



Tools for data recovery experts

Guide for using HddSurgery™ head change tools:

- *HDDS WD 2.5" Palmer/Charger*

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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 come 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 that 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 by 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.

This tool doesn't solve the head compatibility problem. It 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

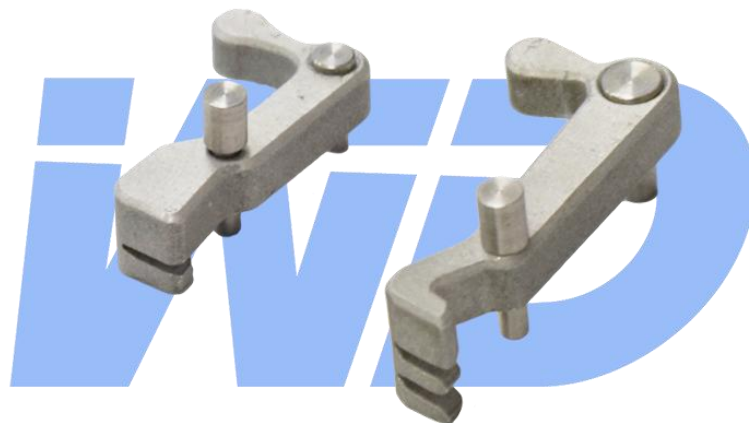
HddSurgery™ is not responsible for any eventual damage caused by usage of our tools. HddSurgery™ is not responsible for the data stored on the patient or donor hard drives.

HddSurgery™ WD 2.5" Palmer/Charger head replacement tools

HddSurgery™ **HDSS WD 2.5" Palmer/Charger** represents a two pairs of head replacement tools which can be used to safely and easily replace heads on the Western Digital hard drives from **Palmer** and **Charger** families.

The set contains:

- Two pairs of head replacement tools



Picture 2.1 (Head replacement tools)

Supported models

List of **Western Digital** models on which process of head replacement could be performed by using the tools from HDDS WD Black 2.5" Palmer/Charger set.

Palmer family

WD10SDRW-xxA0XS0
 WD10SDSW-xxAGTS0
 WD10SDZW-xxUMGS0
 WD10SMRW-xxY43S0
 WD10SMZM-xxWKCS0
 WD10SMZW-xxY0TS0
 WD10SPSX-xxA6WT0
 WD10SPZX-xxZ10T0
 WD10SPZX-xxZ10
 WD10SPZX-xxZ10T0
 WD10SPZX-xxZ10
 WD10SPZX-xxZ10T0
 WD10SPZX-xxZ10T2
 WD20SDRM-xxA4DS1

Charger family

WD15SMRW-xxYNDS0
 WD15SMZW-xxJW8S0
 WD15SMZW-xxYFCS0
 WD20SDRM-xxA4DS1
 WD20SDRW-xxVUUS0
 WD20SDRW-xxVUUS1
 WD20SDZM-xxTM5S1
 WD20SDZW-xxJJ8S0
 WD20SDZW-xxJJ8S1
 WD20SDZW-xxZ3CS0
 WD20SMZM-xxH3FS1
 WD20SMZW-xxJW8S0
 WD20SMZW-xxJW8S1
 WD20SMZW-xxYFCS0
 WD20SMZW-xxYFCS0
 WD20SPZX-xxUA7T0
 WD20SPZX-xxCRAT0
 WD20SPZX-xxUA7T0
 WD20SPZX-xxUA7T0

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. (HDDS WD 2.5" Palmer/Charger)

Head replacement process

The head replacement procedures for this tools are explained in our [video](#) tutorial.



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 HGST 3.5" Ramp Set, you can contact our support team any time:

support@hddsurgery.com