Service Manual

TM320

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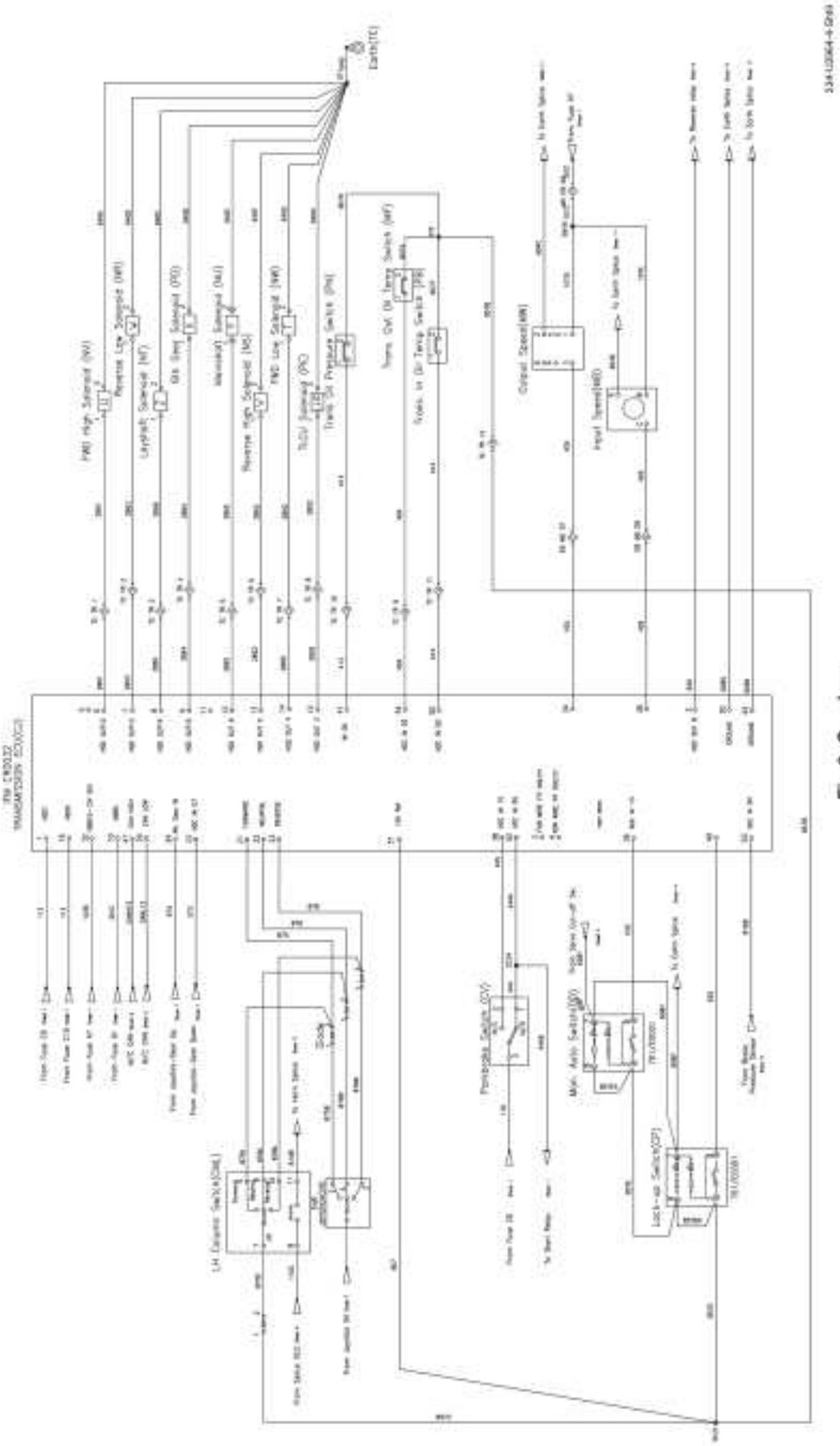


Fig 9. Gearbox

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Technical Data

Main Hydraulic Pump

Variable Flow

Type:	Variable Displacement	
Reference:	A10VO-63EKXDX/53R	
Mounting:	Gearbox	
Load Sense Pressure Margin to Pump Pressure (Delta-P)	15 bar	217 lbf/in²
Pump Stand-by Pressure (in neutral position)	25 bar	362.5 lbf/in²
Pressure Cut Off	250 bar	3626 lbf/in²
Maximum Displacement	63cc/rev	3.85in³/rev
Maximum Flow at 2350 rpm	140 L/min	30.7 gal/min
Flow in Load Sense Line	1-5 L/min	0.22-1.1 UK gal/min
Weight	35 kg	77 lb

	bar	**kg/cm²**	**lbf/in²**
Brake Charge Valve			
Cut In Pressure	140	142.76	2030
Cut Out Pressure	170	173.35	2465
Maximum Brake Line Pressure	60	61	870
Service Flows			
Boom	130 L/min	28.5 gal/min	
Extension	125 L/min	27.5 gal/min	
Tilt	125 L/min	27.5 gal/min	
Auxiliary	90 L/min	20 gal/min	

Note: *The auxiliary and the extension solenoid operated services only require 15 bar internal pilot pressure. The other services require 30 bar external pilot pressure.*

Auxiliary Pump

Flow at 2420 x 1.625 rev/min	6 cc/rev	22 L/min

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Electronic Fault Codes

Fault Code Displays

Depending on the machine specification fault codes recorded by the engine ECU can be accessed and displayed in several ways:

CAN Enabled Display

The machine may be equipped with a CAN enabled display. Such a display will be capable of displaying all recorded codes, for example E127. All logged codes will be displayed. The operator may also have a facility to erase the fault code log. See the applicable machine documentation for further information.

CANbus Connected Computer

Error codes logged can be accessed via a suitable laptop computer running the applicable diagnostics software, JCB Shiftmaster Diagnostics for example. The computer must be connected to the machine CANbus socket using a data link adapter (DLA). Once connected all recorded codes can be displayed, for example E127. The engineer also has a facility to erase the fault code log.

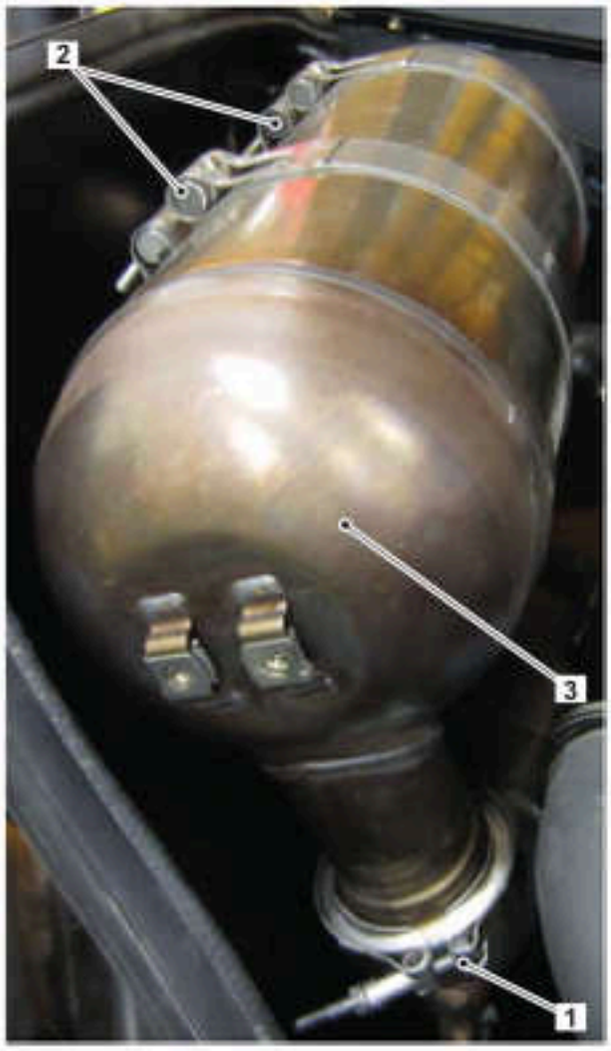
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Removal

1 Remove the exhaust clamps. There is one at each end of the catalyst.

2 Loosen the catalyst straps.

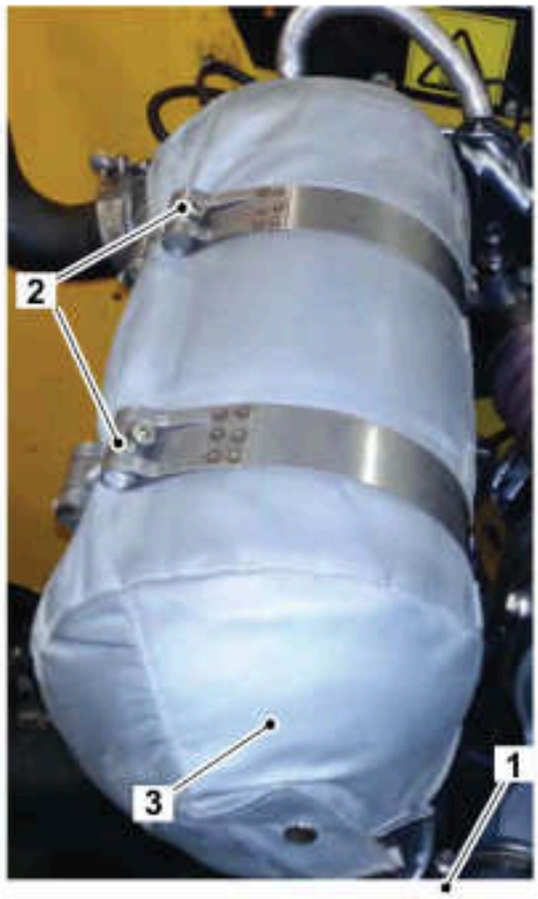
3 Remove the catalyst from the machine.



C147089

Fig 25. Catalyst without Insulation

1 Exhaust clamp
2 Catalyst straps
3 Catalyst



C147088

Fig 26. Catalyst with Insulation

1 Exhaust clamp
2 Catalyst straps
3 Catalyst

Install

1 Installation is the reversal of the removal procedure.

2 Tighten the exhaust clamps to the correct torque value. Check whether the clamp is a standard joint (1a) or a sealing ring joint (1b).

Table 8. Torque Values

Item	Nm
1a	10
1b	14

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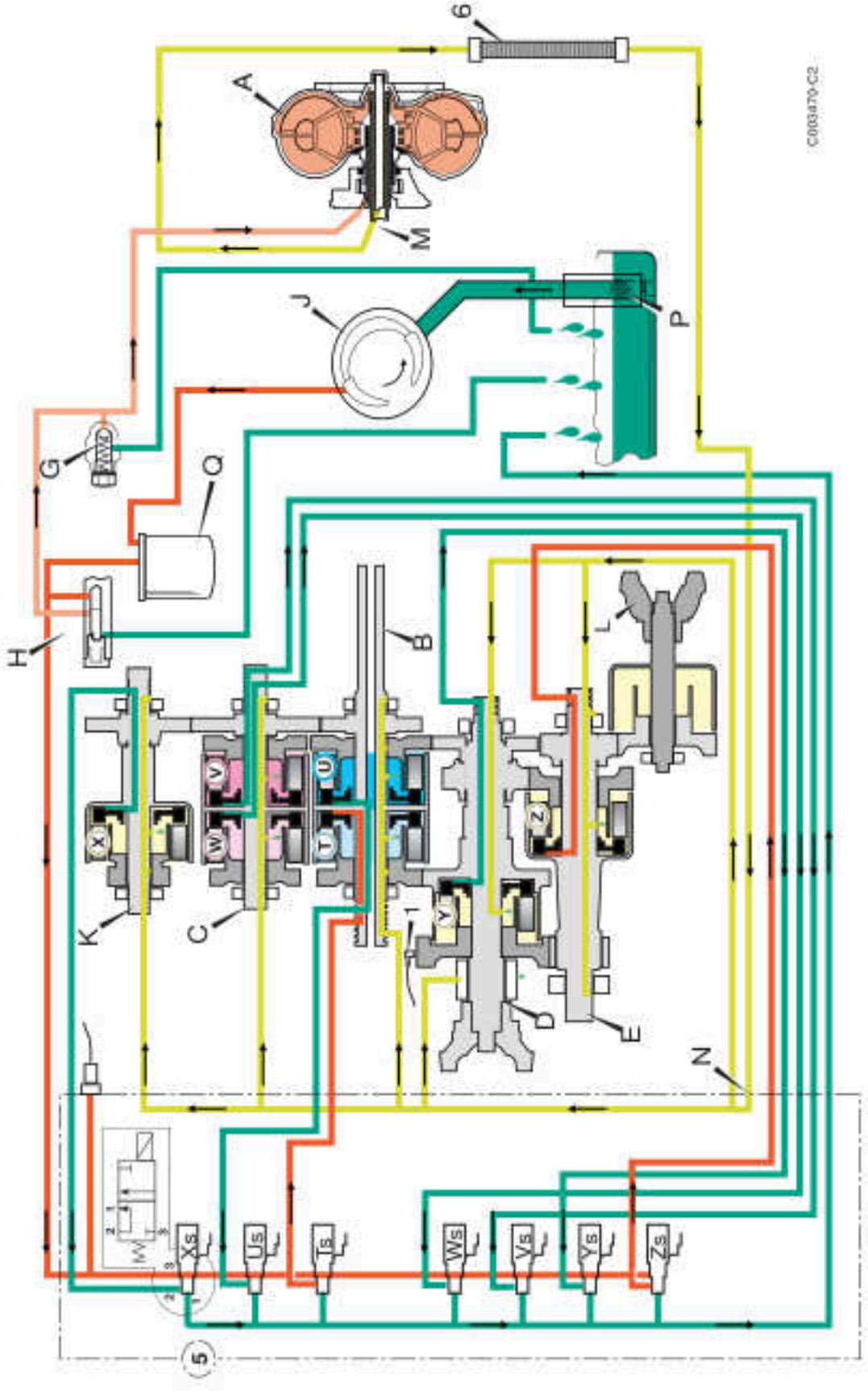


Fig 11. Electrical and Hydraulic Operation

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