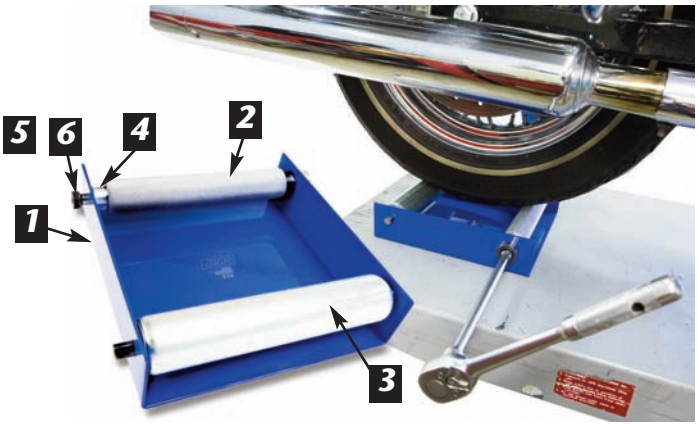
A Division of Thiessen Products, Inc.

Instruction Sheet For Tool No.936



PARTS AVAILABLE SEPARATELY

No.	Qty.	Description	JIMS Part No.
1	1	SHEET METAL BASE	936-1
2	1	KNURLED ROLLER	936-2
3	1	SMOOTH ROLLER	936-3
4	1	SPACER WASHER	936-4
5	1	SHOULDER BOLT	2298
6	1	WASHER, 1/2"	2038
7	1	INSTRUCTION SHEET	936-IS

The Tire Rotator

No.**936** *Use on all Big Twins, Sportsters, Buells, and V-Rods.*

Read complete instructions thoroughly before using this tool.

Have you ever wished you had a third hand? Well now you do. Think about the possibilities of this front or rear tire rotator tool. Have you ever wished you were able to put your motorcycle in high gear and turn the rear wheel with one hand and have the internal engine parts rotate. Check tappet adjustments, check cam timing, ignition timing, primary chain adjustments, rear belt or chain adjustments, check spoke torque and also install or remove any part or parts that need the engine rotated. Can also be used for finding the tire valve stem or just cleaning the wheel or tire.

Tools needed:

1/2" breaker bar or a long handle with 1/2" ratchet
A good selection of 1/2" extensions
JIMS Center stand bike lift No.**904**

WARNING: *You must safely lift rear tire of motorcycle off the ground with motorcycle being level. Support M/C with tie downs so it cannot and will not fall over, as you may be checking torques as high as or higher then 150 ft-lb for some models.*

NOTE: PLEASE READ ALL INSTRUCTIONS COMPLETELY BEFORE PERFORMING ANY WORK! IF YOU DO NOT KNOW WHAT YOU ARE DOING, DO NOT DO IT!

No information in this instruction sheet pertaining to motorcycle repair is represented as foolproof or even altogether safe. Even something safe, done incorrectly or incompletely can and will backfire. You and only you are responsible for the safety of your repair work and for understanding the application and use of repair equipment, components, methods and concepts.

Each and every step this tool is designed to do must be carefully and systematically performed safely by you. All information listed in this instruction sheet has been tested, re-tested and used daily in JIMS® Research and Development Department.

ALWAYS WEAR SAFETY GLASSES OR OTHER FACE AND EYE PROTECTION SUCH AS FULL FACE SHIELD. JIMS® IS NOT RESPONSIBLE FOR DAMAGE, INJURY, OR YOUR WORK. JIMS® IS NOT RESPONSIBLE FOR THE QUALITY AND SAFETY OF YOUR WORK.

CAUTION: Wear safety glasses over your eye's.
See JIMS® catalog for Hundreds of top quality professional tools.
The last tools you will ever need to buy.

Performance Parts For Harley-Davidson® Motorcycles

555 Dawson Drive, Camarillo, CA 93012 Phone 805-482-6913 • Fax 805-482-7422

A Division of Thiessen Products, Inc.

Instruction Sheet For Tool No.936

Example of usage: *Using this tire rotator for adjusting tappets.*

MAINTAINING THIS ROTATOR STAND TOOL

Apply a lubricant to all moving areas before each use (either any clean oil or any free moving grease.)

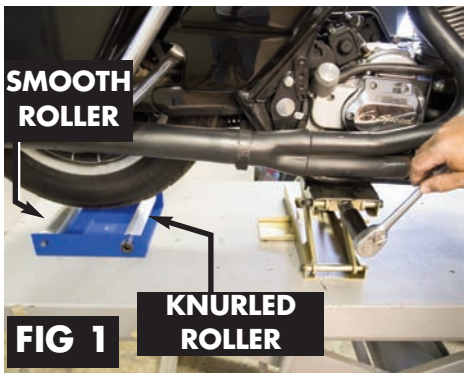


FIG 1

LIFTING THE MOTORCYCLE:

1. Lift the rear tire, using JIMS No.**904** Bike Center Jack or a similar product high enough to place rotator tool under the rear tire. Place the rotator center and square under the rear tire, in a front to rear and side-to-side position. The knurled rough surface should be positioned at the front of the rear tire, the rear smooth roller at the back of the rear tire. Notice the square female receiver is on the front right side of M/C. **See FIG 1.**

2. Lower the rear tire down to stand allowing the full weight of motorcycle to rest on the rotator stand tool.



FIG 2

SECURING MOTORCYCLE:

Note: *Support motorcycle with sturdy tie downs so it cannot and will not fall off. It is best to tie the front but sometimes it is needed to tie down the rear for added traction required for some applications.* **See FIG 2.**

3. With motorcycle secured select the 1/2" extension that will best clear exhaust pipes or any other parts of the motorcycle. Use either a 1/2" breaker bar or a long handle 1/2" ratchet. Install the extension onto the breaker bar and install the other end into the 1/2" female drive end of tool.

TURNING ENGINE OVER : (rotating flywheels)

4. Remove both spark plugs from heads. Hand shift the trans into high gear. Now you can use either your ratchet or breaker bar to rotate the flywheel assembly to turn the engine in reverse. This is good for doing any repair work, tappet adjustment, timing check, or any other engine service work. Keep in mind the engine is rotating in reverse. If you wish to push the breaker bar away from yourself (counter-clock-wise) the engine will be turning in the forward direction. **See FIG 3.**

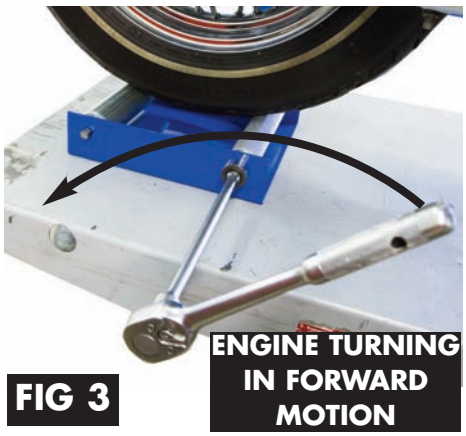


FIG 3

Examples of stand use: This is just one example of this tools usage. This stand may be used to service the primary chain adjustment, look for any tight spots on the chain. locate any loose spokes, and for cleaning front and rear tires and wheels.

WARNING: THIS STAND IS NOT DESIGNED TO RUN A LIVE ENGINE ON! DO NOT DO IT!