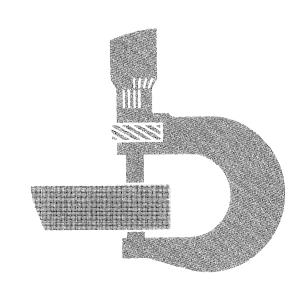
3150 Tractor

TECHNICAL MANUAL





3150 TRACTOR **TECHNICAL MANUAL** TM-4410

SECTION CONTENTS IN GROUPS - REPAIR

10 - GENERAL

05 - Specifications

10 - Pre-delivery, delivery and after-sales

inspections

15 - Lubrication and service

20 - Tune-up

25 - Tractor separation

20 - ENGINE

05 - Radiator

30 - FUEL AND AIR INTAKE SYSTEM

05 - Fuel tank, auxiliary tank and water trap

10 - Cold weather starting aids

15 - Speed control linkage

20 - Air filter

40 - ELECTRICAL SYSTEM

05 - Wiring harnesses

10 - Controls and instruments

15 – Lighting system

20 - Starting motor

25 - Alternator

50 - POWER TRAIN

05 - Clutch operating linkage

10 - Engine clutch

15 - Hi-Lo shift unit

20 - Transmission shift linkage

25 - Synchronized transmission and

transmission oil pump

30 - Differential

45 - Front PTO

35 - Final drives 40 - PTO

50 - Front wheel drive u.j. drive shaft

and disk clutch

60 - STEERING SYSTEM AND BRAKES

05 - Hydrostatic steering

10 - Hydraulic brakes

15 - Handbrake

70 - HYDRAULIC SYSTEM

05 - Valves

10 - Hydraulic pumps

15 - Rockshaft

20 - Front hitch

25 - Selective control valves (poppet valve type)

30 - ISO breakaway couplers

35 - Remote cylinder

80 - MISCELLANEOUS

05 - Front and rear wheels

90 - OPERATOR'S STATION

05 - Air conditioning system

10 - Cab ventilation and heating

15 - Operator's seat

20 - SOUND-GARD body

25 - FOUR-POST ROLL GARD

© by Deere & Co., European Office,

D-6800 Mannheim

INHALT-LA901AE-020186

SECTION CONTENTS IN GROUPS - OPERATION AND TESTS

220 - ENGINE

05 - Radiator

10 - Tests

230 - FUEL AND AIR INTAKE SYSTEM

05 - Fuel tank, auxiliary tank and water trap

10 - Cold weather starting aids

15 - Speed control linkage

20 - Air filter

240 - ELECTRICAL SYSTEM

05 – Operation, diagnosing malfunctions, wiring diagrams

10 - Testing circuits and components

15 - Lighting system

20 - Starting motor

25 - Alternator

250 - POWER TRAIN

05 - Clutch operating linkage

10 - Engine clutch

15 - Hi-Lo shift unit

20 - Transmission shift linkage

25 - Synchronized transmission and

transmission oil pump

30 - Differential

35 - Final drives

40 - Independent PTO

45 - Front PTO

50 - Front wheel drive u.j. drive shaft

and disk clutch

260 - STEERING SYSTEM AND BRAKES

05 - Hydrostatic steering

10 - Hydraulic brakes

15 - Handbrake

270 - HYDRAULIC SYSTEM

05 - Operation and tests

10 - Hydraulic pumps

15 - Rockshaft

20 - Front hitch

25 - Selective control valves (poppet valve type)

30 - ISO breakaway couplers

35 - Remote cylinder

290 - OPERATOR'S STATION

05 - Air conditioning system

10 - Cab ventilation and heating

INHALT-LA902AE-020186

Group 10 GENERAL

CONTENTS OF THIS SECTION IN GROUPS

05 - SPECIFICATIONS	10 – PREDELIVERY, DELIVERY AND AFTER-SALES INSPECTIONS
Specifications 10-05-1 - Serial number plates 10-05-1 - Product identification number 10-05-1 - Engine serial number 10-05-1 - Transmission serial number 10-05-1 - Front wheel drive serial number 10-05-2 - SOUND-GARD Body serial number 10-05-2 - ROLL-GARD serial number 10-05-2 - Model serial numbers 10-05-3	Special tools 10-10-1 Specifications 10-10-2 Capacities 10-10-3 Torques for hardware 10-10-3 Predelivery inspection 10-10-4 Delivery inspection 10-10-20 After-sales inspection 10-10-21
- Engine 10-05-4 - Engine clutch 10-05-5	15 - LUBRICATION AND SERVICE
— Cooling system 10-05-5 — Fuel system 10-05-5 — Electrical system 10-05-5 — Synchronized transmission 10-05-5 — Hi-Lo shift unit 10-05-5 — Differential and final drives 10-05-6 — Differial lock 10-05-6 — PTO 10-05-6 — Front PTO 10-05-6 — PTO speeds 10-05-6 — Front wheel drive 10-05-7 — Hydrostatic steering 10-05-7 — Hand brake 10-05-7 — Hydraulic system 10-05-7 — Hydraulic system 10-05-7 — Rockshaft 10-05-7 — Front hitch 10-05-7 — Front and rear wheels 10-05-8 — Dimensions and weights 10-05-8 — Standard torques for hardware 10-05-8	Specifications 10-15-1 Capacities 10-15-1 Service intervals 10-15-1 Lubrication and service intervals 10-15-2 Capacities and service period 10-15-3 General 10-15-4 Engine oil 10-15-4 Transmission/hydraulic oil 10-15-5 Oil for mechanical front wheel drive 10-15-5 EP multi-purpose grease 10-15-6 Storing lubricants 10-15-6 Brake fluid for clutch operating system 10-15-6 Engine coolant 10-15-7 Checking engine oil level 10-15-7 Changing engine oil filter 10-15-8 Changing engine oil filter 10-15-8 Checking fuel filter 10-15-9 Replacing coolant 10-15-10 Checking transmission/hydraulic system in 10-15-11 Changing transmission/hydraulic oil filter element 10-15-13
	ALLGEM-LA91001AE-091285

General

CONTENTS OF THIS SECTION IN GROUPS				
15 - LUBRICATION AND SERVICE (Contd.)	Checking lighting system			
Cleaning hydraulic pump filter	switch			
strainer	Checking operation of starting			
Replacing brake fluid for clutch	motor			
operating system 10-15-13	Final engine check 10-20-9			
Checking axle housing oil level 10-15-14 Checking oil level in wheel hub	Checking tractor operation 10-20-9			
housings				
Changing axle housing oil 10-15-14	25 - TRACTOR SEPARATION			
Changing wheel hub housing oil 10-15-14 Cleaning lubricating points 10-15-15	Special tools			
Lubricating universal-jointed	Torques for hardware			
drive shaft	Capacities			
Lubricating front axie carrier 10-15-15	Standard torques for hardware 10-25-7			
Lubricating oscillating support 10-15-15	Important notes			
Lubricating front wheel drive axle 10-15-16	Removing tractor front end			
Lubricating three-point hitch 10-15-16	Installing tractor front end 10-25-17			
Lubricating rear axle bearings 10-15-16	Separating between engine and clutch			
Lubricating front hitch	housing 10-25-19			
	Joining tractor between engine			
	and clutch housing 10-25-27			
20 - TUNE-UP	Removing engine			
	Installing engine			
Specifications 10-20-1	Removing clutch housing			
Preliminary engine testing	Installing clutch housing			
Checking air cleaner element	Removing transmission			
Checking air intake system connections	Installing transmission			
for leaks	Removing final drives			
clogging	Removing rockshaft			
Cleaning radiator side panels and	Installing rockshaft			
grille screens	Removing front wheel drive axle 10-25-59			
Cleaning radiator and oil cooler 10-20-4	Installing front wheel drive axle 10-25-61			
Cleaning condensor	Removing SOUND-GARD Body or			
Checking radiator cap	ROLL-GARD 10-25-64			
Checking radiator for leaks 10-20-4	Installing SOUND-GARD Body or			
Checking thermostats 10-20-5	Roll-Gard 10-25-74			
Checking fuel transfer pump 10-20-5	Removing front hitch			
Checking fuel filter	Installing front hitch 10-25-80			
Checking fuel tank	Removing front PTO			
Checking auxiliary fuel tank	Installing front PTO			
Cleaning water trap				
Checking fuel injection pump				
adjustment				
idle speeds				
Checking speed control linkage				
adjustment				
Checking batteries				
Checking fan belt tension				
Checking compressor belt tension 10-20-8				
•				
	ALLGEM-LA91002AE-091285			

SPECIFICATIONS

SERIAL NUMBER PLATES

The following illustrations show the serial number plates for tractor major components. The letters and figures on these plates are required for warranty claims and when ordering replacement parts.

