Excellence Without Compromise

EWC CONTROLS INC.

TECHNICAL BULLETIN

Model MRK

Replacement Motor for the MA-ND3, MA-ND4 and MA-ND5

Leave this bulletin on the job site for future reference!

Contents:
(1) MA-ND5 Motor Actuator

Tools Required:
5/16" Nut Driver
Medium Phillips Screwdriver
Precision Pocket Screwdriver

The MRK Damper Motor Kit is a replacement motor for MA-ND3, MA-ND4 and MA-ND5 motors.

MA-ND5 Technical Data

Power Supply	24 VAC± 20% 50/60Hz
Power Consumption	1.1 W
Transformer Sizing	1.5 VA (Class 2 power source)
Torque	18 in-lb [2 Nm]
Manual Override	External Push Button
Running Time	35 seconds, constant independent of load
Ambient Temperature	-22°F to +140°F [-30°C to +60°C]
Housing	NEMA 1
Agency Listings	cULus
Noise Level	<35dB(A)

Installation and service should be performed by qualified personnel only. Follow all local & national, mechanical & electrical codes & ordinances.

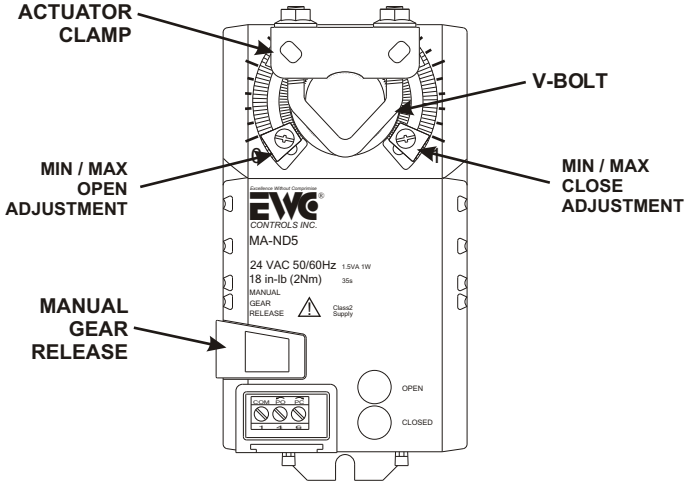


Figure 1: New MA-ND5 Motor Actuator

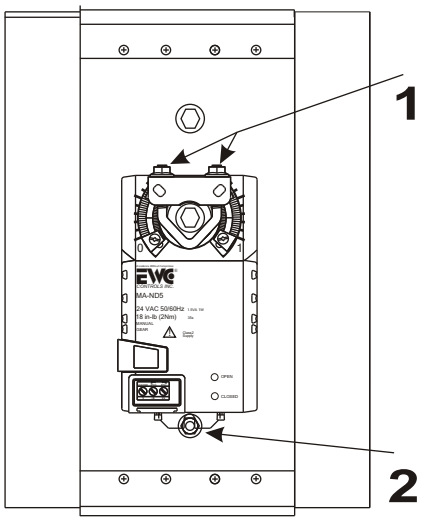
TB-225

BEFORE YOU BEGIN

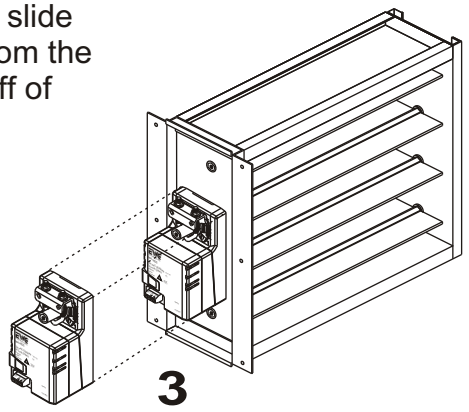
-Read all instructions first.
-Gather the necessary tools to complete the replacement.
-Disconnect 24vac power supply.
-Tag and remove low voltage wires from existing actuator.

Removing and Reattaching Motor

1 Using the 5/16" nut driver loosen the two nuts from the "U shaped bolt" that holds the motor to the shaft of the damper.



2 With the 5/16" nut driver, remove the anti-rotation nut from the bottom of the motor and slide motor away from the damper and off of the shaft.



3 Slide the new motor onto the damper in place of the old one. While pressing the manual gear release button, rotate the "U shaped bolt" clockwise until the motor is in the fully closed position. Return the damper blades to the closed position by rotating the shaft clockwise until it reaches its fully closed position. With both the motor and the damper in the fully closed position reinstall and tighten the 5/16" anti-rotation nut. Next tighten both nuts on the "U" shaped bolt securing the motor to the shaft of the damper. Finally re-attach the low voltage wires.

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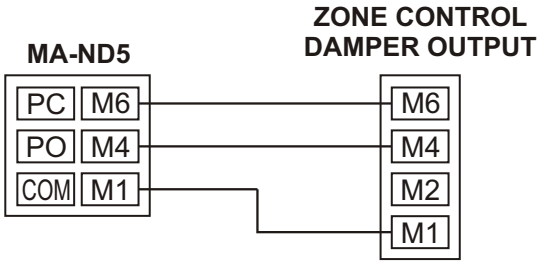
WIRING SOLUTIONS

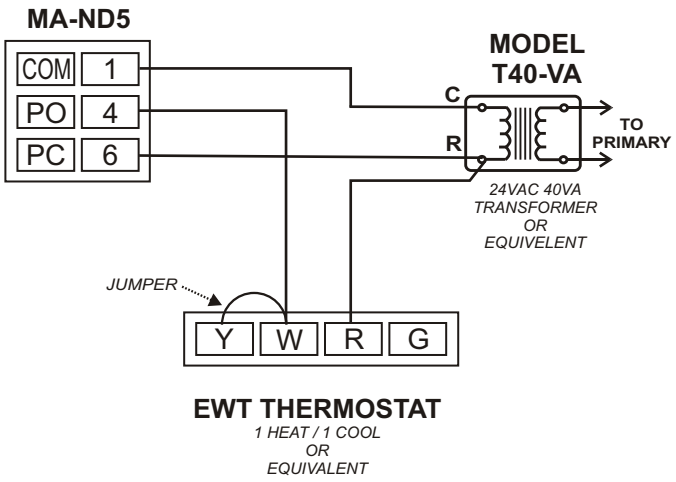
Motor Actuator Terminals

TERMINAL	DESCRIPTION
1 / COM	24v Common
4 / PO	24v Power to Open
6 / PC	24v Power to Close

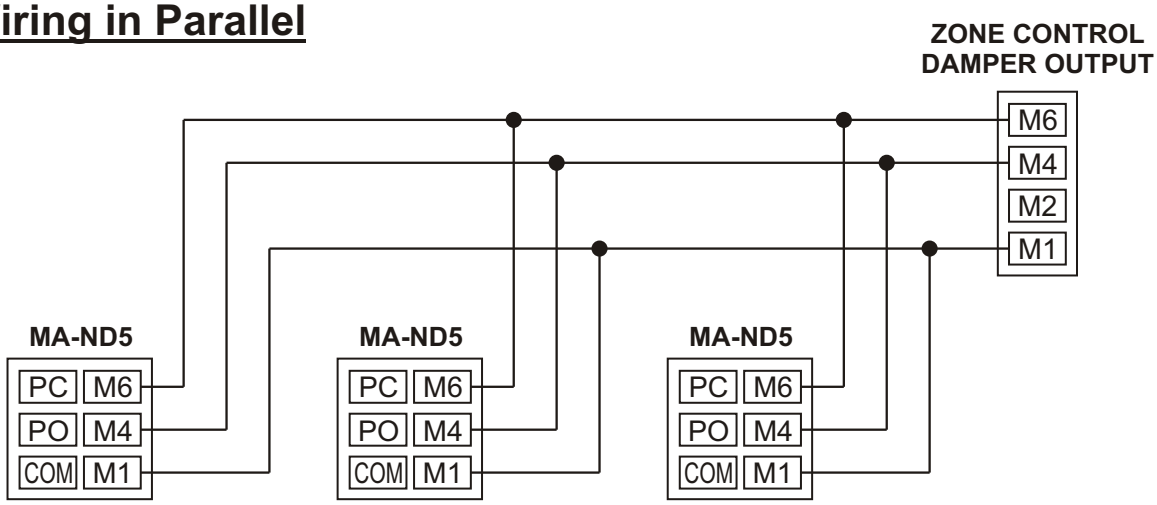
Wiring to a Zone Control Panel



Wiring a Thermostat to Control a Single Damper



Wiring in Parallel



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