Operation

GLASCRAFT
COMPOSITES EQUIPMENT BY GRACO

Indy

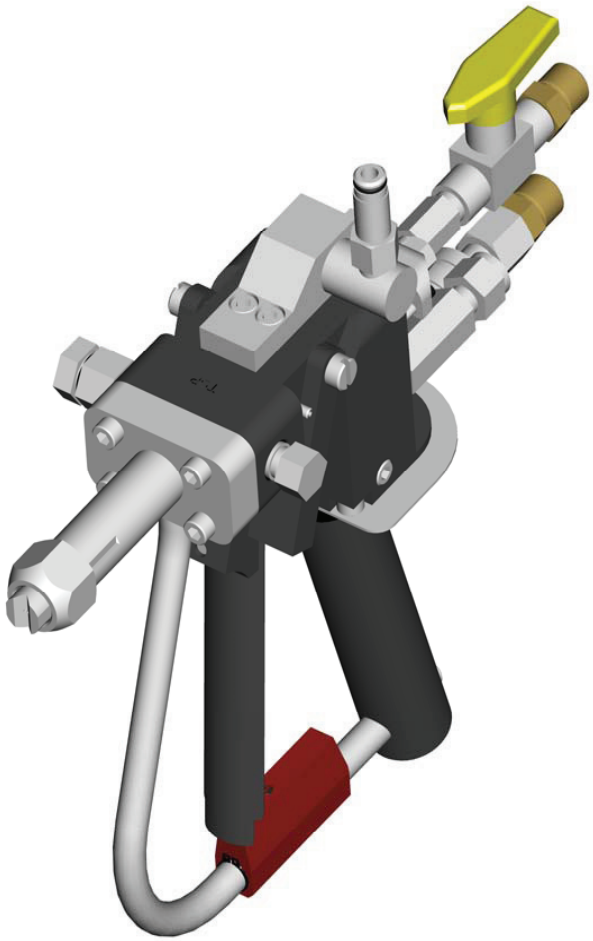
GC-1306T
EN

Internal-Mix Low Emission Dispense Gun
For use with Polyester Resin, and Gel-Coat. For professional use only.

Maximum fluid working pressure:
2000 psi (14 MPa, 138 bar)

Maximum air pressure:
100 psi (0.7 MPa, 7 bar)

Important Safety Instructions
Read all warnings and instructions in this manual. Save these instructions.



CE Ex II 2 G

Contents

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.

- **See Important Safety Information - MEKP, Polyester Resins and Gel-Coats and Spraying and Lamination Operations section of this manual.**

WARNING

FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. To help prevent fire and explosion:

- Use equipment only in well ventilated area.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the work area. See **Grounding** instructions.
- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.

PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing protection

TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read MSDS's to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.
- Always wear impervious gloves when spraying or cleaning equipment.

Warnings

WARNING



SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the dispense outlet.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Engage trigger lock when not spraying.
- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.

MOVING PARTS HAZARD

Moving parts can pinch or amputate fingers and other body parts.

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.
- Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the **Pressure Relief Procedure** in this manual. Disconnect power or air supply.

EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.

PRESSURIZED ALUMINUM PARTS HAZARD

Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.

Important Safety Information

Methyl Ethyl Ketone Peroxide (MEKP)

MEKP is among the more hazardous materials found in commercial channels. Proper handling of the “unstable (reactive)” chemicals presents a definite challenge to the plastics industry. The highly reactive property which makes MEKP valuable to the plastics industry in producing the curing reaction of polyester resins and gel-coats also produces the hazards which require great care and caution in its storage, transportation, handling, processing and disposal.

Workers must be thoroughly informed of the hazards that may result from improper handling of MEKP, especially in regards to contamination and heat. They must be thoroughly instructed regarding the proper action to be taken in the storage, use and disposal of MEKP and other hazardous materials used in the laminating operation.

MEKP is flammable and potentially explosive, as well as potentially damaging to the eyes and skin.
Read material manufacturer’s warnings and material MSDS to know specific hazards and precautions related to MEKP.

Contaminated MEKP can become explosive. Prevent contamination of MEKP with other materials, which includes, but is not limited to polyester overspray, polymerization accelerators and promoters, and non-stainless metals. Even small amounts of contaminates can make MEKP explosive. This reaction may start slowly, and gradually build-up heat, which can accelerate until fire or an explosion result. This process can take from seconds to days.

Heat applied to MEKP, or heat build-up from contamination reactions can cause it to reach what is called its Self-Accelerating Decompisition Temperature (SADT), which can cause fire or explosion.

Spills should be promptly removed, so no residues remain. Spillage can heat up to the point of self-ignition. Dispose in accordance with manufacture’s recommendation.

Store MEKP in a cool, dry and well-ventilated area in the original containers away from direct sunlight and away from other chemicals. It is strongly recommended that the storage temperature remain below 86° F (30° C). Heat will increase the potential for explosive decomposition. Refer to NFPA 432.
Keep MEKP away from heat, sparks and open flames.

Current catalysts are premixed and do not require any diluents. GlasCraft strongly recommends that diluents not be used. Diluants add to the possibility of contaminates entering the catalyst system. Never dilute MEKP with acetone or any solvent since this can produce an extremely shock-sensitive compound which can explode.

Use only original equipment or equivalent parts from GlasCraft in the catalyst system (i.e.: hoses, fittings, etc.) because a hazardous chemical reaction may result between substituted parts and MEKP.

To prevent contact with MEKP, appropriate personal protective equipment, including chemically impermeable gloves, boots, aprons and goggles are required for everyone in the work area.

Polyester Resins and Gel-Coats

Spraying materials containing polyester resin and gel-coats creates potentially harmful mist, vapors and atomized particulates. Prevent inhalation by providing sufficient ventilation and the use of respirators in the work area.

Read the material manufacturer’s warnings and material MSDS to know specific hazards and precautions related to polyester resins and gel-coats.

To prevent contact with polyester resins and gel-coats, appropriate personal protective equipment, including chemically impermeable gloves, boots, aprons and goggles are required for everyone in the work area.

Spraying and Lamination Operations

Remove all accumulations of overspray, FRP sandings, etc. from the building as they occur. If this waste is allowed to build up, spillage of catalyst is more likely to start a fire.

If cleaning solvents are required, read material manufacture’s warnings and material MSDS to know specific hazards and precautions. (GlasCraft recommends that clean-up solvents be nonflammable.)

GlasCraft recommends that you consult OSHA Sections 1910.94, 1910.106, 1910.107 and NFPA No. 33, Chapter 16,17, and NFPA No. 91 for further guidance.

Grounding

This equipment needs to be grounded.

Ground the dispense gun through connection to a GlasCraft approved grounded fluid supply hose.

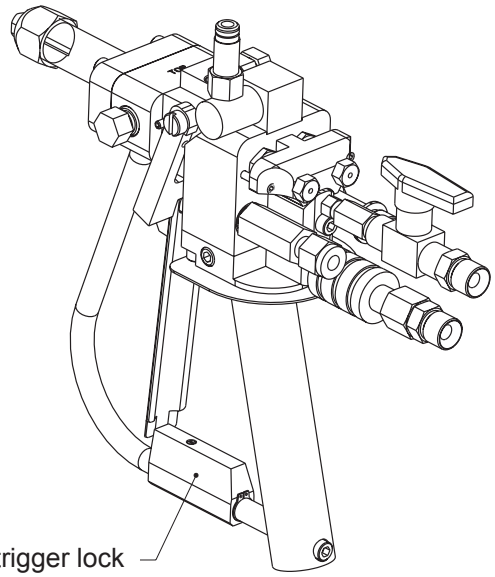
Check your local electrical code and related manuals for detailed grounding instructions of all equipment in the work area.

A grounding wire and clamp are provided, assembly p/n 17440-00 with all FRP equipment.

Set-Up

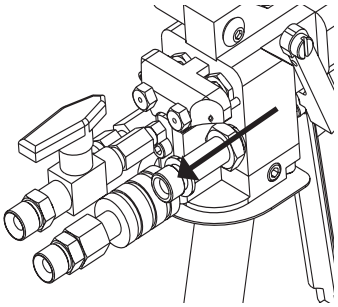
Hose Attachment

1. Engage the trigger lock.

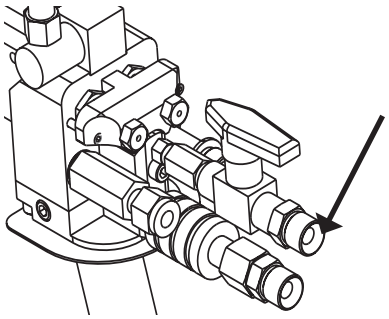


Rotate trigger lock to stop the trigger from being activated.

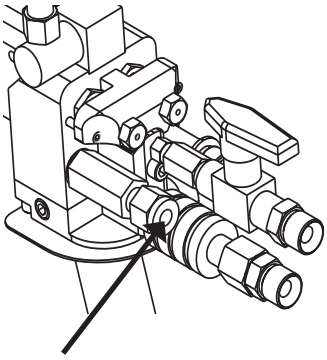
2. Attach the (black p/n 21694-25) material hose to the material inlet fitting on the back of the gun.



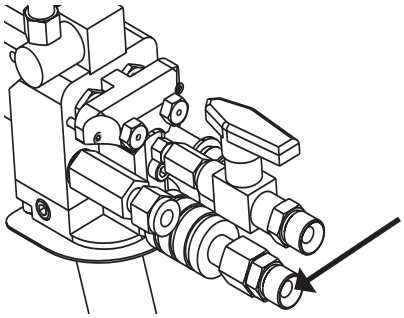
3. Attach the (yellow p/n 236) solvent line to the solvent inlet fitting on the back of the gun.



4. Attach the (stainless steel p/n 20190-00) catalyst hose to the catalyst inlet fitting on the back of the gun.



5. If the optional fiberglass roving chopper is being used, attach the “red” chopper air line to the chopper air inlet fitting on the back of the gun.



Parts

Indy Dispense Gun 23550-00

Standard Equipment	
Part Number	**Description**
23550-00	Indy DISPENSE GUN
GC-1306	USER MANUAL

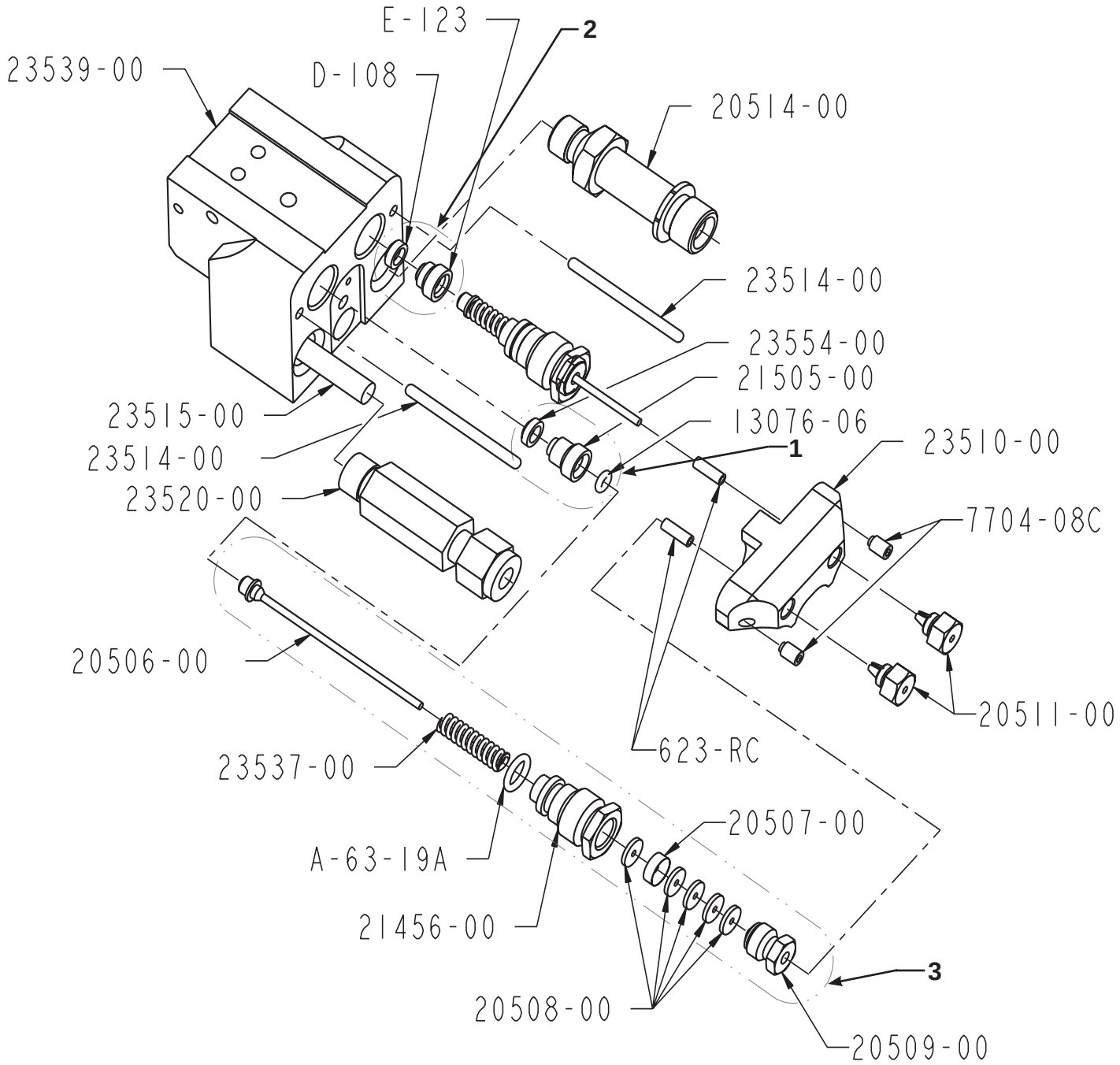
Repair Parts Kits:

23530-00 Complete Rebuild Kit		
Part Number	**Description**	**Qty.**
A-63-19A	O-RING	1
E-135	MATERIAL SEAT	1
13867-07	O-RING	2
19407-01	NYLON WASHER	1
20506-00	MATERIAL NEEDLE	2
20507-00	PACKING RETAINER	2
23046-00	SPRAY TIP SPACER	1
23519-00	MIX BLOCK SPACER	1
23524-02	COMPRESSION SPRING	1
23525-01	LOCK NUT	1
23537-00	VALVE NEEDLE SPRING	2
23538-00	REPAIR KIT	1
23544-00	SEAT RETAINER	1
623-RC	TUBING	1 FT.

23538-00 Maintenance Kit		
Part Number	**Description**	**Qty.**
A-63-19A	O-RING	2
A-78	VALVE SEAT	1
CC-116	O-RING	2
CJ-136	O-RING	1
CJ-137	O-RING	1
13076-06	O-RING	3
13867-03	O-RING	1
13867-05	O-RING	1
13867-07	O-RING	2
13867-09	O-RING	3
13867-10	O-RING	3
20508-00	MATERIAL DISK PACKING	10
20634-01	MIXING ELEMENT	1
21044-02	O-RING	1
23519-00	MIX BLOCK SPACER	1
16J757	NYLON WASHER	2

Parts

23550-00 Indy Dispense Gun



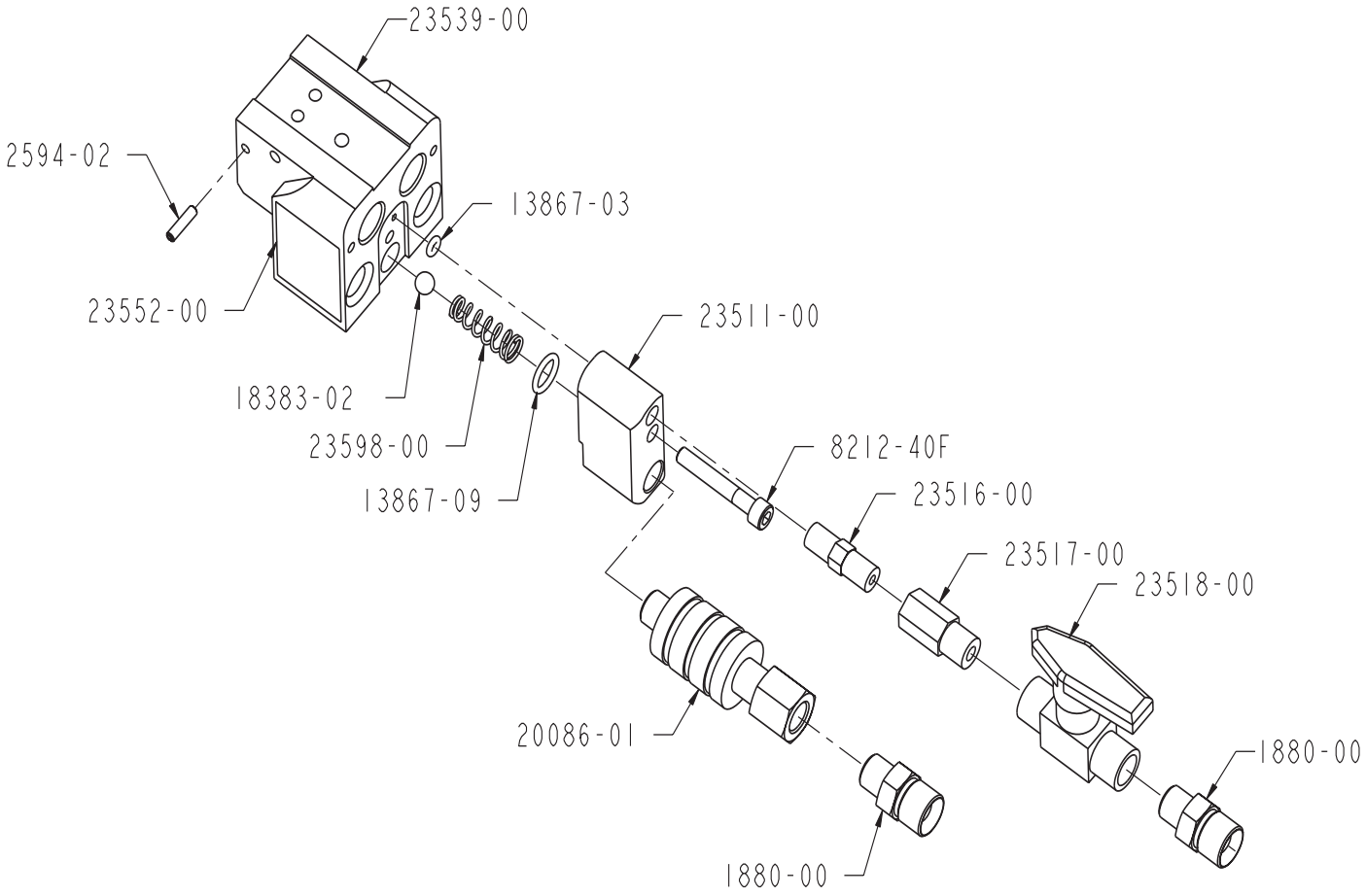
1) Catalyst seat assembly p/n: 23544-00

2) Material seat assembly p/n: E-135

3) Material needle valve assembly p/n: 23545-00

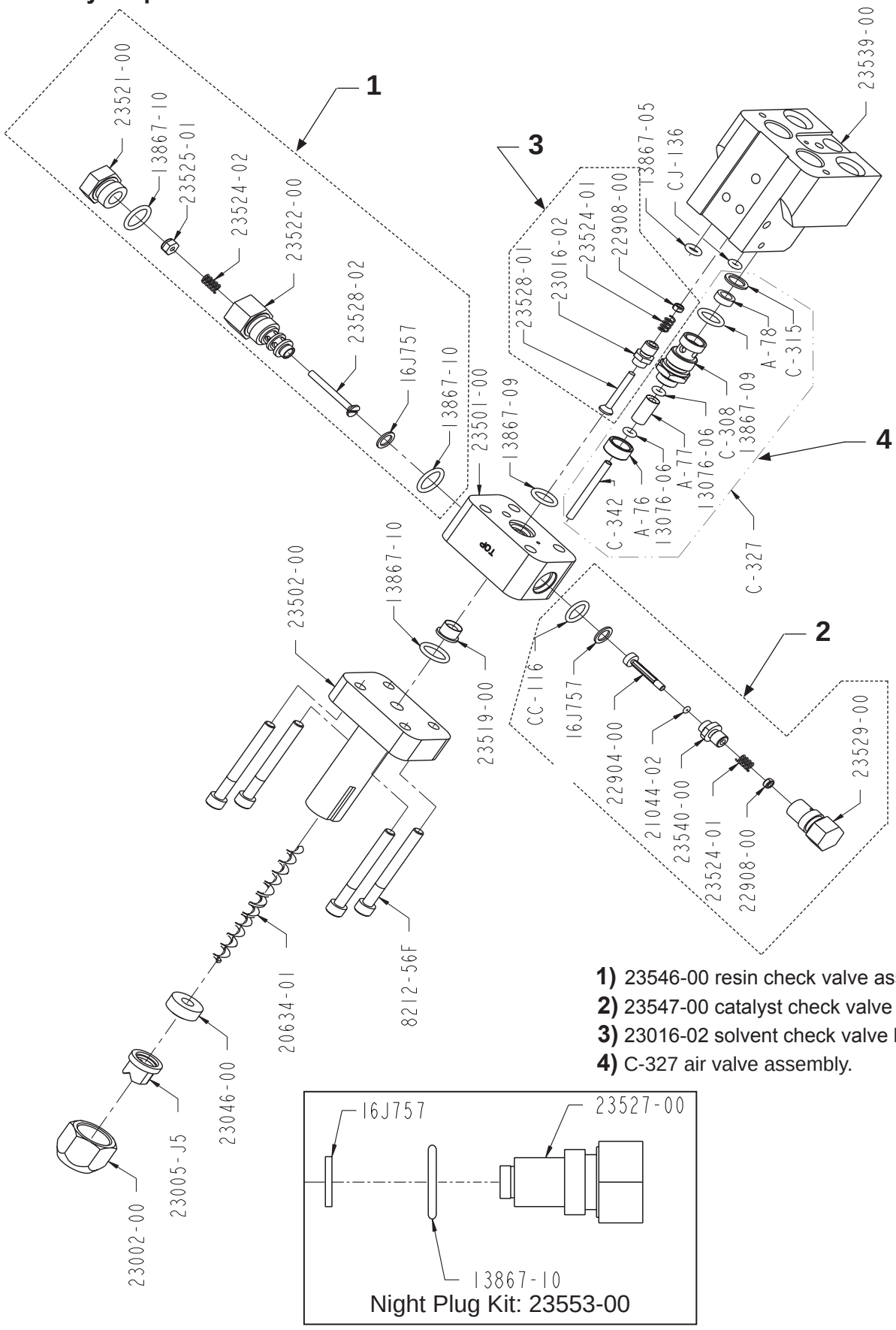
Parts

23550-00 Indy Dispense Gun



Parts

23550-00 Indy Dispense Gun

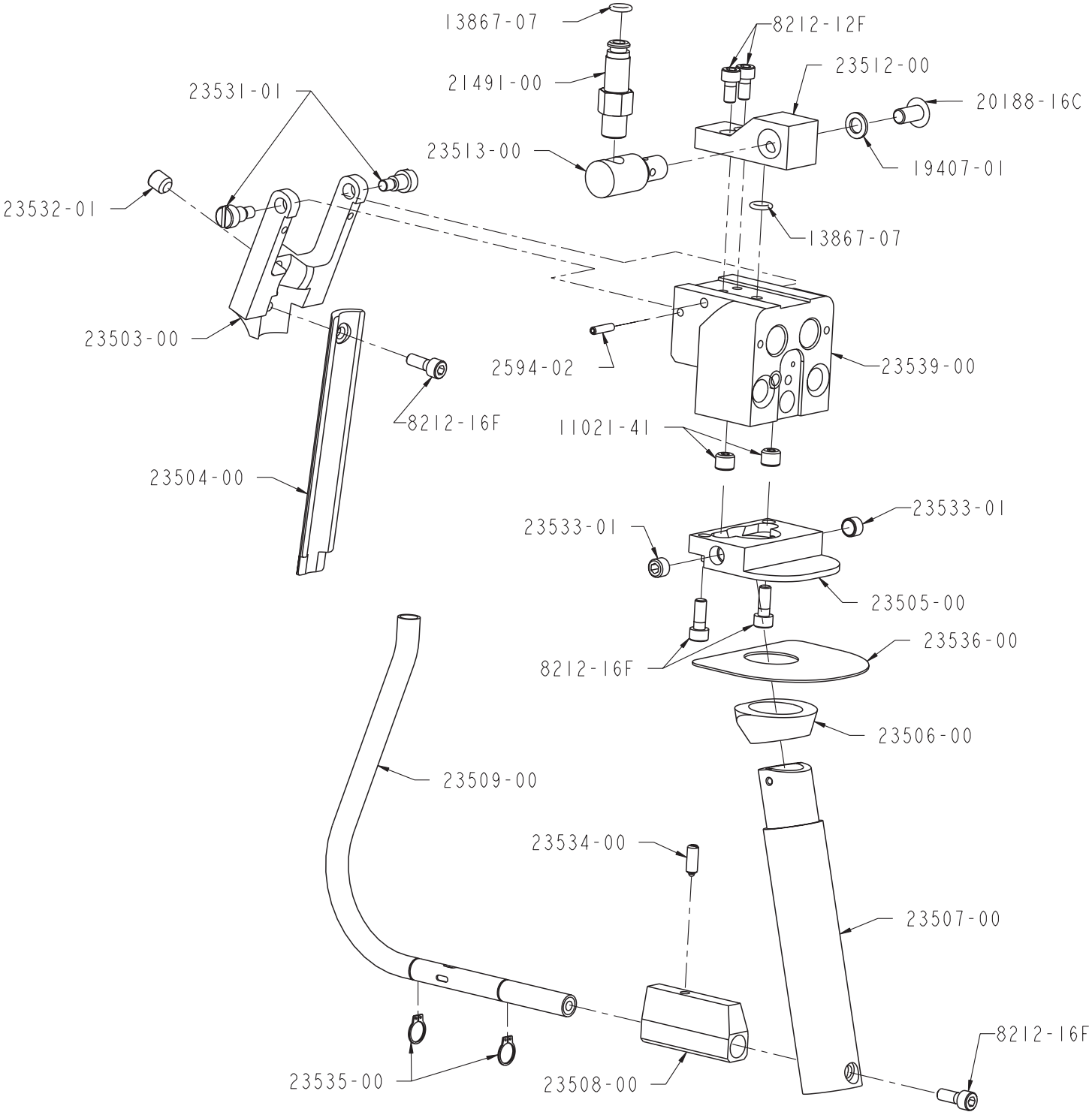


1) 23546-00 resin check valve assembly.
2) 23547-00 catalyst check valve assembly.
3) 23016-02 solvent check valve body.
4) C-327 air valve assembly.

Night Plug Kit: 23553-00

Parts

23550-00 Indy Dispense Gun



Parts

23550-00 Indy Dispense Gun

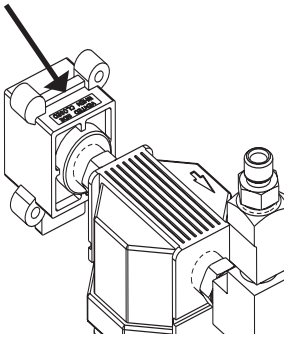
Part	Description	Qty
11021-41	PLUG,PIPE,SOC,1/16,SST	2
13076-06	O-RING,PTFE,2-006	3
13867-03	O-RING,EPR,2-006	1
13867-05	O-RING,EPR,2-008	1
13867-07	O-RING,EPR,2-010	2
13867-09	O-RING,EPR,2-012	3
13867-10	O-RING,EPR,2-013	4
15845-01	TOOL,DRIVER,BALL,5/32	1
18383-02	BALL,1/4 DIA,302 SST	1
1880-00	FITTING,HOSE	2
19407-01	WASHER,NYLON	1
20086-01	VALVE,SLIDE,1/8 X 1/8	1
20188-16C	SCREW,BHDC,SS,.250-20X .500	1
20506-00	NEEDLE,MATL(ONE PIECE)	2
20507-00	RETAINER,PACKING	2
20508-00	PACKING,DISK,MATL	10
20509-00	NUT,PACKING,MATL	2
20511-00	COLLET,NEEDLE,MATL	2
20514-00	FITTING,HOSE	1
20634-01	ELEMENT,MIXING,SPIRAL 1/4	1
21044-02	O-RING,O-RING,SILICONE,2-002	1
21456-00	HOUSING,PACKING,MAT'L	2
21491-00	TUBE,PIVOT,CUTTER	1
21505-00	RETAINER,SEAT,VALVE,MATL	1
222385	TAG,WARNING	1
22904-00	STEM,VALVE,CHECK	1
22908-00	NUT,ROUND,5/32 FLATS,4-40	2
23002-00	NUT,RETAINING	1
23005-J5	TIP,SPRAY,20/50,INDY GUN,SST	1
23016-02	HOUSING,CHECK,VALVE,SOLVNT,INDY2	1
23046-00	SPACER,TIP,SPRAY,INDY-GUN	1
23501-00	BLOCK,MIX,INDY 2	1
23502-00	HOUSING,FRONT,GUN	1
23503-00	TRIGGER,GUN,INDY 2	1
23504-00	HANDLE,PULL,TRIGGER	1
23505-00	RESISTOR,REST,HANDLE,GUN	1
23506-00	ADAPTER,HANDLE,INDY 2	1
23507-00	HANDLE,GUN,INDY 2	1
23508-00	LOCK,TRIGGER,INDY 2	1
23509-00	GUARD,TRIGGER	1
23510-00	GUARD,NEEDLE	1
23511-00	ADAPTER,SOLVENT,AIR	1
23512-00	BRACKET,CHOPPER,INDY 2	1
23513-00	BRACKET,MOUNT,ROTATING,CHOPPER	1
23514-00	PIN,GUN,SST	2

