

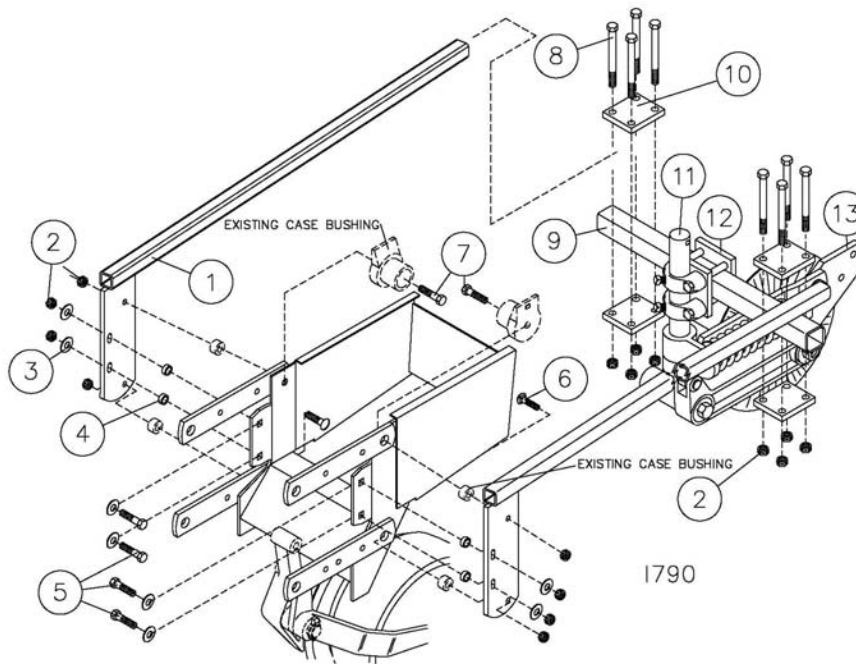


2995-009 & 2995-010

CASE T.O.W. KIT R.H. & L.H.

ASSEMBLY INSTRUCTIONS & PARTS MANUAL

2565-756_REV_B 11/2016

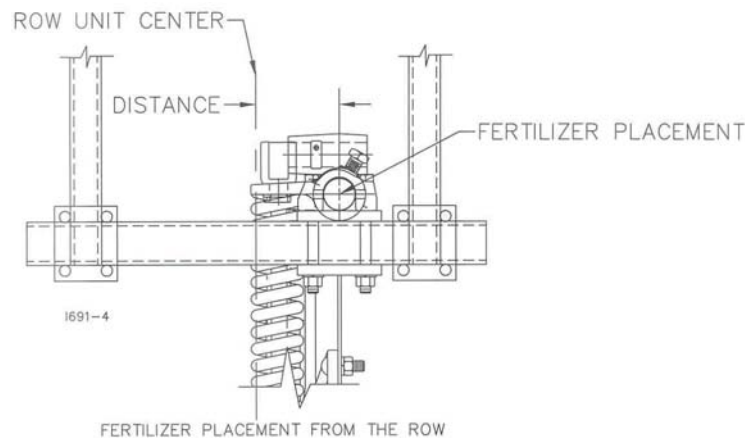


2995-009 - CASE T.O.W. KIT, L.H.
 2995-010 - CAE T.O.W. KIT, R.H.

| KEY | QTY. | PART NO. | DESCRIPTION |
|-----|------|------------|-------------------------------|
| 1 | 2 | 2995-235 | CASE REAR MOUNT W.A. |
| 2 | 16 | 2520-357 | 1/2-13 LOCK HEX NUT ZP |
| 3 | 8 | 2526-352 | 1/2 SAE FLATWASHER ZP |
| 4 | 4 | 2967-583 | 5/16" BUSHING ZYD |
| 5 | 4 | 2502-351 | 1/2-13 X 2 HHCS GR5 ZP |
| 6 | 2 | 2505-345 | 1/2-13 X 2 CAR BLT GR 5 ZP |
| 7 | 2 | 2502-313 | 1/2-13 X 3" HHCS GR 5 ZP |
| 8 | 8 | 2502-362 | 1/2-13 X 5 HHCS GR5 ZP |
| 9 | 1 | 2995-345 | 22" CROSS TUBE |
| 10 | 4 | 2995-346 | 3 X 3.5 CLAMP PLATE |
| 11 | 1 | 3010-303 | STRAIGHT COULTER SHANK |
| 12 | 1 | 2990-153 | CLAMP KIT, 2" SQUARE BAR |
| 13 | 1 | 2995-013-L | SHORT 2995 INJ. COULTER, L.H. |
| | 1 | 2995-013-R | SHORT 2995 INJ. COULTER, R.H. |

