

## "700" SERIES BLOWER INSTALLATION AND MAINTENANCE INSTRUCTIONS

### RECEIVING INSPECTION

Check for damage or missing parts immediately upon receipt. Ensure that wheel rotates freely.

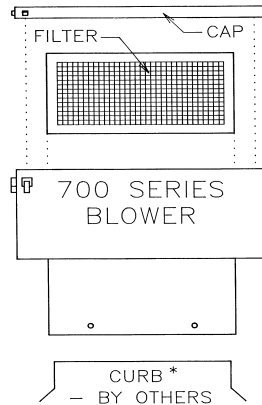
**REPORT ANY DAMAGE PROMPTLY TO CARRIER.**

### INSTALLATION

Caulk top of curb. Place unit on curb and secure through 8 - 5/16" diameter holes located around the bottom of the unit. Tighten all set screws.

### ELECTRICAL

Connect motor in accordance with applicable codes. Provide properly sized motor overload protection to protect against electrical faults and system changes. Confirm proper motor rotation on start-up.



### MOTOR & V-BELT DRIVES

Mount motor with hardware provided and install pulleys and belt(s) with proper tension. Follow illustrated recommendations on belt installation below.

### BELT TENSION & PULLEY ALIGNMENT

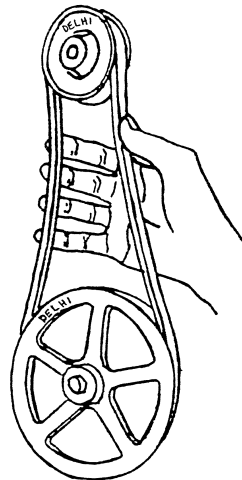
Excessive belt tension is the number 1 cause of blower bearing failure.

Proper belt tension and pulley alignment are essential for trouble free operation.

A simple "Rule of Thumb" for checking belt tension is illustrated.

When the belt is grasped as shown, a total deflection of approximately 1" should be easily attained.

Insufficient deflection indicates that the belt is too tight, resulting in noise from excessive vibration, premature bearing failure, and short belt life. Tight belts may overload a motor that would otherwise be adequate.



Excessive deflection is an indication that the belt is not tight enough. If not corrected, slippage could cause loss of blower speed and belt failure through wear.

A belt should be just tight enough to avoid slippage.

Align pulleys with a straight edge to conserve belt life and eliminate unnecessary noise.

Check tension before start-up, after every pulley adjustment and regularly thereafter.

Set Screws: Ensure all set screws on both pulleys and the blower wheel are tight.

### MAINTENANCE

Inspect periodically for mounting rigidity. Verify belt for wear and tension and adjust as required. Inspect wheel for any dust accumulation and clean as indicated.

**Caution - do not dislodge balancing clips. Check set screw for tightness.**

Inspect filters periodically. Clean and replace as required.

### LUBRICATION

Insert bearings with sealed in lubricant are used on all 700 series models. No further lubrication is required.

**"700" SERIES BLOWER BELT LENGTH SELECTION TABLE**

Blower Model	3-1/4" CAST IRON BLOWER PULLEY - DIA. & RPM RANGE							Belt Length Based on Motor Frame
	5"	6"	7"	8"	9"	10"	12"	
	824-1125 RPM	680-929 RPM	580-792 RPM	505-690 RPM	447-611 RPM	401-548 RPM	533-455 RPM	
709	4L36	4L38	4L40	4L41	4L43	4L44	---	48 FRAME
710	4L38	4L40	4L41	4L43	4L45	4L46	---	
712	4L41	4L43	4L45	4L46	4L48	4L50	---	
715	---	---	---	---	4L54	4L56	4L60	56 FRAME
718	---	---	---	---	4L58	4L59	4L63	

Motor Pulley Cast Iron	Blower Pulley Cast Iron	RPM Range	BLOWER MODEL					Belt Length Based on Motor Frame
			709	710	712	715	718	
1VL44 O.D. 4.15"	HB47T	1630 - 1232	B36	B38	B42	---	---	MODEL 709 TO 712 48 FRAME
	HB57T	1329 - 1005	B38	B40	B43	---	---	
	HB67T	1121 - 848	B39	B42	B45	---	---	
	HB77T	969 - 733	B41	B43	B47	B51	B55	(ADD 1" FOR 56 FRAME)
	HB87T	854 - 645	B42	B45	B48	B53	B56	
	HB97T	763 - 577	B45	B47	B50	B55	B58	
	HB107T	690 - 521	B46	B49	B52	B57	B60	
	HB117T	629 - 476	B48	B50	B54	B58	B62	MODEL 715 & 718 143T, 145T FRAME
	HB127T	578 - 437	B50	B52	B56	B60	B63	
	HB137T	535 - 404	B52	B54	B57	B62	B65	
HB157T	466 - 352	B56	B58	B61	---	B69		
HB187T	390 - 295	B63	B64	B67	---	---	FRAME	
8325 O.D. 3.25"	HB77T	756 - 568	---	---	---	B50	B53	143T, 145T FRAME
	HB87T	667 - 500	---	---	---	B52	B55	
	HB97T	596 - 447	---	---	---	B54	B57	
	HB107T	538 - 404	---	---	---	B55	B59	
	HB117T	491 - 368	---	---	---	B57	B60	
	HB127T	452 - 339	---	---	---	B59	B62	
	HB137T	418 - 314	---	---	---	B61	B64	
	HB157T	364 - 273	---	---	---	---	B68	
HB187T	304 - 228	---	---	---	---	---		
8400 O.D. 4.15"	HB77T	969 - 733	---	---	---	B53	B56	182T, 184T FRAME
	HB87T	854 - 645	---	---	---	B55	B58	
	HB97T	763 - 577	---	---	---	B57	B60	
	HB107T	690 - 521	---	---	---	B58	B61	(DEDUCT 2" FOR 56, 143T & 145T FRAME)
	HB117T	629 - 476	---	---	---	B60	B63	
	HB127T	578 - 437	---	---	---	B62	B65	
	HB137T	535 - 404	---	---	---	B64	B67	
	HB157T	466 - 352	---	---	---	---	B70	
HB187T	390 - 295	---	---	---	---	---		

FOR FRACTIONAL HP APPLICATIONS "4L" BELTS MAY BE SUBSTITUTED BY ADDING 2" TO THE SPECIFIED "B" BELTS. EG. B50 BELT = 4L52.