# **Hanger Bolt Installation Guide**

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# **Method 1: Double-Nut Installation (Most Common)**

#### Step 1: Drill Pilot Hole

- Select proper drill bit size from pilot hole chart
- Mark desired depth on drill bit with tape
- Drill perpendicular to wood surface
- · Ensure depth is sufficient for full thread engagement
- · Clean out wood chips and debris

#### Step 2: Thread Two Nuts onto Machine Thread End

- Select two hex nuts matching the machine thread size
- Thread both nuts all the way up the machine threads
- Run nuts to the transition point between threads

## **Step 3: Lock Nuts Together (Jam Nuts)**

- · Hold the bottom nut with one wrench
- Use second wrench to tighten top nut against bottom nut
- Tighten firmly to create solid jam nut connection
- This creates a temporary "head" for driving

#### Step 4: Drive Wood Thread End into Pilot Hole

- · Position wood thread tip in pilot hole
- Keep hanger bolt perpendicular to surface
- Use wrench on bottom (jammed) nut to turn clockwise
- Drive until wood threads are fully engaged
- Do not over-tighten (stripping wood fibers)

#### **Step 5: Remove Installation Nuts**

- Use two wrenches to unlock the jam nuts
- Unthread both nuts from machine threads
- · Inspect threads for any damage
- Hanger bolt is now ready for final hardware installation

# **Method 2: Hanger Bolt Installation Tool**

#### **Specialized Tool Benefits:**

- Grips smooth center shank between thread sections
- Faster installation no nuts to thread on/off
- Better centering and alignment
- · Machine threads remain undamaged
- Available for common sizes (1/4" through 5/8")

#### **Installation Steps with Tool:**

- 1. Drill proper pilot hole as described above
- 2. Insert hanger bolt into installation tool
- 3. Position wood threads in pilot hole
- 4. Use wrench or socket on tool to drive bolt
- 5. Remove tool when wood threads fully engaged

#### **Tool Selection:**

- · Standard hex drive installation tools
- Ratcheting models for easier operation

- Impact-rated tools for power driver use
- Some models accommodate multiple sizes

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## **Common Installation Errors to Avoid**

Error	Consequence	Prevention
No pilot hole	Split wood, broken bolt	Always drill proper pilot hole first
Wrong pilot size	Weak hold or split wood	Use recommended size per chart
Angled installation	Reduced strength, may break bolt	Keep perpendicular to surface
Over-tightening	Stripped wood threads	Stop when wood threads seated
Insufficient depth	Poor holding power	Verify penetration before driving
Too close to edge	Wood splitting, weak hold	Maintain 3× diameter edge distance
Penetrating through	Exposed point, safety hazard	Measure and mark proper depth
Forcing crooked bolt	Broken bolt, damaged wood	Back out and restart if misaligned

## ■ CRITICAL INSTALLATION WARNINGS

NEVER attempt to drive hanger bolts without pilot holes. This will result in split wood or broken bolts.

Pilot hole size is critical: Too large = weak hold, too small = split wood or snapped bolt.

Keep installation straight: Angled installation severely weakens holding power and may snap the bolt.

Don't over-tighten: When wood threads are fully engaged, STOP. Excessive force strips the wood threads.

Check penetration depth: Ensure wood threads don't breakthrough the opposite side of the wood.

Edge distance matters: Install at least 3× diameter from wood edges to prevent splitting.

Use proper tools: Wrong wrench size can round off nuts or damage threads during installation.

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# **Required Tools and Materials**

Tool/Material	Purpose	Notes
Power drill	Create pilot holes	Variable speed recommended
Drill bits	Pilot holes per size chart	Sharp bits for clean holes
Depth stop or tape	Control pilot hole depth	Mark desired depth clearly
Two wrenches (double-nut)	Drive and lock nuts	Matching nut size
Hanger bolt tool (optional)	Alternative installation method	Faster, cleaner installation
Square or level	Ensure perpendicular installation	Verify alignment
Measuring tape/ruler	Verify dimensions	Check penetration depth
Socket set	Final hardware assembly	For nuts and washers

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