TEREXLIFT

TEREXLIFT

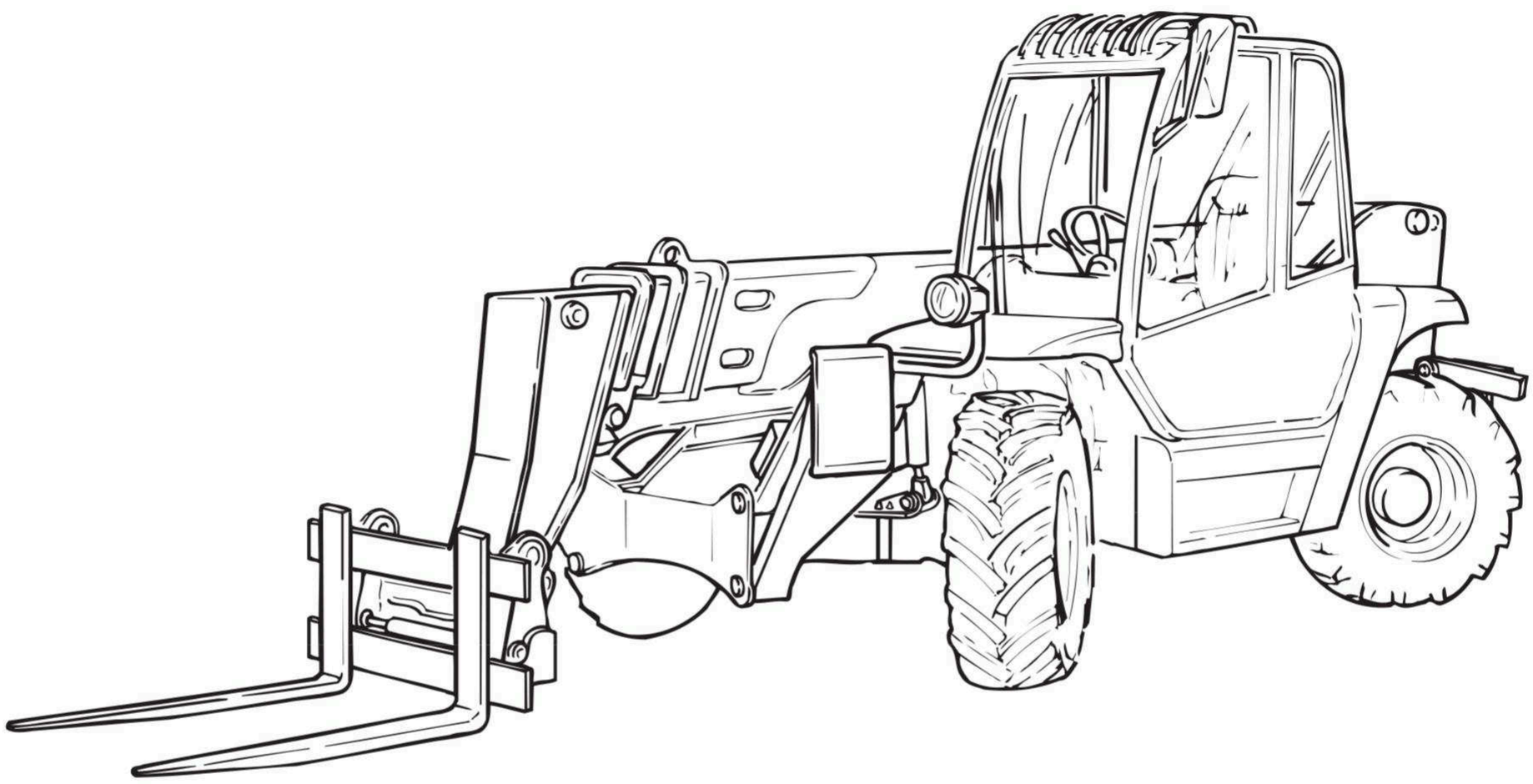
WORKSHOP MANUAL

Code 57.4400.5200 - 1st Edition 04/2003

Handler with telescopic boom

TELELIFT 3713 *Elite*

TELELIFT 3517 - TELELIFT 4010



English

Edition

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Section A
GENERAL INFORMATION

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A.18 REFILLING AND PRODUCT SPECIFICATIONS

Part	*Product*	*Telelift 3713 Elite Telelift 3517 Capacity (litres)*	*Telelift 4010 Capacity (litres)*
Diesel engine	Shell Myrina D SAE 15W-40	11,5	11,5
Engine cooling system	Caltex Polar Antifreeze (ASTM D3306-74)	15	15
Fuel tank	Diesel fuel	135	135
Oil tank	Shell Tellus T46 DENISON HF-1	150	150
Gearbox	Shell Super Gear 90 LS SAE 90W	1,5	1,5
Differential gears	Shell Super Gear 90 LS SAE 90W	8,7	8,7
Wheel reduction gears	Shell Super Gear 90 LS SAE 90W	0,75	0,75

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Operation:	Wiring diagram 20/25 - Telelift 3013 (**up to serial no. 7184**)	Table: **C.04.01.20**

MS-A		**Cable harness**
1	R	Electronic power supply
2	N	Electronic earth
3	S	Thermostarter relay
4	C	Ignition relay
5	M	Fuel solenoid valve relay
6	R	Electronic power supply
7	N	Electronic earth
8	R	Electrical system power supply relay
9	H	Alternator

MS-B		**Remote ignition switch**
1	10	Changeover switch common
2	12	Ignition
3		N/C
4	11	Dashboard
5		N/C

MS-C		**Power supply**
1	RV	Warning lights power supply
2	ZB	Seat switch power supply
3	R	Line B power supply
4	R	Line B power supply
5	Z	Line A power supply
6	N	Earth
7	R	Line B power supply

MS-D		**Proximity switches**
1	AG	Parking brake proximity switch
2		N/C
3		Low boom proximity switch
4		[Reserved]
5	BV	Sensors power supply
6		N/C
7	BR	Right outrigger proximity switch
8	BR	Left outrigger proximity switch
9	BV	Sensors power supply

MS-E		**Cable harness**
1		[Reserved]
2		[Reserved]
3	B	Auxiliary relay coil
4	BV	Seat switch input
5	BA	Low outriggers output
6		[Reserved]
7		[Reserved]
8		[Reserved]
9	C	Speed stop output

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Trouble	Cause	Solution
Abrupt braking	• Wrong pressure calibration	• Reduce the pressure turning the adjusting screw under the pedal while checking the pressure on the gauge
Low braking action	• Wrong pressure calibration	• Reduce the pressure turning the adjusting screw under the pedal while checking the pressure on the gauge. Don't exceed the admissible brake pressures
Delayed brake application and release	• Low brake feed velocity and discharge • High viscosity of the hydraulic fluid	• Check that the diameter of the brake system tubes is not too small in relation to the length and the oil flow • Drain off the circuit and add fluid with an adequate viscosity
Inconstant brake pressure	• Minimum pressure of the accumulators less than the braking pressure	• Check that the accumulators' pressure calibration is correct. If necessary, turn the adjusting screw on the cylindrical end of the accumulator charge valve
Continuous recharge of the accumulators	• Accumulator's nitrogen precharge too low or too high • Big capacity of the brakes in relation to the accumulators' volume	• Drain off the oil from the accumulators and check the pressure of the nitrogen with the special instrument, then recharge at the correct pressure • Re-dimension the accumulators and/or check the adjustment of the brakes
Boost pump always at pressure	• Pump defective • Valve dirty	• Check and replace the pump if necessary • Check the valve thoroughly: correct sliding of the parts, integrity of the seal housing and couplings

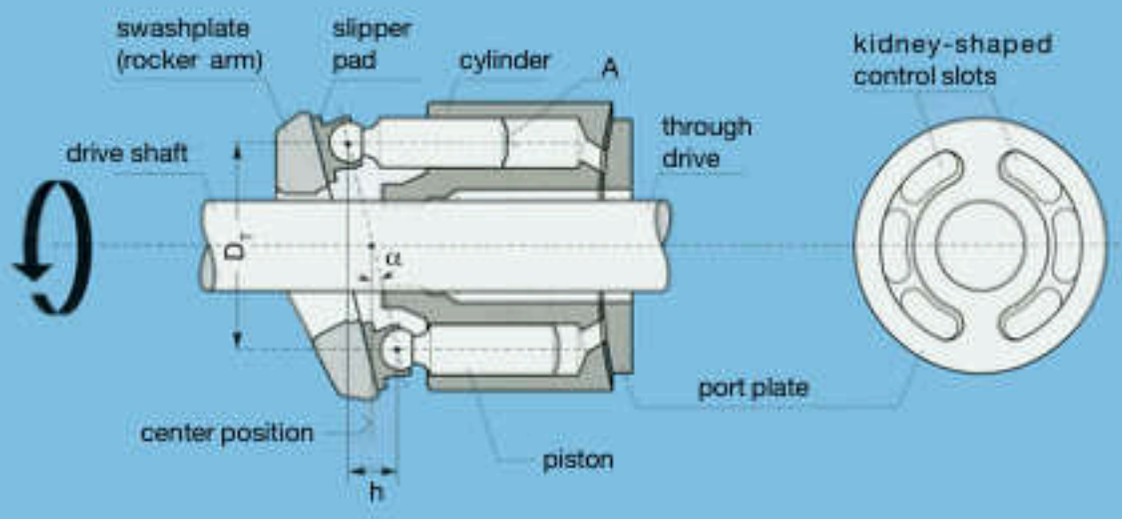
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2.2 Swashplate



Example:
Variable Displacement Pump with electro-hydraulic control, speed-related closed loop control and built-on auxiliary pump

Schematic Diagram of a Swashplate Unit (with pistons parallel to axis)
with fixed or variable swivel angle α



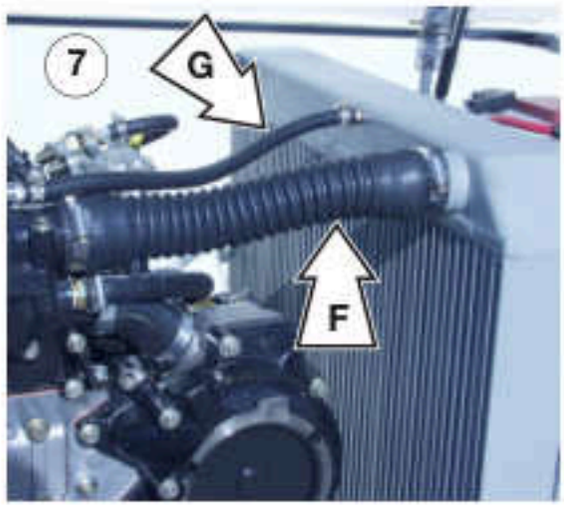
h = piston stroke
A = piston area
D_T = pitch diameter when α=0
α = swivel angle (e.g. 20°)
V_g = geom.displacement [cm³/rev.]

x = number of pistons (e.g. 9)
h = $D_T \bullet \tan \alpha$
V_g = $x \bullet A \bullet h$
V_g = $x \bullet A \bullet D_T \bullet \tan\alpha$

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Procedure: Dismantling the water/oil cooler	Table: T-022

7 With a screwdriver, remove the clamp and the small tank filling tube **G**.



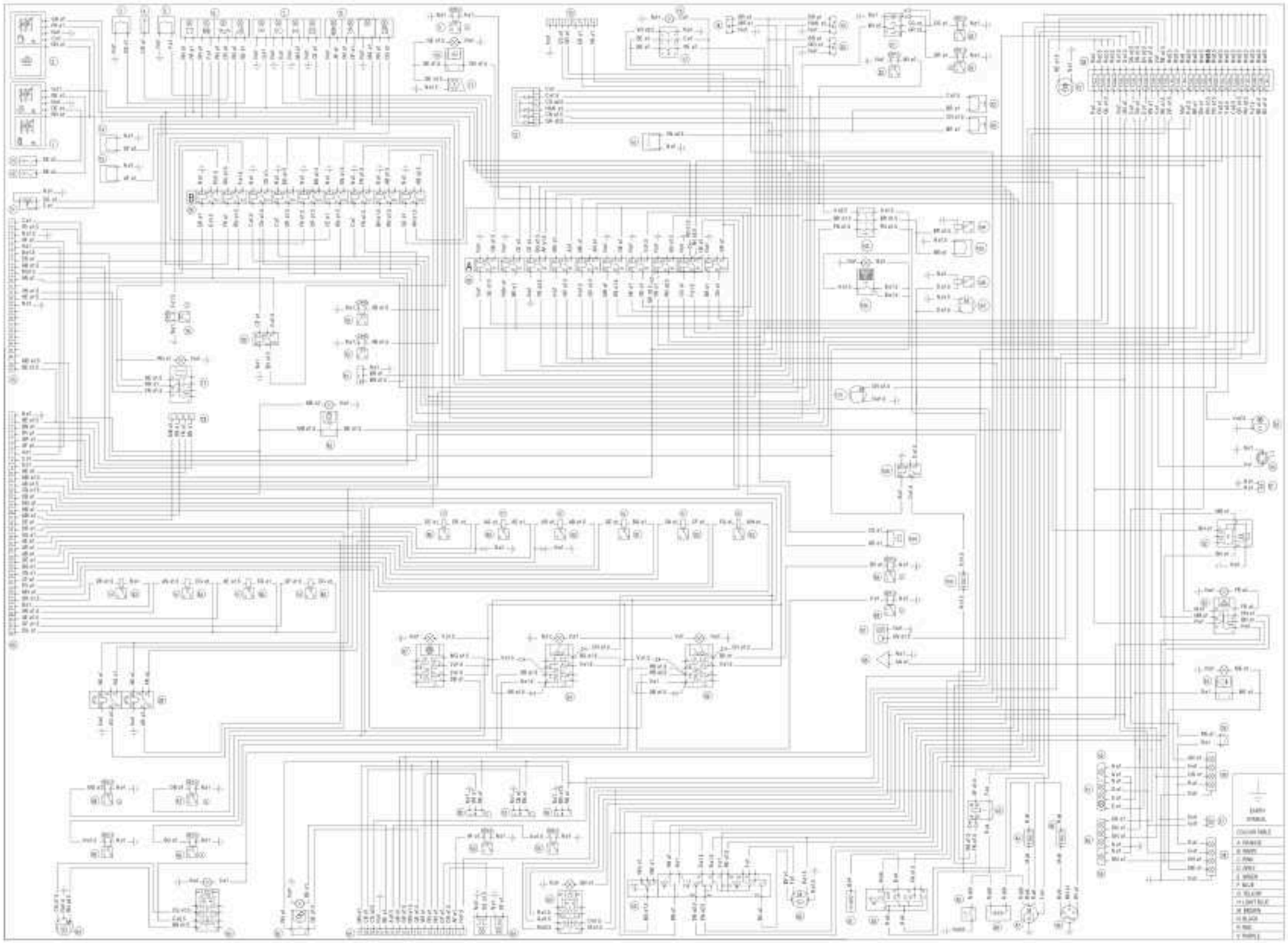
8 Secure the cooler with a textile bridle connected to the bridge crane as shown. Slightly pull the bridle.





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Operation:	Table:
Wiring diagram - Telelift 3013 **(from serial no. 9408)** - Telelift 3517 **(from serial no. 9363)**	**C.05.04.01**



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