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BUYERS PRODUCTS COMPANY SP325/D6715/75625/D6106/75626

SNOWEX Salt Spreader Gearbox Transmission User Manual

Model: SP325, SR110, SR210, D6715, 75625

Brand: BUYERS PRODUCTS COMPANY

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the SNOWEX Salt Spreader 14.5:1 Gearbox Transmission. This transmission (part #75625) is designed for use with various SnowEx, Western, and Fisher salt spreaders, including models SP-125, SP-225, SP-325, SP-575X, SP-1075X, SR-110, SR-210, SP-225-1, SP-125-1, SP-100-1, Low-Pro 300W, and Quick-Caster 300W. The kit includes all necessary hardware for installation.



Figure 1: SNOWEX Salt Spreader Gearbox Transmission with included mounting bolts.

The image above shows the complete gearbox transmission unit, including the output shaft and the four hexagonal mounting bolts provided in the kit. This unit is crucial for the proper functioning of your salt spreader's material delivery system.

2. SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Manufacturer	SAE
Brand	BUYERS PRODUCTS COMPANY
Manufacturer Part Number	SP325/D6715/75625/D6106/75626
ASIN	B09C93FSVX
Gear Ratio	14.5:1 (implied from product title)
Shaft Length	Approximately 6 inches (refer to Figure 2)
Shaft Diameter	Approximately 1/2 inch (refer to Figure 3)
Date First Available	July 21, 2021

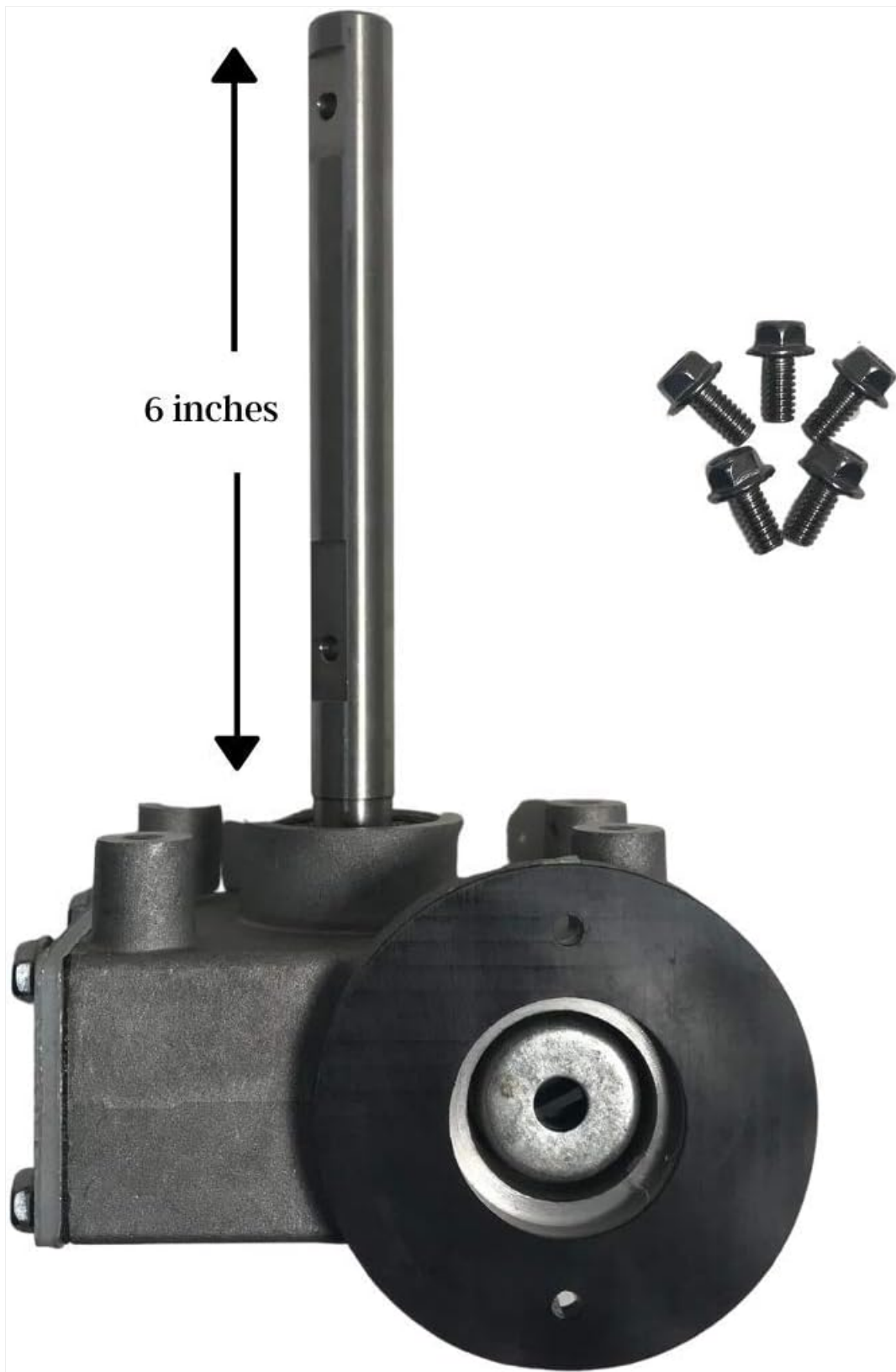


Figure 2: The gearbox transmission showing the approximate 6-inch length of the output shaft.

This image highlights the approximate length of the output shaft, which is critical for proper fitment and function within the salt spreader assembly.



Figure 3: The gearbox transmission showing the approximate 1/2-inch diameter of the output shaft.

This image illustrates the approximate diameter of the output shaft, which ensures compatibility with the spreader's internal components.

3. INSTALLATION

Proper installation is crucial for the longevity and performance of your new gearbox transmission. Always refer to your specific salt spreader's service manual for detailed, model-specific instructions. The following are general guidelines:

1. **Safety First:** Ensure the salt spreader is turned off, disconnected from any power source, and secured to prevent accidental movement. Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.

2. **Remove Old Unit:** Carefully disconnect any wiring or linkages attached to the old transmission. Unbolt and remove the old gearbox from its mounting location. Note the orientation and connections for reassembly.
3. **Inspect Mounting Area:** Clean the mounting surface on the spreader to ensure a flush fit for the new gearbox. Check for any damage or debris that could interfere with installation.
4. **Position New Gearbox:** Align the new SNOWEX gearbox transmission with the mounting holes. Ensure the output shaft is correctly oriented to engage with the spreader's auger or spinner mechanism.
5. **Secure with Hardware:** Use the provided mounting bolts to secure the new transmission. Tighten bolts evenly and to the manufacturer's specified torque settings, if available in your spreader's manual, to prevent over-tightening or loosening during operation.
6. **Reconnect Components:** Reattach any wiring, chains, or linkages that were disconnected from the old unit. Ensure all connections are secure and properly routed.
7. **Test Functionality:** Before full operation, perform a manual test to ensure the shaft rotates freely and engages correctly with the spreader's internal components.



Figure 4: Top view of the gearbox, illustrating the four mounting points and the output shaft.

This image provides a clear view of the top of the gearbox, highlighting the four threaded holes where the mounting bolts are inserted to secure the unit to the spreader frame.

4. OPERATION

The gearbox transmission is a critical component that transfers power from the motor to the auger or spinner mechanism of your salt spreader. Its operation is integrated with the spreader's control system.

- **Power Transfer:** The gearbox reduces the rotational speed from the motor while increasing torque, allowing the

auger to effectively move salt or the spinner to distribute it.

- **Engagement:** When the spreader's motor is activated, the gearbox engages, causing the output shaft to rotate.
- **Material Flow:** The rotation of the output shaft drives the auger (for material delivery) or the spinner (for material distribution), depending on the spreader design.

Always operate your salt spreader according to its specific operational manual. Ensure the gearbox is free from obstructions and that all connections are secure before and during operation.



Figure 5: Close-up of the gearbox output shaft area, showing the protective seal and internal mechanism.

This detailed view focuses on the output shaft and the surrounding seal, which protects the internal gears from environmental elements during operation.

5. MAINTENANCE

Regular maintenance extends the life of your gearbox transmission and ensures reliable performance. Perform these checks periodically, especially before and after the spreading season:

- **Visual Inspection:** Check the gearbox housing for any signs of cracks, leaks, or damage. Ensure all mounting bolts are tight.
- **Shaft Condition:** Inspect the output shaft for bends, excessive wear, or corrosion. Ensure it rotates smoothly without excessive play.
- **Lubrication:** While many gearboxes are sealed and require no internal lubrication, check your spreader's manual for any specific lubrication requirements for external components or linkages connected to the gearbox.
- **Cleanliness:** Keep the exterior of the gearbox clean, especially around seals and mounting points, to prevent dirt and debris from entering the unit.
- **Storage:** When storing the spreader for extended periods, ensure the gearbox is clean and dry. Consider applying a light coat of rust preventative to exposed metal parts if operating in corrosive environments.



Figure 6: Side view of the gearbox transmission, showing the sealed housing.

This image displays a side profile of the gearbox, emphasizing its robust, sealed construction designed to protect the internal components from harsh operating conditions.

6. TROUBLESHOOTING

If you encounter issues with your salt spreader's material delivery, the gearbox may be a contributing factor. Here are some common troubleshooting steps:

- **No Material Flow / Shaft Not Rotating:**
 - Check power supply to the motor.
 - Inspect motor for proper operation.

- Verify all electrical connections to the motor and gearbox are secure.
 - Check for obstructions in the auger or spinner mechanism that might be preventing rotation.
 - Inspect the gearbox output shaft for damage or disengagement from the auger/spinner.
- **Unusual Noises (Grinding, Whining):**
 - Indicates potential internal wear or damage to gears/bearings.
 - Discontinue use immediately to prevent further damage.
 - Consult a qualified technician for inspection or replacement.
- **Oil Leaks:**
 - Check seals around the shaft and housing.
 - A leaking gearbox may indicate a damaged seal or excessive internal pressure.
 - Address leaks promptly to prevent internal component damage due to lack of lubrication.
- **Excessive Vibration:**
 - Ensure the gearbox is securely mounted and all bolts are tightened.
 - Check for bent or damaged output shaft.
 - Inspect the auger or spinner for balance issues or damage.

If troubleshooting steps do not resolve the issue, or if you suspect internal damage to the gearbox, it is recommended to contact a qualified service professional or the manufacturer for assistance.

7. WARRANTY & SUPPORT

Specific warranty information for this SNOWEX Salt Spreader Gearbox Transmission (part #75625) is typically provided at the point of purchase or within the original product packaging. Please retain your proof of purchase for warranty claims. For technical support, parts inquiries, or warranty service, please contact BUYERS PRODUCTS COMPANY directly or the authorized dealer from whom the product was purchased. Refer to their official website or documentation for contact information.

Note on Videos: No official product videos from the seller were available for inclusion in this manual.



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This manual is for informational purposes only. Always follow safety guidelines and consult professional assistance when necessary.