



## THANKS FOR PURCHASING A PROBLEM SOLVERS CASSETTE SPACER!

**⚠ WARNING:** CYCLING CAN BE DANGEROUS. BICYCLE PRODUCTS SHOULD BE INSTALLED AND SERVICED BY A PROFESSIONAL MECHANIC. NEVER MODIFY YOUR BICYCLE OR ACCESSORIES. READ AND FOLLOW ALL PRODUCT INSTRUCTIONS AND WARNINGS INCLUDING INFORMATION ON THE MANUFACTURER'S WEBSITE. INSPECT YOUR BICYCLE BEFORE EVERY RIDE. ALWAYS WEAR A HELMET.

For additional technical and safety information, visit:  
[www.problemsolversbike.com/safety](http://www.problemsolversbike.com/safety)

### COMPATIBILITY AND INTENDED USE

Problem Solvers Cassette spacers allow you to run a cassette on a freehub body not intended for it, to assemble a cassette from loose cogs, or to replace a lost spacer from an otherwise-complete cassette. Please consult the table below for specifics on compatibility. If you're not sure exactly what you need, we strongly recommend seeking the guidance of a professional bicycle mechanic.

QBP #	Thickness	Allows you to:
FW1323	3.5mm	Replace a Shimano/SRAM 7-speed spacer
FW8401	1.85mm	Fit 9/10-speed cassettes on 11-speed freehub bodies
FW8294	3.0mm	Replace a Shimano/SRAM 8-speed spacer
FW8400	4.5mm	Fit 7-speed cassettes on 8/9/10-speed freehub bodies

### INSTALLATION:

1. For spacers that allow you to run a cassette on a freehub body not intended for it: slide the spacer onto the freehub body (figure 1).



Figure 1

2. Install the cassette per manufacturer instructions (figure 2).



Figure 2

3. If you're replacing a lost spacer or assembling a cassette from loose cogs, slide all cassette components onto the freehub body, double checking to make sure they are in the proper order.
4. Install the cassette locking per the locking manufacturer's specification.

### A 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
- Installation of components, parts, or accessories not originally intended for or compatible with Problem Solvers product
- 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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

