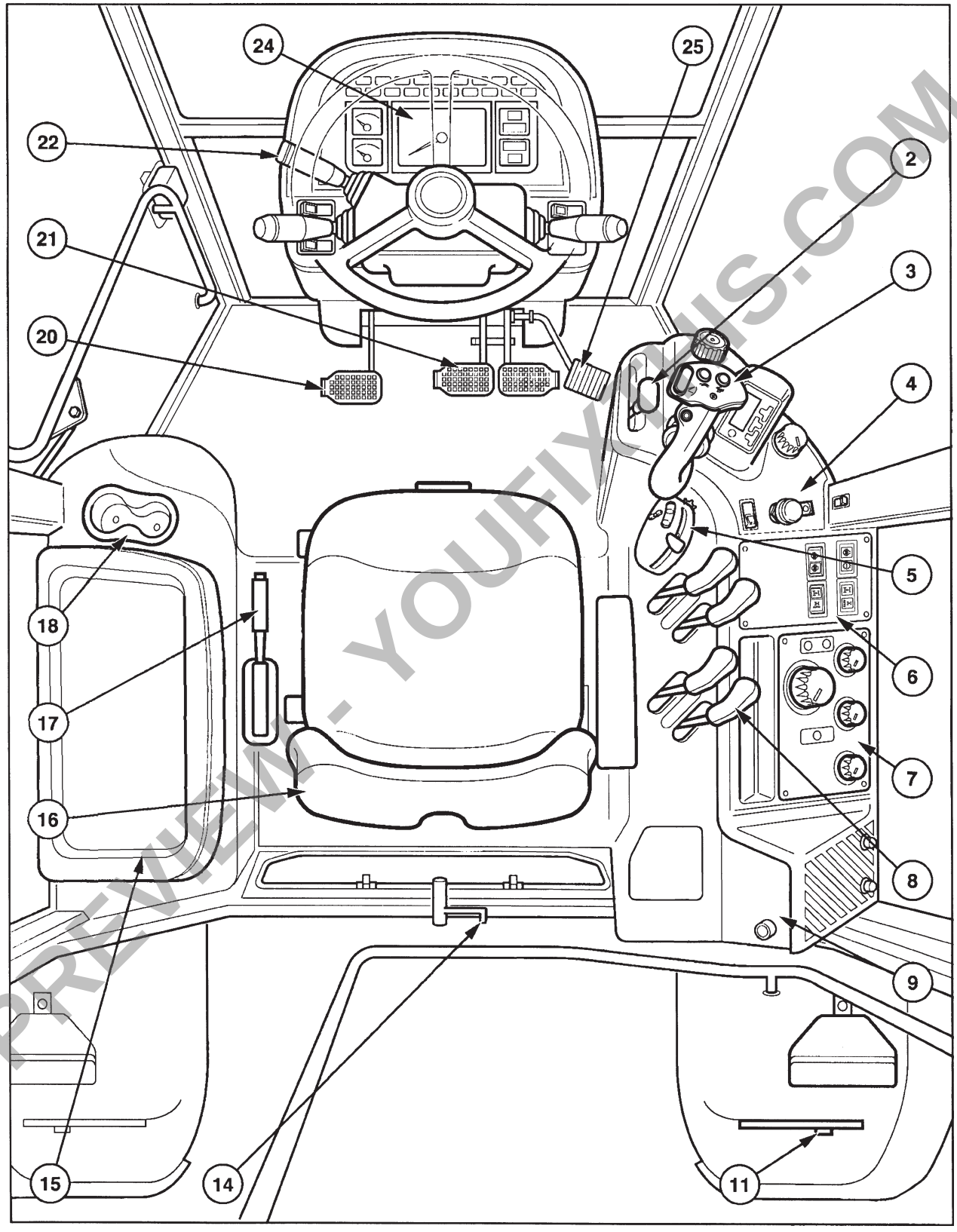
CAB CONTROLS



1 General View of Tractor Controls - Semi PowerShift Transmission

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SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before driving, operating or servicing the tractor. Equipment should be operated only by those who are responsible and instructed to do so.

