



Operation and maintenance instruction
with parts lists of the NIMOS implement carrier

DM-Trac

Dealer : VN Agro AS
Serial nr. : 96-5960

2

INDEX

	Page
1.0 INTRODUCTION	2
2.0 GENERAL INFORMATION NIMOS DM-TRAC	
2.1 General description DM-Trac	3
2.2 Technical dates	4
2.3 Description of signs	5
3.0 USERS CONDITIONS	6
4.0 SAFETY INSTRUCTIONS	6
5.0 WARNINGS	
5.1 General	7
5.2 Description of pictograms	7+8
6.0 OPERATING INSTRUCTIONS	
6.1 Controls and instrumentation in the cabin	9
6.2 Description of some operating controls	
A. Engine starting instructions	10
B. Operating high/low driving speed	10
C. Operating parking brake and emergency stop	11
D. Operating heater	11
E. Operating overpressure fan in the roof	12
F. Operating hand pump	12
G. Operating differential Locks	13
H. Operating rear P.T.O.	13
I. Operating rear hitch	13
6.3 Instructions parking brake and towing of the machine	14
7.0 MAINTENANCE INSTRUCTIONS	
7.1 Maintenance diagram DM-Trac	15
7.2 Parts list for maintenance DM-Trac	16
8.0 TECHNICAL DOCUMENTATION	
8.1 Hydraulic schematic	17
Parts list hydraulic components	18+19
Parts list hydraulic hoses	20+21
8.2 Electrical schematic lighting + solenoid valves	22
Parts list electrical components	23+24+25+26
8.3 Electrical schematic of the engine	27
Parts list electrical schematic of the engine	28+29
9.0 INSTALLATION INSTRUCTION FOR IMPLEMENTS	30



1.0 INTRODUCTION

In this operating manual we give you, the owner/user of our NIMOS multi-purpose 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 bringing the DM-Trac into use.

Regarding safety we want to bring in your attention the chapters concerning safety during operation and maintenance.

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

Producer of the NIMOS products : Drost Machines B.V.
Utrechtsestraatweg 204 A
3911 TX Rhenen
the Netherlands

Tel. : (+31) 317-619017
Fax. : (+31) 317-614447



2.0 NIMOS DM-TRAC GENERAL

2.1 GENERAL DESCRIPTION DM-TRAC

The NIMOS DM-Trac really 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
- rotary mowing
- cylinder mowing
- winter service
- transport
- wood shredding etc.

Because of all these possibilities the NIMOS DM-Trac can be brought into action all year round.

More over the NIMOS DM-Trac is equipped with:


- * Hydrostatic driving with power control.
- * Noiseless, vibrationless, open sight, heated cabin.
- * High transport speed.
- * It is an articulated tractor and therefore very manoeuvrable and always track following.
- * Environment friendly powerful V.W. 1900 cc. industry diesel engine.



2.2 TECHNICAL DATES

Brand	: NIMOS
Type	: DM-Trac
Engine	: VW 4-cylinder, industry diesel engine 1900 cc. maximum power 43 kW/58 PK at 4000 rpm. tuned power 39 kW/53 PK at 3200 rpm.
Driving	: Hydrostatic two- or four-wheel drive (option) stepless adjustable 0-25 km/h.
Pumps	: Driving pump, piston pump with power control Piston pump for driving implements 0-60 l/min. Gear pump for steering and operating hydraulics.
Cabin	: Noiseless cabin with tinted glass and available with 2 seats.
Tires	: Low pressure lawn tires 31 x 12.50 x 15 4 ply. Optinal: Viskafors 400/60 x 15.5
Tire pressure	: Both front and back minimal 0.8 bar. More over depending on the implements the correct tire pressure needs to be determined.
Steering	: Fully hydraulic
Brakes	: Hydrostatic plus parking brake (multiple disc brake).
Dimensions	: Basic machine - Length : 3600 mm. - Width : 1290 mm. - Height : 2110 mm. Tipping box - Length : 1375 mm. (inside) - Width : 1180 mm. - Height : 300 mm.
Wheelbase	: 1915 mm.
Track width	: 965 mm. (with standard tires)
Weights	: Basic machine = 1900 kg. Max. transport loading = 3400 kg.

2.3 DESCRIPTION OF SIGNS

		<h1>NIMOS</h1>	
DROST MACHINES B.V. <small>UTRECHTSESTRAAT 1163 2017 - 1814 TX BREKVELD HOLLAND TEL. 0639 1 81 17 FAX 033 71 1443</small>			
Type	<input checked="" type="checkbox"/>	Max. aslast voor	kg <input checked="" type="checkbox"/>
Serie nr.	<input checked="" type="checkbox"/>	Max. aslast achter	kg <input checked="" type="checkbox"/>
Bouwjaar	<input checked="" type="checkbox"/>	Max. aslast	kg <input type="checkbox"/>
Massa kg.	<input checked="" type="checkbox"/>	Max. koppelingsdruk	kg <input type="checkbox"/>
Nom. vermogen kW	<input checked="" type="checkbox"/>	Max. totaal gewicht	kg <input checked="" type="checkbox"/>

_____	Nom. engine power
_____	Weight
_____	Year of construction
_____	Serial number
_____	Type
_____	Max. total weight
_____	Max. axes load back
_____	Max. axes load front

Type print

The boxes marked with X are filled in on every machine.



CE marking



3.0 USERS CONDITIONS

The DM-Trac is meant for several operating circumstances. The DM-Trac can be used for work related to green areas both on public roads (mind the max. speed for slow traffic) and in parks.

The purposes of usage may vary as a result of the large variety of implements.

The NIMOS DM-Trac may be used for weed brushing, rotary mowing, cylinder mowing, leaf blowing, wood shredding and winter service (gritting icy roads, snow ploughing, sweeping). This is only possible when the implements fulfil the technical specifications given by the NIMOS producer. Any other application can be a danger to the driver and persons in the direct neighbourhood.

4.0 SAFETY INSTRUCTIONS

- * Persons younger than 16 years, are not allowed to use the machine.
- * For good sight, it is necessary that windows and mirrors are clean and that the mirrors are well adjusted.
- * Maintenance and cleaning is only permitted, when the engine is not running.
- * One always needs to set the red setting leg during inspection, maintenance or reparation under the risen tip box to protect the tip box from coming down.
- * When leaving the cabin, one always needs to turn off the engine, fasten the parking brake and take the keys from the ignition lock.
- * 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 raising the tip box and steering with the articulated tractor.
- * The maximally allowed transverse slope during operation of the machine is 15 degrees in both directions.
- * The driver needs to be well-informed about the operating and maintenance instructions of the machine.

5.0 WARNINGS

5.1 GENERAL:

- The noise level on the driver's seat at max. engine is max. 71 dBa.
- When working on slopes or near obstacles one has to be extra careful.
- The responsibility for changes, respectively modifications of the machine is not for the producer, but for the one who has carried them out.
- 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.
- When tipping one has to take care that there are no persons in the direct neighbourhood of the tip box, because there arises a danger of jamming during lowering the tip box.
- When a trailer coupling has been mounted, this may only be used for shunting and never for pulling a trailer or something like that on a public road.

In case the DM-Trac is equipped with a front and/or back hitch in which implements can be carried, one has to ensure oneself of the following points:

- * It must be prevented that using the hitch during the coupling of implements becomes a danger to the one who couples the implement.
- * The weight of the implement may not endanger the stability of the machine.
- * The driver must know well about the operating instructions and about the working of the controls.
- * The danger zone must be well surveyable for the driver all the time.
- * Persons need to stay outside the direct neighbourhood of the working/moving implement.

