



**2960-013
SPACE SAVER UNIT COULTER**

**2967-025
RESIDUE MANAGER
OPERATORS & SET UP MANUAL**

YETTER MANUFACTURING CO.
FOUNDED 1930

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YETTER


FOREWORD

You've just joined an exclusive but rapidly growing club.

For our part, we want to welcome you to the group and thank you for buying a Yetter product.

We hope your new Yetter products will help you achieve both goals-increase your productivity and increase your efficiency so that you may generate more profit.

This operator's manual has been designed into four major sections: Foreword, Safety Precautions, Installation Instructions and Parts Breakdown.

 This **SAFETY ALERT SYMBOL** indicates important safety messages in the manual. When you see this symbol, be alert to the possibility of **PERSONAL INJURY** and carefully read the message that follows.

The word **NOTE** is used to convey information that is out of context with the manual text. It contains special information such as specifications, techniques and reference information of a supplementary nature.

The word **IMPORTANT** is used in the text when immediate damage will occur to the machine due to improper technique or operation. Important will

apply to the same information as specified by note only of an immediate and urgent nature.

It is the responsibility of the user to read the operator's manual and comply with the safe and correct operating procedure and to lubricate and maintain the product according to the maintenance schedule in the operator's manual.

The user is responsible for inspecting his machine and for having parts repaired or replaced when continued use of the product would cause damage or excessive wear to the other parts.

It is the user's responsibility to deliver his machine to the Yetter dealer who sold him the product for service or replacement of defective parts, which are covered by the warranty policy.

If you are unable to understand or follow the instructions provided in this publication, consult your local Yetter dealer or contact:

YETTER MANUFACTURING CO.

309/776-4111

800/447-5777

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Website: www.yetterco.com

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WARRANTY

Yetter Manufacturing warrants all products manufactured and sold by it against defects in material. This warranty being expressly limited to replacement at the factory of such parts or products as shall appear to be defective after inspection. This warranty does not obligate the Company to bear cost of labor in replacement of parts. It is the policy of the Company to make improvements without incurring obligations to add them to any unit already sold. No warranty is made or authorized to be made, other than herein set forth. This warranty is in effect for one year after purchase.

Dealer _____

Yetter Manufacturing warrants its own products only and cannot be responsible for damages to equipment on which mounted.

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SAFETY

A brief description of signal words that may be used in this manual:

CAUTION: Used as a general reminder of good safety practices or to direct attention to unsafe practices.

WARNING: Denotes a specific potential hazard.

DANGER: Denotes the most serious specific potential hazard.

SAFETY PRECAUTIONS

You can make your farm a safer place to live and work if you observe the safety precautions given. Study these precautions carefully and insist that they be followed by those working with you and for you.



WARNING

Never clean, lubricate or adjust a machine that is in motion. Always lower or block the implement before performing service.

If machine must be serviced in the raised position, jack or block it up to prevent it from accidentally falling and injuring someone.

Do not allow riders on the tractor or implement.

Use speeds and caution dictated by the terrain being traversed. Do not operate on any slope steep enough to cause tipping or loss of control.

Be sure all personnel are clear of the immediate area before operating.

Read and understand the operator's manual and require all other persons who will operate the equipment to do the same.

Be familiar with all tractor and implement controls and be prepared to stop engine and implements quickly in an emergency.



CAUTION

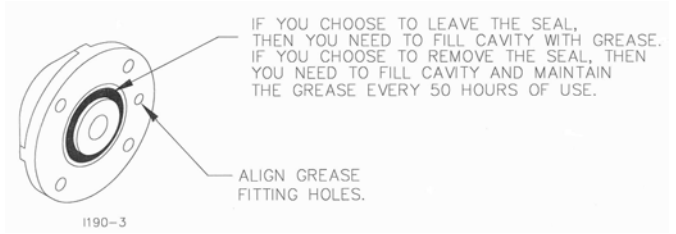
Consult your implement and tractor operator's manual for correct and safe operating practices.

Beware of towed implement width and allow safe clearance.

FAILURE TO HEED MAY RESULT IN PERSONEL INJURY OR DEATH.

ASSEMBLY INSTRUCTIONS

1. Mount the coultter bracket to planter plate, using three 1/2" x 1-1/2" bolts, washers and lock nuts.
2. Mount the adjustment plate to coultter bracket using two 1/2" x 1-1/2" carriage bolts and lock nuts.
NOTE: Using the holes of the adjustment plate as illustrated in Figure A, the coultter blade will be 7/16" above the bottom of the 15" planter blade.



3. Blade Assembly
Insert the 'D' bolt through the 1/4" thick flatwasher and then the hub and bearing assembly. When assembling blade between hubcap and bearing hub, be sure the slot in the blade is in alignment with small hole in bearing hub and groove on inside of hubcap. Use four 5/16" x 1-1/2" carriage bolts and lock nuts to bolt blade to hub.
4. Install blade assembly onto adjustment plate as illustrated in Figure A using the 3" 'D' bolt and lock nut. Torque 150 ft.lbs.
5. Align coultter blade with opener blades, tighten bolts securing bracket to planter.

NOTE: 3/8" adjustments can be made up or down as needed for blade wear or soil conditions.

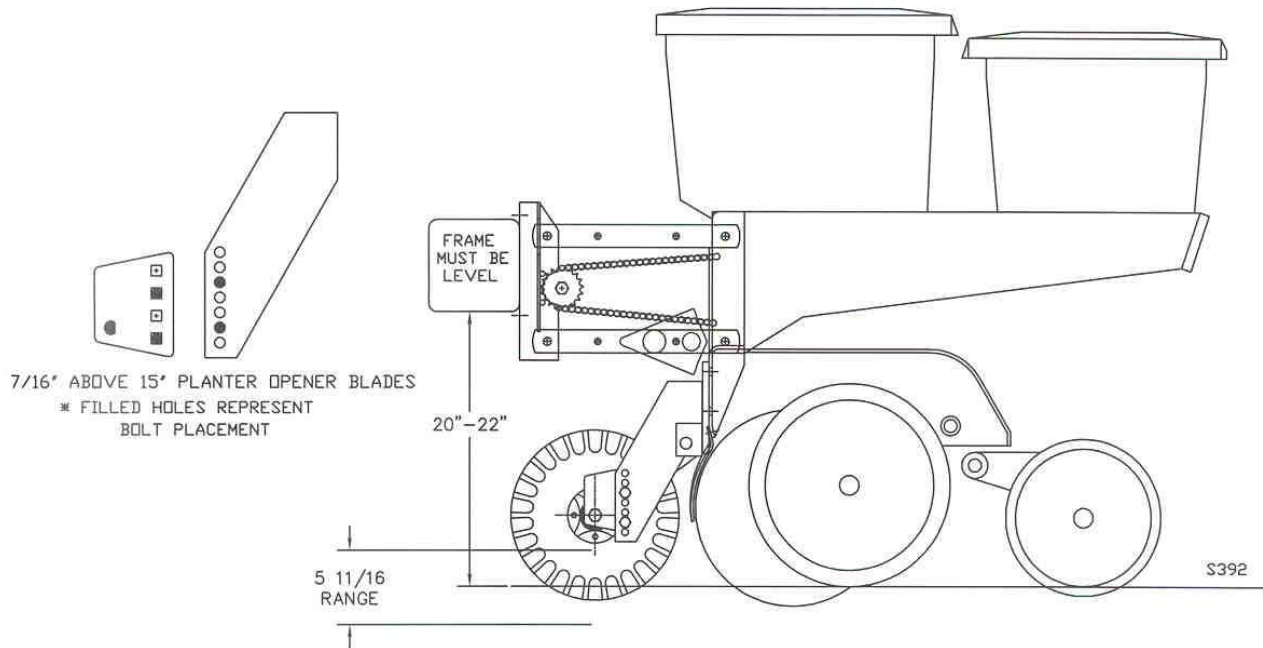


Figure A

BRACKET ASSEMBLY

1. Attach the Combo Arm W.A. (#24) to the SpaceSaver bracket using two 5/8" x 1-3/4" bolts flatwashers, 9/16" bushings and lock nut.
2. Attach the spoke wheel assembly to the bracket, using 5/8" x 2-3/4" 'D' Bolt, washer, and lock nut. Torque 150 ft.lbs.
3. Install adjustment pin at desired setting and secure with 1/8" hairpin cotter.

OPERATION

1. Set/mount coulter blades to run perpendicular to the soil. Operation depth and blade wear can be affected if the coulter is mounted crooked or if the toolbar is not level side to side.
2. After a few hours of use, check all bolts for tightness and proper torque.
3. Adjust the residue manager to move crop residue aside and not move any soil. Adjustments to the residue manager may have to be made when changing field conditions and type and amount of residue.

ROW CLEANER DO'S AND DON'TS

1. **DO NOT** move soil; Residue Managers are designed to move crop residue only.
2. **DO NOT** operate planter at slow speeds, ground speed affects how aggressive the spoke wheels are; operate at sufficient speed (4-6 mph) to maintain good residue flow.
3. **DO NOT** expect 100% of crop residue to be cleared, it is not necessary and would necessitate engaging the soil. The width of path cleared depends on ground conditions, depth setting and ground speed.
4. **DO** expect to see wheels occasionally quit turning, indicates ideal (shallow) setting which is not moving soil.
5. **DO** adjust toolbar frame height 20"-22" and drawbar correctly. Very important to ensure planter units will follow ground contours properly.
6. **Do** adjust planter unit down pressure kit correctly to prevent excessive depth in soft, loose soils.

