⚠ Seat belts ⚠

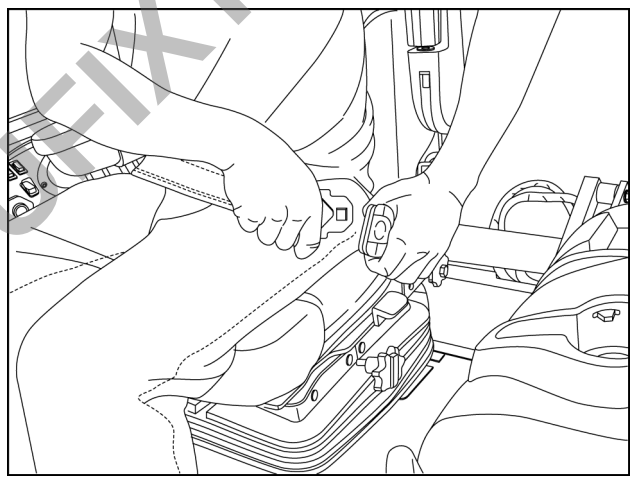
Seat belts must be worn at all times.

Seat belt inspection and maintenance:

- Keep seat belts in good condition.
- Keep sharp edges and items than can cause damage away from the belts.
- Periodically check belts, buckles, retractors, tethers, slack take-up system, and mounting bolts for damage and wear.
- Replace all parts that have damage or wear.
- Replace belts that have cuts that can make the belt weak.
- Check that bolts are tight on the seat bracket or mounting.
- If the belt is attached to the seat, make sure that the seat or seat brackets are mounted securely.
- Keep seat belts clean and dry.
- Clean belts only with soap solution and warm water.
- Do not use bleach or dye on the belts because this can make the belts weak.

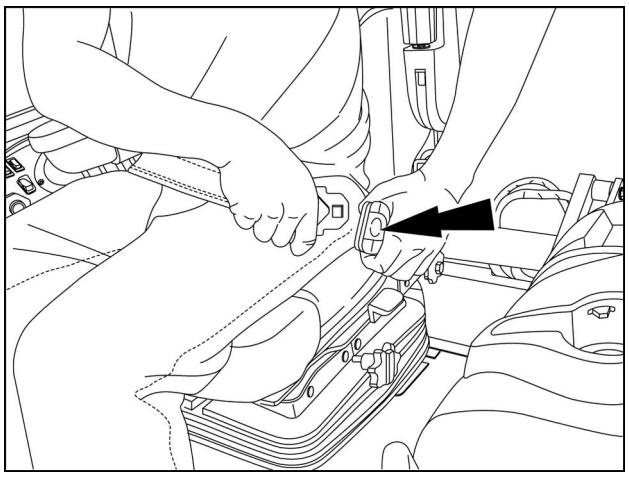
Fasten/release

1. Pull the right-hand belt strap from the retractor.
2. Insert the metal end into the latch mechanism of the left-hand side of the seat.



RAIL14UTL0054BA 1

3. To release, press the red button on the latch mechanism. The seat belt will automatically retract.



RAIL14UTL0054BA 2

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Engine - Change fluid

⚠ WARNING

Avoid injury!
Avoid getting engine oil on your skin. In case of skin contact, wash with running water.
Failure to comply could result in death or serious injury.

W1336B

⚠ WARNING

Pressurized system!
Never attempt to drain fluids or remove filters when the engine is running. Turn off the engine and relieve all pressure from pressurized systems before servicing the machine.
Failure to comply could result in death or serious injury.

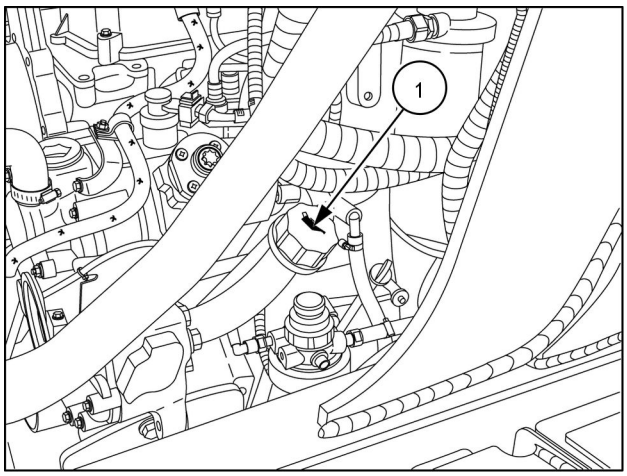
W0905A

1. Move the machine to a level and firm surface.
2. Raise the loader attachment and install the safety support strut.
3. Place the backhoe attachment in the road travel position.
4. Place the direction-of-travel lever and gearshift lever in the neutral position.
5. Engage the parking brake.
6. Stop the engine and remove the starter switch key.
7. Unlock and raise the engine hood.

Engine oil and oil filter - Replace

8. Remove the cap **(1)** from the the filler neck.
9. Place a suitable container under the engine crankcase drain plug located in the engine oil pan.

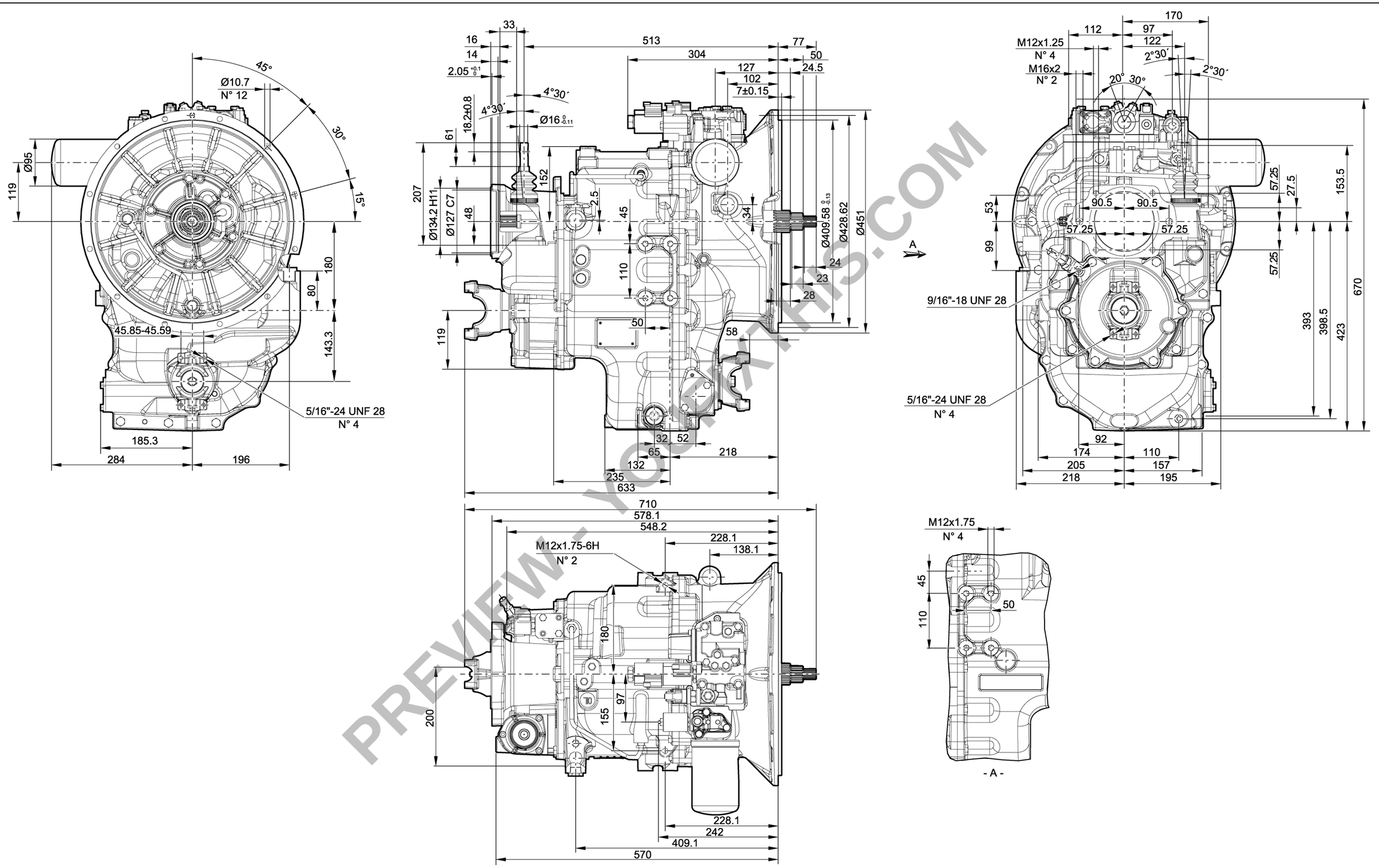
NOTE: *Drain the engine oil when it is still warm. The oil will flow more easily.*



RAIL15TLB0025AA 1

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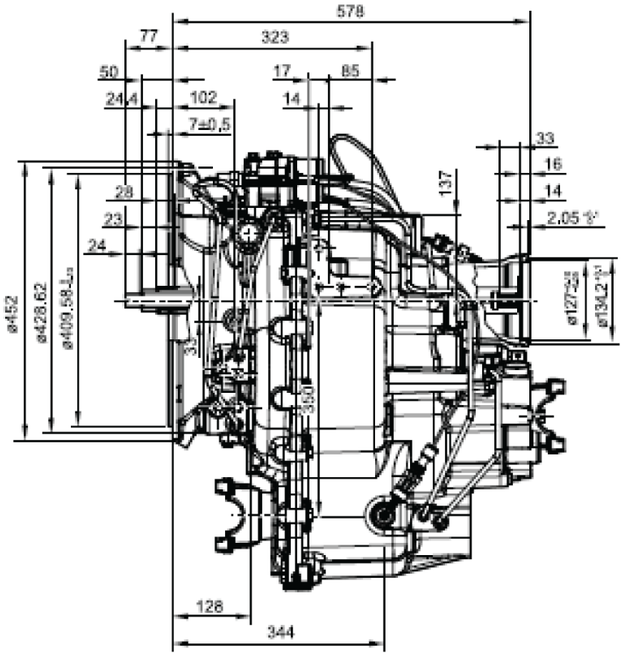
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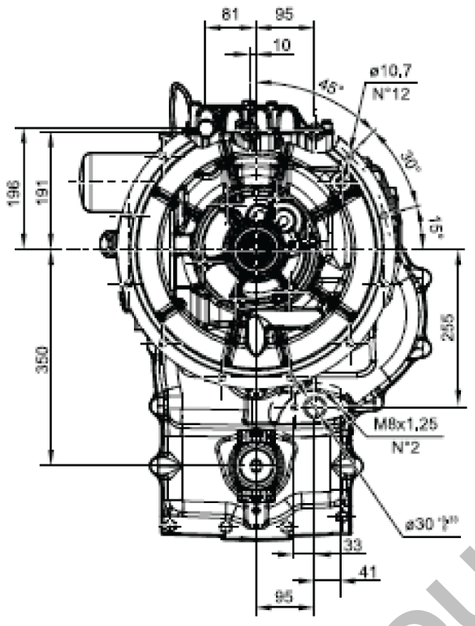


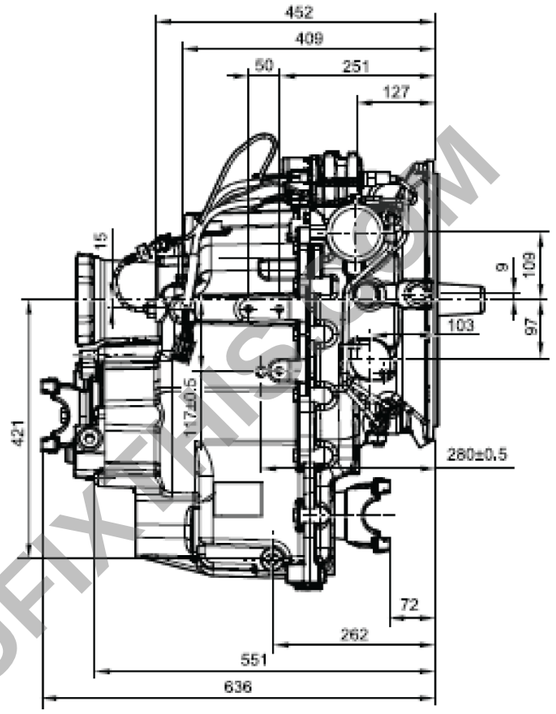
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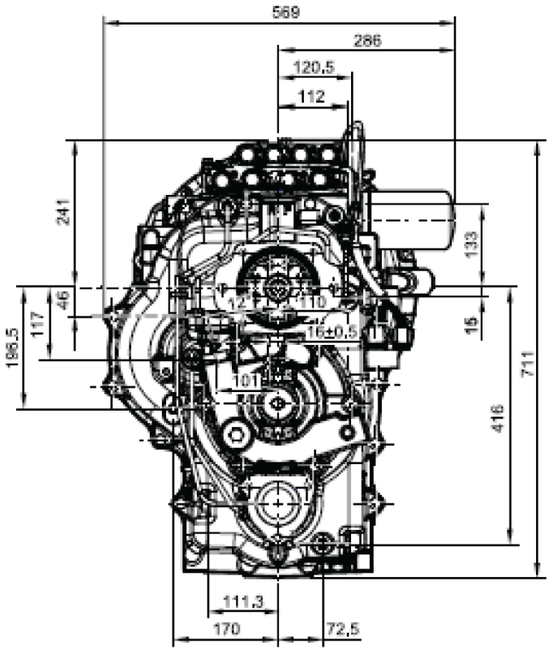
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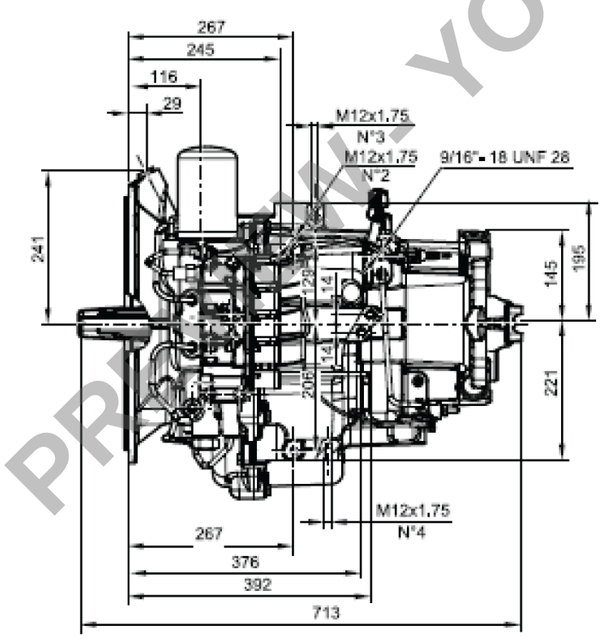
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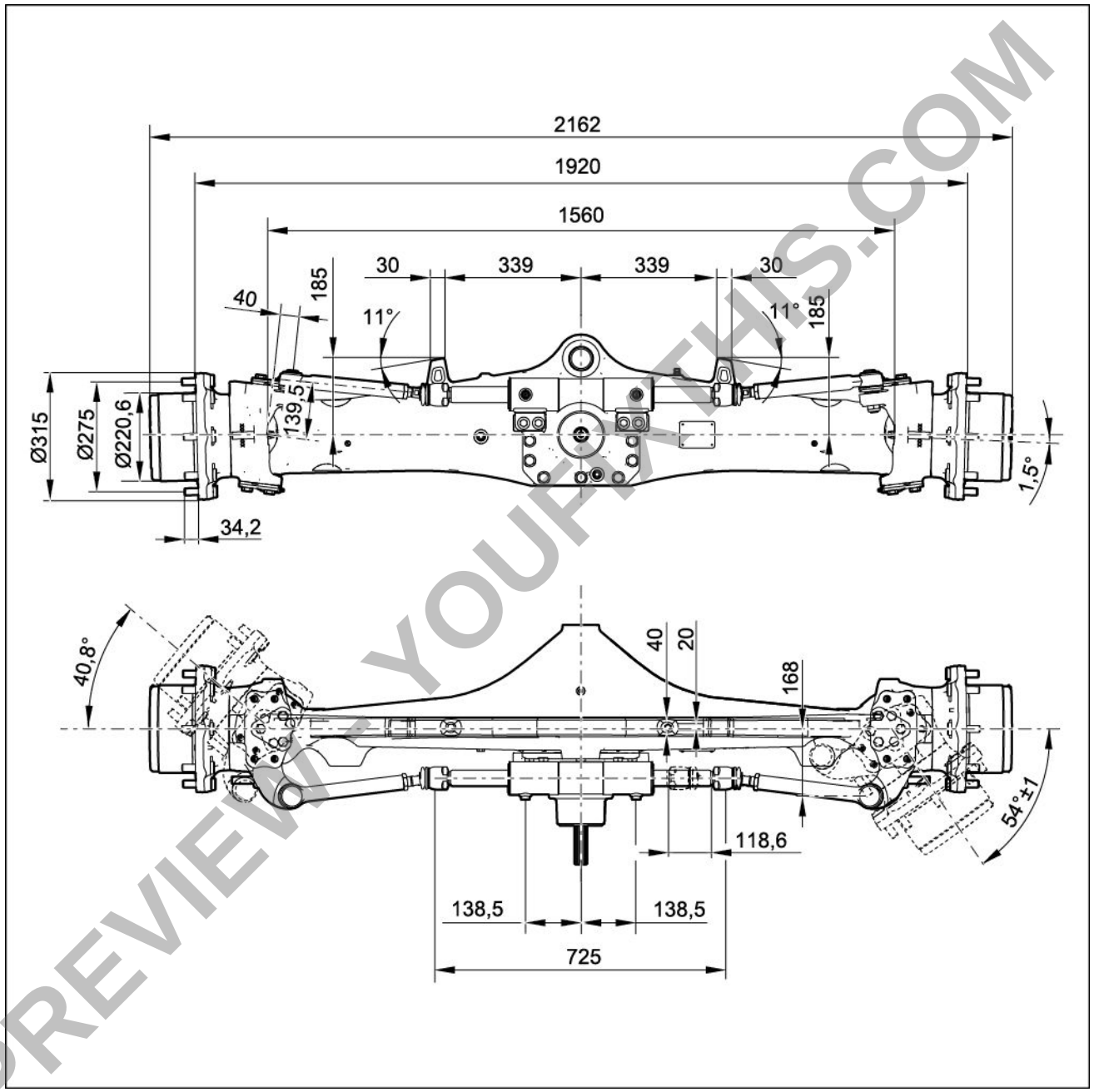
LELI12TLB0757JA 1

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Powered front axle - Dimension

B110C Four-Wheel Drive (4WD) Tier 4B (Final)	NA
B95C Four-Wheel Drive (4WD) Tier 4B (Final)	NA
B95C TC Four-Wheel Drive (4WD) Tier 4B (Final)	NA

4WD – 2WS front axle



LELI12TLB0208GA 1

Technical specifications

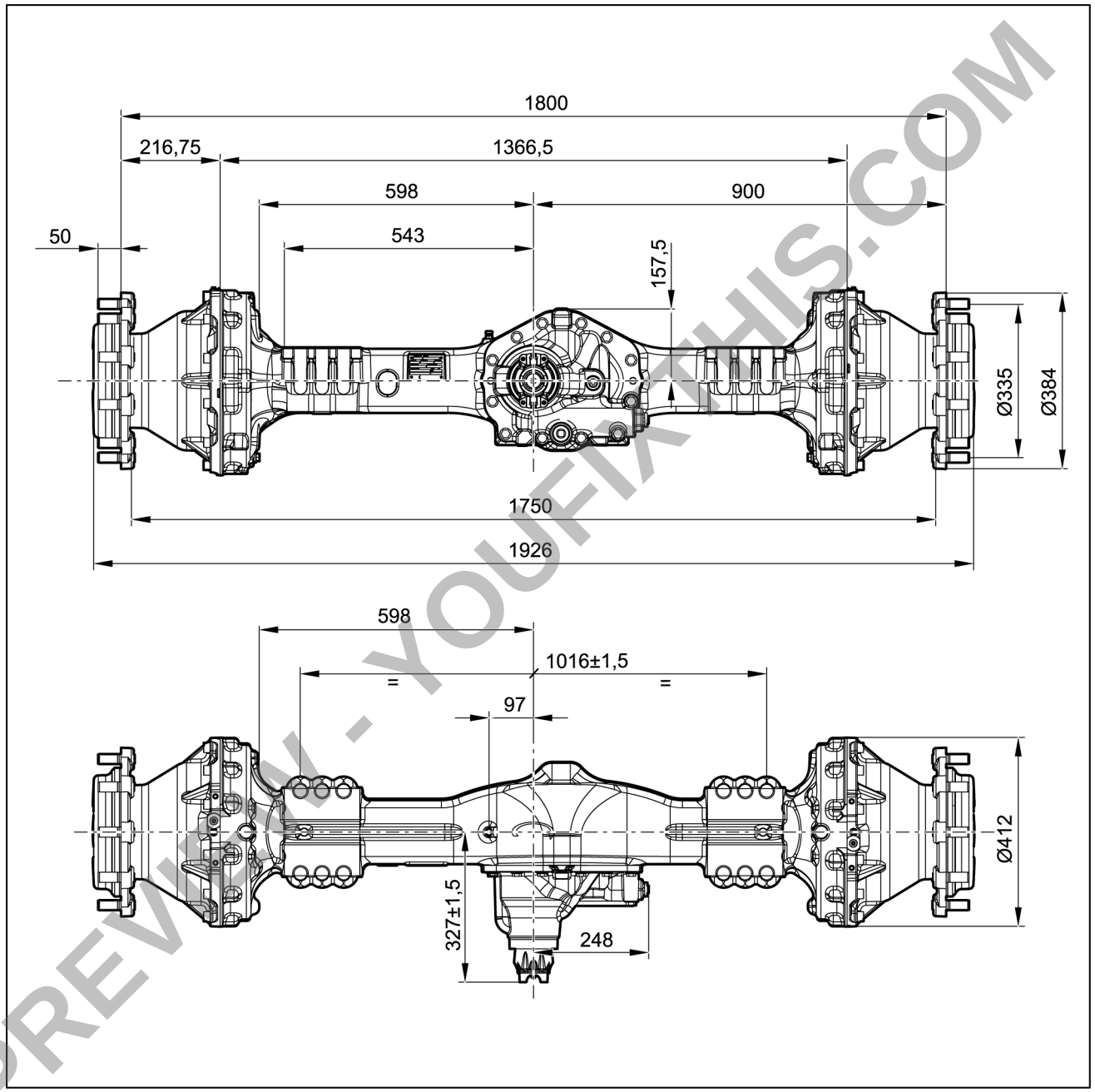
Manufacturer	NEW HOLLAND CONSTRUCTION
Model	Steering
Steering angle	According to the type
Total reduction ratio	According to the type
Lubrication angle	35° maximum (front and rear) - 35° maximum (from side to side)

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Rear axle - General specification

