



Operation & Maintenance Manual

NPV20N

NPV25NH

NO20NT

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12.4 Function configuration

We will describe two configurations depending on the MDI-PRC setting (see 12.4.1.15):

- 1) STANDARD version (MDI-PRC Absent)
- 2) MDI-PRC version (MDI-PRC Present). In this case the drive control communicates with a MDI-PRC through the CAN BUS.

They have different list of settings (the Standard version has a reduced settings list). In the next we refer to a complete settings that is the sum of the settings list of both the above configurations. When the setting refers to only one configuration, it will be specified in the description.

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SET POT BRK MIN	0,4	0,4	0,4	0,4					0,4	0	not in use
SET POT BRK MAX	4,5	4,5	4,5	4,5					4,5	0	not in use
MOTOR OVERTEMP	120	120	120	120					120	0	Factory setting
SET MOTOR TEMP.	0	0	0	0,0					0	0	Adjustment for the motor temperature sensor
SET BATTERY TYPE	24V	24V	24V	24V					24V	0	Factory setting
ADJUST BATTERY	0	0	0	0,0					0	0	Adjustment for the battery voltage measurement
THROTTLE 0 ZONE	13	13	13	13,0					13	0	Adjust throttle dead band
THROTTLE X POINT	54	54	54	54,0					54	0	Adjust throttle curve X point
THROTTLE Y POINT	25	25	25	25,0					25	0	Adjust throttle curve Y point
ADJUSTMENT #1	5	5	5	5,0					5	0	Adjust BDI upper curve
ADJUSTMENT #2	8	8	8	8,0					5	0	Adjust BDI lower curve
LOAD HM FROM MDI	OFF	OFF	OFF	OFF					OFF	0	Factory setting
CHECK UP DONE	OFF	OFF	OFF	OFF					OFF	0	Set to ON when periodic maintenance is done
CHECK UP TYPE	0	0	0	0					2	0-3	OP1= CHECK UP NEEDED warning on the hand set and MDIPRC after 300 hours OP2= Equal to OPTION#1 but Speed reduction after 340 hours OP3= Equal to OPTION#2 but the truck definitively stops after 380 hours

ATTENTION!

**REMEMBER PROGRAM VACC !!!
(ACCELERATOR CALIBRATION)**

LIMIT DEVICE	ON									ON	ON/OFF	Steering angle electrical limitation
DIRECTION GAUGE	OP #1									OP #1		factory setting
AUX FUNCTION 1	0									0		factory setting
DIAG MOTOR TEMP	ON									ON		factory setting
AUX OUTPUT #3	0									0		factory setting
TILLER DEAD ZONE	OFF									OFF	ON/OFF	When set to ON and recycled the key --> there are 20 degrees dead zone area.
SPAC CONFIG	OFF									0	0-1	Which type of traction controller is used on a truck. 0 = AC1-SSL, 1 = Combi AC
SET MODEL:												
SYSTEM CONFIG	1									2		factory setting
AUTO REQ TYPE	0									0		factory setting
CONNECTED TO	EPS									EPS		2 = traction, 6 = steering
MODEL TYPE	x									x		factory setting
ADJUSTMENTS:												
ADJUSTMENT #01	0									0		factory setting
SET CURRENT	0									0		factory setting
ADJUSTMENT #02	x									90		factory setting
ADJUSTMENT #03	x									x		factory setting
ADJUSTMENT #04	x									x		factory setting
SET BATTERY TYPE	24V									24V		factory setting
SET SAT. FREQ.	78 Hz									78Hz		factory setting
OVERSAT FREQ.	1 Hz									1Hz		factory setting
MAXIMUM SLIP	5,00 Hz									5Hz		factory setting
AUX VOLTAGE #1	x									x		factory setting
AUX VOLTAGE #2	x									x		factory setting
NO LOAD CURRENT	13 A									13A		factory setting
ZERO SP POT	x									x		teaching of the zero point of wheel
SET STEER 0-POS.	x									x		straight ahead adjustment
SET MIN FB POT	x									x		teaching of the maximum anti-clockwise angle
SET MAX FB POT	x									x		teaching of the maximum clockwise angle
SPECIAL ADJUST:												
SET TEMPERATURE	x									x		factory setting
HIGH ADDRESS	0									0		factory setting
DEBUG OUTPUT	15									15		factory setting
MAX SP SLOPE	9									9		factory setting
HARDWARE SETTINGS:												
MAXIMUM CURRENT	50 A									50A		factory setting
CAN BUS	PRESENT									PRESENT		factory setting
SET HI RESOL AD	1									1		factory setting

NPV20N, NPV25NH EPS ACO ALARM LIST

Alarm number	Alarm Name
06A01	High current
06A02	Power failure #1
06A03	Power failure #2
06A04	Power failure #3
06A05	Stby hi high
06A06	D line sensor ko
06A07	Q line sensor ko
06A08	Eeprom ko
06A09	Vmn not ok
06A10	High temperature
06A11	Data acquisition (during gain acq)
06A12	Logic failure #1
06A13	Logic failure #2
06A14	Logic failure #3
06A15	Logic failure #4
06A16	KS Closed
06A17	KM Closed
06A18	KS Open
06A19	KM Open
06A21	Micro slave
06A22	SP out of range
06A23	FB out of range
06A24	Micro slave ko
06A27	Gain eeprom ko
06A28	Can bus ko
06A38	Position error
06A39	Serial error #1
06A40	Micro slave #4
06A41	Slave comm error
06A42	No sync (slave error)
06A43	Current gain
06A44	Clock pal not ok (slave)
06A45	Steer sensor ko
06A46	Jerking Fb
06A47	Fb pot locked
06A48	Motor temperat
06A49	Motor locked
06A51	Micro slave #3
06A53	Input error #1

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Caterpillar NPV25NH Pallet Truck Operator Manual (SWHPU-00112)

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