

John Deere

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MODEL:

6030

MANUAL PREVIEW

**OPERATOR'S
MANUAL**



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6030

Tractor

Operator's Manual

OM-R51901

Issue A2

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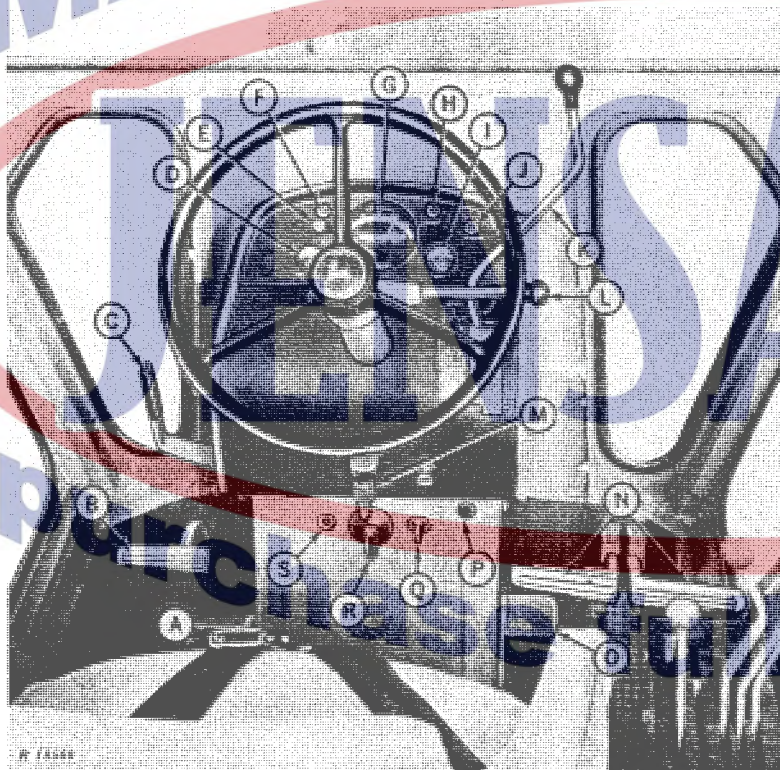
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Controls and Instruments

Before attempting to operate your new tractor, become familiar with the location and purpose of its controls and instruments. Additional information will be found on the page number following the control or instrument. Worldwide graphic symbols (see inside back cover) are used to assist identification and operation.



- A-Headlight Dimmer Switch (Page 20)
- B-Clutch Pedal (Page 3)
- C-PTO Clutch Operating Lever (Page 32)
- D-Coolant Temperature Gauge (Page 7)
- E-Speed Indicator Knob (Page 10)
- F-Alternator Indicator Lamp (Page 3)
- G-Speed-Hour Meter (Pages 10 and 38)
- H-Oil Pressure Indicator Lamp (Page 3)
- I-Fuel Gauge
- J-"Hi-Beam" Indicator Lamp (Page 20)
- K-Gear Shift Lever (Page 10)
- L-Hand Throttle (Page 6)
- M-Ether Starting Fluid Adapter (Page 4)
- N-Brake Pedals (Page 11)
- O-Foot Throttle (Page 6)
- P-Engine Stop Knob (Page 3)
- Q-Key Switch (Page 3)
- R-Light Switch (Pages 19 and 20)
- S-Air Cleaner Indicator Light (Pages 3 and 40)



- AA — Differential Lock Operating Pedal (Page 11)
- BB — Rockshaft Selector Lever (Page 23)
- CC — Remote Cylinder Operating Levers (Page 28)
- DD — Rockshaft Control Lever (Page 22)
- EE — Seat Controls (Page 9)

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4 Operation - Engine

(4) Depress the clutch pedal to decrease drag on the engine and turn the key switch all the way to the right to start the engine. Do not operate the starter for more than 30 seconds at a time. To do so may overheat the starter. If the engine does not start the first time, wait for a minute or two before trying again. If it does not start after four attempts, see "Trouble Shooting."

Before the starter will operate, the shift lever must be in neutral or "PARK."

If the key switch is released before the engine starts, wait until the starter and the engine stop before trying again. This will prevent possible damage to the starter.

To obtain prompt engine starting after the engine is killed or starts and then stops, repeat the engine stop and start cycle. (a) Pull the engine stop knob out and push it all the way in. (b) Move the hand throttle to the 1000 rpm position.

(5) After the engine starts, the indicator lights should go out. If a light continues to glow when the engine is running, stop the engine and determine the cause.

After starting the engine, do not accelerate or apply a load until the engine oil pressure indicator light goes out. In cold weather or after the engine has been idle for several weeks, idle the engine for several minutes at speeds below 1000 rpm to insure turbocharger lubrication before accelerating or applying a load.

Should the engine be killed when operating under load, immediately restart the engine to prevent overheating of turbocharger parts, caused when the flow of oil for cooling and lubrication is stopped.

When starting the engine after the tractor has been in storage, pull the engine stop knob all the way out. Crank the engine with the starter until the engine oil pressure indicator light goes out. Do not operate the starter more than 30 seconds at a time. After the indicator light goes out, start the engine.

COLD WEATHER STARTING AIDS

For cold weather starting, the tractor may be equipped with starting aids, either factory-installed or available from your John Deere dealer.

These aids are effective at low temperatures, only when the engine is otherwise operating satisfactorily. They will not correct such deficiencies as low battery charge, crankcase oil of heavy viscosity, and high electrical resistance which may prevent the engine from starting.

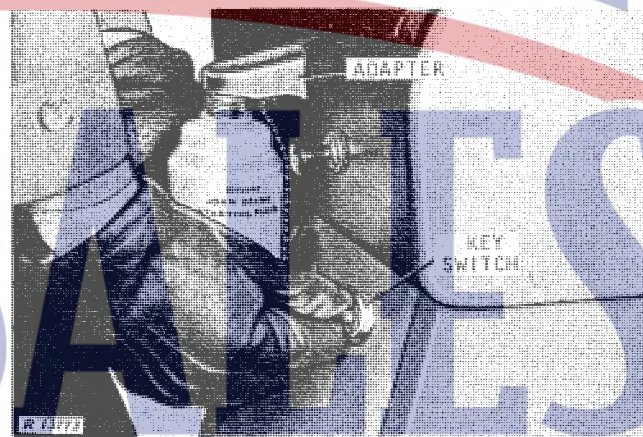
Always use No. 1 diesel fuel at temperatures below 40°F.

Starting Fluid Adapter

This adapter is used to inject atomized starting fluid into the engine air intake system. Pressurized cans of starting fluid are available from your John Deere dealer.



CAUTION: Ether starting fluid is highly flammable. Do not use near fire, sparks, or flames. Read the cautionary information on the container.



Injecting Starting Fluid

To use the can of starting fluid, remove the safety cap and plastic spray button from the can. Remove the cap from the adapter and position the can under the adapter.

To inject a "shot" of starting fluid, momentarily push up on the can.

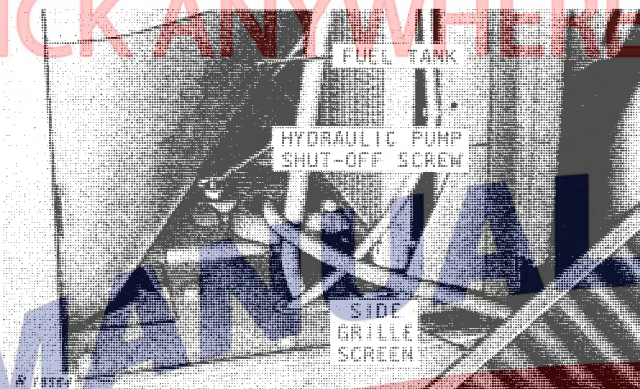
IMPORTANT: To avoid damage, turn engine with starter one or two revolutions before injecting starting fluid. Inject starting fluid only while the engine is turning.

Relax pressure on the can between "shots" of starting fluid. Stop injecting fluid after the engine starts. If the engine begins to die during the first few minutes of operation, inject another "shot" of fluid. When the engine is operating satisfactorily, remove the can from the adapter. Replace the safety cap on the can to avoid accidental discharge.

Install the cap on the adapter when it is not in use. This will prevent dust from being drawn into the engine.

Store starting fluid in a cool, dry, and protected area to prevent accidental discharge. Keep the starting fluid away from extreme heat or cold.

Hydraulic Pump Shut-Off



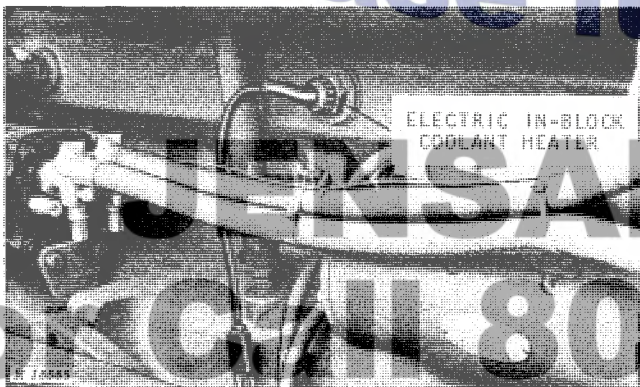
Hydraulic Pump Shut-Off Screw

If the hydraulic pump has a shut-off screw (available from your dealer), the starter speed may be increased during cold weather by shutting off the hydraulic pump so it will not build up pressure. To do so, turn the shut-off screw located on top of the pump in (clockwise) one turn with a screwdriver. Then turn the screw in by hand until resistance is felt. Turn the screw in one more turn.

After the engine has started, use a screwdriver to back the shut-off screw out against the internal stop (turn the screw counterclockwise). The pump will now build up pressure.

NOTE: Oil will leak past the shut-off screw if it is not backed all the way out against the internal stop.

Electric Coolant Heater



Electric In-Block Coolant Heater

To facilitate cold weather starting, a 115-volt electrical in-block coolant heater is available from your John Deere dealer.

The in-block coolant heater is a 1000-watt unit that is on the left-hand side of the engine.

CAUTION: To avoid shock or hazardous operation, always use a three-wire heavy-duty electrical cord equipped with three-wire connectors. If a two-to-three contact adapter is used at the wall receptacle, always connect the green wire to a good ground.

The use of the heater will reduce drag on the engine to improve starting.

Under normal conditions, up to 5 hours may be required at temperatures between 0°F. and 20°F. or up to 8 hours for temperatures below 0°F.

Additional Battery

Cold weather starting can be made easier by connecting an additional 12-volt battery in parallel with the two 6-volt batteries on the tractor.

CAUTION: Gas given off by batteries is explosive. To avoid injury or battery damage, avoid sparks near the batteries.

Make sure all electrical switches or accessories are turned off. Make the last connection or the first disconnection at the starter end frame terminal.

IMPORTANT: To prevent damage to the electrical system ground wire, never connect a booster battery to the tractor frame. To prevent damage to the alternator or electrical system, be sure to connect the batteries in proper polarity.

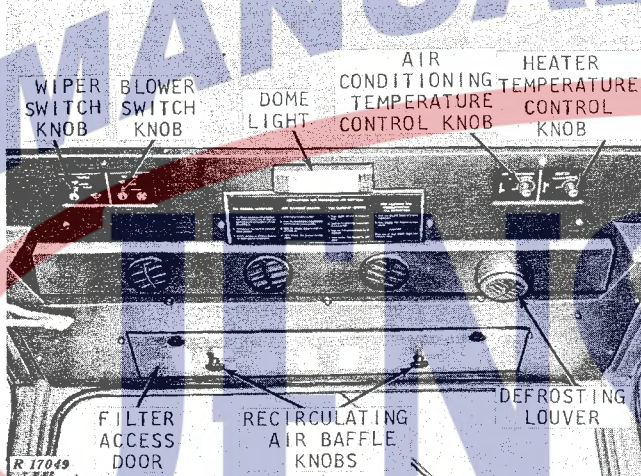
Connect a jumper cable of 000 size to the positive (+) post of a 12-volt booster battery and to the tractor battery POSITIVE (+) post that is connected to the starter. Connect one end of the other jumper cable to the negative post of the booster battery and the other end to the terminal on the starter end frame. Do not connect jumper cables to tractor frame.

OPERATING THE TRACTOR



CAUTION: The cab air filters are not designed to filter out harmful chemicals. When using agricultural chemicals, follow the instructions given in the implement operator's manual and those given by the chemical manufacturer.

CAB CONTROLS



Air Conditioned Cab Controls

Recirculating Air Baffle

When the recirculating air baffle is moved to the left, only filtered outside air enters the blower to provide maximum pressurization of the cab. This is the normal operating position.

Loosening the knobs and moving them to the right opens the recirculating air baffle allowing the air inside the cab to recirculate and mix with a small amount of incoming outside air. In the recirculating position, the air conditioner will maintain a lower cab temperature or the heater will maintain a higher cab temperature.

The baffle may be opened to an intermediate position to mix more outside air with inside air and maintain more cab pressure.

Blower Switch

To maintain a clean atmosphere within the cab when operating the tractor, run the blower continuously with the doors and windows closed. To obtain low fan speed, turn the blower switch knob clockwise to the first position. For high fan speed, turn the switch clockwise as far as it will go. Turn the switch counterclockwise to shut the fan off.

Rotate the louvers to control the direction of air flow. The right-hand louver can be adjusted to defrost the windshield.

Heater Temperature Control Knob

The cab may have a cab heater that is connected to the tractor engine cooling system. Coolant flow through the heater core is controlled by the heater temperature control knob. Adjust the volume of air flow with the blower switch.

To obtain maximum heat, turn the heater control knob all the way clockwise. Turn the knob counterclockwise to reduce the temperature. Turning the knob all the way counterclockwise shuts the heater off.

Air Conditioning Temperature Control Knob

On cabs with air conditioning, the air conditioning temperature control knob turns the air conditioning system on and controls the cooling temperature in the cab. For maximum cooling, turn the knob all the way clockwise. For less cooling, turn the knob counterclockwise.

Normal Cooling

Under normal conditions, move the air baffle control knob to the left for outside air. Turn the blower switch all the way clockwise for maximum blower speed and regulate the cab temperature by turning the temperature control knob.

Maximum Cooling

For high humidity, high temperature operating conditions, maximum cooling can be obtained by setting the air control knob to the right to recirculate the air in the cab.

Humidity Control

Turning the heater on when operating the air conditioner will help control humidity. However, under normal conditions the heater temperature knob should be turned off when operating the air conditioner.

The blower switch must be turned on before the air conditioning system will operate.

Wiper Switch

To obtain low wiper speed, turn the knob clockwise to the first position. For fast wiper speed, turn the knob all the way clockwise. The wiper blade returns to a park position when the switch is turned counterclockwise to the off position.

ROLL-GARD AND SEAT BELT

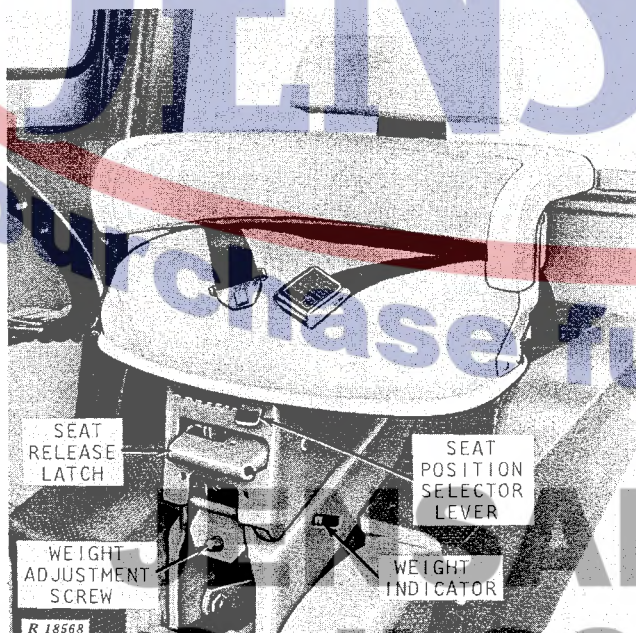
Your tractor may be equipped with a protective Roll-Gard, a Roll-Gard with canopy, or a Roll-Gard cab. Seat belts are furnished with a Roll-Gard assembly. See page 59 for additional information.



CAUTION: Under almost all operating conditions:

1. The use of a seat belt with the optional John Deere Roll-Gard is recommended.
2. Its use without roll-over protective equipment is not recommended.

SEAT



Seat Controls

The deluxe tractor seat has a steel compression spring and shock absorber to provide "float ride" suspension. The seat is also equipped with a flexibly mounted padded backrest and semicircular foam padding which surrounds the operator.

Use only warm water and mild soap to clean the seat cushions. Never use stronger solvents.

Moving Seat to Upper, Rear Position

To move the seat up and back, stand up and lift the seat release latch. The seat will move automatically to the upper rear position. Sit down to return the seat to the normal preset operating position.

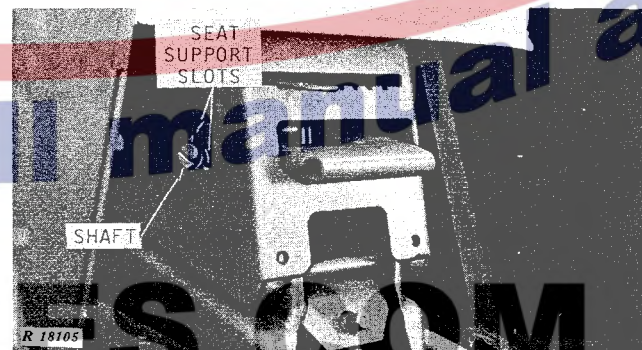
Adjusting For Weight Of Operator

You can adjust the tension of the steel compression spring of the seat to conform to your weight. This enables the seat to "float" when the tractor is driven over rough ground. To make this adjustment, turn the weight adjusting screw clockwise or counterclockwise until the indicator on the left-hand side of the seat conforms to your weight.

Adjusting For Height Of Operator

The normal operating position of the seat can be suited to the height of the individual operator. To make this adjustment, first move the seat to the upper, rear position. Then shift the seat position selector lever between "short" and "tall" until the pedals and levers can be operated comfortably when you are seated. The seat will always return to this position when you sit down after having moved the seat up and to the rear.

Adjusting Counterbalance Spring



Counterbalance Shaft

If the seat does not move fully to the rear when unlatched, adjust the counterbalance spring as follows. Push the seat to the upper, rear position. Insert a screwdriver in the slot in the counterbalance shaft and push in on the screwdriver to unlatch the shaft. Turn the shaft counterclockwise until seat action is satisfactory. Line up the latch across the end of the shaft with one of the pairs of slots in the side of the seat support and release pressure on the screwdriver.

SELECTING GROUND SPEED

The tractor has eight forward speeds and two reverse speeds for each of the throttle positions that may be used. These combinations enable the operator to balance speed and power for maximum economy and allow him flexibility to meet varying working conditions. For example, for a given ground speed the operator may choose to work in a low gear at high engine speed for maximum reserve power or in a higher gear at a lower engine speed for maximum fuel economy.

Examples of the ground speeds at which the tractor will travel are shown below. Engine working speeds may be varied between 1500 rpm and 2100 rpm. Tractor ground speeds shown in the chart are only for engine speeds of 1500 and 2100 rpm.

Turn the speed indicator knob on the instrument panel until the gear selected shows on the speed indicator. The speed-hour meter pointer will now indicate the tractor ground speed in miles per hour.

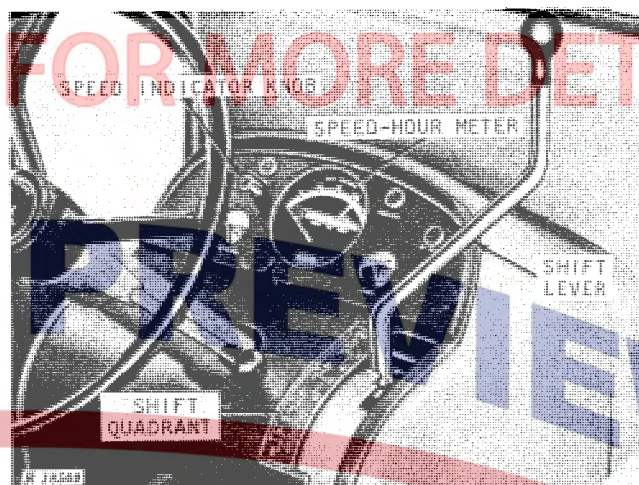
Avoid overloading the tractor. When this occurs, operate in a lower gear. If moving the throttle slightly will change engine speed, the engine is not overloaded or lugging. Overloading causes undue strain on parts, eventually resulting in poor operation and unnecessary repair and expense.

NOTE: The ground speeds are for 18.4-38 or 24.5-32 rear tires with a loaded radius of 31.6 inches. The 20.8-38 tires are 4 percent faster and 30.5-32 tires are 3 percent faster.

TRACTOR GROUND SPEED IN MILES PER HOUR

Gear	1500 Engine rpm	* 2100 Engine rpm
1st	1.4	2.0
2nd	2.2	3.1
3rd	3.1	4.3
4th	3.8	5.3
5th	4.7	6.6
6th	6.2	8.7
7th	8.0	11.2
8th	13.2	18.5
1st reverse	3.4	4.7
2nd reverse	5.2	7.3

* 2100 engine rpm gives the ASAE standard 1000 rpm PTO speed. Some PTO-driven implements are operated at other speeds. See the implement operator's manual for detailed instructions.



Speed Indicator Knob and Shift Lever

SYNCRANGE TRANSMISSION

Shifting Between Stations

The shift quadrant has four shift stations. Stations No. 1 and 2 have two forward speeds and one reverse speed. Stations No. 3 and 4 have two forward speeds only.

With the tractor stopped and the clutch pedal depressed, move the shift lever to a neutral position at the left side of the quadrant. Then move the shift lever to the station that has the desired speed. Move the lever to the right and into the speed desired.

Gradually release the clutch pedal to take up the load smoothly.

To prevent unnecessary wear, never "ride" the clutch or brake pedals by resting the feet on the pedals.



Gear Shift Stations

Shifting Within Stations

With the clutch pedal depressed, the transmission can be shifted from one forward speed to the other forward speed within the same station while the tractor is in motion. For instance, you can shift between 1st and 3rd gears, 2nd and 5th gears, 4th and 7th gears, and 6th and 8th gears without stopping the tractor.

The tractor may be shifted into a reverse gear in the No. 1 and the No. 2 shift stations.

IMPORTANT: Stop tractor before shifting from a forward speed to a reverse speed to prevent damage to the transmission.

PARKING THE TRACTOR

When the tractor is stopped for parking, for holding it on an incline, or for holding it during PTO work, move the shift lever as far as it will go forward from neutral to the "PARK" position. To shift from "PARK," move the shift lever rearward to the station desired.

IMPORTANT: Be sure the tractor is stopped before placing the shift lever in the "PARK" position.

TOWING THE TRACTOR

CAUTION: Never tow the tractor at high speeds. Tow the tractor with the engine running to maintain power operation of steering and brakes.

When towing the tractor, the transmission-hydraulic system should be at the "FULL" mark. If the front end is raised, add one gallon of oil for each six inches the front end is raised. Be sure differential lock is disengaged.

IMPORTANT: Always place the shift lever in "TOW." Do not attach towing means to front wheel knuckles or steering mechanism.

DIFFERENTIAL LOCK

Your tractor may be equipped with a differential lock that will turn both rear wheels at the same speed. This prevents the usual loss of power when one wheel is slipping.

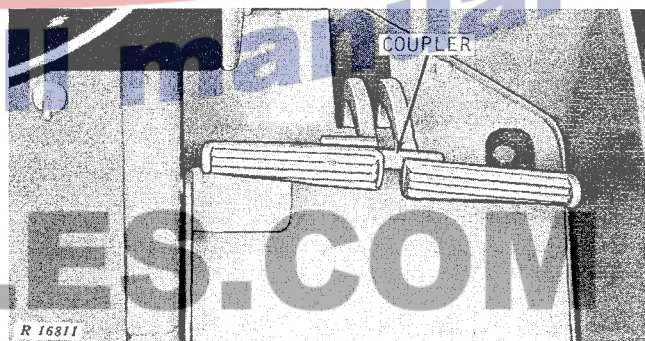


Differential Lock Operating Pedal

When one wheel starts to slip or whenever desired, engage the differential lock by depressing the operating pedal located at the right-rear side of the platform. When no longer required and before turning the tractor, disengage the differential lock by depressing one or both brake pedals. The front wheels should be in the straight ahead position when engaging or disengaging the differential lock.

CAUTION: Do not operate the tractor at high speeds or attempt to turn the tractor with the differential lock engaged.

POWER STEERING AND BRAKES



Brake Pedals Coupled Together

The tractor is equipped with full hydraulic power steering and power brakes so that a minimum of effort is required to operate the tractor.

The brake accumulator provides pressure oil to the brakes for several brake applications after the tractor engine is stopped.