipment

Dry air saves redoing paint jobs.

Desiccant Air Dryers & Filters/Coalescers

C.A.T. offers a complete line of Filters, Dryers and Coalescers to keep compressed air lines, dirt, water, oil and moisture free.

Tools for drying and cleaning air are:

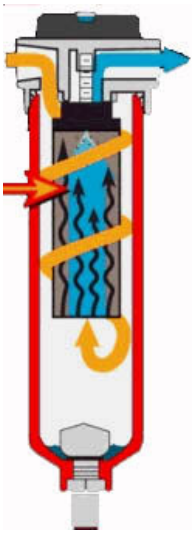
Filter removal of water and contaminants.

Coalescer removal of oil and sub-micronic particles down to .01 microns.
(1 micron is 1/25,400 inch)

Desiccant Dryer removal of uncondensed moisture.

For highest quality paint finish, use C.A.T.'s superior filtration systems (Filter/Coalescer, Main Line Combo, Filter/Dryer) and mount unit as near as possible to spray gun.

FILTER/COELESCER (CAT 52-523)

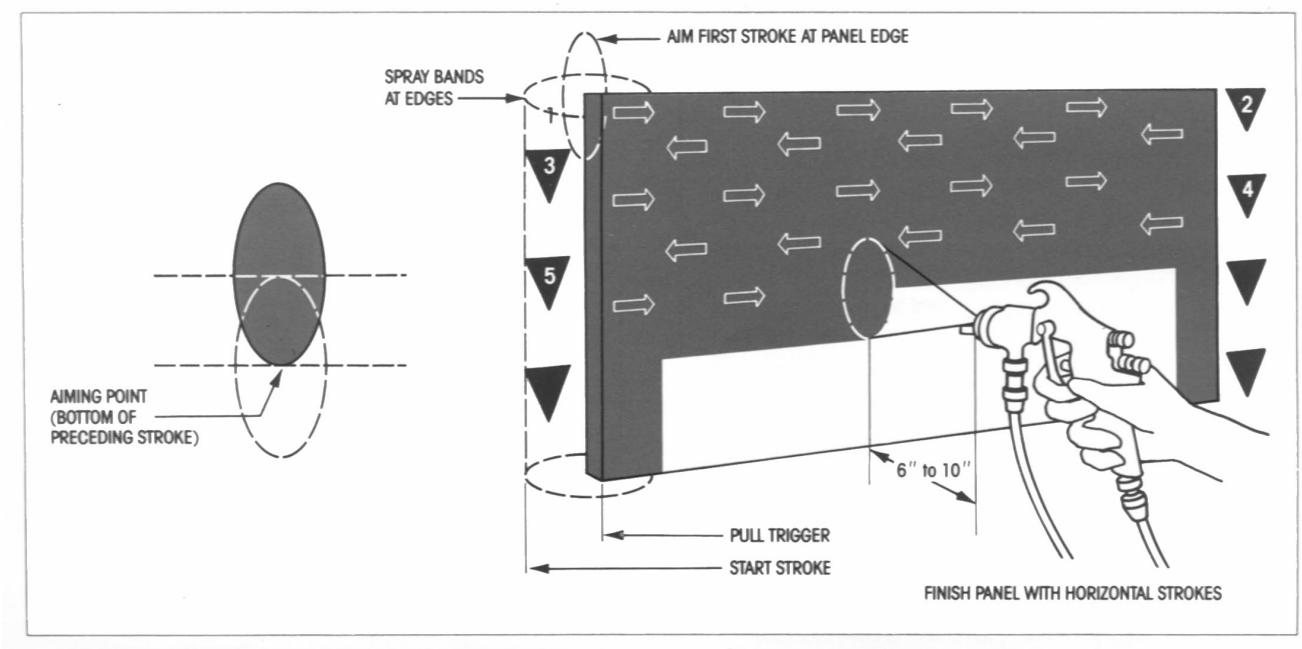


FILTRATION PATH

Application & Spray Gun Maintenance

Flat Surfaces

The technique of spraying a flat surface is shown in the diagram below. Every stroke is triggered. The stroke is started off the work and the trigger is pulled when the gun is opposite the edge of the material. The trigger is released at the other edge of the panel but the stroke is continued for a few inches before reversing for the second stroke. Triggering is the key to good spray technique. The goal is to time your triggering to hit the exact edge of the work. This maintains full coverage while minimizing over-spray.



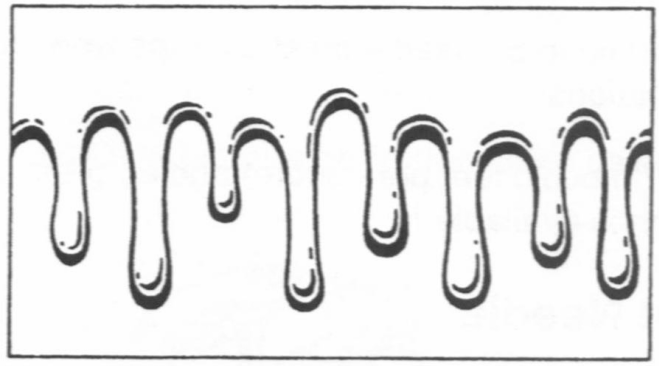
Paint Spraying Pointers

Proper handling of the gun is critical for the results that will produce a professional finish. The gun should be held perpendicular to the surface being covered, and moved parallel across the surface. It is important to begin the stroke before the gun is triggered so as not to build up paint at the beginning of the stroke. Also, release the trigger before the stroke has ended so you keep an even film build. The distance between the gun and the surface must be held even throughout the stroke, between 6 to 12 inches, depending on the material and atomizing pressure; HVLP spraying is usually sprayed closer than Conventional. Overlap each stroke by approximately 50% to achieve an even film build.

Initial Setup

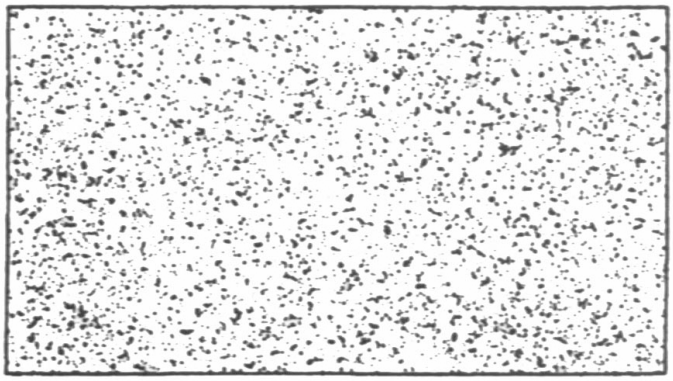
1. Spray a horizontal test pattern (air cap horns in a vertical position). Hold the trigger open until the paint begins to run. There should be even distribution of the paint across the full width of the pattern (see illustration below). Adjust with fan pattern adjustment. If distribution is not even, there is a problem with either the air cap or the fluid tip. If the pattern produced by the above test appears normal, rotate the air cap back to a normal position and begin spraying. (A normal pattern will be about nine inches long when the gun is held eight inches from the surface.)

"Horizontal test pattern with even material distribution."

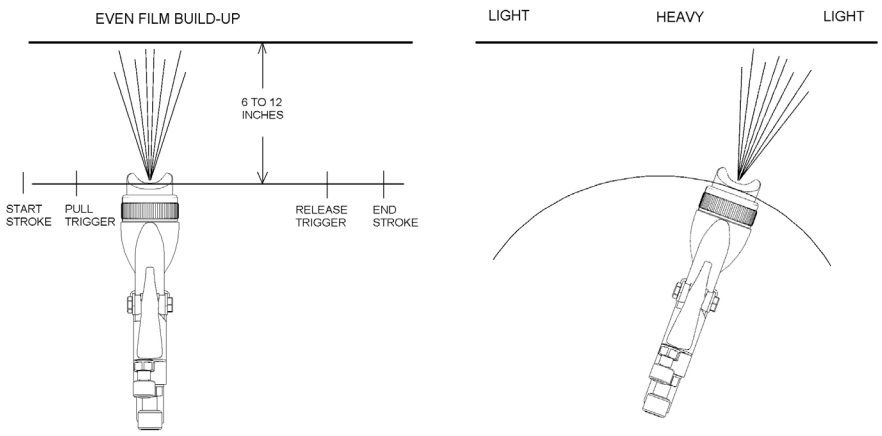


2. With the fluid adjusting screw open to the first thread, and the air pressure set at approximately 20% lower than recommended psi, make a few test passes with the gun on some clean paper. If there are variations in particle size – specks and or large globs – the paint is not atomizing properly. See below.

"Pattern with uneven particle size"

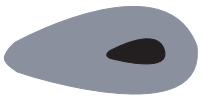
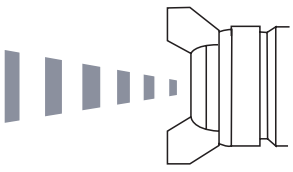


Spray Technique



GOOD TECHNIQUE POOR TECHNIQUE

TROUBLE SHOOTING SPRAY PATTERNS

TYPICAL FAULTY AIR NOZZLE SPRAY PATTERNS		
Pattern	**Cause**	**Correction**
	1.Dried paint in one of the side port holes of air nozzle.	1. Dissolve paint in side port hole with thinner; do not probe in any of the holes with a tool harder than brass.
	1. Fluid build up on side of fluid nozzle. 2. Damaged fluid nozzle because spray gun was dropped.	1. Remove air nozzle and wipe off fluid nozzle. 2. Replace damaged fluid nozzle.
	1. Air pressure too high. 2. Spray pattern too wide. 3. Fluid pressure too low.	1. Reduce air pressure. 2. Reduce fan width. 3. Increase fluid supply.
	1. Air pressure too low. 2. Excessive fluid velocity or too much fluid.	1. Increase air pressure. 2. Use smaller fluid nozzle orifice, lower fluid pressure.
 SPITTING	1. Air entering the fluid supply could be caused by: a. Loose fluid nozzle, or not seating properly. b. Loose, damaged or worn fluid seal. c. Fluid connection loose.	a. Tighten fluid nozzle, or clean fluid nozzle seat area. b. Tighten or replace worn needle seal assembly. c. Tighten all fluid supply connections leading to spray gun.

Spray Gun Maintenance

Maintenance of an Air Spray Gun

A spray gun is a precision tool and will perform best if kept cleaned and lubricated. Fluid passageways should be cleaned as follows:

- ### Siphon Spraying

Wash off the siphon tube with solvent. Dip the siphon tube into a container of clean solvent and spray. Trigger repeatedly to thoroughly flush the passageway and clean the fluid nozzle and needle. A rag held tightly over the air nozzle will forcibly eject fluid backwards through the dip tube when the gun is triggered. This backwashing is sometimes useful in cleaning guns quickly.

- ### Pressure Spraying

Replace the paint in the pot or cup with clean solvent and flush through the paint lines using low fluid pressure (no atomizing air is necessary). Trigger the gun repeatedly to permit the solvent to rinse out all passageways. Do this until clean.
Wipe off the gun body with a cloth saturated with solvent compatible with the coating used. Your equipment supplier can indicate points on his equipment that should be lubricated periodically. To avoid “fish eyes” and other surface defects never use oils or lubricants containing silicones.

Preventive Maintenance

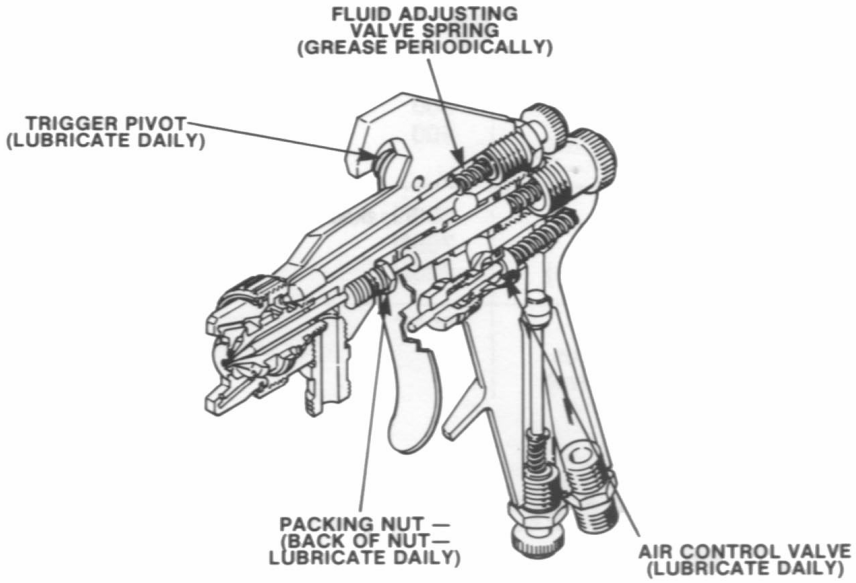
WARNING!!!

Always shut off air and fluid supply to gun and relieve pressure before attempting any service.

An air spray gun is a precision finishing tool manufactured to close engineering tolerances. The gun must be kept clean and lubricated. The following data is the daily operator maintenance required to keep the gun in good operating condition.

Start-Up

1. With a lightweight oil, lubricate the air spray gun daily at the points shown in the figure below. Periodically lubricate the fluid needle spring with a lightweight grease or petroleum jelly.



