

USE
OF
THE

BAND SAW

**WALKER-TURNER
TEACHING AIDS**

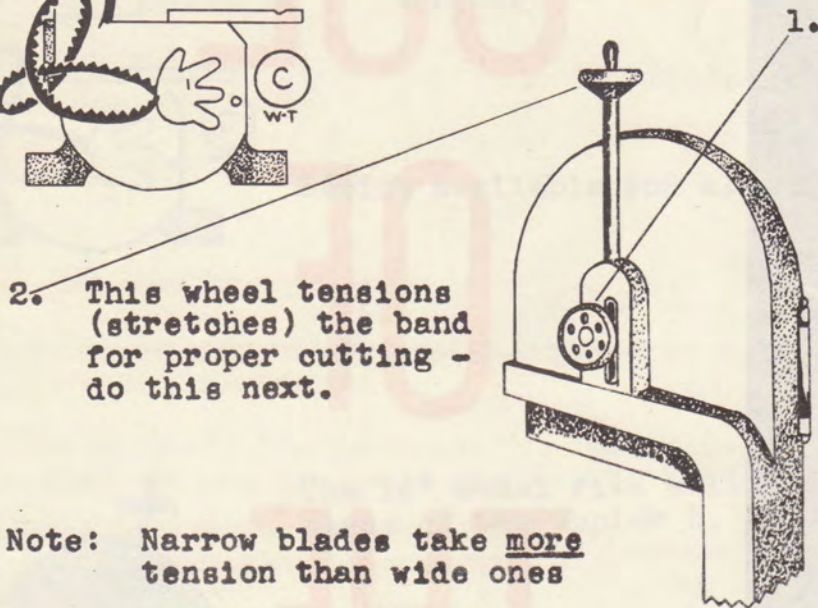
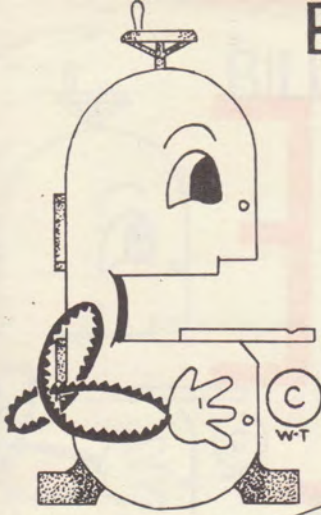
EDUCATION DEPARTMENT

WALKER-TURNER
• DIVISION •
KEARNEY AND TRECKER CORPORATION
PLAINFIELD, N. J.

BAND SAW

Billy Band Saw Says:

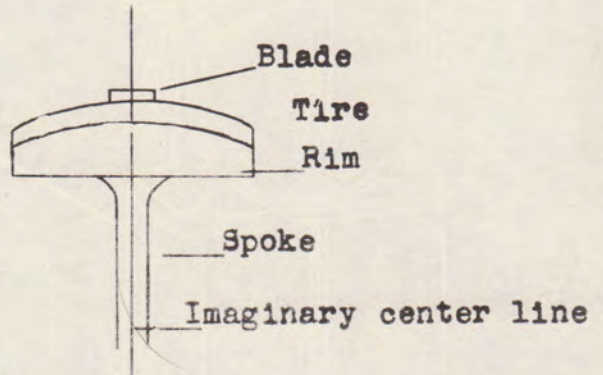
"To adjust a band saw properly - - - follow these steps with power off, take no chances."



1. Use this handwheel to keep the blade on the center of the track - do this first.

2. This wheel tensions (stretches) the band for proper cutting - do this next.

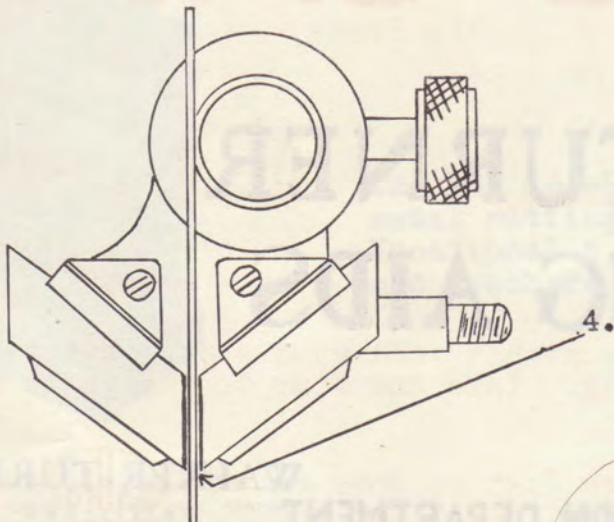
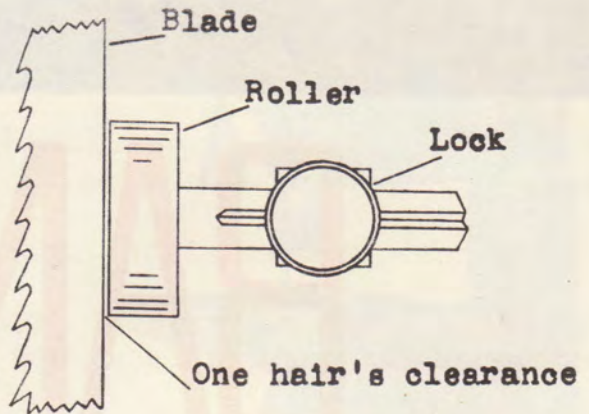
Note: Narrow blades take more tension than wide ones



Note: A little turn moves blade a lot - take it easy

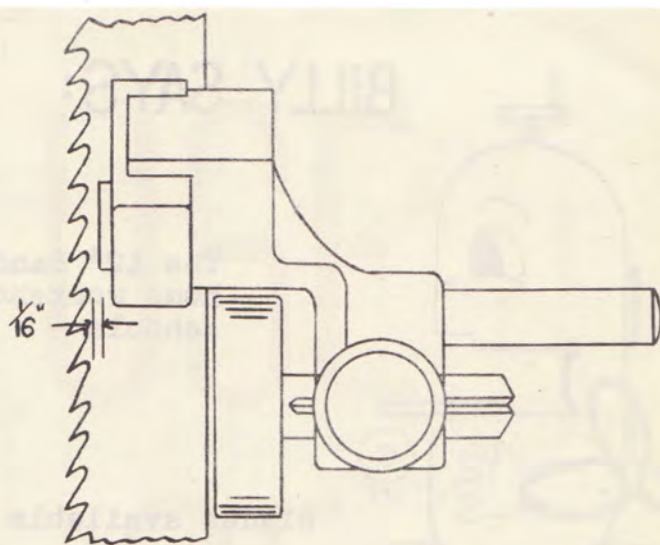
3. Then adjust the roller guide to a hair's breadth (.003 of an inch) behind blade. Do this to both upper and lower guides.

Note: The rollers should bear against blade only when the blade is actually cutting material



4. Adjust side guides close to saw blade, leaving just a little clearance each side. Try a cigarette paper folded around the blade for this.

Note: Keep guides back of the teeth as shown

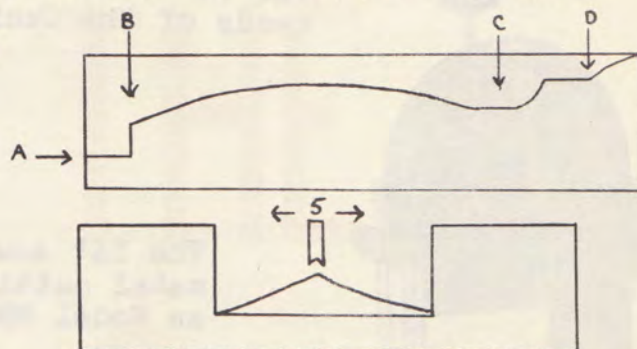
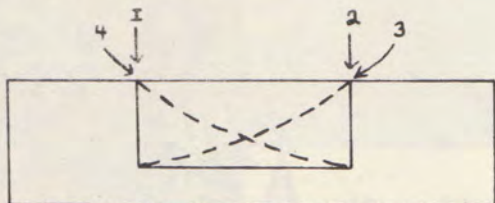


- Recheck steps 1 to 4, close doors on saw, remove tools and then try a short run under power.

TO CUT WITH BAND SAW

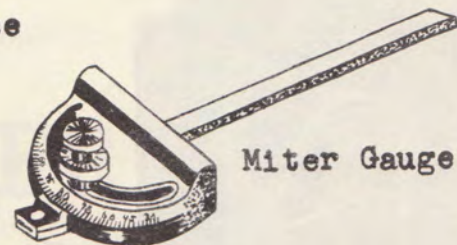
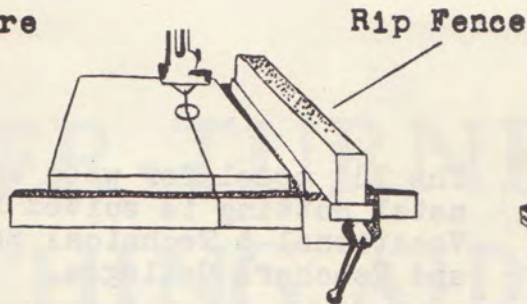
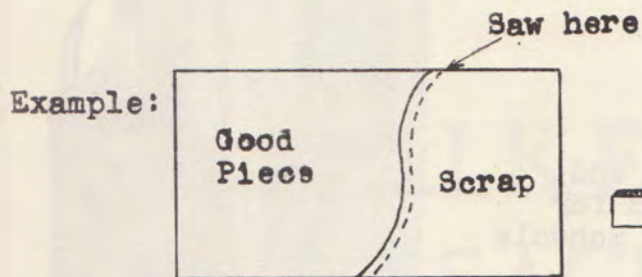
- Drop upper guide assembly (whole unit) to about 1/2 inch over thickness of material.
- Plan your cutting so blade can be released without backing off blade around curves. Note: The blade won't be pulled off of the track if you do this.

Example: A straight cut at A-B-C-D will release blade 4 times on a long cut with no backing off.



Example: Notches cut be cut safely this way. Let saw nibble off the peak.

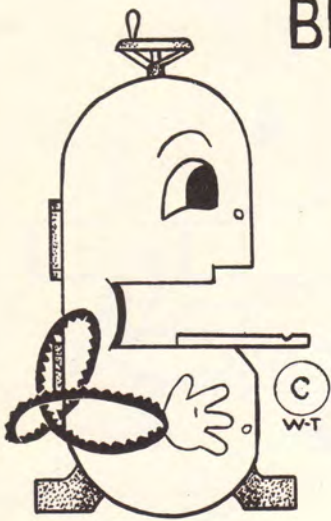
- If you want to make slant cuts, tilt the table to the angle you need.
- The miter gauge and ripping fence will help you cut straight. For the most work on a band saw, it's a good idea to learn to follow a little outside the layout line free hand.



Selecting (choosing) the right blade counts much toward good work. Twisting a wide blade around short curves ruins a blade. Take the time to change to a narrow one.

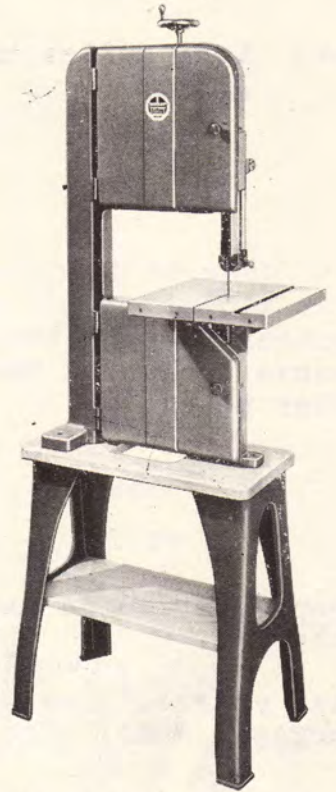
A fine toothed blade often plugs up with saw dust on some material. If you are cutting resinous wood; aluminum or brass, use coarse toothed blades or better, skip tooth blades.

BILLY SAYS:



The 12" Band Saw is great for home workshop and elementary schools

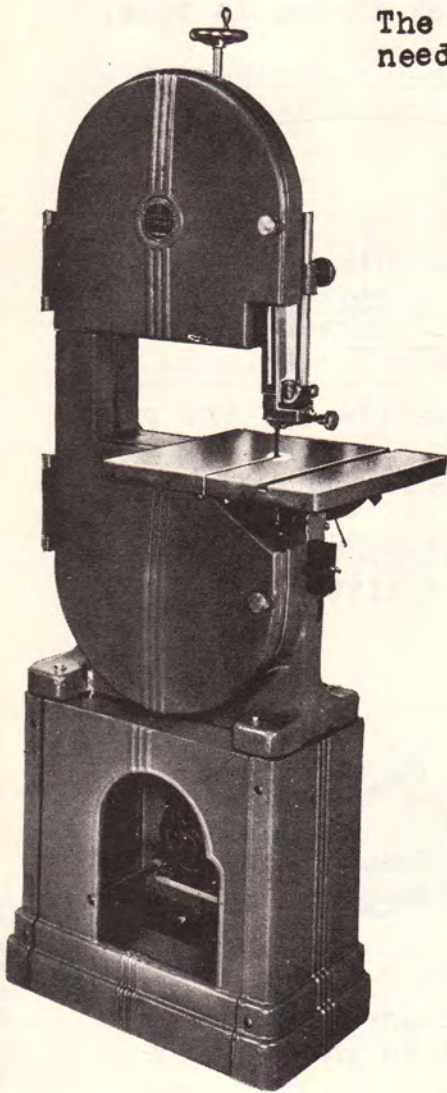
Blades available for all models



BW740 Band Saw shown mounted on IJ110 X Stand,

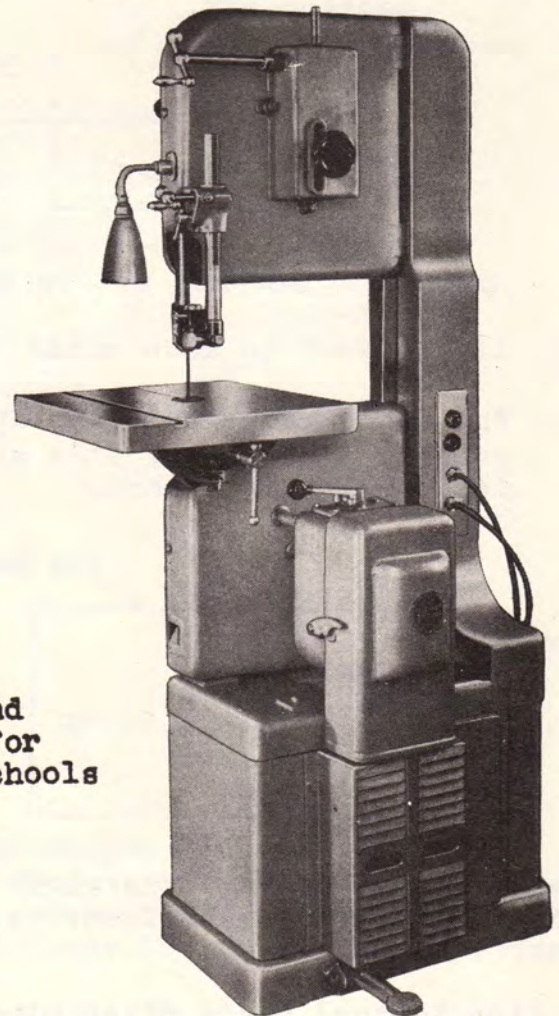
The 14" model fits well the needs of the Junior H. S.

The 14" saw equipped for metal cutting is available as Model MBN 935



BN905 14" Wood-working Band Saw, as shown including Belt and Motor Pulley, less Belt Guard, Motor Switch, Base and Motor.....

The 16" model for wood and metal cutting is suited for Vocational & Technical Schools and Teachers Colleges.



MCB1160 16" Metal-cutting Band Saw, as shown including 1/2"-18 tooth metal-cutting blade, Belt, Motor Pulley, Light, Carriage Bar, Motor Switch, Belt Guard and Base, less motor.