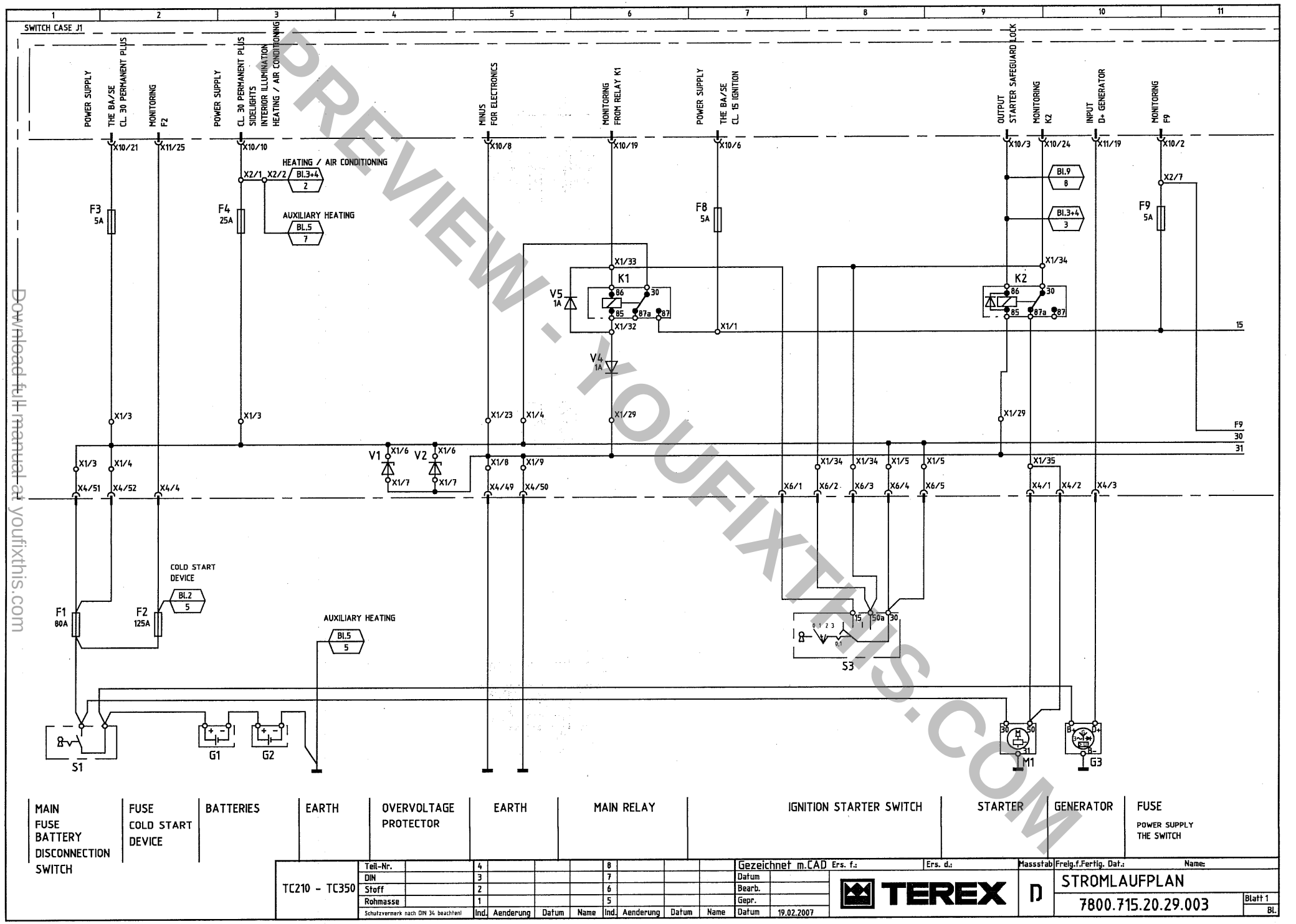
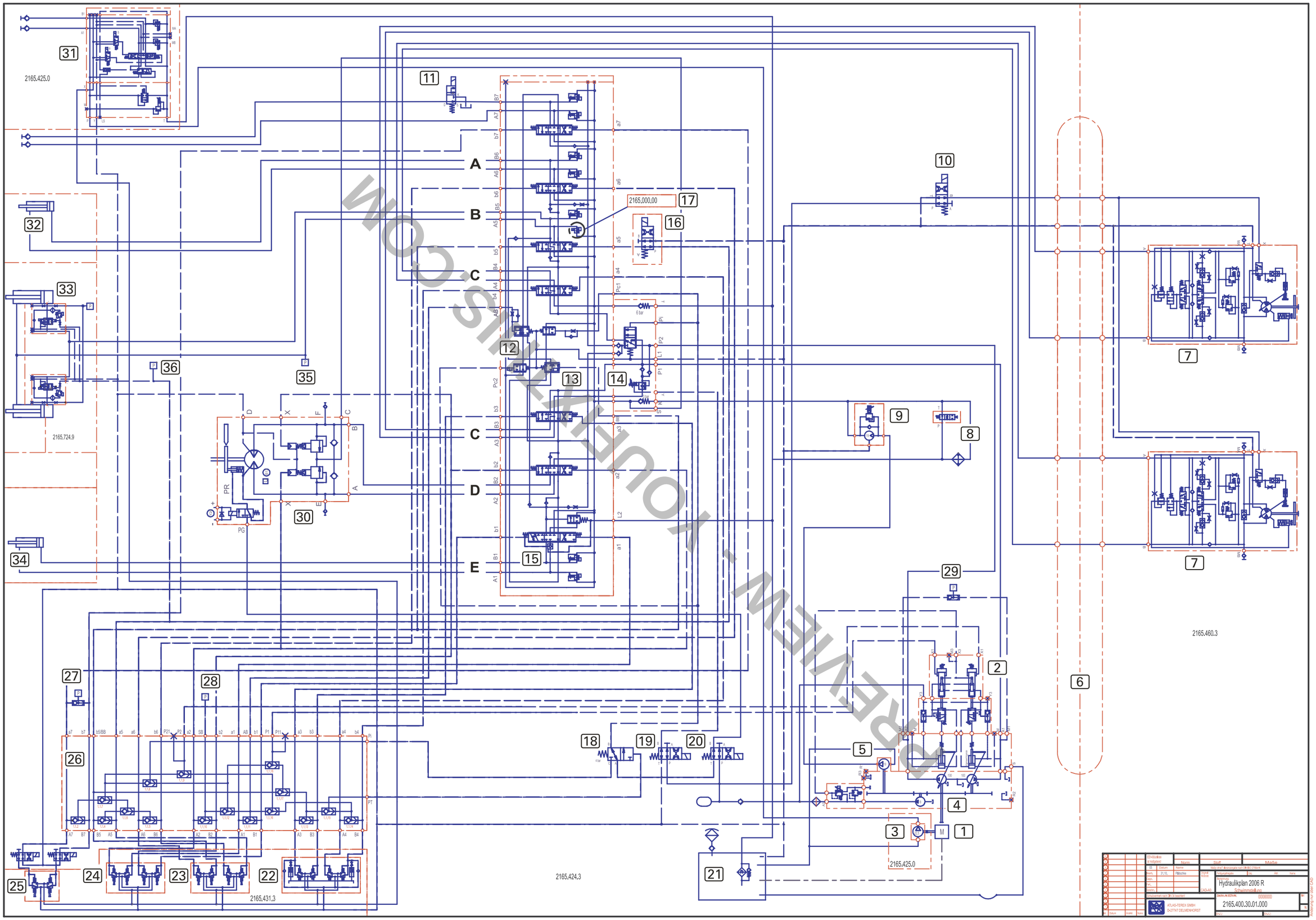


PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com



PREVIEW - Source: WOC's SHEKHOX
Download full manual at youfixthis.com

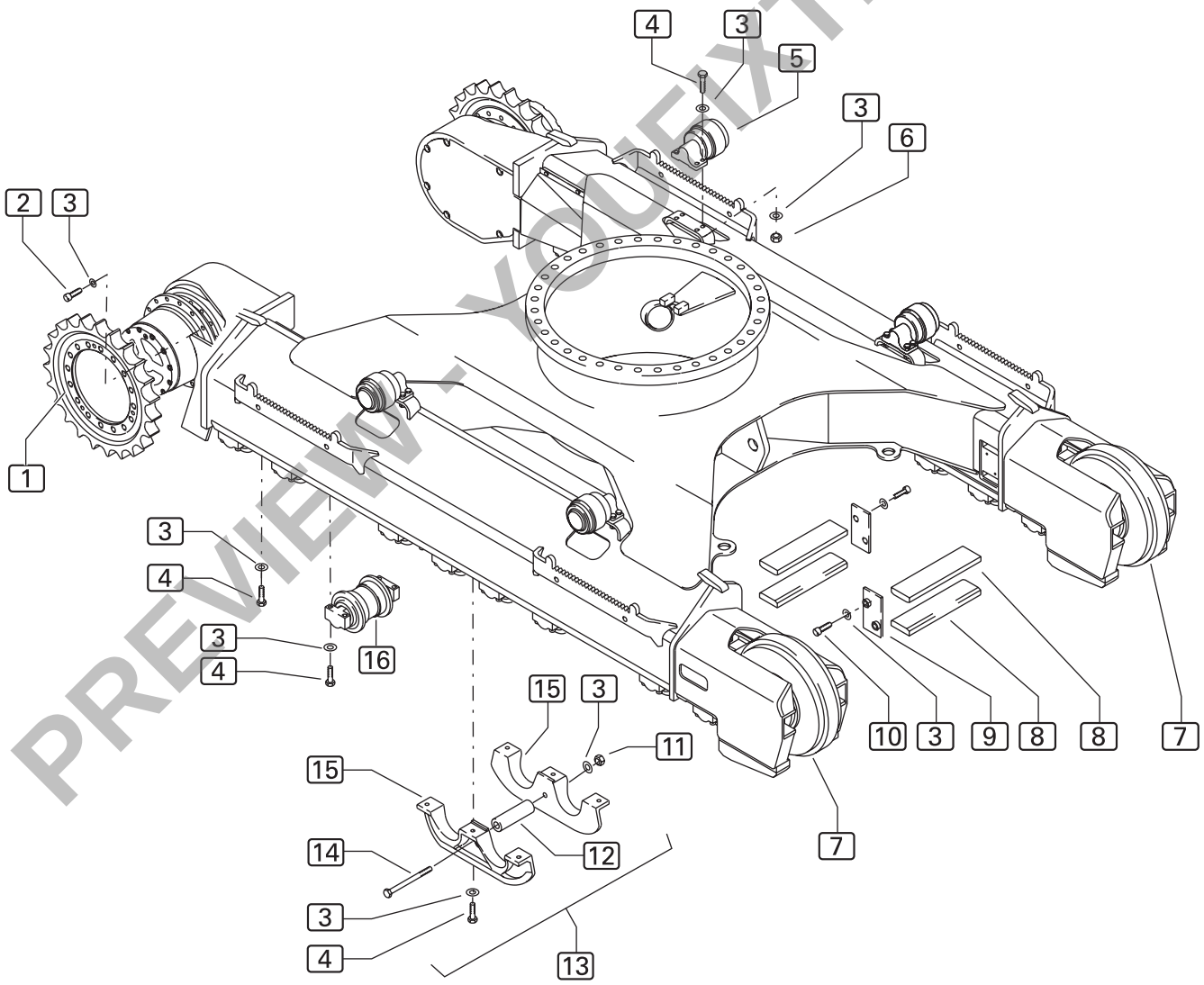
3 Traveling mechanism

3.5 Traveling mechanism component assemblies

3.5.1 Overview of component assembly Undercarriage and Drive Units

Fig. 3.01

1 Crawler gear rim
2 Socket head cap screw (hexagon socket)
3 Shim A3C
4 Hexagon socket screw A3C
5 Support roller
6 Hexagon nut
7 Guide wheel unit
8 Locking bar
9 Cover plate
10 Socket head cap screw with hexagon socket ISKT A3C
11 Hexagon nut, A3C
12 Spacer pipe
13 Chain guide B4HD
14 Hexagon socket screw A3C
15 Side panel, chain guide
16 Running roller D4



3.01

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3 Traveling mechanism

3.2 Technical data

Drive unit total weight	approx. 480 kg
Guide wheel and hydraulic tension jack	approx. 130 kg

3.3 Special tools and consumables

Grease for hydraulic tension jacklithium base grease NLGI class 2 or 3	
Guide wheel lubrication oil	SAE 90
Lubrication oil filling volume	0.3 l

