

Spring-Set Brake Module

P-1249
819-0390

Installation Instructions



An Altra Industrial Motion Company

The Warner Electric Spring-Set Brake Module is designed to function as a holding brake for NEMA C-face motors. The brake is self-engaging when the power is turned off or unintentionally interrupted. It is to be mounted between a C-face motor and a C-face gear reducer. Do not apply overhung or side loads to the output shaft of the Spring-Set Brake Module.

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

Mounting the Brake to a Motor

1. Inspect the motor shaft and keyway for burrs or damage. Remove all burrs and repair damage so the brake module can freely slide onto the shaft.
2. Insert the provided input key into the motor shaft keyway. If necessary, prick punch the motor shaft keyway to prevent the key from sliding back while installing the brake module. (Figure 1)
3. The input hub setscrews and the largest ventilation slots on the housing must be aligned to provide hex wrench access for tightening to the motor shaft. If they are not already aligned, apply the rated voltage to the brake coil to release the brake, and then rotate the shaft until the setscrews and slots are aligned. (Figure 2)
4. Align the motor shaft and key with the brake module keyway and slide the module onto the motor shaft until the housing is in full contact with the motor face. Do not use excessive force. If the module does not freely slide on, remove it and repair any burrs or damage on the shaft.
5. Rotate the brake housing and/or shaft until the input hub setscrews are accessible with a long hex wrench. A flashlight may be required to see the screws between the motor face and the brake face.

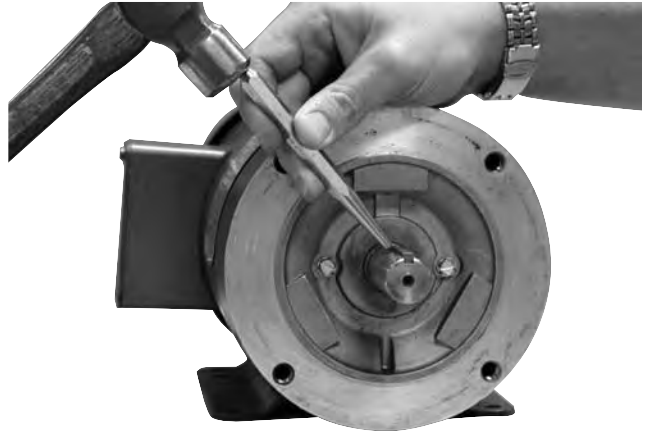


Figure 1

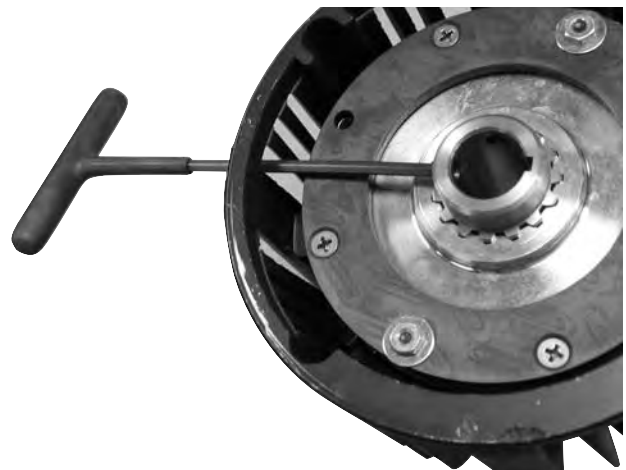


Figure 2

6. Secure the brake module to the motor C-face with the four hex head capscrews and washers that are provided. (Figure 3)
7. Rotate the brake housing to align the four mounting holes with the threaded holes in the motor face. If possible, position the brake module with the ventilation slots facing down to prevent foreign matter from falling into the unit during operation.
8. With the brake module housing in full contact with the motor face, securely tighten both input hub setscrews to the motor shaft by inserting a long hex wrench through the housing ventilation slots. (Figure 4)

Mounting to a Gear Reducer

1. Align the module output shaft and key with the reducer bore and keyway.
2. Slide the assembly together until the module and reducer faces are in full contact.
Do not use excessive force.
3. Secure the module to the gear reducer flange using four 3/8-16, UNC-2A bolts (typically furnished with the reducer).

Electrical Connections

The brake module housing is threaded for standard conduit connectors. The brake lead wires are fed through this hole and are to be connected to a DC power source with the same voltage as that listed on the brake module label. An optional conduit box kit can be purchased to facilitate this connection (Warner part number 5370-101-042).

If a user provided DC power source is not available, any of Warner Electric's CBC-100, CBC-150, or CBC-801 controls may be used (selection based on user requirements). Refer to the installation sheet included with the control for connection information.



Figure 3



Figure 4

Warranty

Warner Electric LLC warrants that it will repair or replace (whichever it deems advisable) any product manufactured and sold by it which proves to be defective in material or workmanship within a period of one (1) year from the date of original purchase for consumer, commercial or industrial use.

This warranty extends only to the original purchaser and is not transferable or assignable without Warner Electric LLC's prior consent.

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Changes in Dimensions and Specifications

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