

# Woody's® Digger® Support Plate & Nut Installation Instructions

Review the snowmobile and track manufacturer's studding recommendations in your owner's manual. You may void your warranty if their recommendations are not followed. Consult your snowmobile dealer about added tunnel protection.

In each Woody's® stud package are detailed stud installation instructions. You must follow these stud installation instructions for proper installation. If you do not have the stud installation instructions, they are available at [www.WoodysTraction.com/installation-instructions](http://www.WoodysTraction.com/installation-instructions) or call (989)689-4911. Always use Woody's® lock nuts, support plates, templates/patterns (or patterns designated by the OEM and/or track manufacturer), installation tools and accessories to install your Woody's® studs.

**Lightweight tracks with single-ply technology should only be studded using Woody's® Grand Master® studs and Grand Digger® support plates. Using any other stud or support plate could cause damage to your track. Depending on the stud length, some packages will include the ALN2-4500 Big Nut. Follow the special torque specification recommended in packages of Grand Master® studs.**

## Support Plates: For Push-Through Studs **Angled Single and Angled Double Digger® Support Plate Installation: Follow special installation instructions included in the package.**

Tools Needed For Support Plate Installation For Push-Through Studs: Stud Hex Tool or 5/32" Allen Wrench, 7/16" Deep Well Socket or 1/2" Deep Well Socket, Ratchet, Torque Wrench

### I Round Digger® Support Plate Installation:

1. Push the stud through the hole from the inside of the track. (figure 1)
2. On the outside of the track place the domed Digger® support plate over the stud with the cup portion of the hollow dome toward the track. (figure 2)
3. Place the standard lock nut provided in the package or Woody's alternate Big Nut (defined below) over the stud and hand tighten. (figure 2)
4. Use a Stud Hex Tool to hold the stud. (figure 3) Tighten the standard lock nut or Woody's alternate Big Nut as instructed below (in the paragraph entitled "Nuts").

### II Square Digger® Support Plate Installation: Additional Tools Needed For Square Digger® Support Plate Installation: Indexing Tool

- Follow steps 1-4 from above.
- The front and side edges of Woody's® Square Digger® support plates must be aligned perpendicular to the edge and lugs, respectively, of the track. Use a Woody's® Indexing Tool (Part# SPI-TOOL-5 for 5/16", SPI-TOOL-7 for 7mm) for this alignment. (figure 4) **Note:** When installing Woody's® Big Nut follow the installation instructions below. After each ride, confirm the lateral sides of the Square Digger® support plates are parallel to the edge of the track. If they are not, the stud may have loosened and you must follow the retorquing instructions below.

### III Double Digger® Support Plate Installation:

- You must use a stud pattern that is designated for Double Digger® support plates. Push your studs through the corresponding holes prepared for the Double Digger® support plate from the inside of the track.
- Follow step 1-2 and 1-3 from above.
- 4. Use a Stud Hex Tool to hold the stud. Using a ratchet, tighten the two standard lock nuts or Woody's alternate Big Nuts evenly keeping the degrees of tightening substantially uniform until both standard lock nuts or both Big Nuts are fully torqued according to Woody's stud installation instructions. Alternate the Stud Hex Tool while alternating the ratchet.

### IV Grand Digger® Support Plate Installation:

**Round and Square Grand Digger®** Follow steps 1-4 from above.

**Double Grand Digger®** Follow steps 1-3 from above.

4. Use a Stud Hex Tool to hold the stud. Using a ratchet, tighten the two standard lock nuts or Woody's alternate Big Nuts evenly keeping the degrees of tightening substantially uniform until both standard lock nuts or both Big Nuts are fully torqued according to Woody's stud installation instructions. Alternate the Stud Hex Tool while alternating the ratchet.

**IMPORTANT** - Always use Grand Digger® support plates when installing Grand Master® studs. The domed cup is specially designed to fit the larger head of the stud. When installing Grand Master® studs, torque according to Woody's stud installation instructions.

### V Triangle Digger® Support Plate Installation: Additional Tools Needed For Triangle Digger® Support Plate Installation: Triangle Indexing Tool

- Follow steps 1-4 from above.
- IMPORTANT** - The front, dotted corner of the Triangle Digger® support plate must be pointing in the same direction as the rotation of the track. (figure 5)
- There is an arrow located on the track indicating the rotation direction of the track. Rotate the track to locate this arrow. (figure 6) Use a Woody's® Triangle Indexing Tool (Part# SPI-TOOL-T) for this alignment. (figure 7) **Note:** When installing Woody's® alternate Big Nuts follow the installation instructions below. After each ride, confirm the Triangle Digger® support plates are pointing the same direction as the rotation of the track. If they are not, the stud may have loosened and you must follow the retorquing instructions below.

### VI Combo Digger® and Combo Grand Digger® Support Plate Installation:

1. Push the stud through the hole from the inside of the track. (figure 1)
2. On the outside of the track place the domed Combo Digger® support plate over the stud with the cup portion of the hollow dome toward the track and hand tighten. (figure 2)
3. Use a Stud Hex Tool to hold the stud. (figure 3) Tighten the Combo Digger® as instructed below (in the paragraph entitled "Nuts").

**IMPORTANT** - Do NOT reuse after initial installation. Always use a new Combo Digger®/Combo Grand Digger® when installing a new stud.

**Note:** Woody's developed a unique shallow socket tool for installing studs that provides the torque to tighten without touching the surface of the Digger® support plate. Works ideal with colored support plates. The 5/16" socket is deep enough to install studs up to 1.575" length. (Part# SCW-4505 for 5/16"). (figure 8)

**IMPORTANT** - Shallow socket tools cannot be used with the alternate Big Nut.

## Support Plates: For T-Nut & Snap-Off® Studs

Tools Needed For Support Plate Installation For T-Nut & Snap-Off® Studs: 3/8" Deep Well Socket, Loctite® 262, Ratchet, Pliers or Side Cutters, Torque Wrench, File

Optional Tools: T-Nut Puller, Track Saver Tool™

Follow installation instructions for T-Nut & Snap-Off® Studs by referring to detailed stud installation instructions included in the stud package.

1. Slide the domed Digger® support plate onto the stud. (figure 9) Place Loctite® 262 (Part# LOC-2620) on the T-Nut threads and stud threads closest to the hex by following the directions on the Loctite® container.
2. Insert the stud with Digger® support plate into the prepared opening. (figure 10) Holding the T-Nut with the Track Saver™ Tool, hand tighten the stud into the T-Nut. Using a 3/8" ratchet, tighten the stud further and torque according to Woody's stud installation instructions.
3. **IMPORTANT** - For proper installation and optimum wear and performance use a torque wrench until the domed Digger® support plate engages the T-Nut and you reach the recommended torque. (figure 11) To attempt to tighten beyond what is recommended will only strip the T-Nut threads.
4. **The Loctite® 262 must be allowed to dry for 24 hours at 70° after the installation of the stud is complete.**
5. To ensure proper installation, a part of the threads of the Snap-Off® stud must protrude outwardly beyond the T-Nut. Use pliers or side cutters to remove this protruding piece. (figure 12) In rare cases the stud will not break cleanly off, leaving part of the connector material that is between the two threaded portions. This must be removed because it could interfere with the idler wheels. Use a file to remove the connector material that may protrude from the flush T-Nut until the stud is flush with the underside of the track. (figure 13)

## Nuts:

Tools Needed: Stud Hex Tool or 5/32" Allen Wrench, Ratchet, Torque Wrench, 3/8" Deep Well Socket, 7/16" Deep Well Socket or 1/2" Deep Well Socket

Optional Tools: T-Nut Puller, Track Saver Tool™

1. After the studs have been pushed through the holes from the inside of the track and the domed Digger® support plate has been placed over the stud. Place the Standard Lock Nut over the stud and hand tighten.

### • Standard Lock Nut:

• **Big Nut: Part# ALN2-4500 (for studs 1.175" to 1.325" ) ALN2-7000 (for 1.450" studs and longer)**

2. Use a Stud Hex Tool to hold the stud. Tighten the standard lock nut or the Big Nut with a 7/16" or 1/2" deep well socket on the ratchet (figure 14) until the bottom of the domed Digger® support plate contacts the shoulder of the stud and you reach the torque specification stated in Woody's stud installation instructions included in the stud package.

**IMPORTANT** - When installing Combo Digger®/Combo Grand Digger® plates it is imperative that the nut break free from the plate to allow for proper torquing. Once free, continuing torquing until you reach the required torque specification.

Replace with a new nut if any of the below occur.

- A. When tightening the nut, it is important not to strip the nut threads. This is a condition in which a nut has damaged threads as a result of too much torque or force applied to it. A stripped nut is ineffective and will not hold or reach the specified torque requirements. Remove a stripped nut with lock-type pliers and replace with a new nut.
- B. In addition, the sides of the hex nut can wear down and become rounded from repeated twisting or if an incorrect wrench size is used to tighten the nut. As the wrench slips, it wears down the edges until you can no longer get a grip on the nut allowing for proper torque. Remove the rounded hex nut with lock-type pliers and replace with a new nut.
- C. When you install the nylon locknut on the stud, the nylon insert wraps around the threads and locks the nut in place. Inspect the nylon insert of the locknut to ensure that it is intact after each installation. If it is not intact, replace the nut.

Replacement nuts can be purchased online at [www.WoodysTraction.com](http://www.WoodysTraction.com).

### T-NUT:

1. To simplify the installation, push Woody's® T-Nut Puller tool through the hole from the outside of the track (Part# ATT-4290 for 1/4"-20 Thread Size, ATT-4280 for 7mm Thread Size). (figure 15)
2. The threaded end of the T-Nut Puller tool will protrude through to the inside of the track. Screw a T-Nut on the T-Nut Puller tool protruding on the inside of the track.
3. On the outside of the track place a 3/8" deep well socket on a ratchet on the T-Nut Puller tool. Begin ratcheting the T-Nut Puller tool to pull the T-Nut up to the hole until it is flush with the track. (figure 16)

### REMOVE THE T-NUT PULLER TOOL

1. Use the Track Saver™ Tool to hold the T-Nut secure on the inside of the track, then with a 3/8" socket and ratchet begin ratcheting the T-Nut Puller tool to remove it. (figure 17)

**IMPORTANT** - These nuts are specifically designed for and must be used with Woody's studs. Always use new lock nuts when installing new studs.

## RETORQUING PUSH-THROUGH, T-NUT & SNAP-OFF® STUDS:

Tools Needed For Push-Through Studs: Torque Wrench, Ratchet, Stud Hex Tool or 5/32" Allen Wrench, 1/2" Deep Well Socket

Tools Needed For T-Nut & Snap-Off® Studs: Wicking Loctite® 290, Torque Wrench, Ratchet, 3/8" Deep Well Socket

1. **After each use check the torque of the stud or nut. If you need to retighten, first clean the area of any debris.**
  - For T-Nut/Snap-Off® studs - Use a torque wrench to retorque the T-Nut stud according to Woody's installation instruction. (figure 18) Then apply Wicking Loctite® 290 (Part# LOC-2900) to the exposed threads at the junction of the fastener and the threads by following the directions on the bottle.
  - For a Push Through studs - Retorque according to Woody's stud installation instructions. **Note: Prior to retorquing the nut this may be an appropriate time to review the OEM track inspection instructions to examine the condition of the track and clips for wear and/or lost parts. At the same time examine the condition of the studs and support plates. Realign and/or replace if needed.**
  - Follow steps 2A through 2C under Nuts.

This is a replica of the warning decal included in Woody's stud instructions. It must be affixed to the rear bumper of your snowmobile in an area visible to anyone standing near your snowmobile. If it is not in the package or is illegible, contact Woody's for a free replacement decal. Ceci est une reproduction de la décalcomanie d'avertissement comprise dans instructions des crampons de Woody's. Elle doit être fixée au pare-chocs arrière de votre motoneige à un endroit visible par n'importe qui se tenant près de votre véhicule. Si elle ne se trouve pas dans l'ensemble ou si elle est illisible, communiquez avec Woody's pour obtenir gratuitement une décalcomanie de rechange.

### ⚠ WARNING

- NEVER STAND BEHIND or near a rotating track with/without a jack stand or back stand or kick stand.
- Do not lift rear of snowmobile track while operating.
- Track failure or debris can project with great force resulting in personal injury, dismemberment or death.



### ⚠ AVERTISSEMENT

- NE JAMAIS SE TENIR DERRIÈRE ou près d'une chenille qui tourne, avec ou sans béquille, chandelle ou support central.
- Ne pas soulever l'arrière de la chenille de la motoneige lorsque celle-ci tourne.
- Une chenille brisée ou des débris pourraient être projetés avec force et pourraient ainsi sectionner une jambe ou causer d'autres blessures sérieuses, voire la mort.

## CONTACTING US & TECHNICAL ASSISTANCE

We have experienced technicians to assist you. For a prompt response E-mail us at <http://www.woodystraction.com/ask-the-experts>. Otherwise you can contact us from 8:00 a.m. to 4:30 p.m. (EST), Monday through Friday. Phone: 989-689-4911 Fax: 989-689-4910

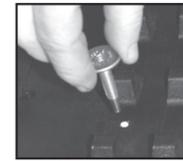


Figure 1

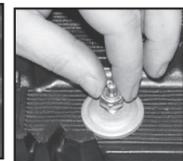


Figure 2



Figure 3



Figure 4



Figure 5

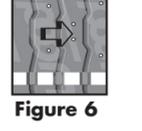


Figure 6



Figure 7

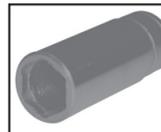


Figure 8

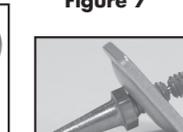


Figure 9



Figure 10



Figure 11



Figure 12

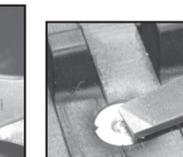


Figure 13

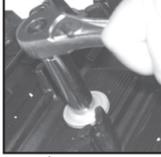


Figure 14



Figure 15



Figure 16



Figure 17



Figure 18

## IMPORTANT INSTALLATION INSTRUCTIONS

Part# INST-WDYS-PLATENUT2-2

### \*WARRANTY REGISTRATION\*

► **Confirm Your Warranty**  
Your prompt product registration confirms your right to the protection available under the terms and conditions of the Woody's warranty.

► **Log onto [www.WoodysTraction.com/warranty-registration](http://www.WoodysTraction.com/warranty-registration).**  
Submit your warranty registration online. You must have the **warranty registration number**, located below, to complete the form. You will also need your name, complete address, phone number, what product was purchased, the date purchased and the place where it was purchased. You can also submit your warranty information by mailing your warranty registration number and the information listed above to International Engineering & Manufacturing, Inc., 6054 North Meridian Rd., Hope, Michigan 48628.

### WARRANTY REGISTRATION #