Part	Description	Qty
23515-00	RESISTOR,CATALYST	1
23516-00	FITTING,NIPPLE,HEX,1/16NPT X 1/16N	1
23517-00	FITTING,REDUCER,NIPPLE,1/8X1/16NPT	1
23518-00	VALVE,BALL,2-WAY,1/8NPTF BR	1
23519-00	SPACER,BLOCK,MIX	1
23520-00	FITTING,CATALYST,INDY 2	1
23521-00	PLUG,PLUG,RESIN,CHECK	1
23522-00	HOUSING,RESIN,INDY 2	1
23524-01	SPRING,COMPRESSION,13.28RATE	2
23524-02	SPRING,COMPRESSION,10.62RATE	1
23525-01	NUT,LOCK,FLEX-TOP,1/4HX,4-40	1
23527-00	PLUG,PLUG,NIGHT,INDY 2	1
23528-01	STEM,VALVE,CHECK,SOLVENT	1
23528-02	STEM,VALVE,CHECK,RESIN	1
23529-00	HOUSING,VALVE,CHECK,CATALYST	1
23531-01	SCREW,SHOULDER,SLOTTED,SST	2
23532-01	SCREW,SET,FTPT,5/16-18 X 5/16	1
23533-01	SCREW,SET,CNPT,5/16-18 X 3/8	2
23534-00	PIN,DETENT,10-32UNF	1
23535-00	RETAINER,RING,RETAINER	2
23536-00	HANDLE,REST,HANDLE	1
23537-00	SPRING,NEEDLE,VALVE	2
23539-00	BLOCK,MAIN,GUN,INDY 2	1
23540-00	HOUSING,BODY,VALVE,CHECK,CATALYST	1
23554-00	WASHER,SEAT,CATALYST,INDY	1
23598-00	SPRING,COMPRESSION,.234/.328OD	1
16J757	WASHER,PTFE,.228ID	3
2594-02	PIN,ROLL,1/8 DIA X 1/2	1
623-RC	HOSE,TUBING,POLYETHYLENE,1/8	0.063
7704-08C	SCREW,SET,HALF DOG,#8	2
8212-12F	SCREW,SHDC,SS,.190-32X .375	2
8212-16F	SCREW,SHDC,SS,.190-32X .500	4
8212-40F	SCREW,SHDC,SS,.190-32X1.250	1
8212-56F	SCREW,SHDC,SS,.190-32X1.750	4
A-63-19A	O-RING,O-RING,SILICONE,2-011	2
A-76	CAP,RETAINER,KNURL	1
A-77	SPACER,O-RING	1
A-78	SEAT,VALVE,.218/.220ID	1
C-308	HOUSING,BODY,VALVE,MAT'L & AIR	1
C-315	WASHER,CRUSH,ALUM,.312ID	1
C-342	ROD,PUSH,AIR,1.325 LONG	1
CC-116	O-RING,O-RING,SILICONE,2-012	2
CJ-136	O-RING,O-RING,SILICONE,2-006	1
D-108	WASHER,SEAT,MAT'L	1
E-123	RETAINER,SEAT,VALVE,MAT'L	1

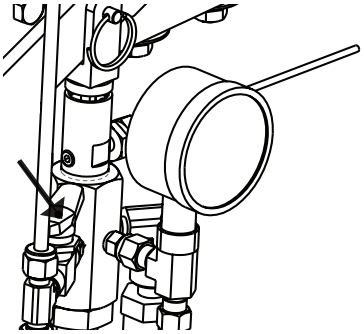
Pressure Relief Procedure

To relieve fluid and air pressures:

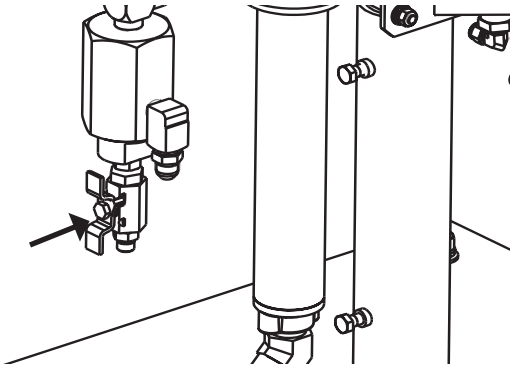
1. Push down Yellow slide valve, P/N 21402-00 to bleed off air to system.



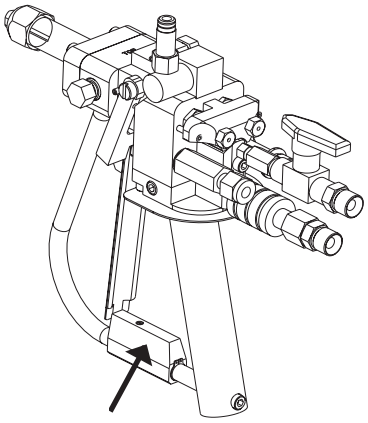
2. Open P/N 21228-00 on catalyst pump to recirculation position.



3. Open P/N 21192-00 on bottom of material pump.



4. Verify the trigger lock is in the locked position.



Daily Maintenance

It is recommended that the following service be performed on a daily basis.

1. The Gun is built at the factory with, P/N 21222-00 Lubricate. This is a water soluble lubricate, not affected by most solvents. When maintaining the Gun, it is recommended that this is used as outlined on “Lubricate Page”. Clean the Gun using a brush and a appropriate clean solvent.

2. Inspect Gun Valve Needle shafts, making certain they are clean and free of over-spray or foreign-material. Clean and lubricate as required.

3. Inspect the Gun Packings, Needles and Seats for catalyst or material leakage. If leakage does occur, correct at once! If material leaks (or drips) out of the nose of the gun, this indicates that there is a bad needle /seat condition. If material leaks out of the back of the needle stem, this indicates loose or worn packings and may be repacked by tightening the packing nuts, P/N 20509-00 1/8 turn each until leak stops. Test trigger to verify spring can return needle to seat.

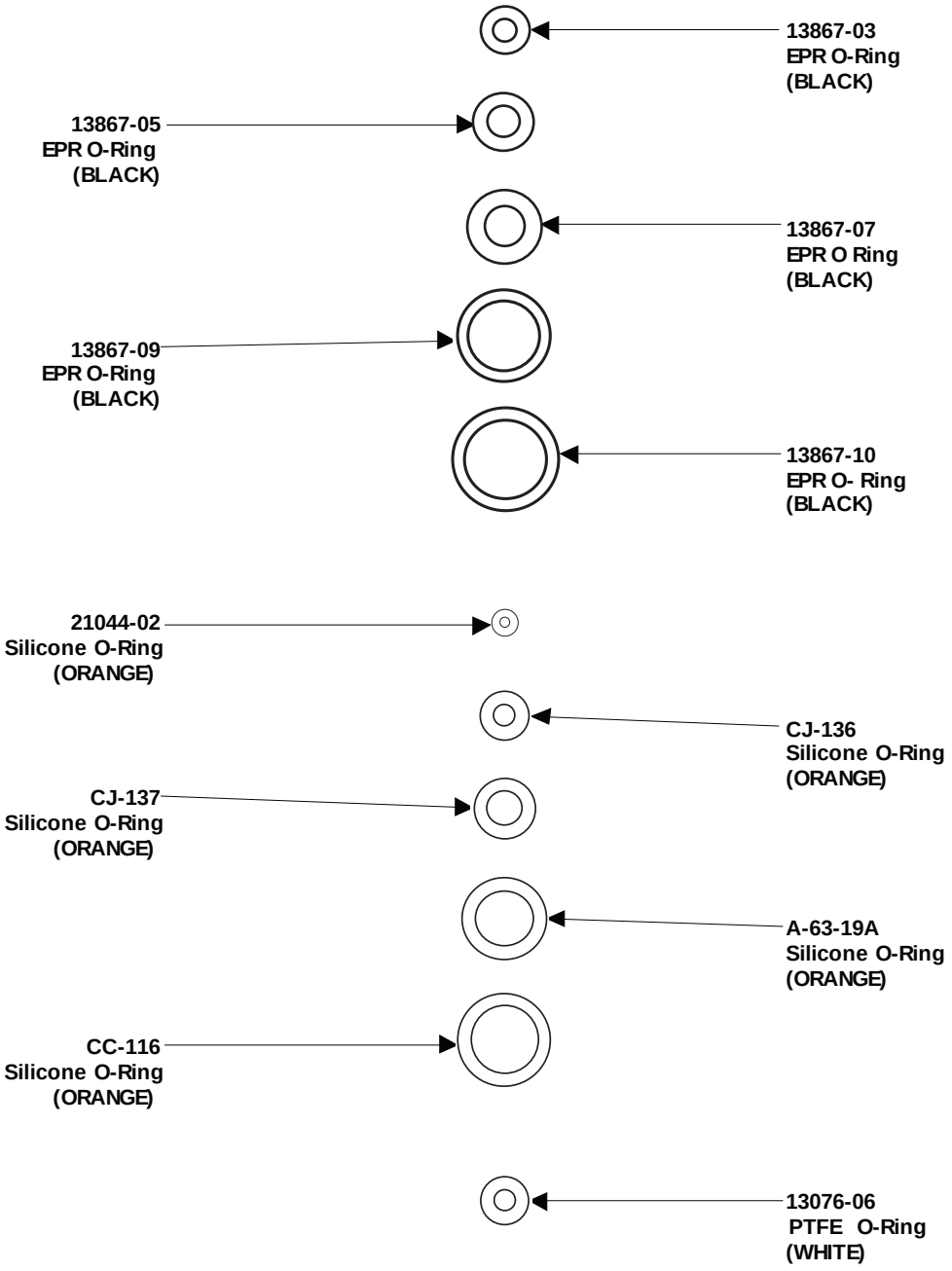
4. Maintain a reasonable stock level of “wear” items such as Packings, Seals and O-Rings

5. If dispense gun is leak tested, be sure to dry gun thoroughly.

6. **Never** leave dispense gun immersed in any liquid.

