ORIGINAL INSTRUCTIONS

# OPERATOR'S MANUAL

## Workmaster™ 33
## Workmaster™ 37
Compact Tractor

PREVIEW - YOUFIXTHIS.COM

**Part number 47832587**
1st edition English
July 2015

NEW HOLLAND AGRICULTURE

Download full manual at youfixthis.com

# Contents


## 1 GENERAL INFORMATION

Note to the Owner ..... 1-1
Intended use ..... 1-2
Electro-magnetic compatibility (EMC) ..... 1-4
Manual scope and required training level ..... 1-5
Metric and imperial units abbreviations ..... 1-6
Product identification ..... 1-8
Operator's manual storage ..... 1-8
Machine orientation ..... 1-9
Exhaust Gas Recirculation (EGR) - Diesel Particulate Filter (DPF) exhaust treatment - Product overview ..... 1-10

## 2 SAFETY INFORMATION

Precautionary statements ..... 2-1
Safety rules ..... 2-2
Do not operate tag ..... 2-9
Roll Over Protection Structure (ROPS) ..... 2-10
Ecology and the environment ..... 2-11
Safety signs ..... 2-12
Instructional signs ..... 2-24
International symbols ..... 2-32

## 3 CONTROLS AND INSTRUMENTS

### OPERATOR'S SEAT

Seat belt ..... 3-1
Seat controls ..... 3-2
Roll Over Protection Structure (ROPS) ..... 3-3

### FORWARD CONTROLS

Instrument panel ..... 3-5
Engine fault codes display ..... 3-7
Cruise control ..... 3-10
Transmission shuttle shift lever ..... 3-11
Clutch pedal ..... 3-12
Brake pedals ..... 3-13
Foot throttle pedal ..... 3-14
Hand throttle lever ..... 3-15
Horn switch ..... 3-16
Power Take-Off (PTO) switch ..... 3-17
Key switch ..... 3-18
Differential lock pedal ..... 3-19
Hydrostatic Transmission (HST) control pedals ..... 3-20
Tilt steering lever ..... 3-21
Multifunction light switch ..... 3-22
DPF switch ..... 3-23


PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

# Index


**1**

12 x 12 Synchronized transmission operation . . . . . 4-32

**A**

Air cleaner inner element . . . . . 7-39
Air cleaner outer element . . . . . 7-34
Air cleaner - outer element . . . . . 7-31
Alternator . . . . . 7-45
Attaching three-point equipment . . . . . 4-11

**B**

Battery . . . . . 7-44
Biodiesel fuel . . . . . 7-3
Brake pedal free play . . . . . 7-24, 7-51
Brake pedals . . . . . 3-13
Brakes . . . . . 4-25
Brakes and controls - Park . . . . . 4-34

**C**

Capacities . . . . . 7-8
Carrying the tractor on a transporter . . . . . 5-8
Change engine coolant to Organic Acid Technology (OAT) coolant . . . . . 7-6
Clutch pedal . . . . . 3-12
Clutch pedal free play . . . . . 7-23, 7-51
Clutch - Troubleshooting . . . . . 8-2
Cold starting aids . . . . . 4-18
Cruise control . . . . . 3-10

**D**

Delivery report - dealer copy . . . . . 11-5
Delivery report - owner copy . . . . . 11-3
Diesel Particulate Filter (DPF) regeneration . . . . . 4-2
Differential lock pedal . . . . . 3-19
Do not operate tag . . . . . 2-9
DPF switch . . . . . 3-23
Driving the vehicle . . . . . 5-7

**E**

Ecology and the environment . . . . . 2-11
Electrical system - Troubleshooting . . . . . 8-4
Electro-magnetic compatibility (EMC) . . . . . 1-4
Emergency stopping . . . . . 4-24
Engine belts . . . . . 7-27, 7-33, 7-44
Engine break-in procedure . . . . . 4-1
Engine coolant . . . . . 7-40
Engine cooling system . . . . . 7-12
Engine fault codes display . . . . . 3-7
Engine oil and filter . . . . . 7-13, 7-33
Engine oil level . . . . . 7-10
Engine - Troubleshooting . . . . . 8-1
Exhaust Gas Recirculation (EGR) - Diesel Particulate Filter (DPF) exhaust treatment - Product overview . . . 1-10
Extendible drawbar . . . . . 4-14
External lighting - Identification . . . . . 5-1

**F**

Fluids and lubricants . . . . . 7-8
Foot throttle pedal . . . . . 3-14


PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

# Safety rules

## ⚠ General safety rules ⚠

Use caution when you operate the machine on slopes. Raised equipment, full tanks and other loads will change the center of gravity of the machine. The machine can tip or roll over when near ditches and embankments or uneven surfaces.

Never permit anyone other than the operator to ride on the machine.

Never operate the machine under the influence of alcohol or drugs, or while you are otherwise impaired.

When digging or using ground-engaging attachments, be aware of buried cables. Contact local utilities to determine the locations of services.

Pay attention to overhead power lines and hanging obstacles. High voltage lines may require significant clearance for safety.

Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin, causing serious injury or infection.

- DO NOT use your hand to check for leaks. Use a piece of cardboard or paper.
- Stop the engine, remove the key, and relieve the pressure before you connect or disconnect fluid lines.
- Make sure that all components are in good condition. Tighten all connections before you start the engine or pressurize the system.
- If hydraulic fluid or diesel fuel penetrates the skin, seek medical attention immediately.
- Continuous long term contact with hydraulic fluid may cause skin cancer. Avoid long term contact and wash the skin promptly with soap and water.

Keep clear of moving parts. Loose clothing, jewelry, watches, long hair, and other loose or hanging items can become entangled in moving parts.

Wear protective equipment when appropriate.

DO NOT attempt to remove material from any part of the machine while it is being operated or while components are in motion.

Make sure that all guards and shields are in good condition and properly installed before you operate the machine. Never operate the machine with shields removed. Always close access doors or panels before you operate the machine.

Dirty or slippery steps, ladders, walkways, and platforms can cause falls. Make sure these surfaces remain clean and clear of debris.

A person or pet within the operating area of a machine can be struck or crushed by the machine or its equipment. DO NOT allow anyone to enter the work area.

Raised equipment and/or loads can fall unexpectedly and crush persons underneath. Never allow anyone to enter the area underneath raised equipment during operation.

Never operate the engine in enclosed spaces as harmful exhaust gases may build up.

Before you start the machine, be sure that all controls are in neutral or park lock position.

Start the engine only from the operator's seat. If you bypass the safety start switch, the engine can start with the transmission in gear. Do not connect or short across terminals on the starter solenoid. Attach jumper cables as described in the manual. Starting in gear may cause death or serious injury.

Always keep windows, mirrors, all lighting, and Slow-Moving Vehicle (SMV) emblem clean to provide the best possible visibility while you operate the machine.

Operate controls only when seated in the operator's seat, except for those controls expressly intended for use from other locations.

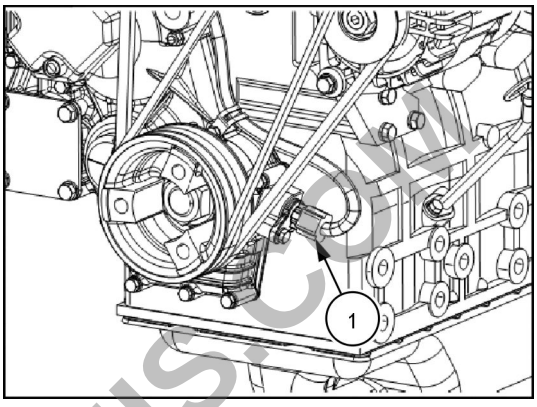
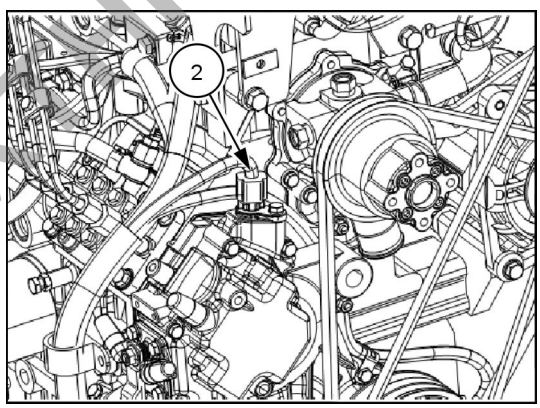
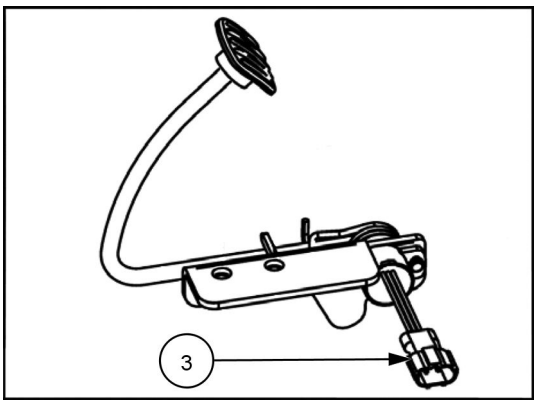
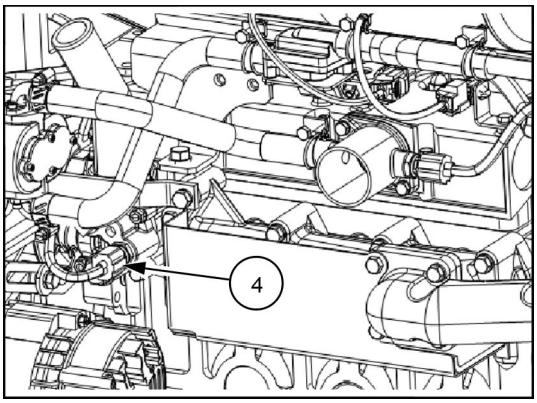
PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