2. Keep the system air filter as clean as possible. Drain the air filter daily.
3. Remove the gun from the solvent cup and clean the air cap. Be certain the solvent used is compatible with the paint being sprayed.

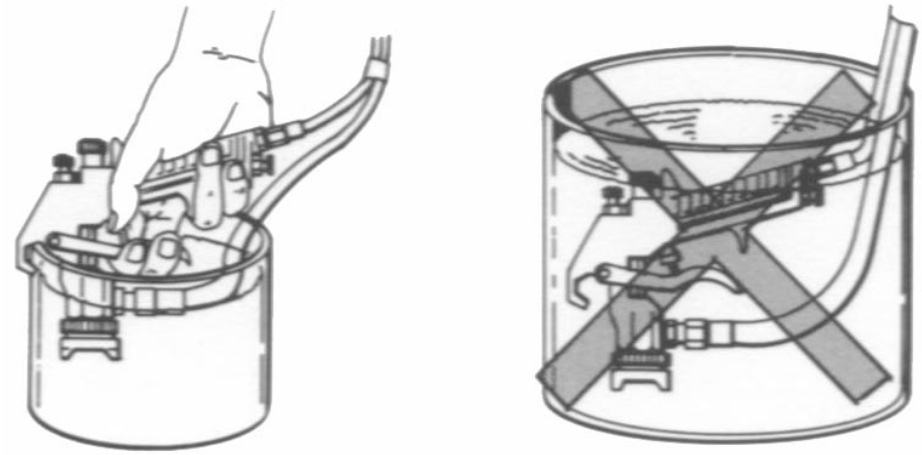
Shut Down

Shut down both the fluid handling and air supply of the air spray system. Relieve both air and fluid pressure at the gun. Immerse only the fluid tip and air cap of spray gun in a compatible solvent.

CAUTION

Do not submerge the entire gun in the solvent. This causes scale deposits and other foreign material to form in the air passages, which later could either clog the air cap or be sprayed onto the surface of the part.

Cleaning Fluid tip and air cap.



Booth Contamination Management

The spray booth is subject to contamination in the following ways. Here's what you can do about them:

Air Leaks

- Install proper seals for door frames, light openings, and panel seams and replace them when they begin to leak
- Use caulking for panel joints and OEM replacement seals to keep contamination out of the clean air stream
- Turn booth lights off and check for holes in booth doors etc. from the outside

Housekeeping

- Sweep or vacuum the booth floor on a daily basis. Make sure the booth is running (air is flowing) to minimize airborne particles of dirt
- Periodically wipe down the booth walls, doors, any wall mounted air controls to remove dust and paint
- Store parts and paint outside the booth
- Locate work benches and trash cans outside the booth
- Never do sanding or blowing off in the spray booth – the resulting dust will not only ruin the present job but many future jobs as well
- Spray a strippable coating (one which can be removed with water) on the booth walls on a regular basis

Exhaust Air

- Change paint arrestor filters when testing with the balancing gauge or manometer indicates it is time – clogged filters reduce air movement and increase the presence of over-spray particles in the air. Always do your test with the booth running

Reference Material

[1] BINKS Manufacturing Company, Air Spray Manual. (Printed in the USA, 1976).

[2] Southern Alberta Institute of Technology, DuPont Paint Application Management Course.
(Printed in Canada, 1998).

[3] BINKS Training Division, High Volume Low Pressure – HVLP. (Franklin Park, IL. TD 10-4).

[4] RUST-OLEUM CORPORATION, Mixing, Thinning and Application. (Printed in USA, 1995), Form # 1011.

[5] Graco Inc., Air Spray Training Series: Air Spray Techniques. (Printed in USA, 1988), Form #300-068R3.

Training Seminar (Level I)

Professional Spray Equipment and Application Training

Professional Equipment and Application Training (Level I)

Training Facilitators/Instructors

The C.A.T. training group brings together over 65 years experience and involvement in paint finishing equipment, equipment design and equipment application.

Health and Safety

For spray booth painting, we supply new Sperian Premier Series 1/2 face-piece respirators with the P100 cartridge. You may bring your own approved and personal respirator if you choose.

Dedicated Training Areas

Classroom: Comfortable conference room with audiovisual equipment.
Spray Booth: Bench Booth

Training Mission Statement

To present information and educational training classes structured to provide comprehensive product familiarization for C.A.T. equipment. Product training knowledge and improved technical skills will establish both sales/technician proficiency and credibility. For our Distributors/Sales force to strongly endorse the quality of C.A.T. products with loyal user satisfaction, as they will consistently produce the highest quality of service for our customers, resulting in repeat customer business and new business from customer referrals.

Class Subject Offering

Atomization methods	Material supply	HVLP (High Volume Low Pressure)
Nozzle combinations	Improvement line	Air systems
C.A.T. product training	Application and spray gun maintenance	

Course value - $350.00

Each attendee will receive a C.A.Technologies training book containing all training manuals, C.A.T. product information sheets for products being discussed, a C.A.T. product catalog, Certificate of Completion and other related product information and promotional items.

Hotel Accommodations

With a completed registration form, C.A.Technologies will make reservations at one of the following hotels:

Courtyard by Marriott
Louisville, CO
303-604-0007

Hampton Inn
Louisville, CO
303-666-7700

To request registration forms or training information please contact:
Audrey Manning at audrey@spraycat.com
Phone 888-820-4498 Fax 303-438-5708

C.A.Technologies

Training Registration (Level I)

Professional Spray Equipment and Application Training

Company_____

Address_____

City_____ **State**_____ **Postal Code**_____

Phone Number (_____)_____ **Fax** (_____)_____

Name of Attendee:
(If more than one person attending, place a star * by the main contact.)

1. _____ Email _____
2. _____ Email _____
3. _____ Email _____
4. _____ Email _____

Requesting training dates:

☐ March 7-9

☐ July 18-20

Special schools for distributor groups can be arranged. Please call for information.

To request registration forms or training information please contact:
Audrey Manning at audrey@spraycat.com
Phone 888-820-4498 Fax 303-438-5708

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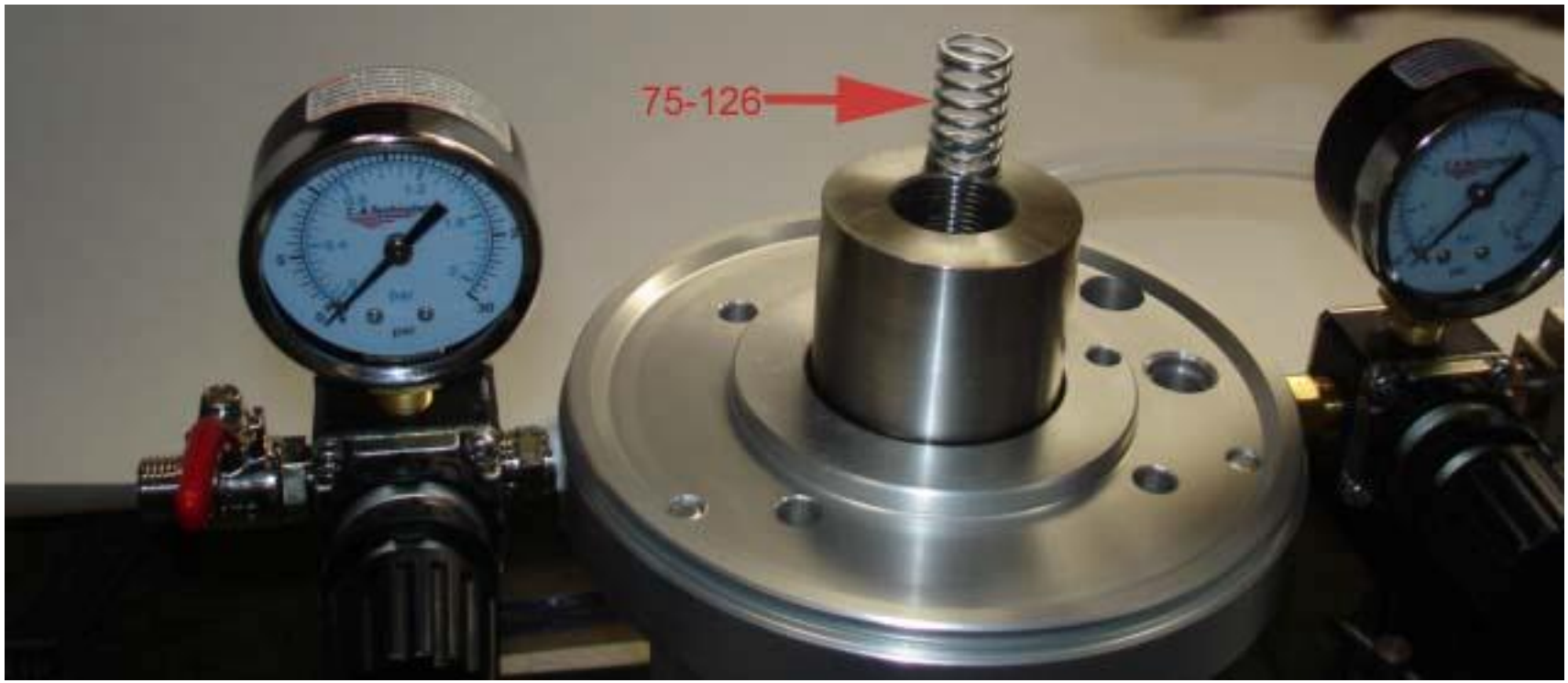
14:1 Air Assist Airless
Air Motor and Fluid section
Assembly Instructions

