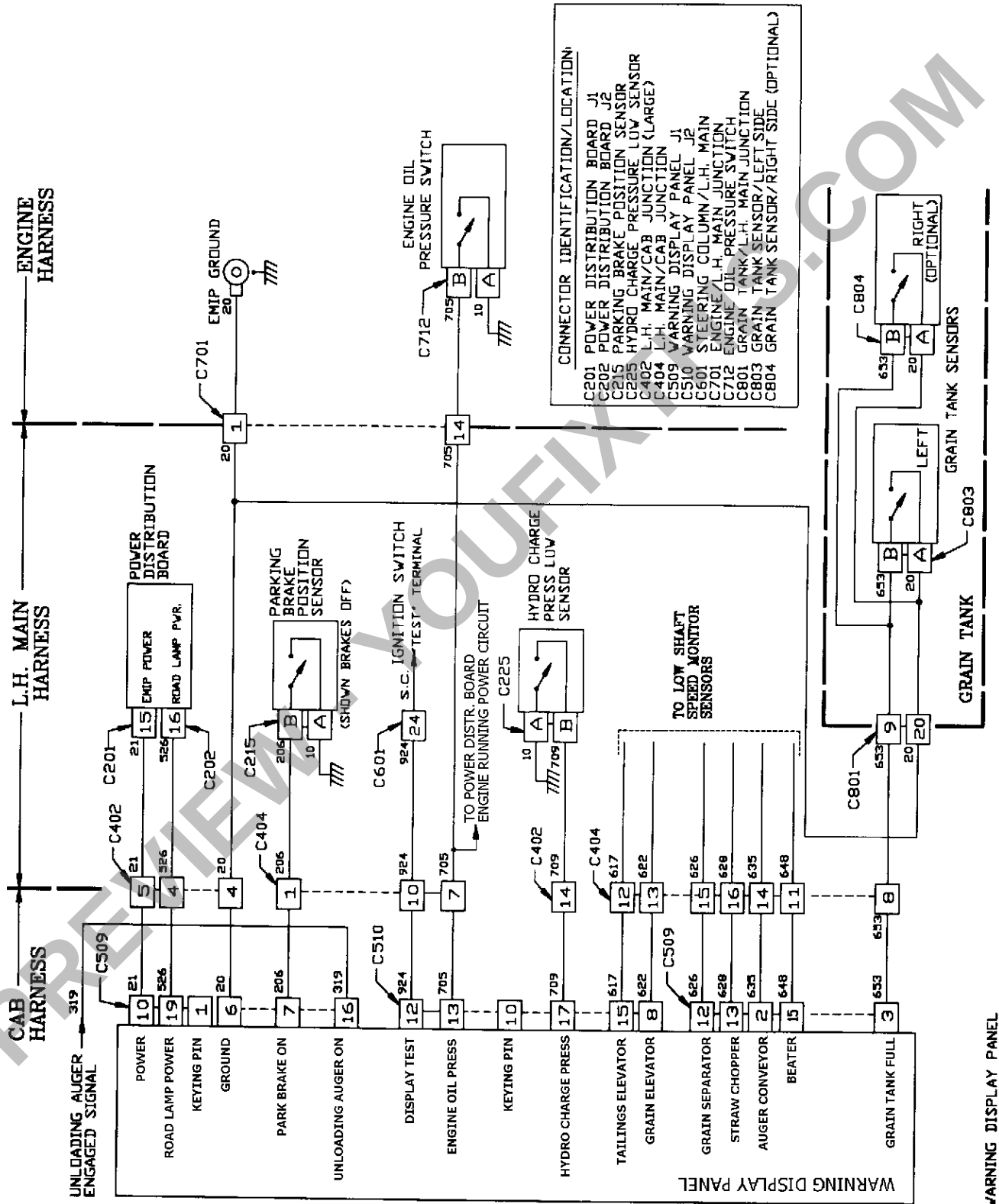


DIAGRAMS



H50637

WARNING DISPLAY PANEL

H50637 -19-11NOV97

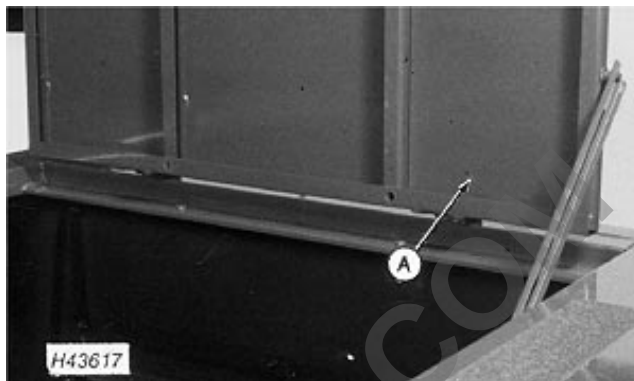
HX,240,SD35 -19-28OCT97-1/5

MOVE TINE SEPARATOR MODULE TO THE SERVICE POSITION



CAUTION: Engine must be off and key removed.

