4555, 4755, 4955 and 4560, 4760, 4960 Tractors Repair

For complete service information also see:

4555-4955 and 4560-4960 Tractors	
Operation and Tests	TM146
6076 Engines	. CTM
Radial Piston Pumps	. CTM
Engine Accessories	. CTM1
MFWD Axles 1100 Series	. CTM17

John Deere Waterloo Works TM1460 (15MAY01)

LITHO IN U.S.A. **ENGLISH**

Introduction

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 diagnostics. Repair sections tell how to repair the components. Diagnostic 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.

Binders, binder labels, and tab sets can be ordered by John Deere dealers direct from the John Deere Distribution Service Center. This manual is part of a total product support program.

FOS MANUALS—REFERENCE

TECHNICAL MANUALS—MACHINE SERVICE

COMPONENT MANUALS—COMPONENT SERVICE

Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.

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

Component Technical Manuals are concise service guides for specific components. Component technical manuals are written as stand-alone manuals covering multiple machine applications.

RX.TM1460.IFC -19-04APR91

NOTICE TO THE DEALER 55 SERIES AND 60 SERIES TRACTORS

This technical manual covers repair information for 4555, 4560, 4755, 4760, 4955, and 4960 tractors for North America. This manual also covers 4755 and 4955 tractors for the European market.

Repair information will cover all models. Photographs will generally show VERSION A tractors, however, VERSION B tractors will be called out where major differences exist. See reference below.

NOTE: The changes listed below make your current TM obsolete. Discard TM1460 dated 06Jul90. Please remove this page and route through your service department.

Version A

55 Series Tractors North America (AII)

4755—4955 Tractors European Market (—040000)

Version B

60 Series Tractors North America (AII)

4755—4955 Tractors European Market (040001—)

RX,TM1460,DLR -19-30AUG91

TECHNICAL MANUAL CHANGES

SECTION 05—

Added Safety as a Separate Section

• SECTION 20-

Access to Injection Nozzles and Valve Cover on Version B Tractors

• SECTION 30-

Revised Air Intake Procedure

• SECTION 40-

Added Version B Harness Routings

• SECTION 50-

Revised Transmission Repair Procedures

SECTION 55—

Revised Transmission Repair Procedures

• SECTION 70-

Pump Installation Timing

• SECTION 80-

Revised Rear Wheel Adjustment Procedure

SECTION 90—

Added SOUND-GARD Door Adjustment

• SECTION 99-

Revised Dealer Fabricated Tools

Major revisions to this TM are listed above. Some Sections and Groups will have specification, procedure, or formatting changes not listed on this notification.

RX,TM1460,DLR1 -19-04SEP91

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SECTION 05—SAFETY SECTION 50—POWER TRAIN--QUAD-RANGE Group 05—Safety Information TRANSMISSION 05 Group 05—Clutch Oil Pressure Regulating Valve Housing **SECTION 10—GENERAL INFORMATION** Group 10—Clutch Operating Piston Housing Group 05—Machine Specifications Group 15—Perma-Clutch Group 10—Predelivery Service Group 20—Quad-Range Planetary Group 15—Tune-up 10 Group 25—Quad-Range Transmission and Group 20—Lubrication Charge Pump Group 30—Shift Lever Assembly **SECTION 15—SEPARATION** Group 35-PTO Gear Train Group 05—Front Axle Group 40—Adjust PTO Clutch Rod Group 10-Front End 15 Group 15-Front End and Engine **SECTION 55—POWER TRAIN--POWER SHIFT** Group 20-Engine Group 25—SOUND-GARD Body **TRANSMISSION** Group 05—Remove and Install Traction Clutch Group 30—Power Shift Clutch Housing Valve Housing Group 31—QUAD-RANGE Clutch Housing 20 Group 10—Traction Clutch Valve Housing Group 35—Transmission Group 15—Remove and Install Transmission Group 40-Final Drive Control Valve Housing Group 20-Transmission Control Valves and **SECTION 20—ENGINE** Accumulators Group 05—Service 30 Group 25—Remove and Install Traction Clutch Group 10—Cooling System Group 30—Traction Clutch and Drive Shafts Group 35—Input Planetary **SECTION 30—FUEL AND AIR** Group 40—Reduction Gear Train Group 05—Air Intake System Group 45—Output Planetary Group 10-Diesel Fuel System 40 Group 50—Speed Selector Assembly Group 55—Charge Pump Assembly **SECTION 40—ELECTRICAL REPAIR** Group 60-PTO Gear Train WITH MFWD Group 05—Connector Repair Group 65-PTO Gear Train WITHOUT MFWD Group 10—Harness Replacement Group 70-PTO Clutch Rod Group 15—Alternator Group 75-MFWD Gear Train 50 Group 20—Starting Circuit Group 80-MFWD Clutch Group 25—Lighting Circuit Repair Group 30—INTELLITRAK Monitoring System SECTION 56—DIFFERENTIAL AND FINAL DRIVE Group 35—Accessory Components Group 05—Differential Group 40—Hitch Electronic Control Components 55 Group 10—Differential Lock Valve Group 45—Electronic Governor Control Group 15—Final Drive Components Group 50—Auxiliary Lighting and Electrical Components (European) Continued on next page All information, illustrations and specifications in this manual are based on 56 the latest information available at the time of publication. The right is

reserved to make changes at any time without notice.

TM1460-19-15MAY01

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05	Components
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	Group 15—Metering Pump
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	Group 25—Steering Motor
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PREVENT MACHINE RUNAWAY

Avoid possible injury or death from machinery runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

NEVER start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral or park.



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

PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).



DX,SPARKS

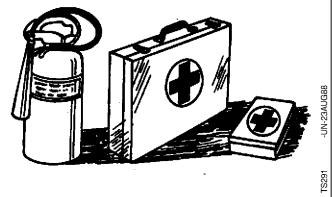
19-04JUN90

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.



DX,FIRE2 -19-04JUN90

PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

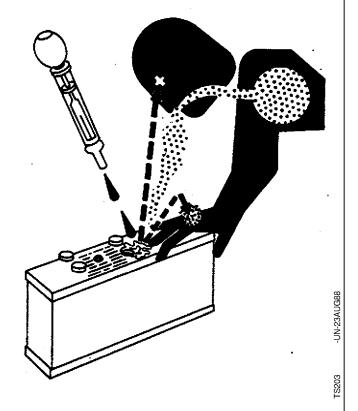
- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling or dripping electrolyte.
- 5. Use proper jump start procedure.

If you spill acid on yourself:

- 1. Flush your skin with water.
- 2. Apply baking soda or lime to help neutralize the acid.
- 3. Flush your eyes with water for 10—15 minutes. Get medical attention immediately.

If acid is swallowed:

- 1. Drink large amounts of water or milk.
- 2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
- 3. Get medical attention immediately.



DX,POISON

9-04JUN90

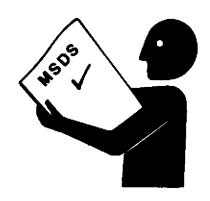
HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



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DX,MSDS,NA -19-15MAR91

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.



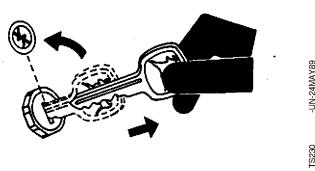
DX,FLUID

19-09AUG91

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.



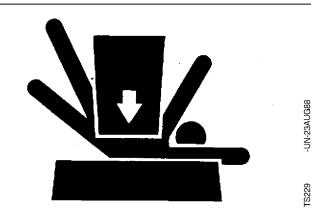
DX,PARK -

-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

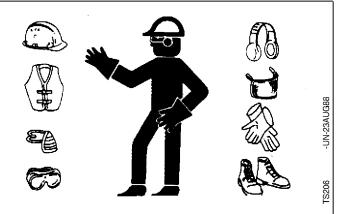
WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

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.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



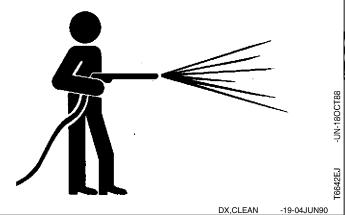
DX,WEAR

-19-10SEP90

WORK IN CLEAN AREA

Before starting a job:

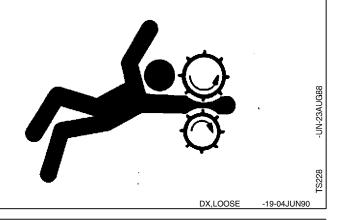
- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- · Read all instructions thoroughly; do not attempt shortcuts.



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.

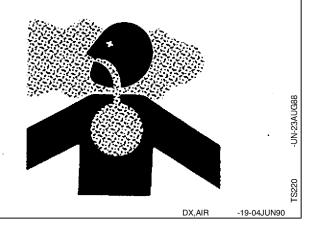
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



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.



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.

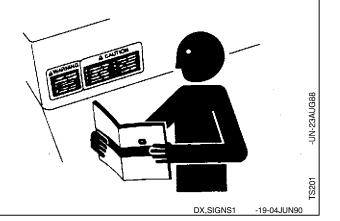


DX,LIGHT

-19-04JUN90

REPLACE SAFETY SIGNS

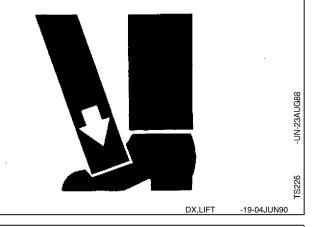
Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.



USE PROPER LIFTING EQUIPMENT

Lifting heavy components incorrectly can cause severe injury or machine damage.

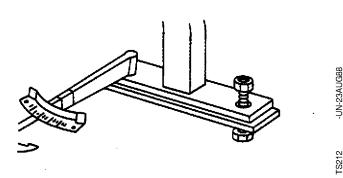
Follow recommended procedure for removal and installation of components in the manual.



KEEP ROPS INSTALLED PROPERLY

Make certain all parts are reinstalled correctly if the roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to proper torque.

The protection offered by ROPS will be impaired if ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting. A damaged ROPS should be replaced, not reused.



(,ROPS3 -19-04JUN

SERVICE TIRES SAFELY

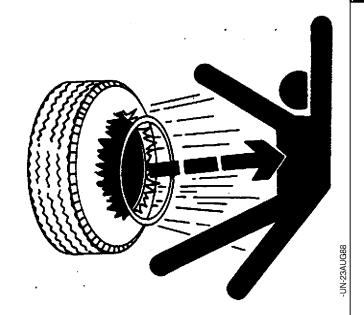
Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



DX,RIM

-19-24AUG90

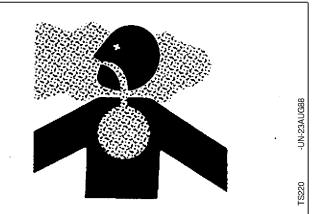
AVOID HARMFUL ASBESTOS DUST

Avoid breathing dust that may be generated when handling components containing asbestos fibers. Inhaled asbestos fibers may cause lung cancer.

Components in products that may contain asbestos fibers are brake pads, brake band and lining assemblies, clutch plates, and some gaskets. The asbestos used in these components is usually found in a resin or sealed in some way. Normal handling is not hazardous as long as airborne dust containing asbestos is not generated.

Avoid creating dust. Never use compressed air for cleaning. Avoid brushing or grinding material containing asbestos. When servicing, wear an approved respirator. A special vacuum cleaner is recommended to clean asbestos. If not available, apply a mist of oil or water on the material containing asbestos.

Keep bystanders away from the area.

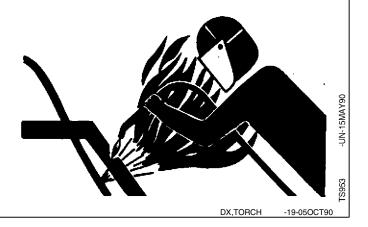


DX,DUST

-19-15MAR91

AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



REMOVE PAINT BEFORE WELDING OR HEATING

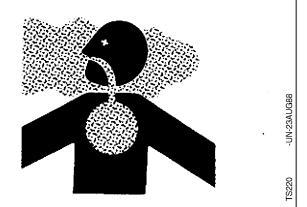
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



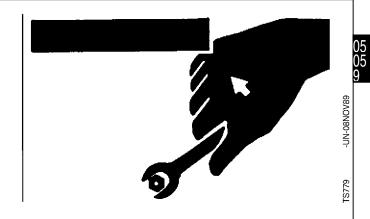
DX,PAINT -19-04JUN90

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

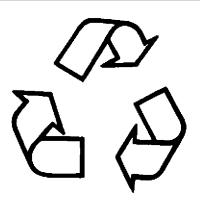
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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.



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6

LIVE WITH SAFETY

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



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DX,LIVE

-19-04JUN90

10

Section 10 GENERAL INFORMATION

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GENERAL SPECIFICATIONS POWER: PTO (Factory observed at 2200 rpm) **ENGINE:** Aspiration: 4555 and 4560 turbocharged 4755, 4760, 4955, and 4960 turbocharged and liquid-to-air after cooled Cylinders in-line 6 Valve clearance Lubrication system full pressure-flow filtration **HYDRAULICS:** Type closed-center, pressure compensating Pump 8-piston, variable displacement Hitch lift capacity 4955 and 4960 * **CAPACITIES:** Transmission-hydraulic system Mechanical-Front-Wheel-Drive Axle Housing 9.5 at. (9 L) * Optional lift-assist cylinder RX14601010,1 -19-05APR91

DIMENSIONS (with standard tires): WHEELBASE LENGTH (less hitch and drawbar) OVERALL WIDTH (axle length) OVERALL HEIGHT (top of SOUND-GARD body) SHIPPING WEIGHT (average): With SOUND-GARD and most popular wheel equipment Two-Wheel Drive: With SOUND-GARD, Power Shift Transmission, MFWD, and standard wheel equipment: RX14601010,3 -19-04APR91

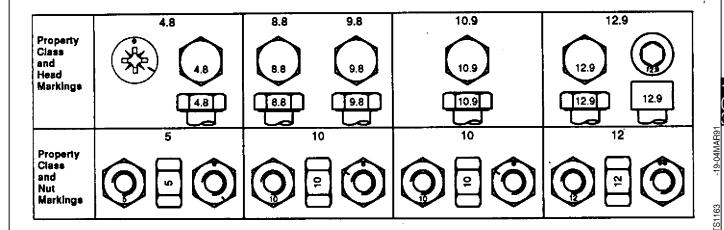
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METRIC BOLT AND CAP SCREW TORQUE VALUES



	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
Size	Lubri	cateda	Dr	'y ^a	Lubri	cateda	Dr	'y ^a	Lubri	cateda	Dr	'y ^a	Lubri	cateda	Di	ry ^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
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	225	320	240	400	300
IVITO	100	73	125	92	190	140	240	175	2/3	200	350	225	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
											ı					
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
Maa	ann	675	1150	850	1750	1300	220	1650	2500	1850	3150	2350	2900	2150	3700	2750
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580

10-05-3

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.

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,TORQ2 -19-05JUN91

^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.

UNIFIED INCH BOLT AND CAP SCREW TORQUE VALUES

SAE Grade and Head Markings	NO MARK	1 or 2 ^b	5 5.1	5.2		8.2
SAE Grade and Nut Markings	NO MARK	2	(3)	+++++++++++++++++++++++++++++++++++++++	(O)	E E E E E E E E E E

Grade 1 Grade 2b 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 $N \cdot m$ lb-ft $N \cdot m$ lb-ft N∙m N⋅m lb-ft 7.5 1/4 3.7 2.8 4.7 3.5 4.5 5.5 9.5 13.5 12.5 5/16 7.7 5.5 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1-1/8 1-1/4 1-3/8 1-1/2

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.

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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.

ABBREVIATIONS

Abbreviations are used in place of some words.

CTM—Component Technical Manual

Dk-Dark

ECU—Electronic Control Unit

FWD-Front Wheel Drive

ID-Inside Diameter

Lt—Light

MFWD-Mechanical Front Wheel Drive

OD—Outside Diameter

PST—Power Shift Transmission

PTO—Power Take-Off

QRT—QUAD-RANGE Transmission

ROPS—Roll-Over Protection Structure

SCV-Selective Control Valve

SGB—SOUND-GARD Body

SMV—Slow Moving Vehicle

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