Maintenance

O-Ring Chart



Maintenance

Parts Replacement Procedure

Before performing maintenance on this dispense gun, follow Pressure Relief Procedure.

Notice

Due to the different o-ring materials and lubricants used in the dispense guns, never submerge or soak any dispense gun in any type of solvent. Submerging or soaking any dispense gun will void the gun warranty.

1. Read each procedure entirely before beginning and refer to the illustration views as needed.
2. Flush and clean all passages as they become accessible.
3. Clean all parts before assembly.
4. Replace all O-Rings, Valves and Seals with new parts from the appropriate kit.
5. Inspect all parts for wear or damage and replace as required with new GENUINE GlasCraft REPLACEMENT PARTS from your authorized GlasCraft Distributor.
6. Inspect all threads for wear or damage and replace as required.
7. Tighten all threaded parts securely, but not excessively, upon assembly.
8. O-rings can fail if subjected to any of the following conditions.
    a. Swelling - coming in contact with solvent or oil from compressor.
    b. Cut - sharp, unlubricated edge in gun head or handle.
    c. Sticky - contaminated with oil, water, solvent, catalyst, resin or gel-coat.
    d. Chaffing - dry sliding surfaces (needs lubrication).
9. Lightly lubricate all O-Rings with petroleum jelly.
10. Check all springs for resilience. They should return quickly to their original (new) length.
11. Clean the exterior of the Gun and Hoses with an appropriate, clean solvent and cloth or brush.

Hose Removal

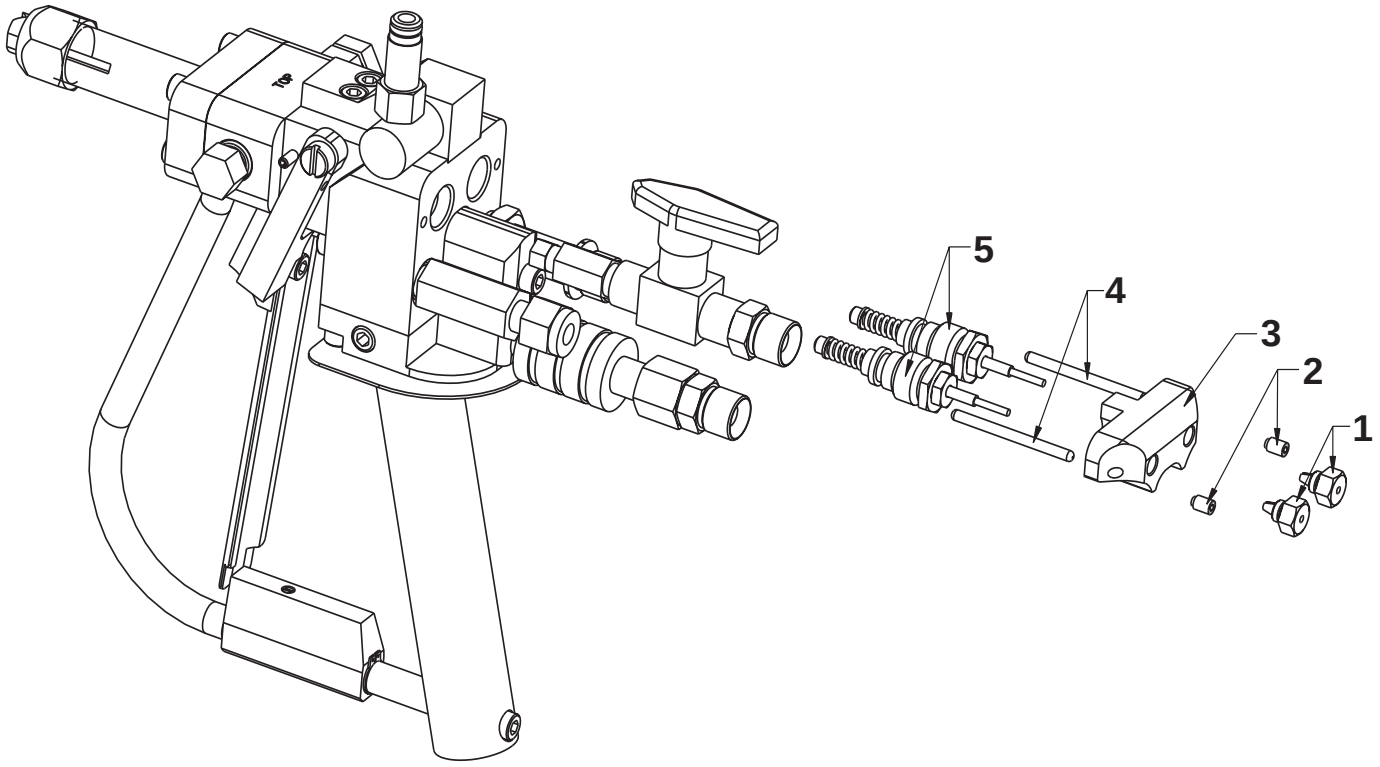
1. Releive pressure (See page 19).
2. Remove Resin Hose with an 11/16” wrench. (Hold delivery tube with an 11/16 wrench.)
3. Remove Catalyst Hose with a 9/16” wrench. (Hold delivery tube with a 9/16 wrench.)
4. Remove Air / Flush Block with an 5/32” Allen wrench. Remove block, watch for spring and ball from Air Valve
5. Remove all tubing lines by pushing in on the fitting and pulling the tubing out.
6. If optional fiberglass chopper is being used, remove the chopper air hose with a 11/16” wrench. (Hold the air hose inlet fitting with a 9/16” wrench)

Tape a clean polyethylene bag over the end of each Hose to prevent spillage and to keep clean.

Maintenance

Needle & Pin Removal Procedures

1. Remove needle collets. (3/8in. Wrench)
2. Remove set screws. (5/64in. Hex Key)
3. Remove needle guard.
4. Remove pins.
5. Remove needle assemblies. (9/16in. Wrench)



Maintenance

If Packing, P/N 20507-00 and Packing Disks, P/N 20508-00 are removed from Needle and Packing Housing, GlasCraft recommends that these parts always be replaced with NEW packings and packing disks.

1. Ensure spring is seated on needle shoulder.

2. Insert needle into the packing housing .

3. Lubricate a PTFE packing disk with red lube and slide into housing.

4. Lubricate the retainer with red lube and slide it into the housing with the flat side entering the housing first. (Concave side entering the housing last).

5. Lubricate the remaining (4) PTFE disc and slide them into the housing.

6. a. Lubricate the tip of the packing nut, screw it into the housing and hand tighten until it stops.

b. use a 3/8in. wrench on packing nut and a 9/16in. wrench on the packing housing and tighten 1/16 to 1/4 turn.

c. back off then tighten a little more.

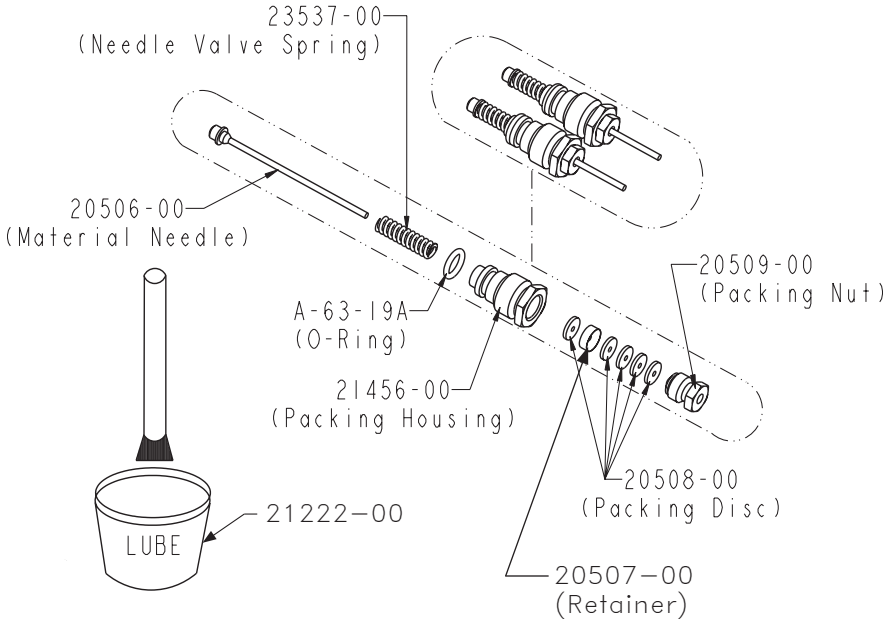
d. back off then tighten a little more.

