

4050, 4250 AND 4450 TRACTORS



JOHN DEERE

OPERATORS MANUAL

4050, 4250 AND
4450 TRACTORS

OMRW16851 I4 English

JOHN DEERE TRACTOR WORKS
OMRW16851 I4

LITHO IN THE U.S.A.
ENGLISH



IMPORTANT WARRANTY INFORMATION

The warranty on this tractor 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 where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty.

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.

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

SAFETY



This safety alert symbol indicates 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.

SYMBOLS



Worldwide symbols are used to assist identification and operation. In this manual, an identifying symbol is placed by the instructions like the example at left for the symbol on the engine oil pressure gauge. The cylinder block in the symbol represents the engine, the drop signifies oil, and the arrows indicate pressure. Regardless of the language used in a nation, this symbol means engine oil pressure without translation.

MEASUREMENTS

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

DIRECTION

"Right-hand" and "left-hand" sides of the tractor are determined by facing in the direction of tractor forward travel.

PRODUCT IDENTIFICATION NUMBERS

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.

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Hello dear friend!

Thank you very much for reading.

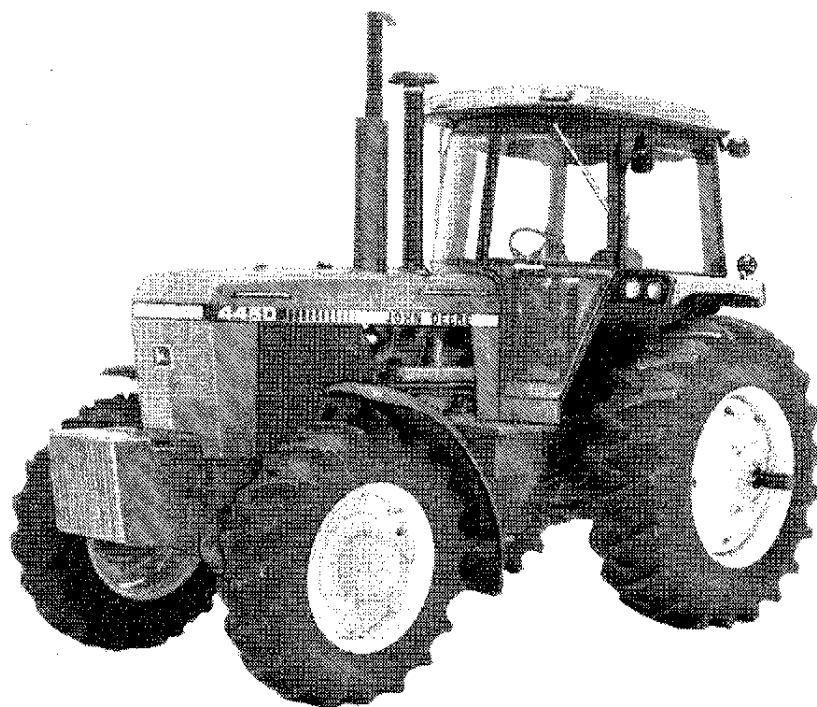
Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>

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John Deere 4450 Tractor

Safety

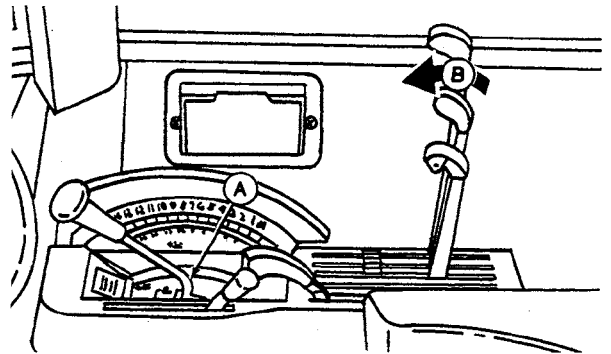
STAY CLEAR OF MOVING TRACTOR

Be sure everyone is clear of tractor and attached equipment before starting engine. Some movement may occur as engine starts.

Never try to get on or off a moving tractor.

Before dismounting, place the transmission in PARK (A) and lower implements to the ground (B). If tractor is to be left unattended, stop the engine and remove the key.

Never attempt to start or operate tractor except from operator's station.



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USE PROTECTIVE EQUIPMENT PROPERLY

If your tractor is equipped with SOUND-GARD® body or four-post ROLL-GARD® protective frame, use a seat belt (A) under almost all operating conditions.

Use of seat belt for tractors without a rollover protective device is not recommended.

If your tractor usage permits, a ROLL-GARD protective frame is recommended. The ROLL-GARD will reduce the likelihood of serious injury or death in case of a tractor upset.

If SOUND-GARD or ROLL-GARD protective equipment is loosened or removed for any reasons, make certain all parts are reinstalled correctly. See your John Deere dealer or refer to a Technical Repair Manual.



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OPERATE TRACTOR SAFELY

Never allow riders on the tractor.

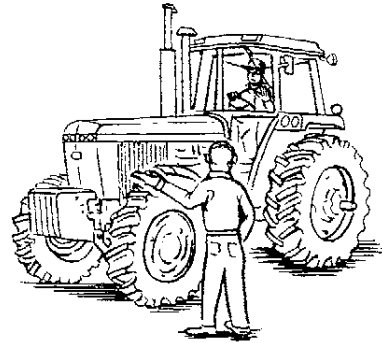
Slow down for hillsides, rough ground, and sharp turns.

Couple the brake pedals together before driving at transport speeds.

When implements or attachments are used with the tractor, always follow safety precautions listed in implement operator's manual or operating instructions. When raising a heavy object with a loader, be sure the object is secure from falling. It could fall on and seriously injure a bystander or the operator.

Keep all shields in place.

Always place transmission in PARK before dismounting. Leaving transmission in gear with engine stopped will NOT prevent tractor from moving.



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AVOID TIP-OVERS

Avoid holes, ditches, and obstructions which may cause the tractor to tip - especially on hillsides.

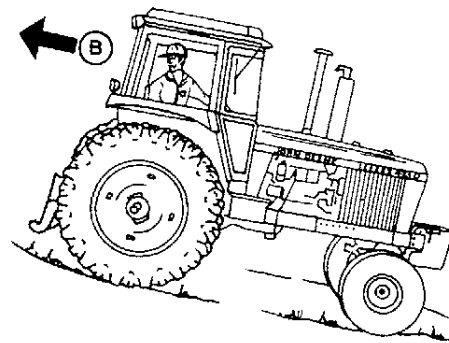
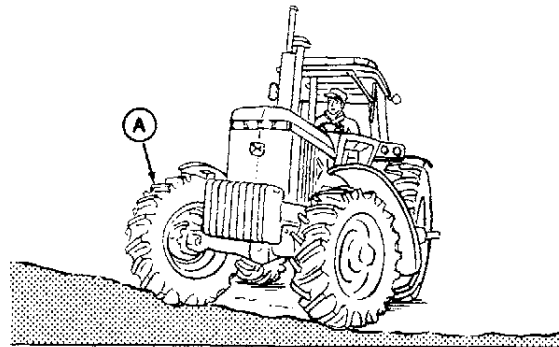
Front-wheel drive (A) greatly increases traction. When this option is used, extra caution is needed on slopes. Compared to 2-wheel drive, a front-wheel drive tractor maintains traction on steeper slopes, increasing the possibility of a tip over.

Never drive near the edge of a gully or steep embankment—it might cave in.

Driving forward out of a ditch or mired condition or up a steep slope could cause tractor to tip over rearward. Back out of these situations if possible (B).

Be especially careful when using single wheels. Danger of overturn increases greatly with narrow tread, 60 in. (1.50 m), at high speed.

Hitch towed loads only to drawbar. When using a chain, take up the slack slowly.



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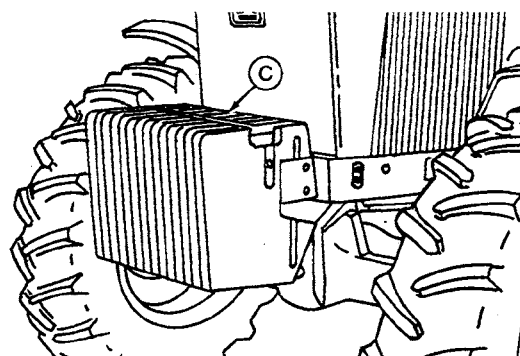
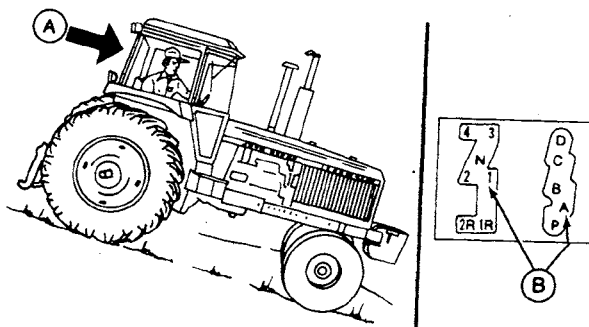
TRANSPORT TRACTOR SAFELY

Before descending a steep hill (A), shift to a low gear (B) to control the tractor with little or no braking. Make sure brake pedals are locked together. Never coast downhill.

When transporting downhill on icy or graveled grades, be alert for skids which could result in loss of steering control. To decrease chance of skids, reduce speed and be sure tractor is properly ballasted.

Additional ballast (C) may be needed for transporting heavy integral implements. When implement is raised, drive slowly over rough ground, regardless of how much ballast is used.

Before towing tractor, see instructions in Transporting section.



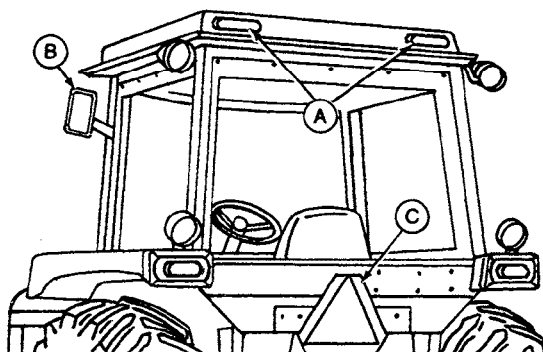
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MAKE TRACTOR VISIBLE ON HIGHWAY

Turn light switch to "H" position. Never use white lights which are visible from the rear. Always dim head lamps before meeting another vehicle. Keep head lamps properly adjusted.

Add SMV emblem, reflectors, and auxiliary lighting to equipment as required for safety and by local regulations.

Before operating tractor on highway, be sure flashing warning lamps (A) work properly. Adjust rear view mirror (B), and clean windows and SMV emblem (C).



AJ7;RW5694L U01;SAX1 05 170583

STAY CLEAR OF PTO

Stop the engine and be sure the PTO drive line (A) has stopped before:

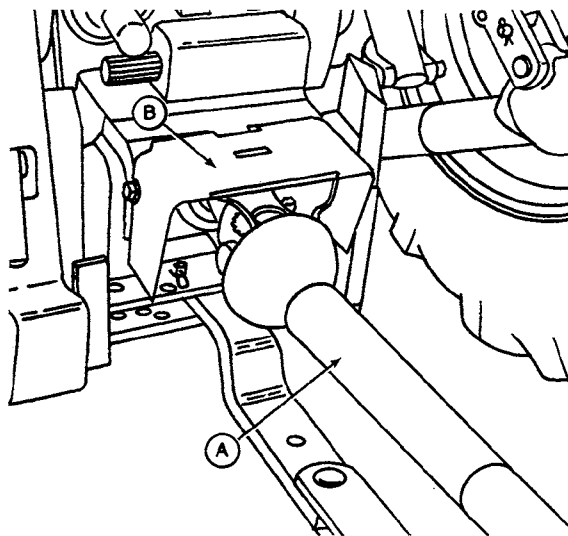
- Connecting or disconnecting implement drive line
- Making adjustments on the implement
- Cleaning out PTO driven equipment

PTO master shield (B) and drive line shield should be in place at all times except for special applications as directed in the implement operator's manual.

The PTO shaft guard should be in place when the PTO is not being used.

Operate PTO at recommended speed.

Avoid loose-fitting or dangling clothing.



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TOW EQUIPMENT PROPERLY

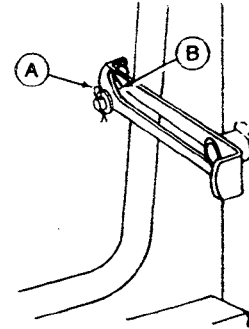
Use caution when towing loads at transport speeds. Reduce speed if towed load weighs more than the tractor and is not equipped with brakes. Avoid hard braking applications. (Consult implement operator's manual for recommended transport speeds.)

Use additional caution when transporting towed loads under adverse surface conditions, when turning, or on inclines.

U01;SAX1 06 140884

EMERGENCY EXIT

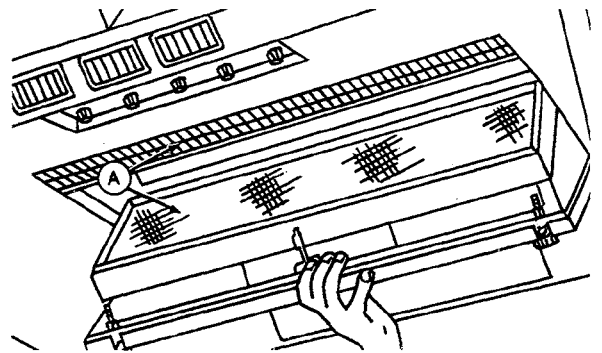
For an emergency exit, SOUND-GARD® body windows can be opened. Remove the quick-lock pins (A) and headed pins (B) from window latches, and push window wide open.



AJ7;RW4420 U01;SAX1 09 170583

HANDLE CHEMICALS PROPERLY

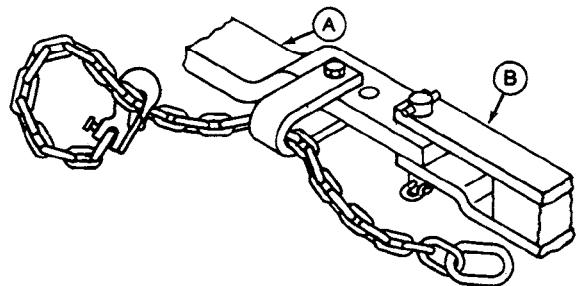
SOUND-GARD body air filters (A) are not designed to filter out harmful chemicals. Follow instructions given in the implement operator's manual and those given by the chemical manufacturer when using agricultural chemicals.



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USE A SAFETY CHAIN

A safety chain will help control drawn equipment (B) should it accidentally separate from the drawbar (A) while transporting. Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning. See your John Deere dealer for a chain with a strength rating greater than the gross weight of the towed machine.



AB6;TS163 053;SA A 120284

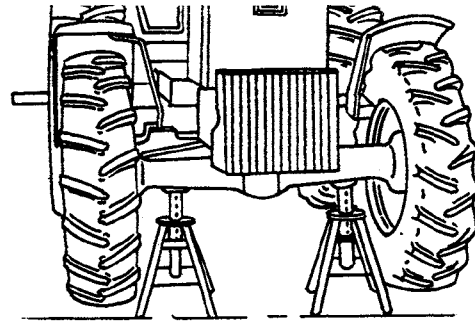
SERVICE TRACTOR SAFELY

Do not service the tractor while it is in motion or while the engine is running.

If servicing front-wheel drive equipped tractor with rear wheels supported off ground and rotating wheels by engine power, always support front wheels in a similar manner. If front wheels are not raised, loss of electrical power or transmission-hydraulic system pressure will engage front driving wheels and pull rear wheels off support. Under these conditions, the front-drive wheels can engage even with switch in disengaged position.

Reinstall all shields removed during service.

The air conditioning system is pressurized. Improper servicing may cause refrigerant to penetrate eyes and skin or cause burns. Special equipment and procedures are required to service air conditioning system. (See your John Deere dealer.)

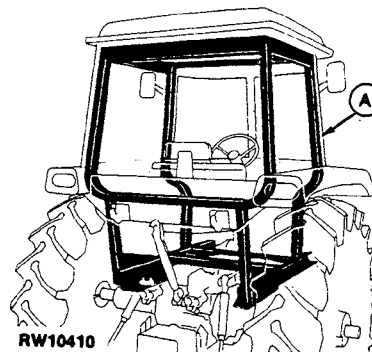


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DO NOT MODIFY TRACTOR

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

Never modify structural members of SOUND-GARD body or ROLL-GARD protective frame (A) by welding, bending, drilling or cutting as this might weaken the structure. If any structural member is damaged, replace the entire structure. Do not attempt repairs.



RW10410

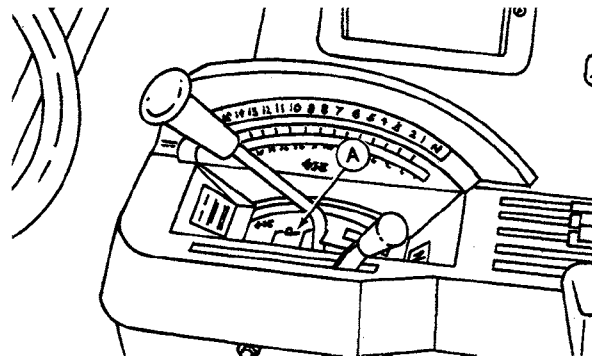
AJ7;RW10410 U01;SAX1 11 180484

AVOID TRACTOR RUNAWAY

Avoid possible injury or death from a machine runaway.

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

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



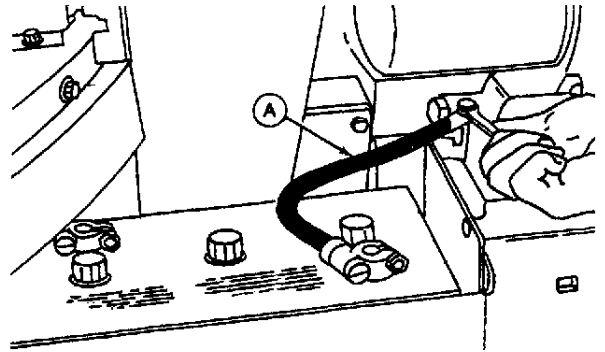
AJ7;RW5698L U01;SAX1 10 151283

AVOID EXPLOSIONS OR FIRE

Keep all sparks and flames away from batteries, as gas given off by electrolyte is explosive. To avoid sparks, connect ground cable (A) last and disconnect it first. When using a booster battery, follow instructions in Operating the Engine section.

Disconnect battery ground cable before working in an area where you might accidentally contact electrical components causing shocks, burns, or damage to electrical system.

Be careful with starting fluid or any type of fuel. Do not refuel the tractor when the engine is hot or running. Never smoke while handling fuel.



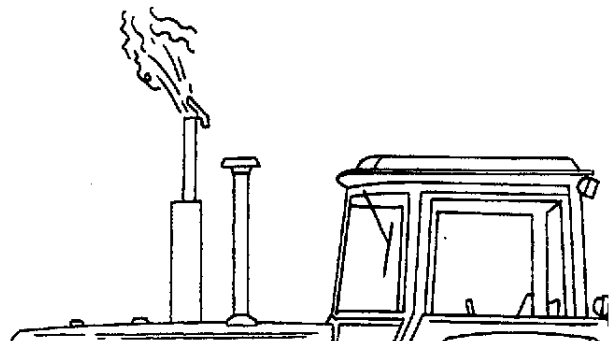
A fire extinguisher can be mounted to your tractor. It is available from your John Deere dealer. Be sure to see the owners manual packaged with the extinguisher for operation and service instructions.



AJ7;RW5701L,RW5895,RW2389 U01;SAX1 13 120184

AVOID EXHAUST FUMES

Never run engine in a closed building.



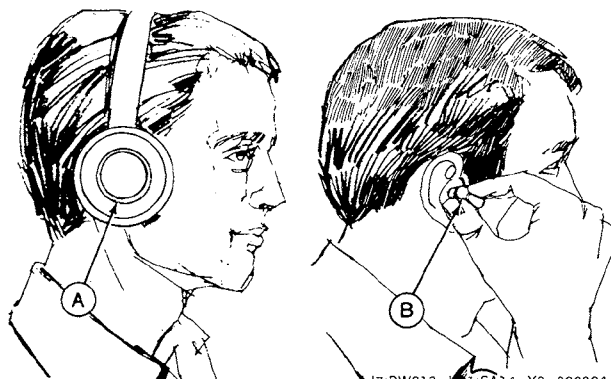
AJ7;RW5703L U01;SAX1 16 151282

PROTECT AGAINST NOISE

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



AJ7;RW213 U01;SA14 X2 290284

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 pin holes 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.

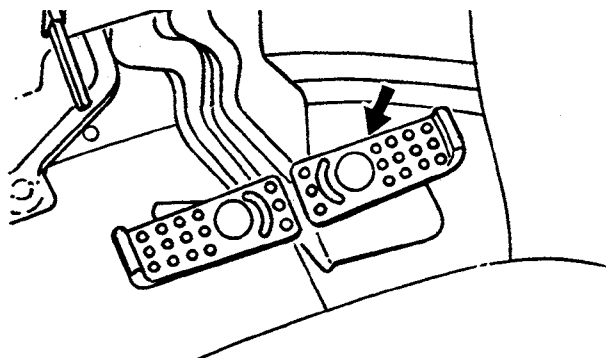


AJ7;X9811 U01;SA18 X2 150982

SERVICE BRAKE ACCUMULATOR SAFELY

Accumulator contains gas and oil under pressure. To avoid injury from escaping fluid, relieve all pressure from accumulator before disconnecting brake accumulator or brake valve. To do so open bleed screws and pump brake pedal with engine stopped, until pedal easily goes all the way down.

The accumulator is charged with dry nitrogen to a pressure of 500 psi (3450 kPa) (35 bar). If it needs recharging, have job done only by a qualified service person and only with dry nitrogen.



AJ7;RW8630L U01;SAX1 22 120184

PROTECT AGAINST NOISE

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



AJ7;RW213 U01;SA14 X2 290284

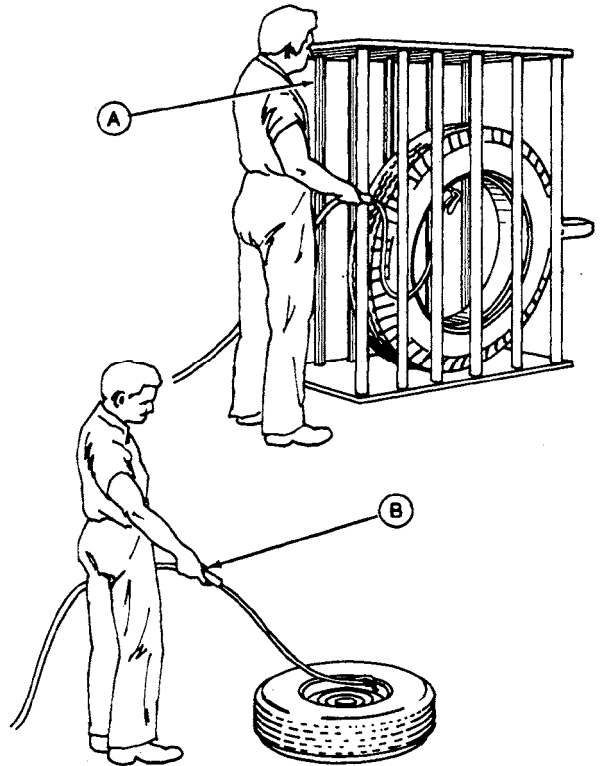
SERVICE TIRES SAFELY

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 repair service.

When sealing tire beads on rims, never exceed 35 psi (240 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 agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

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

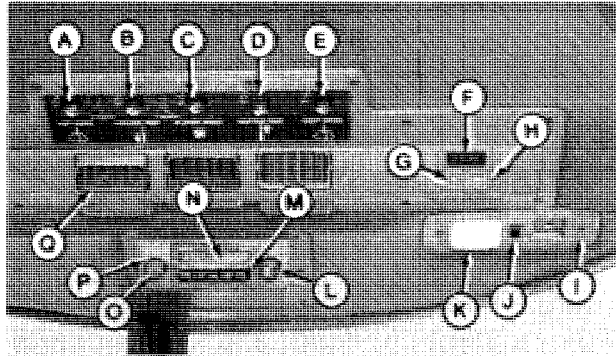


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Controls and Instruments

SOUND-GARD® BODY CONTROLS

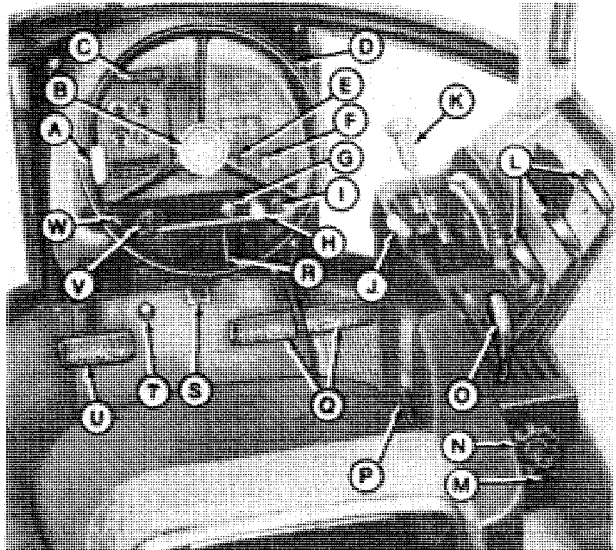
- | | |
|--|---------------------------------------|
| A—Left Wiper Switch | J—Dome Lamp Switch |
| B—Air Conditioning Temperature Control | K—Dome Lamp |
| C—Blower Switch | L—Radio Tuning Knob |
| D—Heater Temperature Control | M—Radio Tuning Push Buttons |
| E—Right Wiper Switch | N—AM/FM Selection Bar |
| F—Clock | O—Radio On-Off/Volume/Balance Control |
| G—Hour Set Touch Pad | P—Radio Tone Control |
| H—Minute Set Touch Pad | Q—Air Louver |
| I—Console Lamp | |



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TRACTOR CONTROLS

- | | |
|------------------------------------|---------------------------------|
| A—PTO Lever | M—Accessory Electrical Outlet |
| B—Steering Wheel Telescope Release | N—Rockshaft Depth Stop Knob |
| C—Turn Signal Control | O—Rockshaft Control Lever |
| D—Steering Wheel | P—Rockshaft Load Selector Lever |
| E—Lighter | Q—Brake Pedals |
| F—Front-Wheel Drive Control Switch | R—Steering Wheel Tilt Release |
| G—Key Switch | S—Differential Lock |
| H—Engine Stop Knob | T—Dimmer Switch |
| I—Horn Button | U—Clutch Pedal |
| J—Hand Throttle | V—Light Switch |
| K—Shift Lever | W—Starting Aid Button |
| L—Remote Cylinder Levers | |

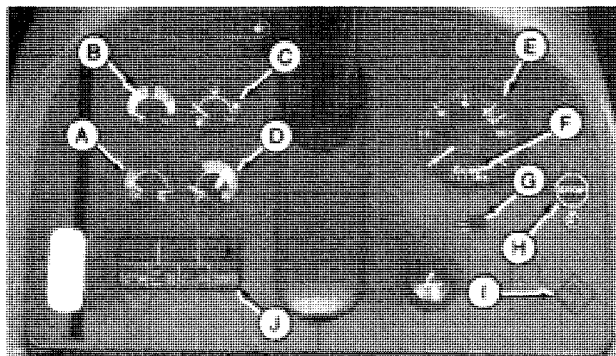


Tractor shown is equipped with Power-Shift Transmission, Mechanical Front-Wheel Drive (MFWD), INVESTIGATOR II™, and Digital Tachometer

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GAUGES AND INSTRUMENTS

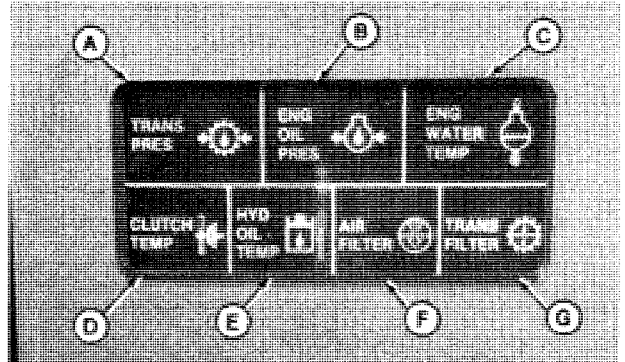
- | |
|--|
| A—Engine Oil Pressure Gauge |
| B—Voltmeter |
| C—Fuel Gauge |
| D—Engine Temperature Gauge |
| E—Tachometer Display |
| F—Hourmeter |
| G—Head Lamp Hi-Beam Indicator |
| H—Stop Engine Indicator |
| I—Service Alert Indicator |
| J—INVESTIGATOR II™ Warning Indicator Lamps |



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INVESTIGATOR II WARNING INDICATOR LAMPS

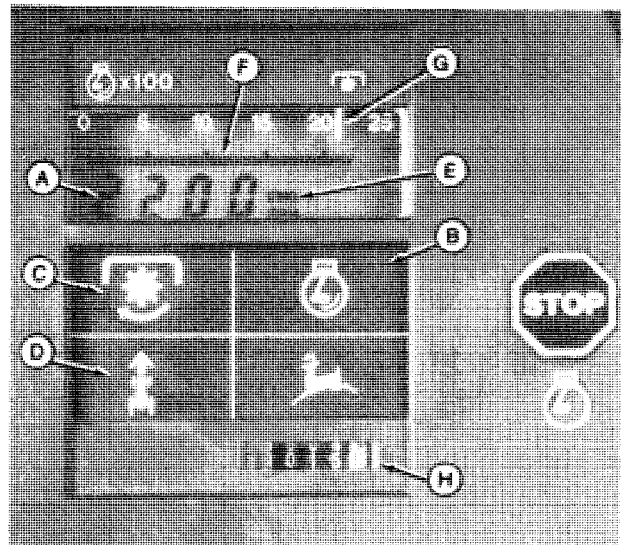
- A—Transmission Oil Pressure Indicator
- B—Engine Oil Pressure Indicator
- C—Engine Water Temperature Indicator
- D—Clutch Temperature Indicator
- E—Hydraulic Oil Temperature Indicator
- F—Air Filter Restriction Indicator
- G—Transmission Filter Restriction Indicator



AJ8;RW5709 U01;C1X1 04 250282

DIGITAL TACHOMETER (OPTIONAL)

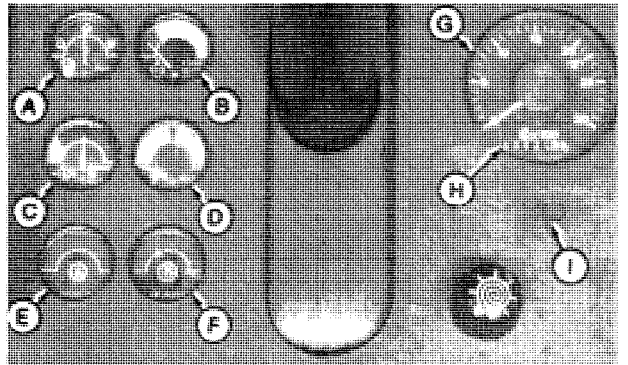
- A—Digital Display
- B—Engine RPM Touch Pad
- C—PTO RPM Touch Pad
- D—Travel Speed Touch Pad
- E—Display Identification
- F—Engine Speed Bar Graph
- G—Rated PTO RPM Mark
- H—Hourmeter



AJ8;RW8790 U01;C1X1 24 040483

GAUGES (Without INVESTIGATOR II Warning System)

- A—Fuel Gauge
- B—Engine Water Temperature Gauge
- C—Engine Oil Pressure Gauge
- D—Voltmeter
- E—Transmission Oil Indicator
- F—Air Filter Restriction Indicator
- G—Tachometer
- H—Hour Meter
- I—Head Lamp Hi-Beam Indicator



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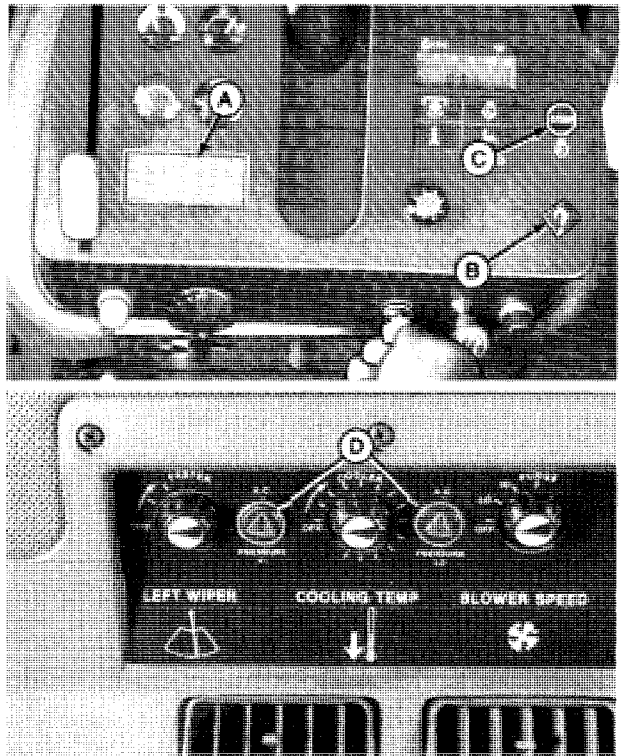
CHECK INSTRUMENTS OFTEN

IMPORTANT: See your John Deere dealer if any instrument malfunctions. Operate tractor only if all instruments work properly.

Leave key switch on while operating tractor so instruments will function. Form a habit of checking them often.

Check indicator lamps and audible warning signal each time engine is started. All INVESTIGATOR II warning indicator lamps (A), "Service Alert" (B), and red "Stop Engine" (C) signals should glow for 5 seconds when key switch is turned to first position. Audible warning tone should be heard for the first 2 seconds while lamps glow.

NOTE: If blower speed switch is on, air conditioner "Lo" and "Hi" pressure light (D) should glow 5 seconds for bulb check. (Also see *Adjusting Air Conditioning in Operator's Station* section).



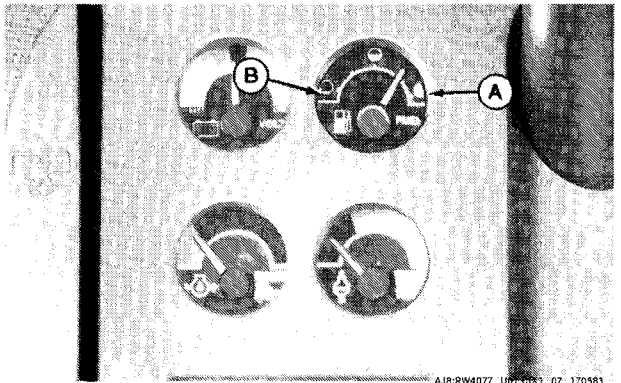
AJ8;RW4076,RW8604 U01;CIX1 06 18C583

WATCH FUEL LEVEL

Stop to refuel before fuel gauge (A) reaches empty mark (B).

Use diesel fuel specified in Fuels and Lubricants section.

Should tractor run out of fuel and not start in several tries, air must be bled from fuel system. (See *Bleeding Fuel Lines in Service* section.)

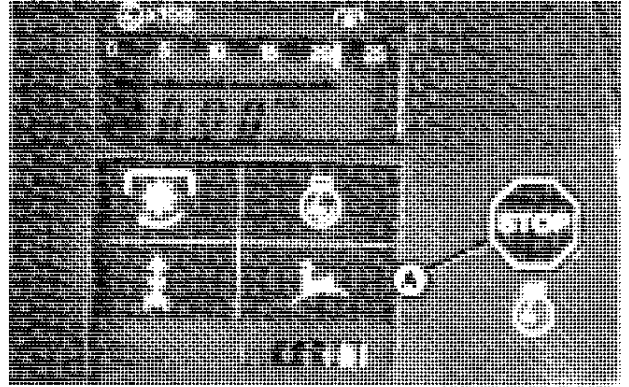


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OBEY "STOP ENGINE" SIGNAL

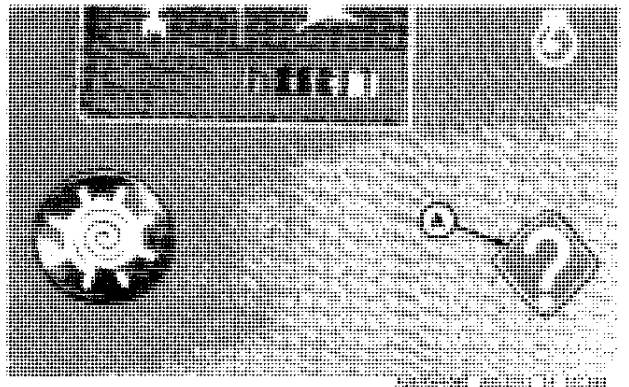
IMPORTANT: If the "Stop Engine" signal comes on, shut down the engine immediately and place transmission in park. Then determine and correct the cause.

A red "Stop Engine" signal (A) flashes whenever a vital tractor system malfunctions (such as cooling or lubrication). A steady, audible tone also accompanies this signal.



OBSERVE "SERVICE ALERT" SIGNAL

An amber "Service Alert" signal (A) glows when a problem develops which does not require immediate engine shut down. Observe gauges and indicator lamps for possible cause. A maintenance check or a change in tractor operation should be initiated as soon as possible. An audible "beep" on critical functions alerts the operator to a function that has reached a warning condition.



CHECK VOLTMETER

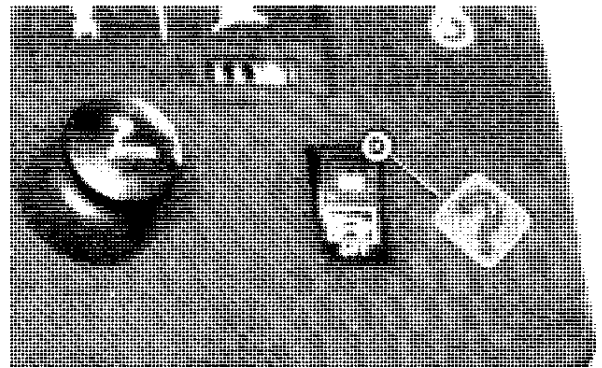
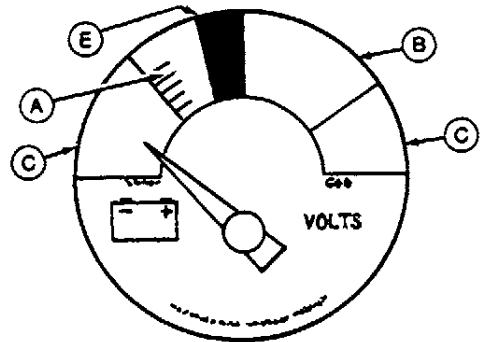
With key switch on and engine stopped, voltmeter should reach left-hand green band (A). If it does not, batteries are undercharged.

With engine running, needle should rise to right-hand green band (B) indicating batteries charging, system normal.

NOTE: When operating in warm ambient temperatures with batteries fully charged, it is normal for needle to run in black area (E).

If needle moves into either amber band (C), INVESTIGATOR II, "Service Alert" signal (D) will glow. If needle stays in either amber band, see your John Deere dealer.

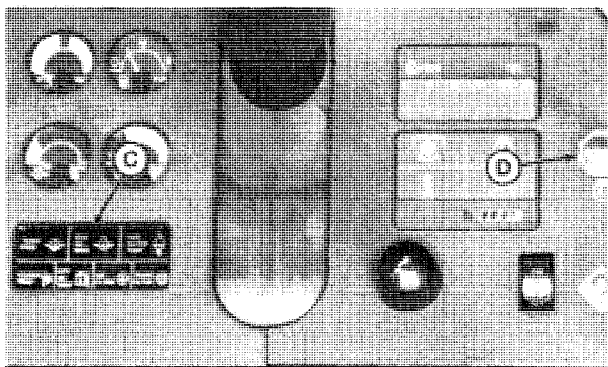
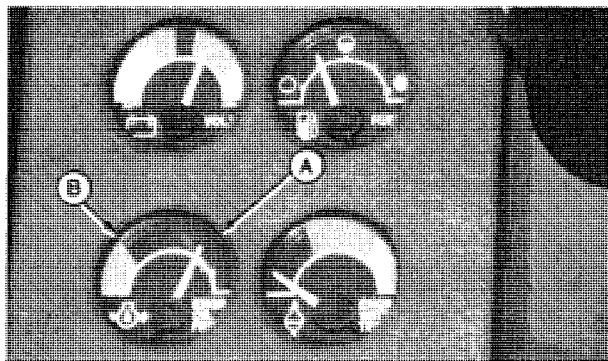
If needle moves to left-hand amber band, move tractor to service area before shutting off engine; it may not restart.



WATCH ENGINE OIL PRESSURE GAUGE

IMPORTANT: NEVER operate engine without sufficient oil pressure—not even for a minute.

If engine oil pressure falls too low, pressure gauge (A) needle drops into red zone (B), “ENG OIL PRES” indicator (C) will glow, “Stop Engine” signal (D) will flash, and warning horn will sound. Stop engine immediately and determine the cause. If low oil level is not the problem, see your John Deere dealer.



- A—Engine Oil Pressure Gauge
- B—Red Zone
- C—Engine Oil Pressure Indicator Light
- D—Stop Engine Signal

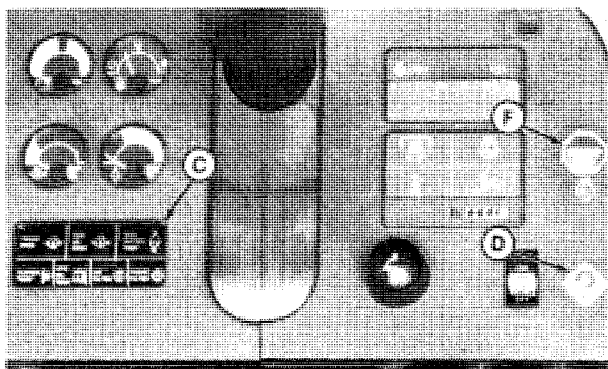
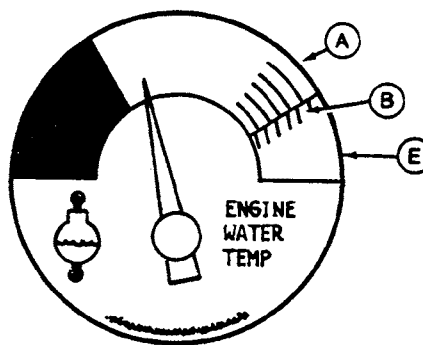
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CHECK ENGINE TEMPERATURE GAUGE

Green and green/white striped area (A) of temperature gauge represents the normal safe operating temperature. If gauge reaches red and white striped area (B), “ENG WATER TEMP” indicator (C) will glow, “Service Alert” signal (D) will come on.

Check grille screens and radiator for plugging. Check coolant level when engine cools down. Reduce load or shift to a lower gear.

If needle reaches solid red area (E), red “Stop Engine” signal (F) will flash and steady tone will sound. Stop engine immediately and determine the cause. (See Troubleshooting section.)



- A—Green and Green/White Striped Area
- B—Red and White Striped Area
- C—Engine Water Temperature Indicator
- D—Service Alert Signal
- E—Solid Red Area
- F—Stop Engine Signal

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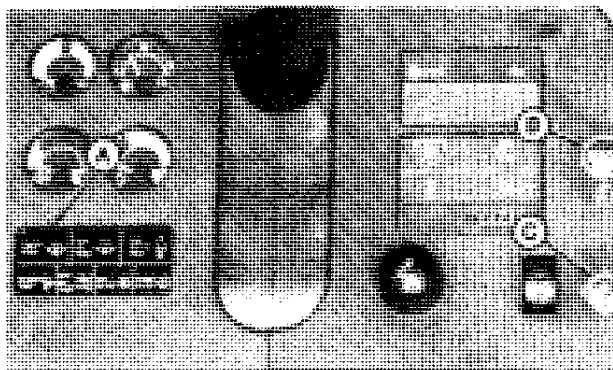
Thank you so much for reading

WATCH TRANSMISSION OIL PRESSURE INDICATOR

If transmission control pressure falls too low, "TRANS PRES" indicator (A) will glow, "Stop Engine" signal (B) will flash and warning horn will sound. Stop tractor and determine cause. If low transmission-hydraulic oil level is not the problem, see your John Deere dealer.

NOTE: If transmission hydraulic oil is cold (below 14°F (-10°C) "TRANS PRES" indicator and service alert signal (C) may glow. Warm transmission hydraulic oil before placing tractor under load. (See Transmission-Hydraulic System Warm-up in Operating the Engine section.)

When shifting, clutching or operating PTO, "TRAN PRES" light may flicker. This is normal.

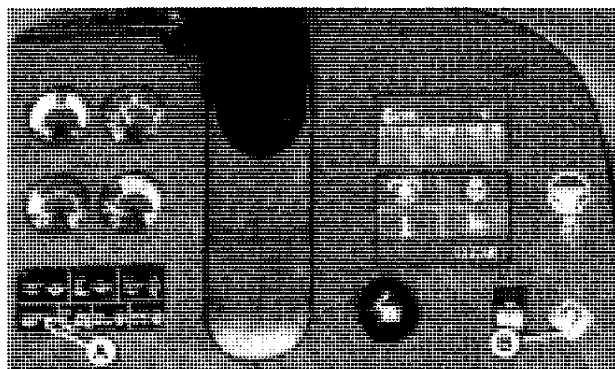


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WATCH CLUTCH TEMPERATURE INDICATOR

If clutch cooling oil temperature becomes excessive, "CLUTCH TEMP" (A) and "Service Alert" (B) signal will glow and warning horn beeps. Allow several minutes to cool clutch. Place transmission in park or neutral. With clutch pedal disengaged, run engine at 1000 to 1500 rpm. If warning persists, see your John Deere dealer.

IMPORTANT: High clutch oil temperatures are usually caused by excessive clutch slippage or pedal riding.



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