



3108706.916 MOTOR REPLACEMENT KIT

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**SERVICE CENTER &
DEALER LOCATIONS**
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www.Dometic.com

WARNING

This manual must be read and understood before installation, adjustment, service, or maintenance is performed. This unit must be installed by a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

AVERTISSEMENT

Lire et comprendre ce manuel avant de procéder à l'installation, à des réglages, de l'entretien ou des réparations. L'installation de cet appareil doit être effectuée par un réparateur qualifié. Toute modification de cet appareil peut être extrêmement dangereuse et entraîner des blessures ou dommages matériels.

SERVICE INSTRUCTIONS

3108706.916
MOTOR REPLACEMENT KIT

REVISION A

Form No. 3108446.026 12/17
(French 3108893.029_A)
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LaGrange, IN 46761

SAFETY INSTRUCTIONS

This manual has safety information and instructions to help users eliminate or reduce the risk of accidents and injuries.

RECOGNIZE SAFETY INFORMATION



This is the safety-alert symbol. When you see this symbol in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating instructions.

UNDERSTAND SIGNAL WORDS

A signal word, **WARNING** OR **CAUTION** is used with the safety-alert symbol. They give the level of risk for potential injury.

! WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

! CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

! CAUTION When used without the safety alert symbol indicates, a potentially hazardous situation which, if not avoided, may result in property damage.

Read and follow all safety information and instructions.

GENERAL INSTRUCTIONS

! WARNING

These instructions must be read and understood before installation of this kit. This kit must be installed by a Dometic Service Center or a qualified service technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage.

A. Product features or specifications as described or illustrated are subject to change without notice.

B. Precautions

1. Read instructions carefully before attempting to start installation.
2. Dometic Corporation will not be liable for any damages or injury incurred due to failure in following these instructions.
3. All field wiring modification should be made in compliance with the latest edition of ANSI/NFPA 70 N.E.C. and ANSI A119.2 for Recreational Vehicles; and any State or Local Codes or regulations.
4. This equipment must be installed by qualified personnel and some states require these people to be licensed.

C. Tools Required:

1. Screwdriver
2. Wire Cutters/Strippers
3. Pliers, Wrenches
4. Electrical Tape

D. Kit Contains:

- | | |
|---------|--|
| (1ea.) | 3106887.007 or 3309996.001 Motor |
| (1ea.) | 3107914.008 Fan Blade |
| (1ea.) | 304507.170 White Wire |
| (1ea.) | 3100248.412 Capacitor |
| (1ea.) | 3104887.009 Wheel, Blower |
| (3 ea.) | 20009.002 Wire Nuts |
| (1ea.) | 3108446.026 Instructions |
| (5 ea.) | 3108703.020 Terminals |
| (1ea.) | 3103844.027 Motor Support for 3106887.007 or 3103844.068 Motor support for 3309996.001 |
| (4 ea.) | 3100230.022 grommet |
| (4 ea.) | 308046.002 Motor Spacer for 3106887.007 or 308046.007 Motor Spacer for 3309996.001 |
| (4 ea.) | 306342.003 Flange Nut |

INSTALLATION INSTRUCTIONS

- A.** Turn all AC and DC power off to the air conditioner at circuit breaker.

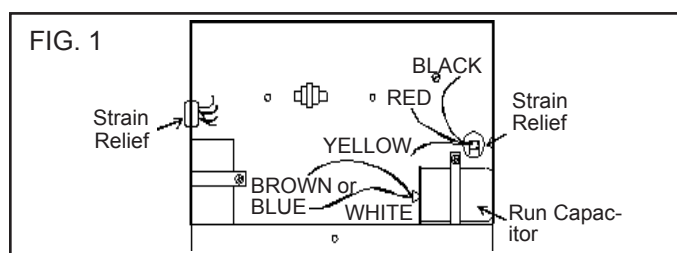
⚠ WARNING

Disconnect 120 volt AC and 12 volt DC. Failure to follow these instructions could create a shock hazard causing death or severe personal injury.

- B.** Remove shroud and covers that restrict access to the electrical wiring for the motor.
- C.** If electrical box resembles Figures 1, 2, 3, or 4, use instructions for that figure.

D. WIRING REMOVAL

1. Figures 1 and 4:



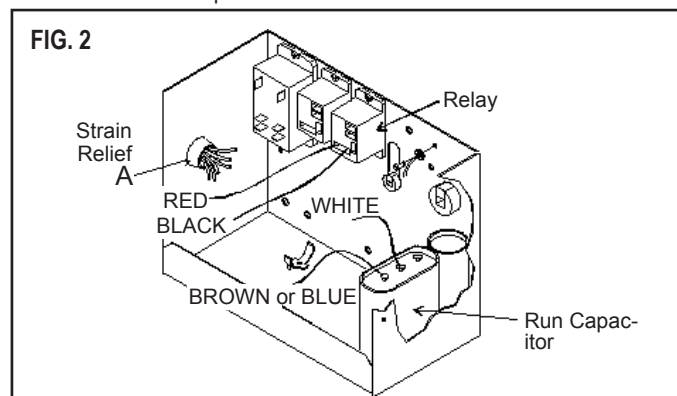
- Remove Brown (or Blue) and White motor wires from run capacitor.
- Cut Black, Red and Yellow motor wires 6" to 8" from strain relief (B).

Note: Some models may have wire crimp connectors on the Black, Red and Yellow motor wires. Cut off connectors and discard.

- Remove strain relief (A). Pull motor wires out toward motor.
- Remove motor, support bracket, fan blade and wheel.

2. Figure 2:

- Remove Brown (or Blue) and White motor wires from run capacitor.



- Cut Black and Red wires 6" from relay.

Note: Yellow motor wire is not used.

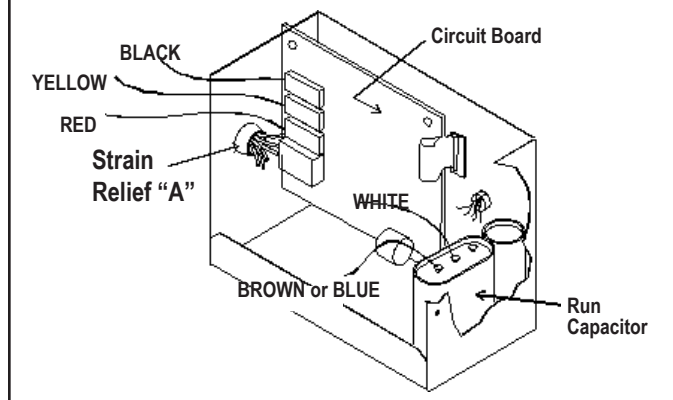
- Remove motor, support bracket, fan blade and wheel.

3. Figure 3:

- Remove Brown (or Blue) and White motor wires from run capacitor.

- Cut Black, Red and Yellow wires 6" from circuit board.

FIG. 3



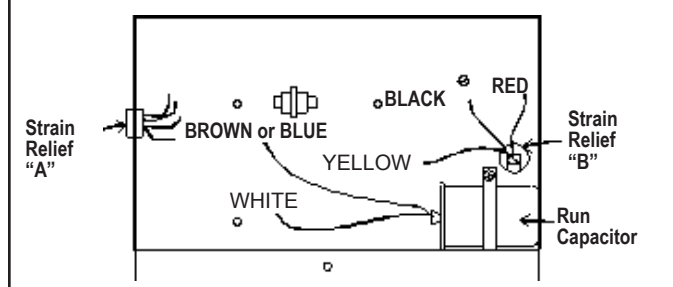
- Remove strain relief "A". Pull motor wires out toward motor.
- Remove motor, support bracket, fan blade and wheel.

D. WIRING INSTALLATION

1. Figures 1 and 4:

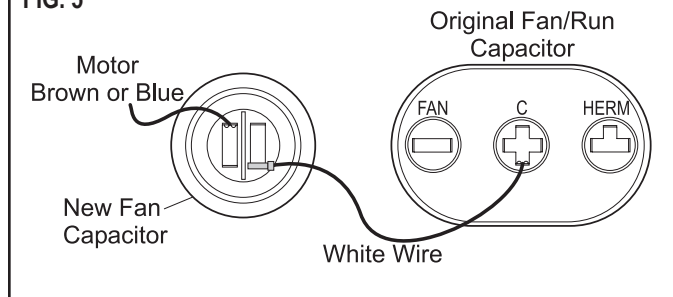
- Replace motor, support bracket, fan blade and wheel with the new ones supplied in kit. Run wires into electrical box and insert wires into strain relief "A". Replace strain relief.
- Mount the new fan capacitor in the electrical box, using the existing strap and screw.

FIG. 4



- Connect the 6" White wire (supplied in kit) to the "C" or Common Terminal of the Fan/Run Capacitor. Connect the other end of the 6" White wire on the identified terminal of the new fan capacitor. See FIG. 5
- Reconnect Brown (or Blue) and White motor wires to the remaining terminal on the new fan capacitor. See FIG. 5
- Cut Black, Red and Yellow motor wires to approximate length to connect to same color wires from strain relief "B" and circuit board. See FIG. 3.
- Strip each Black, Red and Yellow wire 3/4". Twist Black

FIG. 5



to Black, Red to Red and Yellow to Yellow with wire nut and tape.

- g. Check all connections for proper installation and replace electrical box cover.
- h. Turn on the AC and DC power and test the unit for proper operation.

2. Figure 2:

- a. Follow Section D, Steps 1 through 8 in FIG. 1.

Note: Step 4 - Yellow wire is not used. Cap with wire nut and tape end.

3. Figure 3:

- a. Follow Section D, Steps 1 through 8 in FIG. 1.