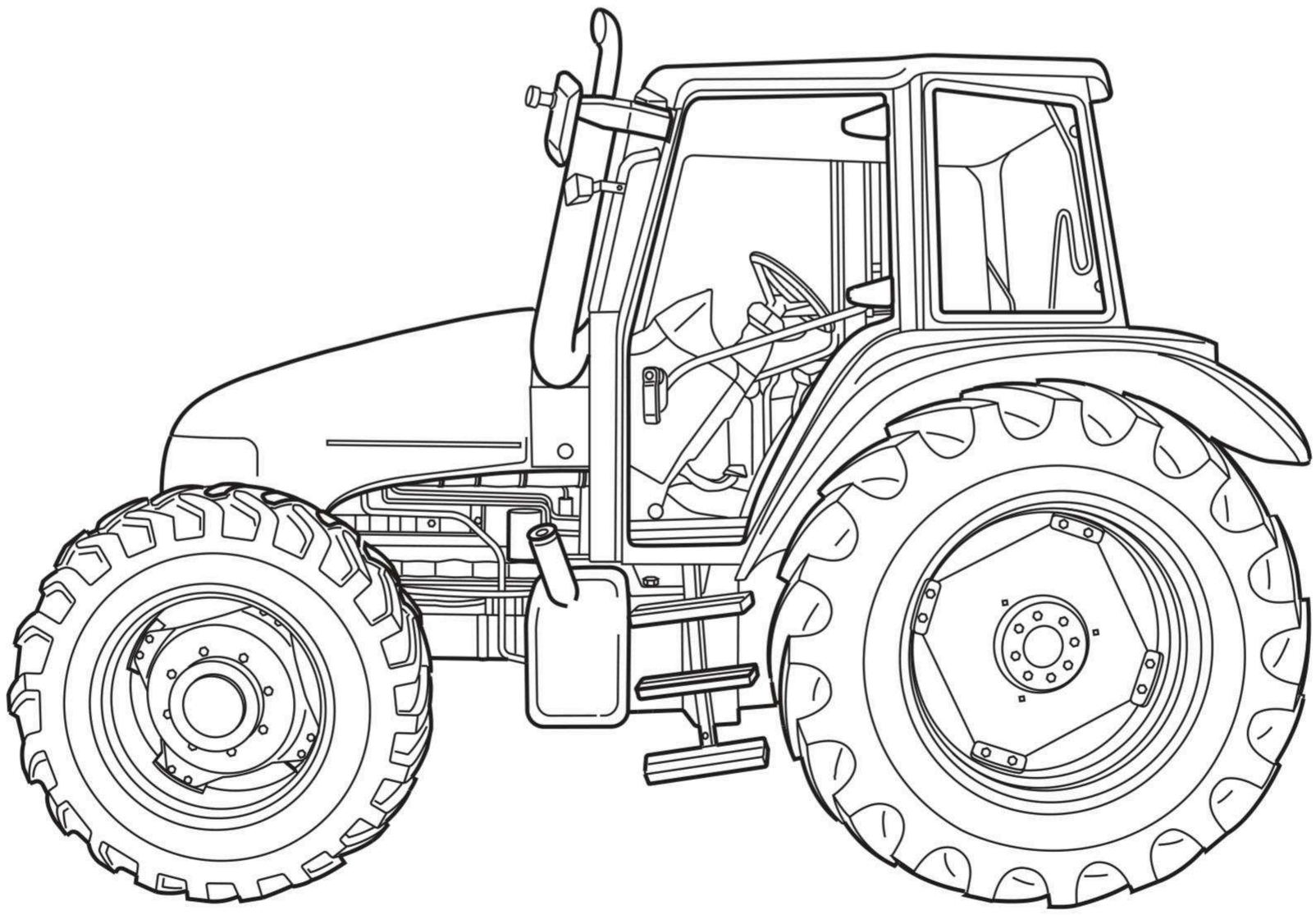
OPERATOR'S MANUAL

TS90
TS100
TS110
TS115

Tractors



Part Number 6045329100

1st edition English

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OPERATING THE TRACTOR

1. Before starting the tractor, apply the parking brake, place the P.T.O. control in the 'OFF' position, the lift control lever in the down position, the remote control valve levers in the neutral position and the transmission levers in neutral.

2. Do not start the engine or operate controls (other than the external hydraulic lift switches) unless you are sitting in the tractor seat. Always sit in the tractor seat when starting the engine or operating the controls.

3. Do not bypass the transmission and P.T.O. neutral start switches. Consult your New Holland dealer if your neutral start controls malfunction. Use jump leads only in the recommended manner. Improper use can result in a tractor runaway.

