

hilti dsh 700-x parts

hilti dsh 700-x parts are essential components that ensure the optimal performance, longevity, and safety of this powerful demolition hammer. Whether you're a professional contractor, a maintenance technician, or a DIY enthusiast, understanding the various parts of the Hilti DSH 700-X can help you troubleshoot, replace worn components, and maintain the tool in top condition. In this comprehensive guide, we will explore the key parts of the Hilti DSH 700-X, their functions, common issues, and tips for proper maintenance.

Overview of the Hilti DSH 700-X Demolition Hammer

The Hilti DSH 700-X is a high-performance demolition hammer designed for heavy-duty tasks such as breaking concrete, masonry, and other robust materials. Its robust construction, powerful motor, and ergonomic design make it a preferred choice for professional users. To keep this tool functioning at its best, understanding its key parts is crucial.

Main Components of the Hilti DSH 700-X

The Hilti DSH 700-X is composed of various interconnected parts that work together to deliver efficient power and durability. These include the motor assembly, chisel holder, vibration dampening system, auxiliary handle, and more.

1. Motor Assembly

The motor is the heart of the demolition hammer, converting electrical energy into mechanical motion. It consists of:

- **Armature:** Rotates to generate the necessary force for hammering.
- **Stator:** Provides the magnetic field necessary for motor operation.
- **Brushes:** Conduct current to the armature; they wear over time and may require replacement.

Proper functioning of the motor assembly is vital for the tool's performance. Common issues include worn brushes, overheating, or electrical faults.

2. Chisel Holder and Retention System

This component secures the chisel during operation. It typically includes:

- **Chisel chuck:** The part where the chisel is inserted.
- **Locking mechanism:** Ensures the chisel remains firmly in place during use.

Regular inspection of the chisel holder ensures safe and efficient operation.

3. Vibration Dampening System

To reduce operator fatigue, the DSH 700-X incorporates vibration damping components, including:

- **Rubber mounts:** Isolate vibrations from the handle.
- **Shock absorbers:** Absorb impact during heavy-duty use.

Worn or damaged dampening parts can lead to increased vibration and discomfort.

4. Auxiliary Handle and Main Handle

These handles provide stability and control. They are adjustable and often include:

- **Grip surfaces:** Made of rubberized materials for comfort.
- **Mounting brackets:** Secure handles to the main body.

5. Power Cord and Electrical Components

The power cord supplies electricity to the motor. Key parts include:

- **Power cord:** Should be free of cuts or frays.
- **Switch assembly:** Controls power on/off and sometimes variable speed.
- **Internal wiring:** Connects electrical components securely.

6. Cooling System Components

Preventing overheating is crucial for durability. The cooling system comprises:

- **Fans:** Circulate air over internal parts.
- **Ventilation slots:** Allow heat dissipation.

Clogged vents or damaged fans can impair cooling, risking motor failure.

Common Issues with Hilti DSH 700-X Parts and

Troubleshooting Tips

Understanding potential problems with specific parts can save time and costs. Here are some common issues and solutions:

1. Worn or Damaged Brushes

- Symptoms: Loss of power, sparking, or irregular operation.
- Solution: Replace brushes following manufacturer instructions. Regular inspection prevents unexpected failure.

2. Faulty Chisel Holder or Locking Mechanism

- Symptoms: Chisel slipping or difficulty securing the chisel.
- Solution: Clean and lubricate parts; replace damaged locking components.

3. Overheating Motor Components

- Symptoms: Reduced performance, unusual smell, or shutdown.
- Solution: Check cooling vents, clean debris, and replace worn brushes or faulty wiring.

4. Electrical Failures

- Symptoms: No power, tripping circuit breakers.
- Solution: Inspect power cord, switch, and internal wiring. Replace damaged parts.

5. Vibration and Handle Issues

- Symptoms: Excessive vibration or handle looseness.
- Solution: Tighten handle mounts, replace worn vibration dampers.

Replacing Hilti DSH 700-X Parts: A Step-by-Step Guide

Proper replacement of parts ensures the longevity of your demolition hammer. Here's a general overview:

Tools Needed

- Screwdrivers (Phillips and flat-head)
- Hex keys or Allen wrenches
- Replacement parts (brushes, chisel holder, etc.)
- Lubricants and cleaning supplies

Procedure

1. Unplug the tool from the power source to ensure safety.
2. Remove external covers or guards to access internal components.
3. Inspect and remove worn or damaged parts, noting their placement.
4. Install new parts carefully, ensuring proper alignment and secure fitting.
5. Reassemble the tool, tighten all screws and fasteners.
6. Test the tool in a controlled environment to confirm proper operation.

Note: Always refer to Hilti's official service manual for specific instructions and safety precautions.

Maintenance Tips for Longevity of Hilti DSH 700-X Parts

Regular maintenance can significantly extend the lifespan of your demolition hammer's parts. Consider the following tips:

- Inspect brushes and replace them before they are completely worn out.
- Clean ventilation slots and cooling fans regularly to prevent overheating.
- Lubricate moving parts as recommended in the user manual.
- Check the power cord and electrical components periodically for damage.
- Store the tool in a dry, clean environment to prevent corrosion and dirt buildup.
- Use the correct chisel for each application and avoid excessive force.

Where to Buy Hilti DSH 700-X Parts

Authentic replacement parts are crucial for maintaining performance and safety. You can purchase Hilti DSH 700-X parts from authorized Hilti dealers, official online store, or certified distributors. Always verify the authenticity of parts to avoid counterfeit products that may compromise your tool's operation.

Conclusion

Understanding the various parts of the Hilti DSH 700-X demolition hammer is essential for effective maintenance, troubleshooting, and ensuring safe operation. From the motor assembly to the chisel holder and electrical components, each part plays a vital role in the overall functionality of the tool. Regular inspection, timely replacement of worn parts, and adherence to maintenance routines will help you maximize the lifespan and performance of your Hilti DSH 700-X. Whether you're performing routine repairs or tackling heavy-duty demolition tasks, familiarity with these components will empower you to keep your equipment in peak condition for years to come.

Frequently Asked Questions

What are the common replacement parts available for the Hilti DSH 700-X?

Common replacement parts for the Hilti DSH 700-X include blades, motor brushes, power cords, and control switches. It's best to consult the official Hilti parts list for specific component availability.

Where can I find genuine Hilti DSH 700-X parts?

Genuine Hilti DSH 700-X parts can be purchased through authorized Hilti service centers, official Hilti online store, or authorized distributors to ensure quality and compatibility.

How do I identify the correct blade replacement for the Hilti DSH 700-X?

Identify the correct blade by checking the model number, blade size, and specifications listed in the user manual or on the blade itself. Hilti recommends using only approved blades for safety and performance.

Are there any specific maintenance parts I should regularly replace on the Hilti DSH 700-X?

Yes, regularly replacing motor brushes and inspecting the power cord and switches can help maintain optimal performance and safety of the Hilti DSH 700-X.

Can I upgrade parts of the Hilti DSH 700-X for better performance?

While some parts like blades can be upgraded for different tasks, it is recommended to use original Hilti parts to ensure safety and compatibility. Consult Hilti support for specific upgrade options.

What should I do if a part of my Hilti DSH 700-X is

not functioning properly?

If a part is malfunctioning, stop using the tool immediately and contact an authorized Hilti service center for diagnosis, repair, or replacement of the faulty part.

Is it necessary to have professional training to replace parts on the Hilti DSH 700-X?

While some parts can be replaced by experienced users, it is recommended to have professional training or assistance from authorized service technicians to ensure safety and correct installation.

What are the signs that parts of the Hilti DSH 700-X need replacement?

Signs include unusual noise, decreased cutting performance, overheating, or visible damage to components. Regular maintenance checks can help identify parts that need replacement before failure.

Additional Resources

[Hilti DSH 700-X Parts: An Expert Review and In-Depth Analysis](#)

When it comes to heavy-duty demolition and concrete breaking, the Hilti DSH 700-X stands out as a powerful and reliable tool favored by construction professionals worldwide. Its performance depends heavily on the quality, compatibility, and maintenance of its various parts. In this article, we will explore the key components of the Hilti DSH 700-X, providing an in-depth review of each part, their functions, common issues, and tips for maintenance and replacement. Whether you're a seasoned professional or a dedicated DIY enthusiast, understanding these parts ensures optimal performance and longevity of your equipment.

Overview of the Hilti DSH 700-X

The Hilti DSH 700-X is a hydraulic demolition hammer designed for heavy-duty tasks such as breaking concrete, masonry, and stone. Its robust construction combines power with durability, making it suitable for demanding construction sites. Its core components include the hydraulic system, chisel holder, piston assembly, housing, and various ancillary parts that work synergistically to deliver exceptional performance.

Key Parts of the Hilti DSH 700-X

Understanding the individual parts of the Hilti DSH 700-X is essential for proper maintenance, troubleshooting, and replacement. Below, we detail each

major component.

1. Chisel Holder and Retainer

Function and Description:

The chisel holder is the interface where the operator inserts the chisel or pointed tool. It securely holds the chisel during operation, ensuring precise power transfer. The retainer, often a wedge or locking mechanism, prevents the chisel from slipping out during vigorous use.

Material and Design:

Typically made from high-strength steel or alloy to withstand impacts and shear forces, the chisel holder must maintain a tight grip without causing damage to the chisel shank.

Common Issues:

- Wear and deformation leading to loose grip
- Cracks or fractures from excessive impact
- Difficulty inserting or removing chisels

Maintenance Tips:

- Regular inspection for wear and cracks
- Lubricate the retainer if applicable
- Replace if deformation or damage is evident

2. Piston Assembly

Function and Description:

The piston is the core moving part that converts hydraulic pressure into mechanical impact energy. It strikes the internal anvil or chisel directly, generating the force needed for demolition tasks.

Design Features:

- Usually made from hardened steel or alloy for durability
- Precise machining to ensure smooth movement
- Equipped with seals to prevent hydraulic fluid leaks

Common Issues:

- Piston wear causing reduced impact force
- Sticking or jamming due to debris or lack of lubrication
- Seal failure leading to hydraulic leaks

Maintenance Tips:

- Regular cleaning of the piston chamber
- Replace seals periodically to prevent leaks
- Use compatible hydraulic fluid to reduce wear

3. Hydraulic System Components

The hydraulic system encompasses several parts that generate and transmit pressure to operate the piston effectively.

Key Parts Include:

- Hydraulic hoses and fittings
- Hydraulic valves and control units
- Oil pump and filters

Function and Importance:

These components work together to provide consistent hydraulic pressure and flow, which directly influences the impact energy and performance of the DSH 700-X.

Common Issues:

- Hydraulic leaks from worn hoses or fittings
- Clogging or contamination of filters
- Valve sticking or malfunction

Maintenance Tips:

- Regularly inspect hoses and fittings for leaks or wear
- Replace hydraulic filters as per manufacturer's schedule
- Use high-quality hydraulic oil suitable for the tool

4. Anvil and Impact Body

Function and Description:

The anvil is the impact surface against which the piston strikes. It transmits the force to the chisel and ultimately to the material being demolished.

Design Features:

- Made from hardened steel for impact resistance
- Designed to withstand repeated impacts without deformation

Common Issues:

- Wear or deformation reducing impact efficiency
- Cracks from overuse or impact fatigue

Maintenance Tips:

- Inspect regularly for cracks or excessive wear
- Replace if impact delivery becomes uneven or weak

5. Housing and Frame

Function and Description:

The housing encloses and protects internal components, providing structural support and ensuring alignment.

Material and Construction:

Typically forged steel or high-strength alloy to withstand impacts and environmental stresses.

Common Issues:

- Cracks or fractures from accidental drops or impacts
- Corrosion or rust in harsh environments

Maintenance Tips:

- Keep the exterior clean and dry
- Inspect for cracks or corrosion periodically
- Repair or replace damaged housings promptly

Additional Parts and Accessories

Beyond the main components, several ancillary parts contribute to the operation and maintenance of the Hilti DSH 700-X.

List of Common Parts:

- O-rings and seals
- Bushings and sleeves
- Impact springs or dampers
- Fasteners (bolts, nuts, pins)
- Wear plates and liners

Their Roles:

These parts prevent leaks, reduce vibrations, and maintain proper alignment, ensuring the tool performs smoothly over its lifespan.

Common Troubleshooting and Part Replacement

Proper identification of worn or damaged parts is critical to maintain the efficiency of the Hilti DSH 700-X.

Signs of Worn Parts:

- Reduced impact force or inconsistent performance
- Excessive vibration or noise
- Hydraulic leaks or fluid loss
- Visible cracks or deformation

Replacement Procedures:

- Always consult the manufacturer's manual for specific instructions
- Use genuine Hilti parts to ensure fit and performance
- Follow safety procedures to avoid injury during disassembly and assembly

Expert Tips:

- Regularly schedule maintenance checks
- Keep spare parts in stock for quick replacement
- Consider professional servicing for complex repairs

Conclusion: Ensuring Longevity and Performance

The Hilti DSH 700-X's reliability hinges on the integrity of its various parts. From the piston assembly to the chisel holder, each component plays a vital role in delivering the powerful impact required for demanding demolition tasks. Proper understanding of these parts, regular inspection, and timely replacement are essential for maintaining peak performance and extending the lifespan of your equipment.

Investing in high-quality genuine parts and adhering to recommended maintenance schedules will not only optimize your tool's efficiency but also ensure safety on the job site. Whether you're replacing a worn-out piston or upgrading your chisel holder, knowing the intricacies of each part empowers you to keep your Hilti DSH 700-X operating at its best for years to come.

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