

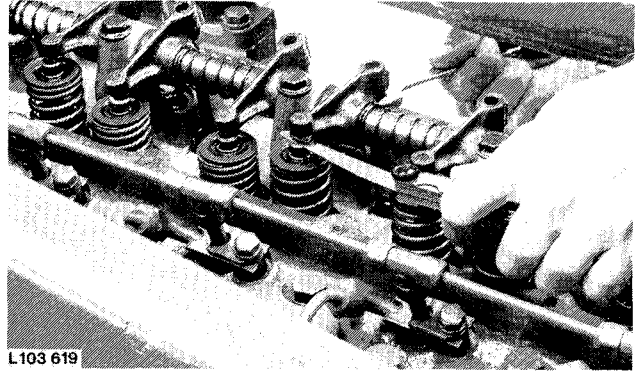
CHECKING VALVE CLEARANCE

Check valve clearance using a feeler gauge.

Valve clearance (with engine cold or warm):

- Intake valve: 0.35 mm (0.014 in.)
- Exhaust valve: 0.45 mm (0.018 in.)

If required, readjust valve clearance.



L103 619

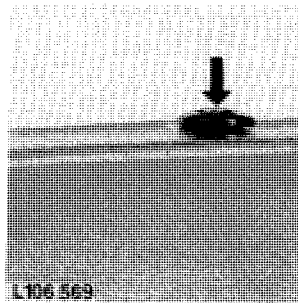
L103619-LB21010AE-010886

CHECKING COOLANT LEVEL

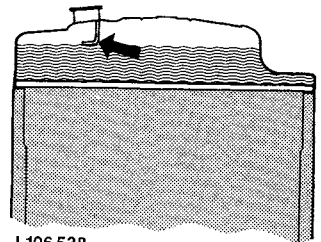
Up to Tractor Serial No. 621 999 L:

Coolant must reach up to marker plate in radiator.

If necessary, add coolant. See Group 15.



L106 569



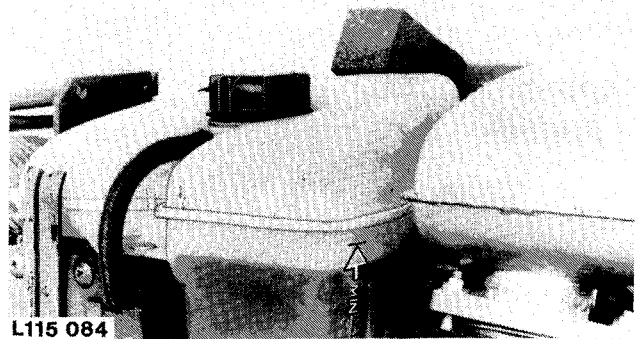
L106 538

L106569,L106538-LB41010AE-010687

From Tractor Serial No. 622 000 L:

Level of coolant should not be below the mark "MIN".

If necessary, add coolant. See Group 15.



L115 084

L115084-LB81010AE-010489

CHECKING ENGINE IDLE SPEEDS

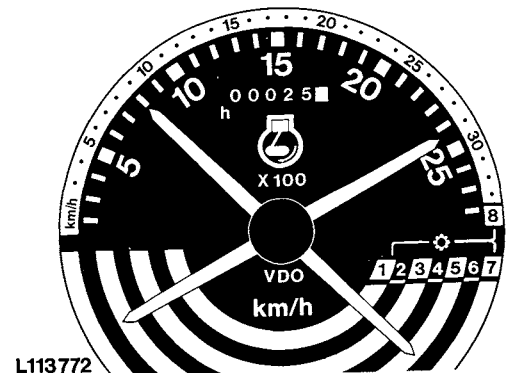
Tractors with Synchronized Transmission

Warm up engine to operating temperature and check speeds.

Slow idle speed: 750 to 850 rpm

Fast idle speed : 2410 to 2510 rpm

See Section 30, Group 15, for adjustment.



L113772

L113772-LB31010AE-010287

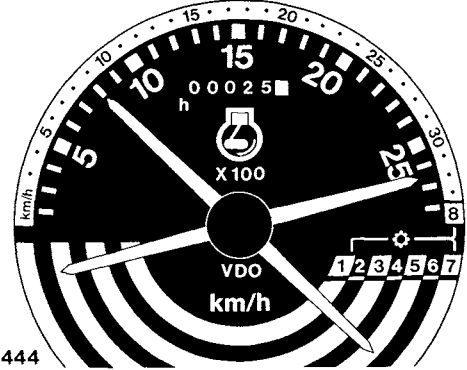
Tractors with Collar Shift Transmission

Warm up engine to operating temperature and check speeds.

Slow idle speed: 750 to 850 rpm

Fast idle speed: 2610 to 2660 rpm

See Section 30, Group 15, for adjustment.



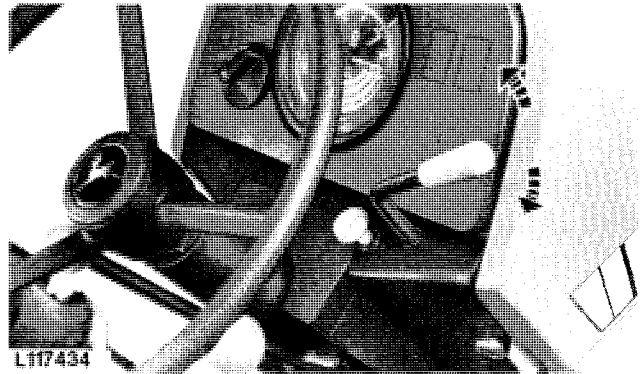
L113 444

L113444-LB31010AE-010287

CHECKING FUNCTION OF HAND THROTTLE LEVER

Check function of hand throttle lever.

See Section 30, Group 15, in the event of malfunctions.



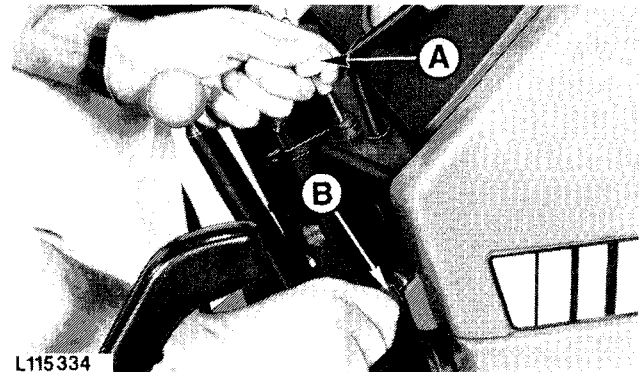
L117 434

L117434-LB81010AE-010787

CHECKING FUNCTION OF ENGINE SHUT-OFF CABLE

Run engine for 1 to 2 minutes at slow idle speed.

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



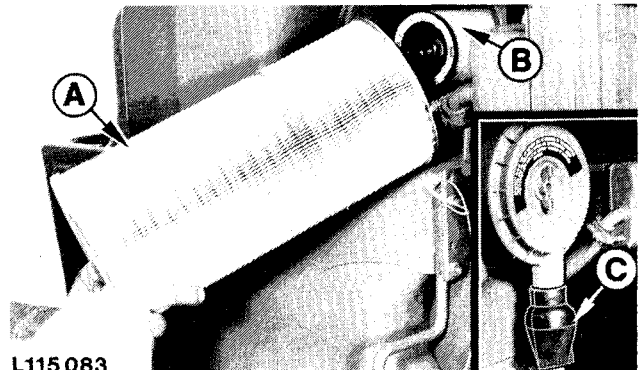
L115 334

L115334-LB81010AE-010787

CHECKING AIR CLEANER AND SAFETY ELEMENTS FOR CORRECT INSTALLATION

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

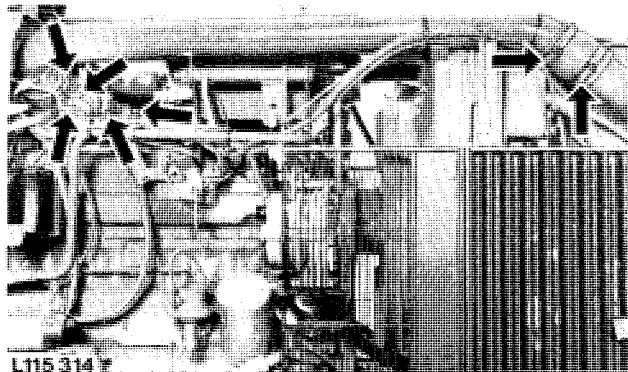
- A-Air cleaner element
- B-Safety element
- C-Dust unloading valve



L115 083

L115083-LB41010AE-010687

CHECKING HOSE CLAMPS OF AIR INTAKE SYSTEM FOR TIGHTNESS



L115 314

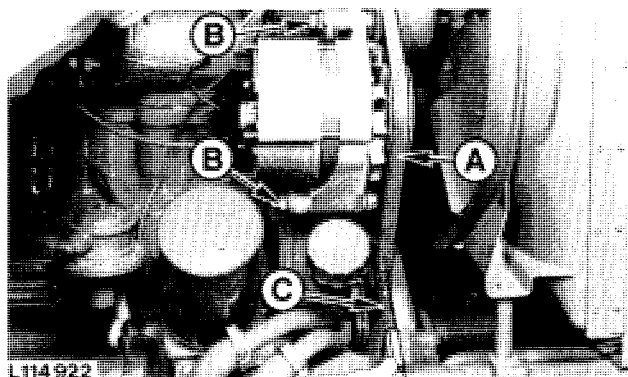
L115314-LB71010AE-010487

CHECKING FAN BELT TENSION

Using belt tension gauge JDST-28 (C) check tension of fan belt.

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

- A-Fan belt
- B-Attaching nut
- C-Belt tension gauge (JDST-28)



L114 922

L114922-LB21010AE-010886

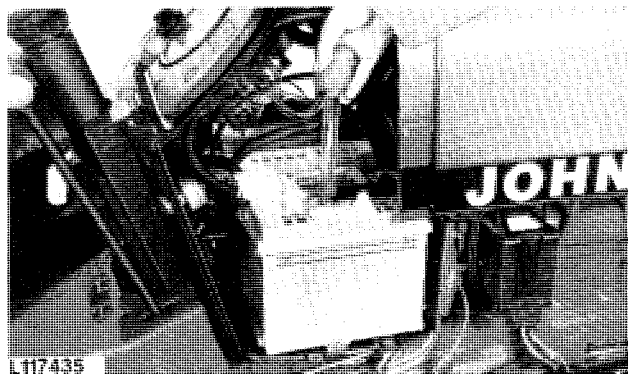
CHECKING BATTERIES

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

Check specific gravity of battery cells. At an electrolyte temperature of 20° C (68° F), a fully charged battery should have a specific gravity of 1.28 under normal and arctic conditions and 1.23 in tropical areas.

Check electrolyte level in each battery cell. Add distilled water if necessary to bring level above cell plates.

Charge batteries if they are not fully charged. Remove filler caps before charging the battery.



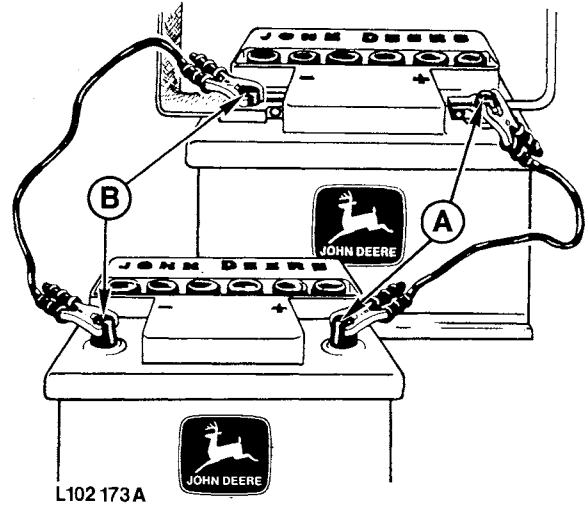
L117435

L117435-LB81010AE-010787

IMPORTANT NOTES

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

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



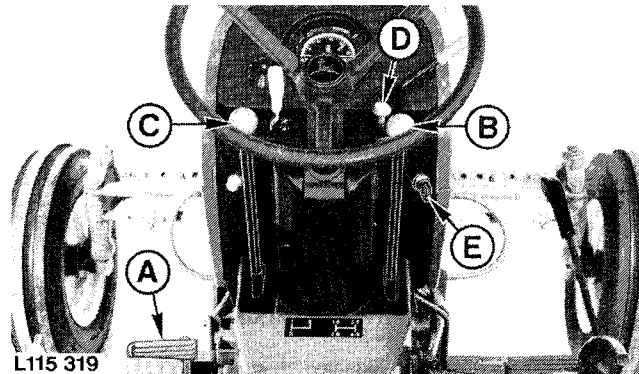
A—Positive terminals
B—Negative terminals

L102173A-LB81010AE-010787

CHECKING NEUTRAL START SYSTEM

Depress clutch pedal (A).
Move gear shift lever (B) to neutral position.
Move range shift lever (C) to any range position.
Pull out engine shut-off knob (D).
Turn main switch (E) to start position.
Starter should NOT crank.

A—Clutch pedal
B—Gear shift lever
C—Range shift lever
D—Engine shut-off knob
E—Main switch

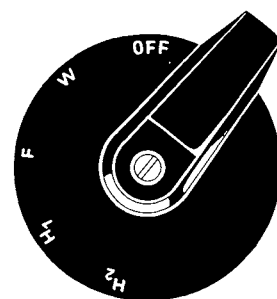


L115319-LB81010AE-010787

CHECKING LIGHTING SYSTEM

See Operator's Manual.

Check adjustment of headlights and adjust, when necessary.



L 117 815

L117815-LB81010AE-010787

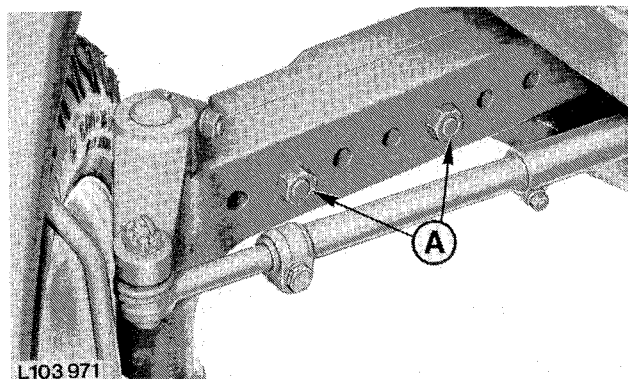
CHECKING INSTRUMENTS AND INDICATOR LIGHTS

See Operator's Manual.

INSPEK-LB21010FE-010886

CHECKING TORQUE OF ADJUSTABLE FRONT AXLE BOLTS (When Equipped)

Tighten axle bolts (A) to 400 Nm (300 ft-lb).

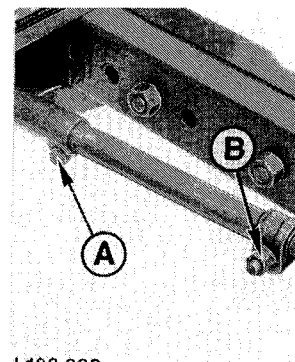


L103 971

L103971-LB41010AE-010687

CHECKING TIE ROD BOLTS (Tractors without Front Wheel Drive)

Tighten clamping screws (A) to 55 Nm (40 ft-lb) and clamping screw (B) to 90 Nm (65 ft-lb).

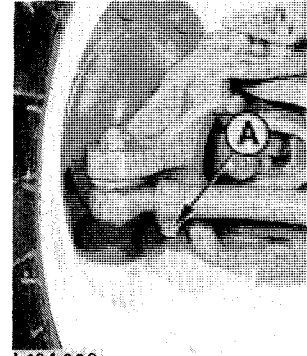


L103 992

L103992-LB41010AE-010389

CHECKING TIE ROD BOLTS (Tractors with Front Wheel Drive)

Tighten clamping screws (A) to 55 Nm (40 ft-lb) and clamping screw (B) to 90 Nm (65 ft-lb).



L104 609

L104609-LB41010AE-010389

CHECKING TRANSMISSION/HYDRAULIC SYSTEM OIL LEVEL

IMPORTANT: Check oil level when oil is cold.

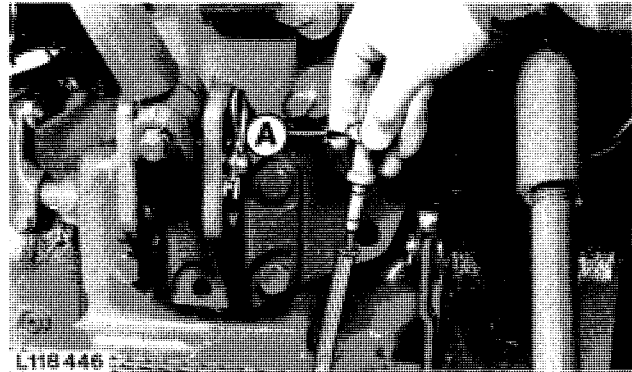
Park tractor on level ground. Completely lower rock-shaft. Remove dipstick (A) and wipe clean. Reinsert dipstick, again remove and check oil level.

NOTE: If oil level is below top mark, top up with oil to bring level up to top mark on dipstick through filler neck (B).

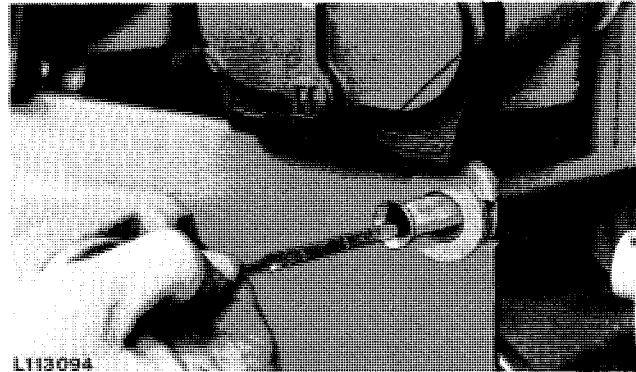
IMPORTANT: After having topped up transmission with oil, wait for a period of five minutes before rechecking oil level with dipstick.

If necessary, add JOHN DEERE Hy-Gard transmission and hydraulic oil or equivalent (see Group 15) to bring oil level to top mark on dipstick.

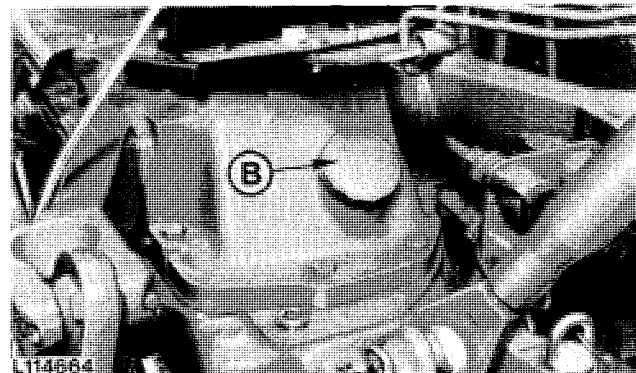
NOTE: Types of oil not meeting our specifications will not give satisfactory service and may result in damage.



L118 446



L113094



L114664

L118446.L113094.L114664-LB41010AE-010389

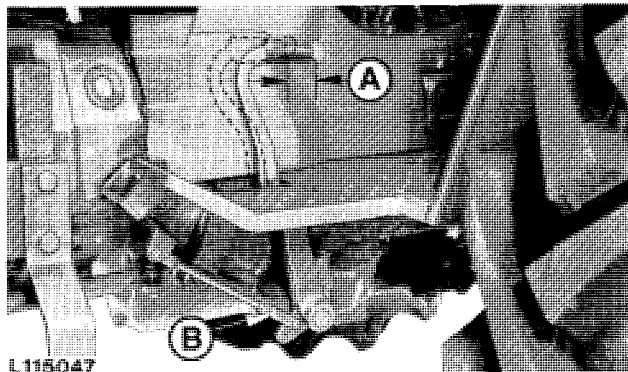
CHECKING CLUTCH PEDAL FREE TRAVEL

Tractors Without Reverser Transmission

Clutch pedal free travel (A) should be 25 mm (1 in.).

If necessary, adjust clutch pedal free travel by turning yoke (B).

IMPORTANT: Clutch pedal free travel should never be less than 13 mm (approx. 1/2 in.). Should clutch pedal free travel be less than specified minimum, do not operate tractor until travel has been adjusted to specifications.



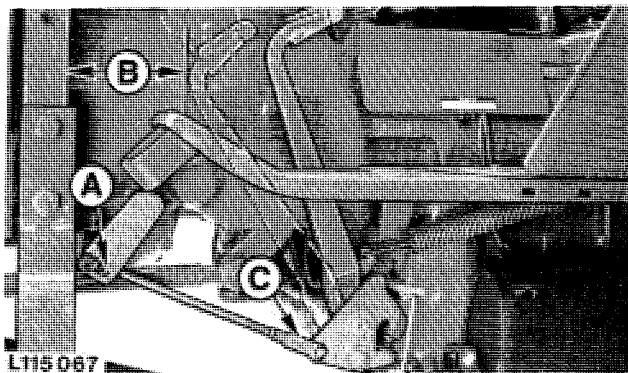
L115047-LB81010AE-010787

Tractors With Reverser Transmission

Push clutch pedal down until operating rod is positioned in rear of slot (A) in clutch shaft arm.

There should be 133 mm (5-1/4 in.) between engine mounting flange and rear of clutch pedal pad (B).

If necessary, adjust clutch pedal free travel by turning yoke (C).

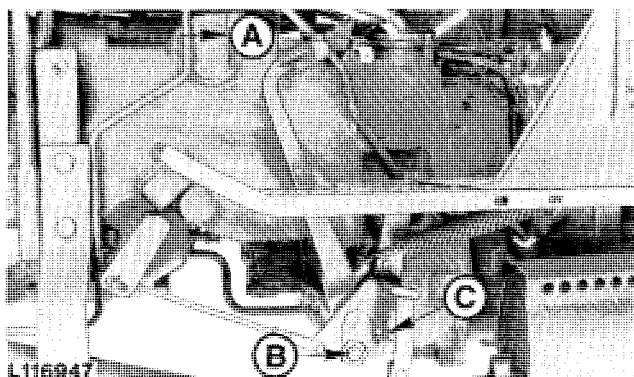


L115067-LB71010AE-010487

Pedal free travel (A) to shift reverser transmission should be 19 to 32 mm (3/4 to 1-1/4 in.).

If necessary, adjust pedal free travel by backing off screw (B) and turning adjusting screw (C).

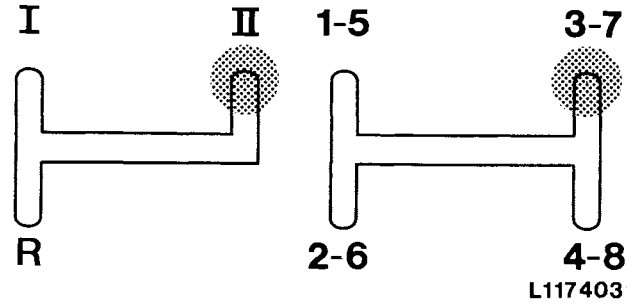
A-Pedal free travel
B-Pedal shaft screw
C-Adjusting screw



L116947-LB71010AE-010487

CHECKING TRANSMISSION

Drive tractor on trial run, shifting transmission through all gears. Remedy any defects.

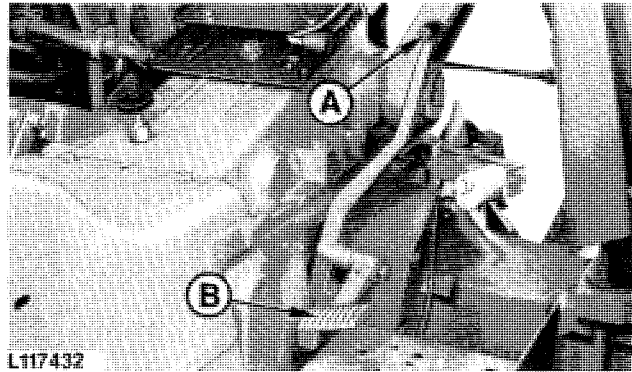


L117403-LB41010AE-010687

CHECKING DIFFERENTIAL LOCK

Drive tractor, checking functions of differential lock by operating hand lever (A) or pedal (B).

IMPORTANT: Never turn the tractor with differential lock engaged.



L117432-LB81010AE-010787

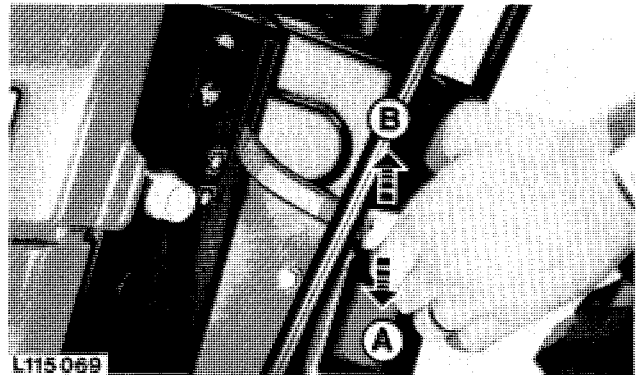
CHECKING REAR PTO

Run engine.

Up to Tractor Serial No. 618 706L: Raise shift lever and push forward.

From Tractor Serial No. 618 707L: Raise shift lever.

A-PTO disengaged
B-PTO engaged



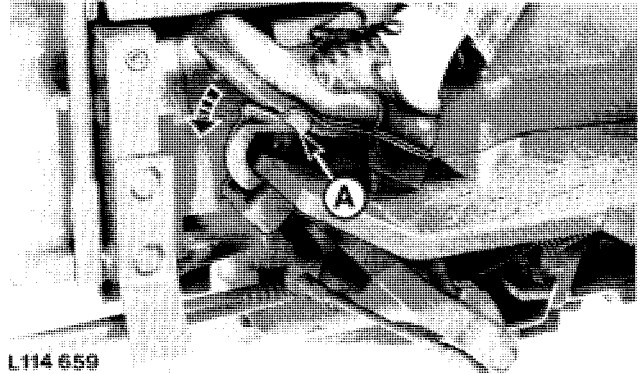
L115069-LB81010AE-010489

CHECKING CONTINUOUS-RUNNING PTO (Tractors With Collar Shift Transmission)

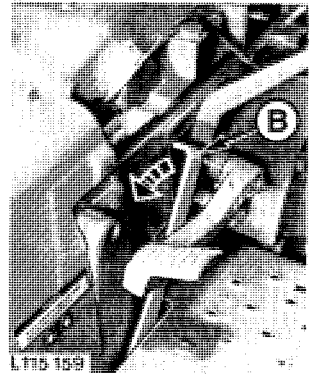
Fully depress clutch pedal (A) and engage PTO by means of lever (B).



CAUTION: Never engage PTO with tractor in motion.



L114 659



L115 159

L114659,L115159-LB31010AE-010287

CHECKING HI-LO SHIFT UNIT (When Equipped)

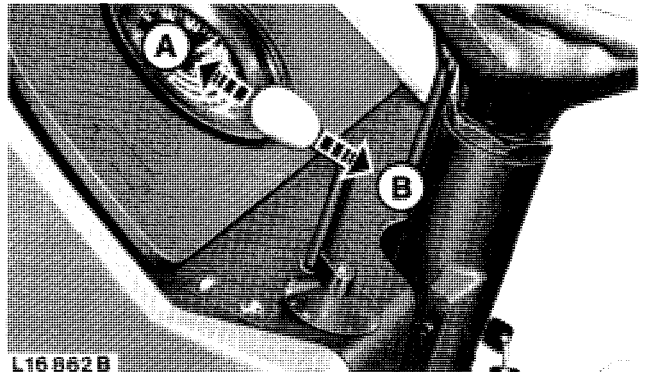
Drive tractor and operate Hi-Lo shift unit, i.e. move Hi-Lo shift unit lever to both reduced and normal speed positions several times, precisely observing Hi-Lo shift unit operation each time.

Simulate tractor working under load by applying brakes.

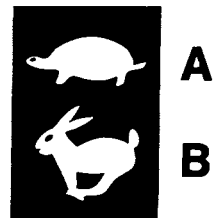
Low oil pressure will be indicated by disk pack slippage, causing the clutch pack to become noisy.

Mechanical failure in the Hi-Lo shift unit will also be indicated by unusual noise.

A-Reduced speed
B-Normal speed



L16 862 B



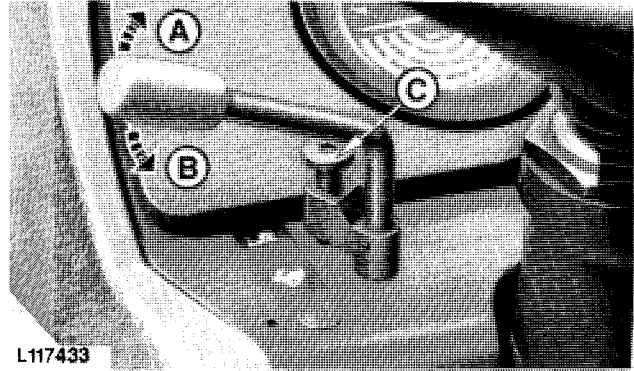
L12488 A

L16862B,L12488A-LB81010AE-010787

CHECKING CREEPER TRANSMISSION (When Equipped)

IMPORTANT: Engage creeper transmission only in I (Low) or reverse range and with clutch pedal depressed.

- A-Reduced speed
- B-Normal speed
- C-Control lever lock



L117433



L 14797A

L117433,L14797A-LB81010AE-010787

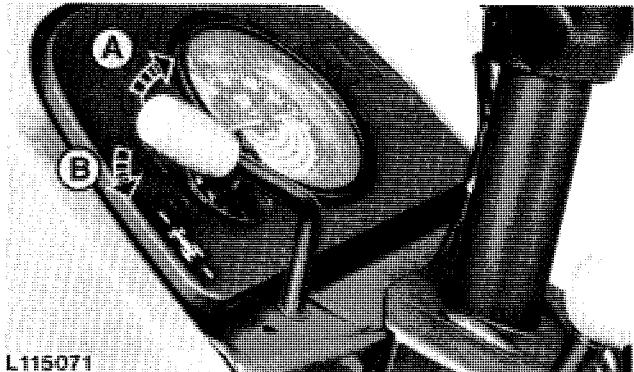
CHECKING REVERSER TRANSMISSION (When Equipped)

NOTE: An interlock in transmission prevents selection of "Reverse" as long as transmission is in high range.

- A-Forward travel (lever toward front)
- B-Rearward travel (lever toward rear)



CAUTION: Reverse speeds are 16% higher than their respective forward speeds. Use extra care when travelling at higher speeds.



L115071



L 115072

L115071,L115072-LB71010AE-010487

CHANGING FRONT WHEEL DRIVE AXLE OIL (When Equipped)

NOTE: Only change oil directly after having operated tractor for some time.

Fill with an EP transmission oil as specified in Group 15 of this section.

Front Axle Housing

Capacity:

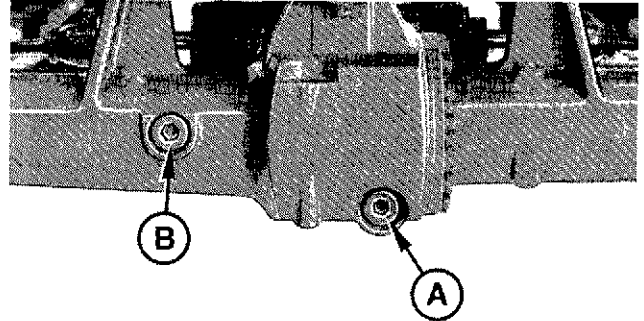
- 2155 4.6 liters (1.2 U.S. gal.)
- 2355 N 3.5 liters (0.92 U.S. gal.)

Wheel Hub Housing

After draining oil, turn wheel until oil level mark is horizontal.

Capacity: 0.5 liters (0.13 U.S. gal.)

- A-Drain plug
- B-Level plug
- C-Drain and level plug



L100061A



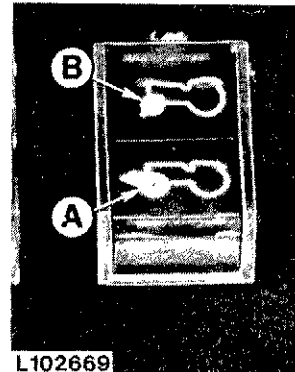
L106626

L100061A, L106626-LB81010AE-010787

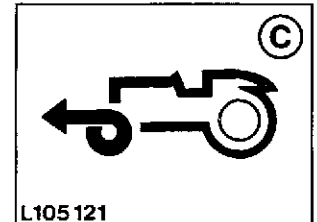
CHECKING FUNCTION OF FRONT WHEEL DRIVE (When Equipped)

Drive tractor, engaging and disengaging front wheel drive by operating tumbler switch.

- A-Front wheel drive engaged
- B-Front wheel drive disengaged
- C-Control light glows when front wheel drive is engaged



L102669



L105121

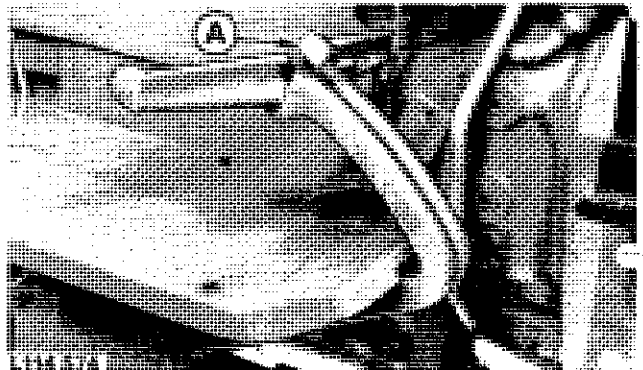
L102669, L105121-LB21010AE-010886

CHECKING FUNCTION OF FOOT BRAKES

Load each brake pedal with 270 N (60 lb) for one minute. Loaded pedal should drop approx. 25 mm (1 in.) only during this time.

NOTE: Do not check both brake pedals simultaneously, but each pedal individually.

- A-Pedal coupler



L114574

L114574-LB41010AE-010687



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first, and then click the above link

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