

MODELS 506 & 507 CHAIN PULL FANS

BROAN®

READ AND SAVE THESE INSTRUCTIONS

WARNING

TO REDUCE THE RISK OF FIRE ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.
2. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
3. Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction codes and standards.
4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
5. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
6. Ducted fans must always be vented to the outdoors.
7. If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application.
8. Never place a switch where it can be reached from a tub or shower.
9. This unit must be grounded.

TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

1. Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
2. Always turn hood ON when cooking at high heat or when cooking flaming foods.
3. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
4. Use proper pan size. Always use cookware appropriate for the size of the surface element.

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:*

1. SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.
2. NEVER PICK UP A FLAMING PAN - You may be burned.
3. DO NOT USE WATER, including wet dishcloths or towels - a violent steam explosion will result.
4. Use an extinguisher ONLY if:
 - A. You know you have a Class ABC extinguisher and you already know how to operate it.
 - B. The fire is small and contained in the area where it started.
 - C. The fire department is being called.
 - D. You can fight the fire with your back to an exit.

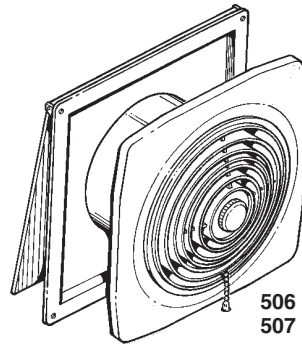
*Based on "Kitchen Firesafety Tips" published by NFPA.

CAUTION

1. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
2. To avoid motor bearing damage and noisy and/or unbalanced impellers, keep drywall spray, construction dust, etc. off power unit.
3. Please read specification label on product for further information and requirements.
4. The wearing of safety glasses and gloves is recommended when installing, maintaining or cleaning the unit to reduce the risk of injury that could be caused by the presence of thin metal and/or high moving parts.

If this fan is to be used to ventilate a garage:

- A. Use only in single family, residential garages
- B. Install in a GFCI protected branch circuit
- C. To help offset the risk posed by high concentrations of vapors from paints, glues, solvents, and fuels, install fan at least 18 inches (0.5m) above the floor
- D. NEVER run a vehicle or use a fuel burning appliance inside of a garage. Deadly levels of carbon monoxide can build up in the area. Using this garage fan, or opening windows and doors, will NOT supply enough fresh air to eliminate the danger.
- E. Run regularly if exposed to salty air environments
- F. Extra cleaning may be required due to possible dirty surroundings



**INSTALLER: Leave This Manual With The Homeowner.
HOMEOWNER: Use and Care Information on Page 3.**

TOOLS AND MATERIALS REQUIRED

- Straight blade screwdriver
- Drill and drill bits
- Hammer
- Pliers
- Tape measure or ruler and pencil
- Circular saw
- Saber saw or drywall saw
- Electrical supplies of type needed to comply with local codes
- 4-1/2" of 1" x 2" lumber for casing strips
- High quality caulking compound.

TYPICAL INSTALLATION

This unit mounts in walls 4-1/2" to 9-1/2" thick. Outside housing flange is fastened to casing strips. If sheathing behind siding is not wood, provide extra supports between walls, nailed or screwed to siding. (FIG. 1)

PREPARE FAN

1. Remove motor assembly by loosening mounting screws, rotating assembly, and lifting it out of inner housing.
2. Use care when handling motor bracket assembly to prevent damage to blade. Do not set down assembly with weight of motor resting on the blade.
3. Pull inner housing out of outer housing. (FIG. 2)
4. Remove knockout from bottom of wiring box (provided in parts bag). (FIG. 3)

INSTALL FAN

5. From inside room, choose fan location. Make sure that wall stud does not run through location. Lay out housing opening on wall. (FIG. 4)

INSTALLER - PLEASE NOTE:

Center of housing opening must be a minimum of 5 feet above the floor.

If fan will be installed higher than 5 feet above the floor: Make sure that user(s) can comfortably reach chain and can pull chain in and out horizontally to operate.

6. Transfer center of circle to outside wall.
7. Cut out round hole on inside wall.
8. On outside wall, lay out 14-1/2" square around marked center location. (FIG. 5)
9. Cut hole in **siding only**. DO NOT CUT SHEATHING. Nail down all loose ends. (FIG. 6)
10. Cut round hole in sheathing.
11. Install 1" x 2" casing strips on side of square. (FIG. 7)
12. Measure wall thickness and remove appropriate knockout(s). (FIG. 8)
13. Put large bead of caulk on inside of outer housing flange. Insert outer housing into hole in outside wall and use inner housing to test the fit.
14. Nail or screw outer housing to casing strips. Caulk all around outside of flange and casing strips. Do not fasten door closed.
15. Run wiring to installation location.
16. Remove chain and switch trigger from parts bag. Thread chain through chain lock on inner housing then through switch trigger, emboss on inner housing, and attach to clip on door of outer housing. (FIG. 9)
17. Insert inner housing into wall and pull wiring through opening in housing. Use (3) black sheet metal screws, provided in parts bag, to fasten housing halves together. (FIG. 10)
18. Attach wiring to wiring box with proper type of connector. (FIG. 10)
19. Make electrical connections to wiring box cover as shown. Make sure unit is grounded using green ground screw. Place wiring box into housing opening and install wiring box cover with (2) sheet metal screws provided in parts bag. (FIG. 10)
20. Insert tab on switch trigger into slot in wiring box cover and place trigger over switch. (FIGS. 9 & 10)
21. Reinstall motor assembly and tighten screws securely. Plug motor into receptacle on wiring box cover. Spin blade by hand to check clearance.
22. Thread chain through grille so it passes over wear plate.

FIG. 1

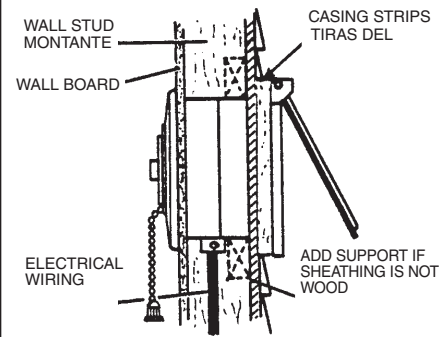


FIG. 2

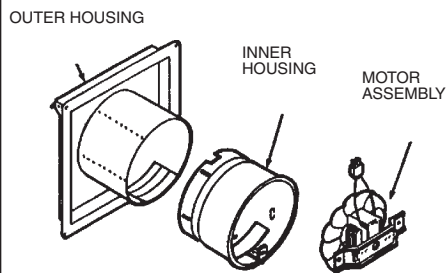


FIG. 3

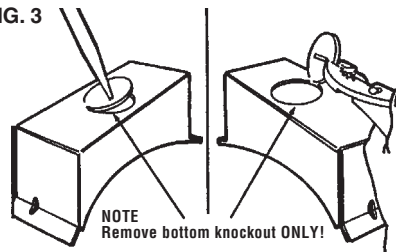


FIG. 4

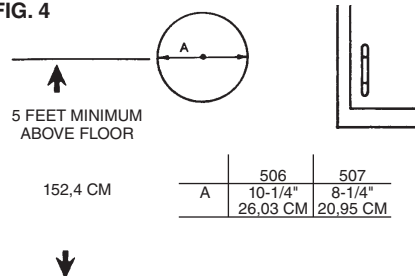


FIG. 5

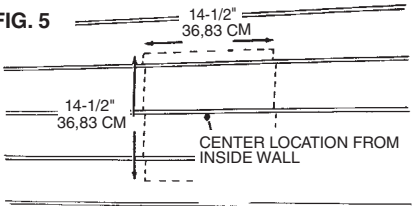
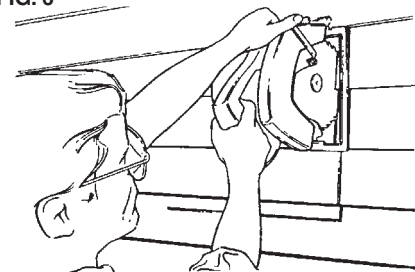


FIG. 6



23. Fasten grille to motor bracket with grille stud and knob from parts bag.
24. Turn on power and check operation of fan.

USE AND CARE

DISCONNECT ELECTRICAL POWER SUPPLY BEFORE SERVICING FAN.

Always unplug the fan motor before servicing the fan. The motor bearings on this fan are permanently lubricated and will never need oiling.

Clean the fan blade and motor every six months by removing the grille, unplugging the motor and gently vacuuming the fan blade and motor.

Clean the grille in warm, soapy water. Use a mild detergent, such as a dishwashing liquid. **DO NOT USE ABRASIVE CLOTHS, STEEL WOOL OR SCOURING POWDERS.**

If the fan makes excessive noise or if there is unusual noise or smells of smoke, disconnect power supply and contact customer service.

FIG. 7

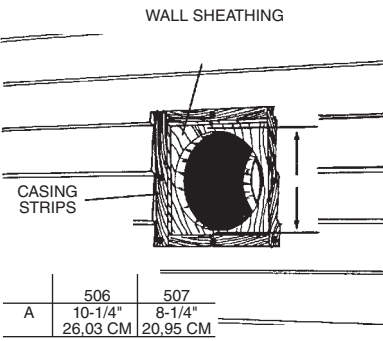


FIG. 8

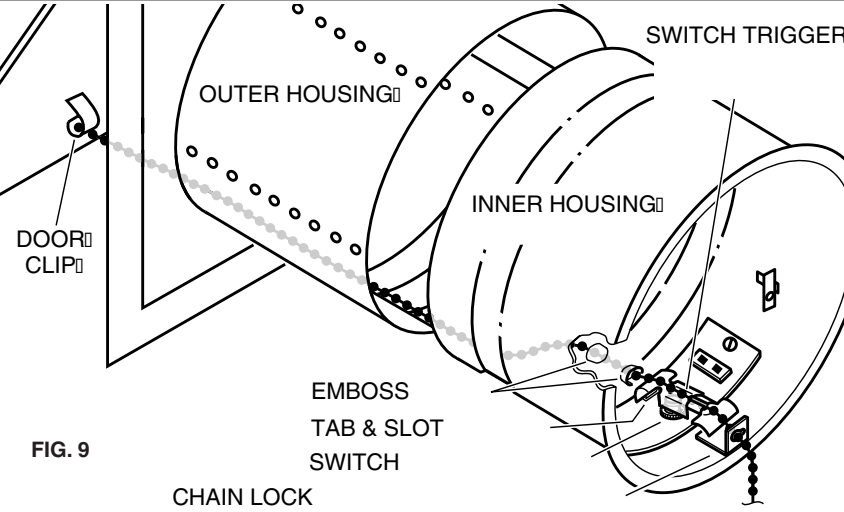
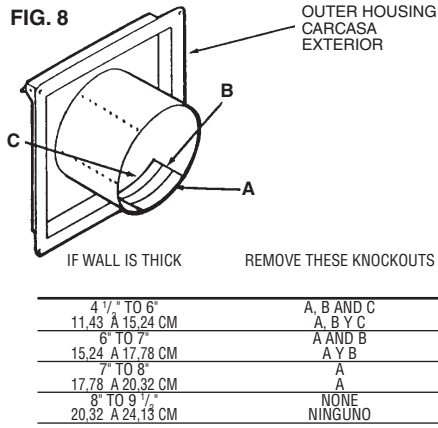
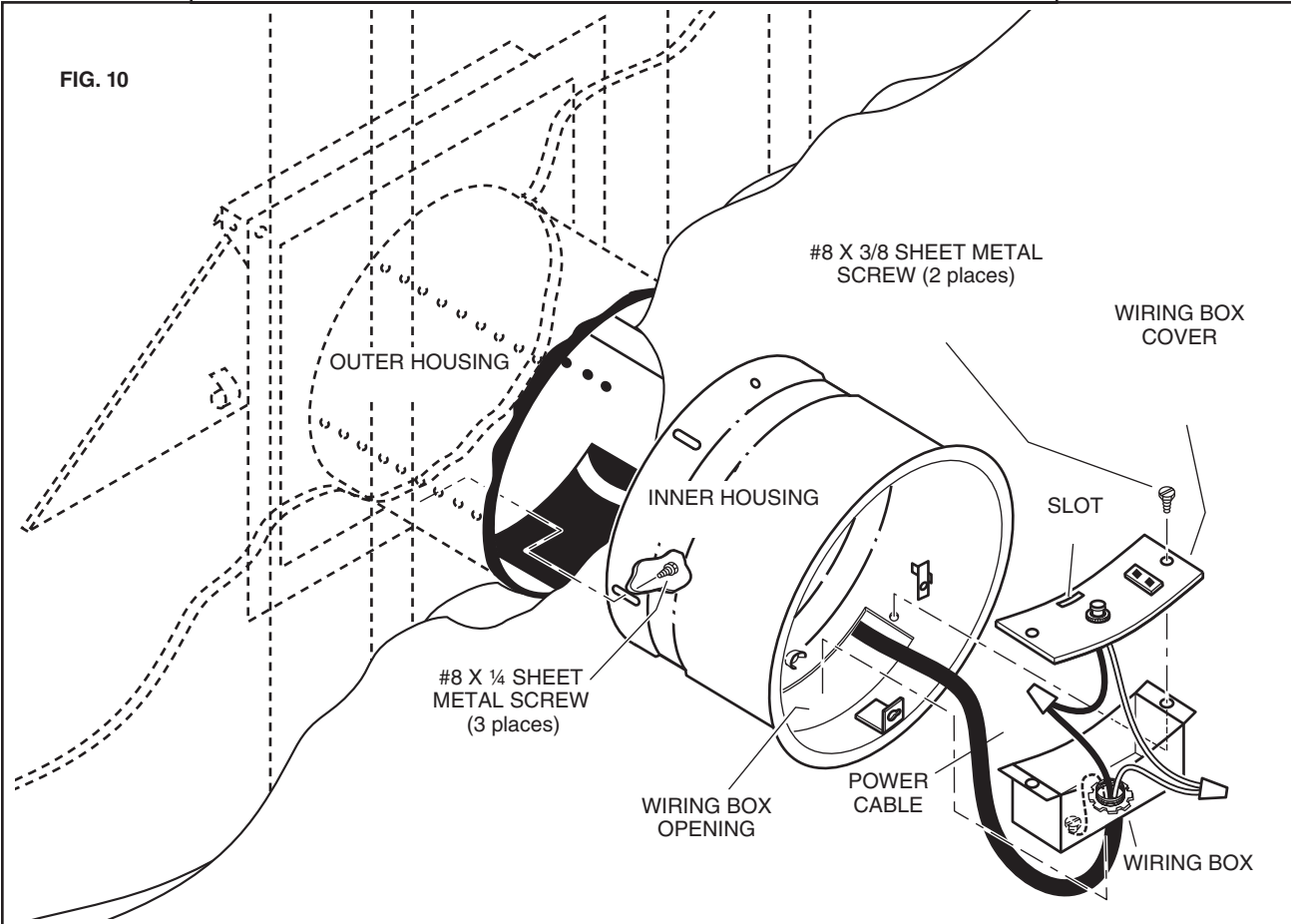
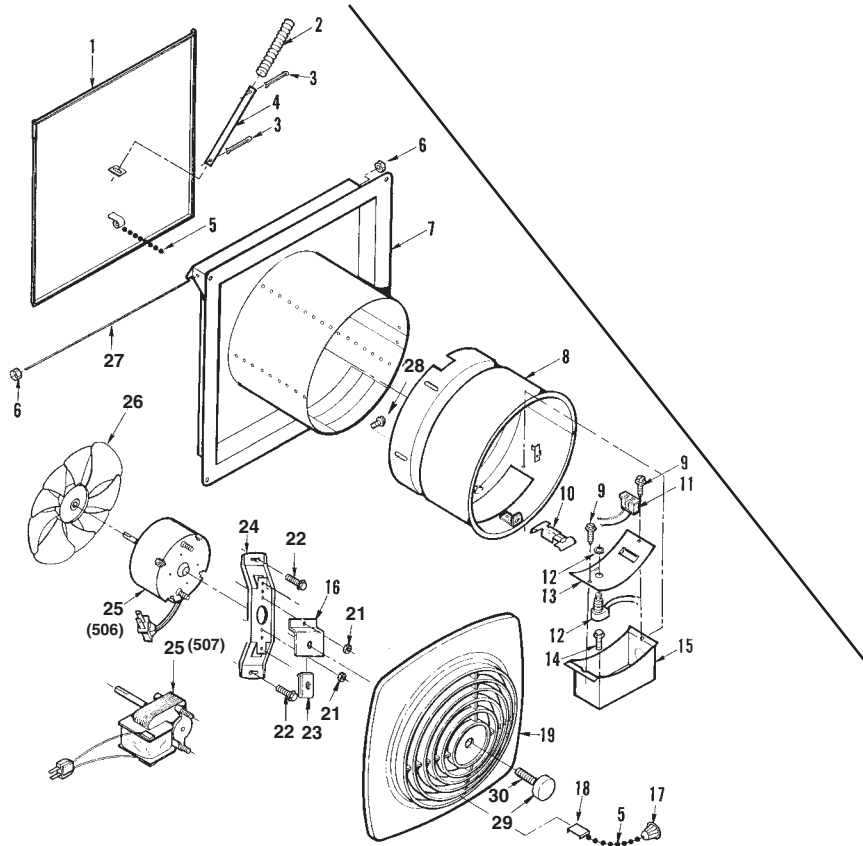


FIG. 10





SERVICE PARTS

MODELS 506 & 507

DESCRIPTION	KEY NO.	MODEL 506 PART NO.	MODELS 507 PART NO.
Door Assembly	1	97007002	97007003
Door Spring	2	99140147	99140147
1/8 x 1 Cotter Pin (2 Req.)*	3	99410005	99410005
Door Arm	4	98006067	98006067
Chain	5	99450101	99450101
Push Nut (2 Req.)	6	99420478	99420478
Outer Housing	7	97007095	97007091
Inner Housing	8	97013673	97010379
#8-18 x 3/8 Serrated Head Tapping Screw w/Type B Point (2 Req.)*	9	99170245	99170245
Switch Trigger	10	99390035	99390035
Receptacle	11	99270982	99270982
Switch	12	99030157	99030157
Wiring Box Cover	13	98007823	98007823
#10-32 x 1/2 Binder Head Tapping Screw w/Type F Point*	14	99150471	99150471
Wiring Box	15	98006046	98006046
Grille Bracket	16	98008494	98007819
Pendant	17	99110563	99110563
Wear Plate	18	98007825	98007825
Grille (Polymeric)	19	99110977	99110916
Motor Nut (2 Req.)	21	99260425	99260428
#8-32 x 1/2 Tapping Screw w/Type 23 Point (2 Req.)*	22	99150479	99150479
1/4-20 U-Type Sheet Metal Nut (2 Req.)*	23	99420479	99420479
Motor Bracket	24	98006066	98007820
Motor	25	99080596	99080176
Fan Blade	26	99020271	99020165
Door Hinge Rod	27	98006073	98006073
#8-15 x 1/4 Serrated Head Tapping Screw w/Type A Point (3 Req.)*	28	99150417	99150417
Grille Knob	29	97011918	97011918
Grille Stud	30	99420580	99420585

* Standard Hardware. May be purchased locally.
Order service parts by "PART NO." - NOT by "KEY NO."