

# Conduit Box Kit No. 5162-101-002

P-1402  
819-0321

## Installation & Operating Instructions



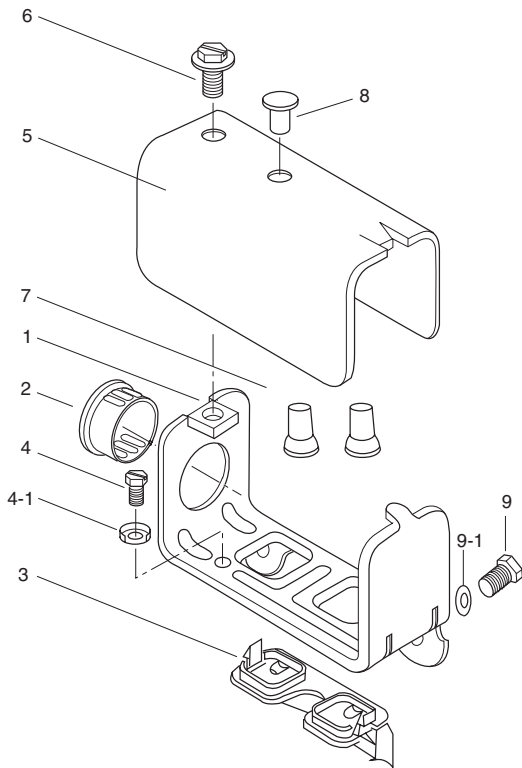
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**⚠ WARNING** Failure to follow these instructions may result in product damage, equipment damage, and serious or fatal injury to personnel.

**⚠ CAUTION** Do not connect rigid conduit directly to the conduit box. A minimum of 12” of flexible liquid tight conduit or other suitable flexible wiring with appropriate fittings is required. Flexible wiring is required to prevent side loading of bearing mounted clutches and possible deformation of the conduit box or components during assembly.

## Components



## Introduction

Conduit Box Kit No. 5162-101-102 contains all components needed to assemble a conduit box for Warner Electric AT clutches and brakes, sizes 25 through 115. Wiring terminations are provided. Consult local electrical codes for proper wiring terminations required.

## For AT Series Clutches and Brakes

This Warner Electric conduit box is designed to provide a proper means for field wiring termination and power entry into Warner Electric AT (Advanced Technology) series clutches and brakes. It conforms to the requirements of Underwriters Laboratories. Kit No. 5162-101-002, contains all components needed to assemble a conduit box for Warner Electric AT clutches and brakes, sizes 25 through 115. Please follow these instructions carefully when installing this conduit box.

## Parts List for kit 5162-101-002

Item	Quantity	Part Name
1	1	Box, Conduit
2	1	Plug, Protective
3	1	Retainer, Wire
4	1	Screw, Hex, Washer Head
4-1	1	Terminal Ring
5	1	Cover Assembly
6	1	Screw, Hex, Washer Head
7	2	Wire Nuts
8	1	Plug, Protective
9	2	Screw, Hex. Head
9-1	2	Washer, Lock

**Note:** Item 3 is supplied with the clutch or brake.

## Assembly and Installation

### Step 1

Assemble 1/2" flexible conduit fitting furnished by customers into the desired end of the conduit box (item 1). (See Figure 1).

Press protective plug (item 2) into the unused conduit hole in the box.



Figure 1

### Step 2

Insert the plastic wire retainer (item 3) into the conduit box with the two square flanges on the wire retainer protruding into the two square holes in the floor of the box. The wire inlet flange must be adjacent to the mounting holes of the conduit box. (See Figure 2). The two snap-in tabs on the wire retainer must be secure on the inside of the box.



Figure 2

### Step 3

Cut the two lead wires off so 8" of wire extends from the field or magnet. Insert the lead wires through the two holes in the wire retainer so they extend into the inside of the conduit box. (See Figure 3) Fasten the conduit box to the magnet or field. Tighten the hex head retaining screws (item 9) and lock washers (item 9-1).

