

G15/G40 Spray Gun

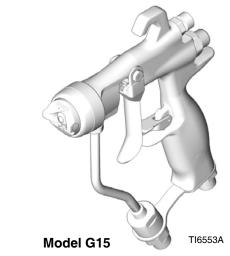
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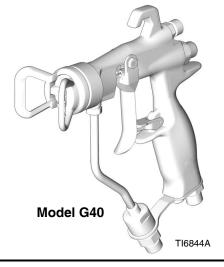
A lightweight line of air-assisted spray guns for spraying and finishing a variety of paints and coatings, particularly in applications requiring uniform atomization and high transfer efficiency. For professional use only.

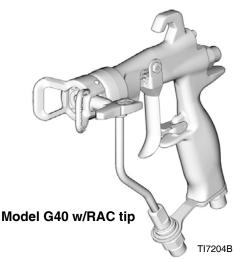


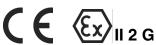
Important Safety Instructions:

Read all warnings and instructions in this manual. Save these instructions. See page 3 for model information including maximum working pressure.











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Models

Part	Series	Maximum Working Air Pressure psi (MPa, bar)	Maximum Working Fluid Pressure psi (MPa, bar)	Description	Includes:
24C853	A	100 (0.7, 7.0)	1500 (10.5, 105)	G15 Medium Pressure Air-Assisted Spray Gun, Carbide Seat and Ball	
24C854	A	100 (0.7, 7.0)	1500 (10.5, 105)	G15 Medium Pressure Air-Assisted Spray Gun, Plastic Seat, SST Ball	24C866 Air Cap with pin
26A826	A	100 (0.7, 7.0)	1500 (10.5, 105)	G15 Medium Pressure Air-Assisted Spray Gun, Carbide Seat and Ball, Lacquer Air Cap	26A824 Air Cap with pin
24C855	Α	100 (0.7, 7.0)	4000 (28, 280)	G40 High Pressure Air-Assisted Spray Gun, Carbide Seat and Ball	249180
24C856	A	100 (0.7, 7.0)	4000 (28, 280)	G40 High Pressure, High Flow Air-Assisted Spray Gun, Carbide Seat and Ball	Air Cap without pin
24C857	A	100 (0.7, 7.0)	4000 (28, 280)	G40 High Pressure Air-Assisted Spray Gun, Carbide Seat and Ball, Reverse-A-Clean [®] (RAC) Tip	24C921 RAC Air Cap

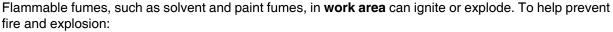
Warnings

The following are general warnings related to the setup, use, grounding, maintenance, and repair of this equipment. Additional, more specific warnings may be found throughout the body of this manual where applicable. Symbols that appear in the body of the manual refer to these general warnings. When these symbols appear throughout the manual, refer back to these pages for a description of the specific hazard.

WARNING



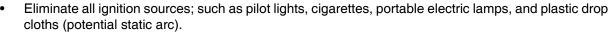
FIRE AND EXPLOSION HAZARD









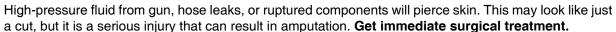




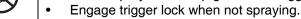
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the work area. See **Grounding** instructions.
- Use only grounded hoses.
- Hold gun firmly 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.

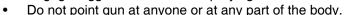


SKIN INJECTION HAZARD











- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses and couplings daily. Replace worn or damaged parts immediately.





A WARNING



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 from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure. Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- 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.



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.



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, hearing loss, inhalation of toxic fumes, and burns. This equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer

Installation

Typical Installation

NOTE: The typical installation shown in Fig. 1 is only a guide for selecting and installing air-assisted spray systems. Contact your Graco distributor for assistance in designing a system to meet your needs.

Ventilate the Spray Booth







- To prevent hazardous concentrations of toxic and/or flammable vapors, spray only in a properly ventilated spray booth. Do not operate the spray gun unless ventilation fans are operating.
- Check and follow all of the National, State, and Local codes regarding air exhaust velocity requirements.
- · Check and follow all local safety and fire codes.

Grounding







- Check your local electrical code and pump manual for detailed grounding instructions. Use only electrically conductive fluid hoses.
- Ground the spray gun through connection to a properly grounded fluid supply hose and pump.

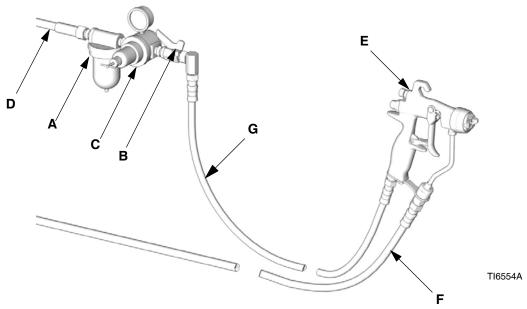


Fig. 1: Typical Installation (Model G15 Shown)

Key:

- A Air Line Filter
- B Air Shutoff Valve
- C Gun Air Pressure Regulator
- D Air Line
- E Spray Gun
- F Electrically Conductive Fluid Hose
- G Gun Air Supply Hose

Air Line

- Install an air filter (A) on the gun air line to ensure a dry, clean air supply to the gun. Dirt and moisture can ruin the appearance of your finished workpiece. See Fig. 1.
- 2. Install an air pressure regulator (C) on the gun air line to control air pressure to the gun.
- 3. Install an air shutoff valve (B) on the gun air line and on the pump air line, to shut off air to the gun.
- 4. Use a 3/16 in. (5 mm) I.D. or larger air hose to minimize excessive pressure drop in the hose.

NOTE: The gun air inlet has a 1/4-18 npsm (R1/4-19) compound male thread that is compatible with NPSM and BSP female swivel connectors.

5. Connect the air hose (G) to the 1/4 npsm gun air inlet. See Fig. 2.

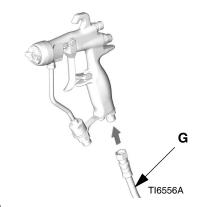
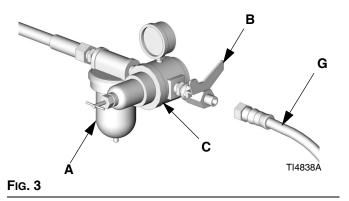


Fig. 2

6. Connect the other end of the air hose (G) to the outlet of the air shutoff valve. See Fig. 3.

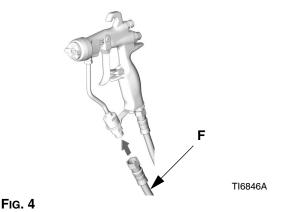


Fluid Line

- Before connecting the fluid line, blow it out with air and flush it with solvent. See Flushing and Cleaning, page 14. Use solvent which is compatible with the fluid to be sprayed.
- If better control of fluid pressure is needed, install a fluid regulator on the fluid line to better control fluid pressure to the gun.
- Use a fluid filter to remove coarse particles and sediment, to avoid clogging the spray tip and causing finishing defects.

NOTE: Guns are equipped with a built-in 100 mesh fluid filter to provide final filtering just before spraying.

2. Connect the fluid hose (F) to the gun fluid inlet. See Fig. 4. If desired, install a fluid swivel connector (189018) at the gun inlet for best maneuverability. See Accessories, page 35.



3. Connect the other end of the fluid hose (F) to the pump fluid outlet.

Setup

Flush Before Using Equipment

- The equipment was tested with lightweight oil, which is left in the fluid passages to protect parts. To avoid contaminating your fluid with oil, flush the equipment with a compatible solvent before using the equipment. See **Flushing and Cleaning**, page 14.
- Relieve the pressure. See Pressure Relief Procedure, page 10.



The fluid flow and pattern width depend on the size of the spray tip, the fluid viscosity, and the fluid pressure. See **Spray Tip Selection Chart**, page 32. Contact your Graco distributor for assistance in selecting an appropriate spray tip for your application.

Air Cap Alignment Pin

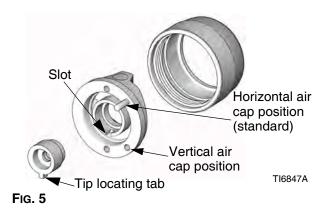
Model G15 guns use an air cap alignment pin to position the air cap. The standard location of the air cap alignment pin is the horizontal air cap position.

If you would like to change the spray pattern direction, use a needle nose pliers to unscrew the pin and relocate it to the desired position. See Fig. 5. When relocating the pin use low-strength thread locker. Torque to 1.5-2.5 in-lb (0.2-0.3 N•m). DO NOT OVERTIGHTEN.

The air cap alignment pin can be removed according to preference. Air cap alignment pins will not work with model G40 guns.

