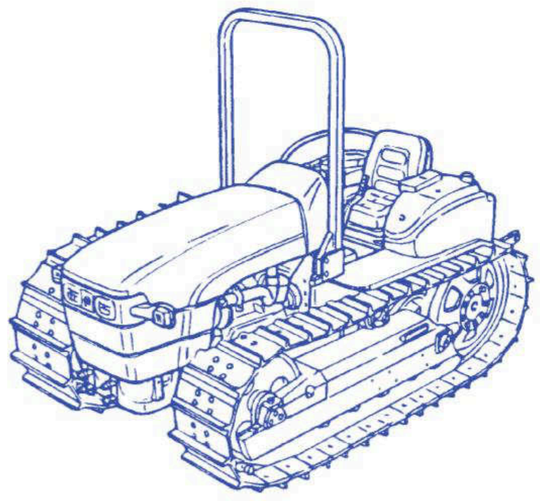


NEW HOLLAND

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CONSUMABLES

COMPONENT TO BE FILLED OR TOPPED UP	QUANTITY dm^3 (gallons)	RECOMMENDED NEW HOLLAND PRODUCTS	NEW HOLLAND SPECIFICATIONS	INTERNATIONAL SPECIFICATIONS
Cooling system: - models TK65, TK75 ..... - models TK76, TK85, TK95	 10.5 (2.31) 13.0 (2.86)	Water & liquid **AMBRA AGRIFLU 50% + 50%**	NH 900 A	-
Fuel tank: - models TK65, TK75 ..... - models TK76, TK85, TK95	 80 (17.6) 129 (28.38)	Decanted and filtered diesel fuel	-	-
Engine sump: without filter: - models TK65, TK75 ..... - models TK76, TK85, TK95 with filter: - models TK65, TK75 ..... - models TK76, TK85, TK95	 6.7 (1.47) 10.5 (2.31) 7.3 (1.61) 11.2 (2.46)	**AMBRA SUPER GOLD 15W - 40** oil or **10W - 30**	NH 330G (SAE 15W-40) NH 24G (SAE 10W-30)	API CF-4/SG CCMC D4 MIL-L-2104E
Steering clutches	1.4 (0.31)	**AMBRA SUPER** oil **10W**	NH 301 C	API CE CCMC D4 MIL-L-2104C SAE 10W
Transmission: (gears, bevel drive, brakes and hydraulic lift) - models TK65, TK75 ..... - models TK76, TK85, TK95 Track tension wheel, carriage rollers, track support rollers	 33.3 (7.32) 39.0 (7.92) -	**AMBRA MULTI F** oil	NH 420 A	API GL4 ISO 46/68 SAE 20W-30
Final drives (each)	2.0 (0.44)	**AMBRA HYPOIDE 90** oil	NH 520 A	API GL5 MIL-L-2105D SAE 80W-90
Grease fittings	-	**AMBRA GR9** grease	NH 710 A	NLGI 2

