

EN



Operation & Maintenance Manual

NR14
NR16
NR16C
NR20
NR20H
NR25H

MCFE
Hefbrugweg 77,
1332 AM Almere,
The Netherlands

- 17) **PUMP IMAX (p)** = defines the maximum current of the pump controller. All the adjustment of the pump are defined in percentage of this value. The adjustment range is from 50% (level 0) to 100% (level 9).
- 18) **SLOW LIFT SPEED (p)** = pump speed reduction set by the potentiometer, the speed is put on scale for the programmed coefficient. The function is activated only when the option SLOW LIFT OPTION is selected ON.
- 19) **HYD SPEED COARSE (p)** = coarse power steering speed (from 0% to 100% Vbatt on the motor). The parameter is activated if the option PUMP MODE is programmed STANDARD PUMP.
- 20) **HYD SPEED FINE (p)** = fine power steering speed (it is added a value from 0% to 10% Vbatt to the coarse speed). The parameter is activated if the option PUMP MODE is programmed STANDARD PUMP.
- 21) **HYDRO COMPENS (p)** = compensation for power steering. The parameter is activated if the option PUMP MODE is programmed STANDARD PUMP.
- 22) **4TH SPEED COARSE (p)** = n° 4 pump speed coarse regulation. The parameter is activated if the option CUTBACK INPUT #1 is programmed OFF.
- 23) **4TH SPEED FINE (p)** = n° 4 pump speed fine regulation. The parameter is activated if the option CUTBACK INPUT #1 is programmed OFF.
- 24) **4TH SPEED COMP. (p)** = n° 4 pump speed compensation. The parameter is activated if the option CUTBACK INPUT #1 is programmed OFF.
- 25) **3RD SPEED COARSE (p)** = n° 3 pump speed coarse regulation. The parameter is activated if the option CUTBACK INPUT #2 is programmed OFF.
- 26) **3RD SPEED FINE (p)** = n° 3 pump speed fine regulation. The parameter is activated if the option CUTBACK INPUT #2 is programmed OFF.
- 27) **3RD SPEED COMP. (p)** = n° 3 pump speed compensation. The parameter is activated if the option CUTBACK INPUT #2 is programmed OFF.
- 28) **2ND SPEED COARSE (p)** = n° 2 pump speed coarse regulation.
- 29) **2ND SPEED FINE (p)** = n° 2 pump speed fine regulation.
- 30) **2ND SPEED COMP. (p)** = n° 2 pump speed compensation.
- 31) **1ST SPEED COARSE (p)** = n° 1 pump speed coarse regulation.
- 32) **1ST SPEED FINE (p)** = n° 1 pump speed fine regulation.
- 33) **1ST SPEED COMP. (p)** = n° 1 pump speed compensation.

2.12 OPERATION ENVIRONMENT

Temperature:

Operation		-35°C - +55°C
Storage		-40°C - +70°C

Humidity		100% condensing according to IEC 68-2-30, Db
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2.13 COOLING

External cooling..... Contact cooling to metal plate or frame

Isolation 500VAC according to prEN 1175-1

2.14 EMC

Immunity: According to prEN50081-2

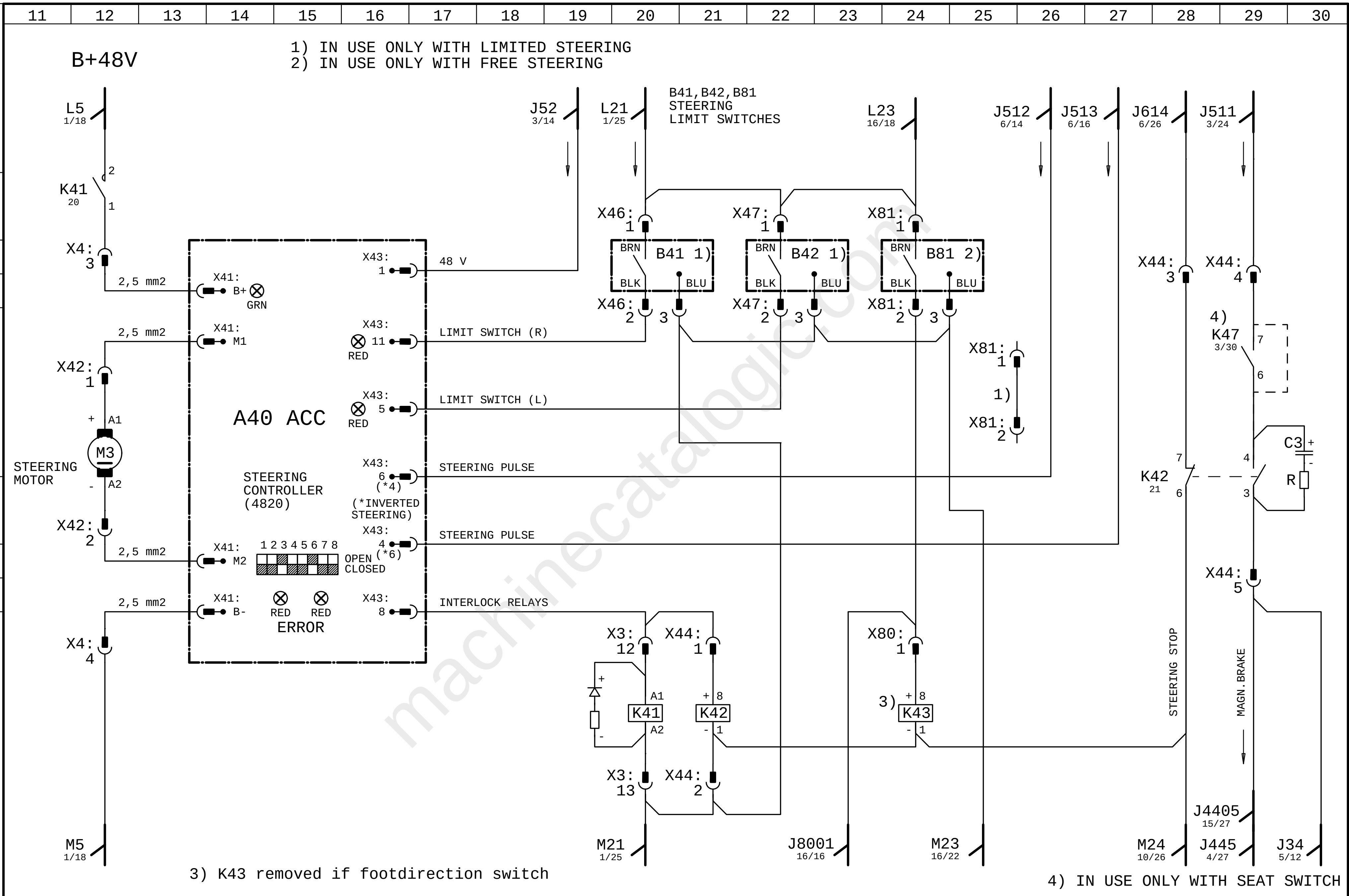
Emmission: According to prEN50082-2

CAT

Controller: Zapi C1 Combi 48V 350A+350A
 Program version: C1S RO1.13
 Zapi's serial number from: 9190 1067

Rev. 1
 Date 7.12.2001

	TRUCK TYPES:											NOTE
	NR16C/NR16/NR20H/ NR20/NR25/NR25H	NR14 HYDR.BRAKE	NR14 NO BRAKE		NT12				SLOW SPEED			
MAIN MENU/ PARAMETER CHANGE:												
ACCELERATION	8	8	8		8							
CUTBACK SPEED 1	0	0	0		0							
CUTBACK SPEED 2	0	0	0		0				1			
BRAKE CUTBACK	0	0	0		0							
TRACTION IMAX	9	9	9		9							do not change
INVERS. BRAKING	4	4	7		6							
RELEASE BRAKING	5	4	4		6							
PEDAL BRAKING	4	4	9		9							
HYDRO TIME	0	0	0		0							
WEAK DROPOUT	5	5	5		5							
CREEP SPEED	1	0	0		1							
PLUG CURRENT	5	5	5		5							
BRAKING MODUL	4	4	4		4							
COMPENSATION	5	5	5		5							not used
PUMP ACCELER. DELAY	3	3	3		3							
PUMP DECELER. DELAY	3	3	3		3							
PUMP IMAX	9	9	9		9							do not change
SLOW LIFT SPEED	9	9	9		5							
HYD. SPEED COARSE	0	0	0		0							
HYD. SPEED FINE	0	0	0		0							
HYDRO COMPENS.	0	0	0		0							
4TH SPEED COARSE	0	0	0		0							
4TH SPEED FINE	0	0	0		0							
4TH SPEED COMP.	0	0	0		0							
3RD SPEED COARSE	0	0	0		0							
3RD SPEED FINE	0	0	0		0							
3RD SPEED COMP.	0	0	0		0							
2ND SPEED COARSE	0	0	0		0							
2ND SPEED FINE	0	0	0		0							
2ND SPEED COMP.	0	0	0		0							
1ST SPEED COARSE	0	0	0		0							
1ST SPEED FINE	0	0	0		0							
1ST SPEED COMP.	0	0	0		0							
CONFIG MENU/ SET OPTIONS:												
HOUR COUNTER	RUN	RUN	RUN		RUN							do not change
BATTERY CHECK	ON	ON	ON		ON							do not change
RELEASE BRAKING	ON	ON	ON		ON							do not change
ANTI ROLLBACK	ON	ON	ON		ON							do not change
MAIN CONTACTOR	PRE	PRE	PRE		PRE							do not change
CUTBACK INPUT #1	OFF	OFF	OFF		ON							do not change
SLOW LIFT INPUT	ON	ON	ON		OFF							do not change
CUTBACK INPUT #2	OFF	OFF	OFF		OFF				ON			do not change
HYDRO INPUT	OFF	OFF	OFF		OFF							do not change
PUMP MODE	STA	STA	STA		STA							do not change
ADJUSTMENTS:												
SET LIFT MIN./ MAX.	0/5V	0/5V	0/5V		0/5V							volts
BATTERY VOLTAGE	Ubat	Ubat	Ubat		Ubat							do not change



Full Version Available

Caterpillar NR20H Reach Truck Operator Manual (WHOMM0031)

Caterpillar NR20H Reach Truck operator manual, covers controls, safe operation, battery handling, and daily checks. Downloadable PDF format.

[VIEW THE FULL MANUAL](https://machinecatalogic.com/caterpillar-nr20h-reach-truck-operator-manual-whomm0031/)

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