

# User's Guide (with part lists)



## **DM-TRAC 1201**

*Multi-purpose Implement carrier*

Version 1.1 Dec 2000

Please read and store this book carefully!

Dealer : \_\_\_\_\_

Customer : \_\_\_\_\_

Serial no. : \_\_\_\_\_

# Introduction

In this operating manual we give you, the owner/user of the NIMOS implement carrier type DM-Trac, the most important prescriptions with respect to operation and maintenance.

You are strongly advised to read this entire operation manual before using the DM-Trac for your own and others safety and the lifetime of your implement carrier.

Regarding safety rules we want to bring to your attention the chapters concerning safety, employment and maintenance.

You will understand that we can not be hold responsible for damage caused by improper or incompetent use, or when one does not follow the instructions of this manual.

# Index

<b>1</b>	<b>GENERAL DESCRIPTION.....</b>	<b>5</b>
1.1	MANUFACTURER OF NIMOS PRODUCTS .....	5
1.2	USERS CONDITIONS .....	5
	<i>Technical dates DM-Trac 1201.....</i>	<i>6</i>
	<i>Type print DM-Trac 1201 .....</i>	<i>6</i>
<b>2</b>	<b>SAFETY INSTRUCTIONS.....</b>	<b>7</b>
2.1	DESCRIPTION OF SYNBOLS.....	8
<b>3</b>	<b>EMPLOYMENT .....</b>	<b>10</b>
3.1	CONTROLS AND INSTRUMENTATION IN THE CABIN .....	11
3.2	.....	12
3.2	.....	13
3.2	.....	14
3.2	.....	14
	DESCRIPTION OF SOME OPERATING CONTROLS .....	15
	<i>A. Starting the engine .....</i>	<i>16</i>
	<i>B. Operating parking brake and emergency stop.....</i>	<i>16</i>
	<i>C. Operating the John-Deere engine.....</i>	<i>16</i>
	<i>D. Operating heater/air-conditioning .....</i>	<i>17</i>
	<i>E. Fuses DM-Trac .....</i>	<i>18</i>
3.3	INSTALLATION INSTRUCTION FOR IMPLEMENTS .....	18
<b>4</b>	<b>MAINTENANCE INSTRUCTIONS .....</b>	<b>19</b>
4.1	MAINTENANCE DIAGRAM DM-TRAC .....	19
4.2	DAILY MAINTENANCE .....	22
4.3	PART-LIST .....	22

Appendix I:	Hydraulic diagram carrier
Appendix II:	Hydraulic diagram driving system
Appendix III:	Hydraulic diagram ground pressure control
Appendix IV:	Hydraulic diagram tempomat
Appendix V:	Electrical diagram
Appendix VI:	Electrical diagram E3 (hydraulic)
Appendix :VII	Maintenance lists DM-Trac

# 1 GENERAL DESCRIPTION

## 1.1 Manufacturer of NIMOS products

DROST MACHINES B.V.

Postbus 96

Utrechtsestraatweg 204A

Tel: (31) (0)317 - 619017

3910 AB RHENEN

3911 TX RHENEN

Fax: (31) (0)317 - 614447

- The Netherlands

- The Netherlands

E-mail: info@nimos.nl

## 1.2 Users conditions

The NIMOS DM-Trac is a multi-purpose implement carrier. Because of the unique flexible construction of the DM-Trac many applications are available.

The NIMOS DM-Trac can be used for e.g.:

- weed brushing
- gras mowing
- winter service
- transport
- wood shredding etc.

Because of all these possibilities the NIMOS DM-Trac can be used throughout the year.

More over the **NIMOS DM-Trac is equipped with:**

- hydrostatic driving with servo control;
- 'automatic sper-differential' Twin-Lock-system;
- noiseless, vibration-less, open view in the cabin, (air-conditioning, refrigerator easy optional);
- high transport speed (depending to country regulations and tires);
- it is an articulated carrier and therefore very manoeuvrable;
- environment friendly powerful Yanmar diesel engine.

## Technical dates DM-Trac 1201

<b>Type</b>	<b>DM-Trac 1201</b>
<b>Engine</b>	John-Deere 4045TF250 93 KW (125 HP) 2400 rpm Diesel engine 4.5 l Turbo
<b>Cabin</b>	One person cabin with toned glass and parallel screen wiper, anti-vibration mountings. Noiseless over pressure cabin with comfortable seat (DS85) and adjustable steering column, heating (water), hydraulic control panel with joystick, big mirrors (also inside) and radio.
<b>Dashboard</b>	Fuel meter, rpm meter, water temperature meter and warning lights for max hydraulic oil, max engine temperature, engine start, low fuel level, oil, battery and lights.
<b>Lights</b>	Complete road lights inclusive rotation light
<b>Battery</b>	12 V./ 180 Ah
<b>Alternator</b>	70 Ah
<b>Drive</b>	Hydrostatic drive with piston pump 115 cc (0-30 km/h with standard tires) and 2-pedal with servo for forward-neutral-backward Continue four wheel drive with differential lock for max traction at all speeds
<b>Steering</b>	Hydraulic with priority valve
<b>Brake</b>	Parking brake; mounted at front wheels (multi-disc brake) Working brake; four wheel hydrostatic
<b>Hydraulic</b>	All quick-couplings flat-face, high pressure hoses multi-seal and all other couplings with special seals. Suction, return filtration and oil-cooler
<b>PTO pump</b>	2x 65 l/min 245 bar
<b>Hydraulic tank</b>	140 litre
<b>Fuel tank</b>	130 litre
<b>Frame</b>	Steel frame, articulated construction and pendulating with stabilisator.
<b>Frontlift</b>	1200 kg Adjustable Cat-1 lift with working hydraulic and 1x double acting
<b>Painting</b>	3-stage painting, lead-free Nimos orange/grey (cabin roof white)
<b>Dimensions</b>	3643 x 1600 x 2284 3020x1290x2092mm with 31x15,5 XTRA tyres
<b>Tires (standard)</b>	500 / 50 x 17
<b>Wheelbase</b>	1800 mm
<b>Track width</b>	1600 mm
<b>Inside radius</b>	1950
<b>Net weight</b>	2620 kg
<b>Tool box LxWxH</b>	980x940x170

## Type print DM-Trac 1201

**NIMOS**  
DROST MACHINES B.V.  
UTRECHTSESTRAATWEG 204A · 3911 TX RIJNEN HOLLAND  
TEL. 0317 - 61 90 17 TELEFAX 0317 - 61 44 47

Goedkeuringsnummer

Ident. nr. **XL9DMTRAC.0135...**

Type	<b>DM-Trac 1201</b>	Maximum massa	<b>5290</b> kg
Bouwjaar	<b>20xx</b>	Max. aslast voor	<b>2690</b> kg
Eigen massa	<b>2890</b> kg	Max. aslast achter	<b>2600</b> kg
Nom. vermogen	<b>93</b> kW	Max. kopp. druk	<input type="text"/> kg

Text	Translation
Ident. nr.	serial number;
Type	type;
Bouwjaar	year of production;
Eigen massa	netto weight;
Nom. vermogen	maximum power;
Maximum massa	total weight;
Max. aslast voor	Max weight front axle;
Max. aslast achter	Max weight rear axle.

## 2 SAFETY INSTRUCTIONS

Careful operation is the best insurance against accidents. Read this manual thoroughly and inform every operator who is working with the machine. Ensure yourself to know how to operate this machine. Don't use the machine for other purposes than described in this manual.

When you employ and maintain this machine following the instructions in this manual, you will find out that you have made a good investment.

### Safety first:

- ☞ **WARNING** Hazards or unsafe practices which **COULD** result in death or severe personal injury.
- ☞ **CAUTION** Hazards or unsafe practices which **COULD** result in minor personal injury or damage to the machine.
- IMPORTANT** Indicates that equipment or property damage could result if instructions are not followed.
- NOTE** Gives helpful information.

### Safe operation

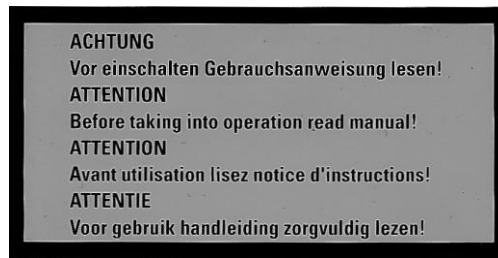
☞ **IMPORTANT!** The responsibility for changes, respectively modifications of the machine is not for the manufacturer, but for the one who has carried them out.

- Persons younger than 16 years, are not allowed to use the machine (according to country regulations).
- Maintenance and cleaning is only permitted, when the engine is not running.

☞ **WARNING!** Be sure that the lifted platform is completely open against the gummies so that the platform can't come down during inspection, maintenance or repair.

- When leaving the cabin, one always needs to stop the engine, engage the parking brake and remove the keys from the starting switch.
- Before coupling implements, one has to consult the coupling and operation instructions.
- Take care that there are no people in the direct neighbourhood of the machine when you are steering with the carrier.
- The maximal allowed transverse slope during operation of the machine is 20 degrees in both directions or consult the factory when using other tires.
- The driver needs to be well-informed about the operating and maintenance instructions of the machine.

## 2.1 Description of symbols



**CAUTION!**  
Before taking in operation read manual!



**IMPORTANT!**  
During fuelling is smoking and open fire prohibited! Danger of fire or explosion!



**WARNING!**  
Passengers transport in the platform prohibited! Danger of deathly injuries.



**CAUTION!**  
Hot parts! Danger of burning your body!





**WARNING!**  
Be sure that the lifted platform is completely open against the gummies so that the platform can't come down during inspection.



**CAUTION!**  
Rotating parts! Keep at a distance when engine is running.



**WARNING!**  
Constriction danger. Keep distance from the pivot point

### 3 EMPLOYMENT

The DM-Trac is designed for several services. The DM-Trac can both be employed for work related to fields and on public roads (mind the max. speed for slow traffic).

The NIMOS DM-Trac may be employed for weed brushing, sweeping, grass mowing, leaf blowing, wood shredding and winter services. This is only possible when the implements fulfil the technical specifications given by the NIMOS manufacturer. Any other application can be a danger to the driver and persons in the direct neighbourhood.

- Persons younger than 16 years, are not allowed to use the machine (according to country regulations).
- The driver needs to be well-informed about the operating and maintenance instructions of the machine.
- The danger zone must be well surveyable for the driver all the time. For good view, it is necessary that windows and mirrors are clean and that the mirrors are well adjusted.
- Before coupling implements, one has to consult the coupling and operation instructions.

☞ **WARNING!** Take care that there are no people in the direct neighbourhood of the machine when working and steering with the carrier.

☞ **CAUTION!** The maximal allowed transverse slope during operation of the machine is 20 degrees in both directions. When working on slopes or near obstacles, one has to be extra careful.

- In case the DM-Trac is equipped with a front and/or rear lift in which implements can be carried, one has to ensure oneself of the following points:
  1. Engaging the lift during the coupling of implements becomes a danger to the one who couples the implement. Always stop the engine during coupling.
  2. The weight of the implement and the way of mounting it may not endanger the stability of the machine.

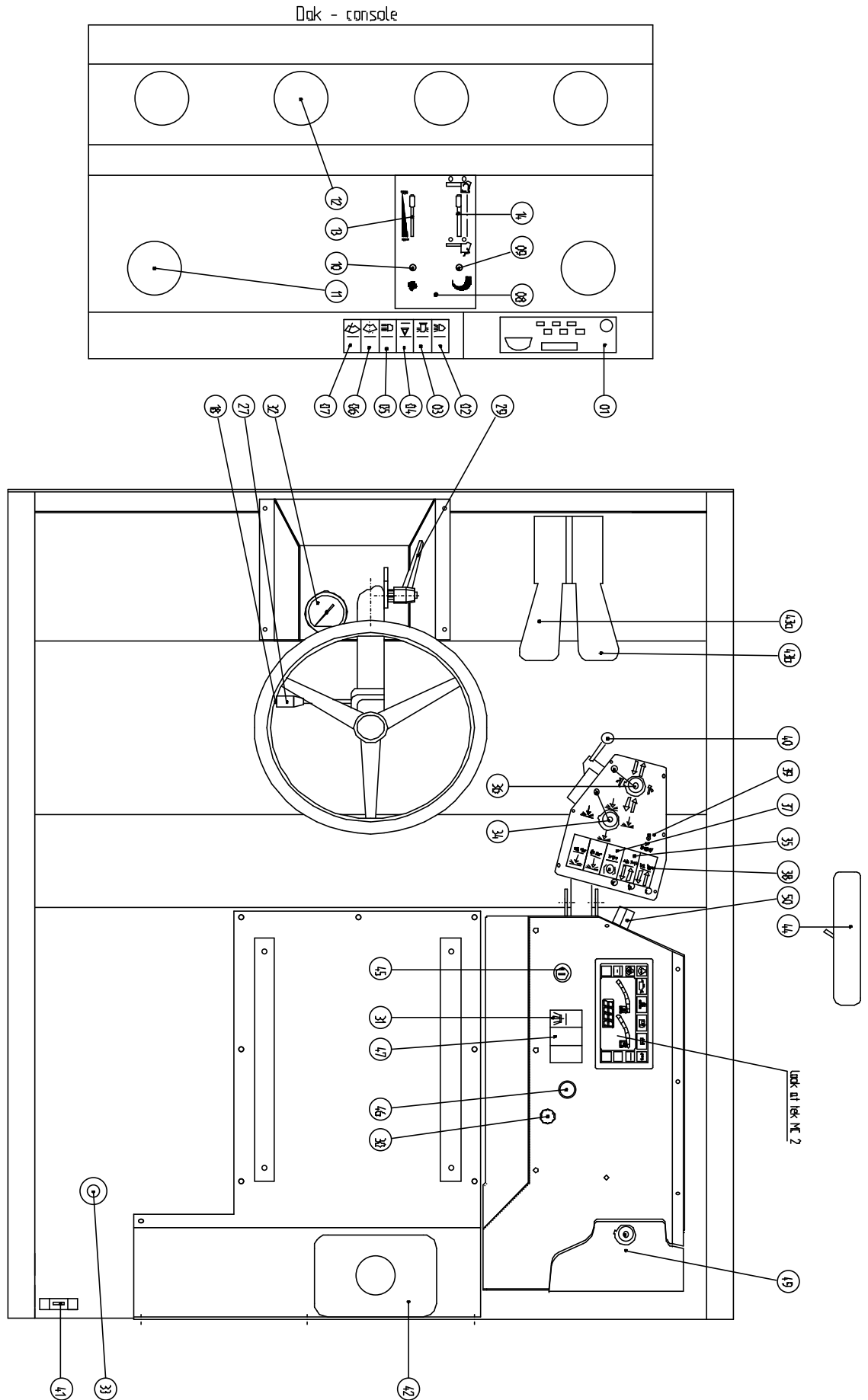
### 3.1 Controls and instrumentation in the cabin

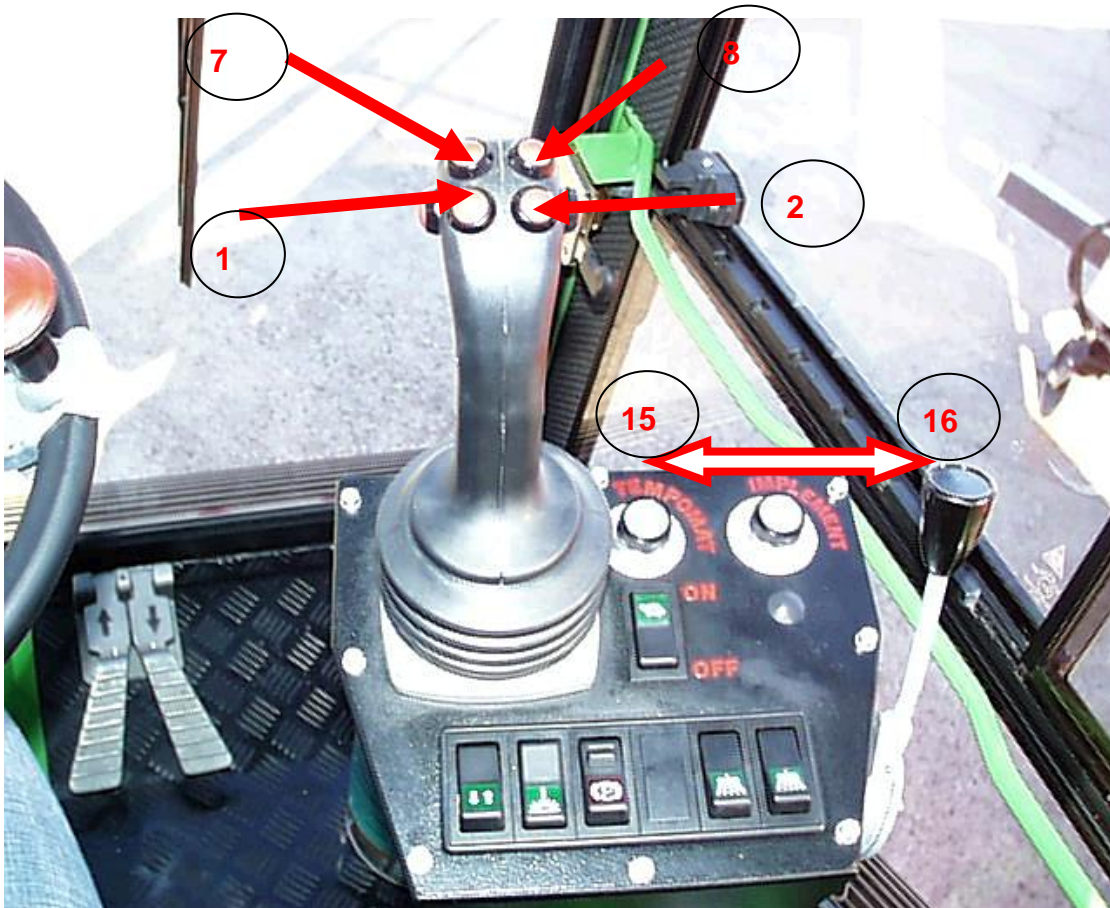
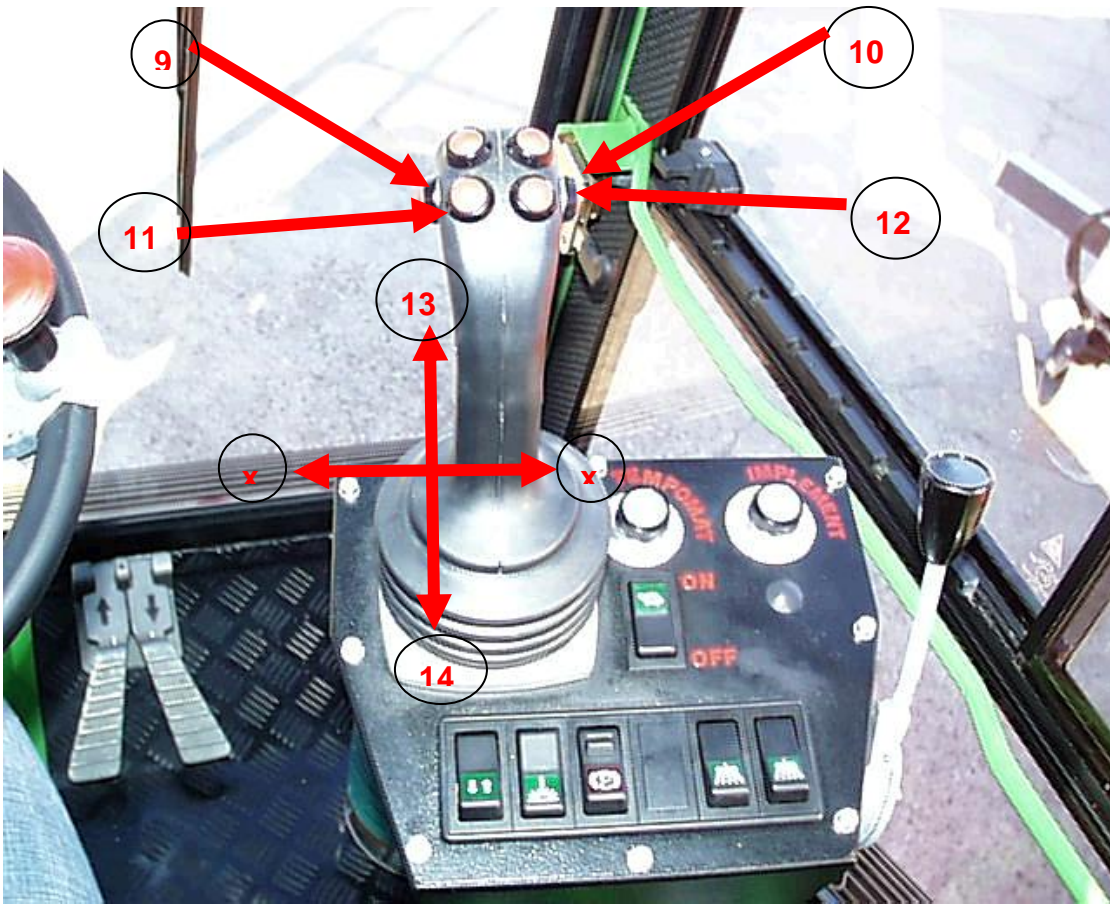
No.	Description	No.	Description
1.	radio	27.	direction indicator switch
2.	switch work-light (front)(optional)	28.	-
3.	switch rotary-light	29.	handle adjust steering column
4.	switch alarm-lights	30.	cigarette lighter (optional)
5.	switch road-lights	31.	switch PTO
6.	switch windscreen washer	32.	ground pressure meter
7.	switch windscreen wiper	33.	Turn switch valve tempomat
8.	control lamp air-conditioning on	34.	4 position switch (option)
9.	turn-switch/thermostat airconditioning	35.	switch ground-pressure control on/off (option)
10.	turn-switch ventilator 4-ways	36.	4 position switch
13.	lever temp. control heater	37.	switch parking brake
14.	lever re-circulation	38.	-
15.	RPM/hour counter	39.	switch tempomat on/off
16.	engine water temperature gauge	40.	gas throttle
17.	fuel gauge	41.	-
18.	horn button	42.	reservoir front shield washer
19.	warning lamp max. engine temp.	43a.	foot-pedal backwards
20.	control lamp engine oil pressure	43b.	foot-pedal forwards
21.	control lamp charging current	44.	cabin light
22.	direction indicator lamp	45.	glow-starting switch
23.	control lamp start engine	46.	-
24.	warning lamp fuel level	47.	-
25.	warning lamp air filter	48.	-
26.	warning lamp max oil temp.	49.	Refrigerator

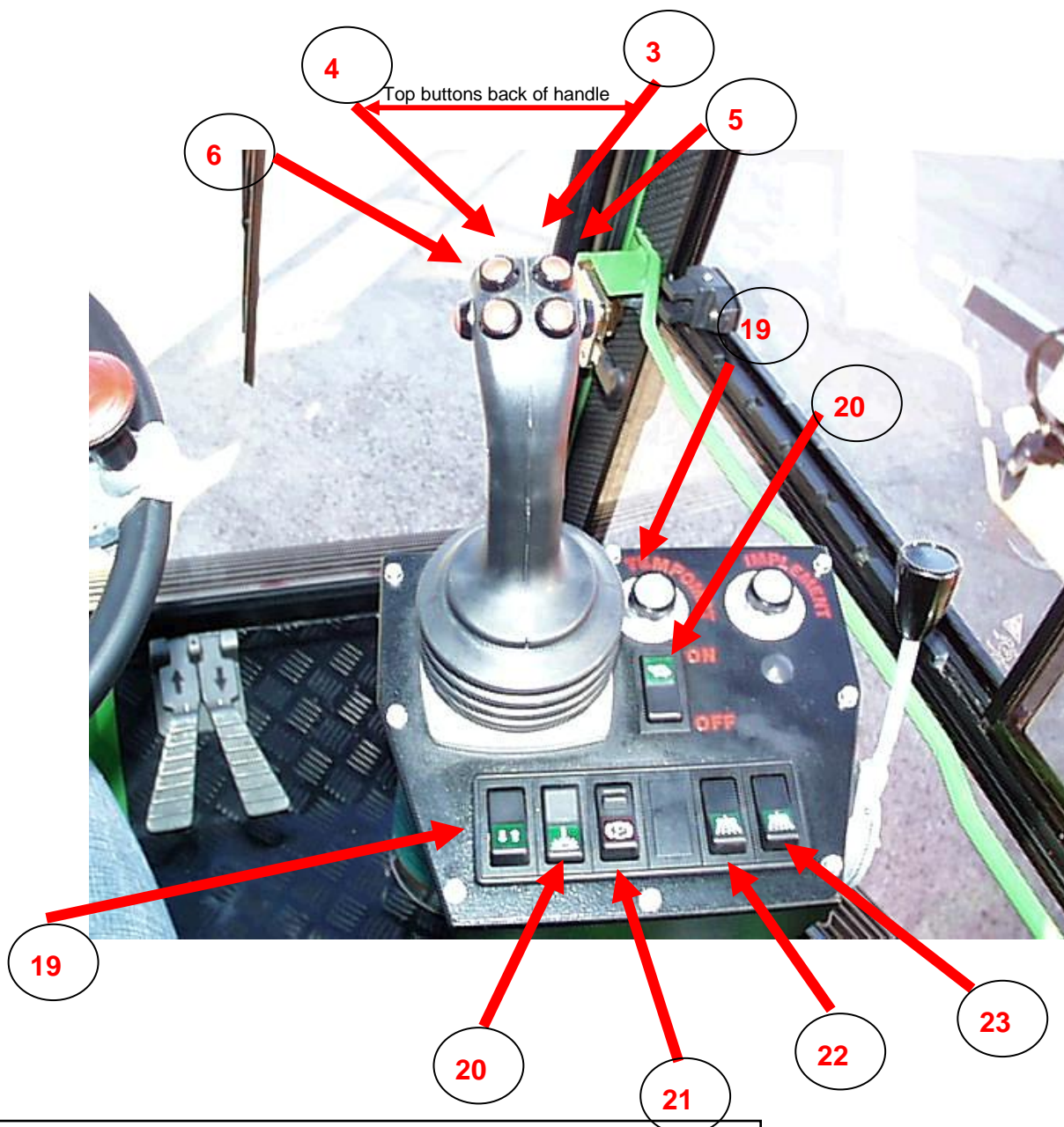
#### FIRST:

- A. When control lamps 19 lights up, immediately stop the engine and inspect.
- B. When control lamp 26 goes on, stop driving and switch off implements. Let the diesel engine run until the hydraulic oil has been cooled by means of the oil cooler, i.e. until the control lamp goes out.  
**IMPORTANT!** Check whether the fan of the hydraulic oil cooler is running
- C. Maximum cooling water temperature is 105°C. (19)

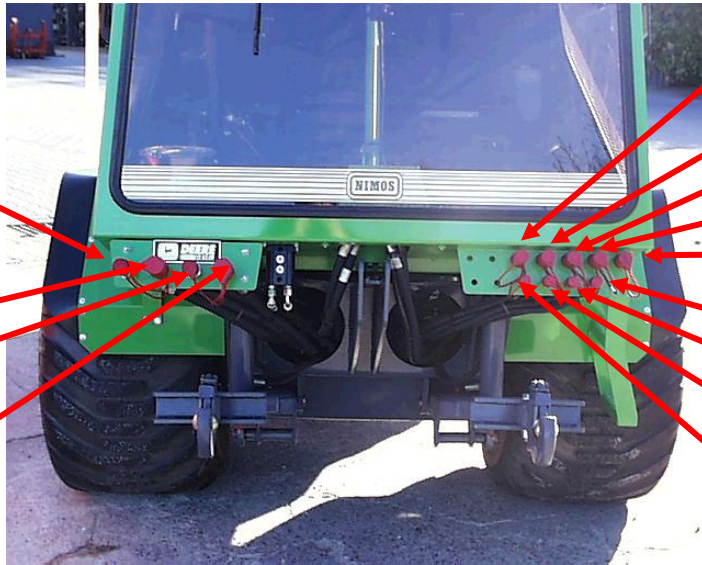
See figures on the next 3 pages.







- |    |                                    |
|----|------------------------------------|
| 1  | pressure (single acting)           |
| 2  | pressure (single acting)           |
| 3  | pressure (single acting)           |
| 4  | pressure (single acting)           |
| 5  | pressure (double acting)           |
| 6  | pressure (double acting)           |
| 7  | pressure (double acting)           |
| 8  | pressure (double acting)           |
| 9  | no function                        |
| 10 | no function                        |
| 11 | all up                             |
| 12 | all down                           |
| 13 | front hitch down                   |
| 14 | front hitch up                     |
| 15 | 0-65 litre on quick coupling man   |
| 16 | 0-65 litre on quick coupling woman |
| 17 | adjustable speed tempo mat         |
| 18 | tempo mat on / off                 |
| 19 | single or double acting            |
| 20 | double acting rear                 |
| 21 | parking brake                      |
| 22 | PTO left (front)                   |
| 23 | PTO right (front and rear)         |



23/16

23/15

22/16

22/15

3

4

2

1

Leak

7

8

6

5



23/16

23/tank

20

20

**Description of some operating controls**

**A. Starting the engine**

The engine can be started by means of the starting switch.

**CAUTION!** Before starting the machine, one has to check whether the parking brake (switch 37) is engaged and see if the PTO-pump is in the neutral (switch 31) position (see drawing on page 14) .

The starting switch has four positions, namely:

- 0 = off
- 1 = not connected
- 2 = contact on
- 3 = starting

**B. Operating parking brake and emergency stop**

By means of switch 37 (see drawing operating controls) the parking brake is controlled electrically. The brake is engaged by pressing switch 37. To disengage the parking brake, unlock switch 37 and switch it off. The parking brake is automatically engaged when you stop the engine.

**CAUTION!** Do not engage the parking brake during driving. Only in case the machine can not be controlled anymore by the driving pedals the parking brake may be engaged as an EMERGENCY BRAKE! The driver must then take into account that he can be thrown forward because of the sudden braking.

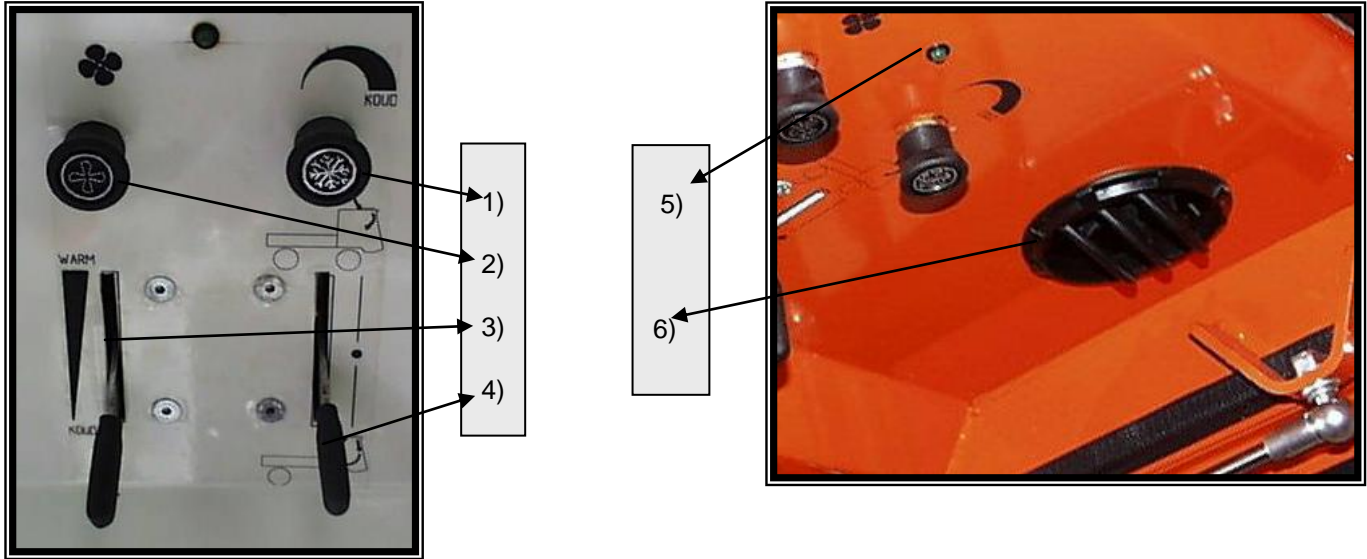
**C. Operating the John-Deere engine**

Items to be observed	Details and troubles which may arise if the instructions are neglected
Be sure to conduct running-in operation while your engine is still new.	Application of heavy loads may shorten the life of the engine while it is still new.
Be sure to warm-up the engine.	Warm-up the engine at idling speed for about 5 minutes after starting to permeate the lube oil to all parts of the engine. If the engine is not warmed up, there will be excessive wear of the moving parts.
Use fuel with a cetane value of over 45.	Inferior quality fuel can cause starting failure, and the engine will emit bluish white exhaust.
Use high quality lube oil.	Inferior quality lube oil will cause seizure of the piston liner, excessive wear of moving parts and other troubles. The engine's durability will also be lowered.
Be sure to replace the lube oil and lube oil filter element on a regular basis.	<ul style="list-style-type: none"> <li>• Use of old lube oil will make engine parts wear fast and cause engine troubles.</li> <li>• The oil pressure drops if the element is old or clogged with dust. This causes main bearing seizure and any dust in the bearing makes it wear faster.</li> </ul>
Replace cooling water every year.	Contaminated cooling water has a lower cooling efficiency, so the cooling water temperature is liable to rise too high. This causes engine seizure.
Prior to operation, always check the cooling water level in the sub tank. In addition, check the cooling water level in the radiator at least once a week.	If the cooling water runs short, the cooling water temperature will rise too high. This causes engine seizure.
Check and adjust the drive belt tension of the charging generator/fan.	An improper belt tension will either fail to transmit power satisfactorily or cause overheating. The belt will be damaged.
Do not use the starting motor run for more than 15 sec. continuously.	Continuous use of the starting motor for more than 15 sec. will damage the motor.



Please observe all caution labels that may be applied by the machine manufacturer.

#### D. Operating heater/air-conditioning



Number	Function
1	Temperature regulation air-conditioning
2	Fan speed switch (0-1-2-3)
3	Heater valve
4	Air-(re)circulation handle
5	Led airco on
6	Louver for re-circulation

#### Operating heater

- Put switch 3 in the desired position between 'hot' and 'cold'
- Turn switch 2 in the desired position 0 - 1 - 2 or 3

#### Operating air-conditioning

- Put switch 3 in the position 'cold' (the heater will not work)
- Turn switch 1 in the desired position to right
- Turn switch 2 in the desired position 0 - 1 - 2 or 3

When the temperature in the cabin is to warm, the green led (no 5) will light up so you can see that the airco is working and cooled air is coming in to the cabin.

You can choose to re-circulate the air in the cabin, or to bring fresh air from outside in the cabin by witch 4. In case of recirculation (for fast cooling or fast heating) also open the louver (no. 6) in the roof. After the cabin is on the desired temperature press handle (no 4) on fresh air and close louver (no 6).

Note: to use the over-pressure system, for keeping dust outside the cabin, put switch 4 in the position which brings fresh air from outside the cabin and close louver (no 6).

## E. Fuses DM-Trac

NIMOS DM-Trac		
NR:	FUSE	COMPONENTS
1	25A	lighting, worklight
2	25A	blinker, alarm lights
3	25A	oilcooler
4	25A	heater, airco, fridge
5	25A	extra implement
6	10A	dashboard instruments
7	25A	horn, reversing light and -alarm, rotation light
8	25A	starting relais, implement pump, parking brake, hydraulic
9	25A	windscreen washer, cigarettelighter, inside lighting, chair, radio
10	25A	whiper

### 3.3 Installation instruction for implements

#### **IMPORTANT! Take care of hydraulic quick couplings!**

- a. Before connecting the quick couplings, one always has to clean them thoroughly and connect the dust plugs and dust caps with each other!
- b. When discoupling, immediately clean the dust plugs and dust caps thoroughly and put them at the quick couplings.

#### **Front lift**

The maximum allowed load is 600 kg in the front-lifts hooks.

**CAUTION!** Please keep in notice, that the further an implements gravity-point is away from the front-lifts hooks, the more weight is on the front-lift, what can endanger the stability of the machine.

The front lift is operated by the joystick (no 36) in the command-arm. Moving the joystick backward the front lift is lifted. Moving the joystick forward, the lift is lowered. In the forward position (lowering) the front lift is moving free (floating). This function is hold by the electrical system till you move the lever backwards (lifting).

## 4 MAINTENANCE INSTRUCTIONS

- Maintenance and cleaning is only permitted, when the engine is not running.
- The responsibility for changes, respectively modifications of the machine is not for the producer, but for the one who has carried them out.

☞ **WARNING!** Be sure that the tipped platform is completely open against the gummies so that the platform can't come down during inspection, maintenance or repair.

- Tools are not allowed to remain in or on top of the machine. This may cause lasting damage to the machine or be a danger to persons in the direct neighbourhood during start up.
- The mechanic needs to be well-informed about the operating and maintenance instructions of the machine.

### 4.1 Maintenance diagram DM-Trac

Item	Article Code	Daily	Every month or Every 50 hrs.	Every 3 months or every 200 hrs.	Every 6 months or every 400 hrs.	Every year or every 1000 hrs.
Fuel level		Ⓒ				
Fuel filter element	20-1221			□	Ⓒ	
Lube. Oil engine	44-0306	Ⓒ	Ⓔ 1st time	Ⓔ 2nd time and there after		
Oil filter element	20-0918		Ⓔ 1st time		Ⓔ 2nd time and there after	
Cooling liquid	44-0903	Ⓒ				Ⓔ
Cooling ribs		Ⓒ				
Radiator fan		Ⓒ				
Adjust V-belt engine	20-1553 or 20-1507 (with airco)		Ⓒ 1st time	Ⓒ 2nd time and there after		
Adjust V-belt airco	20-1533		Ⓒ 1st time	Ⓒ 2nd time and there after		
Air filter engine	20-0642 or 20-0645 (501)	□			Ⓔ	
Air filter cabin (2)	20-0639		□		Ⓒ	
Battery liquid		Ⓒ				
Item	Article Code	Daily	Every month or Every 50 hrs.	Every 3 months or every 200 hrs.	Every 6 months or every 400 hrs.	Every year or every 1000 hrs.

Warning lamps	<b>16-1303</b>	© before operation				
Adjust the intake and exhaust valve clearance					©	
Fuel injection timing					©	
Fuel injection nozzle					©	
Fuel injection pump						©
Lighting		©				
Hydraulic oil level		©				
Hydraulic oil	<b>44-0309</b>					®
Fuel tank					□	
Parking brake			©			
Neutral position			©			
Instrument panel			©			
Tire pressure		©				
Hydraulic hoses and couplings			©			
Pivot point			©			
Hydraulic system					©	
Tighten wheel nuts	<b>38-1215</b>		©			
Suction / return filter element	<b>08-1885</b>				®	
Suction filter gear pump	<b>08-1812</b>				©	®
Filling cap / breathing filter	<b>08-4812</b>				®	
Ball joints doors cabin (4)	<b>32-1806</b>		<b>G</b>			
Frontlift (2)	<b>32-1803</b>		<b>G</b>			
Lift cilinders (2)	<b>32-1803</b>		<b>G</b>			
Steering cylinder(2)	<b>32-1803</b>		<b>G</b>			
Steering column(1)	<b>32-1803</b>		<b>G</b>			

- Ⓡ Replace
- Ⓢ Check
- Clean
- G** Grease

The in the maintenance diagram mentioned subjects may be carried out by:

- daily: driver and engineer
- first 50, every 200, 400 and 1000 hours: authorised engineer / NIMOS dealer.

## 4.2 Daily maintenance

Before operating your carrier, daily inspect the following subjects:

- Engine oil level.
- Hydraulic oil level.
- Dirt protection screen engine cooler.
- Dirt protection screen oil cooler
- Lighting.

### Contents:

Lube oil engine : John-Deere 4045TF250  
 Cooling liquid : 15 litre  
 Hydraulic system : 140 litre  
 Fuel : 130 litre

### Lubricants:

Engine oil : Total Rubia 4400 15W40  
 Cooling liquid : Total cooling liquid G 21  
 Grease : Multi grease class 2 (DIN 51818)  
 Hydraulic oil : Total Equivis ZS 46 (HVLP DIN 51524/3)

- The above mentioned lubricants are the lubricants with which the standard machines are filled. This is also mentioned at the filling openings by means of stickers.

## 4.3 Part-list

04-7510 - quick coupling 1/4 m leakless	1	06-0583 - hose nr .583	2
04-7512 - quick coupling 1/4 v leakless	1	06-0584 - hose nr .584	2
04-7514 - protection cap 1/4 m leakless	1	06-0585 - hose nr .585	2
04-7516 - protection cap 1/4 v leakless	1	06-0586 - hose nr .586	1
04-7582 - quick coupling 3/4 m leakless	1	06-0587 - hose nr .587	2
04-7584 - quick coupling 3/4 v leakless	1	06-0588 - hose nr .588	1
04-7586 - protection cap 3/4 m leakless	1	06-0589 - hose nr .589	1
04-7588 - protection cap 3/4 v leakless	1	06-0590 - hose nr .590	1
06-0008 - hose nr. 8	1	06-9905 - hose nr. 6000	1
06-0009 - hose nr. 9	3	08-0325 - Piston pump	1
06-0014 - hose nr. 14	2	08-0915 - wheel motor left front	1
06-0026 - hose nr. 26	3	08-0914 - wheel motor right front	1
06-0027 - hose nr: 27	1	08-0916 - wheel motor back	2
06-0031 - hose nr. 31	1	08-1218 - 2/2 valve (see diagram H-01)	1
06-0032 - hose nr. 32	1	08-1242 - 3/2 valve (see diagram H-02)	1
06-0041 - hose nr. 41	1	08-1248 - release valve (H-01)	2
06-0061 - hose nr. 61	1	08-1251 - release valve PTO pump (H01)	1
06-0114 - hose nr. 114	1	08-1812 - suction filter (H-01)	1
06-0592 - hose nr. 592	2	08-1880 - suction / return e198-156	1
06-0145 - hose nr. 145	1	08-2112 - check valve	3
06-0146 - hose nr. 146	2	08-2403 - 4 / 3 valve (DA and lift H-01)	2
06-0310 - hose nr. 310	1	08-2427 - 4 / 2 valve (H-01)	1
06-0312 - hose nr .312	1	08-2445 - 4 / 3 valve PTO (H-01)	1
06-0318 - hose nr. 318	1	08-3309 - ball valve	1
06-0332 - hose nr .332	2	08-3607 - oil cooler	1
06-0341 - hose nr. 341	2	08-3618 - temp.switch oil 70gr	1
06-0504 - hose nr. 504	2	08-3912 - orbitrol (steering unit)	1
06-0576 - hose nr .576	1	08-4203 - priority valve	1
06-0580 - hose nr .580	2	08-4503 - Fuel level indicator	1
06-0581 - hose nr .581	1	08-4806 - filling cap (fuel)	1
06-0582 - hose nr .582	1	08-4812 - filling cap / breathing filter (hydro)	1
08-9922 - pressure switch	1	16-2133 - indicator light	2
08-9939 - o-ring argo filter	1	16-2148 - rotation light	1

08-9950 - splithalve 6000 psi	4	16-3024 - cable dm-trac 301/401/501	1
10-0315 - o-ring high pressure seal	4	16-4218 - fuse holder 30A	10
14-0603 - handle adjustable m10	1	16-4227 - fuse 10A	2
14-0606 - handle adjustable m12	1	16-4230 - fuse 25A	6
14-0615 - door handle outs. (without lock)	1	16-9903 - radio-cassette	1
14-0624 - door handle ins. links (r)	1	16-9905 - antenna	1
14-0627 - door handle ins. rechts (l)	1	16-9906 - loud speakers 40W	1
14-0630 - door handle outs. (with lock)	1	16-9942 - Battery	1
14-1215 - heater valve	1	16-9953 - diode 3A	4
14-1503 - vibration damper cabin	4	16-9956 - automaton 12V - 200W	1
14-2155 - module	1	16-9959 - brake light switch	1
14-2415 - louver	6	16-9962 - reverse alarm	1
14-2703 - windscreen wiper motor	1	16-9965 - tool clamp 19mm	2
14-2718 - windscreen wiper arm parallel	1	18-0327 - throttle cable	1
14-2739 - windscreen wiper blade	1	18-0351 - cable + handle for airco	2
14-3009 - chair (14-3015 - air-suspended chair)	1	18-0606 - throttle handle	1
14-3303 - side mirror	2	18-1203 - ball joint m5	1
14-3309 - inside mirror	1	18-1212 - ball joint m8	2
14-9915 - cabin door holder	2	20-0312 - rain protection cap	1
14-9924 - steering wheel	1	20-0639 - air filter element roof fan	2
14-9927 - steering knod	1	20-1863 - motor-pump coupling	1
14-9930 - direction switch	1	20-2103 - vibration damper	9
14-9936 - roof light	1	20-2130 - vibration damper Yanmar engine	4
14-9939 - claxon	1	20-3069 - air hose air filter to engine	1
14-9952 - pedal	1	20-3078 - air hose air filter to engine	0,5
14-9979 - ring for vibration damper	8	20-9930 - air filter indicator	1
14-9995 - glow-start switch	1	20-9939 - fuel level indicator	1
16-0643 - four-position switch	1	20-9941 - water temperature indicator	1
16-0653 - switch lights	1	22-0606 - sticker no smoking/open fire	1
16-0655 - switch windscreen wiper	1	22-0612 - sticker hot parts	2
16-0657 - switch parking brake	1	28-0306 - windscreen	1
16-0659 - switch PTO	1	28-0606 - rear window	1
16-0663 - switch warning lights	1	28-0912 - side window L+R	2
16-0665 - switch rotary light	1	30-0903 - slide bearing 16 x 25	2
16-0670 - control light 12V	1	30-0912 - slide bearing	4
16-0672 - cover switch holder	7	34-9952 - top link rapid ball	2
16-0906 - symbol windscreen wiper	1	38-1215 - wheel nut	20
16-1212 - led green	1	38-9927 - trailerbody fastening	2
16-1220 - tubular lamp 12V - 5W	2	74-3981 - hand pump	1
16-1226 - bulb 12V - 5W	2	95-0110 - PTO-pump DM-Trac 301	1
16-1228 - bulb 12V - 10W	2	95-0123 - PTO-pump DM-Trac 401	1
16-1232 - bulb 12V - 21W	7	95-0125 - PTO-pump DM-Trac 501	1
16-1234 - bulb 12V - 21W dupl.	2	95-0606 - pump flange gear pumps	1
16-1509 - relais brakes( see E-02)	2	95-0607 - pump flange gear pumps	2
16-1512 - relais several instruments (see E-01)	8	95-0617 - pump flange gear pumps	1
16-1518 - relais holder	10		
16-1524 - relais frontlift (see E-03)	2		
16-1530 - relais housing + clip	2		
16-2110 - back light (L)	1		
16-2113 - back light (R)	1		
16-2127 - head light	2		

I

## Hydraulic diagram (carrier)





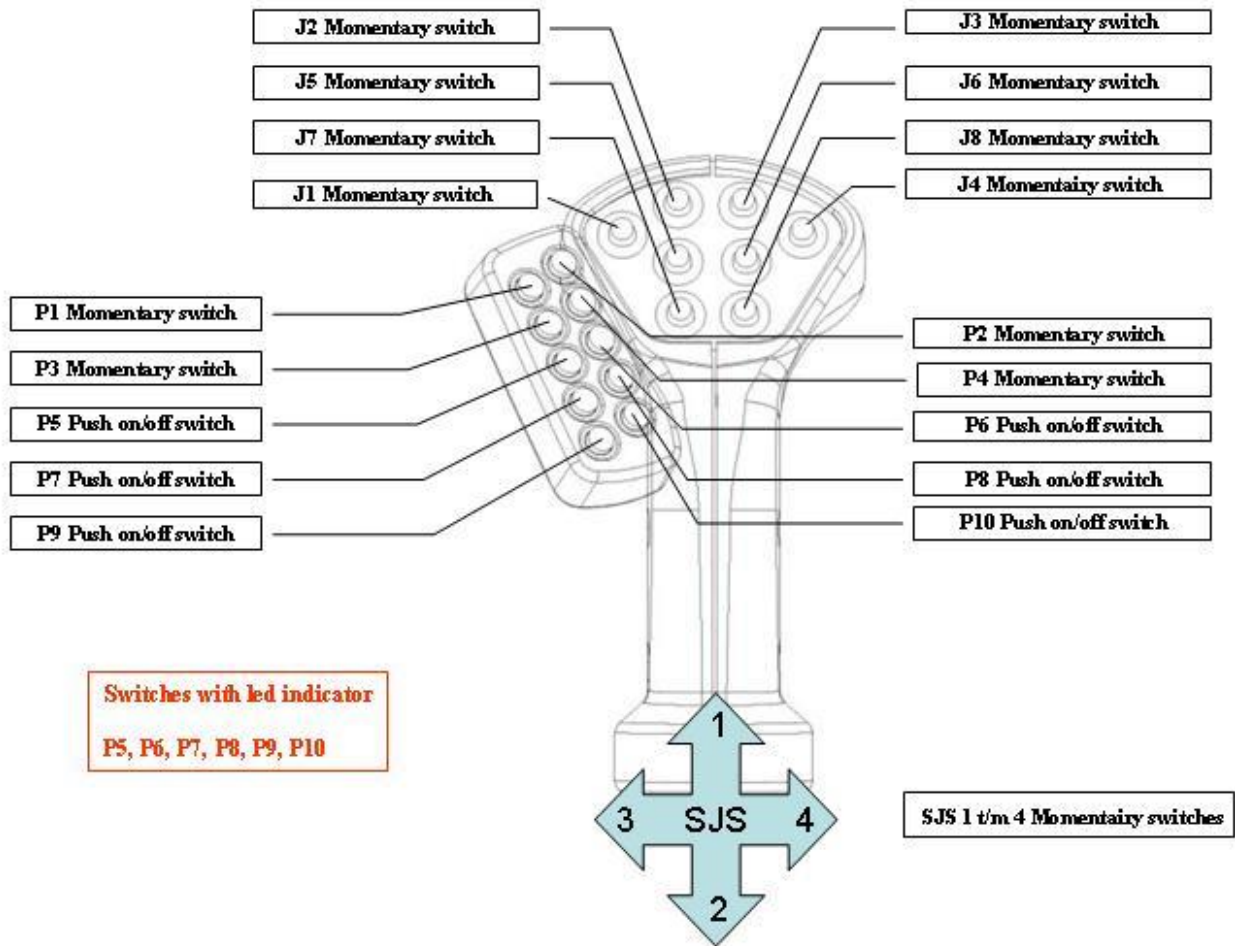






VII

Electrical diagram hydraulic



## **What to do by maintenance.**

- Regular inspection of the machine
- Cleaning the machine with steam-cleaning
- Put the machine on a lift and check it on failures and wear
- Displace and clean parts and oil according to the maintenance diagram.
- Copy and fill in the checklist.
- Check and write down the hours, with date and what kind of maintenance on the sticker (see last page ) and put these in the cabin (at the right back site above the fridge) after you have fill in checklist.

**When maintenance is ready**  
**Place the sticker here**  
(every time after maintenance)



**(copy these last pages with every maintenance)**

## Maintenance-report NIMOS DM-Trac 1201

Production order	.....	Name customer	.....
Serial number	.....	Name dealer	.....
Machine no.	.....	Type engine	.....
Hours	.....	Kind of maint.	.....

### Check-list by maintenance

1. Working of electrical installation:

No.	Description	Checked
1.	radio	○
2.	switch work-light (front)(optional)	○
3.	switch rotary-light	○
4.	switch alarm-lights	○
5.	switch road-lights	○
6.	switch windscreen washer	○
7.	switch windscreen wiper	○
8.	control lamp air-conditioning on	○
9.	turn-switch/thermostat air-conditioning	○
10.	turn-switch ventilator 3-ways	○
13.	lever temp. Control heater	○
14.	lever re-circulation	○
15.	RPM/hour counter	○
16.	engine water temperature gauge	○
17.	fuel gauge	○
18.	horn button	○
19.	warning lamp max. engine temp.	○
20.	control lamp engine oil pressure	○
21.	control lamp charging current	○
22.	direction indicator lamp	○
23.	control lamp start engine	○
24.	warning lamp fuel level	○
25.	warning lamp air filter	○
26.	warning lamp engine temp.	○
27.	direction indicator switch	○
28.	-	○
29.	handle adjust steering column	○
30.	driving pedal forward (propel)	○
31.	switch PTO	○
32.	ground pressure meter	○
33.	valve tempomat	○
34.	4 position switch (option)	○
35.	switch ground-pressure control system on/off	○
36.	4 position switch	○
37.	switch parking brake	○
38.	Switches (visual control)	○
39.	switch tempomat on/off	○
40.	gas throttle	○
41.	-	○
42.	reservoir front shield washer	○
43a.	foot-pedal forwards	○
43b.	foot-pedal backwards	○
44.	cabin light	○
45.	glow-starting switch	○
46.	Clutch airco	○
47.	reverse warning	○
48.	Wires in dashboard (visual control)	○
49.	Refrigerator	○

2. Battery liquid level and greasing battery poles ○
3. Ball joints - greased ○



4. Tire pressure	- front..... bar	<input type="radio"/>
	- back.....bar	<input type="radio"/>
5. Leakage cabin (control)		<input type="radio"/>
6. Working parking brake		<input type="radio"/>
6a. Emergency brake hand pump		<input type="radio"/>
7. Working hydraulic installation	- Fronthitch	<input type="radio"/>
	- Steering system	<input type="radio"/>
	- PTO hydraulic	<input type="radio"/>
	- Double acting	<input type="radio"/>
	- Cylinders	<input type="radio"/>
	- Working oil cooler (fan)	<input type="radio"/>
	- Hydraulic hoses (see diagram)	<input type="radio"/>
	- suction / return filter (see M.diagram)	<input type="radio"/>
	- suction filter (gear pump see M.diagram)	<input type="radio"/>
	- filling cap (see M.diagram)	<input type="radio"/>
8. Hydraulic tank	- Oil level	<input type="radio"/>
	- hydraulic oil (see M.diagram)	<input type="radio"/>
	- Oil temperature meter	<input type="radio"/>
	- Warning light max. temp.	<input type="radio"/>
9. Engine	- Cooling liquid level (see M.diagram)	<input type="radio"/>
	- Oil level	<input type="radio"/>
	- Min rpm without load .....	<input type="radio"/>
	- Max rpm without load 3050 rpm	<input type="radio"/>
	- Control wires on damage	<input type="radio"/>
	- Fuel filter ( see M.diagram)	<input type="radio"/>
	- Oil filter (see M.diagram)	<input type="radio"/>
	- Cooling ribs radiator (see M.diagram)	<input type="radio"/>
	- Leakage cooling system (none)	<input type="radio"/>
	- Radiator fan (see M.diagram)	<input type="radio"/>
	- V-belt (see M.diagram)	<input type="radio"/>
	- V-belt airco (see M.diagram)	<input type="radio"/>
	- Air filter engine (see M.diagram)	<input type="radio"/>
	- Leakage air filter engine (none)	<input type="radio"/>
	- Intake and exhaust valve (see M.diagram)	<input type="radio"/>
	- Fuel injection timing (see M.diagram)	<input type="radio"/>
	- Fuel injection nozzle (see M.diagram)	<input type="radio"/>
	- Fuel injection pump (see M.diagram)	<input type="radio"/>
10. Leakage hydraulic oil (none)		<input type="radio"/>
11. Air filter cabin (see M.diagram)		<input type="radio"/>
12. Pivot point (see M.diagram)		<input type="radio"/>
13. Tighten wheel nuts		<input type="radio"/>
14. Check not painted parts		<input type="radio"/>
15. Check painting		<input type="radio"/>
16. Check type print		<input type="radio"/>
17. Stickers still readable	- Gas oil	<input type="radio"/>
	- Hydraulic oil	<input type="radio"/>
	- Engine oil	<input type="radio"/>
	- Cooling liquid	<input type="radio"/>
	- CE-plate	<input type="radio"/>
	- Forbidden to hang on the machine	<input type="radio"/>
	- Reading operation manual	<input type="radio"/>
	- Rotating parts and keep distance	<input type="radio"/>
	- Constriction danger	<input type="radio"/>

Hydraulic pressures and hydraulic flow:

18. Driving system	- Charge pressure (G)	(20 bar)	○
	- House pressure (T)	(0 bar)	○
	- High pressure driving (A)	(420 bar)	○
	- High pressure driving (B)	(420 bar)	○
19. Steering system	- Pressure orbitrol	(175 bar)	○
20. fronthitch	- Pressure	(175 bar)	○
21. Pressure gear pump	- Last pump	(175 bar)	○
22. PTO pump	- Flow measure	2200 rpm	○
	- Pomp pressure	245 bar	○
23 Pressure emergency brake	- Check only	(24 bar)	○

**25. Serial numbers** (only by replacement)

Driving pump	:
Double pump	:
Wheel motor L front	:
Wheel motor R front	:
Wheel motor L back	:
Wheel motor R back	:
Diesel engine	:

\* *M.diagram* = maintenance diagram see page 19 and 20

**Notes :**

- \* .....
- \* .....
- \* .....
- \* .....
- \* .....

**List with failures or specific things.**

- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....
- \* .....

Machine tested by (engineer) : Name :.....  
Date :.....-.....-20.....  
Signature :.....

C:/mijndokumenten/machines/Dmtrac99/stickers/stickervel onderhoud DM-Trac

***stickervel***