



*PROGRESSIVE
FARM PRODUCTS, INC.*

Edge-Bent Shank Mount
w/18" Disk Sealer

Assembly Instructions

Edge-Bent Shank and 20" Coulter Assembly

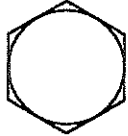
1. Lower the toolbar to a good working height.
2. Use hardware from bag #102057 (7" x 5" frame) or bag# 102058 (7" x 7" frame) for rigid shank for assembly and installation of shank mounts.
3. Refer to the coulter spacing drawings in the back of the book for correct locations/placement of shank mounts. Note there are left and right shank assemblies. When placing an assembly, notice that the shank will line up with either the left or right u-bolt. Mount the row unit to the bar with u-bolts and hardware provided.
4. Attach the coulter arm assembly to the shank mounting bracket using the 1" x 7" pin provided in the mounting bracket. There are also right hand and left hand coulter arms. To determine which is right and left hold the arm up to the 1" pin (the hub assembly should be towards the back of the tool bar). If the hub assembly is facing right – right hand, left – left hand. When assembling the T-Rod/Coulter Spring Assembly, be sure to leave one inch of threads below the lock nut of the spring loaded T-Rod and a distance of 1-1/2" between the bottom of the "T" and the 3/4" nut. **Note: These measurements are approximate. Field conditions may cause the need for further adjustments.**
5. Attach coulter blade to hub with 1/2"-20 x 1-1/4" whiz bolt and 1/2" lock washers.
6. Attach shank to shank mount as shown in diagram.

Disk Sealer

1. Use hardware from bag #102041 to assemble (as per diagram) and mount the disk sealers to the shank.
For Rigid Shank Mounts, measurement (when tightened down) should be approximately 15-1/2" from the back edge of the shank mount to the back side (at the bend) of the disk sealer shank mounting bracket (part #801694). Note: Measurements are approximate. Adjustments may need to be made depending upon the depth the knives are running in the ground. For optimum performance, do not run the sealer blades any more than 2-3 inches in the ground.
2. You can either mount the sealer blades now or wait until all hosing (dry, liquid, & anhydrous) has been completed.

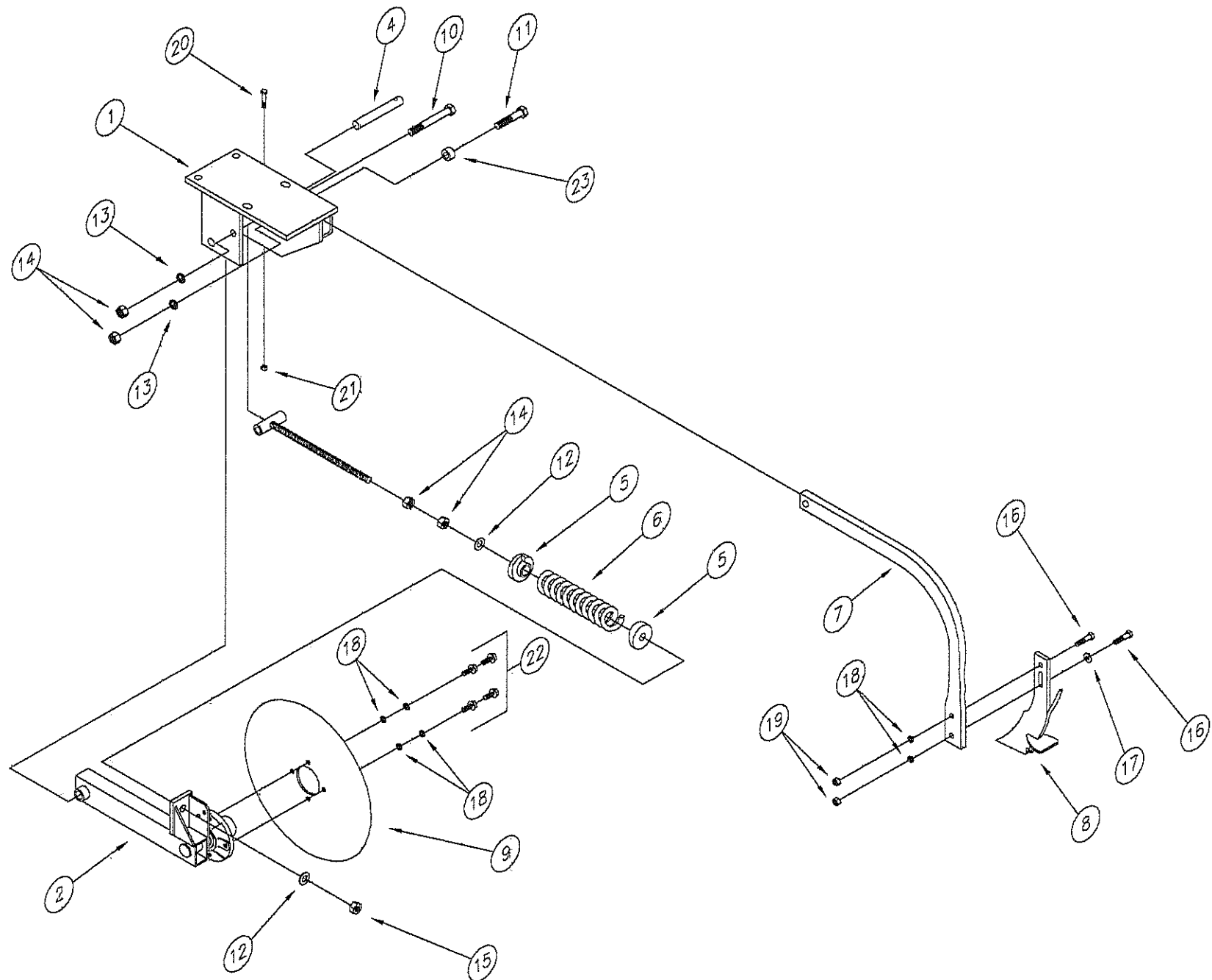
BOLT TORQUE

1. Improperly tightened bolts will result in damage, breakage, expense, and lost time.
2. Always replace bolts with the specified grade and type.
3. Torque all fasteners to the proper value during assembly, then check every two (2) hours of operation until they remain tight.
4. Use the following torque chart as a guide to insure proper tightening of the fasteners.
5. Make a daily inspection of the implement checking for loose bolts as well as leaking hoses.

BOLT Ø - TPI	 GRADE 2	 GRADE 5	 A - 325	 GRADE 8
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

TORQUE VALUES ARE IN FT./LBS. AND ARE BASED ON PLATED OR GREASE COATED HARDWARE. INCREASE VALUES 5 - 10% FOR FINE THREADS.
USE 65% OF THE LISTED VALUE FOR JAM NUTS.

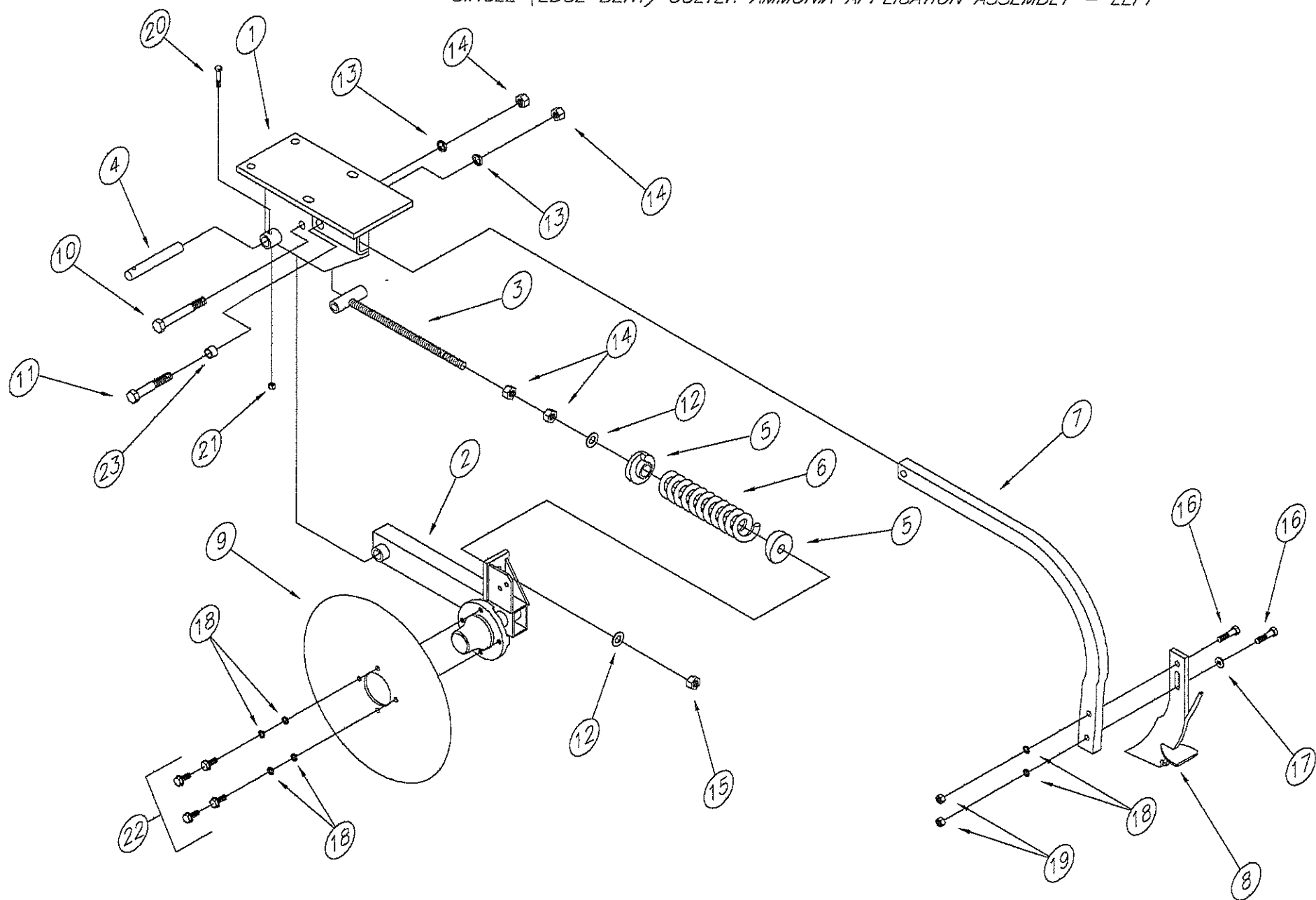
SINGLE (EDGE BENT) COLTER AMMONIA APPLICATION ASSEMBLY – RIGHT



RIGHT (EDGE BENT) COLTER ASSEMBLY COMPLETE – 900134R

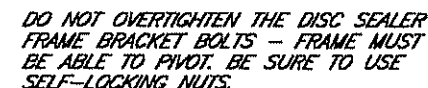
<i>REF. #</i>	<i>QTY.</i>	<i>PART #</i>	<i>DESCRIPTION</i>
<i>1</i>	<i>1</i>	<i>801829</i>	<i>EDGE BENT SHANK MOUNTING BRKT. – RIGHT</i>
<i>2</i>	<i>1</i>	<i>801203</i>	<i>RIGHT SPINDLE TUBE & BUSHING ASSEMBLY</i>
<i>3</i>	<i>1</i>	<i>801198</i>	<i>SPRING TENSION ROD WELDMENT</i>
<i>4</i>	<i>1</i>	<i>602163</i>	<i>Ø1.00 X 7" PIN</i>
<i>5</i>	<i>2</i>	<i>400096</i>	<i>SPRING RETAINER CASTING</i>
<i>6</i>	<i>1</i>	<i>400095</i>	<i>COMPRESSION SPRING</i>
<i>7</i>	<i>1</i>	<i>900135</i>	<i>EDGE BENT SHANK</i>
<i>8</i>	<i>1</i>	<i>–</i>	<i>AMMONIA KNIFE – SEE KNIFE OPTION PAGE</i>
<i>9</i>	<i>1</i>	<i>400097</i>	<i>20" SMOOTH COLTER</i>
<i>10</i>	<i>1</i>	<i>101179</i>	<i>3/4–10 X 6" HEX BOLT</i>
<i>11</i>	<i>1</i>	<i>101480</i>	<i>3/4–10 X 3–1/2" HEX BOLT – GR 8 YEL. ZINC</i>
<i>12</i>	<i>2</i>	<i>101233</i>	<i>3/4" FLAT WASHER</i>
<i>13</i>	<i>2</i>	<i>101224</i>	<i>3/4" LOCK WASHER</i>
<i>14</i>	<i>4</i>	<i>101215</i>	<i>3/4–10 HEX NUT</i>
<i>15</i>	<i>1</i>	<i>101459</i>	<i>3/4–10 TOPLOCK NUT</i>
<i>16</i>	<i>2</i>	<i>101149</i>	<i>1/2–13 X 2" HEX BOLT</i>
<i>17</i>	<i>1</i>	<i>101231</i>	<i>1/2" FLAT WASHER</i>
<i>18</i>	<i>6</i>	<i>101222</i>	<i>1/2" LOCK WASHER</i>
<i>19</i>	<i>2</i>	<i>101213</i>	<i>1/2–13 HEX NUT</i>
<i>20</i>	<i>1</i>	<i>101127</i>	<i>3/8–16 X 2" HEX BOLT</i>
<i>21</i>	<i>1</i>	<i>101455</i>	<i>3/8–16 TOPLOCK NUT</i>
<i>22</i>	<i>4</i>	<i>301193</i>	<i>1/2–20 X 1–1/4" WHIZ BOLT</i>
<i>23</i>	<i>1</i>	<i>602233</i>	<i>1–1/4 O.D. X .774 I.D. X 3/4" BUSHING</i>
<i>–</i>	<i>2</i>	<i>101316</i>	<i>3/4–10 U-BOLT (NOT SHOWN)</i>
<i>–</i>	<i>4</i>	<i>101224</i>	<i>3/4" LOCK WASHER (NOT SHOWN)</i>
<i>–</i>	<i>4</i>	<i>101215</i>	<i>3/4–10 HEX NUT (NOT SHOWN)</i>

SINGLE (EDGE BENT) COLTER AMMONIA APPLICATION ASSEMBLY - LEFT

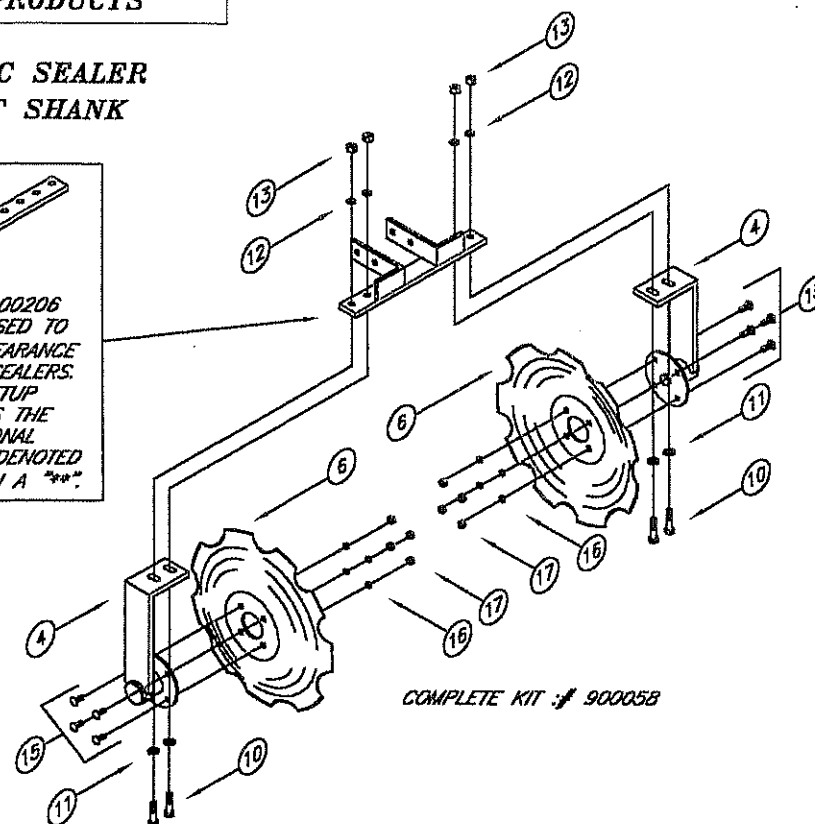


LEFT (EDGE BENT) COLTER ASSEMBLY COMPLETE – 900134L

<i>REF. #</i>	<i>QTY.</i>	<i>PART #</i>	<i>DESCRIPTION</i>
<i>1</i>	<i>1</i>	<i>801830</i>	<i>EDGE BENT SHANK MOUNTING BRKT. – LEFT</i>
<i>2</i>	<i>1</i>	<i>801204</i>	<i>LEFT SPINDLE TUBE & BUSHING ASSEMBLY</i>
<i>3</i>	<i>1</i>	<i>801198</i>	<i>SPRING TENSION ROD WELDMENT</i>
<i>4</i>	<i>1</i>	<i>602212</i>	<i>Ø1.00 X 7-1/4" PIN</i>
<i>5</i>	<i>2</i>	<i>400096</i>	<i>SPRING RETAINER CASTING</i>
<i>6</i>	<i>1</i>	<i>400095</i>	<i>COMPRESSION SPRING</i>
<i>7</i>	<i>1</i>	<i>900135</i>	<i>EDGE BENT SHANK</i>
<i>8</i>	<i>1</i>	<i>–</i>	<i>AMMONIA KNIFE – SEE KNIFE OPTION PAGE</i>
<i>9</i>	<i>1</i>	<i>400097</i>	<i>20" SMOOTH COLTER</i>
<i>10</i>	<i>1</i>	<i>101179</i>	<i>3/4-10 X 6" HEX BOLT</i>
<i>11</i>	<i>1</i>	<i>101480</i>	<i>3/4-10 X 3-1/2" HEX BOLT – GR 8 YEL. ZINC</i>
<i>12</i>	<i>2</i>	<i>101233</i>	<i>3/4" FLAT WASHER</i>
<i>13</i>	<i>2</i>	<i>101224</i>	<i>3/4" LOCK WASHER</i>
<i>14</i>	<i>4</i>	<i>101215</i>	<i>3/4-10 HEX NUT</i>
<i>15</i>	<i>1</i>	<i>101459</i>	<i>3/4-10 TOPLOCK NUT</i>
<i>16</i>	<i>2</i>	<i>101149</i>	<i>1/2-13 X 2" HEX BOLT</i>
<i>17</i>	<i>1</i>	<i>101231</i>	<i>1/2" FLAT WASHER</i>
<i>18</i>	<i>6</i>	<i>101222</i>	<i>1/2" LOCK WASHER</i>
<i>19</i>	<i>2</i>	<i>101213</i>	<i>1/2-13 HEX NUT</i>
<i>20</i>	<i>1</i>	<i>101127</i>	<i>3/8-16 X 2" HEX BOLT</i>
<i>21</i>	<i>1</i>	<i>101455</i>	<i>3/8-16 TOPLOCK NUT</i>
<i>22</i>	<i>4</i>	<i>301193</i>	<i>1/2-20 X 1-1/4" WHIZ BOLT</i>
<i>23</i>	<i>1</i>	<i>602233</i>	<i>1-1/4 O.D. X .774 I.D. X 3/4" BUSHING</i>
<i>–</i>	<i>2</i>	<i>101316</i>	<i>3/4-10 U-BOLT (NOT SHOWN)</i>
<i>–</i>	<i>4</i>	<i>101224</i>	<i>3/4" LOCK WASHER (NOT SHOWN)</i>
<i>–</i>	<i>4</i>	<i>101215</i>	<i>3/4-10 HEX NUT (NOT SHOWN)</i>



**PART # 400206
MAY BE USED TO
GAIN 4" CLEARANCE
BETWEEN SEALERS.
THIS SETUP
REQUIRES THE
ADDITIONAL
HARDWARE DENOTED
BELOW WITH A ***.**

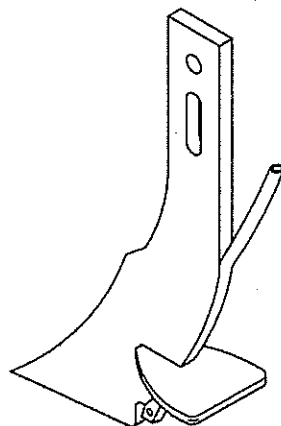


COMPLETE KIT :# 900058

REF. #	QTY.	PART #	DESCRIPTION	REVISED: 1/22/01
12	9	101222	1/2" LOCK WASHER	
13	9	101213	1/2-13 HEX NUT	
14	2	101457	1/2-13 TOPLOCK NUT	
15	8	101357	3/8-16 X 1" CARRIAGE BOLT	
16	8	101220	3/8" LOCK WASHER	
17	8	101211	3/8-16 HEX NUT	
18	1	602214	1.000 O.D. X .524 I.D. X 4-1/8" BUSHING	
**	2	101150	1/2-13 X 2-1/2" HEX BOLT	
**	2	101222	1/2" LOCK WASHER	
**	2	101213	1/2-13 HEX NUT	

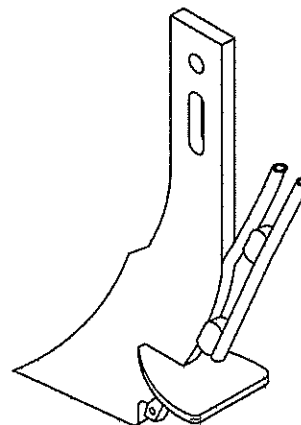
KNIFE OPTIONS

STANDARD KNIFE WITH
BEAVER TAIL SEALER



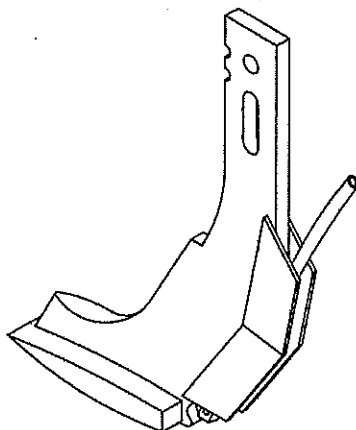
400099 3/8" NH3 TUBE
400191 1/2" NH3 TUBE

STANDARD KNIFE WITH
LIQUID TUBE.



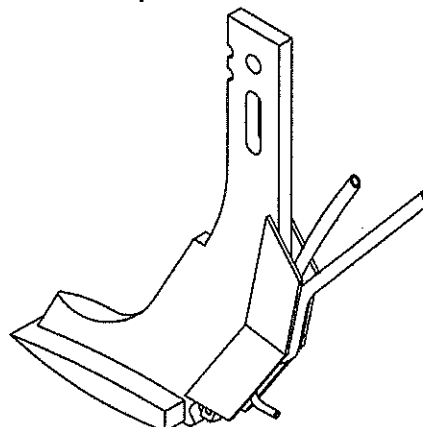
400190 3/8" NH3 TUBE
400192 1/2" NH3 TUBE

STANDARD MOLE KNIFE
ANHYDROUS ONLY



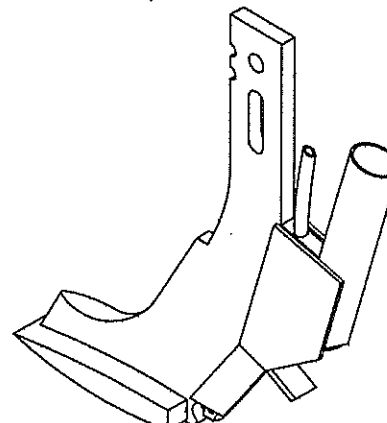
400197 3/8" NH3 TUBE
400195 1/2" NH3 TUBE

MOLE KNIFE WITH
3/8" LIQUID TUBE



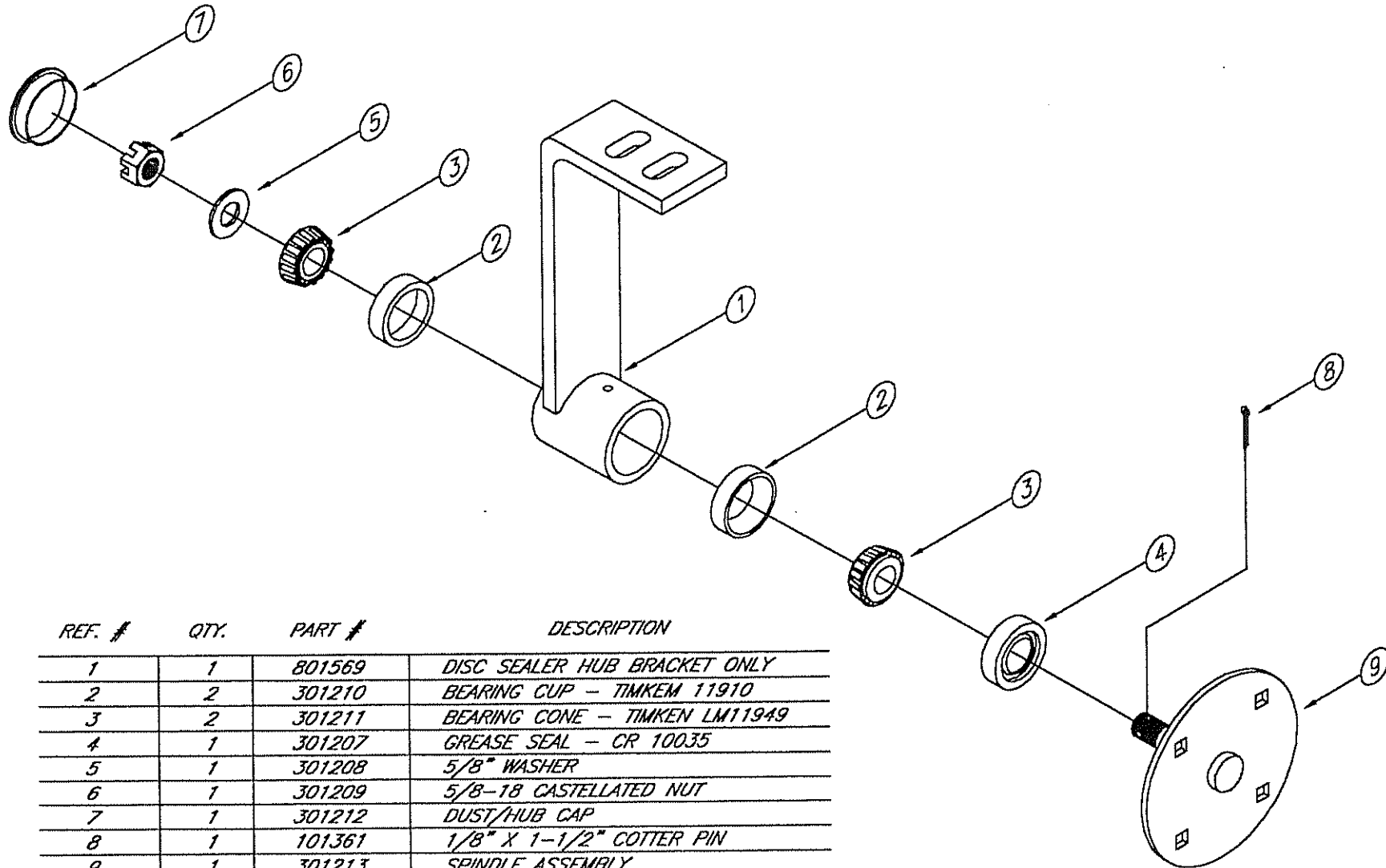
900102 3/8" NH3 TUBE
900103 1/2" NH3 TUBE

MOLE KNIFE WITH
1-1/4" DRY TUBE



900100 3/8" NH3 TUBE
900101 1/2" NH3 TUBE

DISC SEALER HUB ASSEMBLY



HEAVY DUTY 4 BOLT HUB & SPINDLE

HUB ASSEMBLY COMPLTE INCLUDES:
 SEAL - 301183
 BEARING CONE - 301132
 BEARING CUP - 301134
 HUB - 301182
 BEARING CUP - 301184
 BEARING CONE - 301185
 DUST CAP - 301186
 LUG BOLTS - 301150 (4)

SPINDLE ASSEMBLY COMPLETE INCLUDES:
 SPINDLE - 301181
 WASHER - 301142
 CASTELLATED NUT - 301153
 COTTER PIN - 301152

REVISED 09/08/93

REF. #	QTY.	PART #	DESCRIPTION
1	1	301181	SPINDLE - Ø1.625" X 8.0"
2	1	301183	SEAL - CR 14975
3	1	301132	BEARING CONE - LM 67048
4	1	301134	BEARING CUP - LM 67010
5	1	301182	HUB - 4 BOLT W/ 5" BOLT CIRCLE
6	1	301184	BEARING CUP - LM 11910
7	1	301185	BEARING CONE - LM 11949
8	1	301142	THRUST WASHER - 1.5" O.D. X .8125" I.D.
9	1	301153	CASTELLATED NUT - 3/4-16 UNF
10	1	301152	COTTER PIN - 5/32" X 1-3/4"
11	1	301186	DUST CAP
12	4	301150	LUG BOLT - 1/2-20 UNF X 1"
13	1	301188	SPINDLE ASSEMBLY - COMPLETE
14	1	301187	HUB ASSEMBLY - COMPLETE