



3000 SERIES
VIPER® II FERTILIZER COULTER
OPERATOR'S MANUAL
PART IDENTIFICATION
2565-690_REV_H 10/2013



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

309/776-3222 (FAX)

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.

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 those working with you and for you follow the precautions.

Finally, remember this an accident is usually caused by someone's carelessness, neglect or oversight.

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.



CAUTION

Consult your implement and tractor operator's manual for correct and safe operating practices. Be aware of towed implement width and allow safe clearance.



CAUTION: SAFETY SIGNS

Safety decals are placed on the implement to alert the operator and others to the risk of personal injury or unsafe operation during normal operations and servicing.

1. The safety decals must be kept clean and in good condition to ensure that they are legible.
2. Safety decals must be replaced if they are missing or illegible.
3. When components are replaced during repair or servicing, check that the new components include the necessary safety signs.
4. Replacement safety decals may be obtained from your local dealer.



WARNING

Read these instructions carefully to acquaint yourself with the Equipment. Working with unfamiliar equipment can lead to accidents.

Never park the equipment on a steep incline or leave the equipment running unattended.

Never clean, lubricate or adjust a machine that is in motion.

Always check that straps are secure.

Make sure latches are in pinned position when moving equipment.

Do not allow children to operate this equipment.

Do not allow riders on the equipment, trailer and/or pick-up.

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

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

If operating on public roadways, where legal, be certain all lighting is operating properly and observe all traffic laws.

Beware of increased stopping distances and control effort when operating with implements attached.

Be familiar with all controls and be prepared to stop equipment quickly in an emergency.

FAILURE TO HEED MAY RESULT IN PERSONAL INJURY OR DEATH.

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BOLT TORQUE

Mounting bolts and hardware

Before operating the Viper® opener for the first time, check to be sure that all hardware is tight. Check all hardware again after approximately 50 hours of operation and at the beginning of each planting season.

All hardware used on the Viper® opener is Grade 5 unless otherwise noted. Grade 5 cap screws are marked with three radial lines on the head. If hardware must be replaced, be sure to replace it with hardware of equal size, strength and thread type. Refer to the torque values chart when tightening hardware.

Important: Over tightening hardware can cause as much damage as when under tightening. Tightening hardware beyond the recommended range can reduce its shock load capacity.



The chart below is a guide for proper torque. Use it unless a specified torque is called out elsewhere in the manual.

Torque is the force you apply to the wrench handle or the cheater bar, times the length of the handle or bar.

Use a torque wrench whenever possible.

The following table shows torque in ft. lbs. for coarse thread hardware.

| BOLT DIA. AND THREADS PER INCH |  |  OR  |  |
|---|---|---|---|
| | GRADE 2 | GRADE 5 A-325 | GRADE 8 |
| 1/4 | 6 | 10 | 14 |
| 5/16 | 12 | 20 | 30 |
| 3/8 - 16 | 25 | 35 | 50 |
| 7/16 - 14 | 35 | 55 | 80 |
| 1/2 - 13 | 55 | 85 | 125 |
| 9/16 - 12 | 75 | 125 | 175 |
| 5/8 - 11 | 105 | 170 | 235 |
| 3/4 - 10 | 185 | 305 | 425 |
| 7/8 - 9 | 170 | 445 | 690 |
| 1-8 | 260 | 670 | 1030 |
| 1 1/8 - 7 | 365 | 900 | 1460 |
| 1 1/4 - 7 | 515 | 1275 | 2060 |
| 1 3/8 - 6 | 675 | 1675 | 2700 |
| 1 1/2 - 6 | 900 | 2150 | 3500 |
| 1 3/4 - 5 | 1410 | 3500 | 5600 |

Lubricate all bearings and moving parts as assembled and make certain that they work freely.

WARNING: Never work around the toolbar/implement while in a raised position without using safety lockups.

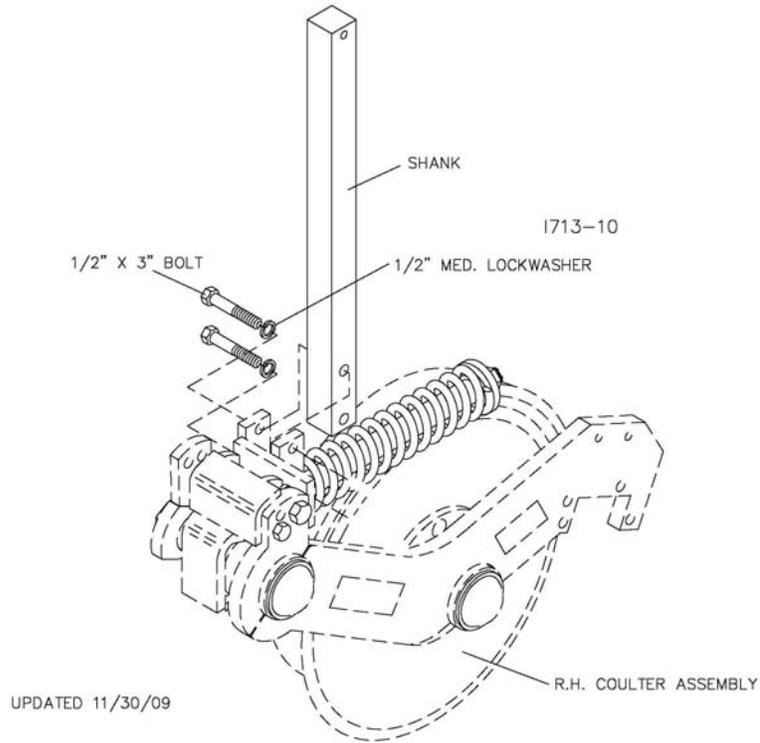


CAUTION: The Viper opener and its attachments are very heavy. Pay extra attention to lifting techniques while handling and or maneuvering the opener during assembly. Failure to do so may lead to personal injury.

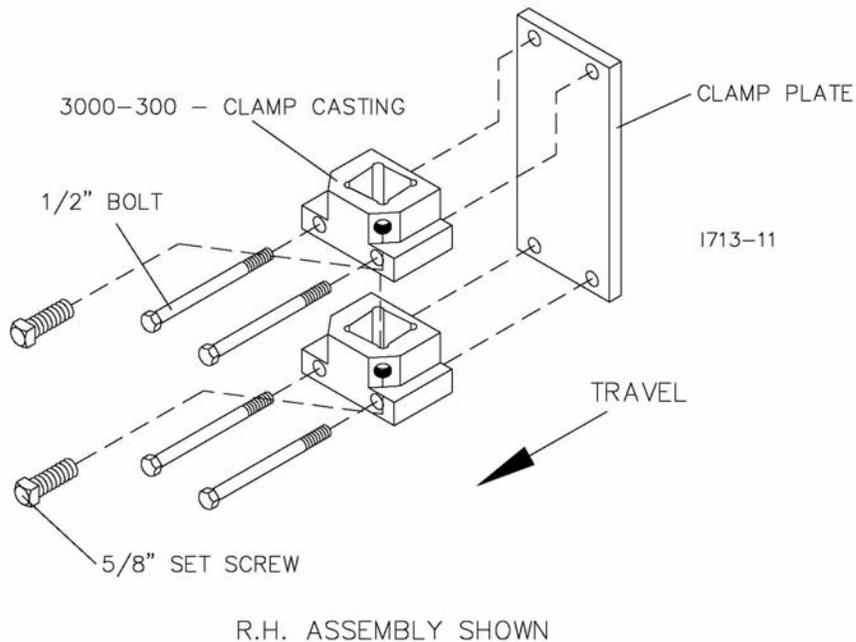


INSTALLATION INSTRUCTIONS

STEP 1. Attach the shank to the couler assembly using two 1/2" x 3" bolts and lock washer.



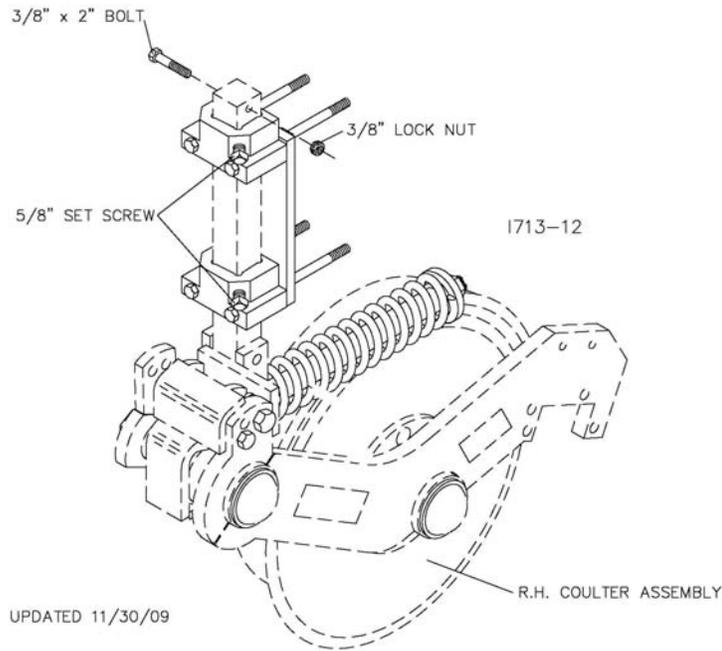
STEP 2. Assemble the 5/8" jam nuts to the 5/8" set screws, and then insert the setscrew into the 3000-300 clamp castings. Next, insert the 1/2" bolts into the 3000-300 clamp castings and assemble to a clamp plate.



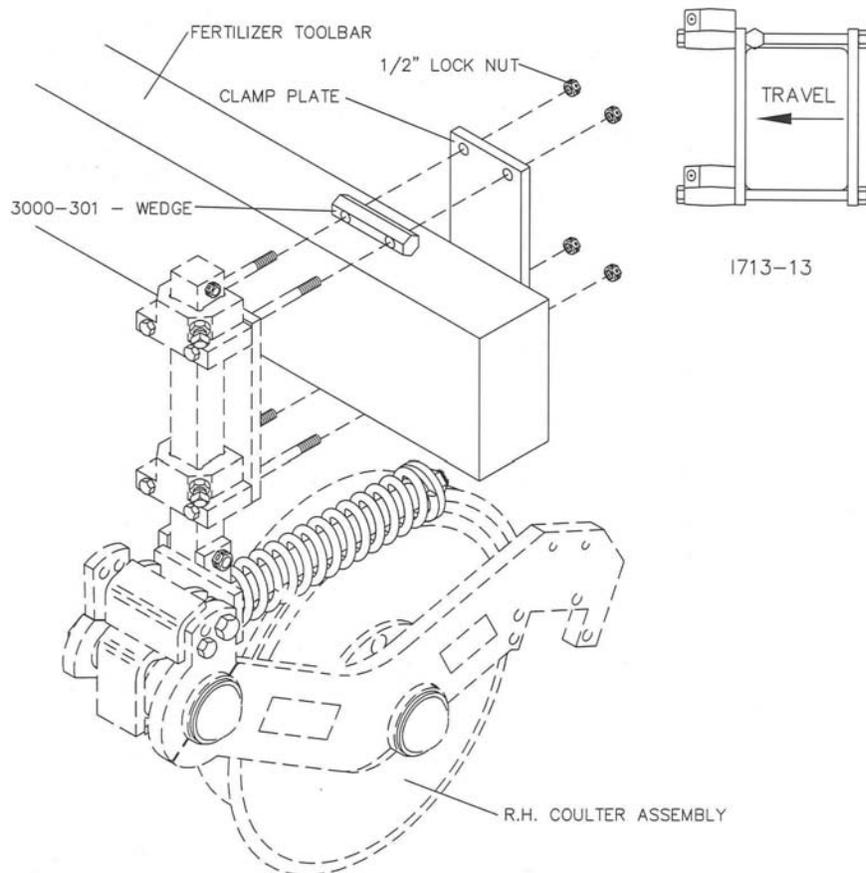
UPDATED 11/30/09

INSTALLATION INSTRUCTIONS

STEP 3. Install the clamp assembly onto the shank; slightly tighten a 5/8" set screw to temporarily hold the clamp to the shank. Insert the 3/8" x 2" bolt through the top hole of the shank; secure it with the 3/8" lock nut.

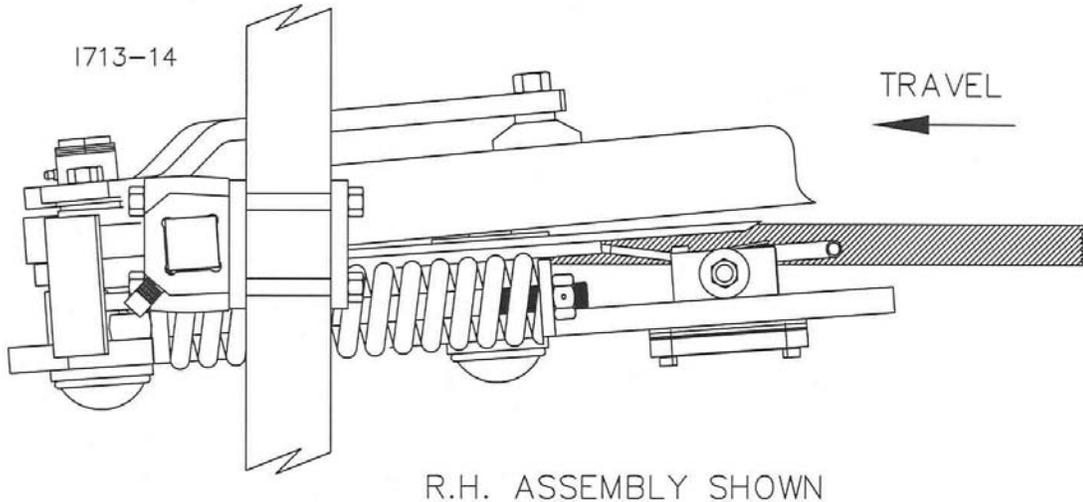


STEP 4. Attach the coulters/shank/clamp assembly to the fertilizer toolbar using the 3000-301 wedge, clamp plate and 1/2" lock nuts.



INSTALLATION INSTRUCTIONS

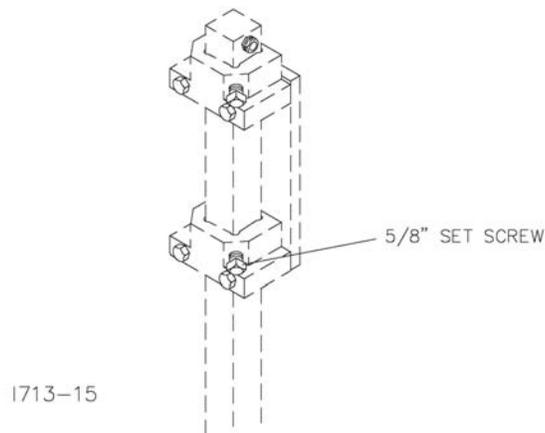
STEP 5. Move the coulters assembly to the desired distance away from the seed furrow 2"-4". Then fully tighten the 1/2" clamp bolts. Torque the bolts to 90 ft. lbs. NOTE: During the season, check the tightness of the clamp bolts daily.



