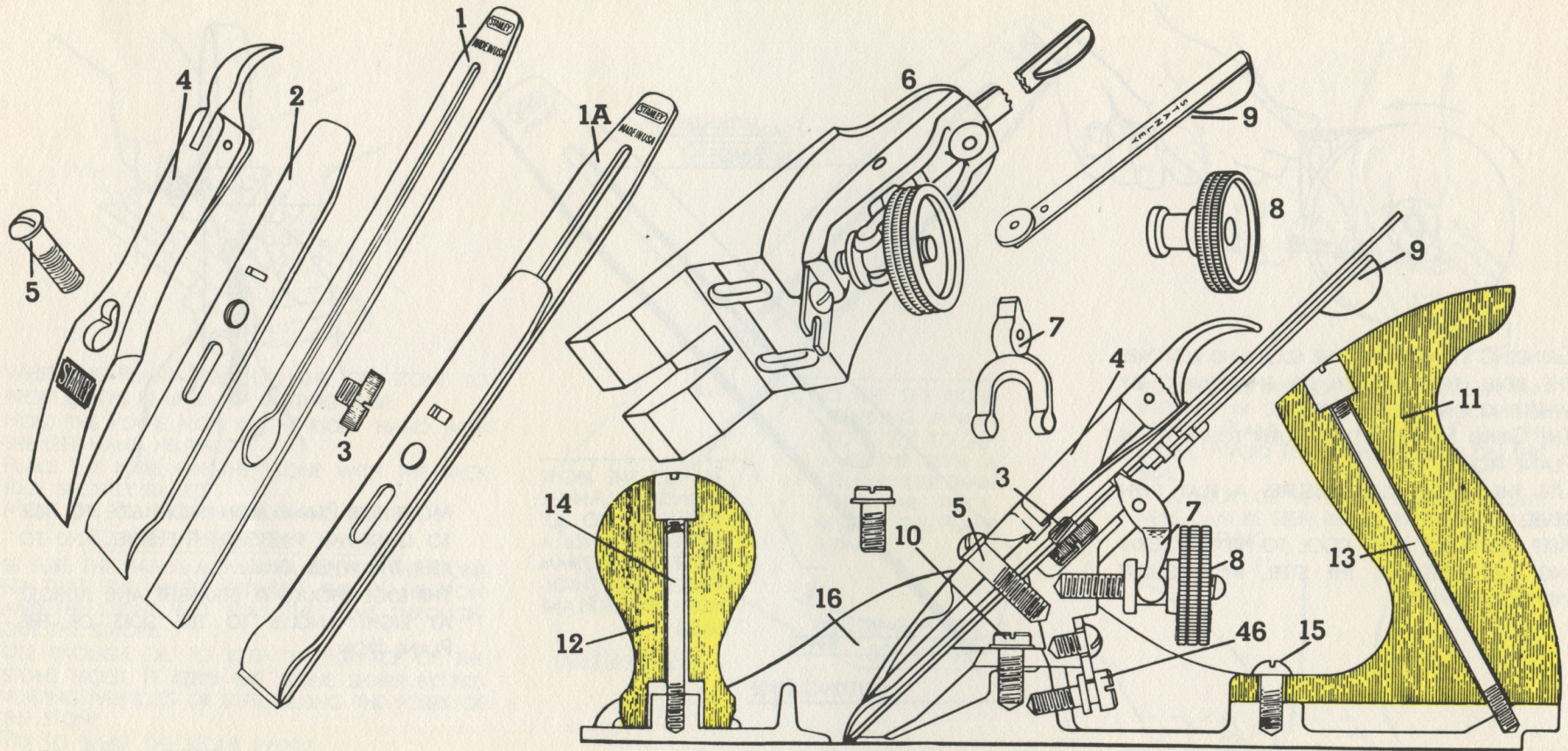


STANLEY

STANLEY PLANES

STANLEY



- 1A DOUBLE PLANE IRON
- 1 SINGLE " "
- 2 PLANE IRON CAP
- 3 CAP SCREW

- 4 LEVER CAP
- 5 " " SCREW
- 6 FROG COMPLETE
- 7 "Y" ADJUSTING LEVER
- 8 ADJUSTING NUT

- 9 LATERAL ADJUSTING LEVER
- 10 FROG SCREW
- 11 HANDLE
- 12 KNOB
- 13 HANDLE BOLT & NUT

- 14 KNOB BOLT & NUT
- 15 HANDLE SCREW
- 16 BOTTOM
- 46 FROG ADJUSTING SCREW

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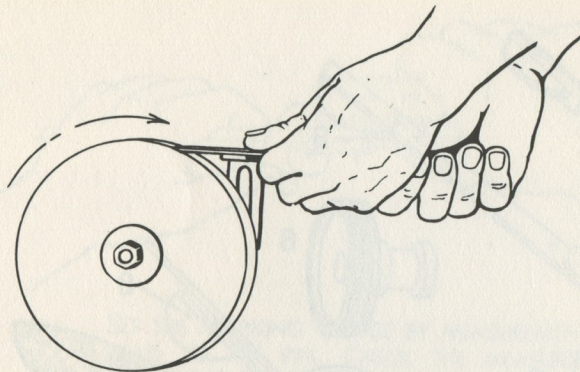
EDUCATIONAL DEPARTMENT
CHART NO. 9

STANLEY

HOW TO GRIND STANLEY PLANE IRONS

(THIS ALSO APPLIES TO CHISELS)

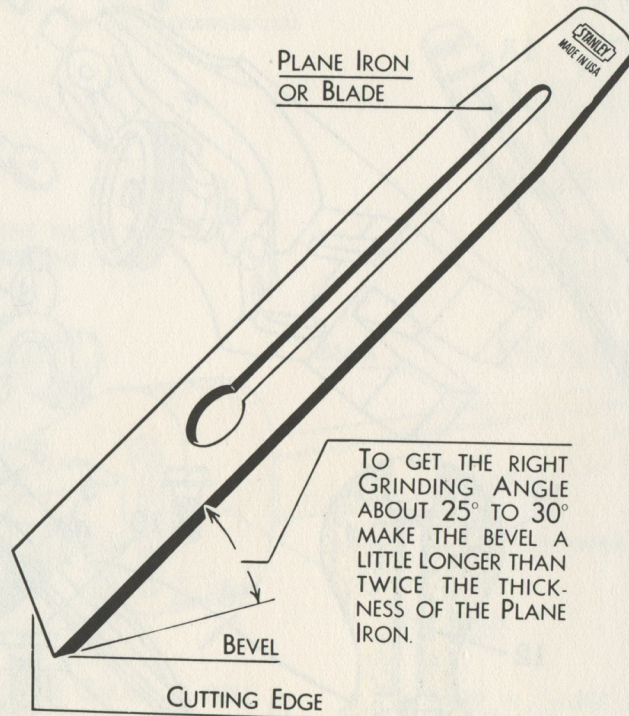