B95C Four-Wheel Drive (4WD) Tier 4B (Final)	NA
B95C TC Four-Wheel Drive (4WD) Tier 4B (Final)	NA
B95C Two-Wheel Drive (2WD) Tier 4B (Final)	NA

2WS Rear axle



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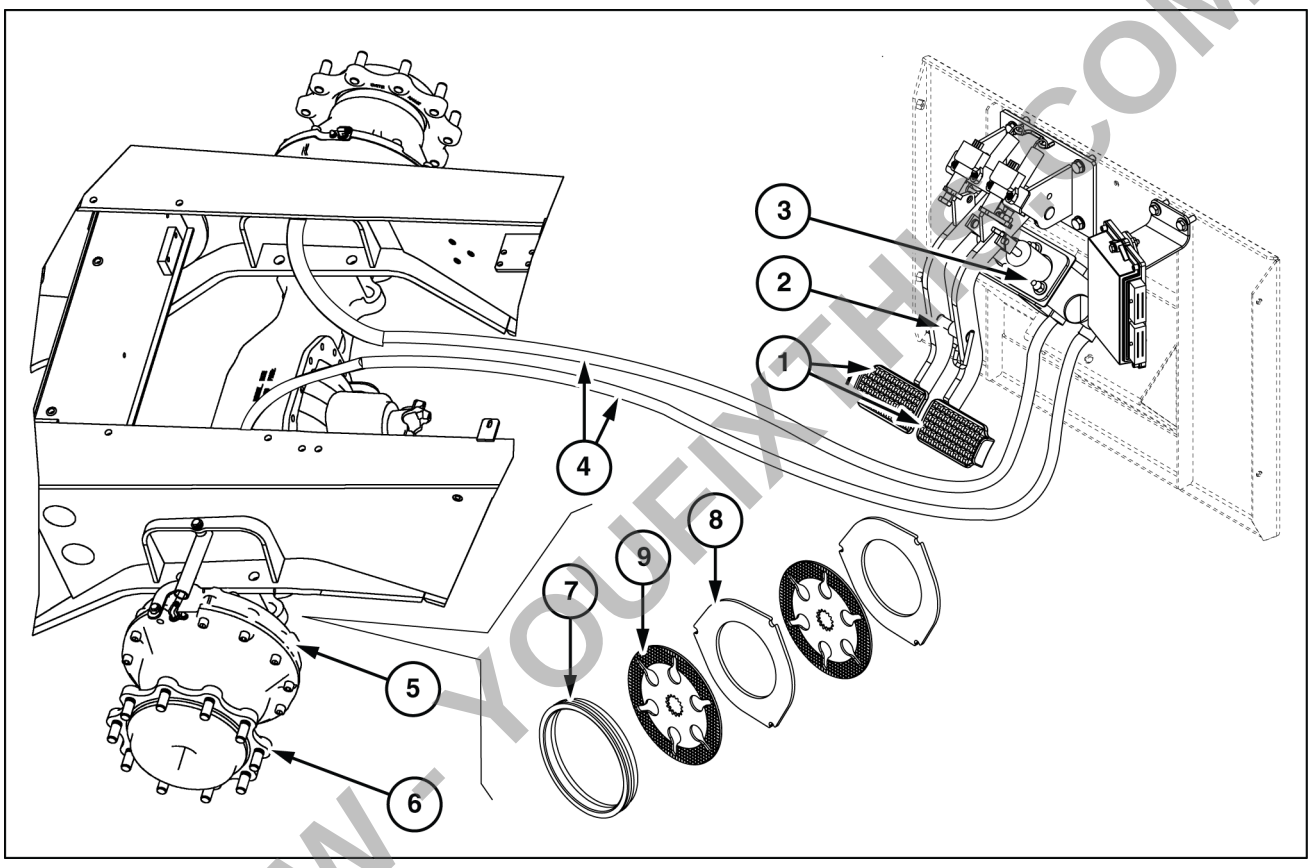
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Hydraulic service brakes - Dynamic description

Operation

This system essentially consists of:

- Brake pedals (in the cab).
- Brake master cylinder and hydraulic hoses
- Hydraulically operated wet disc brakes in the rear axle.



LELI12TLB0421FB 1

The brake pedals **(1)** are provided with the locking pin **(2)** to lock the two pedals **(1)** together. Locking and unlocking the brake pedals **(1)** together enables the following functions:

- The machine braking – When the pedals are locked together
- The machine turning – When the pedals are not locked together and by pushing only one pedal.

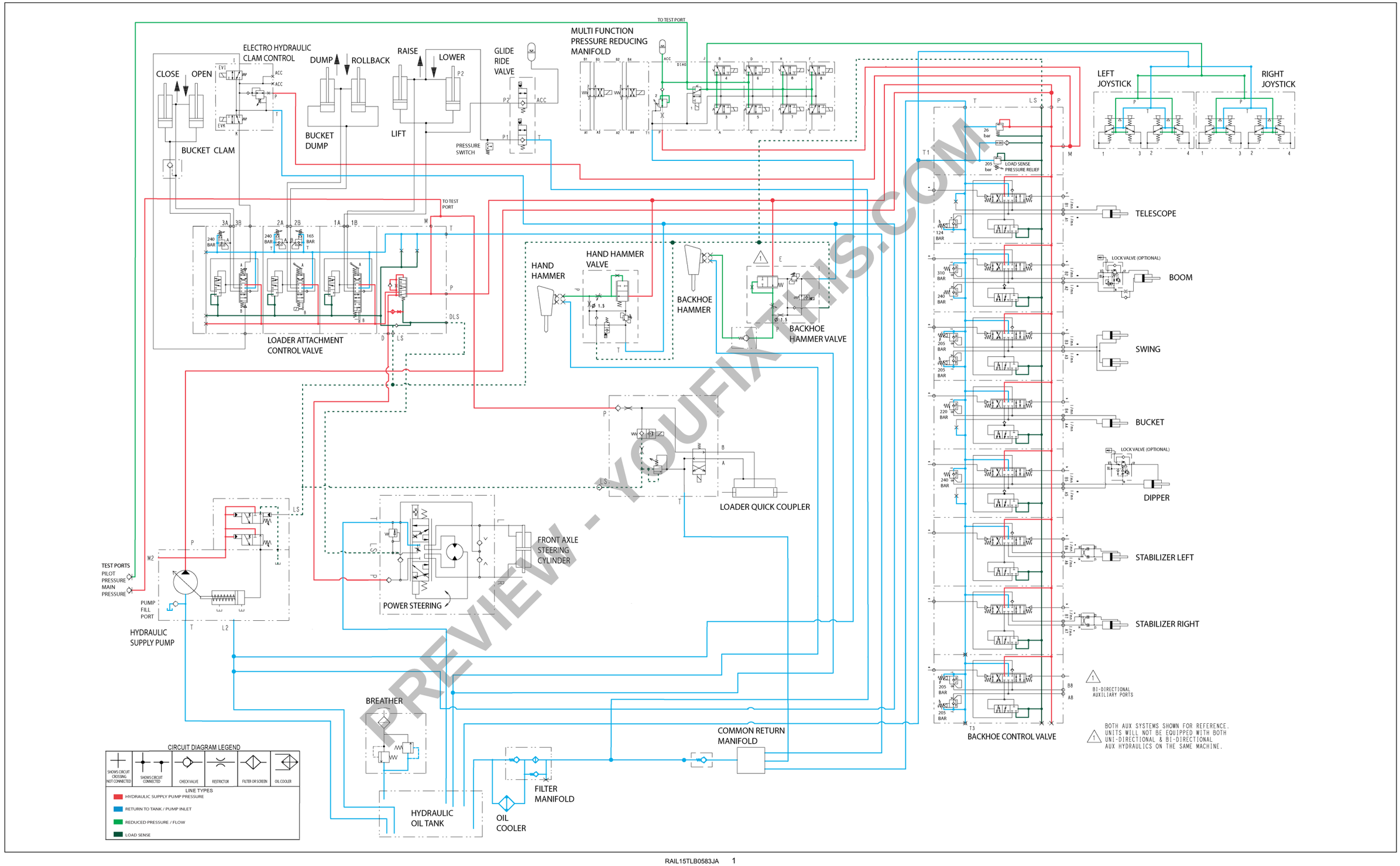
When the brake pedals **(1)** are pressed, the brake master cylinders **(4)** delivers pressurised hydraulic oil to the brake unit **(5)** of the rear axle **(6)**.

In the brake unit, when the pressure is applied to the brake piston **(7)**, the piston **(7)** compresses the brake friction discs **(9)** and the brake separator plates **(8)**. This prevents the axle drive shaft from rotating and the machine stops.

NOTE: *This illustration shows the 2WS rear axle, the operation of the 4WS rear axle is the same.*

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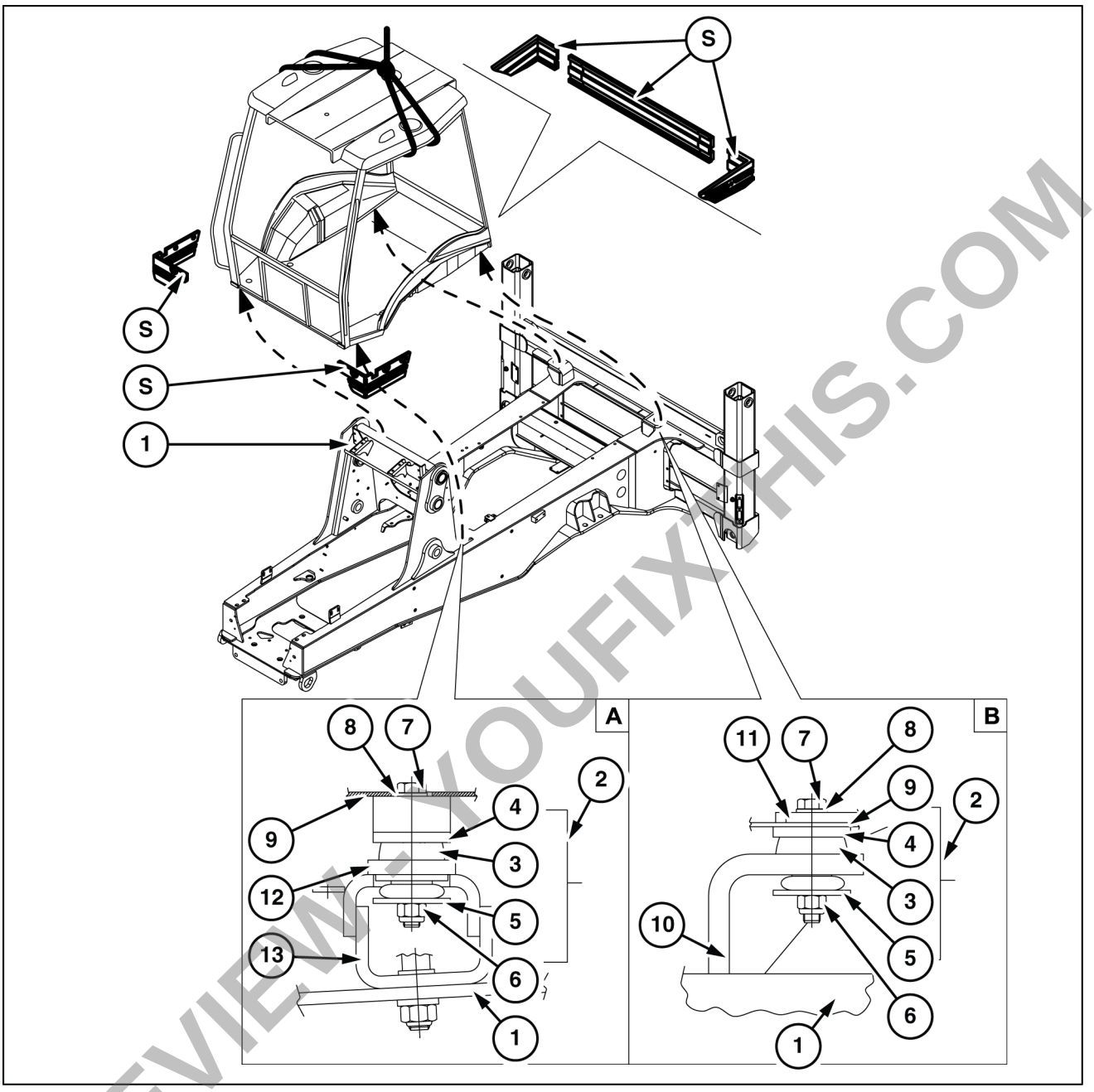


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Frame - Remove



LELI12TLB2259GB 1

A. Front coupler
B. Rear coupler
C. Cab skirts
1. Main frame
2. Anti-vibration
3. Dampener
4. Washer
5. Washer
6. Nut
7. Retaining screw
8. Washer
9. Cab floor
10. Cab support (rear)
11. Support
12. Bushing
13. Cab support (front)

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Heating - Dynamic description

Air flow diffusers

Air flow diffusers are connected to the heating unit and receive air from the blower motor, to direct warm or cold air onto the windscreen and side windows or to the cab interior as required.

