A TEREX COMPANY

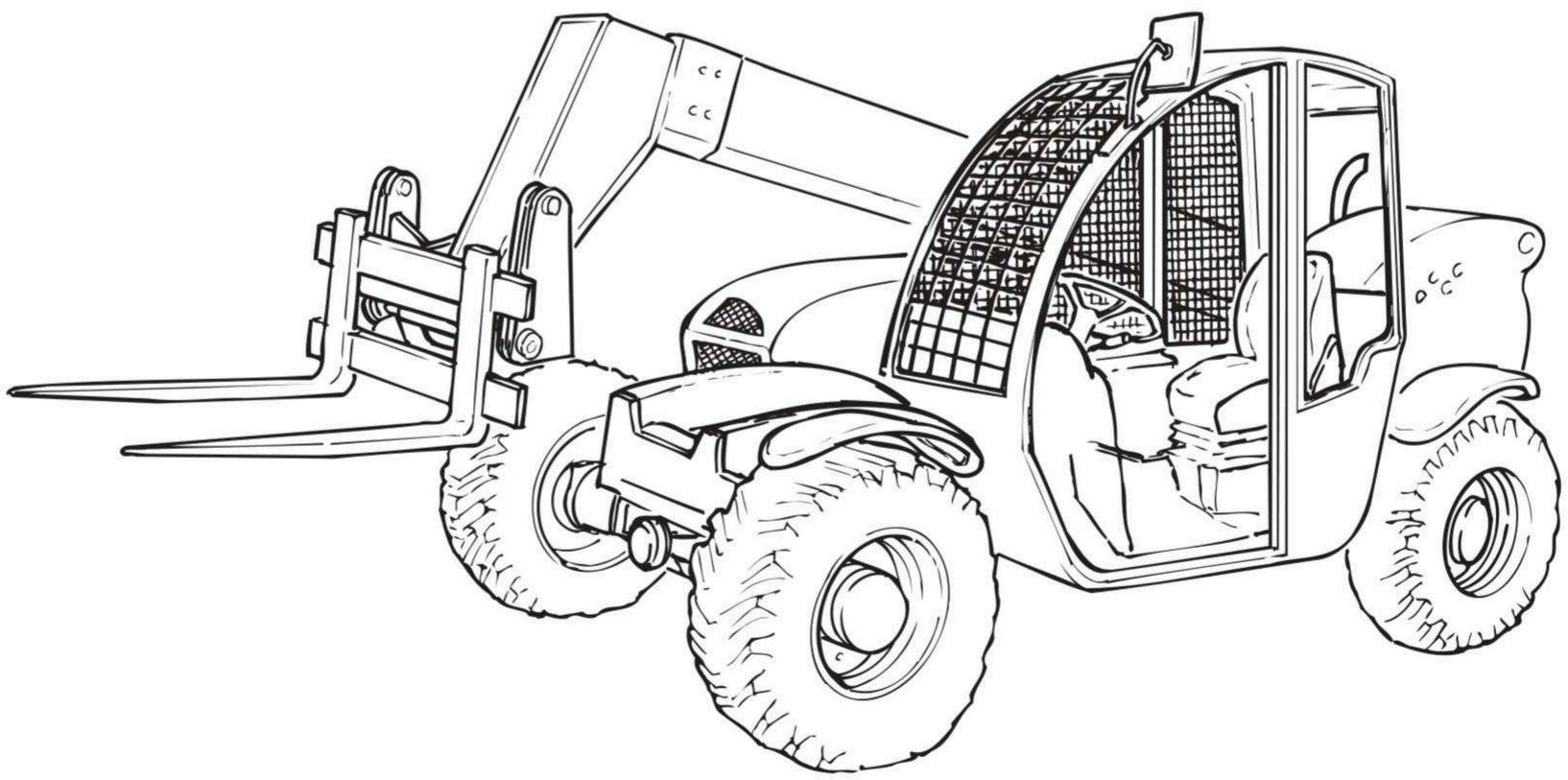
WORKSHOP MANUAL

Code 57.4401.2200 - 2nd Edition 05/2007

Handler with telescopic boom

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

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



English

Edition

MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manual | Publication 57.4401.2200

Order the manual at mid-west-tech.com >

Section 1
SAFETY INFORMATION

SECTION INDEX

1.1	Safety rules	page	2
1.1-1	Personal safety		2
1.1-2	Workplace safety		2
1.2	General remarks		4
1.3	Servicemen's requisites		4
1.3-1	Personal protective equipment		5
1.4	General safety precautions		5
1.4-1	Working areas		5
1.4-2	Precautions during work		5

MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manu... Order the manual at mid-west-tech.com >

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 4 cylinders in line 4 strokes 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 (in accordance with the Directive 2000/14/CE)	dB	Lwa = -
•	Measured sound pressure level (in accordance with the Directive 98/37/CE)	dB	Lpa = -

MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manu... Order the manual at mid-west-tech.com >

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.

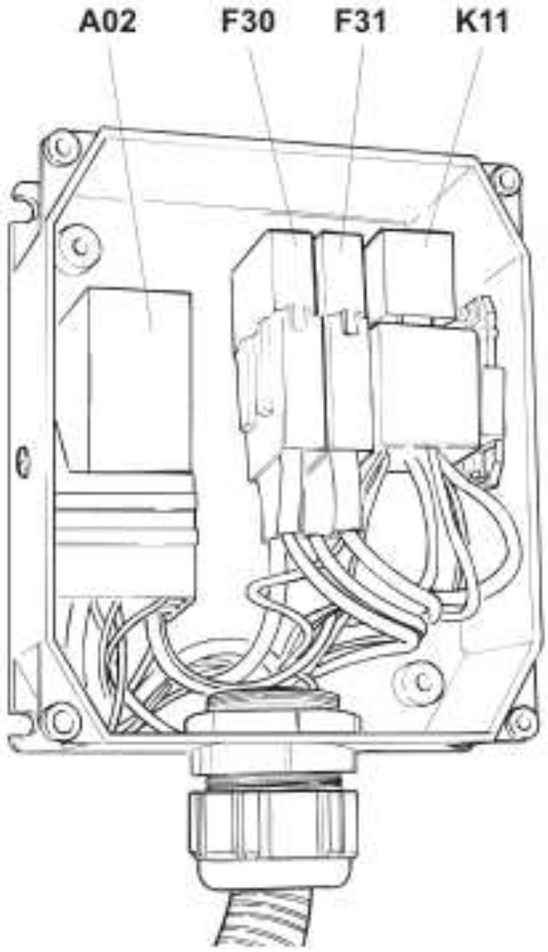
CAUTION

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

MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manu... Order the manual at mid-west-tech.com >

6.4.5 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	



MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manu... Order the manual at mid-west-tech.com >

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.

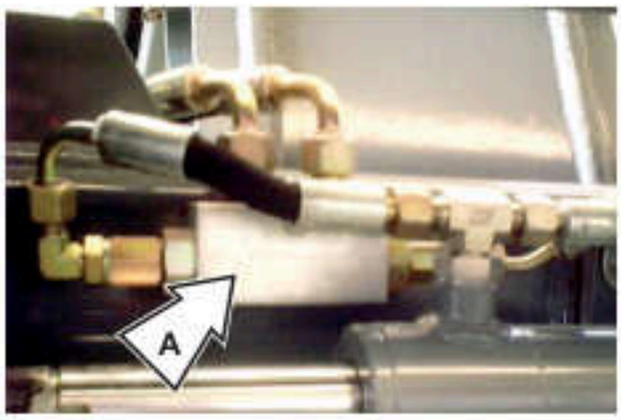
To check the efficiency of a valve, proceed as follows:

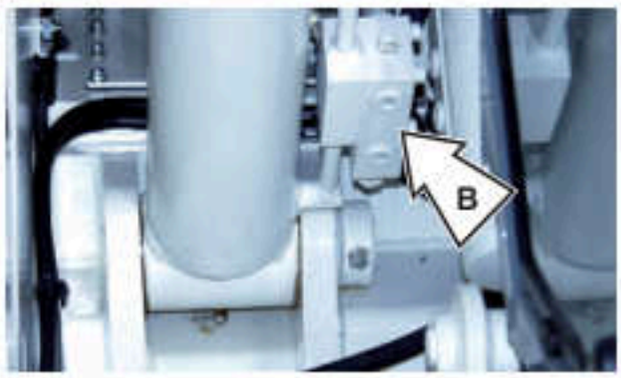
- Load a weight near the maximum payload (3500 kg roughly) onto the boom.
- Raise the load some centimetres above the ground (max 10 cm). To check the valve on the telescope extension cylinder move the boom to maximum height and extend it some centimetres.
- Loosen the oil hoses to the cylinder of which 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.

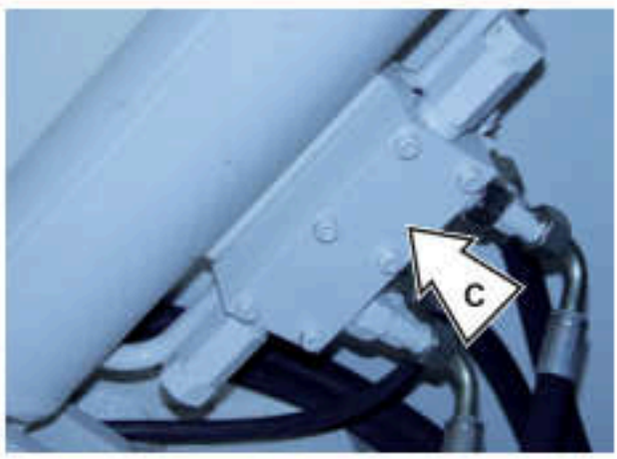
During the check, the load shall remain blocked in position.
Should that not be the case, the valve must be replaced. Contact GENIE Technical Service.

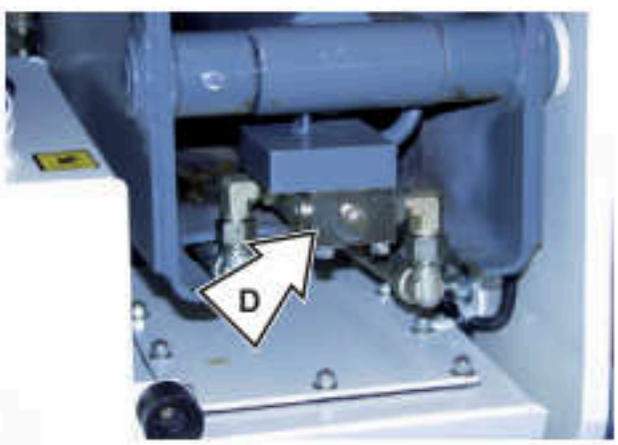
NOTICE

Place a container of suitable size under the plug.









MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manu... Order the manual at mid-west-tech.com >

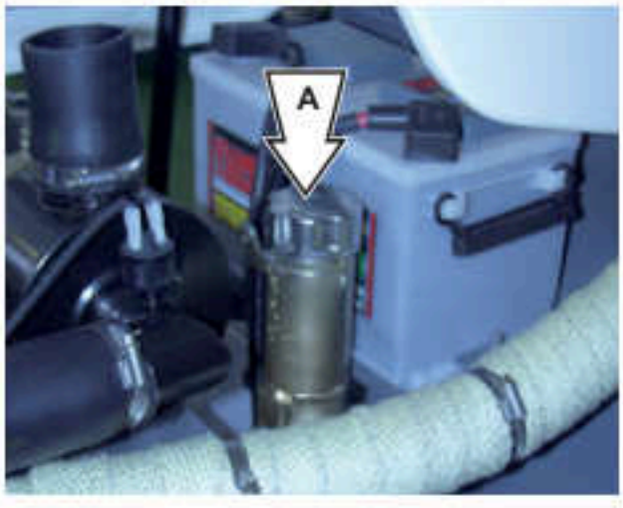
A-10 CHECK THE HYDRAULIC OIL LEVEL IN THE TANK

⚠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**.

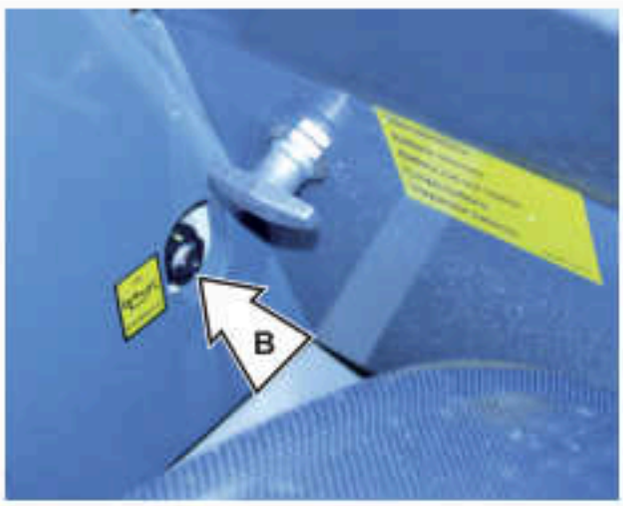


⚠WARNING

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

NOTICE

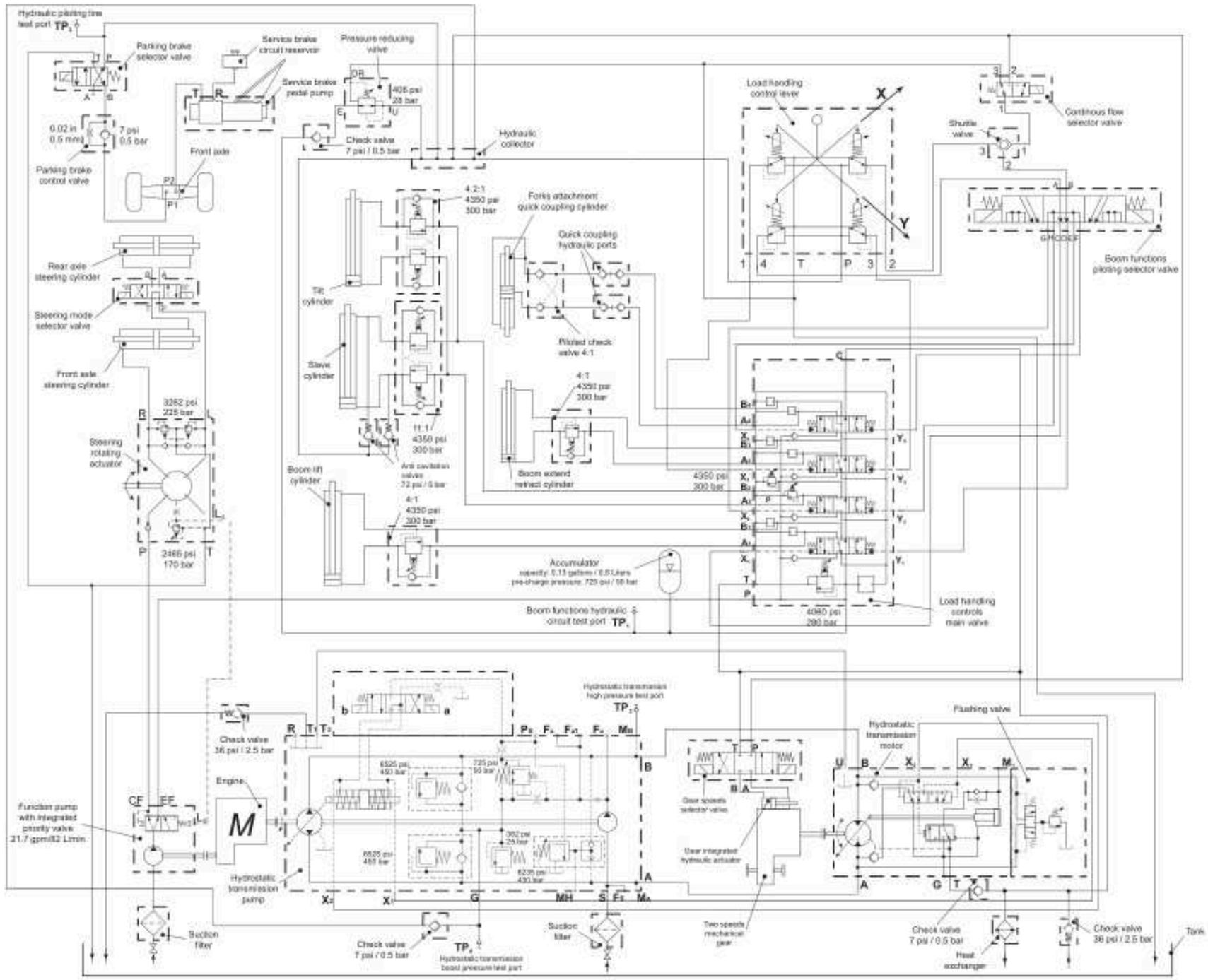
The handling and disposing of used oils can be ruled by local or national regulations. Address to authorised centres.



MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manu... Order the manual at mid-west-tech.com >

6.2 HYDRAULIC SCHEME

6.2.1 GTH 66-22 • 66-22S



MidWestTech | Terex Genie GTH 66-22, GTH 66-22S Telescopic Forklift Service Manual | Publication 57.4401.2200
Order the manual at mid-west-tech.com >