



# FERTILIZER COULTER

MODEL 2995/2996

## SET-UP & PARTS MANUAL

2565-369\_REV\_F - 02/2019

**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)

## 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**

**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.

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

## **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 PERSONAL INJURY OR DEATH.**

# YETTER MODEL 2995/2996 FERTILIZER COULTER

## CLAMPS

| Part No. | Description                        |
|----------|------------------------------------|
| 2990-153 | Clamp Kit, 2" Sq. Bar              |
| 2990-154 | Clamp Kit, 2 1/2" Sq. Bar          |
| 2990-155 | Clamp Kit, 2 x 6 Bar               |
| 2990-156 | Clamp Kit, 4 x 4 Bar               |
| 2990-157 | Clamp Kit, 5 x 7 Bar               |
| 2990-158 | Clamp Kit, 7 x 7 Bar               |
| 2990-159 | Clamp Kit, 3" Dmd Bar              |
| 2990-160 | Clamp Kit, 3 1/2" Dmd Bar          |
| 2990-161 | Clamp Kit, 3 x 7 Bar               |
| 2990-162 | Clamp Kit, 2 1/2" Sq., 1/2" Spacer |
| 2990-163 | Clamp Kit, 3" Sq. Bar              |
| 2990-166 | Clamp Kit, 2 1/4", 2 1/2" Dmd Bar  |
| 2990-171 | Clamp Kit, 3 x 4 Bar               |
| 2990-172 | Clamp Kit, 4 x 6 Bar               |
| 2990-173 | Clamp Kit, 6 x 4 Bar               |
| 2990-174 | Clamp Kit, 7 x 5 Bar               |
| 2990-175 | Clamp Kit, 7 x 4 Bar               |
| 2990-181 | Clamp Kit, 4 x 10 Special          |
| 2990-182 | Clamp Kit, 4 x 7 Bar               |
| 6300-105 | Clamp Kit, 5 x 5 Bar               |

## SHANKS

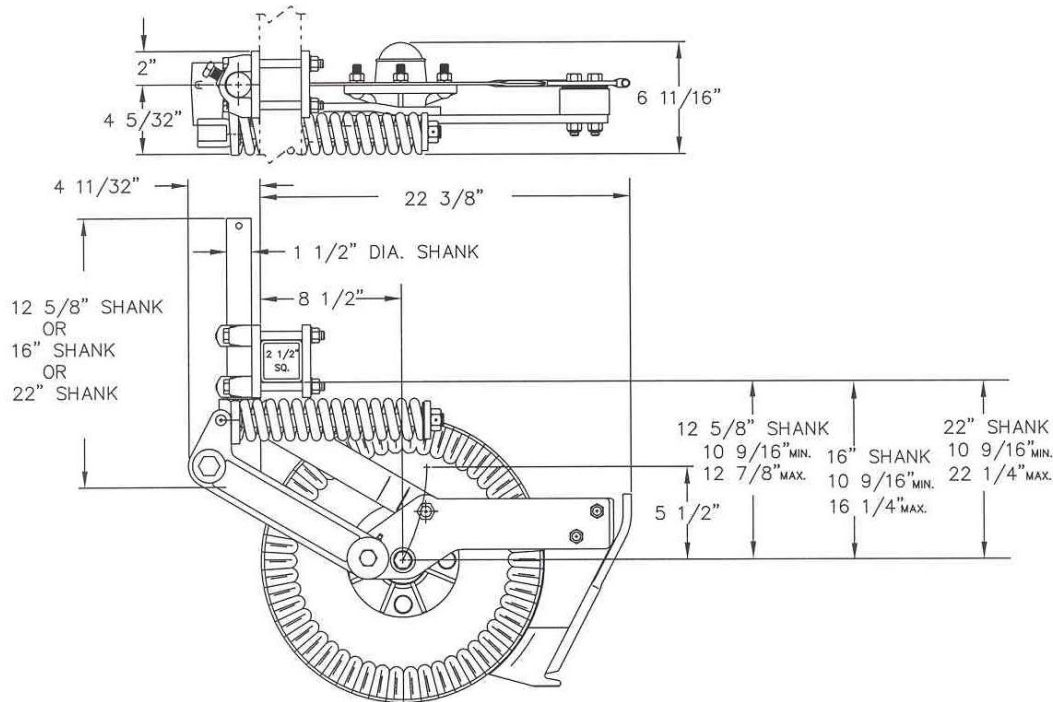
| Part No. | Description                    |
|----------|--------------------------------|
| 2990-208 | Shank, 12 5/8" Long, 3" Offset |
| 2990-221 | Shank, 27" Long, 3" Offset     |
| 2990-310 | Shank, 12 5/8"                 |
| 2990-318 | Shank, 16"                     |
| 2990-328 | Shank, 26"                     |
| 2990-342 | Shank, 18" Long, 3/4" Offset   |
| 2990-350 | Shank, 27 1/8"                 |
| 2990-353 | Shank, 22" Long, 3/4" Offset   |
| 2990-354 | Shank, 18" Long, 5 1/2" Offset |
| 2990-370 | Shank, 30" Long                |
| 2990-377 | Shank, 15" Long, 5 1/2" Offset |
| 3010-303 | Shank, 22"                     |
| 3011-302 | Shank, 22" Long, 5 1/2" Offset |
| 6300-331 | Shank, 19" Long, 3/4" Offset   |

## FERTILIZER KNIVES

|          |                         |
|----------|-------------------------|
| 2975-232 | Dry Fertilizer Knife    |
| 2975-220 | Liquid Fertilizer Knife |

## OPTIONAL EQUIPMENT

|          |                   |
|----------|-------------------|
| 2975-120 | Gauge Wheel Kit   |
| 2970-133 | Knife Scraper 17" |
| 2976-133 | Knife Scraper 20" |



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## INSTALLATION

1. Assembly 3/8 x 2-1/2" roll pin into hole closest to end of 1-1/2" diameter shank, leaving approximately equal amount protruding out each side. For 12-5/8" shank, end without hole is upper end.
2. Insert lock collar into pivot casting and slide shank up through casting and lock collar. If you wish to lock coulters from pivoting, slide roll pin into slots in casting. If you wish to let coulters pivot, do not align roll pin with casting slots, but slide shank up till roll pin contacts casting surface. Install and tighten 5/8 x 1" setscrew in lock collar to 110 ft. lb. torque maximum.
3. Mount 17" coulters blade loosely to hub using four 1/2" carriage bolts, lockwashers and nuts.
4. Mount fertilizer knife and spacer block to rear support arm using two 1/2 x 3-1/2" Gr. 8 bolts, hardened flatwashers and lock nuts. Place shims between knife and support arm as required to align knife point with blade.
5. **Center blade on hub** by rotating blade and watching clearance between knife and blade. Slide blade on hub as required until the blade runs concentric, no run out on diameter. Tighten four 1/2" nuts. **The disc blade must run concentric.**
6. Adjust knife clearance to blade **as close as possible**. The high point of the blade should **just** clear the knife as blade is rotated. Be sure blade rotates freely then tighten two 1/2" locknuts to 120 ft. lb. Re-check clearance, by rotating blade one full revolution, after all bolts are tightened.
7. Assemble clamp components loosely to planter front bar as shown in parts view of appropriate clamp.
8. Position coulters clamps either toward the inside or outside of the planter openers on each side of the planter to equalize draft. Tighten four 1/2" nuts to secure the clamps.
9. Install coulters on planter by inserting shank up through clamps and tightening 5/8 x 1" setscrews.
10. Install 5/16 x 2-1/2" cotter pins in all vertical 1-1/2" diameter shanks. This cotter pin prevents loss of coulters should the clamp setscrews work loose. Cotter pin can be installed between clamp castings or on top, above top casting depending on shank.
11. Set coulters depth by loosening setscrews in clamp castings. For John Deere 7000 front fold planters there may not be enough up adjustment to operate coulters at proper depth, not more than hub deep. Not all toolbars on John Deere planters operate at the same height. If necessary, cut off top of 1/12" diameter shank to allow proper adjustment.
12. On John Deere 7000 front fold planters there are two hoses that may interfere with coulters operation. Loosen hydraulic fittings and swivel hoses up out of the way to provide clearance when coulters flex up.
13. Let coulters swivel, set lock collar to allow swivel in one or both directions as required. Tighten set screw to 110 ft. lb. torque maximum.
14. Tighten 3/4" locknut if greater spring pre-load is required.
15. Grease three fittings on each coulters before operation. The hub bearings should be greased only a few times each season. **Do not forget the lower parallel arm grease zerk.**
16. NEVER mount coulters under planter drive shaft to allow coulters blades to contact shaft when an obstacle is struck. Coulters must be mounted so blade can always flex up and clear drive shaft.

**NOTE: Dry fertilizer must be free of chunks greater than 1/4" in size to prevent plugging. Yetter recommends using screened fertilizer or running fertilizer through screen when hoppers are filled. Clean hoppers thoroughly at the beginning of season to prevent plugging problems.**

**The rubber dry fertilizer tube may appear to be 'stretched' when the planter is in the transport position. This does not affect operation of the planter and should not be detrimental to the fertilizer tube.**

# OPERATION PRECAUTIONS

## STOP

Read this before using the Yetter product.

### - MACHINE OPERATION

**IMPORTANT:** failure to properly set the planter frame height and levelness can result in less than successful operation of the planter and the Yetter product and may result in damaged equipment. All operators should read and thoroughly understand the instructions given prior to using the Yetter product.

NOTE: **DO NOT** use this product if the planter is not adjusted properly!

Leveling the planter:

With the planter lowered to proper operating height (**Usually 20"-22"**).