PRECAUTIONARY STATEMENTS

Throughout this Manual you will see text in *italics,* preceded by the words **NOTE, ATTENTION, IMPORTANT, CAUTION, WARNING** or **DANGER.** Such text has the following significance:

Machine Safety

NOTE: *This text stresses a correct operating technique or procedure.*

ATTENTION: *This text warns the operator of potential machine damage if a certain procedure is not followed.*

IMPORTANT: *This text informs the reader of something that he needs to know to prevent minor machine damage if a certain procedure is not followed.*

Personal Safety

CAUTION: *The word CAUTION is used where a safe behavioural practice, according to operating and maintenance instructions and common safety practices will protect the operator and others from accident involvement.*

WARNING: *The word WARNING denotes a potential or hidden hazard which could possibly cause serious injury. It is used to warn operators and others to exercise due care and attention to avoid a surprise accident with machinery.*

DANGER: *The word DANGER denotes a forbidden practice in connection with a serious hazard.*

Failure to follow the CAUTION, WARNING and DANGER instructions may result in serious bodily injury or even death.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.

2. Only allow properly trained and qualified persons to operate the tractor.

3. To prevent falls, use the handrails and step plates when getting on and off the tractor. Keep steps and platform clear of mud and debris.

4. Replace all missing, illegible or damaged safety decals.

5. Keep safety decals free of dirt or grime.



6. Do not permit anyone but the operator to ride on the tractor unless a passenger seat is fined. There is no safe place for extra passengers otherwise.

7. Keep children away from the tractor and farm machinery at all times.

8. Do not modify or alter or permit anyone else to modify or alter the tractor or any of its components or any tractor function without first consulting your dealer.

9. Install all guards before starting the engine or operating the tractor.

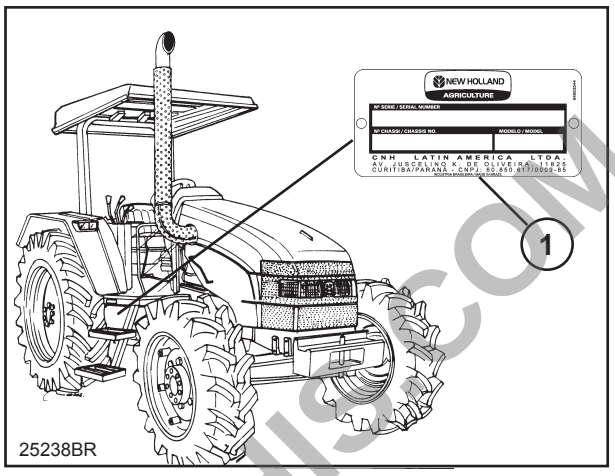
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PRODUCT IDENTIFICATION

The tractor and major components are identified using serial numbers and/or manufacturing codes. Tractor identification data must be supplied to the New Holland dealer when requesting parts or service and will also be needed to aid in identifying the tractor if it is ever stolen.

The following provides the locations of the identification data.

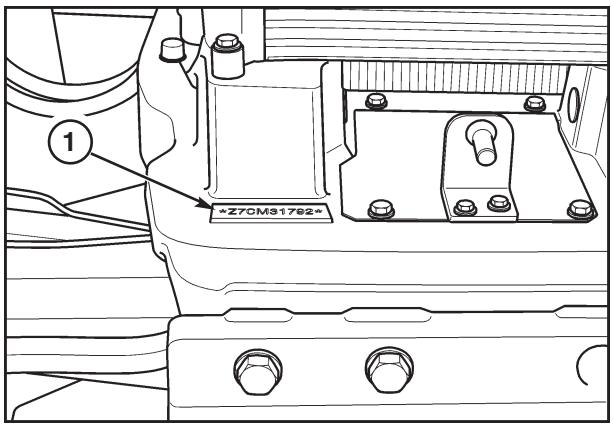


1

Vehicle Identification Plate - Figure 1
The vehicle identification plate, (1) Figure 1 is located on the right-hand side of operator's platform, close to ladder, as shown on fig. 1. Record the information on the sample identification plate provided below.



