OPERATOR'S MANUAL

TT55
TT65
TT75

Tractor

Part number 90432838
1st edition English
January 2021

NEW HOLLAND AGRICULTURE

MidWestTech | New Holland TT55, TT65, TT75 Tractor Operator's Manual | Publication 90432838
Order the manual at mid-west-tech.com >

Contents

1 GENERAL INFORMATION

General information and safety 1-1
Product identification 1-3
Ecology and the Environment 1-5

2 SAFETY INFORMATION

Safety rules 2-1
Personal safety 2-1
Driving the tractor 2-2
Operating the tractor 2-3
Operating the Power Take-Off (PTO) 2-4
Servicing the tractor 2-5
Diesel fuel 2-5
International symbols 2-7
Fuel saving tips for optimum performance 2-7
Trailer hitching 2-9
General and Safety Decals 2-10
General and Safety Decals 2-14

3 CONTROLS AND INSTRUMENTS

Access to operator's platform

Before operating 3-1

Operator's seat

Operator seat - Adjust 3-2
Seat belt (If equipped) 3-3

Forward controls

Instrument cluster - Control identification 3-4
Hand controls and switches 3-7

Left-hand side controls

Clutch 3-9
Creeper gears (If equipped) 3-9
Power Take-Off (PTO) 3-9
4WD Lever 3-10

Right-hand side controls

Foot Accelerator 3-11
Differential lock pedal 3-11
Brake pedal 3-11
Parking Brake 3-12

MidWestTech | New Holland TT55, TT65, TT75 Tractor Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

Transmission
Transmission 3-13
Transmission speeds 3-14

4 OPERATING INSTRUCTIONS
Commissioning the unit
Before operating 4-1
Running-In Procedure 4-1

Starting the unit
Starting the tractor with jumper cables 4-2
Starting the engine 4-2

Stopping the unit
Stopping the engine 4-4

5 TRANSPORT OPERATIONS
Road transport
Carrying the tractor on a transporter 5-1

Recovery transport
Towing the tractor 5-2

6 WORKING OPERATIONS
Intercooler and turbocharger
Turbocharger 6-1

POWER TAKE OFF (PTO)
Power Take-Off (PTO) operating precautions 6-1
Attaching PTO driven equipment 6-2
Connecting the Power Take-Off (PTO) 6-2
Power Take-Off (PTO) protective cap and guard 6-3
Power Take-Off (PTO) - Operating 6-3
Ground speed PTO 6-4

THREE-POINT LINKAGE
Three-point linkage 6-5
Attaching 3-point implements 6-7
Lift rods, lower links and top link 6-8
Remote control valves (If equipped) 6-10
Auxiliary hydraulic valve 6-10
Towing attachments 6-11

MidWestTech | New Holland TT55, TT65, TT75 Tractor Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

HYDRAULIC SYSTEM

Hydraulic system 6-14
Position control operation 6-15
Draft Control Operation 6-15
Combined position and Draft control Mixed Control 6-16
Float Operation 6-16
Lift-O-Matic Button 6-16
Height Limiter - Lift -O-Matic (If equipped) 6-17
Sensitivity Control 6-17
Response Control or Drop rate Control 6-18
Tap-off valve and external supply port 6-18

WHEEL TRACK ADJUSTMENT

Front axle system - Adjust 6-19
Track Rod - Hydrostatic Steering Right side - illustrated 6-19
Reassembly After Setting Track Width 6-20
Front wheel track adjustment 6-21
Front wheels toe-in 6-22
Rear wheel track adjustment 6-22

BALLASTING AND TIRES

Ballasting of Tires Selecting ballast 6-24
Rear wheel weights 6-25
Front Weights 6-25
Liquid ballast 6-26
Tire inflation 6-26
Tire pressure 6-27

7 MAINTENANCE

General information

Introduction 7-1
Safety precautions 7-1
During the first 50 hour operation 7-1
The first 50 hour service 7-1
Preventing System Contamination 7-2
Flexibility of Maintenance Intervals 7-2
Fueling the tractor 7-2
Fuel general specifications 7-2
Fuel storage 7-3
Guards 7-3
Inorganic Acid Technology (IAT) coolant 7-5
Consumables 7-6

Maintenance planning

Maintenance chart 7-7

MidWestTech | New Holland TT55, TT65, TT75 Tractor Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

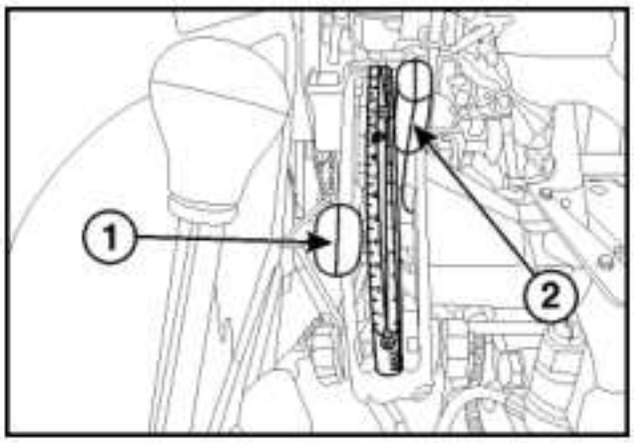
Combined position and Draft control Mixed Control

Lower the implement to the desired depth as described for draft control lever **(2)** .

When the implement stabilizes at the desired depth, progressively move position control lever **(1)** back until the lift arms tend to rise.

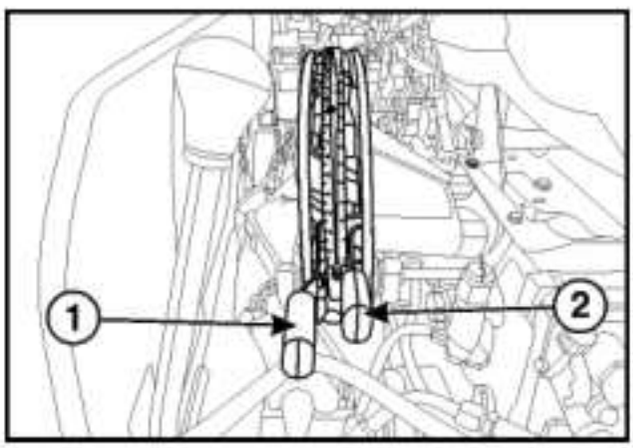
Hydraulics operate in draft control but at the same time prevent the implement from sinking excessively in the event of a decreased soil resistance, which could cause unsuitable soil to be brought to the surface.

NOTE: *When driving on the road with raised implements the top link must be made non-functional by means of the locking wedge.*



Float Operation

Move the position control lever **(1)** and the draft control lever **(2)** fully forward. The 3 - point linkage will now be free to 'float' or follow the ground contour, a feature useful for scraper blades etc.

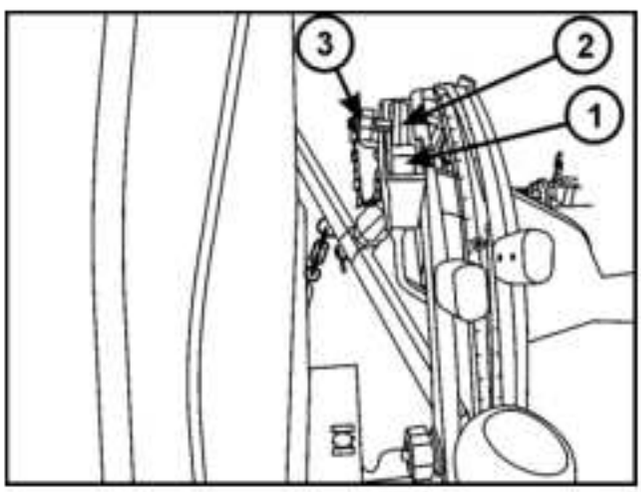


Lift-O-Matic Button

While using implements connected to PTO and controlled by Lift-O-Matic, adjust lifting rods to maximum length so as to prevent damage to the drive shaft.

To raise the implement quickly without altering the position of levers, image **1** pull back control **(1)** as shown. Control **(2)** is released in the process and the implement will raise fully. To restore the working position, press control **(2)** . Always use Lift-O-Matic button lock **(3)** as per requirement to ensure more safety.

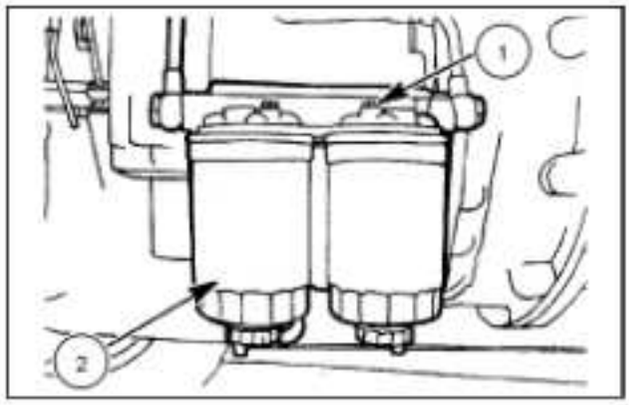
NOTE: *Do not operate Lift-O-Matic during haulage operations. It should be used during field operations only. Use recommended implements while using Lift-O-Matic. Lift-O-Matic is used for automatic repositioning of implement after turn. It helps in saving the time and adds comfort to the operator. Further it maintains uniform depth and prepares a better seedbed.*



MidWestTech | New Holland TT55, TT65, TT75 Tractor Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

Fuel filters - Replace

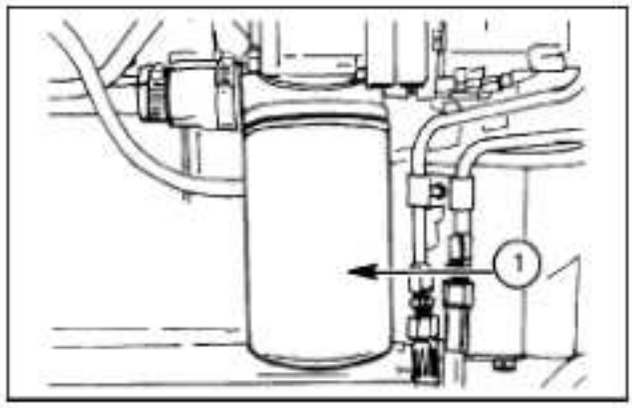
To replace the fuel filter elements proceed as follows:
1. Clean the filter assembly externally.
2. Loosen the bleed screw **(1)** .
3. Unscrew the primary fuel filter **(2)** and discard.
4. Clean the filter mounting surface. Apply a thin film of clean oil on the new oil filter sealing ring and install the filter. Turn until the sealing ring contacts the mounting surface, then tighten an additional 3/4 to 1 full turn. Do not over tighten.
5. With the bleed screw loose, prime the fuel system with the help of hand prime, See **7-24**
6. Start the engine and ensure no fuel is leaking.



GNEL17TRD3146AA 1

Hydraulic oil filter – Replace

The hydraulic oil filter **(1)** is installed on the right side of the engine.
Clean the area around the filter. Unscrew the filter and discard. Clean the inlet gallery and the face of the filter mounting. Apply clean oil around the rubber seal of the new filter and install on the tractor. Screw up until the faces just meet, then tighten it further 3/4 of a turn. Do not overtighten.



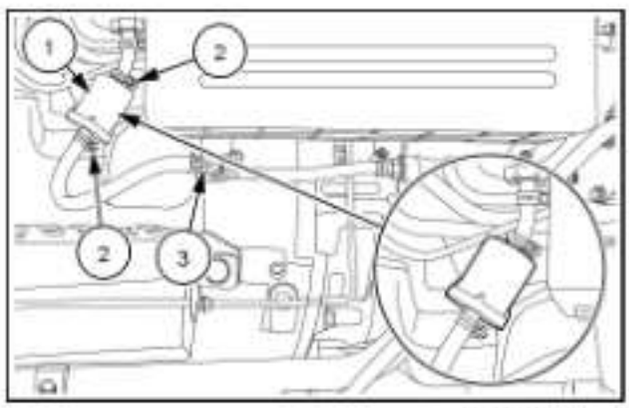
GNEL16TRD3226AA 1

Fuel strainer - Replace

If available

The fuel strainer **(1)** should be replaced after first 50 operating hours, or earlier, if a drop in engine performance is experienced.
To change the fuel strainer, proceed as follows:

1. Place a suitable container below the fuel strainer to contain spilled fuel while operation.
2. Switch OFF the knob **(3)** on the fuel line connecting fuel strainer to fuel water separator.
3. Remove the inlet and outlet hose by removing the clamps **(2)**.
4. Twist the outlet hose from the fuel tank at 90° and clamp it to avoid fuel spillage.
5. Remove the fuel strainer **(1)** from its place and dispose off.
6. Attach a new fuel strainer and clamp with the hoses.
7. Switch ON the knob **(3)**. Check for possible leakages.



GNEL16TRD3037AB 1

MidWestTech | New Holland TT55, TT65, TT75 Tractor Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >

Engine	TT55 Tier 1		TT75 Tier 1
Make		FPT	
Model		Non turbo	
Type	8035.05.716		8045.05.715
	Water cooled, four stroke, direct injection, diesel engine		
Power (kW / HP)	**40.25 kW (53.97 Hp)**		**54.70 kW (73.35 Hp)**
Number of cylinders	3		4
Bore		**104 mm**	
Stroke		**115 mm**	
Cubic capacity	**2931 cm³**		**3908 cm³**
Compression ratio		18:1	
Firing order	1-2-3		1-3-4-2
Idle speed	**600 +/- ±25 RPM**		**600 +/- ±25 RPM**
Maximum no-load speed	**2770 +/- ±50 RPM**		**2750 +/- ±50 RPM**
Rated speed		**2500 RPM**	
Tappet clearance			
Intake, exhaust (Cold)		**0.45 mm**	
Intake, exhaust (Hot)		**0.30 mm**	

Engine cooling system - General specification

Cooling system	
Type	Forced coolant circulation, by-pass
Thermostat type	Wax
Starts to open at	**77 °C**
Fully open at	**94 °C**
Radiator pressure cap	**0.88 bar (12.76 psi)**

Clutch - Technical Data

Type	Dry (button type for main clutch) Disc type for PTO clutch
Clutch driven plate diameter	**280.0 mm (11.0 in)**
PTO clutch plate diameter	**280.0 mm (11.0 in)**
Pedal free travel	**35 – 40 mm**

Power Take-Off (PTO) - Technical Data

Type	Independent
Engine speed for **540 RPM**	**1967 RPM**
Control	By hand lever provided on LHS of operator seat
Rotation	clockwise

Rear three-point hitch linkage - Technical Data

Rear Linkage	TT55	TT65	TT75
Category	II / I	II / I	II / I
Maximum lift capacity	**1350 kg**	**1500 kg**	**1500 kg**
Maximum lift capacity with assist ram	**1850 kg**	**2000 kg**	**2000 kg**

MidWestTech | New Holland TT55, TT65, TT75 Tractor Operator's Manual | Publicatio... Order the manual at mid-west-tech.com >