TECHDA-LA71005AE-180385

PRODUCT IDENTIFICATION NUMBER

The product identification number plate is located on right-hand side of front axle carrier.

The chassis number is stamped in front axle carrier next to the number plate.

NOTE: When ordering tractor parts (excluding engine parts), quote all letters and figures of serial number stamped on this plate.

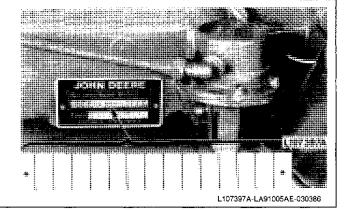


L105176A-LA91005AE-051185

ENGINE SERIAL NUMBER

The engine serial number plate is located on right-hand side of engine block.

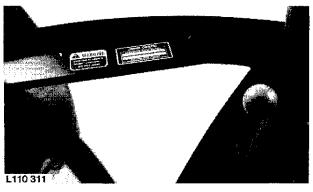
NOTE: When ordering engine parts, quote all figures on this plate.



TRANSMISSION SERIAL NUMBER (Tractors with SOUND-GARD Body)

The transmission serial number plate is located on right-hand crossmember of SOUND-Gard Body and on right-hand side of transmission case.

NOTE: In addition to serial number of transmission and transmission type, this serial number plate also specifies differential and front wheel drive gear ratios.

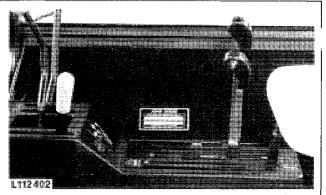


L110311-LA91005AE-030386

TRANSMISSION SERIAL NUMBER (Tractors with ROLL-GARD)

The transmission serial number plate is located next to the right-hand side of shift console and on right-hand side of transmission case.

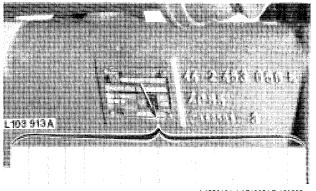
NOTE: In addition to serial number of transmission and transmission type, this serial number plate also specifies differential and front wheel drive gear ratios.



L112402-LA91005AE-051185

FRONT WHEEL DRIVE AXLE SERIAL NUMBER

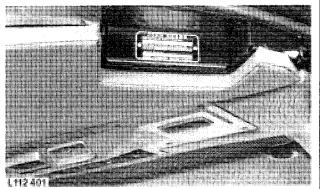
The front wheel drive axle serial number plate is located on rear of right-hand axle half.



L103913A-LA71005AE-180385

SOUND-GARD BODY SERIAL NUMBER

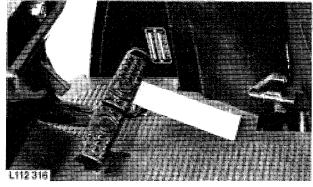
With operator's cab door open, cab serial number plate is visible in roof recess as you enter the cab.



L112401-LA91005AE-051185

ROLL-GARD SERIAL NUMBER

The ROLL-GARD serial number plate is located on the longitudinal support.



L112316-LA91005AE-051185

MODEL SERIAL NUMBERS

Fuel injection pump, fuel injection nozzles, alternator, starting motor, hydrostatic steering valve, air conditioning system compressor (when equipped) and hydraulic pump have serial numbers to facilitate identification of different makes of a given unit.

TECHDA-LA71005BE-180385

ENGINE	
Number of cylinders	. 6
Cylinder liner bore	. 106.5 mm (4.19 in.)
Stroke	. 110 mm (4.33 in.)
Displacement	. 5883 cm³ (359 cu.in.)
Compression ratio	. 17.4 : 1
Max. torque at 1400 rpm	. 392 Nm (289 ft-lb)
Firing order	. 1–5–3–6–2–4
Valve clearance (engine hot or cold) - Intake valve - Exhaust valve	
Slow idle speed	880 to 920 rpm
Fast idle speed	2510 to 2610 rpm
Rated engine speed	. 2400 rpm
Working speed range	. 1400 to 2400 rpm
Engine speed for PTO operation	2400 rpm
Flywheel horsepower at engine rated speed of 2400 rpm – According to DIN 70 020	82 kW (112 hp)
of 2400 rpm - According to SAE J 816 b	71 kW (95 hp)
Lubrication system	
* With the engine run in (above 100 hours of operation) and at operating temperature (engine and transmission), measured by means of a dynamometer Permissible variation ± 5%	

TECHDA-LA91005AE-051185

ENGINE CLUTCH					
- Type	Single dry disk clutch with torsion damper, foot-operated				
COOLING SYSTEM					
- Type Temperature regulation	Pressurized system with centrifugal pump Two thermostats				
FUEL SYSTEM					
 Type Fuel injection pump timing to engine Fuel injection pump type Air cleaner 	Direct injection TDC Distributor type with two pistons Stanadyne no. DB2 4378 Dry-type air cleaner with secondary (safety) element				
ELECTRICAL SYSTEM					
- Batteries	2 x 12 volt, 88 Ah 14 volt, 55 amps. 12 volt, 3 kW (4 hp) negative				
SYNCHRONIZED TRANSMISSION					
- Type	Synchronized transmission 8 forward and 4 reverse Two forward groups and one reverse group; Synchronized forward and reverse shifting within groups				
HI-LO SHIFT UNIT					
- Type	Hydraulic gear reduction unit which can be shifted under load with "wet" multiple disk clutch and brake packs. approx. 20 % hydraulic preloaded cup springs				

TECHDA-LA71005DE-180385

spiral bevel gears planetary reduction drive		
hand or foot operated automatically as soon as traction	has equalized	
independent of transmission, can be engaged and disengaged under load 540/1000 rpm, interchangeable hydraulically operated "wet" disk clutch hydraulically operated "wet" disk brake		
independent of transmission, can be engaged and disengaged under load electrical/hydraulic solenoid switch 1000 rpm hydraulically operated "wet" disk clutch hydraulically operated "wet" disk brake		
540 rpm shaft	1000 rpm shaft	
202 rpm 472 rpm 540 rpm 562 rpm 587 rpm	375 rpm 875 rpm 1000 rpm 1041 rpm 1087 rpm	
	TECHDA-LA91005BE-051185	
	hand or foot operated automatically as soon as traction independent of transmission, can and disengaged under load 540/1000 rpm, interchangeable hydraulically operated "wet" disk independent of transmission, can engaged and disengaged under load electrical/hydraulic solenoid switce 1000 rpm hydraulically operated "wet" disk is hydraulically o	

FRONT WHEEL DRIVE hydraulically controlled, shift under load - Type with "wet" disk clutch electrical/hydraulic solenoid switch preloaded cup springs - Drive disengagement hydraulic HYDROSTATIC STEERING without mechanical linkage between Type steering valve and front wheels **FOOT BRAKES** self-adjusting, hydraulically operated "wet" disk brakes **HANDBRAKE** Type mechanically operated band-type locking brake acting on the differential **HYDRAULIC SYSTEM** - Type closed, constant pressure system - System pressure when pump pistons idle 16000 kPa (160 bar; 2320 psi) 14000 kPa (140 bar; 2050 psi) - Operating pressure 8-piston pump with variable displacement - Hydraulic pump **ROCKSHAFT** - Regulation load control, load-and-depth control, float position via draft links FRONT HITCH controlled by selective control valve GROUND TRAVEL SPEEDS see Operator's Manual

TECHDA-LA91005CE-051185

FRONT AND REAR WHEELS

- Tires, tread widths, tire pressures

see Operator's Manual

DIMENSIONS AND WEIGHTS see Operator's Manual

CAPACITIES

Fuel tank 134.0 liters (35.4 U.S. gal.) - Auxiliary tank 52.0 liters (13.7 U.S. gal.)

Cooling system

- with ROLL-GARD 17.0 liters (4.5 U.S. gal.) 19 liters (5 U.S. gal.) 11.5 liters (3.0 U.S. gal.) Crankcase with filter

Transmission/hydraulic system (including

oil reservoir and oil cooler)

- Initial filling 55.0 liters (14.5 U.S. gal.) - Oil change 47.0 liters (12.4 U.S. gal.)

Front wheel drive

7.0 liters (1.85 U.S. gal.) - Front axle housing 0.75 liters (0.2 U.S. gal.)

TECHDA-LA91005DE-051185

STANDARD TORQUES FOR HARDWARE

Recommended torques in Nm and ft-lb for hose and pipeline connections

(A)	В		©	
	Nm	ft-lb	Nm	ft-lb
3/8-24 UNF 7/16-20 UNF 1/2-20 UNF 9/16-18 UNF 3/4-16 UNF 7/8-14 UNF 1-1/16-12 UNC 1-3/16-12 UNC 1-5/16-12 UNC 1-5/8-12 UNC 1-7/8-12 UNC	7,5 10 12 15 25 40 60 70 80 110	5,5 7 9 11 20 30 45 50 60 80	8 12 15 25 45 60 100 120 140 190 220	6 9 11 18 35 45 75 90 105 140 160

A-Thread size

B-With O-rings

C-With cone

L 110 192

L110192-LA71005AE-260385

Recommended torques in Nm and ft-lb for UNC and UNF cap screws

A		10.9 C		12.9 D
В	Nm	ft-lb	Nm	ft-lb
1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1 1-1/8 1-1/4	15 30 50 80 120 180 230 400 600 910 1240 1700	10 20 35 55 85 130 170 300 445 670 910 1250	20 40 70 110 170 240 320 580 930 1400 1980 2800	15 30 50 80 120 175 240 425 685 1030 1460 2060

L 110 193

A-Head marking (identifying strength) B-Thread O.D. (in.)

C-Tempered steel high strength bolts and cap screws D-Tempered steel extra high strength bolts and cap screws

NOTE: A variation of \pm 10% is permissible for all torques indicated in this chart.

Torque figures indicated above and in the specification sections of this manual are valid for nongreased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual.

L110193-LA71005AE-260385

Recommended torques in Nm and ft-lb for metric cap screws

A	8.8 🕝		10.9 D		12.9 E	
B	Nm	ft-lb	Nm	ft-lb	Nm	ft-lb
M5 M 6 M 8 M 10 M 12 M 14 M 16 M 20 M 24 M 30 M 36	7 10 30 50 100 160 240 480 820 1640 2850	5 8,5 20 35 75 120 175 355 605 1210 2110	9 15 40 80 140 210 350 650 1150 2250 4000	6,5 10 30 60 100 155 260 480 850 1660 2950	10 20 40 90 160 260 400 780 1350 2700 4700	8,5 15 30 70 120 190 300 575 995 1990 3465

L 110 194

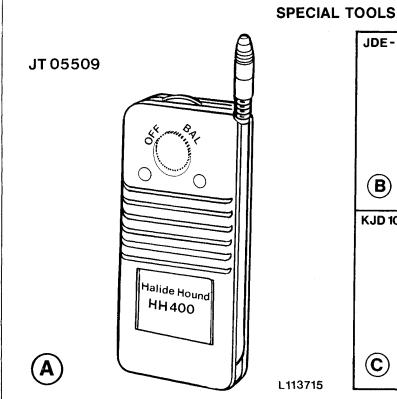
(identifying strength) B-Thread O.D. (mm) bolts and cap screws D-Tempered steel extra high strength bolts and cap screws

NOTE: A variation of \pm 10% is permissible for all torques indicated in this chart.

Torque figures indicated above and in the specification sections of this manual are valid for nongreased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual.

L110194-LA71005AE-190385

Group 10 PREDELIVERY, DELIVERY AND AFTER-SALE INSPECTIONS



JDE - 83

B)

KJD 10 138

L108 562

A-Checking refrigerant lines for leaks (with air conditioning system) B-Turning engine for checking valve clearance C-Checking specified torques of SOUND-GARD Body or ROLL-GARD mountings

L113715,L108562-LA91010AE-030386

SPECIFICATIONS

ENGINE SPEEDS

 - Slow idle speed
 880 to 920 rpm

 - Fast idle speed
 2510 to 2610 rpm

 - Rated engine speed
 2400 rpm

FAN BELT

Fan belt should have 19 mm (3/4 in.) flex with 90 N (20 lb) pull midway between crankshaft and alternator or water pump (use a spring scale).

COMPRESSOR BELT

Compressor belt should have 19 mm (3/4 in.) flex with 60 N (13 lb) pull midway between both pulleys.

BATTERIES

TOE-IN

BRAKES

-Lowering of a brake pedal within 1 minute at a

- Handbrake lever setting (third or fourth

INSPEK-LA91010AE-051185

Predelivery, Delivery and After-Sale Inspections

CAPACITIES

Engine crankcase

Front wheel drive

INSPEK-L71010BE-091184

TORQUES FOR HARDWARE

Steel disk to front wheel hub 300 Nm (220 ft-lb) Steel disk to front wheel rim 250 Nm (185 ft-lb) On tractors with flanged rear axle - Rear wheels to rear axle 400 Nm (300 ft-lb) - Steel disk to rear wheel rim 250 Nm (180 ft-lb) On tractors with rack-and-pinion axle - Wheel disk to rear wheel rim 230 Nm (170 ft-lb) - Pinion shaft - wheel sleeve to wheel hub 215 Nm (160 ft-lb) - Sleeve attaching screws to wheel hub 400 Nm (300 ft-lb)

RADER-LA98005AE-121185

SOUND-GARD Body or ROLL-GARD cab rubber mounting blocks

INSPEK-LA91010BE-051185

PREDELIVERY INSPECTION

The John Deere delivery receipt, when properly filled out and signed by the dealer and customer, verifies that the predelivery and delivery services were satisfactorily performed. When delivering this tractor, give the customer his copy of the delivery receipt and the operator's manual. Explain their purpose to him.

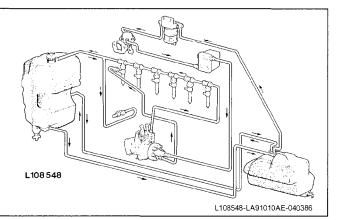
To promote complete customer satisfaction, a predelivery inspection including repair of possible shipping damage and giving the finishing touches to the tractor is of prime importance to the dealer. After the first 100 operating hours an inspection should be performed by the dealer to make sure that the tractor is in proper operating condition.

The predelivery and after-sales inspection check lists in the operator's manual will be completed by the dealer when the inspections are being performed. He will then forward them to the sales branch service department.

INSPEK-LA71010DE-091184

CHECKING FUEL LINES FOR LEAKS

Refer to Engine Component Technical Manual (CTM-4) in the event of malfunctions.



EXAMINING ENGINE FOR LEAKS

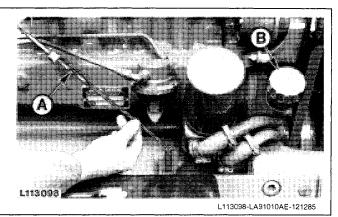
Refer to Engine Component Technical Manual (CTM-4) in the event of malfunctions.

INSPEK-LA91010EE-040386

CHECKING OIL LEVEL IN ENGINE **CRANKCASE**

If necessary, add oil to bring oil level to top mark on dipstick. Use JOHN DEERE Torq-Gard Supreme ® engine oil SAE 10W-20 or an equivalent oil (see Group 15).

> A-Oil dipstick B-Filler cap



CHECKING COOLANT LEVEL

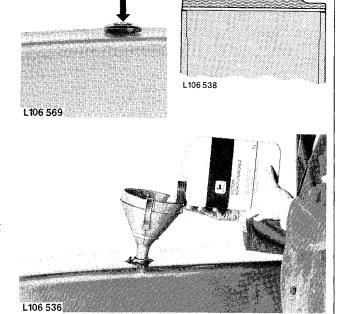
Coolant must reach up to marking plate in radiator.

JOHN DEERE engine cooling fluid is filled into the cooling system at the factory. It protects the engine against corrosion and against frost down to -36° C $(-35^{\circ} F)$.

IMPORTANT: Use only JOHN DEERE engine cooling fluid in the cooling system, independent of the season.

If no JOHN DEERE engine cooling fluid is available, use a mixture of 50% ethylene-glycol antifreeze/ anticorrosion inhibitor and 50% clear, soft water. This guarantees engine protection against corrosion and frost down to -36° C (-35° F).

Never use any cooling system sealing additives.



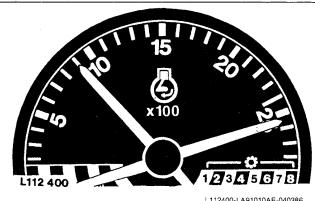
L106569.L106538.L106536-LA71010AE-091184

CHECKING ENGINE IDLE SPEEDS

Warm up engine to operating temperature and check speeds.

Slow idle speed: 880 to 920 rpm Fast idle speed: 2510 to 2610 rpm

See Engine Component Technical Manual (CTM-4) or Section 30, Group 15, for adjustment.

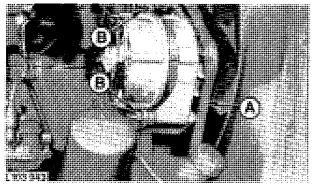


L112400-LA91010AE-040386

CHECKING V-BELT TENSION

Fan belt should have 19 mm (3/4 in.) flex with 90 N (20 lb) pull midway between crankshaft and alternator or water pump (use a spring scale).

A-Fan belt B-Securing nuts

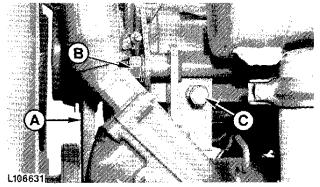


L103943-LA9101CAE-030386

CHECKING COMPRESSOR BELT TENSION (Tractors with Air Conditioning System)

Compressor belt should have 19 mm (3/4 in.) flex with 60 N (13 lb) pull midway between both pulleys.

A-V-belt B-Securing nut C-Adjusting screw

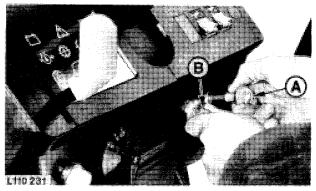


L106631-LA71010AE-091184

CHECKING FUNCTION OF ENGINE SHUT-OFF CABLE

Move hand throttle lever completely forward and idle engine for 1 to 2 minutes.

Completely pull out shut-off knob (A), making sure engine stops immediately. Switch off main switch (B).

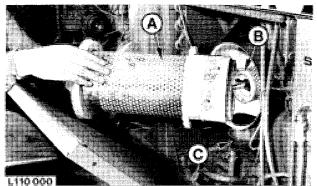


L110231-LA91010AE-051185

CHECKING AIR CLEANER AND SAFETY **ELEMENTS FOR CORRECT INSTALLATION**

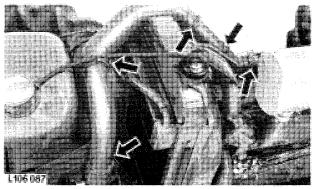
Make sure that dust unloading valve (C) (rubber cap) is installed on air cleaner.

> A-Air cleaner element **B-Safety element** C-Dust unloading valve



L110000-LA71010AE-091184

CHECKING HOSE CLAMPS OF AIR **INTAKE FOR TIGHTNESS**



INSTALLING EXHAUST STACK

Install weather flap with flap hinge at the rear (as seen in direction of forward travel).

Distance (A) between cap and stack end must be 2 mm (0.01 in.).



Thank you very much for your reading. Please Click Here. Then Get COMPLETE MANUAL. NO WAITING



NOTE:

If there is no response to click on the link above, please download the PDF document first and then click on it.

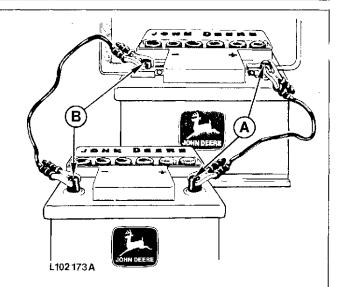
IMPORTANT NOTES

If the engine is to be run for a short time without battery (using a slave battery for starting), do not, under any circumstances, interrupt this circuit by switching off the main switch before stopping the engine by means of the fuel pump shut-off cable. An additional load (lights) must also be switched on. Do not run engine above 1000 rpm. Insulate battery end of disconnected started cable properly to avoid damage to alternator and regulator.

Do not connect ground strap of slave battery to SOUND-GARD Body or ROLL-GARD.

Observe proper polarity when connecting batteries and chargers. Improperly connected batteries ("+" and "-") results in immediate destruction of rectifier diodes.

A-Positive terminals B-Negative terminals



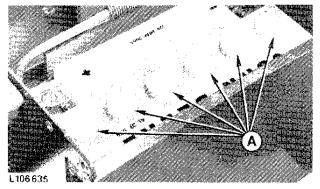
L102173A-LA91010AE-051185

CHECKING BATTERIES

Check battery terminals and cable ends and, if necessary, clean and coat them with petroleum jelly.

Check electrolyte level in each battery cell. If necessary, add distilled water to bring level above cell plates.

A-Filler caps



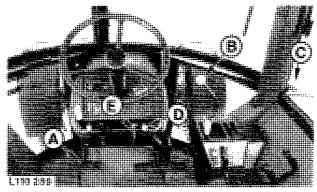
L106635-LA71010AE-091184

CHECKING NEUTRAL START SYSTEM

Depress clutch pedal (A).

Move gear shift lever (B) in neutral position. Move range shift lever (C) in any range position. Pull engine shut-off knob (D) out.

Turn starter switch (E) to start position. Starter should NOT crank. If it does, see Section 240, Group 10.



L110289-LA91010AE-051185

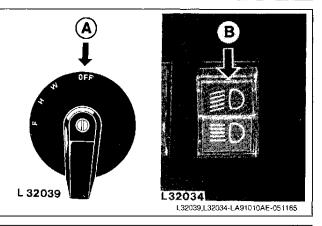
CHECKING LIGHTING SYSTEM

See Operator's Manual.

Check adjustment of headlights and adjust, when necessary.

See Section 240, Group 15, in the event of malfunctions.

> A-Light switch B-Dimmer switch

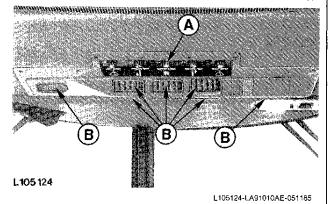


CHECKING FAN SWITCH (With SOUND-GARD Body)

Open air louvers (B).

Check function of three-stage cab ventilation and heater switch (A).

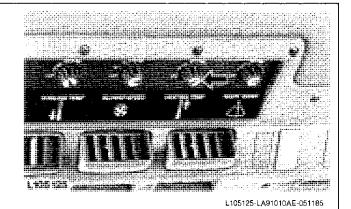
See Section 240, Group 10 in the event of malfunctions.



CHECKING HEATER CONTROL SWITCH (With SOUND-GARD Body)

With engine running at operating temperature, turn control switch to the right and wait until warm air enters cab through the air louvers.

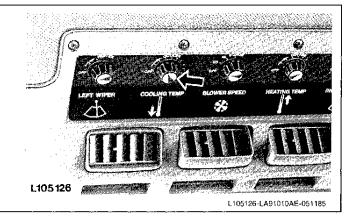
See Section 290, Group 10 in the event of malfunctions.



CHECKING THERMOSTAT SWITCH (With Air Conditioning System)

With fan switched on, turn infinitely adjustable switch to the right and wait until cool air enters cab through the air louvers.

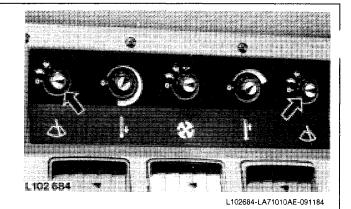
See Section 290, Group 05 in the event of malfunctions.



CHECKING FUNCTION OF WINDSHIELD WIPERS

Check both windshield wiper speeds by turning both two-speed switches.

See Section 40, Group 10, in the event of malfunctions



CHECKING CONTROLS AND INSTRUMENTS

See Operator's Manual.

See Section 40, Group 10, in the event of malfunctions.

INSPEK-LA71010FE-091184

CHECKING CAB INTERIOR LIGHTS

Turn switch (B) to position 1, lamp (A) glows continuously and, in position 2, it glows as long as cab door is open.

Lamp (C) illuminates transmission shift lever as soon as headlights are switched on.

See Section 240, Group 10, in the event of malfunctions.