Tractor Identification - Figure 2
The serial number and model identification information is stamped on the top of the front support (1). These numbers are also repeated on the vehicle identification plate reproduced above.



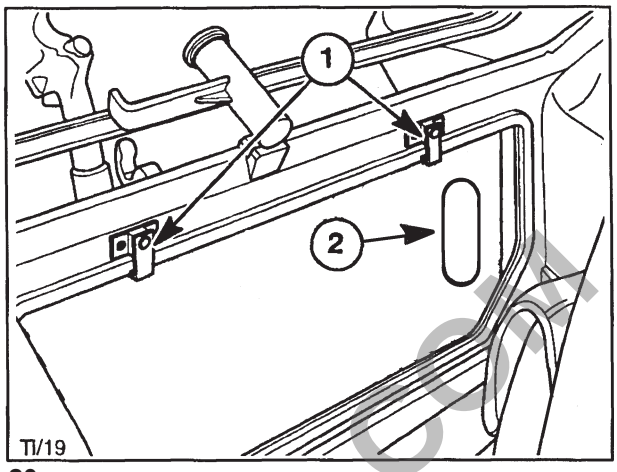
2

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Monitor Cable Routing - Figure 20

The operating cable from the monitor may be conveniently routed to the equipment, by means of a small opening is provided in the lower rear panel.

The panel has a cut-out (2) which, is covered by a rubber plug. To access the cut-out, remove the plug.

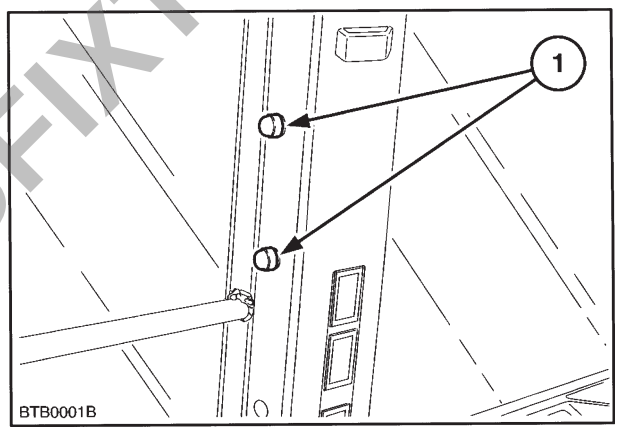


20

Monitor Mounting

Two holes, with 10 mm captive nuts and hexagon head bolts (1)are provided on the 'B' pillar. Remove the plastic covers from the bolts and use the bolts to install the monitor.

It is recommended that a suitable hinged bracket be screwed to the 'A' or 'B' pillar to mount the monitor. This will allow the monitor to be swung to one side so as not to impede access to or from the cab.



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CLEANING THE CAB INTERIOR

When the soft trim material inside the cab becomes dirty, it should be wiped clean. Dip a cloth in a warm water/detergent solution and wring out as much of the water as possible.

The rubber floor covering is designed to allow water to flow out through the open doors. Wash the covering carefully and allow to dry naturally. Avoid getting water under the mat.

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SECTION 3
FIELD OPERATION

BEFORE OPERATING

CAUTION

Before driving or operating the tractor, study the safety precautions in Section 1 of this Manual.

Read this section carefully for a thorough under standing of operational requirements. Even if you operate other tractors, you should thoroughly read this section of the manual and ensure that you are familiar with the location and function of all the features of the tractor.

Do not start the engine or attempt to drive or operate the tractor until you are fully accustomed with all the controls. It is too late to learn once the tractor is moving. If in doubt about any aspect of operation of the tractor, consult your New Holland dealer.

Pay particular attention to the run-in recommendations, to insure that your tractor will provide the long and reliable service for which it has been built. See details further on this section.

This section is split into 10 subjects, as follows. Operating instructions for the various attachments will be found in Section 6.

