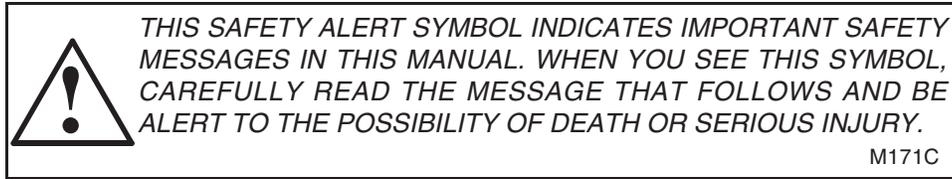


Product: New Holland 340 Chisel Plow Service Repair Manual  
Full Download: <https://www.arepairmanual.com/downloads/new-holland-340-chisel-plow-service-repair-manual/>

# 340 Chisel Plow

## Service Manual



If Safety Decals on this machine use the words **Danger, Warning or Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as   and  if used, are RED.



# WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

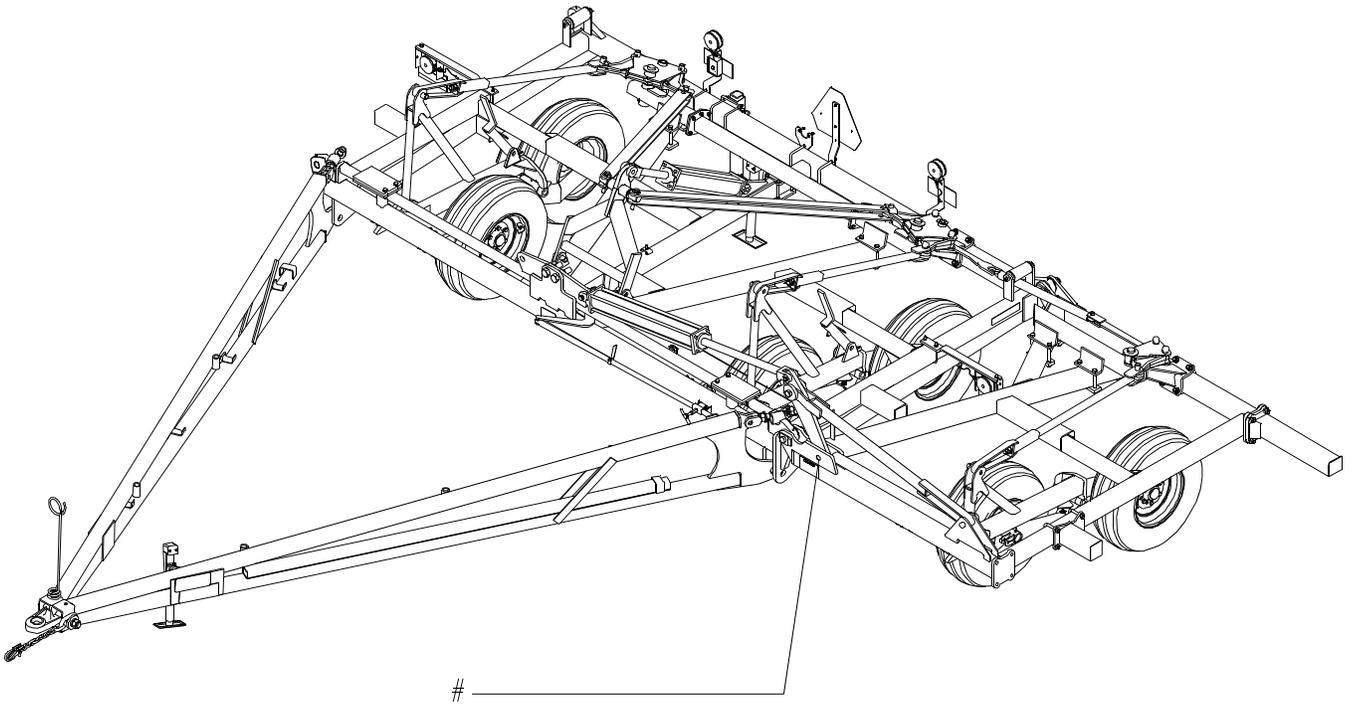
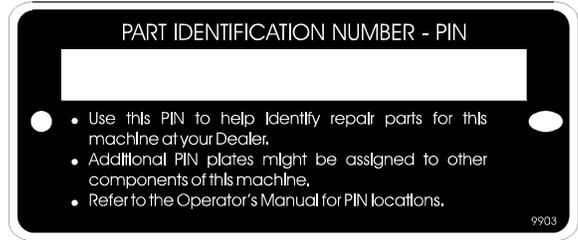
It is your responsibility to observe pertinent laws and regulations and follow CNH America LLC instructions on machine operation and maintenance.

## REPAIR PARTS IDENTIFICATION

Your machine has a serial number plate attached to identify the components installed on the machine. The plate looks like the sample with a number stamped on.

For easy reference, locate the plate at the location shown on the figure. Record the number on this sheet. When requiring repair parts, take this number into your dealer.

