

ORIGINAL INSTRUCTIONS - according to Directive 2006/42/EC, Annex I, 1.7.4.1

621G
721G
Stage IV
Wheel Loader

OPERATOR'S MANUAL

Part number 51418832

1st edition English

November 2017



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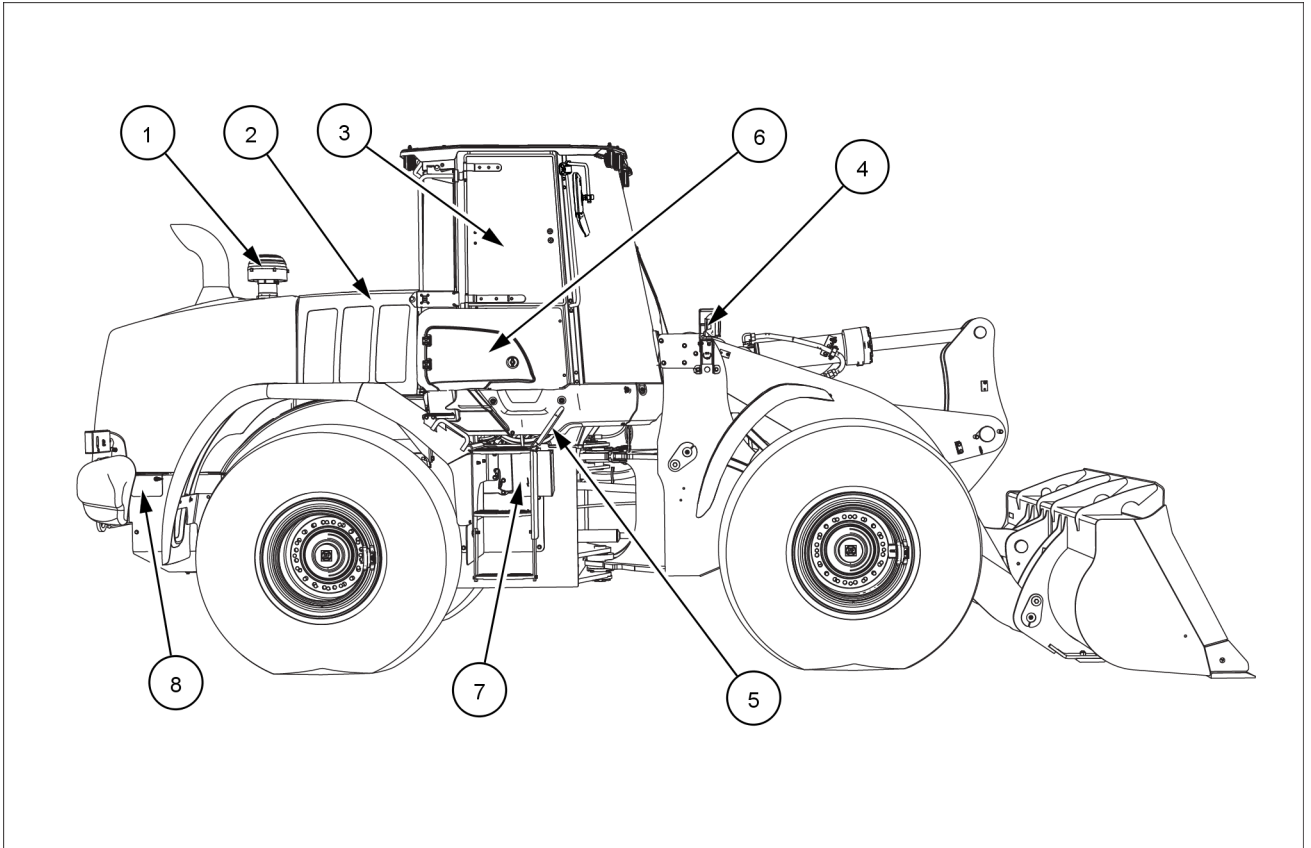
Electro-Magnetic Compatibility (EMC)

This machine complies strictly with the European Regulations on the electro-magnetic emissions. However, interference may arise as a result of add-on equipment which may not necessarily meet the required standards. As such interference can result in serious malfunction of the unit and/or create unsafe situations, you must observe the following:

- Ensure that each piece of non- CASE CONSTRUCTION equipment fitted to the machine bears the CE mark.
- The maximum power of emission equipment (radio, telephones, etc.) must not exceed the limits imposed by the national authorities of the country where you use the machine.
- The electromagnetic field generated by the add on system should not exceed **100 V/m** at any time and at any location in the proximity of electronic components.

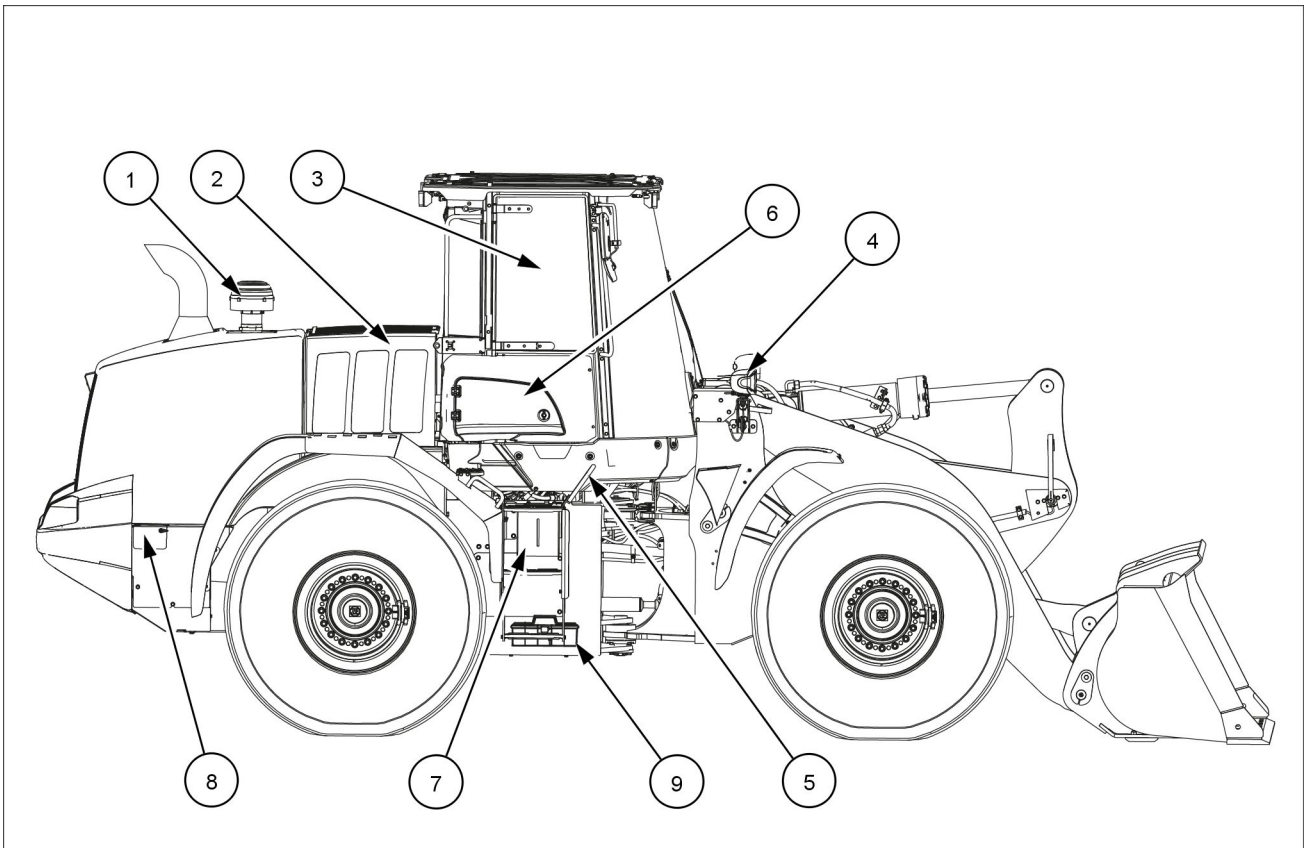
Failure to comply with these rules will render the CASE CONSTRUCTION warranty null and void.

1 - GENERAL INFORMATION



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Maintenance precautions

- Do not attempt repairs unless trained. Refer to manuals and experienced repair personnel for help.
- Before you service the machine, always place a DO NOT OPERATE tag on the key switch. Make sure that the machine is clearly “tagged out”.
- Wear protective glasses and other required safety equipment when servicing or repairing the machine.
- Wear gloves to protect hands when handling cable.
- Disconnect the battery clamp from the negative battery terminal before working on the electrical system. Know the consequences of disconnecting any electronic or computer devices.
- Avoid lubrication or mechanical adjustments with the machine in motion or the engine operating. If the engine must be in operation to make certain adjustments, place the transmission in neutral, install the articulation lock, apply the parking device, place the bucket/attachment in a safe position, securely block the wheels and use extreme caution.
- Securely block the machine or any component that may fall before working on the machine or component. If possible, use a backup or secondary blocking device as well.
- To prevent unexpected movement, securely block working elements when repairing or changing working tool parts such as cutting edges.
- Never make repairs on pressurized components, fluid, gas or mechanical until the pressure has been relieved according to the manufacturer’s instructions.
- Use extreme caution when removing radiator, reservoir, or tank caps, drain plugs, grease fittings or pressure taps. Park the machine and let it cool before opening a pressurized tank.
- Release all pressure before working on systems which have an accumulator.
- Hydraulic oil or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injuries. To prevent personal injury, relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make certain all connections are tight and components are in good condition.
- Use a piece of cardboard, newspaper, or wood to check for any pressurized leaks to prevent fluid penetrating the skin. Pressurize accumulators with the proper gas according to manufacturer’s recommendations.
- When inflating tires, use a self-attaching inflation chuck with remote shutoff and stand clear of the tire. Position yourself beside the tire and not beside the rim.
- Towing this machine is not recommended.
- When absolutely necessary to tow the machine, do not exceed the recommended towing speed. Be sure the towing machine has sufficient braking capacity to stop the towed load. If the towed machine cannot be braked, a tow bar must be used or two towing machines must be used - one in front pulling and one in the rear to act as a brake. Avoid towing over long distances.
- Always observe proper maintenance procedures.
- Always replace all missing, illegible or damaged safety signs or decals as necessary. Keeps all safety signs and decals clean and legible.

Observe proper maintenance procedures

- Whenever servicing or replacing hardened pins, etc., use a brass drift or other suitable material between the hammer and the pin. Alt: use a brass hammer, drift or suitable material on the pin, etc.
- Keep the brakes and steering systems in good operating condition.

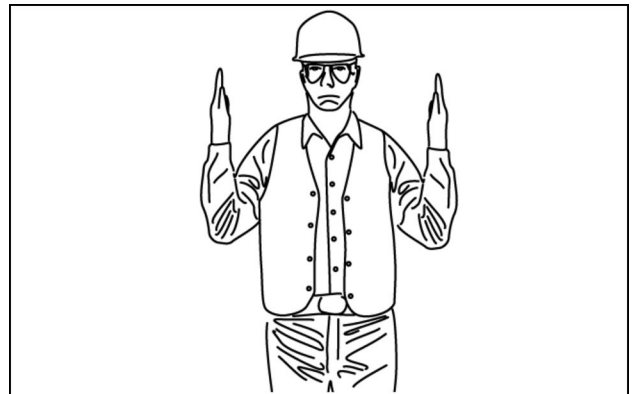
2 - SAFETY INFORMATION

Move away from me
Wave hands back and forth (palms outward).



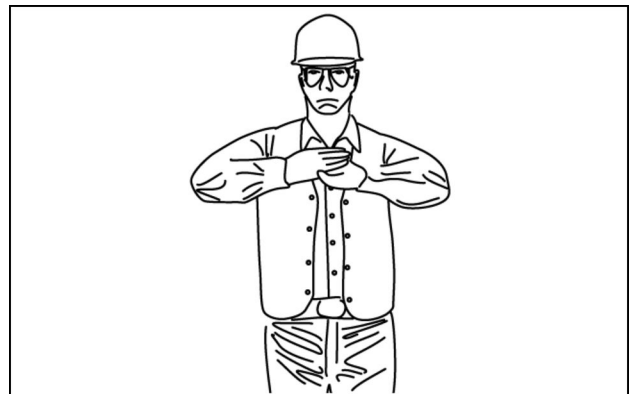
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Go this far



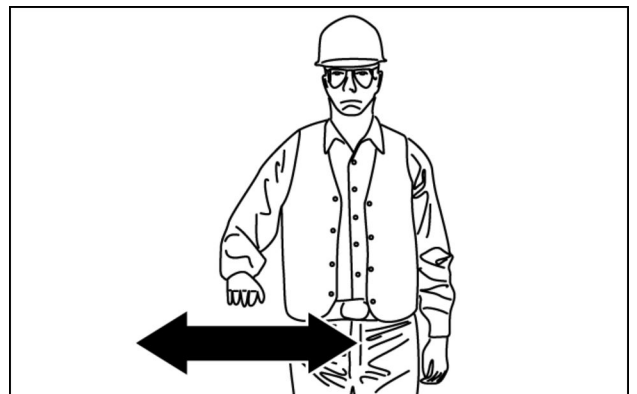
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All stop and hold

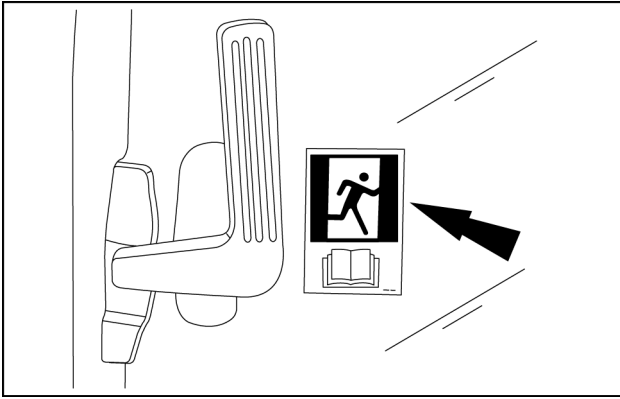


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Stop
Move one hand back and forth.



LEEN11T0011AA 7



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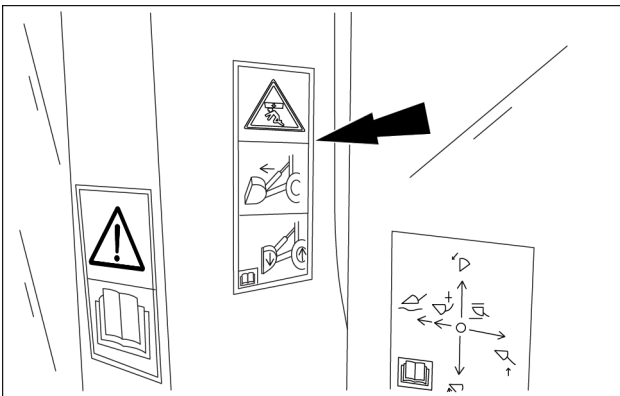
Location: right-hand operator's compartment window.

This safety sign indicates that the window is the emergency exit.

ISO decal number: 329051A1



329051A1 8



LEIL15WHL1866AA 9

Location: right-hand support, inside the operator's compartment.

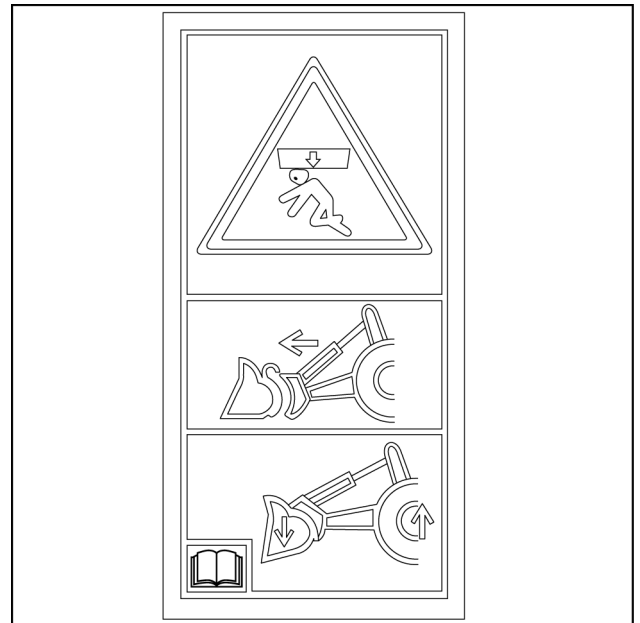
WARNING

Falling object hazard!

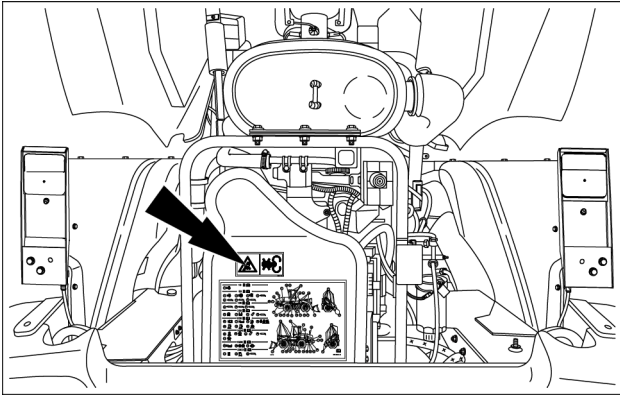
Always check the attachment for proper engagement before using.

Failure to comply with this warning could result in death or serious injury.

ISO decal number: 364917A1

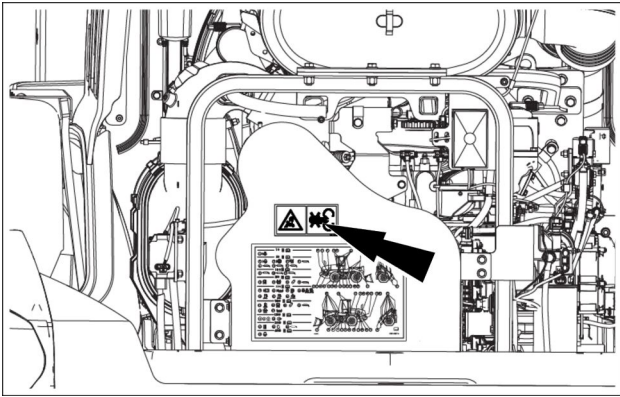


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Location: rear of the engine compartment, on the fan guard.

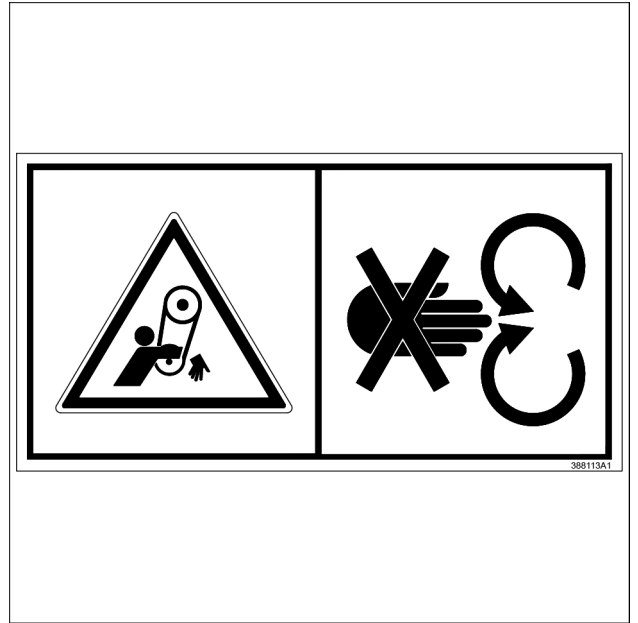
WARNING

Entanglement hazard!

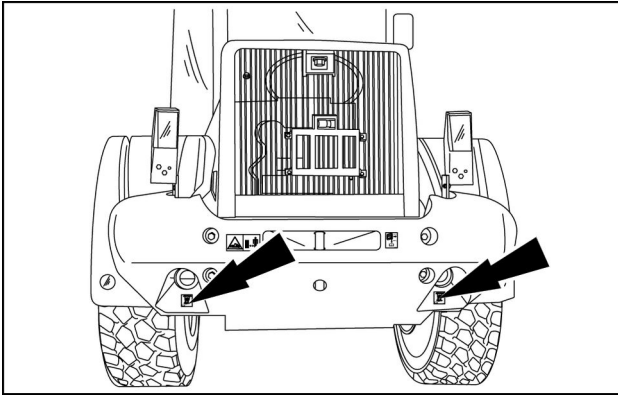
Keep clear or stop the engine before servicing.

Failure to comply with this warning could result in death or serious injury.

ISO decal number: 388113A1

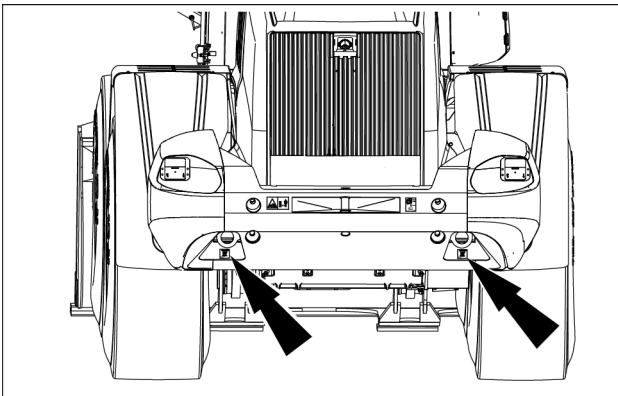


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Location: front and rear side of the machine.

Informational decal: tie down the machine only from the tie down points identified by this decal. See "Transporting the machine" – Chapter 5 in this manual for more information.

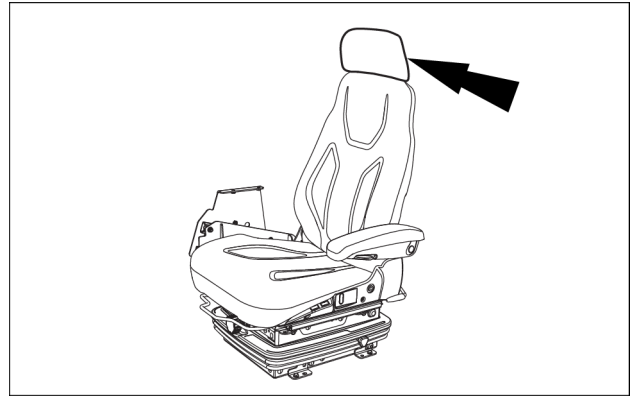
ISO decal number: 84409663



84409663_ 83

Headrest (Optional)

The seat is equipped at the top with provisions for optional headrest.



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Pedal controls

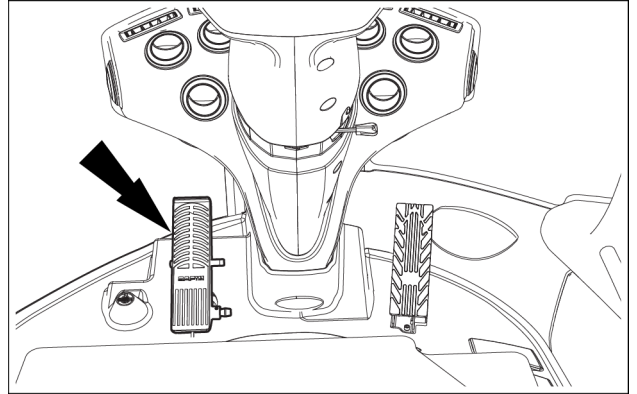
Brake pedal

When pushed, the brake pedal actuates the machine brakes.

NOTE: the pedal works in conjunction with the transmission declutch switch or POWERINCH for more efficient braking. See "Loader functions – Declutch switch" – Chapter 4 in this manual for further information.

NOTICE: on steep slopes, use the down shift mode of the transmission to aid braking and to help prevent brake overheating and premature disc wear.

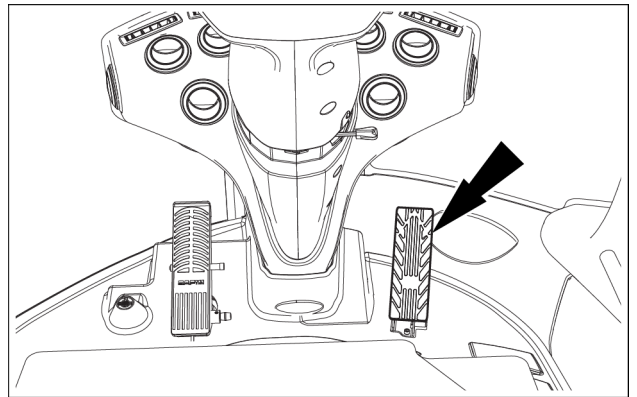
NOTE: when the machine is shut off, the parking brake is automatically set.



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Foot Throttle

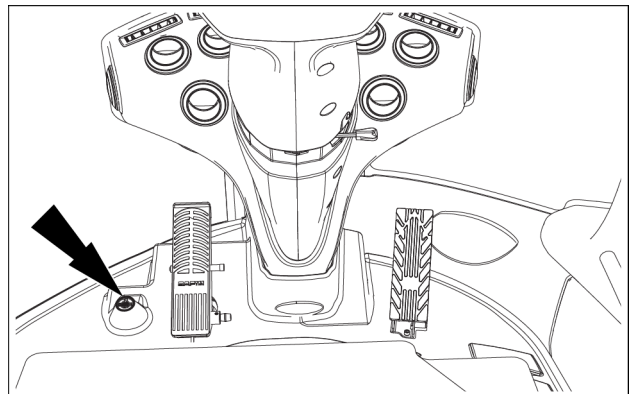
Push the foot throttle to increase the engine speed. When the pedal is released the engine runs at low idle.



LEIL16WHL1557AB 2

Differential lock (Optional)

Depress the differential lock foot switch to lock the front axle differential. Release the switch to unlock the differential.



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5. Auxiliary F-N-R



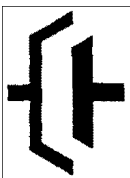
Press the auxiliary F-N-R button to enable/disable the auxiliary F-N-R switch located on the joystick or next to the single axis levers.
See Chapter 4 for further information.
LED color: green.

6. Auto shift



Press the auto shift button to enable/disable the automatic operation mode for the transmission. When the auto shift function is activated, the transmission will automatically shift up and down between 1st or 2nd and the highest speed setting on the transmission control lever.
See Chapter 4 for further information.
LED color: green.

7. De-clutch (4-speed only) / Power inch (5-speed only)



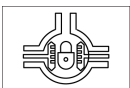
Press the de-clutch/power inch button to enable/disable the de-clutch on 4-speed transmissions or power inch on 5-speed transmissions. This feature can improve loader applications when truck loading and tight corner operations are required.
See Chapter 4 for further information.
LED color: green.

8. Torque converter lock-up (5-speed only)



Press the torque converter lock-up button to enable/disable the torque converter lock-up function. This function allows a direct mechanical connection between the engine and the transmission to eliminate torque converter loss. It allows the operator to remain locked up from the second gear upward. It allows for faster vehicle accelerations and speeds.
LED color: green.

9. Automatic differential lock (if equipped)



With the automatic differential lock button in ON position, the automatic differential lock system is enabled. The hydraulic differential lock will automatically engage when required for the wheel loader. The differential lock is activated any time the operator presses the differential lock foot switch, regardless of whether the automatic differential lock system is enabled or not.
LED color: green.

10. Return-to-dig



Press the return-to-dig button to enable/disable the return-to-dig function. This function allows the bucket to return to level with the ground for digging.
See Chapter 4 for further information.
LED color: green.

11. Height control



Press the height control button to enable/disable the height control function. This function allows the bucket to raise to the set height position when activated.
See Chapter 4 for further information.
LED color: green.

12. Return-to-travel

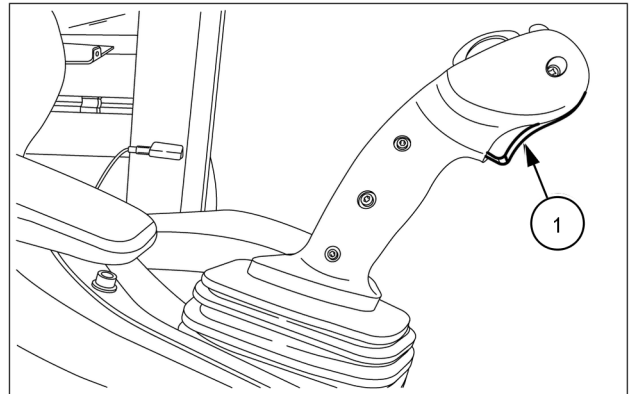


Press the return-to-travel button to enable/disable the return-to-travel function. This function allows the bucket to automatically return to the travel position after you have dumped the loader bucket.
See Chapter 4 for further information.
LED color: green.

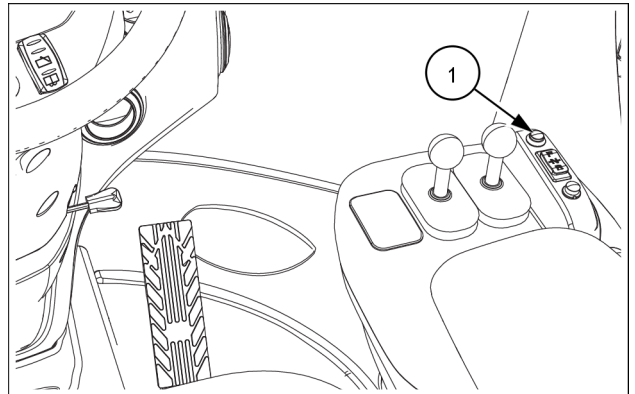
3. Kick-down button

You can use the kick-down button **(1)** to shift down through the gears in single steps. Each time you press the kick-down button **(1)**, the transmission will shift down one gear range until the first gear is reached. Once the kick-down button **(1)** has been pressed down, the transmission maximum gear allowed is lowered. The kick-down button **(1)** will return to the automatic mode in one of the two cases, as follows:

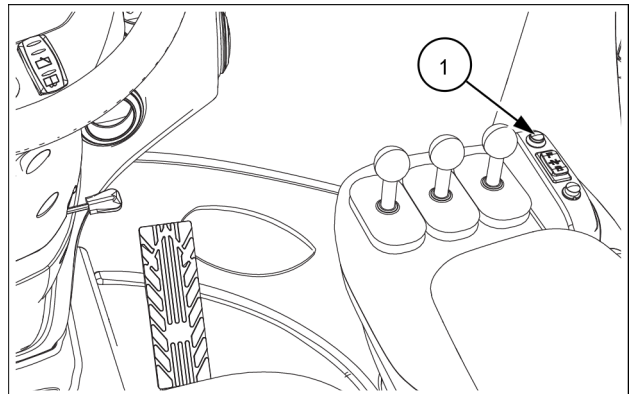
1. when the transmission control lever changes gear;
2. when the transmission control lever is moved to NEUTRAL and then to FORWARD or to REVERSE.



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LEIL16WHL1303AA 19



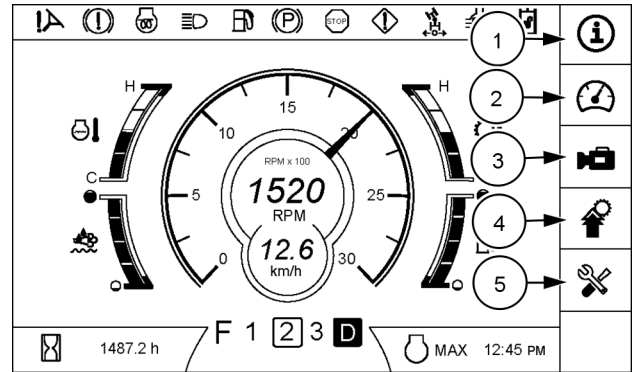
LEIL16WHL1302AA 20

MAIN MENU

After the key switch has been turned to ON, the operator or service technician may use the main menu to adjust the machine configurations to working conditions, to test components, to view faults that may have occurred, or to select preferences.

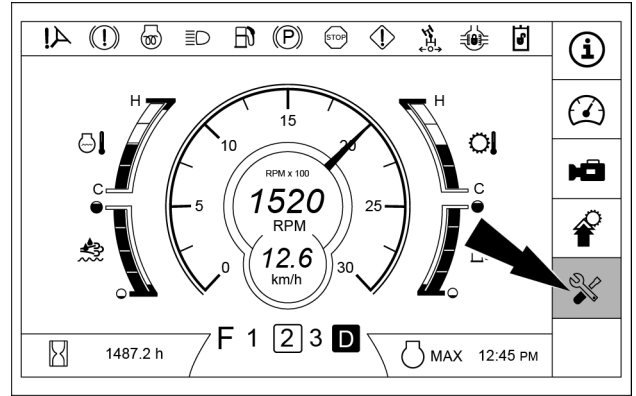
Items and selections in this menu are:

1. Machine status
2. Trip
3. Rearview Camera
4. Machine settings
5. Machine Service



MACHINE SERVICE

Use the keypad on the right-hand of the display to select the key to access to the “Machine service” screens.



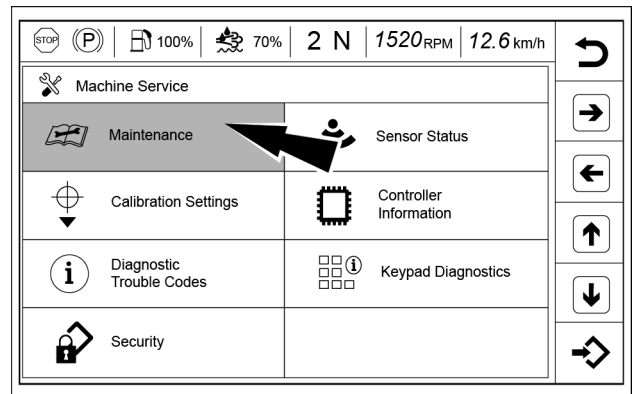
LEIL16WHL0908AA 30

Items and selections in this menu are:

- Maintenance
- Sensor Status
- Calibration Settings
- Controller Information
- Diagnostic Trouble Codes
- Keypad Diagnostics
- Security

Maintenance

Use the keypad on the right-hand of the display to select the key to switch to the “Maintenance” settings.

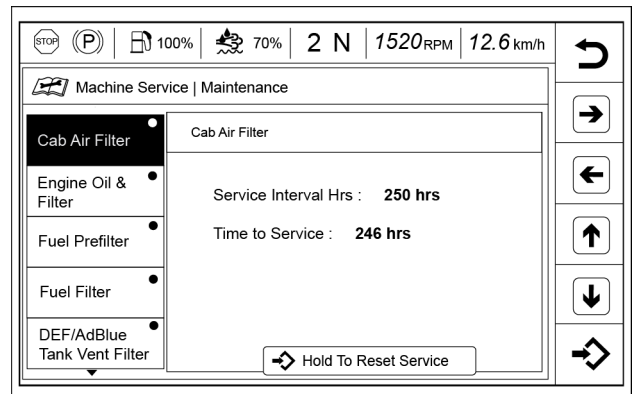


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→ Maintenance selections:

Cab air filter:

- Service Intervals Hrs: **250 h**
- Time to Service: (hours remaining until service is due)



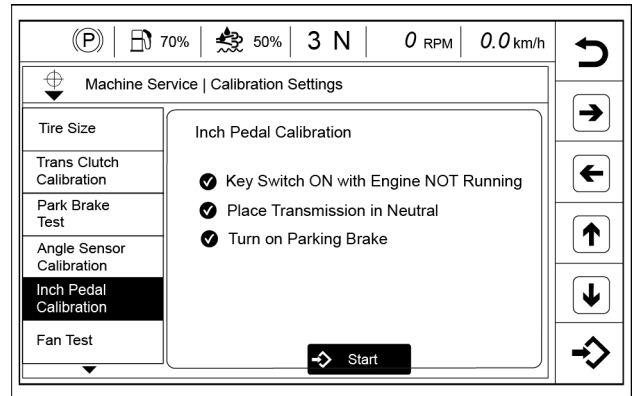
LEIL16WHL0896AA 32

→ Inch Pedal Calibration (5 speed only)

Conditions to be satisfied to start the inch pedal calibration:

- Key Switch ON with Engine NOT Running
- Place Transmission in Neutral
- Turn On Parking Brake

Select "Start" to proceed with the inch pedal calibration.

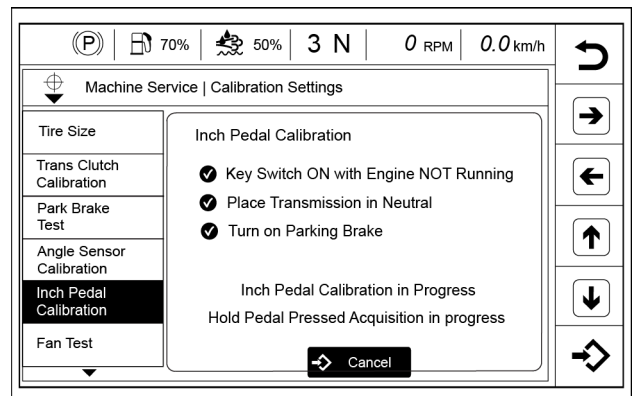


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Inch pedal calibration is in progress

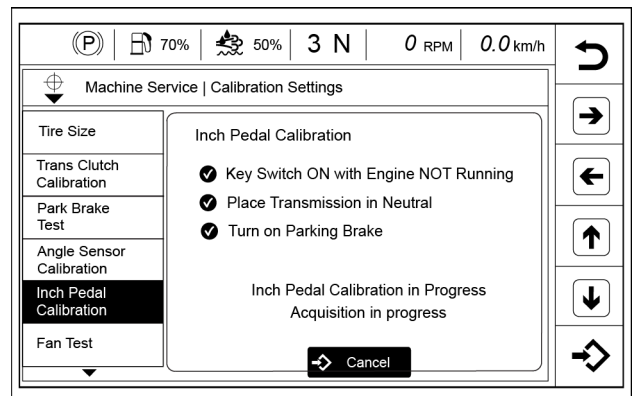
Press the service brake pedal

Hold the service brake pedal pressed for acquisition



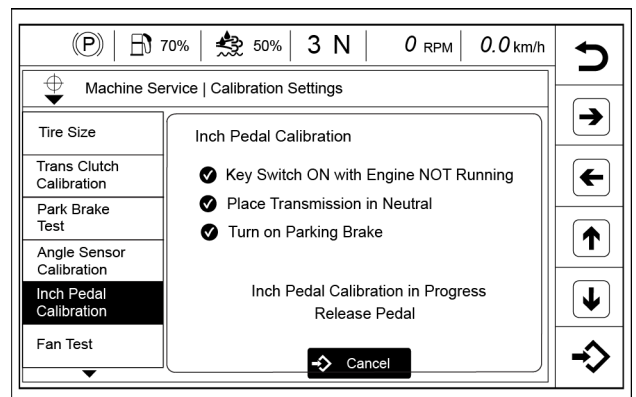
LEIL17WHL1640AA 70

Acquisition is in progress



LEIL17WHL1641AA 71

Release the service brake pedal



LEIL17WHL1642AA 72

Display	Description	Corrective Action
DEF/AdBLUE® Level, Tank EMPTY, Power Limited	DEF/AdBLUE® level is less than 5% of tank volume (0% will be displayed). Up to 65% torque reduction and 40% engine speed reduction within 40 min of engine running time.	Refill DEF/AdBLUE® immediately and reset the system by cycling the key switch OFF then ON.
DEF/AdBLUE® Level, Tank EMPTY, Ext. Power Lim	When the tank has reached 0% level, there is a 50% torque reduction, and engine speed is limited to low idle within an additional 30 min of engine run time.	Refill DEF/AdBLUE® immediately and reset the system by cycling the key switch OFF then ON.
Poor DEF/ AdBLUE® Quality Detected Power Limited	DEF/AdBLUE® quality/concentration is questionable 60 min after the initial warning. Up to 65% torque reduction and 40% engine speed reduction within 40 min of engine running time.	Drain DEF/AdBLUE® tank, clean and refill with approved DEF/AdBLUE® solution. Contact your local authorized dealer if failure persists. NOTE: see “DEF/AdBLUE® tank refilling” section for important tank draining information.
DEF/AdBLUE® Injection Failed Ext. Power Lim	SCR fault/failure detected. Up to 65% torque reduction and 50% engine speed reduction within 30 min .	Contact your local authorized dealer for repair, cycle key, or validation re-start.

4. Heated mirror



Push the rocker switch **(4)** to turn the heated mirror function ON. This feature allows to heat the external mirrors and keeps the operator's field of vision clear of ice, frost, freezing rain.

5. Rear window defrost



Push the rocker switch **(5)** to activate the rear window defrost.

Operating in extreme temperatures

Operating the machine in hot climates

1. Keep the coolant at the correct level in the coolant reservoir and in the radiator.
2. Use the correct solution of ethylene glycol and water in the cooling system.
3. Check the cooling system cap before hot weather starts. Replace the cap as required. Replace with a genuine replacement part to insure the correct PSI rated cap.
4. Clean all dirt and debris from the radiator, cooler, and engine area.
5. Check the condition of the engine accessory drive belt.
6. Use lubricants of the correct viscosity. See Fluids and lubricants in Chapter 7 – Maintenance.
7. Check battery fluid levels.

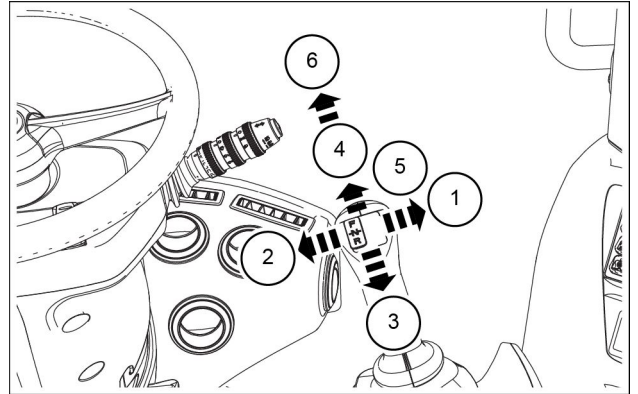
Control levers

Two function valve - one control lever (joystick)

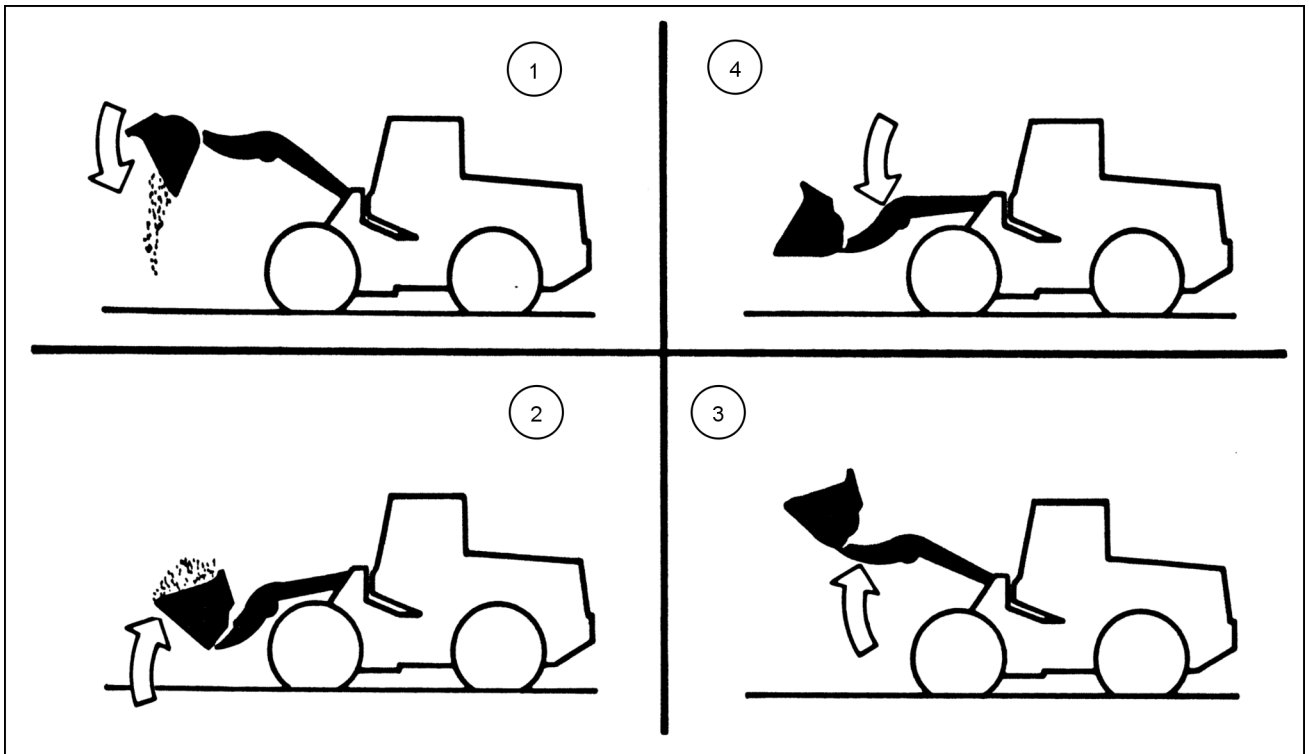
NOTE: this page shows the basic joystick positions.

See "Loader functions" - Chapter 4 in this manual for return-to-dig, bucket height control, return-to-travel and float functions.

1. Dump bucket
2. Rollback bucket
3. Raise lift arms
4. Lower lift arms
5. Hold (central position) - The loader arms and bucket will not move when the control lever is in the hold position. When released, the joystick will automatically return to the hold position.
6. Float - When in the float position, the loader bucket floats across the rough ground.



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RCPH10WHL045BAH 2

5 - TRANSPORT OPERATIONS

Recovery transport

Safety rules

⚠ WARNING

Crushing hazard!
Engage the safety lock link before service or transport.
Failure to comply could result in death or serious injury.

W0154A

⚠ WARNING

Driving hazard!
Know all rules, regulations, laws, and required safety equipment for transporting or operating this machine on a road or highway. See your dealer to obtain a rotating beacon, backup alarm, Slow Moving Vehicle (SMV) emblem, and other safety equipment.
Failure to comply could result in death or serious injury.

W0154A

⚠ WARNING

Transport hazard!
The machine can slip or fall from a ramp or trailer. Make sure the ramp and trailer are not slippery. Remove all oil, grease, ice, etc. Move the machine on or off the trailer with machine centered on the trailer or ramp.
Failure to comply could result in death or serious injury.

W0152A

⚠ WARNING

Transport hazard!
Always use the primary steering when loading or unloading the machine for transport. Do not use joystick steering when loading or unloading the machine from a truck or trailer.
Failure to comply could result in death or serious injury.

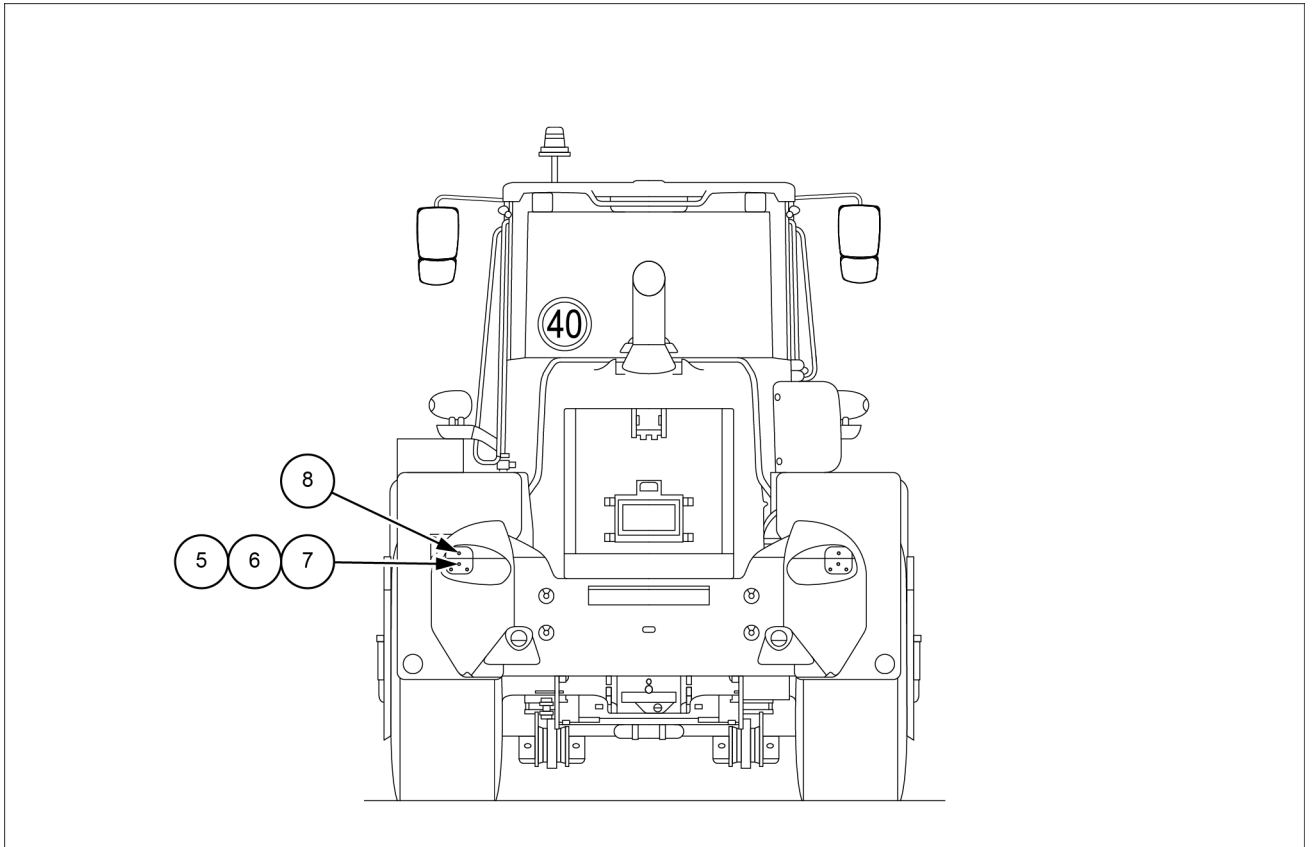
W0448A

Make sure you know the safety rules and regulations before transporting the machine. You must know the rules or laws for transportation and safety that are used in each

area that you will be in. Make sure that the truck and machine are equipped with the correct safety equipment.

Lights and visual signal lights (LED lights) for machine with the counterweight made in pressed steel with concrete filling

NOTE: the picture below shows only the lights and visual lights which differ from the conventional lights.



LEIL17WHL1328FB 5

- 5. Rear position
- 6. Rear red reflectors

- 7. Stop lights
- 8. Rear turn lights

Moving a disabled machine

⚠ WARNING

Misuse hazard!

Towing is a delicate maneuver that is always carried out at the risk of the user. The manufacturer's warranty does not apply to incidents or accidents that occur during towing. Where possible, carry out the repairs at the site.

Failure to comply could result in death or serious injury.

W0286A

⚠ DANGER

Loss of control hazard!

Make sure you use a towing vehicle with adequate weight. Towing with an underweight vehicle could cause a loss of control during transport or braking. Calculate the minimum towing vehicle weight required as instructed in this manual.

Failure to comply will result in death or serious injury.

D0049A

Engine stalls while traveling

The operator can apply the brakes by pressing the pedal for four or five applications until the accumulator is discharged. The operator must limit the use of the brakes in this situation. If the brakes cannot be applied by the pedal, apply the parking brake.

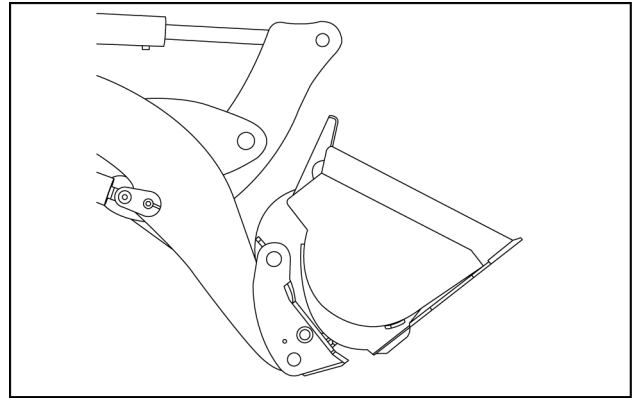
The steering effort increases when the hydraulic system loses power. If the engine stalls while traveling, park the loader in a safe position and find the problem.

Engine or hydraulic failure

If your machine is disabled, you must judge if the machine can be moved without further damage. If possible, repair the machine at the job location.

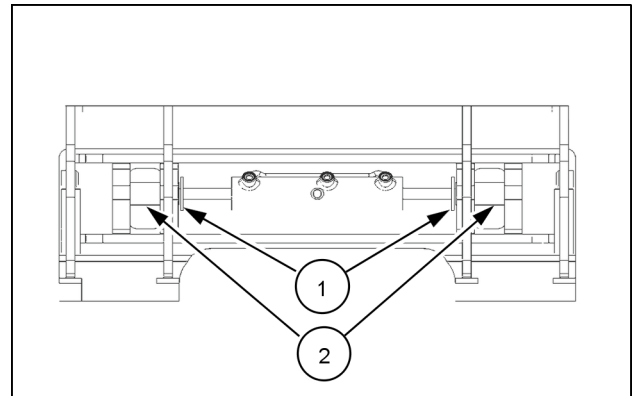
If you cannot repair the machine at the job location and if you have a transport trailer, park the trailer as close as possible to the machine.

4. Roll back the coupler with attachment to align the attachment pin holes with coupler locking pins.



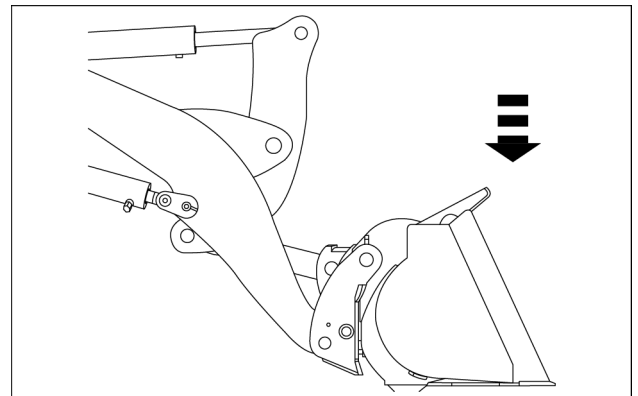
LEIL15WHL1831AA 3

5. Press the coupler engagement button to extend the locking pins. Once the locking pins are fully extended, the red light goes out and the green light turns on.
6. Maintain the coupler in rollback position. Position the red coupler locking visual indicators (1) in your full field of view. Verify and ensure the coupler locking pins (2) are fully extended.



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7. Lower the attachment and roll the front end toward the ground. Apply downward pressure to ensure the attachment is securely locked.



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7 - MAINTENANCE

General information

Servicing

⚠ WARNING

Improper operation or service of this machine can result in an accident. Read and understand the **SAFETY INFORMATION** Section before you perform any maintenance, service, or repairs. Read and understand the specific service procedures for the components you plan to work with before you start servicing the machine. Failure to comply could result in death or serious injury.

W0138A

⚠ WARNING

Personal Protective Equipment (PPE) required. When assembling, operating, or servicing the machine, wear protective clothing and PPE necessary for the particular procedure. Some PPE that may be necessary includes protective shoes, eye and/or face protection, hard hat, heavy gloves, filter mask, and hearing protection. Failure to comply could result in death or serious injury.

W0353A

⚠ CAUTION

Burn hazard!
Wait for all components to cool before performing any operation. Failure to comply could result in minor or moderate injury.

C0053A

NOTICE: clearly mark the connectors before unplugging. Clean the pipes and the connectors before the disassembly.

Presence of **DEF/ADBLUE®** crystallization on the pipe or on the cover of the filter is not allowed.

Remove **DEF/ADBLUE®** crystallization with water and a brush.

Usage of hammer or pincers are not allowed for the disassembly of the connector.

Follow the maintenance intervals by checking the hour meter every day. Before starting maintenance, park the machine on flat, firm ground, away from any obstacles, with the bucket/attachment on the ground. Keep all unauthorized personnel clear of the area. Unless otherwise specified, carry out all maintenance operations with:

- the engine stopped
- the machine parked on a firm, level surface
- the transport/service link locked into position to stop the machine from unexpected articulation
- the parking brake engaged
- the key removed from the key switch
- a "DO NOT OPERATE" tag on the key switch
- wheel chocks blocking the wheels
- all circuits cooled down prior to starting work

- all hydraulic pressure released in lift arm and bucket/attachment circuits
- any accumulator pressure released for the appropriate circuit

Clean the grease fittings before lubrication. Clean around plugs and filler holes before adding fluid. No dust or dirt must enter the components or the circuits. Wear suitable clothing and remember to use the necessary safety equipment.

When performing service work on the machine, place a "DO NOT OPERATE" tag on the instrument panel or the key switch. Turn off the engine and remove the key before leaving the operator's compartment.

Any modification to this machine without prior authorization could cause serious injury. Do not make any modifications without authorization. Consult your dealer.

The service intervals in this chapter refer to normal operating conditions. During the first operation period of a new machine (100 initial hours) or rebuilt component and under particularly severe conditions, carry out the service intervals more frequently.

NOTICE: take particular care to replace all filters regularly. Clean filters mean longer engine running life.

NOTICE: oils and fluids must be disposed of properly.

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Front and rear axle oil viscosity/Temperature range

CASE AKCELA TRANSAXLE FLUID 80W-140									
-40 °C -40 °F	-30 °C -22 °F	-20 °C -4 °F	-10 °C 14 °F	0 °C 32 °F	10 °C 50 °F	20 °C 68 °F	30 °C 86 °F	40 °C 104 °F	50 °C 122 °F

Hydraulic oil – Brake oil viscosity/Temperature range

CASE AKCELA HYDRAULIC EXCAVATOR FLUID									
-40 °C -40 °F	-30 °C -22 °F	-20 °C -4 °F	-10 °C 14 °F	0 °C 32 °F	10 °C 50 °F	20 °C 68 °F	30 °C 86 °F	40 °C 104 °F	50 °C 122 °F

Biodegradable hydraulic oil viscosity/Temperature range

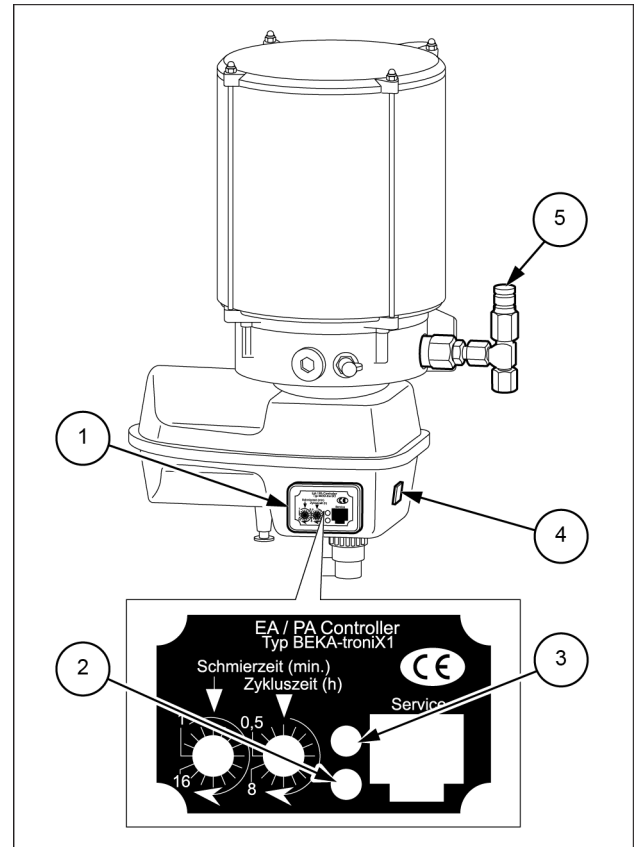
Hydraulic biodegradable oil									
-40 °C -40 °F	-30 °C -22 °F	-20 °C -4 °F	-10 °C 14 °F	0 °C 32 °F	10 °C 50 °F	20 °C 68 °F	30 °C 86 °F	40 °C 104 °F	50 °C 122 °F

NOTE: the hydraulic system must be warmed up before commencing work. Warm up the hydraulic system for approximately **10 min**, with the engine at half-speed and repeated actuation of all control valves.

When the key is turned to ON position, the green and red LED's **(2)**, **(3)** on the control panel **(1)** of the pump light on. After about **1.5 s**, both lights go off to confirm the correct operation of the system.

NOTICE: do not act on the control panel of the pump; this may cause an incorrect setting of the lubrication system.

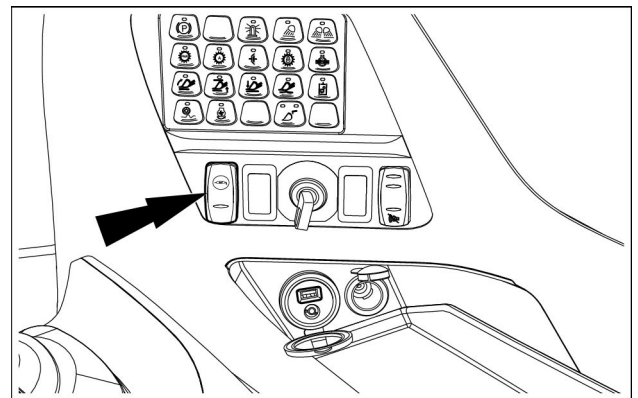
When the lubrication cycle starts, the green LED lights on and stays on during the whole cycle until it ends. If the engine shuts down during a lubrication cycle, the integrated electronic controller records the elapsed time so that once the engine starts, the greasing can start again and proceed for the remaining time.



LEIL17WHL1614BB 7

The operator can manually start a new lubrication cycle at any time, by pressing the automatic lubrication button located on the right-hand console in cab. The controller will set the next automatic greasing cycle from the latter.

NOTE: the same function can be performed by pressing the button **(4)** located on the greasing pump.



LEIL17WHL1592AB 8

Automatic lubrication system faults:

- the ignition of the red LED on the control panel indicates faults in the system;
- the leakage of grease from the pressure relief valve **(5)** indicates a potential obstruction of the system.

In both cases, contact immediately your authorized dealer.

7 - MAINTENANCE

Case Construction		
Country	Toll Number	Spoken Language
Luxembourg (00352)	0044 2030245588	English
Denmark (0045)	0044 2030245588	English
Netherlands (0031)	0044 2030245588	English
Portugal (00351)	0044 2030245588	English
Poland (0048)	0044 2030245588	English
Norway (0047)	0044 2030245588	English
Sweden (0046)	0044 2030245588	English
Finland (00358)	0044 2030245588	English
Iceland (00354)	0044 2030245588	English
Estonia (00372)	0044 2030245588	English
Latvia (00371)	0044 2030245588	English
Lithuania (00370)	0044 2030245588	English
Czech Republic (00420)	0044 2030245588	Czech
Slovakia (00421)	0044 2030245588	English
Slovenia (00386)	0044 2030245588	English
Croatia (00385)	0044 2030245588	English
Republic of Serbia (00381)	0044 2030245588	English
Bosnia & Herzegovina (00387)	0044 2030245588	English
Albania (00355)	0044 2030245588	English
Macedonia (00389)	0044 2030245588	English
Greece (0030)	0044 2030245588	English
Bulgaria (00359)	0044 2030245588	English
Romania (0040)	0044 2030245588	English
Hungary (0036)	0044 2030245588	English
Cyprus (00357)	0044 2030245588	English
Malta (00356)	0044 2030245588	English
Switzerland (0041)	00800 2273 7373	German French Italian

MANUFACTURER'S WARRANTY COVERAGE:

The 2014 and later heavy-duty off-road engines are warranted for 5 years or 3000 hours, whichever comes first. If any emission-related part on your engine is defective, the part will be repaired or replaced by FPT Industrial S.p.A.

OWNER'S WARRANTY RESPONSIBILITIES:

- As the off-road engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. FPT Industrial S.p.A. recommends that you retain all receipts covering maintenance on your off-road engine, but FPT Industrial S.p.A. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the off-road engine owner, you should however be aware that FPT Industrial S.p.A. may deny you warranty coverage if your off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- Your engine is designed to operate on Ultra Low Sulfur Diesel fuel only. Use of any other fuel may result in your engine no longer operating in compliance with California's emissions requirements.
- You are responsible for initiating the warranty process. The ARB suggests that you present your off-road engine to a FPT Industrial S.p.A. dealer as soon as a problem exists. The warranty repairs should be completed by the dealer as expeditiously as possible.

Selective Catalytic Reduction (SCR) basic instructions

Requirements

The operator must maintain appropriate **DEF/AdBLUE®** levels at all times. No additional maintenance is required.

NOTICE: *prolonged idling of the machine with no load for more than 6 h will cause damage to the SCR catalyst.*

NOTE: *see your CASE CONSTRUCTION dealer for replacement components and cleaning agents.*

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

Every 10 hours**Engine oil level - Check**

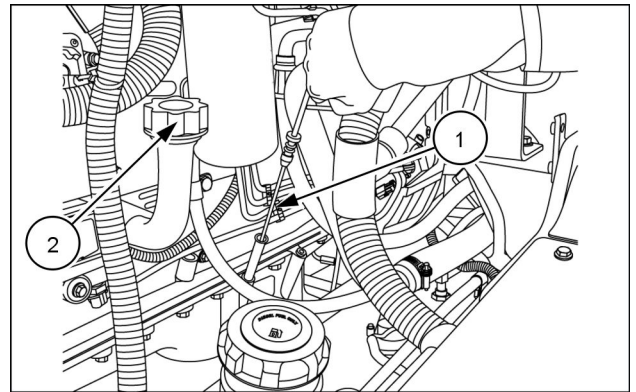
Service specifications	
Type of oil	CASE AKCELA UNITEK 10W-40
621G Capacity (with filter change)	13.25 l (14 US qt)
721G Capacity (with filter change)	13.25 l (14 US qt)

Check the engine oil level every 10 hours or each day, whichever occurs first.

The engine oil dipstick (1) is located on the right-hand side of the engine, above the fuel fill location.

1. Keep all non-authorized personnel clear of the area. Park the machine on a firm, level surface and turn off the engine. Remove the dipstick (1) to check the engine oil level. Wipe the dipstick (1) clean and reinsert. The oil level should register at the full mark.

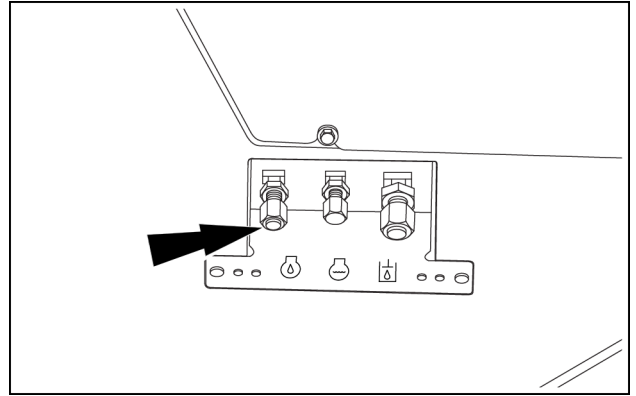
NOTE: this procedure is best performed at the beginning of the work day with the engine cool and all oil drained to the pan.



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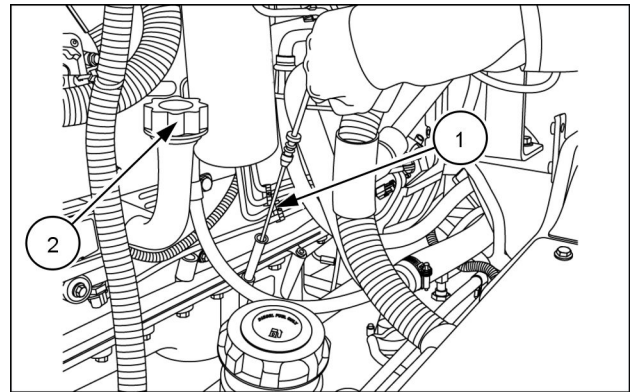
2. Locate the fill location (2) in the main engine compartment. Add **CASE AKCELA UNITEK 10W-40**, if necessary. Do not overfill engine oil.

4. Locate the engine oil remote drain. Use a suitable container to collect the used oil. Drain the engine oil completely.
5. Close the remote drain.

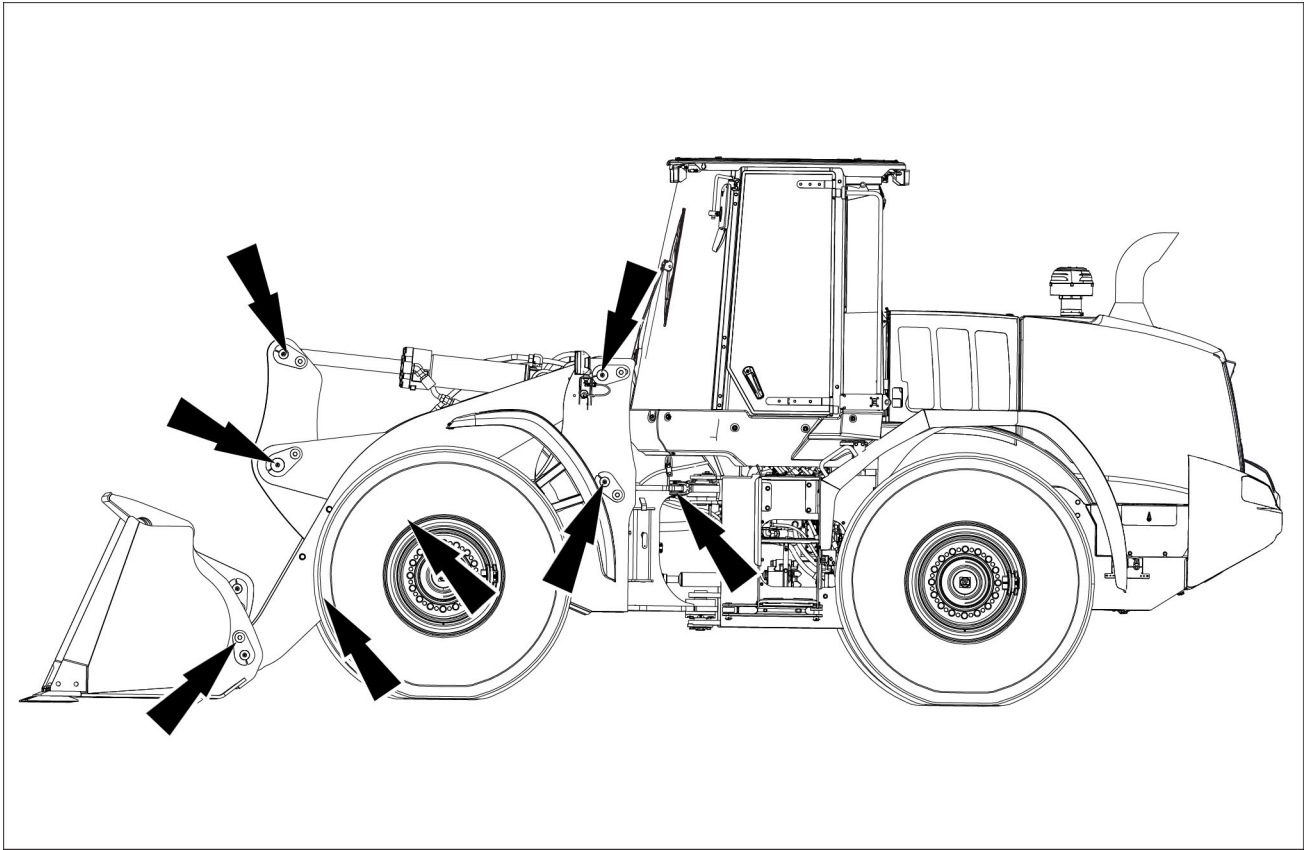


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6. Fill the engine with the proper amount of **CASE AKCELA UNITEK 10W-40** through the fill port (2).
7. Start the engine and run at idle speed. Check the engine remote drain for leak.
8. After two minutes stop the engine.
9. Wait for the engine oil to drain down for an accurate reading on the dipstick.
10. Check the dipstick (1) and add additional **CASE AKCELA UNITEK 10W-40**, if necessary.
11. Re-install the remote drain cover.
12. Secure the engine hood.

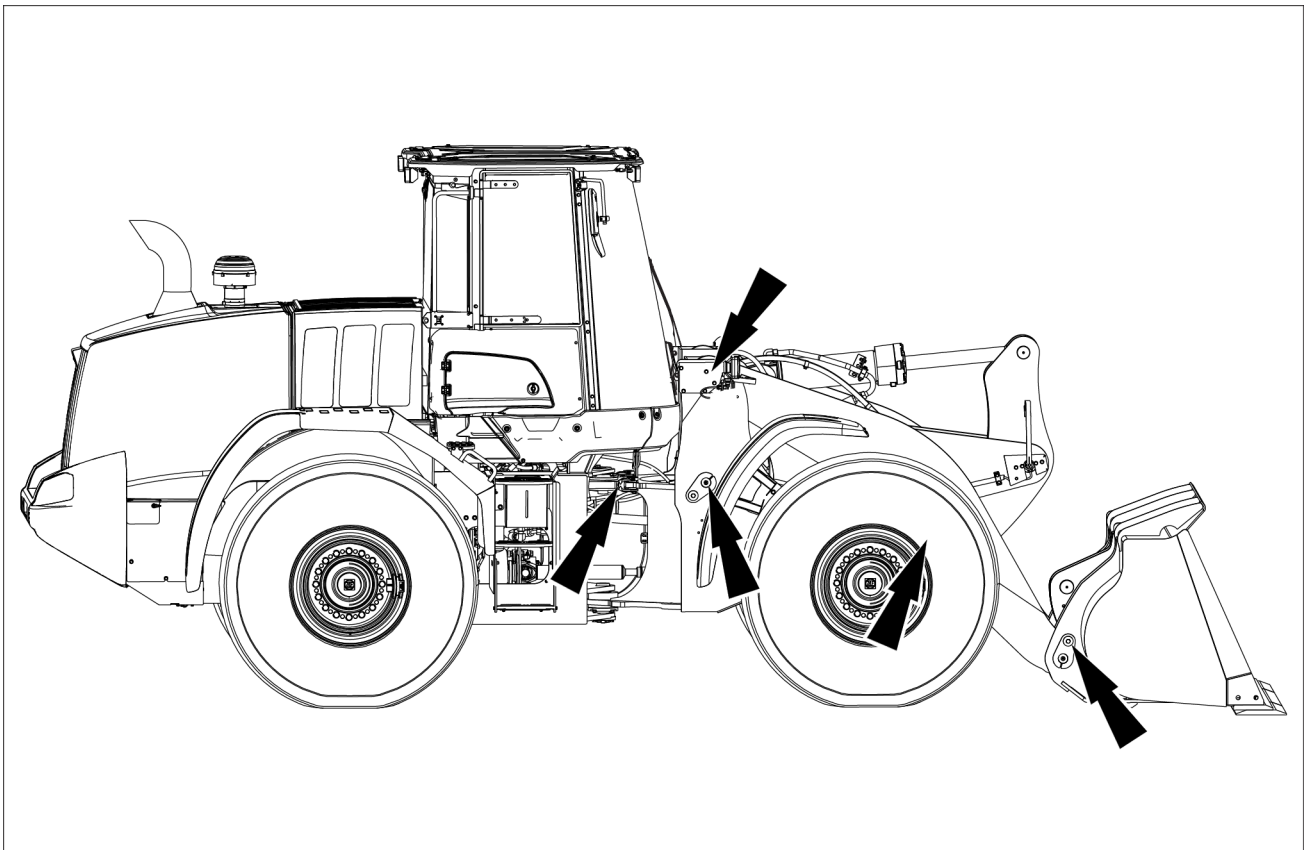


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LEIL17WHL1267FA 3

721G



LEIL17WHL1266FA 4

721G

Wheels - Tire inflating

⚠ WARNING

Explosion hazard!

Never weld on a wheel. Welding can cause stresses that will cause a wheel to crack or break unexpectedly. Tires can separate explosively during welding. Always have a qualified tire mechanic service wheels and tires.

Failure to comply could result in death or serious injury.

W0124A

Tire service

621G Service specifications - Normal Work Tire Inflations		
Tire type	Front pressure	Rear pressure
20.5 R25 L2 Bias	3.4 bar (50.0 psi)	2.8 bar (40 psi)
20.5 R25 L3 Bias	3.4 bar (50.0 psi)	2.8 bar (40 psi)
20.5 R25 L2 Radial	3.4 bar (50.0 psi)	2.8 bar (40 psi)
20.5 R25 L3 Radial	3.4 bar (50.0 psi)	2.8 bar (40 psi)
23.5 R25 L5	3.4 bar (50.0 psi)	2.8 bar (40 psi)
620/70 R26	5.0 bar (72.5 psi)	3.5 bar (50.8 psi)
750/55 R26.5	4.3 bar (62.3 psi)	3.0 bar (43.5 psi)

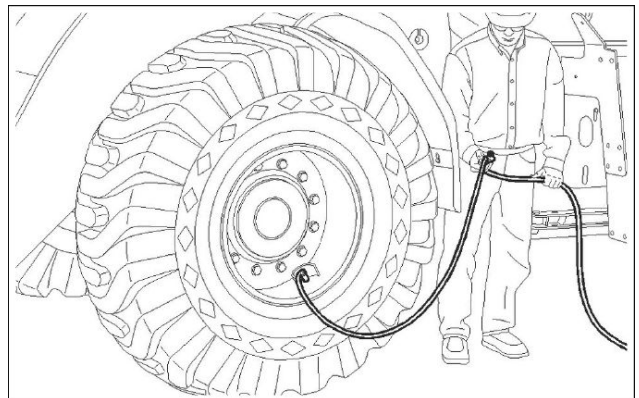
721G Service specifications - Normal work tire inflations		
Tire type	Front pressure	Rear pressure
20.5 R25 L2 Bias	3.4 bar (50.0 psi)	2.8 bar (40 psi)
20.5 R25 L3 Bias	3.4 bar (50.0 psi)	2.8 bar (40 psi)
20.5 R25 L2 Radial	3.4 bar (50.0 psi)	2.8 bar (40 psi)
20.5 R25 L3 Radial	3.4 bar (50.0 psi)	2.8 bar (40 psi)
20.5 R25 L5 Radial (XLD-D2)	3 bar (43.5 psi)	2.25 bar (32.6 psi)
20.5 R25 L5 Radial (X-MINE-D2)	3.75 bar (54.4 psi)	2.75 bar (39.9 psi)
600/65 R25 L3	3 bar (43.5 psi)	2 bar (29 psi)
620/70 R26	5.0 bar (72.5 psi)	3.5 bar (50.8 psi)
750/55 R26.5	4.3 bar (62.3 psi)	3.0 bar (43.5 psi)
750/65 R26	2.75 bar (39.9 psi)	2 bar (29 psi)

NOTE: for continuous operation at maximum travel speed, consult tire manufacturer for limitations on total distance traveled per hour.

Keep all non-authorized personnel clear of the area. Park the machine on level ground, in neutral with the parking brake applied and the attachment lowered to the ground.

To add air to a tire:

1. Use an air hose with a remote shut-off valve and a self-locking air chuck. Put the tire in a restraining cage.
2. Stand BEHIND the tread of the tire and make sure ALL personnel are away from the side of the tire before you start.
3. Inflate the tire to the recommended air pressure. DO NOT inflate the tire more than the recommended pressure.



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Fuel filter - Replace

⚠ WARNING

Fire hazard!

When handling diesel fuel, observe the following precautions:

1. Do not smoke.
2. Never fill the tank when the engine is running.
3. Wipe up spilled fuel immediately.

Failure to comply could result in death or serious injury.

W0099A

Change the fuel filter every 500 hours or more frequently when operating conditions are severe.

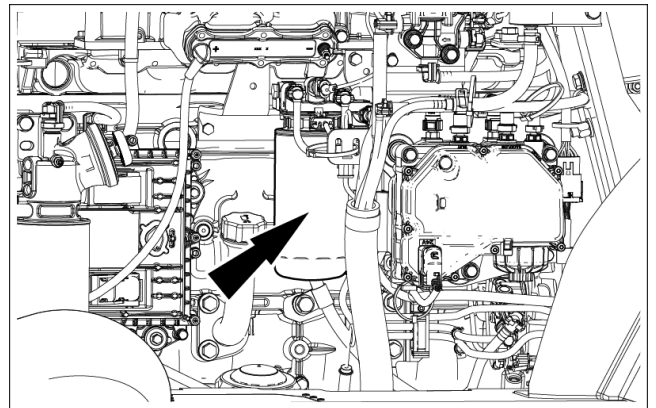
Clean the filter head area, the outside of the filter and remove any dirt and debris around the area that might contaminate the system.

Prior operation:

Keep all non-authorized personnel clear of the area. Park the machine on level ground, in neutral with the parking brake applied and the attachment lowered to the ground.

1. Install the transport/service link into the locked position.
2. Turn the filter counterclockwise and remove. Be sure to capture any fuel remaining in the lines or the filter and discard properly.
3. Apply a thin layer of clean oil to the gasket on the new filter.
4. Fill the new filter with fuel. Install the new filter. Use your hands to tighten the filter 1/2 to 3/4 turn after the filter makes contact with the filter head.
Bleed air from the fuel system.

NOTICE: never use a filter wrench to install a new filter.



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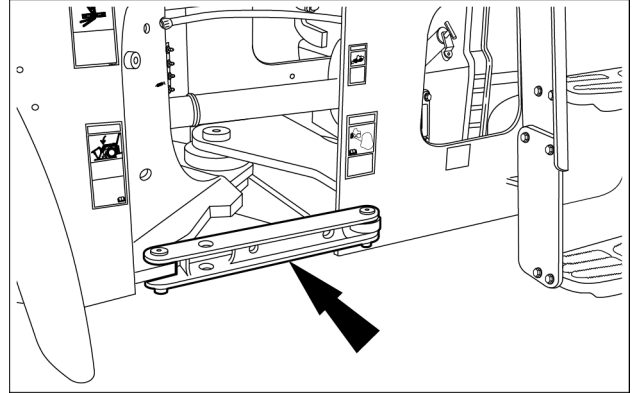
Selective Catalytic Reduction (SCR) in-line filter - Cleaning

Clean the in-line supply filter every 500 hours or more often if conditions so require. The supply line has a small mesh filter within the line.

Prior operation:

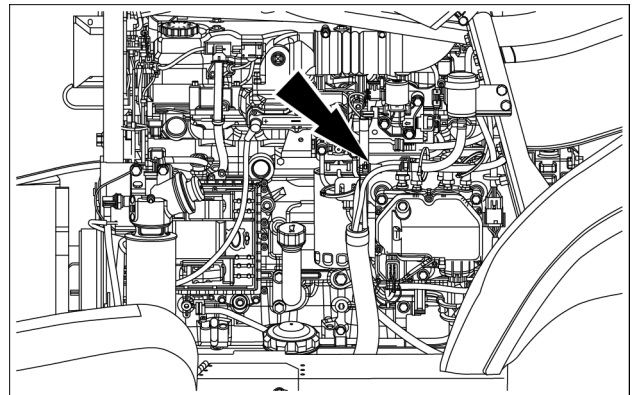
Keep all non-authorized personnel clear of the area. Park the machine on level ground, in neutral with the parking brake applied and the attachment lowered to the ground.

1. Lower the bucket/attachment to the ground and install the transport/service link into the locked position.



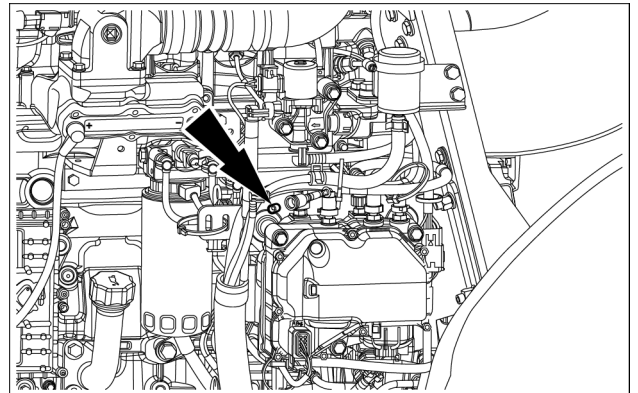
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2. Open the engine compartment. The in-line supply filter is located on the right-hand side of the machine directly above the Supply Module.



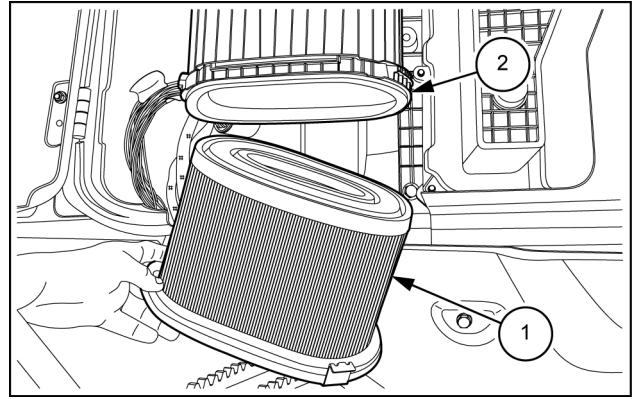
LEIL14WHL0012AA 2

3. Use a suitable container to catch any fluid that is discharged during hose and filter disassembly. Clean the area before disassembly. Disconnect the supply line by squeezing the tabs on the connection and separate the lines.
4. Using needle nose pliers, remove the filter using care not to damage or bend filter. If the fitting does not release easily, reclean the fitting with compressed air. Direct the compressed air down into the fitting, then squirt water into the fitting to lubricate the O-ring.
5. Inspect the filter housing and rinse with water. If the filter is damaged, replace the filter.
6. Reinstall the filter into the supply line and reconnect the lines.
7. Start the engine and run at idle speed. Check for leaks.



LEIL14WHL0014AB 3

4. Extract the main filter element **(1)** from the filter housing **(2)**.



LEIL15WHL0567AB 4

5. Discard the main filter element.
6. Wipe the inside of the filter housing.
7. Install a new main filter element into the filter housing.
8. Secure the filter grid assembly to the filter housing.
9. Close the right-hand door.

Biodegradable hydraulic oil (if used) - Change

⚠ WARNING

Chemical hazard!

When handling fuel, lubricants, and other service chemicals, follow the manufacturer's instructions. Wear Personal Protective Equipment (PPE) as instructed. Do not smoke or use open flame. Collect fluids in proper containers. Obey all local and environmental regulations when disposing of chemicals.

Failure to comply could result in death or serious injury.

W0371A

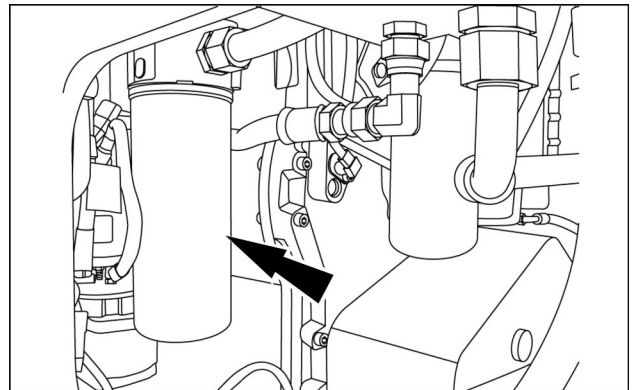
Change the biodegradable hydraulic oil (if used) every 2000 hours of operation or more frequently when operating conditions are severe.

Prior operation:

Keep all non-authorized personnel clear of the area. Park the machine on a firm, level surface, lower bucket/attachment to the ground and apply the parking brake.

Service specifications	
Biodegradable hydraulic oil	
621G total system capacity	147.6 L (39 US gal)
721G total system capacity	177.8 L (47 US gal)

1. Bring the hydraulic system to the operating temperature.
2. Retract all the hydraulic cylinders.
3. Place the transport/service link into the locked position to prevent unexpected articulation movements.
4. Remove the remote drain cover to access the hydraulic oil drain.
Open the hydraulic reservoir. Drain and pump the biodegradable hydraulic. See also **Hydraulic oil - Change**.
5. Change the return flow filter.

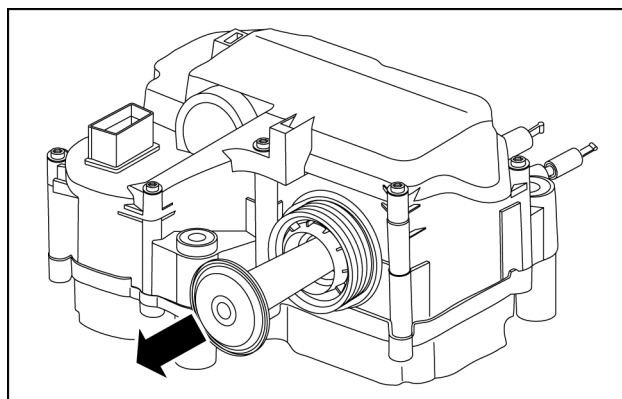


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6. Fill the hydraulic reservoir with new biodegradable hydraulic oil.
7. Check that the biodegradable hydraulic oil decals applied to the cab door and hydraulic oil reservoir are visible – see “Safety signs” section in Chapter 2 of this manual for decal locations.

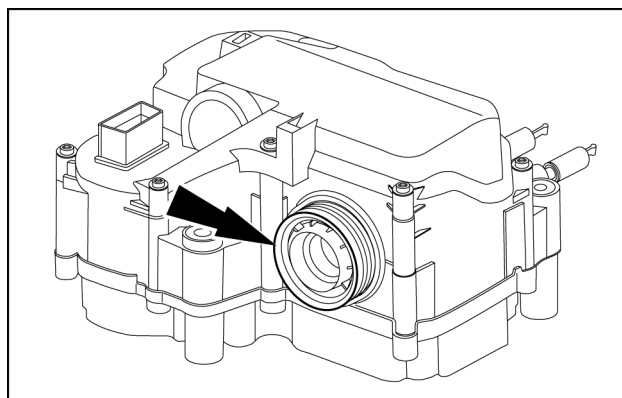
- Remove the equalizing element from the center of the filter. Discard the equalizing element following local environmental and waste regulations.

NOTICE: prevent contamination or damage of the sealing surface on the housing.



LEIL15WHL0043AB 4

- Observe the color of the filter (gray or black).

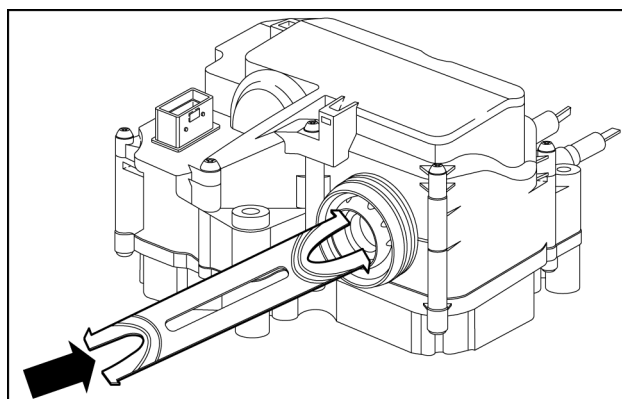


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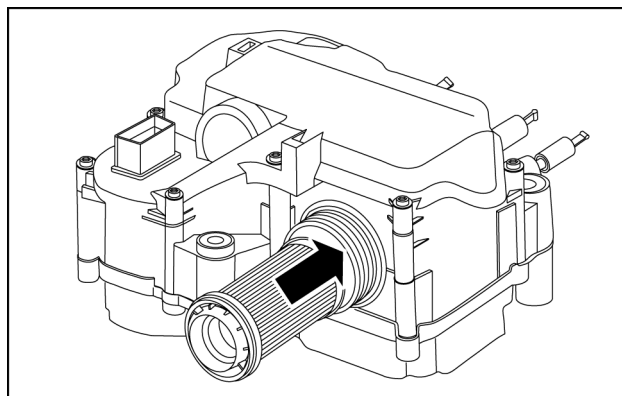
- Insert the corresponding marked end of the filter removal tool, which belongs to the kit of the filter spare parts, until a click is felt or heard, indicating that the tool is completely inserted.
- Pull the filter and the filter removal tool out by hand. If necessary, insert a tool in the filter removal tool's slot for additional leverage. Discard the filter following local environmental and waste regulations.

NOTICE: protect the filter chamber from contamination and particles.

- Clean the Supply Module's thread surfaces and the internal filter housing surface with water.
- Oil the O-rings of the new filter and insert them into the supply module housing. FL Petronas Hidrobak ISO VG 10 oil is recommended.

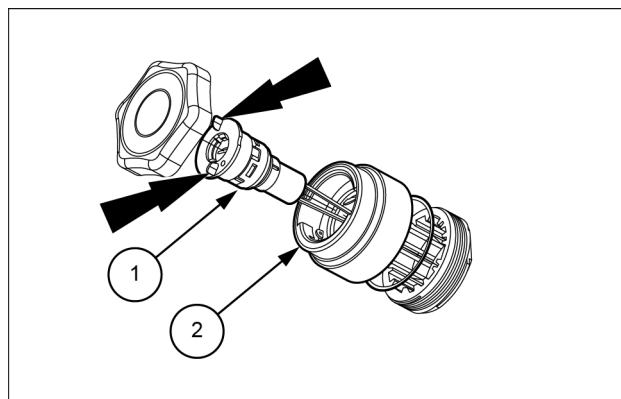


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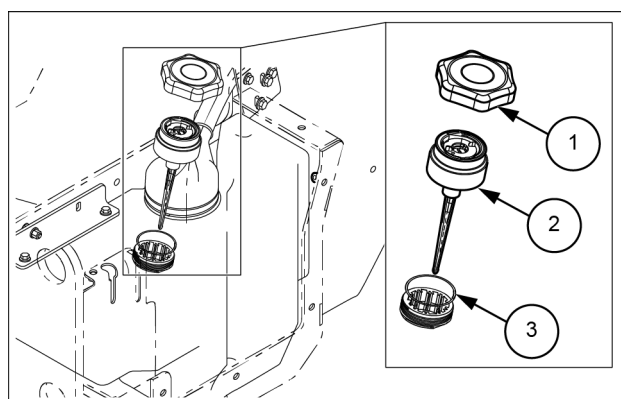
LEIL15WHL0045AB 7

4. Press and turn on the two fins (arrows) to remove the **DEF/AdBLUE®** tank filter (1) from the twist filler neck (2).
Clean the **DEF/AdBLUE®** tank filter (1) with water to remove any debris and reinstall the **DEF/AdBLUE®** tank filter (1).



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5. Reinstall the O-ring (3) on the **DEF/AdBLUE®** tank neck with the radius surface facing up.
Reinstall the filter twist filler neck (2) and the cap (1).



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Replacing the tank filter

6. If the **DEF/AdBLUE®** tank filter has been damaged, replace the **DEF/AdBLUE®** tank filter as described in the previous steps.

NOTE: the urea quality sensor on the bottom of the **DEF/AdBLUE®** tank can be removed to drain fluid as necessary. When removing the urea quality sensor, it is recommended that the electrical harness should not be disconnected from the urea quality sensor. The urea quality sensor should be cleaned by flushing with deionized water before re-installation. Note that the sensor should not be submerged while cleaning so that water does not enter the vent located on the bottom of the sensor. Also note that if the harness was disconnected from the sensor, the electrical pins must be cleaned with electrical contact cleaner and dried before the harness is reconnected to the sensor.

Welding on the machine

▲ DANGER

Improper operation or service of this machine can result in an accident.

Any unauthorized modifications made to this machine can have serious consequences. Consult an authorized dealer on changes, additions, or modifications that may be required for this machine. Do not make any unauthorized modifications.

Failure to comply will result in death or serious injury.

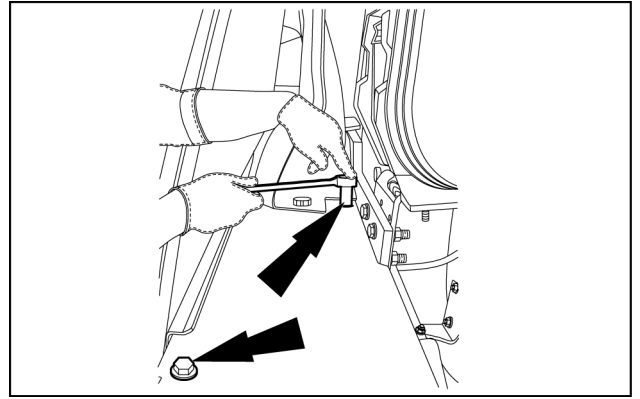
D0030A

Whenever carrying out a welding operation on the machine as authorized by the manufacturer and in accordance with manufacturer's instructions, disconnect the batteries, disconnect the alternator B+ and D+ terminal wires, and connect the welding apparatus ground cable to the component on which the welding operation is to be performed.

Always connect the welding apparatus to the same structure that is being welded.

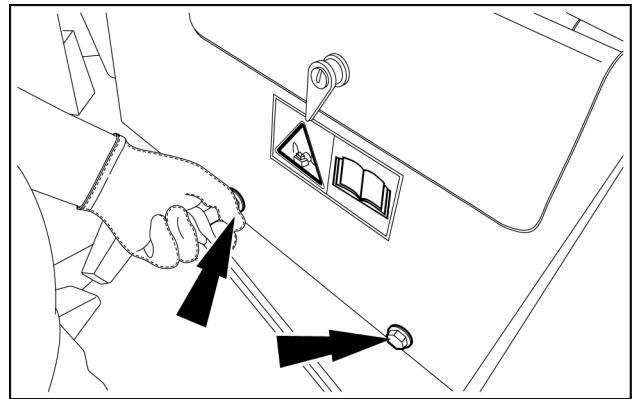
Never connect the welding apparatus ground to a component of the hydraulic system.

11. Install the upper box battery tightening the two screws.



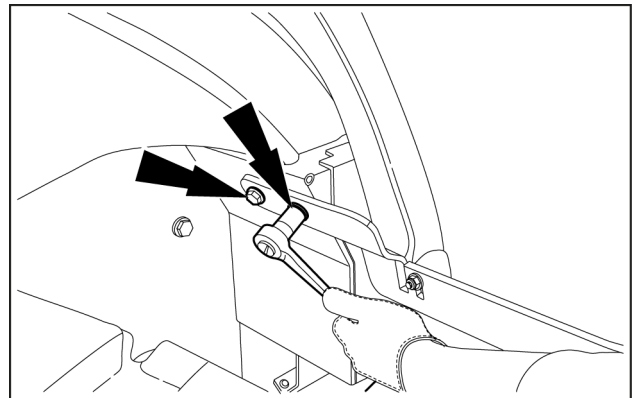
LEIL15WHL0091AB 8

12. Install the box battery tightening the two screws.



LEIL15WHL0090AB 9

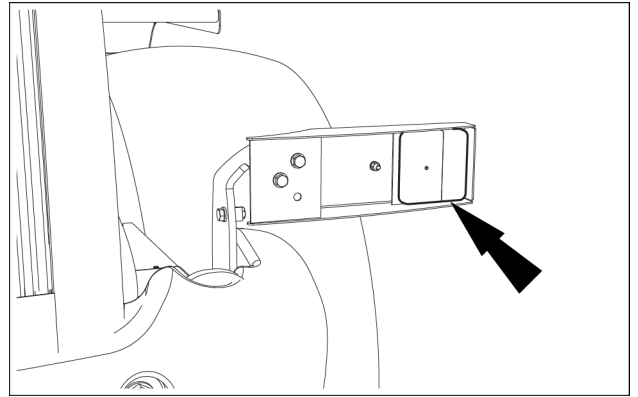
13. Install the rear wide fender on the left-hand side tightening the two screws on the left-hand fender bracket.



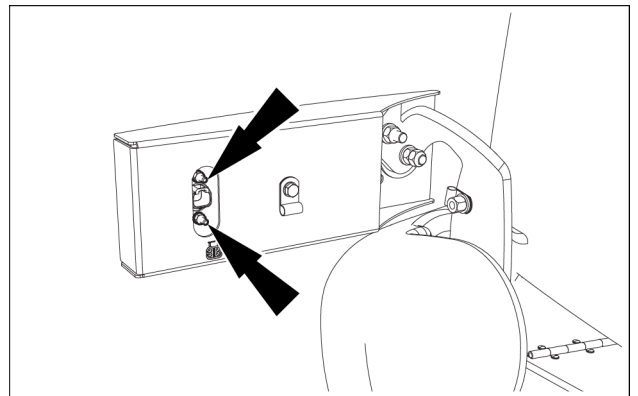
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Tail lights (LED) 621G

Disconnect the push-on connector. Remove the two nuts and washers that secure the tail light lens in place. Replace and reinstall the tail light.



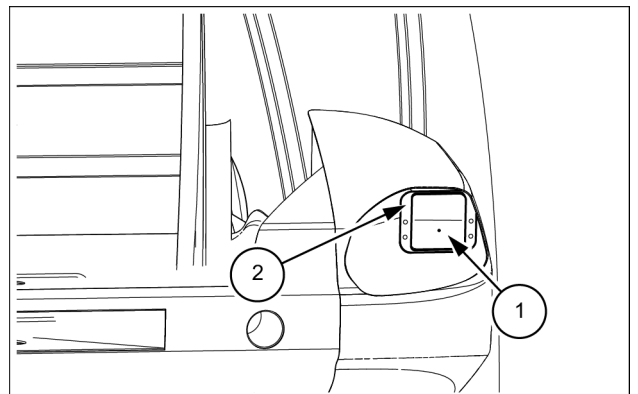
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Tail lights (LED) 721G

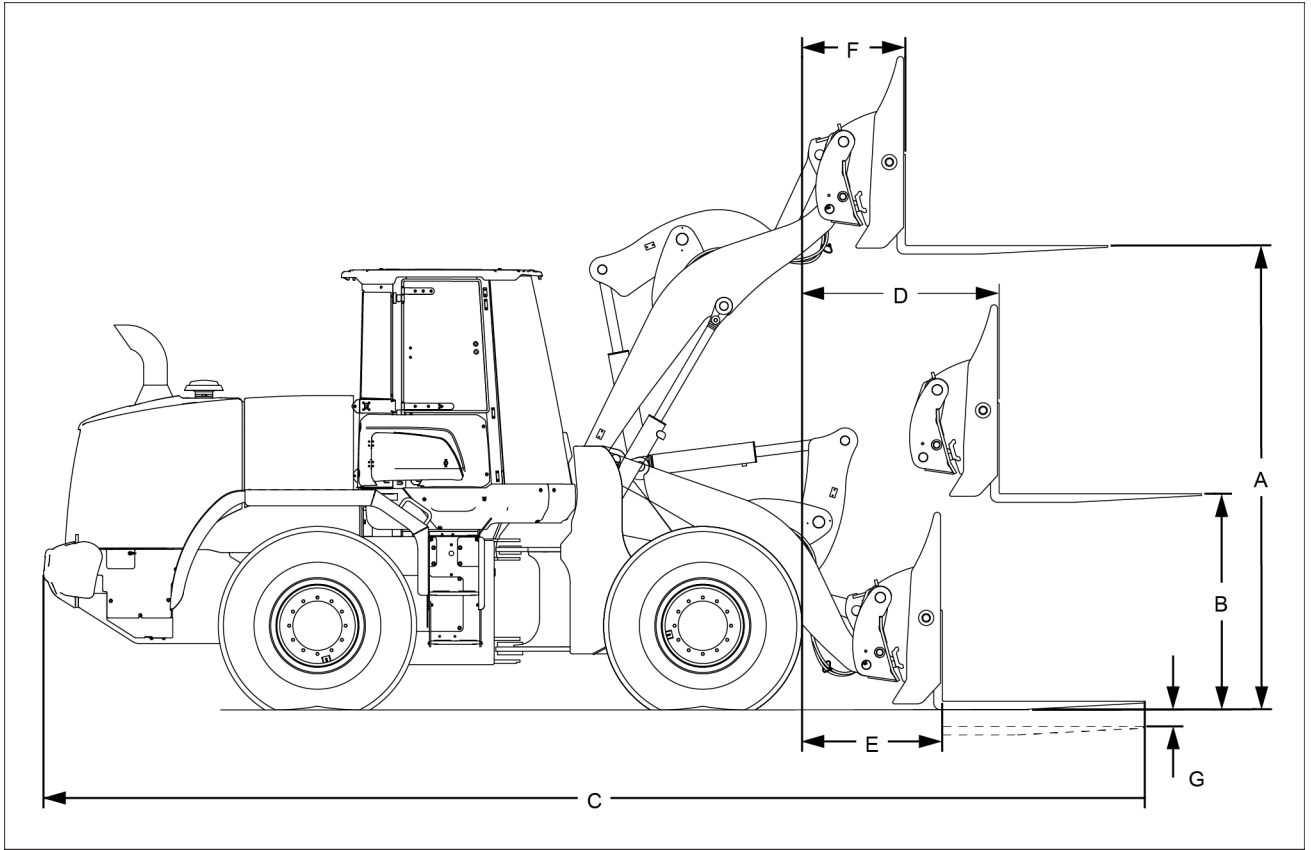
Remove the four bolts and washers that secure the tail light mounting plate (2) in the correct position on the concrete counterweight. Disconnect the push-on connector. Remove the two washers and the two nuts that secure the tail light (1) on the tail light mounting plate (2). Replace the tail light (1) with a lamp of same wattage and reinstall the tail light.



LEIL17WHL1078AB 12

721G Model**721G Engine Specifications**

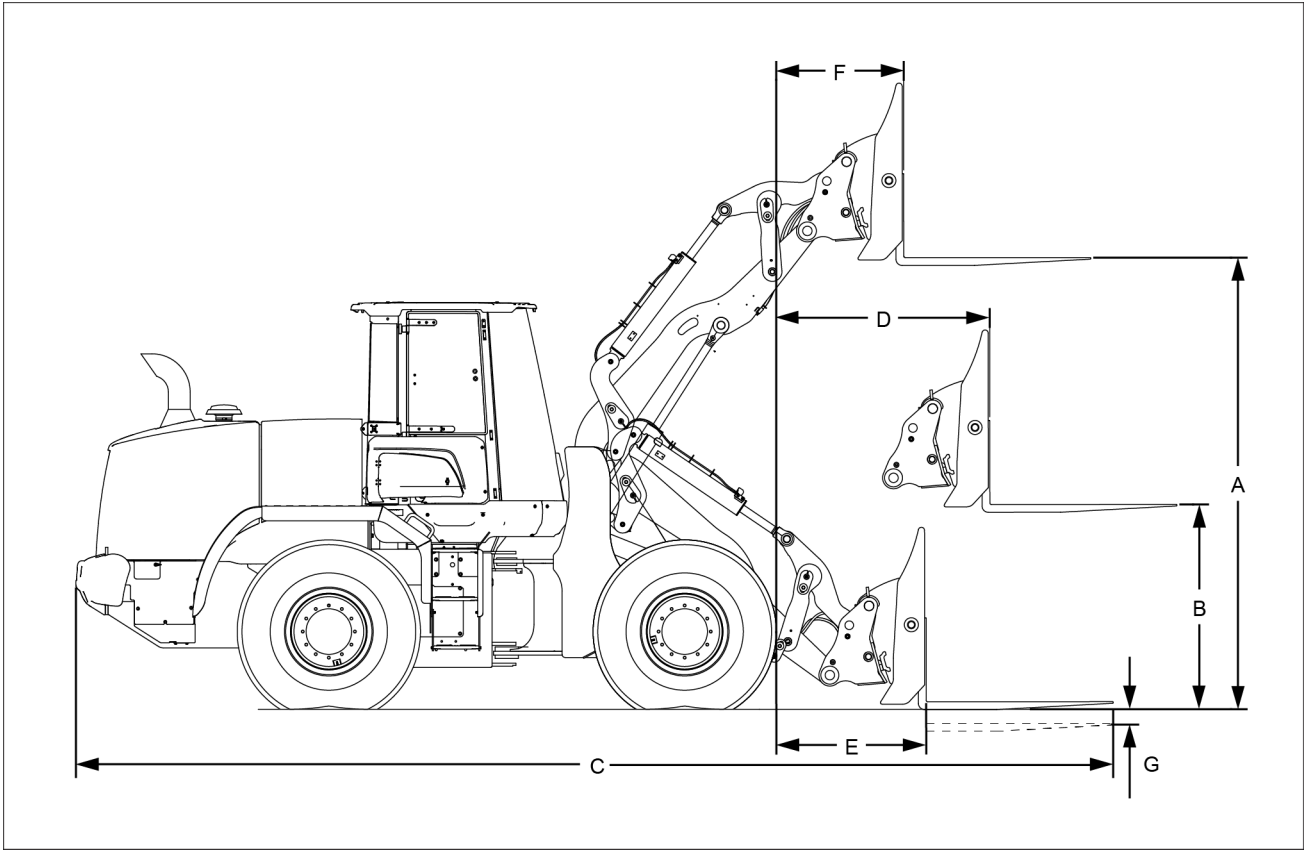
Model	FPT F4HFE613T, TIER 4B certified
Type	4-stroke, turbocharged, air-to-air cooled
Cylinders	6
Bore / Stroke	104 mm (4.09 in) x 132 mm (5.20 in)
Displacement	6.7 l (411 in³)
Fuel Injection	Electronic
Horsepower	
Maximum power (rated/peak)	
Gross	145 kW (195 Hp) @ 2000 RPM
Net	133 kW (179 Hp) @ 2000 RPM
Standard power (peak)	
Gross	131 kW (176 Hp) @ 1700 RPM
Net	121 kW (163 Hp) @ 1600 RPM
Economy power (peak)	
Gross	109 kW (147 Hp) @ 1400 RPM
Net	103 kW (138 Hp) @ 1400 RPM
Torque (maximum)	
Standard power range	
Gross	841 N·m (620 lb ft) @ 1300 RPM
Net	805 N·m (594 lb ft) @ 1300 RPM
Maximum power range	
Gross	950 N·m (701 lb ft) @ 1300 RPM
Net	914 N·m (674 lb ft) @ 1300 RPM
Economy power range	
Gross	799 N·m (589 lb ft) @ 1200 RPM
Net	768 N·m (566 lb ft) @ 1200 RPM
Economy engine speeds (4 speed and 5 speed transmissions)	
Machine idled (alternate low idle)	670 – 730 RPM
Machine idled (cold weather alternate accelerated low idle)	1270 – 1330 RPM
Electrical	
Batteries	2 - 12 V
Alternator	120 A
Voltage	24 V



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621G Z-Bar Specifications - 1.2 m (47.2 in) - Forks with Leonardi Coupler

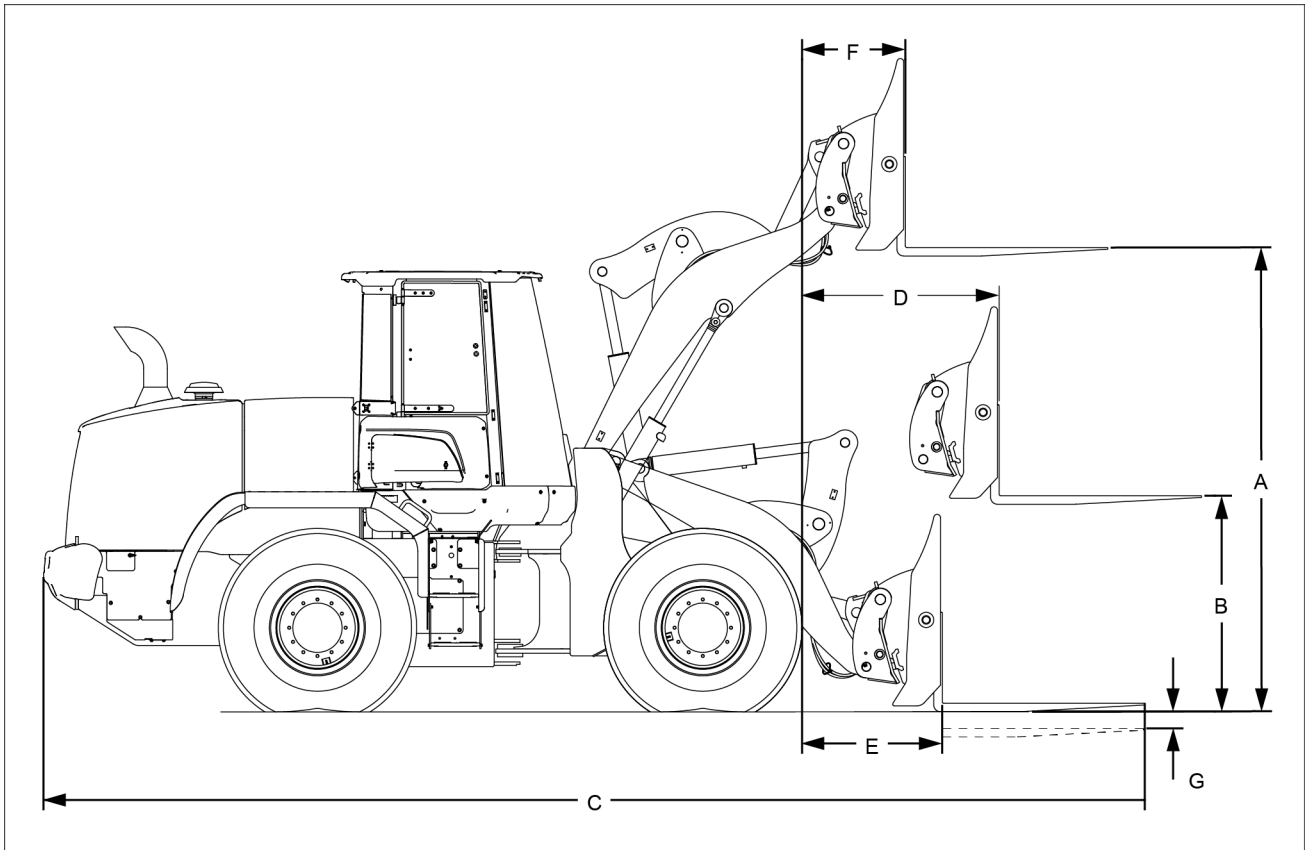
Pallet Fork	
Fork Specifications	
Fork Length	1200 mm (47.2 in)
Dimensional Outline Specifications	
A. Ground clearance at tip of shank	3630 mm (142.9 in)
B. Ground clearance at tip of fork with horizontal arm	1759 mm (69.3 in)
C. Total length (fork on ground)	7609 mm (299.6 in)
D. Front protrusion from tires with boom horizontal	1375 mm (54.1 in)
E. Front protrusion from tires with attachment on the ground	686 mm (27.0 in)
F. Front protrusion from tires at maximum height	577 mm (22.7 in)
G. Dig depth	12 mm (0.5 in)
ISO Load Specifications	
Operating Weight (without load)	12643 kg (27872 lb)
Operating load	
50% Articulation Tip, SAE J1197	3336 kg (7356 lb)
60% Articulation Tip, Rough Terrain, EN474-3	4004 kg (8827 lb)
80% Articulation Tip, Firm & Level Ground, EN474-3	5338 kg (11769 lb)
Tipping load	
Machine straight	7811 kg (17220 lb)
40° turn	6673 kg (14711 lb)



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621G XT Specifications - 1.2 m (47.2 in) - Forks with Leonardi Coupler

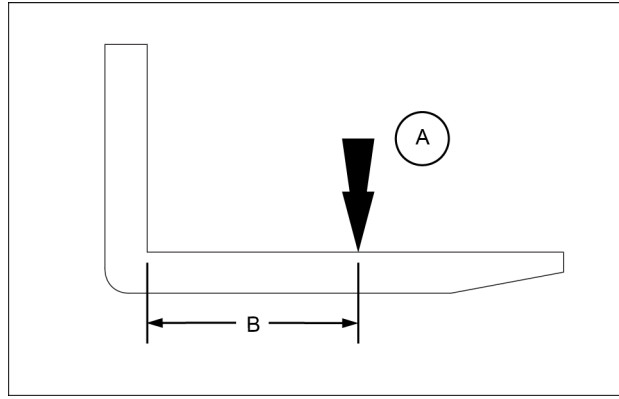
Pallet Fork	
Fork Specifications	
Fork Length	1220 mm (48.0 in)
Dimensional Outline Specifications	
A. Ground clearance at tip of shank	3710 mm (146.0 in)
B. Ground clearance at tip of fork with horizontal arm	1805 mm (71.1 in)
C. Total length (fork on ground)	7922 mm (311.9 in)
D. Front protrusion from tires with boom horizontal	1705 mm (67.1 in)
E. Front protrusion from tires with attachment on the ground	979 mm (38.5 in)
F. Front protrusion from tires at maximum height	879 mm (34.6 in)
G. Dig depth	48 mm (1.9 in)
ISO Load Specifications	
Operating Weight (without load)	12805 kg (28230 lb)
Operating load	
50% Articulation Tip, SAE J1197	2975 kg (6558 lb)
60% Articulation Tip, Rough Terrain, EN474-3	3569 kg (7869 lb)
80% Articulation Tip, Firm & Level Ground, EN474-3	4759 kg (10492 lb)
Tipping load	
Machine straight	6963 kg (15351 lb)
40° turn	5949 kg (13115 lb)



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721G Z-Bar Specifications - 1.2 m (47.2 in) - Forks with Leonardi Coupler

Pallet Fork	
Fork Specifications	
Fork Length	1220 mm (48.0 in)
Dimensional Outline Specifications	
A. Ground clearance at tip of shank	3697 mm (145.6 in)
B. Ground clearance at tip of fork with horizontal arm	1763 mm (69.4 in)
C. Total length (fork on ground)	8104 mm (319.1 in)
D. Front protrusion from tires with boom horizontal	1498 mm (59.0 in)
E. Front protrusion from tires with attachment on the ground	873 mm (34.4 in)
F. Front protrusion from tires at maximum height	724 mm (28.5 in)
G. Dig depth	68 mm (2.7 in)
ISO Load Specifications	
Operating Weight (without load)	14601 kg (32190 lb)
Operating load	
50% Articulation Tip, SAE J1197	3617 kg (7974 lb)
60% Articulation Tip, Rough Terrain, EN474-3	4340 kg (9569 lb)
80% Articulation Tip, Firm & Level Ground, EN474-3	5787 kg (12759 lb)
Tipping load	
Machine straight	8734 kg (19254 lb)
40° turn	7234 kg (15948 lb)



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721G XR Specifications - Forks (P/N: 87454387) with Leonardi Coupler (P/N: 87750108)

- (A) Operating load
- (B) 610 mm (24.0 in)

NOTE: machine configured with Heavy Duty counterweight and Michelin 20.5R25 XHA TL tires.

Load Specifications (EN 474-3)

Operating load	
Rough terrain	3805 kg (8389 lb)
Firm and level ground	5074 kg (11186 lb)

Metric hardware**Grade 8.8 bolts, nuts, and studs**

Size	Nm	lb in/lb ft
4 mm	3 – 4 Nm	24 – 36 lb in
5 mm	7 – 8 Nm	60 – 72 lb in
6 mm	11 – 12 Nm	96 – 108 lb in
8 mm	26 – 31 Nm	228 – 276 lb in
10 mm	52 – 61 Nm	456 – 540 lb in
12 mm	90 – 107 Nm	66 – 79 lb ft
14 mm	144 – 172 Nm	106 – 127 lb ft
16 mm	217 – 271 Nm	160 – 200 lb ft
20 mm	434 – 515 Nm	320 – 380 lb ft
24 mm	675 – 815 Nm	500 – 600 lb ft
30 mm	1250 – 1500 Nm	920 – 1100 lb ft
36 mm	2175 – 2600 Nm	1600 – 1950 lb ft

Markings for Grade 8.8 hardware

**Grade 10.9 bolts, nuts and studs**

Size	Nm	lb in/lb ft
4 mm	4 – 5 Nm	36 – 48 lb in
5 mm	9 – 11 Nm	84 – 96 lb in
6 mm	15 – 18 Nm	132 – 156 lb in
8 mm	37 – 43 Nm	324 – 384 lb in
10 mm	73 – 87 Nm	54 – 64 lb ft
12 mm	125 – 150 Nm	93 – 112 lb ft
14 mm	200 – 245 Nm	149 – 179 lb ft
16 mm	310 – 380 Nm	230 – 280 lb ft
20 mm	610 – 730 Nm	450 – 540 lb ft
24 mm	1050 – 1275 Nm	780 – 940 lb ft
30 mm	2000 – 2400 Nm	1470 – 1770 lb ft
36 mm	3500 – 4200 Nm	2580 – 3090 lb ft

Markings for Grade 10.9 hardware

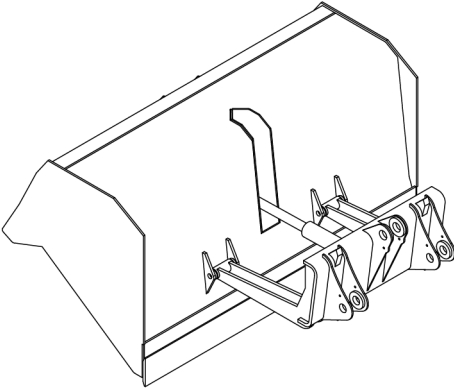
**Grade 12.9 bolts, nuts, and studs**

Torque values specified for grade 10.9 hardware can be used for grade 12.9 hardware.

Markings for Grade 12.9 hardware



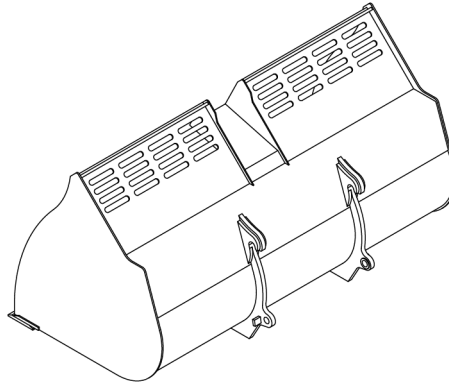
HIGH TIP BUCKETS

Z-bar/Long Reach Arm							
Direct Fit							
							
LEIL17WHL0081AA 4							
Type of Bucket	Bucket Capacity	Bucket Weight	Bucket Width	Hydraulic Setting	Max Material Density		Operative Notes
				Auxiliary Work Pressure	Z-Bar	XR	
High tip	3.0 m ³ (3.9 yd ³)	1650 kg (3637.6 lb)	2500 mm (98.4 in)	18.0 MPa (2610.9 psi)	1240 kg/m ³ (2090.1 lb/yd ³)	1038 kg/m ³ (1749.6 lb/yd ³)	See NOTE (1) See NOTE (2)
High tip	3.5 m ³ (4.6 yd ³)	1750 kg (3858.1 lb)	2500 mm (98.4 in)	18.0 MPa (2610.9 psi)	1042 kg/m ³ (1756.3 lb/yd ³)	870 kg/m ³ (1466.4 lb/yd ³)	See NOTE (1) See NOTE (2)
High tip (2 cylinders)	3.5 m ³ (4.6 yd ³)	2010 kg (4431.3 lb)	2500 mm (98.4 in)	18.0 MPa (2610.9 psi)	1005 kg/m ³ (1694.0 lb/yd ³)	834 kg/m ³ (1405.8 lb/yd ³)	See NOTE (1) See NOTE (2)
High tip	4.0 m ³ (5.2 yd ³)	1850 kg (4078.6 lb)	2850 mm (112.2 in)	18.0 MPa (2610.9 psi)	891 kg/m ³ (1501.8 lb/yd ³)	743 kg/m ³ (1252.4 lb/yd ³)	See NOTE (1) See NOTE (2)
NOTE: (1) Auxiliary Pressure Adjustment needed – see Instructions.							
NOTE: (2) Slowed hydraulics required – see Instructions.							

9 - ACCESSORIES

Z-bar/Long Reach Arm

Quick Coupler Fit



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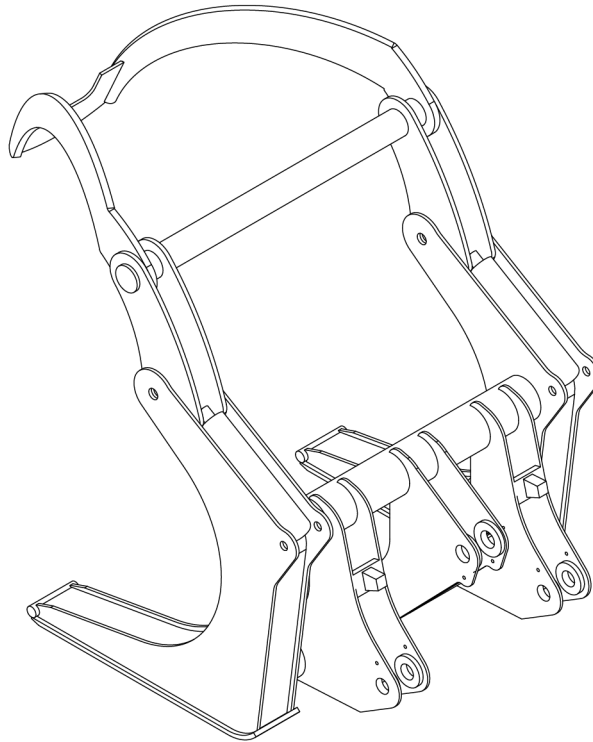
Type of Bucket	Bucket Capacity	Bucket Weight	Bucket Width	Hydraulic Setting	Max Material Density		Operative Notes
				Auxiliary Work Pressure	Z-Bar	XR	
Light material	4.0 m ³ (5.2 yd ³)	1295 kg (2855.0 lb)	2500 mm (98.4 in)	–	1148 kg/m ³ (1935.0 lb/yd ³)	973 kg/m ³ (1640.0 lb/yd ³)	–
Light material	4.0 m ³ (5.2 yd ³)	1673 kg (3688.3 lb)	2750 mm (108.3 in)	–	1015 kg/m ³ (1710.8 lb/yd ³)	859 kg/m ³ (1447.9 lb/yd ³)	See NOTE
Light material	4.5 m ³ (5.9 yd ³)	1723 kg (3798.6 lb)	2750 mm (108.3 in)	–	933 kg/m ³ (1572.6 lb/yd ³)	787 kg/m ³ (1326.5 lb/yd ³)	–
Light material	5.0 m ³ (6.5 yd ³)	1793 kg (3952.9 lb)	3000 mm (118.1 in)	–	800 kg/m ³ (1348.4 lb/yd ³)	675 kg/m ³ (1137.7 lb/yd ³)	See NOTE
Light material	6.0 m ³ (7.8 yd ³)	2398 kg (5286.7 lb)	3200 mm (126.0 in)	–	595.0 kg/m ³ (1002.9 lb/yd ³)	496 kg/m ³ (836.0 lb/yd ³)	See NOTE

NOTE: slowed hydraulics required – see Instructions.

LOG GRAPPLE FORKS

Z-Bar / Long Reach / Parallel Arm

Direct Fit



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Type of Fork	Fork Capacity	Fork Weight	Fork Width	Hydraulic Setting	Load 75% Articulation Tip, Rough Terrain, EN474-3			Operative Notes
				Auxiliary Work Pressure	Z-Bar	XR	XT	
Log Grapple Fork	0.8 m ² (8.6 ft ²)	1181.0 kg (2603.7 lb)	1750.0 mm (68.9 in)	18.0 MPa (2610.9 psi)	6178.0 kg (13620.2 lb)	5330.0 kg (11750.6 lb)	5896.0 kg (12998.5 lb)	See NOTE
Log Grapple Fork	1.1 m ² (11.8 ft ²)	1350.0 kg (2976.2 lb)	1750.0 mm (68.9 in)	18.0 MPa (2610.9 psi)	5743.0 kg (12661.1 lb)	4958.0 kg (10930.5 lb)	5487.0 kg (12096.8 lb)	See NOTE
Log Grapple Fork	1.3 m ² (14.0 ft ²)	1450.0 kg (3196.7 lb)	1750.0 mm (68.9 in)	18.0 MPa (2610.9 psi)	4780.0 kg (10538.1 lb)	4176.0 kg (9206.5 lb)	4581.0 kg (10099.4 lb)	See NOTE

NOTE: Auxiliary Pressure Adjustment needed – see Instructions.

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