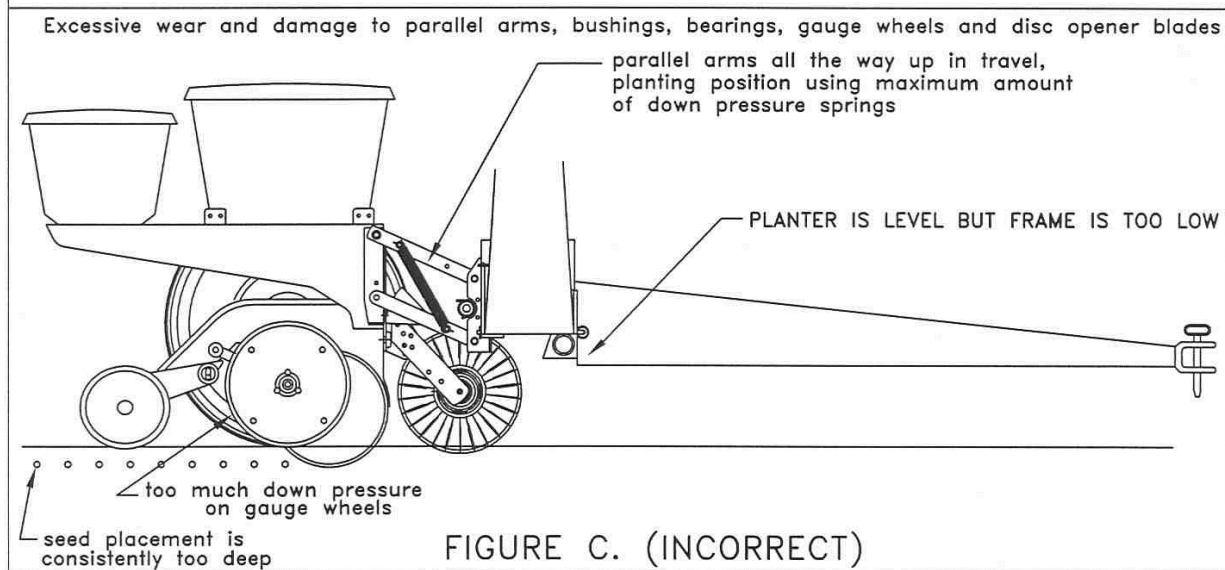
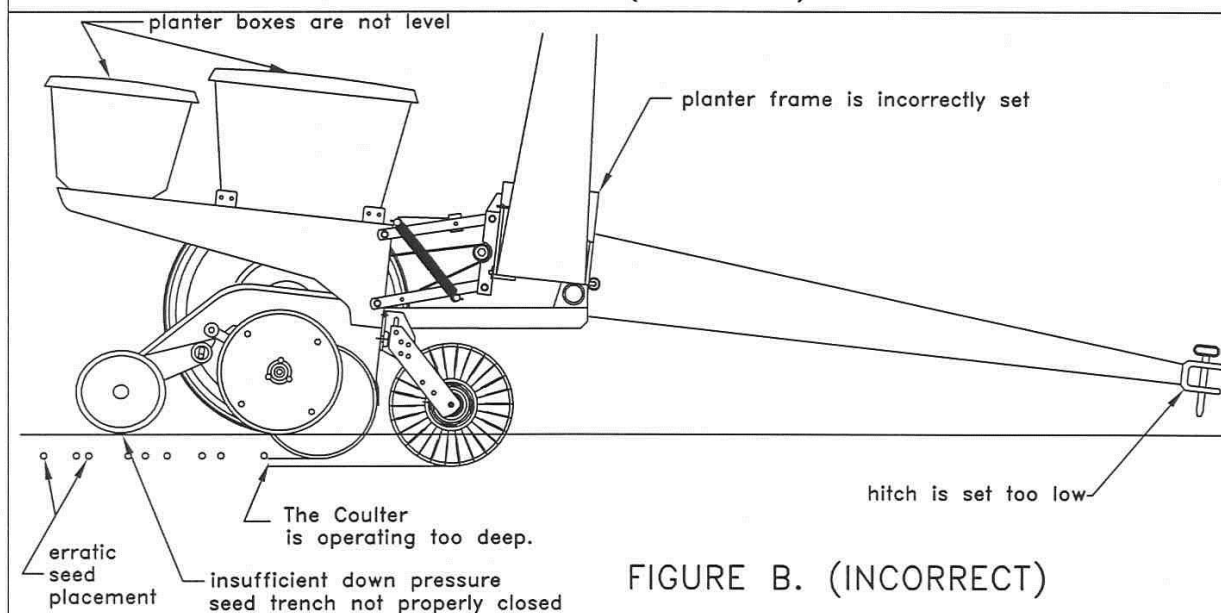
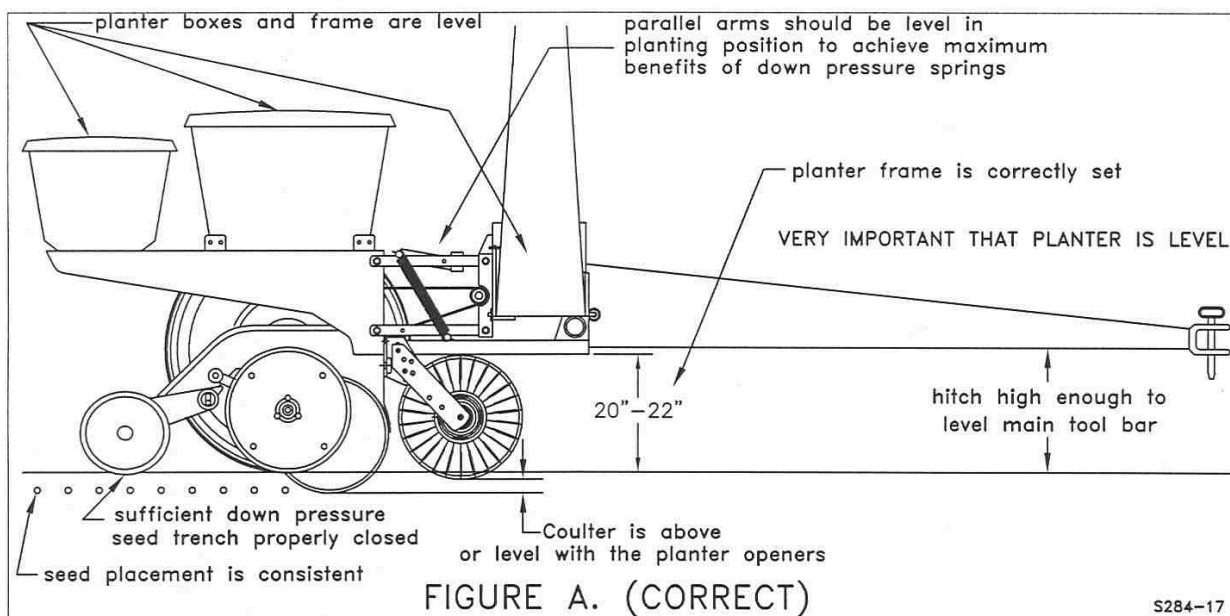
**Read the planter operator's manual for recommended setting.** Check to be sure the toolbar and row unit parallel arms are level fore and aft. **Re-check** when the planter is in the **field** and has been **fully loaded** with seed, fertilizer, granular chemicals, etc. Also, a field check with a bubble level on the frame should be made of the hitch height to ensure level operation front to back.

It is important for the planter to operate level laterally. Tire pressure must be maintained at pressures specified by the manufacturer.

Field and actual planting conditions change and will dictate planter frame heights. You must ensure that the row unit parallel arms are approximately parallel with the ground.

**IMPORTANT:** For proper operation of the planter attachments and row units, it is imperative that the planter toolbars and row unit parallel arms be level side-to-side and front-to-rear. The toolbar frame should operate at a 20"-22" height from the **planting surface**. Check the manufacturer's operator's manual for instructions on how to adjust the frame height and levelness.

# PLANTER ADJUSTMENT



## OPERATION

Yetter Model 2995 fertilizer coulters are designed to apply fertilizer 3" to 5" deep. See your fertilizer dealer for recommended depth and distance away from row for your particular fertilizer. A popular placement setting is 2" below and 2" away from the seed. High deposit rates require the fertilizer to be placed farther away from the row to avoid crop "burn".

Yetter Model 2995 fertilizer coulters can be set up to swivel or not swivel as required. By not allowing the coulters to swivel, the distance between seed and fertilizer varies less when planting on contour.

When mounting Model 2995 coulters on 3-point or 2-point hitch planters, the coulters should be set up to swivel, particularly if a 4-wheel drive tractor is used. This reduces the side load on the coulters during operation. It is preferable to allow the coulters to swivel.

**IMPORTANT: For proper operation, the planter frame must operate level and at the correct height, usually 20" – 22" while in operation.**

In hard no-till conditions the desired operating depth may not be possible. Tighten spring nut to maintain depth if spring is flexing rather than lower coulters to obtain maximum depth.

Planter weight may limit operating depth in hard conditions, particularly with mounted or semi-mounted planters. Be sure planter has enough weight to keep drive wheels on the ground during operation or plant populations can be drastically affected.

1. Set coulters blades to run vertical to ground. Operation depth and blade wear can be affected if coulters are mounted crooked. If coulters are set-up to not swivel be sure they run straight with the direction of travel.
2. After a few hours use, check all bolts and setscrews for tightness.
3. After a few days use, check coulters hubs for loose bearings. There should be no end play in the hub bearings to allow it to wobble. If necessary, remove hub cap and cotter pin, adjust slotted nut to remove wobble, re-insert cotter pin and replace hub cap.
4. **KNIFE ADJUSTMENT IS CRITICAL.** Adjust knife-blade clearance regularly, see page 7. An optional knife scraper, Part #2970-133, is available to reduce the frequency of adjustment on the fertilizer coulters knife. In addition this allows better operation in tough conditions such as freshly disked soils with abundant trash in the top four inches of loose soil. NOTE: A 'bump' will appear behind knife scraper, on blade where protected, this must be ground off periodically to maintain correct knife-blade clearance.
5. **BLADE WEAR** can affect operation in loose trash conditions. If knife adjustment does not stop plugging problems, it may be necessary to replace blade.

## MAINTENANCE

### LUBRICATION

Each coulters is equipped with three grease zerks. To ensure longevity and reliability of the coulters, the following lubrication schedule should be followed:

- |   |                         |             |
|---|-------------------------|-------------|
| 1 | Lower parallel arm zerk | daily       |
| 1 | Pivot casting zerk      | daily       |
| 1 | Hub bearings zerk       | each season |

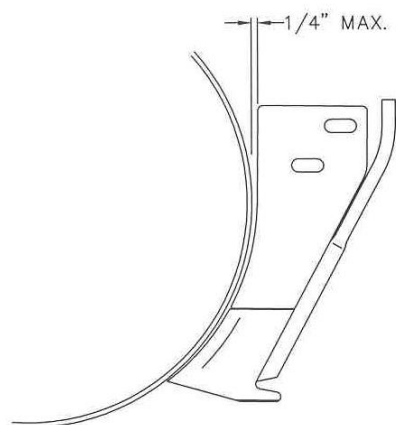
### KNIFE WEAR

The lower portion of the knife and tube are subject to wear during operation. The rate of wear will depend on a variety of factors and in abrasive soil conditions the wear will be more rapid.

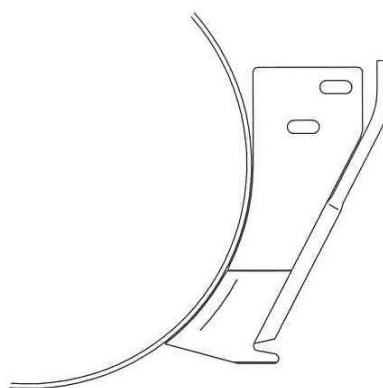
On the dry fertilizer knives with cast tip, if the tube is worn, it is possible to weld on a new tube (2975-360) to further extend the life of the dry fertilizer knife or weld on new wear plates (2975-387) on each side.



