FUSES

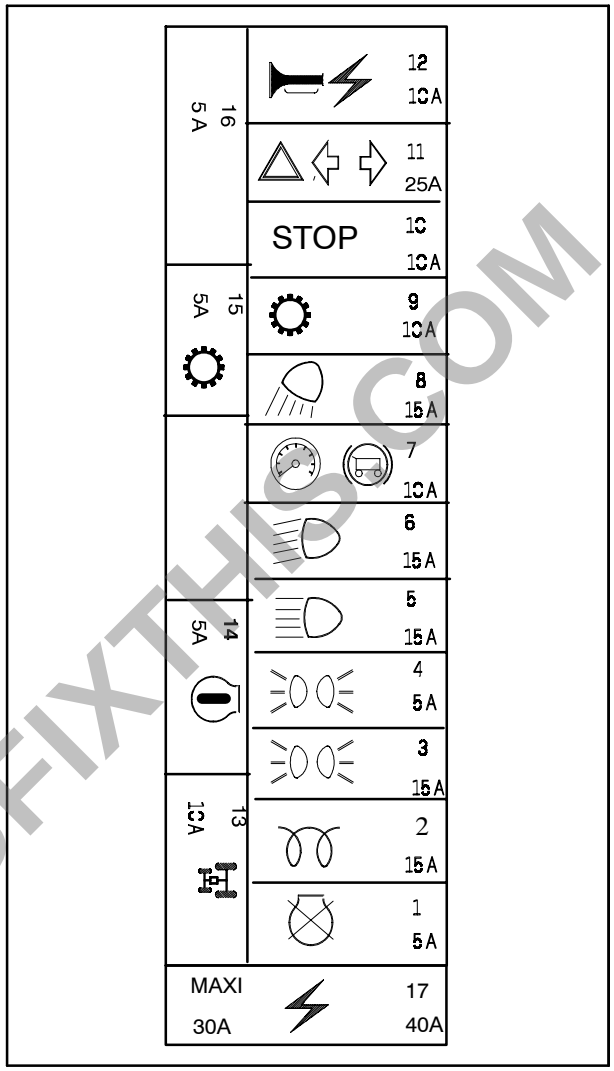
VERSION 1.

DANGER

If electrical system relays need to be changed, check that correct spare parts are used and that they are fitted in the correct positions. The use of structurally or functionally different relays - even if interchangeable - could seriously compromise tractor control with dangerous results.

Versions with mechanical transmission fitted for:

- Swivel position lights
- 7-pole 8A and 40A sockets
- Mechanical FWD



58

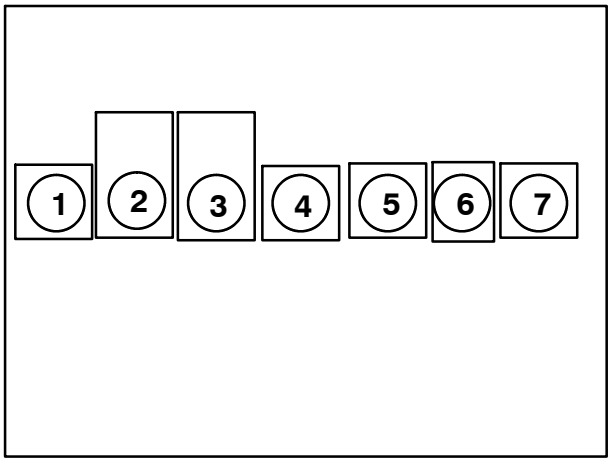
EQUIPMENT LAYOUT

Left side

1. Brake lights circuit relay
2. Timed buzzer
3. Flasher

Right side

4. FWD circuit relay
5. FWD circuit relay
6. Engine starter circuit relay
7. 40A maxi-fuse



59

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ENGINE

CONDITION	POSSIBLE CAUSE	SOLUTION
The engine will not start or starts with difficulty	Incorrect starting procedure	See starting procedure
	Fuel level low or empty	Check fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable for ambient temperature	Use correct type of fuel for temperature conditions
	Fuel system contaminated	Clean system
	Fuel filter clogged	Replace filter element
	Fuel injector fault	Contact your dealer
The engine does not run properly and/or cuts out	Fuel system contaminated	Clean system
	Fuel injector fault	Contact your dealer
Engine does not develop full power	Engine overload	Change to lower gear or reduce load
	Air filter clogged	Carry out maintenance on air filter
	Incorrect fuel type	Use the right fuel
	Low engine operating temperature	Check thermostat
	Fuel injector fault	Have your dealer check the injectors
	Implement incorrectly set	See equipment manual

