

UNIMOUNT® PREMIUM
EFFICIENCY
UNIMOUNT® MULTISPEED

MODULAR KIT INSTRUCTION MANUAL



Countless Solutions. Expert Support.



ATTENTION: Read carefully before attempting to install, operate, or service your motor.
Retain for future reference.

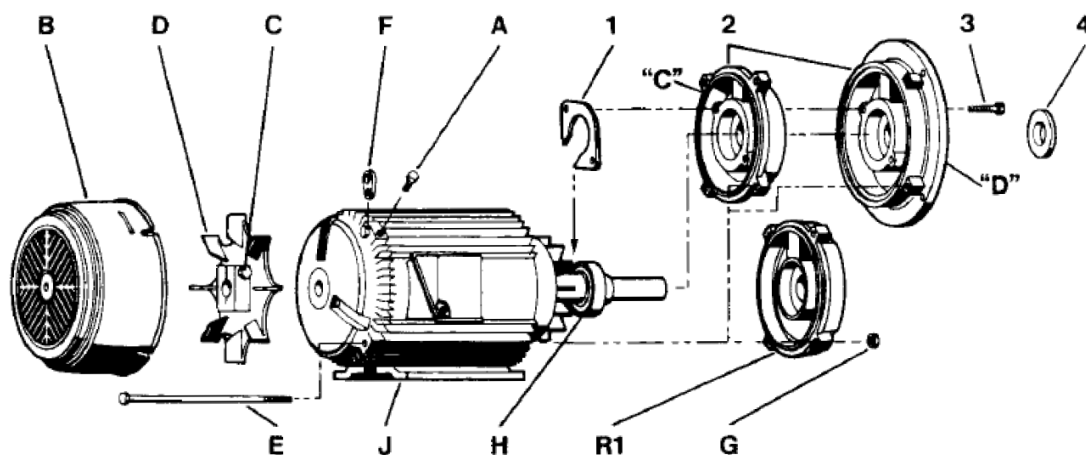
Safety First, Protect Yourself and Your Equipment

1. Be familiar with the equipment and read your manual thoroughly before you work on the equipment
2. Always disconnect electrical power at the motor starter, fuse box, or circuit breaker before handling electrical connections. Double check to be sure power is off and that it cannot be turned on while you are working on the equipment.
3. Use proper electrical installation wiring and controls consistent with local and national electrical codes. Refer to "National Electrical Code Handbook" — NFPA No. 70. Employ qualified electricians.
4. Refer to motor nameplate for proper power supply requirements. Be sure connections are tight and adequately taped to prevent shorts and to assure maximum protection against moisture.
5. Be sure unit is electrically grounded and mounting bolts are secure.
6. Keep tools, clothing and hands away from rotating or moving parts while equipment is running.
7. Use safety glasses to protect your eyes when inspecting equipment while it is running.

The above should not be considered as limiting in safety precautions to be followed.
Local conditions, environments and prudent judgement in safety should be considered at all times.

NEMA "C" FACE IS STANDARD FOR 56-140T FRAME, ALL TYPES EXCEPT UT MULTISPEED, UTE AND UTN.

NEMA "C" FACE KIT INSTALLATION PROCEDURE-180T-280T FRAME & NEMA "D" FLANGE KIT INSTALLATION PROCEDURE-180T FRAME



DISASSEMBLY

- 1. Unscrew screws (item A-Qty. 4) and remove fan cover (item B).
- 2. Loosen dolt(s) (item C) and remove fan (item ID).
- 3. Remove nuts and overbolts (items G & E-Qty. 4 each) and lifting tugs (item [-Qty. 2) and note position for later reassembly.
- 4. Remove pulley end bracket, (item R-1). Item R-1 not required for reassembly.
- 5. Move rotor assembly, (item H) forward until front bearing is clearly visible as shown.
- 6. After disassembly (step 5) check to see if motor has snap ring out boardof bearing. If not install snap ring provided in this kit.

REASSEMBLY

- 7. Fill "C" (D) bracket grease cavity 12 full of grease (Sec operating instructions).
- 8. Insert nevy bearing clamp (item 1) behind bearing as indicated.
- 9. Position new "C" ("D") bracket (item 2) and align bearing clamp holes with corresponding "C" ("D") bracket holes.
- 10. Insert new hearintj cfarnp screws (item 2-nty 7), Aild alternately tighten
- 11. Position "C" ("D") bracket and rotor assembly (items 2 & H) with motor frame. Align bolt holes with those on short end bracket.

FRAME SIZE	TORQUE VALUE
180	6 lb ft.
210 thru 280	12 lb. ft.

NOTE: 180 "C" bracket with 8-1/7 inch AK does not require reinstallation of nuts (item G) or lifting lug (item F) on pulley end.

- 13. Replace fan (item D) and tighten bolt(s) (item C).
- 14. Replace fan cover (item B) and secure with screws (item A-Qty. 4).
- 15. Place water deflector (item 4-Qty. 1) over shaft and press against bracket face
- 16. Rotate shaft by hand several times to ensure free movement and proper reassembly.

If NEMA mounting dimensions are required. mounting base (item J) must be repositioned... refer to mounting feet rennovalfreeosition procedure on pages 2 & 3.

MOUNTING BASE ON 56-140T FRAMES ARE WELDED AND CANNOT BE REMOVED.

MOUNTING FOOT REMOVAL/REPOSITION PROCEDURE (NEMA "C" FACE & "D" FLANGE) — 180T FRAME

DISASSEMBLY/REMOVAL

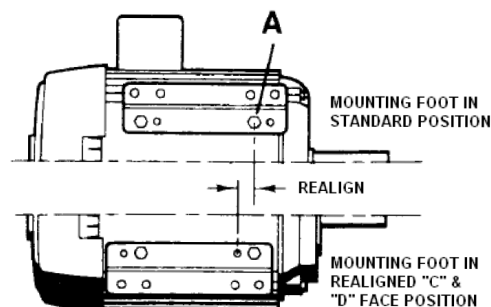
1. Remove all screws, (item A-Qty. 4). Notice location of holes used in mounting feet, standard position.

NOTE: For footless installation, screws & mounting feet are not required.

REASSEMBLY

2. Move mounting feet MOUNTING FOOT IN 0 REALIGNED & toward rear of motor until FACE POSITION the second set of holes in motor feet are aligned with holes in frame.

3. Replace and tighten all screws (item A-Qty. 4) securely to the torque value shown on mounting feet.



MOUNTING FOOT REMOVAL/REPOSITION PROCEDURE (NEMA "C" FACE) — 2101-280T FRAME

NOTE: 280 FRAME UNITS ALREADY MEET NEMA "C" FACE MOUNTING. BASE CANNOT BE REPOSITIONED.

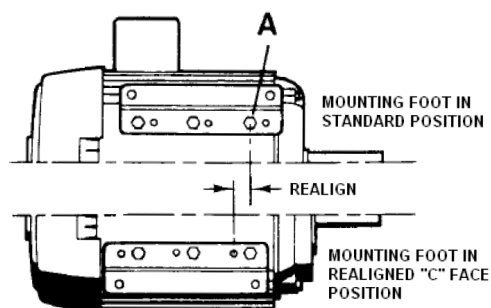
DISASSEMBLY

1. Remove all screws (item A-Qty. 6). Notice marking on bottom of feet, indicating position of feet with use of standard bracket.

NOTE: For Footless installation, screws & mounting feet are not required.

REASSEMBLY

2. Interchange mounting feet so that marking P.E. C is closest to shaft. 250T Frame only
3. Replace and tighten all screws (item A-Qty. 6) securely to the torque values indicated on mounting feet.



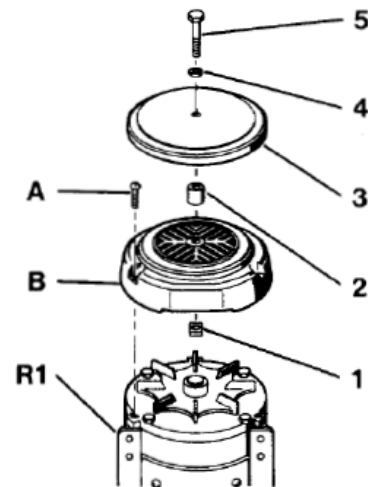
CANOPY CAP KIT INSTALLATION PROCEDURE - 56-140T FRAME DISASSEMBLY

1. Unscrew screws (item A-Qty. 3) and remove fan cover (item B)

REASSEMBLY

2. Place square nut (item 1) into recess inside fan cover.
3. Position spacer, canopy cap, lock washer and bolt (items 2, 3, 4, and 5) on fan cover (item B) as shown and tighten.
4. Reposition fan cover (item B) and secure with screws (item A-Qty. 3).

Mounting base is welded and cannot be removed.



CANOPY CAP KIT INSTALLATION PROCEDURE — 180T-280T FRAME

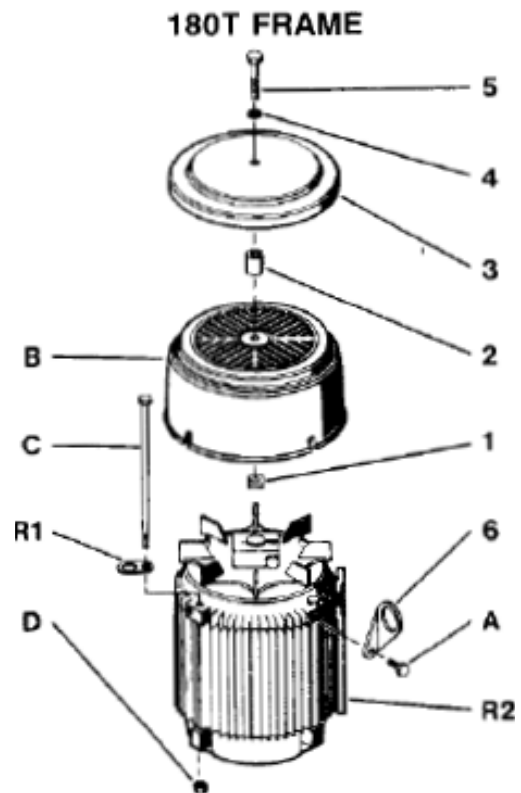
DISASSEMBLY

1. Unscrew screws (item A-Qty. 4) and remove fan cover (item B).
 2. Remove old lifting lugs (item R1-Qty. 2) by unscrewing overbolts and nuts (items C and D-Qty. 2 each). Item R1 not required for reassembly.
- NOTE: Loosen remaining overbolts to assure proper seating of bracket during reassembly.

180T FRAME REASSEMBLY

3. Replace overbolts and nuts (items C and D-Qty. 2 each) and alternately tighten all 4 overbolts to a torque of 6 lb. ft.
4. Place square nut (item 1-Qty. 1) into recess inside fan cover.
5. Position spacer, canopy cap, lock washer and screw (items 2, 3, 4, and 5-Qty. 1 each) on fan cover as shown and tighten.
6. Replace fan cover (item B).
7. Place new lifting lugs (item 6-Qty. 2) across from each other, outside fan cover, and tighten screws (item A-Qty. 4) to 6 lb. ft.

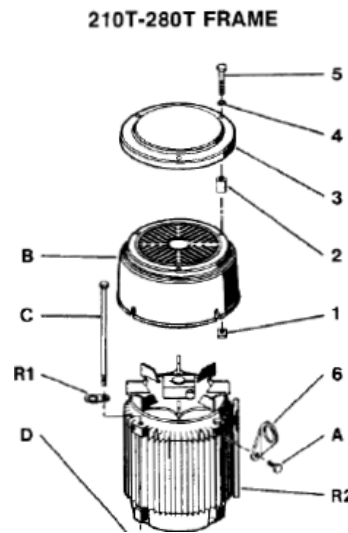
If feet (item R2) are not required for footless installation, refer to mounting footremoval/reposition procedure on page 2.



210T-280T FRAME REASSEMBLY

3. Replace overbolts and nuts (items C and D-Qty. 2 each) and alternately tighten all 4 overbolts to a torque of 12 lb. ft.
4. Place square nuts (item 1-Qty. 3) into recesses inside fan cover.
5. Position spacers, canopy cap, lock washers and screws (items 2, 4, and 5-Qty. 3; item 3-Qty. 1) on fan cover as shown and tighten.
6. Replace fan cover. (item B).
7. Place new lifting lugs (item 6-Qty. 2) across from each other, outside fan cover, and tighten screws (item A-Qty. 4) to 12 lb. ft.

If feet (item R2) are not required for footless installation, refer to mounting foot removal/reposition procedure on page 3.



ELECTRIC BRAKE KIT



Brake Kit modules are available for 56, 140T, 180T and 210T frames. (4, 6 & 8 Pole).

Each kit is provided with its own specific installation instructions due to its detailed installation and electrical requirements.

Refer to your NIDEC MOTOR CORPORATION Sales Office or local distributor for it number, price and availability.

NIDEC MOTOR
CORPORATION
8050 W FLORISSANT
ST. LOUIS, MO 63136

www.usmotors.com