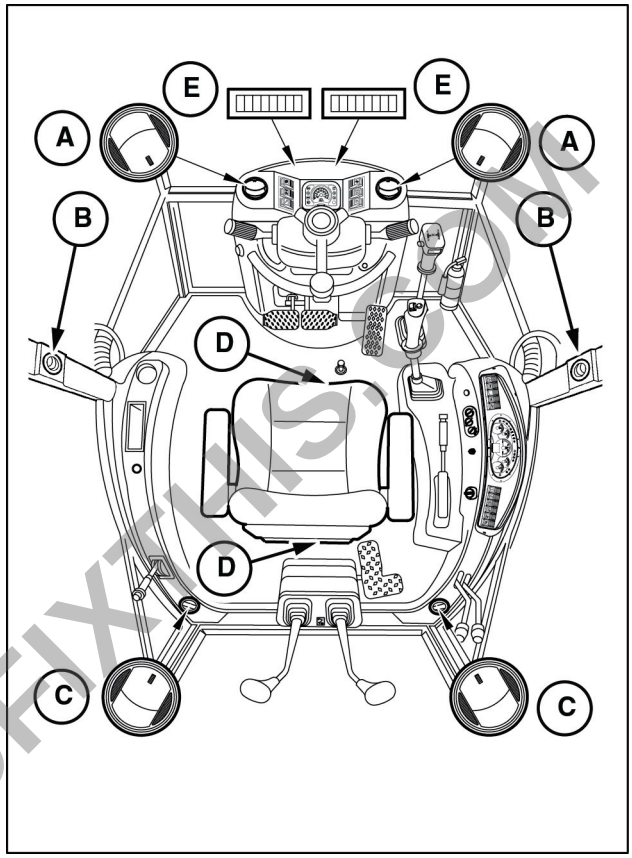
Each diffuser may be swivelled and adjusted to control the flow of air.

To open a diffuser, press one side of the disc and turn it, as required, to direct the air flow.

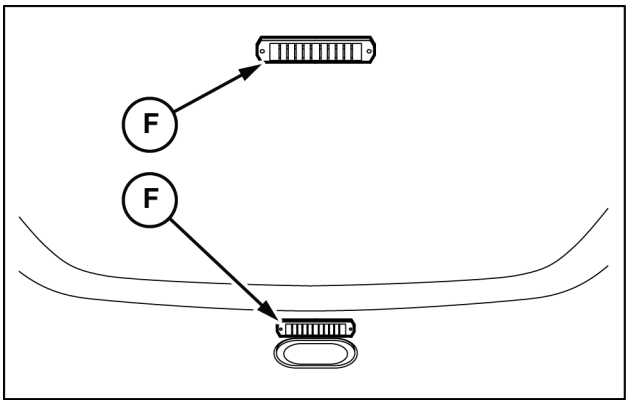
The diffusers are located as follows:

- Two on the top of the main dashboard **(A)**.
- Two on the front edge of the front instrument panel **(E)**.
- Two to the rear of the operator seat **(C)**.
- Two under the seat, one in front, the other on the rear **(D)**.
- Two on the cab posts, right and left **(B)**.
- Two on the ceiling, in front and back of operator's head **(F)**.

NOTE: *The diffusers **(B)** and **(F)** are present only if the machine has air-conditioning installed.*



LELI12TLB1949BB 1



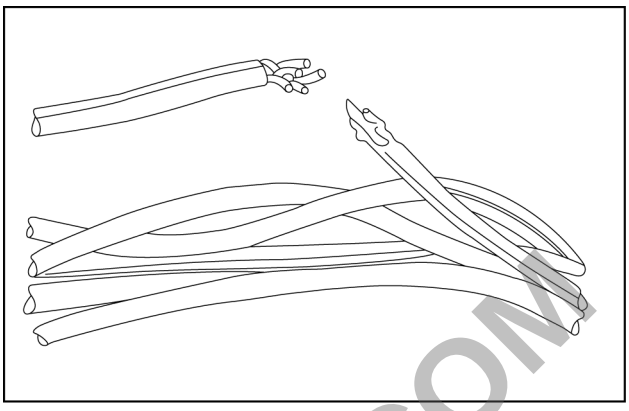
LELI12TLB1950AB 2

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Open circuit

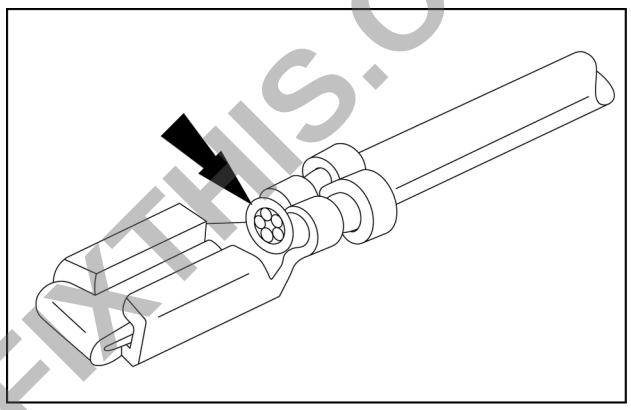
- A cut or broken wire.



RAIL14SSL0589AA 2

Open circuit

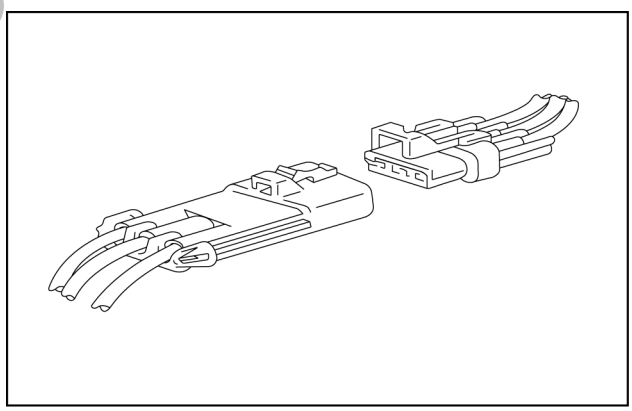
- There is no contact between the wire(s) and the terminal due to the insulation not being properly removed or positioned when the terminal was fastened to the wire(s) .



RAIL14SSL0595AA 3

Open circuit

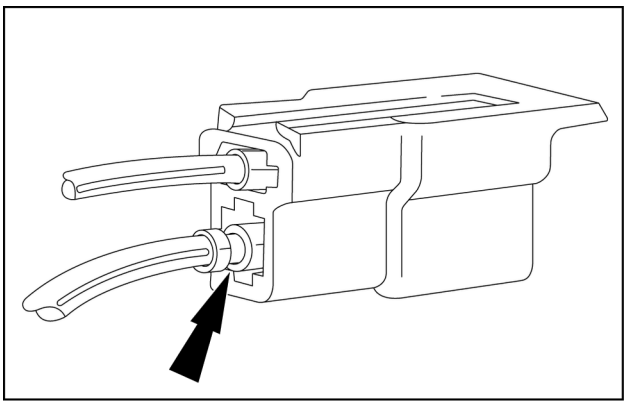
- Completely disconnected connectors do not make contact with the terminals.



RAIL14SSL0600AA 4

Open circuit

- The terminal is not positioned properly or did not stay inside the connector.

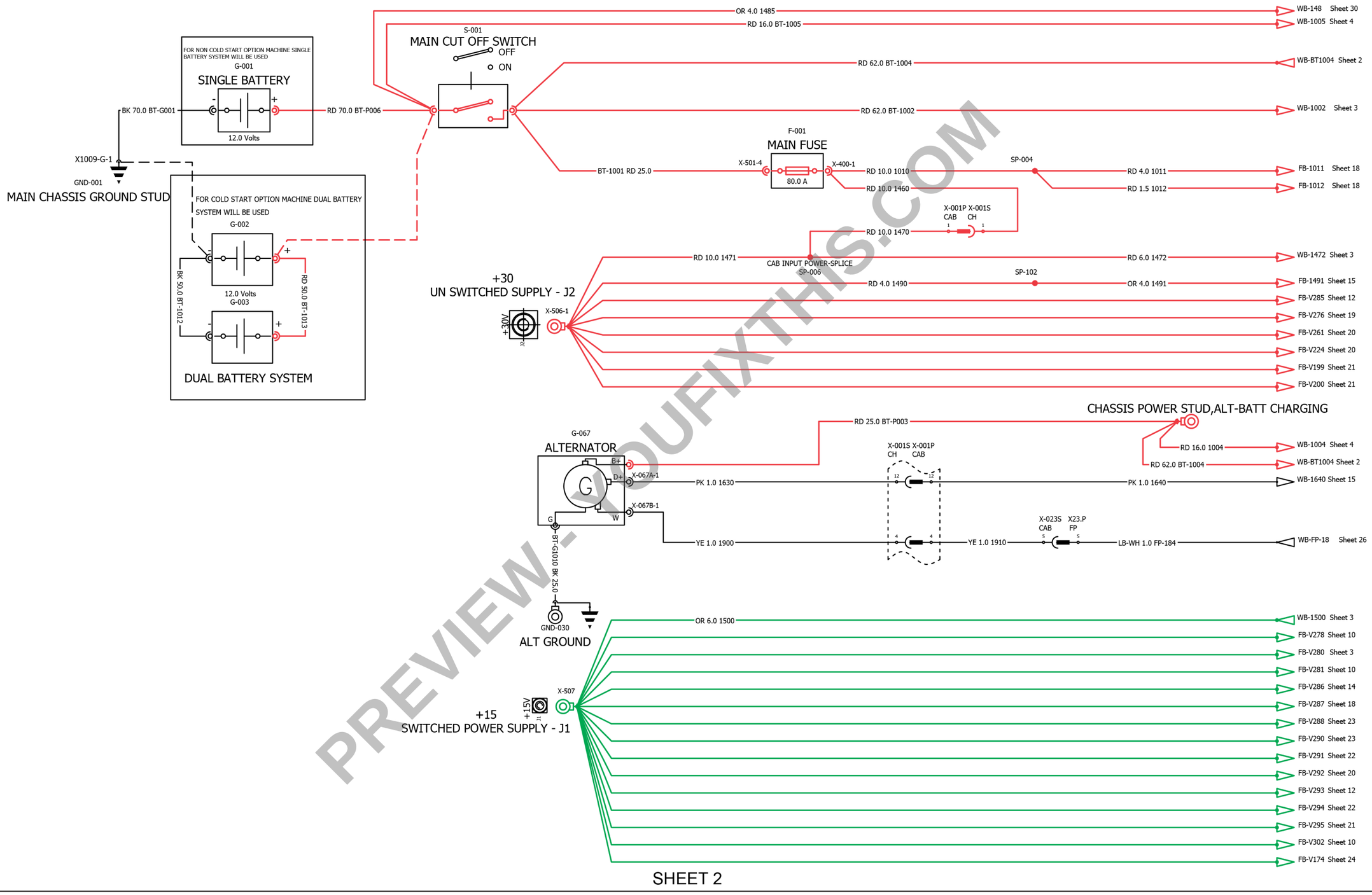


RAIL14SSL0601AA 5

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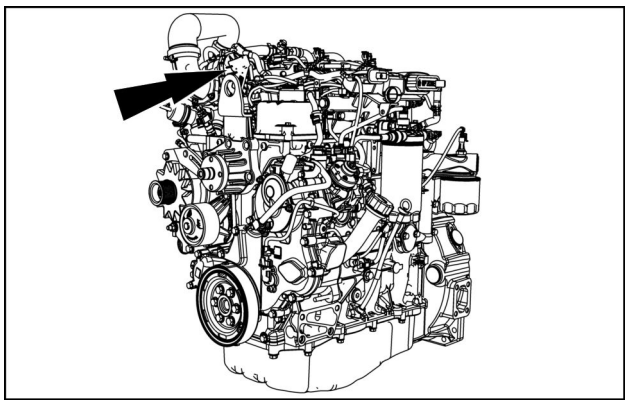
POWER DISTRIBUTION - CHARGING SYSTEM



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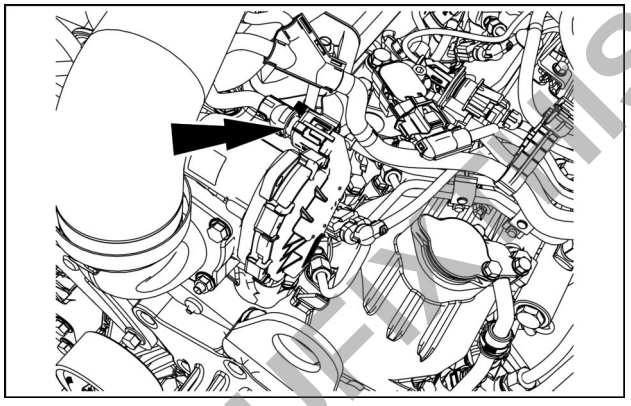
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NHIS14ENG0977AA 3

Connector X-9011 is located at the top front of the engine.

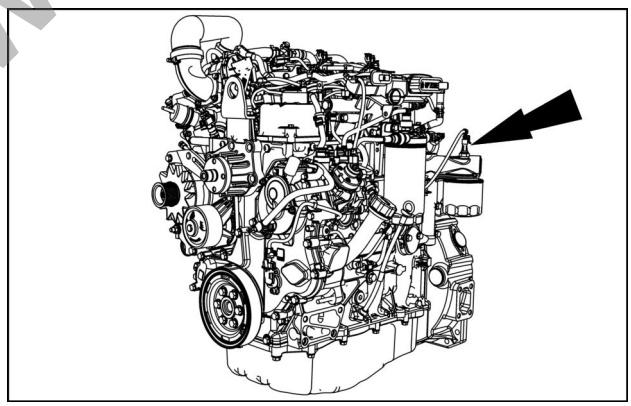


NHIS14ENG0990AA 4

Connector X-9011 is located above the cylinder 1 injector.

Connector X-9016 - Oil pressure switch

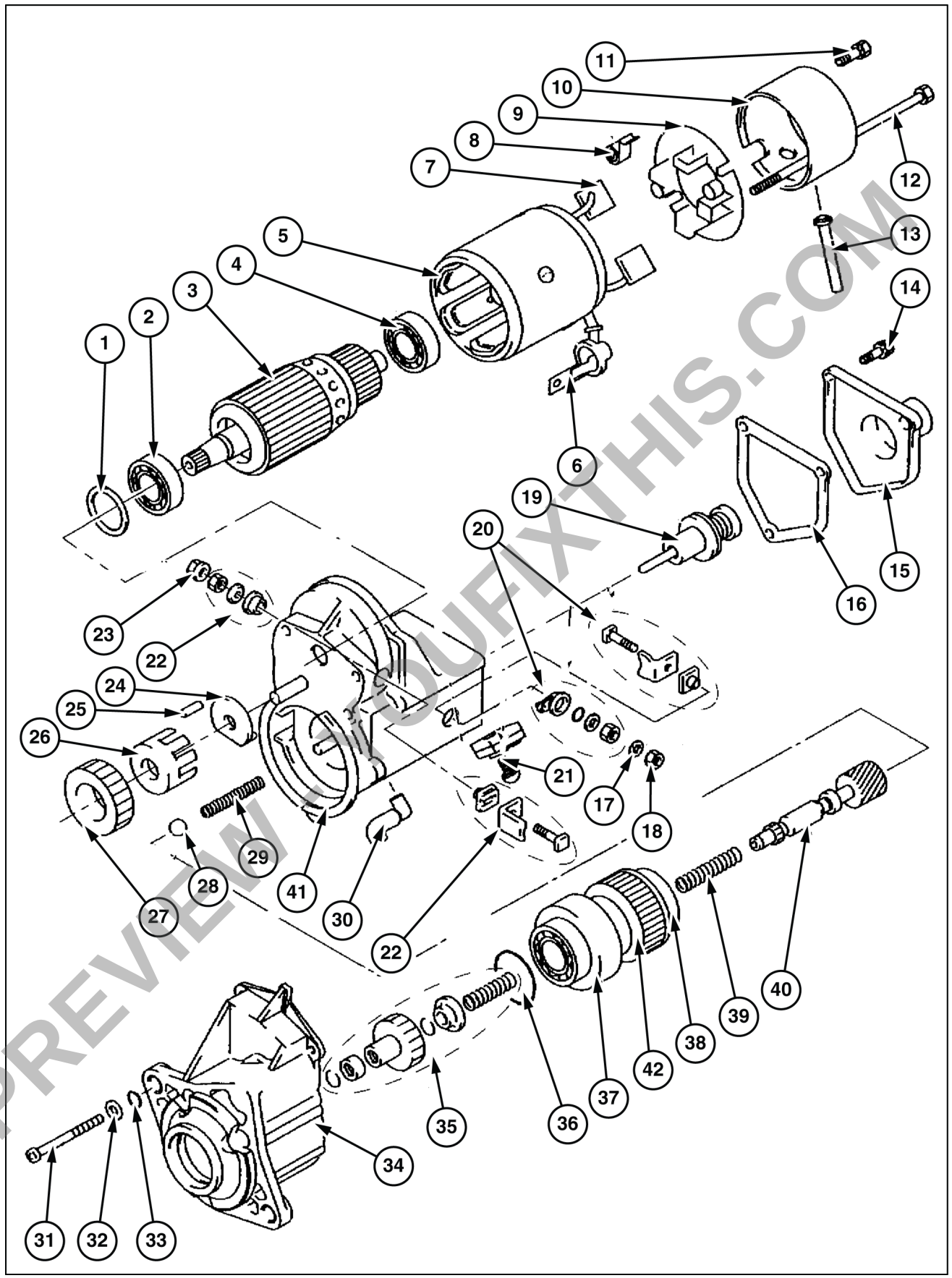
CONNECTOR X-9016 - Oil pressure switch			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	EN-9105	Signal	**SHEET 06**



NHIS14ENG0977AA 5

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LELI12TLB2375HB 2

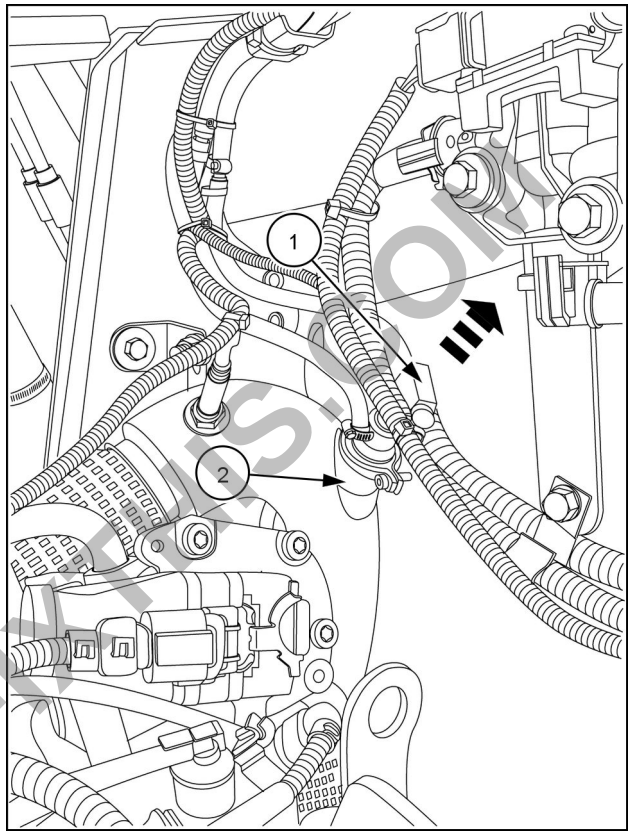
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Diesel Exhaust Fluid (DEF)/AdBlue® dosing module - Remove

NOTICE: *Dosing modules are easily damaged. Make sure that you understand and follow the steps provided.*

1. Disconnect the **DEF/ADBLUE®** pressure line **(1)** from the dosing module **(2)**.
   A. Pinch and hold the white clips on the connector.
   B. Pull the connector away from the dosing module parallel to the axis of the connector. You may damage the tip of the dosing module if you pull the connector off on an angle.



RAIL16TLB0380BA 1

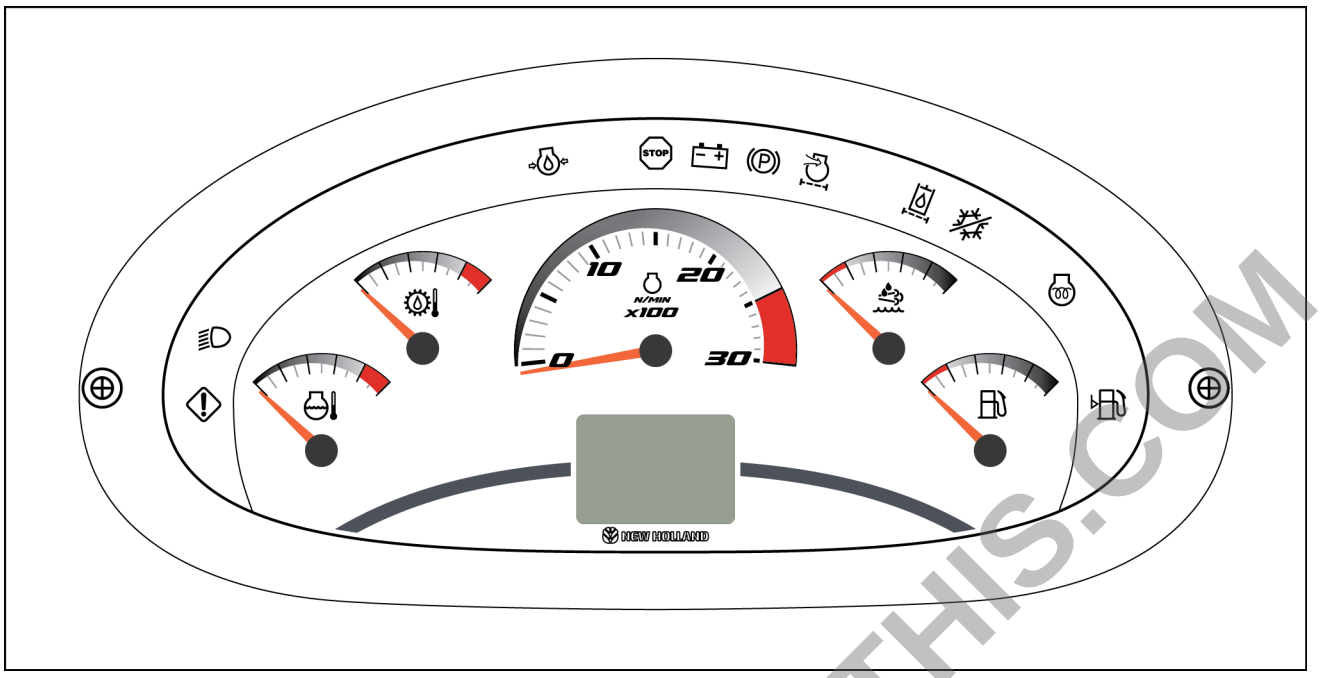
2. Disconnect the electrical connector.
3. Loosen the clamps on both coolant lines and slowly pull the tubes upward off of the dosing module.
4. Loosen the dosing module clamp.

NOTICE: *Prevent coolant and other debris from entering the opening.*

5. Slowly remove the dosing module **(2)** with clamp **(1)**.

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RAIL15TLB0132FA 1

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1090-Vehicle Model ID in VCM is UNCONFIGURED

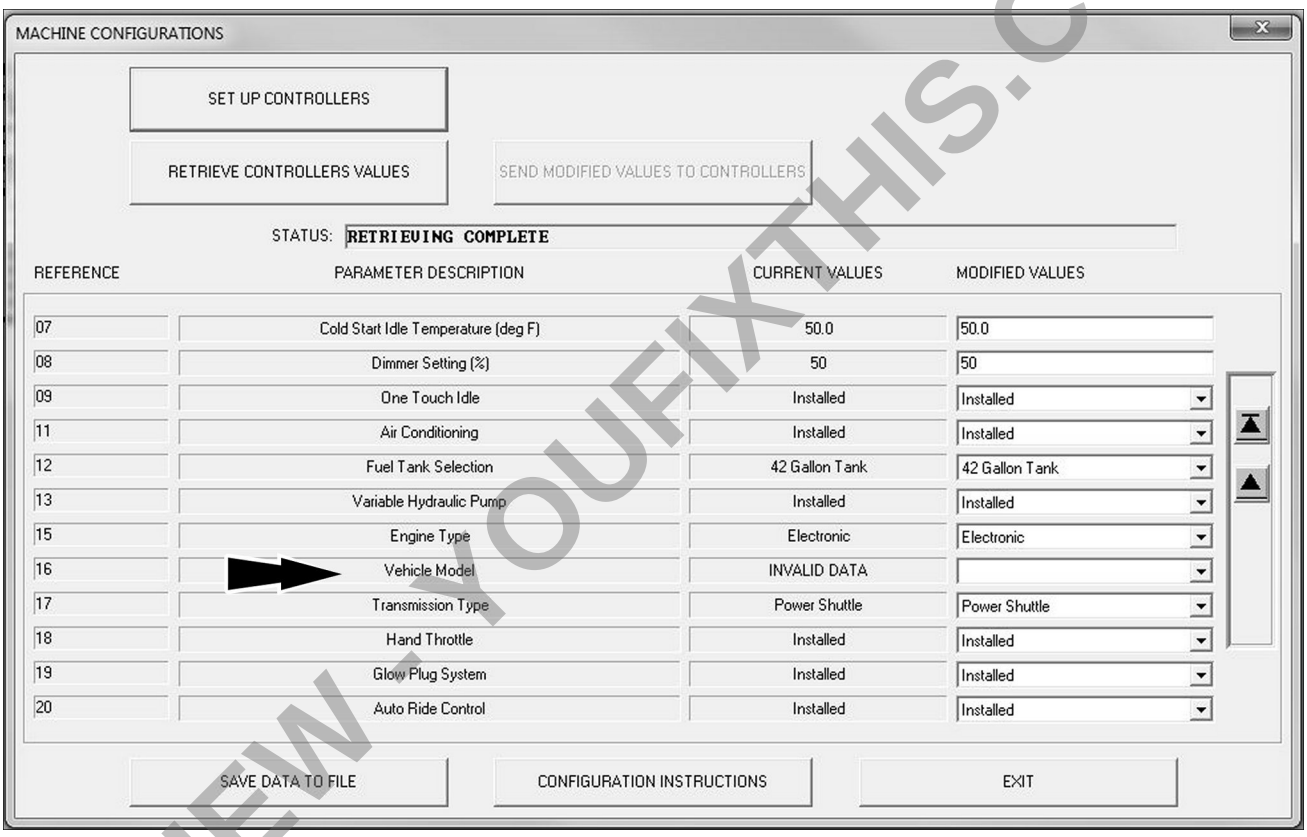
Cause:
The Vehicle Model ID is not programmed in the instrument cluster. One or more parameters in the instrument cluster are not programmed.

Possible failure modes:

1. The instrument cluster is not configured properly.

Solution:

1. Connect the Electronic Service Tool and configure all programmable parameters in the instrument cluster.



RAIL14FRK0188FA 1

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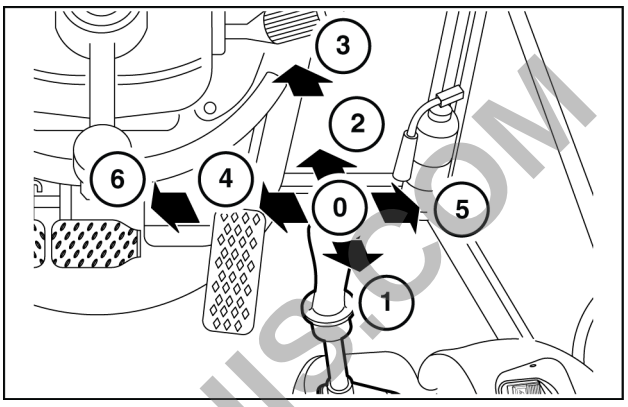
Front loader arm - Dynamic description

Loader attachment operation

Neutral and hold

With the lever in the neutral/hold position **(0)**, the attachment movement can be stopped.

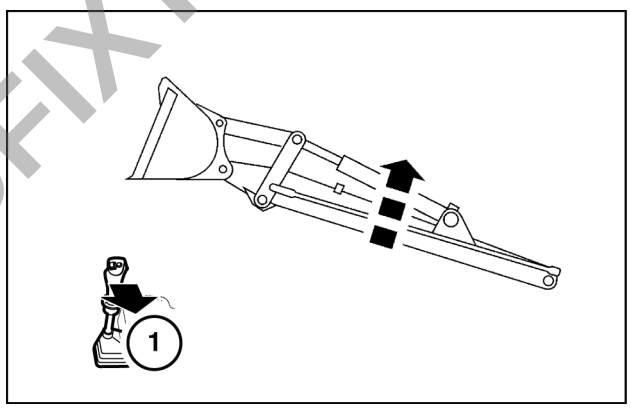
As soon as the lever is released, it automatically returns to the neutral position **(0)** and the attachment remains in the position where it was when movement stopped.



LELI12TLB2098AB 1

Raising the loader attachment

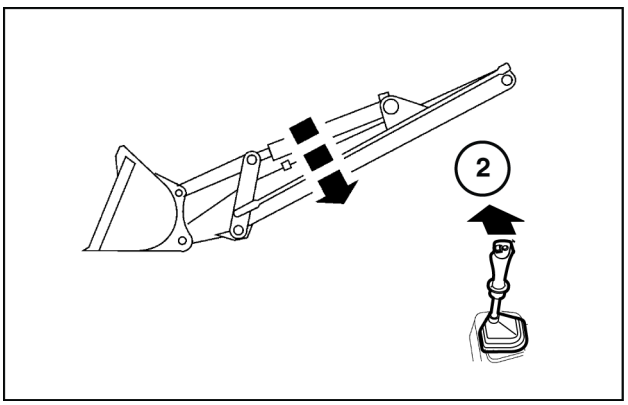
With the lever in position **(1)**, the attachment rises.



LELI12TLB2502AB 2

Lowering the loader attachment

With the lever in position **(2)**, the attachment lowers.



LELI12TLB2503AB 3

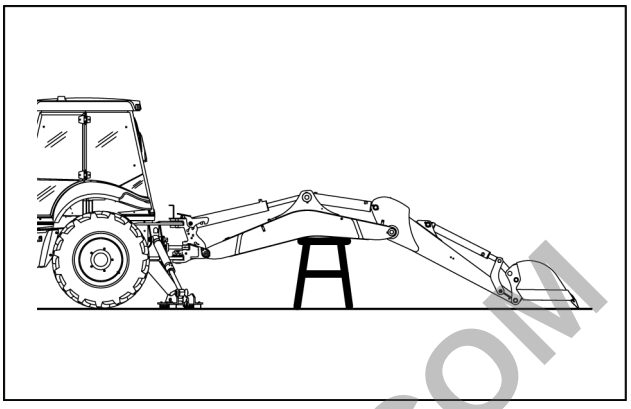
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5. Fully retract dipper cylinder and lower boom until bucket is firmly resting on the ground.
6. Support the backhoe with a suitable stand and lifting device.

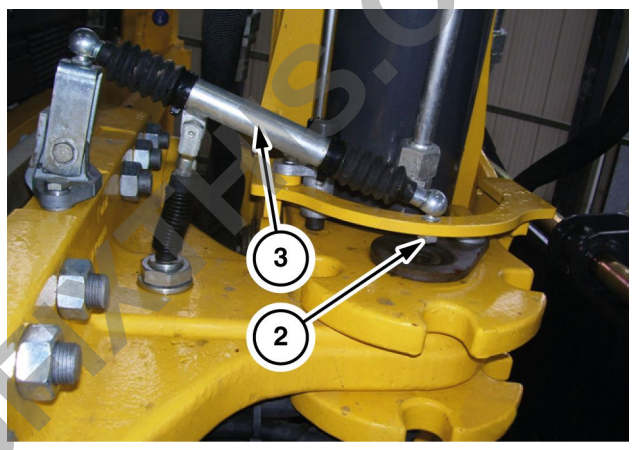
NOTICE: *Use a lifting device with a capacity of al least* ***1500 kg*** *(****3307 lb****)*

7. Stop the engine and move the control levers through all operating positions to relieve the pressure from the system.
8. Disconnect all hoses that travel through the swing support reach the backhoe.



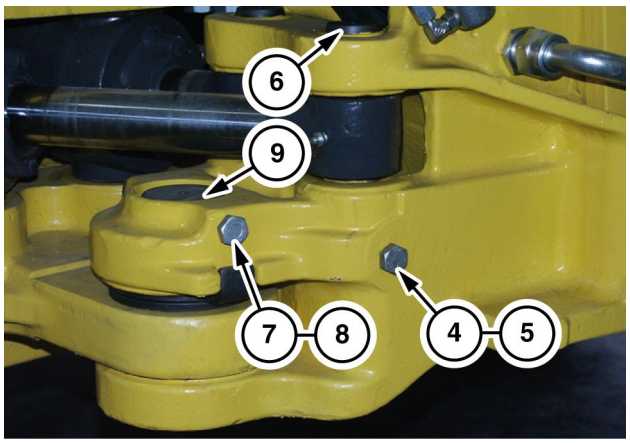
LELI12TLB2626AA 5

9. Remove the nut **(2)** and backhoe lock **(3)**.



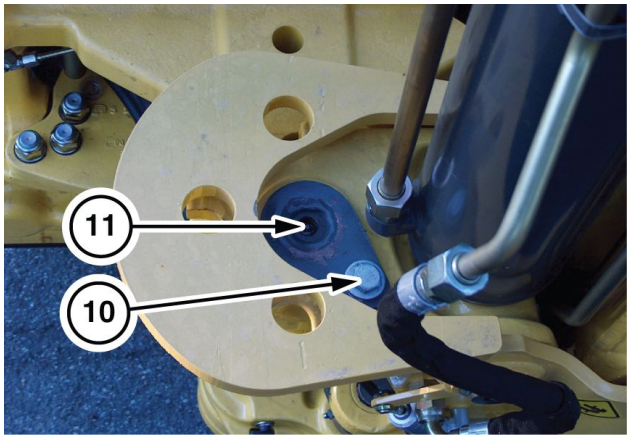
LEPH12TLB2627AB 6

10. Remove the nut **(4)** and bolt **(5)**.
11. Remove the pin **(6)** of the swing cylinder.
12. Repeat the above steps on the other swing cylinder.
13. Remove the nut **(7)** and bolt **(8)**.
14. Remove the lower pin **(9)** from the swing support using a hammer.



LEPH12TLB2628AB 7

15. Remove the bolt **(10)**.
16. Remove the upper pin **(11)** of the swing support.



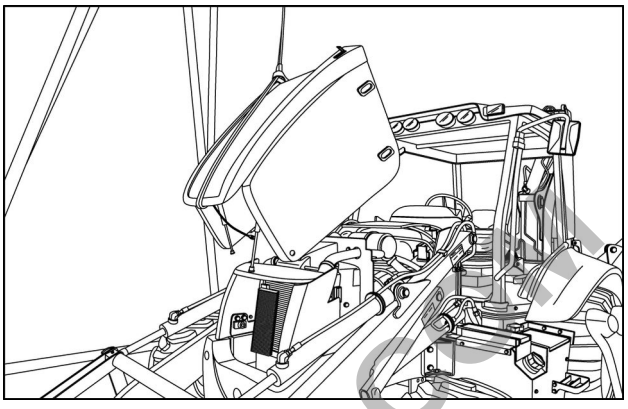
LEPH12TLB2379AB 8

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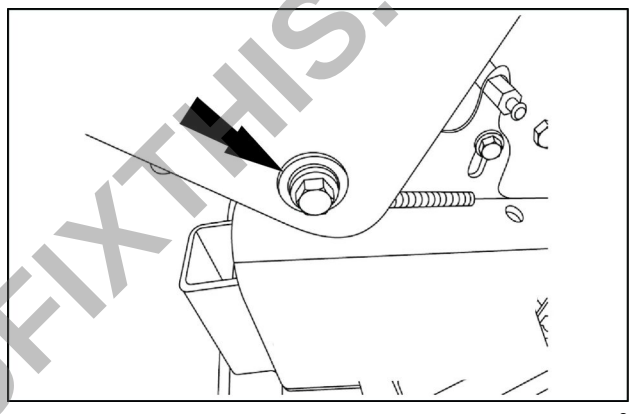
Engine hood - Install

1. Move the hood into position.



RAIL15TLB0181AA 1

2. Align and install both engine hood pivot bolts.



LELI12TLB0012AB 2

3. Keep the hood lifting device attached.
4. Open the hood enough to secure the engine hood restraint strap on the left-hand side.
5. Attach the engine hood gas lift struts. One on each side.
6. Remove the engine hood lifting device.
7. Open and close the engine hood.
8. Install the front grille.

Next operation:
See “Engine hood – Adjust” **Engine hood - Adjust (90.105)** if necessary.

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SPECIAL TOOL INDEX

Genuine	Reference	PAGE
380000988 [Starter opening plate and Flywheel Rotation Blocker]	Engine - Remove	10.1 / 14
380000988 [Starter opening plate and Flywheel Rotation Blocker]	Engine - Install	10.1 / 17
380200230 [Buffer Assembly Of Bearings Of Shaft]	Transmission housing - Assemble the Four-Wheel Drive	21.1 / 33
380200213 [Protection Assembly Of 4WD Shaft Cover Seal Ring]	Transmission housing - Assemble the Four-Wheel Drive	21.1 / 33
380200257 [Protection Assembly Of Seal Ring On PTO Shaft]	Transmission housing - Assemble the Four-Wheel Drive	21.1 / 38
380200225 [Plunger Assembly Of Seal Ring On PTO Shaft And 4WD Shaft]	Transmission housing - Assemble the Four-Wheel Drive	21.1 / 38
380200214 [Calibrator Assembly Of Seal Ring On PTO Shaft And 4WD Shaft]	Transmission housing - Assemble the Four-Wheel Drive	21.1 / 38
380200257 [Protection Assembly Of Seal Ring On PTO Shaft]	Transmission housing - Assemble the Two-Wheel Drive	21.1 / 46
380200225 [Plunger Assembly Of Seal Ring On PTO Shaft And 4WD Shaft]	Transmission housing - Assemble the Two-Wheel Drive	21.1 / 46
380200214 [Calibrator Assembly Of Seal Ring On PTO Shaft And 4WD Shaft]	Transmission housing - Assemble the Two-Wheel Drive	21.1 / 46
380200190 [Buffer Assembly And Disassembly Of Several Bearings]	Transmission housing - Disassemble the Two-Wheel Drive	21.1 / 53
380200190 [Buffer Assembly And Disassembly Of Several Bearings]	Transmission housing - Disassemble the Four-Wheel Drive	21.1 / 63
380200218 [Buffer Assembly Of Oil Pump Seal Ring]	Power shuttle transmission lubrication system - Install the oil pump	21.3 / 22
380200215 [Attachment Disassembly And Assembly Of Clutch]	Transmission drive and driven shafts - Disassemble	21.4 / 11
380200215 [Attachment Disassembly And Assembly Of Clutch]	Transmission drive and driven shafts - Disassemble	21.4 / 11
380200246 [Lifting Hook Of Shafts And Of Gear Control Yokes]	Transmission drive and driven shafts - Disassemble	21.4 / 18
380200258 [Tool Disassembly And Assembly Of Snap Ring On 4WD Shaft]	Transmission drive and driven shafts - Disassemble	21.4 / 31
380001926 [Protection Clutch Piston Assembly]	Transmission drive and driven shafts - Assemble	21.4 / 34
380200215 [Attachment Disassembly And Assembly Of Clutch]	Transmission drive and driven shafts - Assemble	21.4 / 35

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PAGE INDEX

1 INDEX
2 POWER DISTRIBUTION/CHARGING SYSTEM
3 STARTING SYSTEM
4 POWER DISTRIBUTION
5 GROUNDING
6 DENOX, ECU, SUPPLY MODULE
7 ENGINE CONTROL
8 ENGINE CONTROL
9 ENGINE CONTROL
10 DRIVES
11 HYDRAULICS
12 FRONT EXTERIOR LIGHTS
13 INTERIOR LIGHTING
14 WIPERS AND WASHERS
15 INSTRUMENT CLUSTER
16 HYDRAULICS
17 PARKING BRAKE SYSTEM
18 AIR CONDITIONING SYSTEM
19 RADIO / POWER POINT
20 REAR BEACON / LIGHTS
21 FRONT LIGHTS
22 DASH BOARD, RIGHT SIDE HARNESS
23 DASH BOARD, LEFT SIDE HARNESS
24 STEERING COLUMN / GLIDE RIDE
25 TRANSMISSION
26 4WD BRAKING (OPTION)
27 SOLENOID VALVES AND TRANSMISSION
28 CAN BUS / DIAGNOSTIC
29 CAN BUS / DIAGNOSTIC
30 TELEMATICS
31 FUSE & RELAY MODULE
32 FUSE & RELAY MODULE
33 CONNECTOR LIST
34 CONNECTOR LIST
35 CONNECTOR LIST
36 CONNECTOR LIST
37 HARNESS INTERCONNECTION

STANDARD HARNESS

COMMON HARNESS & CABLES FOR EU & NA MODELS

S. NO	PART NUMBER	ABBRE VATION	DESCRIPTION
1	47671557	CAB	HARNESS, GENERAL LINE CAB , PT
2	87668411	UC	UPPER PART CAB LINE
3	84386649	FP	HARNESS, FRONT PANEL, PT
4	85819568	RB	ROTARY BEACON CAB LINE
5	87550456	SD	HARNESS, RH SIDE DASHBOARD
6	47650253	EN	HARNESS, WIRE , F5C ECU - ENGINE
7	47652870	LHPOD	HARNESS, WIRE, LH SIDE POD
8	47652869	RHPOD	HARNESS, WIRE, RH SIDE POD
9	84292404	HSD	JUMPER HARNESS, SUPPRESSOR DIODE , BUCKET VALVE
10	84387591	HSD1	JUMPER HARNESS, SUPPRESSOR DIODE
11	47650220	CH	HARNESS, MAIN CHASSIS FRAME
12	47480105	SV	HARNESS, SOLENOID VALVES P.SHUTTLE
13	87636291	BT	BATT CHARGING CABLE , ALTERNATOR -POWER STUD
14	47478524	BT	BATTEY POSITIVE TO CUT OFF SW INPUT
15	84286444	BT	MAIN FUSE POWER CABLE
16	47512908	BT	CABLE, ALTERNATOR GND
17	87427925	BT	CABLE, BATTERY TO MAIN CHASSIS GROUND
18	47617515	BT	BATTERY CHARGING CABLE , CHASSIS POWER STUD -CUT OFF SW
19	47617385	BT	POSITIVE CABLE CUT OFF- STARTER MOTOR
20	47651563	BT	CABLE, BATTERY TO ENGINE HARNESS

STANDARD HARNESS-ONLY FOR EU VERSION

S. NO	PART NUMBER	ABBRE VATION	DESCRIPTION
1	47659712	LH	HARNESS, LH SIDE DASHBOARD
2	85819193	FR	RH FRONT LIGHT LINE
3	85819195	FL	LH FRONT LIGHT LINE
4	87303310	CUR	EU VERSION -REAR LIGHT OPTION CURLY CABLE

STANDARD HARNESS-ONLY FOR NA VERSION

S. NO	PART NUMBER	ABBRE VATION	DESCRIPTION
1	47659717	LH	HARNESS, LH SIDE DASHBOARD
2	87552128	HR	HARNESS, HORN USA

COMMON OPTIONAL HARNESS

S. NO	PART NUMBER	ABBRE VATION	DESCRIPTION
1	87427923	BT	CABLE, DOUBLE BATTERY , POSITIVE- POSITIVE
2	87427926	BT	CABLE, DOUBLE BATTERY - NEG-NEG
3	85824211	RC	RIDE CONTROL(GLIDE RIDE) KIT
4	85819237	HA	WIRE HARNESS, REAR HAMMER SYSTEM

WIRES COLORS

BK - BLACK
GN - GREEN
LG - LIGHT GREEN
YE - YELLOW
BL - BLUE
LB - LIGHT BLUE
BR - BROWN
RD - RED
GY - GRAY
OR - ORANGE
VT - VIOLET
WH - WHITE
PK - PINK
TN - TAN

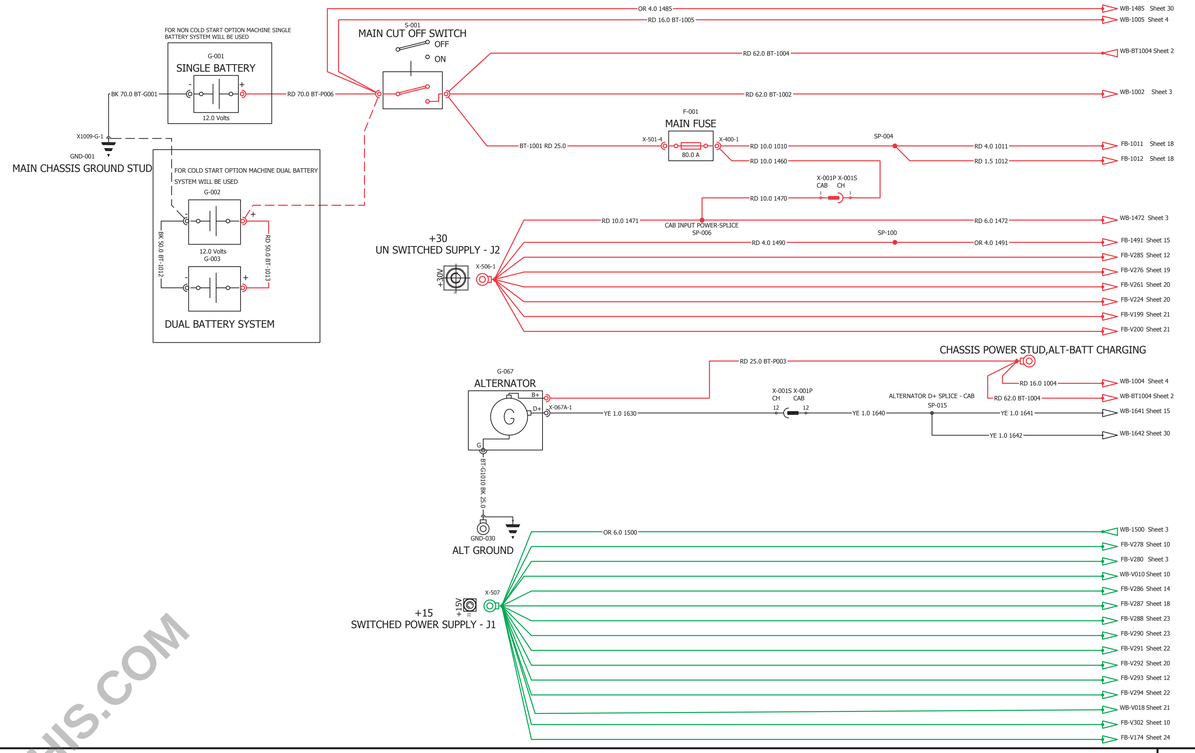
LB-WH: LIGHT BLUE-WHITE EXTENDING LATERALLY

LB/WH: LIGHT BLUE/WHITE EXTENDING SPIRALLY

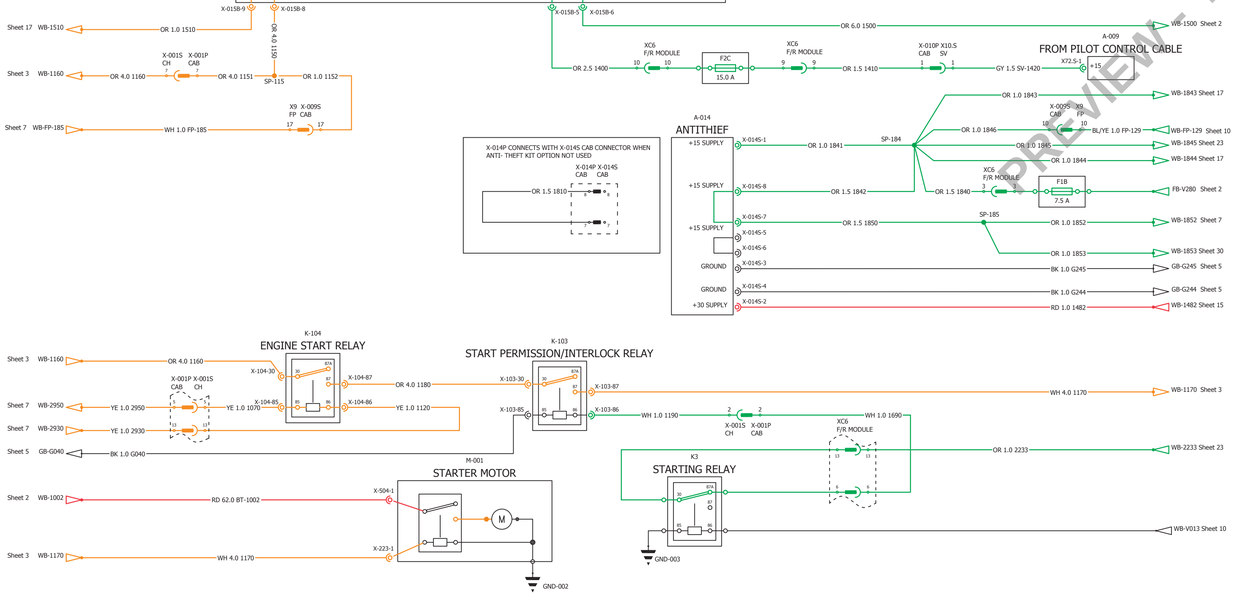
Where two colours are specified first letter indicates base color, second letter indicates straight stripe

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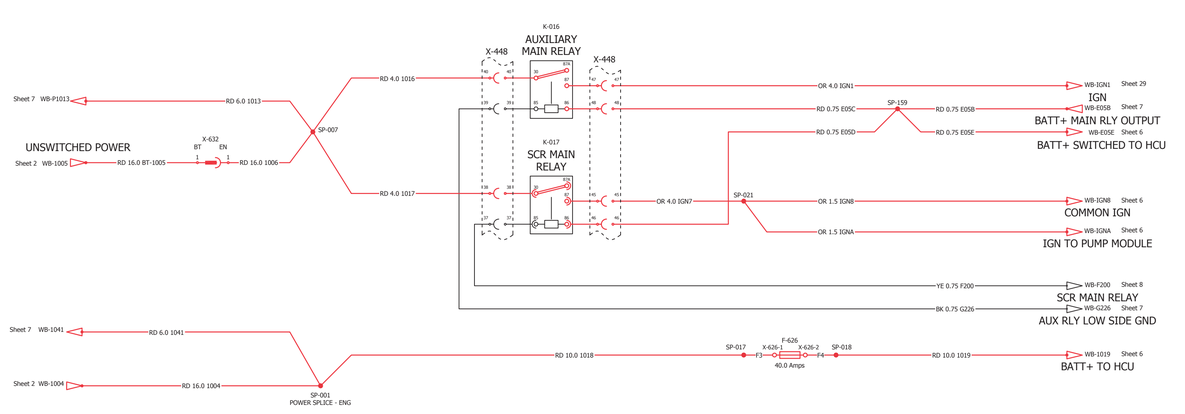
INDEX 1



POWER DISTRIBUTION AND CHARGING SYSTEM 2



STARTING SYSTEM 3



POWER DISTRIBUTION 4

SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION	SHEET	DESCRIPTION
1	INDEX	10	DRIVES	19	RADIO - POWER POINT	28	CAN BUS - DIAGNOSTIC
2	POWER DISTRIBUTION AND CHARGING SYSTEM	11	HYDRAULICS	20	REAR - BEACON LIGHTS	29	CAN BUS - DIAGNOSTIC
3	STARTING SYSTEM	12	FRONT EXTERIOR LIGHTS	21	FRONT LIGHTS	30	TELEMATICS
4	POWER DISTRIBUTION	13	INTERIOR LIGHTING	22	DASHBOARD - RIGHT SIDE HARNESS	31	FUSE AND RELAY MODULE
5	GROUNDING	14	WIPERS AND WASHERS	23	DASHBOARD - LEFT SIDE HARNESS	32	FUSE AND RELAY MODULE
6	DENOX - ECU - SUPPLY MODULE	15	INSTRUMENT CLUSTER	24	STEERING COLUMN - GLIDE RIDE	33	CONNECTORS LIST
7	ENGINE CONTROL	16	HYDRAULICS	25	TRANSMISSION	34	CONNECTORS LIST
8	ENGINE CONTROL	17	PARKING BRAKE SYSTEM	26	4WD BRAKING (OPTION)	35	CONNECTORS LIST
9	ENGINE CONTROL	18	AIR CONDITIONING SYSTEM	27	SOLENOID VALVES AND TRANSMISSION	36	CONNECTORS LIST
						37	HARNESS INTERCONNECTION

LEGEND

INDICATES CONSTANT POWER 12V

INDICATES POWER WHEN KEY SWITCH IS ON

INDICATES POWER WHEN KEY SWITCH IS IN START POSITION

INDICATES 5V SECONDARY POWER SUPPLY FROM MODULE

COLOR ABBREVIATIONS

ABBREVIATION	COLOR
BK	BLACK
BK\WH	BLACK\WHITE
BL	BLUE
BR	BROWN
GN	GREEN
GY	GRAY
LB	LIGHT BLUE
LG	LIGHT GREEN
OR	ORANGE
PK	PINK
RD	RED
TN	TAN
VT	VIOLET
WH	WHITE
YE	YELLOW

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TRACTOR LOADER BACKHOE
NH B95C / B110C
-TIER 4B (final) Power Shuttle transmission with cab
ELECTRICAL SCHEMATIC

SHEET 1 SIDE 1

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Contents

INTRODUCTION

Engine 10

[10.001] Engine and crankcase 10.1

[10.216] Fuel tanks 10.2

[10.206] Fuel filters 10.3

[10.218] Fuel injection system 10.4

[10.500] Selective Catalytic Reduction (SCR) exhaust treatment 10.5

[10.400] Engine cooling system 10.6

[10.414] Fan and drive 10.7

Transmission 21

[21.112] Power shuttle transmission 21.1

[21.134] Power shuttle transmission external controls 21.2

[21.104] Power shuttle transmission lubrication system 21.3

[21.154] Power shuttle transmission internal components 21.4

[21.113] Powershift transmission 21.5

[21.135] Powershift transmission external controls 21.6

[21.105] Powershift transmission lubrication system 21.7

[21.155] Powershift transmission internal components 21.8

[21.145] Gearbox internal components 21.9

Front axle system 25

[25.100] Powered front axle 25.1

[25.102] Front bevel gear set and differential 25.2

[25.108] Final drive hub, steering knuckles, and shafts 25.3

[25.400] Non-powered front axle 25.4

Rear axle system 27

[27.100] Powered rear axle 27.1

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Index

Brakes and controls - 33

Parking brake or parking lock - 110

Parking brake control valve or manifold - Assemble 24
Parking brake control valve or manifold - Disassemble 23
Parking brake control valve or manifold - Exploded view 7
Parking brake or parking lock - Assemble 17
Parking brake or parking lock - Disassemble 11
Parking brake or parking lock - Dynamic description 4
Parking brake or parking lock - Exploded view 6
Parking brake or parking lock - General specification 3
Parking brake or parking lock - Inspect 16
Parking brake or parking lock - Service instruction - Deactivation and emergency reset 8

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Electrical systems - 55

Warning indicators, alarms, and instruments - 408

B110C Four-Wheel Drive (4WD) Tier 4B (Final)
B110C Two-Wheel Drive (2WD) Tier 4B (Final)
B95C Four-Wheel Drive (4WD) Tier 4B (Final)
B95C TC Four-Wheel Drive (4WD) Tier 4B (Final)
B95C Two-Wheel Drive (2WD) Tier 4B (Final)

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