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

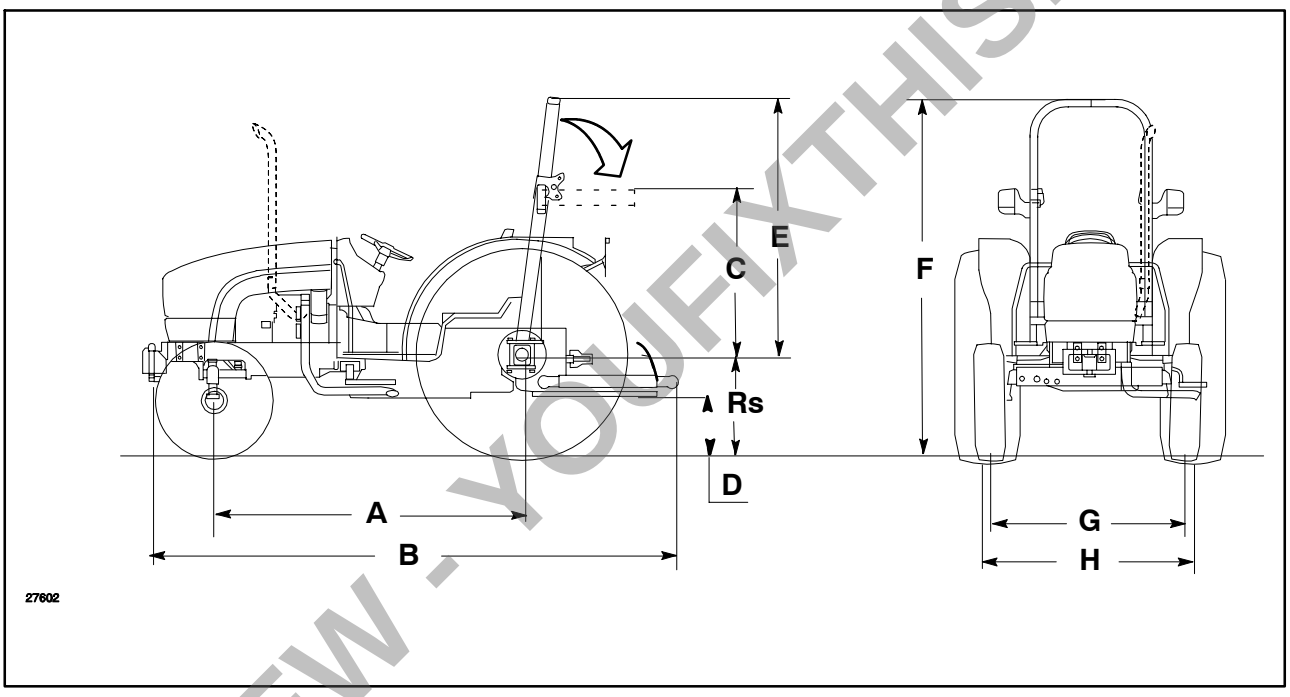
SECTION 8

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 2-WHEEL DRIVE MODELS

Tire combinations: Front **7.50–16** Rear **420/70–30**



1

Rs = (tire radius under load)

A.	mm (in.)	2070 (81.5)
B.	mm (in.)	3602 (141.8)
C.	mm (in.)	1268 (49.9)
D.	mm (in.)	374 (14.7)
E.	mm (in.)	1781 (70.1)
F.	mm (in.)	2451 (96.5)
G. (front track setting)	mm (in.)	1357 to 1957 (53.4 to 77.0)
H. (rear track setting)	mm (in.)	1333 to 1920 (52.5 to 75.6)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SECTION 3
FIELD OPERATION

⚠ WARNING ⚠

In order to prevent accidents and safeguard the operator, carefully read the use and safety instructions before starting the engine and using the tractor.

Read this section of the operator's manual carefully before using the tractor. This is particularly important if the tractor is to be used correctly as it contains all the information required on the layout and use of the tractor controls.

Even if you already have experience in using other makes of tractor, this section of the manual especially must be studied carefully and thoroughly.

