THEORY RECURVE
OWNER’S GUIDE
SAFETY WARNINGS

READ CAREFULLY BEFORE HANDLING OR SHOOTING YOUR THEORY RECURVE BOW.

WARNING: Do not do any maintenance or make any adjustments of any sort to your bow while drawing or during in part of your shooting cycle. Do not allow others to work on your bow or handle it during the shooting cycle.

WARNING: Never shoot a bow with the incorrect size (spine) or the incorrect arrow length. Shooting an incorrect size (spine) or an incorrect arrow length can cause damage to your arrow and damage to you or others. Refer to the specific manufacturer’s arrow selection chart to select the correct size and length for your equipment.

WARNING: Never shoot a damaged arrow. Inspect your arrows for damage before and after each use. Consult your specific arrow manufacturer’s warnings and instructions for proper arrow inspection methods. Discard all damaged arrows.

WARNING: Never shoot a bow that has frayed, worn, or damaged strings as it could break and lead to serious injury. Be sure to carefully inspect the string before and after each use. PSE recommends that you replace your string after showing signs of wear or after one year, whichever comes first.

WARNING: Never draw or shoot your bow without all string accessories including nock points, string silencers, and kisser button. These items should all be properly installed and secured to the string. PSE recommends that a PSE retailer assist you in selection and installation of these accessories.

WARNING: Never expose your string to sharp objects including knives, broadheads, or open heat sources like a flame as they can cut the string or cause it to break.

WARNING: Never expose your bow to extreme heat or prolonged moisture. Damage can occur to your bow from heat exposure, prolonged moisture exposure, or improper storage.

PSE THEORY RECURVE BOW OWNER’S INFORMATION

Fill in the following information for your personal records. Please note that the receipt or other proof of purchase must be provided by original purchaser to qualify for warranty coverage.

Bow Serial Number: _________________________

Purchased From: _________________________

Purchase Date: _________________________

Draw Length: ___________ Draw Weight: ___________
BOW ASSEMBLY

LIMB INSTALLATION
Carefully align the limb dovetail bushing with the corresponding slot in the riser pocket. (Fig. A) Push the limb into the pocket until it is snug in the pocket. When this occurs, and the limb will stay in place under its own weight when fully seated. It is normal at this stage for there to be vertical movement possible with the limb. (Fig. B)

WARNING: Always use a bowstringer when stringing or unstringing a recurve bow.

SHOOTING STRING INSTALLATION
1. First check that you are installing the correct length and type of string for the bow. Inspect the string for damage or any tangles or knots that may have occurred.

2. Recurve strings have a large and small loop. The larger loop is intended for the top limb. Pull the larger loop end over the top limb tip. (Fig. C) Slide the loop down the limb so it is six inches from the limb tip. Place the smaller loop on the bottom limb string groove. (Fig. D)

3. With the bottom loop securely in the bottom limb string groove, slide the rubber bow stringer attachment over the string side of the bottom limb. (Fig. E) Then slide the limb gripper over the top limb, placing it six inches from the limb tip. (Fig. F)

Please make sure the rubber component rests against the target side of the limb and that the cord that attaches the top and bottom pieces of the stringer is clear of tangles and is routed on the string side of the bow.

Your Authorized PSE Dealer is supplied with technical information on PSE bows and cams. Please see your Dealer for assistance when making these adjustments.
4. Stand and hold the bow horizontally with the recurve bow stringer cord hanging down toward your feet. Step on the cord with both feet while pulling up on the bow with one hand, tightening the cord and flexing the limbs. While maintaining tension on the bow, slide the top end loop of the bowstring up the limb and secure it in the top limb string groove (Fig. G). Once the string is in place, carefully relax the tension on the bow stringer cord by slowly letting the bow down. The shooting string will then tighten and hold the bow at brace height.

5. Be sure to inspect the shooting string and verify that it is securely in the string grooves. Only then should you remove the bow stringer. (Fig. H)

6. Pluck the bowstring about one or two inches to seat the limbs. This completes the assembly procedure (diagram I).

7. Carefully inspect the string for wear and damage. Apply string wax as needed.

**WARNING:** Never dry fire your bow (shoot the bow without an arrow).
BOW UNSTRINGING

UNSTRINGING YOUR RECURVE

1. Repeat steps 1-2 on Page 4.
2. While standing up, hold the bow in the horizontal position with one hand and the shooting string parallel to the ground, as if the bow was pointed straight up. The recurve bow stringer cord should be hanging towards your feet.
3. Step on the cord with both feet and pull up on the bow with one hand so the cord is tightened. Flexing the limbs as if the bow was being drawn, slide the top end loop of the bowstring down the limb. Once the shooting string is relaxed, let the bow down and limbs will also relax, putting the bow in the unstrung position. Note: Do not pull the limbs further than needed to relax the string. (Fig. I)
4. Carefully remove the shooting string by first sliding the top loop down the limb. Once there is enough slack, remove the bottom end loop and slide the top end loop up the limb to remove the string. (Fig. J)
5. To keep the shooting string from losing its twists and adjusted length, clip or weave the top and bottom end loops together. Be sure to inspect the string for excessive wear and damage.

Fig. I

Fig. J

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Limb Adjustment

Note the factory condition of the bow is such that the string is well centered over the limb so there should not be any limb adjustment required. As is the case sometimes, lateral adjustment may be needed which could stem from a previous adjustment. It is strongly suggested that the bow be unstrung when making a lateral limb adjustment.

To make a lateral adjustment, follow the below directions.

1. With your bow in the strung position, place a piece of masking tape horizontally, approximately 4” (10cm) from the end of the riser on the archer’s side of both limbs.
2. Locate the center of the limb with a measuring tape and draw a vertical center line on the masking tape.
3. Measure 1/16” (approximately 2mm) from the drawn vertical center line and draw additional vertical lines on both left and right sides.
4. If the bow string lines up with the center line, then the limbs are in the correct alignment. If the limbs are out of alignment (Ex. 1 or Ex. 2) then proceed with the following directions.
5. Unstring the bow using the correct recurve bow stringer and remove the limbs.
6. ALIGN RIGHT: Turn the left adjustment screw (Fig. K) clockwise and turn the right adjustment screw counter-clockwise correct. Note it is important to make equal turns on both sides.
7. ALIGN LEFT: Turn the left adjustment screw (Fig. K) counter-clockwise and turn the right adjustment screw clockwise to correct.
8. Reinstall the limbs and restring the bow utilizing the correct recurve bow stringer and verify your alignment adjustment.

Ex. 1 Ex. 2

Fig. K

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TILLER ADJUSTMENT

WARNING: Never loosen your tiller bolts more than 6 turns when bottomed-out as it can result in bow disassembly.

Tiller is a measurement which indicates the weight relationship of the top and bottom limbs. Tiller affects bow reaction and aiming. It is easily measured by observing the difference between the top limb butt to the string, and the bottom limb butt and the string. The difference, if any, is the tiller.

The ideal tiller setting is a matter of preference that depends upon factors such as finger pressure, grip pressure, preferred tuning pattern, preferred aiming arc, preferred bow reaction, etc. As a starting point, it is usually easiest to tune a bow with 0 to 3/8” of tiller.

Typically, for most shooters with normal finger and hand pressure, anywhere from 0 to 3/8” of tiller is going to yield a bow which aims easily without “pulling” high or low, and which shoots more quietly. Measure the tiller as shown in the diagram below. If you wish to increase tiller without affect bow weight, unstring the bow and add turns to the bottom limb tiller bolt, then subtract the exact same number of turns from the top limb tiller bolt. After re-locking the bolts and set screws, restring the bow. Do the opposite to decrease tiller. You can increase both tiller and bow weight by adjusting the bottom limb only.

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IMPORTANT

WARRANTY REGISTRATION
TO ACTIVATE YOUR BOW WARRANTY, PSE BOW REGISTRATION MUST BE RECEIVED BY PSE WITHIN 30 DAYS OF PURCHASE.
REGISTER YOUR BOW ONLINE OR COMPLETE THE INFORMATION AND MAIL-IN THE WARRANTY CARD INSERT.

ONLINE WARRANTY REGISTRATION
Log on at: www.pse-archery.com/registration

NOTE: IF THE WARRANTY CARD IS NOT PRESENT, PLEASE USE THE FORM BELOW.

MAIL-IN WARRANTY REGISTRATION
Fill out the form below completely, remove it, place in a stamped envelope and mail to:

PSE WARRANTY REGISTRATION
P.O. Box 5487  Tucson, AZ 85703

BOW MODEL ____________________________________________________________

DEALER NAME OR WHERE PURCHASED ______________________________________

YOUR NAME __________________________________________________________

YOUR ADDRESS _________________________________________________________ APT #________

CITY_________________________ STATE ________ ZIP ____________

COUNTRY _______________ EMAIL ADDRESS ________________________________

DATE PURCHASED_____/_____/________ PHONE (______)______________________
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