300A AUGER PLATFORM

Cutterbar—Twin Knife:	
Guards	Double hardened forged steel
	Regular and Non-clog
Hold-Downs	Through hardened
	Individually adjustable
Hold-Down Clips	Through hardened
	Close to knife tip
Guard Angle	6˚ to 12˚
Knives (Chrome)	Bolt-on overserrated, standard
Center Overlap	Double section overlap
Speed	1875 Strokes per minute
Knife Drive	Enclosed, running in oil
Cutting Height	—2 in. to 19 in. (—51 to 483 mm)
Operating Speed	Up to 9 mph (14.5 km/h)
Cross Shaft Speed	1176 rpm
Reel:	
Reel Bats	Four bat, standard
	Five and six, optional
Diameter	42 in. (1067 mm)
Protection	Slip clutch
Speed; variable	45 to 78 rpm
Tooth bars	Four bar, standard
	Five and six, optional
Weight:	
12-Foot (3658 mm)	2872 lbs (1292 kg)
14-Foot (4267 mm)	3097 lbs (1374 kg)
16-Foot (4877 mm)	3322 lbs (1495 kg)
Width of Cut:	
12-Foot (3658 mm)	12 ft 3 in. (3734 mm)
14-Foot (4267 mm)	14 ft 3 in. (4343 mm)
16-Foot (4877 mm)	16 ft 3 in. (4953 mm)
Auger:	
Diameter	22 in. (610 mm)
Speed	200 to 227 rpm
	173 to 200 rpm, optional
Protection	Slip clutch
Gauge Shoes	Adjustable without tools

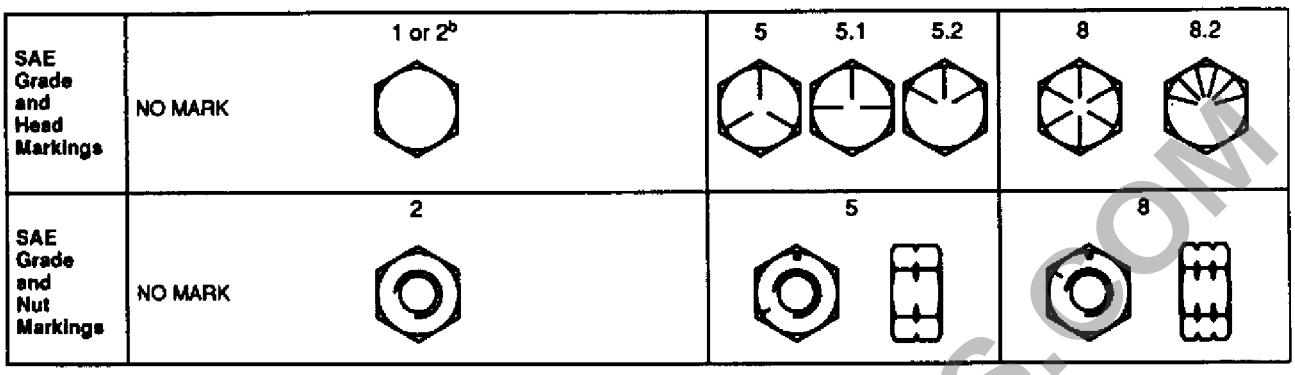
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UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES



TS1162 -19-04MAR91

Size	Grade 1				Grade 2[b]				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]	
	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft
1/4	3.7	2.8	4.7	3.5	6	4.5	7.5	5.5	9.5	7	12	9	13.5	10	17	12.5
5/16	7.7	5.5	10	7	12	9	15	11	20	15	25	18	28	21	35	26
3/8	14	10	17	13	22	16	27	20	35	26	44	33	50	36	63	46
7/16	22	16	28	20	35	26	44	32	55	41	70	52	80	58	100	75
1/2	33	25	42	31	53	39	67	50	85	63	110	80	120	90	150	115
9/16	48	36	60	45	75	56	95	70	125	90	155	115	175	130	225	160
5/8	67	50	85	62	105	78	135	100	170	125	215	160	215	160	300	225
3/4	120	87	150	110	190	140	240	175	300	225	375	280	425	310	550	400
7/8	190	140	240	175	190	140	240	175	490	360	625	450	700	500	875	650
1	290	210	360	270	290	210	360	270	725	540	925	675	1050	750	1300	975
1-1/8	470	300	510	375	470	300	510	375	900	675	1150	850	1450	1075	1850	1350
1-1/4	570	425	725	530	570	425	725	530	1300	950	1650	1200	2050	1500	2600	1950
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2	1000	725	1250	925	990	725	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

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.