After reading this section in full, ensure that you are fully familiar with the layout and use of the controls. Ensure too that you know the specifications of the tractors in question.

Never start the engine and tractor if you have not already familiarized yourself with all the controls.

Finding out once the tractor is moving may be too late.

If you have any doubts about any functional aspect of the tractor, contact you NEW HOLLAND dealer.

Particular attention needs to be paid to the tractor's running-in period, to obtain the best operating reliability and service life for which it is designed and built.

With regard to the reliability and service life of your tractor, read Section 4 completely.

Section 4 contains details of all the lubrication and general maintenance operations to be carried out on the tractor.

Section 8 contains tractor data and specifications.

⚠ CAUTION ⚠

Before starting the engine and moving the tractor, follow the instructions noted below:

- **Do not start or operate the tractor in an enclosed area.**
- **Before starting the engine, check that all controls are in neutral.**
- **All controls must only be operated from the driving position.**
- **Stop the engine before carrying out any service or maintenance operations on the tractor.**
- **Use the steps provided for entering and leaving the tractor.**
- **Keep the guards properly fitted.**
- **When driving on roads, indicate all intentions to stop, turn or slow down.**
- **Use the appropriate warning devices to signal the presence of a slow-moving vehicle.**

STARTING THE ENGINE

If the tractor has not been used for some time, or is started up for the first time in low outside temperature conditions, operate the fuel pump starting lever approximately twenty times and allow the engine to run for 5 ÷ 10 seconds with the injection pump in the «stop» position.

Press down the clutch pedal, place the shuttle control lever in neutral to close the starting safety device switch.

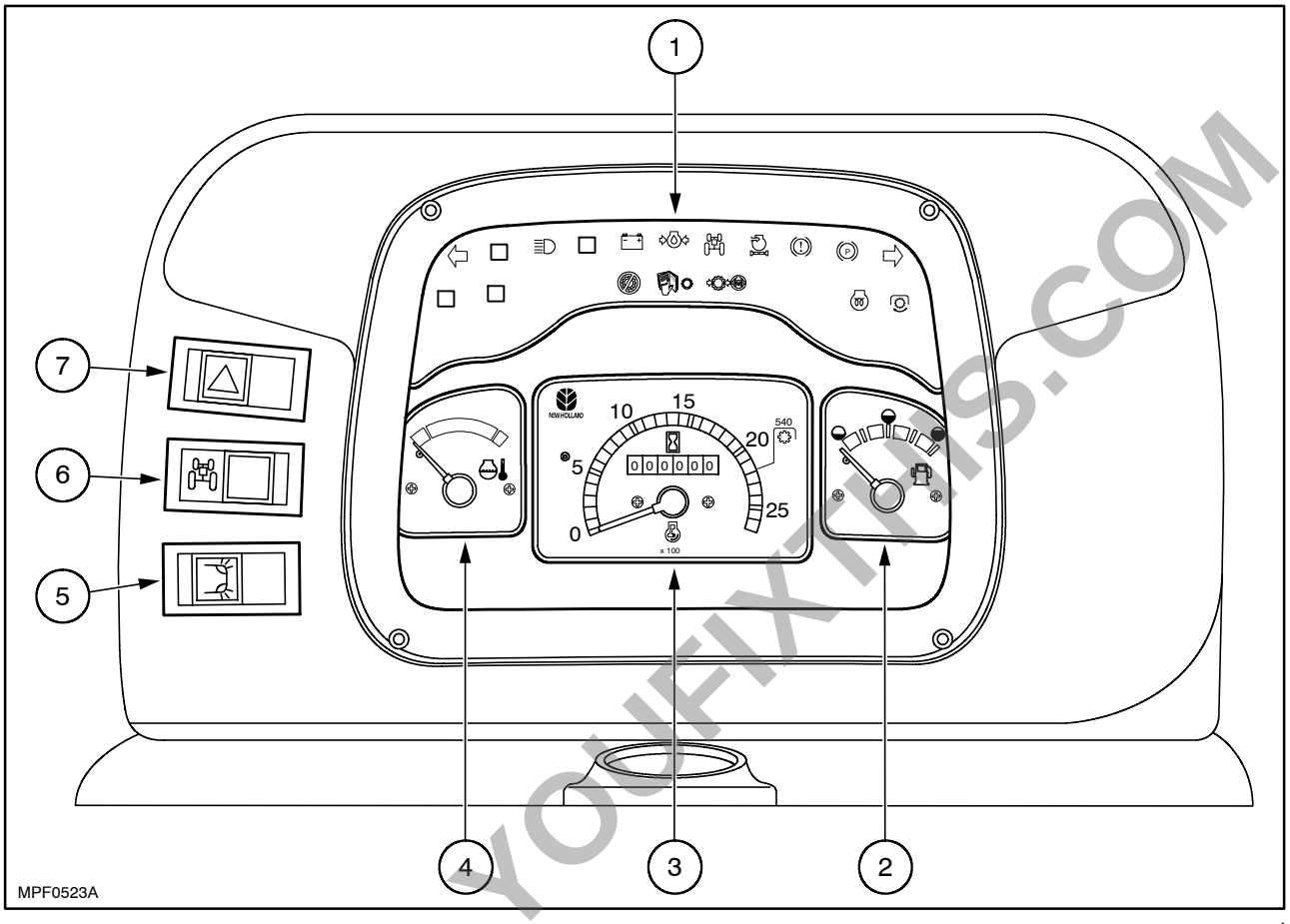
Move the throttle lever to approximately the half-way position.

