200 and 900 Series Cutting Platforms 40 and 90 Series Corn Heads 50 and 50A Series Row Crop Heads

FOREWORD

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.



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

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly. Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Technical Manuals are concise guides for specific machines. They are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

DX.TMIFC -19-22MAY92

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.



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DX,FLAME

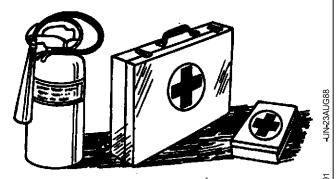
-19-04JUN90

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



TS25

DX,FIRE2

-19-03MAR93

AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

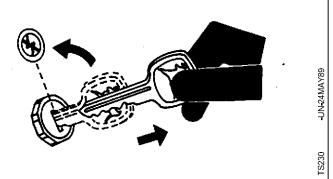


DX,FLUID -19-03MAR93

PARK MACHINE SAFELY

Before working on the machine:

- · Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



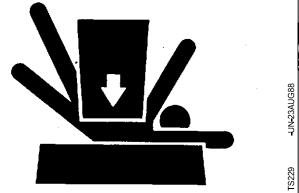
DX,PARK

-19-04JUN90

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



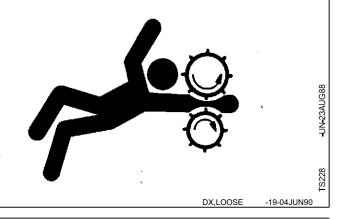
DX,LOWER

-19-04JUN90

SERVICE MACHINES SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

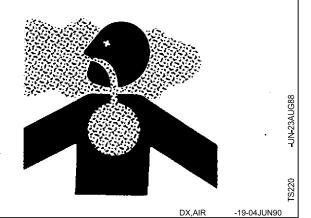
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



10-05-3

ILLUMINATE WORK AREA SAFELY

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



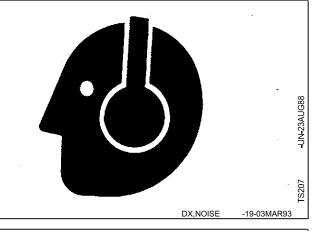
DX,LIGHT

-19-04JUN90

PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

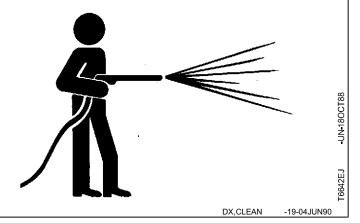
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



WORK IN CLEAN AREA

Before starting a job:

- · Clean work area and machine.
- · Make sure you have all necessary tools to do your job.
- · Have the right parts on hand.
- · Read all instructions thoroughly; do not attempt shortcuts.



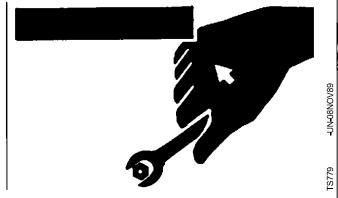
USE PROPER TOOLS

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting John Deere specifications.



DX,REPAIR -19-04JUN90

DISPOSE OF WASTE PROPERLY

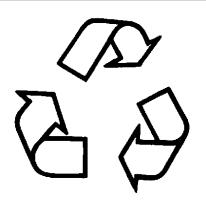
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



DY DRAIN _10_03MARG

LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



DX,LIVE

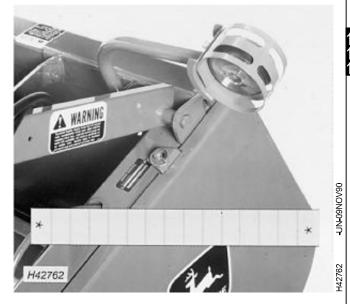
-19-25SEP92

10-05-6

SERIAL NUMBER

The serial number is on a plate located on the top left-hand end of the cutting platform.

When ordering parts, always bring the serial number from the serial number plate. This will help your John Deere dealer in giving you fast service.



TM1581,10A -19-03OCT94

The serial number is on a plate located on the right-hand end of the row-crop head.

Record your row-crop head serial number in the space provided on the illustration. Provide this serial number to your dealer when ordering parts.



TM1581,10B -19-03OCT94

The serial number is on a plate located on the right-hand end of the corn head.

Record your corn head serial number in the space above. Give this serial number to your dealer when ordering parts.



M1581,10C -19-03OCT94

TM1581 (03OCT94) 10-10-1

200 SERIES PLATFORMS

Specifications given in this manual are intended for service ONLY and do not include normal factory manufacturing tolerances.

(Specifications and design subject to change without notice)

Rigid Cutterbar Platform Model	Cutting Width	Combine Model
213	3 812 mm (12 ft. 6 in.)	4420, 4425, 6600, 6620, 7700, 7720
215	4 422 mm (14 ft. 6 in.)	4420, 4425, 6600, 6620, 7700, 7720, 8820
216	4 727 mm (15 ft. 6 in.)	4420, 4425, 6600, 6620, SideHill, 6620, 7700, 7720, 8820
218	5 336 mm (17 ft. 6 in.)	4420, 4425, 6600, 6620, 7700, 7720, 8820
220	5 846 mm (19 ft. 6 in.)	4420, 6600, 6620, 7700, 7720, 8820
222	6 556 mm (21 ft. 6 in.)	6600, 6620, 7700, 7720, 8820
224	7 165 mm (23 ft. 6 in.)	6600, 6620, 7700, 7720, 8820
230	8 994 mm (29 ft. 6 in.)	7700, 7720, 8820
Flex Cutterbar Platform Model		
213	3 812 mm (12 ft. 6 in.)	4420, 4425, 6600, 6620, 7700, 7720
215	4 422 mm (14 ft. 6 in.)	4420, 4425, 6620, SideHill, 6620, 7720, 8820
216	4 727 mm (15 ft. 6 in.)	4420, 4425, 6620, SideHill, 6620, 7720, 8820
218	5 336 mm (17 ft. 6 in.)	4420, 4425, 6620, 7720, 8820
220	5 846 mm (19 ft. 6 in.)	4420, 6620, 7720, 8820
222	6 556 mm (21 ft. 6 in.)	6620, 7720, 8820
224	7 165 mm (23 ft. 6 in.)	6620, 7720, 8820

NOTE: Conversion parts are available to convert 213, 215, 216, 220 and 222 Model platforms for use with the SideHill 6600 and 6620 Combines. The 215 flex and 216 flex and rigid platforms are also available with factory installed parts as noted above.

HX1581,1015,AA -19-03OCT94

Cutterbar Type Enclosed wobble drive Tilt range 9 degrees Knife sections Heavy-duty, overserrated Guards Forged steel heat-treated Knife speeds: (measured at sheave rpm) 6620 (—610727), 7720 (—611386) 6620 (610728—), 7720 (611387—) Backshaft speeds 490 rpm 6620 (610728—) 7720 (—611386) Reel (Pickup) **Reel Controls** Platform Auger Operating speed: 6620 (—610727), 7720 (—611386) 8820 159 rpm std. 127 rpm opt. 6620 (610728—), 7720 (611387—) NOTE: A special 121 rpm for 4420, 6600, 6620, 7700, 7720 and 127 rpm for 8820 slow speed sprockets is available. Retractable auger fingers Platform Number of fingers Size

HX1581,1015,AB -19-03OCT94

900 SERIES PLATFORMS

Specifications given in this manual are intended for service only and do not include normal factory manufacturing tolerances.

Rigid Cutterbar Platform Model	Cutting Width	Gathering Width	Combine Model
918	5334 mm (17 ft. 6 in.)	5.5 m (18 ft.)	4435, 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS
920 and 920 Rice	5944 mm (19 ft. 6 in.)	6.1 m (20 ft.)	6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS
922 and 922 Rice	6556 mm (21 ft. 6 in.)	6.7 m (22 ft.)	6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS
925 and 925 Rice	7620 mm (25 ft.)	7.8 m (25 ft. 6 in.)	6620, 7720, 7722, 8820, 9400, 9500, 9600, SideHill 9500, CTS
930 and 930 Rice	8992 mm (29 ft. 6 in.)	9.1 m (30 ft.)	7720, 8820, 9500, 9600, SideHill 9500, CTS
Flex Cutterbar			
Platform Model	Cutting Width	Gathering Width	Combine Model
913	3810 mm (12 ft. 6 in.)	3.8 m (12 ft. 5 in.)	4435, 6620, 7720, 9400, 9500, 9600, SideHill 9500, CTS
915	4572 mm (15 ft.)	4.5 m (14 ft. 11 in.)	4435, 6620 SideHill, 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS
918	5334 mm (17 ft. 6 in.)	5.3 m (17 ft. 5 in.)	4435, 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS
920	5944 mm (19 ft. 6 in.)	5.9 m (19 ft. 5 in.)	6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS
922	6554 mm (21 ft. 6 in.)	6.6 m (21 ft. 5 in.)	6620, 7720, 8820, 9400, 9500, 9600 SideHill 9500, CTS
925	7620 mm (25 ft.)	7.6 m (24 ft. 11 in.)	6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS
930	8992 mm (29 ft. 6 in.)	9.0 m (29 ft. 5 in.)	7720, 8820, 9500, 9600 SideHill 9500, CTS

(Specifications and design subject to change without notice.)

HX1581,1015,AC -19-03OCT94

Cutterbar: Type Enclosed wobble drive Knife sections Heavy-duty, overserrated Guards Forged steel, heat-treated Knife Speed: (measured at sheave rpm) 539 cpm on Flexible Platforms 562 cpm on Rigid Platforms Reel: (pickup) Reel: (slat) **Reel Controls:** Operating speeds (Pickup 5—44 rpm) (Slat 8—66 rpm) Platform Auger: HX1581,1015,AD -19-03OCT94

TM1581 (03OCT94) 10-15-4

918 DRAPER PLATFORM

"Specifications given in this manual are intended for service only and do not include normal factory manufacturing tolerances."

Combine Models
Platform Drive Shaft
Cutter Bar
Type Enclosed wobble drive Cutterbar length 5.33 m (17.5 ft.) Knife sections Chrome plated, heavy-duty, overserrated Guards Forged steel heat-treated Knife Speed (measured with 521 rpm backshaft speed) 491 cpm
Pickup Reel Number of slats 6 (with spring steel fingers) Diameter 1320 mm (52 in.)
Reel Controls Height control
Auger Diameter 610 mm (24 in.) Operating speed 169 rpm Retractable auger fingers 12 Number of fingers 12 Diameter 16 mm (5/8 in.) With break-a-way notch 152 mm (6 in.) Reach 152 mm (6 in.) Torque required to seat 70 N⋅m (50 lb-ft) (maximum) Platform weight 1696 kg (3740 lb)

TM1581 (03OCT94) 10-15-5

TM1581,HX15,C -19-03OCT94

40 SERIES CORN HEAD

Specifications given in the manual are intended for service only and do not include normal factory manufacturing tolerances.

CORN HEAD MODEL	MACHINE MODEL	NUMBER OF ROWS	CORN HEAD MODEL	MACHINE MODEL	NUMBER OF ROWS
443	Forage Harvester 4420 Combine 4425 Combine 4435 Combine 6620 Combine	4	644	6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine 9600 Combine CTS Combine	6
444	Forage Harvester 4420 Combine 4425 Combine 6620 Combine SideHill 6620 Combine 7720 Combine 9400 Combine 9500 Combine	4	645	6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine 9600 Combine CTS Combine	6
546	SideHill 9500 Combine 6620 Combine SideHill 6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine SideHill 9500 Combine	5	843	7720 Combine 8820 Combine 9500 Combine 9600 Combine CTS Combine	8
	9600 Combine CTS Combine		844	8820 Combine 9600 Combine CTS Combine	8
643	6620 Combine SideHill 6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine SideHill 9500 Combine 9600 Combine CTS Combine	6	1243	8820 Combine 9600 Combine	12

TM1581,HX15,D -19-03OCT94

Specifications

Gatherer Points
Center and Outer Gatherer Sheets
Type of Gatherer Chains
Minimum Clearance Between Gatherer Chains and Ground
Row Unit Drive
Gatherer Chain Adjustment
Stalk Rolls
Deck Plate Adjustment
Slip Clutch
Trash Knives

10 15

HX1581,1015,AE -19-03OCT94

Specifications

10 15

Approximate Overall Width for Storage—
443
444
546
643
644
645 6096 mm (20 ft.)
843 6299 mm (20 ft. 8 in.)
844
1243
Approximate Overall Length for
Storage—All Corn
Heads
(10.11)
Approximate Shipping Weight of
Corn Head—(Includes Shipping Skid)
443
444
546
643
644
645
843
844
,
(Specifications and design subject to change without notice.) HX1581,1015,AF -19-030CT94

90 SERIES CORN HEAD

Specifications given in the manual are intended for service only and do not include normal factory manufacturing tolerances.

CORN HEAD MODEL	MACHINE MODEL	NUMBER OF ROWS	CORN HEAD MODEL	MACHINE MODEL	NUMBER OF ROWS
493	Forage Harvester 4420 Combine 4425 Combine 4435 Combine 6620 Combine	4	694	6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine 9600 Combine CTS Combine	6
494	Forage Harvester 4420 Combine 4425 Combine 6620 Combine SideHill 6620 Combine 7720 Combine 9400 Combine	4	893	7720 Combine 8820 Combine 9500 Combine 9600 Combine CTS Combine	8
	9500 Combine SideHill 9500 Combine		894	8820 Combine 9600 Combine CTS Combine	8
594	6620 Combine SideHill 6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine SideHill 9500 Combine 9600 Combine CTS Combine	5	1293	8820 Combine 9600 Combine	12
693	6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine 9600 Combine CTS Combine	6			
693 SH	SideHill 6620 Combine SideHill 9500 Combine	6			

TM1581,HX15,E -19-03OCT94

Gatherer Points Low profile floating type hinged above gatherer chains
Center and Outer Gatherers hinged, quick-removable
Type of Gatherer Chains
Minimum Clearance Between
Gatherer Chains and
Ground
Row Unit Drive
Gatherer Chain Adjustment
Stalk Rolls
Deck Plate Adjustment
Slip Clutch One per row unit plus auger drive
Trash Knives Full length one piece heat-treated steel
HX1581,1015,AG -19-030CT94

Specifications

Approximate Overall Width for Storage—
493
494
594
693
693 SH 4928 mm (16 ft. 2 in.)
694
695 6096 mm (20 ft.)
893 6299 mm (20 ft. 2 in.)
894
1293
Approximate Overall Length
for Storage—All Corn
Heads
Points folded up (service position)
Approximate Shipping Weight
of Corn Head—(Includes Shipping Skid)
493
494
594
693
693 SH 1590 kg (3505 lb.)
694
695
893
894
1293
(Specifications and design subject to change without
notice.)

11

CRNHD,90SP,C -19-14SEP93

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50 AND 50A SERIES ROW CROP

(Specifications and design subject to change without notice.)

Specifications given in this manual are intended for service only and do not include normal factory manufacturing tolerances.

ROW-CROP HEAD MODEL	COMBINE MODEL	NUMBER OF ROWS	
454 and 454A	4420, 4425, 4435, 6620, SideHill 6620, 7720, 7721 9400, 9500	4	
653 and 653A	4420, 6220, SideHill 6620, 7720, 8820, 9400, 9500, 9600	6	
654 and 654A	6620, 7720, 8820 9400, 9500, 9600	6	
655 and 655A	7720, 8820, 9500, 9600	6	
853 and 853A	7720, 8820, 9500, 9600	8	
Auger			
(Retractable Finger Feeding) 24 in. (610 mm) Diameter 24 in. (610 mm) Speed 100 to 165 rpm Torque to seat fingers 20 lb-ft (27 N·m)			
Crop Gatherer			
Type Belted chains Gatherer belt speed 215 to 352 rpm Drive . Chain Gatherer points Adjustable and floating Row unit sheets Swing-out			
Rotary Knives			
Type Rotary 6 blade with adjustable shear Speed			
Stationary Knives			
Type Fixed Knife material Heat-treated cutting edge			
Skid Shoes			
Type Self-aligning, adjustable to three positions Float range 6 in. (152 mm)			

1581,1015,AAG -19-03OCT94

Specifications

10 15

Approximate Overall Width

454 and 454A 4 m	(13 ft.)
653 and 653A 4.7 m	(15 ft. 6 in.)
654 and 654A 6.3 m	(20 ft. 8 in.)
655 and 655A 6.4 m	(21 ft.)
853 and 853A 6.5 m	(21 ft. 2 in.)

Approximate Overall Length

(All row-crop heads) 3.3 m (11 ft.)

Approximate Shipping Weight

 454 and 454A
 1 220 kg (2880 lbs.)

 653 and 653A
 1 530 kg (3570 lbs.)

 654 and 654A
 1 905 kg (4420 lbs.)

 655 and 655A
 2 063 kg (4550 lbs.)

 853 and 853A
 2 155 kg (5000 lbs.)

(Specifications and design subject to change without notice.)

HX1581,1015,AI -19-03OCT94

UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES

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

	Grade 1				Grade 2 ^b				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
Size	Lubricateda		Drya		Lubricateda		Drya		Lubricateda		Drya		Lubricateda		Drya	
	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
.,,											"-"			000	0.0	
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
1-1/6	570	425	725	530	570	425	725	530	1300	950	1650	1200	2050	1500	2600	1950
1-1/4	370	423	123	550	3/0	423	123	330	1300	930	1030	1200	2030	1300	2000	1930
4.0/0	750	550	050	700	750	550	050	700	4700	4050	0450	4550	0700	0000	0.400	0550
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	l 990	725	1250	930	2250	1650	l 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.

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.

DX TORQ1 -19-20.IUI 94

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.

^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.