

# INSTRUCTIONS-PARTS LIST



**307-104**

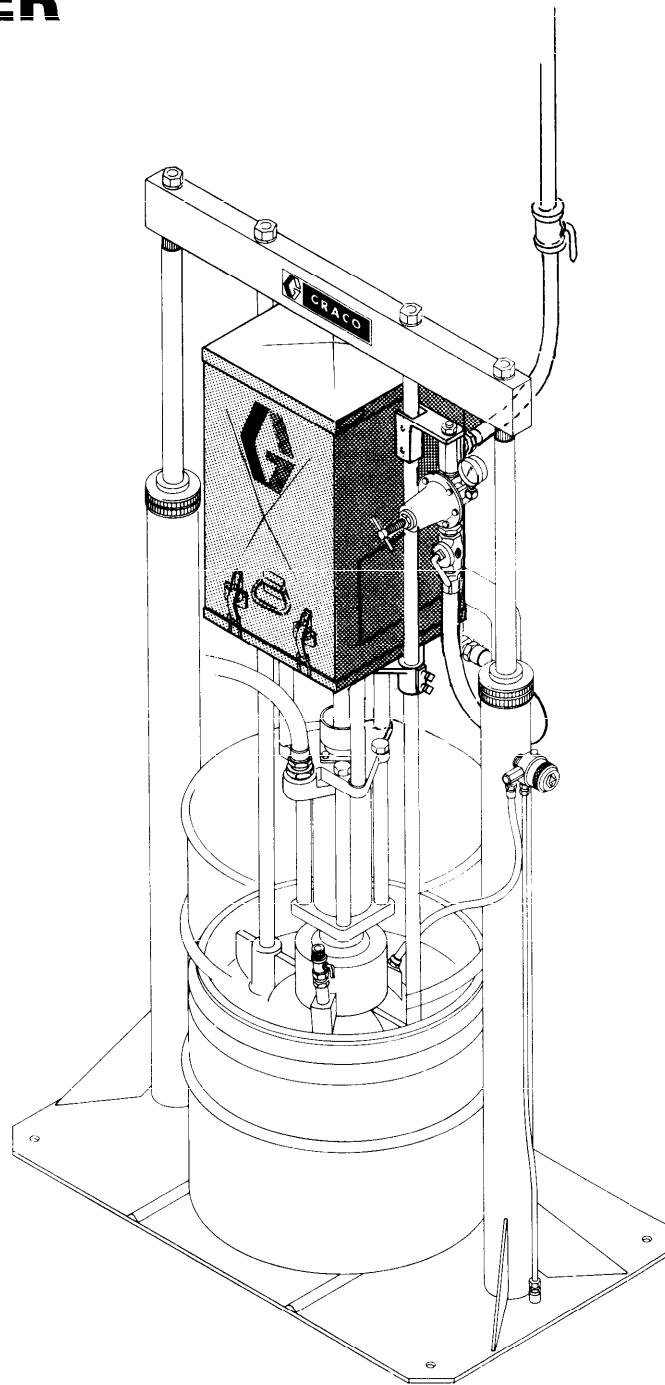
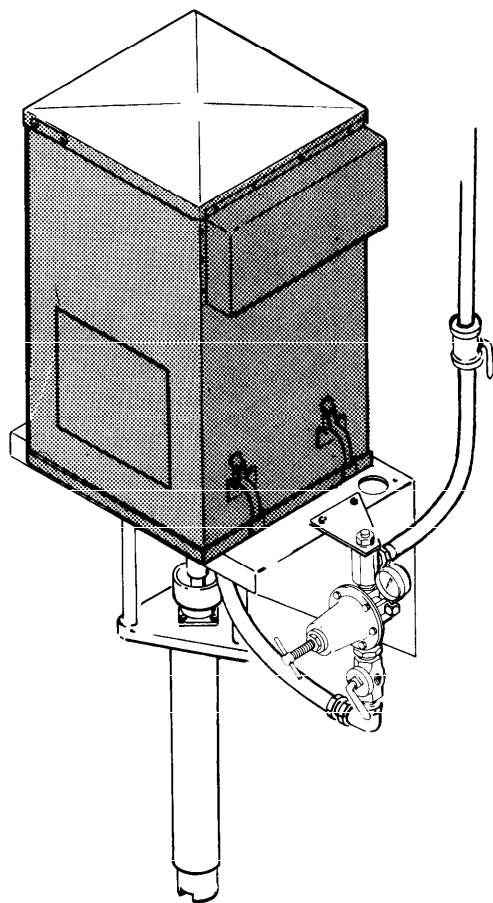
**Rev D**  
SUPERSEDES 1-74

**KEEP FOR REFERENCE**

## FOR BULLDOG® AND KING® AIR MOTORS **AIR MOTOR SILENCER**

**Model 208-804 Series C**

Patent No. 3,789,954



- Properly installed, this accessory will reduce the noise of a single Bulldog or King pump to or below 80dBA.
- This kit includes all items necessary for installing on a Model 207-279 barrel ram unit except the regulator kit and external plumbing.
- With minor modifications, as explained in these instructions, Graco Model 206-221 wall brackets can be adapted to accept an Air Motor Silencer.

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

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## WARNING

For your safety, before operating the pump, be sure to read and follow all warnings, cautions and instructions in this manual and in all the instruction manuals supplied with your pump, motor and all accessories.

## WARNING

### Pressure Relief Procedure

To reduce the risk of serious bodily injury, including fluid injection, splashing in the eyes, or injury from moving parts, always follow this procedure before checking, installing, or repairing any part of the system.

1. Close the pump air regulator.
2. Close the bleed-type master air valve to relieve air pressure.
3. Disengage the gun safety latch, trigger the gun to relieve fluid pressure, and engage the gun safety latch again.
4. Open the fluid drain valve; triggering the gun may not be sufficient to relieve all fluid pressure.

If you suspect that the hose or gun is clogged, or that pressure has not been fully relieved, **VERY SLOWLY** Loosen a hose end coupling or the spray tip nut and relieve pressure gradually, then disconnect the coupling or nut completely.

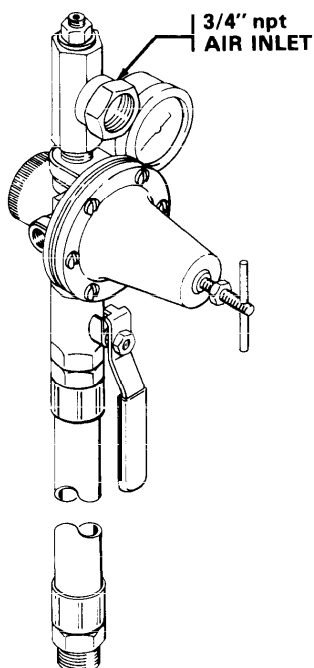
1. Follow the Pressure Relief Procedure Warning, above.
2. Remove the pump from its mounting. Unscrew the pump couolina nut and the lower tie rod locknuts. Do not remove the tie rods from the air motor. See Fig 2.
3. Use only pressure-rated hose for fluid connections to the pump. Hard plumbing will transmit noise.

## WARNING

Do not restrict or plug the air exhaust outlet. Doing so causes excessive air pressure which may cause the Silencer to rupture, which can result in serious bodily injury and property damage.

### Ram Mounting Only

1. Rearrange the air regulator assembly as shown in Fig 1 ii if you have a regulator kit (205-712 for Bulldog pumps; 207-651 for King pumps). The air inlet adapter must be at the top (outlet) of the regulator, and the shutoff/vent valve and hose must be below the regulator.



2. Attach the regulator bracket (2) to the right hand ram bar as shown on the drawing on the cover of this manual. The screws (5) and nuts (2) are provided.
3. Position the air motor on the base as shown in Fig 2. The mounting studs in the base fit into the mounting holes in the air motor base. Install the washers (14 and 12) and a locknut (7) onto three of the four studs.
4. Connect a ground wire between the motor grounding lug and the fourth stud. Install the washers and locknut on the fourth stud. (See Grounding also).
5. Tighten the locknuts securely, but do not overtighten as that will compress the insulation and make the Silencer less effective.

**NOTE:** Check the tightness of the nuts after several days of operation to be sure they are secure.

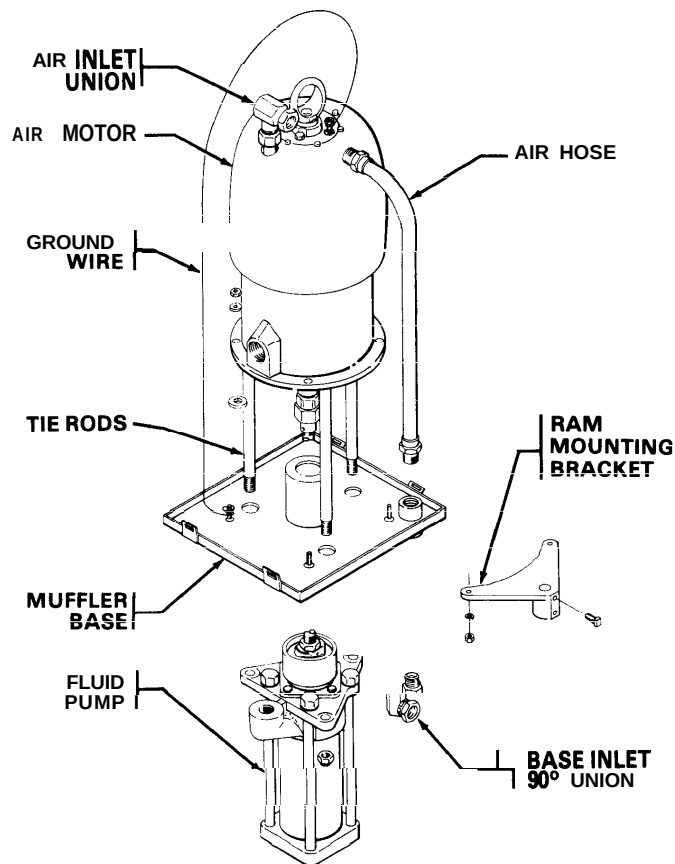
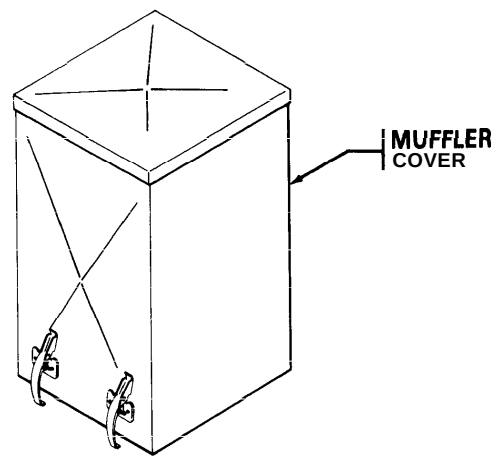


Fig 1

Fig 2

6. Connect the displacement pump to the air motor, positioning the fluid outlet toward the front as shown in Fig 2. Install the tie rod locknuts and connect the coupling nut.
7. Be sure the air inlet union points toward the air inlet adapter (9) in the base plate. Connect the air hose (24). The hose should just clear the lifting eye and must not touch the outer Silencer cover (31).
8. Place the cover (31) over the motor and clamp it to the base. Refer to the drawing on the front cover.
9. Use the new brackets (18), lockwashers (3), nuts (2) and setscrews (4) to mount the pump and Silencer in the mm. Be sure the Silencer does not touch the ram mounting rods.
10. Attach the regulator assembly to the mounting bracket as shown on the drawing on the front cover.
11. Ground the Silencer base to a true earth ground as described in Grounding.