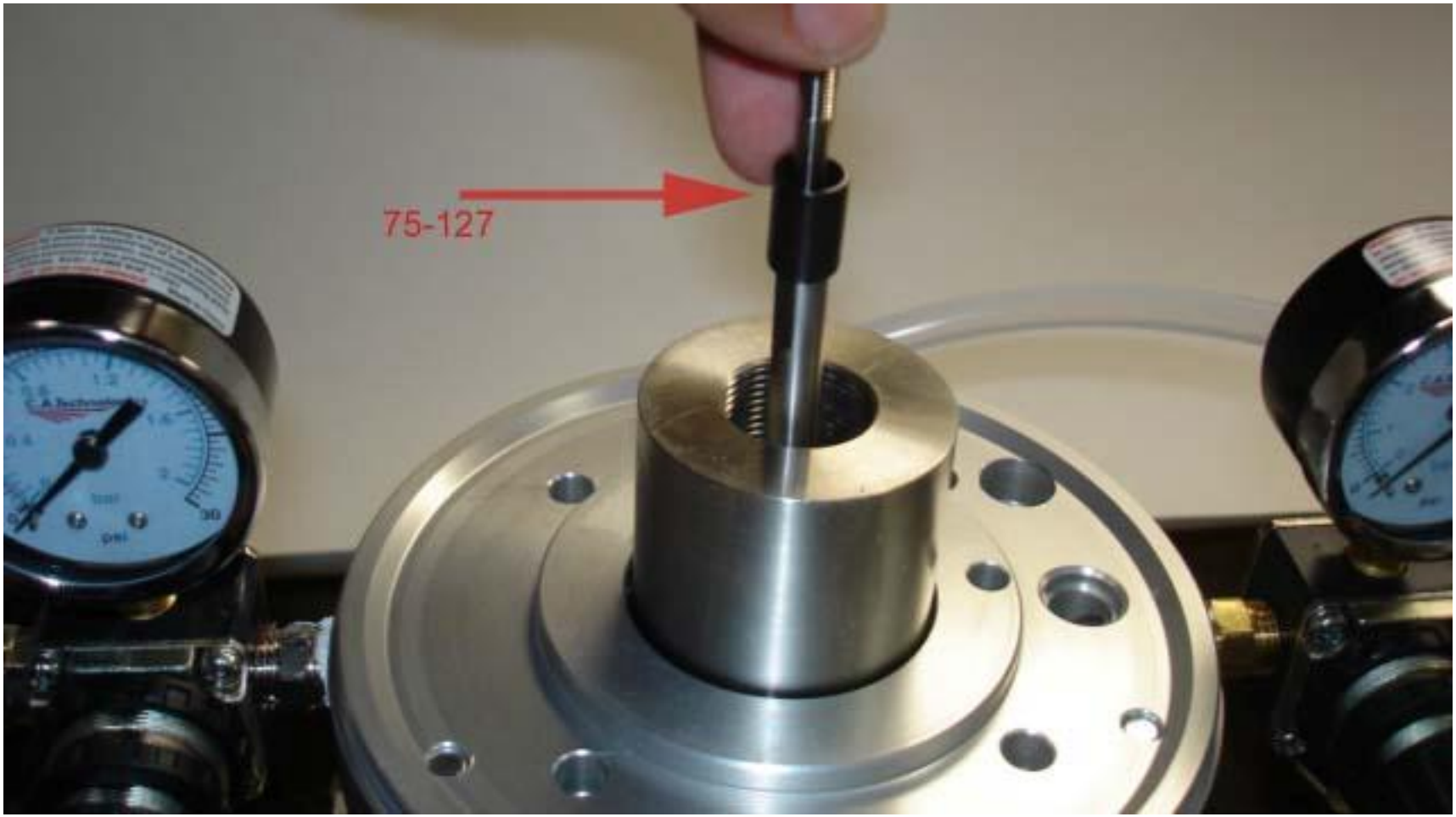

75-116
75-138
75-112
74-129
74-128

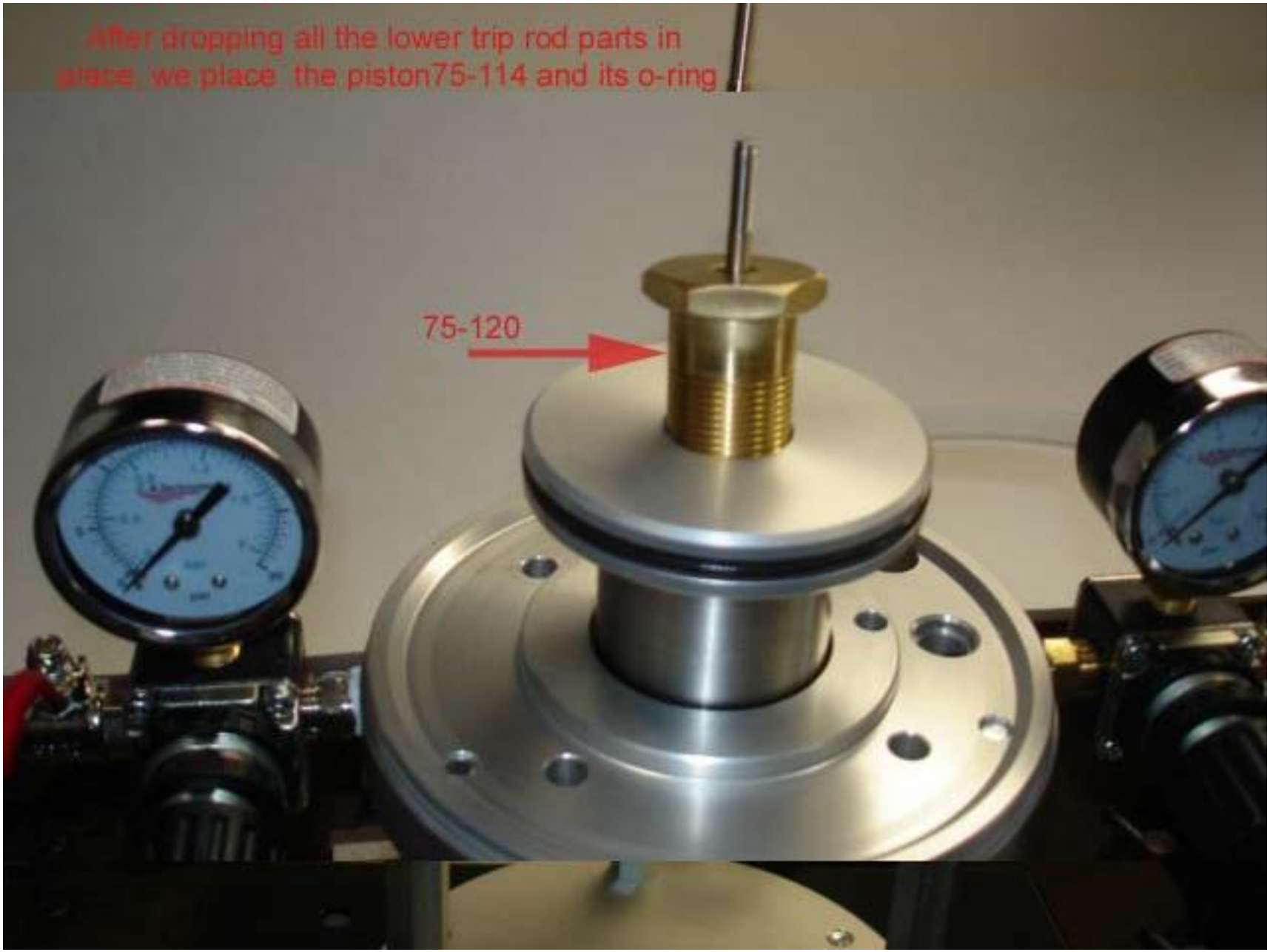

75-128


75-126

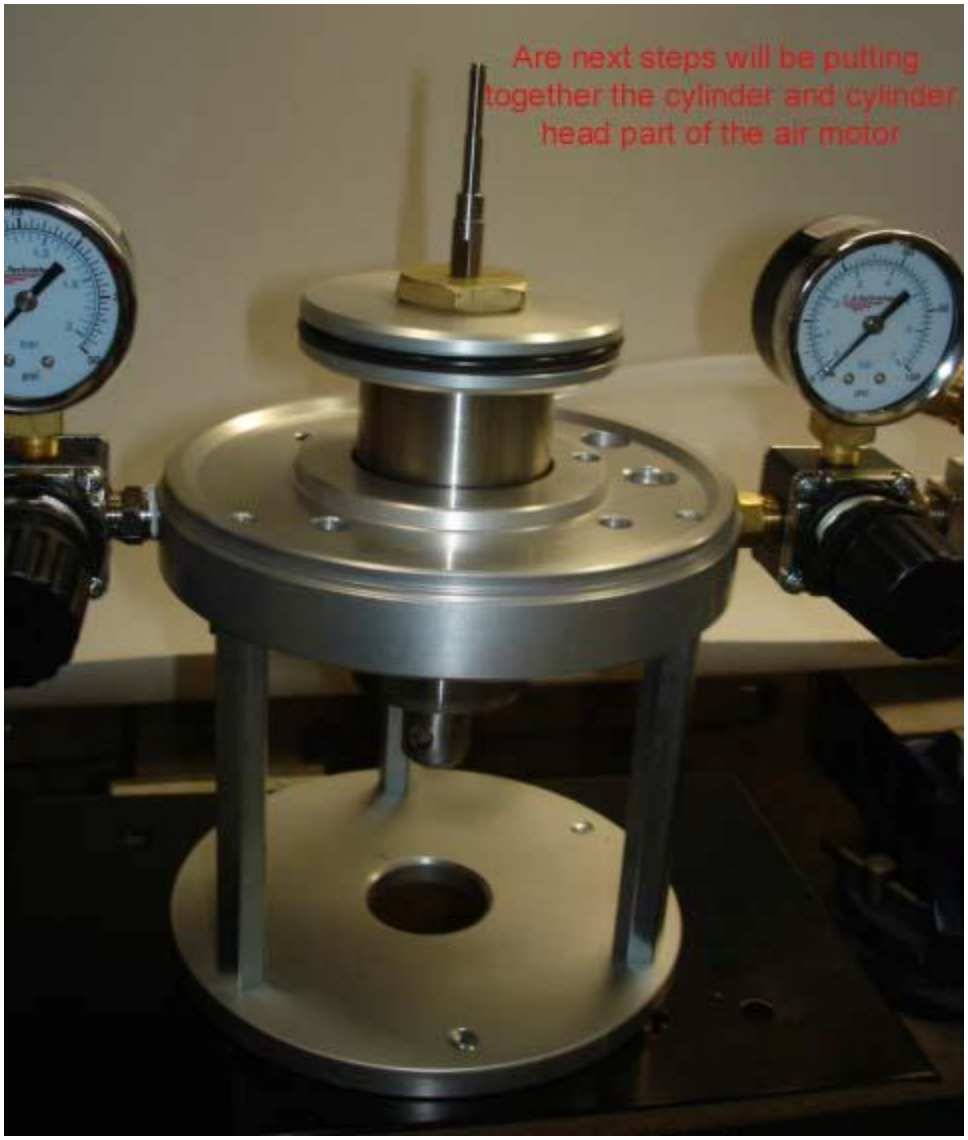

75-117


75-126
second spring (1 before the trip rod
and one after the trip rod 75-117 is put in place

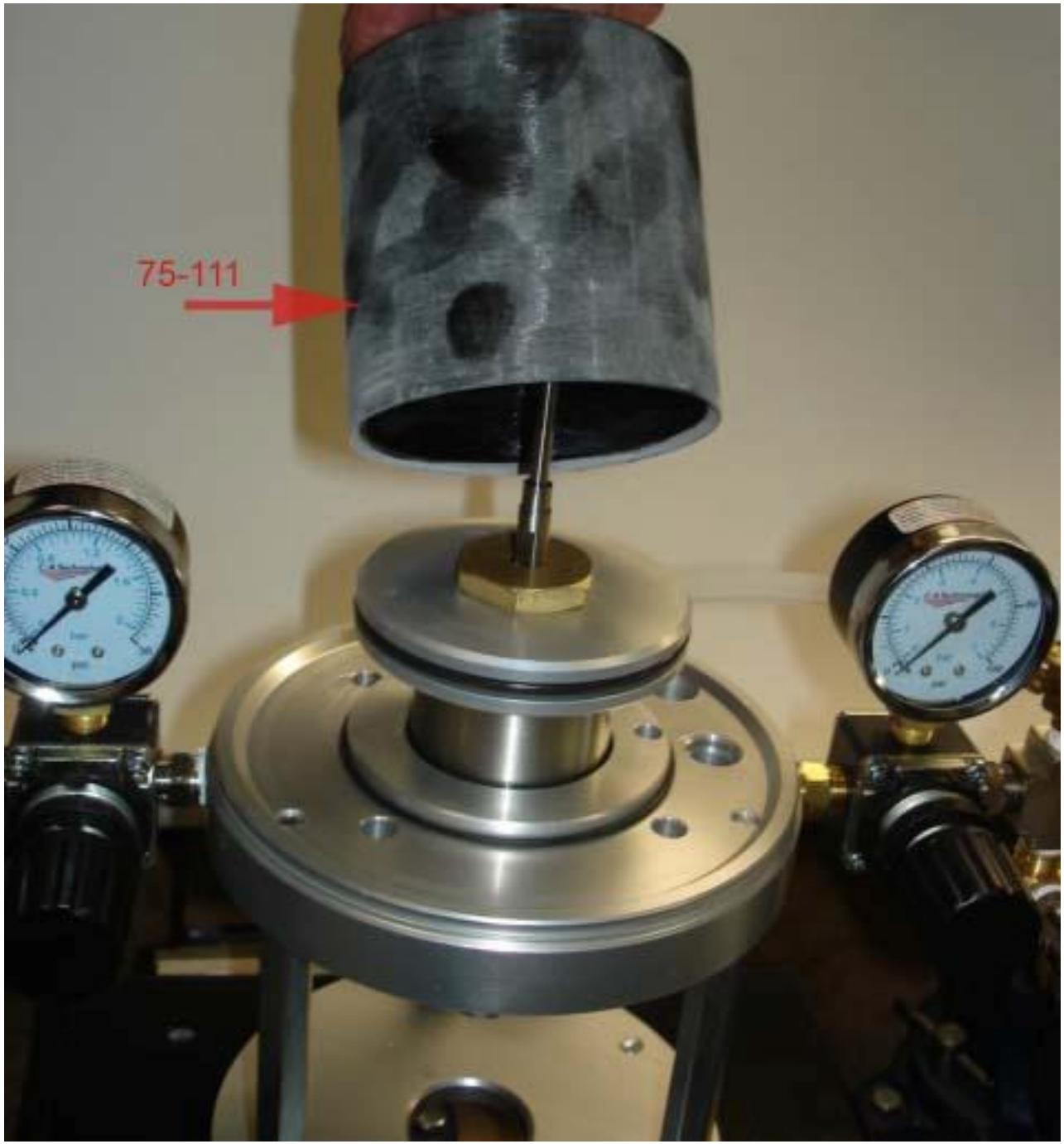

75-127


After dropping all the lower trip rod parts in
place, we place the piston75-114 and its o-ring
75-120

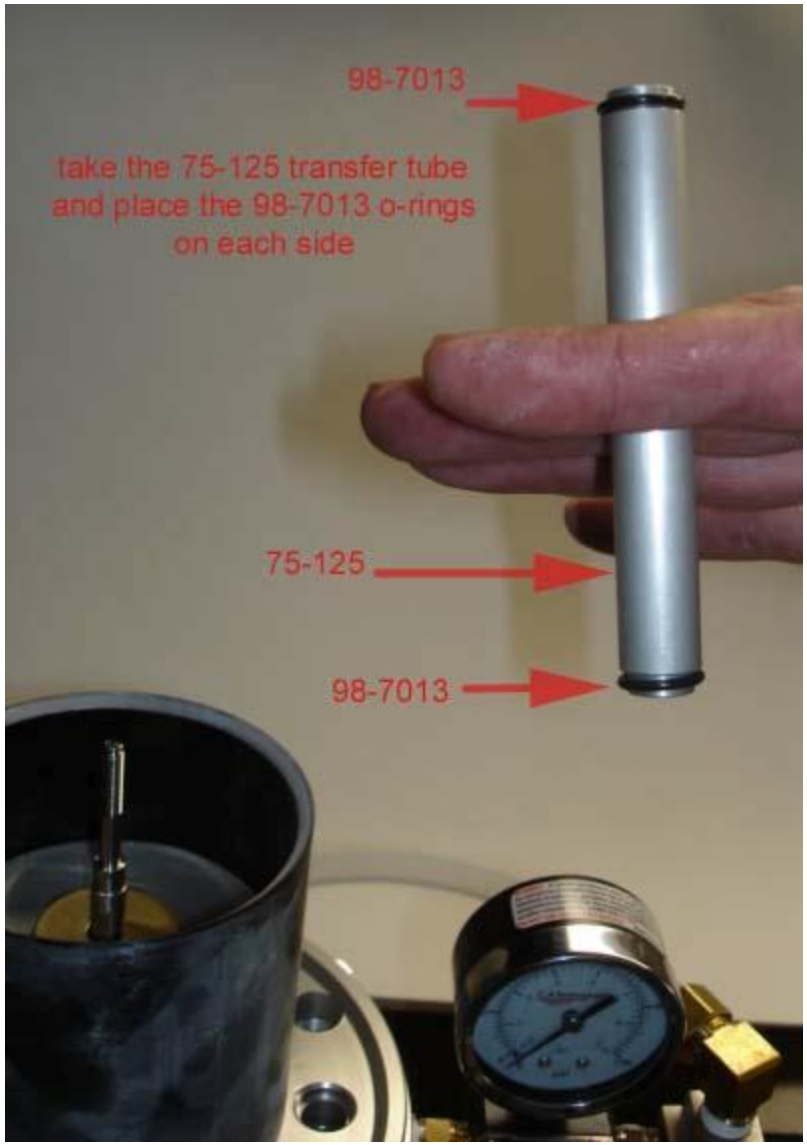

Once all parts are in place tighten up the
75-120 pistonretainer with a crescent
wrench. This should be snug

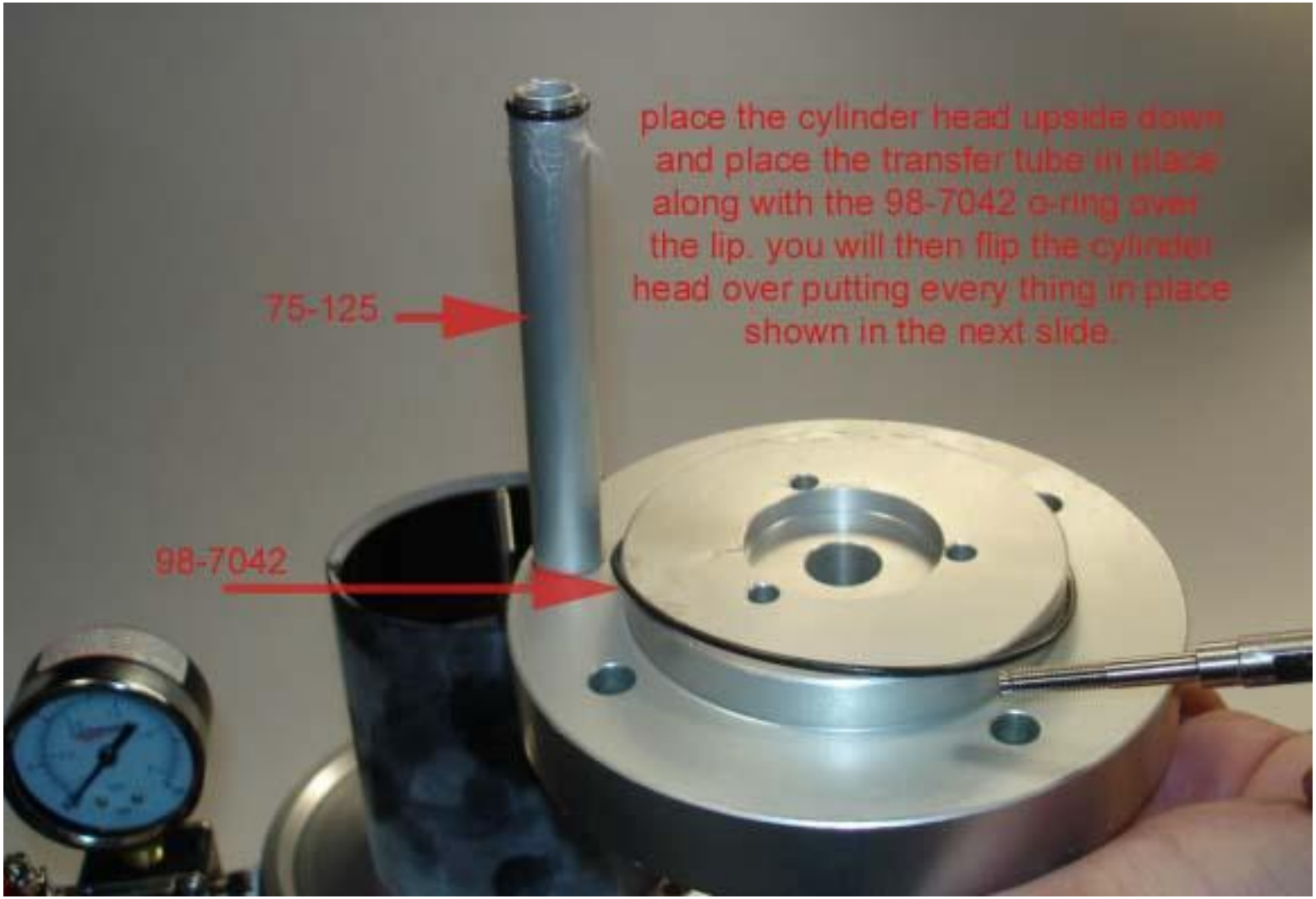

Are next steps will be putting
together the cylinder and cylinder
head part of the air motor

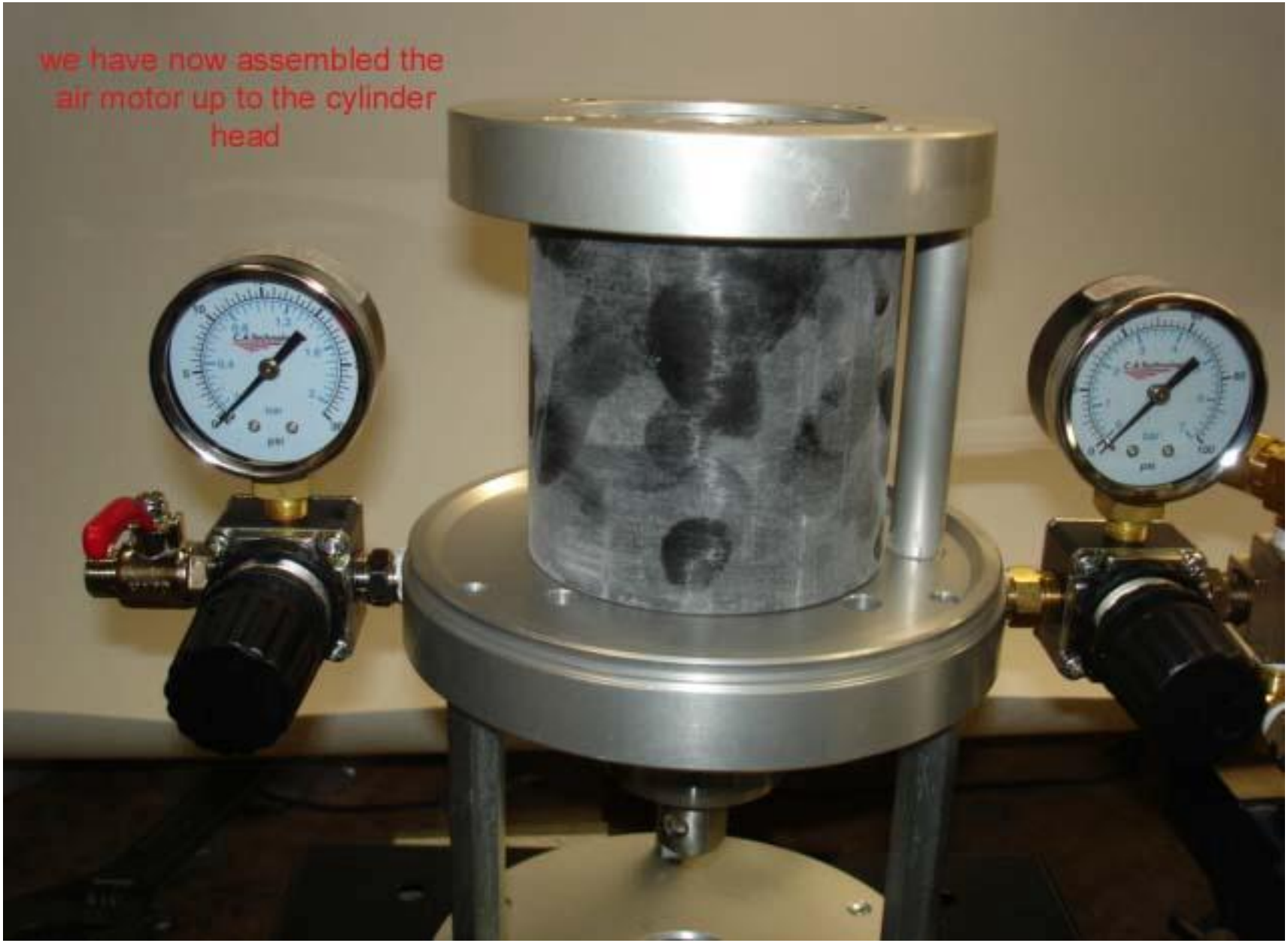

98-7042 - o-ring

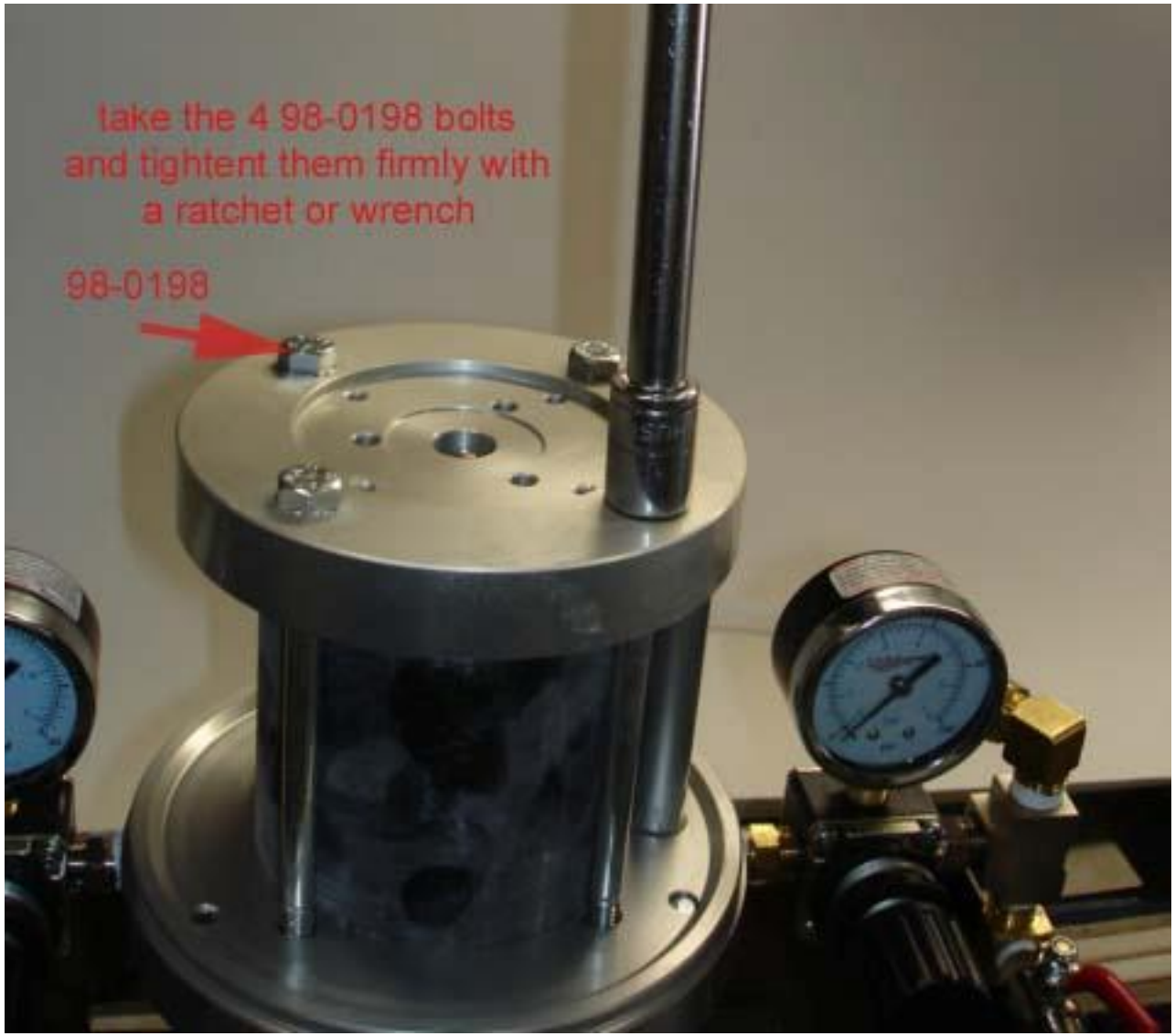

75-111


Make sure 75-111 cylinder is
completely over the 98-7042
o-ring.