NOTICE

The alignment pin and retaining ring for current model guns are different from the earlier model guns. They are not interchangeable. Use of the incorrect pin will result in fluid leakage or loss of the alignment feature. Use of the wrong retaining ring will damage retaining ring and gun threads. See Part Interchangeability Guide, page 37.



Install a Spray Tip

Install a spray tip in the air cap. Ensure that the tip locating tab is positioned in the slot of the air cap. See Fig. 5.

Position the Air Cap

Assemble the air cap to the gun. The air cap and spray tip position determine the direction of the spray pattern.

Rotate the air cap (the spray tip rotates with it) as needed to achieve the desired spray pattern direction. See Fig. 6. For the G15 air cap, the alignment pin will stop the rotation in the proper orientation.

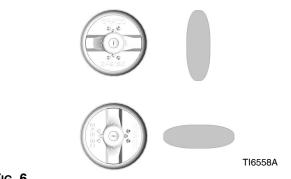


Fig. 6

Tighten the air cap retaining ring (6) firmly by hand to ensure a good seal between the tip gasket and the diffuser (5).

Reverse-A-Clean® (RAC) Tip Assembly

Model 24C857 guns use a Reverse-A-Clean® (RAC) tip.

To assemble the RAC tip, insert the seat housing into the air cap assembly.

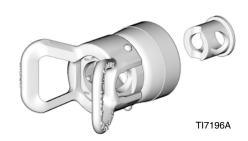


Fig. 7

Insert the SwitchTip.



Fig. 8

Insert the gasket seat.



Fig. 9

Screw the RAC tip assembly onto the gun and tighten firmly by hand.



Fig. 10

NOTICE

The RAC assembly for current model guns uses a different seat housing and has a coarser thread than the RAC assembly for earlier model guns. **They are not interchangeable.** Use of the incorrect RAC assembly will damage the threads. See **Part Interchangeability Guide**, page 37.

Operation

Be sure to read and follow the **Warnings** on pages 4 and 5 and throughout the text of this instruction manual.

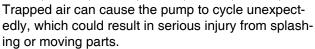
Keep the wallet sized warning card (222385), provided with the gun, with the operator of this equipment at all times. The card contains important treatment information should a skin injection injury occur. Additional cards are available at no charge from Graco.

Pressure Relief Procedure









To reduce the risk of an injury from injection, splashing fluid, or moving parts, follow the Pressure Relief Procedure whenever you:

- are instructed to relieve the pressure,
- stop spraying,
- check or service any of the system equipment, or install or clean the spray tip.
- 1. Engage the trigger lock. See Fig. 12.
- 2. Shut off the pump. See your pump manual.
- 3. Shut off the gun air supply.
- 4. Disengage the trigger lock. See Fig. 12.
- 5. Hold a metal part of the gun firmly to a grounded metal pail. Trigger the gun to relieve pressure. See Fig. 11.

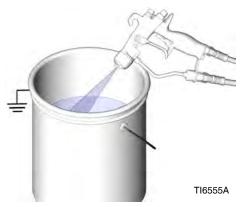
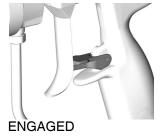


Fig. 11

- Open all fluid drain valves in the system, having a
 waste container ready to catch drainage. Leave
 drain valve(s) open until you are ready to spray
 again.
- 7. Engage the trigger lock. See Fig. 12.
- 8. If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved after following the steps above, VERY SLOWLY loosen the tip guard retaining ring or hose end coupling to relieve pressure gradually, then loosen completely. Clear hose or tip obstruction.

Trigger Lock

Always engage the trigger lock when you stop spraying to prevent the gun from being triggered accidentally by hand or if dropped or bumped.





TI6581A

TI6582A

Fig. 12

How the Air-Assisted Spray Gun Operates

The air-assisted spray gun combines airless and air spraying concepts. The spray tip shapes the fluid into a fan pattern, as does a conventional airless spray tip. Air from the air cap further atomizes the fluid and completes the atomization of the paint tails into the pattern to produce a more uniform pattern. The width of the pattern can be adjusted by the pattern adjustment valve.

The air-assisted spray gun differs from an air spray gun in that increasing the pattern air reduces the pattern width. To increase the pattern width, use less pattern air or a larger size tip.

The spray gun has a built-in lead and lag operation. When triggered, the gun begins emitting air before the fluid is discharged. When the trigger is released, the fluid stops before the air flow stops. This helps assure the spray is atomized and prevents fluid buildup on the air cap.

Spray Pattern Adjustment





To reduce the risk of component rupture and serious injury, including injection, do not exceed the gun's maximum fluid working pressure or the maximum working pressure of the lowest rated component in the system.

 Do not turn on the gun air supply yet. Set the fluid pressure at a low starting pressure. If a fluid pressure regulator is installed, use it to make adjustments.

If your system does not have a fluid regulator, the fluid pressure is controlled by the air regulator supplying the pump, per the formula below:

Pump x Pump Air Regulator = Fluid Ratio Setting Pressure

- 2. Trigger the gun to check the atomization; do not be concerned about the pattern shape yet.
- Slowly increase the fluid pressure, just to the point where a further increase in fluid pressure does not significantly improve fluid atomization.

4. Close off the pattern adjustment air by turning the knob clockwise (in) all the way. See Fig. 13. This sets the gun for its widest pattern.



Fig. 13

5. Set the atomizing air pressure at about 5 psi (3.5 kPa, 0.35 bar) when triggered. Check the spray pattern, then slowly increase the air pressure until the tails are completely atomized and pulled into the spray pattern. See Fig. 14. Seven to 10 psi (4.9 to 7.0 kPa, 0.49 to 0.7 bar) air pressure is typically enough to atomize the tails, especially for low viscosity materials. Setting the air pressure too high will cause material to build up on the air cap and decrease transfer efficiency. Do not exceed 100 psi (0.7 MPa, 7 bar) air pressure to the gun.

For a narrower pattern, turn the pattern adjustment valve knob counterclockwise (out). See Fig. 13. If the pattern is still not narrow enough, increase the air pressure to the gun slightly or use a different size tip. (Not available for RAC tip guns.)

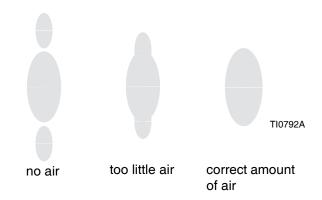


Fig. 14

HVLP Operation

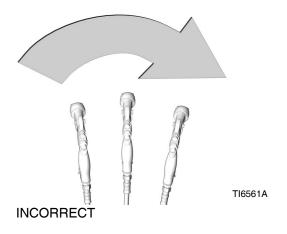
NOTE: For HVLP operation, the atomization air must not exceed 10 psi. Use HVLP Verification Kit 24C788 to verify air psi.

NOTE: There is no fan adjustment when using RAC tips and caps.

Fluid Application

Always hold the gun at a right angle from the surface. Do not make an arc with the gun as it causes an uneven coat of fluid. See Fig. 15.

- To achieve the best results when applying fluid, keep the gun perpendicular to the surface and maintain a consistent distance of approximately 8 to 12 in. (200 to 300 mm) from the object being sprayed.
- 2. To obtain an even finish, use smooth, even strokes across the object being sprayed with 50% overlap.
- 3. Paint using parallel strokes. This spray gun applies all coatings evenly without cross coating.



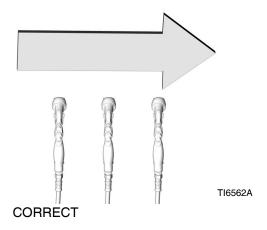


Fig. 15

Daily Gun Care, Flushing, and Cleaning









NOTICE

Methylene chloride with formic or propionic acid is not recommended as a flushing or cleaning solvent with this gun as it will damage aluminum and nylon components.

NOTICE

Do not use any cleaning method which may allow solvent into the gun air passages. Solvent left in gun air passages could result in a poor quality paint finish.

Do not point the gun up while cleaning it.



Do not immerse the gun in solvent.



Do not wipe the gun with a cloth soaked in solvent; wring out the excess.



Do not use metal tools to clean the air cap holes as this may scratch them; scratches can distort the spray pattern.



General System Maintenance

- 1. Relieve the pressure, page 10.
- 2. Clean the fluid and air line filters daily.
- Check for any fluid leakage from the gun and fluid hoses. Tighten fittings or replace equipment as needed.
- 4. Flush the gun before changing colors and whenever you are done operating the gun.

Fluid Filter Maintenance

- 1. Unscrew the fluid inlet fitting (18).
- 2. Remove and inspect the inline fluid filter (12). Clean or replace the filter as necessary.