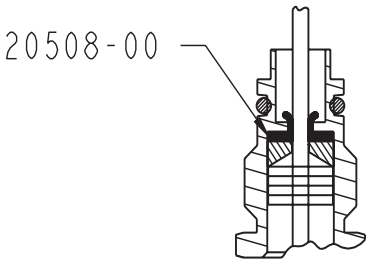
e. back off then snug tight until you hear a “POP”.

Needle Test

1. Put the tip of the needle on a hard surface and press down on the assembly to compress the spring. Release the assembly and the needle should return to it’s original position.

2. Turn the assembly over and place the *back* end of the needle on a hard surface and press down until it stops. Lift up on the spring and lock inside the housing to ensure that the seal has extruded through the hole and surrounds the needle as shown.





Maintenance

Needle & Pin Reassemble Procedure

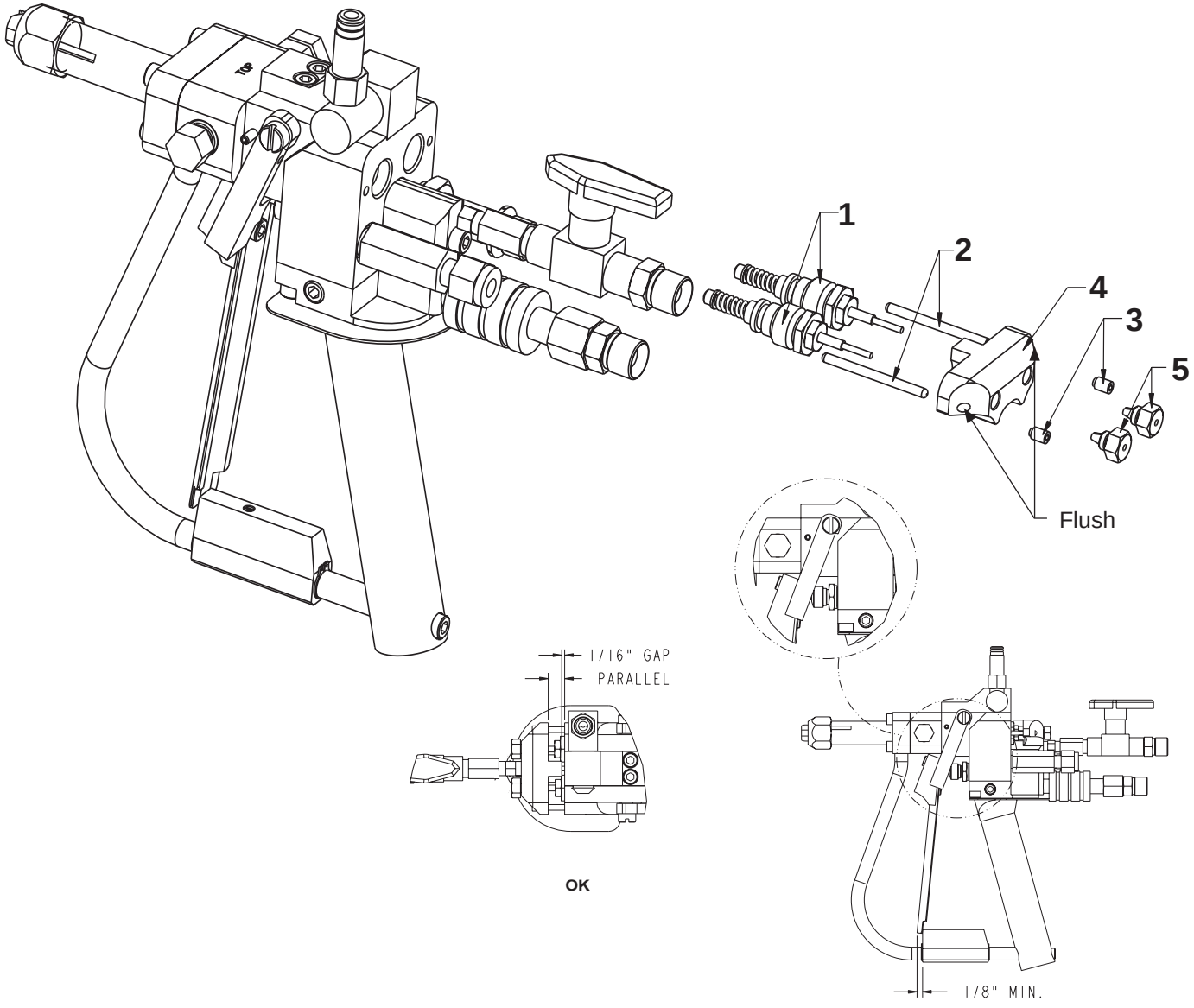
1. Reassemble the needle assemblies to the gun body. Lubricate the o-rings & use PTFE tape on the threads.

2. Make sure the gun pins are lubricated and slide them into the gun block and can be seen between the gun block and the back side of the trigger and they both are exposed at the back of the gun block near the catalyst and resin needles.

3. Lock-tite both of the set screws, then assemble them to the needle guard using a 5/64in. hex key and make sure they are flush. Fine adjustment will be done after reassembly.

4. Slide the needle guard over the catalyst and resin needles.

5. Attach the collet nuts to exposed needles and hand tighten. *Before tightening with a wrench place the needle guard 1/16in. (1.66mm) gap between the gun block and needle guard and tighten using a 3/8in. wrench while holding in place with your hand. Be sure to tighten the cullet nuts evenly.*

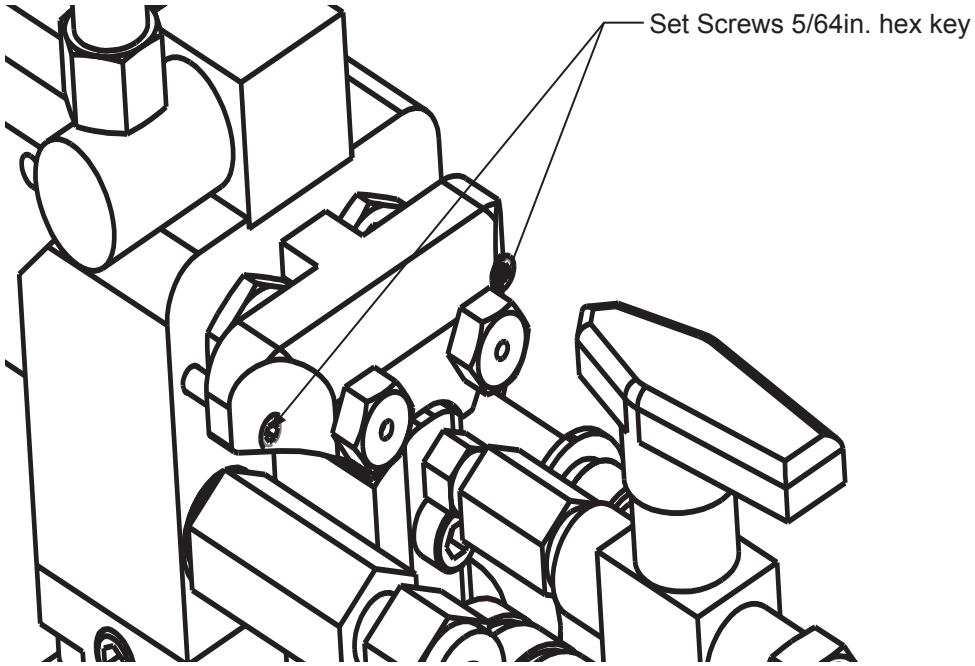


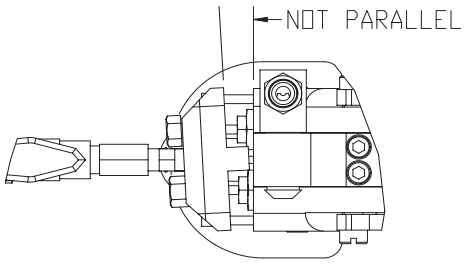
Maintenance

Trigger & Needle Guard Readjustment Procedure

If you trigger the gun and notice that one needle is activating before the other and not parallel, fine adjustment is needed.

1. Using a 5/64in. hex key adjust the Set Screw which is NOT making gun pin contact when the gun is triggered. Turn the set screw until both needles activate at the same time. ***Making the needle guard parallel is very important, to prevent LAG-LEAD in the catalyst & resin mix.***

