

HD Switch 48005-05, 48005-04, 48668

HD Switch Steering Damper Instruction Manual

Model: 48005-05, 48005-04, 48668

Brand: HD Switch

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your HD Switch Non-Centering Steering Dampers. These dampers are engineered to provide enhanced steering stability and durability for compatible Hustler and Big Dog models.

The HD Switch steering dampers are designed without the self-centering feature, which is a common point of failure in some original equipment designs. They incorporate a dual seal upgrade with an exterior dust shield for maximum seal protection and extended product life.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves when working with machinery.
- Ensure the equipment is turned off, cooled down, and secured before attempting any installation or maintenance.
- Refer to your equipment's original manufacturer manual for specific safety procedures related to steering component replacement.
- If you are unsure about any installation step, consult a qualified technician.

3. PRODUCT OVERVIEW

The HD Switch Steering Damper is a robust component designed to absorb shocks and vibrations in the steering system, providing a smoother and more controlled ride. Each damper features a dual seal upgrade for superior protection against contaminants.



Image: Two HD Switch Non-Centering Steering Dampers. These dampers are sold as a 2-pack and are designed for durability.



Image: Close-up view highlighting the improved seal and dust shield upgrade, designed to protect internal components from dirt and debris.

4. SETUP AND INSTALLATION

Before beginning installation, verify that these dampers are compatible with your specific equipment model. Refer to the "Compatibility" section of this manual.

General Installation Steps:

1. Park the equipment on a level surface and engage the parking brake.
2. Locate the existing steering dampers on your equipment.
3. Carefully remove the old dampers, noting their orientation and attachment points. You may need appropriate wrenches or sockets.
4. Install the new HD Switch dampers in the same orientation as the removed units. Ensure all mounting hardware is securely fastened according to your equipment's specifications.
5. Test the steering system for proper function and ensure there is no binding or excessive play.



Image: Close-up of the damper's end fitting, showing the attachment point. Ensure proper alignment during installation.

5. OPERATING CHARACTERISTICS

These HD Switch steering dampers are specifically designed as non-centering types. This means they will not actively return the steering to a center position, unlike some original equipment dampers that feature a self-centering mechanism.

Users may notice a difference in steering feel compared to self-centering dampers. The primary function of these dampers is to provide consistent resistance and dampening of steering inputs, reducing vibration and improving control over rough terrain without the self-centering action.

6. MAINTENANCE

To ensure the longevity and optimal performance of your HD Switch steering dampers, follow these general maintenance guidelines:

- Periodically inspect the dampers for any signs of damage, leaks, or excessive wear.
- Keep the exterior of the dampers clean, especially the dust shield area, to prevent accumulation of dirt and debris.
- Check the mounting hardware regularly to ensure it remains tight and secure.
- If a damper shows signs of reduced effectiveness (e.g., increased steering looseness or vibration), it may need replacement.

7. TROUBLESHOOTING

Common Issues and Solutions:

- **Steering feels stiff or difficult to move:** This is a characteristic of new non-centering dampers and they may require a break-in period. If stiffness persists or is excessive, re-check installation for any binding or misalignment.
- **Reduced dampening or increased vibration:** Inspect the dampers for leaks or physical damage. Ensure mounting bolts are tight. If issues persist, the damper may be worn and require replacement.
- **Damper does not self-center:** This product is intentionally designed as a non-centering type. This is not a malfunction.
- **Incorrect fit:** Double-check your equipment's model number against the compatibility list provided in this manual. Hustler has several different damper versions.

8. SPECIFICATIONS

Attribute	Detail
Manufacturer	HD SWITCH
Brand	HD Switch
Item Weight	1.5 pounds (for the pair)
Package Dimensions	9.96 x 4.57 x 1.77 inches
Item Model Number	Scag (Note: This is a generic model number, refer to specific part numbers for compatibility)

Manufacturer Part Numbers	48005-05, 48005-04, 48668
Type	Non-Centering Steering Damper
Seal Upgrade	Dual Seal with Exterior Dust Shield

9. COMPATIBILITY

IMPORTANT: Please check your equipment's 6-digit model number carefully. Hustler manufactures several different versions of steering dampers. These HD Switch dampers are compatible with the following Hustler models:



Image: Important warning to verify your specific model number for compatibility.

Model Name	Model Name	Model Name	Model Name
927228 Mini Z, 19/44" 10/03 - Present	927921A/B SZ26KAWL60XR7SSA	928432 HZ23KAW54RD	929539 R-754 Kohler 24HP
927236 Mini Z, 19/52" 10/03 - Present	927939 SZ26KAWL66XR7SSA	928481 FSD25KAW60	929547 C-142 B&S 17.5HP
927244 Mini Z, 23/52" 10/03 - Present	927939A/B SZ26KAWL66XR7SSA	928481CA FSD25KAW60CAA	929554 C-146 B&S 21HP
927251 Mini Z, 20/52" 10/03 - Present	927947 SZ26KAWL72XR7SSA	928502 FST20HON54A	929596 Hustler Sport 26/54
927269 Super Mini Z, 23/44" 10/03 - Present	927947A/B SZ26KAWL72XR7SSA	928502CA FST22HON54CAA	929604 R-748 B7S 21HP
927277 Super Mini Z, 25/52" 10/03 - Present	927970 SZ27KOH54XR7SSA	928520 FST18HON48A	929612 R-754 B&S 26HP
927277HT SMZ25KAW52SSHTA	927970A/B SZ27KOH54XR7SSA	928520CA FST18HON48CAA	929620 X1052 B&S 26HP
927285 Super Mini Z, 24/52" 10/03 - Present	927988 SZ28KOH60XR7SSA	928606A/B HDZ773ISM54XR7ASSA	929638 X1060 B&S 26HP
927285HT SMZ24HON52SSHTA	927988A/B SZ28KOH60XR7SSA	928614A/B HDZ773ISM54XR7ASSA	929778 FSDGXV630HON48A
927343 Mini FasTrak, 15/36"	927996 SZ27KOH66XR7SSA	928614CA HDZ773ISM60XR7ASSCAA	929786 FSDGXV630HON54A
927350 Mini FasTrak, 17/42"	928002 SZ27KOH72XR7SSA	928622A/B HDZ773ISM66XR7ASSA	929794 FSDGXV630HON60A
927368 Mini FasTrak, 16/42"	928010 SZ28KOH60XR7SSA	928630A/B HDZ773ISM72XR7ASSA	929851 Hustler Sport 17.5/42
927376 Mini FasTrak, 15/36"	928010A/B SZ28KOH60XR7SSA	928630CA HDZ773ISM72XR7ASSCAA	929859 Hustler Sport 16/42
927467 Super Z, 27/60" RD S/N 07020000 & Up	928028 SZ28KOH66XR7SSA	928648 HDZ773ISM54RDSSA	930081 C-154 B&S 26HP
927483 Mini Z 20/44"	928028A/B SZ28KOH66XR7SSA	928655 HDZ773ISM60RDSSA	
927491 Mini Z 20/52"	928036 SZ28KOH72XR7SSA	928655CA HDZ773ISM60RDSSCAA	
927525 Mini Z 27/52"	928036A/B SZ28KOH72XR7SSA	928663 HDZ773ISM72RDSSA	
927533 Super Mini Z, 27/52"	928044 SZ30KOH60XR7SSA	928853A/B HZ26KAWL60XR7	
927533HT SMZ27KOH52SSHTA	928044A/B SZ30KOH60XR7SSA	928861A/B HZ29KAWL60XR7	
927624 Super Z, 27/72" RD S/N 07020000 & Up	928044CA SZ30KOH60XR7ASSCAA	928879A/B SZ31KAW54XR7	
927673 Super Z, 25/60" RD S/N 07020000 & Up	928044HTCA SZ30KOH60XR7BSSHTA	928887A/B SZ31KAW60XR7	
927681 Super Z, 25/72" RD S/N 07020000 & Up	928051 SZ30KOH66XR7SSA	928887CA SZ31KAW60XR7ASSCAA	
927723 HZ23KAW54XR7STA	928051A/B SZ30KOH66XR7SSA	928887HT SZ31KAW60XR7BSSHTA	
927723A/B HZ23KAW54XR7STA	928069 SZ30KOH72XR7SSA	928887HTA/B SZ31KAW60XR7	
927731 HZ23KAW60XR7STA	928069A/B SZ30KOH72XR7SSA	928887HTCA SZ31KAW60XR7ASSHTCAA	
927749 HZ27KOH54XR7STA	928069CA SZ30KOH72XR7ASSCAA	928895A/B SZ31KAW66XR7	
927749A/B HZ27KOH54XR7STA	928101 HZ750YAN54XR7	928911A/B SZ31KAW72XR7	
927756 HZ24HON60XR7STA	928119 HZ750YAN54RD	928911CA SZ31KAW72XR7ASSCAA	
927756A/B HZ24HON60XR7STA	928143 ATZ31KAW60XR7SSA	928929 SZ31KAW60RD	
927772 HZ25KAW60XR7STA	928143CA ATZ31KAW60XR7SSCAA	928929CA SZ31KAW60RDASSCAA	
927772A/B HZ25KAW60XR7STA	928150 ATZ31KAW72XR7SSA	928937 SZ31KAW72R	
927772CA HZ25KAW60XR7ASTCAA	928150CA ATZ31KAW72XR7SSCAA	929125 Hustler Sport 17.5/42	
927798 HZ25KAW66XR7STA	928168 ATZ31KAW60RDSSA	929125 Hustler Sport 17.5/42 CA	
927798A/B HZ25KAW66XR7STA	928192 FSD17KAW36	929133 Hustler Sport 21/48	
927806 HZ27KOH60XR7STA	928192 MZ17KAW36	929133 Hustler Sport 21/48 CA	
927806A/B HZ27KOH60XR7STA	928192 MZ17KAW36 S/N 07020000 & Up	929141 Zeon 42"	
927814 HZ27KOH66XR7STA	928192CA FSD17KAW36CAA	929331 Z423KAW48SDSTA	
927814A/B HZ27KOH66XR7STA	928200 FSD19KAW42	929349 Z425KAW54SDSTA	
927848 SZ24HON60XR7SSA	928200 MZ19KAW42	929356 Z427KAW60SDSTA	
927848A/B SZ24HON60XR7SSA	928200 MZ19KAW42 S/N 07020000 & Up	929364 HZ29KAW72XR7STA	
927855 SZ24HON66XR7SSA	928200CA FSD19KAW42CAA	929406 Z423KAW48SDSSA	
927855A/B SZ24HON66XR7SSA	928226 ATZ27KOH60XR7SSA	929414 Z425KAW54SDSSA	
927871 SZ25KAW54XR7SSA	928234 ATZ27KOH72XR7SSA	929422 Z427KAW60SDSSA	
927871A/B SZ25KAW54XR7SSA	928267 FST19KOH48A	929463 Hustler Sport 16/42	
927889 SZ25KAW60XR7SSA	928275 FST19KAW48A	929463 Hustler Sport 16/42 CA	
927889A/B SZ25KAW60XR7SSA	928291 FST21KAW54CA	929471 Hustler Sport 16/48	
927889CA HZ25KAW60XR7ASSCAA	928374 FSD23KAW48	929471 Hustler Sport 16/48 CA	
927897 SZ25KAW66XR7SSA	928374CA FSD23KAW48CAA	929489 X-1052 Kaw 24HP	
927897A/B SZ25KAW66XR7SSA	928382 FSD25KAW54	929497 X-1060 Kaw 26HP	
927913 SZ25KAW72XR7SSA	928382CA FSD25KAW54CAA	929505 X1052 Kohler 25HP	
927913A/B SZ25KAW72XR7SSA		929513 X1060 Kohler 27HP	
927921 SZ26KAWL60XR7SSA		929521 R-748 Kohler 22HP	

Image: Detailed table listing compatible Hustler model numbers for these steering dampers.

Compatible Models (partial list, refer to image for full list):

- 927228, 927236, 927244, 927251, 927269, 927277, 927285
- 927343, 927350, 927368, 927376, 927467, 927483, 927491
- 927525, 927533, 927624, 927673, 927681, 927723, 927731
- 927749, 927756, 927772, 927798, 927806, 927814, 927848
- 927855, 927871, 927889, 927897, 927913, 927921, 927939
- 927947, 927970, 927988, 927996, 928002, 928010, 928028
- 928036, 928044, 928051, 928069, 928101, 928119, 928143
- 928150, 928168, 928192, 928200, 928226, 928234, 928267
- 928275, 928291

10. WARRANTY AND SUPPORT

For any questions regarding installation, compatibility, or product performance, please contact HD Switch customer support. While specific warranty details are not provided in this manual, the product is typically covered by a standard return policy allowing for refund or replacement within 30 days of purchase.

For further assistance, please visit the HD Switch brand page on Amazon or contact the seller directly through your Amazon order history.

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