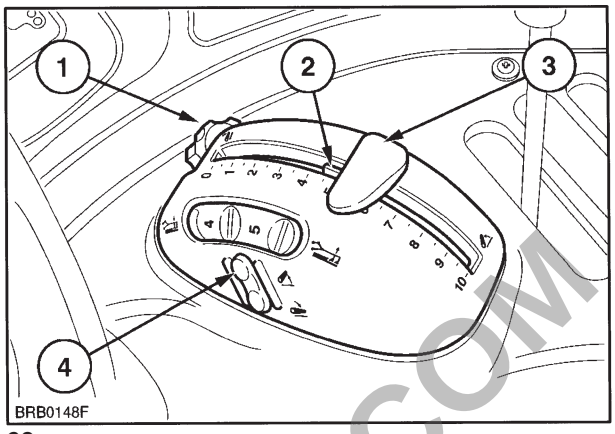
A comprehensive index is provided at the end of this Manual.

Subject	Page
Starting and Stopping the Engine	3-2
Rear Power Take-Off	3-9
Mechanical Lower Link Sensing Hydraulics	3-18
Remote Control Valves (open centre)	3-24
Electronic Draft Control	3-30
Remote Control Valves (CCLS)	3-43
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Rear Wheel Track Adjustment	3-62
Ballasting and Tyres	3-73

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POSITION CONTROL OPERATION



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Figure 63

To operate in Position Control, the draft **loading wheel** (2) should, ideally, be rotated fully forward to position 10.

Use the **Position Control lever** (3) to raise and lower the 3-point linkage. The implement will raise and stop at the height set by the **height limit control knob**.

NOTE*: The rate of lift will be adjusted automatically If a large movement of the position control lever is made then the lower links will respond by moving rapidly. As the links approach the position set by the position control lever, implement movement will be slower*

When the implement is at the required working height, use **thumbwheel** (1) to set the adjustable **stop** (2) against the **position control lever** (3). Every time the position control lever is moved, it may be quickly returned to it's original position, against the stop, to maintain the required implement height.

If it is required to raise the implement at the headland, press the top of the **raise/lower switch** (4), to lift the implement to the position set by the height limit control knob. When re-entering the work area, set the switch to the central position and the implement will lower to the height originally set by the **position control lever** (3).

CAUTION

When transporting equipment on the three-point linkage, raise the implement using the raisel/ower switch (4) and select transport lock (see following text). This will prevent accidental lowering of the 3-point linkage which could result in attached equipment becoming damaged, damaging the road surface or causing personal injury.

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SECTION 5
FAULT FINDING

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INTRODUCTION

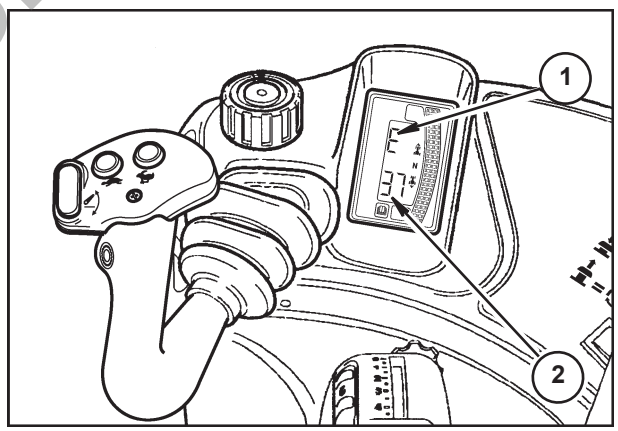
The following information is intended as a guide to assist in identifying and correcting possible tractor malfunctions and fault conditions.

The information provided is as follows:

- ERROR CODES
- SYSTEM TROUBLESHOOTING

ERROR CODES - Figure 1

An error code indicates that there has been a malfunction in one of the electrical systems controlling the instruments, transmission, hydraulics, differential lock, four wheel drive, etc. During operation, the malfunction warning symbol (1) will appear in the liquid crystal display in the instrument panel (analogue/ digital or electronic instrument panels only) or in the gear display adjacent to the powershift control [Range Command (18X6 / 31X12) transmission]. An error code (2) will also be displayed.