Turn the starter key to position **C** (ON). then release the key as soon as the engine starts.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ANALOG INSTRUMENTS



1

1. Function indicator lights
2. Fuel gauge
3. Rev counter/hourmeter
4. Engine coolant temperature indicator
5. Swivel lights switch
6. FWD control switch
7. Flashing hazard warning lights switch

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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					●		4-9
	3.	Outlet valve, dry air filter			●				4-9
With warning light ON	4.	Main cartridge, dry air filter			●				4-10
	5.	Brake fluid reservoir	●	●					4-11
Every 10 hours	6.	Oil sump	●	●					4-12
	7.	Radiator expansion tank (model TN70A, TN75)	●	●					4-12
Every 50 hours	8.	Rear wheel hubs				●			4-13
	9.	Lift and linkage				●			4-13
	10.	Tire pressure	●						4-13
	11.	Front axle pivots FWD				●			4-14
	12.	Steering cylinder 2WD				●			4-14
	13.	Stub axle: right and left hand sides - 2WD				●			4-14
	14.	Front axle pivot 2WD				●			4-15
	15.	Fuel filter (condensation drain)			●				4-15

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Fuses for version 1 page 4-31		
Fuses	***Amps.***	***PROTECTED CIRCUITS***
1	5	Engine cut-out electromagnet.
2	15	Thermostarter.
3	15	LH tail/side lights, pin 2, 7-pole connector.
4	5	RH tail/side lights, controls and instruments lighting.
5	15	Full beam headlights.
6	15	Dipped beam headlights.
7	10	PTO safety circuit, NASO circuit + instrument common.
8	15	Rear light, swivel position lights.
9	–	Not used
10	10	Brake lights (STOP).
11	25	Direction indicator lights, hazard lights, flasher full beam circuit.
12	10	Buzzer, 8A power socket.
13	–	Not used.
14	5	Starter safety circuit.
15	–	Not used.
16	–	Not used.
Maxi-fuse		
17	40	NASO power socket.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ENGINE