98-7013
take the 75-125 transfer tube
and place the 98-7013 o-rings
on each side
75-125
98-7013

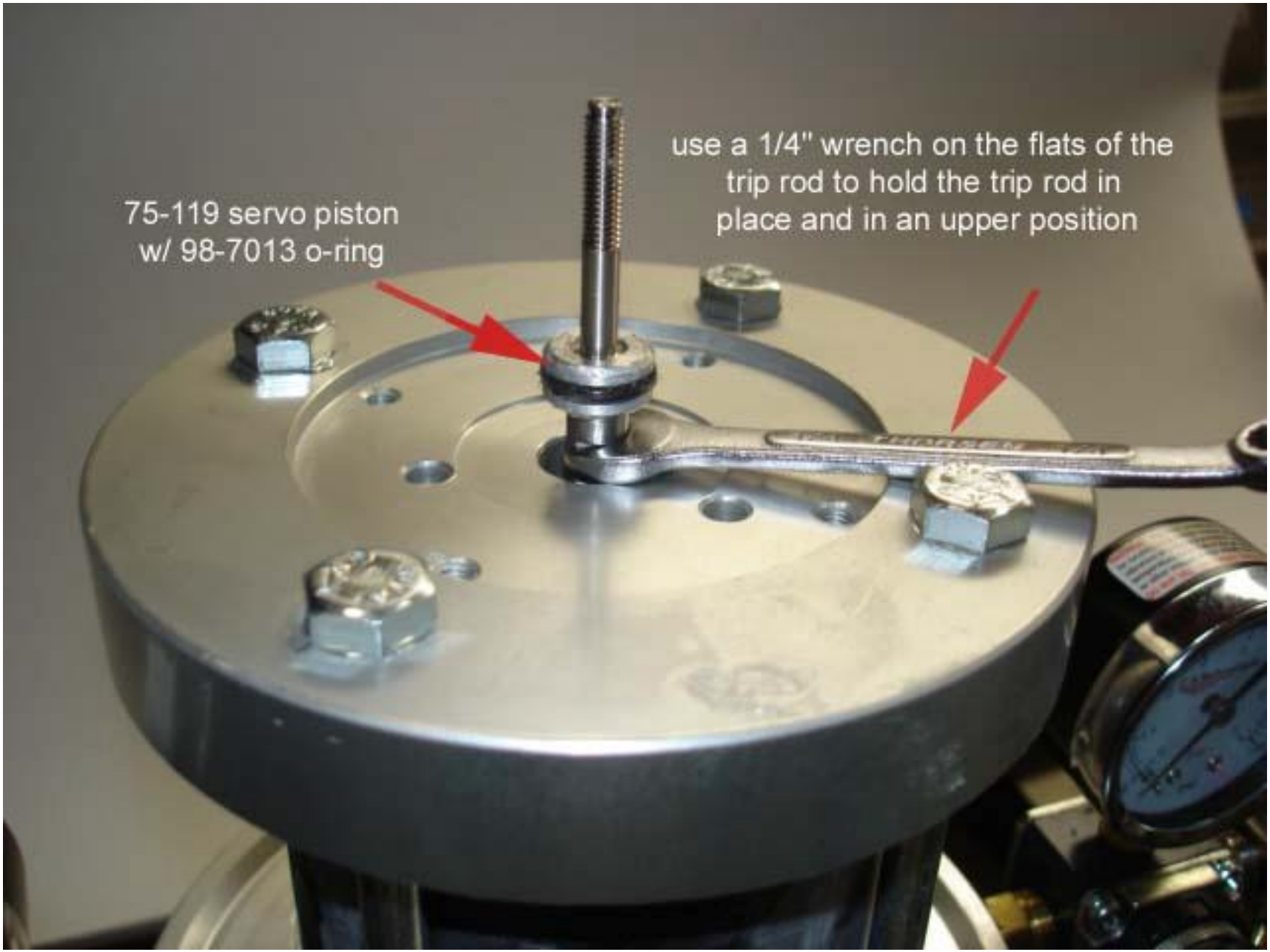

place the cylinder head upside down and place the transfer tube in place along with the 98-7042 o-ring over the lip. you will then flip the cylinder head over putting every thing in place shown in the next slide.
75-125
98-7042


we have now assembled the
air motor up to the cylinder
head


take the 4 98-0198 bolts
and tightent them firmly with
a ratchet or wrench
98-0198

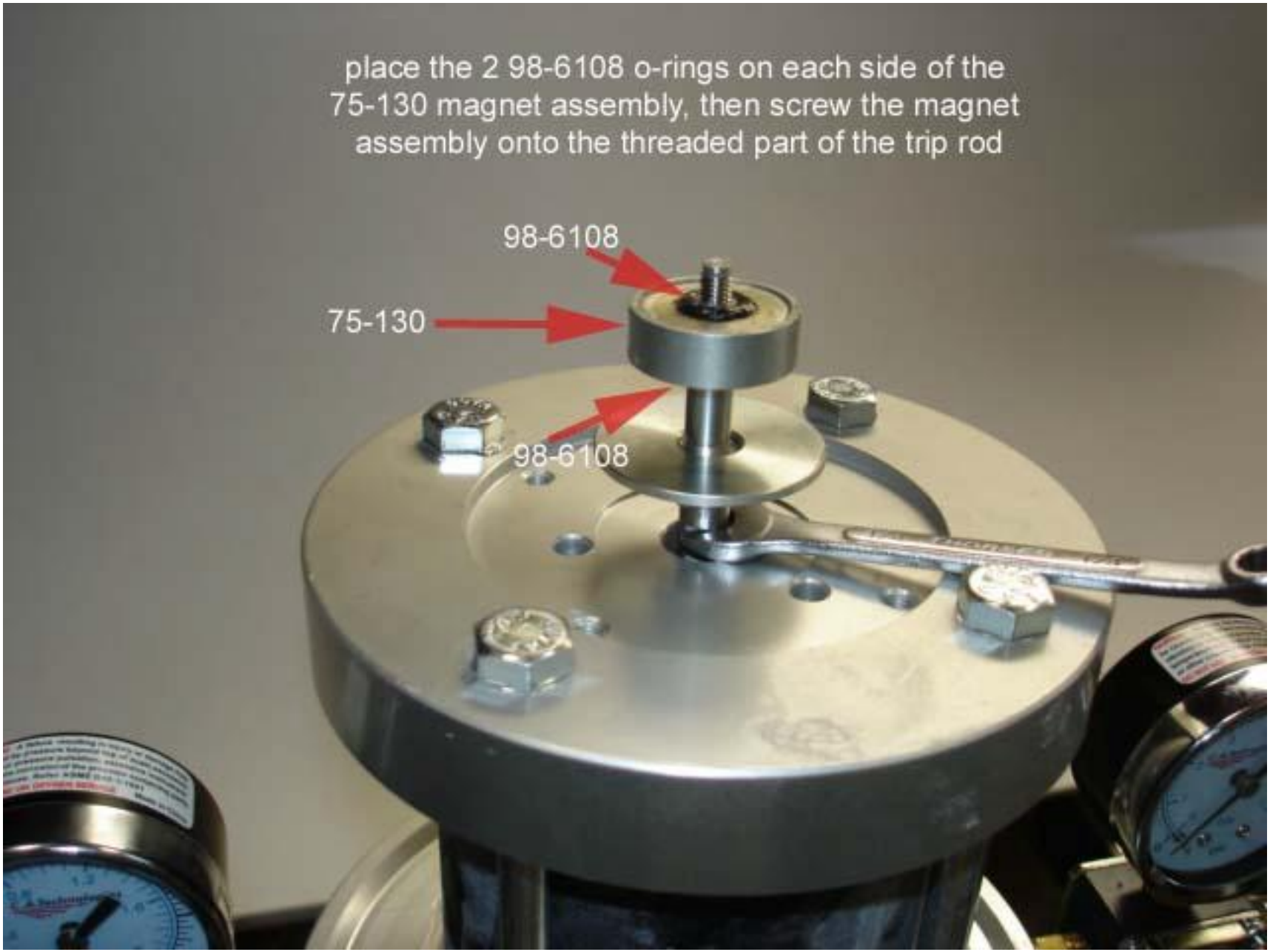

in order to work on the upper part of the air motor
we need to place the pump in the up position we accomplish
this by pushing up on the 75-116 motor rod as shown


all of the assemply of the next parts will be placed directly on
the top of the trip rod (part #75-117)


75-119 servo piston
w/ 98-7013 o-ring
use a 1/4" wrench on the flats of the
trip rod to hold the trip rod in
place and in an upper position

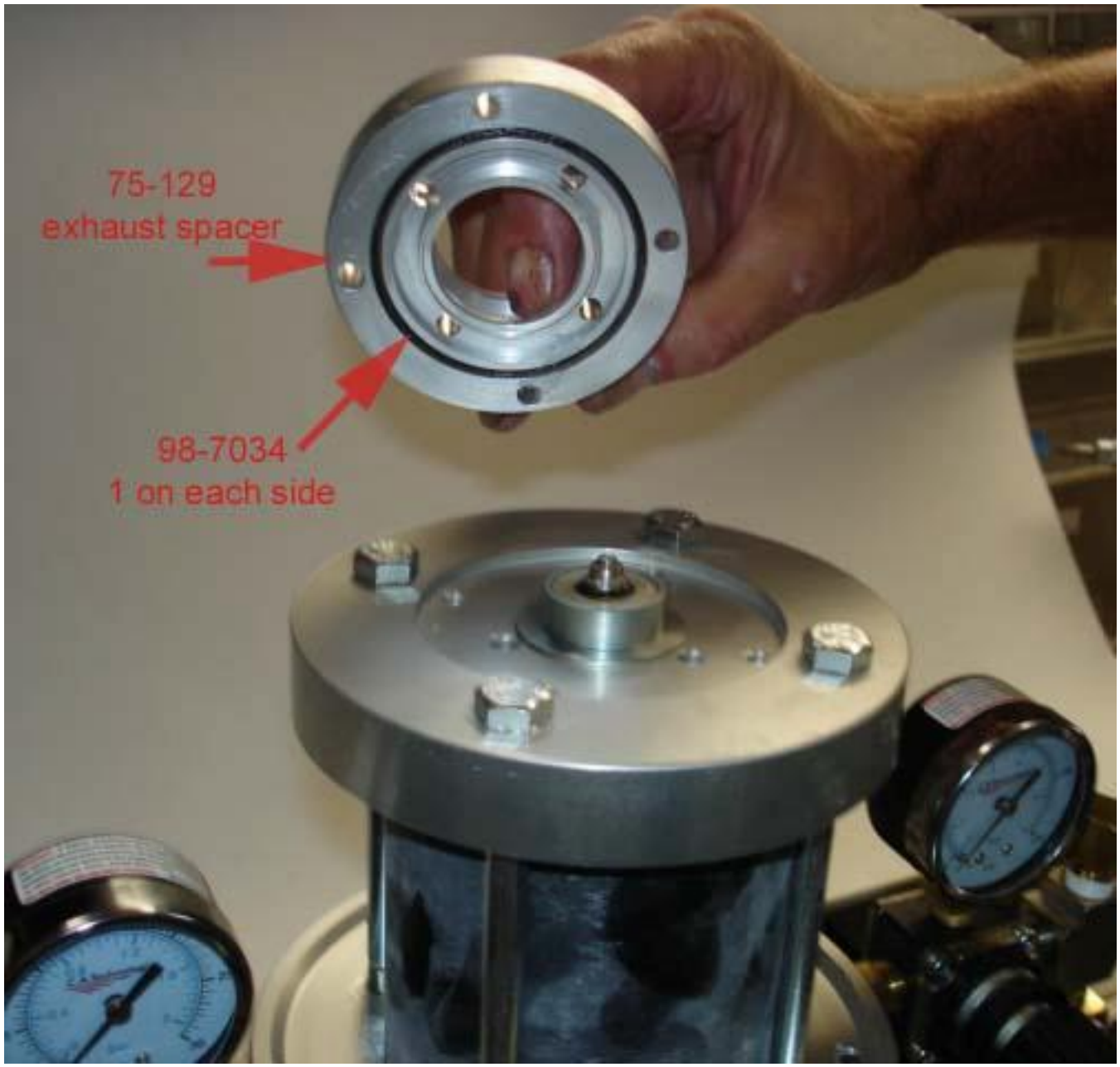

75-134 spacer

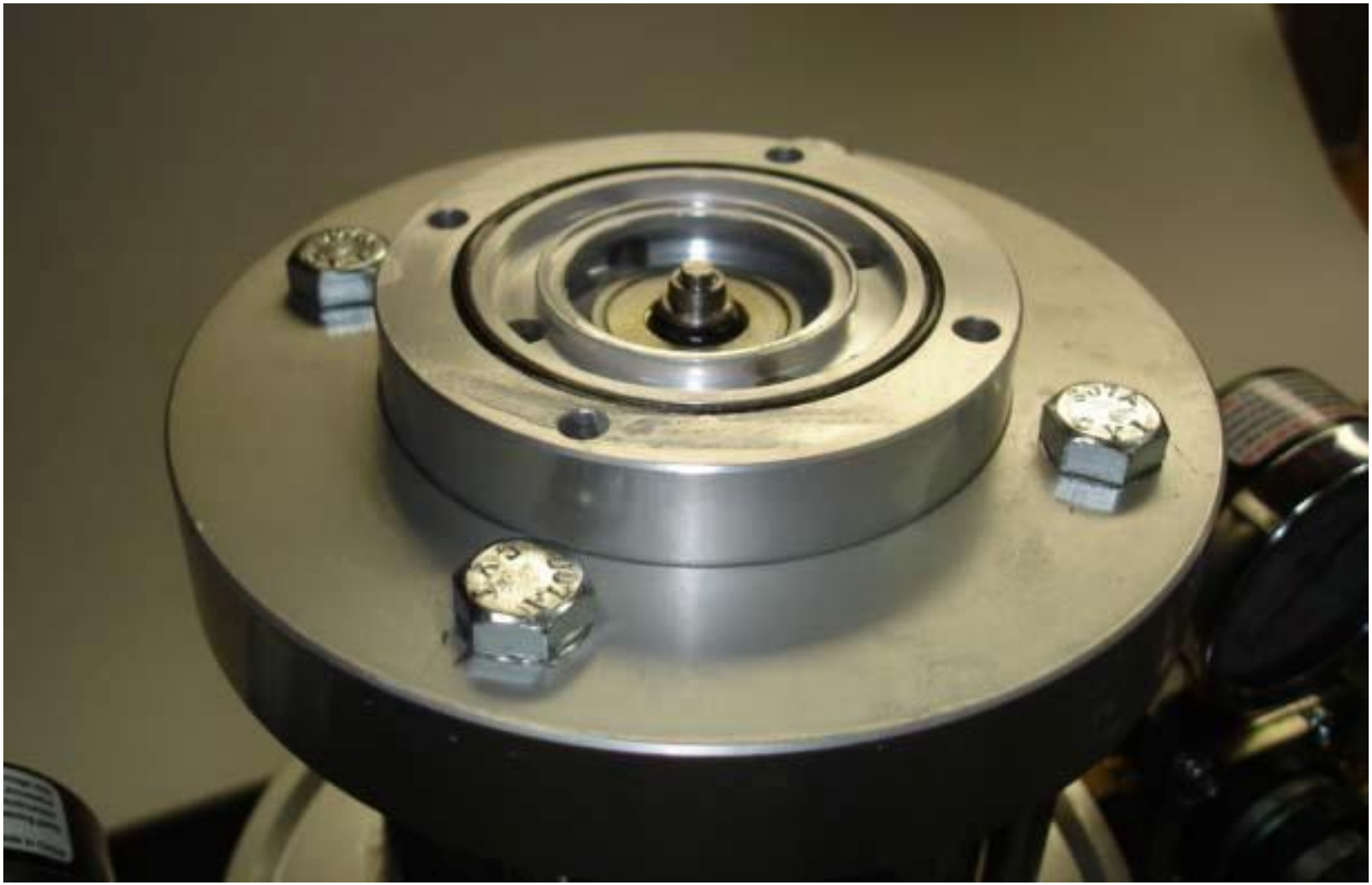

slide on 1 of the 75-133 valve plates


place the 2 98-6108 o-rings on each side of the 75-130 magnet assembly, then screw the magnet assembly onto the threaded part of the trip rod
98-6108
75-130
98-6108


98-0196
aircraft nut


with a second 1/4" wrench, tighten
down the aircraft nut
so that it is snug against the
o-ring of the magnet assy


75-129
exhaust spacer
98-7034
1 on each side




75-133 valve plate
(2 of 2)


Tighten down exhaust cap with
98-0197 allen bolts
75-115
exhaust cap

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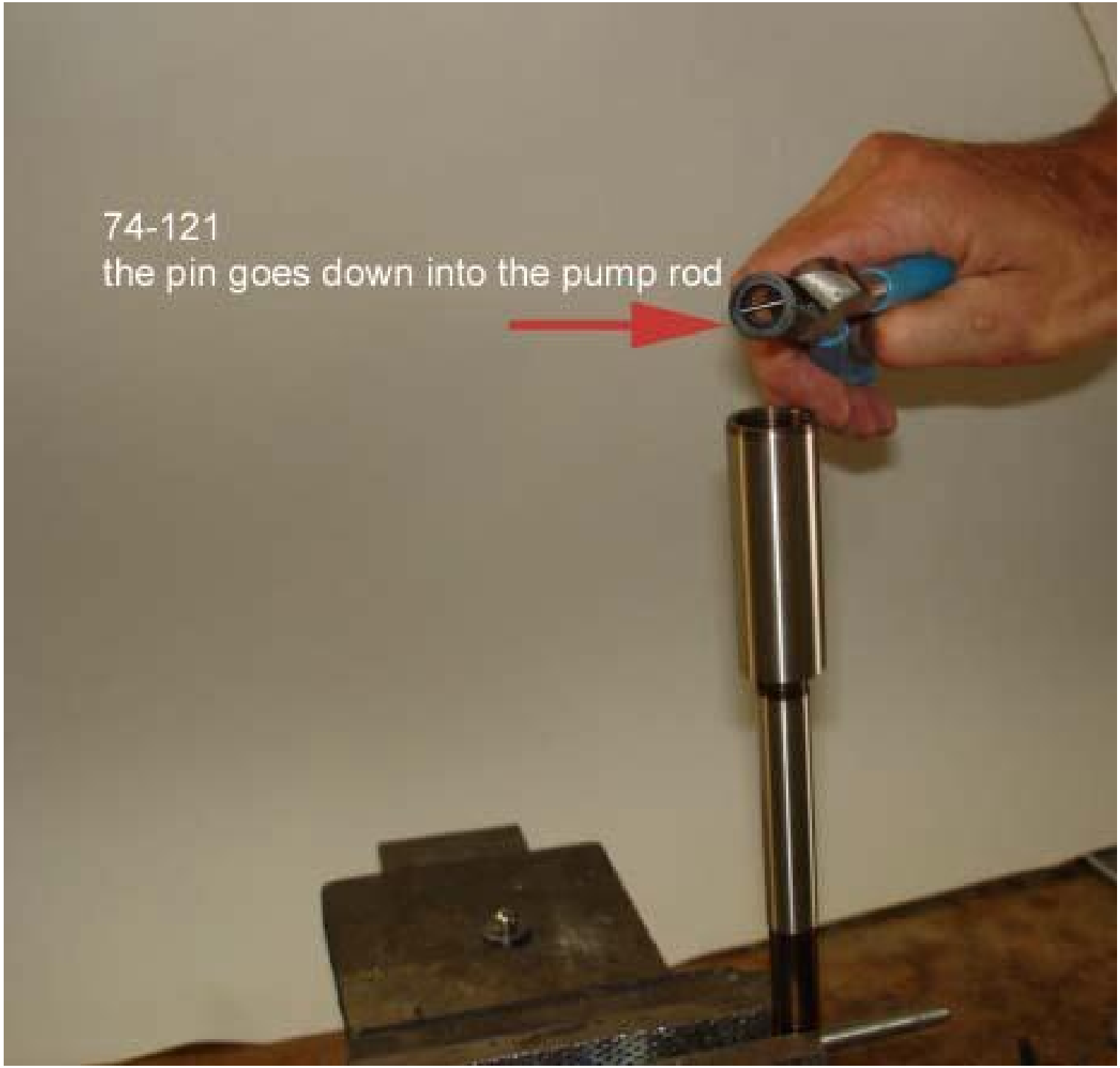
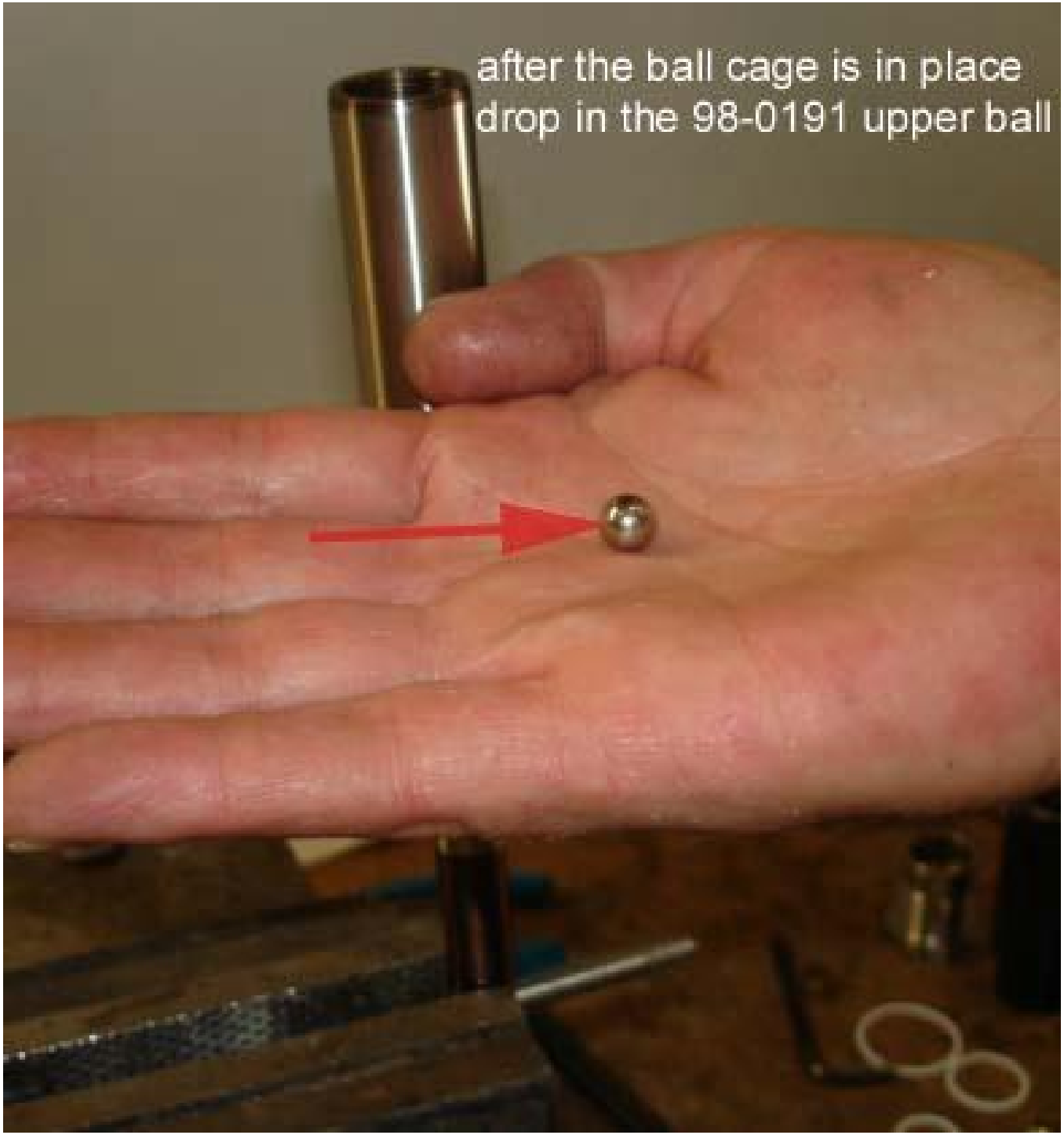
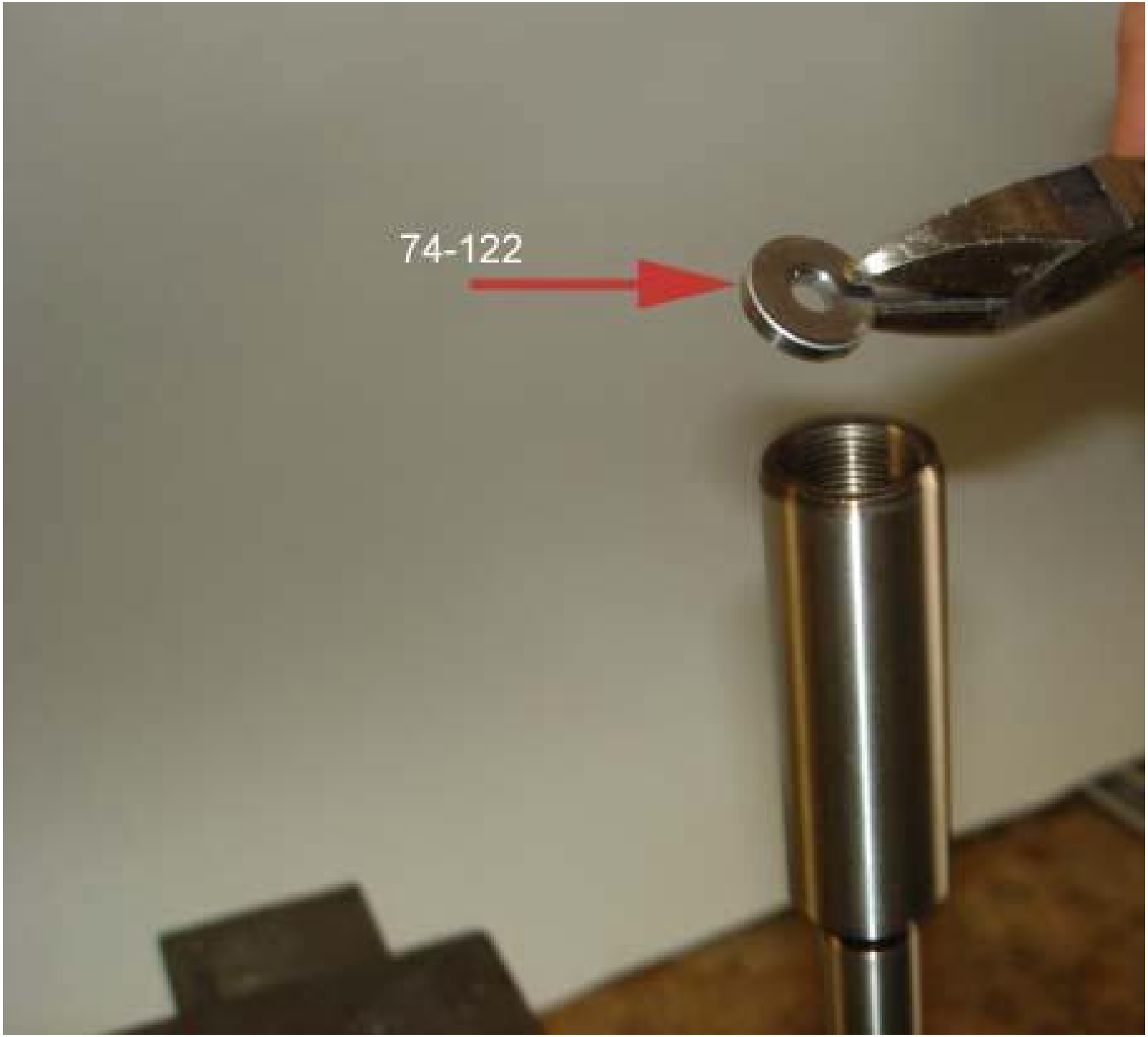
Fluid section part 1
Pump rod and Upper Ball cage


we will now assemble the upper ball cage of the AAA the upper ball cage is located in the bottom of the pump rod part # 74-126. we will turn the pump rod upside down to assemble.
75-126
pump rod


74-121
the pin goes down into the pump rod


after the ball cage is in place
drop in the 98-0191 upper ball


74-122


74-120
74-124
gasket
place the 74-122 gasket onto the flat part of the
74-120 seat retainer and screw into the pump rod
make sure all pieces that you put in before hand are
in straight and lined up correctly

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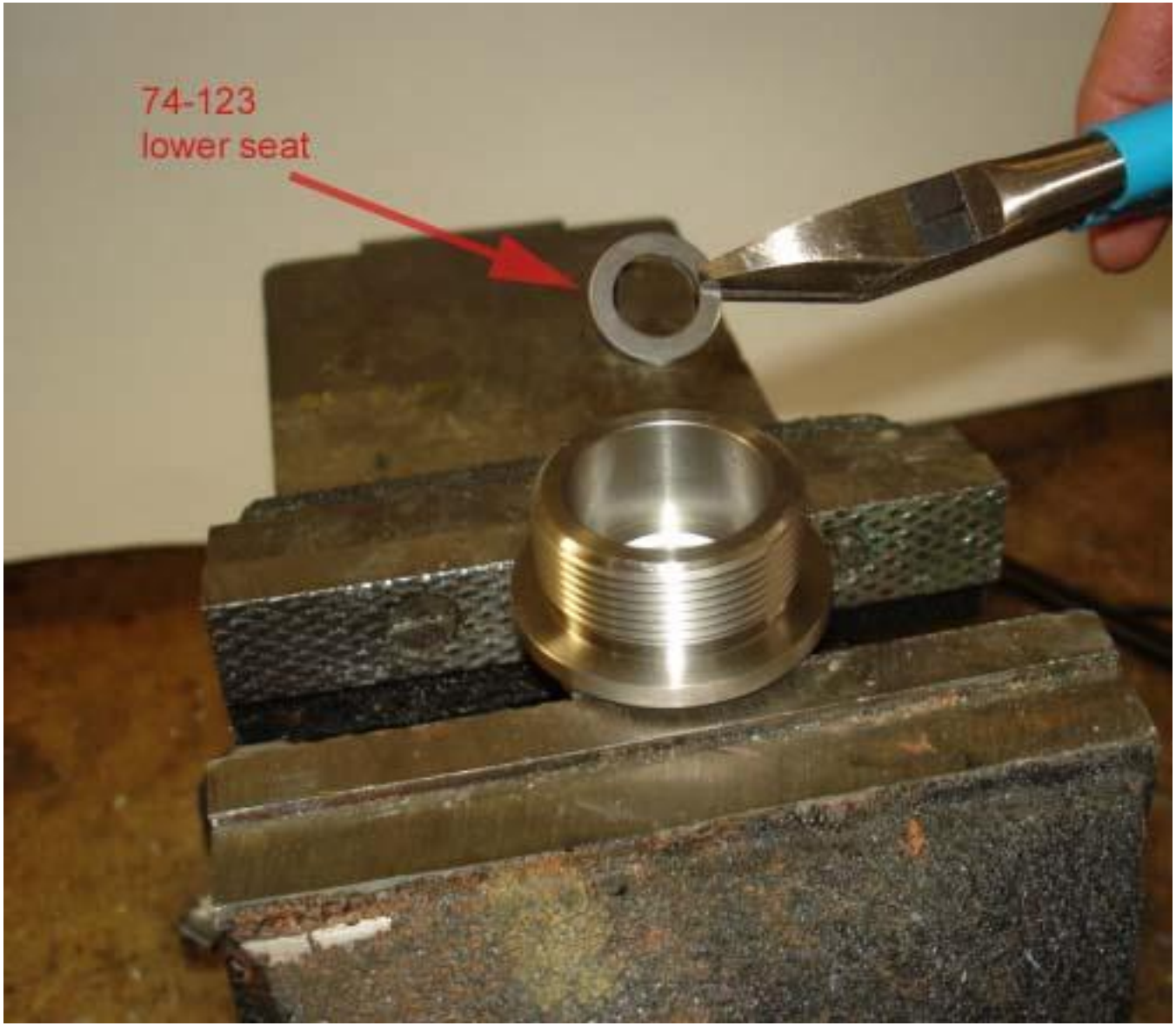
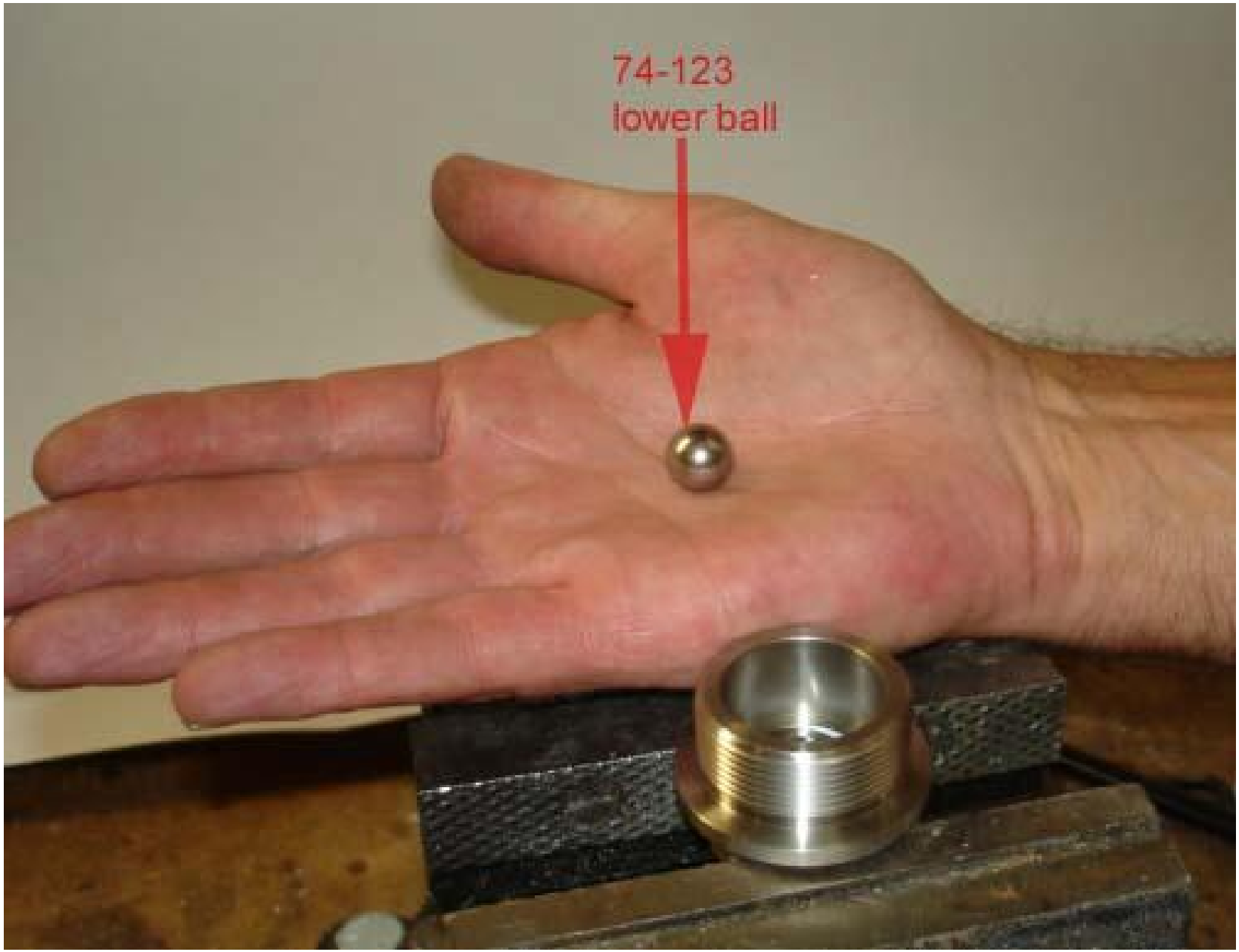
Fluid Section Part 2
Lower Ball Cage


With the pump rod assembled we will now start assembling the fluid section of the pump. place the 74-118 in a vice if possible because we will be assembling the fluid section from this point up.
74-118

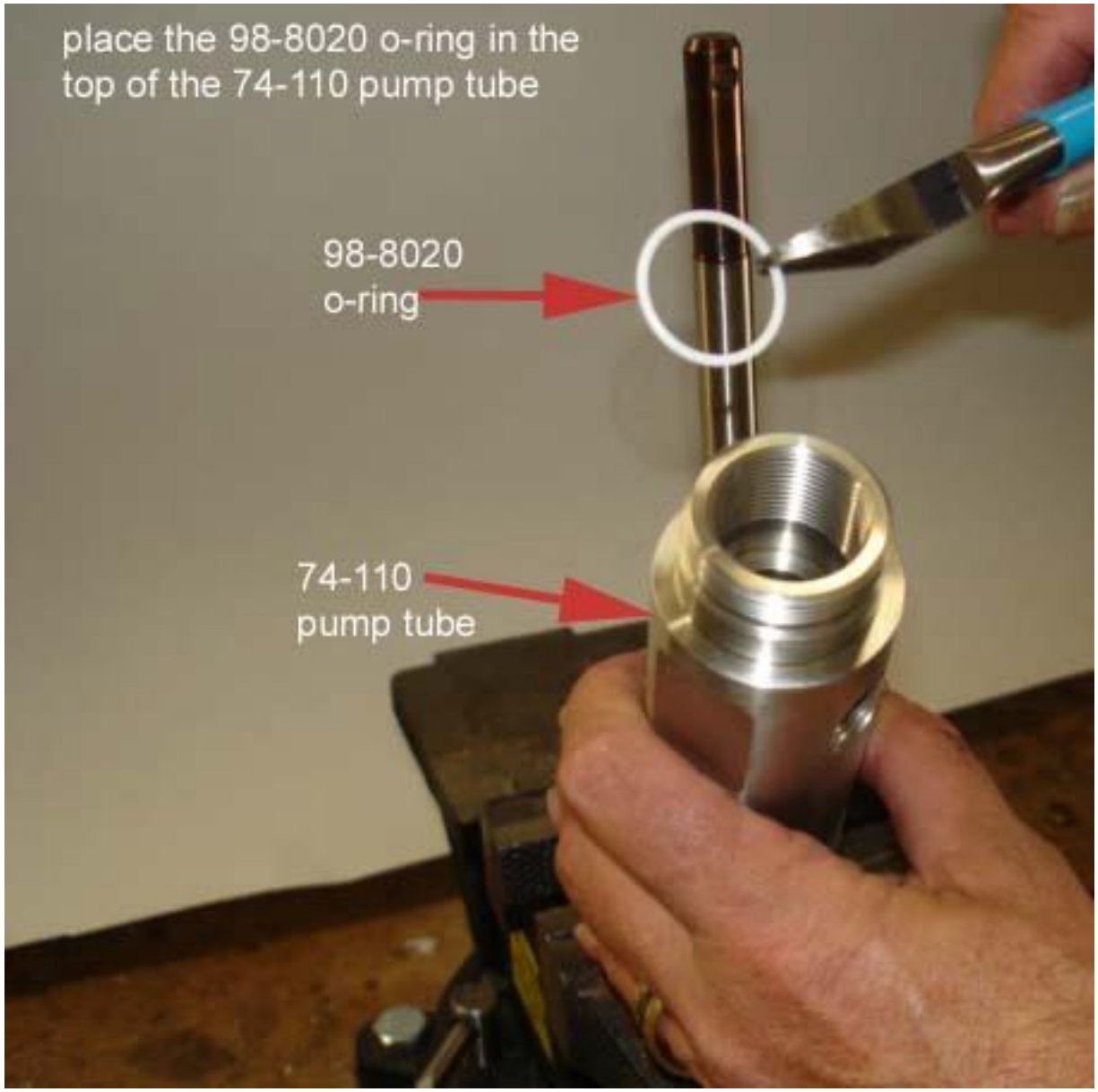

74-123
lower seat


74-123
lower ball


74-130
seal/guide
assy - lower


once the lower seal is in
place we can now slide the pump
rod into the upper part of the guide
as shown


place the 98-8025 o-ring in the
bottom of the pump tube 74-110
98-8025
o-ring
74-110
pump tube