IMPORTANT: Never locate the opener to place fertilizer closer than 2" to the row.

STEP 6. Setting the height of the coulters assembly, loosen the 5/8" setscrew and raise or lower the coulters/shank assembly to the desired height. Tighten the setscrews to hold the coulters/shank assembly in place. NOTE: Field adjustment of the shank position will be required to accurately place the fertilizer at the desired depth. Factors affecting fertilizer depth: toolbar height, shank adjustment, gauge wheel adjustment, spring pressure adjustment, and soil tilth. When the coulters shank is adjusted to the desired height, triple tighten (tighten, loosen, tighten, loosen, tighten) the 5/8" setscrews so that the cup point is properly seated into the coulters shank.

NOTE: Regularly check the tightness of the setscrews.



UPDATED 11/30/09

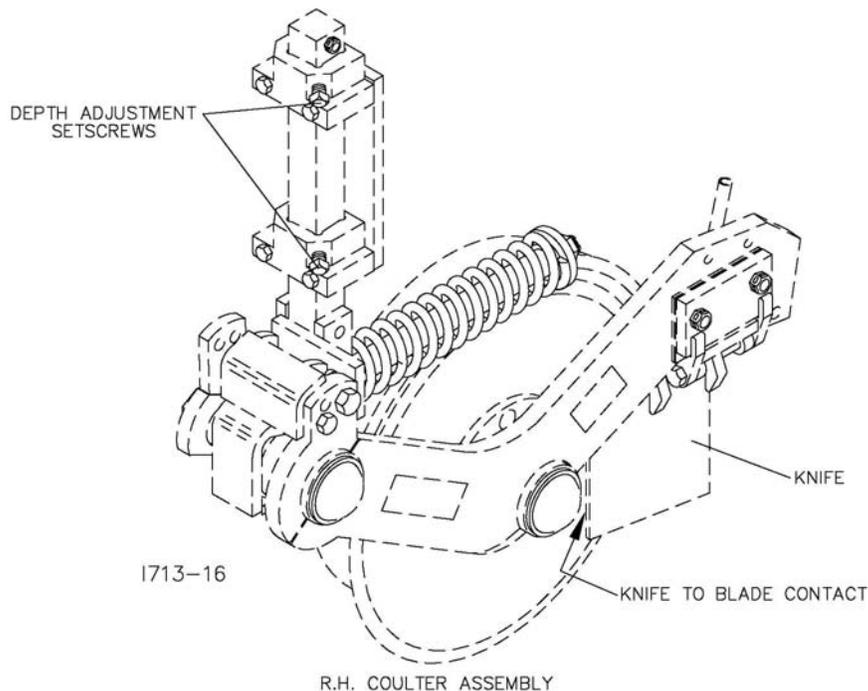
OPERATION

VIPER FERTILIZER OPENER

The Viper® II single disc fertilizer is designed for use in conventional, minimum and no-till field conditions. Placement of fertilizer with the single disc fertilizer opener is recommended at 2"-4" from the row. The opener is designed to hold the blade at a set angle so the knife and fertilizer tube operate in the shadow of the blade. ***NEVER*** locate the opener to place fertilizer closer than 2". Maximum operating depth (16" blade - 3-1/2")(18" blade - 4-1/2"). Check the fertilizer hose clearance after adjusting opener depth. Torque the setscrews and jam nuts to 100 ft. lbs.



WARNING: Operating the Viper® opener in soils containing many large rocks is not recommended. The opener's upper movement limit stop is incapable of supporting the planter frame weight as the opener rides up over large rocks.



UPDATED 11/30/09

ADJUST KNIFE TO BLADE CONTACT on each opener so the blade will turn by hand with slight resistance, but will not coast or freewheel. In loose soil the knife adjustment is critical. If adjustment is not maintained, soil or residue may wedge between knife and blade, resulting in the blade not turning. Because of blade run out, rotate the blade one full revolution after adjustment. Re-adjust knife as needed. Never strike the knife with a heavy object or damage may occur.

OPERATION

STEP 1. Check/Set the planter frame height to the manufacturer's recommendations.

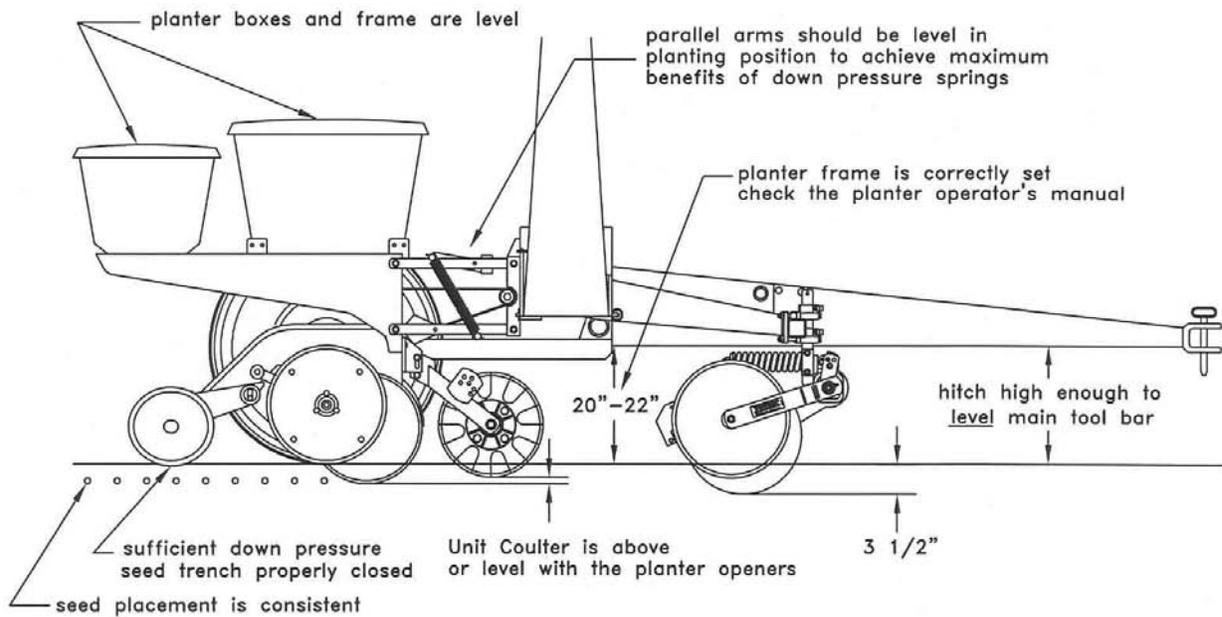


FIGURE A. (CORRECT)

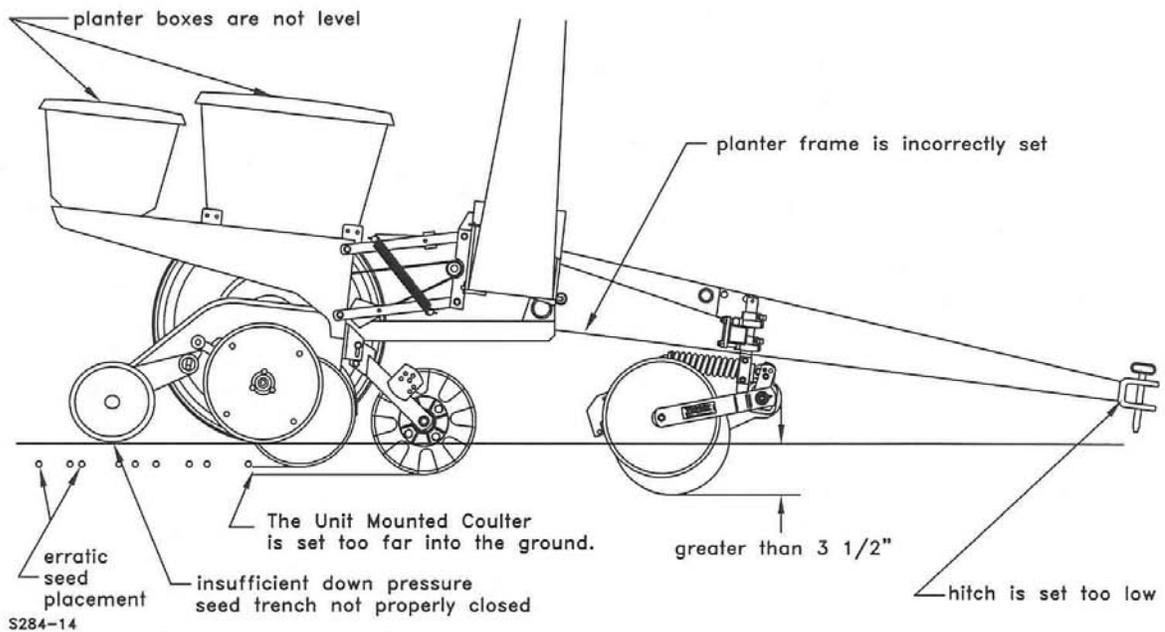
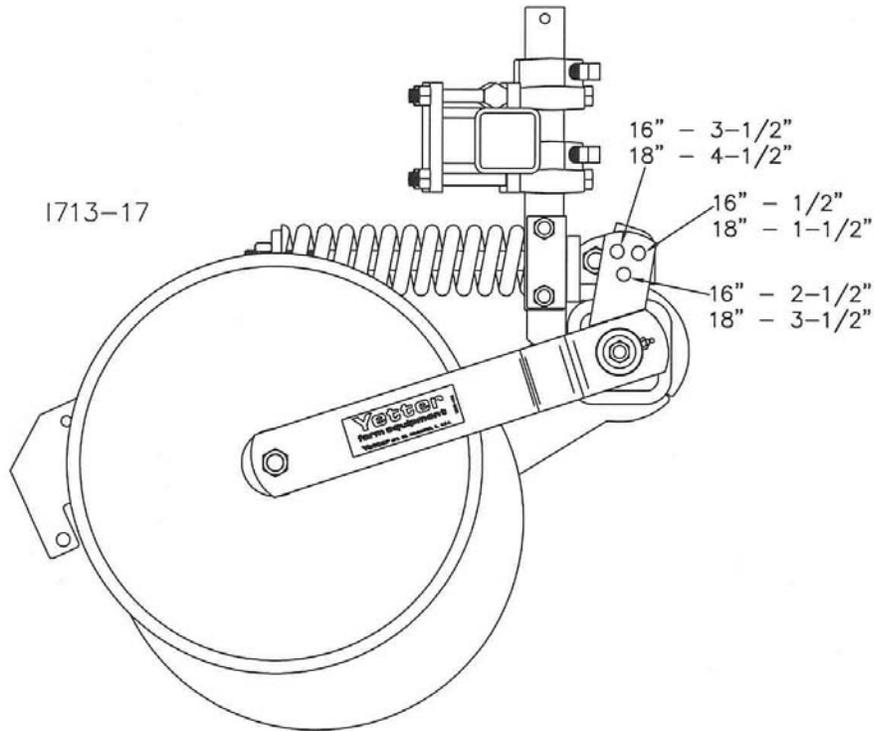


FIGURE B. (INCORRECT)

OPERATION

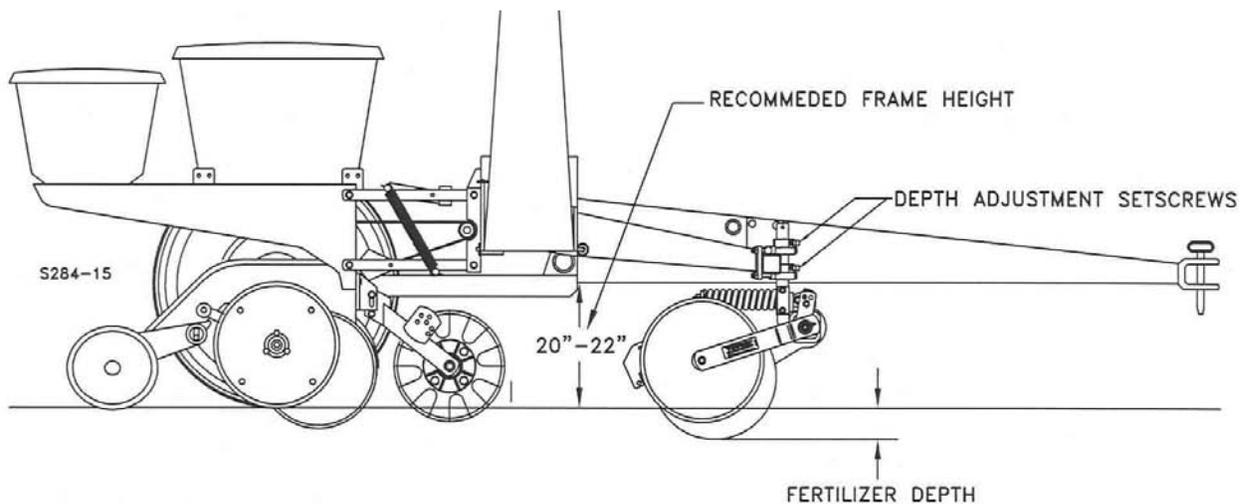
FIELD ADJUSTMENT

STEP 2. Adjust the gauge wheel to the desired depth.



SETTING THE DEPTH

STEP 3. Raise or lower the coulter assembly/shank at the toolbar clamp as needed to achieve the desired depth. After setting the depth – triple tighten the setscrews onto the shank. Torque to 100 ft. lbs.



MAINTENANCE

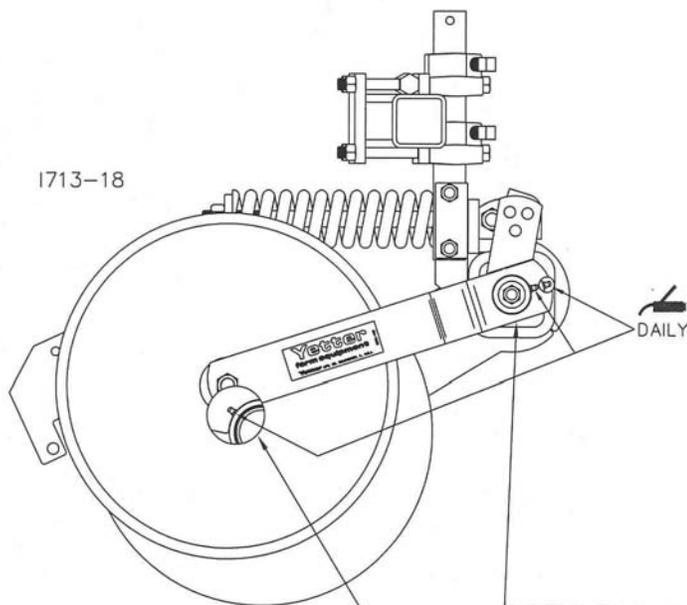
LUBRICATION

Proper lubrication of all moving parts will help ensure efficient operation of the Viper® II opener and prolong the life of friction producing parts.

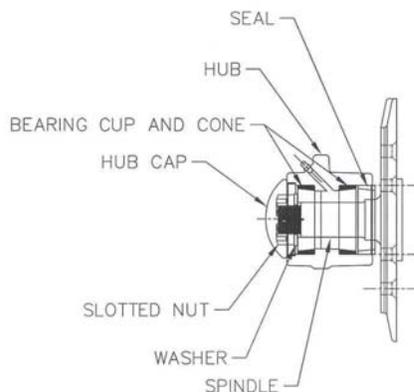


DANGER: Always install safety lock-ups or lower the planter to the ground before working on the machine.

Lubricate at frequency indicated with a multi-purpose type grease.



TAPERED BEARINGS SHOULD BE REPACKED ANNUALLY AND CHECKED FOR WEAR. TO CHECK FOR WEAR, LIFT THE PLANTER OFF OF THE GROUND. CHECK FOR ENDPLAY IN THE BEARINGS BY MOVING THE COULTER BLADE IN AND OUT. ROTATE THE BLADE TO CHECK FOR ROUGHNESS IN THE BEARINGS. IF BEARINGS SOUND ROUGH, THE HUB SHOULD BE REMOVED AND THE BEARINGS INSPECTED AND REPLACED IF NECESSARY.

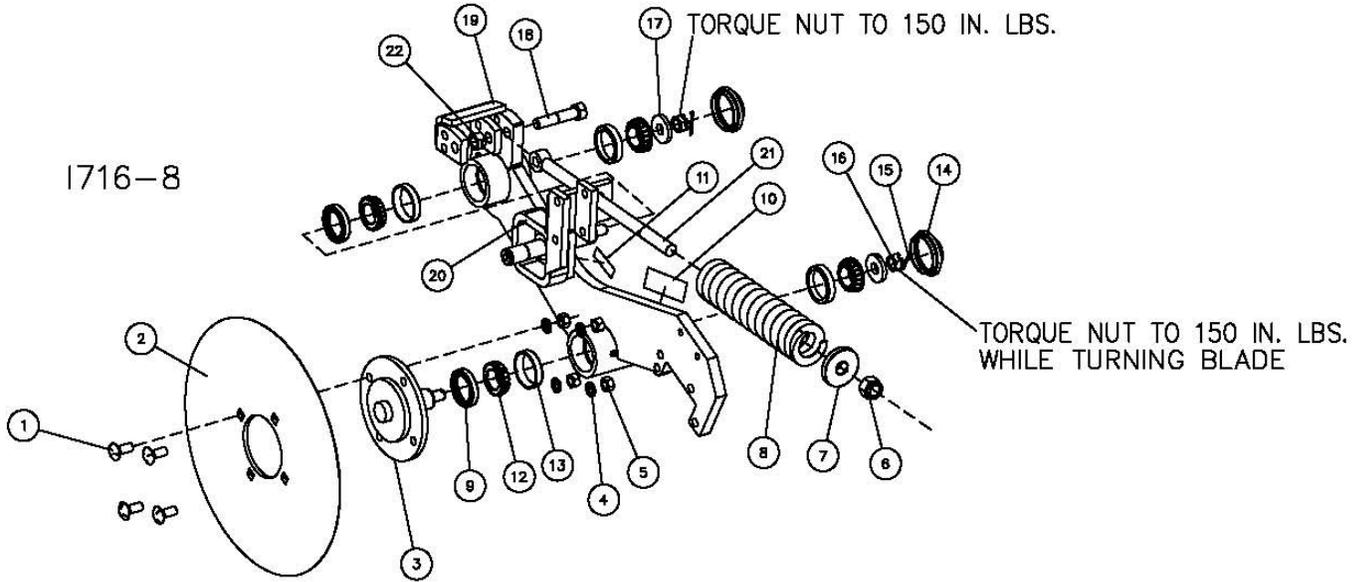


DANGER: Always install all safety lock-ups and safety lock pins before working under the toolbar.

1. Raise the toolbar until it is clear off the ground. Remove the gauge wheel and the blade. Remove the hubcap, cotter pin, slotted nut and washer from the spindle shaft assembly.
2. Pull the coulters spindle shaft assembly from the hub. Remove bearing cones and cups and discard if bearings are being replaced. Clean hub and dry. Remove bearings only and not cups of re-packing.
3. Wash the old grease from the hub, bearing cups, coulters spindle shaft, seal and bearing cones. Inspect the condition of bearing cups and cones.
4. Apply #2 multi-purpose lithium grease on each bearing. Make sure the space around each roller is filled. Lubricate the bearing cups.
5. Position the bearing in the cup and install the seal. Lubricate the seal lips and proceed with re-assembly of the removed parts including the blade. Blade bolt torque is 90 to 96 ft. lbs.
6. Install outer bearing, washer and slotted nut. Tighten the slotted nut to 150 in. lbs. while rotating the blade or until a definite drag is felt when the blade is turned by hand. Tighten the nut one slot position to line up the cotter pin hole with a slot. Secure the nut with a new cotter pin.

PARTS IDENTIFICATION

3000-035-L 16" VIPERII CLTR ASSY, LH
3000-035-R 16" VIPERII CLTR ASSY, RH
MFG 11-09 TO PRESENT

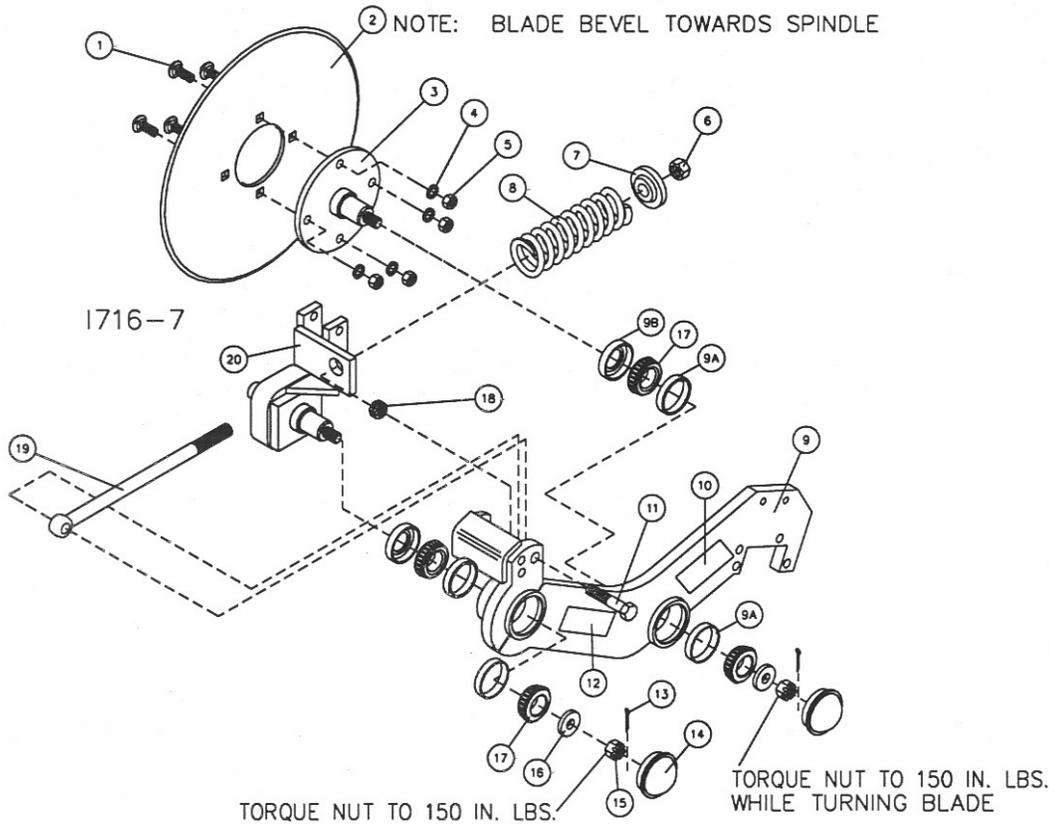


NOTE: BLADE BEVEL TOWARDS SPINDLE

| DET | QTY | PART NO. | DESCRIPTION | DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------------|-----|-----|------------|----------------------------------|
| 1 | 4 | 2505-337 | 1/2-13 X 1 1/4 CAR BOLT GR5 ZP | 13 | 4 | 2550-029 | CUP, LM67010 |
| 2 | 1 | 2571-208 | .25 X 16 SINGLE BEVEL STRAIGHT BLADE | 14 | 2 | 2570-375 | HUB CAP, WILTON #909902 |
| 3 | 1 | 3000-269 | SPINDLE PLATE W.A. (08) | 15 | 2 | 2531-102 | 1/8 X 1-1/4 COTTER PIN |
| 4 | 4 | 2525-352 | 1/2 MED LOCKWASHER ZP | 16 | 2 | 2520-469 | 5/8-18 SLOTTED HEX NUT |
| 5 | 4 | 2520-352 | 1/2-13 HEX NUT ZP | 17 | 2 | 2526-449 | 5/8 FLATWASHER 1/4+- .010 |
| 6 | 1 | 2520-516 | 3/4-10 NYLON INSERT LOCKNUT | 18 | 1 | 2502-325 | 5/8-11 X 3 HHCS GR 5 ZP |
| 7 | 1 | 2555-096 | SPRING BUSHING CASTING | 19 | 1 | 3000-268-L | MAIN ARM W.A., L.H. (08) (SHOWN) |
| 8 | 1 | 2550-795 | SPRING, .562" WIRE X 11" LONG | 1 | 1 | 3000-268-R | MAIN ARM W.A., R.H. (08) |
| 9 | 2 | 2550-066 | TRIPLE LIP SEAL, NTL #1812-4 | 20 | 1 | 3000-271-L | PIVOT MOUNT W.A. LH (08) (SHOWN) |
| 10 | 1 | 2565-450 | VIPER DECAL | 1 | 1 | 3000-271-R | PIVOT MOUNT W.A. RH (08) |
| 11 | 1 | 2565-162 | YETTER DECAL, 1-1/2 X 4-1/2 | 21 | 1 | 2995-304 | SPRING ROD, 13 1/2" |
| 12 | 4 | 2550-027 | CONE, LM67048 | 22 | 1 | 2520-459 | 5/8-11 LOCK HEX NUT ZP |

PARTS IDENTIFICATION

3000-053-L 18" VIPER II COULTER ASSEMBLY LH
 3000-053-R 18" VIPER II COULTER ASSEMBLY RH
 MANUFACTURED (11-08 TO PRESENT)

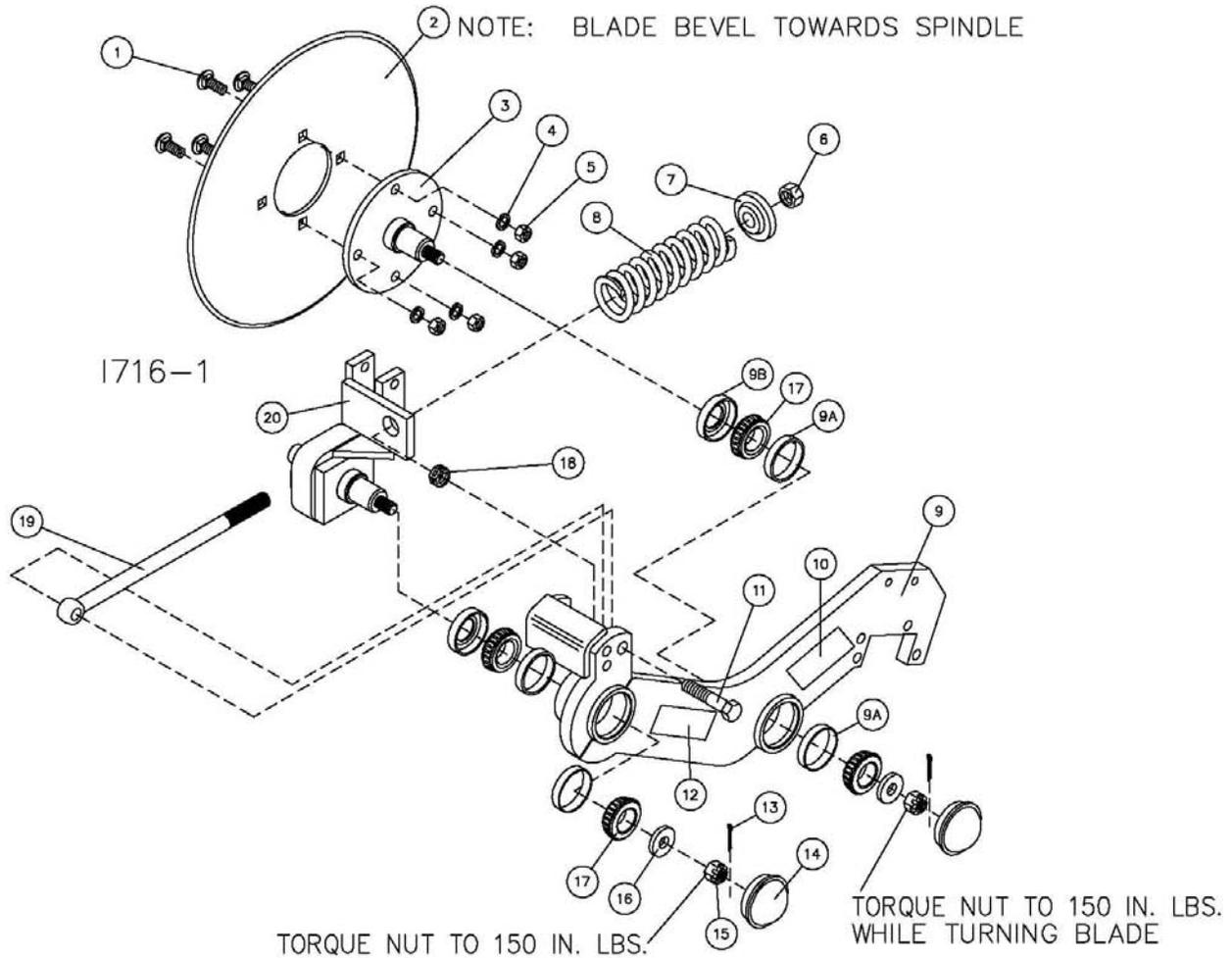


| DET | QTY | PART NO. | DESCRIPTION | DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|------------|-------------------------------------|-----|-----|------------|-------------------------------------|
| 1 | 4 | 2505-337 | 1/2-13 X 1 1/4 CAR BOLT GR5 ZP | 10 | 1 | 2565-450 | VIPER DECAL |
| 2 | 1 | 2571-207 | 18" FLAT SINGLE BEVEL BLADE | 11 | 1 | 2502-325 | 5/8-11 X 2-1/2 HHCS GR 5 ZP |
| 3 | 1 | 3000-269 | SPINDLE PLATE W.A. (08) | 12 | 1 | 2565-162 | YETTER DECAL, 1-1/2 X 4-1/2 |
| 4 | 4 | 2525-352 | 1/2 MED LOCKWASHER ZP | 13 | 2 | 2531-102 | 1/8 X 1-1/4 COTTER PIN BLACK |
| 5 | 4 | 2520-352 | 1/2-13 HEX NUT ZP | 14 | 2 | 2570-375 | HUB CAP, WLTON #909902 |
| 6 | 1 | 2520-516 | 3/4-10 LOCK HEX NUT ZP | 15 | 2 | 2520-469 | 5/8-18 SLOTTED HEX NUT, BLACK |
| 7 | 1 | 2555-096 | SPRING BUSHING CASTING | 16 | 2 | 2526-449 | 5/8 FLATWASHER, 1/4 +- .010 THK |
| 8 | 1 | 2550-795 | SPRING, .562" WIRE X 11" LONG | 17 | 4 | 2550-027 | CONE, LM67048 |
| 9 | 1 | 3000-146-R | MAIN ARM W.A., R.H. (08) (SHOWN) | 18 | 1 | 2520-459 | 5/8-11 LOCK HEX NUT ZP |
| | 1 | 3000-146-L | MAIN ARM W.A., L.H. (08) | 19 | 1 | 2995-304 | SPRING ROD, 13 1/2" |
| 9A | 4 | 2550-029 | CUP, LM67010 | 20 | 1 | 3000-271-L | PIVOT MOUNT W.A., L.H. (08) |
| 9B | 2 | 2550-050 | TRIPLE LIP SEAL, INTERNAL C/R#16064 | 1 | 1 | 3000-271-R | PIVOT MOUNT W.A., R.H. (08) (SHOWN) |

PARTS IDENTIFICATION

3000-040-L - 16" VIPER® II COULTER ASSY, LH
3000-040-R - 16" VIPER® II COULTER ASSY, RH
MANUFACTURED (11-04 TO 10-09)

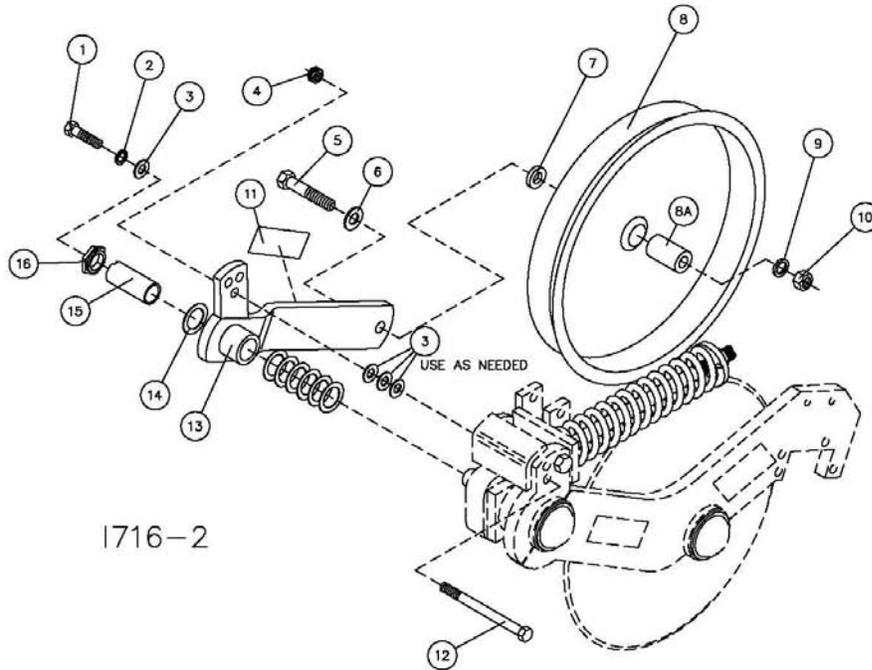
3000-041-L - 18" VIPER® II COULTER ASSY, LH
3000-041-R - 18" VIPER® II COULTER ASSY, RH
MANUFACTURED (11-04 TO 05-08)



| DET | QTY | PART NO. | DESCRIPTION | DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|-------------------------------------|-----|-----|----------|---------------------------------|
| 1 | 4 | 2505-337 | 1/2-13 X 1 1/4 CAR BOLT GR5 ZP | 10 | 1 | 2565-450 | VIPER DECAL |
| 2 | 1 | 2571-208 | 16" FLAT SINGLE BEVEL BLADE | 11 | 1 | 2502-325 | 5/8-11 X 2-1/2 HHCS GR 5 ZP |
| | 1 | 2571-207 | 18" FLAT SINGLE BEVEL BLADE | 12 | 1 | 2565-162 | YETTER DECAL, 1-1/2 X 4-1/2 |
| 3 | 1 | 3000-240 | SPINDLE PLATE W.A. | 13 | 2 | 2531-102 | 1/8 X 1-1/4 COTTER PIN BLACK |
| 4 | 4 | 2525-352 | 1/2 MED LOCKWASHER ZP | 14 | 2 | 2570-375 | HUB CAP, WILTON #909902 |
| 5 | 4 | 2520-352 | 1/2-13 HEX NUT ZP | 15 | 2 | 2520-469 | 5/8-18 SLOTTED HEX NUT, BLACK |
| 6 | 1 | 2520-516 | 3/4-10 LOCK HEX NUT ZP | 16 | 2 | 2526-449 | 5/8 FLATWASHER, 1/4 +- .010 THK |
| 7 | 1 | 2555-096 | SPRING BUSHING CASTING | 17 | 4 | 2550-027 | CONE, LM67048 |
| 8 | 1 | 2550-795 | SPRING, .562" WIRE X 11" LONG | 18 | 1 | 2520-459 | 5/8-11 LOCK HEX NUT ZP |
| 9 | 1 | 3000-238 | MAIN ARM W.A., R.H. (SHOWN) | 19 | 1 | 2995-304 | SPRING ROD, 13 1/2" |
| | 1 | 3000-239 | MAIN ARM W.A., L.H. | 20 | 1 | 3000-245 | PIVOT MOUNT W.A., L.H. |
| 9A | 4 | 2550-029 | CUP, LM67010 | | 1 | 3000-244 | PIVOT MOUNT W.A., R.H. (SHOWN) |
| 9B | 2 | 2550-050 | TRIPLE LIP SEAL, INTERNAL C/R#16064 | | | | |

PARTS IDENTIFICATION

3000-042-L - VIPER® II GAUGE WHEEL ASSY, LH 3000-042-R - VIPER® II GAUGE WHEEL ASSY, RH



| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|------------------------------------|
| 1 | 1 | 2502-294 | 1/2-13 X 1-1/2 HHCS GR. 5 ZP |
| 2 | 1 | 2525-352 | 1/2 MED LOCKWASHER ZP |
| 3 | 4 | 2526-352 | 1/2 SAE FLATWASHER ZP |
| 4 | 1 | 2520-357 | 1/2-13 LOCK HEX NUT, ZP |
| 5 | 1 | 2502-324 | 5/8-11 X 3-1/2 HHCS GR5 ZP |
| 6 | 1 | 2526-453 | 5/8 SAE FLATWASHER, ZP |
| 7 | 1 | 2526-455 | WASHER 21/32" X 1 1/4" X 1/4 |
| 8 | 1 | 2570-146 | 2.5 X 16 GAUGE WHEEL, 40 MM BRG |
| 8A | 1 | 2550-061 | BEARING, 40MM |
| 9 | 1 | 2525-451 | 5/8 MED LOCKWASHER, ZP |
| 10 | 1 | 2520-452 | 5/8-11 HEX NUT, ZP |
| 11 | 1 | 2565-162 | YETTER DECAL, 1-1/2 X 4-1/2 |
| 12 | 1 | 2502-373 | 1/2-13 X 6 HHCS GR. 5 ZP |
| 13 | 1 | 3000-242 | GAUGE WHEEL ARM W.A., R.H. (SHOWN) |
| | 1 | 3000-243 | GAUGE WHEEL ARM W.A., L.H. |
| 14 | 7 | 2526-561 | 1-17/64 ID X 1-7/8 OD X 14 GA MB |
| 15 | 1 | 3000-324 | GAUGE WHEEL ECCENTRIC |
| 16 | 1 | 3000-323 | ECCENTRIC ADJUSTMENT NUT ZYD |

UPDATED 11/30/09

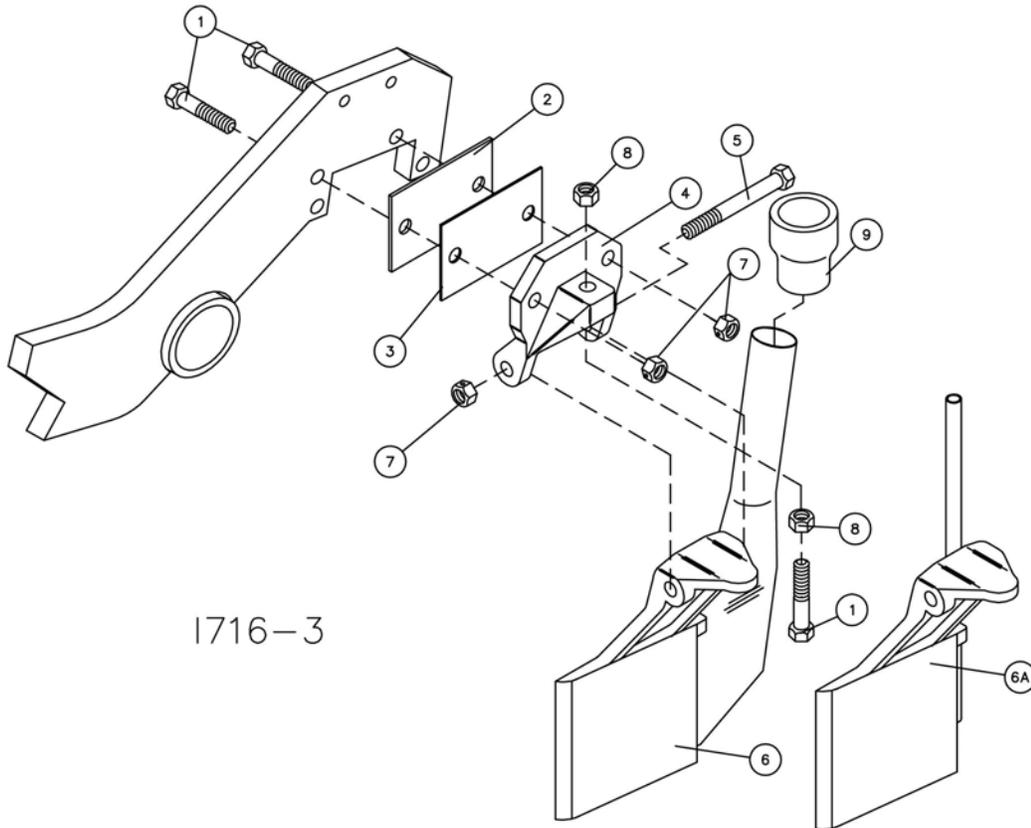
PARTS IDENTIFICATION

3000-043-R - RH 5-1/2 DRY SIDE KNIFE ASSY

3000-043-L - LH 5-1/2 DRY SIDE KNIFE ASSY

3000-044-R - RH 5-1/2 LIQ SIDE KNIFE ASSY

3000-044-L - LH 5-1/2 LIQ SIDE KNIFE ASSY



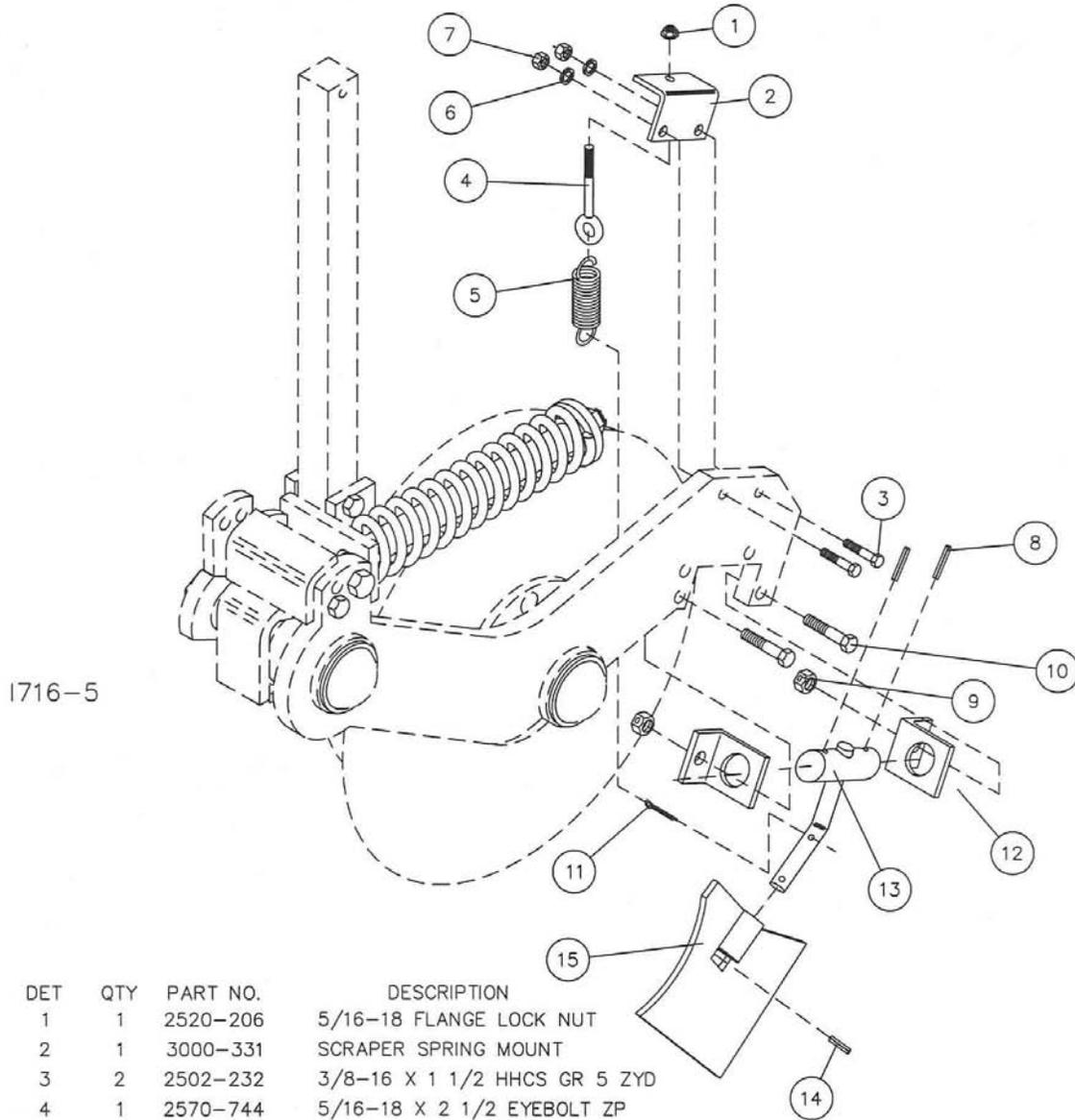
1716-3

| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|---------------------------------------|
| 1 | 3 | 2502-346 | 1/2-13 X 2 FULL THRD HHCS GR. 5 ZP |
| 2 | 2 | 2995-316 | SIDE KNIFE SHIM, 1/8", ZP |
| 3 | 1 | 2995-315 | SIDE KNIFE SHIM, 16 GA., ZP |
| 4 | 1 | 3000-322 | SIDE KNIFE BRACKET, VIPER II |
| 5 | 1 | 2502-362 | 1/2-13 X 5 HHCS GR. 5 ZP |
| 6 | 1 | 3000-235 | RH 5-1/2" DRY SIDE KNIFE W.A. (SHOWN) |
| | 1 | 3000-234 | LH 5-1/2" DRY SIDE KNIFE W.A. |
| 6A | 1 | 3000-124 | RH 5-1/2" LIQ SIDE KNIFE S.A. (SHOWN) |
| | 1 | 3000-125 | LH 5-1/2" LIQ SIDE KNIFE ASSY |
| 7 | 3 | 2520-357 | 1/2-13 HEX LOCK NUT ZP |
| 8 | 2 | 2520-352 | 1/2-13 HEX NUT ZP |
| 9 | 1 | 2515-547 | DRY FERTILIZER ADAPTOR, PVC |

