



PROGRESSIVE
FARM PRODUCTS, INC.

Auto-Reset Shank Mount
w/18" Disk Sealer

Assembly Instructions

Auto-Reset Shank and 20" Coulter Assembly

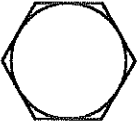
1. Lower the toolbar to a good working height.
2. Use hardware from bag #102028 (7" x 5" frame) or bag# 102034 (7" x 7" frame) for rigid shank for assembly and installation of shank mounts.
3. Refer to the coulter spacing drawings in the back of the book for correct locations/placement of shank mounts. 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. Assemble the auto-reset mechanism as per detailed drawing. For the two auto reset springs, the springs should be tightened down so there is approximately $\frac{1}{2}$ " of threads showing from the top of the T-rod to the top of the jam nut. The spring should be compressed at this point to approximately 10-3/4".
5. 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 $\frac{1}{2}$ " of threads below the lock nut of the spring loaded T-Rod and a distance of 1-7/8" – 2" between the bottom of the "T" and the $\frac{3}{4}$ " nut. The spring should be compressed to approximately 9-1/2" to 9-3/4". **Note: These measurements are approximate. Field conditions may cause the need for further adjustments.**
6. Attach coulter blade to hub with 1/2"-20 x 1-1/4" whiz bolt and 1/2" lock washers.
7. Attach shank to shank mount as shown in diagram.

Disk Sealer

1. Use hardware from bag #102029 to assemble (as per diagram) and mount the disk sealers to the shank.
2. For Auto Reset Shank Mounts, measurement (when tightened down) should be approximately 6" 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.
3. You can either mount the sealer blades now or wait until all hosing (dry, liquid, & anhydrous) has been completed.

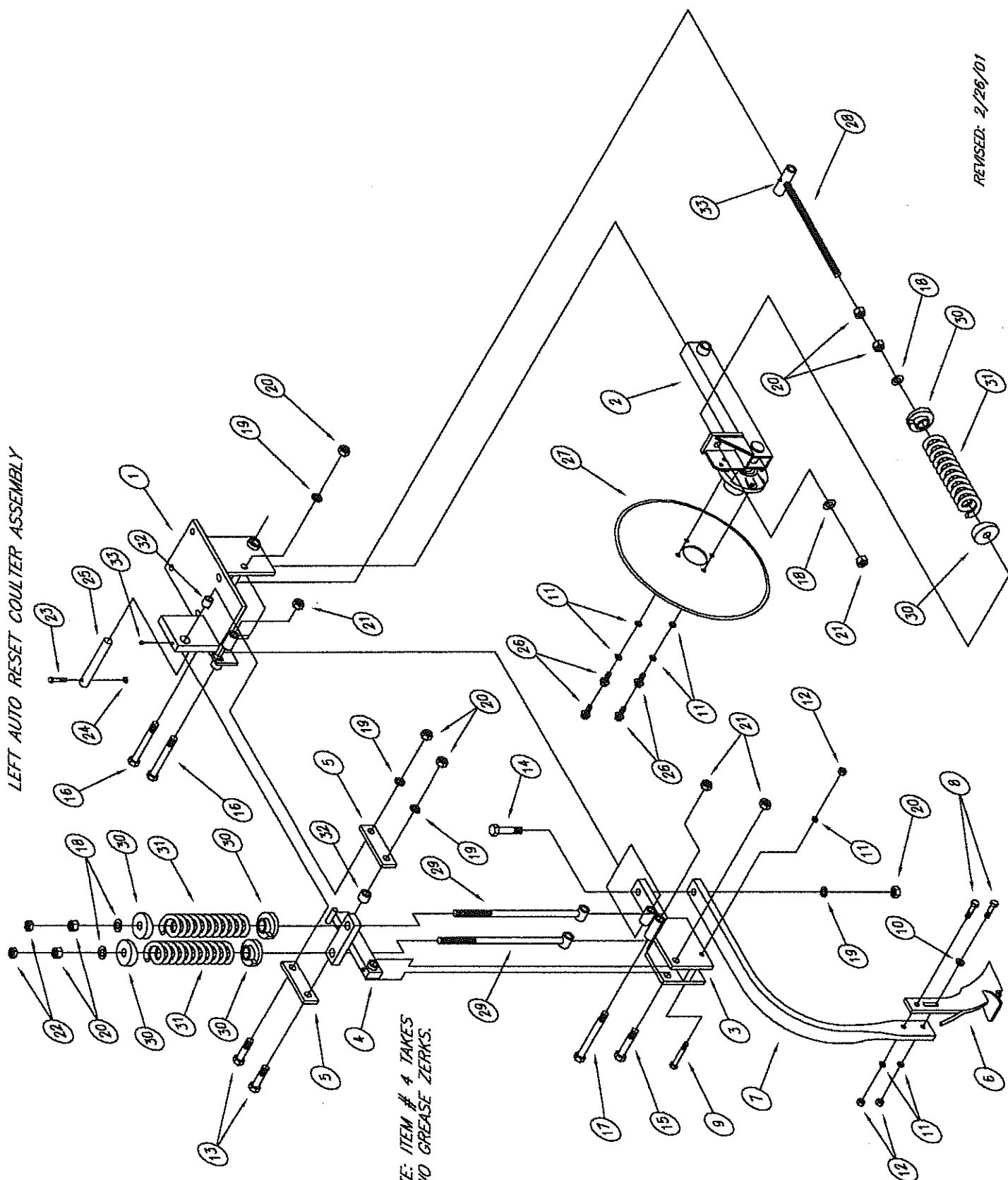
BOLT TORQUE

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	55	50
7/16 - 14	35	55	85	80
1/2 - 13	55	75	125	125
9/16 - 12	75	105	170	175
5/8 - 11	105	185	305	235
3/4 - 10	170	260	445	425
7/8 - 9	365	670	900	690
1 - 8	515	1275	1675	1030
1-1/8 - 7	675	2150	2700	1460
1-1/4 - 7				2060
1-3/8 - 6				2700
1-1/2 - 6				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.

LEFT AUTO RESET COULTER ASSEMBLY



NOTE: ITEM # 4 TAKES
TWO GREASE ZIRKS.

LEFT AUTO RESET COULTER ASSEMBLY COMPLETE -- 900082L

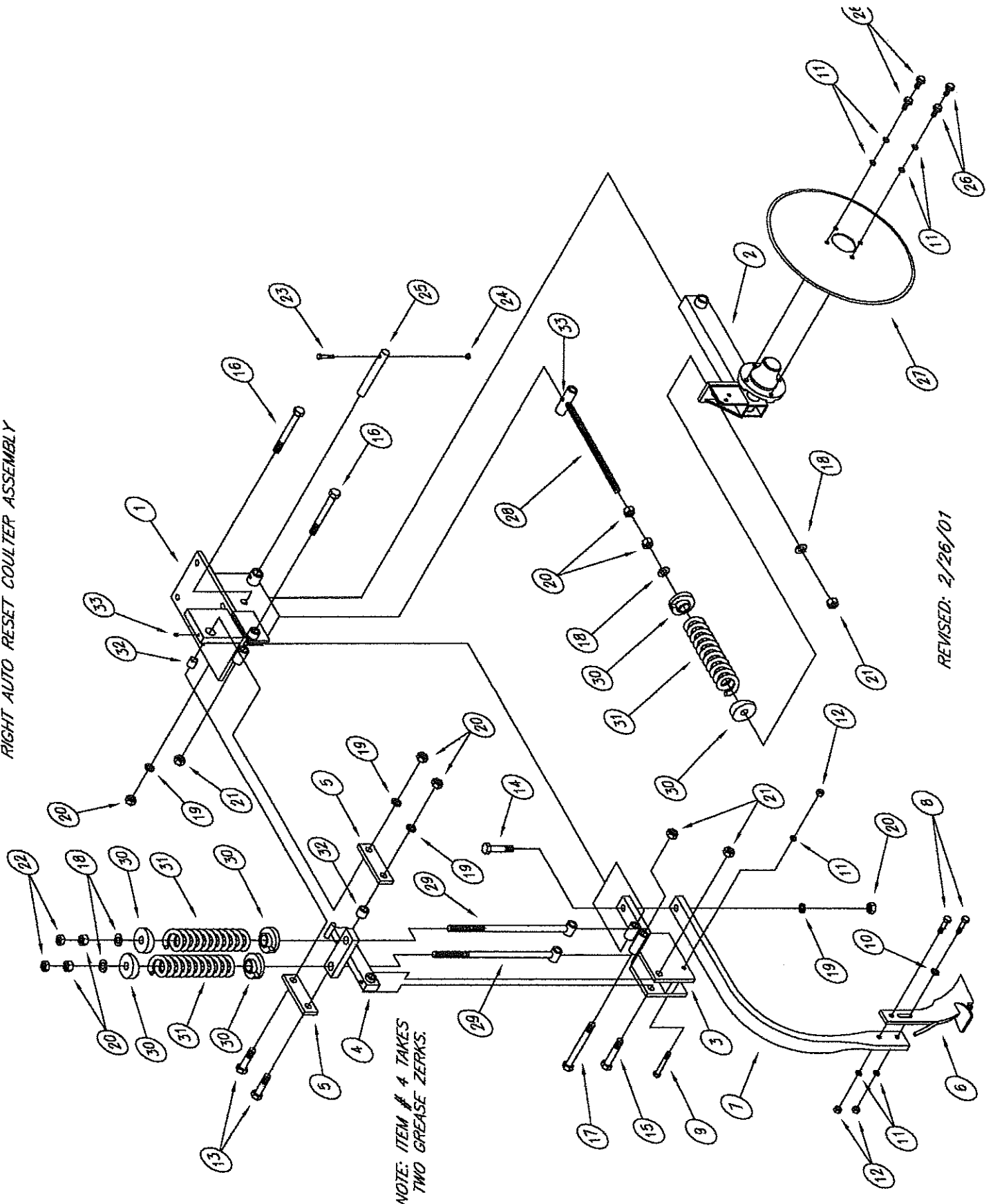
REFERENCE #	QUANTITY	PART #	DESCRIPTION
1	1	801684	LEFT MOUNTING BRACKET
2	1	801204	LEFT SPINDLE TUBE & BUSHING ASSEM.
3	1	801686	SHANK MOUNTING BRACKET
4	1	801687	AUTO RESET BRACKET
5	2	400201	1/2 X 2 X 6-1/8" PIVOT PLATE
6	1	900036	AMMONIA KNIFE WITH SEALER
7	1	900037	SIDE MOUNT SHANK
8	2	101149	1/2-13 X 2" HEX BOLT PLT.
9	1	101153	1/2-13 X 4" HEX BOLT PLT.
10	1	101231	1/2" FLAT WASHER PLT.
11	7	101222	1/2" LOCK WASHER PLT.
12	3	101213	1/2-13 HEX NUT PLT.
13	2	101173	3/4-10 X 3" HEX BOLT PLT.
14	1	101422	3/4-10 X 3" HEX BOLT -- GR 8 YELLOW ZINC
15	1	101175	3/4-10 X 4" HEX BOLT PLT.
16	2	101179	3/4-10 X 6" HEX BOLT PLT.
17	1	101180	3/4-10 X 7" HEX BOLT PLT.
18	4	101233	3/4" FLAT WASHER PLT.
19	4	101224	3/4" LOCK WASHER PLT.
20	8	101215	3/4-10 HEX NUT PLT.
21	4	101459	3/4-10 TOPLOCK NUT PLT.
22	2	101382	3/4-10 JAM NUT PLT.
23	1	101127	3/8-16 X 2" HEX BOLT PLT.
24	1	101455	3/8-16 TOPLOCK NUT PLT.
25	1	602212	Ø1.00 X 7-1/4" PIN
26	4	301193	1/2-20 X 1-1/4" WHIZ BOLT PLT.
27	1	400097	20" SMOOTH COULTER BLADE
28	1	801198	SPRING TENSION ROD -- 15" LONG
29	2	801688	SPRING TENSION ROD -- 17-1/2" LONG
30	6	400096	SPRING RETAINER CASTING
31	3	400095	COMPRESSION SPRING
32	2	602211	1.250" O.D. X .774" I.D. X 1-1/16" BUSH.
33	4	101252	1/4-28 STRAIGHT GREASE ZERK
-	2	**	3/4-10 U-BOLT PLT. (NOT SHOWN)
-	4	101224	3/4" LOCK WASHER PLT. (NOT SHOWN)
-	4	101215	3/4-10 HEX NUT PLT. (NOT SHOWN)

REVISED: 2/26/01

** FOR 7 X 7 BAR, USE 3/4-10 X 7 X 9" U-BOLT -- PART # 101316.

** FOR 7 X 5 BAR, USE 3/4-10 X 7 X 6-1/2" U-BOLT -- PART # 101315.

RIGHT AUTO RESET COULTER ASSEMBLY



NOTE: ITEM # 4 TAKES TWO GREASE ZERKS.

REVISED: 2/26/01

RIGHT AUTO RESET COULTER ASSEMBLY COMPLETE - 900082R

REFERENCE #	QUANTITY	PART #	DESCRIPTION
1	1	801685	RIGHT MOUNTING BRACKET
2	1	801203	RIGHT SPINDLE TUBE & BUSHING ASSEM.
3	1	801686	SHANK MOUNTING BRACKET
4	1	801687	AUTO RESET BRACKET
5	2	400201	1/2 X 2 X 6-1/8" PIVOT PLATE
6	1	900036	AMMONIA KNIFE WITH SEALER
7	1	900037	SIDE MOUNT SHANK
8	2	101149	1/2-13 X 2" HEX BOLT PLT.
9	1	101153	1/2-13 X 4" HEX BOLT PLT.
10	1	101231	1/2" FLAT WASHER PLT.
11	7	101222	1/2" LOCK WASHER PLT.
12	3	101213	1/2-13 HEX NUT PLT.
13	2	101173	3/4-10 X 3" HEX BOLT PLT.
14	1	101422	3/4-10 X 3" HEX BOLT - GR 8 YELLOW ZINC
15	1	101175	3/4-10 X 4" HEX BOLT PLT.
16	2	101179	3/4-10 X 6" HEX BOLT PLT.
17	1	101180	3/4-10 X 7" HEX BOLT PLT.
18	4	101233	3/4" FLAT WASHER PLT.
19	4	101224	3/4" LOCK WASHER PLT.
20	8	101215	3/4-10 HEX NUT PLT.
21	4	101459	3/4-10 TOPLOCK NUT PLT.
22	2	101382	3/4-10 JAM NUT PLT.
23	1	101127	3/8-16 X 2" HEX BOLT PLT.
24	1	101455	3/8-16 TOPLOCK NUT PLT.
25	1	602212	Ø1.00 X 7-1/4" HINGE PIN
26	4	301193	1/2-20 X 1-1/4" WHIZ BOLT PLT.
27	1	400097	20" SMOOTH COULTER BLADE
28	1	801198	SPRING TENSION ROD - 15" LONG
29	2	801688	SPRING TENSION ROD - 17-1/2" LONG
30	6	400096	SPRING RETAINER CASTING
31	3	400095	COMPRESSION SPRING
32	2	602211	1.250" O.D. X .774" I.D. X 1-1/16" BUSH.
33	4	101252	1/4-28 STRAIGHT GREASE ZERK
-	2	**	3/4-10 U-BOLT PLT. (NOT SHOWN)
-	4	101224	3/4" LOCK WASHER PLT. (NOT SHOWN)
-	4	101215	3/4-10 HEX NUT PLT. (NOT SHOWN)

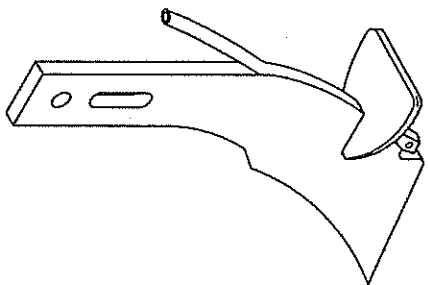
REVISED: 2/26/01

** FOR 7 X 7 BAR, USE 3/4-10 X 7 X 9" U-BOLT - PART # 101316.

** FOR 7 X 5 BAR, USE 3/4-10 X 7 X 6-1/2" U-BOLT - PART # 101315.

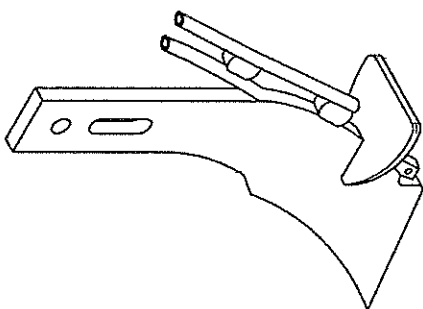
KNIFE OPTIONS

STANDARD KNIFE WITH
BEAVER TAIL SEALER



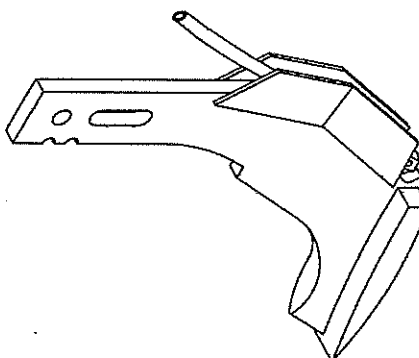
400099 3/8" NH3 TUBE
400191 1/2" NH3 TUBE

STANDARD KNIFE WITH
LIQUID TUBE.



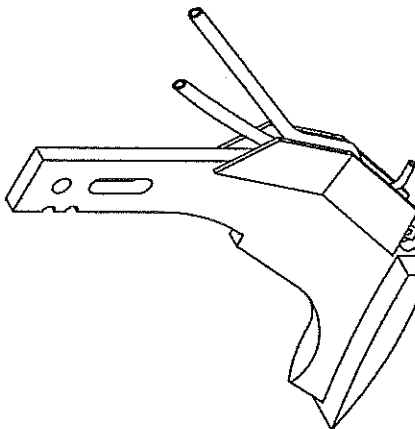
400190 3/8" NH3 TUBE
400192 1/2" NH3 TUBE

STANDARD MOLE KNIFE
ANHYDROUS ONLY



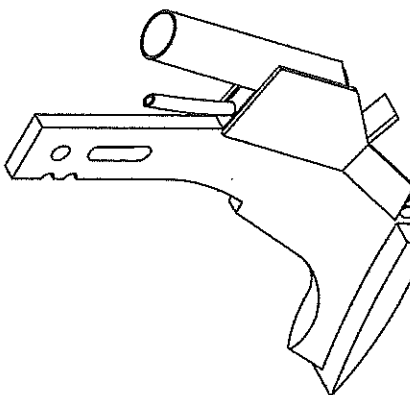
400197 3/8" NH3 TUBE
400195 1/2" NH3 TUBE

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

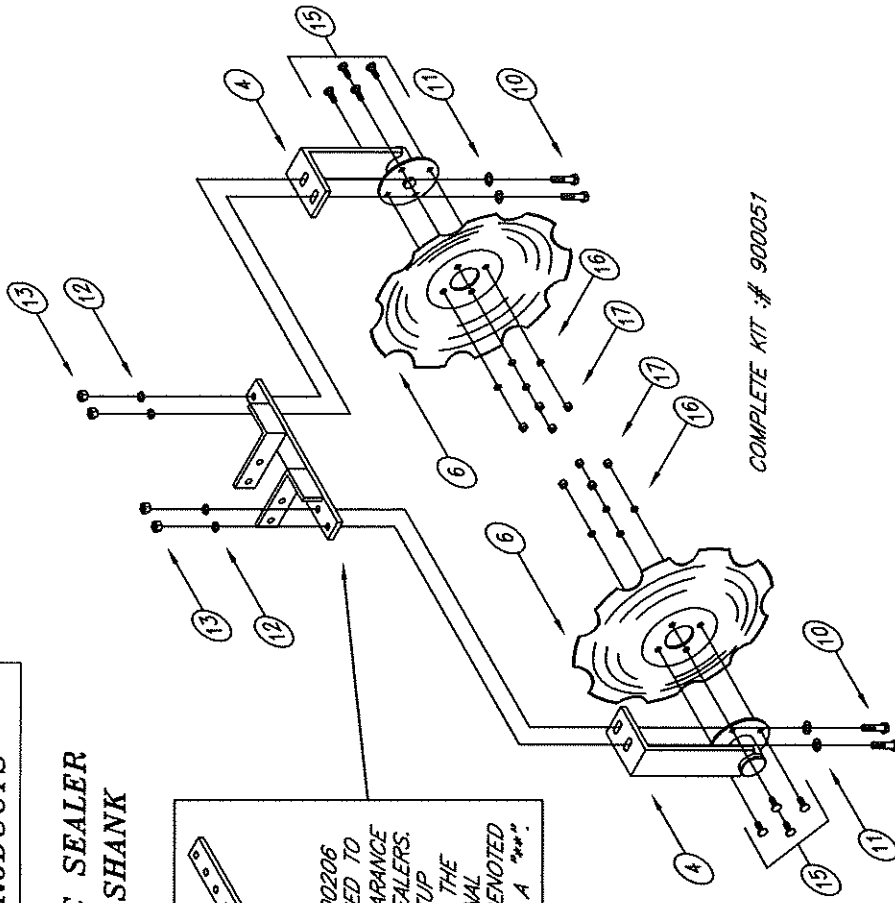


900100 3/8" NH3 TUBE
900101 1/2" NH3 TUBE



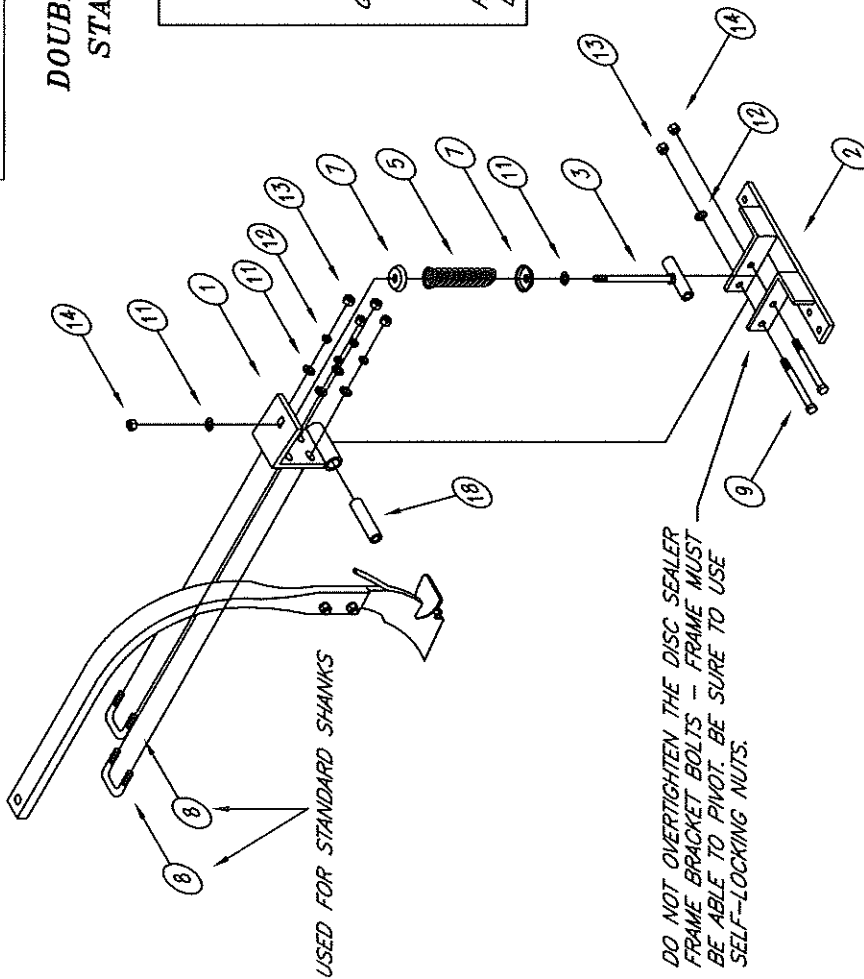
PROGRESSIVE
FARM PRODUCTS

DOUBLE DISC SEALER STANDARD SHANK



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

COMPLETE KIT # 900051



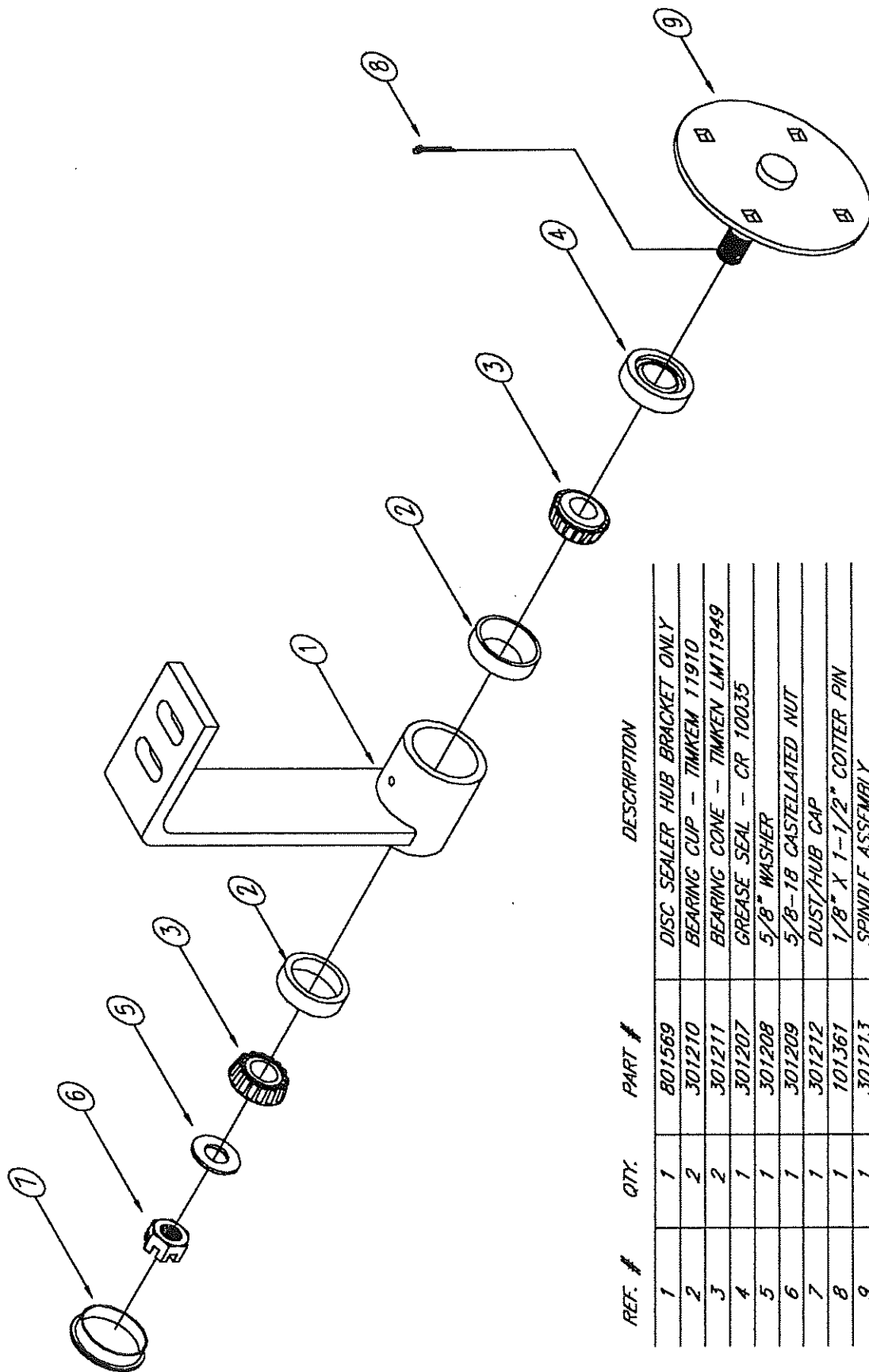
USED FOR STANDARD SHANKS

DO NOT OVERTIGHTEN THE DISC SEALER
FRAME BRACKET BOLTS - FRAME MUST
BE ABLE TO PIVOT. BE SURE TO USE
SELF-LOCKING NUTS.

REF. #	QTY.	PART #	DESCRIPTION
1	1	801694	SHANK MOUNTING BRACKET
2	1	801327	DISC SEALER FRAME BRACKET
3	1	801329	SPRING PIVOT BOLT & BUSHING ASSEMBLY
4	2	801330	SEALER ARM ASSEMBLY
5	1	400123	COMPRESSION SPRING
6	2	400107	18" NOTCHED DISC
7	2	101299	5/8" CUP WASHER
8	2	101355	1/2-13 X 2" X 2-1/2" U-BOLT
9	2	101156	1/2-13 X 5-1/2" HEX BOLT
10	4	101149	1/2-13 X 2" HEX BOLT
11	10	101231	1/2" FLAT WASHER

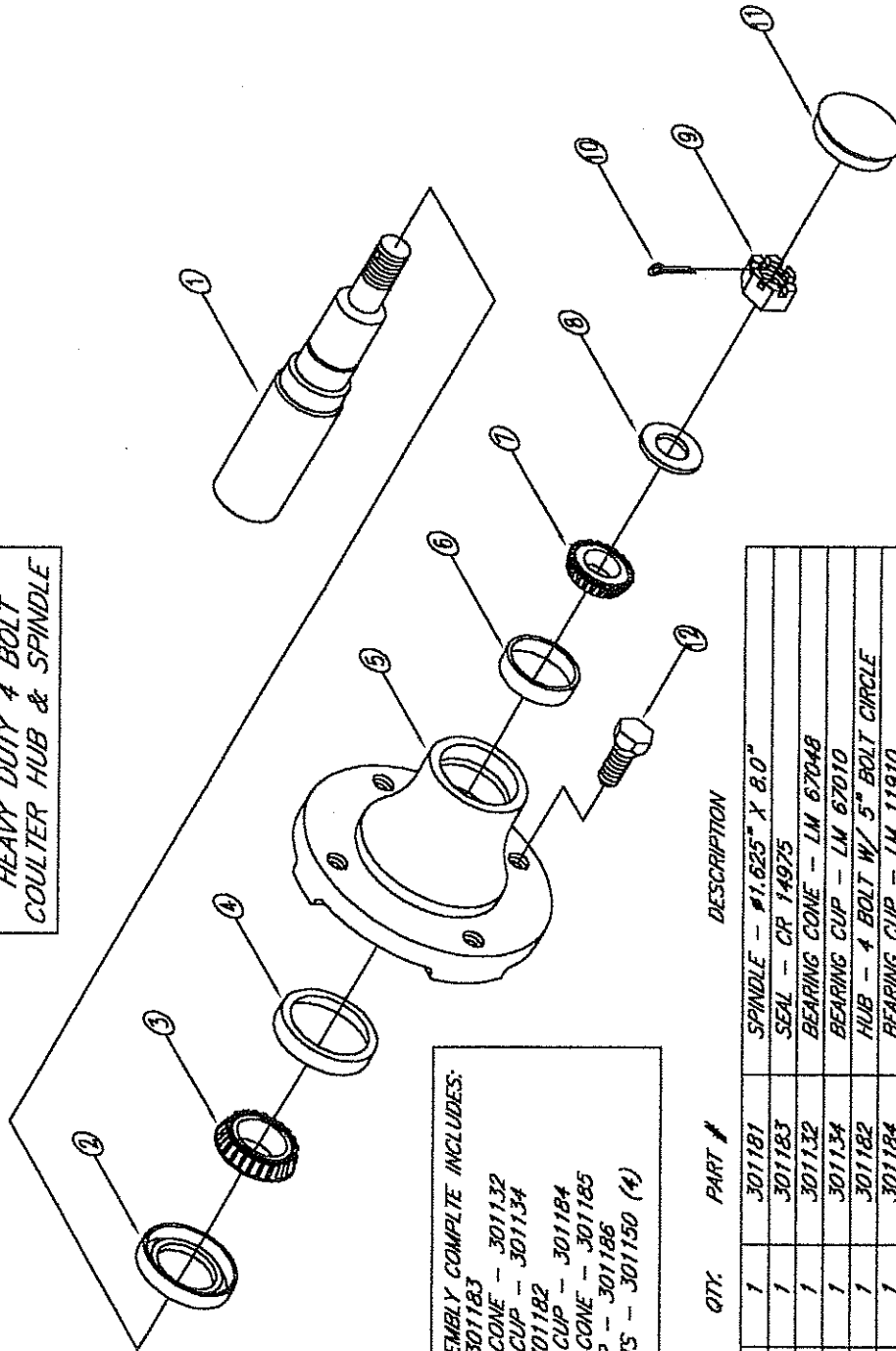
REF. #	QTY.	PART #	DESCRIPTION	REVISED: 1/22/01
12	9	101222	1/2" LOCK WASHER	
13	9	101213	1/2-13 HEX NUT	
14	2	101457	1/2-13 TOPLOCK NUT	
15	8	101357	3/8-16 X 1" CARRIAGE BOLT	
16	8	101220	3/8" LOCK WASHER	
17	8	101211	3/8-16 HEX NUT	
18	1	602214	1.000 O.D. X .524 I.D. X 4-1/8" BUSHING	
**	2	101150	1/2-13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

DISC SEALER HUB ASSEMBLY



REF. #	QTY.	PART #	DESCRIPTION
1	1	801569	DISC SEALER HUB BRACKET ONLY
2	2	301210	BEARING CUP - TIMKEN 11910
3	2	301211	BEARING CONE - TIMKEN LM11949
4	1	301207	GREASE SEAL - CR 10035
5	1	301208	5/8" WASHER
6	1	301209	5/8-18 CASTELLATED NUT
7	1	301212	DUST/HUB CAP
8	1	101361	1/8" X 1-1/2" COTTER PIN
9	1	301213	SPINDLE ASSEMBLY

HEAVY DUTY 4 BOLT COULTER HUB & SPINDLE



HUB ASSEMBLY COMPLETE 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

DESCRIPTION

REF. # QTY. PART #

1	1	301181	SPINDLE -- #1.625" 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