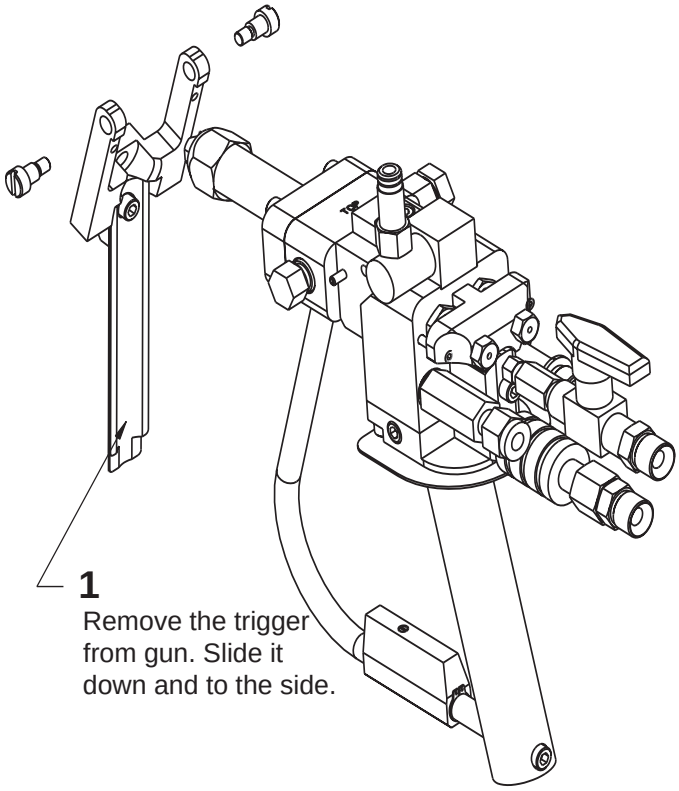




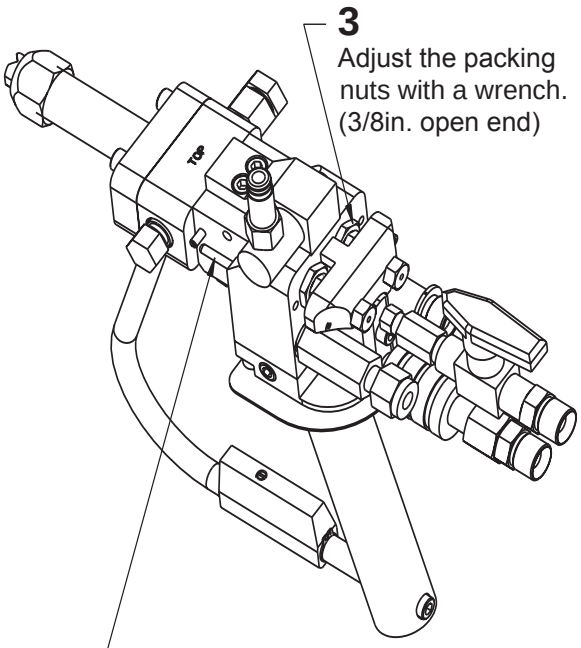
NOT OK

Maintenance

Packing Nut Adjustment Procedure



1
Remove the trigger from gun. Slide it down and to the side.



3
Adjust the packing nuts with a wrench. (3/8in. open end)

2
Slide the gun pins, p/n 23514-00 forward to allow access to the packing nuts.

Accessories

Impingement Dispense Tips

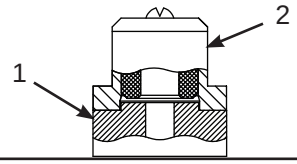
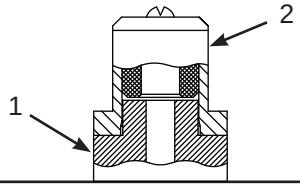
Part Number	Orifice	Min. Width	Max. Width	Min. Output	Max. Output
23005- C4	0.040	7	16.5	5.4	10.02
C5	0.050	8.5	15.5	6.36	12.23
C6	0.060	7	17	7.31	11.01
C7	0.070	7	13	8.53	10.58
C8	0.080	10	12.5	10.28	13.03
C9	0.090	7.5	10	11.49	12.36
E4	0.040	6	21	4.01	9.16
E5	0.050	11	21	5.71	10.23
E6	0.060	6.5	18.5	5.48	11.48
E7	0.070	7.5	15	7.96	10.58
E8	0.080	6	15.5	8.61	12.03
E9	0.090	7.5	15	9.61	12.36
G4	0.040	6	24	4.01	9.16
G5	0.050	10.5	32	4.31	10.23
G6	0.060	8.5	24	5.48	11.48
G7	0.070	6.5	25.5	6.43	10.58
G8	0.080	10	22	8.61	12.03
G9	0.090	7	16	8.53	12.36
J4	0.040	7	36.5	4.01	9.16
J5	0.050	7	30.5	4.31	10.23
J6	0.060	10	28	5.48	11.48
J7	0.070	7.5	26	6.43	10.58
J8	0.080	10	24	8.61	12.03
J9	0.090	11	20	8.53	10.58
K3	0.036				
K4	0.040	9.5	38	4.01	9.16
K5	0.050	12	34	4.31	10.23
K6	0.060	16	34	5.48	11.48
K7	0.070	13	30	6.43	10.58
K8	0.080	8	28	6.21	12.03
K9	0.090	11	25	7.88	12.36
M4	0.040	11	61	4.01	9.16
M5	0.050	13	38	4.31	10.23
M6	0.060	9	38	4.33	11.48
M7	0.070	11	31	6.43	10.58
M8	0.080	9	30	6.21	12.03
P4	0.040				

Airless Dispense Tips

Part Number	Orifice
LPA2-147-1525	0.015
1540	0.015
1825	0.018
1840	0.018
1850	0.018
2125	0.021
2140	0.021
2150	0.021
2325	0.023
2340	0.023
2350	0.023
2365	0.023
2640	0.026
2650	0.026
3125	0.031
3140	0.031
3150	0.031
3625	0.036
3640	0.036
3650	0.036
3840	0.038
3850	0.038
4325	0.043
4340	0.043
4350	0.043
5225	0.052
5240	0.052
5250	0.052
5265	0.052
6240	0.062
6250	0.062
6265	0.062
7240	0.072
7250	0.072

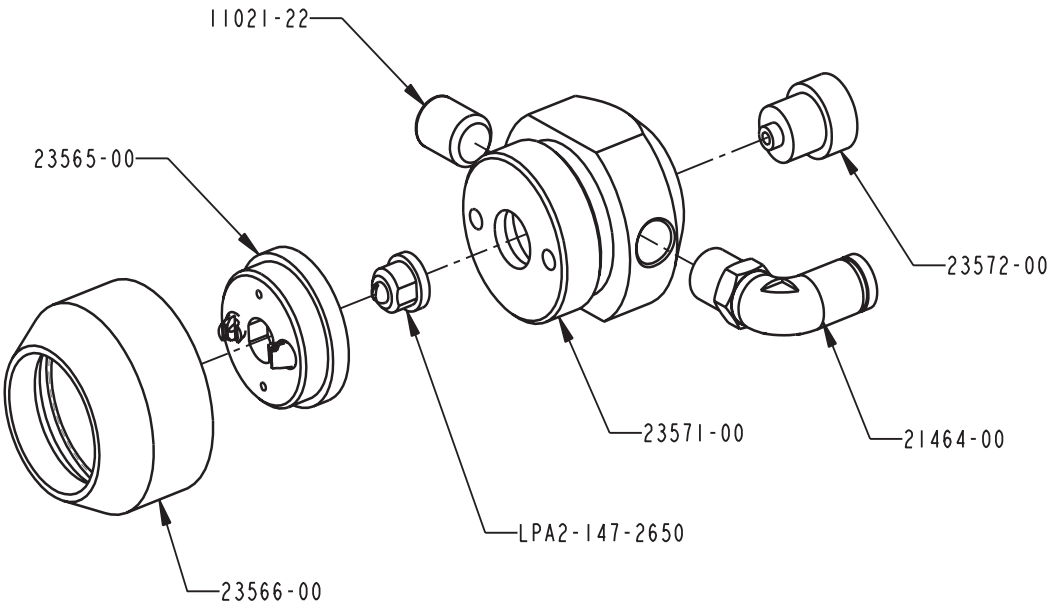
Spacer Seals

Use only Brown series C spacer seals with series B spray-tips, failure to do so may result in material clogging.

Series C Spacer Seals (Brown)	
Short Version	**Long Version**
Use with tips LPA2-147-1525 through LPA2-147-3850	Use with tips LPA2-147-4325 through LPA2-147-7250
GC2335	16V976
23564-00	16V972
23572-00	16V973
LPA2-121G	16V974
LPA2-124S	16V975
	
1 : *Tip Spacer Seal (Series C)* 2: Spray-tip (Series B)	

Accessories

23570-00 Internal Mix Gel - Screw - on AAC Gun Head Kit



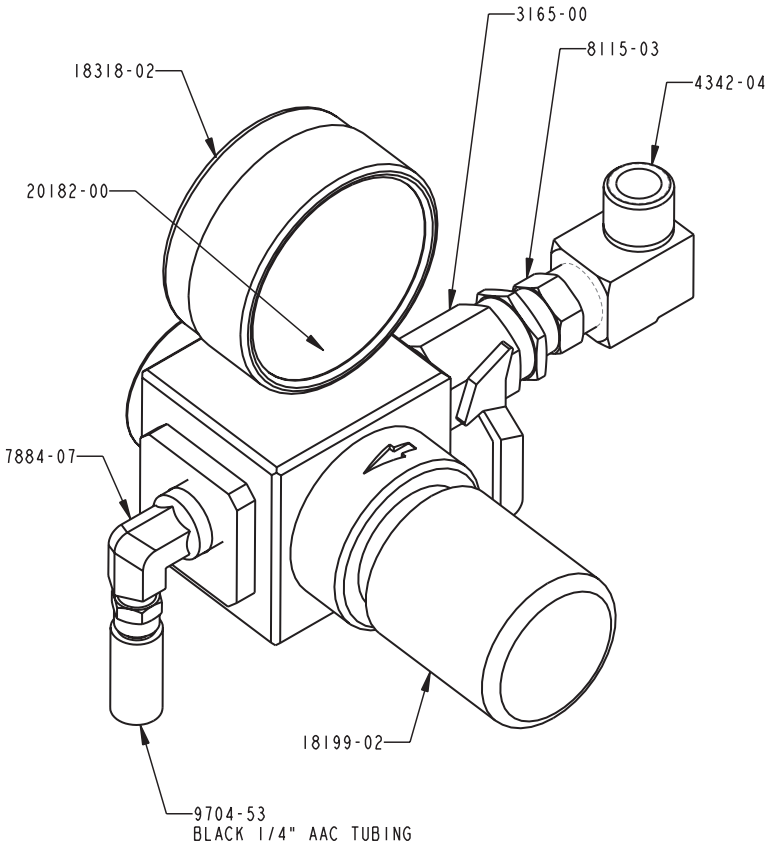
23570-00 ASSY.	
Part Number	**Description**
11021-23	PLUG
21464-00	ELBOW FITTING
23565-00	AIR ASSIST RING
23566-00	RETAINING RING
23571-00	AIR ASSIST NOZZLE BODY
LPA2-147-2150	SPRAY TIP

NOTE: Regulator assembly is required for AAC operation.

