Link Product / Engine

Product	Market Product	Engine
T7.240 With cab, 18X6, TIER 3 [HCCZ7240CFCP38297 -]	Latin America	F4DE9684B*J113
T7.245 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	Latin America	F4DE9684L*J110
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	Latin America	F4DE9684L*J114

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Engine - Connect

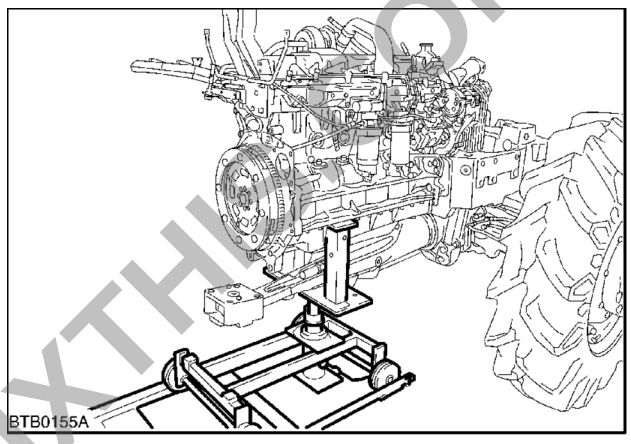
T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA

⚠ CAUTION

Heavy object!
The component is heavy. Use care not to drop the component when installing, removing, or handling.
Failure to comply could result in minor or moderate injury.

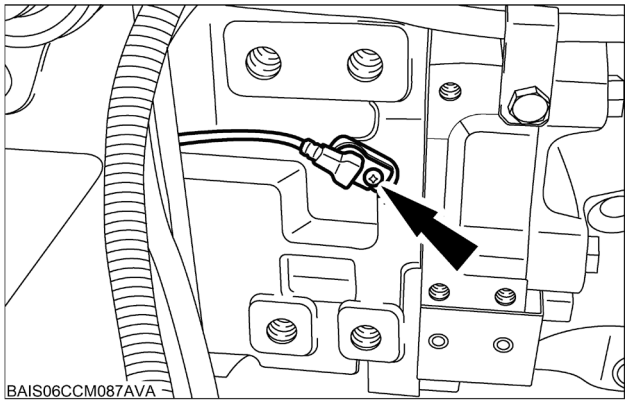
C0095A

1. Line up the front support and engine assembly with the transmission. Install the engine on the transmission fixing bolts. Torque to **285 - 315 N·m** (**2522 - 2788 lb in**). Remove the separation kit from the tractor.



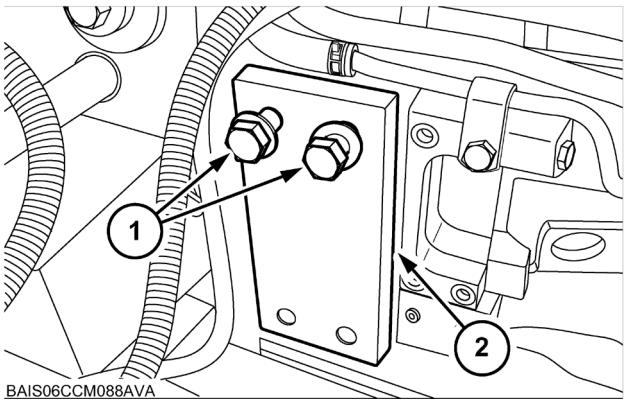
BTB0155A 1

2. Install the flywheel speed sensor.



BAIS06CCM087AVA 2

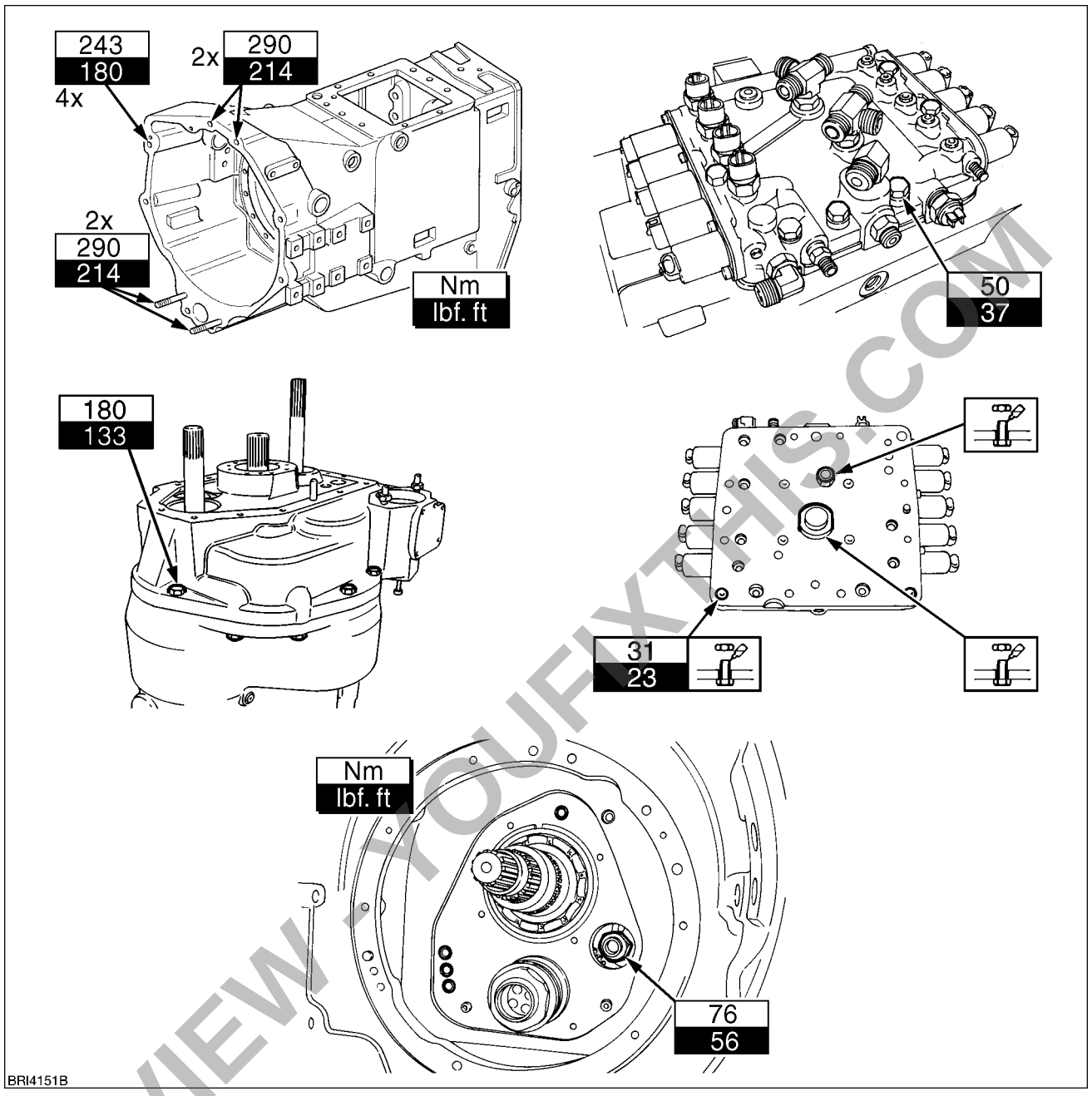
3. Install the spacer **(2)** and install the fixing bolts **(1)**.



BAIS06CCM088AVA 3

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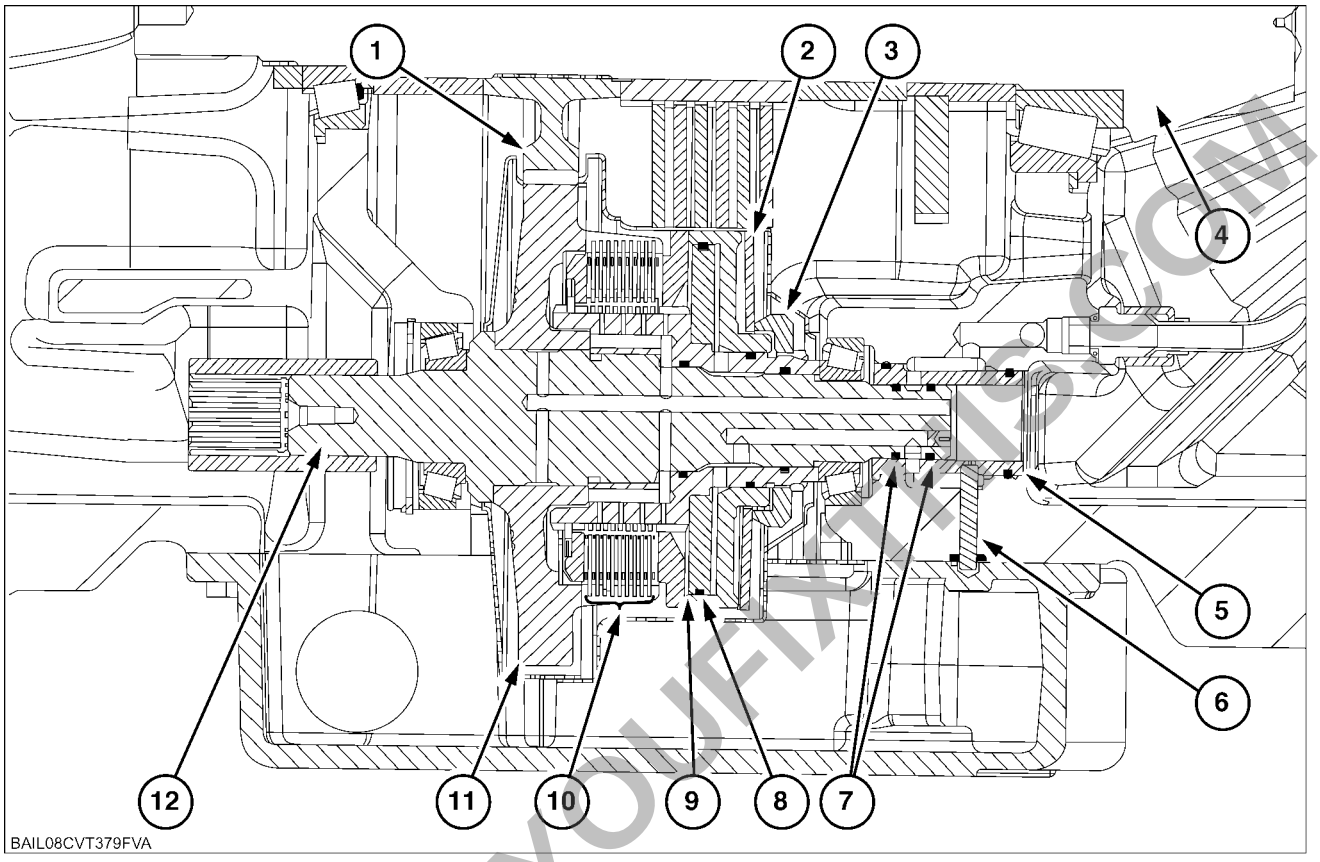
BRI4151B 1

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Electro-hydraulic control - Sectional view

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA



BAIL08CVT379AVA 1

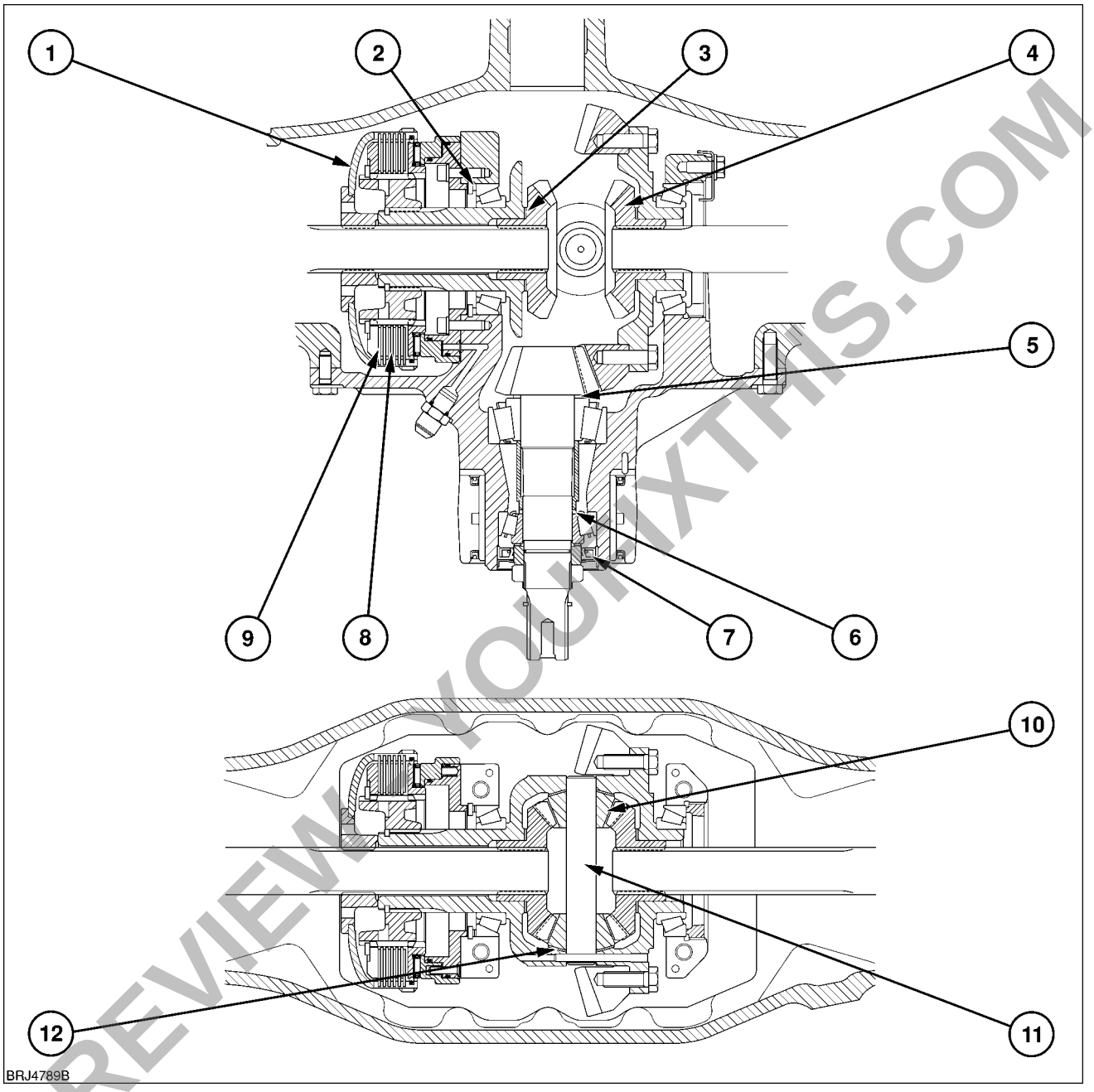
1. Drive Gear
2. Belleville Washer
3. Retaining Nut
4. Pinion Shaft
5. Supply Manifold
6. Supply Manifold Retaining Pin
7. Seals
8. Piston Seals
9. Piston
10. Clutch Plates
11. Driven Gear
12. Drive Shaft

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Four-Wheel Drive (4WD) axle - Sectional view

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA



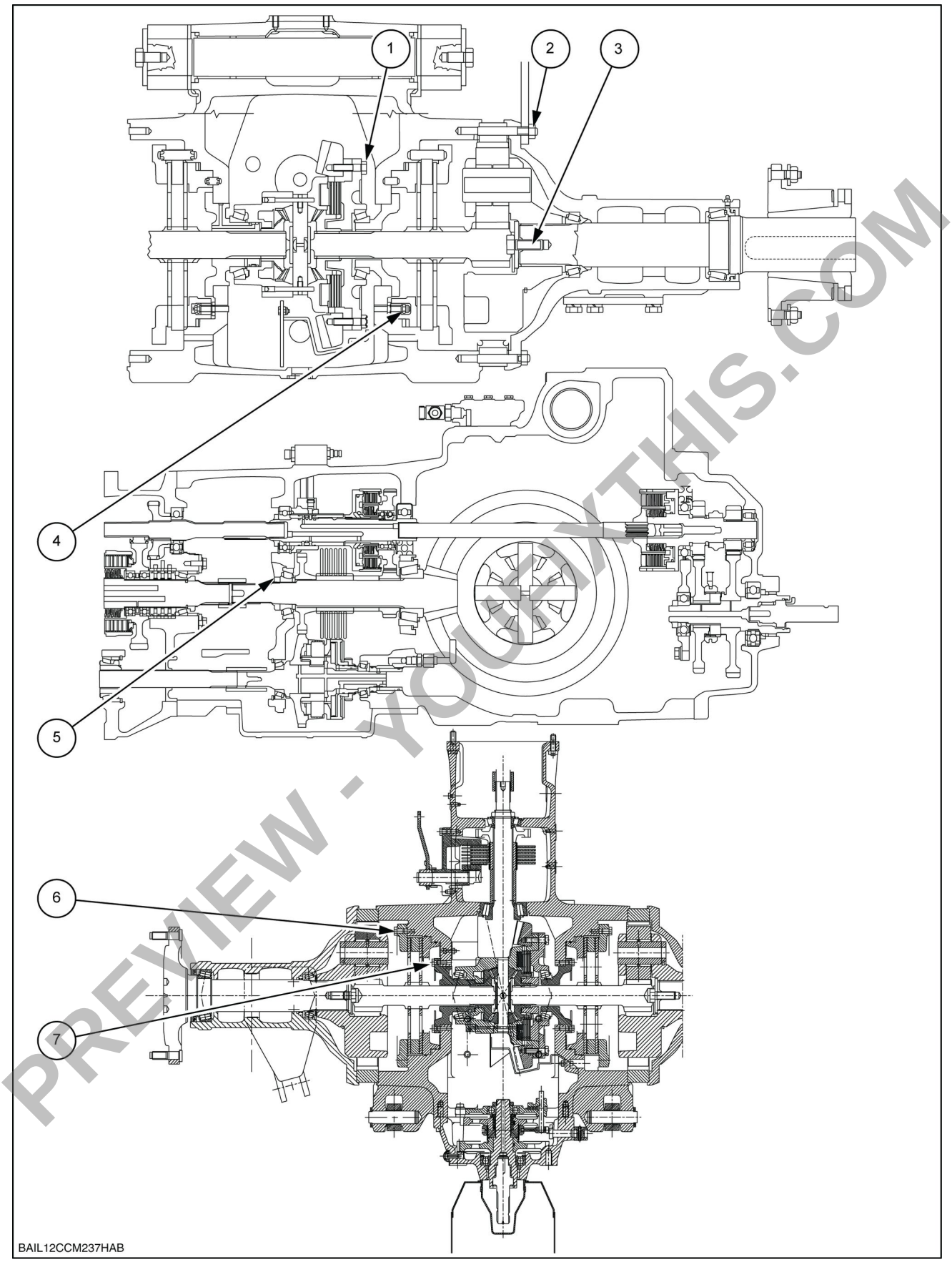
BRJ4789B 1

Front axle sectional view

1 Multi-disk oil-bath clutch assembly
2 Adjustment shims for the ring gear bearing
3 Side gear thrust washer shims
4 Side gears
5 Adjustment shims for the pinion cone point
6 Pinion bearing adjustment shims
7 Sealing
8 Clutch drive disks
9 Clutch driven disks
10 Differential gears
11 Differential gear pin
12 Differential gear thrust washer shims

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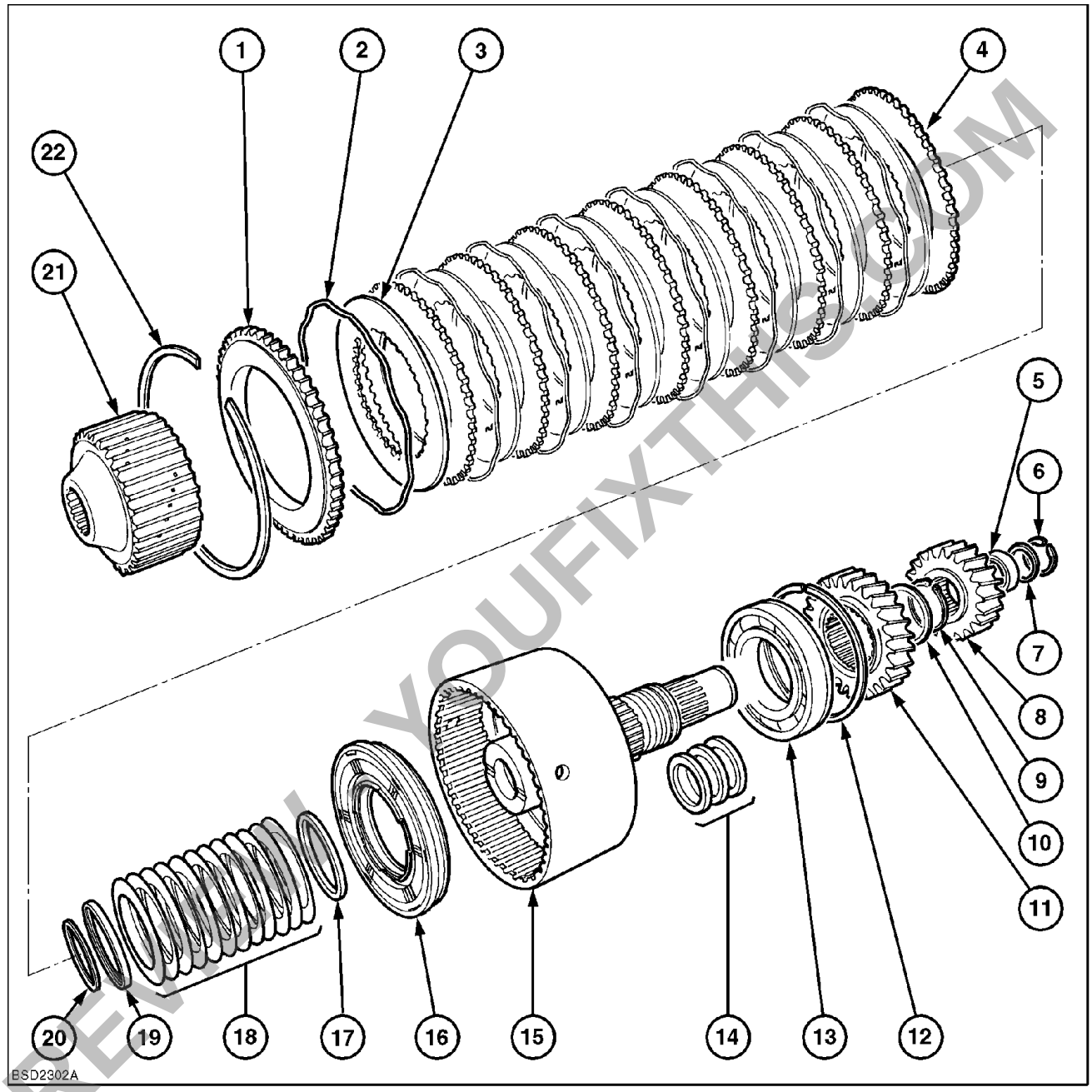
BAIL12CCM237HAB 1

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Rear mechanical control - Exploded view

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA



BSD2302A 1

PTO clutch assembly

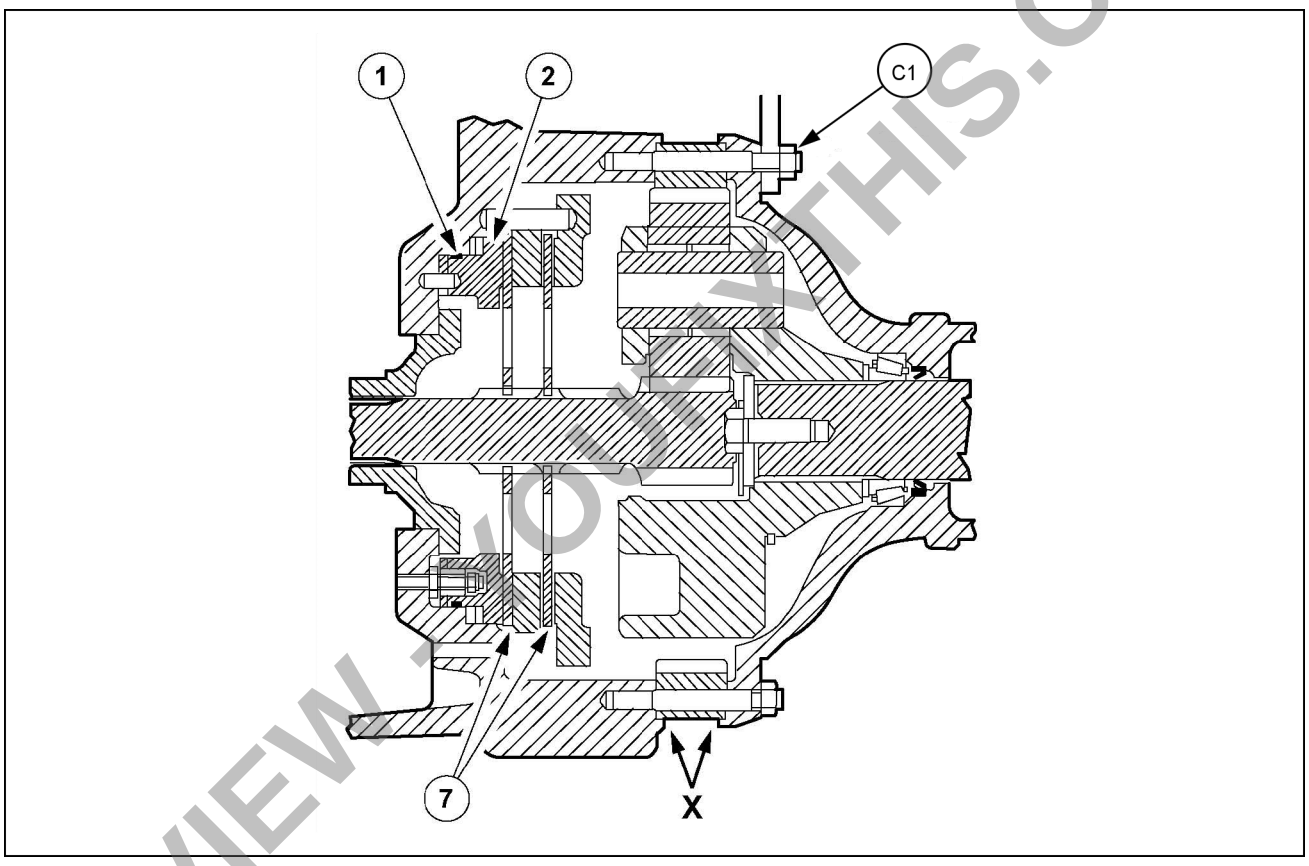
(1) Terminal plate	**(12)** Retainer
(2) Spring separator	**(13)** Bearing
(3) Clutch plate	**(14)** Sealing rings
(4) Clutch plate separator	**(15)** Clutch case
(5) Bearing	**(16)** Piston
(6) Locking ring	**(17)** Washer
(7) Spacer	**(18)** Plate springs (Belleville)
(8) **540 rpm** transmission gear	**(19)** Spacer
(9) Locking ring	**(20)** Retaing ring
(10) Spacer	**(21)** Hub

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Hydraulic service brakes - General specification

Typè	Disks bathed in oil that act on the differential axle shafts
Control system	Hydraulic, with independent pedals (connected by a pin)
Service Brake Disc Material	Sintered or organic compound
Disc thickness	**10 mm**
Maximum wear thickness	**8.6 mm** (**0.7 mm** per face)
Cylinders	With two master cylinders activated independently by brake pedals
Operating pressure	**17.6 bar** (**255 psi**)

Hydraulic service brakes - Torque



CUIL14TR01420GA 1

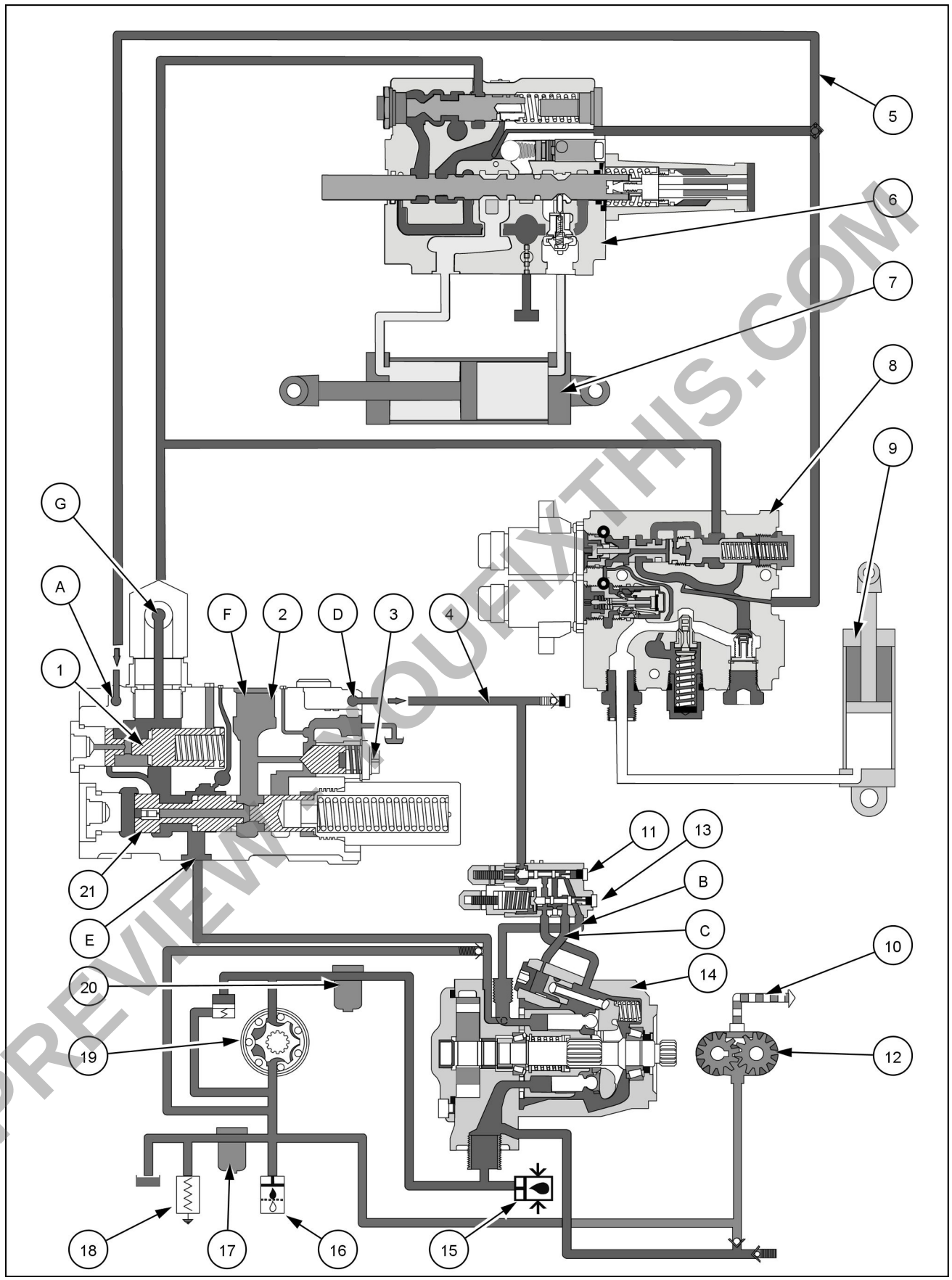
Sectional view of the service brake

Reference	Parts	Thread	Torque value
(C1)	Nuts for securing the final drive housing to the rear transmission box	-	**200.0 N·m** (**147.5 lb ft**)

NOTE: *During installation, apply* ***LOCTITE® 574™*** *on the surfaces marked with an X.*

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CUIL15TR00497HA 1

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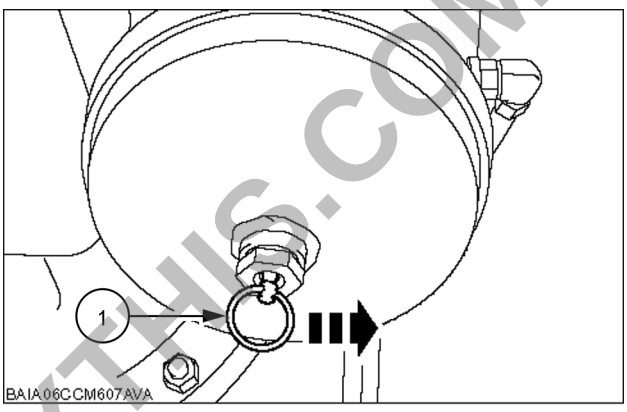
Pneumatic compressor - Remove

⚠ WARNING

Avoid injury!
Handle all parts carefully. Do not place your hands or fingers between parts. Use Personal Protective Equipment (PPE) as indicated in this manual, including protective goggles, gloves, and safety footwear.
Failure to comply could result in death or serious injury.

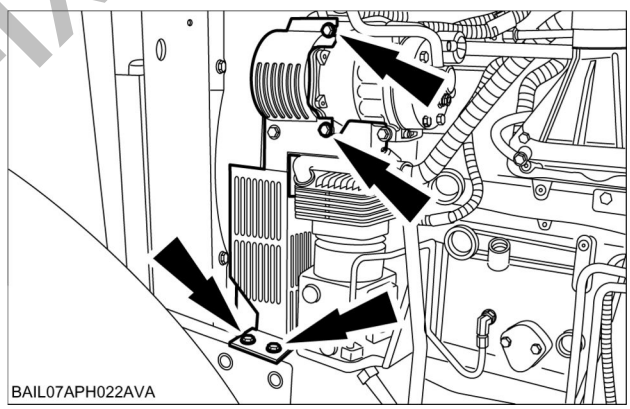
W0208A

1. Actuate the valve **(1)** to eliminate pressure from the pneumatic braking system.



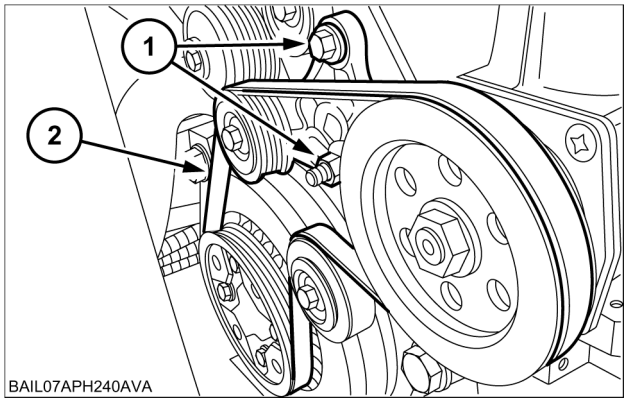
BAIS06CCM607AVA 1

2. Remove the left-hand drive belt shield.



BAIL07APH022AVA 2

3. Loosen the tensioners of the air compressor drive belt **(1)**. Release the tension. Remove the air compressor drive belt **(2)**.

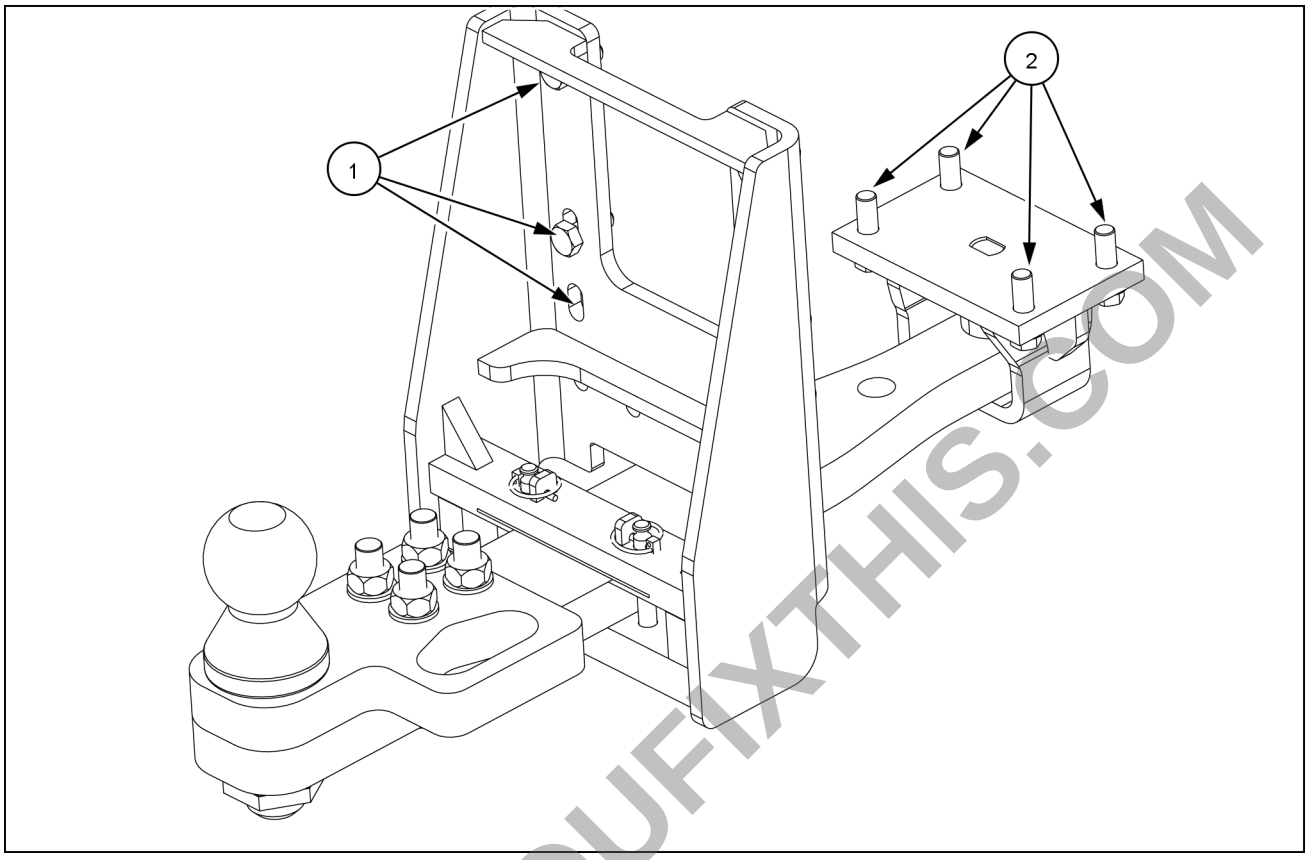


BAIL07APH240AVA 3

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Drawbar - Torque

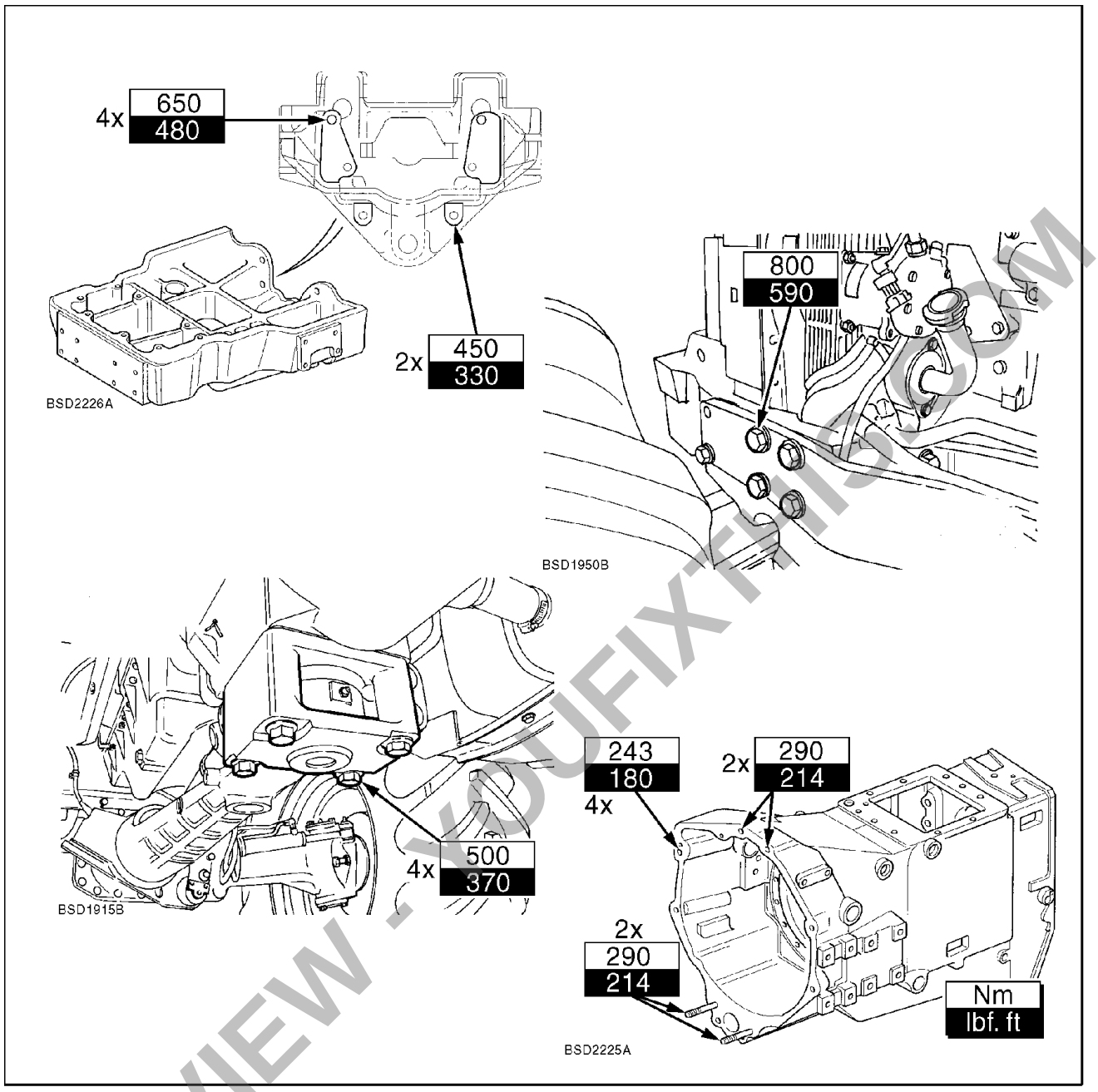


CUIS15TR00559FA 1

Reference	Description	Toque
(1)	Screw M18x1.5x45	**360.0 - 440.0 N·m** (**265.5 - 324.5 lb ft**)
(2)	Bolt M18x1.5x50	**360.0 - 440.0 N·m** (**265.5 - 324.5 lb ft**)

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BSD1915B 1

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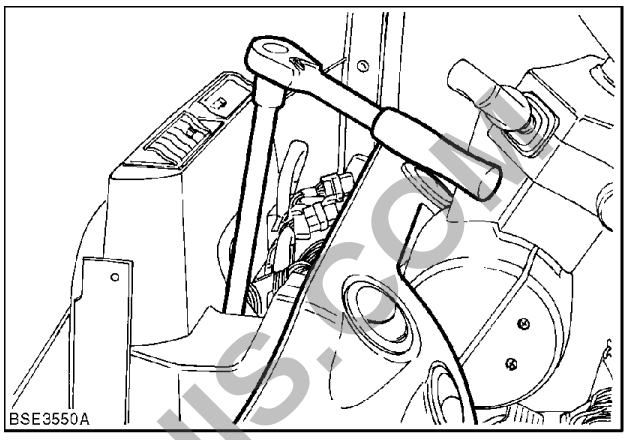
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Steering column - Remove

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA

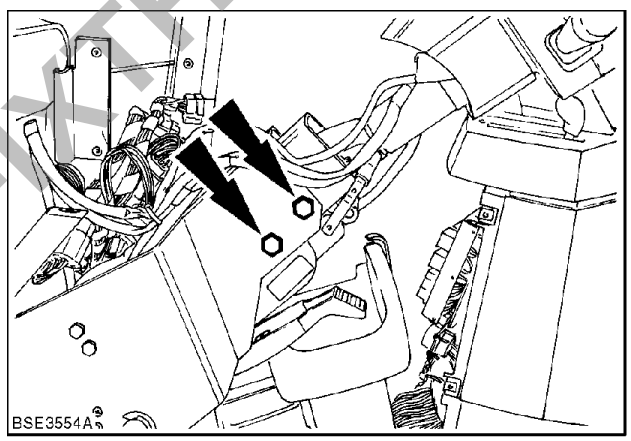
1. Remove the steering wheel, if necessary.
2. Remove the instrument panel. Loosen the two mounting bolts. Remove the lower steering column cover.

NOTE: *The steering column component parts listed are repaired separately.*



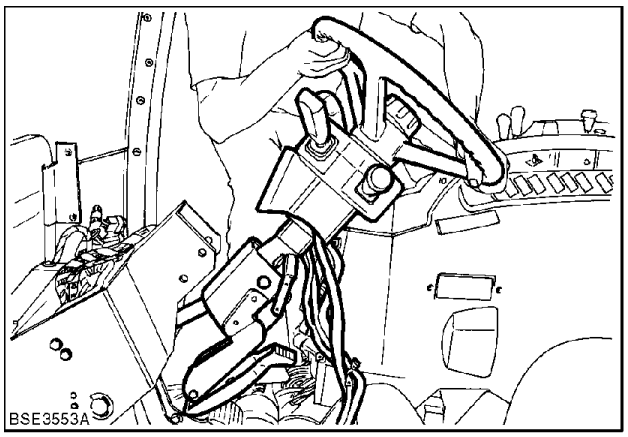
BSE3550A 1

3. Disconnect the wiring connectors from the multi-function switch and the reverse lever.
4. Remove the hardware that secures the column to the frame.



BSE3554A 2

5. Lift the column away from the steering shaft and the instrument console.



BSE3553A 3

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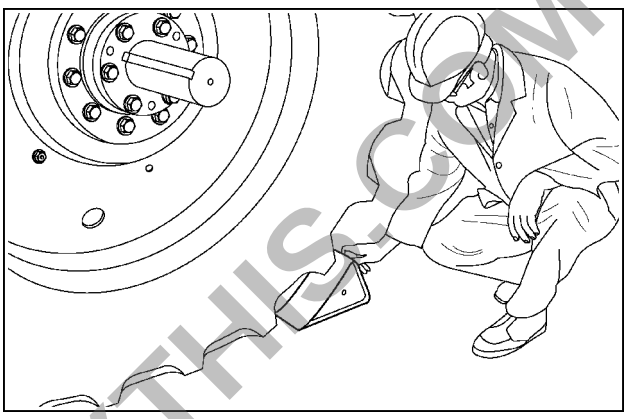
Front wheels - Remove

⚠ WARNING

Heavy parts!
The wheels are very heavy. Handle with care. Make sure that the wheels, when stored, cannot fall over and cause injury.
Failure to comply could result in death or serious injury.

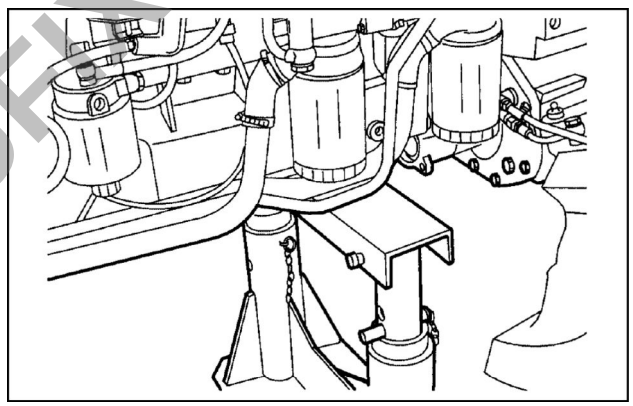
W0403A

1. Chock the rear wheels.



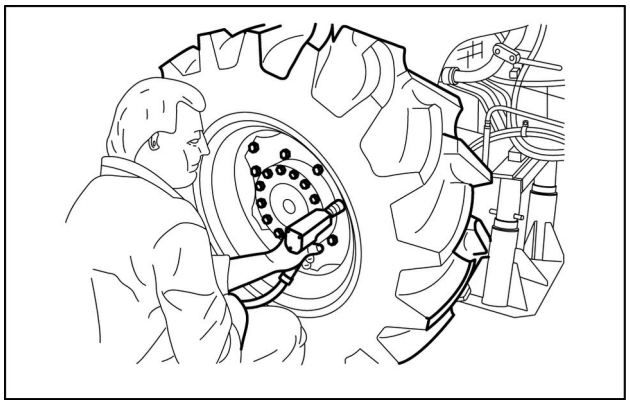
RCPH07CCH541ABC 1

2. Install stands that are suitable for the machine's weight on the front axle.



LAIL11TL0491A0A 2

3. Remove the mounting bolts.



LAIL11TL0043A0A 3

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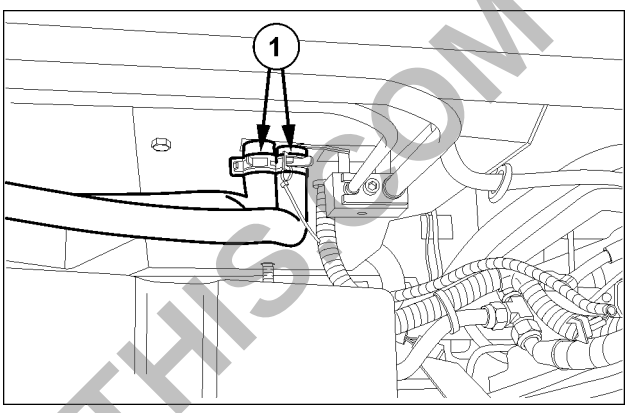
Heater control valve - Replace

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA

NOTE: *The refrigerant must not be siphoned from the unit to replace the heater valve.*

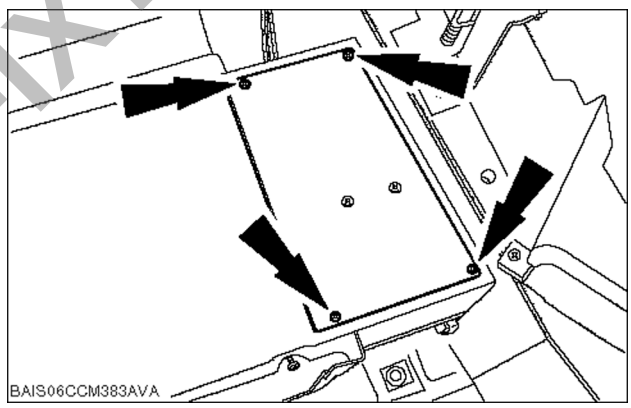
Remove

1. Retain the cab heater hoses **(1)**.



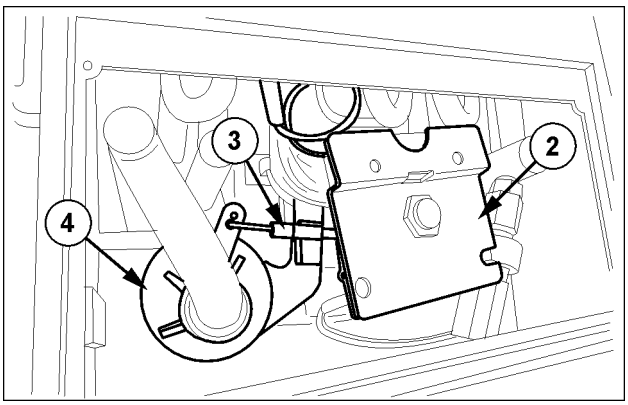
SS08D110 1

2. Remove the cover plate from the heating and air conditioning unit.



BAIS06CCM383AVA 2

3. Move the evaporator temperature sensor **(2)** to the right.
4. Remove the Bowden cable **(3)** to activate the heater valve.
5. Remove the hose clamps **(4)** and remove the heater valve.



SS08D018 3

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Electrical system - General specification

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA

Description	All Models
Alternator	**12 volt**, 150 amp
Battery	Minimum maintenance **12 volt** 176 Ah (1300 cca)
Starting motor	Positive engagement, solenoid operated 4.2 kw - geared reduction
Cold starting aid	Optional Inlet manifold grid heater (80A) and fuel heater
Bulb rating and type	
- headlights	60/55W - H4
- parking lights (front)	5W - R5W
- parking lights (rear)	5W - P21/5W
- work lights (hi-mount rear and intermediate front)	50/55/60W - GE866/H3
- work lights (auxiliary)	50/55/60W - GE866/H3/HB3
- turn indicators (front)	21W - PY21W
- turn indicators (rear)	21W - P21W or PY21W
- stop lights	21W - P21/5W
- licence plate lights	5W - R5W
- rotating beacon	55W - H1
- SMV (slow moving vehicle) lights (N. America only) and extremity lights	21W-P21W

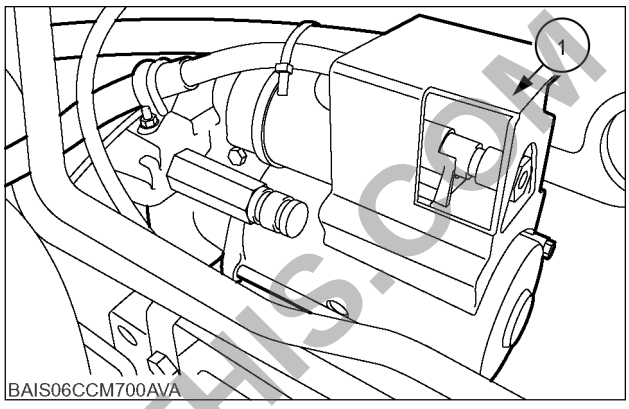
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Engine starter - Remove

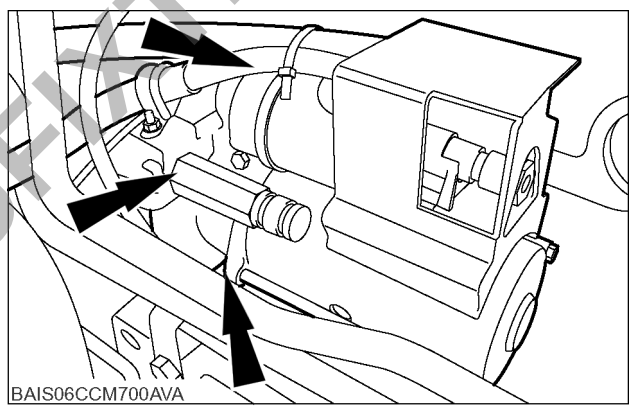
T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA

1. Disconnect the battery ground (negative) cable. See **Battery - Disconnect (55.302)**.
2. Loosen the retaining bolt and remove the protective cover **(1)**.
3. Disconnect the positive cables for the solenoid and the supply wire from the solenoid coil.



BAIS06CCM700AVA 1

4. Remove the starter's three retaining bolts. Remove the starter.



BAIS06CCM700AVA 2

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Electronic modules - Calibration

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA

Calibration configuration procedures

Before installing program downloads and before the Calibration Configuration Procedure, you must perform H8, memory initialization, on the selected system.

Necessary when:

- There is a calibration fault code

  NOTE: *The fault code is not shown on the display, but can be seen in HB mode in the "H" menu.*

- You re-initialize the non-volatile memory (H8) on the controller.

  NOTE: *After you have fully re-initialized the memory, in H8, you will need to perform the tractor configuration procedure. See H3 in the "H" menu, Electrical Systems chapter, Módulo eletrônico - Descrição estática (55.640.AG-C.30.A.20) section.*

- You change the microprocessor
- You have changed the PWM solenoid valve
- You have changed the potentiometer
- Mechanical repairs have been carried out
- JUST THE TRANSMISSION – The quality of clutch change or modulation has deteriorated considerably.
- JUST THE EDC – You have installed a new lift arm potentiometer, which should cause error code 1024 to appear. Disconnect the potentiometer with the ignition key in the "ON" position and then reconnect it. Potenciômetros de controle do engate traseiro de três pontos - Calibragem ruim (55.523.AM-G.30.D.10 .

Configuration procedure:

Before calibrating the clutch and the synchronizer, you must check the following points:

- Check that the transmission oil is at the correct temperature – you can do this in H1 mode. All the transmissions should be calibrated at **60 - 105 °C**
- The parking brake is applied
- The air conditioning (if fitted) is turned off
- All the electrical and hydraulic services have been turned off
- Electronic lift only – Place a weight of approximately **200 Kg** on the lift arms (to cancel out the lift link resistance)
- Electronic lift only – All the EDC commands are turned clockwise as far as they will go
- Electronic lift only – The lift/work switch is set to the "WORK" position

NOTE: *The fault code "U" appears if the configuration procedure was not performed correctly.*
See Módulos eletrônicos - Descrição estática (55.640-C.30.A.20).

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1029-HYDRAULIC CONTROL VALVE DISCONNECTED

NOTE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

Cause:

Possible failure modes:

1. Faulty connector
2. Faulty harness
3. Faulty hydraulic control valve solenoid
4. Faulty controller

Solution:

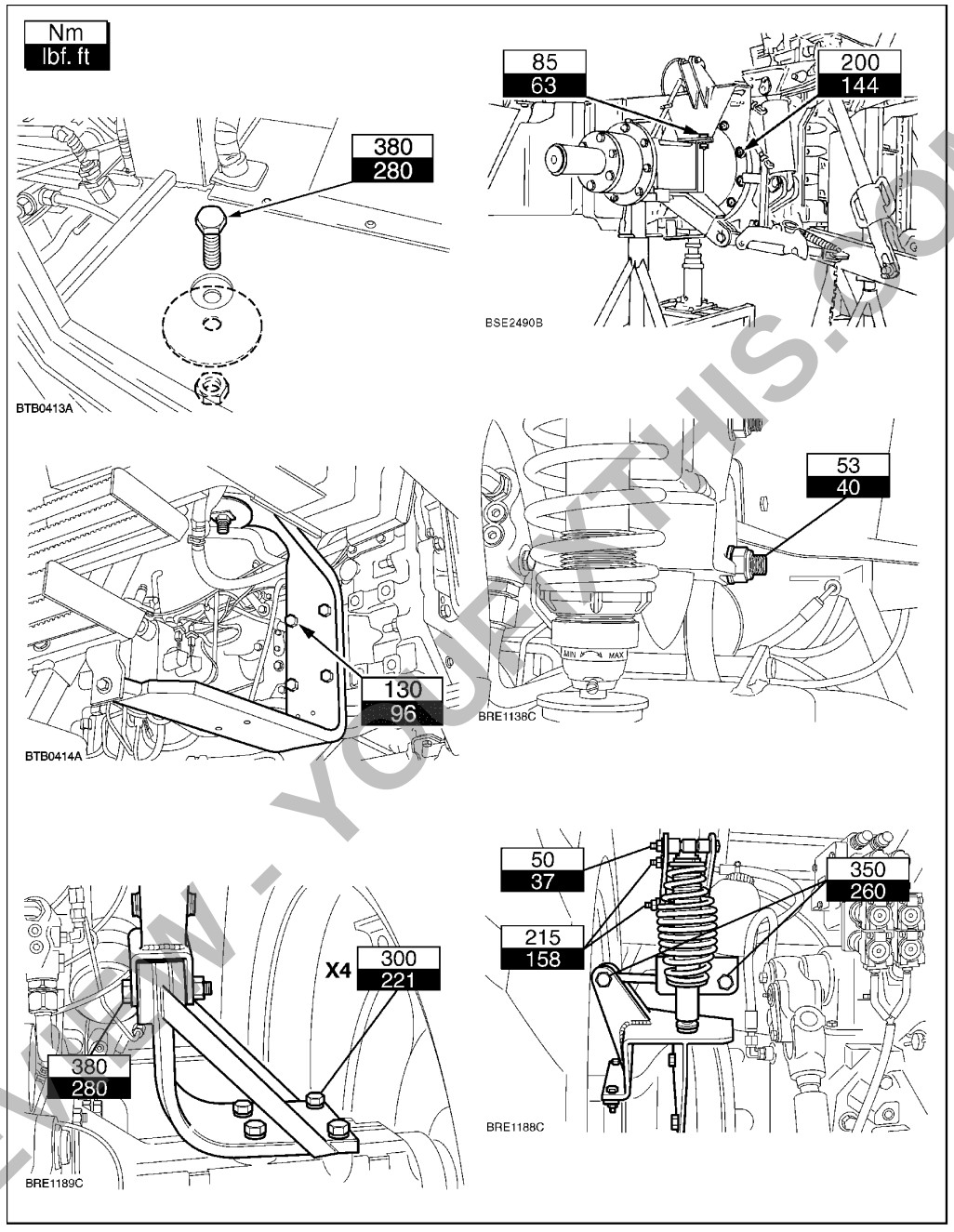
1. Check for other error codes being displayed.
   A. If any other error codes are being displayed, continue to these tests.
   B. If no other error codes are being displayed, continue to step **2**
2. Check the hydraulic control valve solenoid connectors **X-268**, **X-269** and the controller connectors **X-091** and **X-092**.
   A. Ensure the connectors are connected, not damaged, the pins are in the correct position and that the fit is tight. Repair or replace as necessary.
   B. If the connectors are okay, continue to step **3**
3. Visibly check the harness any damage.
   A. Check the harness from the controller connectors **X-091** and **X-092** to the hydraulic control valve connectors **X-268** and **X-269** for damage. If damage to the harness is indicated, repair or replace the harness as required.
   B. If the harness is okay, download the correct level of software. If the fault re-occurs, remove and replace the controller.

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Cab - Torque

T7.240	LA
T7.245	LA
T7.260 With cab, 18X6, TIER 3 [HCCZ7245CFCP38297 -]	LA



BRE1189C 1

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SPECIAL TOOL INDEX

Genuine	Reference	PAGE
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380000663 [Crankshaft Rear Seal Remover]	Engine - Special tools	10.1 / 5
380001099 [Fuel Injector Extractor]	Engine - Special tools	10.1 / 6
380000666 [Crankshaft Front Seal Installer]	Engine - Special tools	10.1 / 6
380000664 [Crankshaft Rear Seal Installer]	Engine - Special tools	10.1 / 6
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380000732 [Engine Turning Tool]	Engine - Special tools	10.1 / 6
380000667 [Camshaft Bush Assembly And Disassembly Punch]	Engine - Special tools	10.1 / 6
380000665 [Crankshaft Front Seal Extractor]	Crankshaft oil seal - Remove Front seal	10.2 / 3
380000663 [Crankshaft Rear Seal Remover]	Crankshaft oil seal - Remove Rear Seal	10.2 / 4
380001099 [Fuel Injector Extractor]	Fuel injectors - Remove	10.5 / 21
380000543 [Hydraulic Test Quick Release Coupler (female) 1/4 NPTF]	Powershift transmission - Special tools	21.1 / 7
380000549 [Slide Hammer]	Powershift transmission - Special tools	21.1 / 7
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380000495 [Lifting Brackets]	Powershift transmission - Special tools	21.1 / 7
380000496 [Medium Clutch Shaft Adapter]	Powershift transmission - Special tools	21.1 / 7
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380000568 [Transmission Input/Output Shaft Bearing Adjustment Tool]	Powershift transmission - Special tools	21.1 / 7
380000459 [Range Gear Driven Output Shaft Socket (65mm)]	Powershift transmission - Special tools	21.1 / 7
380000577 [Adapter 7/16 UNF (Internal) x M12 x 1.5p (External)]	Powershift transmission - Special tools	21.1 / 7
380000578 [Adapter, 7/16 UNF (Female) x M14 X 1.5p (Male)]	Powershift transmission - Special tools	21.1 / 7
380000466 [PShift and D Command Transmission Driven Shaft Lock]	Powershift transmission - Special tools	21.1 / 7
380200148 [Solenoid Test Break Out Cable Kit]	Powershift transmission - Special tools	21.1 / 7
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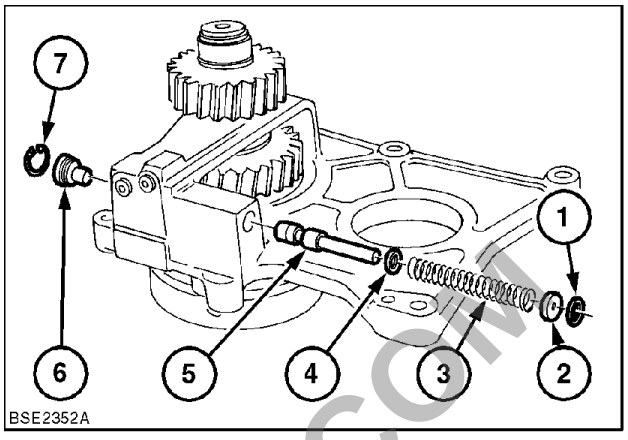
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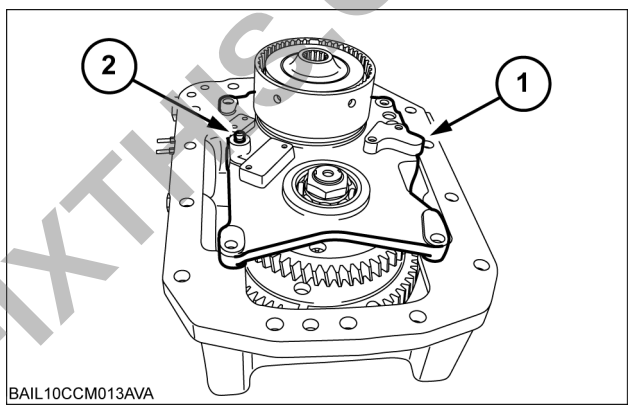
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19. Install the lubrication valve.
    1. Locking ring
    2. Base
    3. Spring
    4. Base
    5. Spool
    6. Cap
    7. Locking ring



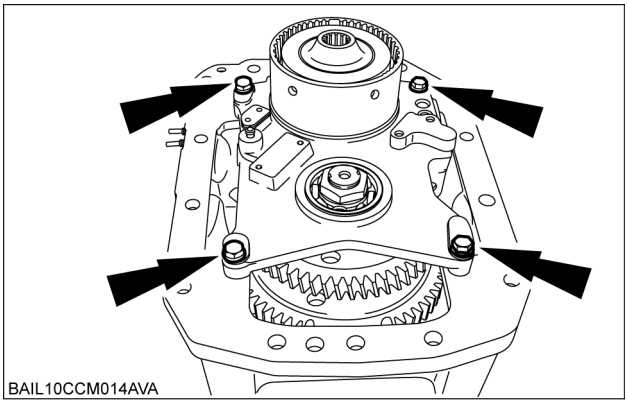
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20. Remove the support plate assembly **(1)**. Make sure that the selector fork shaft **(2)** is in the correct position on the support plate.



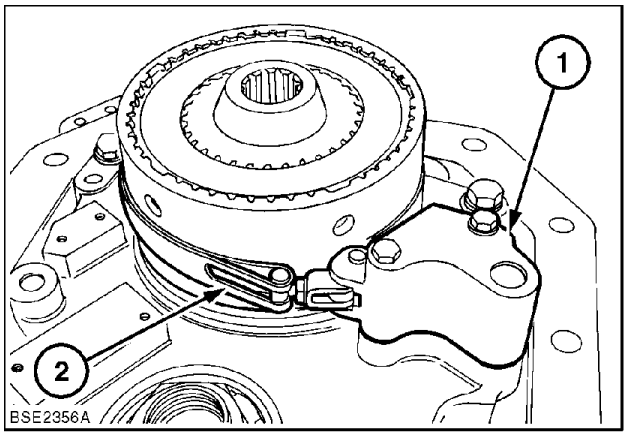
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21. Install the bolts that secure the support plate. Torque to **88 Nm** (**65 lb ft**).



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22. Install the brake band **(2)** and the brake piston housing **(1)**.



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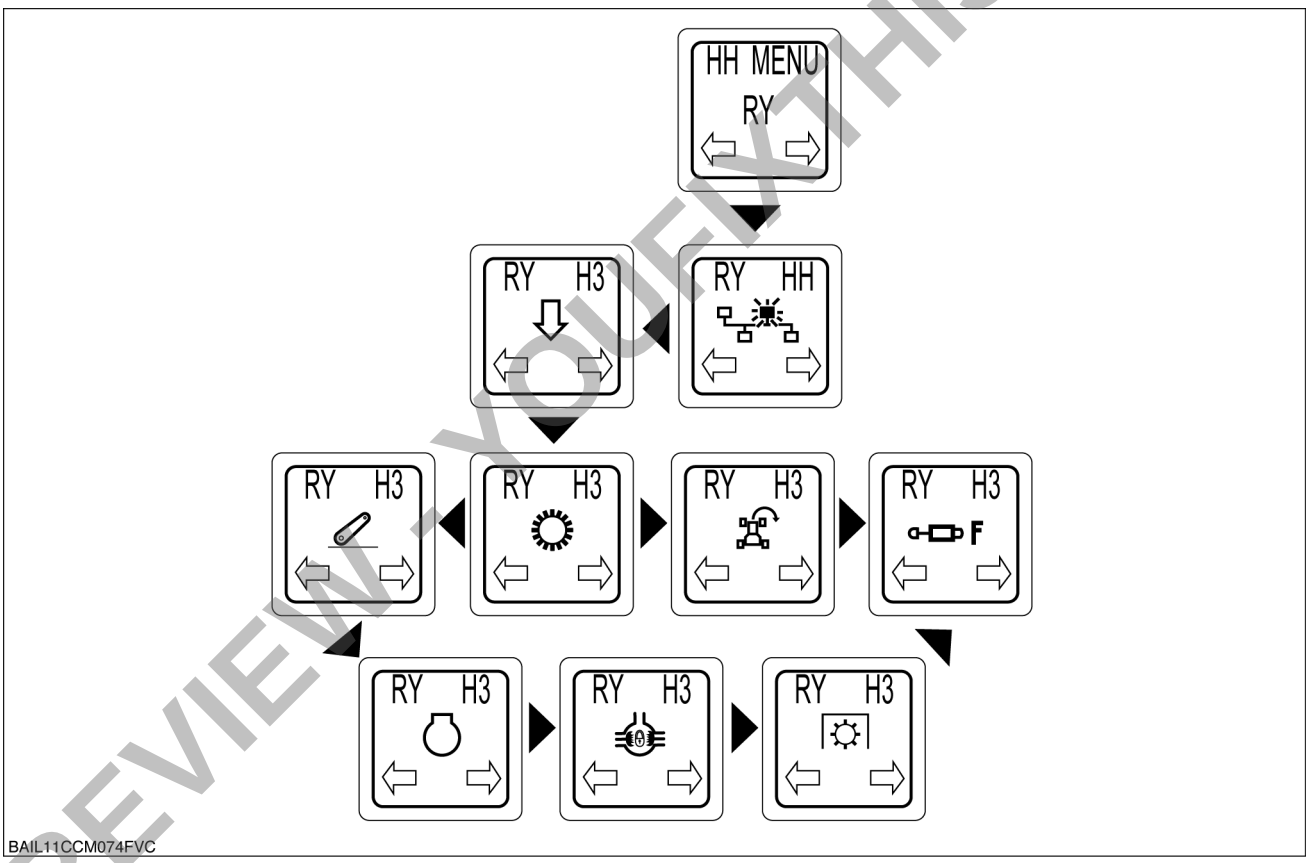
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Electronic module Central Control Unit (CCU) - H3 - Configurations and options Without Sidewinder

The Central Control Unit (RY) is used to select the options and configurations for:

- FPS Transmission
- EDC
- Electronic Engine
- Difflock and Four Wheel Drive
- Rear PTO
- Front EHR
- Headland Turn Sequence (HTS)

H3 Menu Screen Select Diagram



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