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MANUAL PREVIEW

**Deutz**

**Operator's Manual**

**D4007, D5607, D4807,  
D5207, D6007, D6507,  
D7007, D7207 & D7807**

Operator's Manual

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**DE-O-D4007+**

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All tractor equipment is described in this manual, also taking into consideration special accessories which are not normally included in the scope of supply.

No claims can be derived from the descriptions as to the equipment of tractors supplied or to be supplied.

The technology of **DEUTZ-tractors** is being improved continuously. Therefore, the technical data and illustrations in this manual are of a non-binding nature and we reserve the right of future changes and modifications.

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## Prestarting Checks

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It is of utmost importance to be fully conversant with all devices, controls and instruments and their respective functions before starting the tractor.

During operation it is too late to do so!

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## Operation of tractor

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Check tractor prior to each operation with respect to safety on the road and safety of operation.

Adhere to the respective Road Traffic Code, when driving on public roads!

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**Engine Exhaust Air Heating Box**

The heating box **1** is attached to the exhaust air side of the engine.

The heating box flap **2** is controlled via a Bowden wire **3** which actuates the control lever.



**Heating Air Control – Infinitely Variable**

Pull control lever **4** downwards – heating box flap **2** is opened, the engine exhaust air escapes (summer operation).



**Operation of Heating**

Lever **4** upwards – heating box flap **2** is closed.

When the heating box **1** is closed, the warm air flows through two hoses into the foot room.

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## Tractive Operation

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Particular caution will be necessary when coupling up trailers and implements.

Mount trailers and implements only with the specified devices.

Observe the permissible rear axle load!

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# Operation of Implements

During Mobile or Stationary  
Operation

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Prior to PTO shaft operation be sure that the PTO shaft torque matches that of tractor and implement.

Non-adherence can cause serious damage to implements and leads to accidents!

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## Control of Implements

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In order to avoid damage to the cab and/or to the rear portion of the tractor by semi-mounted implements or trailers in all possible operating positions, first carry through a trial mounting and a short test run. Special caution is necessary in consideration of the maximum lifting height of three-point implements and of the narrowest turns of trailers!

When negotiating bends with semi-mounted or coupled up implements, the broad turning radius and the centrifugal momentum of the implements must be taken into consideration.

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# Track Adjustment

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All clamping screws and nuts of front and rear wheels must be retightened after 20 hours of operation with the specified tightening torques (page 127). This retightening provision must also be observed after each track adjustment and after each wheel change.

The particular bolt connections which are to be retightened are described in the respective chapters "Front track adjustment" and "Rear track adjustment".

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## Service and Maintenance

Servicing intervals, operating agents and filling volumes can be found in the folded servicing chart.

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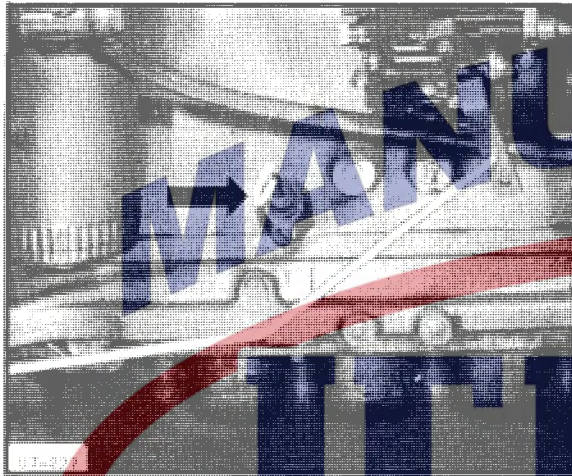


Carry out all maintenance work only with the engine shut off. If necessary, secure tractor against rolling away.

For servicing and maintenance, the panels and engine hood can be taken off or lifted.

After finishing the service and maintenance works, all panels and hoods which had been lifted for this purpose must be refitted and all protection devices must be remounted again, according to the provisions.

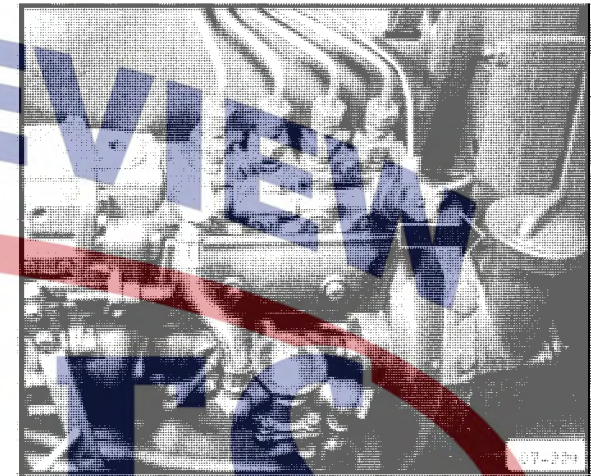
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**Checking of Engine Oil Level**



**Changing of Engine Oil**



**Adding Fresh Oil** ®



to be performed daily before starting to work.  
Position the tractor on level ground.  
Pull out the oil dipstick, wipe it off with a lint-free cloth, re-insert the dipstick and pull it again.

