Components			
Item	***Type***	***Designation***	***Position on diagram***
E1	E	Rear right hand indicator light	B35
E2	E	Front right-hand indicator light	B35
E3	E	Rear left-hand indicator light	B36
E4	E	Front left-hand indicator light	B36
E5	E	Left hand brake light	B33
E6	E	Right hand brake light	B33
E7	E	Rear right hand side light	B44
E8	E	Front right hand side light	B45
E9	E	Rear left hand side light	B46
E10	E	Front left hand side light	B46
E11	E	Front left-hand dipped light	B46
E12	E	Front right-hand dipped light	B47
E13	E	Front left-hand headlight	B48
E14	E	Front right-hand headlight	B48
E15	E	Rear right-hand working light (option)	B42
E16	E	Rear left-hand working light (option)	B42
E17	E	Front left-hand working light (option)	B41
E18	E	Front right-hand working light (option)	B41
E19	E	Rotating beacon light	B17
E20	E	Left-hand reverse light (option)	B29
E21	E	Roof light	C37
E22	E	Right-hand reverse light (option)	B29
E23	E	Rear left-hand fog light (option)	B47
E24	E	Rear right-hand fog light (option)	B48
E25	E	Head jib left work light	B40
E26	E	Head jib right work light	B41
E27	E	License Plate light (option)	
F1	Fuse	Free (10A Max)	F11
F2	Fuse	Rear working light (option) (15A)	F42
F3	Fuse	Rear windscreen / roof wiper (7,5A)	F14
F4	Fuse	Engine stop electrovalve (10A)	F18
F5	Fuse	Rotating beacon light (7,5A)	F18
F6	Fuse	Wheel alignment (5A)	F20
F7	Fuse	Overload safety (10A)	F23
F8	Fuse	Forward/reverse/neutral Transmission (15A)	F27
F9	Fuse	Fault alarm/light (5A)	F4
F10	Fuse	Alarm / brake (15A)	F33
F11	Fuse	Working light on boom (15A Max)	F40
F12	Fuse	Flashing lights (10A)	F38
F13	Fuse	Fan (30A)	F52
F14	Fuse	Free (10A)	F54
F15	Fuse	Free (25A Max)	F54
F16	Fuse	Air conditioning (option) (10A Max)	F52
F17	Fuse	Free (15A Max)	F55
F18	Fuse	Front working lights (option) (15A)	F41
F19	Fuse	Rear window defrosting (option) (15A Max)	F40

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

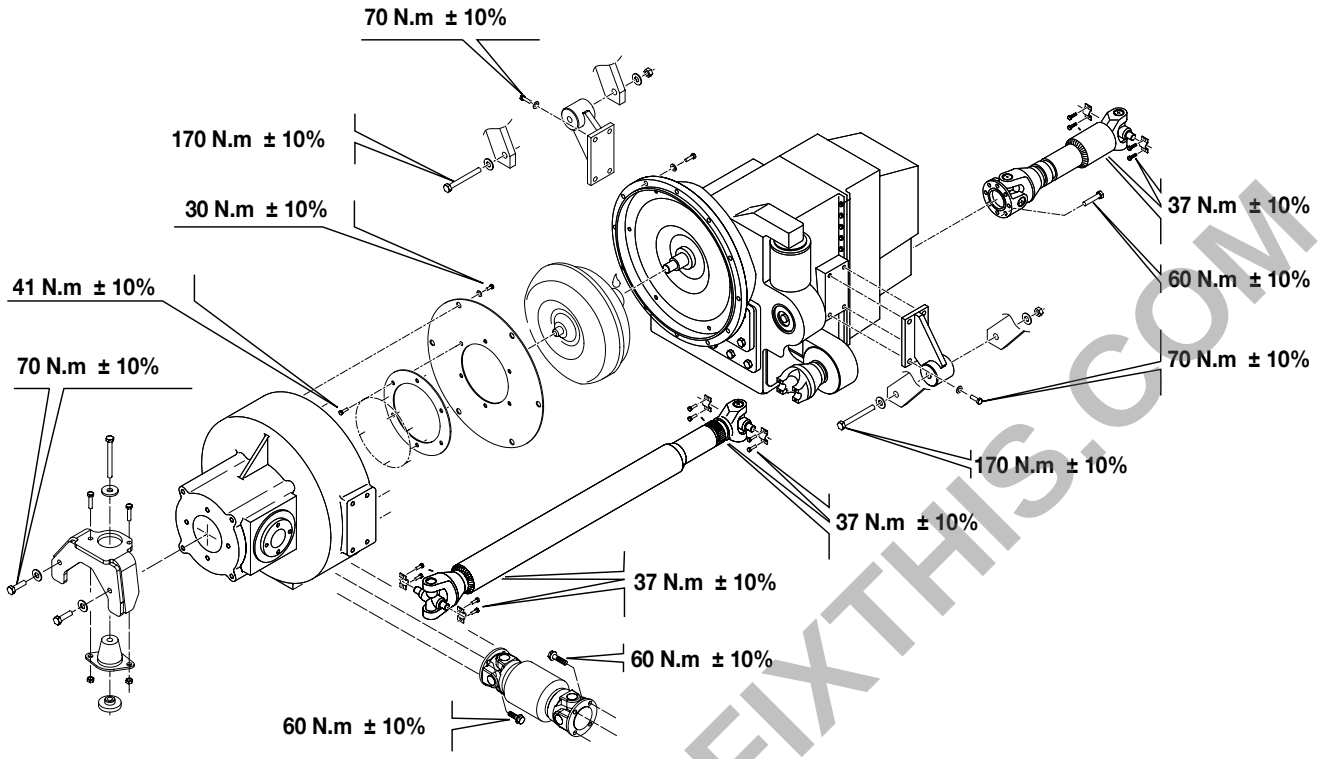
HYDRAULIC DIAGRAM KEY			
Item	***Designation***	***Position on diagram***	***Characteristics (Options)***
CA	Suction strainer	S6	
CSP	Counterbalance valve	I24/I34/G37	
CSD	Double counter balance valve	K37	
D	4 component valve	O35	
EE	Inlet section	S24	
EA(O)	Attachment component	S25	
EL	Lifting component	S28	
EI	Tilt component	S30	
ET	Telescoping component	S32	
EF	Closing component	S34	
D3	3 position steering valve	A12	
	Position 1: short steering		
	Position 2: front wheel steering		
	Position 3: crab position		
FDAV	Front disc brake	K3	
FR	Return filter	O15	
M	Turbo i.c. engine	Q7	1104d-44t/1104d-44ta
	Idle speed		930 rpm
	Nominal loaded speed		2200 rpm
	Full speed unladen		2380 rpm (1104d-44t)
	Full speed unladen		2400 rpm (1104d-44 ta)
MC	Master cylinder	E4	
N	Level	S4	
P	Pump equipment	Q4	
PAAV(O)	Front attachment plug (option)	E22	
PD	Steering pump	C11	
PP	Pressure port	O24	
R	Hydraulic tank	S5	
RLF	Brake fluid tank	A5	
VC	Compensation cylinder DE	I28	110x55 c310 (mt 7 and 9)
VI	Tilt cylinder DE	E28	120x60 c416 (mt 7 and 9)
VD	Discharge valve	O10	
VDAV	Front steering cylinder DE	K5	90x45 c80x2
VDAR	Rear steering cylinder DE	K11	90x45 c80x2
VL	Lifting cylinder DE	G24	140x70 c720 (mt 7 and 9)
VT	DE telescoping cylinder	I33	70x50 c2700 (mt 7)
VT1	DE telescoping cylinder	I38	100x60 c2600 (mt 9)
VT2	DE telescoping cylinder	G38	80x50 c2600 (mt 9)
VACM(O)	Movement cut-off valve (option)	Q18	

NOTE: 1- The calibration pressures of the main relief valves, on the inlet sections, are given for maximum engine speed.
2- The calibration pressures of the secondary relief valves are at an engine speed of 1000 rpm.
3- The pressure relief valves should be adjusted at an oil temperature of 50°C.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TRANSMISSION TIGHTENING TORQUE



Standard torque settings to be used when no specific mention is made in dismantling and re-assembly.

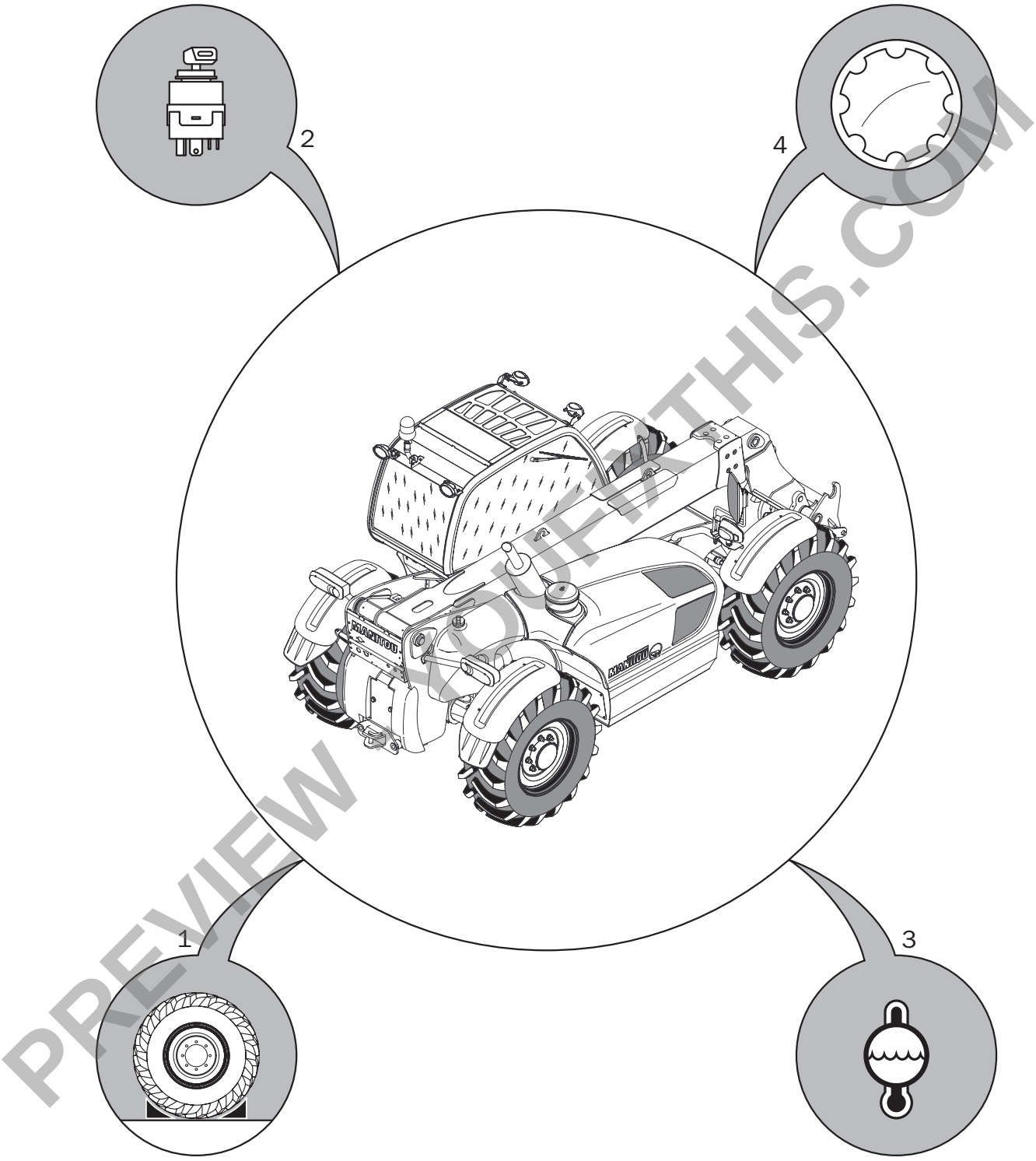
Torque expressed in N.m (*)					
Thread diameter	**Class 5.6**	**Class 5.8**	**Class 8.8**	**Class 10.9**	**Class 12.9**
M3	0,54	0,76	1,16	1,7	2
M4	1,24	1,74	2,66	3,91	4,57
M5	2,47	3,46	5,2	7,7	9
M6	4,29	6	9,1	13,4	15,7
M8	10,4	14,6	22	32	38
M10	20	28	44	64	75
M12	35	49	76	111	130
M14	57	79	121	178	209
M16	88	124	189	278	325
M18	122	171	261	384	449
M20	173	243	370	544	637
M22	238	334	509	748	875
M24	298	418	637	936	1095
M27	442	619	944	1386	1622
M30	600	840	1280	1880	2200

(*) - Tightening torques are given for black or zinc-plated fasteners with light lubrication.
- Tightening torques are given for automatic slip and reset torque wrenches and direct read dial torque wrenches.
- For more information consult French Standard NF E25-030.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MAINTENANCE POSITION

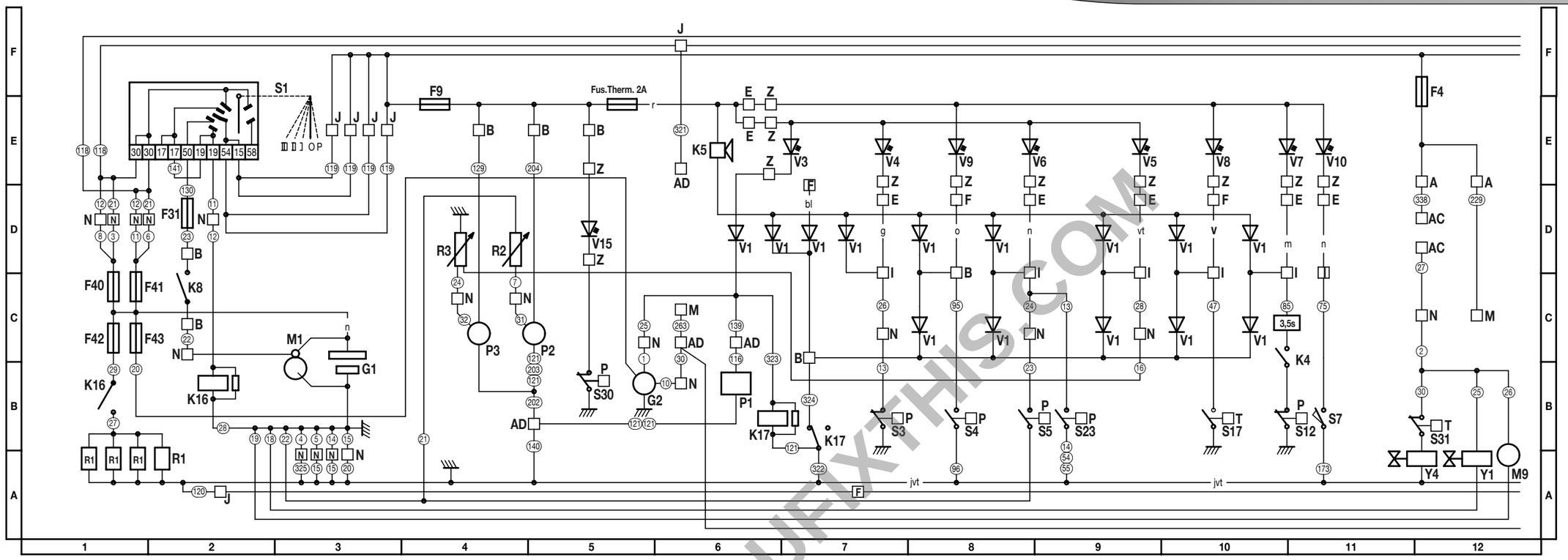


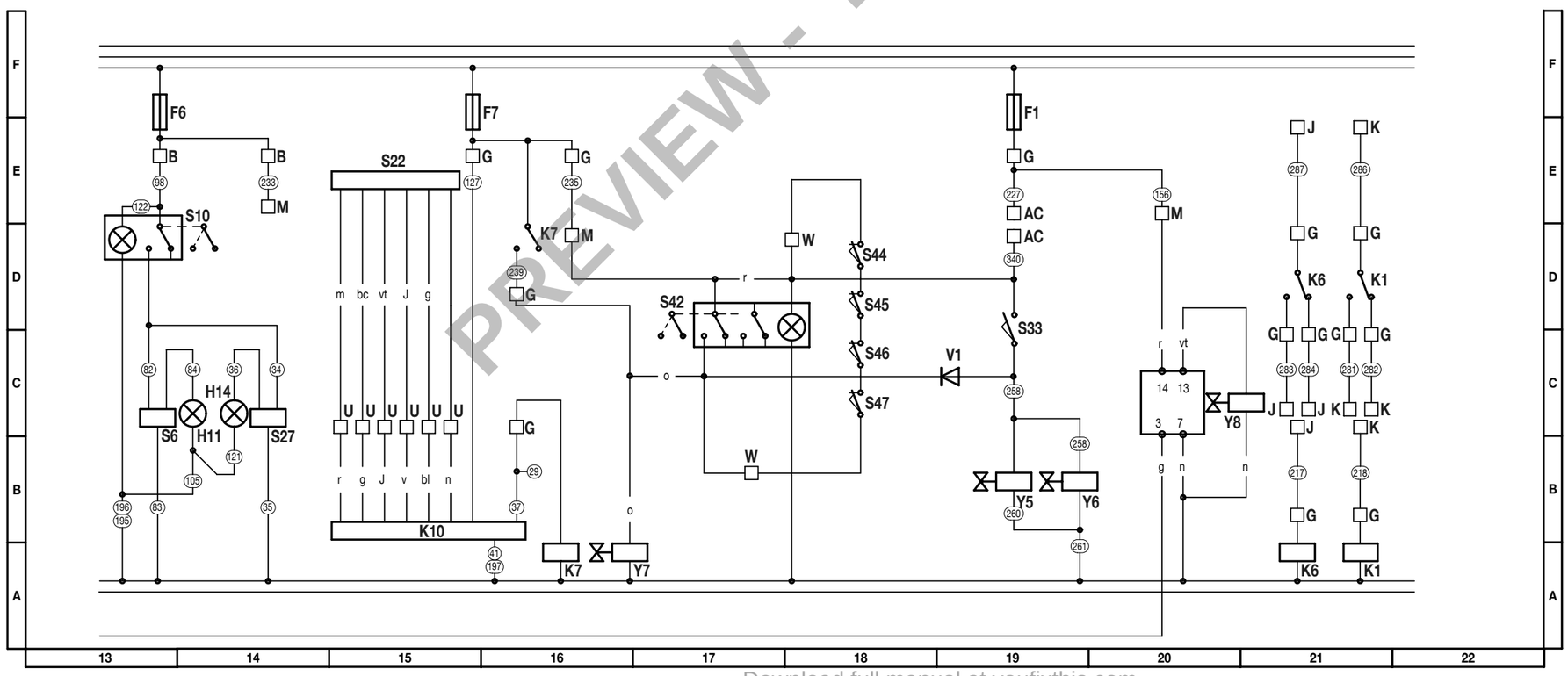
Before any repair:

1 – Place the machine on a flat surface and block the wheels.
2 – Turn the engine off and take the key out of the ignition switch.
3 – Let the machine cool down.
4 – Take all the pressure out of the circuits concerned.

PREVIEW YOUFIXTHIS.COM

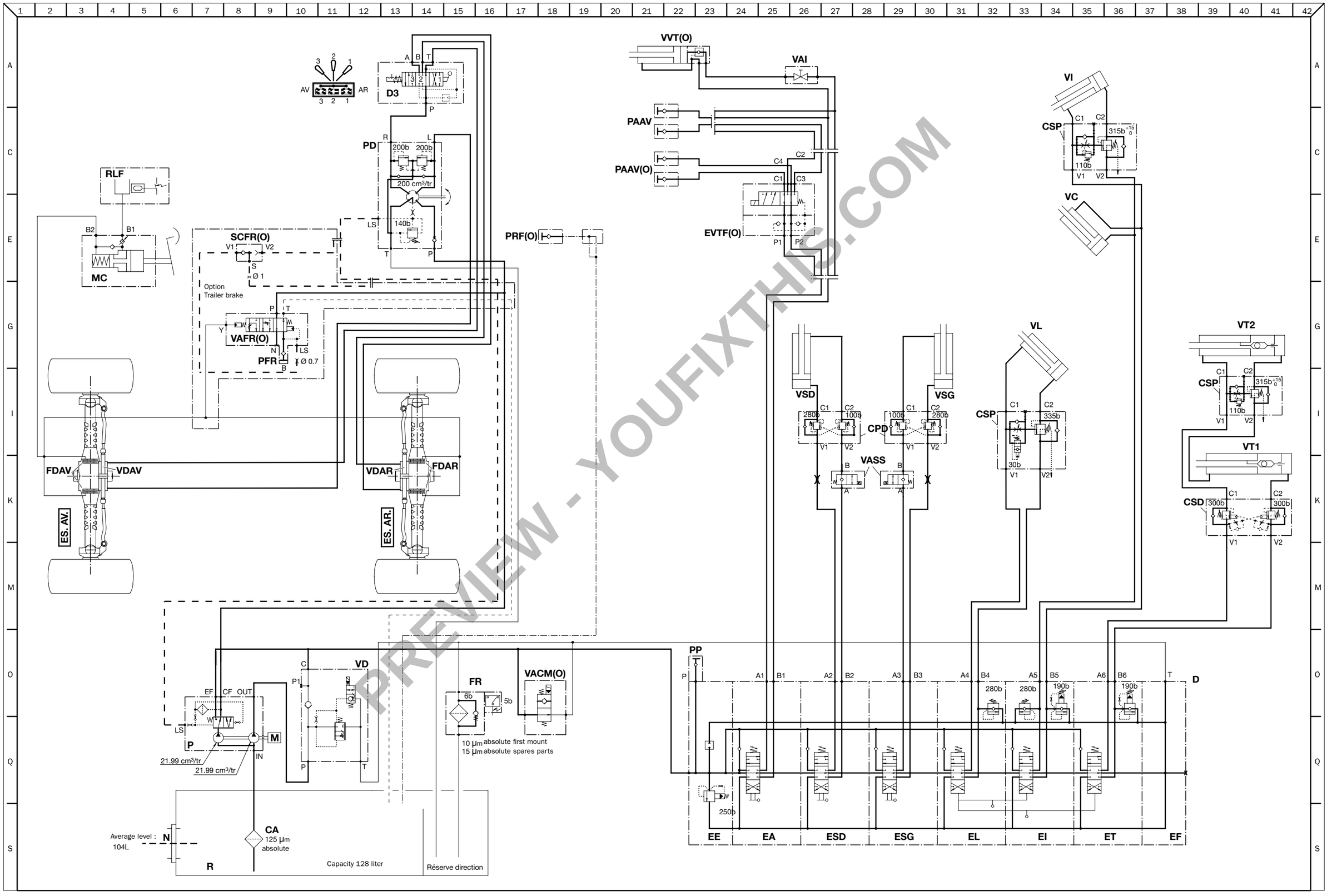
Download full manual at youfixthis.com





PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

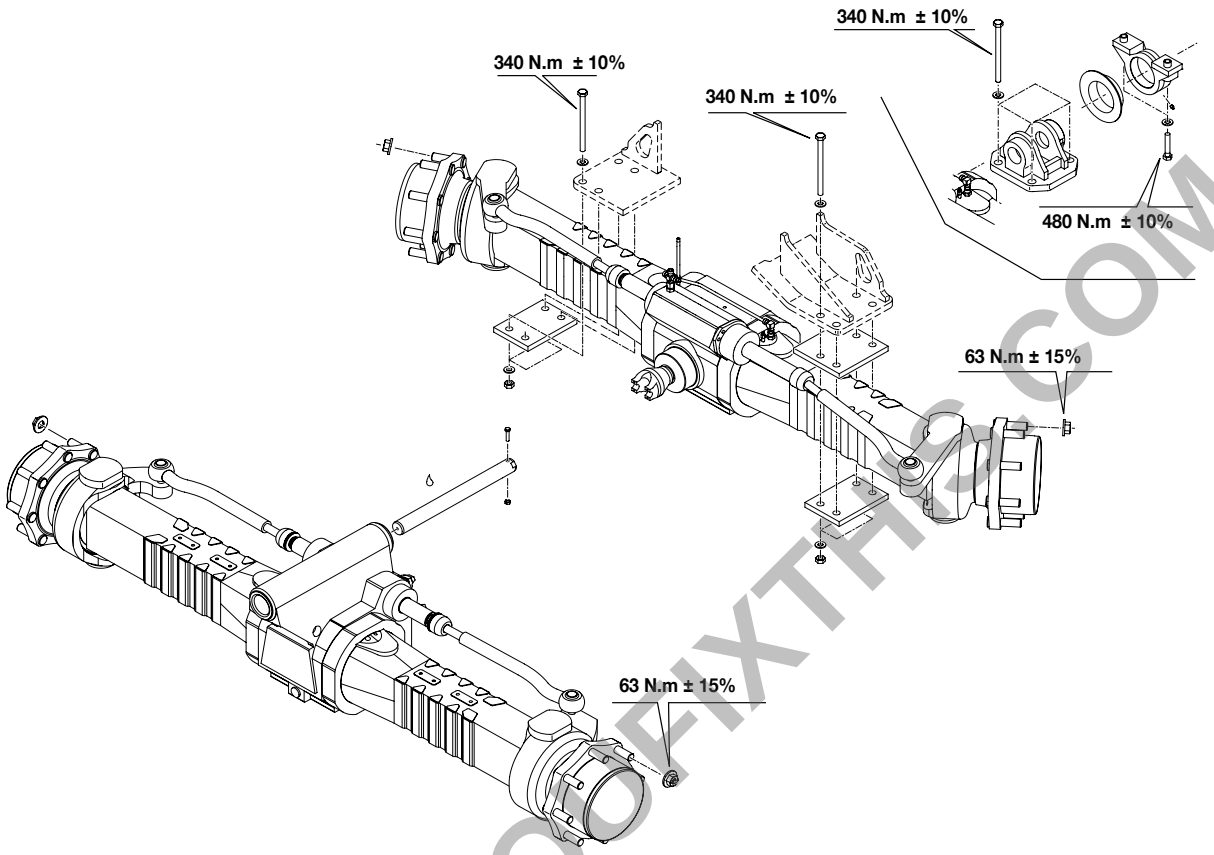


PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

AXLE TIGHTENING TORQUES

MLT 1035 LT LSU

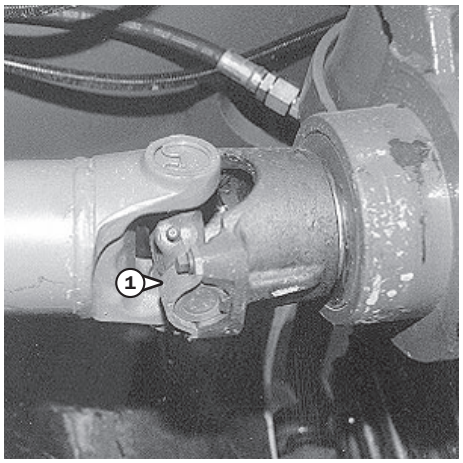


Standard torque settings to be used when no specific mention is made in dismantling and re-assembly.

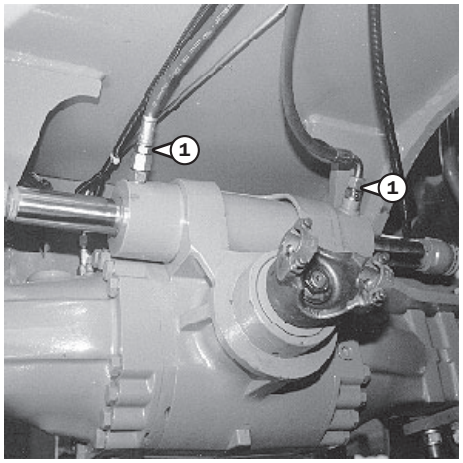
Torque expressed in N.m (*)					
Thread diameter	**Class 5.6**	**Class 5.8**	**Class 8.8**	**Class 10.9**	**Class 12.9**
M3	0,54	0,76	1,16	1,7	2
M4	1,24	1,74	2,66	3,91	4,57
M5	2,47	3,46	5,2	7,7	9
M6	4,29	6	9,1	13,4	15,7
M8	10,4	14,6	22	32	38
M10	20	28	44	64	75
M12	35	49	76	111	130
M14	57	79	121	178	209
M16	88	124	189	278	325
M18	122	171	261	384	449
M20	173	243	370	544	637
M22	238	334	509	748	875
M24	298	418	637	936	1095
M27	442	619	944	1386	1622
M30	600	840	1280	1880	2200

(*) - Tightening torques are given for black or zinc-plated fasteners with light lubrication.
- Tightening torques are given for automatic slip and reset torque wrenches and direct read dial torque wrenches.
- For more information, refer to Standard NF E25-030.

Download full manual at youfixthis.com



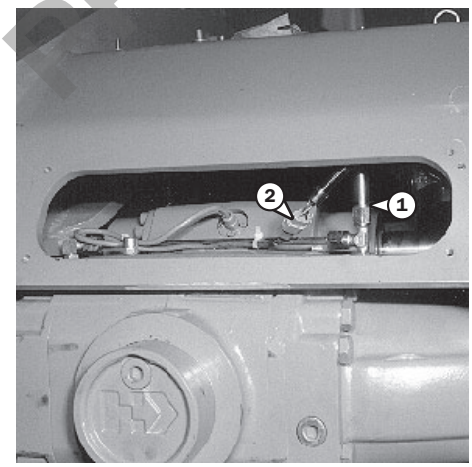
- Remove the two fixing clamps 1 at the axle end of the drive shaft.



- Disconnect the two hoses 1 from the steering ram.



- Remove the forward chassis cover plate 1.

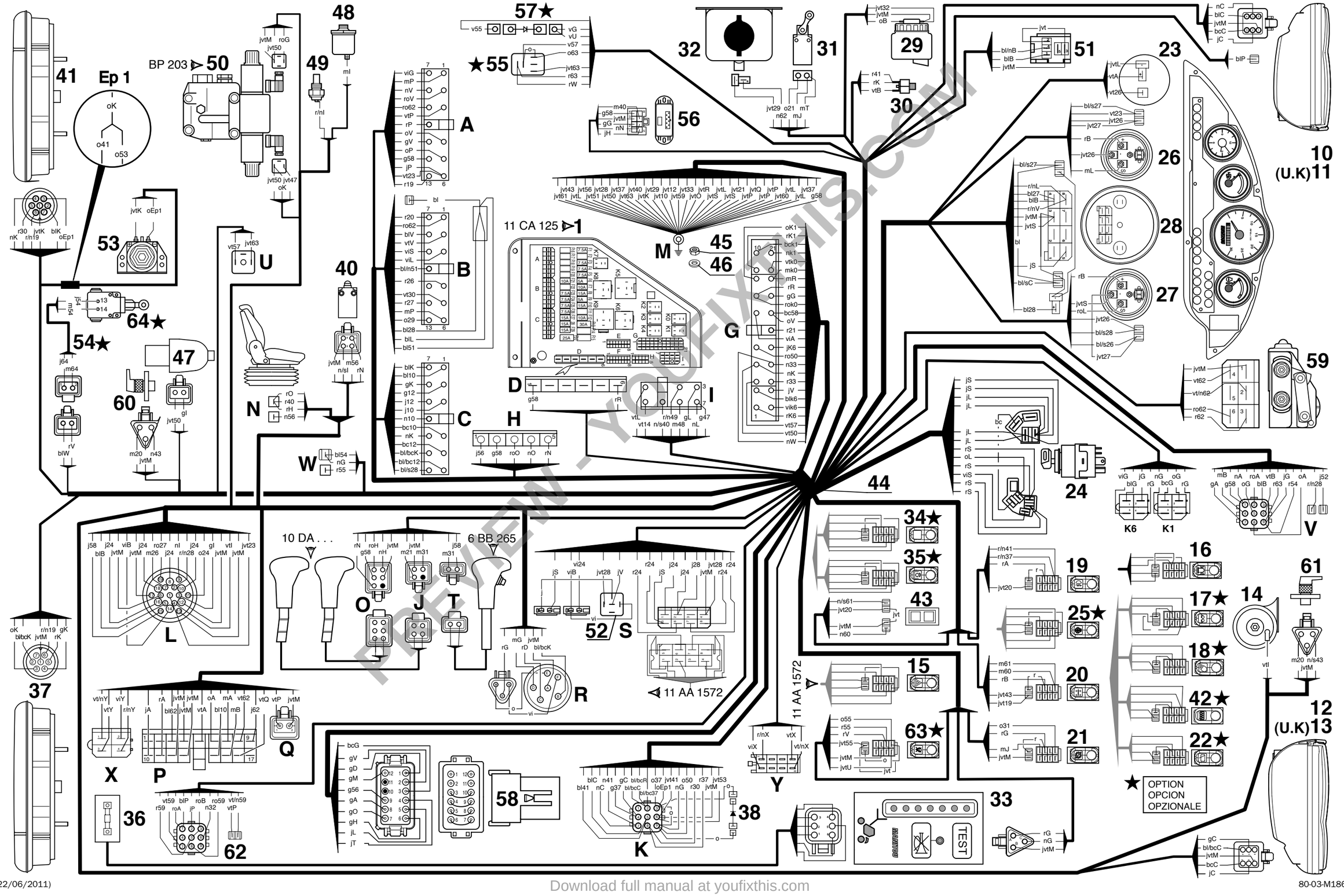


- Disconnect the brake fluid supply pipe 1.
- Plug the pipe and the union.
- Disconnect the wheel direction sensor wiring 2.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MT-X 732 S.D-E3

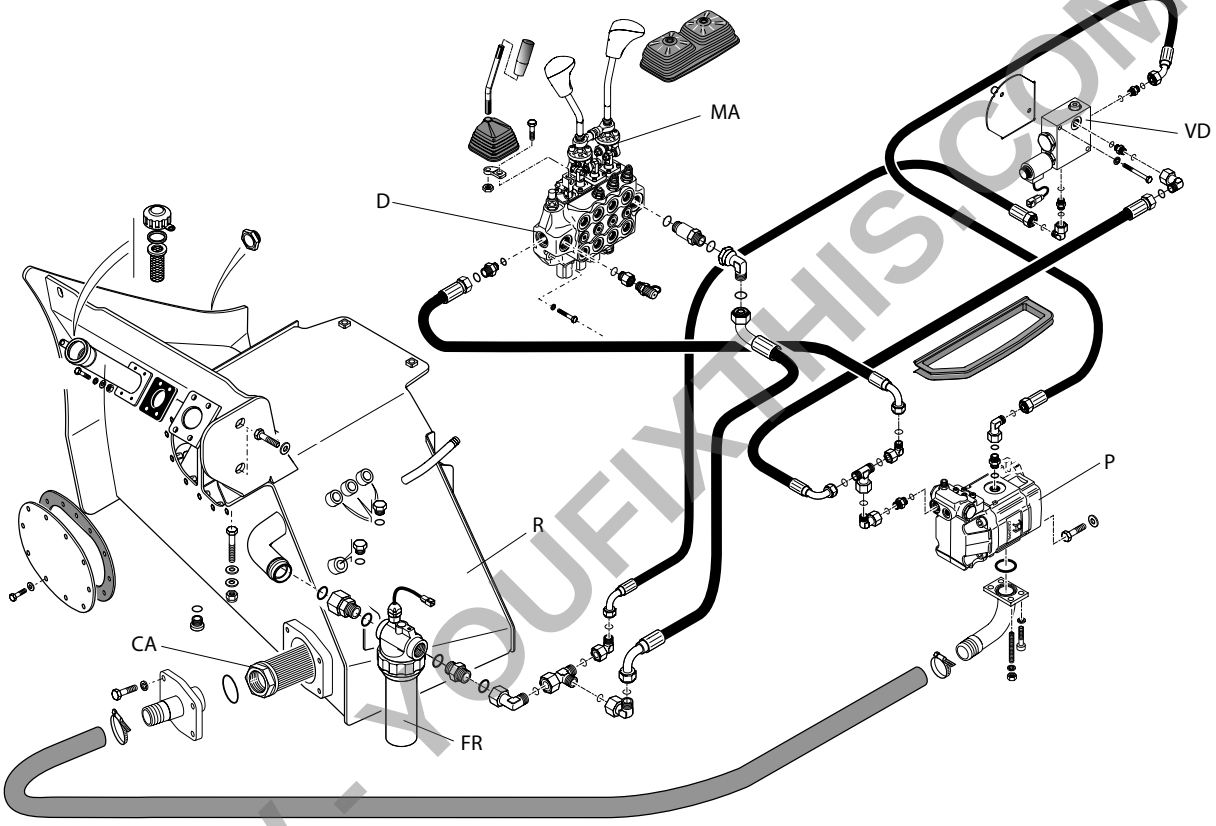


PREVIEW - YOUFIXTHIS.COM

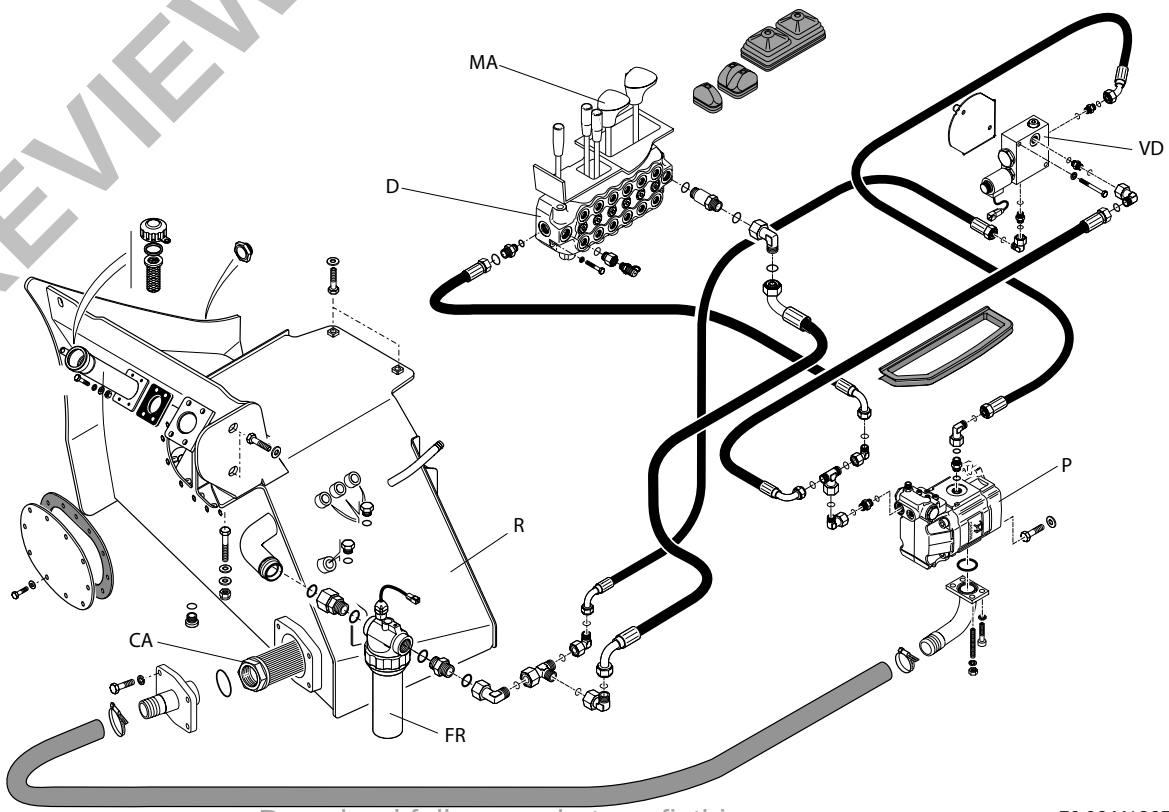
Download full manual at youfixthis.com

1 - MAIN HYDRAULIC CIRCUIT

MT-X732 S.D-E3



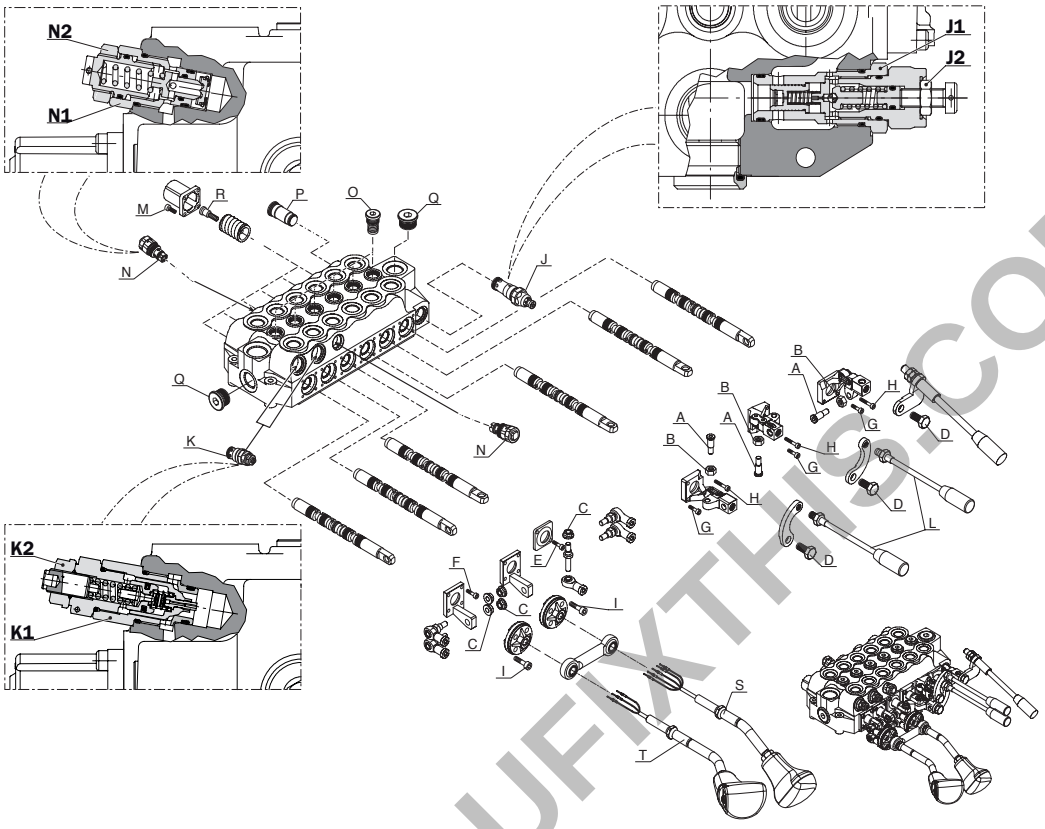
MT-X1030 S Turbo S4-E3



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TIGHTENING TORQUES MT-X



Ref	Designation	Number	Size (mm)	tightening torque (N.m)
A	Vis lever	3	5	24
B	Nut M10	3	17	24
C	Locknut	5	13	24
D	screw M12x20	3	18	24
E	screw M5x12	2	4	6,6
F	screw M5x14	8	4	6,6
G	screw M5x18	6	4	6,6
H	screw M5x25	3	4	6,6
I	screw M8x25	5	6	24
J	Complete pressure relief valve	1	27	42
J1	Complete pressure relief valve (detail)	1	27	42
J2		1	13	24
K	Complete pressure relief valve	2	24	42
K1	Complete pressure relief valve (detail)	2	24	42
K2		2	17	24
L	Lever M12x200	2	19	42
M	Screw hood	24	4	6,6
N	Complete pressure relief valve	2	24	42
N1	Complete pressure relief valve (detail)	2	24	42
N2		2	22	24
O	Valve	6	8	42
P	Plug	1	8	42
Q	Plug	2	12	42
R	Screw	6	6	24
S	Lever	1	19	42
T	Lever	1	19	42

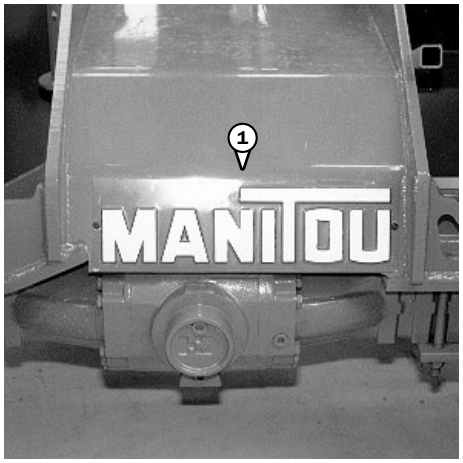
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

BRAKE CIRCUIT BLEEDING



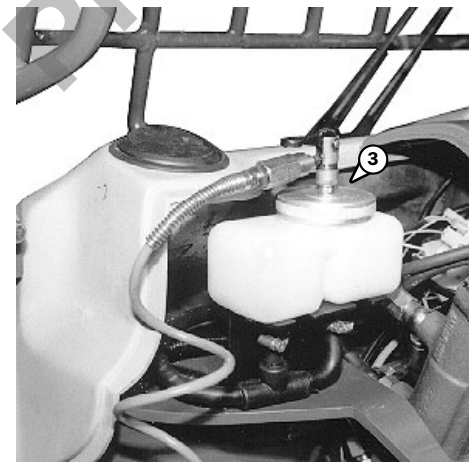
REQUIRED EQUIPMENT: 1 pressurized brake bleeder (pressure 1 to 1,2 bar) Ref. 554 019.



- Raise the jib.
- Remove the forward cover plat (Item 1).



- Remove the lower left dashboard cover (Item 2).



- Take the top off the brake fluid reservoir and fit the brake bleeder adapter (Item 3).

- Operate the bleed valve.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 214 pages

The full manual includes:

- All 214 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Manitou MT-X 732, MT-X 1030 ST Repair Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual