

INSTRUCTIONS-PARTS LIST

This manual contains IMPORTANT
WARNINGS AND INSTRUCTIONS
READ AND RETAIN FOR REFERENCE



307-732

Rev. E
Supersedes D
and PCN E

ROUND PATTERN KIT



For use on the PRO4000, PRO5000, AS4000, AS5000,
and AS135 Electrostatic Air Spray Guns:

Part Number 218-998

102 to 152 mm (4 to 6 in.) pattern size

Part Number 220-906

203 to 254 mm (8 to 10 in.) pattern size

For use on the Automatic 100 KV Electrostatic Air
Spray Gun:

Part Number 220-192

102 to 152 mm (4 to 6 in.) pattern size

INSTALLATION

WARNING

Before installing or removing the air cap/fluid nozzle assembly, ALWAYS turn off the electrostatics to the gun and relieve all pressure in the system. This helps reduce the risk of fire, explosion, or electric shock, which could cause serious bodily injury and property damage, and reduces the risk of splashing fluid in the eyes or on the skin if the gun is accidentally triggered.

Pressure Relief Procedure

Guns with external power supplies:

1. Turn off the high voltage power supply.
2. Turn off the air and fluid supply to the gun.
3. Trigger the gun into a grounded metal waste container to relieve fluid pressure.

Guns with internal power supplies (PRO guns):

1. Turn off the air and fluid supply to the gun.
2. Trigger the gun into a grounded metal waste container to relieve fluid pressure.

Part Number 218-998 and 220-906

(See Fig 1)

1. Squeeze the gun trigger (Models PRO4000, PRO5000, and AS4000 only) and screw the fluid nozzle (2) into the gun. Torque the fluid nozzle to 1.1-1.4 N.m (10-12 in-lb).
2. Place the spacer (5) on the fluid nozzle (2).
3. Place the diffuser (1) over the spacer (5) and onto the fluid nozzle (2).
4. Install the air cap (3) over the fluid nozzle (2), being careful not to bend the electrode.
5. Screw the gun's retaining nut (Part No. 176-968) over the air cap (3), onto the spray gun.
6. Tighten the retaining nut until it is snug, allowing the air cap to turn with resistance. If too tight, the spray pattern will be distorted.

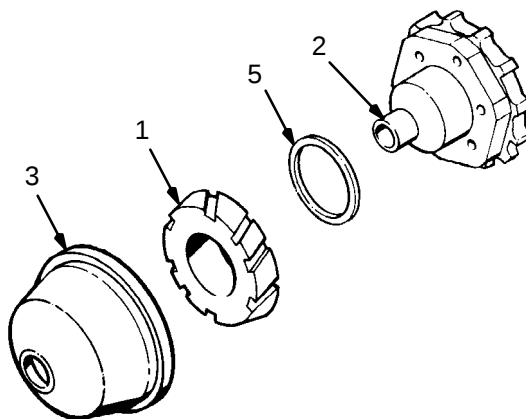


Fig 1

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1444

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INSTALLATION

Part Number 220–192 (See Fig 2)

1. Install the fluid nozzle assembly (101) on the spray gun. Torque the fluid nozzle to 1.1–1.4 N.m (10–12 in-lb).

CAUTION

To avoid bending the electrode, carefully guide the electrode all the way through the hole in the fluid nozzle before engaging its threads.

2. Install air cap (102) over the nozzle assembly (101).
3. Screw the gun's retaining nut (Part No. 176–387) over the air cap (102), onto the spray gun, being careful not to bend the electrode. Tighten the retaining nut until snug.

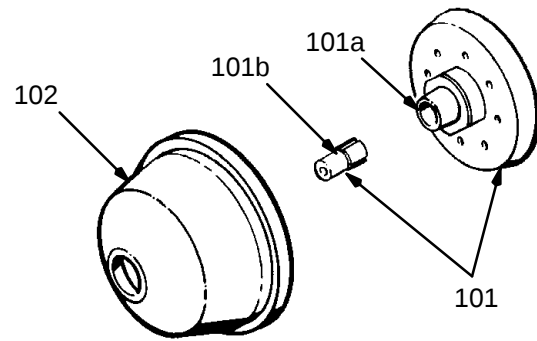


Fig 2

CLEANING

WARNING

Before installing or removing the air cap/fluid nozzle assembly, ALWAYS turn off electrostatics to the gun and relieve all pressure in system by following the **Pressure Relief Procedure Warning** on the front cover. This helps reduce the risk of fire, explosion, or electric shock, which could cause serious bodily injury and property damage, and reduces the risk of splashing fluid in the eyes or on the skin if the gun is accidentally triggered.

1. Remove air cap/fluid nozzle assembly from the gun.
2. Wash and soak the fluid nozzle in solvent. Use a soft bristle brush to clean the air cap, fluid nozzle, and front of the gun.

CAUTION

NEVER use metal instruments to clean holes in the air cap and nozzle. Metal instruments can damage the electrode and holes in the air cap and fluid nozzle, resulting in distortion of spray pattern.

PARTS DRAWINGS AND LISTS

Part Number 218–998

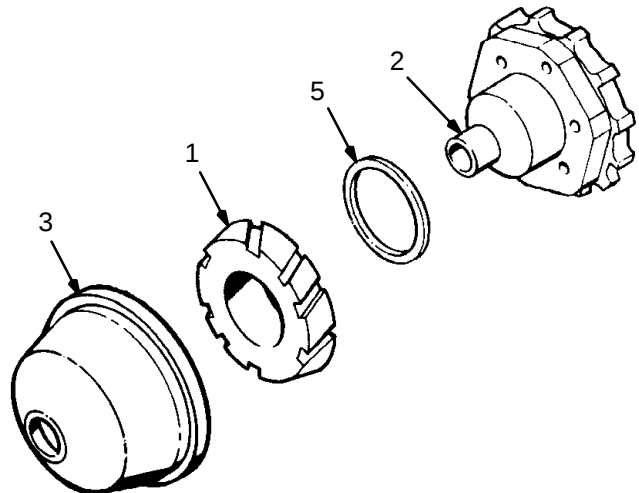
102 to 152 mm (4 to 6 in.) Pattern Size

REF NO.	PART NO.	DESCRIPTION	QTY
1	181–237	DIFFUSER	1
2	218–997	NOZZLE, fluid	1
3	181–236	AIR CAP	1
5	183–378	SPACER	1

Part Number 220–906

203 to 254 mm (8 to 10 in.) Pattern Size

REF NO.	PART NO.	DESCRIPTION	QTY
1	181–237	DIFFUSER	1
2	220–944	NOZZLE, fluid	1
3	183–377	AIR CAP	1
5	183–378	SPACER	1

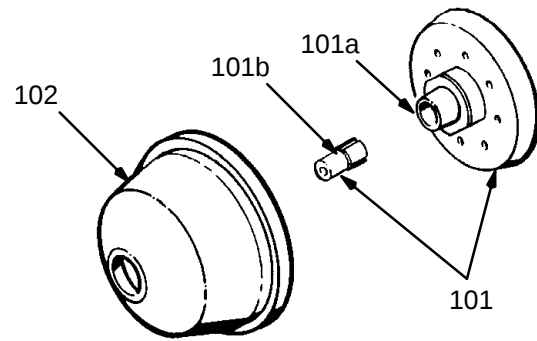


PARTS DRAWINGS AND LISTS

Part Number 220-192

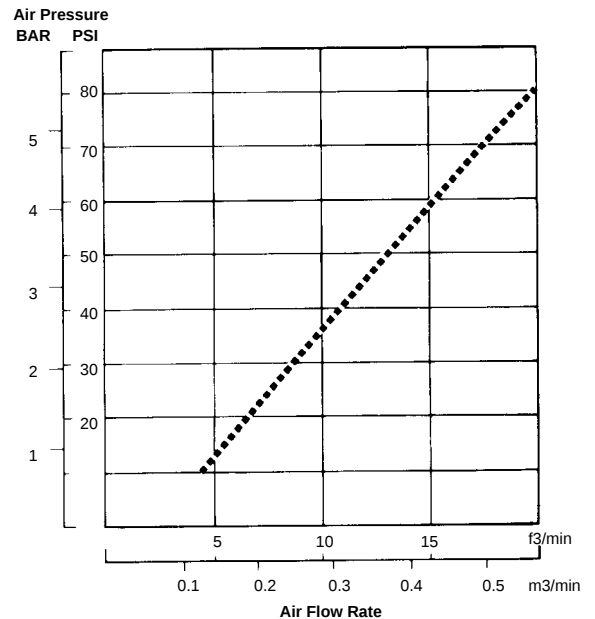
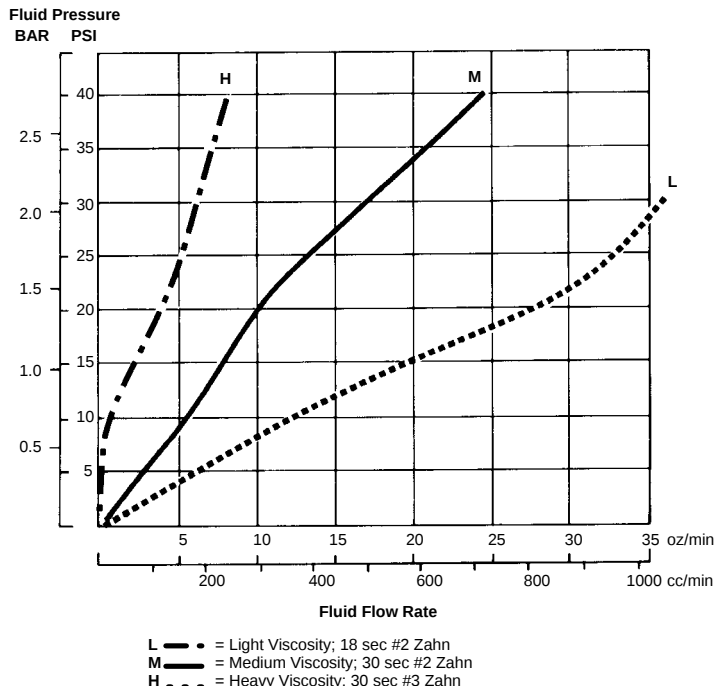
102 to 152 mm (4 to 6 in.) Pattern Size

REF NO.	PART NO.	DESCRIPTION	QTY
101	220-191	NOZZLE ASSY Includes items 101a & 101b	1
101a	181-517	.NOZZLE, fluid	1
101b	181-239	.INSERT, fluid nozzle	1
102	181-236	AIR CAP	1

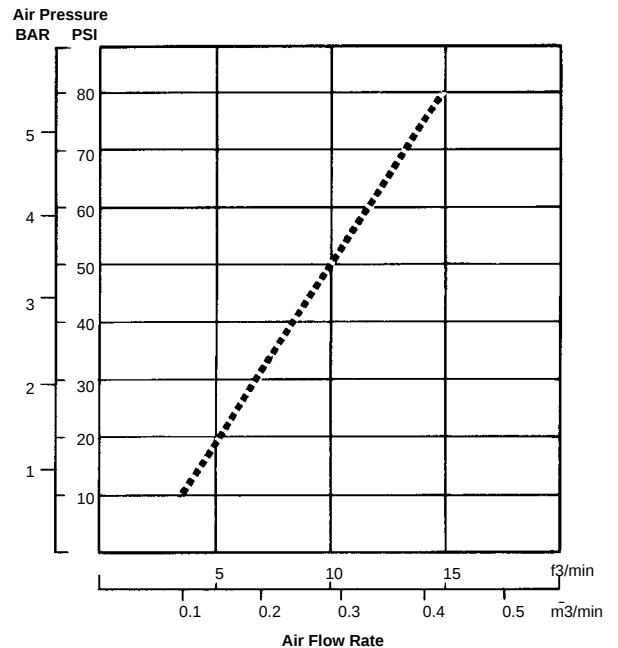
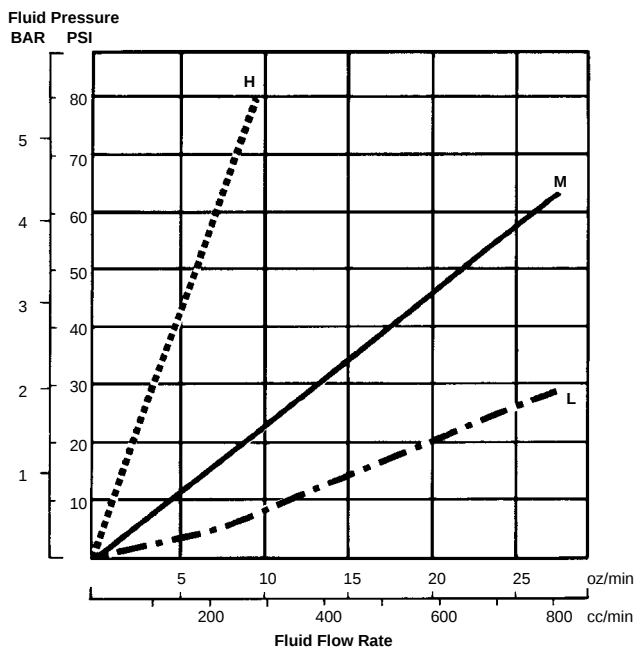


ROUND PATTERN AIR SPRAY PERFORMANCE CHARTS

Part Number 218-998 and 220-906



Part Number 220-192



SERVICE INFORMATION

Listed below by the assembly changed are DELETED parts.

ASSEMBLY CHANGED	PART STATUS	REF NO.	PART NO.	NAME
218-998 & 220-906 Kit	DELETED	4	108-282	Washers

HOW TO ORDER REPLACEMENT PARTS

1. To be sure you receive the correct replacement parts, kits or accessories, always give all of the information requested in the chart below.
2. Check the parts list to identify the correct part number; do not use the ref. no. when ordering.
3. Order all parts from your nearest Graco distributor.

6 digit Part Number	Qty	Part Description

Factory Branches: Atlanta, Dallas, Detroit, Los Angeles, West Caldwell (N.J.)

Subsidiary and Affiliate Companies: Canada; England; Switzerland; France; Germany; Hong Kong; Japan

GRACO INC. P.O. BOX 1441 MINNEAPOLIS, MN 55440-1444

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