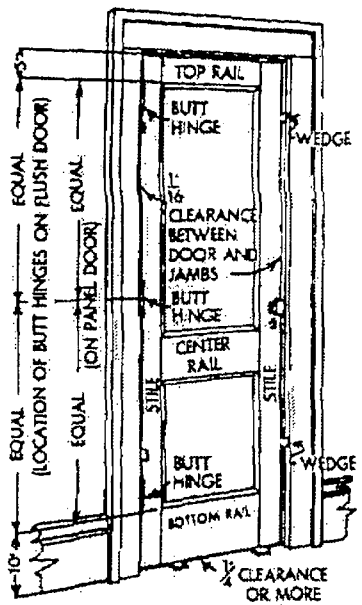
HOW TO USE

THE STANLEY BUTT GAUGE

AND HOW TO HANG A DOOR WITH STANLEY BUTT HINGES

STANLEY

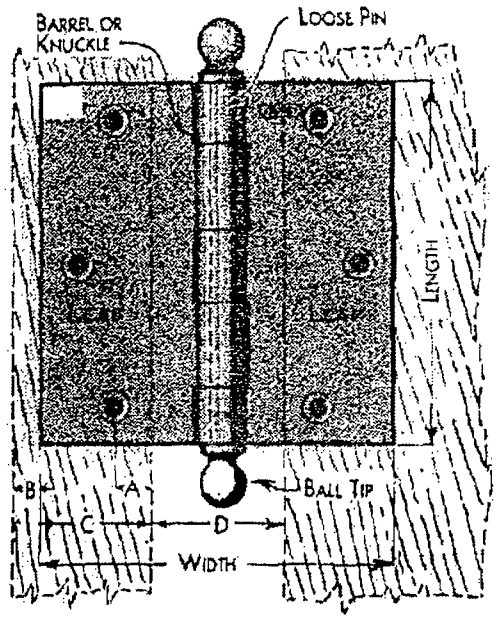


THE ILLUSTRATION IS OF STANLEY WROUGHT STEEL BUTT HINGE NO. 241- 3½x3½"

LOOSE PIN BUTT HINGE SPECIFICATIONS FOR WOOD DOORS

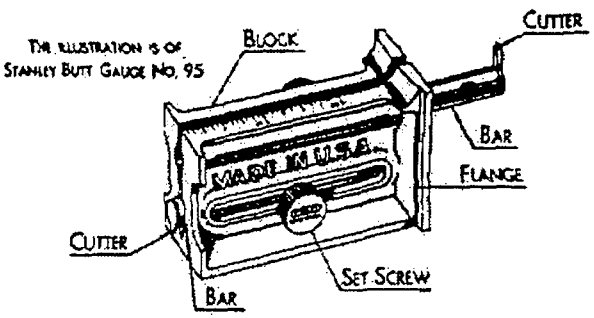
DOORS LARGER THAN 6 FT. SHOULD HAVE THREE BUTT HINGES, ONE FOR EACH 2½ FT. OR FRACTION

SIZE AND TYPE OF DOOR	SIZE OF BUTT HINGE
1⅜" CUPBOARD DOORS UP TO 24" WIDE	2½"
1⅜" TO 1¾" SCREEN DOORS UP TO 34" "	3"
1¾" TO 2⅜" DOORS UP TO 32" "	3½"
" " " " OVER 32" TO 37"	4"
1¾", 1⅞", 2" " UP TO 32" WIDE	4½"
" " " " OVER 32" TO 37"	5"
" " " " OVER 37" TO 42"	5½" HEAVY
" " " " OVER 42" TO 48"	6" HEAVY
2", 2¼", 2½" " UP TO 42" WIDE	5½" HEAVY
" " " " OVER 42" TO 50"	6½" HEAVY



A. KEEP THIS DISTANCE SUFFICIENT TO PREVENT SPLITTING.
B. SET BACK ENOUGH TO PREVENT SPLITTING WHEN CHISELING.
C. WIDTH OF THE GAIN.
D. MAXIMUM CLEARANCE WHEN DOOR IS OPEN.

STANLEY

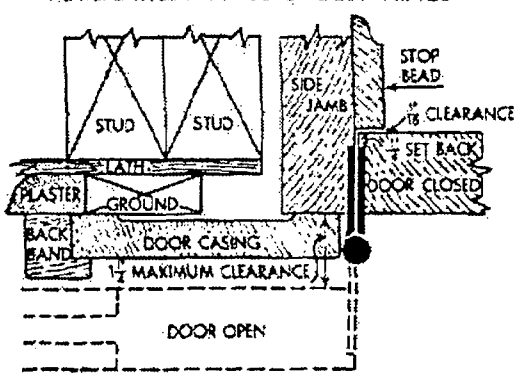


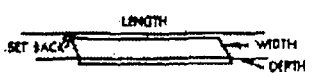
THE ILLUSTRATION IS OF STANLEY BUTT GAUGE NO. 95

HOW TO HANG A DOOR

1. SAW OFF LUGS (THE PROJECTING ENDS OF THE STILES) AT TOP AND BOTTOM OF DOOR.
2. PLANE THE BUTT STILE TO FIT SIDE JAMB. PLANE TO THE CORRECT WIDTH OF THE OPENING AT TOP AND BOTTOM AFTER SUBTRACTING 1/8" FOR CLEARANCE, OR 1/16" FOR EACH SIDE. THE LOCK STILE SHOULD BE BEVELED SLIGHTLY.
3. PLANE DOOR TO FIT AT THE TOP, THEN SCRIBE AND PLANE THE BOTTOM ALLOWING 1/16" FOR CLEARANCE AT THE TOP AND 1/4" OR MORE AT THE BOTTOM FOR RUGS.
4. WEDGE THE DOOR IN PLACE AND MARK THE POSITION OF THE BUTT HINGES ON THE DOOR AND JAMB AT THE SAME TIME, AS ILLUSTRATED.
5. REMOVE THE DOOR AND SQUARE LINES WITH THE BUTT GAUGE FOR THE LENGTH OF THE BUTT HINGE OR GAIN. GAUGE THE WIDTH OF THE GAIN AND THE DEPTH OF THE GAIN WITH THE BUTT GAUGE. REPEAT ON THE JAMB.
6. CHISEL THE GAINS AS ILLUSTRATED. SEE STANLEY CHISEL CHARTS NO. 17 AND 18.
7. DRAW THE PINS FROM THE BUTT HINGES AND SCREW ONE LEAF TO THE DOOR AND ONE TO THE JAMB. SEE STANLEY SCREW DRIVER CHART NO. 21.
8. PUT THE DOOR IN POSITION AND SLIP THE PINS IN PLACE.
9. IF THE DOOR HANGS AWAY FROM THE JAMB THE GAINS SHOULD BE DEEPER. IF THE DOOR BINDS AGAINST THE JAMB PLACE A PIECE OF CARDBOARD BETWEEN THE BUTT HINGE AND THE BOTTOM OF THE GAIN.
10. THE STOP BEADS SHOULD THEN BE NAILED IN PLACE, ALLOWING CLEARANCE.

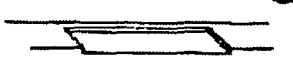
APPLICATION OF 3½X3½ BUTT HINGE





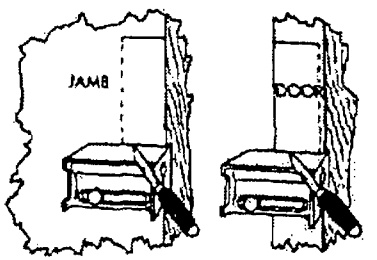
LENGTH WIDTH AND DEPTH OF GAIN LAID OFF.

GAIN SCORED AND ENDS NOTCHED TO AID IN CHISELING.

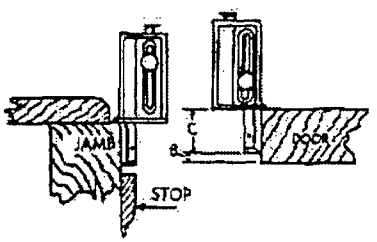


GAIN FINISHED. THE BOTTOM SMOOTHED BY PARING WITH CHISEL.

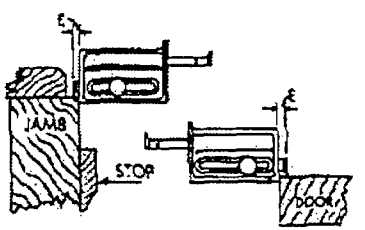
TO SQUARE LINES FOR THE LENGTH OF THE GAIN, HOLD THE FLANGE OF THE BUTT GAUGE AGAINST THE SIDE OF THE DOOR, OR THE JAMB, AND USE IT LIKE A TRY SQUARE AS SHOWN IN THE ILLUSTRATION.

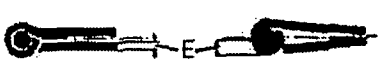


TO GAUGE THE WIDTH OF THE GAIN, ADJUST THE GAUGE AS SHOWN FOR THE DIMENSION C. THIS IS THE THICKNESS OF THE DOOR LESS THE SET BACK B, USUALLY 1/4".



TO GAUGE THE DEPTH OF THE GAIN, SET THE GAUGE FOR THE THICKNESS OF THE LEAF OF THE BUTT HINGE AND MARK THE DOOR AND THE JAMB. THE SPACE BETWEEN THE LEAVES ALLOWS FOR CLEARANCE AT THE BUTT EDGE OF THE DOOR. MOST BUTT HINGES ARE SWAGED FOR THIS CLEARANCE, BUT SOME SMALL BUTT HINGES ARE STRAIGHT. FOR STRAIGHT BUTT HINGES SET THE GAUGE FOR SLIGHTLY LESS THAN HALF THE THICKNESS OF THE BARREL.





SWAGED NOT SWAGED

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