5.2 DESCRIPTION OF PICTOGRAMS:



Smoking and open fire prohibited



Danger of jamming



Danger of hot components



Power take off direction of rotation and number of revolutions (if this applies)

ACHTUNG
Vor einschalten Gebrauchsanweisung lesen!
ATTENTION
Before taking into operation read manual!
ATTENTION
Avant utilisation lisez notice d' instructions!
ATTENTIE
Voor gebruik handleiding zorgvuldig lezen!

No explanation required

6.0 OPERATING INSTRUCTIONS (DM-Trac 96-5960)

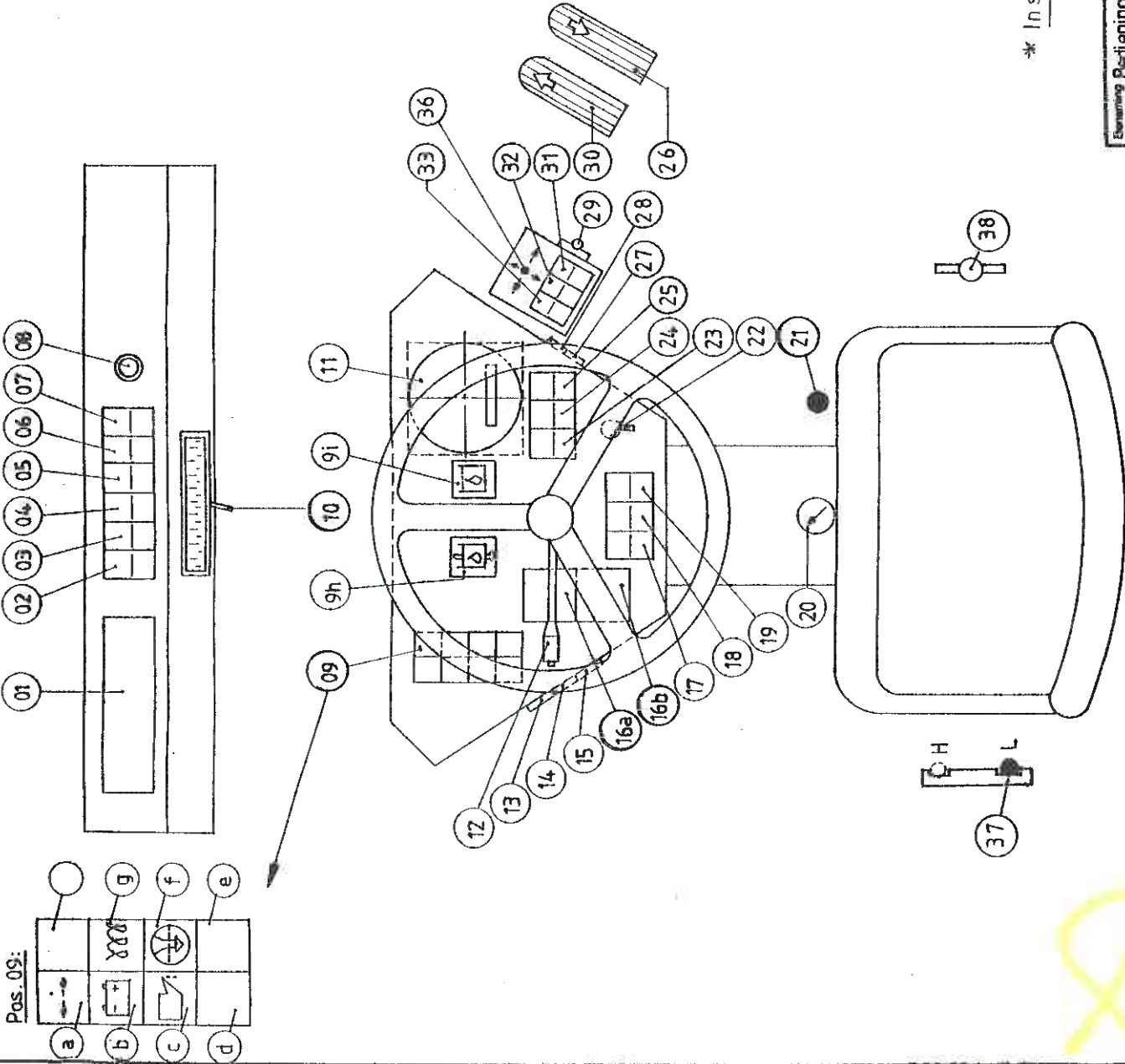
6.1 CONTROLS AND INSTRUMENTATION IN THE CABIN:

Nr.	Naming	Nr.	Naming
1.	Not applicable	17.	Not applicable
2.	Switch windshield wiper	18.	Not applicable
3.	Switch windshield washer	19.	Not applicable
4.	Switch lighting	20.	Not applicable
5.	Switch alarm	21.	Not applicable
6.	Switch flashing light	22.	Glow starting switch
7.	Not applicable	23.	Not applicable
8.	Switch heating (2 positions)	24.	Not applicable
9.	Control panel	25.	Parking brake
9a.	Direction indicator lamp	26.	Driving pedal backwards (propel)
9b.	Pilot lamp charging current	27.	Not applicable
9c.	Pilot lamp engine oil pressure	28.	Not applicable
9d.	Not applicable	29.	Hand accelerator
9e.	Not applicable	30.	Driving pedal forwards (propel)
9f.	Warning lamp air filter fouling	31.	Switch hydraulic quick coupling (front SA) *
9g.	Warning lamp max. hydr. oiltemp.	32.	Switch hydraulic quick coupling (front SA) *
9h.	Warning lamp min. hydr. tanklevel	33.	Switch hydraulic quick coupling (front SA) *
9i.	Warning lamp interior lighting	34.	Not applicable
10.	Revolution/hour counter	35.	Not applicable
11.	Direction indicator switch/horn	36.	4 Position switch forward/backwards (frontity) across (hydr. coupling front DA) *
12.	Switch tipping box	37.	Operation handle high/low propelspeed
13.	Readlift	38.	Operation handle 60 liter pump
14.	Not applicable	39.	Not applicable
15.	Fuel gauge	40.	Not applicable
16a.	Engine water temp. gauge		
16b.			

REMARKS:

- A. When pilot lamp 9c or 9f goes on, immediately turn off the engine and take measures.
- B. When pilot lamp 9h goes on, stop driving and turn off implements. Let the diesel engine run until the hydr. oil has been cooled by means of the oil cooler, i.e. until the pilot lamp goes out.
Attention !! Check whether the engine of the hydro oil cooler is running (right-hand cooler).
- C. Max. cooling water temp. is 95 °C. (16b.)
- D. Operating instructions hydraulic quick couplings, see page 30.

* Instructions see also page 30



Revisering Bedieningscomponenten cabine DM - TRAC 96-59 80
 VN-AGRO
 03/96
 A3
 NIVOS
 Schaal
 Geplaat C.v.d.B.
 DIB
 PLOET MACHERS BV
 Linné 13, P.O. Box 204
 Tel. 0527 9 - 19317

6.0 OPERATING INSTRUCTIONS (DM-Trac 96-5960)

6.1 CONTROLS AND INSTRUMENTATION IN THE CABIN:

Nr.	Naming	Nr.	Naming
1.	Not applicable	17.	Not applicable
2.	Switch windscreen wiper	18.	Not applicable
3.	Switch windscreen washer	19.	Not applicable
4.	Switch lighting	20.	Not applicable
5.	Switch alarm	21.	Not applicable
6.	Switch flashing light	22.	Glow starting switch
7.	Not applicable	23.	Not applicable
8.	Switch heating (2 positions)	24.	Not applicable
9.	Control panel	25.	Parking brake
9a.	Direction indicator lamp	26.	Driving pedal backwards (propel)
9b.	Pilot lamp charging current	27.	Not applicable
9c.	Pilot lamp engine oil pressure	28.	Not applicable
9d.	Not applicable	29.	Hand accelerator
9e.	Not applicable	30.	Driving pedal forwards (propel)
9f.	Warning lamp air filter fouling	31.	Switch hydraulic quick coupling (front SA)
9h.	Warning lamp max. hydr. oiltemp.	32.	Switch hydraulic quick coupling (front SA)
9i.	Warning lamp min. hydr. tanklevel	33.	Switch hydraulic quick coupling (front SA)
10.	Switch interior lighting	34.	Not applicable
11.	Revolution/hour counter	35.	Not applicable
12.	Direction indicator switch/horn	36.	4 Position switch forward/backwards (frontlift) across (hydr. coupling front DA)
13.	Switch tipping box	37.	Operation handle high/low propelspeed
14.	Rearlift	38.	Operation handle 60 liter pump
15.	Not applicable	39.	Not applicable
16a.	Fuel gauge	40.	Not applicable
16b.	Engine water temp. gauge		

REMARKS:

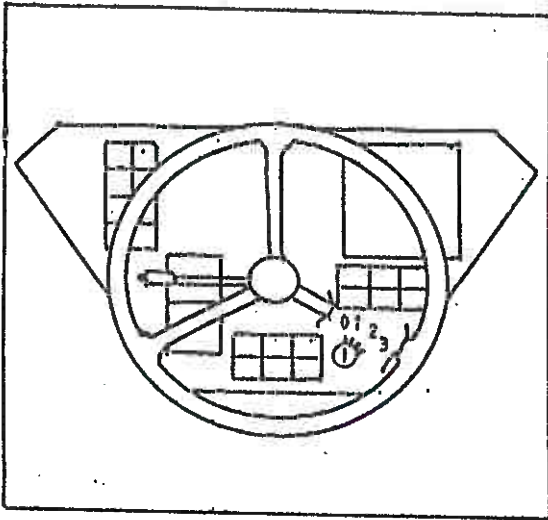
- A. When pilot lamp 9c or 9f goes on, immediately turn off the engine and take measures.
- B. When pilot lamp 9h goes on, stop driving and turn off implements. Let the diesel engine run until the hydr. oil has been cooled by means of the oil cooler, i.e. until the pilot lamp goes out.
Attention !! Check whether the engine of the hydro oil cooler is running (right-hand cooler).
- C. Max. cooling water temp. is 95 °C. (16b.)
- D. Operating instructions hydraulic quick couplings, see page 30.

6.2 DESCRIPTION OF SOME OPERATING CONTROLS

A. STARTING THE ENGINE

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

Warning !! Before starting the machine, one has to check whether the hand brake (switch 25) is in use (see drawing operating controls).



The glowing/starting switch has 4 positions namely:

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

Because of the starting safeguard the machine can only be started when the driving pump and the pump for driving the implements are in their neutral position. So to be able to start the feet must be kept off the driving pedals and handle 38 (see drawing operating controls) must be positioned in the middle.

B. OPERATING HIGH/LOW DRIVING SPEED

At the 4-wheel drive DM-Trac one can change between high and low driving speed and resp. low and high tractive effort by means of handle 37 (see drawing operating controls).

High speed : push handle fully forwards
Low speed : push handle fully upwards

Warning !! Do only switch over handle 37 when both the hand brake is in use and the engine number of revolutions is below 1000 r.p.m. and the feet are kept off the driving pedals.

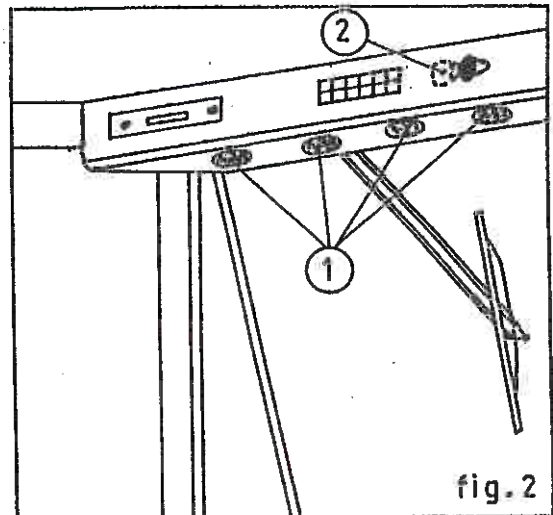
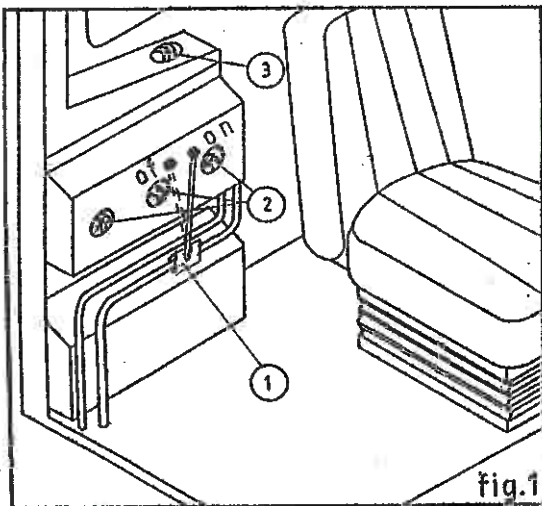
C. OPERATING PARKING BRAKE AND EMERGENCY STOP

By means of switch 25 (see drawing operating controls) the parking brake can be switched on electrically. The brake comes into effect by taking away the blockade of the switch and switching it on.

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

D. OPERATING HEATER

- Open heating valve (1) (see figure 1)



- Choose fan speed: position 0-1-2 by means of pull switch (2) see figure 2.

To free the windows from condensate quickly:

- Bring heating switch (2) in position 2 (see fig. 2)
- Close air louver (3) (see fig. 1)
- Close recirculation suction openings (2) (see fig. 1)
- Open air louvers (1) and bring in desired position (see fig. 2)

To heat the cabin quickly:

- Bring heating switch (2) in position 2 (see fig. 2)
- Open air louver (3) (see fig. 1)
- Open recirculation suction openings (2) (see fig. 1)
- Open air louvers (1) (see fig. 2)

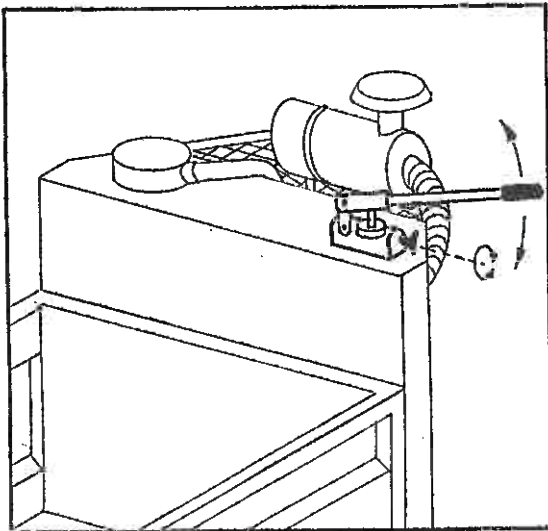
E. OPERATING OVERPRESSURE FAN IN THE ROOF

By means of switch 7 (see drawing operating controls) the fan can be switched between blowing and sucking. When the machine is used in dusty operating conditions the fan should blow the outside air in the cabin via the filter system. This will result in an overpressure and no dust can enter the cabin.

The fan must be operated as sucker regularly, this will blow the dust on the filters to outside and so clean the filters somewhat.

Remark: The optimal functioning of the overpressure fan is obtained when all blower and suction openings of the heater and possible sliding windows are closed.

F. OPERATING HAND PUMP



In case of engine failure the tip box can be risen by means of the hand pump on top of the hydraulics tank in order to repair the engine. By means of the black rotary button the tip box can be lowered again.

G. OPERATING DIFFERENTIAL LOCKS (not applicable on this machine 96-5960)

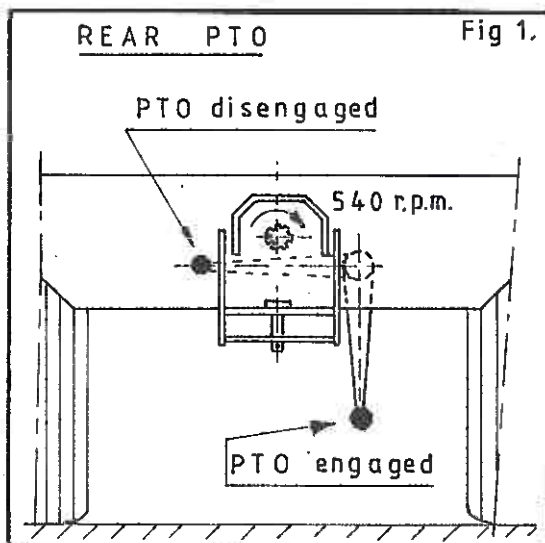
You can operate the length differentiallock (between front and rearaxel) with differentiallock switch 17 on the dashboard see page 9.

You can operate the across differentiallock (between L.H. and R.H. front wheels) with differentiallock switch 18 on the dashboard.

Attention !! Use the differentiallock switches 17 + 18 only when the machine is in the straight position and the switches are only in funtioning in the lowspeed propel position of lever 37 (there is one inductive switch fitted at the high/low speed selector valve)

H. OPERATING REAR P.T.O. 540 R.P.M. (right hand)

1. Switch the hydraulic valve in position A (see fig. 1.).
2. Switch operating lever 38 (see page 9) in the forward position.
3. Bring the engine at 3400 r.p.m. with the hand accelarator 29 (see page 9).



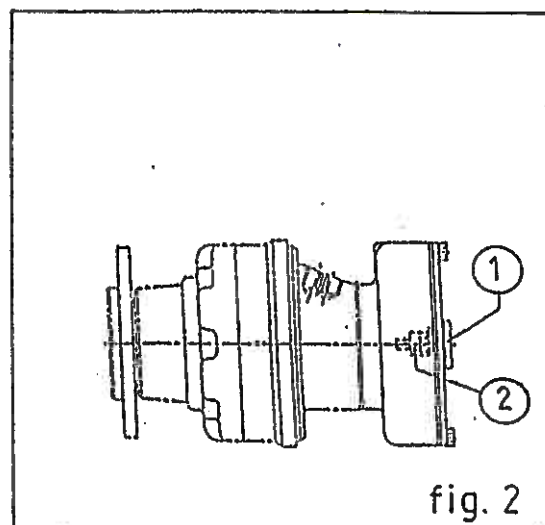
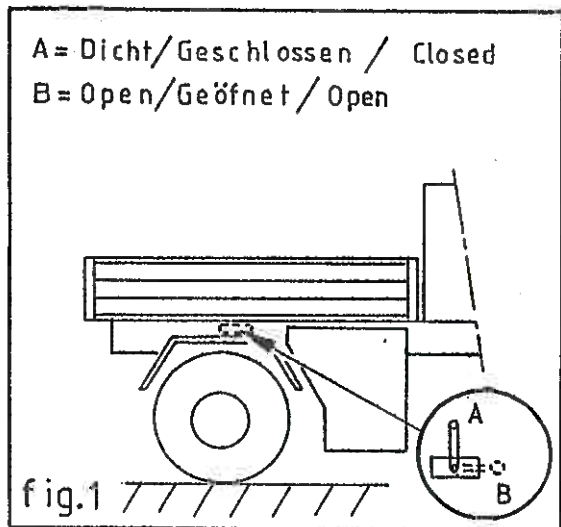
I. OPERATING REAR HITCH

You operate the rear hitch with switch 14 (see page 9).

Attention !!

- When you have implements in the rearhitch, do not operate the tipping box.
- Check the top linkage in the highest position of the rear hitch.
- Bring the rear hitch in the lowest position, when you operate the tipping box with the open board.

6.3 INSTRUCTIONS PARKING BRAKE AND TOWING OF THE MACHINE



1. When the engine is not running, the parking brake is always in function. The multiple disc parking brake (in the wheel engines) is blocked by means of spring pressure and comes off by means of the oil pressure of the filling pump on the driving pump.
2. When the diesel engine is running the parking brake can be switched on and off with switch 25 (see drawing operating components).

TAKE CARE !! Bring parking brake only into function when machine is not driving.

TOWING INSTRUCTIONS:

A. With running diesel engine:

- Open valve behind the R.H. rear wheel (see fig. 1).
- Maximum driving speed during towing: 3 km/h.

B. When diesel engine is not running:

- Open valve behind the R.H. rear wheel (see fig. 1).
- Remove plug 1 of the wheel engines with straight spanner 36 mm. (see fig. 2).
- Turn cylinder head bolt 2 (behind plug 1) inwards with socket head wrench 8 mm., resulting in the multiple disc brake to be pushed free.
- Mount plug 1 again.
- Maximum driving speed during towing: 3 km/h.

TAKE CARE !! After reparation always turn back cylinder head bolt, plug and close valve (see fig. 1 + 2).

7.0 MAINTENANCE INSTRUCTIONS

7.1 MAINTENANCE DIAGRAM DM-TRAC

To be done	Component	Hours interval (at every 10,50,150 hours etc.)				
		10	50	150	300	1200
Clean:	Fuel tank					X
	Atomizer (injectors)					X
	Air filter elements			X		
	Cooling ribs coolers	depends on operating conditions				
Check:	Engine oil level	X				
	Hydraulics oil level	X				
	Battery liquid			X		
	Cooling ribs	X				
	V-belt dynamo			X		
	Atomizer pressure					X
	Parking brake		X			
	Tighten wheel nuts		X			
	Hoses: leakage/damage		X			
	Play of rotation point and nuts (behind cabin) and if necessary adjust/tighten			X		
	Cooling liquid level			X		
	Toothed belt strain				X	
	Suction filter indicator driving pump			X		
	Suction filter indicator 70 litre pump			X		
	Testing engine and machine			X		
Renew:	Engine oil			X		
	engine oil filter			X		
	Draw water from fuel filter			X		
	Air filter elements				X	
	Fuel filter				X	
	Return filter elements				X	
	Suction filter in tank				X	
	Suction filters driving pump				X	
	Suction filters 70 ltr. pump				X	
	Hydraulics oil (125 ltr.)					O
	Cooling liquid					O
	Distribution belt + stretching pulley					X
Greasing:	Steering cylinder (6 nipples)		X			
	Rotationpoint of steeringmechanism 2 nipples		X			
	Tipping box cylinder (1 nipples)		X			
	Rotation point of tip box (2 nipples)		X			
	Implements (???)		X			

X = To be done as indicated O = to be done after 1200 hours or at the latest after 2 years.
 Remaining maintenance of the engine; see provided engine instruction manuals.

7.2 PARTS LIST FOR MAINTENANCE DM-TRAC

<u>NAMING</u>	<u>NUMBER</u>	<u>ART. NR.</u>
Engine oil filters	1	36-8036
Fuel filter	1	36-8044
Air filter (inner element)	1	36-8084
Air filter (outer element)	1	36-8086
Hydr. return filter element (on top of the tank)	1	28-0641
Suction filter (toothed wheel pump) in the tank	1	28-0525
Suction filter element driving pump	1	28-0547
Suction filter element 70 ltr. pump	1	28-0547
Filters overpressure fan (if installed)	2	36-9440

CONTENTS

Engine oil	: 4,50 litre
Cooling liquid	: 12 litre
Hydr. system	: 125 litre
Fuel	: 35 + 25 litre (2 tanks)

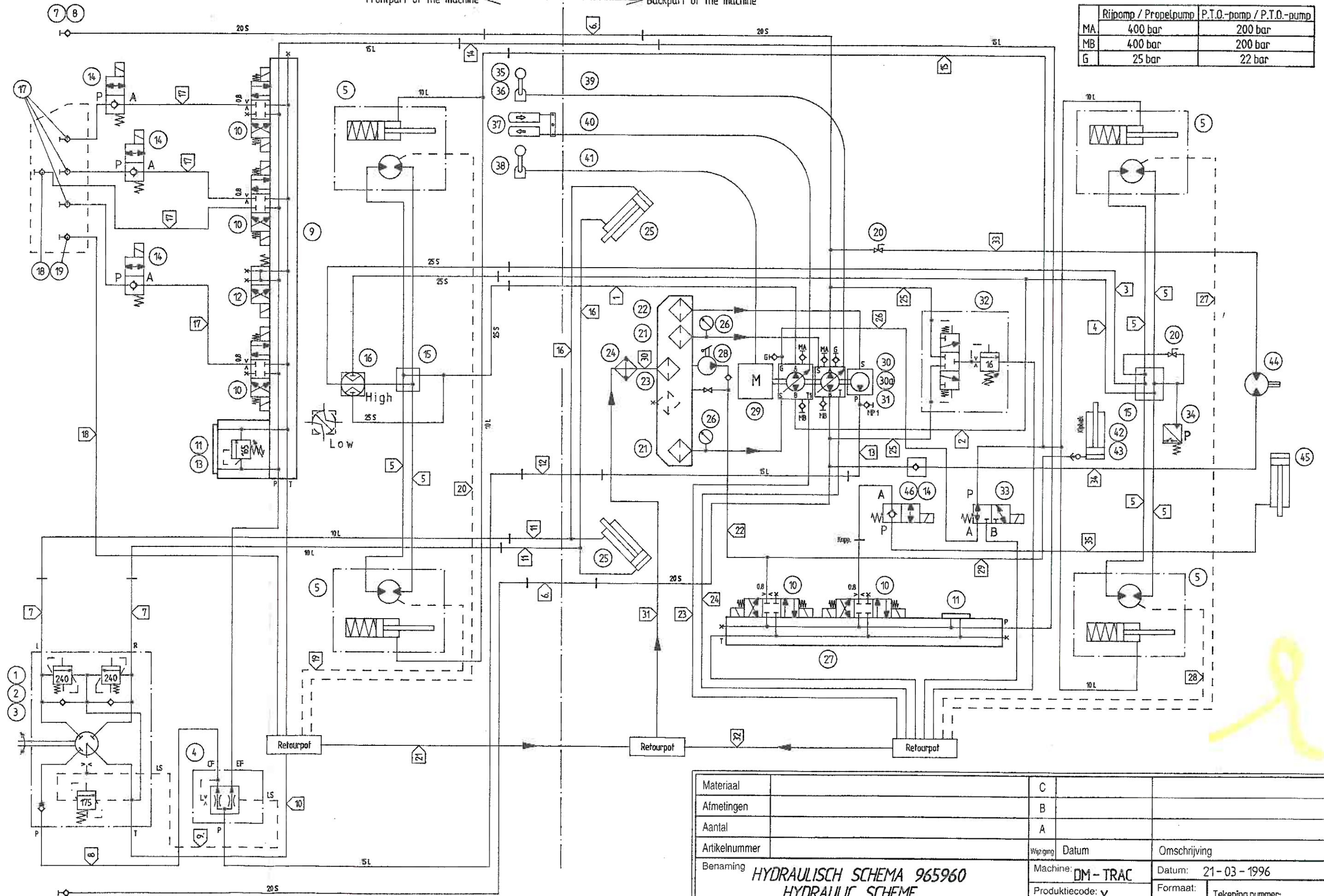
LUBRICANTS *

Engine oil	: Total Rubia XT 15W-40
Cooling liquid	: Total cooling liquid G 21
Grease	: Multi grease class 2 (DIN 51818)
Hydraulics 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.

Frontpart of the machine ← → Backpart of the machine

	Rijpomp / Propelpomp	P.T.O.-pomp / P.T.O.-pomp
MA	400 bar	200 bar
MB	400 bar	200 bar
G	25 bar	22 bar



○ Pos. nrs. hydr. componenten / hydr. parts.
 □ Pos. nrs. hydr. slangen / hydr. hoses.

Materiaal	C		
Afmetingen	B		
Aantal	A		
Artikelnummer	Wijziging	Datum	Omschrijving
Benaming	Machine: DM-TRAC		Datum: 21-03-1996
	Productiecode: X		Formaat: A3
			Tekening nummer: H-13
	Rangschikmerk X		

DROST MACHINES B.V.
 Utrechtsstraatweg 204a
 3911 TX Rhenen
 Tel. 08376 - 190 17 Fax 08376 - 144 47

Schaal X
 Getekend **S.L.**

Deze tekening blijft ons eigendom en mag zonder schriftelijke toestemming niet gekopieerd of aan derden ter inzage worden gegeven, noch ten behoeve van derden worden gebruikt.

Positie Picture	Art.nr. Partnr.	Aantal Quantity	Omschrijving	Bezeichnung	Description
21	28-0545	2	Zuigfilter kompl.	Saugfilter kompl.	Suctionfilter compl.
21a	28-0547	2	Zuigelement	Filtereinsatz	Suctionelement
22	28-0525	1	Zuigfilter	Saugfilter	Suctionfilter
23	28-0640	1	Retourfilter kompl.	Rucklauffilter kompl.	Returnfilter compl.
23a	28-0641	1	Filterelement	Filtereinsatz	Returnelement
24	70-0870	1	Oliekoeler 2030	Ölkühler 2030	Oilcooler 2030
25	26-1304	2	Stuurcilinder	Lenkzylinder	Steeringcylinder
26	28-0546	2	Vacuunmeter	Vacuumanzeiger	Vacuumgauge
27	22-2697	1	Grondplaat	Montageplatte	Mountingblock
28	21-2150	1	Handpomp	Handpumpe	Handpump
29	36-8034	1	V.W. motor	V.W. Motor	V.W. engine
30	23-7218	1	Rijpomp	Fahrpumpe	Propelpump
30a	23-7219	1	60 Literpomp	60 Literpumpe	60 Literpump
31	23-7210	1	Tandwielpomp	Zahnradpumpe	Gearpump
32	23-7026	1	Spoelklep	Spiilventil	Spoolvalve
33	28-1889	1	Parkeerremklep	Parkbremsventil	Parkingbrake valve
34	22-2800	1	Remlicht drukschak.	Bremsleucht Drücksch.	Brakelight pressure switch
35	36-9130	1	Handel 60-literpomp	Hebel 60 liter Pumpe	Lever 60 liter pump
36	36-9128	1	Arretering t. b.v. 36-9130	Arretiering für 36-9130	Detent for 36-9130
37	36-9135	2	Voetpedaal	Fahripedal	Propelpedal
38	36-9211	1	Cashandel	Handgashebel	Handaccelerator
39	36-9136	1	Bed. kabel 60 ltr.pomp	Verstellzug 60 ltr. Pumpe	Bowden cable 60 ltr. pump
40	36-9142	1	Kabel rijbediening	Verstellzug fahren	Bowden cable propel
41	36-9225	1	Kabel voor handgas	Verstellzug Handgas	Cable accelerator
42	26-1360	1	Kipbak cilinder	Kipper Zylinder	Bucket cylinder
43	28-0105	1	Slangbreukventiel	Rohrbruch Sicherung	Hose breakingvalve
44	23-0410	1	P.T.O. motor	Zapfwellen Motor	P.T.O. motor
45	70-0876	1	Cilinder achterhef	Zylinder Heckhubeinricht.	Cylinder rearhitch
46	28-1790	1	Terugslagklep	Rückschlagventil	Non returnvalve

8.1 HYDRAULISCHE SLANGENLIJST

Hydraulische slangelijst DM-Trac VN AGRO 96-5960
 Hydraulik Schlauchenliste H-13
 Hydraulisch schema H-13
 Hydraulic hose list H-13
 hydraulic diagram

Positie Bild Picture	Art. nr. E.T. nr. Part nr.	Aantal Stück Quantity	Omschrijving	Bezeichnung	Description
1	11-0566	1	Slang	Schlauch	Hose
2	11-0567	1	Slang	Schlauch	Hose
3	11-0565	1	Slang	Schlauch	Hose
4	11-0564	1	Slang	Schlauch	Hose
5	11-0504	8	Slang	Schlauch	Hose
6	11-0562	2	Slang	Schlauch	Hose
7	11-0004	2	Slang	Schlauch	Hose
8	11-0570	1	Slang	Schlauch	Hose
9	11-0010	1	Slang	Schlauch	Hose
10	11-0571	1	Slang	Schlauch	Hose
11	11-0022	2	Slang	Schlauch	Hose
12	11-0568	1	Slang	Schlauch	Hose
13	11-0024	1	Slang	Schlauch	Hose
14	11-0568	1	Slang	Schlauch	Hose
15	11-5097	1	Slang	Schlauch	Hose
16	11-0021	2	Slang	Schlauch	Hose
17	11-0020	1	Slang	Schlauch	Hose
18	11-0204	1	Slang	Schlauch	Hose
19	11-0511	1	Slang	Schlauch	Hose
20	11-3004	1	Slang	Schlauch	Hose
21	11-0569	2	Slang	Schlauch	Hose

8.2 STUKLIJST ELEKTRISCH SCHEMA E1/08

Onderdelenlijst Elektrisch schema
Ersatzteilliste Elektrisch Schema
Partslis Electrical Diagram

verlichting + magneetventielen
Beleuchtung + Magnetventielen
Lighting + Solenoidvalves

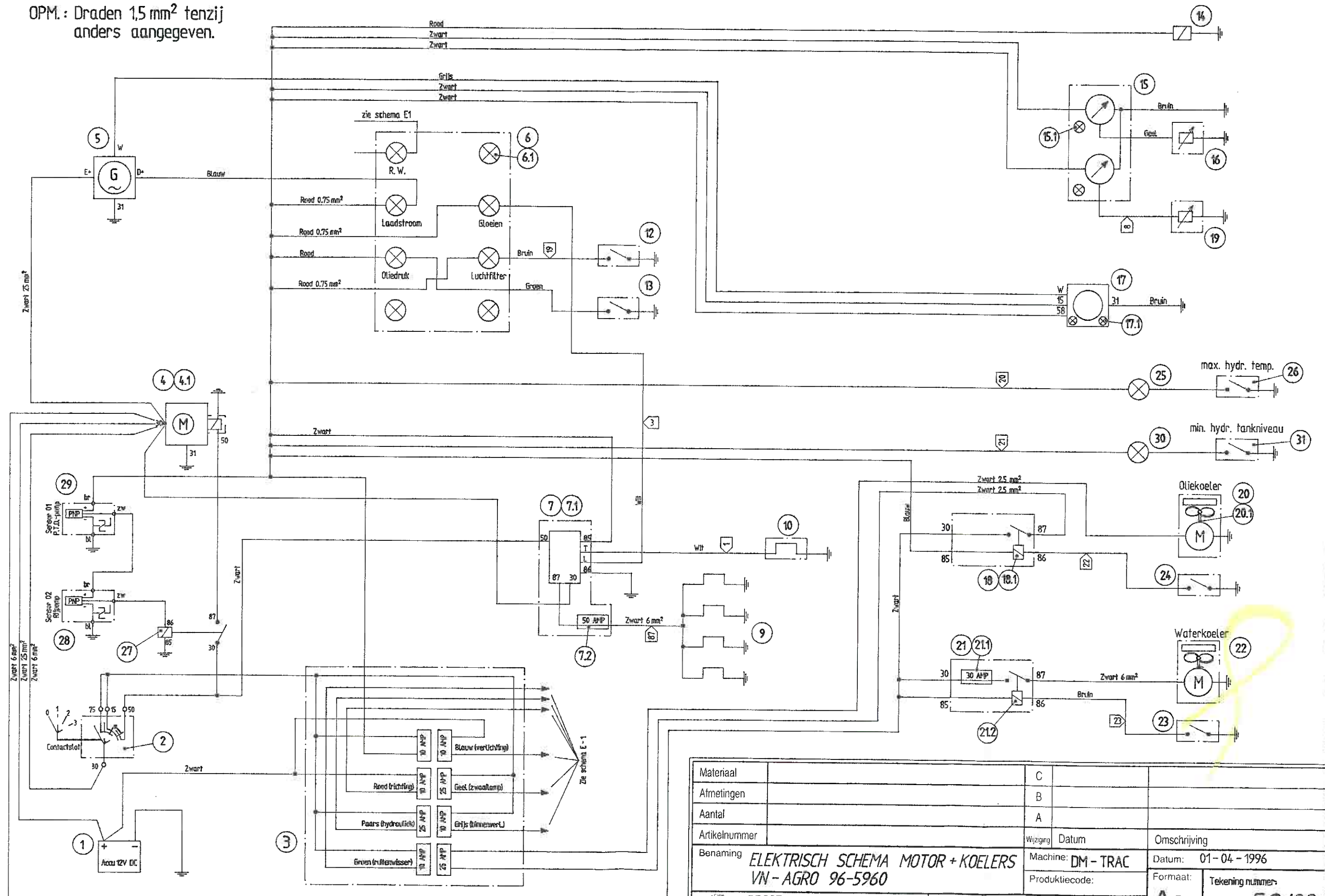
DM-Trac VN AGRO 96-5960

Pos. Bild Pict.	Art.nr. E.T. nr. Part nr.	Aantal Stück Quantity	Omschrijving	Bezeichnung	Description
1	35-6075	1	Accu	Batterie	Battery
2	35-2245	1	Kontaktslot	Glühlasschalter	Glowstartingswitch
3	35-2150	1	Knipperautomaat	Blinkgeber	Flasher unit
4		1	Knipperlicht controlelamp	Warnungsleuchte Blinkleuchte	Warninglight signallight
5	35-2200	1	Claxon	Signalhorn	Claxon
6	35-2215	1	R.a.w. schakelaar	Warnblinkschalter	Directionswitch
7	35-2051	1	Achterlamp links met rem-en knipperlicht	Rückleucht Links mit Brems- und Blinkleucht	Backlight left with brake- and signallight
7.1	35-2520	8	Gloeilamp 21 W	Glühlampe 21 W	Lamp 21 W
7.2	35-2520	2	Gloeilamp 21 W	Glühlampe 21 W	Lamp 21 W
7.3	35-2510	2	Gloeilamp 10 W	Glühlampe 10 W	Lamp 10 W
7.4	35-2061	1	Achterlamp rechts met rem-en knipperlicht	Rückleucht Rechts mit Brems- und Blinkleuchte	Backlight right with brake- and signallight
8	35-2210	2	Knipperlicht	Blinkleuchte	Signallight
9	35-2205	2	Koplamp (voor) met dimlicht	Fahrscheinwerfer mit Standleucht	Spotlight
9.1	35-2500	2	Gloeilamp 5 W	Glühlampe 5 W	Lamp 5 W
10	35-2249	8	Zekeringhouder 30 Amp.	Sicherungshalter 30 Amp.	Fuseholder 30 Amp.
11	35-9995	1	Zwaailamp	Rundumkenleuchte	Rotatinglight
12	22-2641	1	4/3 Magneetventiel	4/3 Magnetventil	Solenoidvalve
12.1	35-6420	1	Schakelaar	Schalter	Switch
12.2	35-6478	1	Symbol	Symbol	Symbol
12.3	28-1887	1	2/2 Magneetventiel	2/2 Magnetventiel	2/2 Solenoid valve
13	22-2641	1	4/3 Magneetventiel	4/3 Magnetventil	4/3 Solenoidvalve

Pos. Bild Pict.	Art.nr. E.T. nr. Part nr.	Aantal Stück Quantity	Omschrijving	Bezeichnung	Description
13.1	35-6420	1	Schakelaar	Schalter	Switch
13.2	35-6478	1	Symbol	Symbol	Symbol
13.3	28-1887	1	2/2 Magneetventiel	2/2 Magnetventil	2/2 Solenoid valve
14	22-2641	1	4/3 Magneetventiel	4/3 Magnetventil	4/3 Solenoid valve
14.1	35-6420	1	Schakelaar	Schalter	Switch
14.2	35-6478	1	Symbol	Symbol	Symbol
14.3	28-1887	1	2/2 Magneetventiel	2/2 Magnetventil	2/2 Solenoid valve
15					
15.1					
15.2					
16	22-2641	1	4/3 Magneetventiel	4/3 Magnetventil	4/3 Solenoid valve
16.1	35-6403	1	Schakelaar (hefboom) 4p	Schalter	Switch
16.2	35-0015	5	Diode	Diode	Diode
17	22-2638	1	4/2 Magneetventiel	4/2 Magnetventil	4/2 Solenoid valve
18	22-2641	1	4/3 Magneetventiel	4/3 Magnetventil	4/3 Solenoid valve
18.1	35-6420	1	Schakelaar	Schalter	Switch
18.2	35-6481	1	Symbol kipbak	Symbol Kipper	Symbol Bucket
19	22-2641	1	4/3 Magneetventiel	4/3 Magnetventil	4/3 Solenoid valve
19.1	35-6420	1	Schakelaar	Schalter	Switch
19.2	35-6478	1	Symbol	Symbol	Symbol
19.3	28-1887	1	2/2 Magneetventiel	2/2 Magnetventil	2/2 Solenoid valve
20					
20.1					
21					
22	28-1889	1	Parkeerremventiel	Parkbremsventil	Parking brake valve
22.1	35-6408	1	Schakelaar	Schalter	Switch

Pos. Bild Pict.	Art.nr. Ers.nr. Partnr.	Aantal Stück Quantity	Omschrijving	Bezeichnung	Description
22.2	35-6479	1	Symbool parkeerrem	Symbol Parkbremse	Symbol parkbrake
23	35-6404	1	Schakelaar	Schalter	Switch
23.1	35-6460	1	Symbool verlichting	Symbol Beleuchtung	Symbol lighting
24	35-6422	1	Schakelaar	Schalter	Switch
24.1	35-6462	1	Symbool ruitensproeier	Symbol Scheibenprenger	Symbol windscreenwasher
25	35-1901	1	Binnenverlichting	Innenleuchte	Interiorlight
26	35-2500	1	Lamp 5 W	Lampe 5 W	Lamp 5 W
27	35-2290	1	Ruitensproeipomp	Waspumpe	Screenwasherpump
28					
29	35-6416	1	Alarmschakelaar	Warnlinkschalter	Alarm switch
29.1	35-6466	1	Symbool alarm	Symbol Warnblinkleuchte	Symbol alarm
30	36-9254	1	Kachelschakelaar	Heizungschalter	Heaterswitch
31	36-9410	1	Kachel compleet	Heizung compleet	Heater complet
32					
33					
34	35-2285	1	Ruitenwissermotor	Wischermotor	Windscreenwipermotor
35	35-6402	1	Schakelaar	Schalter	Switch
35.1	35-6462	1	Symbool ruitenwisser	Symbol Wischeranlage	Symbol windscreen
36	35-6418	1	Schakelaar	Schalter	Switch
36.1	35-6468	1	Symbool zwaailamp	Symbol Rundumkenleuchte	Symbol rotationlight
37					
38	36-9433	n.v.t.	Dakventilator	Dachlüfter	Roofventilator
39	35-6412	n.v.t.	Schakelaar	Schalter	Switch
40	35-6472	n.v.t.	Symbool dakventilator	Symbol Dachlüfter	Symbol roofventilator

OPM.: Draden 1,5 mm² tenzij anders aangegeven.



Materiaal		C	
Afmetingen		B	
Aantal		A	
Artikelnummer		Wijziging	Datum
Benaming	ELEKTRISCH SCHEMA MOTOR + KOELERS	Machine:	DM-TRAC
	VN-AGRO 96-5960	Productiecode:	
		Datum:	01-04-1996
		Formaat:	A3
		Tekening nummer:	E2/08
		Rangschikmerk	X

DROST MACHINES B.V.
 Utrechtselaanweg 204a
 3911 TX Rhenen
 Tel. 08376 - 190 17 Fax 08376 - 144 47

Schaal **X**
 Getekend **S.L.**

Deze tekening blijft ons eigendom en mag zonder schriftelijke toestemming niet gekopieerd of aan derden ter inzage worden gegeven, noch ten behoeve van derden worden gebruikt.

8.3 STUKLIJST ELEKTRISCH SCHEMA E 02/08

Onderdelenlijst
Ersatzteilliste
Partslist

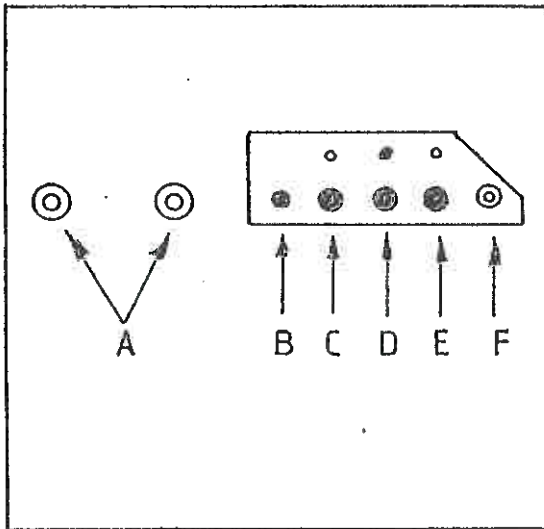
Elektrisch schema motor
Elektrisch Schema Motor
Electrical diagram engine

DM-Trac VN AGRO 96-5960

Pos. Bild Pict.	Art. nr. E.T. nr. Part nr.	Aantal Stück Quantity	Omschrijving	Bezeichnung	Description
1	35-6075	1	Accu	Batterie	Battery
2	35-2245	1	Kontaktslot	Glühanlasschalter	Glowstartingswitch
3	35-2249	8	Zekeringhouder 30 Amp.	Sicherunghalter 30 Amp.	Fuseholder 30 Amp.
4		1	Startmotor	Anlasser	Starter motor
5	36-8041	1	Dynamo 90 A	Lichtmaschine 90 A	Alternator 90 A
6	36-9187	1	Controlepaneel	Kontrolle Paneel	Indicator panel
6.1		8	Lamp 1,2 W	Lampe 1,2 W	Lamp 1,2 W
7	36-9244	1	Houder gloeirelais	Glührelaishalter	Glowrelay bracket
7.1	36-8001	1	Gloeirelais	Glührelais	Glowrelay
7.2	36-8005	1	Zekering 50 Amp.	Sicherung 50 Amp.	Fuse 50 Amp.
8			N.v.t.		
9		4	Gloeibougie	Glühstiftkerzen	Glowplug
10	70-0478	1	Gloeizender zw.	Glühüberwacher	Glowtransm.
11			N.v.t.		
12	36-8080	1	Zender luchtfilter vervuiling	Luftfilterverschmutzungs schalter	Airfilter indicator switch
13		1	Motoroliedruk schakelaar	Motoröldruck schalter	Engine oilpressure switch
14		1	Brandstofmagneetklep	Kraftstoffmagnetventil	Fuel solenoid
15	36-9179	1	Combi-instrument brandstoftankmeter watertemperatuur	Combi Instrument Kraftstoff tankmesser Wassertemperatur	Combi-instrument Fuel tanktransmission Watertemperatur

Pos. Bild Pict.	Art. nr. E.T. nr. Part nr.	Aantal Stück Quantity	Omschrijving	Bezeichnung	Description
15.1		2	Lamp 1,2 W	Lampe 1,2 W	Lamp 1,2 W
16	36-9195	1	Watertemp. zender bl.	Wassertemp. geber	Watertemp. transm.
17	36-9182	1	Toeren/urenteller	Drehtahl/Stundenzehler	R.p.m./hourmeter
17.1		2	Lamp 1,2 W	Lampe 1,2 W	Lamp 1,2 W
18	35-2226	1	Relaisvoet	Relaishalter	Relay bracket
18.1	35-2225	1	Relais	Relais	Relay
19	36-9194	1	Brandstoftank zender	Kraftstoftank geber	Fuel tank transm.
20	36-9173	1	Oliekoeleerblok	Ölkühlerblock	Oil cooler block
20.1	36-9177	1	Oliekoelelerventilator	Ölkühlerlüfter	Oil cooler ventilator
21	36-9244	1	Zekering/relaishouder	Sicherung/relaishalter	Fuse/relay bracket
21.1	36-8012	1	Zekering 30 Amp.	Sicherung 30 Amp.	Fuse 30 amp.
21.2	36-9241	1	Relais	Relais	Relay
22	36-9166	1	Waterkoelelerventilator	Wasserkühler komplet	Water cooler complete
23	36-8006	1	Watertemp. schakelaar	Wassertemp. Schalter	Watertemp. switch
24	36-9245	1	Hydr. olietemp. schakelaar	Hydr. Öltemp. Schalter	Hydr. oil temp. switch
25	35-2240	1	Controle lamp max. hydr. olietemperatuur	Warnungsleuchte max. hydr. Öltemperatur	Warning light max. hydr. oil temperature
26	70-0872	1	Schakelaar max. hydrauliek olie temperatuur	Schalter max. hydr. Öltemperatur	Switch max. hydr. oil temp.
27	35-2225	1	Relais startbeveiliging	Relais Start Sicherung	Relay start protection
28	35-3501	1	Startbeveiligingsschakelaar op rijschakelaar	Startsicherungsschalter auf Fahrpumpe bedienung	Start protection switch on pump operation
29	35-3501	1	Startbeveiliging op 60 liter-pompe bediening	Startsicherungsschalter auf 60 lit. pompe bedienung	Start protection switch on 60-liter pump operation
30	35-2240	1	Contr. lamp min. hydr. tankniveau	Warnungsleuchte min. hydr. Tankniveau	Warning light min. hydr. tank level
31	70-1098	1	Niveau schakelaar	Niveau Schalter	Level switch

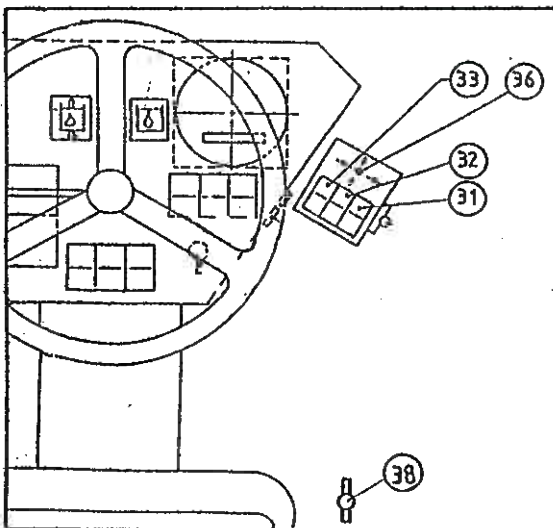
9.0 INSTALLATION INSTRUCTION FOR IMPLEMENTS



DM-Trac 96-5960

Hydr. connection at front of machine:

- A = Driving implements (closed system)
- B = Leakage connection
- C = Single acting connection
- D = Double or Single acting connection
- E = Single acting connection
- F = No connection



Operation of hydr. connections:

- 31 = Operation connection E (S.A.)
- 32 = operation connection D (S.A.)
- 33 = Operation connection C (S.A.)
- 36 = Forwards/backwards is operating connection C (fronthitch) (S.A.)
Sidewards is operating connection D (D.A.)
- 38 = Operation connection A

When using implements, one always has to comply with the warnings of chapter 5.1 WARNINGS.

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 decoupling, immediately clean the dust plugs and dust caps thoroughly and place them on the quick couplings.