VANSE

WSC735
TELEHANDLER

Operator's Manual
(Initial Instructions)

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TEL

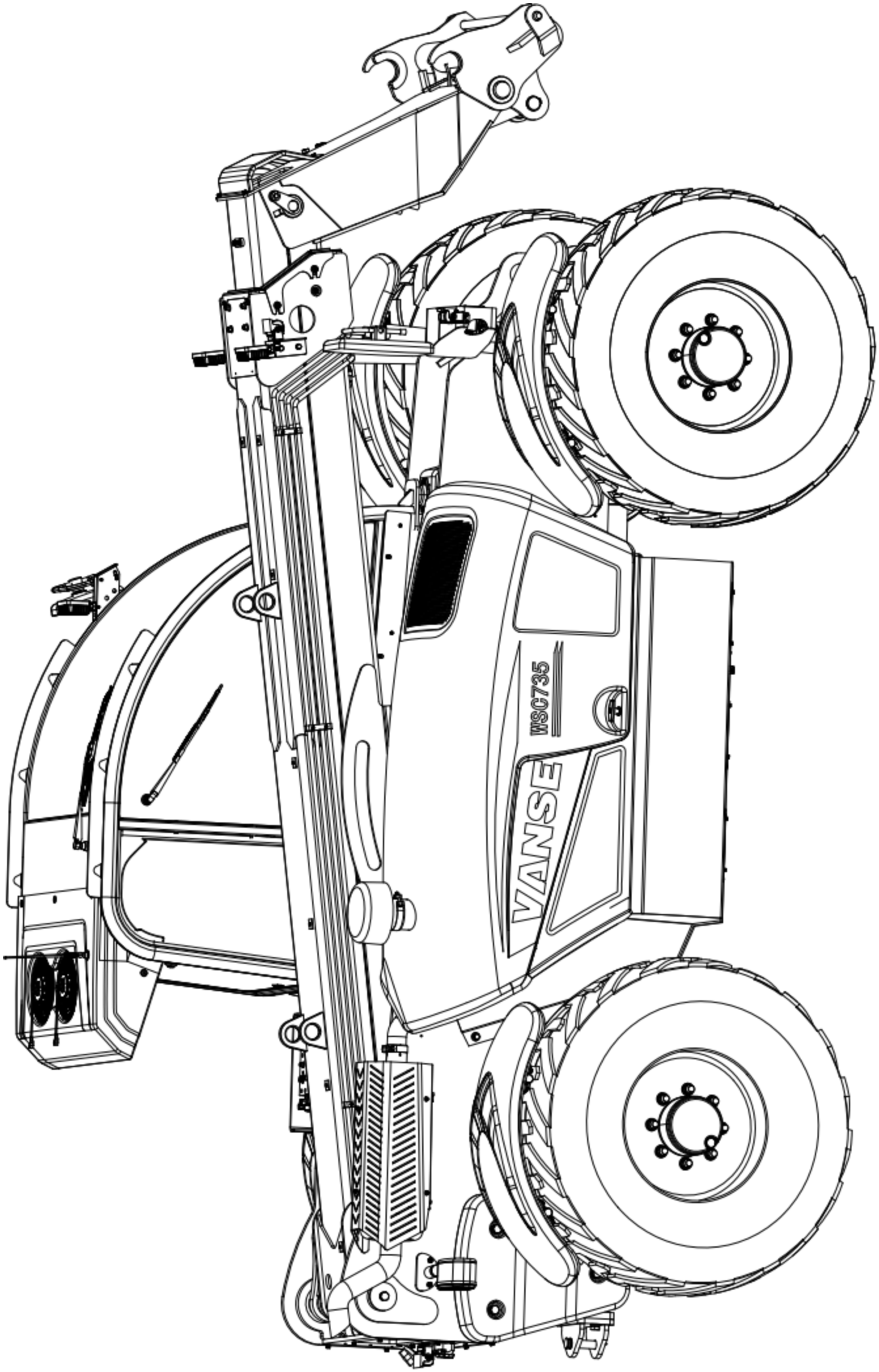
This Operator's Manual must be kept on the telehandler at all times, and the operator must read and fully understand its contents.

1 -Operation and Safety Instructions

2 - Operating Instructions

04/2025	Initial Publication

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1 -Operational and Safety Instruction

Contents

Corporate Management Specification 1 - 4

Plant 1 - 4
Equipment Operator 1 - 4
Telehandler 1 - 4
A–Telehandler Suitability for Work Applications 1 - 4
B–Telehandler Adaptation to Standard Environmental Condition 1 - 4
C–telehandlerModification 1 - 5
D - China Road Traffic Regulations (or refer to the current regulations of other countries) 1 - 5
Specification 1 - 5
Maintenance 1 - 5

Operator Instructions 1 - 6

Overview 1 - 6
General Instructions 1 - 6
A – 1 - 6
B – Authorization for Use in China (or refer to the current regulations in other jurisdictions) 1 - 6
C – Maintenance 1 - 6
D –Telehander Modification 1 - 6
E – Personnel Lifting 1 - 7
Operating Instructions for Unloaded and Loaded Conditions 1 - 8
A –Pre-Operation Inspection 1 - 8
B – Operator's Manual 1 - 8
C – Operational Environment 1 - 9
D – Road Visibility 1 - 9
E - Telehandler startup 1 - 9
F – Operate a Telehandler 1 - 9
G – Park the telehandler 1 - 10
H – Road Travel with Industrial telehandlers(or refer to current regulations in other jurisdictions 1 - 10
Load Handling Instructions 1 - 11
A – Attachment Selection 1 - 12
B – Load Weight and Center of Gravity 1 - 14
C – Longitudinal Stability Restrictor and Alerting Apparatus 1 - 14
D – telehandlerLateral Attitude 1 - 15
E – Ground-Level Load Retrieval 1 - 15
F – Tire-Mounted High Load Handling 1 - 16
G – Stabilizer-Based High Load Handling 1 - 18
H – Aerial Load Pick-and-Place Operation 1 - 18
I – Transportation with Suspended Load 1 - 18
1 - 19
1 - 20
1 - 21
Operating instructions 1 - 21
1 - 21
A - Authorization to Use 1 - 21
B - Platform Suitability for the Job 1 - 21
C - Precautions for Using the Platform 1 - 21
D - Platform Usage
E - Runtime Environment
F - Maintenance

Company Management Personnel Description

Workplace

- Proper management of telehandler operating areas can reduce the risk of accidents：

The working surface must be clear of any irregularity or obstruction.
Avoid slopes with excessive gradient.
Control pedestrian traffic.

Opeators

- Only qualified and authorized personnel are permitted to operate telehandlers.
relevant department personnel involved in telehandleroperations, and operators must permanently retain this authorization.
Written authorization must be issued by the

Based on experience, there may be numerous non-compliant practices during telehandler operation.
Such foreseeable misuse is strictly prohibited, primarily including:

– Foreseeable abnormal actions resulting from general negligence, rather than intentional improper use of the telehandler.
– Reflex reactions of an operator during functional failures, accidents, or malfunctions.
– Actions driven by the "principle of least effort" when performing a task.
– Foreseeable behavior involving the following individuals attempting to operate a telehandler:

Apprentices, minors, persons with disabilities, and trainees.
Telehandler drivers attempting to win bets, participate in competitions, or gain personal experience.
Telehandler pervisors must consider these criteria when assessing an individual's suitability as a telehandler operator.

TELEHANDLER

A – Suitability of the Telehandler for the Task
– Vanse has ensured that the telehandler is suitable for the intended use under standard operating conditions as specified in this manual.
– Prior to commissioning, the company's management must verify that the telehandler is appropriate for the designated work and conduct specific tests (in compliance with current regulations).

B – Adaptability of the Telehandler to Standard Environmental Conditions
– In addition to the standard equipment installed on the telehandler, various optional accessories are available, including:Road lighting tools, Stop lights, Flashing beacons,Reverse lights,Backup alarm,Front and rear work lights,Lights at the end of the telescopic boom, etc.

– Operators must consider the working conditions when determining the necessary signaling and lighting equipment. Consult your dealer for guidance.

– Account for on-site weather and climatic conditions, including:
Frost prevention (Refer to: Section 3 – Maintenance: Lubricants and Fuel).
Lubricant compatibility (Consult your dealer for specifications).
Engine filtration (Refer to: Section 3 – Maintenance: Filters and Belts).

For operation under average weather conditions (i.e., temperatures between –15 °C and +35 °C), verify that the lubrication levels in all circuits are adequate during production. For operation in harsher weather conditions, drain all circuits before startup and relubricate them with a lubricant suitable for the ambient temperature. The same applies to the coolant.

– When the telehandler noperates in areas without firefighting equipment, it must be equipped with a dedicated fire extinguisher. For optional configurations, consult your dealer.

This telehandler is designed for outdoor use in standard climatic conditions and indoor use in adequately ventilated areas. Operation is prohibited in areas with fire hazards or potential explosion risks (e.g., refineries, fuel or gas storage facilities, flammable material warehouses, etc.). If use in such environments is required, special equipment must be provided (consult your dealer for further details).

C - Telehandler Modifications

For your safety and the safety of others, unauthorized modifications to the structure or settings of any telehandlers components are strictly prohibited. This includes, but is not limited to:Hydraulic systems， Calibration limiters,Engine speed settings,Installation of special equipment,Addition of counterweights,Use of unapproved attachments,Alterations to alarm systems or lighting.

Under such circumstances, the manufacturer shall not be held liable.

D - Chinese Road Traffic Regulations
(or refer to the applicable regulations in other countries)

-Only one Certificate of Compliance will be issued and must be stored in a secure location.

INSTRUCTION

– The operator’s manual must always be kept in the designated location on the telehandler and must be provided in a language understood by the operator.

– Any operator’s manual, nameplate, or label that is illegible, worn, or damaged must be replaced immediately.

MAINTANCE

- Any maintenance or repair work not explicitly detailed in "Section 3 – Maintenance" must be performed exclusively by qualified technicians (consult your dealer) under the requisite safety conditions to ensure the safety of both the operator and any third parties.

To maintain the telehandler under specified conditions, periodic inspections must be performed. (Refer to: Section 3 - Maintenance: H - Periodic Inspection Rules for Key Safety Functions). The frequency of such inspections shall be determined by the prevailing regulations of the country in which the telehandler is operated.

Operator Manual

Preface

This symbol shall invariably indicate:



WARNING! Risk of injury to personnel or damage to the telehandler.

Compliance with the safety instructions and specified precautionary measures during operation, maintenance, or repair of the telehandler eliminates potential accident risks.

- Only perform operations or manipulations explicitly described in this manual. The manufacturer cannot anticipate all potential risk scenarios. Consequently, the safety instructions and precautions contained in this user manual and displayed on the telehandler cannot be exhaustive.
- As an operator, you must at all times exercise reasonable judgment to evaluate potential risks to yourself, others, or the telehandler when operating the equipment.

Any violation of the telehandler safety precautions or deviation from the prescribed operation, maintenance, or repair procedures may result in serious or fatal accidents.

GENERAL INSTRUCTION

A - Operator's Manual
Thoroughly read the Operator's Manual.
The Operator's Manual must always remain in the designated location on the telehandler.
All illegible, damaged, or deteriorated safety labels or nameplates must be reported immediately.

B - Authorization for Operation in China.(or refer to applicable regulations in other countries)
Only qualified personnel are permitted to operate the telehandler. Written authorization must be issued by competent personnel in accordance with operational guidelines, and operators must carry this authorization at all times.

Operators are strictly prohibited from authorizing other individuals to operate the telehandler.

C - Maintenance
Operators must immediately notify supervisors of any operational abnormalities or safety compliance issues. No repairs or adjustments may be performed by operators unless specifically trained to do so. When specified in their duties, operators must maintain the telehandler in a clean condition.

Operators must perform daily maintenance (refer to "Section 3 – Maintenance: A – Daily or Every 10 Operating Hours").
Operators must ensure tires are appropriate for ground conditions (refer to *contact surface specifications in "Section 2 – Specifications: Front/Rear Tires"*). Contact your dealer for optional configurations:

- Sand tires
- All-terrain tires
- Snow chains

Do not operate the telehandler if tires are improperly inflated, damaged, or excessively worn, as this compromises operator safety, endangers others, and risks damage to the telehandler."

"Foam-filled tires are strictly prohibited unless pre-authorized by the manufacturer. Unapproved installations void all quality warranties.

D – telehandlerModifications
For your safety and the safety of others, unauthorized modifications to any components or settings of the telehandlerare strictly prohibited,including but not limited to:Hydraulic systems, Calibration limiters, Engine speed
settings,Installation of special equipment,Addition of uncalculated counterweights,Use of unapproved attachments,Alterations to alarm systems or lighting.Under such circumstances, the manufacturer shall not be held liable.

E - Personnel Lifting

Work Equipment and Personnel Lifting Attachments:

- May be prohibited, or
- May be exceptionally permitted under specific conditions

(refer to current regulations in the country where the telehandler is operated).



Pictorial Notices Posted in the Operator's Station:

- Left-Hand Pillar:

"Lifting personnel is strictly prohibited when using any attachment on a telehandler without an approved platform."

- Right-Hand Pillar:

"Lifting personnel is permitted only with a telehandler equipped with a specially designed Vanse uplatform."

Manufacturer Solutions:

Vanse offers dedicated personnel lifting attachments (for platform-equipped telehandler, contact your dealer).

Empty or loaded operating instructions

A – Before starting the telehandler
– Perform routine maintenance (see: Maintenance: A – Daily or every 10 hours of operation)
– Ensure that the lights, indicators and windshield wipers are in working order.
– Ensure that the rearview mirrors are in working order, clean and properly adjusted.
– Ensure that the horn is working.

B – Instructions for the Operator
– Regardless of experience, operators should be familiar with the location and operation of all controls and instruments before operating the telehandler.
– Wear clothing suitable for telehandler operation and avoid loose clothing.
– Make sure you have the appropriate protective equipment to complete the job.
– Working in a noisy environment for too long may cause hearing problems. It is recommended to wear earmuffs to avoid excessive noise.
– When getting in or out of the driver's seat, always face the telehandler and use the handles designed for this purpose. Do not jump out of the driver's seat.
– Always pay full attention when using the telehandler. Do not listen to the radio or use headphones or earphones.
– Do not operate the telehandler when your hands or feet are wet or dirty with greasy substances.
– For increased comfort, adjust the operator's seat as needed and choose a reasonable position in the cab.



It is strictly forbidden to adjust the seat while the telehandler is in motion.

– The operator must always be in the standard position in the cab. It is forbidden to extend arms, legs or any part of the body out of the cab of the telehandler.
– The safety belt must be worn and adjusted to the size of the operator.
– Under no circumstances is it strictly forbidden to use the control unit for operations other than its intended purpose (such as getting on or off the telehandler, travel luggage, etc.).
– If the control components are equipped with a forced operation (lever lock), it is forbidden to leave the cab before setting these control components to the neutral position.
– No other person is allowed in the cab.

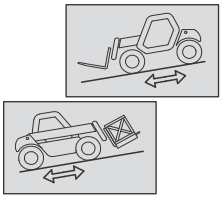
C – Environment
– Comply with site safety regulations.
– If the telehandler needs to be used in a dimly lit area or at night, make sure it is equipped with working lights.
– During handling operations, make sure no one interferes with the telehandler and its load.
– Do not allow anyone to approach the telehandler' s working area or pass under the lifted load.
– When using the telehandler on a horizontal slope, follow the instructions in " Load handling instructions: D – Lateral position of the telehandler" before raising the telescopic boom.

– Driving on a longitudinal slope:

• Smooth driving and braking.

• Driving without load: The forks or attachments face downhill.

• Driving when loaded: The forks or attachments face uphill.



When attempting to navigate a narrow or low passage, consider the size of the telehandler and its load.– Do not drive a telehandler onto a load platform without first checking:

- Ensure that the position is appropriate and that the vehicle can be driven faster.
- Ensure that the attached device (van, telehandler, etc.) does not move.
- Ensure that the platform is suitable for the total weight of the telehandler to be loaded.
- Ensure that the platform is suitable for the size of the telehandler.

– Do not park the telehandler on a footbridge, ground or cargo lift without first confirming that it is suitable for the weight and size of the telehandler to be loaded and before checking that it is in good working order.
– Be careful when working on loading docks, ditches, scaffolding, soft ground and manholes.
– Before lifting or removing loads, ensure that the ground under the wheels and (or) stabilizers is stable and firm. If necessary, add sufficient wedges under the stabilizers.
– Ensure that the scaffolding, load platform, piles or ground can bear the load.
– Do not pile up the load on uneven ground, as it may tip over.

If the load or attachment must be maintained above a structure for a longer period of time, there is a risk of sliding over the structure ools down and the telescopic arm drops.

To eliminate this risk:

– Regularly check the distance between the load or attachment and the structure and readjust it if necessary.

– If possible, use the telehandler when the oil temperature is close to the ambient temperature.

– When working near overhead wires, ensure there is sufficient safety distance between the telehandler working area and the overhead wires.

You must consult your local electrical agency. If the telehandler is operated or stopped in close proximity to electrical cables, there is a risk of electric shock or serious injury.

When the wind is strong, it is prohibited to carry out any handling work that will damage the stability of the telehandler and the cargo, especially when the cargo is shaking violently in the wind.

D – Visibility
– The safety of personnel in the telehandler' s work area and the telehandler itself depends on good operator visibility around the telehandler at all times and in all situations.
– The telehandler is designed to provide good operator visibility around the telehandler (directly or indirectly through mirrors) when the telehandler is in the
handling position and unloaded.
– If the load obstructs visibility in front of the telehandler, special measures must be taken:
  – Reverse driving,
  – Site layout,
  – Have someone assist you (stand outside the telehandler' s travel area) to ensure that the person is clearly visible at all times.
  – In any case, avoid reversing long distances.
– When the telehandler' s telescopic arm is in the raised position, the telehandler may require special attachments. In this case, visibility to the right is restricted and special measures must be taken:
  – Site layout,
  – Have someone assist you (stand outside the telehandler' s travel area) to ensure that the person is clearly visible at all times.
– Maintain all parts that may affect visibility in a clean, properly adjusted condition and in good working order (e.g. windshield, windows, windshield wipers, windshield washers, driving and working lights, rearview mirrors).

E – Starting the telehandler

Safety precautions

The telehandler can only be started and operated after the operator is in the cab and has adjusted and fastened his seat belt.

– Do not push or tow the telehandler to start. These actions may cause serious damage to the drive train. If the telehandler needs to be tow
ed in an emergency, the transmission must be in the parking brake released position (see "G2 - Temporary maintenance" in " Maintenance").

– If starting with an emergency battery; use a battery with the same characteristics and observe the respective battery polarity when connecting. Connect the positive terminal first, then the negative terminal.

Failure to observe the polarity between batteries may cause serious damage to the circuit. The electrolyte in the battery may gener ate an explosive gas. Avoid flames or sparks in the vicinity of the battery. Do not disconnect the battery during charging.

Instructions

– Check the closure and locking of the guard.
– Make sure that the cab door is closed.
– Make sure that the forward/reverse control lever is in the neutral position.
– Set the ignition key to position I and enable the electrical system.
– Check the oil level on the indicator.
– Turn the ignition key to position II and fully warm up: then start the engine. Release the ignition key and let the engine idle.
– The starter motor warm-up time must not exceed 15 seconds and should be warmed up between two failed operations.
– Make sure that all signal lights on the control panel are off.
– Press the accelerator pedal to confirm that the driver is on the vehicle.
– When the engine is hot, check all control instruments at regular intervals during use to facilitate rapid detection of all faults a nd timely and accurate correction of faults.

– If a gauge fails to display correctly, stop the engine and immediately perform necessary actions.

F – Driving a telehandler

Safety precautions

When using a telehandler, the operator should be aware of the associated dangers, in particular:
- Risk of loss of control.
- Risk of loss of lateral and frontal stability of the telehandler.
The operator must always be in control of the telehandler.
If the telehandler overturns, it is forbidden to leave the cab in the event of an accident. The best protection is to sit in the cab and wear a seat belt.

– Observe company traffic regulations or highway regulations (default).
– Do not perform operations that exceed the load capacity of the telehandler or attachments.
– When driving the telehandler, the forks or attachments are always in the handling position, such as 300 mm off the ground, the telescop ic arm is retracted, and the fork frame is tilted backwards.
– To avoid falling goods, only carry balanced and properly fixed loads.
– Make sure that the plates, boxes, etc. are in good working order and suitable for the goods to be lifted.
– Know the conditions of the ground on which the telehandler is operating.
– Make sure that the service brakes are in good working order.
– The speed of the telehandler with load must not exceed 12 km/h.
– Drive smoothly and steadily in a manner suitable for the operating conditions (ground structure, load on the telehandler).
– Do not use the hydraulic telescopic arm control when the telehandler is in motion.
– Do not change the steering mode when driving.
– Do not use the hydraulic telescopic arm control when the telescopic arm is raised, except in special circumstances. Be extremely careful, drive very slowly and brake smoothly. Ensure reasonable visibility.
– Turn slowly.
– Make sure to control your speed in all circumstances.
– Drive slowly on wet, muddy or uneven surfaces.
– Brake smoothly and avoid sudden braking.
– Use the telehandler's forward/reverse control lever only in a stable position and never suddenly.
– Do not keep your foot on the brake pedal while driving.
– Always remember that hydrostatic steering is extremely sensitive to steering wheel movements, so turn smoothly and avoid jolts.
– Do not start the engine when the telehandler is unattended.
– Do not leave the cab when there is a raised load on the telehandler.
– Check the direction you are driving and always ensure good visibility of the road.

– Always use the rearview mirrors.
– Avoid obstacles.
– Do not drive near ditches or on steep slopes.
– Using two telehandlers to move heavy or bulky loads simultaneously is extremely dangerous, as this operation requires special handling. This should only be used as an exception after a risk assessment.
– If the telehandler is not equipped with a punch-out cut-off device, the ignition switch is equipped with an emergency stop mechanism.

Instructions

– When driving the telehandler, always keep the forks or attachments in the handling position, i.e. 300 mm from the ground, the telescopic arm retracted and the fork carriage tilted backwards.
– For telehandlers with gearbox, use the recommended gear (see “ 2 –Notes: Instruments and controls”).
– Select the steering mode (see “ 2 – Notes: Instruments and controls”) that is suitable for the use and/or working conditions (see telehandler model).
– Move the forward/reverse control lever and accelerate slowly until the telehandler moves.

G – Stop the telehandler

Safety precautions

– Never leave the ignition key on the telehandler when the operator is not present.
– When the telehandler is stable, or when the operator must leave the cab (even for a short while), place the forks or attachments on the ground and set the forward/reverse control lever to the neutral position.
– Make sure the telehandler is not parked in any position that affects the flow of traffic and is less than 1 meter from the rails.
– If the telehandler is stationed at a site for an extended period, protect the telehandler from inclement weather, especially frost (check antifreeze level), and close and lock all access points to the telehandler (doors, windows, hoods, etc.).

Instructions

– Park the telehandler on level ground or on a slope with a gradient less than 15%.
– Set the forward/reverse control lever to neutral.
– For telehandlers with a gearbox, set the gear control lever to neutral.
– Fully retract the telescopic arm.
– Lower the forks or attachments to the ground.
– When using a grab or jaws or bucket with the hydraulic system enabled, turn off the attachment completely.
– Before stopping the telehandler after a long working period, let the engine idle for a few minutes to allow the coolant liquid or oil to reduce the temperature of the engine and transmission. Do not forget to take this precaution in the event of frequent engine stops or thermal stalls, otherwise the temperature of certain parts will rise significantly due to the stop of the cooling system, with the risk of serious damage to such parts.

– Stop the engine using the ignition switch.
– Remove the ignition key.
– Block all access to the telehandler (doors, windows, hoods, etc.…).

H - Driving a telehandler on public roads
(or refer to the current regulations in other countries))

Safety Instructions
– Operators of telehandler telehandlers on public roads must comply with the current road regulations.
– The telehandler telehandler must comply with the current road regulations. If necessary, take alternative measures. Plea
se contact your dealer.

Instructions
– Make sure that the rotating lights are fitted, switch them on and check their operation.
– Check that the lights, indicators and windscreen wipers are in good working order and clean.
– If the telehandler is equipped with working headlights, switch them off.
– Select steering mode "Road traffic" (see telehandler model) (see: "2 – Instructions: Instruments and controls").
– Fully retract the telescopic arm and place the attachment 300 mm above the ground.
– Place the slope corrector in the middle position, i.e. with the axle axis parallel to the chassis (see telehandler model).– Raise the stabiliser to the highest position and turn and slide it inwards (see telehandler model).

To protect the telehandler engine brakes, it is forbidden to move at neutral speed (the gear reversing device is set to the neutral position). Failure to follow this instruction when driving on a slope will result in excessive speed
and loss of control of the telehandler (steering, brakes), which may also cause serious mechanical damage.

Driving a telehandler with a front-loaded attachment

– You must comply with the regulations in force in your country regarding the roadworthiness of telehandlers with a front-loaded attachment.

– If the road regulations in your country allow the circulation of a telehandler with a front-loaded attachment, you must at least:

- Protect and report any sharp and/or dangerous edges on the attachment (see: 4 – Optional applicable attachments in the range: Attachment guards).
- Do not load the attachment.
- Make sure that the attachment does not obstruct the illumination of the forward lights.
- Make sure that there are no other obligations under the current regulations in the country.

Operating the telehandler with a trailer

– If a trailer is used, observe the mandatory regulations in the country (maximum travel speed, brake system, maximum trailer weight, etc.).

– Remember to connect the telehandler's electrical system to the trailer's electrical system.

– The trailer's brake system must comply with the applicable regulations.

– When towing a trailer with an auxiliary brake system, the telehandler must be equipped with a trailer brake. To do this, remember to connect the trailer brake to the telehandler.

– The vertical force on the unhook must not exceed the maximum value authorized by the manufacturer (see the manufacturer's data plate on the telehandler).

– The maximum authorized gross vehicle weight must not exceed the maximum weight authorized by the manufacturer (see the manufacturer's data plate on the telehandler).

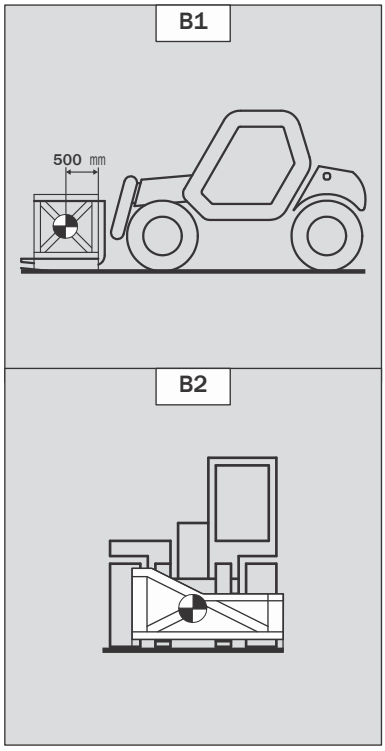
If necessary, consult your dealer.

A – Attachment selection
– Only use attachments approved by VANSI on your telehandler.
– Make sure the attachment is suitable for the work to be performed. If the telehandler is equipped with the optional single side shift telehandler (TSDL), only use authorized attachments
– Make sure the attachment is correctly mounted and locked to the telehandler frame.
– Make sure your telehandler attachment is in proper working order.
– For telehandlers equipped with attachments, observe the telehandler load diagram.
– Do not exceed the rated load capacity of the attachment.
– Do not use slings to lift loads if no attachment is installed for this purpose, as there is a risk of the slings slipping. (See: Load handling instructions: H - Lifting and placing a suspended load)

B – Load mass and centre of gravity
– Before lifting a load, its mass and centre of gravity must be known.
– The load diagrams for the telehandler telehandlers apply to loads with a longitudinal centre of gravity position of 500 mm from the bottom of the forks (Fig. B1). For higher centres of gravity, contact your dealer.
– For irregular loads, the transverse centre of gravity position should be determined before any movement (Fig. B2) and placed on the longitudinal axis of the telehandler telehandler.

It is prohibited to move cargo that exceeds the effective load capacity on the telehandler load table.

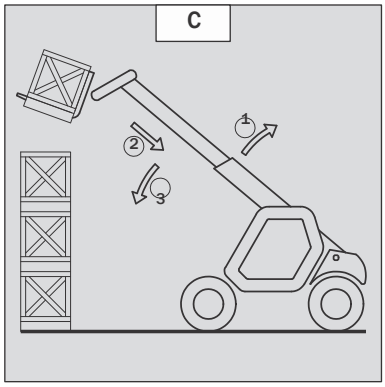
For cargoes with a shifting centre of gravity (e.g. liquids), changes in centre of gravity should be considered in determining the cargo to be handled and vigilance should be exercised to limit these changes as much as possible.



C - Longitudinal stability limiter and alarm device
This device gives an indication of the longitudinal stability of the telehandler and limits hydraulic movement to ensure stability when:

- When the telehandler is stationary,
- When the telehandler is on firm, stable and solid ground,
- When a telehandler is performing lifting and placing operations.

- Move the telescopic arm very carefully when approaching the permissible load limit (see "2 - Notes: Instruments and controls").
- Always observe the device during handling operations.
- In the event of an aggravated movement, perform the movements to alleviate the "aggravated" level in the following sequence (Fig. C): If necessary, raise the telescopic arm (1), retract the telescopic arm (2) as far as possible and lower the telescopic arm (3) to release the load.



When the steering is at the maximum limit, or the rear axle is swung at the limit position, the instrument reading may be wrong. Before lifting the load, make sure the telehandler is not in the above situation.

D-telehandler lateral posture

Depends on telehandler model

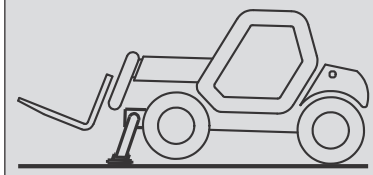
Lateral attitude refers to the lateral slope of the chassis relative to the horizontal.
Raising the telescopic arm reduces the lateral stability of the telehandler. When
setting the lateral attitude, the telescopic arm must be in the low position as follows:

1 – Telehandlers without slope correctors on the tires
– Position the telehandler and make sure the bubble in the spirit level is between the two lines (see: 2 – Instructions: Instruments and controls).

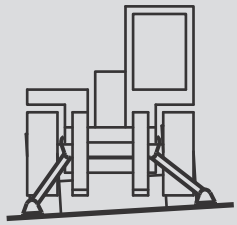
2 – Telehandlers with slope correctors on the tires
– Correct the slope with the hydraulic controller and check the levelness with a spirit level. The bubble in the spirit level must be between the two lines (see: 2 – Note: Instrument and controller).

3 – Telehandler on stabilisers
– Place the two stabilisers on the ground and raise the two front wheels of the telehandler (Fig. D1).
– Correct the slope with the stabilisers (Fig. D2) and make sure the telehandlers is level using a spirit level. The bubble in the spirit level must be between the two lines (see: 2 – Note: Instruments and controls). In this case, the two front wheels must be off the ground.

D1



D2



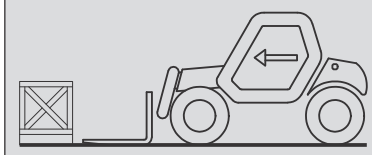
E – Lifting the load from the ground
– Approach the load vertically with the telehandler, telescopic arm retracted and forks in horizontal position (Fig. E1).
– Adjust the fork spacing and center it according to the load (Fig. E2) (option available, consult your dealer).
– Lifting the load with a single fork is not allowed.

Be careful not to jam or pinch the limbs when manually adjusting the forks.

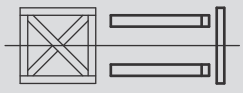
– Move the telehandler forward slowly (1) and position the forks in front of the load (Fig. E3). If necessary, gently raise the telescopic arm (2) when
removing the load.
– Place the load in the transport position.
– To ensure stability, tilt the load as far back as possible (to avoid losing the load when braking or going downhill).

For non-palletized loads
– Tilt the fork carriage (1) forward and slowly move the telehandler (2) forwards , insert the forks under the load (Fig. E4) (lock the load if necessary).
– Continuously move the telehandler (2) forwards, tilt the fork carriage (3) backwards (Fig. E4), place the load on the forks and check the longitudinal and lateral stability of the load.

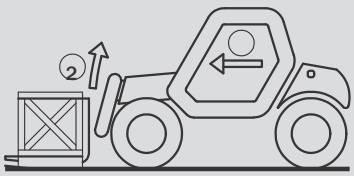
E1



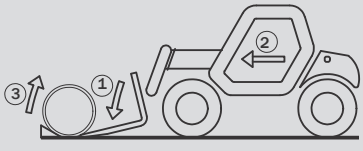
E2



E3



E4



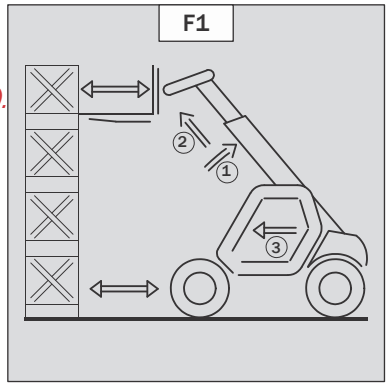
F – Pick up and place a tall load on the tire

Do not raise the telescopic arm without first checking the lateral position of the telehandler (see: Load handling instructions: D – Lateral position of the telehandler).

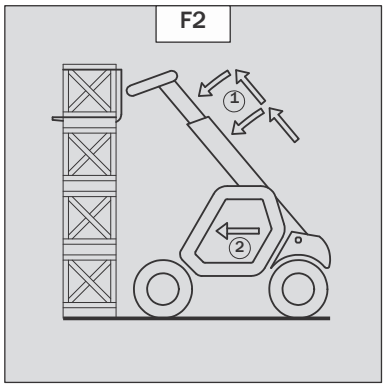
Reminder: Ensure good visibility when performing the following operations (see: O perating instructions when empty and loaded: D – Visibility). Lifting a high load on wheels

– Make sure the forks can pass under the load very easily.
– Raise and extend the telescopic arm (1) (2) until the forks are level with the load and move the telehandler forward if necessary (3) (Figure F1), driving slowly and carefully.
– Always consider keeping the forks in a position that allows the forks to reach under the load, between the pile and the telehandler (Figure F1), using the shortest possible telescopic arm length.
– Stop the forks in front of the load by alternately extending and retracting the telescopic arm (1) or moving the telehandler forward if necessary (Figure F2). Set forward and reverse gear to neutral.
– Gently lift the load (1) and tilt the fork carriage (2) backwards to stabilize the load (Figure F3).
– To ensure its stability, tilt the load as far back as possible.
– Observe the longitudinal stability limiter and warning device (see: Cargo handling instructions: C – Longitudinal stability limiter and warning device). If overloaded, replace the cargo in the take-off position.
– If possible, lower the cargo while the telehandler is stationary. Raise the telescopic arm (1), release the cargo, retract (2) and lower the telescopic arm (3) and place the cargo in the handling position (Figure F4).
– If this is not possible, reverse the telehandler (1) and release the cargo carefully and smoothly. Retract (2) and lower the telescopic arm (3) and place the cargo in the handling position (Figure F5).

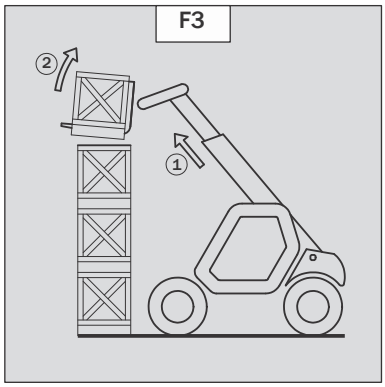
F1



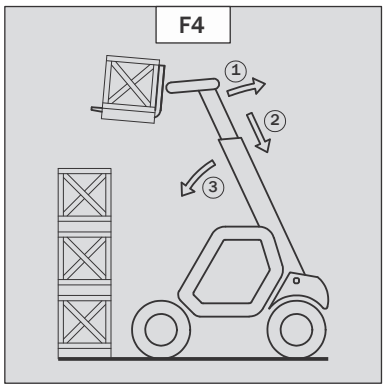
F2



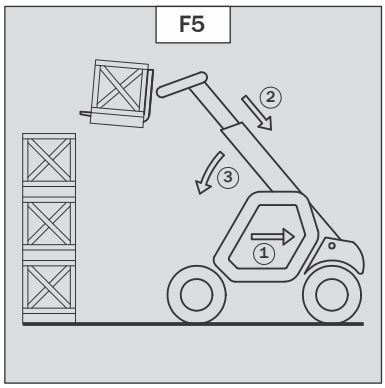
F3



F4

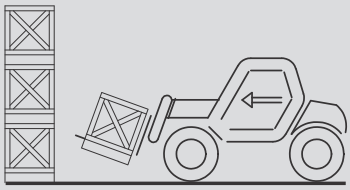


F5

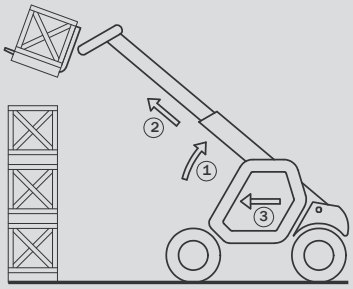


Place tall loads on the wheels
– Approach the load in the handling position in front of the pile (Figure F6).
– Set the gear lever to neutral.
– Raise and extend the telescopic arm (1) (2) until the load is above the pile, observing the longitudinal stability limiter and warning device during operation (see: Cargo handling instructions: C – Longitudinal stability limiter and warning device). If necessary, move the telehandler forward (3) and drive slowly and carefully.
– Place the load in a horizontal position and lower and retract the telescopic arm (1) (2) to place it on the pile and stack the load correctly (Figure F8).
– If possible, release the forks by alternately retracting and raising the telescopic arm (1) (Figure F9). Then put the forks in the handling position.
– If this is not possible, reverse the telehandler (1) and release the forks carefully and smoothly (Figure F10). Retract (2) and put it in the handling position.

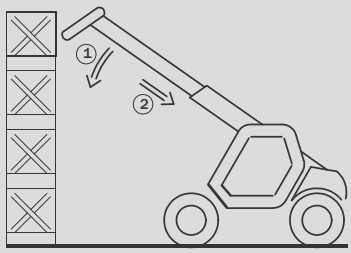
F6



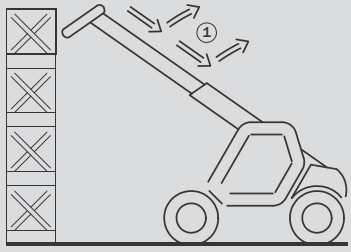
F7



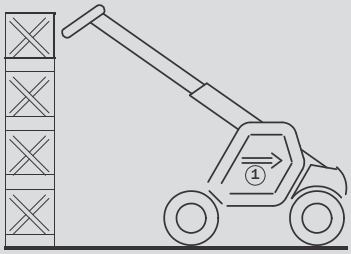
F8



F9



F10



G - Extract and place tall cargo on stabilizers

Depends on telehandler model

Do not raise the telescopic arm without first checking the lateral position of the telehandler (see : Load handling instructions: D – Lateral position of the telehandler).

CAUTION: Ensure good visibility when performing the following operations (Ref: Operating Instructions When Empty and Loaded: D – Visibility).

Using Stabilizers Stabilizers are used to optimize the lifting performance of the telehandler (see: 2 – Description: Instruments and Controls).

Position the stabilizer with forks in the transport position (empty and loaded)

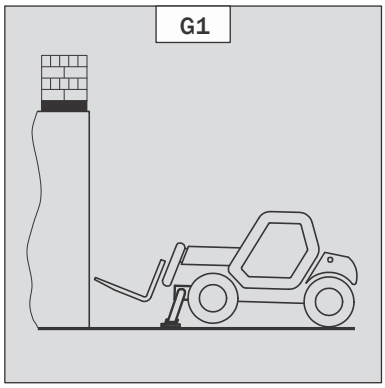
- Place the forks in front of the pile.

– Leave enough space for the telescopic arm to be raised.

– Set the gear lever to neutral.

– Place both stabilizers on the ground and raise the two front wheels of the telehandler (Figure G1) to maintain its lateral stability.

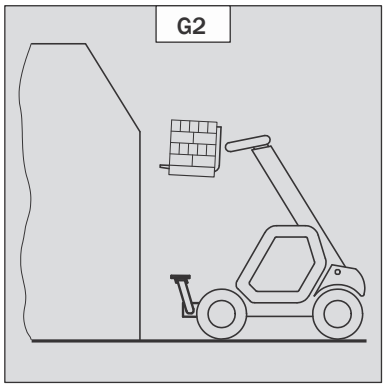
Raise the stabilisers with forks to the handling position (empty and loaded) – raise both stabilisers simultaneously to the highest position.



Setting the stabilizer when the telescopic arm is raised (empty and loaded)

This action must be taken exceptionally and with caution.

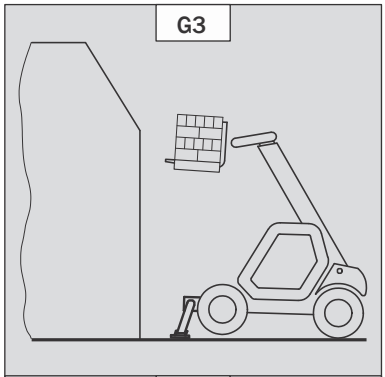
– Raise the telescopic arm and fully retract it.
– Move the telehandler slowly and carefully and stop it in front of the pile (Fig. G2).
– Set the gear lever to neutral.
– Move the stabilizers very slowly and smoothly when approaching or touching the ground.
– Lower both stabilizers and raise the two front wheels of the telehandler (Fig. G3). During operation, the horizontal position must always be maintained and the bubble in the spirit level must remain between the two lines.

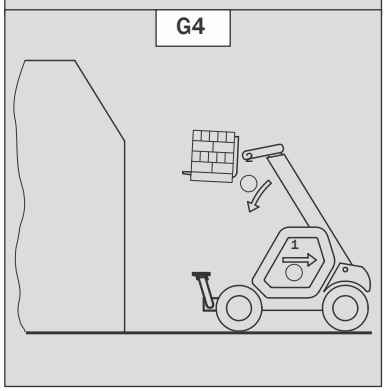


Lifting stabilizers when telescopic boom is raised (empty and loaded)

This action must be taken exceptionally and with caution.

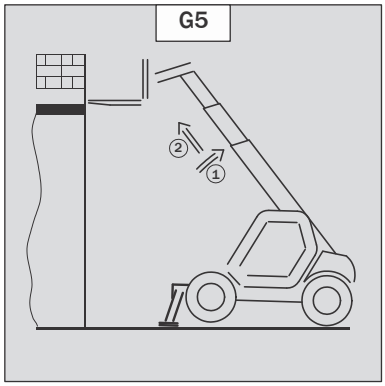
– Raise the telescopic arms and fully retract them (Fig. G3).
– Move the stabilizers very slowly and smoothly when approaching and leaving the ground. During operation, the horizontal position must always be maintained and the bubble in the spirit level must remain between the two lines.
– Fully raise both stabilizers.
– Slowly and carefully reverse (1), release and lower the forks (2) to the transport position (Fig. G4).



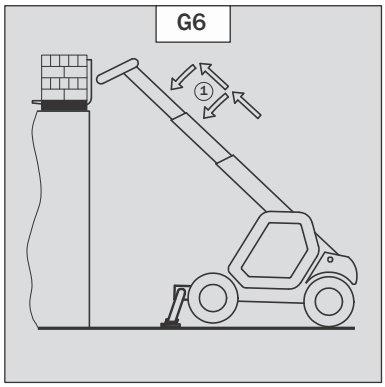


Retrieving a high load on the stabilizer
– Make sure that the forks can pass easily under the load.
– Check the position of the telehandler relative to the load and, if necessary, perform a test
run without load.
– Raise and extend the telescopic arm (1) (2) until the forks are at the same level as the load (Figure G5).
– Use the controls to alternately extend and lower the telescopic arm (1) (Figure G6) and lock the forks in front of the load.
– Gently lift the load (1) and tilt the fork carriage (2) backwards to stabilize the load (Figure G7).
– Monitor the longitudinal stability limiter and alarm device (see: Cargo handling instructions: C – Longitudinal stability limiter and alarm device). If overloaded , place the load in the retrieval position.
– If possible, lower the load without moving the telehandler. Raise the telescopic arm (1),
release the load, retract (2) and lower the telescopic arm (3) and place the load in the handling position (Figure G8).

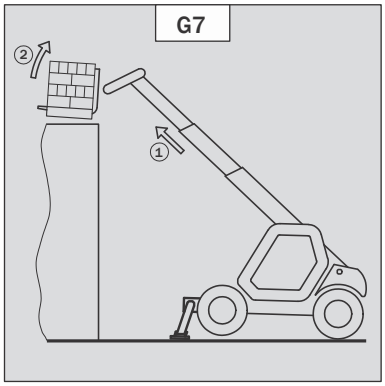
G5



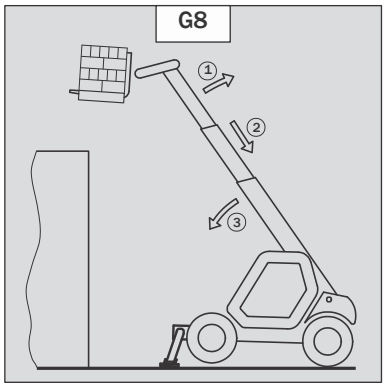
G6



G7

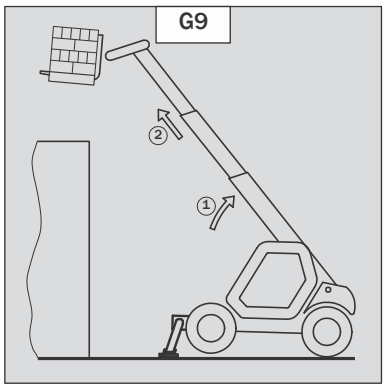


G8

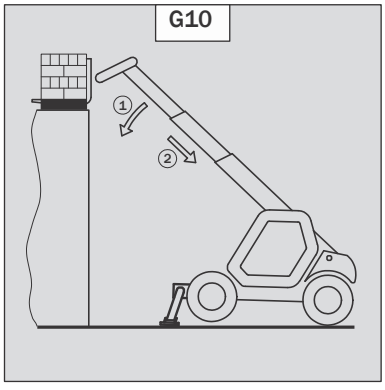


Place higher loads on the stabilizers
– Raise and extend the telescopic arm (1) (2) until the load is above the stack (Figure G9), always observing the longitudinal stability limiter and the warning device during operation (see: Cargo handling instructions: C – Longitudinal stability limiter and warning device).
– Place the load in a horizontal position and release the load by lowering and retracting the telescopic arm (1) (2) to achieve correct stacking (Figure G10).
– Release the forks by alternately retracting and raising the telescopic arm (3) (Figure G11).
– If possible, place the telescopic arm in the transport position and keep the telehandler stationary.

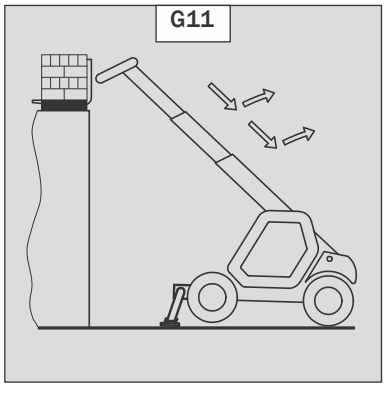
G9



G10



G11



H - Lift and lower hovering cargo.

WARNING: Failure to follow the above instructions may cause the telehandler to lose stability or even overturn.

Must be used with a telehandler equipped with a hydraulically operated cutting device.

Conditions of use
-The length of the sling or chain should be as short as possible to limit the swaying of the cargo. -Lift the cargo along the telehandler axis , and do not pull it horizontally or vertically.

Do not move the telehandler during handling
-Whether on stabilizers or tires, the lateral attitude cannot exceed 1%, the longitudinal attitude canno t exceed 5%, and the horizontal bubble must be maintained at "0". - Make sure the wind speed does not exceed 10 m/s.
- Make sure there is no one between the goods and the telehandler.

I - Driving with suspended load.

- Before the movement, check the terrain and avoid excessive slopes, crossing trenches, bumps, potholes or soft ground.
- Make sure that the wind speed is not higher than 10 m/s
- The telehandler must not be driven at a speed higher than 0.4 m/s (1.5 km/h, one quarter of walking speed).
- Drive and stop the telehandler carefully and smoothly to minimize load swing.
- Lift the load a few centimeters off the ground (maximum 30 cm) with the arm length as short as possible. Do not exceed the excursion indicated on the load diagram. If the load starts to shake violently, do not hesitate, stop immediately, lower the telescopic arm and put the load down.
- Before moving the telehandler, check the longitudinal stability limiter and the alarm device (see: 2 - Note: Instruments and controls), only the green LED and possibly the yellow LED should be lit.
- During the handling process, the telehandler operator must be assisted by a person on the ground (at least 3 meters above the load) who uses a pole or a rope to limit the swing of the load. Make sure that this person has a clear view at all times.
- The lateral attitude must not exceed 5%, the horizontal position must remain between the two "maximum" scales .
- The longitudinal attitude must not exceed 15% when the load is moving uphill and 10% when the load is moving downhill.
- The angle of the telescopic arm must not exceed 45°.
- If the first red LED of the longitudinal stability limiter and warning device (see: 2 - Note: Instruments and controls) lights up during driving, stop the telehandler gently and stabilize the load. Retract the telescopic arm to reduce the load deviation.

It is only possible to mount the platform on the telehandler if the guard is aligned with the platform when " operating the t e l e h a n d l e r platform" (see: 2 – Note: Platform operation).

A - Authorization for use
-Operation of the platform other than a telehandler requires further authorization

B - Is the telehandler suitable for use?
- Wanshi has confirmed that the telehandler is suitable for use in the standard operating conditions defined in this operator manual. The static test factor is 1.25 and the dynamic test factor is 1.1 as specified in the harmonized standard EN280 "Mobile elevating work platforms".
- Before commissioning, the company management must ensure that the platform is suitable for the work to be done and perform some tests (as required by current legislation).

C - Precautions when using the platform
– Wear clothing suitable for platform operation, avoid loose clothing.
– Do not operate the platform with wet hands or feet or with greasy substances.
– Always pay attention when using the platform. Do not listen to the radio or music with headphones or earphones .
– For increased comfort, the platform operator adopts a correct position.
– Under normal operating conditions, the platform guardrails do not relieve you from the responsibility of wearing a safety belt. Therefore, it is your responsibility to decide whether to wear a safety belt.
– The controls must not be used for any purpose other than the intended purpose (e.g. entering and exiting telehandlers, hangers, etc.).
– A safety helmet must be worn.
– The operator must always be in the normal operating position. It is forbidden to extend arms or legs, or any part of the body out of the work bucket.
– Make sure that any materials (pipes, cables, containers, etc.) on this platform cannot fall out. Do not pile up these materials, and step over them if necessary.

D - Using the platform
– Regardless of experience, the operator must be familiar with the location and operation of all controls before operating the platform.
– Before operating, check that the platform is properly assembled and locked to the telehandler.
– Before operating the platform, check that the access door is properly locked.
– The platform must be operated in an area that is free of any obstacles or dangers when lowering it to the ground.
– When the operator is using the platform, there must be a trained person on the ground to provide assistance.
– Work within the limits of the platform load table.
– The lateral stress is limited pressure (see: 2-Note: Characteristics).
– It is strictly forbidden to hang loads on the platform or telescopic boom without specially designed attachments. (See: Handling Load Note: H - Lifting and lowering a suspended load).
– The platform must not be used as a crane or elevator for the permanent transportation of people or materials, nor as a jack or support.
– It is forbidden to move the telehandler with one (or more) people standing on the platform.
– It is forbidden to move people on the platform using the hydraulic controls in the telehandler cab (except for rescue).
– The operator is forbidden to enter or exit the platform when the platform is not on the ground.
– Do not install accessories on the platform that can increase the wind resistance of the device.
– Do not use ladders or temporary structures to increase the height of the platform.
– Do not climb on the side of the platform to gain additional height.
E - Environment

It is prohibited to operate the platform near the cables. Maintain the specified safety distance

Nominal voltage	distance from the ground Unit (meter)
50 < U < 1000	230meter
1000 < U < 30000	250meter
30000 < U < 45000	260meter
45000 < U < 63000	280meter
63000 < U < 90000	300meter
90000 < U < 150000	340meter
150000 < U < 225000	400meter
225000 < U < 400000	530meter
400000 < U < 750000	790meter

It is strictly forbidden to operate the platform when the wind speed exceeds 45 km/h.

-The following wind levels are empirical evaluations of wind speed:

Beaufort Scale (Wind speed at 10 meters above the ground.)						
Wind force	Wind type	Wind speed (knots)	Wind speed (km/h)	Wind speed (m/s)	Impact on land	Sea surface conditions
0	No wind	0 - 1	0 - 1	< 0.3	Smoke rises vertically	The sea surface is like a mirror
1	Soft breeze	1 - 3	1 - 5	0.3 - 1.5	Smoke sways with the wind	There are scaly ripples
2	Light wind	4 - 6	6 - 11	1.6 - 3.3	Wind blows on the face, leaves shake	Small but obvious microwaves
3	Breeze	7 - 10	12 - 19	3.4 - 5.4	Leaves and twigs shake	Large microwaves
4	Gentle wind	11 - 16	20 - 28	5.5 - 7.9	Dust flies, paper flutters	Small waves, with more and more white foam on the wave crests
5	Fresh wind	17 - 21	29 - 38	8 - 10.7	Leafy shrubs shake	Medium waves are getting higher, with white foam on the wave crests
6	Strong wind	22 - 27	39 - 49	10.8 - 13.8	Large branches shake, electric wires whistle, umbrellas are difficult to hold	Big waves are formed, and the range of white foam is increased
7	Blast	28 - 33	50 - 61	13.9 - 17.1	The whole tree shakes, walking against the wind is difficult	The sea surface is surging, and the white foam is blown up in strips along the wind
8	Gale	34 - 40	62 - 74	17.2 - 20.7	Twigs break, walking against the wind is difficult	Big waves are rising, and the wave crests are breaking
9	Strong gale	41 - 47	75 - 88	20.8 - 24.4	Smoke protrudes from roof tiles, etc. will be damaged	The violent waves are surging, the white foam is thicker, and the visibility is reduced
10	Storm wind	48 - 55	89 - 102	24.5 - 28.4	Not common on land, but if seen, trees will be torn down or houses will be damaged	The violent waves are rolling, the white foam is piled up, and the visibility is reduce
11	Fierce wind	56 - 63	103 - 117	28.5 - 32.6	Very rare on land, but if seen, it will cause major disasters	The sea surface is completely covered by white waves, and visibility is greatly reduced
12	Hurricane	64 +	118 +	32.7 +	Cause very serious disasters	The air is full of white foam, and visibility is poor

F - Maintenance

Your platform must be regularly inspected to ensure its continued compliance (see: Maintenance: H-Rules for regular in spection of major safety functions). The frequency of inspections shall be determined by the legislation in force in the coun try where the platform is located.

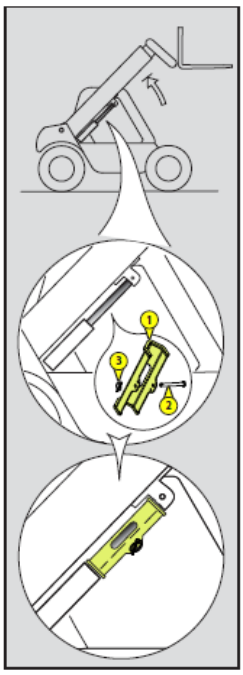
telehandler Maintenance Instructions

general description

-Ensure the area is well ventilated before starting the telehandler .
Wear appropriate telehandler
maintenance clothing and avoid jewelry and loose clothing.
Tie and protect your hair when necessary.

-When adjustment is needed, stop the engine and remove the ignition key.
Read the operator manual carefully.
-Perform all repairs immediately, even the smallest ones.
-Repair all leaks immediately, even if they are very small.
Ensure that the processing of process materials and parts is performed in a very safe and environmentally friendly manner.

-Be aware of the risk of burning and splashing (exhaust device, radiator, engine, etc.).



Place a safety wedge under the upper arm

The telehandler is equipped with a boom safety wedge, which must be installed on the piston rod of the boom lifting cylinder when working under the boom.

-Fully raise the upper arm

-Place the safety wedge 1 on the piston rod 2 of the upper arm cylinder and lock it with pin 1.

Slowly lower the upper arm until it touches the safety wedge.

Move the wedge

-Fully raise the upper arm

Remove the pin and piston rod

-Return the safety wedge to its original position

Maintenance

To keep the telehandler in good working condition, perform regular maintenance (see: 3-Maintenance). Irregular maintenance may result in the contract warranty becoming invalid.

Maintenance Log

Maintenance operations shall be performed in accordance with the recommendations specified in Part 3-Maintenance and Other Inspections. All maintenance, repair, or modification activities performed on telehandler s or their accessories must be documented in the maintenance log. Each entry should include: the latest project details, the name of the individual or company responsible for maintenance, the type and frequency of the operation, and the quantity of any replaced telehandler parts.

Lubricant and fuel level

-Use recommended lubricants (do not use contaminated lubricants).
Do not add fuel to the tank while the engine is running with the ignition key.
-Only fuel the specified area of the fuel tank.
Do not fill the fuel tank to the top of the liquid level.
Do not smoke or bring telehandler
s near open flames while the fuel tank is open or refueling.

hydraulic pressure

-Except for the operations mentioned in "3: Maintenance", it is prohibited to perform any work on the hydraulic circuit for cargo handling.
Do not loosen the connection device, hose, or any hydraulic component under circuit pressure.

Balancing Valve: For inspection procedures, refer to Section 3-Maintenance: D-Every 500 hours of operation. Modifying settings or removing balancing valves or safety valves installed on telehandler cylinders is extremely hazardous.

These operations must be performed exclusively by certified technicians (consult your dealer).

The hydraulic batteries that may be installed on telehandler s are pressure receptacles. The removal of these batteries and their fittings is a very dangerous operation and can only be performed by an approved technician (please consult your dealer).

electrical

-Do not short-circuit the starter relay when starting the engine. If the forward/reverse lever is not in neutral and the parking brake is not engaged, the telehandler

may suddenly start moving.-Do not drop metal objects on the battery.
-Disconnect the battery before working on the circuit.

weld

Disconnect the battery before performing any welding operation on the telehandler .
-When welding on a telehandler ,
connect the negative cable directly from the equipment to the part to be welded to
avoid high voltage current passing through the alternator.
-Do not perform welding or heat release operations on an assembled tire. Heat will increase pressure and cause the tire to explode.
-If the telehandler is equipped with an electronic control device,
disconnect it before welding to avoid irreparable damage to the electronic components.

Wash telehandler

– Clean the telehandler or at least the relevant area before making any adjustments.
– Remember to close and lock all access points (doors, windows, covers, etc.) of the telehandler .
– Avoid live connections, electrical components, and joints during rinsing.
-If necessary, prevent water, steam or cleaning agent from seeping in, and avoid contact with vulnerable parts, especially electrical parts and joints and oil spray pumps.
– Clean the telehandler and remove all fuel, oil, or grease residue.

For any adjustments other than scheduled maintenance, please contact your dealer.

If the telehandler will be out of service for a long time

explain

If the telehandler will be out of service for a long period of time,
the following recommendations should be taken to protect the telehandler from damage.

For these operations, we recommend using a universal protection product. The package provides instructions for use.

If the telehandler will be out of service for an extended period, follow the procedure below, starand subsequentts must be performed by your dealer.

Prepare telehandler

-Thoroughly clean the telehandler .
-Check and repair any fuel, oil, or air leaks.
-Replace or repair any broken or damaged parts.
-Rinse the painted surface of the telehandler
with clear cold water and wipe them.-Polish paint parts when necessary.
-Turn off the telehandler (see:

Operation instructions for empty and loaded conditions).

Ensure all telescopic arm cylinder rods are in the retracted position.
-Release pressure from the hydraulic circuit.

Protect engine

-Refill the fuel tank (see: 3-Maintenance: A-Daily or every 10 working hours).
-Drain and replace coolant (see: 3-Maintenance: F-every 2000 hours of operation).
-Let the engine idle for a few minutes and then turn it off.
-Change engine oil and oil filter (see: 3-Maintenance: D-Every 500 hours of operation).
-Add protective products to engine oil.

-Run the engine for a short time to ensure internal oil and coolant circulation.
-After fully charged, disconnect the battery and store it in a warm, safe place.
-Remove the injector, keep the piston in the lower idle position, spray protective product on each cylinder for two minutes.
-Slowly rotate the crankshaft one full turn and reinstall the syringe (refer to the engine repair manual).
-Remove the intake hose from the manifold or turbocharger and spray protective products on the manifold and turbocharger.
-Cover the intake manifold or turbocharger with waterproof tape.
-Remove the exhaust pipe and spray protective products on the exhaust manifold or turbocharger.

-Reinstall the exhaust pipe and seal the outlet with waterproof tape.
Note: The spray time is indicated on the product package, and the spray time for the turbo engine must be increased by 50%.
-Open the feed plug, spray protective product around the rocker shaft, and reinsert the feed plug.
-Cover the fuel tank with waterproof tape.
Remove the drive belt and store it in a safe place.
Disconnect the engine cutoff solenoid valve from the fuel injector and carefully separate the connector.

Protect Fords

-Place the telehandler
on the axle seat to prevent the tires from
touching the ground, and release the manual brake.
-Protect the non-retractable cylinder rod from corrosion.

-Wrap the tire.

Note: If you need to park the telehandler outside,
cover it with a waterproof tarpaulin.

Put the telehandler back in service

-Remove all waterproof tape from the holes.
-Reinstall the air intake.
-Reinstall and connect the battery.
-Remove the protective cover from the hydraulic cylinder rod.
-Perform daily maintenance (see: 3-Maintenance: A-Daily or every 10 working hours).
-Activate the handbrake and remove the axle frame.
-Empty and replace fuel and its filter (see: 3-Maintenance: D-every 500 hours of operation).
-Reinstall and adjust the tension in the drive belt (see: 3-Maintenance: C-every 250 hours of operation).
-To allow the oil pressure to rise, use the starter to turn the engine.
-Reconnect the engine cutoff solenoid valve.
-Thoroughly lubricate the telehandler (see: 3-Maintenance: Maintenance Schedule).

Ensure good ventilation in the area before starting the telehandler .

-Start the telehandler (see: Operation instructions for empty or loaded conditions) and follow safety instructions and rules
-Perform hydraulic movements for all extension arms, concentrated at the end of each cylinder stroke.

2 - Description

Contents

Safety Signs and Labelstelehandler 2-4

Identification 2-11

Feature 2-13

Dimensions and Loading Diagrams 2-15

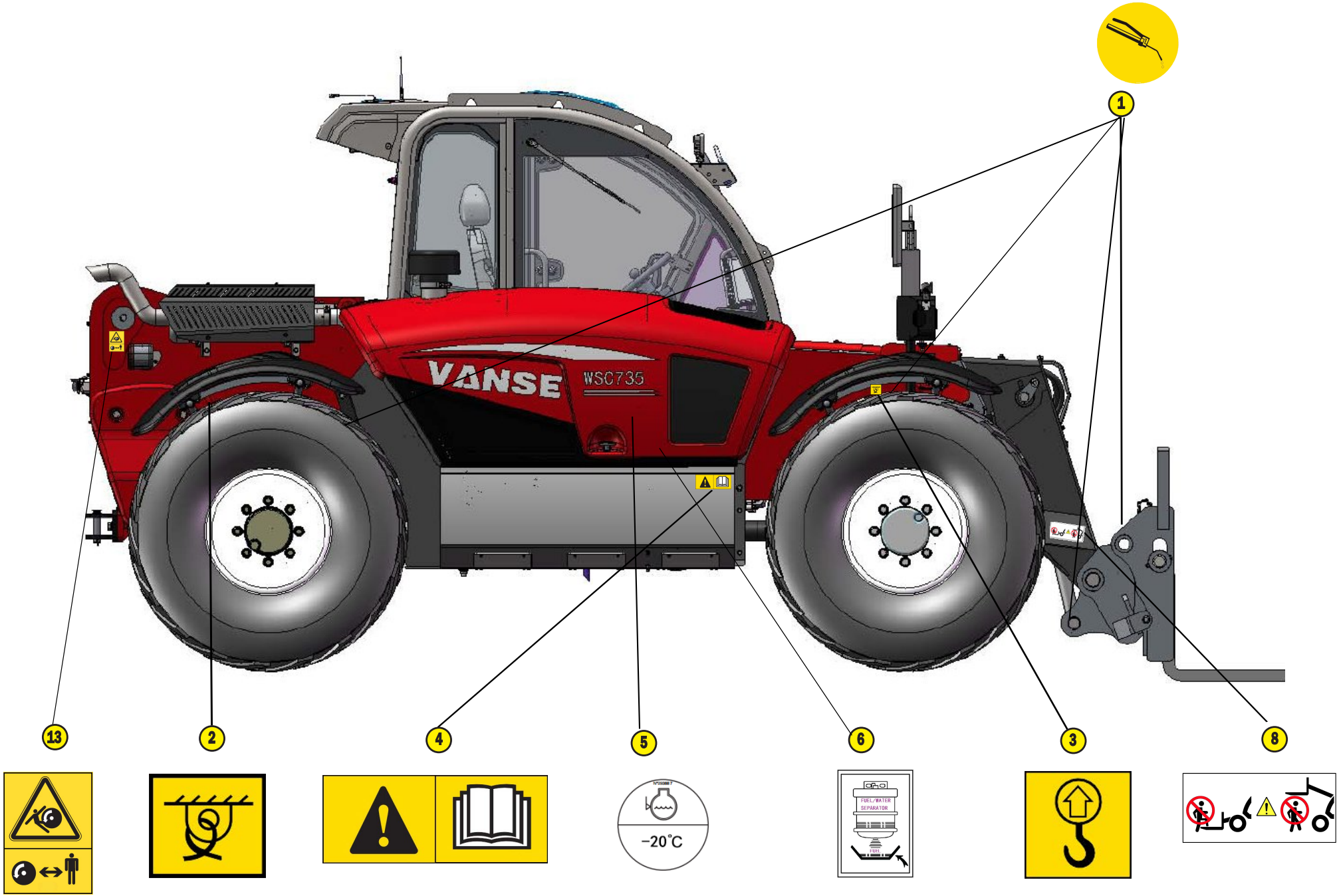
Instruments and controllers 2-18

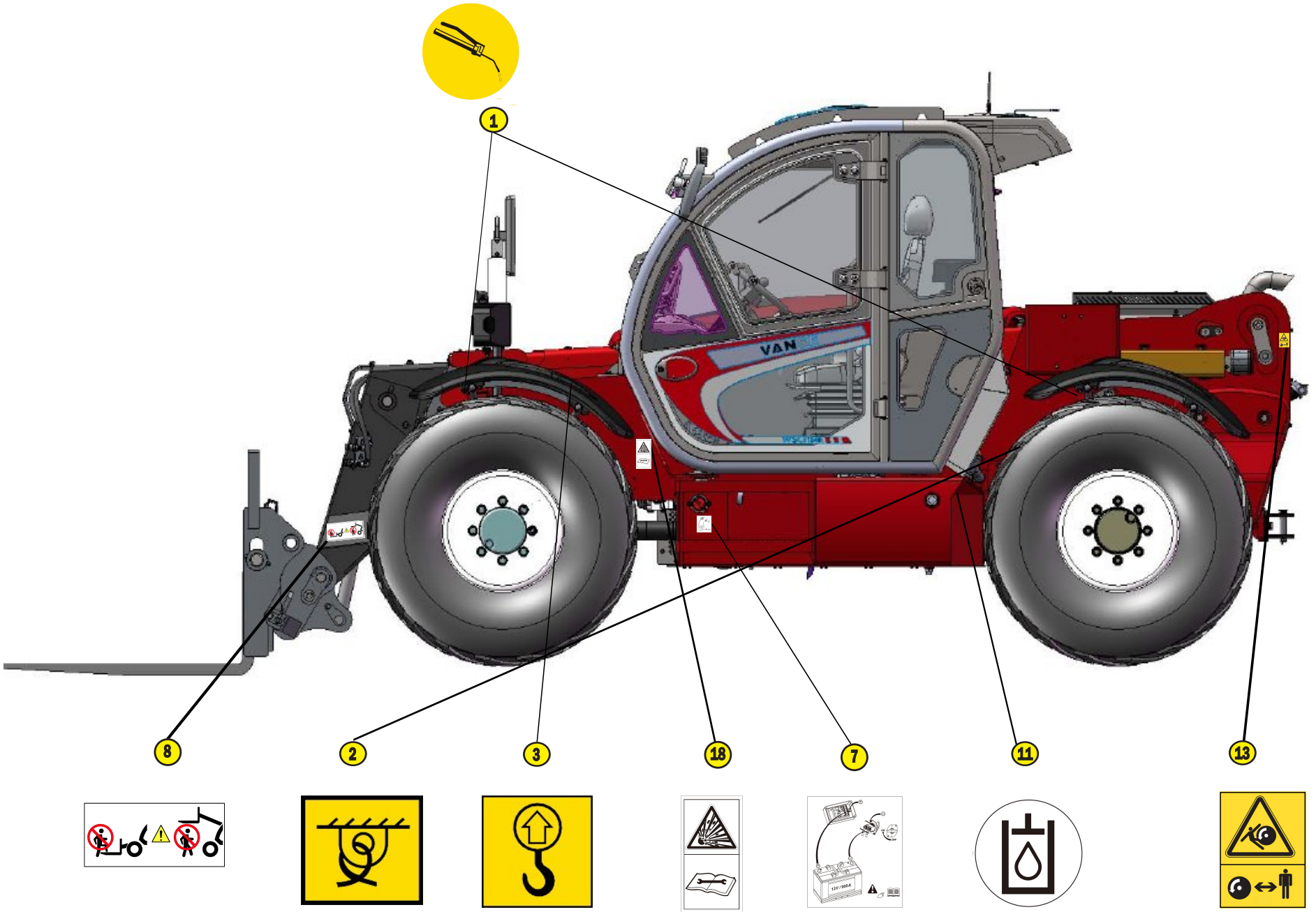
Safety Signs and Labels

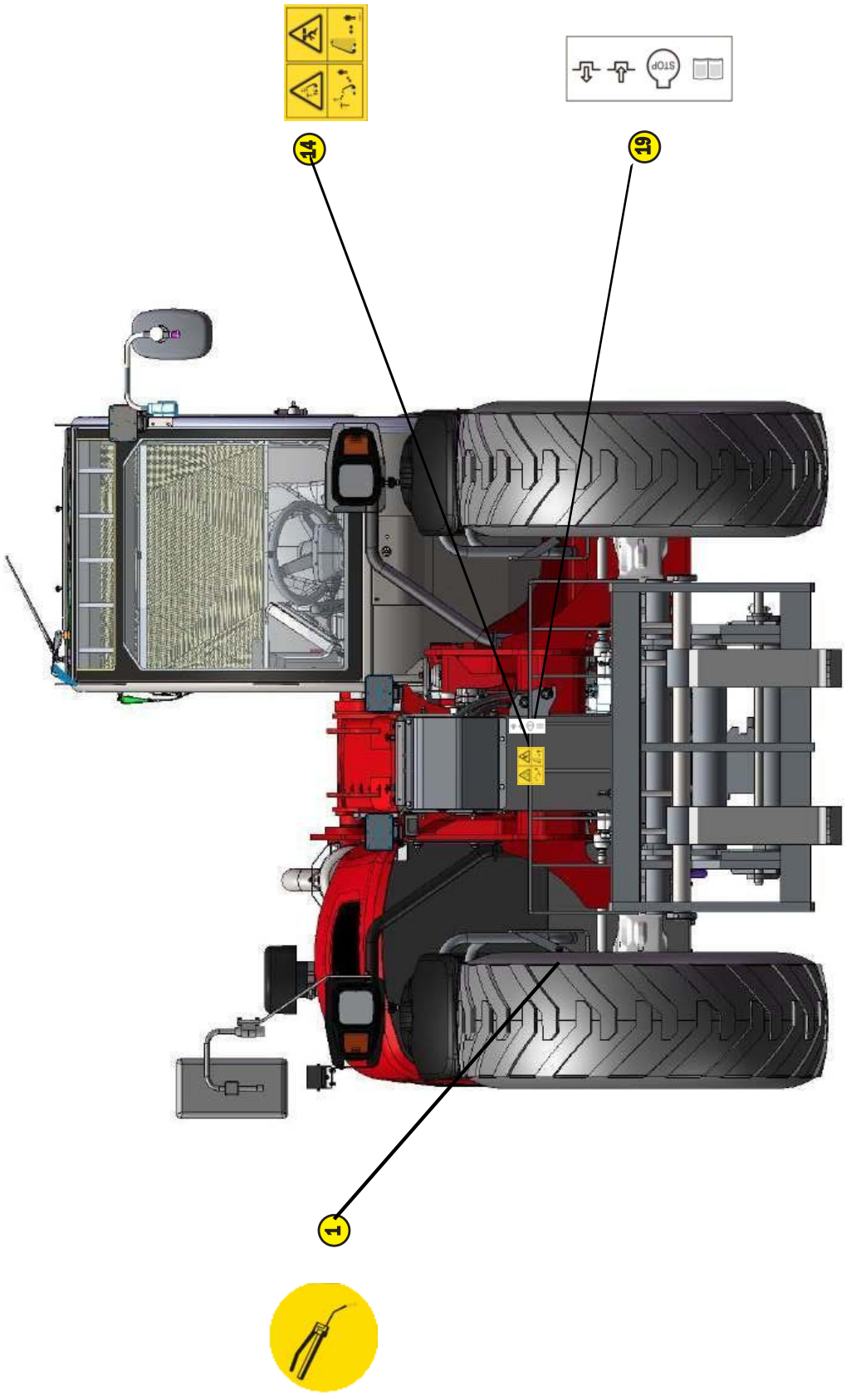
Faded and damaged labe s must be replaced. Please contact you dealer.

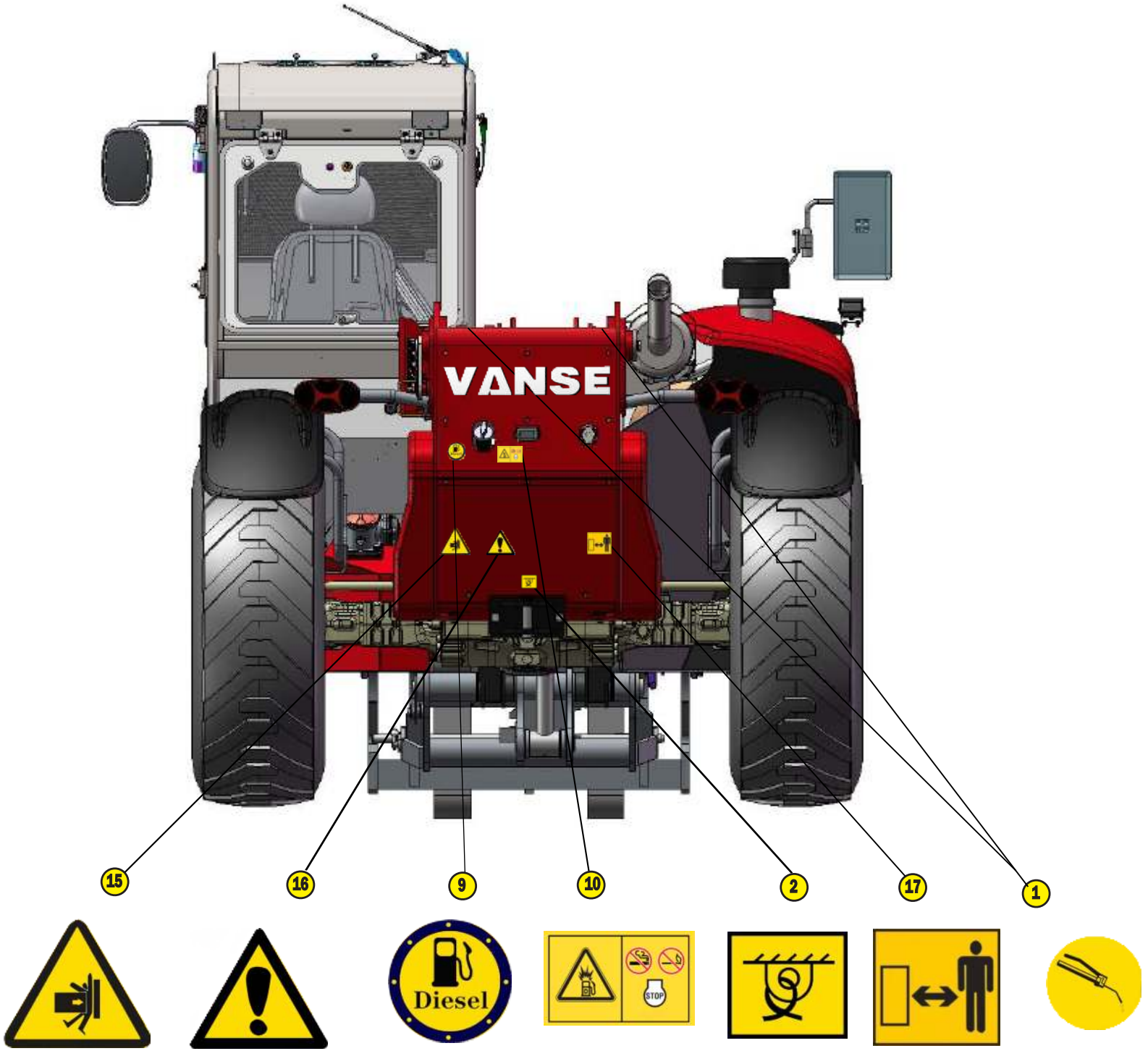
1 - Exterior Signage and Labels

Figure NO.	Part Number	describe
①	9909010248-02	Grease filling point
②	9909010248-03	Rope point
③	9909010248-04	Safe lifting point
④	9909010248-05	Pay attention to read the instructions carefully
⑤	9909010248-06	antifreeze
⑥	9909010248-07	Oil-water separator
⑦	9909010248-08	Battery switch
⑧	9909010248-09	There is no master on the fork
⑨	9909010248-10	diesel fuel
⑩	9909010248-11	Explosion and burn hazard
⑪	9909010248-12	Hydraulic oil
⑫	9909010248-13	Power supply safety distance
⑬	9909010248-14	Crushing hazard
⑭	9909010248-17	Electric shock hazard
⑮	9909010248-18	Prevent injuries
⑯	9909010248-19	warn
⑰	9909010248-20	Stay away from machines
⑱	9909010248-21	Accumulator Danger
⑲	9909010248-22	Hydraulic Quick Connector Guide


VANSE
WSC735
1
13
2
4
5
6
3
8
−20˚C
FUEL/WATER SEPARATOR
FUEL

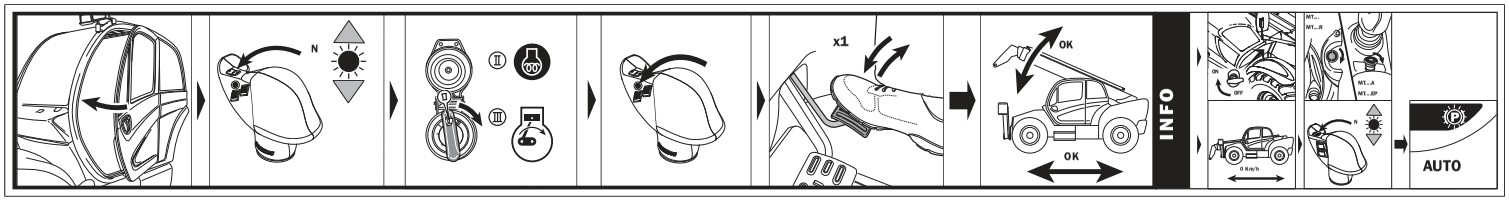

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11
13

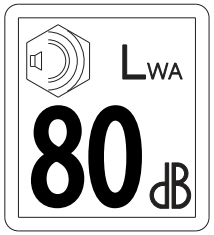

14
19
1

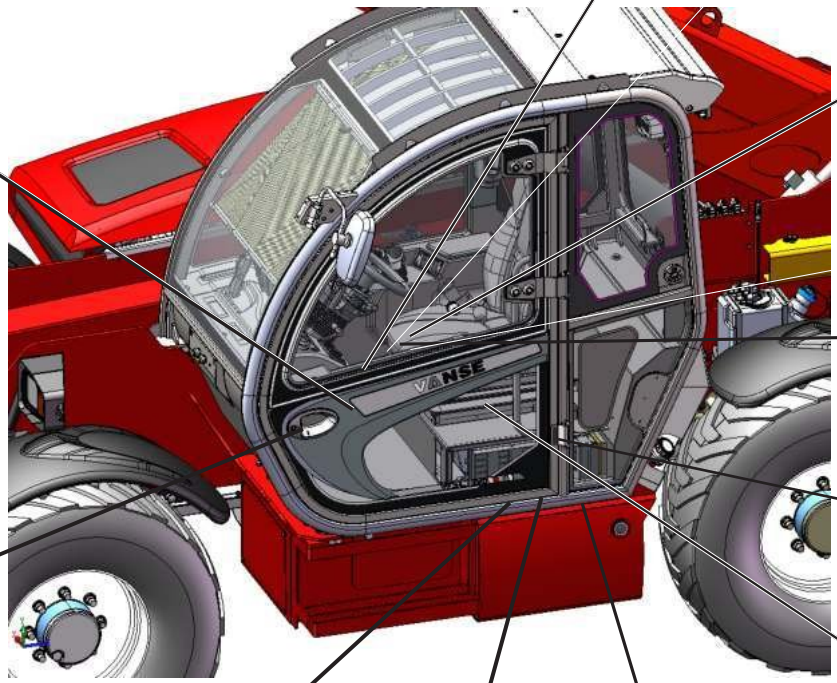

VANSE
15
16
9
10
2
17
1
Diesel
STOP

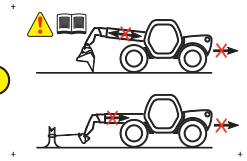
2-Driver's cabinlabel

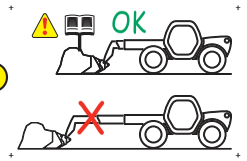
Drawing number	Part number	Describe
①	9909010248-31	Noise: 80dB
②	9909010248-32	The driver is in position and starts
③	9909010248-33	The bucket is on the telescopic arm
④	9909010248-34	No back scraping
⑤	9909010248-35	Fasten your seat belts
⑥	9909010248-36	Cab meets standard
⑦	9909010248-37	load diagram
⑧	9909010248-38	Electrical hazard
⑨	9909010248-39	SOS Use platform first aid
⑩	9909010248-40	Machine nameplate


x1
OK
OK
INFO
AUTO

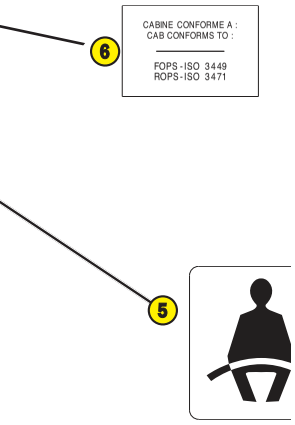

LWA
80 dB

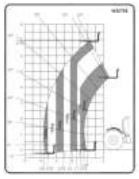

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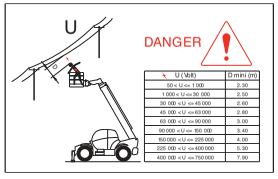

L


OK


VANSE
伸缩臂式叉装车
Telehandler
型号 Model
系列 Series
生产日期 Year of manufacture
外形尺寸 Dimension
生产编号 Serial Nr.
功率 ISO1585 Power ISO1585
空载质量 Unladen mass
额定载荷 Rated capacity
牵引力 Tractive force
最大起升高度 Max. lifting height
最大行驶速度 Max. travel speed
山东万世机械科技有限公司
Shandong Vanse Machinery Technology Co.,LTD


CABINE CONFORME A :
CAB CONFORMS TO :
FOPS - ISO 3449
ROPS - ISO 3471




U
DANGER


SOS

telehandler appraisal

In view of our company's policy to promote continuous product improvement,our company's telescopic telehandler series will be subject to specific modifications,for which we do not assume responsibility to advise customers.When ordering parts or requesting any technical information, always indicate:
Note: For the convenience of the owner,it is recommended to fill in these numbers in the space when the telehandler
delivers the goods.

telehandler nameplate manufacturer (Figure A)

A

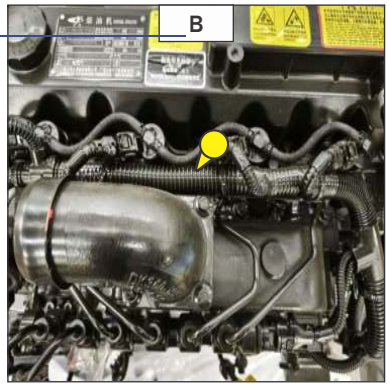


-model ----------
-series ----------
-serial number - ----------
productive year

For more technical information about telehandlers, refer to Chapter 2-Description: Features.

Engine (Figure B)

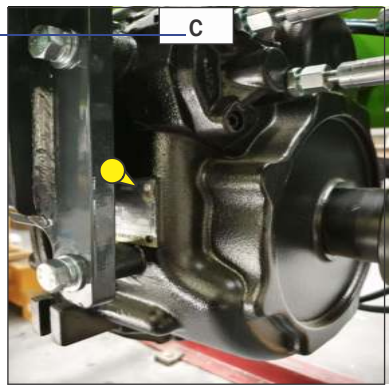
B



-Engine number ----------

Tanks (Figure C)

C



-model ----------
-reference for all ages ----------
-serial number ----------

Front axle (Fig. D)

D



-model ----------
-reference for allages ----------
-serial number ----------

Rear axle (Fig. E)



-model ----------
-serial number ----------
-reference for all ages ----------

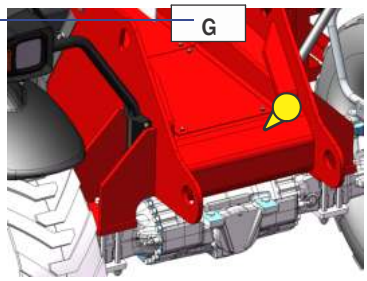
Manufacturer's nameplate for fittings (Figure F)

F



-model ----------
-serial number ----------
-productive year ----------

Rack (Figure G)



-telehandler serial number ----------

Feature

Engine		Yuchai
Model		Yuchai
Fuel oil		Diesel
Number of cylinders		In-line 4 cylinder
Drawing-in		Pressurize
Injection system		Beat
Ignition order		1.3.4.2
Displacement	Rise	3.621
Cylinder diameter and stroke	Milli metre	98x120
Rated speed	Turnsper minute	2200
Rated speed at no load and low speed	Turnsper minute	950
Maximum rated speed at no load	Turnsper minute	2376
Power	Kilowatt	73.5
Acrot orque	Rice noo-dles	400
Air cleaner	Micron	3
Cooling-down method		Water-cooled
Electric fan		Pull-type

Transmission		
Gear-box		Carlo
Model		CA532500REV4
Forward/reverse selector		Electric hydraulic
Torque converter		-
Number of forward speed gears		-
Reverse gear speed		-
Variable speed gearbox		-
Front axle		Carlo
Differential mechanism		Latch-up-free
Rear axle		Carraro
Differential mechanism		Latch-up-free
Driving wheel		4RM, permanent
2/4Drive wheel switch		Not allow
Front tires		Advance
Size		460/70R24 tubeless
Pressure	Hope ear-nestly	4.5
Rear tire		Advance
Size		460/70R24 tubeless
Pressure	Bar	4.5

Circuit	
Cell	6-QW-120(900)-T
Alternating-current generator	14V120A
Model	-
Starter	12V3.7KW
Model	-

Braking circuit	
Service brake	Hydraulic power braking
Brake type	Oil-immersed multi-disc brake
Controller type	Hydraulic front and rear axles
Parking brake	Low pressure brake
Brake type	Oil-immersed multi-disc brake
Controller type	Electric hydraulic

Sound and vibration		
LpA is the sound pressure level in thecab (Standard NFEN 12053)	Decibel	80(Drive cab closed)
Sound pressure levels in the LwA environment (under Directive 2000/14/EC as amended by Directive 2005/	Decibel	106 (pledge)

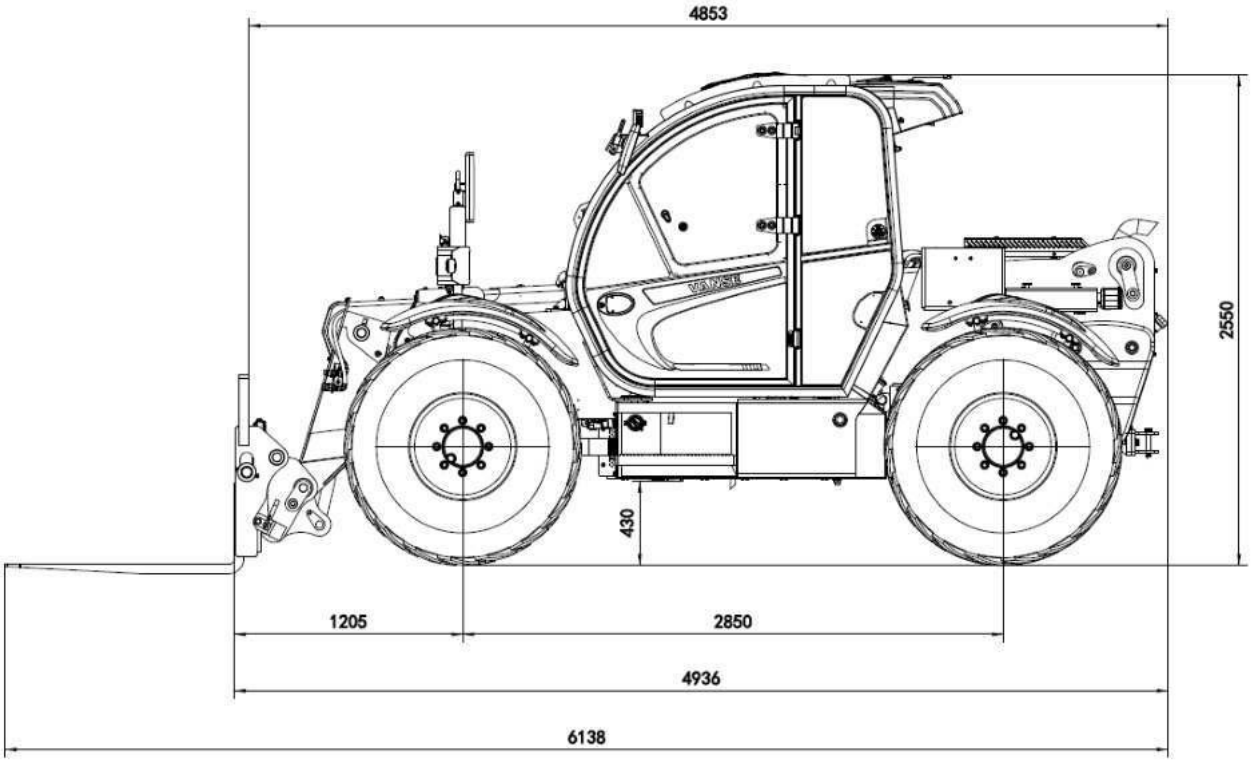
88/EC)		
The average weighted acceleration of the driver's body (Standard NF EN 13059)	m/s^2	0.985
The average weighted acceleration transmitted to the driver's hand/ arm system (ISO5349-2)	m/s^2	<2.5

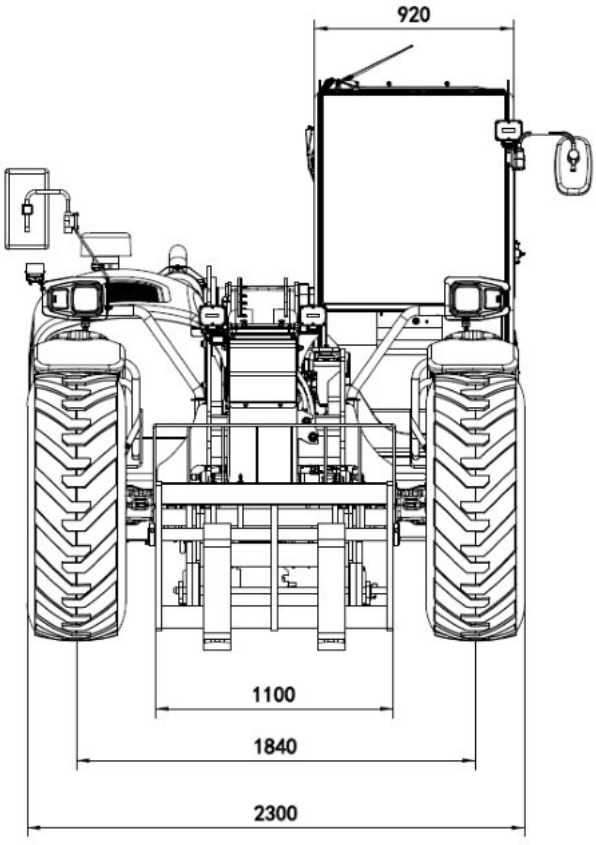
Hydraulic circuit			
Hydraulic pump		Danfoss	
Model			
		Walking pump	Work pump
Displacement	ml/r	78	60
Maximum rated flow at no load	Litres per minute	171.6	132
The flow rate at 1500 RPM	Litres per minute	117	90
Filter			
Back-flow	Micron	20	20
Drawing-in	Micron	100	100
Maximum working pressure	Bar	275	
The retractable loop	Bar	190/275	
Improve the circuit	Bar	210/275	
Tilt circuit	Bar	280/190	
Stabilizer circuit	Bar	275	
Tilt correction loop	Bar	275	
It belongs to the circuit	Bar	275	
Turn back the loop	Bar	190	

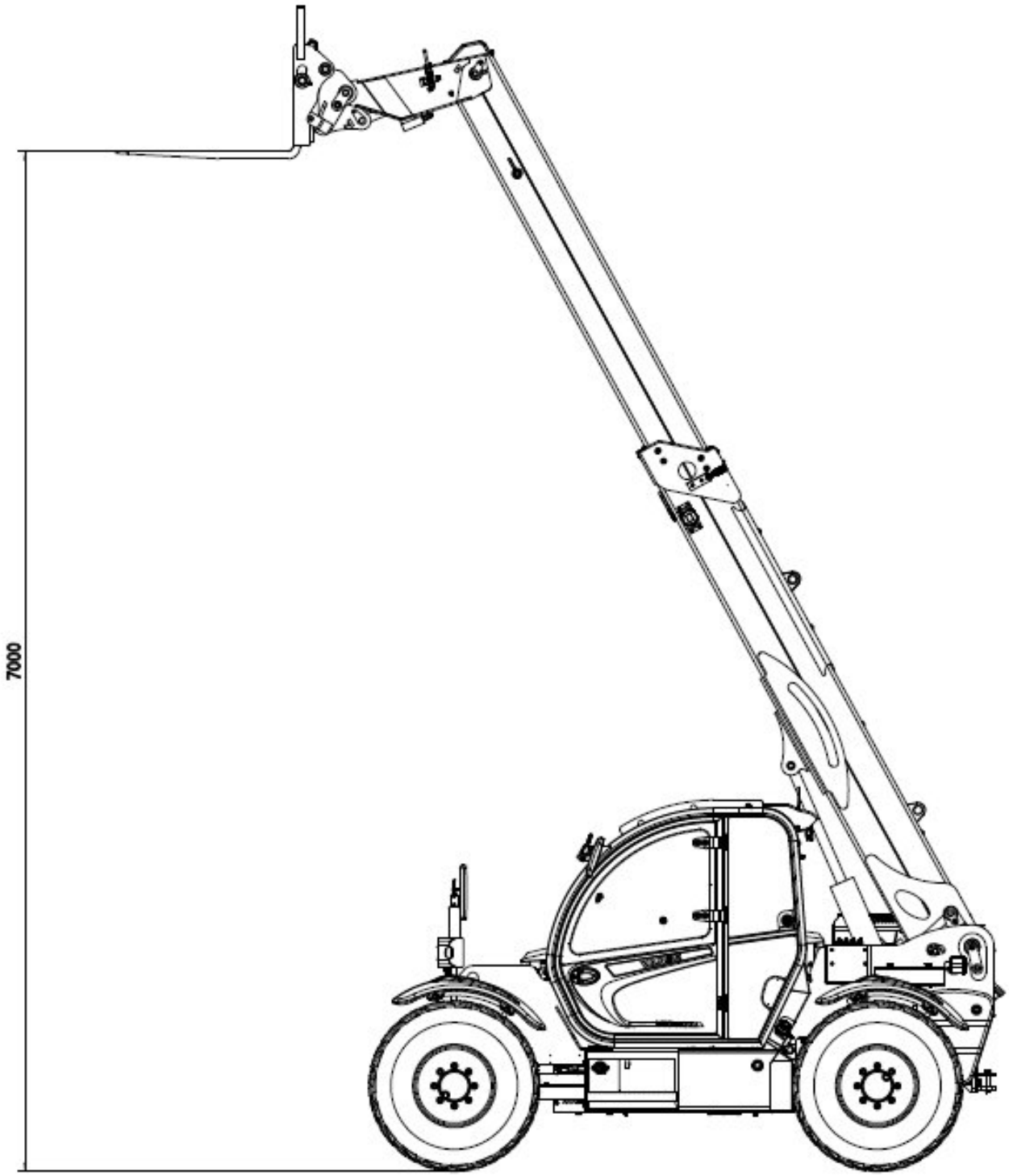
Hydraulic motion		
Vertical stability limiter and alarm device		Motor-driven
Increase movement(arm retraction)		
Empty load lift	s	8.2
Empty loaddown	s	6.4
Stretching exercise (arm raise)		
Unloaded deployment	s	8
Empty load retracted	s	5
Tilt movement		
Empty-load digging	s	2.8
Empty load forward lean	s	2.3

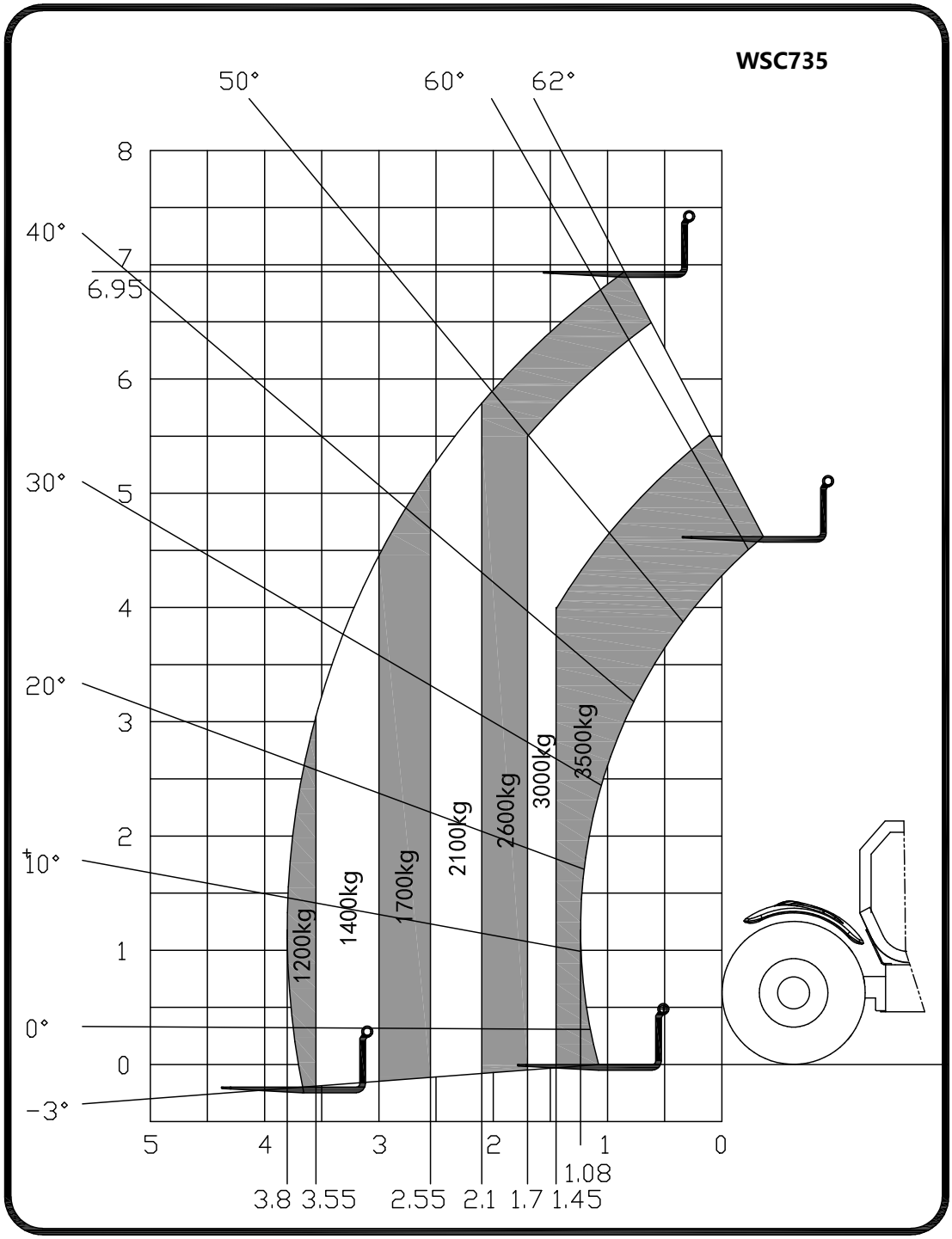
Specifications and weight		
Standard configuration for telehandler movement speed on flat ground(except under special conditions)		
The front axle is empty 1	Km/h	11
2	Km/h	40
The rear axle is empty 1	Km/h	11
2	Km/h	40
Standard accessory		
The weight of the delivery fork	Kilogram	228
Pallet weight (each)	Kilogram	71
Rated carrying capacity with standard accessories	Kilogram	3500
The rollover load of the stabilizer at maximumextension	Kilogram	1110
The distance between the center of gravity of the load and the fork ear	Millimetre	500
Increase the weight of the standard	Kilogram	3500
The weight of a telehandler without attachments	Kilogram	

		7340
The weight of a telehandler with standard attachments		
Carrying idler	Kilogram	7710
Rated load	Kilogram	3500
Weight of each axle with standard fittings (handling position)		
The front axle is empty	Kilogram	3330
The rear axle is empty	Kilogram	4035
Rated load of front axle	Kilogram	10140
Rated load of rear axle	Kilogram	1325
Weight of each axle with standard fittings(arms extend-ed)		
Rated load of front axle	Kilogram	7950
Rated load of rear axle	Kilogram	715
Drag strain at the coupling hook		
No load (sliding)	Dyne	5900
Rated load(transmission setting)	Dyne	9100
Tensile strain with open fork(according to standard ISO 8313)	Dyne	5500


4853
2550
430
1205
2850
4936
6138

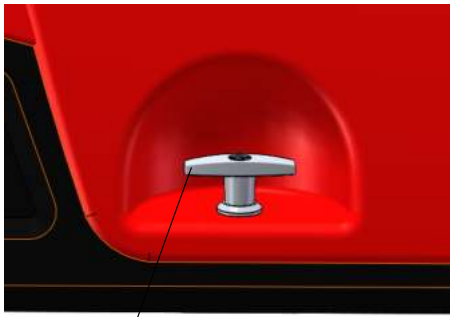

920
1100
1840
2300


7000


WSC735
50°
60°
62°
40°
30°
20°
10°
0°
-3°
8
7
6.95
6
5
4
3
2
1
0
1200kg
1400kg
1700kg
2100kg
2600kg
3000kg
3500kg
5
4
3
2
1
0
3.8
3.55
2.55
2.1
1.7
1.45
1.08


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description

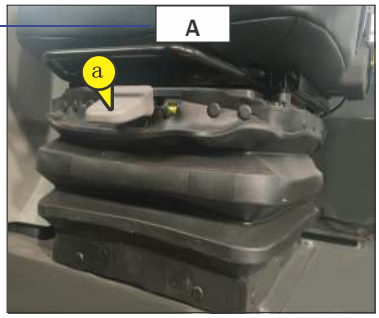
1-Pneumatic driver's seat
2-life belt
3-Fuse and relay in the cab
4-Side storage space
5-hydraulically operated control
6-A water glass holder
7-Car brake pedal
8-accelerator pedal
9-ignition switch
10-Function control panel
11-Emergency stop button

12-Glass wiper control lever
13-steering wheel
14-human-computer interface
15-Air conditioning ventilation hole
16-radio
17-gradienter
18-Open and close the cab door
19-Air conditioning and other controllers
20-Indicator light switch
21-mains switch
22-Engine hood opening handle
23-Side window switch handle
24-Rear window switch handle
25-A survival hammer

26-Rear lights
27-Headlights
28-work light
29-revolving light
30-cabrear taillights
31-Storage compartments
32-Arm safety wedges

Note: All terms such as "right,left,front,back"correspond to the observer sitting in the driver's seat and looking forward.

1-Pneumatic driver's seat

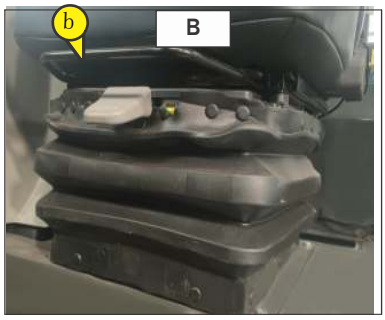


To achieve optimal comfort,the seat can be adjusted as follows:

Seat height adjustment (Figure A)
It is recommended to adjust the seat height according to your weight when sitting.

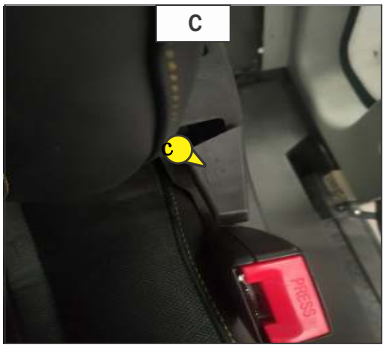
-Turn on the telehandler ignition switch.
-Press or pullleverA,the seat will go downorup,the driver can adjust according to his height and weight
-The right seat height.

To avoid damage, the compressor should not be started for more than 1 minute.



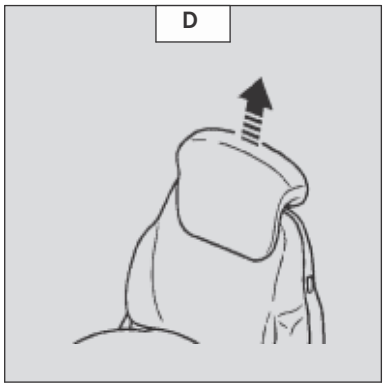
Adjust the seat front and back (Figure B)
When the seat height adjustment is completed,you can adjust the front and rear position of the seat according to your personal situation.
-The driver sitsup, pulls leverb,adjusts the seat front and back to obtain a satisfactory position.

Seat back Angle adjustment(Figure C)
The seat back Angle can be adjusted according to individual circumstances.
-Press the left buttonc to push or release the pressure on the seat to get a comfortable position.



If you don't lean against the backrest during the adjustment, the backrest will swing completely forward.

-elongated head support(Fig.D)
-The backrest height can be adjusted by pulling it up to the highest position (a click will be heard in the gap).
-Enough pressure can be applied to pull the head away from the highest position.



2-lifebelt

-Sit in the chair correctly.
-Check if the seat belt is twisted.
-Loop the seat belt around the hips.
-Fasten your seat belt and check that it is locked.
-Adjust the seat belt according to your body shape so that it does not squeeze your hips and is not too loose.

Do not use the telehandler if the safety belt is faulty (fixed,locked,cut,torn,etc.).Repairor replace the safety belt immediately.

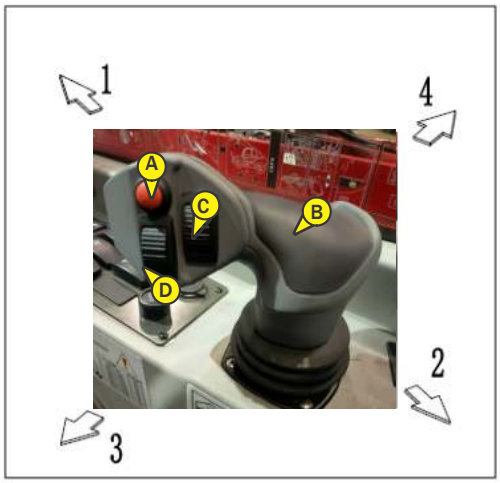
3-Fuse and relay in cab

-Open the cover 1 behind the cab seat to access the fuse and relay.Replace the used fuse with a fuse of the same mass and capacity.Do not use a repaired fuse.
-The label paper inside the panel clearly describes the use of the following parts.



Rear wiper 15A	Right wiper 15A	front wiper 20A	light 20A	headlamp 25A	seat 30A	air conditioner 30A	cigarette lighter 10A	trumpet 10A	Ignition switch 15A
						radio 10A	condensing fan 25A	monitor 15A	controller 30A

4-hydraulically operated control



A-Enable key button.

B-Raise and ti lt the control bar.

C-The zoom control button.

D-Platform rotation control button.

Unlock button

Only by pressing the A enable button can the hydraulic controller be operated to achieve action.

lifting platform

- When lifting, pull control lever B backward in direction 2.
- When lowering, push control lever B forward in direction 1.

Note: When using the platform, the telescopic arm lift angle is limited to 17°

Tilt the platform

-Pull the control lever B to the left in direction 3 to tilt the platform backward.
-Pull the control lever B to the right in direction 4 to tilt the platform forward

stretch out and draw back

-Pull button C upward when extending the arm

-Pull down button C when retracting the arm.

Note:When the telescopic arm is fully retracted,keep operating the controller to allow all the telescopic arms to be fully retracted.



If the conditions for use are met and the presence of the driver is confirmed,the front and rear gear selection control can be used first. (See:2-Description: Human-machine interface)

When operating the controller,the telehandler should be driven at low speed and shall not accelerate.

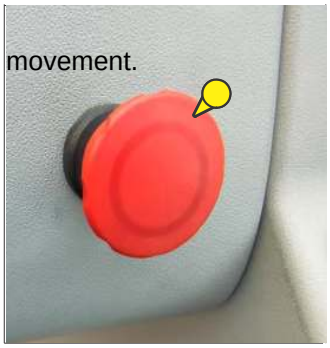
Forward gear:Press the forward switch(position a).
Reverse gear:Press the reverse switch(position b).
Neutral gear:Start the parking brake(position c).

Note:The reverse light and a reverse sound alarm indicate that the telehandler is reversing.

5-Car brake pedal

The pedal acts on the front and rear wheels through the force generated by the hydraulic brake system, causing the telehandler to slow down and stop.

6-Emergency stop button



- In the event of an accident, it can be used to stop the engine and cut off all hydraulic movement.
- Pulling the button can disable it and restart the telehandler.

When using the emergency button,be careful not to stop the hydraulic movement abruptly.

Warning: When driving,if the parking brake is used,the telehandler will stop suddenly.If possible,stop the telehandler before using the emergency stop.

7 -Function control panel



A-Turn the steering mode selector

This key controls the arrangement of wheels relative to the telehandler.

-Front wheel steering (road traffic)

-Front and rear wheels in reverse(short steering lock)

-Front and rear wheels turn in the same direction (crab turn).

aWhen selecting one of the three possible steering positions, align all 4 wheels with the telehandler axle. Changing the steering mode is prohibited while driving.

Before driving on the road, it is necessary to check the alignment of the rear wheels and drive the telehandler in the front wheel steering mode. When driving the telehandler, the alignment of the rear wheels must be controlled regularly. If any abnormality is found, please consult your dealer.

b-No function

c-Parking gear

Open and close the parking gear manually.

d-Longitudinal stability limit release button

e-Speed control button

Operate when the vehicle is completely stopped.

-Slow mode

-Fast mode

f - High beam/working light control

Press the top of the f key to turn on the high beam and working light at the same time, and press the bottom key to turn off the light.

g - Flash light control

Press the top of the g key to turn on the flash light, and press the bottom key to turn off the light.

h - Hazard warning flasher function control

j - Top/rear side windshield wiper control

Press the top of the D key to turn on the top and rear side windshield wipers at the same time, and press the bottom key to turn off the wipers.

k - Side windshield wiper control

Press the top of the m key to turn on the side windshield wipers, and press the bottom key to turn off the wipers.

m - External data port

n - Cigarette lighter function port

Pressing the speed control button before the vehicle stops will not cause the gear shifting operation to take place. The operation will only be performed when the vehicle stops.

8-Ignition switch

The key switch has three positions:

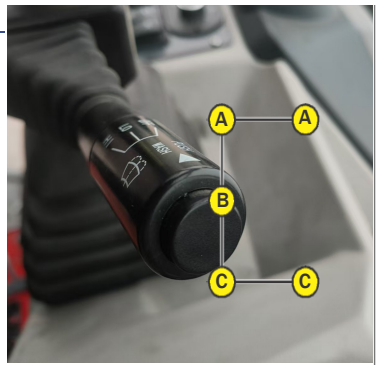
Right turn-power on and enter self-test.

Right turn two-Start the engine and reset to the power-on position after releasing the hand.

Left turn-Fire out,engine stops.

When starting the engine,make sure the forward/reverse selector is in neutral.

9 - Windshield wiper lever



Front windshield wiper

A - The front windshield wipers stop.

B - Front windshield wipers slow speed.

C - Front windshield wipers fast.

D - Front windshield washers, pulse drive.



For details on rear/side windshield wiper control, see 2-Description: 12-Air conditioning and other controllers

10 - Human-machine interface



Updates: To get the maximum benefit of your telehandler's HMI, please contact your dealer for the latest version of the software.

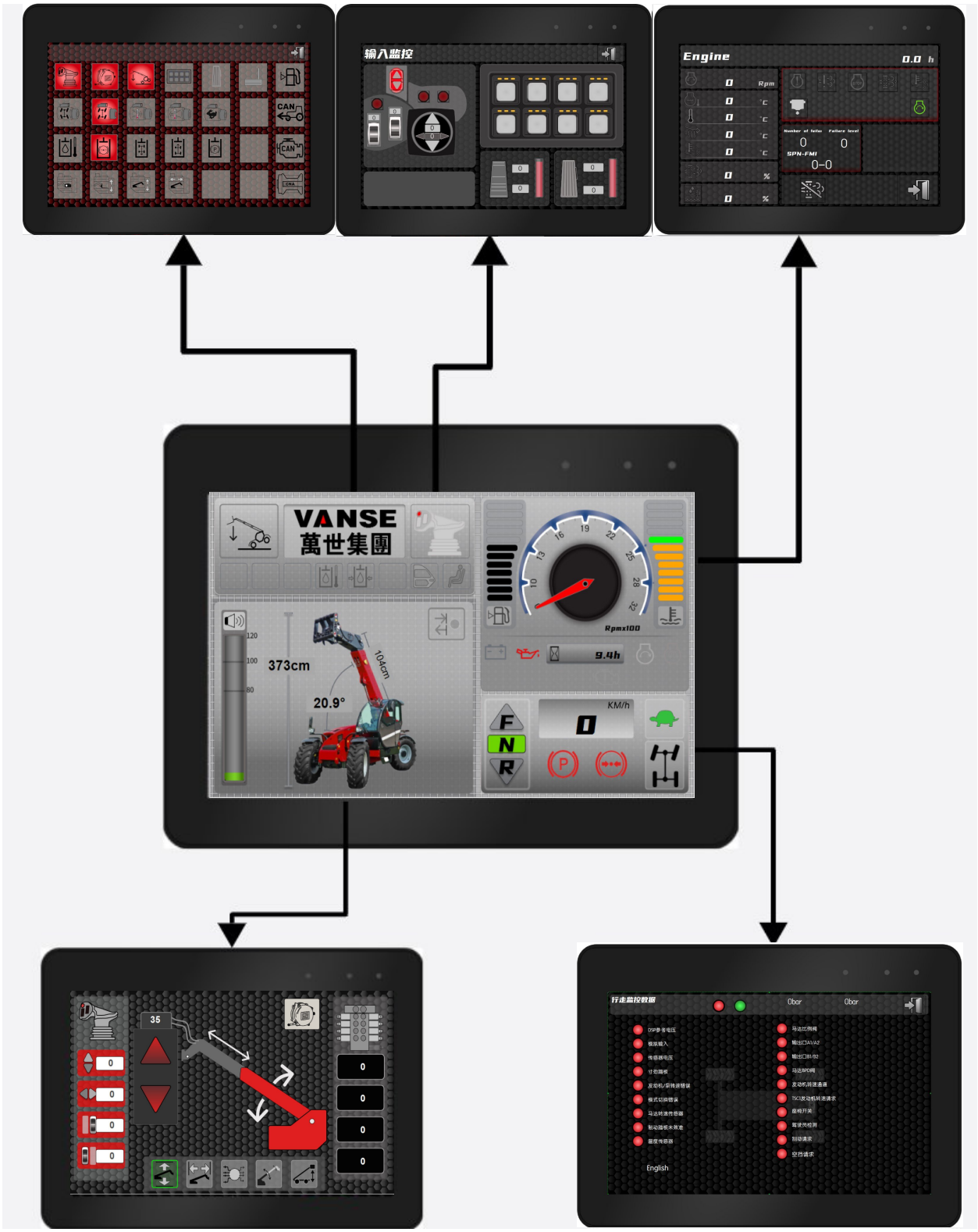
10A - Driver in position

Confirm that the driver is in position when the following three points are operated in the correct order.

1 - The cab door is closed.
2 - Press the unlock button
3 - Start the engine.

Only from now on the telehandler will start running.

10B - Instrument control panel



Logo: Click to enter the alarm page

Force limiter over limit alarm

Handle information:
1. Gray: function is off
2. Dark: Press the red button to activate the handle and operate the arm
3. Error: The handle is wrong and cannot be identified





Hydraulic oil temperature and oil level indication

Driver on location alarm



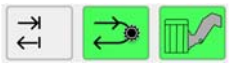
Cab door alarm

Alarm sound indication:
Tap the icon to turn the alarm sound off or on



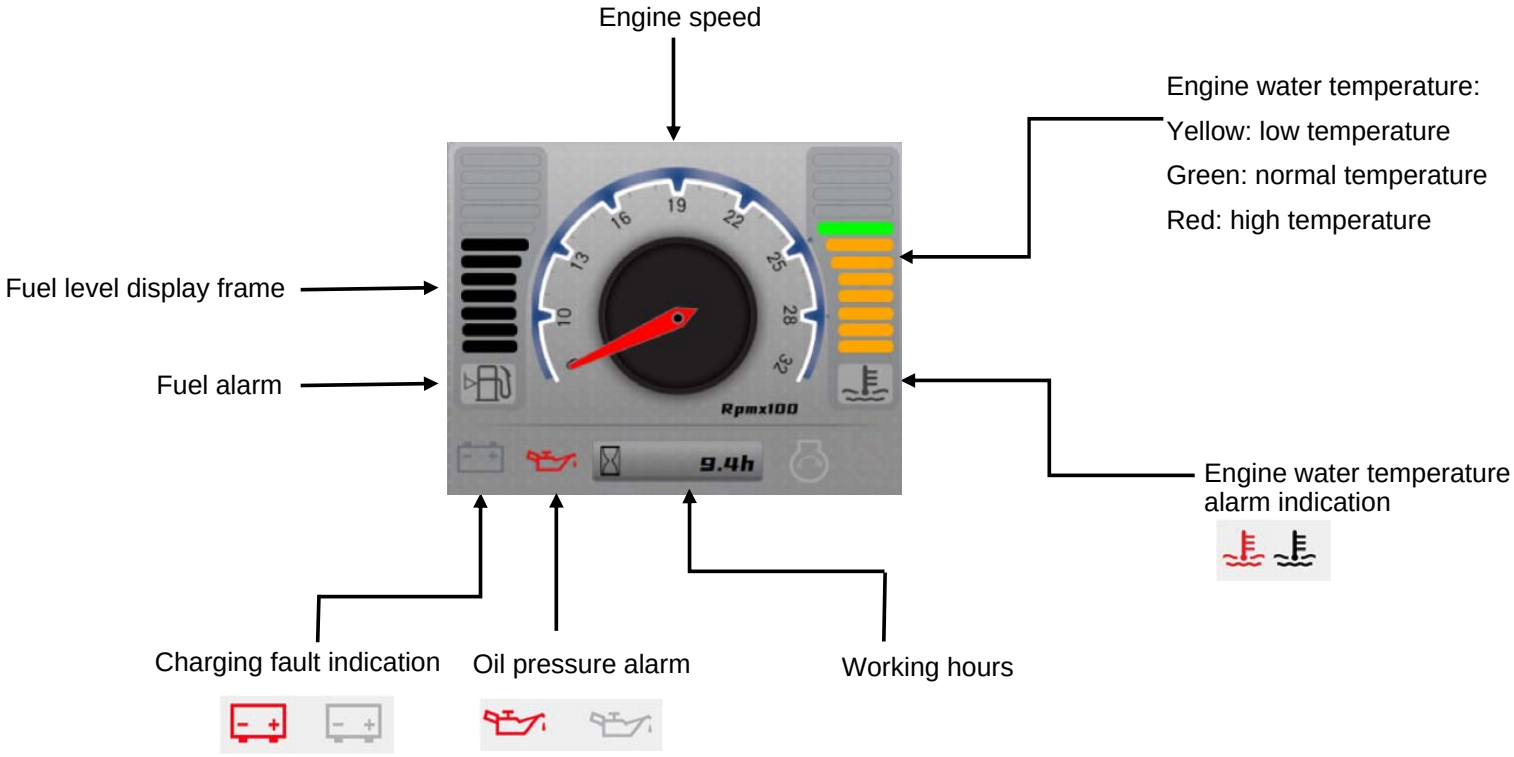


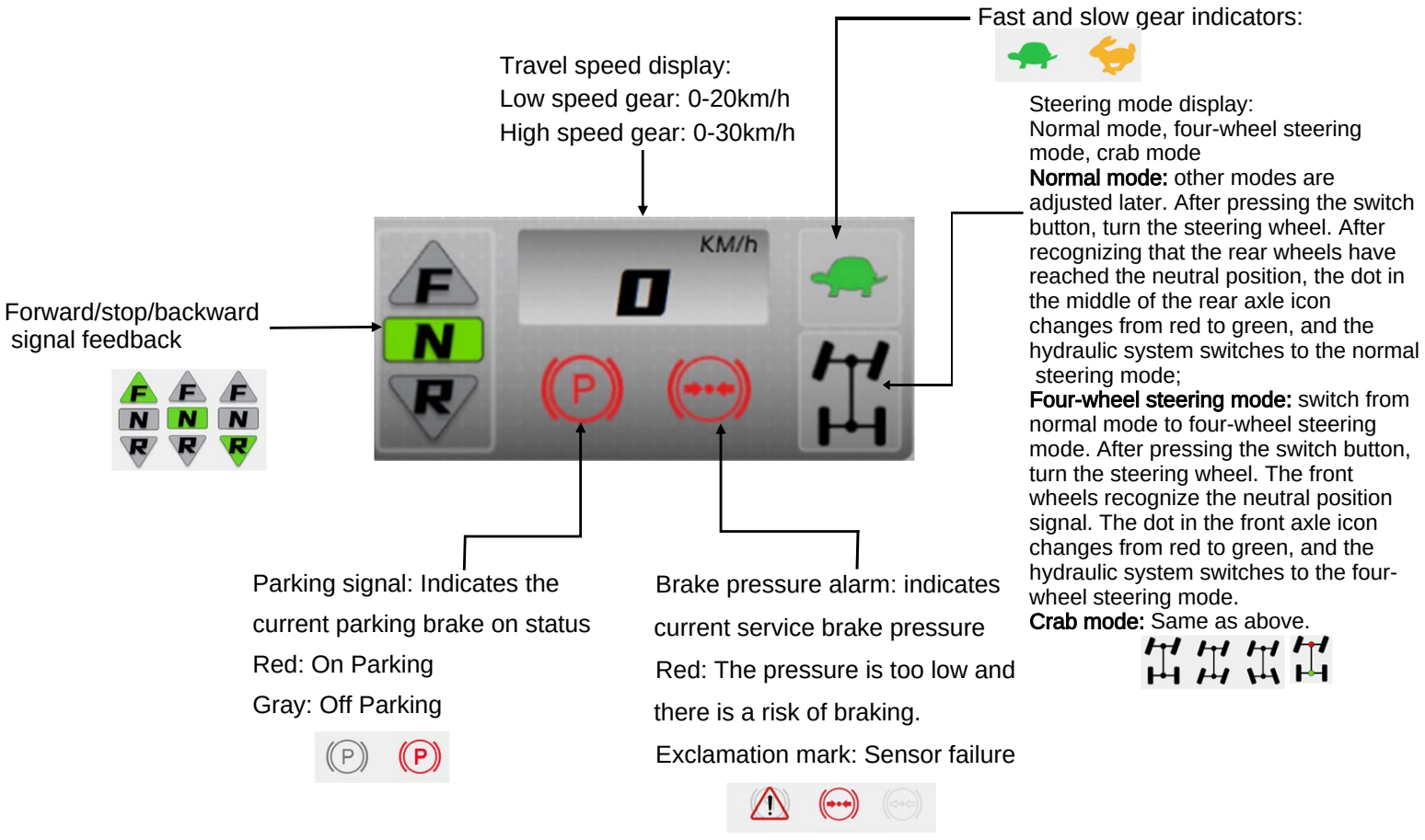
Attachment function switching:
1. Turn off attachment: the attachment oil circuit is closed and the oil is not used when the attachment switch is operated.
2. Turn on attachment: activate the data oil circuit, and the oil output is based on the set amount when the switch is operated.
3. Platform mode: turn off the flip function, and the boom lifting and retracting speed will be reduced.

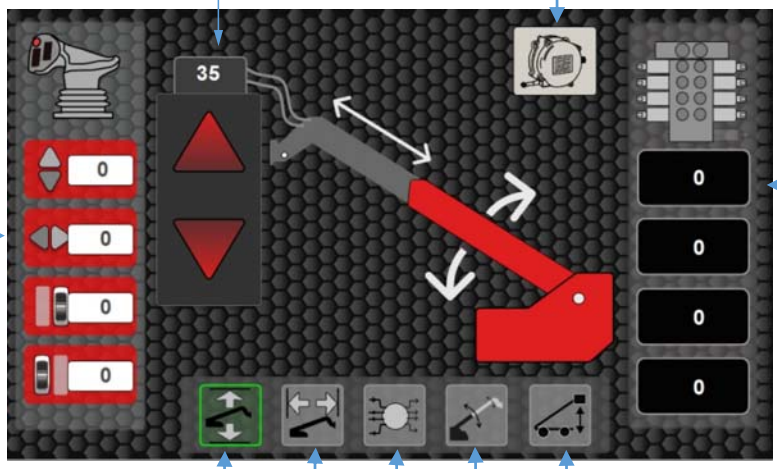


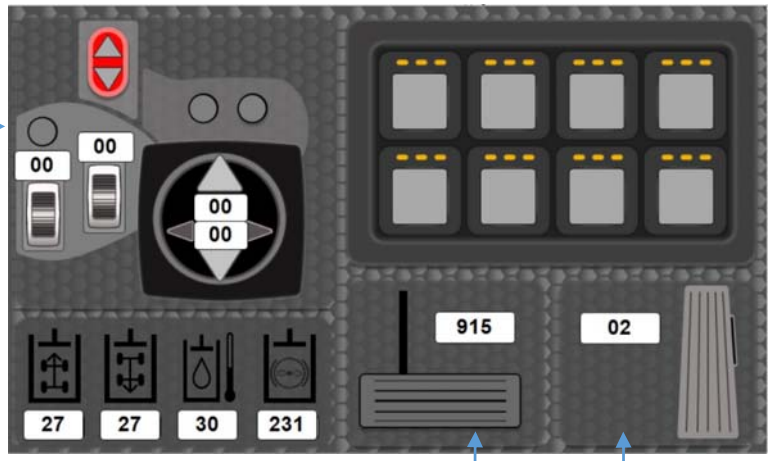
Torque display:
0%-120%

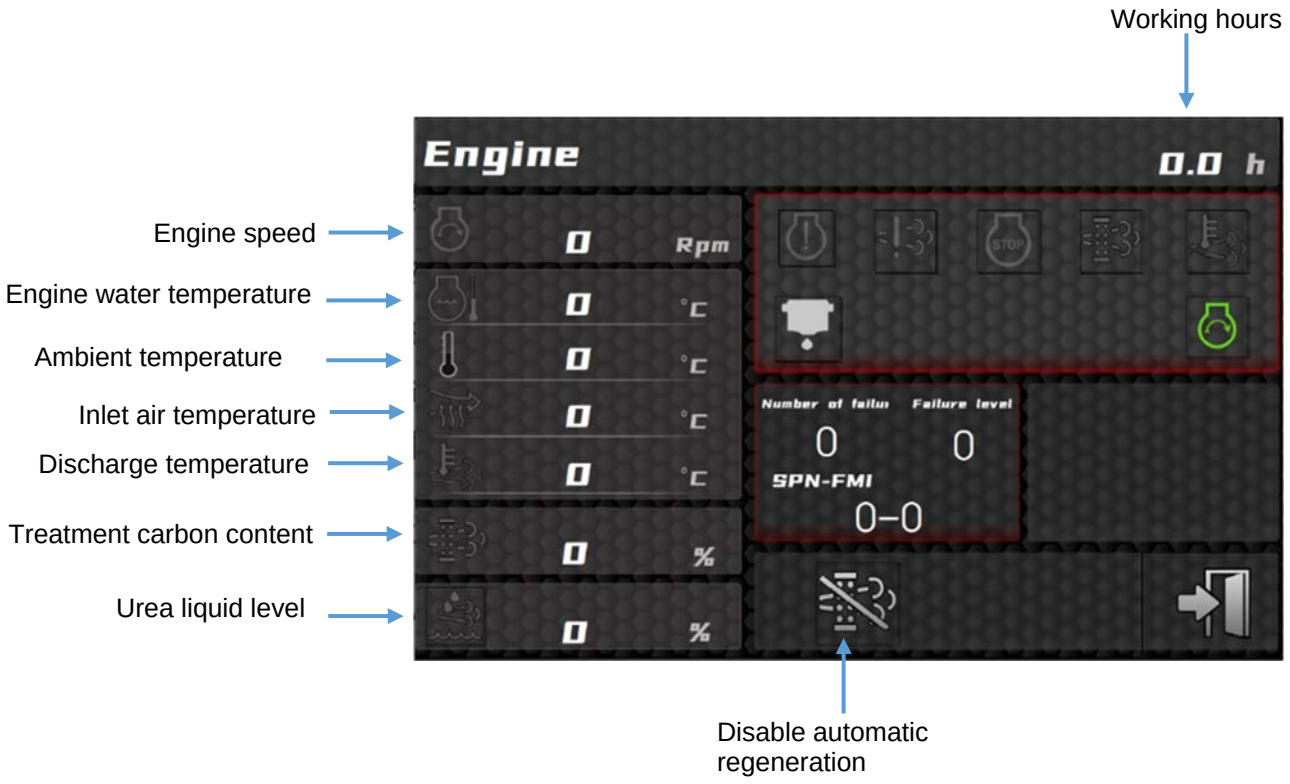
100% torque limits boom lifting and extension


Engine speed
Engine water temperature:
Yellow: low temperature
Green: normal temperature
Red: high temperature
Fuel level display frame
Fuel alarm
Rpmx100
9.4h
Engine water temperature alarm indication
Charging fault indication
Oil pressure alarm
Working hours

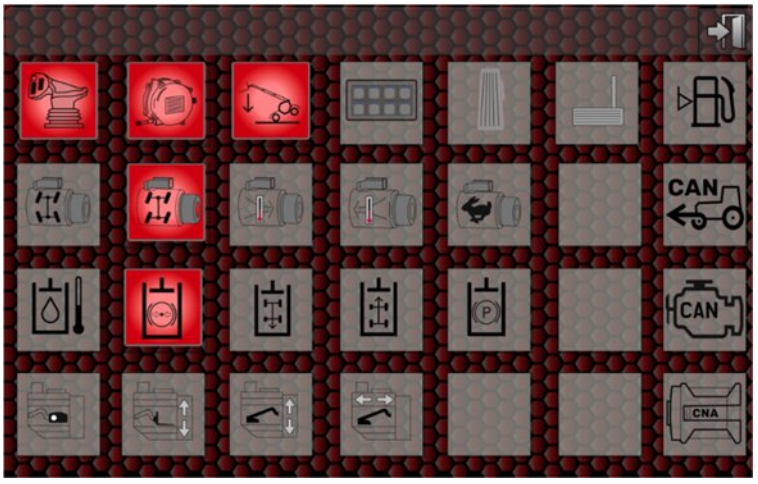

Fast and slow gear indicators:
Travel speed display:
Low speed gear: 0-20km/h
High speed gear: 0-30km/h
Steering mode display:
Normal mode, four-wheel steering mode, crab mode
Normal mode: other modes are adjusted later. After pressing the switch button, turn the steering wheel. After recognizing that the rear wheels have reached the neutral position, the dot in the middle of the rear axle icon changes from red to green, and the hydraulic system switches to the normal steering mode;
Four-wheel steering mode: switch from normal mode to four-wheel steering mode. After pressing the switch button, turn the steering wheel. The front wheels recognize the neutral position signal. The dot in the front axle icon changes from red to green, and the hydraulic system switches to the four-wheel steering mode.
Crab mode: Same as above.
KM/h
Forward/stop/backward signal feedback
Parking signal: Indicates the current parking brake on status
Red: On Parking
Gray: Off Parking
Brake pressure alarm: indicates current service brake pressure
Red: The pressure is too low and there is a risk of braking.
Exclamation mark: Sensor failure


Attachment mode output adjustment
Angle sensor adjustment
35
0
0
0
0
0
0
0
0
Handle input signal monitoring:
Y-axis lifting signal opening amount
X-axis flipping signal opening amount
Roller 1 extension signal opening amount
Roller 2 attachment signal opening amount
PVG valve actual output signal
Boom lift limit switch
Boom extension limit switch
Flow switch
Boom vertical lifting and telescopic switch
Boom lift speed limit switch


JS1-H Handle Signal Test:
It can detect whether the current corresponding operation signal is normal or not.
00
00
00
00
915
02
27
27
30
231
Bus button panel signal detection:
It can detect whether the current corresponding operation signal is normal
Brake pedal signal detection
Drive pedal signal detection



报警页



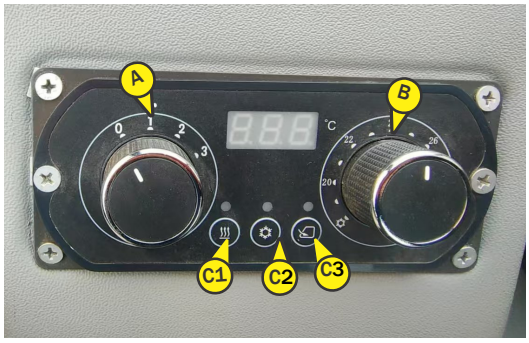
1. Handle loss alarm
2. Angle sensor loss alarm
3. Torque sensor loss alarm
4. Button panel signal loss alarm
5. Drive pedal signal alarm
6. Brake pedal signal alarm
7. Fuel sensor alarm
8. Four-wheel steering solenoid valve alarm
9. Concurrent steering solenoid valve alarm
10. Heat dissipation reversal solenoid valve alarm
11. Heat dissipation speed solenoid valve alarm
12. High-speed gear switching solenoid valve alarm
13. Empty
14. Travel controller communication alarm
15. Hydraulic oil temperature sensor alarm
16. Brake pressure sensor alarm
17. Travel reverse pressure sensor alarm
18. Travel forward pressure sensor alarm
19. Parking pressure sensor alarm
20. Empty
21. Engine communication alarm
22. Attachment valve communication alarm
23. Flip valve communication alarm
24. Boom lifting valve communication alarm
25. Boom telescopic valve communication alarm
26. Empty
27. Empty
28. MC050 controller communication alarm

11- Air conditioner and other controllers

The air conditioner only works if the telehandler has been started. The doors and windows must be closed when the air conditioning is in use.

In winter: To ensure the correct operation and overall efficiency of the air conditioning unit, start the compressor once a week, only for a short period of time, and lubricate the internal seals
In cold weather: Before starting the compressor, warm up the engine to allow the liquid coolant collected at the lowest end of the compressor circuit to become gas under the effect of the heat it releases, as the compressor is more easily damaged by liquid coolant.

If the air conditioner is not operating properly, contact your dealer for inspection.



A - Fan Controller
This 3-speed controller allows air to be ventilated through the vents
.
B - Temperature controller
Allows to adjust the temperature inside the cab.

B1 - Fan blowing at cold air.
B2 - Fan blowing at warm air. Intermediate position allows temperature adjustment.

C - Air conditioning control
This illuminated control allows the air conditioning unit to be switched on and off.



Heating mode
The controls must be adjusted as follows:

C1 - Press to control when C1 indicator light turns on.
B - At desired temperature.
A - At desired speed: 1,2 or 3.

Cooling mode
The controls must be adjusted as follows:

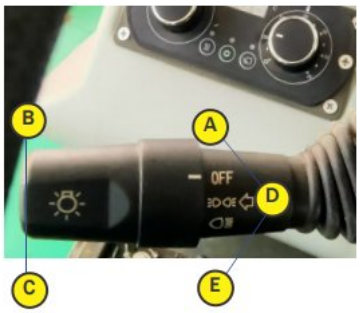
C2 - Press to control when C2 indicator light turns on.
B - At desired temperature.
A - At desired speed: 1,2 or 3.

Defogging mode
The controls must be adjusted as follows:

C3 - Press to control when C3 indicator light turns on.
B - At desired temperature.
A - At desired speed: 2 or 3.
For best results, turn off heating ventilation.

D - Radio function switch.

12-Light, indicator light switch



Switch controls vision.

A - All lights off, direction indicators not flashing.
B - Right-hand direction indicator flashing.
C - Left-hand direction indicator flashing.
D - Side lights on.
E - Low beam on

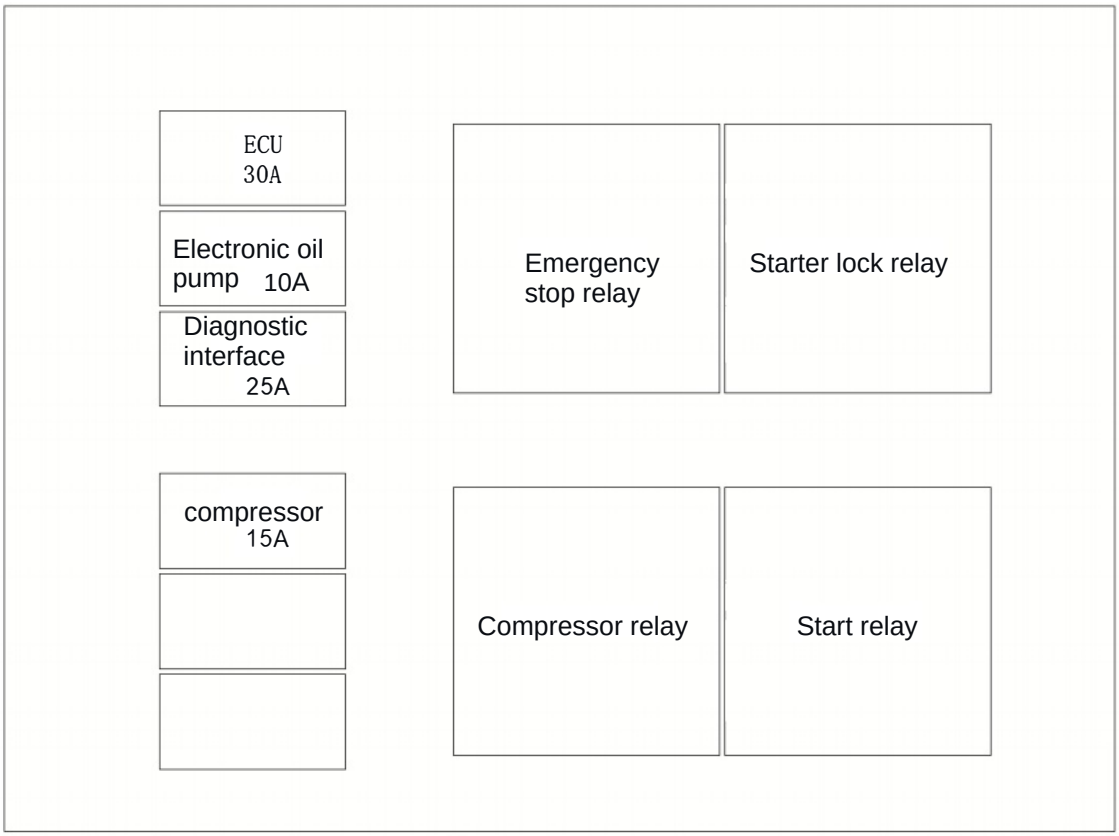
13-Power switch



- Quickly disconnect the battery when working on circuits or soldering, for example.
- To the right, the battery opens.
- To the left, the battery disconnects.

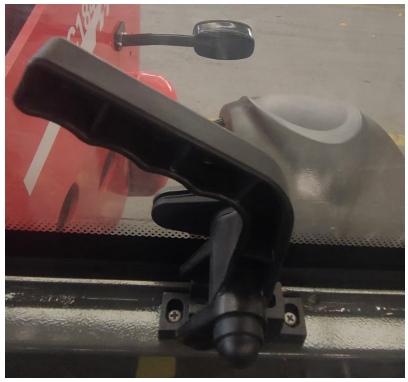
14-Body wiring harness fuses and relays

-Open the hood and remove the cover to access the fuses and relays. Replace the used fuse with a fuse of the same quality and capacity. Do not use repaired fuses.
-The label inside the panel clearly describes the use of the following parts



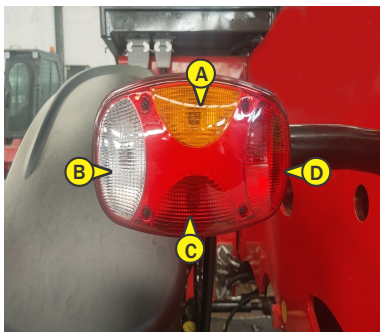
15-Rear window switch handle

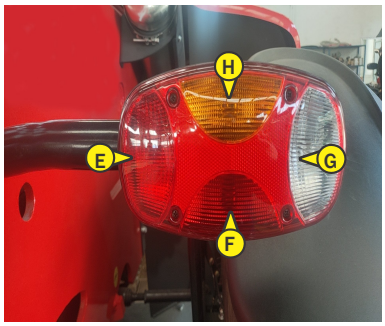
Emergency exit
If you cannot open the door to leave the cab, you can use the rear window as an emergency exit.



16-Rear lights

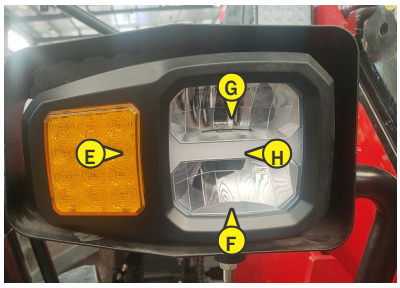
A-Left rear turn signal
B-Left rear marker light
C-Brake light
D-Reverse light
E-Reverse light
F-Brake light
G-Right rear marker light
H-Right rear turn signal

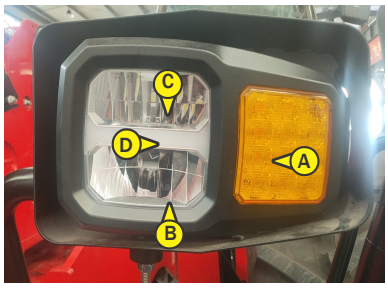




17-Front lights

A - Left front turn signal
B - Left front low beam
C - Left front high beam
D - Left front clearance light
E - Right front turn signal
F - Right front low beam
G - Right front high beam
H - Right front clearance light





18- Rotating light

The magnetic rotating light must be clearly visible on the cab.

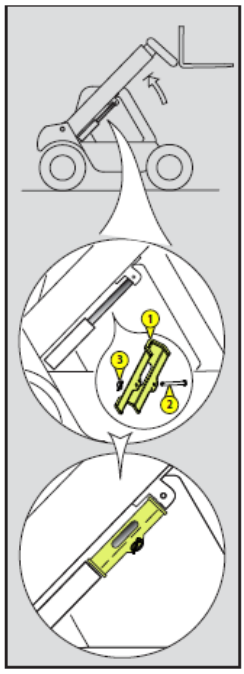


Shandong Vanse Group reserves the right to upgrade its products, which may be inconsistent with this manual after the upgrade. Vanse Group has the final right of interpretation of this manual.

Maintenance

General Description

– Make sure the area is well ventilated before starting the telehandler.
– Wear clothing suitable for telehandler maintenance and avoid wearing jewelry and loose clothing. Tie and protect your hair if necessary.
– Stop the engine and remove the ignition key when adjustments are required.
– Read the operator's manual carefully.
– Perform all repairs immediately, even if they are very minor.
– Repair all leaks immediately, even if they are very minor.
– Make sure that the handling of process materials and parts is carried out in a very safe and environmentally friendly manner.
– Be aware of burn and splash hazards (exhaust, radiator, engine, etc.).



Place safety wedge under the boom

The telehandler is equipped with a boom safety wedge, which must be installed on the piston rod of the boom lifting cylinder when working under the boom. Install the wedge

-Raise the boom completely
-Place the safety wedge 1 on the boom cylinder piston rod 2 and lock it with pin 1.
-Slowly lower the boom until the boom touches the safety wedge.

Remove the wedge

-Raise the boom completely
-Remove the pin and remove the piston rod
-Put the safety wedge back in place

maintain

– To keep the telehandler in good working condition, perform regular maintenance (see: 3 – Maintenance). Failure to perform regular maintenance may invalidate the contractual guarantee.

Maintenance Log
-Maintenance Work In accordance with the recommendations given in Section 3 - Maintenance and Other Inspections, any maintenance or repair work or modifications to the telehandler or its attachments should be recorded in the maintenance log. The entry for each job should include the latest details of the work, the name of the individual or company who carried out the maintenance. The type of work and its frequency. The amount of any telehandler parts replaced should be noted.

Lubricant and fuel levels

– Use recommended lubricants (do not use contaminated lubricants).
– Do not fill the fuel tank with the ignition key on and the engine running.
– Only fill the fuel tank in the specified area.
– Do not fill the fuel tank to the maximum level.– Do not smoke or place the telehandler near an open flame when the fuel tank is open or being filled.

Hydraulic

– It is prohibited to carry out any work on the cargo handling hydraulic circuit, except for the operations mentioned in "3: Maintenance". – It is prohibited to loosen connections, hoses or any hydraulic components while the circuit is pressurized.

Counterbalance valve: To perform an inspection, refer to: 3 – Maintenance: D – Every 500 hours of operation. Changing the settings or removing the counterbalance valve or safety valve that may be installed on the telehandler cylinder is a very dangerous operation. Only authorized technicians are allowed to perform the above operations (please consult your dealer).

The hydraulic batteries that may be installed on your telehandler are pressurized devices. Removing these batteries and their fittings is a very dangerous operation and should only be performed by an approved technician (consult your dealer).

electric

– When starting the engine, do not short-circuit the starter relay. If the forward/reverse lever is not in neutral and the parking brake is not applied, the telehandler may start to move suddenly.– Do not drop metal objects on the battery.
– Disconnect the battery before working on the circuit.

welding

– Before performing any welding operation on the telehandler, disconnect the battery.
– When performing welding work on the telehandler, connect the negative cable directly from the equipment to the part to be welded to avoid high voltage current passing through the alternator. – Do not perform welding or non-heat-
releasing operations on an assembled
tire. Heat will increase pressure and cause the tire to explode.
– If the telehandler is equipped with an electronic control unit, disconnect the unit before starting welding to avoid irreparable damage to the electronic components.

Washing down telehandler

– Before carrying out any adjustments, clean the telehandler, or at least the area involved.
– Remember to close and lock all access to the telehandler (doors, windows, hoods, etc.).
– When flushing, avoid unions, electrical components and connections.
– If necessary, prevent the penetration of water, steam or cleaning agents and avoid contact with wearing parts, especially electrical components and connections and the injection pump. – Clean the telehandler to remove any traces of fuel, oil or
grease.
For any adjustments other than scheduled maintenance, please consult your dealer.

If the telehandler is to be out of service for a long period of time

illustrate

If the telehandler is to be out of service for a longer period, the following recommendations should be taken to protect the telehandler from damage.
For these operations, we recommend the use of a Vanguard product. Instructions for use of the product are provided in the packaging.

If the telehandler is to be out of service for an extended period, the following procedure must be followed and subsequent start-up must be performed by your dealer.

Prepare telehandler

– Clean the telehandler thoroughly.
– Check and repair any fuel, oil or air leaks.
– Replace or repair any broken or damaged parts.
– Rinse the telehandler's painted surfaces with clear, cold water and wipe them.
– Touch up painted parts if necessary.
– Switch off the telehandler (see: Operating Instructions for Empty and Loaded). – Make sure the telescopic boom cylinder rods are in the retracted position.
– Release the pressure in the hydraulic circuit.

Protect the engine

– Fill the fuel tank with oil (Ref: 3 – Maintenance: A – Every day or every 10 hours of operation).
– Empty and replace the coolant (Ref: 3 – Maintenance: F – Every 2000 hours of operation).
– Let the engine run at idle speed for a few minutes and then switch it off.
– Change the engine oil and oil filter (Ref: 3 – Maintenance: D – Every 500 hours of operation).
– Fill the engine oil with protective product.
– Run the engine for a short time to ensure internal oil and coolant circulation.
– After full charging, disconnect the battery and store it in a warm and safe place.
– Remove the injector, keep the piston in the lower neutral position, and spray the protective product on each cylinder for two minutes.
– Slowly turn the crankshaft one revolution and reinstall the injector (refer to the engine repair manual).
– Remove the intake hose from the manifold or turbocharger and spray the protective product on the manifold and turbocharger.
– Cover the intake manifold or turbocharger with waterproof tape.
– Remove the exhaust pipe and spray the protective product on the exhaust manifold or turbocharger.
– Reinstall the exhaust pipe and seal the outlet with waterproof tape.
Note: The spraying time is indicated on the product packaging. For turbo engines, the spraying time must be increased by 50%.
– Open the filler plug, spray the protective product around the rocker shaft and reinstall the filler plug.
– Cover the fuel tank with waterproof tape.
– Remove the drive belt and store it in a safe place.
– Disconnect the engine cut-off solenoid valve on the injection pump and carefully space the connector.

Protecting telehandlers

– Place the telehandler on the axle seats so that the tires do not touch the ground and release the handbrake.
– Protect the non-retractable cylinder rods from corrosion.– Wrap the tires.
Note: If the telehandler needs to be parked outdoors, cover it with a tarpaulin.

Putting the telehandler back into service

– Remove the waterproof tape from all holes.
– Reinstall the air inlet.
– Reinstall and connect the battery.
– Remove the guard from the cylinder rod.
– Perform routine maintenance (see: 3 – Maintenance: A – Every day or every 10 hours of operation).
– Apply the handbrake and remove the axle frame.
– Empty and replace the fuel and its filter (see: 3 – Maintenance: D – Every 500 hours of operation). – Reinstall and adjust the tension in the drive belt (see: 3 – Maintenance: C – Every 250 hours of operation).
– To allow the oil pressure to rise, crank the engine using the starter.
– Reconnect the engine cut-off solenoid.
– Lubricate the telehandler thoroughly (see: 3 – Maintenance: Maintenance schedule).

Before starting the telehandler, make sure the area is well ventilated.

– Start the telehandler, observing the safety instructions and regulations (see: Operating instructions when empty or loaded).
– Perform all hydraulic movements of the telescopic boom, concentrating on the end of the stroke of each cylinder.

contents

Vanse Genuine Accessories and Equipment 3-4

Startup Checklist 3-5

Filters and Belts 3-6

Lubricants and Fuels 3-7

Maintenance Plan 3-9

A - Every day or every 10 working hours 3-11

B - Every 50 working hours 3-13

C - Every 250 working hours 3-16

D - Every 500 working hours 3-17

E - Every 1000 working hours 3-20

F - Every 2000 working hours 3-23

G - Temporary maintenance 3-24

Vanse Genuine Accessories and Equipment

Our company's telehandlers must be repaired with original Vanse parts.

If you use non-original Vanse accessories,

Need to bear:

- Legal liability for accidents
- Technically, it may cause operational failure or shorten the life of the telehandler.

If counterfeit parts or components not approved by the manufacturer are used, you will no longer be covered by the contractual guarantee.

If genuine Vanse parts are used during maintenance operations

You can enjoy professional support

Vanse offers its users through its network

- Skills and competence
- Guarantee of efficient work
- Original replacement parts.
- Assistance in preventive maintenance.
- Effective assistance in diagnostics.
- Improvements based on experience feedback.
- Training of operators.
- Only the Vanse website offers detailed knowledge of telehandler design and therefore the best technical capabilities for maintenance.

Original replacement parts are distributed exclusively by Vanse and its network.
A list of the dealer network can be found on the Vanse website at www.vansemac.com.

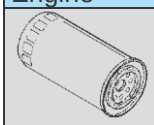
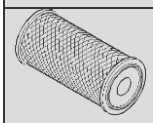
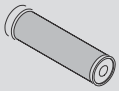
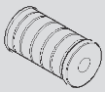
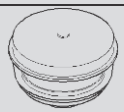
Startup Checklist

100	Engine	
01	Air filter	
02	Tank	
03	Fuel line-filter	
04	Injection or vaporization system	
05	Radiator and cooling system	
06	Belt	
07	Hoses	
101	Gearbox	
01	Reversing system	
02	Gear lever	
102	Axle/transmission gearbox	
01	Operation and sealing	
02	Parking settings	
103	Hydraulic/hydrostatic circuit	
01	Cooler	
02	Pumps and couplings	
03	Connection fastening	
04	Lifting cylinder	
05	Upper leveling cylinder	
06	Telescopic oil cylinder	
07	Compensation cylinder	
08	Control valve	
09	Balancing valve	
10		
11		
104	Braking system	
01	Service brake and parking brake operation	
105	Lubricants and greases	
106	Telescopic arm assembly	
01	Beam and telescopic arm	
02	Wear-resistant blocks	
03	Hinge	
04	Fork connection frame	
05	Fork	
107	MAST assembly	
01	Fixed and mobile columns	
02	Fork connection frame	
03	Scroll wheel	
04	Fork	

108	Attachment	
01	Pipe fittings on the machine	
02	Hydraulic coupler	
109	Cockpit/Protector/Circuit	
01	Seats	
02	Dashboard	
03	Audible and visual alarm/security systems	
04	Air conditioning system	
05	Windshield wipers/windshield washers	
06	Road horn	
07	Reversing horn	
08	Street Lights	
09	Additional lights	
10	Rotating light	
11	Battery	
110	Wheel	
01	Rim	
02	Tire/pressure	
111	Screws	
112	Frame and body	
113	Paint	
114	General operation	
115	Operation manual	
116	Customer instructions	

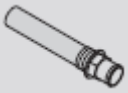
Filters and Belts

Engine

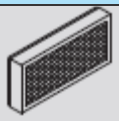
	Engine oil filter Replacement: 500 H		Generator belt
	Dry air filter cartridge Cleaning: 50 H* Replacement: 500 H*		Generator belt
	Safety dry air filter cartridge Replacement: 1000 H*		Compressor belt
	Fuel filter cartridge Replacement: 500 H		Air pre-filter
	Fuel pre-filter cartridge Replacement: 500 H		Fully automatic vacuum cleaning pre-filter (optional)
	Fuel tank breather valve Replacement: 1000 H		

*: This cycle is for reference only for cleaning and replacement (see: Maintenance: Maintenance plan)

Hydraulic

	Hydraulic return filter cartridge Replacement: 500 H		Hydraulic oil tank suction filter Cleaning: 1000 H
	Hydraulic oil tank vent valve Replacement: 1000 H		

Air Filter

	External ventilation filter Cleaning: 50 h Replacement: 250 h		Internal ventilation filter Cleaning: 50 h Replacement: 250 h

Lubricants and Fuels

Use recommended lubricants and fuels:
- When filling the oil tank, do not mix different oils together.
- When changing the oil, please use Vanse oil.

Fuel Diagnostic Analysis
If the dealer has prepared a service or maintenance contract, a diagnostic analysis of the engine, transmission and axle fluids may be required depending on usage.
(*) Fuel characteristics
For best engine performance, use high quality fuel.

- N590 Diesel Type-Auto/C0/C1/C2/C3/C4
- BS2869 A2 Level
- ASTM D975-91 Level 2-2DA, US DF1, US DF2, US DFA
- JIS K2204 (1992) Grade 1, 2, 3 and Special Grade 3.

Engine			
Equipment that requires lubrication	Capacity	Recommendation	Package
Engine	**10.9 L**	**API CH4**	**5 l** **20 l** **55 l** **209 l** **1000 l**
Cooling circuit	**20 L**	**Coolant (protection -20°)**	**2 l** **5 l** **20 l** **210 l**
		Coolant (protection -35°)	**20 l** **210 l** **1000 l**
Fuel tank	**100 L**	**Diesel (*)**	

Gearbox			
Equipment that requires lubrication	Capacity	Recommendation	Package
Gearbox	**4** L	GL-4（SAE75W/80)	**4 l**
Transmission universal joint		Vanse Grease blue multipurpose	**400 g** **1** kg **5** kg

Telescopic arm		
Equipment that requires lubrication	Recommendation	Package
Telescopic arm pad	Blue multipurpose	**400 g** **1** kg
Lubrication of telescopic arms	Blue multipurpose	**400 g** **1**kg **5** kg

Hydraulic			
Equipment that requires lubrication	Capacity	Recommendation	Package
Hydraulic oil tank	**150** L		**5 l** **20 l** **55 l** **150 l**

CAB		
Equipment that requires lubrication	Recommendation	Package
Windshield washer tank	Windshield washer fluid	1 l 5 l

Front axle			
Equipment that requires lubrication	Capacity	Recommendation	Package
Front axle differential	11.5 L	GL-4（SAE75W/80)	5 l 20 l 209 l 1000 l
Front wheel reducer pivot point F ront axle vibration		Vanse Grease black multi-purpose oil	400 g 1 kg

Rear axle			
Equipment that requires lubrication	Capacity	Recommendation	Package
Rear axle differential	8L	GL-4（SAE75W/80)	5 l 20 l 209 l 1000 l
Rear wheel reducer pivot point Rear axle vibration		Vanse Grease black multi-purpose oil	400 g 1 kg

Attachment		
Equipment that requires lubrication	Recommendation	Package
Platform Fork rack	Blue multipurpose	400 g 1 kg 5 kg

Maintenance plan

(1): Mandatory maintenance after 500 hours of operation or 6 months

Maintenance must be performed after the first 500 hours of operation or 6 months after starting up the telehandler (Whichever comes first).

A = Adjust, C = Check, G = Grease, J = Fill
N = Clean, P = Drain, R = Replace, V = Vent

	Page	(1)	Every day or every 10 hours of work	Every 50 hours of work	Every 250 working hours	Every 500 working hours	Every 1000 working hours	Every 2000 working hours	Every 4000 working hours	Temporary maintenance
Engine										
Engine oil level	3-11	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Coolant level	3-11	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Fuel level	3-11	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Fuel pre-filter	3-11	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Swirl pre-filter	3-12	N	N	<<<	<<<	<<<	<<<	<<<	<<<	
Dry air filter cartridge	3-13/17	R		N	<<<	R	<<<	<<<	<<<	
Radiator core	3-13	N		N	<<<	<<<	<<<	<<<	<<<	
Condenser core	3-13	C/N		C/N	<<<	<<<	<<<	<<<	<<<	
Alternator belt tension	3-16	C/A			C/A	<<<	<<<	<<<	<<<	
Compressor belt tension	3-16	C/A			C/A	<<<	<<<	<<<	<<<	
Generator belt tension	3-16	C/A			C/A	<<<	<<<	<<<	<<<	
Engine oil	3-17	V				V	<<<	<<<	<<<	
Engine oil filter	3-17	R				R	<<<	<<<	<<<	
Fuel pre-filter cartridge	3-18	R				R	<<<	<<<	<<<	
Fuel filter cartridge	3-18	R				R	<<<	<<<	<<<	
Fuel tank	3-20						N	<<<	<<<	
Safety dry filter cartridge	3-17						R	<<<	<<<	
Engine silent block							C**	<<<	<<<	
Engine rate							C**	<<<	<<<	
Valve clearance		C**					C**	<<<	<<<	
Coolant	3-23							V	<<<	
Radiator								C**	<<<	
Water pump and thermostat								C**	<<<	
Generator and starter motor								C**	<<<	
Turbo compressor								C**	<<<	
Fuel circuit	3-24									P
Gearbox										
Gearbox oil level	3-12	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Gearbox universal joint	3-15	G		G	<<<	<<<	<<<	<<<	G/C*	
Gearbox oil	3-20	V					V	<<<	<<<	
Gearbox oil filter	3-21	R					R	<<<	<<<	
Gearbox silent block							C**	<<<	<<<	
Gearbox controller							C**	<<<	<<<	
Gearbox pressure								C**	<<<	
Converter pressure								C**	<<<	
Brake pad and disc wear									C**	
Tires										
Tire pressure	3-12	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Wheel nut torque	3-12	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Wheel and tire condition							C**	<<<	<<<	
Wheels	3-24									R
Telescopic arm										
Telescopic arm pads	3-12		G*	<<<	<<<	<<<	<<<	<<<	<<<	
Telescopic arm		G		G	<<<	<<<	<<<	<<<	<<<	
Boom condition								C**	<<<	
Bearing and joint ring								C**	<<<	
Hydraulic										
Hydraulic oil level	3-14	C		C	<<<	<<<	<<<	<<<	<<<	
Hydraulic return filter cartridge	3-19	R				R	<<<	<<<	<<<	
Hydraulic oil	3-21						V	<<<	<<<	
Hydraulic tank breather valve	3-21						R	<<<	<<<	
Hydraulic tank suction filter	3-21						N	<<<	<<<	
Hydraulic pump filter							N**	<<<	<<<	
Hose and flexible pipe condition							C**	<<<	<<<	
Cylinder condition (leakage, shaft)							C**	<<<	<<<	
Hydraulic circuit pressure								C**	<<<	
Hydraulic circuit output								C**	<<<	
Hydraulic tank								N**	<<<	

A = Adjust, C = Check, G = Grease, J = Fill
N = Clean, P = Drain, R = Replace, V = Vent

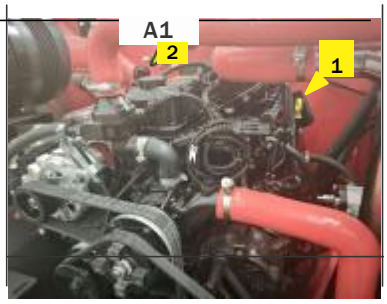
	page number	(1)	Every day or every 10 hours of work	Every 50 hours of work	Every 50 hours of work	Every 500 working hours	Every 1000 working hours	Every 2000 working hours	Every 4000 working hours	Temporary maintenance
Steering										
Steering								C**	<<<	
Steering swivel joint									C**	
Cab										
Windshield washer fluid level	3-14	C		C	<<<	<<<	<<<	<<<	<<<	
Cab ventilation filters	3-15	R		N	R	<<<	<<<	<<<	<<<	
seat belt	3-22						C	<<<	<<<	
Rearview mirror conditions							C**	<<<	<<<	
structure							C**	<<<	<<<	
Air conditioning (fluorine deficiency failure)	3-26							N/C	<<<	J
electric										
Longitudinal stability alarm device							C**	<<<	<<<	
Longitudinal stability limiter and warning device	3-14	C	C	<<<	<<<	<<<	<<<	<<<	<<<	
Harness and Cable Condition							C**	<<<	<<<	
Lights and Signals							C**	<<<	<<<	
Warning lights							C**	<<<	<<<	
Front lights	3-25									A
Battery failure	3-25									R
Front axle										
Front axle reducer fulcrum		G		G	<<<	<<<	<<<	<<<	G/C**	
Front axle swing	3-15	G		G	<<<	<<<	<<<	G/C**		
Front axle differential oil level	3-18	C			C	<<<	<<<	<<<	<<<	
Front wheel reducer oil level	3-18	C			C	<<<	<<<	<<<	<<<	
Front axle differential oil	3-20	V				V	<<<	<<<	<<<	
Front wheel reducer oil	3-22	V					V	<<<	<<<	
Front brake disc wear									C**	
Front wheel reducer universal joint									C**	
Front wheel reducer clearance									C**	
Rear axle										
Rear axle reducer node		G		G	<<<	<<<	<<<	<<<	G/C**	
Rear axle swing	3-15	G		G	<<<	<<<	<<<	G/C**		
Rear axle differential oil level	3-18	C			C	<<<	<<<	<<<	<<<	
Rear wheel reducer oil level	3-18	C			C	<<<	<<<	<<<	<<<	
Rear axle differential oil	3-20	V				V	<<<	<<<	<<<	
Rear wheel reducer oil	3-22	V					V	<<<	<<<	
Rear brake disc wear									C**	
Rear wheel reducer universal joint									C**	
Rear wheel reducer clearance									C**	
Chassis										
Tilt Corrector		G		G	<<<	<<<	<<<	<<<	<<<	
structure							C**	<<<	<<<	
Shafts and joint rings								C**	<<<	
Attachments										
platform		G		G	<<<	<<<	<<<	<<<	<<<	
Single-side mobile fork carriage		G		G	<<<	<<<	<<<	<<<	<<<	
Fork wear		C**				C**	<<<	<<<	<<<	
Attachment rack							C**	<<<	<<<	
Accessories							C**	<<<	<<<	
telehandler										
Towing telehandler	3-26									XXX
Lifting telehandler	3-26									XXX
telehandlertransport on platfo rm	3-27									XXX

(*):During the first 50 hours, every 10 hours, then every 250 hours.

(**): Consult your dealer

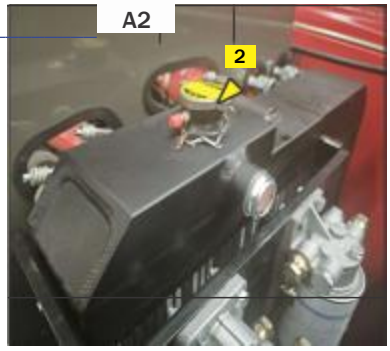
A -Every day or every 10 hours of work

A1 -Engine oil level



Place the telehandleron a level surface,
switch off the engine and leave it for 10 minutes to allow the oil to
drain back into the engine oil pan.
- Open the engine hood.
- Remove the dipstick 1 (Fig. A1).
- Clean the dipstick and check for the correct oil level.
- If necessary, add oil through the oil filling hole 2 (Fig. A1) (see: 3-Maintenance: Lubricants and fuel).
- Visually check that there are no oil leaks or seepage in the engine.

A2 - Coolant level



Put the telehandleron level ground, stop the engine and wait for it to cool down.
- Open the hood.
- The correct fluid level should be at level mirror position 1 (Fig. A2).
- If necessary, add coolant (see: 3-Maintenance: Lubricants and fuel) Add coolant through filler hole 2 (Fig. A2).
- Visually check that there are no leaks in the radiator and pipes.

To avoid any risk of splashing or burns, wait for the engine to cool down before removing the cooling circuit fill plug. If the coolant is very hot, only add hot coolant (80 ° C). In an emergency, water can be used as a coolant and then the cooling circuit fluid can be replaced as soon as possible (ref: 3 - Maintenance: F1 - Coolant).

A3 -Fuel level



To minimize condensation caused by weather conditions, keep the fuel tank full.

- Check the level of the fuel gauge on the HMI.

- If necessary, add diesel fuel (see: 3-Maintenance: Lubricants and fuel).

- Open the cover 1 by unlocking it (Fig. A3).

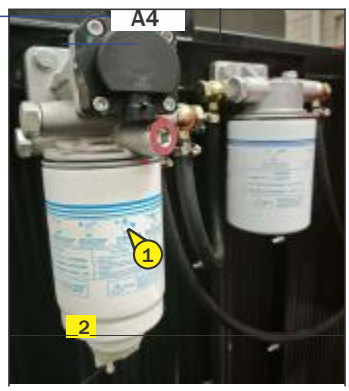
- Add clean diesel fuel to the tank and filter it through the filler hole (Fig. A3).

- Close the cover.

- Visually check that there are no leaks in the fuel tank and pipes.

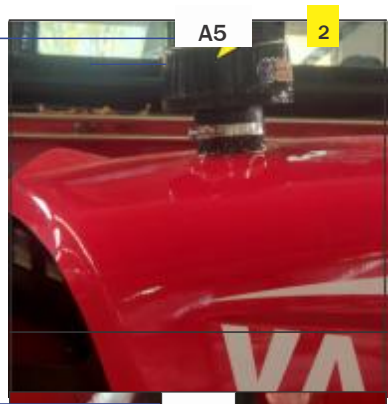
Do not smoke or approach open flames when filling the fuel tank or when the fuel tank is open.Do not fill the fuel tank with the engine running.

A4 -Fuel pre-filter



- Open the engine hood.
- Check the water in the pre-filter 1 (Fig. A4), place a container under the drain valve 2 (Fig. A4), loosen it after two to three turns.
- Let the diesel flow out and empty the impurities and water inside.
- When the diesel has flowed out, tighten the drain valve.

A5 -Cyclone pre-filter



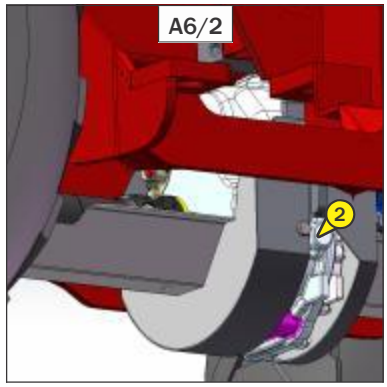
When replacing the filter element: 1
- Loosen the clamp 1 (Fig. A5), remove the cover 2 (Fig. A5) and empty the tank.
- Clean the pre-filter with a clean, dry cloth and reassemble the unit.

When cleaning, be careful not to let foreign matter fall into the dry air filter.

A6 -Transmission oil level



Park the telehandleron level ground with the telescopic boom raised and the engine cool and st opped.Make adjustments within five
minutes of the ignition control being stopped.
- Raise the working boom and remove the protective cover 1 (Fig. A6/1).
- Unscrew the oil filler plug 2 (Fig. A6/2) and observe the oil level.
- If necessary, add oil via the oil filler plug 2 (see: 3-Maintenance: E4-Transmission oil).
- Retighten the oil filler plug 2 and ensure tightness and airtightness.
- Visually check whether there is no oil leakage or seepage in the transmission.

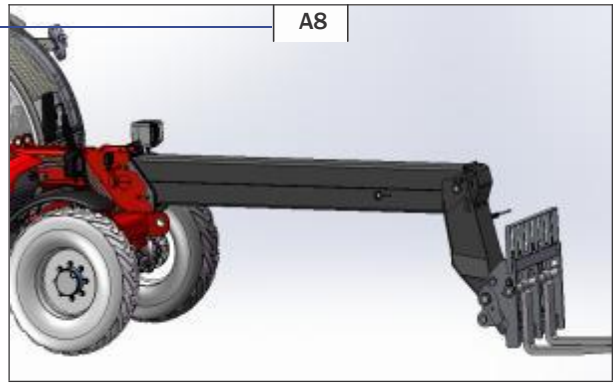


A7 -Tire pressure and wheel nut torque

- Check the condition of the tires, looking for cuts, ridges, wear, etc.
- Check the torque load of the wheel nuts. Failure to comply with this instruction manual can lead to damage and cracking of the wheel bolts and wheel twisting.
Wheel nut tightening torques:
• Front tire: 630 Nm 5 %
• Rear tire: 630 Nm 5 %
- Check and adjust tire pressure if necessary.

Before inflating, check that the air hole is aligned with the tire valve accurately. When inflating, all personnel should keep a certain distance from each other. Observe the given tire pressure recommendations.

A8 -Telescopic arm pad



Perform this operation every 10 hours for the first 50 hours and every 250 hours thereafter.
- Fully extend the telescopic arm.
- Apply a layer of grease to the telescopic arm on all four sides using a brush (see: 3-Maintenance: Lubricants and Fuels) (Fig. A8).
- Extend and retract the arm several times to spread the grease evenly.
- Remove any excess grease.

If the telehandleris used in an abrasive enviro nment (dust, sand, coal, ...). In this case, please consult your dealer.

B - Every 50 hours of work

B1 -Dry Air Filter Cartridges

If the telehandleris used in a dusty atmosphere, provide a pre-filter cartridge (see: 3-Maintenance: Filter cartridges and belts). At the same time, the
inspection and cleaning intervals must be shortened.

If the clogging indicator is on, this operation must be performed as soon as possible (maximum 1 hour). The filter cartridge must not be cleaned more than seven times, otherwise the filter cartridge must be replaced.

- To remove and refit the filter cartridge, see: 3 - Maintenance: D3 - Dry air filter cartridge.
- Clean the cartridge with a compressed air stream from top to bottom and from inside to outside at a distance of at least 30 mm from the cartridge wall (maximum pressure 3 bar).
- Cleaning is complete when there is no more dust on the cartridge.

To avoid tears or holes in the filter cartridge, leave a safe distance of 30 mm between the jet air flow and the filter cartridge. Do not blow air on the filter cartridge near the air filter box. Do not clean the filter cartridge by tapping on hard surfaces. Eye protection is mandatory during this operation.

- Clean the filter cartridge sealing surface with a damp, clean, lint-free cloth and lubricate with silicone lubricant.
- Visually inspect the exterior condition of the air filter and its mount. Also inspect the condition of the hose and its mount.

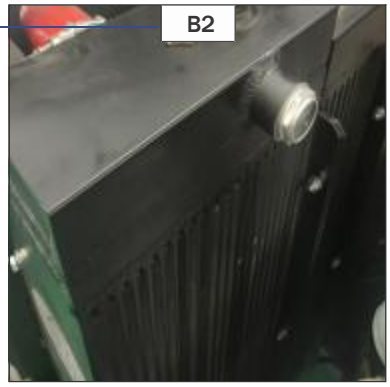
Do not flush the dry air filter cartridge with liquid. Do not clean the safety filter cartridge inside the filter cartridge in any way. If the safety filter is dirty or damaged, replace it with a new one.

B2 -Radiator core

Cleaning

In polluted environments, the radiator core should be cleaned daily. Do not use water jets or high pressure steam as they will damage the radiator

- Open the bonnet.
- If necessary, clean the intake grille on the bonnet.
- Clean the radiator with a soft cloth, removing as much dirt as possible.
- Clean the radiator with a stream of compressed air in the same direction as the cooling air flow (Fig. B2). Note: To enhance cleaning, work with the fan running.

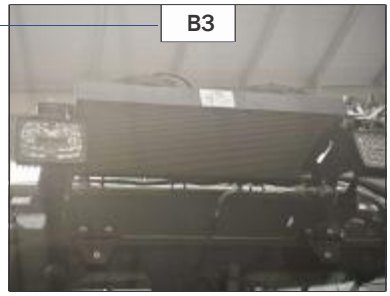

B2

B3 -Condenser

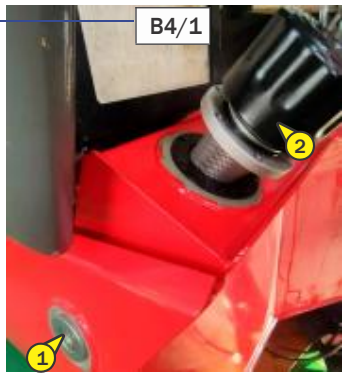
Inspection-cleaning

In polluted environments, the condenser should be cleaned daily. Do not use water jets or high pressure steam as this will damage the radiator

- Visually check that the condenser is clean (Fig. B3) and clean if necessary. - Clean the condenser using a compressed air stream in the same direction as the cooling air flow.
Note: To enhance cleaning, operate with the fan running.


B3

B4 -Hydraulic oil level



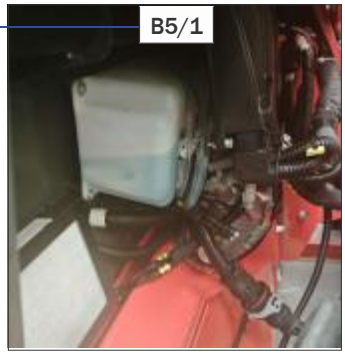
Park the telehandleron a level surface, switch off the engine, retract the telescopic boom and lower it as far as possible.
- Check the oil dipstick 1 (Fig. B4/1). The correct oil level should be at the red dot.
- Add oil if necessary (see: 3-Maintenance: Lubrication and fuel).
- Remove the protective cap 2 (Fig. B4/1).
- Add oil through the oil filling hole 3 (Fig. B4/2)

Using a clean funnel, clean the underside of the drum before filling.

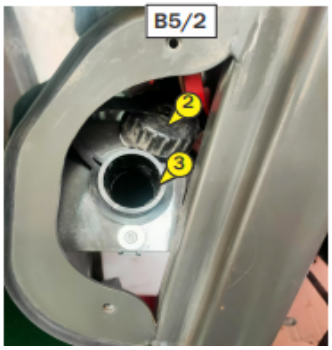


- Replace the cap
- Visually check that there are no leaks in the fuel tank and pipes.
- Replace the protective cap.

B5 -Windshield washer fluid level



- Visually check the level of the water tank 1 (Fig. B5/1).
- If necessary, add windscreen washer fluid (see: 3-Maintenance: Lubrication and fuel)
- Remove the cap 2 (Fig. B5/2).
- Add windscreen washer fluid via the filler hole 3 (Fig. B5/2). .
- Close the cap



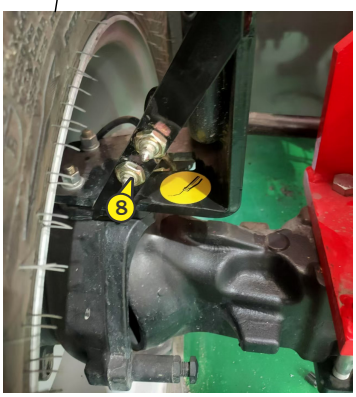
B6-General Lubrication

If the working hours per week are less than 50 hours, it will be executed on a weekly basis.

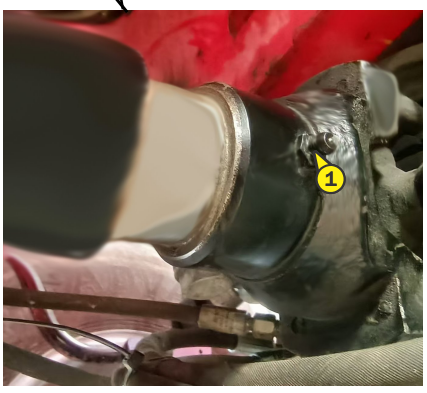
In case of prolonged use in extremely dusty or oxidizing atmospheres, the interval is reduced to 10 hours of operating time or per day.

Clean and grease the following points (see: 3-Maintenance: Lubricants and fuel) and remove excess grease.Drive universal joint
1 - Drive universal joint front/rear axle (2 lubrication).
Telescopic arm
2 - Lubrication of boom shaft (1 lubrication).
3 - Lubrication of fork carriage shaft (2 lubrication).
4 - Lubrication of tilt cylinder foot shaft (1 lubrication).
5 - Lubrication of tilt cylinder head axle (1 lubrication).
6 - Lubrication of lift cylinder foot shaft (1 lubrication).
7 - Lubrication of lift cylinder head axle (1 lubrication).
8 - Lubrication of rear axle sway (4 lubrication). 9 - Lubrication of front axle sway (4 lubrication).


4
3
3
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6
2
VANSE


8

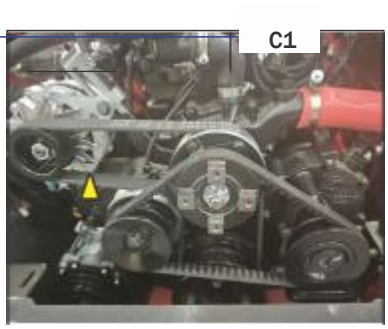



1

C - Every 250 working hours

执行前文描述的操作与下文描述的操作。

C1 -Alternator belt tension (air conditioning)


C1

Alternator belt 3

- Open the hood.

- Check belts 1, 2 for signs of wear and cracks and replace if necessary (see: 3-Maintenance: Filter cartridges and belts). (Fig. C1).

- Check belt tension of belts 1, 2.

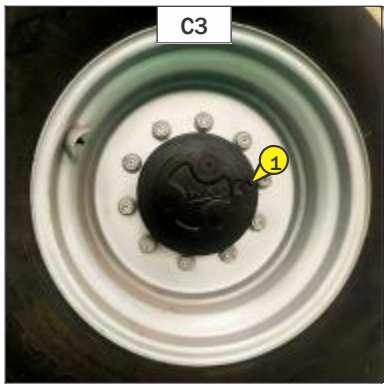
- Under standard pressure (45N) of the thumb pressure method, the belt movement should be approximately 10 mm. Tighten belts 1, 2 by adjusting tensioners 3, 4 respectively.

If the alternator must be replaced, check the tension again after the first 20 hours of operation.

C2 -Front and rear axle differential oil level


C2

Place the telehandleron a level surface and switch off the engine. 1
- Remove the oil level plug 1 (Fig. C2). The oil level should be flush with the edge of the hole.
- If necessary, add oil through the oil filling hole (Fig. C2) (see: 3-Maintenance: Lubricants and fuel).
- Replace and tighten the oil level plug 1 (Fig. C2) (tightening torque 34 to 49 Nm).



D - Every 500 working hours

D1 -Engine oil

D2 -Engine Oil Filter


D2/1

Place the telehandleron a level surface, let the engine idle for a few minutes and then switch it off.
Draining the oil
- Open the hood.
- Place a container under the lower drain plug and unscrew drain plug 1 (Fig. D2/1).
- Make sure the oil has been drained correctly.



D2/2

A *Dispose of drained oil in an ecological manner.*

Replacing the filter
- Unscrew and remove the engine oil filter 2 (Fig. D2/2) together with its O-ring.
- Clean the filter holder with a clean, dust-free cloth.
- Before refitting the new engine oil filter, lightly lubricate the new O-ring (see: 3 – Maintenance of filters and belts)

A *Tighten the oil filter by hand and give it a quarter turn to secure it in place.。*

Filling with oil
- Refit and tighten the drain plug 1 (Fig. D2/1).
- Fill with oil through the filling hole 5 (Fig. D2/3) (see: 3-Maintenance: Lubricants and fuel).
- Wait a few minutes to allow the oil to flow into the sump.
- Start the engine and let it run for a few minutes.
- Check for leaks in the drain plug and the oil filter.
- Stop the engine, wait a few minutes and check the oil level on the dipstick 6 (Fig. D2/3).
- If necessary, raise the oil level.
- Replace the engine hood (Fig. D2/1).

D3 -Dry Air Filter Cartridges



D3/1

If the telehandleris used in a dusty atmosphere, provide a pre-filter cartridge (see: 3-Maintenance ：Filter cartridges and belts.
At the same time, the inspection and cleaning intervals of the filter cartridge must be shortened (250 hours in a dusty atmosphere and when pre-filtering is required).

Replace the filter cartridge in a clean location with the engine stopped.

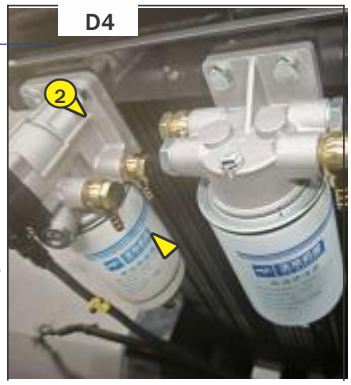
Do not operate the telehandlerwith the air filter removed or damaged.

- Open the engine hood.
- Loosen the connection and remove the cover 1 (Fig. D3/1).
- Remove the filter cartridge 2 (Fig. D3/2) smoothly, taking care not to spill dust.
- Leave the safety filter cartridge 3 in place (Fig. D3/3).
- The following parts must be cleaned with a damp, clean, dust-free cloth:
• The inside of the filter and the filter cover.
• The inside of the filter inlet pipe.
• The surface of the gasket in the filter and the filter cover.
- Check the connection between the pipe and the air filter and the engine, as well as the filter clogging indicator.
- Before installation, check the condition of the new filter cartridge (see: 3-Maintenance: Filter cartridges and belts).
- Place the filter cartridge on the filter shaft and push it in by pressing on the edges, not in the middle.
- Reassemble the cover so that the valve is facing downwards.。





D4-Fuel pre-filter



A *Make sure the power to the telehandleris turned off,*

otherwise fuel will escape when the lift pump starts.

-Open the bonnet.
- Clean the filter and the outside of the filter holder carefully to prevent dust from falling into the system.
- Place a container under the prefilter and drain the oil through the drain plug 1 (Fig. D4), making sure that the oil has been properly drained. Unscrew the filter 3 from the filter holder 2 and remove the filter 3 (Fig. D4) and the sealing O-ring.
- Prefill the new filter with clean fuel.
- Reinstall the new filter and the sealing O-ring (see: 3 - Maintenance: Filter cartridge and belt).
- If necessary, release the fuel circuit (see: 3 - Maintenance: G1 - Fuel system).

D5 -Fuel filter cartridges

Change



A *Make sure the power to the telehandleris turned off, otherwise*

fuel will escape when the lift pump starts

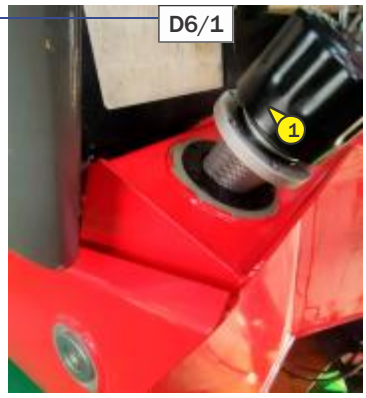
- Open the bonnet.
- Clean the filter and the outside of the filter holder carefully to prevent dust from falling into the system.
- Unscrew filter 4 from filter holder 2 and remove filter 4 (Fig. D5) and sealing O-ring.
- Prefill the new filter with clean fuel.
- Reinstall the new filter and sealing O-ring, tighten by hand, turn three quarters of a turn and lock. (Ref: 3 - Maintenance: Filter cartridge and belt)
- If necessary, release the fuel circuit (Ref: 3 - Maintenance: G1 - Fuel system).

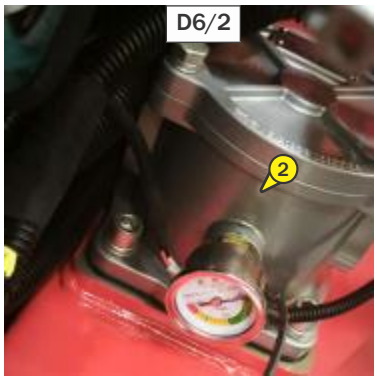
D6-Hydraulic return oil filter cartridge

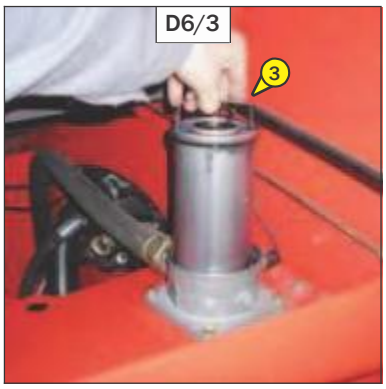
Stop the engine and release the pressure in the circuit via the hydraulic controller.

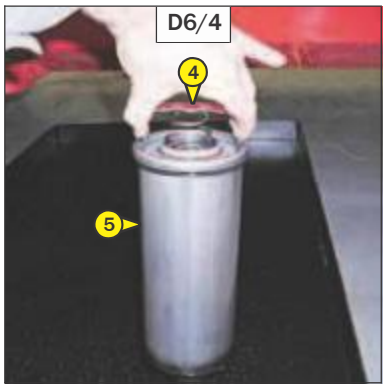
A *Before any adjustment operation, to avoid contamination of the hydraulic circuit, thoroughly clean the outside of the filter and surrounding parts.*

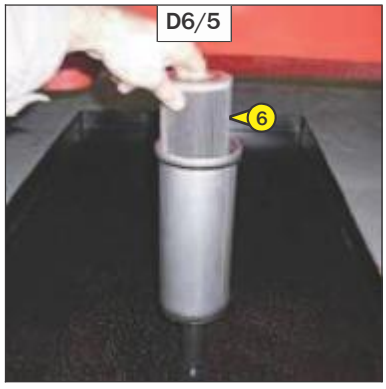
- Remove the oil filling plug 1 (Fig. D6/1).
- Remove the filter cartridge assembly 2 (Fig. D6/2).
- Place the assembly in a clean container (Fig. D6/3).
- Pinch the head 4 and separate it from the oil tank 5 (Fig. D6/4).
- Replace the filter cartridge 6 (Fig. D6/5) (see: 3 - Maintenance: Filter cartridges and belts).
- Replace the assembly and re-tighten the cover 2.
- Re-install the oil filling plug 1。











D7-Front and rear axle differential oil



Place the telehandleron level ground and shut off the engine while the differential oil is still hot.

A *Dispose of drained oil in an ecological manner.*

- Place a container under the drain plug 1 (fig. D7) and loosen the plug.
- To ensure proper oil drainage, remove the filler plug 2 (fig. D7).
- Reinstall and tighten the drain plug 1 (fig. D7) (tightening torque 34 to 49 Nm).
- Fill the oil through the filler hole (fig. D7) (ref: 3-Maintenance: Lubricants and fuel).
- The oil level is correct when it is flush with the edge of the filler hole (fig. D7).
- Check the drain plug for any leaks.
- Reinstall and tighten the filler plug 2 (fig. D7) (tightening torque 34 to 49 Nm).
- Repeat the above operation for the rear axle differential.

E - Every 1000 working hours

E1 -Fuel tank



Do not smoke or work near open flames while performing these operations.

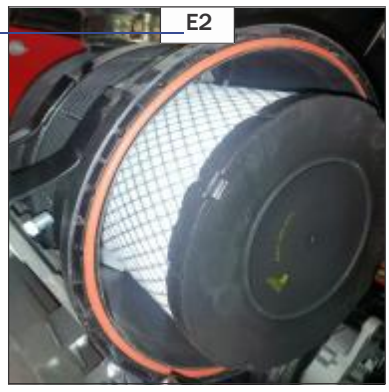
Place the telehandleron level ground and turn off the engine.
- Check the hydraulic circuit and the oil tank for leaks.
- If you find any leaks, contact your dealer.

A *Do not perform welding or any other operation by yourself, as this may cause explosion or fire.*

- Place a container under drain plug 1 (Fig. E1/1) and unscrew drain plug 1.
- Remove filler plug 2 (Fig. E1/2) and ensure that the oil drains correctly.
- Flush with ten litres of clean diesel through filler hole 3 (Fig. E1/2).
- Refit and tighten drain plug 1 (tightening torque 29 to 39 Nm).
- Replace filler cap.
- If necessary, bleed the fuel circuit (see: 3 - Maintenance: G1 - Fuel system).



E2 -Safety Dry Air Filter Cartridges



- To remove and reinstall the filter cartridge, see: 3-Maintenance: D3-Dry Air Filter Cartridges
- Remove the dry air filter safety cartridge 1 (Figure E2) smoothly, taking care not to spill dust.
- Clean the filter pad surface with a damp, clean, dust-free cloth.
- Before installation, check the condition of the new safety cartridge (see: 3-Maintenance: Cartridges and Belts).
- Place the cartridge on the filter shaft, pushing the cartridge in by pressing the edges, not the center.

Note: The replacement cycle of the safety cartridge is for reference only. The safety cartridge must be replaced every two air filter cartridge changes.

E3 -Transmission oil

E5 -Hydraulic oil

E6 -Hydraulic oil tank suction filter

E7 -Hydraulic oil tank suction filter

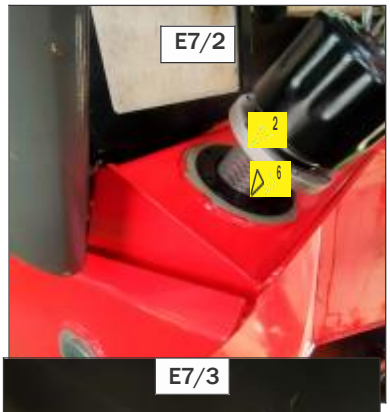

E7/1

Place the telehandleron level ground, stop the engine,
retract the telescopic boom and lower itas far as possible.

Before any intervention, thoroughly clean the area around the drain plug and the hydraulic tank suction strainer.

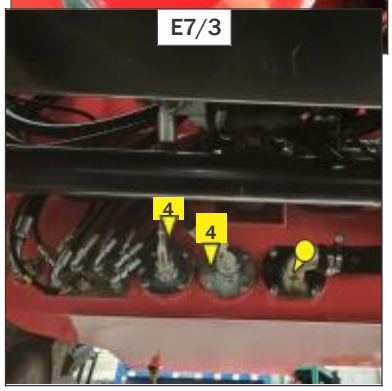
Drain the oil
- Place a container under the drain plug 1 (Fig. E7/1) and loosen the drain plug.
- Remove the oil filler plug 2 (Fig. E7/2) and ensure that the oil drains correctly.

Dispose of drained oil in an ecological manner.



E7/2

- Disconnect the hose 4 (Fig. E7/3).
- Unscrew the suction filters 5 (Fig. E7/4) of the working pump, travel pump and gear pump, clean them with compressed air, check their condition and replace them if necessary. (See: 3 - Maintenance: Filters and belts).
- Reinstall the suction filters, making sure that their seals are in the correct position.



E7/3

Oil filling
- Reinstall and tighten the drain plug 1 (Fig. E7/1) (tightening torque 29 to 39 Nm).
- Add oil through the oil filling hole 6 (Fig. E7/2) (See: 3 - Maintenance: Lubrication and fuel).

Before filling with oil, clean the oil filling hole and use a clean container and funnel.

- Observe the oil level on the dipstick 7 (Fig. E7/2), which should be at the red dot.
- Check the drain plug for any possible leaks.
- Reinstall the fill plug 2 (Fig. E7/2).



E7/4

Cleaning the hydraulic circuit
This should be carried out by your dealer at every oil change.
The hydraulic oil used in the circuit must be of a quality of at least grade 8 (according to NAS1638). Your dealer must be able to clean the hydraulic circuit using external equipment and check the oil quality to ensure the service life of the hydraulic parts, especially the main pump.

E8 -seat belt

检查

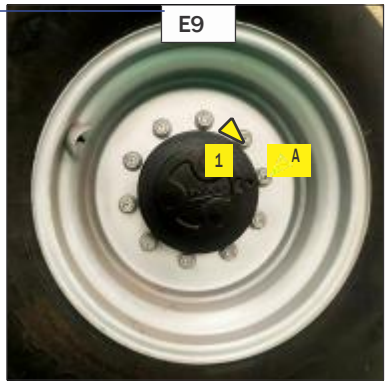
Seat belt with two anchor points
- Check the following:
• The fixation of the anchorage on the seat.
• Cleanliness of the belt and the locking device.
• The triggering of the locking device.
• The condition of the belt (cuts, curling).

Seat belt with two anchor points
- Check the above and the following:
• Correct winding of the belt.
• The condition of the spool guard.
• In case of strong belt drag, check the roller locking mechanism.

Note: Replace the seat belt after an accident.

Do not use the telehandlerunder any circumstances if the safety belt is malfunctioning (fastened, locked, cut or torn,
etc.). Repair or replace the safety belt immediately.

E9 - Front and rear wheel reducer oil



Park the telehandleron level ground, turn off the engine, and the reducer oil is still hot.

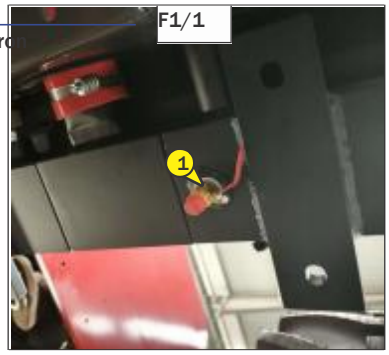
A *Dispose of drained oil in an ecological manner.*

-Drain the oil and replace each wheel reducer.
- Place the drain plug 1 (fig. E9) in position A.
- Place a container under the drain plug and loosen the drain plug.
- Allow the oil to drain completely.
- Set the drain hole in position B, e.g. in a level hole.
- Fill the oil through the oil level hole 1 (fig. E9) (see: 3-Maintenance:. Lubricants and fuel).
- The oil level is correct when it is flush with the edge of the hole.
- Reinstall and tighten the oil level plug 1 (fig. E9) (tightening torque 34 to 49 Nm).

F - Every 2000 working hours

F1 -Coolant

Carry out these operations when necessary or every two years at the onset of winter. Place the telehandler on level ground, switch off and cool the engine.



F1/1

Drain the fluid

- Open the engine hood.
- Place a container under the drain valve 1 (Fig. F1/1) of the radiator and the drain plug 2 (Fig. F1/2) of the engine block and loosen them.
- Remove the oil filling hole 3 (Fig. F1/3) from the radiator and open the thermal control to the maximum level to ensure correct draining.
- Drain the fluid from the cooling circuit completely, making sure that the holes are not blocked.
- Check the condition of the hoses and fasteners and replace them if necessary.

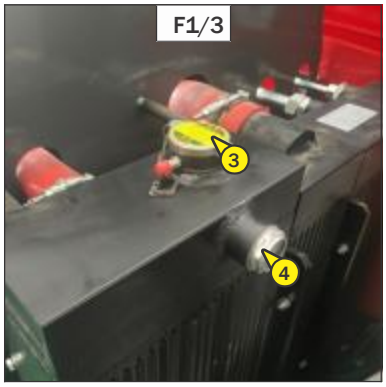
-Flush the circuit with clean water and, if necessary, a cleaning agent.



Filling with fluid

- Refit and tighten the drain valve 1 (Fig. F1/1) and drain plug 2 (Fig. F1/2) (tightening torque 40 Nm).
- Slowly add coolant to the circuit through the filler hole 3 (Fig. F1/3) (see: 3 - Maintenance: Lubricants and fuel) to the middle of the gauge 4 (Fig. F1/3).
- Let the engine idle for a few minutes.
- Check for any leaks.
- Check the fluid level and fill again if necessary.

A *The engine does not contain any anti-corrosion agent and must be added with 25% ethylene glycol-based antifreeze throughout the year.*

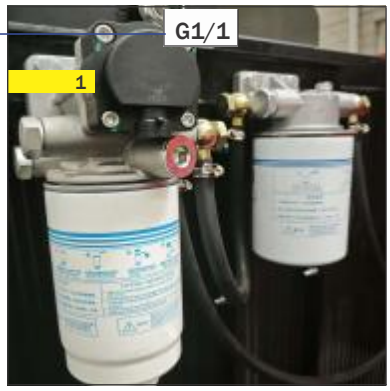


F1/3

G -Temporary maintenance

G1 – Fuel System

vent



Perform these actions only if:

- When replacing a component of the fuel system.
- When draining the fuel tank.
- When running out of fuel.

Make sure there is enough fuel in the tank and pump it out as follows:

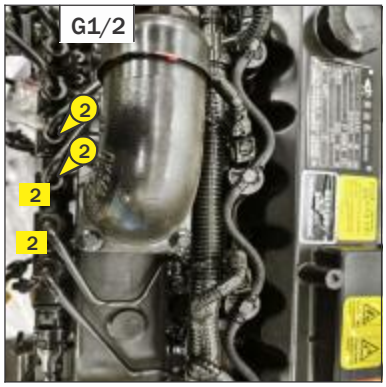
Method A: Use the automatic pump of the fuel pre-filter to pump out the fuel. Be sure to follow the following sequence:

- Open the engine hood.

–

Start the telehandlerfor three minutes to allow the automatic pump of the fuel p re-filter to have enough fuel.

The air in the filter is discharged over a period of time (Fig. G1/2).



- After the fuel intake and return exhaust, immediately let the engine run slowly for 5 minutes to ensure that all the gas in the fuel injection pump is exhausted. Note: If the engine runs normally for a short time and then stops or runs abnormally, check for leaks in the low-pressure circuit. If in doubt, contact your dealer.

G2 -wheel

replace



A*If you need to change wheels on the road, the following points should be observed:*

For this operation, we recommend that you use a hydraulic jack and a safety support.

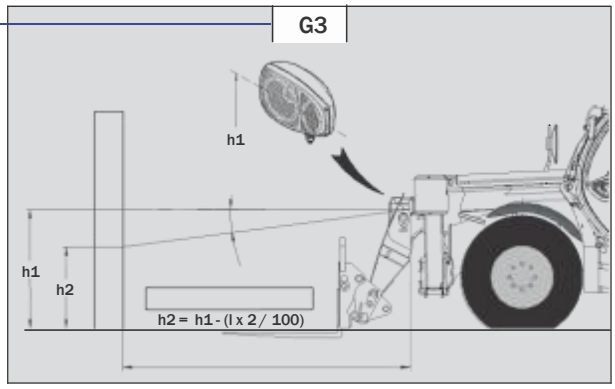
- Park the telehandleron a flat and firm surface as far as possible.
- Check that the telehandleris stopped (see: 1-Operation and safety instructions: Driving instructions when unloaded and loaded).
- Turn on the warning lights.
- Secure the telehandlerin both directions on the designated axle, which is opposite to the wheel to be replaced.- Loosen the nut of the wheel to be replaced

- Place a jack under the flared axle tube, as close to the wheel as possible, and adjust the jack (Fig. G2/1).
- Lift the wheel until it is clear of the ground and place a safety support under the axle (Fig. G2/2).
- Completely loosen the wheel nuts and remove them.
- Using a back and forth motion, loosen the wheel and let it roll to one side.
- Slide the new wheel onto the hub.
- Refit the screws by hand and lubricate if necessary.
- Remove the safety support and lower the telehandlerback onto the jack.
- Tighten the wheel nuts with a torque wrench (see: 3-Maintenance: A- Check the tightening torque every day or every 10 hours of operation).



G3 -Front lights

G3



Recommended settings
Set to - 2% ratio of low beam to headlight level.

Adjustment procedure.
-
Place the unloaded telehandlerin the transport position and vertically positi on a white wall on a flat floor (Fig. G3).
- Check tire pressure (see: 2-Note: Tires).
- Set the gear in neutral.

Calculate the low beam height (h2)
- h1 = height of the low beam relative to the ground.
- h2 = height of the adjusted beam.
- l = distance between the low beam and the white wall.

G4 – Battery failure

G4/1



-Open the engine hood.
-
Take a floating battery of the same type as the one used for the telehandlerca ble.- Connect the floating battery according to the polarity. (Fig. G4/1)(Fig. G4/ 2).
-
Start the telehandlerand remove the cable as soon as the engine starts runnin g.
- Open the side cover 1 and replace the battery 2 (Fig. G4/3).

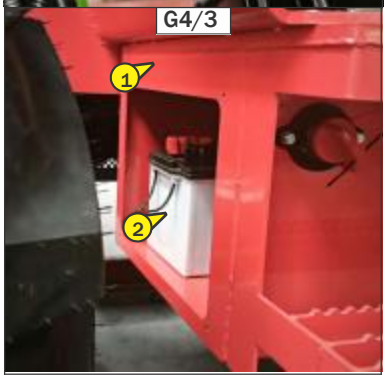
G4/2



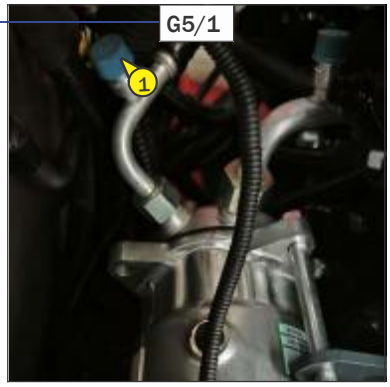
Handling batteries is dangerous, please follow the steps below:

- Wear goggles.
- Keep the battery level.
- Do not smoke or work near open flames.
- Work in a well-ventilated area.
- If sparks come into contact with your skin or eyes, rinse with cold water for 15 minutes and seek medical attention.

G4/3

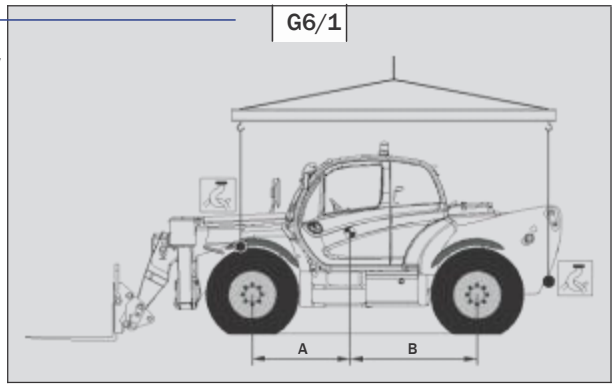


G5 – Air conditioner fluorine deficiency fault



- Open the engine hood.
- Unscrew the nut 1 (Fig. G5/1) on the air compressor.
- Ask a professional fluorine filling technician to use a professional fluorine filling equipment to connect this hole for filling.

G6 – telehandler



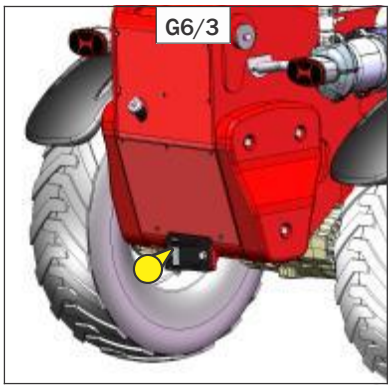
- When lifting, take into account the position of the telehandler's centre of gravity

(Fig. G6/1). With floating fork carriage

A = 1595 mm B = 1255 mm

- Place the hook on the fixed point. (Fig. G6/2 and G6/3)





G7 -telehandleron platform

Before loading the telehandler, make sure that the safety instructions for the platform are followed and that the driver of the vehicle is informed of the telehandlerdimensions and weight. 2- Description: Features).

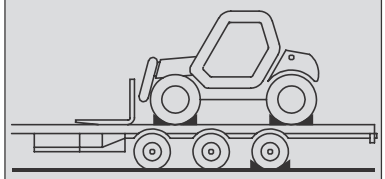
Make sure that the dimensions and load capacity of the platform are suitable for handling the telehandler. Also check that the contact pressure between the platform and the telehandleris appropriate.

For telehandlers with a turbocharged engine, block the exhaust port to prevent the unlubricated turbine shaft from turning when handling the telehandler.

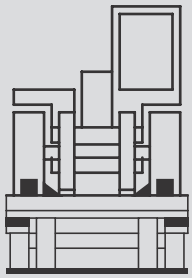
telehandlerloading

- Block the platform wheels.
- Secure the loading platform so that the telehandleris lifted at the smallest possible angle.
- When loading the telehandler, keep it level with the platform.
- Stop the telehandler(see: 1- Operating and safety instructions: Driving instructions when unloaded and loaded).Towing the telehandler
- Place wedges in front and behind each wheel on the platform (Fig. G7/1).
- Place wedges on the inside of each wheel on the platform (Fig. G7/2).
- Tow the telehandleron the platform with a sufficiently strong rope. Fastening point 1 at the front of the telehandler (Fig. G7/3) and towing pin 2 at the rear (Fig. G7/4).
- Tighten the rope.

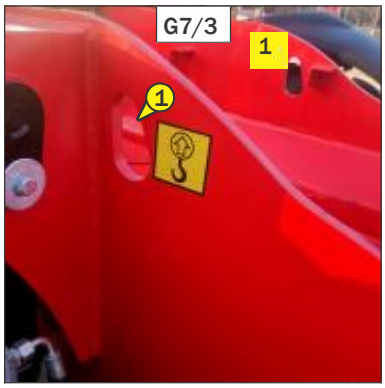
G7/1



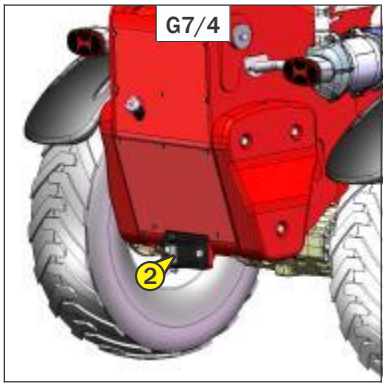
G7/2



G7/3



G7/4



H - Rules for periodic inspection of major safety functions

If the above check result is negative, please contact your dealer.

-This non-exhaustive requirement is for reference only and will not affect the inspection results.

On a telehandler

1 - Longitudinal stability alarm
-Take a load with a known mass greater than 1000 kg.
-Park the truck on a level, unobstructed surface.
-Keep the tires and set the telescopic arm level.
-Gradually extend and retract the arm and check the longitudinal stability and the torque indication on the HMI.

2 - Emergency stop button in the cab.
-Park the telehandler on a level surface with the engine idling.
-Press the emergency stop button and the engine must stop.

3- Parking brake
-Place the telehandler with rated load on a slope of 15% (8.5°) or slightly higher, with the engine idling.
-Stop the engine and check that the telehandler is not moving.

4 - Operator presence
- Verify that the operator is present.
- Place the truck on level ground with the engine idling.
- Check that the telehandler (forward/neutral/reverse) movement and the telehandler hydraulic movement functions are available.

Shandong Vanse Group reserves the right to upgrade its products, which may be inconsistent with this manual after the upgrade. Vanse Group has the final right of interpretation of this manual.