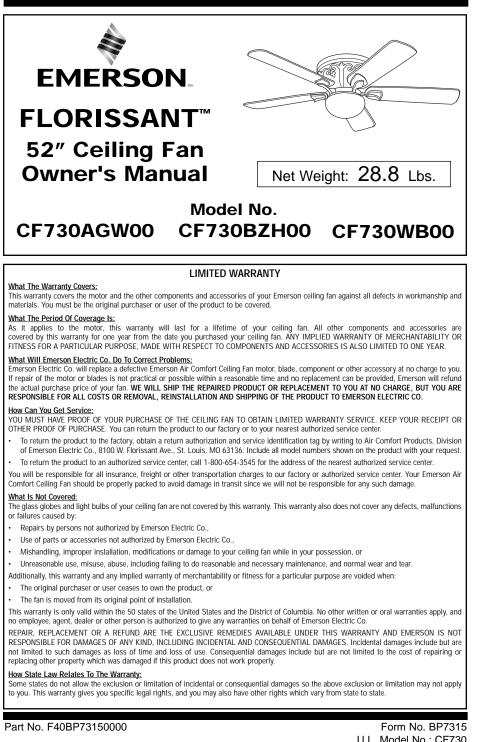
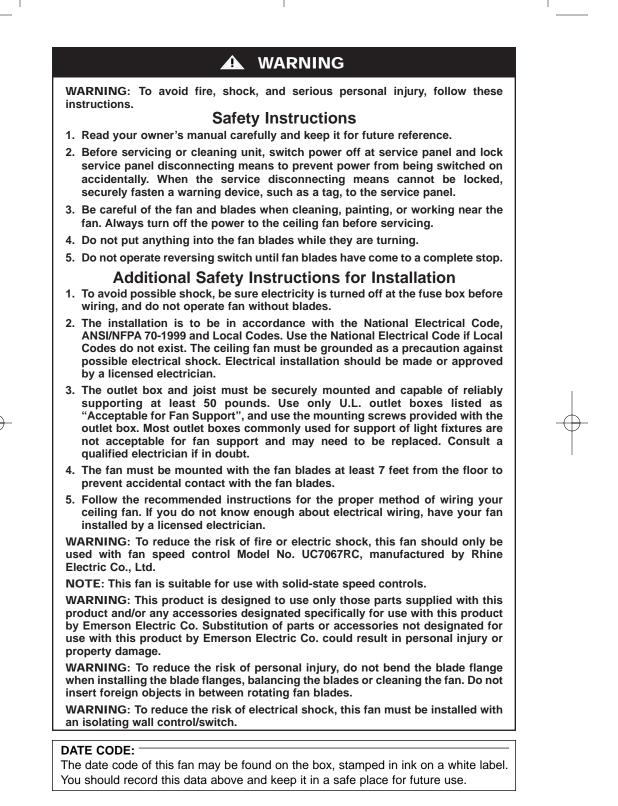
# READ AND SAVE THESE INSTRUCTIONS



U.L. Model No.: CF730



#### This Manual is Designed to Make it as Easy as Possible for You to Assemble, Install, Operate and Maintain Your Ceiling Fan

### **Tools Needed for Assembly**

One Phillips head screwdriver One 1/4" blade screwdriver One 7/16" box or open end wrench or ratchet wrench One wire stripper

One stepladder

Three wire connectors (supplied)

#### Materials

Wiring, outlet box and box connectors must be of type required by the local code. The minimum wire would be a 3-conductor (2-wire with ground) of the following sizes:

Installed Wire Length	Wire Size A.W.G.		
Up to 50 ft.	14		
50-100 ft.	12		

## A WARNING

Before assembling your ceiling fan, refer to section on proper method of wiring your fan (page 5). If you feel you do not have enough wiring knowledge or experience, have your fan installed by a licensed electrician.

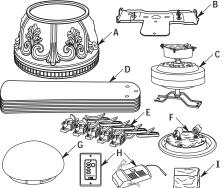
## **Unpacking Instructions**

For your convenience, check-off boxes are provided next to each step. As each step is completed, place a check mark in the box. This will insure that all steps have been completed and will be helpful in finding your place should you be interrupted.



- □ 1. Open styrofoam unit containing fan. Remove top half of styrofoam unit. Remove parts and check to see that you have received the following parts:
  - a. Fan housing
  - b. One mounting plate
  - c. One motor assembly
  - d. Five fan blades
  - e. Five blade flanges with captive screws
  - f. One light fitter assembly
  - g. One lower glass
  - h. One SW101 Fan/Light Wall Control (transmitter and receiver)

- i. One loose pars bag containing:
   1. Sixteen M5 x 6mm washer head screws
  - Five M5 x 12mm pan head screws with lockwashers
  - One M6 x 14mm pan head screw with lockwasher (extra flange-to-motor hub screw/ lockwasher)
  - 4. Four 1/4-20 hex locknuts
  - 5. Four 1/4" flat washers
  - 6. Three wire connectors
  - 7. One receiver bracket
  - 8. One pull chain pendant
  - 9. One coupling



NOTE: If you are uncertain of part description, refer to exploded view.

NOTE: Place the parts from the loose parts bags in a small container to keep them from being lost.

□ 2. Remove the fan assembly from the protective plastic bag. Place the fan assembly into the upper foam pad with the lead wires up.

### **Electrical Requirements**

IMPORTANT: Your ceiling fan will not function properly, and may be damaged, if used with any wall dimmer switch or control other than the Emerson Electric Fan/Light Wall Control supplied with the fan, or an optional Emerson Electric SR100 Remote Control.

Your new ceiling fan will require a grounded electrical supply line of 120 volts AC, 60 Hz, 15 amp circuit.

The outlet box must be securely anchored and capable of withstanding a load of at least 50 pounds.

#### A WARNING

To reduce the risk of fire, electric shock, or personal injury, mount fan to outlet box marked "Acceptable for Fan Support", and use screws supplied with outlet box. Most outlet boxes commonly used for support of light fixtures are not acceptable for fan support and may need to be replaced. Consult a qualified electrician if in doubt.

If your fan is to replace an existing ceiling light fixture, turn electricity off at the main fuse or circuit breaker box at this time and remove the existing light fixture.

#### WARNING

Turning off wall switch is not sufficient. To avoid possible electrical shock, be sure electricity is turned off at the main fuse or circuit breaker box before wiring. All wiring must be in accordance with National and Local codes and the ceiling fan must be properly grounded as a precaution against possible electrical shock.

#### **Ceiling Fan Procedures**

#### General

Your Emerson ceiling fan comes supplied with a Fan/Light Wall Control which consists of a wall control (transmitter) and a remote control receiver mounted under the fan housing. This system allows you to regulate your ceiling fan speed and light intensity.

NOTE: An optional Emerson Electric SR100 Remote Control may also be used to control your ceiling fan.

#### How to Install Your Ceiling Fan

#### 

Turning off wall switch is not sufficient. To avoid possible electrical shock, be sure electricity is turned off at the main fuse or circuit breaker box before wiring. All wiring must be in accordance with National and Local codes and the ceiling fan must be properly grounded as a precaution against possible electrical shock.

IMPORTANT: Before installing your ceiling fan, refer to sections "Setting Operating Frequency of Wall Control and Receiver" and "Installation of Wall Control", page 9. These sections instruct you how to: a) Set the operating frequency of the fan/light wall control and the remote control receiver; and b) Install the fan/light wall control in the wall box. You will then be ready to proceed with the assembly and installation of your ceiling fan, as follows:

□ 1. Remove and retain the pan head screw with lockwasher from the mounting plate (Figure 1). Engage the tab on the end of the receiver bracket (supplied) with the slot in the mounting plate and position the receiver on the plate.

IMPORTANT: The flat side of the receiver must be placed against the mounting plate, and the receiver wires must be to the right of the bracket as shown in Figure 1.

4

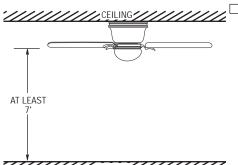
 $\square$  2. Swing the receiver bracket down over  $\square$  3. Pass the outlet box supply wires (black, the receiver (Figure 1). Position the receiver so that the code switch is not covered by the bracket, then securely reinstall the pan head screw with lockwasher (previously removed).

PAN HEAD SCREW 9 MOUNTING WITH LOCKWASHER **PLATE** d۵ CODE RECEIVER SWITCH RECEIVER BRACKET

Figure 1

# WARNING

The fan must be hung with at least 7' of clearance from floor to blades (Figure 2).



FLOOR Figure 2

#### WARNING

The outlet box and joist must be securely mounted and capable of supporting at least 50 lbs. Use only a U.L. outlet box listed as "Acceptable for Fan Support".

## WARNING

To reduce the risk of fire, electric shock, or personal injury, mount fan to outlet box marked "Acceptable for Fan Support", and use screws supplied with outlet box. Most outlet boxes commonly used for support of light fixtures are not acceptable for fan support and may need to be replaced. Consult a qualified electrician if in doubt.

white and ground) through the center hole in the mounting plate and securely attach the mounting plate to the outlet box using the screws supplied with the outlet box (Figure 3).

NOTE: In order for the fan housing to fit flush with the ceiling, the outlet box must not protrude below the ceiling.

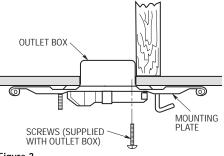
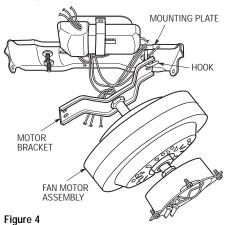


Figure 3

5

□ 4. Carefully lift the fan motor assembly and engage the slot in the motor bracket with the hook on the mounting plate so that it is securely suspended (Figure 4).



If you feel that you do not have enough wiring electrical knowledge or experience, have your fan installed by a licensed electrician.

#### WARNING

Turning off wall switch is not sufficient. To avoid possible electrical shock, be sure electricity is turned off at the main fuse or circuit breaker box before wiring. All wiring must be in accordance with National and Local codes and the ceiling fan must be properly grounded as a precaution against possible electrical shock.

CAUTION: To reduce the risk of electrical shock, disconnect the electrical supply circuit before installing the fan, light kit or receiver.

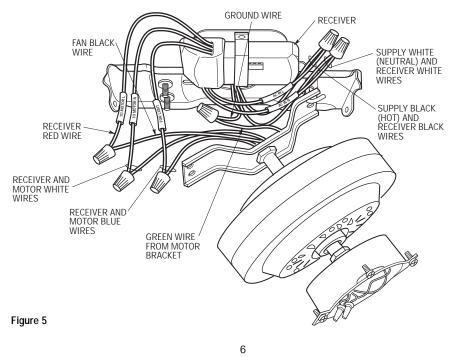
NOTE: Make all wiring connections using wire connectors (supplied). Make sure that all connections are tight, including ground, and that no bare wire is visible at the wire connectors, except for the ground wire.

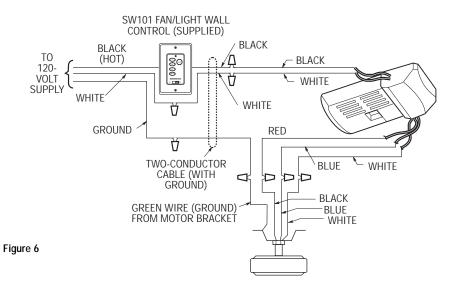
- □ 5. Refer to Figures 5 and 6 and connect the receiver wires to the supply wires and the fan motor wires as follows:
  - a. Securely connect the green grounding wire from the motor bracket to the supply grounding conductor (this may be a bare wire or a wire with green insulation).

- b. Securely connect the supply white (neutral) wire to the receiver white (AC IN N) wire.
- c. Securely connect the supply black wire (hot) wire to the receiver black (AC IN L) wire.
- d. Securely connect the fan motor white wire to the receiver white (TO MOTOR N) wire.
- Securely connect the fan motor black wire to the receiver red (TO MOTOR L) wire.
- f. Securely connect the fan motor blue wire to the receiver blue (FOR LIGHT) wire.

#### 🕰 WARNING

Check to see that all connections are tight, including ground, and that no bare wire is visible at the wire connectors, except for the ground wire. Do not operate fan until blades are in place. Noise and fan damage could result.

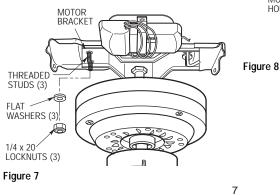




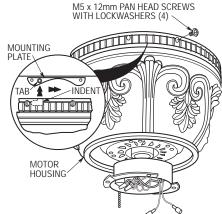
- □ 6. Carefully push the wires and □ connectors up into the outlet box.
- □ 7. Pivot the motor assembly on the hook so that the three threaded studs on the mounting plate protrude through the three holes in the motor bracket (Figure 7).

To avoid possible fire or shock, do not pinch wires between the motor bracket and mounting plate, and be sure no wires or wire connectors are near the top of the motor.

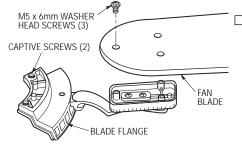
■ 8. Install and securely tighten three 1/4-20 locknuts and flat washers (nuts and washers supplied) onto the threaded studs (Figure 7), then try to shake the motor bracket to ensure that the assembly is tight.



and □9. Align the two indents on the inside of the motor housing with the two tabs on the mounting plate (Figure 8). Turn the housing clockwise to hold the housing on the mounting plate. Secure the housing to the mounting plate by installing four pointed M5 x 12mm pan head screws with lockwashers (supplied).



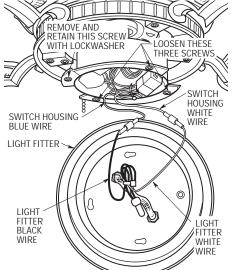
□ 10. Mount one blade flange to a fan blade □ 13. Remove and retain the pan head using three M5 x 6mm washer head screws (supplied) (Figure 9). Repeat this procedure for the four remaining blades.



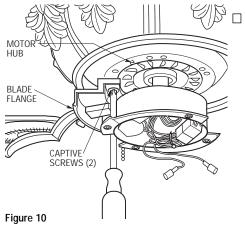


- ☐ 11. Position the blade flange on the motor hub so that the captive screws in the blade flange align with two threaded holes in the motor hub (Figure 10). Loosely tighten the captive screws at this time. Repeat this procedure for the remaining four blade assemblies.
- □ 12. Gently snug all captive screws to the motor hug, working around the hub in a clockwise sequence. Next, securely tighten all captive screws, again working in a clockwise sequence. Failure to follow this procedure could result in fan wobble. This completes the blade installation.

- screw with lockwasher from the recessed portion of the switch housing flange (Figure 11). Loosen the other three pan head screws in the flange two or three turns.
- **14.** Connect the white wire from the light fitter to the white wire from the switch housing (Figure 11). Connect the black wire from the light fitter to the blue wire from the switch housing. Make sure both connectors are securely engaged.



#### Figure 11



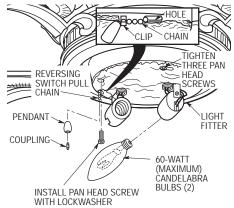
□ 15. Pass the reversing switch pull chain through the hole in the light fitter (Figure 12). Position the three keyhole slots in the light fitter over the three pan head screws in the switch housing flange and turn the light fitter clockwise.

#### WARNING 4

To avoid possible fire or shock, before tightening the screws, make sure that the wires are not pinched between the light fitter and the switch housing flange. Pinched wires will also cause the light fitter to mount crooked on the switch housing.

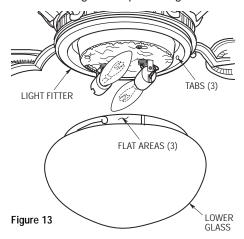
□ **16.** Tighten the three pan head screws (Figure 12). Reinstall the pan head screw with lockwasher (previously removed) in the remaining hole to secure the light fitter. 8

NOTE: Make sure that the lockwashers are positioned between the screw head and the light fitter.



#### Figure 12

- $\Box$  17. Slip the reversing switch chain  $\Box$  2. In the receiver, slide the four switch through the pendant (supplied), then secure the pendant by snapping the coupling onto the end of the chain (Figure 12). Hook the chain in the clip as shown in Figure 12 insert.
- □ 18. Screw in two 60-watt (maximum) candelabra bulbs in the light fitter sockets (Figure 12). Bulbs not supplied.
- □ 19. Place the lower glass into the light fitter, aligning the three flat areas on the lower glass flange with the three tabs on the light fitter (Figure 13). Then turn the lower glass clockwise until the glass stops turning.

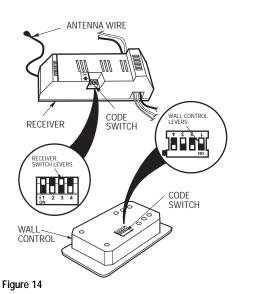


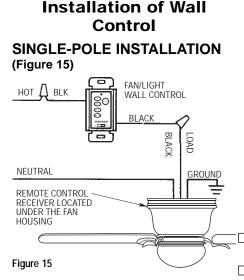
20. Your ceiling fan is now installed and wired to be controlled by your SW101 Fan/Light Wall Control. 9

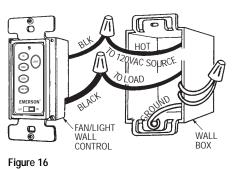
#### Setting Operating Frequency of Wall **Control and Receiver** (Figure 14)

Your wall control and receiver have code switches which must be set in one of 16 possible code combinations. The four levers (numbered 1, 2, 3, and 4) on the switches are factory-set in the ON (up) position. Change the switch settings as follows:

- □1. Slide the four switch levers in the wall control to your choice of ON (up) or down positions. Use a ball-point pen or small screwdriver and slide the levers firmly up or down.
  - levers to the same positions as set in the wall control. Make sure the levers on both switches are in the same positions, otherwise the fan will not operate.







# **3-WAY INSTALLATION**

#### (On fan controlled by two different wall controls) (See Figures 17 and 18.)

- 1. Disconnect power at circuit breaker or remove fuse.
- □1. Disconnect power at circuit breaker or remove fuse.
- □2. Remove faceplate and screws from existing wall control. Pull control out from the wall box. Determine the "hot" wire and the "load" wire and disconnect these wires from control. Do not attempt to disconnect any wires not already connected to existing control.
- **3.** Before installing wall control, place wall control in "OFF" mode by pushing "ON/OFF" switch to the "OFF" position.  $\Box$  3. Before installing wall control, place wall

## WARNING

Do not connect any neutral (white) wire to this control. Incorrect wiring will damage this control.

- □ 4. Connect one black wire of wall control to the "hot" wire. Securely connect wires with wire connectors supplied 4. Install a wall control in the wall box (Figure 16).
- □ 5. Connect one black wire of wall switch to the "load" (black) wire in wall box. Securely connect wires with wire connector supplied.
- □6. Screw wall control into wall box and install decorator style faceplate (included). Leave wall control in "OFF" mode until fan installation is completed.
- □7. Refer to page 4 and complete the ceiling fan installation. 10

- □ 2. At all wall box locations remove faceplates and screws from existing controls. Pull controls out from wall boxes and determine which wall box contains the "hot" lead and which wall box contains the "load" wire. Also, identify traveler wires which are both common to wall boxes. Disconnect wires from existing controls only. Do not attempt to disconnect any wires not already connected to existing controls.
  - control in "OFF" mode by pushing "ON/OFF" switch to the "OFF" position.

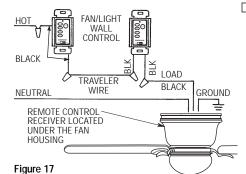
## WARNING

Do not connect any neutral (white) wire to this control. Incorrect wiring will damage this control.

- containing the "hot" wire first. Connect the black wire of the wall control to the "hot" wire. Securely connect wires with wire connectors supplied.
- □ 5. Connect one black wire of the wall control to both remaining traveler wires in the wall box and secure with wire connector supplied.

NOTE: Retrofit 3-way installations are 28. Connect one black wire of the wall likely to include two traveler wires between the two wall boxes. In new construction, only one traveler wire Is 79. Place the second wall control into the required.

#### **3-WAY WIRING DIAGRAM: NEW CONSTRUCTION**

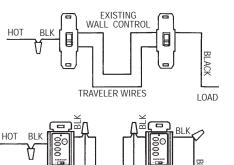


- □ 6. Place wall control into wall box. Screw in place and install decorator style faceplate (included).
- $\Box$  7. Next, install the other wall control into the wall box containing the load wire. Connect the black wire of the wall control to the traveler wire(s) already connected to the black wire (in the other wall box). Secure with wire connectors supplied.

control to the "load" (black) wire and secure with wire connector supplied.

- wall box. Screw in place and install decorator style faceplate (included). Leave switch in "OFF" mode until fan installation is completed.
- $\Box$  **10.** Refer to page 4 and complete the ceiling fan installation.

#### STANDARD WIRING FOR EXISTING **3-WAY CONTROL**





LOAD



11

## Operating Your Ceiling Fan

#### IMPORTANT

Fan installation must be completed, □6. If airflow is desired in the opposite direction, turn the fan off and wait for blades, before testing of the remote control. If airflow is desired in the opposite direction, turn the fan off and wait for the blades to stop turning. Turn the lower glass counterclockwise and

Your Fan/Light Wall Control (Figure 19) has full control of your fan and light. However, airflow direction is controlled by a pull chain on the light fitter switch.

□ 1. Restore electrical power to the outlet box by turning the electricity on at the service panel.

NOTE: Make sure that the ON/OFF slide switch on the Fan/Light Wall Control is in the ON position.

- □ 2. To set the desired fan speed, press the HI, MED, or LOW buttons to operate your fan on high, medium, or low speed (Figure 19).
- □ 3. To turn your fan off, press the OFF button.
- ☐ 4. To set the level of housing light brightness, press and hold the LIGHT button. The light brightness will continue to increase then decrease while the button is held down. When the light is at the desired brightness, release the button.

□ 5. To turn the housing lights on and off, press and release the LIGHT button. The light will turn on at the light level previously set (see step 4).

If airflow is desired in the opposite direction, turn the fan off and wait for the blades to stop turning. Turn the lower glass counterclockwise and remove the glass from the light fitter (Figure 12). Remove the pull chain from the clip on the light fitter and pull on the pendant until the reversing switch clicks. Replace the pull chain in the clip, then replace the lower glass on the light fitter, and turn the glass clockwise until the glass stops turning. Turn the fan on again; the blades will turn in the opposite direction and reverse the airflow.

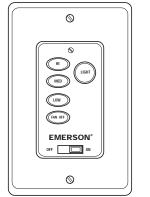


Figure 19

### Maintenance

#### IMPORTANT CARE INSTRUCTIONS for your Ceiling Fan

Periodic cleaning of your new ceiling fan is the only maintenance that is needed.

When cleaning, use only a soft brush or lint free cloth to avoid scratching the finish.

Abrasive cleaning agents are not required and should be avoided to prevent damage to finish.

### WARNING

4

Do not use water when cleaning your ceiling fan. It could damage the motor or the blades and create the possibility of an electrical shock.

#### Accessories

□ **1.** SR100 Remote Control (see store or catalog).

#### 

The use of any other control not specifically approved for this fan could result in fire, shock and personal injury.

#### 

This product is designed to use only those parts supplied with this product and/or any accessories designated specifically for use with this product by Emerson Electric Co. Substitution of parts or accessories not designated for use with this product by Emerson Electric Co. could result in personal injury or property damage.

#### **INSTRUCTION TO THE USER** (if device contains a digital device)

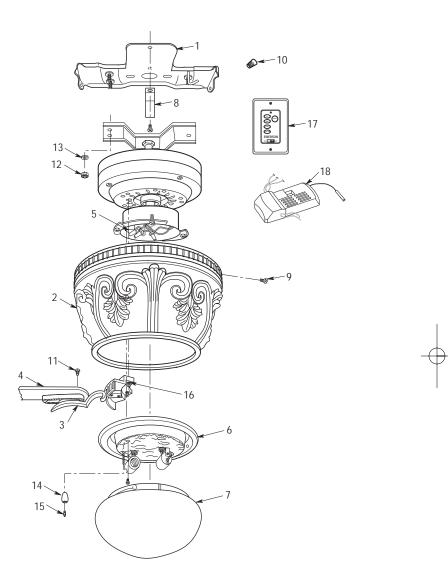
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

## **Repair Parts**



Before discarding packaging material, be certain all parts have been removed.

## HOW TO ORDER REPAIR PARTS

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PART NUMBER
- NAME OF ITEM
- PART DESCRIPTION
- MODEL NUMBER

The model number of your Fan will be found on a label attached to the top housing. For repair parts, phone 1-800-654-3545.

		Part Numbers		
Key No.	Description	Model No. CF730WB00	Model No. CF730BZH00	Model No. CF730AGW00
1	Plate, Mounting	763139	763139	763139
2	Housing, Fan	763126-WB	763126-BZH	763126-AGW
3	Flange Set (full set of one fan)	763127-WB	763127-BZH	763127-AGW
4	Blade Set (full set of one fan)	763132	763132-1	763132-1
5	Harness Assembly, Wiring	763134	763134	763134
6	Fitter Assembly, Light	763136-WB	763136-BZH	763136-AGW
7	Glass, Lower	763144	763144-1	763144-1
*	Parts Bag, Containing:	763135	763135	763135
8	Bracket Assembly, Receiver	_	_	—
9	Screw, Pan Head with Lockwasher,			
	M5 x 12mm (5)	—	—	_
10	Connector, Wire (3)	—	_	_
11	Screw, Washer Head, M5 x 6mm (16)	—	_	_
12	Locknut, 1/4-20 (4)	—	_	_
13	Washer, Flat, 1/4" (4)	_	_	_
14	Pendant, Pull Chain	_	_	_
15	Coupling	_	_	_
16	Screw, Pan Head with Lockwasher,			
	M6 x 14mm (extra flange screw)			
17	Wall Control, Fan/Light	762348-1	762348-1	762348-1
18	Receiver, Remote Control	762670	762670	762670
_	Owner's Manual	BP7315	BP7315	BP7315

# **Repair Parts Listing**

### **WARNING:** FOR YOUR OWN SAFETY TURN OFF POWER AT FUSE BOX OR CIRCUIT BREAKER BEFORE TROUBLE SHOOTING YOUR FAN.

		9
TROUBLE	PROBABLE CAUSE	SUGGESTED REMEDY
1. Fan will not start.	1. Fuse or circuit breaker blown.	<ol> <li>Check main and branch circuit fuses or circuit breakers.</li> <li>WARNING: Make sure main power is turned off.</li> </ol>
	<ol> <li>Loose power line connections to the fan</li> <li>Fan/Light Wall Control is OFF.</li> <li>Code switches in remote control receiver and Fan/Light Wall Control are not set in the same position</li> </ol>	<ol> <li>Check line power connections to fan.</li> <li>Turn ON Fan/Light Wall Control.</li> <li>Check that both code switches are set in the same positions.</li> </ol>
2. Fan sounds noisy.	1. Screws securing fan blade flanges to motor hub are loose.	<ol> <li>Check to make sure the screws which attach the blade flanges to the motor hub are tight.</li> </ol>
	<ol> <li>Screws holding blades to flanges are loose.</li> </ol>	2. Tighten screws securely.
3. Fan wobbles	<ol> <li>Screws securing fan blade flanges to mounting hub are loose.</li> </ol>	<ol> <li>Check to be sure screws which attach the fan blade flanges to the mounting hub are tight.</li> </ol>
	<ol> <li>Fan blade flanges not seated properly.</li> </ol>	<ol> <li>Check to be sure that the fan blade flanges seat firmly and uniformly on the motor hub. If flanges are seated incorrectly, loosen the flange screws and retighten.</li> </ol>
	<ol> <li>Mounting plate and/or ceiling outlet box is not securely fastened.</li> </ol>	<ol> <li>Tighten the mounting plate screws to the outlet box, and/or secure outlet box.</li> </ol>
	4. Fan blades out of balance.	<ol> <li>Interchanging an adjacent (side-by-side) blade pair can redistribute the weight and result in smoother operation. Or use supplied balancing kit to balance blades.</li> </ol>

## Trouble Shooting



Air Comfort Products DIVISION OF EMERSON ELECTRIC CO. 8100 W. Florissant • St. Louis, MO 63136

Part No. F40BP73150000 Printed in China 03/06

Form No. BP7315