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SECTION 10 - ENGINE

Chapter 1 - Engine

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GENERAL SPECIFICATIONS	3 cylinders	4 cylinders
Engine, technical type:		
- model TK 65 - type 8035.05.421 (BOSCH pump)	See data on page 6-7	-
- model TK 75 - type 8035.25.421 (BOSCH pump)	See data on page 8-9	-
- model TK 76 - type 8045.06.421/521 (BOSCH pump) .	-	See data on page 10-11
- model TK 85 - type 8045.05.421/521 (BOSCH pump) .	-	See data on page 12-13
- model TK 95 - type 8045.25L.421 (BOSCH pump)	-	See data on page 14-15
Cycle	diesel, 4-stroke	
Injection	direct	
Number of on-line cylinders	3	4
Cylinder liners	dry force-fitted in cylinder block	
Piston diameter		
- models TK 65, TK 75	104 mm (4.0945 in.)	-
- model TK 76	-	100 mm (3.937 in.)
- models TK 85, TK 95	-	104 mm (4.0945 in.)
Piston stroke	115 mm (4.37 in.)	
Total displacement:		
- model TK 65	2931 cm^3 (0.6447 gal.)	-
- model TK 75	2931 cm^3 (0.6447 gal.)	-
- model TK 76	-	3613 cm^3 (0.7947 gal.)
- model TK 85	-	3908 cm^3 (0.8596 gal.)
- model TK 95	-	3908 cm^3 (0.8596 gal.)
Compression ratio for models TK 65, TK 76 and TK 85	17 to 1 normally aspirated	
Compression ratio for models TK 75 and TK 95	16.5 to 1 turbocharged	
Maximum power:		
- model TK 65	44.5 kW (60 Hp)	-
- model TK 75	54 kW (72 Hp)	-
- model TK 76	-	53 kW (71 Hp)
- model TK 85	-	58.8 kW (80 Hp)
- model TK 95	-	66.5 kW (90 Hp)
Maximum power speed - models TK 65, TK 75	2300 rpm	
Maximum power speed - TK 76, TK 85, TK 95	2500 rpm	
Maximum torque speed - model TK 65	1400 rpm	-
Maximum torque speed - model TK 75	1400 rpm	-
Maximum torque speed - model TK 76	-	1500 rpm
Maximum torque speed - model TK 85	-	1500 rpm
Maximum torque speed - model TK 95	-	1500 rpm
Number of main bearings	4	5
Sump pan	structural, cast iron	

(continued)

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ENGINE TROUBLESHOOTING

Problems	Possible causes	Remedies
Engine does not start	1. Battery partially discharged	Check and recharge battery. Replace if necessary
	2. Battery terminal connections corroded or loose	Clean, inspect and tighten terminal nuts. Replace terminals and nuts if excessively corroded
	3. Injection pump timing incorrect	Adjust injection pump timing
	4. Impurities or water in fuel lines	Disconnect fuel lines from injection pump and clean thoroughly. If necessary clean and dry the fuel tank
	5. No fuel in tank	Fill tank
	6. Fuel supply pump malfunction	Check and replace pump if necessary
	7. Air in fuel system	Check fuel lines, unions, supply pump, filters and injection pump for air, then bleed system; then bleed the air from the circuit
	8. Starter motor faulty	Repair or replace starter motor
	9. Thermostarter faulty	Check and replace thermostarter if necessary
Engine stalls	1. Idle speed too low	Adjust idle speed
	2. Injection pump delivery irregular	Check injection pump delivery on test bench
	3. Impurities or water in fuel lines	Disconnect fuel lines from injection pump and clean thoroughly. If necessary clean and dry the fuel tank
	4. Fuel filters clogged	Replace the filter cartridges
	5. Valve/rocker arm abnormal clearance	Adjust the clearance between the rocker arms and the valves
	6. Burnt or cracked valves	Replace the valves
	7. Air in fuel system	Check fuel lines, unions, supply pump, filters and injection pump for air, then bleed system; then bleed the air from the circuit
	8. Injection pump drive mechanism damaged	Replace damaged parts

(continued)

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CHECKS, DIMENSIONS AND REPAIRS - CONNECTING RODS

CAUTION

Handle all parts carefully.
Do not put your hands or fingers between parts.
Wear suitable safety clothing - safety goggles, gloves and shoes.

Clean all parts carefully before proceeding with the operations described below.