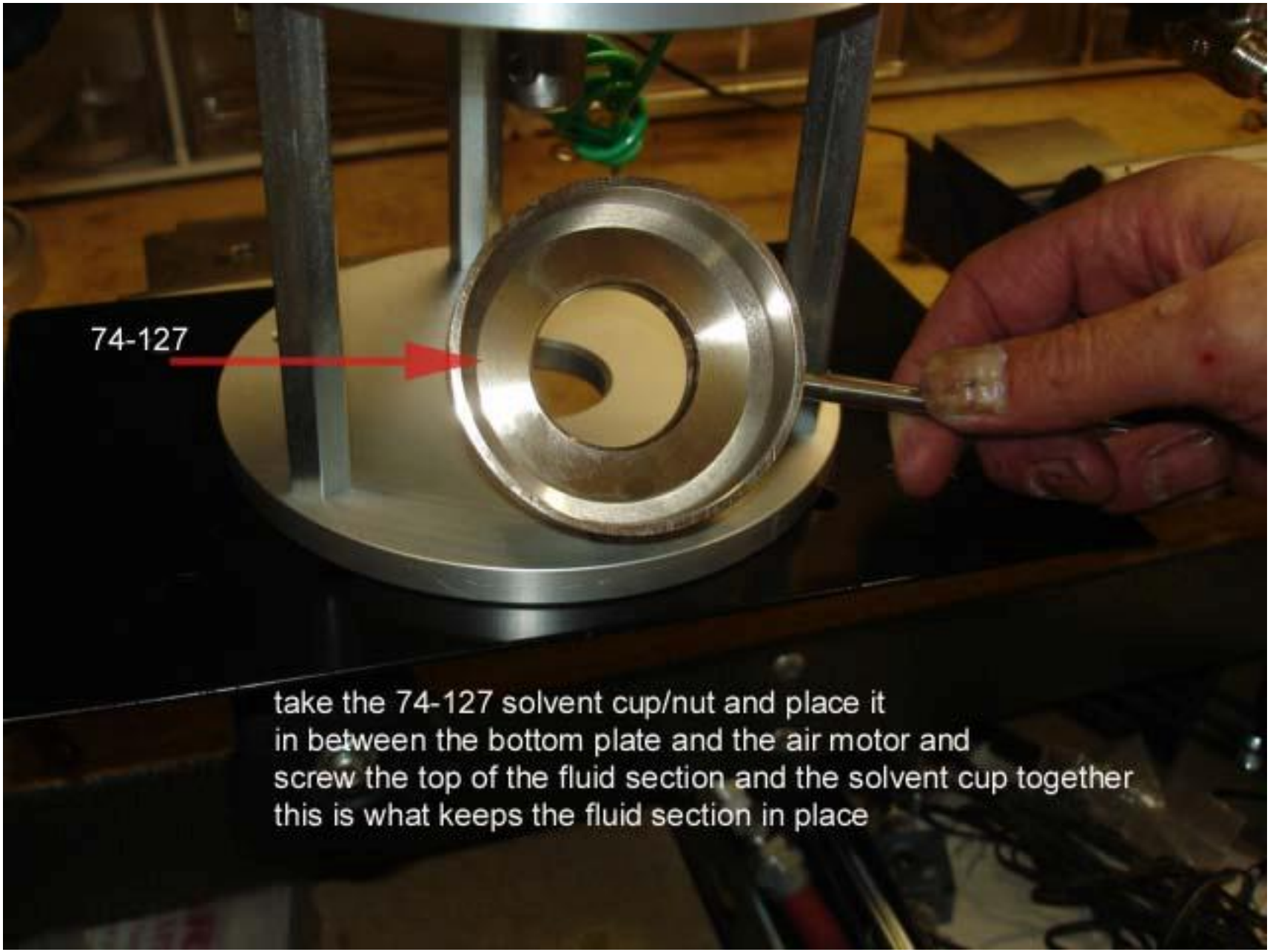

place the 98-8020 o-ring in the top of the 74-110 pump tube
98-8020 o-ring
74-110 pump tube

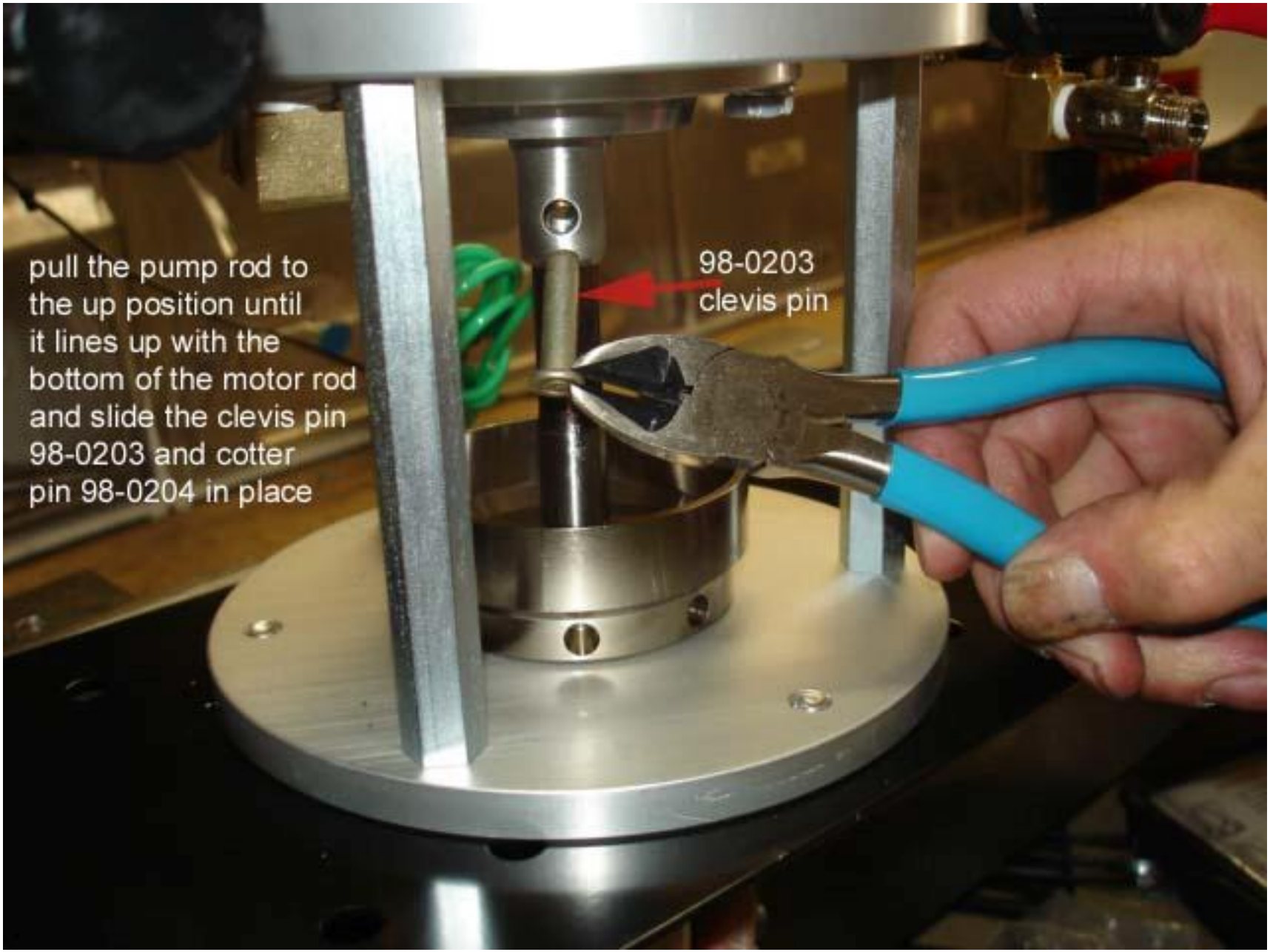

place the pump tube over the pump rod assembly
and tighten down

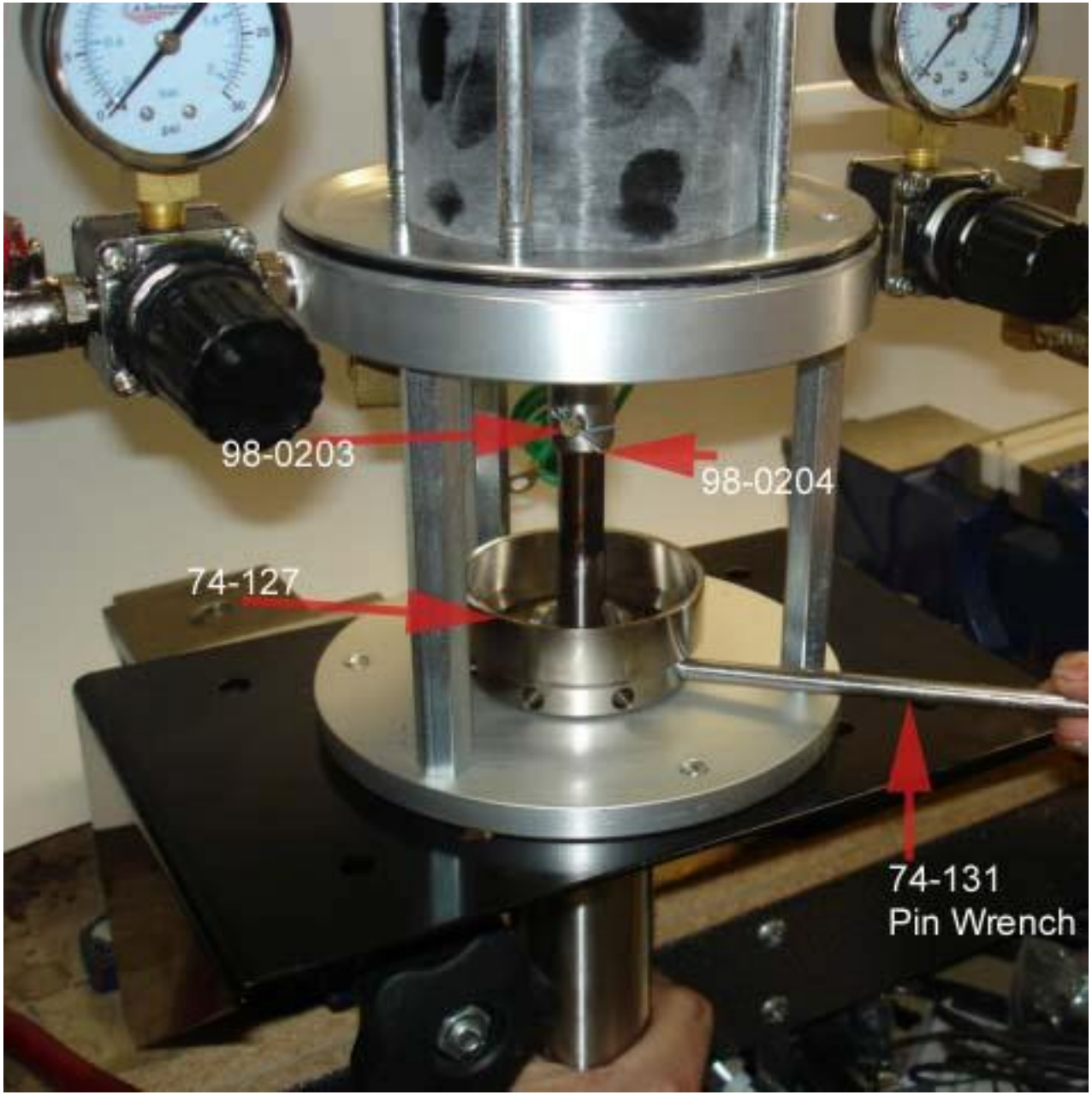

make sure the seal is
placed as shown with the
u-cup tward the pump rod
74-111
packing nut
74-125
upper seal guide assy


screw down the packing nut
and tighten down


98-7125
o-ring


74-127
take the 74-127 solvent cup/nut and place it
in between the bottom plate and the air motor and
screw the top of the fluid section and the solvent cup together
this is what keeps the fluid section in place


pull the pump rod to the up position until it lines up with the bottom of the motor rod and slide the clevis pin 98-0203 and cotter pin 98-0204 in place
98-0203
clevis pin


98-0203
98-0204
74-127
74-131
Pin Wrench


put on the cover and screw in the allen bolt and the pump is now finished and ready for testing
98-0189
75-123
C.A.Technologies
USA


Finished C14 AAA Pump
C.A.Technologies
USA