

**De Luxe Seat - Figure 1**

The suspension is adjusted by means of a knob (1) on the back of the seat frame. Turn the knob clockwise to increase suspension stiffness and provide a firmer ride. Turn the knob anti-clockwise and the seat suspension will become softer. The optimum suspension setting is achieved when the indicator (2) registers your approximate weight, when seated.

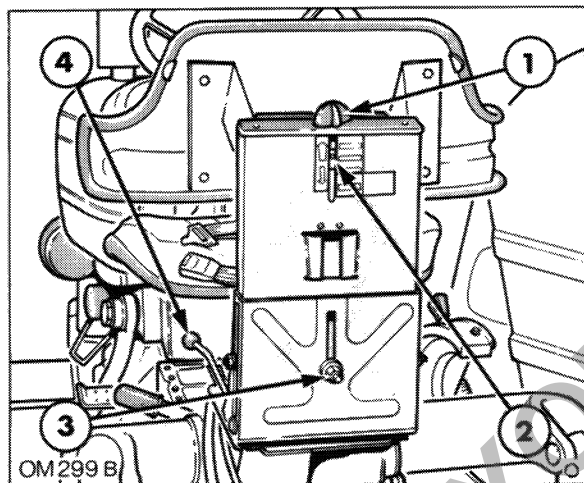


**Fig. 1. De Luxe Seat (where fitted)**

1. Suspension adjuster
2. Weight indicator
3. Ride height adjuster
4. Travel adjustment lever

To adjust seat height, loosen the nut (3) and raise or lower the seat, as required. Tighten the nut.

The lever (4) controls seat travel. Lift the lever and slide the seat forward or backward, as required. When the lever is released, the seat will lock in the position selected.

Further travel is possible after loosening the two bolts securing the seat frame to the hydraulic top cover.

**Seat Belt (where fitted)**

**! WARNING:** *In some countries, tractors equipped with a safety frame or rollbar (ROPS) are also fitted with a seat belt. Always use the seat belt with a safety frame or rollbar installed. Do not use a seat belt if the tractor is not equipped with a safety frame or rollbar, or with folded rop's in lowered position.*

The seat belt is of the static type. To fasten the belt, pull the belt from the reel, insert the tongue into the buckle until a 'click' indicates it is properly engaged. Press the red button on the buckle to release the belt.

To lengthen the belt, lift up the buckle and pull to your left. To tighten, pull on the free end of the belt.

The belt may be sponged with clean, soapy water. Do not use solvents, bleach or dye on the belt as these chemicals will weaken the webbing. Replace the belt when it shows signs of fraying, damage or general wear.

**INSTRUMENT PANEL-GAUGES AND WARNING LIGHTS****General**

The instrument panel, Figure 2, comprises of three gauges and four coloured lights which provide operating information or give warning of system malfunction.

The instruments are illuminated when the tractor lights are turned on.

**Proofmeter**

The proofmeter (1) consists of a tachometer and hour meter. The tachometer indicates engine revolutions per minute. Each division on the scale represents 100 rev/min., therefore with the needle indicating '20' the engine is running at 2000 rev/min.

| Hours Operated                |    | Service Requirements                                                                                                                                                                                                                                                                | Check                           | Clean           | Lube   | Change          | Adjust           | Drain | Wash |
|-------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|--------|-----------------|------------------|-------|------|
| Every 10 hours or daily       |    | Engine oil level<br>Radiator and oil cooler (where fitted)<br>Radiator coolant level<br>Pre-Filter<br>Hydrostatic steering oil level                                                                                                                                                | X<br>X<br>X<br>X<br>X           | X<br><br>X      |        |                 | X<br>X<br>X      |       |      |
| When warning light glows      |    | Dry air cleaner (where fitted)                                                                                                                                                                                                                                                      |                                 | X               |        |                 |                  |       |      |
| Every 50 hours                | *  | Clutch pedal free play<br>Fuel filter/sediment separator<br>Wheels and tires<br>Belt pulley oil level (where fitted)<br>Transmission/hydraulics rear axle oil level<br>Four wheel drive oil levels<br>All grease fittings<br>Battery (tractors operating in tropical climates only) | X<br>X<br>X<br>X<br>X<br>X<br>X |                 | X      |                 | X<br>X<br>X<br>X | X     |      |
| Every 300 hours               | ** | Battery (tractors operating in temperate climates only)<br>Engine oil and filter<br>Hydraulic oil filter<br>Brakes<br>Safety frame bolts<br>Fan/alternator belt<br>Dry air cleaner outer element                                                                                    | X<br><br>X<br>X<br>X<br>X       |                 |        | X<br>X          | X<br>X<br>X<br>X |       | X    |
| Every 600 hours               | #  | Dry air cleaner outer element<br>Starter motor pinion<br>Hydrostatic steering oil and filter<br>Front wheel bearings (two wheel drive)<br>Valve tappet clearance<br>Rocker cover ventilation filter<br>Fuel filter/sediment separator                                               | X<br>X<br>X<br>X<br>X           | X<br>X<br><br>X | X<br>X | X<br><br>X<br>X | X<br>X<br>X      |       |      |
| Every 1200 hours or annually  |    | Fuel injectors<br>Transmission/rear axle oil<br>Four wheel drive oils<br>Dry air cleaner inner element                                                                                                                                                                              | X<br><br><br>X                  | X<br><br><br>   |        | X<br>X<br>X     | X                |       |      |
| Every 1200 hours or two years |    | Engine coolant                                                                                                                                                                                                                                                                      |                                 |                 |        | X               |                  |       |      |
| As required                   |    | General Maintenance                                                                                                                                                                                                                                                                 |                                 |                 |        |                 |                  |       |      |

\* Tractors operating in tropical climates only. Batteries on tractors operating in temperate climates need only be checked every 300 hours. See operation 33.

\*\* Oil change interval will be reduced if the diesel fuel has a high sulphur content, if rape seed fuel is used or if the tractor is operated in extremely cold temperatures. See page 16 of this section.

# Frequency depends upon clutch usage. See operation 43.

## TRACTOR SPECIFICATIONS **C**

### GENERAL DIMENSIONS (two wheel drive)

**5610S****6610S****7610S**

Height to top of roll bar

in

95.7

95.7

95.7

Blurred on purpose. The manual you buy has this page in full quality.

## TO THE OWNER:

The warranty coverage that is extended to your tractor is explained in the Warranty and Limitation of Liability form. Your dealer will provide you with a copy of the warranty and retain a copy which you have signed. After you read the warranty, ask your dealer to explain any points that you may not understand.

This tractor was designed to power and propel itself. It is intended for use in normal and customary agricultural applications.

Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting an authorized New Holland dealer. If you have any questions regarding tractor modifications, contact New Holland North America, Inc., 500 Diller Ave., New Holland, PA 17557.

Your safety and the safety of those around you depends upon the care and good judgment you use while operating this equipment. Read the safety precautions carefully.

After you have operated the tractor for 50 hours, take your tractor and this manual to your selling dealer. He will perform the factory recommended 50-hour service. You will be responsible for the cost of lubricants, fluids, filters and other items replaced as part of normal maintenance. Prior to taking the tractor to your selling dealer for service, it is recommended that you contact them to determine any other charges for which you may be responsible.

All data given in this book is subject to production variations. Dimensions and weights are approximate only and the illustrations do not necessarily show tractors in standard condition. For exact information about any particular tractor please consult your New Holland dealer.



**CAUTION:** THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER PERSONAL SAFETY IS INVOLVED. TAKE TIME TO READ AND FOLLOW THE INSTRUCTIONS. BE CAREFUL!

**CAUTION:** PICTURES IN THIS MANUAL MAY SHOW PROTECTIVE SHIELDING OPEN OR REMOVED TO BETTER ILLUSTRATE A PARTICULAR FEATURE OR ADJUSTMENT.

**BE CERTAIN, HOWEVER, TO CLOSE OR REPLACE ALL SHIELDING BEFORE OPERATING THE MACHINE.**

## IMPROVEMENTS

New Holland North America, Inc. is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