STANLEY



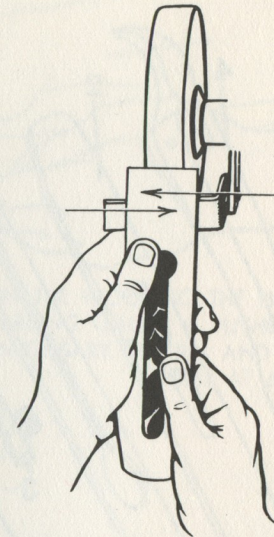
GRINDING STRAIGHTENS THE EDGE AND RESTORES THE BEVEL PREPARATORY TO SHARPENING BY WHETTING ON THE OIL STONE. THE GRIND STONE SHOULD TURN TOWARD THE PLANE IRON.

USE THE GUIDE AS IT ASSURES A FLAT EVEN BEVEL.

KEEP THE PLANE IRON COOL TO PREVENT BURNING, OR SOFTENING THE STEEL, BY FREQUENT DIPPING IN WATER.



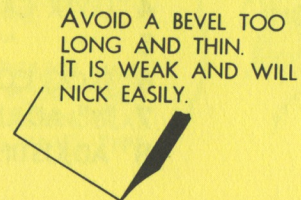
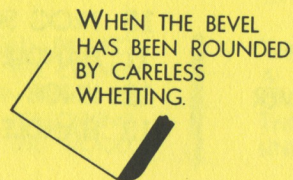
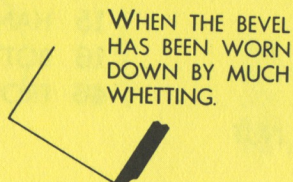
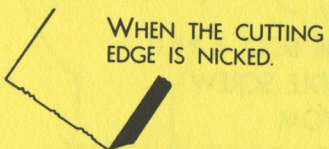
TO GET THE RIGHT GRINDING ANGLE ABOUT 25° TO 30° MAKE THE BEVEL A LITTLE LONGER THAN TWICE THE THICKNESS OF THE PLANE IRON.



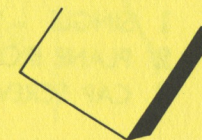
MOVE THE PLANE IRON FROM SIDE TO SIDE TO GRIND ALL PARTS OF THE BEVEL AND TO KEEP THE WHEEL TRUE.

THE EDGE SHOULD BE STRAIGHT AND ALMOST AT RIGHT ANGLES TO THE SIDES OF THE PLANE IRON.

WHEN TO GRIND A PLANE IRON OR A CHISEL



AVOID A BEVEL TOO SHORT AND THICK IT WILL NOT ENTER THE WOOD EASILY.



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CHART NO. 10

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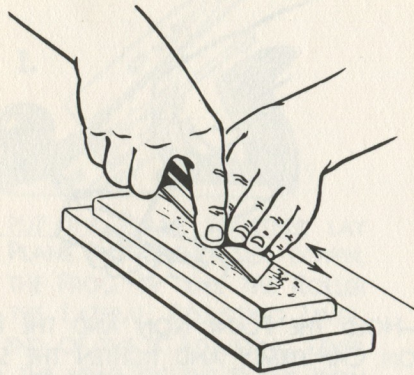
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STANLEY

HOW TO WHET STANLEY PLANE IRONS

(THIS ALSO APPLIES TO CHISELS)

STANLEY



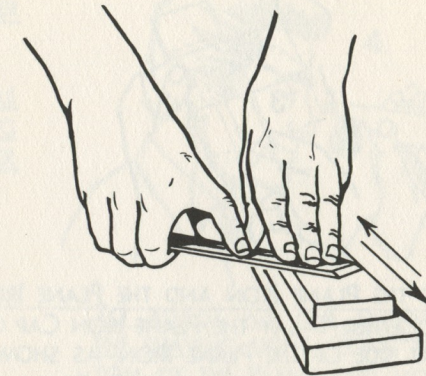
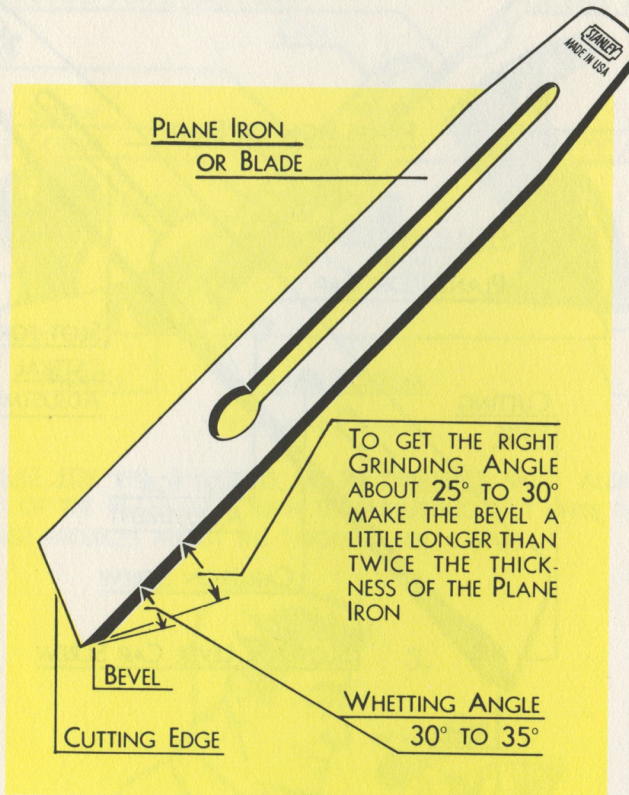
WHET THE PLANE IRON ON THE OIL STONE TO PRODUCE THE REAL SHARP CUTTING EDGE. HOLD THE PLANE IRON IN THE RIGHT HAND WITH THE LEFT HAND HELPING. PLACE THE BEVEL ON THE STONE WITH THE BACK EDGE SLIGHTLY RAISED. MOVE THE PLANE IRON BACK AND FORTH.

TO KEEP THE BEVEL STRAIGHT

BE SURE THE HANDS MOVE PARALLEL TO THE STONE SO THAT THE ANGLE BETWEEN THE PLANE IRON AND THE STONE WILL STAY THE SAME THROUGHOUT THE STROKE.

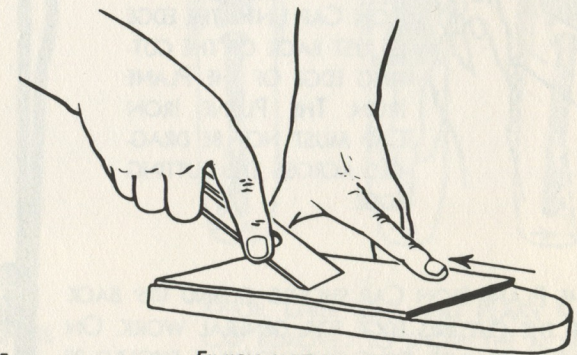
USE ENOUGH OIL TO KEEP THE SURFACE OF THE STONE MOIST. IT KEEPS THE STONE SHARP BY PREVENTING PARTICLES OF STEEL FILLING THE PORES OF THE STONE.

TRY TO WEAR THE STONE EVENLY.

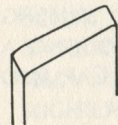


REMOVE THE WIRE OR FEATHER EDGE BY TAKING A FEW STROKES WITH THE FLAT SIDE OF THE PLANE IRON HELD FLAT ON THE STONE. AVOID THE SLIGHTEST BEVEL ON THIS SIDE.

IF A NICK OR A SHINY EDGE OF BLUNTNES CAN BE SEEN, REPEAT BOTH PROCESSES OF WHETTING.



FINISH WITH A FEW STROKES ON A LEATHER STROP TO PRODUCE A KEENER EDGE.



PLANE MARKS WILL SHOW LESS ON A FINISHED SURFACE IF THE CORNERS OF THE PLANE IRON ARE SLIGHTLY ROUNDED.



ROCKING THE PLANE IRON PRODUCES A ROUND BEVEL THAT WILL NOT CUT WELL.



A BEVEL ON THE FLAT SIDE OF THE PLANE IRON PREVENTS THE CAP IRON FITTING TIGHT, SHAVINGS WILL CLOG THE PLANE.

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CHART NO. 11

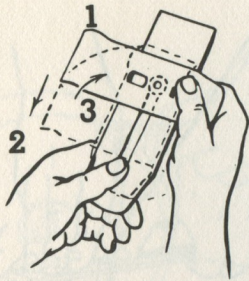
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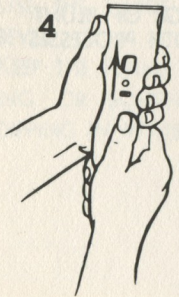
STANLEY

HOW TO ASSEMBLE THE STANLEY DOUBLE PLANE IRON

STANLEY

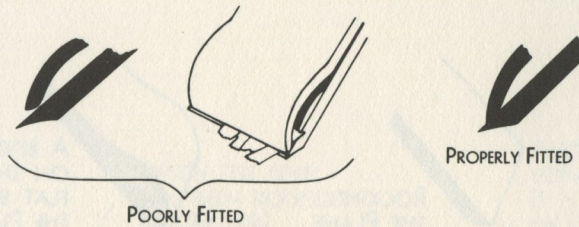
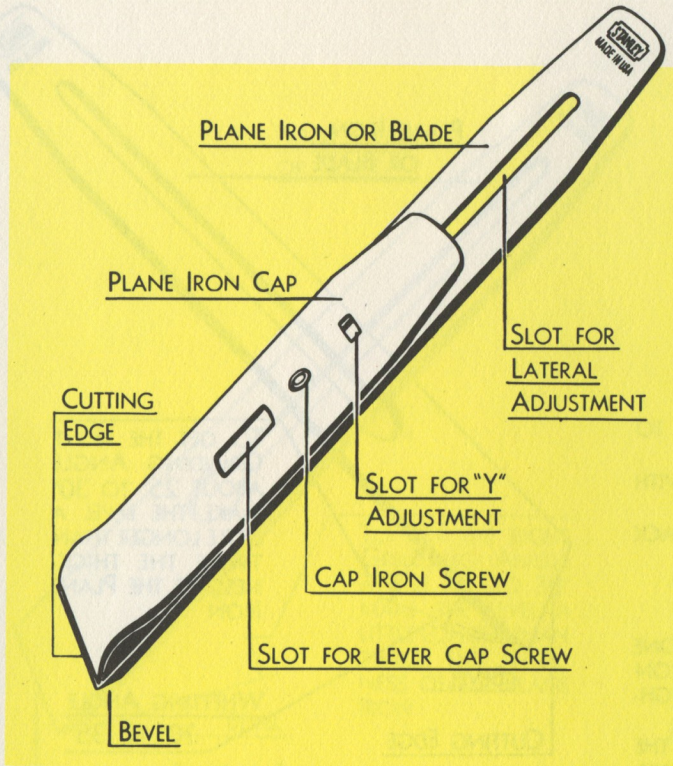


TO PUT THE PLANE IRON AND THE PLANE IRON CAP TOGETHER. 1-LAY THE PLANE IRON CAP ON THE FLAT SIDE OF THE PLANE IRON, AS SHOWN, WITH THE SCREW IN THE SLOT. 2-DRAW THE PLANE IRON CAP BACK. 3-TURN IT STRAIGHT WITH THE PLANE IRON.

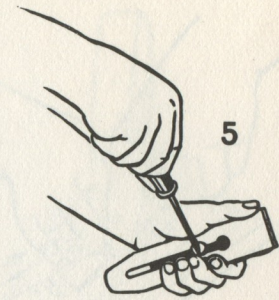


4-ADVANCE THE PLANE IRON CAP UNTIL THE EDGE IS JUST BACK OF THE CUTTING EDGE OF THE PLANE IRON. THE PLANE IRON CAP MUST NOT BE DRAGGED ACROSS THE CUTTING EDGE.

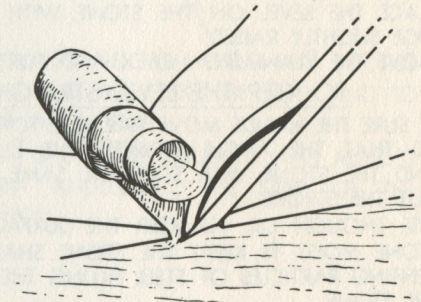
THE PLANE IRON CAP SHOULD EXTEND 1/16" BACK OF THE CUTTING EDGE FOR GENERAL WORK. ON CROSS GRAINED OR CURLY WOOD IT SHOULD BE AS NEAR TO THE CUTTING EDGE AS POSSIBLE.



EDGE OF PLANE IRON CAP MUST FIT TIGHT TO PREVENT SHAVINGS WEDGING UNDER IT, PILING UP AND CHOKING THE PLANE.



5-HOLD THE PLANE IRON AND THE PLANE IRON CAP FIRMLY AND TIGHTEN THE SCREW TO HOLD THE TWO PARTS TOGETHER.



THE PLANE IRON CAP BREAKS AND CURLS THE SHAVING. TOGETHER WITH THE TOE OF THE PLANE IT PREVENTS THE WOOD SPLITTING AHEAD OF THE CUTTING EDGE, PRODUCING A SMOOTH SURFACE. THE PLANE IRON CAP ALSO SERVES TO STIFFEN THE PLANE IRON.

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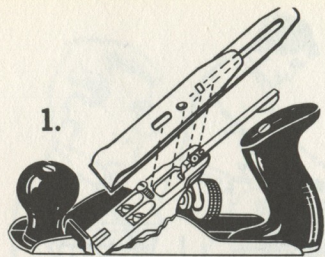
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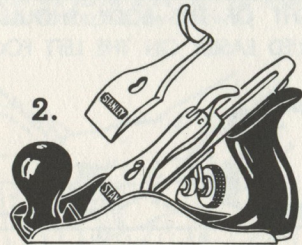
STANLEY

HOW TO SET THE STANLEY PLANE

STANLEY



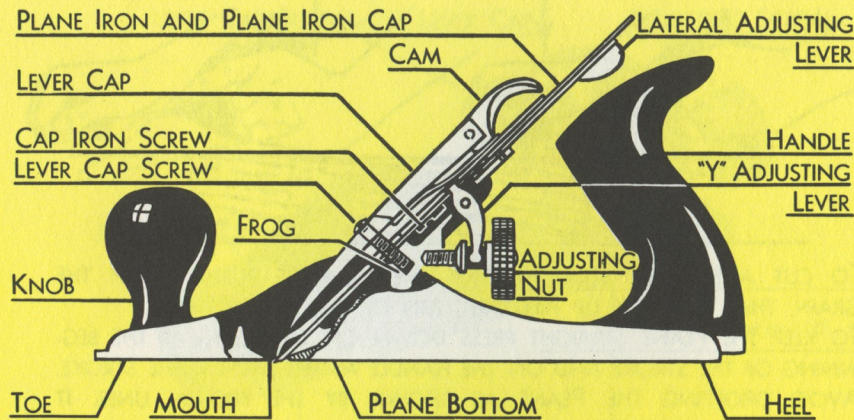
1. TO PUT THE PLANE TOGETHER LAY THE PLANE IRON, BEVEL SIDE DOWN, ON THE FROG. BE SURE THE ROLLER ON THE LATERAL ADJUSTING LEVER, THE END OF THE "Y" ADJUSTING LEVER AND THE HEAD OF THE PLANE IRON CAP SCREW ARE CORRECTLY SEATED.



2. SLIP THE LEVER CAP UNDER THE LEVER CAP SCREW AND PRESS DOWN THE CAM. IF THE PLANE IRON IS IN THE CORRECT POSITION THE CAM WILL EASILY SNAP IN PLACE. IF THE CAM WILL NOT SNAP IN PLACE EASILY, SLIGHTLY LOOSEN THE LEVER CAP SCREW.

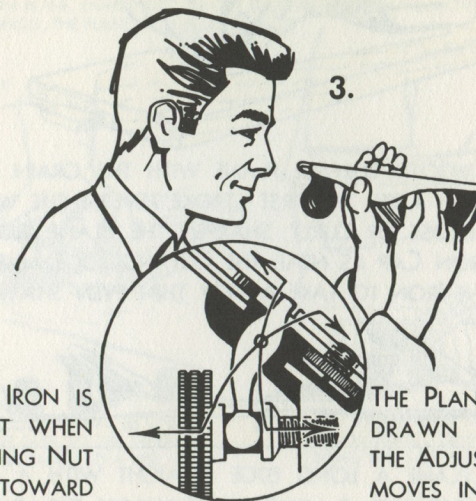
IF THE PLANE IRON, IS NOT FIRMLY HELD WHEN THE CAM IS IN PLACE SLIGHTLY TIGHTEN THE LEVER CAP SCREW.

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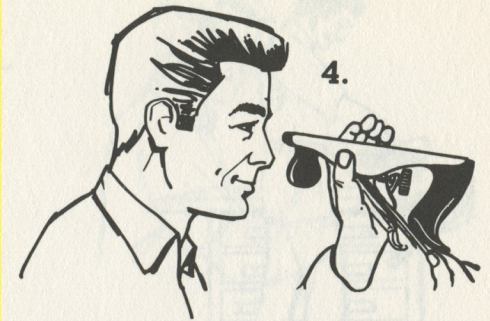
STANLEY NO. 4 OR 5

3. TO ADJUST FOR THE THICKNESS OF THE SHAVING SIGHT ALONG THE BOTTOM OF THE PLANE AND TURN THE ADJUSTING NUT UNTIL THE CUTTING EDGE PROJECTS ABOUT THE THICKNESS OF A HAIR.

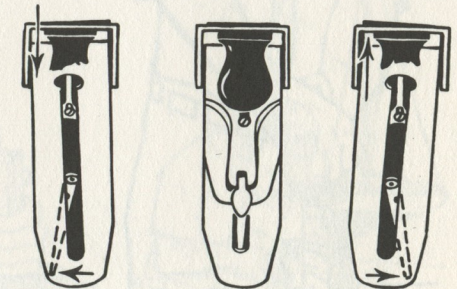


THE PLANE IRON IS PUSHED OUT WHEN THE ADJUSTING NUT MOVES OUT TOWARD THE HANDLE.

THE PLANE IRON IS DRAWN IN WHEN THE ADJUSTING NUT MOVES IN TOWARD THE FROG.



4. TO ADJUST FOR THE EVENNESS OF THE SHAVING SIGHT ALONG THE BOTTOM OF THE PLANE AND MOVE THE LATERAL ADJUSTING LEVER TOWARD THE RIGHT OR THE LEFT.



KNOB, LEVER CAP AND PLANE IRON CAP REMOVED TO SHOW THE ACTION OF THE LATERAL ADJUSTING LEVER.

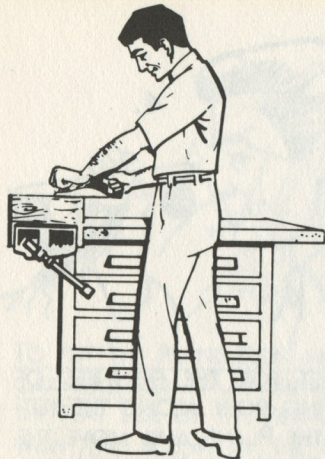
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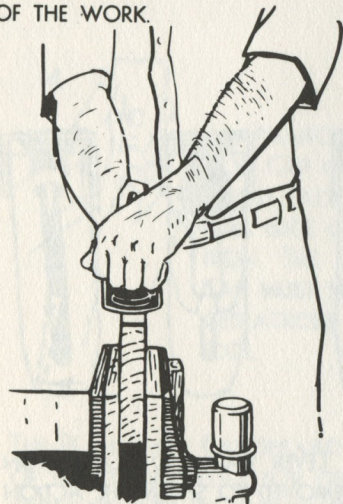
STANLEY

HOW TO USE THE STANLEY PLANE

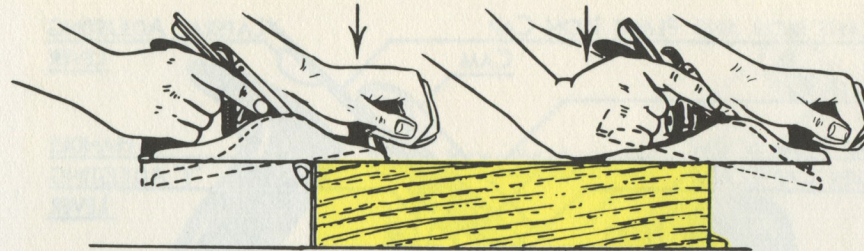
STANLEY



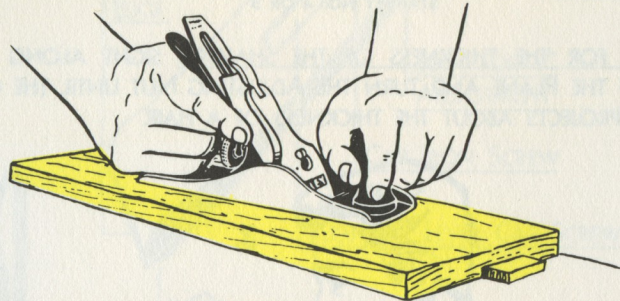
TO START PLANING TAKE AN EASY BUT FIRM POSITION DIRECTLY BACK OF THE WORK.



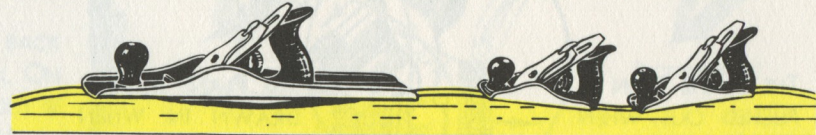
HOLD THE PLANE SQUARE WITH THE WORK FACE OF THE WORK.



TO CUT A SMOOTH STRAIGHT EDGE THE PLANE IS PUSHED WITH THE GRAIN, THAT IS IN THE UP HILL DIRECTION OF THE FIBRES. TO KEEP THE PLANE STRAIGHT PRESS DOWN ON THE KNOB AT THE BEGINNING OF THE STROKE AND ON THE HANDLE AT THE END OF THE STROKE. AVOID DROPPING THE PLANE AS SHOWN BY THE BROKEN LINES. IT ROUNDS THE CORNERS.



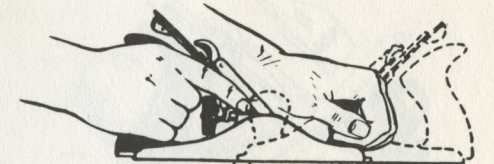
TO OBTAIN A SMOOTH SURFACE PLANE WITH THE GRAIN. IF THE GRAIN IS TORN OR ROUGH AFTER THE FIRST STROKE REVERSE THE WORK. IF THE GRAIN IS CROSS OR CURLY, SHARPEN THE PLANE IRON CAREFULLY, SET THE PLANE IRON CAP AS NEAR THE CUTTING EDGE AS POSSIBLE AND ADJUST THE PLANE IRON TO TAKE A VERY THIN EVEN SHAVING.



IT IS EASIER TO PLANE A LONG EDGE STRAIGHT WITH A LONG PLANE THAN WITH A SHORT ONE. A LONG PLANE BRIDGES THE LOW PARTS AND DOES NOT CUT THEM UNTIL THE HIGH SPOTS ARE REMOVED.



AT THE END OF THE STROKE THE WEIGHT OF THE BODY SHOULD BE CARRIED EASILY ON THE LEFT FOOT.



PLANE END GRAIN
HALF WAY FROM EACH EDGE.



IF THE PLANE IS PUSHED ALL THE WAY THE CORNERS WILL BREAK.

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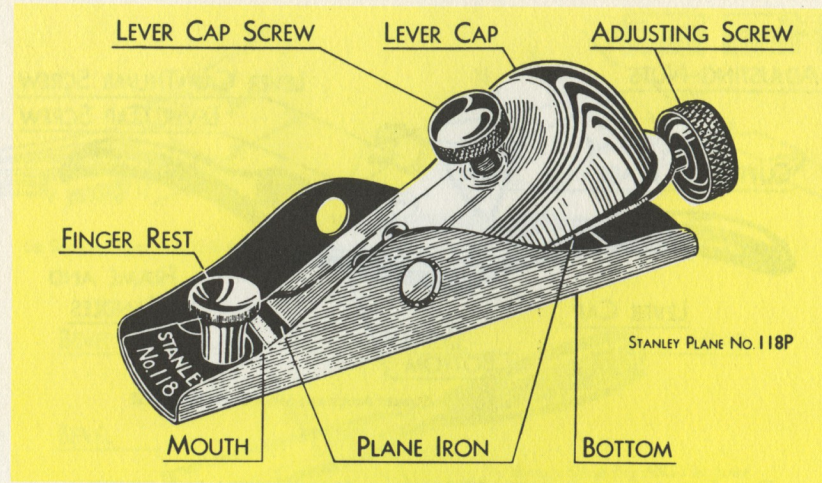
STANLEY

HOW TO ADJUST AND USE THE STANLEY BLOCK PLANE

STANLEY



TO ADJUST THE PLANE IRON VERTICALLY, FOR THE THICKNESS OF THE SHAVINGS, SIGHT ALONG THE PLANE BOTTOM AND TURN THE ADJUSTING SCREW FORWARD TO PUSH THE PLANE IRON OUT, OR TURN IT BACK TO PULL THE PLANE IRON IN.

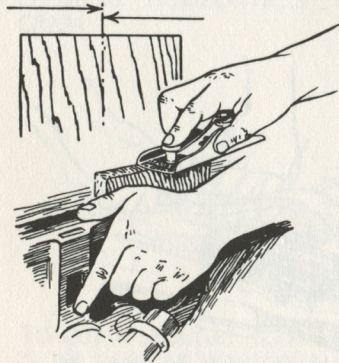


TO ADJUST THE PLANE IRON Laterally FOR EVENNESS OF SHAVINGS, LOOSEN THE LEVER CAP SCREW, SIGHT ALONG THE PLANE BOTTOM, PRESS THE PLANE IRON TO THE RIGHT OR TO THE LEFT AND TIGHTEN THE LEVER CAP SCREW.

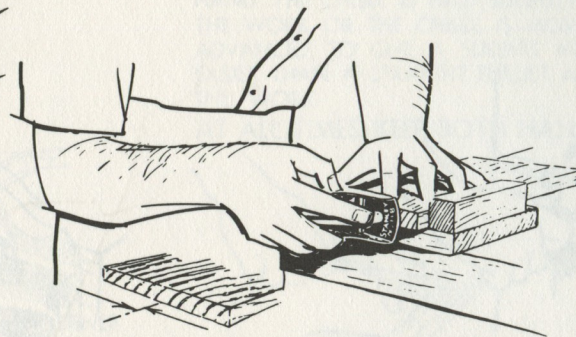
KEEP YOUR PLANE SHARP

SEE STANLEY CHARTS No. C10 AND No. C11 FOR GRINDING AND WHETTING PLANE IRONS. THE SAME APPLIES TO CHISELS.

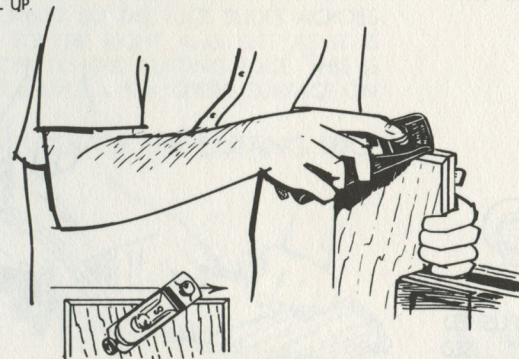
THE BLOCK PLANE HAS A SINGLE PLANE IRON SET AT A LOWER ANGLE THAN THE PLANE IRON OF THE SMOOTH PLANE, ENABLING IT TO CUT END GRAIN BETTER THAN OTHER PLANES. BECAUSE OF THE LOW ANGLE, THE PLANE IRON IS SET BEVEL UP.



THE BLOCK PLANE IS USED TO PLANE SMALL PIECES AND TO PLANE THE ENDS OF MOULDINGS, TRIM AND SIDING.



THE BLOCK PLANE IS A TOOL USED IN ONE HAND. THIS MAKES IT EASY TO USE WHEN THE WORK CANNOT BE TAKEN TO A VISE.



THE BLOCK PLANE IS THE HANDIEST TOOL FOR PLANING CORNERS AND CHAMFERS ON SMALL PIECES OF WOOD.



THE BLOCK PLANE IS INDISPENSABLE IN SHAPING HULLS AND SPARS OF MODEL BOATS AND THE PARTS OF MODEL AIRPLANES.

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