



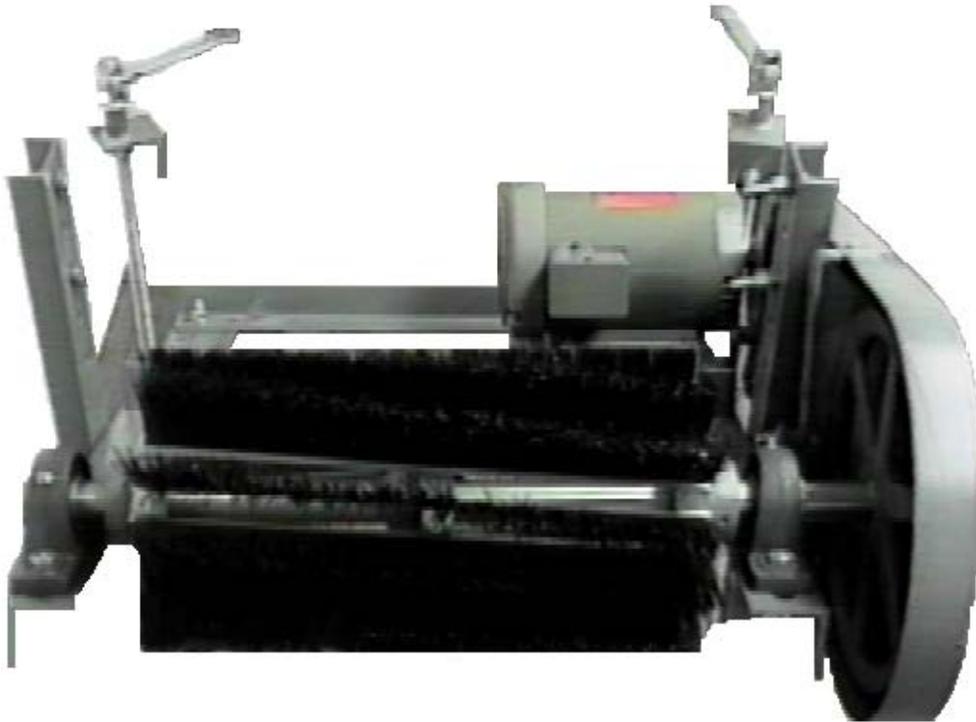
CONVEYOR COMPONENTS COMPANY

130 Seltzer Road, PO Box 167 • Croswell, MI 48422 USA

PHONE: (810) 679-4211 • TOLL FREE (800) 233-3233 • FAX: (810) 679-4510

Email: info@conveyorcomponents.com • <http://www.conveyorcomponents.com>

MODEL BR INSTALLATION INSTRUCTIONS



CAUTION:

Before installing or adjusting, shut down and physically lockout the conveyor system.

When replacing brush strips, do not over-tighten BR-22 clip assemblies on the bristle strips. Recommended torque setting range is 5 ft-lbs minimum, 10 ft-lbs maximum.

As an added safety measure, before installation, please verify that all bristle clip assemblies are properly tightened and have not come loose in transit.

A. PARTS CHECK LIST

List of Materials as Shown in Figure 1.

1. Brush Assembly (99 or HS)
2. Electric Motor (shown with smallest pulley)
3. 2 Pillow Block Bearings
4. Brush Shaft
5. Belt Guard & Support Brackets
6. H-Frame & Motor Mount
7. V-Belt & Pulley Assortment

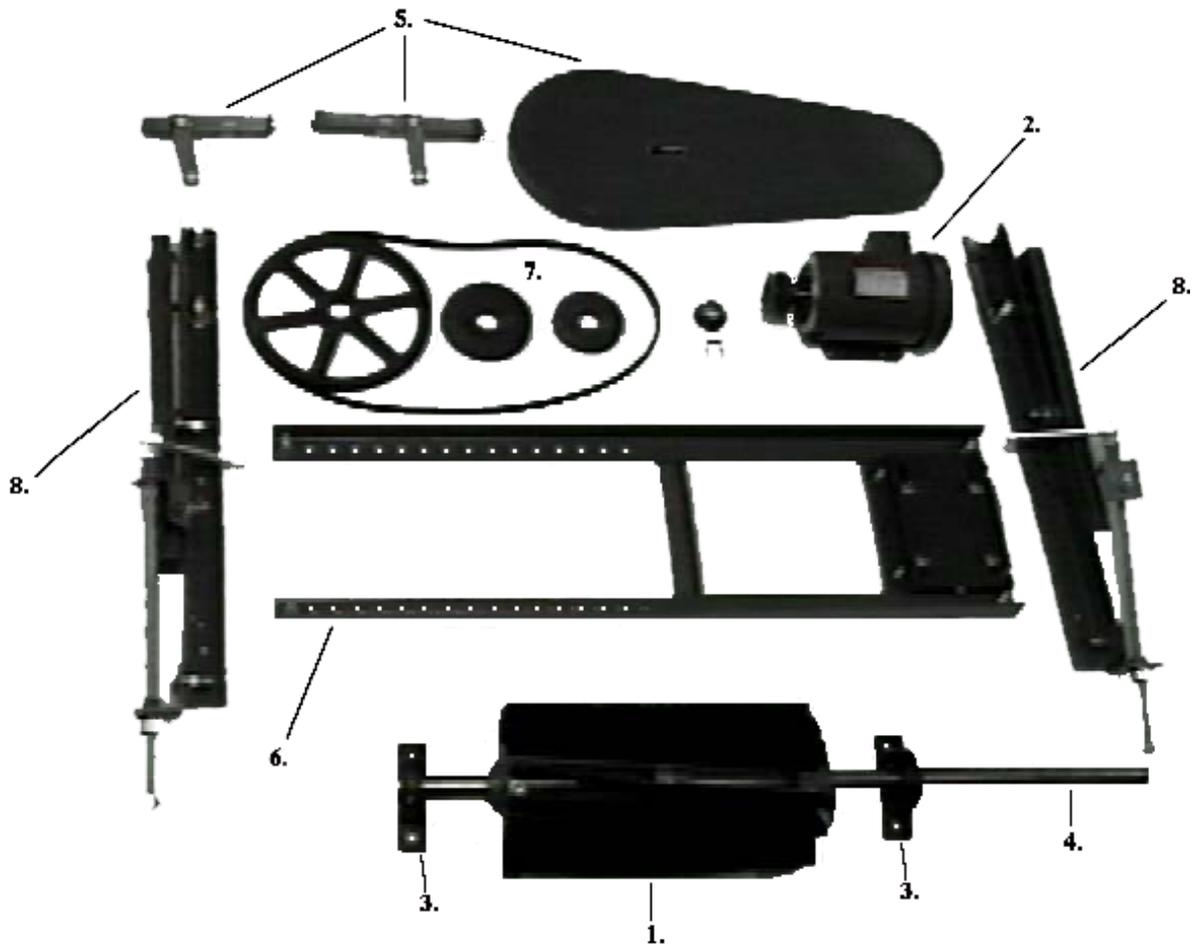


Figure 1: Parts

B. RECOMMENDED LIST OF TOOLS

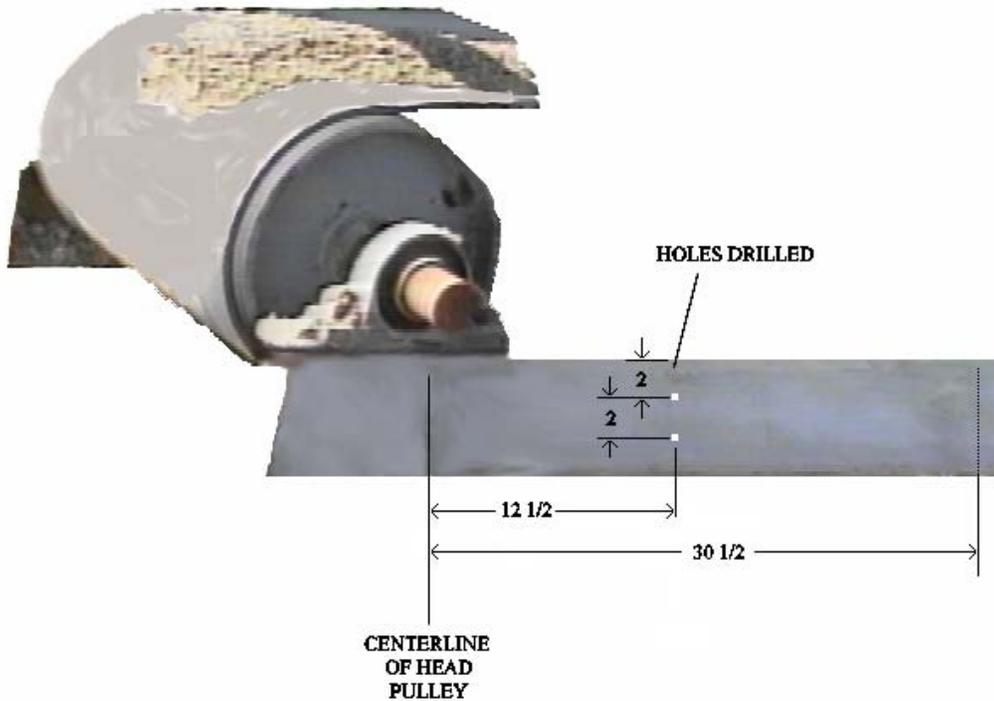
1. Adjustable wrenches
2. 7/16", 1/2", 9/16", 3/4" and 7/8" wrenches
3. 9/16" & 11/16" drill bits
4. Electric drill
5. Hammer
6. Hacksaw
7. Tape measure

C. INSTALLATION INSTRUCTIONS

STEP 1:

1. The BR instructions illustrate the BR mounted on the left side of the conveyor. The BR can be mounted on the right side or left side depending on room availability. Right side mounting would require flipping the H-Frame and brush assembly 180° degrees. This would allow the electric motor and brush pulley assembly to be on the right side of the conveyor.
2. Holes that need to be drilled will require a 9/16" drill bit.
3. Locate centerline of head pulley on conveyor if possible.
4. From centerline measure 12-1/2" inches horizontally and scribe a line vertically. Drill a hole 2" inches from the top of conveyor frame.
5. From center of drilled hole, drill another hole 2" inches below on scribed line.
6. Mount hanger assembly as shown in Figure 3.
7. Measure 30-1/2" inches from centerline of head pulley and mark a line vertically.
8. Drill one hole on the vertical line with a minimum of 10 inches of clearance between the side angle that holds the hanger assembly together and the lower surface of the conveyor frame at the ratchet adjustment. This will allow enough clearance to mount the electric motor.
9. Fasten Ratchet adjustment assembly to conveyor shown in Figure 3.
10. Figure 2. shows the left hand side of the conveyor.
11. Repeat steps 3 through 8 for right side.

Figure 2: Left Hand Side Shown



STEP 2: Steps 2-5 refer to figure 3.

1. Brush speed should be twice the belt speed. Multiple pulleys are furnished to adjust the speed of belt cleaner.

BRUSH SPEED CHART: (Conversion to feet per minute)

RPM	278	427	547
FPM	728	1117	1433
DIA	3"	4 1/2"	6"

*FPM speeds are surface speeds of 10" brush for RPM indicated.

2. Fasten desired pulley to electric motor.

3. Mount electric motor to motor mount but do not tighten nuts down.
4. Fasten H-Frame to side frames using the bolts supplied as shown in Figure 3.
5. The side frames can be adjusted by using washers for spacing to allow the H-Frame bolt holes to align properly.
6. Tighten bolts securing H-Frame to side frames.
7. Cut-off excess H-Frame material.

STEP 3

1. Slide brush shaft through brush assembly, leaving a 3 inch overhang on the key way side. Do not tighten set screws. Then slide on the pillow block bearings to each side of the brush shaft.
2. Fasten sleeve to largest pulley. On the keyway, side-mount the pulley flush with end of shaft.
3. Fasten pillow block bearings to hanger bar assembly shown in Figure 3.
4. The brush bristles should cover the complete conveyor belt.
5. Once the brush covers the complete belt then tighten down the set screws in the brush hubs and in the pillow block bearings.
6. Cut off the excess brush shaft.

STEP 4

1. Slide on V-Belt as shown in figure 3.
2. Tighten motor mount tensioning adjustment until slack is taken up.
3. Tighten motor mount nuts once belt is fully adjusted.

STEP 5

1. Fasten belt guard brackets shown in Figure 3.
2. Assemble belt guard shown on cover page.

STEP 6

1. Wire up electric motor so it rotates in the opposite direction of the belt travel. The electric motor should stop and start with the conveyor.
2. Adjust brush so that it just touches conveyor belt.
3. Now the Model BR is ready to go!

Figure 3:

