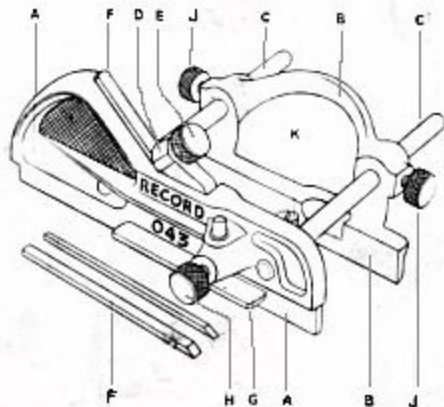
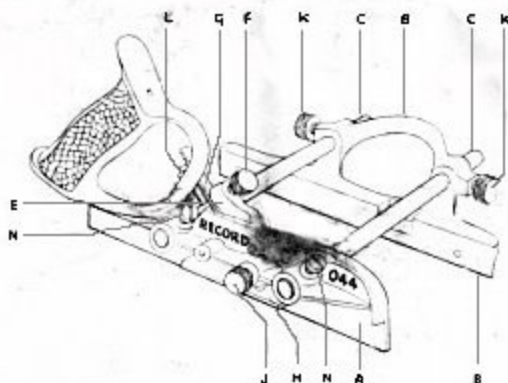




RECORD 043 PLOUGH PLANE

- | | |
|--------------------------|------------------------------------|
| A Body | G Depth Gauge |
| B Fence | H Depth Gauge Knurled Screw |
| C Fence Arms | J Fence Knurled Screw |
| D Lever Cap | K Fence Arm Setscrew |
| E Lever Cap Screw | |
| F Cutters | |



RECORD 044 PLOUGH PLANE

- | | |
|----------------------------------|--|
| A Body | J Depth Gauge |
| B Fence | K Fence Knurled Screw |
| C Fence Arms | L Cutter Adjusting Screw |
| E Lever Cap | M Cutter Clamping Screw (not shown) |
| F Lever Cap Knurled Screw | N Fence Set Screw |
| G Cutter | |
| H Depth Gauge | |

CARE IN USE

The Record 043 is a quality small plough Plane for making grooves to accept plywood and hardboard, and rebates for glass and other panels. The Record 044 is the accepted standard Plough having greater capacity than the 043 together with several additional features. Both are made of high grade cast iron, *plated* all over and fitted with *tungsten steel* Cutters. They are fitted with an adjustable Depth Gauge and double arm bridged Fence. Three Cutters are supplied with the Record 043 in widths 1/8" (3mm), 3/16" (5mm) and 1/4" (7mm), but 4mm and 6mm can be supplied as extras to cover the range of thinner plywoods. Grooves can be cut up to a depth of 1/2" and up to 4" from the edge of the work.

The Record 044 will cut eight sizes of groove from 1/8" (3mm) to 9/16" (15mm) in width and to a depth of 5/8" (16mm) at any distance from the edge of the work up to 5" (127mm). Additional Cutters of 4, 6, 9 and 12mm are also available. The Cutter has Screw adjustment which ensures accurate and easy control, whilst the clamping Screw prevents lateral movement.

The narrow Fence face on both Planes permits grooves to be cut in narrow boards when held in a Vice. A parallel hardwood Fence can be screwed on to provide a greater depth when required.

TO ASSEMBLE THE PLANES

Place the Fence Arms in position in the holes in the Plane Body, tighten the Fence Set Screws to hold the Arms securely in place. The Arms can be placed in any position in the body half way through will be the most suitable particularly for holding the Plane, except when the Fence is needed at the limit of its capacity. Slide the Fence on to the Fence Arms where it can be secured in any position by tightening down on the Knurled Screws.

SETTING UP THE PLANE FOR USE

To set the Cutter on the Record 043, slacken off the Lever Cap Screw and slide the Cutter forward so that it projects a fraction below the runner of the Body, then retighten the Screw. To adjust the Cutter of the 044, slacken off the Lever Cap Screw and the Cutter Clamping Screw and use the Cutter Adjusting Screw to move the Cutter forward or back to give the required cut. Tighten up on both Screws when the Cutter is set. For cutting grooves, slacken off the Fence Knurled Screws and slide the Fence along the Arms, using a rule to set the required distance between the Fence and the inside of the Cutter (Diagram A). When rebating, slide the Fence up to the Body runner, set the exact Cutter width with the rule and secure the Fence with the Knurled Screws (Diagram B). To control the depth of groove or rebate set the Depth Gauge by using the rule (Diagram C).

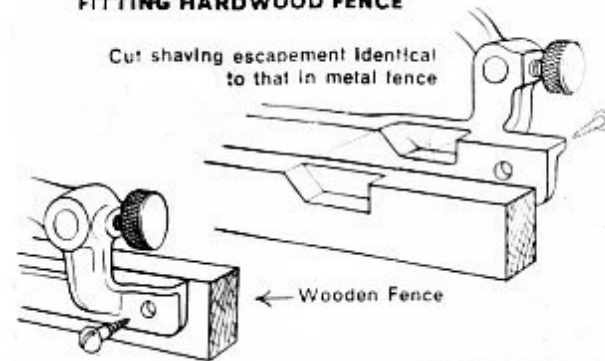
In use always keep the Fence firmly against the face side or face edge of the wood. Keep the Plane upright and see that the Cutter is removing thin shavings. A little paraffin wax applied to the Fence will make for easy working. Grooves should be started at the end of the wood furthest away from the worker, gradually working backwards as the cutting proceeds.

End grain as well as long grain may be cut. The Fence may be set either side of the Body making the Plane both left and right hand.

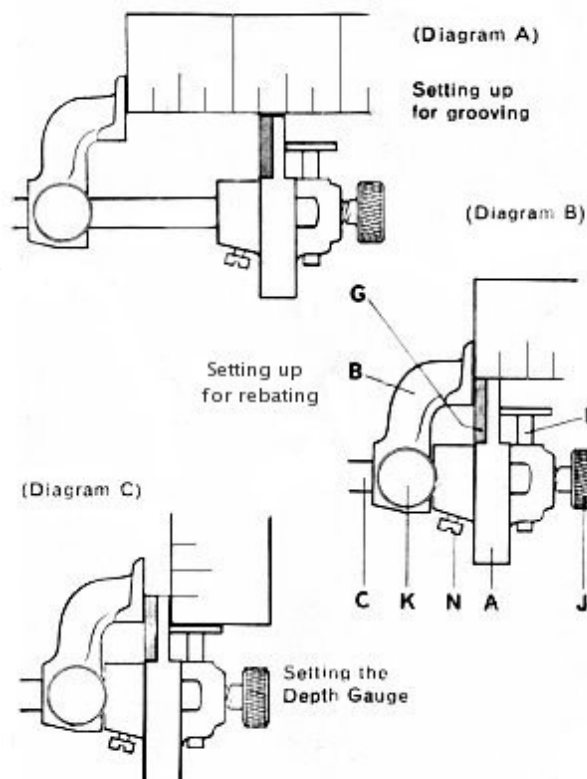
CARE IN USE

The Body is of cast iron – be careful not to drop it – make sure that the Fence Arm Set Screws and the knurled Screws are tight before use otherwise the Plane will be subjected to undue strain and inaccuracies in working may result. The Plane will require very little maintenance, other than an occasional spot of light machine oil on the Screw Threads.

FITTING HARDWOOD FENCE



SETTING THE FENCE AND DEPTH GAUGE



SHARPENING THE CUTTER

The Cutters have been accurately ground in the Works to an angle of 35°. Before the Plane can be used, the Cutter must be sharpened. Use a good quality flat oilstone lightly smeared with thin machine oil.

Place the Cutter so that the ground bevel rests firmly on the surface of the oilstone and move it forward and back along the full length of the stone, taking care to keep the Cutter angle constant.

This is the most difficult part of the operation and calls for some skill in keeping the angle constant. However, by using a Record Edge Tool Honer the job becomes an easy one, since the Honer maintains the cutter at the correct angle. Operating on a stainless steel ball, the Honer allows freedom to distribute wear over the entire oilstone surface.

When a wire edge appears on the reverse side of the Cutter, and extends along the full width of the cutting edge, the Cutter should be laid flat on the oilstone, bevel side uppermost, when a few strokes forward and back will remove it. Great care should be taken to ensure the back of the Cutter lies flat on the oilstone, any lift will round the back and render it useless.

The Cutter will now be sharp and ready for use.

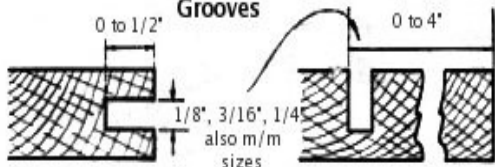
N.B. It is recommended that these cutters be sharpened on the ground bevel.

SOME EXAMPLES OF THE TYPE OF WORK POSSIBLE WITH RECORD PLOUGH PLANES

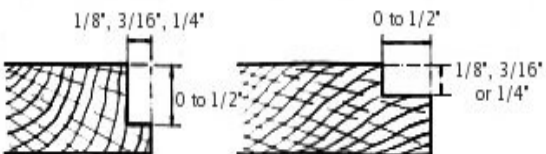
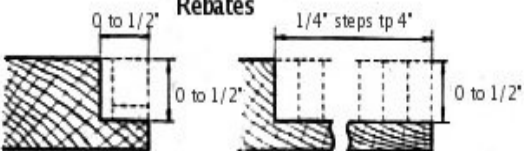
Right: With No. 044 Plane

Below: With No. 043 Plane

Grooves

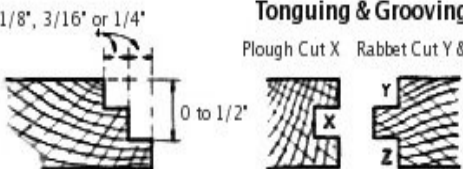


Rebates

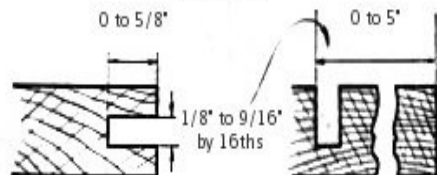


Tonguing & Grooving

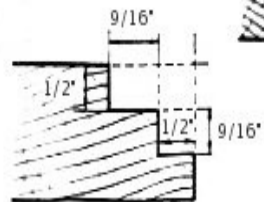
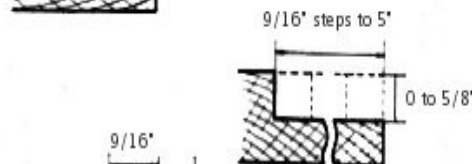
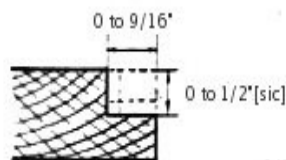
Plough Cut X Rabbet Cut Y & Z



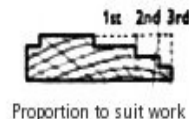
Grooves



Rebates



Modern Architrave



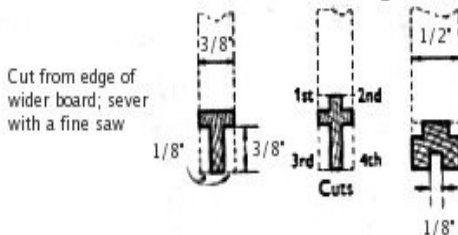
RECORD No. 161 EDGE TOOL HONER



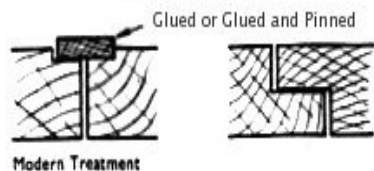
Tongued & Grooved Board



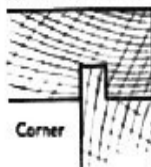
Modern Astragals



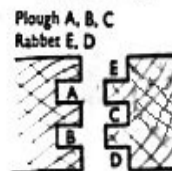
Meeting Doors



Corner Jointing



Edge Jointing



plough planes

their use & maintenance

applicable to:
PLOUGH PLANES
Nos. 043 & 044