1

Error codes will be displayed as a flashing one, twoor three-digit number and may be preceded by or followed by an identification letter. Additionally, some error codes consist of two letters. The letters and/or numbers will identify the specific circuit in which the malfunction has occurred and type of malfunction, such as short circuit, open circuit, etc.

Contact your authorised dealer for assistance in correcting any malfunction indicated by the appearance of an error code.

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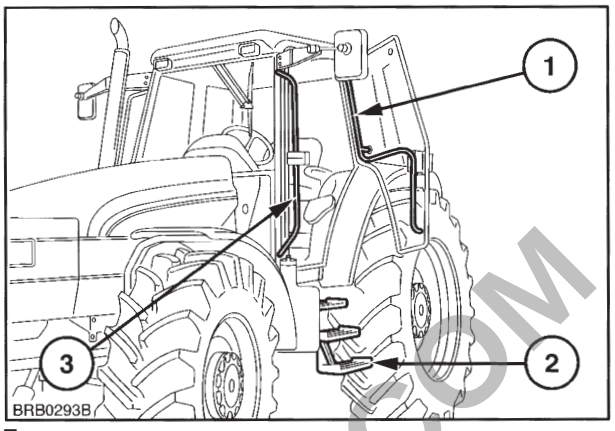
Entering and Exiting the Cab - Figure 7

On less-cab tractors, it is possible to access drive position, from the right or left side.

The cab **version may be** entered only from the left side.

CAUTION

When entering the cab from the right-hand side, use only the grab handles to assist in climbing the steps. If the gear levers are grasped inadvertently a tractor runaway may result.



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To enter the cab/access operator's platform, do it facing upwards. Place one foot on the lowest step plate (2) and, using the grab handles (1) and (3) on the 'A' post and inside the door, climb the steps and enter the cab. Close the door, sit in the seat and fasten the seat belt, if fitted.

To exit the cab, release the seat belt, open the door, grasp the grab handles, back out of the cab and descend the steps using the grab handles.

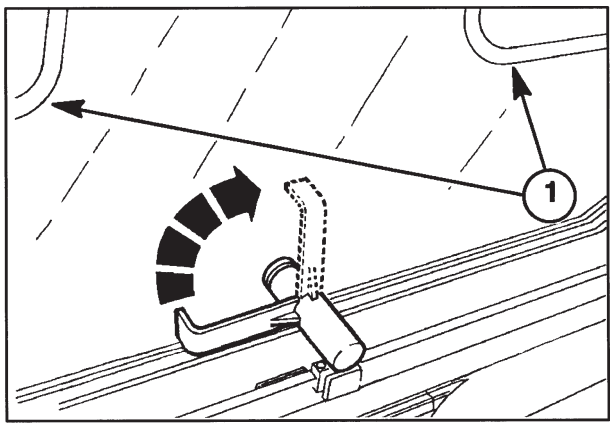
Rear Window - Figure 8

The rear window may be locked in the closed position or retained in the partially open or fully open positions.

To close the window, use the grab handles (1).

To close the window, use the grab handles (1). Push the locking handle down to lock the window.

IMPORTANT: *Retain control of the window when opening it fully. Do not allow it to swing open freely.*



8

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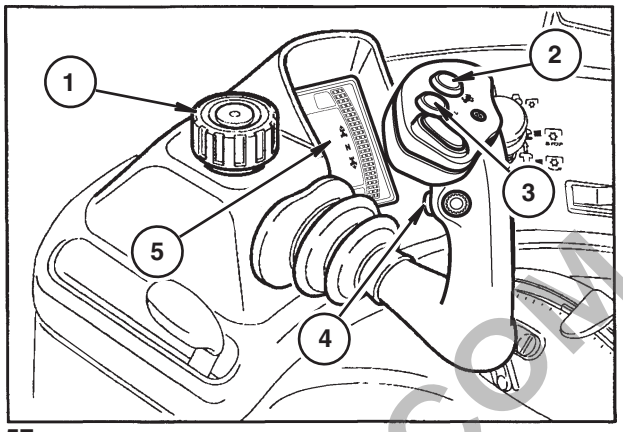
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Powershift Control - Figure 57

The powershift control is used to select any of six gear ratios. Ratios 1 to 6, in each of the 3 ranges, may be sequentially selected using the upshift button (2) or downshift button (3). The need to make a range change is signalled by means of an audible warning when the limits of the powershift gears are reached.

