WEBM006300

SHOP MANUAL

WB97R-5

BACKHOE-LOADER

SERIAL NUMBER

WB97R-5 F50003 and up

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TRANSMISSION TROUBLESHOOTING

Vehicle does not move	
CAUSES	**REMEDY**
Faulty supply to solenoid valves	Check/Replace
Damaged wiring connections between transmission and vehicle	Repair/Replace
Oxidised contacts in electrical wiring	Clean
Break in electric cable	Replace
Damaged solenoids	Replace
Damaged sensors	Replace
Short circuits or false contacts	Check/replace fuses
Gear selector and direction of movement selector malfunction	Replace selector
Shift electronic control malfunction	Replace
Incorrect oil level	Top up
Check for leaks	Repair/Top up
Blocked intake filter	Clean
Damaged oil pump	Replace
Damaged oil pump relief valve	Replace oil pump
Blocked/damaged transmission filter	Replace
Damaged/jammed control valve	Replace
Damaged converter	Replace
Oil temperature below 00C	Wait for oil to reach working temperature (stall test)
Damaged rotary seals	Replace
Reverser locking	Repair
Worn clutch unit	Replace/Repair clutch unit
No drive transmission (broken gears, shafts, bearings, etc.)	Check/Repair/Replace

Vehicle has reduced power transmission	
CAUSES	**REMEDY**
Incorrect oil temperature	Wait for oil to reach working temperature (stall test)
Transmission oil overheating	Restore acceptable temperature values
Incorrect operating pressure	Check hydraulic circuit and replace (oil pump, filters, control valve)
Damaged converter	Replace
Incorrect oil level	Top up
Worn clutch unit	Replace/Repair
4WD clutch failure	Repair/Replace 4WD shaft group
Overheated solenoids/solenoid valves	Replace
Damaged wiring connections between transmission and vehicle	Repair/Replace
Damage to shift electronic control logic	Replace
Damaged sensors	Replace

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13 - Release the entire engine harness from the tie straps and route the harness down, and use some straps on the inner sides of the frame to let the wiring hang termporarily.

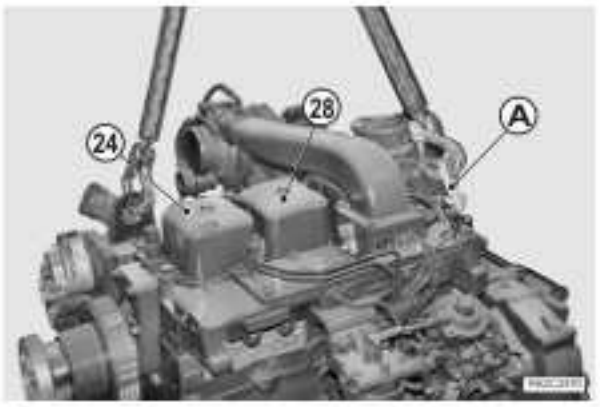
14 - Check to ensure that all hoses to the engine are released from straps or ties.



15 - Tighten a revolving lifting eye "**A**" to the muffler inner mounting hole.



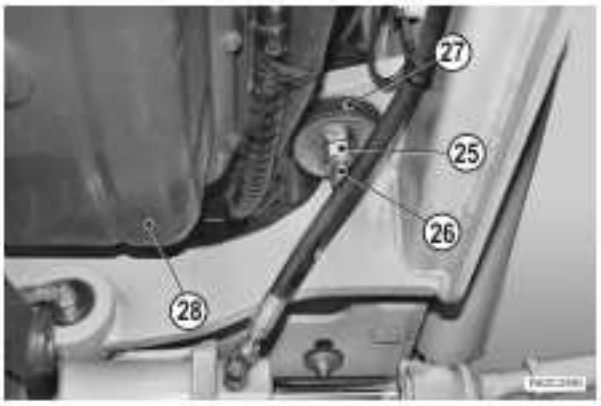
16 - Attach a lifting device to lifting eye "**A**" and to engine front bracket (24), and apply a slight tension to the chains or cables.



17 - Loosen and remove nuts (25), screws (26) and vibration dampers (27) from front engine mounts. [*1]

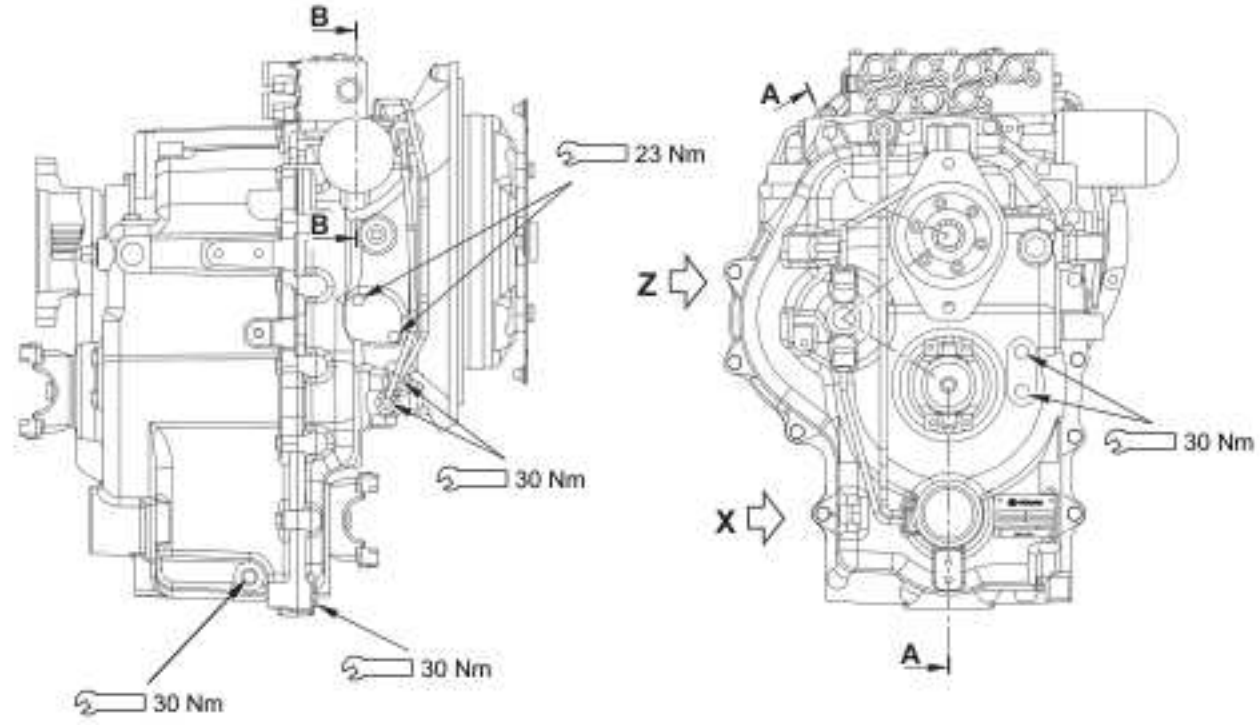
18 - Remove the engine (28).

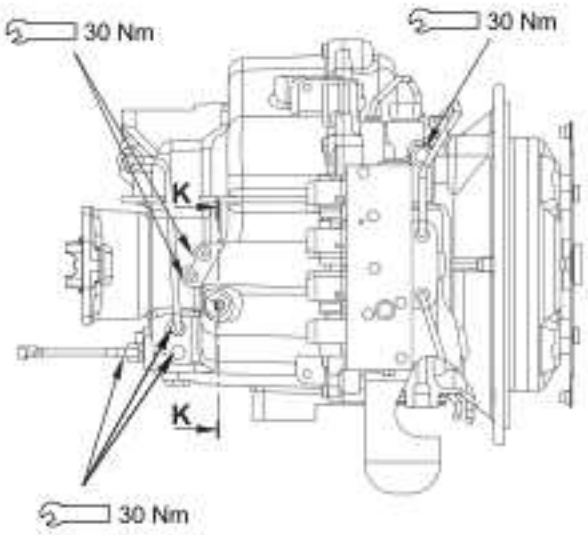
Engine: approx. 370 kg

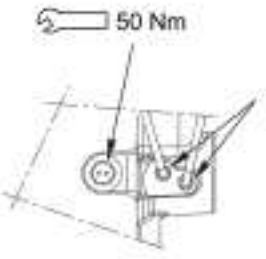


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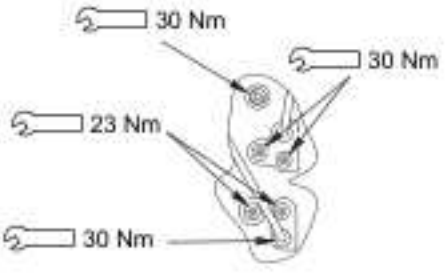
TRANSMISSION



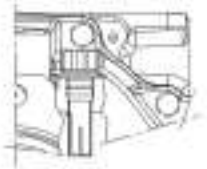




View X



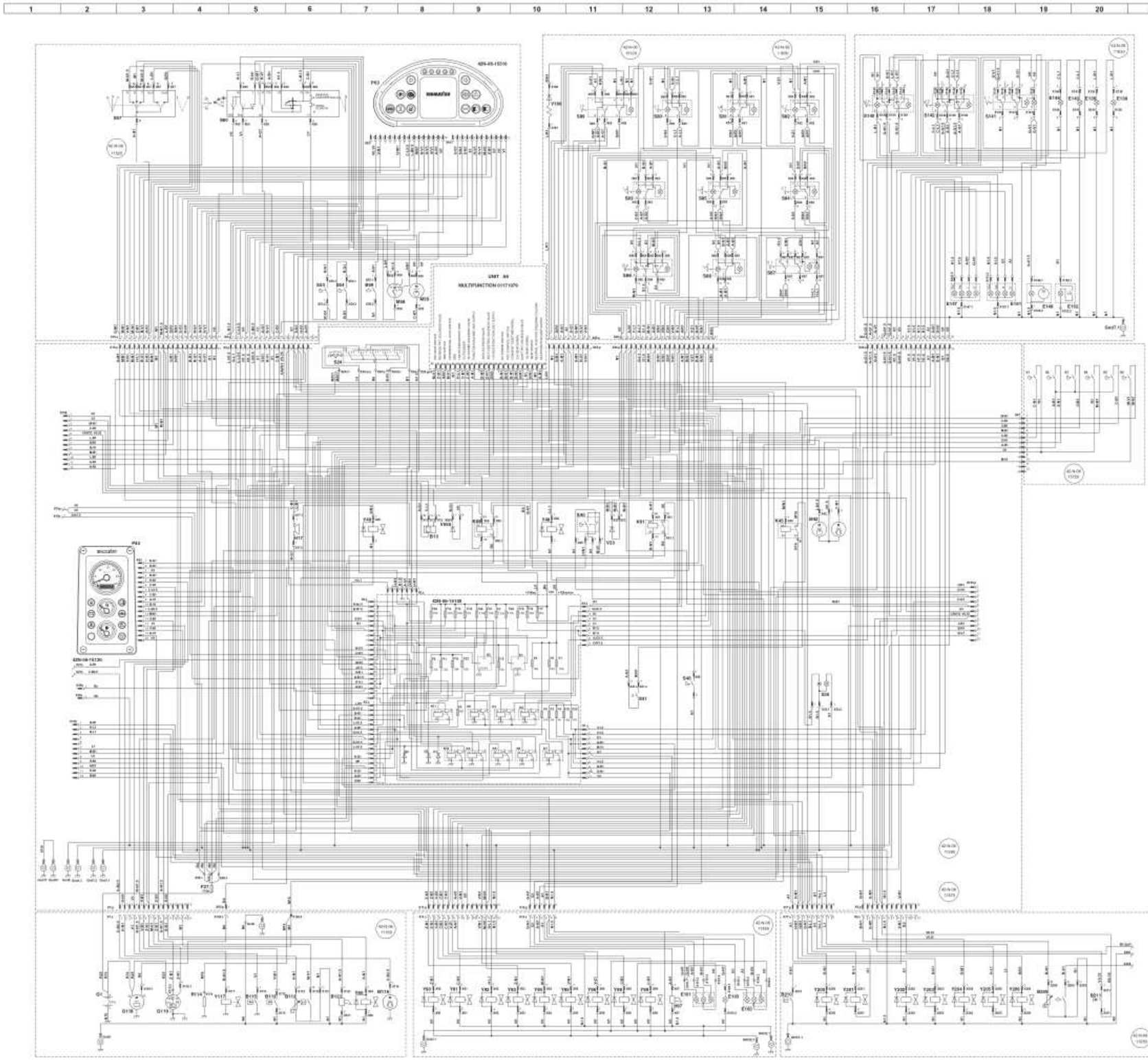
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ELECTRICAL DIAGRAM (STANDARD VERSION)



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