### Wall Mounting Only

1. Rearrange the air regulator assembly as shown in Fig 4.
2. Cut off the four weld studs on the wall bracket. Drill four 3/8 in. (9 mm) diameter holes where the studs were. Drill another 3/8 in. (9 mm) diameter hole in the right side of the bracket. Punch or cut out a 1-1/2 in. (38 mm) diameter hole on the lower right corner of the bracket. Refer to Fig 3 for the exact location of these modifications.
3. Cut four rectangular pieces of 1/8 in. (3 mm) thick leather to be placed between the wall bracket and the mounting studs of the Silencer base.
4. Screw the special regulator bracket, part no. 606-034 (must be purchased separately), onto the side of the wall bracket using 3/8 in. (9 mm) screws, washers and nuts.
5. Using Fig 4 as your guide, continue to assemble the Silencer as in Steps 3 through 8 of "Ram Mounting Only".
6. Attach the regulator assembly to the bracket as shown in Fig 4.
7. Ground the Silencer base to a true earth ground as described in Grounding.

NO. 206-221 WALL BRACKET: TOP VIEW

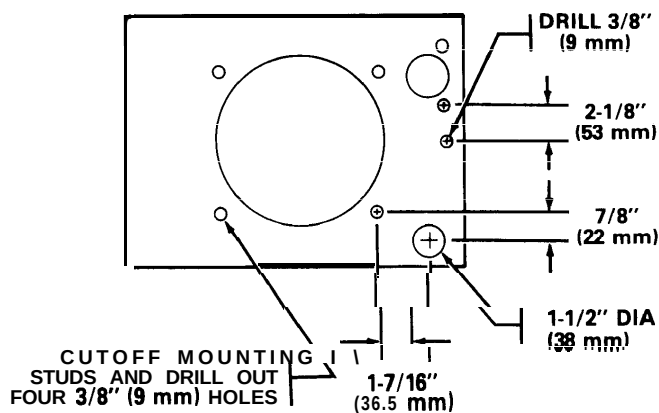


Fig 3

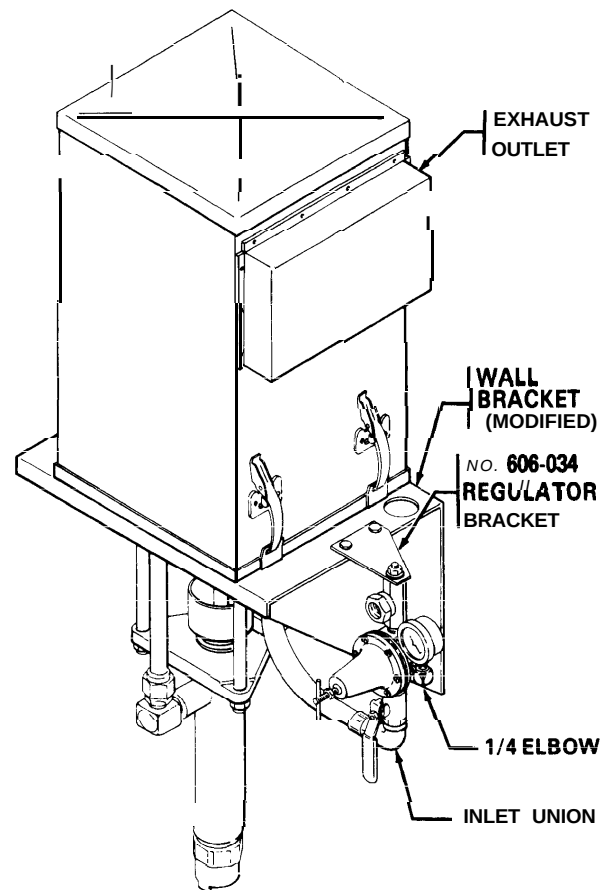


Fig 4

### Grounding

#### WARNING

To reduce the risk of static sparking, which can cause a fire or explosion and result in serious bodily injury, be sure your entire spray system is properly grounded. Follow the instructions in your separate pump or motor instruction manual, and check your local electrical codes for detailed grounding instruction for your area and type of equipment.

Due to the insulation in the Silencer, the motor must be grounded to a stud in the Silencer base (see Fig 2), and then another ground wire must be connected between the grounding lug on the base and a true earth ground.

To connect a ground wire to the motor and silencer base grounding lug:

Loosen the grounding nut locknut (W) and washer (X). Insert one end of a 12 ga (1.3 mm) minimum ground wire (Y) into the slot in the lug (Z) and tighten the locknut securely. See Fig 5. Connect the other end of the wire to a true earth ground. See the back cover for adding a grounding wire and clamp.

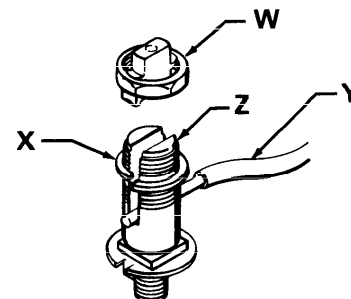


Fig 5

## PARTS LIST

## PARTS DRAWING

## Model 208-804 Air Motor Silencer, Series 2

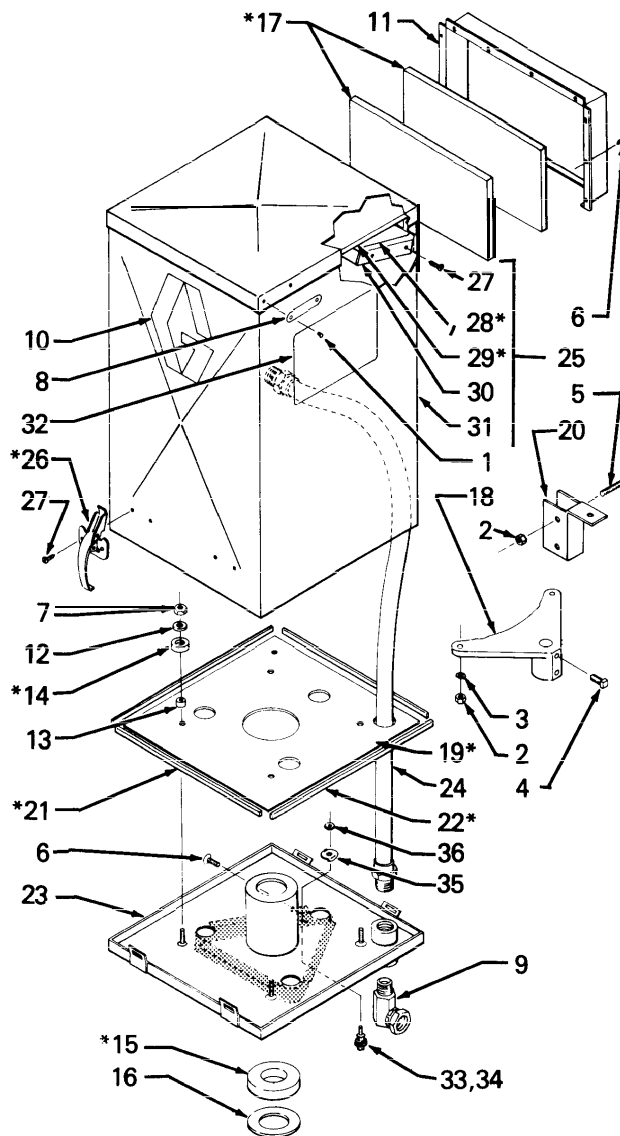
| REF NO. | PART NO.  | DESCRIPTION                               | QTY |
|---------|-----------|-------------------------------------------|-----|
| 1       | 100-055   | SCREW, drive, type "u", No. 6 x 1/4"      | 2   |
| 2       | 100-188   | NUT, hex, 5/16-18                         | 6   |
| 3       | 100-214   | LOCKWASHER, spring, 5/16"                 | 4   |
| 4       | 100-672   | SETSCREW, square head, cup pt, 3/8-16x 1" | 4   |
| 5       | 100-678   | CAPSCREW, hex hd, 5/16-18x 1-3/4"         | 2   |
| 6       | 100-825   | SCREW, self -tap, type "F", 10-24 x 3/8"  | 4   |
| 7       | 102-040   | LOCKNUT, 1/4-20                           | 4   |
| 8       | 150-707   | PLATE, serial                             | 1   |
| 9       | 160-327   | UNION, 90° swivel, 3/4 npt(m x f)         | 1   |
| 10      | 166-361   | DECAL, Graco "G"                          | 1   |
| 11      | 170-676   | CASE, suppressor                          | 1   |
| 12      | 170-677   | WASHER, flat                              | 4   |
| 13      | 170-678   | BUSHING                                   | 4   |
| 14      | *170-679  | WASHER, flat, rubber                      | 4   |
| 15      | "170680   | SEAL, rubber                              | 1   |
| 16      | 170681    | RETAINER                                  | 1   |
| 17      | *170-682  | PAD, dampener                             | 1   |
| 18      | 170684    | BRACKET, mounting                         | 2   |
| 19      | "170685   | GASKET                                    | 1   |
| 20      | 170-695   | BRACKET                                   | 1   |
| 21      | * 170-799 | GASKET                                    | 2   |
| 22      | "170800   | GASKET                                    | 2   |
| 23      | 208-807   | BASE, muffler                             | 1   |
| 24      | 214-956   | HOSE, 3/4" ID, cpd 3/4 npt(mbe), 2 ft     | 1   |
| 25      | 208-811   | COVER ASSEMBLY                            | 1   |
|         |           | Includes items 26-31                      | 1   |
| 26      | * 103-730 | . LATCH                                   | 4   |
| 27      | 103806    | . RIVET, blind                            | 16  |
| 28      | "170683   | . PAD, dampener                           | 1   |
| 29      | * 170686  | . PAD, dampener                           | 1   |
| 30      | 170-691   | . BATTLE                                  | 1   |
| 31      | 208805    | . COVER                                   | 1   |
| 32      | 176-385   | LABEL, warning                            | 1   |
| 33      | 104-029   | GROUNDING LUG                             | 1   |
| 34      | 180-755   | WASHER                                    | 1   |
| 35      | 100-718   | LOCKWASHER, No. 10                        | 1   |
| 36      | 104-147   | NUT, hex, M5                              | 1   |