1. Remove two cap screws and open access door (A).



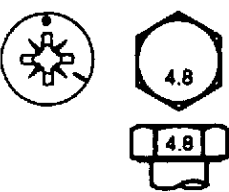
HX,120,SD16 -19-24OCT97-1/17

2. Remove two cap screws (A) and open rear hood.



HX,120,SD16 -19-24OCT97-2/17

METRIC BOLT AND CAP SCREW TORQUE VALUES

Property Class and Head Markings	4.8	8.8	9.8	10.9	12.9
					
Property Class and Nut Markings	5	10	10	10	12
					

Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b	
	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
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

^a"Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.

^b"Dry" means plain or zinc plated without any lubrication.

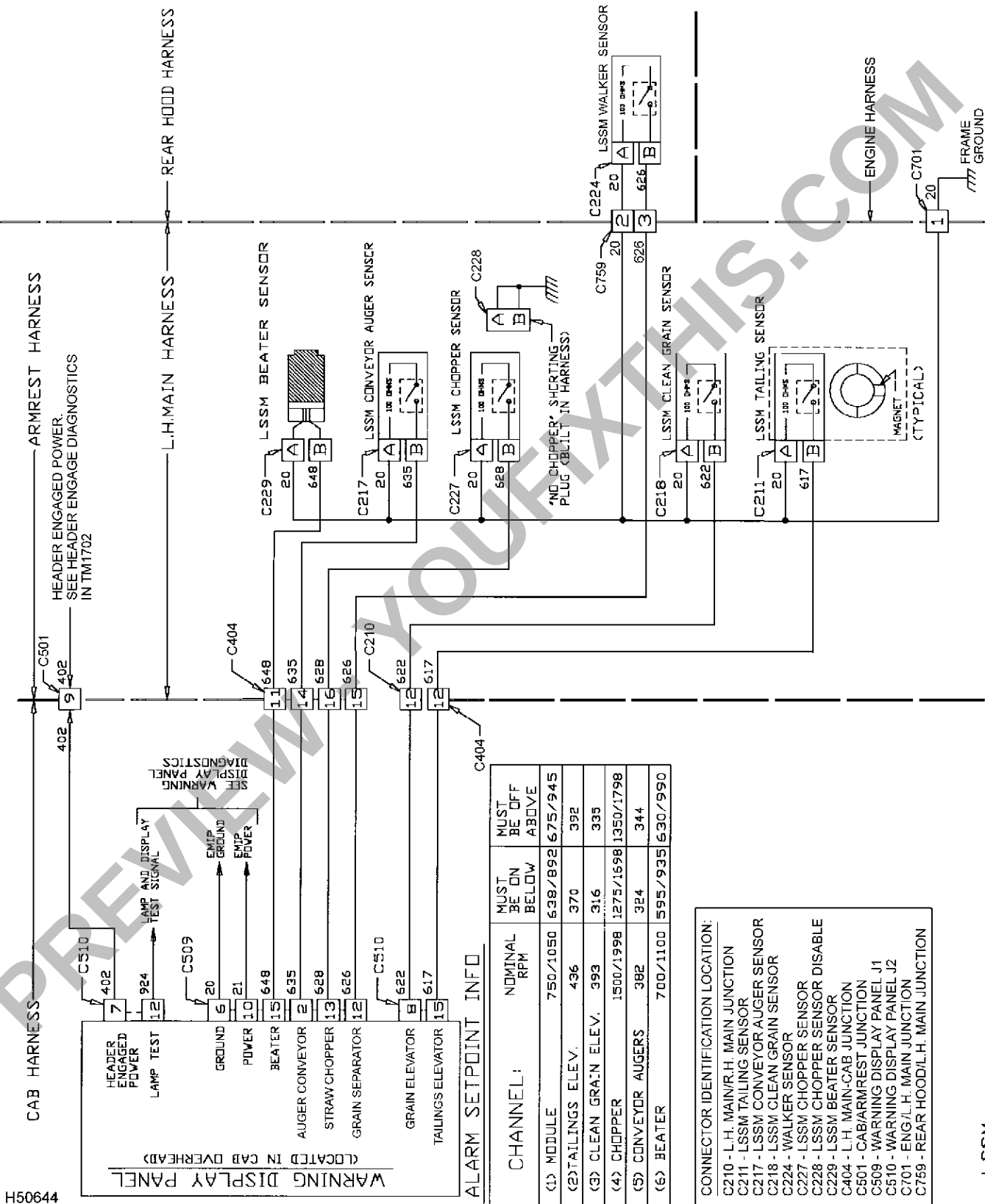
DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

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

Fasteners should be replaced with the same or higher property class. If higher property class 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.

DIAGRAMS



H50644

LSSM

H50644 -19-07NOV97

HX,240,SD39 -19-28OCT97-1/6

1—Idler
2—Spring
3—Washer
4—Nut, M12
5—Gauge
6—Hose

7—Guide
8—Rod
9—Pin
10—Washer
11—Strap
12—Spacer

13—Outer Plate
14—Spacer
15—Inner Plate
16—Screw, M10 x 80
17—Bushings
18—Arm

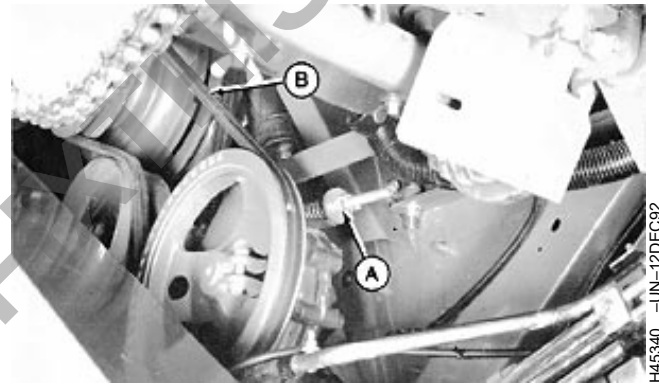
19—Screw, M12 x 80
20—Screw, M12 x 70
21—Plate
22—Screw, M10 x 40
23—Screw, M10 x 30
24—J-Clamp

HX,1543,12005,G -19-24OCT97-2/2

120
05
19

REMOVE SERATED BEATER DRIVE GEARBOX

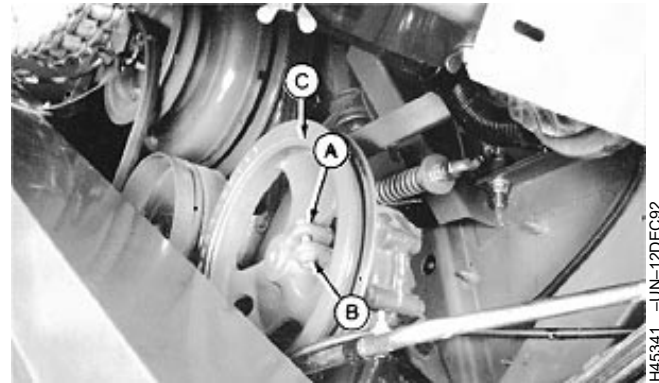
1. Loosen nut and jam nut (A) to relieve belt tension.
2. Remove belt (B).



H45340 -UN-12DEC92

HX,120,SD59 -19-04NOV97-1/4

3. Remove nut (A) and cap screw (B).
4. Remove key from keyway.
5. Remove sheave (C).



H45341 -UN-12DEC92

HX,120,SD59 -19-04NOV97-2/4

UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES

SAE Grade and Head Markings	1 or 2 ^b		5 5.1 5.2			8 8.2	
	NO MARK						
SAE Grade and Nut Markings	2		5		8		
	NO MARK						

	Grade 1 ^a				Grade 2 ^b				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated ^c		Dry ^d		Lubricated ^c		Dry ^d		Lubricated ^c		Dry ^d		Lubricated ^c		Dry ^d	
Size	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	240	175	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	400	300	510	375	400	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

^aGrade 1 applies for hex cap screws over 152 mm (6-in.) long, and for all other types of bolts and screws of any length.

^bGrade 2 applies for hex cap screws (not hex bolts) up to 152 mm (6 in.) long.

^c"Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.

^d"Dry" means plain or zinc plated without any lubrication.

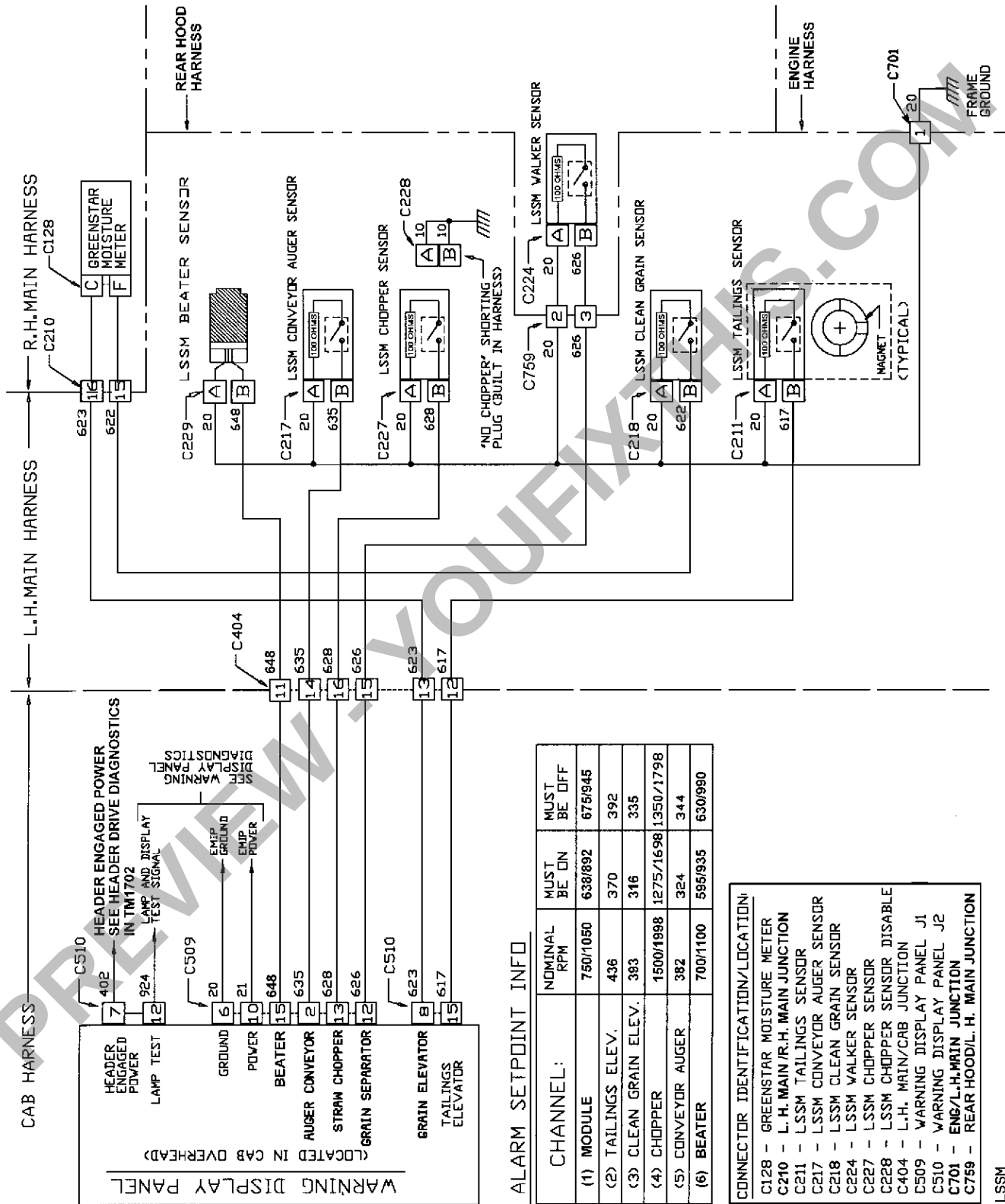
DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

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.

DIAGRAMS



LSSM

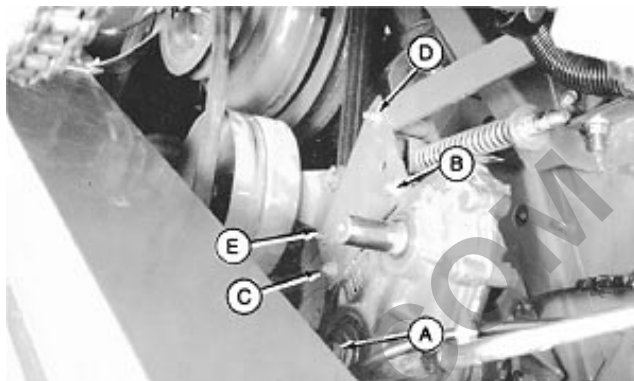
H50620

H50620 -19-19NOV97

HX,240,DV8008 -19-07NOV97-1/7

INSTALL SERATED BEATER DRIVE GEARBOX

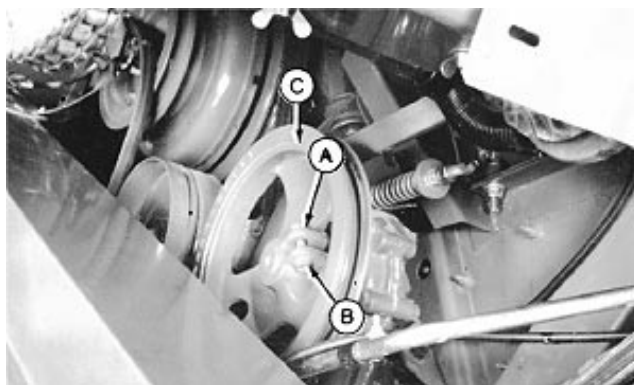
1. Install key on beater shaft.
2. Install gearbox on beater shaft.
3. Install cap screws and nuts (B, C and E) through idler bracket to gearbox.
4. Install cap screw, nut and spacer (D).
5. Install M12 x 30 bolt and washer (A) in end of shaft. Torque to 100 N•m (74 lb-ft).
6. Install key in keyway of gearbox input shaft.



A—Bolt and Washer
B—Cap Screw with Nut
C—Cap Screw with Nut
D—Cap Screw, Spacer and Nut
E—Nut

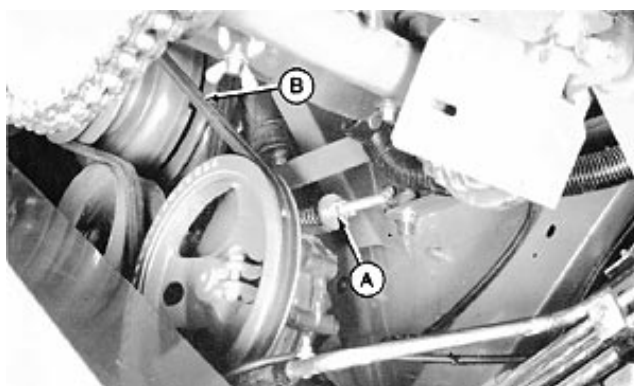
HX,120,SD17 -19-24OCT97-1/3

7. Install sheave (C), cap screw (B) and nut (A).



HX,120,SD17 -19-24OCT97-2/3

8. Install belt (B).
9. Tighten belt by tightening nuts (A) until washer is even with spring gauge.



HX,120,SD17 -19-24OCT97-3/3

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- Group 15—Specifications

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- Group 15—Tine Separator Module
- Group 20—Tine Separators
- Group 25—Engine Gearcase to Module Drives
- Group 30—Tine Separator Gearboxes
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- Group 5J—HarvesTrak™ Diagnostics
- Group 5K—Lighting System Diagnostics

All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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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.



DX,ALERT -19-03MAR93-1/1

T81389 -UN-07DEC88

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.

▲ DANGER

▲ WARNING

▲ CAUTION

DX,SIGNAL -19-03MAR93-1/1

TS187 -19-30SEP88

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.



DX,FLAME -19-04JUN90-1/1

TS227 -UN-23AUG88

10

120

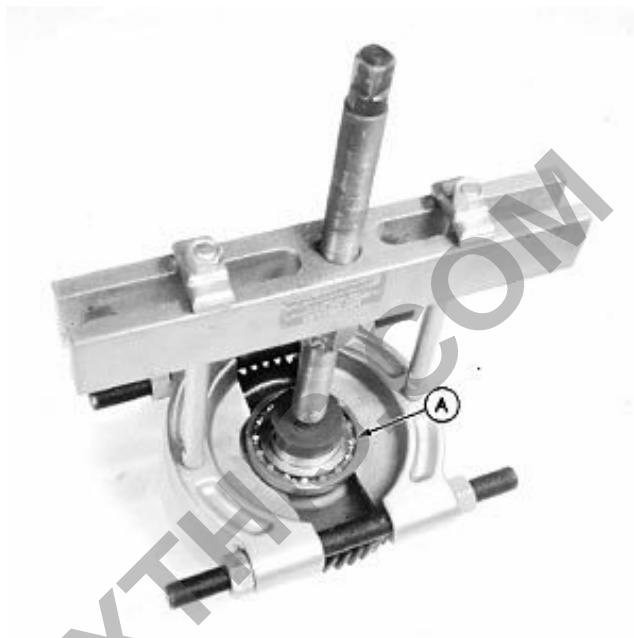
130

240

INDX

PREVIEW - YOUFIXTHIS.COM

6. Remove bearings from input and output gearshafts (A) if necessary to replace.

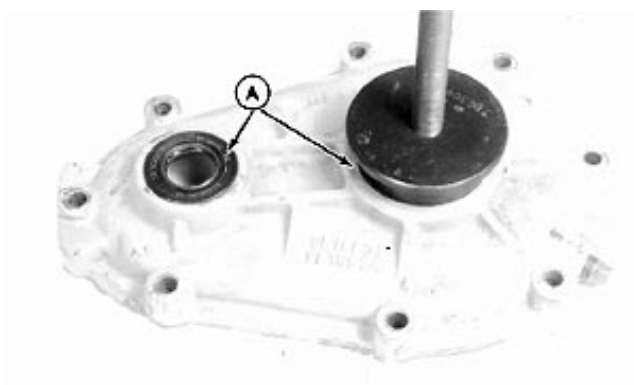


H45587 -UN-07JAN93

HX,1543,12005,I -19-02MAR93-3/4

7. Remove seals (A) from input and output ends of gearcase.

8. Clean all parts.

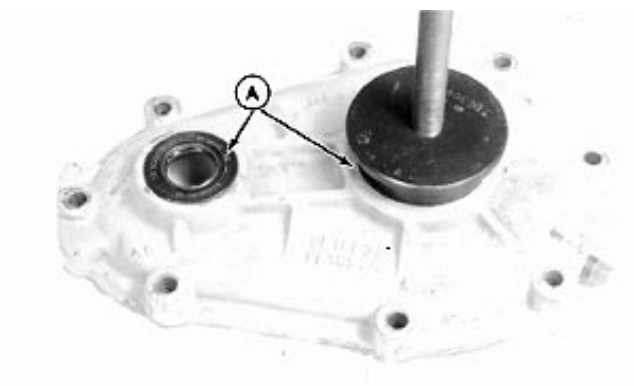


H45588 -UN-07JAN93

HX,1543,12005,I -19-02MAR93-4/4

ASSEMBLE SERATED BEATER DRIVE GEARBOX

1. Install NEW seals (A) in gearcase housing, with lip facing in and flush with housing. Apply TY6341 multi-purpose grease to seal lips before shaft installation.



H45588 -UN-07JAN93

HX,1543,12005,M -19-24OCT97-1/4

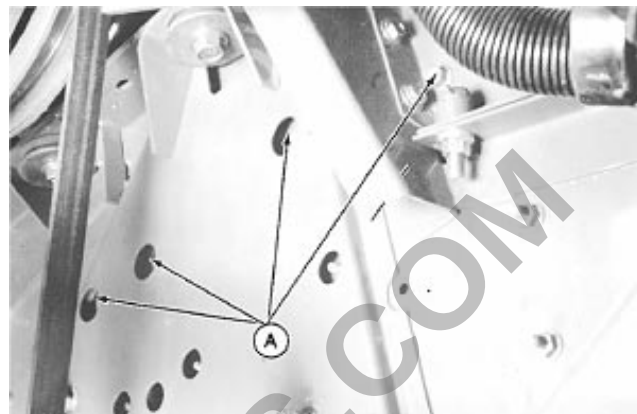
INSTALL SERATED BEATER COVER

CAUTION: The approximate weight of rear cover is approximately 29.6 kg (65 lb). Two people will be required to install cover.

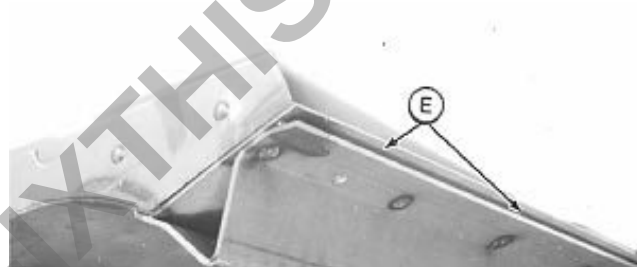
1. Install serated beater cover and attach with cap screws (A) through the left-hand side sheet.

NOTE: Front edge of stripper cover **MUST** engage slot (E) of serated beater cover.

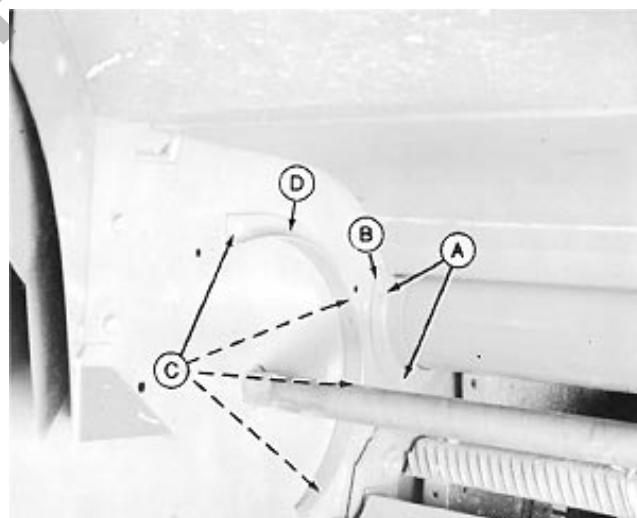
2. Install five cap screws through right-hand side sheet.
3. Install front beater seal (D) with round head bolts (C).



H45628 -UN-07JAN93



H45648 -UN-07JAN93

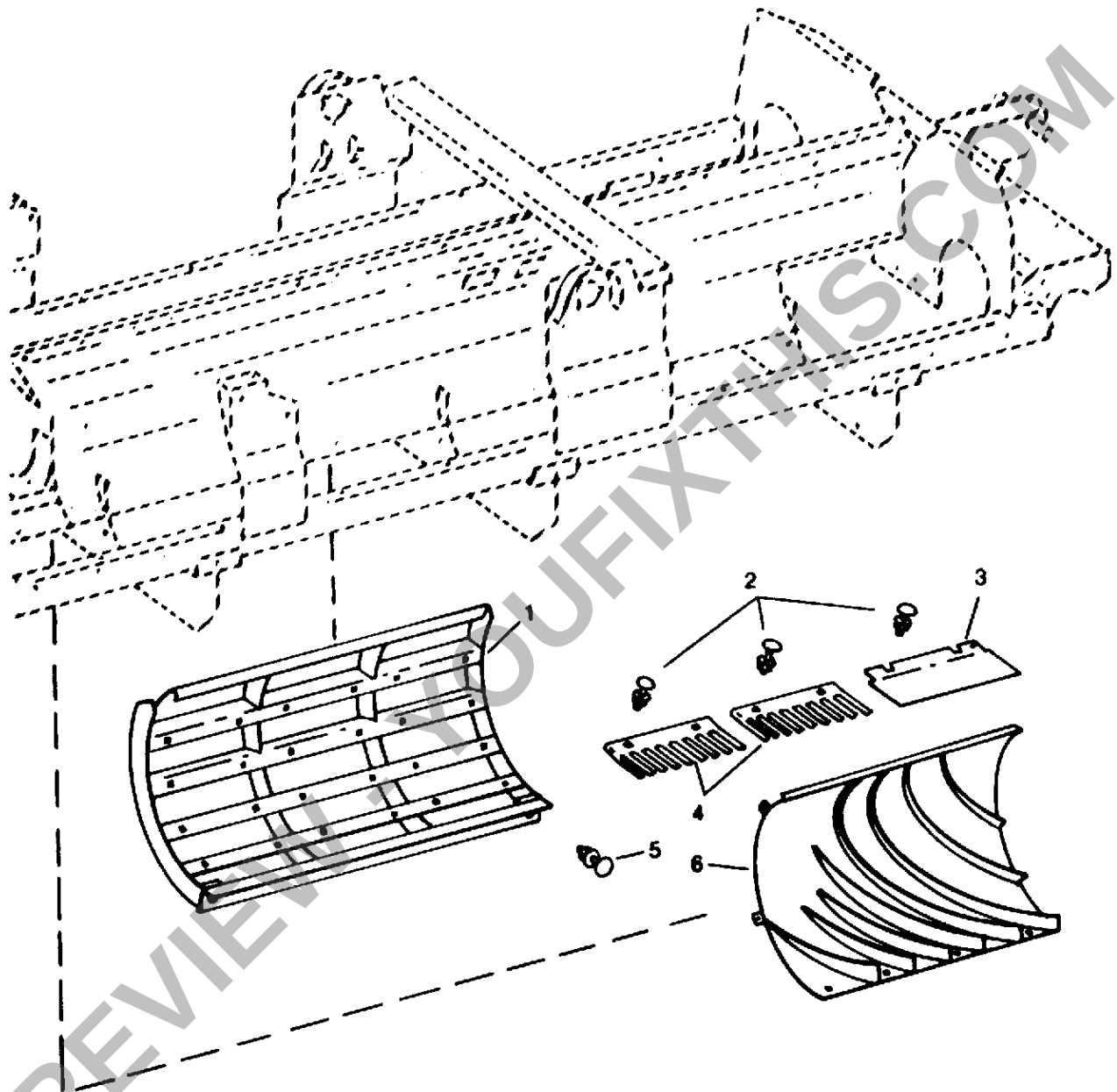


H45353 -UN-12DEC92

- A—Cap Screw (4 used)
- B—Stripper Beater Seal
- C—Round Head Bolt (4 used)
- D—Beater Seal
- E—Slot

HX,120,SD70 -19-24NOV97-1/5

MODULE GRATE ASSEMBLY



1—Finger Grate (4 used)
2—Bolt, M10 x 50 (As
Required)
3—Filler Plate (18 used,
Rice; 12 used, Grain)

4—Finger (36 used, Rice;
72 used, Grain)
5—Screw, M12 x 35, Rice;
Bolt, M10 x 35 (36 used,
Grain) w/washer

6—Housing

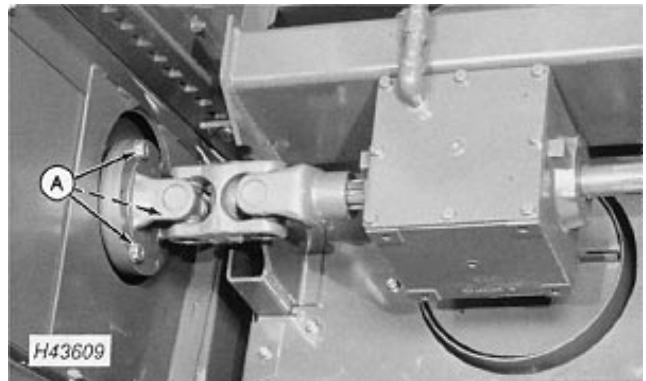
15. Install three 5/16 x 3 in. full thread bolts (A) in hub (B) threaded holes.
16. Tighten bolts (A) until sheave (C) comes off hub (B).
17. Remove hub and sheave from shaft.
18. Remove inner lock collar from shaft.



H45658 -UN-11JAN93

HX,120,SD87 -19-25NOV97-11/14

19. Remove U-joint drive assembly from module at cap screws (A).



H43609 -UN-13JUN91

HX,120,SD87 -19-25NOV97-12/14

Section 130 Grain Tank and Unloading System Repair

Contents

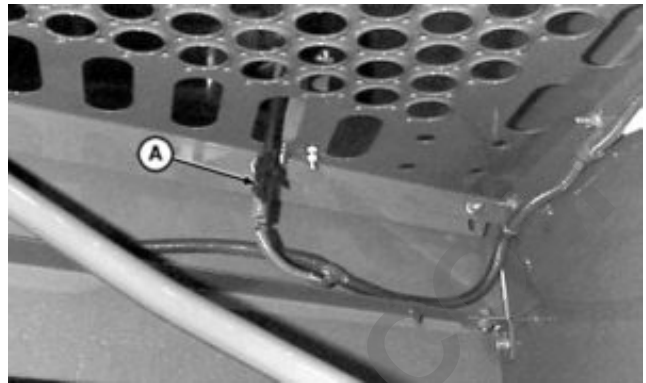
Page

Group 05—Grain Tank Extensions

Raise and Lower Grain Tank Extensions. . . . 130-05-2

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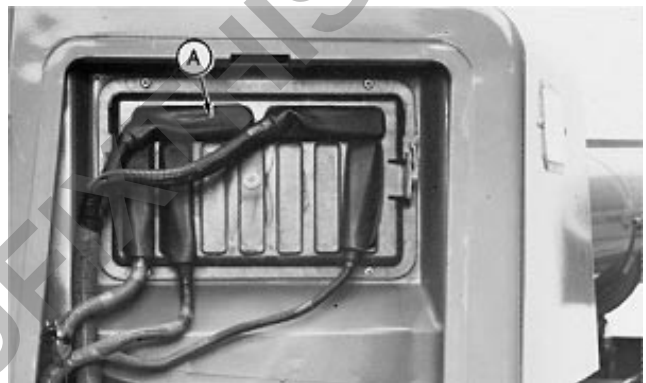
C124—RIGHT REAR DISCHARGE LIGHT CONNECTOR



H50062 -UN-21AUG97

1702,DVC124 -19-20AUG97-1/1

C201—POWER DISTRIBUTION BOARD CONNECTOR J1



H39960 -UN-10OCT88

9000,240,C201 -19-16FEB97-1/1

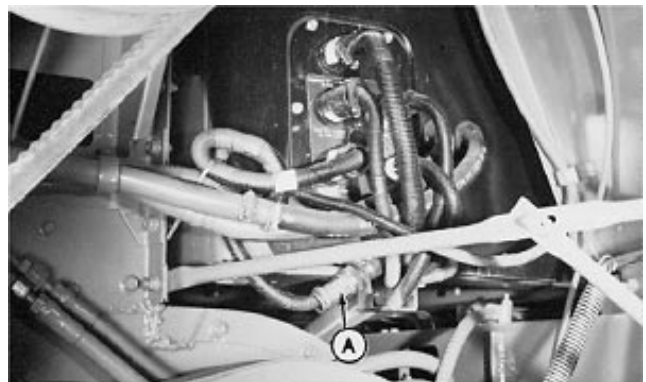
C202—POWER DISTRIBUTION BOARD CONNECTOR J2



H39961 -UN-10OCT88

9000,240,C202 -19-16FEB97-1/1

C210—L.H. MAIN/R.H. MAIN JUNCTION CONNECTOR



H39965 -UN-10OCT88

9000,240,C210 -19-18FEB97-1/1

240
5K
6

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