A TEREX COMPANY

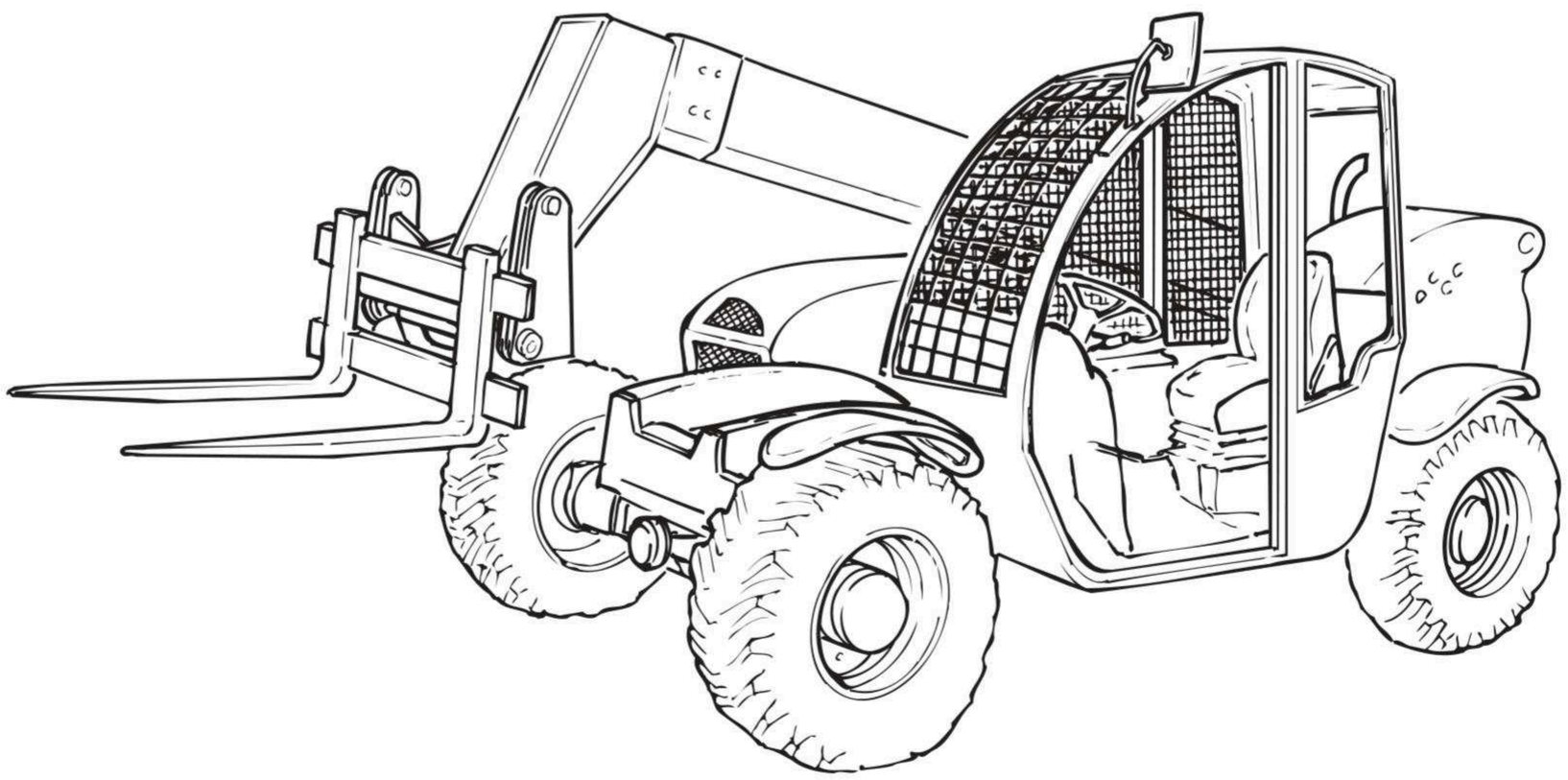
# WORKSHOP MANUAL

*Code 57.4401.2200 - 1st Edition 03/2006*

## *Handler with telescopic boom*

# GTH 66-22 *(From serial n. 11982)*

# GTH 66-22S *(From serial n. 10816)*



**English**

**Edition**

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# Section 1
# SAFETY INFORMATION

## SECTION INDEX


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## 2.7 FORKS (floating type)

| | | | GTH 66-22 • GTH 66-22S |
|---|---|---|---|
| • | Dimensions | in | 5.1"x1.8"x47.2" |
| • | Weight | lb | 165+165 |
| • | Fork holding frame - class | | FEM II A |

## 2.8 DIESEL ENGINE

| | | | GTH 66-22 • GTH 66-22S |
|---|---|---|---|
| • | Make | | DEUTZ AG |
| • | Model/Type | | BF4M 2011 |
| • | Features | | Diesel<br>4 cylinders in line<br>4 strokes<br>direct injection |
| • | Bore x Stroke | in | 3.7" x 4.41" |
| • | Total displacement | cu in | 189.65 |
| • | Power at 2500 rpm (ISO 3046 IFN) | kW | 60 |

## 2.9 ELECTRICAL SYSTEM

| | | | GTH 66-22 • GTH 66-22S |
|---|---|---|---|
| • | Voltage | V | 12 |
| • | Battery | Ah | 100 |

## 2.10 MACHINE SOUND LEVELS

| | | | GTH 66-22 • GTH 66-22S |
|---|---|---|---|
| • | Guaranteed sound power level<br>(in accordance with the Directive 2000/14/CE) | dB | Lwa = - |
| • | Measured sound pressure level<br>(in accordance with the Directive 98/37/CE) | dB | Lpa = - |



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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**

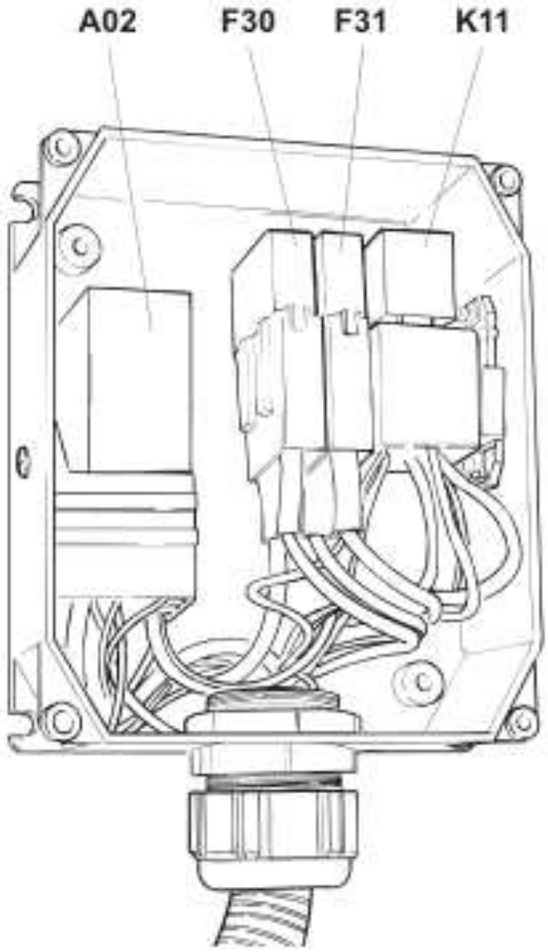
*Two person will be required to safely perform some troubleshooting procedures.*



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## 6.4.11 Engine compartment fuses and relays

| Ref. | Circuit | Amp. |
|---|---|---|
| F30 | Preheating control unit maxifuse | 70 |
| F31 | System protection fuse | 50 |
| A02 | Preheating control unit | |
| K11 | Start relay | |






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## C-15 CHECK THE EFFICIENCY OF THE BLOCK VALVES

The piloted blocking valves allow to held the load in position in case of burst of a flexible hose.

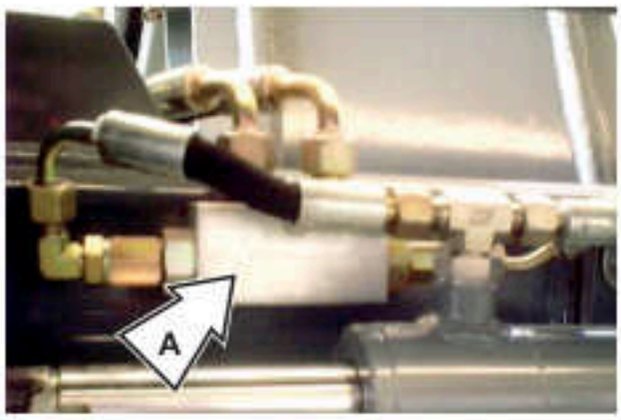
To check the efficiency of a valve, proceed as follows:

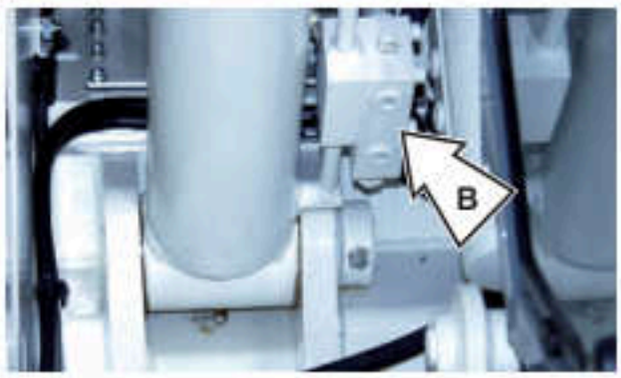
- Load a weight near the maximum payload (3500 kg roughly) onto the boom.
- Raise the load some centimetres above the ground (max 10 cm). To check the valve on the telescope extension cylinder move the boom to maximum height and extend it some centimetres.
- Loosen the oil hoses to the cylinder of which you are checking the valve with caution.
- To check the efficiency of the block valves of the outriggers, lower them to the ground and unload the weight on the tyres. Loosen the cylinder hoses to check the efficiency of the valve.

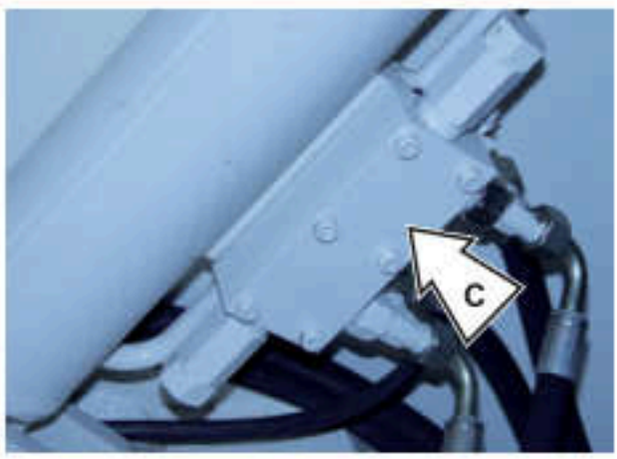
During the check, the load shall remain blocked in position.
Should that not be the case, the valve must be replaced. Contact GENIE Technical Service.

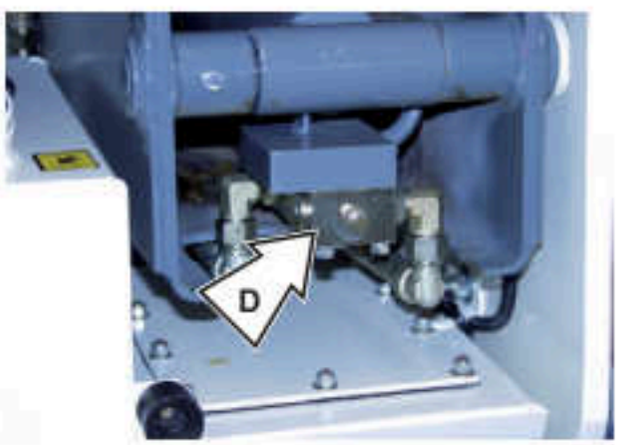
**NOTICE**

***Place a container of suitable size under the plug.***






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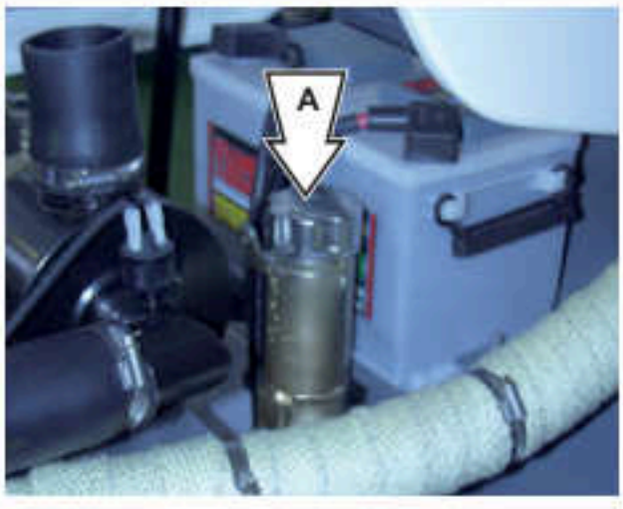
## A-10 CHECK THE HYDRAULIC OIL LEVEL IN THE TANK

**⚠DANGER**

***Fine jets of hydraulic oil under pressure can penetrate the skin. Do not use your fingers, but a piece of cardboard to detect oil leaks.***

Check the hydraulic oil level (visually) through the special level **B** fitted into the tank.

When necessary, add new oil through filler **A**.

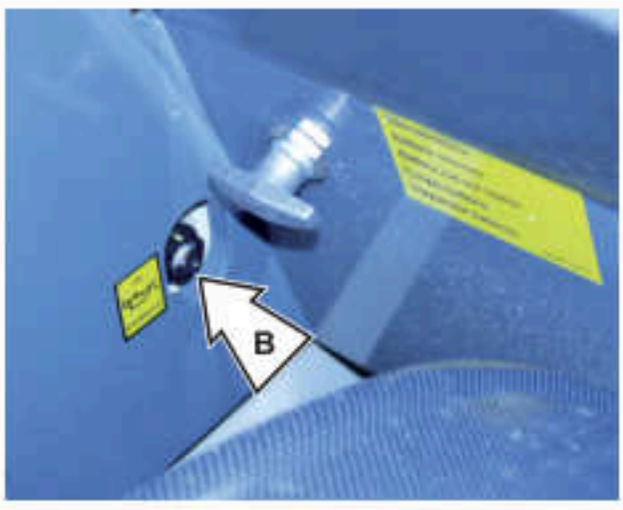



**⚠WARNING**

***Check the oil level with the machine in the travel position, tha is boom lowered and telescopes fully in.***

**NOTICE**

***The handling and disposing of used oils can be ruled by local or national regulations. Address to authorised centres.***

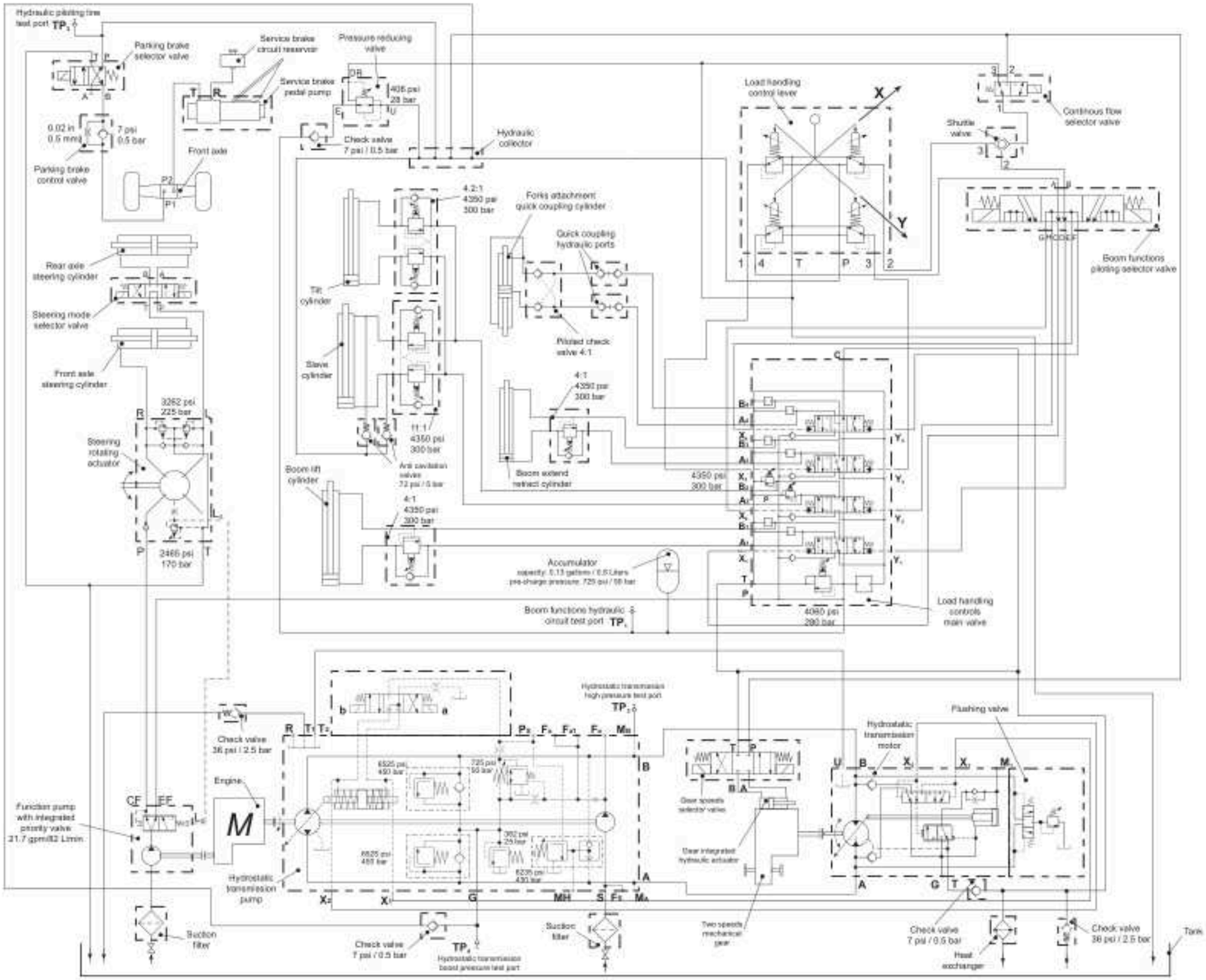





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## 6.2 HYDRAULIC SCHEME

### 6.2.1 GTH 66-22 • 66-22S






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