Personal safety

Carefully read this Manual before proceeding with maintenance, repairs, refuelling or other machine operations.

Repairs have to be carried out only by authorized and instructed staff; specific precautions have to be taken when grinding, welding or when using mallets or heavy hammers.

Not authorized persons are not allowed to repair or carry out maintenance on this machine. Do not carry out any work on the equipment without prior authorization.

Ask your employer about the safety instructions in force and safety equipment.

Nobody is allowed to seat on the operator's place during machine maintenance unless he is a qualified operator helping with the maintenance work.

If it is necessary to move the equipment to carry out repairs or maintenance, do not lift or lower the equipment from any other position than the operator's seat.

Never carry out any operation on the machine when the engine is running, except when specifically indicated.

Stop the engine and ensure that all pressure is relieved from hydraulic circuits before removing caps, covers, valves, etc.

All repair and maintenance operations should be carried out with the greatest care and attention.

Service stairs and platforms used in a workshop or in the field should be built in compliance with the safety rules in force.

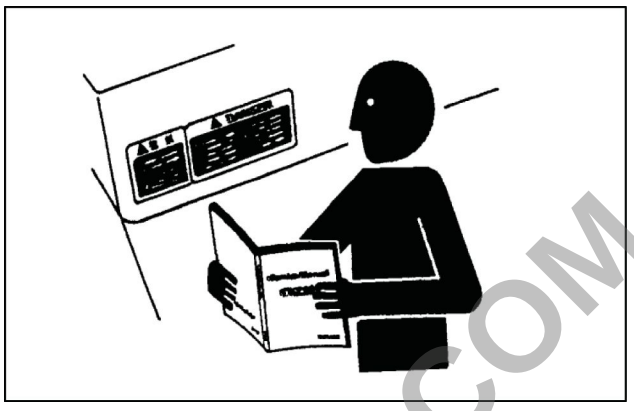
Any functional disorders, especially those affecting the safety of the machine, should therefore be rectified immediately.

⚠ DANGER

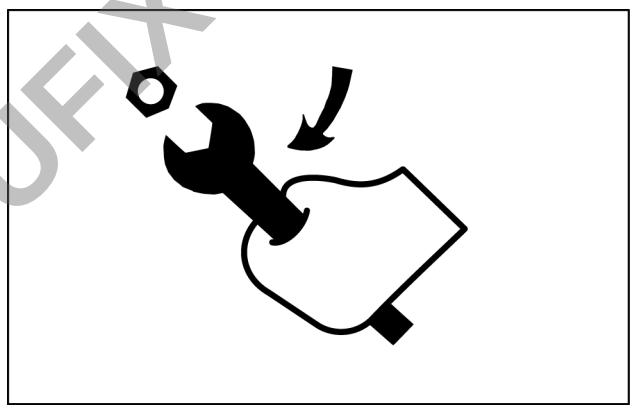
Unexpected movement!
Make sure parking brake is applied. Secure machine with wheel chocks.
Failure to comply will result in death or serious injury.

D0013A

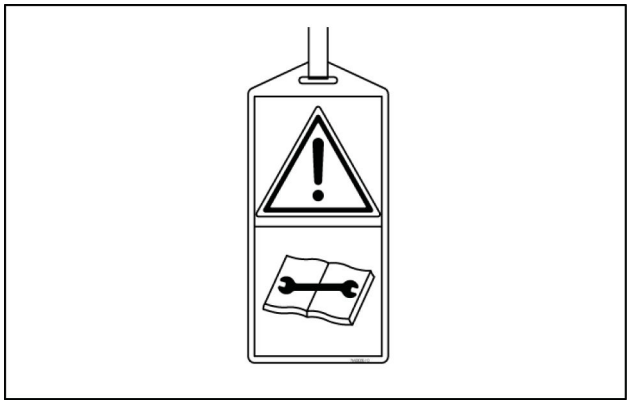
Before performing any work on the machine, attach a maintenance in progress tag. This tag can be applied on the left-hand control lever, safety lever or cab door.



TULI12WEX2004AA 1



TULI12WEX2005AA 2



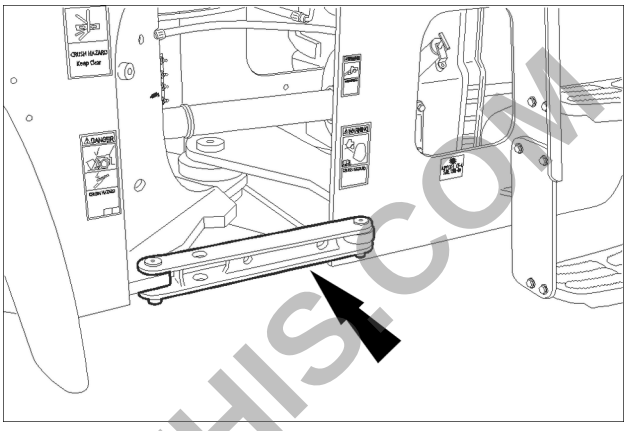
TULI12WEX2006AA 3

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Engine - Remove

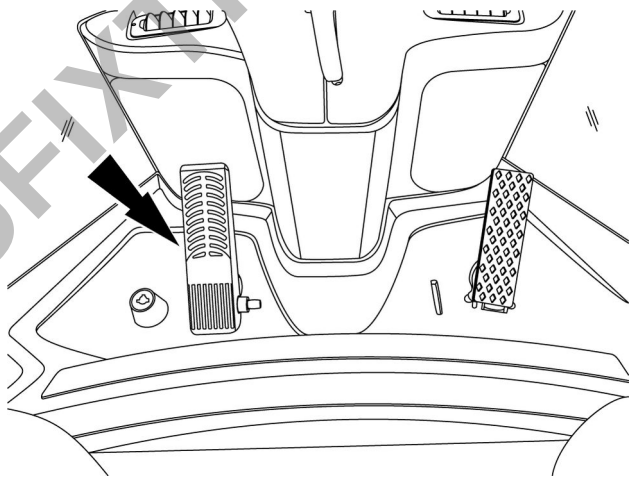
NOTE: *Emissions sensors mounted in the exhaust stream are sensitive to extreme vibrations. Use of tools that generate extreme vibrations, such as impact wrenches and hammers, will result in damage to emission sensors. Avoid using these tools during any service procedure in close proximity of emission sensors. If the use of these tools cannot be avoided, remove the sensors using extreme caution prior to performing any service procedure.*

1. Park machine on a level surface and lower the bucket to the ground. Put articulation lock in LOCKED position and stop the engine.



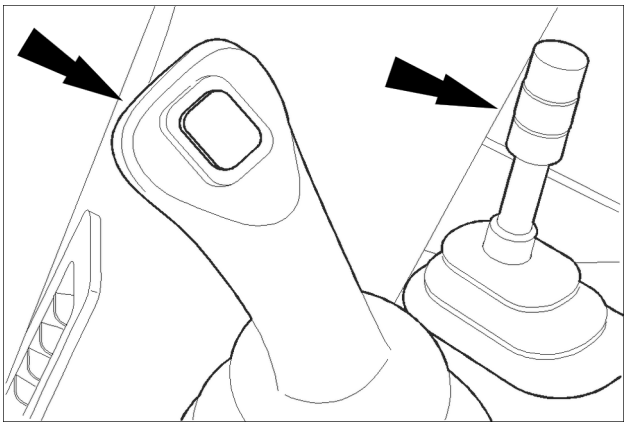
RCPH10WHL063BAL 1

2. Actuate the brake pedal several times to discharge brake accumulators.



RCPH10WHL435AAH 2

3. Put key switch in ON position. Pilot control switch must be in the ON position and then move loader control lever(s) back and forth at least 30 times to release any pressure from hydraulic circuit. Put key switch in OFF position.

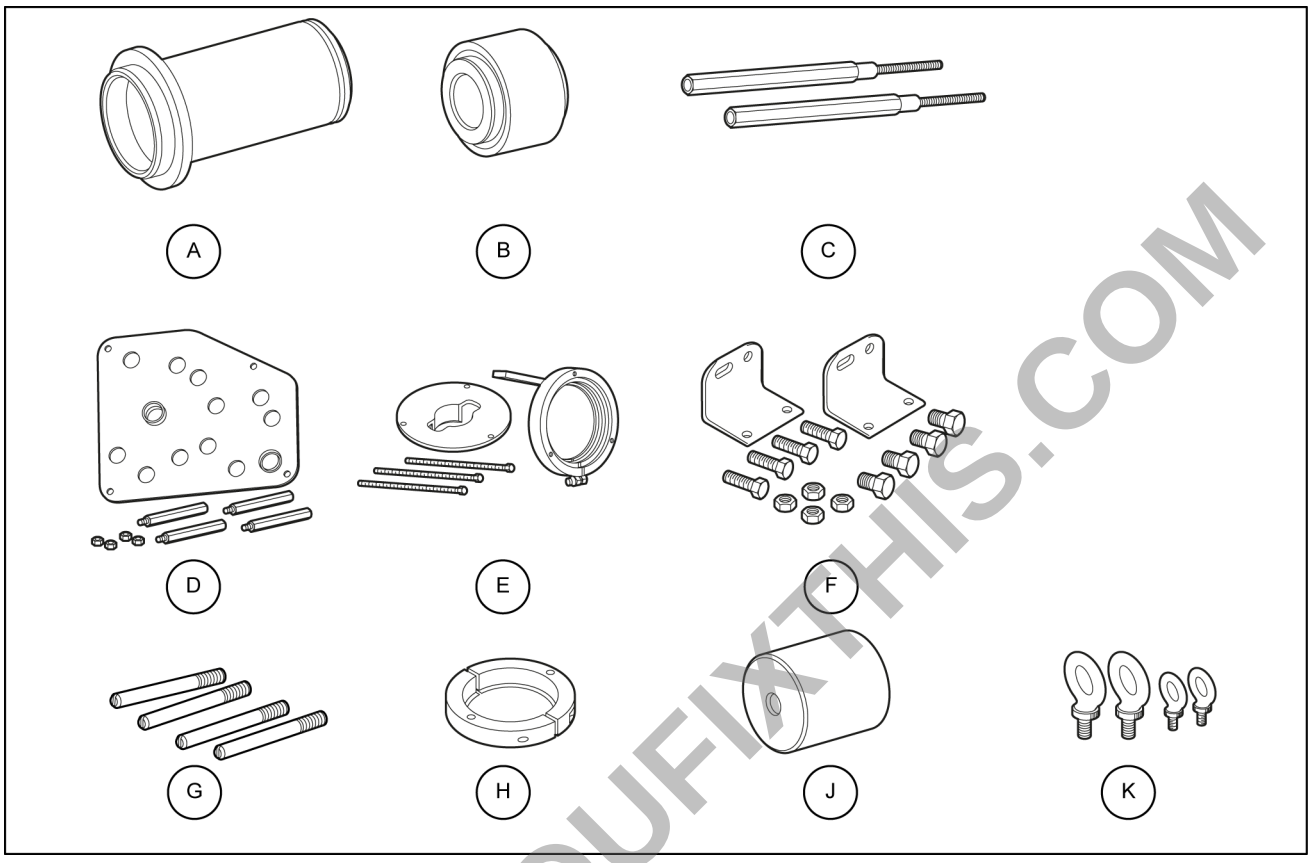


RCPH10WHL119BAL 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Powershift transmission - Special tools



LEIL13WHL0770FB 1

ITEM	P/N	Description
A	380001559	Transmission torque converter seal installation tool
B	380001560	Transmission input/output shaft seal installation tool
C	CAS2885	Transmission valve adjustment tool set
D	CAS2796	Nesting plate
E	380001556	Clutch pack holder and spring compressor tools
F	CAS20801	Transmission mounting brackets
G	CAS2802	Alignment dowel set
H	CAS2798	Gear puller collet set
J	380001557	Clutch assembly holding knob set
K	CAS2797	Lifting eyebolt set

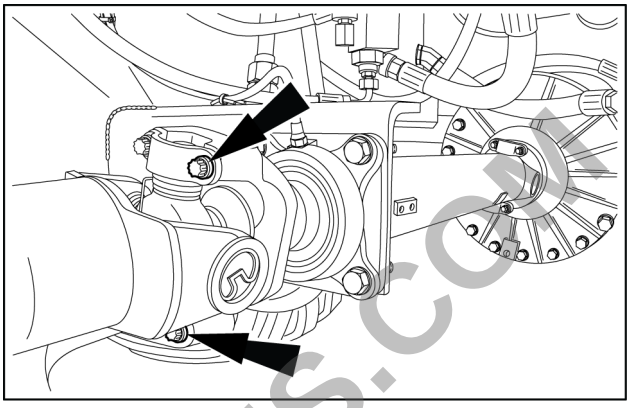
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Drive shaft - Remove - Front Drive Shaft

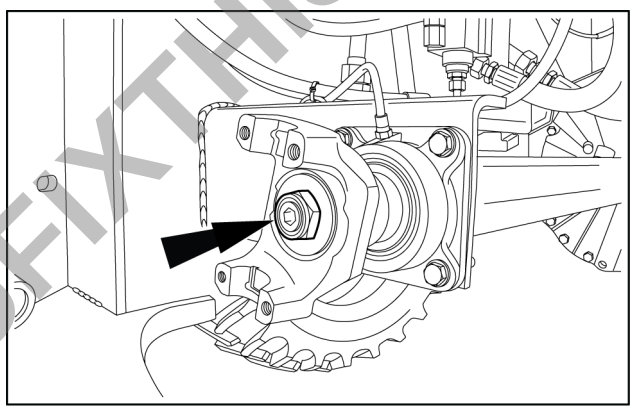
NOTE: *The W230C Series machines use mechanical style yokes (no bearing straps) and may appear different from the machine pictured.*

1. Loosen and remove the bolts and straps that fasten the center drive shaft to the yoke of the front drive shaft.



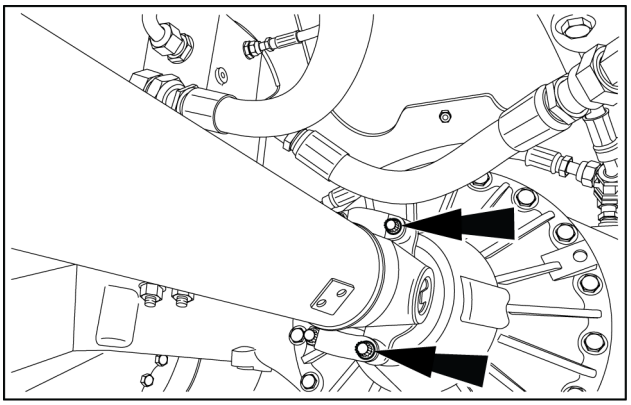
LEIL13WHL1063AB 1

2. Remove the lock nut that fastens the yoke to the front drive shaft.



LEIL13WHL1064AB 2

3. Make an alignment mark on the yoke and the end of the front drive shaft to make sure that the yoke is installed correctly.
4. Use an acceptable puller and remove the yoke from the end of the front drive shaft.
5. Loosen the set screws that secure the center bearing to the front drive shaft.
6. Remove any paint or rust from the rear of the front drive shaft and apply WD40 or similar oil to loosen any rust between the inner race and the front drive shaft.
7. Loosen and remove the bolts and straps that fasten the front drive shaft to the front axle.



LEIL13WHL1065AB 3

PREVIEW - YOUFIXTHIS.COM

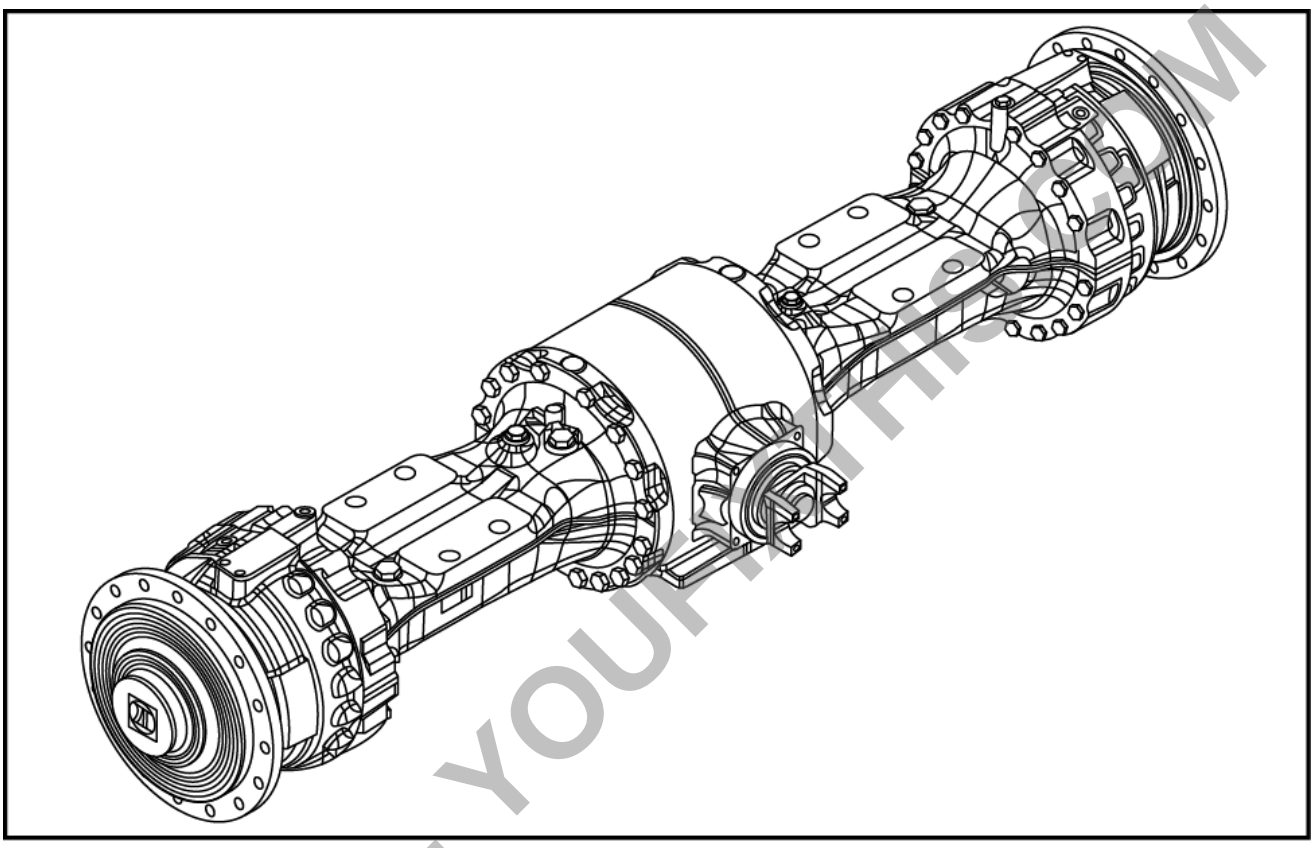
Download full manual at youfixthis.com

Powered front axle - General specification

W190C	

Front Axle Model MT-L3095II - Limited Slip Differential

Front Axle Model MT-L3095II - Locking Differential



LEIL13WHL0573AA 1

OVERALL WIDTH	**2483 mm** (**98 in**)
DISTANCE FLANGE TO FLANGE	**2314 mm** (**91 in**)
WHEEL MOUNTING BOLT CIRCLE DIAMETER	**425 mm** (**17 in**)
WHEEL MOUNTING STUDS	16 (**M22x1.5**)
HUB RATIO	6.00:1
CROWN/PINION RATIO	4.11:1
OVERALL RATIO	24.67:1
CW INPUT ROTATION (FACING INPUT FLANGE) FOR FORWARD TRAVEL	–
(*) AXLE TO BE EQUIPED WITH LIMITED SLIP TYPE DIFFERENTIAL	45% TRANSFER

(*) Only Front Axle Model MT-L3095II - Limited Slip Differential

PREVIEW - YOUFIXTHIS.COM

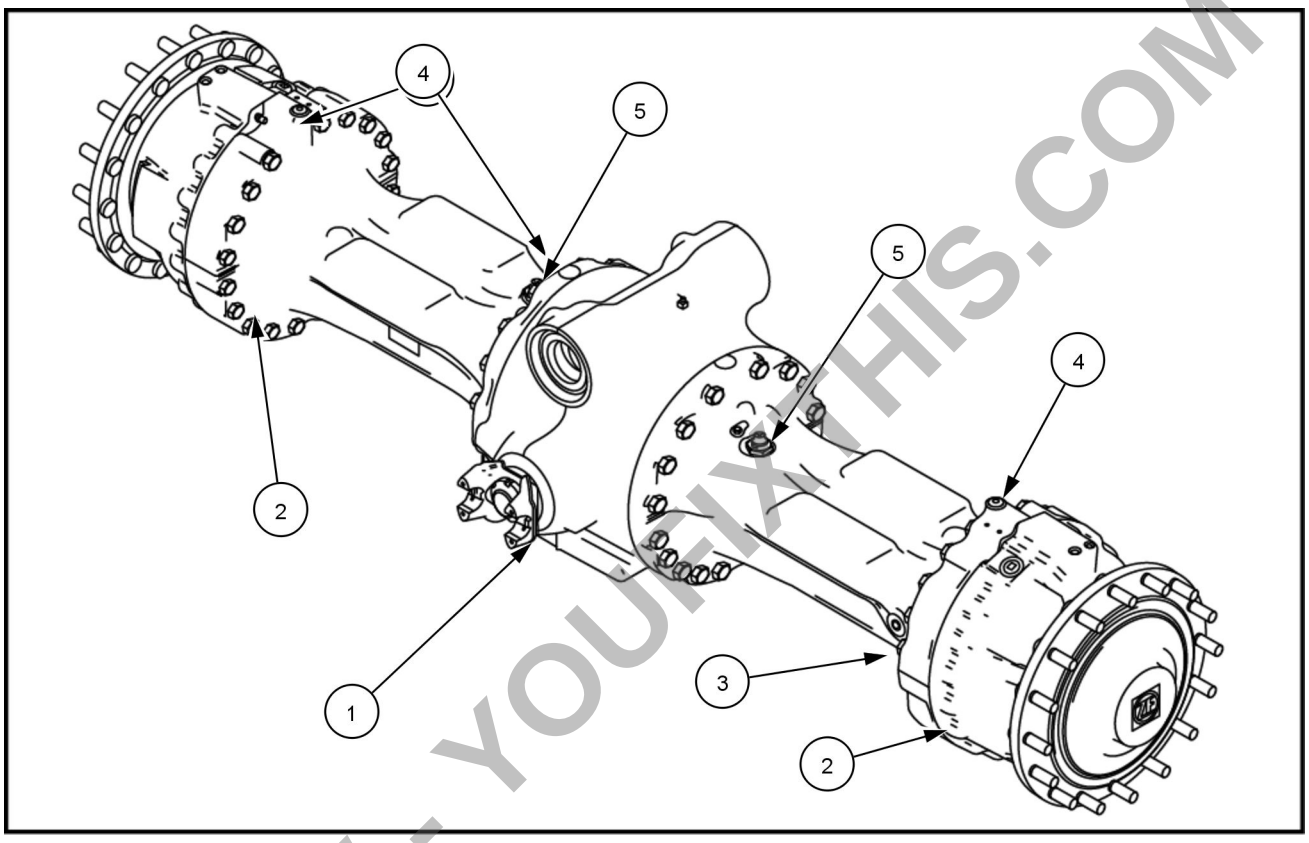
Download full manual at youfixthis.com

Powered rear axle - Lubricate

W190C

Rear Axle Model MT-L3085II - Limited Slip Differential

Rear Axle Model MT-L3095II - Open Differential



LEIL13WHL1208AA 1

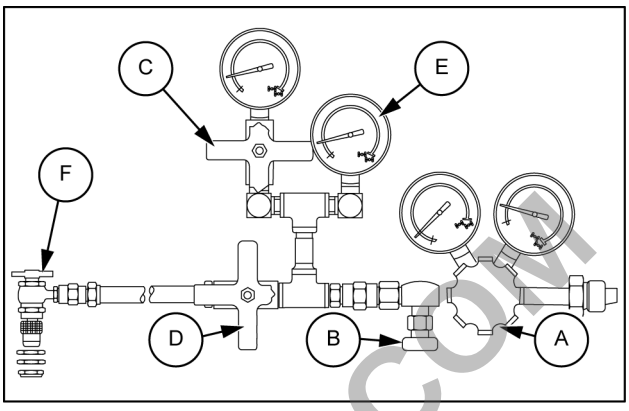
1. Oil drain hole (axle casing)
2. Oil drain hole (outputs)
3. Oil filler and check hole
4. Brake bleeder
5. Bleeder

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

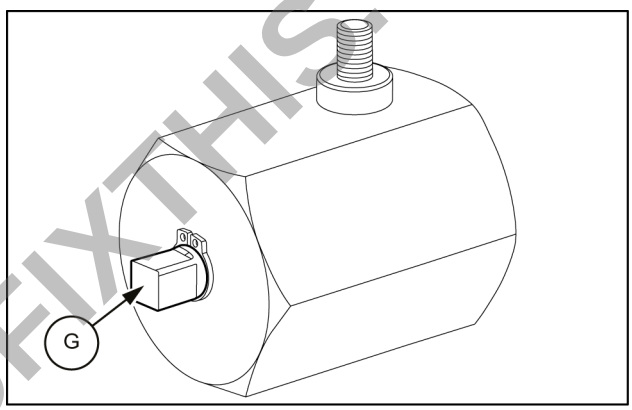
Hydraulic service brakes - Special tools

CAS-10899 Nitrogen charging kit used to check and charge the accumulator with nitrogen.



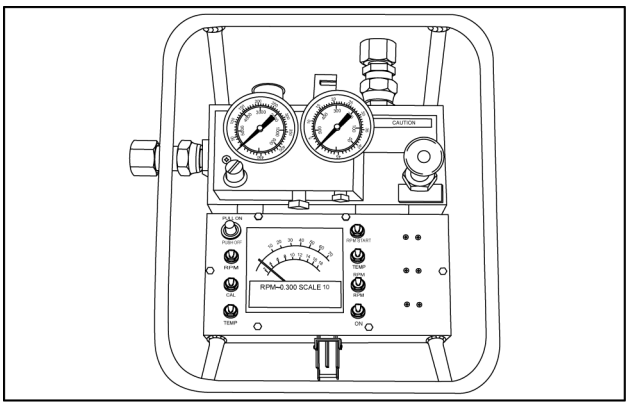
LEIL13WHL1358AB 1

380001168 Accumulator charging adapter



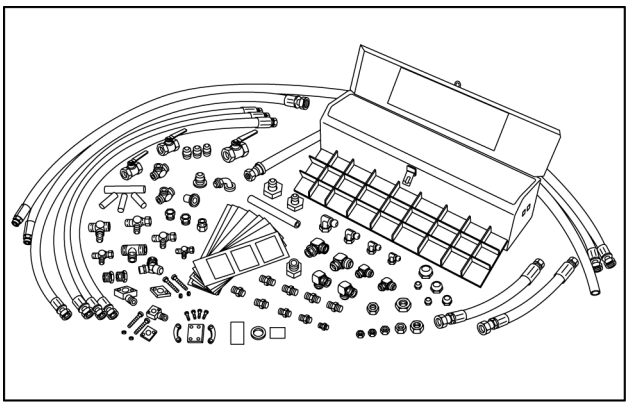
LEIL13WHL1230AB 2

CAS-10280 Flow meter



LEIL13WHL1199AA 3

CAS-1808 Flow meter fitting kit



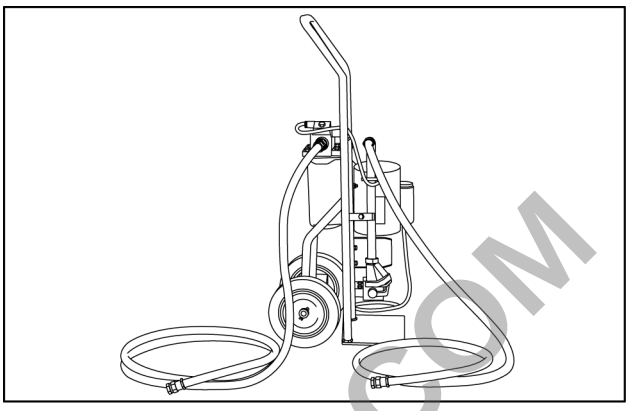
LEIL13WHL1200AA 4

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

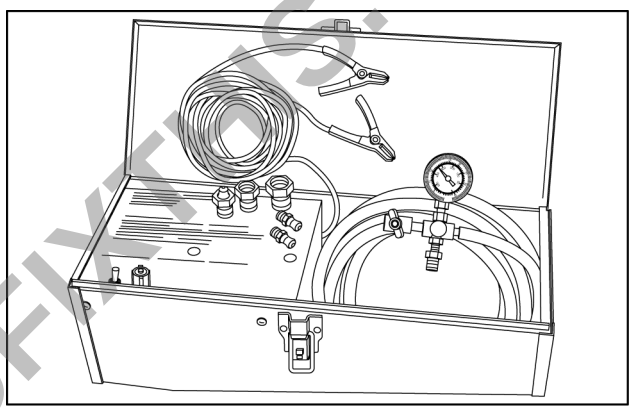
Hydraulic systems - Special tools

CAS101162A, Filter Unit, Portable



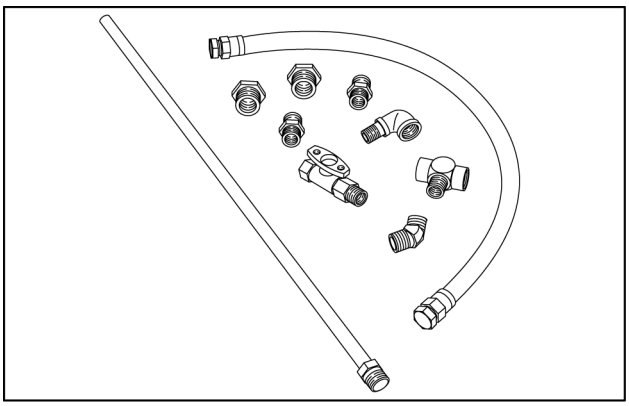
LEIL13WHL1194AA 1

CAS10192, Vacuum Pump



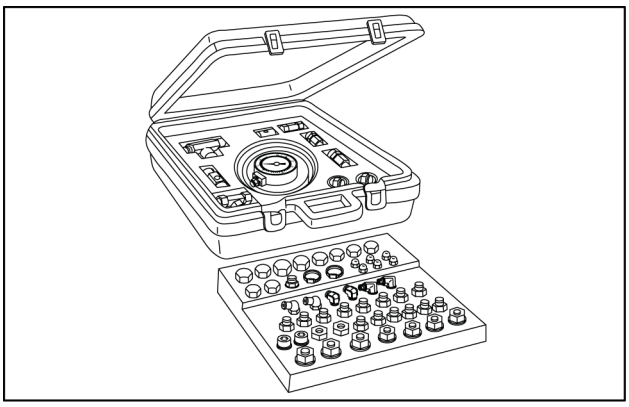
LEIL13WHL1195AA 2

CAS10508, Fitting kit



LEIL13WHL1196AA 3

CAS1904 Pressure Fitting Kit

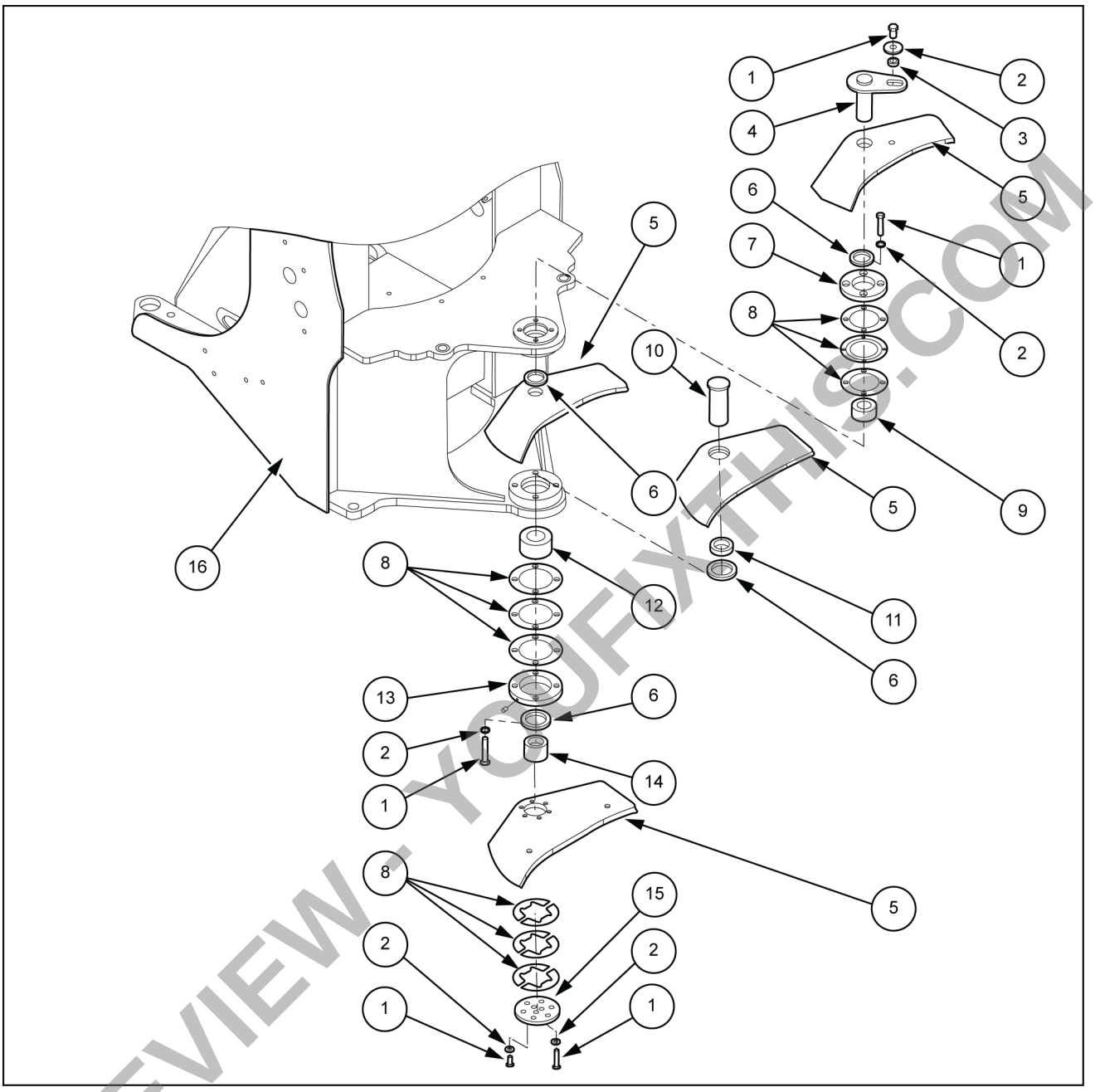


LEIL13WHL1197AA 4

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Articulation frame pivot - Exploded view



LEIL13WHL1365GB 1

Center pivot assembly

1. Bolt
2. Washer
3. Spacer
4. Upper pivot pin
5. Rear chassis
6. Seal
7. Bearing retainer
8. Shim
9. Upper pivot bearing
10. Lower pivot pin
11. Lower bearing spacer
12. Lower pivot bearing
13. Bearing retainer
14. Bottom spacer
15. Lower pin plate
16. Front chassis

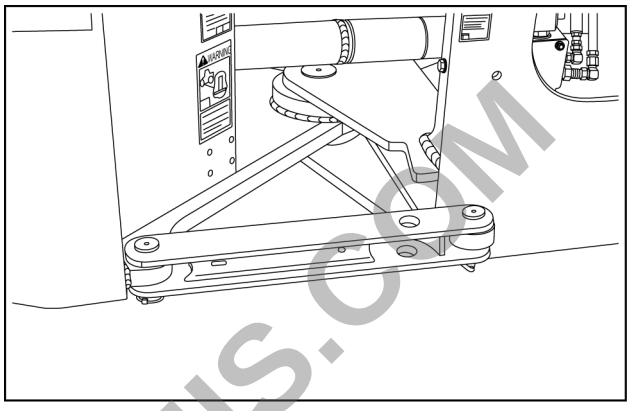
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Steering control - Service instruction - Testing and adjusting the steering limit pressure

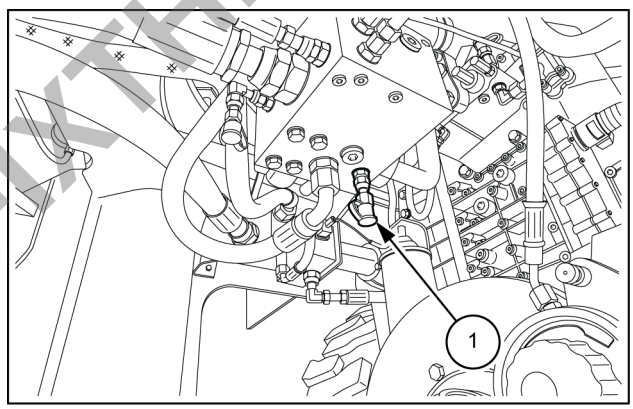
Pressure check

1. Install articulation lock.



LEIL13WHL1236AA 1

2. Connect a **345 bar** (**5002 psi**) test gauge to the test port **(1)**, located on the priority valve.



LEIL13WHL1289AB 2

3. Make sure that the temperature of the hydraulic oil is at least **54 - 57 °C** (**129 - 135 °F**). The following is the procedure for heating the hydraulic oil.
   ● To measure the oil temperature with the instrument cluster:
   A. Press the up or down arrow key.
   B. Stop at the info screen with the temperatures that need to be monitored are on.
   ● To heat the hydraulic oil do the following:
   A. Start the engine and run at full throttle.
   B. Hold the bucket control lever in the ROLLBACK position while raising and lowering the lift arms from ground level to full height.
   C. Continue this procedure until the temperature of the hydraulic oil is **54 - 57 °C** (**129 - 135 °F**). After heating oil to operating temperature, lower bucket to the ground, turn off the engine, and relieve all pressure in the hydraulic system.
4. Start the engine and run at full throttle.
5. Steer hard in either direction over relief pressure.
6. Record the reading on the test gauge.
7. Reading should be **239 - 243 bar** (**3466 - 3524 psi**).
8. If this reading is more or less than specified, it will be necessary to adjust the steering limit pressure.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Front wheels - Install

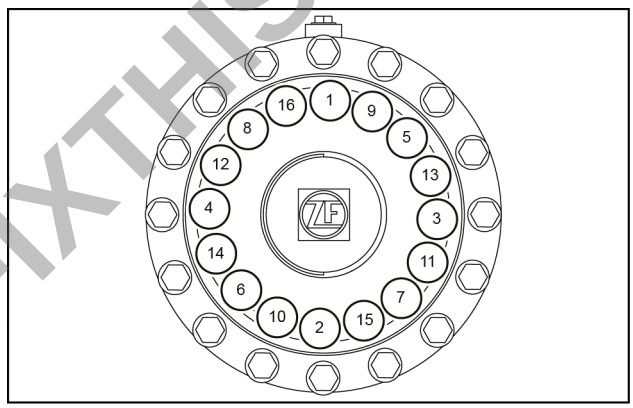
NOTE: *This instruction is applicable both to the front and the rear tires.*

1. Make sure the mounting surfaces of the rim and axle flange are clean and free of dirt and grease.
2. Install the wheel, hardened washers and wheel bolts.
3. Use a hand wrench (not an impact) to tighten the wheel bolts to pull the wheel against the planetary housing. DO NOT use an impact wrench to tighten the wheel bolts.

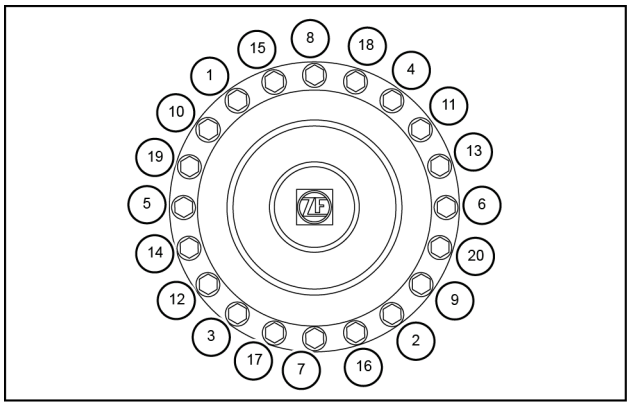
Stud mounted wheels

Machines are equipped with stud mounted wheels. Wheel studs offer greater strength due to an increase in clamping force and resistance to loosening.

4. Tighten the wheel bolts to **298 N·m** (**220 lb ft**), then tighten to a final torque of **640 - 720 N·m** (**472.0 - 531.0 lb ft**), using the same sequence.



LEIL13WHL0567AB 1



LEIL13WHL0568AB 2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Air conditioning - General specification

Pressure-Temperature and Louver Air Temperature Chart

AMBIENT TEMPERATURE °C (°F)	NORMAL LOW PRESSURE INDICATION bar (psi)	NORMAL HIGH PRESSURE INDICATION bar (psi)	AIR LOUVER MAXIMUM TEMPERATURE °C (°F)
27 (80)	0.62 to 0.83 (9 to 12)	10.0 to 11.5 (145 to 165)	14 (55)
32 (90)	0.76 to 1.00 (11 to 15)	13.1 to 14.5 (190 to 210)	18 (61)
35 (95)	1.10 to 1.24 (16 to 18)	14.5 to 15.8 (210 to 230)	20 (63)
38 (100)	1.17 to 1.31 (17 to 19)	16.2 to 17.6 (235 to 255)	22 (66)
41 (105)	1.38 to 1.45 (20 to 21)	17.9 to 19.3 (260 to 280)	23 (68)
43 (110)	1.90 to 2.14 (22 to 24)	20.0 to 21.4 (290 to 310)	25 (72)

BC04D002 1

NOTE: *The pressure temperature chart is based on the following conditions:*

(1) Engine operating at 1500 rpm.
(2) No engine load.
(3) Fan speed control in maximum position (full clockwise) and all louvers open.
(4) Cab temperature control set to maximum cooling (full counterclockwise).
(5) A/C switch ON. Both cab doors open.
(6) All panels and access doors installed and closed.
(7) Cab filters clean and installed.
(8) Heater valve at engine closed.
(9) Measurements taken 15 minutes after start-up.

Refrigerant charge	**1700 g** (**60.0 oz**)

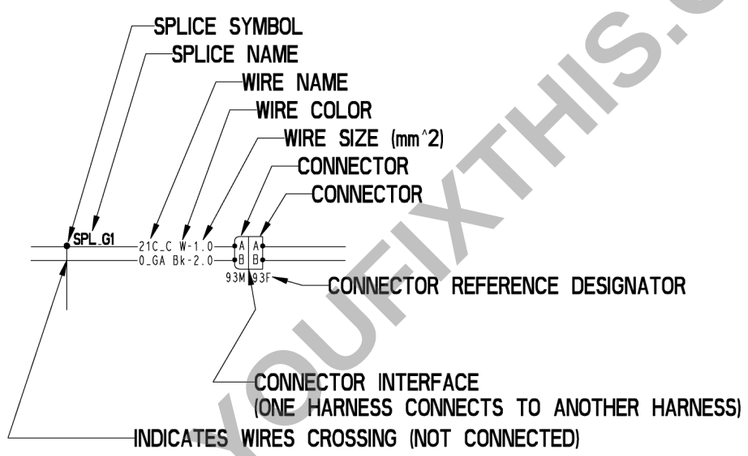
PREVIEW - YOUFIXTHIS.COM

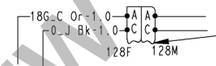
Download full manual at youfixthis.com

INDEX OF FUNCTIONS	
FUNCTION	SHT
AIR SEAT	12
CAN COMMUNICATION	12
COLD START	4
ENGINE CONTROL	5
HOOD LIFT	11
HVAC	12
IGNITION SWITCH	4
INSTRUMENT CLUSTER	9
HOOD LIFT	11
LIGHTING 1 (combos...)	6
LIGHTING 2 (work lights)	7
MACHINE CONTROLS	10
RADIO/POWER CONVERTER	12
POWER DISTRIBUTION	4
TRANSMISSION CONTROL	8
SCR EXHAUST TREATMENT	6
SECONDARY STEERING	11
WIPER/WASHER SYSTEM	11
JOYSTICK STEERING	13

REF DES NAMING CONVENTION
S.... ROCKER SWITCHES
L.... LIGHTS
P.... PRESSURE SENSORS/SWITCHES
Y.... SOLENOIDS
R.... RESISTANCE MEASURE
ABOVE LETTER FOLLOWED BY THE FIRST LETTER
OF THE FIRST TWO WORDS OF THE SYMBOL LABEL.
SPL_.... SPLICE

DIAGRAM SYMBOL DESCRIPTIONS

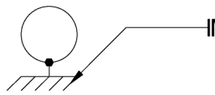




INDICATES PARTIAL CONNECTOR
(NOT ALL ENTRY PORTS SHOWN)



INDICATES THAT THE WIRE CONNECTS TO CONNECTOR
TECM (TRANSMISSION ELECTRONIC CONTROL MODULE)
ON SHEET 6. TECM CAN BE LOCATED ON SHEET 6 USING
ZONE (GRID) LOCATIONS GIVEN IN TABLES ON SHEET2.



INDICATES INTERNALLY GROUNDED COMPONENT

COLOR ABBREVIATIONS	
ABBREVIATION	COLOR
Bk	BLACK
DU	DARK BLUE
G	GREEN
K	PINK
LG	LIGHT GREEN
LU	LIGHT BLUE
N	BROWN
Or	ORANGE
P	PURPLE OR VIOLET
R	RED
S	GREY
T	TAN
U	BLUE
W	WHITE
Y	YELLOW

INDEX/WIRE INFORMATION

1

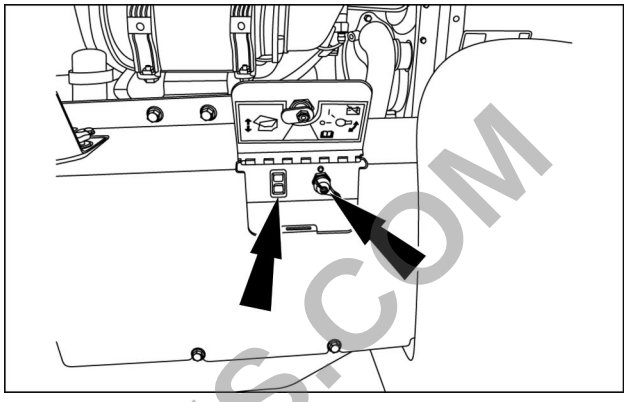
LEIL13WEL0501JA 1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

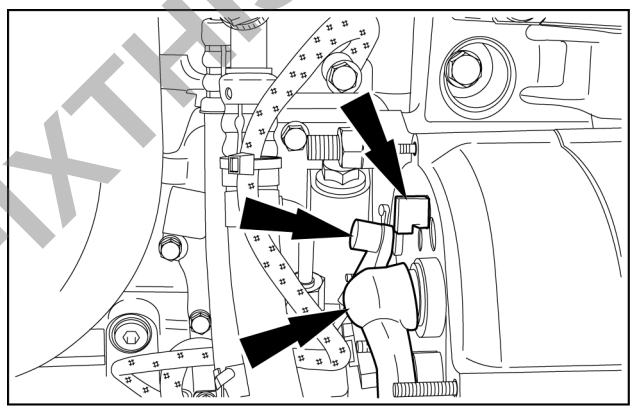
Alternator - Remove

1. Park the machine on a level surface and lower bucket to ground.
2. Raise the engine compartment with lifting motor. Place the master disconnect switch in the OFF position.



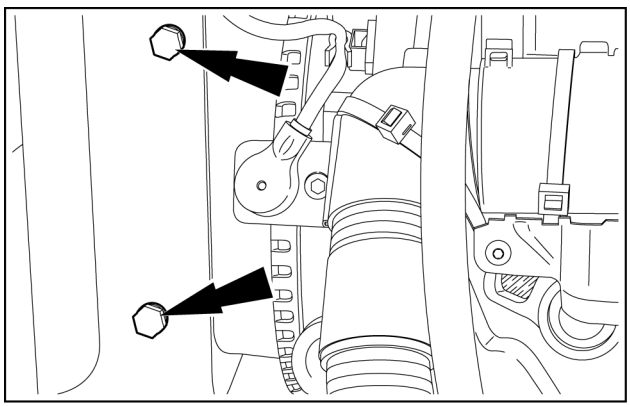
RCPH10WHL106AAH 1

3. Disconnect wires from the alternator.

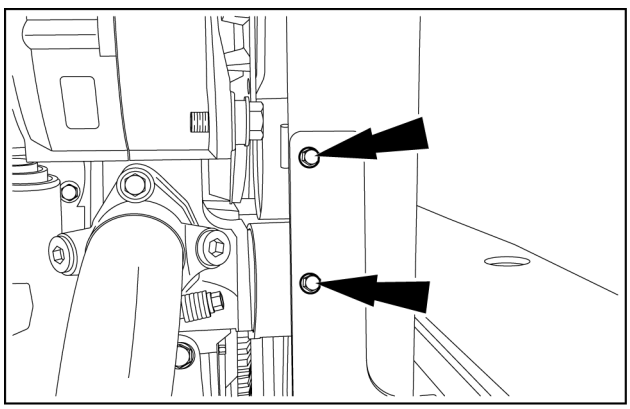


LEIL13WHL0626AB 2

4. Remove four belt cover mounting bolts, remove cover.



LEIL13WHL0627AB 3



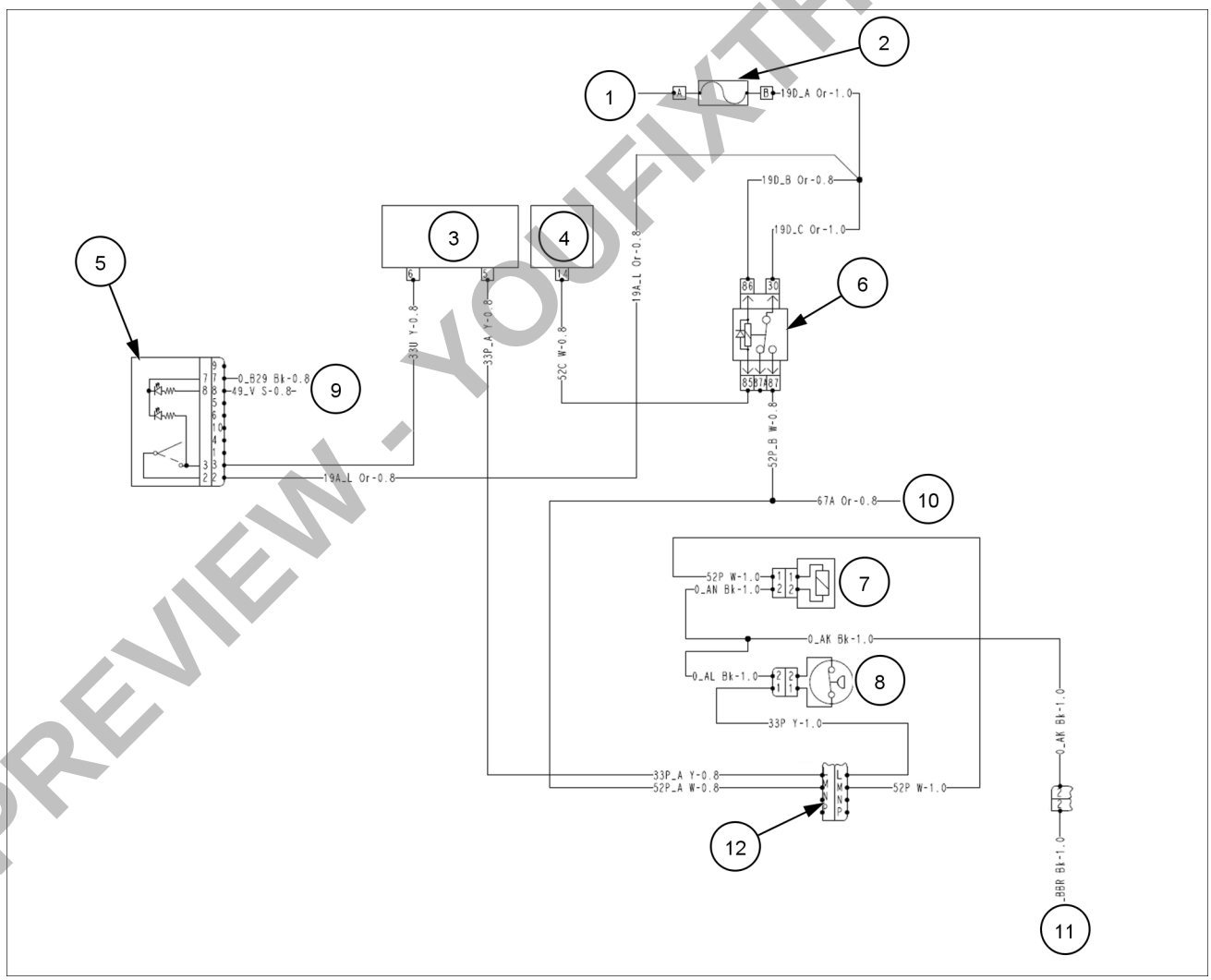
LEIL13WHL0628AB 4

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Parking brake control - Testing - Parking Brake Switch

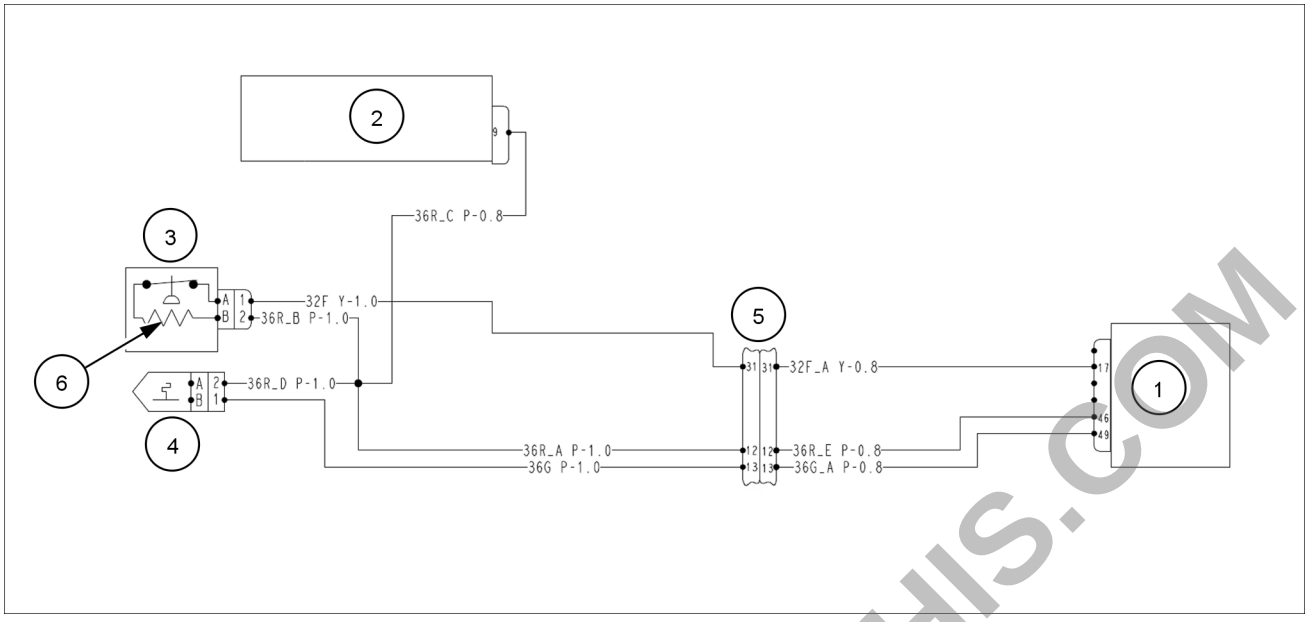
N°	Test Point	Expected Result	Other Result (Possible Cause)
1	**Condition** Turn the key switch ON. **Check** Measure the voltage from Parking Brake Switch pin 2 to chassis ground.	**Result** The voltage should be approximately **24 V**.	**Action** The voltage is less than **10 V**, there is a problem in the battery supply to the switch. Check fuse **ECA-F6**. Repair as required.
2	**Condition** Actuate the Parking Brake Switch. **Check** Measure the voltage from Parking Brake Switch pin 3 to chassis ground.	**Result** The voltage should be approximately **24 volts**.	**Action** The voltage is less than **10 V**, there is a problem in the Parking Brake Switch. Temporarily replace the switch and retest.
3	**Condition** Actuate the Parking Brake Switch. **Check** Measure the voltage from AIC connector pin 6 to chassis ground.	**Result** The voltage should be approximately **24 volts**. **Action** Temporarily replace the Instrument Cluster and retest.	**Action** The voltage is less than **10 volts** there is a problem in the signal wire from the switch to the **AIC** display. Repair as required.



RCPH11WHL011GAL 1

(1)	Switched Battery, **24 V**	**(7)**	Parking brake Solenoid
(2)	Park Brake **ECA-F6** **5 A**	**(8)**	Brake Warning Pressure Switch Normally Closed, switch open at **11032 kPa** (**1600 psi**)

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM



RCPH11WHL002FAL 1

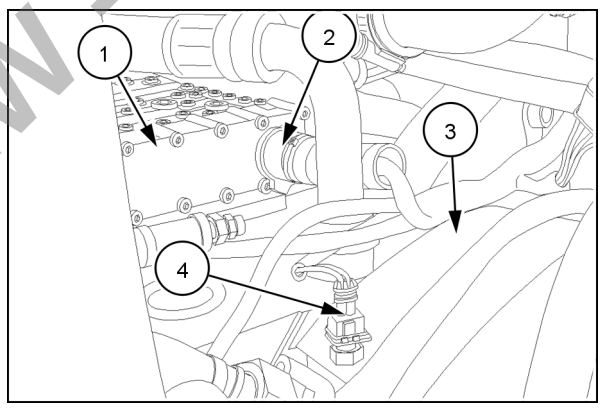
Schematic legend			
(1)	**TECM**	**(4)**	Torque converter output temperature sender 3521 ohms at **20 °C** (**68 °F**).
(2)	TRC Trans Control	**(5)**	Cab T/ Trans Connector
(3)	Filter maintenance switch	**(6)**	510 ohm resistor

A. The wiring is free of corrosion, damage, abrasion and incorrect attachment. Go to Step **4**.

B. The wiring is not free of corrosion, damage, abrasion and incorrect attachment. Repair or replace the harness as required. Go to Step **1** to confirm elimination of the fault.

4. Measure the resistance of the temp sender.

(1) Disconnect Connector TCOT from the Torque Converter Output temperature sending unit.



BD07F017-01 2

(1)	Valve body
(2)	Connector TRC
(3)	Bell housing
(4)	Connector TCOT

(2) Measure the resistance across pin A and B on the Torque Converter Output Temperature Sender. The resistance should be approximately **3520 Ω** at **20 °C** (**68.0 °F**).

A. The resistance is not within the specifications. Temporarily replace sending unit and retest. Return to Step **1** to confirm elimination of fault.

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM

19006-CAN timeout error from NH3 sensor - NH3Fac message

Control Module : ECU

Context:
For information regarding the functional operation of the NH3 sensor **B-9110** and the NH3 Control Unit **A-9101** refer to **Ammonia (NH3) sensor - Dynamic description (55.988)**. The NH3 Control Unit **A-9101** is required to report information at regular intervals to the Engine Control Unit (ECU) **A-9000** via Controller Area Network (CAN). If the information from the NH3 sensor **B-9110** or the ECU **A-9000** is not communicated within the allotted time frame, this fault will occur.

Cause:
The NH3 Control Unit **A-9101** has reported, via CAN, that a NH3 sensor **B-9110** or ECU **A-9000** message timeout has occurred.

Possible failure modes:

1. Faulty NH3 sensor **B-9110** to NH3 Control Unit **A-9101** harness (cable), damaged connector or wiring.
2. Faulty CAN wiring, open or short circuit.
3. Faulty NH3 sensor **B-9110**, internal damage.
4. Faulty NH3 Control Unit **A-9101**, hardware or firmware.
5. Faulty ECU **A-9000**, software.

Solution:

1. Verify fault is present and active.

   Use the Electronic Service Tool (EST) to check the status of this fault.

   A. If the fault is present and active, continue with Step **2**.

   B. If the fault is no longer present or in an inactive state, the fault may be intermittent and not currently active. Continue with Step **7**.
2. Verify proper and secure connection to the NH3 Control Unit **A-9101**.

   Disconnect and reconnect the NH3 sensor **B-9110** to NH3 Control Unit **A-9101** harness (cable) connector **X-9137** and the NH3 Control Unit **A-9101** vehicle (VE) harness connector **X-9132**.

   Then check to see that the fault is resolved.

   A. If the fault is resolved, return the machine to service.

   B. If the fault is not resolved, continue with Step **3**.
3. Determine the condition of the NH3 Control Unit **A-9101** CAN circuit.

   Disconnect the vehicle (VE) harness from the NH3 Control Unit **A-9101** at connector **X-9132**.

   Use a multimeter to measure the resistance of the CAN connection on the vehicle (VE) harness side:

From	To	Value
X-9132 pin 2	**X-9132 pin 3**	There should be **60 Ω**.

   A. If the measured resistance is correct, continue with Step **5**.

   B. If the measured resistance is not correct, continue with Step **4**.
4. Check for other engine After Treatment System (ATS) CAN faults.

   Use EST to determine if other ATS CAN faults exist.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

3882-(DTC 777D)-Supply UB2 short to ground failure

Control Module : RCU

Context:
The Electronic Control Unit (ECU) **A-9000**, monitors the supply UB2 circuit. If the **A-9000** detects that the UB2 supply circuit has a short to ground condition, this fault will occur.

Cause:
The **A-9000** has detected a short to ground in the supply UB2 circuit.

Possible failure modes:

1. Faulty supply UB2 circuit, short to ground condition.
2. Faulty **A-9000**, software.

Solution:

1. Verify fault is present and active.

   Use the Electronic Service Tool (EST) to check the status of this fault.

   A. If the fault is present and active, continue with **2**.

   B. If the fault is no longer present or in an inactive state, the fault may be intermittent and not currently active. Continue with Step **4**.
2. Check the supply UB2 circuit for a short to ground condition.

   Disconnect connector **X-9001** from the **A-9000**.

   The key must be in OFF position.

   Use a multimeter to perform the following continuity check:

From	To	Value
X-9001 pin 74	All pins in connector **X-9001**	There should be no continuity.

   A. If there is continuity, there is a short circuit condition in the supply UB2 circuit. Locate and repair the shorted conductor.

   B. If there is no continuity, leave the connector disconnected and continue to Step **3**.
3. Check the supply UB2 circuit for a short to ground condition.

   The key must be in the OFF position.

   Use a multimeter to perform the following continuity test:

From	To	Value
X-9001 pin 74	Chassis ground	There should be no continuity.

   A. If there is continuity, there is a short to ground in the supply UB2 circuit. Locate and repair the shorted conductor.

   B. If there is no continuity, check the ECU **A-9000** for the appropriate software and re-flash, if necessary.
4. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while you monitor the display.

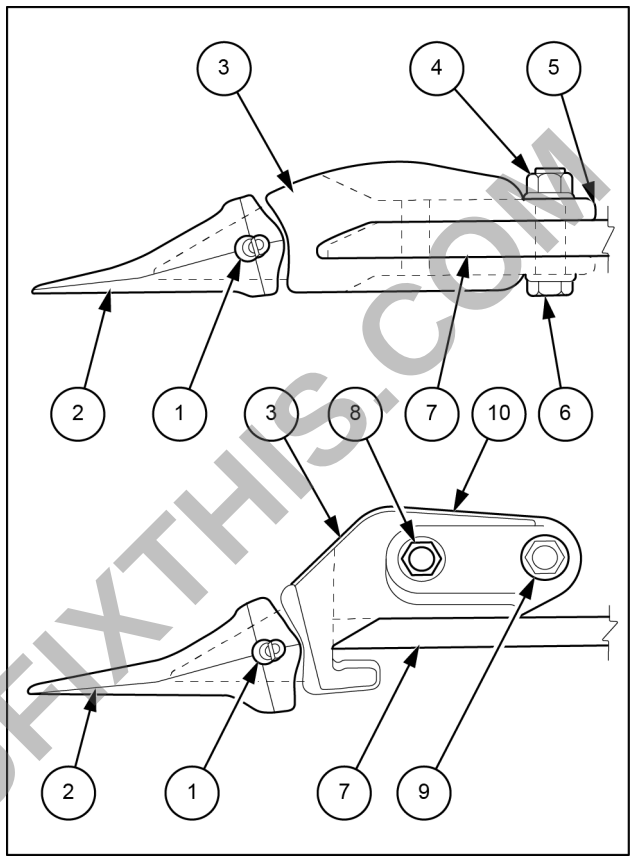
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Bucket - Replace - Bucket teeth

Replacement of the Tooth Points

1. Use a hammer and punch to drive the retaining pin **(1)** for the tooth point **(2)** out of the tooth shank **(3)**, refer to the illustration on this page.
2. Remove the tooth point **(2)**.
3. Install a new tooth point **(2)** on the tooth shank **(3)**.
4. Install the retaining pin **(1)** into the tooth point **(2)** and tooth shank **(3)**. Make sure the shoulder on the retaining pin is toward the cutting edge. Use a hammer to hit the retaining pin **(1)** until the retaining pin **(1)** is even with the outside of the tooth shank **(3)**.



LEIL13WHL1147BB 1

Replacement of the Bucket Teeth

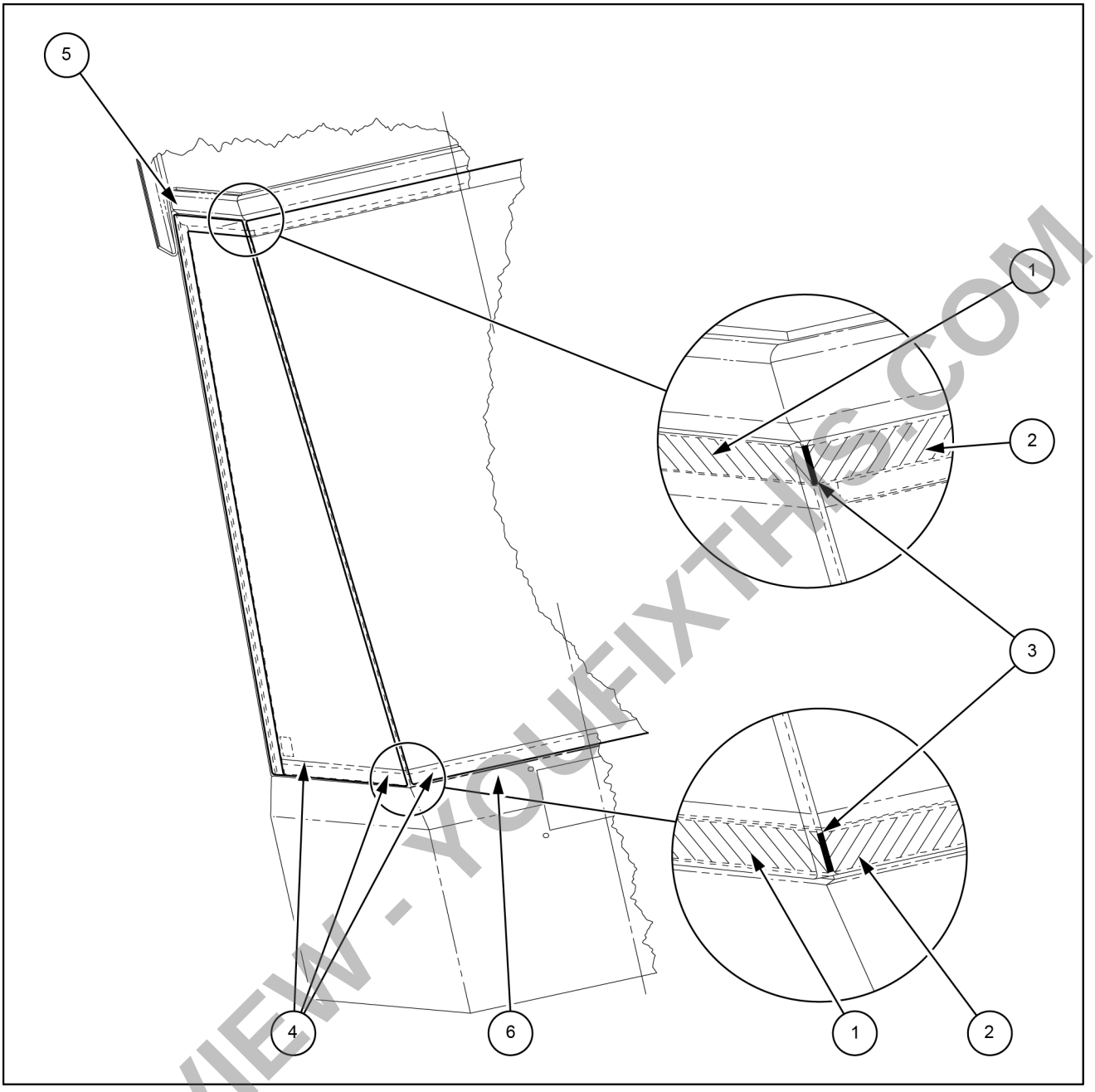
1. Loosen and remove the nuts **(4)**, hardened washers **(5)**, and bolts **(6)** from the bucket teeth.

NOTE: *If wear of the bolt or nut makes removal difficult, the bolt or nut can be cut off.*

2. Remove the tooth.
3. Install the new tooth on the bucket cutting edge **(7)**.
4. Use new nuts **(4)**, hardened washers **(5)**, and bolts **(6)** for the tooth being installed.
5. Tighten the nuts **(4)** to **1315 - 1480 N·m** (**969 - 1092 lb ft**) .

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



LEIL13WHL1178GB 3

1. Side glass adhesive
2. Center glass adhesive
3. Apply extra adhesive here when replacing both center and side panels
4. Right hand side glass spacer locations
5. Apply gray silicone sealant down **50 mm** (2 inches) from top of front side glass
6. Apply gray silicone sealant along bottom edge of center glass

NOTE: *After completing the installation, DO NOT slam the cab door. The increased air pressure may break the seal on newly installed glass. DO NOT operate the machine for a period of 12 hours, allowing the adhesive and silicone to properly set.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIAL TOOL INDEX

Genuine	Reference	PAGE
380100001 [Bearing Cup Installer]	Bevel gear set and differential carrier - Backlash - Models MT-L 3085 II / MT–L 3095 II	25.2 / 6
CAS2842 [Pinion Locknut Wrench]	Bevel gear set and differential carrier - Backlash - Models MT-L 3085 II / MT–L 3095 II	25.2 / 8
380001546 [Flange Holder]	Bevel gear set and differential carrier - Backlash - Models MT-L 3085 II / MT–L 3095 II	25.2 / 8
380100001 [Bearing Cup Installer]	Bevel gear set and differential carrier - Backlash Model 3105 II	25.2 / 14
CAS2842 [Pinion Locknut Wrench]	Bevel gear set and differential carrier - Backlash Model 3105 II	25.2 / 16
CAS2842 [Pinion Locknut Wrench]	Differential - Remove - MT-L 3095 II	25.2 / 25
380001546 [Flange Holder]	Differential - Remove - MT-L 3095 II	25.2 / 25
CAS2842 [Pinion Locknut Wrench]	Differential - Install - Model MT-L 3095 II	25.2 / 27
380001546 [Flange Holder]	Differential - Install - Model MT-L 3095 II	25.2 / 27
CAS2841 [Pinion Shaft Seal Installer]	Differential - Install - Model MT-L 3095 II	25.2 / 27
CAS2842 [Pinion Locknut Wrench]	Differential - Install - Model MT-L 3095 II	25.2 / 28
380001546 [Flange Holder]	Differential - Install - Model MT-L 3095 II	25.2 / 28
CAS2842 [Pinion Locknut Wrench]	Differential - Remove Model 3105 II	25.2 / 35
380001546 [Flange Holder]	Differential - Remove Model 3105 II	25.2 / 35
CAS2842 [Pinion Locknut Wrench]	Differential - Install Model 3105 II	25.2 / 37
CAS2841 [Pinion Shaft Seal Installer]	Differential - Install Model 3105 II	25.2 / 37
CAS2842 [Pinion Locknut Wrench]	Differential - Install Model 3105 II	25.2 / 38
380001546 [Flange Holder]	Differential - Install Model 3105 II	25.2 / 38
380100001 [Bearing Cup Installer]	Bevel gear - Backlash - Models MT-L 3085 II / MT–L 3095 II	27.2 / 4
CAS2842 [Pinion Locknut Wrench]	Bevel gear - Backlash - Models MT-L 3085 II / MT–L 3095 II	27.2 / 6
380001546 [Flange Holder]	Bevel gear - Backlash - Models MT-L 3085 II / MT–L 3095 II	27.2 / 6
CAS2842 [Pinion Locknut Wrench]	Differential - Remove - Models MT-L 3085 II / MT-L 3095 II	27.2 / 16
380001546 [Flange Holder]	Differential - Remove - Models MT-L 3085 II / MT-L 3095 II	27.2 / 16
CAS2842 [Pinion Locknut Wrench]	Differential - Install - Models MT-L 3085 II / MT-L 3095 II	27.2 / 18
380001546 [Flange Holder]	Differential - Install - Models MT-L 3085 II / MT-L 3095 II	27.2 / 18
CAS2841 [Pinion Shaft Seal Installer]	Differential - Install - Models MT-L 3085 II / MT-L 3095 II	27.2 / 18
CAS2842 [Pinion Locknut Wrench]	Differential - Install - Models MT-L 3085 II / MT-L 3095 II	27.2 / 19
380001546 [Flange Holder]	Differential - Install - Models MT-L 3085 II / MT-L 3095 II	27.2 / 19

PREVIEW - YOUFIXTHIS.COM

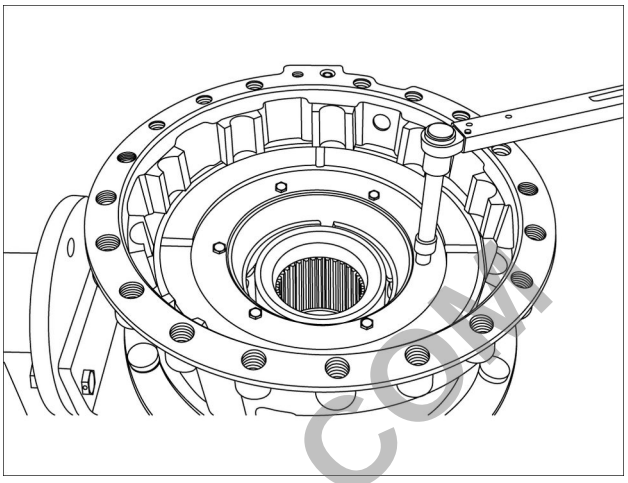
Download full manual at youfixthis.com

[55.302] Battery 55.3
[55.011] Fuel tank system 55.4
[55.988] Selective Catalytic Reduction (SCR) electrical system 55.5
[55.989] Exhaust Gas Recirculation (EGR) electrical system 55.6
[55.012] Engine cooling system 55.7
[55.519] Cab brake controls 55.8
[55.030] Service brake electrical system 55.9
[55.031] Parking brake electrical system 55.10
[55.512] Cab controls 55.11
[55.051] Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls 55.12
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system 55.13
[55.047] Steering control system 55.14
[55.530] Camera 55.15
[55.518] Wiper and washer system 55.16
[55.514] Cab lighting 55.17
[55.408] Warning indicators, alarms, and instruments 55.18
[55.DTC] FAULT CODES 55.19
Front loader and bucket 82
[82.300] Bucket 82.1
Platform, cab, bodywork, and decals 90
[90.150] Cab 90.1
[90.156] Cab glazing 90.2
[90.114] Operator protections 90.3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

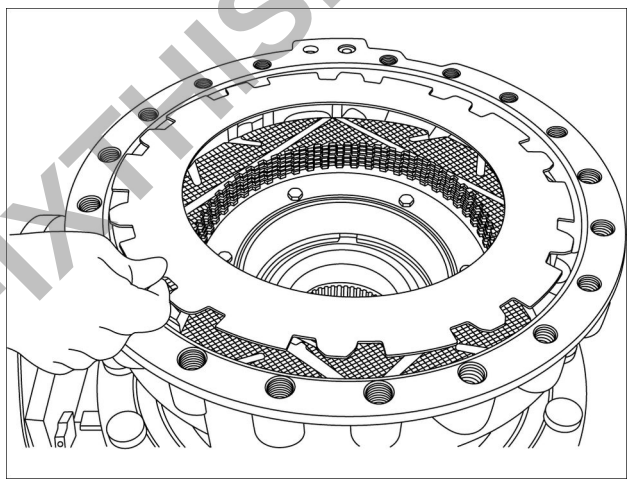
16. Insert cover and secure it by means of hex bolts. Torque to **34 N·m** (**25 lb ft**).



RAIL11WEL0438BA 16

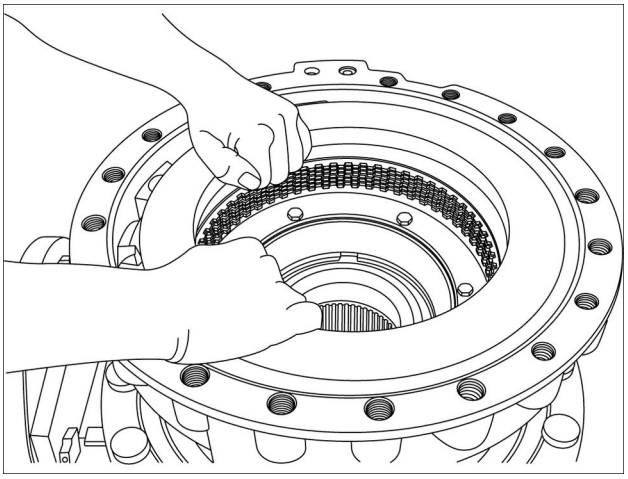
17. Insert outer and inner disks.

NOTE: *For number of disks and disk arrangement, refer to related spare parts list.*



RAIL11WEL0439BA 17

18. Insert end plate.



RAIL11WEL0440BA 18

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

WIRE LIST

WIRE INFORMATION			FROM CONNECTOR		TO CONNECTOR	
WIRE	CIRCUIT REF	COLOR, SIZE	REF DES, DESCRIPTION	CAV	REF DES, DESCRIPTION	CAV
J9	TURN SGNL ENG SHTDWN.	ECA_BUSS	ECA, ELECT CNTR A	L1	ECA, ELECT CNTR A	L1
J11	BLWR MOTOR PWR	ECA_BUSS	ECA, ELECT CNTR A	L2	PRMB_L1, B+ POWER	<s01
J12	BLWR MTR FRNT WIPR WASH	ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J13	FRNT WIPR RER WIPR WSH	ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J14	RER WIPR WSH BACKUP	ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J15	BKUP A/C	ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J16	HEATED MIRRORS	ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J17	SEAT COMP EMG STRTR	ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J18	DIAGNOSTIC PWR	ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J19		ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J20		ECA_BUSS	ECA, ELECT CNTR A	L2	ECA, ELECT CNTR A	L2
J10_ECC		BUSS	ECC, ELECT CNTR C	L1_9	ECC, ELECT CNTR C	L1_10
J2_ECC	BEACON/DOME LT WORK LTS	ECC_BUSS	ECC, ELECT CNTR C	L1_1	ECC, ELECT CNTR C	L1_2
J3_ECC	WORK LTS DRIVING LTS	ECC_BUSS	ECC, ELECT CNTR C	L1_2	ECC, ELECT CNTR C	L1_3
J4_ECC	DRIVING LTS BRK LTS	ECC_BUSS	ECC, ELECT CNTR C	L1_3	ECC, ELECT CNTR C	L1_4
J5_ECC	BRK LTS DLY PWR	ECC_BUSS	ECC, ELECT CNTR C	L1_4	ECC, ELECT CNTR C	L1_5
J6_ECC	DLY PWR HRN	ECC_BUSS	ECC, ELECT CNTR C	L1_5	ECC, ELECT CNTR C	L1_6
J7_ECC	HRN HOD CTRL	ECC_BUSS	ECC, ELECT CNTR C	L1_6	ECC, ELECT CNTR C	L1_7
J9_ECC		ECC_BUSS	ECC, ELECT CNTR C	L1_8	ECC, ELECT CNTR C	L1_9
RAD1	RADIO GND	W0_8_GXL	RAD_J3, RADIO_JUMPER	5	RAD_J1, RADIO_POWER	8
RAD2	12V FSD PWR TO RADIO	W0_8_GXL	RAD_J3, RADIO_JUMPER	12	RAD_J1, RADIO_POWER	7
RAD3	12V FSD PWR TO RADIO	W0_8_GXL	RAD_J3, RADIO_JUMPER	7	RAD_J1, RADIO_POWER	4
RAD4	LEFT SPEAKER GND	W0_8_GXL	RAD_J3, RADIO_JUMPER	3	RAD_J2, SPEAKER	8
RAD5	LEFT SPEAKER	W0_8_GXL	RAD_J3, RADIO_JUMPER	10	RAD_J2, SPEAKER	7
RAD6	NOT USED	W0_8_GXL	RAD_J3, RADIO_JUMPER	4	RAD_J2, SPEAKER	6
RAD7	NOT USED	W0_8_GXL	RAD_J3, RADIO_JUMPER	11	RAD_J2, SPEAKER	5
RAD8	NOT USED	W0_8_GXL	RAD_J3, RADIO_JUMPER	2	RAD_J2, SPEAKER	4
RAD9	NOT USED	W0_8_GXL	RAD_J3, RADIO_JUMPER	9	RAD_J2, SPEAKER	3
RAD10	RIGHT SPEAKER GND	W0_8_GXL	RAD_J3, RADIO_JUMPER	1	RAD_J2, SPEAKER	2
RAD11	RIGHT SPEAKER	W0_8_GXL	RAD_J3, RADIO_JUMPER	8	RAD_J2, SPEAKER	1

PREVIEW - YOUFIXTHIS.COM

33

LEIL13WEL0533JA 1

Download full manual at youfixthis.com

4326-Illegal ID request via CAN

Cause:

1. CAN communication interrupted during normal operation.
2. Faulty reading from component.
3. Connectors not mated fully, pins not pushed into connector fully, bent pin or broken wire at rear of connector.
4. Wiring or circuits open.
5. Wiring or circuits shorted.

Solution:

1. Verify that the fault code is still active, refer to **0000 - Retrieving fault codes, Wheel Loaders**.
   Prior to clearing fault codes write down all fault codes, number of occurrences, and engine hours at last occurrence.

   (1) Turn ignition switch to RUN position.

   (2) Clear all fault codes.

   (3) To check for fault code: Start and operate machine.

   A. NOT OK – Fault code 4326 is recorded again. Go to Step **2**.

   B. OK – Fault is not recorded again. OK for return to service.
2. Check configuration of the AIC and TECM using the EST.

   A. NOT OK – Update AIC or TECM as required, return to Step **1** to confirm elimination of fault.

   B. OK – Go to Step **3**.
3. Replace the transmission controller.

   (1) Remove and replace TECM.

   A. Return to Step 1 to confirm elimination of fault.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 2302 pages

The full manual includes:

- All 2302 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

New Holland W190C, W230C Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual