SERVICE MANUAL

B95C / B95C TC / B110C
Tier 4B (final)
Tractor Loader Backhoe

Part number 47830959
English
April 2015

NEW HOLLAND CONSTRUCTION

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B95C / B95C TC / B110C
TIER 4B (FINAL)
TRACTOR LOADER BACKHOE

SERVICE MANUAL
COMPLETE CONTENTS

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47881808 April 2015

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BINDER SPINE 47881809

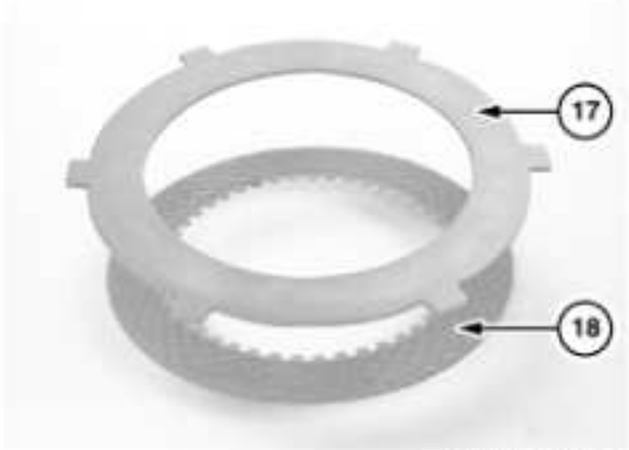
ELECTRICAL SCHEMATIC POSTERS 47775438
47775439
47775440

HYDRAULIC SCHEMATIC POSTER 47787159

ENGINE SERVICE MANUAL (sold separately) 47730940

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34. Use a gauge to check that each counter disc **(17)** and make sure that each clutch disc **(18)** is flat.
35. If they are not flat, replace them with new ones.
36. If the clutch discs **(18)** are nearly smooth, or if their friction faces are damaged or burnt, they must be replaced.
37. Check the grooves for wear.
38. Check counter discs **(17)** for pitting, scoring or other damage.
39. If you will be using new clutch discs, soak them in oil for at least an hour before assembly.
40. If you are using the old clutch discs, make sure that the contact surfaces are coated with transmission oil before assembly, check their wear condition (see chart below).
41. If the wear exceeds the 50% of the rated value, replace them.
42. Verify the bore and the housing of the input shaft for damage that will cause leakage during the assembly of the clutch.
43. Check if the slots in the housing of the input shaft are damaged by the tangs of the counter discs.



LEPH12TLB003AB 30

2WS forward - reverse gear clutch

Disc number (each side)	6
Counter disc number (each side)	6
Rated thickness of disc	**2.35 - 2.45 mm (0.09 - 0.096 in)**
Disc kit nominal thickness [with **163 kg (359.35 lb)** of load]	**29.00 - 29.20 mm (1.14 - 1.15 in)**
Disc maximum wear (each side)	**0.35 mm (0.01 in)**

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Wiring harnesses - Electrical schematic sheet 18 – Electric fan

B110C TIER 4B (FINAL), Mechanical Controls, Four-Wheel Drive (4WD), Power Shuttle, Canopy	
B110C TIER 4B (FINAL), Pilot Controls, Four-Wheel Drive (4WD), Power Shuttle, Canopy	
B95C TC TIER 4B (FINAL), Mechanical Controls, Four-Wheel Drive (4WD), Power Shuttle, Canopy	—
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1059-Timeout of CAN message DM1, 5 seconds without message

Context:
CAN bus communications between the instrument cluster and the Engine Control Unit (ECU) have been lost. The instrument cluster did not receive the DM1 message from the ECU. This fault code may be displayed with other CAN bus fault code messages. The instrument cluster will illuminate the danger lamp and will continually sound the audible alarm.

Cause:
The instrument cluster has stopped receiving CAN messages from the ECU. CAN bus communications between the instrument cluster and the ECU have been lost.

Possible failure modes:

1. CAN data link wiring or circuits open.
2. CAN data link wiring or circuits shorted.
3. Faulty instrument cluster.
4. Faulty ECU.

Solution:

1. Verify that the fault code is active.

   Connect the Electronic Service Tool to the service tool connector.

   To check for fault code: Start and operate the machine.

   If three or more fault codes are active, such as 1051 through 1059 or 3096, 3334, 3339 or 3358, this is an indication of a problem in the CAN bus circuit, continue with this procedure. If one or two CAN bus fault codes are active, this is an indication of an intermittent connection in the CAN circuit. Check all wires and connectors to verify they are secure and free of damage, corrosion, abrasion or incorrect attachment.

   A. CAN Data Link fault codes are not recorded again and are no longer active. OK to return the machine to service.

   B. CAN Data Link fault codes are present and ACTIVE. Continue with **1051-Timeout of CAN message EEC1, 5 seconds without message (55.408)** .

Wiring harnesses - Electrical schematic sheet 07 (55.100) Wiring harnesses - Electrical schematic sheet 15 (55.100) Wiring harnesses - Electrical schematic sheet 28 (55.100) Wiring harnesses - Electrical schematic sheet 30 (55.100)
Wiring harnesses - Electrical schematic sheet 26 – Transmission - Trax (55.100.DP-C.20.E.26)

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Loader bucket control cylinder - Remove

⚠DANGER

Crushing hazard!
Always install the safety lock before working under the raised attachment.
Failure to comply will result in death or serious injury.

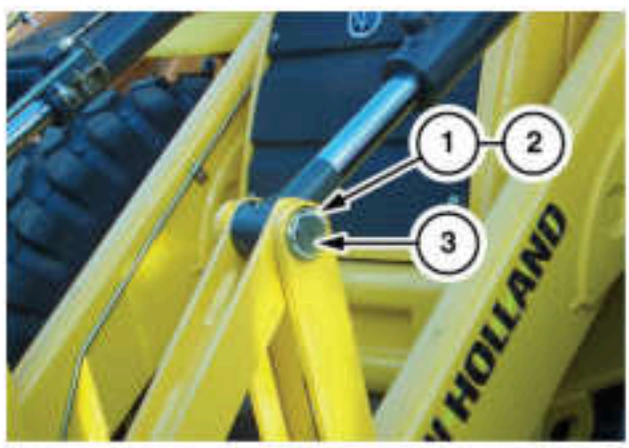
D0075A

1. Move the machine to a level and firm ground.
2. Place the bucket firmly on the ground.
3. Relieve the residual pressure in the system by moving the loader control lever through all operating positions.
4. Support the cylinder using a sling and a suitable support.
5. Disconnect the hoses.
6. Cap or plug all exposed openings.



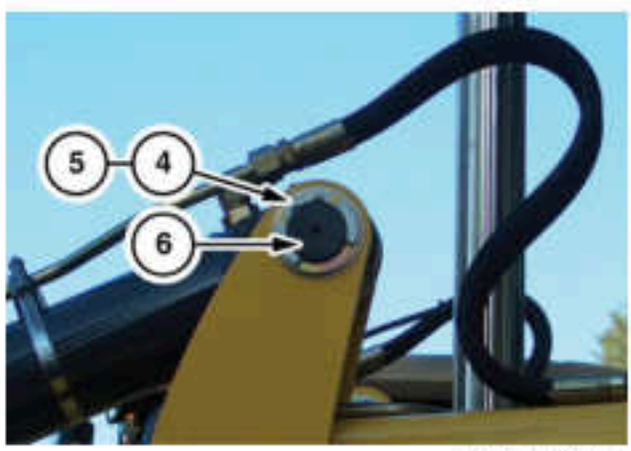
LEPH12TLB2015AA 1

7. Support the bucket linkage and rods.
8. Remove the snap ring **(1)** and spacer **(2)**.
9. Drive the pin **(3)** out with a hammer.



LEPH12TLB2016AB 2

10. Remove the snap ring **(4)** and shims **(5)**.
11. Drive out the pin **(6)** with a hammer.



LEPH12TLB2017AB 3

12. Remove the loader bucket cylinder.

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Cab heater - Dynamic description

Electric heater valve

The electric valve is equipped with a software that, each time the supply of the cock is delayed (therefore also at backhoe loader start), carries out the momentary positioning of the cock to "completely closed" and returns to the position set by the temperature regulation handle located on the control dashboard.

This enables the software to carry out a self-control on the cock drive so as to always obtain an optimal regulation of the ball for the water flow.

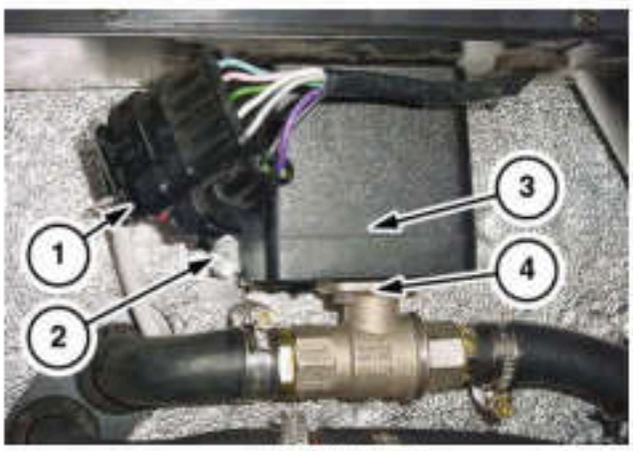
This is part of the cock normal operation and is not to be considered as a fault.

Valve release

NOTICE: *The release of the valve has to be performed if this valve remains idle for long periods.*

Carry out this operation observing the following procedure:

- Disconnect the electric connectors **(1)**.
- Loosen the screws **(2)** and extract the electric valve **(3)** from the evaporator.
- Loosen and remove the screws **(4)**.

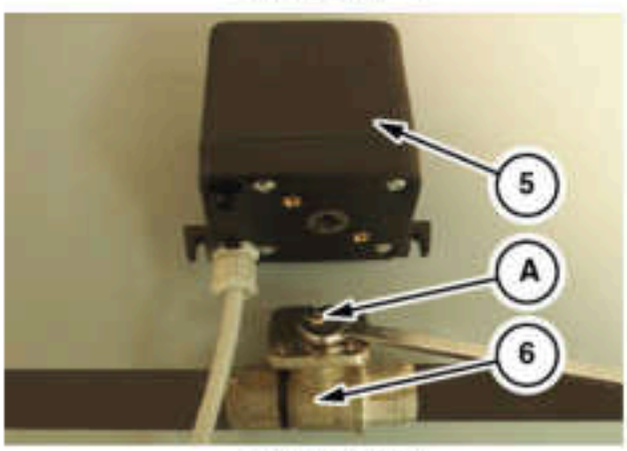


1

- Separate the driving unit **(5)** from the cock **(6)**.
- By means of a wrench, turn the pin **(A)** of the cock to unlock it.

NOTE: *Once this operation is complete, reset pin **(A)** in the correct start position.*

Reinstall the heater valve, repeating the previously carried out operations in reverse order.



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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

CIRCUIT COLORS

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

SHEET 1

RAIL1471L8127412A 1

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