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Gun Repair Kit No. 702736

Manual

Professional Gravity Feed Spray Gun





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NOTE:

When used with the HVLP cap, this gun can be used anywhere—both in mandated HVLP and unregulated areas.

When used with the High Efficiency cap, this gun can be used in unregulated areas and certain approved regulated areas.

Consult your local air quality management agency with any questions regarding HVLP or compliance requirements in your area.



Product Description/Object of Declaration: TEKNA

This Product is designed for use with:Solvent and Water based Materials

Suitable for use in hazardous area: Zone 1 / Zone 2

Protection Level: II 2 G X

Notified body details and role: TRAC Global Ltd (0891)

Lodging of Technical file

EU Declaration of Conformity



The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Machinery Directive 2006/42/EC

ATEX Directive 2014/34/EU

by complying with the following statutory documents and harmonized standards:

EN ISO 12100:2010 Safety of Machinery - General Principles for Design

BS EN 1953:2013 Atomising and spraying equipment for coating materials - Safety requirements

EN 1127-1:2011 Explosive atmospheres - Explosion prevention - Basic concepts

EN 13463-1:2009 Non electrical equipment for use in potentially explosive atmospheres - Basic methods and requirements

Providing all conditions of safe use / installation stated within the product manuals have been complied with and also installed in accordance with any applicable local codes of practice.

Director of Sales (EMEA)

Signed for and on behalf of Finishing Brands UK Ltd:







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Technical Bulletin TEKNA Gravity Feed Spray Gun

IMPORTANT: Read and follow all instructions and Safety Precautions before using this equipment. Keep for future use.

The TEKNA Gravity Feed Spray Gun Kit complies to ATEX regulations 94/9/EC, protection level **II 2 G X, Suitable for use in Zones 1 and 2.**

DeVilbiss Automotive Refinishing reserves the right to modify equipment specification without prior notice.

Operational Description

The TEKNA Spray Gun is a lightweight professional spray gun designed to handle both water-based and solvent-based coating materials. Both HVLP and high efficiency models are available.

High volume, low pressure (HVLP) models are designed to reduce overspray and provide maximum transfer efficiency by limiting air cap pressure to 0.7 bar (10 psi) (complies with rules issued by SCAQMD and other air quality authorities).

HVLP models will produce approximately 0.7 bar (10 psi) air cap pressure at 1.8 bar (26 psi) gun inlet pressure with the trigger pulled. HVLP air cap #202 is designed for optimum basecoat applications. HVLP air cap #909 is designed for optimum clear coat applications. Two air cap test kits are available (see **Accessories**) which can be utilized to set the exact air cap pressure.

High efficiency models use air cap #7E7. These models are designed to provide optimum atomization of virtually all waterborne or solvent-based common coating materials at increased application rates while maintaining very high transfer efficiency. High efficiency models, when tested under recommended conditions with automotive refinishing materilas, have been found to exceed 65% transfer efficiency.

High efficiency models comply with SCAQMD rules and certain other air quality authorities.

IMPORTANT: These guns are not designed for use with highly corrosive and/or abrasive materials and if used with such materials it must be expected that the need for cleaning and/or replacement of parts will be increased. If there is any doubt regarding the suitability of a specific material, contact your TEKNA Distributor or TEKNA direct.

NOTE: This gun is <u>not</u> to be used with halogenated hydrocarbon solvents or cleaning agents such as 1,1,1,-Trichloroethane or methylene chloride. These solvents can react with the aluminium components used in this gun and cup. The reaction can become violent and lead to an equipment explosion.





| 1 | Air Cap (nickel plated brass for long durability) |
|---|--|
| 2 | Air Cap Retaining Ring (allows easy rotation of air cap) |
| 3 | Fluid Nozzle (not visible, ideal for automotive topcoat systems) |
| 4 | Fluid Needle (not visible) |

- 5 Fluid Inlet (3/8 BSP thread accepts TEKNA & DeVilbiss cups)
- 6 Air Inlet (universal thread, accepts G 1/4 & 1/4 NPS)
- 7 | Self Adjusting Needle Packing (packing not visible, for long packing life)
- 8 Trigger (ergonomic for comfort)
- 9 Trigger Stud & Screw (easy replacement design)
- 10 Fan Air Adjustment (stepless regulation for flat to round spray)
- 11 Fluid Adjustment (stepless regulation of fluid volume)
- 12 Removable Air Separator (not visible, for long gun service life)
- 13 Interchangeable Colour ID System (4 coloured rings supplied)
- 14 Forged gun body (ergonomic, good looking & durable, easy to clean)
- 15 900cc Aluminium Cup (easy clean) (shown) or 20 oz. Acetal Cup (waterbourne) (not shown)
- 16 Push On Lid w/Drip Free Vent (disposable/easy clean design) (aluminum cup) or screw-on lid w/vent (acetal Cup)
- 17 Air Valve (design offers low pull force & low pressure drop)
- 18 Gun acceptable for waterborne and solvent borne applications

Materials of Construction

| Gun Body | Anodized aluminium |
|--|-------------------------|
| Air Cap | Nickel plated brass |
| Fluid Nozzle, Fluid Needle, Fluid Inlet, Trigger Stud | Stainless steel |
| Air Separator, Air Cap Retaining Ring, Knobs | Anodized aluminium |
| Springs, Clips, Screws | Stainless steel |
| Seals, Gaskets | Solvent resistant |
| Trigger | Chrome plated steel |
| Handle Plug, Air Inlet, Body Bushing, Spreader Valve Body, Air Valve Nut | Chrome plated brass |
| Air Valve Assembly | Stainless steel, acetal |

Specifications & Technical Data

| • | |
|--|-----------------------------------|
| Air Supply Connection | Universal 1/4" BSP and 1/4" NPS |
| Maximum Static Air Inlet Pressure | P1 = 12 bar (175 psi) |
| Nominal Gun Air Inlet Pressure for HVLP Models (with gun triggered) | 1.8 bar (26 psi) |
| Nominal Gun Air Inlet Pressure for High Efficiency Models – (with gun triggered) | 1.5 bar (22 psi) (for compliance) |
| Air Consumption | See Chart 1 on page 11 |
| Fluid Supply Connection | 3/8" BSP |
| Service Temperature | 0 to 40°C (32 to 100°F) |
| Gun Weight (gun only) | 478g (16.9 oz.) |



Safety Precautions



PROP 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

This bulletin contains information that is important for you to know and understand. This information relates to USER SAFETY and PRE-VENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following symbols. Please pay particular attention to these sections.

WARNING

CAUTION

NOTE

Important safety information – A hazard that may cause serious injury or loss of life.

Important information that tells how to prevent damage to equipment, or how to avoid a situation that may cause minor injury.

Information that you should pay special attention to.

The following hazards may occur during the normal use of this equipment. Please read the following chart before using this equipment.

| HAZARD | CAUSE | SAFEGUARDS |
|---|--|---|
| Fire | Solvent and coatings can be highly flammable or combustible especially when sprayed. | Adequate exhaust must be provided to keep air free of accumulations of flammable vapours. |
| | | Smoking must never be allowed in the spray area. |
| | | Fire extinguishing equipment must be present in the spray area. |
| Solvent Spray | During use and while cleaning and flushing, solvents can be forcefully expelled from fluid and air passages. Some solvents can cause eye injury. | Wear eye protection. |
| Inhaling Toxic Substances | Certain materials may be harmful if inhaled, or if there is contact with the skin. | Follow the requirements of the Safety Data Sheet supplied by your coating material manufacturer. |
| | | Adequate exhaust must be provided to keep the air free of accumulations of toxic materials. |
| | | Use a mask or respirator whenever there is a chance of inhaling sprayed materials. The mask must be compatible with the material being sprayed and its concentration. Equipment must be as prescribed by an industrial hygienist or safety expert, and be NIOSH approved. |
| Explosion Hazard – Incompatible Materials | Halogenated hydrocarbon solvents – for example; methylene chloride and 1,1,1,-Trichloroethane are not chemically compatible with the aluminium that might be used in many system components. The chemical reaction caused by these solvents reacting with aluminium can become violent and lead to an equipment explosion. | Guns with stainless steel internal passageways may be used with these solvents. However, aluminium is widely used in other spray application equipment – such as material pumps, regulators, valves, and cups. Check all equipment items before use and make sure they can also be used safely with these solvents. Read the label or data sheet for the material you intend to spray. If in doubt as to whether or not a coating or cleaning material is compatible, contact your material supplier. |
| General Safety | Improper operation or maintenance of equipment. | Operators should be given adequate training in the safe use and maintenance of the equipment (in accordance with the requirements of NFPA-33, Chapter 15). Users must comply with all local and national codes of practice and insurance company requirements governing ventilation, fire precautions, operation, maintenance, and housekeeping. These are OSHA Sections 1910.94 and 1910.107 and NFPA-33. |
| Cumulative Trauma disorders ("CTD's") | Use of hand tools may cause cumulative trauma disorders ("CTD's"). | Pain, tingling, or numbness in the shoulder, forearm, wrist, hands, or fingers, especially during the night, may be early symptoms of a CTD. Do not ignore |
| CTD's, or musculoskeletal disorders, involve damage to the hands, wrists, elbow, shoulders, neck and back. | CTD's, when using hand tools, tend to affect the upper extremities. Factors which may increase the risk of developing a CTD include: | them. Should you experience any such symptoms, see a physician immediately. Other early symptoms may include vague discomfort in the hand, loss of manual dexterity, and nonspecific pain in the arm. Ignoring early symptoms and continued repetitive use of the arm, wrist, and hand can lead to serious disability. |
| Carpal tunnel syndrome and tendonitis (such as tennis elbow or rotator cuff syndrome) are examples of CTD's. | High frequency of the activity. Excessive force, such as gripping, pinching, or pressing with the hands and fingers. Extreme or awkward finger, wrist, or arm positions. Excessive duration of the activity. Tool vibration. Repeated pressure on a body part. Working in cold temperatures. | Risk is reduced by avoiding or lessening factors 1-7. |
| | CTD's can also be caused by such activities as sewing, golf, tennis, and bowling, to name a few. | |



