



*Tools for data recovery experts*

## *Guide for using HddSurgery™ head change tools:*

- ***HDDS WD 2.5" Ramp P5***

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# 1. Introduction

This guide is intended as a short course in handling of our tools for professionals in data recovery. It is assumed that the user is experienced in data recovery and familiar with "traditional" ways of saving data. This manual should not be taken as a guide for training.

Using these tools without adequate software support is not recommended. It is recommended to use some of the proven systems for cloning, such as Ace Lab, Salvation Data, Copy-r and other products.

It is possible to recover data without HddSurgery™ tools. In many cases, the known processes of hard drive head replacement are effective and sufficient. The general idea behind HddSurgery™ tools was to make sure that the process of replacing damaged hard drive heads goes with no errors. The use of HddSurgery™ tools prevents the ferromagnetic read/write heads to get in any kind of contact with the platter i.e. disk surface or other read/write heads. Also, with some basic procedures and short training, it is possible to let junior data recovery technicians handle complex tasks. With the development of these tools, we are trying to eliminate the element of luck which usually accompanies the process of data recovery.

Experienced data recovery technicians or engineers can have great success even without our tools, but they can have absolute security only when using HddSurgery™ tools.

Non-contact head replacement implies that there is no contact between the heads, or between heads and platters in the process of dismounting the donor heads and mounting heads on the patient drive. Traditional techniques of replacing the heads imply contact between the heads and contact of heads with the platters in data area. These problems especially come to light on drives that have suffered some form of physical damage.

These tools do not solve the head compatibility problem. They will only assure that the head replacement goes easily. If you have questions about compatibility, you can send them to HddSurgery™ support team on [support@hddsurgery.com](mailto:support@hddsurgery.com)

HddSurgery™ is not responsible for any eventual damage caused by usage of our tools. HddSurgery™ is not responsible for the data stored on the patient or donor hard drives.

## 2. HddSurgery™ WD 2.5" Ramp P5 head replacement tools

HddSurgery™ **HDDS WD 2.5" Ramp P5** represents a pair of head replacement tools which can be used to safely and easily replace heads on the Western Digital 2.5" ramp hard drives with 5 platters which “park their read/write heads” on a ramp.

The set contains:

- **A pair of p5 tools**

This head replacement tool can be used on 2.5" WD ramp hard drive models which have 5 platters and with their heads parked on a ramp.

## 3. Supported models

### HDDS WD 2.5" Ramp P5 Supported models

List of Western Digital families and models on which process of head replacement could be performed by using the ramp tools from HDDS WD 2.5" Ramp P5.

#### P5 tool

##### PebbleB

WD30NMRW-11YL9S4  
WD30NMVW-11C3NS2  
WD30NMVW-11C3NS4

##### Spyglass

WD40NMZW-11GX6S1  
WD30NMZW-11GX6S1  
WD30NPZZ-00PDPT0  
WD40NDZW-11A8JS1

## 4. Handling the tools

When not in use, the tools should always be kept in a wooden box delivered with the tools. This way of keeping the tools prevents any possible damage which could appear when not handled properly.

While taking the tool out of the box, always hold it for the shank. Never hold the tool in the part where the head lifting snouts are.

Due to the sensitivity of hard drive platters to dust and any kind of contamination, be sure to clean the tools before their use. Tools can be cleaned with a piece of cotton wool and alcohol. When cleaning the head lifting snouts, be extremely gentle.



*Picture 4.1. WD 2.5" Ramp P5*

## 5. Head replacement process on WD ramp hard drives

The head replacement procedure with this tool is similar with [HDDS Sea 2,5" Ramp set 2](#) tool.

Check the PDF manual for that tool [here](#).

## 6. Conclusion

This guide was written by HDDSurgery™ team and it is based on our experience acquired during the process of development, design and testing.

HddSurgery™ is not responsible for any possible consequential damage, including the loss or recovery of data or any other damage made by using or working with HddSurgery™ tools.

You can find more information about these tools and many other tools used for data recovery on our website:

<http://www.hddsurgery.com/>

Also you can watch the videos that show how these tool work on our YouTube channel:

<http://www.youtube.com/user/HddSurgery>

If you have any doubts or questions regarding use of HDDS Sea 3.5" Ramp 4A, you can contact our support team any time:

[support@hddsurgery.com](mailto:support@hddsurgery.com)