MAINTENANCE

LUBRICATION: USE #2 MULTI-PURPOSE LITHIUM GREASE

To ensure longevity and reliability of 2960-013 coulter, the recommended lubrication schedule should be followed using multi-purpose grease at hourly intervals as indicated.

MAINTENANCE

BEARING ASSEMBLY AND LUBRICATION

Practice Safety

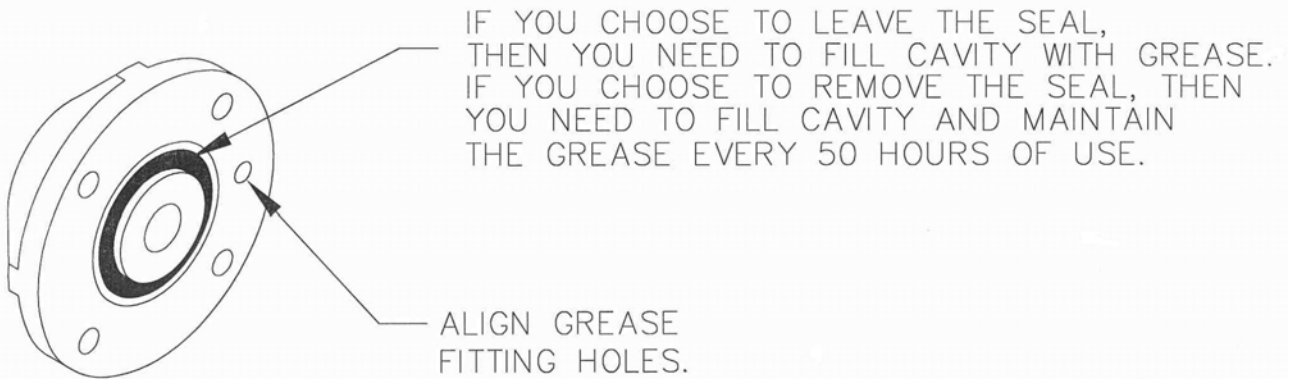
Understand and practice safe service procedures before doing work. Follow ALL the operating, maintenance and safety information in the equipment operator manual. Clear the area of bystanders, especially small children, when performing any maintenance or adjustments. Keep work area clean and dry. Use adequate lighting for the job. Use only tools, jacks and hoists of sufficient capacity for the job.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven moving and rotating parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground and stop the engine. Remove the key. Wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.

Securely support any machine elements with blocks or safety stands that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damaged equipment immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris. Make sure all guards are in place and properly secured when maintenance work is completed.