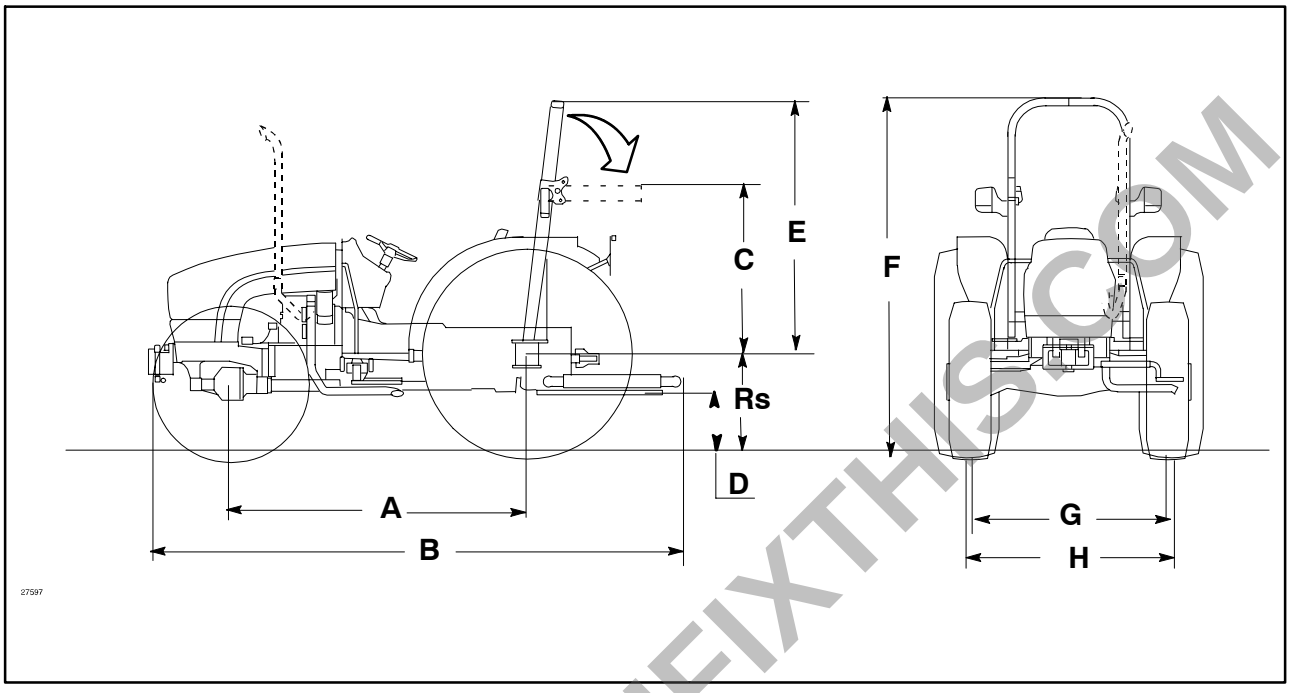
CONDITION	POSSIBLE CAUSE	SOLUTION
Engine does not reach maximum power (cont.)	Implement incorrectly set	See equipment manual
	Improper valve clearance	Check and adjust
	Idling speed. too low	Contact your dealer
Abnormal engine knocking	Oil level low	Top up fluid level
	Oil pressure low	Contact your dealer
Low engine operating temperature	Thermostat malfunction	Replace thermostat
Oil pressure low	Oil level low	Add oil as required
	Oil grade or viscosity wrong	Drain and refill with oil of correct grade and viscosity
Excessive oil consumption	Oil level too high	Reduce oil level
	Oil viscosity wrong	Use oil of correct viscosity
	Oil leaking	Repair leaks
	Breather pipe filter clogged	Replace breather pipe filter
Engine overheating	Radiator core clogged	Clean
	Engine overload	Change to lower gear or reduce load
	Engine oil level low	Top up fluid level
	Coolant level low	Top up fluid level in expansion tank. check system for leaks
	Radiator cap defective	Replace cap
	Fan belt slipping or worn	Check tensioning device. If necessary, replace the belt
Engine overheating	Cooling system clogged	Flush cooling system
	Thermostat malfunction	Check thermostat

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

DIMENSIONS FWD MODELS

Tire combinations: Front **11.2R24** Rear **420/70-30**



2

Rs = (tire radius under load)

A.	.....	mm (in.)	.....	2005 (78.9)
B.	.....	mm (in.)	.....	3602 (141.8)
C.	.....	mm (in.)	.....	1268 (49.9)
D.	.....	mm (in.)	.....	374 (14.7)
E.	.....	mm (in.)	.....	1781 (70.1)
F.	.....	mm (in.)	.....	2451 (96.5)
G.	(front track setting)	mm (in.)	.....	1236 to 1945 (48.7 to 76.6)
H.	(rear track setting)	mm (in.)	.....	1333 to 1920 (52.5 to 75.6)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

STARTING AND STOPPING

STARTING IN LOW OUTSIDE TEMPERATURE CONDITIONS

When starting the engine with low outside temperatures and when the engine is cold, proceed as follows:

- Avoid running down the battery. Any single engine starting attempt should not last longer than 15 seconds. If the engine fires but does not start, continue the attempt up to a maximum of 30 seconds.
- Wait for at least one minute between each attempt to start the engine;
- To avoid excessively running down the battery, do not make more than six attempts to start the engine.

