

OPERATOR'S MANUAL & PARTS LIST



AGRI-vator MODEL AG144, AG96, & AG72 (12 Ft.) (8 Ft.) (6 Ft.)

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AG72 SER. 2XX thru ____
AG96 SER. 4XX thru ____
AG144 Ser. 2XX thru ____
AGS Ser. 1001 thru ____
Printed in U.S.A.
PBREV0823

INTRODUCTION

Thank you for purchasing an AGRI-vator. This piece of equipment has been carefully engineered and manufactured to provide years of reliable service.

The AGRI-vator is one of the most unique and versatile pieces of equipment on the market today. It is designed for cultivating existing turf and tilling bare soil.

We recommend that you carefully read the owners and operators manual prior to operation. Also ensure that all future operators read this manual and become fully trained before allowing them to use or maintain this equipment. Time spent becoming acquainted with the safe operation, performance, and maintenance of the AGRI-vator will add longer life and greater satisfaction to your new purchase.

This machine is designed with safety in mind. However, if the machine is handled carelessly and not as instructed it can be a dangerous piece of equipment. Observe all safety information in this manual and decals on the equipment.

The illustrations and data used in the manual were current at the time of printing. The manufacturer reserves the right to make changes or add improvements to its products at any time without incurring any obligation to make such changes to products manufactured previously.

REMEMBER SAFETY IS ALWAYS FIRST !
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ATTENTION:

- **Read and understand the instructions and warnings carefully before using this machine.**
- **Read the warranty located on page 22. Fill in the required information on the warranty registration provided and return to the address on the front of this manual. The warranty registration must be returned to validate warranty.**

TABLE OF CONTENTS

TABLE OF CONTENTS	3
SAFETY SYMBOLS	5
SAFETY DECALS	6
OPERATION SAFETY	8
OPERATOR INSTRUCTIONS	9
HITCHING UNIT TO TRACTOR	9
PRE-OPERATION CHECK LIST	10
FIELD OPERATION	10
MAINTENANCE SAFETY	10
ROUTINE MAINTENANCE	11
SEEDER OPERATING INSTRUCTIONS	12
DISENGAGING SEEDER	12
SEEDER CALIBRATION	12
CLEANING THE SEEDER	13
MOVE SEED OUTPUT – FRONT TO REAR	14
AG ROTOR SHAFT SERVICE INSTRUCTIONS	16
DRIVE END DISASSEMBLY	16
PROCEDURE FOR ROTATING THE UNIT (without roller or seeder)	16
ROTOR SHAFT REMOVAL	16
ROTOR SHAFT DISASSEMBLY	17
ROTOR HUB DISASSEMBLY	18
ROTOR HUB RE-ASSEMBLY	18
ROTOR SHAFT INSTALLATION	21
WARRANTY INFORMATION	23
SEED CHART	24
AG MAIN FRAME	25
STAND & HITCH ASSEMBLY	26
AG ROTOR SHAFT - 144	27
AG ROTOR SHAFT – 96	28
AG ROTOR SHAFT - 72	29
AG JACK SHAFT – 144	30
AG JACK SHAFT - 96	31
AG JACK SHAFT - 72	32
GEAR BOX ASSEMBLY	33
DRIVE LINE COMPONENTS	34
DRIVE END ASSEMBLY	35
REAR ROLLER	36
CLEATED ROLLER – AG72	37
CLEATED ROLLER – AG96 & AG144	38
SEEDER - 72	39
SEEDER - 96	41
SEEDER - 144	43
TRAIN (ROLLER) – AG72	45
TRAIN (ROLLER) – AG96 & AG144	46
TRAIN (HOPPER)	47
TRAIN (TOOL BAR)	48
TRAIN (INTERMEDIATE)	49
S	49
FEED DELIVERY AND PLATFORM	50
AGITATOR ASSEMBLY	51
FEED WHEEL ASSEMBLY	52
LAMP ASSEMBLY (AG144 ONLY)	53
MULTI-SPIKE ROLLER, AG72	54
MULTI-SPIKE ROLLER, AG96 & 144	55
MULTI-TINE SHELL	56
AGRI-vator Specifications	BACK

SAFETY SYMBOLS



This is a standard safety alert symbol meaning **ATTENTION ! BECOME ALERT ! YOUR SAFETY IS INVOLVED !**



CAUTION

Indicates hazardous situation, injury may occur, used to alert against carelessness.



WARNING

Indicates potentially hazardous situation. Death or serious injury may occur if proper procedures are not followed.



DANGER

Indicates most hazardous situation. Death or serious injury will occur if proper procedures are not followed.

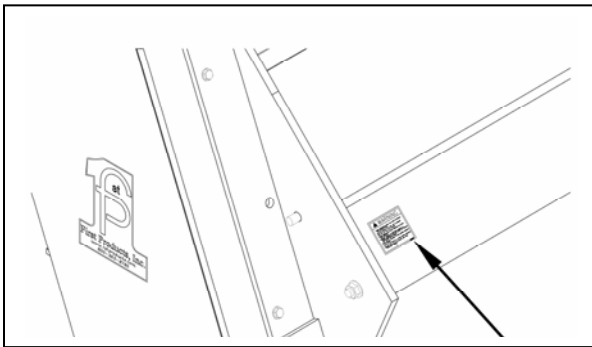
SAFETY DECALS

Your implement comes equipped with all safety labels in place. They were designed to help you safely operate your implement.

1. Read and follow decal directions.
2. Keep all safety decals clean and legible.
3. Replace all damaged or missing decals.
4. Refer to this section for proper decal placement.

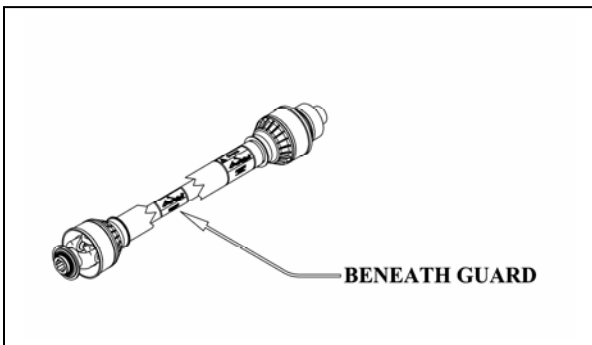
To install new decals:

Clean the area the decal is to be placed. Peel backing from decal. Press firmly on surface being careful not to cause air bubbles under label.



AE50-074

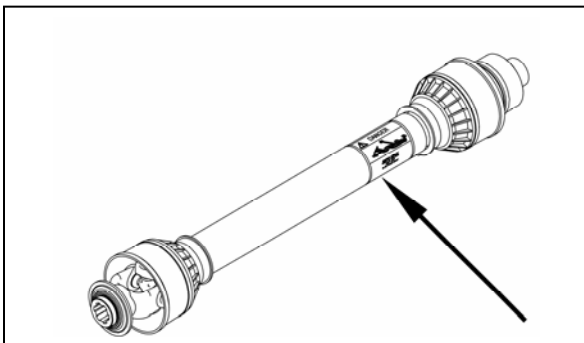
General Warning Decal
Both Sides of Frame



GP55-004

DANGER LABEL

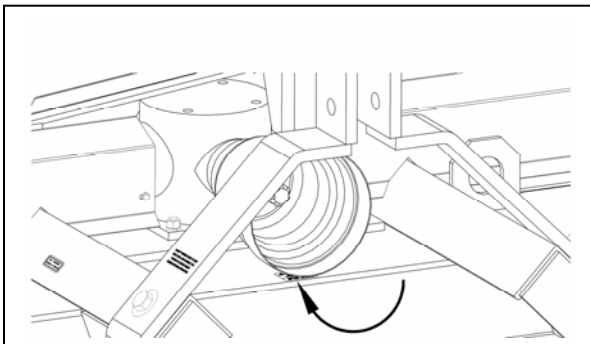
Beneath Guards on Driveline



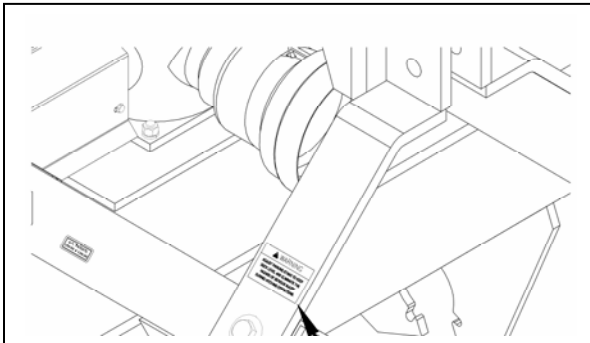
GP55-007

DANGER LABEL
(SHIELD)

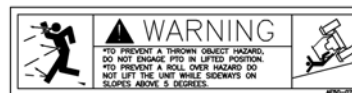
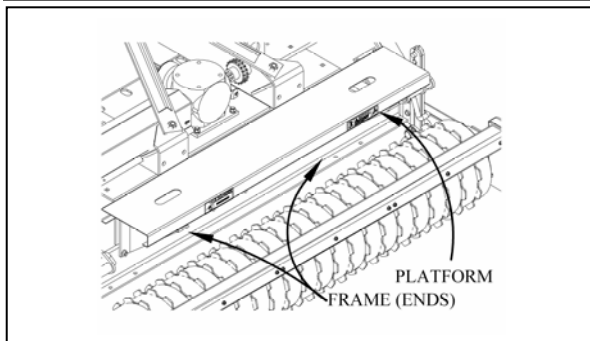
Driveline Shield



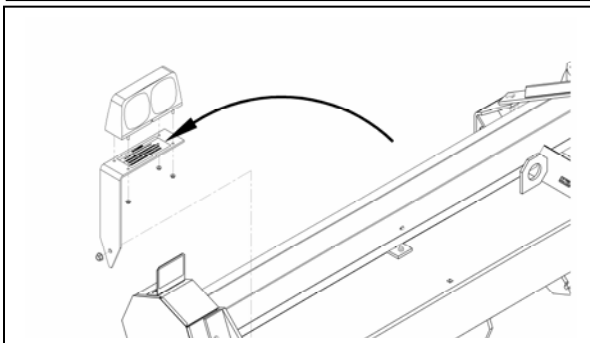
AE50-114
Danger Hazard Decal
Beneath PTO Shield



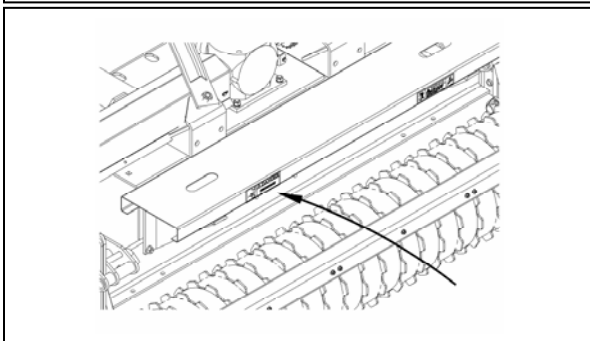
AG50-037
Stand Warning Decal
Hitch Arms



AE50-076
Thrown Object
Hazard Decal
*Back of Frame
(or Seeder Platform)*



AG50-035
Dual Lamp
Assembly Decal
*Lamp Brackets
(12' Unit Only)*



AG50-089
Rider Hazard Decal
Seeder Platform

OPERATION SAFETY

- **Your Safety Is Always First!** Familiarize yourself with the safety symbols and decals on pages 5 and 6.
- All operators should **read and understand the following sections of this manual** prior to adjusting, maintaining, hitching to, or operating the AGRI-vator: **OPERATION SAFETY, OPERATOR INSTRUCTIONS, PRE-OPERATION CHECKS, FIELD OPERATION, MAINTENANCE SAFETY, ROUTINE MAINTENANCE.**
- In addition, remove and read the drive line safety and maintenance manual taped to the drive line shield. After reading the drive line manual, place it inside this manual for reference.
- For the safety and instruction of all operators, keep this manual stored in the tube provided on the AGRI-vator at all times.
- Never attempt to adjust, maintain, or remove debris from this machine while the tractor engine is running.
- After operating, always disengage the power take off (PTO) and switch the engine off prior to dismounting from the tractor or other power source and approaching the unit.
- Prior to starting, always inspect operating area for any hazards such as large rocks, steep slopes, low tree branches or wires. Flag objects difficult to see such as irrigation heads and water meters.
- Instruct all people in the work area to stay clear of the unit.
- Perform all pre-operation checks (page 8) prior to start up.
- Never engage the PTO while the rotors are off the ground. Always disengage the PTO before lifting the unit. High-speed rotors create a flying object hazard when they are lowered to the ground.
- Consult your tractor Operator's Manual regarding operation on slopes. We do not recommend the unit being used on slopes above 15°.
- Use extreme care and maintain moderate ground speed when transporting or operating on slopes, over rough surfaces, or close to trees ditches and fences.
- Only operate during daylight hours or with good artificial light.
- Before operating near or transporting on a public road, check to see that the reflector brackets, warning lamps, turn indicators and tail lamps are properly installed and operating correctly (Model AG144 is equipped with lamps only)
- Adjust parking stand or roller to keep deck level and eliminate the hazard of serious injury during hitching and unhitching operations.

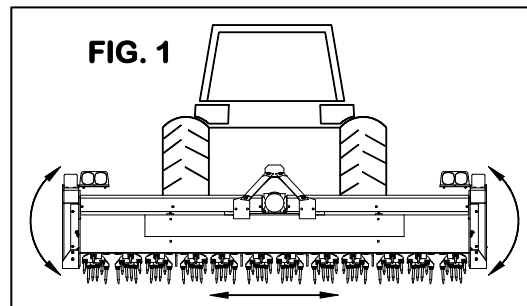
OPERATOR INSTRUCTIONS

HITCHING UNIT TO TRACTOR

- Guide for selecting the tractor size required (without roller/seeder):

AGRI-vator MODEL #	PTO SPEED	CAT HITCH	APPROX. MIN HP	LIFT CAPACITY REQ'D	
				LBS.	DIST BEHIND LIFT PINS
AG144	540	2	80	2600	16"
AG96	540	2	60	1900	16"
AG72	540	1	45	1500	16"

- Familiarize yourself with all of the tractor control functions. Be prepared to stop the tractor movement, PTO operation, and the engine quickly in an emergency.
- Before hitching unit to tractor make adjustments to 3 point hitch system that will allow the lower lift links to float up independently during operation. This will allow the unit to stay in contact with the soil on uneven ground, (See Fig 1). Also, remove or adjust side sway stabilizers to allow the unit to shift sideways at least 2" to either side. This will allow tines to shift the unit sideways when striking heavy rocks, etc and reduce tine breakage.



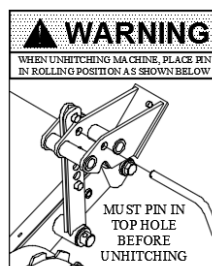
- Connect lower lift links and adjustable top link to unit. Adjust top link to level deck with unit in lowered position.



- Install PTO Drive Line with end stenciled connected to the tractor. Be sure end yokes are locked in place to the tractor and gear box shafts.
- On Model AG144 make wiring harness connection to tractor terminal.

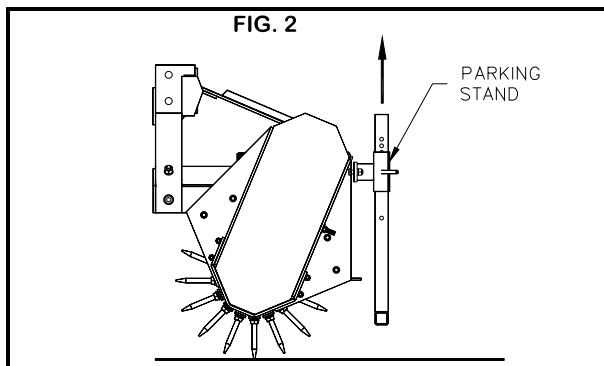
UNHITCHING FROM TRACTOR

- If equipped with Parking stand, lower stand and pin.
- If equipped with roller refer to decal or see below.



PRE-OPERATION CHECK LIST

1. Remove any debris caught in the rotors.
2. Grasp tines on each rotor and check for side-to-side movement. If movement occurs stop frequently during operation and check for increased movement and extreme heat (paint discoloration, smoke, etc) leading to bearing failure. Timely rotor bearing replacement may prevent more expensive damage.
3. Check gearbox oil level before operation and every 200 hours of operation thereafter. (Refer to routine maintenance section.)
4. See that all shields are correctly installed.
5. See that reflector brackets are installed on each end and are clean and in good condition.
6. On Model AG144 check for proper operation of warning lamps, turn indicators and tail lamps.
7. Unless equipped with roller, pin the parking stand in the up position (see Fig. 2).



FIELD OPERATION

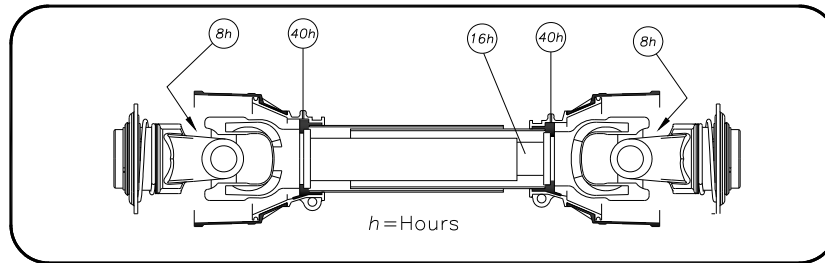
- Do not engage the PTO while the rotors are off the ground. Always disengage the PTO before lifting the unit. High-speed rotors create a flying object hazard when they are lowered to the ground.
- During operation move the tractor lift height control lever to the lowest position. This allows the full weight of the unit to bear on the ground.
- Control the tine depth by adjusting the engine speed relative to the gear selection. Increasing the engine speed and selecting a lower gear increases the tine depth.
- Do not make short turns with the tines engaging the soil.

MAINTENANCE SAFETY

- Never attempt to clean, adjust, lubricate or perform any maintenance on the AGRI-vator while the tractor engine is running.
- **SAFETY BLOCKS** should be used to support the AGRI-vator when in the raised position during service.
- Adjust the parking stand to keep the deck level when unhitching from the tractor.
- When installing tines, performing any rotor shaft service, or removing debris from the rotors, ensure that the rotor shaft does not rotate because a serious pinch injury could occur.

ROUTINE MAINTENANCE

- Check gearbox oil level before first operation and every 200 hours of operation thereafter. With frame level, remove oil level plug on front left side of gearbox using 5/16" allen wrench. If required, add 90w gear oil through level plug until it appears at level plug. Replace plug securely.
- Grease driveline parts after the number hours use as shown in the below illustration.



- After the first two hours of operation tighten all tines to 330-ft. lbs. Check for loose tines daily.
- When replacing lost or worn tines use the 1 1/8" extra deep socket furnished in the extra tine bag (additional sockets are available. Order # AG60T020).
- **CHECK BELT TENSION** every 4 hours of operation for the first 12 hrs. and every 100 hrs. thereafter. Also, tighten belts if shaft hesitation is noticed during operation. Over tightening belts may cause damage to the machine. Be sure to re-install belt shield after servicing.
- Use the applicable parts break down illustration pp.24-50 for maintenance, removal, and assembly instructions.
- The AGRI-vator shaft and rotor bearings are sealed and permanently lubricated requiring no routine maintenance.

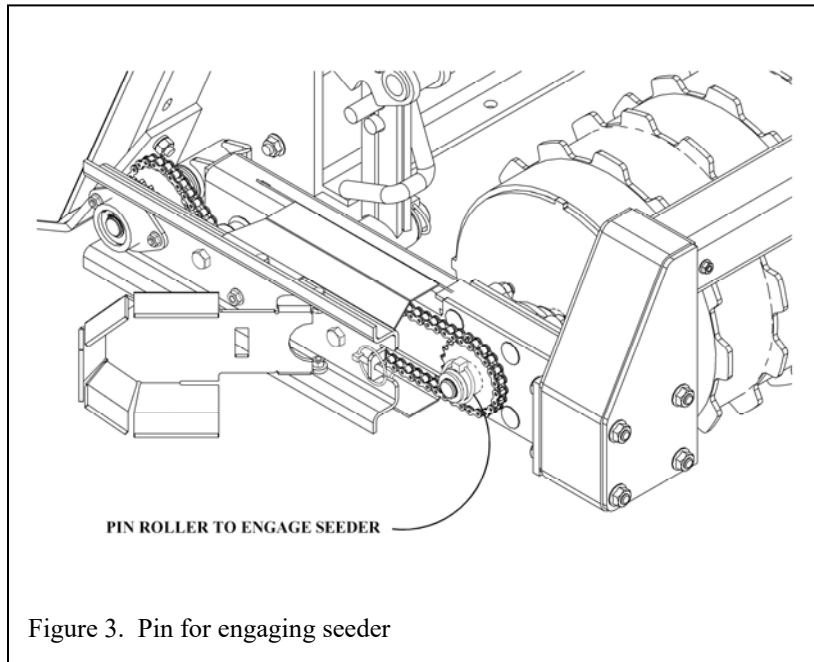


CAUTION

BE SURE ALL SAFETY SHIELDS ARE INSTALLED PRIOR TO RETURNING THIS MACHINE TO SERVICE.

SEEDER OPERATING INSTRUCTIONS

- Check to see if hopper and metering tube has been properly cleaned.
- Check condition of all chains concerning the ground-drive transmission and lubricate accordingly.
- Ensure seeder is engaged by opening the chain cover at the end of the roller, shown below.
- After selecting the proper seed rate and calibrating the seeder, run the Agri-vator approximately 50 feet and check the drive components for any irregularities.



DISENGAGING SEEDER

In the event that seeding is not desired, the seeder can be disengaged by removing the clutch pin indicated above.

SEEDER CALIBRATION

In order to accurately meter seed during operation, the machine must be calibrated properly using the following instructions:

- Consult seed chart inside hopper lid and select a seed. If the desired seed is not found, use a seed of similar size for calibration.
- After selecting a seed, select the desired rate, and note its recommended sprocket combination and metering shaft setting (see page 23 for further explanation).
- Arrange the black sprockets as required, as noted in Fig 4.
- Set the metering shaft using the screw adjustment on the right side of the box as shown in Figures 5a&b (both sides for 12' seeder).
- Pour seed over the first three far right outlets inside the hopper.
- Lift the corresponding seed hoses from the Agri-vator deck and make preparations to catch and weigh seed.

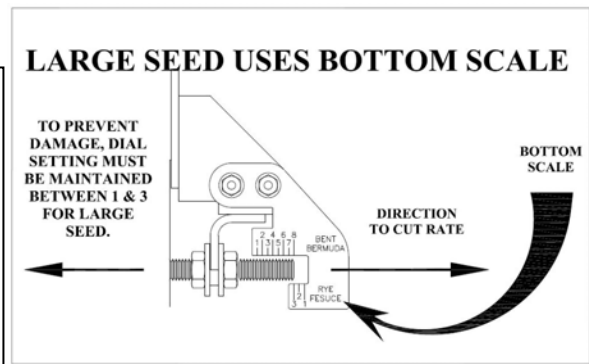
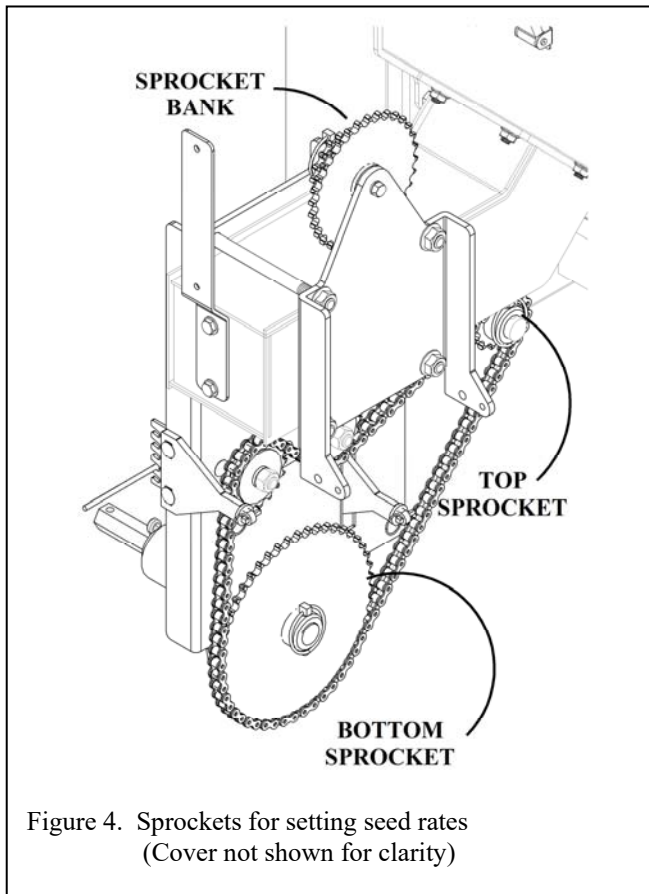


Figure 5a. Rate Adjustment

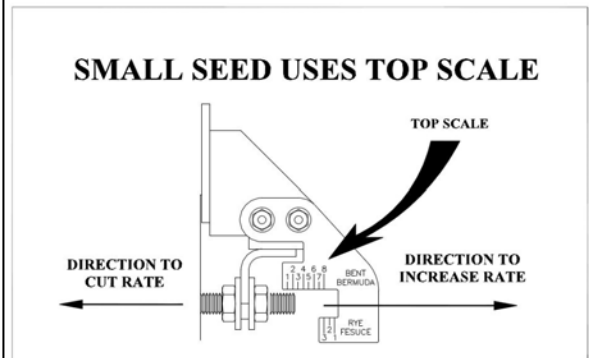


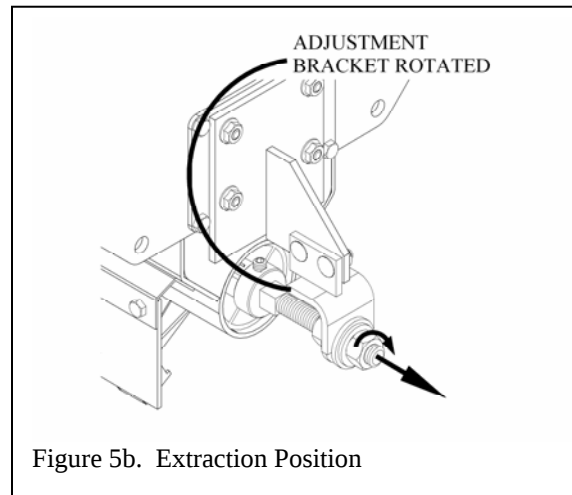
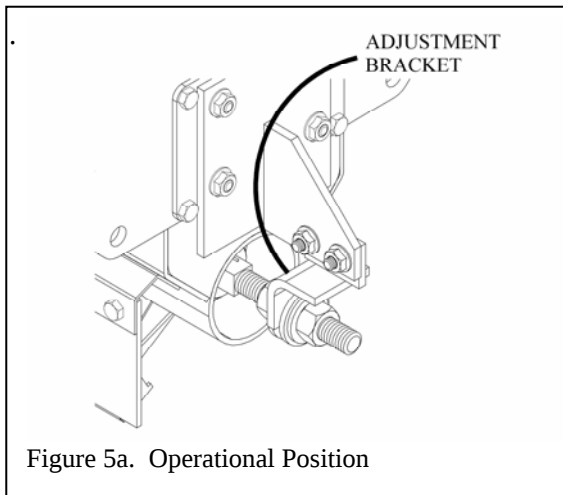
Figure 5b. Rate Adjustment

- **With the seeder lifted in the air, use the hex shaft located on the right end of the cleated-roller shaft to rotate the roller 100 revolutions (7/8 ratchet required):**
IMPORTANT: FOR SMALL SEED ONLY!
FOR THE FIRST 100 REVOLUTIONS, THE SMALL SEED SLOWLY FILLS THE FLUTES NOT BEING USED DURING THE METERING PROCESS. AFTER THE FLUTES ARE FULL, OR PRIMED, THE CALIBRATION PROCESS CAN CONTINUE.
- **After priming seeder, empty the seed collected back into the hopper and prepare for further calibration. Rotate the roller the indicated number of times:**
 46 revolutions for 72" seeder
 34 revolutions for 96" seeder
 23 revolutions for 144" seeder
- Weigh the seed collected (convert to pounds if necessary – note: 16 oz per pound)
 - o Divide weight by three for average seed rate per spout
 - o Multiply by number of hoses (12, 16, or 24) on seeder for total average rate
 - o **Weight is Pounds/1000 ft² (Multiply by 43.56 for Pounds/Acre)**
- For making slight adjustments, the metering shaft can be adjusted to increase or decrease the rate. Figure 5 illustrates the direction to move the metering shaft in order to adjust the rate.
IMPORTANT: ADJUSTMENTS FOR LARGE AND SMALL SEED ARE DIFFERENT. PAY ATTENTION TO FIGURES 5a & b.
- Once the adjustments have been made, repeat previous steps until desired rate is achieved.

CLEANING THE SEEDER

WARNING: After every job (or when changing seed varieties), it is recommended that the operator perform the following services to avoid seed cross-contamination and to ensure a long, efficient life for the seeder:

- After seeding, make preparation to catch any excess seed left in the box.
- Use the adjustment mechanism on the right side of the box to extract the Feed Wheel shaft:
 - rotate hex nut until shaft bottoms out (Figure 5a)
 - rotate bracket in order to extract shaft further (Figure 5b)
 - remove bracket completely and pull shaft out by hand (if shaft still too tight, used wrench on square shaft to rotate shaft while pulling)
- Use air or water to clean hopper, metering tube, and flutes.
- After allowing time to dry, reinsert shaft into metering tube. **Pay attention** to the orientation of the **square hole** in the spindle shaft where the Feed Wheel shaft is inserted!
- Refasten the adjustment bracket into place. Make sure it is in the operational position, 5a.



MOVE SEED OUTPUT – FRONT TO REAR

Since all seeders ship from factory set for distributing seed in front of the rotors, the following instructions will explain how to move the hopper in order to disperse seed behind the rotors.

- With the machine on the ground, remove all seed hoses and save the clamps for later assembly.
- Remove the seed funnels from the hopper and refasten them facing the rear of the seeder as shown in Figure 6.
- Remove chains and covers connecting the hopper to the cleated roller, Figure 7. In order to remove chain, the train will have to be loosened (4 bolts) and pushed up the tool bar.
- Use a hoist to hold the hopper in the air while unfastening the extension mounts from the Agri-vator deck and rotating them rearward. After refastening, the hopper should be 6" behind its original position, Figure 8.
- Reconnect hopper and roller with chain using extra links provided for procedure.
- Fasten chain cover to machine.
- Using hose clamps to secure new (longer) hoses to hopper.
- Route hoses down back of machine and into cascade bar.

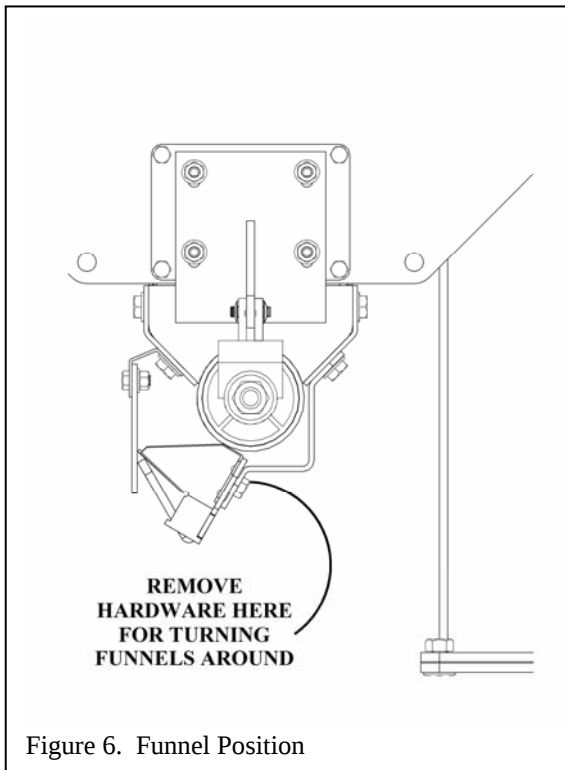


Figure 6. Funnel Position

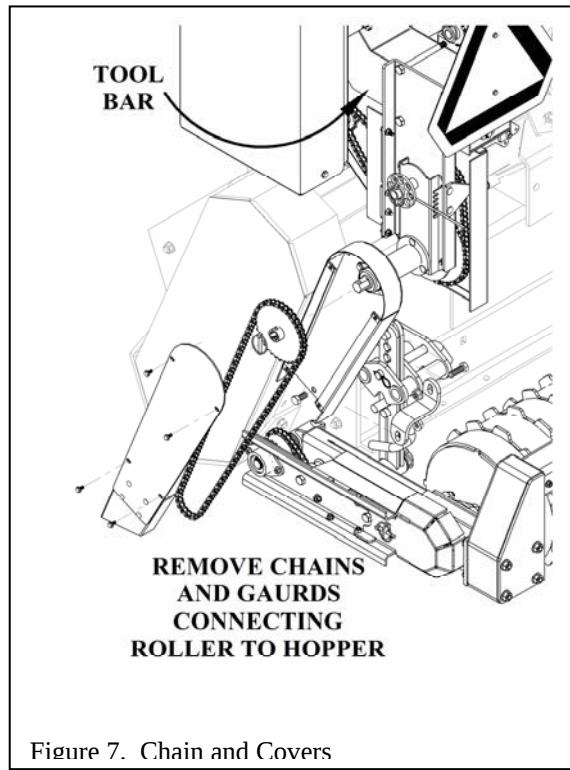


Figure 7. Chain and Covers

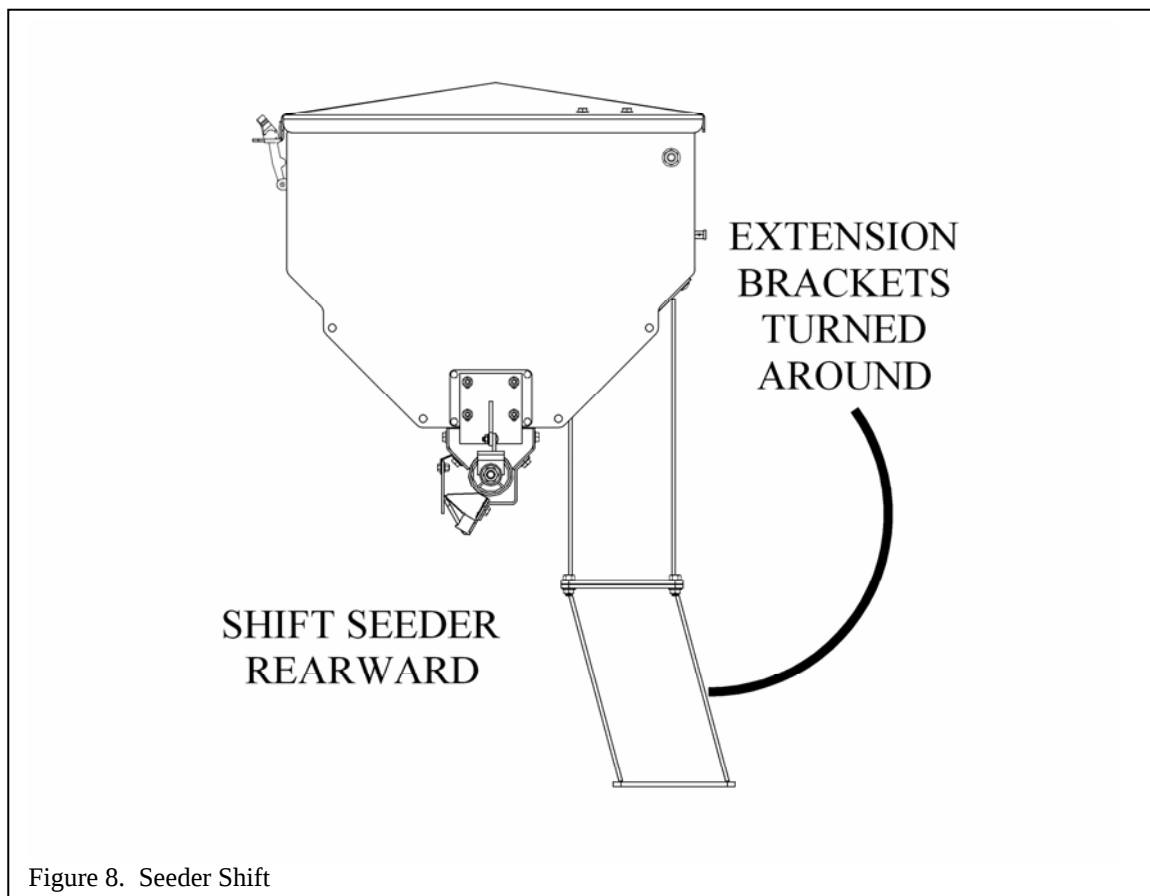


Figure 8. Seeder Shift

AG ROTOR SHAFT SERVICE INSTRUCTIONS

(Clean the unit thoroughly with a pressure washer)

DRIVE END DISASSEMBLY

1. Remove Belt Cover and Skid Shoe per side of shaft removal (see page 34 in parts section).
2. Loosen Belt Idler & remove Belts.

PROCEDURE FOR ROTATING THE UNIT (without seeder)



WARNING: STAND CLEAR OF UNIT AS IT ROTATES.

1. Attach chains to lower lift pins and connect hoist to center as shown (Fig. 9).
2. Lift machine high enough to move chains from lower lift pins to rotor shaft using jack stands to hold the machine during transition (Fig. 10).
3. With chains secure to rotor shafts, slowly lift machine, move jack stand away, and stand clear as machine rotates.
4. With machine upside-down, slowly lower machine to ground as shown below and use hoist to remove and install each rotor shaft.

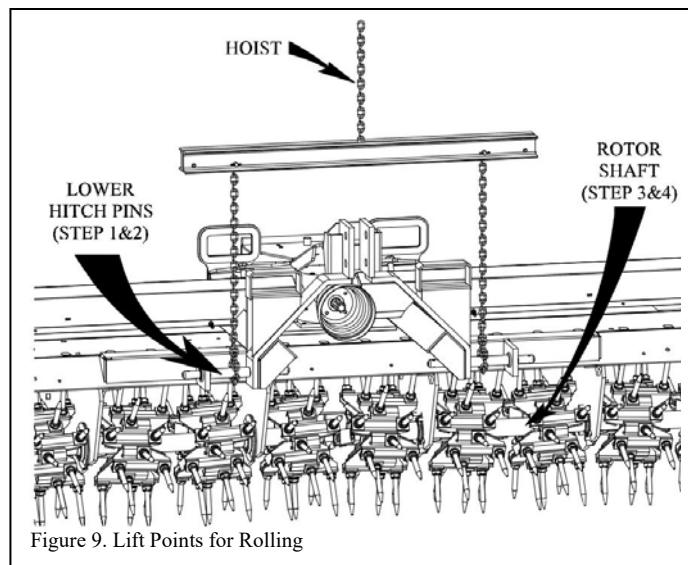


Figure 9. Lift Points for Rolling

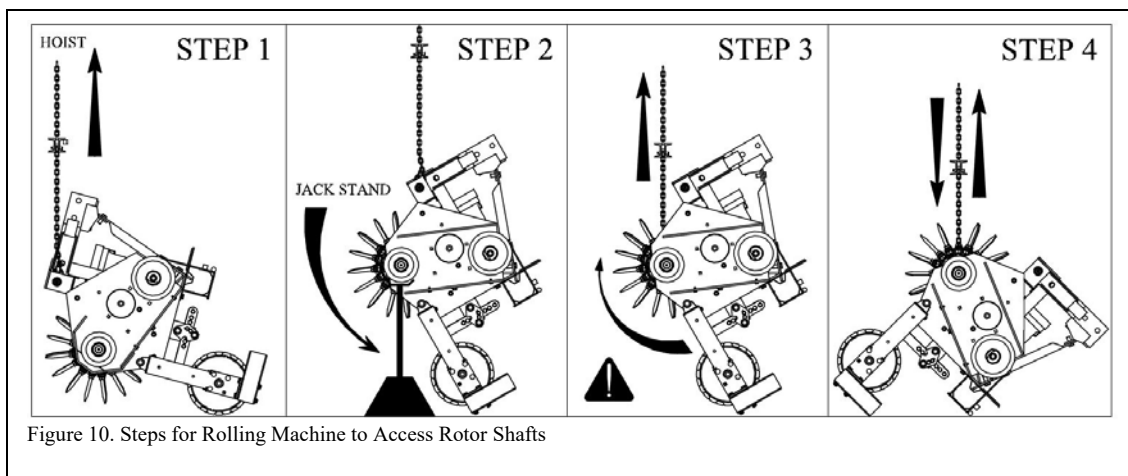


Figure 10. Steps for Rolling Machine to Access Rotor Shafts

ROTOR SHAFT REMOVAL

1. Hook the hoist to the rotor channels of the rotor shaft to be serviced (see Fig 21).
2. While lightly supporting the shaft with hoist, remove the $\frac{1}{2}$ " carriage bolts and nuts fastening rotor shaft to support plates.
3. As the shaft assembly is being removed from the bearing supports, it is necessary to pull the rotor shaft pulley away from the end plate to allow the $\frac{1}{2}$ " carriage bolts in bearing flanges to clear.
4. With rotor shaft extracted, examine support plates and check for damage. If rotor shaft damaged extended to the support plates, replacement is highly recommended.
5. **IMPORTANT:** It is important to check measurements between bearing support plates before re-installing repaired rotor shaft. Using Figures 11 through 13, measure machine and contact First Products sales representative if measurements exceed what is shown below (tolerance $\pm 1/32$ "). Proper shims will be supplied by First Products to allow for proper bearing alignment and shaft installation.

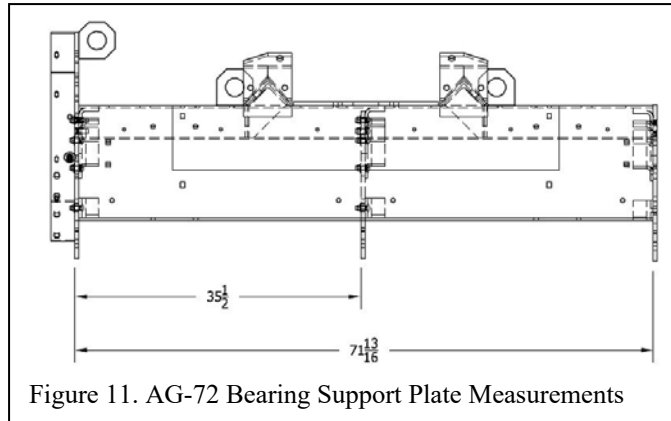


Figure 11. AG-72 Bearing Support Plate Measurements

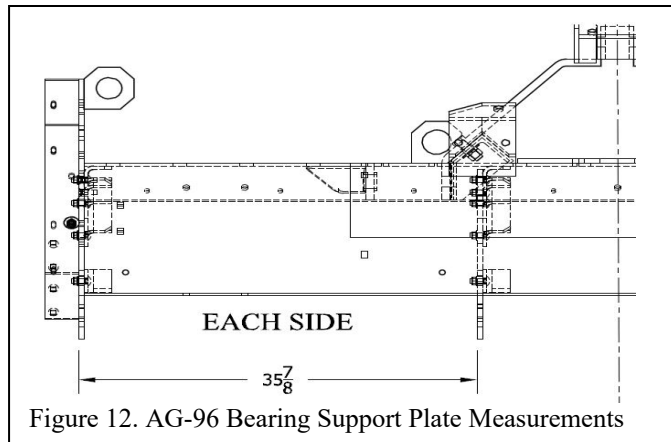


Figure 12. AG-96 Bearing Support Plate Measurements

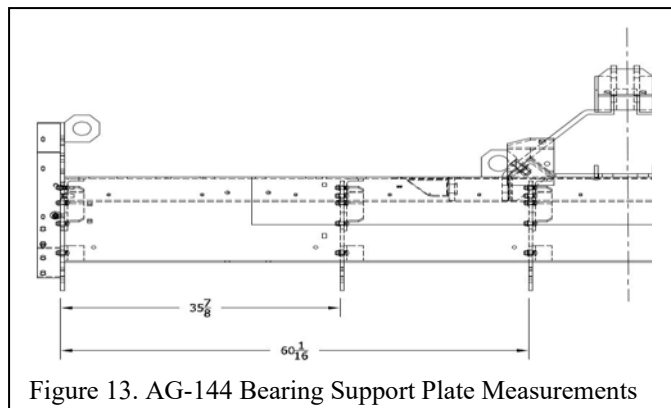
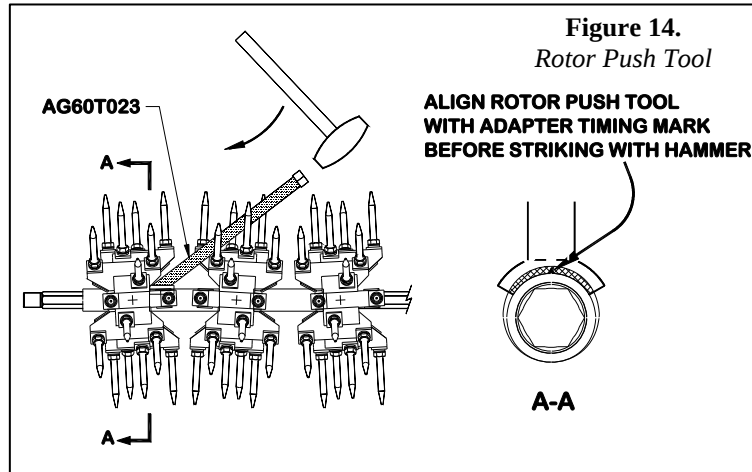


Figure 13. AG-144 Bearing Support Plate Measurements

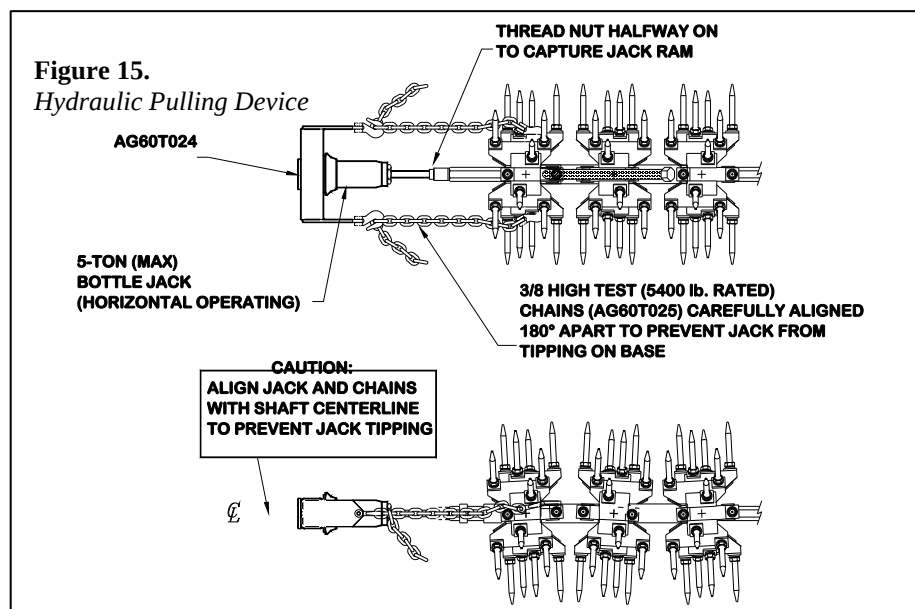
ROTOR SHAFT DISASSEMBLY

1. Remove the 1-5/8 hex nut and lock washer from the shaft end nearest the damaged component. (2-7/16" wrench size required). Use a 3/4" or 1" impact wrench on the nut you need to remove while holding the opposite end nut.
2. Clean and inspect parts as they are removed and set aside in their order of removal to simplify re-assembly.
3. Use a gear puller, pry bars and hammer as required to dislodge and slip the drive pulley and bearing off shaft drive end if damaged component is nearest that end.

4. **IMPORTANT:** Use wire brush or fine sand paper and a safe solvent to clean the shaft of rust and dirt prior to removing each rotor assembly. Each rotor bearing has two separate cone assemblies with ground faces that are pressed together in a tight shaft assembly. When dislodging the rotor assembly for removal by applying force only on the rotor weldment, the cone assembly on the trailing side will likely remain seized to the hex shaft and spacer. This forced separation will bend the bearing's internal grease seal on the trailing side and allow foreign material to fall between the cones and contaminate the bearing grease. To prevent this, use the Rotor Push Tool (AG60T023) against the widest exposed face of the trailing cone adapter while force is applied to the rotor weldment to dislodge it (see Fig. 14). After forcing the rotor assembly about 4", slowly slide it off the cleaned length of shaft.



5. If the Rotor Assembly to be removed has a failed bearing, all of the bearing components will be scrapped. In rare cases of catastrophic bearing failure where there is evidence of extreme heat, the cone assemblies may be very tight on the hex shaft. A hydraulic pulling device is available from First Products for those extreme conditions (see Fig. 15).



ROTOR HUB DISASSEMBLY

1. Puncture and pry out the external seals from both sides (Fig. 16).
2. Remove the snap rings on both sides (inspect for reuse).
3. Press failed bearing and adapter assembly out.
4. Inspect rotor hub for damage to bore, snap ring grooves and external seal seat.

ROTOR HUB RE-ASSEMBLY

(keep all components clean to prevent bearing contamination)

1. Install internal snap ring in one side of rotor hub. **Be sure snap rings expand full depth into grooves.**
2. Press new bearing and adapter assembly down tight against snap ring (Fig. 17a) using prescribed press tool, AG60T031.
If bearing is loose in hub the rotor should be replaced.
3. Install snap ring in other side.
4. Apply at least a 1/2" Dia. ribbon of general-purpose grease above the snap ring 360° around the bearing adapter OD on both sides of the rotor hub (Fig. 17b).
5. Press the seals **with the lips out** in both sides of the rotor using the Press Tool, AG60T031 (Fig. 17b). Wipe off excess grease. Be sure seals are not bent or cut and are seated firmly. **If the seals are not tight, use a hammer and punch to stake the hub faces at about 90° intervals.**

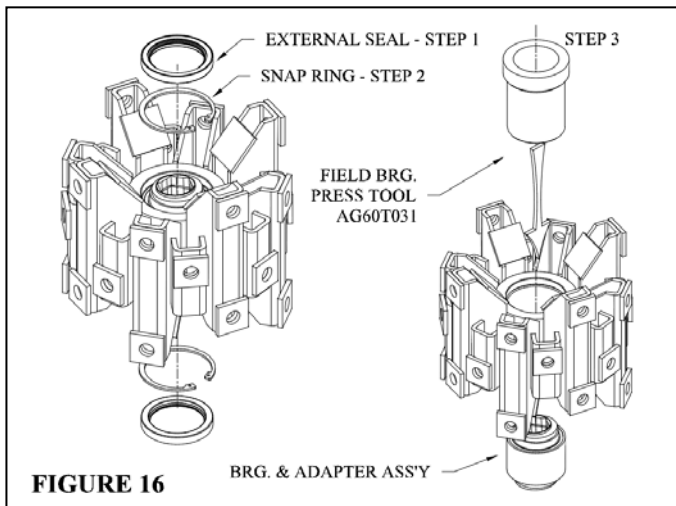


FIGURE 16

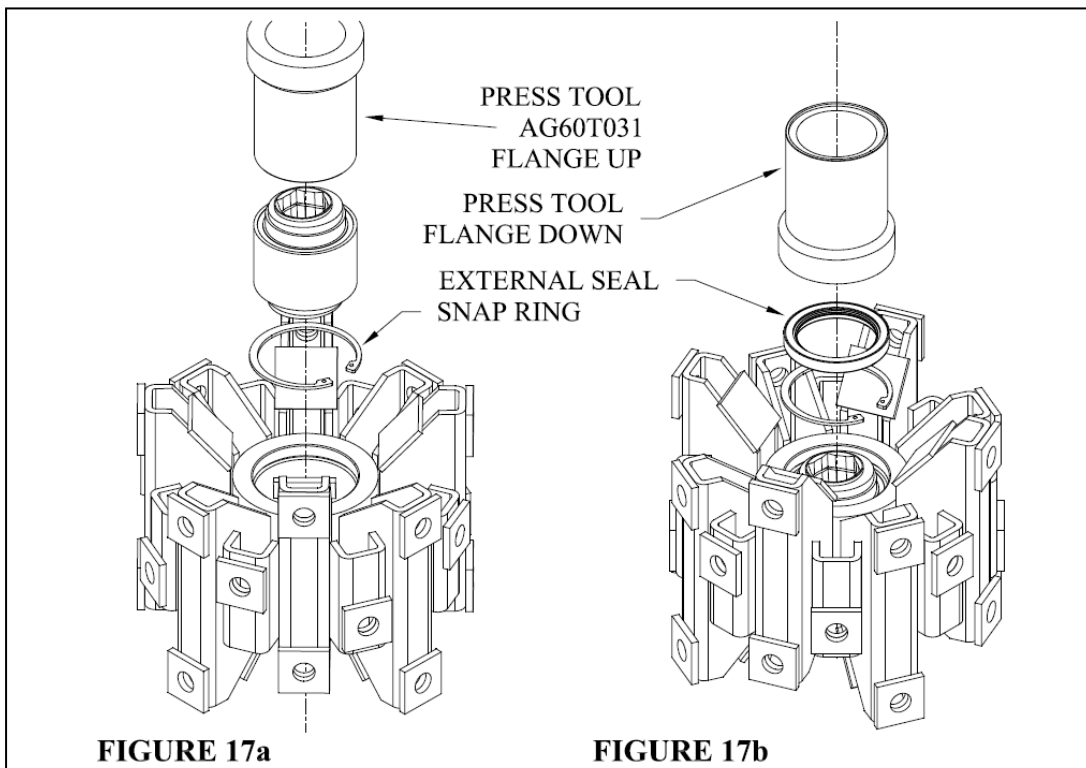


FIGURE 17a

FIGURE 17b

ROTOR SHAFT RE-ASSEMBLY

(Read this section thoroughly before beginning)

CAUTION: IF THE BEARING ADAPTERS ARE NOT PRECISELY TIMED 180 DEGREES APART IN EACH ROTOR AND ALIGNED BETWEEN ROTORS, SERIOUS DAMAGE WILL RESULT.

1. Rotate the adapters in each rotor so the timing marks (See Figures 18, 19 & 20) are phased 180 degrees apart with hex bores aligned.
2. Use marker pen to assist with aligning timing marks between rotors. Mark two rotor shaft flats 180 degrees apart next to the threaded end (See Figure 19). The marked flats must align with the timing marks on any rotors not removed during servicing.

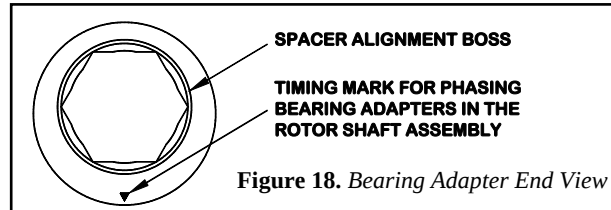
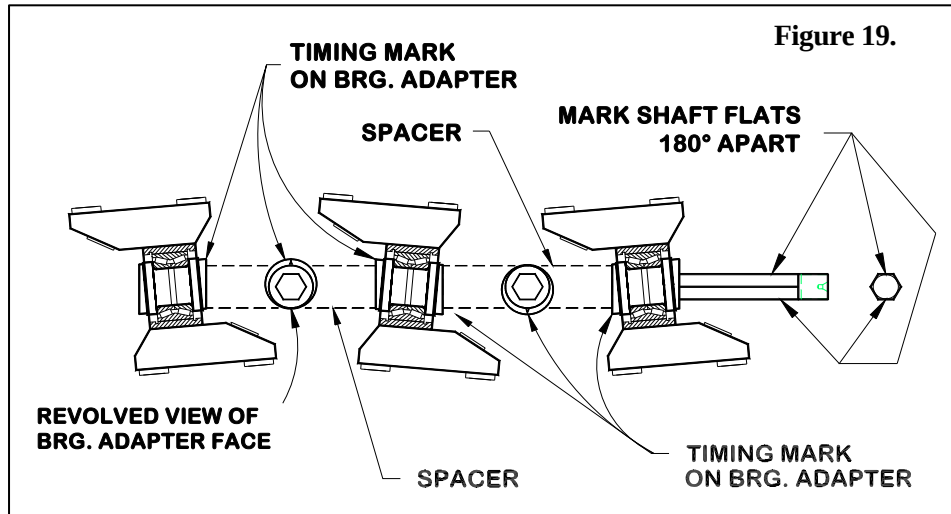


Figure 18. Bearing Adapter End View



3. Install the required components in the sequence shown in Figure 20a, b, & c, double-checking the timing mark locations and spacer lengths (see following table) as each rotor is installed.

SPACER	LENGTH	PART NO.
A	3-11/16"	AG24-002
B	7-55/64"	AG24-003
C	2-51/64"	AG24-005
D	1-1/64"	AG24-007
E	49/64"	AG24-014

CAUTION: CLEAN THE ROTOR SHAFT THOROUGHLY, REMOVING ANY BURRS THAT WOULD KEEP THE ROTOR ASSEMBLIES FROM SLIDING ON FREELY. IF A BEARING ADAPTER JAMS, THE INTERNAL BEARING SEAL COULD BE FORCED OUT AND IT IS NOT REPLACEABLE. AFTER EACH COMPONENT IS PUT IN PLACE, THEN SLIDE IT BACK AWAY TO EXPOSE THE HEX SHAFT IT COVERED. BRUSH REGULAR GRADE, COPPER BASED "NEVER SEEZ®" ON THE EXPOSED SHAFT TO MINIMIZE RUST AND CORROSION.

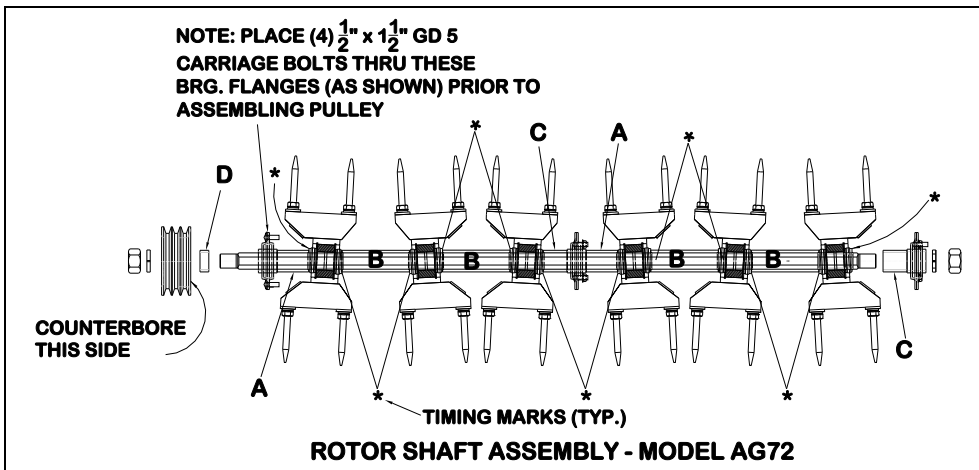


Figure 20a.

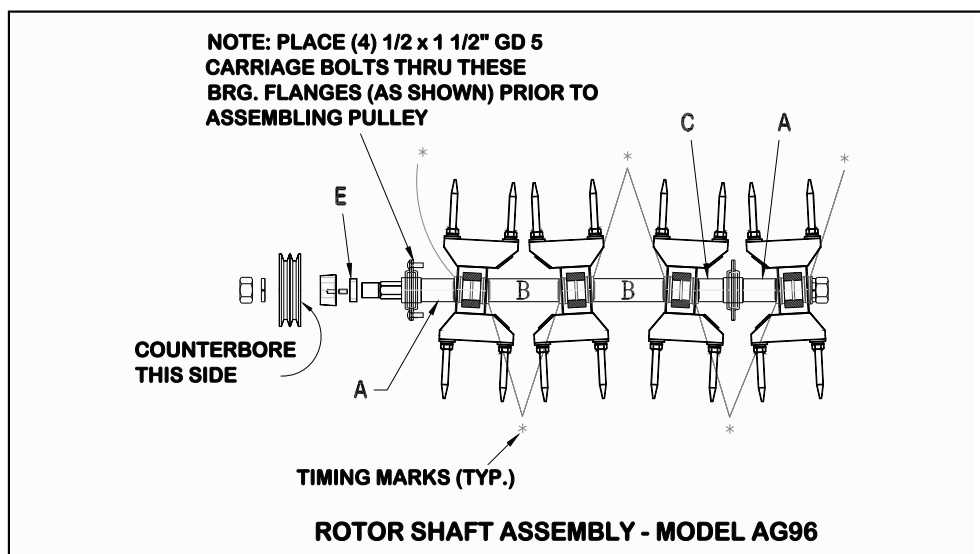


Figure 20b.

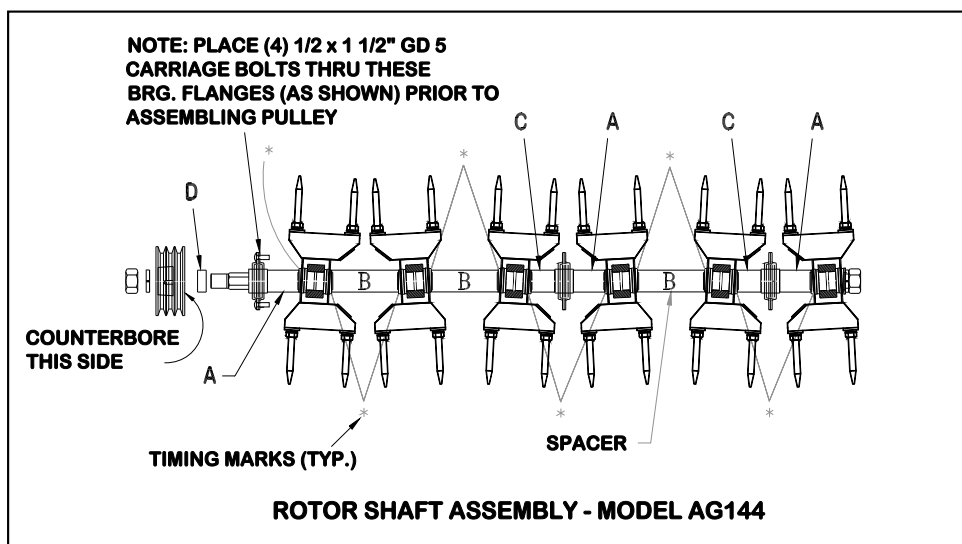


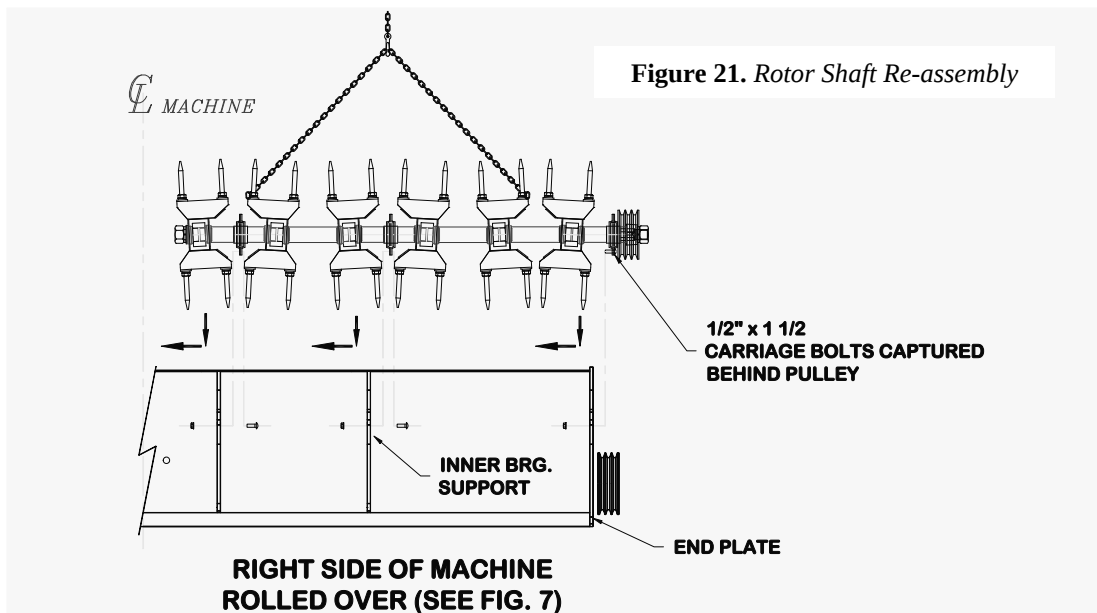
Figure 20c.

NOTE: THE SPACERS MUST BE ACCURATELY ALIGNED AND FULLY SEATED OVER THE SPACER ALIGNMENT BOSES (SEE FIG 18.) ON ALL BEARING ADAPTERS BEFORE TIGHTENING. DO NOT FORGET TO PLACE THE BEARING STAMPINGS ON EACH OF THE SHAFT BEARINGS DURING REASSEMBLY. ALSO, THE 1/2" CARRIAGE BOLTS SHOULD BE PLACED IN THE BEARING STAMPINGS ON THE DRIVE END OF THE SHAFT BEFORE THE PULLEY IS REPLACED.

4. Replace the 1-5/8" hex nut and rotate each rotor occasionally as the nut is torqued to 1000 ft-lbs. If any rotor locks up, the bearing adapters in the rotor are probably not phased 180 degrees apart or the spacers are not fully seated.

ROTOR SHAFT INSTALLATION

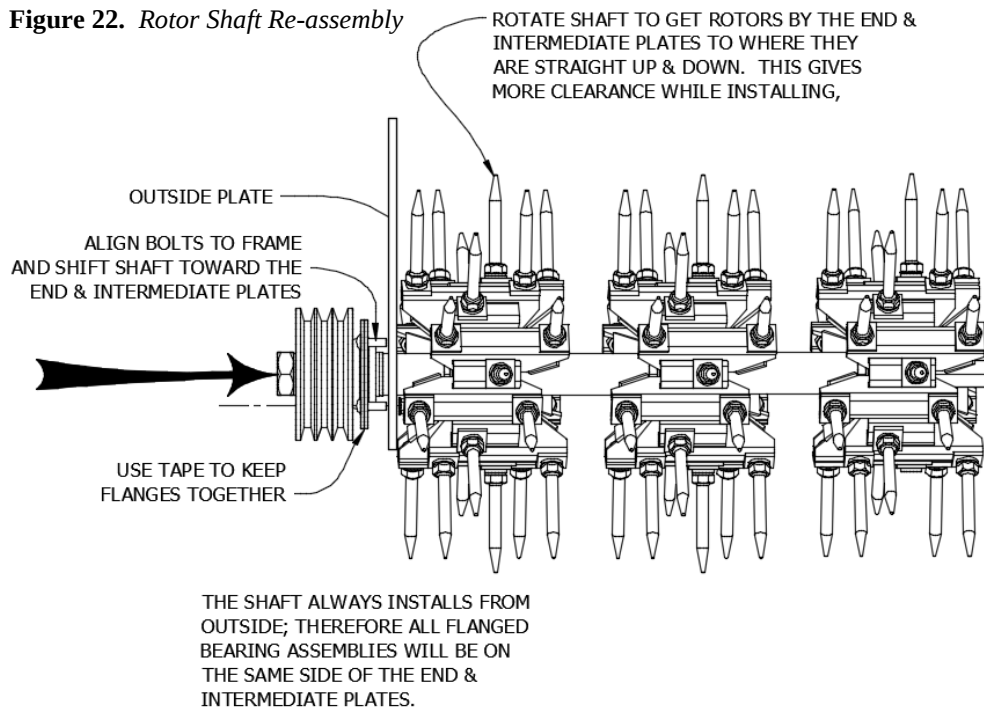
1. Before lowering shaft assembly into frame, rotate shaft to where the rotors will be straight up and down to allow more clearance between the rotors and end and intermediate plates. (see Figure 22)
2. Note that as the shaft assembly is carefully lowered down into the frame with bearing flanges



held together, it is necessary to shift the shaft assembly away from the machine centerline. This allows the endplate to pass the carriage bolts sticking through both bearing flanges next to the pulley (Fig. 22).

3. When the carriage bolt holes and the bearing flanges align with the frame ends, shift the shaft assembly towards the machine centerline to assemble nuts on carriage bolts.
4. Install bolts and nuts into the inner bearing support(s) and the end plate being careful to align carriage bolt shoulders with the square holes in bearing flanges (hand tighten).
5. Tighten all bearing flange bolts 80-85 Ft-Lbs.

Figure 22. Rotor Shaft Re-assembly



6. Hook bridle chain into center lift eyes (Fig. 9) and lift back into upright position.
7. Install parking stand and tighten bolts 100-110 Ft. Lbs. Then lower machine to rest on stand.
8. Install Skid Shoe and tighten bolts 50-55 Ft. Lbs.
9. Install and tighten drive belts. Tighten both bolts in belt idler bracket 80-85 Ft. Lbs.
10. Install Belt Cover and tighten bolts 8-12 Ft. Lbs.

WARRANTY INFORMATION

ONE YEAR LIMITED WARRANTY

FIRST PRODUCTS INC. WARRANTS THIS PRODUCT TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWELVE MONTHS FROM THE ORIGINAL DELIVERY DATE. THIS WARRANTY DOES NOT COVER PARTS CAUSED TO BE DEFICIENT DUE TO NORMAL WEAR, MISUSE, ACCIDENTS, OR LACK OF PROPER MAINTENANCE.

ANY PARTS THOUGHT TO BE DEFECTIVE MUST BE RETURNED TO THE DEALER/DISTRIBUTOR FOR WARRANTY CONSIDERATION JOINTLY WITH FACTORY REPRESENTATIVES. A RETURN AUTHORIZATION NUMBER MUST BE OBTAINED AND CLEARLY MARKED ON ALL PACKAGES OF PARTS REQUIRING RETURN TO THE FACTORY.

THE OBLIGATION OF FIRST PRODUCTS INC. UNDER THIS WARRANTY SHALL BE EXCLUSIVELY LIMITED TO REPLACEMENT OF PARTS DETERMINED TO BE DEFECTIVE BY FIRST PRODUCTS INC. WITH FREIGHT PREPAID. IN NO EVENT SHALL FIRST PRODUCTS INC. BE LIABLE FOR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THIS PRODUCT.

FIRST PRODUCTS INC. RESERVES THE RIGHT TO MAKE CHANGES OR ADD IMPROVEMENTS TO ITS PRODUCTS AT ANY TIME WITHOUT OBLIGATION TO MAKE SUCH CHANGES OR IMPROVEMENTS ON PRODUCTS SOLD PREVIOUSLY.

WARRANTY CLAIMS ARE PAID USING A JOB STANDARD (AUTHORIZING MAN HOURS) USING THE APPROPRIATE TIME FRAME ALLOWED FOR EACH PART REPLACED OR LABOR FUNCTIONS PERFORMED. THIS JOB STANDARD LIMITS THE MAN HOURS AUTHORIZED BY TASK. IT DOES NOT SET A SPECIFIC HOURLY RATE BUT LIMITS THE AUTHORIZED MAN HOURS THAT WILL BE PAID BY EACH TASK. MILEAGE IS NOT PAID.

FIRST PRODUCTS INC.

WARRANTY REGISTRATION CARD

WARRANTY VOID

IF THIS CARD IS NOT ON FILE AT FIRST PRODUCTS INC.

DEALER: COMPLETE THIS CARD AND RETURN WITHIN 30 DAYS OF DELIVERY.

THE MACHINE WAS SET UP AND INSPECTED BY DEALER.

OWNERS & OPERATORS MANUAL PROVIDED TO THE CUSTOMER WITH INSTRUCTIONS
TO READ AND UNDERSTAND THE MANUAL PRIOR TO OPERATION.

DEALER NAME _____

NAME OF SALESMAN _____

DATE OF SALE _____

MODEL NUMBER _____ SERIAL NUMBER _____

CUSTOMER/NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

ATTACHMENTS: SEEDER ☐ RAKE ☐
ROLLER ☐ BRUSH ☐

UNIT TO BE USED IN WHAT APPLICATION (CHECK ALL THAT APPLY)

CITY/COUNTY ☐ SPORTS FIELD ☐
GOLF COURSE ☐ CEMETERY ☐
COMMERCIAL LANDSCAPE ☐ RENTAL ☐
TURF/SOD FARM. ☐

PLEASE HELP US DETERMINE THE BEST WAY TO ADVERTISE OUR PRODUCTS AND BRIEFLY
EXPLAIN WHERE YOU HEARD ABOUT THIS EQUIPMENT:

RETURN THIS PORTION

Warranty card can be mailed removing this page, Emailed to sales@1stproducts.com or Faxed to 229-382-0506

CUSTOMER'S RECORD

Model Number _____

Serial Number _____

Date Purchased _____

Dealer Name _____

Address _____

Dealer Phone Number _____

FIRST PRODUCTS INC.
1-800-363-8780

E-mail: sales@1stproducts.com

**AFTER COMPLETING, REMOVE
MANUFACTURERS CARD,
FOLD, STAPLE CORNERS,
STAMP & MAIL.**

PLACE
STAMP
HERE

**FIRST PRODUCTS INC.
164 OAKRIDGE CHURCH RD.
TIFTON, GA 31794**

SEED CHART

SEEDER CALIBRATION

STEP 1: SELECT SEED/SETTINGS

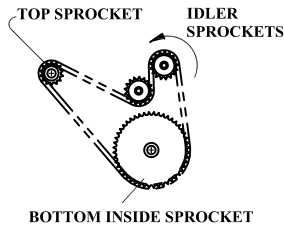
- A: SELECT DESIRED SEED RATE, NOTE THE TOP & BOTTOM SPROCKET COMBINATION
B: OBSERVE THE NUMBER SETTING INDICATED AND ADJUST AS NECESSARY AS THE EXAMPLE SHOWS BELOW.

RYEGRASS/BUEGRASS/FESCUE	
SPROCKETS	SETTING
TOP	14T 17T 14T 17T 32T 17T 48T
BOTTOM	48T 48T 32T 32T 48T 14T 14T
SEED RATE	
LB / ACRE	300 250 200 165 130 70 25
LB / 1000 FT	6.7 5.5 4.5 3.7 2.9 1.6 0.6
Kg / 100 m ²	3.36 2.80 2.24 1.85 1.46 0.78 0.28

EXAMPLE:
70 LB/ACRE OF RYE GRASS:
THE TOP/BOTTOM SPROCKET IS 17/14
THE EDGE OF THE METERING SHAFT
MUST LINE UP WITH THE NUMBER 8.

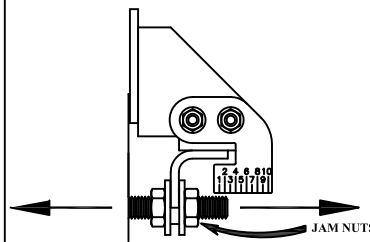
STEP 2: ARRANGE SPROCKETS

- A) LOOSEN CHAIN IDLER FROM BEHIND COVER
B) USING BLACK SPROCKETS PROVIDED, ARRANGE AS DIRECTED FROM CHART
C) TIGHTEN CHAIN IDLER IN DIRECTION SHOWN



STEP 3: SET METERING SHAFT

- A) OBSERVE RIGHT END OF METERING SHAFT (BELOW)
B) LOOSEN JAM NUTS
C) USE JAM NUTS TO POSITION AS DESIRED
D) TIGHTEN JAM NUTS



STEP 4: MEASURE SEED & ADJUST

- A) POUR SEED OVER THREE OUTLETS AT END OF HOPPER.
IF USING SMALL SEED, PRIME METERING SHAFT BY ROTATING ROLLER USING 7/8" HEX ON RIGHT END OF MACHINE (CLOCKWISE) 100 REVOLUTIONS
B) AFTER PRIMING, ROTATE *ROLLER AS INDICATED BELOW:
AG72 46 REVOLUTIONS
AG96 34 REVOLUTIONS
AG144 23 REVOLUTIONS
C) WEIGH SEED (CONVERT TO POUNDS). DIVIDE BY THREE AND MULTIPLY BY THE NUMBER OF OUTLETS. THE CALCULATED WEIGHT IS POUNDS PER 1000 SQUARE FEET (MULTIPLY BY 43.5 FOR POUNDS PER ACRE)
IF DESIRED RATE NOT ACHIEVED, ADJUST FLUTE EXPOSURE AND REPEAT STEPS 4 AND 5
D) TO ADJUST, MOVE METERING SHAFT AS SHOWN BELOW

* WHEN CALIBRATING WITH A SPIKE ROLLER, LOWER MACHINE TO GROUND ALLOWING INNER SHAFT TO ROTATE WHILE RINGS REST ON GROUND

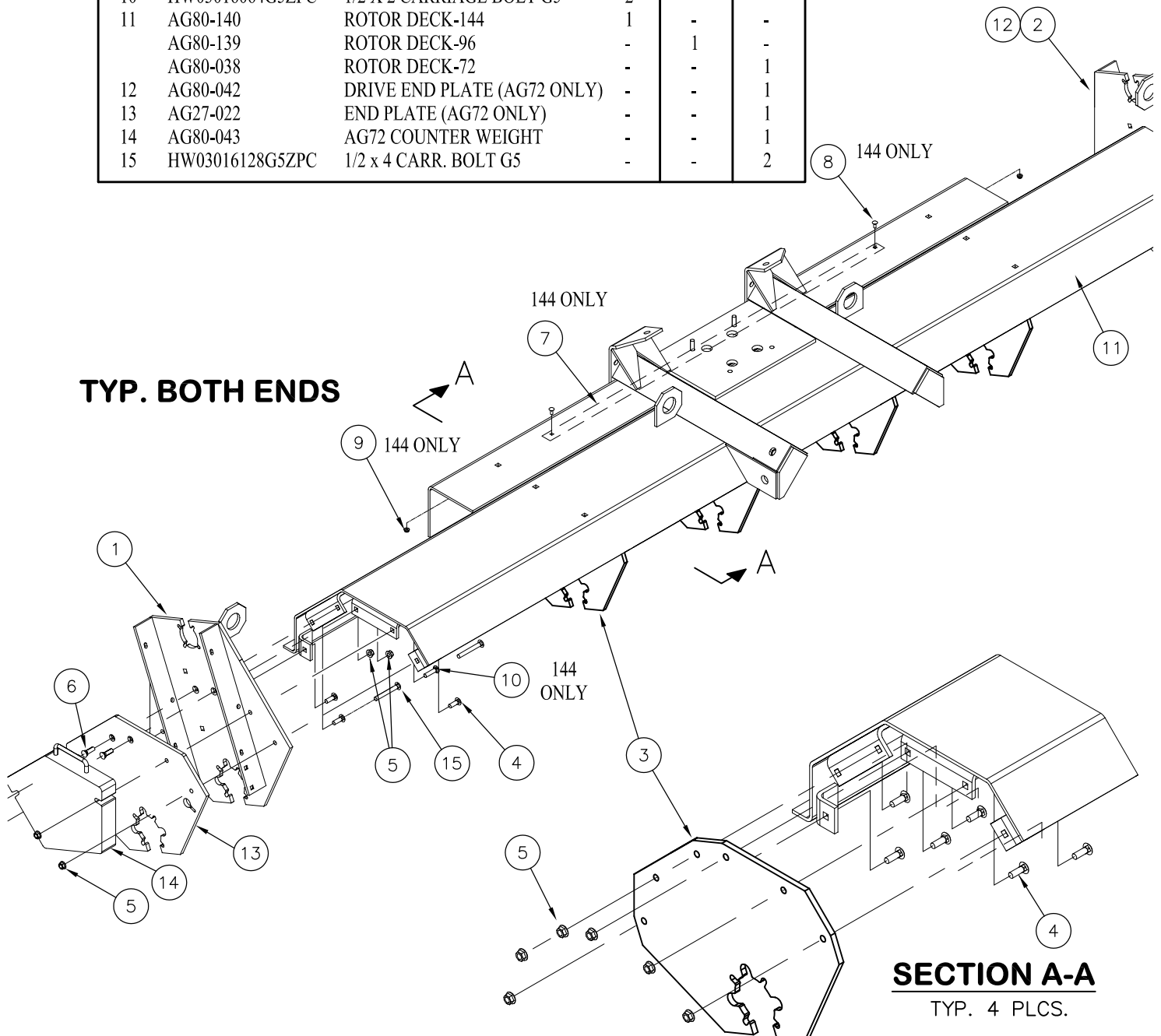
RYEGRASS/BUEGRASS/FESCUE

SPROCKETS	TOP	14T	17T	14T	17T	32T	17T	48T	}	
	BOTTOM	48T	48T	32T	32T	48T	14T	14T		
SEED RATE	LB / ACRE	300	250	200	165	130	70	25	}	
	LB / 1000 FT	6.7	5.5	4.5	3.7	2.9	1.6	0.6		
	Kg / 100 m ³	3.36	2.80	2.24	1.85	1.46	0.78	0.28		

AG MAIN FRAME

AG144 AG96 AG72

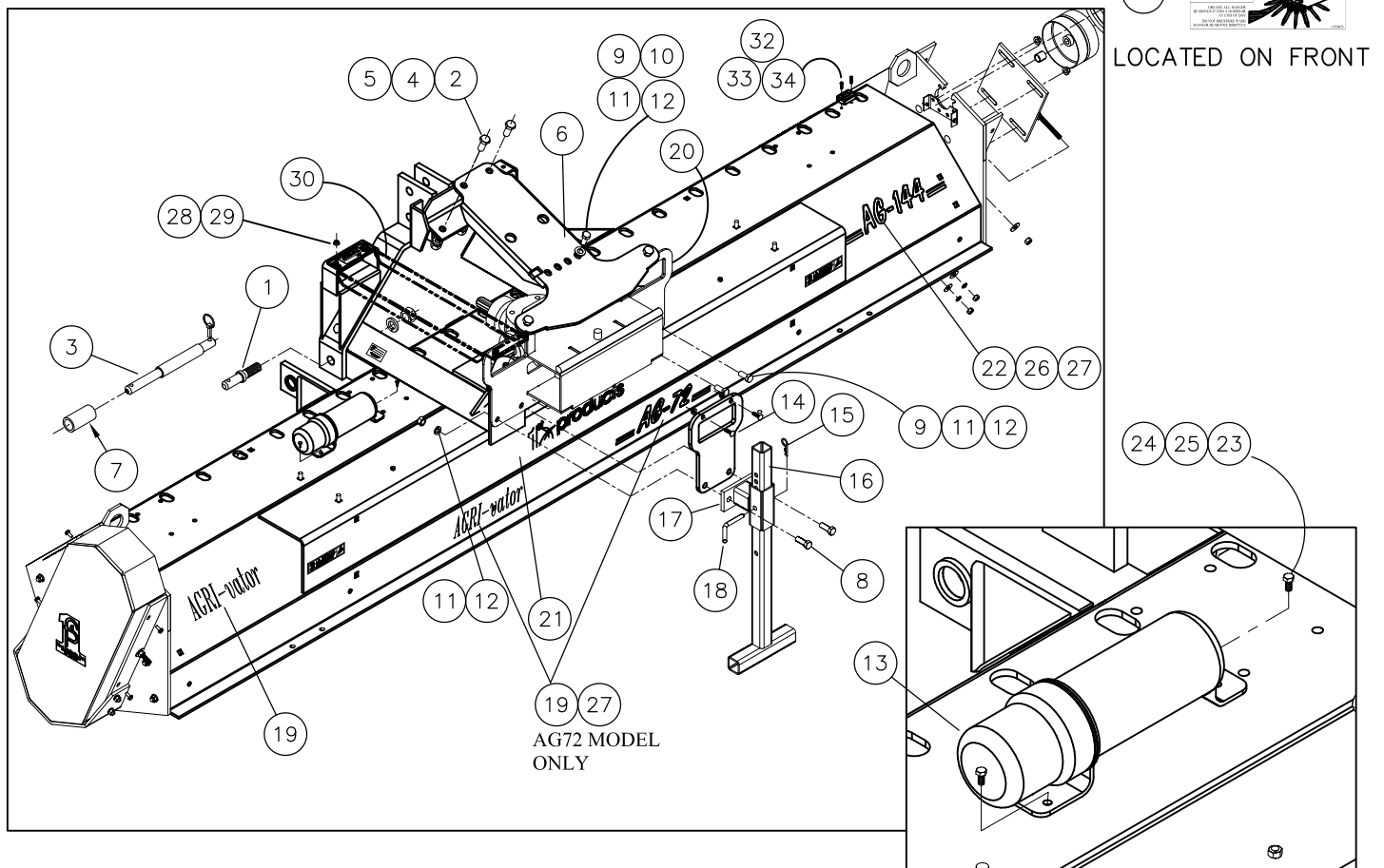
ITEM	PART NO.	DESCRIPTION	QTY.	QTY.	QTY.
1	AG80-031	END PLATE, RT	1	1	-
2	AG80-030	END PLATE, LT	1	1	-
3	AG27-004	INSIDE BRG. SUPPORT	4	2	1
4	HW03016048G5ZPC	1/2 x 1 1/2 CARRIAGE BOLT GD.5	30	20	12
5	HW22016G5ZPC	1/2 FLANGE LOCK NUT	36	24	18
6	HW11016048G5PL	1/2 x 1 1/2 PLOW BOLT	4	4	4
7	AG80-010	GEAR BOX BOLT STRAP	1	-	-
8	HW03010024G5ZPC	5/16 X 3/4 CARRIAGE BOLT G5	2	-	-
9	HW22010G5ZPC	5/16 FLANGE LOCK NUT	2	-	-
10	HW03016064G5ZPC	1/2 X 2 CARRIAGE BOLT G5	2	-	-
11	AG80-140	ROTOR DECK-144	1	-	-
	AG80-139	ROTOR DECK-96	-	1	-
	AG80-038	ROTOR DECK-72	-	-	1
12	AG80-042	DRIVE END PLATE (AG72 ONLY)	-	-	1
13	AG27-022	END PLATE (AG72 ONLY)	-	-	1
14	AG80-043	AG72 COUNTER WEIGHT	-	-	1
15	HW03016128G5ZPC	1/2 x 4 CARR. BOLT G5	-	-	2



STAND & HITCH ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	AG50-020	CAT 2 PIN w/1 1/8 NF NUT & LW	2	18	AG26-003	STAND PIN	1
2	HW01024056G5ZPC	3/4 X 1 3/4 HEX CAPSCREW G5	4	19	AG50-026	AGRI-vator DECAL	1
3	AG26-035	CAT 2/3 HITCH PIN	2	20	AG80-167	AUX. WEIGHT BOX	1
4	HW32024G8ZP	3/4 LOCKWASHER	6	21	AG50-118	1st products Decal	1
5	HW20024G5ZPC	3/4 HEX NUT	6	22	AG50-117	AG-144 Decal	1
6	AG27-245	CENTER STRAP	1	23	HW30008TAZP	1/4 STANDARD FLAT WASHER	3
7	AG24-052	CAT 2/3 HITCH BUSHING	2	24	HW01008032G5ZPC	1/4 X 1 HHCS	3
8	HW010200872G5PLC	5/8 X 2 1/4 HHCS	2	25	HW24008GBZPC	1/4 STOVER LOCK NUT	3
9	HW01020056G2ZPC	5/8 x 1 3/4 HEX CAPSCREW	8	26	AG50-115	AG-96 Decal	1
10	HW30020TAZP	5/8 STANDARD FLATWASHER	4	27	AG50-116	AG-72 Decal	1
11	HW32020G8ZP	5/8 LOCKWASHER	8	28	HW03012032G5ZPC	3/8 X 1 CARRIAGE BOLT	4
12	HW20020G5ZPC	5/8 HEX NUT	8	29	HW22012G5ZPC	3/8 FLANGE LOCKNUT	8
13	UA50-009	OM CANISTER	1	30	AG27-312	LIFT STRAP CON.	2
14	AG27-233	REAR LIFT STRAP	2	31	AG50-126	GREASABLE DECAL - AG	2
15	AE50-156	BRIDGE PIN	1	32	AG50-127	HOURLY METER - AG	1
16	AG80-015	AG PARKING STAND	1	33	HW09#06024G5ZPC	#6 X 3/4 SOCKET CAPSCREW	2
17	AG80-017	PARKING STAND SOCKET	1	34	HW23#06G5ZPC	#6 NYLON INSERT LOCKNUT	2

ALL HITCH & SUPPORT STRAP FASTENERS
ARE TYPICAL ALL AROUND

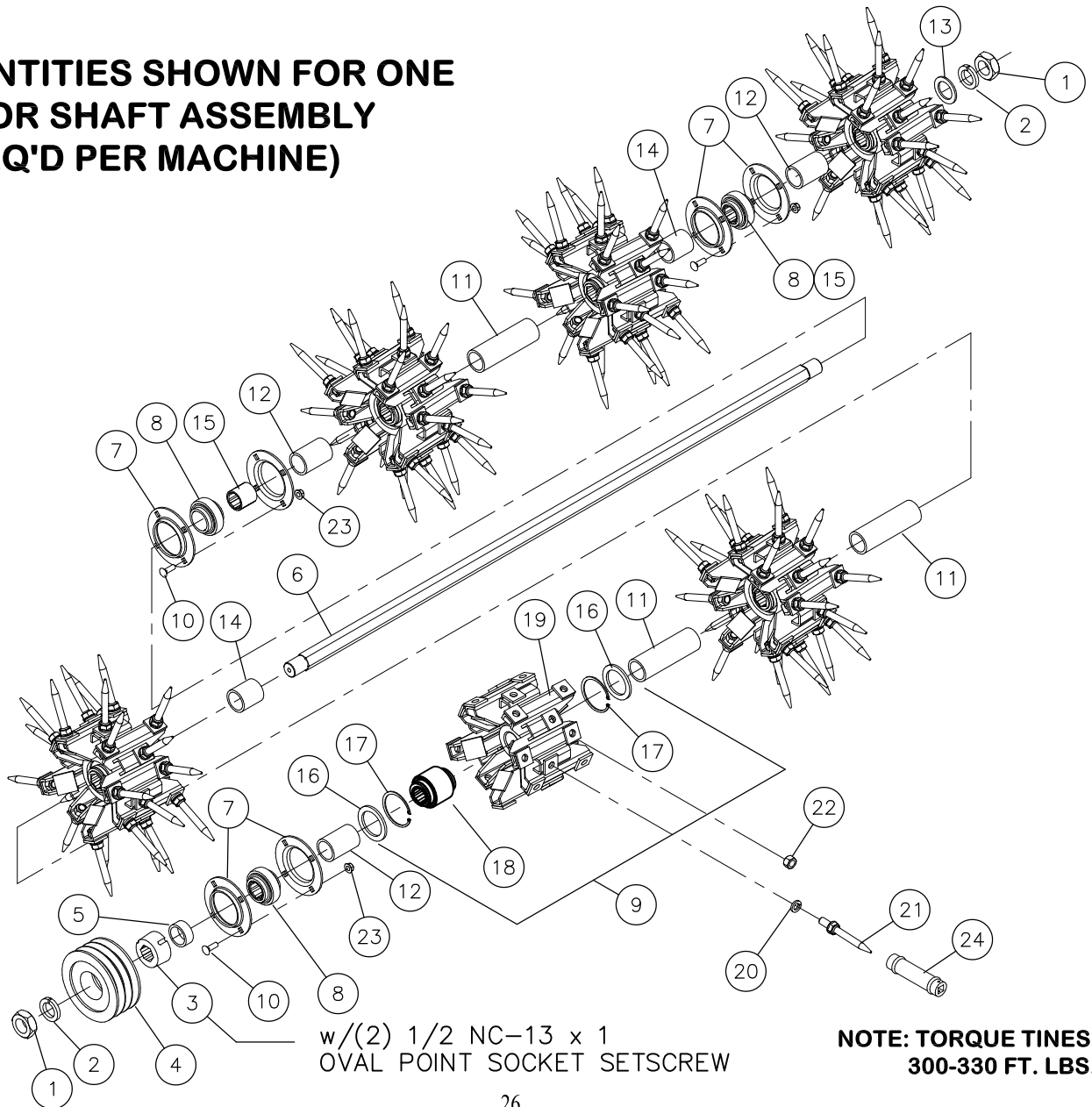


PARTS BOOK TUBE IS MOUNTED
ON THE RIGHT SIDE OF THE
ROTOR DECK FOR THE AG-72

ROTOR SHAFT - AG144

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	HW20052G5PLF	1 5/8-12 HEX NUT GD 5	2	13	HW6006409607GPL	2" ID x 3" OD x 7GA MACH BUSH	1
2	HW32052G5ZP	1 5/8 LOCK WASHER	2	14	AG24-005	SPACER - C (2 51/64")	2
3	AG50-006	HEX BORE TAPERED BUSHING	1	15			
4	AG50-005	3C 7.50 TL SHEAVE	1	16	AG50-104	2 3/4 X 3 5/8 X 7/16 SEAL	12
5	AG24-007	SHEAVE SPACER-144 (1 1/64")	1	17	AG50-105	3 5/8 INTERNAL SNAP RING	12
6	AG26-001	ROTOR SHAFT-144	1	18	AG81-076	BEARING/ADAPTER ASS'Y; AG2	6
7	AG50-001	100mm 4 BOLT BRG. FLG.	6	19	AG80-158	AG2 ROTOR ONLY	6
8	AG50-130	1 5/8 HEX BORE X 3LS BRG.	3	20	HW32024G8ZP	3/4 GRD 8 ALLOY LOCKWASHER	144
9	AG81-077	ROTOR ASSEMBLY; AG2	6	21	AG50-003	3/4 TINE	144
10	HW03016048G5ZPC	1/2 x 1 1/2 CARRIAGE BOLT G5	12	22	HW21024G5PLF	3/4 NF SQUARE NUT G5 PLAIN	144
11	AG24-003	SPACER - B (7 55/64")	3	23	HW22016G5ZPC	1/2 FLANGE LOCK NUT	12
12	AG24-002	SPACER - A (3 11/16")	3	24	AG60T020	1 1/8 EXTRA DP. IMPACT SOCKET	1

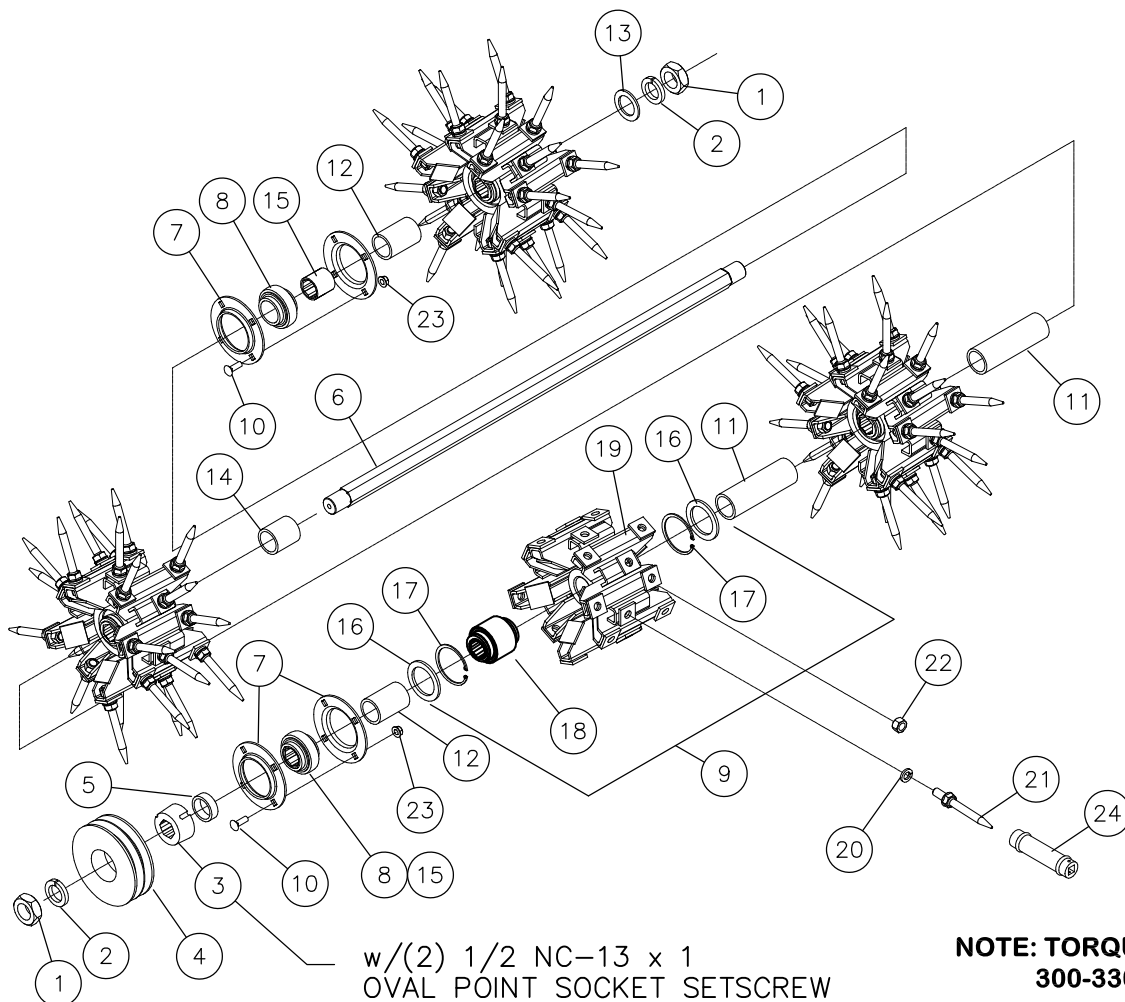
**QUANTITIES SHOWN FOR ONE
ROTOR SHAFT ASSEMBLY
(2 REQ'D PER MACHINE)**



ROTOR SHAFT - AG96

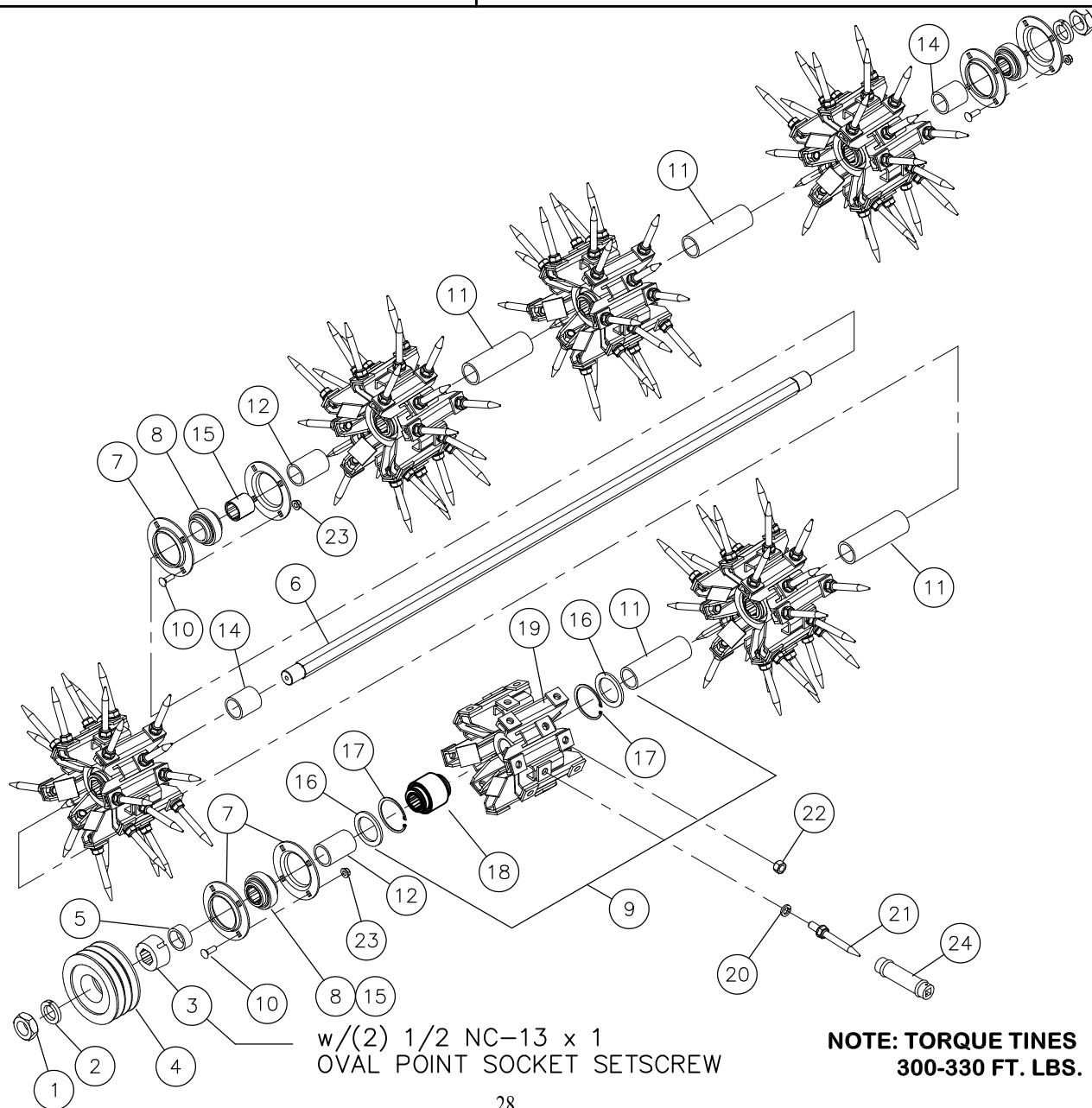
ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	HW20052G5PLF	1 5/8-12 HEX NUT GD 5	2	13	HW6006409607GPL	2" ID x 3" OD x 7GA MACH BUSH	1
2	HW32052G5ZP	1 5/8 LOCK WASHER	2	14	AG24-005	SPACER - C (2 51/64")	1
3	AG50-006	HEX BORE TAPERED BUSHING	1	15			
4	AG50-027	2C 7.50 TL SHEAVE	1	16	AG50-104	2 3/4 X 3 5/8 X 7/16 SEAL	8
5	AG24-014	SHEAVE SPACER-96 (49/64")	1	17	AG50-105	3 5/8 INTERNAL SNAP RING	8
6	AG26-005	ROTOR SHAFT-96	1	18	AG81-076	BEARING/ADAPTER ASS'Y; AG2	4
7	AG50-001	100mm 4 BOLT BRG. FLG.	4	19	AG80-158	AG2 ROTOR ONLY	4
8	AG50-130	1 5/8 HEX BORE X 3LS BRG.	2	20	HW32024G8ZP	3/4 GRD 8 ALLOY LOCKWASHER	96
9	AG81-077	ROTOR ASSEMBLY; AG2	4	21	AG50-003	3/4 TINE	96
10	HW03016048G5ZPC	1/2 x 1 1/2 CARRIAGE BOLT G5	8	22	HW21024G5PLF	3/4 NF SQUARE NUT G5 PLAIN	96
11	AG24-003	SPACER - B (7 55/64")	2	23	HW22016G5ZPC	1/2 FLANGE LOCK NUT	8
12	AG24-002	SPACER - A (3 11/16")	2	24	AG60T020	1 1/8 EXTRA DP. IMPACT SOCKET	1

**QUANTITIES SHOWN FOR ONE
ROTOR SHAFT ASSEMBLY
(2 REQ'D PER MACHINE)**

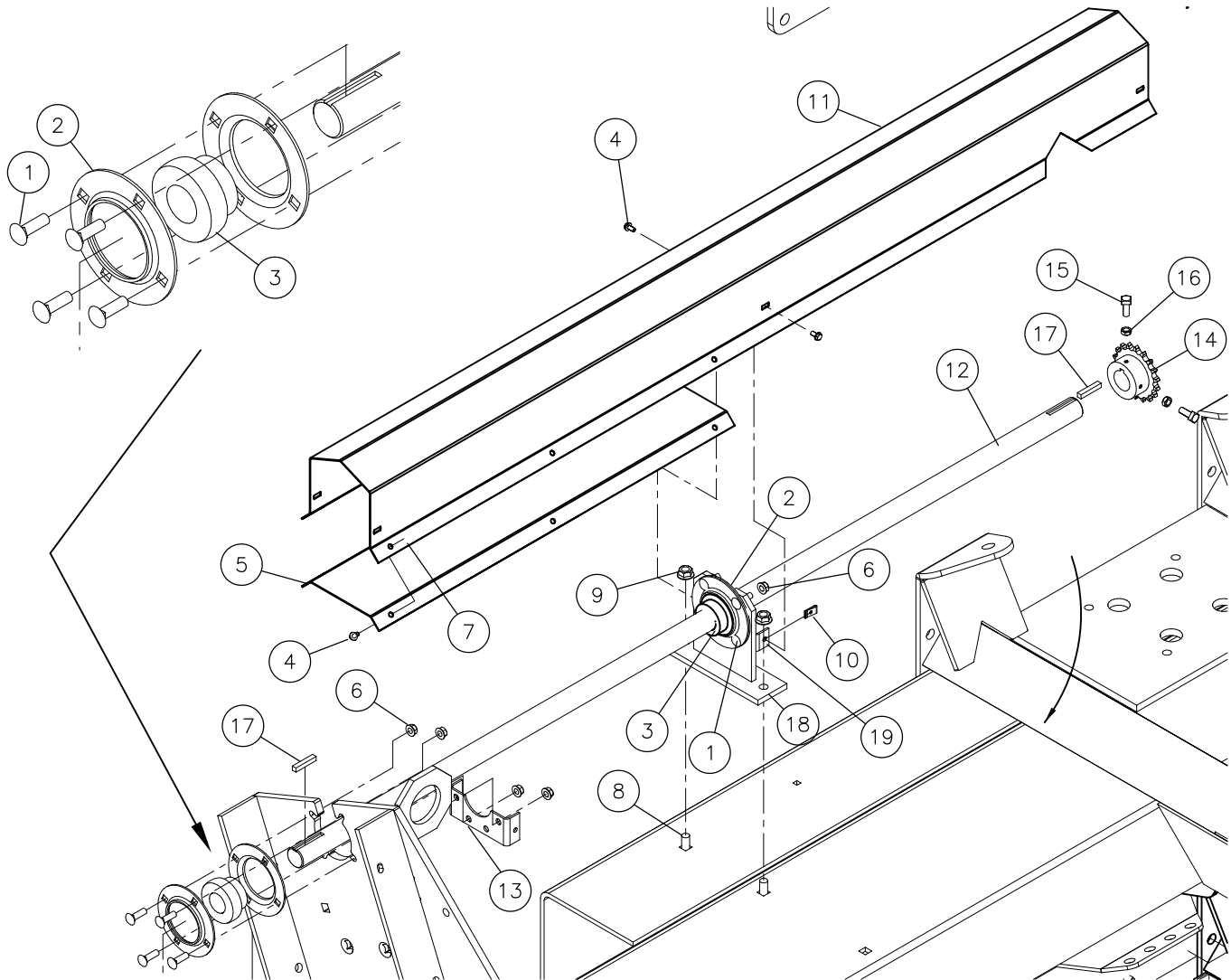


ROTOR SHAFT - AG72

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	HW20052G5PLF	1 5/8-12 HEX NUT GD 5	2	13	HW6006409607GPL	2" ID x 3" OD x 7GA MACH BUSH	1
2	HW32052G5ZP	1 5/8 LOCK WASHER	2	14	AG24-005	SPACER - C (2 51/64")	2
3	AG50-006	HEX BORE TAPERED BUSHING	1	15			
4	AG50-005	3C 7.50 TL SHEAVE	1	16	AG50-104	2 3/4 X 3 5/8 X 7/16 SEAL	12
5	AG24-007	SHEAVE SPACER-144 (1 1/64")	1	17	AG50-105	3 5/8 INTERNAL SNAP RING	12
6	AG26-010	ROTOR SHAFT-72	1	18	AG81-076	BEARING/ADAPTER ASS'Y; AG2	6
7	AG50-001	100mm 4 BOLT BRG. FLG.	6	19	AG80-158	AG2 ROTOR ONLY	6
8	AG50-130	1 5/8 HEX BORE X 3LS BRG.	3	20	HW32024G8ZP	3/4 GRD 8 ALLOY LOCKWASHER	144
9	AG81-077	ROTOR ASSEMBLY; AG2	6	21	AG50-003	3/4 TINE	144
10	HW03016048G5ZPC	1/2 x 1 1/2 CARRIAGE BOLT G5	12	22	HW21024G5PLF	3/4 NF SQUARE NUT G5 PLAIN	144
11	AG24-003	SPACER - B (7 55/64")	4	23	HW22016G5ZPC	1/2 FLANGE LOCK NUT	12
12	AG24-002	SPACER - A (3 11/16")	2	24	AG60T020	1 1/8 EXTRA DP. IMPACT SOCKET	1



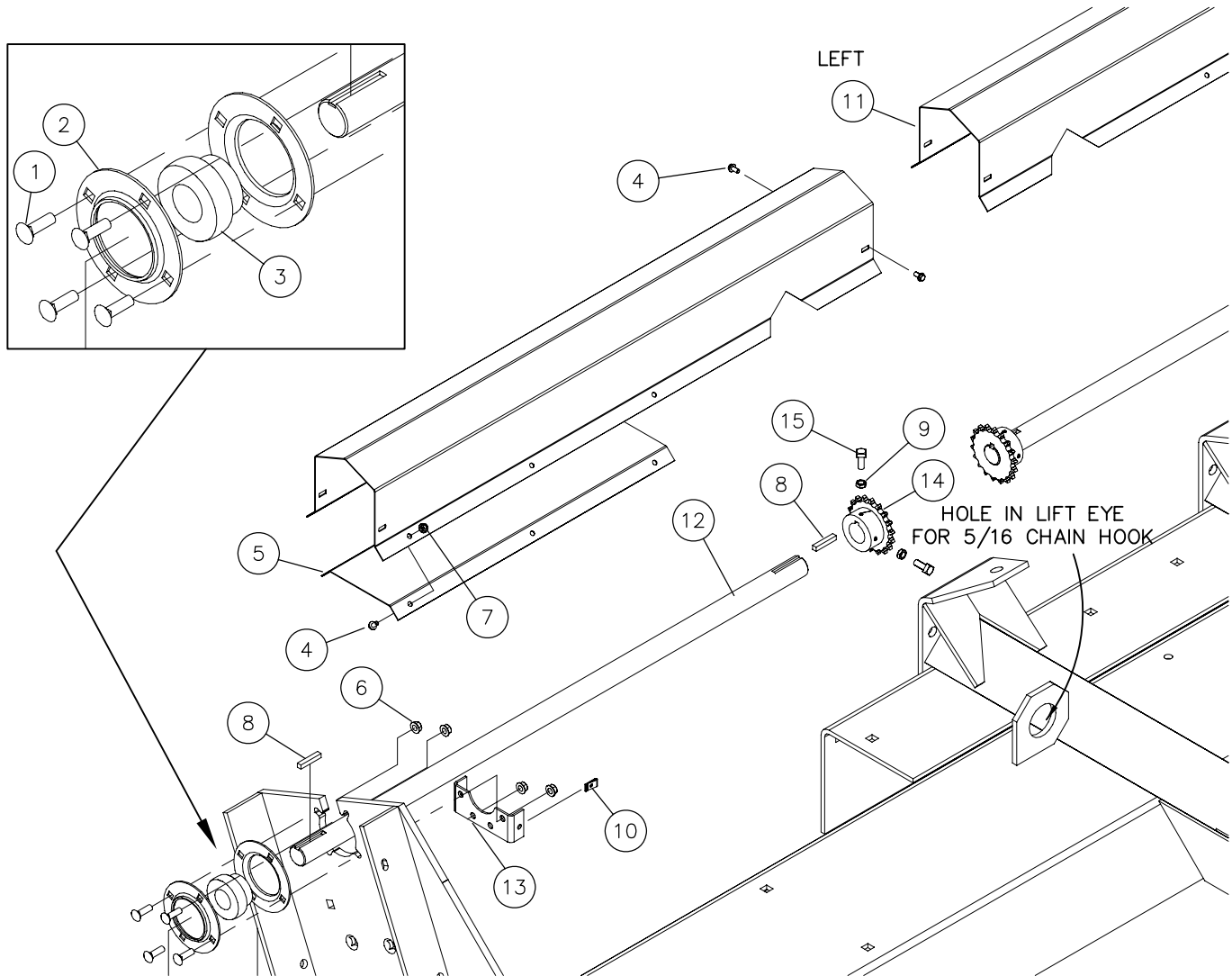
JACK SHAFT - AG144



ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	HW03012040G5ZPC	3/8 X 1 1/4 CARRIAGE BOLT G5	16	11	AG27-012L/013R	JACK SHAFT SHIELD	1 EA.
2	AE50-094	72MM x 4 HOLE FLANGE	8	12	AG26-002	JACK SHAFT-144	2
3	AG50-013	1 3/8 BORE BEARING	4	13	AG23-021	END SHIELD SUPPORT	2
4	HW06008016G5ZPC	1/4 X 1/2 HEX FLG LK SCREW	24	14	AG80-018	50B18T X 1 3/8 RND	2
5	AG27-014	BOTTOM SHIELD	2	15	HW07012032PLC	3/8 X 1" SQ HD. SS CUP POINT	4
6	HW22012G5ZPC	3/8 FLANGE LOCK NUT	16	16	HW25012G5ZPC	3/8 HEX JAM NUT	4
7	HW22008G5ZPC	1/4 FLANGE LOCK NUT	12	17	AG26-004	5/16 SQ. x 1 3/4 KEY	4
8	HW03016040G5ZPC	1/2 X 1 1/4 CARRIAGE BOLT	4	18	AG80-014	J-SHAFT BRG. SUPPORT	2
9	HW22016G5ZPC	1/2 FLANGE LOCK NUT	4	19	AG23-011	INNER SHIELD SUPPORT	2
10	AE50-057	1/4-20 "U"-NUT	12				

QUANTITIES LISTED ARE FOR BOTH ENDS

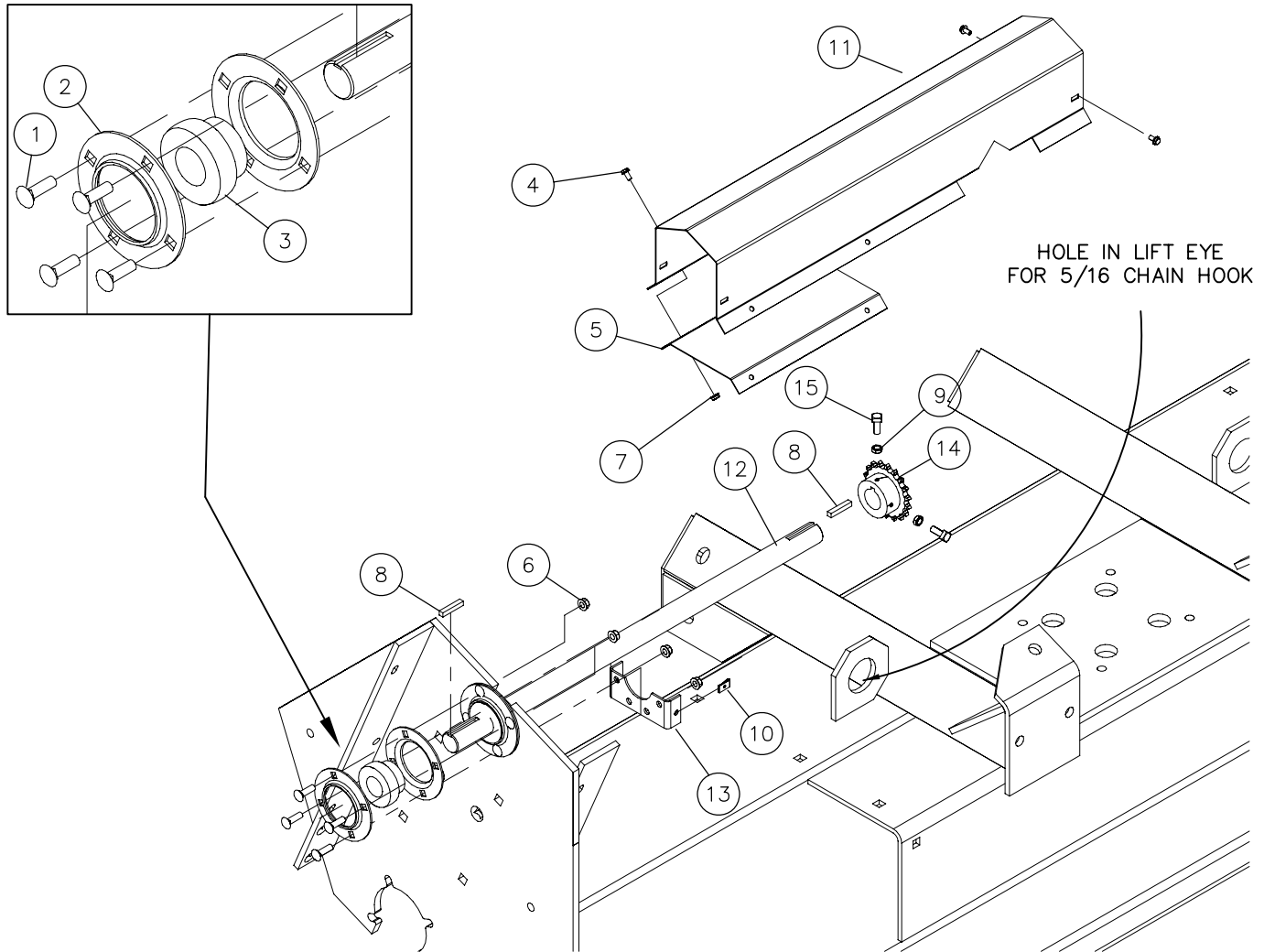
JACK SHAFT - AG96



ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	HW03012040G5ZPC	3/8 X 1 1/4 CARRIAGE BOLT G5	8	11	AG27-018L/019R	JACK SHAFT SHIELD	1 EA.
2	AE50-094	72MM x 4 HOLE FLANGE	4	12	AG26-006	JACK SHAFT-96	2
3	AG50-013	1 3/8 BORE BEARING	2	13	AG23-021	END SHIELD SUPPORT	2
4	HW06008016G5ZPC	1/4 X 1/2 HEX FLG LK SCREW	20	14	AG80-018	50B18T X 1 3/8 RND	2
5	AG27-014	BOTTOM SHIELD	2	15	HW07012032PLC	3/8 X 1" SQ HD. SS CUP POINT	4
6	HW22012G5ZPC	3/8 FLANGE LOCK NUT	8				
7	HW22008G5ZPC	1/4 FLANGE LOCK NUT	12				
8	AG26-004	5/16 SQ. x 1 3/4 KEY	4				
9	HW25012G5ZPC	3/8 HEX JAM NUT	4				
10	AE50-057	1/4-20 "U"-NUT	8				

QUANTITIES LISTED ARE FOR BOTH ENDS

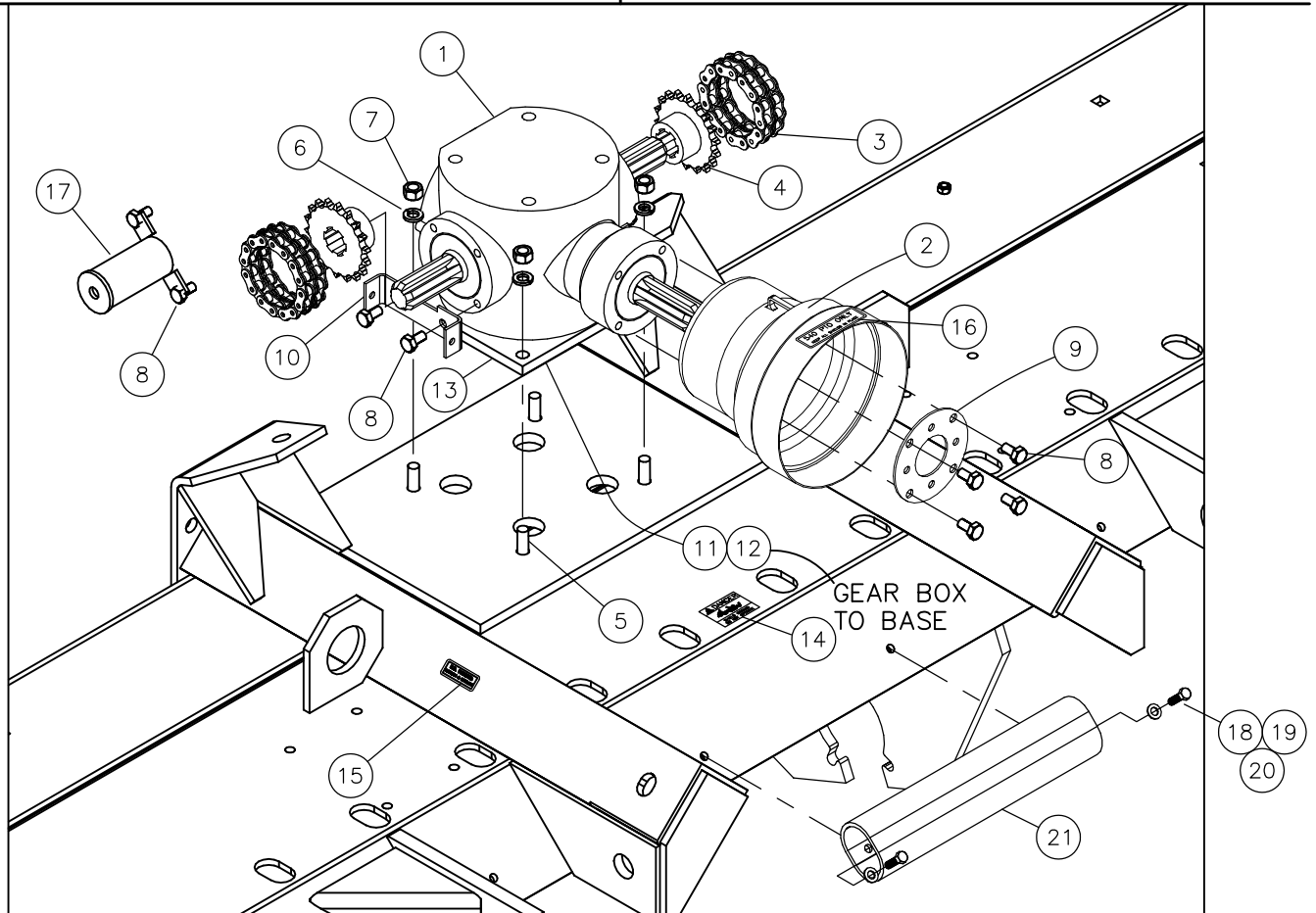
JACK SHAFT - AG72



ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	HW03012040G5ZPC	3/8 X 1 1/4 CARRIAGE BOLT G5	4	11	AG27-023	JACK SHAFT SHIELD	1
2	AE50-094	72MM x 4 HOLE FLANGE	2	12	AG26-009	JACK SHAFT-72	1
3	AG50-013	1 3/8 BORE BEARING	1	13	AG23-021	END SHIELD SUPPORT	1
4	HW06008016G5ZPC	1/4 X 1/2 HEX FLG LK SCREW	8	14	AG80-018	50B18T X 1 3/8 RND	1
5	AG27-025	BOTTOM SHIELD	1	15	HW07012032PLC	3/8 X 1" SQ HD. SS CUP POINT	2
6	HW22012G5ZPC	3/8 FLANGE LOCK NUT	4				
7	HW22008G5ZPC	1/4 FLANGE LOCK NUT	4				
8	AG26-004	5/16 SQ. x 1 3/4 KEY	2				
9	HW25012G5ZPC	3/8 HEX JAM NUT	2				
10	AE50-057	1/4-20 "U"-NUT	4				

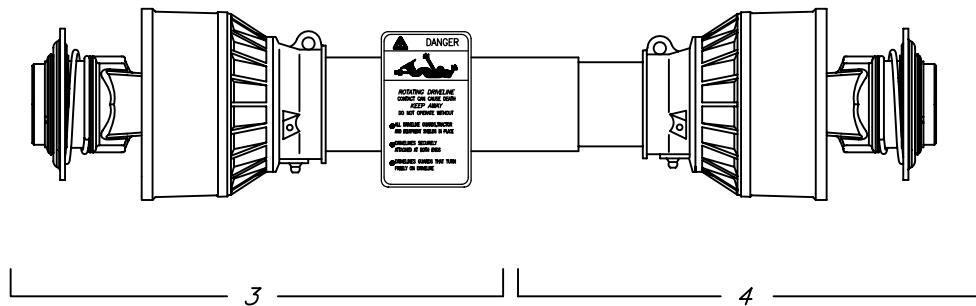
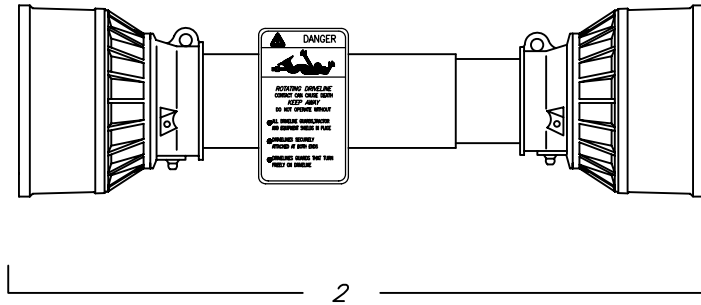
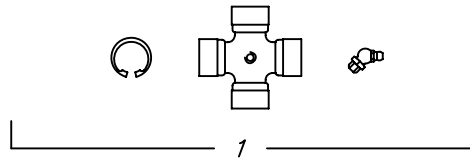
GEAR BOX ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY.	ITEM	PART NO.	DESCRIPTION	QTY.
1	AG54-001	GEAR BOX	1	11	HW32018G5ZP	9/16 LOCKWASHER	4
2	AG50-022	PTO SHIELD 5 7/8 x 7 1/2	1	12	HW01M140308.8ZC	M14 X 30 HEX CAPSCREW	4
3	AG50-016	#50-2 X 18 P CHAIN	2	13	AG23-017	GEAR BOX BASE	1
	AG50-016	#50-2 X 18 P CHAIN (72)	1	14			
4	AG80-011	50B18T X 1 3/8 6B	2	15			
	AG80-011	50B18T X 1 3/8 6B (72)	1	16	AE50-077	540 PTO ONLY DECAL	1
5	HW03016064G5ZPC	1/2 X 2 CARR. BOLT G5 (144)	2	17	AG80-041	GEARBOX SHAFT COVER	1
	HW03016064G5ZPC	1/2 X 2 CARR. BOLT G5 (72 & 96)	4	18	HW22010G5ZPC	5/16 FLANGE LOCK NUT	2
6	HW32016G5ZP	1/2 LOCKWASHER	4	19	HW30010TAZP	5/16 FLATWASHER	2
7	HW20016G5ZPC	1/2 HEX NUT	4	20	HW01010040G5ZPC	5/16 X 1 1/4 HHCS	2
8	HW01M100208.8ZC	M10 x 20 HEX HD CAPSCREW	8	21	AG50-095	D.L. BUMPER - 144 (96 & 144)	1
9	SE50-034	PTO SHIELD WASHER	1		AG50-096	D.L. BUMPER - 72 (72)	1
10	AG23-011	INNER SHIELD SUPPORT (72)	1				
	AG23-011	INNER SHIELD SUPPORT	2				



DRIVE LINE COMPONENTS AG55-028 (COMPLETE DRIVE LINE)

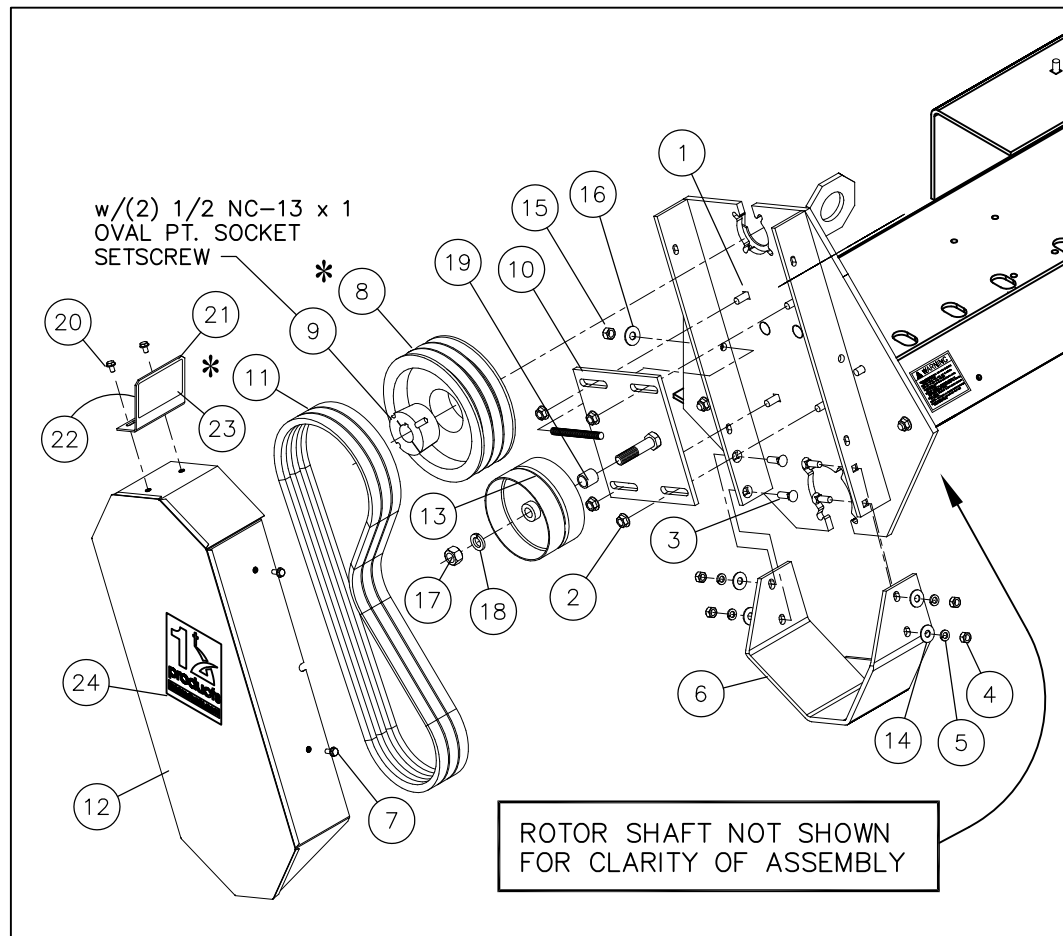
ITEM	PART NO.	DESCRIPTION
1	AG55-003	Cross Kit
2	AG55-029	CPL. SHIELD ASSEMBLY
3	AG55-030	OUTER SHAFT W/ SHIELD
4	AG55-031	INNER SHAFT W/ SHIELD



DRIVE END ASSEMBLY

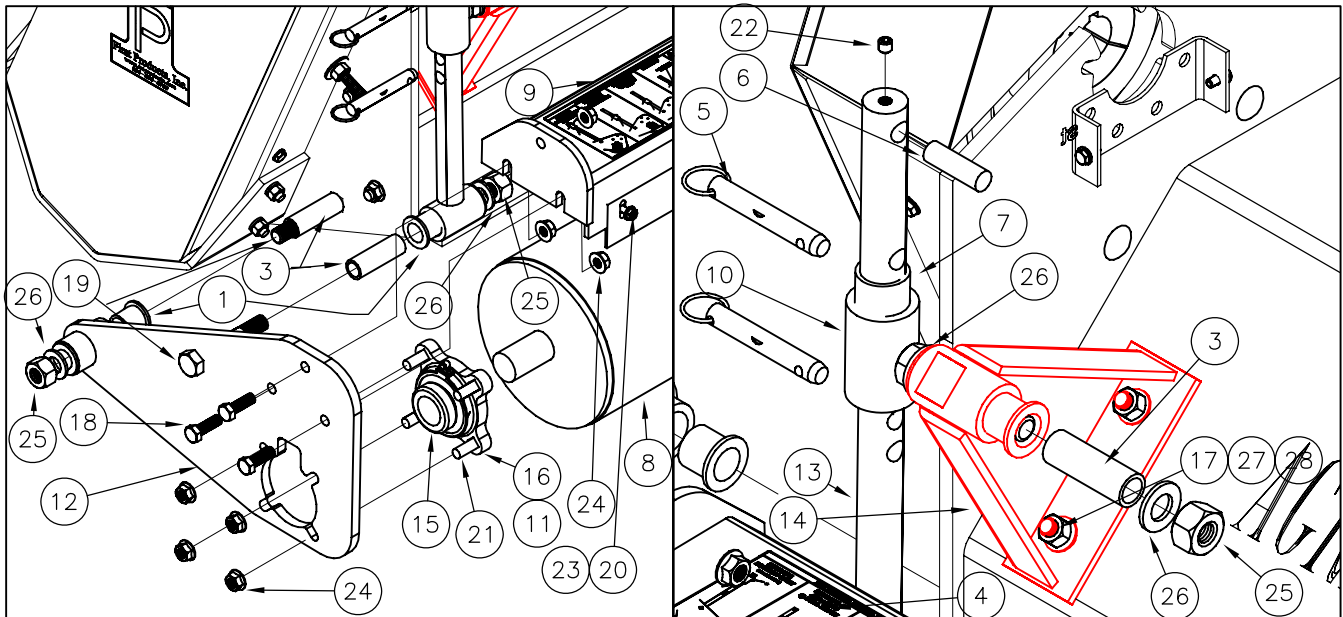
ITEM	PART NO.	DESCRIPTION	QTY. 72/96&144	ITEM	PART NO.	DESCRIPTION	QTY. 72/96&144
1	HW03016048G5ZPC	1/2 x 1 1/2 CARR. BOLT G5	4/8/8	12	AG80-008	AG BELT COVER	1/2/2
2	HW22016G5ZPC	1/2 FLANGE LOCKNUT	4/8/8	13	AG50-010	IDLER PULLEY	1/2/2
3	HW11014048G5PL	7/16 x 1 1/2 PLOW BOLT	4/8/8	14	HW30014TAZP	7/16 FLATWASHER	4/8/8
4	HW20014G5ZPC	7/16 HEX NUT	4/8/8	15	HW23016G5ZPC	1/2 NYLON INSERT LOCKNUT	1/2/2
5	HW32014G5ZP	7/16 LOCKWASHER	4/8/8	16	HW31016TAZP	1/2 SAE FLATWASHER	1/2/2
6	AG80-012	SKID SHOE	1/2/2	17	HW20024G5ZPC	3/4 HEX NUT	1/2/2
7	HW05010024G2ZPC	5/16 x 3/4 HEX FLG CAPSCREW	4/8/8	18	HW32024G5ZP	3/4 LOCKWASHER	1/2/2
* 8	AG50-011	3C 9.50 TL SHEAVE (144)	1/-/2	19	AG24-004	BELT IDLER SPACER	1/2/2
	AG50-028	2C 9.50 TL SHEAVE (96, 72)	1/2/-	20	HW06010016G5ZPC	5/16 x 1/2 HEX FLG LK SCREW	-/4/4
9	AG50-012	1-3/8 BORE TL BUSHING	1/2/2	21	AG81-016	MOUNT w/REFLECTORS	-/2/2
10	AG80-007	BELT IDLER BRKT	1/2/2	22	AG50-033	RED REFLECTOR	-/2/2
11	AG50-021	CX68 BELT	3/4/6	23	AG50-032	AMBER REFLECTOR	-/2/2
				24	UA50-012	UA BELT COVER DECAL	1/2/2

QUANTITIES LISTED ARE FOR BOTH ENDS FOR 144 & 96



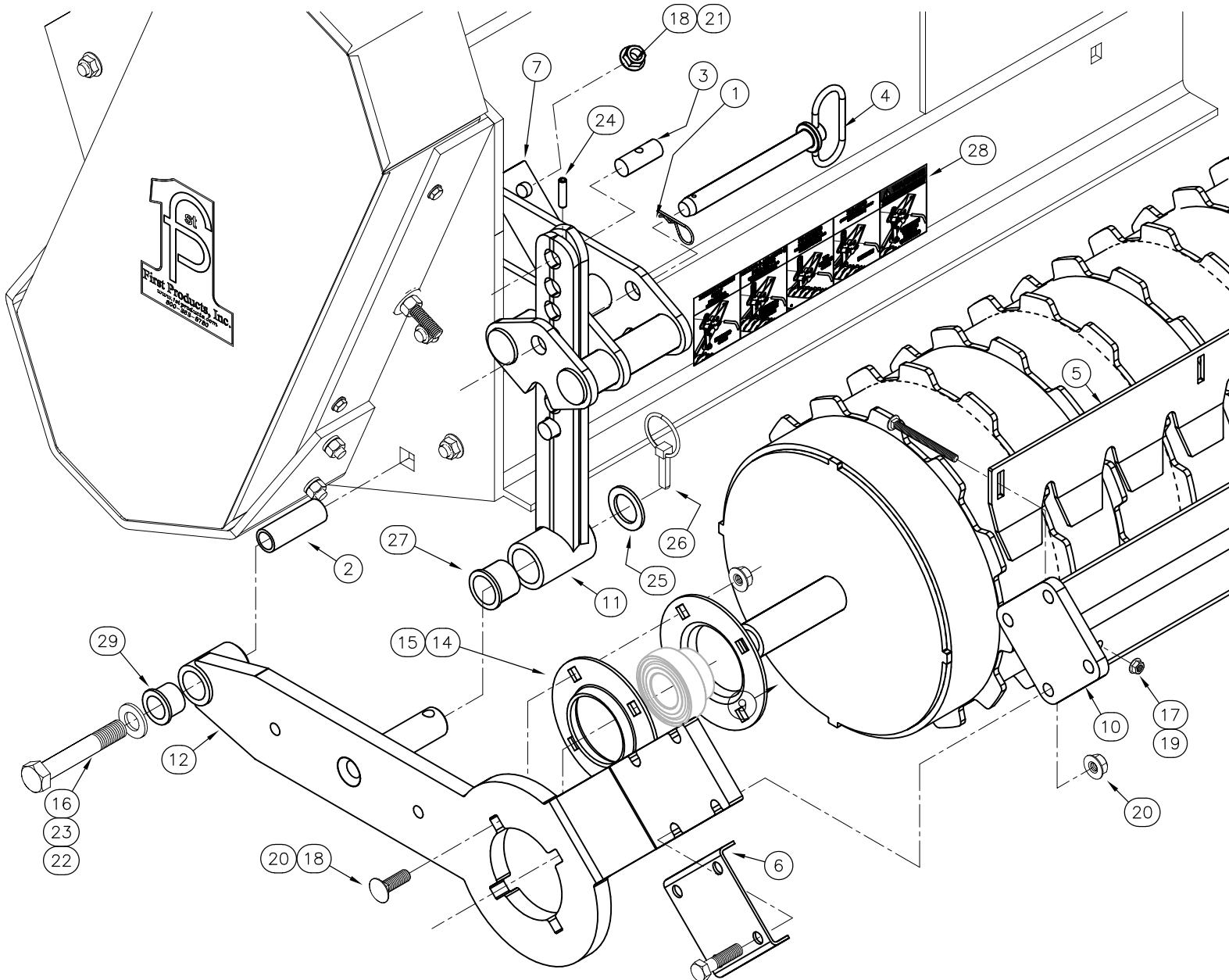
REAR ROLLER

ITEM PART NO.		DESCRIPTION	QTY.			ITEM PART NO.		DESCRIPTION	QTY.				
			AG	72	96	144				AG	72	96	144
1	AE50-025	1" x 1-1/4" FLG. BEARING	12	12	12		12	AG80-047	ROLLER END PLATE	2	2	2	
2	AG23-055	SCRAPER, AG72	1				13	AG80-049	ROLLER HEIGHT ADJUSTMENT ROD	2	2	2	
	AG23-056	SCRAPER, AG96			1		14	AG80-050	PIVOT SUPPORT	2	2	2	
	AG23-057	SCRAPER, AG144			1		15	FL50-006	1 1/2 RELUBRICATABLE BALL BRG.	2	2	2	
3	AG24-019	ROLLER, PIVOT BUSHING	6	6	6		16	FL50-025	80 mm DUCTILE IRON FLANGE	2	2	2	
4	AG50-044	REAR ROLLER DECAL	1	1	1		17	HW01016040G5ZPC	1/2 x 1 1/4 GR 5 HHCS	4	4	4	
5	AG50-056	3" PIN, ROLLER	4	4	4		18	HW01016048G5ZPC	1/2 x 1 1/2" GR HHCS	6	6	6	
6	AG26-017	SAFETY PIN	2	2	2		19	HW01024144G5ZPC	3/4 x 4 1/2" LG GR 5 HHCS	4	4	4	
7	AG50-043	PLAIN BUSHING, 1-1/4 I.D.	4	4	4		20	HW03010024G5ZPC	5/16" x 3/4" CBOLT	5	6	10	
8	AG80-044	ROLLER, AG72	1				21	HW03016056G5ZPC	1/2" x 1 3/4" LG, GR 5 CBOLT	8	8	8	
	AG80-052	ROLLER, AG96			1		22	HW08012012PLC	3/8-16 x 3/8 LG S, SET SCREW	2	2	2	
	AG80-053	ROLLER, AG144				1	23	HW20010G5ZPC	5/16" HEX FLANGE LOCK NUT	5	6	10	
9	AG80-045	ROLLER SHROUD, AG72	1				24	HW22016G5ZPC	1/2 HEX FLANGE LOCK NUT	14	14	14	
	AG80-048	ROLLER SHROUD, AG96			1		25	HW24024GBZPC	3/4" STOVER LOCK NUT	6	6	6	
	AG80-051	ROLLER SHROUD, AG144			1		26	HW30024TAZP	3/4 FLAT WASHER	8	8	8	
10	AG80-046	ADJUSTMENT PIVOT TUBE	2	2	2		27	HW31016TAZP	1/2 FLATE WASHER, SAE	4	4	4	
11	HW5000890F	1/4-28 x 90 GREASE FITTING	2	2	2		28	HW24016GBZPC	1/2 STOVER LOCK NUT	4	4	4	



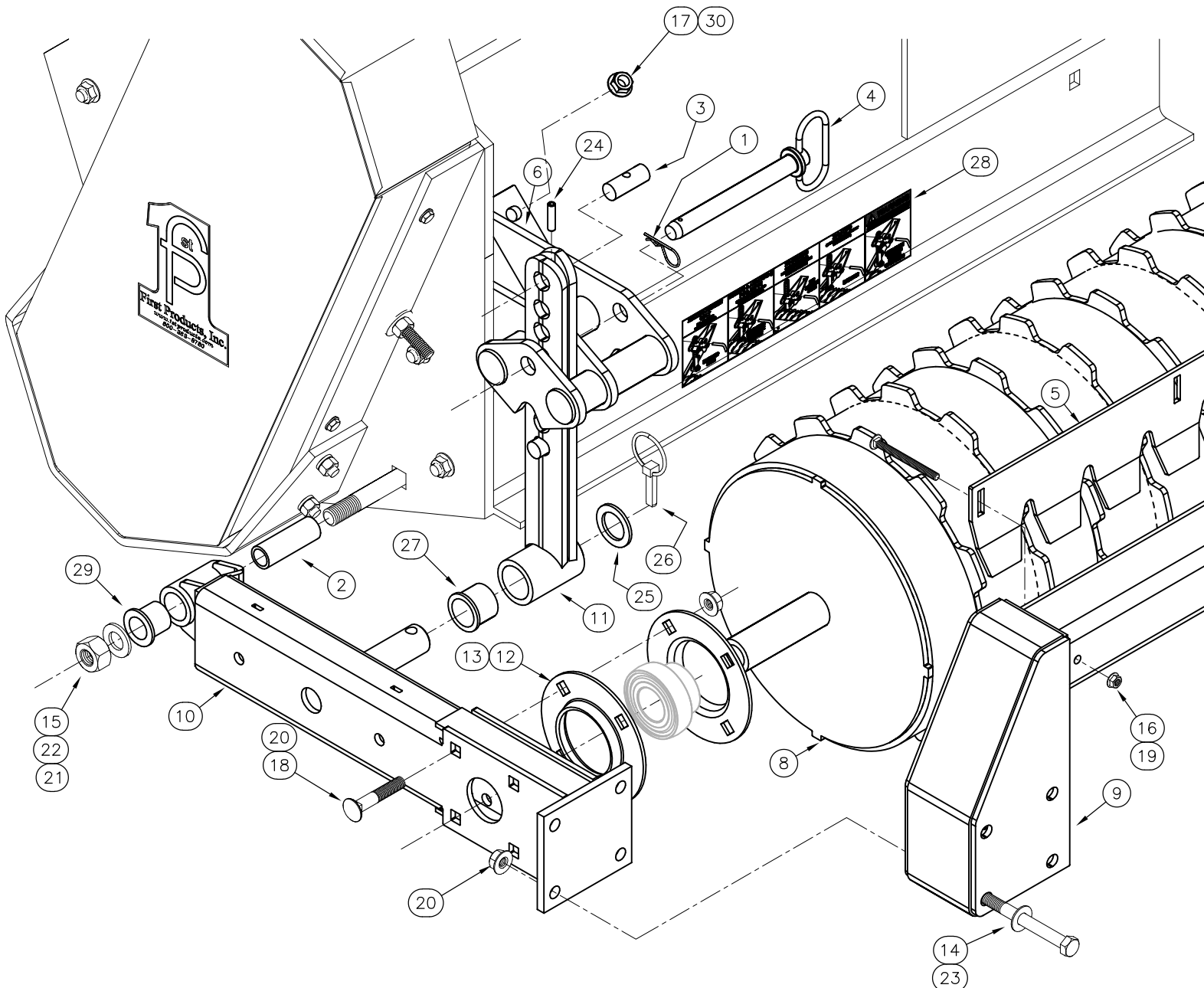
CLEATED ROLLER - AG72

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AG50-106	#10 HAIR PIN COTTER	2	17	HW03010112G5ZPC	5/16 X 3 1/2 CARRIAGE BOLT	9
2	AG24-071	ROLLER, PIVOT BUSHING - AG72	2	18	HW03016048G8ZPC	1/2 X 1 1/2 CARRIAGE BOLT, GR8	16
3	AG26-021	TOP ADJ. STOP; AG	2	19	HW22010G5ZPC	5/16 FLG. LOCKNUT	9
4	AG50-109	3/4 X 6 1/4 PIN	2	20	HW22016G5ZPC	1/2 FLG. LOCKNUT	16
5	AG27-196	24" SCRAPER; AG	3	21	HW35016GFZPC	1/2 STOVER FLANGE LOCK NUT	8
6	AG27-230	CROSS WASHER	2	22	HW24024GBZPC	3/4 STOVER LOCK NUT	2
7	AG80-077	SADDLE; LEFT	1	23	HW30024TAZP	3/4 FLAT WASHER	2
8	AG80-078	SADDLE; RIGHT	1	24	HW42010040ZP	5/16 x 1 1/4 ROLL PIN	2
9	AG80-119	ROLLER; AG72	1	25	HW6004006010GZP	1 1/4 x 1 7/8 x 10 GA. M.B.	2
10	AG80-142	NARROW CROSS; AG72	1	26	SE50-035	LYNCH PIN	2
11	AG80-076	ROLLER ADJUSTMENT; AG	2	27	AG50-086	1 1/4 X 1 1/2 FLG BRG	4
12	AG81-073	ROLLER ARM; AG72 - L	1	28	AG50-108	CLEATED ROLLER DECAL; AG	1
13	AG81-074	ROLLER ARM; AG72 - R	1	29	AE50-025	1 X 1 1/4 FLG. BEARING	4
14	FL50-006	1 1/2 RELUBRICATABLE BALL BRG.	2				
15	AG50-131	80mm HVY STAMPING	4				
16	HW01024128G5ZPC	3/4 x 4 GR 5 HHCS	2				



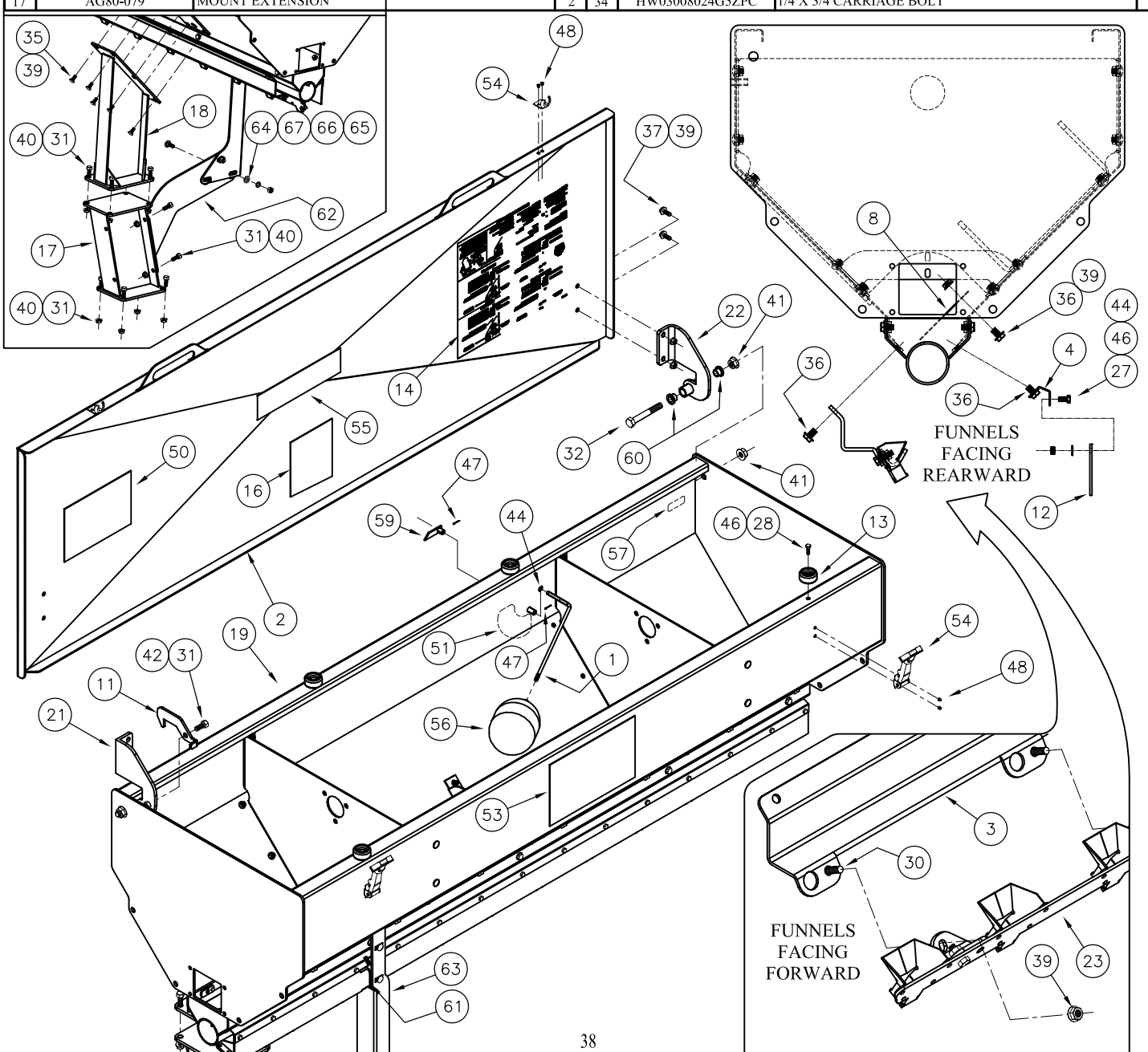
CLEATED ROLLER - AG96 & AG144

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AG50-106	#10 HAIR PIN COTTER	2	16	HW03010112G5ZPC	5/16 X 3 1/2 CARRIAGE BOLT (AG-96)	12
2	AG24-019	ROLLER, PIVOT BUSHING	2		HW03010112G5ZPC	5/16 X 3 1/2 CARRIAGE BOLT (AG-144)	18
3	AG26-021	TOP ADJ. STOP; AG	2	17	HW03016048G8ZPC	1/2 X 1 1/2 CARRIAGE BOLT, GR8	8
4	AG50-109	3/4 X 6 1/4 PIN	2	18	HW03016088G5ZPC	1/2 X 2 3/4 CARRIAGE BOLT	8
5	AG27-196	24" SCRAPER; AG (AG-96)	4	19	HW22010G5ZPC	5/16 FLG. LOCKNUT (AG-96)	12
	AG27-196	24" SCRAPER; AG (AG-144)	6		HW22010G5ZPC	5/16 FLG. LOCKNUT (AG-144)	18
6	AG80-077	SADDLE; LEFT	1	20	HW22016G5ZPC	1/2 FLG. LOCKNUT	24
7	AG80-078	SADDLE; RIGHT	1	21	HW24024G5ZPC	3/4 STOVER LOCK NUT	2
8	AG80-120	ROLLER; AG96	1	22	HW30024TAZP	3/4 FLAT WASHER	2
	AG80-121	ROLLER; AG144	1	23	HW31016TAZP	1/2 SAE FLATWASHER	8
9	AG80-128	ROLLER CROSS; AG96	1	24	HW42010040ZP	5/16 x 1 1/4 ROLL PIN	2
	AG80-129	ROLLER CROSS; AG144	1	25	HW6004006010GZP	1 1/4 x 1 7/8 x 10 GA. M.B.	2
10	AG81-037	PACKER ROLLER ARM	2	26	SE50-035	LYNCH PIN	2
11	AG80-076	ROLLER ADJUSTMENT; AG	2	27	AG50-086	1 1/4 X 1 1/2 FLG BRG	4
12	FL50-006	1 1/2 RELUBRICATABLE BALL BRG.	2	28	AG50-108	CLEATED ROLLER DECAL; AG	1
13	AG50-131	80mm HVY. STAMPING	4	29	AE50-025	1 X 1 1/4 FLG. BEARING	4
14	HW01016160G5ZPC	1/2 x 5 HHCS	8	30	HW35016GFZPC	1/2 STOVER FLANGE LOCKNUT	8
15	HW01024144G5ZPC	3/4 x 4 1/2 GR 5 HHCS	2				



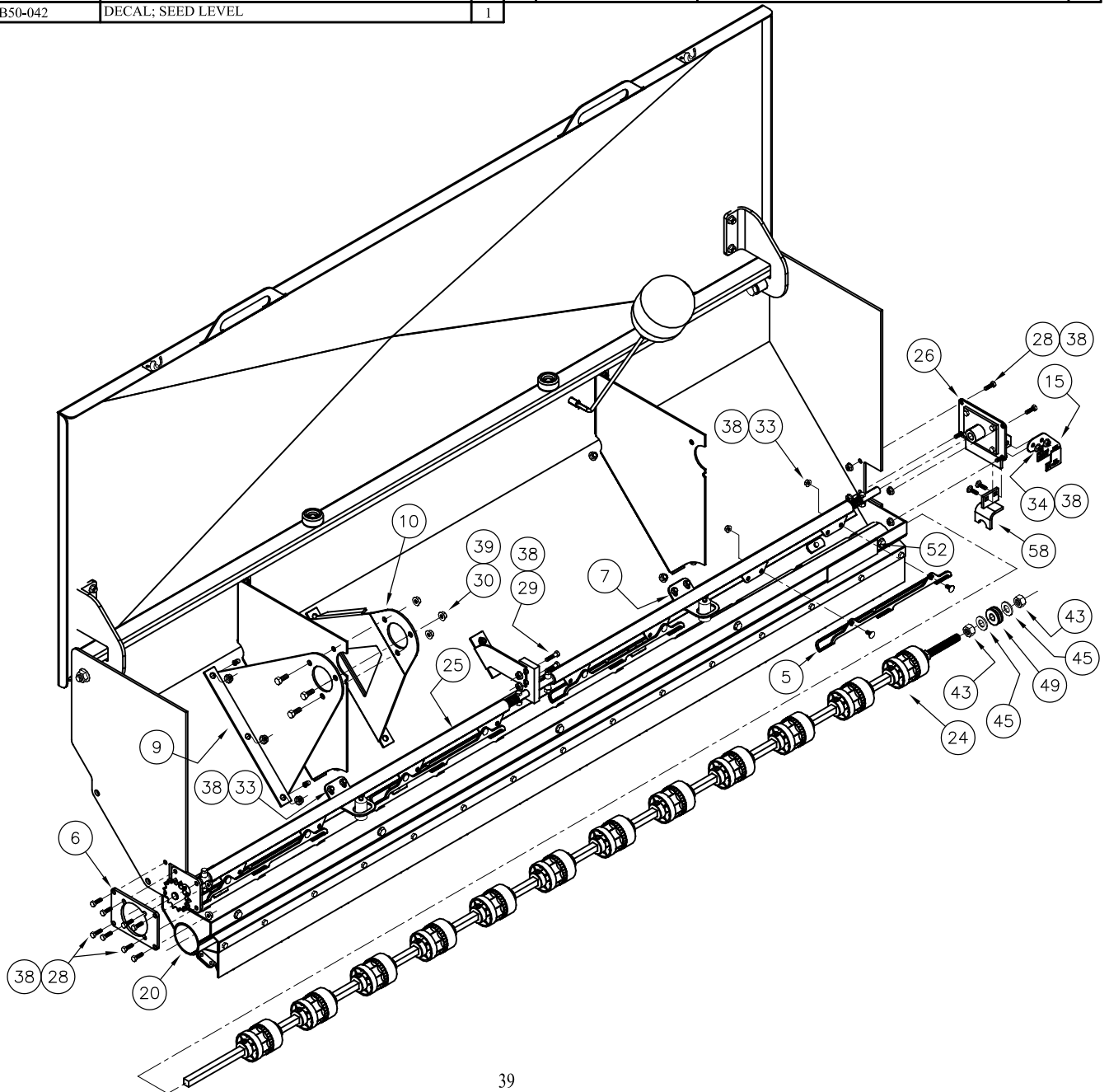
SEEDER -72

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AG26-025	SEED GAUGE ARM; AG	1	18	AG80-080	SEEDER MOUNT; AG	2
2	AG27-114	6' HOPPER LID; AG	1	19	AG80-081	6' HOPPER; AG	1
3	AG27-119	6' SEED TRAY BRACKET	1	20	AG80-082	6' METERING TUBE; AG	1
4	AG27-120	6' SHIELD BRACKET	1	21	AG80-083	HINGE; LEFT	1
5	AG27-123	SIFTER; AG	4	22	AG80-084	HINGE; RIGHT	1
6	AG27-125	SPROCKET PLATE	1	23	AG81-040	6' SEED FUNNEL ASS'Y	1
7	AG27-126	BUMPER RETAINER	2	24	AG81-041	6' FEED WHEEL ASS'Y (PAGE 51)	1
8	AG27-127	6' BOX DIVIDER	1	25	AG81-053	6' AGITATOR ASS'Y (PAGE 50)	1
9	AG27-214	LIFT GUSSET; LEFT	2	26	AG81-054	METERING ADJ. ASS'Y	1
10	AG27-215	LIFT GUSSET; RIGHT	2	27	HW01008016G5ZPC	1/4 X 1/2 HHCS	15
11	AG27-231	HINGE LATCH	1	28	HW01008024G5ZPC	1/4 X 3/4 HHCS	16
12	AG50-057	FLUTE SHIELD - 6'	1	29	HW01008032G5ZPC	1/4 X 1 HHCS	2
13	AG50-058	1 1/2 BUMPER W/ WASHER	4	30	HW01010024G5ZPC	5/16 X 3/4 HHCS	12
14	AG50-114	AG CALIBRATION DECAL	1	31	HW01012032G5ZPC	3/8 X 1 HHCS	17
15	SB27-109	METERING SCALE	1	32	HW01016112G5ZPC	1/2 X 3 1/2 HHCS	2
16	AG50-093	DECAL; LIFT	1	33	HW03008016G5ZPC	1/4 X 1/2 CARRIAGE BOLT	12
17	AG80-079	MOUNT EXTENSION	2	34	HW03008024G5ZPC	1/4 X 3/4 CARRIAGE BOLT	2



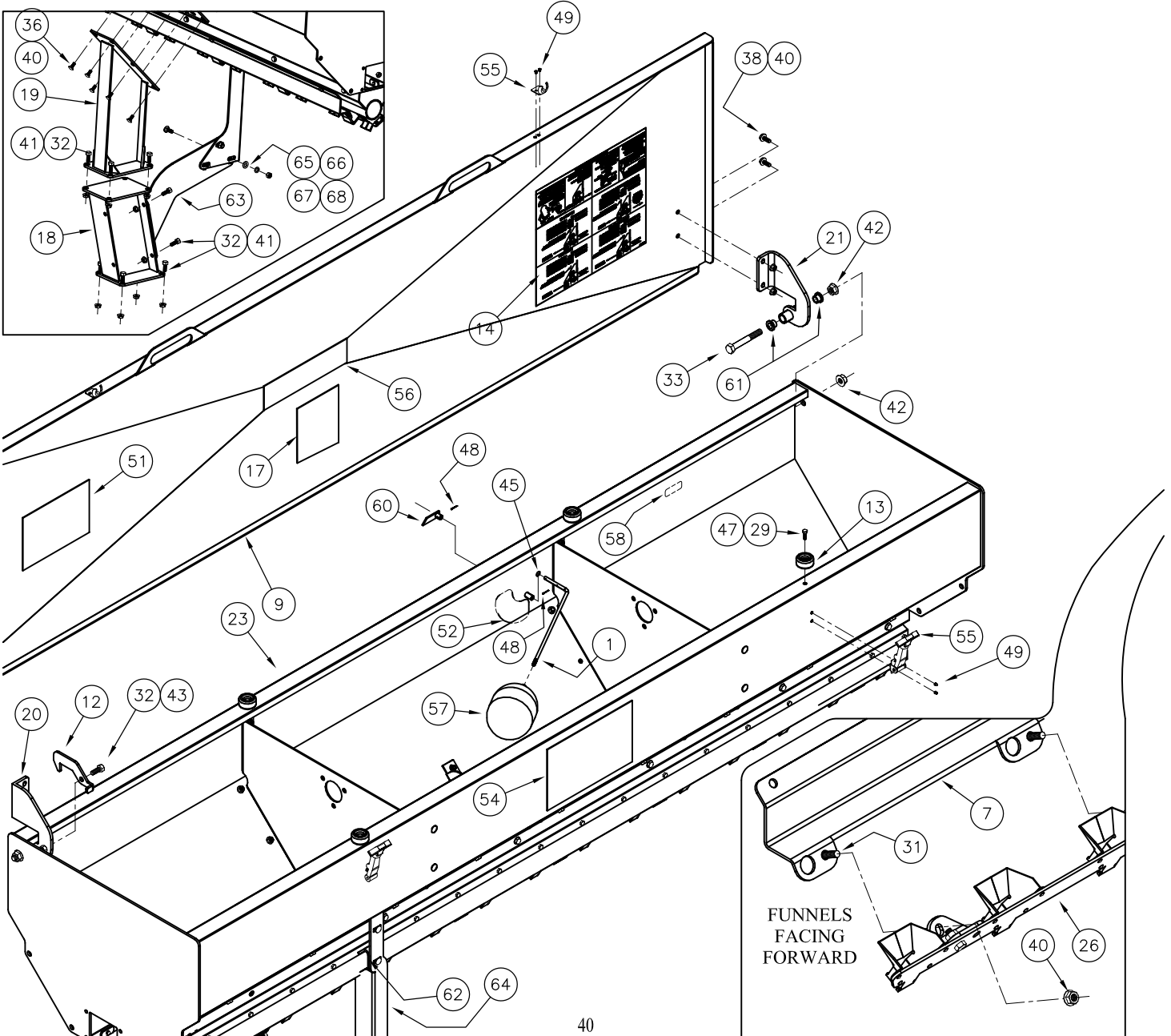
SEEDER - 72

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
35	HW03010032G5ZPC	5/16 X 1 CARRIAGE BOLT	12	52	SB50-045	SB WINDOW DECAL	1
36	HW06010016G5ZPC	5/16 X 1/2 FLG. LOCKSCREW	26	53	SB50-046	LOGO, FP TURF	1
37	HW06010024G5ZPC	5/16 X 3/4 FLG. LOCKSCREW	4	54	SB50-053	T-HANDLE DRAW LATCH	2
38	HW22008G5ZPC	1/4 FLANGE LOCKNUT	28	55	SB50-075	DECAL; NO FERTILIZER	1
39	HW22010G5ZPC	5/16 FLANGE LOCKNUT	38	56	SB50-086	HOPPER FLOAT	1
40	HW22012G5ZPC	3/8 FLANGE LOCKNUT	16	57	SB50-092	PATENT DECAL; SEEDER	1
41	HW22016G5ZPC	1/2 FLANGE LOCKNUT	4	58	SB80-015	METERING ADJ. BRACE	1
42	HW24012GBZPC	3/8 STOVER LOCKNUT	1	59	SB80-037	ARROW	1
43	HW25016G5SSC	1/2 JAM NUT SS	2	60	WB50-125	BUSH, 1/2 X 5/8 X 1/2 LG FLNG	4
44	HW30008TAZP	1/4 FLATWASHER	16	61	AG27-272	LOWER BRACKET CONNECTOR	2
45	HW31016TAZP	1/2 FLAT WASHER	2	62	AG27-273	LOWER REAR BRACKET	2
46	HW34008G5ZPC	1/4 TWO-WAY LOCKNUT	19	63	AG27-274	SEEDER REAR BRACKET	2
47	HW40003024ZP	3/32 X 3/4 COTTER PIN	2	64	HW03012032G5ZPC	3/8 X 1 CARRIAGE BOLT	6
48	HW41005008SS	5/32 X 1/8 - 1/4 RIVET	8	65	HW20012G5ZPC	3/8 HEX NUT	6
49	SB50-004	ADJUSTMENT BEARING	1	66	HW30012TAZP	3/8 STD. FLATWASHER	6
50	SB50-040	DECAL; CLEAN BOX	1	67	HW32012G5ZP	3/8 STD. LOCKWASHER	6
51	SB50-042	DECAL; SEED LEVEL	1				



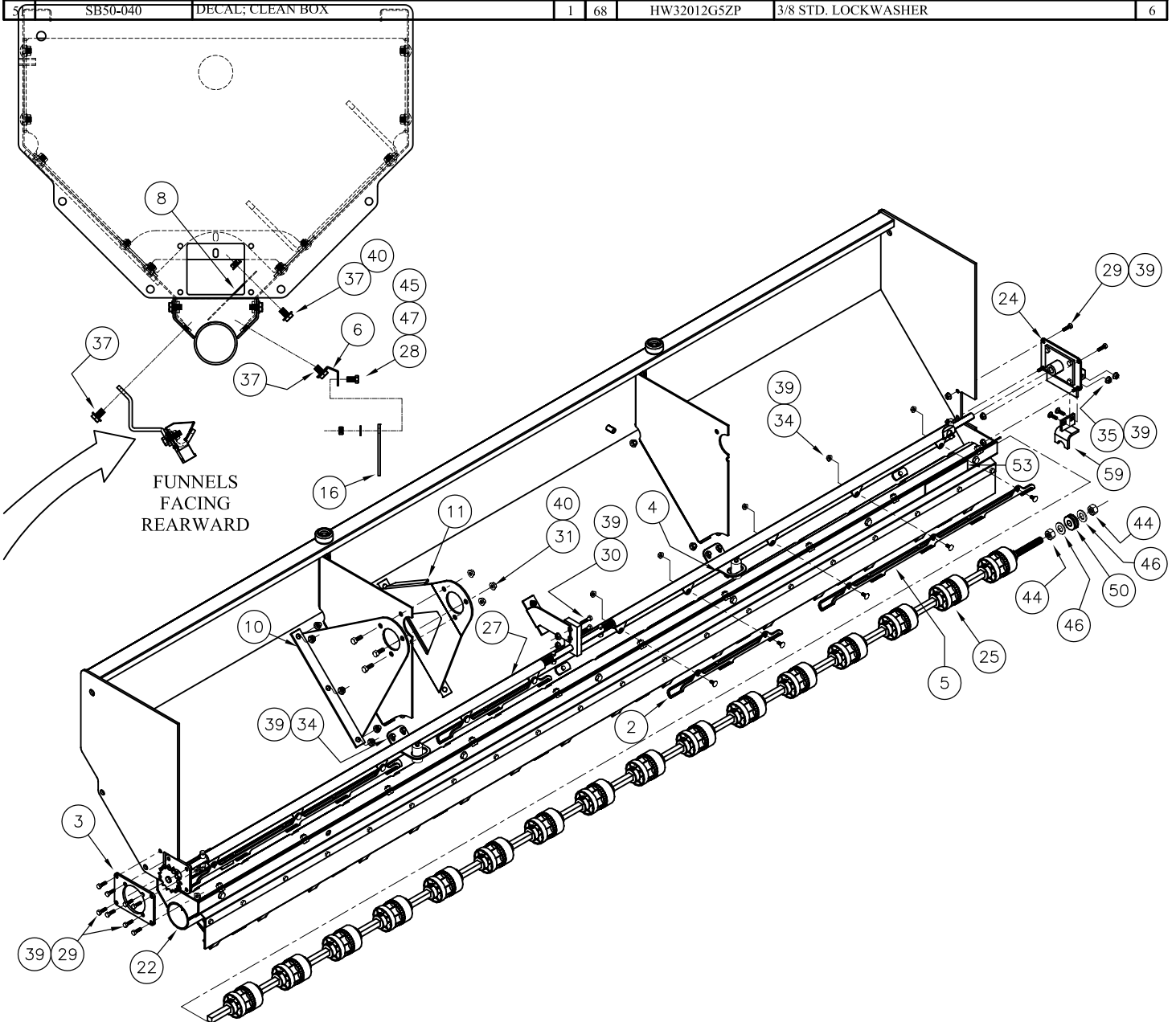
SEEDER -96

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AG26-025	SEED GAUGE ARM; AG	1	18	AG80-079	MOUNT EXTENSION	2
2	AG27-123	SIFTER; AG	2	19	AG80-080	SEEDER MOUNT; AG	2
3	AG27-125	SPROCKET PLATE	1	20	AG80-083	HINGE; LEFT	1
4	AG27-126	BUMPER RETAINER	2	21	AG80-084	HINGE; RIGHT	1
5	AG27-204	SIFTER; LONG	2	22	AG80-131	8" METERING TUBE; AG	1
6	AG27-206	8" SHIELD BRACKET	1	23	AG80-138	8" HOPPER; AG	1
7	AG27-207	8" SEED TRAY BRACKET	1	24	AG81-054	METERING ADJ. ASS'Y	1
8	AG27-210	8" BOX DIVIDER	1	25	AG81-056	8" FEED WHEEL ASS'Y (PAGE 51)	1
9	AG27-211	8" HOPPER LID; AG	1	26	AG81-069	8" SEED FUNNEL ASS'Y	1
10	AG27-214	LIFT GUSSET; LEFT	2	27	AG81-070	8" AGITATOR ASS'Y (PAGE 50)	1
11	AG27-215	LIFT GUSSET; RIGHT	2	28	HW01008016G5ZPC	1/4 X 1/2 HHCS	20
12	AG27-231	HINGE LATCH	1	29	HW01008024G5ZPC	1/4 X 3/4 HHCS	16
13	AG50-058	1 1/2 BUMPER W/ WASHER	4	30	HW01008032G5ZPC	1/4 X 1 HHCS	2
14	AG50-114	AG CALIBRATION DECAL	1	31	HW01010024G5ZPC	5/16 X 3/4 HHCS	14
15	SB27-109	METERING SCALE	1	32	HW01012032G5ZPC	3/8 X 1 HHCS	17
16	AG50-087	FLUTE SHIELD - 8"	1	33	HW01016112G5ZPC	1/2 X 3 1/2 HHCS	2
17	AG50-093	DECAL; LIFT	1	34	HW03008016G5ZPC	1/4 X 1/2 CARRIAGE BOLT	14



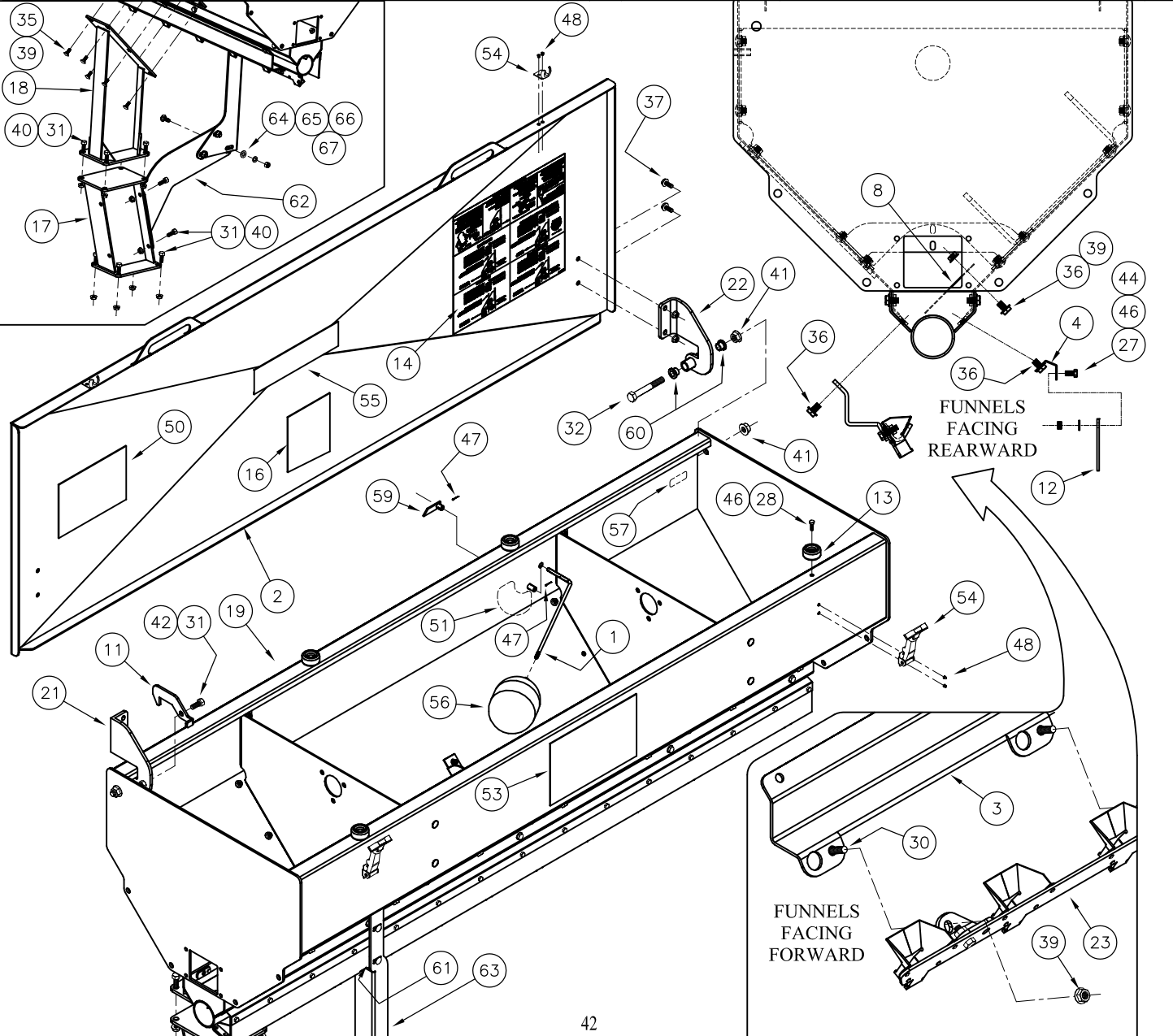
SEEDER - 96

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
35	HW03008024G5ZPC	1/4 X 3/4 CARRIAGE BOLT	2	52	SB50-042	DECAL; SEED LEVEL	1
36	HW03010032G5ZPC	5/16 X 1 CARRIAGE BOLT	12	53	SB50-045	SB WINDOW DECAL	1
37	HW06010016G5ZPC	5/16 X 1/2 FLG. LOCKSCREW	36	54	SB50-046	LOGO, FP TURF	1
38	HW06010024G5ZPC	5/16 X 3/4 FLG. LOCKSCREW	4	55	SB50-053	T-HANDLE DRAW LATCH	2
39	HW22008G5ZPC	1/4 FLANGE LOCKNUT	30	56	SB50-075	DECAL; NO FERTILIZER	1
40	HW22010G5ZPC	5/16 FLANGE LOCKNUT	40	57	SB50-086	HOPPER FLOAT	1
41	HW22012G5ZPC	3/8 FLANGE LOCKNUT	16	58	SB50-092	PATENT DECAL; SEEDER	1
42	HW22016G5ZPC	1/2 FLANGE LOCKNUT	4	59	SB80-015	METERING ADJ. BRACE	1
43	HW24012GBZPC	3/8 STOVER LOCKNUT	1	60	SB80-037	ARROW	1
44	HW25016G5SSC	1/2 JAM NUT SS	2	61	WB50-125	BUSH, 1/2 X 5/8 X 1/2 LG FLNG	4
45	HW30008TAZP	1/4 FLATWASHER	21	62	AG27-272	LOWER BRACKET CONNECTOR	2
46	HW31016TAZP	1/2 FLAT WASHER	2	63	AG27-273	LOWER REAR BRACKET	2
47	HW34008G5ZPC	1/4 TWO-WAY LOCKNUT	24	64	AG27-274	SEEDER REAR BRACKET	2
48	HW40003024ZP	3/32 X 3/4 COTTER PIN	2	65	HW03012032G5ZPC	3/8 X 1 CARRIAGE BOLT	6
49	HW41005008SS	5/32 X 1/8 - 1/4 RIVET	8	66	HW20012G5ZPC	3/8 HEX NUT	6
50	SB50-004	ADJUSTMENT BEARING	1	67	HW30012TAZP	3/8 STD. FLATWASHER	6
51	SB50-040	DECAL; CLEAN BOX	1	68	HW32012G5ZP	3/8 STD. LOCKWASHER	6



SEEDER -144

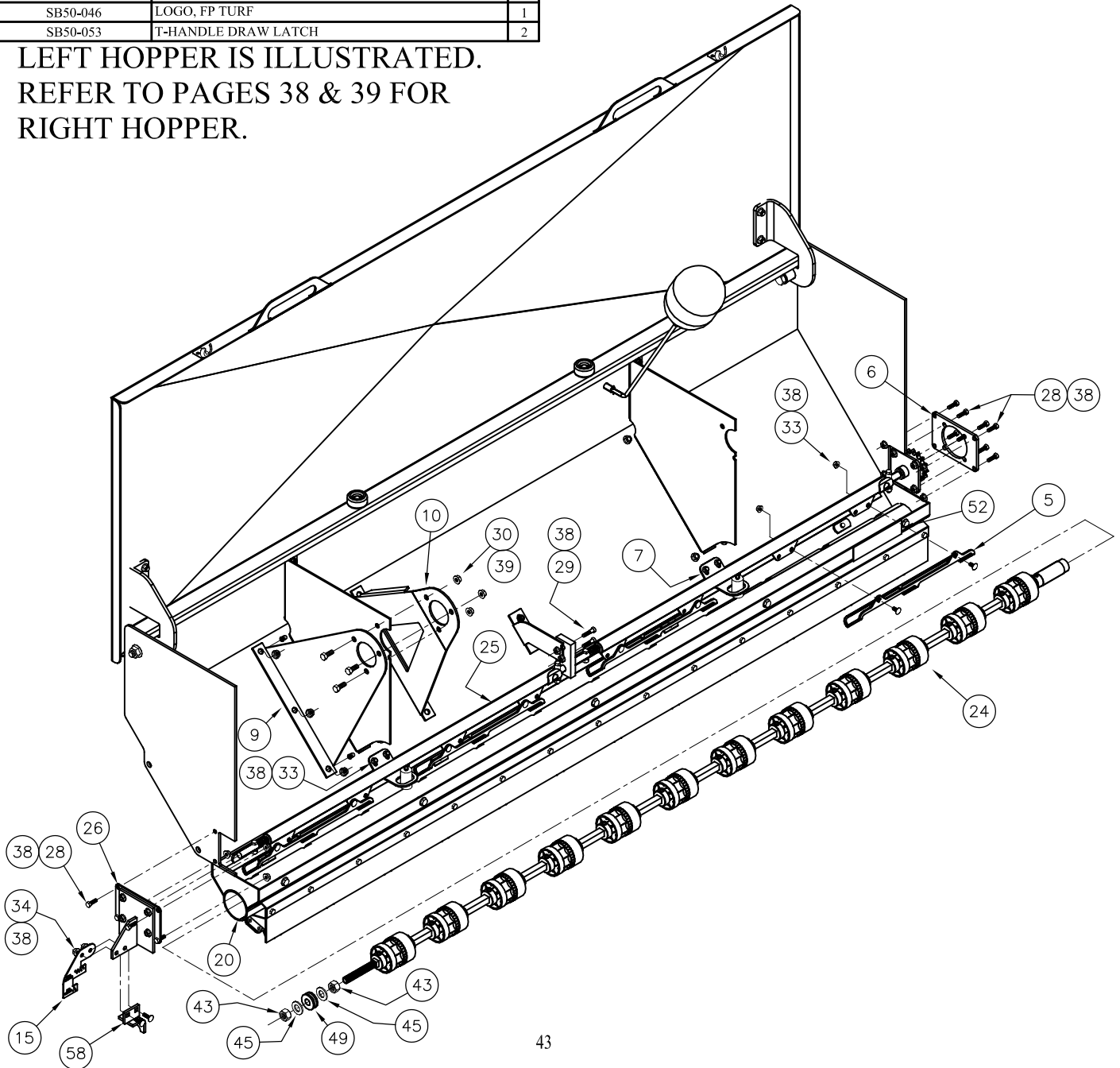
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AG26-025	SEED GAUGE ARM; AG	1	19	AG80-081	6' HOPPER; AG	1
2	AG27-114	6' HOPPER LID; AG	1	20	AG80-082	6' METERING TUBE; AG	1
3	AG27-119	6' SEED TRAY BRACKET	1	21	AG80-083	HINGE; LEFT	1
4	AG27-120	6' SHIELD BRACKET	1	22	AG80-084	HINGE; RIGHT	1
5	AG27-123	SIFTER; AG	4	23	AG81-040	6' SEED FUNNEL ASS'Y	1
6	AG27-125	SPROCKET PLATE	1	24	AG81-052	AUX. 6' FEED WHEEL ASS'Y (PAGE 51)	1
7	AG27-126	BUMPER RETAINER	2	25	AG81-053	6' AGITATOR ASS'Y (PAGE 50)	1
8	AG27-127	6' BOX DIVIDER	1	26	AG81-054	METERING ADJ. ASS'Y	1
9	AG27-214	LIFT GUSSET; LEFT	2	27	HW01008016G5ZPC	1/4 X 1/2 HHCS	15
10	AG27-215	LIFT GUSSET; RIGHT	2	28	HW01008024G5ZPC	1/4 X 3/4 HHCS	16
11	AG27-231	HINGE LATCH	1	29	HW01008032G5ZPC	1/4 X 1 HHCS	2
12	AG50-057	FLUTE SHIELD - 6'	1	30	HW01010024G5ZPC	5/16 X 3/4 HHCS	12
13	AG50-058	1 1/2 BUMPER W/ WASHER	4	31	HW01012032G5ZPC	3/8 X 1 HHCS	17
14	AG50-114	AG CALIBRATION DECAL	1	32	HW01016112G5ZPC	1/2 X 3 1/2 HHCS	2
15	AG27-298	METERING SCALE; AG	1	33	HW03008016G5ZPC	1/4 X 1/2 CARRIAGE BOLT	12
16	AG50-093	DECAL; LIFT	2	34	HW03008024G5ZPC	1/4 X 3/4 CARRIAGE BOLT	2
17	AG80-079	MOUNT EXTENSION	2	35	HW03010032G5ZPC	5/16 X 1 CARRIAGE BOLT	12
18	AG80-080	SEEDER MOUNT; AG	2	36	HW06010016G5ZPC	5/16 X 1/2 FLG. LOCKSCREW	26



SEEDER - 144

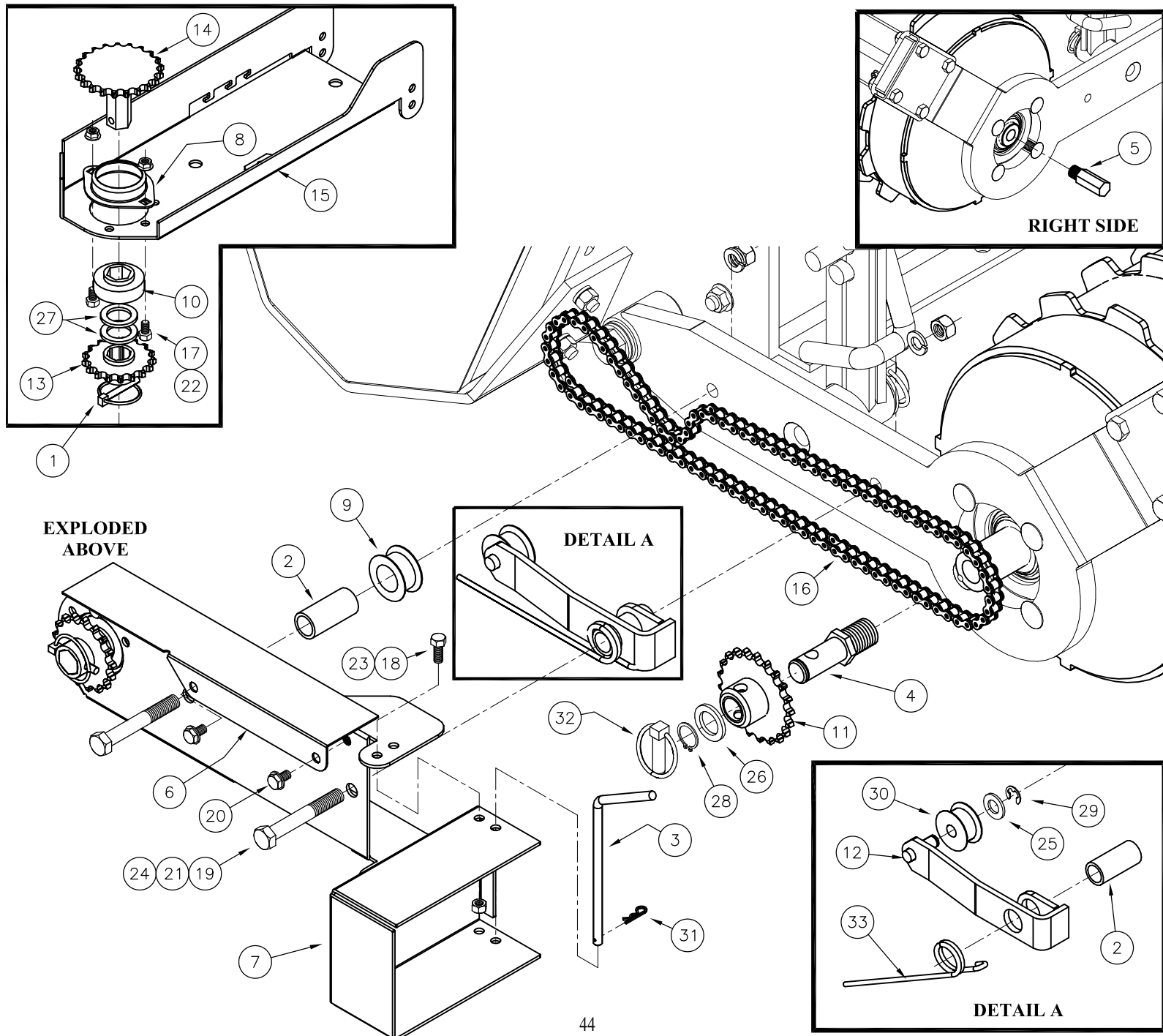
ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
37	HW06010024G5ZPC	5/16 X 3/4 FLG. LOCKSCREW	4	55	SB50-075	DECAL; NO FERTILIZER	1
38	HW22008G5ZPC	1/4 FLANGE LOCKNUT	28	56	SB50-086	HOPPER FLOAT	1
39	HW22010G5ZPC	5/16 FLANGE LOCKNUT	38	57	SB50-092	PATENT DECAL; SEEDER	1
40	HW22012G5ZPC	3/8 FLANGE LOCKNUT	16	58	SB80-015	METERING ADJ. BRACE	1
41	HW22016G5ZPC	1/2 FLANGE LOCKNUT	4	59	SB80-037	ARROW	1
42	HW24012GBZPC	3/8 STOVER LOCKNUT	1	60	WB50-125	BUSH, 1/2 X 5/8 X 1/2 LG FLNG	4
43	HW25016G5SSC	1/2 JAM NUT SS	2	61	AG27-272	LOWER BRACKET CONNECTOR	2
44	HW30008TAZP	1/4 FLATWASHER	16	62	AG27-273	LOWER REAR BRACKET	2
45	HW31016TAZP	1/2 FLAT WASHER	2	63	AG27-274	SEEDER REAR BRACKET	2
46	HW34008G5ZPC	1/4 TWO-WAY LOCKNUT	19	64	HW03012032G5ZPC	3/8 X 1 CARRIAGE BOLT	6
47	HW40003024ZP	3/32 X 3/4 COTTER PIN	2	65	HW20012G5ZPC	3/8 HEX NUT	6
48	HW41005008SS	5/32 X 1/8 - 1/4 RIVET	8	66	HW30012TAZP	3/8 STD. FLATWASHER	6
49	SB50-004	ADJUSTMENT BEARING	1	67	HW32012G5ZP	3/8 STD. LOCKWASHER	6
50	SB50-040	DECAL; CLEAN BOX	1				
51	SB50-042	DECAL; SEED LEVEL	1				
52	SB50-045	SB WINDOW DECAL	1				
53	SB50-046	LOGO, FP TURF	1				
54	SB50-053	T-HANDLE DRAW LATCH	2				

LEFT HOPPER IS ILLUSTRATED.
REFER TO PAGES 38 & 39 FOR
RIGHT HOPPER.



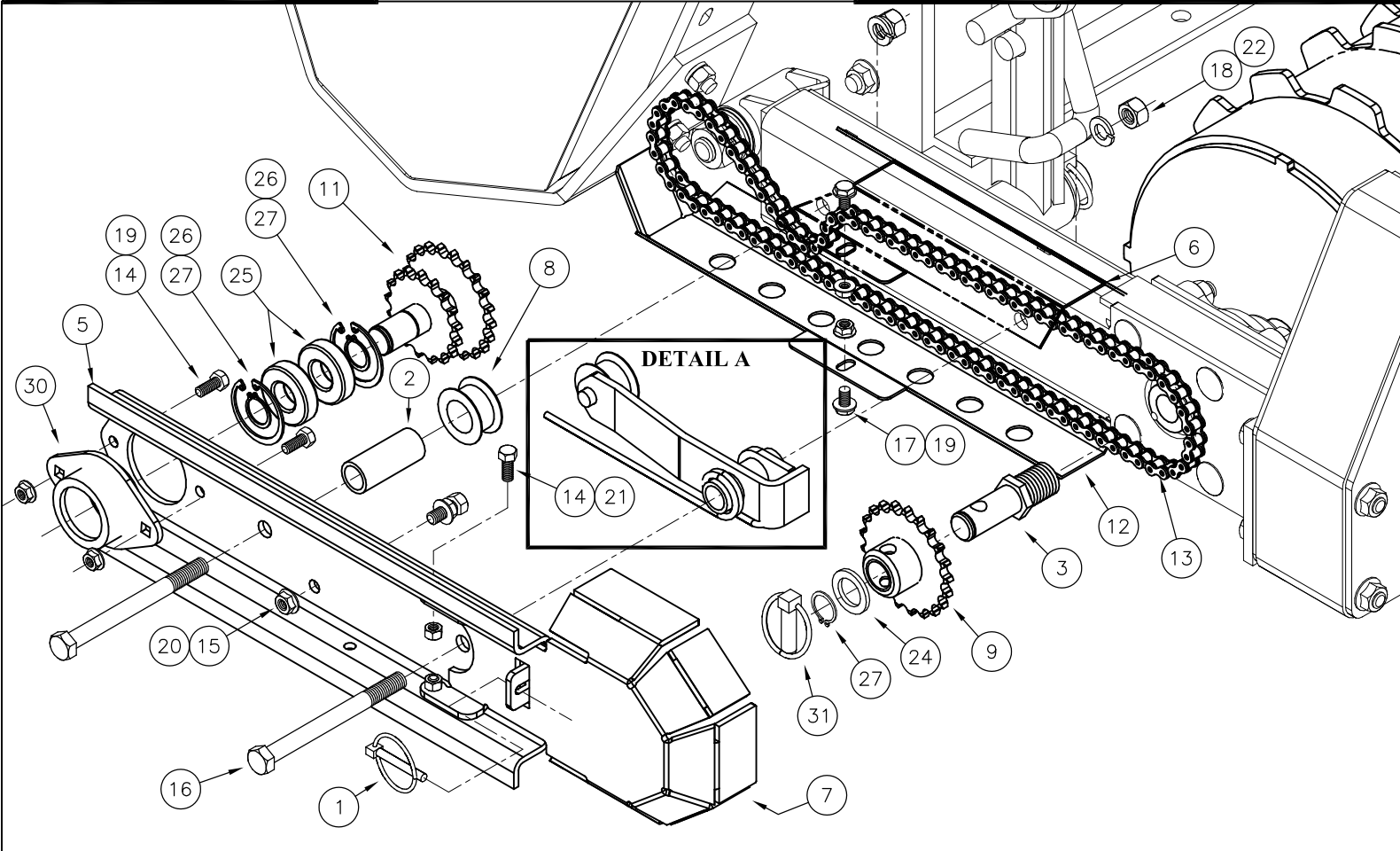
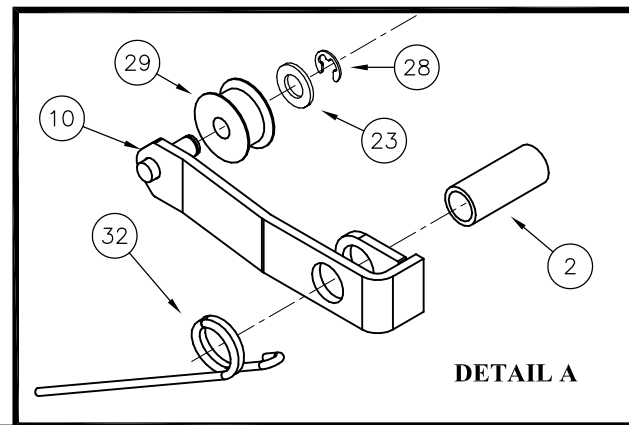
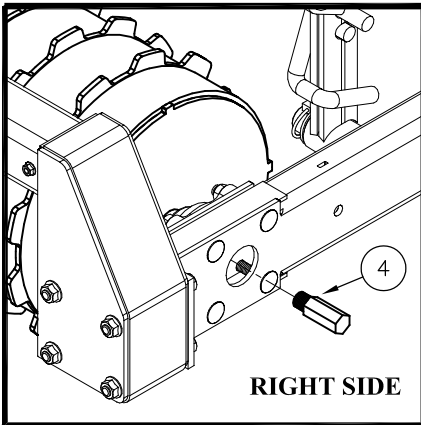
TRAIN (ROLLER) - AG72

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AE50-149	1/4 LYNCH PIN	1	18	HW01010024G5ZPC	5/16 3/4 HHCS	2
2	AG24-070	CHAIN PLATE PILLAR; AG72	2	19	HW01016112G5ZPC	1/2 X 3 1/2 HHCS	2
3	AG26-050	5/16 X 6 BENT ARM PIN	1	20	HW06010016G5ZPC	5/16 X 1/2 FLANGE LOCK SCREW	2
4	AG26-051	DRIVE PIN	1	21	HW20016G5ZPC	1/2 HEX NUTS	2
5	AG26-052	CALIBRATION PIN	1	22	HW22010G5ZPC	5/16 FLG LOCK NUT	2
6	AG27-228	CHAIN COVER; AG72	1	23	HW24010GBZPC	5/16 STOVER LOCK NUT	2
7	AG27-229	DRIVE COVER; AG72	1	24	HW32016G5ZP	1/2 LOCKWASHER	2
8	AG50-062	52mm STAMPING; FM	1	25	HW6001602814GPL	1/2 ID X 7/8 OD X 14 GA MA. BU.	1
9	AG50-063	LOWER CHAIN IDLER	1	26	HW6002804410GPL	7/8 X 1 3/8 X 10 GA MACH. BUSH.	1
10	AG50-064	7/8 HEX CYL. BRG.	1	27	HW6003204810GPL	1 X 1 1/2 X 10 GA MA. BUSH.	2
11	AG80-089	21 TOOTH DRIVE SPROCKET	1	28	SB50-030	7/8 EXT. SNAP RING	1
12	AG80-091	LOWER CHAIN TENSIONER	1	29	SB50-055	1/2 E-CLIP	1
13	AG80-099	17T X 7/8 HEX SPROCKET	1	30	SB50-059	SHUTTLE IDLER	1
14	AG80-145	CLUSTER STACK	1	31	SE50-006	1/4 - 5/16 HAIRPIN COTTER	1
15	AG80-146	LOWER CHAIN COVER; AG72	1	32	SE50-035	HITCH PIN	1
16	FA50-035	#40 X 98 P CHAIN	1	33	WB50-040	SPRING, TORSION LH 1 3/16 ID X 7	1
17	HW01010016G5ZPC	5/16 X 1/2 HHCS	2				



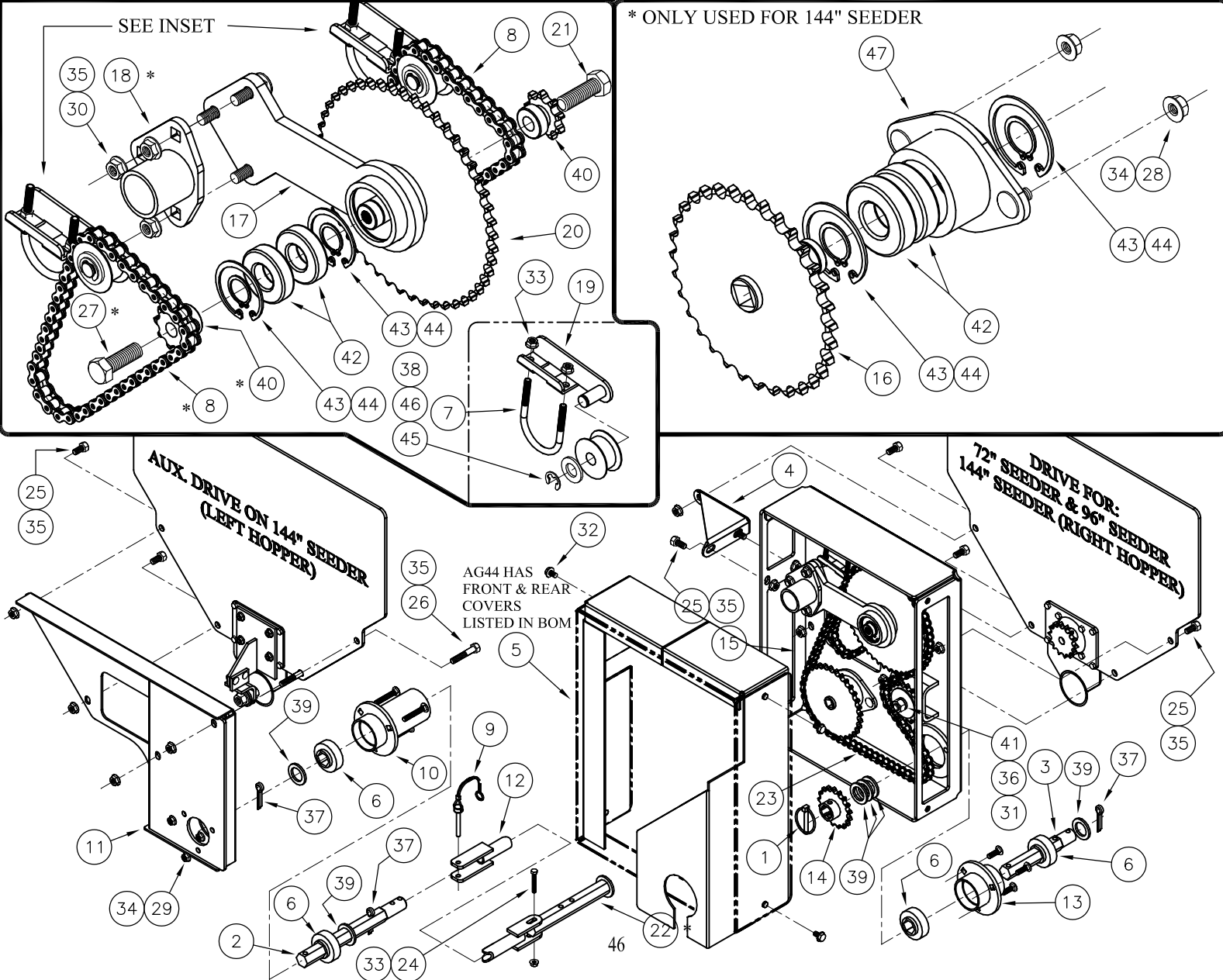
TRAIN (ROLLER) - AG96 & AG144

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AE50-149	1/4 LYNCH PIN	1	17	HW06010016G5ZPC	5/16 X 1/2 FLANGE LOCK SCREW	2
2	AG24-043	CHAIN PLATE PILLAR	2	18	HW20016G5ZPC	1/2 HEX NUTS	2
3	AG26-051	DRIVE PIN	1	19	HW22010G5ZPC	5/16 FLG LOCK NUT	4
4	AG26-052	CALIBRATION PIN	1	20	HW22012G5ZPC	3/8 FLG LOCK NUT	2
5	AG27-129	LOWER CHAIN PLATE	1	21	HW24010GBZPC	5/16 STOVER LOCK NUT	2
6	AG27-167	LOWER CHAIN COVER; TOP	1	22	HW32016G5ZP	1/2 LOCKWASHER	2
7	AG27-168	DRIVE SPROCKET COVER	1	23	HW6001602814GPL	1/2 ID X 7/8 OD X 14 GA MA. BU.	1
8	AG50-063	LOWER CHAIN IDLER	1	24	HW6002804410GPL	7/8 X 1 3/8 X 10 GA MACH. BUSH.	1
9	AG80-089	21 TOOTH DRIVE SPROCKET	1	25	SB50-024	1 7/8 X 7/8 BALL BEARING	2
10	AG80-091	LOWER CHAIN TENSIONER	1	26	SB50-028	1 7/8 INT. SNAP RING	2
11	AG80-092	21/17T DBL CLUSTER	1	27	SB50-030	7/8 EXT. SNAP RING	3
12	AG80-113	LOWER CHAIN COVER; BOTTOM	1	28	SB50-055	1/2 E-CLIP	1
13	FA50-035	#40 X 98 P CHAIN	1	29	SB50-059	SHUTTLE IDLER	1
14	HW01010024G5ZPC	5/16 X 3/4 HHCS	4	30	SB80-007	SEED BOX IDLER HUB	1
15	HW01012024G5ZPC	3/8 X 1 HHCS	1	31	SE50-035	HITCH PIN	1
16	HW01016176G5ZPC	1/2 X 5 1/2 HHCS	2	32	WB50-040	SPRING, TORSION LH 1 3/16 ID X 7	1



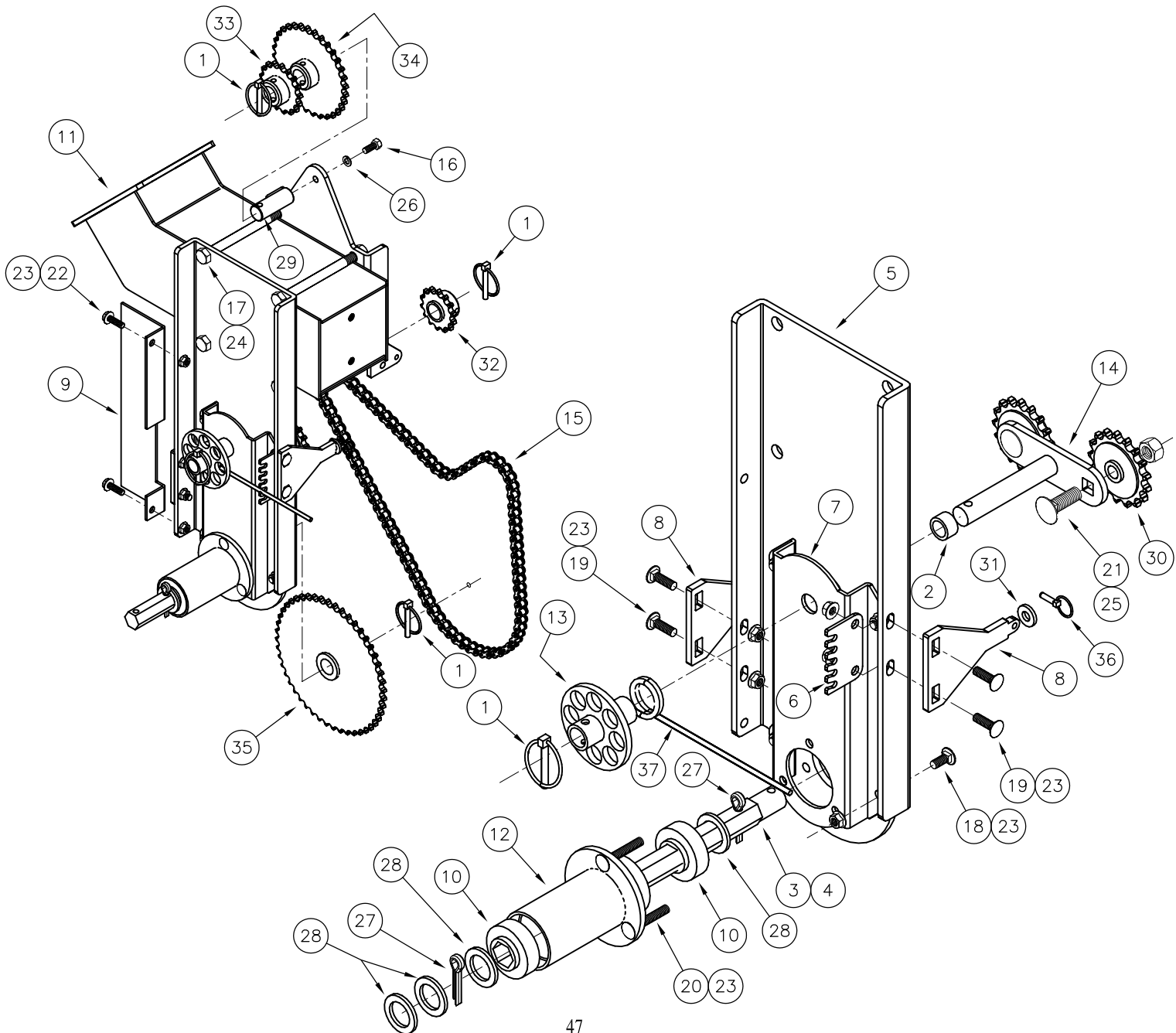
TRAIN (HOPPER)

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AE50-149	1/4 LYNCH PIN	1	24	HW01008048G5ZPC	1/4 X 1 1/2 HHCS	1
2	AG26-027	7/8 HEX J. SHAFT SPINDLE	1	25	HW01012024G5ZPC	3/8 X 3/4 HHCS	8
3	AG26-038	UPPER TRAIN SHAFT	1	26	HW01012064G5ZPC	3/8 X 2 HHCS	2
4	AG80-107	BOX/TRAIN CONNECTOR	1	27	HW01016048G5ZPC*	1/2 X 1 1/2 HHCS	1
5	AG27-194	SHROUD	1	28	HW03010024G5ZPC	5/16 X 3/4 CARRIAGE BOLT	2
	AG27-220*	FRONT TRAIN COVER	1	29	HW03010056G5ZPC	5/16 X 1 3/4 CARRIAGE BOLT	3
	AG27-221*	REAR TRAIN COVER	1	30	HW03012040G5ZPC	3/8 X 1 1/4 CARRIAGE BOLT	3
6	AG50-064	7/8 HEX CYL. BRG.	4	31	HW03016056G5ZPC	1/2 X 1 1/2 CARRIAGE BOLT	1
7	AG50-067	1 3/4 X 2 3/4 X 1/4 U-BOLT	2	32	HW06010016G5ZPC	5/16 X 1/2 FLANGE LOCK SCREW	4
8	AG50-073	#40 CHAIN X 44 LINKS	2	33	HW22008G5ZPC	1/4 FLANGE LOCKNUT	5
9	AG50-094	1/4 X 2 TAB LOCK PIN	1	34	HW22010G5ZPC	5/16 FLANGE LOCKNUT	5
10	AG80-095	JACK SHAFT EXT. HUB	1	35	HW22012G5ZPC	3/8 FLANGE LOCKNUT	13
11	AG80-096	INTER. CARRIER	1	36	HW24016GBZPC	1/2 STOVER LOCKNUT	1
12	AG80-097	TRAIN J. SHAFT	1	37	HW40008048ZP	1/4 X 1 1/2 COTTER PIN	2
13	AG80-098	TRAIN DRIVEN HUB	1	38	HW6001602814GPL	1/2 ID X 7/8 OD X 14 GA MA. BU.	1
14	AG80-099	17T X 7/8 HEX SPROCKET	1	39	HW6003204810GPL	1 ID X 1 1/2 OD X 10 GA MA. BU.	4
15	AG80-100	TRAIN BOX; AG	1	40	SB50-020	#40 TYPE B 9 TOOTH SPROCKET	2
16	AG80-101	METERING SPINDLE	1	41	SB50-023	#40 CHAIN IDLER	1
17	AG80-102	REDUCTION SPINDLE HUB	1	42	SB50-024	1 7/8 X 7/8 BALL BEARING	4
18	AG80-103*	REDUCER EXTENSION	1	43	SB50-028	1 7/8 INT. SNAP RING	4
19	AG80-104	REDUCTION IDLER	2	44	SB50-030	7/8 EXT. SNAP RING	4
20	AG80-105	REDUCTION SPINDLE	1	45	SB50-055	1/2 E-CLIP	1
21	AG80-110	1/2 X 1 1/2 HHCS LH	1	46	SB50-059	SHUTTLE IDLER	1
22	AG80-141	7/8 HEX DRIVEN SPINDLE	1	47	SB80-002	SEED BOX ADJUSTMENT HUB	1
23	FA50-035	#40 X 98 P CHAIN	1				



TRAIN (TOOL BAR)

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AE50-149	1/4 LYNCH PIN	4	20	HW03010064G5ZPC	5/16 X 2 CARRIAGE BOLT	3
2	AG24-054	RADIAL SPACER	1	21	HW03016048G5ZPC	1/2 X 1 1/2 CARRIAGE BOLT	2
3	AG26-037	LOWER TRAIN SHAFT; AG144	1	22	HW06010024G5ZPC	5/16 X 3/4 FLANGE LOCK SCREW	2
4	AG26-039	LOWER TRAIN SHAFT; AG72	1	23	HW22010G5ZPC	5/16 FLG LOCK NUT	13
5	AG27-132	TRAIN; AG	1	24	HW22016G5ZPC	1/2 FLG LOCK NUT	4
6	AG27-173	SPRING TENSION PLATE	1	25	HW24016GBZPC	1/2 STOVER LOCKNUT	2
7	AG80-159	CENTER RIGIDIZER	1	26	HW32010G5ZP	5/16 STD. LOCKWASHER	1
8	AG27-201	SHIELD RECEIVER	2	27	HW40008048ZP	1/4 X 1 1/2 COTTER PIN	2
9	AG27-203	OUTER COVER	1	28	HW6003204810GPL	1 ID X 1 1/2 OD X 10 GA MA. BU.	4
10	AG50-064	7/8 HEX CYL. BRG.	2	29	SB26-011	SPROCKET BANK	1
11	AG80-094	TRAIN TOOL BAR	1	30	SB50-023	#40 CHAIN IDLER	2
12	AG80-095	JACK SHAFT EXT. HUB	1	31	SB50-063	3/8 RUBBER FLAT WASHER	2
13	AG80-111	RADIAL CATCH	1	32	SB80-018	14 TOOTH TRAIN SPROCKET	1
14	AG80-114	IDLER CROSS	1	33	SB80-019	17 TOOTH TRAIN SPROCKET	1
15	FA50-035	#40 X 98 P CHAIN	3	34	SB80-020	32 TOOTH TRAIN SPROCKET	1
16	HW01010024G5ZPC	5/16 X 3/4 HHCS	1	35	SB80-021	48 TOOTH TRAIN SPROCKET	1
17	HW01016192G5ZPC	1/2 X 6 HHCS	4	36	UA50-007	3/16 X 1 1/4 LYNCH PIN	2
18	HW03010024G5ZPC	5/16 X 3/4 CARRIAGE BOLT	4	37	SB50-097	SPRING, TORSION LH 0.250 X 2 X 8	1
19	HW03010032G5ZPC	5/16 X 1 CARRIAGE BOLT	4				

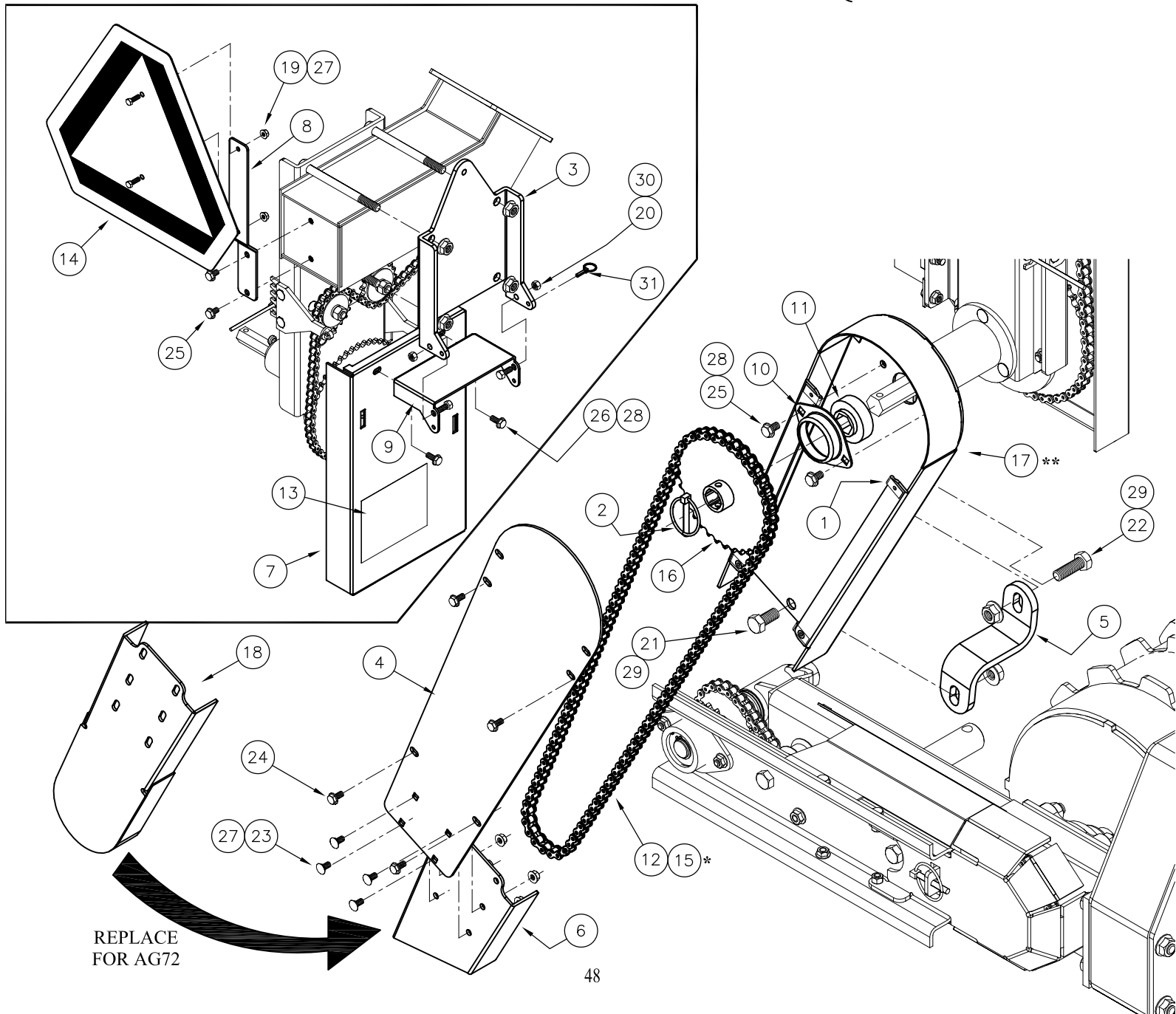


TRAIN (INTERMEDIATE)

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AE50-057	1/4 - 28 U NUT	4	17	AG80-112 **	CHAIN COVER BACK	1
2	AE50-149	1/4 LYNCH PIN	1		AG80-160	INTER. CHAIN COVER	1
3	AG27-133	TRAIN CLAMPING PLATE	1	18	AG80-147	OUTER CLUSTER COVER	1
4	AG27-165	CHAIN COVER FRONT	1	19	HW01008024G5ZPC	1/4 X 3/4 HHCS	2
5	AG27-176	CHAIN COVER BRACKET	1	20	HW01010024G5ZPC	5/16 X 3/4 HHCS	2
6	AG27-177	LOWER GAURD	1	21	HW01016032G5ZPC	1/2 X 1 HHCS	1
7	AG27-182	INTERCHANGE SHIELD	1	22	HW01016048G5ZPC	1/2 X 1 1/2 HHCS	1
8	AG27-200	SMV BRACKET	1	23	HW03008016G5ZPC	1/4 X 1/2 CARRIAGE BOLT	4
9	AG27-202	INTERCHANGE HANGER	1	24	HW06008016G5ZPC	1/4 X 1/2 FLANGE LOCK SCREW	4
10	AG50-062	52mm STAMPING; FM	1	25	HW06010016G5ZPC	5/16 X 1/2 FLG LOCK SCREW	4
11	AG50-064	7/8 HEX CYL. BRG.	1	26	HW06010024G5ZPC	5/16 X 3/4 FLG LOCK SCREW	2
12	AG50-070	#40 CHAIN X 128 LINKS	1	27	HW22008G5ZPC	1/4 FLANGE LOCK NUT	4
13	AG50-081	DECAL; CHAIN ROUTE	1	28	HW22010G5ZPC	5/16 FLANGE LOCKNUT	4
14	AG50-084	SMV SIGN	1	29	HW22016G5ZPC	1/2 FLANGE LOCK NUT	2
15	AG50-098	#40 CHAIN X 10 LINKS	1	30	HW24010GBZPC	5/16 STOVER LOCKNUT	2
16	AG80-090	36T X 7/8 HEX BORE SPROCKET	1	31	UA50-007	3/16 X 1 1/4 LYNCH PIN	2

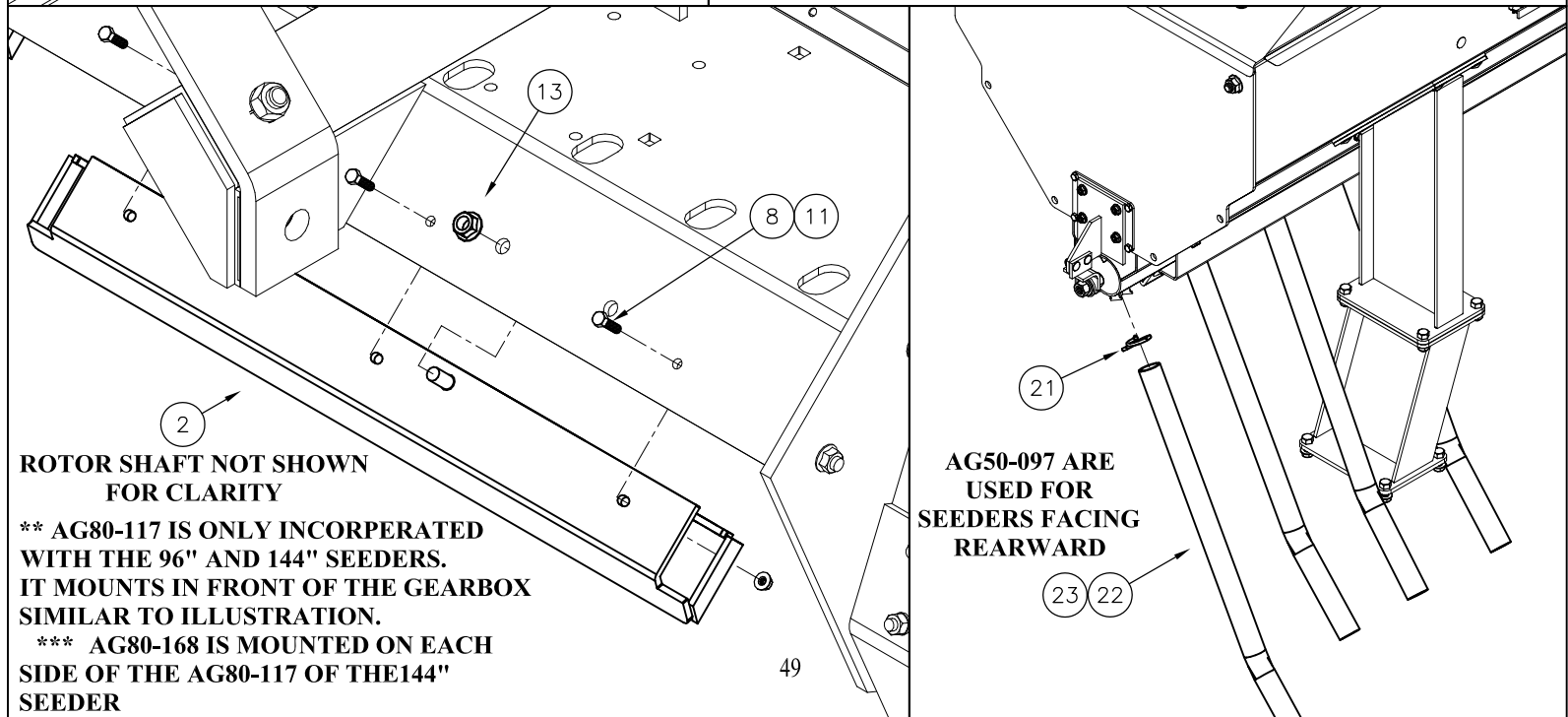
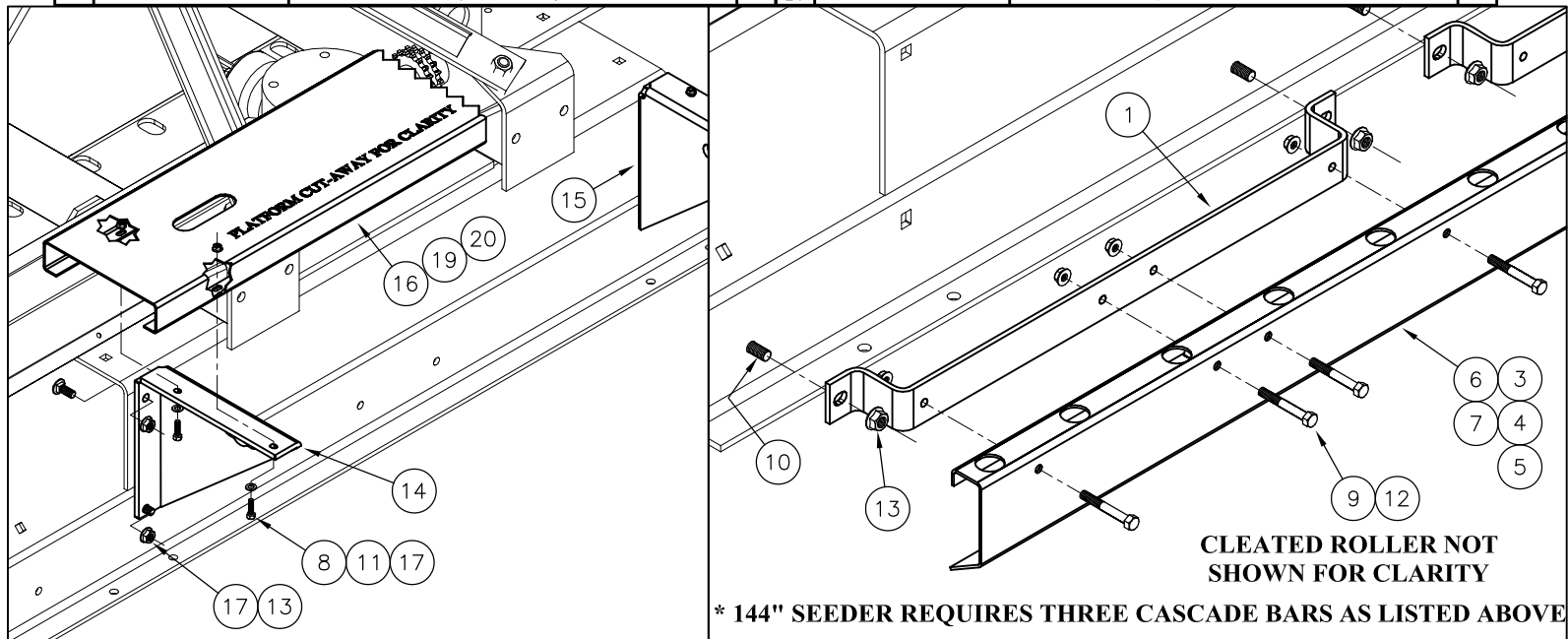
* USED IN ADDITION TO AG50-070
WHEN HOPPER FACING REARWARD

** SERIAL #'S { 6' SEEDER 101 THRU 130
8' SEEDER 101 THRU 237
12' SEEDER 101 THRU 146



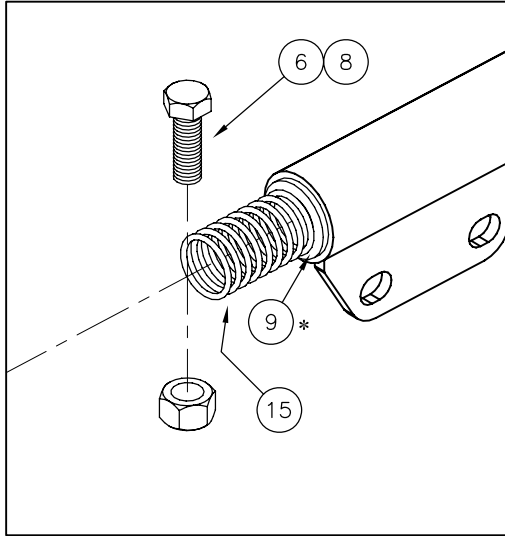
SEED DELIVERY & PLATFORM

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AG27-155	REAR SEED BAR HOLDER (72" & 96" SEEDER)	2	12	HW22010G5ZPC	5/16 FLG LOCK NUT (96" SEEDER)	18
	AG27-155	REAR SEED BAR HOLDER (144" SEEDER)	3		HW22012G5ZPC	3/8 FLG LOCK NUT (72" & 96" SEEDER)	8
2	AG80-161	FRONT SEED BAR; AG144; LEFT	1		HW22012G5ZPC	3/8 FLG LOCK NUT (144" SEEDER)	12
	AG80-162	FRONT SEED BAR; AG144; RIGHT	1	13	HW22016G5ZPC	1/2 FLG LOCK NUT (72" & 96" SEEDER)	11
	AG80-163	FRONT SEED BAR; AG72/96; LEFT	1		HW22016G5ZPC	1/2 FLG LOCK NUT (144" SEEDER)	13
	AG80-164	FRONT SEED BAR; AG72/96; RIGHT	1	14	AG80-108	PLATFORM BRACKET; LEFT	1
	AG80-117	FRONT SEED BAR; AG96/144** (12ft)	1	15	AG80-109	PLATFORM BRACKET; RIGHT	1
	AG80-117	FRONT SEED BAR; AG96/144** (8 FT)	1	16	AG81-068	5' PLATFORM (72" SEEDER)	1
3	AG80-132*	CASCADE BAR; CENTER	1	17	HW03016040G5ZPC	1/2 X 1 1/4 CARRIAGE BOLT	4
4	AG80-133*	CASCADE BAR; LEFT	1	18	HW30010TAZP	5/16 FLATWASHER	4
5	AG80-134*	CASCADE BAR; RIGHT	1	19	AG81-057	7" PLATFORM (96" SEEDER)	1
6	AG80-135	CASCADE BAR; AG72	1	20	AG81-038	10" PLATFORM (144" SEEDER)	1
7	AG80-136	CASCADE BAR; AG96	1	21	SB50-062	1 3/8 HOSE CLAMP (72" SEEDER)	12
8	HW01010032G5ZPC	5/16 X 1 HHCS (72" SEEDER)	10		SB50-062	1 3/8 HOSE CLAMP (96" SEEDER)	16
	HW01010032G5ZPC	5/16 X 1 HHCS (96" SEEDER)	12		SB50-062	1 3/8 HOSE CLAMP (144" SEEDER)	24
	HW01010032G5ZPC	5/16 X 1 HHCS (144" SEEDER)	18	22	AG50-074	1 ID X 1 1/4 OD X 23 1/2 CVT (72" SEEDER)	12
9	HW01012088G5ZPC	3/8 X 2 3/4 HHCS (72" & 96" SEEDER)	12		AG50-074	1 ID X 1 1/4 OD X 23 1/2 CVT (96" SEEDER)	16
	HW01012088G5ZPC	3/8 X 2 3/4 HHCS (144" SEEDER)	12		AG50-074	1 ID X 1 1/4 OD X 23 1/2 CVT (144" SEEDER)	24
10	HW01016032G5ZPC	1/2 X 1 HHCS (72" & 96" SEEDER)	4	23	AG50-097	1 ID X 1 1/4 OD X 30 CVT (72" SEEDER)	12
	HW01016032G5ZPC	1/2 X 1 HHCS (144" SEEDER)	6		AG50-097	1 ID X 1 1/4 OD X 30 CVT (96" SEEDER)	16
11	HW22010G5ZPC	5/16 FLG LOCK NUT (72" SEEDER)	10		AG50-097	1 ID X 1 1/4 OD X 30 CVT (144" SEEDER)	24
	HW22010G5ZPC	5/16 FLG LOCK NUT (96" SEEDER)	12	24	AG80-168	INTER. SEED BAR; AG144	2

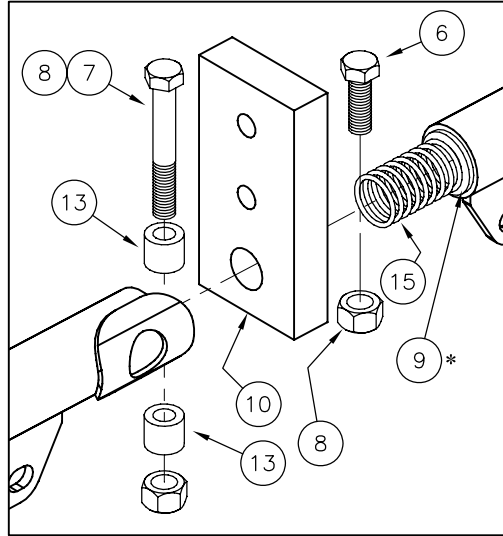


AGITATOR ASSEMBLY

ITEM	PART NO	DESCRIPTION	QTY	ITEM	PART NO	DESCRIPTION	QTY
1	AG80-085	AGITATOR SPINDLE - 6' (72" SEEDER)	1	9	HW6001602814GPL	1/2 OD X 7/8 OD X 14 GA MA. BU.	3
2	AG80-086	SIFTER HUB	1	10	SB50-001	AGITATOR BEARING	2
3	AG80-087	SIFTER SHUTTLE; AG (72" SEEDER)	2	11	SB50-002	SHUTTLE BUMPER	2
4	AG80-115	SIFTER SHUTTLE; LONG (96" SEEDER)	2	12	SB50-019	1/2 X 1/2 FLG. BRG.	6
5	AG80-137	AGITATOR SPINDLE - 8' (96" SEEDER)	1	13	SB50-025	1/4 X 1/2 X 1/2 BRZ. BRG.	4
6	HW01008032G5ZPC	1/4 X 1 HHCS	2	14	SB50-055	1/2 E-CLIP	1
7	HW01008064G5ZPC	1/4 X 2 HHCS	2	15	SB50-080	SIFTER SPRING - SB40	2
8	HW34008G5ZPC	1/4 TWO WAY LOCK NUT	4				



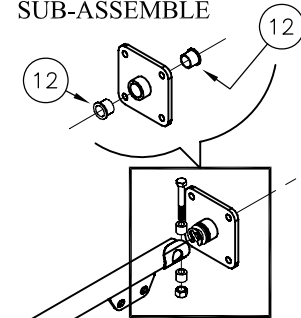
DETAIL A



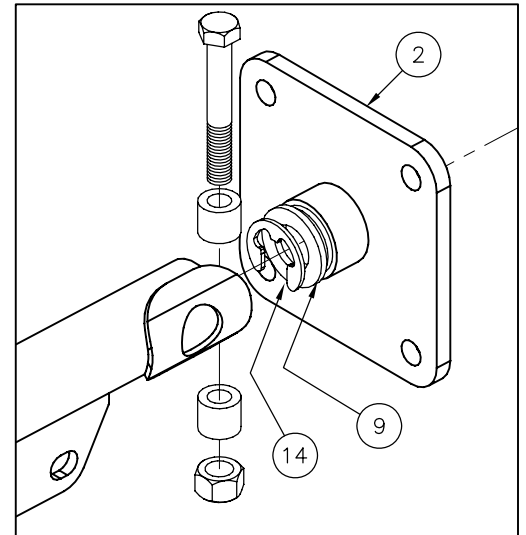
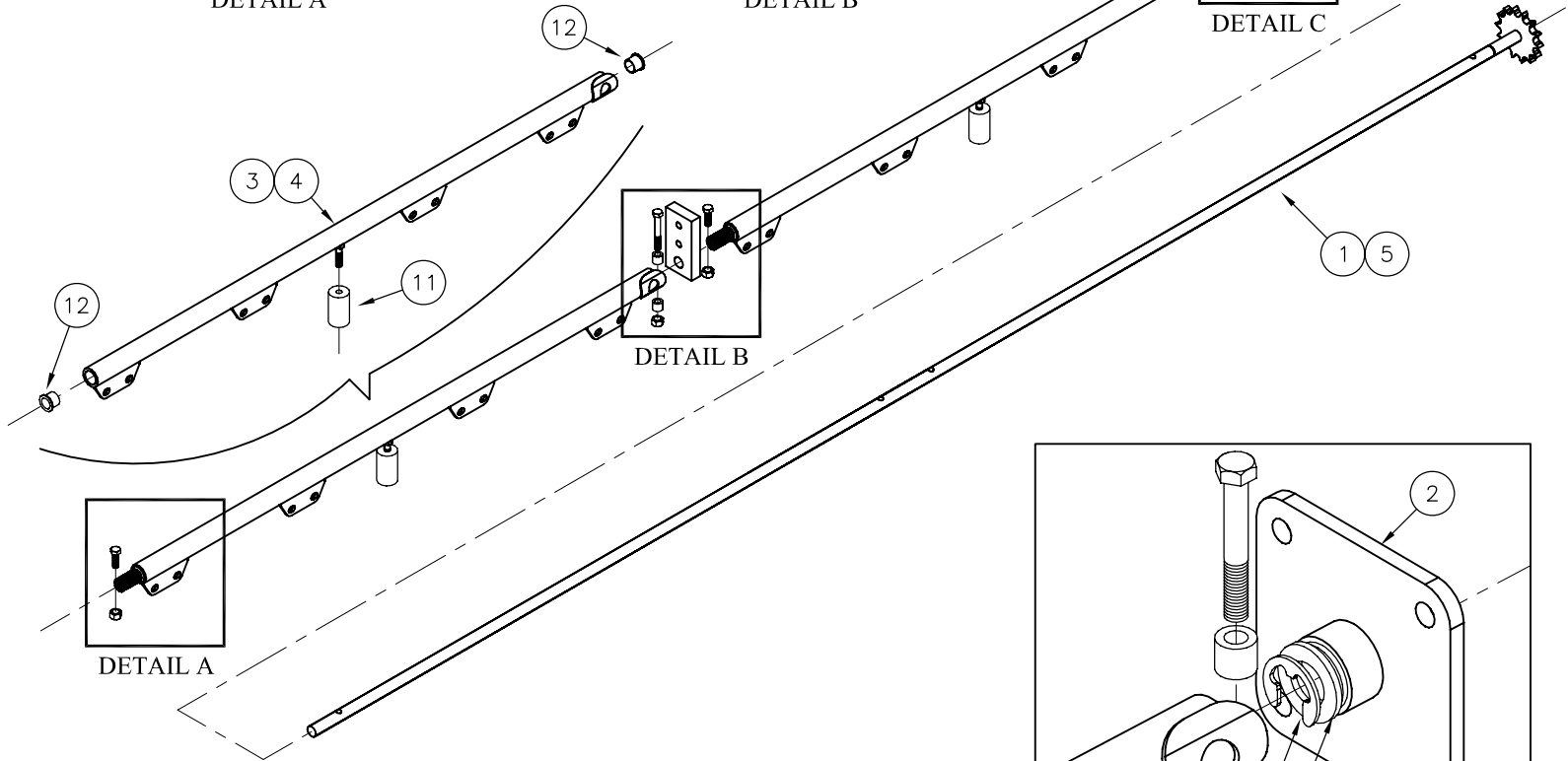
DETAIL B

*BUSHING PLACED BETWEEN
SPRING AND BEARING

SUB-ASSEMBLY



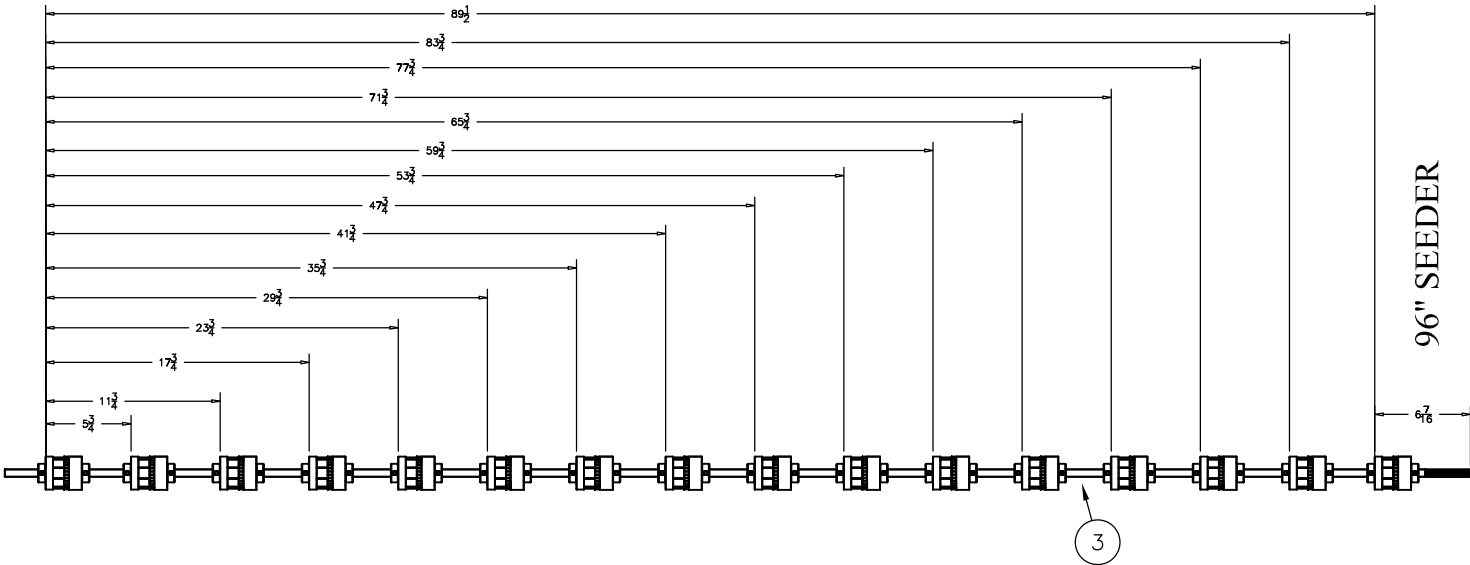
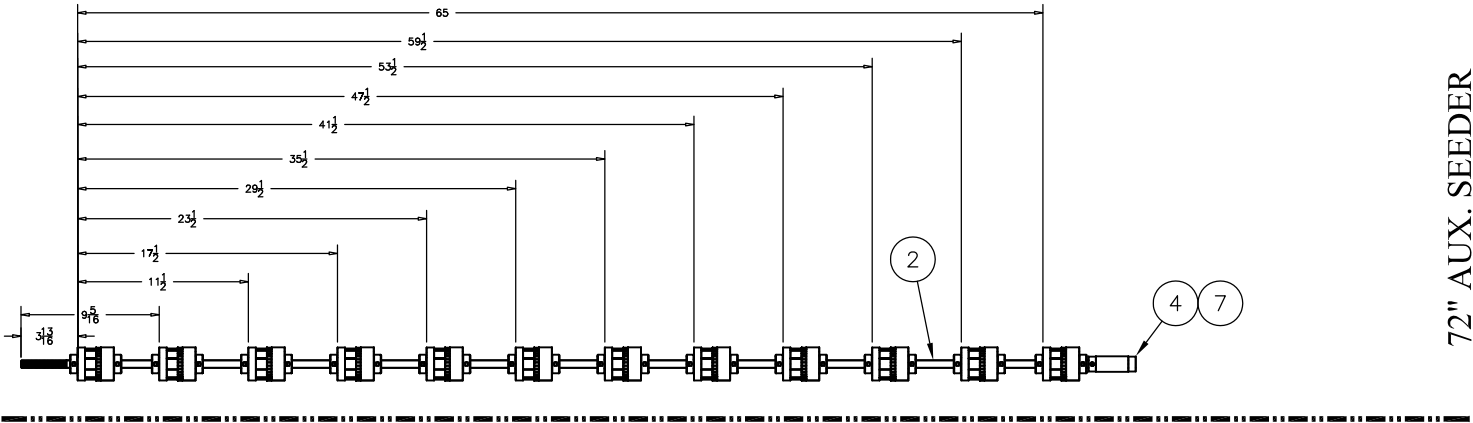
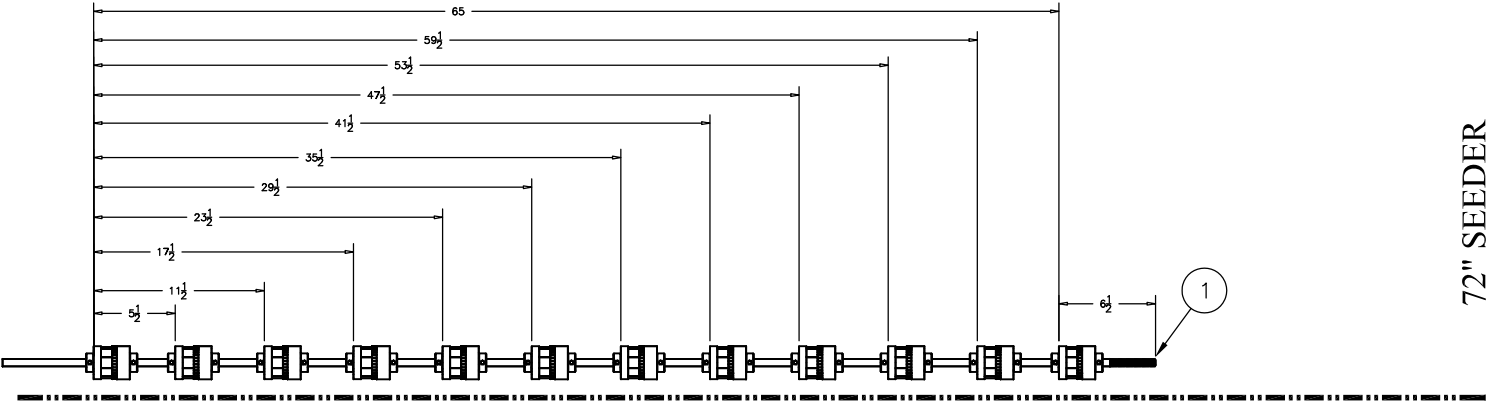
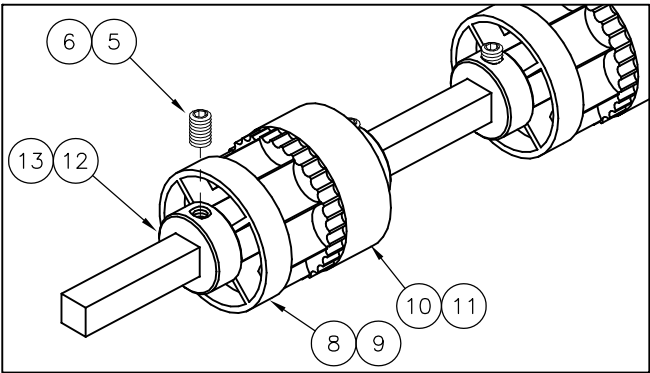
DETAIL C



DETAIL C

FEED WHEEL SHAFTS

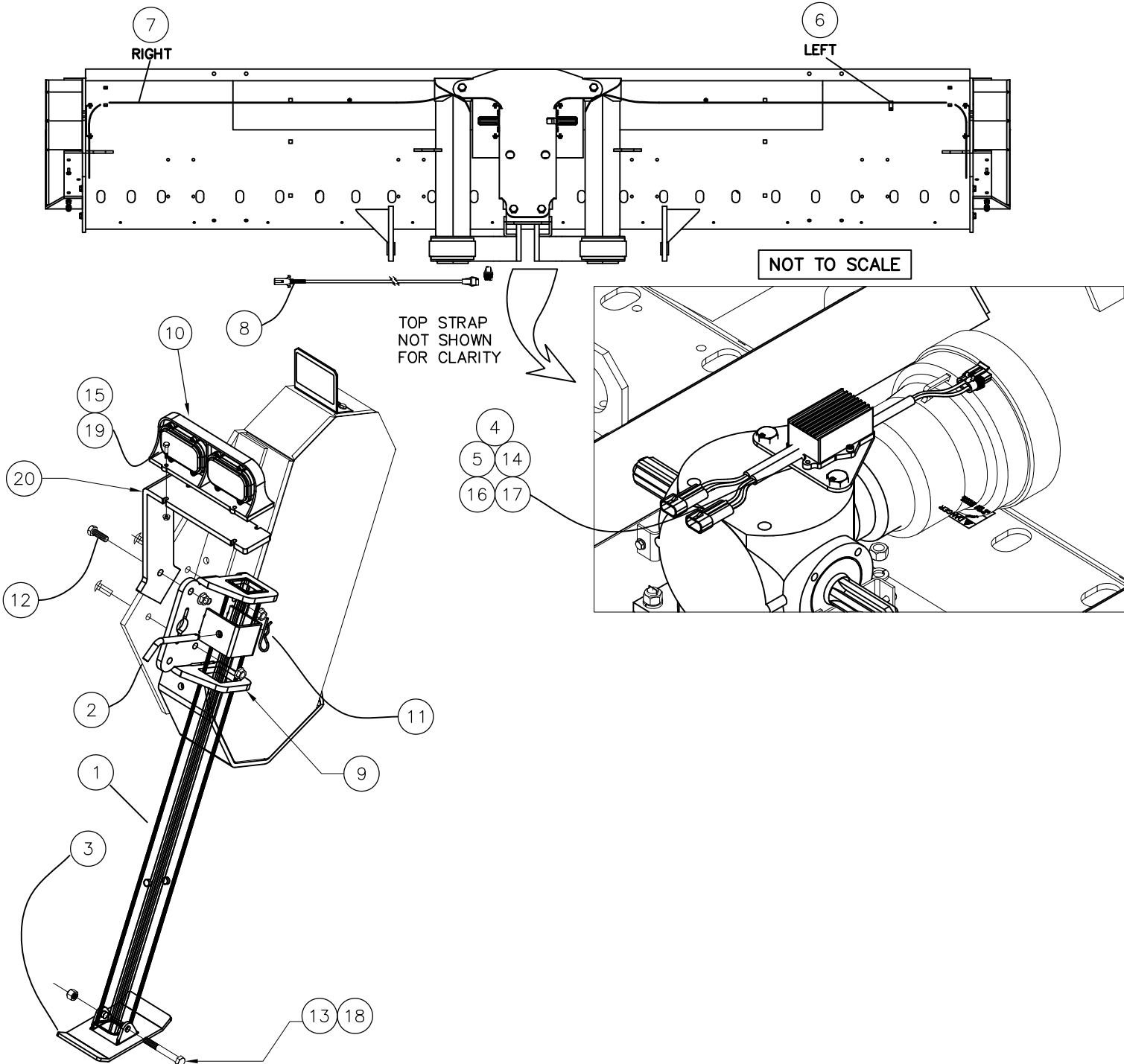
ITEM	PART NO	DESCRIPTION	QTY
1	AG26-024	METERING SHAFT - 6'	1
2	AG26-032	AUX. METERING SHAFT - 6'	1
3	AG26-047	METERING SHAFT - 8'	1
4	AG80-106	DRIVE CONNECTOR	1
5	HW08010016PLC	5/16 X 1/2 SET SCREW (72" SEEDER)	24
6	HW08010016PLC	5/16 X 1/2 SET SCREW (96" SEEDER)	32
7	HW42006032ZP	3/16 X 1 ROLL PIN	1
8	SB50-016	COURSE FEED WHEEL (72" SEEDER)	12
9	SB50-016	COURSE FEED WHEEL (96" SEEDER)	16
10	SB50-017	FINE FEED WHEEL (72" SEEDER)	12
11	SB50-017	FINE FEED WHEEL (96" SEEDER)	16
12	SB50-050	1/2" SQUARE LOCK COLLAR (72" SEEDER)	24
13	SB50-050	1/2" SQUARE LOCK COLLAR (96" SEEDER)	32



LAMP & JACKSTAND ASSEMBLY

(AG144 & AG96 ONLY)

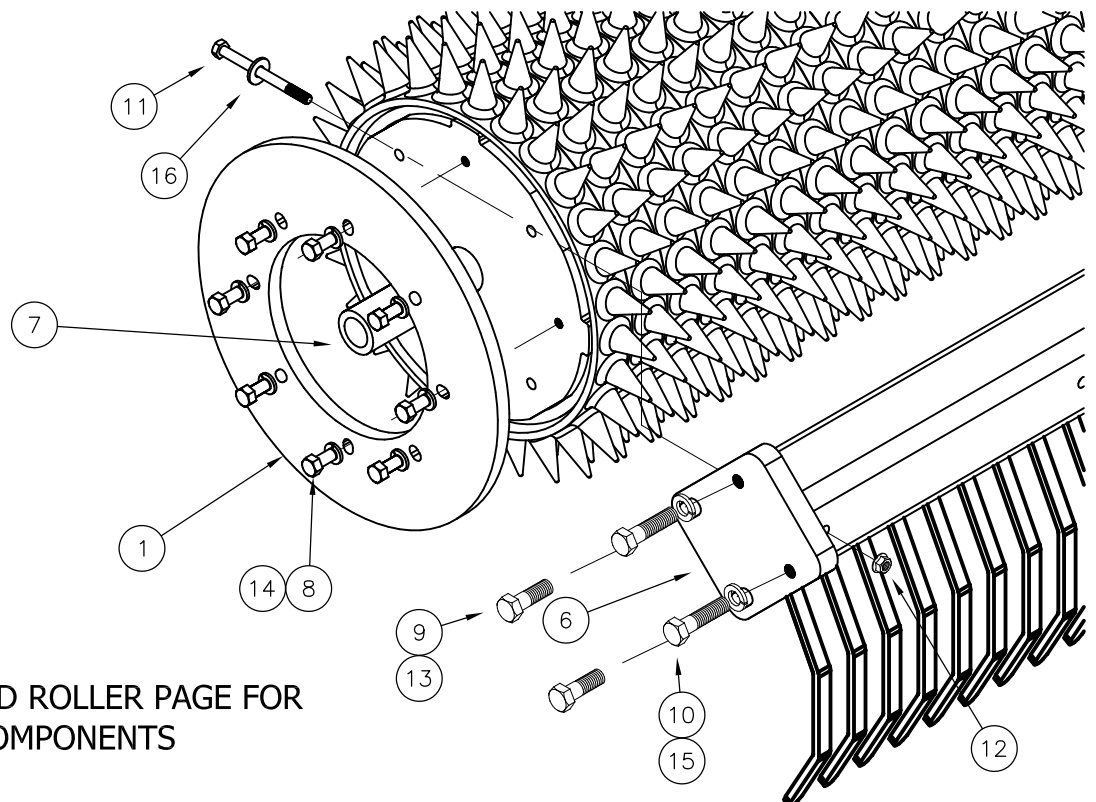
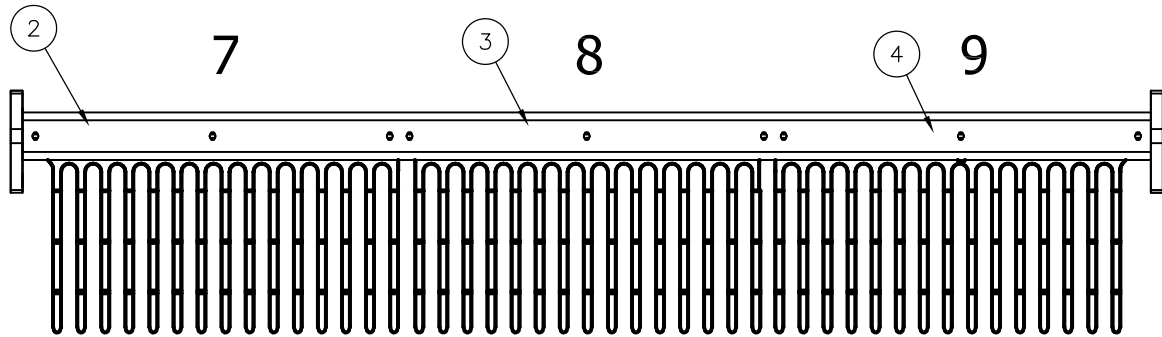
ITEM	ORDER NO.	DESCRIPTION	QTY.	ITEM	ORDER NO.	DESCRIPTION	QTY.
1	AG24-093	JACKSTAND - AG	2	11	VC50-033	#6 HAIRPIN COTTER	2
2	AG26-003	STAND PIN	2	12	HW01016048G5ZPC	1/2 X 1 1/2 HHCS	2
3	AG27-344	JACKSTAND FOOT	2	13	HW01016128G5ZPC	1/2 X 4 HHCS	2
4	AG27-359	LAMP MODULE MOUNT	1	14	HW01M140258.8ZPC	M14 X 25mm HHCS	2
5	AG50-135	LIGHT MODULE	1	15	HW01008040G5ZPC	1/4 X 1 1/4 HHCS	8
6	AG50-136	LIGHT MODULE EXT. - LT	1	16	HW09#10024G5ZPC	#10 X 3/4 SHCS	2
7	AG50-137	LIGHT MODULE EXT. - RT	1	17	HW23#10G5ZPC	#10 NYLON INSERT LOCKNUT	2
8	AG50-138	MAIN WIRE HARNESS	1	18	HW23016G5ZPC	1/2 NYLON INSERT LOCKNUT	2
9	AG80-204	L.A. JACKSTAND - AG	2	19	HW22008G5ZPC	1/4 FLANGE LOCKNUT	8
10	AG50-139/140	LED LAMP ASS'Y LEFT/RIGHT	1/e	20	AG27-347	LAMP STAND - AG	2



MULTI-SPIKE ROLLER, AG72

ITEM	PART NO	DESCRIPTION	QTY
1	AG80-185	SPIKER END CAP, 10" PIPE	2
2	AG27-295	SPIKE SCRAPPER #7	1
3	AG27-296	SPIKE SCRAPPER #8	1
4	AG27-297	SPIKE SCRAPPER #9	1
5	AG50-110	SPIKER RING - AG	47
6	AG80-181	SPIKER CROSS, AG72	1
7	AG81-083	SPIKE ROLLER, AG72	1
8	HW01012040G5ZPC	3/8 X 1-1/4 HEX HEAD CAP SCREW	16
9	HW01016056G5ZPC	1/2 X 1-3/4 HEX HEAD CAPSCREW	4
10	HW01016064G5ZPC	1/2 x 2 HHCS	4
11	HW01010120G5ZPC	5/16 X 3-3/4 HEX HEAD CAPSCREW, GR5	9
12	HW22010G5ZPC	5/16 FLG. LOCKNUT	9
13	HW22016G5ZPC	1/2 FLG. LOCKNUT	4
14	HW32012G5ZP	3/8 LOCK WASHER, GR5	16
15	HW32016G5ZP	1/2 LOCK WASHER	4
16	HW30010TAZP	5/16 FLAT WASHER	9

NOTE:SCRAPPERS ARE NUMBERED UNDER THE CENTER SLOT FOR EASY IDENTIFICATION

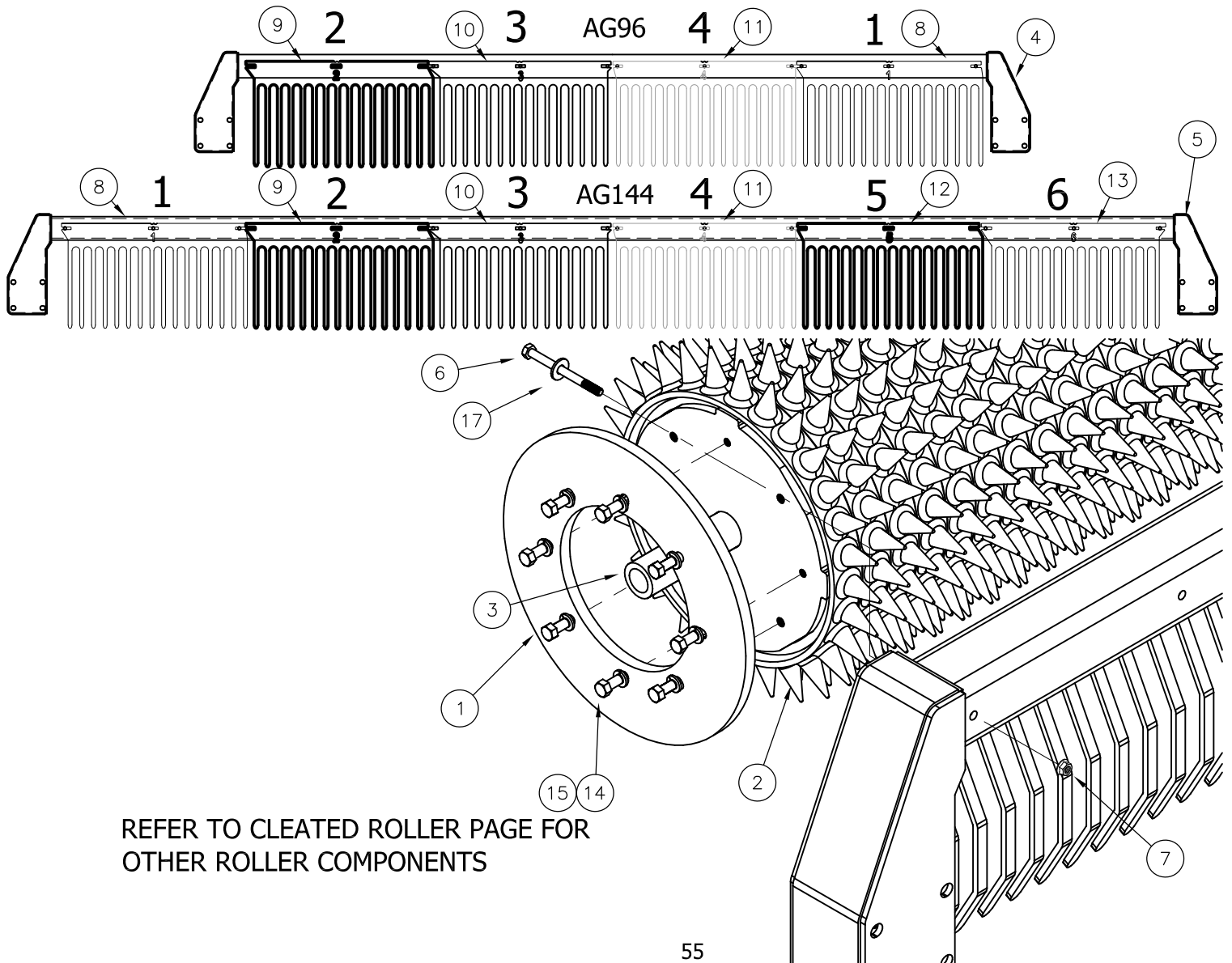


REFER TO CLEATED ROLLER PAGE FOR
OTHER ROLLER COMPONENTS

MULTI-SPIKE ROLLER, AG96 & 144

ITEM	PART NO	DESCRIPTION	QTY
1	AG80-185	SPIKER END CAP, 10" PIPE	2
2	AG50-110 - AG96	SPIKER RING - AG	63
	AG50-110 - AG144	SPIKER RING - AG	95
3	AG80-179	SPIKER DRUM, AG96	1
	AG80-180	SPIKER DRUM, AG144	1
4	AG80-182	SPIKER ROLLER CROSS, AG96	1
5	AG80-183	SPIKER ROLLER CROSS, AG144	1
6	HW01010120G5ZPC	5/16 X 3-3/4 HEX HEAD CAPSCREW, GR5 AG96	12
	HW01010120G5ZPC	5/16 X 3-3/4 HEX HEAD CAPSCREW,, GR5 AG144	18
7	HW22010G5ZPC	5/16 FLAMGE LOCK NUT AG96	12
	HW22010G5ZPC	5/16 FLAMGE LOCK NUT AG144	18
8	AG27-289	SPIKE SCRAPER #1	1
9	AG27-290	SPIKE SCRAPER #2	1
10	AG27-291	SPIKE SCRAPER #3	1
11	AG27-292	SPIKE SCRAPER #4	1
12	AG27-293	SPIKE SCRAPER #5	1
13	AG27-294	SPIKE SCRAPER #6	1
14	HW01012040G5ZPC	3/8 X 1-1/4 HEX HEAD CAP SCREW	16
15	HW32012G5ZP	3/8 LOCK WASHER, GR5	16
17	HW30010TAZP	5/16 FLAT WASHER, AG96	12
	HW30010TAZP	5/16 FLAT WASHER, AG144	18

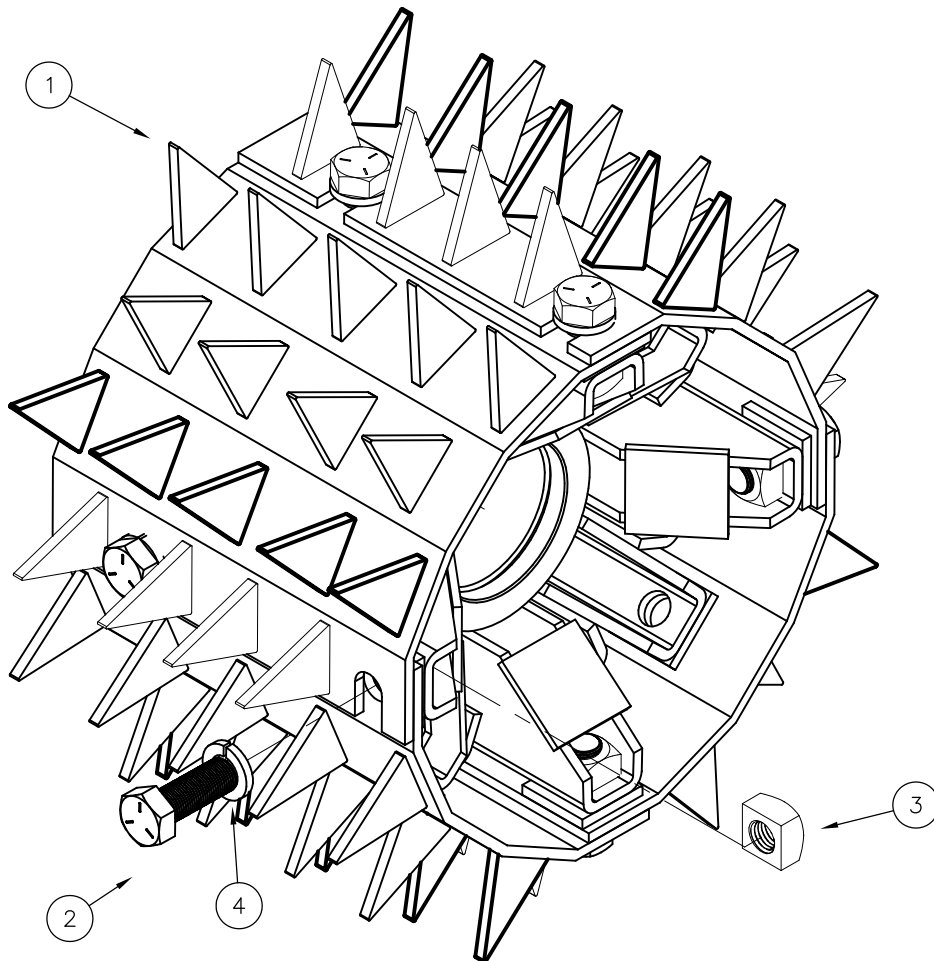
NOTE: SCRAPERS ARE NUMBERED UNDER THE CENTER SLOT FOR EASY IDENTIFICATION



REFER TO CLEATED ROLLER PAGE FOR
OTHER ROLLER COMPONENTS

MULTI-TINE SHELL

ITEM	PART NO	DESCRIPTION	QTY
1	AG80-169	AG MULTI TINE SELL	4
2	HW01024064G5ZPF	3/4 x 2 HEX HEAD BOLT, FINE THRD	8
3	HW21024G5PLF	3/4 NF SQUARE NUT, GR5 PLAIN	8
4	HW32024G8ZP	3/8 GR 8 ALLOY LOCK WASHER	8



AGRI-vator Specifications

	AG144	AG96	AG72
WEIGHT	2825 Lbs. w/Drive Shaft	2045 Lbs. w/Drive Shaft	1630 Lbs. w/Drive Shaft
OVERALL WIDTH	157"	108"	108"
WORKING WIDTH	144"	96"	72"
GEARBOX	1:1.5 - 82 HP	1:1.5 - 82 HP	1:1.5 - 82 HP
END DRIVE(S)	3 Cx Belts	2 Cx Belts	3 Cx Belts
TINE VIBRATION FREQUENCY	@540 PTO Rpm = 1026 Cycles/Min.	@540 PTO Rpm = 1026 Cycles/Min.	@540 PTO Rpm = 1026 Cycles/Min.
OUTSIDE TO OUTSIDE TINE TRAVEL	2 1/4 Inches	2 1/4 Inches	2 1/4 Inches
VIBRATING DEPTH	6 Inches	6 Inches	6 Inches
3 POINT HITCH	Cat. 2	Cat. 2	Cat. 1 or 2
TINES	3/4 X 6" Forged And Hardened	3/4 X 6" Forged And Hardened	3/4 X 6" Forged And Hardened
ROTOR BEARINGS	Double Sealed Tapered Roller	Double Sealed Tapered Roller	Double Sealed Tapered Roller
DRIVE LINE	1 3/8 Spline w/Safety Shield	1 3/8 Spline w/Safety Shield	1 3/8 Spline w/Safety Shield
FINISH - BASIC UNIT	Black And Grey Acrylic	Black And Grey Acrylic	Black And Grey Acrylic
TRACTOR REQUIRED: HP AND PTO SPEED 3 PT. LIFT HITCH LIFTING CAPACITY REQUIRED	70-80 HP – 540 RPM CAT 2 2600 Lbs. (16" Behind Lift Pins)	50-60 HP – 540 RPM CAT 2 1900 Lbs. (16" Behind Lift Pins)	40-45 HP – 540 RPM CAT 1or 2 LIFT PINS 1500 Lbs. (16" Behind Lift Pins)

SPECIFICATIONS DO NOT INCLUDE ROLLER OR SEEDER AND ARE SUBJECT TO CHANGE WITHOUT NOTICE