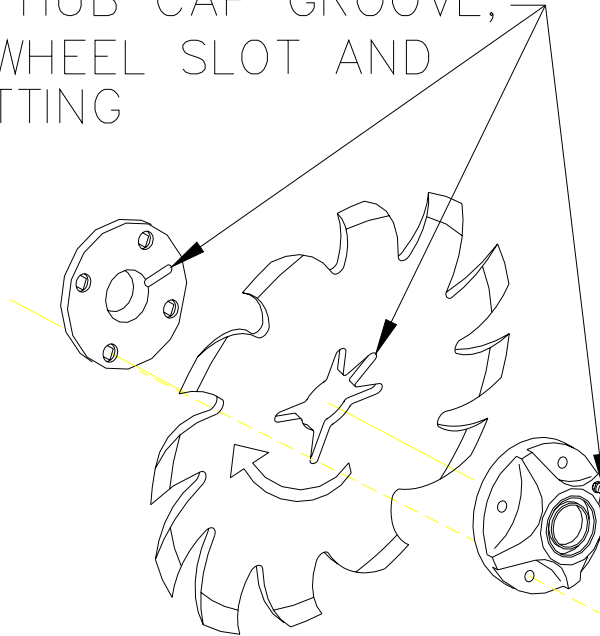
Assembly



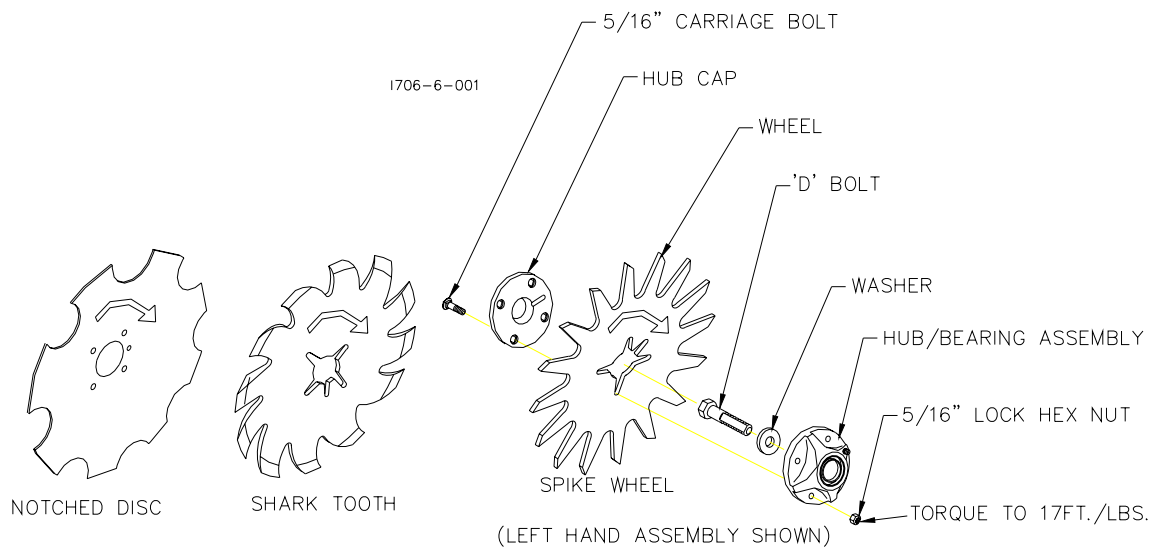
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MAINTENANCE

