6622
COMBINE

JOHN DEERE

OPERATORS MANUAL

6622
COMBINE

OMH120056 B5 English

JOHN DEERE HARVESTER WORKS
OMH120056 B5

LITHO IN THE U.S.A.
ENGLISH

INTRODUCTION

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

Your operator's manual contains SI metric equivalents which follow immediately after the U.S. customary units of measure.

"Right-hand" and "left-hand" sides are determined by facing in the direction the combine will travel when in use.

Record the identification number(s) in the space provided following Specifications. Accurately record all of the characters because (should the product be stolen) tracing is sometimes through a computer match of letters and numbers. Also, your dealer needs this information when ordering parts. If you carry your operator's manual on the machine for reference, be sure to also record the identification number(s) on a separate sheet of paper and file it in a secure place not on the machine so you will still have a record in case the machine is stolen.

The warranty on this combine appears on your copy of the purchase order which you should have received from your dealer when making your purchase. This warranty provides you the assurance that John Deere will back its products when defects appear within the warranty period. In some circumstances, John Deere also provided field improvements, often without charge to the customer, even if the product is out of warranty.

The tire manufacturer's warranty supplied with your machine may not apply outside the U.S. and Canada.

Warranty and field improvements are a part of John Deere's product support program for customers who operate and maintain their equipment as described in this manual. Should the equipment be abused or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

Contents

Safety

SAFETY DECALS

H28488N

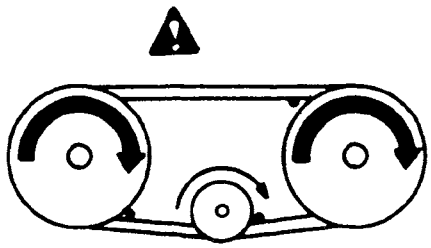
H28488N

CAUTION or WARNING: Decals with these headings and symbol indicate the possibility of personal injury.

IMPORTANT: Decals with this heading indicate the possibility of damage to the machine.

Decals are located in areas where they apply.

AVOID CONTACT WITH MOVING PARTS



H36880

Keep guards and shields in place at all times while operating the combine. Always disengage separator and shut off engine before removing guards or shields.

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

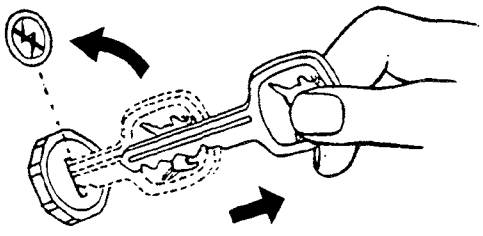
Keep hands, feet, and clothing away from power-driven parts.

Never clean, lubricate, or adjust the combine when it is running.

Everyone must be clear before starting engine or running combine.

Never attempt to clear obstructions off the platform unless the separator is disengaged and the engine is shut off.

LEAVING COMBINE UNATTENDED



H36524

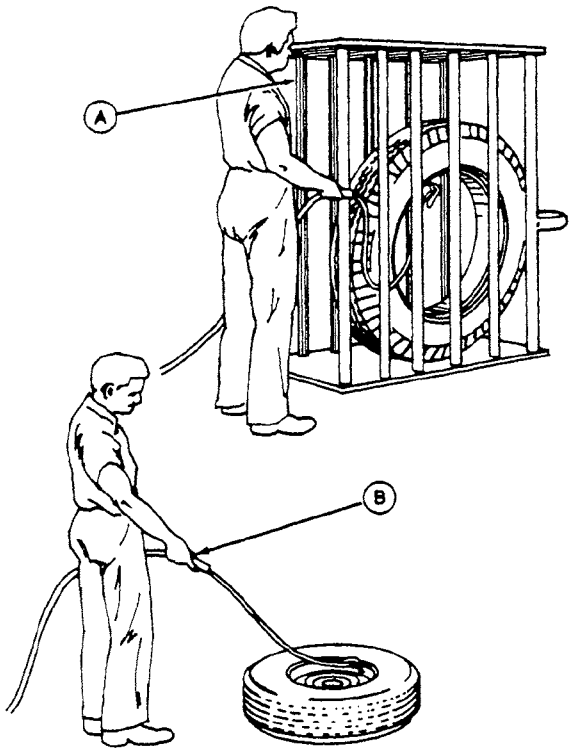
Before leaving the combine unattended, turn off engine and remove keys, support the platform with either the hydraulic cylinder safety stop, or lower it to the ground. The gearshift lever must be in neutral and the parking brake engaged. Lock cab doors.

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 (2.40 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.

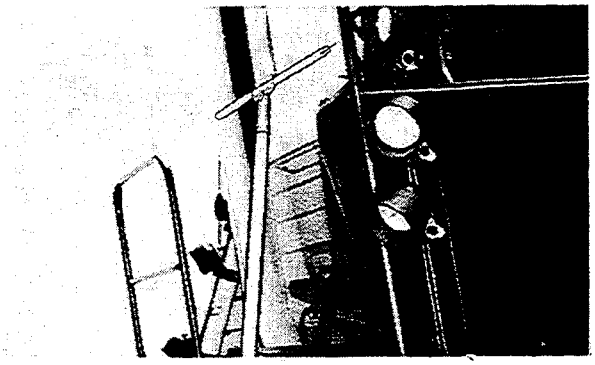


A—Use a safety cage if available.
B—Do not stand over tire. Use a clip-on chuck and extension hose.

T5·0123

WASHING FRONT CAB WINDOW

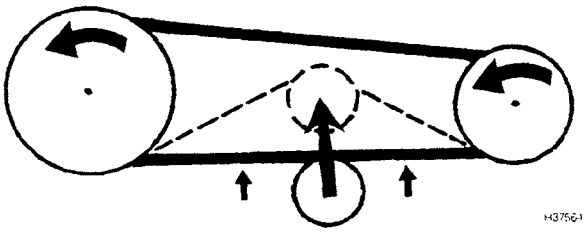
To wash front window of cab, stand on ground and use a long handled squeegee or mop to reach top of window. Do not stand on feeder house or cutting platform top beam as this could result in a fall.



H50157

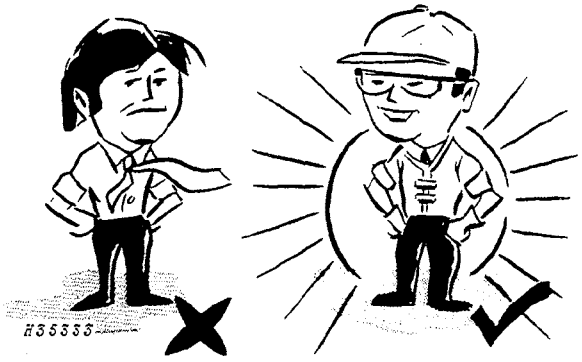
SERVICING DRIVES AND DRIVE RELATED AREAS

Before servicing the combine in either a belt driven area or any area receiving power from a belt drive, it is recommended that the engine be shut off. Some drives, due to their clutching and declutching characteristics, can be engaged when the engine is running by the applying or removing of outside forces.



H3756-1

OPERATE SAFELY



H35333

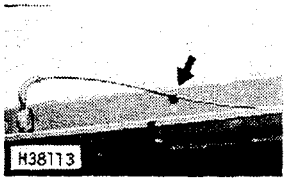
Clothing worn by operator must be fairly tight and belted. Loose jackets, shirts, or sleeves must never be worn.

The gearshift lever must be in neutral and the separator disengaged before starting engine.

Always keep the combine in gear when going down hills.

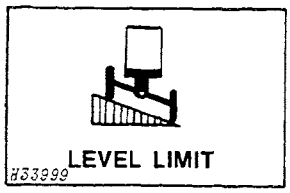
Use right-hand cab door to get to engine compartment or feeder house areas. Never climb to these areas from the ground.

Do not ride or attempt to climb rear ladder while combine is moving.



H38113

The radio antenna must be bent forward and secured with clip any time combine may come into contact with a high voltage wire or when combine is transported.



H33999

The leveling limit warning light will flash on when separator has reached leveling limit. Beyond this point, separator will start to lean and operator should only proceed with utmost caution.

BATTERIES

H36842L

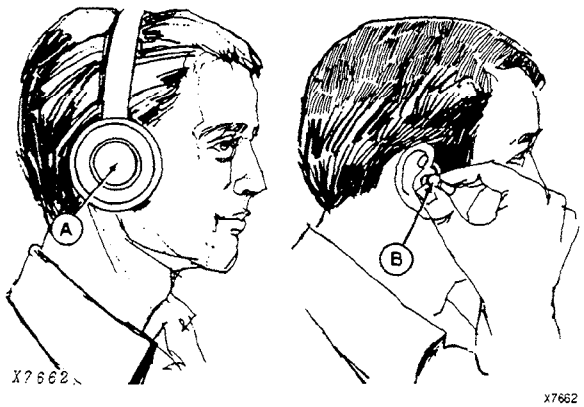
Batteries generate explosive gases. Keep sparks, flames, burning cigarettes, or other ignition sources away at all times. Always shield eyes when working near batteries. Always wear safety glasses.

Do not connect or disconnect live circuits.

Turn off charger before attaching or removing a lead from the battery.

Ventilate the area when charging.

NOISE



X7662

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

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

A—Earmuffs
B—Earplugs

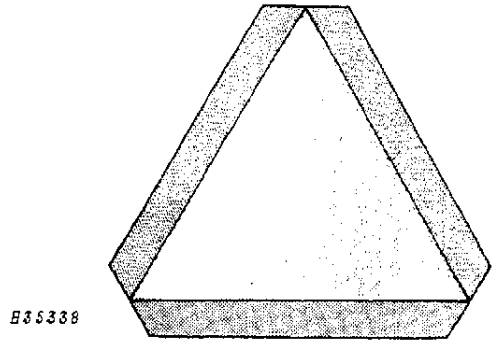
TRANSPORT SAFELY

Never ride or allow anyone on the operator's platform.

Be extra careful when transporting the combine in hilly country. Never transport with grain in tank and always lock brake pedals together.

When transporting the combine on a road or highway, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Also check width laws.

The radio antenna must be bent forward and secured with clip when transporting combine. This prevents the antenna coming into contact with a high voltage wire.



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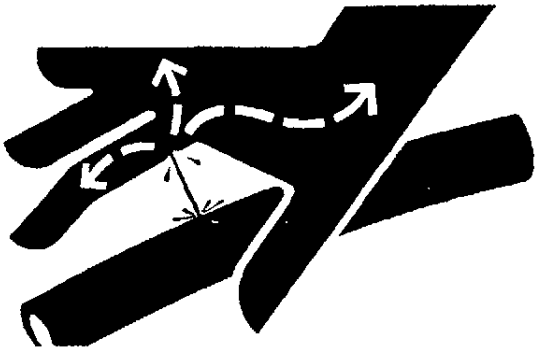
H05338

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.

Cracking hydraulic line fittings to lower the feeder house will result in an instantaneous dropping of feeder house or feeder house and header.



X9811

FIRE EXTINGUISHER

Have a multipurpose dry chemical fire extinguisher filled and handy. Know how to use it.

DO NOT refuel with the engine running.

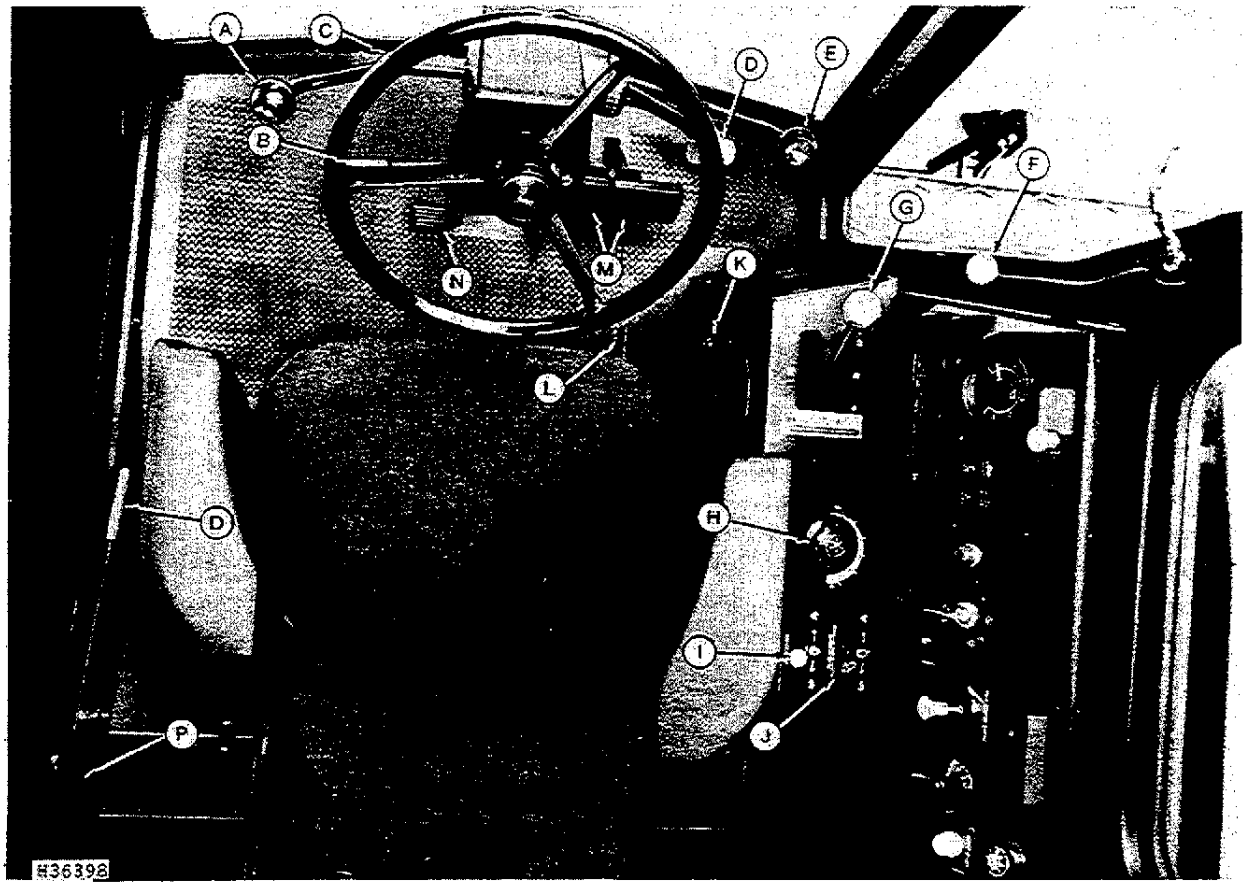
DO NOT smoke or use a lantern when refueling.

The part number of the extinguisher is AT62018. See Operators Station for installation instructions.

RW2389

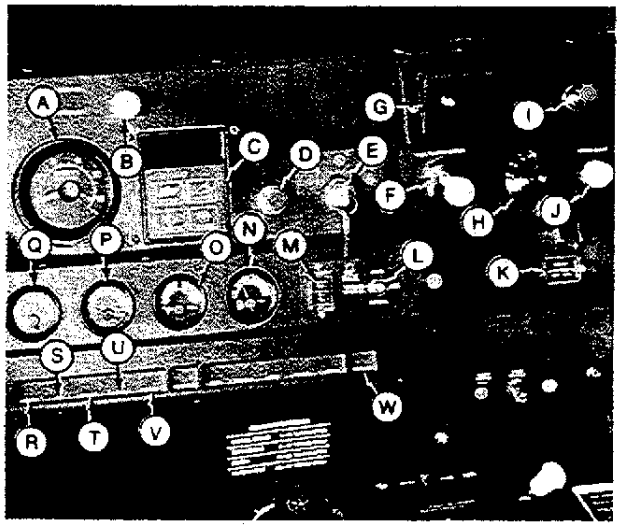
Operator's Station

INSTRUMENTS AND CONTROLS IDENTIFICATION



H36398

Instrument Panel Controls and Instruments



H50158

INSTRUMENTS

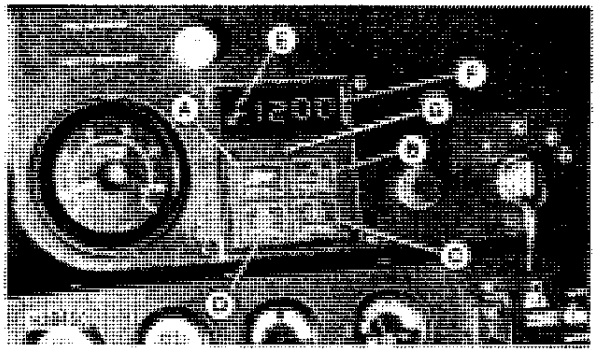
Digital Display Tachometer Speed Monitoring System

The display will show ground speed when the ignition switch is turned on.

Press symbol, ground speed (A), platform shaft speed (B), cleaning fan speed (C), engine speed (D), to show the speed for that function on the display.

Each symbol, when touched, will show a square (E) in the left-hand corner of the digital readout (F). The square (E) moves on the selector symbol showing the location of symbol that has been touched.

The dot (G) between the display and the function symbols automatically controls the brightness of the display for the exsiting light conditions.

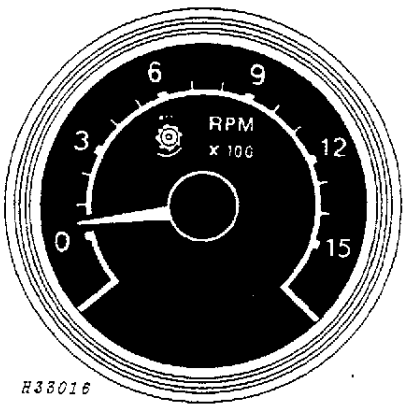


H38450

A—Ground Speed
B—Platform Shaft Speed
C—Cleaning Fan Speed
D—Engine Speed
E—Selector Symbol With Square
F—Digital Readout
G—Brightness Dot

Cylinder Speed Tachometer

The tachometer reads cylinder rpm by hundreds.



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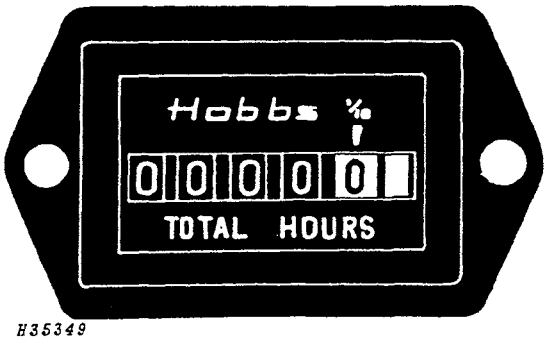
H33016



H35349

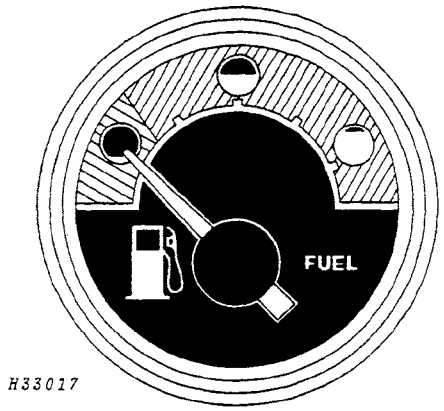
H35349

Engine Hour Meter

The hour meter shows the accumulated engine service in hours and tenths of hours. When the ignition switch is turned off, the hour meter will stop.

IMPORTANT: Do not leave the ignition switch on without running the engine, or the hour meter will continue to register hours.

NOTE Hour meter will not register with ignition switch in "ACC" position.



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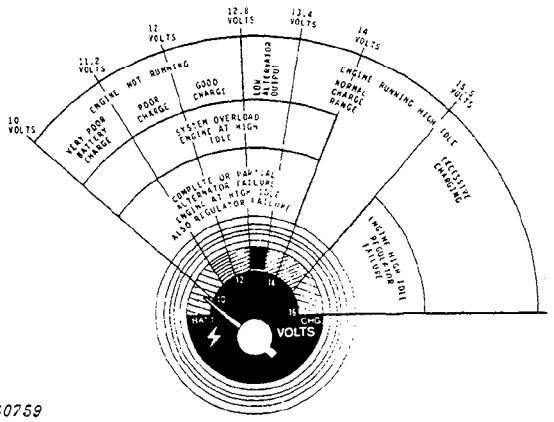
H33017

Fuel Gauge

Stop to refuel before fuel gauge reaches empty mark. Never allow a diesel engine to run out of fuel.

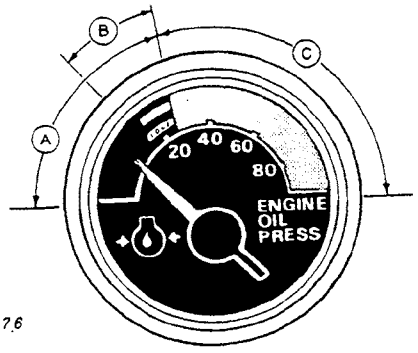


H30759

H30759

Voltmeter

The numbers on the gauge indicates volts. A normal charge range is 12.8 to 15.5 volts with engine operating.



H35376

H35376

Engine Oil Pressure Gauge

This gauge indicates pressure in psi.

Normal operating range is in green zone (C) 25 to 80 psi (1.7 to 5.5 bar).

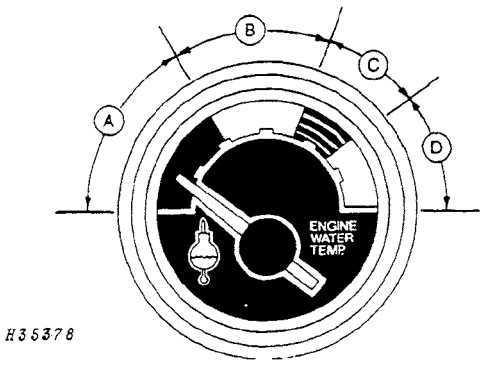
A—Red Zone
B—Red and White Striped Zone
10 - 25 psi (0.7 - 1.7 bar)
C—Green Zone 25 - 80 psi (1.7 - 5.5 bar)

Coolant Temperature Gauge

1. Black Zone - below normal temperature.
2. Green Zone - indicates normal temperature.
3. Green and White Striped Zone - indicates the rotary screen and radiator must be cleaned.
4. Red-Orange Zone - indicates overheating. Alarm buzzer will also sound.

IMPORTANT: If needle on gauge goes into the red-orange zone, stop engine immediately and determine cause.

A—Black Zone
B—Green Zone
C—Green with White Stripes
D—Red Zone

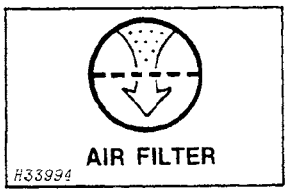


H35378

Warning Lights

Air Restriction Indicator

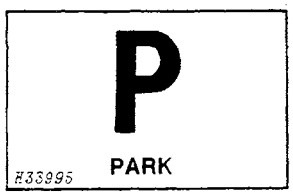
This lamp will glow when the vacuum in the air intake increases to 22 to 26 inches (5.5 to 6.5 kPa) of water due to a plugged engine air cleaner.



H33994

Parking Brake Indicator

This lamp will glow and buzzer sound whenever the parking brake is engaged.



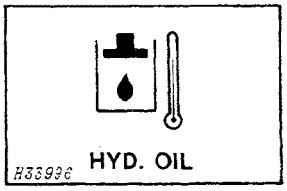
H33995

Hydraulic Oil Temperature and Hydrostatic Oil Temperature

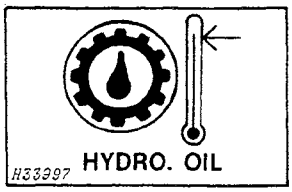
IMPORTANT: Oil will typically run 100° above air temperature. This may cause warning light and buzzer to operate. However, caution must be used to determine whether warning is due to air temperature or to a malfunction of the system.

Hydraulic Oil Temperature

The lamp will glow and buzzer sound whenever the oil temperature reaches 220°F (105°C). Continued operation may damage hydraulic system components.



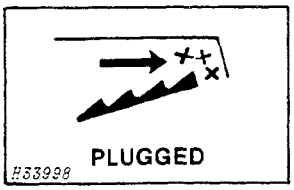
H33996



H33997

Hydrostatic Oil Temp

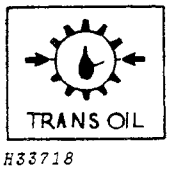
The lamp glows and buzzer sounds whenever oil temprature in hydrostatic reservoir reaches 210°F (99°C). Continued operation may damage the hydrostatic drive unit.



H33998

Plugged Straw Walker

The lamp glows and buzzer sounds whenever a buildup of material on straw walkers occurs. Continued operation will damage straw walkers.



H33718

Transmission Oil Pressure

This light is operated by the transmission lubrication pump, which is located on the right hand side of the transmission.

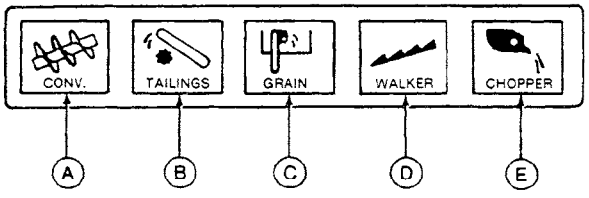
A drop in the input shaft rpm and a pressure drop of 2 to 3 psi (0.14 to 0.20 bar) (13.8 to 20.7 kPa) combined with any of the following conditions will cause this light to flash.

Oil pressure will drop to zero under the following conditions.

1. Speed range lever in Neutral.
2. Speed range lever in Reverse.
3. Transmission oil pump fails.

Oil pressure might drop below 4 to 6 psi (0.28 to 0.41 bar) (27.6 to 41.4 kPa) and cause light to flash under the following conditions:

1. Speed range lever set for slow forward speed.
2. Low engine rpm.
3. Extremely low transmission oil level.



H35005

A—Conveyor Augers
B—Tailings Elevator
C—Clean Grain Elevator
D—Straw Walker
E—Straw Chopper

Low Shaft Speed Monitor

The low shaft speed monitor indicates with glowing lights and buzzer when conveyor augers (A), tailings elevator (B), clean grain elevator (C), straw walkers (D), and straw chopper (E) (attachment) drive shafts are operating less than their designed speed. With engine off and ignition switch and electric clutch switch on, all five lights and buzzer must be on.

With engine at fast idle with separator and electric clutch engaged, lights and buzzer must be off.

When engine is throttled back with separator and electrical clutch engaged, straw chopper light will come on first (if combine is equipped with straw chopper), then remaining lights will come on.

Leveling Limit Warning Light

The limit switches activate a warning light (A) to warn the operator that the combine has reached its leveling limit. The switches also cut out the control circuit and allow the spool in the leveling valve to return to neutral.

CAUTION: Warning light (A) will flash on and off when the separator has reached the leveling limit. Beyond this point, the separator will start to lean and the operator should only proceed with the utmost caution.

Manual Leveling Control Switch

If the leveling mechanism should fail to function, the leveling mechanism can be controlled by manual control switch (B) located on the instrument panel. This switch will return to neutral position when released.

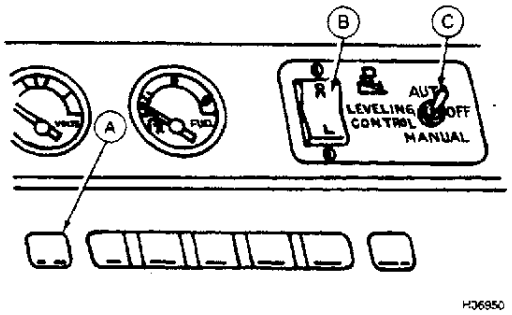
Push switch (B) at "R" for right-hand tilt and "L" for left-hand tilt.
If leveling control switch (C) is in "AUTO" position and manual leveling switch (B) is pushed and then released, combine will return to level.
If switch (C) is in "MANUAL" position and switch (B) is pushed and then released, combine will remain tilted.

IMPORTANT: Do not run engine with combine in the tilted position, while on level ground. Running the engine in this position could cause loss of oil pressure and result in engine damage.

If switch (C) is in "OFF" position the automatic and manual electrical circuits are turned off.

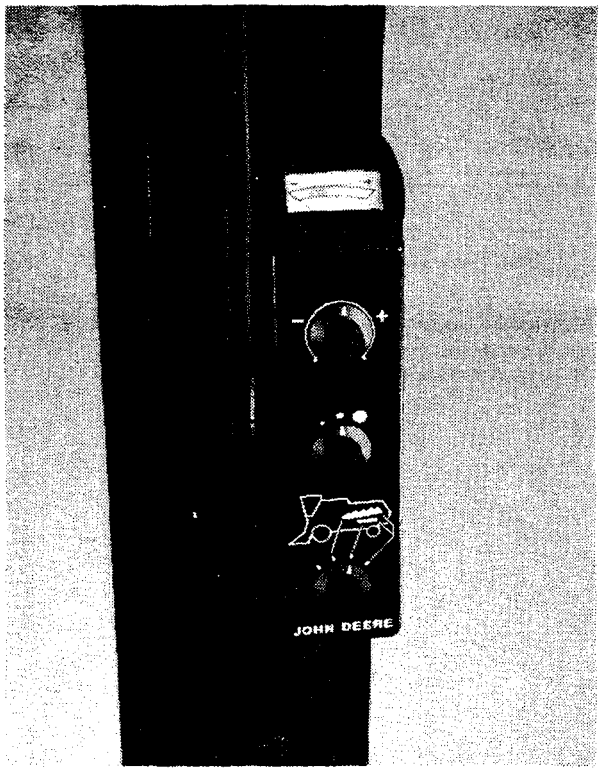
Leveling Control Switch

By moving switch (C) to "OFF" the leveling mechanism can be disengaged for various purposes such as transporting.
Move switch up to the "AUTO" position for normal leveling operation. Move switch down to the "MANUAL" position for manual leveling mechanism. Move switch to "OFF" position to disengage both manual or automatic leveling.



H06850

A—Leveling Limit Warning Light
B—Manual Leveling Control Switch
C—Leveling Control Switch



HS0261

HARVESTRAK™ Combine Monitor

The optional HARVESTRAK Combine Monitor measures grain loss by measuring a representative sample of losses over the cleaning shoe and/or straw walkers. A change in the loss rate is indicated by the control panel meter.

HARVESTRAK continuously monitors combine performance to enable the operator to use maximum combine capacity. When the operator has adjusted combine and header to an acceptable loss level, the monitor can then be set to this level indicating whether to increase or decrease ground speed.

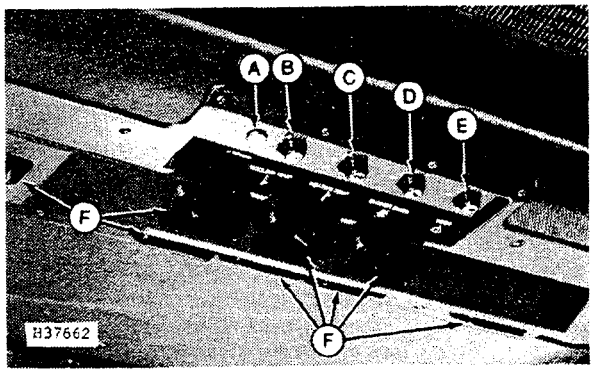
CONTROLS

NOTE: Only "comfort" controls are covered here. Driving and harvesting controls are covered in the applicable sections of this manual.

Louvered Air Outlets

Adjust louvers (F) to direct air where needed, such as for defogging windows.

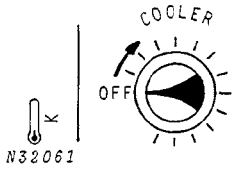
A—High Pressure Switch Light
B—Air Conditioning Temperature Control Knob
C—Heater Control Knob
D—Pressurizer Fan Switch
E—Windshield Wiper Switch
F—Air Flow Directional Louvers



H37662

Air Conditioning

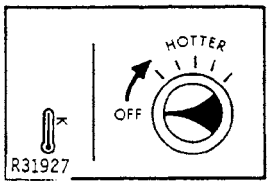
Pressurizer fan switch must be turned on before the air conditioning system will operate. Regulate temperature with air conditioning control switch and pressurizer fan speed switch.



N32061

Heater

Use heater control switch to adjust the amount of heat needed. The pressurizer fan switch must also be turned on to move air thru the heater.

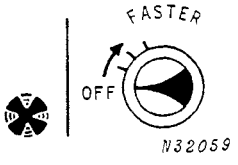


R31927

Pressurizer Fan

This switch controls fan which pressurizes cab. This is a three-speed switch with highest speed obtained by turning switch clockwise as far as it will go.

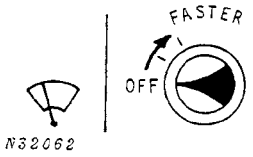
IMPORTANT: Pressurizer fan must be operating whenever heater or air conditioner is in use.



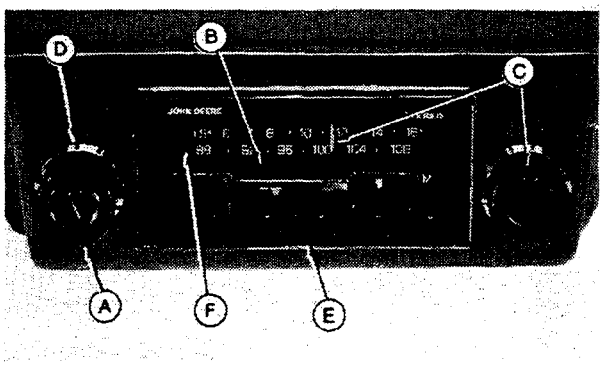
N32059

Wiper

The windshield wiper has a two speed switch.

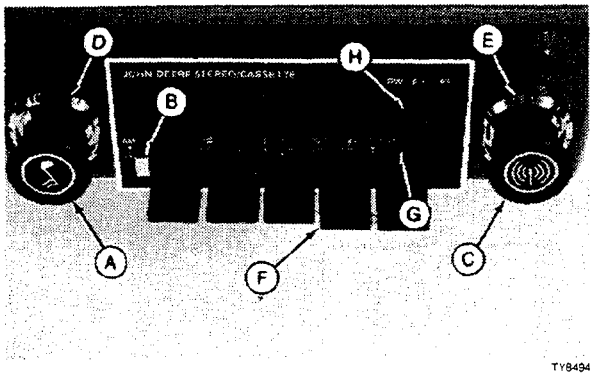


N32062



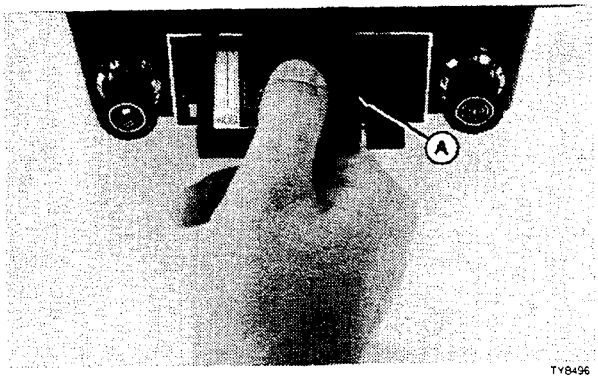
TY6652

A—On-Off, Volume and Balance Knob
B—AM/FM Switch
C—Tuning Control Knob
D—Tone Control Ring
E—Station Push Buttons
F—Stereo Light



TY8494

A—On-Off, Volume and Balance Knob
B—AM/FM Button
C—Tuning Control Knob
D—Base Tuning Control Ring
E—Treble Tuning Control Ring
F—Station Push Buttons
G—Stereo Light
H—Cassette Control Button



TY8496

Radio - AM and AM-FM Stereo (Optional)

Use the ON-OFF and volume control (A) to turn radio on and off and to adjust sound volume level.

Move AM/FM band switch (B) to select AM or FM broadcast band (AM/FM Stereo only).

Turn tuning control (C) to select station.

Use tone control (D) to adjust sound tone from treble to bass.

Push in and turn the balance control (A) to adjust sound level between left and right channels (AM/FM stereo only).

Push one of five push-button selectors (E) to select one pre-set station.

Stereo light (F) glows when FM stereo broadcast is being received (AM/FM stereo only).

Radio - AM/FM Stereo Cassette (Optional)

Use the ON-OFF, volume control (A) to turn radio and cassette player on and off and to adjust sound volume level.

Push AM/FM button (B) in or out to select AM or FM broadcast band.

Turn tuning control (C) to select station.

Use bass tone control (D) to adjust bass.

Use treble tone control (E) to adjust treble.

Push in and turn the balance control (A) to adjust sound level between left and right channels.

Push one of five station push-buttons (F) to select one pre-set station.

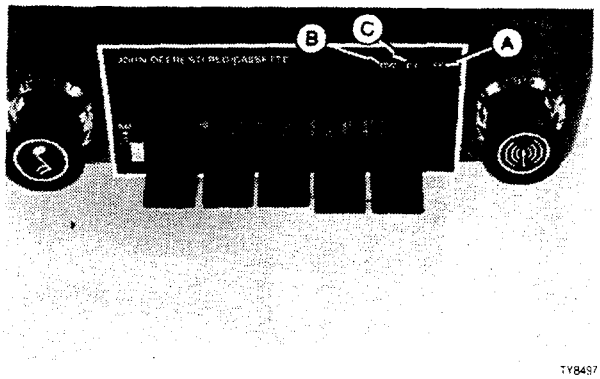
Stereo light (G) glows when FM stereo broadcast is being received.

Operate Cassette Player

1. Turn radio on.
2. Insert cassette through cassette door with exposed tape (A) to the right side.
3. To play program on opposite side, turn cassette over and reinsert with exposed tape (A) to the right side.

Operate Tape Control Button

1. Push Cassette Control Button to the right (A) to rapidly advance tape.
2. Push Cassette Control Button to the left (B) to rapidly rewind tape.
3. Push Cassette Control Button (C) to eject cassette from player.



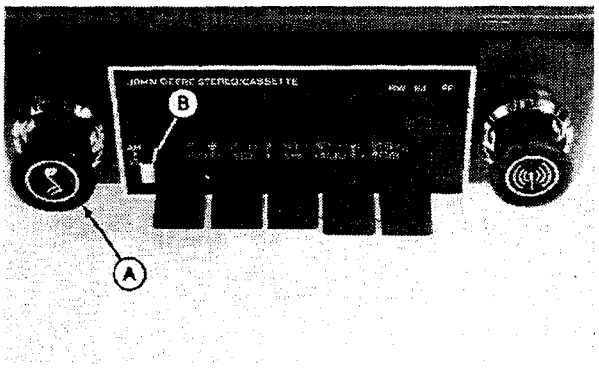
TY8497

Adjust Antenna Trimmer (AM/FM Stereo Cassette)

NOTE: Antenna must be in upright vertical position while making the following adjustments.

1. Turn ON-OFF and Volume Control (A) to the right to turn radio on.
2. Place AM/FM Button (B) in out position of AM band.
3. Tune in a weak station around 1400 kHz.

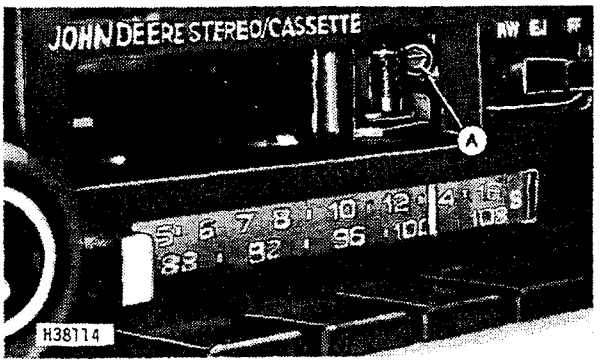
A—ON-OFF, Volumn Knob
B—AM/FM Switch



TY8501

4. Open cassette door and locate antenna trimmer (A) to right side in the cassette player.
5. Adjust antenna trimmer with a screwdriver (1/16 in. or smaller) for maximum volume (reception).

A—Trimmer Screw



H38114

Suggest:

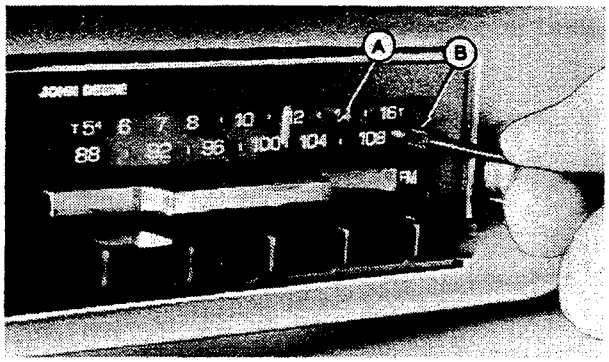
If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

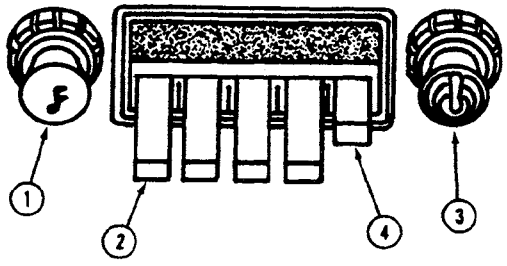


RW4898

A—Weak AM Station
B—Trimmer Screw

Adjust Antenna Trimmer, or AM Band of AM/FM Stereo

1. Place antenna in vertical position while making the following adjustments.
2. Turn ON-OFF, volume control knob on.
3. Place AM/FM button in AM band position.
4. Tune in a weak station around 1400 kHz (A).
5. Turn trimmer screw for best reception. If reception does not improve, see your John Deere dealer for noise supression and improved reception kits.
6. See Electrical System for fuse locatioin and replacement.



TY6856

Set Push Buttons

NOTE: Antenna must be in upright position to make the following adjustment.

1. Turn radio on.
2. Pull all push buttons out.
3. Tune in selected station with tuning control. (AM/FM Band Switch must be on selected band on AM/FM stereo radio and AM/FM stereo cassette radios.)
4. Push one button in to lock to selected station.
5. Repeat steps 4 and 5 for remaining four buttons.

NOTE: A total combination of 5 AM or FM stations can be set on AM/FM Stereo and AM/FM Stereo Cassette Radios.