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FALLOW

MASTER 6-42

OPERATOR'S MANUAL

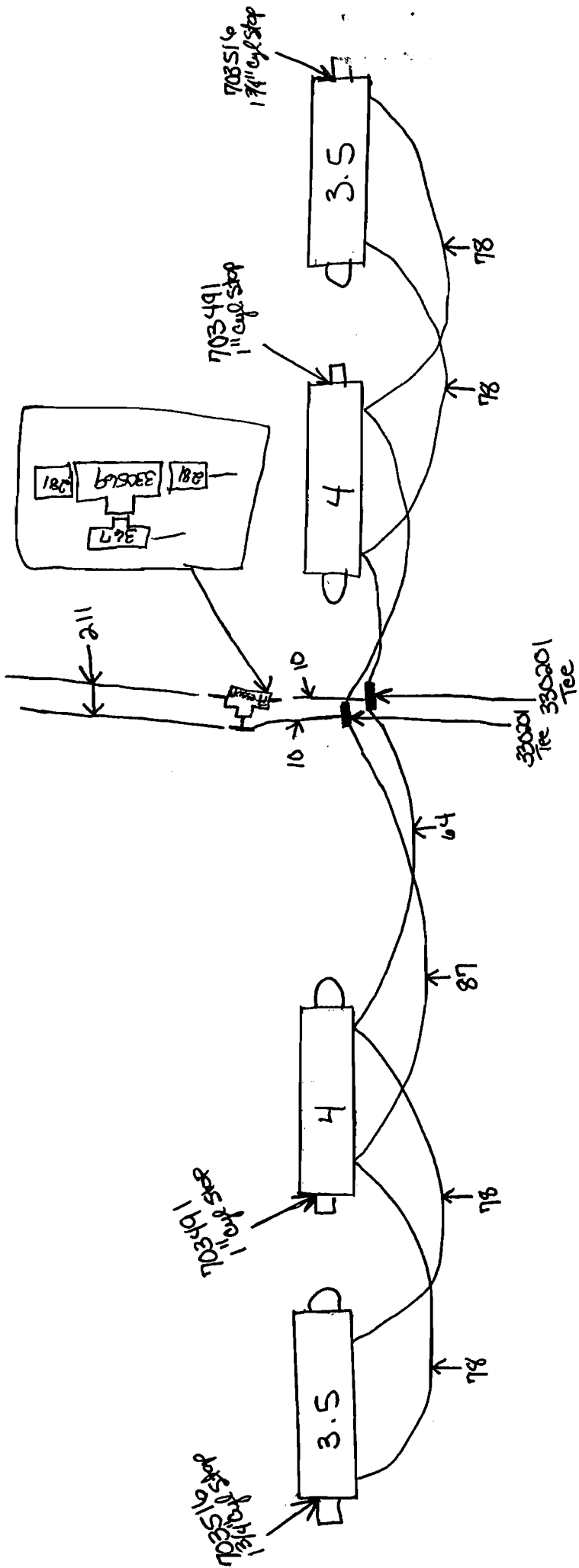
**ORTHMAN
MANUFACTURING
INCORPORATED**

STILL THE STRONGEST

**ORTHMAN MFG. INC.
75765 RD. 435
LEXINGTON, NE 68850**

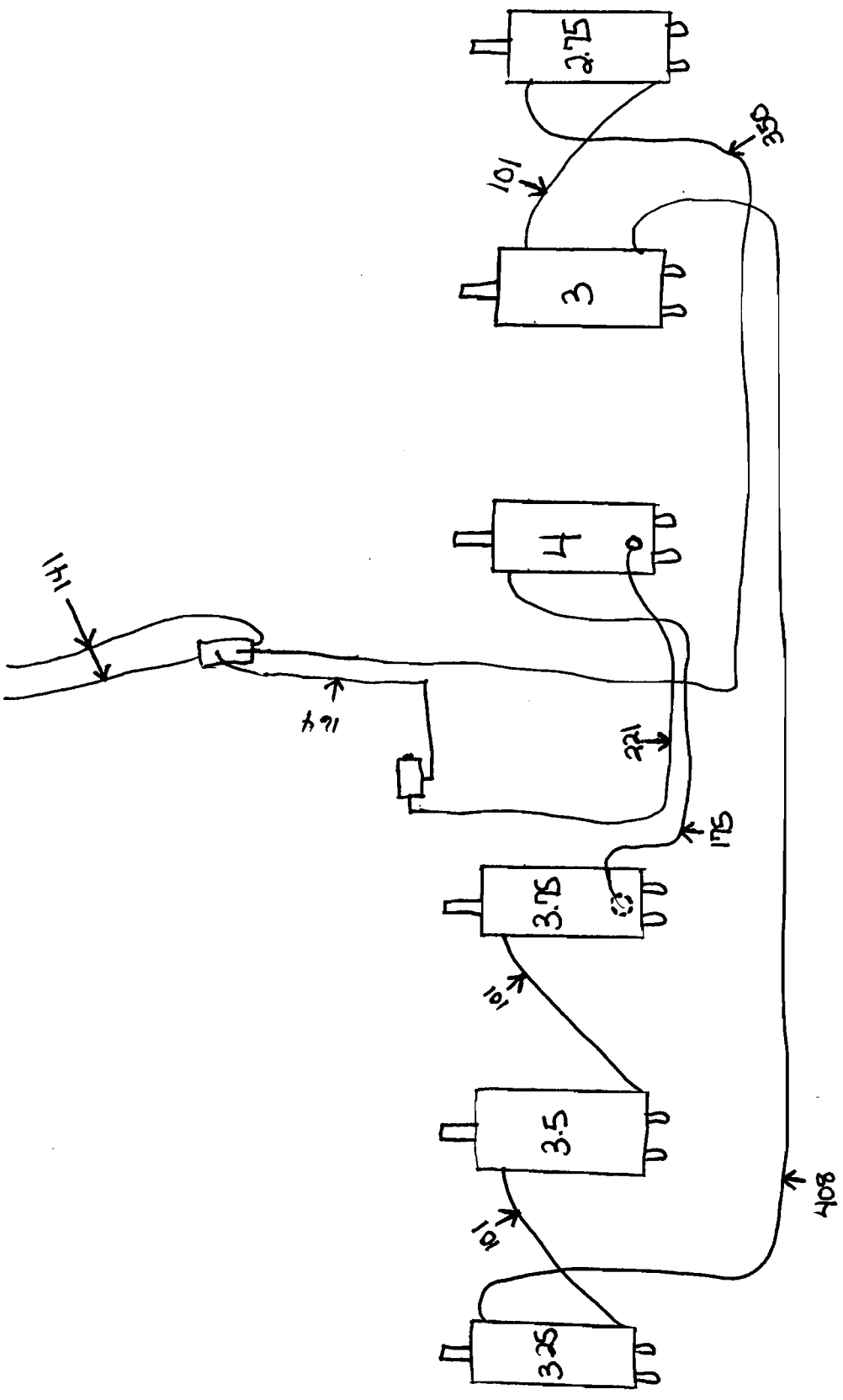
OM06-01-03

Lo-42
F.M.
Fold



- 330275 req. bellows on ram end of 3.5 cyl
- 330276 non-req. allow on base end of 3.5 cyl
- 330277 req tee on ram end of 4.0 cyl
- 330278 non-req tee on base end of 4.0 cyl
- Base hoses connect to the pressure side of Unfold protection valve

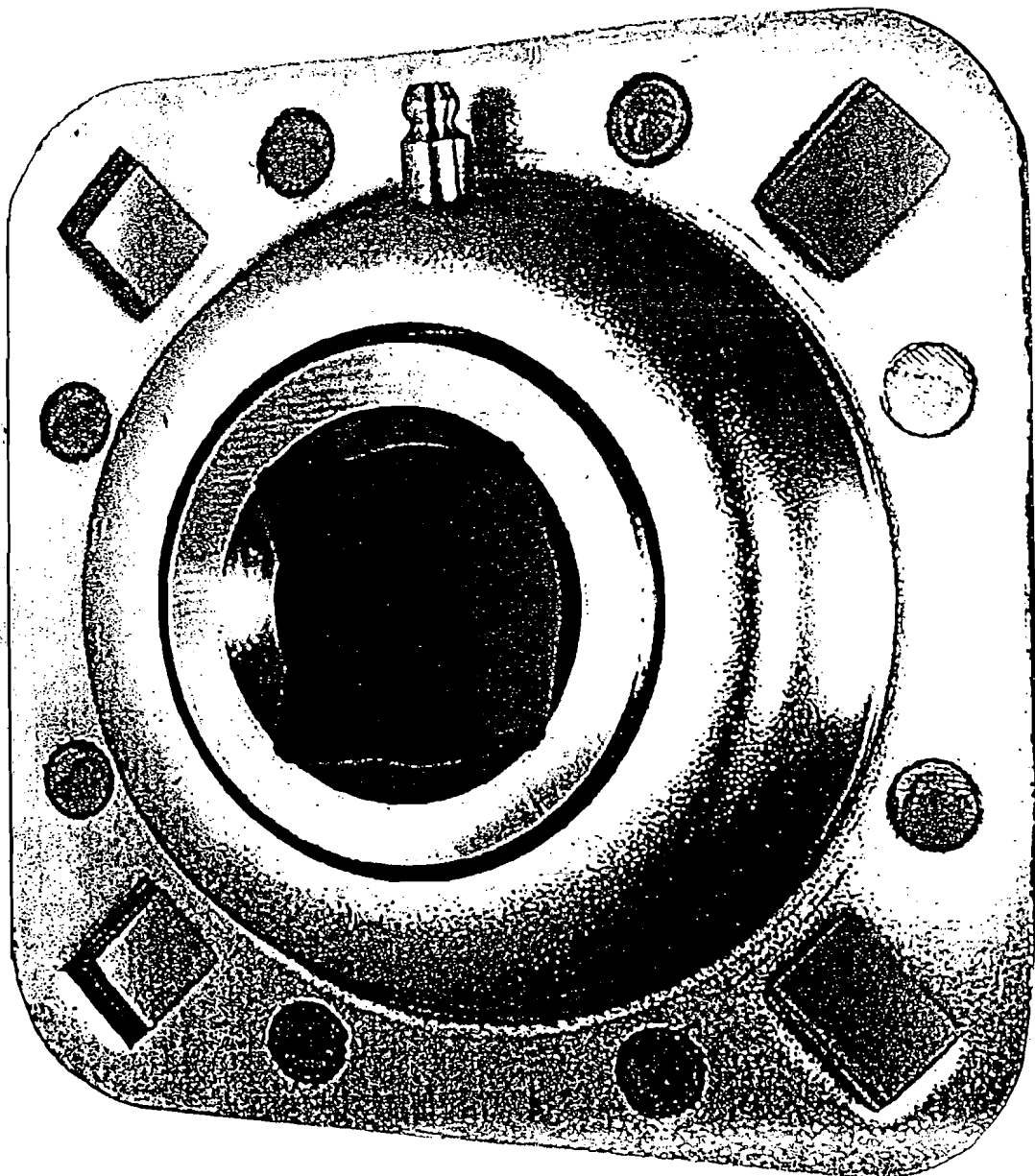
6-42
E.M.
Rift



- Side ports face smaller cyl. Use side ports except on base of 3.75 & 4 x 10 cyl then use front on 3.75 and back on 4 to keep fittings away from tire
- The 164" hose that runs from depth stroke control valve to the anti-creep valve needs to connect to port C1, the 350" hose that runs from ram end of 2.75 cyl connects to port C2 on same valve.



311007 Bearing These bearings have been greased at the factory. They do not need to be greased until sufficient usage. Overgreasing will cause triple lip seal failure.



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		ASSEMBLY INSTRUCTIONS
		LEVELING INSTRUCTIONS
		OPERATION AND MAINTENANCE INSTRUCTIONS

MOST ACCIDENTS CAN BE AVOIDED WHEN SAFETY RULES ARE FOLLOWED

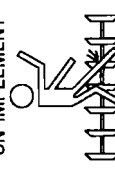
THE FOLLOWING RULES WILL HELP KEEP MACHINE-RELATED ACCIDENTS TO A MINIMUM:

1. READ THE INSTRUCTION AND PARTS MANUAL CAREFULLY BEFORE USING MACHINE.
2. NEVER WALK UNDER AN UNPINNED IMPLEMENT WING.
3. ALWAYS REQUIRE BYSTANDERS TO STAND CLEAR OF MACHINE WHILE FOLDING AND UNFOLDING WINGS OR WHILE RAISING OR LOWERING MACHINE.
4. NEVER ALLOW FEET TO BE UNDER SHOVELS.
5. DO NOT WALK ON FRAMES.
6. DO NOT ADJUST, LUBRICATE OR CLEAN MACHINE WITH TRACTOR RUNNING.
7. ALWAYS USE LOCK-UP PINS WHEN WINGS ARE IN FOLDED POSITION.
8. ALWAYS USE ROAD LOCK-OUT BRACKETS WHEN ROADING.
9. COMPLY WITH ALL STATE AND LOCAL TRANSPORTATION LAWS.
10. CHECK WHEEL BOLTS EVERY 100 HOURS.
11. DO NOT TRANSPORT MACHINE OVER 15 MILES PER HOUR.
12. NEVER ALLOW RIDERS ON IMPLEMENT.
13. DO NOT STAND OVER TONGUE WHEN HITCHING OR UNHITCHING.
14. NEVER REMOVE ANY LOCKING PINS UNLESS HYDRAULIC CYLINDERS AND LINES ARE FREE OF AIR AND FILL WITH HYDRAULIC OIL.
15. CHECK TIRE PRESSURE, AND INSPECT TIRES FOR CUTS OR WEAR DAILY. (USE RECOMMENDED PRESSURE ON TIRES.)
16. DO NOT REMOVE OR TAMPER WITH SAFETY DEVICES - HYDRAULIC RESTRICTORS, LOCK-OUT BRACKETS, UP ARMS, AND HYDRAULIC WING FOLD PROTECTION VALVES.
17. WATCH FOR AND AVOID PROTRUDING OBJECTS - SHARP TEETH, SHARP BLADES.
18. STAY CLEAR OF CRUSH POINTS - HITCH AREA, TINES, SHOVELS, HINGE AREAS.
19. FOLD AND UNFOLD WINGS ON LEVEL GROUND.
20. INSPECT PINS FOR WEAR - REPLACE WORN PARTS.
21. INSPECT HYDRAULIC SYSTEM FOR WEAR - REPLACE WORN OR BROKEN PARTS, FRAYED HOSES AND LEAKY FITTINGS.

SAFETY PRECAUTIONS

! WARNING

WATCH FOR SHARP OBJECTS ON IMPLEMENT

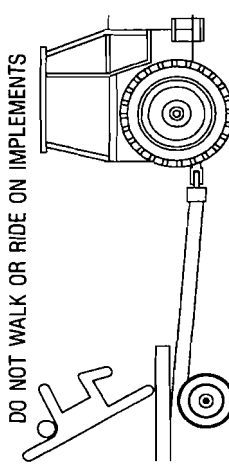


SERIOUS INJURY CAN OCCUR

300004

! WARNING

DO NOT WALK OR RIDE ON IMPLEMENTS




SERIOUS INJURY OR DEATH CAN OCCUR

300088

! WARNING

HYDRAULIC FLUID UNDER PRESSURE

- WEAR EYE PROTECTION WHEN WORKING ON HYDRAULIC LINES —
- DO NOT STOP FLUID LEAK WITH PARTS OF BODY —



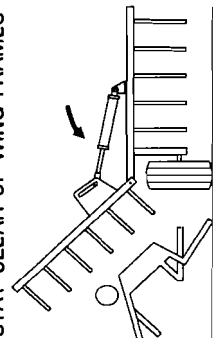
SERIOUS INJURY OR LOSS OF LIMB CAN OCCUR

300086

! DANGER

SERIOUS INJURY OR DEATH CAN OCCUR

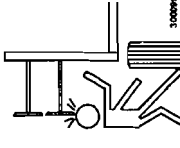
- STAY CLEAR OF WING FRAMES —



300085

! WARNING

STAY CLEAR OF SHARP OVERHEAD OBJECTS



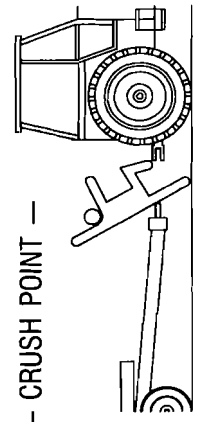
SERIOUS INJURY CAN OCCUR

300004

! WARNING

SERIOUS INJURY OR DEATH CAN OCCUR

- CRUSH POINT —

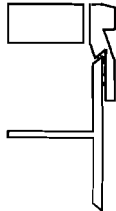


STAND CLEAR

300087

! WARNING

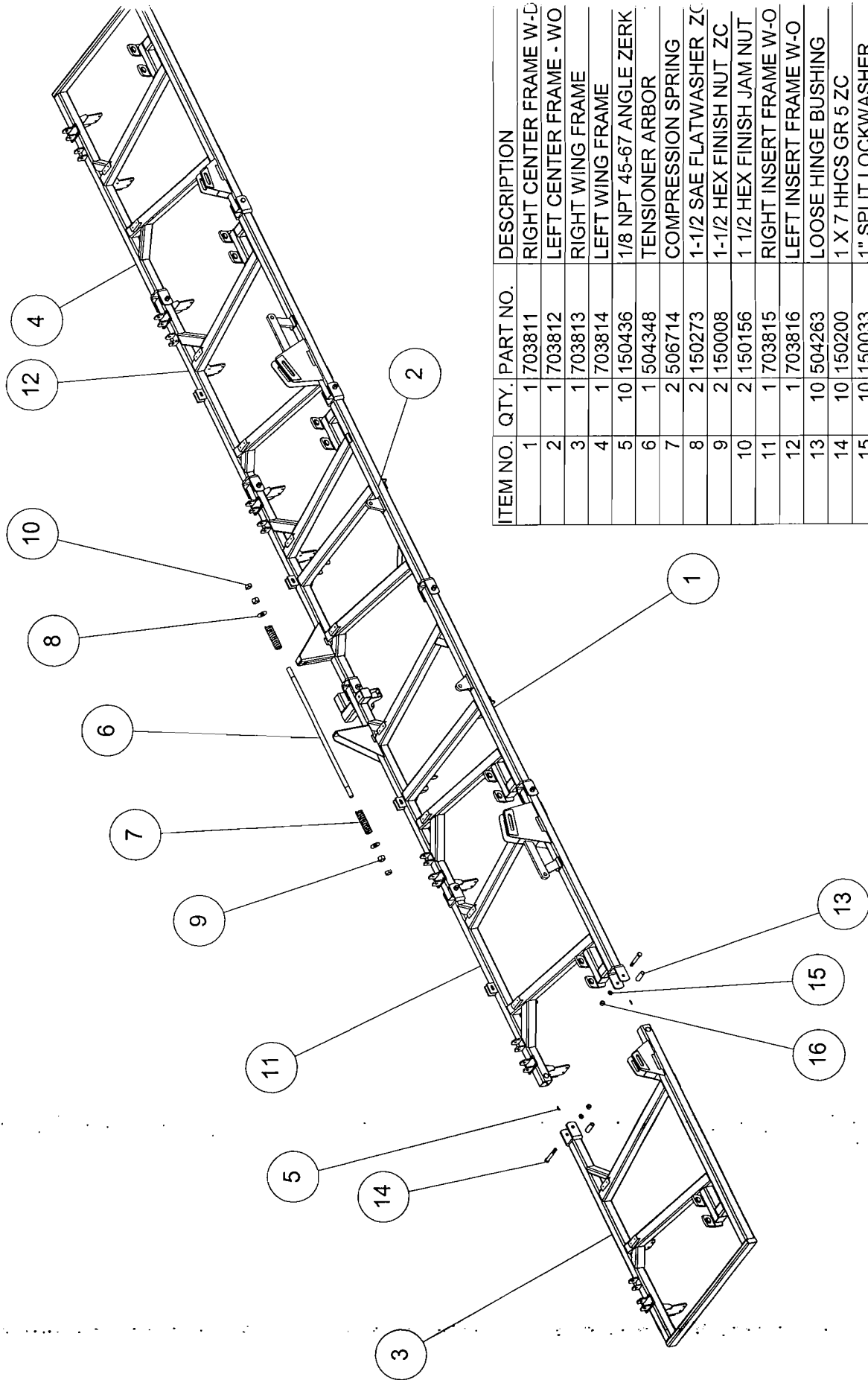
- KEEP FEET CLEAR —



SERIOUS INJURY CAN OCCUR

300102

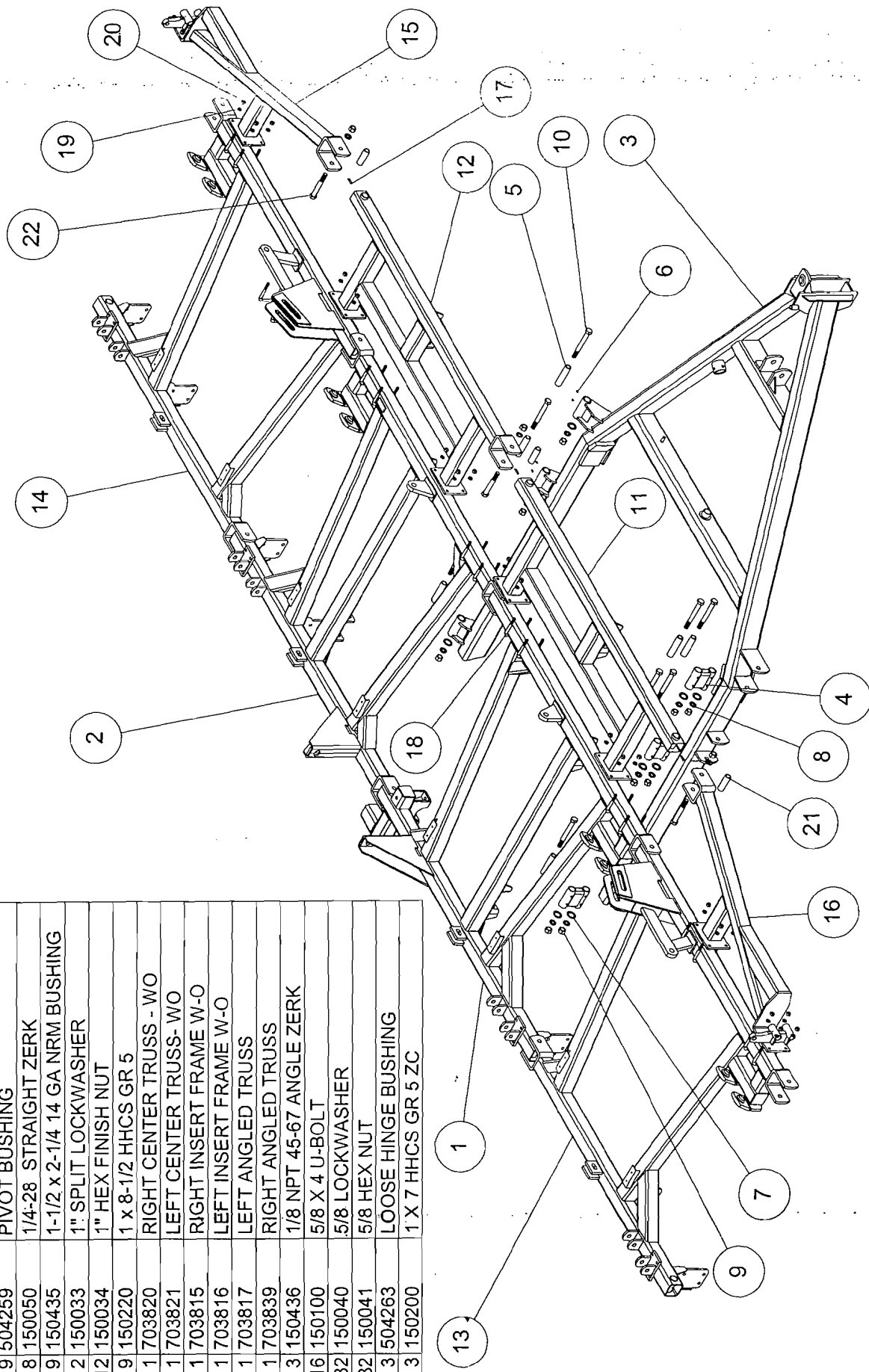
SAFETY DECALS



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	1703811	RIGHT CENTER FRAME W-D
2	1	1703812	LEFT CENTER FRAME - WO
3	1	1703813	RIGHT WING FRAME
4	1	1703814	LEFT WING FRAME
5	10	150436	1/8 NPT 45-67 ANGLE ZERK
6	1	1504348	TENSIONER ARBOR
7	2	1506714	COMPRESSION SPRING
8	2	150273	1-1/2 SAE FLATWASHER ZC
9	2	150008	1-1/2 HEX FINISH NUT ZC
10	2	150156	1 1/2 HEX FINISH JAM NUT
11	1	1703815	RIGHT INSERT FRAME W-O
12	1	1703816	LEFT INSERT FRAME W-O
13	10	1504263	LOOSE HINGE BUSHING
14	10	150200	1 X 7 HHCS GR 5 ZC
15	10	150033	1" SPLIT LOCKWASHER
16	10	150034	1" HEX FINISH NUT

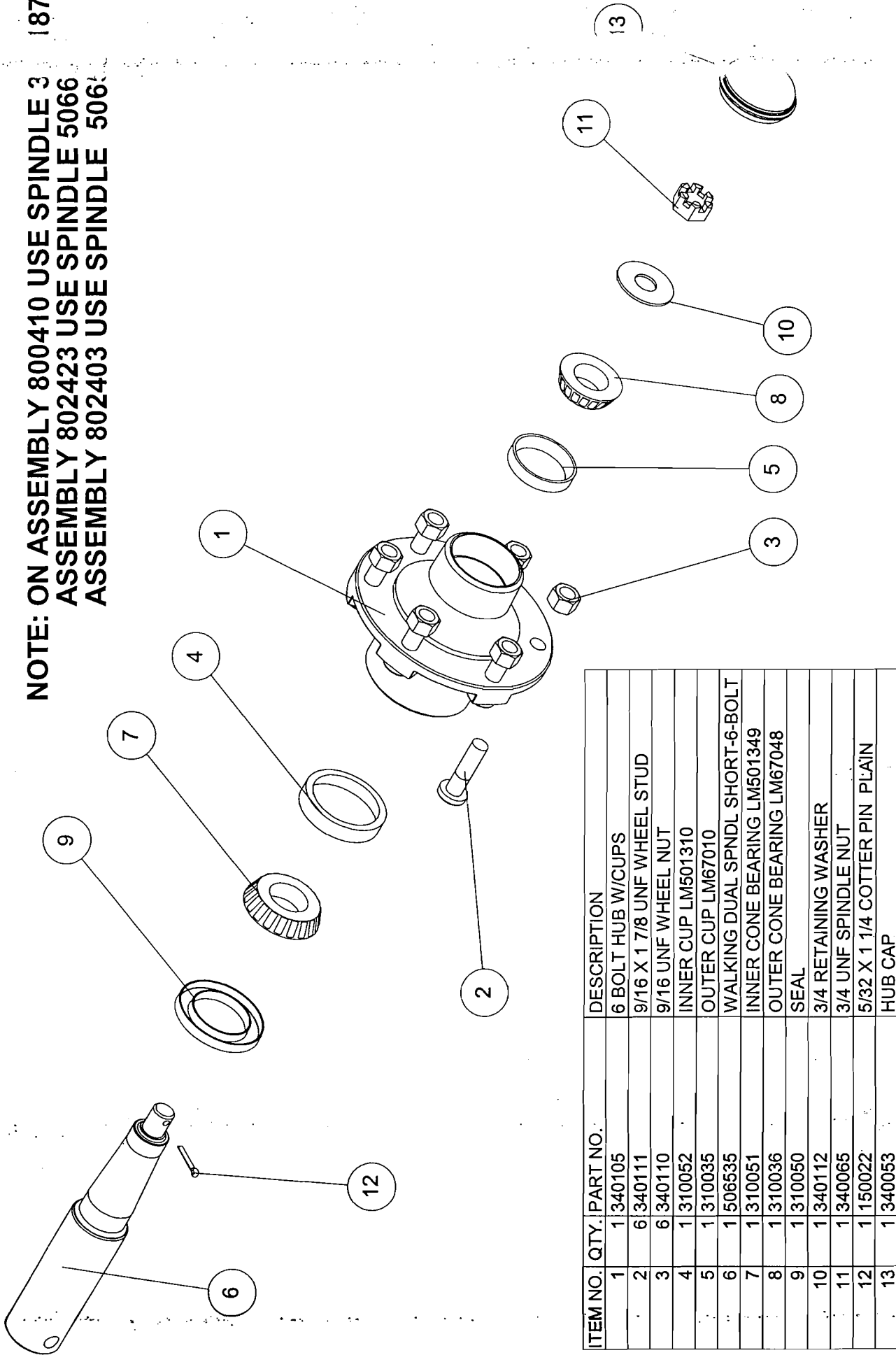
FRAME ASSEMBLY

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703811	RIGHT CENTER FRAME W-D
2	1	703812	LEFT CENTER FRAME - WO
3	1	703822	TONGUE
4	3	703013	TONGUE PIVOT BLOCK
5	9	504259	PIVOT BUSHING
6	18	150050	1/4-28 STRAIGHT ZERK
7	9	150435	1-1/2 x 2-1/4 14 GA NRM BUSHING
8	12	150033	1" SPLIT LOCKWASHER
9	12	150034	1" HEX FINISH NUT
10	9	150220	1 x 8-1/2 HHCS GR 5
11	1	703820	RIGHT CENTER TRUSS - WO
12	1	703821	LEFT CENTER TRUSS- WO
13	1	703815	RIGHT INSERT FRAME W-O
14	1	703816	LEFT INSERT FRAME W-O
15	1	703817	LEFT ANGLED TRUSS
16	1	703839	RIGHT ANGLED TRUSS
17	3	150436	1/8 NPT 45-67 ANGLE ZERK
18	16	150100	5/8 X 4 U-BOLT
19	32	150040	5/8 LOCKWASHER
20	32	150041	5/8 HEX NUT
21	3	504263	LOOSE HINGE BUSHING
22	3	150200	1 X 7 HHCS GR 5 ZC



TONGUE AND TRUSS ASSEMBLY

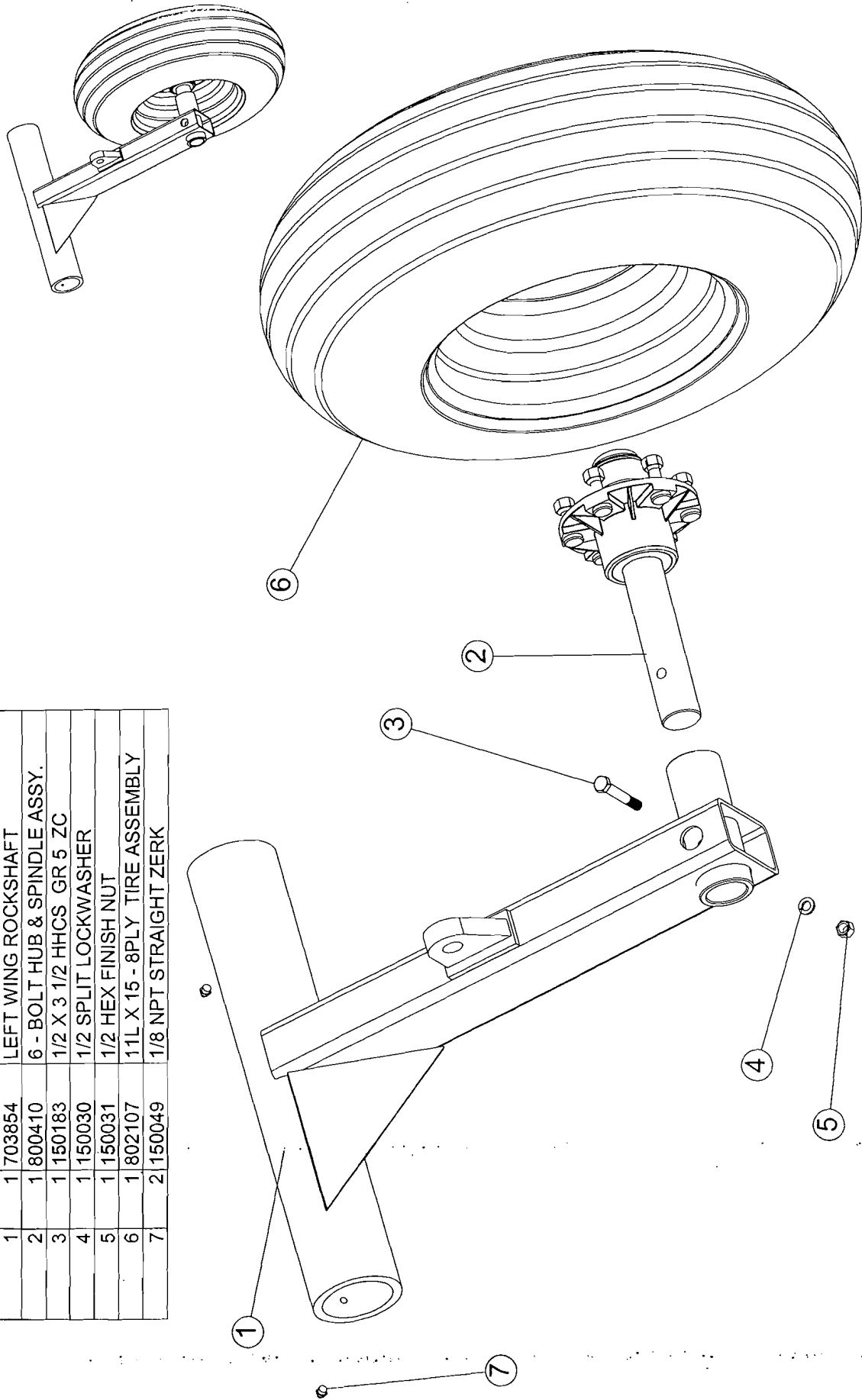
NOTE: ON ASSEMBLY 800410 USE SPINDLE 3
 ASSEMBLY 802423 USE SPINDLE 5066
 ASSEMBLY 802403 USE SPINDLE 5066



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	340105	6 BOLT HUB W/CUPS
2	6	340111	9/16 X 1 7/8 UNF WHEEL STUD
3	6	340110	9/16 UNF WHEEL NUT
4	1	310052	INNER CUP LM501310
5	1	310035	OUTER CUP LM67010
6	1	506535	WALKING DUAL SPNDL SHORT-6-BOLT
7	1	310051	INNER CONE BEARING LM501349
8	1	310036	OUTER CONE BEARING LM67048
9	1	310050	SEAL
10	1	340112	3/4 RETAINING WASHER
11	1	340065	3/4 UNF SPINDLE NUT
12	1	150022	5/32 X 1 1/4 COTTER PIN PLAIN
13	1	340053	HUB CAP

HUB & SPINDLE ASSEMBLY 6 BOLT

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703854	LEFT WING ROCKSHAFT
2	1	800410	6 - BOLT HUB & SPINDLE ASSY.
3	1	150183	1/2 X 3 1/2 HHCS GR 5 ZC
4	1	150030	1/2 SPLIT LOCKWASHER
5	1	150031	1/2 HEX FINISH NUT
6	1	802107	11L X 15 - 8PLY TIRE ASSEMBLY
7	2	150049	1/8 NPT STRAIGHT ZERK

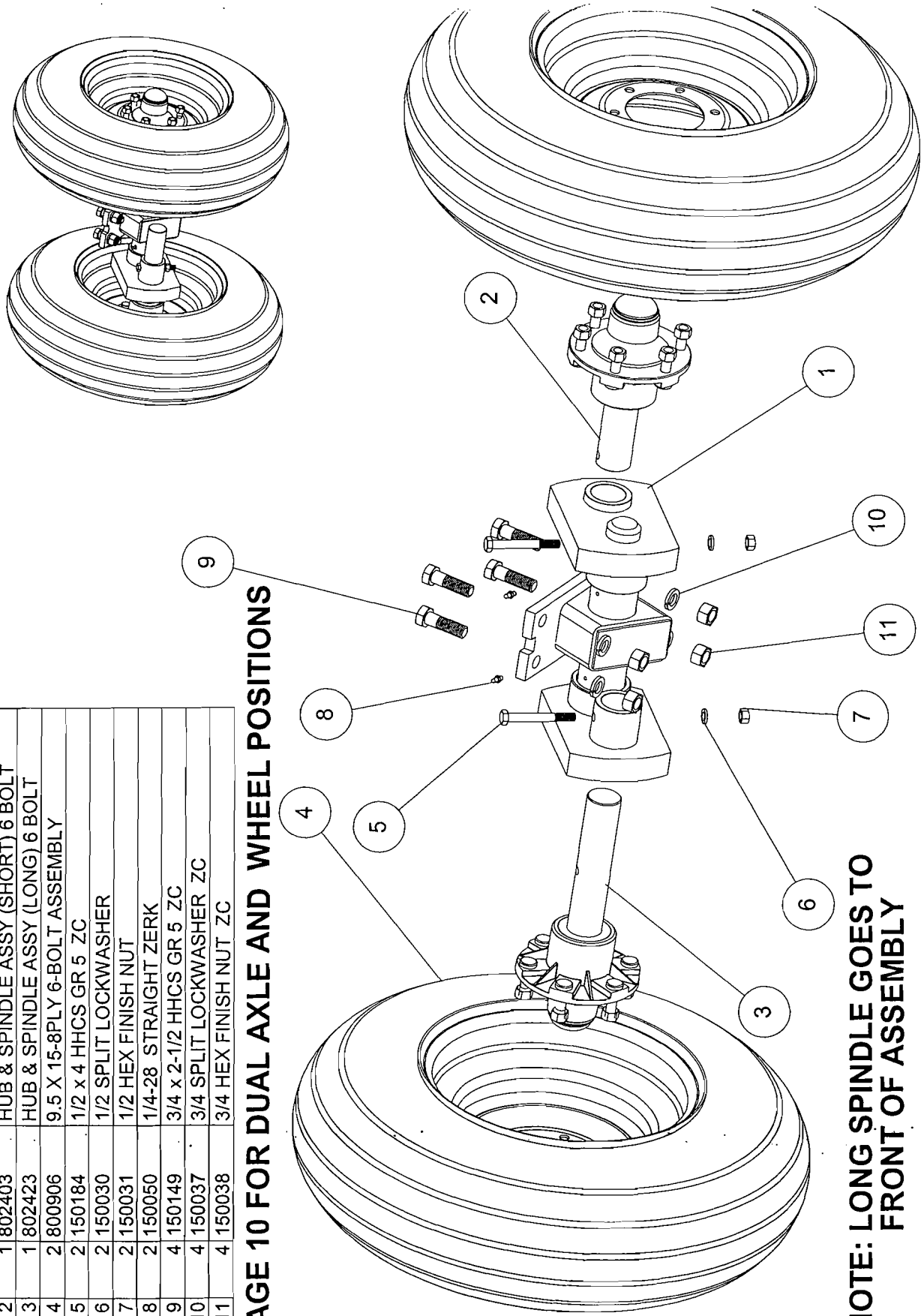


NOTE: USE ROCKSHAFT 703855 ON RIGHT WING AND RIGHT INSERT WING ROCKSHAFT KIT (901410)

LEFT WING ROCKSHAFT KIT (901409)

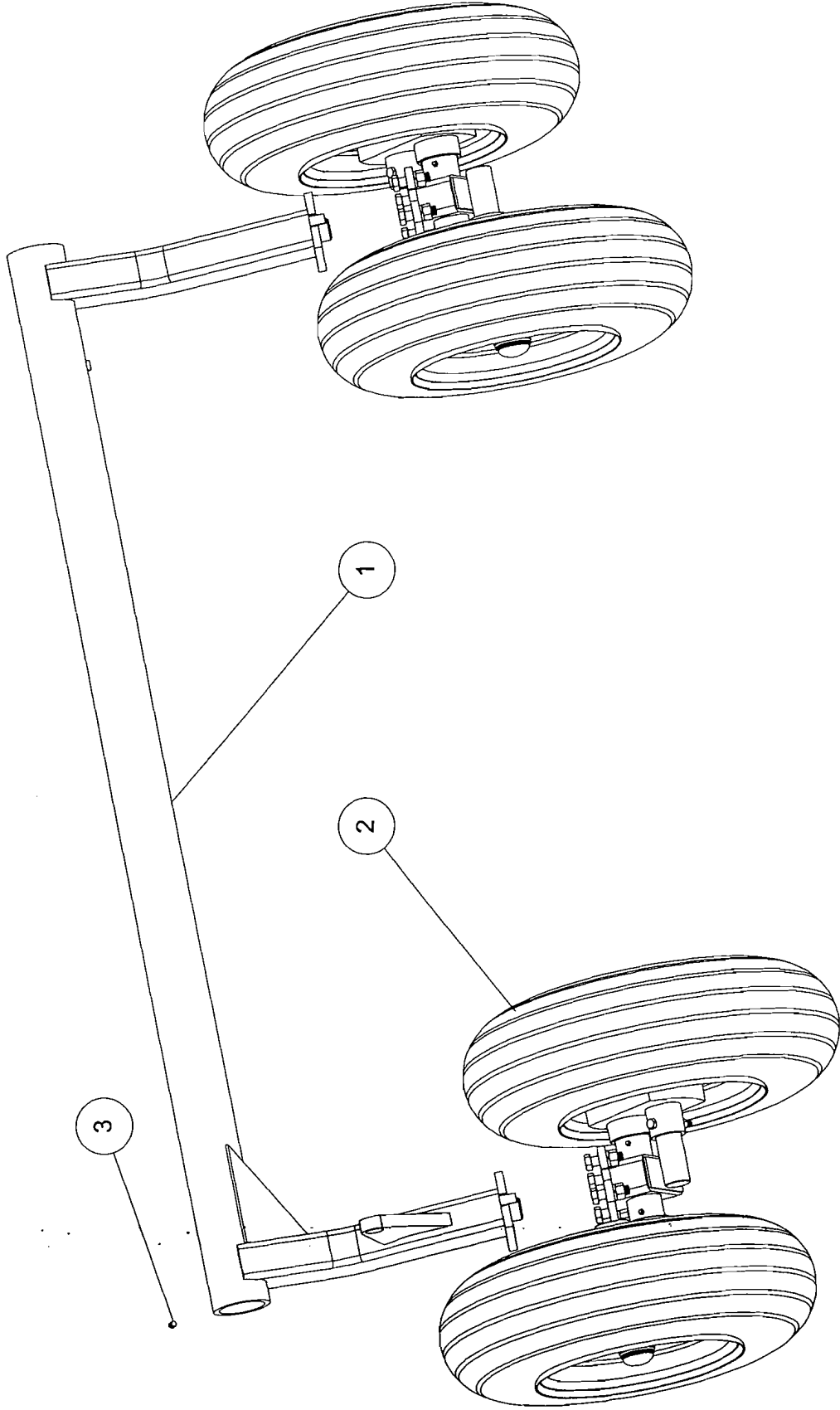
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	1703786	WALKING DUAL AXLE 6 BOLT W.A.
2	1	1802403	HUB & SPINDLE ASSY (SHORT) 6 BOLT
3	1	1802423	HUB & SPINDLE ASSY (LONG) 6 BOLT
4	2	1800906	9.5 X 15-8PLY 6-BOLT ASSEMBLY
5	2	150184	1/2 x 4 HHCS GR 5 ZC
6	2	150030	1/2 SPLIT LOCKWASHER
7	2	150031	1/2 HEX FINISH NUT
8	2	150050	1/4-28 STRAIGHT ZERK
9	4	150149	3/4 x 2-1/2 HHCS GR 5 ZC
10	4	150037	3/4 SPLIT LOCKWASHER ZC
11	4	150038	3/4 HEX FINISH NUT ZC

SEE PAGE 10 FOR DUAL AXLE AND WHEEL POSITIONS

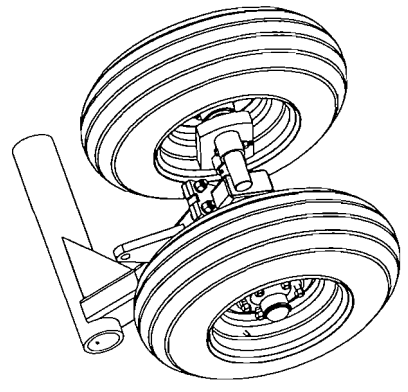
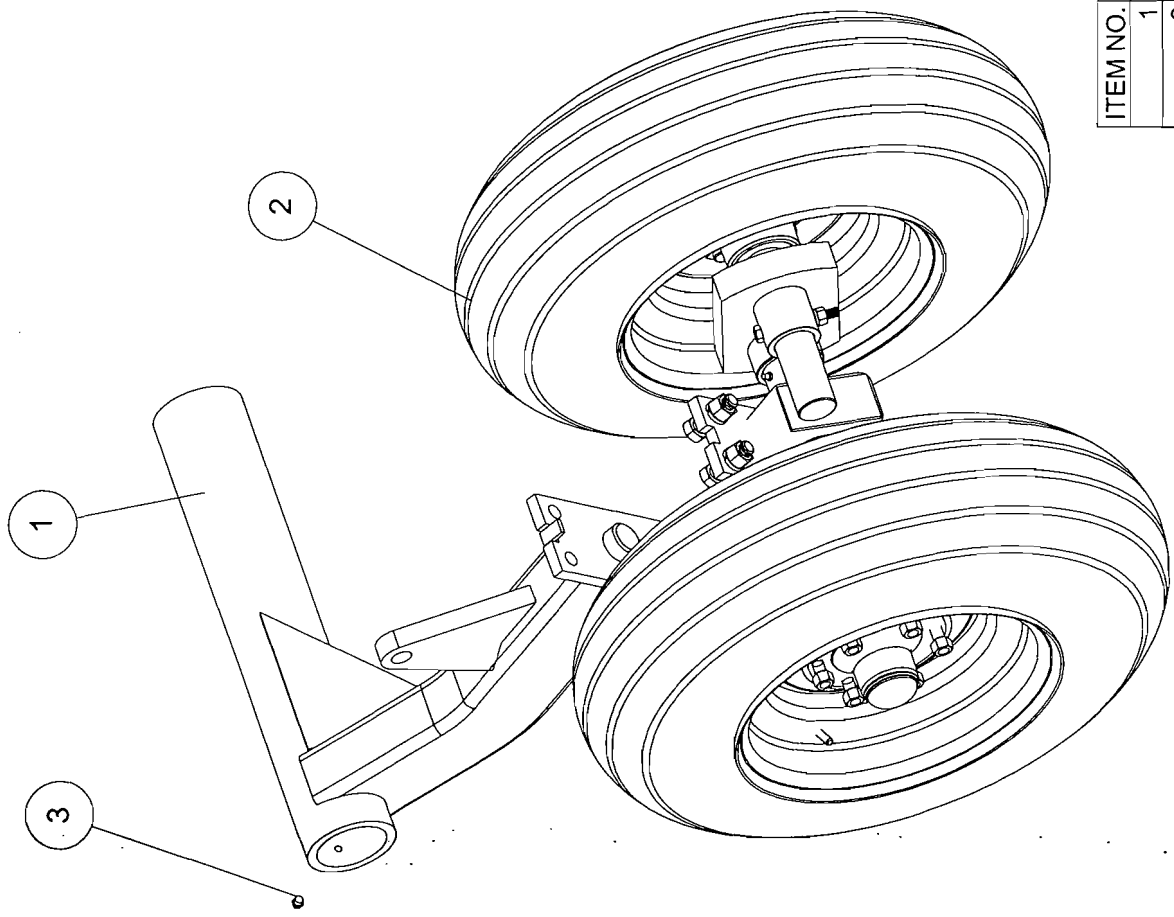


NOTE: LONG SPINDLE GOES TO FRONT OF ASSEMBLY

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	1703819	RIGHT CENTER ROCKSHAFT W.O.
2	1	1901340	DUAL AXLE AND WHEEL ASSY.
3	1	1150049	1/8 NPT STRAIGHT ZERK



DUAL RIGHT CENTER ROCKSHAFT KIT (901411)

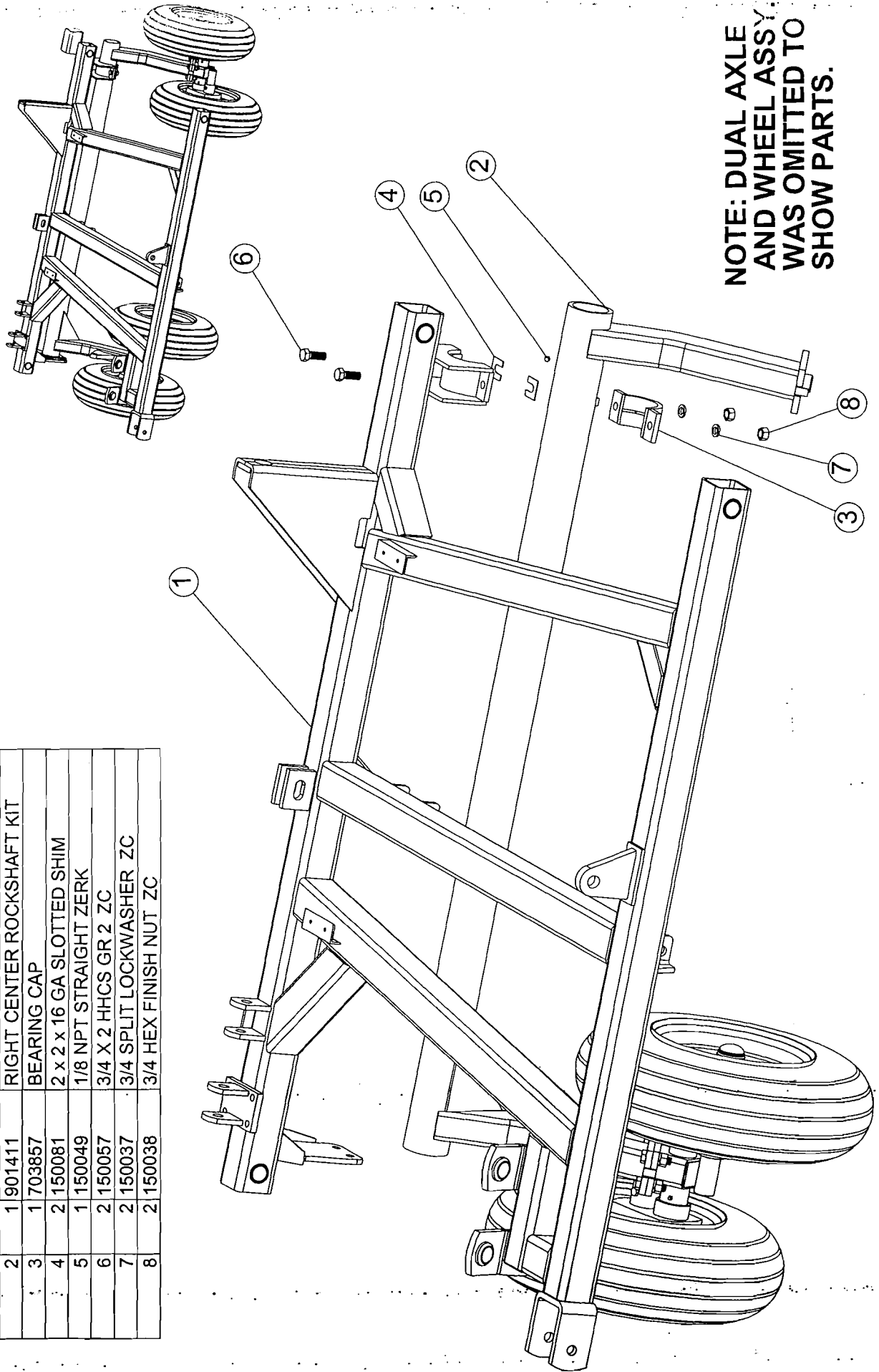


**NOTE: FOR LEFT ROCKSHAFT ASSY.
(901412) USE ROCKSHAFT 703232.**

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703232	RT INSERT CENTER ROCKSHAFT
2	1	901340	DUAL AXLE AND WHEEL ASSY.
3	2	150049	1/8 NPT STRAIGHT ZERK

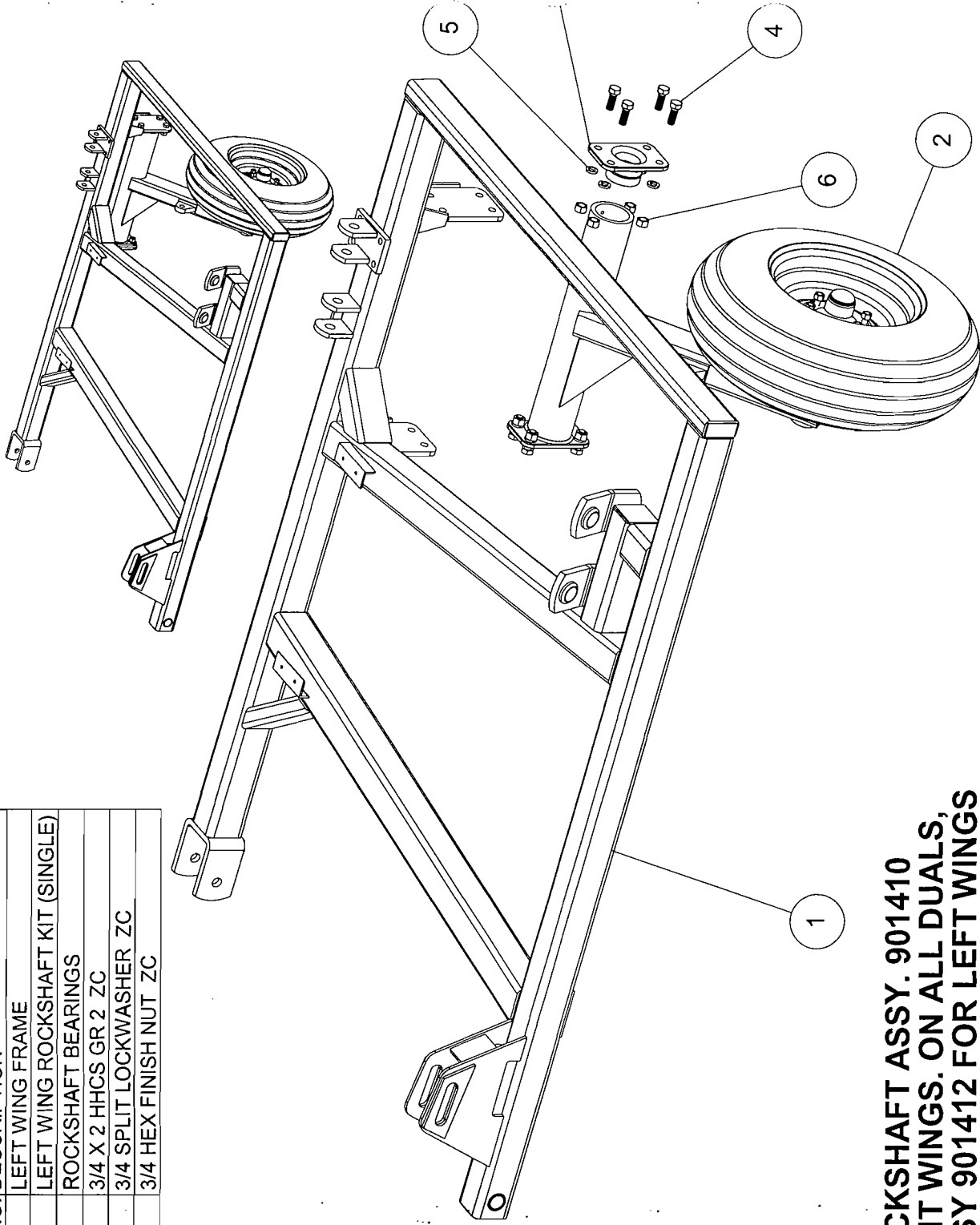
DUAL RIGHT ROCKSHAFT ASSY. (901413)

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	1703811	RIGHT CENTER FRAME W-D
2	1	1901411	RIGHT CENTER ROCKSHAFT KIT
3	1	1703857	BEARING CAP
4	2	150081	2 x 2 x 16 GA SLOTTED SHIM
5	1	150049	1/8 NPT STRAIGHT ZERK
6	2	150057	3/4 X 2 HHCS GR 2 ZC
7	2	150037	3/4 SPLIT LOCKWASHER ZC
8	2	150038	3/4 HEX FINISH NUT ZC



RIGHT CENTER ROCKSHAFT ASSY. KIT PLACEMENT

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703814	LEFT WING FRAME
2	1	901409	LEFT WING ROCKSHAFT KIT (SINGLE)
3	2	300043	ROCKSHAFT BEARINGS
4	8	150057	3/4 X 2 HHCS GR 2 ZC
5	8	150037	3/4 SPLIT LOCKWASHER ZC
6	8	150038	3/4 HEX FINISH NUT ZC

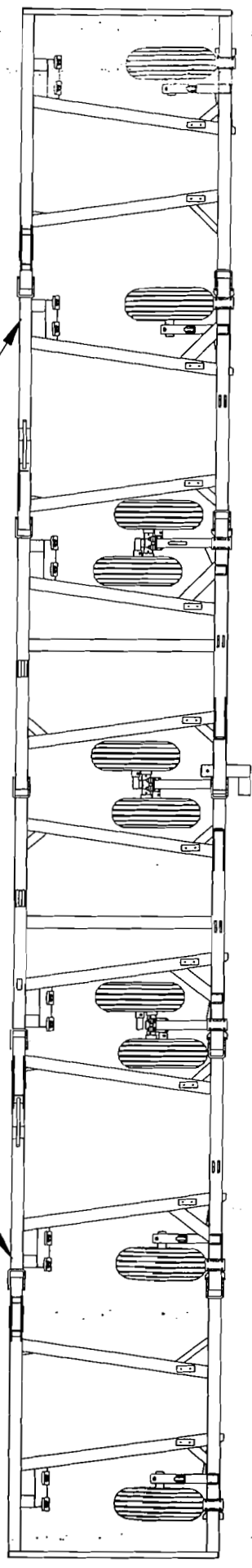


NOTE: USE ROCKSHAFT ASSY. 901410 ON RIGHT WINGS. ON ALL DUALS, USE ASSY 901412 FOR LEFT WINGS AND ASSY 901413 FOR RIGHT WINGS

ROCKSHAFT ASSEMBLY PLACEMENT (WING)

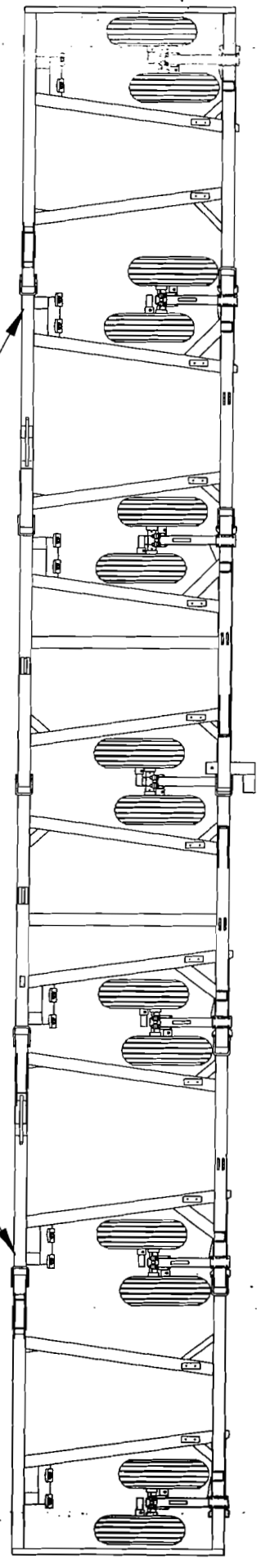
FRONT OF IMPLEMENT

CENTER DUALS



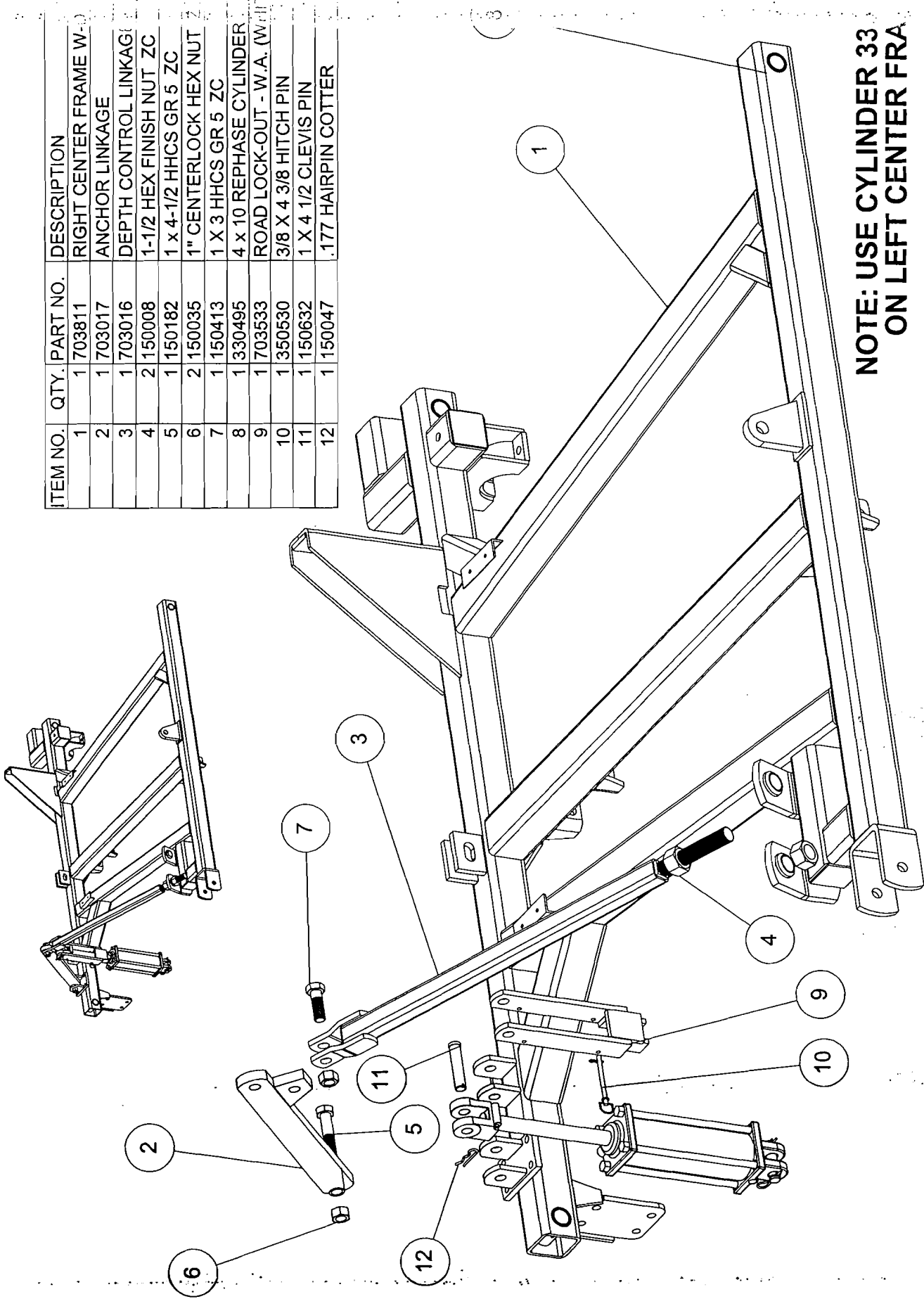
FRONT OF IMPLEMENT

ALL DUALS



DUAL AXLE AND WHEEL POSITIONS

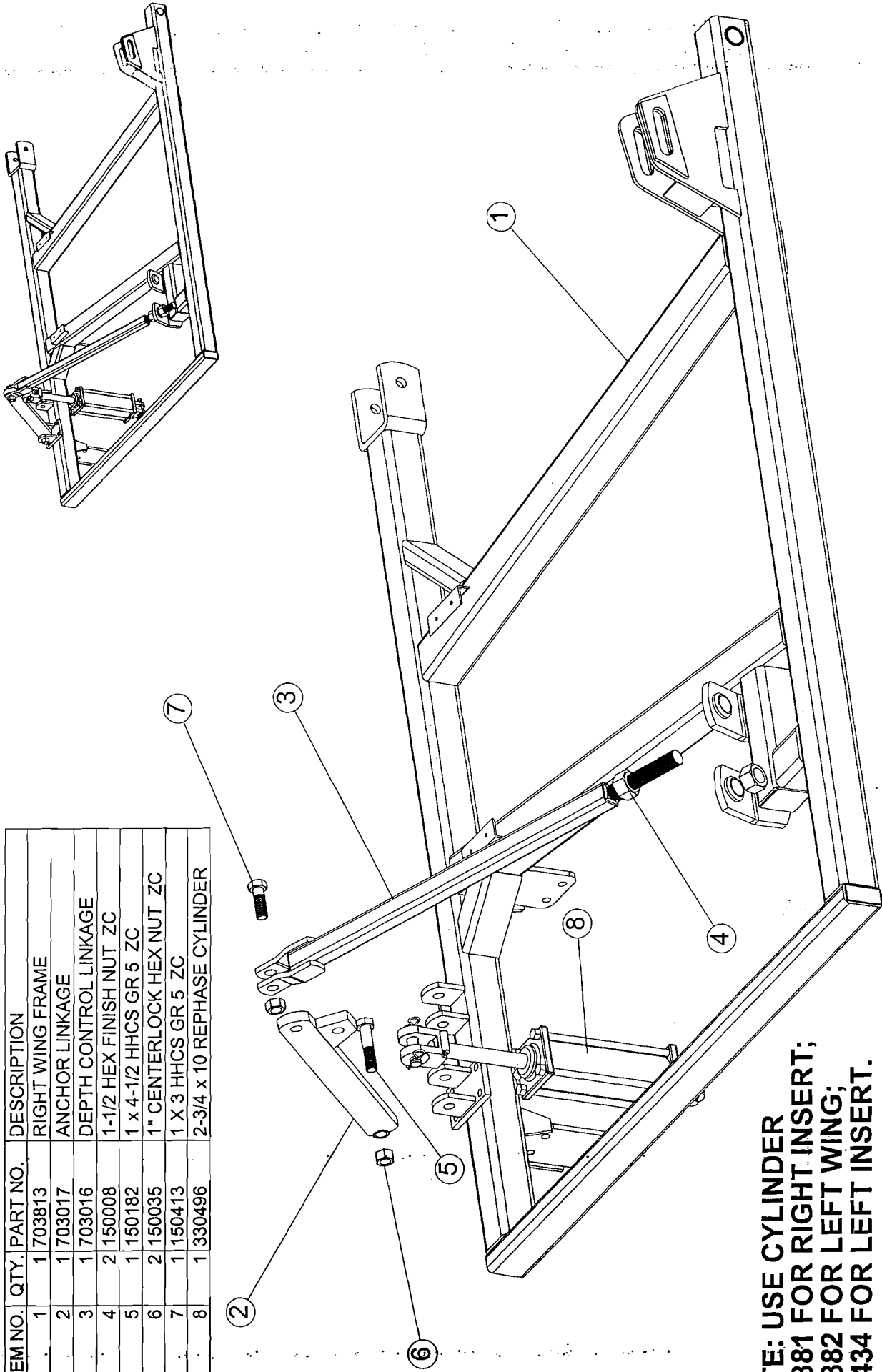
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703811	RIGHT CENTER FRAME W/O
2	1	703017	ANCHOR LINKAGE
3	1	703016	DEPTH CONTROL LINKAGE
4	2	150008	1-1/2 HEX FINISH NUT ZC
5	1	150182	1 X 4-1/2 HHCS GR 5 ZC
6	2	150035	1" CENTERLOCK HEX NUT Z
7	1	150413	1 X 3 HHCS GR 5 ZC
8	1	330495	4 X 10 REPHASE CYLINDER
9	1	703533	ROAD LOCK-OUT - W.A. (W/HT 3)
10	1	350530	3/8 X 4 3/8 HITCH PIN
11	1	150632	1 X 4 1/2 CLEVIS PIN
12	1	150047	.177 HAIRPIN COTTER



NOTE: USE CYLINDER 33 5
ON LEFT CENTER FRA S

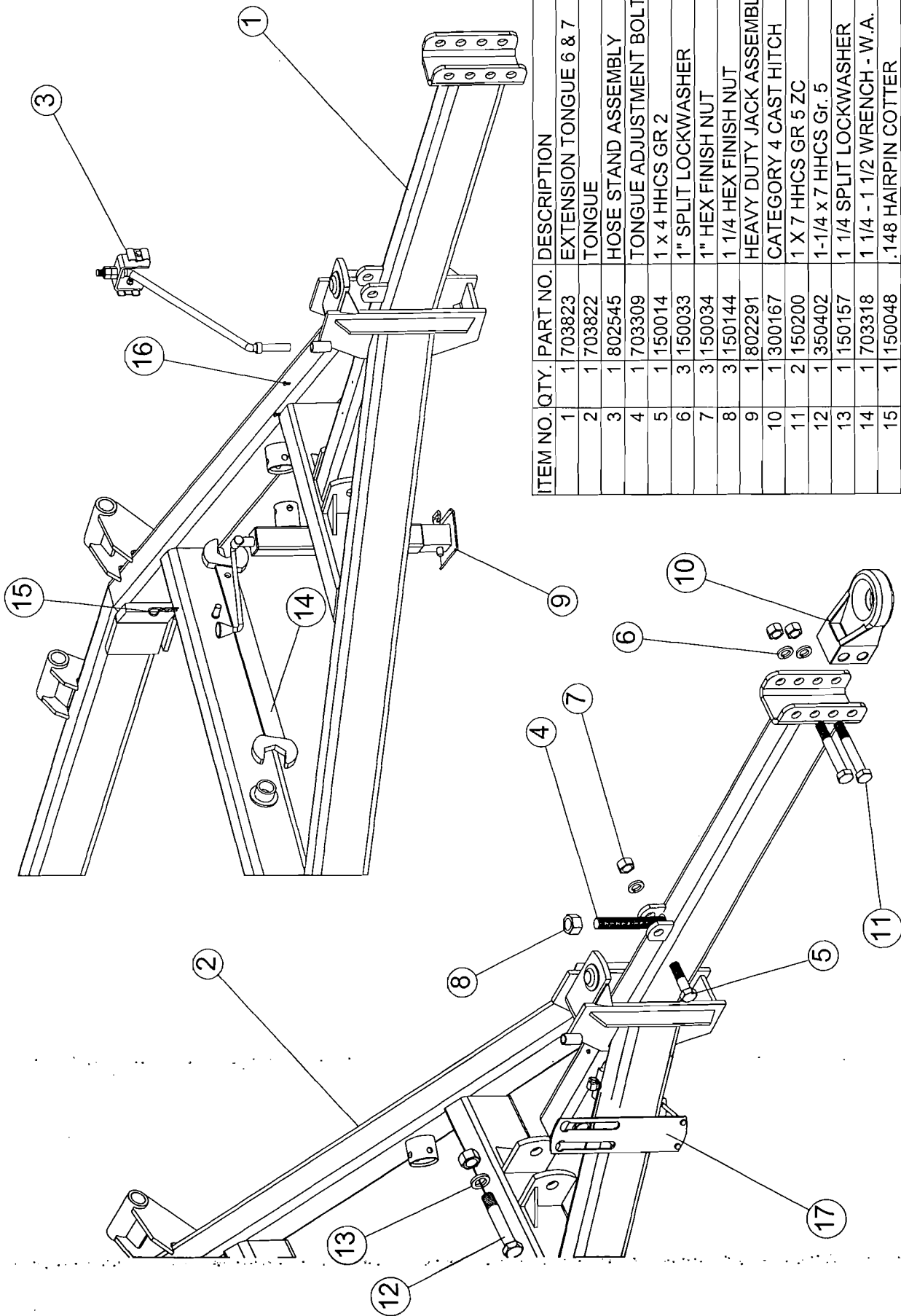
DEPTH CONTROL ASSEMBLY (CENTER)

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703813	RIGHT WING FRAME
2	1	703017	ANCHOR LINKAGE
3	1	703016	DEPTH CONTROL LINKAGE
4	2	150008	1-1/2 HEX FINISH NUT_ZC
5	1	150182	1 x 4-1/2 HHCS GR 5_ZC
6	2	150035	1" CENTERLOCK HEX NUT_ZC
7	1	150413	1 X3 HHCS GR 5_ZC
8	1	330496	2-3/4 x 10 REPHASE CYLINDER



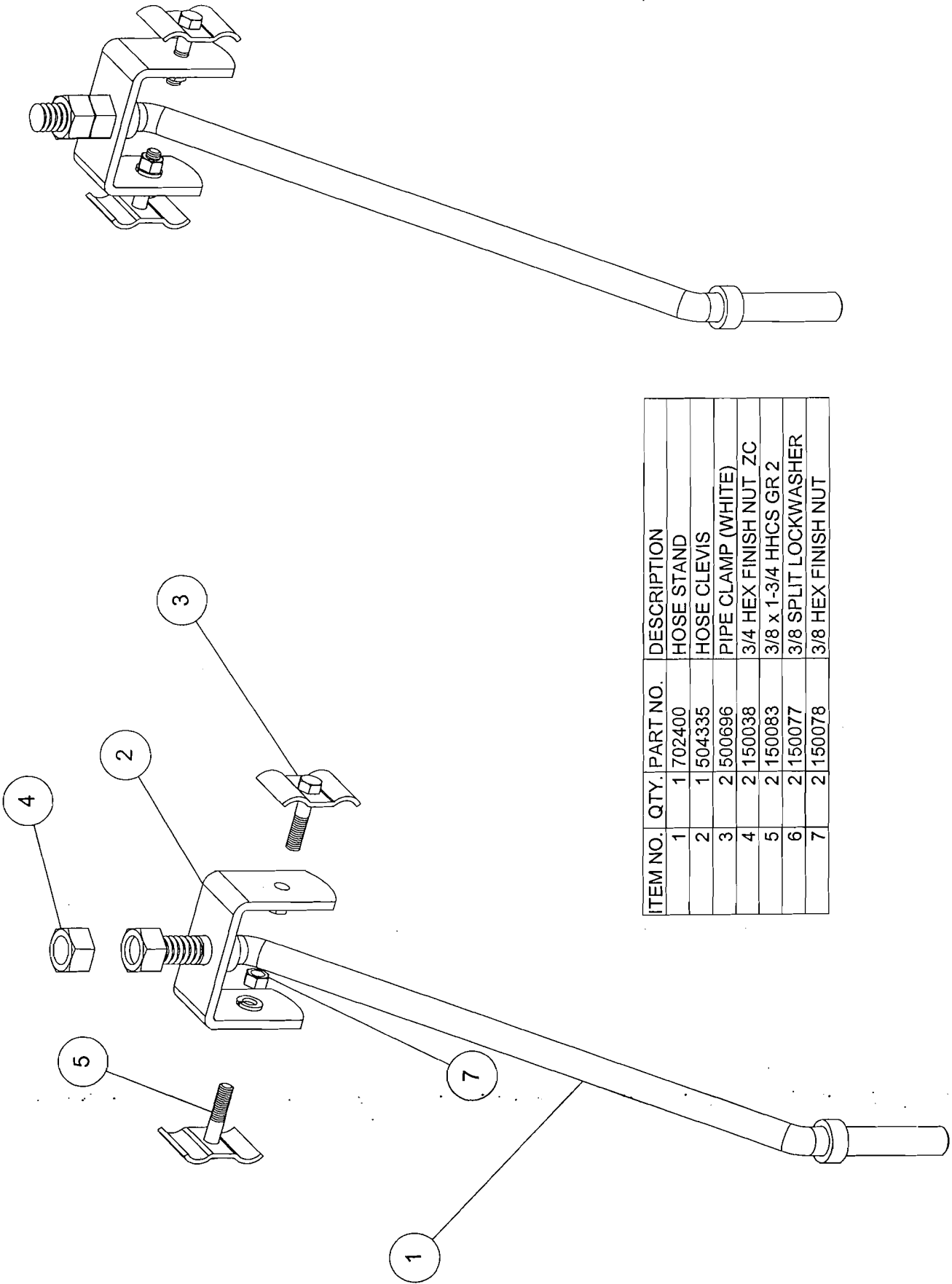
**NOTE: USE CYLINDER
330381 FOR RIGHT INSERT;
330382 FOR LEFT WING;
330434 FOR LEFT INSERT.**

DEPTH CONTROL ASSEMBLY (INSERT/WING)



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703823	EXTENSION TONGUE 6 & 7
2	1	703822	TONGUE
3	1	802545	HOSE STAND ASSEMBLY
4	1	703309	TONGUE ADJUSTMENT BOLT
5	1	150014	1 x 4 HHCS GR 2
6	3	150033	1" SPLIT LOCKWASHER
7	3	150034	1" HEX FINISH NUT
8	3	150144	1/4 HEX FINISH NUT
9	1	802291	HEAVY DUTY JACK ASSEMBLY
10	1	300167	CATEGORY 4 CAST HITCH
11	2	150200	1 X 7 HHCS GR 5 ZC
12	1	350402	1-1/4 x 7 HHCS Gr. 5
13	1	150157	1/4 SPLIT LOCKWASHER
14	1	703318	1/4 - 1/2 WRENCH - W.A.
15	1	150048	148 HAIRPIN COTTER
16	2	150492	1/4 X 1/2 SELF-TAPPING SCREW
17	1	900994	ANTICREEP VALVE

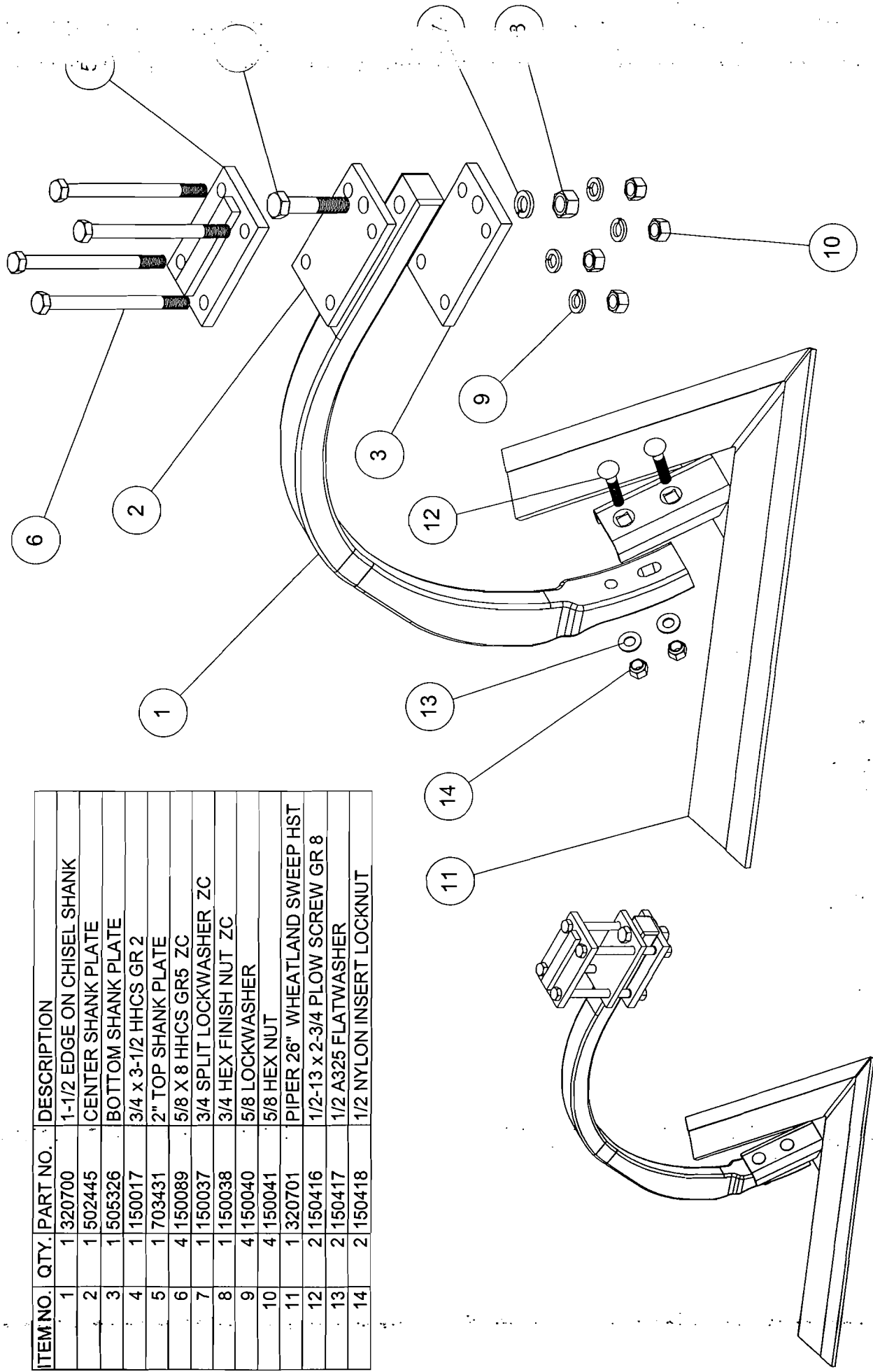
TONGUE ASSEMBLY



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	1702400	HOSE STAND
2	1	1504335	HOSE CLEVIS
3	2	500696	PIPE CLAMP (WHITE)
4	2	150038	3/4 HEX FINISH NUT ZC
5	2	150083	3/8 x 1-3/4 HHCS GR 2
6	2	150077	3/8 SPLIT LOCKWASHER
7	2	150078	3/8 HEX FINISH NUT

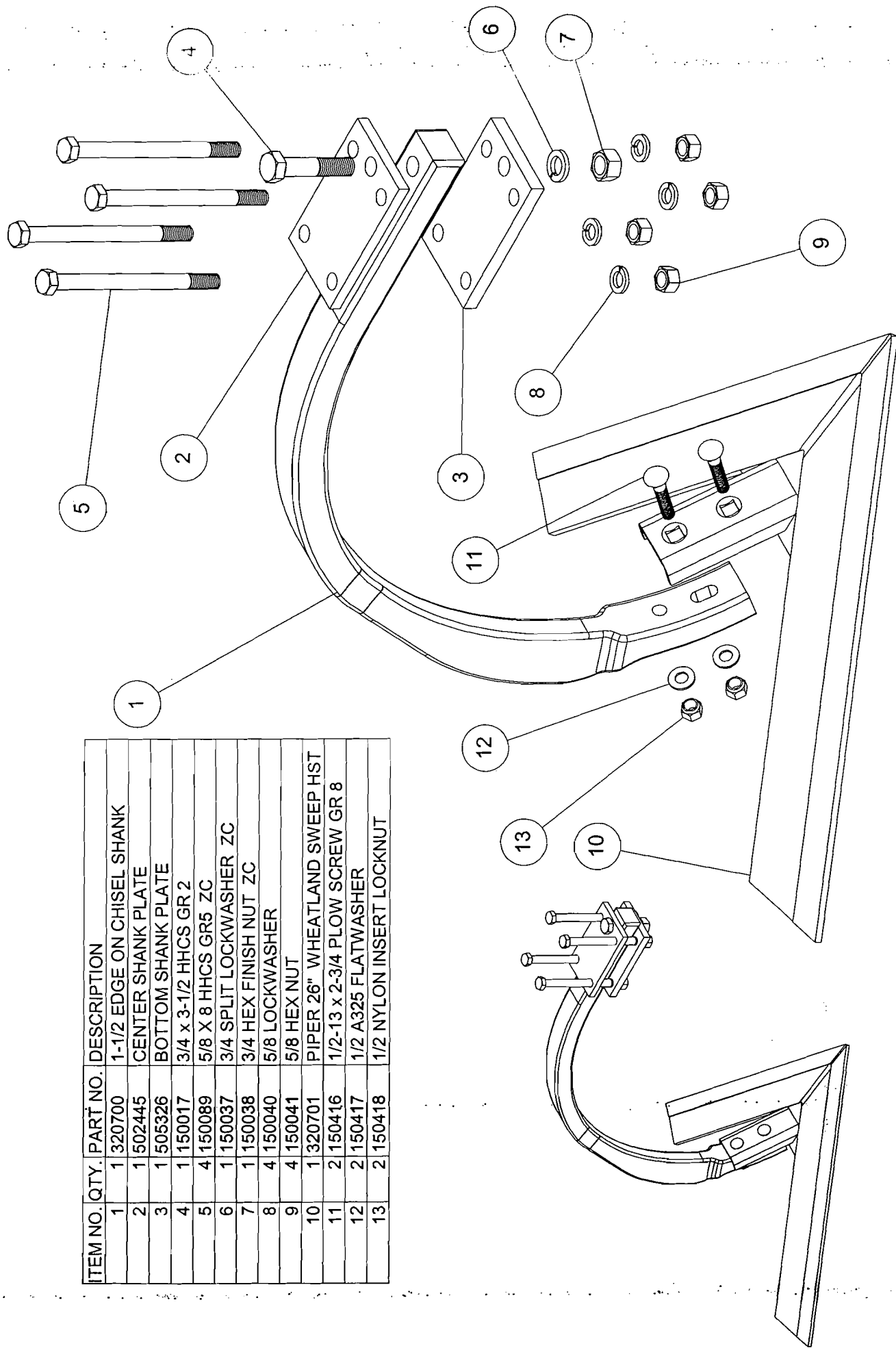
HOSE STAND ASSEMBLY

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	320700	1-1/2" EDGE ON CHISEL SHANK
2	1	502445	CENTER SHANK PLATE
3	1	505326	BOTTOM SHANK PLATE
4	1	150017	3/4 x 3-1/2 HHCS GR 2
5	1	703431	2" TOP SHANK PLATE
6	4	150089	5/8 X 8 HHCS GR5 ZC
7	1	150037	3/4 SPLIT LOCKWASHER ZC
8	1	150038	3/4 HEX FINISH NUT ZC
9	4	150040	5/8 LOCKWASHER
10	4	150041	5/8 HEX NUT
11	1	320701	PIPER 26" WHEATLAND SWEEP HST
12	2	150416	1/2-13 x 2-3/4 PLOW SCREW GR 8
13	2	150417	1/2 A325 FLATWASHER
14	2	150418	1/2 NYLON INSERT LOCKNUT

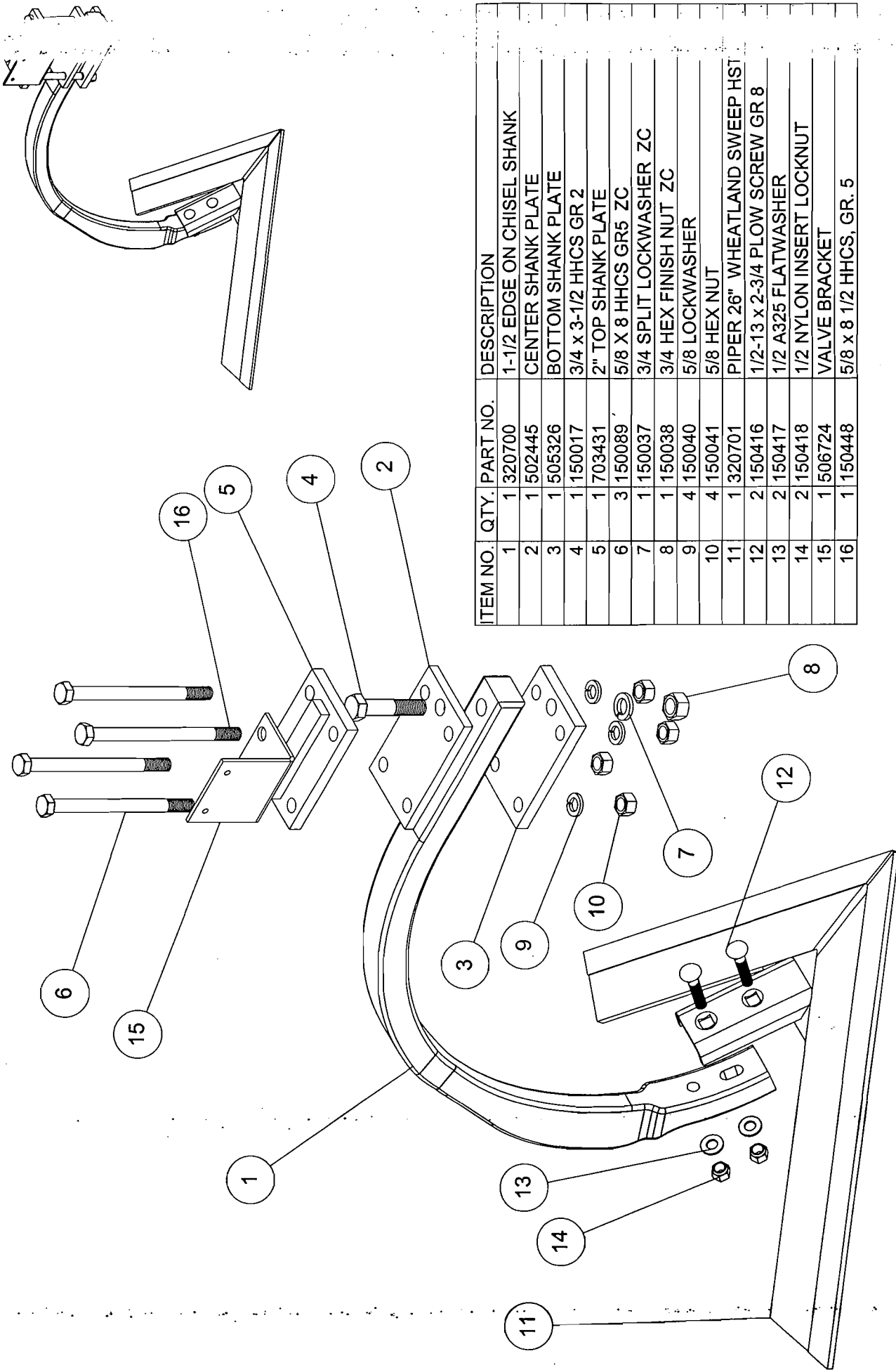


"EDGE ON" CHISEL SHANK ASSEMBLY (901392)

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	320700	1-1/2 EDGE ON CHISEL SHANK
2	1	502445	CENTER SHANK PLATE
3	1	505326	BOTTOM SHANK PLATE
4	1	150017	3/4 x 3-1/2 HHCS GR 2
5	4	150089	5/8 X 8 HHCS GR5 ZC
6	1	150037	3/4 SPLIT LOCKWASHER ZC
7	1	150038	3/4 HEX FINISH NUT ZC
8	4	150040	5/8 LOCKWASHER
9	4	150041	5/8 HEX NUT
10	1	320701	PIPER 26" WHEATLAND SWEEP HST
11	2	150416	1/2-13 x 2-3/4 PLOW SCREW GR 8
12	2	150417	1/2 A325 FLATWASHER
13	2	150418	1/2 NYLON INSERT LOCKNUT



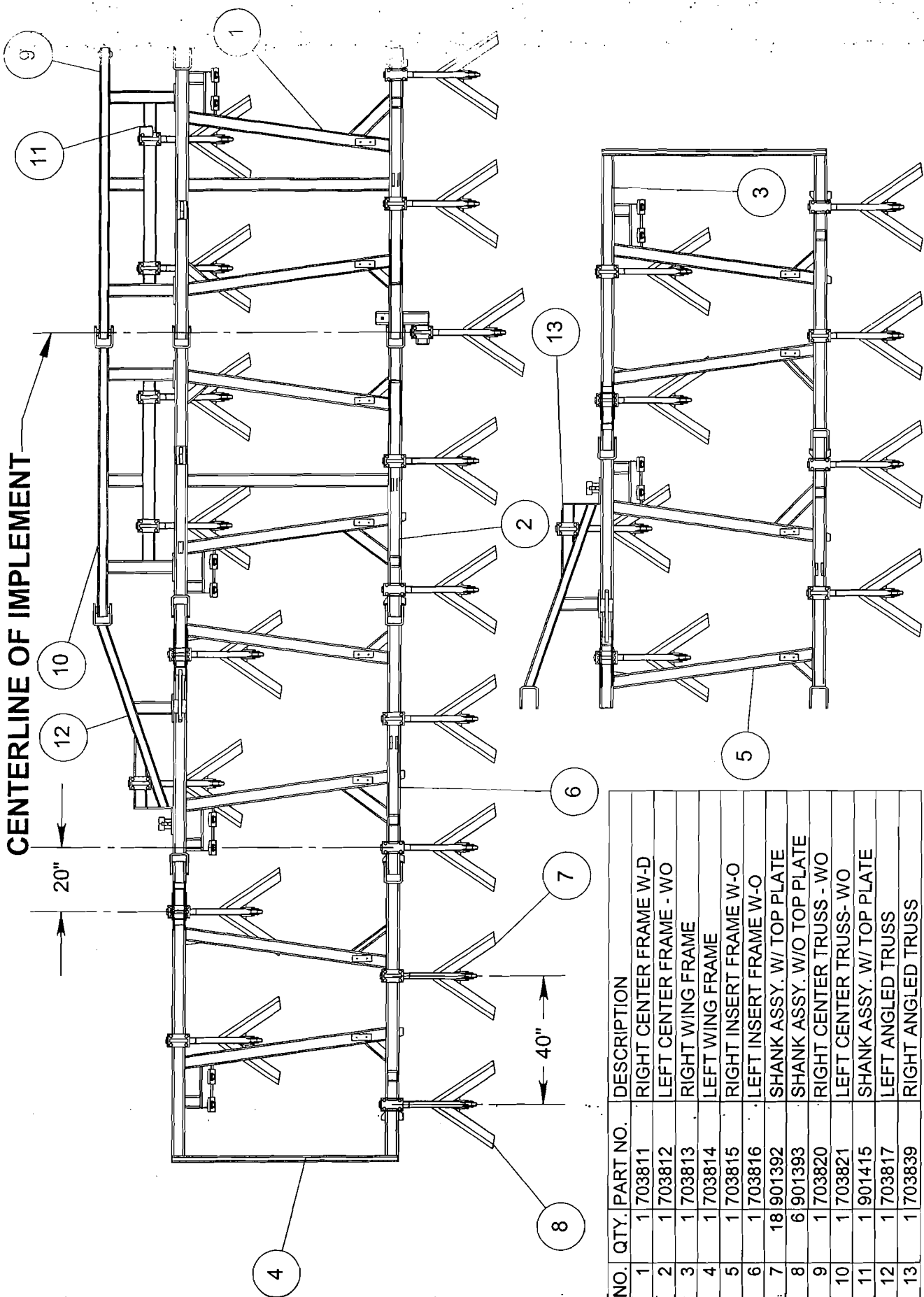
SHANK ASSEMBLY W/O TOP PLATE (901393)



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	320700	1-1/2" EDGE ON CHISEL SHANK
2	1	502445	CENTER SHANK PLATE
3	1	505326	BOTTOM SHANK PLATE
4	1	150017	3/4 x 3-1/2" HHCS GR 2
5	1	1703431	2" TOP SHANK PLATE
6	3	150089	5/8 X 8 HHCS GR5 ZC
7	1	150037	3/4 SPLIT LOCKWASHER ZC
8	1	150038	3/4 HEX FINISH NUT ZC
9	4	150040	5/8 LOCKWASHER
10	4	150041	5/8 HEX NUT
11	1	320701	PIPER 26" WHEATLAND SWEEP HST
12	2	150416	1/2-13 x 2-3/4 FLOW SCREW GR 8
13	2	150417	1/2 A325 FLATWASHER
14	2	150418	1/2 NYLON INSERT LOCKNUT
15	1	506724	VALVE BRACKET
16	1	150448	5/8 x 8 1/2 HHCS, GR. 5

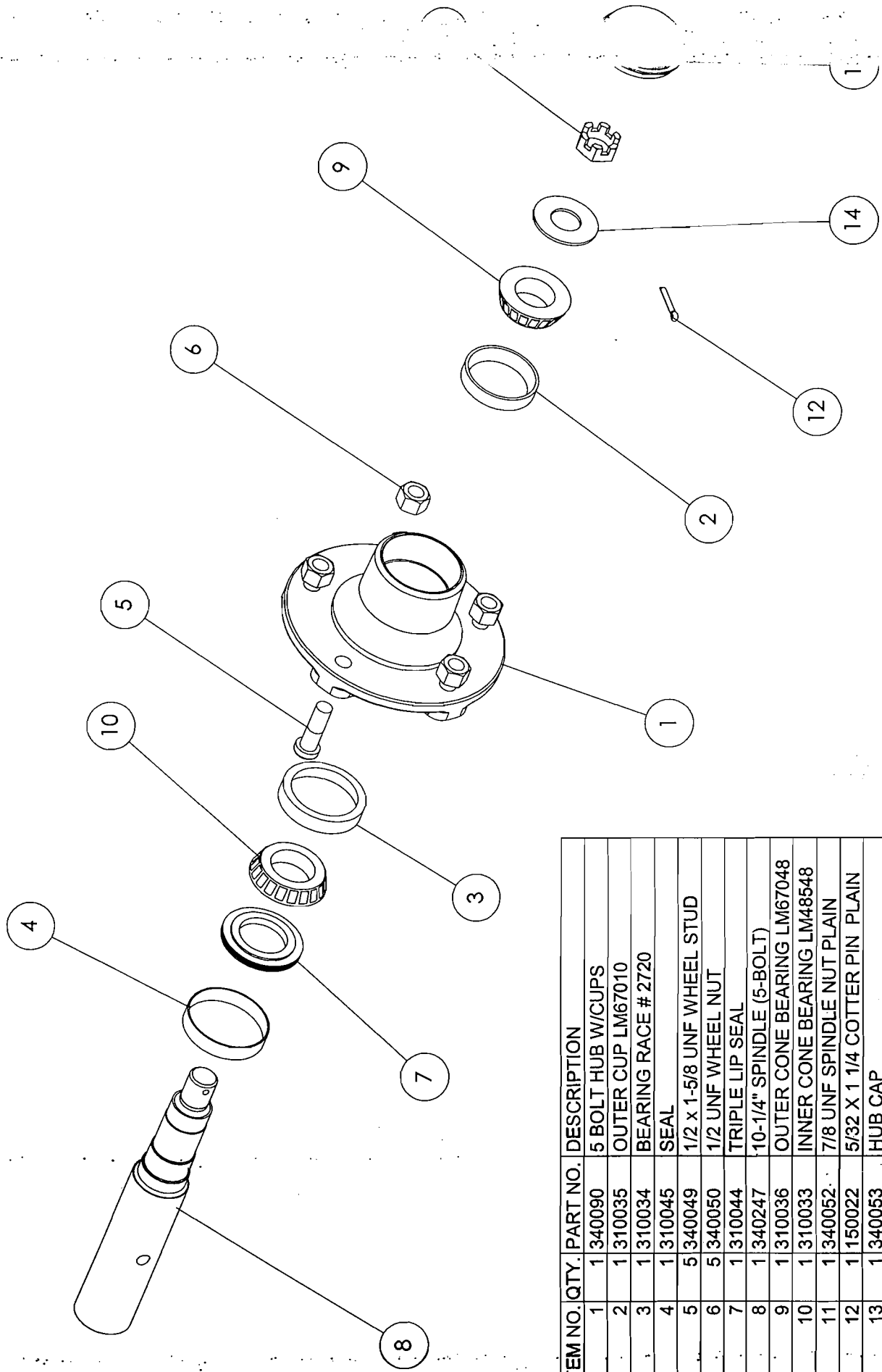
"EDGE ON" CHISEL SHANK W/ VALVE BRACKET (901415)

CENTERLINE OF IMPLEMENT



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	1703811	RIGHT CENTER FRAME W-D
2	1	1703812	LEFT CENTER FRAME - WO
3	1	1703813	RIGHT WING FRAME
4	1	1703814	LEFT WING FRAME
5	1	1703815	RIGHT INSERT FRAME W-O
6	1	1703816	LEFT INSERT FRAME W-O
7	18	1901392	SHANK ASSY. W/ TOP PLATE
8	6	1901393	SHANK ASSY. W/O TOP PLATE
9	1	1703820	RIGHT CENTER TRUSS - WO
10	1	1703821	LEFT CENTER TRUSS - WO
11	1	1901415	SHANK ASSY. W/ TOP PLATE
12	1	1703817	LEFT ANGLED TRUSS
13	1	1703839	RIGHT ANGLED TRUSS

6-42 SHANK PLACEMENT

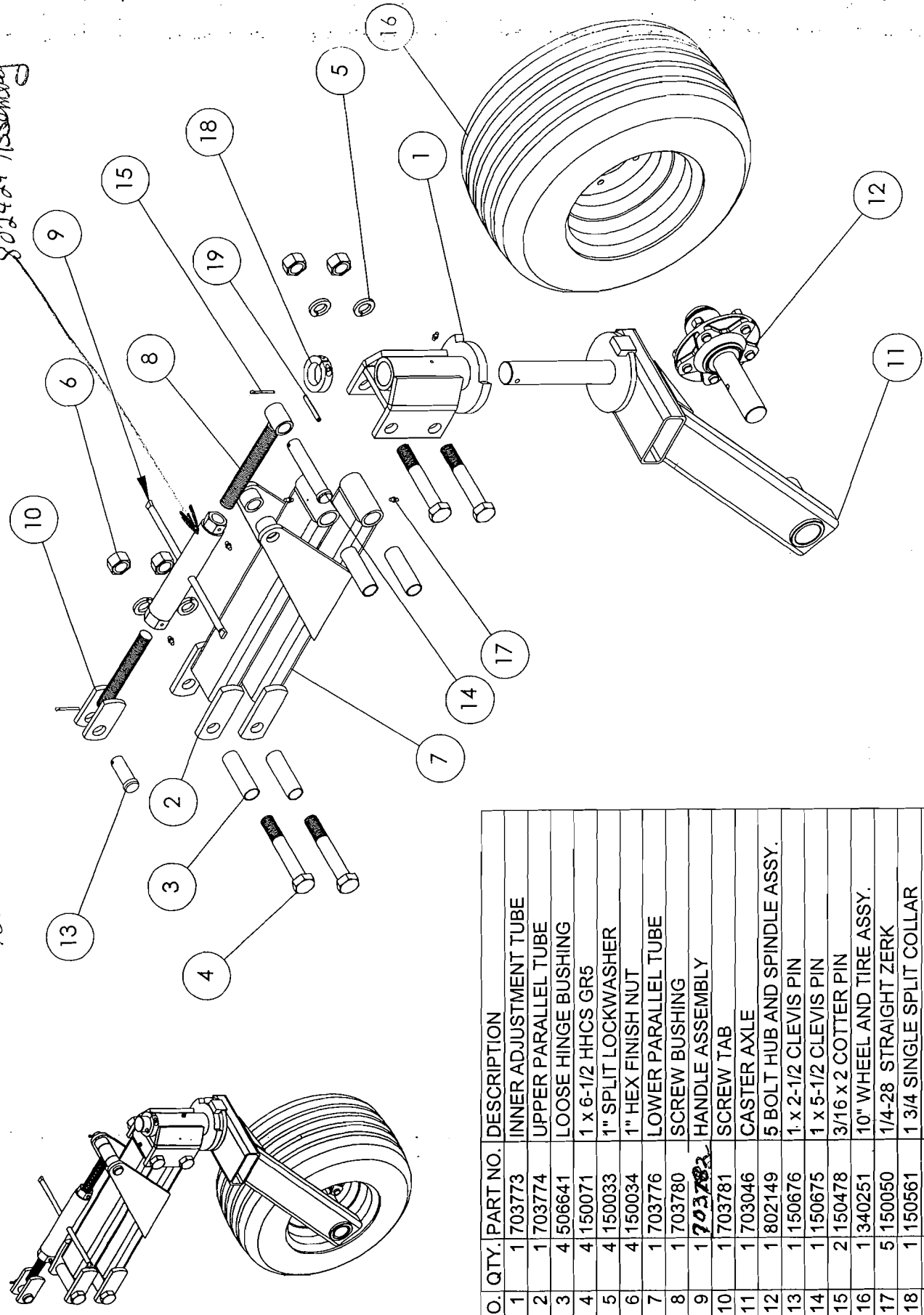


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	340090	5 BOLT HUB W/CUPS
2	1	310035	OUTER CUP LM67010
3	1	310034	BEARING RACE # 2720
4	1	310045	SEAL
5	5	340049	1/2 x 1-5/8 UNF WHEEL STUD
6	5	340050	1/2 UNF WHEEL NUT
7	1	310044	TRIPLE LIP SEAL
8	1	340247	10-1/4" SPINDLE (5-BOLT)
9	1	310036	OUTER CONE BEARING LM67048
10	1	310033	INNER CONE BEARING LM48548
11	1	340052	7/8 UNF SPINDLE NUT PLAIN
12	1	150022	5/32 X 1 1/4 COTTER PIN PLAIN
13	1	340053	HUB CAP
14	1	340051	7/8 RETAINING WASHER

5 BOLT HUB AND SPINDLE ASSEMBLY (802149)

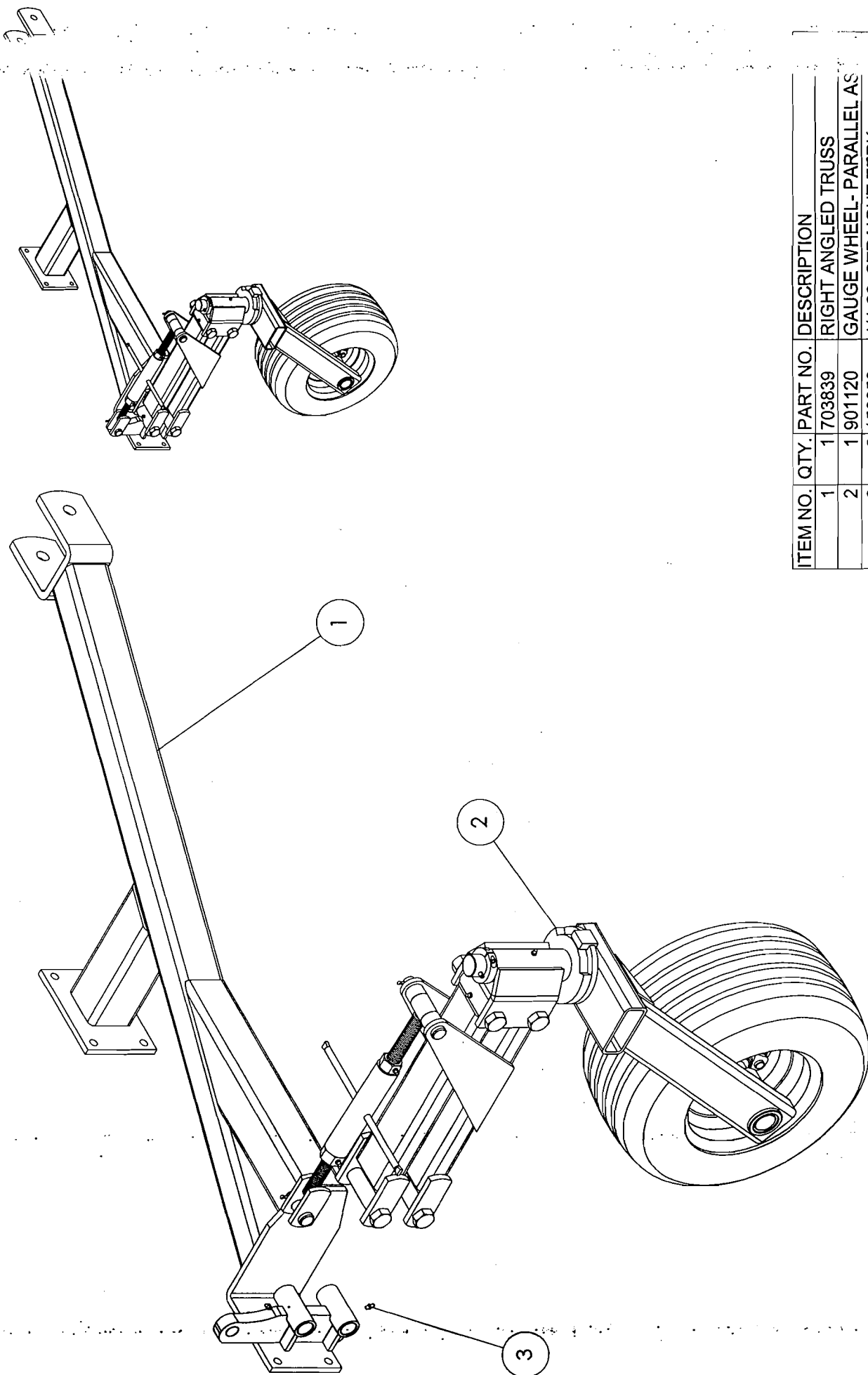
901077
901120 v

802424 Assembly



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703773	INNER ADJUSTMENT TUBE
2	1	703774	UPPER PARALLEL TUBE
3	4	506641	LOOSE HINGE BUSHING
4	4	150071	1 x 6-1/2 HHCS GR5
5	4	150033	1" SPLIT LOCKWASHER
6	4	150034	1" HEX FINISH NUT
7	1	703776	LOWER PARALLEL TUBE
8	1	703780	SCREW BUSHING
9	1	703782	HANDLE ASSEMBLY
10	1	703781	SCREW TAB
11	1	703046	CASTER AXLE
12	1	802149	5 BOLT HUB AND SPINDLE ASSY.
13	1	150676	1 x 2-1/2 CLEVIS PIN
14	1	150675	1 x 5-1/2 CLEVIS PIN
15	2	150478	3/16 x 2 COTTER PIN
16	1	340251	10" WHEEL AND TIRE ASSY.
17	5	150050	1/4-28 STRAIGHT ZERK
18	1	150561	1 3/4 SINGLE SPLIT COLLAR
19	1	150443	3/8 X 2 1/2 ROLL PIN

GAUGE WHEEL DETAIL (901120)



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703839	RIGHT ANGLED TRUSS
2	1	901120	GAUGE WHEEL- PARALLEL AS
3	2	150050	1/4-28 STRAIGHT ZERK

GAUGE WHEEL PLACEMENT

REF. PART# QTY DESCRIPTION

REF.	PART#	QTY	DESCRIPTION
	330496	1	2-3/4 X 10 WINGFOLD CYLINDER
1	330648	1	BASE CASTING
2	330646	4	TIE ROD BOLT
3	330654	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330666	1	CLEVIS
6	330637	1	PRINCE CYLINDER ROD
7	330640	1	BARREL
8	330660	1	PISTON
9	330668	1	CYLINDER ROD NUT
	330718		PRINCE PACKING KIT

REF. PART# QTY DESCRIPTION

REF.	PART#	QTY	DESCRIPTION
	330382	1	3-1/4 X 10 WINGFOLD CYLINDER
1	330650	1	BASE CASTING
2	330646	4	TIE ROD BOLT
3	330656	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330666	1	CLEVIS
6	330638	1	PRINCE CYLINDER ROD
7	330642	1	BARREL
8	330662	1	PISTON
9	330668	1	CYLINDER ROD NUT
	330720		PRINCE PACKING KIT

REF. PART# QTY DESCRIPTION

REF.	PART#	QTY	DESCRIPTION
	330381	1	3 X 10 WINGFOLD CYLINDER
1	330649	1	BASE CASTING
2	330646	4	TIE ROD BOLT
3	330655	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330666	1	CLEVIS
6	330638	1	PRINCE CYLINDER ROD
7	330641	1	BARREL
8	330664	1	PISTON
9	330669	1	CYLINDER ROD NUT
	330719		PRINCE PACKING KIT

REF. PART# QTY DESCRIPTION

REF.	PART#	QTY	DESCRIPTION
	330434	1	3-1/2 X 10 WINGFOLD CYLINDER
1	330651	1	BASE CASTING
2	330646	4	TIE ROD BOLT
3	330657	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330666	1	CLEVIS
6	330638	1	PRINCE CYLINDER ROD
7	330643	1	BARREL
8	330663	1	PISTON
9	330668	1	CYLINDER ROD NUT
	330721		PRINCE PACKING KIT

REF. PART# QTY DESCRIPTION

REF.	PART#	QTY	DESCRIPTION
	330435	1	3-3/4 X 10 WINGFOLD CYLINDER
1	330652	1	BASE CASTING
2	330647	4	TIE ROD BOLT
3	330658	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330667	1	CLEVIS
6	330639	1	PRINCE CYLINDER ROD
7	330644	1	BARREL
8	330664	1	PISTON
9	330669	1	CYLINDER ROD NUT
	330722		PRINCE PACKING KIT

REF. PART# QTY DESCRIPTION

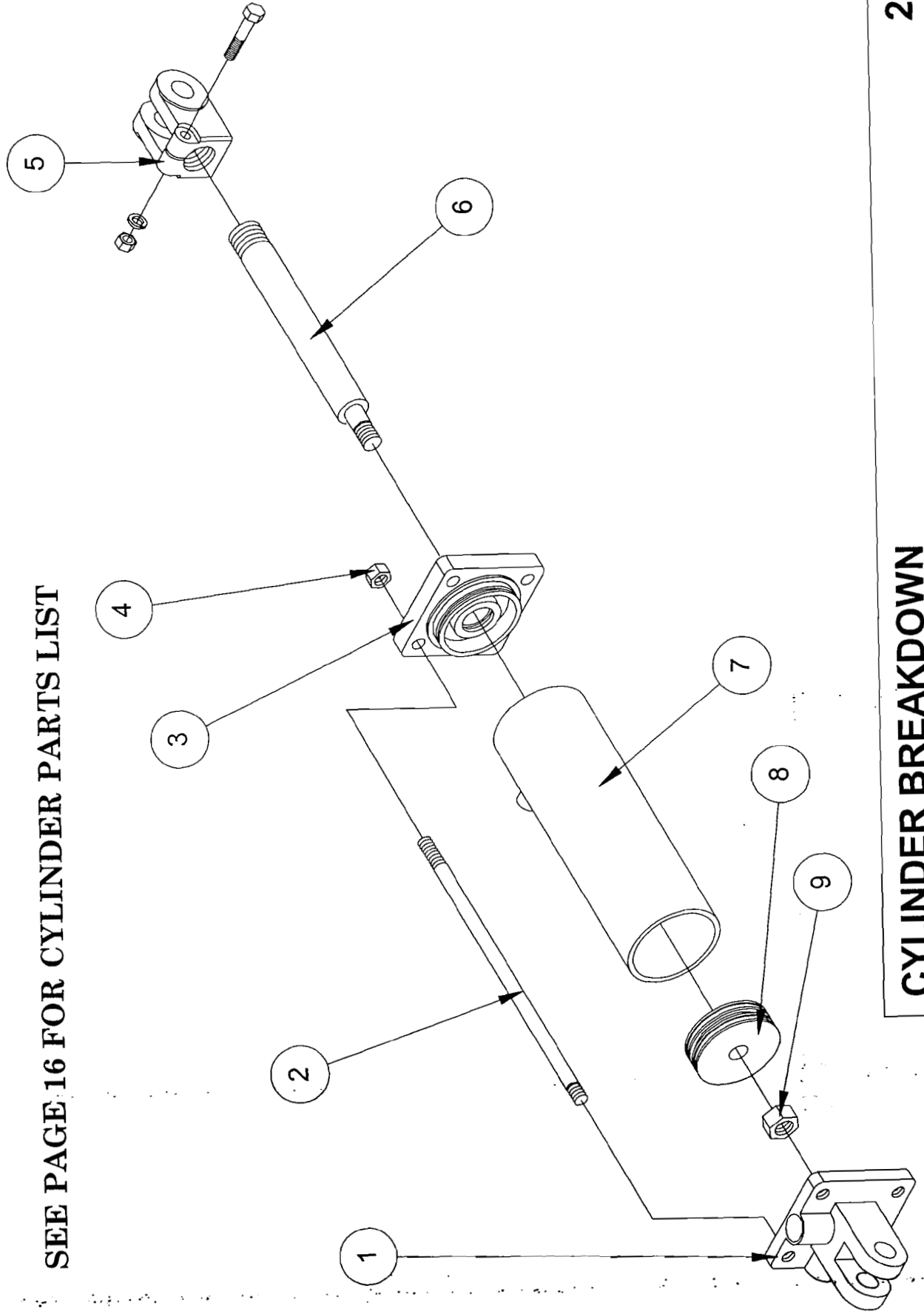
REF.	PART#	QTY	DESCRIPTION
	330495	1	4 X 10 WINGFOLD CYLINDER
1	330653	1	BASE CASTING
2	330647	4	TIE ROD BOLT
3	330659	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330667	1	CLEVIS
6	330639	1	PRINCE CYLINDER ROD
7	330645	1	BARREL
8	330665	1	PISTON
9	330669	1	CYLINDER ROD NUT
	330723		PRINCE PACKING KIT

CYLINDER PARTS LIST

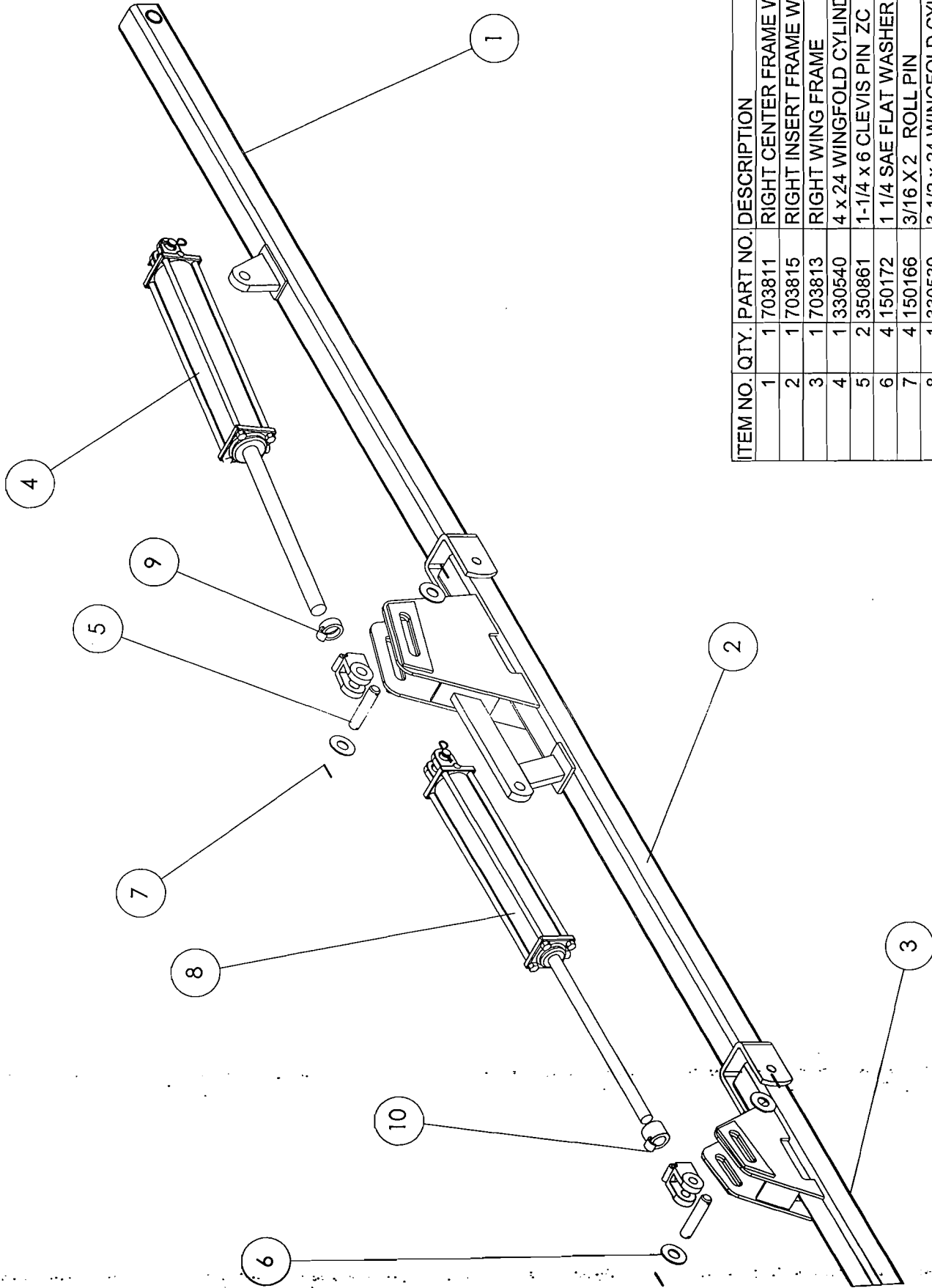
REF.	PART#	QTY	DESCRIPTION
	330539	1	3 1/2 X 24 WINGFOLD CYLINDER
1	330598	1	BASE CASTING
2	330595	4	TIE ROD BOLT
3	330601	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330607	1	CLEVIS
6	330589	1	PRINCE CYLINDER ROD
7	330592	1	BARREL
8	330604	1	PISTON
9	330610	1	CYLINDER ROD NUT
	330634		PRINCE PACKING KIT

REF.	PART#	QTY	DESCRIPTION
	33540	1	4 X 24 WINGFOLD CYLINDER
1	330599	1	BASE CASTING
2	330596	4	TIE ROD BOLT
3	330602	1	HEAD CASTING
4	330809	4	TIE ROD HEX NUT
5	330608	1	CLEVIS
6	330590	1	PRINCE CYLINDER ROD
7	330593	1	BARREL
8	330605	1	PISTON
9	330611	1	CYLINDER ROD NUT
	330635		PRINCE PACKING KIT

SEE PAGE 16 FOR CYLINDER PARTS LIST

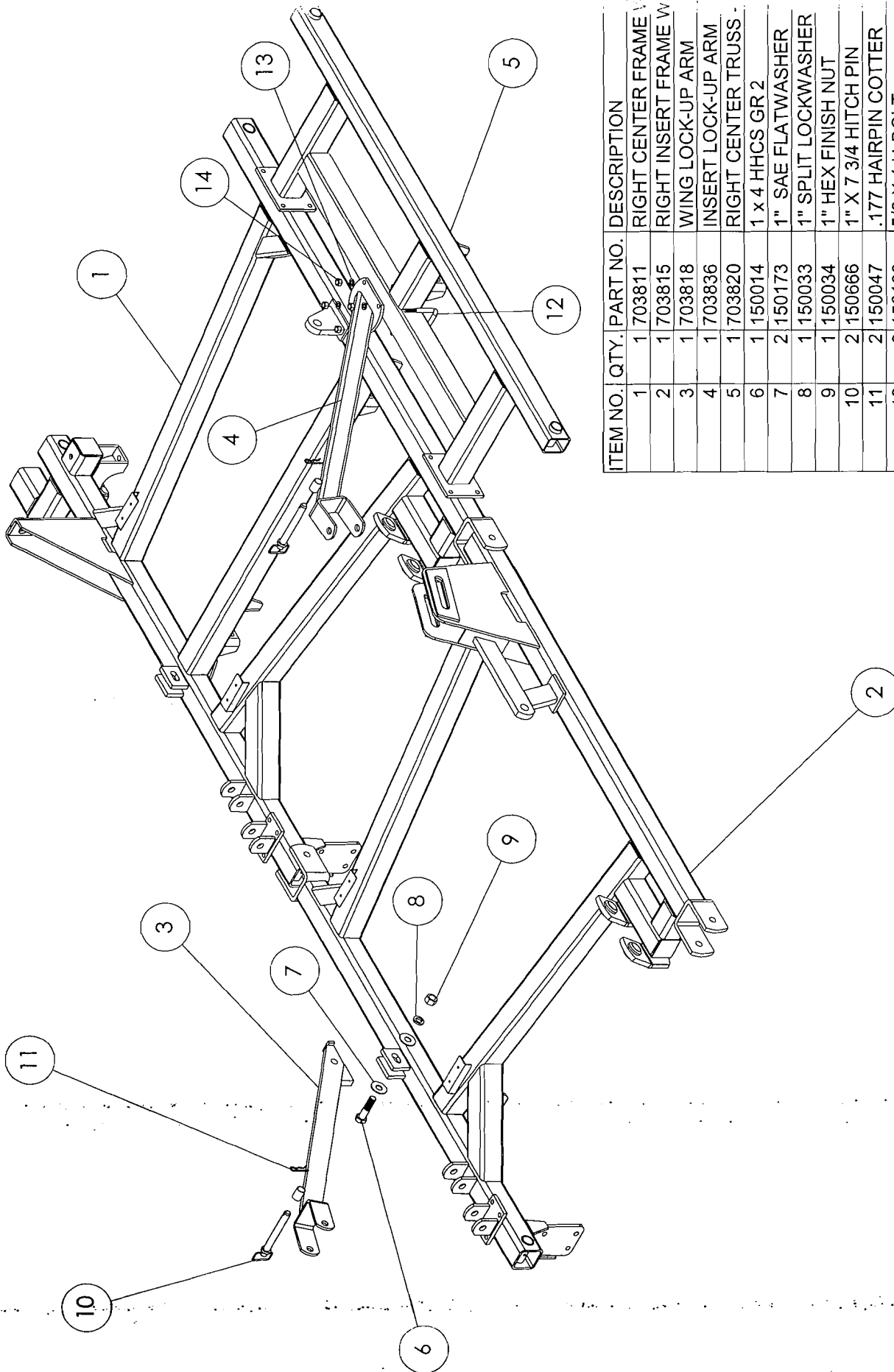


CYLINDER BREAKDOWN



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	1703811	RIGHT CENTER FRAME W-D
2	1	1703815	RIGHT INSERT FRAME W-O
3	1	1703813	RIGHT WING FRAME
4	1	1330540	4 x 24 WINGFOLD CYLINDER
5	2	350861	1-1/4 x 6 CLEVIS PIN ZC
6	4	150172	1 1/4 SAE FLAT WASHER
7	4	150166	3/16 X 2 ROLL PIN
8	1	1330539	3 1/2 x 24 WINGFOLD CYLINDER

WINGFOLD DETAIL

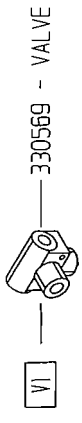
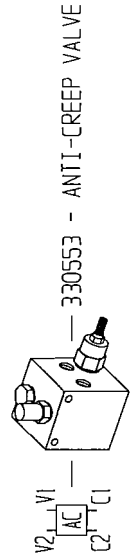


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703811	RIGHT CENTER FRAME W-D
2	1	703815	RIGHT INSERT FRAME W-U
3	1	703818	WING LOCK-UP ARM
4	1	703836	INSERT LOCK-UP ARM
5	1	703820	RIGHT CENTER TRUSS W/O
6	1	150014	1 x 4 HHCS GR 2
7	2	150173	1" SAE FLATWASHER
8	1	150033	1" SPLIT LOCKWASHER
9	1	150034	1" HEX FINISH NUT
10	2	150666	1" X 7 3/4 HITCH PIN
11	2	150047	.177 HAIRPIN COTTER
12	2	150100	5/8 X 4 U-BOLT
13	4	150040	5/8 LOCKWASHER
14	4	150041	5/8 HEX NUT

- 10C — 330496 - 2 3/4" x 10" REPHASING CYLINDER
- 20C — 330381 - 3" x 10" REPHASING CYLINDER
- 30C — 330382 - 3 1/4" x 10" REPHASING CYLINDER
- 40C — 330434 - 3 1/2" x 10" REPHASING CYLINDER
- 50C — 330435 - 3 3/4" x 10" REPHASING CYLINDER
- 60C — 330495 - 4" x 10" REPHASING CYLINDER
- 1 — 802309 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 10 INCHES.
- 2 — 802126 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 18 INCHES.
- 3 — 800350 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 26 INCHES.
- 4 — 800294 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 34 INCHES.
- 5 — 800808 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 47.5 INCHES.
- 6 — 800793 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 60 INCHES.
- 7 — 802100 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 78 INCHES.
- 8 — 802184 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 87 INCHES.
- 9 — 800359 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 101 INCHES.
- 10 — 800970 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 112 INCHES.
- 11 — 800363 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 136 INCHES.
- 12 — 802232 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 141 INCHES.
- 13 — 800374 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 153 INCHES.
- 14 — 802228 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 201 INCHES.
- 15 — 802184 - 3/8" STEEL HYDRAULIC LINE - 48 INCHES.



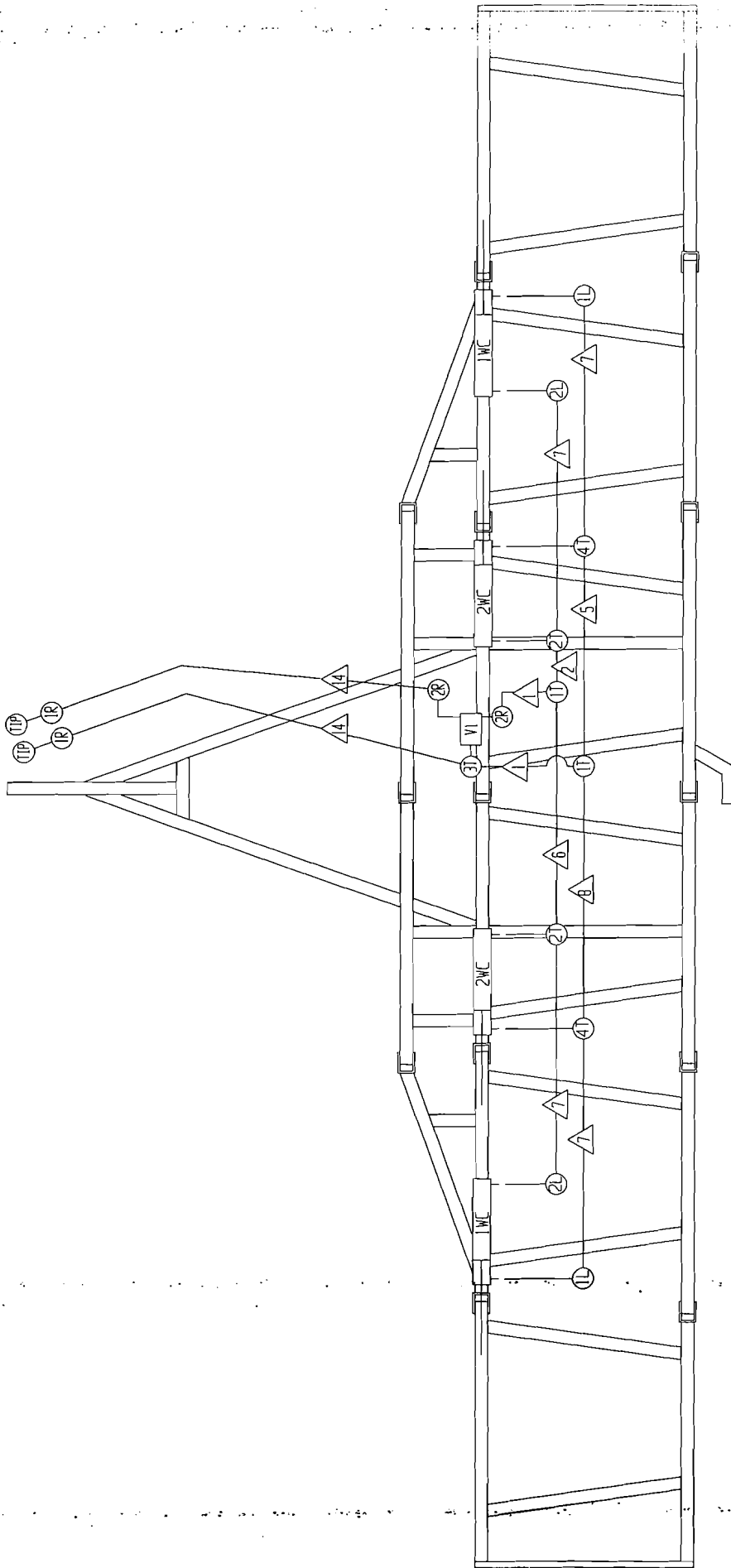
- 1L — 330275 - 90 DEGREE ELBOW 3/4" - 16 MALE x 3/8" NPT FEMALE W/RES.
- 2L — 330276 - 90 DEGREE ELBOW 3/4" - 16 MALE x 3/8" NPT FEMALE
- 1I — 330201 - 3/8" FEMALE TEE
- 2I — 330278 - 3/4" MALE x 3/8" FEMALE TEE
- 3I — 330367 - 1/2" MALE x 3/8" FEMALE SWIVEL TEE
- 4I — 330277 - 3/4" MALE x 3/8" FEMALE TEE W/RESTRICTOR
- IR — 330173 - 1/2" x 3/8" REDUCER BUSHING
- 2R — 330281 - 1/2" x 3/8" ST. SWIVEL ADAPTER
- 1A — 330274 - SWIVEL ADAPTER 3/4" - 16 MALE x 3/8" NPT FEMALE
- 1N — 330292 - 3/8" MALE PIPE NIPPLE
- 1P — 330563 - 3/4" UNF HEX O-RING PLUG
- 1TP — 330311 - HYDRAULIC MALE TIP - 8010-4



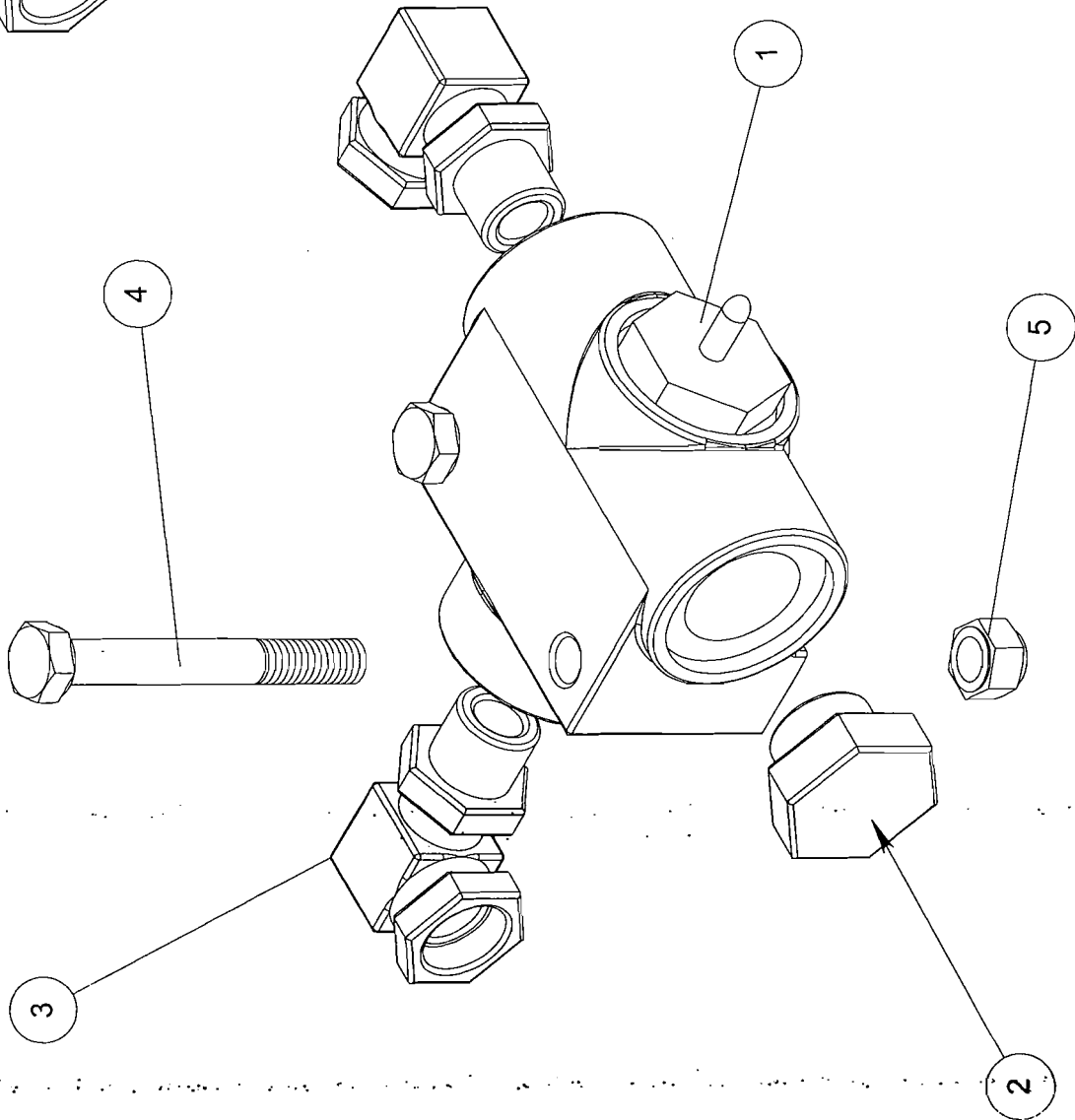
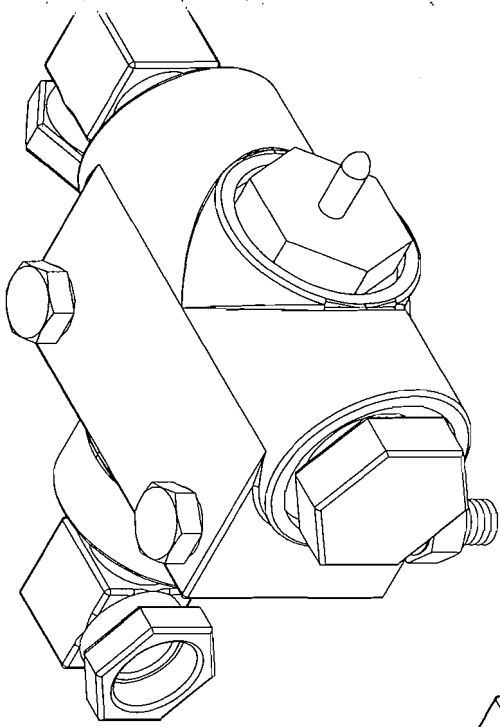
330553 - ANTI-CREEP VALVE

330552 - STROKE CONTROL VALVE

330569 - VALVE

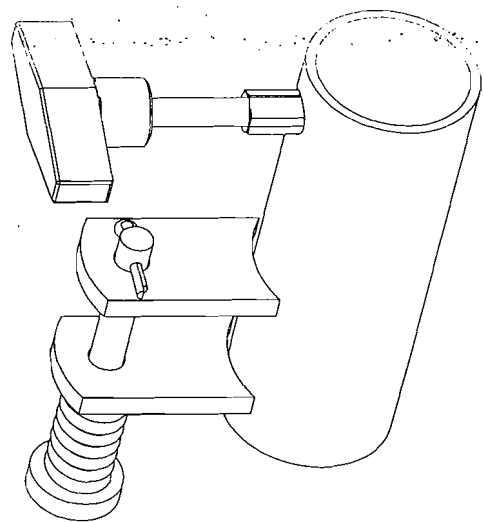


WINGFOLD HYDRAULIC SCHEMATICS

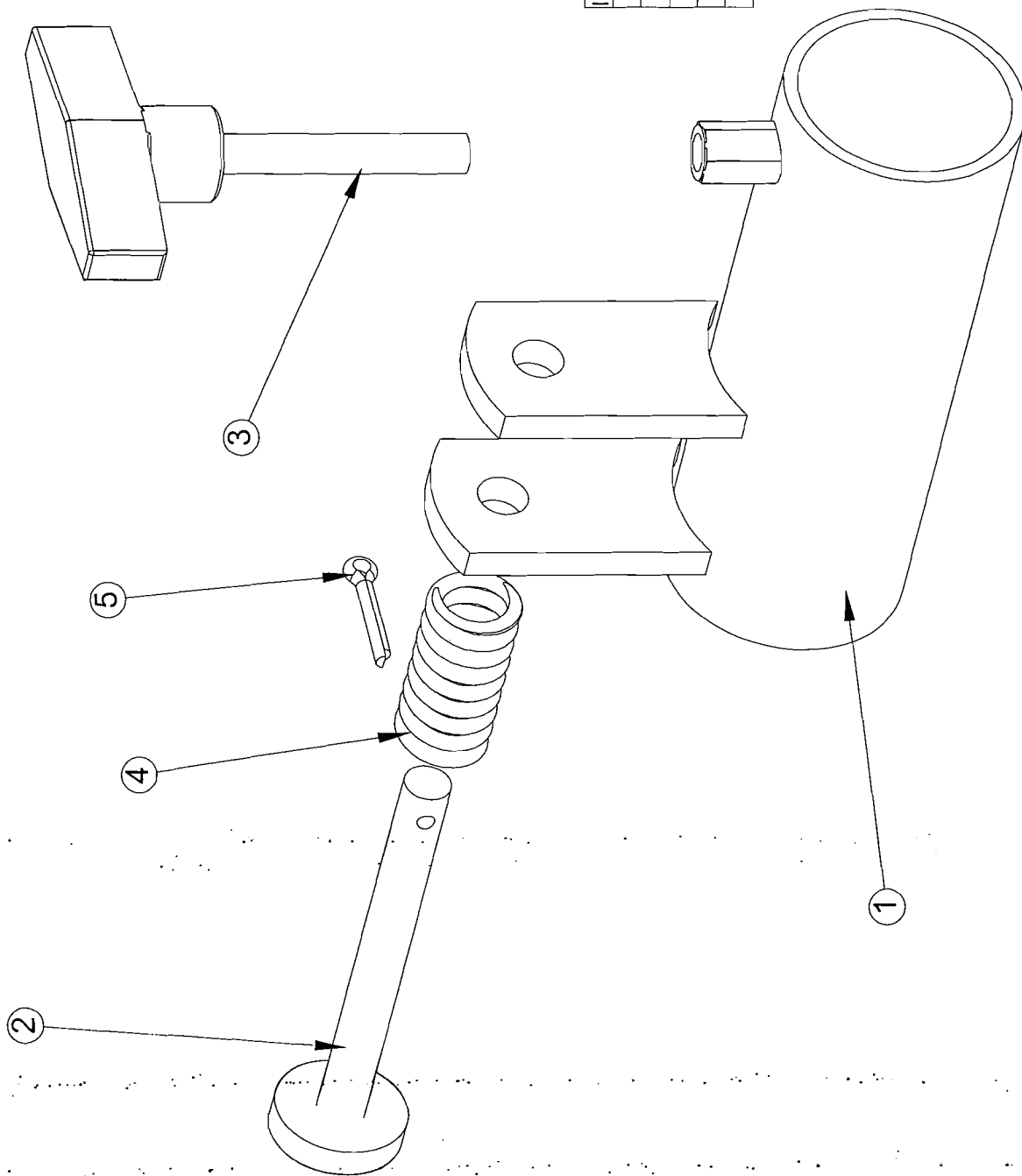


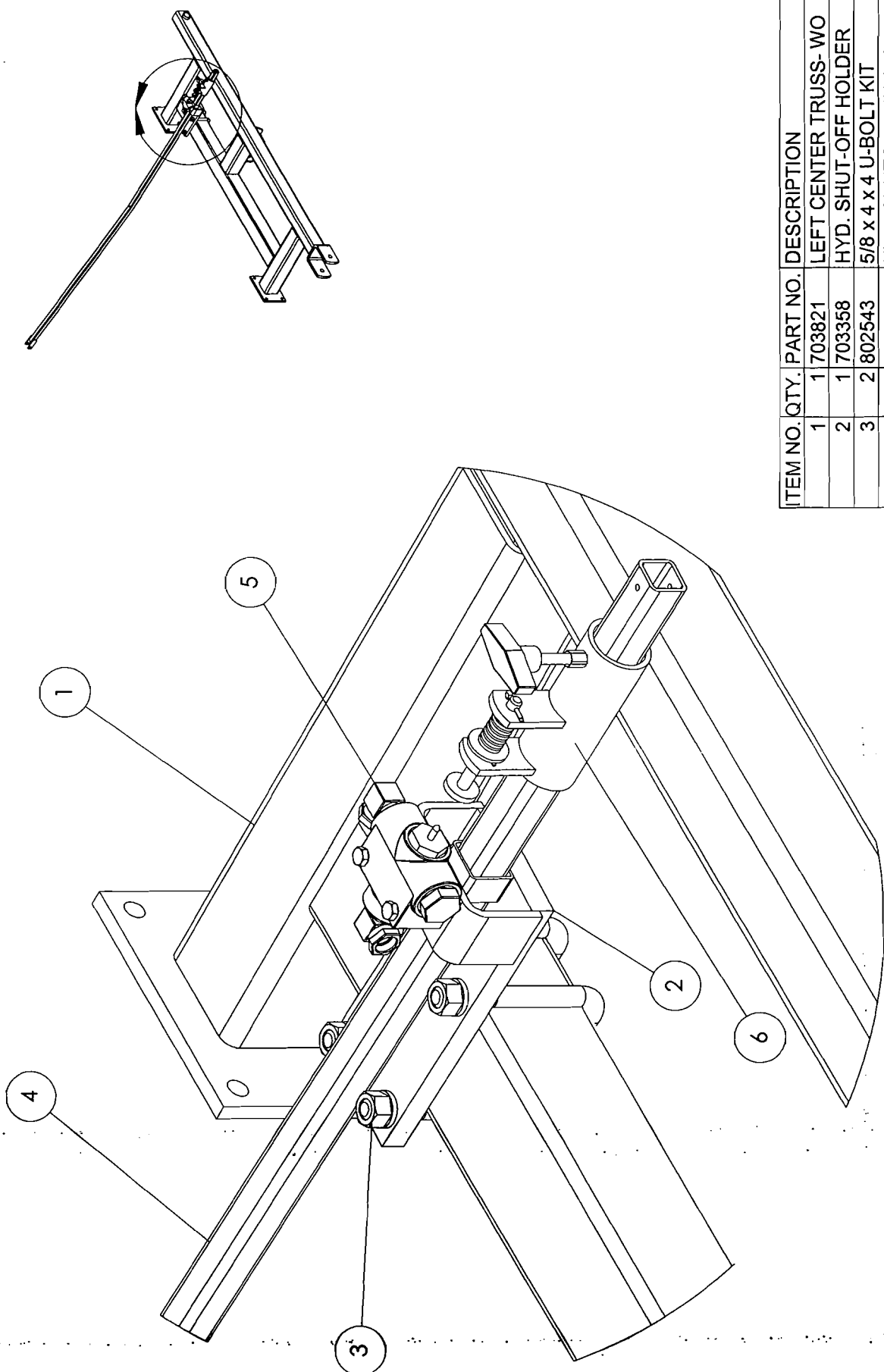
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	330552	DEPTH CONTROL VALVE
2	1	330563	3/4" UNF HEX O-RING PLUG
3	2	330276	3/4M X 3/8F, NPT HYD EL
4	2	150350	5/16 X 2 1/2 HHCS GR2 ZC
5	2	150506	5/16 NYLON INSERT LOCKN

SINGLE POINT DEPTH CONTROL DETAIL (801099)



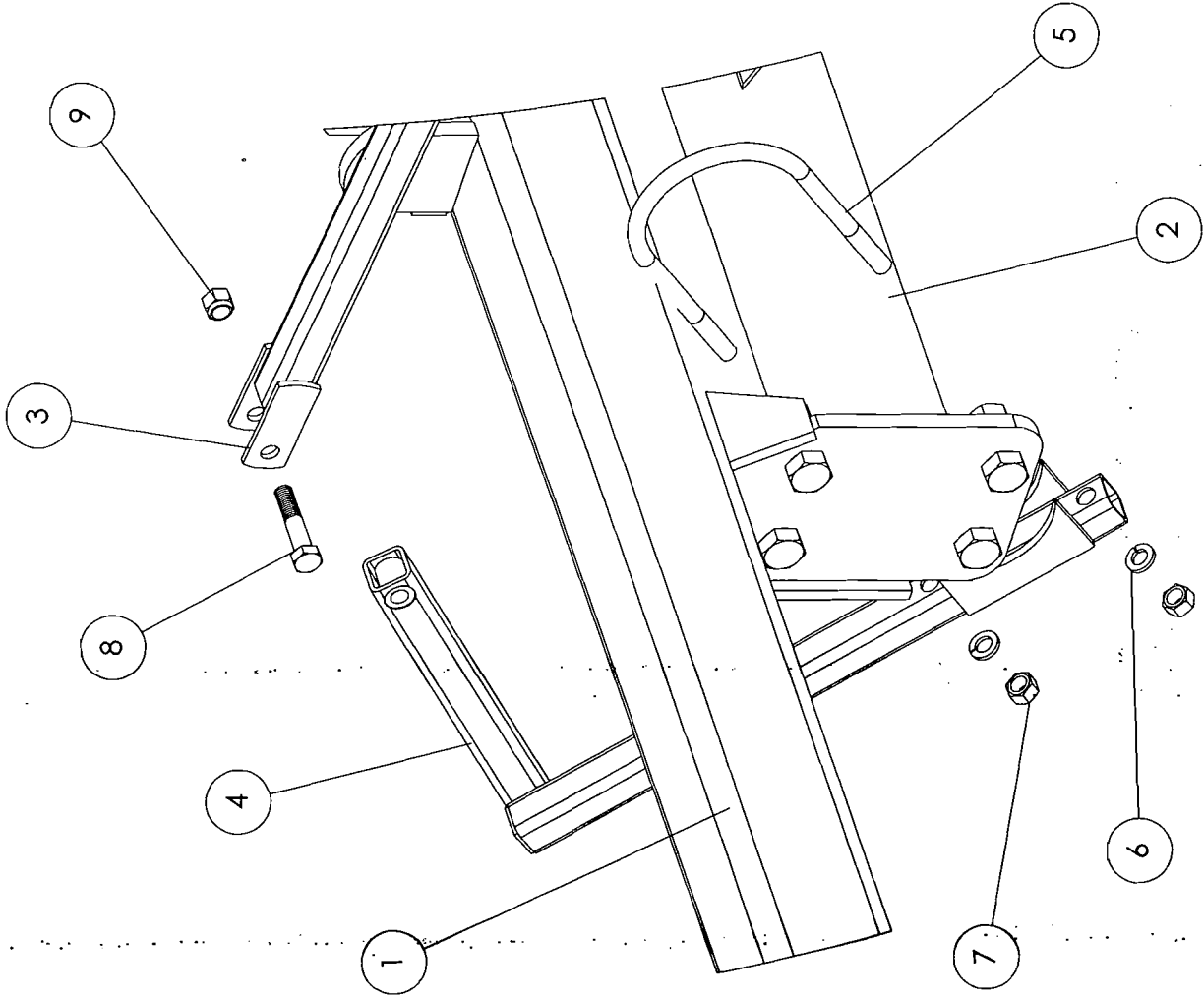
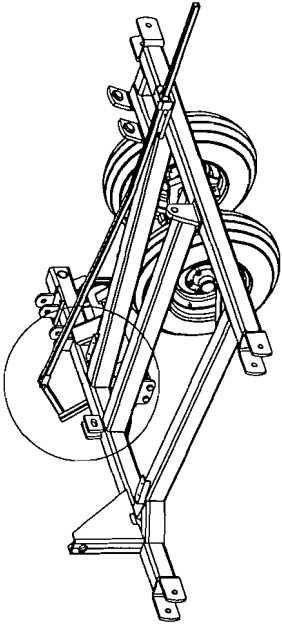
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703487	DEPTH STOP
2	1	703532	DEPTH STOP RAM
3	1	150569	BAR KNOB W/ 5/16 STUB
4	1	360304	SPRING
5	1	150507	1/8 x 1 COTTER PIN





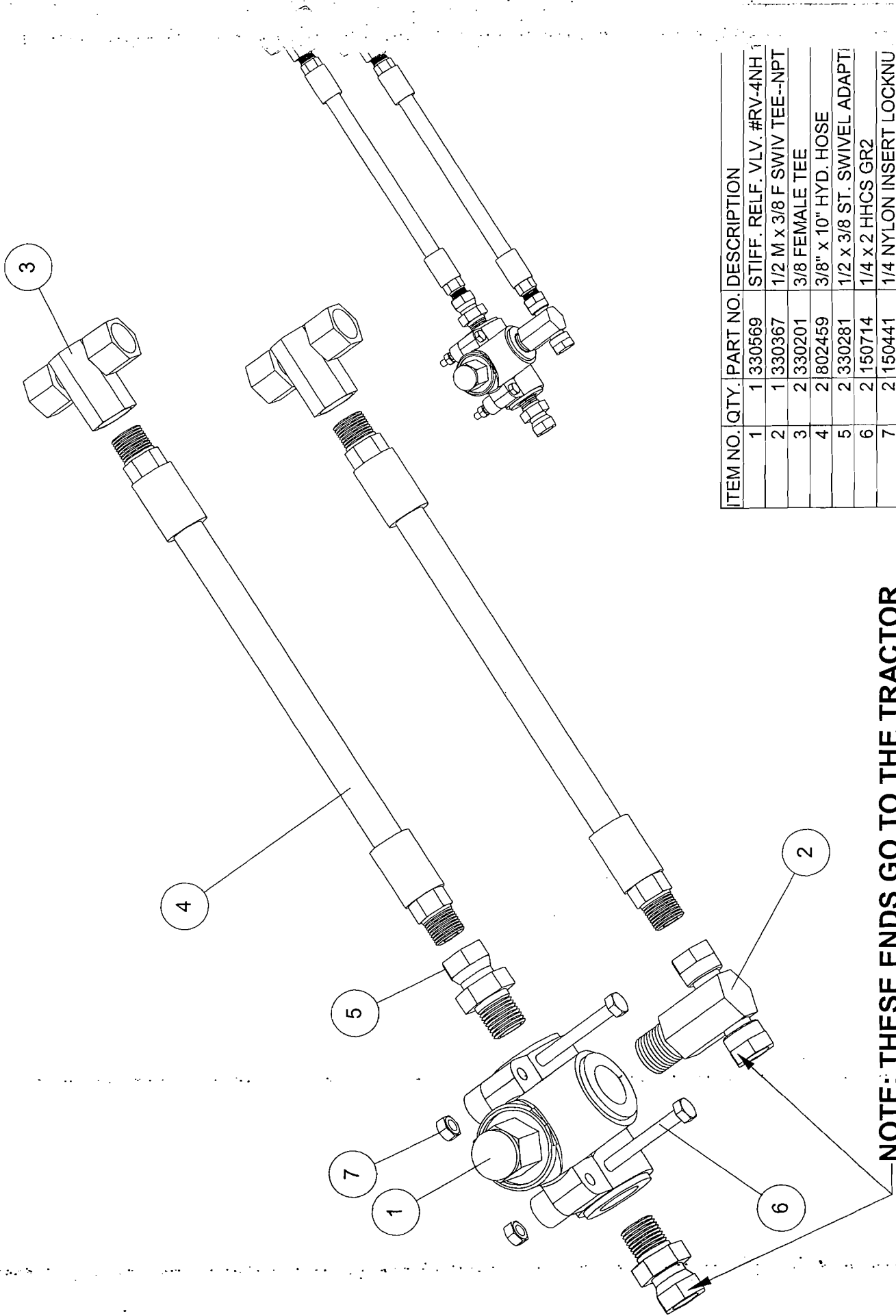
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703821	LEFT CENTER TRUSS- WO
2	1	703358	HYD. SHUT-OFF HOLDER
3	2	802543	5/8 x 4 x 4 U-BOLT KIT
4	1	703356	HYD. SHUTOFF LINKAGE
5	1	801099	DEPTH VALVE W/ATTACHEM
6	1	802329	DEPTH STOP

DEPTH STOP AND VALVE



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703812	LEFT CENTER FRAME - WO
2	1	901412	LEFT CENTER ROCKSHAFT KIT
3	1	703356	HYD. SHUTOFF LINKAGE
4	1	703357	HYD. SHUT-OFF LEVER
5	1	150530	1/2" x 4-1/2" U-BOLT
6	2	150030	1/2 SPLIT LOCKWASHER
7	2	150031	1/2 HEX FINISH NUT
8	1	150313	1/2 x 2-1/2 HHCS GR 2
9	1	150418	1/2 NYLON INSERT LOCKNUT

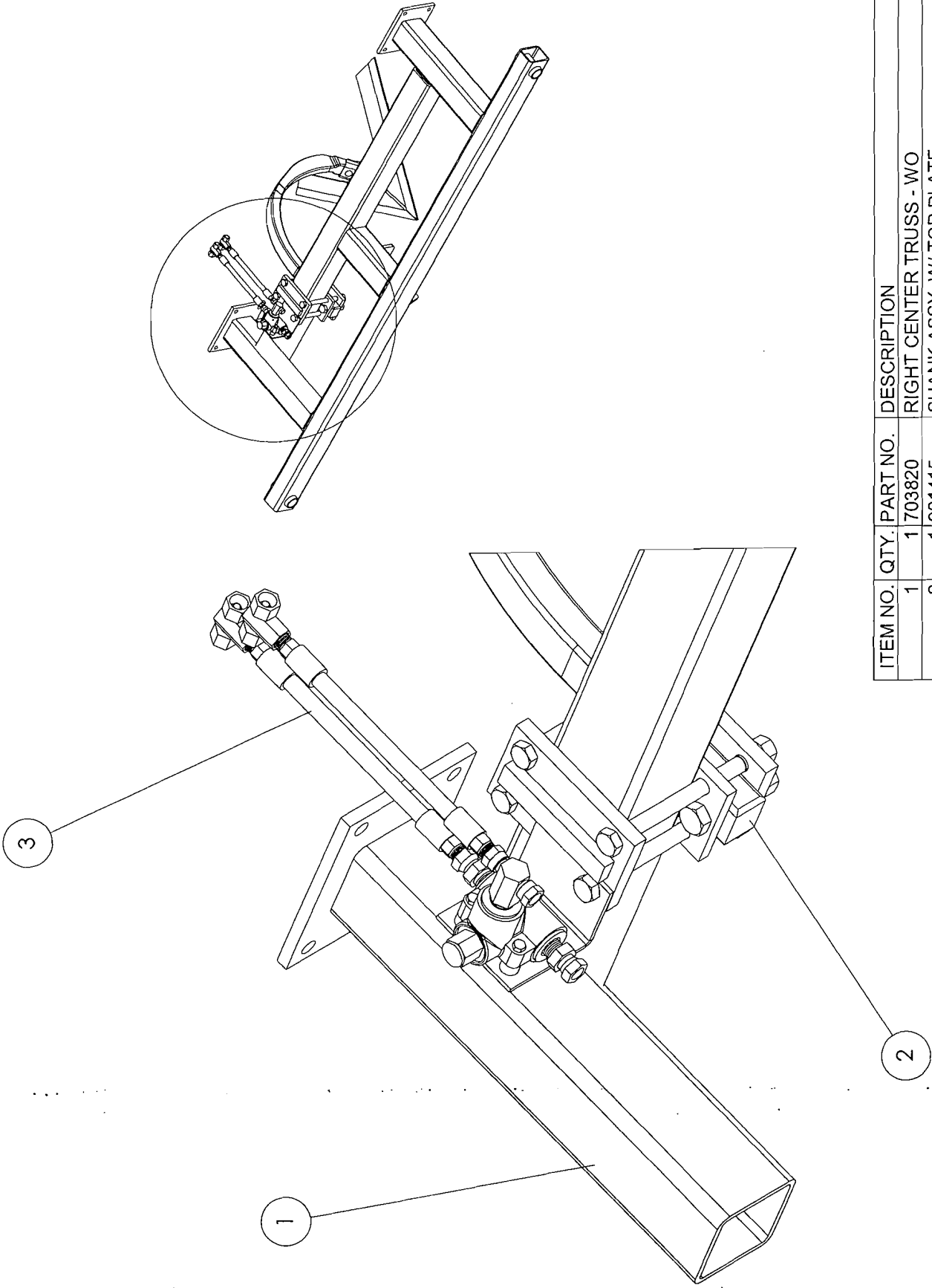
HYDRAULIC SHUTOFF LINKAGE AND LEVER



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	330569	STIFF. RELF. VLV. #RV-4NH
2	1	330367	1/2 M x 3/8 F SWIV TEE--NPT
3	2	330201	3/8 FEMALE TEE
4	2	802459	3/8" x 10" HYD. HOSE
5	2	330281	1/2 x 3/8 ST. SWIVEL ADAPTI
6	2	150714	1/4 x 2 HHCS GR2
7	2	150441	1/4 NYLON INSERT LOCKNU

NOTE: THESE ENDS GO TO THE TRACTOR

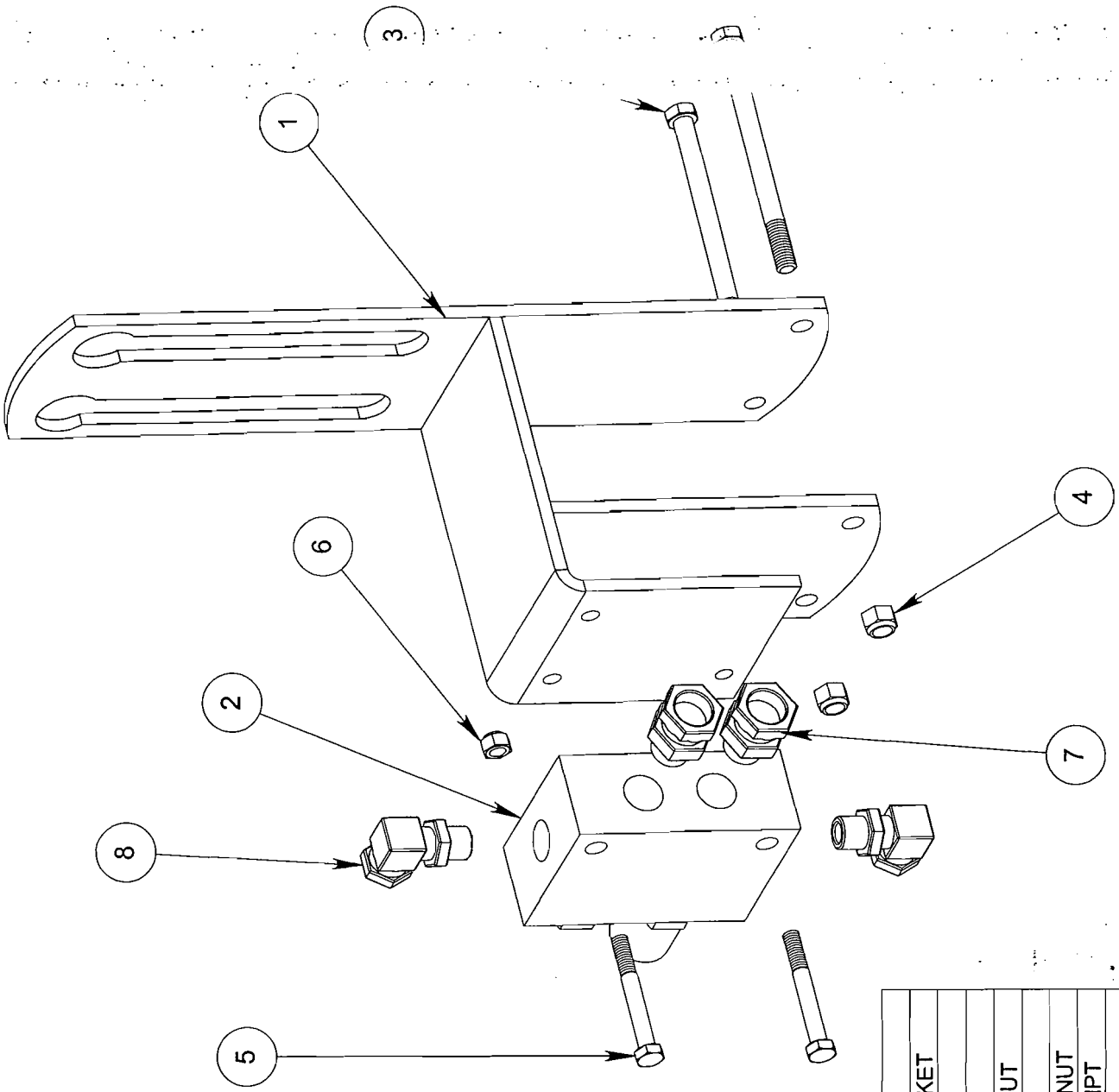
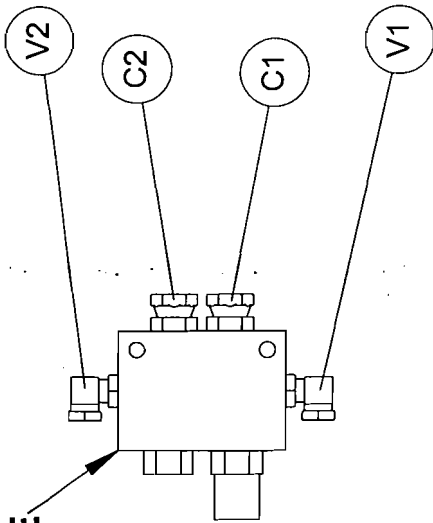
UNFOLD PROTECTION VALVE (801135)



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703820	RIGHT CENTER TRUSS - WO
2	1	901415	SHANK ASSY. W/ TOP PLATE
3	1	801135	UNFOLD PROTECTION VALVE W/HARDWARE

UNFOLD PROTECTION VALVE PLACEMENT

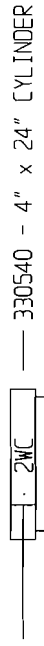
VALVE



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	703422	ANTI-CREEP VALVE BRACKET
2	1	330553	ANTI-CREEP VALVE
3	2	150221	3/8 X 5 HHCS GR2 ZC
4	2	150505	3/8 NYLON INSERT LOCKNUT
5	2	150350	5/16 X 2 1/2 HHCS GR2 ZC
6	2	150506	5/16 NYLON INSERT LOCKNUT
7	2	330274	3/4M X 3/8F SWIF ADAP, NPT
8	2	330276	3/4M X 3/8F, NPT HYD EL

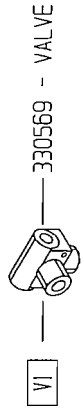
ANTICREEP VALVE KIT (900994)

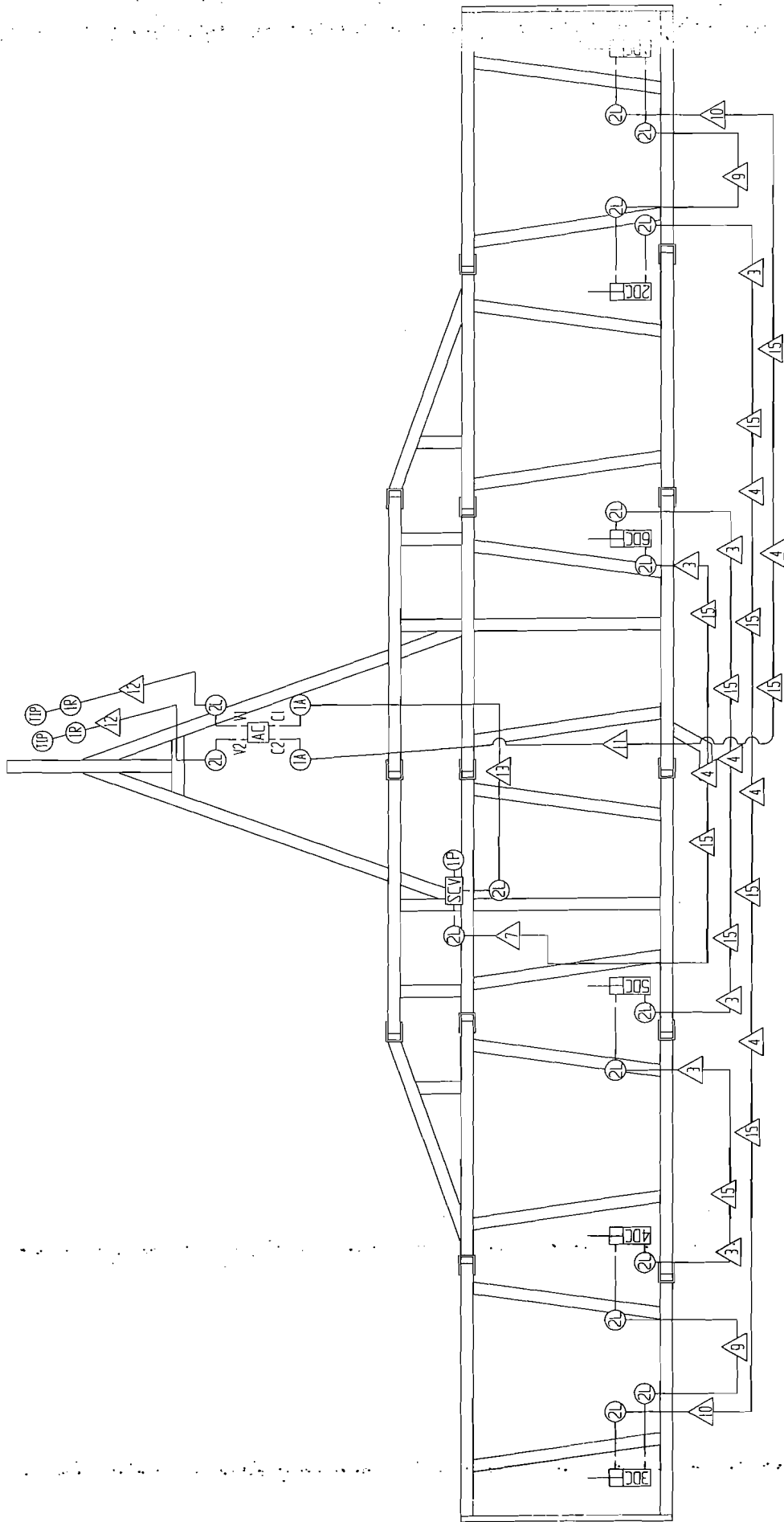
- 1BC — 330496 - 2 3/4" x 10" REPHASING CYLINDER
- 2DC — 330381 - 3" x 10" REPHASING CYLINDER
- 3DC — 330382 - 3 1/4" x 10" REPHASING CYLINDER
- 4DC — 330434 - 3 1/2" x 10" REPHASING CYLINDER
- 5DC — 330435 - 3 3/4" x 10" REPHASING CYLINDER
- 6DC — 330495 - 4" x 10" REPHASING CYLINDER



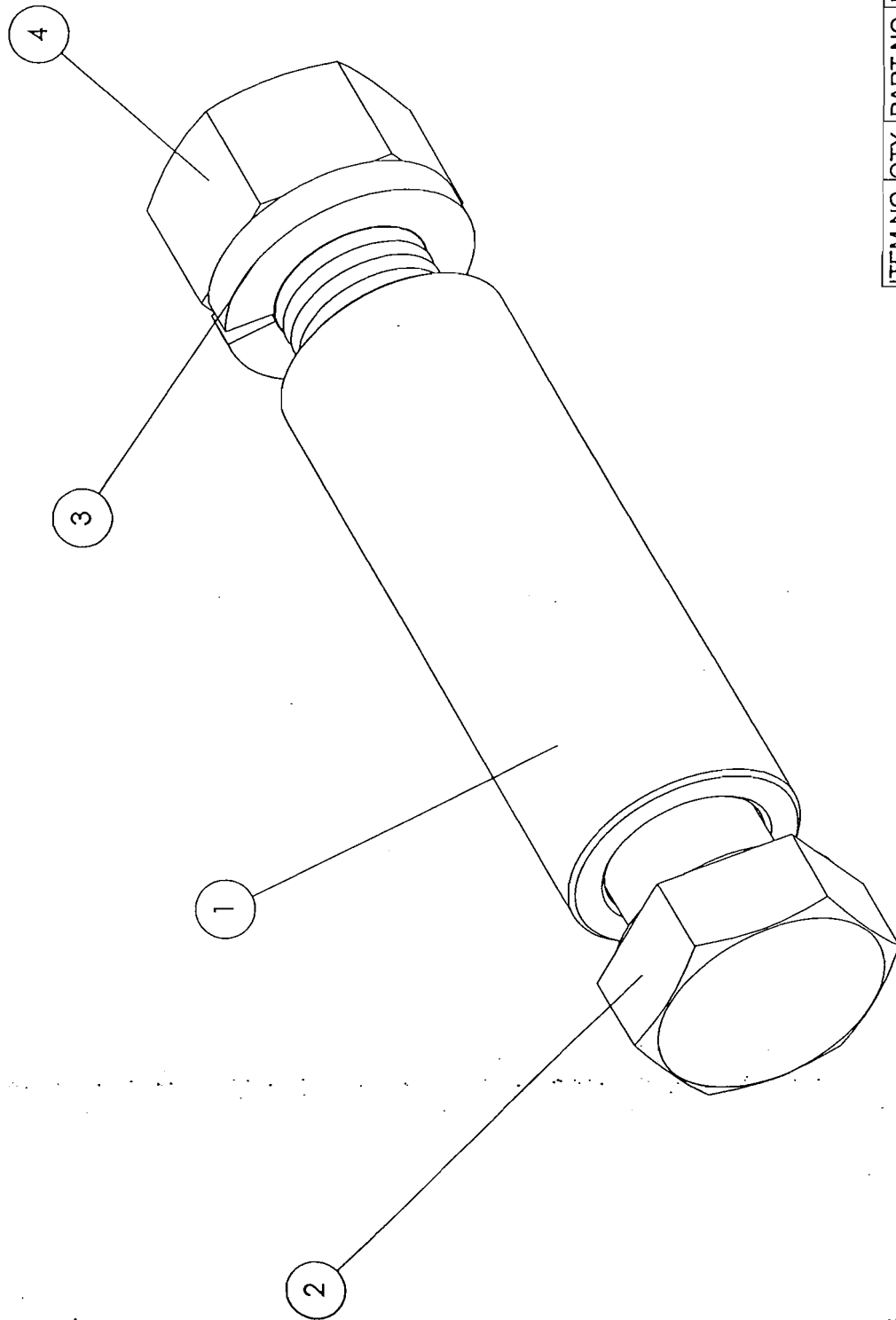
- 1 — 802309 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 10 INCHES.
- 2 — 802126 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 18 INCHES.
- 3 — 800350 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 26 INCHES.
- 4 — 800294 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 34 INCHES.
- 5 — 800808 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 47.5 INCHES.
- 6 — 800793 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 60 INCHES.
- 7 — 802100 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 78 INCHES.
- 8 — 802184 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 87 INCHES.
- 9 — 800359 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 101 INCHES.
- 10 — 800970 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 112 INCHES.
- 11 — 800363 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 136 INCHES.
- 12 — 802232 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 141 INCHES.
- 13 — 800374 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 153 INCHES.
- 14 — 802228 - 3/8" WIRE HYDRAULIC HOSE ASSEMBLY - 201 INCHES.
- 15 — 802184 - 3/8" STEEL HYDRAULIC LINE - 48 INCHES.

- 1L — 330275 - 90 DEGREE ELBOW 3/4" - 16 MALE x 3/8" NPT FEMALE W/REST
- 2L — 330276 - 90 DEGREE ELBOW 3/4" - 16 MALE x 3/8" NPT FEMALE
- 1T — 330201 - 3/8" FEMALE TEE
- 2T — 330278 - 3/4" MALE x 3/8" FEMALE TEE
- 3T — 330367 - 1/2" MALE x 3/8" FEMALE SWIVEL TEE
- 4T — 330277 - 3/4" MALE x 3/8" FEMALE TEE W/RESTRICTOR
- 1R — 330173 - 1/2" x 3/8" REDUCER BUSHING
- 2R — 330281 - 1/2" x 3/8" ST. SWIVEL ADAPTER
- 1A — 330274 - SWIVEL ADAPTER 3/4" - 16 MALE x 3/8" NPT FEMALE
- 1N — 330292 - 3/8" MALE PIPE NIPPLE
- 1P — 330563 - 3/4" UNF HEX O-RING PLUG
- 1TP — 330311 - HYDRAULIC MALE TIP - 8010-4





FM 6-42 DEPTH CONTROL HYDRAULICS SCHEMATICS

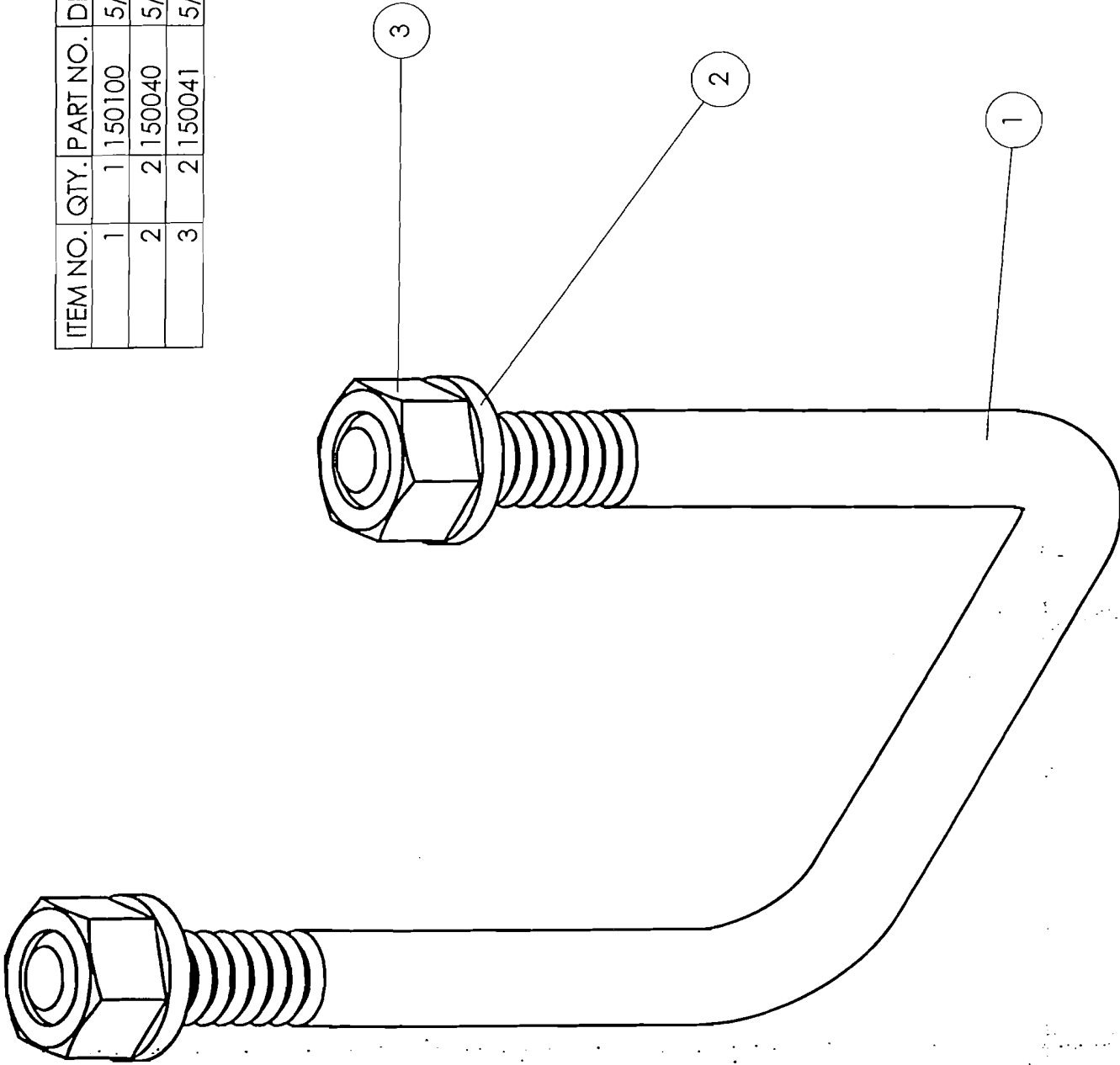


ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	504263	LOOSE HINGE BUSHING
2	1	150200	1 X 7 HHCS GR 5 ZC
3	1	150033	1" SPLIT LOCKWASHER
4	1	150034	1" HEX FINISH NUT

802512 TRUSS/FRAME HINGE/BOLT KIT

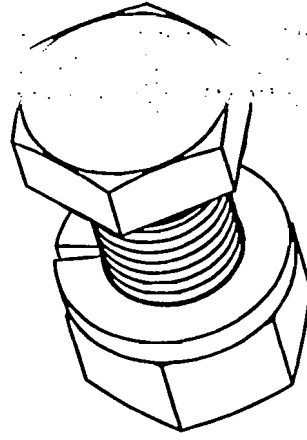
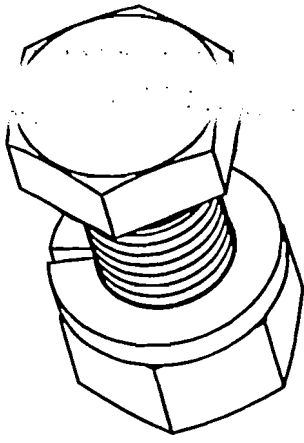
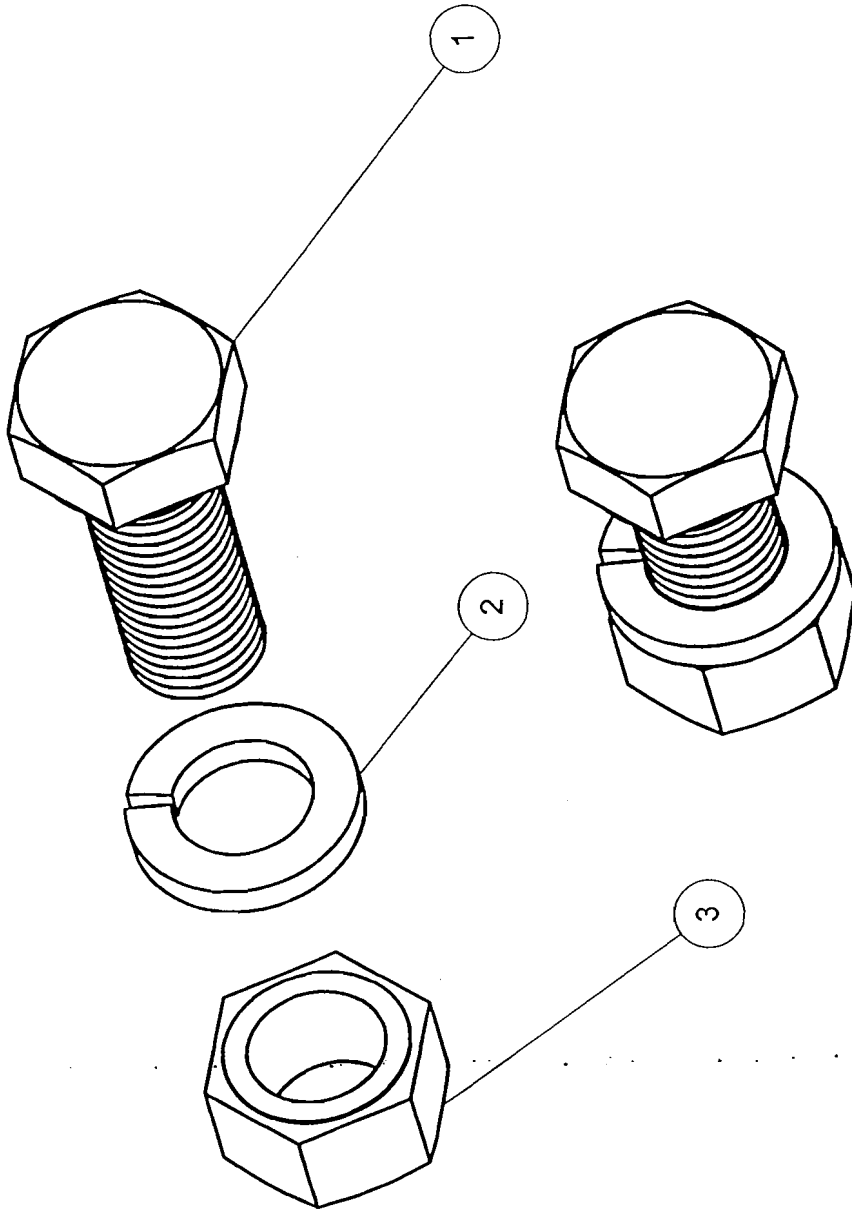
A1

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	150100	5/8 X 4 U-BOLT
2	2	150040	5/8 LOCKWASHER
3	2	150041	5/8 HEX NUT



802543 5/8 X 4 X 4 U-BOLT

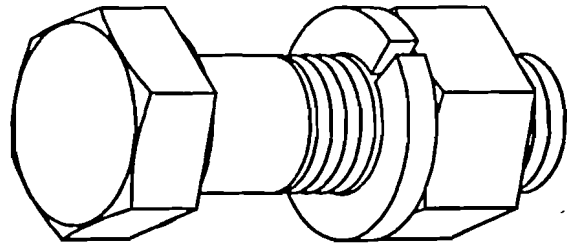
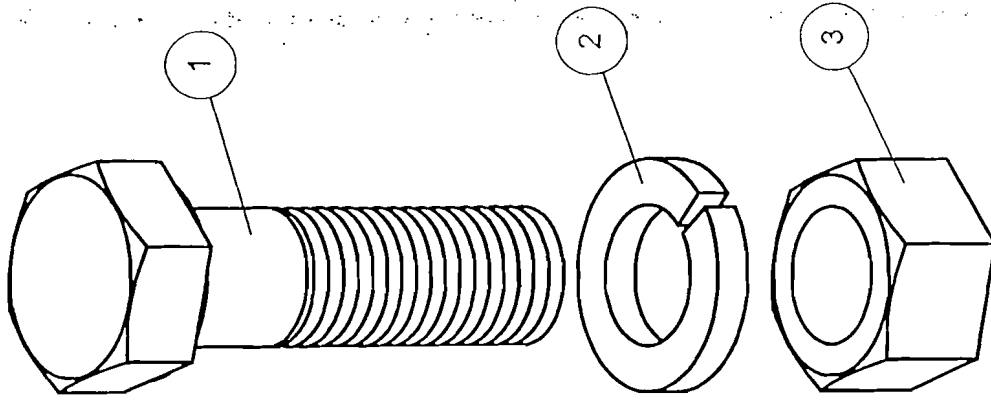
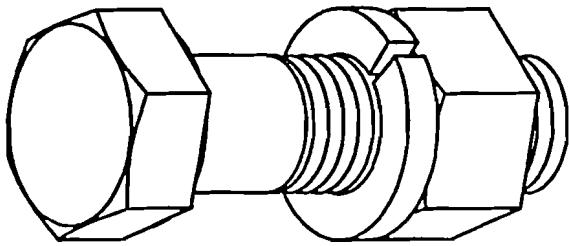
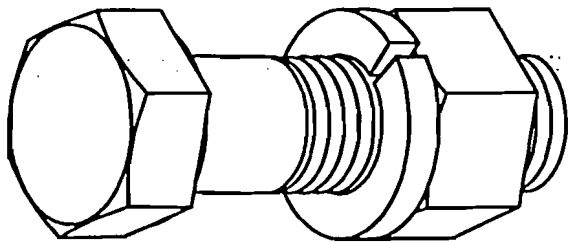
A2



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	4	150057	3/4 X 2 HHCS GR 2 ZC
2	4	150037	3/4 SPLIT LOCKWASHER ZC
3	4	150038	3/4 HEX FINISH NUT ZC

801161 ROCKSHAFT BEARING HARDWARE

A



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	4	150149	3/4 x 2-1/2 HHCS GR 5 ZC
2	4	150037	3/4 SPLIT LOCKWASHER ZC
3	4	150038	3/4 HEX FINISH NUT ZC

801132 WALKING DUAL AXLE BOLT KIT

A4

ASSEMBLY INSTRUCTIONS FOR FM6-42

1. BEGIN BY PUTTING ANGLE ZERKS IN ALL HINGE POINTS AND STRAIGHT ZERKS IN ALL ROCKSHAFTS.

2. SET LEFT CENTER FRAME ON STANDS SO THAT IT CAN BE SAFELY WORKED ON, UNDER AND AROUND. ATTACH THE RIGHT CENTER FRAME USING LOOSE BUSHING, 1" X 7" GRADE 5 HEX BOLTS, LOCKWASHERS AND NUTS. POSITION STANDS UNDER FRAME AND REPEAT PROCEDURE FOR INSERT WING FRAMES AND WIND FRAMES IN LIKE MANNER. TIGHTEN ALL BOLTS. NOTE: WHEN TIGHTENING THE TWO HEX NUTS AT EACH END OF THE TENSIONER ARBOR, SNUG THEM TOGETHER FLUSH WITH ENDS OF THE ARBOR; THIS WILL PROVIDE PROPER TENSION ON THE TENSIONER ARBOR COMPRESSION SPRINGS.

3. A FM6-42 MACHINE HAS TRUSS BRACES. THEY CAN NOW BE MOUNTED ON FRONT OF MACHINE USING 5/8" x 4" U-BOLTS, LOCKWASHERS AND NUTS. ALIGN CENTER HINGE POINT WITH HINGE; POINTS ON CENTER FRAME. TIGHTEN ALL BOLTS.

4. LAYOUT ROCKSHAFTS IN PROPER LOCATIONS UNDER EACH FRAME OR BACK OF MACHINE. (NOTE: THE FM6-42 MACHINE USES 8-BOLT SPINDLES ON THE 2 CENTER AXLE ARMS.) PLACE BEARINGS #300044 ON EACH END OF ROCKSHAFT AND ALIGN ROCKSHAFTS BETWEEN MOUNTING PLATES LOCATED UNDERNEATH OF FRAMES. SECURE WITH 3/4" X 2" BOLTS. MOUNT ALL ROCKSHAFTS IN LIKE MANNER. TIGHTEN ALL BOLTS. (NOTE: IF NEEDED, SHIM CAST BEARINGS USING 1/2" FLAT WASHERS TO ASSURE SNUG, BUT WORKING FIT OF ROCKSHAFTS. ALSO NOTE: WHEN STUBBLE TREADERS ARE USED THE MOUNTING BRACKETS GOES ON FIRST THEN THE ROCKSHAFT IS ASSEMBLED.)

5. INSERT 6-BOLT HUB AND SPINDLE ASSEMBLIES INTO SPINDLE TUBE ON INSERT FRAMES AND WING FRAMES.

ALIGN HOLE IN SPINDLE WITH HOLE IN TUBE AND SECURE WITH 1 1/2" X 3-1/2" BOLTS, LOCK WASHERS AND NUTS. SECURE WITH 1/2" x 4" BOLTS, LOCKWASHERS AND NUTS. TIGHTEN ALL SPINDLE BOLTS.

6. MOUNT TIRES AND WHEELS.

6.1 ON CENTER DUALS USE 9.5L - 8 PLY TIRES ON 6 BOLT WHEEL ON RIGHT CENTER AND LEFT CENTERT FRAMES. USE 11L - 8 PLY TIRES ON 6 BOLT WHEELS ON RIGHT WING, LEFT WING, RIGHT INSERT WING, AND LEFT INSERT WING.

6.2 ON ALL DUALS USE 9.5L - 8 PLY TIRES ON 6 BOLT WHEELS ON ALL FRAMES

7. SCREW ONE 1-1/2" NUT ONTO EACH DEPTH LINKAGE, LEAVING APPROXIMATELY 5" OF THE THREAD SHOWING. SLIP THE THREADED SHAFT THROUGH THE WELDED BUSHING, LOCATED AT THE FRONT OF EACH FRAME SECTION ON TOP. SCREW ON THE OTHER 1-1/2" NUT AND POSITION TO MIDDLE OF ADJUSTMENT FOR A PRELIMINARY SETTING. LOCATE ANCHOR LINKAGE ON BACK OF FRAME AND SECURE WITH 1" X 4-1/2", GRADE 5 HEX BOLT AND LOCKNUT ON THE LOWER END. THE TOP SECURES TO THE DEPTH LINKAGE ON THE TOP HOLE WITH 1" x 3" GRADE 5 BOLT AND LOCKNUT. CONTINUE SAME PROCEDURE ON ALL FRAMES. TIGHTEN LOCKNUTS; STILL ALLOWING ARMS TO PIVOT.

8. INSTALLING TONGUE: LOCATE THE TWO PIVOT BLOCKS. INSTALL 1/2" STRAIGHT ZERKS IN THE PIVOT BLOCKS AND IN THE UNDER TONGUE PIVOT. POSITION TONGUE UNDER FRONT OF MACHINE USING A FORK TRUCK OR AN WINCH TRUCK. PLACE LOOSE BUSHINGS IN PIVOT BLOCKS AND PIVOT ON TONGUE. SECURE BOTH PIVOT BLOCKS ON RIGHT CENTER WITH WITH 1" x 8-1/2" BOLTS, LOCKWASHERS, AND NUTS. LIFT UNDER TONGUE UP TO PIVOT BLOCKS AND SECURE ON BOTH SIDES WITH 1" x 8-1/2" BOLTS.

9. REFERRING TO TONGUE ASSEMBLY DRAWING PAGE, THREAD ONE 1-1/4" X 7" HEX NUT TO 2/3 OF THREAD LENGTH ON THE TONGUE ADJUSTMENT SCREW. INSERT THE ADJUSTMENT SCREW UPWARDS INTO BALL JOINT ON THE FRONT OF THE TONGUE.

10. INSERT EXTENSION TONGUE INTO TONGUE AND ATTACH 1-1/4" X 7" HEX BOLT. POSITION ADJUSTMENT SCREW BETWEEN THE TWO TABS ON THE EXTENSION TONGUE AND SECURE WITH 1" x 4" BOLT. ATTACH CAST HITCH TO 1" X 7", GRADE 5 HEX BOLTS.

11. ASSEMBLE HOSE STAND, HOSE CLEVIS, HOSE PIPE CLAMPS LEAVING SIDE HOSE CLAMPS LOCATED UNTIL PLACEMENT OF HOSES. INSERT HOSE STAND INTO EITHER BUSHING ON THE SIDE OF TONGUE PLATE. ATTACH HOSE JACK AND WRENCH TO TONGUE.

12. NOTE SCHEMATICS OF HYDRAULIC SYSTEM. LOCATE ALL DEPTH REPHASING CYLINDERS. LOOSEN PLATE BOLTS IN CYLINDER PORTS TO ALLOW THEM TO BE CONNECTED TO THE ROCKSHAFTS AND ANCHOR LINKAGES. (NOTE: CENTER CYLINDERS ON CENTER FRAMES WILL HAVE ROADSIDE LOCK-OUT ATTACHED TO RAM END WITH 1" X 3-7/8" CLEVIS THEN ATTACH ASSEMBLY TO THE ANCHOR LINKAGE. PIN ROAD LOCK-OUT IN UP POSITION WITH 3/8" X 4" CLEVIS PINS AND CLIPS PROVIDED. PIN BASE END OF 24" FOLD CYLINDERS TO ANCHORS ON CENTER FRAME. ALSO INSERT WINGS. PROP UP RAM END OF CYLINDER. DO NOT HOOK UP UNTIL HYDRAULIC SYSTEM IS CHARGED WITH OIL.) INSTALL ALL HYDRAULIC FITTINGS IN PROPER LOCATIONS AND TIGHTEN. (NOTE: RESTRICTED FITTINGS ON WING ENDS ON WINGFOLD CYLINDERS.) ASSEMBLE ALL HYDRAULIC HOSES ACCORDING TO DIAGRAM AND FASTEN THEM TO FRAMES WITH HYDRAULIC HOSE CLAMPS. CONNECT HOSES TO PUMP AND RESERVOIR.

ASSEMBLY INSTRUCTIONS FOR FM6-42

TRACTOR OR HYDRAULIC UNIT. ACTIVATE THE HYDRAULICS EXTENDING AND RETRACTING THE WINGFOLD CYLINDERS TO REMOVE AIR FROM THE SYSTEM. CYLINDERS CAN NOW BE PINNED UP TO THE WINGFOLD PLATES WITH 1 1/4" X 4-1/2" CLEVIS PINS, FLATWASHER, AND ROLL PINS. ACTIVATE HYDRAULICS TO DEPTH CONTROL CYLINDERS EXTENDING THEM TO REPHASING POSITION. HOLD THIS POSITION FOR APPROXIMATELY 2-3 MINUTES. THIS WILL PURGE AIR FROM THE SYSTEM. IF USING A TRACTOR FOR REPHASING, RUN TRACTOR AT IDLE SPEED. RETRACT AND THEN EXTEND THE CYLINDERS TO ENSURE THAT THEY ARE STROKING EVENLY AND IN PHASE WITH EACH OTHER.

13. MACHINE SHOULD BE LEFT IN UP POSITION AND BARRELS OR STANDS MAY BE REMOVED. MARK OUT SHANK PLACEMENT IN 20" CENTERS, STARTING AT REAR CENTER OF MACHINE. ASSEMBLE SHANKS (SEE DRAWING) ON MACHINE USING 5/8" X 8", GRADE 5 HEX BOLTS, LOCKWASHERS, AND NUTS. NOTICE THAT ONE 4-HOLE PLATE IS ON TOP OF THE FRAME. THEN IMMEDIATELY UNDER THE FRAME AND ON TOP OF THE SHANK IS A 5-HOLE PLATE. UNDER THE SHANK IS ANOTHER 5-HOLE PLATE. SECURE SHANK BETWEEN PLATES WITH 1/2" x 3 1/2" BOLT, LOCKWASHER, AND A NUT. ALIGN ALL SHANKS AND TIGHTEN BOLTS.

14. SECURE 26-INCH SHOVELS ON SHANKS USING 1/2" X 2-3/4" PLOW BOLTS, LOCKWASHERS, AND H.D. NUTS. INSERTING A 1/2" FLATWASHER UNDER BOTTOM SIDE OF BLADE CAN ALIGN SHOVEL POINTS UP OR DOWN. TIGHTEN BOLTS.

15. POSITION LOCK-UP ARMS IN PROPER LOCATIONS AND SECURE WITH 5/8" X 4" U-BOLTS, LOCKWASHER, AND HEX NUTS.

16. FM6-42 USES 2 GAUGE WHEEL ASSEMBLIES. MOUNT ONE ON RIGHT AND LEFT INSERT WING IN POSITION AS SHOWN USING CLAMP PLATES, 5/8" X 6" HEX BOLTS, LOCKWASHERS, AND HEX NUTS. TIGHTEN SECURELY.

LEVELING MACHINE

LEVELING THE MACHINE CAN BE DONE IN THE FIELD OR ON THE LOT. IN EITHER CASE, THERE SHOULD BE WEIGHT ON THE TIRES SHOULD BE PROPERLY INFLATED. IF IN THE FIELD, THE SHOVELS SHOULD BE PULLED IN THE GROUND TO A WORKING DEPTH. IF ADJUSTMENTS ARE MADE WHILE ON THE LOT, EQUAL LENGTH DONUT SPACERS SHOULD BE PLACED ON LARGEST AND SMALLEST CYLINDERS. THESE SPACERS SHOULD ALLOW THE MACHINE TO BE LOWERED TO WITHIN 1" OF THE GROUND. MEASURE THE SPINDLE HEIGHTS ON EACH SECTION AND NOTE MEASUREMENTS. (MEASURE FROM THE TOP OF THE SPINDLE TO A STRAIGHT EDGE PLACED ACROSS THE TOP OF THE FRAME.) AS THE 2 CENTER AXLE ARM SPINDLES ARE LARGER IN DIAMETER, SUBTRACT 1/8" FROM WING SPINDLE MEASUREMENTS TO MATCH THE LEVEL ON CENTER FRAME SPINDLES. WHEN LEVELING THE MACHINE WITH 12.5L TIRES, SUBTRACT 5/8" FOR THE LARGER TIRES (THAT WOULD BE A TOTAL OF 3/4" WITH THE LARGER TIRE AND SPINDLE)

ALL MEASUREMENTS SHOULD CORRESPOND. IF A DIFFERENCE IS FOUND, LOOSEN THE 1-1/2" NUTS ON THE DEPTH LINKAGE AND ADJUST EITHER IN OR OUT UNTIL THE DIMENSIONS ARE EQUAL (ALL ADJUSTMENTS MUST BE MADE WITH THE WEIGHT ON THE TIRES.) AFTER ADJUSTING, TIGHTEN THE 1-1/2" NUTS. TILLAGE DEPTH ADJUSTMENTS

SHOULD BE MADE BY USING THE SINGLE POINT DEPTH CONTROL.

OPERATION & MAINTENANCE INSTRUCTIONS

OPERATION OF MACHINE

1. CHECK ALL HARDWARE FOR TIGHTNESS DURING BREAK-IN USE OF A NEW MACHINE.
2. VISUALLY CHECK TIRE INFLATION EACH DAY.
3. CHECK SHOVEL MOUNTING BOLTS FOR TIGHTNESS EACH DAY.
4. OVER A PERIOD OF TIME (i.e. 2 HOURS WORKING) THE PHASING CYLINDERS MAY BECOME UNBALANCED DUE TO SMALL AMOUNTS OF SEAL BY-PASS. TO REPHASE THE CYLINDER NECESSARY TO EXTEND THEM TO THE REPHASING POSITION FOR APPROXIMATELY THIRTY (30) SECONDS TO A MINUTE. DURING TURNS AT CORNERS OF THE FIELD OR TURN-TURNS, THE REPHASING CAN BE DONE BY HOLDING THE TRACTOR LEVER IN THE UP POSITION FOR THE DURATION OF THE TURN. RETRACT AND THEN EXTEND THE CYLINDERS ENSURE THAT THEY ARE STROKING EVENLY AND IN PHASE WITH EACH OTHER.

LUBRICATION

1. WHEEL HUBS ARE PROVIDED WITH PLUGGED GREASE ZERK HOLES TO ACCOMMODATE THOSE OWNERS WHO PREFER TO ADD GREASE TO HUBS BETWEEN REPACKINGS. FOLLOW RECOMMENDED LUBRICATION IS TO ANNUALLY REPACK THE HUB BEARINGS.

GREASE POINTS	DAILY	WEEKLY	6-MONTH
HINGE POINTS		✓	
ROCKSHAFT BEARINGS	✓		
COULTERS	✓		
WALKING DUALS		✓	
RATCHET JACK			✓

WINTERIZING MACHINE

1. WHEN FINISHED USING MACHINE FOR THE SEASON OR STORING MACHINE FOR AN EXTENDED PERIOD OF TIME, THESE MEASURES WILL HELP ENSURE THAT YOUR MACHINE WILL BE IN GOOD OPERATING CONDITION FOR THE NEXT SEASON.
 1. LUBRICATE ALL GREASE POINTS.
 2. UNFOLD MACHINE AND REST MACHINE ON SHOVELS TO RELIEVE HYDRAULIC PRESSURE. (AS THE SUN WARMS THE MACHINE, THE HYDRAULIC OIL IN THE SYSTEM EXPANDS FOR EVERY DEGREE OF INCREASE IN TEMPERATURE. UNDER CERTAIN CONDITIONS, THE OIL COULD EXPAND ENOUGH TO BLOW OUT THE ROD SEALS.)
 3. PUT A LIGHT COATING OF GREASE ON THE EXPOSED CYLINDER RODS. THIS WILL PREVENT EXPOSURE TO THE ELEMENTS FROM CORRODING THE ROD.



COULTERS - FALLOW MASTER

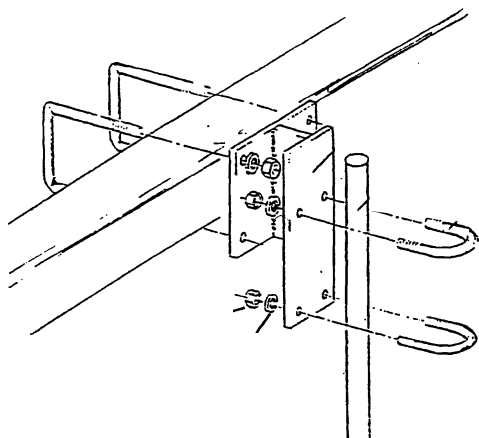
INSTALLATION MANUAL



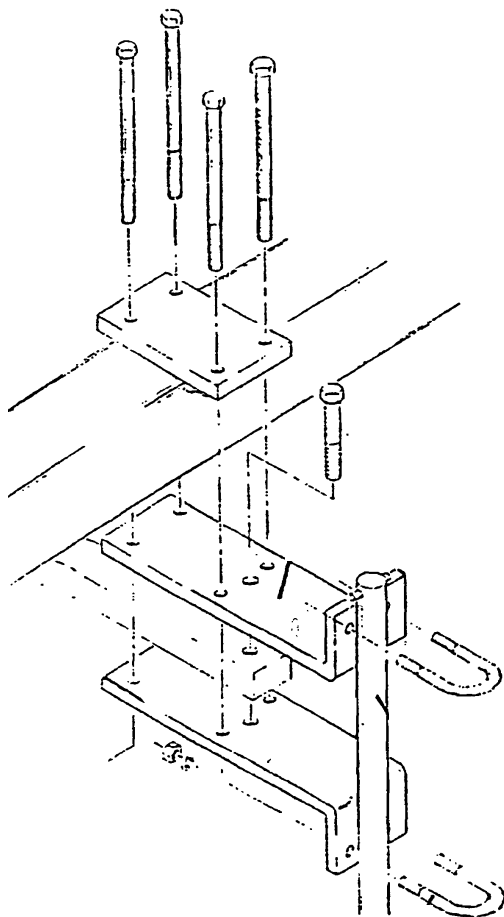
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COULTER DESCRIPTIONS AND SHANK MOUNT ILLUSTRATIONS

1.

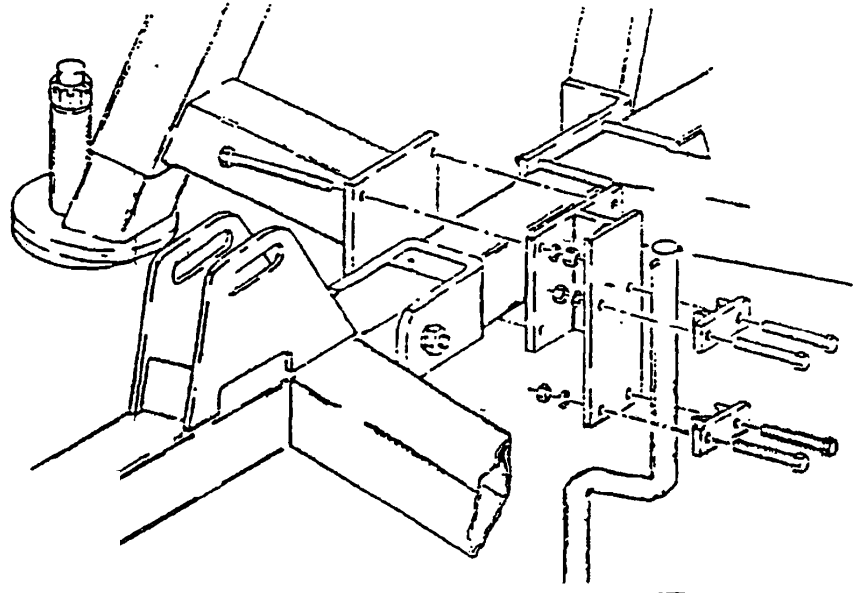


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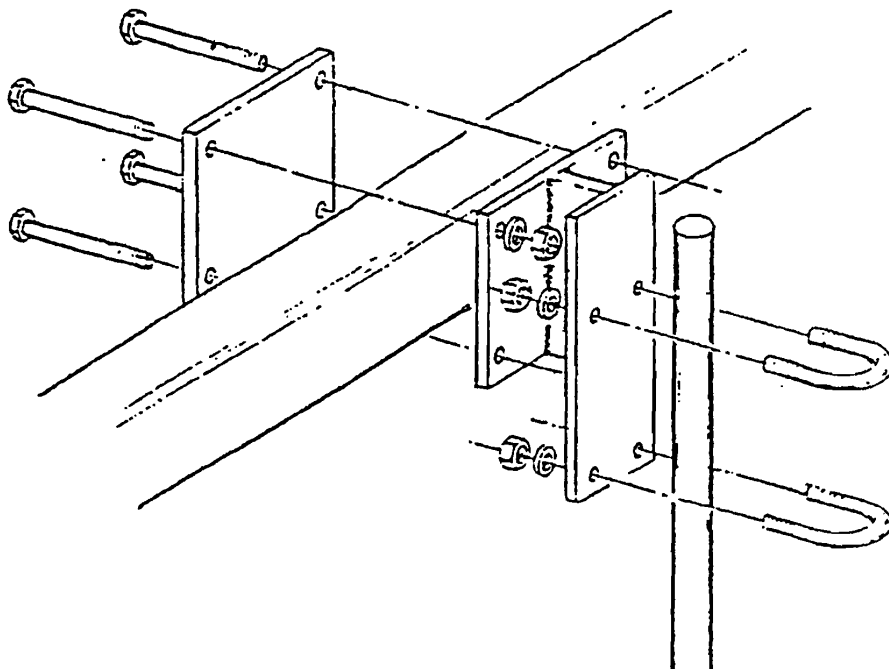


COULTER DESCRIPTIONS AND SHANK MOUNT ILLUSTRATIONS

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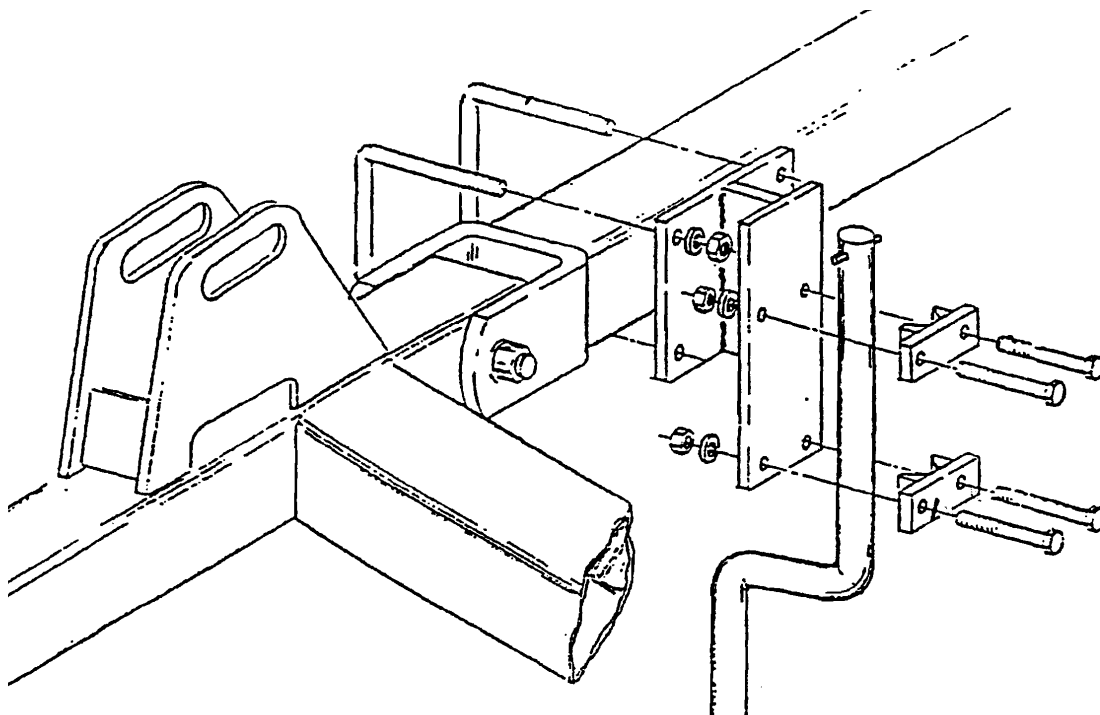


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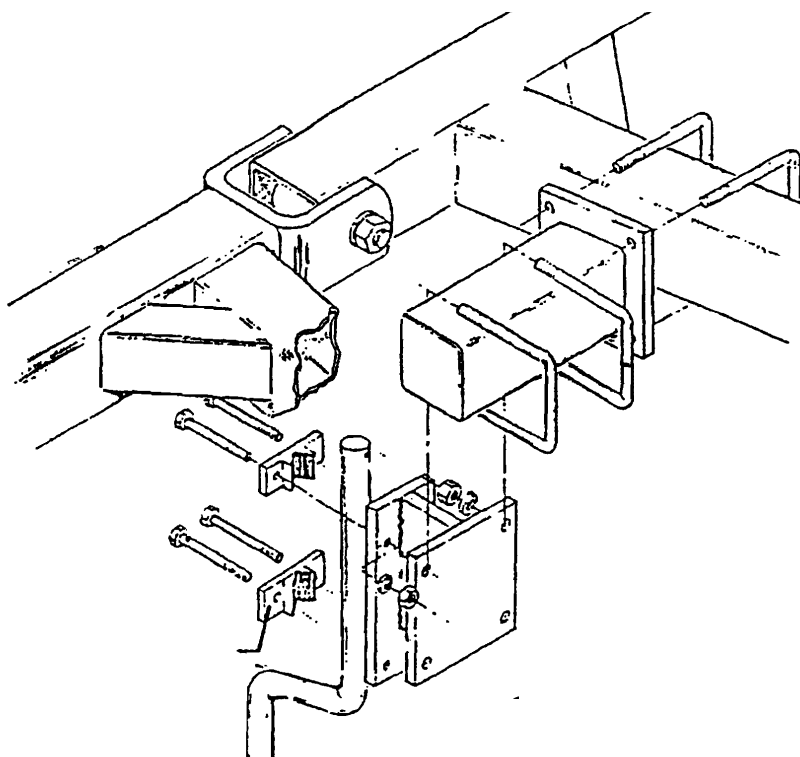


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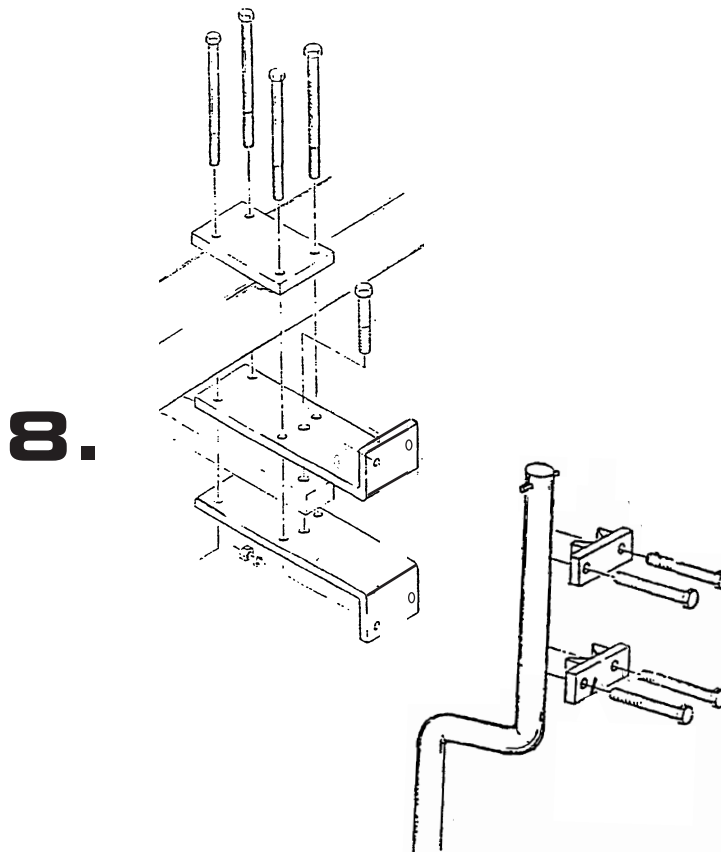
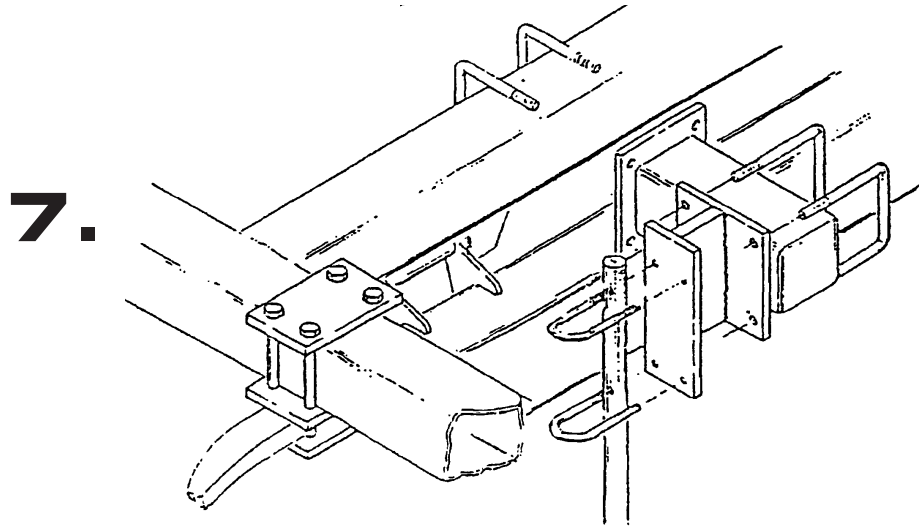
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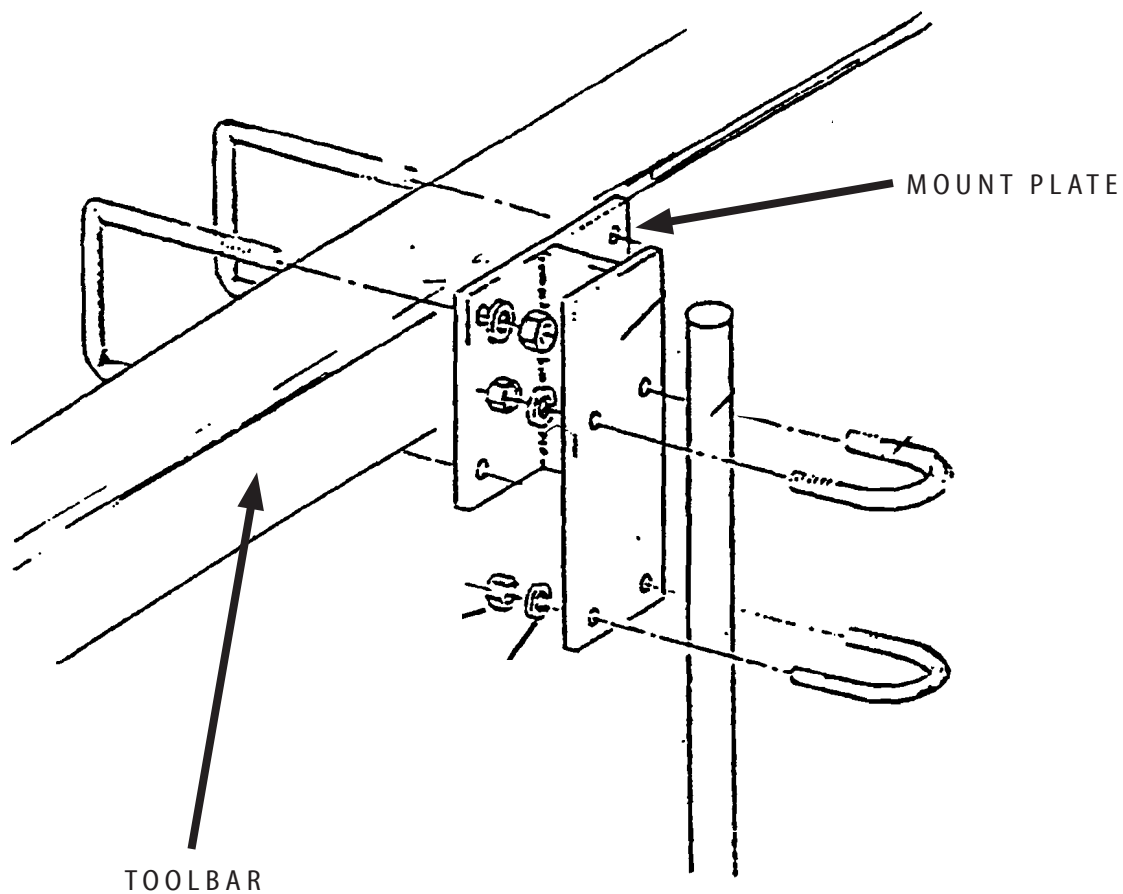
COULTER DESCRIPTIONS AND SHANK MOUNT ILLUSTRATIONS



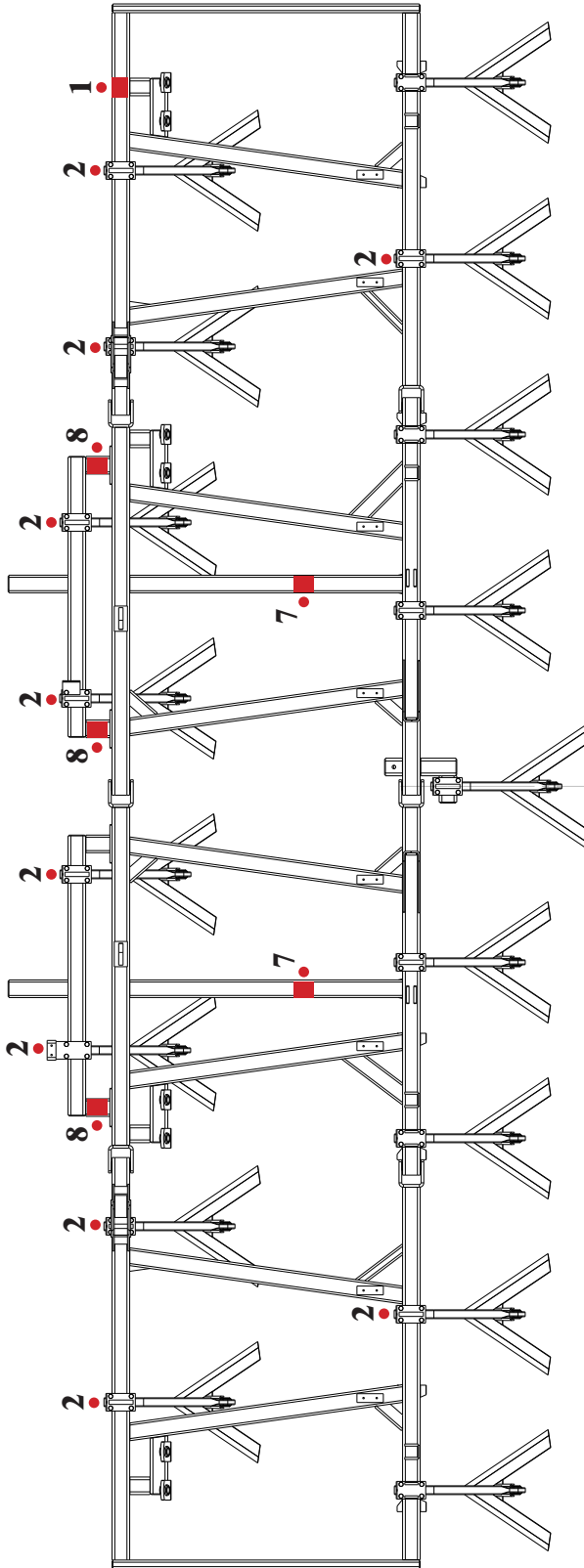
COULTER DESCRIPTIONS AND SHANK MOUNT ILLUSTRATIONS

SPACER PLATE IS PLACED BETWEEN THE MOUNT PLATE AND TOOLBAR
(USE LONGER U-BOLTS WHEN MOUNTING A #9)

9.



4 section 28 foot Fallow Master Coulters mounting locations:

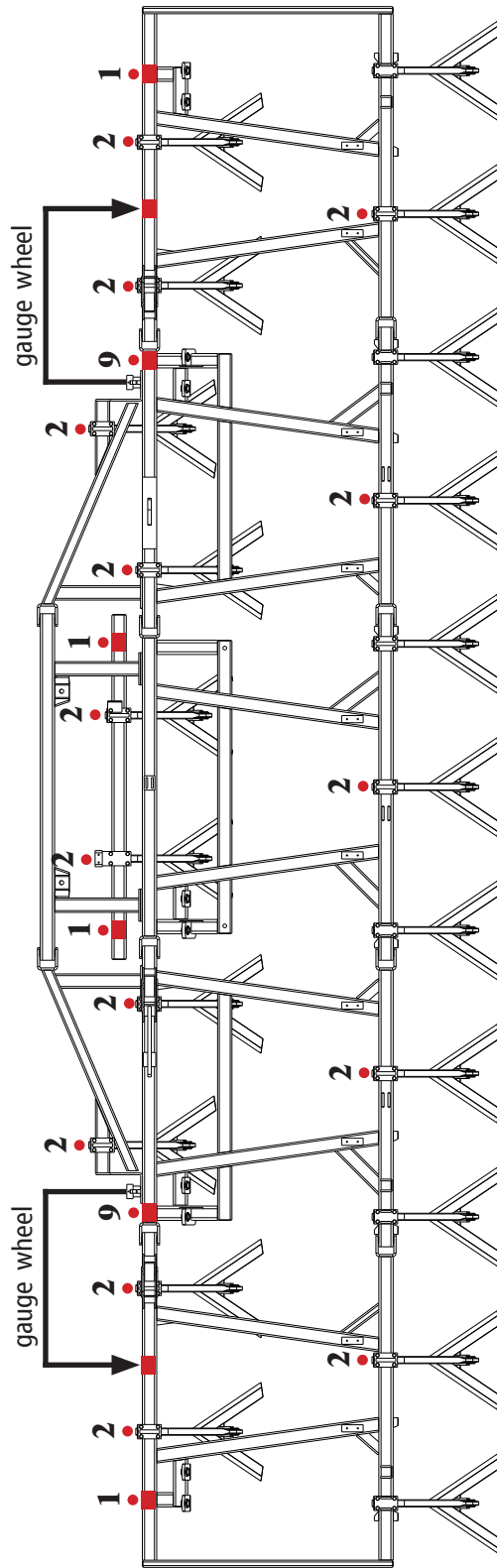


The 4 section 28 foot Fallow Master Coulters package consists of:

- three - #8's (offset shanks)
- two - #1's (straight shanks)
- two - #7's (straight shanks)
- ten - #2's (straight shanks)

- 1** = SHANK MOUNT STYLE
- = COULTER POSITION
- = MOUNT POSITION

5 section 35 foot Fallow Master Coulters mounting locations:



The 5 section 35 foot Fallow Master Coulters package consists of:

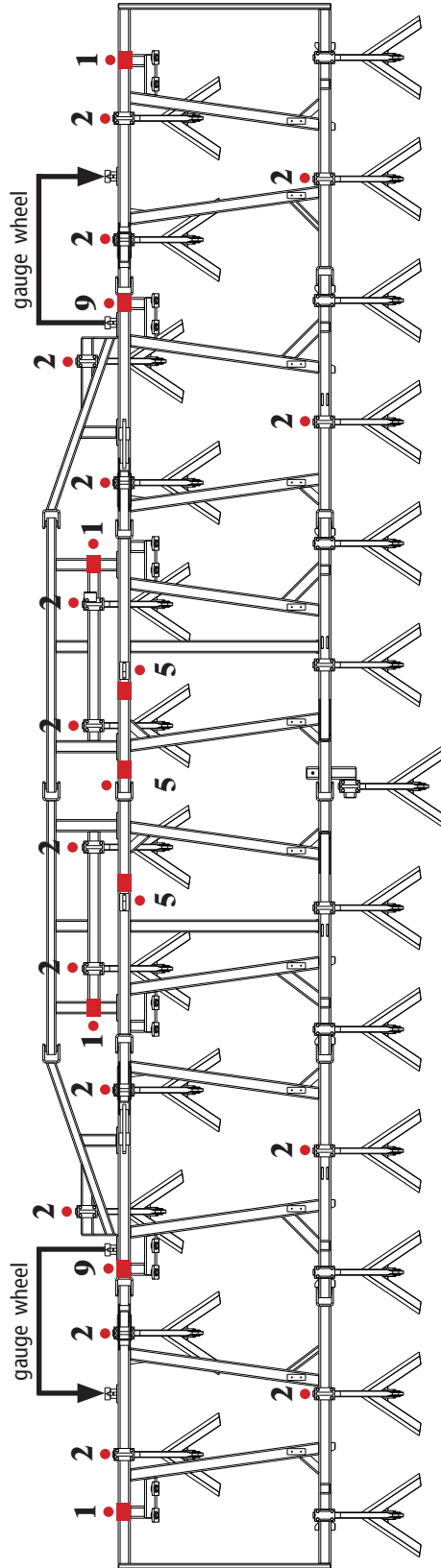
- two - #9's (straight shanks)
- fifteen - #2's (straight shanks)
- four - #1's (straight shanks)

1 = SHANK MOUNT STYLE

● = COULTERS POSITION

■ = MOUNT POSITION

6 section 42 foot Fallow Master Coulters mounting locations:



The 6 section 42 foot Fallow Master Coulters package consists of:

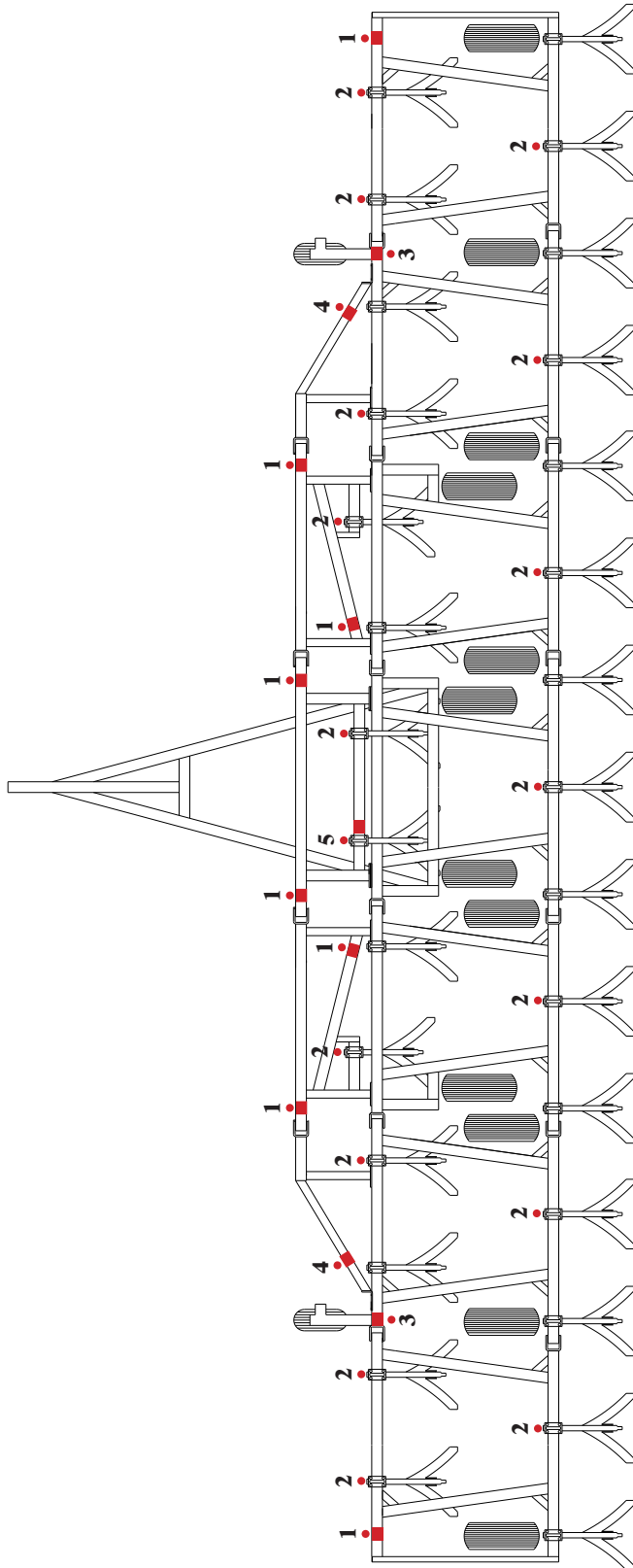
- two - #9's (straight shanks)
- three - #5's (offset shanks)
- four - #1's (straight shanks)
- sixteen - #2's (straight shanks)

1 = SHANK MOUNT STYLE

● = COULTER POSITION

■ = MOUNT POSITION

7 section 49 foot Fallow Master Coulters mounting locations:



The 7 section 49 foot Fallow Master Coulters package consists of:

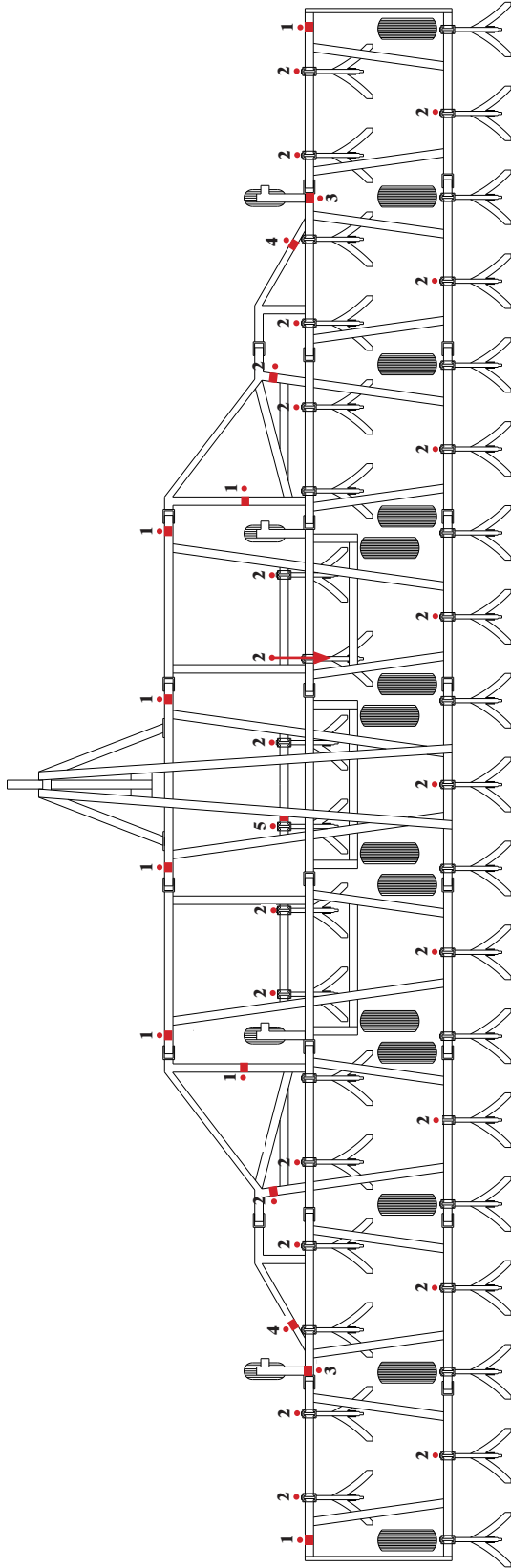
- eight - #1's (straight shanks)
- sixteen - #2's (straight shanks)
- two - #3's (offset shanks)
- two - #4's (straight shanks)
- one - #5 (offset shank)

I = SHANK MOUNT STYLE

● = COULTER POSITION

■ = MOUNT POSITION

9 section 63 foot Fallow Master Coulters mounting locations:



The 9 section 63 foot Fallow Master Coulters package consists of:

twenty four - #2's (straight shanks)

two - #3's (offset shanks)

eight - #1's (straight shanks)

two - #4's (straight shanks)

one - #5 (offset shank)

1 = SHANK MOUNT STYLE

● = COULTER POSITION

■ = MOUNT POSITION