INSTALLATION

For maximum transfer efficiency, do not use more pressure than is necessary to atomise the material being applied.

1. Connect the gun to a clean, moisture and oil free air supply using a hose size of at least 8 mm (5/16") I.D. hose. Do not use 6 mm I.D. hose (8 m x 6 mm hose at 510 LPM has a pressure loss of 1.8 bar. 8 m x 8 mm hose at 510 LPM has a pressure loss of 0.6 bar. [Do not use 1/4" I.D. hose (25' x 1/4" hose at 18 CFM has a pressure loss of 25 psi. 25' x 5/16" hose at 18 CFM has a pressure loss of 8 psi).] Depending on hose length, larger I.D. hose may be required.

NOTE

When gun is triggered on, adjust inlet air pressure (for recommended pressures see Chart 1 under Parts Replacement) at the gun inlet. (Pressure gauge shown under Accessories is recommended for this). **Do not use more pressure than is necessary to atomise the material being applied.** Excess pressure will create additional overspray and reduce transfer efficiency.

NOTE

If quick connects are required, use only high flow quick connects approved for HVLP use. Other types will not flow enough air for proper gun operation.

NOTE

If an air adjusting valve is used at the gun inlet, use a DeVilbiss air adjusting valve. Some competitive adjusting valves have significant pressure drop that can adversely affect spray performance. DeVilbiss air adjusting valves have minimal pressure drop.

2. Attach the gravity feed cup to the material inlet.

NOTE

Protective coating and rust inhibitors have been used to keep the gun in good condition prior to shipment. Before using the gun, flush it with solvents so that these materials will be removed from fluid passages.

OPERATION

- Mix coating material to manufacturer's instructions and strain material.
- Fill the cup with the required amount of material.
 Fill to no more than 19 mm (3/4") from the top of the cup.
 DO NOT OVERFILL.
- 3. Attach Cup Lid.
- 4. Turn fluid adjusting knob (18) clockwise to prevent fluid needle movement.
- Turn spreader valve adjusting knob (23) counter clockwise to fully open.
- Trigger gun on and adjust inlet air pressure (for recommended figures see Chart 1 under Parts Replacement) at the gun inlet. (Pressure gauge shown under Accessories is recommended for this).
- 7 Turn fluid adjusting knob counter clockwise until first thread shows.
- 8. Test spray. If the finish is too dry, reduce airflow by reducing air inlet pressure.

- 9. If finish is too wet, reduce fluid flow by turning fluid adjusting knob (18) clockwise. If atomisation is too coarse, increase inlet air pressure. If too fine, reduce inlet pressure.
- The pattern size can be reduced by turning spreader valve adjusting knob (23) clockwise.
- Hold gun perpendicular to surface being sprayed. Arcing or tilting may result in uneven coating.
- 12. The recommended spray distance is 150-200 mm (6"-8").
- Spray edges first. Overlap each stroke a minimum of 75%. Move gun at a constant speed.
- Always turn off air supply and relieve pressure when gun is not in use.

PREVENTIVE MAINTENANCE & CLEANING

To clean air cap and fluid nozzle, brush exterior with a stiff bristle brush. If necessary to clean cap holes, use a broom straw or toothpick if possible. If a wire or hard instrument is used, extreme care must be used to prevent scratching or burring of the holes which will cause a distorted spray pattern.

To clean fluid passages, remove excess material from cup, then flush with a suitable solvent. Wipe gun exterior with a solvent dampened cloth. Never completely immerse in solvent as this is detrimental to the lubricants and packings.

NOTE

When replacing the fluid nozzle or fluid needle, replace <u>both</u> at the same time. Using worn parts can cause fluid leakage. See page 11, Chart 2. Also, replace the needle packing at this time. Lightly lubricate the threads of the fluid nozzle before reassembling. Torque to 18–20 nm (13–15 ft-lbs). Do not over tighten the fluid nozzle.