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.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

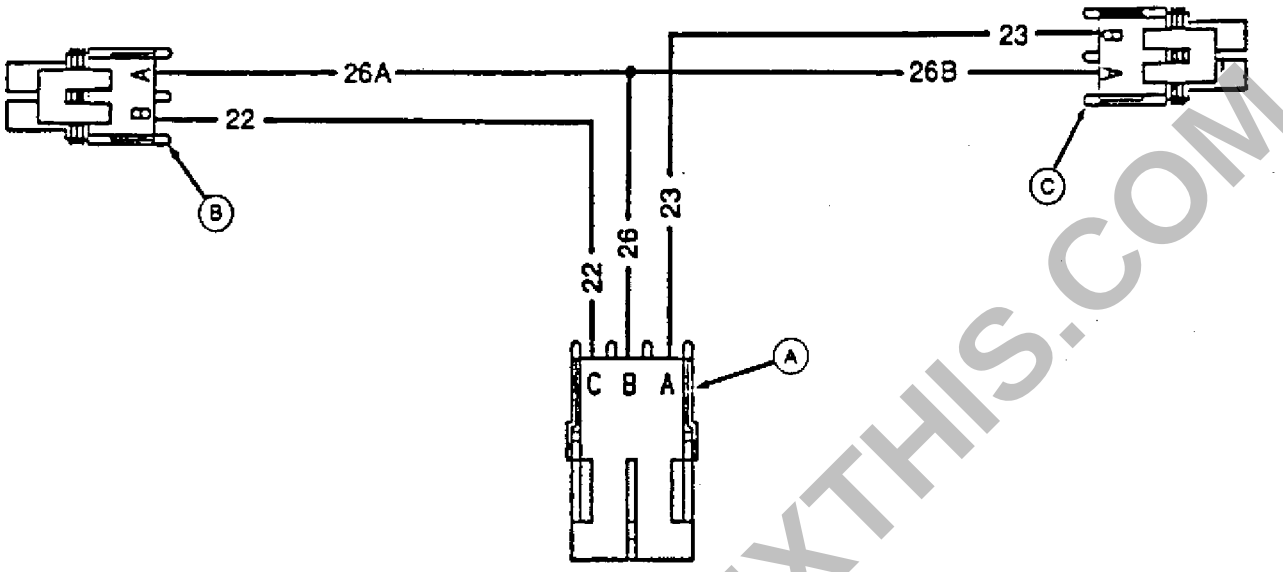
[a] "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

[b] Grade 2 applies for hex cap screws (not hex bolts) up to 152 mm (6-in.) long. Grade 1 applies for hex cap screws over 152 mm (6-in.) long, and for all other types of bolts and screws of any length.

DX,TORQ1 -19-15MAR91

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PLATFORM WIRING HARNESS



A—Windrower
B—Left Warning Light
C—Right Warning Light
22—Green (Left Light)
23—Yellow (Right Light)
26—White (Ground)
26A—White (Ground)
26B—White (Ground)

The platform harness is connected to the windrower wiring harness.

The platform right and left lights respond to the right and left turn signal, and hazard warning light controls in the cab.

The platform harness connects to the windrower lead, from the lower right corner of the cab.

The system is simple in design and should not represent any difficulties in diagnosing a system malfunction.

EX,1526,6005,A -19-16APR92

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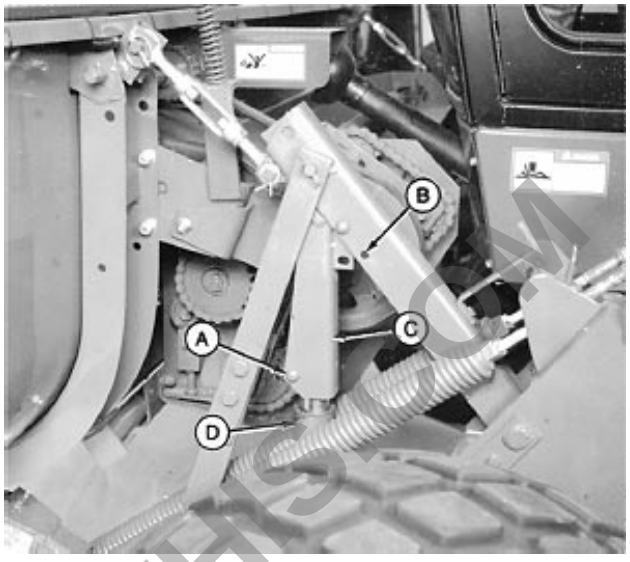
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ENGAGE CYLINDER LOCKOUT

NOTE: 3430 Windrower shown. Procedure is the same for the 3830 Windrower.

1. Raise platform to highest position.
2. Remove spring clip and pin (A) from hole (B).
3. Lower brace (C) into position.
4. Install pin (A) in brace (C) as shown.
5. Repeat steps 2 - 4 on opposite side of windrower.
6. Lower platform, allowing brace (C) to rest on cylinder body (D).

A—Pin
B—Hole
C—Brace
D—Cylinder Body



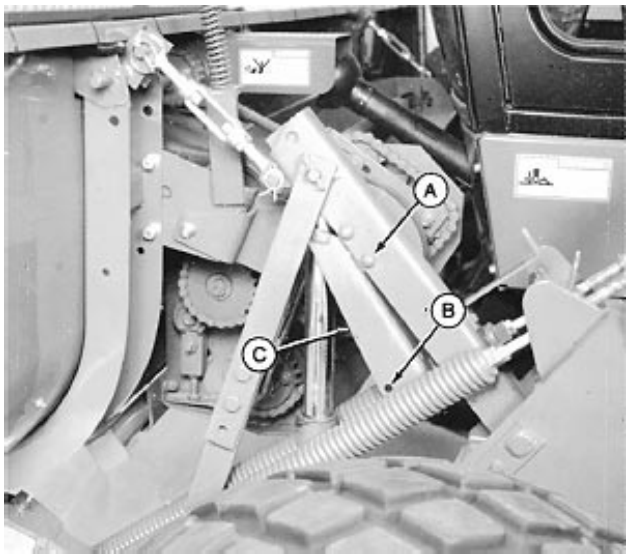
E36502 -UN-19DEC91

EX,1526,1025,A -19-16APR92

DISENGAGE CYLINDER LOCKOUT

NOTE: 3430 Windrower shown. Procedure is the same for the 3830 Windrower.

1. Raise platform.
2. Remove spring clip and pin (A) from hole (B).
3. Raise brace (C) into position.
4. Install pin (A) and spring clip as shown.



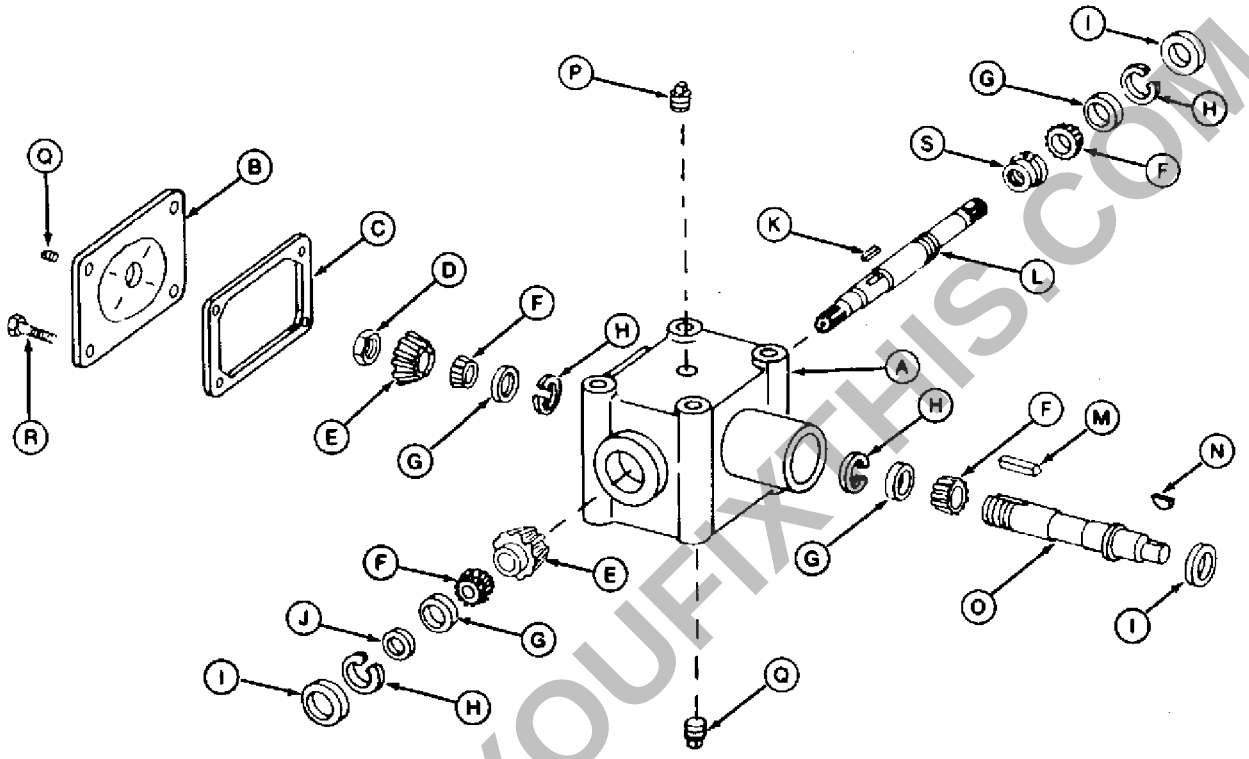
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ASSEMBLE GEAR CASE



A—Gear Case	F—Bearing Cone	K—Shaft Key	P—Breather
B—Cover	G—Bearing Cup	L—Output Shaft	Q—Plug
C—Gasket	H—Snap Ring	M—Shaft Key	R—Cap Screw
D—Stake Nut	I—Seal	N—Shaft Key	S—Stake Nut
E—Bevel Gear	J—0.13 mm (0.005 in.) Shim	O—Input Shaft	

Exploded View of Gear Case

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CROP LOSS AT CUTTERBAR

Symptom	Problem	Solution
Leaf loss or crop damage	Reel speed not coordinated with ground speed.	Change reel drive to coordinate reel speed with ground speed so reel will move material smoothly and evenly.

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WINDROW PROBLEMS

Symptom	Problem	Solution
Poorly formed windrows	Reel too high.	Lower reel until it barely clears the cutterbar and deck.
	Reel cam set for early release in light crop.	Rotate cam for late release.
	Ground speed too slow.	Increase ground speed.
	Incorrect forming deflector position.	Adjust forming deflector.
	Worn cutterbar components.	Replace knives or guards.

EX,1526,3010,B -19-16APR92

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RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



T81389 -UN-07DEC88

DX,ALERT -19-04JUN90

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



TS187 -19-30SEP88

DX,SIGNAL -19-09JAN92

HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



TS227 -UN-23AUG88

DX,FLAME -19-04JUN90

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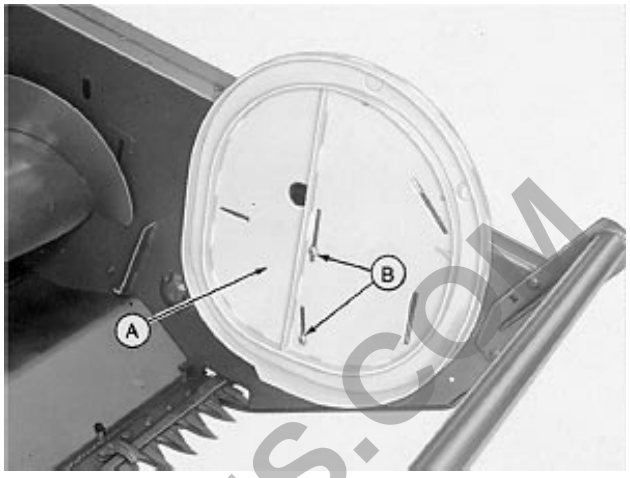
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INDX

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INSTALL REEL

1. Install reel cam (A), using two round head bolts and nuts (B).



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2. Install reel and engage cam followers (A) into cam in the “following” position.



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