AAC: Air Assist Containment

Accessories

Regulator Assembly for 23570-00 Internal Mix Gel - Screw - on AAC Gun Head Kit

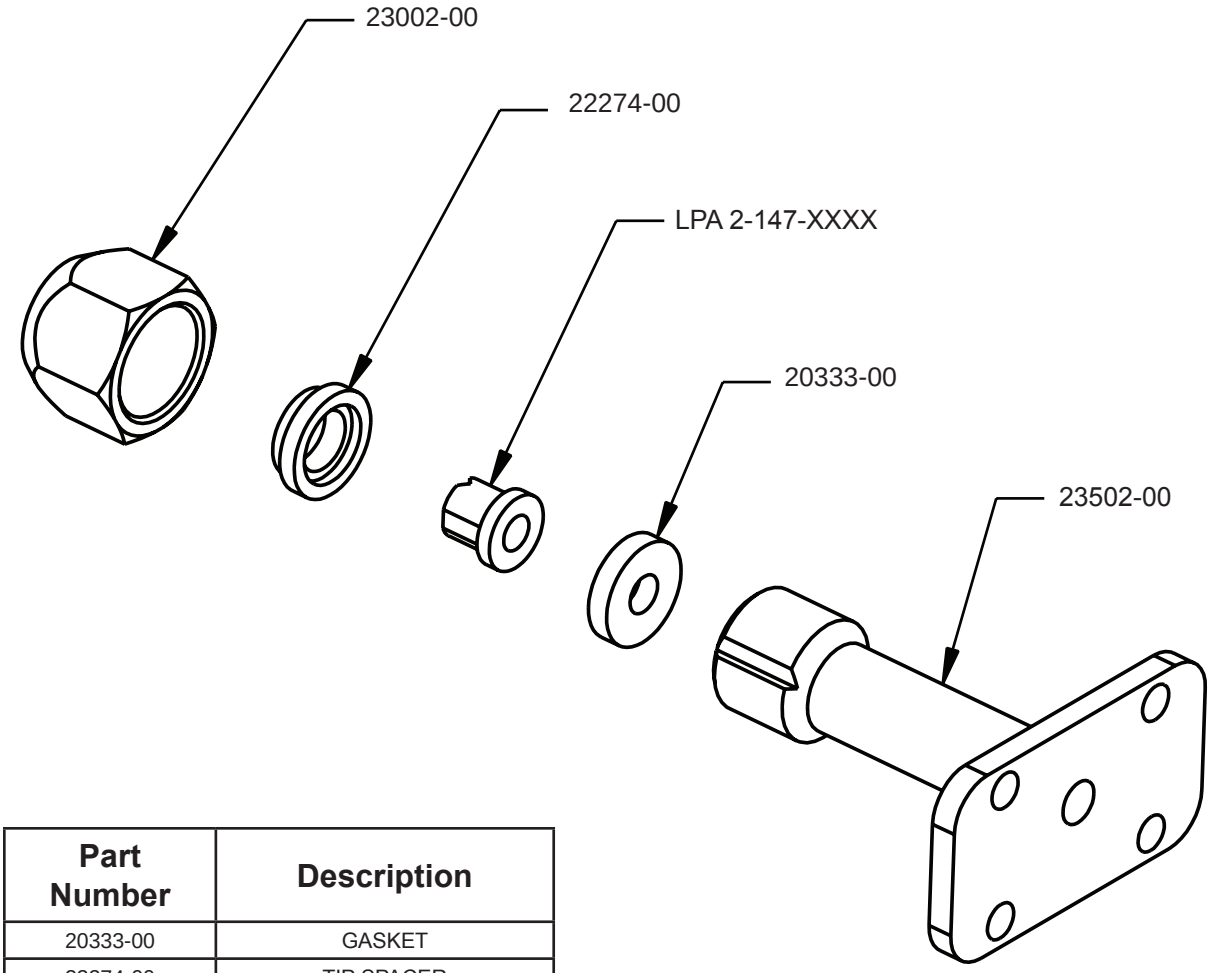


REGULATOR ASSY.	
Part Number	**Description**
3165	BALL VALVE
4342-04	ELBOW FITTING
7884-07	ELBOW FITTING
8115-03	NIPPLE FITTING
9704-53	BLACK AAC TUBING
18199-02	REGULATOR
18318-02	GAUGE
20182-00	AAC DECAL

NOTE: All parts listed in the chart need to be ordered individually to create the regulator assembly.

Accessories

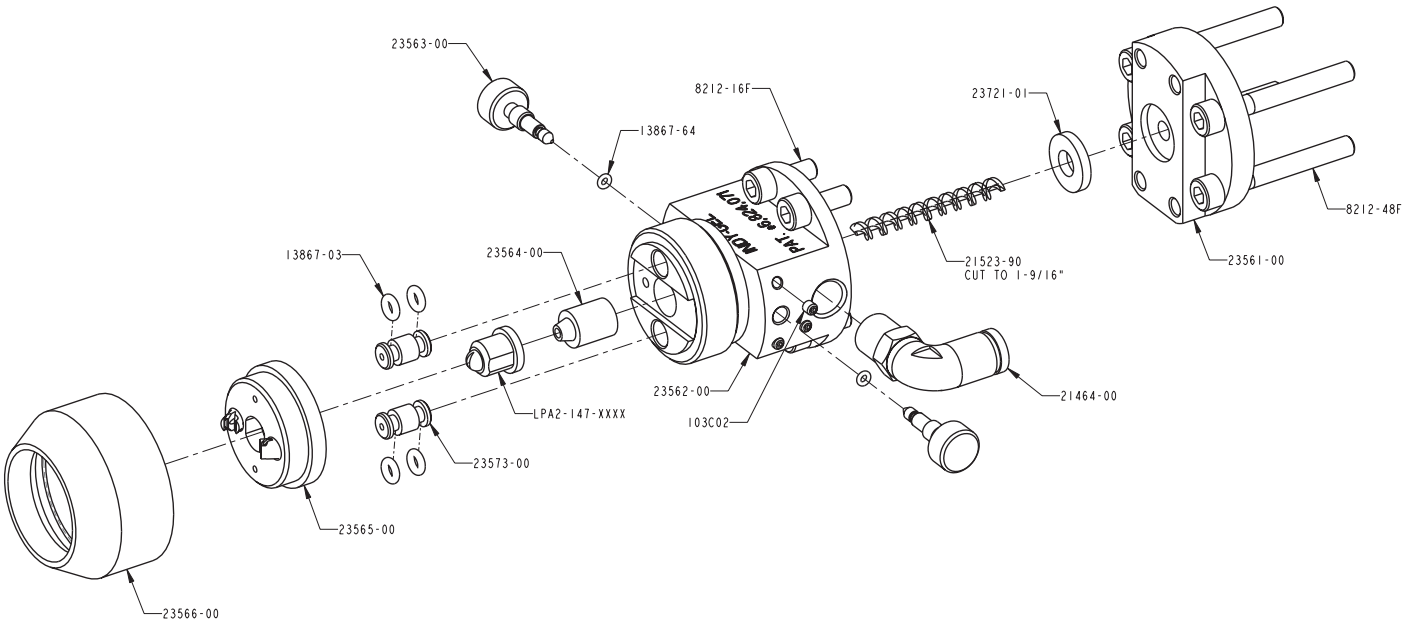
Small Diameter Airless Tip



Part Number	Description
20333-00	GASKET
22274-00	TIP SPACER
23002-00	RETAINING NUT
LPA2-147-XXXX	SPRAY TIP
23502-00	GUN FRONT HOUSING

Accessories

23560-00 Internal Mix Gel Bolt - on AAC Gun Head Kit



Part Number	Description
103C02-01	SET SCREW
7606-02	O-RING
8212-16F	SHOULDER SCREW
8212-48F	SHOULDER SCREW
13867-03	O-RING
21464-00	ELBOW FITTING

Part Number	Description
21523-90	SPIRAL MIXING ELEMENT
23561-00	AIR ASSIST ADAPTER
23562-00	DUAL AIR ASSIST BODY
23563-00	AIR ASSIST NEEDLE
23564-00	AIR ASSIST SEAL
23565-00	AIR ASSIST RING
23566-00	RETAINING RING
LPA2-147-XXXX	SPRAY TIP

NOTE:
The following is not included in this kit, but required:
(1) 7834-07 Elbow Fitting (Connection To Air Manifold)
XX-9704-53 Black AAC Tubing (XX= YOU MUST SPECIFY TUBING LENGTH BY FEET)
EXAMPLE: If standard machine hose length is 25ft, it is recommended to order 28ft. of 9704-53.

Notes

Technical Data

Category	Data
Maximum Fluid Working Pressure	2000 psi (14 MPa, 138 bar)
Maximum Air Inlet Pressure	100 psi (0.7 MPa, 7 bar)
Typical Flow Rate of Pattern Guns	Dependent of spray tip
Maximum Fluid temperature	100° F (38° C)
Air Inlet Size (Chopper)	1/4-18 NPS Male
A Component (Catalyst) Inlet Size	1/4 in. Tube
B Component (Resin) Inlet Size	1/4-18 NPS Male
Solvent Flush	1/4-18 NPS Male
Sound Pressure	75.8 dB(A)
Sound Power, measured per ISO 94 16-2	60.2 dB(A)
Dimensions	10.5 L X 3.31 W X 9.45 H (266.7 X 84 X 240 mm)
Weight	3.25 lb
Wetted Parts	Catalyst- Chemically coated aluminum, stainless steel, chemically resistant o-rings Resin- Carbon steel, carbide, chemically resistant o-rings.

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Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Original instructions. This manual contains English. MM GC-1306

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