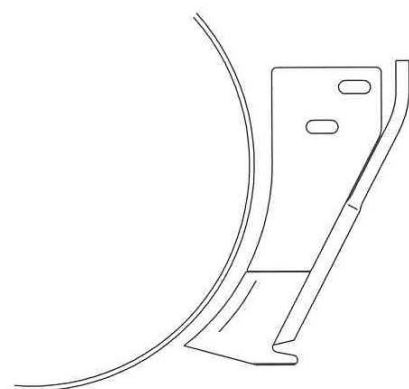
## KNIFE ADJUSTMENT



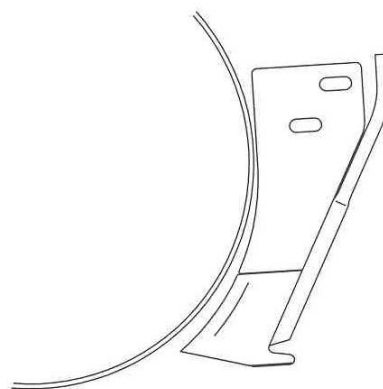
CORRECT



CORRECT



INCORRECT



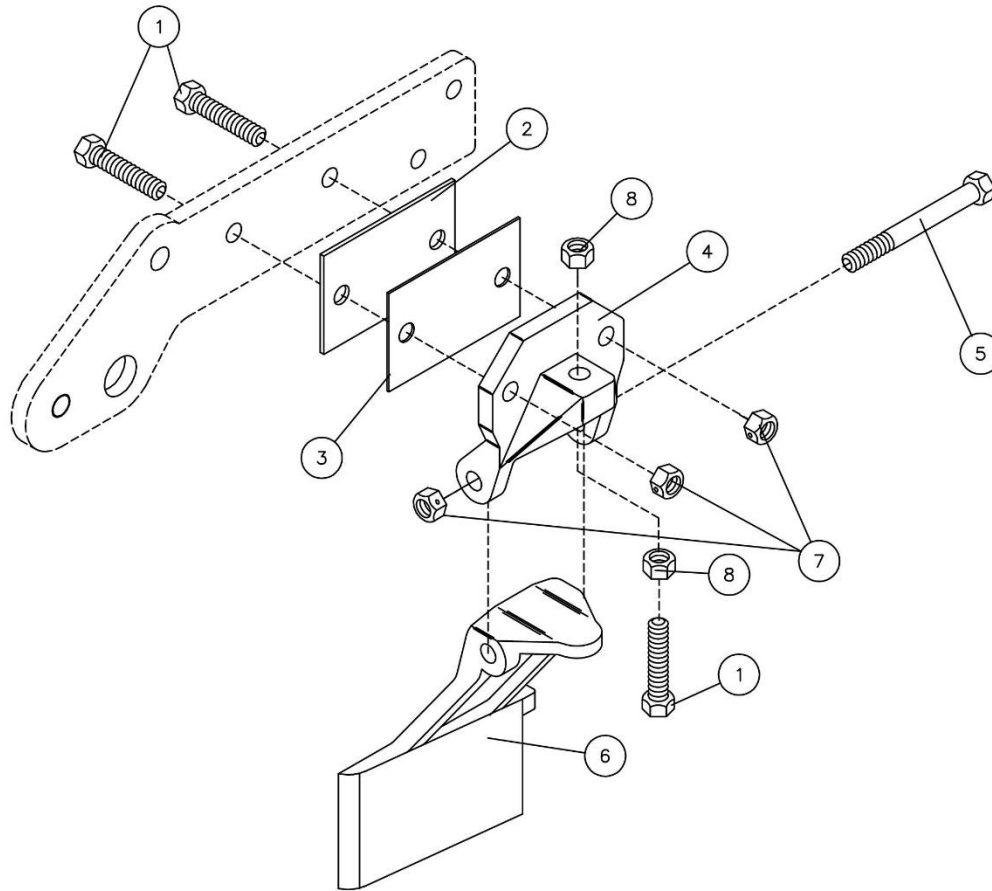
INCORRECT

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The adjustment of knife clearance to the blade is critical to trouble free operation of the fertilizer coupler, in certain conditions the coupler can “plug” in just a few feet if not correctly adjusted.

1. The disc blade **must** run concentric. Adjust by loosening four hub nuts and centering the blade.
2. Set knife to rub slightly on blade, especially at bottom of knife. See illustrations above. 2975-125 does work with 2995 coupler.

## PARTS IDENTIFICATION



I308

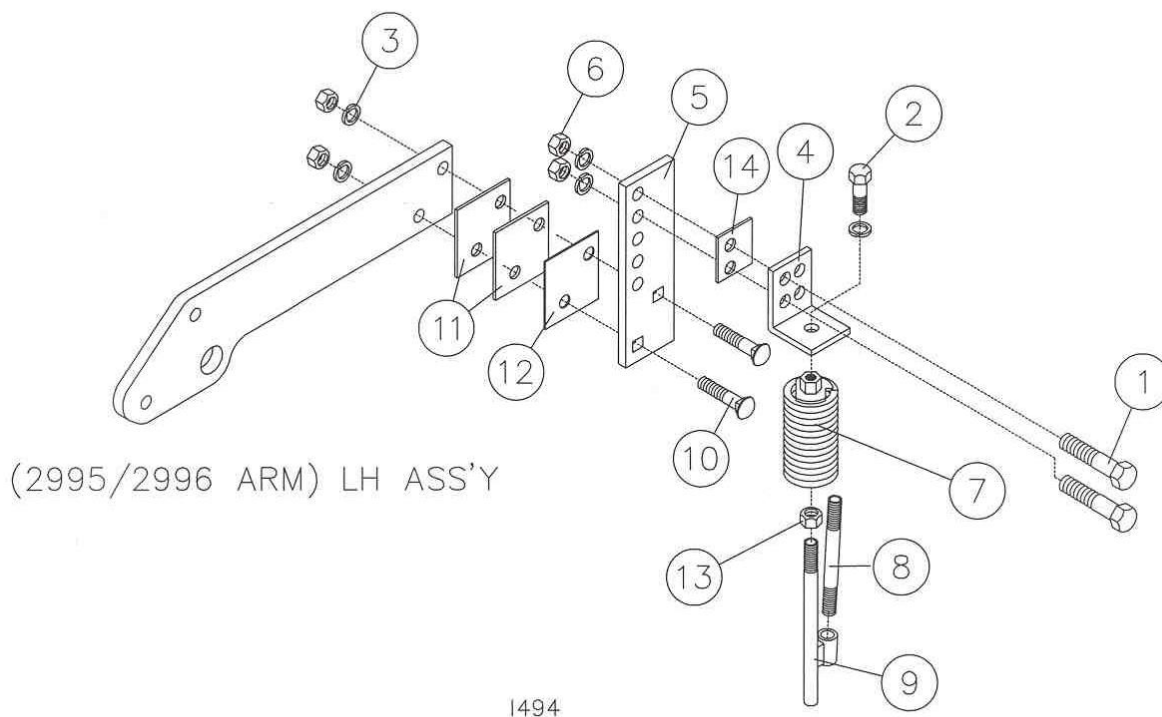
## SIDE KNIFE KITS

2995-122 Liquid Side Knife Assy., L.H.      2995-124 Dry Side Knife Assy., L.H.  
 2995-123 Liquid Side Knife Assy., R.H.      2995-125 Dry Side Knife Assy., R.H.  
 To be used with 2571-165 or 2571-169 blades only.

2996-114 LH 5-1/2" Liq Side Knife Assy.      2996-116 LH 5-1/2" Dry Side Knife Assy.  
 2996-115 RH 5-1/2" Liq Side Knife Assy.      2996-117 RH 5-1/2" Dry Side Knife Assy.  
 To be used with 2571-178 blade only.

| Key | Qty. | Part No. | Description                           |
|-----|------|----------|---------------------------------------|
| 1   | 3    | 2502-346 | 1/2-13 x 2 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    | 2995-314 | Side Knife Brkt., 2995                |
| 5   | 1    | 2502-362 | 1/2-13 x 5 HHCS Gr. 5 ZP              |
| 6   | 1    | 2995-121 | Liquid Side Knife Assy., R.H. (Shown) |
|     | 1    | 2995-120 | Liquid Side Knife Assy., L.H.         |
|     | 1    | 2995-200 | Dry Side Knife W.A., L.H.             |
|     | 1    | 2995-201 | Dry Side Knife W.A., R.H.             |
|     | 1    | 3000-123 | LH 5-1/2" Liq Side Knife S.A.         |
|     | 1    | 3000-124 | RH 5-1/2" Liq Side Knife S.A.         |
|     | 1    | 3000-234 | LH 5-1/2" Dry Side Knife W.A.         |
|     | 1    | 3000-235 | RH 5-1/2" Dry Side Knife W.A.         |
| 7   | 3    | 2520-357 | 1/2-13 Lock Hex Nut ZP                |
| 8   | 2    | 2520-352 | 1/2-13 Hex Nut ZP                     |

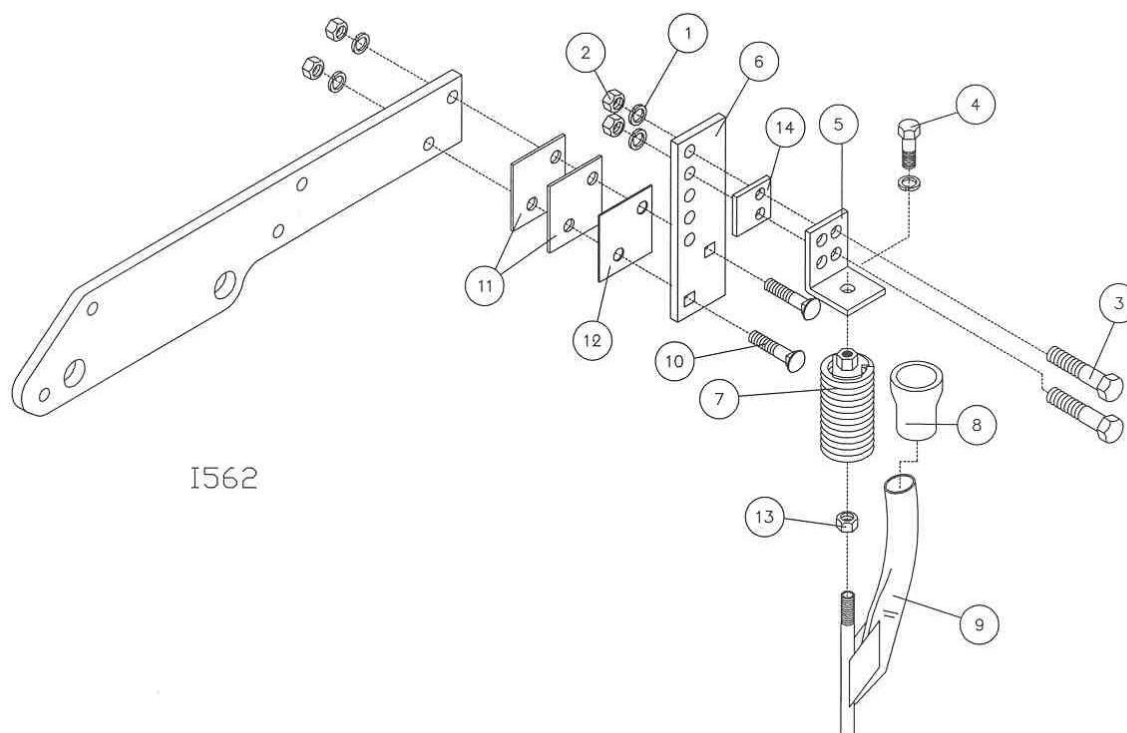
## PARTS IDENTIFICATION



### 2995-109 SPRING MOUNT LIQ. FERT. INJECTOR KIT

| Key | Qty. | Part No. | Description                        |
|-----|------|----------|------------------------------------|
| 1   | 2    | 2502-294 | 1/2-13 x 1-1/2 HHCS Gr. 5 ZP       |
| 2   | 1    | 2502-292 | 1/2-13 x 1 HHCS Gr. 5 ZP           |
| 3   | 5    | 2525-352 | 1/2 Med. Lockwasher ZP             |
| 4   | 1    | 2995-301 | Injector Mount Plate               |
| 5   | 1    | 2975-389 | Adjustment Plate, Injector         |
| 6   | 4    | 2520-352 | 1/2-13 Hex Nut ZP                  |
| 7   | 1    | 2995-131 | Spring Injector Assembly           |
| 8   | 1    | 2515-311 | 3" Nipple, 1/4 NPT Stainless Steel |
| 9   | 1    | 2995-212 | Injector Rod W.A., 1/2-13          |
| 10  | 2    | 2502-345 | 1/2-13 x 2 Car. Bolt Gr. 5 ZP      |
| 11  | 2    | 2970-319 | Knife Shim, 1/8", ZP               |
| 12  | 1    | 2970-320 | Knife Shim, 16 GA., ZP             |
| 13  | 1    | 2520-356 | 1/2-13 Jam Hex Nut ZP              |
| 14  | 1    | 2995-320 | Spacer, Injector                   |

## PARTS IDENTIFICATION



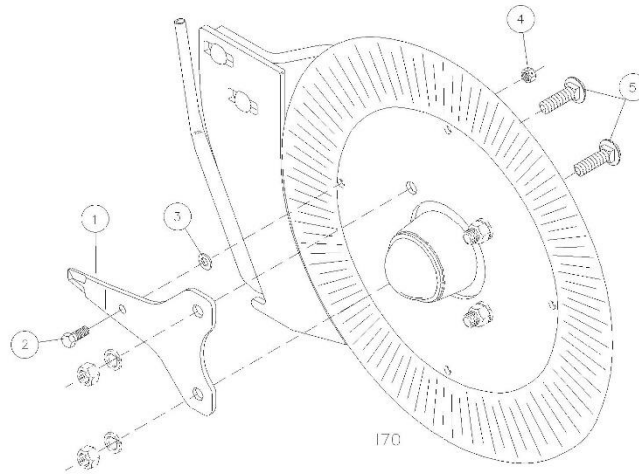
### 2995-130 SPRING MOUNT DRY INJECTOR KIT

| Key | Qty. | Part No. | Description                   |
|-----|------|----------|-------------------------------|
| 1   | 5    | 2525-352 | 1/2 Med. Lockwasher ZP        |
| 2   | 4    | 2520-352 | 1/2-13 Hex Nut ZP             |
| 3   | 2    | 2502-294 | 1/2-13 x 1 1/2 HHCS Gr. 5 ZP  |
| 4   | 1    | 2502-292 | 1/2-13 x 1 HHCS Gr. 5 ZP      |
| 5   | 1    | 2995-301 | Injector Mount Plate          |
| 6   | 1    | 2975-389 | Adjustment Plate, Injector    |
| 7   | 1    | 2995-131 | Injector Spring Assembly      |
| 8   | 1    | 2515-547 | Dry Fertilizer Adapter, PVC   |
| 9   | 1    | 2995-213 | Spring Tine Dry Injector W.A. |
| 10  | 2    | 2505-345 | 1/2-13 x 2 Car. Bolt Gr. 5 ZP |
| 11  | 2    | 2970-319 | Knife Shim, 1/8", ZP          |
| 12  | 1    | 2970-320 | Knife Shim, 16 Ga., ZP        |
| 13  | 1    | 2520-356 | 1/2-13 Jam Hex Nut            |
| 14  | 1    | 2995-320 | Spacer, Injector              |

## PARTS IDENTIFICATION

### 2970-133 17" Knife Scraper

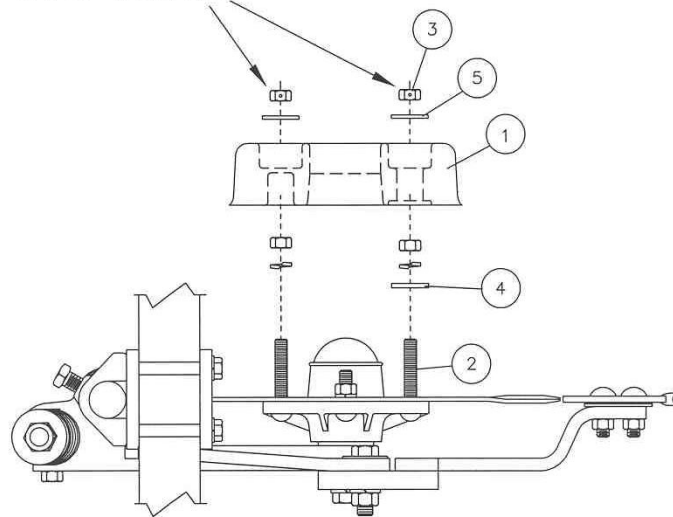
| Key | Qty. | Part No. | Description                 |
|-----|------|----------|-----------------------------|
| 1   | 1    | 2970-353 | Double Edge Knife Scraper   |
| 2   | 1    | 2502-199 | 5/16-18 x 3/4 HHCS Gr. 5 ZP |
| 3   | 1    | 2526-201 | 5/16 Std. Flatwasher ZP     |
| 4   | 1    | 2520-205 | 5/16-18 Lock Hex Nut ZP     |
| 5   | 2    | 2505-339 | ½ x 1-1/2 Carriage Bolt     |



### 2976-133 20" Knife Scraper

| Key | Qty. | Part No. | Description                 |
|-----|------|----------|-----------------------------|
| 1   | 1    | 2976-353 | Double Edge Knife Scraper   |
| 2   | 1    | 2502-199 | 5/16-18 x 3/4 HHCS Gr. 5 ZP |
| 3   | 1    | 2526-201 | 5/16 Std. Flatwasher ZP     |
| 4   | 1    | 2520-205 | 5/16-18 Lock Hex Nut ZP     |
| 5   | 2    | 2505-339 | ½ x 1-1/2 Carriage Bolt     |

DO NOT OVER TIGHTEN.



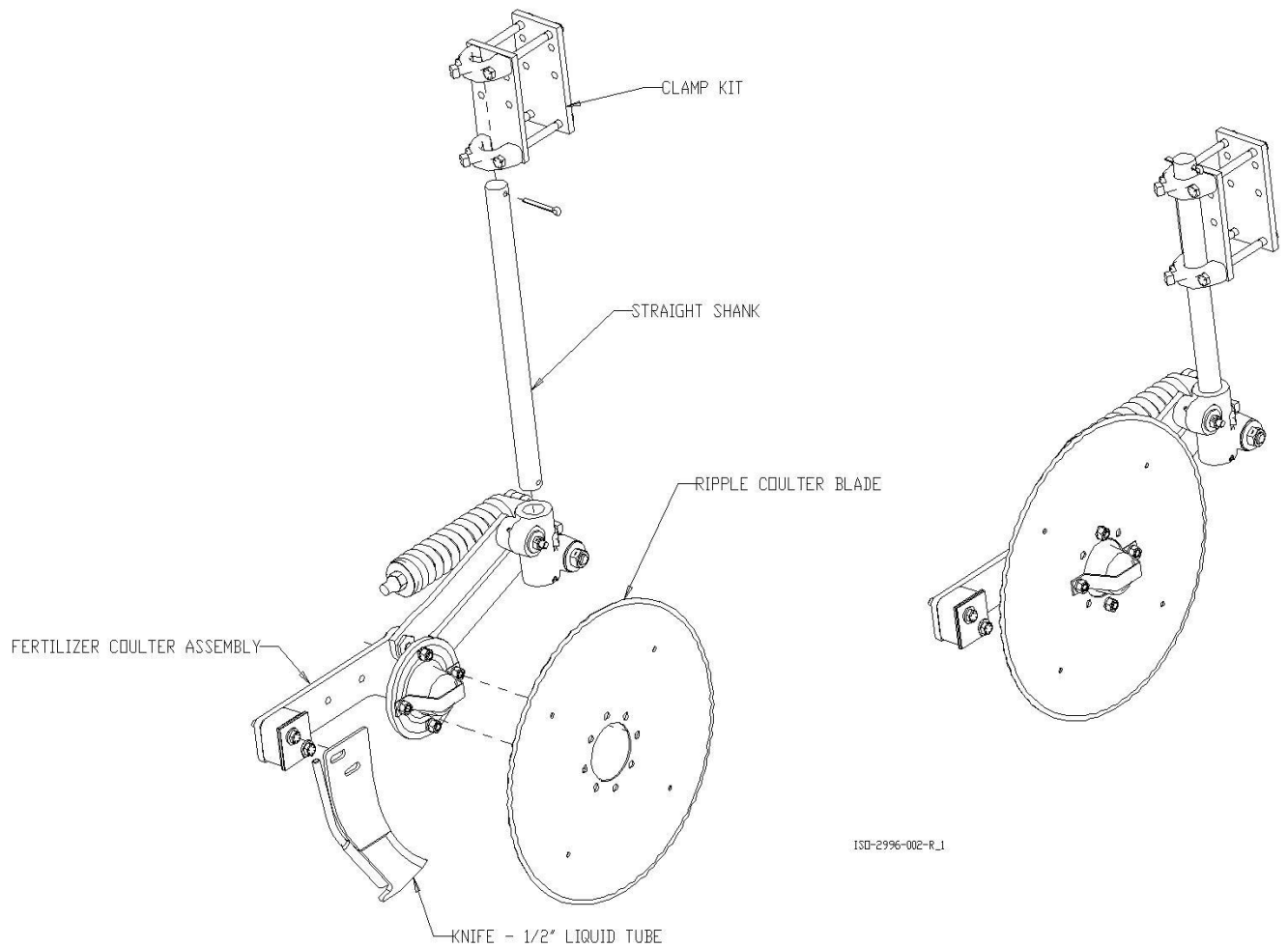
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### 2975-120 Gauge Wheel Kit

| Key | Qty. | Part No. | Description                           |
|-----|------|----------|---------------------------------------|
| 1   | 1    | 2515-560 | Gauge Wheel, 9" x 2-1/2"              |
| 1   | 1    | 2515-561 | Gauge Wheel, 11" x 2-1/2"             |
| 2   | 2    | 2505-330 | 1/2-13 x 3 Carriage Blt Gr. 5 ZP      |
| 3   | 2    | 2520-357 | 1/2-13 Lock Hex Nut ZP                |
| 4   | 1    | 2527-330 | 1/2 ID x 1 1/2 OD x 7 Ga. Ma. Bu. ZP  |
| 5   | 2    | 2527-340 | 1/2 ID x 1-1/2 OD x 10 Ga. Ma. Bu. ZP |

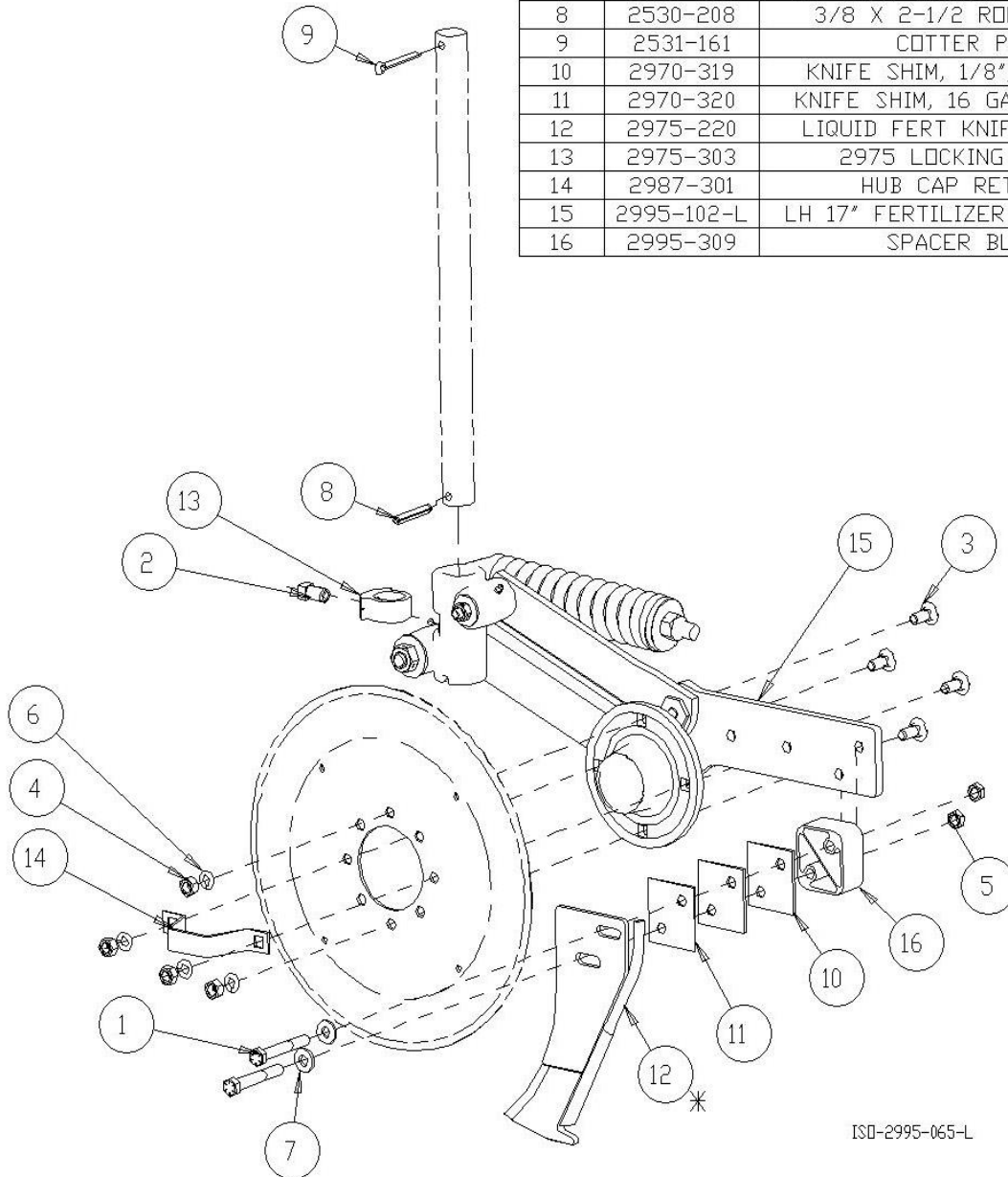
## MAJOR COMPONENTS

### Fertilizer Coulter Assembly



# **PARTS IDENTIFICATION** **2995 Series 17" Fertilizer Coulter Assembly** **2995-065-L**

| ITEM | PART NO.   | DESCRIPTION                   | QTY |
|------|------------|-------------------------------|-----|
| 1    | 2502-358   | 1/2-13 X 3 1/2 HHCS G8 ZP     | 2   |
| 2    | 2503-379   | 5/8-11 X 1 SQ. HCPSS GR5ZP    | 1   |
| 3    | 2505-337   | 1/2-13 X 1 1/4 CARBLT G5ZP    | 4   |
| 4    | 2520-352   | 1/2-13 HEX NUT ZP             | 4   |
| 5    | 2520-362   | 1/2-13 HEX LOK NUT, GR C, ZP  | 2   |
| 6    | 2525-352   | 1/2 MED LOCKWASHER ZP.        | 4   |
| 7    | 2526-355   | 1/2 FLAT WASHER HARD'ND ZP    | 2   |
| 8    | 2530-208   | 3/8 X 2-1/2 ROLL PIN ZP       | 1   |
| 9    | 2531-161   | COTTER PINS                   | 1   |
| 10   | 2970-319   | KNIFE SHIM, 1/8", ALUMINUM    | 2   |
| 11   | 2970-320   | KNIFE SHIM, 16 GA., ALUMINUM  | 1   |
| 12   | 2975-220   | LIQUID FERT KNIFE .5" TUBE    | 1   |
| 13   | 2975-303   | 2975 LOCKING COLLAR           | 1   |
| 14   | 2987-301   | HUB CAP RETAINER              | 1   |
| 15   | 2995-102-L | LH 17" FERTILIZER CLTR. ASS'Y | 1   |
| 16   | 2995-309   | SPACER BLOCK                  | 1   |

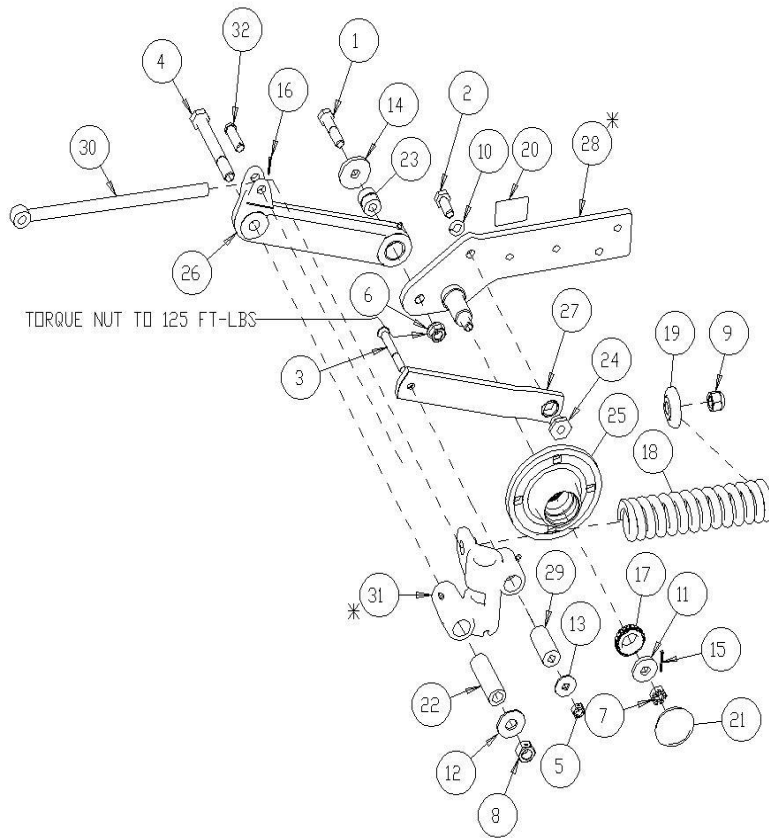


ISO-2995-065-L

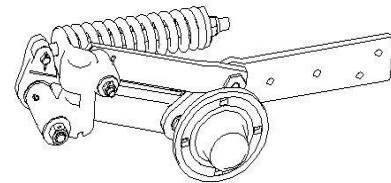
**\*ALTERNATE COMPONENTS (not shown):**

| ITEM | PART NO. | DESCRIPTION                       | QTY. |
|------|----------|-----------------------------------|------|
| 12   | 2975-232 | DRY FERTILIZER KNIFE – 1.50" TUBE | 1    |
| -    | 2515-547 | ADAPTER 1.500ID-2.188 OD          | 1    |

# **PARTS IDENTIFICATION** **2995 Series 17" Fertilizer Coulter Assembly** **2995-102-L**



| ITEM | PART NO. | DESCRIPTION                         | QTY. |
|------|----------|-------------------------------------|------|
| 1    | 2502-323 | 5/8-11 X 2-3/4 HHCS GR 5 ZP         | 1    |
| 2    | 2502-339 | 5/8-18 X 1 1/2 HHCS GR5 ZP          | 1    |
| 3    | 2502-360 | 1/2-13 X 4 HSFHCS                   | 1    |
| 4    | 2502-510 | 3/4-10 X 6 HHCS GR.5 ZP             | 1    |
| 5    | 2520-357 | 1/2-13 LOCK HEX NUT, GR A, ZP       | 1    |
| 6    | 2520-464 | 5/8-11 WHIZLOCK HEX NUT, GR 2, ZP   | 1    |
| 7    | 2520-469 | 5/8-18 SLOTTED HEX NUT,PLAIN, GR2   | 1    |
| 8    | 2520-515 | 3/4-10 LOCK HEX NUT, GR A, ZP       | 1    |
| 9    | 2520-516 | 3/4-10 NYLON INSERT LCKNT, GR 2, ZP | 1    |
| 10   | 2525-451 | 5/8 MED. LOCKWASHER ZP.             | 1    |
| 11   | 2526-449 | 5/8 FLATWASHER 1/4 +- .010 THK, ZP  | 1    |
| 12   | 2526-501 | 3/4 STANDARD FLATWASHER ZP          | 1    |
| 13   | 2527-340 | 1/2IDX1 1/2OD X 10 GA MA BU         | 1    |
| 14   | 2527-529 | 21/32ID X 2 1/4OD X 1/4\"MABU       | 1    |
| 15   | 2531-102 | 1/8 X 1-1/4 COTTER PIN, PLAIN       | 1    |
| 16   | 2531-107 | 1/8 X 1 COTTER PIN ZP               | 1    |
| 17   | 2550-027 | CONE, LM67048, KOYO                 | 1    |
| 18   | 2550-795 | SPRING, .562\" WIRE X 11\" LONG     | 1    |
| 19   | 2975-302 | SPRING BUSHING CASTING              | 1    |
| 20   | 2565-682 | YETTER/PAT. PEND./ADJ. DECAL        | 1    |
| 21   | 2570-375 | HUB CAP, WILTON #909902             | 1    |
| 22   | 2570-704 | PIVOT SLEEVE                        | 1    |
| 23   | 2570-761 | LOWER ARM PIVOT                     | 1    |
| 24   | 2570-762 | UPPER ARM PIVOT/WASHER ZP           | 1    |
| 25   | 2900-102 | HUB SUB-ASSEMBLY                    | 1    |
| 26   | 2995-110 | LOWER COULTER ARM ASSEMBLY          | 1    |
| 27   | 2995-111 | UPPER COULTER ARM ASSEMBLY          | 1    |
| 28   | 2995-206 | LH KNIFE ARM PLATE/SPINDLE WA       | 1    |
| 29   | 2995-303 | PIVOT SLEEVE, 2 19/32\"             | 1    |
| 30   | 2995-304 | SPRING ROD, 13 1/2\"                | 1    |
| 31   | 2995-306 | COULTER PIVOT, LH                   | 1    |
| 32   | 2995-308 | SPRING ROD PIN                      | 1    |



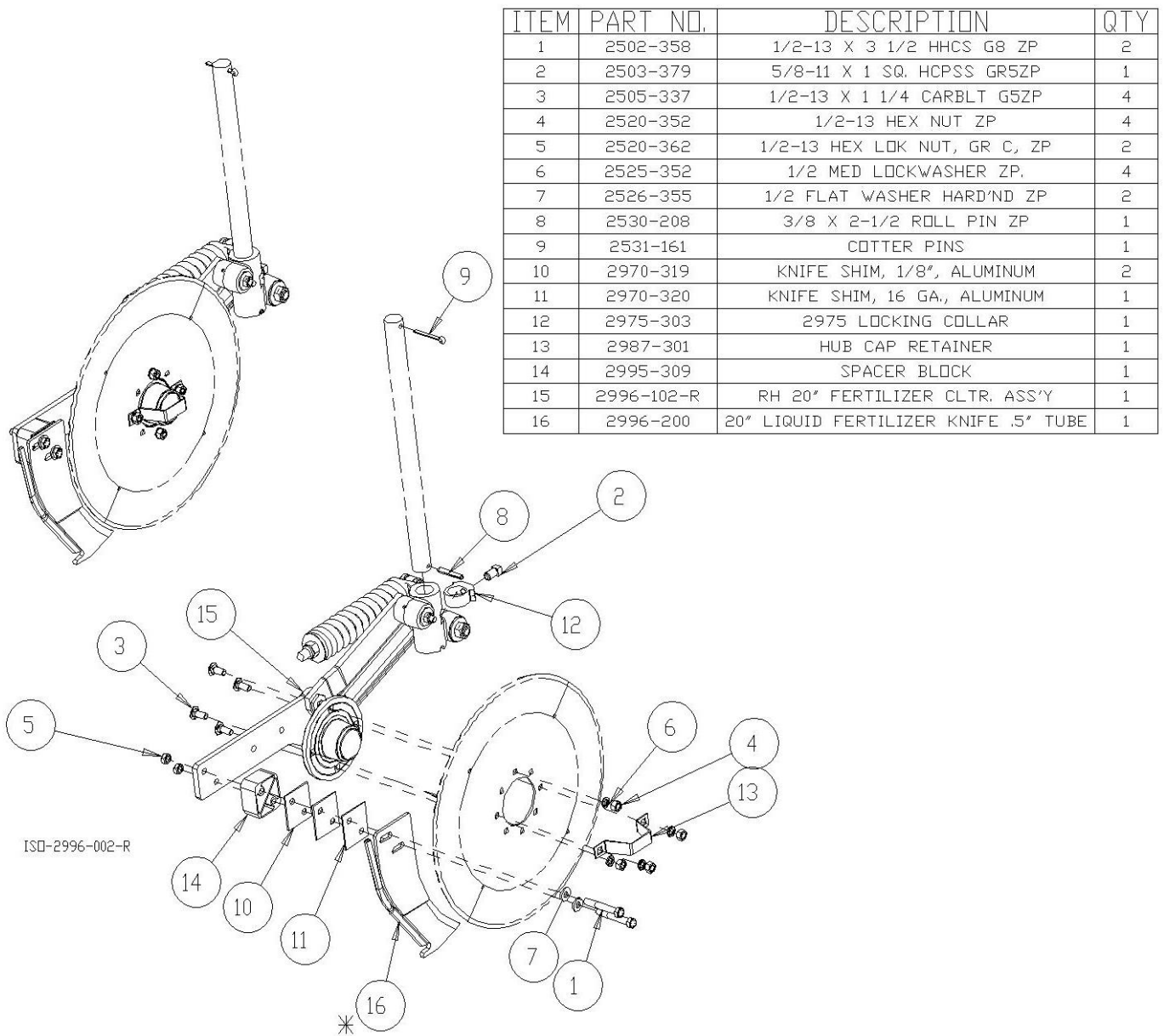
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**\*ALTERNATE COMPONENTS (not shown):**

| ITEM | PART NO. | DESCRIPTION                                    | QTY. |
|------|----------|------------------------------------------------|------|
| 26   | 2995-110 | LOWER COULTER ARM ASSEMBLY                     | 1    |
| -    | 2528-362 | BUSHING 1.25\"ID X 1.50\"OD X 1.25 WIDE        | 1    |
| -    | 2533-110 | GREASE FITTING 1/4-28 SELF TAP                 | 1    |
| 27   | 2995-111 | UPPER COULTER ARM ASSEMBLY                     | 1    |
| -    | 2528-360 | BRONZE BUSHING 1\" ID X 1.25\" OD X .50\" WIDE | 1    |
| 28   | 2995-207 | RH KNIFE ARM                                   | 1    |
| 31   | 2995-307 | COULTER PIVOT RH                               | 1    |



# **PARTS IDENTIFICATION** **2996 Series 20" Fertilizer Coulter Assembly** **2996-002-R**



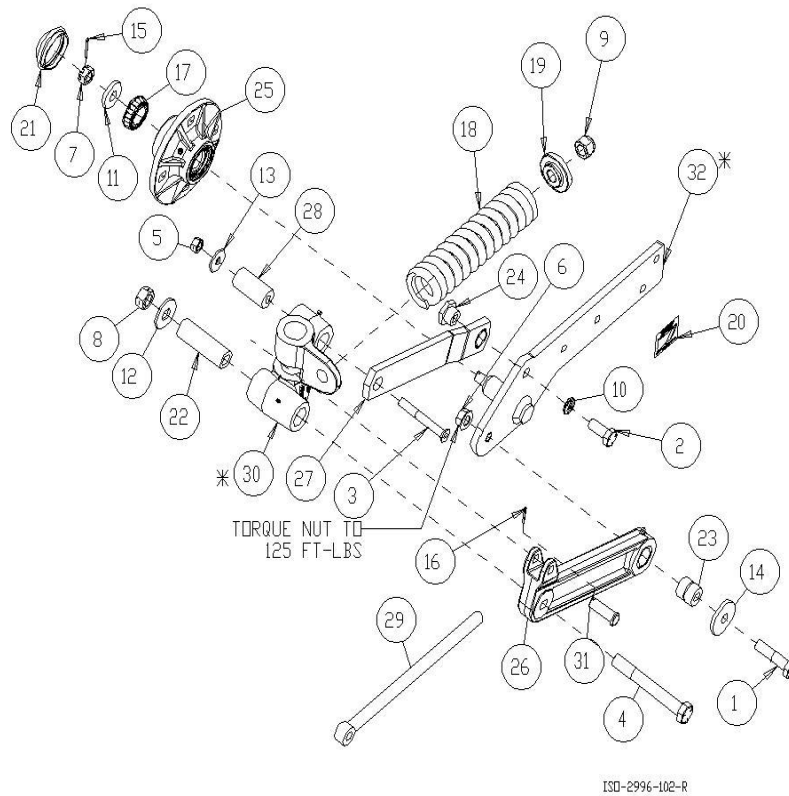
**\*ALTERNATE COMPONENTS (not shown):**

| ITEM | PART NO. | DESCRIPTION             | QTY. |
|------|----------|-------------------------|------|
| 16   | 2996-201 | DRY KNIFE 1.50" TUBE    | 1    |
| -    | 2515-547 | ADAPTER 1.500" – 2.188" | 1    |
| 16   | 2996-210 | LIQUID KNIFE .50" TUBE  | 1    |

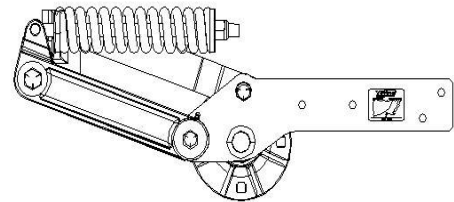
# PARTS IDENTIFICATION

## 2996 Series 20" Fertilizer Coulter Assembly

### 2996-102-R



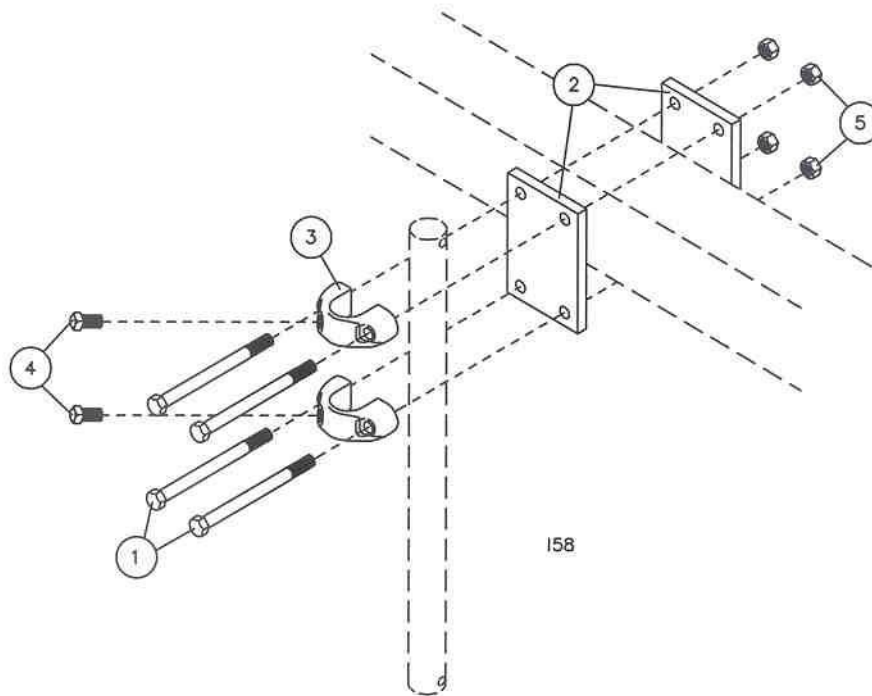
| ITEM | PART NO. | DESCRIPTION                         | QTY |
|------|----------|-------------------------------------|-----|
| 1    | 2502-323 | 5/8-11 X 2-3/4 HHCS GR 5 ZP         | 1   |
| 2    | 2502-339 | 5/8-18 X 1 1/2 HHCS GR5 ZP          | 1   |
| 3    | 2502-360 | 1/2-13 X 4 HSFHCS                   | 1   |
| 4    | 2502-510 | 3/4-10 X 6 HHCS GR.5 ZP             | 1   |
| 5    | 2520-357 | 1/2-13 LOCK HEX NUT, GR A, ZP       | 1   |
| 6    | 2520-464 | 5/8-11 WHIZLOCK HEX NUT, GR 2, ZP   | 1   |
| 7    | 2520-469 | 5/8-18 SLOTTED HEX NUT BLK, GR 2    | 1   |
| 8    | 2520-515 | 3/4-10 LOCK HEX NUT, GR A, ZP       | 1   |
| 9    | 2520-516 | 3/4-10 NYLON INSERT LCKNT, GR 2, ZP | 1   |
| 10   | 2525-451 | 5/8 MED. LOCKWASHER ZP.             | 1   |
| 11   | 2526-449 | 5/8 FLATWASHER 1/4 +-010 THK, ZP    | 1   |
| 12   | 2526-501 | 3/4 STANDARD FLATWASHER ZP          | 1   |
| 13   | 2527-340 | 1/2IDX1 1/2OD X 10 GA MA BU         | 1   |
| 14   | 2527-529 | 21/32ID X 2 1/4OD X 1/4MABU         | 1   |
| 15   | 2531-102 | 1/8 X 1-1/4 COTTER PIN, PLAIN       | 1   |
| 16   | 2531-107 | 1/8 X 1 COTTER PIN ZP               | 1   |
| 17   | 2550-027 | CONE, LM67048, KOYO                 | 1   |
| 18   | 2550-795 | SPRING, .562" WIRE X 11" LONG       | 1   |
| 19   | 2975-302 | SPRING BUSHING CASTING              | 1   |
| 20   | 2565-682 | YETTER/PAT. PEND./ADJ. DECAL        | 1   |
| 21   | 2570-375 | HUB CAP, WILTON #909902             | 1   |
| 22   | 2570-704 | PIVOT SLEEVE                        | 1   |
| 23   | 2570-761 | LOWER ARM PIVOT                     | 1   |
| 24   | 2570-762 | UPPER ARM PIVOT/WASHER ZP           | 1   |
| 25   | 2900-102 | HUB SUB-ASSEMBLY                    | 1   |
| 26   | 2995-110 | LOWER COULTER ARM ASSEMBLY          | 1   |
| 27   | 2995-111 | UPPER COULTER ARM ASSEMBLY          | 1   |
| 28   | 2995-303 | PIVOT SLEEVE, 2 19/32"              | 1   |
| 29   | 2995-304 | SPRING ROD, 13 1/2"                 | 1   |
| 30   | 2995-307 | COULTER PIVOT, RH                   | 1   |
| 31   | 2995-308 | SPRING ROD PIN                      | 1   |
| 32   | 2996-205 | RH 2996 KNIFE ARM/SPINDLE W.A.      | 1   |



#### \*ALTERNATE COMPONENTS (not shown):

| ITEM | PART NO. | DESCRIPTION                                    | QTY. |
|------|----------|------------------------------------------------|------|
| 26   | 2995-110 | LOWER COULTER ARM ASSEMBLY                     | 1    |
| -    | 2528-362 | BUSHING 1.25\"ID X 1.50\"OD X 1.25 WIDE        | 1    |
| -    | 2533-110 | GREASE FITTING 1/4-28 SELF TAP                 | 1    |
| 27   | 2995-111 | UPPER COULTER ARM ASSEMBLY                     | 1    |
| -    | 2528-360 | BRONZE BUSHING 1\" ID X 1.25\" OD X .50\" WIDE | 1    |
| 30   | 2996-306 | COULTER PIVOT – LH                             | 1    |
| 32   | 2996-204 | LH KNIFE ARM                                   | 1    |

## PARTS IDENTIFICATION



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### 2990-154 Clamp Kit, 2-1/2" Sq. Bar

| Key | Qty. | Part No. | Description                   |
|-----|------|----------|-------------------------------|
| 1   | 4    | 2502-368 | 1/2-13 x 5-1/2" HHCS GR. 5 ZP |
| 2   | 2    | 2990-313 | Clamp Plate, 2-1/2 Square Bar |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled        |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP        |

### 2990-155 Clamp Kit, 2 x 6 Bar

| Key | Qty. | Part No. | Description                   |
|-----|------|----------|-------------------------------|
| 1   | 4    | 2502-362 | 1/2-13 X 5" HHCS GR. 5 ZP     |
| 2   | 2    | 2990-363 | Clamp Plate, 2 x 6 Bar        |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled        |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP        |

### 2990-156 Clamp Kit, 4 x 4 Bar

| Key | Qty. | Part No. | Description                          |
|-----|------|----------|--------------------------------------|
| 1   | 4    | 2502-371 | 1/2-13 x 7" HHCS GR. 5 ZP            |
| 2   | 2    | 2990-314 | Clamp Plate, 4" Sq. & 3" Diamond Bar |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled               |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP        |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP               |

### 2990-157 Clamp Kit, 5 x 7 Bar

| Key | Qty. | Part No. | Description                     |
|-----|------|----------|---------------------------------|
| 1   | 4    | 2502-369 | 1/2-13 X 8" HHCS GR. 5 ZP       |
| 2   | 2    | 2990-315 | Clamp Plate, 5 x 7 or 7 x 7 Bar |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled          |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP   |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP          |

### 2990-158 Clamp Kit, 7 x 7 Bar

| Key | Qty. | Part No. | Description                     |
|-----|------|----------|---------------------------------|
| 1   | 4    | 2502-376 | 1/2-13 x 10" HHCS GR. 5 ZP      |
| 2   | 2    | 2990-315 | Clamp Plate, 5 x 7 or 7 x 7 Bar |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled          |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP   |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP          |

### 2990-161 Clamp Kit, 3 x 7 Bar

| Key | Qty. | Part No. | Description                     |
|-----|------|----------|---------------------------------|
| 1   | 4    | 2502-373 | 1/2-13 X 6" HHCS GR. 5 ZP       |
| 2   | 2    | 2990-315 | Clamp Plate, 5 x 7 or 7 x 7 Bar |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled          |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP   |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP"         |

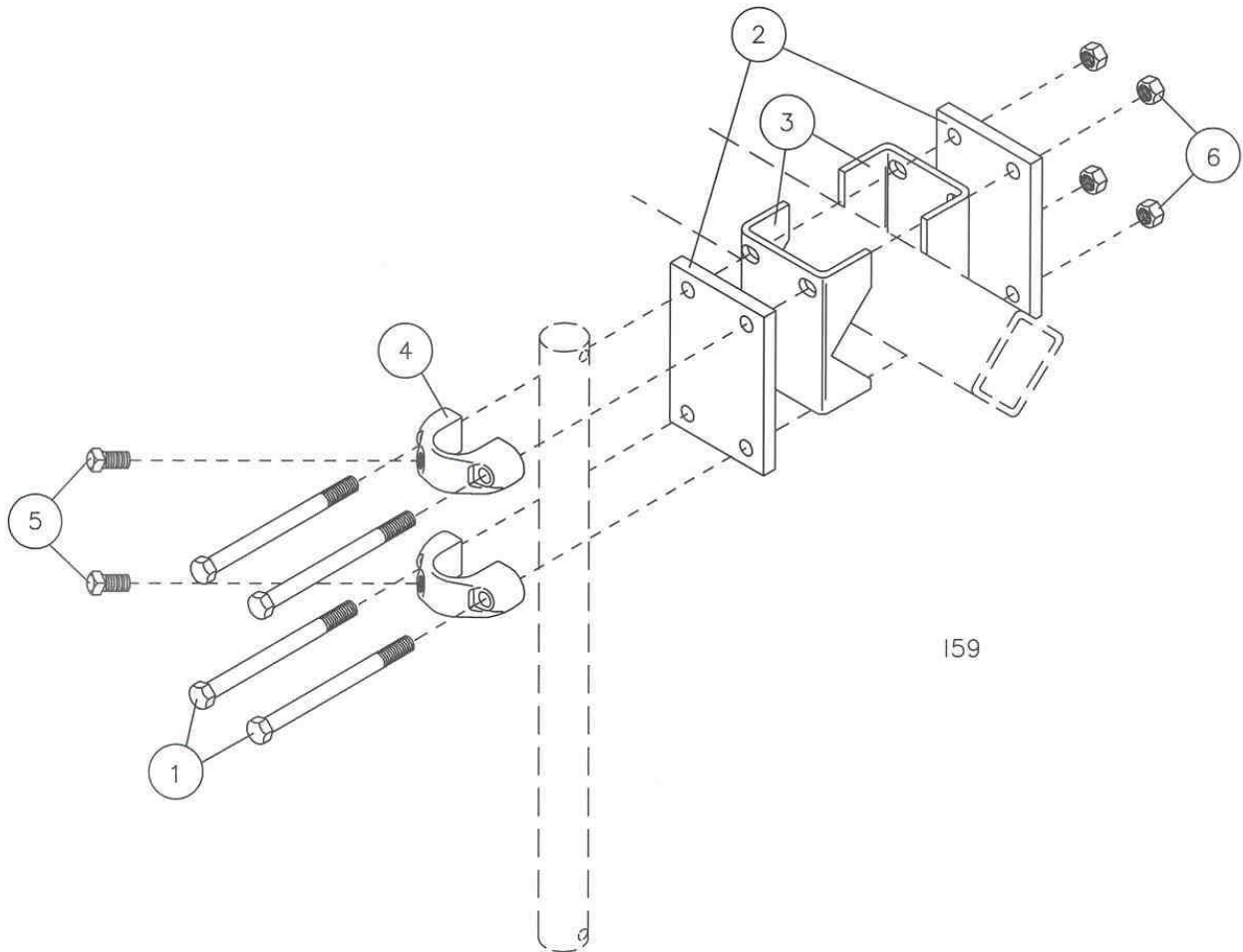
### 2990-163 Clamp Kit, 3 x 3 Bar

| Key | Qty. | Part No. | Description                   |
|-----|------|----------|-------------------------------|
| 1   | 4    | 2502-373 | 1/2-13 x 6" HHCS GR. 5 ZP     |
| 2   | 2    | 2990-339 | Clamp Plate, 3" Square Bar    |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled        |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP        |

### 2990-171 Clamp Kit, 3 x 4 Bar

| Key | Qty. | Part No. | Description                      |
|-----|------|----------|----------------------------------|
| 1   | 4    | 2502-373 | 1/2-13 X 6" HHCS GR. 5 ZP        |
| 2   | 2    | 2990-314 | Clamp Plate, 4" Sq. & 3" Dmd Bar |
| 3   | 2    | 2990-360 | Clamp Casting, Drilled           |
| 4   | 2    | 2503-379 | 5/8-11 x 1 Sq. HCPSS Gr. 5 ZP    |
| 5   | 4    | 2520-357 | 1/2-13 Hex Lock Nut ZP           |

# PARTS IDENTIFICATION



## 2990-159 Clamp Kit, 3" Diamond Bar

| Key | Qty. | Part No. | Description                       |
|-----|------|----------|-----------------------------------|
| 1   | 4    | 2502-369 | 1/2-13 x 8" HHCS Gr. 5 ZP         |
| 2   | 2    | 2990-314 | Clamp Plate, 4" Sq. or 3" Diamond |
| 3   | 2    | 2970-326 | Adaptor, 3" Sq. Diamond Bar       |
| 4   | 2    | 2990-360 | Clamp Casting, Drilled            |
| 5   | 2    | 2503-379 | 5/8-11 x 1" Sq. HCPSS Gr. 5 ZP    |
| 6   | 4    | 2520-357 | 1/2-13 Lock Hex Nut ZP            |

## 2990-160 Clamp Kit, 3-1/2" Diamond Bar

| Key | Qty. | Part No. | Description                     |
|-----|------|----------|---------------------------------|
| 1   | 4    | 2502-374 | 1/2-13 x 9" HHCS Gr. 5 ZP       |
| 2   | 2    | 2990-316 | Clamp Plate, 3-1/2" Diamond Bar |
| 3   | 2    | 2970-327 | Adaptor, 3-1/2" Sq. Diamond Bar |
| 4   | 2    | 2990-360 | Clamp Casting, Drilled          |
| 5   | 2    | 2503-379 | 5/8-11 x 1" Sq. HCPSS Gr. 5 ZP  |
| 6   | 4    | 2520-357 | 1/2-13 Lock Hex Nut ZP          |

## TROUBLESHOOTING

### *Problem*

Setting coulter

### *Cause*

Planter not set correctly

### *Solution*

Ensure that in operation the planter frame is at correct height (20"-22") and level the toolbar. See opposite page.

Trash plugging

Excessive knife-blade clearance

Check and adjust knife-blade clearance. See page 7.

Knife not correctly aligned behind blade

Use shims to align knife behind blade

Blade not penetrating

Insufficient coulter spring pressure

Tighten coulter spring locknut down 1" further

Coulter incorrectly installed

Adjust height of coulter by sliding shank down

Spring not deflecting

Excessive spring pressure

Back off coulter spring locknut to 1/8" of thread exposed

Fertilizer too deep

Spring not deflecting

Back off coulter spring locknut to 1/8" of thread exposed

Coulter incorrectly installed

Adjust height of coulter by sliding shank up

Lack of depth control

Install gauge wheel kit, part no. 2975-120

Planter frame too low

Raise planter frame to correct height

Fertilizer too shallow

Blade not penetrating

Tighten coulter spring locknut down 1" further

Coulter incorrectly installed

Adjust height of coulter by sliding shank down

Incorrect depth control

Install gauge wheel kit, part no. 2975-120

Fertilizer will not flow

Plugged fertilizer tubes

Check for plugged fertilizer tube openings on knife

Check for plugged fertilizer delivery tubes on planter

Blade not rotating properly

Loose soil

Coulter works best in firmer soil conditions

## PLANTER HEIGHT ADJUSTMENT

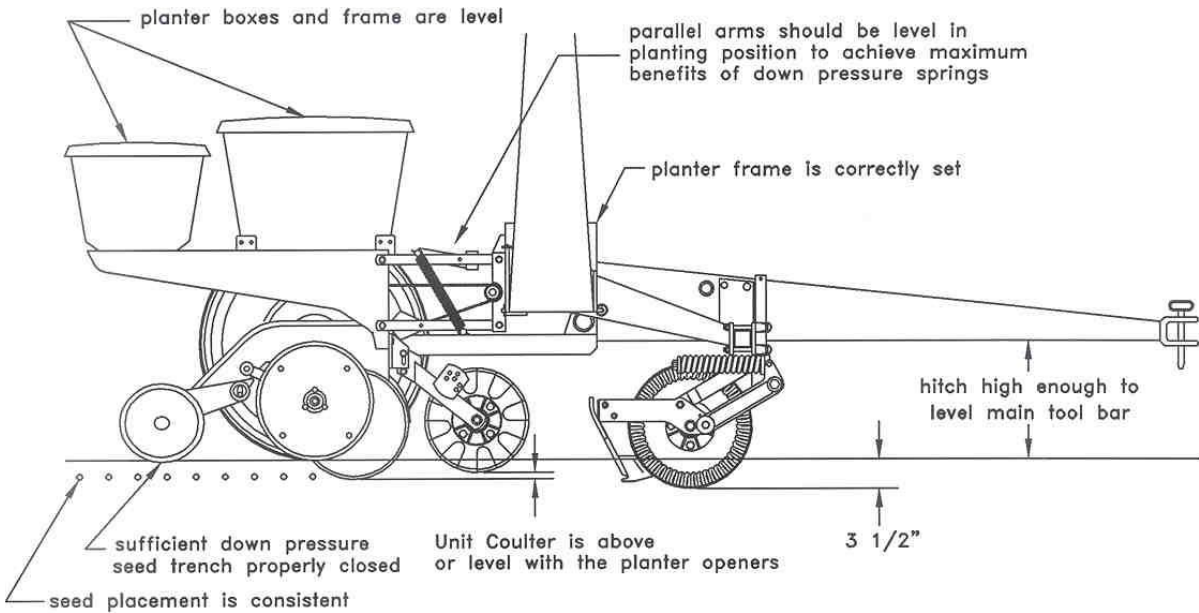


FIGURE A. (CORRECT)

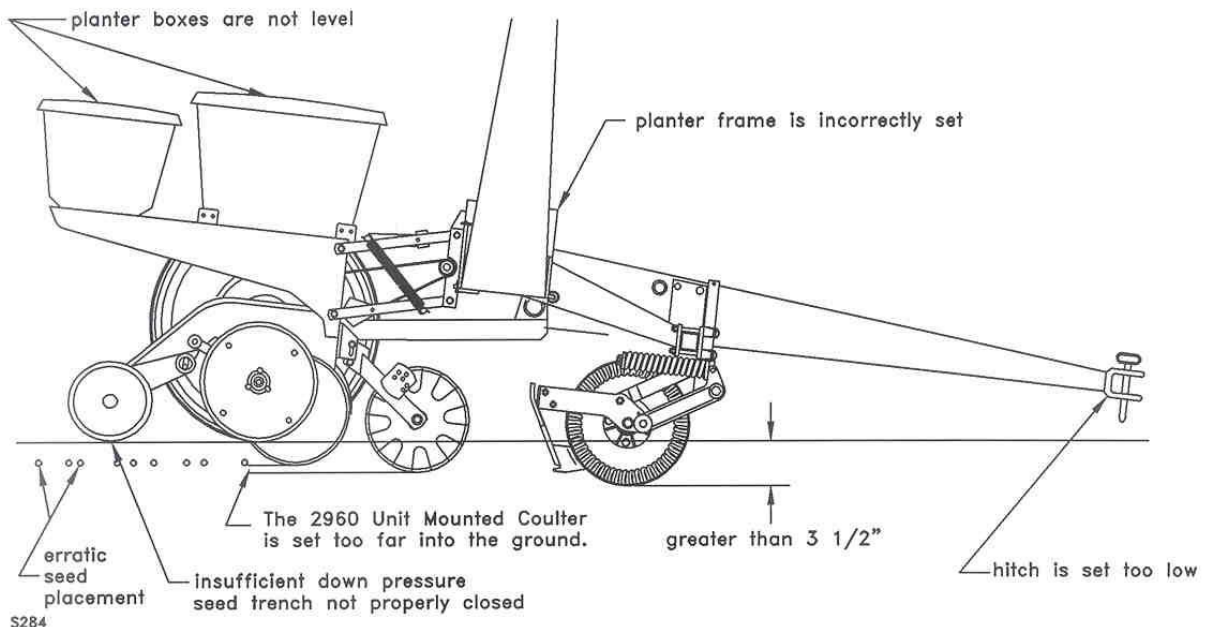


FIGURE B. (INCORRECT)

**Figure A.** – The planter hitch and frame are both 20" off the ground. To ensure this, visually check to see that the planter boxes are level and that the planter unit parallel arms are also parallel with the ground. **When using planter attachments located in front of the planter unit, this setting is very important.**

**Figure B.** – The planter hitch is set too low while the planter frame remains at 20" off the ground! Notice from the illustration that the fertilizer coulter is running below desired depth.

**NOTE – Both illustrations are strictly for reference only.** They are intended to show that proper adjustment of the hitch height is critical. Consult your planter operator's manual for the proper height adjustment of the hitch.

NOTES:

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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.

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