

Betriebsanleitung
Operating Instructions
Notice d'emploi
Instrucciones de servicio

1971

A) Description

operator. This manual gives instructions for service and careful maintenance of the tractor. It belongs in the hands of the tractor

densely planted cultivations. of the new Holder Cultitrac model A 15. This special-type tractor has been designed with view to application in Four-wheel drive, compact design, steering effective on all four wheels (pivotal steering) are the particular features

The track width can be adjusted to 480 mm or 630 mm by turning the wheels.

When leaving the works the tractor is ready for service. Engine, gearbox and hydraulic supply tank are filled with oil. The radiator contains all the year round an anti-freeze mixture effective up to $-20\,^{\circ}$ C.

In case of queries please state the following details:

Operation hours Date of sale: . Tractor serial No. Engine serial No. Tractor type e. g. 1/10/69 e. g. 1 10125 e. g. 200 hours e. g. D 12 10114 e. g. A 15

B) Technical Data

1. Engine

- a) Manufacturers:
- b) Type:
- c) Design:
- d) Mode of operation:
- e) Combustion:
- f) Lubrication:
- g) Cooling:
- h) Cooling water filling:
- i) Cylinders:
- i) Cylinder bore:
- k) Stroke:
- Cylinder capacity:
- m) Engine capacity:
- n) Fuel consumption:
- o) Oil supply in oil tank:
- p) Oil supply in governor housing:
- r) Commencement of delivery of fuel injection pump:
- s) Air filter:
- t) Fuel tank capacity:

Gebrüder Holder Maschinenfabrik, 7418 Metzingen/Württ. HD 1

In-line vertical

Two-stroke

Direct fuel injection

Fresh-oil lubrication

Water-cooling

3,8 ltr. — (Anti-freeze mixture contained all the year round)

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88 mm

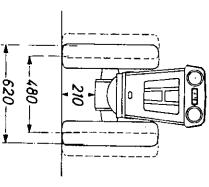
90 mm

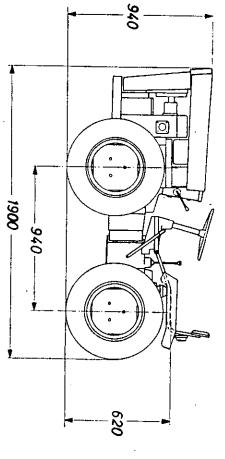
550 cc 12 HP at 2600 rpm after DIN 70020 (German specification standards) 200 g/HP/h

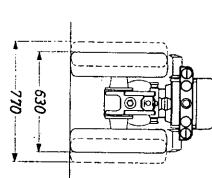
1,0 ltr.

0,75 ltr.

6,6 mm bTDC Large oil-bath air filter, on request with cyclone preselector 6.5 ltr.







The particular attention of clients should be drawn to points v - x!

- v) Tyres:
- w) Track width:
- x) Ballast weights:

All four tyres must have the same diameter and the same tyre pressure. No other tyres than the originally fitted size 6 – 14 AS must be used!

The track width of 63 cm must not be exceeded. Hub spacers are not permissible. Warranty claims must be rejected if the track width has been extended of tractor owner's own accord.

Ballast weights of 25 kg per wheel can be fitted to front and rear wheels. Warranty claims must be rejected if a ballast of more than 25 kg has been used with each wheel.

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Figures

Illustrations

Abbildungen

23

2. Transmission

- a) Clutch:
- b) Gearbox:

c) Speeds with tyres 6–14 AS:

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- d) Diff-lock:
- e) P.T.O.:
- f) Steering:
- g) Minimum inner turning circle:
- .h) Brakes:
- i) Trailer hitch:
- i) Hydraulics:

Single-plate dry clutch.

6 forward gears (0,5–20 km/h) and 3 reverse gears. Drive from engine is taken by splined propeller shaft and universal joints through gearbox to rear differential, returning to front axle via twin propeller shaft. Pedaloperated front wheel diff-lock.

2ndgear gear gear gear gear gear gear gear gear 19,34 km/h 3,72 km/h 6,61 km/h 10,03 km/h 3,72 km/h 1,93 km/h 1,27 km/h 1,93 km/h 1,27 km/ł

Front-wheel, foot-pedal operated diff-lock.

Standard splined shaft with 540 rpm at 2100 engine rpm or 760 rpm at max engine revs (2600 rpm)

Spiral-gear steering with back-lash eliminator.

75 cm

Foot pedal operates front wheel brakes, hand lever operates rear wheel brakes. Both brakes act independently on all 4 wheels through the transmission.