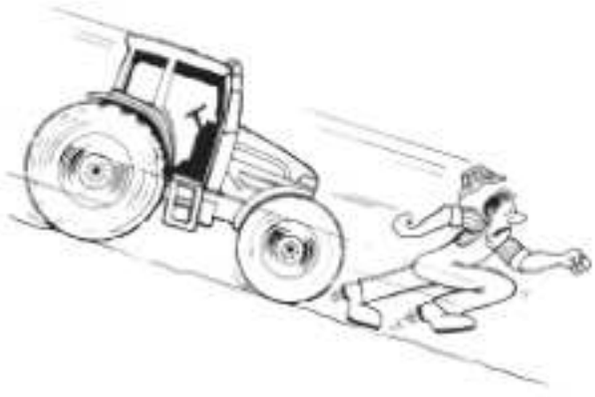


4. Avoid accidental contact with the gear shift levers while the engine is running as unexpected tractor movement can result.

5. Do not get off the tractor while it is in motion.

6. If the power steering or engine ceases operating, stop the tractor immediately as the tractor will be more difficult to control.

7. Before leaving the tractor, park the tractor on level ground, apply the parking brake, lower attached implements to the ground, disengage the P.T.O.and stop the engine,.



8. Do not park the tractor on a steep incline.

9. The cab is designed to provide the minimum noise level at the operator's ears and meets or exceeds applicable standards in this respect. However, noise (sound pressure level) in the workplace can exceed 85 dB(A) when working between buildings or in confined spaces, with cab windows open. It is recommended that operators wear suitable ear protectors when operating in high noise level conditions.



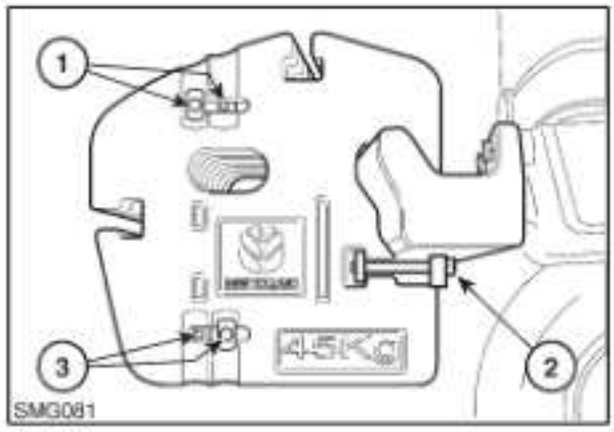
10. Do not run the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes are toxic and can cause death.

11. Pull only from the pick-up hitch, swinging drawbar or the lower link drawbar in the lowered position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to overturn.

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45 kg front weights - Figure 202

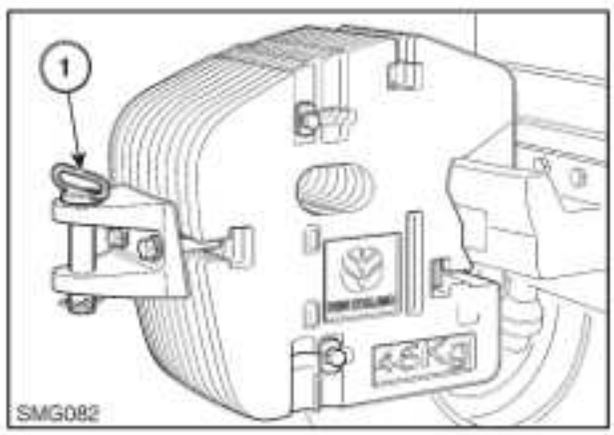
45 kg (99 lb.) wafer weights are available as a set of 6, which, together with the weight carrier, weighs 360 kg (794 lb.). Alternatively, these weights are available as a set of 10 weighing 540 kg (1190 lb.) or, for 4WD models only, as a set of 18 weighing 900 kg (1984 lb.) including weight carrier.
The weights are clamped together by means of the long through bolts (1) and (3) and secured to the carrier by the clamp bolts (2).



202

The weights may be removed as a complete set with the aid of suitable lifting gear. Loosen the clamp bolts (2) and slide the clamp assembly sideways out of the weight pack. With a lifting bar passed through the central hole, the complete weight set may now be lifted off the carrier.

Alternatively, the weights can be removed individually after loosening the clamp bolts and removing all four through bolts (1) and (3).



203

⚠ WARNING ⚠

The tractor must not be operated unless all four through bolts and the clamp bolts are in position with the bolts tightened to 169 Nm (125 lbf.ft.). Recheck the bolt torques after 50 hours of operation.

A towing facility is built into the weight carrier. However, if the weights are installed a tow pin (1) Figure 203, is available that clamps onto the front of the weight pack.

If the front weights and weight carrier are not installed, a tow pin is available for bolting directly to the front axle support. See Figure 201.

LIQUID BALLAST

Filling the front and rear tyres with liquid ballast is a convenient method of adding weight. A solution of calcium chloride and water is recommended. This gives a low freezing point and provides a higher density than plain water.

NOTE: *Liquid ballasting of front tyres on a two wheel drive installation is not recommended.*

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EVERY 600 HOURS carry out the preceding checks plus the following:

OPERATION 23
CHANGE THE HYDRAULIC OIL FILTERS
- Figures 65 to 67

NOTE: *This operation should be carried out every 600 hours, unless the indicator light on the instrument panel signals an earlier service requirement. See* Analogue and Analogue/Digital Instruments *and* Electronic Instrument Panel *in section 2.*

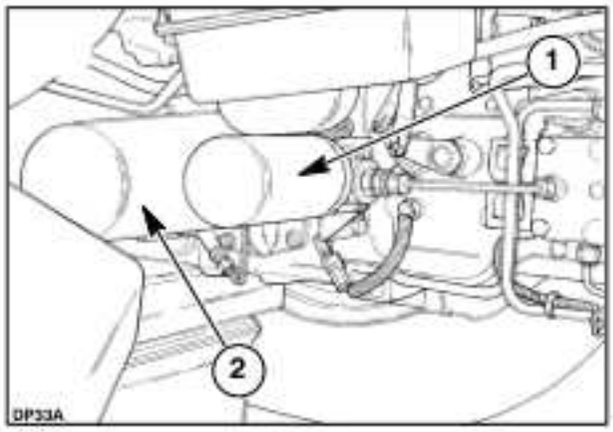
Clean the area around the hydraulic oil filters, then unscrew and discard the filters shown in Figures 65, 66 and 67, dependent upon the type of hydraulic pump installed in your tractor.

If your tractor has a tandem gear pump, then it will have a single filter (2) Figure 65, mounted horizontally beneath the right-hand side of the cab or platform. If it also has Dual Command transmission then a second, smaller filter (1), for the transmission oil, will also be installed. The transmission oil filter (1) requires changing every 300 hours. See operation 19.

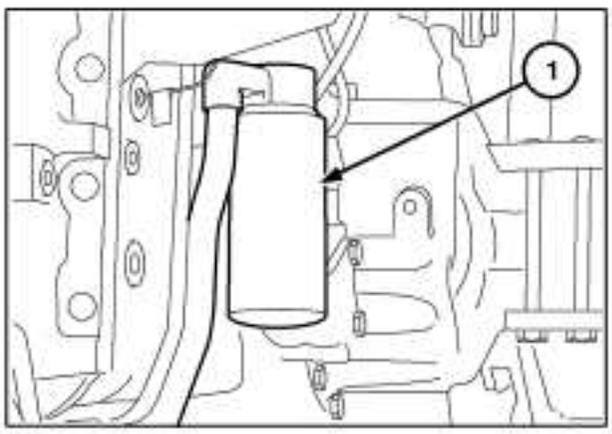
If your tractor is additionally fitted with an auxiliary, engine-mounted, gear pump, the filter is remote from the pump and will be found beneath the left-hand side of the cab or platform, as shown at (1) Figure 66.

Tractors with a CCLS pump have three filters installed under the right-hand side of the cab or platform, as shown in Figure 67. The charge pressure filter (1) is mounted horizontally. The charge pump suction filter (2) and the steering pump suction filter (3) are mounted vertically.

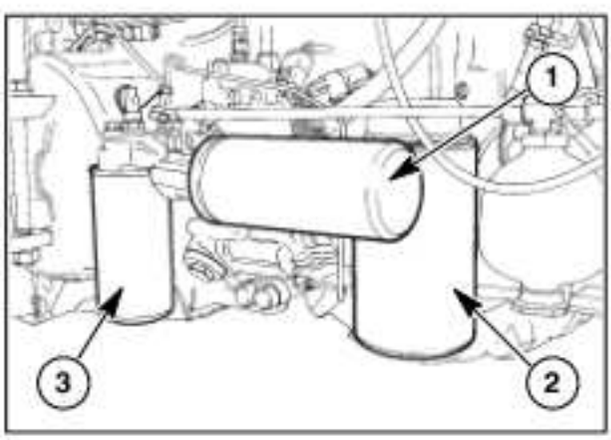
Clean the face of each filter mounting point. Smear clean oil around the rubber seal of each new filter and install on the tractor. Screw up until the faces just meet, then tighten a further $^{3}/_{4}$ of a turn. Do not overtighten.



65



66



67

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