ASSEMBLY INSTRUCTIONS

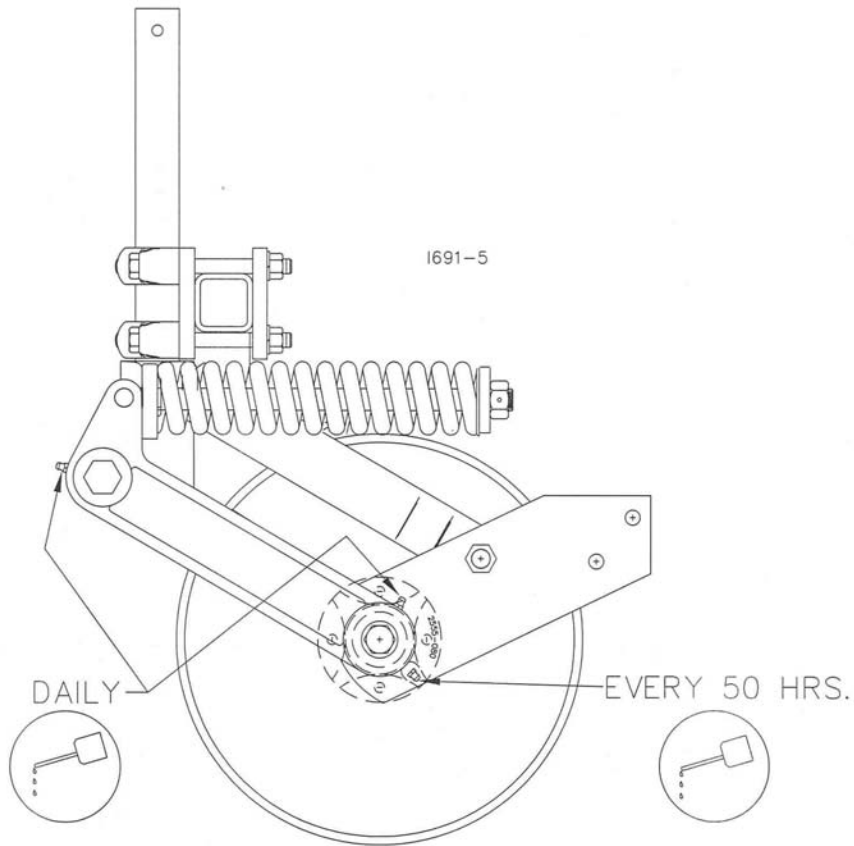
1. Adjust row unit down pressure springs to the minimum setting, remove planter transport locks and lower the planter frame down to allow the planter row units to just touch ground level.
2. Attach the 2995-235 rear mount brackets to the planter row units using the 1/2" bolts, washer, and lock nuts.
3. Clamp the 2995-345 22" cross tube to the 2995-235 rear mount brackets at or near the end of the tubing using the 1/2" x 5" bolts, 2995-346 clamp plates and lock nuts.
4. Locate the row unit center and make a mark on the cross tube. Knowing the distance off of the row center that you want to place the fertilizer, measure that distance and make a mark on the cross tube. Now attach the 2990-153 clamp kit to the front of the cross tube and center the clamp on the mark where the fertilizer is to be placed. NOTE: It is best to consult the fertilizer supplier for spacing requirements when placing starter fertilizer close to the seed.



5. Install the 2530-208, 3/8" x 2 1/2" roll pin into the end of the 1-1/2" round shank, leaving equal amount of the roll pin protruding out each side.
6. Insert the 2975-303 locking collar into the coulters pivot casting and slide the 22" shank up through the casting and locking collar. Allow the coulters to pivot, do not align the roll pin with the slots in the casting. Slide the shank until the roll pin has a 1/16" clearance with the casting. Install and slightly tighten the 5/8" x 1" cupped set screw in the lock collar onto the shank.
7. Install the coulters into the clamp kit by installing the shank up through the clamp casting, hold the shank in place using the cotter pin on top of the clamp casting. Install and triple tighten two 5/8" x 1" cupped set screws into the clamp castings, torque to 110 ft. lbs. Coulters depth can be adjusted by raising or lowering the shank at the clamp kit.
8. Adjust the locking collar to allow the coulters to swivel an equal distance left and right. Triple tighten the 5/8" x 1" cupped set screw on the locking collar, torque to 110 ft. lbs.