**NOTE:** The serial plate was used on machines manufactured to June 2004.



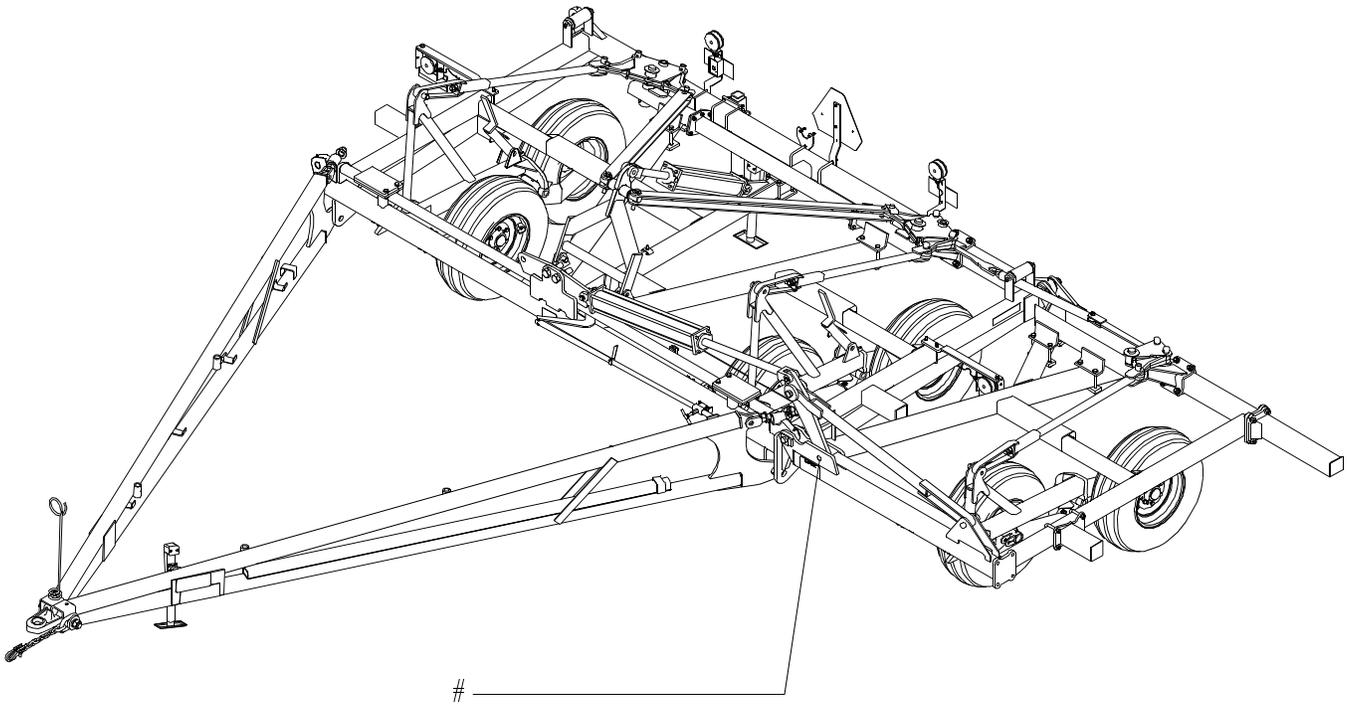
204472C

## REPAIR PARTS

Your machine has a Product Identification Number (PIN) plate. The plate looks like the sample at right. For easy reference, locate the PIN plate at the location shown on the figure below. Record the number on this sheet. When requiring repair parts, take this number into your dealer.

**NOTE:** This PIN plate is found on machines manufactured after June 2004.

<b>CNH Canada, Ltd.</b> Toronto, ON M5X 1B8 Canada		
<b>flexicoil</b>		
Made In Canada		
○	Model Number	○
	Product Identification Number	



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## SERVICE BULLETINS

Refer to the list of Service Bulletins for bulletin information. Contact your dealer for more information.

NAME	DESCRIPTION	DATE ISSUED
<p>Service Bulletin #01 Shim, Rear Jack and Transport Lock Update Kit</p>	<p>1. On all sizes of 340 cultivators, the wing lift hydraulic cylinder end cap will contact the frame of the cultivator. Also on the 40' - 340 cultivators, the trip assemblies on the outer stubs contact each other while in transport position.</p> <p>Install shim plates to move wings apart while in transport and it will lift hydraulic cylinder away from the cultivator frame.</p> <p>2. 340 cultivators that are configured with options like mounted packers and harrows cause negative hitch weight.</p> <p>Install new jack stands on rear bar of center section to eliminate the units tendency to tip backwards.</p> <p>3. Auto transport locks may fail if they are left engaged when winging down the unit. The spring may over extended causing insufficient movement in the transport lock arm.</p> <p>Install the cable/spring assembly and spring to correct problem.</p> <p>All installation items above are part of TH-411K, Shim, Rear Jack, and Trans Lock 340 Cultivator.</p>	<p>February 1997</p>
<p>Service Bulletin #02 Gauge Wheel Spring Return Kit</p>	<p>The gauge wheels on the 340 cultivator flop ahead when the cultivator is lifted out of the ground. When lowered back into field position the gauge wheels tend to gouge before returning to working position.</p> <p>Install spring return kit, TH-456K, to prevent gouging when cultivator is lowered into working position.</p>	<p>February 1997</p>
<p>Service Bulletin #03 Bell Crank Support</p>	<p>Under high draft applications there is the potential for the 3' extension bell crank mount to fail.</p> <p>TH-482K kit provides additional support to the bell crank mount.</p>	<p>February 2000</p>

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# **SECTION 1**

## **SAFETY**

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**SAFETY**

**SAFETY-ALERT SYMBOL**



This symbol is used to denote possible danger and care should be taken to prevent bodily injury. This symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

**THREE WORDS USED IN CONJUNCTION WITH THE SAFETY-ALERT SYMBOL:**

**DANGER!**



Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

**WARNING!**



Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

**CAUTION!**



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. The color associated with Caution is YELLOW.

## GENERAL SAFETY PRACTICES

REVIEW this manual and operator's manual before servicing equipment.