To change to the next higher range, hold in the range button (4) and press the upshift button (2) or momentarily depress the clutch pedal. To change down a range, hold in the range button (4) and press the downshift button (3) or momentarily depress the clutch pedal. A digital display (5) and LED's next to the powershift control indicate the range and gear selected.

The powershift control may be repositioned to suit the operator. Loosen the clamp knob (1), move the control to the most comfortable position then tighten the knob to clamp it in the new position.



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Shuttle Lever - Figure 58

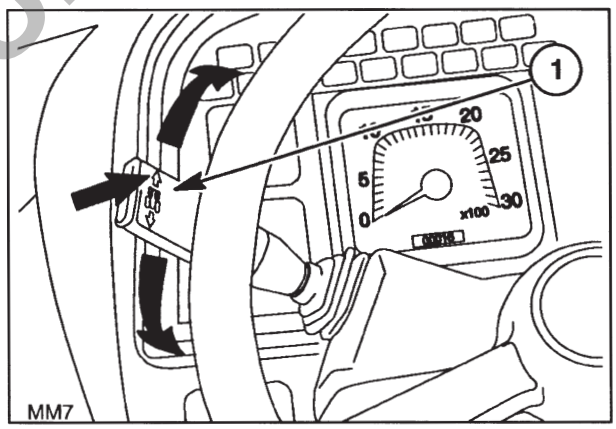
Selection of forward or reverse travel is by means of a shuttle lever (1), located to the left of the steering wheel. The lever is spring-loaded to prevent inadvertent movement. It is not necessary to depress the clutch pedal when actuating the shuttle lever.

NOTE: *If the shuttle lever is moved to the forward or reverse position with the handbrake engaged, an audible alarm will be heard. Additionally forward or reverse drive cannot be engaged unless the operator is in the tractor seat and either. The clutch pedal is depressed and released with the F-N-R lever in the neutral position.*

OR

The handbrake is released with the F- N-R lever in the neutral position.

NOTE: *When operating in temperatures below –18°C (0°F), with cold transmission oil, avoid shuttle operations, as far as practicable, until the oil has warmed up.*



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WARNING

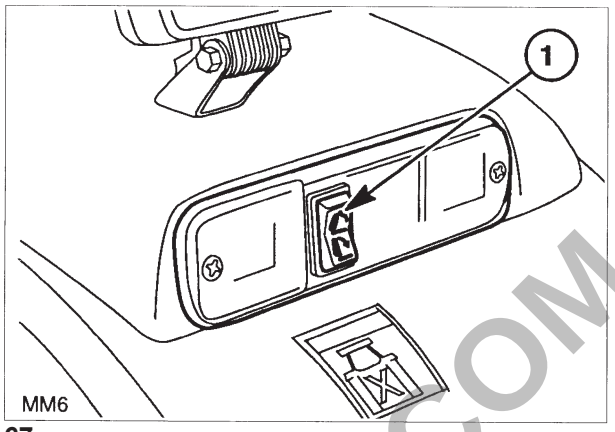
To prevent inadvertent tractor movement, always stop the engine, place the shuttle lever in neutral and firmly apply the parking brake, before leaving the tarctor. The transmission will not pevente the tractor from rolling when the engine is shut off.

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Figure 67

Pressing the upper part of the rocker switch (1), will cause the lift linkage to raise slowly. Pressing the lower part will cause the linkage to lower.

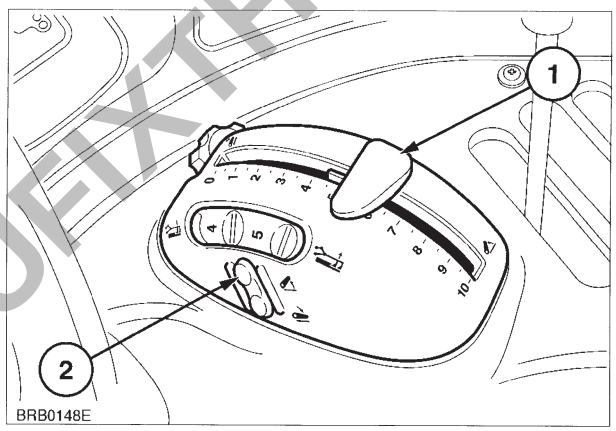


67

Figure 68

To put the position control back into phase with the lower links, with the r**aise/lower switch** (2) in the central position and the engine running, move the position control lever (1) slowly forward or rearward, as required, until the position of the lever matches the linkage height. The 'hitch disabled' warning light will go out or, if your tractor is equipped with an electronic instrument panel, the '"hitch enabled" symbol will appear. The 3-point linkage will now raise or lower normally.

IMPORTANT*: When control of the 3-point linkage is transferred back to the in-cab position control, an attached implement may raise fully, if the height limit control has not been set, and damage the rear of the cab. Operator's should be aware of this and take appropriate action to stop raising before full lift height is reached. Adjust the height limit control knob as described under 'Pre-Operation Settings' on previous pages of this section.*



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EVERY 50 HOURS

Complete the preceding operations plus the following:

OPERATION 8

CLEAN THE RADIATOR, OIL COOLER AND AIR CONDITIONER CONDENSER CORES - Figures 21 and 22

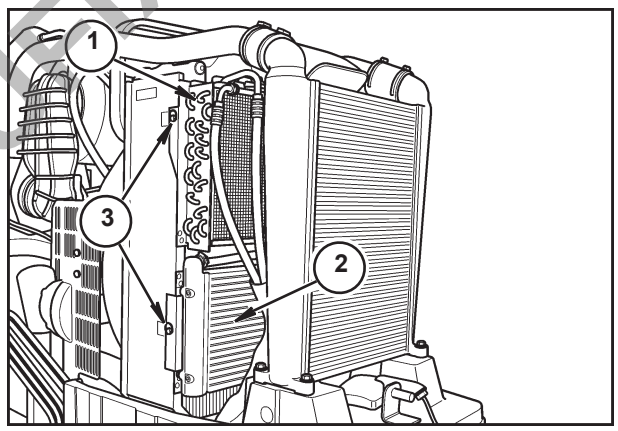
Check the cores for chaff accumulation or blockage. If any is noted, clean as follows:

CAUTION

Wear eye protection and protective clothing during the cleanihg process. Clear the area of bystanders so they, are not struck by flying particles.

1. For cleaning, use compressed air or a pressure washer not exceeding 7 bar (100 psi).

2. The air conditioner condenser (1) Figure 21 and the transmission oil cooler (2) have a slide out facility for ease of service. Turn the two quick release fasteners (3) anti-clockwise to unlock.

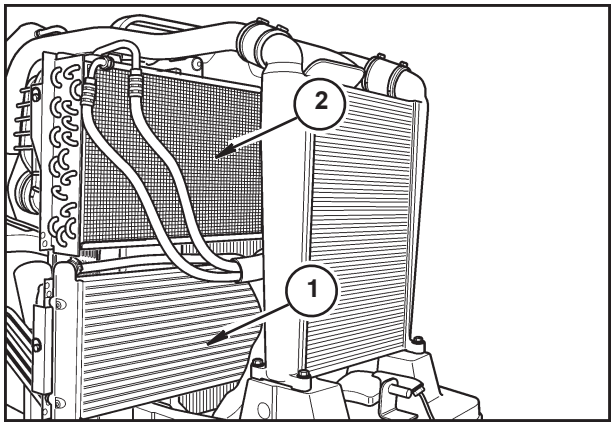


21

3. Slide the transmission oil cooler (1) and the air conditioner condenser (2) (where fitted) out, as shown, to gain access to the radiator.

