

# Installation Instructions for IP-44 Protection Kit for 33A and 42A Gearmotors and Motors (Models 0977 and 0978)

Purchase Date \_\_\_\_\_

Installed By \_\_\_\_\_

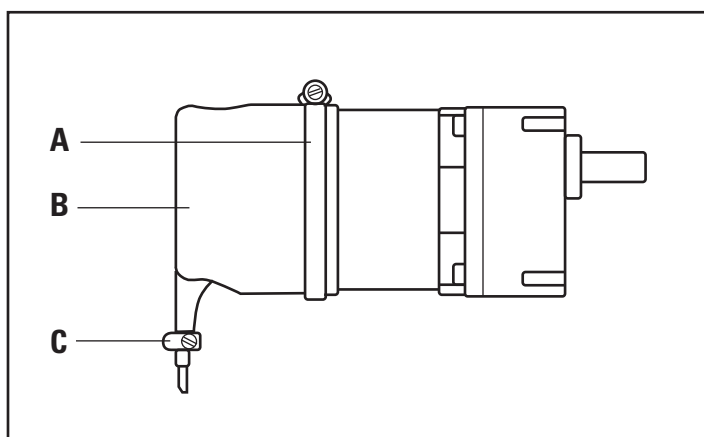
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1. Disconnect motor or gearmotor from DC power source prior to installation of the boot kit.
2. This IP protection kit is intended for Bodine type 33A or 42A gearmotors and motors that don't have a terminal box installed.
3. Cut off the end of the cone-shaped protrusion on the vinyl boot about 1/4" from the tip.
4. Slide the large clamp onto the non-shafted side of the motor/gearmotor body. Run the terminal end of the power cord through the small hose clamp.
5. Feed the power cord through the newly cut end of the boot, and out through the large opening. Slide boot back far enough to allow easy connection of power cord to motor.
6. Slide the boot directly over the motor body (avoid twisting), while pulling the remaining cord through the cut hole until the boot is completely on the motor (about 1-1/2" onto the center ring), and flat against the endshield. The cord should exit directly from the shield through the boot without any kinks. Note: On base mounted 42A4 and 42A5 motors and gearmotors, it will be necessary to slightly trim the boot to provide clearance for the base.
7. Carefully guide the small hose clamp over the power cord and boot protrusion, and tighten clamp around boot about 1/8" from the cut end.
8. Slide the large clamp over the motor end of the boot and tighten around the boot and motor frame about 1/8" from edge of the boot. Be sure that the clamp's lining strip is in position to protect the boot from damage by the clamping screw.



## SERVICE NOTES

1. When servicing brushes, loosen only the large clamp, and pull the boot back. Repeated loosening of the small clamp will damage the boot.
2. Do not service the boot at low temperatures (below 32° F). An attempt to remove the boot at low temperatures may damage the stiffened vinyl.



## PARTS

- A. Large hose clamp  
B. Vinyl boot  
C. Small hose clamp

**Note on IP-44:** See [Bodine Handbook](#), page 8-45, for more details on the IP rating system (IP-44: protection against 1 mm objects and splashing water).