

# Series 90 Modutrol Motor Wiring Adapter (14506924-002)

## Installation Instructions

**Warning:** This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

## General

The 14506924-002 Series 90 Modutrol Motor Wiring Adapter ("Adapter") allows a 135-ohm Series 90 Modutrol Motor to operate properly with a 2 to 10V dc Controller signal.

The Adapter mounts under the standard cover of one of the following Modutrol Motors:

- M944A, C, D, and F
- M945A, C, D, and F
- M9184
- M9185

The 2 to 10V dc signal can be an output from one of the following Controllers:

- R7510/7511 Controller in an Excel DDC System
- R7044 Controller in a DeltaNet MicroCentral/Excel Plus, DeltaNet Graphic Central™, or DeltaNet Compact Central System
- DeltaNet MicroCel™ or MacroCel™ ("M-Cel") Controller in a DeltaNet System

The Adapter contains two dual-terminal strips, five insulated leadwires with quick-connect terminals, a resistor grid, and two mounting screws for installation.

## Before Installation, Note:

Each Modutrol Motor requires a separate power transformer.

A R7510/7511 Controller output can drive only one Modutrol Motor.

A R7044 or M-Cel output can drive up to six Modutrol Motors.

# Installation

## ⚠ WARNING ⚠

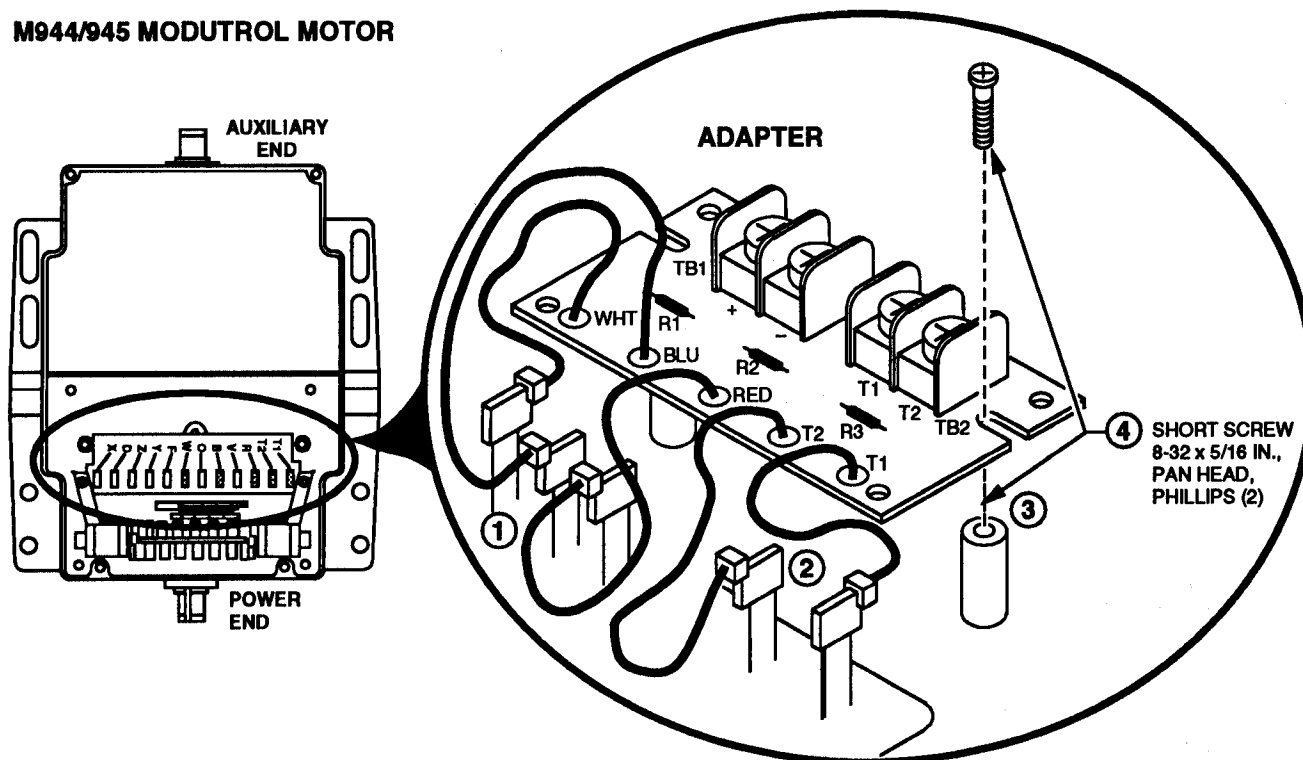
To avoid electrical shock and equipment damage, disconnect (deenergize) power source.