Revolving and detachable

Holder one-cylinder hydraulics with Bosch gear pump (5,5 ltr/min.). Lifts also with decoupled transmission. Max. lifting capacity 350 Kpm or approx. 740 kg on field bar.

l) implement lift:

Holder three-point linkage

m) Electrical equipment:

Bosch dynamo Type LJ/GEH 90/12/1800 FR 15 Bosch starter Type AL 53/43/T 4

Battery: 12 V - 24 Ah

2 headlights (dimlight and parking light)

2 front traffic indicators

2 rear traffic indicators

2 rear reflectors

! brake warning lights with switch

licence plate light

horn

fuse box

7-pole socket

incl. tyres 6—14 AS and Holder three-point linkage

n) Weight:

Total weight:

495 kg 310 kg 190 kg 380 kg 380 kg 175 kg

Permissible load on front axle: Permissible load on rear axle: Rear axle pressure: Front axle pressure:

Permissible loads on axles only applicable for road drive! Permissible load on trailer hitch:

25

C) Preparations for taking tractor into service!

Please pay attention to instructions on page 23!

1. Engine

a) Check oil level daily. Open cover of lubrication oil container (13 III. 1), take diprod (13a III. 3) out and fill with For temperatures below 0° C: HD-B-oil for diesel engines almost to container edge. Oil level must never be below diprod mark (MINIMUM). SAE 10 HD-B oil

For temperatures from 0° — +30° C: SAE 20 HD-B oil

For temperatures over +30°C: SAE 30 HD-B oil

oils. (See page 36). The brand of oil first chosen should be continuously used. March till September incl. To avoid damages caused through inferior lubrication oils use only high-grade branded HD-B-SAE 10 oil is filled in from the works from 1st October till February inclusive, and HD-B-SAE 20 oil from 1st

b) Oil bath air filter:

Remove oil basin (22 III. 12) and top-up to mark with the same brand of oil as used in engine.

c) Cooling water

escape before removing it completely. In this case steam escapes with excess pressure. Lift radiator cap (14 III. 3) very slowly and let excess pressure If possible, check when engine is cold. Be careful when checking cooling water straight after shutting engine off.

cooling water (frost-proof up to — 20° C). When taking engine over and when frost is expected check cooling wa Attention: The machines are shipped from the works all the year round with an anti-freeze mixture contained in the ter concentration. It necessary, add anti-treeze mixture

9 The V-belt (27 III. 11) has the right tension if you can press it with your fingers approx. 1 cm between the fan and dynamo pulleys. For re-tightening V-belt slacken both screws of belt bracket and press dynamo outwards till the V-belt has the right tension. Tighten screws (80 and 81 III. 11).

<u>e</u> Filling fuel tank:

Ventilate (bleed) fuel system. Open screw (74 III. 9) till fuel comes out without bubbles. Use only clean diesel oil. Dirty fuel causes excessive wear of fuel injection pump and injection nozzle.

f) Governor housing

If the tractor is on level ground the oil should be visible at the centre of the oil sight glass. Oil level sight glass (31 III. 2) 0,75 ltr. SAE 20 engine oil.

g) Gearbox:

Rear:

Front: Oil level sight glass (41 III. 1) SAE 80 gear oil Oil level sight glass (40 III. 2) SAE 80 gear oil

If the machine is on level ground the oil should be visible at the centre of the oil sight glass.

Hydraulic oil supply tank: SAE 20 HD-B oil for diesel engines, lubricate nipples (S 1 – S 9 – see III. 1, 2, 3, 5). First remove protective coating of paint from lubrication nipples.

D) Taking tractor into service

1. Preparations

- a) Shift selector lever (1 III.1) to neutral.
- b) Move throttle lever (32 III. 2) to approx. 3/4 revs.
- C) Insert key into ignition (8 III. 4) so that red charging lamp (9 III. 4) lights up:
- d) Push blue starter knob of injection pump (37 III. 10).
- <u>e</u> Push starter knob on dashbord (11 III. 4), release starter knob as soon as engine springs to life
- f) Move throttle lever back to low revs.

2. Driving

Before using selector lever throttle down to idling speed (32 III. 2). Depress clutch pedal (36 III. 2) Open hand brake (3 III. 2).

clutch pedal slowly. Control speed within selected gear range with throttle (32 III. 2). Preselect desired gear range with preselector lever (2 III. 2). Engage gear lever (1 III. 1) (gear shift diagram see III. 13). If the selected gear proves difficult to engage depress clutch pedal (36 III. 2) a second time (never use force). Release

measures. Wheel weights increase safety with the implements you use the overturning angle of your tractor under consideration of all safety When driving on rising ground, and particularly when turning on slopes be very careful. Test yourselves

Never run engine in unventilated space!

Danger of poisoning through carbon oxyde!

3. Braking

parking the tractor on rising ground use suitable chocks, shut engine off, engage low gear and lower attached dependently on all four wheels. The hand brake (3 III. 1) is released by pushing the button of the handle grip. When The foot brake (21 III. 1) is used when the tractor is moving. The brakes have the advantage of acting at any time inimplements.

If the tractor is used with trailer attached local safety regulations must be observed

4. Trailer Lighting

headlight beam of the tractor, must not be more than 400 mm. Also the trailer must be equipped with rear reflectors, traffic indicators and braking lights. The 7-pole socket is commercially available under the number DIN 72576. Traffic regulations in Germany prescribe that the distance between tractor and outer trailer edge, as measured on the

The use of any trailed vehicle behind the tractor, particularly drive axle or other trailers, Always pay attention to your local traffic and safety regulations. is at your own risk!

5. Diff-Lock

lock foot pedal (35 III. 4). With differential locked the tractor must be steered straight ahead only. The diff-lock rigidly locks the two front wheels to prevent either of them from slipping. To apply diff-lock press diff-

6. Track width adjustment

ward. The fenders can be adjusted to the relevant track width. Tyres of all four wheels must be the same. following reasons: Check wheel nuts from time to time, particularly after changing wheels. Larger tyre sizes should be avoided for the To alter track width change both pairs of wheels from right to left. Make sure that arrow on tyre always points for-

- a) they may give higher road speeds than permitted by local traffic regulations
- they will interfere with the steering lock.
- c) they will put too much stress on the transmission.

The use of hub spacers is not permissible

Hydraulic Lift

provided with a second hydraulic connection (25 III. 4). position. At the bottom of its travel the lever is held and the implement in its floating position. The control valve is The lift arms (66 III. 2) are actuated through lever (34 III. 4). The intermediate lever position (0) locks the implement in

the ground to avoid accidents. Caution! When parking a tractor unattended, or even during working breaks, the implement should be lowered to

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8. Stopping Tractor

Let engine run idle, throttle engine revs., shift selector lever (1 III. 1) into neutral, put on hand brake (3 III. 1).

9. Shutting engine off
Let machine run idle for a short while. Move throttle lever(32 III. 2) downward to idle position. Remove ignition key (8 III. 4).

E) Service and maintenance

(See service chart F on pages 34 and 35).

- a) Change oil in oil tank, rinse oil tank and clean oil filter (70 III. 9) after every 200-250 operation hours. Use only high-grade branded oil for diesel engines. (See page 26 C 1-a).
- b) Ventilation ("bleeding"
- bubbles. Open hollow screw (84 III. 11) of oil pump till suction pipe has been bled as well. Attention: After every oil change open ventilation screw of oil filter (69 III. 9) and wait till oil comes out without
- <u>C</u> After 500 hours remove oil drip plate (75 III. 9) and oil drip strainer (76 III. 9) and wash. The graphite seal (77 III. 9) must be fitted in a way that the two slots lie diagonally across the longitudional axis of the machine. (See III. 9). The seal should be replaced. Tighten four hexagon screws uniformly.
- d) Clean exhaust and outlet ports after every 100 hours of operation. Use an angular stick of wood to decarbonize outlet port (x III. 10). Thereby bring piston in a position that outlet port is closed from inside (See III. 10). Burn exhaust pipe out and loosen oil carbon deposits by tapping the exhaust pipe from outside.
- e Oilbath air filter. Clean according to dirt development, if necessary daily. Remove oil basin (22 III. 12) and filter inset (79 III. 12) and wash with diesel oil. Let filter inset dry well and fill oil basin with fresh engine oil up to mark
- Change oil in gearbox for auxiliary pumps after 1000 operation hours. Drain oil on drain plug (30 III. 9) and refill on filler plug (39 III. 9) with 0,75 ltr. SAE 20 HD-B oil to centre of sight glass (31 III. 9).

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9 Cooling system

If frost is expected check cooling water concentration (see $C-1\,c$).

Re-tighten V-belt (see C - 1 d).

Clean radiator. Remove dirt deposits by blowing from engine side through radiator shutter with compressed air, or with a jet of water

五 Replacing fuel filter (29 III. 2).

The filter of the fuel tank (29 III. 2) must be replaced after approx. 500 operation hours. The fuel filter cannot be cleaned.

The fuel system must be ventilated (bled)

- a) before starting engine for the first time if fuel tank is empty
- b) when fuel filter is replaced, or if air has entered pipes.

 Open ventilation screw (74 III. 9) of injection pump.

 Tighten ventilation screw only after fuel has come out without bubbles
- Max. revs. Max. engine revs. must not be exceeded. If set screw (73 III. 9) is re-adjusted any warranty claims must be rejected by the manufacturers!

2. Tractor

a) Battery maintenance

above upper edge. Use only distilled water. Grease connection terminals lightly with acid-free Vaseline Check battery (18 III. 1) every 4 weeks, in tropical countries every two weeks. The acid level must be 10–12 mm

<u>o</u> Grease all lubrication nipples (S 1 - S 9) after every 200-250 operation hours (monthly). If "Molykote" grease turn steering to full lock. is available use same to grease lubrication nipples of upper and lower universal shafts (2 each). For this purpose

c) Front gearbox

Change oil for the first time after 500 hours, then every 2500 hours. The front gearbox holds 1,5 ltr. SAE 80 gear oil. Drain screw (15 III. 2), oil sight glass (41 III. 1), oil filler screw (44 III. 1).

d) Rear gearbox

SAE 80 gear oil. In horizontal position of the tractor the oil should be visible at the centre of the sight glass Change oil for the first time after approx. 500 hours, then after every 2500 hours. The rear gearbox contains 3,2 ltr. (40 III. 2). Drain screw (68 III. 7), filler screw (43 III. 1).

