

# Galvanized Slant Wall Fans—Belt Drive Instruction Manual

## Model Numbers Covered:

115680, 115229, 115230, 115724



Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the equipment described within this manual. Carefully follow all safety information.

Save this manual for future reference.

For replacement parts, questions regarding the fan or manual, please contact the dealer/distributor where you purchased the fan from.

Model # \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Date: 02/20/17

Form: HV0024 Version 3

# Getting Started



## Tools/Materials Needed:

- Drill/drill bits
- 5/16" nut driver
- Construction screws
- Caulk or sealant

## Contents:

- Galvanized slantwall fan(1)
- Instruction manual(1)

## Inspection:

After unpacking your exhaust fan, carefully inspect for any damage that may have occurred during transit. Inspect for loose, missing or damaged parts. If there is physical damage to any parts of the fan, a freight claim must be filed with the carrier. Check to assure that all bolts, screws and set screws are securely tightened and have not become loose during transit. Retighten as required. Rotate propeller by hand to assure it turns freely.



## General Safety Instructions

**Danger:** Before installing or servicing, always lock out and tag power source. Do not rely on a switch as the only means of disconnecting power. Failure to disconnect power can result in fire, electrical shock or serious injury. Motor will restart without warning after thermal protector trips. Do not touch an operating motor as it may be hot enough to cause injury. Do not place any body parts or objects in fan or drive components while fan is connected to a power source.



## Warning:

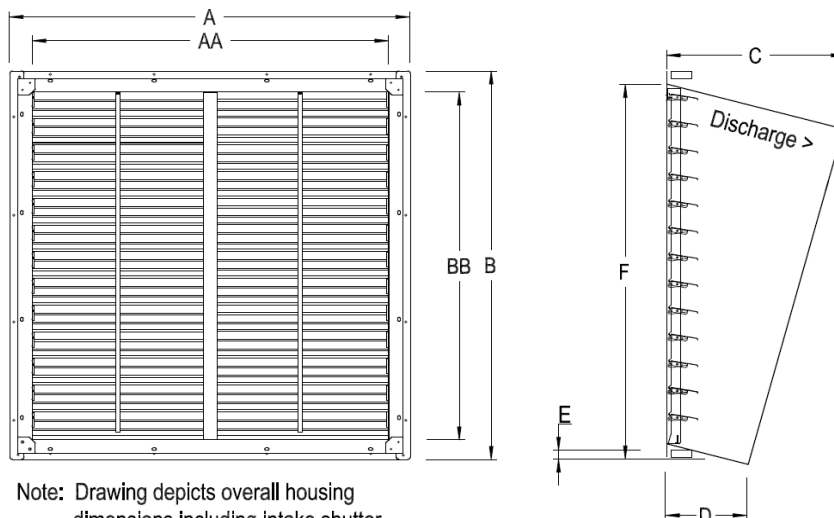
1. Read and follow all instructions, cautions, dangers and warnings. Failure to do so could result in personal injury, death or property damage.
2. Make sure the electrical power source conforms to the requirement of the fan(s) as well as local codes.
3. Electrical connections, installation and maintenance must be done by qualified electrical personnel in accordance with all applicable codes and ordinances.
4. Unit must be adequately grounded.
5. To reduce the risk of fire or electrical shock, do not expose this fan to water.
6. Do not touch electrically live components.
7. Free rotation of the propeller is critical. It must not touch any part of the venturi, framework or drive components.
8. Assure that all power cords do not come in contact with any sharp edges, hot surfaces or chemicals. Immediately replace any damaged cords.



**Caution:** OSHA requires OSHA compliant guards when fan is installed within 7ft of the floor or working level.

## Specifications

Model	Prop Dia.	# Of Wings	Dimension (In.)								Rough-in Opening		Ship Wt	Ship. Dims.
			A (In.)	B (In.)	AA (In.)	BB (In.)	C (In.)	D (In.)	E (In.)	F (In.)	Height	Width		
115724	42"	5	50	51 1/2	46	47 1/2	29 1/4	17 1/2	3	48	49 1/4	47	285	54x34x54
115229	48"	3	56	57 7/8	51 1/2	53 1/4	29 1/4	15 5/8	3	58 1/8	55 1/2	52 7/8	289	60x34x62
115230	48"	3	56	57 7/8	51 1/2	53 1/4	29 1/4	15 5/8	3	58 1/8	55 1/2	52 7/8	289	60x34x62



## Performance

Model	HP	Spd	F.L.A.	Volt.	Ph	Hz	Fan RPM	High CFM				CFM/Watt				Db 0.00" SP
								0.00" SP	0.05" SP	0.10" SP	0.15" SP	0.00" SP	0.05" SP	0.10" SP	0.15" SP	
115724	1	1	8.6/4.3	115/230	1	60	580	16,250	15,410	14,480	13,570	17	15.4	13.9	12.5	74.5
115229	1	1	8.6/4.3	115/230	1	60	625	21,100	20,100	18,900	17,700	20.4	18.9	17.3	15.8	77.2
115230	1	2	7.0/3.5	230	1	60	595	20,780	19,700	18,750	17,400	20.1	18.7	17.1	15.6	77.1

## Fan Installation

For framing dimensions, refer to rough-in opening height and width shown in the specifications above.

Position the fan for desired airflow. Air will discharge on the side of the fan facing the propeller.

Assure the fan is fastened securely in the opening to avoid excess "rattling" or vibration using proper fasteners. Fasteners not included.

Refer to motor nameplate for wiring diagram.



**Caution:** Before operating your new fan, check blade for proper torque, check all fasteners for tightness and assure screens and/or shutters are securely in place.

## Maintenance

Periodic maintenance schedules should be set to assure reliability and performance of the fan. This maintenance should include inspection of all fasteners, propeller torque and proper cleaning of the complete fan assembly.

Check for excessive vibration while fan is running.

Periodically inspect and tighten all set screws and hardware.

Assure all mounting hardware, chains, etc. are properly secured.

Motors feature permanently sealed ball bearings and require no further lubrication.

The fan propeller should be periodically cleaned to assure proper balance and performance.

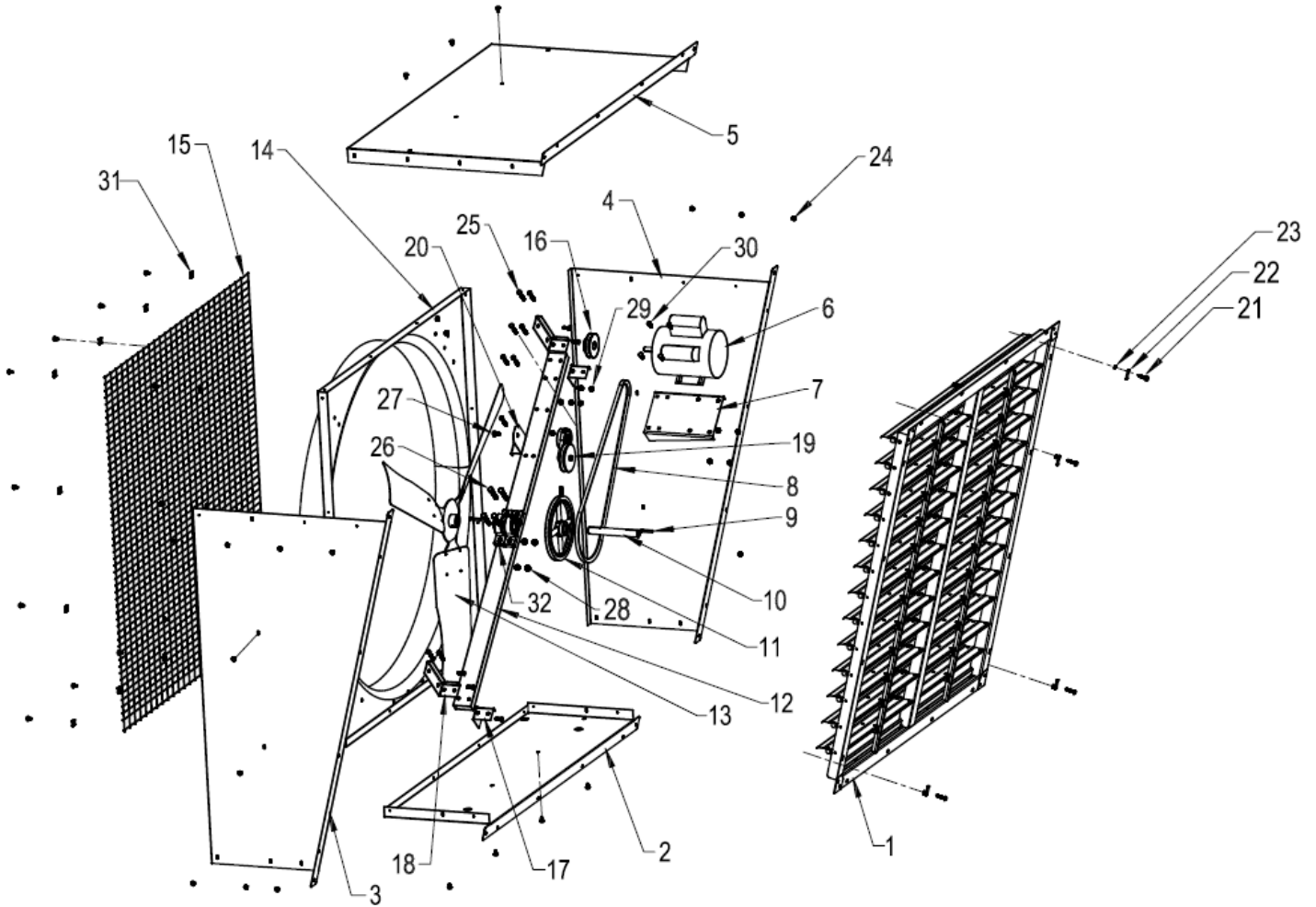
Grease pillow block bearings seasonally. Use caution not to apply too much grease as it may damage the seals.

Periodically check for proper belt alignment.

## Troubleshooting Guide

Symptom	Possible Cause(s)	Corrective Action
Fan will not start	<ol style="list-style-type: none"> <li>1. Tripped circuit breaker</li> <li>2. Defective motor</li> <li>3. Incorrectly wired</li> <li>4. Electricity turned off</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset circuit breaker</li> <li>2. Repair or replace</li> <li>3. Shut off power, check for proper connections</li> <li>4. Contact local power company</li> </ol>
Excessive noise or vibration	<ol style="list-style-type: none"> <li>1. Blade is hitting housing</li> <li>2. Blade is bent</li> <li>3. Fan not securely anchored</li> <li>4. Bad/noisy bearings</li> </ol>	<ol style="list-style-type: none"> <li>1. Free blade of obstruction</li> <li>2. Replace blade</li> <li>3. Secure properly</li> <li>4. Replace motor</li> </ol>
Insufficient airflow	<ol style="list-style-type: none"> <li>1. Incorrect voltage applied</li> <li>2. Defective motor</li> <li>3. Propeller is damaged</li> <li>4. Blocked Airflow</li> <li>5. Not enough intake air</li> <li>6. Fan is dirty</li> </ol>	<ol style="list-style-type: none"> <li>1. Wire properly</li> <li>2. Replace motor</li> <li>3. Replace propeller</li> <li>4. Remove obstructions</li> <li>5. Add additional air intake openings</li> <li>6. Clean fan guards/screens, motor and propeller</li> </ol>
Motor overheats or trips out	<ol style="list-style-type: none"> <li>1. Over/under line voltage</li> <li>2. Defective motor</li> <li>3. Fan is dirty.</li> <li>4. Not enough intake air</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact local power company</li> <li>2. Replace motor</li> <li>3. Clean fan guards/screens, motor and propeller</li> <li>4. Add additional air intake openings</li> </ol>

## Repair Parts Illustration



Ref No	Description	115680	115724	115229	115230	Qty
1	Intake shutter	SA42SW	SA42SW	SA48SW-N	SA48SW-N	1
2	Bottom housing panel	N/A	N/A	N/A	N/A	1
3	Left housing panel	N/A	N/A	N/A	N/A	1
4	Right housing panel	N/A	N/A	N/A	N/A	1
5	Top housing panel	N/A	N/A	N/A	N/A	1
6	Motor	A550-4CE	A750-4CE	A750-4CE	A750-4/6TEAO	1
7	Motor mounting plate	N/A	N/A	N/A	N/A	1
8	V belt, cogged	AX57	AX55	AX61	AX61	1
10	Fan shaft, 1"	FS7.5	FS7.5	FS7.5	FS7.5	1
11	Large drive pulley	AK114	AK104	AL94	AL94	1
12	Horizontal frame piece	N/A	N/A	N/A	N/A	1
13	Propeller	9001398	9001398	9001489	9001576	1
14	Venturi panel	N/A	N/A	N/A	N/A	1
15	Discharge screen	42SCREEN	42SCREEN	48SCREEN-N	48SCREEN-N	1
16	Motor pulley	AK3058	AK3058	AK3458	AK3058	1
17	Horizontal frame bracket, small	N/A	N/A	N/A	N/A	2
18	Horizontal frame bracket, large	N/A	N/A	N/A	N/A	2
19	Belt tensioner	BTI	BTI	BTI	BTI	1
20	Tensioner bracket	N/A	N/A	N/A	N/A	1
32	Bearing	UCP205-16	UCP205-16	UCP205-16	UCP205.16	2