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# STAINLESS STEEL DUMP BOX AUGER SPREADERS

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## Service Manual

**MFG BY: SMITH METAL WORKS OF NEWARK, INC.**  
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ALL SMITH STAINLESS STEEL SPREADERS COME EQUIPPED WITH A NAME PLATE ATTACHED TO IT. THE MODEL AND SERIAL NUMBERS ARE STAMPED ON THE NAME PLATE. ALWAYS USE THE MODEL AND SERIAL NUMBERS IN ALL CORRESPONDENCE REGARDING PARTS AND OR OPERATION.

## SAFETY

### AS WITH ANY PIECE OF MACHINERY, COMMON SENSE IS THE BEST PRECAUTION TO MINIMIZE THE POSSIBILITY OF PERSONAL INJURY.

Although, following an outline of good and proper practices for this piece of equipment, good safety practices must be followed. Anything not covered in the general list! Remember, “SAFETY IS IN YOUR HANDS”.

- Smith Metal Works of Newark, Inc., cannot emphasize enough about the inherent hazard of an auger, make sure all personnel who operate this equipment are aware of all operating & service procedures.
- Before operation of this equipment, the operator must be instructed on proper operation and warned of the concerning issues of proper use of this equipment.
- This piece of equipment should be installed by qualified personnel.
- Read Completely and Understand Completely the Manual Before any Operation of this piece of equipment.
- Check periodically that all guards and covers/shields are in place during and through all operation. **Operating this unit without all guards and covers/shields is dangerous and should never occur.**
- Stop the spreader and remove power prior to leaving the vehicle that is operating the spreader.
  - Stop the Spreader, disconnect and secure ALL sources of power before you service this spreader. Secure power in such a way that only the person(s) servicing the unit only can restore power.
  - NEVER ENTER the Dump Body when the spreader is in operation, this exposes the person to moving parts which could result in serious injury.
  - Before removing or opening any cover or guard, turn off power, disconnect and secure.
- Running spreaders throw material at a high rate of speed, keep all personnel and bystanders clear of the area to reduce the risk of injury.
- To unload a small quantity of material from the unit, run the auger with the spinner stopped.
- To unload a larger quantity, chain the tailgate to allow maximum opening of one foot, trip the tailgate and raise the body to dump excess material. FAILURE TO CHAIN THE GATE AT A MAX OF ONE FOOT OPENING WILL RESULT IN BENDING THE SPREADER.
- Due to the inherent danger of augers, screens are supplied, and they must remain in place while the spreader is in the Dump Body.
- SMITH SPREADERS APPLIES WARNING DECALS, THESE DECALS ARE AFFIXED TO THE MACHINES, BESURE TO MAINTAIN THESE DECALS LIKE THE REST OF WEAR PARTS, SAFETY IS NO ACCIDENT.

# SPREADER INSTALLATION

## SPREADER CHASSIS INSTALLATION:

IF THE TRUCK HAS HAD A "HARDER" SANDER THROUGH THE GATE, THE INSTALLATION WILL BE SIMILAR.

IF THE TRUCK HAS HAD AN EXISTING COAL CHUTE, THE OPENING MUST BE AT LEAST

- 8-1/2" WIDE X 11-1/2" HIGH.

IF THE TRUCK HAS HAD NO COAL DOOR, CUT AN OPENING TO MEET THESE DIMENTIONS:

- 8-1/2" WIDE X 11-1/2" HIGH THAT ALIGNS WITH THE TAILGATE KIT SUPPLIED WITH THE SPREADER.

DRILL HOLES IN THE TAILGATE AND SECURE THE TAILGATE KIT TO THE INNER SURFACE OF THE TAILGATE. FOR OFF SEASON USE OF THE DUMP BODY, SUBSTITUTE A STEEL PLATE TO REPLACE THE TAILGATE KIT.

AFTER INSERTION OF THE MAIN ASSEMBLY, USE THE PINS(PROVIDED) TO SECURE THE DISCHARGE CHUTE AND THE LIFT CYLINDER.