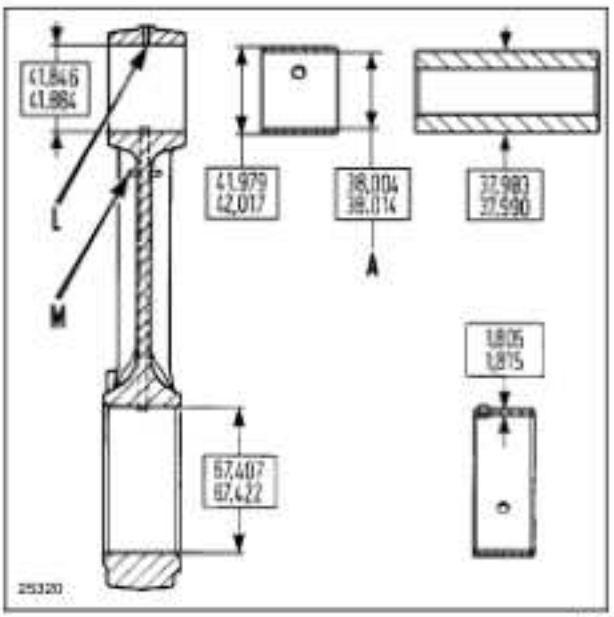
Check that the bushings in the connecting rod small ends are tight in their bores and are flush with the sides of the rods.

If necessary, replace the bushings and ream after fitting to the specified diameter (A) shown in the drawing 107.

Dimensions (mm) of standard connecting rods, bearing shells, bushings and gudgeon pins

A. Dimensions to obtain by reaming after fitting bushings

L, M. Oil ports.



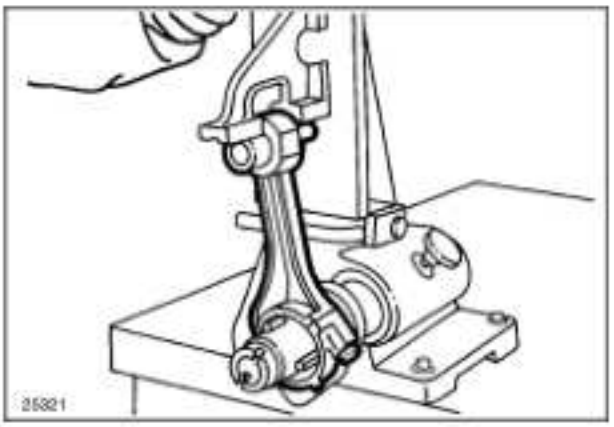
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Check parallelism of small end and big end axes. Maximum permitted tolerance is ± 0.07 mm (0.0027 in.) measured at 125 mm (4.9212 in.) from the longitudinal axis of the connecting rod.

Slightly twisted con rods can be straightened using a press. Severely deformed rods should be replaced.

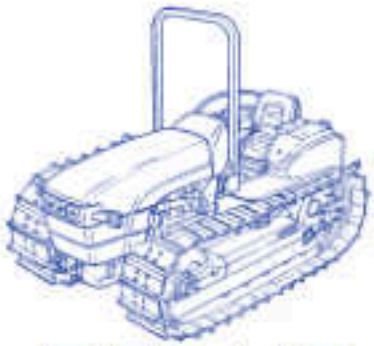
New con rods must be marked with the number of the cylinder in which they are to be fitted; check that the difference in weight of the connecting rods in the same engine does not exceed 25 g (0.055 lbs.).

Also check that the oil ways (L and M, fig. 107) are not obstructed by scale or impurities.



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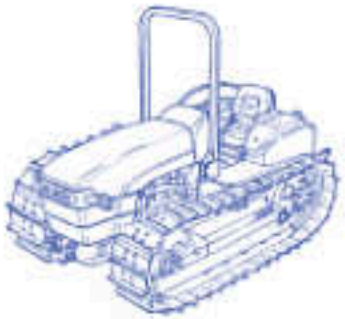
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Section 27 - Rear Mechanical Wheel Drive
Section 31 - Mechanical Power Take-Off
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Section 35 - Hydraulic Lift
Section 46 - Steering Clutches

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Section 48 - Suspension and Tracks
Section 55 - Electrical System

