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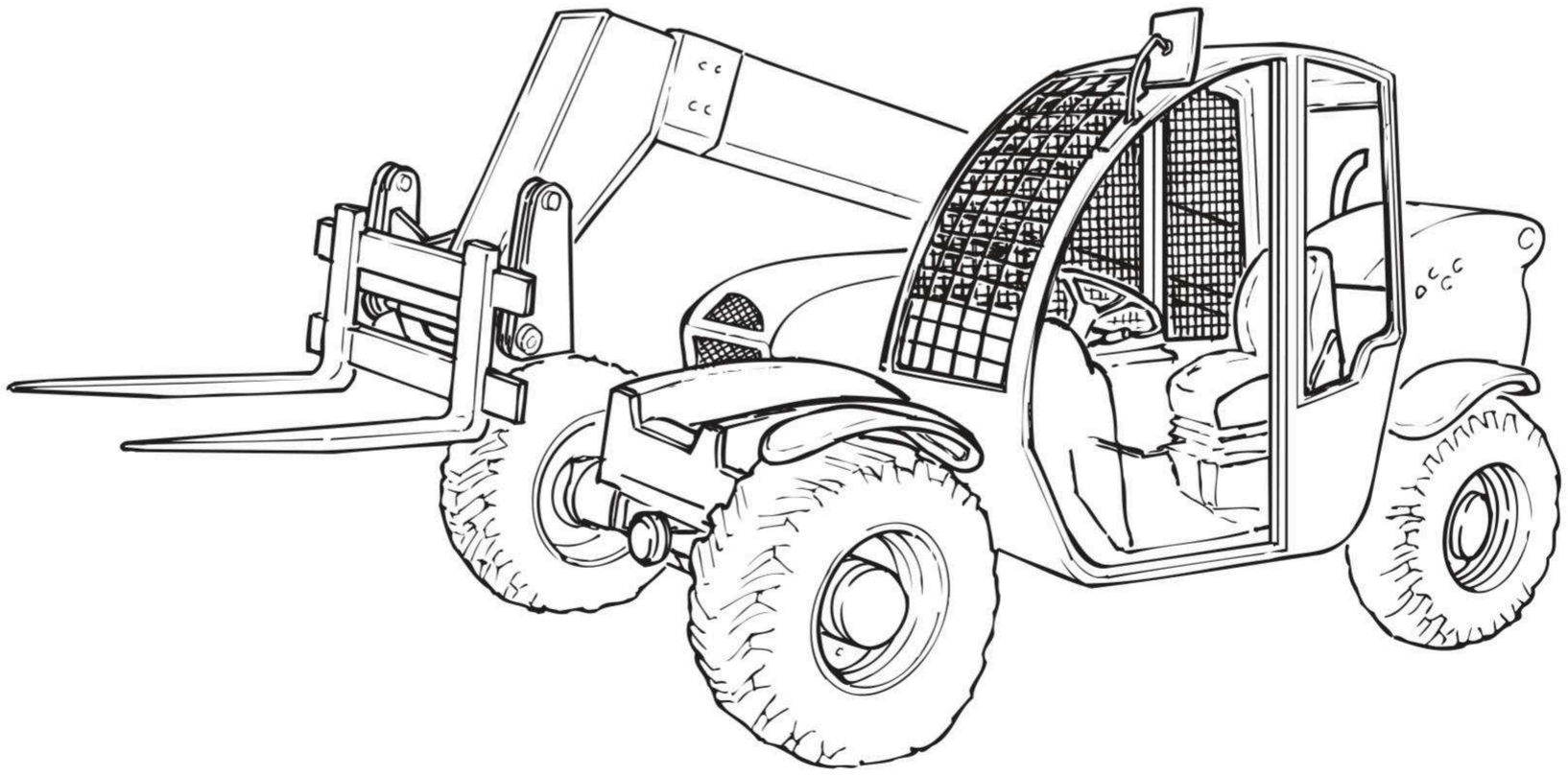
SERVICE MANUAL

Code 57.4403.3200 - 2nd Edition 01/2008

Handler with telescopic boom

GTH 55-19

(from serial n. 17548 to serial n. 17565)
(from serial n. 17822 to serial n. 17825)
(from serial n. 18154 to serial n. 18168)
(from serial n. 18556 to serial n. 18586)



English
Edition

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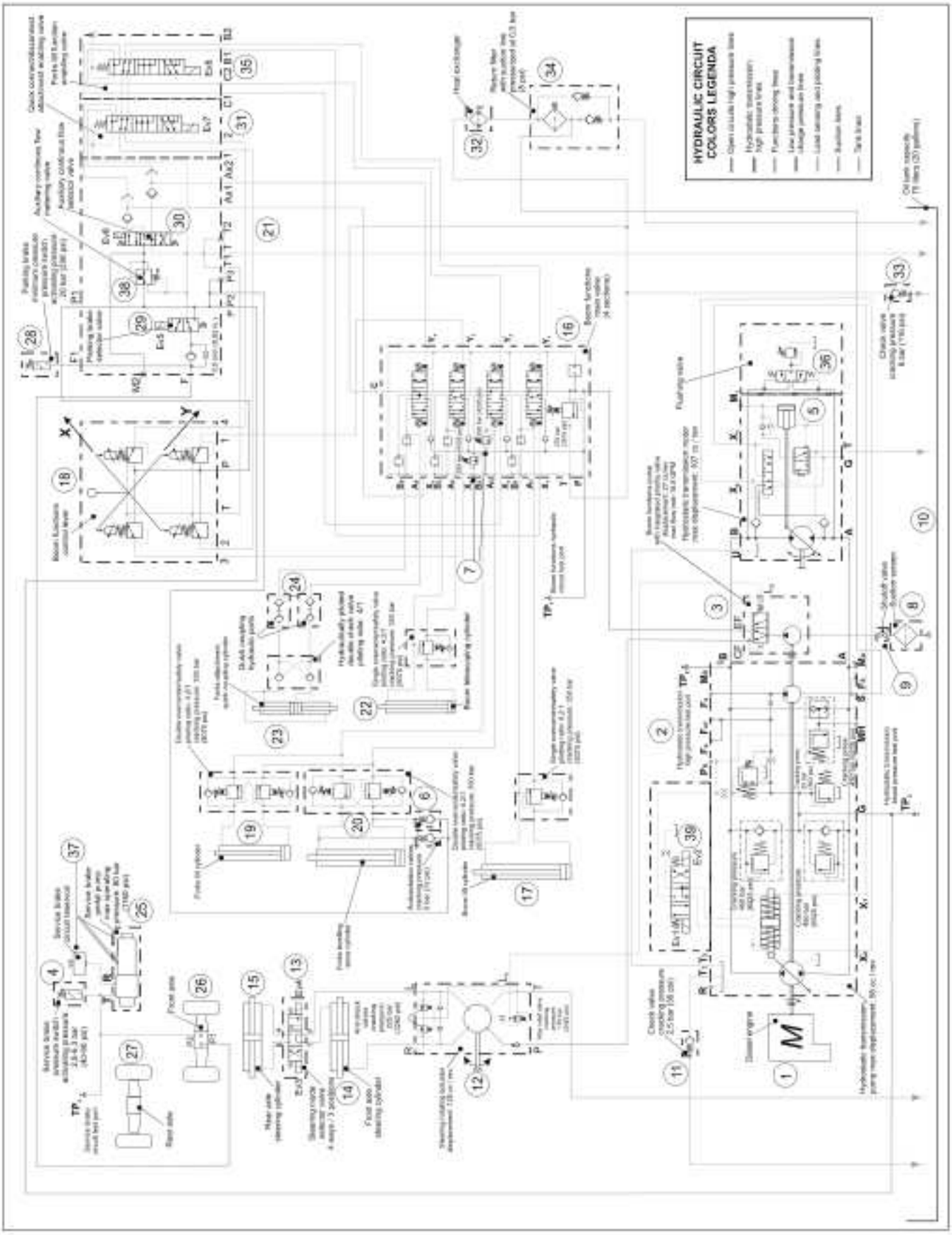
Section 1
SAFETY INFORMATION

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GTH 55-19 hydraulic schematic



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2.7 FORKS (floating type)

			GTH 55-19
•	Dimensions	in	47.2" x 3.9" x 1.6"
•	Weight	lb	9270

2.8 DIESEL ENGINE

			GTH 55-19
•	Make		PERKINS
•	Model/Type		804C-33
•	Displacement	in^3	203
•	Cylinder arrangement		Vertical in-line
•	Combustion System		In-direct injection
•	Max Power Output (@ 2600rpm)	hp	63,0
•	Max Torque Output (@ 1600rpm)	lb-ft	140
•	Rated Power (@ 2600rpm)		116 ft-lb / 58 hp
•	Aspiration		Aspirated
•	Cylinder's number		4

2.9 ELECTRICAL SYSTEM

			GTH 55-19
•	Voltage	V	12
•	Battery	Ah	100

2.10 MACHINE SOUND LEVELS

- Not applicable

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5.1 INTRODUCTION

- *Maintenance inspections shall be completed by a person trained and qualified on the maintenance of this machine.*
- *Immediately tag and remove from service a damaged or malfunctioning machine.*
- *Repair any damage or malfunction before operating machine.*
- *Unless otherwise specified, perform each procedure with the machine in the following configuration:*
  - *machine parked on a flat level surface;*
  - *boom in the stowed position;*
  - *key switch in the OFF position with the key removed.*

Before troubleshooting:

- *Read, understand and obey the safety rules and operating instructions printed in the Operator Manual of the machine.*
- *Be sure that all necessary tools are available and ready for use.*
- *Read each appropriate flow chart thoroughly.*
- *Pay special attention to the following warnings:*

⚠DANGER

Crushing hazard. When testing or replacing any hydraulic component, always support the structure and secure it from movement.

⚠WARNING

Electrocution hazard. Contact with electrically charged circuits may result in death or serious injry. Remove all rings, watches and other jewerly.

⚠WARNING

Spraying hydraulic oil can penetrate and burn skin; loosen hydraulic connections very slowly to allow the oil pressure to dissipate gradually. Do not allow oil to squirt or spray.

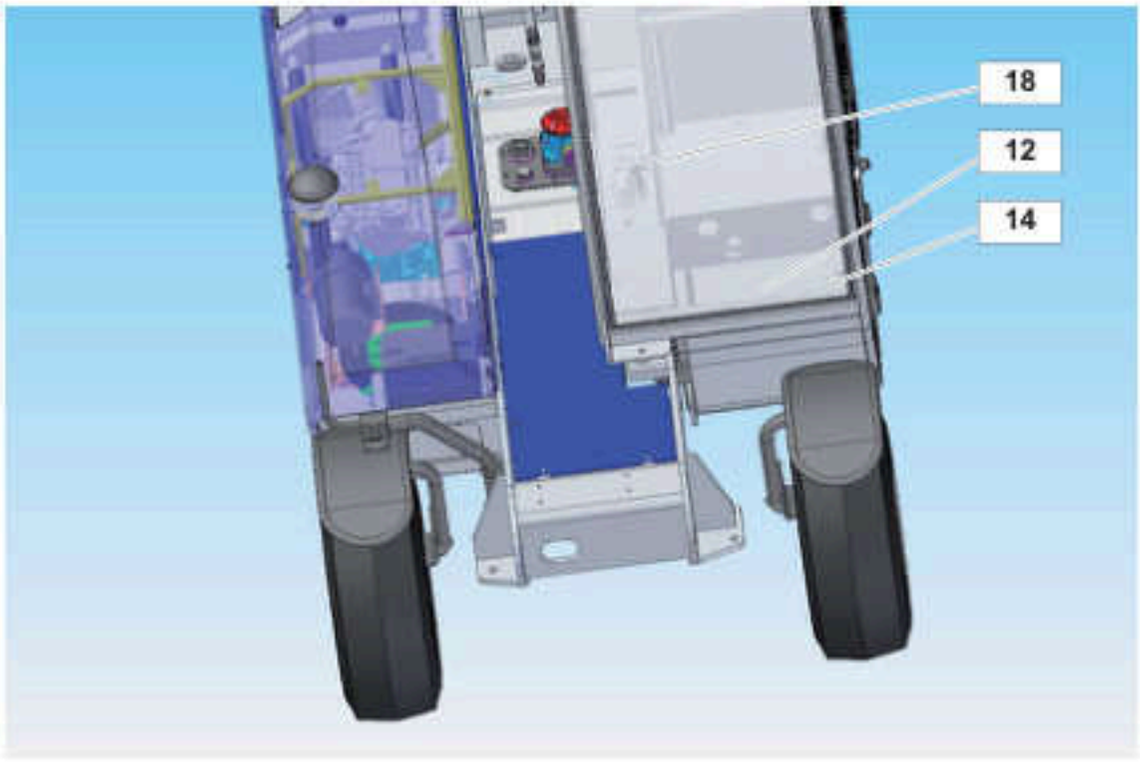
CAUTION

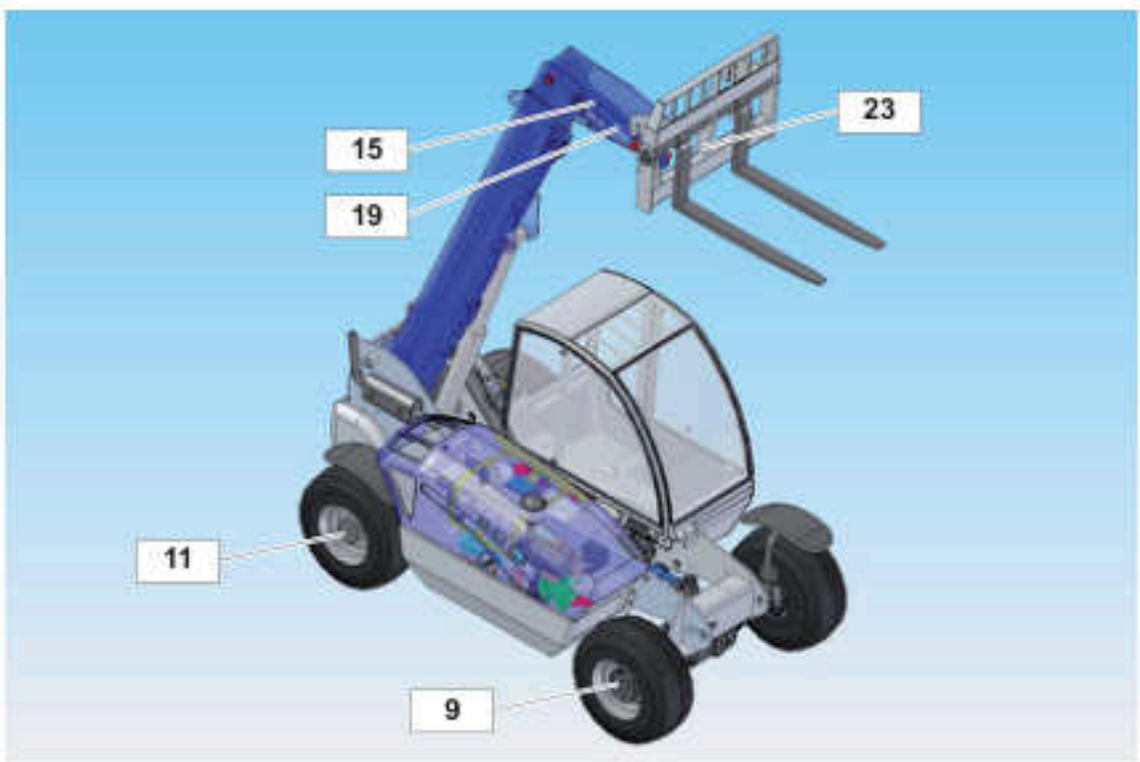
Perform all troubleshooting on a firm level surface.

CAUTION

Two person will be required to safely perform some troubleshooting procedures.

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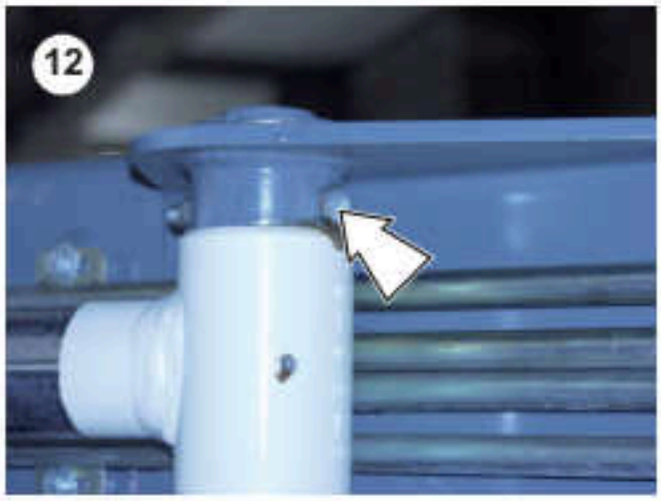




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Operation:	Table:
Cylinder disassembly **Boom raising cylinder**	**GTH5519-001**

12 Remove the screw which fixes the rod pin to the boom using two 19 mm wrenches



13 Knock out and extract the pin using a plug of soft material (aluminium, copper, wood, etc.)

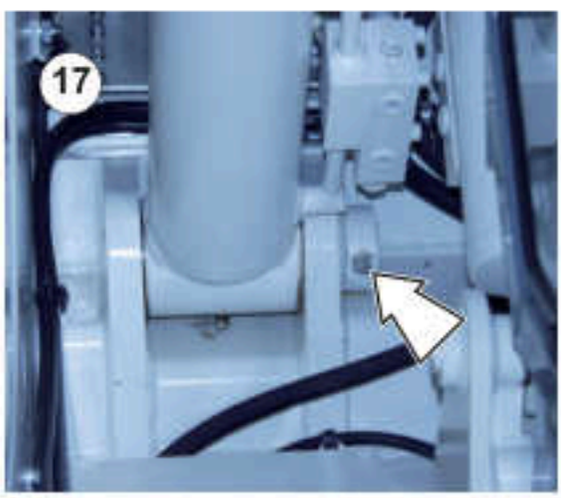
14 Put two wooden plugs, each 100mm high, on the oil cylinder to support the raising cylinder

15 Lower the boom until the cylinder rests on the supporting plugs previously positioned

16 Untie the sling fixing the cylinder to the boom, then raise the boom with the bridge crane to go on working



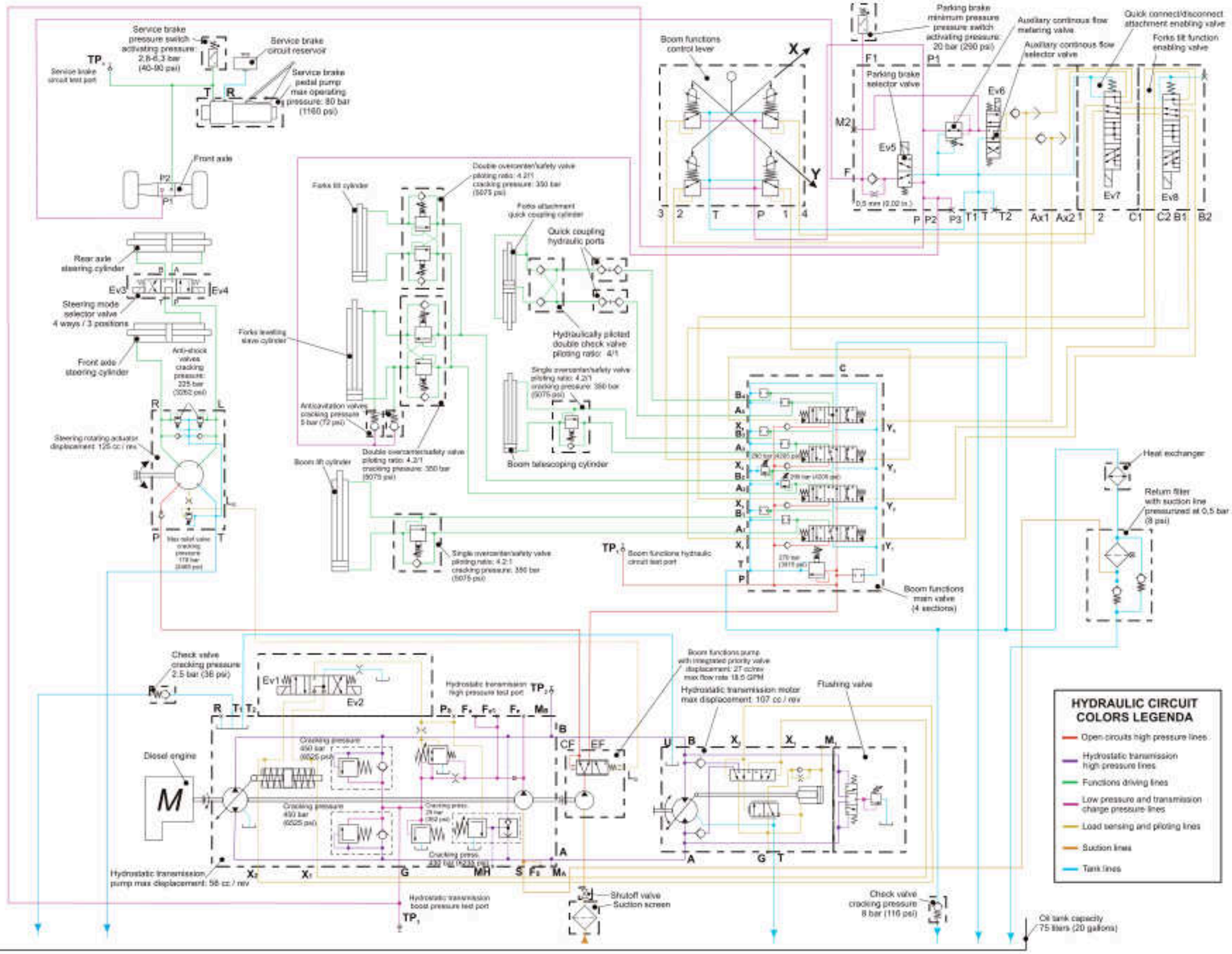
17 Remove the screw which fixes the bottom-side pin of the cylinder using two 19 mm wrenches



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6.2 HYDRAULIC SCHEME

6.2.1 GTH 55-19



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