- OPTION:YOUR SPREADER WILL HAVE A DISCHARGE CHUTE HYDRAULIC LIFT CYLINDER (DCHLC) WHICH REQUIRES HYDRAULIC HOSE CONNECTION TO THE LIFT END OF THE DUMP BODY LIFT CYLINDER. THE DCHLC HAS A VENT PLUG ON THE DOWN PORT, ALLOWING THE SPINNER TO DROP DOWN WHEN THE DUMP BODY IS LOWERED.

PRIOR TO OPERATING THE SPREADER, THE SCREENS MUST BE INSTALLED OVER THE AUGER SPREADER. UNDER NO CIRCUMSTANCES SHOULD THE SPREADER BE OPERATED/USED WITHOUT THE SCREENS IN PLACE. THE SUPPLIED SCREENS SET OVER THE TOP OF THE AUGER SPREADER ARE DESIGNED TO FIT MOST DUMP BODIES. THE SCREEENS ARE DESIGNED TO FIT BETWEEN THE BULKHEAD AND TAILGATE, A GAP OF NOT MORE THAN 5" IS ACCEPTABLE.

## Warranty Terms and Conditions:

### PLEASE READ CAREFULLY

Smith Metal Works warrants its manufactured products to be free from defects in material or workmanship for a period of (1) one year from time of purchase. This warranty is limited to the repair or replacement of products failing under normal use and operation of equipment. Prior authorization must be obtained for all warranty claims. You must call and received a warranty authorization number. All replacement parts will be billed to your account. The defective part(s) and a copy of the original paid invoice or bill of sale must be returned to the factory before credit will be given to your account for such. Parts only will be credited. Labor charges are not covered. Any modifications made outside of the Smith Metal Works factory or dealer location voids all warranties.

#### EXCLUSIONS:

1. This warranty is expressly limited to parts replacement and repair and is not transferable. Any expressed warranty not herein provided, and any remedy for breach of contract is excluded and disclaimed. The implied warranties of merchantability and of fitness for any particular purpose are limited to one year from delivery to the original user.
2. Any component or part manufactured by others will carry that manufactures warranty, and in no case will Smith Metal Works of Newark, inc., be liable, either expressed or implied, for warranties in excess of those made by the original manufacturer.
3. Under no circumstances will Smith Metal Works of Newark, Inc., be liable to the purchaser, or any other person, for any incidental or consequential damages. The user assumes liability for all personal injury or property damage resulting from handling, possession, or use of the product.
4. Repairs or modification done by others, or parts from other sources outside the company's factory are not covered by this warranty. Any modification to any unit other than modifications done in the Smith Metal Works of Newark factory setting will void any and all warranties.
5. No agent, employee, or representative of Smith Metal Works of Newark Inc., has any authority to make any affirmation, representation, or warranty concerning Smith Metal Works products, except specifically stated above.

**PLEASE COMPLETE YOUR WARRANTY CARD AND DO NOT FORGET TO MAIL IT IN, AS ALWAYS IF WE DO NOT RECEIVE THIS CARD YOUR WARRANTY WILL NOT BE HONORED. CHECK WITH YOUR DEALER FOR THE LOCATION OF THIS INFORMATION, ALL SMITH SPREADERS ARE SHIPPED FROM OUR FACILITY WITH WARRANTY CARDS ATTACHED.**

# HYDRAULICS

## INSTALLATION OF HYDRAULICS:

Any hydraulic hoses, valves, filters, and the like are installed at our distributor. Any questions regarding the operation of hydraulics or replacement part numbers should be directed to the distributor where this unit was installed.

After supply and return hoses to the spinner and secure to spinner arm with the provided hose clamp P/N 700-23. Attach supply and return hoses to the auger motor.

## INPUT REQUIREMENTS:

The hydraulic motors **may** require a combined minimum of 23 GPM input of oil. Note that if you cannot achieve full width at high auger speeds due to your spinner slowing down, then verify you are getting a full 23GPM from your system.

## OIL SELECTION:

Select a clean. Premium quality industrial, anti-wear oil with a viscosity between 100-200 SSU at operation temperature. Premium oils with viscosity indexes of 95 or above will provide the following temperature ranges:

Industrial Identification Viscosity Grade	Operating Temperature	Viscosity
150 SSU	122°F	100 SSU
	84°F	200 SSU
225 SSU	140°F	100 SSU
	107°F	200 SSU
300 SSU	150°F	100 SSU
	116°F	200 SSU
450 SSU	165°F	100 SSU
	130°F	200 SSU
600 SSU	182°F	100 SSU
	145°F	200 SSU

HYDRAULIC OIL FILTER SHOULD BE CHANGED AFTER THE FIRST 50 HOURS OF USE. UNDER NORMAL CONDITIONS, THE FILTER SHOULD BE CHANGED EVERY 200 HOURS OR PER THE HYDRAULIC UNIT MANUFACTURE'S RECOMMENDATIONS.

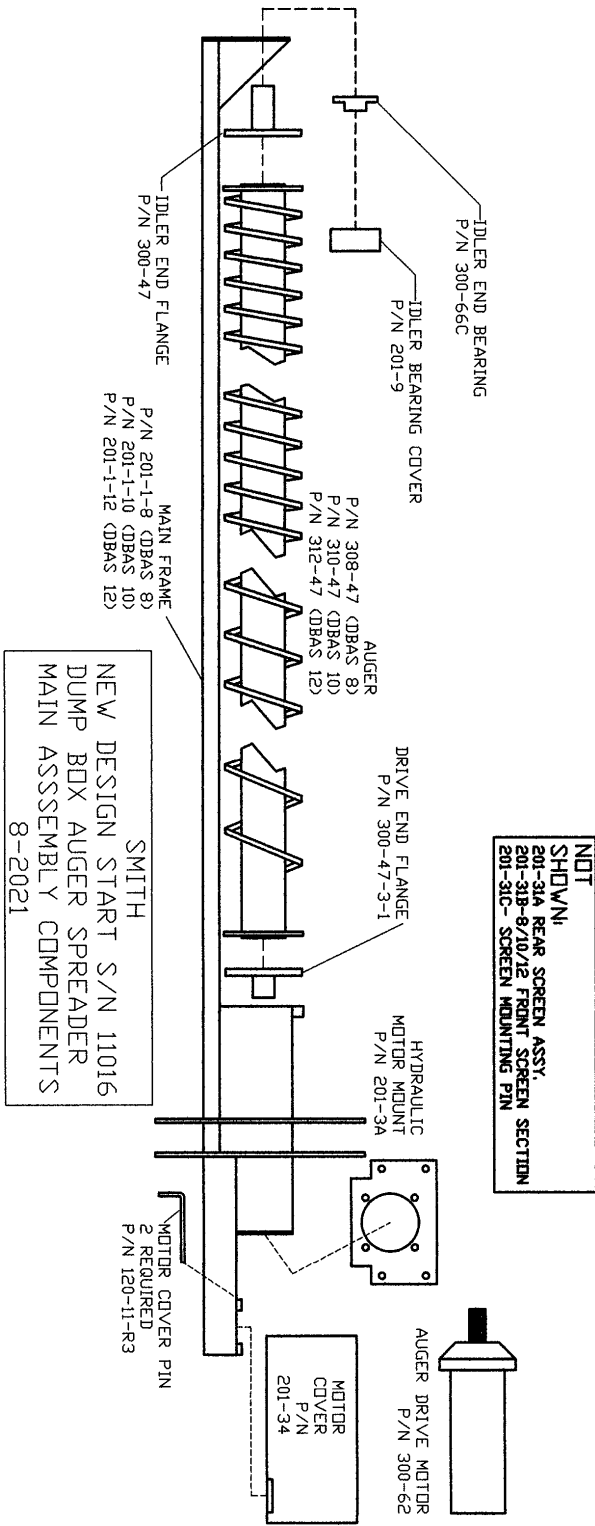
# **PREVENTATIVE AND OFF-SEASON MAINTENANCE**