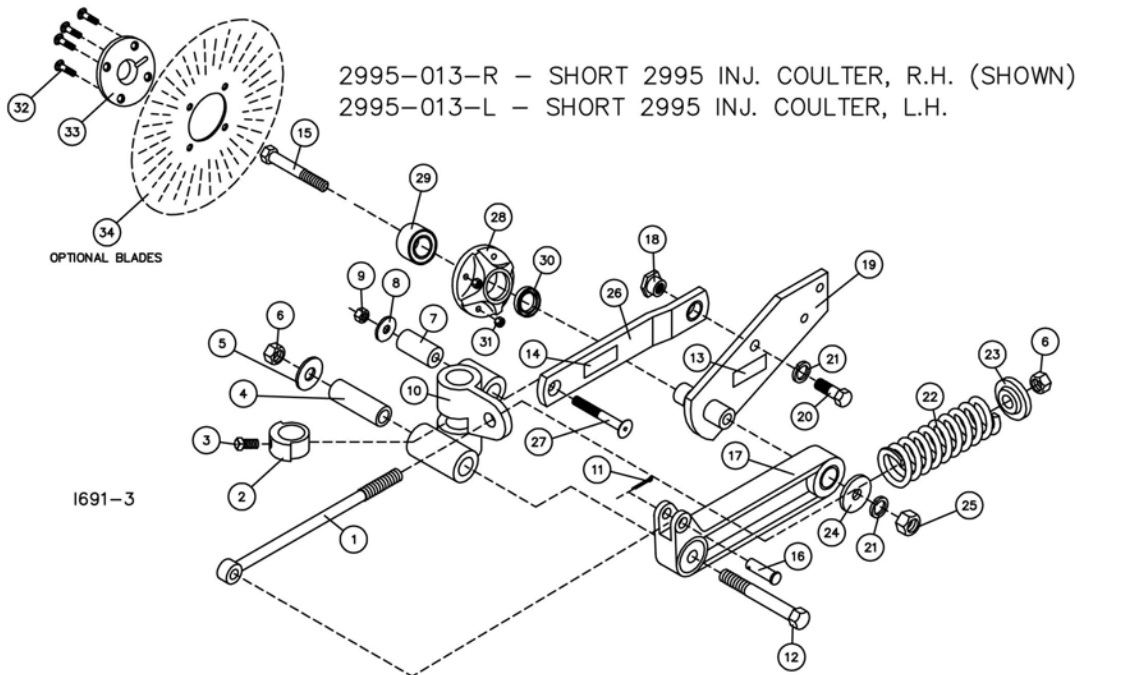
ASSEMBLY INSTRUCTIONS

9. Lubricate the coultter with grease before using.



10. After a two hour use, check all bolts and set screws for tightness. Check again after 20 hours of use.

PARTS IDENTIFICATION

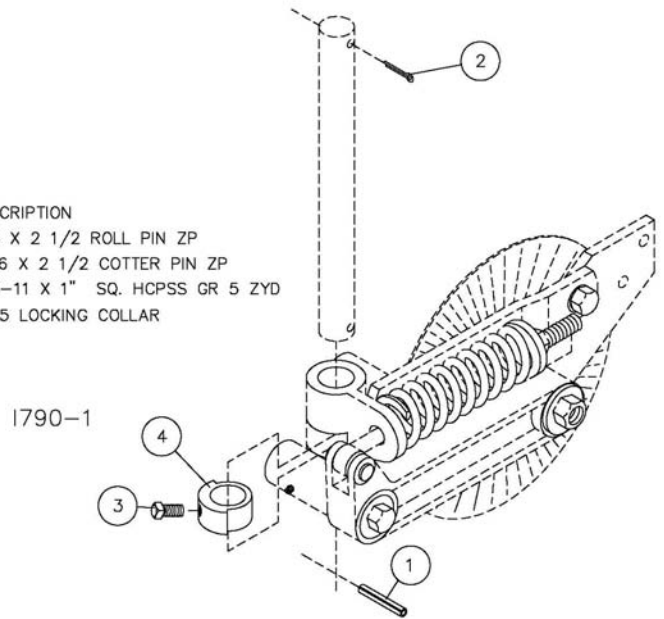


| DET | QTY | PART NO. | DESCRIPTION | DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|-----------------------------------|-----|-----|---------------|------------------------------------|
| 1 | 1 | 2920-324 | PUSHROD 9-3/16 | 19A | 1 | 2995-220 | R.H. KNIFE ARM W.A. (SHOWN) |
| 2 | 1 | 2975-303 | LOCKING COLLAR | 19B | 1 | 2995-219 | L.H. KNIFE ARM W.A. |
| 3 | 1 | 2503-379 | 5/8-11 X 1 SQ. HCPSS GR.5 ZP. | 20 | 1 | 2502-339 | 5/8-18 X 1 1/2 HHCS GR.5 ZP. |
| 4 | 1 | 2570-704 | PIVOT SLEEVE | 21 | 2 | 2525-451 | 5/8 MED. LOCK WASHER ZYD |
| 5 | 1 | 2527-532 | 25/32 X 2 X 10 GA MA. BU., ZP | 22 | 1 | 2550-745 | UNPAINTED SEALER COMP SPRING |
| 6 | 2 | 2520-515 | 3/4-10 LOCK HEX NUT ZYD | 23 | 1 | 2555-060 | SPRING BUSHING CASTING |
| 7 | 1 | 2995-303 | PIVOT SLEEVE, 2-1/2" | 24 | 1 | 2527-529 | 21/32ID X 2 1/4OD X 1/4" MA BU |
| 8 | 1 | 2527-340 | 1/2IDX1 1/2OD X 10 GA MA BU ZP | 25 | 1 | 2520-452 | 5/8-11 HEX NUT ZYD |
| 9 | 1 | 2520-357 | 1/2-13 LOCK HEX NUT ZYD | 26 | 1 | 2995-111 | UPPER COULTER ARM ASSEMBLY |
| 10A | 1 | 2995-307 | COULTER PIVOT CASTING, RH (SHOWN) | 27 | 1 | 2502-360 | 1/2-13 X 4 HSFHCS ZYD |
| 10B | 1 | 2995-306 | COULTER PIVOT CASTING, LH | 28 | 1 | 2965-351 | HUB CASTING, MACHINED 4-BOLT |
| 11 | 1 | 2531-102 | 1/8 X 1-1/4 COTTER PIN BLACK | 29 | 1 | 2570-594 | BEARING, 2 ROW NTN# DF0654L |
| 12 | 1 | 2502-510 | 3/4-10 X 6 HHCS GR 5 ZYD | 30 | 1 | 2550-069 | SEAL, TRIPLE LIP, NTI# 1812-5 |
| 13 | 1 | 2565-162 | YETTER DECAL, 1-1/2 X 4-1/2 | 31 | 4 | 2520-206 | 5/16-18 FLANGE LOCK NUT |
| 14 | 1 | 2565-071 | PATENT PENDING DECAL | 32 | 4 | 2505-208 | 5/16-18 X 1-1/2 CAR BOLT GR5 ZP |
| 15 | 1 | 2502-327 | 5/8-11 X 5 HHCS GR 5 ZYD | 33 | 1 | 2965-352-DISC | HUB CAP CASTING, 4 BOLT, BLACK |
| 16 | 1 | 2995-308 | SPRING ROD PIN | 34 | 1 | 2571-014 | .140" X 14", 2 BEVEL SMOOTH BLADE |
| 17 | 1 | 2995-110 | LOWER COULTER ARM ASSEMBLY | | 1 | 2571-189 | .118" X 13" 25 FLUTE BLADE, 4 BOLT |
| 18 | 1 | 2570-762 | UPPER ARM PIVOT/WASHER ZP | | 1 | 2571-022 | .118" X 13", 13 WAVE (3.25"BC) |

UPDATED 10/20/16

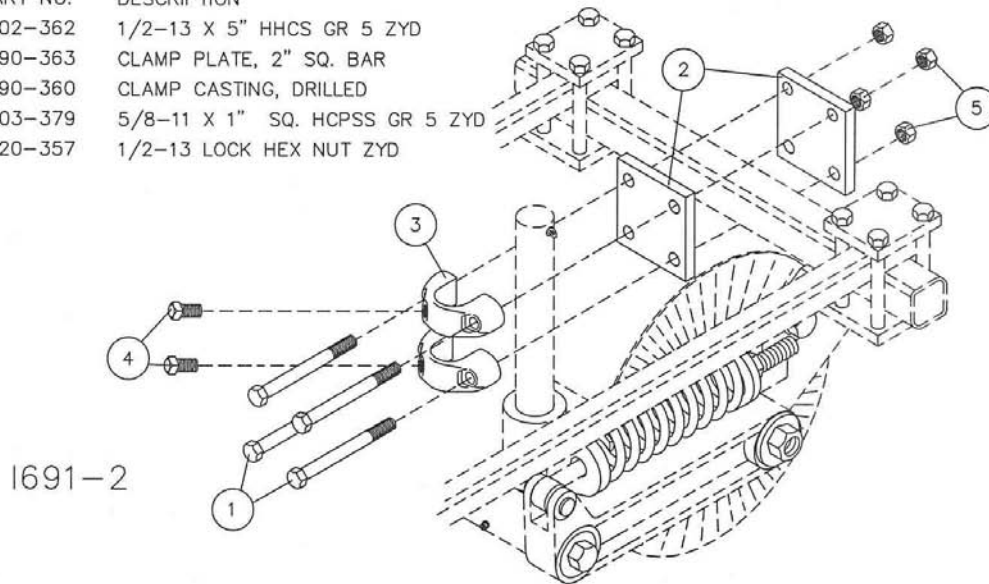
PARTS IDENTIFICATION

| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 1 | 2530-208 | 3/8 X 2 1/2 ROLL PIN ZP |
| 2 | 1 | 2531-161 | 5/16 X 2 1/2 COTTER PIN ZP |
| 3 | 1 | 2503-379 | 5/8-11 X 1" SQ. HCPSS GR 5 ZYD |
| 4 | 1 | 2975-303 | 2975 LOCKING COLLAR |

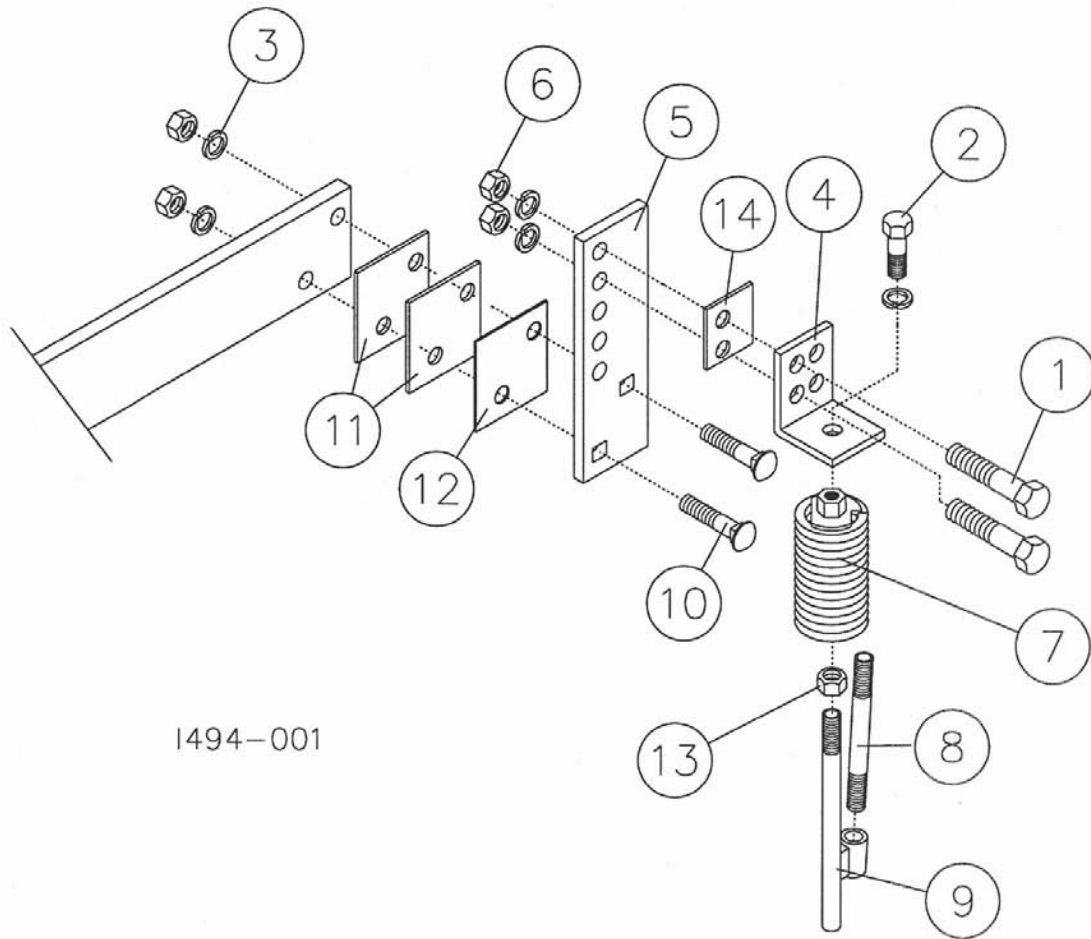


2990-153 CLAMP KIT, 2" SQ. BAR

| DET | QTY | PART NO. | DESCRIPTION |
|-----|-----|----------|--------------------------------|
| 1 | 4 | 2502-362 | 1/2-13 X 5" HHCS GR 5 ZYD |
| 2 | 2 | 2990-363 | CLAMP PLATE, 2" SQ. BAR |
| 3 | 2 | 2990-360 | CLAMP CASTING, DRILLED |
| 4 | 2 | 2503-379 | 5/8-11 X 1" SQ. HCPSS GR 5 ZYD |
| 5 | 4 | 2520-357 | 1/2-13 LOCK HEX NUT ZYD |



2995-109 SPRING MOUNT LIQUID FERTILIZER INJECTOR KIT



1494-001

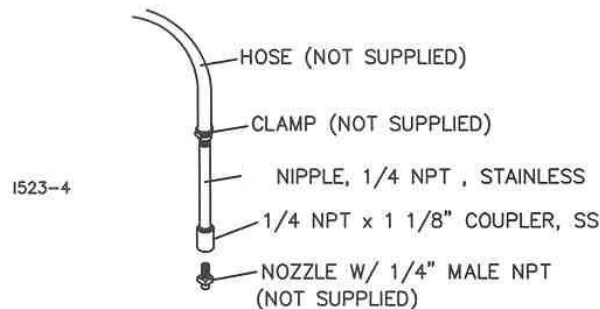
2995-109 SPRING MOUNT LIQ. FERT. INJECTOR KIT

| 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 STL |
| 9 | 1 | 2995-212 | INJECTOR ROD W.A., 1/2-13 |
| 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 ZP |
| 14 | 1 | 2995-320 | SPACER, INJECTOR |

SPRING MOUNT LIQUID FERTILIZER INJECTOR KIT INSTRUCTION

1. Attach adjustment plate (#5) to the straight arm with two 1/2 x 2" carriage bolts in the bottom hole, lockwashers and nuts. Do not tighten, shims may have to be added or taken away to align the injector rod with the coulter blade. Assemble with the head of the bolts on the blade side of the arm. Assemble the injector mount plate (#4) and spacer (#14) to the adjustment plate using the two 1/2 x 1-1/2" bolts, nuts and lockwashers.
2. Assemble the stainless steel pipe nipple to the injector rod w.a. .

NOTE: A female hose barb (not supplied) will be required. Also a straight stream nozzle 1/4 NPT male thread will be required (not supplied). Some operators also install a check valve inline so that fertilizer is not wasted. At the pipe coupler install the appropriate nozzle (not supplied) according to the liquid fertilizer application rate. Nozzles can be ordered through your nearest implement dealer or fertilizer equipment dealer. See the tip application chart in this manual.



3. Thread a 1/2" hex nut onto the injector rod w.a. with at least 3/4" threads showing. Now thread the spring assembly onto the injector rod. Now jam lock the injector rod to the spring assembly using the 1/2" jam hex nut.
3. Install the injector rod/spring assembly to the injector mount using a 1/2 x 1" bolt and 1/2" lockwasher.
NOTE: The injector rod assembly is to be installed so that the stream nozzle is on the trailing or rear side of the injector rod.
4. Depth is adjusted by selecting a different hole in the adjustment plate.
5. For perfect alignment of injector rod to the coulter blade use the shims, Part #2970-319 & 2970-320.
6. Securely tighten all hardware.
7. After four hours of use, inspect the assembly for loose hardware and re-tighten if necessary.

LIQUID FERTILIZER APPLICATION RATE AND PRESSURE CHART

TABLES ARE BASED ON 30" NOZZLE SPACING

| TIP # | LIQUID PRESSURE IN PSI | CAPACITY 1 NOZZLE IN GPM | GALLONS PER ACRE (USING WATER) | | | | | |
|--------|------------------------|--------------------------|--------------------------------|-----------|-------------|-----------|-----------|-----------|
| | | | 4 MPH H2O | 5 MPH H2O | 5.5 MPH H2O | 6 MPH H2O | 7 MPH H2O | 8 MPH H2O |
| #00015 | 20 | 0.11 | 5.45 | 4.36 | 3.96 | 3.63 | 3.11 | 2.72 |
| | 25 | 0.12 | 5.94 | 4.75 | 4.32 | 3.96 | 3.39 | 2.97 |
| | 30 | 0.13 | 6.44 | 5.15 | 4.68 | 4.29 | 3.68 | 3.22 |
| | 40 | 0.15 | 7.43 | 5.94 | 5.40 | 4.95 | 4.24 | 3.71 |
| | 50 | 0.17 | 8.42 | 6.73 | 6.12 | 5.61 | 4.81 | 4.21 |
| 60 | 0.18 | 8.91 | 7.13 | 6.48 | 5.94 | 5.09 | 4.46 | |
| #0002 | 20 | 0.14 | 6.93 | 5.54 | 5.04 | 4.62 | 3.96 | 3.47 |
| | 25 | 0.16 | 7.92 | 6.34 | 5.76 | 5.28 | 4.53 | 3.96 |
| | 30 | 0.17 | 8.42 | 6.73 | 6.12 | 5.61 | 4.81 | 4.21 |
| | 40 | 0.20 | 9.90 | 7.92 | 7.20 | 6.60 | 5.66 | 4.95 |
| | 50 | 0.23 | 11.39 | 9.11 | 8.28 | 7.59 | 6.51 | 5.69 |
| 60 | 0.25 | 12.38 | 9.90 | 9.00 | 8.25 | 7.07 | 6.19 | |
| #0003 | 20 | 0.21 | 10.40 | 8.32 | 7.56 | 6.93 | 5.94 | 5.20 |
| | 25 | 0.24 | 11.88 | 9.50 | 8.64 | 7.92 | 6.79 | 5.94 |
| | 30 | 0.26 | 12.87 | 10.30 | 9.36 | 8.58 | 7.35 | 6.44 |
| | 40 | 0.30 | 14.85 | 11.88 | 10.80 | 9.90 | 8.49 | 7.43 |
| | 50 | 0.34 | 16.83 | 13.46 | 12.24 | 11.22 | 9.62 | 8.42 |
| 60 | 0.37 | 18.32 | 14.65 | 13.32 | 12.21 | 10.47 | 9.16 | |
| #0004 | 20 | 0.28 | 13.86 | 11.09 | 10.08 | 9.24 | 7.92 | 6.93 |
| | 25 | 0.32 | 15.84 | 12.67 | 11.52 | 10.56 | 9.05 | 7.92 |
| | 30 | 0.35 | 17.33 | 13.86 | 12.60 | 11.55 | 9.90 | 8.66 |
| | 40 | 0.40 | 19.80 | 15.84 | 14.40 | 13.20 | 11.31 | 9.90 |
| | 50 | 0.45 | 22.28 | 17.82 | 16.20 | 14.85 | 12.73 | 11.14 |
| 60 | 0.49 | 24.26 | 19.40 | 17.64 | 16.17 | 13.86 | 12.13 | |
| #0005 | 20 | 0.35 | 17.33 | 13.86 | 12.60 | 11.55 | 9.90 | 8.66 |
| | 25 | 0.40 | 19.80 | 15.84 | 14.40 | 13.20 | 11.31 | 9.90 |
| | 30 | 0.43 | 21.29 | 17.03 | 15.48 | 14.19 | 12.16 | 10.64 |
| | 40 | 0.50 | 24.75 | 19.80 | 18.00 | 16.50 | 14.14 | 12.38 |
| | 50 | 0.56 | 27.72 | 22.18 | 20.16 | 18.48 | 15.84 | 13.66 |
| 60 | 0.61 | 30.20 | 24.16 | 21.96 | 20.13 | 17.25 | 15.10 | |
| #0006 | 20 | 0.42 | 20.79 | 16.63 | 15.12 | 13.66 | 11.68 | 10.40 |
| | 25 | 0.47 | 23.27 | 18.61 | 16.92 | 15.51 | 13.29 | 11.63 |
| | 30 | 0.52 | 25.74 | 20.59 | 18.72 | 17.16 | 14.71 | 12.87 |
| | 40 | 0.60 | 29.70 | 23.76 | 21.60 | 19.80 | 16.97 | 14.85 |
| | 50 | 0.67 | 33.17 | 26.53 | 24.12 | 22.11 | 18.95 | 16.58 |
| 60 | 0.74 | 36.63 | 29.30 | 26.64 | 24.42 | 20.93 | 18.32 | |
| #0008 | 20 | 0.57 | 28.22 | 22.57 | 20.52 | 18.81 | 16.12 | 14.11 |
| | 25 | 0.63 | 31.19 | 24.95 | 22.68 | 20.79 | 17.82 | 15.59 |
| | 30 | 0.69 | 34.16 | 27.32 | 24.84 | 22.77 | 19.52 | 17.08 |
| | 40 | 0.80 | 39.60 | 31.68 | 28.80 | 26.40 | 22.63 | 19.80 |
| | 50 | 0.89 | 44.06 | 35.24 | 32.04 | 29.37 | 25.17 | 22.03 |
| 60 | 0.98 | 48.51 | 38.81 | 35.28 | 32.34 | 27.72 | 24.26 | |
| #0010 | 20 | 0.71 | 35.15 | 28.12 | 25.56 | 23.43 | 20.08 | 17.57 |
| | 25 | 0.79 | 39.11 | 31.28 | 28.44 | 26.07 | 22.35 | 19.55 |
| | 30 | 0.87 | 43.07 | 34.45 | 31.32 | 28.71 | 24.61 | 21.53 |
| | 40 | 1.00 | 49.50 | 39.60 | 36.00 | 33.00 | 28.29 | 24.75 |
| | 50 | 1.12 | 55.44 | 44.35 | 40.32 | 36.96 | 31.68 | 27.72 |
| 60 | 1.23 | 60.89 | 48.71 | 44.28 | 40.59 | 34.79 | 30.44 | |
| #0015 | 20 | 1.06 | 52.47 | 41.98 | 38.16 | 34.98 | 29.98 | 26.24 |
| | 25 | 1.19 | 58.91 | 47.12 | 42.84 | 39.27 | 33.66 | 29.45 |
| | 30 | 1.30 | 64.35 | 51.48 | 46.80 | 42.90 | 36.77 | 32.18 |
| | 40 | 1.50 | 74.25 | 59.40 | 54.00 | 49.50 | 42.43 | 37.13 |
| | 50 | 1.68 | 83.16 | 66.53 | 60.48 | 55.44 | 47.52 | 41.58 |
| 60 | 1.81 | 89.60 | 71.68 | 65.16 | 59.73 | 51.20 | 44.80 | |

| | | | | | | | |
|------------------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| ROW SPACING MULTIPLIER | 10" X 3.3 | 15" X 2.0 | 18" X 1.66 | 20" X 1.5 | 36" X .83 | 38" X .79 | 40" X .75 |
|------------------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|

GPA (Per Nozzle) = $\frac{5940 \times \text{GPM}}{\text{MPH} \times \text{W}}$

H2O = WATER

SOLUTION FACTOR

GPA = GALLON PER ACRE

GPM = GALLON PER MINUTES

MPH = MILES PER HOUR

W = WIDTH

28% = H2O/1.13

32% = H2O/1.15

This table is a reference only. Please calibrate your equipment to insure proper rate of application. The information contained in this issue is offered in good faith by Yetter Mfg. Co. to further the understanding of liquid fertilizer application.

However, the use of the information provided is beyond the control of Yetter Mfg. Co. and in no case shall Yetter Mfg. Co. or any seller of its products be responsible for any damages that may occur from the use of this information.