TEREX®

Service Manual

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TH 19-55

From serial n.: 19925

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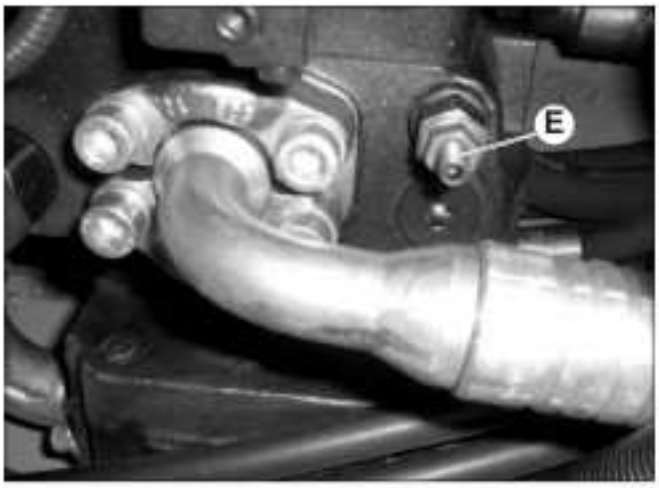
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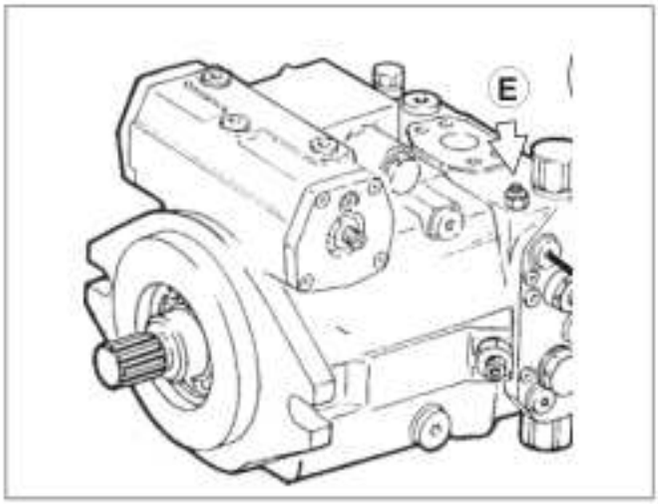
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3.1 CALIBRATION OF THE MAXIMUM PRESSURE

Do this operation with extreme caution. The proper functioning of pump and transmission depends on this calibration.

- Set the forward-neutral-reverse selector to the forward position.
- Run the engine at maximum speed and check the high-pressure value on the manometer **TP2**. If this value is less than 6235 psi, increase the pressure to 6235 psi by means of the pressure cut-off valve **E**.
- Remove the manometers and test the machine.





4. CALIBRATING THE POWER STEERING

- Fit a coupling complete with mini-socket **Z** in the position shown in **annex 1**.
- Fit a 0-3620 psi pressure gauge to the mini-socket **Z**.
- Select the front axle steering mode.
- Move the steering cylinder to stroke end and make sure the value of the power steering **A** is 2465 psi. If the value is less, tighten valve **X**; if the value is greater, loosen the valve.

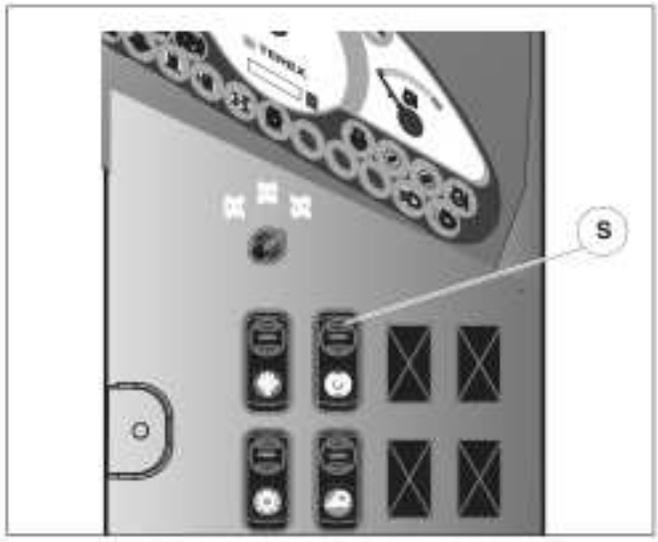
  Note: To gain access to valve **X**, remove the protection cap (see **annex 1**).

5. NEGATIVE BRAKE PRESSURE

- Connect a 0-868 psi manometer to the mini-socket **TP4**.
- Start the engine and unlock the brake by operating the relevant button **S** in the driving place.
- The pressure gauge shall display a value of 362 psi approx. given by the supercharge of the drive pump.

6. SERVICE BRAKE PRESSURE

- Connect a 3626 psi manometer to the mini-socket **TP5**.
- Step down on the brake pump pedal.
- The working pressure is about 1160 psi and is given by the force exerted on the pedal.



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Problems-Causes-Solutions

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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6.4.1 Wiring diagrams - Component description

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PART LEGEND

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B15	Engine oil pressure transducer	12
B19	Back-up horn	44
B40	Fuel level gauge	31
B41	Hydraulic oil temperature switch	25
B43	Parking brake low pressure switch	24
B46	Rear wheels aligned sensor	35
B5A	Hydraulic oil temperature switch	33
B5J	Hydraulic oil filter clogged switch	23
B55	Buzzer	41
B6A	Coolant thermistor	12
E1	work spotlight	54
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E3	Cabin ceiling light	56
E35	work spotlight	45
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S27	Road light switch	41
S28	Forward-reverse switch	23
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Item	Description	Sh
X10	Power air condition compressor plug	13
X61	Steering unit plug	31
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X26	Plug-in Connector 12 way - In-Out relay card	
X27	Plug-in Connector 21 way - In-Out relay card	
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X3	Plug-in Connector 11 way - Relay card	
X34	Plug-in Connector - Stop engine	
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X61.1	Plug-in Connector - Fuel level gauge	
X61.3	Plug-in Connector - Fuel level gauge	
X42.s	Plug-in Connector - Rear right road light	
X46	Plug-in Connector - Rear wheels aligned sensor	
X49	Plug-in Connector - Parking brake solenoid valve	
X5	Plug-in Connector 21 way - In-Out relay card	
X51	Plug-in Connector - Rear wheels steering solenoid valve	
X52	Plug-in Connector - Crab steering solenoid valve	
X53	Plug-in Connector - Front right road light	
X54	Plug-in Connector - Front left road light	
X57	Plug-in Connector - Road light switch	
X58	Plug-in Connector - Forward-reverse switch	
X59	Plug-in Connector - Emergency switch	
X6	Plug-in Connector 12 way - In-Out relay card	
X61a	Plug-in Connector - Steering unit bridge	
X61s	Plug-in Connector - Steering unit	
X7	Plug-in Connector 3 way - In-Out relay card	