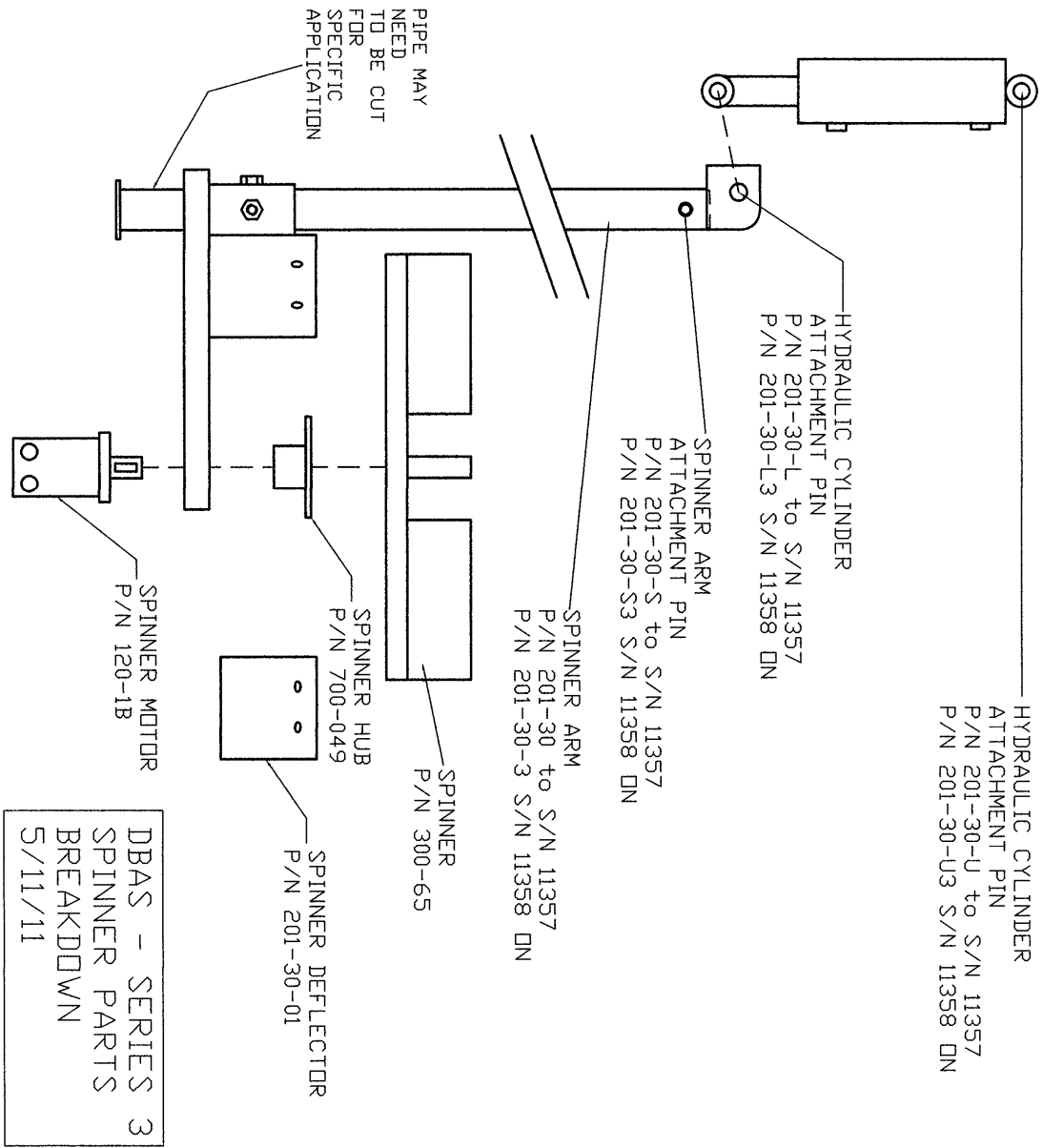
## **Preventative Maintenance:**

- 1. BEARINGS SHOULD BE GREASED ON A REGULAR BASIS. A HIGH-QUALITY GREASE WITH AN OPERATING RANGE OF -30°F TO 250°F SHOULD BE USED. PRIOR TO GREASING, WIPE THE GREASE FITTING AREA CLEAN OF DIRT OR OTHER CONTAMINANTS. JUST ENOUGH GREASE SHOULD BE PUMPED IN TO JUST SHOW A LITTLE GREASE OUT OF THE SEAL.**
- 2. AFTER THE FIRST 20 HOURS OF OPERATION, CHECK TORQUE ON ALL FASTENERS, AS SOME LOOSENING IS POSSIBLE DURING INITIAL USE.**

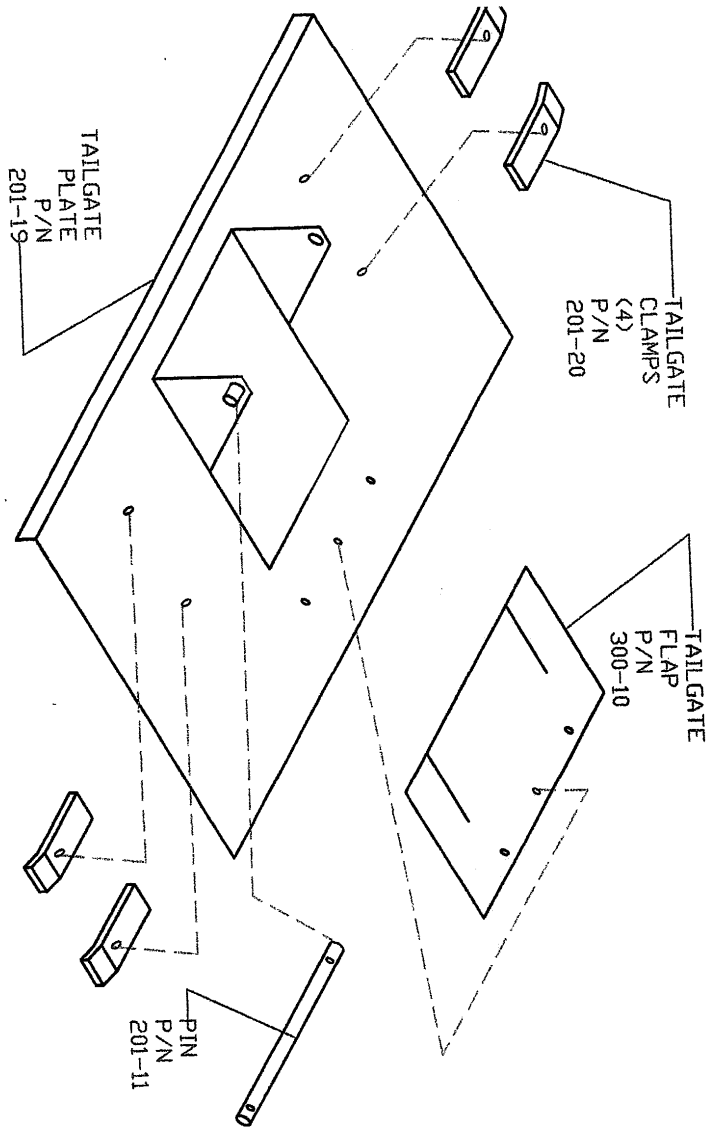
## **Off- Season Storage:**

- 1. PLUG ANY OPEN HYDRAULIC PORTS OR LINES.**
- 2. GREASE ALL BEARINGS PER NORMAL.**
- 3. WASH THE ENTIRE UNIT COMPLETELY.**









SMITH  
 DUMP BOX AUGER SPREADER  
 DOOR KIT PARTS  
 10/2008