ALIGN THE HUB CAP GROOVE,
WITH THE WHEEL SLOT AND
GREASE FITTING

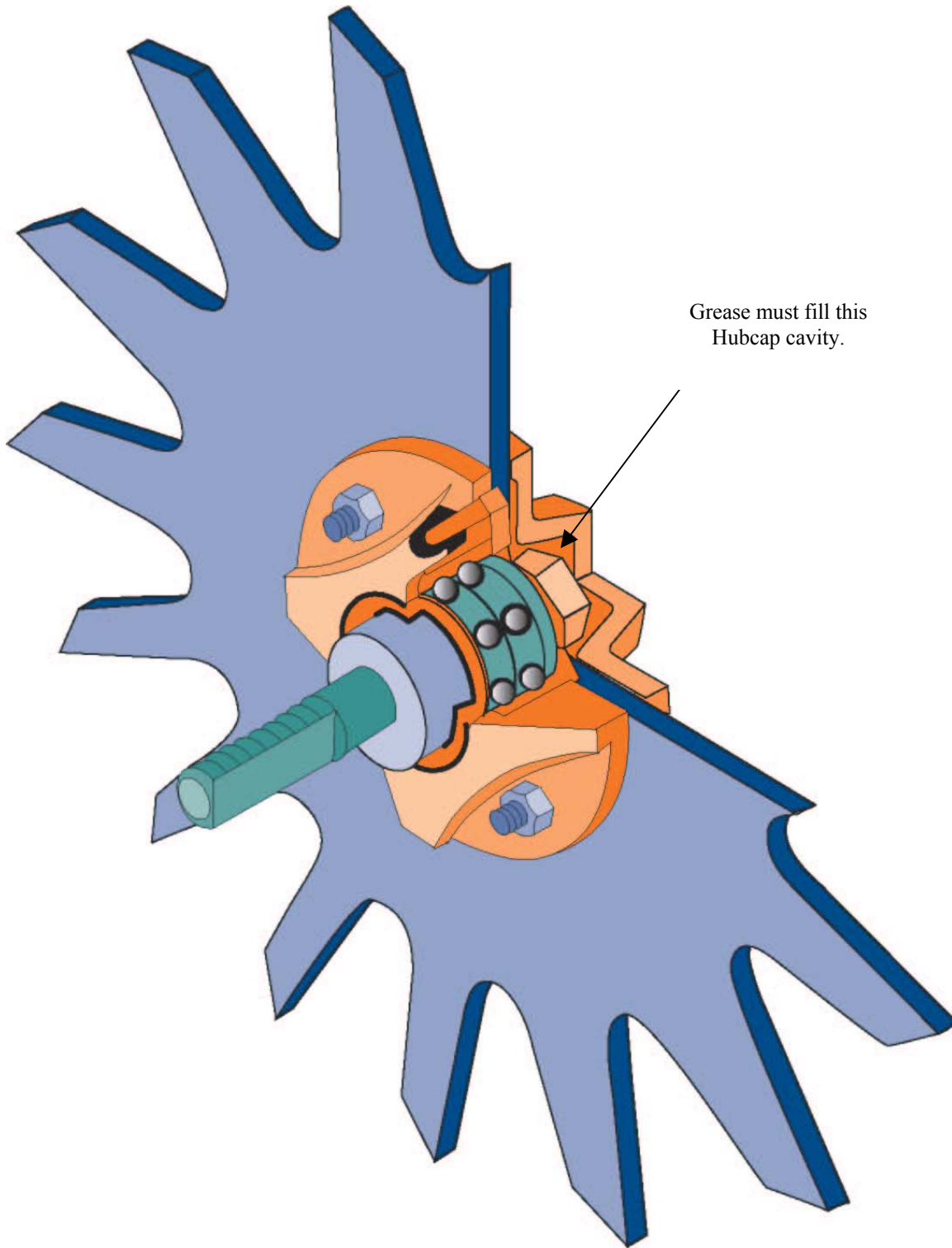


NOTE: Be certain to align the grease fitting with the slot in the wheel and the hubcap so that the grease can flow freely.



IMPORTANT: THE 2527-530 WASHER MUST BE INSTALLED OR THE WHEEL AND HUB ASSEMBLY WILL FALL OFF DURING USE.

MAINTENANCE



MAINTENANCE

Lubrication



CAUTION: To help prevent serious injury or death to you or others caused by unexpected movement, service machine on a level surface. Lower machine to ground or sufficiently lock or block raised machine before servicing. If machine is connected to tractor, engage parking brake and place transmission in "PARK", shut off engine and remove key. If machine is detached from tractor, block wheels and use shop stands to prevent movement.



CAUTION: Do not clean, lubricate, or adjust machine while in motion.

Use grease based on NLGI consistency numbers and the expected air temperature range during the service interval.

Use a **multi-purpose lithium, water resistant, moderate speed, and NLGI grade #2** grease.

Other greases may be used if they meet the following **NLGI Performance**

Classification: GC-LB

IMPORTANT: Some types of grease thickener are not compatible with others.

Consult your grease supplier before mixing different types of grease.

Alternative Lubricants

Conditions in certain geographical areas may require special lubricants and lubrication practices which do not appear in the operator's manual. If there are any questions, consult Yetter Manufacturing Co. to obtain latest information and recommendation.

PART #	DESCRIPTION	OUNCES OF GREASE
2967-404	13" TAPER TOOTH R.M. WHEEL	1.12 OZ
2967-602	13" SHARK TOOTH R.M. WHEEL	1.12 OZ
2967-186	FLOATER WHEEL KIT W/R.M. WHEEL	2.08 OZ
2967-596	HEAVY DUTY OR BEVEL R.M. WHEEL W/ FLOATER WHEEL KIT	2.40 OZ

Storing Lubricants


Your machine can operate at top efficiency only if clean lubricants are used.

Use clean containers to handle all lubricants.

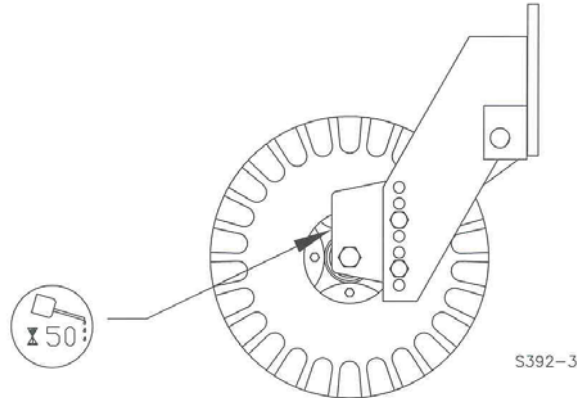
Store them in an area protected from dust, moisture and other contaminants.

MAINTENANCE

Lubrication Symbols

 Lubricate with grease at hourly interval indicated on symbol.

Lubrication Intervals



IMPORTANT: The recommended service intervals are based on normal conditions; severe or unusual conditions may require more frequent lubrication.

Perform each lubrication and service procedure at the beginning and end of each season. Clean grease fittings before using grease gun, to avoid injecting dirt and grit into the bearing. Replace any lost or broken fittings immediately. If a fitting fails to take grease, remove and clean thoroughly, replace fitting if necessary. Also check for failure of adjoining parts.

BEARING REPLACEMENT INSTALLATION

1. If you wish to be able to grease the bearings in the hubs, remove the seal from one side of the bearings as illustrated before assembly. Otherwise the bearings may be left "sealed for life".
2. When assembling the spoke wheels, bearing assembly and hubcap, be sure to align the grease transfer hole in the spoke wheel with the groove in the hubcap and hole in the hub to allow grease passage.
3. Install/assemble the wheels, hubs and caps. **IMPORTANT: THE 2527-530 WASHER MUST BE INSTALLED OR THE WHEEL AND HUB ASSEMBLY WILL FALL OFF DURING USE.**
4. Grease the wheel/hub/bearing assembly.

MAINTENANCE

Storing the Equipment

Store the machine in an area away from human activity

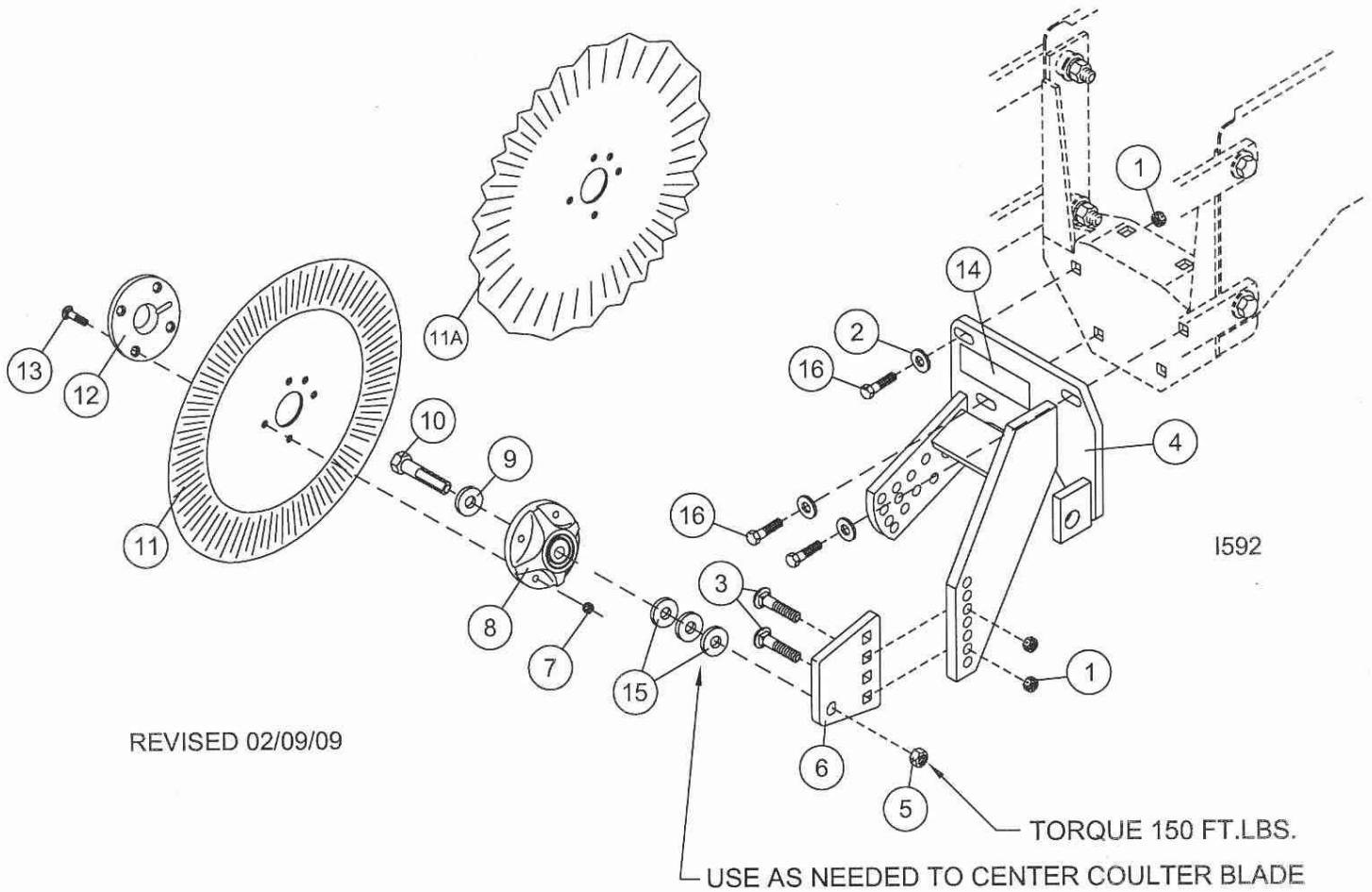
Store machine in RAISED position.

Install service locks on all wheel cylinders.

At the end of the season, the machine should be thoroughly inspected and prepared for storage. Repair or replace any worn or damaged components to prevent down time at the start of the next season. Store machine under cover with all parts in operating condition.

