ORIGINAL INSTRUCTIONS

OPERATOR'S MANUAL

Boomer™ 45
Boomer™ 50
Boomer™ 55
Tier 4B (final)

Compact Tractor

Boomer™ 45 Cab: PIN LSM0B45C0N002000I and after; ROPS: PIN LSM0B45R0N002000I and after
Boomer™ 50 Cab: PIN LSM0B50C0N002000I and after; ROPS: PIN LSM0B50R0N002000I and after
Boomer™ 55 Cab: PIN LSM0B55C0N002000I and after; ROPS: PIN LSM0B55R0N002000I and after

Part number 91800912
1st Edition English
August 2022

CE

NEW HOLLAND AGRICULTURE

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Manual | Publication 91800912
Order the manual at mid-west-tech.com >

Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Tractor intended use 1-2
Emissions overview 1-4
Electro-Magnetic Compatibility (EMC) 1-7
Manual scope 1-8
Product Identification Number (PIN) 1-10
Product Identification Number (PIN) Roll-Over Protective Structure (ROPS) 1-12
Operator's manual storage on the machine - Roll Over Protective Structure (ROPS) 1-13
Operator's manual storage on the machine - Cab 1-13
Machine orientation - Roll Over Protective Structure (ROPS) 1-14
Machine orientation - Cab 1-15

2 SAFETY INFORMATION

Safety rules and signal word definitions 2-1
Safety rules 2-2
Do not operate tag 2-10
Folding Roll Over Protective Structure (ROPS) 2-11
Starting up the machine safely 2-12
Stopping the machine safely 2-17
Ecology and environment 2-18
Safety signs - Cab 2-19
Safety signs - Roll Over Protective Structure (ROPS) 2-33
Instructional signs - Cab 2-48
Instructional signs - Roll Over Protective Structure (ROPS) 2-57

3 CONTROLS AND INSTRUMENTS

Access to operator's platform

Operator's platform access - Roll Over Protective Structure (ROPS) 3-1
Operator's platform access (Cab) 3-2
Cab side window 3-3
Cab rear window 3-3

Operator's seat

Operator's switch - Location and function 3-4
Seat belt - Cab 3-5
Seat belt - Roll Over Protective Structure (ROPS) 3-6
Seat controls - Cab - Suspension seat 3-7
Seat controls - Roll Over Protective Structure (ROPS) 3-9

Forward controls

Component location - Cab 3-10
Component location - Roll Over Protective Structure (ROPS) 3-11

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >

Component location - Mechanical transmission 3-12
Component location - Hydrostatic Transmission (HST) 3-13
Instrument panel 3-14
Engine fault code display 3-19
Cruise control 3-26
Transmission shuttle shift lever 3-27
Clutch pedal 3-28
Brake pedals 3-29
Foot throttle pedal 3-29
Hand throttle lever 3-30
Horn switch 3-31
Hazard light switch 3-32
Power Take-Off (PTO) switch 3-33
Key switch 3-34
Differential lock pedal 3-35
Hydrostatic Transmission (HST) foot pedals 3-36
Tilt steering lever 3-37
Multifunction light switch 3-38
DPF switch 3-38
Beacon switch (Beacon is optional) 3-39

Left-hand side controls

Left-hand controls - Cab 3-40
Transmission range lever - Mechanical models 3-42
Power Take-Off gear lever (optional) 3-43
Front Wheel Drive (FWD) lever - Cab 3-44
Mid Power Take Off (PTO) - Handle (optional) 3-46
Ground Speed PTO (GSP) lever (optional) 3-47

Right-hand side controls

Right-hand controls - Cab 3-48
Left-hand / Right-hand controls - Roll Over Protective Structure (ROPS) 3-50
Parking brake - Cab 3-52
Parking brake - Roll Over Protective Structure (ROPS) 3-53
Engine Speed Management (ESM) switch – Roll Over Protective Structure (ROPS) 3-54
Engine Speed Management (ESM) Up/Down switch – Roll Over Protective Structure (ROPS) 3-55
Engine Speed Management (ESM) switch – Cab 3-56
Engine Speed Management (ESM) Up/Down switch – Cab 3-57
Hydraulic Power Lift (HPL) - Cab 3-58
Hydraulic Power Lift (HPL) - Roll Over Protective Structure (ROPS) 3-59
Draft control - Cab (Optional) 3-60
Draft control - Roll Over Protective Structure (ROPS) (Optional) 3-61
Rear remote control valves - Cab 3-62
Rear remote control valves - Roll Over Protective Structure (ROPS) 3-63
Mid mount two spool control valve - Cab 3-64
Mid mount two spool control valve - Roll Over Protective Structure (ROPS) 3-66
Transmission main shift lever - Cab 3-68
Transmission main shift lever - Roll Over Protective Structure (ROPS) 3-68

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >

Transmission range lever - Hydrostatic (HST) - Cab 3-69
Transmission range lever - Hydrostatic (HST) - Roll Over Protective Structure (ROPS) 3-69
Cab internal lighting 3-70
Cab external lighting 3-71
Front window wiper/washer 3-72
Rear window wiper/washer (optional) 3-73
Auxiliary power outlet 3-74

Overhead controls

Cab climate control 3-75
Air conditioning 3-76
Front sun shade 3-80
Rear-view inside mirror 3-80

Exterior controls

Rear-view outside mirrors 3-81
Hood release latch 3-81

4 OPERATING INSTRUCTIONS

Commissioning the unit

Engine Speed Management (ESM) - Cab 4-1
Engine Speed Management (ESM) Roll Over Protective Structure (ROPS) 4-3
Changing tire rolling circumference and vehicle speed - Procedure 4-5
Engine break-in procedure 4-7
Diesel Particulate Filter (DPF) regeneration 4-8
Power Take Off (PTO) - Operation - Cab 4-13
Power Take-Off (PTO) - Operation - Roll Over Protective Structure (ROPS) 4-15
Three-point linkage 4-17
Attaching three-point equipment 4-18
Extendable drawbar - Cab 4-22
Extendable drawbar - Roll Over Protective Structure - (ROPS) 4-23
Top link adjustment 4-24
Hydraulic Power Lift (HPL) drop rate control valve 4-24
Roll Over Protective Structure (ROPS) Fold up/down 4-25
Roll Over Protective Structure (ROPS) - CAB 4-27

Starting the unit

Key switch 4-29
Cold starting aids 4-30
Starting the engine (Mechanical) 4-31
Starting the engine (Hydrostatic transmission) 4-34
Starting the tractor with jumper cables 4-37

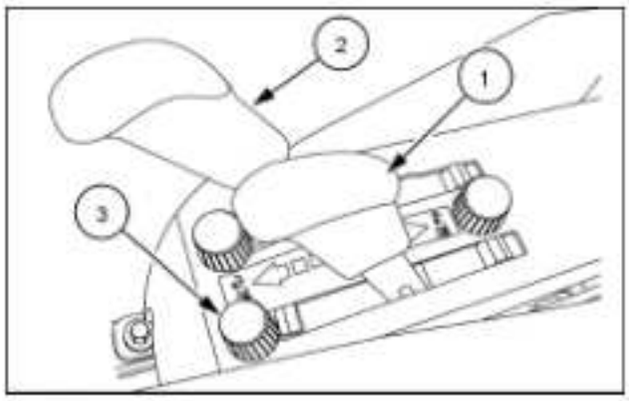
Stopping the unit

Stopping the engine 4-38
Emergency stopping - Cab 4-39

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >

Draft control - Roll Over Protective Structure (ROPS) (Optional)

The optional draft control lever **(1)** will be located in the slot on the right-hand control pod, next to the position control lever **(2)**.



Set the draft control to the desired depth for the attached implement by using the lever. Draft control is best when using implements that operate in the ground, such as plows, harrows, or cultivators. The amount of draft loading on the implement will increase or decrease as the working depth or the soil resistance changes.

To set the draft control, move the position control lever **(2)** to its full forward position. Then set the implement draft depth lower by moving draft control lever forward, or set it higher by moving lever rearward.

Implement depth will be promotional to draft, depending on the soil conditions. With draft control, the lift keeps the tractive effort steady automatically.

You can limit the range manual draft lever operation by moving and tightening the stop **(3)**.

Combined draft and position control

You can use draft and position control together to operate in draft control but prevent the implement from sinking excessively when soil conditions change. First, set the draft control lever with the position control lever fully forward. Then move the position control lever back until the lift arms start to rise. The position control lever sets the lowered position of the hydraulic lift.

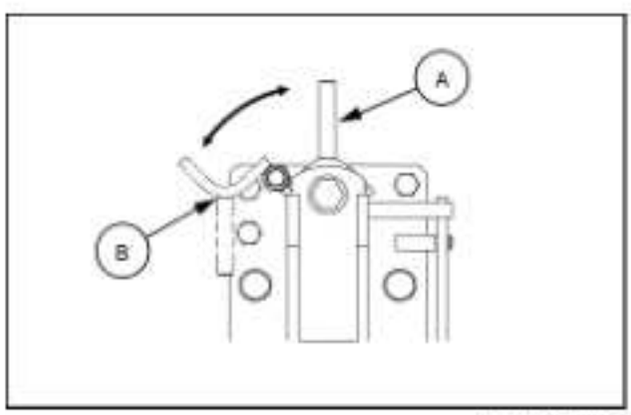
Float operation

Move the draft control lever and position control lever fully forward. The three-point linkage will now be free to "float" or follow the ground contour, a feature useful for scraper blades, etc.

Draft control lock out

The draft control will lock out by positioning lock out stopper, located on the top link bracket, in position **(A)**.

Place lock out stopper in position **(B)** to allow the draft control to function.



MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >

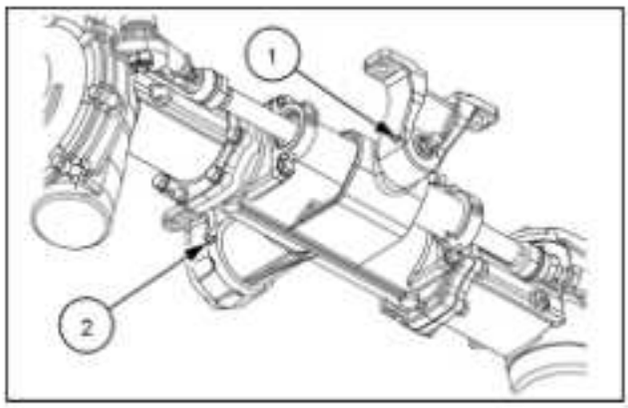
Every 50 hours

Grease fittings

NOTE: *After every 50 hours of normal operation, apply a good quality grease to the lubrication points listed below (refer to the Recommended Lubricants chart). When operating under extremely dirty conditions, lubricate more frequently than every 50 hours.*

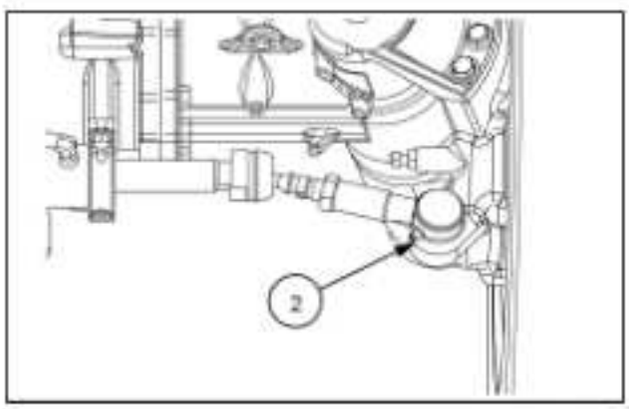
NOTE: *Front axle grease fittings*

- Front axel pivot **(1)**, rear axle pivot **(2)**.



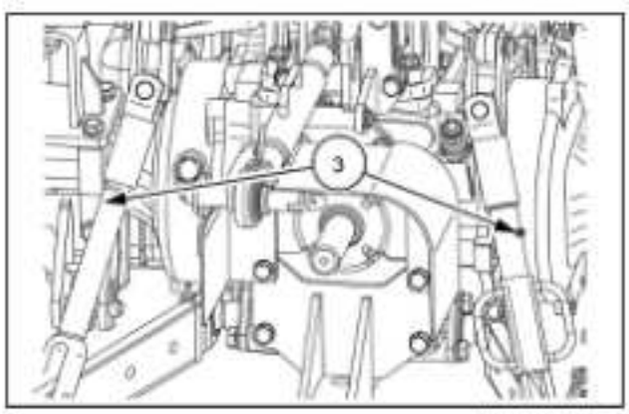
NHLZ2C700688AA 1

- Tie rod ends (Left-hand and right-hand sides) **(2)**



NHLZ2C700687AA 2

- 3-Point Linkage **(3)**



NHLZ2C700689AA 3

To lubricate these points:

1. Wipe away all old grease and dirt from the lubrication fittings to prevent dirt or foreign material from entering as new grease is applied.
2. Use a grease gun to apply new grease to fittings.
3. Wipe away any excess grease.

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >

	Boomer 45	Boomer 50	Boomer 55
Lift capacity @ ball ends on lower links	1250 kg (2756 lb)	1250 kg (2756 lb)	1250 kg (2756 lb)
Lift capacity 610 mm (24 in) behind ball ends on lower links	1120 kg (2469 lb)	1120 kg (2469 lb)	1120 kg (2469 lb)
Transmission speeds (Hydrostatic)			
(**2600 RPM** Engine rated speed with Front tires : 9.5 - 16 6PR, 13.6 - 24, 8 PR Rear tires)			
Gear position: forward			
Low	0 – 4.85 km/h (0 – 3.01 mph)	0 – 4.85 km/h (0 – 3.01 mph)	0 – 4.85 km/h (0 – 3.01 mph)
Mid	0 – 10.95 km/h (0 – 6.80 mph)	0 – 10.95 km/h (0 – 6.80 mph)	0 – 10.95 km/h (0 – 6.80 mph)
High	0 – 25.16 km/h (0 – 15.63 mph)	0 – 25.16 km/h (0 – 15.63 mph)	0 – 25.16 km/h (0 – 15.63 mph)
Gear position: Reverse			
Reverse Low	0 – 3.53 km/h (0 – 2.19 mph)	0 – 3.53 km/h (0 – 2.19 mph)	0 – 3.53 km/h (0 – 2.19 mph)
Reverse Mid	0 – 7.96 km/h (0 – 4.95 mph)	0 – 7.96 km/h (0 – 4.95 mph)	0 – 7.96 km/h (0 – 4.95 mph)
Reverse High	0 – 18.30 km/h (0 – 11.37 mph)	0 – 18.30 km/h (0 – 11.37 mph)	0 – 18.30 km/h (0 – 11.37 mph)
Transmission speeds (Mechanical) (Creeper On) (Optional)			
(**2600 RPM** Engine rated speed with Front tires : 9.5 - 16 6PR, 13.6 - 24, 8 PR Rear tires)			
Gear position: forward			
Range 1, 1st gear	0.18 km/h (0.11 mph)	0.18 km/h (0.11 mph)	0.18 km/h (0.11 mph)
Range 1, 2nd gear	0.22 km/h (0.14 mph)	0.22 km/h (0.14 mph)	0.22 km/h (0.14 mph)
Range 1, 3rd gear	0.25 km/h (0.16 mph)	0.25 km/h (0.16 mph)	0.25 km/h (0.16 mph)
Range 1, 4th gear	0.34 km/h (0.21 mph)	0.34 km/h (0.21 mph)	0.34 km/h (0.21 mph)
Range 2, 1st gear	0.41 km/h (0.25 mph)	0.41 km/h (0.25 mph)	0.41 km/h (0.25 mph)
Range 2, 2nd gear	0.49 km/h (0.30 mph)	0.49 km/h (0.30 mph)	0.49 km/h (0.30 mph)
Range 2, 3rd gear	0.58 km/h (0.36 mph)	0.58 km/h (0.36 mph)	0.58 km/h (0.36 mph)
Range 2, 4th gear	0.77 km/h (0.48 mph)	0.77 km/h (0.48 mph)	0.77 km/h (0.48 mph)
Range 3, 1st gear	0.91 km/h (0.57 mph)	0.91 km/h (0.57 mph)	0.91 km/h (0.57 mph)
Range 3, 2nd gear	1.08 km/h (0.67 mph)	1.08 km/h (0.67 mph)	1.08 km/h (0.67 mph)
Range 3, 3rd gear	1.27 km/h (0.79 mph)	1.27 km/h (0.79 mph)	1.27 km/h (0.79 mph)
Range 3, 4th gear	1.71 km/h (1.06 mph)	1.71 km/h (1.06 mph)	1.71 km/h (1.06 mph)
Range 4, 1st gear	2.36 km/h (1.47 mph)	2.36 km/h (1.47 mph)	2.36 km/h (1.47 mph)
Range 4, 2nd gear	2.80 km/h (1.74 mph)	2.80 km/h (1.74 mph)	2.80 km/h (1.74 mph)
Range 4, 3rd gear	3.30 km/h (2.05 mph)	3.30 km/h (2.05 mph)	3.30 km/h (2.05 mph)
Range 4, 4th gear	4.41 km/h (2.74 mph)	4.41 km/h (2.74 mph)	4.41 km/h (2.74 mph)
Gear Position: Reverse			
Range 1, 1st gear	0.99 km/h (0.62 mph)	0.99 km/h (0.62 mph)	0.99 km/h (0.62 mph)

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >

(18)
Caution

NO SMOKING

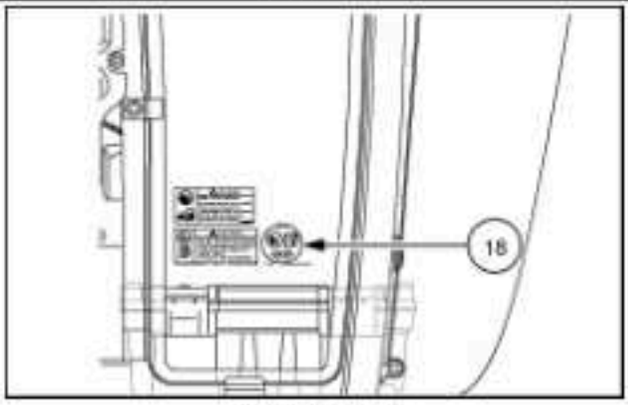
- **ULTRA LOW DIESEL FUEL ONLY**
- **Do not smoke while refueling and keep any type of flame away.**

Quantity: 1
English Part Number: MT40241059



40241059 38

(18) Location: On the lower side of the left-hand front glass.



N-BL22CT0027GAA 39

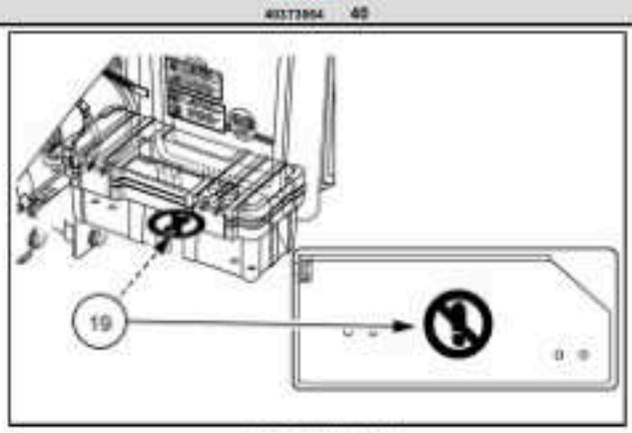
(19)
Caution
NOT A STEP

Quantity: 1
English Part Number: MT40373064



40373064 40

(19) Location: On the topside of the toolbox bracket.



N-BL22CT0027AA 41

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >

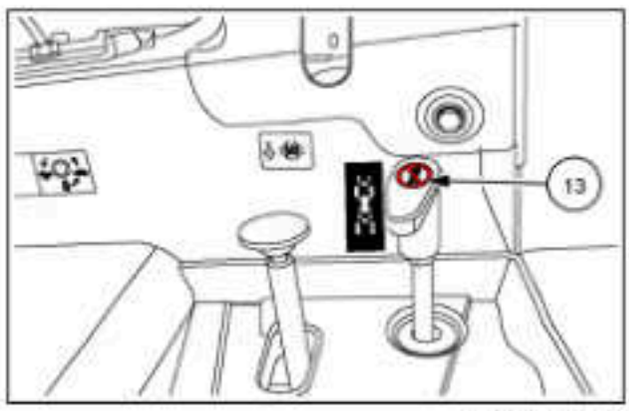
(13)

- English MT40520267

Location: On top of the 4WD lever knob.



NHEL22CT0044TAA 27



NHEL22CT0049AAA 28

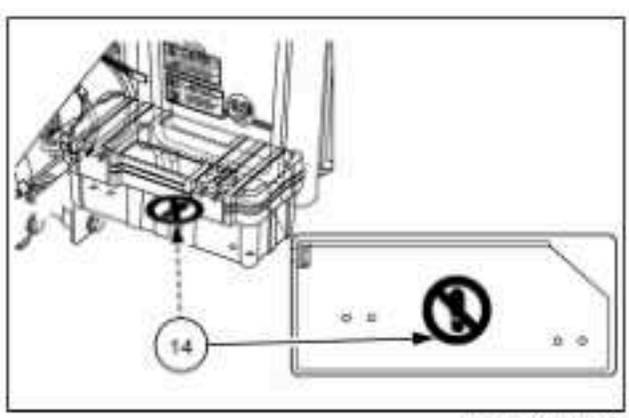
(14)

- English MT40373064 Not a step

Location: On the tool box bracket.



NHEL22CT0046AA 29



NHEL22CT0027TAA 30

MidWestTech | New Holland Boomer 45, 50, 55 Tier 4B Compact Tractor Operator's Ma... Order the manual at mid-west-tech.com >