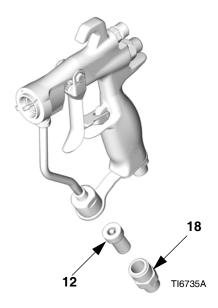


Fig. 16

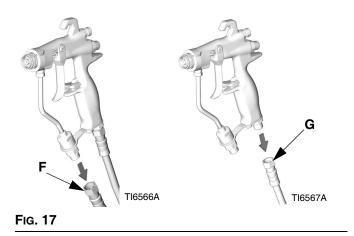
NOTICE

The threads on the fluid inlet fitting for new model guns are slightly finer than the threads on the old model guns. The fluid inlet fittings are not interchangeable. Use of an incorrect fitting will damage the threads.

Flushing and Cleaning

NOTE:

- Flush before changing colors, before fluid can dry in the equipment, at the end of the day, before storing, and before repairing equipment.
- Flush at the lowest pressure possible. Check connectors for leaks and tighten as necessary.
- Flush with a fluid that is compatible with the fluid being dispensed and the equipment wetted parts.
- 1. Relieve the pressure, page 10.
- Remove the air cap retaining ring (6), air cap (21), and spray tip (33). Soak the spray tip in a compatible solvent.
- 3. Disconnect the fluid supply hose (F) and air supply hose (G) from the gun.



4. Connect the solvent supply hose (T) to the gun.

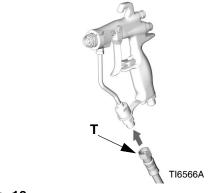


Fig. 18

5. Increase the pressure slowly. Point the gun down into a grounded metal container, and flush the gun with solvent until all traces of fluid are removed from the gun passages.

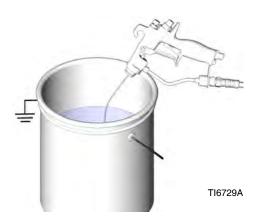


Fig. 19

- 6. Turn off the solvent supply.
- 7. Relieve the pressure.
- 8. Disconnect the solvent supply hose (T) from the gun.

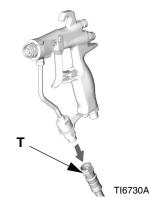


Fig. 20

NOTICE

Trigger the gun whenever you tighten or remove the diffuser (5). This keeps the needle ball away from the seating surface and prevents the seat from being damaged.

9. If it is necessary to remove the diffuser (5) to clean, trigger the gun while you remove the diffuser with the gun tool (30).

10. Dip the end of a soft-bristle brush into a compatible solvent. Do not continuously soak the brush's bristles with solvent and do not use a wire brush.



Fig. 21

11. With the gun pointed down, clean the front of the gun, using the soft-bristle brush and solvent.

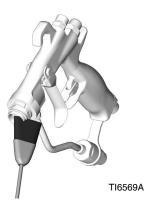


FIG. 22

12. Scrub the air cap retaining ring (6), air cap (21), diffuser (5), and spray tip (33) with the soft-bristle brush. To clean out air cap holes, use a soft tool, such as a toothpick, to avoid damaging critical surfaces. Blow air through the spray tip to ensure the orifice is clean. Clean the air cap and spray tip daily, minimum. Some applications require more frequent cleaning.

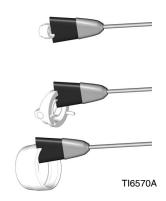


Fig. 23

- 13. If the diffuser was removed, trigger the gun while you reinstall the diffuser (5) with the gun tool (30). Tighten the diffuser securely to obtain a good seal. Torque to 155-165 in-lb (18-19 N•m). When properly tightened, the flange will bottom out on the gun.
- 14. Install the air cap retaining ring (6), air cap (21), and spray tip (33).

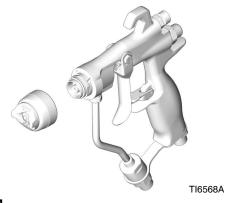


Fig. 24

15. Dampen a soft cloth with solvent and wring-out the excess. Point the gun down and wipe off the outside of the gun.

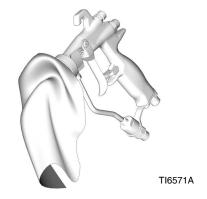


FIG. 25

- 16. After cleaning the gun, lubricate the following parts with lubricant 111265 weekly:
 - Trigger pivot pin (A)
 - Boss on both sides of the gun where the trigger contacts the gun body (B)
 - Fluid needle shaft, behind trigger (C)

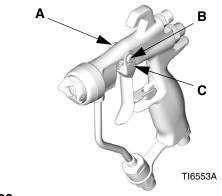


FIG. 26

Reverse-A-Clean® (RAC) Tip

NOTE: Do not soak the RAC tip seat gasket (33a) in solvent for extended periods of time or swelling may occur.

Clearing a clogged RAC tip

Release the trigger and engage the trigger lock.



Fig. 27

Rotate the SwitchTip.



FIG. 28

Disengage the trigger lock.



Fig. 29

Trigger the gun into a pail to clear the clog.

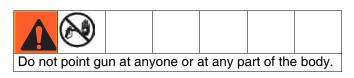




FIG. 30

Engage the trigger lock.



Fig. 31

Return the SwitchTip to its original position.

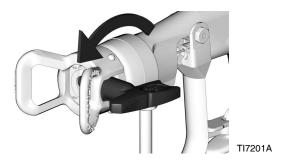


FIG. 32

Disengage the trigger lock and continue spraying.



FIG. 33

Troubleshooting



NOTE:

- Check all possible remedies in the troubleshooting charts before disassembling the gun.
- Some improper patterns are caused by the improper balance between air and fluid.

Problem	Cause	Solution
Fluid leakage from back of fluid packing area.	Worn packings or needle shaft.	Replace needle assembly (2).
Air leakage from gun.	Air valve not seating properly.	Clean or replace air valve (8).
Fluid leakage from front of gun.	Needle ball worn or damaged.	Replace needle assembly (2) and seat (5c).
	Worn seat assembly.	Replace the seat (5c) and gasket (5b, carbide models only). The gasket must be replaced whenever the seat assembly is removed.
		Do not reverse the direction of the plastic seat (5c, model 24C854 gun only) if it is worn. The seat must be replaced it if is worn.
	Fluid viscosity too low for proper seal with carbide seat.	Install plastic seat (5c).
Fluid in air passages.	Spray tip seal leaking.	Tighten retaining ring (6) or replace spray tip (33).
	Leaking around seat housing.	Replace the gasket (5b, carbide models only). The gasket must be replaced whenever the seat assembly is removed.
	Fluid inlet fitting leaking.	Replace the fluid tube gasket (22). The gasket must be replaced whenever the fluid tube connector is removed.
Slow fluid shut-off.	Fluid buildup on fluid needle components.	Remove and clean or replace the fluid needle assembly (2).
No fluid output when triggered.	Spray tip plugged.	Clean spray tip. See page 14.
	Fluid filter or fluid hose plugged.	After tip removal (see above), very slowly loosen the hose end coupling at the gun and relieve pressure gradually. Then loosen completely to clear the obstruction. Clean or replace filter (12).

Problem	Cause	Solution			
Fluttering or spitting spray.	Insufficient fluid supply.	Adjust fluid regulator or fill fluid supply tank.			
	Air in paint supply line.	Check, tighten pump siphon hose connections, bleed air from paint line.			
]}<[Attempting to "feather" (partially trigger the gun).	Cannot "feather" with an AA gun. Feather will cause drastic reduction of pressure at the tip, resulting in poor atomization and/or spitting.			
Striping spray.	Spray tip partially plugged.	Clean or replace spray tip. See page 14.			
Irregular pattern.	Fluid build-up on spray tip, or spray tip partially plugged.	Clean or replace spray tip. See page 14.			
	On defective side of pattern, air horn holes are partially or totally plugged.	Clean air horn holes with solvent and soft brush. See page 14.			
Pattern pushed to one side, same side of air cap gets dirty.	Air horn holes partially or totally plugged.	Clean air horn holes with solvent and soft brush or toothpick. See page 14.			
Material build up on air cap.	Air pressure setting too high.	Reduce inlet air pressure. Seven to 10 psi (4.9 to 7.0 kPa, 0.49 to 0.7 bar) air pressure when triggered is recommended.			

Repair



Repair Kits

NOTE:

- Seal Repair Kit 249422 is available. For best results, use all the new parts in the kit. Kit parts are marked with an asterisk, for example (7*).
- Plastic Seat Repair Kit 249424 and Carbide Seat Repair Kit 249456 are available and can be used with both Model G15 guns and Model G40 guns.
 For best results, use all new parts in the kit. Kit parts are marked with a symbol in the Parts list, for example (5c†).
- Plastic Seat Kit 249424 is intended for low pressure usage.

Fan Valve Replacement

- 1. Relieve the pressure, page 10.
- 2. Unscrew the fan valve packing nut (A) from the back of the gun body (1). Slide the fan valve assembly (4) out of the gun body. See Fig. 34.
- 3. Before reinstalling, turn the pattern adjustment valve (C) of the replacement fan valve assembly (4) completely counterclockwise to prevent damage to the seat (5c). Install the replacement fan valve assembly into the gun body (1). Screw the packing nut (A) into the gun body and torque to 90 in-lb (10.5 N•m).

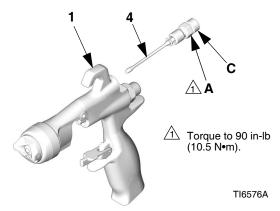


Fig. 34

Complete Gun Packing Repair

Disassembly

Seat Repair

NOTE:

- See Repair Kits, page 20.
- Clean parts with a solvent that is compatible with the parts and the fluid being sprayed.
- 1. Relieve the pressure, page 10. Remove the fluid and air hoses from the gun.
- 2. Remove the air cap retaining ring (6), air cap (21), and spray tip (33). See Fig. 35.

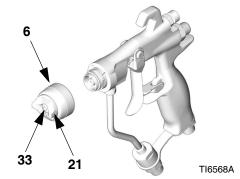


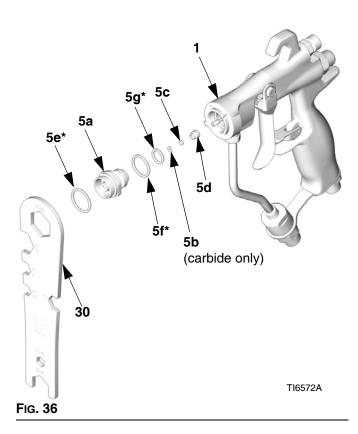
Fig. 35

- 3. Trigger the gun to pull the needle housing off the seat while you unscrew the diffuser (5) from the gun body (1), using the gun tool (30).
- 4. Inspect the o-rings (5e*, 5f*, and 5g*) in place. Carefully remove the o-rings from the diffuser housing (5a) and replace if necessary.
- 5. Remove the seat nut (5d), seat (5c) and seat gasket (5b, carbide models only) using a 7/32 in. hex wrench.
- 6. Inspect the seat (5c) and seat gasket (5b) and replace if necessary.

7. Reinstall the seat gasket (5b, carbide models only), seat (5c), and seat nut (5d). Torque to 45-50 in-lb. Be sure not to overtighten the nut.

NOTE:

- When reinstalling the carbide seat (5c), the tapered end of the seat (red side) must point toward the gun spray tip (not the needle tip).
- The plastic seat (5c, model 24C854 guns), can be reinstalled in either direction. To avoid fluid leakage, do not reverse the direction of the plastic seat (5c) if it is worn. The seat must be replaced if it is worn.



Needle Repair

- 1. Remove the diffuser, see Seat Repair, page 20.
- 2. Remove the trigger pivot pin nut (14‡), pivot pin (13‡), and trigger (3‡) using the gun tool (30) and nut driver (29). See Fig. 37.

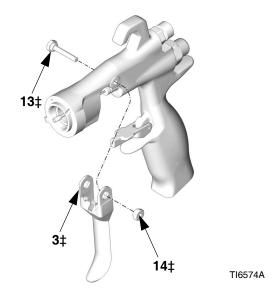
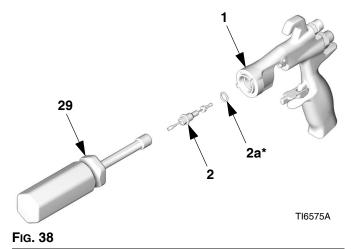


Fig. 37

3. Remove the fluid needle assembly (2) from the front of the gun by using the nut driver tool (29). If the needle is bent or damaged, or the packing is worn or leaking, replace the entire needle assembly. If replacement is necessary, be sure to remove the o-ring (2a*) as it may stick inside the gun body. See Fig. 38.



Air Valve Repair

- 1. Unscrew the spring cap (11) from the back of the gun body (1) using the gun tool (30). Remove the two springs (15 and 19) and the shaft (9).
- 2. Push the air valve assembly (8*) out the back of the gun. See Fig. 39.
- 3. Inspect the u-cup (7*) in the gun body (1). If the u-cup is worn or leaking, carefully remove the u-cup from the front of the gun body, using a pick.

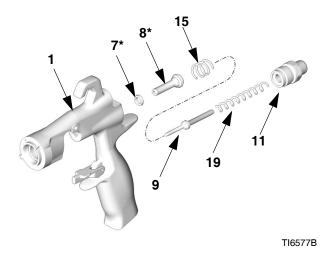


Fig. 39

Fluid Tube Replacement

- 1. Remove the air inlet fitting (17) using the gun tool (30) and remove the screw (20) using a 3/16 in. hex wrench.
- 2. Unscrew the fluid inlet fitting (18). Remove and clean or replace the inline fluid filter (12).
- 3. Unscrew the fluid tube connector (C) from the gun's fluid inlet. Carefully remove the gasket (22*).

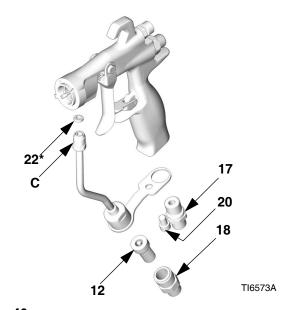


Fig. 40

Reassembly

NOTE: See Repair Kits, page 20.

- Install the tube gasket (22*) in the gun. Handtighten the fluid tube connector (C) into the gun's fluid inlet. Handtighten the air inlet fitting (17) and screw (20). Torque the fluid tube connector to 150-160 in-lb (17-18 N•m). Torque the air inlet fitting to 210-220 in-lb (24-25 N•m). Torque the fluid tube bracket screw to 50-60 in-lb (6-7 N•m). See Fig. 43.
- 2. Install the inline fluid filter (12) into the base of the fluid tube. Screw the fluid inlet fitting (18) into the base of the tube. Torque to 175-185 in-lb (20-21 N•m). See Fig. 43.
- 3. Place the new u-cup (7*) on the seal installation tool (28*), with the u-cup lips facing the tool as shown in Fig. 41. Push the u-cup into the back of the gun until you feel a definite snap.

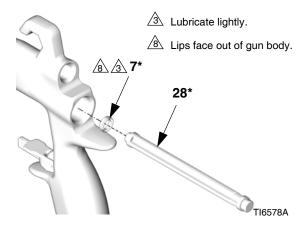
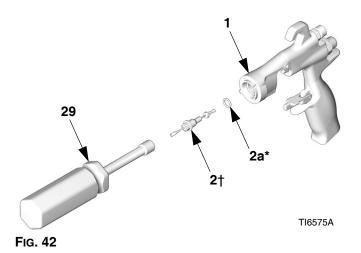


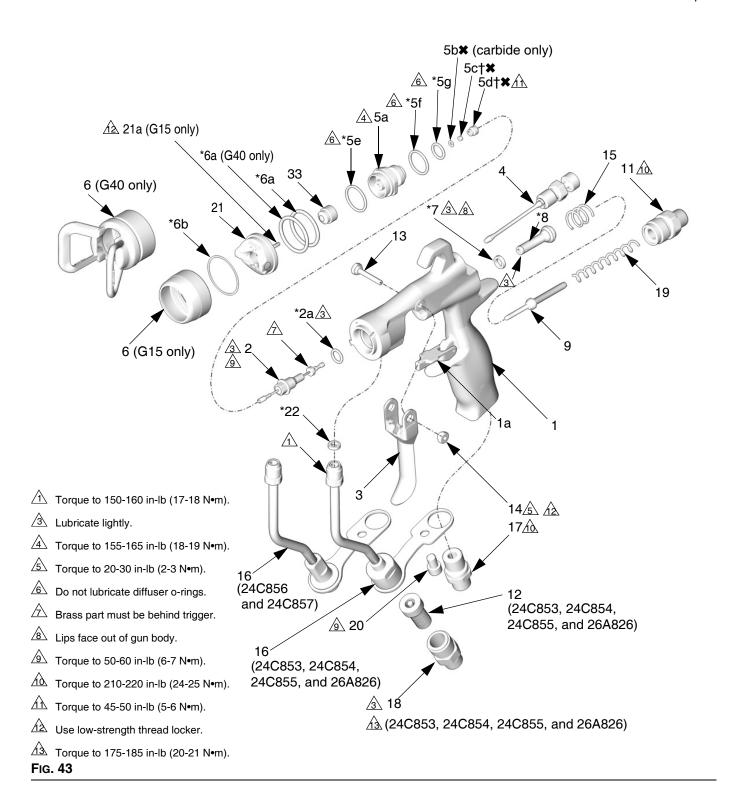
Fig. 41

- 4. Lubricate the front end of the air valve assembly (8*). Gently slide the air valve assembly into the back of the gun, passing through the u-cup (7*), as far as it will go. Be careful not to damage the u-cup. See Fig. 43.
- 5. Carefully insert the thinner end of the shaft (9) into the air valve (8*).
- 6. Install the two springs (15 and 19). Screw the spring cap (11) into the back of the gun body. Torque to 210-220 in-lb (24-25 N•m).
- 7. Lightly lubricate the needle assembly o-rings and shaft where the packing slides. Be sure that the o-ring (2a*) is in place in the gun body (1).

8. Insert the fluid needle assembly (2) into the front of the gun. Use the nut driver (29) to screw the fluid needle assembly into the gun body (1) and torque to 50-60 in-lb (6-7 N•m). See Fig. 42.



- 9. Install the trigger (3), pivot pin (13), and nut (14). Use low strength thread locker and be sure that the brass piece of the fluid needle assembly (2) is behind the trigger. See Fig. 43. Lubricate both sides of the pivot pin where the trigger contacts the pin and lubricate the boss on both sides of the gun where the trigger contacts the gun body. Torque the nut to 20-30 in-lb (2-3 N•m).
- Trigger the gun to pull the needle back while you screw the diffuser assembly (5) into the gun body (1) using the gun tool (30). Torque to 155-165 in-lb (18-19 N•m). When properly tightened, the flange will bottom out on the gun.
- 11. Attach the retaining ring (6), air cap (21), and spray tip (33).

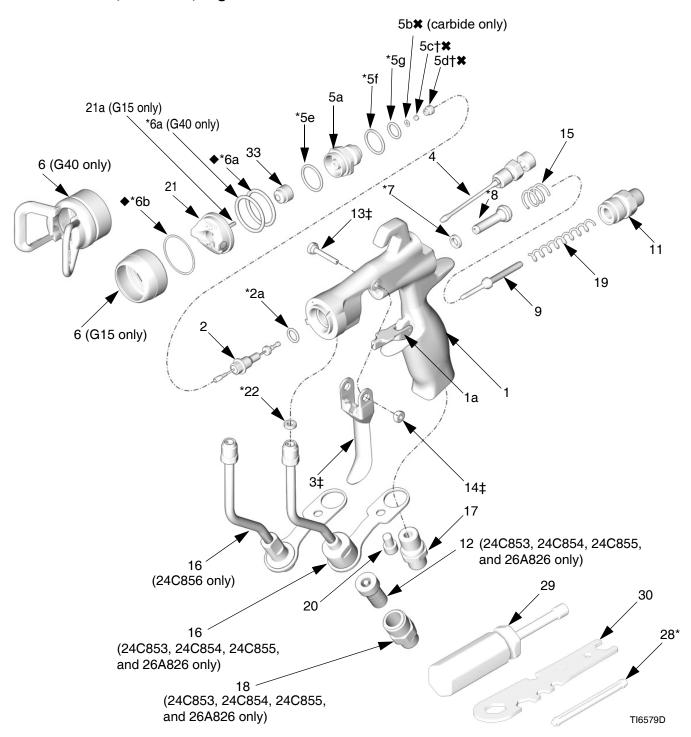


Parts

Part No. 24C853, 24C854, and 26A826, G15 Gun

Part No. 24C855, G40 Gun

Part No. 24C856, G40 Gun, High Flow



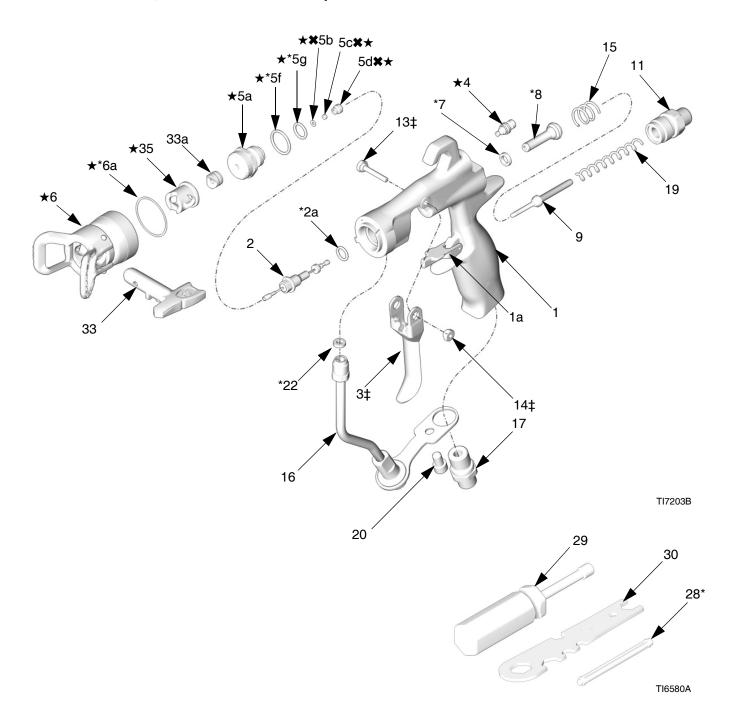
Part No. 24C854, G15 Gun with Plastic Seat Part No. 24C853, G15 Gun with Carbide Seat Part No. 26A826, G15 Gun with Carbide Seat, Lacquer Air Cap

Ref.			Qty	Ref.			Qty
No.	Part No.	Description	•	No.		Description	•
1		BODY, gun	1	19	119767	SPRING, compression	1
1a	249423	STOP, trigger	1			(24C854 and 26A826 only)	
2	24B790	NEEDLE, assy; 3/32 ball; sst	1		115141	SPRING, compression	1
		includes items 2a (24C854 only)				(24C853 only)	
		and 9		20	119996	SCREW, cap, socket hd; 1/4-20 x	1
	24B789	NEEDLE, assy; 3/32 ball; carbide	1		0.40000	3/8 in. (10 mm)	
		includes items 2a (24C853 and		21	24C866	AIR CAP, includes item 21a	1
		26A826 only) and 9			004004	(24C853 and 24C854)	
2a* √	110004	PACKING, o-ring; PTFE	1		26A824	AIR CAP lacquer, includes	1
3‡		TRIGGER, gun	1	04		item 21a	_
4	249135	VALVE, fan, assy	1	21a		PIN, air cap; indexing	1
5	249132	DIFFUSER, assy (24C854 only)	1	00* (445400	(package of 3)	4
	249133	DIFFUSER, assy	1	22* √ 28*	115133	GASKET, tube, acetal	1
r-		(24C853 and 26A826 only)	4	20 29	117642	TOOL, installation; seal TOOL, nut driver	1
5a 5b ≭	288619	DIFFUSER, housing	1 1	30	15F446	TOOL, gun	1
SUA	200019	GASKET, seat; nylon	1	31 ▲	222385	CARD, warning (not shown)	1
5c†		(24C853 and 26A826 only) SEAT; plastic (24C854 only)	1	32▲	172479	TAG, warning (not shown)	i
5c ≭		SEAT; carbide	1	33	.,,	SPRAY TIP, customer's choice	•
JU#		(24C853 and 26A826 only)	'	33a	183616	GASKET, tip (not shown)	1
5d† ≭		NUT, seat	1				
5e*	111116	PACKING, o-ring, seat; PTFE	1	▲ Re _l	placement	Danger and Warning labels, tags, a	nd
5f* √	109450	PACKING, o-ring; PTFE	i	car	ds are ava	nilable at no cost.	
5g* √	111457	PACKING, o-ring; PTFE	1	* Inc	ludad in Si	eal Repair Kit 249422 (purchase	
6	24D438	RING, retaining; includes 6a and	1	1110	naded in St parately).	eai nepaii Kii 249422 (puichase	
		6b		sep	aratery).		
	109213	PACKING, o-ring; PTFE	1	† Inc.	luded in Pl	lastic Seat Repair Kit 249424	
		WASHER; PTFE	1	(pu	rchase se _l	parately).	
7*✓	188493	PACKING, u-cup; UHMWPE	1	₩ Inc	ludad in C	arbide Seat Repair Kit 249456	
8*	404500	VALVE, air, assy	1		rchase se	•	
9	16A529	SHAFT, fluid spring	1	(pu	ichase sej	varately).	
11	15F195	CAP, spring	1	‡ Inc	luded in Ti	rigger Repair Kit 249585	
12 13‡	224453 15F739	FILTER, tip (pkg of 5) PIN, pivot	1	(pu	rchase sej	parately).	
14‡	15F740	PIN, pivot, nut	1	 • Inc	المصانع المصانع	is Can Caal Kit 050000	
15	114069	SPRING, compression	1			ir Cap Seal Kit 253032	
16		TUBE, assy.; includes item 22	i	(pu	rchase se _l	oarately).	
17		FITTING, air inlet	1	✓ No:	t for sale s	eparately.	
18	24D437	FITTING, hose; see Accessories	i			,	
	- "	for fitting with JIC threads					
		3					

Part No. 24C855, G40 Gun with Standard Tip Part No. 24C856, G40 Gun, High Flow

Ref.			Qty	Ref.			Qty
No.	Part No.	Description		No.	Part No.	Description	
1		BODY, gun	1	18	24D437	FITTING, hose (24C855 only);	1
1a	249423	STOP, trigger	1			see Accessories for fitting with	
2	24B789	NEEDLE, assy; 3/32 ball; carbide	1			JIC threads.	
		includes items 2a and 9		19	115141	SPRING, compression	1
2a* √	110004	PACKING, o-ring; PTFE	1	20	119996	SCREW, cap, socket hd; 1/4-20 x	1
3‡		TRIGGER, gun	1			3/8 in. (10 mm) (24C855 only)	
4	249135	VALVE, fan, assy	1	21	249180	AIR CAP	1
5	249133	DIFFUSER, assy	1	22*✓	115133	GASKET, tube, acetal	1
5a		DIFFUSER, housing	1	28*		TOOL, installation; seal	1
5b ≭	288619	GASKET, seat; nylon	1	29	117642	TOOL, nut driver	1
5c ≭		SEAT; carbide	1	30	15F446	TOOL, gun	1
5d ≭		NUT, seat	1	31▲	222385	CARD, warning (not shown)	1
5e*	111116	PACKING, o-ring, seat; PTFE	1	32▲	172479	TAG, warning (not shown)	1
5f* √	109450	PACKING, o-ring; PTFE	1	33		SPRAY TIP, customer's choice	
5g* √	111457	PACKING, o-ring; PTFE	1	33a	183616	GASKET, tip (not shown)	1
6	24D439	TIP GUARD, includes items 6a	1				
		and 6b (24C855 & 24C856 only)		\blacktriangle R	eplacement	Danger and Warning labels, tags, ar	าd
	109213	PACKING, o-ring; PTFE	2	Cá	ards are ava	ilable at no cost.	
	15G320	WASHER; PTFE	1	* In	aludad in Ca	nal Panair Kit 240422 (nurahasa	
7*✓	188493	PACKING, u-cup; UHMWPE	1	"		eal Repair Kit 249422 (purchase	
8*		VALVE, air, assy	1	Se	eparately).		
9	16A529	SHAFT, fluid spring	1	× In	cluded in Ca	arbide Seat Repair Kit 249456	
11	15F195	CAP, spring	1		urchase sep		
12	224453	FILTER, tip (pkg of 5, 24C855	1		•	•,	
	-	only)				igger Repair Kit 249585	
13‡	15F739	PIN, pivot	1	(p	urchase sep	parately).	
14‡	15F740	PIN, pivot, nut	1	♦ In	oluded in Ai	r Cap Seal Kit 253032	
15	114069	SPRING, compression	1				
16	24D436	TUBE, assy, includes item 22	1	(L	urchase sep	varatety).	
	0.40047	(24C855 only)		✓ N	ot for sale se	eparately.	
4-	249317	TUBE, assy (24C856 only)	1			,	
17	15F202	FITTING, air inlet	1				

Part No. 24C857, G40 Gun with RAC Tip



Qty

Part No. 24C857, G40 Gun with RAC Tip

			Qty				Qty
Ref. No	. Part No.	Description		Ref. No	o. Part No.	Description	
1		BODY, gun	1	22*✓	115133	GASKET, tube, acetal	1
1a	249423	,	1	28*		TOOL, installation; seal	1
2		NEEDLE, assy; 3/32 ball; carbide	1	29	117642	TOOL, nut driver	1
		includes items 2a and 9		30	15F446	TOOL, gun	1
2a* √	110004	PACKING, o-ring; PTFE	1	31▲	222385	CARD, warning (not shown)	1
3‡	110001	TRIGGER, gun	1	32▲	172479	TAG, warning (not shown)	1
4★	15G713	NUT, air plug	1	33		SPRAY TIP, customer's choice,	1
5★	249877		1			see tip selection chart page 32,	
5a ★	_ 10077	DIFFUSER, housing	1			includes item 33a	
5b ≭ ★	288619	GASKET, seat; nylon	1	33a	246453	RAC GASKET, standard, black	1
5c ≭ ★	2000.0	SEAT; carbide	1		248936		
5d ≭ ★		NUT, seat	1			orange	
	111116	PACKING, o-ring, seat; PTFE	1	35★	15F442		1
5f* ★ ✓		PACKING, o-ring; PTFE	1			, . ,	-
5g* ★ ✓	111457	, 0,	1	▲ Rep	lacement	Danger and Warning labels, tags, a	and
6★	24C921		1			ilable at no cost.	
		includes item 35		oard	io are avai	iable at no boot.	
6a* ★ ✓	109213	PACKING, o-ring, PTFE	1	* Part	ts includea	l in Seal Repair Kit 249422 (purcha	ise
7*✓	188493		1	sepa	arately).		
8*		VALVE, air, assy	1	•• David		Lin Caulaida Caat Banain Kit 04045	_
9	16A529	SHAFT, fluid spring	1			I in Carbide Seat Repair Kit 249450)
11	15F195		1	(pur	chase sep	parately).	
13‡	15F739	PIN, pivot	1	† Parl	s included	l in Trigger Repair Kit 249585 (pur-	
14‡	15F740	PIN, pivot, nut	1		se separat		
15	114069	SPRING, compression	1	Ulla	se separai	ciy).	
16	249317	TUBE, assy	1	★ Part	ts includea	l in RAC Conversion Kit 24C791 (p	ur-
17	15F202		1	chas	se separat	tely).	
19	115141		1		•	• /	
20	119996	SCREW, cap, socket hd; 1/4-20 x	1	✓ Not	for sale se	eparately.	
		3/8 in. (10 mm)					

Spray Tip Selection Chart

Spray Tips, for use with G15/G40 Air Cap

AAM Fine Finish Spray Tips

Recommended for *high finish quality applications* at *low and medium pressures*. Order desired tip, **Part No. AAMxxx**, where xxx = 3-digit number from matrix below.

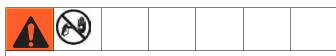
GG4 Industrial Spray Tips

Recommended for *high wear applications* at *high pressures*.

Order desired tip, **Part No. GG4xxx**, where xxx = 3-digit number from matrix below.

NOTE:

- All tips in the Spray Tip Selection Chart below can be used with Model G40 guns. Use tips in the gray shaded area of the chart with Model G40 guns only.
- Do not use tips in the gray shaded area of the chart with Model G15 guns.



Do not use tips in the gray shaded area of the Spray Tip Selection Chart with Model G15 guns. G15 guns are not designed for use at high pressures. Failure to follow this warning can result in serious injury, including fluid injection and splashing in the eyes or on the skin.

		d Output nin (lpm)	Maximum Pattern Width at 12 in. (305 mm) in. (mm)									
Orifice Size	at 600 psi (4.1 MPa,	at 1000 psi (7.0 MPa,	2 to 4 (100)		6 to 8 (200)	8 to 10 (250)	10 to 12 (300)	12 to 14 (350)	14 to 16 (400)	16 to 18 (450)	18 to 20 (500)	
in. (mm)	41 bar)	70 bar)		Spray Tip								
† 0.007 (0.178)	4.0 (0.1)	5.2 (0.15)	★ 107	207	307							
† 0.009 (0.229)	7.0 (0.2)	9.1 (0.27)	109	209	309	409	509					
† 0.011 (0.279)	9.5 (0.28)	12.5 (0.37)	111	211	311	411	511	611	*711			
0.013 (0.330)	12.0 (0.35)	16.0 (0.47)		213	313	413	513	613	713			
0.015 (0.381)	16.0 (0.47)	21.0 (0.62)		215	315	415	515	615	715	815		
0.017 (0.432)	20.0 (0.59)	26.5 (0.78)		217	317	417	517	617	717	817	917	
0.019 (0.483)	28.0 (0.8)	36.3 (1.09)		219	319	419	519	619	719	819	919	
0.021 (0.533)	35.0 (1.0)	45.4 (1.36)			321	421	521	621	721	821	921	
‡ 0.023 (0.584)	40.0 (1.2)	51.9 (1.56)				423	523	623	723		923	
‡ 0.025 (0.635)	50.0 (1.5)	64.8 (1.94)				425		625	725	825	★925	
‡ 0.027 (0.686)	58.5 (1.7)	75.8 (2.27)					527	627		827		
‡ 0.029 (0.737)	68.0 (1.9)	88.2 (2.65)						629				
‡ 0.031 (0.787)	78.0 (2.2)	101.1 (3.03)				431		631				
‡ 0.033 (0.838)	88.0 (2.5)	114.1 (3.42)						633		★833		
‡ 0.035 (0.889)	98.0 (2.8)	127.1 (3.81)				435						
‡ 0.037 (0.940)	108.0 (3.1)	140.0 (4.20)							737			
‡ 0.039 (0.991)	118.0 (3.4)	153.0 (4.59)				_	539	639	_	839		

Tips are tested in water.

Fluid output (Q) at other pressures (P) can be calculated by this formula: $Q = (0.041) (QT) \sqrt{P}$ where QT = fluid output (fl oz/min) at 600 psi from the above table for the selected orifice size.

- † These tip sizes include a 150 mesh tip filter.
- ★ GG4 tips only.
- ‡ Do not use these tips with Model G15 guns.
- * AAM tips only.

AAF Fine Finish Pre-Orifice Spray Tips

Recommended for high finish quality applications at low and medium pressures. AAF tips have a pre-orifice that assists in atomizing sheer thinning materials, including lacquers.

Order desired tip, **Part No. AAFxxx**, where xxx = 3-digit number from matrix below.

	* Fluid fl oz/m		Maximum Pattern Width at 12 in. (305 mm) in. (mm)						
Orifice Size	at 600 psi (4.1 MPa, 41	at 1000 psi (7.0 MPa, 70	4 to 6 (150)	6 to 8 (200)	8 to 10 (250)	10 to 12 (300)	12 to 14 (350)	14 to 16 (400)	
in. (mm)	bar)	bar)			Sp	ray Tip			
0.009 (0.229)	7.0 (0.21)	8.5 (0.25)	208	308	408				
0.011 (0.279)	9.5 (0.28)	12.5 (0.37)	210	310	410	510	610	710	
0.013 (0.330)	12.0 (0.35)	16.0 (0.47)	212	312	412	512	612	712	
0.015 (0.381)	16.0 (0.47)	21.0 (0.62)			414	514	614	714	
0.017 (0.432)	20.0 (0.59)	26.5 (0.78)			416	516	616	716	

Tips are tested in water.

Fluid output (Q) at other pressures (P) can be calculated by this formula: $Q = (0.041) (QT) \sqrt{P}$ where QT = fluid output (fl oz/min) at 600 psi from the above table for the selected orifice size.

RAC SwitchTips, for use with G40 RAC Air Cap

NOTE: All tips in the Spray Tip Selection Charts below can be used with Model G40 guns equipped with RAC air cap 24C921.

NOTE: Tips are sometimes packaged with other promotional parts intended for the airless market. Disregard extra parts.

LTX RAC Spray Tips

Order desired tip, **Part No. LTXxxx**, where xxx = 3-digit number from matrix below.

			❖ Maximum Pattern Width at 12 in. (305 mm) in. (mm)								
Orifice Size in.	* Fluid Output, at 2000 psi (14.0 MPa, 140 bar)	2 to 4 (100)		6 to 8 (200)	8 to 10 (250)	10 to 12 (300)	12 to 14 (350)	14 to 16 (400)	16 to 18 (450)	18 to 20 (500)	
(mm)	fl oz/min (lpm)					Spr	ay Tip				
0.009 (0.229)	11.2 (0.33)	109	209	309	409	509					
0.011 (0.279)	16.6 (0.49)	111	211	311	411	511	611				
0.013 (0.330)	23.3 (0.69)		213	313	413	513	613				
0.015 (0.381)	30.8 (0.91)	115	215	315	415	515	615				
0.017 (0.432)	39.5 (1.17)		217	317	417	517	617		817		
0.019 (0.483)	49.7 (1.47)		219	319	419	519	619		819		
0.021 (0.533)	60.5 (1.79)		221	321	421	521	621	721	821		
0.023 (0.584)	72.7 (2.15)			323	423	523	623	723			
0.025 (0.635)	85.9 (2.54)		225	325	425	525	625				
0.027 (0.686)	100.0 (2.96)		227	327	427	527	627		827		
0.029 (0.737)	115.6 (3.42)			329	429	529	629	729			
0.031 (0.787)	131.8 (3.90)		231	331	431	531	631		831		
0.033 (0.838)	149.4 (4.42)				433	533	633		833		
0.035 (0.889)	168.4 (4.98)		235	335	435	535	635	735	835		

Tips are tested in water.

Fluid output (Q) at other pressures (P) can be calculated by this formula: $Q = (0.041) (QT) \sqrt{P}$ where QT = fluid output (fl oz/min) from the above table for the selected orifice size.

Measured with NO airflow. Air assist will tend to reduce pattern lengths by 1 in. to 2 in.

RAC SwitchTips, for use with G40 RAC Air Cap, Continued

NOTE: All tips in the Spray Tip Selection Charts below can be used with Model G40 guns equipped with RAC air cap 24C921.

FFT Fine Finish RAC Spray Tips

Order desired tip, **Part No. FFTxxx**, where xxx = 3-digit number from matrix below.

		* Maximum Pattern Width at 12 in. (305 mm) in. (mm)				
Orifice Size in.	* Fluid Output at 2000 psi (14.0 MPa, 140 bar)	4 to 6 (150)	6 to 8 (200)	8 to 10 (250)	10 to 12 (300)	12 to 14 (350)
(mm)	fl oz/min (lpm)			Spray Tip		
0.008 (0.203)	8.8 (0.26)	208	308			
0.010 (0.254)	13.9 (0.41)	210	310	410	510	
0.012 (0.305)	19.9 (0.59)	212	312	412	512	612
0.014 (0.356)	27.0 (0.80)	214	314	414	514	614

WRX WideRAC Spray Tips

Order desired tip, **Part No. WRxxxx**, where xxxx = 4-digit number from matrix below.

Orifice Size	* Fluid Output at 2000 psi (14.0 MPa, 140 bar)	* Maximum Pattern Width at 12 in. (305 mm) 24 in. (610 mm)
in. (mm)	fl oz/min (lpm)	Spray Tip
0.021 (0.533)	60.5 (1.79)	1221
0.023 (0.584)	72.7 (2.15)	1223
0.025 (0.635)	85.9 (2.54)	1225
0.027 (0.686)	100.0 (2.96)	1227
0.029 (0.737)	115.6 (3.42)	1229
0.031 (0.787)	131.8 (3.90)	1231
0.033 (0.838)	149.4 (4.42)	1233
0.035 (0.889)	168.3 (4.98)	1235
0.037 (0.940)	187.9 (5.56)	1237
0.039 (0.991)	208.9 (6.18)	1239

^{*} Tips are tested in water.

Fluid output (Q) at other pressures (P) can be calculated by this formula: Q = (0.041) (QT) \sqrt{P} where QT = fluid output (fl oz/min) from the above table for the selected orifice size.

Measured with NO airflow. Air assist will tend to reduce pattern lengths by 1 in. to 2 in.

Accessories

Use Only Genuine Graco Parts and Accessories

Air Fitting and Tubing Kit 249473

Alternative-style connector for air inlet and hose. 3/8 in. to 1/4 npt(f) Push-To-Lock fitting, 25 ft (7.62 m) long, 3/8 in. (9.5 mm) ID, nylon tubing.

Air Hose 241811

100 psi (0.7 MPa, 7 bar) Maximum Working Pressure 1/4-18 npsm(fbe), 1/4 in. (6 mm) ID, 25 ft (7.62 m) long polyurethane tubing.

Air Line Quick Disconnect

208536 Air Line Quick Disconnect Coupling169967 Air Line Quick Disconnect Pin

Fluid Filter Kits

224453 100 mesh (.005 gap spacing) replacement fluid filters. Quantity. of 5.

238563 60 mesh (.009 gap spacing) replacement

fluid filters for coarser particle filtering to replace standard 100 mesh filters. Quantity of 2

tity of 3.

Fluid Hose 241812

3500 psi (24 MPa, 242 bar) Maximum Working Pressure 1/4-18 npsm(fbe), 3/16 in. (5 mm) ID, 25 ft (7.62 m) long, nylon tubing with polyurethane cover.

Fluid Swivel Connector 189018

5800 psi (40 MPa, 400 bar) Maximum Working Pressure Connector to ease movement of the gun and fluid hose. 1/4-18 npsm. 17-4 PH SST wetted parts.

Gun Brush 101892

Use to clean the gun.

G15 Gun Flush Box Insert 15G093

Insert for use with Gun Flush Box 244105 and G15 Spray Guns.

G40 Gun Flush Box Insert 15G346

Insert for use with Gun Flush Box 244105 and G40 Spray Guns.

Gun Lubricant 111265

One 4 oz. (113 g) tube sanitary (non-silicone) lubricant for fluid seals and wear areas.

High Pressure Fluid Ball Valve 238694

5000 psi (35 MPa, 350 bar) Maximum Working Pressure 3/8 npt(mbe). SST wetted parts, PEEK seats, PTFE seals. Compatible with acid-catalyzed materials. Can be used as fluid drain valve.

HVLP Verification Kit 24C788

Use to check air cap air pressure at various air supply air pressures. **Do not use for actual spraying.**

NOTE: To be HVLP compliant, the atomizing air pressure must not exceed 10 psi (70 kPa, 0.7 bar).

RAC Gasket 246453

Pack of five standard replacement RAC gaskets (item 33a).

Acetal RAC Gasket 248936

Pack of five plastic (acetal) replacement RAC gaskets (item 33a).

Tip Gasket Repair Kit 26C713

Kit includes a pack of ten sealing washers.

G40 RAC Conversion Kit 24C791

Kit includes parts to convert a standard G40 gun to a RAC gun. LTX spray tip not included.

Air Cap Lacquer Kit 289080

Kit includes air cap optimized to spray lacquer.

Air Cap Seal Kit 253032

Pack of five seals and five o-rings for the air cap assy.

Seal Repair Kit 249422

Kit includes replacement o-rings, gasket, u-cup, air valve assembly, and seal installation tool.

Plastic Seat Repair Kit 249424

Kit includes replacement plastic seat (pack of 10), and seat nut for Model G15 gun.

SST Seat Repair Kit 287962

Kit includes assembled diffuser with SST seat for use with pigmented acid catalyzed materials. For use with gun 24C854 only.

Carbide Seat Repair Kit 249456

Kit includes replacement carbide seat, seat gasket, and seat nut for Model G40 gun. Kit also can be used with Model G15 guns.

Carbide Seat Gasket Kit 288619

Kit includes replacement nylon seat gaskets (qty. of ten) for Model G40 guns and G15 guns with a carbide seat.

Tip Filter Kit 241804

Replacement filters for spray tip orifice sizes 0.007, 0.009, and 0.011. Quantity of 10.

Trigger Repair Kit 249585

Kit includes replacement trigger, pivot pins (qty. of 5), and pivot pin nuts (qty. of 5).

Trigger Stop Kit 249423

Kit includes replacement trigger stop and pin.

Ultimate Gun Cleaning Kit 15C161

Kit includes brushes and tools for gun maintenance.

Unclogging Needle Kit 249598

Kit includes picks for unclogging gun tip.

Fan Valve Fine Adjustment Kit 289499

Kit includes a replacement fan valve assembly with more adjustment accuracy.

Fluid Fitting Kit 24C356, JIC Threads

Kit includes a 1/2-20 JIC threaded fluid inlet fitting.

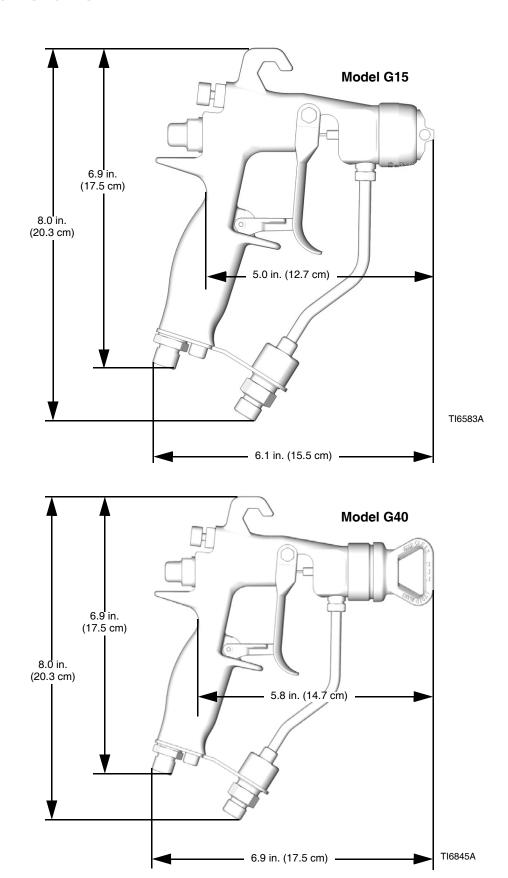
Part Interchangeability Guide

Description	Part Number New Models (24Cxxx)	ew Models Part Number,		Interchangeable?		
Fluid spring shaft	16A529	15F193 15F194	Yes	16A529 combines the fluid spring shaft and seat into a single part. Directly replaceable.		
Locating pin	24D627	15G618	No	New pin is shorter to match the new gun body. Using a new pin/air cap combo on an old model gun results in loss of the alignment feature. Using an old pin/air cap combo on a new model gun causes leakage due to improper fit.		
G15 retaining ring kit Includes retaining ring, PTFE o-ring, and PTFE washer	24D438	15F192	No	See note below table.		
G40 retaining ring/tip guard kit Includes retaining ring with guard, PTFE o-ring, and PTFE washer	24D439	249256	No	See note below table		
RAC seat housing	15F442	15J770	No	Works properly only with RAC Tip Guard/Air Cap Assembly 24C921 and is included in that kit. Seat will fit into older model assemblies, but spray performance may be affected.		
AA RAC guard kit Includes guard assembly (with retaining ring) and mating cylinder housing.	24C921	288465	No	See note below table.		
Needle, carbide ball, G15 and G40	24B789	288559	Yes	Directly replaceable.		
Needle, stainless steel ball, G15	24B790	288558	Yes	Directly replaceable.		
HVLP verification kit	24C788	249140	No	See note below table.		
RAC gun conversion kit	24C791	287917	No	Can only be used on the new gun due to a different RAC guard. See note below table.		
G15 air cap	24C866	249596	No	Uses new shorter locating pin. See note for Locating pin , this table.		
Fluid tube assembly	24D436	249136	Yes	The new fluid tube assembly will fit an older gun only if a new fluid fitting is purchased, 24D437 (standard threads) or 24C356 (JIC threads).		
Fluid fitting, standard threads	24D437	15F186	No	New fluid fittings have different threads that fit only the new fluid tube assembly (24D436). Any		
Fluid fitting, JIC threads	24C356	NA	No	interchange will damage the threads.		

NOTE: The new retaining ring is black and has coarse threads, while the old retaining ring is silver and has fine threads. Any interchange will damage the threads on the ring and gun body.

^{*} Older model part numbers include 288xxx, 287xxx, 249xxx.

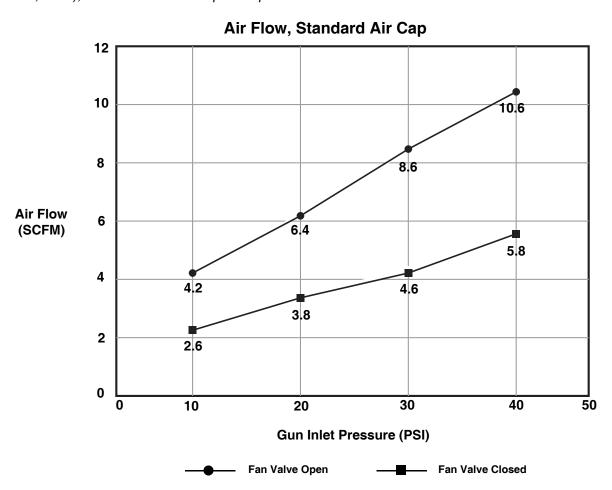
Dimensions



Technical Data

Category	Data
Maximum Working Fluid Pressure	Model G15: 1500 psi (10 MPa, 105 bar)
	Model G40: 4000 psi (28 MPa, 280 bar)
Maximum Working Air Pressure	100 psi (0.7 MPa, 7 bar)
Maximum Gun Inlet Air Pressure for HVLP Operation	14 psi (0.098 MPa, 0.98 bar)
Maximum Working Fluid Temperature	110°F (43°C)
Fluid Inlet	1/4-18 npsm
Air Inlet	1/4-18 npsm (R1/4-19) compound male thread
Gun Weight	16 oz (450 grams)
*Sound Pressure at 20 psi (140 kPa, 1.4 bar)	66.9 dB(A)
*Sound Pressure at 100 psi (0.7 kPa, 7 bar)	80.0 dB(A)
*Sound Power at 20 psi (140 kPa, 1.4 bar)	76.8 dB(A)
*Sound Power at 100 psi (0.7 kPa, 7 bar)	89.9 dB(A)
Wetted Parts	· · · · · · · · · · · · · · · · · · ·
	Polyethylene, Engineered Plastic, PTFE, Nylon, Fluoro-
	elastomer

^{*} All readings were taken with the fan valve fully closed (full fan size), at 20 psi (140 kPa, 1.4 bar) and 100 psi (0.7 kPa, 7 bar), and at the assumed operator position. Sound Power was tested to ISO 9614-2.



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Original instructions. This manual contains English. MM 3A0149

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