The oil level is correct if it is between the marks on the oil dipstick.

Replenish with oil if necessary.



**Position the tractor on level ground.**

The engine should still have operating temperature.

Be careful when draining oil. The oil is hot and may scald you!

The illustration shows the oil sump from below.

Unscrew oil drain plug. When the oil has run out completely, screw drain plug in again, and check for proper sealing.

Add fresh oil through oil filler neck.

The oil level is correct if it is between the marks on the oil dipstick.

Store waste oil in the waste oil collecting tank.

**For oil specification and filling volume, see technical data pages 131 and 132.**

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## Electrical System

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Any work on the electrical system should be exercised with extreme care.

Special caution should be observed during all work on the battery.

The gases emitted by the battery are explosive. Therefore, avoid formation of sparks and open flames in the vicinity of the battery. Do not smoke.

Do not let acid touch your skin or clothing.

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## D 45 07, D 45 07 A

without Ballast Support, with Protective

### Frame – Physical Dimensions with Tyres 7.50–16/14.9–28

|                                       |              |
|---------------------------------------|--------------|
| Wheel base                            | 1995 mm      |
| Length                                | 3460 mm      |
| Width                                 | 1730 mm      |
| Height up to steering wheel           | 1550 mm      |
| up to protective frame                | 2370 mm      |
| Ground clearance under front axle     | 460 mm       |
| Front track width – telescopic axle   | 1390–1890 mm |
| Rear track width – adjustable wheel   | 1320–1720 mm |
| Turning radius without steering brake | 3.8 m        |
| Bare operating weight                 | 2160 kg      |
| Gross vehicle weight                  | 3500 kg      |

### 4-Wheel Version with Tyres 7.50–18/14.9–28

|                                                             |         |
|-------------------------------------------------------------|---------|
| Wheel base                                                  | 2060 mm |
| Ground clearance under differential and front axle          | 270 mm  |
| Front track width                                           | 1380 mm |
| Turning radius                                              | 4.6 m   |
| Bare operating weight incl. power lift and protective frame | 2460 kg |
| Gross vehicle weight                                        | 3500 kg |

### Engine

|                                                                              |                      |
|------------------------------------------------------------------------------|----------------------|
| DEUTZ-3-cylinder four stroke diesel engine with direct injection, air-cooled | F3L 912              |
| Engine speed                                                                 | 2300/min             |
| Bore                                                                         | 100 mm               |
| Stroke                                                                       | 120 mm               |
| Piston displacement                                                          | 2827 cm <sup>3</sup> |

### PTO Shaft

|                                             |               |
|---------------------------------------------|---------------|
| Diameter                                    | 1 3/8"        |
| Max. permissible torque                     | 1470 Nm       |
| Engine PTO shaft 540/min at engine speed    | 2070/min      |
| Dual PTO shaft 540/1000/min at engine speed | 2080/2135/min |

### Transmission

|                                                 |         |         |
|-------------------------------------------------|---------|---------|
| DEUTZ-transmission                              | TW 35.2 | TW 35.4 |
| Number of gears forward/reverse                 | 8/2     | 8/4     |
| Number of gears forward/reverse with creep gear | 12/4    |         |

### Travelling Speeds in km/h with Tyres 14.9–28

| Transmission | TW 35.2 |      | TW 35.4 |      |     |      |
|--------------|---------|------|---------|------|-----|------|
| Range        | L       | S    | L       | S    | R   | K    |
| 1st gear     | 1.9     | 8.3  | 2.1     | 6.3  | 2.4 | 0.43 |
| 2nd gear     | 2.6     | 11.1 | 3.4     | 10.1 | 3.8 | 0.68 |
| 3rd gear     | 3.9     | 17.0 | 4.9     | 14.7 | 5.6 | 0.99 |
| 4th gear     | 5.5     | 25.0 | 8.3     | 25.0 | 9.4 | 1.67 |
| R-gear       | 2.6     | 11.1 | –       | –    | –   | –    |

### Power Lift

|                                                |            |
|------------------------------------------------|------------|
| Power lift model                               | K 45       |
| Oil fill                                       | 12.0 l     |
| Fluid throughput                               | 34.7 l/min |
| with hydraulic block steering gear             | 39.6 l/min |
| Available oil fill without/with auxiliary tank | 7.0/21.0 l |
| Operating pressure                             | 175 bar    |
| Lifting force at drawbar (1900 kp)             | 18650 N    |

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