3.4 Tightening moments

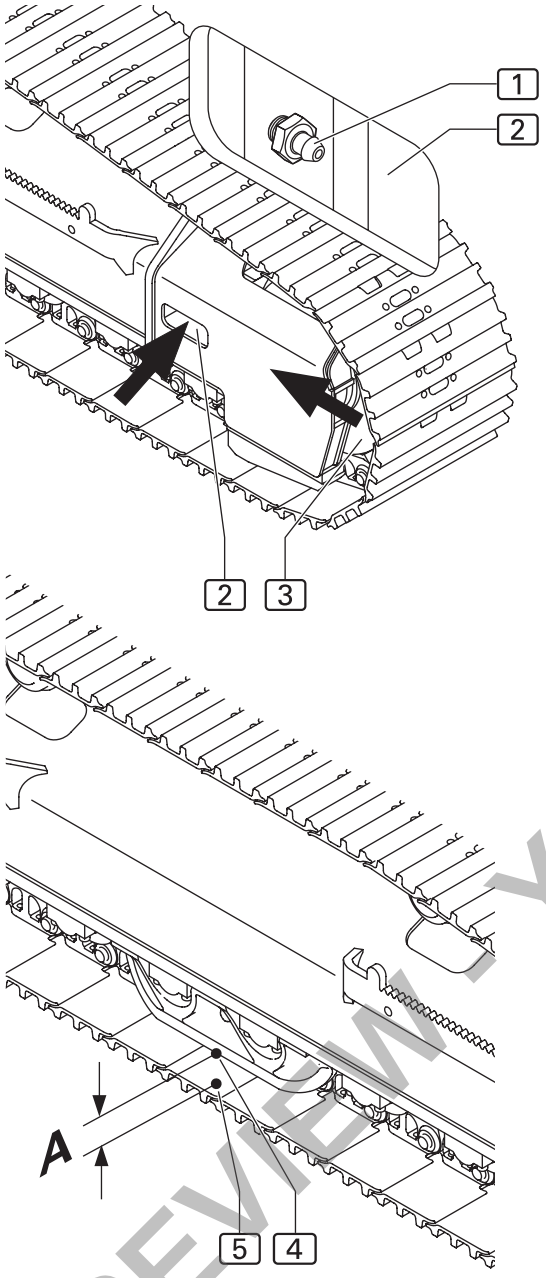
Attachment screw strength class 12.9

Thread	Strength classes 12.9	
	Tightening moment M_A / Nm	Tightening moment Swing angle / degree
M10 x 1	100 ± 5	32 ± 2
M12 x 1	170 ± 10	55 ± 3
M14 x 1.5	260 ± 15	85 ± 5
M16 x 1.5	390 ± 20	190 ± 10
M18 x 1.5	570 ± 30	280 ± 15
M19 x 1.5	690 ± 35	340 ± 15
M20 x 1.5	800 ± 40	360 ± 20
M22 x 1.5	1070 ± 50	400 ± 20
M24 x 1.5	1410 ± 70	470 ± 20
M27 x 1.5	2050 ± 100	670 ± 30
M30 x 2	2760 ± 140	910 ± 50
M32 x 2	3310 ± 165	1070 ± 50
M36 x 2	4860 ± 245	2430 ± 120

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3 Traveling mechanism



3.05

3.6 Chain assembly

CAUTION: Risk of squeezing/entanglement!

All traveling mechanism components have high dead weights. The rotating parts of the traveling mechanism additionally imply an increased risk of squeezing and entanglement due to the high action of forces.

- **Do not reach below or between the rotating crawler chain.**
- **Do not reach in the rotating track rollers, crawler gear rims or guide wheels.**
- **Prior to disassembly, secure heavy components of the traveling mechanism by a lifting device.**

3.6.1 Chain release

1. Fig. 3.05: Position traveling mechanism so that the end track pin (with a centering bore on the front ends) is located in the bend area of the guide wheel [3] (approx. 45° from the center to the bottom). Then position superstructure transverse to traveling mechanism.
2. Lower arm equipment to ground and tilt excavator until the crawler chain to be dismantled sags freely.
3. Secure traveling mechanism with lifting device (or suitable supporting material) in this position.

CAUTION: High pressure!

The hydraulic tension jack of the guide wheel is under high pressure. If the lubricating nipple loosens under pressure it may cause serious injuries.
Do not unscrew the lubricating nipple completely!

4. Release crawler chain on hydraulic tension jack [2]:
   - Thoroughly clean lubricating nipple [1].
   - Carefully loosen lubricating nipple and drain grease until slag **A** between central chain guide [4] and crawler chain [5] has reached 160 - 190 mm.
     If the guide wheel does not move back independently, provide chain slag manually by applying pressure on the guide wheel.
   - Re-tighten lubricating nipple:
     tightening moment 40 - 60 Nm.
5. Place excavator on crawler chain again.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

14 Maintenance intervals

14.2 Drive motor

14.2.1 Motor oil

Daily check:
- Check oil level

After 500 hours of operation or 6 months each:
- Change motor oil
- Change motor oil filter

Motor oil specification:

Designation	Viscostiy/type
Motor oil: API-CF-4/SJ ACEA E-5 Filling amount: 20 l	Arctic climate / -40 °C to 0 °C: SAE 0W 30
	Winter climate / -25 °C to 20 °C: SAE 5W30
	Winter climate / -20 °C to 20 °C: SAE 10W30
	Climatic zone -20 °C to 45 °C: CI-4/SAE 10W30
	Climatic zone -20 °C to over 45 °C: SAE 5W40 or SAE 15W40

14.2.2 Fuel filter unit

Measure in case of warning:
- Drain preliminary fuel filter

After 500 hours of operation or 6 months each:
- Change preliminary fuel filter
- Change fuel filter

14.2.3 Air filter unit

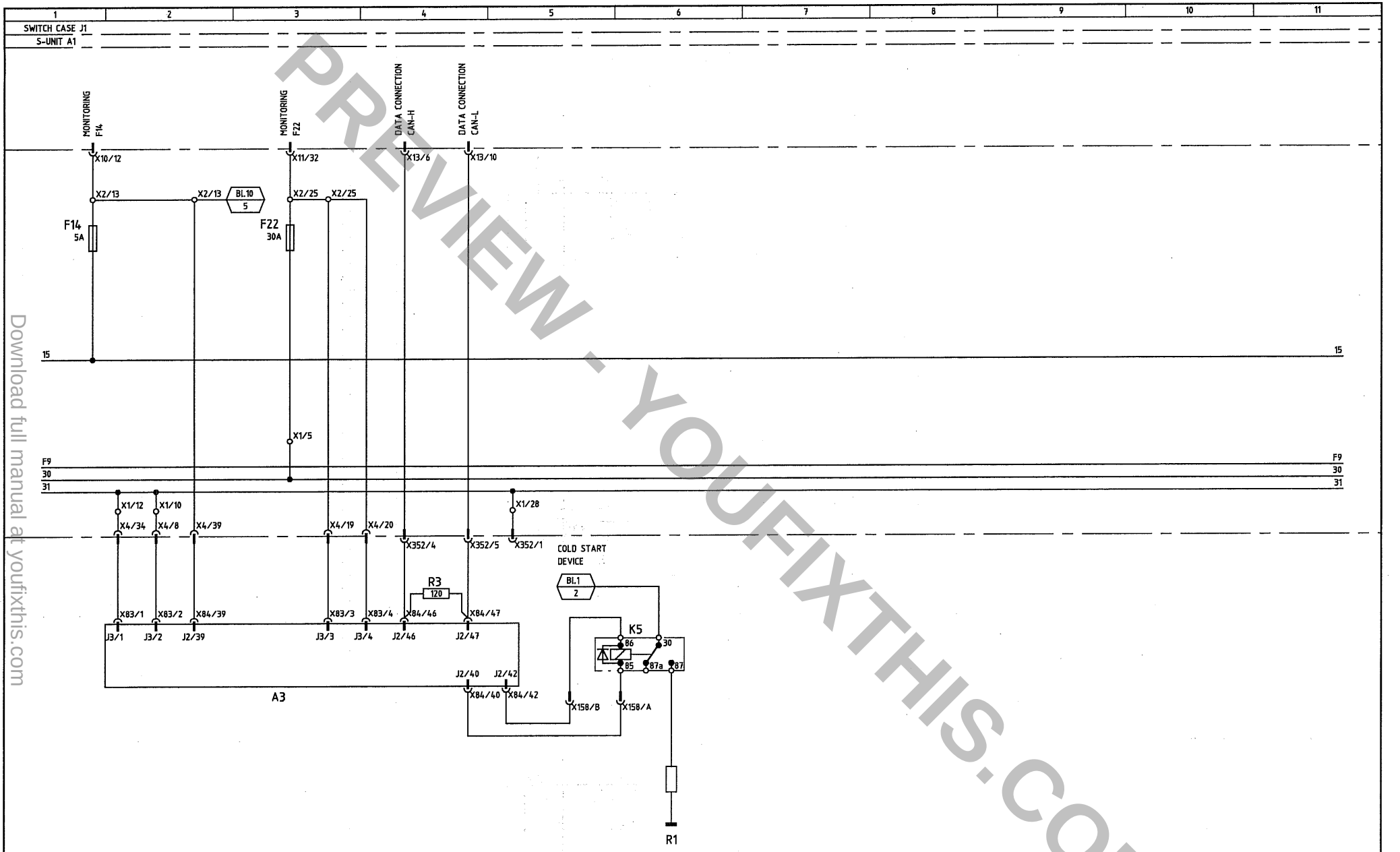
Measure in case of warning:
- Clean main filter element
  (the main filter can be cleaned five times max.)

After 1000 hours of operation or 24 months each:
- Change main filter element
- Change secondary filter element

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com



HEATING FLANGE
COLD START DEVICE

(EXTRA)

Teil-Nr.		4				8				Gezeichnet m.CAD	Ers. f.:	Ers. d.:	Massstab	Freig.f.Fertig. Dat.:	Name:		
DIN		3				7				Datum							
Stoff		2				6				Bearb.							
Rohmasse		1				5				Gepr.							
Schutzvermerk nach DIN 34 beachten!		Ind.	Aenderung	Datum	Name	Ind.	Aenderung	Datum	Name	Datum	22.03.2007						

TEREX

D

STROMLAUFPLAN

7800.715.20.29.003

Blatt 2
BL.

Contents

17.1 Hydraulic diagram TC 210/225 3

Legend:

A	Shovel
B	Boom
C	Travel
D	Slewing mechanism
E	Swan neck jib (post)

1	Drive motor
2	Main pump
3	Grab rotary pump (optional)
4	Pilot control pump
5	Fan pump
6	Rotary feed through
7	Traveling mechanism
8	Hydraulic oil cooler and thermostat valve
9	Fan motor with proportional valve
10	Solenoid valve for travel motor switching
11	Bypass valve for hammer valve
12	Pump summing valve for bending function
13	Pump summing valve for lifting function
14	Primary valve for main pump
15	Leakage oil-free shut-off for unbending function
16	Solenoid valve for lifting cylinder release (option)
17	Electro-hydraulic pressure control valve (option)
18	Pilot valve (pump summing)
19	Solenoid valve for pressure connection stage
20	Solenoid valve for pilot control shut-off
21	Hydraulic oil tank
22	Pilot control device travel
23	Pilot control device lifting / shovel
24	Pilot control device swan neck jib / slewing gear
25	Pilot control device for auxiliary tools
26	Logic block
27	Pressure sensor for auxiliary tools
28	Pressure sensor for slewing gear break
29	Pressure sensor for pump pressure
30	Slewing gear motor
31	Grab rotary valve (option)
32	Shovel cylinder
33	Lifting cylinder
34	Swan neck jib cylinder
35	Pressure sensor for lifting cylinder release (option)
36	Pressure sensor for lifting cylinder release (option)

PREVIEW - YOUFIXTHIS.COM

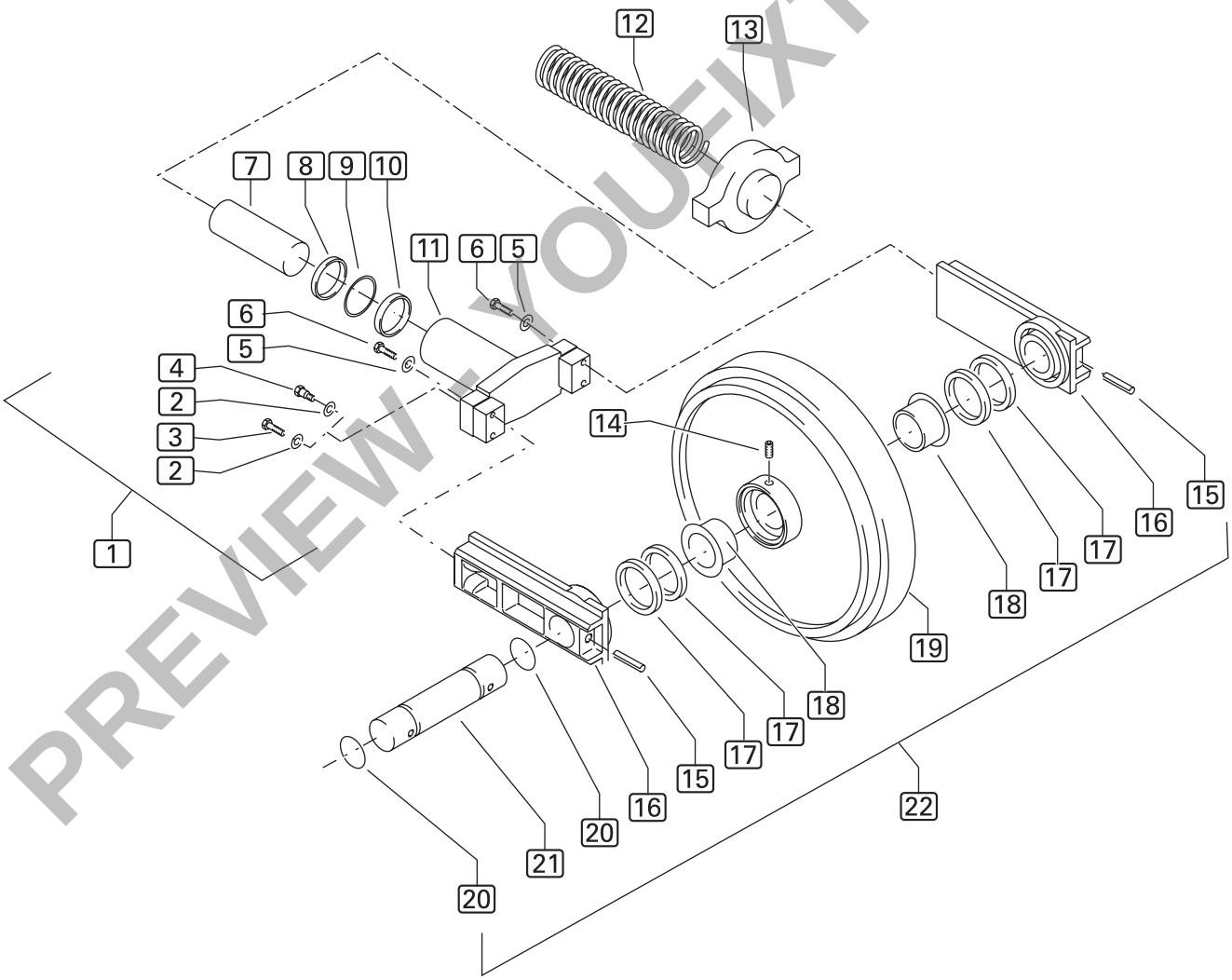
Download full manual at youfixthis.com

3 Traveling mechanism

3.5.2 Overview of component assembly Guide Wheel

Fig. 3.03

1 Hydraulic tension jack
2 Seal ring
3 Hexagon socket screw A3C
4 Lubricating nipple
5 Lock washer A3C
6 Hexagon socket screw
7 Piston
8 Stripper ring
9 Support ring
10 Groove ring
11 Cylinder
12 Spring
13 Spring plate
14 Screw plug A3C
15 Clamping sleeve
16 Slider
17 Lifetime seal ring
18 Bushing
19 Guide wheel
20 O-type sealing ring
21 Axle shaft
22 Guide wheel unit D4



3.03

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

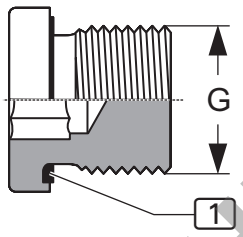
4 Hydraulic system settings

4.2 General values for tightening moments

Unless explicitely otherwise provided for, the below-listed tightening moments (M_A) apply for closing bolts and set screws.

4.2.1 Screw plugs with hexagon sockets and profile sealing rings

G Thread
1 Profile sealing ring (acc. to N 02.009)