CAUTION

To prevent damage to fluid nozzle (8) or fluid needle (15), be sure to either 1) pull the trigger and hold while tightening or loosening the fluid nozzle, or 2) remove fluid adjusting knob (18) to relieve spring pressure against needle collar.

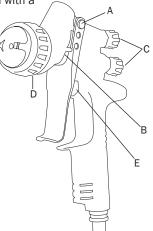
SPRAY GUN LUBRICATION

Daily, apply a drop of spray gun lubricant at trigger stud (39) and the stem of air valve (32) where it enters air valve assembly. The shank of fluid needle (15) where it enters packing nut (28) should also be oiled. Fluid needle packing (26) should be lubricated periodically. Make sure air separator (9) and air cap retaining ring (1) threads are clean and free of foreign matter. Before assembling air cap retaining ring to air separator, clean the threads thoroughly, then add two drops of spray gun lubricant to threads. Fluid needle spring (16) and air valve spring (33) should be coated with a

very light grease, making sure that any excess grease will not clog the air passages.

Points of Lubrication

- A. Trigger Points
- B. Packing
- C. Adjusting Knobs
- D. Air Cap Retaining Ring Threads
- E. Air Valve Cartridge



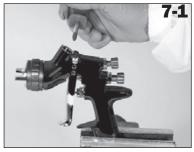


AIR VALVE INSTRUCTIONS

Servicing Air Valve

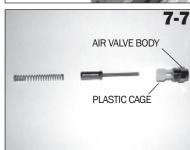
Reasons to service air valve:

- A) Air valve not functioning properly (may need cleaning).
- B) Routine maintenance.
- 1. Remove trigger using a Star (T20) driver. (See pictures 7-1 & 7-2)
- Unscrew air valve using 14 mm wrench. (See picture 7-3)
- 3. Remove air valve by gripping stem. (See picture 7-4)
- 4. Remove spring with spring pad. (See picture 7-5)
- DO NOT REMOVE REAR SEAL FROM GUN BODY. (See picture 7-6)
- DO NOT REMOVE PLASTIC CAGE FROM AIR VALVE BODY AS THIS MAY DAMAGE THE CAGE. (See picture 7-7)
- 7. CLEAN
 - a. Remove all paint build up. (See picture 7-8)
 - b. The 4 poppet holes must be clear. (See picture 7-9)
 - c. Stem must be free to float in poppet. (See picture 7-10)
 - Stem must slide through cage bore with slight resistance (due to seal).
 - Rear seal must look clean and in position in the bore. (See picture 7-6)
 - f. If any of the above cannot be rectified, replace the air valve (See Replacing Air Valve).
- Replace spring ensuring the end with the plastic bearing pad goes in first. (See picture 7-5)
- Insert air valve assembly into gun and carefully feed through the rear seal and over the spring. (See picture 7-11)
- Tighten air valve assembly using fingers first, then wrench tighten with 14 mm wrench. (See pictures 7-12 & 7-3)
- 11. Replace trigger. (See pictures 7-2 & 7-1)
- If there is an air leak through the gun, the air valve may need replacing (See Replacing Air Valve).











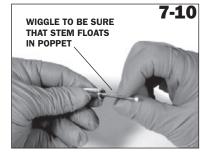










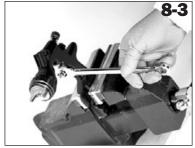






























Replacing Air Valve

Reasons to replace air valve:

- A) Air leak through the gun.
- B) Air valve not operating properly.
- Remove trigger using a Star (T20) driver. (See pictures 8-1 & 8-2)
- 2. Unscrew air valve using 14 mm wrench. (See picture 8-3)
- Remove air valve by gripping the stem. (See picture 8-4)
- Remove spring with spring pad. (See picture 8-5)
- Hook out rear seal using service tool. (See pictures 8-6 & 8-7)
- Clean air valve bores in gun body with a soft brush.
- Place new rear seal onto service tool; grooves must fit in service tool form. (See picture 8-8)
- Push rear seal firmly into hole up to shoulder, using service tool. (See picture 8-9)
- Insert new spring, ensuring the end with the plastic bearing pad goes in first. (See picture 8-5)
- 10. Insert air valve assembly into gun and carefully feed through the rear seal and over the spring. (See picture 8-10)
- 11. Tighten air valve assembly using fingers first, then wrench tighten with 14 mm wrench. (See pictures 8-11 & 8-3)
- 12. Replace trigger. (See pictures 8-2 & 8-1)



NEEDLE PACKING REPLACEMENT INSTRUCTIONS

- 1. Remove trigger using a Star (T20) driver. (See pictures 9-1 & 9-2)
- Remove fluid adjusting knob and needle spring with spring pad from gun. (See pictures 9-3 & 9-4)
- Remove fluid needle from gun body. (See picture 9-5)
- 4. Loosen and remove packing nut using a straight blade screwdriver. (See picture 9-6)
- Discard old packing and packing spring if replacing. Clean packing if reusing. Also clean packing spring and nut. (See picture 9-7)
- Partially insert clean fluid needle into gun and place packing nut, spring, and new packing onto needle. Be sure tapered end of packing goes into gun first. (See pictures 9-7 & 9-8)
- Insert fluid needle all the way into gun body seating in fluid nozzle.
- 8. Tighten needle packing nut by hand, then remove fluid needle.
- Tighten needle packing nut fully, using a straight blade screwdriver. Don't over tighten. (See picture 9-6)
- Reinstall fluid needle, needle spring, spring pad, and fluid adjusting knob. (See pictures 9-5, 9-4 & 9-3) A drop or two of lubricant on parts assures smooth operation.
- Reinstall trigger. (See pictures 9-2 & 9-1)
 A drop of lubricant assures smooth operation.
- Trigger gun fully and screw in fluid adjusting knob until it stops. Back it off 1/2 turn and gun will have full needle travel.
- 13. Trigger gun several times to verify proper operation.

FLUID INSERT REPLACEMENT/ MAINTENANCE

The fluid insert and seal are NOT replaceable. Don't remove these parts. (See picture 9-9) No maintenance is required for these parts other than cleaning the internal bore.

SPREADER VALVE ASSEMBLY REPLACEMENT/MAINTENANCE

The spreader valve assembly can be replaced if damaged (See picture 9-10). Remove using a 14 mm wrench. The internal seal can be replaced and is included in the TEKNA Gun Rebuild Kit.















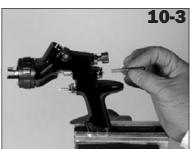




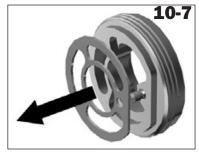






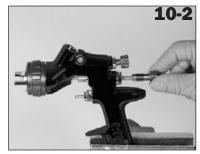


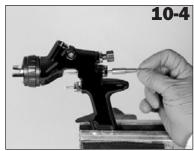






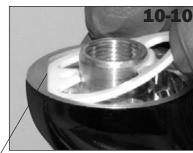
Flats on seal and gun must align.











AIR SEPARATOR SEAL REPLACEMENT

- 1. Remove air cap and retaining ring. (See picture 10-1)
- 2. Remove fluid adjusting knob, spring, and spring pad. (See pictures 10-2 & 10-3)
- Remove fluid needle from gun body. (See picture 10-4)
- Remove fluid nozzle (using 10 mm wrench), air separator, and seal.
 (See pictures 10-5 & 10-6)
- 5. Remove seal from air separator. (See picture 10-7)
- Clean front of gun if required, using a soft brush, as well as the air separator, fluid nozzle, air cap, and retaining ring. (See pictures 10-8 & 10-9)
- 7. Place a new air separator seal onto the front of the gun. The flat on the seal must align with the gun's flat. (See picture 10-10)
- 8. Reinstall the air separator, making sure the pin is engaged into the hole in the gun body. Reinstall the fluid nozzle and torque the fluid nozzle to 18–20 nm (13–15 ft-lbs). Don't over torque the fluid nozzle. A drop or two of lubricant on the fluid nozzle threads and air separator threads insures smooth assembly. Reinstall the air cap and retaining ring.
- Insert fluid needle all the way into the gun body, seating in fluid nozzle. (See picture 10-4)
- 10. Reassemble needle spring, spring pad, and fluid adjusting knob. A drop or two of lubricant assures smooth operation. (See pictures 10-2 & 10-3)
- 11. Trigger gun fully and screw in fluid adjusting knob until it stops. Back it off 1/2 turn and gun will have full needle travel.
- 12. Trigger gun several times to verify proper operation.



Chart 1 - Air Caps

| ORDER NO. FOR AIR CAP | APPLICATION | NUMBER ON CAP | RECOMMENDED INLET PRESSURE BAR/PSI | AIR FLOW LPM/SCFM | RECOMMENDED FLUID TIP (MM) |
|-----------------------------|---|------------------|--|-------------------------------|---|
| 702723 (HVLP) | Basecoats - Solvent & Waterborne | 202 | 1.2-1.5 bar 18-22 psi | 382-434 LPM 13.5-15.5 SCFM | 1.2, 1.3, 1.4 - Also 1.5 for waterborne only |
| 702724 (HVLP) | Clears, Single Stages, Waterborne Basecoats | 909 | 1.5-1.8 bar 22-26 psi | 396-453 LPM 14-16 SCFM | 1.2, 1.3, 1.4 – Also 1.5 for waterborne only |
| 703062 (High Efficiency) | Basecoats - Solvent & Waterborne, Clears, Single Stages | 7E7 | 1.1-1.5 bar 16-22 psi | 255-312 LPM 9-11 SCFM | 1.2, 1.3, 1.4 – Also 1.5 for waterborne only |

NOTE 1: Guns with HVLP caps must not exceed 0.7 bar (10 psi) air cap pressure with gun fully triggered. (Aproximately 26 psi gun inlet pressure.) (See accessories for air cap test kits which are available to set the exact cap pressure.)

Compliance with SCAQMD and other air regulatory agencies requires gun inlet pressure not to exceed 1.5 bar (22 psi) with gun fully triggered when the high efficiency cap is used. Gun inlet pressure may be adjusted as required to any desired value in areas not requiring EPA compliance.

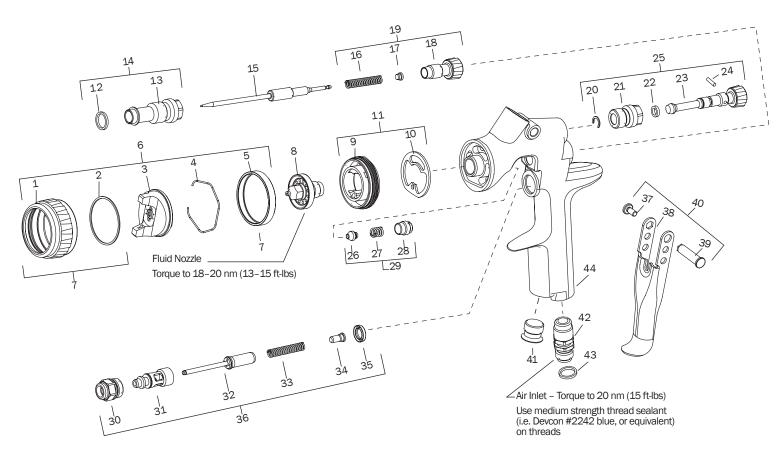
NOTE 2: When removing air cap from retaining ring, don't remove slip ring (2) or retaining ring seal (5) from retaining ring. Damage to the parts may occur. Slip ring and retaining ring seal are not available as replacements. Simply wipe parts clean and reassemble with new or clean air cap.

Chart 2 - Fluid Nozzle & Fluid Needles

| NO. ON FLUID NOZZLE | TIP SIZE I.D. (MM) | NO. ON FLUID NEEDLE (TO MATCH FLUID NOZZLE) | ORDER NO. FOR NOZZLE & NEEDLE SET |
|------------------------|-----------------------|--|--------------------------------------|
| SN-37-11 | 1.1 | SN-38-11 | 702711 |
| SN-37-12 | 1.2 | SN-38-12 | 702712 |
| SN-37-13 | 1.3 | SN-38-13 | 702713 |
| SN-37-14 | 1.4 | SN-38-14 | 702714 |
| SN-37-15 | 1.5 | SN-38-15 | 702715 |

NOTE: When replacing the fluid nozzle or fluid needle, replace both at the same time. Lightly lubricate the threads of the fluid nozzle before reassembling. Torque to 18–20 nm (13–15 ft-lbs). Don't over tighten the fluid nozzle. Use 10 mm wrench supplied with gun.





| REF. NO. | DESCRIPTION | PART NO. | QTY |
|----------|--|----------------------|-----|
| 1 | Air Cap Retaining Ring | | 1 |
| 2 | Slip Ring | | 1 |
| 3 | Air Cap | | 1 |
| 4 | Air Cap Retaining Clip | 191972 | 1 |
| 5 | Retaining Ring Seal | | 1 |
| 6 | Air Cap & Ring | See Chart 1, p.11 | 1 |
| 7 | Air Cap Retaining Ring & Seals | 702725 | 1 |
| 8 | Fluid Nozzle | See Chart 2, p.11 | 1 |
| 9 | Air Separator | | 1 |
| *10 | Air Separator Seal (kit of 2) | 702726 | 1 |
| 11 | Air Separator & Seal Kit | 702727 | 1 |
| *12 | Body Bushing Gasket | | 1 |
| 13 | Body Bushing | | 1 |
| 14 | Body Bushing & Gasket | 702728 | 1 |
| 15 | Fluid Needle | See Chart 2, p.11 | 1 |
| *16 | Needle Spring | | 1 |
| *17 | Needle Spring Pad | | 1 |
| 18 | Fluid Adjusting Knob | | 1 |
| 19 | Fluid Adjusting Knob, Spring, & Pad Kit | 702729 | 1 |
| *20 | Retaining Clip | | 1 |
| 21 | Spreader Valve Body | | 1 |
| *22 | O-ring | | 1 |
| 23 | Spreader Valve Adjusting Knob | | 1 |
| *24 | Spreader Valve Pin | | 1 |
| 25 | Spreader Valve Assembly | 702730 | 1 |

| REF. NO. | DESCRIPTION | PART NO. | QTY |
|----------|--|----------|-----|
| *26 | Needle Packing | | 1 |
| *27 | Packing Spring | | 1 |
| *28 | Packing Nut | | 1 |
| 29 | Packing, Spring & Packing Nut Kit | 702731 | 1 |
| 30 | Air Valve Body | | 1 |
| 31 | Air Valve Cage | | 1 |
| 32 | Air Valve Poppet | | 1 |
| 33 | Air Valve Spring | | 1 |
| 34 | Air Valve Spring Pad | | 1 |
| 35 | Air Valve Seal (Kit of 5) | 803307 | 1 |
| 36 | Air Valve Assembly | 702732 | 1 |
| *37 | Trigger Stud Screw (T20 Star) | | 1 |
| 38 | Trigger | | 1 |
| *39 | Trigger Stud | | 1 |
| 40 | Trigger, Stud & Screw Kit | 702733 | 1 |
| 41 | Plug | | 1 |
| 42 | Air Inlet | 702734 | 1 |
| 43 | Colour ID Ring Kit (4 Colours) | 702735 | 1 |
| 44 | Gun Body | | 1 |
| OTHER SA | LABLE PARTS / ACCESSORIES | | |
| | Wrench (10 & 14mm) | 702740 | |
| | Seal and Pin Kit (Kit of 5) (Items 20, 22 and 24.) | 192229 | |
| | Air Adjusting Valve | 702737 | |

^{*} The TEKNA Spray Gun Repair Kit (702736) contains all the parts indicated with an asterisk.



Troubleshooting Possible Problems in Operation

| CONDITION | CAUSE | CORRECTION |
|---|--|--|
| Heavy top or | Horn holes plugged. | Clean. Ream with non-metallic point. |
| bottom pattern | Obstruction on top or bottom of fluid nozzle. | Clean. |
| 10 | Cap and/or nozzle seat dirty. | Clean |
| Heavy right or left side | Left or right side horn holes plugged. | Clean. Ream with non-metallic point. |
| pattern | Dirt on left or right side of fluid nozzle. | Clean. |
| Determine if the obstruction rotate the cap one-half turn | , bottom-heavy, right-heavy, and left-heav on is on the air cap or the fluid nozzle. Do t on and spray another pattern. If the defect i busly instructed. Also check for dried paint olvent. | his by making a test spray pattern. Then, s inverted, obstruction is on the air cap. |
| 2. If the defect is not inverted nozzle. Remove with #600 | d, it is on the fluid nozzle. Clean nozzle. Cho I wet or dry sandpaper. | eck for a fine burr on the edge of the fluid |
| Heavy centre pattern | Spreader adjustment valve set too low. Atomising pressure too low. | Turn out counter clockwise to achieve proper pattern. Increase pressure. |
| | Material too thick. | Thin to proper consistency. |
| Split spray pattern | Atomisation air pressure too high. | Reduce at regulator or gun handle. |
| | Fluid adjusting knob turned in too far. | Turn out counter clockwise to achieve proper pattern. |
| | Spreader adjusting valve set too high. | Turn in clockwise to achieve proper pattern. |
| Jerky or fluttering spray | *Loose or damaged fluid nozzle/seat. | Tighten or replace. |
| | Loose or broken cup fluid nipple. Material level too low. | Tighten or replace cup. Refill. |
| 4111 | Container tipped too far. | Hold more upright. |
| [74] | Obstruction in fluid passage. | Back flush with solvent. |
| LS () () () | Loose fluid needle packing nut. | Tighten. |
| *** | Damaged fluid needle packing. | Replace. |
| Unable to get round spray | Spreader valve not seating properly. | Clean or replace. |
| | Air cap retaining ring loose. | Tighten. |
| Will not spray | No air pressure at gun. | Check air supply and air lines, blow out gun air passages. |
| | Fluid adjusting knob not open enough. | Turn out counter clockwise. |
| | Fluid too heavy for gravity feed. | Thin material and/or change to larger fluid nozzle size. |
| Paint bubbles in cup | Fluid nozzle not tight. | Tighten to 18-20 nm (13-15 ft-lbs). |
| Fluid leaking or dripping | Cup lid loose. | Push in or replace. |
| from cup lid | Dirty cup or lid. Cracked cup or lid. | Clean. Replace cup and lid. |
| Starved spray pattern | Inadequate material flow. | Back fluid adjusting knob out or change to larger fluid nozzle size. |
| | Low atomisation air pressure. | Increase air pressure and rebalance gun. |
| Excessive overspray | Too much atomisation air pressure. | Reduce pressure. |
| | Gun too far from work surface. | Adjust to proper distance. |
| | Improper stroking (arcing, gun motion too fast). | Move at moderate pace, parallel to work surface. |
| Excessive fog | Too much or too-fast-drying thinner. Too much atomisation air pressure. | Remix properly. Reduce pressure. |
| Dry spray | Air pressure too high. | Reduce pressure. |
| , opiuj | Gun too far from work surface. | Adjust to proper distance. |
| | Gun motion too fast. | Slow down. |
| | Gun out of adjustment. | Adjust. |
| Fluid leaking from | Packing nut loose. | Tighten. |
| packing nut | Packing worn. | Replace. |

^{*}Most common problem.

Troubleshooting Possible Problems in Operation (cont'd)

| CONDITION | CAUSE | CORRECTION |
|--|---|--|
| Fluid leaking or dripping from front of gun | Fluid nozzle or fluid needle worn or damaged. | Replace fluid nozzle and fluid needle. |
| | Foreign matter in fluid nozzle. | Clean. |
| | Fluid needle spring broken. | Replace. |
| | Wrong size fluid needle or fluid nozzle. | Replace fluid nozzle and fluid needle. |
| Fluid dripping or leaking | Cup loose on gun. | Tighten |
| from bottom of cup | Cup threads dirty. | Clean. |
| Runs and sags | Too much material flow. | Turn fluid adjusting knob clockwise or switch to smaller fluid nozzle and fluid needle size. |
| | Material too thin. | Mix properly or apply light coats. |
| | Gun tilted on an angle, or gun motion too slow. | Hold gun at right angle to work and adapt to proper gun technique. |
| Thin, sandy coarse finish drying before it flows out | Gun too far from surface. | Check distance. Normally approx. 150-200 mm (6-8"). |
| | Too much air pressure. | Reduce air pressure and check spray pattern. |
| | Improper thinner being used. | Follow paint manufacturer's mixing instructions. |
| Thick, dimpled finish "orange peel" | Gun too close to surface. | Check distance. Normally approx. 150–200 mm (6–8"). Too much material coarsely atomised. |
| | Air pressure too low. | Increase air pressure or reduce fluid flow. |
| | Improper thinner being used. | Follow paint manufacturer's mixing instructions. |
| | Material not properly mixed. | Follow paint manufacturer's mixing instructions. |
| | Surface rough, oily, dirty. | Properly clean and prepare. |

Accessories





Easy to use and clean design.

HAV-555 DeVilbiss Air Adjusting Valve with Gauge



Use to precisely set air pressure to gun.

HAV-512 Adjusting Valve



Use to control air usage at gun.

192212 Professional Spray Gun **Cleaning Kit**



Contains six precision tools designed to effectively clean all DeVilbiss, Binks, Finishline and other brand spray guns.

JGA-156-K10 Spring Clips



Joins any single piece DeVilbiss air cap with latest version retaining ring. Helps prevent part loss and provides easier assembly.

192218 Scrubs® **Hand Cleaner Towels**



Scrubs® are a premoistened hand cleaner towel for painters, body men and mechanics that go where you go and no water is needed.

702738 HVLP #202 702739 HVLP #909 Air Cap Test Kit

The purpose of this test kit is to measure air cap atomizing air pressure at the center air port of the air cap. Used to confirm code compliance and as a daily quality control measure.



Automotive Refinish Quick Connects For HVLP Guns (Air) High Flow Type.



HC-4419 Stem 1/4" NPT(F)



HC-1166 Stem 1/4" NPT(M)



1/4" NPT(M) /NPS(M)



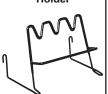
HC-4720 Coupler 1/4" NPT(F)

40-128 Twin Cartridge, **Paint Spray** Respirator



NIOSH-Certified (TC84A-1623) for respiratory protection in atmospheres not immediately dangerous to life.

803616 Multi Spray Gun Holder



Gun holder for up to three gravity feed spray guns.

192219 **Gun Holder**



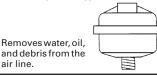
Gun holder made to hold guns with gravity cups.

Spray Gun Lube SSL-10 (2 oz. bottle)



Compatible with all paint materials; contains no silicone or petro-leum distillates to contaminate paint. SDS Sheet available upon request.

HAF-507 Whirlwind™ In-Line Air Filter



702740 TEKNA Wrench