UPDATED 3/26/10

PARTS IDENTIFICATION

3000-045-L - SPRING LOADED SCRAPER, LH
 3000-045-R - SPRING LOADED SCRAPER, RH



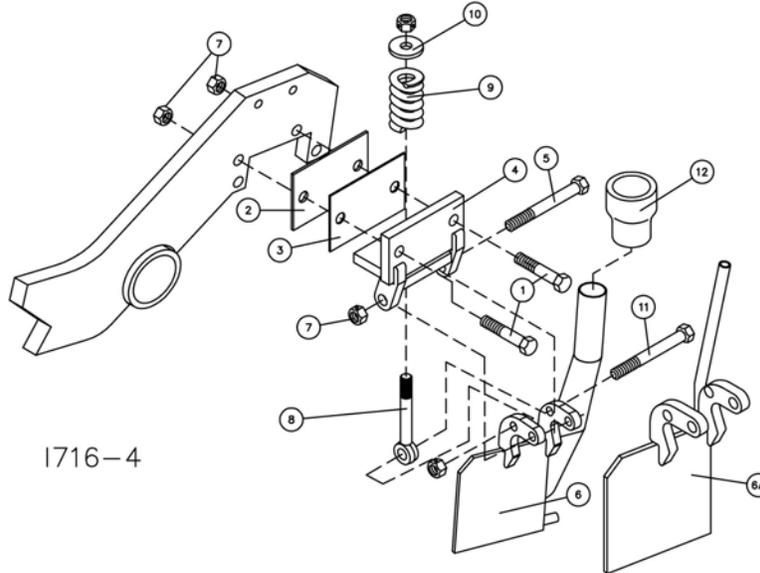
I716-5

| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|------------------------------|
| 1 | 1 | 2520-206 | 5/16-18 FLANGE LOCK NUT |
| 2 | 1 | 3000-331 | SCRAPER SPRING MOUNT |
| 3 | 2 | 2502-232 | 3/8-16 X 1 1/2 HHCS GR 5 ZYD |
| 4 | 1 | 2570-744 | 5/16-18 X 2 1/2 EYEBOLT ZP |
| 5 | 1 | 3000-343 | SCRAPER SPRING, BLACK |
| 6 | 2 | 2525-251 | 3/8 MED. LOCKWASHER Z |
| 7 | 2 | 2520-251 | 3/8-16 HEX NUT ZP |
| 8 | 2 | 2530-152 | 1/4 X 1-1/2 ROLL PIN ZP |
| 9 | 2 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 10 | 2 | 2502-294 | 1/2-13 X 1-1/2 HHCS GR. 5 ZP |
| 11 | 1 | 2531-127 | 1/4 X 1 COTTER PIN ZP |
| 12 | 2 | 3000-332 | PIVOT ANGLE |
| 13 | 1 | 2987-202 | SCRAPER ARM W.A., RH (SHOWN) |
| | | 2987-205 | SCRAPER ARM W.A., LH |
| 14 | 1 | 2530-154 | 1/4 X 1 ROLL PIN ZP |
| 15 | 1 | 3000-246 | SCRAPER W.A. |

PARTS IDENTIFICATION

3000-048-L - 16 SPRING LOADED LIQ SIDE KNIFE ASSY, LH
 3000-048-R - 16 SPRING LOADED LIQ SIDE KNIFE ASSY, RH
 3000-049-L - 16 SPRING LOADED DRY SIDE KNIFE ASSY, LH
 3000-049-R - 16 SPRING LOAD DRY SIDE KNIFE ASSY, RH

3000-050-L - 18 SPRING LOADED LIQ SIDE KNIFE ASSY, LH
 3000-050-R - 18 SPRING LOADED LIQ SIDE KNIFE ASSY, RH
 3000-051-L - 18 SPRING LOADED DRY SIDE KNIFE ASSY, LH
 3000-051-R - 18 SPRING LOAD DRY SIDE KNIFE ASSY, RH

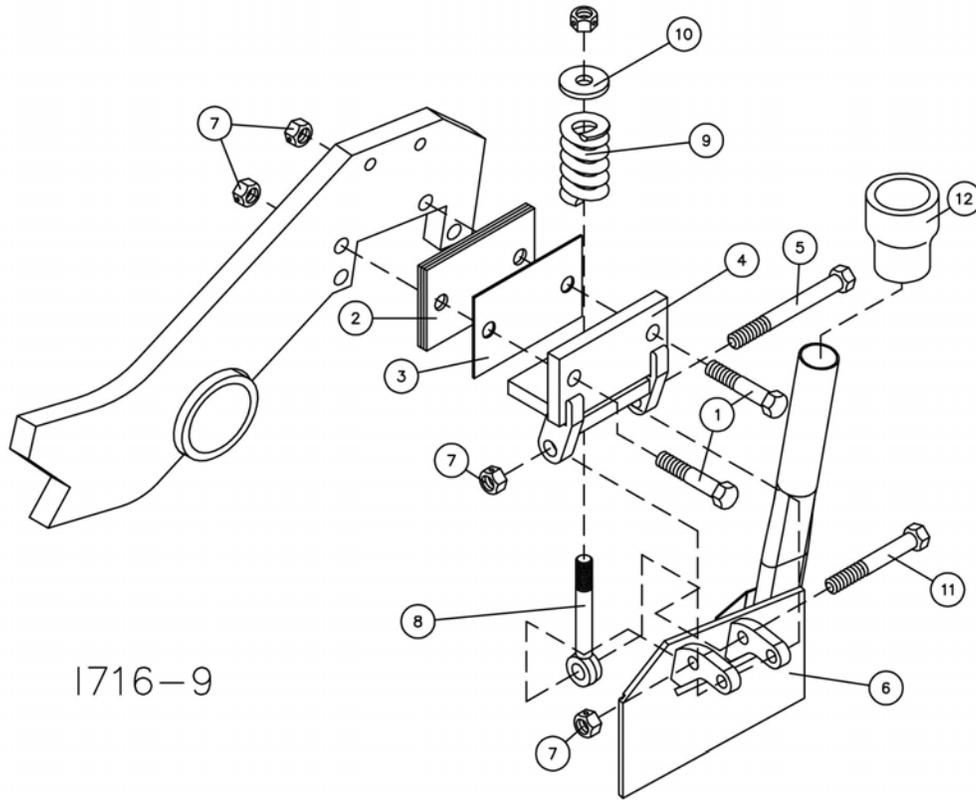


| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--|
| | 2 | 2502-296 | 1/2-13 X 2-1/2 HHCS GR5 ZP |
| | 2 | 2995-316 | SIDE KNIFE SHIM, 1/8", ZP |
| | 1 | 2995-315 | SIDE KNIFE SHIM, 16 GA., ZP |
| | 1 | 3000-251 | SIDE KNIFE MOUNT W.A. |
| | 1 | 2502-362 | 1/2-13 X 5 HHCS GR. 5 ZP |
| | 1 | 3000-250 | 16 SPG LOAD DRY S KNIFE WA, RH (SHOWN) |
| | 1 | 3000-249 | 16 SPG LOAD DRY S KNIFE WA, LH |
| | 1 | 3000-254 | 18 SPG LOAD DRY S KNIFE WA, RH |
| | 1 | 3000-255 | 18 SPG LOAD DRY S KNIFE WA, LH |
| 6A | 1 | 3000-248 | 16 SPG LOAD LIQ S KNIFE WA, RH (SHOWN) |
| | 1 | 3000-247 | 16 SPG LOAD LIQ S KNIFE WA, LH |
| | 1 | 3000-252 | 18 SPG LOAD LIQ S KNIFE WA, RH |
| | 1 | 3000-253 | 18 SPG LOAD LIQ S KNIFE WA, LH |
| | 5 | 2520-363 | 1/2-13 NYL INSERT LOCKNUT ZYD |
| | 1 | 2570-447 | EYEBOLT, 1/2-13 X 4, ZYD |
| | 1 | 3000-344 | 2 1/2" LEE SPRING# LHL-1500B-2,BLK |
| | 1 | 2527-330 | 1/2IDX1 1/2 OD X 7 GA MA BU ZP |
| | 1 | 2502-364 | 1/2-13 X 4 HHCS GR. 5 ZP |
| | 1 | 2515-547 | DRY FERTILIZER ADAPTOR, PVC |

UPDATED 10/28/10

PARTS IDENTIFICATION

3000-075-R - 16 SPG LOAD DRY S KNIFE ASSY, RH



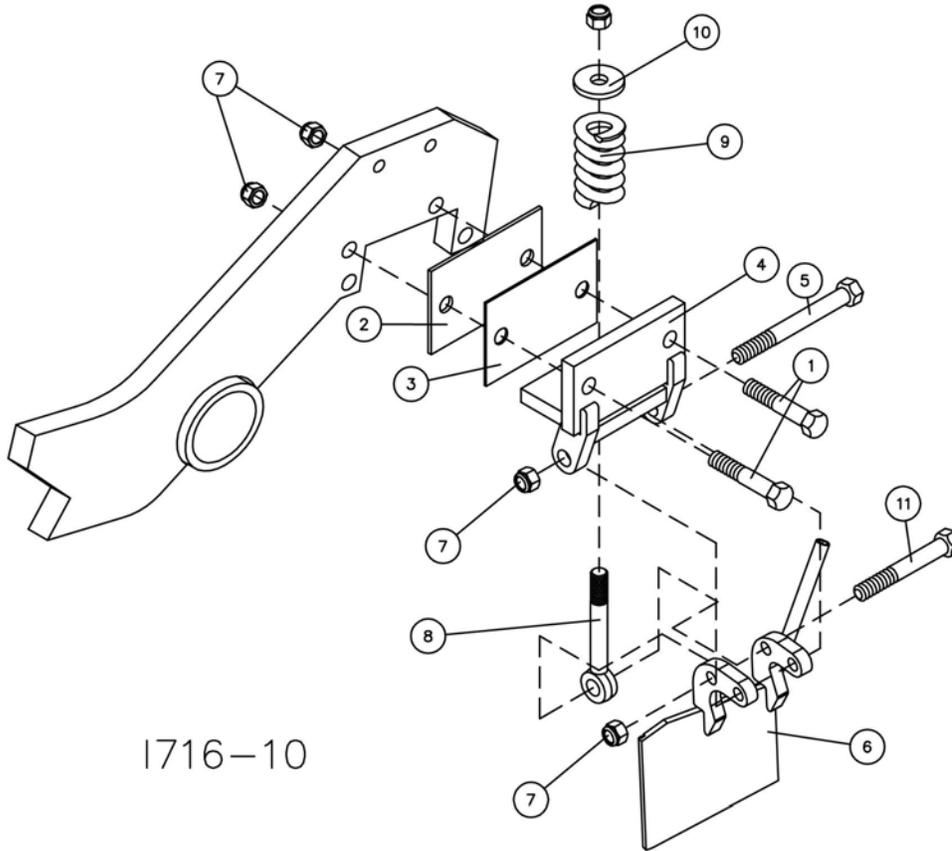
| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--|
| 1 | 2 | 2502-296 | 1/2-13 X 2-1/2" HHCS GR.5 ZP. |
| 2 | 3 | 2995-316 | SIDE KNIFE SHIM, 1/8", ZP |
| 3 | 1 | 2995-315 | SIDE KNIFE SHIM, 16 GA., ZP |
| 4 | 1 | 3000-251 | SIDE KNIFE MOUNT W.A. |
| 5 | 1 | 2502-362 | 1/2-13 X 5 HHCS GR. 5 ZP |
| 6 | 1 | 3000-200 | 16 SPG LOAD DRY S KNIFE WA, RH (SHOWN) |
| | 1 | 3000-201 | 16 SPG LOAD DRY S KNIFE WA, LH |
| 7 | 5 | 2520-363 | 1/2-13 NYL INSERT LOCKNUT ZYD |
| 8 | 1 | 2570-447 | EYEBOLT, 1/2-13 X 4, ZYD |
| 9 | 1 | 3000-344 | 2 1/2" LEE SPRING# LHL-1500B-2, BLK |
| 10 | 1 | 2527-330 | 1/2IDX1 1/2 OD X 7 GA MA BU ZP |
| 11 | 1 | 2502-364 | 1/2-13 X 4 HHCS GR. 5 ZP |
| 12 | 1 | 2515-547 | DRY FERTILIZER ADAPTOR, PVC |