Refer to job drawings for job-specific information.

- ① Remove four screws to detach Modutrol Motor cover.
- ② Orient and connect Adapter per Figure 1 or 2.

NOTE: Save or discard unused hardware as desired.

### M944/945 MODUTROL MOTOR



- ① CONNECT ADAPTER LEADWIRES TO MOTOR TERMINALS PER TABLE. ROUTE WIRES AS SHOWN TO AVOID MOUNTING CONFLICTS.

Leadwire Name, Color, Length	Motor Terminal
T2 Brown 6 in. (152 mm)	T2
RED Red 6 in. (152 mm)	R
BLU Blue 6 in. (152 mm)	B
WHT White 3 in. (76 mm)	W
T1 Black 3 in. (76 mm)	T1

- ② VERIFY LEADWIRES ARE CONNECTED CORRECTLY AND THAT LEADWIRE TERMINALS ARE FIRMLY SEATED.

## ⚠ WARNING ⚠

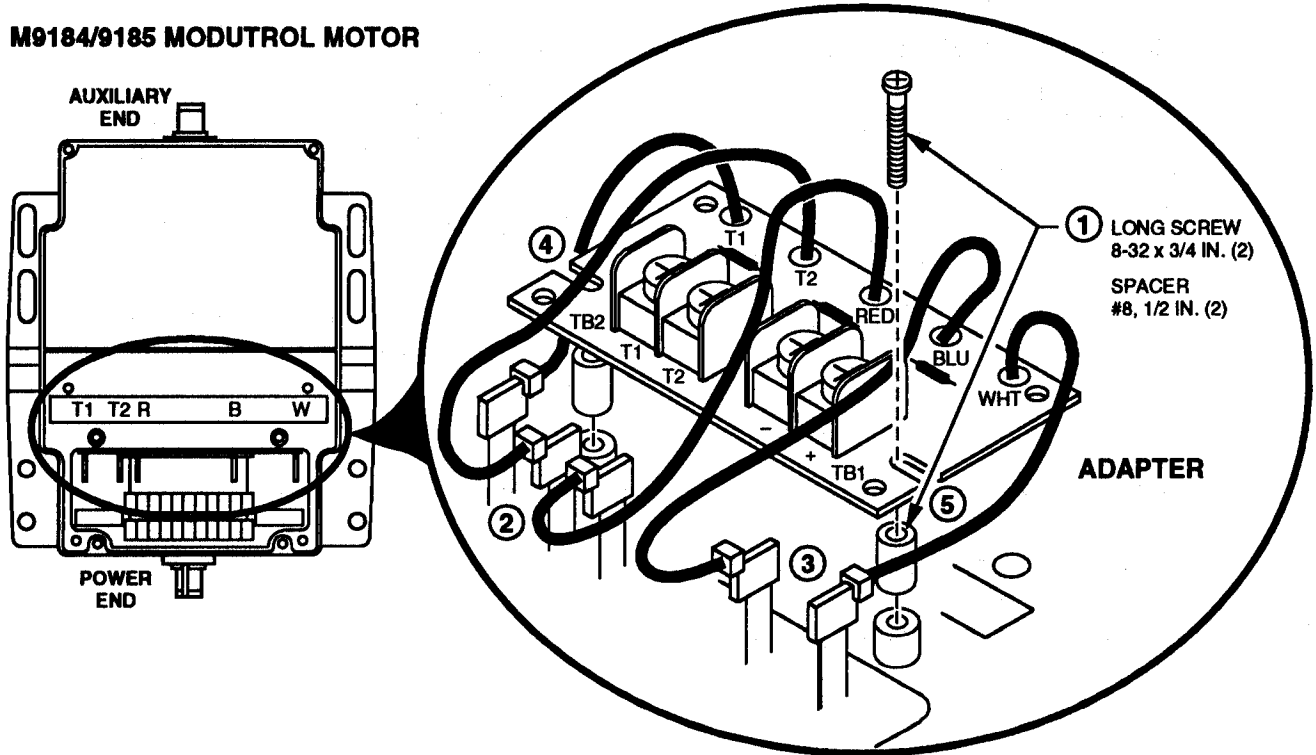
Adapter can be damaged if power is applied when miswired or leadwires are shorted. Check all wiring before applying power.

- ③ MOUNT ADAPTER OVER MOUNTING HOLES.
- ④ SECURE ADAPTER IN PLACE USING SHORT SCREWS SUPPLIED IN BAG ASSEMBLY.

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Fig. 1. Attaching Adapter to M944/945 Modutrol Motor.

**M9184/9185 MODUTROL MOTOR**



- ① INSTALL STANDOFFS AND LONG SCREWS SUPPLIED IN BAG ASSEMBLY. TURN SCREWS 1 TO 2 TURNS (SO SCREWS STAY IN PLACE).
- ② CONNECT ADAPTER LEADWIRES TO MOTOR TERMINALS PER TABLE. ROUTE WIRES AS SHOWN TO AVOID MOUNTING CONFLICTS.

Leadwire Name, Color, Length	Motor Terminal
T2 Brown 6 in. (152 mm)	T2
RED Red 6 in. (152 mm)	R
BLU Blue 6 in. (152 mm)	B
WHT White 3 in. (76 mm)	W
T1 Black 3 in. (76 mm)	T1

- ③ VERIFY LEADWIRES ARE CONNECTED CORRECTLY AND THAT LEADWIRE TERMINALS ARE FIRMLY SEATED.

**⚠ WARNING ⚠**

Adapter can be damaged if power is applied when miswired or leadwires are shorted. Check all wiring before applying power.

- ④ SLIDE LEFT SIDE OF ADAPTER BETWEEN STANDOFF AND SCREW.
- ⑤ TILT RIGHT SCREW TOWARDS OUTSIDE OF HOUSING SO RIGHT SIDE OF ADAPTER CAN SLIDE BETWEEN STANDOFF AND SCREW.  
NOTE: LOOSEN (OR TIGHTEN) SCREW AS NECESSARY.

- ⑥ CENTER ADAPTER BETWEEN MOUNTING SCREWS, TIGHTEN BOTH SCREWS TO SECURE ADAPTER IN PLACE.

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Fig. 2. Attaching Adapter to M9184/9185 Modutrol Motor.

# Wiring

Observe all local electrical codes and ordinances.

- 1 Connect 2 to 10V dc Controller to Adapter per Figure 3.
- 2 Connect 24V dc power to Adapter per Figure 3.

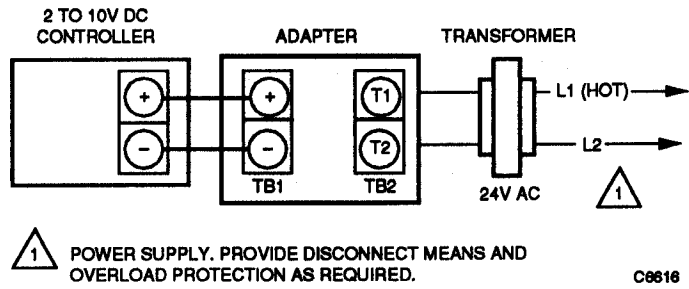


Fig. 3. Connecting 2 to 10V dc Controller Signal and 24V ac Power Wiring to Adapter.

# Final Installation

- 1 Reinstall Modutrol Motor cover using four screws (from Installation procedure).
- 2 Exercise Controller and verify proper Modutrol Motor operation.

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