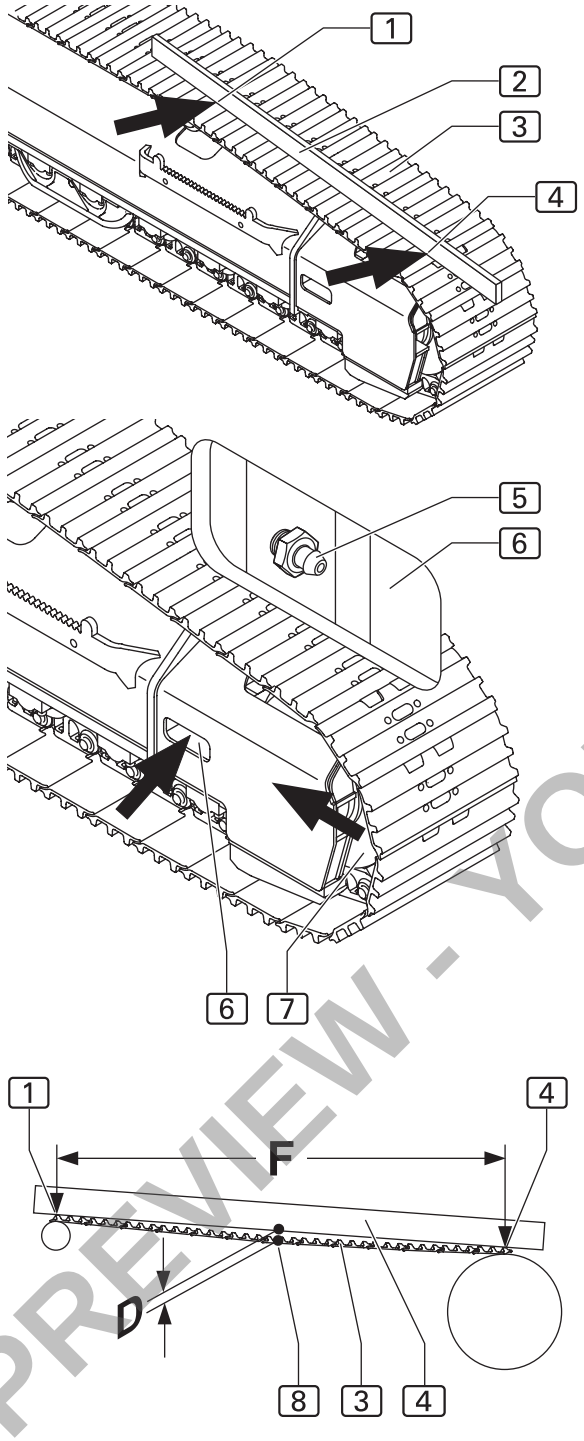


Thread	Tightening moment M_A / Nm	Thread	Tightening moment M_A / Nm
M8 x 1	5	G 1/8 A	10
M10 x 1	10	G 1/4 A	30
M12 x 1.5	20	G 3/8 A	35
M14 x 1.5	30	G 1/2 A	60
M16 x 1.5	35	G 3/4 A	90
M18 x 1.5	40	G 1 A	140
M20 x 1.5	50	G 1 1/4 A	240
M22 x 1.5	60	G 1 1/2 A	300
M26 x 1.5	70		
M27 x 2	90		
M30 x 1.5	100		
M33 x 2	140		
M42 x 2	240		
M48 x 2	300		

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3 Traveling mechanism



3.06

3.6.2 Chain tensioning

In order to tension the chain, the excavator must be placed on both crawler chains. Make sure that the chain is correctly positioned in the guide wheel, the track rollers and the support rollers. The chain is tensioned properly if a slag of **D** = approx. 20 - 30 mm is provided on a length F = 1 – 1.5 m). The ratio between **D** and F is linear. If the length F between the two support points is shorter, the value **D** must be appropriately lower.

1. Fig. 3.06: Place a leveling staff [2] on the support points of chain [3] at support roller [1] and the guide wheel [4].
2. Tension the crawler chain on hydraulic jack [6] of guide wheel [7]:
   - Thoroughly clean lubricating nipple [5].
   - Place coupling of grease gun on lubricating nipple and fill hydraulic jack with grease until slag **D** at the central measuring point [8] between the two support points has a width of approx. 20 - 30 mm.
3. Move traveling mechanism forward and backward by approx. 1 complete revolution of the drive wheel. Check slag **D** again; add and/or remove grease as appropriate.
4. Check whether grease emerges from the lubricating nipple; re-tighten lubricating nipple if required:
   - Tightening moment 40 - 60 Nm.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

14 Maintenance intervals

14.2.4 Coolant

Check in case of warning:

- Check coolant level

After 2000 operating hours or 24 months each:

- Change coolant

Designation	Specification/mixture
Coolant (water cooling): Fleetguard® Compleat Filling amount: 42 l	ASTM 4985 (specification GM6038M) Antifreeze protection to -36° C max., Mixing ratio: 50 vol.% fresh water, 50 vol.% corrosion protection antifreezer.

14.2.5 V-belt

Single-time measure after 50 hours of operation:

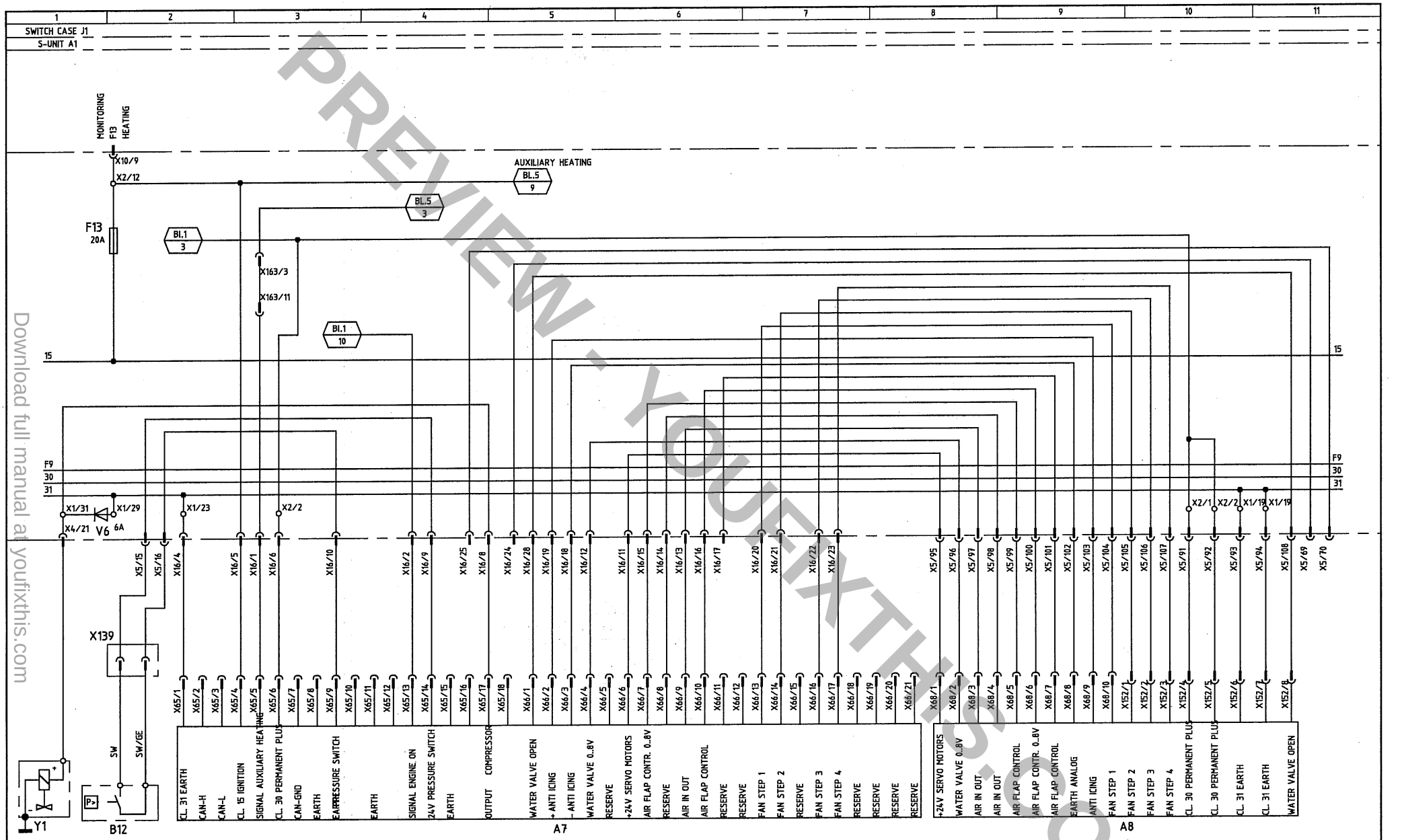
- Check V-ribbed belt

After 500 hours of operation or 24 months each:

- Check condition and tension of V-ribbed belt

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



LIFTING MAGNETSWITCH
COMPRESSOR AIR CONDITION
AIR CONDITION

OPERATION HEATING-AIRCONDITIONING

FA. WÖLFLE

HEATING AND AIR CONDITIONING

Teil-Nr.		4				8				Gezeichnet m.CAD	Ers. f.:	Ers. d.:	Massstab	Freig.f.Fertig. Dat.:	Name:
DIN		3				7				Datum					
Stoff		2				6				Bearb.					
Rohmasse		1				5				Gepr.					
Schutzvermerk nach DIN 34 beachten!		Ind.	Aenderung	Datum	Name	Ind.	Aenderung	Datum	Name	Datum	19.02.2007		D	STROMLAUFPLAN	
														7800.715.20.29.003	Blatt 3 Bl.

TEREX

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

5 Main pump

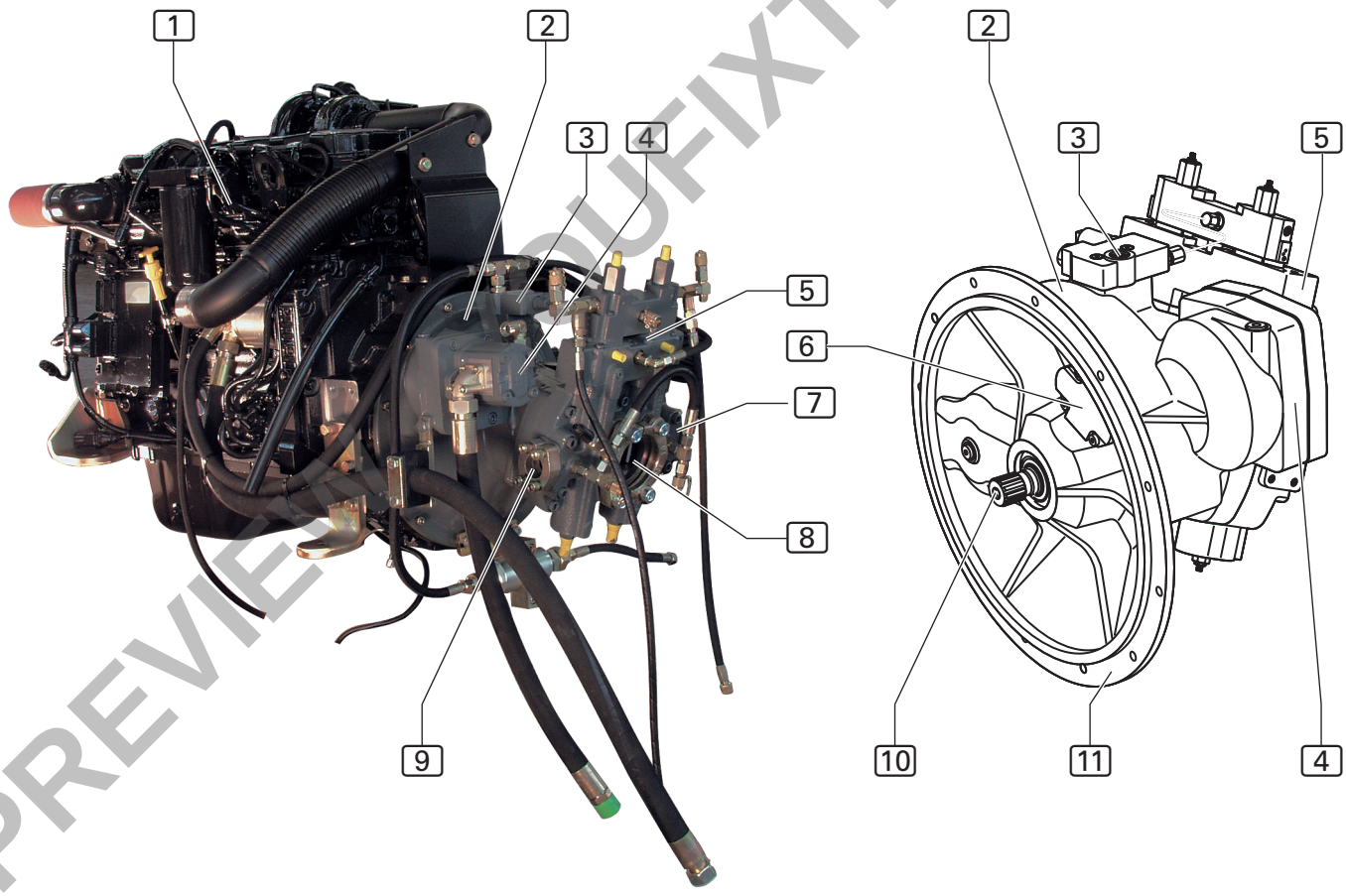
5.5 Construction of main pump

The main pump is an axial piston pump type. The pump housing is flanged to the drive motor. The axial piston pump is driven by means of a drive shaft from the drive motor.

5.5.1 Overview of component assemblies

Fig. 5.01

1 Drive motor / Cummins - QSB6.7 TIER III
2 Main pump
3 Oil pressure pump (pilot control)
4 Oil pressure pump (fan)
5 Control housing
6 Oil pressure pump (pilot control)
7 Service port, pressure side (pump 1)
8 Suction-side port
9 Service port, pressure side (pump 2)
10 Drive shaft, axial piston pump
11 Mounting flange



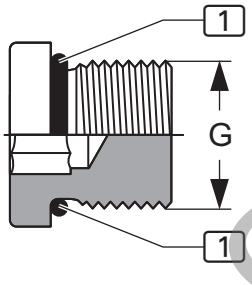
5.01

PREVIEW ONLY - YOUFIXTHIS.COM
Download full manual at youfixthis.com

4 Hydraulic system settings

4.2.2 Screw plugs with hexagon sockets, O-type sealing ring and UNF, UN thread pursuant to SAE J 514

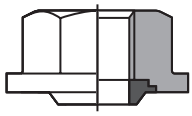
G Thread
[1] O-type sealing ring (acc. to N 02.106)



Thread	Tightening moment M_A / Nm	Thread	Tightening moment M_A / Nm
7/16 - 20 UNF	15	M12 x 1.5	10
1/2 - 20 UNF	20	M14 x 1.5	30
9/16 - 18 UNF	25	M16 x 1.5	35
3/4 - 16 UNF	72		
7/8 - 14 UN	127		
1 1/16 - 12 UN	147		
1 3/16 - 12 UN	173		
1 5/16 - 12 UN	198		
1 5/8 - 12 UN	320		
1 7/8 - 12 UN	390		

4.2.3 Sealing nuts

SEAL-LOCK type nuts (according to N 02.100)

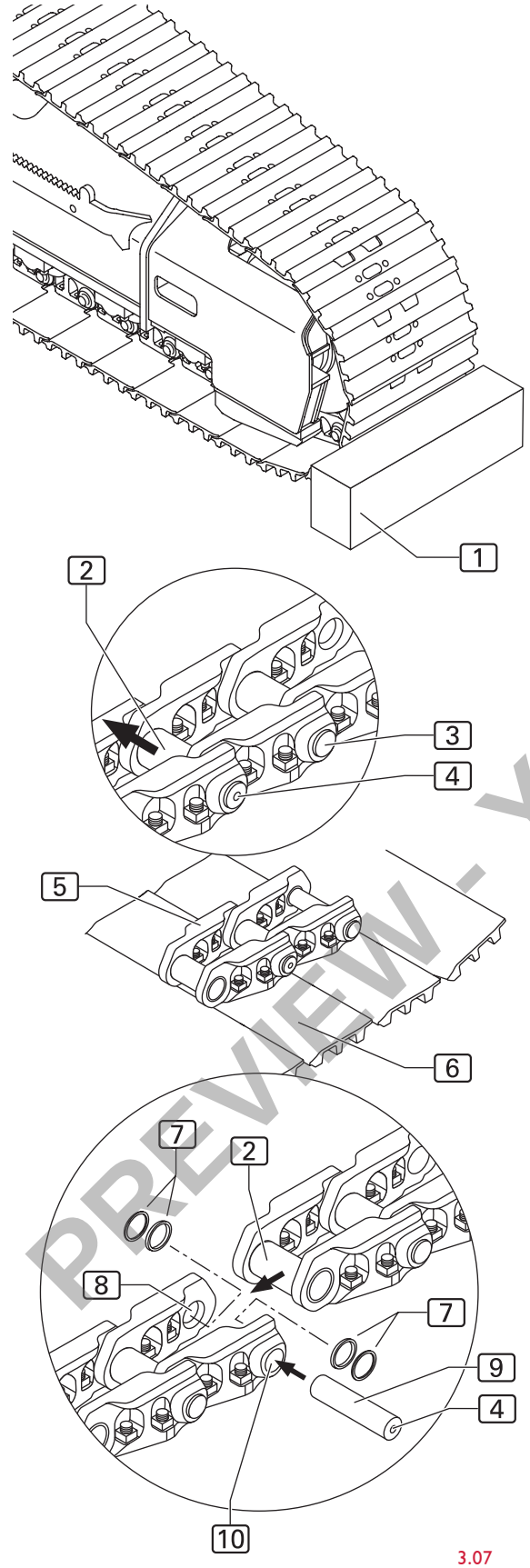


Thread	Tightening moment M_A / Nm
M6	10
M6 x 0.5	11
M8	22
M8 x 1	24
M10	40
M10 x 1	44
M12	69
M12 x 1.5	72
M14	110
M14 x 1.5	120
M16	170
M16 x 1.5	180

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3 Traveling mechanism



3.07

3.6.3 Open and close chain

Take out chain link at end track pin:

The excavator is fitted with a greased chain. The track pins are guided in greased bushings. The bushing are sealed with an end ring on each side of the link segment.

Fig. 3.07: The end track pin [8] of the chain differs from the other track pins [3] by a centering bore [4].

1. Thoroughly clean floor plate [6] and chain links [5] in the area of the end track pin.
2. Fig. 3.07: Place a squared timber [1] under the chain guide wheel to prevent the floor plate from hitting the floor under the chain weight.
3. Place a mandrel on the centering bore and knock out the end pin from the chain link to the inside (as an option, the end pin may be pressed out of the link by means of a hydraulic press).
5. Lift chain off the guide wheel and the crawler gear rim by means of a lifting device.

Close chain link with end pin:

1. Check inner surface of bushing [2] as well as seal rings at both sides of the chain link. The seal rings must sit tightly, the inner surface must be free of scores; replace bushing if required.
2. Slightly grease the inner surface of the bushing.
3. Place on pair of seal rings [7] each in the bolt eyes [8] and [10].
4. Push chain links together so that bushing [2] is aligned exactly above bolt eyes [8] and [10].
5. Slightly grease the end pin tip.
6. Knock in end pin [9] from the outside to the inside (or use hydraulic press).

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

14 Maintenance intervals

14.3 Hydraulic system

Single-time measure after 50 hours of operation:

- Change hydraulic oil filter element

Daily check:

- Check oil level

After 500 hours of operation or 6 months each:

- Change hydraulic oil filter element

After 3000 hours of operation or 24 months each:

- Change hydraulic oil

Hydraulic oil specification:

Designation	Viscosity/type
Hydraulic oil: TEREX special hydraulic oil[1] Filling amount: 216 l	HEPG or HEES
	[1]If not available and ambient temperature below +15 °C: motor oil API-CD-SAE 10 W
	[1]If not available and ambient temperature above +15 °C: motor oil API-CD-SAE 10 W

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Index

1. Safety Instructions / Safety Measures
2. Drive motor
3. Traveling mechanism
4. Hydraulic system settings
5. Main pump / Auxiliary pumps
6. Control block
7. Slewing Mechanism
8. Travel motor / Crawler gear
9. Pilot control block
10. Pilot Control Equipment
11. Arm System – Hydraulic Cylinders
12. Hydraulic system auxiliary equipment
13. Air conditioning system
14. Maintenance intervals
15. Instructions for Welding
16. Technical Data
17. Hydraulic diagrams
18. Amendments for type TC 225 LC/NLC

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 373 pages

The full manual includes:

- All 373 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Terex TC 210 LC, TC 210 NLC, TC 225 LC, TC 225 NLC, TC 210 LC/NLC, TC 225 LC/NLC Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual