

# 430 and 530 Round Balers



JOHN DEERE

## TECHNICAL MANUAL 430 and 530 Round Balers

TM1276 (01SEP86) English

John Deere Ottumwa Works  
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LITHO IN U.S.A.  
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# **Excavator Service Repair Manual**

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John Deere 530 BALER REPAIR Manual in the technological know-how of archaeology. The man or woman sorts of excavation are regarded simply as digs to people who participate in, with this being an over literal description of the technique used. An excavation issues itself with a particular archaeological web page or associated collection of web sites, and can be carried on over a amount of years, thinking about that the paintings can normally instances typically be of a seasonal nature. **John Deere 530 BALER REPAIR Manual**

Inside of the enterprise of excavation, many lots greater strategies can be utilized, with each unmarried dig acquiring its very own precise traits which could necessitate variations of technique. Methods and different sensible problems do not permit archaeologists to carryout excavations each time and anyplace they choose, as many regarded web sites have additionally been intentionally left on my own and non excavated.

At first, excavation requires the eliminating any topsoil this is found with the aid of using an excavator machine. What is dug up can be reviewed with the aid of using a metallic detector for

# 430 and 530 ROUND BALERS Technical Manual TM-1276 (Sep-86)

## SECTION AND GROUP CONTENTS

### SECTION 10—GENERAL

- Group 05—Safety
- Group 10—Specifications
- Group 15—General Information
- Group 20—Lubrication

### SECTION 20—DRIVE TRAIN

- Group 05—General Information
- Group 10—PTO Hookup
- Group 15—Gear Case and Input Shaft
- Group 20—Roll Drives

### SECTION 30—HYDRAULICS

- Group 00—Special Equipment
- Group 05—General Information, Diagnosis,  
and Tests
- Group 10—Hydraulic System
- Group 15—Cylinders
- Group 20—Single Spool Valve

### SECTION 40—TWINE MECHANISM

- Group 05—Automatic Twine Wrap System
- Group 10—Replace and Adjust Components

### SECTION 50—ELECTRICAL

- Group 00—Special Tools
- Group 05—General
- Group 10—Diagnosing Electrical Malfunctions
- Group 15—Electrical Adjustments
- Group 20—Check Electrical Functions

### SECTION 60—PICKUP

- Group 05—Diagnosing Pickup Malfunctions
- Group 10—Repair and Replace Components
- Group 15—Remove Pickup
- Group 20—Disassemble Pickup
- Group 25—Pickup Adjustments

### SECTION 70—MISCELLANEOUS

- Group 05—Wheel Hub
- Group 10—Converging Wheel
- Group 15—Tension Arm
- Group 20—Remove Gate
- Group 25—Remove and Install Tongue

*All information, illustrations and specifications contained in this technical 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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# Section 10 GENERAL

## CONTENTS

	Page
<b>Group 05 - SAFETY</b>	10-05-01
<b>Group 10 - SPECIFICATIONS</b>	10-10-01
Torque Chart .....	10-10-03
<b>Group 15 - GENERAL</b>	
Description .....	10-15-01
Tractor Requirements .....	10-15-01
<b>GROUP 20 - LUBRICATION</b>	
Grease .....	10-20-01
Gear Case Oil .....	10-20-01
Hydraulic Oil .....	10-20-02
Alternative Lubricants .....	10-20-02

## OBSERVE SAFETY RULES



**CAUTION:** This safety alert symbol identifies important safety messages in this manual and on the machine. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Avoid loose clothing that can catch in moving parts and put you out of work.

Wear your safety glasses while on the job.

Avoid working on equipment with the engine running. If it is necessary to make checks with the engine running, ALWAYS USE TWO PEOPLE—with the operator, at the controls, able to see the person doing the checking. Also, put the transmission in neutral, set the brake, and apply safety locks provided. KEEP HANDS AWAY FROM MOVING PARTS.

Don't attempt to check belt tension while the engine is running.



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## OBSERVE "IMPORTANT" MESSAGES

Messages labeled "Important" will appear in this manual and/or on the machine to provide specific instructions for performing adjustments, services, etc. If these instructions are not followed, it could result in damage to the machine.

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## NOTES

The word *NOTE* is followed by a statement that identifies a qualification or exception to a previous statement. A "NOTE" may also identify nice-to-know information pertinent to, but not directly related to the previous statement.

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### FOLLOW SAFE PRACTICES

Wear safety equipment.

Wear fairly tight clothing.

Keep the service area clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment.

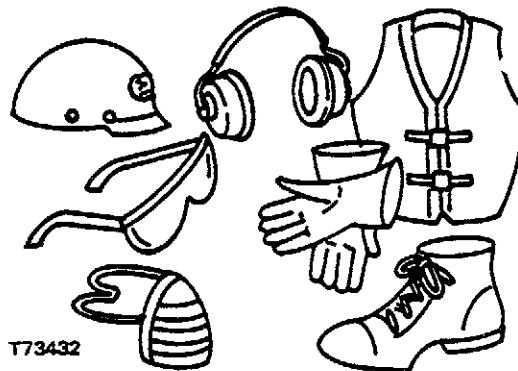
Make sure the service area is adequately vented.

Periodically check the shop exhaust system for leakage. Engine exhaust gas is dangerous.

Be sure all electrical outlets and tools are properly grounded.

Use adequate light for the job at hand.

Use lifting equipment and safety stands which have adequate strength for the job being performed.

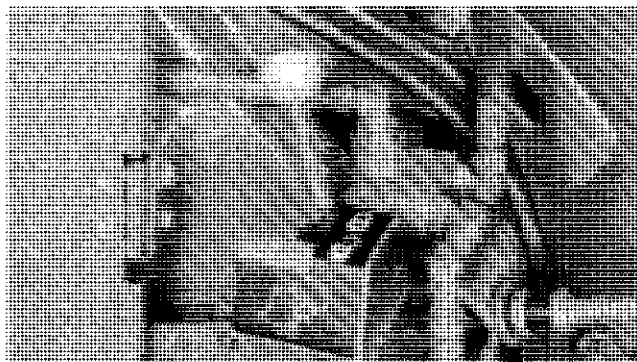


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Position gate lock valve to locked position before working on or around baler with gate in raised position.

To avoid injury stay clear of gate while it is being raised and lowered.

Be sure bystanders are clear before operating gate.



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### AVOID HIGH PRESSURE-FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



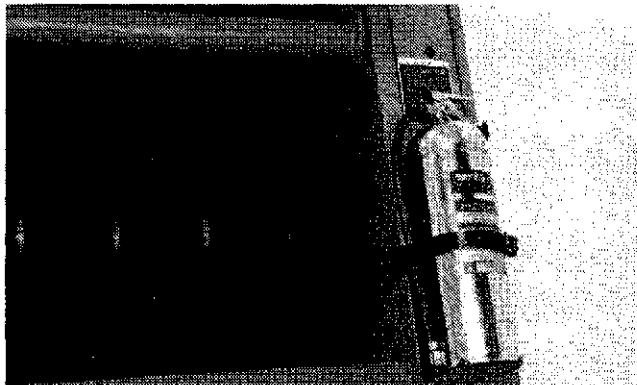
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## AVOID FIRE HAZARDS

Be prepared if an accident or fire should occur. Know where the first aid kit and the fire extinguishers are located and know how to use them.

Don't smoke while refueling or handling highly flammable material.

Don't use open pans of gasoline or diesel fuel for cleaning parts. Use good commercial, nonflammable solvents.



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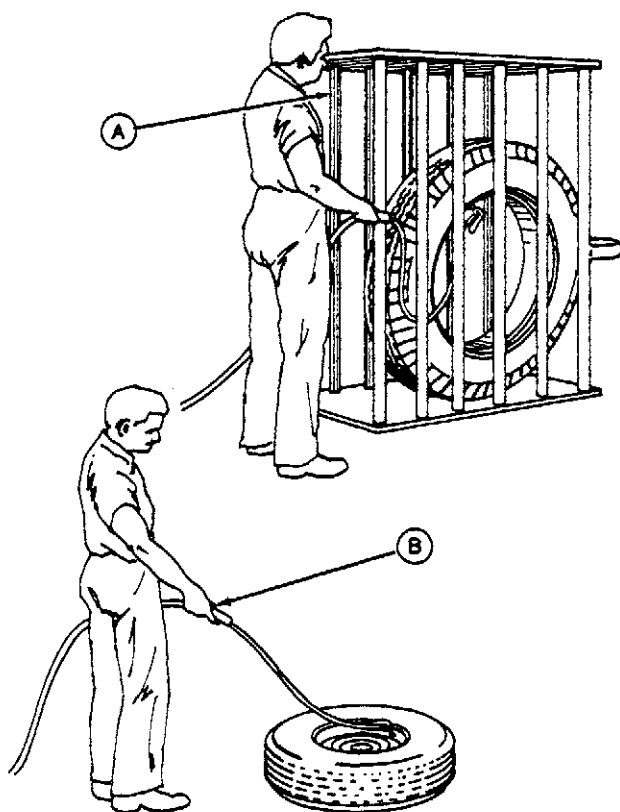
## SERVICE TIRES SAFELY

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed 35 psi (241 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead and reinflate.

Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

- A—Use a Safety Cage if Available.
- B—Do Not Stand Over Tire. Use a Clip-on Chuck and Extension Hose.



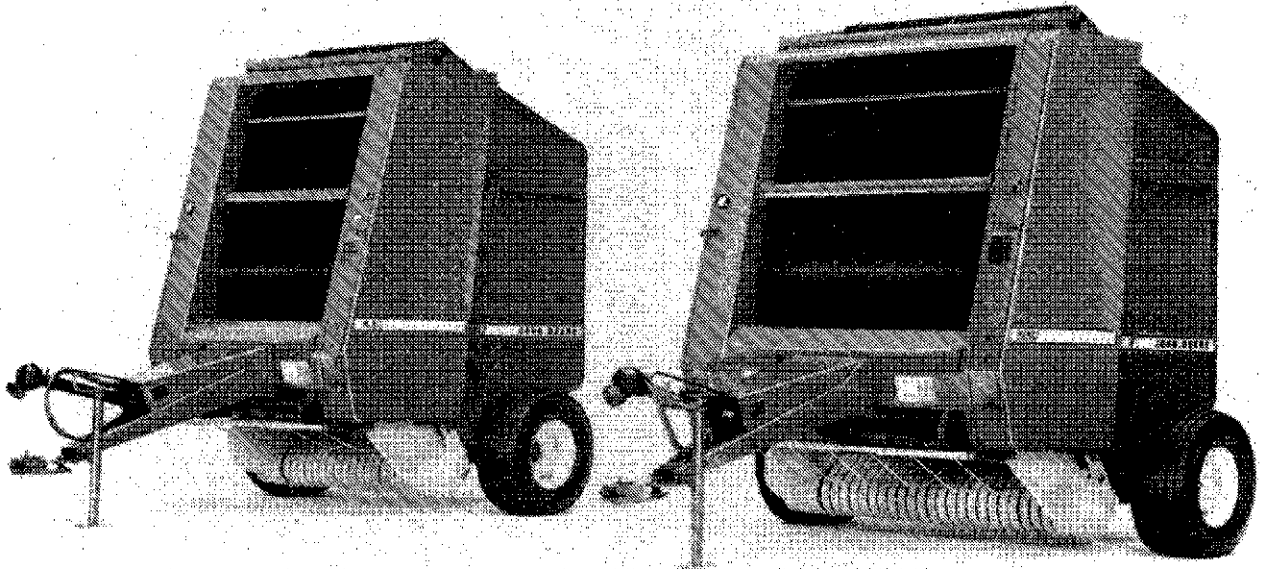
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## DO NOT MODIFY MACHINE

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

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**SPECIFICATIONS**



**BALE:**

Diameter .....	1000 mm up to 1829 mm (39 in. up to 72 in.)
Width	
430 .....	1170 mm (46 in.)
530 .....	1565 mm (61.6 in.)
Weight	
430 .....	630 kg (1400 lbs)
	(Depending on crop and moisture content)
530 .....	833 kg (1850 lbs)
	(Depending on crop and moisture content)

**BALER:**

Weight	
430 .....	1773 kg (3940 lbs)
530 .....	1958 kg (4350 lbs)
Length, gate closed .....	3710 mm (146 in.)
Length, gate open .....	4750 mm (187 in.)
Height, gate closed .....	2810 mm (110 in.)
Height, gate open .....	3640 mm (143 in.)
Width	
430 .....	2450 mm (96 in.)
530 .....	2840 mm (112 in.)



## Specifications

### PICKUP:

Width (inside)	
430 .....	1170 mm (46 in.)
530 .....	1565 mm (61.6 in.)
Width (on flare)	
430 .....	1410 mm (55.5 in.)
530 .....	1810 mm (71 in.)
Width (between outer teeth)	
430 .....	1120 mm (44 in.)
530 .....	1520 mm (60 in.)
Bars .....	4
Number of teeth	
430 .....	72
530 .....	96
Tooth spacing .....	66 mm (2.6 in.)
Stripper diameter .....	255 mm (10 in.)

### FORMING BELTS:

Number	
430 .....	6
530 .....	8
Type .....	3-ply fabric, diamond tread
Length	
430 .....	2 - 13 330 mm (525 in.)
	4 - 13 490 mm (531 in.)
530 .....	4 - 13 330 mm (525 in.)
	4 - 13 490 mm (531 in.)

### TWINE WRAP:

Control .....	Self-activating, automatic to preset bale size
Type .....	Hydraulic, self-contained
Spacing .....	Adjustable, infinitely variable

### OPERATOR'S CONSOLE:

Bale forming monitors .....	Dial indicators
Near-full bale indicator .....	Flashing yellow light
Auto-wrap indicator .....	Solid yellow light
Oversize bale protection .....	Red light with audible warning
Gate closed .....	Green light
Tire size .....	11L x 14, 6-ply rating 31.5 x 13.5 option
PTO shaft speed .....	540 or with 1000 rpm conversion
Drive protection .....	Slip clutch
Tractor recommended .....	430 - 50 hp (37.5 kW) minimum
	530 - 70 hp (52.5 kW) minimum

(Specifications and design are subject to change without notice.)

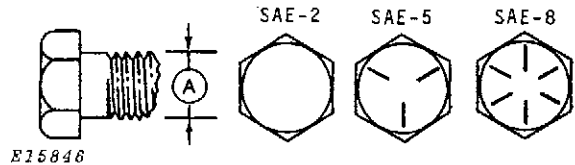
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## BOLT TORQUE CHARTS

The tables shown below give correct torque values for various bolts and cap screws. Check bolts periodically, using bolt torque chart as a guide.

### U.S. MEASUREMENT

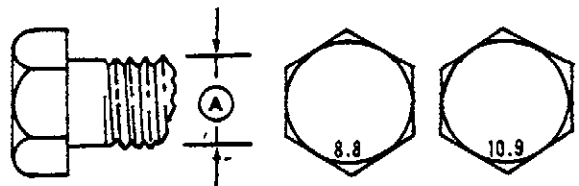
Bolt Diameter "A"	Bolt Torque in Lbs-Ft (N·m)					
	SAE 2	SAE 5	SAE 5		SAE 8	
1/4"	Not Used	14	(10)	19	(14)	
5/16"	Not Used	27	(20)	41	(30)	
3/8"	23	(31)	35	(47)	50	(68)
7/16"	35	(47)	55	(75)	80	(108)
1/2"	55	(75)	85	(115)	120	(163)
9/16"	75	(102)	130	(176)	175	(237)
5/8"	105	(142)	170	(231)	240	(325)
3/4"	185	(251)	300	(407)	425	(576)
7/8"	160	(217)	445	(603)	685	(929)
1"	250	(339)	670	(910)	1030	(1396)
1-1/4"	330	(450)	910	(1235)	1460	(1979)



Replace hardware with the same strength bolt.

### METRIC MEASUREMENT

Bolt Diameter "A"	Bolt Torque in Lbs-Ft (N·m)			
	8.8	8.8	10.9	10.9
5 mm	5	(6)	7	(9)
6 mm	9	(11)	13	(17)
8 mm	20	(28)	30	(40)
10 mm	40	(55)	59	(80)
12 mm	70	(95)	103	(140)
16 mm	173	(235)	258	(350)
20 mm	350	(475)	498	(675)
24 mm	608	(825)	863	(1170)
30 mm	1201	(1630)	1712	(2320)



**NOTE:** Bolts having lock nuts should be torqued to approximately 65% of amounts shown in above chart.

## DESCRIPTION

The 430 and 530 Round Balers consist of a main frame and wheels, pickup, belts, gate and bale wrapping system.

Power is provided from a 540 rpm tractor PTO. Both balers can be converted from 540 to 1000 rpm.

The tractor PTO drives a hydraulic pump on the baler which provides the hydraulic pressure to operate the twine cylinder.

Two sets of hydraulic cylinders operate from the tractor hydraulic system. One set raises and lowers the gate. The other set raises and lowers the center arm and works in conjunction with springs to provide bale tension.

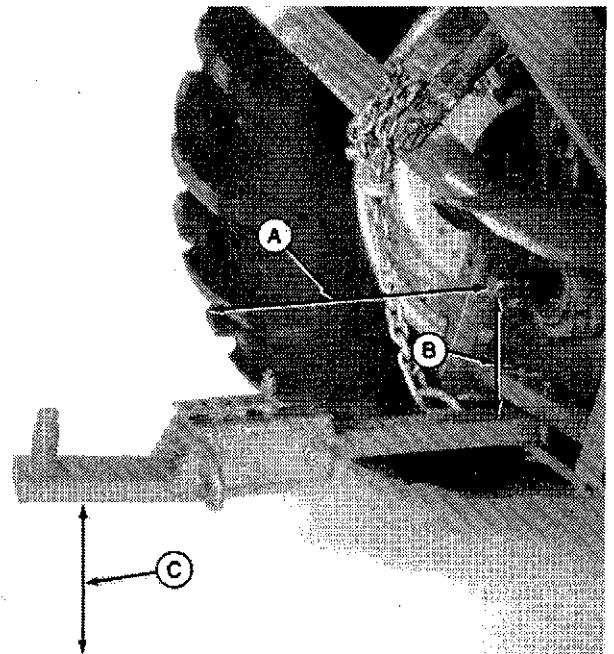
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## TRACTOR HOOKUP

**IMPORTANT:** Unequal angles occur during a turn if the tractor drawbar is not set to the correct length. Turning with unequal angles while operating the machine will cause noise and vibration and premature failure of powerline components.

Correct tractor drawbar hookup dimensions are:

(540 rpm)	(1000 rpm)
A—356 mm (14 in.)	406 mm (16 in.)
B—152-305 mm (6-12 in.)	152-305 mm (6-12 in.)
C—330-432 mm (13-17 in.)	330-432 mm (13-17 in.)



3FA;E22116 E01;1015 F 221182

**CAUTION:** Do not clean, lubricate, or adjust baler while it is in motion.

**IMPORTANT:** The lubrication period recommended is based on normal conditions. Severe or unusual conditions may require more frequent lubrication or oil changes.

See operator's manual for detailed instructions.

Clean grease fittings before using grease gun. Replace any lost or broken fittings immediately. If a new fitting fails to take grease, remove it and check for failure of adjoining parts.

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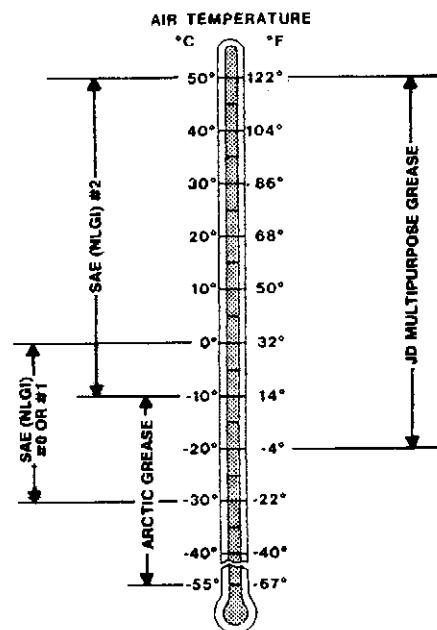
### GENERAL PURPOSE GREASE

Depending upon the expected air temperature range during the service interval, use grease as shown on the adjoining temperature chart.

John Deere Multipurpose Grease is recommended. If other greases are used, use:

- SAE Multipurpose Grease
- SAE Multipurpose Grease containing 3 to 5 per cent molybdenum disulfide.

At temperatures below  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ), use arctic greases such as those meeting Military Specification MIL-G-10924C.



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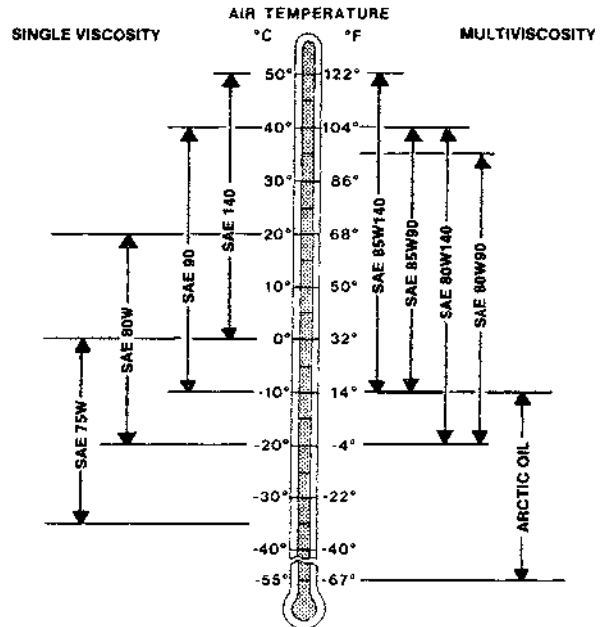
## GEAR CASE OIL

Depending upon the expected air temperature range during the drain interval, use oil viscosity shown in the temperature chart.

John Deere API GL-5 Gear oil is recommended. If other oils are used, they must be oils meeting the following requirements:

- API Service Classification GL-5
- Military Specification MIL-L-2105B
- Military Specification MIL-L-2105C

At temperatures below  $-35^{\circ}\text{C}$  ( $-31^{\circ}\text{F}$ ), use arctic oils such as those meeting Military Specification MIL-L-10324A.



3FA;X9322 E01;1020 I 310183

## HYDRAULIC OIL

Use John Deere All-Weather Hydrostatic Fluid or Type "F" automatic transmission fluid.

3FA; E01;1020 J 221182

## ALTERNATIVE LUBRICANTS

Conditions in certain geographical areas may require special lubricants and lubrication practices which do not appear in this operator's manual. If you have any questions, consult your John Deere dealer to obtain the latest information and recommendations.

3FA; E01;1020 K 221182

# Section 20 DRIVE TRAIN

## CONTENTS

	Page		Page
<b>GROUP 05—GENERAL INFORMATION</b>		<b>GROUP 20—ROLLS AND ROLL DRIVE</b>	
Drive Train . . . . .	20-05-1	General Information . . . . .	20-20-1
Operating RPM . . . . .	20-05-1	Remove Upper Belt Drive Roll . . . . .	20-20-3
<b>GROUP 10—PTO HOOKUP</b>		Remove Lower Gate Roll . . . . .	20-20-4
General Information . . . . .	20-10-1	Remove Lower Rear Gate Roll . . . . .	20-20-5
Inspect Straightness of PTO Hookup . . . . .	20-10-1	Adjust Belt Tracking . . . . .	20-20-6
Remove PTO POWR-GARD®		Replace Top Idler Roll . . . . .	20-20-6
Hookup . . . . .	20-10-1	Remove Center and Rear Tension	
Disassemble PTO POWR-GARD		Arm Rolls . . . . .	20-20-7
Hookup . . . . .	20-10-2	Remove Starter Roll . . . . .	20-20-8
Assemble PTO POWR-GARD		Remove Lower Belt Drive Roll . . . . .	20-20-10
Hookup . . . . .	20-10-5	Roll to Side Sheet Spacing . . . . .	20-20-11
Assemble Quik-Detach Hookup . . . . .	20-10-5	Remove Belt Staggering Roll . . . . .	20-20-12
<b>GROUP 15—GEAR CASE AND INPUT SHAFT</b>		Remove Front Idler Roll . . . . .	20-20-12
Specifications . . . . .	20-15-1	Remove Front Tension Arm Idler Roll . . . . .	20-20-13
Special Tools . . . . .	20-15-1	Remove Top Arm Roll . . . . .	20-20-13
Materials . . . . .	20-15-1	Remove Upper Rear Gate Roll . . . . .	20-20-14
General Information . . . . .	20-15-2	Replace Bearings with Cast	
Remove Gear Case . . . . .	20-15-2	Housings . . . . .	20-20-14
Disassemble Superior Gear Case . . . . .	20-15-3	Replace Bearings with Steel	
Inspect Gear Case Parts . . . . .	20-15-6	Flangettes . . . . .	20-20-15
Assemble Superior Gear Case . . . . .	20-15-6	Replace Bearings in Roll . . . . .	20-20-15
Disassemble Comer Gear Case . . . . .	20-15-8	Adjust Roll Scraper . . . . .	20-20-16
Inspect Gear Case Parts . . . . .	20-15-12	Adjust Chains . . . . .	20-20-16
Install Input Shaft . . . . .	20-15-13		
Install Output Shaft . . . . .	20-15-15		
Install Gear Case and Slip Clutch . . . . .	20-15-17		
Adjust Slip Clutch . . . . .	20-15-21		
Slip Clutch Torque Values . . . . .	20-15-21		
Convert Baler to 1000 RPM . . . . .	20-15-22		

# Excavator Service Repair Manual

stray unearths however except the excavation web page has persevered to be untouched for a prolonged duration of time, there's a tiny layer of present day fabric at the floor this is of constrained archaeological interest.

In farm areas, any form of archaeological attributes need to be apparent underneath the floor. With city areas, they'll be thick layers of human deposits and simplest the uppermost may be seen to the bare eye. With both case, the first actual project is drawing a scaled web page plan which could display the rims of the excavation. This approach may be composed the usage of tape measures, or as it is greater not unusualplace those days, an digital general station. A grid is normally set up, to divide the web page.

Excavation is moreover beneficial for digging out homes and ditches. When clearing dust out for roads or sub divisions, excavation is what looks after matters. Even aleven though there are some means, the time period excavation is used each time that the earth or dust is disturbed. Heavy equipment is likewise very not unusualplace with excavation, consisting of excavator machines or backhoes. Excavating crews run the system and dig up soil and rocks for regardless of the cause can be. Excavator machines are the maximum normally used equipment, as they could flow some of dust in a touch little bit of time.

Anytime you're collaborating in excavation, you need to continually use clever practices and be safe. If you intend to get down right into a hollow or trench, you need to continually use a trench box. Even aleven though the hollow won't be that deep, excavation web sites can regularly give way and at that point - matters are very risky and probably even deadly. For digging up uncommon artifacts or installing homes or roads, excavation is a few aspect that has been round for years and years. There can be lots to discover with excavation, as you will want to discover the satisfactory manner to run an excavator machine, shoot grade, and simply a way to nicely dig holes and ditches in order that they might not give way.

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wheeled loaders

wheel loaders

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excavator volvo 480

480 volvo excavator

volvo 700 excavator

volvo excavator 700

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vantage equipment

volvo ec750e price

mini front end loader

volvo 750 excavator price

pipelayer

55c

45c

scat track

volvo l90

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volvo articulated dump truck

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terex trucks

volvo 140 excavator

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volvo 480 excavator

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volvo 750 excavator specs

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dump truck volvo

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volvo a25g

a40f volvo

volvo a30g

volvo a40d

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volvo l 90h

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volvo heavy equipment dealership

volvo 750 excavator weight

volvo articulating truck

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construction excavator

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volvo l70

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volvo 350

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volvo excavator 220

volvo rollers

volvo ecr38

volvo rental equipment

a30d volvo

volvo l90 specs

gold rush excavator

volvo ec750e specs

volvo 290

volvo motor grader

volvo articulated truck

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vantage wear

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volvo 160 excavator

volvo a40g specs

volvo equipment rental

volvo track hoe

volvo a60

volvo pavers

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