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Instruction Sheet For Tool #780

Beta engine Interconnect seal leak testing tool

This new tool will check the sealing of interconnect seal H-D No.**45359-00**. This seal is required to seal the oil passage way from right case to the balancer tensioner plate in all Beta engines. After you have built the "B" lower end with flywheels, balancer assembly and before you install the cam support, you will be using this tool to inspect sealing of the interconnect seal. You should check this seal when installing a new cam set or any time you have the cam support off. If a new or old interconnect seal is leaking it can cause over oiling of the lower end decreasing horsepower from oil drag, and oil carry over (oil coming out the breathers). This taxes the other seals and gaskets and lower end oil pressure. Can also be used to check pressure lost at the balancer tensioner plate. Tool is easy to use, just screw tool to right case and install JIMS No.**782** Leakdown tester.



Recommended JIMS tools:
Use with JIMS Leakdown tester No.**782**
See JIMS catalog for a complete list of engine tools.
Catalog may be viewed at www.jimsusa.com

Other Recommended tools and parts:
Service manual for the year and model you will be servicing.
Parts manual for the year and model you will be servicing.

PARTS AVAILABLE SEPARATELY

No.	Qty.	Description	Part No.
1	1	TOOL PLATE	780-1
2	2	PLASTIC SCREW	1213
3	2	O-RING	1173

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 your 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: ***Make sure your shop compressed air is clean and free of all water. You do not want to contaminate your clean oil passages. Also, if using other than a JIMS Leakdown tester you will need to refer to your H-D service manual and inspect other balancer components.***

1. Remove dowel from case as shown and install filter screen H-D No. 24983-00 into balancer oil feed hole. Install two new o-rings H-D No. 11301 into o-ring grooves of cam support surface with a small amount of clean engine oil. **See Fig 1.**
2. Lube the threads of both thumb screws held into tool with o-rings. Align tool plate over case, centering the 12mm threads of tool over the center of oil feed hole (with filter screen in it) with the laser mark. With "TOP" facing up, finger tighten both thumb screws evenly. **See Fig 2.**

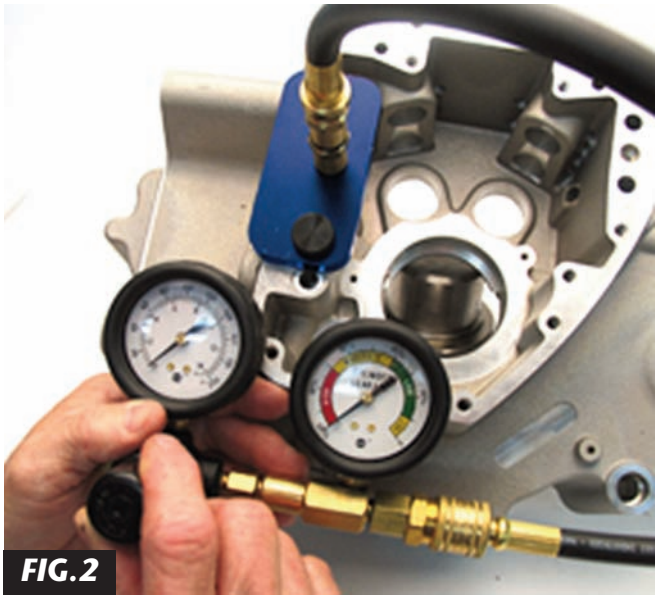
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3. Connect leakdown tester tool JIMS No. **782** to a clean dry air supply, adjust regulator gauge to 35 psi.
4. Lube the threads of the 12mm hole from leakdown tester tool JIMS No. **782.** Thread this hose into the face of tool (marked "12mm spark plug thread") hand tight only until o-ring on hose is making a good seal. **See Fig 2.**
5. Plug the 12mm hose into the leakdown gauge. Gauge needs to read 28 to 35 psi. If reading is less than 28 psi, the case must be disassembled for inspection of interconnect seal H-D No. 45359-00 for damage or incorrect installation. If the interconnect seal has been installed correctly and is in good condition, then you will need to inspect the tensioner plate per your H-D service manual to determine where the air leak is coming from.



FIG.1


FIG.2

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