- Clean machine thoroughly to remove all dirt, debris and crop residue, which would hold moisture and cause rusting.
- Inspect machine for worn or broken parts. See your Yetter Farm Equipment dealer during the off-season so that parts or service can be acquired when machine is not needed in the field.
- Lubricate bearings as outlined in the Lubrication section
- Paint all parts which are chipped or worn and require repainting.
- Store machine in a clean, dry place with the planting unit out of the sun.
- If the machine cannot be stored inside, cover with a waterproof tarpaulin and tie securely in place.
- Do not allow children to play on or around the machine

PARTS IDENTIFICATION

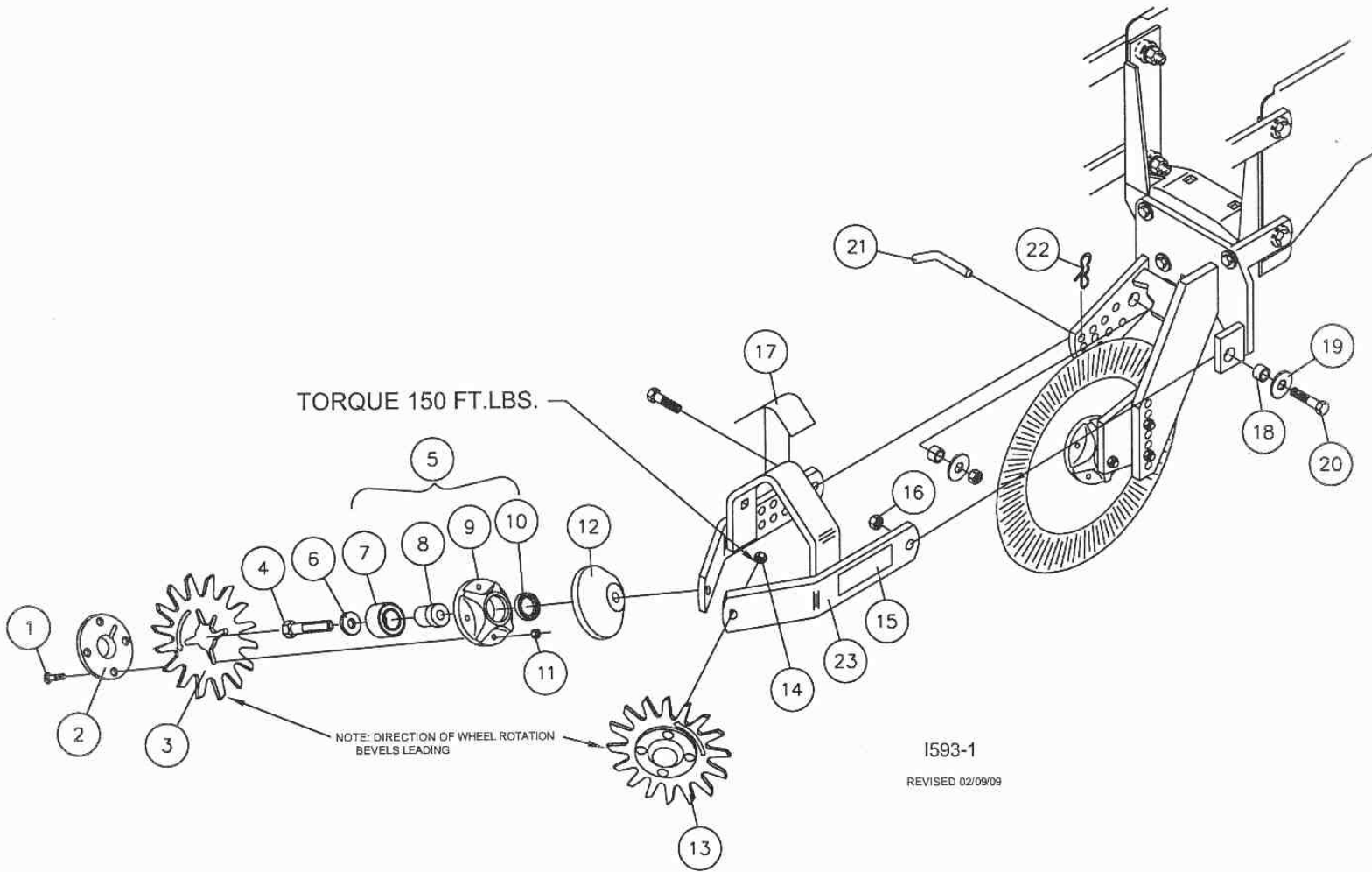


REVISED 02/09/09

2960-013-MW SPACE SAVER UNIT CLTR MULTI WV 2960-013-SW SPACE SAVER CLTR SHALLOW WV

KEY	QTY.	PART NO.	DESCRIPTION
1	5	2520-357	1/2-13 LOCK HEX NUT ZP
2	3	2526-355	1/2 FLAT WASHER, HARD'ND, P.C.
3	2	2505-339	1/2-13 X 1-1/2 SNCB GR. 5 ZP
4	1	2960-225	SPACESAVER COULTER MOUNT W.A.
5	1	2520-459	5/8-11 LOCK HEX NUT ZP
6	1	2960-376	ADJUSTMENT PLATE
7	4	2520-205	5/16-18 LOCK HEX NUT ZP
8	1	2965-128	HUB & BEARING ASSY., 4 BOLT
9	1	2527-530	1.5OD X 21/32ID 3/16TK MA BU
10	1	2570-740	5/8-11 X3" 'D' BOLT GR. 5 ZYD
11	1	2571-189	.118X13" 25FLUTE BLADE, 4 BOLT
11A	1	2571-022	.118X13" 13 WAVE BLADE, (3.25" BC)
12	1	2965-352	HUB CAP CASTING, 4 BOLT, BLACK
13	4	2505-207	5/16-18 X 1 1/4 CAR BLT GR5 ZP
14	1	2565-162	YETTER DECAL, 1-1/2 X 4-1/2
15	3	2526-453	5/8 SAE FLATWASHER ZP
16	3	2502-294	1/2-13 X 1 1/2 HHCS GR. 5 ZYD

PARTS IDENTIFICATION



Key	Qty.	Part No.	Description	Key	Qty.	Part No.	Description
1	8	2505-208	5/16-18 x 1-1/2 Car. Bolt Gr. 5 ZP	12	2	2967-263	Residue Manager Shield W.A.
2	2	2965-352	Hub Cap Casting, 4 Bolt, Black	13	1	2967-480	L.H. 10" Spoke Wheel, Formed
3	1	2967-481	R.H. 10" Spoke Wheel, Formed	14	2	2520-467	5/8-11 Hex Lock Nut, Jam ZP
4	2	2570-766	5/8-11 x 2-3/4 'D' Bolt Gr. 5 ZP	15	1	2565-162	Yetter Decal, 1-1/2 x 4-1/2
5	2	2965-128	Hub & Bearing Assy., 4 Bolt Includes 7, 8, 9 & 10	16	2	2520-459	5/8-11 Lock Hex Nut ZP
6	2	2527-530	1.5OD X 21/32ID 3/16THK Ma. Bu.	17	1	2565-340	Not A Handle Warning Decal
7	2	2570-594	Bearing, 2 Row, NTN#DF0654LU	18	2	6000-335	9/16" Bushing
8	2	2570-715	Bearing Insert, Trashmaster	19	2	2526-451	5/8 Std. Flatwasher ZP
9	2	2965-351	Hub Cast., Machined, 4 Bolt	20	2	2502-331	5/8-11 x 1-3/4 HHCS Gr. 5 ZP
10	2	2550-052	Seal, CR# 13548	21	1	2967-381	Combo Adjustment Pin, ZP
11	8	2520-205	5/16-18 Lock Hex Nut ZP	22	1	2570-448	1/8 Std. Hairpin Cotter ZP
				23	1	2967-264	SpaceSaver R.M. Combo Arm W.A.

TROUBLESHOOTING

Problem	Cause	Solution
Cannot adjust coulter depth shallow enough.	Planter frame not set correctly.	Ensure that in operation the planter frame is at correct height (20”-22”) and level.
	Planter opener blade worn.	Replace planter opener blades.
Cannot adjust coulter deep enough.	Coulter blade worn too small.	Replace coulter blade.
Coulter will not penetrate.	Lack of spring tension.	Increase spring tension.
Coulter penetrates too much.	Excessive spring down pressure.	Reduce spring tension.
Seed placement is too deep.	Coulter blade set too deep relative to openers.	Shallow up coulter depth.
Optional wavy blade disturbs too much soil.	Planter frame not level front to back.	Raise planter drawbar to level planter frame.
	Soil too damp or loose.	Reduce ground speed.
		Install a less aggressive blade. 14” Smooth Blade is available.
No spring tension.	Planter frame not set correctly.	Check planter frame settings, see above.
	Broken springs.	Replace broken or damaged parts.
Residue manager wheels are plugging with corn stalks.	High amount of residue. Residue is damp/tough.	Remove one residue manager wheel assembly to allow more residue flow.
	Bt. Hybrid corn. Excessively long stalks.	Install a cutting coulter ahead of the residue managers.
Residue manager wheels are aggressive in loose or tilled soils.	Row unit down pressure is excessive.	Adjust spring tension. Install 2967-070 quick adjust kit and allow residue managers to “float”
	Planter frame not level.	Level the planter frame.

Our name Is getting known

Just a few years ago, Yetter products were sold primarily to the Midwest only. Then we embarked on a program of expansion and moved into the East, the South, the West and now north into Canada. We're even getting orders from as far away as Australia and Africa.

So, when you buy Yetter products . . .you're buying a name that's recognized. A name that's known and respected. A name that's become a part of American agriculture and has become synonymous with quality and satisfaction in the field of conservation tillage.

Thank you.

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