<u>e</u>) oil.) Automatic ventilation on ventilation filter (19 III. 1) actuated by lowering and lifting hydraulics several times Hydraulic oil change for the first time after 500 hours, then every 2500 hours. (Approx. 1,6 ltr. HD-B SAE 20 engine Clean ventilation filter after every 500 operation hours with diesel oil (19 III.1).

Brakes and lighting system

such as shaft of the clutch, brake pedal bearings etc. should be given a few drops of oil every week. service station. This should be particularly done if the tractor is frequently used on public roads. All moving parts, Have brakes, clutch and lighting system checked from time to time, at least once a year, through an accredited

Washing tractor

Before washing down the machine with water, disconnect battery terminals or, still better, remove battery entirely. Before putting tractor away for any length of time clean it thoroughly and lubricate well. Protect air filter and governor switch from direct contact with water.

h) Transporting persons

safety regulations. Transporting of persons is not permissible unless a suitable seat has been provided. Pay attention to your local

When handing tractor over to client. If possible give all instructions in the presence of tractor owner or his authorized person

After every 8-10 operation hours (daily).

operation hours. After every 100

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Grease all lubrication nipples. Check oil level of engine and gearbox.

oil for diesel engines. For temperatures below O°C HD-B-SAE 10, from 0- +30°C HD-B-SAE 20 and over +30°C HD-B-SAE 30. From the works the machines are filled with HD-B-SAE 20 oil from 1st March till September, and with HD-B-SAE 10 oil from 1st October till February inclusive. Engine: Max. oil level at upper mark of diprod. Use only clean branded HD-B

b) Oil quantity in gearbox for auxiliary pumps (engine): check at sight glass c) Rear transmission: oil level at centre of sight glass. SAE 80 gear oil.
d) Front transmission: check oil level at sight glass. SAE 80 gear oil.

Re-tighten all screws, particularly wheel

Check oil level in air filter, if necessary

Check cooling water level. If frost is top-up with engine oi

expected check concentration

Check hydraulic oil (HD-B-SAE 20). Check tyre pressure. 1,0 atm.

tractor and hydraulic system Irial run engine and check function 악

Check whether tractor is complete. Check tool kit.

Give instructions in accordance with operation manual. Before taking tractor into service, in the presence of

client: and oil change. Explain cooling system. If frost is expected check Check oil level in engine. Explain lubrication system

cooling water concentration. Check V-belts for tightness.

Rear transmission; explain sight glass and oil change. Front transmission: explain sight glass and oil change. Point out lubrication nipples, oil control screws and lubrication points.

9 Explain cleaning of ventilation filter and hydraulic

Check oil level of air filter and explain cleaning Explain fuel filter and ventilation of fuel pipes.

Explain outlet ports and cleaning of exhaust Point out to battery service.

'n. Check tyre pressure, 1,0 atm.
Check function of engine and transmission. Demonstrate diff-lock and hydraulic lift. Point out to necessity of discharging hydraulics and lowering implements when parking tractor. (Danger of accidents.)
Check electrical system. Explain fuse box and battery

service.

Demonstrate implements in the field

Explain servicing of implements according to operation manual.

Make out service check book and fill in 1st check.

. 55. Fill in warranty file card and return to Messrs. Holder. Pay attention to local safety and traffic regulations.

> Check oil level Oil quality see column A - 2 a to max. mark. engine. Top-up 5

clean air tilter dust development Depending on

 a) Check cooling water level, if and top-up with resh engine oil.

₾ grille. clean radiator If necessary check and reeze mixture increase antinecessary

of engine. and outlet port Check stop bolts. Clean exhaust

mecessary top-up with HD-B-SAE 20 Check oil level engine oil auxiliary pumps (engine), it in gearbox for

ယ N Check oil level of sight glass. rear gearbox on

with SAE 80 gear Front transnecessary top-up lateral sight glass, if oil level on mission: Check

HD-SA =

×for SAE 20 level of level sdwno

Theck ox on

do-do

80 gear taust port bolts

> owner or his authorized person. explanations given in the presence of the tractor After every 200–250 Operation hours. If possible all jobs should be carried out and all

Latest 6 months after handing machine over. If possible all jobs should be carried out and all explanations given in the presence of the tractor owner or his authorized person. After every 450-500 operation hours.

vice Station: carried out through an accredited Holder Ser-After every 2500 operation hours.
We recommend to have the following.

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- <u>..</u>
- <u>e</u> il change in engine.
 Drain and rinse oil tank. Clean oil filter and fill in fresh engine oil. (Oil quality see column A.) Ventilate filter basin of oil filter and oil suction pipe!
- 5 If necessary clean oilbath air filter and renew oil. Check V-belt tension.
- pressed air, check cooling water and if frost is expected add anti-freeze mixture. Grease all lubrication nipples (S), particution of the control of the con ೬೦ If necessary, clean radiator fins with com-
- Check complete electrical system, including larly of universal shafts.
- Check clutch play and if necessary Play of clutch pedal approx. 1–2 cm. Check brakes, if necessary readjust. battery. readjust.
- ighten all screws.
- œ demonstration of implements. Fill in 2nd Service Cheque. Check tyre pressure 1,0 atm. Test drive and if necessary repeated practical
- 9

SAE 80 gear oil:
front transmission, rear transmission
HD-B-SAE 20 engine oil: hydraulic system, gearbox for auxiliary pumps (engine)
HD-B-SAE 10, HD-B-SAE 20, HD-B-SAE 30: depending on outside temperatures.

tront transmission, rear transmission

In case of excessive loss of oil look for cause!