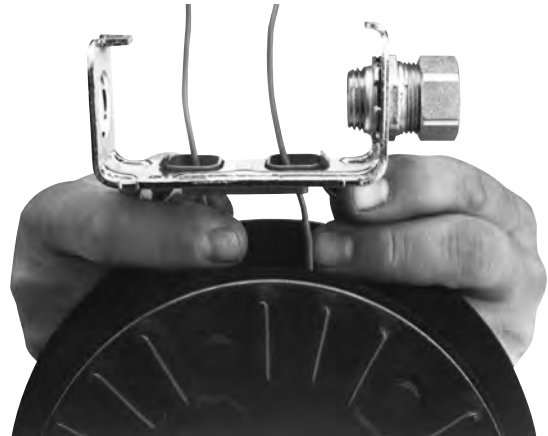


Figure 3

### Step 4

Connect electric supply cable to the flexible conduit fitting installed on the conduit box and tighten the hold-down nut.

**⚠CAUTION** Rigid conduit must not be connected directly to the box. A minimum of 12" of flexible cable must be used. It is recommended that flexible "UL" approved liquid tight, metal or nonmetallic conduit be used with appropriate fittings. Flexible cable is required to prevent side loading of bearing on bearing mounted clutches and brakes and possible deformation of the conduit box or components during assembly.

### Step 5

If an external power supply is furnishing DC current to the clutch or brake, proceed to Step 5A and skip Step 5B. If a Warner Electric CBC-100 power supply is being installed in the conduit box cover, skip Step 5A and proceed to Step 5B.

### Step 5A

DC Connection. Connect the two supply wires to the two lead wires from the clutch field or brake magnet with the insulated wire nuts furnished (item 7) or other approved connectors. (See Figure 4) Connections must be made properly and insulated appropriately to meet local codes.



Figure 4

### Step 7

Install the cover (item 5) by sliding the slot in the cover over the tab on one end of the conduit box and secure the cover on the opposite end with the No. 10-32 hex washer head screw provided (item 6). See Figure 10. Press protective plug (item 8) into unused hole in cover if DC connection (step 6A) is used.

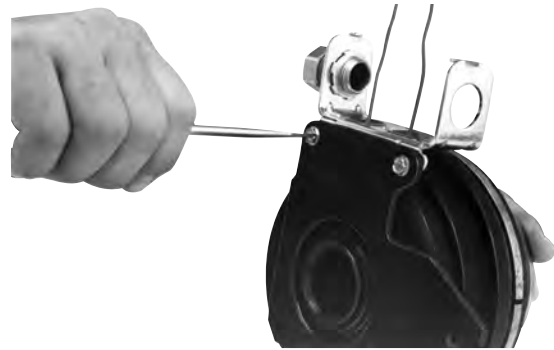


Figure 5

### Step 5B

AC Connection. If the two supply wires entering the conduit box are AC and the CBC-100 power supply is used, refer to installation sheet P-266 provided with the CBC-100, following instructions carefully. To mount the CBC-100 to the conduit box, place the control into the cover so the curved surfaces conform, line up the cover hole with the control mounting hole, and fasten with the screw provided in the control mounting kit. Proper connection of wires is important for proper service.

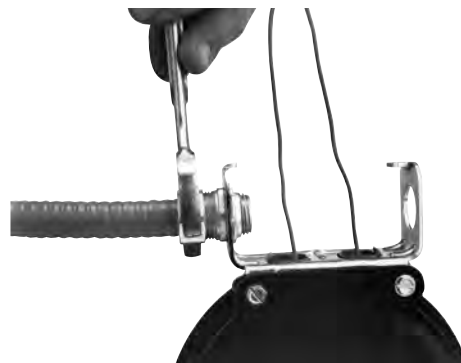


Figure 6

### Step 6

If the conduit assembled in Step 4 is nonmetallic, a third wire must be provided to the conduit box for grounding. Connect this wire with the green ground screw (item 4) and terminal ring (item 4-1) to the hole provided in the floor of the box. (See Figure 9.) Consult local codes regarding grounding requirements.

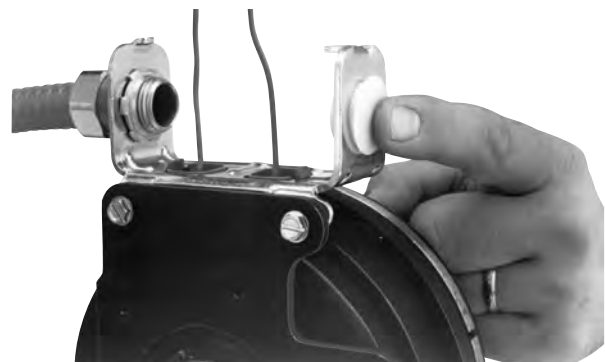


Figure 7



Figure 8



Figure 9



Figure 10

## Warranty

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