

Combines

1169SII H, 1169SII Hydro/4

(Serial No. 056350-)



Operator's Manual

Combines 1169SII H, 1169SII Hydro/4

(Serial No. 056350-)

OMZ92079 Issue L0 (Englisch)

John Deere Werke Zweibrücken
European Version
Printed in U.S.A.



General Information

TO THE CUSTOMER

When operating 1169SII H and 1169SII Hydro/4 combines, always use the basic operator's manual for 1166SII, 1166SII Hydro/4, 1174SII, 1177SII, 1177SII Hydro/4 and 1188SII Hydro/4 combines.

This supplementary operator's manual for 1169SII H and 1169SII Hydro/4 combines contains all deviations not included in the basic manual.

ALLGEOM-1169HAZE-011090

Contents

CONTROLS AND INSTRUMENTS	10-	SERVICE – TRANSMISSION AND BRAKES	50-
– Additional switches	10-1	– Foot brakes	50-1
– Additional indicator lights	10-2	– Brake linings	50-1
Operator's platform and cab	10-3	– Brake fluid reservoir	50-1
– Access ladder	10-3	Variable ground speed drive	50-2
DRIVING THE COMBINE	20-	Transmission, axles and wheels	50-4
Driving the combine	20-1	– Final drives	50-4
– Automatic leveling control cut-out switch	20-1	– Rear axle	50-4
– Operating foot brakes	20-2	– Front axle	50-4
Sidehill leveling system	20-3	– Wheel bolts	50-4
– Leveling control cut-out switch	20-3	SERVICE – FEEDER HOUSE	55-
– Manual leveling control switch	20-4	– Checking chain tension	55-1
– Tilt limit indicator light	20-4	– Adjusting chain tension	55-1
– Basic principles when operating sidehill combine	20-5	– Bottom feeder conveyor drum	55-1
– Daily preparations before driving sidehill combine	20-7	– Feeder paddle	55-2
Basic principles for field operation	20-8	– Replacing rubber paddles	55-2
FUEL, LUBRICANTS AND CAPACITIES	30-	– Paddle drive shear bolt	55-2
– Gear case oil	30-1	STORAGE	65-
– Hydraulic oil	30-2	– After the season	65-1
– Brake fluid	30-3	– Removing combine from storage	65-1
LUBRICATION AND PERIODIC SERVICES	35-	SPECIFICATIONS	70-1
– Lubricating points	35-1	INDEX	80-1
– Periodic services (additional)	35-4		
SERVICE – AIR CONDITIONING, ELECTRICAL AND HYDRAULIC SYSTEMS	45-		
Air conditioning system	45-1		
– Compressor	45-1		
– Condenser housing	45-1		
– Refrigerant level	45-2		
Electrical system	45-3		
– Electro-mechanical level sensing control box	45-3		
Hydraulic system	45-4		
– Hydraulic pump drive	45-4		

Identification Views

1169SII H, LEFT-HAND VIEW



Z117331

Z117331-1169HAZE-011090

1169SII HYDRO/4, LEFT-HAND VIEW



Z117332

Z117332-1169HAZE-011090

Controls and Instruments

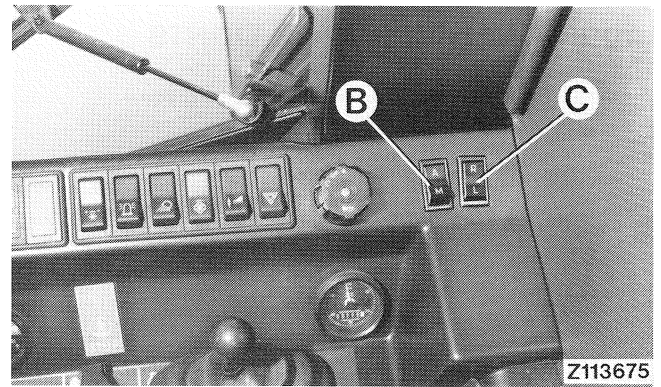
ADDITIONAL SWITCHES

Manual Leveling Control Switch (C)

R-Manual right-hand tilt
L-Manual left-hand tilt

Leveling Control Cut-Out Switch (B)

A-Automatic leveling system on –
field travel
M-Automatic leveling system off
(manual) – road travel

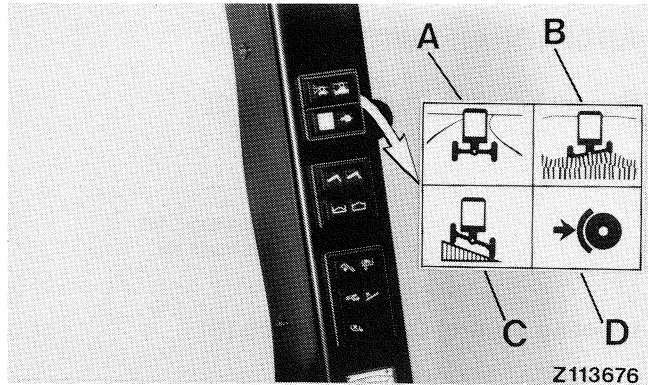


Z113675-1169HAZE-010289

ADDITIONAL INDICATOR LIGHTS

- A-Indicator light – green – road travel
- B-Indicator light – red – field travel
- C-Tilt limit indicator light – orange
- D-Indicator light – red – glows when brake booster is defective

NOTE: Similar indicator lights are located on the steering column on combines not equipped with an operator's cab.



Z113676-1169HAZE-010289

Operator's Platform and Cab

ACCESS LADDER TO OPERATOR'S PLATFORM

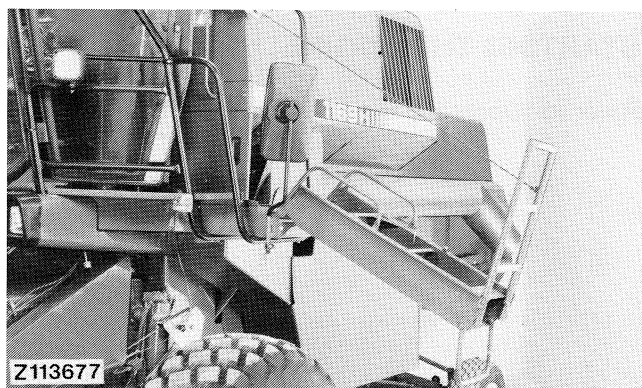
With the ladder lowered, operator's platform is conveniently accessible.

Lowering the Ladder



CAUTION: Always lower the ladder slowly by means of a rope. Before lowering the ladder, make sure that no one is standing where he might be struck by the ladder.

NOTE: Lower section of ladder is pivoted on left-hand cutting platform synchronization cable by means of a bowden cable. When operating on slopes, the lower ladder section is raised.

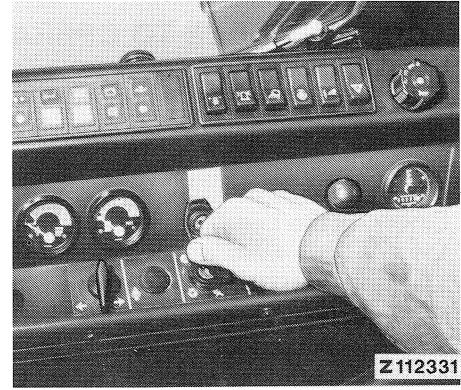


Z113677-1169HAZE-010289

Driving the Combine

STARTING THE ENGINE

Refer to "Operating the Engine".

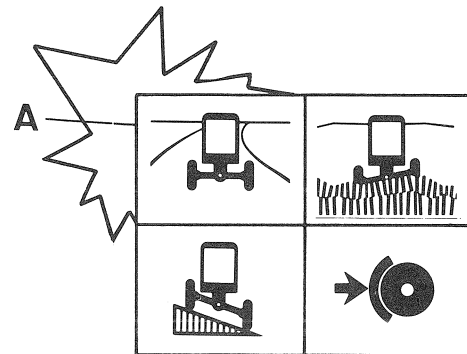


Z113603,Z112331-1196HAZE-010289

AUTOMATIC LEVELING CONTROL CUT-OUT SWITCH IN POSITION "M"

IMPORTANT: This applies before all road travel, whether it be on public roads, private roads or around the farmyard.

Green indicator light "A" will glow with switch in position "M".



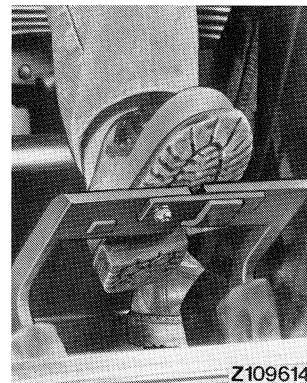
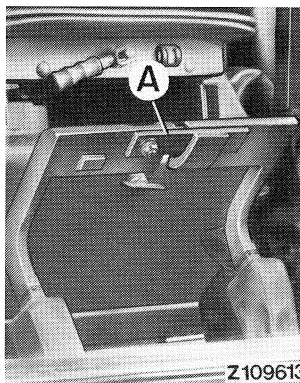
Z 113 679

Z113678,Z113679-1169HAZE-010289

OPERATING FOOT BRAKES

During Road Travel

IMPORTANT: Couple brake pedals by means of pedal coupler (A).



Z109613, Z109614-1065AZE-100186

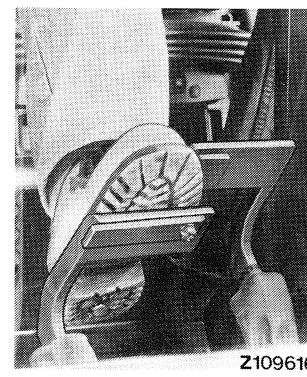
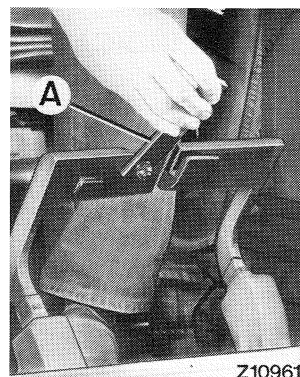
During Field Operation

When negotiating sharp turns, use individual brakes to assist steering. For this purpose, swing pedal coupler (A) upward.



CAUTION: Never operate brake pedals singly when operating on slopes.

IMPORTANT: When stopping combine, always operate both brake pedals simultaneously.



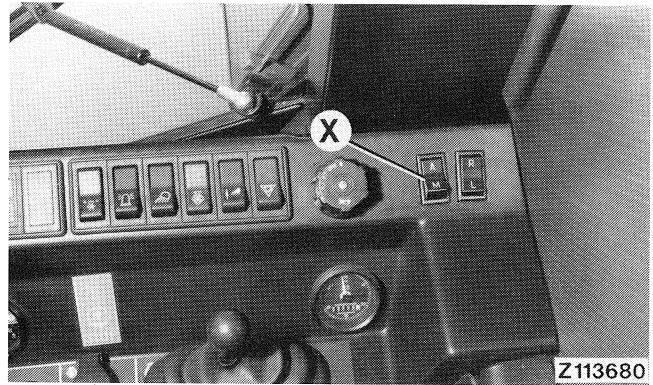
Z109615, Z109616-1068HAZE-100386

Sidehill Leveling System

FUNCTION OF LEVELING CONTROL CUT-OUT SWITCH

With the leveling control cut-out switch (X) the leveling system is switched to “automatic” or “manual” position:

Position “A” – Automatic leveling control
Position “M” – Manual leveling control

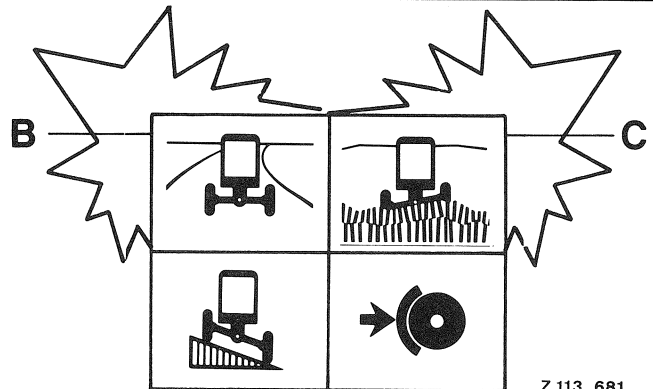


Z113680-1169HAZE-010289

LEVELING CONTROL SWITCH INDICATOR LIGHTS

Position “A” – Indicator light (C) glows red, field travel

Position “B” – Indicator light (B) glows green, road travel

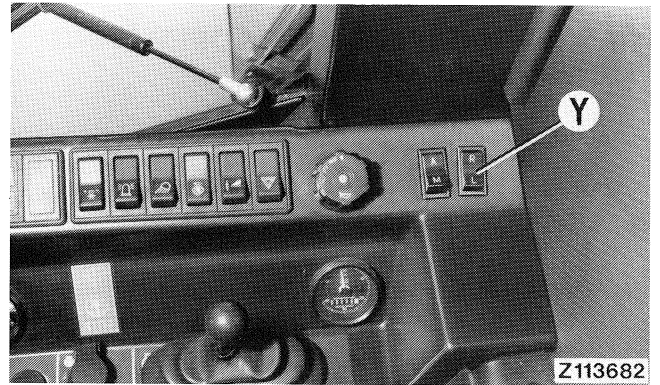


Z113681-1169HAZE-010289

FUNCTION OF MANUAL LEVELING CONTROL SWITCH

Pressing manual leveling control switch (Y) in position "R", combine tilts manually to the right and pressing in position "L" to the left.

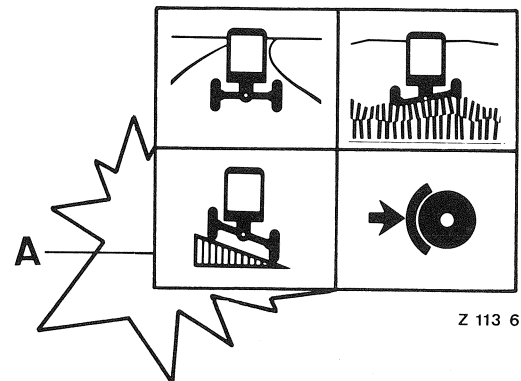
As soon as switch (Y) is released, it returns to neutral position. When leveling control cut-out switch is in automatic leveling position, combine returns to its original position.



Z113682-1169HAZE-010289

TILT LIMIT INDICATOR LIGHT

As soon as the tilt limit is reached, orange indicator light (A) will glow.



Z113683-1169HAZE-010289

BASIC PRINCIPLES WHEN OPERATING THE SIDEHILL COMBINE

The sidehill combine is intended for slopes up to 20%.



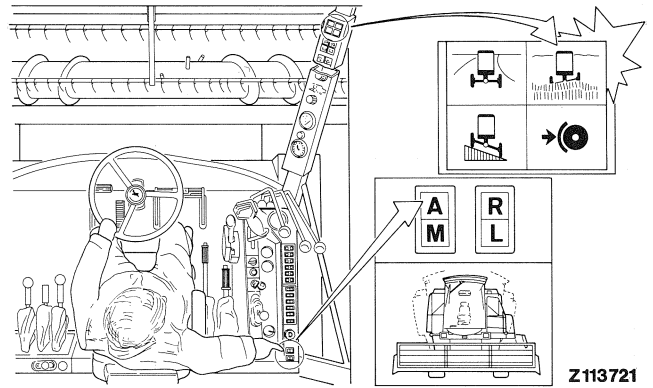
CAUTION: Never attempt to operate the sidehill combine on slopes above 30%.

IMPORTANT: The following instructions regarding indicator lights refer to a sidehill combine equipped with an operator's cab.
On combines not equipped with a cab, similar indicator lights are located on the steering column.

BETR-1169HAZE-010289

BASIC PRINCIPLES WHEN OPERATING THE SIDEHILL COMBINE (CONTD.)

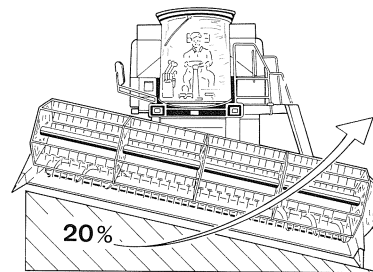
Before operating combine on slopes, make sure leveling control cut-out switch is in automatic leveling position – red light glows (field travel).



Z113721



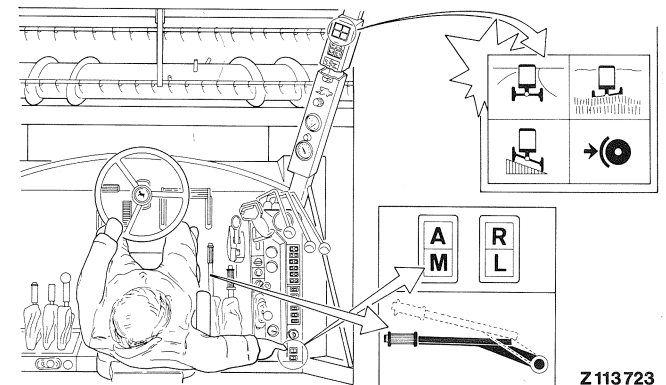
CAUTION: Particular care must be taken when turning the combine on slopes. Never turn combine faster than the leveling system can keep combine in level position. Always turn uphill! When the orange indicator light glows, take extreme care.



Z113722



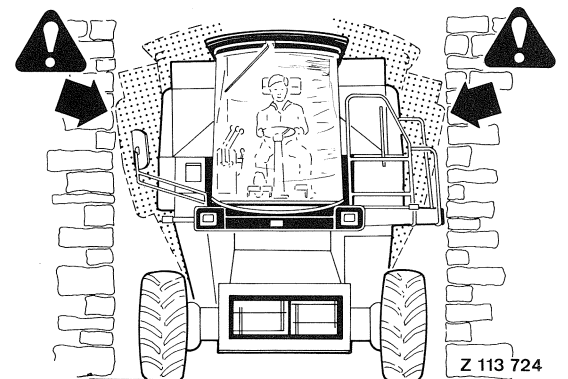
CAUTION: Before traveling on public roads, make sure leveling control cut-out switch is in manual position – green light glows (road travel).



Z113723

IMPORTANT: Before pressing manual leveling control switch, make sure that transmission is in neutral ("0") position and parking brake lever released.

IMPORTANT: When parking the combine, do not park too close to other machines or walls of storage building. This is important as combine can tilt due to internal loss of oil pressure when parked for some time. This may cause damage to combine and adjacent machines or walls.

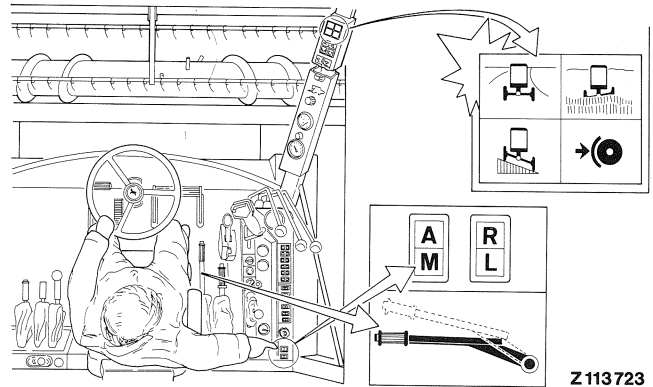


Z 113 724

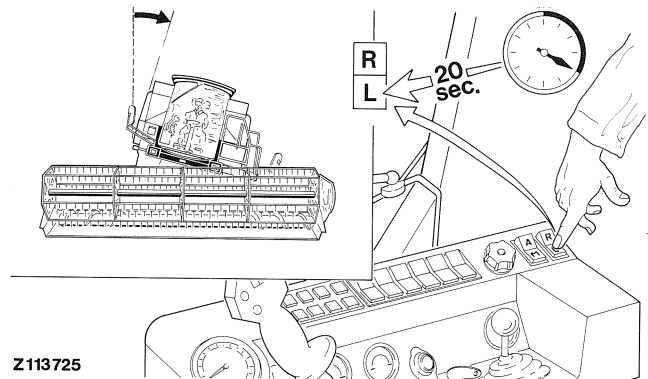
DAILY PREPARATIONS BEFORE DRIVING THE SIDEHILL COMBINE

Before driving the sidehill combine, certain functional control safety tests have to be carried out:

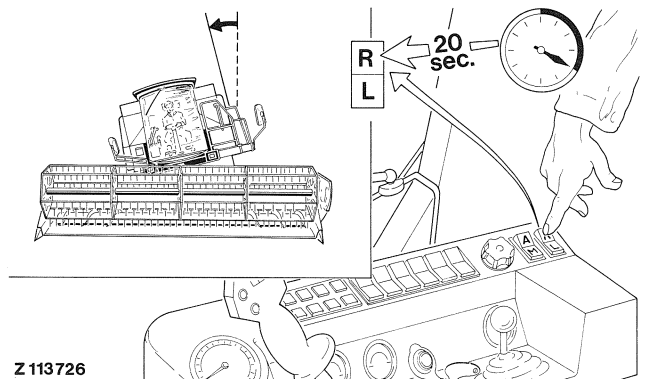
- Move leveling control cut-out switch to “M” position. This applies before all road travel, whether it be on public roads, private roads or around the farmyard. The indicator light for road travel should glow with switch in this position.
- Release parking brake.
- Gear shift lever in neutral position



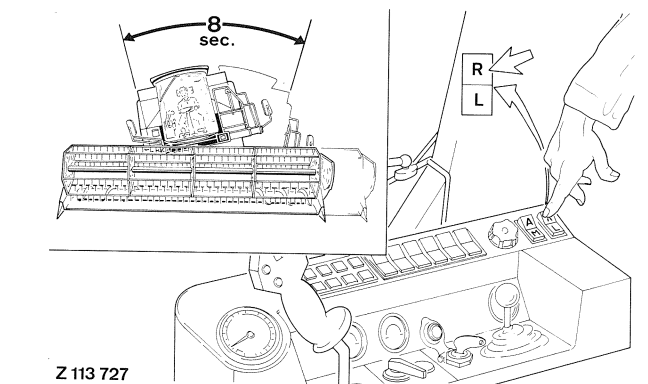
TEST 1: Depress manual leveling control switch in position “L” for approx. 20 seconds. Combine will tilt to the left.



TEST 2: Depress manual leveling control switch in position “R” for approx. 20 seconds. Combine will tilt to the right.

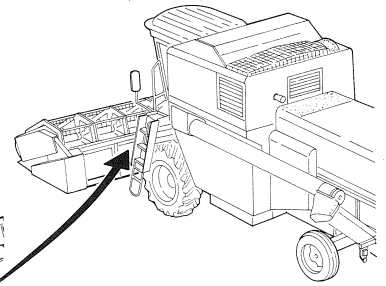
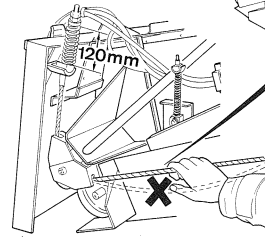


TEST 3: By operating switch in position “L”, bring combine from maximum “right tilt” to maximum “left tilt”. The time required to do this should be 8 seconds.



DAILY PREPARATIONS BEFORE DRIVING THE SIDEHILL COMBINE (CONTD.)

- TEST 4: Check as to whether wire ropes to synchro-nize cutting platform are tensioned correctly (see operator's manual "Cutting Platforms with Quick Couplers").



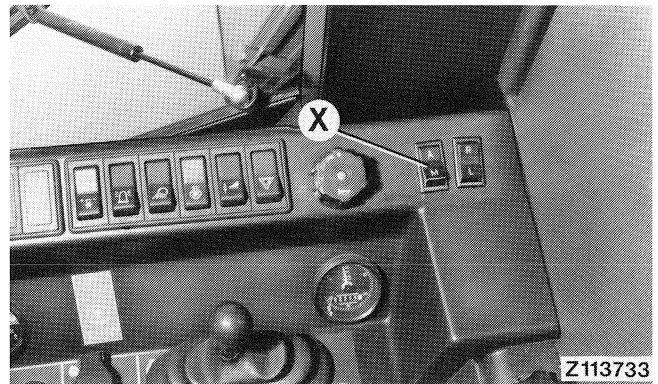
Z113 728

Z113728-1169HAZE-010289

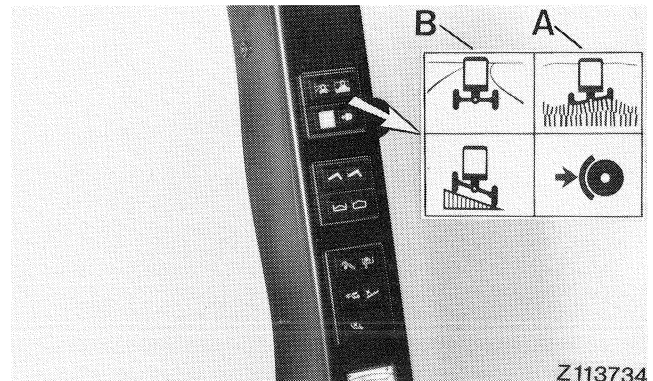
BASIC PRINCIPLES FOR FIELD OPERATION

- When traveling on public roads and level fields, leveling control cut-out switch (X) must be in manual "M" position (green indicator light glows).
- Before operating on slopes, push leveling control cut-out switch to position "A" (red indicator light glows).

A–Red indicator light
(field travel)
B–Green indicator light
(road travel)



Z113733



Z113734

Z113733,Z113734-1169HAZE-010289

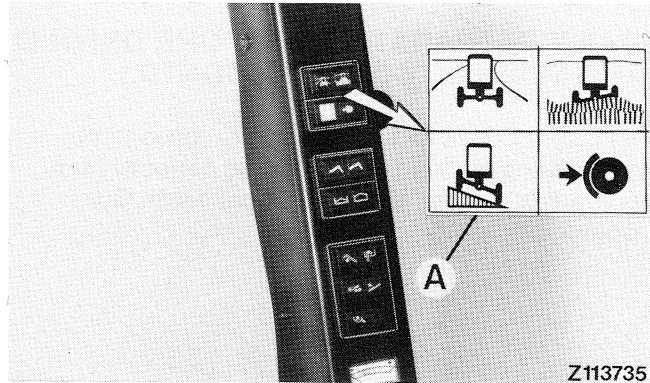
WHEN OPERATING ON SLOPES



CAUTION: The leveling limit is reached when the orange indicator light glows. Take care when this occurs.

NOTE: Should the orange indicator light not glow, consult your JOHN DEERE dealer.

A—Leveling limit indicator light

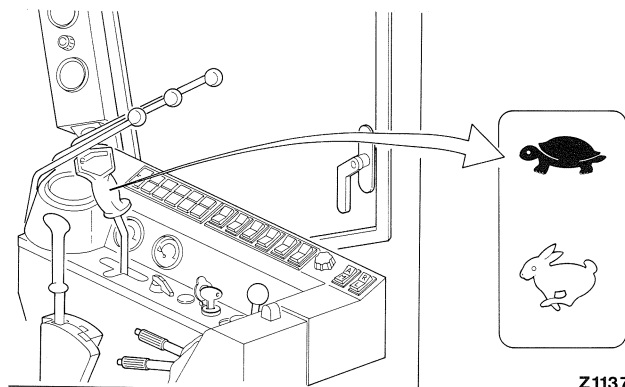


Z113735

Z113735-1169HAZE-010289

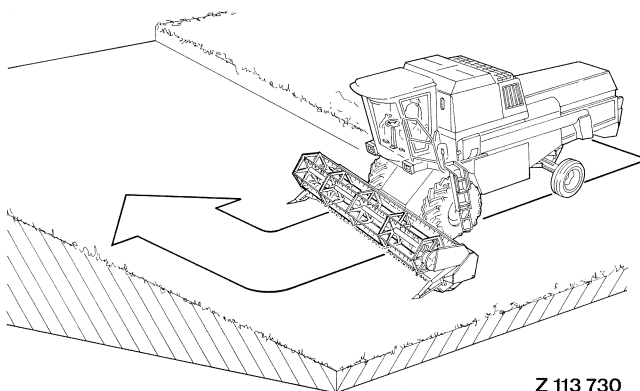
TURNING ON SLOPES

- Before each turn on a slope set variable drive to slowest speed. Drive slowly!
- Never turn faster than the leveling action to bring combine to its horizontal position.
- Using the foot brakes when turning delays the steering action. If necessary, it is better to use the parking brake.



Z113729

- Be careful when turning. Always turn uphill!



Z 113 730

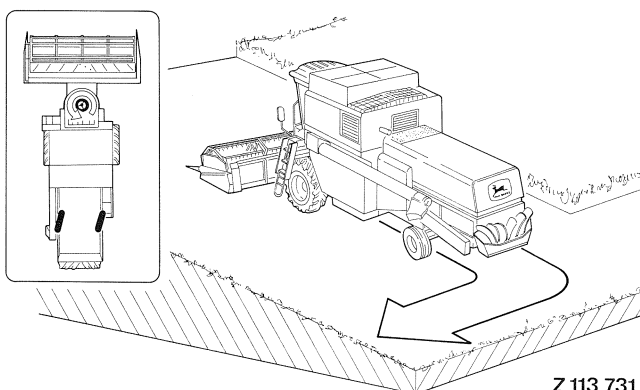
- Stop the combine when you are facing uphill. Shift into reverse gear. Leveling system will have leveled combine.

- Turn the steering wheel.

- Reverse slowly until combine is parallel with slope.



CAUTION: Leveling system must level combine.

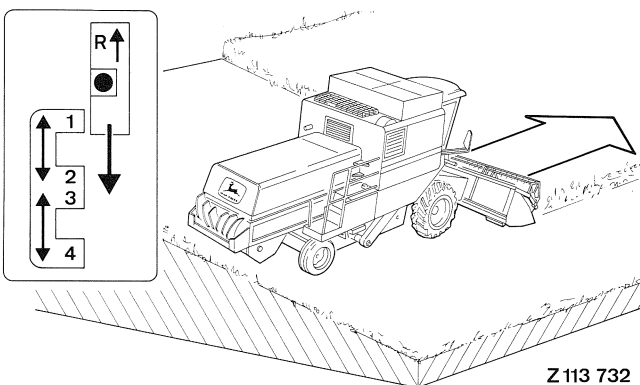


Z 113 731

- Shift into a forward gear. Adjust variable ground speed drive to desired speed.



CAUTION: Never attempt to operate sidehill combine on slopes above 30%.



Z 113 732

Fuel, Lubricants and Capacities

GEAR CASE OIL

Use oil viscosity based on the expected air temperature range during the period between oil changes.

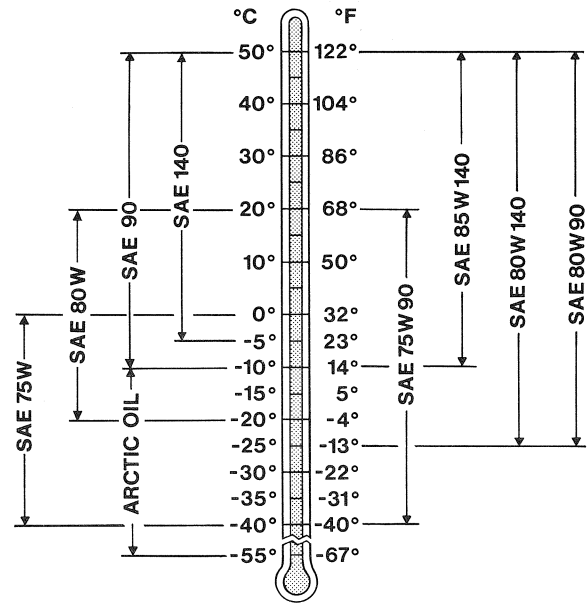
The following oils are preferred:

JOHN DEERE EP OIL 85W-140
JOHN DEERE GL-5 LUBRICANT

Other oils may be used if they meet one or more of the following:

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

For temperatures below -40°C (-40°F) oils meeting Military Specification MIL-L-46167A should be used.



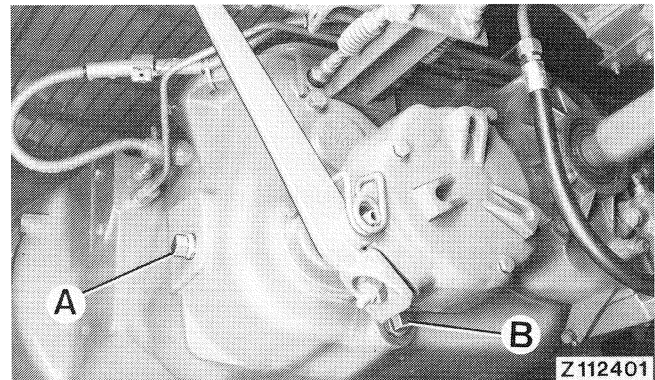
ES 118 877

ES118877-ESPD AE-141288

OIL CAPACITY – TRANSMISSION

Capacity: 6.6 liters (1.75 U.S.gal.)

A–Oil filler and level plug
B–Oil drain plug

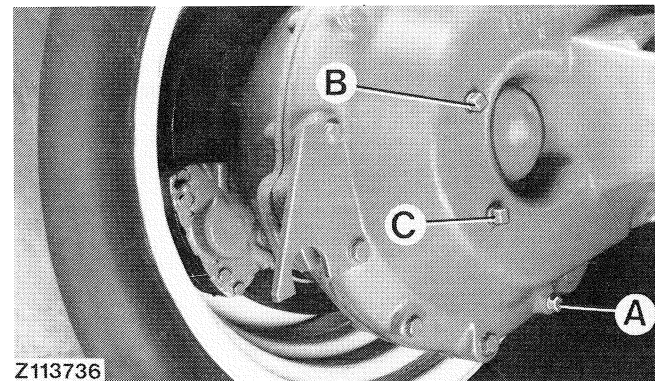


Z112401-1188AZEHAZE-000987

OIL CAPACITY – FINAL DRIVES

Capacity (each): 5.6 liters (1.5 U.S.gal.)

A–Drain plug
B–Filler plug
C–Level plug



Z113736-1169HAZE-010289

HYDRAULIC OIL

Use oil viscosity based on the expected air temperature range during the period between oil changes.

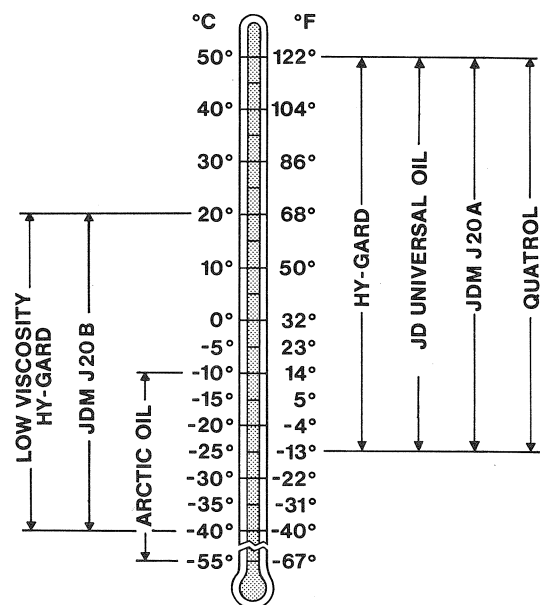
The following oils are preferred:

JOHN DEERE HY-GARD Transmission/Hydraulic Oil
JOHN DEERE UNIVERSAL Oil

Other oils may be used if they meet one or more of the following:

- JOHN DEERE Specification JDM J20A
- JOHN DEERE Specification JDM J20B
- QUATROL®

For temperatures below -40°C (-40°F) oils meeting Military Specification MIL-L-46167A should be used.



ES 118 876

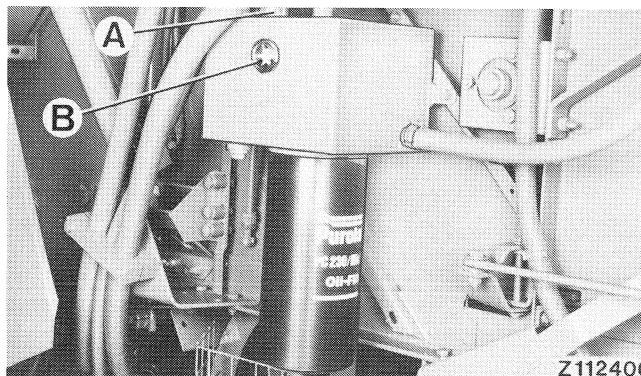
ES118876-1169HAZE-010289

OIL CAPACITY – HYDROSTATIC GROUND SPEED DRIVE

Complete system – 30 liters (7.9 U.S.gal.)

Oil reservoir with filter – 8 liters (2.1 U.S.gal.)

A–Reservoir cap
B–Sight glass



Z112406

Z112406-1169HAZE-011090

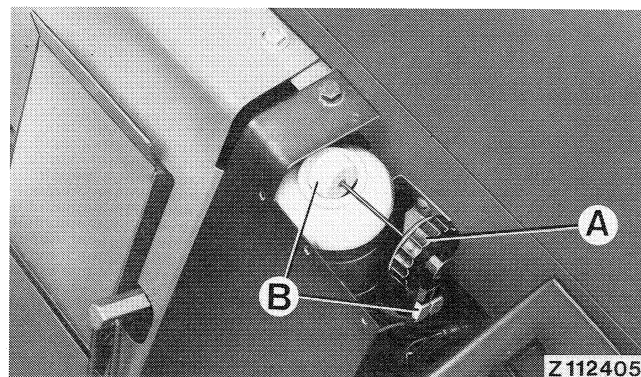
OIL CAPACITY – HYDRAULIC CLUTCH OPERATING SYSTEM

Complete system – 1.0 liters (0.26 U.S.gal.)

Reservoir – 0.5 liters (0.13 U.S.gal.)

A–Reservoir cap
B–Electrical oil level indicator

IMPORTANT: Do not use other hydraulic oils than those specified above.



Z112405

Z112405-1169HAZE-010290

BRAKE FLUID FOR DISK BRAKES

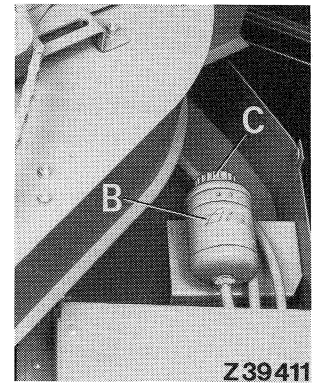
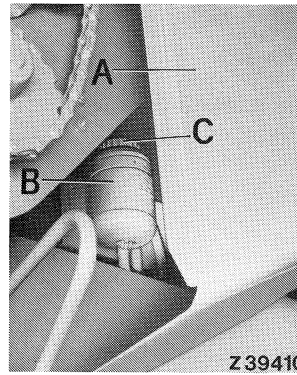
Always use brake fluid according to SAE J 1703 (DOT 4).

System capacity: 1.0 liter (0.26 U.S.gal.)

Reservoir capacity: 0.5 liter (0.13 U.S.gal.)

- A-Side guard (remove)**
- B-Brake fluid reservoir**
- C-Reservoir cap with float**

IMPORTANT: Use only brake fluid meeting the above specifications.

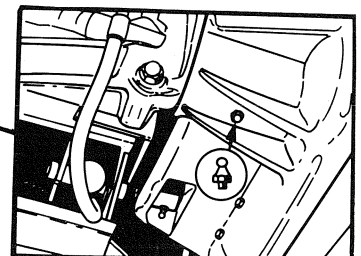
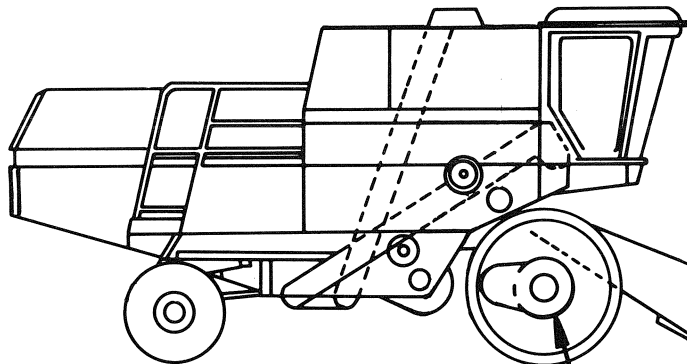
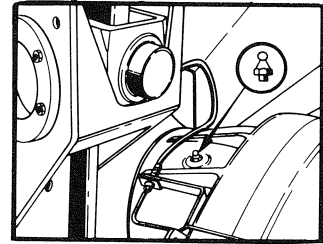
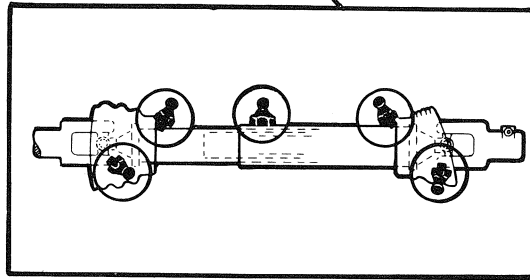
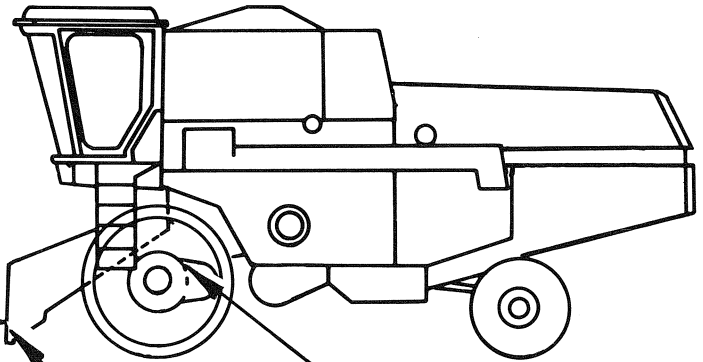
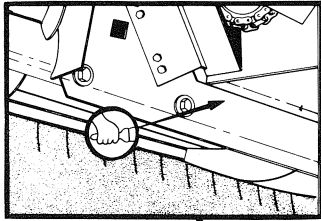


Z39410, Z39411-1068HAZE-000386

Lubricating Points



=10

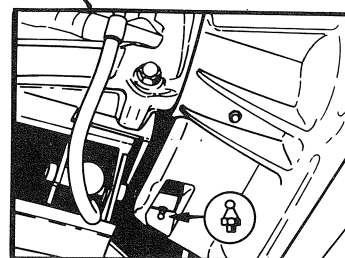
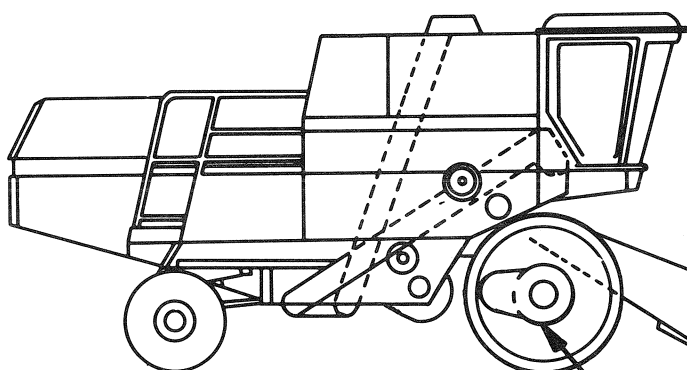
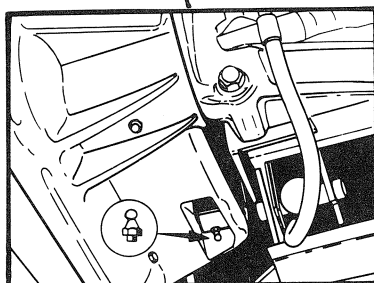
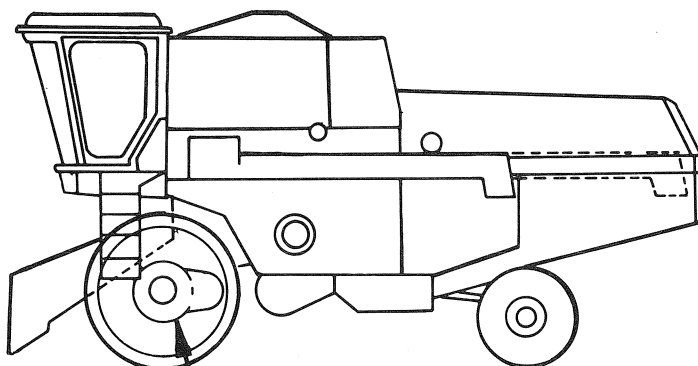


Z113737

Z113737-1169HAZE-010289



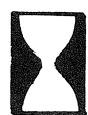
=50

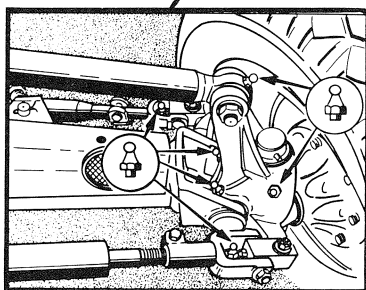
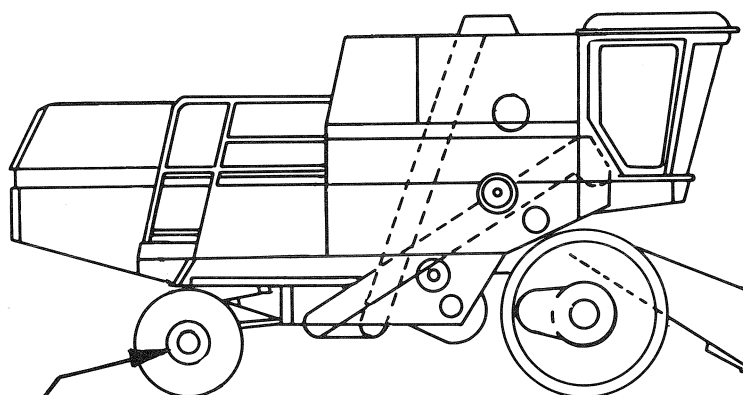
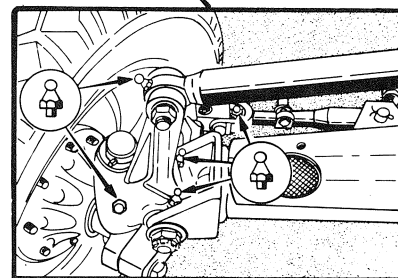
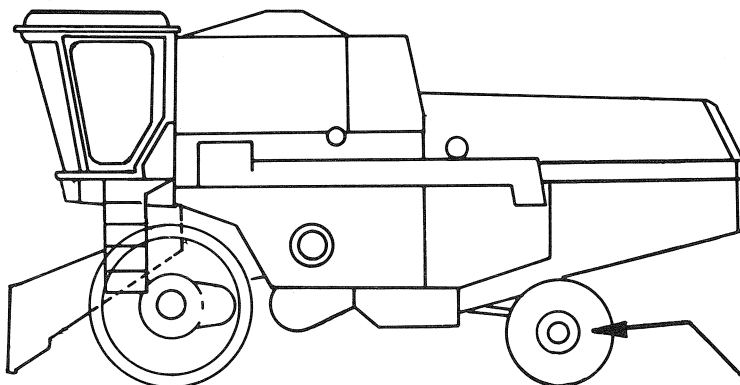


Z113738

Z113738-1169HAZE-010289



=100



Z113739

Z113739-1169HAZE-010289

Periodic Services

ADDITIONAL PERIODIC SERVICES

1. FRONT WHEEL ATTACHING BOLTS

Tighten to 550 Nm (398 ft-lb) torque.
– After the first few hours of operation
– Every 10 operating hours

2. OIL FOR CLUTCH OPERATION

Check reservoir oil level.
– Every 200 operating hours

3. BRAKE FLUID

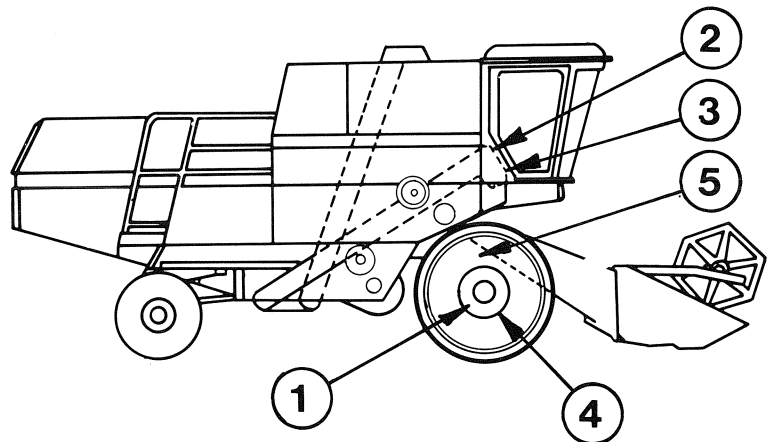
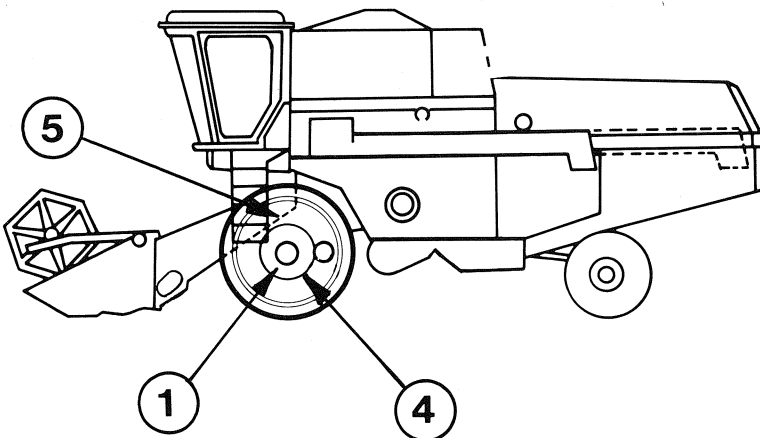
Check brake fluid level in reservoir.
– Every 200 operating hours

4. FOOT BRAKE

Check foot brake adjustment and condition of linings.
– Every 200 operating hours

5. HYDRAULIC LEVELING CYLINDERS

– Retract cylinders before storing combine (see “Storage”).



Z 110 248

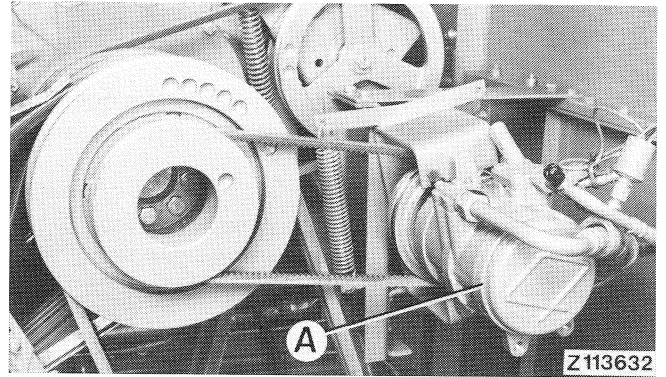
Z110248-1169HAZE-010289

Service – Air Conditioning – 1169SII Hydro/4

COMPRESSOR – LOCATION AND DRIVE

The compressor (A) is mounted on a pivot bearing at rear cover of engine compartment.

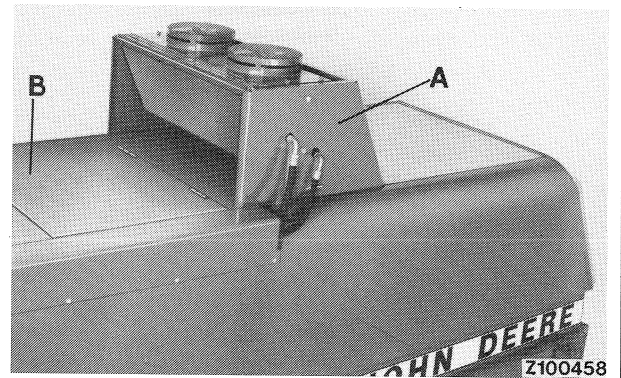
Drive belt is tensioned by means of a spring.



Z113632-1169HAZE-010290

CONDENSER HOUSING

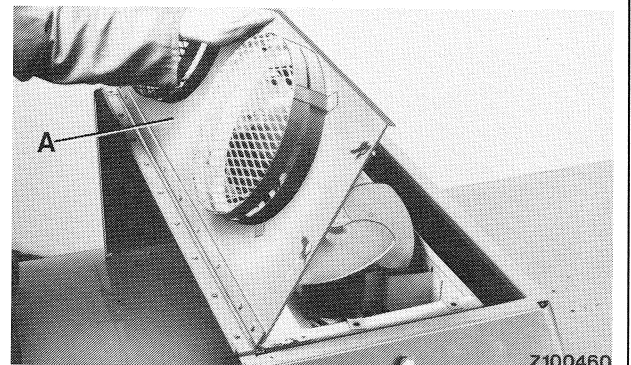
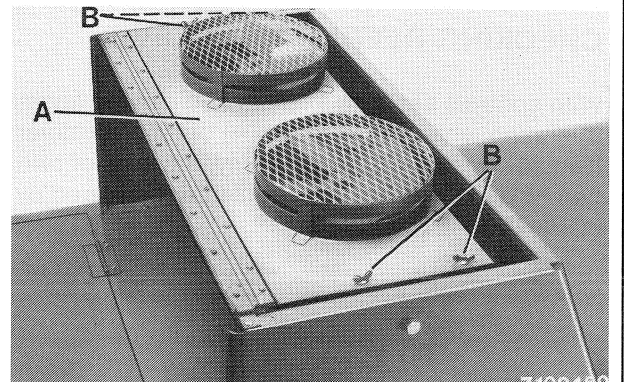
Housing (A) with condenser and electric fan is located behind the access door (B) of the straw walker hood.



Z100458-1055AZE-150883

HOUSING COVER – ACCESS TO CONDENSER

Lift housing cover (A) upward after loosening four wing nuts (B).



Z100459,Z100460-1055AZE-150883

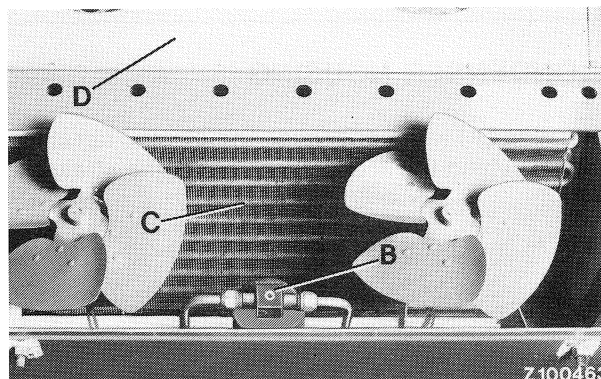
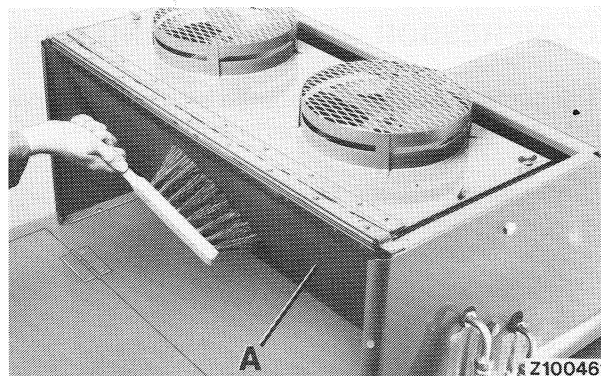
CONDENSER AIR INTAKE DOME

A fine-mesh screen (A) covers the air intake opening. Keep screen clean of chaff and leaves, if necessary, using a handbrush.

NOTE: In case of heavy dirt accumulation clean condenser (C) with a water jet directed from inside to outside and then dry with compressed air.

A–Screen
B–Receiver-dryer
C–Condenser
D–Housing cover

Location of Condenser (C) with Housing Cover (D) Open.

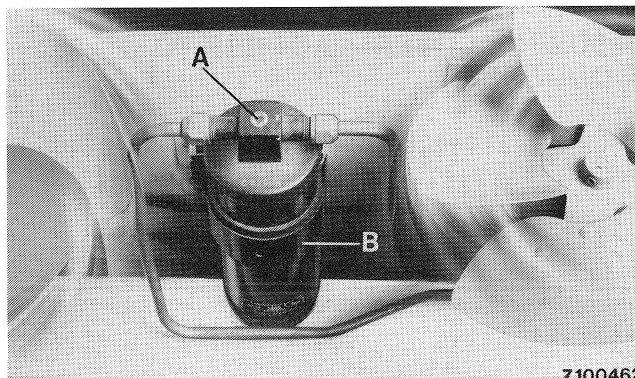


Z100461, Z100463-1055AZE-150883

CHECKING REFRIGERANT LEVEL

With controls set for maximum cooling and engine operating, check sight glass (A) of receiver-dryer (B). If liquid appears cloudy or foamy, the level of refrigerant is low and system should be recharged by your JOHN DEERE dealer.

Check refrigerant level periodically.



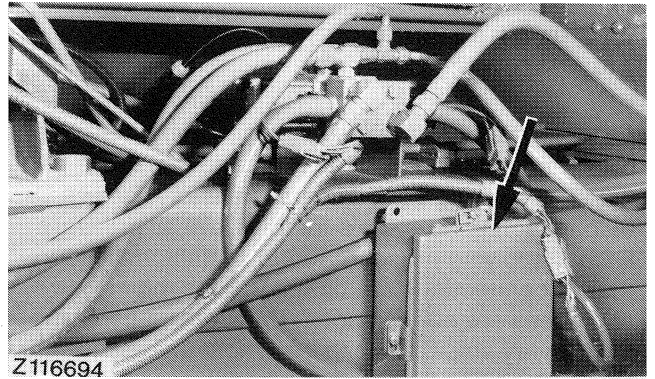
Z100462-1055AZE-000883

Service – Electrical System

ELECTRO-MECHANICAL LEVEL SENSING CONTROL BOX

If the separator consistently leans to one side, the control box is incorrectly adjusted. Consult your JOHN DEERE dealer.

IMPORTANT: Never steam clean or spray water on leveling control box. Moisture in the control box may cause malfunctions.



Z116694-1169HAZE-000289

Service – Hydraulic System

AVOID LEAKING PRESSURE LINES AND HOSES

Escaping fluid (hydraulic oil, Diesel fuel) under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, make sure that all connections are tight and lines, pipes and hoses are not damaged. Pressure oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injured by escaping pressure oil, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



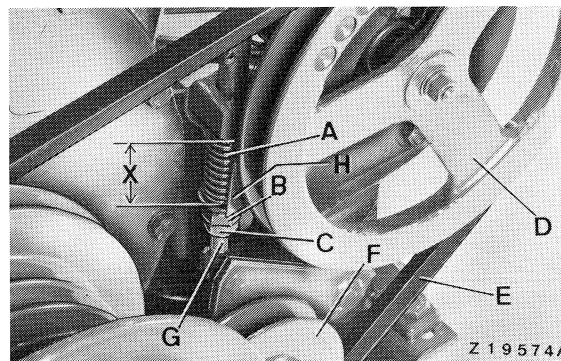
X9811-1169HAZE-010290

HYDRAULIC PUMP DRIVE

Tension spring (A) is adjusted correctly when measurement (X) is 46 mm (1-13/16 in.). This is the height of spacer (H). To adjust spring, loosen lock nut (C) and tension spring to specified length by means of adjusting nut (B).

A-Tension spring
B-Adjusting nut
C-Lock nut
D-Pulley

E-V-belt
F-Spring-loaded tensioner
G-Adjusting spindle
H-Spacer
X-46 mm (1-13/16 in.)



Z19574A-1169HAZE-010290

Service – Transmission and Brakes

ADJUSTING AND BLEEDING FOOT BRAKES

Always contact your JOHN DEERE dealer regarding bleeding or adjusting the foot brakes.

Never attempt to carry out this work yourself!

WKUPL-1068HAZE-100386

CHECKING BRAKE LININGS

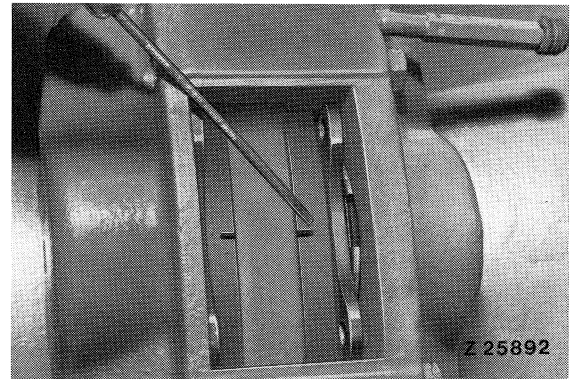
After every 200 hours of operation or at the end of the harvesting season (whichever occurs first), check brake linings.

To do this, safely jack up and support front axle and remove front wheels.

Using a screwdriver, remove cover on brake caliper.

Depth of groove in brake linings shows amount of wear.

When groove depth is 2 mm (0.08 in.) or less, have brake linings replaced by your JOHN DEERE dealer.

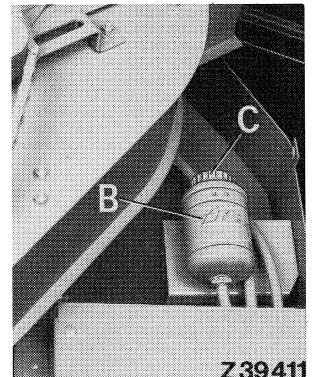
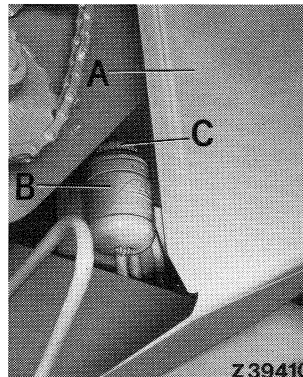


Z25892-1068HAZE-100386

BRAKE FLUID RESERVOIR

If brake fluid is lost due to leakage, see your JOHN DEERE dealer. Use specified brake fluid only. A float warning device checks oil level in reservoir.

- A—Remove side guard
- B—Brake fluid reservoir
- C—Cap with float

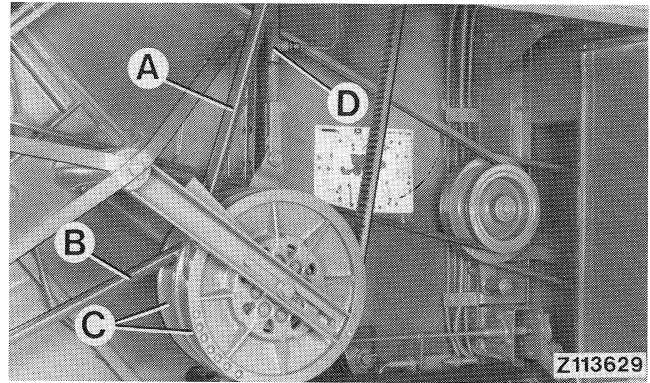


Z39410,Z39411-1068HBZE-000386

VARIABLE GROUND SPEED DRIVE – GENERAL INFORMATION

The variable ground speed drive allows the ground travel speed to be infinitely varied in each gear.

- A–Drive belt from engine to variable drive
- B–Drive belt to transmission
- C–Variable sheave halves
- D–Hydraulic cylinder

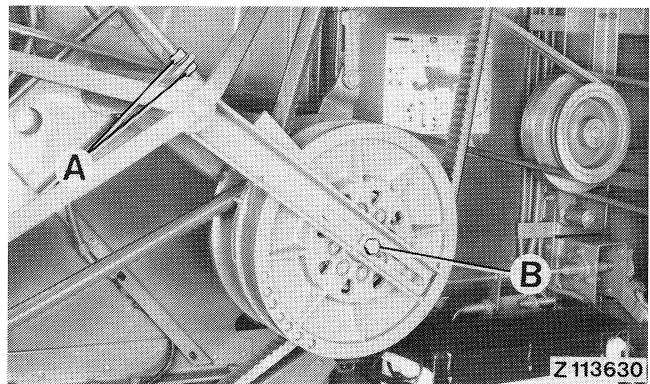


Z113629-1169HAZE-010289

ADJUSTING VARIABLE DRIVE BELTS

Check belt tension every 10 operating hours (until the first 50 operating hours have been completed). If necessary, adjust as follows:

- Loosen bearing bolt (B).
- Loosen hex. nuts (A) and turn both nuts clockwise until desired belt tension is obtained.
- Retighten bearing bolt (B) and nuts (A).



Z113630-1169HAZE-010289

VARIABLE GROUND SPEED DRIVE – BASIC ADJUSTMENT

IMPORTANT: When adjusting drive belts, the following two requirements must be met:

1. With hydraulic cylinder fully retracted, distance (Y) should be 1 to 2.5 mm (0.04 to 0.1 in.).
2. With hydraulic cylinder fully extended, distance (X) should be 1 to 2.5 mm (0.04 to 0.1 in.).

To meet the above requirements, a spindle adjusting length of at least 15 mm (0.6 in.) must be maintained.

Correct distances (X) and (Y) as follows:

Increasing Distance (X)

Loosen hex. nut (C) and turn spindle (B) into threaded clamp (D), reducing total length of hydraulic cylinder (A).

Reducing Distance (X)

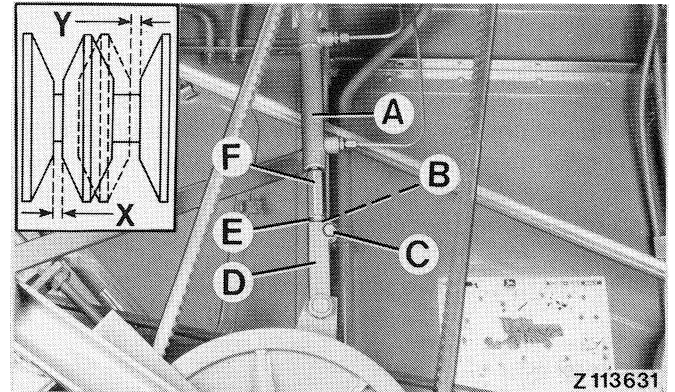
Loosen hex. nut (C) and turn spindle (B) out of threaded clamp (D). Make sure that a minimum spindle length of 15 mm (0.6 in.) is maintained. This increases total length of hydraulic cylinder (A).

Increasing Distance (Y)

Loosen hex. nut (E) and turn stop (F) on spindle (B) to the left, reducing the stroke.

Reducing Distance (Y)

Loosen hex. nut (E) and turn stop (F) on spindle (B) to the right, increasing the stroke.



- A-Hydraulic cylinder
- B-Threaded spindle
- C-Hex. nut
- D-Threaded clamp
- E-Hex. nut
- F-Stop
- X-Minimum clearance for inner sheave halves
- Y-Minimum clearance for outer sheave halves

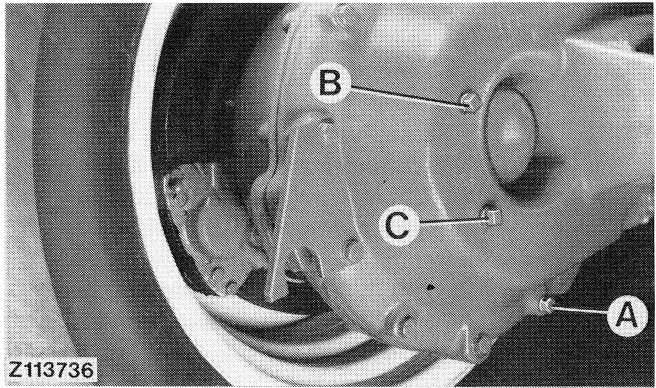
FINAL DRIVES

Top up with oil after the first 100 hours of operation. Thereafter change oil after every 800 hours of operation or before each harvesting season, whichever occurs first. Check oil level after every 200 hours of operation and top up when necessary.

IMPORTANT: Always use specified oil.

A—Oil drain plug
B—Oil filler plug

C—Oil level plug



Z113736-1169HAZE-010289

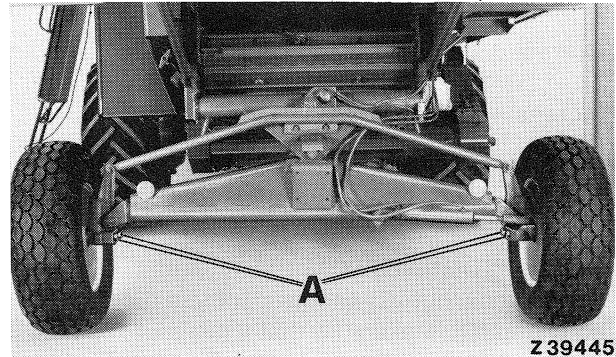
REAR AXLE

Steering Arm Attaching Cap Screws

After the first 50 hours of operation, tighten steering arm cap screws (A) to 180 Nm (130 ft-lb) torque.

Toe-In

Correct toe-in of steering wheels must be maintained at all times, otherwise combine will be difficult to steer and tires will be subject to excessive wear. Should this occur consult your JOHN DEERE dealer.

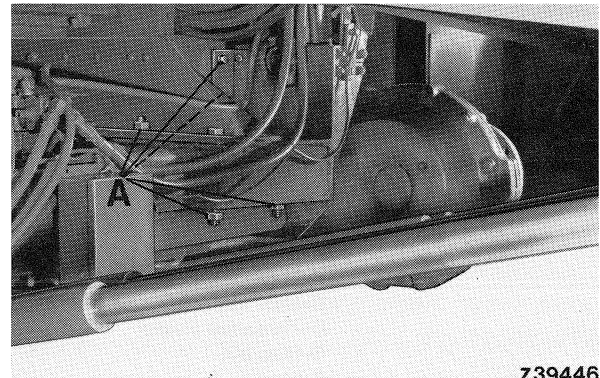


Z39445-1068HAZE-000386

FRONT AXLE

After the first 10 to 20 hours of operation:

– Tighten hex. nuts (A) of attaching cap screws to 330 Nm (240 ft-lb) torque.



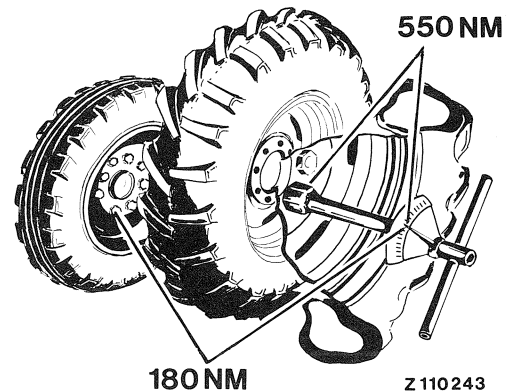
Z39446-1169HAZE-010289

WHEEL BOLTS

After the first hour of operation and again after the first 10 to 20 hours of operation:

– Tighten rear wheel bolts to 180 Nm (130 ft-lb) torque.

– Tighten front wheel bolts to 550 Nm (398 ft-lb) torque.

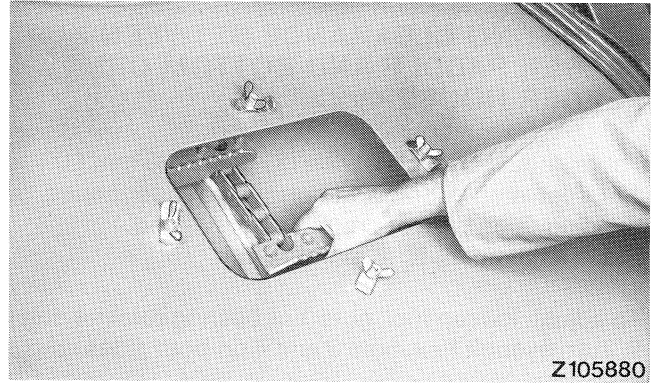


Z110243-1068HAZE-100386

Service – Feeder House

CHECKING TENSION OF CONVEYOR CHAIN

Chain tension is correct when the chain can be raised 30 to 40 mm (1-3/16 to 1-37/64 in.), exerting a force of approx. 300 N (66 lb) halfway between upper and lower feeder conveyor shafts.



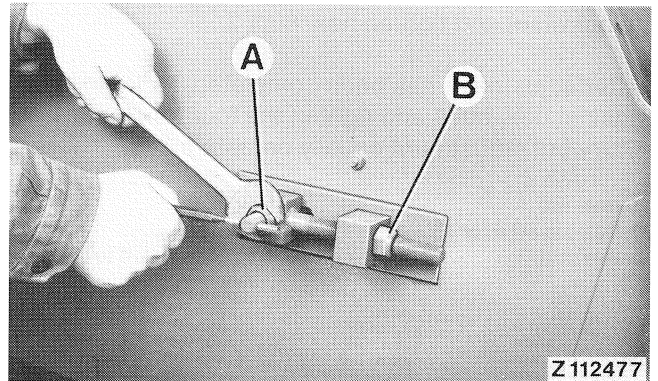
Z105880-1169HAZE-010289

ADJUSTING TENSION OF CONVEYOR CHAIN

Loosen hex. nut (A) on both sides of feeder house. Then turn lock nuts (B and C) evenly on both sides until correct chain tension has been obtained. Finally tighten all nuts.

IMPORTANT: This adjustment must be carried out equally on both sides.

Chain Tensioner – Guard Removed



Z112477-1169HAZE-010289

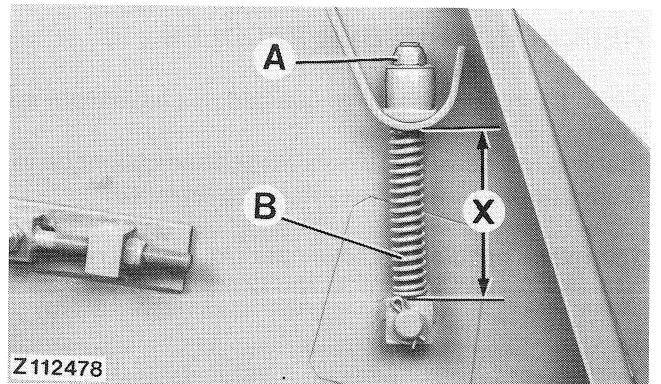
ADJUSTING HEIGHT OF BOTTOM CONVEYOR DRUM

The adjusted height is dependent upon the type of crop to be harvested:

- Normal grain crops: Lower
- Maize, rape etc.: Higher

IMPORTANT: Adjusted length (X) of spring (A) should be 127 to 133 mm (5 to 5-1/4 in.) for normal grain crops and 107 to 113 mm (4-3/16 to 4-7/16 in.) for maize and rape.

A–Spring
B–Adjusting nut
X–Adjusted spring length



Z112478-1169HAZE-010289

ADJUSTING CLEARANCE BETWEEN FEEDER PADDLE AND BOTTOM OF FEEDER HOUSE

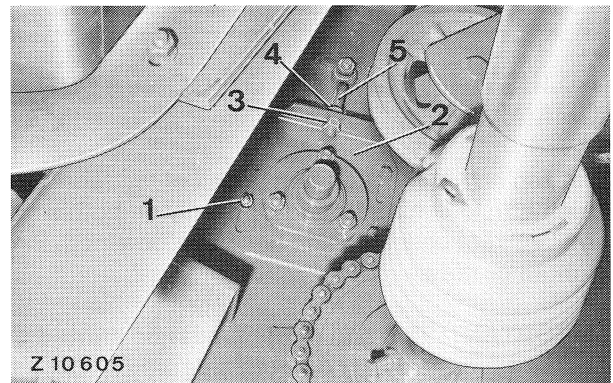
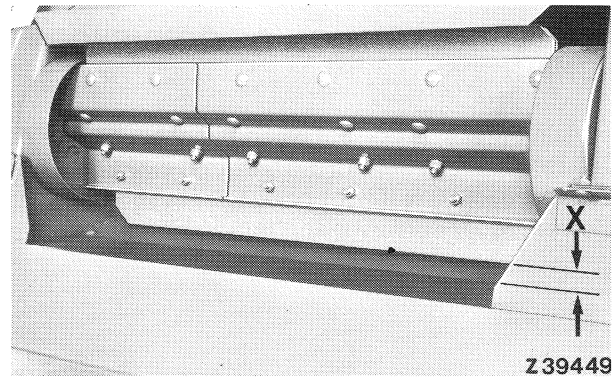
There should be a clearance (X) of 6 to 25 mm (1/4 to 1 in.) between paddle and bottom of feeder house, depending upon type of crop to be harvested. Basic adjustment is 18 mm (3/4 in.)

To adjust, loosen hex. nuts 1 of bearing retainer shield
2. Turn eyebolt hex. nuts 3 and 4 on both sides.

To lower paddle, loosen hex. nuts 3 and turn hex. nuts 4 counterclockwise. To raise paddle, loosen hex. nuts 4 (clockwise) and tighten hex. nuts 3.

After adjustment has been completed, lock hex. nut 3 against hex. nut 4 and tighten the four hex. nuts 1. Carry out adjustment equally on both sides.

- | | |
|---------------------------|-----------------------------|
| 1–Hex. nut | 4–Hex. nut |
| 2–Bearing retainer shield | 5–Eyebolt |
| 3–Hex. nut | X–6 to 25 mm (1/4 to 1 in.) |

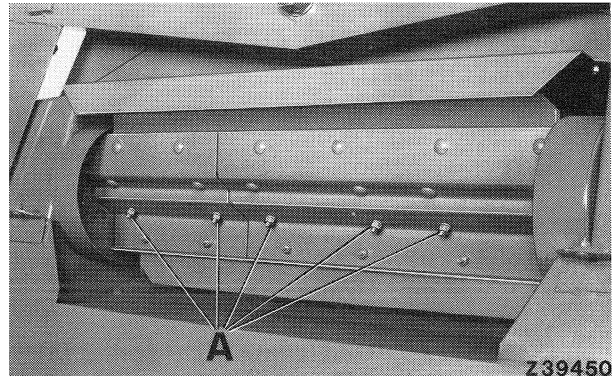


Z39449, Z10605-1068HAZE-000386

REPLACING RUBBER PADDLES

When the rubber feeder house paddles have worn so much that it is not possible to obtain specified clearance to feeder house bottom, they must be replaced.

To replace paddles, remove nuts (A). Having replaced paddles, tighten nuts to 35 Nm (25 ft-lb) torque.



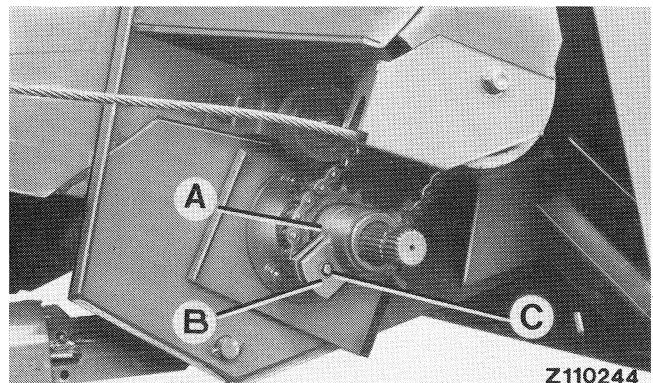
Z39450-1068HAZE-100386

PADDLE DRIVE – SHEAR BOLT

A shear bolt (C) is installed on the right-hand lower side of feeder house between collar (B) and sprocket (A).

Replace broken shear bolt, aligning sprocket (A) and collar (B).

When replacing shear bolt, always use original shear bolt (see parts catalog).



Z110244-1068HAZE-100386

Storage

AFTER THE SEASON

Leveling System

Perform all work listed under "Storage" in basic operator's manual. In addition, proceed as follows:

Raise feeder house to highest position.

Depress leveling control cut-out switch to position "M".

By means of manual leveling control switch, tilt combine first to the left and then to the right alternately, thereby opening the relevant bleed screw on top of each hydraulic leveling cylinder.

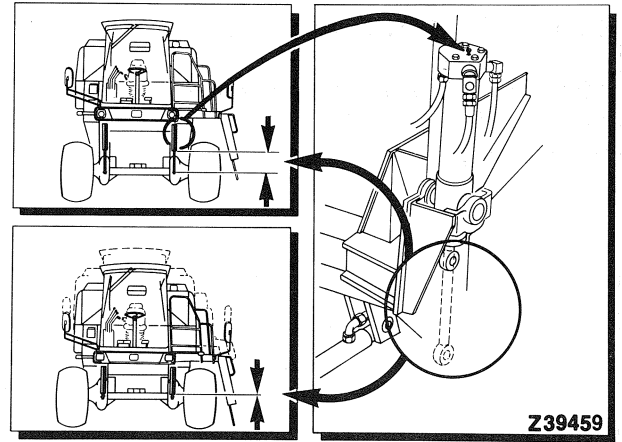


CAUTION: Combine tilts forward when bleeding leveling cylinders. Make sure everyone is clear of combine.

Push manual leveling control switch to the left and right repeatedly to ensure that both leveling cylinders are fully retracted. Close bleed screws.

Push leveling control cut-out switch to position "A".

Lower feeder house to the ground.



Z39459-1169HAZE-010289

REMOVING COMBINE FROM STORAGE

Leveling System

Check oil level in hydraulic oil reservoir.



CAUTION: Make certain everyone is clear of the machine before manually tilting combine.

Close leveling cylinder bleed screws.

Depress leveling control cut-out switch to position "M".

Push manual leveling control switch alternately to right-hand and left-hand tilt positions with engine running at full throttle, holding switch at least 20 seconds in each position. Repeat this procedure several times.

Shut off engine and check hydraulic reservoir oil level. Add specified oil, if necessary.

EINLAGOM-1169HAZE-010289

Specifications

GENERAL INFORMATION

1166SII or 1166SII Hydro/4 combine specifications apply to 1169SII H and 1169SII Hydro/4, with the exception of the following:

TECHANOM-1169HAZE-011090

GROUND SPEEDS WITH MECHANICAL GROUND SPEED DRIVE

18.4-30 Tires

1st gear	1.1 to 2.6 km/h (0.7 to 1.6 mph)
2nd gear	2.3 to 5.1 km/h (1.4 to 3.2 mph)
3rd gear	4.1 to 9.3 km/h (2.5 to 5.8 mph)
4th gear	8.3 to 18.6 km/h (5.2 to 11.5 mph)
Reverse gear	2.3 to 5.8 km/h (1.4 to 3.6 mph)

TECHANOM-1169HBZE-010290

GROUND SPEEDS WITH HYDROSTATIC GROUND SPEED DRIVE

23.1-26 Tires

1st gear	0.4 to 2.6 km/h (0.25 to 1.6 mph)
2nd gear	1.0 to 5.2 km/h (0.6 to 3.2 mph)
3rd gear	1.8 to 9.4 km/h (1.1 to 5.8 mph)
4th gear	4.1 to 19 km/h (2.5 to 11.5 mph)

NOTE: The lower range speed shown is the recommended minimum speed for that range.

TECHANOM-1169HCZE-010290

CAPACITIES

Fuel tank	300 liters; 79.3 U.S.gal.
Engine crankcase including oil filter	
– 1169SII H	13 liters; 3.4 U.S.gal.
– 1169SII Hydro/4	17 liters; 4.5 U.S.gal.
Hydrostatic system – 1169SII Hydro/4	
– Initial filling	30 liters; 7.9 U.S.gal.
– Oil reservoir with filter	8 liters; 2.1 U.S.gal.
Transmission case	6.6 liters; 1.75 U.S.gal.
Final drives	5.6 liters; 1.5 U.S.gal.
Hydraulic system	
– Initial filling	30 liters; 8.0 U.S.gal.
– Hydraulic oil reservoir	20 liters; 5.3 U.S.gal.
Cooling system	
1169SII H, 1169SII Hydro/4	30 liters; 8.0 U.S.gal.

TECHANOM-1169HBZE-011090

ENGINE

Engine type

– 1169SII H	CD 6359 TZ003
– 1169SII Hydro/4	CD 6359 TZ002

Engine power at rated engine speed, including attachments, according to ISO 2288

– 1169SII H	92 kW (125 PS)
– 1169SII Hydro/4	110 kW (150 PS)

Max. torque

– 1169SII H at 1500 rpm	420 Nm (304 ft-lb)
– 1169SII Hydro/4 at 1700 rpm	510 Nm (369 ft-lb)

Torque at rated engine speed

– 1169SII H	350 Nm (253 ft-lb)
– 1169SII Hydro/4	425 Nm (308 ft-lb)

Number of cylinders	6
---------------------------	---

Bore	106.5 mm (4.19 in.)
------------	---------------------

Stroke	110 mm (4.33 in.)
--------------	-------------------

Displacement	5883 cm ³ (359 cu-in.)
--------------------	-----------------------------------

Compression ratio	16.8:1
-------------------------	--------

Firing order	1-5-3-6-2-4
--------------------	-------------

Full load speed	2500 rpm
-----------------------	----------

Fast idle	2675 + 50 rpm
-----------------	---------------

Slow idle	1200 ± 50 rpm
-----------------	---------------

TECHANOM-1169HCZE-011090

SOUND LEVEL

Maximum sound level at operator's ear in accordance
with Directive 86/188EEC.

Measurement method in accordance with ISO5131,
with cab closed.

1169SII H with SG2 cab	83.3 dB(A)
1169SII Hydro/4 with SG2 cab	85.2 dB(A)

TECHANOM-1169HDZE-011090

Index

A

Access ladder	10-3
Additional switches	10-1
Additional indicator lights	10-2

B

Brake fluid	30-3
Brake fluid reservoir	50-1
Brake linings	50-1

C

Capacities	30-1,2,3,70-1
Controls and instruments	10-1

D

Daily preparations	20-7
Driving the combine	20-1

E

Electrical system	45-1
-------------------------	------

F

Feeder conveyor chain	55-1
Feeder conveyor drum	55-1
Feeder house	55-1
Feeder paddle	55-2
Field operation	20-8
Final drives	50-4
Foot brakes	20-2,50-1
Front axle	50-4
Fuel, lubricants and capacities	30-1

G

Ground speed drive	50-3
--------------------------	------

H

Hydraulic oil	30-2
---------------------	------

I

Indicator lights	10-2,20-4
------------------------	-----------

L

Leveling control cut-out switch	10-1,20-3
Leveling sensing control box	45-1
Leveling system	20-3
Lubricating points	35-1

M

Manual leveling control switch	10-1,20-4
--------------------------------------	-----------

O

Operator's platform and cab	10-3
-----------------------------------	------

P

Paddle drive shear bolt	55-2
Periodic services	35-4

R

Rear axle	50-4
-----------------	------

S

Service	
– Air conditioning system	45-1
– Electrical system	45-3
– Feeder house	55-1
– Hydraulic system	45-4
– Transmission and brakes	50-1
Sidehill leveling system	20-3
Specifications	70-1
Storage	65-1
– After the season	65-1
– Removing combine from storage	65-1

V

Variable ground speed drive	50-3
-----------------------------------	------

W

Wheel bolts	50-4
-------------------	------

John Deere Service Keeps You on the Job

JOHN DEERE PARTS

We help minimize downtime by putting genuine John Deere parts in your hands in a hurry.

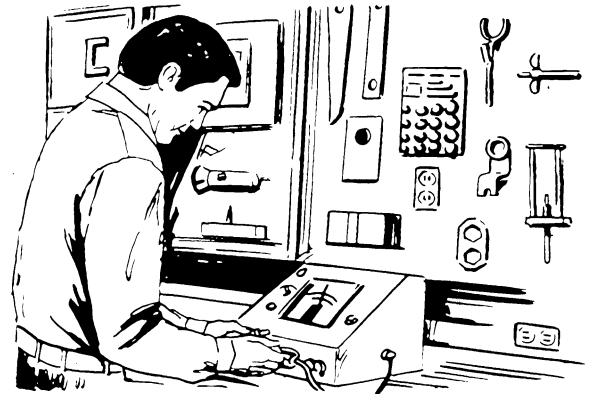
That's why we maintain a large and varied inventory – to stay a jump ahead of your needs.



TS100-ESPD AE-200488

THE RIGHT TOOLS

Precision tools and testing equipment enable our Service Department to locate and correct trouble quickly ... to save you time and money.



TS101-ESPD AE-200488

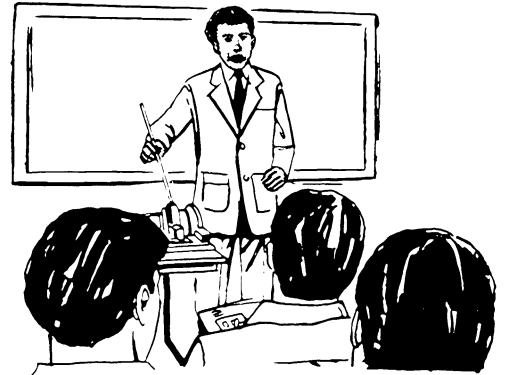
WELL-TRAINED TECHNICIANS

School is never out for John Deere service technicians.

Training schools are held regularly to be sure our personnel know your equipment and how to maintain it.

Result?

Experience you can count on!



TS102-ESPD AE-200488

PROMPT SERVICE

Our goal is to provide prompt, efficient care when you want it and where you want it.

We can make repairs at your place or at ours, depending on the circumstances.

See us.

Depend on us.

John Deere Service Superiority: We'll be around when you need us.



TS103-ESPD AE-200488