- 2. Oil change in engine (see column E-1 a.)

 a) Clean oil sump and strainer.
 b) Check nozzle holder for tightness.
 Replace fuel filter in tank. (Do not clean.) Rinse
- ယှ fuel tank. Hydraulic oil. Check oil level of hydraulic oil supply tank in
- b) Change hydraulic oil for the first time, thereofter every 2500 operation hours (1,6 ltr. HD-BSAE 20 oil).
- c) Clean hydraulic ventilation filter in alessi vii. Change oil in gearbox for the first time, therechange oil in gearbox for the first time, thereafter every 2500 operation hours. SAE 80 gear oil. Front gearbox 1,5 ltr., rear gearbox 3,2 ltr. Steering. Clean hydraulic ventilation filter in diesel oil
- 'n Check steering play and if necessary use shims.
- Check stop boil

Make out 3rd service cheque

- a) Renew oil filling in gearbox for auxiliary pumps (engine). Oil o HD-B-SAE 20 engine oil. 0 quantity
- b) Check compression pressure.
 c) Drain engine oil. Refill with HD-B c for diesel engines (see column E-1 a).
 d) Check delivery of lubrication oil pump. ٥.
- ကည Check engine clutch. Have fuel injection pump checked through a Bosch Service Station.
- Change oil in gearbox Front gearbox: 1,5 ltr., SAE 80 gear oil. rear gearbox 3,2 ltr.
- Change hydraulic oil (1,6 ltr. HD-B-SAE 20 Check steering play.
- engine oil). Check silent bloc shock absorber, if necessary replace
- Re-tighten all screws.
- 5 % & Remove and rinse fuel tank. Replace filter.
- Make out 4th cheque

The following oils correspond to the above mentioned specification and are recommended by us:

4. GASOLIN GASOLIN HD SAE 10 W GASOLIN HD SAE 20-W-20 GASOLIN HD SAE 30	3. ESSO Essolube HDX SAE 10 W Essolube HDX SAE 20 Essolube HDX SAE 30	2. BPBP Vanellus-T-SAE 10BP Vanellus-T-SAE 20BP Vanellus-T-SAE 30	 ARAL ARAL diesel engine oil SAE 10 W ARAL diesel engine oil SAE 20 W/20 ARAL diesel engine oil SAE 30
= SAE 10 W	= SAE 10 W	= SAE 10 W	= SAE 10 W
= SAE 20	= SAE 20	= SAE 20	= SAE 20
= SAE 30	= SAE 30	= SAE 30	= SAE 30
8. VEEDOL VEEDOL Engine oil (Heavy duty plus) HD 901 Special VEEDOL Engine oil (Heavy duty plus) HD 902 Special VEEDOL Engine oil (Heavy duty plus) HD 903 Special	7. VALVOLINE VALVOLINE Super HPO SAE 10 VALVOLINE Super HPO SAE 20 VALVOLINE Super HPO SAE 30	6. SHELL SHELL Rotella Oil S SAE 10 W SHELL Rotella Oil S SAE 20 W/20 SHELL Rotella Oil S SAE 30	5. MOBIL-OIL MOBIL Delvac Oil 1210 MOBIL Delvac Oil 1220 MOBIL Delvac Oil 1230
= SAE 10 W	= SAE 10 W	= SAE 10 W	= SAE 10 W
= SAE 20	= SAE 20	= SAE 20	= SAE 20
= SAE 30	= SAE 30	= SAE 30	= SAE 30

asked whether their recommended oils are in conformity with the American Military Specification der tractor owners, in the light of these instructions. This means, that the relevant mineral oil companies should be Our foreign agents are requested to check the oils they have so far recommended, and which are being used by Hol-

MIL-L-2104 B

G) Three-point Linkage

of the reversible plough the fixing bracket (A III. 6) points downwards (see III. 6). For attachment of the rotary hoe a bly is turned through 180° (see III. 7). flat iron is fitted in place of the adjustable upper linkage arm. For attachment of the mower the linkage carrier assem-The link carrier assembly (63 III. 6 and 7) is fixed in two different positions, depending on implement. For attachment

Three-point Linkage for vertical lift

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used For all cultivators and similar implements the linkage carrier ass. (62 III. 8) with short upper linkage arm (67 III. 8) is

Trailer hitch:

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permissible weight not exceeding 2000 kg. The trailer hitch type 3050 is not automatic and must only be used for the attachment of **single-axle** trailers with a

H) How to value a tractor?