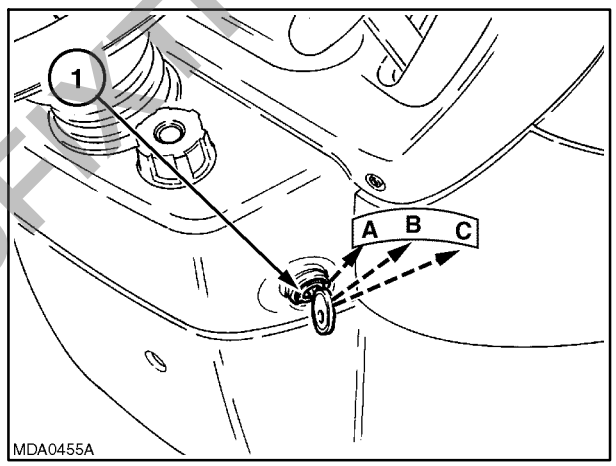
STARTER SWITCH

The key switch, 1, functions in three positions as follows:

A. No power supply to any of the circuits (key can be removed). Engine stopped: automatic activation of fuel injection cut-off.

B. Standby for engine start up. Operation of panel lights and instruments. Power supplied to various circuits.

C. Engine start up: if released, the key returns automatically to position (**B**).



1

STARTING WITH THE THERMOSTART

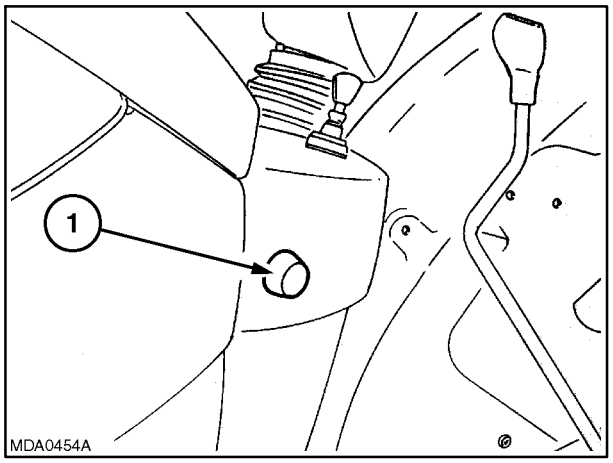
Start as follows:

Press down the clutch pedal, place the shuttle control lever in neutral to close the starting safety device switch.

Move the throttle lever to approximately the half-way position.

Turn the starter key to position **C** (ON). then release the key as soon as the engine starts.

