



Operation & Maintenance Manual

NR14K

NR14KE

NR14XE

NR16K

NR16KN

NR20K

NR25KH

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7 PEDAL BRAKING

- ANALOG: the mechanical brake pedal has a switch and a potentiometer installed. When the accelerator is released and the pedal brake is pushed the inverter performs an electrical braking whose intensity is proportional to the brake pedal potentiometer. The minimum intensity is established by the "Release braking" parameter, when the brake pedal is slightly pressed (brake switch close but brake potentiometer at the minimum). The maximum intensity is established by the "Pedal braking" parameter when the brake pedal is fully pressed (brake potentiometer at the maximum). In the middle positions, the electrical braking intensity is a linear function between minimum and maximum intensity.
- DIGITAL: The truck does not have a potentiometer installed on the mechanical brake pedal, but only a microswitch; when the accelerator pedal is released and the brake pedal is pushed (brake switch closed), the inverter performs an electrical braking following "Pedal braking" parameter.

8 SET TEMPERATURE

- DIGITAL: a digital (ON/OFF) motor thermal sensor is connected to F6 input.
- ANALOG: an analog motor thermal sensor is connected to F6 (the curve can be customized on a customer request).
- NONE: no motor thermal sensor switch is connected.

SUBMENU "ADJUSTEMENT"

- 1 SET POT BRK MIN: records the minimum value of braking pedal potentiometer when the braking pedal switch is closed; the procedure is similar to the "Program Vacc" function (see chapter 5.4). This procedure must be carried out only if the "Pedal braking" option is programmed as "Analog".
- 2 SET POT BRK MAX: records the maximum value of braking pedal potentiometer when the braking pedal is fully pressed; the procedure is similar to the "Program Vacc" function (see chapter 5.4). This procedure must be carried out only if the "Pedal braking" option is programmed as "Analog".
- 3 SET BATTERY TYPE: selects the nominal battery voltage;
- 4 ADJUST BATTERY: fine ajustement of the battery voltage measured by the controller.
- 5 ADJUSTMENT #04: this parameter determines the motor temperature level at which the "Motor temperature" alarm is signalled. The range is from 70°C to 160°C with 10°C steps. This parameter must be adjusted only if the "Set temperature" (menu "Set option") parameter is programmed "Analog".

CAT Rev. 11
Controller: ZAPI AC-2 PUMP INVERTER 48V 350A Date 15.02.05
Program version: ACRO0.16
Zapi's serial number from:

CONFIG MENU

SET MODEL NOT AVAILABLE

SET OPTIONS

HOURLY COUNTER	RUNNING
BATTERY CHECK	OFF
SET TEMPERATURE	ANALOG

ADJUSTMENTS

SET BATTERY TYPE	V	48
ADJUST BATTERY	V	BATTERY VOLTAGE
THROTTLE 0 ZONE	%	11
THROTTLE X POINT	%	63
THROTTLE Y POINT	%	36
ADJUSTMENT #04	°	120
ADJUSTMENT #03	°	55

MAIN MENU

PARAMETER CHANGE

ACCELER. DELAY	0	1	2	3	4	5	6	7	8	9
DECELER. DELAY	0	1	2	3	4	5	6	7	8	9
MAX SPEED UP	Hz	110								
MIN SPEED UP	Hz	0								
MAXIMUM CURRENT	0	1	2	3	4	5	6	7	8	9

CAT Rev. 9
Controller: ZAPI AC-2 TRACTION INVERTER 48V 3 Date 15.02.05
Program version: AC2R00.16
Zapi's serial number from:

CONFIG MENU

SET MODEL

CONNECTION	1	2	5	6	9
	SICOS	TR	PU	EPS	RIO

SET OPTIONS

HOUR COUNTER	RUNNING
BATTERY CHECK	ON
CUTBACK MODE	ABSENT
HYDRO KEY ON	OFF
STOP ON RAMP	OFF
AUX OUTPUT #1	BRAKE
PEDAL BRAKING	DIGITAL
SET TEMPERATURE	ANALOG

ADJUSTMENTS

SET BATTERY TYPE	V	48
ADJUST BATTERY	V	BATTERY VOLTAGE
THROTTLE 0 ZONE	%	7
THROTTLE X POINT	%	63
THROTTLE Y POINT	%	36
ADJUSTMENT #04	°	120
ADJUSTMENT #03	°	35
ADJUSTMENT #02		3
ADJUSTMENT #01		3

MAIN MENU

PARAMETER CHANGE

ACCELER. DELAY I	0	1	2	3	4	5	6	7	8	9
ACCELER. DELAY II	0	1	2	3	4	5	6	7	8	9
ACCELER. DELAY III	0	1	2	3	4	5	6	7	8	9
RELEASE BRAKING I	0	1	2	3	4	5	6	7	8	9
RELEASE BRAKING II	0	1	2	3	4	5	6	7	8	9

Full Version Available

Caterpillar NR14XC Reach Truck Operator Manual (WHOMM0029)

Caterpillar NR14XC Reach Truck operator manual, covers safe operation, controls, inspections, and charging. Searchable PDF download.

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