

**WARNING:** Read these instructions completely before beginning installation of this product. If you lack the knowledge or tools to perform installation, please have your local professional bicycle mechanic perform the installation. Improper installation can result in loss of control or damage to the bicycle and/or serious injury or death to the rider

**REQUIRED PARTS & TOOLS (NOT INCLUDED):**

- 3/32" compatible chain
- Chain tool
- 4mm hex wrench
- 5mm hex wrench

**INSTALLATION:**

- 1 Using a 5mm hex wrench, attach the Problem Solvers Two-Pulley Chain Tensioner to the rear derailleur hanger (figure 1). Torque to 6 Nm (50–55 in-lbf)
- 2 Install the chain by threading it through both pulleys: around the front of the upper pulley and around the back of the lower pulley (figure 2). Remove links as necessary and install the master link and/or chain pin per the chain manufacturer's instructions.
- 3 To fine tune your chain-line, use a 4mm hex wrench to loosen the bolt on the sliding arm (figure 3), slide the pulley assembly until it's in the desired position (figure 4), and tighten the bolt back down to 5 Nm (44–45 in-lbf)



Figure 1



Figure 2



Figure 3



Figure 4

**LIMITED 2-YEAR WARRANTY**

PROBLEM SOLVERS™ warrants this new PROBLEM SOLVERS product against defects in materials and workmanship for two (2) years from the original date of retail purchase by the consumer. This limited warranty is expressly limited to the repair or replacement of the original product, at the option of PROBLEM SOLVERS, and is the sole remedy of the warranty. This limited warranty applies only to the original purchaser of the PROBLEM SOLVERS product and is not transferable.

In no event shall PROBLEM SOLVERS be liable for any loss, inconvenience or damage, whether direct, incidental or consequential or otherwise resulting from breach of any express or implied warranty or condition of merchantability, fitness for a particular purpose, or otherwise with respect to this product except as set forth herein. This warranty gives the consumer specific legal rights, and those rights and other rights may vary from state to state.

This warranty does not cover the following:

- Damage due to improper assembly or follow-up maintenance or lack of skill, competence or experience of the end user
- Products that have been modified, neglected, used in competition or for commercial purposes, misused or abused, involved in accidents or anything other than normal use
- Damage or deterioration to the surface finish, aesthetics or appearance of the product
- Normal wear and tear
- Labor required to remove and/or refit and re-adjust the product within the bicycle assembly

To the extent not prohibited by law, these warranties are exclusive and there are no other express or implied warranties or conditions including warranties or conditions of merchant ability and fitness for a particular purpose.