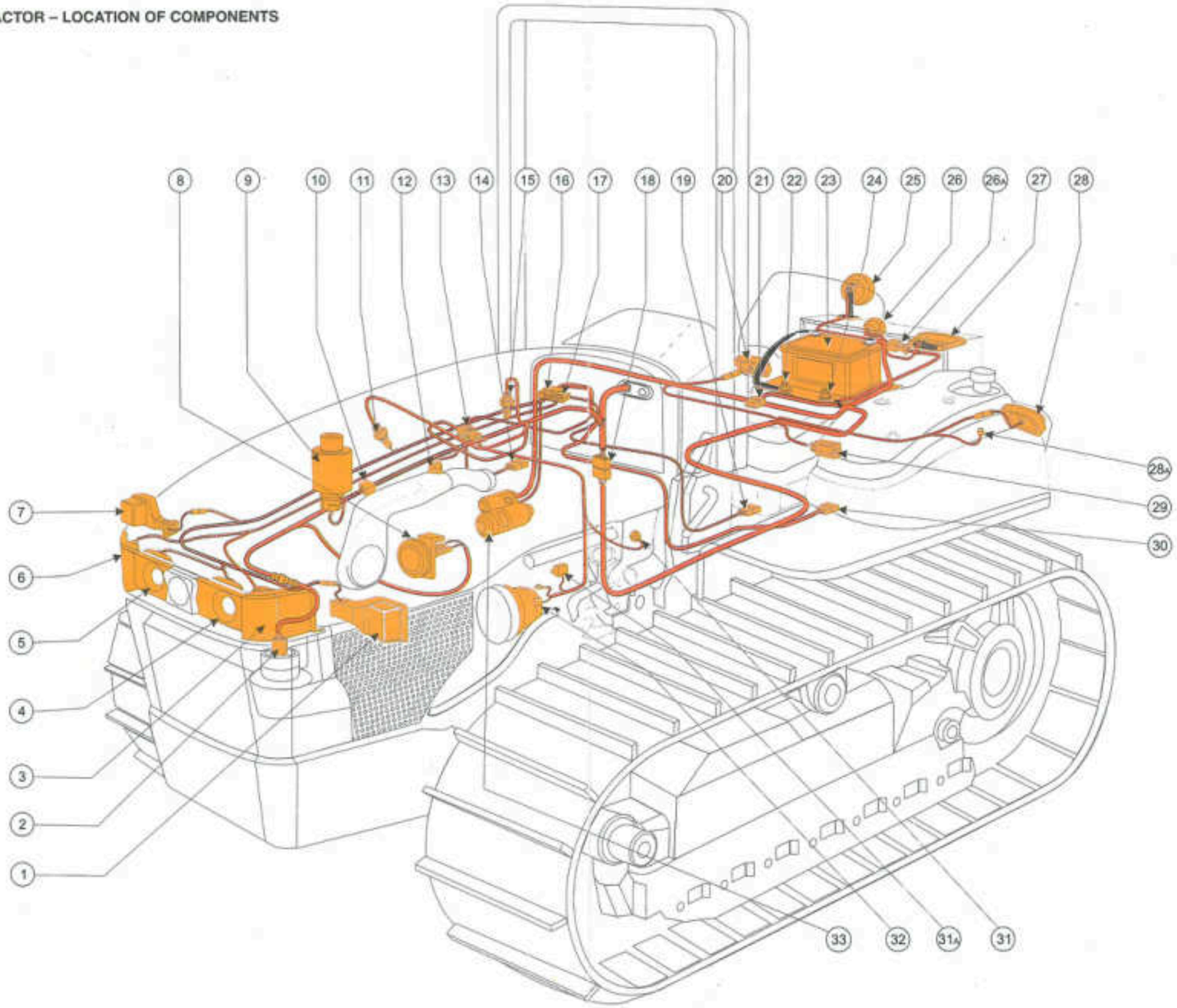
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TRACTOR – LOCATION OF COMPONENTS



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