ORIGINAL INSTRUCTIONS

OPERATOR'S MANUAL

TS6.110
TS6.110 HC
TS6.120
TS6.120 HC
TS6.125
TS6.140
Tier 3
Tractor

Part number 90456320
1st edition English
January 2021

MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, TS6.140 Tier 3 Tractor Operator's Manual | Publication 90456320
Order the manual at mid-west-tech.com >

Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Note to the owner 1-2
Intended use 1-3
Electro-Magnetic Compatibility (EMC) 1-4
Product identification 1-5
Operator's manual storage on the machine 1-7
Machine orientation 1-8
Machine components 1-9

2 SAFETY INFORMATION

Safety rules 2-1
Ecology and the environment 2-12
Safety features 2-13
Safety signs 2-16
Instructional signs 2-28

3 CONTROLS AND INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Proper entry and exit 3-1

OPERATOR'S SEAT

Operator seat adjustments 3-3
Seat belt operation 3-7

FORWARD CONTROLS

Instrument panel 3-8
Warning and status indicators 3-9
Front console 3-12
Foot pedals 3-14

LEFT-HAND SIDE CONTROLS

Power Take-Off (PTO) 3-16
Parking brake 3-18
Door and window operation 3-19
Storage 3-19

RIGHT-HAND SIDE CONTROLS

Transmission controls 3-20
Hydraulic controls - Tractors equipped with Bosch remote control valves 3-22
Right-hand console 3-25
Fuses and relays location 3-26
Fuse location with cab 3-27

MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >

Relay location with cab 3-28
Fuse and relay location with Roll Over Protection System (ROPS) 3-29
Door and window operation 3-31

REARWARD CONTROLS

Rear window operation 3-32
Rear window wiper 3-32

OVERHEAD CONTROLS

Climate controls 3-33
Cab air louvers 3-33
Sun shades 3-34
Radio or audio system 3-35
Dome light 3-35

EXTERIOR CONTROLS

Remote control valves - Tractors equipped with Bosch remote control valves 3-36
External Hydraulic Power Lift (HPL) controls 3-37

4 OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Run in period of a new machine 4-1
Roll Over Protective Structure (ROPS) 4-2
Instrument panel 4-4
Instrument cluster 4-5
Multifunctional light switch 4-7
General transmission operation 4-8
Identify creeper gear engagement process 4-10
Creeper gears 4-12
Creeper gears 4-15
Creeper gears 4-23
Four-Wheel Drive (4WD) 4-26
Differential lock 4-27
Hydraulic system 4-28
Hydraulic remote control valves - Tractors equipped with Bosch remote control valves 4-30
Connecting remote cylinders - Tractors equipped with Bosch remote control valves 4-33
Bleeding remote cylinders - Tractors equipped with Bosch remote control valves ... 4-35
Operating single-acting hydraulic cylinders - Tractors equipped with Bosch remote control valves 4-36
Operating double-acting hydraulic cylinders - Tractors equipped with Bosch remote control valves 4-37
Operating continuous flow hydraulic equipment - Tractors equipped with Bosch remote control valves 4-38
Adjusting the drawbar 4-40
Hitch operation 4-43
Power Take-Off (PTO) operation 4-48

MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >

STARTING THE UNIT
Starting the engine 4-55
Engine starting aids 4-58

STOPPING THE UNIT
Driving and stopping the tractor 4-60
Hydraulic trailer brakes 4-62

MOVING THE UNIT
Steering control 4-63

5 TRANSPORT OPERATIONS
ROAD TRANSPORT
Basic instructions 5-1

RECOVERY TRANSPORT
Towing the tractor 5-2

6 WORKING OPERATIONS
GENERAL INFORMATION
Alternator protection 6-1

7 MAINTENANCE
GENERAL INFORMATION
Maintenance and service schedule 7-1
Torque specifications 7-3
Standard torque data for hydraulic tubes and fittings 7-8
Biodiesel fuel 7-10
Fluid capacities and lubricant specifications 7-11
Organic Acid Technology (OAT) coolant 7-14
Opening the hood 7-16
Fueling the machine 7-17

MAINTENANCE CHART
Maintenance chart 7-18

Warning light on
Service air filter when warning light illuminates 7-20

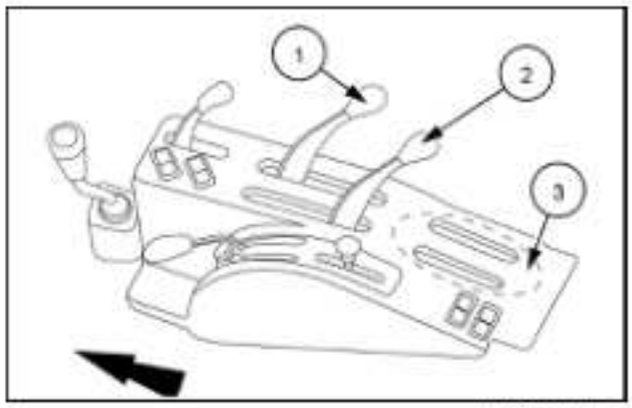
Every 10 hours or daily
Engine oil level 7-22
Radiator, oil cooler, and condenser 7-23
Engine cooling system 7-25
Fuel filter water separator 7-26

MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >

The following hydraulic controls are located on the right-hand side of the operator's seat. Each control lever is color coded. These colors match the set of hydraulic control valves located on the rear of the tractor.

- **(1)** – Remote control valve lever (green).
  Used to operate external hydraulic cylinders, motors, etc.
- **(2)** – Remote control valve lever (blue).
  Used to operate external hydraulic cylinders, motors, etc.
- **(3)** – Deluxe remote control valve levers (brown and black) (optional).
  Used to operate external hydraulic cylinders, motors, etc.

NOTE: *Lever movements: central position for neutral (closed), partially forward to lower the implement, fully forward for the float feature, and backward to raise the implement.*

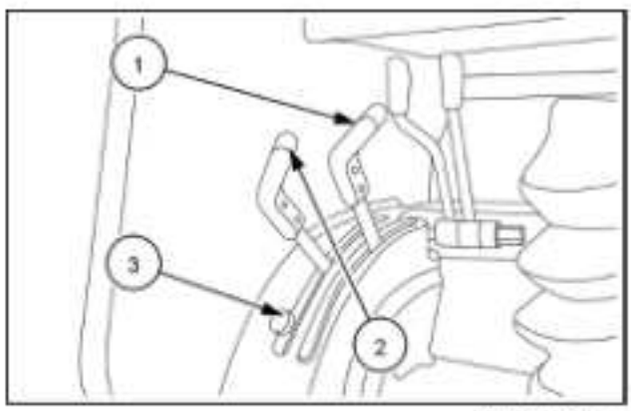


NHL11TR000SAA 2

Hydraulic control levers (with cab)

The following hydraulic controls are located on the right-hand side of the operator's seat and operate the movement of the upper link on the three-point hitch linkage.

- **(1)** – System selector
  Used to select either Draft or Position control based on the type of implement being used.
- **(2)** – Lift control lever
  Used to raise and lower the three-point linkage and implement to a specified height or working depth.
- **(3)** – Adjustable lock
  Allows the operator to set a limit or range on the Lift control lever, indirectly controlling the range of movement on the three-point hitch linkage and attached implement.



NHL13TR000ZAA 3

MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >

7 - MAINTENANCE

GENERAL INFORMATION

Maintenance and service schedule

⚠DANGER

Improper operation or service of this machine can result in an accident.
Do not operate this machine or perform any lubrication, maintenance, or repair on it until you have read and understood the operation, lubrication, maintenance, and repair information.
Failure to comply will result in death or serious injury.

D0016A

⚠WARNING

Maintenance hazard!
Always perform all service procedures punctually at the intervals stated in this manual. This ensures optimum performance levels and maximum safety during machine operation.
Failure to comply could result in death or serious injury.

W0132A

⚠WARNING

Improper operation or service of this machine can result in an accident.
Before working on any component(s) of the electrical circuit, put the starter switch key in the off (shut down) position. When disconnecting batteries, always disconnect the negative (-) cable first. When reconnecting batteries, always connect the negative (-) cable last.
Failure to comply could result in death or serious injury.

W0264A

⚠WARNING

Avoid injury!
1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W1167A

NOTICE: *While any company can perform necessary maintenance or repairs on your equipment, NEW HOLLAND strongly recommends that you use only authorized NEW HOLLAND dealers and products that meet given specifications. Improperly or incorrectly performed maintenance and repair voids the equipment warranty and may affect service intervals.*

This section details the necessary requirements to keep your machine working at its maximum efficiency. A lubrication and maintenance chart summarizes the requirements. If you have questions regarding any lubrication or service issue, contact your NEW HOLLAND Dealer.

Flexibility of service intervals

The intervals described in the lubrication and service charts are conditions that should be met under normal working conditions. Adjust the intervals according to the environmental working conditions. Shorten the intervals in adverse working conditions (rain, mud, sand, and dust).

Preventing system contamination

In order to avoid contamination when changing the oil, filters, etc., always clean the area surrounding the component to be serviced. Before attaching cylinders to the remote control, make sure the oil inside them is clean, not contam-

MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >

Liquid ballast

⚠WARNING

Hazardous chemicals!
SLOWLY add calcium chloride flakes to water, stirring continuously. To avoid a violent reaction, NEVER add water to calcium chloride.
If any flakes contact the eyes, flush the eyes immediately with clean, cold water for at least 15 minutes. Seek medical assistance immediately.
Failure to comply could result in death or serious injury.

W0188A

NOTE: *The front tires do not have air/water valves fitted as a standard feature. Contact your NEW HOLLAND dealer or tire provider for valve installation details.*

NOTE: *Special equipment is required to fill tires with liquid or a calcium chloride solution. Contact your NEW HOLLAND dealer or tire provider for equipment and procedure details.*

Filling the front and rear tires with liquid counterweight is a convenient method of adding weight. We recommend using a water and calcium chloride solution. This way you reduce the freezing point and obtain greater density than you would with water alone.

NOTE: *When filling a tire with the water and calcium chloride solution, the valve should be left in the upper part of the wheel. To check or adjust the pressure, if the tire has a liquid counterweight, the valve should be located in the lower part of the wheel.*

In the following table you will find the amount of calcium chloride and water added for each tire size based on the **0.6 kg (1.3 lb)** calcium chloride solution per liter of water.

The figures of this table give a filling to **90%** of the front tires and **75%** of the rear tires.

Front wheels				
Level of the fill valve **90%**				
		Calcium Chloride (CaCl)	Water	Total weight
Tire size	Rim size	Weight	Volume	per wheel
10.00 - 16	W8L	**34.5 kg (76 lb)**	**57.5 l (15.2 US gal)**	**91.6 kg (202 lb)**
12.4 - 24	W11	**56.7 kg (125 lb)**	**94.6 l (25 US gal)**	**151.0 kg (333 lb)**
12.4 - 28	W11	**63.5 kg (140 lb)**	**106.0 l (28 US gal)**	**169.6 kg (374 lb)**
12.5 - 80	W9	**68.0 kg (150 lb)**	**60.6 l (16 US gal)**	**104.3 kg (230 lb)**
13.6 - 24	W12	**68.0 kg (150 lb)**	**113.6 l (30 US gal)**	**181.4 kg (400 lb)**
13.6 - 28	W12	**79.4 kg (175 lb)**	**132.5 l (35 US gal)**	**211.8 kg (467 lb)**
14.9 - 24	W13	**86.2 kg (190 lb)**	**143.8 l (38 US gal)**	**230.0 kg (507 lb)**
14.9 - 28	W13	**97.5 kg (215 lb)**	**162.8 l (43 US gal)**	**260.4 kg (574 lb)**

Rear wheels				
Level of the fill valve **75%**				
		Calcium Chloride (CaCl)	Water	Total weight
Tire size	Rim size	Weight	Volume	Per wheel
12.4 - 42	W11	**88.5 kg (195 lb)**	**147.6 l (39 US gal)**	**235.9 kg (520 lb)**
13.6 - 38	W12	**104.3 kg (230 lb)**	**174.1 l (46 US gal)**	**278.5 kg (614 lb)**
16.9 - 30	W15L	**133.8 kg (295 lb)**	**223.3 l (59 US gal)**	**357.0 kg (787 lb)**
18.4 - 30	DW16	**163.3 kg (360 lb)**	**272.5 l (72 US gal)**	**435.4 kg (960 lb)**
18.4 - 34	DW16	**163.3 kg (360 lb)**	**306.6 l (81 US gal)**	**490.3 kg (1081 lb)**
18.4 - 38	W16A	**201.8 kg (445 lb)**	**336.9 l (89 US gal)**	**538.4 kg (1187 lb)**
19.5L-24	DW16L	**95.3 kg (210 lb)**	**227.1 l (60 US gal)**	**322.1 kg (710 lb)**
23.1 - 30	DW20	**263.1 kg (580 lb)**	**439.1 l (116 US gal)**	**701.7 kg (1547 lb)**

MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >

IMPORTANT
To protect engine and hydraulic components

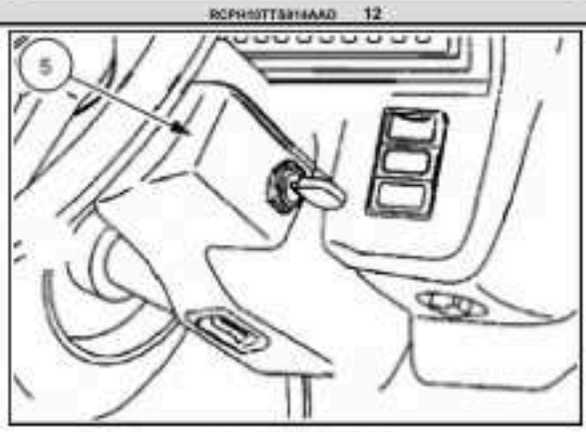
- **Idle engine for 1 minute before shutdown after full load operation.**
- **DO NOT exceed 1/2 throttle for the first 5 minutes of operation.**

Quantity: 1
English: 83919977
Spanish: 73338266



12

(5) Located on the right-hand side of the steering wheel.



13

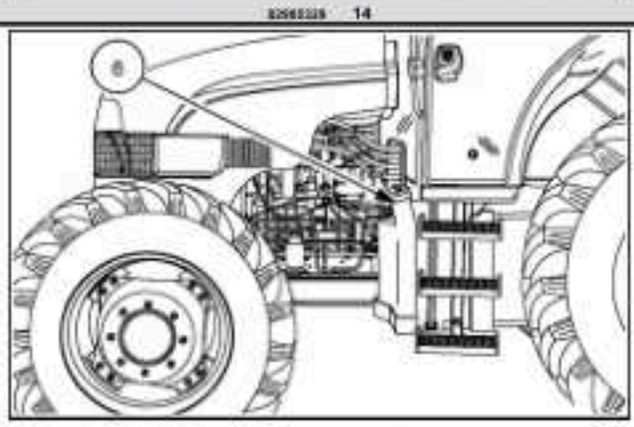
Diesel fuel only.

Quantity: 1
English: 82985329



14

(6) Located on the left-hand side of the machine on the fuel tank cap.



15

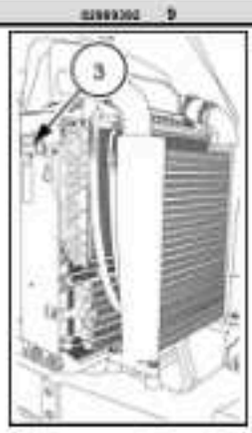
MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >

CAUTION
DO NOT remove the radiator cap.
Use the expansion tank to refill.
Failure to comply could result in minor or moderate injury.

Quantity: 1
English: 82989392
Spanish: 82989339



(3*) Located on the upper right-hand side of the radiator.



MidWestTech | New Holland TS6.110, TS6.110 HC, TS6.120, TS6.120 HC, TS6.125, T... Order the manual at mid-west-tech.com >