"Recommended "tool box" spare parts. Keep on hand to reduce down time.

Order parts by name and series letter of the assembly for which you are ordering.

## SERVICE INFORMATION

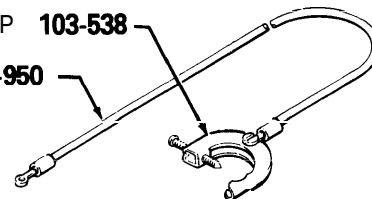
SERVICE INFORMATION NOTE: Grounding lug parts (33 to 36) and warning label (32) have been added.



## ACCESSORIES (Must be purchased separately)

GROUNDING CLAMP 103-538

GROUND WIRE 208-950  
25 ft (7.6 m) length.  
For grounding pump.



## THE GRACO WARRANTY

Graco inc. warrants all equipment manufactured by it and bearing its name to be free from defects in material and workmanship under normal use and service. This warranty extends to the original purchaser for a period of 12 months from the date of purchase and applies only when the equipment is installed and operated in accordance with written factory recommendations. This warranty does not cover damage or wear which, in the reasonable judgment of Graco, arises from misuse, abrasion, corrosion, negligence, accident, substitution of non-Graco parts, faulty installation or tampering.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective for examination by Graco to verify the claim and defect. If the claimed defect is verified, Graco will repair or replace free of charge, any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in workmanship or material, repairs will be made at a reasonable charge and return transportation will be charged.

THIS LIMITED WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES (EXPRESS OR IMPLIED) INCLUDING WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF ANY NON-CONTRACTUAL WARRANTIES INCLUDING PRODUCT LIABILITY. GRACO SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSS IS EXPRESSLY EXCLUDED AND DENIED.

EQUIPMENT NOT COVERED BY GRACO WARRANTY. Accessories or components of equipment sold by Graco that are not manufactured by Graco (such as electric motors, switches, hose, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making such claims.

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