UPDATED 09/14/10

MFG 1-26-10 TO PRESENT

PARTS IDENTIFICATION

3000-076-R - 16 SPG LOAD LIQ S KNIFE ASSY, RH



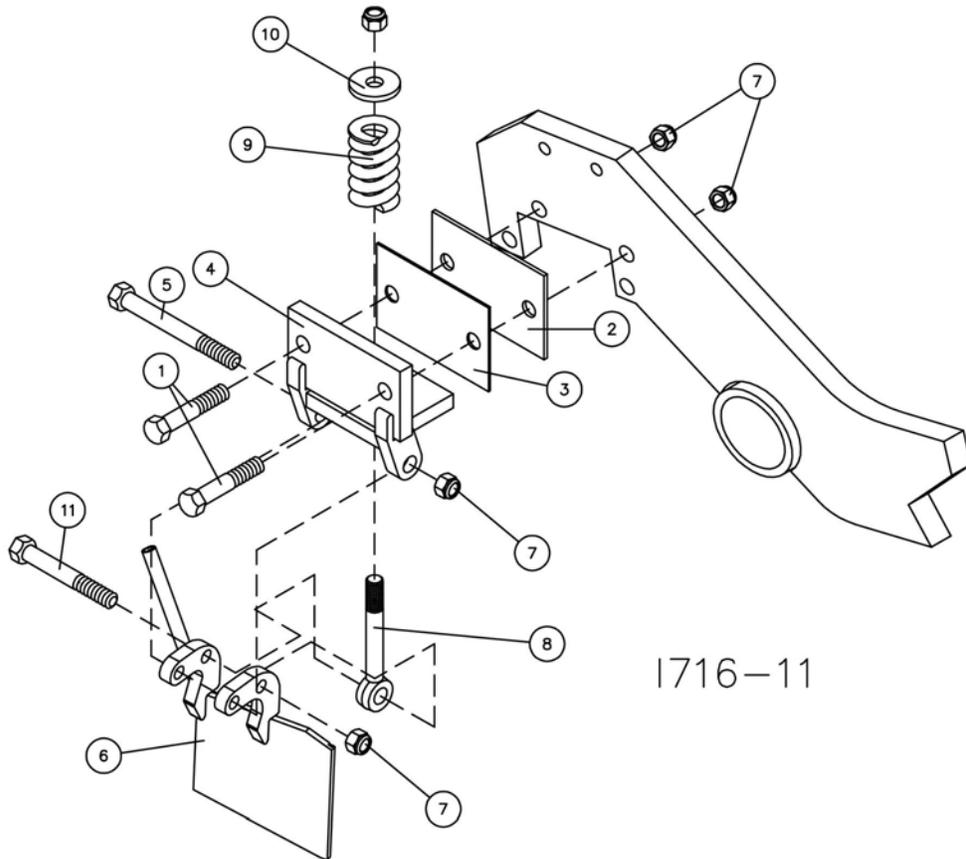
I716-10

| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|-------------------------------------|
| 1 | 2 | 2502-296 | 1/2-13 X 2-1/2 HHCS GR5 ZP |
| 2 | 2 | 2995-316 | SIDE KNIFE SHIM, 1/8", ZP |
| 3 | 1 | 2995-315 | SIDE KNIFE SHIM, 16 GA., ZP |
| 4 | 1 | 3000-251 | SIDE KNIFE MOUNT W.A. |
| 5 | 1 | 2502-362 | 1/2-13 X 5 HHCS GR. 5 ZP |
| 6 | 1 | 3000-206 | 16 SPG LOAD LIQ S KNIFE WA, RH |
| 7 | 5 | 2520-363 | 1/2-13 NYL INSERT LOCKNUT ZYD |
| 8 | 1 | 2570-447 | EYEBOLT, 1/2-13 X 4-1/4, ZYD |
| 9 | 1 | 3000-344 | 2 1/2" LEE SPRING# LHL-1500B-2, BLK |
| 10 | 1 | 2527-330 | 1/2IDX1 1/2 OD X 7 GA MA BU ZP |
| 11 | 1 | 2502-364 | 1/2-13 X 4 HHCS GR. 5 ZP |

UPDATED 05/16/11

PARTS IDENTIFICATION

3000-076-L - 16 SPG LOAD LIQ S KNIFE ASSY, LH

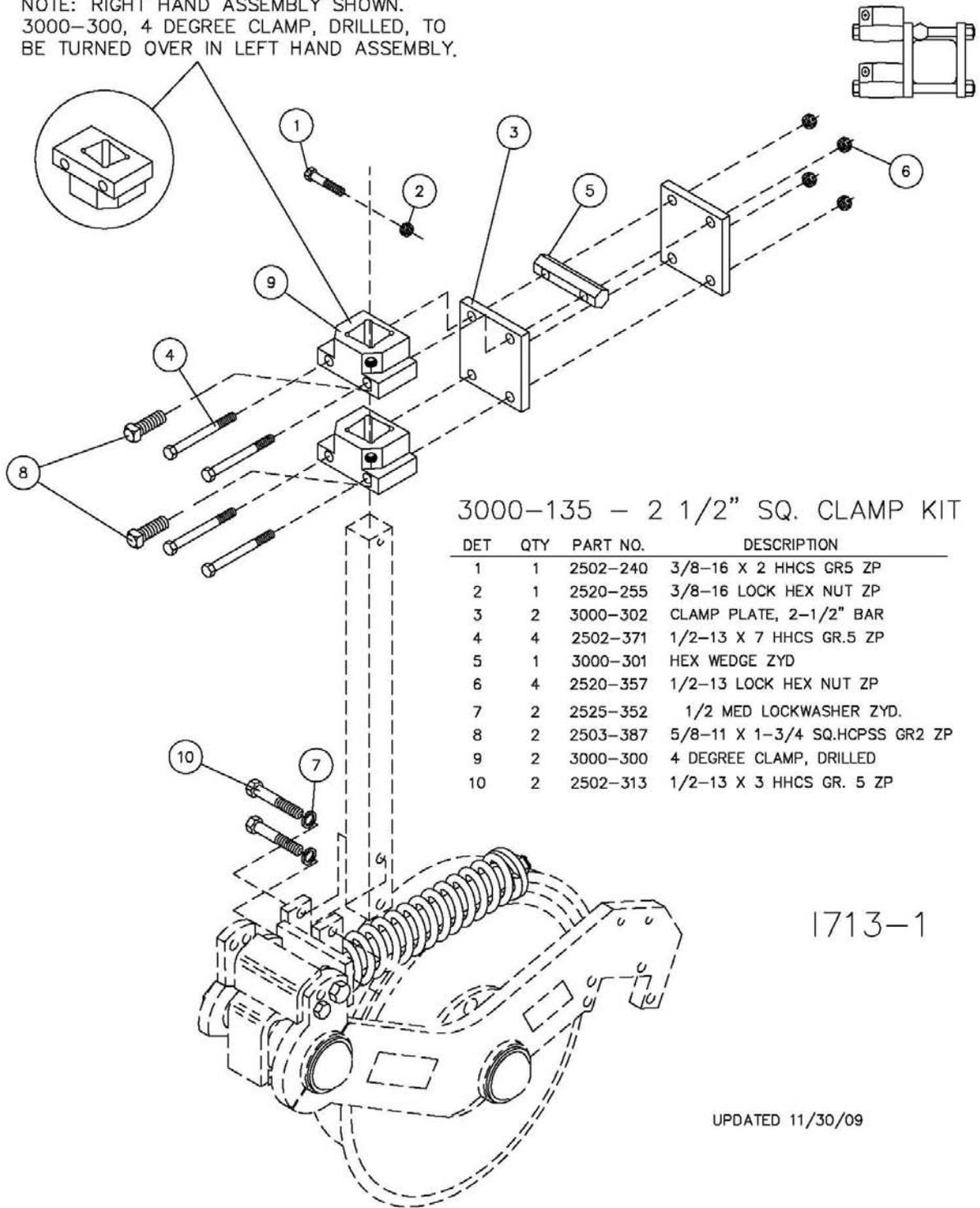


| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|-------------------------------------|
| 1 | 2 | 2502-296 | 1/2-13 X 2-1/2 HHCS GR5 ZP |
| 2 | 2 | 2995-316 | SIDE KNIFE SHIM, 1/8", ZP |
| 3 | 1 | 2995-315 | SIDE KNIFE SHIM, 16 GA., ZP |
| 4 | 1 | 3000-251 | SIDE KNIFE MOUNT W.A. |
| 5 | 1 | 2502-362 | 1/2-13 X 5 HHCS GR. 5 ZP |
| 6 | 1 | 3000-207 | 16 SPG LOAD LIQ S KNIFE WA, LH |
| 7 | 5 | 2520-363 | 1/2-13 NYL INSERT LOCKNUT ZYD |
| 8 | 1 | 2570-447 | EYEBOLT, 1/2-13 X 4-1/4, ZYD |
| 9 | 1 | 3000-344 | 2 1/2" LEE SPRING# LHL-1500B-2, BLK |
| 10 | 1 | 2527-330 | 1/2IDX1 1/2 OD X 7 GA MA BU ZP |
| 11 | 1 | 2502-364 | 1/2-13 X 4 HHCS GR. 5 ZP |

UPDATED 05/16/11

PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



3000-135 - 2 1/2" SQ. CLAMP KIT

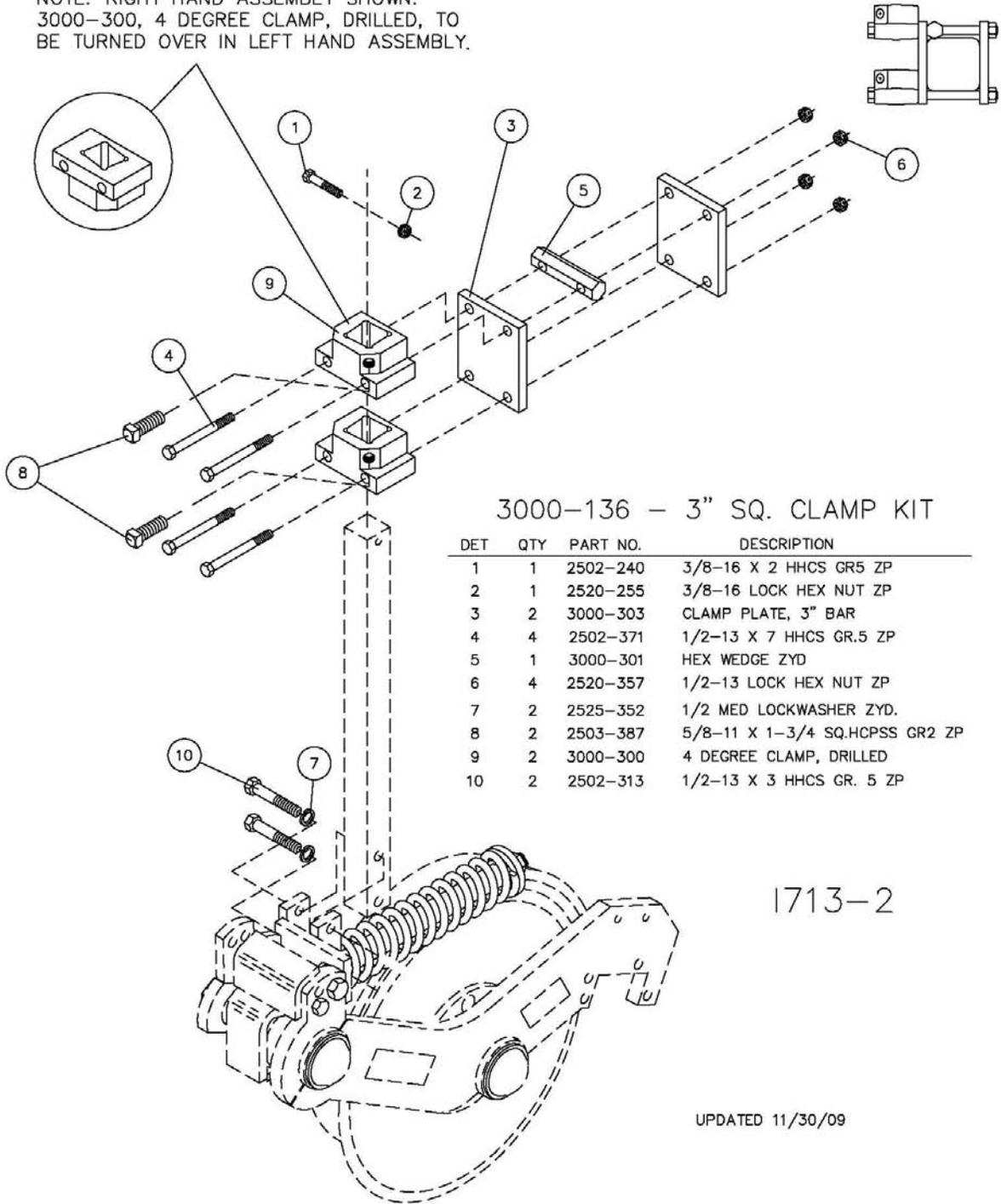
| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2502-240 | 3/8-16 X 2 HHCS GR5 ZP |
| 2 | 1 | 2520-255 | 3/8-16 LOCK HEX NUT ZP |
| 3 | 2 | 3000-302 | CLAMP PLATE, 2-1/2" BAR |
| 4 | 4 | 2502-371 | 1/2-13 X 7 HHCS GR.5 ZP |
| 5 | 1 | 3000-301 | HEX WEDGE ZYD |
| 6 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 7 | 2 | 2525-352 | 1/2 MED LOCKWASHER ZYD. |
| 8 | 2 | 2503-387 | 5/8-11 X 1-3/4 SQ.HCPSS GR2 ZP |
| 9 | 2 | 3000-300 | 4 DEGREE CLAMP, DRILLED |
| 10 | 2 | 2502-313 | 1/2-13 X 3 HHCS GR. 5 ZP |

1713-1

UPDATED 11/30/09

PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



3000-136 - 3" SQ. CLAMP KIT

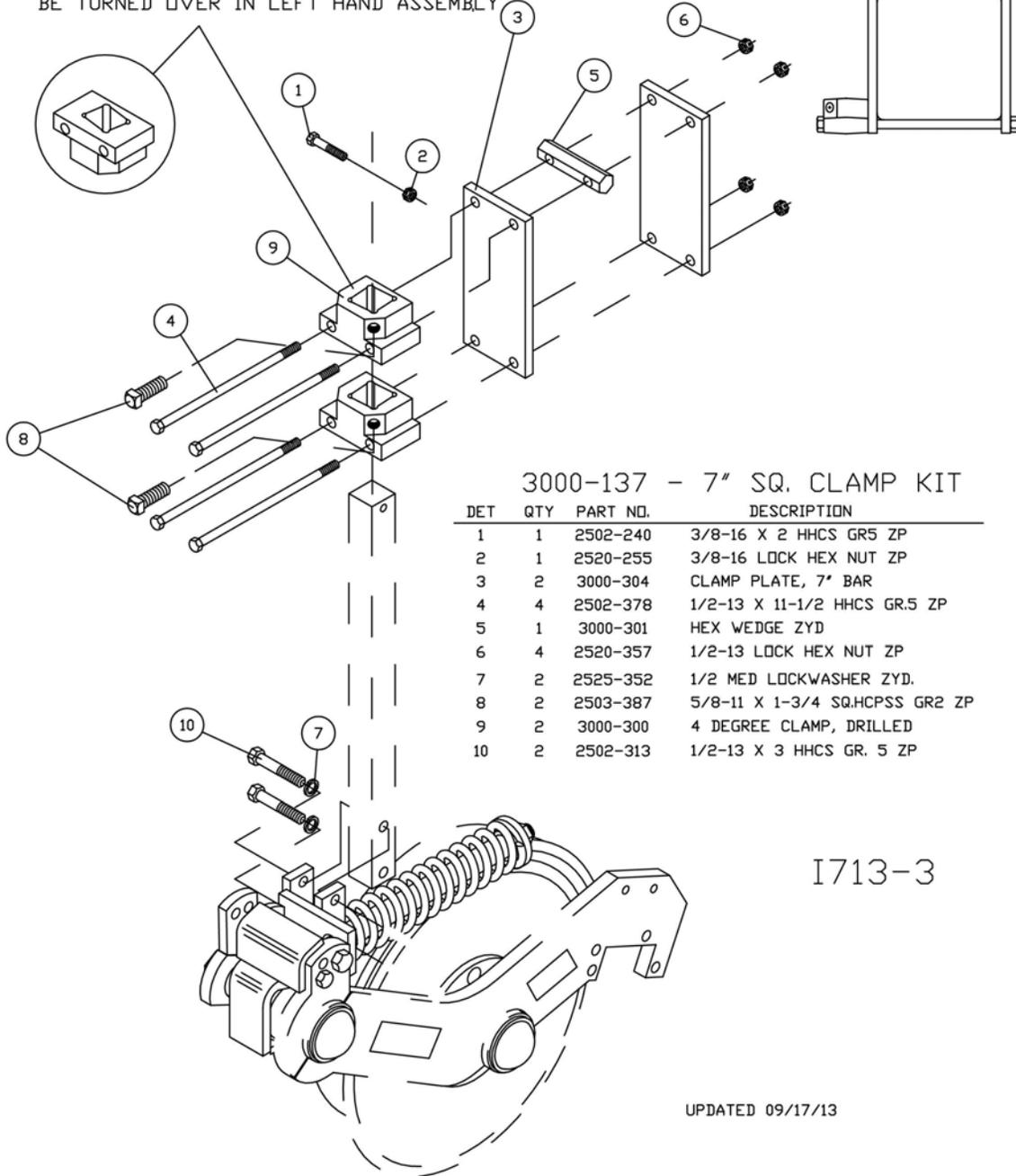
| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2502-240 | 3/8-16 X 2 HHCS GR5 ZP |
| 2 | 1 | 2520-255 | 3/8-16 LOCK HEX NUT ZP |
| 3 | 2 | 3000-303 | CLAMP PLATE, 3" BAR |
| 4 | 4 | 2502-371 | 1/2-13 X 7 HHCS GR.5 ZP |
| 5 | 1 | 3000-301 | HEX WEDGE ZYD |
| 6 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 7 | 2 | 2525-352 | 1/2 MED LOCKWASHER ZYD. |
| 8 | 2 | 2503-387 | 5/8-11 X 1-3/4 SQ.HCPSS GR2 ZP |
| 9 | 2 | 3000-300 | 4 DEGREE CLAMP, DRILLED |
| 10 | 2 | 2502-313 | 1/2-13 X 3 HHCS GR. 5 ZP |

1713-2

UPDATED 11/30/09

PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY

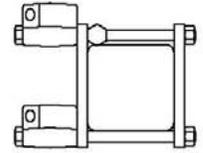
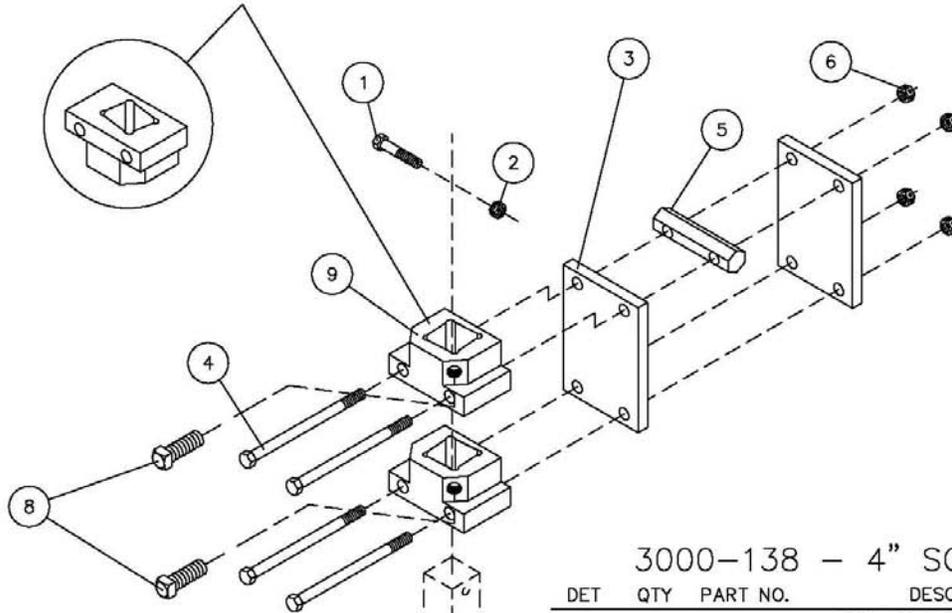


I713-3

UPDATED 09/17/13

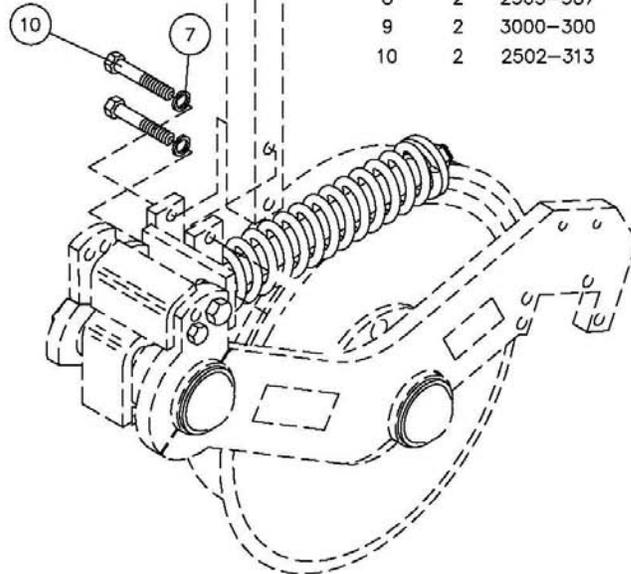
PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



3000-138 - 4" SQ. CLAMP KIT

| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2502-240 | 3/8-16 X 2 HHCS GR5 ZP |
| 2 | 1 | 2520-255 | 3/8-16 LOCK HEX NUT ZP |
| 3 | 2 | 3000-305 | CLAMP PLATE, 4" BAR |
| 4 | 4 | 2502-375 | 1/2-13 X 8-1/2 HHCS GR.5 ZP |
| 5 | 1 | 3000-301 | HEX WEDGE ZYD |
| 6 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 7 | 2 | 2525-352 | 1/2 MED LOCKWASHER ZYD. |
| 8 | 2 | 2503-387 | 5/8-11 X 1-3/4 SQ.HCPSS GR2 ZP |
| 9 | 2 | 3000-300 | 4 DEGREE CLAMP, DRILLED |
| 10 | 2 | 2502-313 | 1/2-13 X 3 HHCS GR. 5 ZP |

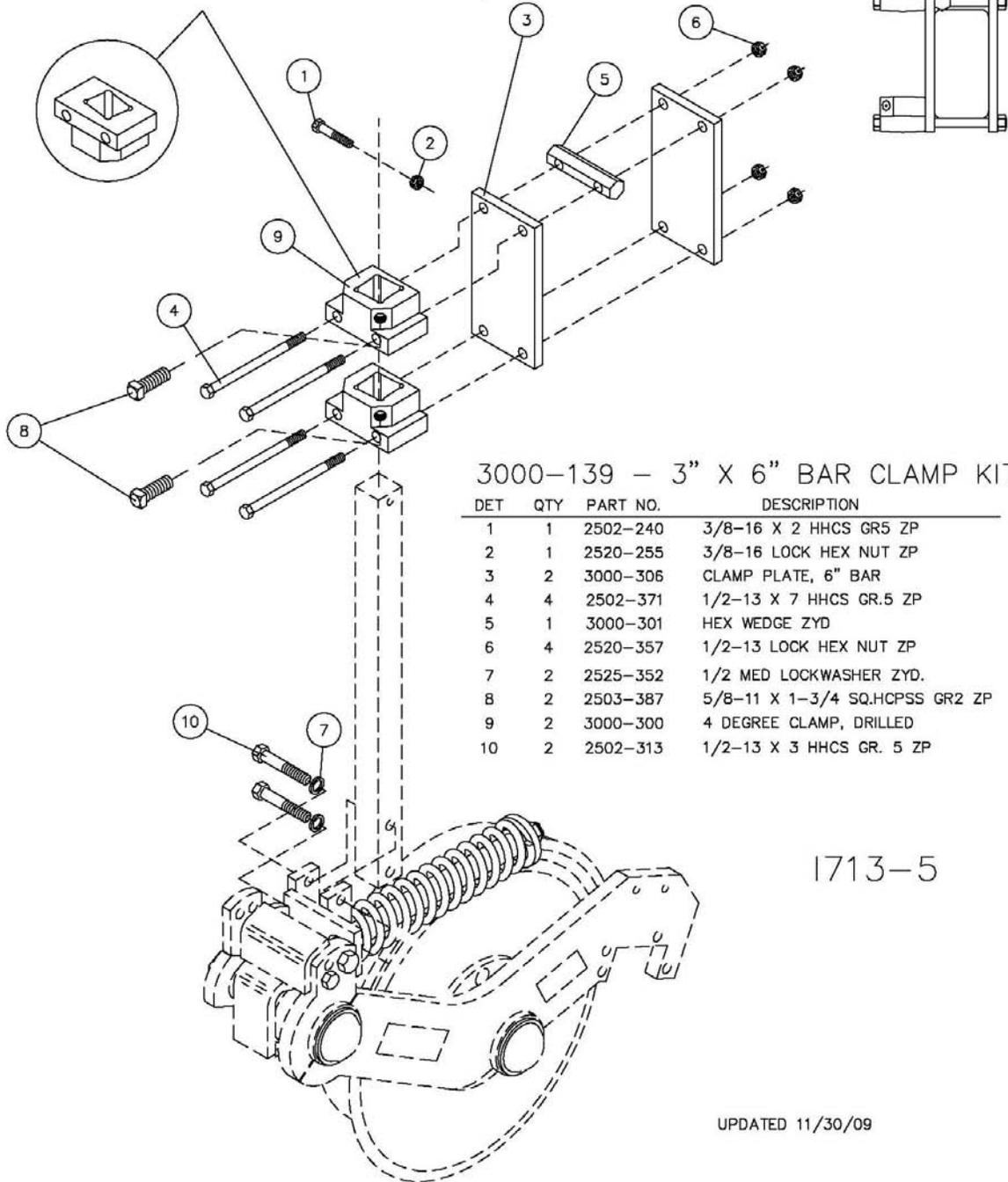


1713-4

UPDATED 11/30/09

PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



3000-139 - 3" X 6" BAR CLAMP KIT

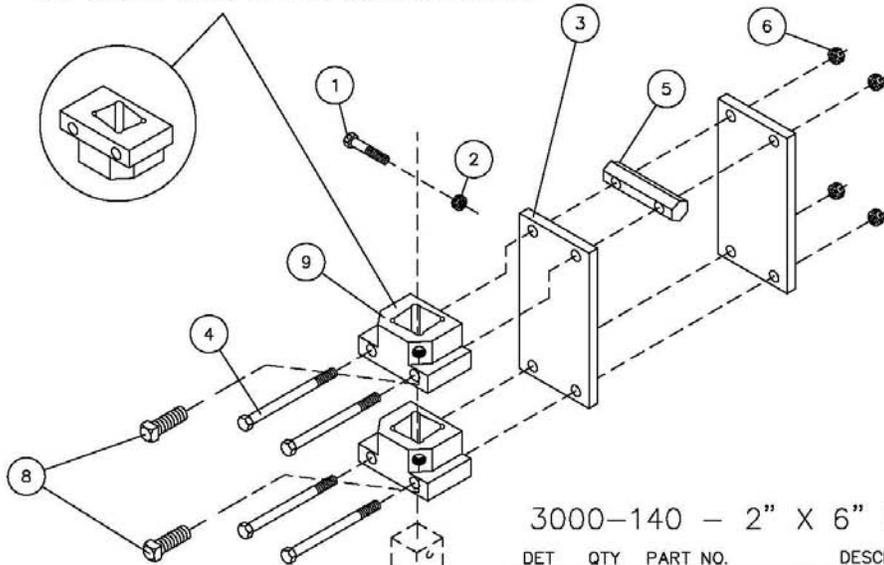
| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2502-240 | 3/8-16 X 2 HHCS GR5 ZP |
| 2 | 1 | 2520-255 | 3/8-16 LOCK HEX NUT ZP |
| 3 | 2 | 3000-306 | CLAMP PLATE, 6" BAR |
| 4 | 4 | 2502-371 | 1/2-13 X 7 HHCS GR.5 ZP |
| 5 | 1 | 3000-301 | HEX WEDGE ZYD |
| 6 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 7 | 2 | 2525-352 | 1/2 MED LOCKWASHER ZYD. |
| 8 | 2 | 2503-387 | 5/8-11 X 1-3/4 SQ.HCPSS GR2 ZP |
| 9 | 2 | 3000-300 | 4 DEGREE CLAMP, DRILLED |
| 10 | 2 | 2502-313 | 1/2-13 X 3 HHCS GR. 5 ZP |

1713-5

UPDATED 11/30/09

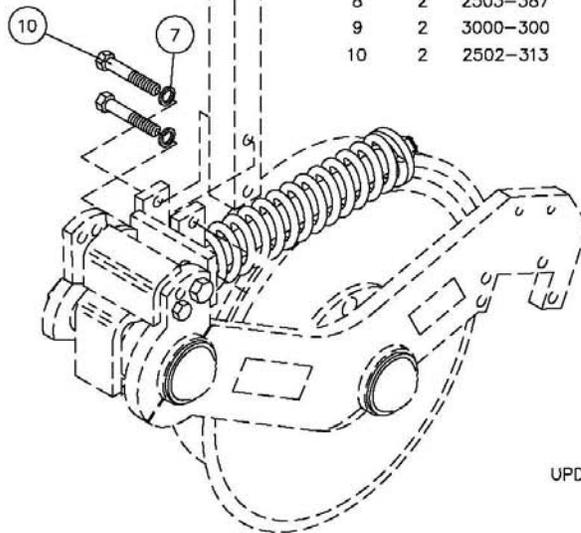
PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



3000-140 - 2" X 6" BAR CLAMP KIT

| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2502-240 | 3/8-16 X 2 HHCS GR5 ZP |
| 2 | 1 | 2520-255 | 3/8-16 LOCK HEX NUT ZP |
| 3 | 2 | 3000-306 | CLAMP PLATE, 6" BAR |
| 4 | 4 | 2502-372 | 1/2-13 X 6-1/2 HHCS GR.5 ZP |
| 5 | 1 | 3000-301 | HEX WEDGE ZYD |
| 6 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 7 | 2 | 2525-352 | 1/2 MED LOCKWASHER ZYD. |
| 8 | 2 | 2503-387 | 5/8-11 X 1-3/4 SQ.HCPSS GR2 ZP |
| 9 | 2 | 3000-300 | 4 DEGREE CLAMP, DRILLED |
| 10 | 2 | 2502-313 | 1/2-13 X 3 HHCS GR. 5 ZP |

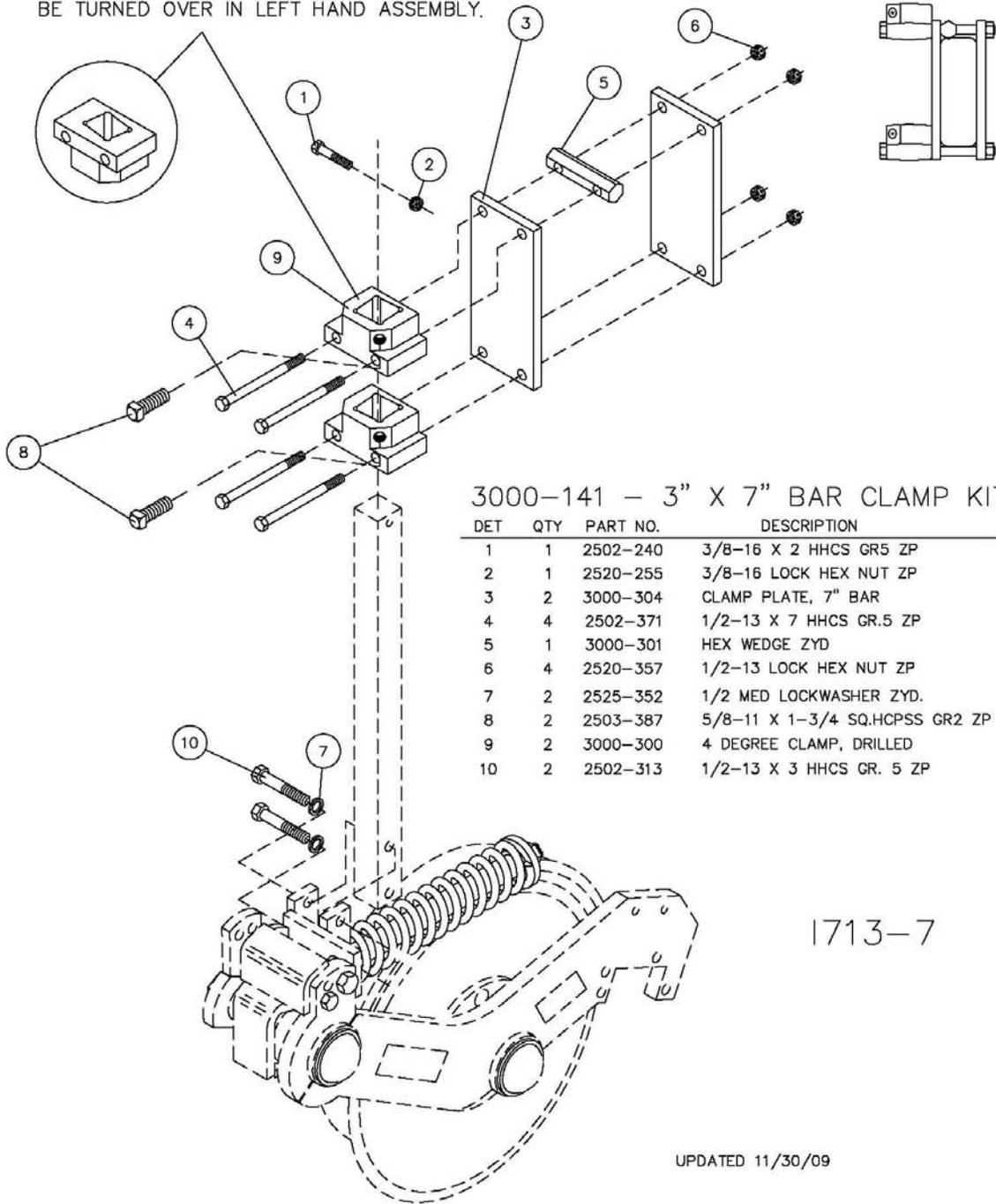


1713-6

UPDATED 11/30/09

PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



3000-141 - 3" X 7" BAR CLAMP KIT

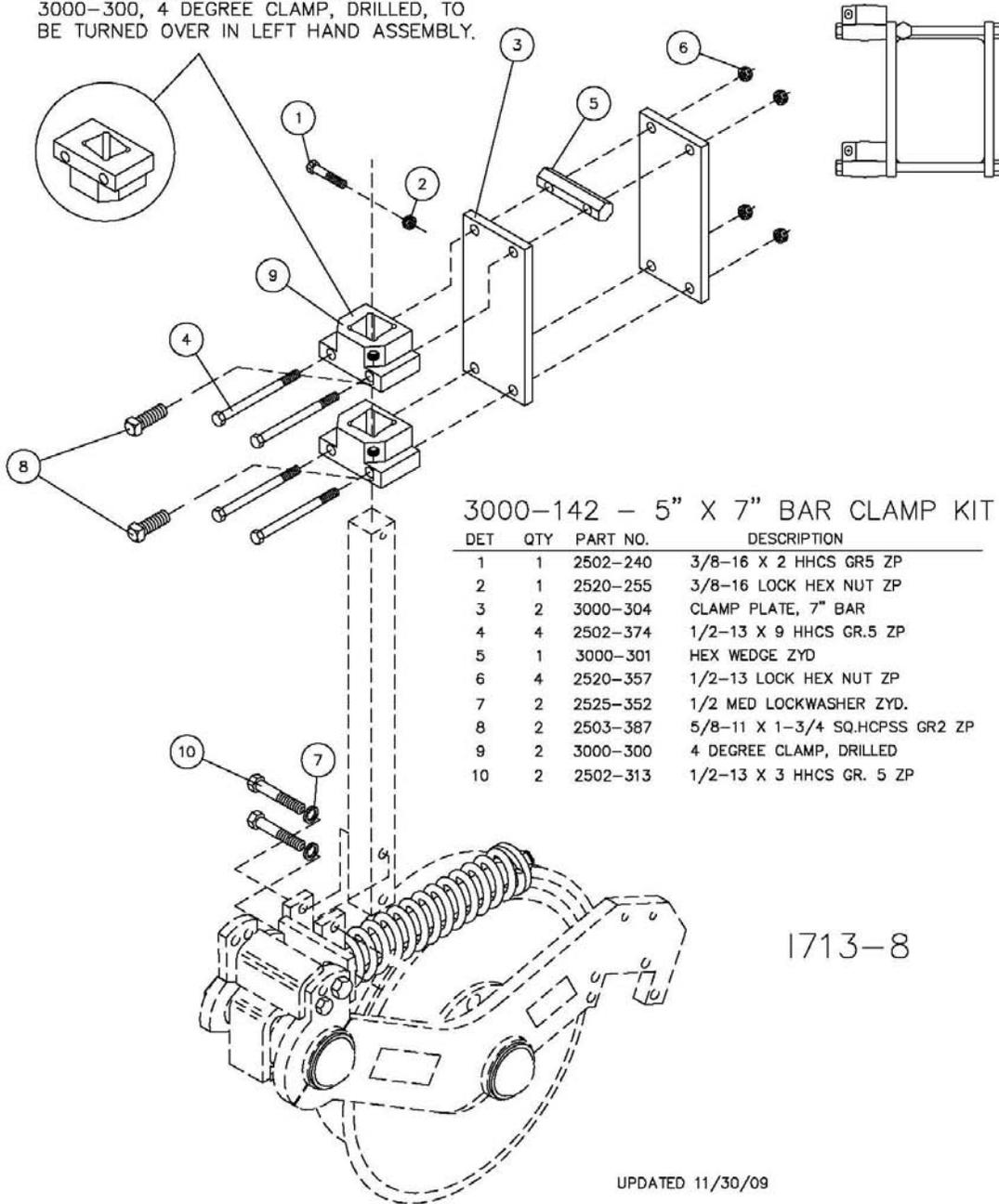
| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2502-240 | 3/8-16 X 2 HHCS GR5 ZP |
| 2 | 1 | 2520-255 | 3/8-16 LOCK HEX NUT ZP |
| 3 | 2 | 3000-304 | CLAMP PLATE, 7" BAR |
| 4 | 4 | 2502-371 | 1/2-13 X 7 HHCS GR.5 ZP |
| 5 | 1 | 3000-301 | HEX WEDGE ZYD |
| 6 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 7 | 2 | 2525-352 | 1/2 MED LOCKWASHER ZYD. |
| 8 | 2 | 2503-387 | 5/8-11 X 1-3/4 SQ.HCPSS GR2 ZP |
| 9 | 2 | 3000-300 | 4 DEGREE CLAMP, DRILLED |
| 10 | 2 | 2502-313 | 1/2-13 X 3 HHCS GR. 5 ZP |

1713-7

UPDATED 11/30/09

PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



3000-142 - 5" X 7" BAR CLAMP KIT

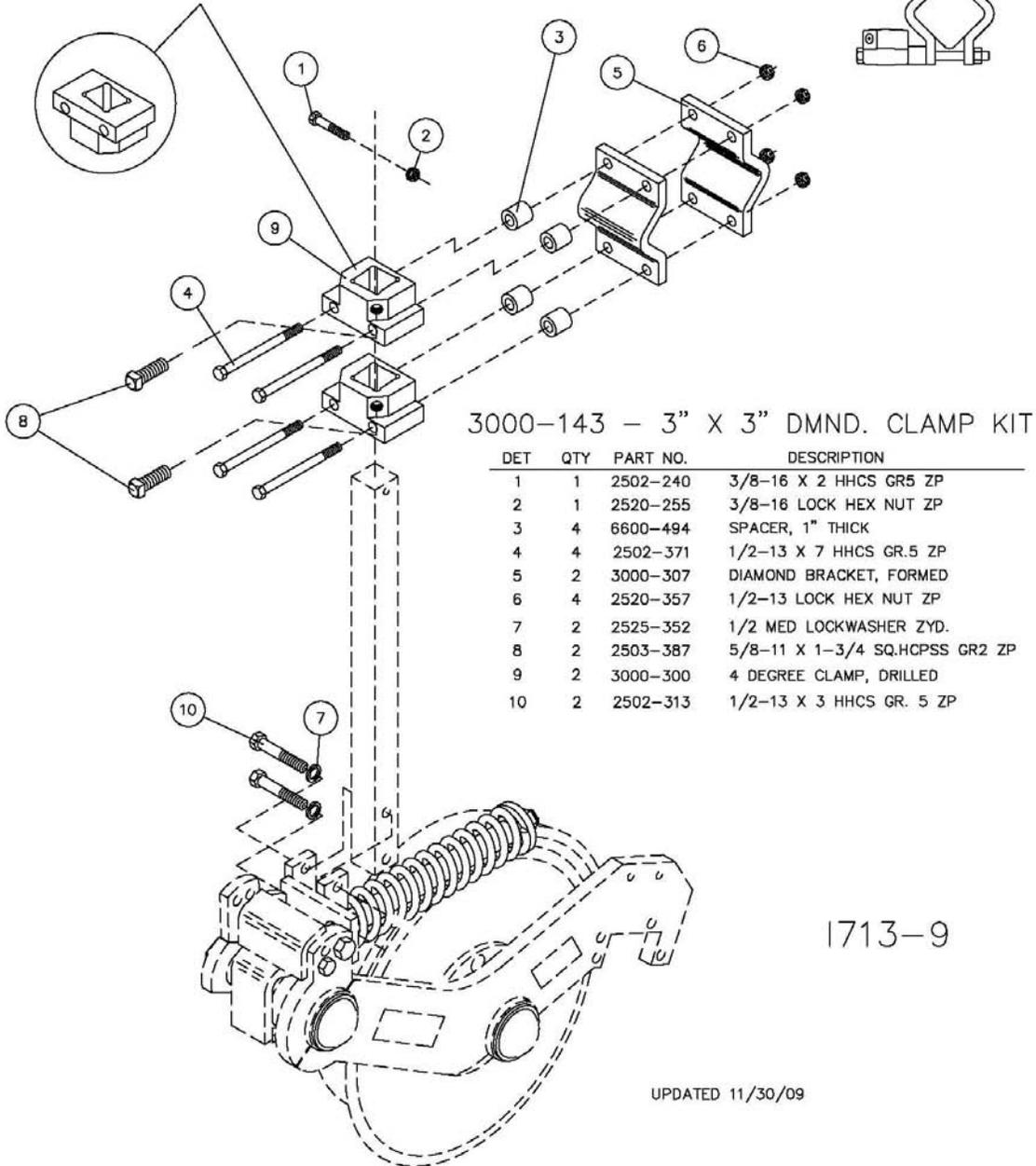
| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2502-240 | 3/8-16 X 2 HHCS GR5 ZP |
| 2 | 1 | 2520-255 | 3/8-16 LOCK HEX NUT ZP |
| 3 | 2 | 3000-304 | CLAMP PLATE, 7" BAR |
| 4 | 4 | 2502-374 | 1/2-13 X 9 HHCS GR.5 ZP |
| 5 | 1 | 3000-301 | HEX WEDGE ZYD |
| 6 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 7 | 2 | 2525-352 | 1/2 MED LOCKWASHER ZYD. |
| 8 | 2 | 2503-387 | 5/8-11 X 1-3/4 SQ.HCPSS GR2 ZP |
| 9 | 2 | 3000-300 | 4 DEGREE CLAMP, DRILLED |
| 10 | 2 | 2502-313 | 1/2-13 X 3 HHCS GR. 5 ZP |

1713-8

UPDATED 11/30/09

PARTS IDENTIFICATION

NOTE: RIGHT HAND ASSEMBLY SHOWN.
3000-300, 4 DEGREE CLAMP, DRILLED, TO
BE TURNED OVER IN LEFT HAND ASSEMBLY.



NOTES

NOTES

NOTES

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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E-MAIL: INFO@YETTERCO.COM