NEVER allow anyone unfamiliar, untrained, or complacent to operate the cultivator.

ALWAYS USE the jack supplied when unhooking the cultivator.

NEVER transport the cultivator at speeds higher than 30 km/h (18 mph).

MAINTAIN YOUR CULTIVATOR in proper working condition. Unauthorized modifications to the machine may impair function and/or safety and affect machine life.

BE SURE the cultivator is securely fastened to a large farm tractor or an air cart that is attached to a large farm tractor before operating hydraulics.

USE EXTREME CARE when making adjustments.

KEEP CHILDREN AWAY from all farm equipment.

## SERVICING SAFETY PRECAUTIONS

BLOCK the wheels to prevent movement when servicing.

BE SURE the press wheels are blocked and wing lock pins are in place before servicing or adjusting opener assemblies or working on the cultivator.

### CAUTION!



The tractor engine should be stopped and the wheels blocked to prevent any movement during servicing.

Always be sure that the depth control safety lock is in place when servicing the cultivator.

Always be sure the wings are in field position before servicing the cultivator.

Escaping hydraulic fluid is a serious hazard. Escaping hydraulic fluid that is under pressure can penetrate the skin, causing serious injury. Relieve pressure before disconnecting the hydraulic lines.

Check/tighten all connections before applying pressure.

Never use your hand to search for leaks. Use a piece of cardboard or paper. If any fluid is injected into the skin, seek immediate medical attention. Gangrene may result if the wound is not treated within a few hours. Check your hydraulic fluid containers for warnings concerning the hydraulic fluids you use.

DO NOT walk within the radius of raised cultivator wings.

**SAFETY DURING OPERATION**

DO NOT ALLOW ANYONE ON THE CULTIVATOR while operating the cultivator hydraulics.

NEVER disconnect the tractor from the cultivator while the cultivator wings are raised.

KEEP CHILDREN AWAY from the cultivator during operation.

NEVER STAND within the radius of the raised wings. Hydraulic or mechanical failure may result in rapid or uncontrolled falling of the wings.

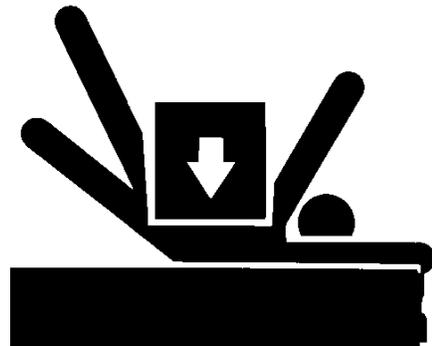
OPERATE the wings only on level ground with the depth control fully raised.



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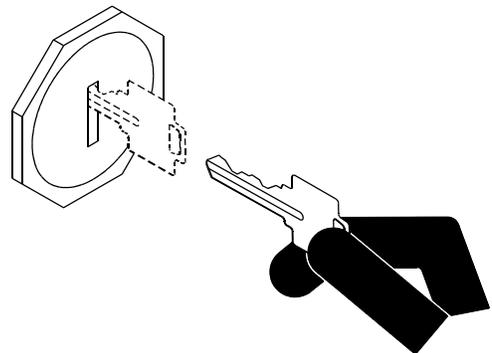
PARK ON LEVEL GROUND and block adequately.

AVOID moving machines.



098001M1

DISENGAGE POWER AND SHUT DOWN the tractor engine (remove the key from the tractor ignition), be certain that all moving parts have stopped, and all pressure in the system is relieved BEFORE cleaning, adjusting or lubricating the cultivator.



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**SECTION 1 - ⚠ SAFETY**

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READ the operators manual thoroughly.

KEEP service area clean.



098002M1

DO NOT enter tight areas.

BE CERTAIN machine is tagged 'out of order' or work area is supervised.



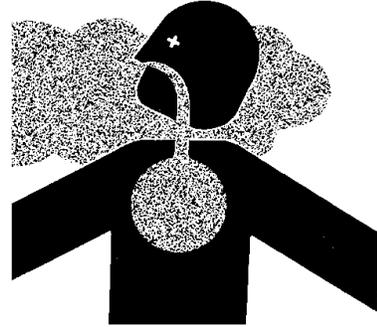
098003M1

BE CERTAIN all moving parts have stopped before servicing.



098004M1

AVOID toxic vapors. Breath clean air.



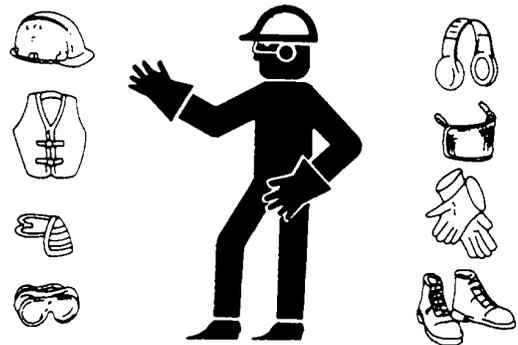
0960039S

DO NOT permit smoking.



196150S

WEAR protective clothing.



192078S

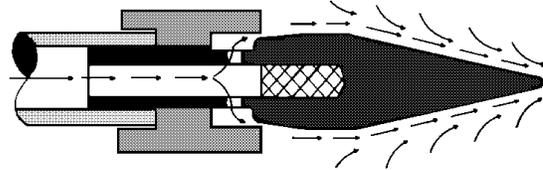
## AIR AND AIR HOSES

COMPRESSOR HOSES may move unexpectedly when suddenly disconnected.



