LOCATION OF FUSES AND RELAYS

VERSION 1 (with/less cab) - Fig. 69

2WD mechanical shuttle

I. Not used

II. Not used.

III. Not used.

IV. Brake lights circuit.

V. Not used.

VI. Full beam headlight circuit.

VII. Dipped beam headlight circuit.

VIII. Not used

IX. Not used

VERSION 2 (with/less cab) - Fig. 69

2WD - Power-Shuttle

I. Not used.

II. Not used.

III. Not used.

IV. Differential lock and brake lights circuit.

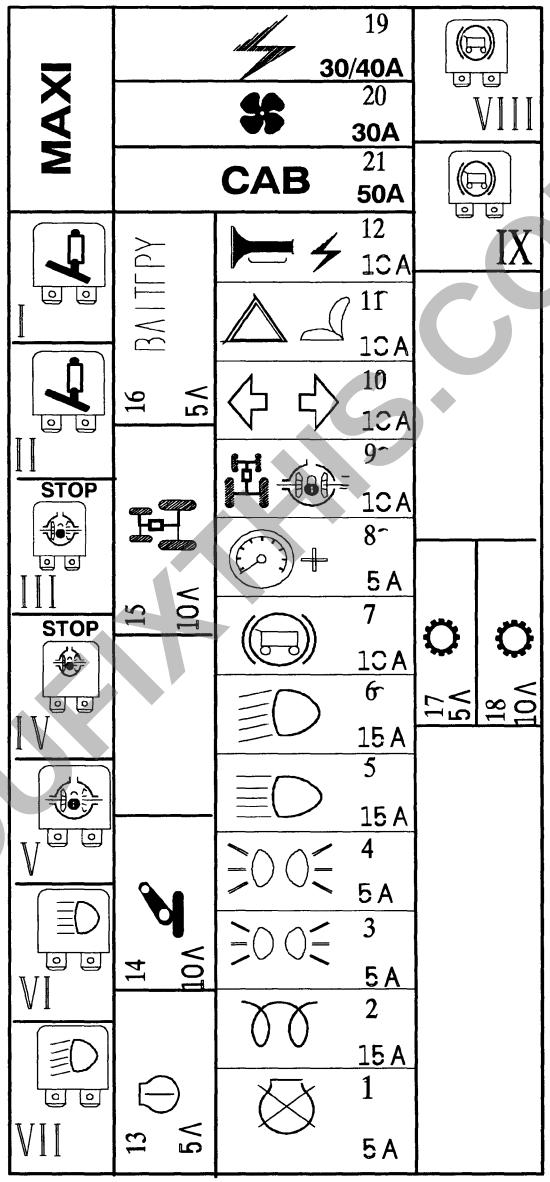
V. Differential lock and brake lights circuit.

VI. Full beam headlight circuit.

VII. Dipped beam headlight circuit.

VIII. Not used.

IX. Not used.



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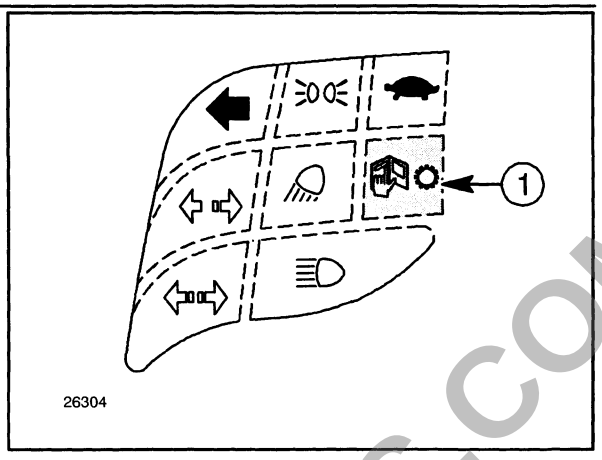
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POWER-SHUTTLE FAULT CODE SIGNALS

In the event of a fault, any eventual anomalous conditions are indicated by the illumination of an indicator lamp (**1**) fig. 71.

The indicator (**1**) identifies the fault code in six phases:

1. 5 flashes in rapid succession to indicate imminent transmission of the fault code;
2. 2 second pause;
3. n... flashes to indicate the first figure of the fault code;
4. pause of 1 second;
5. n... flashes to indicate the second figure of the fault code;
6. 3 second pause.



71

- Example of the interpretation of fault code number 21 -

1st phase	2nd phase	3rd phase	4th phase	5th phase	6th phase
●●●●●	pause	●●	pause	●	pause
code transmission warning	2s	first figure 2	1s	second figure 1	3s
		fault code composition 21			

72

⚠ CAUTION ⚠

The system indicates eventual fault codes according to the degree of gravity.
If a fault occurs that compromises system operation, this fault code will take priority over the indication of other codes, which will be stored in the system.
Once the fault has been repaired, the system will then display any other fault codes that are active.

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LUBRICATION AND MAINTENANCE TABLE

The numbers in the second column are with reference to the operations and illustrations in the following pages of this section.

Hours of work	Operation number	Maintenance operation	Functional check	Fill-up level	Cleaning	Greasing	Adjustment	Replacement	Page
Flexible maintenance	1.	Adjust engine clutch					●		4-7
	2.	Adjust fan belt					●		4-8
	3.	Adjust compressor belt					●		4-8
	4.	Outlet valve, dry air filter			●				4-8
	5.	Windscreen washer tank		●					4-9
With warning light ON	6.	Main cartridge, dry air filter			●				4-10
	7.	Brake fluid reservoir	●	●					4-11
Every 10 hours	8.	Oil sump	●	●					4-12
	9.	Radiator expansion tank (model TN95F)	●	●					4-12
	10.	Cab air filters			●				4-13
	11.	Air conditioning dehydration filter			●				4-14
Every 50 hours	12.	Front axle pivots 4WD				●			4-15
	13.	Transmission shaft 4RM				●			4-15
	14.	Steering cylinder 2WD				●			4-15
	15.	Rear wheel hubs				●			4-16
	16.	Lift and linkage				●			4-16
	17.	Steering cylinder 4WD				●			4-16
	18.	Stub axle: right and left hand sides - 2WD				●			4-17
	19.	Front axle pivot 2WD				●			4-17
	20.	Fuel filter (condensation drain)			●				4-17
	21.	Front lift arms shaft			●				4-18
	22.	Front power take-off coupling				●			4-18

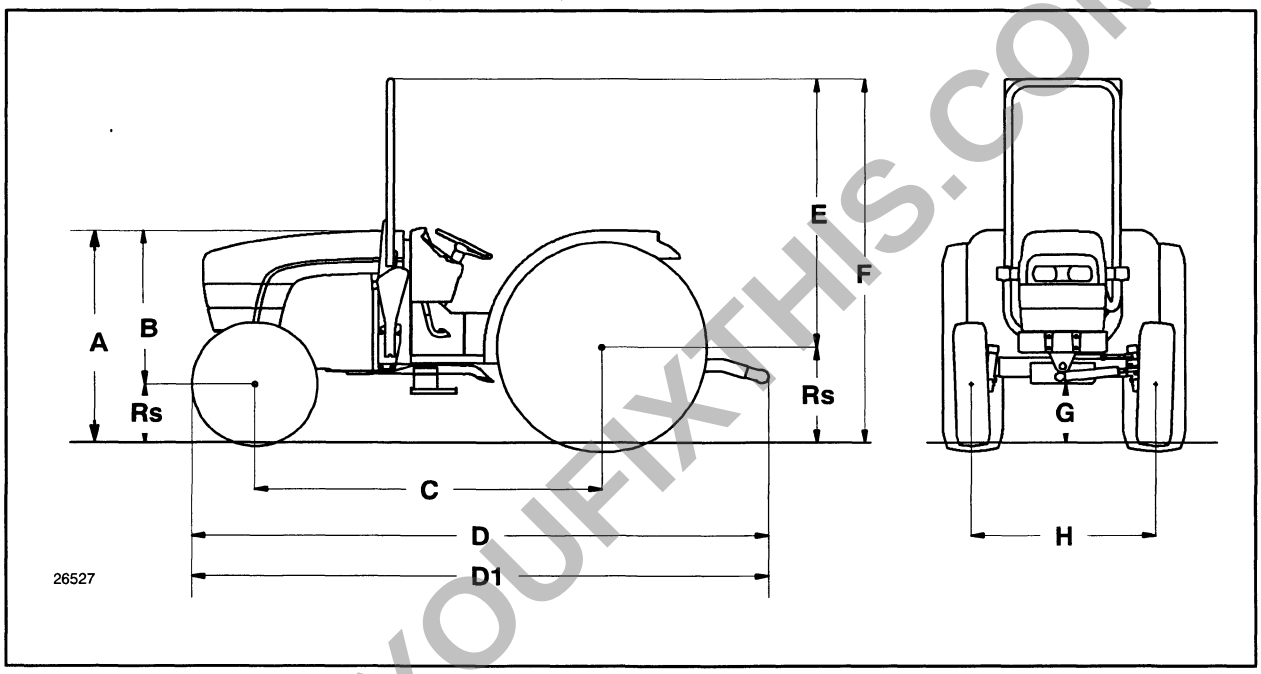
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SECTION 8
SPECIFICATIONS AND DATA

The data on the following pages is provided for your information and guidance. For further details concerning your tractor, contact your dealer.

DIMENSIONS OF 2WD MODELS WITH ROLL BAR



1

Dimensions (mm) inches	TN70F	TN80F	TN95F
Rs	Tyre radius under load		
A	B + Rs front tyre		
B	(1014) 39.92		
C	(2230) 87.79		
D	(3956) 155.78		
D1	(3806) 149.84 (with tyre 380/70R-20)		
E	(1731) 68.14		
F	E + Rs rear tyre		
G	Rs front tyre		
Front H	(1222 ÷ 1622) 48.11 to 63.85		
rear H	(1112 ÷ 1460) 43.77 to 57.48 (with tyre 380/70R-20)		

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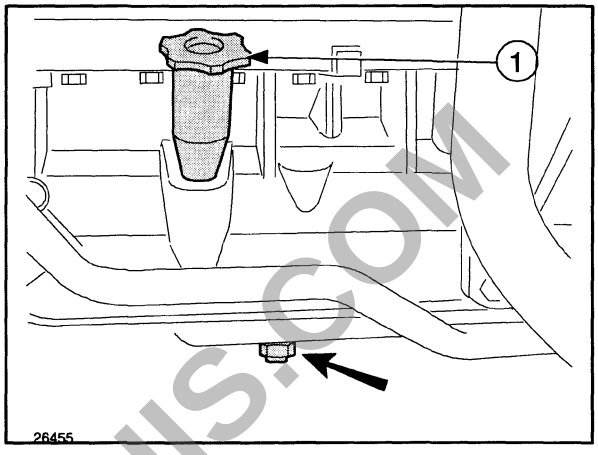
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EVERY 300 HOURS OF WORK

OPERATION 23.

OIL SUMP - Fig. 31

Drain through the engine oil plug and the fill up through the fill point (**1**).



31

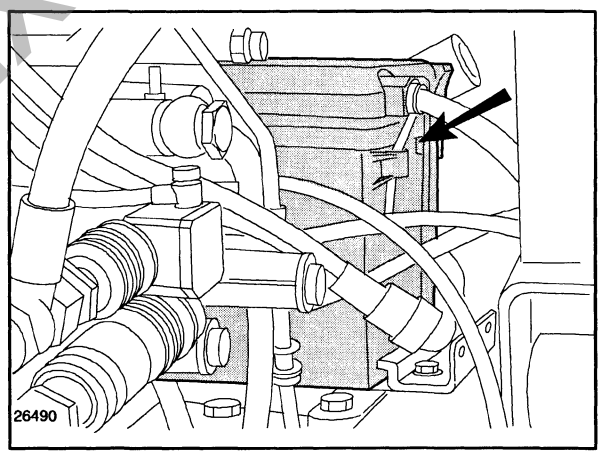
OPERATION 24.

BATTERY - Fig. 32

NOTE: *The battery is located behind the cab under the lower rear window.*

NOTE: *The electrolyte level must be checked with the engine shut off, the tractor on a flat surface and the battery cold.*

NOTE: *Check that the clamps are firmly attached to their terminals.*
If the battery needs to be topped up frequently or tends to run down, have the electrical system checked by your New Holland Dealer.

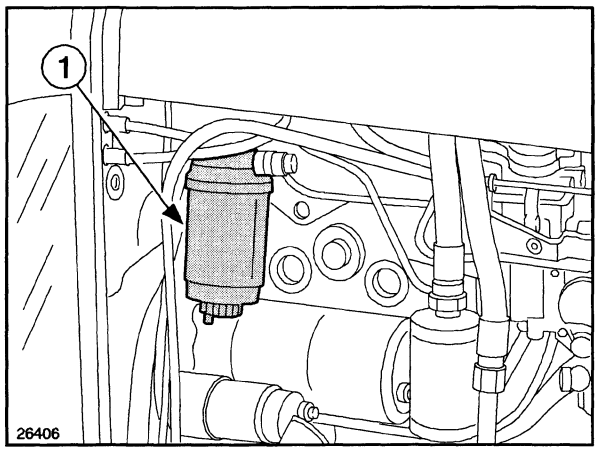


32

OPERATION 25.

FUEL FILTER - Fig. 33

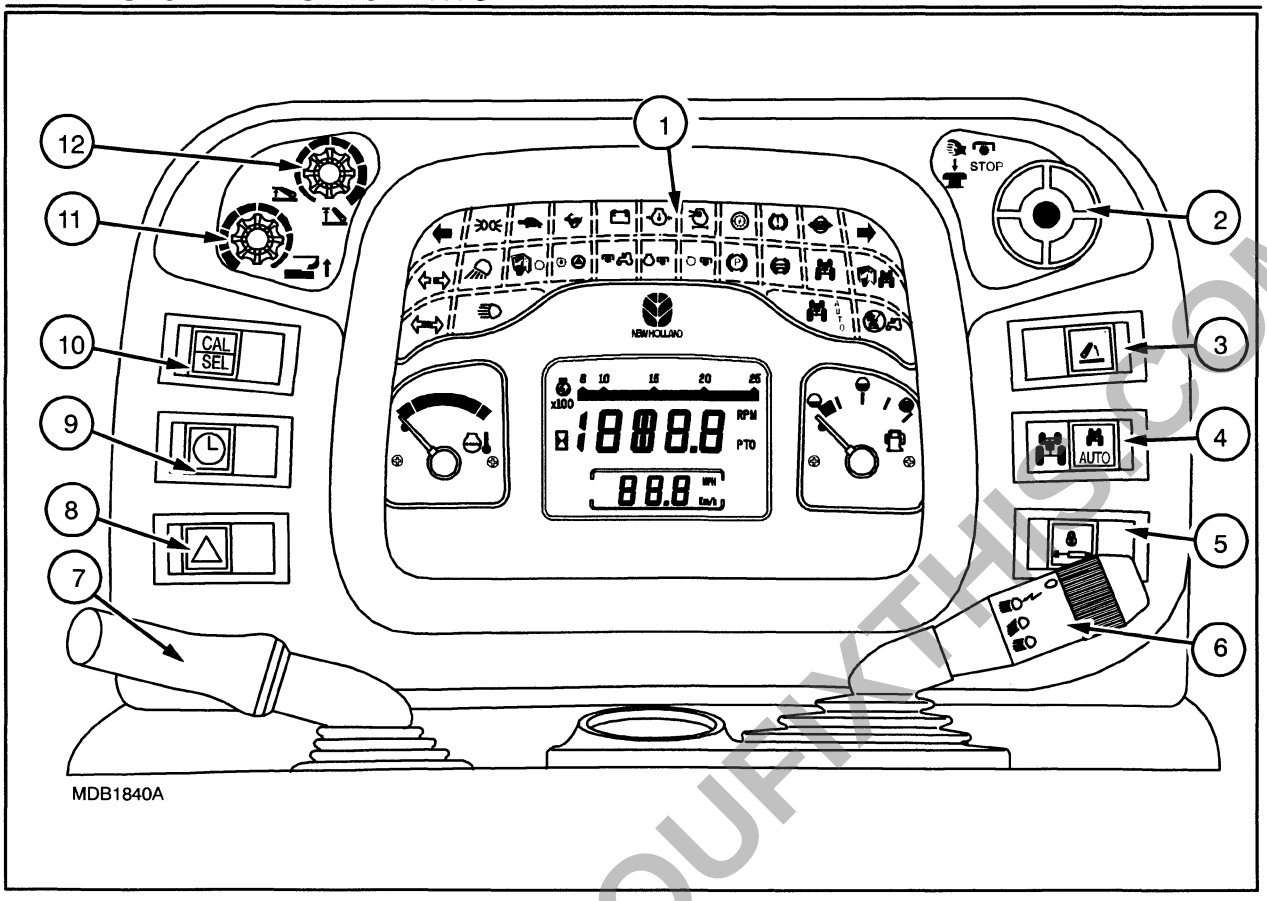
Unscrew the filter cartridge (**1**) by hand and replace. Bleed off the air, as described on page 4-30.



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1

Digital instrument control panel

1. Indicator light panel.
2. Front Power take-off control.
3. Front lift arms raise switch.
4. Automatic front wheel drive mode switch.
5. Rear horizontal arms stabiliser rods adjustment control switch.
6. Light control lever with horn incorporated.
7. Power Shuttle control lever.
8. Flashing hazard warning lights switch.
9. Clock adjustment switch.
10. Dashboard electronic mode selection switch (optional).
11. Front lift working depth adjustment knob.
12. Front lifting arms upper limit adjustment knob.

⚠ CAUTION ⚠

To avoid damaging the electronic components, follow the instructions noted below when carrying out arc welding on tractors fitted with electronic lifts or on connected implements.

- When possible, disconnect the implement or the part that needs welding from the tractor.
- Disconnect the two battery cables from the terminals.
- Connect the welding machine ground clamp as close as possible to the area where welding is to take place.
- If welding is to be carried out within **1 meter** of the control unit, the unit must first be removed.
- Whilst welding, make sure that the cables do not pass above or near electrical or electronic leads.

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VERSION 3 (with/less cab) - Fig. 70

4 WD Power-Shuttle and 4 WD Mechanical shuttle

I. Not used

II. Not used

III. Differential lock and brake lights circuit.

IV. Differential lock and brake lights circuit.

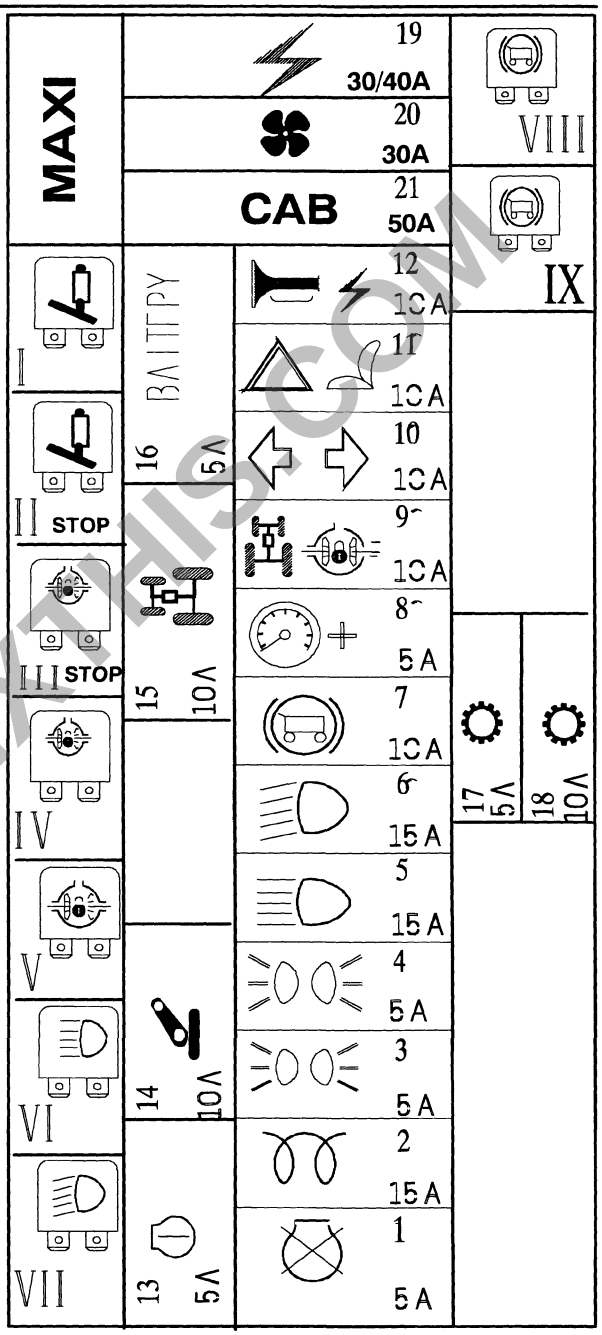
V. Differential lock and brake lights circuit.

VI. Full beam headlight circuit.

VII. Dipped beam headlight circuit.

VIII. Not used

IX. Not used



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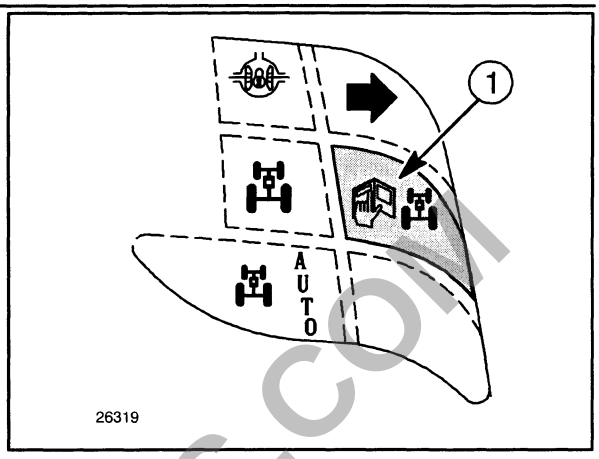
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AUTOMATIC 4WD FAULT CODES INDICATION

Any eventual electrical or electronic anomalies that are detected will be indicated by the illuminated signal (**1**) fig. 11.

The indicator (**1**) identifies the fault code in six phases:

1. 5 flashes in rapid succession to indicate imminent transmission of the fault code;
2. 2 second pause;
3. n... flashes to indicate the first figure of the fault code;
4. pause of 1 second;
5. n... flashes to indicate the second figure of the fault code;
6. 3 second pause.



11

- Example of the interpretation of fault code number 31 -

1st phase	2nd phase	3rd phase	4th phase	5th phase	6th phase
●●●●●	pause	●●●	pause	●	pause
code transmission warning	2s	first figure 3	1s	second figure 1	3s
		fault code composition 31			

12

⚠ CAUTION ⚠

The system indicates eventual fault codes according to the degree of gravity.
If an error occurs that disables the automatic four-wheel drive mode, this fault code will take priority over the indication of other codes, which will be stored in the system.
Once the fault has been repaired, the system will then display any other fault codes that are active.

⚠ CAUTION ⚠

If a fault is indicated and the tractor continues to operate normally, contact your New Holland dealer to have the system checked if necessary.

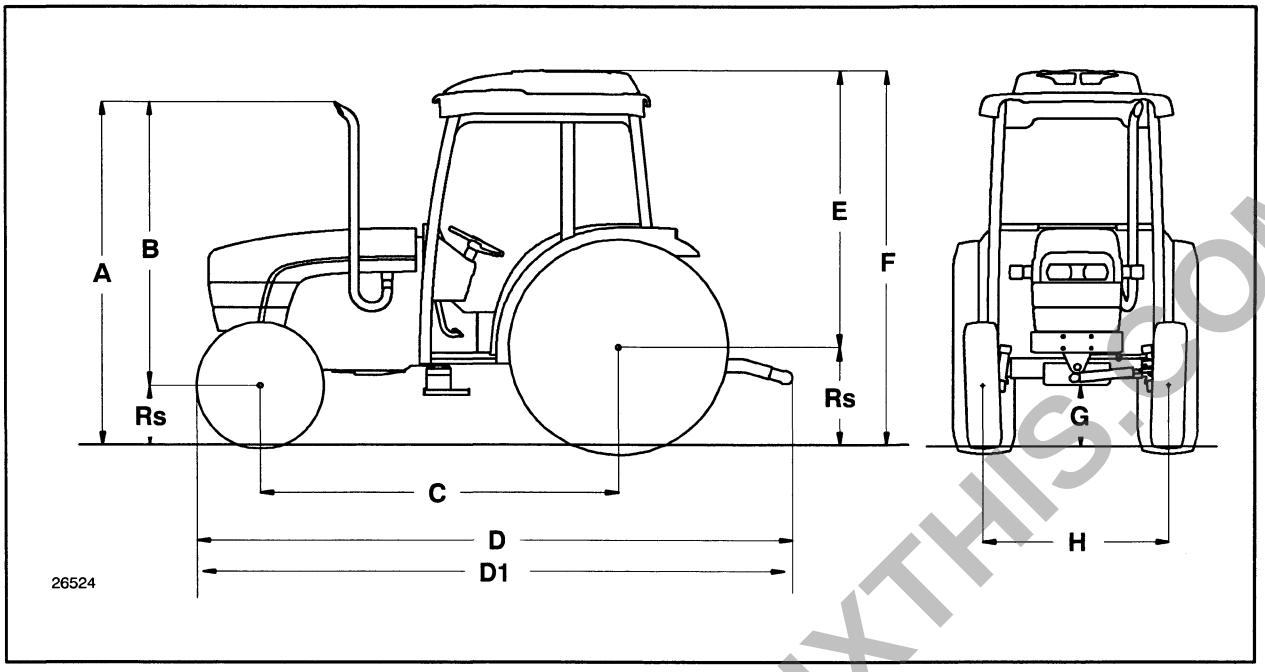
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Hours of work	Operation number	Maintenance operation	Functional check	Fill-up level	Cleaning	Greasing	Adjustment	Replacement	Page
Every 300 hours	23.	Oil change, engine sump						●	4-19
	24.	Battery	●	●					4-19
	25.	Fuel filter						●	4-19
	26.	Fuel pump filter			●				4-20
	27.	Transmission oil filter and services						●	4-20
	28.	HI-LO/POWER-SHUTTLE oil filter						●	4-20
	29.	Engine oil filter						●	4-21
	30.	Air filter (external cartridge) models. TN70F-TN80F			●				4-21
	31.	Air filter (external cartridge) models. TN95F			●				4-21
	32.	Transmission and lift	●	●					4-22
	33.	Front axle housing 4WD	●	●					4-22
	34.	Transmission handbrake	●				●		4-22
	35.	Front axle lateral hubs 4WD	●	●					4-23
	36.	Front wheels 2WD				●			4-23
	37.	Stub axles 4WD				●			4-23
Every 900 hours	38.	Engine valves	●				●		4-24
Every 1200 hours or annualy	39.	Cab air filters						●	4-25
	40.	Air filter (internal and external cartridges)						●	4-25
	41.	Fuel tank			●				4-25
Every 1200 hours or every 2 years	42.	Injectors	●				●		4-26
	43.	Front axle housing oil 4WD						●	4-26
	44.	Front axle lateral hubs oil, 4WD						●	4-26
	46.	Engine cooling system						●	4-28
	45.	Transmission and lift oil						●	4-27
General maintenance	Bleed fuel system								4-30
	Bleed brake system 2WD models								4-31
	Electrical system								4-32
	Notes on bodywork maintenance								4-44
	Tractor storage								6-1

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DIMENSIONS OF 2WD MODELS WITH CAB



2

Dimensions (mm) inches	TN70F	TN80F	TN95F
Rs	Tyre radius under load		
A	B + Rs front tyre		
B	(1685) 66.33		
C	(2230) 87.79		
D	(3956) 155.74		
D1	(3806) 149.84 (with tyre 380/70R-20)		
E	(1750) 68.89		
F	E + Rs rear tyre		
G	Rs front tyre		
Front H	(1222 ÷ 1622) 48.11 to 63.85		
rear H	(1112 ÷ 1460) 43.77 to 57.48 (with tyre 380/70R-20)		

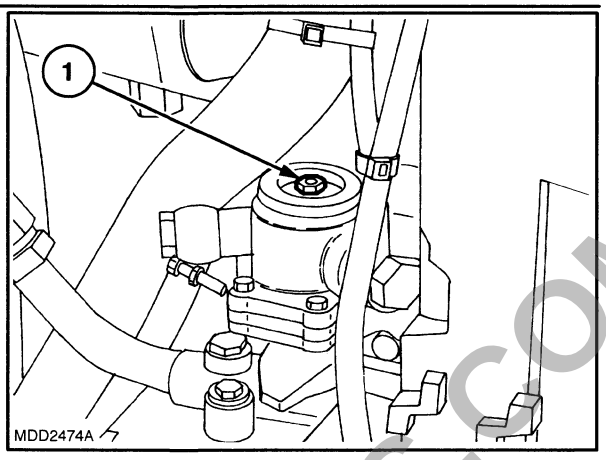
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OPERATION 26.

FUEL PUMP FILTER - Fig. 34

Remove cover (**1**) and clean the internal filter.

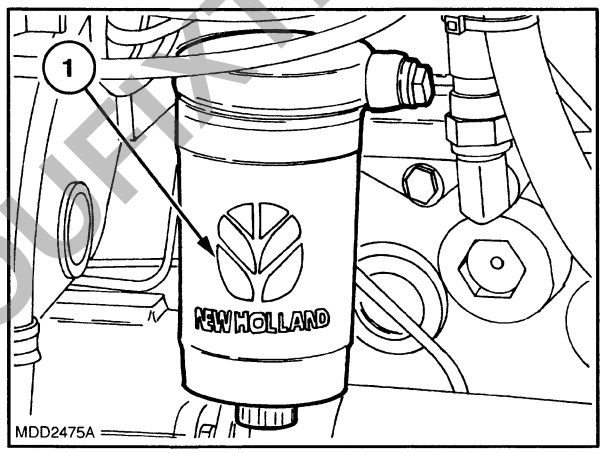


34

OPERATION 27.

TRANSMISSION AND SERVICES OIL FILTER - Fig. 35

Unscrew the container (**1**) and replace the internal filter. Before re-positioning the container, oil the seals and screw on by hand for $^{3}/_{4}$ of a turn. Top up with new oil (see operation no. 32.).

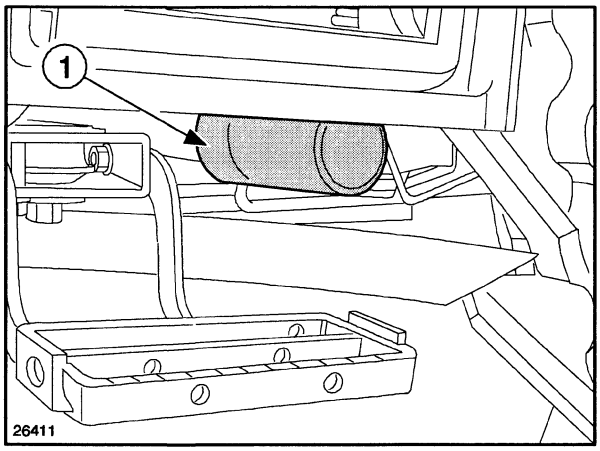


35

OPERATION 28.

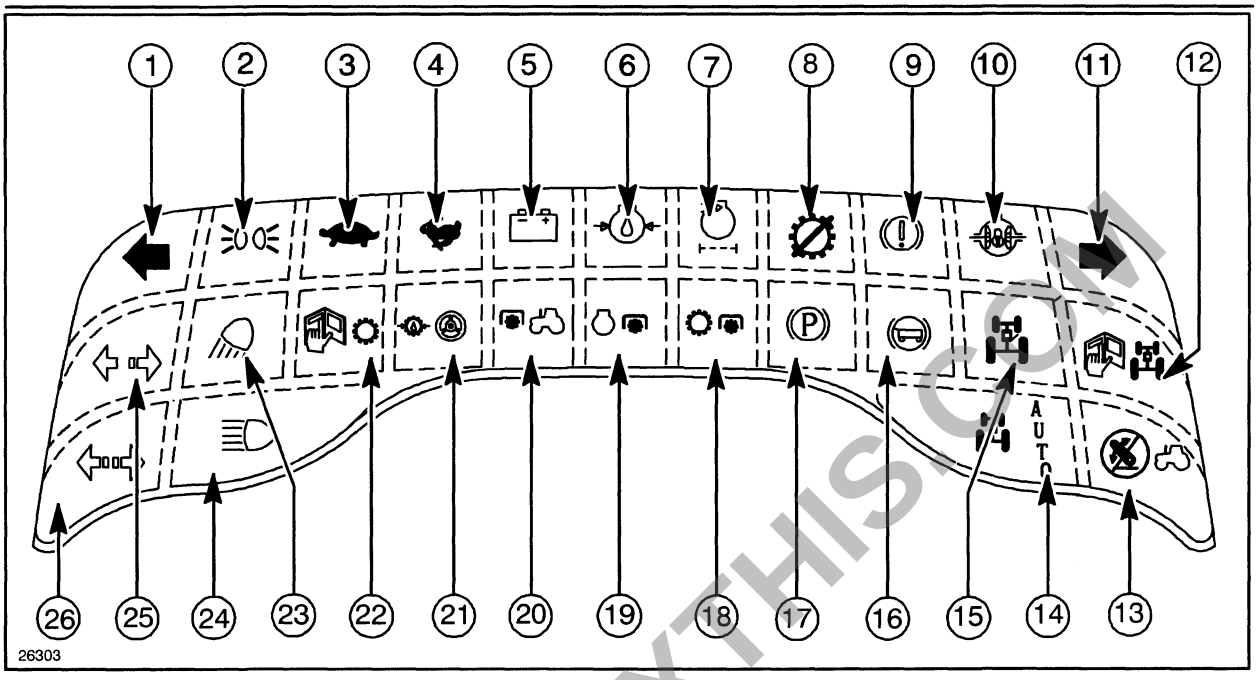
POWER-SHUTTLE/HI-LO OIL FILTER - Fig. 36

Replace filter (**1**) and oil the seal; screw on and tighten the cartridge $^{3}/_{4}$ of a turn by hand. Top up with new oil (see operation no. 32.).



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2

OPERATION INDICATOR LIGHT PANEL

1. Tractor left-hand turn indicator.

Flashes at the same time as the left-hand turn indicators.

2. Side lights indicator.

Lights up when the sidelights are switched on.

3. Low gear range engaged indicator.

Lights up when low gear is selected.

4. High gear range engaged indicator.

Lights up when the high gear range is selected (transmission with Power-Shuttle/HI-LO).

NOTE: *3 and 4 will lash alternately in the event the transmission control module disables the trasmission.*

5. Battery charging system warning light.

Should switch off as soon as the engine starts. If the light stays on when the engine is running, stop and find the cause of the problem.
May light up when the engine is idling, but does not necessarily indicate a fault.

6. Engine lubrication oil low pressure indicator.

The light should go out a few seconds after the engine is started.
If it stays on when the engine is running, switch it off and look for the cause of the problem.
If the light remains on, particularly when the tractor is moving, contact your New Holland dealer.
When the engine is warmed up and running at minimum revs, with the tractor stationary, the light may illuminate, even if no faults are present.

7. Dry air filter clogged indicator.

The light comes on when the air filter cartridge is partially or totally clogged.
Turn the engine off and clean the cartridge as described in operation 6. page 4-10.

8. Not used in North America

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