# INDEX

|                                                           |               |
|-----------------------------------------------------------|---------------|
| 8x2 Transmission .....                                    | A10           |
| A.S.C. and remote control valves .....                    | C7            |
| Access panels .....                                       | B3            |
| Alternator .....                                          | B36           |
| Attaching P.T.O. driven equipment .....                   | A13           |
| Auxiliary pump .....                                      | A27           |
| Battery .....                                             | B16-17        |
| Battery temperature compensation .....                    | B37           |
| Bleeding remote cylinders .....                           | A26           |
| Brake adjustment .....                                    | B19           |
| Brakes .....                                              | C8            |
| Capacities .....                                          | C9            |
| Clutch pedal free play .....                              | B11           |
| Controls, instruments and operation .....                 | Section A     |
| Coolant immersion heater .....                            | A7            |
| Cooling system .....                                      | C5            |
| Changing the P.T.O. output shaft (two-speed P.T.O.) ..... | A15           |
| Checking engine oil level .....                           | B6            |
| De luxe remote control valves (standard) .....            | A23           |
| De luxe seat .....                                        | A2            |
| Diesel fuel .....                                         | B2            |
| Drain fuel filter .....                                   | B11           |
| Driving the tractor .....                                 | A12           |
| Dry air cleaner .....                                     | B20-21        |
| Dry air cleaner inner element .....                       | B29           |
| Dual power transmission .....                             | A10           |
| Electrical equipment .....                                | C7            |
| Engine .....                                              | C5            |
| Engine coolant .....                                      | B30           |
| Engine coolant recovery system .....                      | B6            |
| Engine coolant temperature gauge .....                    | A3            |
| Engine idle speed .....                                   | B39           |
| Engine oil and filter .....                               | B17           |
| Fan/alternator belt adjustment .....                      | B20           |
| Fender-mounted headlights .....                           | B33           |
| Flexible link ends .....                                  | A18           |
| Foot controls .....                                       | A9            |
| Four wheel drive .....                                    | A11, B13, B29 |
| Front tire pressure and permissible loads .....           | C11           |



NEW HOLLAND NORTH AMERICA, INC., AND  
NEW HOLLAND CANADA, LTD.

## WARRANTY AND LIMITATION OF LIABILITY - AGRICULTURAL PRODUCTS

### COVERAGE PROVIDED

New Holland North America, Inc. or New Holland Canada, Ltd., hereinafter called "Company" warrants to the retail purchaser of each new Product (as listed below) that the Selling Dealer will repair or replace any part thereof found to be defective in materials or workmanship within the following periods. This warranty is for the benefit of the original or subsequent purchaser when purchased from an authorized New Holland dealer.

### BASIC WARRANTY

| Product                                                                       | Warranty Period (whichever comes first)                   |
|-------------------------------------------------------------------------------|-----------------------------------------------------------|
| — Harvesting, Materials Handling Equipment and Implements                     | 12 Months                                                 |
| Extended New Holland Engines Warranty for Self Propelled Harvesting Products* | 24 Months or 2000 Hours                                   |
| — Tractors, 1000 thru 8000 Series (except as noted) and Model 9030            | 12 Months                                                 |
| Extended Power Train Warranty**                                               | 24 Months or 2000 Hours                                   |
| — Tractors, 8030 and 8070 Series                                              | 36 Months or 3000 Hours                                   |
| — Tractors, Articulated 4 Wheel Drive Models (except Model 9030)              | 24 Months or 2000 Hours                                   |
| — Replacement Parts                                                           | 90 days or to end of Basic Warranty (whichever is longer) |

\*Allison transmissions, Caterpillar, Cummins and Deutz engines are warranted by their respective manufacturers.

\*\*The components covered by extended warranty consists of the following:

**ENGINE** - The rocker arm cover, cylinder head, engine block, crankcase pan and timing gear cover of the engine, and the parts fully enclosed within these units.

**TRANSMISSION AND REAR AXLE (Tractors Only)** - The clutch housing, transmission case, dual power housing, differential housing, final drive housings, transfer case, front wheel drive housing, and parts fully enclosed within these housings, including the drive axles. Includes PTO clutch and PTO drop box, hydrostatic pump/motor and high pressure hoses on the Model 9030 tractors.

### LIMITATIONS, INCLUDING DISCLAIMER OF IMPLIED WARRANTIES AND CONSEQUENTIAL DAMAGES

This warranty gives you specific legal rights and you may also have other rights which vary, depending on state or provincial laws.

New Holland North America, Inc. or New Holland Canada, Ltd. does not authorize any person or dealer to create for it any other obligation or liability in connection with these products. TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS APPLICABLE TO THIS PRODUCT IS LIMITED TO THE STATED DURATION OF THIS WRITTEN WARRANTY. NEITHER COMPANY NOR THE SELLING DEALER SHALL BE LIABLE FOR LOSS OF THE USE OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS OR CONSEQUENTIAL DAMAGES.

Some states and provinces do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

The remedy of repair or replacement of a defective part during the warranty period herein specified shall be the purchaser's exclusive remedy.

### EXTENDED SERVICE PLAN (ESP)

When offered by the Company, the option to purchase an Extended Service Plan has been explained and:

- ☐ I accept and have signed the completed registration form
- ☐ I decline the Extended Service Plan
- ☐ I will consider within 180 days (12 months on 8070 series)

### PROTECTIVE EQUIPMENT

Rollover protective structure (ROPS) and seat belts are provided as standard equipment on all New Holland agricultural tractors and we strongly recommend their use. Customers who elect to remove or not use this protection do so at their own risk.

- I acknowledge the existence of OSHA regulations pertaining to ROPS. \_\_\_\_\_
- A PTO master shield, if applicable, has been installed on the machine. \_\_\_\_\_
- The correct Operator's Manual has been furnished. \_\_\_\_\_
- Safety precautions were explained to me by the Selling Dealer. \_\_\_\_\_

### ACKNOWLEDGEMENT/WARRANTY TRANSFER

The blank spaces under "Protective Equipment" have been filled in and are correct, and I acknowledge that I have read and I accept this Warranty and Limitation of Liability.

Purchaser \_\_\_\_\_

Dealer \_\_\_\_\_ Code \_\_\_\_\_

Address \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Model \_\_\_\_\_ Serial No. \_\_\_\_\_

Retail Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Attachment Model \_\_\_\_\_ SN \_\_\_\_\_

Extended Service Plan Expires on \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(Subject to confirmation by NH)

Attachment Model \_\_\_\_\_ SN \_\_\_\_\_

Purchaser \_\_\_\_\_ Date \_\_\_\_\_

Dealer \_\_\_\_\_ Date \_\_\_\_\_

Signature

Signature

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To engage the P.T.O., start the engine and ease the P.T.O. selector lever (1) Figure 15, toward the seat in order to clear the 'disengaged position' detent (2), then move the lever forward to engage the P.T.O.

Under normal conditions and with good quality equipment, the P.T.O. can be 'feathered' during engagement by gently moving the selector lever forward until the P.T.O. shaft just begins to rotate, pausing and then fully engaging the P.T.O.

**IMPORTANT:** To prevent premature wear of the P.T.O. clutch, do not 'feather' or slip the clutch for more than 2 seconds when engaging the P.T.O. Do not feather the clutch at all when disengaging the P.T.O.

**IMPORTANT:** To avoid shock loads to the P.T.O., reduce engine speed to approximately 1000 rev/min when engaging the P.T.O., then increase engine speed by means of the throttle to the recommended speed, as shown in the following table, to obtain 540 or 1000 rev/min at the P.T.O. shaft. Similarly, to avoid overstressing the tractor P.T.O. clutch brake, slow down the implement by reducing engine speed **before** disengaging the P.T.O. This is particularly important with implements having a high inertia. Such implements should always be fitted with an overrun clutch.

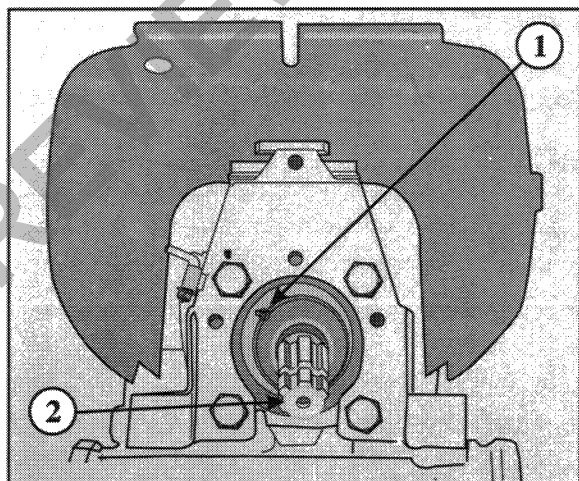


Fig. 16. P.T.O. shaft Replacement

1. Circlip
2. P.T.O. shaft

| Engine speed<br>rev/min.         | Shaft                    | P.T.O. speed<br>rev/min. |
|----------------------------------|--------------------------|--------------------------|
| Single-speed P.T.O.<br>1900      | not inter-<br>changeable | 540                      |
| Two-speed P.T.O.<br>1900<br>2060 | 6-spline<br>21-spline    | 540<br>1000              |

For most P.T.O. operations the speed of the tractor is controlled by selection of the appropriate gear ratio while maintaining the correct P.T.O. speed by means of the throttle.

