



A TEREX BRAND

Operator's Manual

Serial number range

GTH-1256 (Deutz Tier 4 Final)

From GTH12M-301
to GTH12M-400

Original Instructions

First Edition

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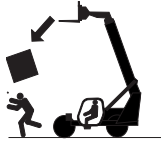
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Work Area Safety



Do not raise a load unless the load is properly positioned or secured on the forks or approved attachment.

Do not operate the machine in strong or gusty winds. Do not increase the surface area of the carriage or load. Increasing the area exposed to the wind will decrease machine stability.

Use extreme care and slow speeds while driving the machine in the travel position across uneven terrain, steep grades, debris, unstable or slippery surfaces and near holes and drop-offs.

Do not alter or disable machine components that in any way affect safety and stability.

Do not replace items critical to machine stability with items of different weight or specification.

Do not replace factory-installed tires with tires of different specification or ply rating, unless approved by the factory.

If using accessories, read, understand and obey the decals, instructions and manuals with the accessory.

Lateral inclination allowed during working phase $\pm 0,5^\circ$

Only use the machine on firm ground capable of supporting the maximum combined load of the machine and payload. If the subsoil collapses, the machine could tip over. To avoid any risk of overturning, the following precautions should be taken:

- Ask your employer (site manager or manager assistant) if there may be buried pipes, pits, old tanks, cellar floor, dung yards, etc. under the ground onto which the stabilizers shall be lowered.
- Site ground consistency can be roughly estimated using the tables and picture in this page.
- The resistance of the subsoil is in relation to the ground type and soil characteristics.

Table 1 indicates the superficial pressure which may be allowed under the stabilizers of the machine.

Type of ground, soil characteristics		Allowable superficial pressure kPa / psi
loose, non-compact soil		generally speaking, not solid; special precautions needed
loamy, peaty, pasty soil		
rippable, soft ground		
non-cohesive, well compact soil, sand, gravel		200 / 29
rippable soil	solid	100 / 14.5
	semi-solid	200 / 29
	hard	400 / 58
Rocks, concrete, heavy traffic paved roads		above 1000 / 145

Table 1

Controls

- 1 **Steering wheel**
Turn the steering wheel to the right to turn the front wheels to the right. Turn the steering wheel to the left to turn the front wheels to the left.
- 2 **Horn button**
Press this button and the horn will sound. Release the button and the horn will stop.
- 3 **Heater and air conditioning controls (if equipped)**
- 4 **Turn signal lever/Hazard warning lights (if equipped)**
Move the lever forward to activate the left turn signal. Move the lever backward to activate the right turn signal.

Rotate the end of the lever backward to activate the hazard warning lights. Rotate the end of the lever forward to deactivate the hazard warning lights.
- 5 **Steering mode selector**
Rotate the steer selector to the right side to select four-wheel steer. Rotate the steer selector to the middle position to select two-wheel steer. Rotate the steer selector to the left to select crab steer.
- 6 **Parking brake switch**
Push the bottom of the rocker switch to turn the parking brake on. Push the top of the switch to turn the parking brake off.
- 7 **Ignition switch**
Turn the key until the engine starts; when released, key springs back to pos. I automatically. Position **P** is not active.
- 8 **Instrument panel**
- 9 **Control handle**
Pull the Control handle back and the boom will raise. Push the Control handle forward and the boom will lower. Push the Control handle to the right and the boom will extend. Pull the Control handle to the left and the boom will retract. Hold down the grey thumb switch and pull the Control handle back and the forks will tilt up. Hold down the grey thumb switch and push the Control handle forward and the forks will tilt down. Hold the grey finger switch and push the Control handle to the right and the machine will sway to the right. Hold the grey finger switch and pull the Control handle to the left and the machine sway to the left.
- 10 **Auxiliary hydraulics switch**
Push the left side of the auxiliary hydraulics button and the carriage will swing or rotate to the left. Push the right side of the auxiliary hydraulics button and the carriage will swing or rotate to the right.

Push and Hold the Lock/unlock enabling switch 19 and push the left side of the auxiliary hydraulics button to lock the attachment; Push and Hold the Lock/unlock enabling switch 19 and push the right side of the auxiliary hydraulics button to unlock the attachment.
- 11 **Axle differential lock switch**
Push and hold the switch to activate the axle differential lock. Release the switch to release the axle differential lock.
- 12 **Accelerator pedal**
- 13 **Brake pedal**
- 14 **Windshield wiper switch (if equipped)**
Push the switch to turn the wiper on: first position for low speed and second position for high speed. Push the top of the switch to turn the wiper off.
- 15 **Windshield washer switch (if equipped)**
Push and hold the switch to turn the washer on. Release the switch to turn the washer off.
- 16 **Road lights switch (if equipped)**
Push the bottom of the switch to turn the road lights on. Push the top of the switch to turn it off.
- 17 **Work light switch (if equipped)**
Push the bottom of the switch to turn the boom working light on. Push the top of the switch to turn it off.

Inspections

Test the Rear Proximity Alarm System (if equipped)

The system provides a visible and audible indication of objects behind the machine, when they are within the detection range of the sensor and while in reverse gear.

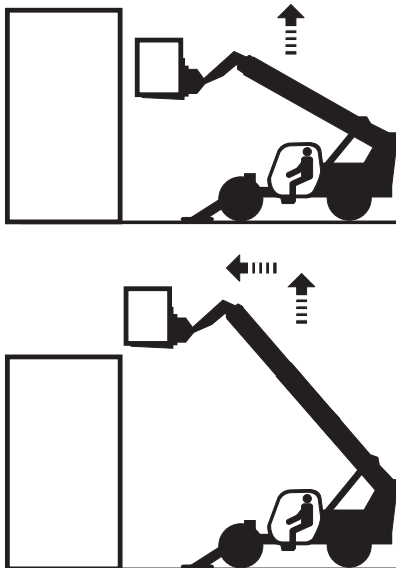
Be sure that there are no personnel and obstacles behind the machine which the sensor may detect on startup.

- 53 Locate a sizable item, like a safety cone or pallet of bricks, that the sensor will detect and position the rear of the telehandler about 15 feet / 4.5 meters in front of it. Do not perform the function test if there are people behind the machine.
- 54 Set the parking brake, place the transmission into neutral and start the engine. Press and hold the brake pedal and place the transmission in reverse.
 - ⦿ Result: The green power light on the rear proximity display should be on. If the green power light is not on, the system needs to be repaired.
- 55 Release the parking brake and slowly let up on the brake pedal and slowly approach the object. Stop the machine before it reaches the object.
 - ⦿ Result: The rear proximity display should show an orange light on. The alarm should sound with increased frequency as the machine approaches the object.
- 56 Place the transmission in forward and slowly drive away from the object.
 - ⦿ The rear proximity display should show an orange light on, and the alarm should sound with decreased frequency as the machine moves away the object.
- ⦿ As the machine moves away from the object, the display should show the green light on, and no alarm should be sounding.
- 57 Stop the machine, place the transmission in neutral and turn off the engine.

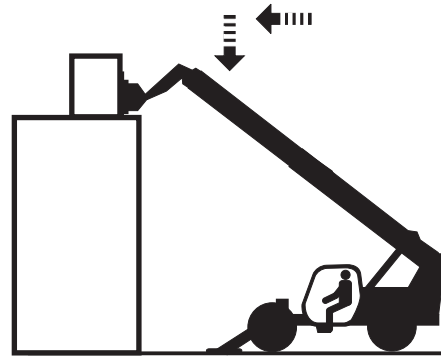
Operating Instructions

Placing the load

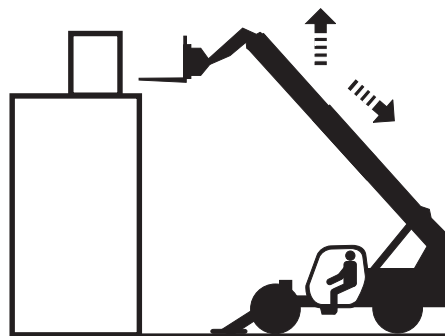
- 1 Travel to the desired work site and carefully stop the machine.
- 2 Put the transmission in neutral.
- 3 Apply the parking brake.
- 4 Lower the stabilizers, if your configuration requires it.
- 5 Level the frame, if the left to right level indicator or the front to back level indicator is not at 0 degrees.
- 6 Gradually move the controller to raise and extend the boom to the required height.



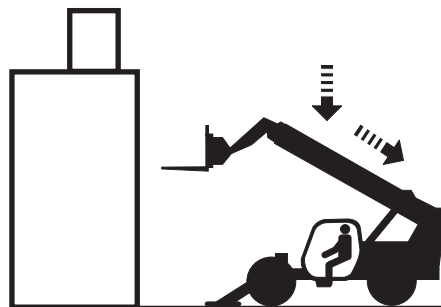
- 7 Gradually move the controller to lower and extend the boom into final position. Lower the load until the weight is completely off the forks. Do not apply a downward force with the forks.



- 8 Gradually move the controller to raise and retract the boom. This will bring the forks out of the load.



- 9 When the forks are clear of the load and the structure, the boom can be lowered and retracted.



Maintenance

Check the Engine Oil Level



Maintaining the proper engine oil level is essential to good engine performance and service life. Operating the machine with an improper oil level can damage engine components.

Note: Check the oil level with the engine off.

1 Check the oil level dipstick. Add oil as needed.

Deutz 3.6 TCD L4 tier 4f

Oil type SHELL RIMULA R4 L 15W-40

- 3 Visually inspect the DEF indicator light on the dashboard.
- ⊙ Result: Light flashing indicates DEF level is low.
- 4 Add DEF as needed. Do not overfill.

DEF specifications

DEF type ISO 22241-1

Check DEF Level



Maintaining DEF (diesel exhaust fluid) at the proper level is essential to machine operation. Operators should monitor the indicator light during use to identify changes in DEF level that might indicate the presence of system problems. Add DEF each time fuel is added or add DEF when the indicator light is on.

Always use DEF fluid from a fresh, sealed container. DEF fluid can degrade if left in a unsealed container or if it is not used by the expiration date.

- 1 Be sure that the engine is off, the frame is level and the boom is in the stowed position.
- 2 Turn the key switch to the on position.

Check the Hydraulic Oil Level



Maintaining the hydraulic oil at the proper level is essential to machine operation. Improper hydraulic oil levels can damage hydraulic components. Daily checks allow the inspector to identify changes in oil level that might indicate the presence of hydraulic system problems.

- 1 Be sure that the engine is off, the frame is level and the boom is in the stowed position.
- 2 Visually inspect the sight gauge located on the left side of the hydraulic oil tank.
- ⊙ Result: The hydraulic oil level should be halfway in the sight gauge.
- 3 Add oil as needed. Do not overfill.

Hydraulic oil specifications

Hydraulic Oil type

GAZPROMNEFT HYDRAULIC HDZ 46

Attachments

Lifting a Suspended Load

Verify that landing point is level and can safely support the load.

Properly secure the attachment to the telehandler.

Level the frame on the telehandler.

Rig the load as outlined in OSHA 29 CFR 1926.1401, 1926.1404, and 1926.1425, keeping the heaviest part of the load as close to the attachment as practical.

Tether the load to restrict movement.

Ask a signal person to assist with lifting the load if visibility will be obstructed at the point of operation.

Make sure that the signal person remains in constant communication and is in visual contact at all times.

With the boom retracted as far as practical, slowly and gradually raise the boom and load, making sure to keep the load and boom as low to the ground as practical.

Be sure that all boom and attachment movements are performed as slow as practical to avoid swinging of the load.

Travelling

Be sure that the path of travel is level and capable of supporting the telehandler with its load.

Keep the boom, and load, as low as practical while maintaining visibility in the direction of travel.

Ask a signal person to assist with your travel if visibility will be obstructed in the direction of travel.

Crush or Collision Hazard. Make sure that the signal person remains in constant communication and be in visual contact at all times.

Only make adjustments to the load after bringing the telehandler to a complete stop.

Start, stop, travel and turn slowly to prevent the load from becoming unstable or swinging.

Do not travel faster than walking speed (<2 mph / 3.2 km/h).

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