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A motorcar is generally valued according to driven kilometers and age.

A tractor is best valued according to operation hours and age, with the following guiding principles:

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- Selector lever
- Selector lever (preselection)
- Hand brake lever
- 4. P.T.O. selector lever
- Warning light
- 6. Horn button
- Blinker switch
- 8. Ignition lock with light switch
- 9 Charging control lamps
- 10. Fuse box
- 11. Starter knob
- Fuel (diesel oil) tank cover
- Cover of lubricating oil container (engine)
- 13a. Diprod
- Radiator cover
- Oil drain plug/front gearbox
- 16. Hydraulic pump
- 17. Cyclone preselector
- Battery
- Ventilation filter of hydraulic oil supply tank
- Brake light switch
- Brake pedal
- Oil tank of air filter

- 23. Air-filter
- 24. Regulator and cut-out
- Second hydraulic connection for additional implements
- Dynamo
- 27. V-belt for dynamo
- 28. Spark plug holder
- 29. Fuel filter
- Oil drain screw of gearbox for auxiliary pumps (engine)
- auxiliary pumps (engine) Oil sight glass of gearbox for
- 32. Throttle lever
- 33. Starter
- 34. Hydraulic operation lever
- Foot lever for front diff-lock
- Clutch pedal
- 37. Starter knob (blue)
- and LH (engine) Cooling water drain plug RH
- 39. Oil filler screw (gearbox for auxiliary pumps (engine)
- 40. Oil level sight glass, rear gearbox
- Oil level sight glass, tront gearbox
- 42. Hydraulic cylinder
- Oil filler screw, rear gearbox

- Oil filler screw front gearbox
- Tractor serial number
- Tool box
- 47. Injection nozzle
- Traffic indicators
- 49. Seat buffers
- Rear light
- Rear reflector
- Licence plate light
- 7-pole socket
- 54. Pin for link carriers and trailer hitch
- Left drawroc
- Lock
- 57. Field bar
- 58. Upper linkage arm, long
- Lower linkage arm
- 60. Right drawrod (adjustable)
- 61. Standard splined P.T.O. shaft Link carrier ass., long tor
- vertical lift
- 63. Link carrier ass. short for 3-point linkage

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- Trailer hitch
- Pin for trailer hitch
- 66. Hydraulic lift arms
- 67. Upper linkage arm, short

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mission	68. Oil drain screw, rear trans-
(emb	78. Engir

69. Ventilation screw of oil filter

Oil suction pipe, filter-oil pump

Set screw for idling speed

Set screw for max. revs.

Fuel ventilation screw

Oil drip plate (cover)

Oil collector strainer

Graphite seal

ne serial number

79. Filter cartridge (wire gauze)

80. Hex. nut for V-belt tension

Dynamo fixing screws

Suction pipe of oil return pump

Oil return pipe to oil tank

Oil suction pipe for oil

delivery pump

<u>8</u>5. Lubrication nipple of fan Oil pressure pipe

> S S2—4 Lubrication nipples of universal shafts Lubrication nipple of steering

S6 column Lubrication nipple of

clutch pedal

S7-8 hydraulic shaft Lubrication nipple of

Lubrication nipple of hydraulic cylinder

S9

dessou grena

Au ma

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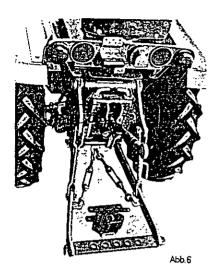
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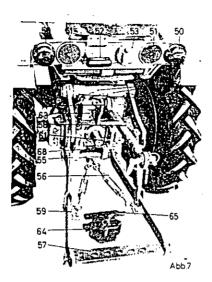
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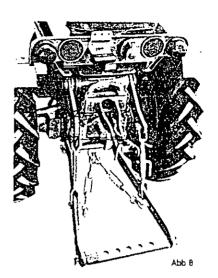
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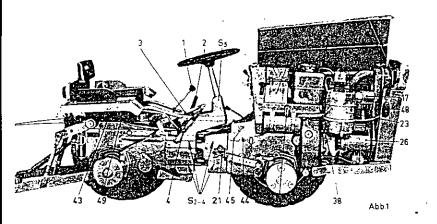
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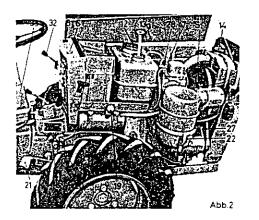
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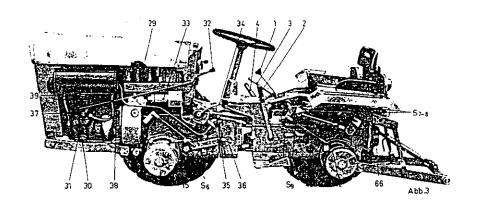




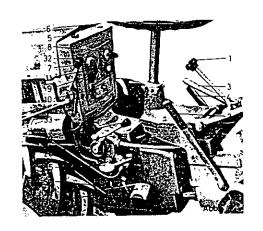




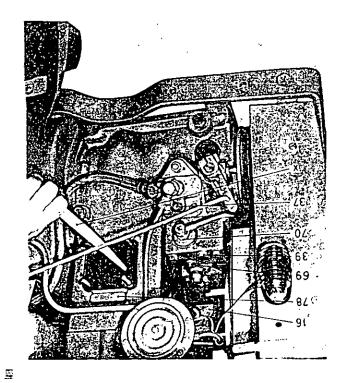


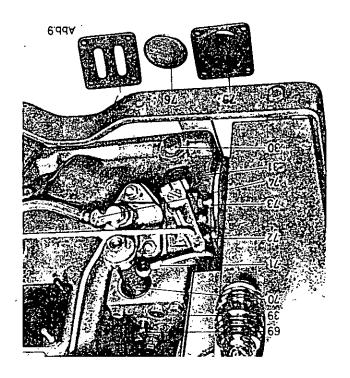


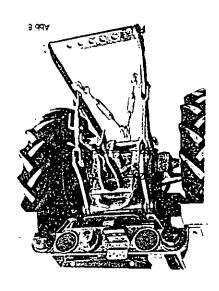


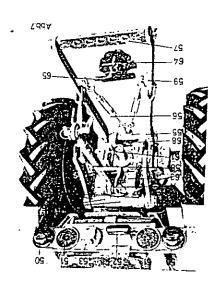


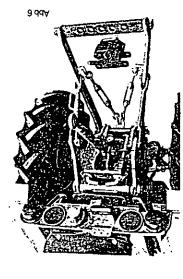


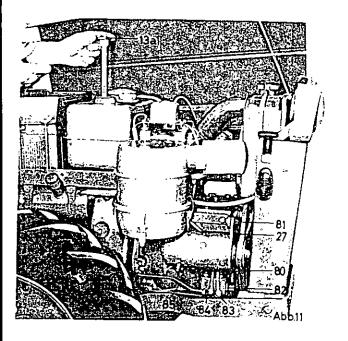




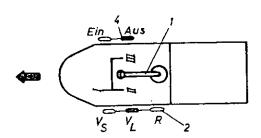


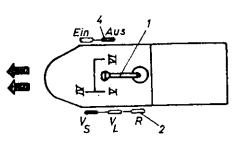


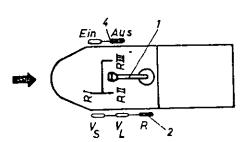












- Selector lever
- Selector lever (preselection)
- Hand brake lever
- 4. P.T.O. selector lever
- Warning light
- Horn button
- 7. Blinker switch
- Ignition lock with light switch
- 9 Charging control lamps
- 10. Fuse box
- 11. Starter knob
- Fuel (diesel oil) tank cover
- Cover of lubricating oil container (engine)
- 13 a. Diprod
- 14. Radiator cover
- Oil drain plug/front gearbox
- 16. Hydraulic pump
- 17. Cyclone preselector
- 18. Battery
- Ventilation filter of hydraulic oil supply tank
- 20. Brake light switch
- 21. Brake pedal
- 22. Oil tank of air filter

- 23. Air-filter
- 24. Regulator and cut-out
- 25. Second hydraulic connection for additional implements
- 26. Dynamo
- V-belt for dynamo
- 28. Spark plug holder
- 29. Fuel filter
- Oil drain screw of gearbox for auxiliary pumps (engine)
- Oil sight glass of gearbox for auxiliary pumps (engine)
- 32. Throttle lever
- 33. Starter
- 34. Hydraulic operation lever
- Foot lever for front diff-lock
- Clutch pedal
- 37. Starter knob (blue)
- Cooling water drain plug RH and LH (engine)
- Oil filler screw (gearbox for auxiliary pumps (engine)
- Oil level sight glass, rear gearbox
- Oil level sight glass, front gearbox
- 42. Hydraulic cylinder
- Oil filler screw, rear gearbox

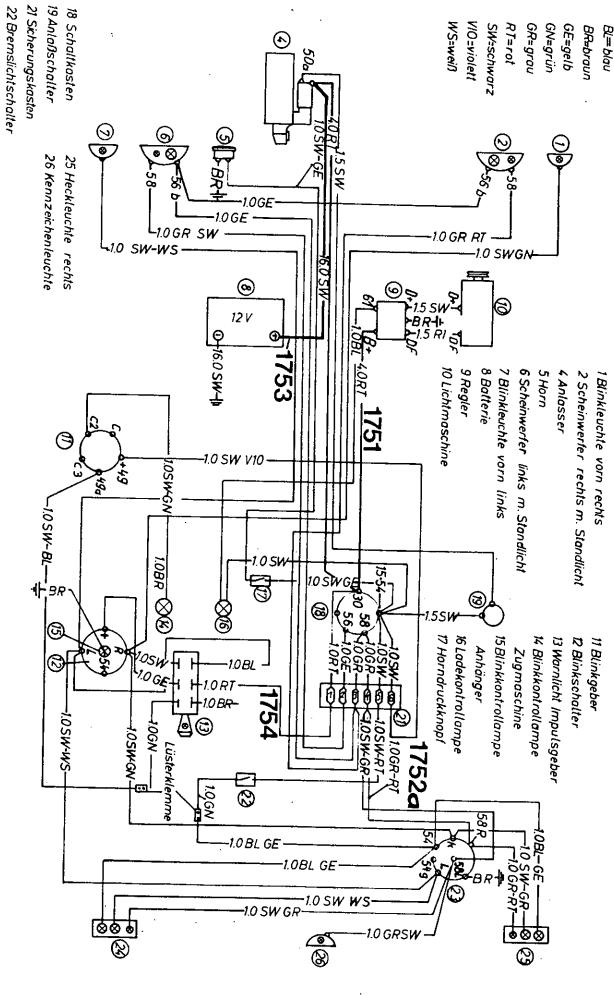
- 4. Oil filler screw front gearbox
- 45. Tractor serial number
- 46. Tool box
- 47. Injection nozzle
- 48. Traffic indicators
- 49. Seat buffers
- 50. Rear light
- 51. Rear reflector
- 52. Licence plate light
- 53. 7-pole socket
- 54. Pin for link carriers and trailer hitch
- 55. Left drawrod
- 56. Lock
- 57. Field bar
- 58. Upper linkage arm, long
- 59. Lower linkage arm
- 60. Right drawrod (adjustable)
- 61. Standard splined P.T.O. shaft
- 62. Link carrier ass., long for vertical lift
- 63. Link carrier ass. short for 3-point linkage
- 64. Trailer hitch
- 65. Pin for trailer hitch
- 66. Hydraulic lift arms
- 67. Upper linkage arm, short

- 68. Oil drain screw, rear transmission
- 69. Ventilation screw of oil filter
- 70. Oil filter
- 71. Oil suction pipe, filter-oil pump
- 72. Set screw for idling speed
- 73. Set screw for max. revs.
- 74. Fuel ventilation screw
- 75. Oil drip plate (cover)
- 76. Oil collector strainer
- 77. Graphite seal

- 78. Engine serial number (embossed)
- 79. Filter cartridge (wire gauze)
- 80. Hex. nut for V-belt tension
- 81. Dynamo fixing screws
- 82. Suction pipe of oil return pump
- 83. Oil return pipe to oil tank
- 84. Oil suction pipe for oil delivery pump
- delivery pump 85. Oil pressure pipe
- S1 Lubrication nipple of fan blade

- S2-4 Lubrication nipples of universal shafts

 S5 Lubrication nipple of stee
- S5 Lubrication nipple of steering column
 S6 Lubrication nipple of
- clutch pedal
 S7-8 Lubrication nipple of
- S7—8 Lubrication nipple of hydraulic shaft
 S9 Lubrication nipple of



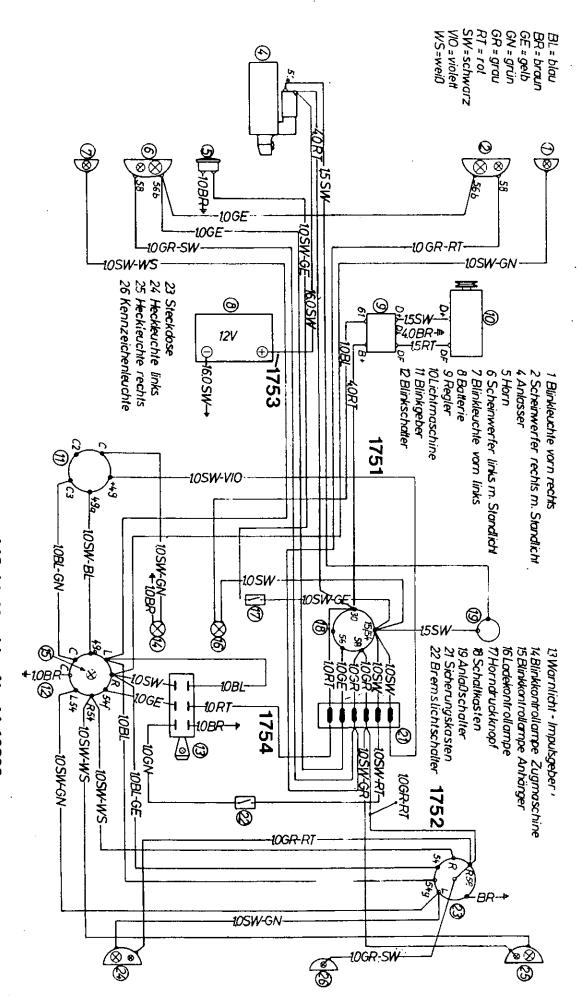
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A 15 / A 16

Bildtafel — table — tableau — tabla — No. 26

A15 ab Maschine Nr. ca. 1 11981 A16 ab Maschine Nr. 11 10207



A16, bis Maschine Nr. 11 10206 A15, bis Maschine Nr. ca. 1 11980 Bildtafel — table — tableau — tabla — No. 25