# Engine fault codes display

## Engine fault codes

| Fault code | Possible cause | Check | Location |
|---|---|---|---|
| ABO2 | Main speed sensor **(1)**<br>Sub speed sensor **(2)** | Connector connection<br>Wiring harness for open or shorted circuit | <br>NHIL14CT00055AC 1<br><br>NHIL14CT00056AC 2 |
| AB04 | Foot throttle pedal position sensor **(3)** (Gear transmission tractors only) | Normal sensor signal 0.2 to 4.25 volts<br>Connector connection<br>Wiring harness for open or shorted circuit | <br>NHIL14CT00061AC 3 |
| AB07 | Engine coolant temperature sensor **(4)** | Normal sensor signal 0.11 to 25.4 ohms<br>Connector connection<br>Wiring harness for open or shorted circuit | <br>NHIL14CT00057AC 4 |

PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

# 8 - TROUBLESHOOTING

**SYMPTOM(S)**

## Engine - Troubleshooting

| Problem | Possible Cause | Correction |
|---|---|---|
| **The start motor does not rotate with the key switch in the (START) position.** | Low battery charge | Charge or replace |
| | Loose battery or starter cable terminals | Tighten the terminal |
| | Key switch faulty | Repair or replace switch |
| | Safety start switch not completing circuit | Depress clutch pedal fully |
| | PTO safety switch is not in "OFF" position | Place PTO switch in "OFF" position |
| | Starter motor faulty | Repair or replace starter motor |
| **The start motor rotates but the engine does not start** | Low battery charge | Charge or replace battery |
| | Air in fuel system | Bleed out the air |
| | Fuel filter clogged | Clean or replace the filter |
| | Fuel shutoff valve on fuel filter in closed position | Open the valve |
| | Fuel shutoff solenoid on fuel injection pump stuck in off position | Check solenoid for proper operation, repair as needed |
| **Engine speed is irregular** | Air in fuel system | Bleed the fuel system |
| | Fuel filter clogged | Clean or replace the filter |
| | Injection nozzle clogged | Repair or replace nozzle |
| | Fuel leakage | Repair fuel system |
| | Irregular fuel injection | Repair or replace fuel injection pump |
| **Engine overheating** | Lack of coolant | Add coolant as needed |
| | Fan belt slipping or belt is broken | Adjust belt tension or replace belt |
| | Dirt attached to the radiator or prescreen | Clean radiator fins or screen as needed |
| **The color of exhaust smoke is white** | Low engine operating temperature | Allow engine to obtain higher operating temperature |
| | Engine burning engine oil | Repair engine as needed |
| | Engine coolant entering engine exhaust | Repair engine as needed |
| **The color of exhaust gas is black.** | Air filter clogged | Clean or replace engine air filter |
| | Excessive fuel supply | Repair fuel injection pump as needed |
| | Faulty fuel injector | Repair or replace fuel injector |
| **Low engine power** | Fuel injector nozzle clogged | Repair injector as needed |
| | Carbon accumulation on valve seat | Repair valve and seats as needed |
| | Incorrect valve gap adjustment | Adjust valve gap to correct amount |
| | Lack of fuel supply | Check fuel system for restriction |
| | Air filter clogged | Clean or replace air filter |
| **Instrument panel engine oil pressure indicator light is "ON" during operation.** | Lack of engine oil | Add engine oil as needed |
| | Low viscosity of engine oil | Replace oil with proper viscosity type |
| | Faulty pressure switch | Replace switch |
| | Faulty engine oil pump | Repair oil pump as needed |
| | Engine oil filter clogged | Replace the filter |
| **Instrument panel battery charging indicator is "ON" during operation.** | Bad electrical connection | Check battery terminals, ground, and repair as needed |
| | Faulty alternator | Repair or replace alternator as needed |
| | Faulty battery | Replace battery |
| | Incorrect fan belt tension or belt broken | Adjust belt tension or replace belt |

PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

# Fluids and lubricants

| Lubricant | Type and Description | Part Number | Container Size | Capacity |
|---|---|---|---|---|
| Engine Oil API CJ-4 | **NEW HOLLAND AMBRA MASTERGOLD™ ENGINE OIL CJ-4 SAE 10W-30** | 9613313 | **0.946 l** (**1 US qt**) | **4.2 L** (**4.4 US qt**) |
| | | 86641052 | **3.785 l** (**1 US gal**) | |
| | | 9673508 | **18.93 l** (**5 US gal**) | |
| | **NEW HOLLAND AMBRA MASTERGOLD™ ENGINE OIL CJ-4 SAE 15W-40** | 86641081 | **0.946 l** (**1 US qt**) | |
| | | 86641082 | **3.785 l** (**1 US gal**) | |
| | | 86641083 | **18.93 l** (**5 US gal**) | |
| Transmission/ Hydraulic Oil | **NEW HOLLAND AMBRA MASTERTRAN® ULTRACTION** | 73341774 | **18.93 l** (**5 US gal**) | **32.0 L** (**8.5 US gal**) (Gear and HST) |
| | **TUTELA F200A MULTI-SEASON** | B17805 | **18.93 l** (**5 US gal**) | |
| Front Axle/Gear Oil | **NEW HOLLAND AMBRA HYPOIDE 90** | B80901 | **0.946 l** (**1 US qt**) | **5.5 L** (**5.8 US qt**) |
| | | B80903 | **9.46 l** (**2.5 US gal**) | |
| Grease | **NEW HOLLAND AMBRA GR-9 MULTI-PURPOSE GREASE** | 73340211 | Tube **14 oz** | NA |
| * Coolant | **CNH XHD HEAVY DUTY COOLANT / ANTI-FREEZE** Ethylene Glycol base* | B30204 (PREMIXED) | **3.8 L** (**1.0 US gal**) | **5.1 L** (**5.4 US qt**) |
| | | B30201 (CONCENTRATE) | **3.8 L** (**1.0 US gal**) | |
| | **NEW HOLLAND AMBRA ACTIFULL™ OT EXTENDED LIFE COOLANT** | 73341788 (PREMIXED) | **3.8 L** (**1.0 US gal**) | |
| | | 73341789 (PREMIXED) | **9.46 l** (**2.5 US gal**) | |
| | | 73341785 (CONCENTRATE) | **3.8 L** (**1.0 US gal**) | |

* OT extended life coolant to be used only after cooling system is completely drained and flushed.
Tractor originally has ethylene glycol type coolant installed.

# Capacities

The following chart lists the fluid capacities of the tractor.

| | |
|---|---|
| Engine oil | **4.2 L** (**4.4 US qt**) |
| Engine coolant | **5.1 L** (**5.4 US qt**) |
| Transmission / Hydraulic Oil | **32.0 L** (**8.5 US gal**) |
| Front axle | **5.5 L** (**5.8 US qt**) |
| Fuel tank | **28.0 L** (**7.4 US gal**) |

PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

**MAINTENANCE CHART**

# Maintenance chart

| Maintenance action | Check | Change fluid | Replace | Tighten | Grease | Test | Bleed | Drain fluid | Cleaning | Adjust | Page no. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Every 10 hours or daily | | | | | | | | | | | |
| Engine oil level | x | | | | | | | | | | **7-10** |
| Engine cooling system | x | | | | | | | | | | **7-12** |
| After first 50 hours | | | | | | | | | | | |
| Engine oil and filter | | x | | | | | | | | | **7-13** |
| Pre-fuel filter | | | x | | | | | | | | **7-15** |
| Fuel filter | | | x | | | | | | | | **7-16** |
| Hydraulic oil filter | | | x | | | | | | | | **7-17** |
| Hydrostatic (HST) oil filter | | | x | | | | | | | | **7-17** |
| Roll Over Protective Structure (ROPS) | x | | | | | | | | | | **7-18** |
| Wheels bolt/nut | | | | x | | | | | | | **7-19** |
| Every 50 hours | | | | | | | | | | | |
| Grease fittings | | | | | x | | | | | | **7-20** |
| Transmission fluid level | x | | | | | | | | | | **7-22** |
| Clutch pedal free play | | | | | | | | | | x | **7-23** |
| Brake pedal free play | | | | | | | | | | x | **7-24** |
| Hydrostatic transmission (HST) neutral adjustment | | | | | | | | | | x | **7-25** |
| Engine belts | x | | | | | | | | | | **7-27** |
| Tires and wheels | x | | | | | | | | | | **7-28** |
| Front axle differential oil level | x | | | | | | | | | | **7-30** |
| Air cleaner - outer element | | | | | | | | | x | | **7-31** |
| Every 100 hours | | | | | | | | | | | |
| Fuel filter | | | | | | | | x | | | **7-32** |
| Every 300 hours | | | | | | | | | | | |
| Engine oil and filter | | x | | | | | | | | | **7-33** |
| Hydraulic filter | | | x | | | | | | | | **7-33** |
| Hydrostatic (HST) oil filter - HST system | | | x | | | | | | | | **7-33** |
| Pre-fuel filter | | | x | | | | | | | | **7-33** |
| Engine belts | x | | | | | | | | | | **7-33** |
| Wheels bolt/nut | | | | x | | | | | | | **7-33** |
| Air cleaner outer element | | | x | | | | | | | | **7-34** |
| Every 500 hours | | | | | | | | | | | |
| Fuel filter | | | x | | | | | | | | **7-35** |
| Every 600 hours | | | | | | | | | | | |
| Front axle differential fluid | | x | | | | | | | | | **7-36** |
| Transmission fluid | | x | | | | | | | | | **7-38** |
| Every 1000 hours | | | | | | | | | | | |
| Air cleaner inner element | | | x | | | | | | | | **7-39** |
| Engine coolant | | | | | | | | x | | | **7-40** |
| General maintenance | | | | | | | | | | | |
| Fuel injection system - Bleed | | | | | | | x | | | | **7-42** |
| Hydrostatic transmission (HST) neutral adjustment | | | | | | | | | | x | **7-44** |
| Engine belts | | | | | | | | | | x | **7-44** |
| Roll Over Protective Structure (ROPS) frame - Replace - Possible damage | | | x | | | | | | | | **7-44** |
| Battery | | | | | | x | | | | | **7-44** |

PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

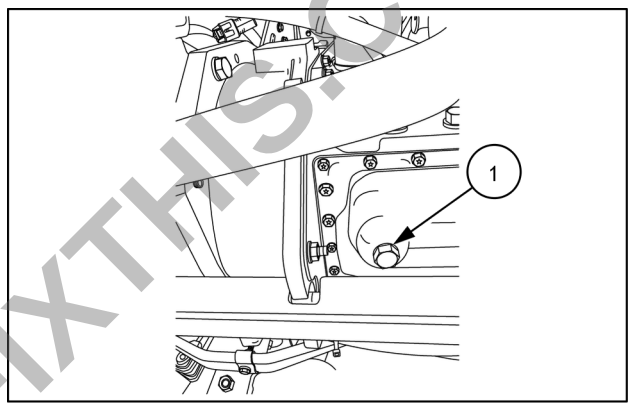
**After first 50 hours**

# Engine oil and filter

***NOTE:*** *Change the engine oil and filter after the first 50 hours of operation, then every 300 hours thereafter. If the tractor is operated for extended periods of time at maximum rated power and speed, or under other types of continuous, severe operating conditions, the engine oil and filter should be changed at 200 hour intervals following the initial oil change.*

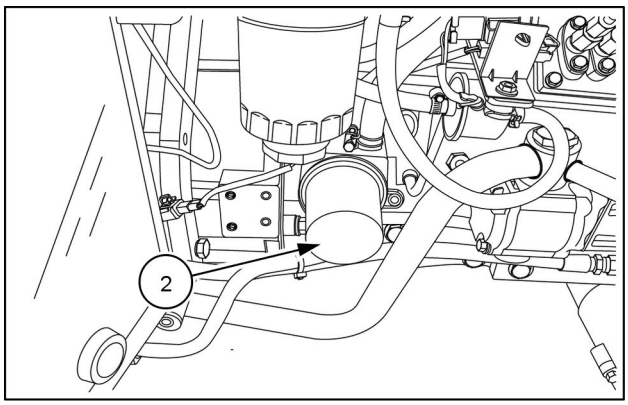
To change the engine oil:

1. Place a suitable container beneath the drain opening to catch the used oil. With the tractor engine off but at normal operating temperature, remove the drain plug, **(1)**. located at the right-hand rear side of the engine oil pan. Reinstall the plug after all of the oil has been drained.




NHIL13CT01042AA 1

2. Next, place a container below the oil filter, **(2)**, to catch the used oil and unscrew the oil filter. Discard the used oil and filter.
3. Coat the gasket on the new filter with a film of clean oil. Screw the filter into place until the gasket contacts its mating surface, then turn the filter approximately three-quarters of a turn by hand. Do not overtighten.

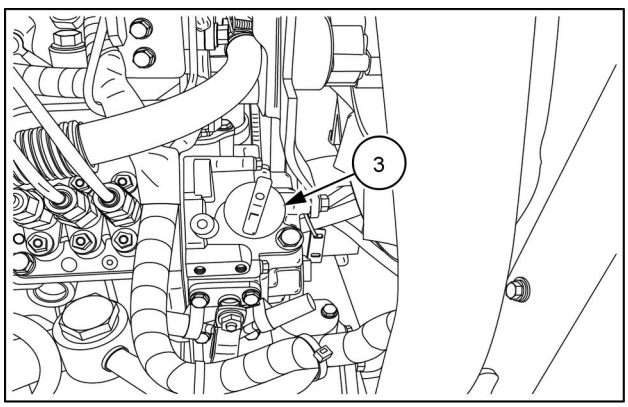



NHIL13CT01038AA 2

4. Add the proper type and level of new oil at fill port **(3)** , then start the engine and check the filter for leaks.

***NOTE:*** *Oil Capacity, with filter* ***4.2 l (4.4 US qt)***

***NOTICE:*** *Use of any engine oil other than (CJ-4) may clog the (DPF) earlier than expected and fuel usage may increase.*




NHIL13CT01040AA 3



Download full manual at youfixthis.com

# General specifications

| | Model Workmaster 33 Hydrostatic/Gear | Model Workmaster 37 Hydrostatic/Gear |
|---|---|---|
| **Engine** | | |
| Type | Diesel | Diesel |
| Model | N843T-F-24 | N843T-F-27 |
| Emission level (tier) | 4 | 4 |
| Aspiration | Turbo | Turbo |
| Engine gross horsepower | **24 kW** (**32.2 Hp**) | **27 kW** (**36.2 Hp**) |
| Cylinders | 3 | 3 |
| Bore | **84 mm** (**3.3 in**) | **84 mm** (**3.3 in**) |
| Stroke | **90 mm** (**3.5 in**) | **90 mm** (**3.5 in**) |
| Displacement | **1.496 L** (**91.3 in³**) | **1.496 L** (**91.3 in³**) |
| Compression ratio | 22.2:1 | 22.2:1 |
| Firing order | 1-2-3 | 1-2-3 |
| Low idle speed | **1000 - 1100 RPM** (**1000 - 1100 RPM**) | **1000 - 1100 RPM** (**1000 - 1100 RPM**) |
| Maximum speed : | | |
| High Idle | **2800 - 2850 RPM** (**2800 - 2850 RPM**) | **2800 - 2850 RPM** (**2800 - 2850 RPM**) |
| Rated | **2600 RPM** | **2600 RPM** |
| Valve clearance (cold) | | |
| Intake | **0.2 mm** (**0.008 in**) | **0.2 mm** (**0.008 in**) |
| Exhaust | **0.25 mm** (**0.010 in**) | **0.25 mm** (**0.010 in**) |
| | | |
| Block type: | | |
| | Cast iron | Cast iron |
| Lubrication: | | |
| | Pressure feed by oil pump | Pressure feed by oil pump |
| | | |
| **Capacities** | | |
| Fuel tank | **28 L** (**7.4 US gal**) | **28 L** (**7.4 US gal**) |
| Cooling system | **5.1 L** (**5.4 US qt**) | **5.1 L** (**5.4 US qt**) |
| Engine crankcase: | | |
| With Filter | **4.2 L** (**4.4 US qt**) | **4.2 L** (**4.4 US qt**) |
| Rear axle & transmission (Includes hydraulics) | | |
| Gear | **32 l** (**8.5 US gal**) | **32 l** (**8.5 US gal**) |
| HST | **32 l** (**8.5 US gal**) | **32 l** (**8.5 US gal**) |
| Front axle | **5.5 l** (**5.8 US qt**) | **5.5 l** (**5.8 US qt**) |
| | | |
| **Cooling system** | | |
| Type | Pressurized liquid with recirculating bypass | Pressurized liquid with recirculating bypass |
| Water pump: | | |
| Type | Centrifugal | Centrifugal |
| Drive | V-Belt | V-Belt |
| Belt deflection | **10 - 13 mm** (**0.4 - 0.5 in**) when **10 kg** (**22 lb**) pressure is applied midway between belt pulleys | **10 - 13 mm** (**0.4 - 0.5 in**) when **10 kg** (**22 lb**) pressure is applied midway between belt pulleys |
| Fan diameter | **380 mm** (**15.0 in**) | **380 mm** (**15.0 in**) |
| Thermostat: | | |
| Start to open | **82 °C** (**179.6 °F**) | **82 °C** (**179.6 °F**) |
| Fully Open | **95 °C** (**203 °F**) | **95 °C** (**203 °F**) |
| Radiator cap | **90 kPa** (**12.8 psi**) | **90 kPa** (**12.8 psi**) |
| | | |

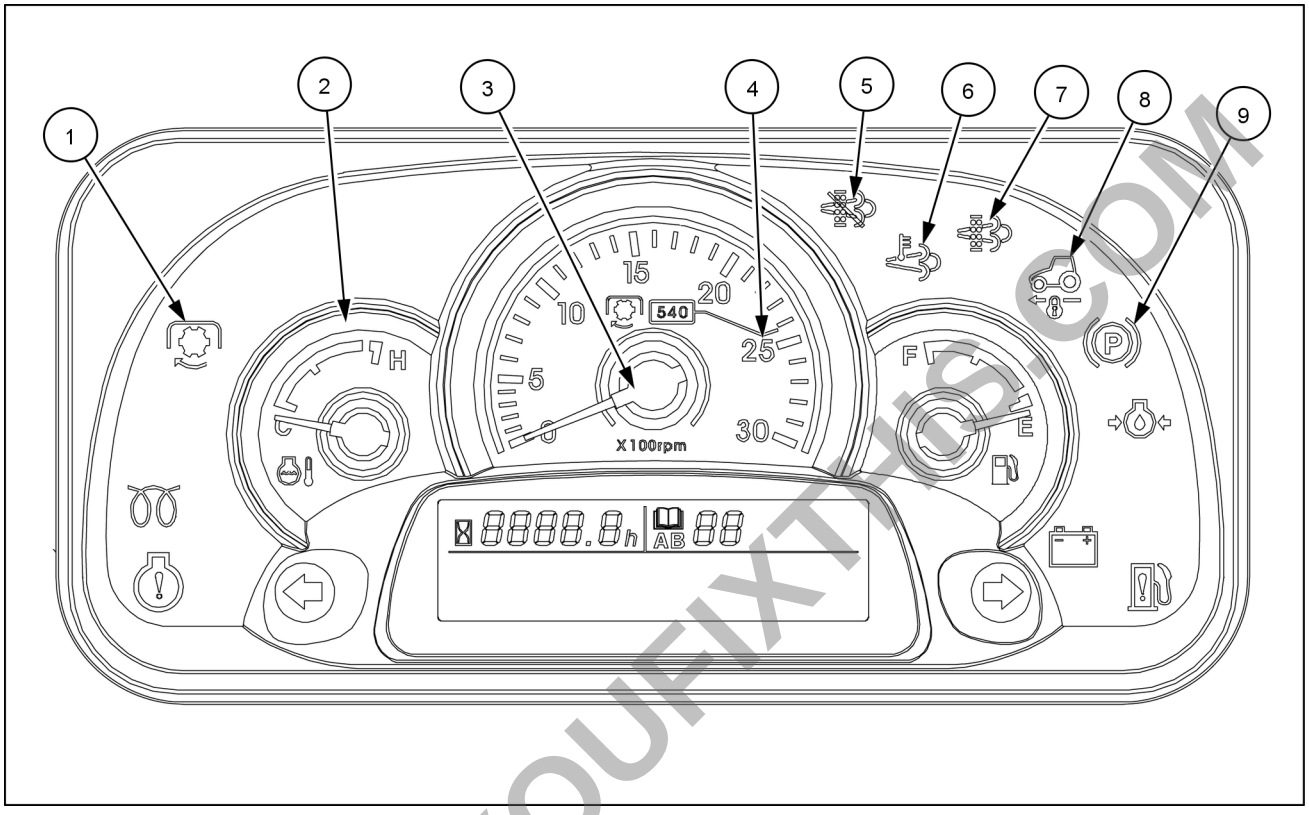
PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

## FORWARD CONTROLS

# Instrument panel




NHIL14CT00054FA 1

1. PTO Indicator Light - When either the rear or mid PTO is engaged, the indicator will be illuminated amber with the key in the "START" or "ON" positions.
2. Temperature Gauge - Indicates coolant temperature. It is activated when the key switch is turned to the "ON" position. The gauge will register cold with the key switch in the "OFF" position. If the needle registers in the white range of the gauge, this indicates a normal operating temperature. If the needle moves to the red portion of the gauge, this indicates an overheated condition. Stop the tractor engine immediately and investigate the cause.
3. Tachometer - Registers engine rpm (Revolutions Per Minute). The gauge is marked in increments of 100 and will return to zero when the engine is not running.
4. PTO Speed Indicator - Determined by the position of the needle on the tachometer. The tachometer is marked to indicate **540 RPM** of PTO. If the needle registers above the **540 RPM** mark, this indicates a dangerous over speed condition, and the engine rpm should be reduced immediately.
5. Diesel Particulate Filter (DPF) Inhibited Indicator Light - This indicator light will be illuminated when the (DPF) switch is placed in the inhibited position, to indicate the regeneration of the (DPF) is stopped.
6. Diesel Particulate Filter (DPF) Temperature Indicator Light - This indicator light will be illuminated when the engine exhaust temperature is sufficient for the regeneration of the (DPF) to start.
7. Diesel Particulate Filter (DPF) Regeneration Indicator Light - This indicator light will be illuminated either continuous or blinking, when the regeneration of the (DPF) is in operation. The regeneration is started when the (DPF) soot load is over 60% or every four hours of operation and the engine exhaust temperature is at a sufficient temperature for regeneration to start.
8. Cruise Control Indicator Light (HST only) - Illuminates amber with the key switch in the "ON" position and the cruise control rocker switch is engaged.
9. Park Brake Indicator Light - Illuminates if the park brake is engaged with the key switch rotated from the "OFF" position.

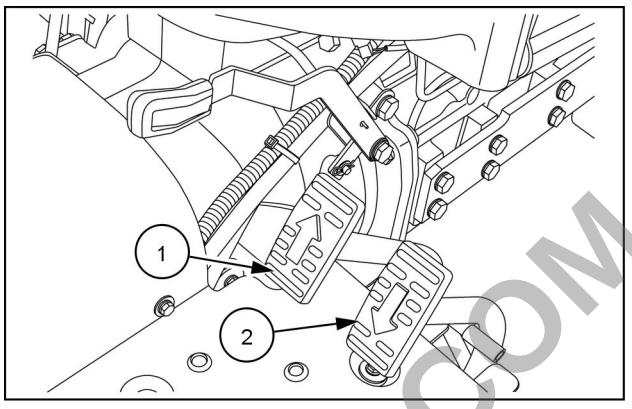
PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

# Hydrostatic Transmission (HST) operation

The ground speed of tractors equipped with a hydrostatic transmission is continuously variable, from zero to full rated speed in each range. Speed is controlled by the HST forward **(1)** and reverse **(2)** pedals located on the right-hand operators platform.



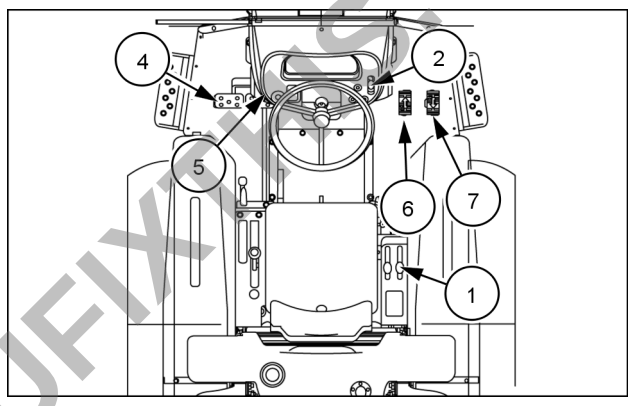

NHIL12CT00693AA 1

To operate the HST transmission, carry out the following:

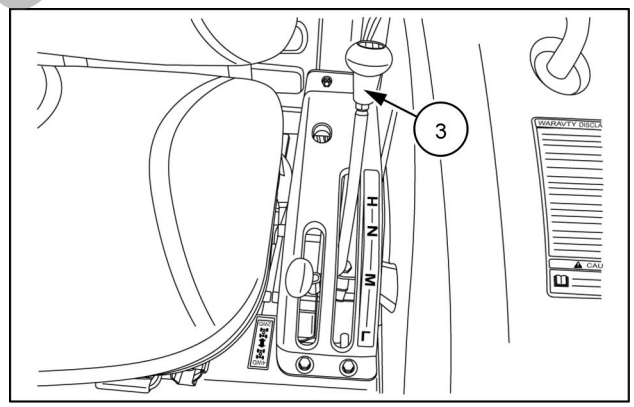
1. Start the engine and pull the HPL control lever **(1)** rearward to lift the implement off the ground (if equipped).
2. Move the hand throttle lever **(2)** forward until the engine speed is above **1500 RPM**.
3. Place the range gear shift lever **(3)** in the desired range.
4. Depress the brake pedals **(4)** and disengage the park brake lever **(5)**.
5. For forward travel, depress the forward pedal **(6)** until the desired ground speed is reached. For reverse travel, depress the rear pedal **(7)**. The transmission returns to neutral and the tractor stops when the pedal is released.

   ***NOTE:*** *Depress the HST pedals slowly, fast movement of the pedals will cause the tractor to move suddenly.*

   ***NOTE:*** *To change the range speed, release the HST pedals and bring the tractor to a stop and select the desired range.*




93100853 2




NHIL12CT00680AA 3

PREVIEW - YOUFIXTHIS.COM



Download full manual at youfixthis.com

# PREVIEW ONLY

You're viewing 12 of 218 pages

## The full manual includes:

- All 218 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

**New Holland Workmaster 33, Workmaster 37 Operator Manual**

**Scan or click anywhere**
**youfixthis.com**

*Click anywhere on this page to get the full manual*