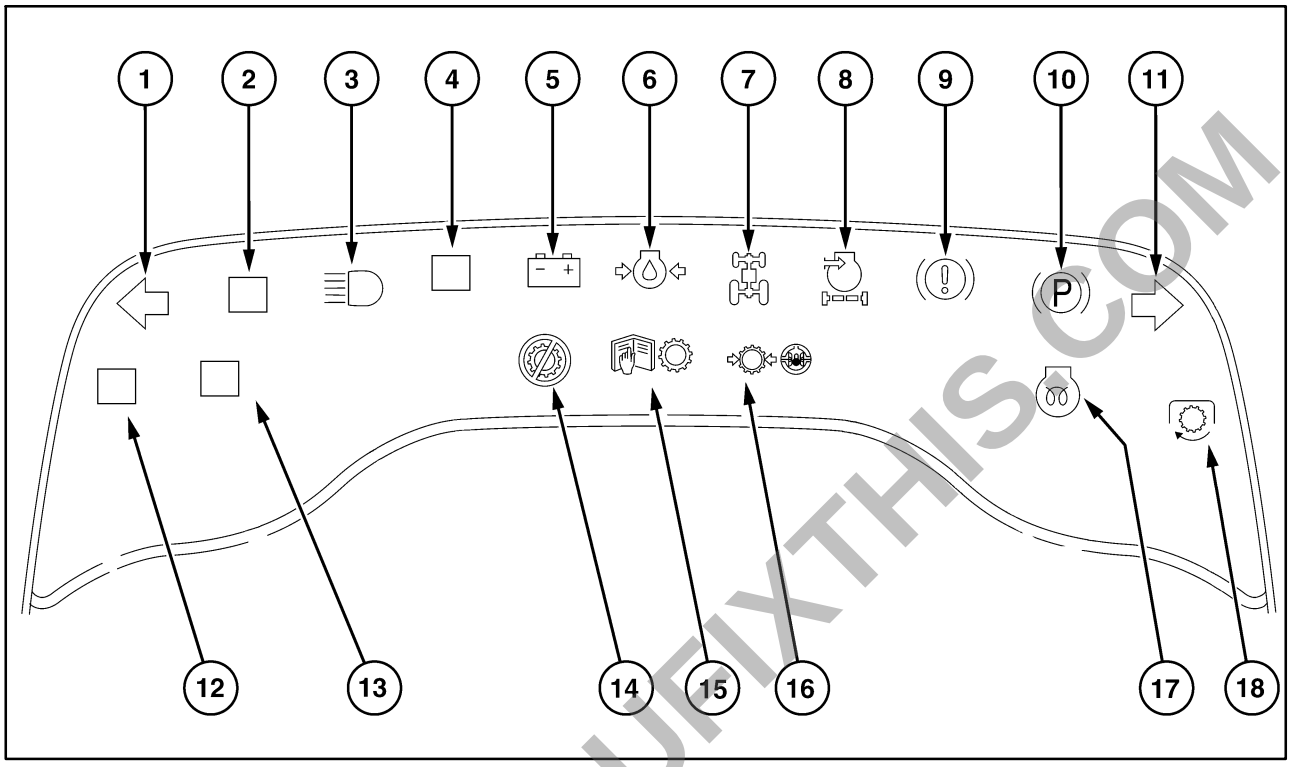
- Turn the starter key to position **B**.
- Turn on the thermostart by pressing pushbutton, 1, and hold in position for 25 seconds.
- Turn the starter key, 1, to position **C** while holding down the thermostart button until the engine starts.



2

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

INDICATOR LIGHT PANEL



2

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

2. Not available NASO market

3. Full Beam Indicators.
The light comes on when the headlamps are on full beam.

4. Not available NASO market

5. Battery charging system warning indicator
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 at engine idle 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.

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. FWD engaged indicator
Lights up when the FWD is engaged with the push button control.

8. Dry air filter clogged indicator
The light comes on when the air filter cartridge is partially or totally clogged.

9. Low brake fluid level indicator
Comes on when the fluid drops below “MIN” level.

Check periodically that the light is working properly. With the ignition key in the first position, press the lid on the brake fluid reservoir; the indicator should light up.

10. Handbrake applied indicator
When the ignition key is turned on, the light comes on with the handbrake applied.

11. Tractor right-hand turn indicator
Flashes at the same time as the right-hand turn indicators.

12. Not available NASO market

13. Not available NASO market

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Hours of work	Operation Number	Maintenance operation	Functional check	Fill-up level	Cleaning	Greasing	Adjustment	Replacement	Page
Every 300 hours	16.	Oil change, engine sump						●	4-16
	17.	Battery	●	●					4-16
	18.	Fuel filter						●	4-16
	19.	Fuel pump filter			●				4-17
	20.	Transmission oil filter and services						●	4-17
	21.	POWER-SHUTTLE oil filter						●	4-17
	22.	Engine oil filter						●	4-18
	23.	Air filter (external cartridge)			●				4-18
	24.	Transmission and lift	●	●					4-18
	25.	Front axle housing FWD	●	●					4-19
	26.	Transmission handbrake	●				●		4-19
	27.	FWD front axle final drives	●	●					4-19
	28.	Front wheels 2WD				●			4-20
	29.	Stub axles FWD				●			4-20
Every 900 hours	30.	Engine valves	●				●		4-21
Every 1200 hours or annually	31.	Air filter (internal and external cartridges)						●	4-22
	32.	Fuel tank			●				4-22
Every 1200 hours or every 2 years	33.	Front axle housing oil, FWD						●	4-23
	34.	Fuel injectors	●				●		4-23
	35.	Front axle lateral hubs oil, FWD						●	4-23
	36.	Transmission and lift oil						●	4-24
	37.	Engine cooling system						●	4-25
General maintenance	Bleed fuel system								4-27
	Bleed brake system 2WD models								4-28
	Electrical system								4-29
	Notes on bodywork maintenance								4-38

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 178 pages

The full manual includes:

- All 178 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

New Holland TN60A, TN70A, TN75A Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual