NEW HOLLAND

MOTOR GRADER

G170

OPERATOR'S MANUAL

75314450 NA

NEW HOLLAND

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INDEX

Symbology 7

Safety rules 8

Identification plates 21

Technical data 22

Main dimensions 25

Preliminary instructions 27

Run-in period 30

Operator's compartment 34

Controls and instruments 34

- LH lift cylinder control lever 35
- Ripper control lever 35
- Blade side displacement control lever 35
- Blade tilt control lever 35
- Circle rotation control lever 35
- Headlights control lever 36
- Electronic monitor 36
- Optional differential lock 38
- Gear and diagnosis indicator 39
- Steering wheel tilt knob 39
- Inching pedal 39
- Console tilt pedal 39
- Brake pedal 39
- Accelerator and decelerator pedal 39
- Circle side desplacement control lever 39
- Machine articulation control lever 39
- Wheel lean control lever 40
- Blade raise lever 40
- Alert sign 40
- Fuse box 40
- Hand throttle control lever 40

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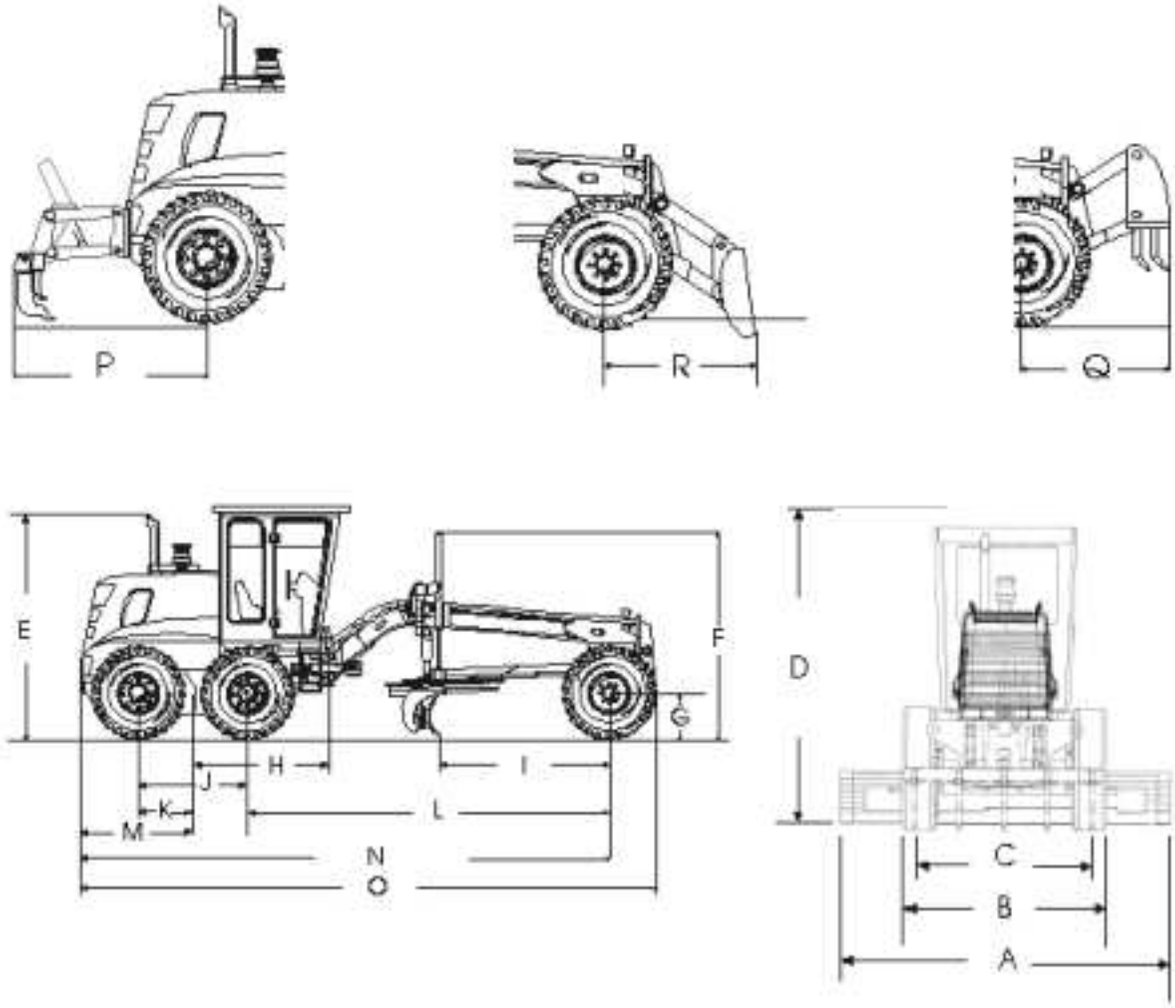
INDEX

Electronic instrument cluster 43
Master battery switch 43
Auxiliary power outlet 43
Starter switch 43
Air conditioning 44
Parking brake 46
Cab 46
Seat adjustment 46
Preliminary inspection 48
Operation 49
- Engine starting 49
- Engine stopping 49
- Engine speed changes 49
- Towing 50
- Cutting a slope 51
- Scarifying 53
- Stopping the machine 53
- Typical operations 55

Maintenance 58
- General note 58
- Lubrification and service guide 59
- Lubricant specifications 61
- Key to tipe and grade of lubricants 61
- Every 10 operating hours 63
- Every 50 operating hours 64
- Every 100 operating hours 65
- Every 250 operating hours 66
- Every 500 operating hours 68
- Every 1000 operating hours 71
- Every 2000 operating hours 72
- Periodics services 73
- Electrical schematic 82

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MAIN DIMENSIONS



DIMENSIONS

A.	Blade width	12' 0"	(3658 mm)
B.	Distance outside tires	8' 3"	(2510 mm)
C.	Distance between tire centres	7' 0"	(2134 mm)
D.	Maximum machine height	10' 11,5"	(3340 mm)
E.	Height to the top of the exhaust	10' 10.8"	(3323 mm)
F.	Height to top of blade cylinder	10' 0"	(3047 mm)
G.	Stationary tire radius	2' 0"	(610 mm)
H.	Distance from tandem axle to frame articulation pivot	6' 5"	(1958 mm)
I.	Blade base	8' 5"	(2562 mm)
J.	Distance between tandam axles	5' 2"	(1594 mm)
K.	Distance between tandem center and wheels	2' 7"	(797 mm)
L.	Distance between wheels	20' 5"	(6219 mm)

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OPERATOR´S COMPARTMENT

3 - WHEEL ANGLE CONTROL LEVER

The front wheel angle control lever, tilts the wheels to the left or to the right, thereby maintaining the stability to dump or dig, and to facilitate or decrease the machine´s turning radius. Move the lever forward to tilt the wheels to the left or to the rear to tilt the wheels to the right. After reaching the desired position, release the lever and will return to neutral.

4 - BLADE RAISE LEVER

Use this lever to raise or lower the right end of the blade. Move the lever forward to lower or to the rear to raise. After reaching the desired height, release the lever and it will return to neutral.

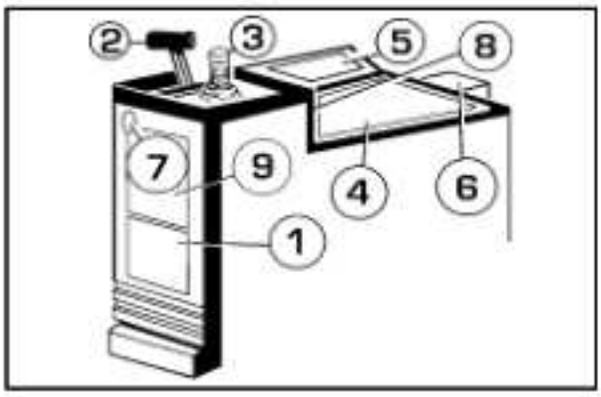
5 - WARNING BUZZER

Operate this buzzer whenever the machine is in hazardous situations.



GROUP 4

Fuse box, hand throttle control lever, transmission control lever, switch panel, instrument panel (electronic), master battery switch, power outlet and ignitition swictch.



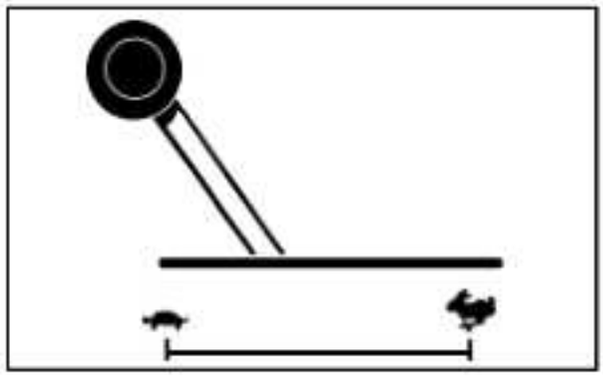
1- Fuse box
2- Hand throttle control lever
3- Transmission control lever
4- Switch panel
5- Instrument cluster (electronic)
6- Master battery switch
7- Power outlet
8- Ignition switch
9- Transmission inspection points

1 - FUSE BOX

The fuse box houses all machine fuses, as shown below.
For proper identiication of the location of each fuse, check the electrical wiring diagram.



2 - HAND THROTTLE CONTROL LEVER



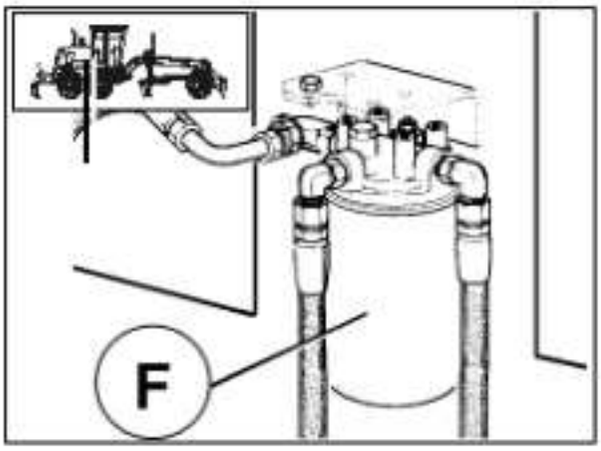
Engine speed will be low with the throttle lever all the way to the rear and high with the lever all the way forward.

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MAINTENANCE

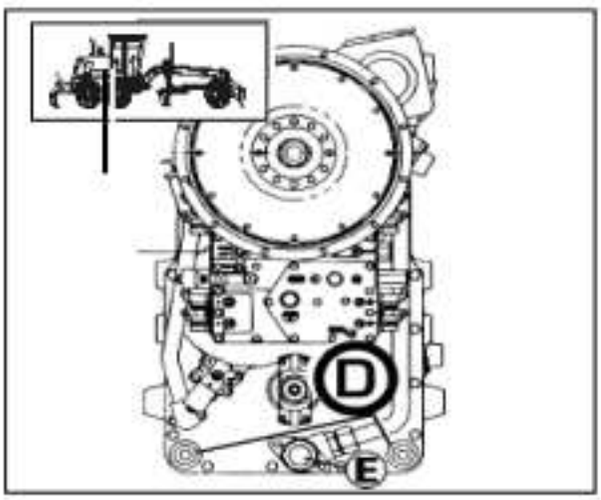
EVERY 1000 OPERATING HOURS

25- TRANSMISSION OIL FILTER
Replace



This filter (F) is a remote type filter. To replace, clean the area around the filter. Then replace filter element and gaskets. Clean the inside of the filter and mating surface. Reinstall the filter.

26- TRANSMISSION
Change oil / clean screen



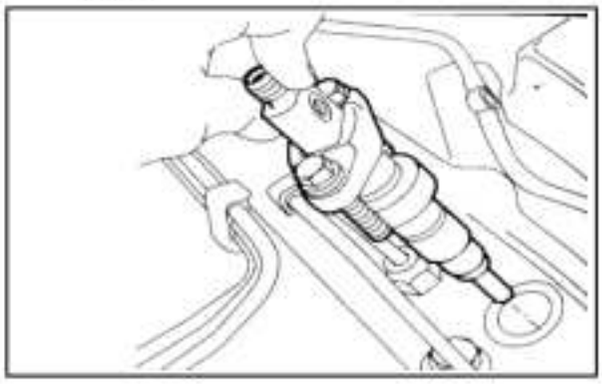
Drain plug (D) and screen filter (E)

Keep engine running until the transmission oil reaches normal operating temperature.
Park machine on a level, flat surface, engage parking brake, lower the blade to the ground and switch off the engine.
Remove the transmission screen filter and allow the oil to drain.
Clean sucction screen thoroughly. Reinstall screen and drain plug (at this time change transmission oil filter).
Fill the system with specified oil until flush with the bottom of the plug.

CAUTION

Never use gasoline, solvents or other fluids to clean the parts. Use only commercial, non-flammable, non-toxic solvents.

27- FUEL INJECTORS
Check



Injector nozzles

CAUTION

Keep your hands away from injector end. Atomized fuel is ejected with sufficient force to cause blood poisoning. Use safety goggles.

Remove fuel injector pipes from the injectors and cover them to prevent contamination. Remove injector attaching bolts on the cylinder head and remove the injectors.
Cover all openings in the cylinder head to prevent contamination.
The injectors must be checked by qualified personnel and specialized service shops, that have proper equipment.
Nozzle opening pressure settings are 205 BAR.
Ensure all gaskets and seals are in good condition.

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INSTRUÇÕES DE OPERAÇÃO / QUICK OPERATION INSTRUCTIONS

Chave de Ignição (Key switch) Chave geral (Master switch)



Dar partida no motor:
a)Alavanca de marcha em neutro e acelerador em marcha lenta.
b)Ligar a chave geral.
c)Dar partida na chave de ignição.

Engine starting
a)Gear selector lever in neutral position and throttle lever at low position.
b)Turn on master switch.
c)Turn on key switch.



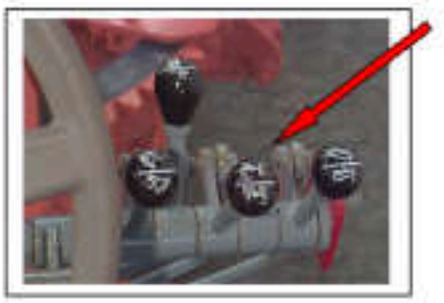
Alavanca de marchas (Gear selector lever):

Movimentar a máquina:
a)Acionar o pedal da embreagem.
b)Soltar o freio de mão.
c)Levantar a trava da alavanca de marchas e movimentar a alavanca para frente ou para trás.
d)Soltar o pedal da embreagem lentamente.

To move the machine:
a)Press inching pedal.
b)Release parking brake lever.
c)Lift gear selector lever lock and move the lever to forward or reverse.
d)Release inching pedal slowly.



Pedal da Embreagem (Inching Control Pedal)



Alav. de inclinação das rodas e articulação do chassis:
(Wheel lean control lever and frame articulation lever)
Atenção: Não acionar a alavanca de inclinação das rodas com o parafuso trava montado na barra de inclinação e também a alavanca de articulação chassis com o pino de travamento montado nos chassis.
Warning: Do not move the wheel lean lever with lock bolt locked and do not move the articulation frame lever with the lock pin locked on frames.

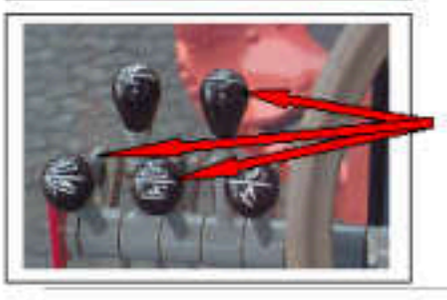


Parafuso Trava – Eixo Dianteiro
(Lock Bolt – Front Axle)

Alavanca de Controle da Lâmina:
(Blade Control Lever)
Atenção: Cuidado ao deslocar a lâmina para não danificar a escada / pneus.

Warning: Be careful when moving the moldboard to avoid step / tires damage.





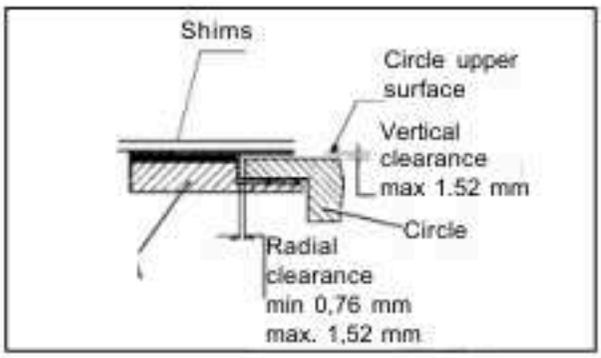
Alavancas de controle da lâmina
(Blade control levers)

Pino travamento chassis
(Frames lock pin)



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Locate the swing motor pinion such as to achieve an engaging position.

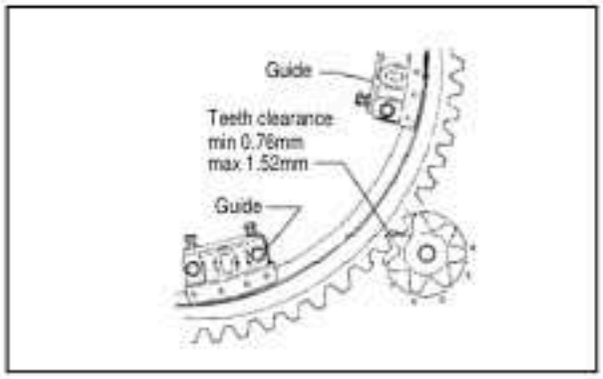
Make sure that the center line of the circle turn motor pinión, that the center circle are aligned.

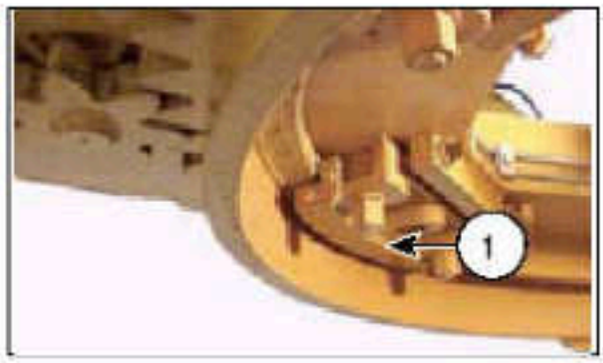
Supporting one of the sides of the referenced pinion tooth against the side of one circle tooth, act on the front guide radial clearance adjusting bolt to provide a 0.76 mm clearance between the non-supported side of the pinion engaged tooth and the circle tooth. Note that during adjustment of the teeth clearance, the front guide wear plate should rest on the innner race of the circle.

After adjustment of the radial clearance of the front guide is completed and all nuts tightened, adjust the two rear guides to provide a maximum clearance of 0.76 mm between the inner circle race and the guide wear plates (curved), at the adjusting bolts of the wear plates.

Lock adjusting bolts with their lock nuts. Tighten the guide nuts and operate the circle to check for 360° free rotation.

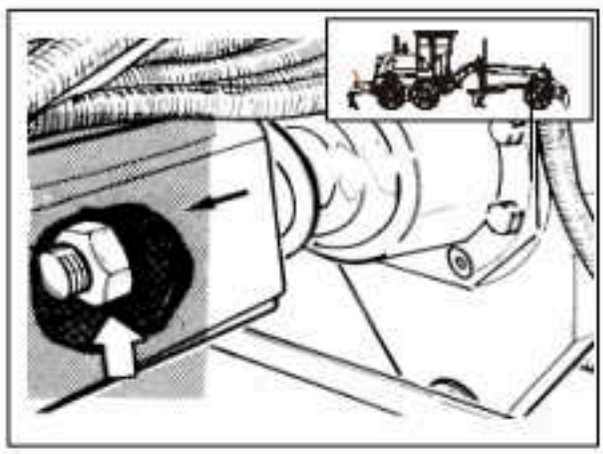
If the circle does not rotate freely, redo the adjusment, by gradually increasing clearance between the sides of the teeth until the specified limit is achieved.







41- CIRCLE CARRIER BAR BALL NUTS
Check



Check coupling ball nuts.
Torque to 75 to 91 kgm (540 to 660 lbs.ft).

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