SERVICE MANUAL

TD5.65 / TD5.75 / TD5.85
TD5.95 / TD5.105 / TD5.115

Tractor

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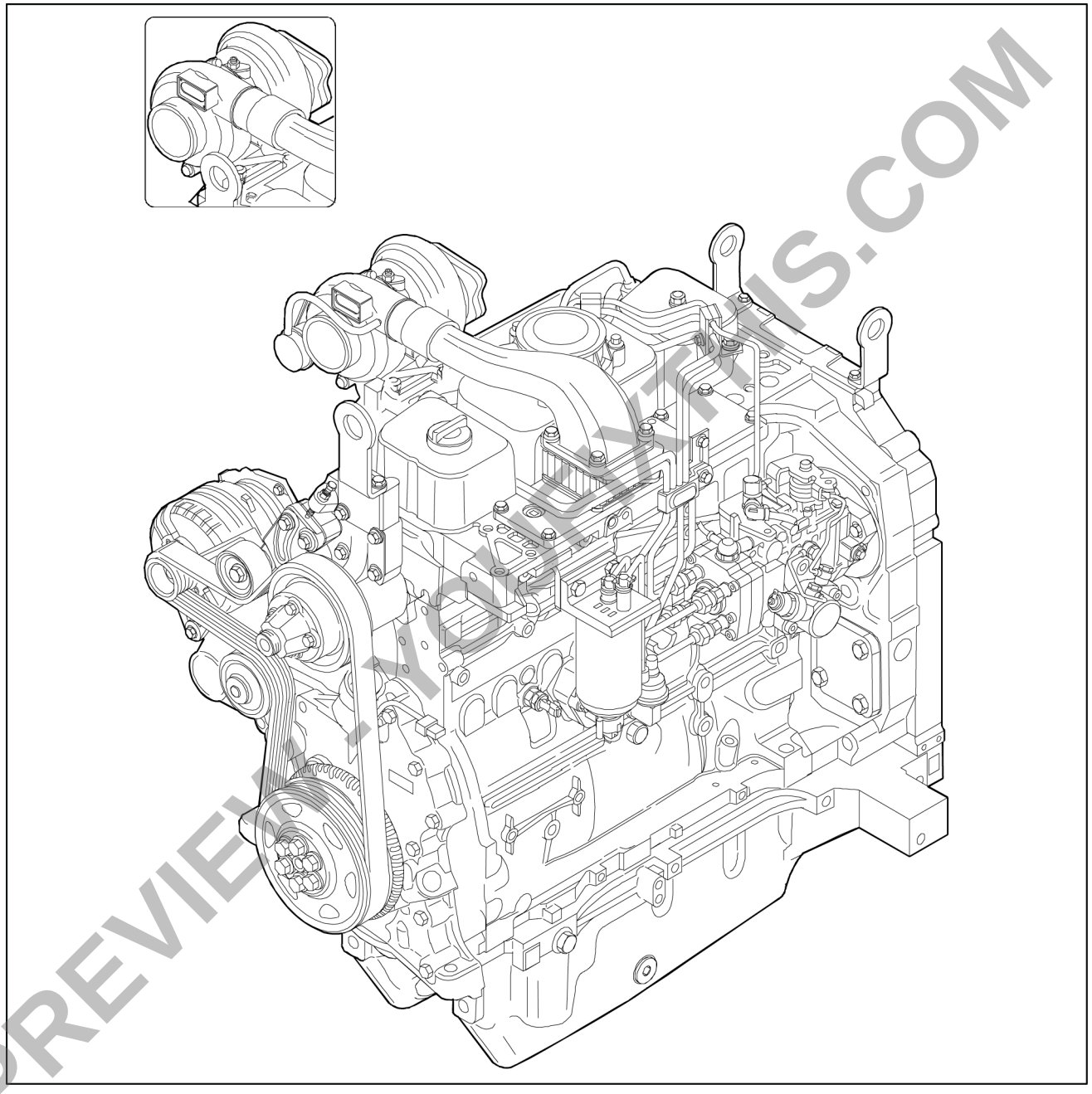
Part number 47445474
English
August 2013

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Engine - Overview

TD5.95, TD5.105, TD5.115

View of TD5.95 tractor engines of 70 kW (95 Hp), TD5.105 of 78 kW (106 Hp) and TD5.115 tractor engines of 83 kW (113 Hp)



ANIL12TR00052GA 1

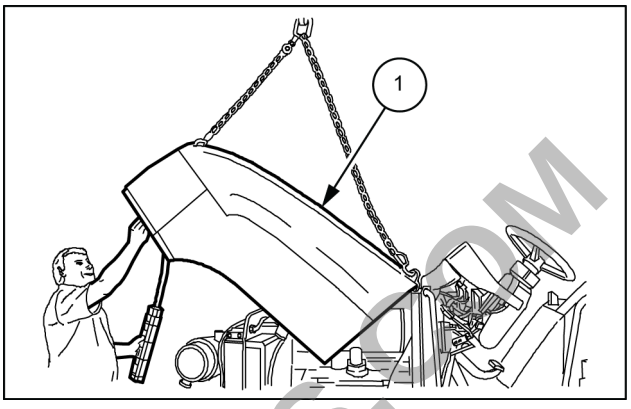
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Rocker arm - Adjust (NEF Engine)

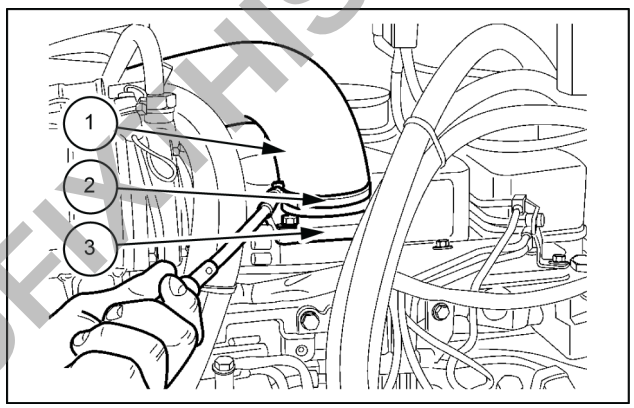
TD5.

1. Remove the bonnet **(1)** as described in operation 90 100 22.
2. Disconnect the battery negative lead.



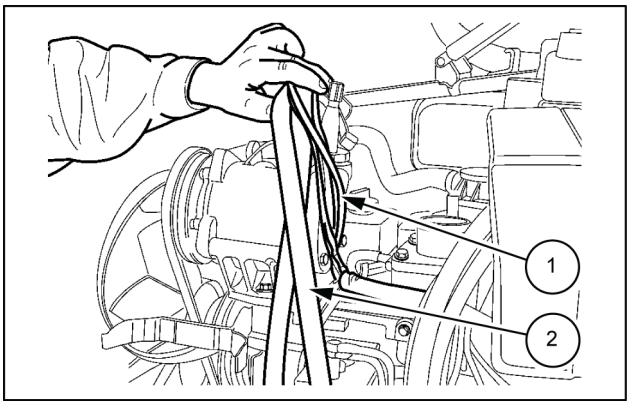
ANIL12TR01119AB 1

3. Remove the clamp **(2)** and extract the pipe **(1)** connecting the intake manifold **(3)** to the air filter.



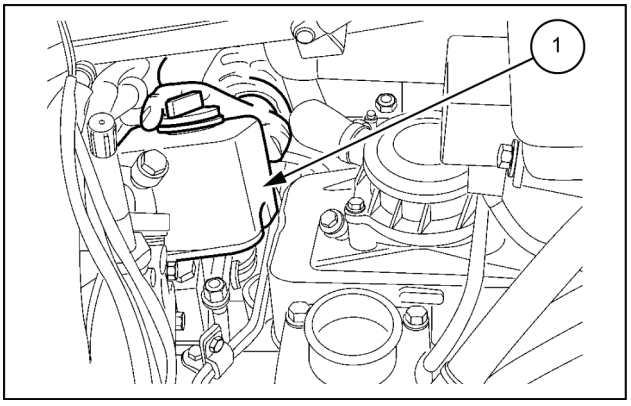
ANIL12TR01120AB 2

4. Remove the plastic retaining clamps, from the cab heater water delivery-return pipes **(2)** and those of the electric cables **(1)**, moving the pipes and cables on the compressor as described in the Fig. **3**.



ANIL12TR01121AB 3

5. Remove the retaining bolt and the front tappet inspection cover **(1)** together with the cover base seal.

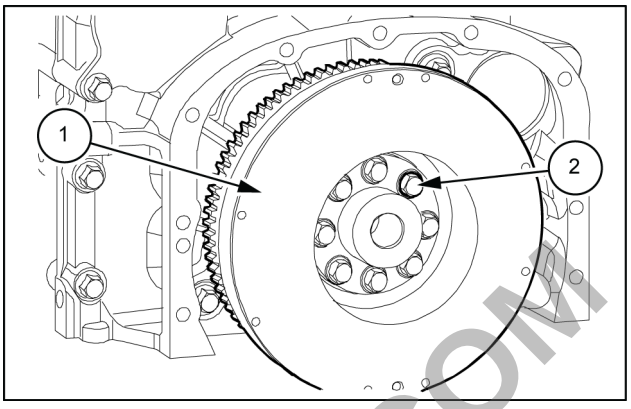


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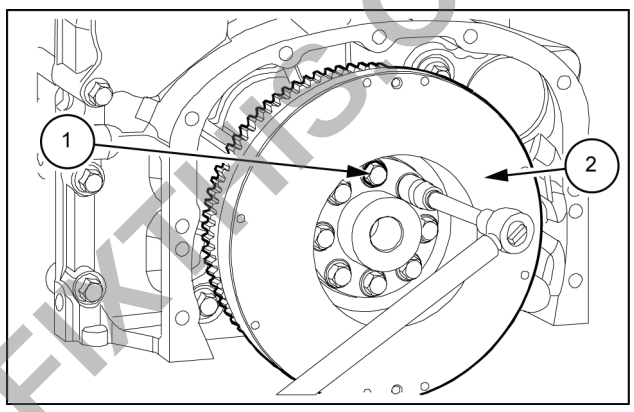
11. Manually tighten the bolts **(2)** retaining the flywheel **(1)** to the crankshaft.



ANIL12TR01117AB 16

12. Tighten the bolts **(1)** securing the engine flywheel **(2)** in two successive stages as described on page **Engine - Torque (10.001)**:
    - 1st phase, tightening with torque wrench to a torque of **25 - 35 N·m** (**18.4 - 25.8 lb ft**).
    - 2nd phase, tightening to an angle of 55° ± 65°.

NOTE: *Tightening to an angle is done with tool **380001001**.*



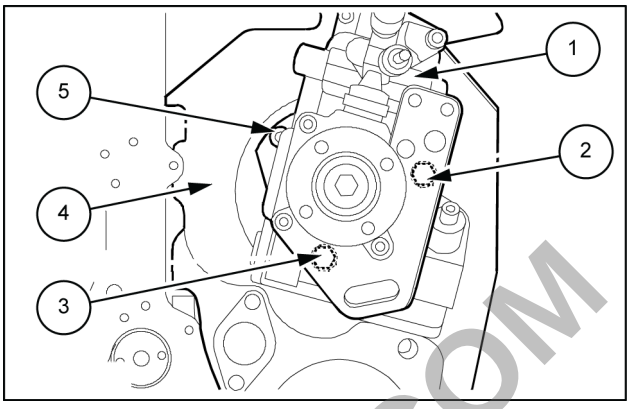
ANIL12TR01118AB 17

13. Refit the clutch as described in operation 18 110 10.

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14. Remove the three nuts **(2)**, **(3)** and **(5)** securing the injection pump **(1)** to the engine flywheel casing **(4)** and extract it from its housing.

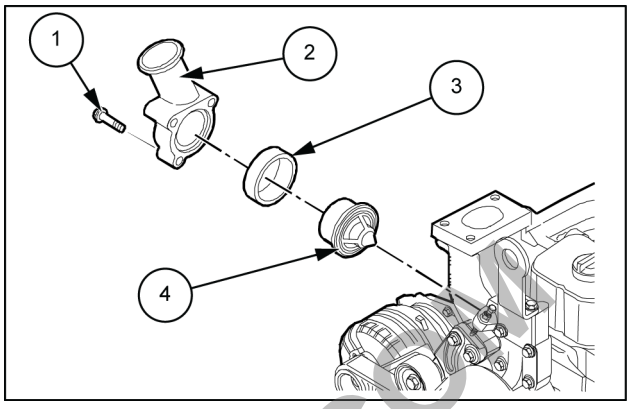


ANIL12TR00418AB 12

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7. Remove the thermostat valve body **(2)**, seal **(3)** and thermostat valve **(4)**.



ANIL12TR00434AB 5

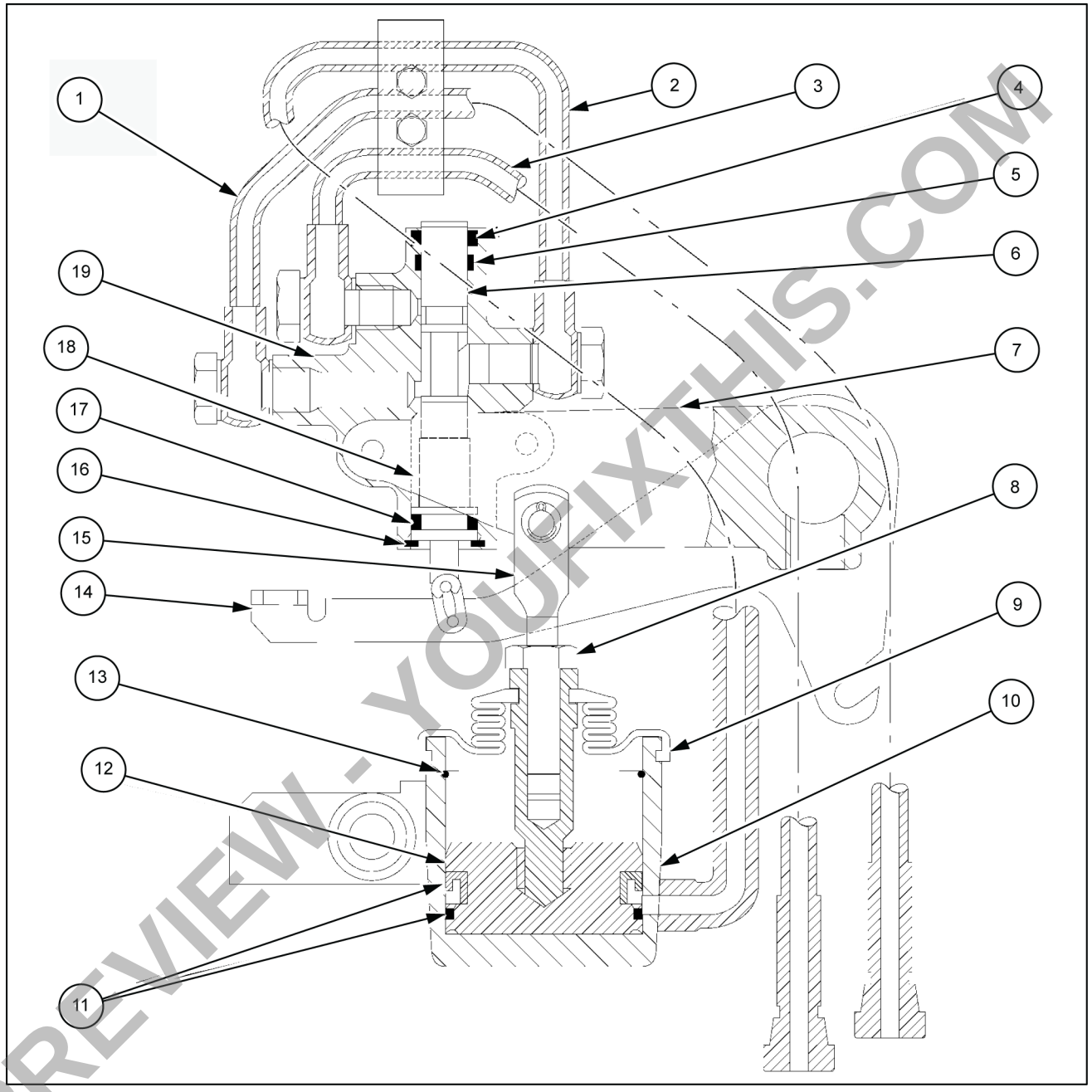
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Clutch hydraulic release control - Sectional view (8000 Engine)

TD5.

Cross-section of PTO servo control

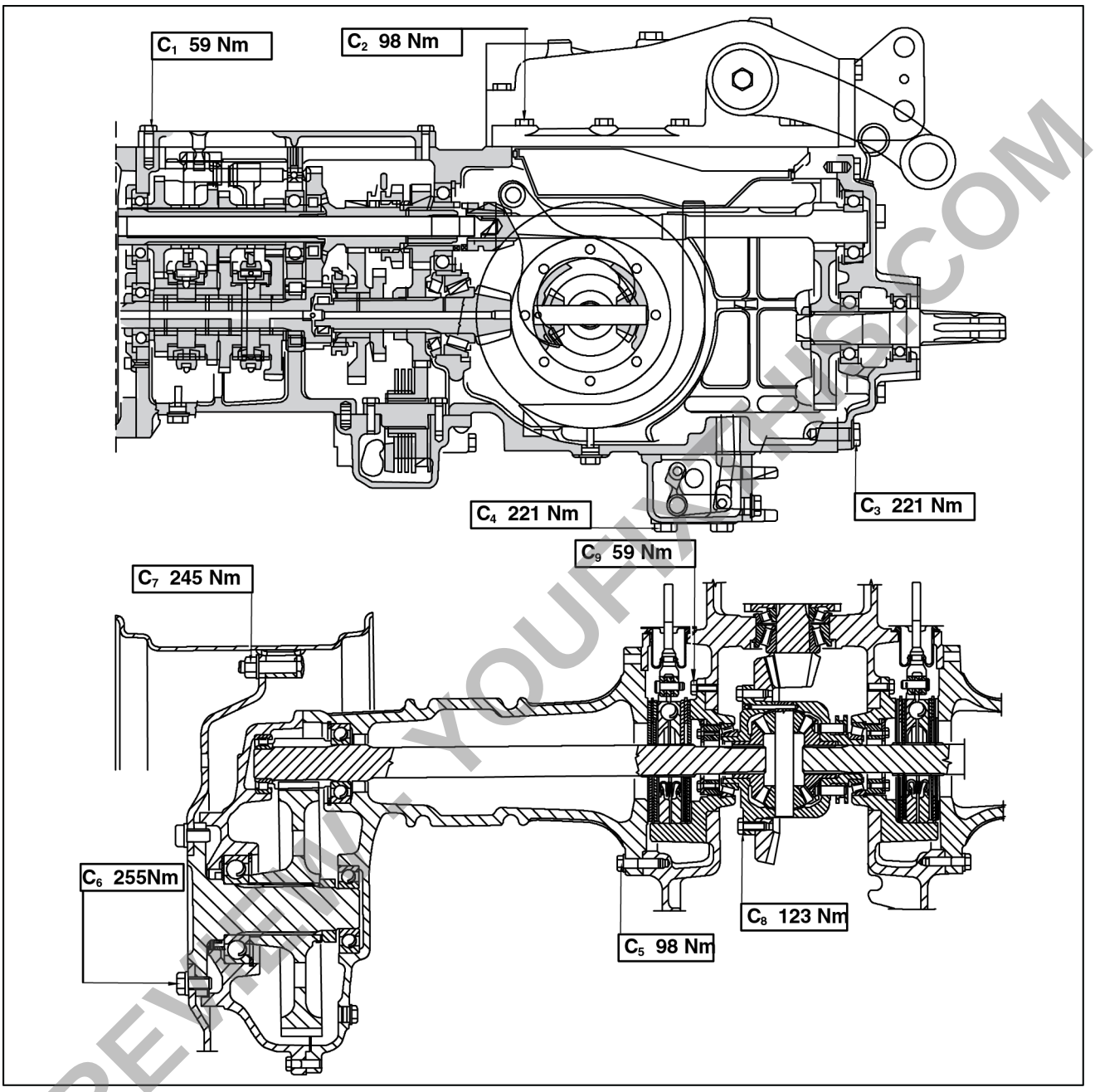


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Parts	Thread	Torque setting
Ring bevel gear retaining bolts **(C_8)**	**M12 x 1.25**	**123 N·m (90.72 lb ft)**
Bevel gear pair support retaining bolts **(C_9)**	**M10 x 1.25**	**59 N·m (43.52 lb ft)**



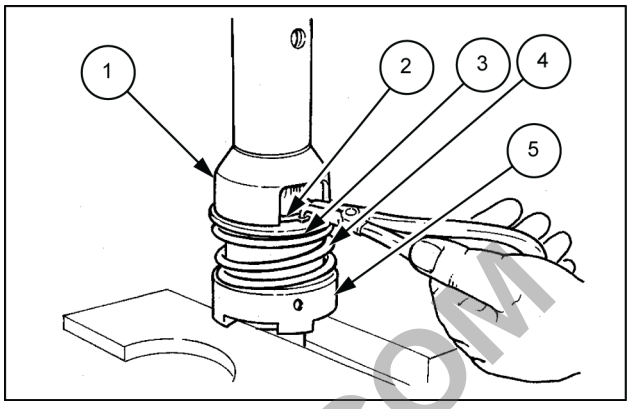
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Mechanical transmission - Special tools (12 x 4)

TD5.

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10. Rotate the driven shaft through 180°, position on the press as indicated in the drawing and, after having fitted an adapter **50107 (1)** on the shaft, operate the press to compress the spring **(4)**. Remove the snap ring **(2)**, plate **(3)**, spring **(4)** and mobile toothed coupling **(5)**.

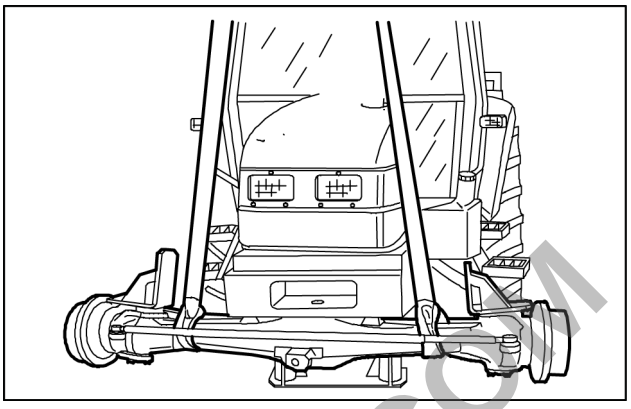


ANIL12TR00227AB 8

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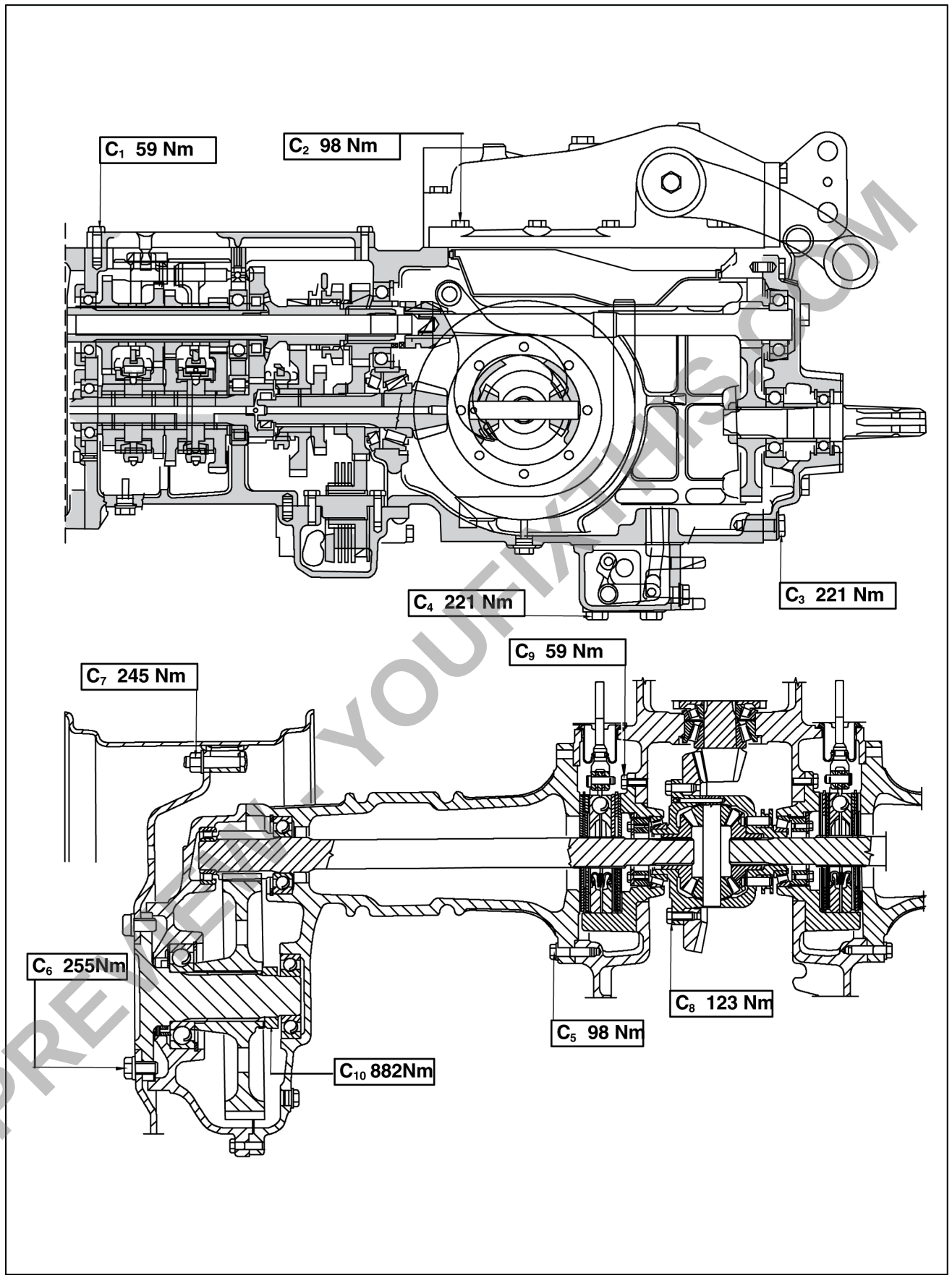
12. Using a hoist and two nylon cables (one for each side) detach the front axle from the tractor.



ANIL12TR00316AA 12

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ANIL12TR00234HA 1

Sectional views

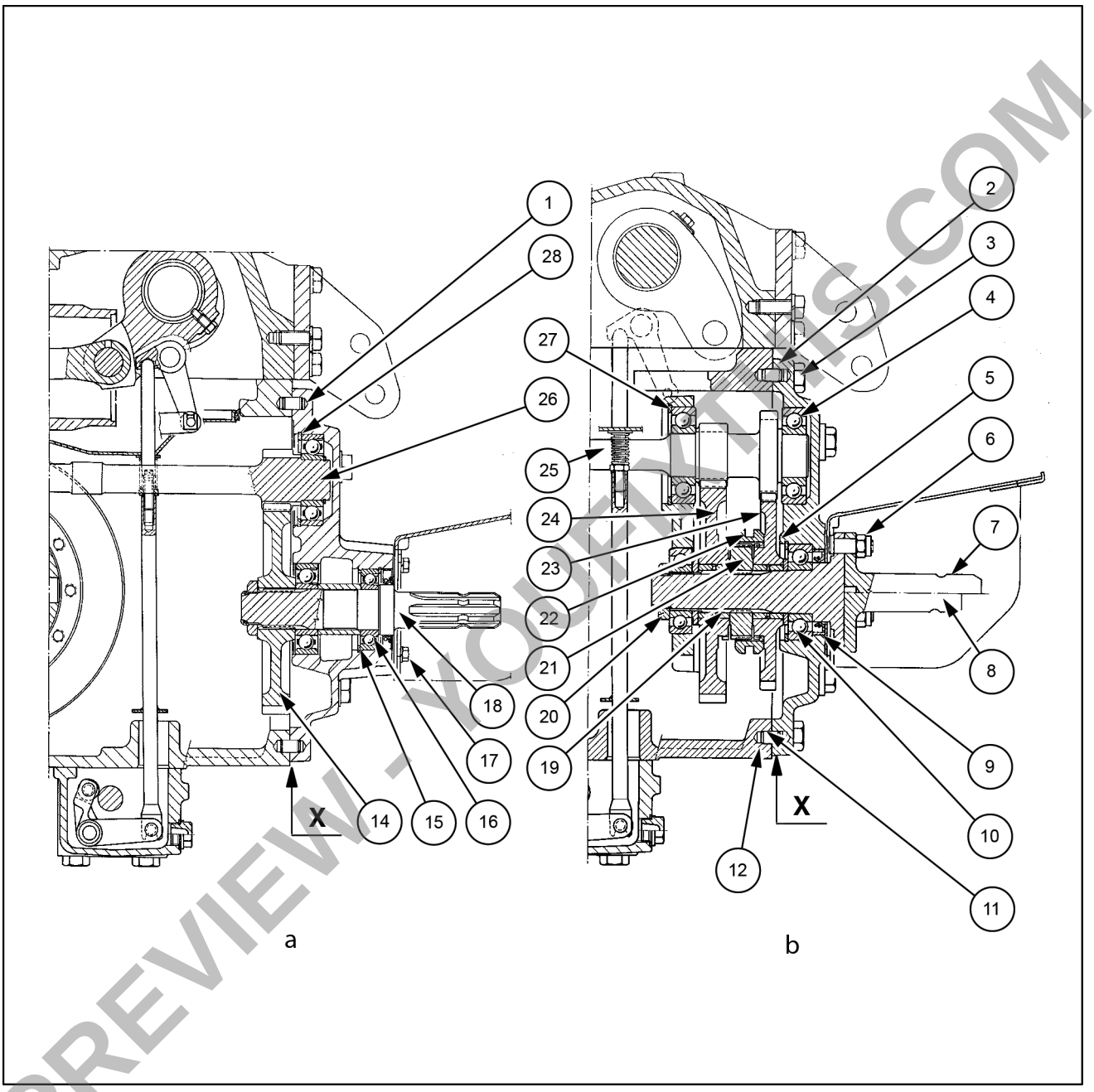
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Rear mechanical control - Sectional view

TD5.

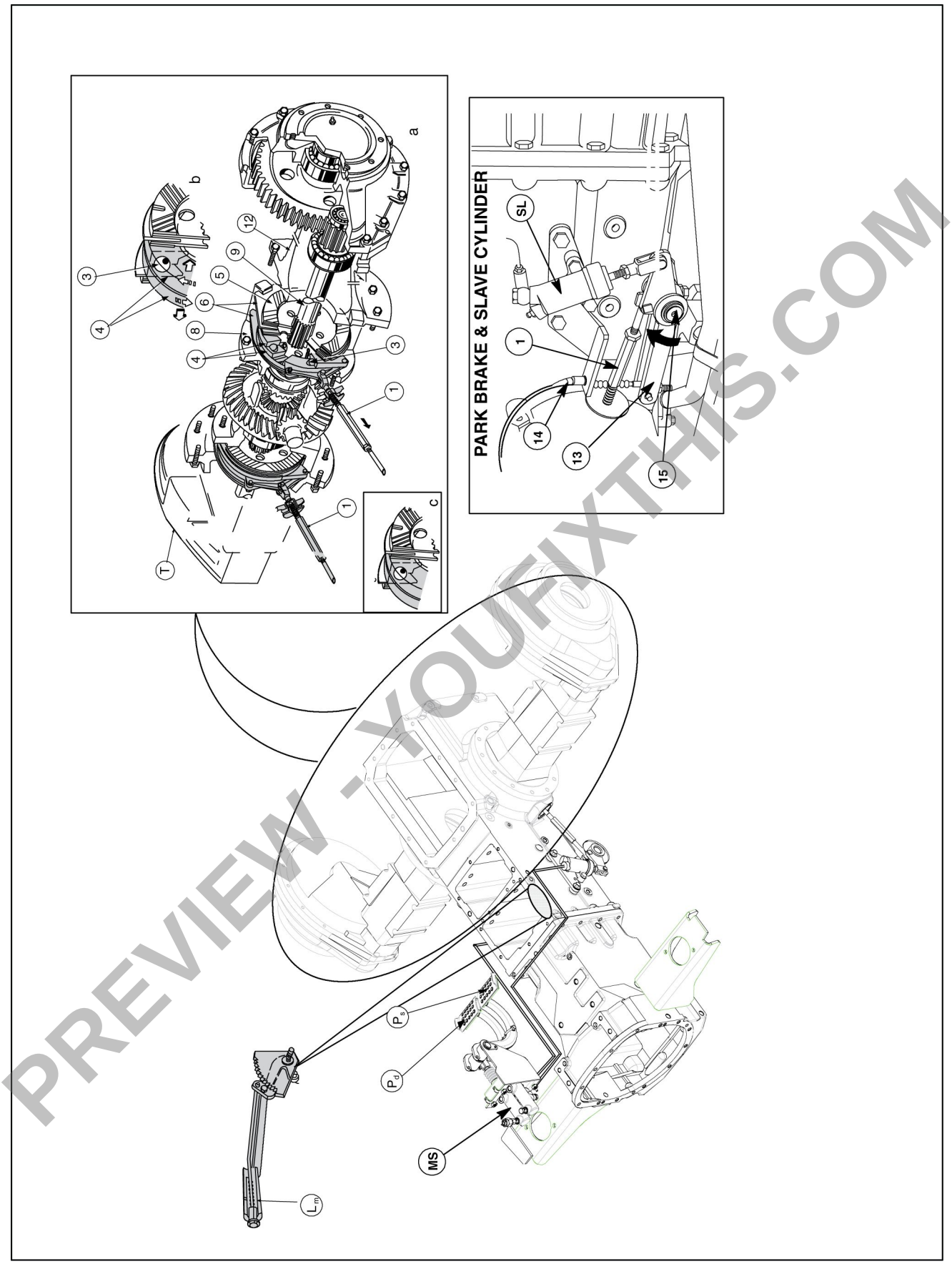
Sectional diagrams of single- and 2-speed PTO



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ANIL12TR00539HA 2

View of service and park brake controls

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Hydraulic systems - Dynamic description

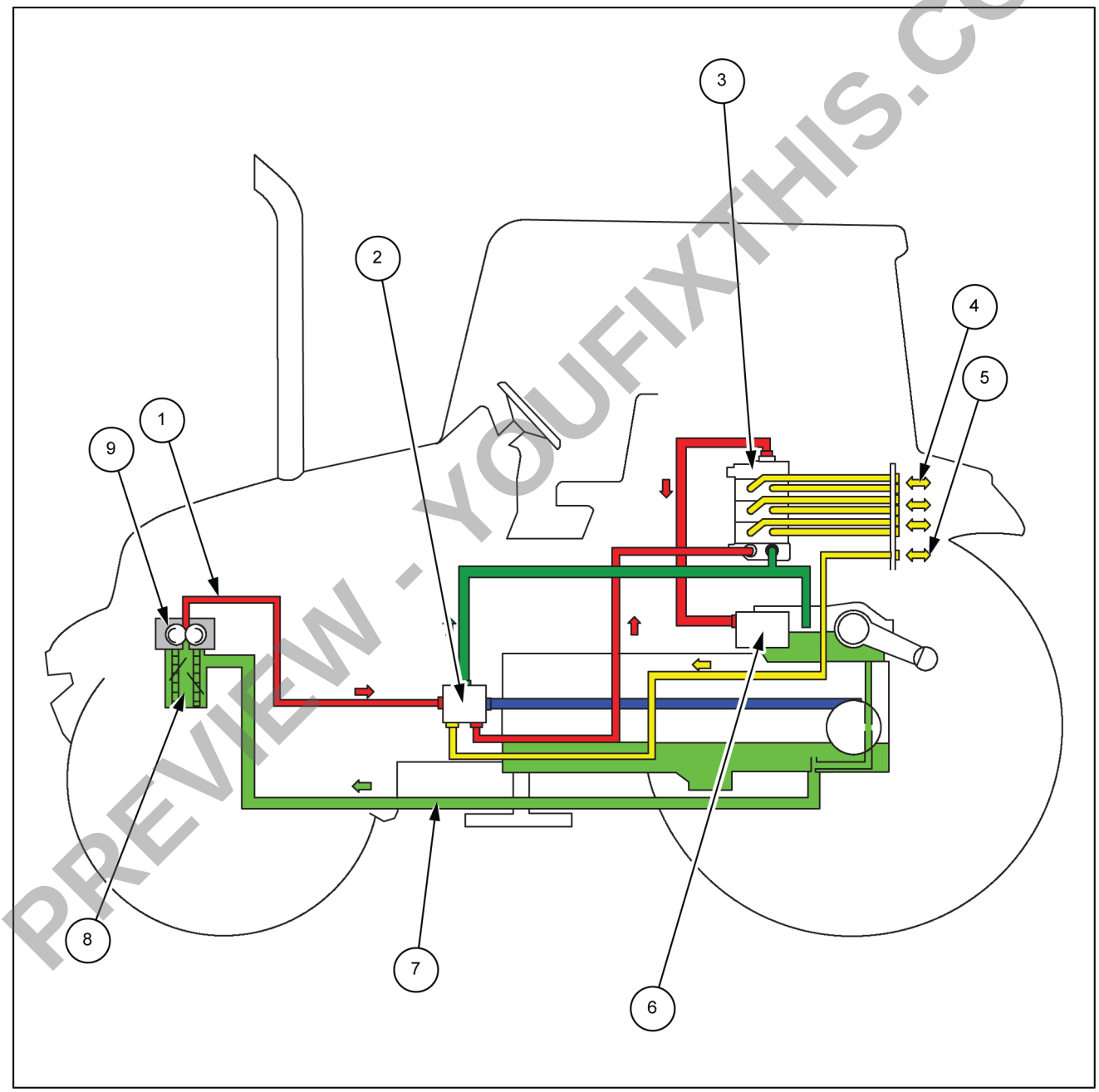
TD5.

Hydraulic lift circuit

The mechanical lift can operate with controlled position or draft control and with a combination of the two. The lift is controlled by two levers located on the operator's right. It also features the Lift-O-Matic device which raises and lowers the implement without the need to use the position and draft control levers.

Draft control is actuated by the flex bar positioned in the special box mounted under the rear transmission.

The lower lift arms and corresponding control rods are connected to the flex bar.



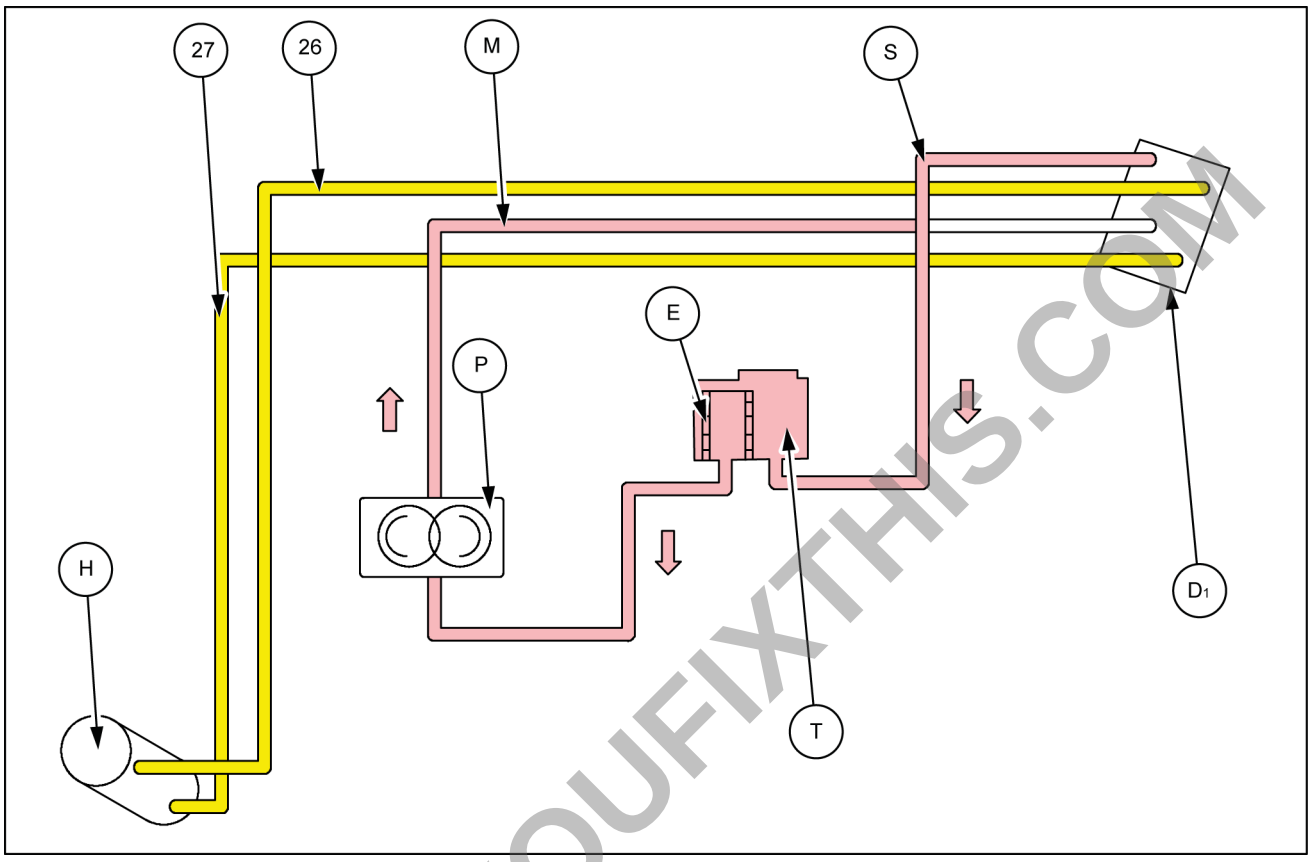
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Hydraulic control components - Overview

TD5.



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General hydraulic diagram

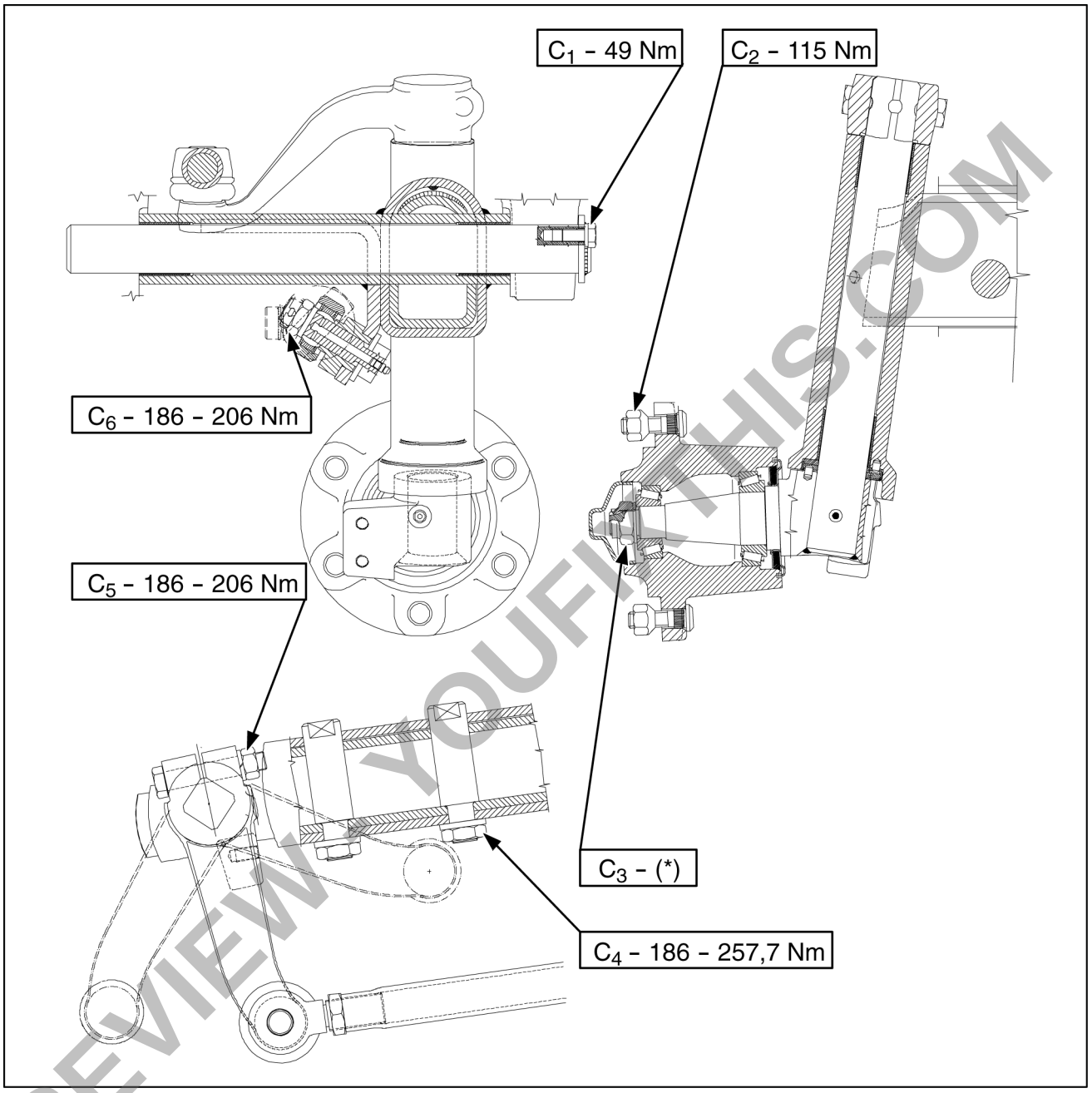
(H) Power steering cylinder
(D1) Hydrostatic steering control valve
(E) Filter
(T) Oil tank
(P) Pump
(26) Oil in intake line
(27) Oil in delivery line from pump
(M) Oil delivery to control valve
(S) Oil at lubrication pressure

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Front wheels - Torque

TD5.



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C_1.	Axle articulation pin fixing screw	C_4.	Axle end fixing nut
C_2.	Retaining bolt holding the disc to the wheel hub	C_5.	Nut for stub axle pin control lever fixing screw
C_3.	Bearing adjuster nut	C_6.	Nut securing cylinder to fulcrum pin

* See **Planetary drive and hub - Install (25.108)** and **Planetary drive and hub - Install (25.108)**.

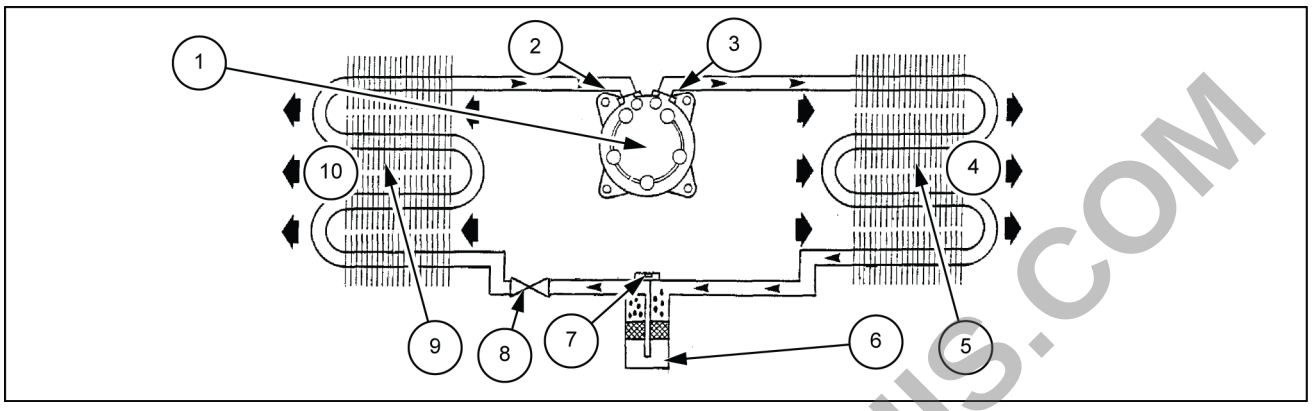
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Air conditioning - Detailed view

TD5.

Schematic of air-conditioning system

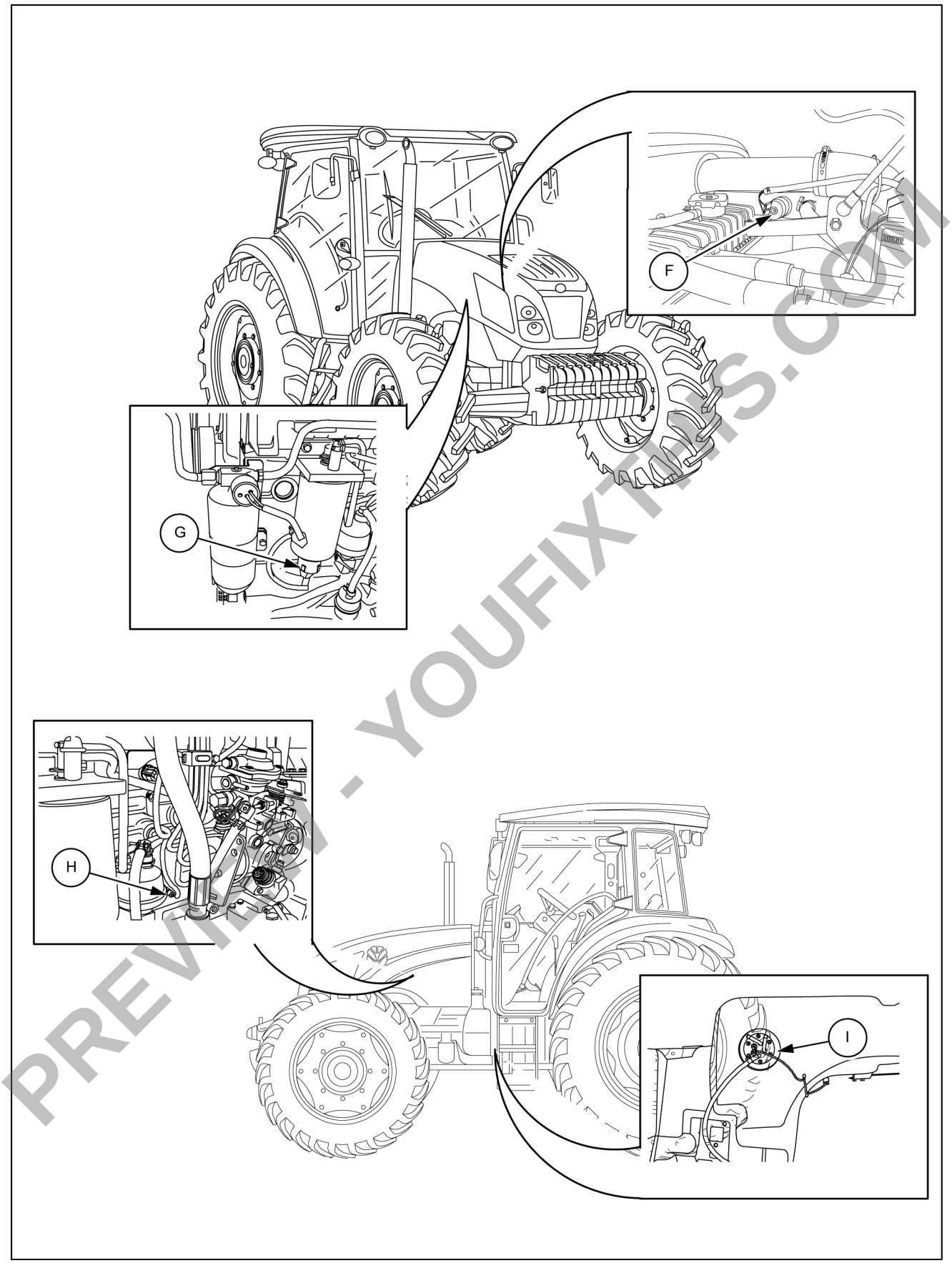


ANIL12TR00969EB 1

1. Compressor
2. Compressor inlet pipe (low pressure)
3. Compressor outlet pipe (high pressure)
4. Hot air
5. Condenser
6. Receiver-drier
7. Sight glass
8. Expansion valve with thermostatic sensor
9. Evaporator
10. Cool, dehumidified air

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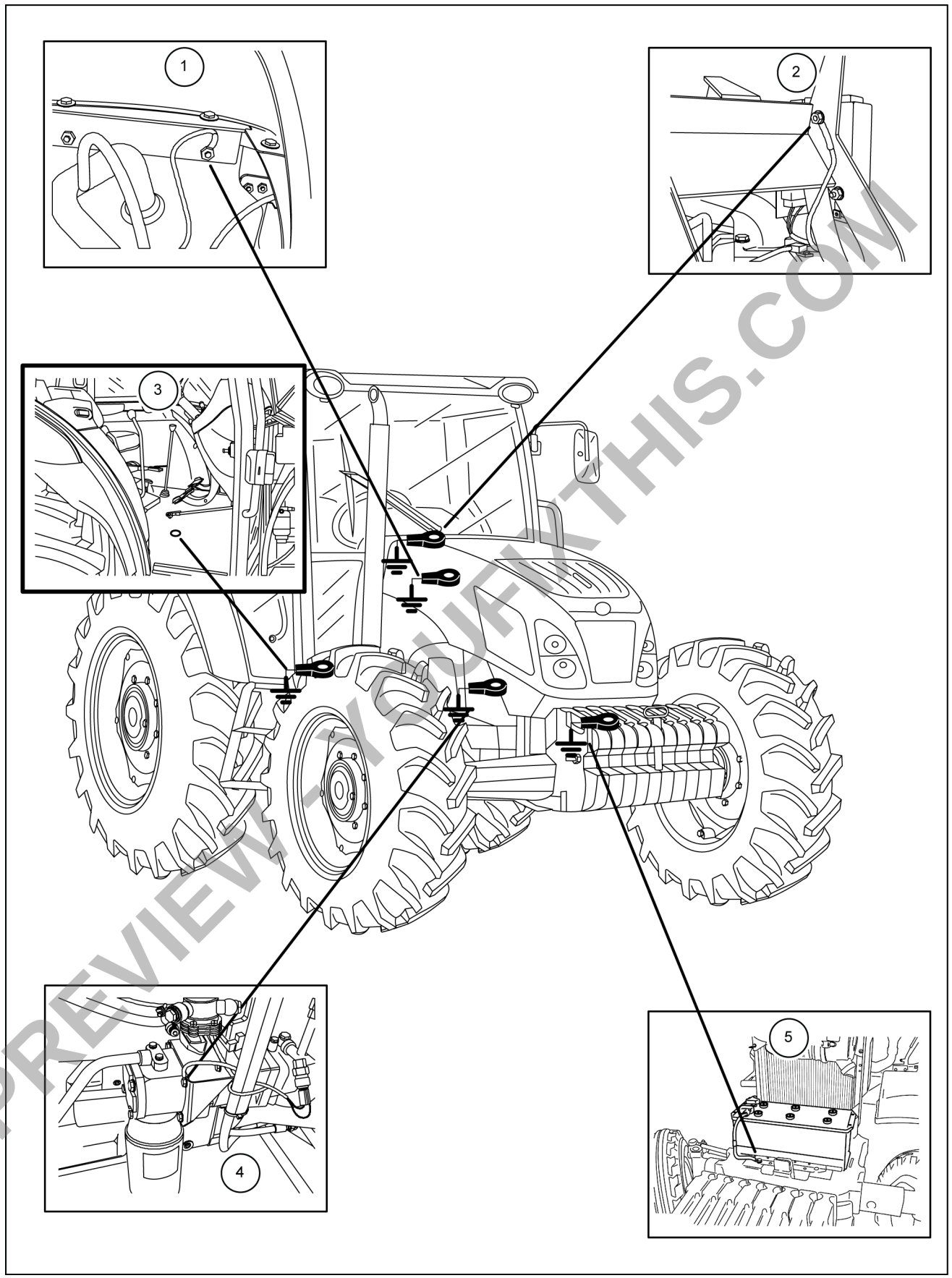
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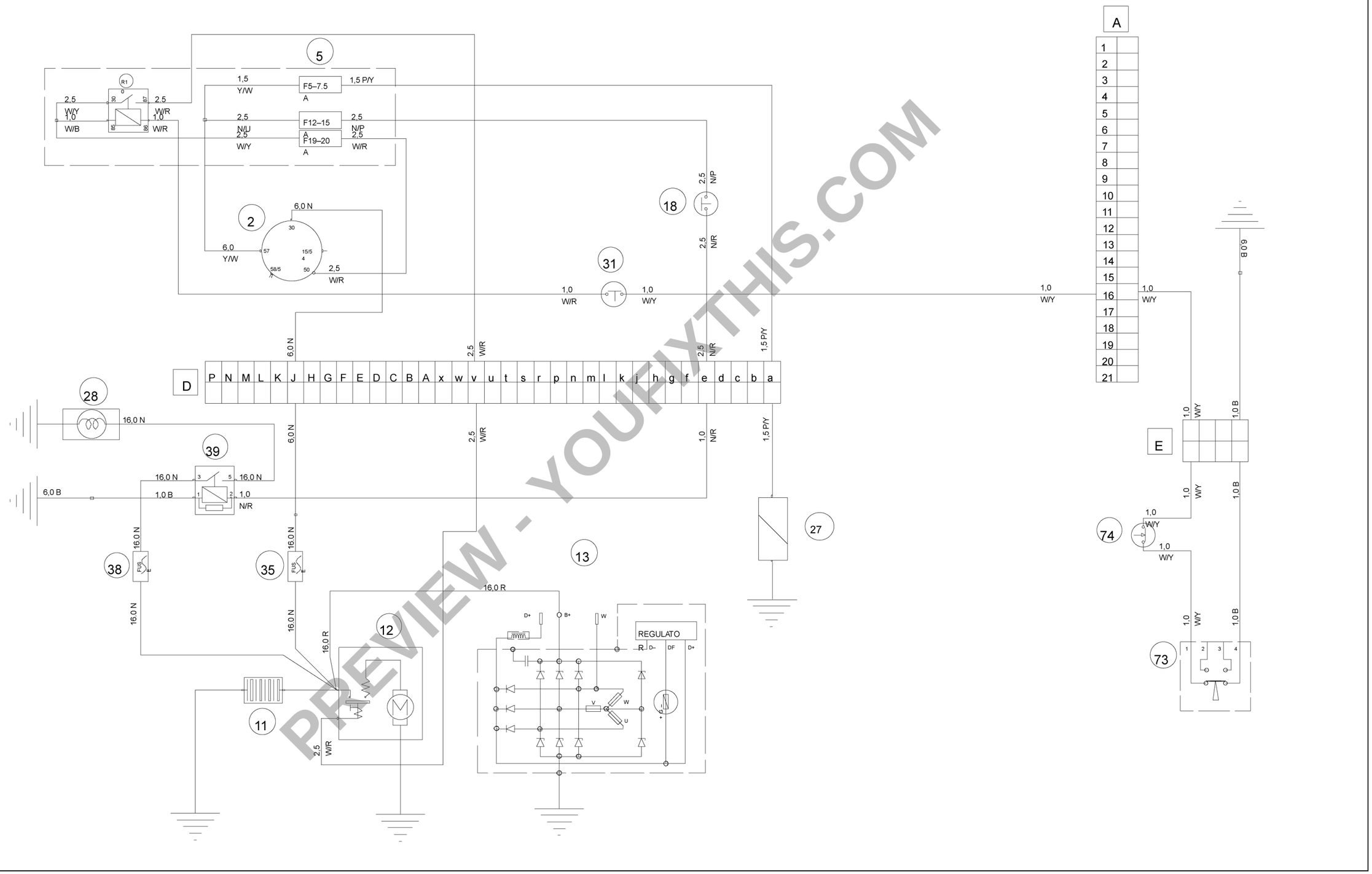
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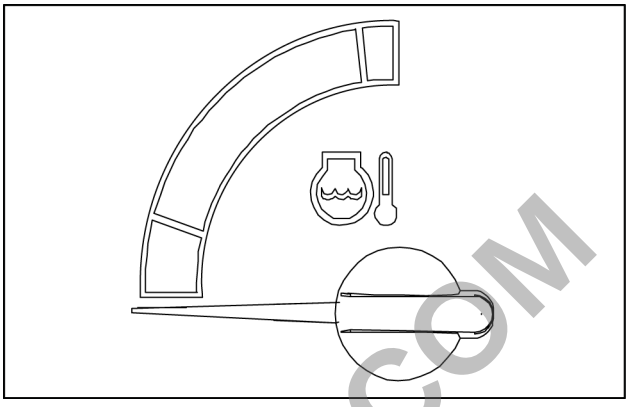
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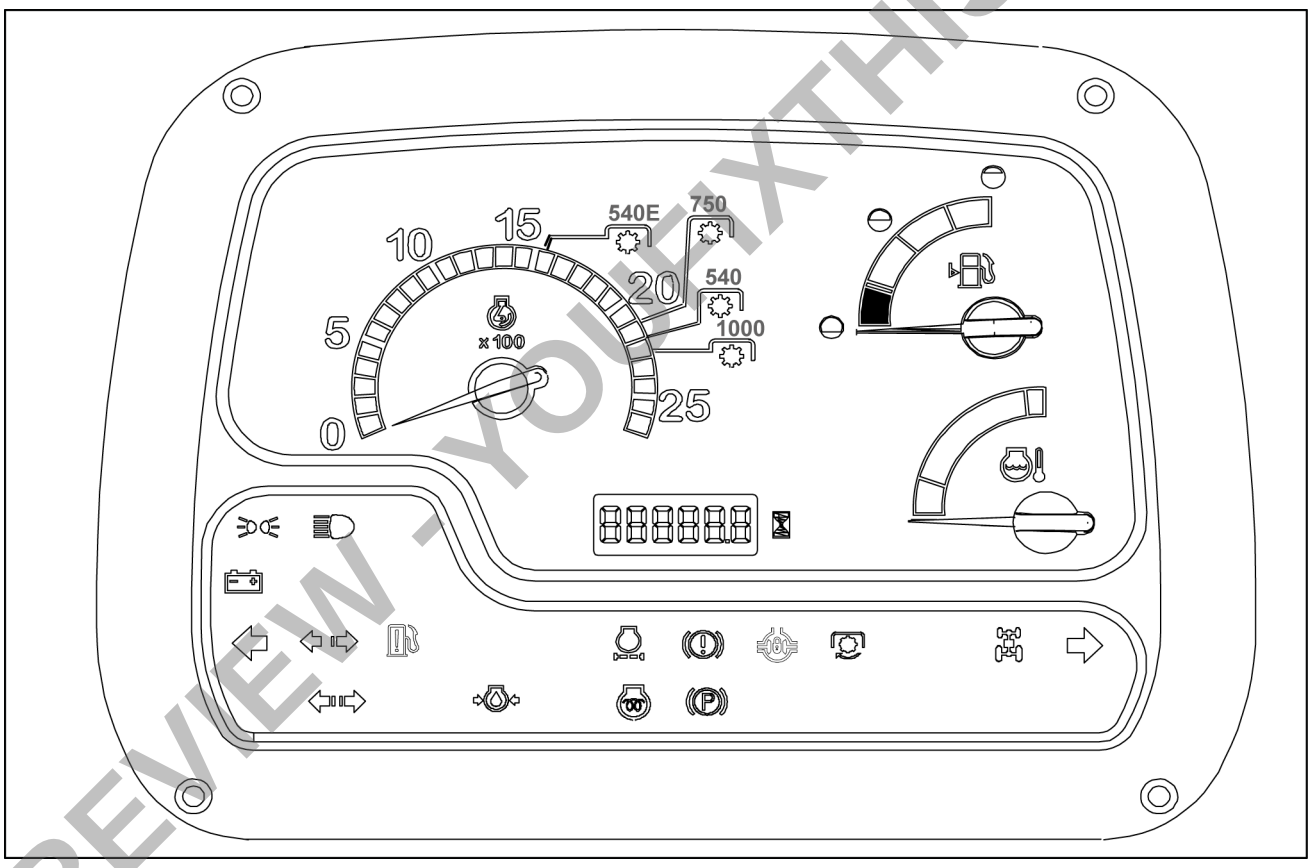
Engine coolant temperature gauge (Fig. 5)

- Green area = Normal temperature.
- Blue area = Temperature too low.
- Red area = Engine overheating.



ANIL12TR01334AA 6

Instrument panel and console controls



ANIL12TR01342FA 7

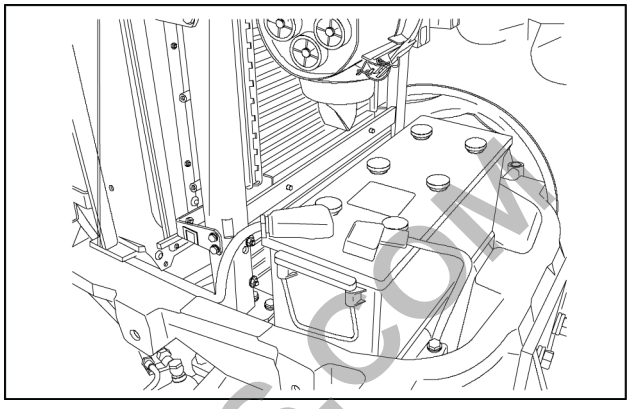
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Cab - Disassemble

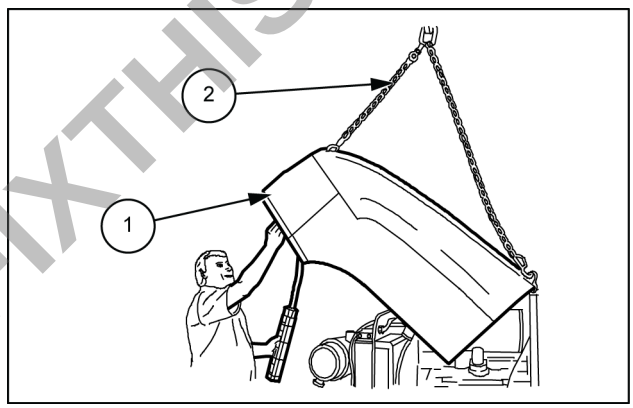
TD5.

1. Disconnect the negative cable from the battery.



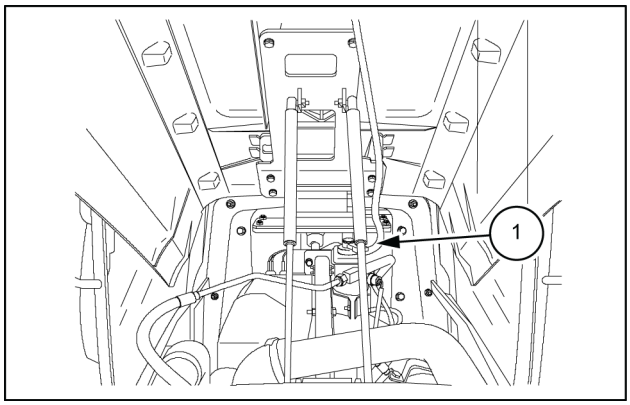
ANIL12TR01439AA 1

2. Remove the exhaust pipe, attach lifting chains **(2)** to the bonnet **(1)** and attach the chain to the hoist.



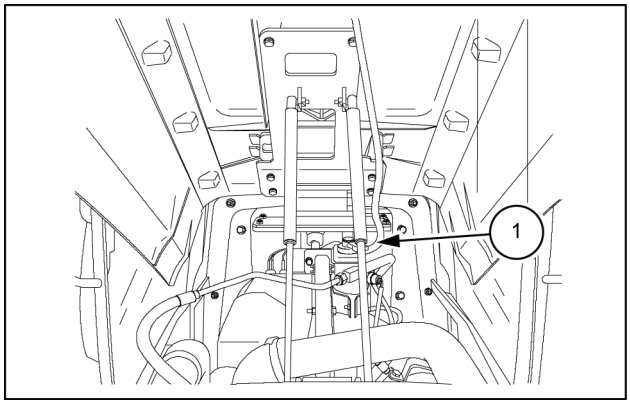
ANIL12TR01715AB 2

3. Disconnect the electrical connection **(1)** of bonnet.



ANIL12TR01716AB 3

4. Detach the gas struts **(1)** from the bonnet.



ANIL12TR01716AB 4

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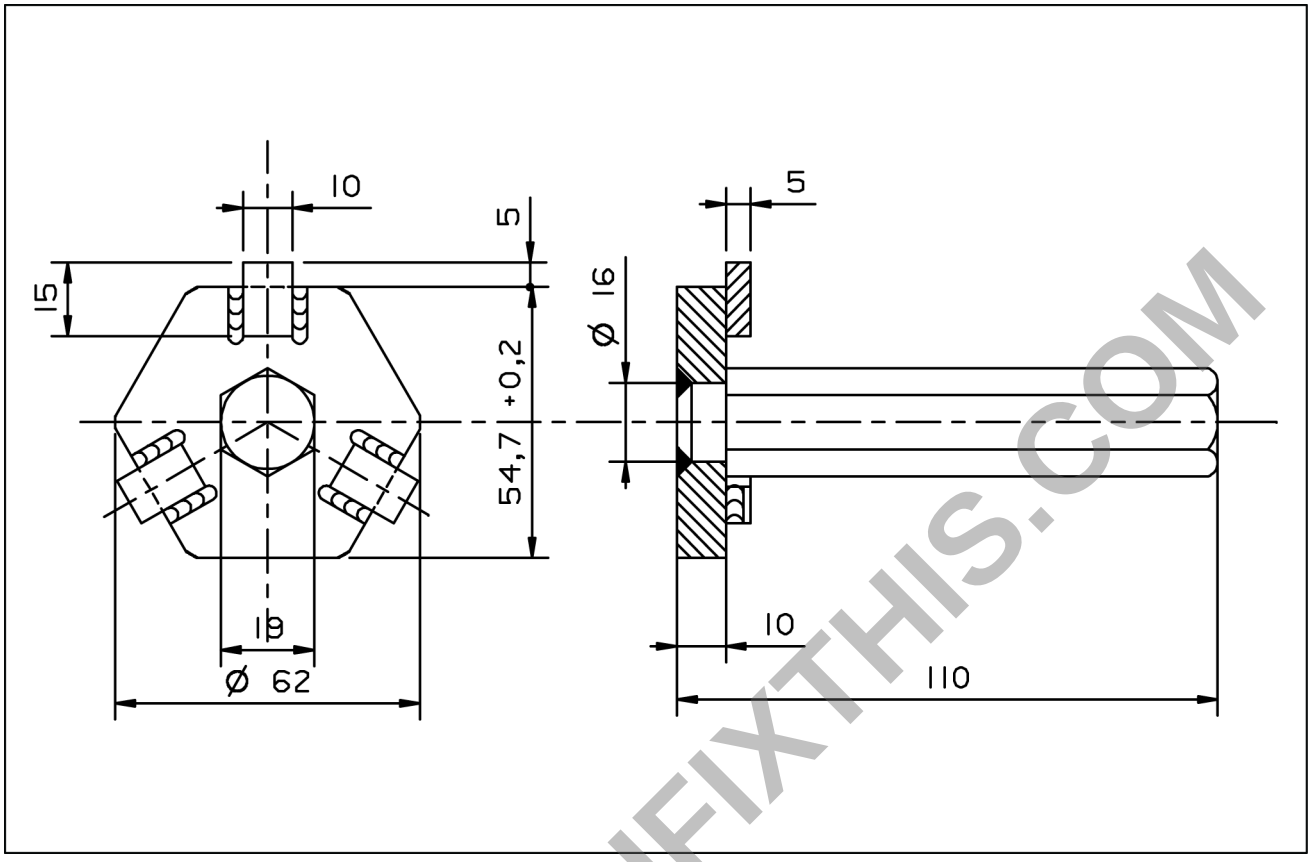
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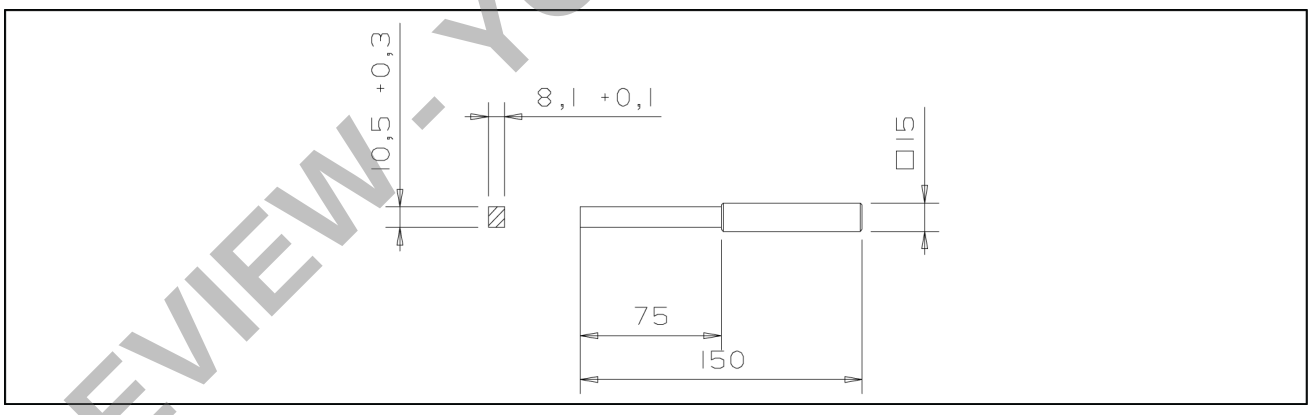
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Tool to make for adjusting the bevel drive
(engrave No. 50027 on the tool - measurements in mm)
Make in Fe 42 C material



ANIL12TR00237EA 3

Tool to be constructed for adjusting differential lock sleeve travel
(Mark part with No. 50041 - measurements in mm)
Make using C40 material

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