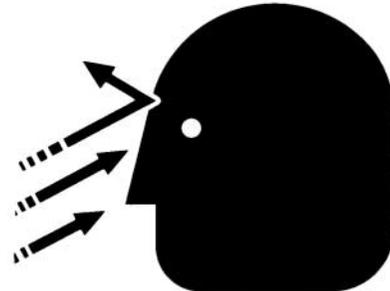
098005M1

USE PROPER air nozzles. Do not use compressed air to clean clothes or direct it toward any part of yourself.



098006M1

AVOID getting chemicals into eyes. Use eye protection.



098007M1

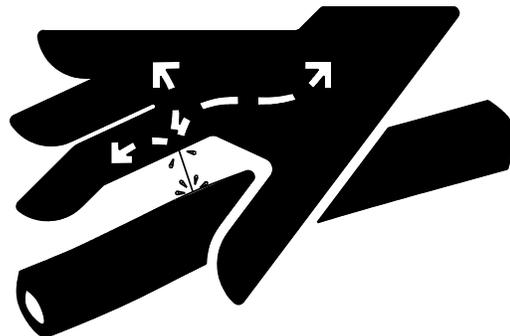
## HYDRAULICS AND HYDRAULIC LEAKS

AVOID high-pressure fluids.

ESCAPING HYDRAULIC FLUID IS A SERIOUS HAZARD. Escaping hydraulic fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting the hydraulic lines. Check/tighten all connections **BEFORE** applying pressure.

BEWARE excessive hydraulic pressure. Explosive structural failure can result.

BEWARE air locks in cylinders. Large cylinder displacements can occur without hydraulic oil flow.



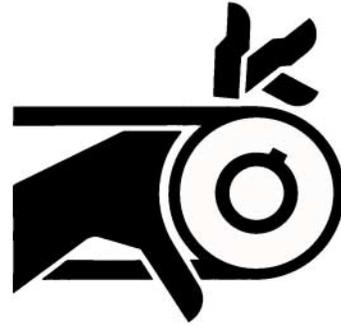
000002C

## SHIELDS

REPAIR damaged shields.

KEEP all shields in place.

BE EXTRA CAUTIOUS when repairing or servicing without protective shields.



098008M1

## ELECTRICAL

REMOVE the ground wire to avoid arcing contacts.

REMOVE GROUND WIRE when welding.



098009M1

## TIRES

USE A CAGE IF POSSIBLE when setting tires on rims.

AVOID excessive air pressure.

DO NOT OVERINFLATE tires. NEVER lean over a tire while inflating it.



0960041S

## SAFETY DURING TRANSPORT

CHECK with local authorities regarding transport on public roads. Obey all applicable laws and regulations.

ONLY TOW at a safe speed (30 km/h / 18 mph). Use caution when turning corners or meeting traffic.

BE SURE safety lighting is plugged in and that the red taillight(s), amber flashers, and amber signal lights are all working properly.

ALWAYS be certain that no one is behind or near the cultivator before moving it.

BE SURE all safety transport locks are in place before transporting the cultivator.

BE SURE the reflector decals are clearly visible from all sides of the cultivator and the 'Slow Moving Vehicle' sign is at the rear of the cultivator in clear view of overtaking traffic.

BE SURE the tractor weight is equal to or greater than the total weight of the air cart and cultivator.

BE SURE all the wheel bolts are torqued to proper specifications before transporting the cultivator.

WATCH for power poles and overhead power lines.

ALWAYS lock the tractor drawbar when transporting the cultivator.

ALWAYS park the cultivator on level ground and block the wheels before unhooking from the towing vehicle.

NEVER subject the cultivator to steep side grades while in transport position.

ALWAYS use the hitch jack supplied with the cultivator when unhooking from the tractor.

NEVER brake or decelerate during cornering.

ALWAYS enter corners slowly. SLOW the machine to turning speed before entering a corner. DO NOT decelerate while executing the turn.

## SAFETY DECALS

KEEP SAFETY DECALS CLEAN. Wipe clean when necessary.

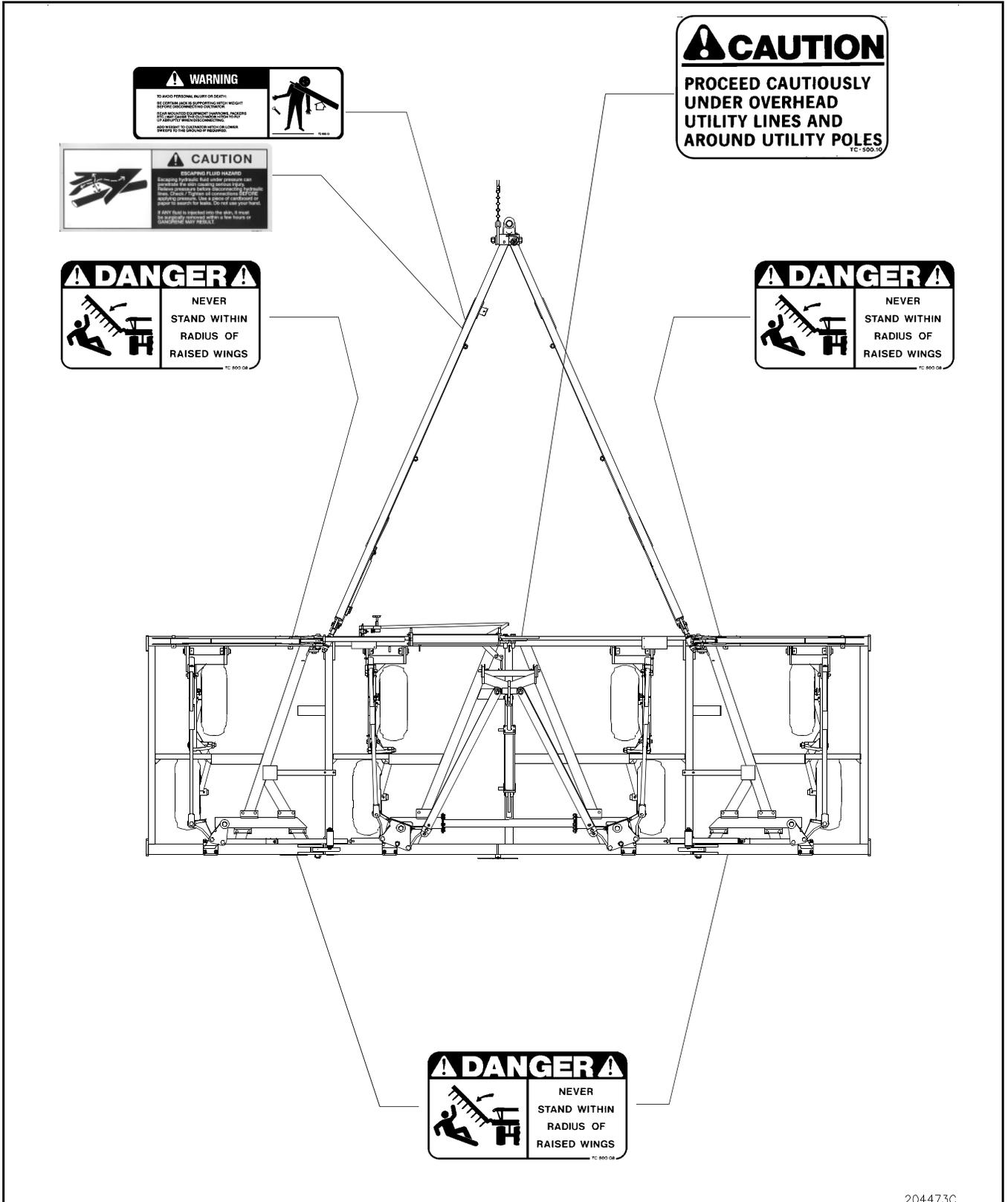
CHECK that the safety decals are not obstructed by the openers. If the decals are covered up, replace in a location that is clear to view.

REPLACE missing or unreadable decals. New decals are available from your dealer.

To replace decals:

1. Remove the old decal. Clean the area where the new decal will be affixed.
2. Remove the decal backing. Carefully affix the decal to the cultivator.
3. Work the air bubbles out from under the decal. Use a clean piece of paper or the decal backing itself.

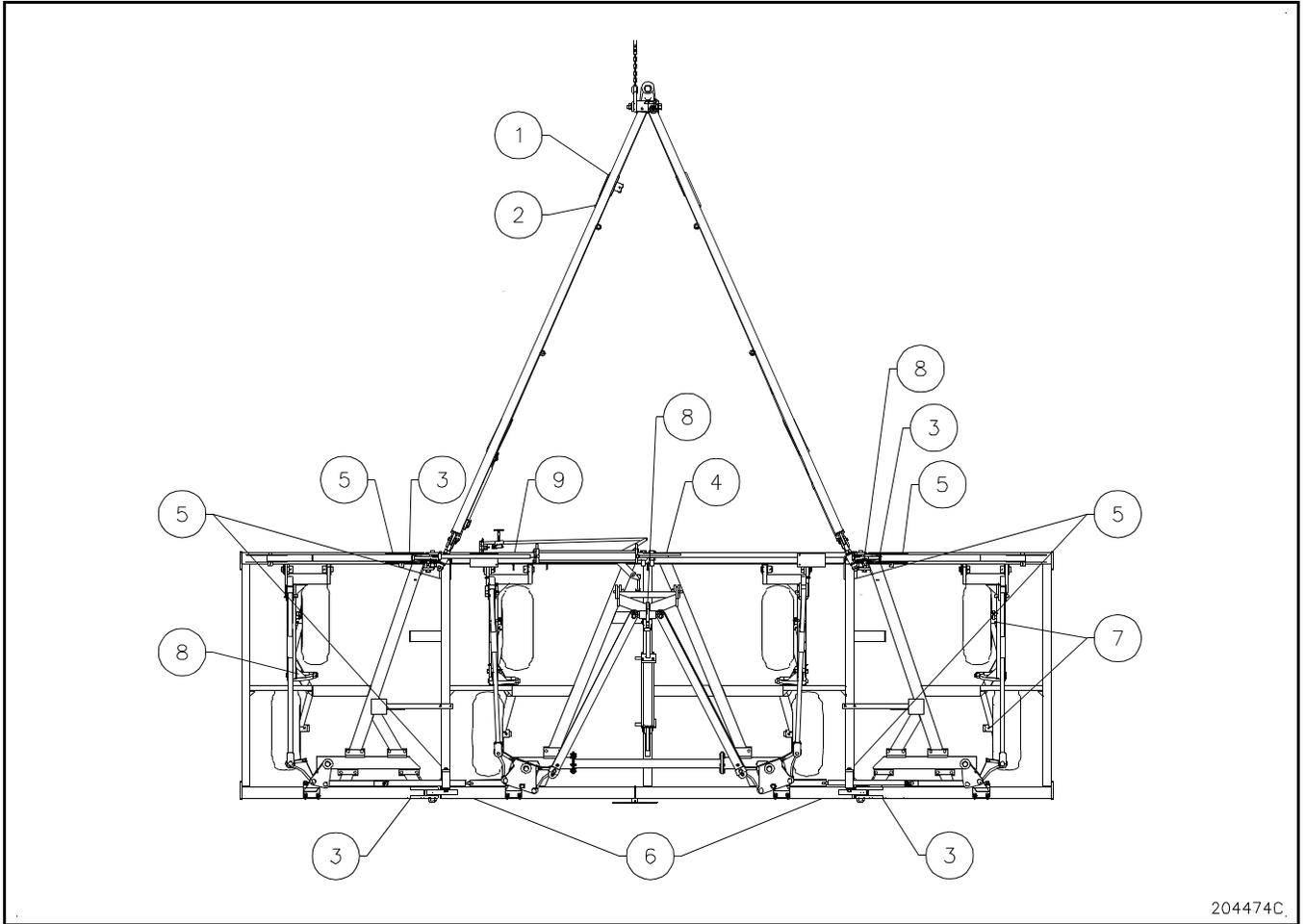
DECAL LOCATIONS



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**SECTION 1 -  SAFETY**

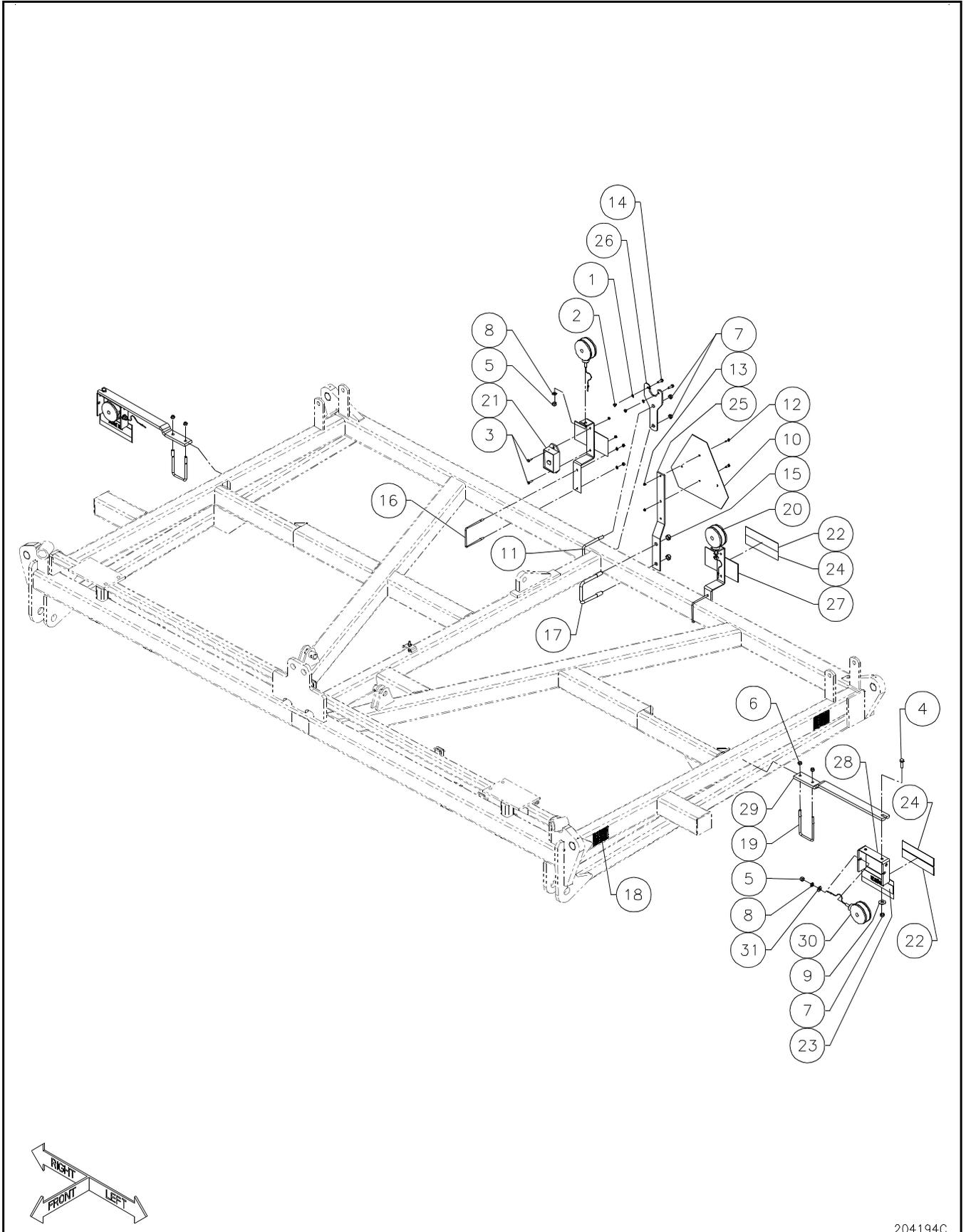
<b>REF</b>	<b>PART NUMBER</b>	<b>NAME OF DECAL</b>	<b>LOCATION</b>
1	TC-500.13	Hitch Upending	Decal located on the front left side of the hitch tube.
2	GD-500.77	Caution Hydraulics	Decal located on the front left side of the hitch tube.
3	TC-500.08	Raised Wings Danger	Decals on the front and rear wing bars near the hinge. When mounted on the front bar, the decal faces to the front of the machine.
4	TC-500.10	Caution Proceed Cautiously	Decal located at the center front of the machine.
5	22903	Reflector Amber	Side decals are located on the center section, facing outward, near the hinge.
6	22902	Reflector Red	Decals are located on the back wings, facing back, near the hinge.
7	6567	Grease 200 Hours	Decals on the walking beam, pointing toward each wheel hub (8- locations).
8	6566	Grease 50 Hours	Decal is located at the top end of the depth cylinder and swaybar connection (1- locations-straight zerk). Decals are located at wing hinges (4- locations-straight zerks). Decals are located on the walking beam, at pivot (4- locations-90 zerks). Decals at each guage wheel pivot, if so equipped (2-locations-straight zerks).
9	TH-500.02	ABCDEFGG	Decal is located on the front left side of the 2 x 2 truss tube on the center section, near the roller rest plate.



Decal Locations (Reflective and Safety)

**REFLECTOR DECALS, SLOW MOVING VEHICLE SIGN AND TRANSPORT LIGHTING**

<b>REF</b>	<b>DESCRIPTION</b>
1	WASHER, LOCK .313 YZD
2	NUT .313 UNC GR 5 YZD
3	BOLT .25 X 1 UNC GR5 YZD
4	BOLT .5 X 1.5 UNC GR5 YZD
5	NUT .5 UNC GR5 YZD
6	NUT, LOCK .5 UNC GR B YZD
7	NUT, LOCK .5 UNC GR B YZD
8	WASHER, LOCK .5 YZD
9	WASHER .563 ID YZD .5 BOLT SIZE
10	PLATE, WEARING SMV SIGN STEEL BACK 4 HOLES
11	BOLT "U" US .5 4.125W 5.25D
12	BOLT .25 X .75 UNC GR5 YZD
13	NUT, LOCK .25 UNC GR B YZD
14	BOLT .313 X 1 UNC GR5 YZD
15	NUT, LOCK .625 UNC GR B YZD
16	BOLT "U" US .313 4.125W 4.75D
17	BOLT "U" US .625 4.063W 5.375D
18	DECAL RETROREFLECTIVE AMBER
19	BOLT "U" US .438 3.125W 5.5D UNC GR5 YZD 1.5" THREAD
20	LIGHT ASSY. TAIL/SIGNAL RED
21	FLASHER UNIT MODULE, IMPLEMENT LIGHTING CONTROL
22	DECAL RETROREFLECTIVE RED
23	DECAL RETROREFLECTIVE AMBER
24	DECAL FLUORESCENT RED-ORANGE
25	BRACKET S.M.V. SIGN
26	BRACKET PLUG RECEPTICLE
27	BRACKET RED LIGHT/DECAL MNT
28	BRACKET AMBER LIGHT/DECAL MNT
29	BRACKET AMBER LIGHT MOUNT
30	LIGHT ASSY. WARNING
31	WASHER .531 X 1.062 X .095



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Transport Lighting Assembly

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# **SECTION 2**

## **ADJUSTMENTS**

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**SECTION 2 - ADJUSTMENTS**

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GENERAL SERVICE INFORMATION

**DANGER!**



Be alert for overhead electrical wires. Failure to stay clear of electrical wires will result in electrocution. Electrocution can occur without direct contact with overhead electrical wires.

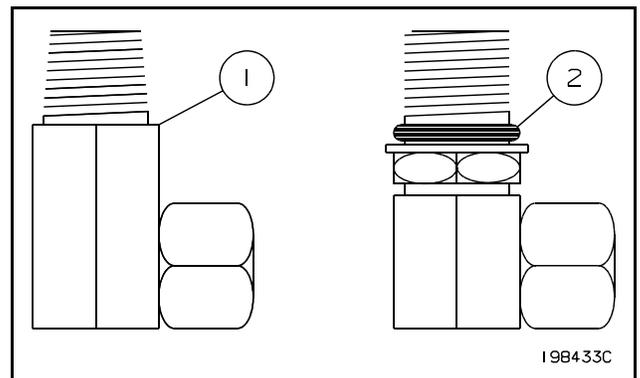
**CAUTION!**



To prevent personal injury when assembling the implement, always block up the raised section. Be sure the section is stable before assembly and never rely on a jack or hydraulic device to support the raised implement.

Always make sure that pressure is relieved from hydraulic circuits before servicing or disconnecting from the tractor. Failure to do so may result in hydraulic fluid being injected into the skin, that may result in gangrene.

1. Be sure to read and follow all instructions to ensure proper assembly and operation of the implement.
2. Assembly requires the use of a forklift or another suitable lifting device.
3. Implement must be assembled on a flat surface.
4. Left and Right are determined from the rear of the implement facing the direction of forward travel.
5. Use a suitable sealant on hydraulic connections. Be careful not to allow sealant to enter the hydraulic system.
6. Apply a thread sealant to all female to male pipe thread connections.
7. Do not allow tape to enter the hydraulic system.
8. Do not use a thread sealant on ORB or swivel fitting connections.



Hydraulic Fitting Identification

**NOTE:** Pipe thread (1) fittings and o-ring boss fittings (2) are the two types of hydraulic fittings used.

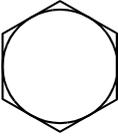
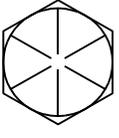
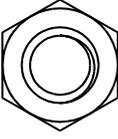
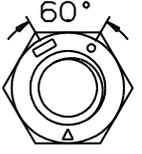
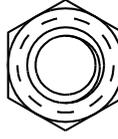
## **SECTION 2 - ADJUSTMENTS**

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9. There are several locations on the implement where a Teflon/fiberglass bushing is used to pivot on a chrome plated pin. Damage to the bushings or the pin surface will result in reduced bushing life. To prevent bushing damage, ensure proper alignment.
10. There are several locations on the implement where Garmax bushings are used. Make sure these bushings remain free of grease and dirt during service.
11. Assembly instructions will refer to pins with a certain required length. For example, NW-470 "PIN, 1.250 X 5.25 FL CRM" means a chromed pin, 1 1/4" in diameter, and 5 1/4" full length. Be sure to use proper pin length in areas designated.
12. Notice the way pins, bolts and hardware are assembled.
13. Do not torque some bolts as they contain moving parts. Snug up these bolts making sure that the locknuts engage threads. Do not over tighten.
14. The depth cylinder ports must face up. Ports on wing lift cylinders mounted on the center section to face forward.
15. After basic frame assembly use the hydraulics to position the frame at the correct height to ensure easier trip assembly. If the center and wing frames are 737 mm - 787 mm (29" - 31") high, 350 or 550 pound release trip assemblies can rest against the ground and frame during assembly allowing the V-bolts to be installed. Lower the implement to the lowest possible position if assembling 650 pound release trips. The shanks for the 650 pound release trips are assembled after trips are securely bolted to frame.

**SECTION 2 - ADJUSTMENTS**

**BOLT TORQUE INFORMATION**

	GRADE						
	1 OR 2	5	5.1	5.2	8	8.2	L9 (ALLOY)
<b>SAE MARKINGS FOR BOLTS AND CAP SCREWS</b>							
	2	5			8		L9 (ALLOY)
<b>SAE MARKINGS FOR HEX NUTS</b>							

Bolt and Nut Grade Information

1. Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.
2. Make sure the fasteners threads are clean and that thread engagement is started. This will prevent them from failing when being tightened.
3. Tighten plastic insert or crimped steel-type lock nuts to approximately 50% of the dry torque, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.
4. The L9 (Alloy) fasteners torque values are for a bolt, nut and two washers.

**NOTE:** When using L9 (Alloy) fasteners, do not use the values in given for tapped holes.

SIZE	GRADE 2*				GRADE 5, 5.1, OR 5.2				GRADE 8 OR 8.2				L9 (ALLOY)			
	Dry **		Lubricated**		Dry **		Lubricated**		Dry **		Lubricated**		Head		Nut	
	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft
1/4 UNF	7.5	5.5	5.7	4.2	10.8	8	8.5	6.3	16.3	12	12.2	9	13.6	10	14.9	11
1/4 UNC	8.5	6.3	6.4	4.7	13.6	10	9.8	7.2	19	14	13.6	10	16.3	12	17.6	13
5/16 UNF	15	11	11	8	23	17	18	13	33	24	24	18	26	19	28	21
5/16 UNC	16	12	12	9	26	19	19	14	37	27	27	20	27	20	31	23
3/8 UNF	27	20	20	15	41	30	31	23	61	45	47	35	41	30	45	33
3/8 UNC	31	23	23	17	47	35	34	25	68	50	47	35	47	35	52	38
7/16 UNF	43	32	33	24	68	50	47	35	95	70	68	50	75	55	81	60
7/16 UNC	49	36	37	27	75	55	54	40	108	80	81	60	81	60	88	65
1/2 UNF	68	50	47	35	102	75	75	55	149	110	108	80	115	85	129	95
1/2 UNC	75	55	54	40	115	85	88	65	163	120	122	90	129	95	142	105
9/16 UNF	95	70	75	55	149	110	108	80	203	150	149	110	163	120	190	140
9/16 UNC	108	80	81	60	163	120	122	90	231	170	176	130	183	135	203	150
5/8 UNF	136	100	102	75	203	150	149	110	285	210	217	160	231	170	251	185
5/8 UNC	149	110	115	85	231	170	176	130	325	240	244	180	258	190	278	205
3/4 UNF	237	175	176	130	353	260	271	200	515	380	380	280	359	265	393	290
3/4 UNC	271	200	190	140	407	300	298	220	570	420	420	310	447	330	481	355
7/8 UNF	231	170	170	125	583	430	434	320	814	600	610	450	644	475	685	505
7/8 UNC	244	180	190	140	637	470	475	350	909	670	678	500	705	520	793	585
1 UNF	339	250	258	190	868	640	651	480	1234	910	922	680	746	550	1051	775
1 UNC	380	280	285	210	976	720	732	540	1383	1020	1031	760	949	700	1220	900
1-1/8 UNF	475	350	366	270	1071	790	800	590	1749	1290	1315	970	1390	1025	1559	1150
1-1/8 UNC	542	400	407	300	1207	890	909	670	1953	1440	1464	1080	1559	1150	1797	1325
1-1/4 UNF	678	500	515	380	1519	1120	1139	840	2468	1820	1844	1360	1898	1400	2170	1600
1-1/4 UNC	746	550	570	420	1681	1240	1261	930	2726	2010	2048	1510	2170	1600	2373	1750
1-1/2 UNF	1180	870	881	650	2644	1950	1980	1460	4285	3160	3214	2370	3932	2900	4407	3250
1-1/2 UNC	1329	980	990	730	2983	2200	2224	1640	4827	3560	3621	2670	4475	3300	4949	3650

**Bolt Torque Information**

**DO NOT** use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

\*\* "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

\* Grade 2 applies for hex caps (not hex bolts) up to 6" (152 mm) long. Grade 1 applies for hex cap screws over 6" (152 mm) long, and for all other types of bolts and screws of any length.

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