### Changing The P.T.O. Output Shaft (two-speed P.T.O.)

Remove the circlip (1) Figure 16, and pull the shaft (2) from the housing. Clean the replacement shaft thoroughly, ensuring that the lubrication hole in the side of the shaft is free of dirt. Carefully insert the shaft and replace the circlip.

Protect the removed shaft by wrapping in a clean cloth and place in the tool box.

**IMPORTANT:** Never operate the tractor with the P.T.O. shaft removed. The shaft, when inserted, acts as a support for internal gears and bearings. Operation with the shaft removed will result in severe damage.

**IMPORTANT:** Tractors with Dual Power transmission - Powerdrive must be engaged (tortoise symbol illuminated) and both gear levers in neutral when operating stationary P.T.O. equipment otherwise damage to the transmission may occur due to overheating.

### THREE-POINT LINKAGE

Before attaching equipment to your tractor, study the whole of the following text:

- Ensure that the check chains are adjusted to suit the equipment.

When refitting or adjusting a wheel, tighten the bolts to the following torques then recheck after driving the tractor for 200 yards (200 m), after 1 hour and 8 hours operation and thereafter at the 50 hour service intervals:

Disc to hub nuts 288 lbfft. (390 Nm)

Disco to rim nuts 177 lbfft. (240 Nm)

## TRACTOR WEIGHTING

For maximum performance in heavy draft conditions weight should be added to the tractor in the form of liquid ballast, cast iron weights or a combination of both.

Front end ballast may be required for stability and steering control when weight is transferred from the front to the rear wheels as the implement is raised by the tractor three-point linkage.

For optimum performance and efficiency, the tractor should be ballasted so that approximately one third of the total tractor weight (less implement) is on the front wheels. Four wheel drive tractors should be ballasted so the weight on the front wheels is approximately 40 - 50% of the total tractor weight.

When a rear mounted implement is raised to the transport position, the weight on the front wheels should be at least 20% of total tractor weight.

Add additional front end ballast, as required, for stability during operation and transport. Ballasting of the front end may not always provide adequate stability if the tractor is operated at high speed on rough terrain. Reduce tractor speed and exercise caution under these conditions.

When using front mounted implements, add weight to the rear wheels to maintain traction and stability.

**IMPORTANT:** Only sufficient weight should be added to provide traction and stability. Adding

more weight than necessary results in unnecessary loads being imposed on the tractor and a higher fuel consumption. When adding weight, adhere to the maximum tire capacity loading stated in the tables at the end of this section. If further information or assistance is required on tractor weighting consult your New Holland dealer. Do not add weight to the outer wheels of a dual wheel installation.

When adding ballast the total weight of the tractor including liquid, cast iron weights and mounted equipment (where specified) should not exceed the maximum shown in the following tables:

**WARNING:** If proper stability cannot be achieved within the following weighting limitations, reduce the load on the tractor until stability is restored.

## Weighting Limitations

For optimum driveline reliability and tractive efficiency, maximum ballasted tractor weight (tractor plus ballast) must not exceed the following:

### Maximum Ballasted Weight - 2WD

|               |                    |
|---------------|--------------------|
| 5610 and 6610 | 10640 lb. 4836 kg. |
| 7610 and 7810 | 10800 lb. 4900 kg. |

### Maximum Ballasted Weight - 4WD

|            |                    |
|------------|--------------------|
| All models | 11400 lb. 5170 kg. |
|------------|--------------------|

Individual axles (front and rear) are also subject to weight limitations, as follows:

### Maximum Front Axle Loading\* - 2WD

|            |                   |
|------------|-------------------|
| All models | 5000 lb. 2268 kg. |
|------------|-------------------|

\* Includes a front end loader in the raised position but with no load in the bucket.

### Maximum Front Axle Loading# - 4WD

|               |                   |
|---------------|-------------------|
| 5610 and 6610 | 6305 lb. 2860 kg. |
| 7610          | 6750 lb. 3062 kg. |

Alternatively, compressed air, not exceeding 30 PSI (2 bar) may be used. Insert the air line nozzle inside the element and blow the dust from the inside through the element to the outside. Blow loose particles from the outside of the element by holding the nozzle at least 6 in. (150 mm) from the element.



**WARNING:** Wear eye protection and a face mask when carrying out this operation.

Clean the inside of the air cleaner casing using a damp, lint-free cloth on a probe and re-install the outer element ensuring that the rubber sealing ring on the end is secure and undamaged.

**NOTE:** Do not remove or disturb the inner, safety element. If, after cleaning the outer element, it has a sooty or oily appearance or the air cleaner restriction warning light still does not extinguish when the engine is running, then the outer element may require washing or replacing (see operations 41 and 42) or the inner element needs replacing (see operation 63).

**EVERY 50 HOURS** carry out the preceding checks plus the following:

#### OIL BATH AIR CLEANER (where fitted)

See Figure 12

Raise the front cowling and remove the radiator grille to gain access to the air cleaner. Release the four over-center catches, lower the bowl assembly and remove the gauze filter.

Remove the rubber sealing ring, wash the filter thoroughly in a suitable solvent and blow through with compressed air not exceeding 30 lbf.in<sup>2</sup> (2 bar).



**WARNING:** This operation should be carried out in a well ventilated area and eye protection worn. Avoid skin contact with the solvent.

Clean the rubber sealing ring with a dry cloth and, if in good condition, re-install or else fit a new sealing ring.

#### 50 HOUR SERVICE (continued)

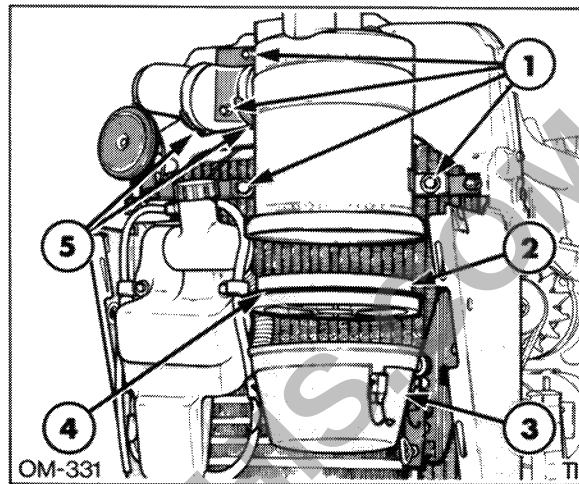


Fig. 12. Oil Bath Air Cleaner (where fitted)

- |                    |                        |
|--------------------|------------------------|
| 1. Securing screws | 4. Rubber sealing ring |
| 2. Gauze filter    | 5. Hose clips          |
| 3. Bowl assembly   |                        |

**IMPORTANT:** The seal ensures an airtight fit between the filter element and the air cleaner casing. Do not fit a seal that is perished, torn or otherwise damaged. Never omit the seal when re-assembling the air cleaner.

Clean the inner cup and bowl and refill to the level mark with fresh engine oil. **Do not fill above the level mark.**

Position the filter in the bowl, ensuring that the rubber seal is correctly seated. Offer the bowl/filter assembly up to the air filter body and secure with the over-center catches.

**NOTE:** This operation is scheduled to be carried out after every 50 hours of work. However, in very dusty conditions washing may be required more often.

#### Oil Specification:

WSE-M2C906-A,  
ESN-M2C121-B, C, D or E  
or ESN-M2C159-C

#### Oil Capacity:

3.7 Imp. pints  
4.4 U.S. pints  
2.1 litres

## 1200 HOURS SERVICE (continued)

**IMPORTANT:** Before loosening or disconnecting any part of the fuel injection system, thoroughly clean the area to be worked on.

Loosen the injector pipe connections at the injection pump end.

Disconnect the injector pipes, Figure 52, and the leak-off line at the injectors, discarding the copper washers either side of the leak-off port banjo fittings. Withdraw the injectors after removing the retaining bolts, Figure 54.

If a spare set of injectors is not immediately available, cover the ends of the pipes, the injector inlet and leak-off ports and the aperture in the cylinder head to prevent the entry of dirt.

Extract the copper sealing washer from each injector bore in the cylinder head together with the cork dust washer on each injector. Discard the copper and cork washers.

Using new sealing and dust washers, install the replacement injectors and tighten the retaining bolts evenly to 17 lbf. ft. (22 Nm).

Reconnect the leak-off line using new washers either side of the banjo fittings and tighten the retaining bolts to 6 lbf. ft. (8 Nm). Reconnect the pump to injector pipes and tighten the connections to 18 lbf. ft. (24 Nm).

After replacing the injectors and pipes, bleed the system, as follows:

With reference to Figure 51, loosen the filter bleed screw and press the primer plunger several times until fuel free of air bubbles is discharged from the bleed screw hole. Tighten the bleed screw.

Press the plunger several more times until resistance is felt, indicating that the system is free of air.

The injection pump and injectors are self-bleeding. Crank the engine with the stop control in and the throttle open until the engine fires.

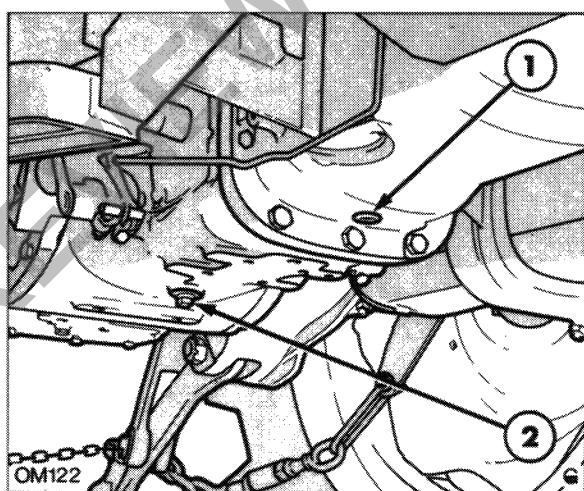


Fig. 55. Transmission/Hydraulics/Rear Axle Oil (four wheel drive)

1. Rear axle drain plug

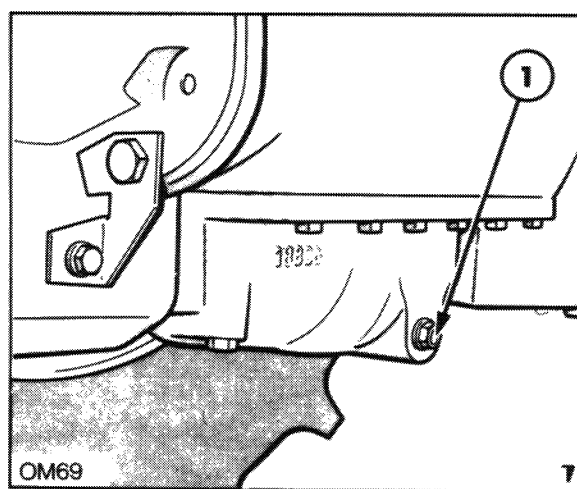


Fig. 56. Transmission/Hydraulics/Rear Axle Oil (two wheel drive)

1. Rear axle drain plug.

**TRACTOR SPECIFICATIONS****C****TRACTOR WEIGHT  
(two wheel drive)****5610S****6610S****7610S**

|                                       |    |      |      |      |
|---------------------------------------|----|------|------|------|
| On front axle                         | lb | 1895 | 1895 | 1975 |
|                                       | kg | 860  | 860  | 896  |
| On rear axle                          | lb | 3680 | 3680 | 3805 |
|                                       | kg | 1669 | 1669 | 1726 |
| Total (with fuel, oil<br>and coolant) | lb | 5575 | 5575 | 5780 |
|                                       | kg | 2529 | 2529 | 2622 |

**(four wheel drive)**

|                                       |    |      |      |      |
|---------------------------------------|----|------|------|------|
| On front axle                         | lb | 2597 | 2597 | 2676 |
|                                       | kg | 1178 | 1178 | 1214 |
| On rear axle                          | lb | 3750 | 3750 | 3875 |
|                                       | kg | 1701 | 1701 | 1758 |
| Total (with fuel, oil<br>and coolant) | lb | 6347 | 6347 | 6552 |
|                                       | kg | 2879 | 2879 | 2972 |

The above weights are based on standard production tractors with full fuel tank, but without driver, ballast or additional equipment.

Add the following weights if your tractor has any of the following features:

|                            |    |                 |
|----------------------------|----|-----------------|
| Roll bar (2-post ROPS)     | lb | ----- 175 ----- |
|                            | kg | ----- 80 -----  |
| Safety frame (4-post ROPS) | lb | ----- 545 ----- |
|                            | kg | ----- 247 ----- |
| Rear tow hook              | lb | ----- 176 ----- |
|                            | kg | ----- 80 -----  |

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