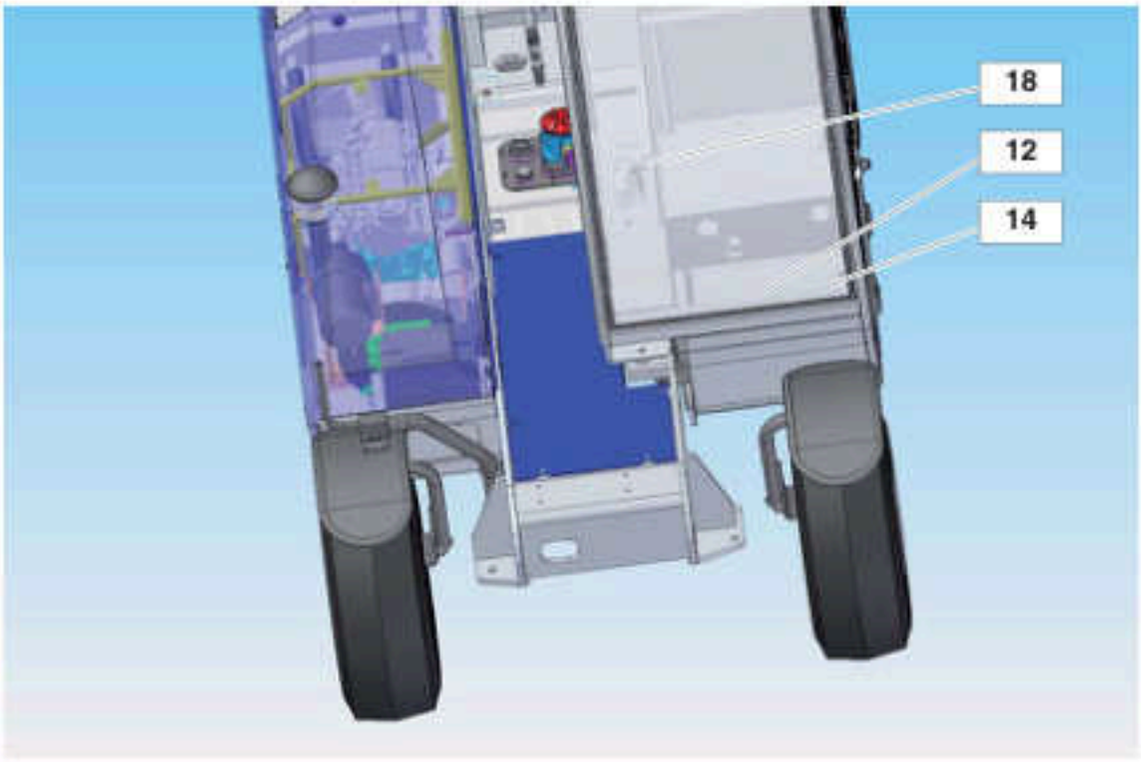
COLOR WIRE LEGEND

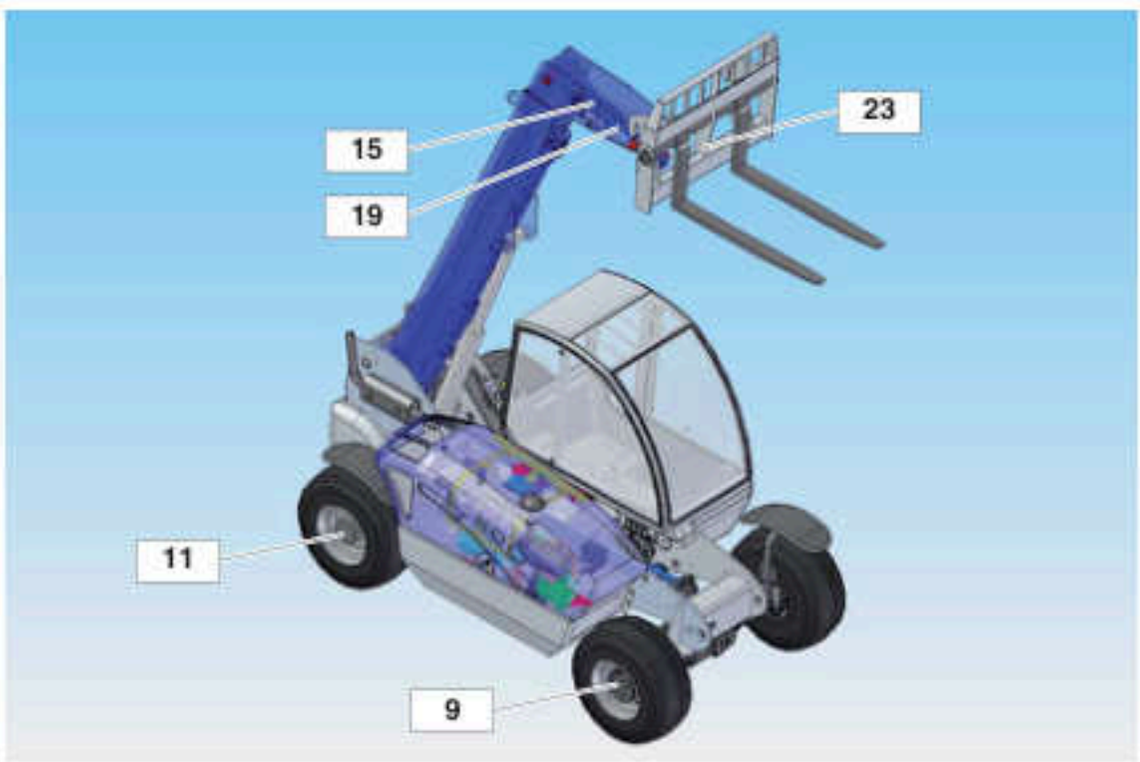
A	LIGHT BLUE
B	WHITE
C	ORANGE
D	YELLOW
H	GREY
L	BLUE
M	BROWN
N	BLACK
R	RED
S	PINK
V	GREEN
Z	PURPLE

REMARK: Two color wires are indicated through a combination of the aforesaid initials as follows:
G-V= YELLOW/GREEN (crosswise colouring)
G-V= YELLOW-GREEN (lengthwise colouring)

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SCHEMES



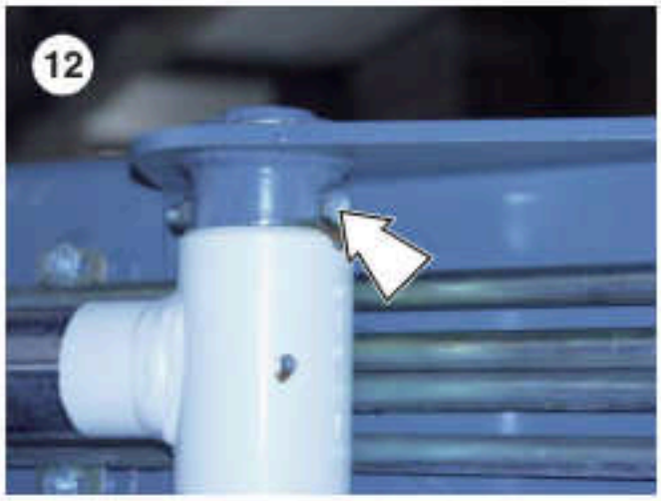


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TABLE 001

Operation: **Cylinder disassembly** **Boom raising cylinder**	Table: **001** **TH 19-55**

12 Remove the screw which fixes the rod pin to the boom using two 0,74 in wrenches



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

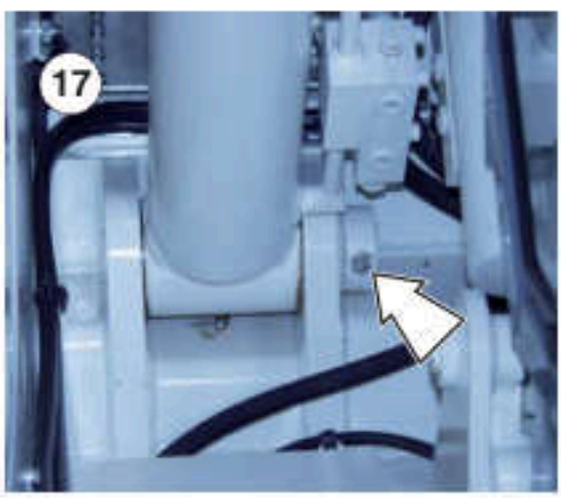
14 Put two wooden plugs, each 3,93 in high, on the oil cylinder to support the raising cylinder

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 0,74 in wrenches



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