

**600 AND "BI" 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

Mount blower on solid rigid flat base and secure with suitable fasteners through mounting hole provided in motor enclosure cabinet and support leg. Ensure that all fasteners are tight and secure. Double check wheel set screw for tightness and ensure that wheel rotates freely. Shim as required for a level installation. Vibration pads and flexible connectors to the inlet and outlet are recommended

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

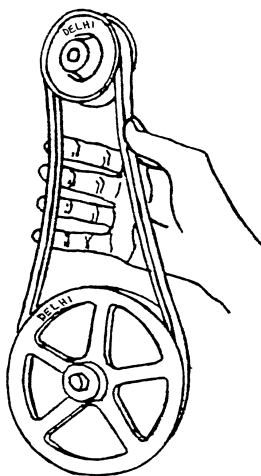
Excessive belt tension is the number 1 cause of blower bearing failure.

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.

ELECTRICAL

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

DISCHARGE POSITION ROTATION

Remove motor enclosure cabinet cover and lay unit down on intake collar (Fig. 1).

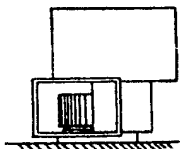


Fig. 1

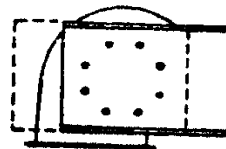


Fig. 2

Remove 8 bolts and rotate motor compartment to desired position (Fig. 2) and replace 8 bolts in new position.

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.

LUBRICATION

Steel pillow block bearings with sealed in lubricant are used on models 610 to 618. No further lubrication is required. Models 620 to 625 and all BI's use cast iron, pillow block, sealed bearings. Re-lubrication is unnecessary under most operating conditions. If re-lubrication is required, lubricant should be compatible to Esso Beacon #325.

DELHI INDUSTRIES INC., 523 JAMES ST., DELHI, ONTARIO, CANADA N4B 2Z3 PH:(519)582-2440 FX:(519)582-0581

600 AND "BI" 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"	
610	4L31	4L33	4L35	4L37	4L37	---	---	48 FRAME
612	4L31	4L33	4L35	4L37	4L37	---	---	
615	4L35	4L37	4L39	4L41	4L43	4L45	4L50	56 FRAME
618	4L35	4L37	4L39	4L41	4L43	4L45	4L50	

Motor Pulley Cast Iron	Blower Pulley Cast Iron	RPM Range	610-612					615-618		620,622,625		Belt Length Based on Motor Frame
			BI-10	BI-12, BI-13, BI-15	BI-16, BI-18	BI-20, BI-22	BI-24, BI-27	BI-10	BI-12, BI-13, BI-15	BI-16, BI-18	BI-20, BI-22	
8325 O.D. 3.25"	HB47T	1272 - 955	---	B32	B35	B44	B53	56, 143T & 145T FRAME				
	HB57T	1037-778	---	B34	B36	B45	B55					
	HB67T	875 - 657	---	B36	B38	B47	B57					
	HB77T	756 - 568	---	B38	B40	B49	B59					
	HB87T	667 - 500	---	B40	B42	B51	B60					
	HB97T	596 - 447	---	B44	B44	B52	B62					
	HB107T	538 - 404	---	B44	B46	B54	B64					
	HB117T	491 - 368	---	B46	B48	B56	B66					
	HB127T	452 - 339	---	B48	B50	B59	B68					
	HB137T	418 - 314	---	B51	B53	B61	B70					
IVL44 O.D. 4.15" 8400 O.D. 4.15"	HB47T	1630 - 1232	B30	B32	B36	B44	---	MODELS 610 - 612 48 FRAME (DEDUCT 1" FOR 56 FRAME) BALANCE 182T, 184T (ADD 2" FOR 56, 143T & 145T FRAME)				
	HB57T	1329 - 1005	B31	B34	B38	B45	B55					
	HB67T	1121 - 848	B33	B36	B39	B47	B57					
	HB77T	969 - 733	B35	B37	B41	B49	B58					
	HB87T	854 - 645	B37	B39	B43	B51	B60					
	HB97T	763 - 577	B39	B41	B45	B53	B62					
	HB107T	690 - 521	B41	B43	B47	B54	B64					
	HB117T	629 - 476	B43	B46	B49	B56	B66					
	HB127T	578 - 437	B46	B48	B51	B58	B68					
	HB137T	535 - 404	B48	B50	B54	B61	B70					
8550 O.D. 5.35	HB57T	1717 - 1394	---	B36	B39	B47	B57	182T, 184T FRAME (ADD 2" FOR 56, 143T & 145T FRAME)				
	HB67T	1449 - 1176	---	B37	B41	B49	B58					
	HB77T	1253 - 1017	---	B39	B43	B51	B60					
	HB87T	1104 - 896	---	B41	B45	B52	B62					
	HB97T	1005 - 815	---	B43	B46	B54	B64					
	HB107T	907 - 750	---	B45	B48	B56	B65					
	HB117T	828 - 686	---	B47	B50	B58	B67					
	HB127T	756 - 618	---	B49	B52	B60	B69					
	HB137T	697 - 575	---	B51	B55	B62	B71					
	HB157T	616 - 509	---	---	---	B66	B75					
D8600 O.D. 6"	DOUBLE GROOVE		---	---	---	---	---	213T, 215 T FRAME				
	6.4 X 2B	1613 - 1340	---	(2) B37	(2) B41	(2) B49	(2) B58					
	7.4 X 2B	1395 - 1159	---	(2) B39	(2) B42	(2) B50	(2) B60					
	8.6 X 2B	1229 - 1021	---	(2) B41	(2) B45	(2) B52	(2) B62					
	9.4 X 2B	1115 - 930	---	(2) B42	(2) B46	(2) B54	(2) B63					
	11.0 X 2B	939 - 780	---	(2) B45	(2) B49	(2) B57	(2) B66					
	12.4 X 2B	830 - 700	---	(2) B48	(2) B52	(2) B59	(2) B69					
	13.6 X 2B	759 - 631	---	(2) B51	(2) B55	(2) B62	(2) B71					
	15.4 X 2B	682 - 574	---	---	---	(2) B66	(2) B74					
	18.4 X 2B	569 - 486	---	---	---	(2) B72	(2) B81					
2LVP48B60A O.D. 6.5"	6.4 X 2B	1586 - 1313	---	---	---	---	(2) BX57	254T FRAME				
	7.4 X 2B	1371 - 1135	---	---	---	---	(2) BX58					
	8.6 X 2B	1209 - 1000	---	---	---	---	(2) BX60					
	9.4 X 2B	1077 - 892	---	---	---	---	---					
	11.0 X 2B	924 - 764	---	---	---	---	---					
	12.4 X 2B	817 - 678	---	---	---	---	---					
	13.6 X 2B	745 - 618	---	---	---	---	---					
	15.4 X 2B	657 - 545	---	---	---	---	---					

NOTE: BX BELTS ARE NOT AVAILABLE FROM DELHI INDUSTRIES

Motor Pulley Cast Iron	Blower Pulley Cast Iron	RPM Range	SPEED-UP DRIVES				Belt Length Based on Motor Frame
			BI-10	BI-12	BI-16, BI-18	BI-20, BI-22	
8670 O.D. 6.7"	HB37T	3397 - 2779	B31	B36	---	---	56 143T, 145T FRAME
	HB47T	2625 - 2148	B32	B38	B41	---	
	HB57T	2139 - 1750	B34	B39	B43	B51	
	HB67T	1805 - 1477	B35	B41	B44	B52	
D8670 O.D. 6.75"	4.4 X 2B*	2625 - 2148	---	---	---	(2) B47	213T, 215T FRAME
	5.4 X 2B*	2139 - 1750	---	---	(2) B40	(2) B48	
	6.4 X 2B	1805 - 1477	---	---	---	(2) B50	

* NOTE: THESE BLOWER PULLEYS ARE NOT AVAILABLE FROM DELHI INDUSTRIES

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