4. Direct the air or water through each core from the back to the front. Clean the radiator first, then the air conditioner condenser and, finally, the transmission oil cooler. Carefully straighten any bent fins.

NOTE*: If the cores are blocked with any oily substances, apply a detergent solution and remove it with a pressure washer.*



22

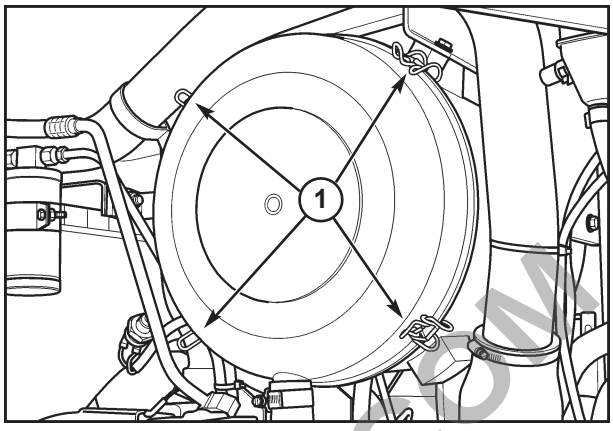
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OPERATION 34

CHANGE ENGINE AIR CLEANER INNER ELEMENT – Figures 74 to 76

The air cleaner is accessible from the left-hand side of the tractor, Figure 74.



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Figure 75 shows the outer element being removed.

NOTE: Examine the inside of the outer element. If dust is present, the outer element is defective and must be replaced.

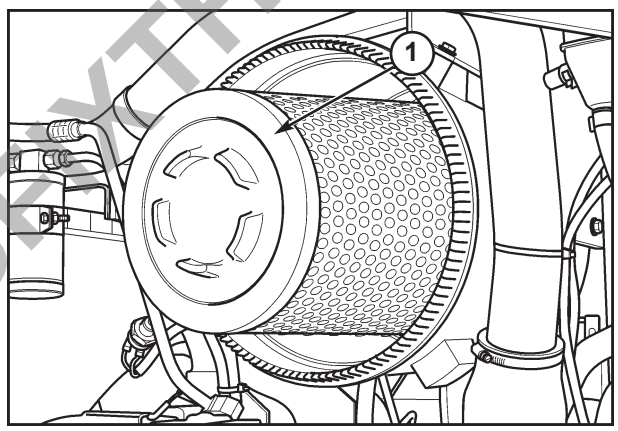
1. Remove the outer element (1) Figure 75 from the air cleaner assembly.

2. Remove the inner element (1) Figure 76 from the air cleaner assembly.

3. Dispose of the inner element properly (and the outer element, if replaced at this service).

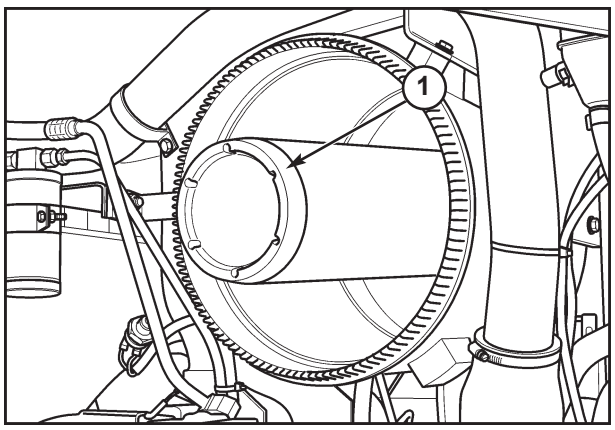
4. Clean the inside of the air cleaner housing using a damp, lint-free cloth.

5. Install a new inner element and a cleaned or new outer element.



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IMPORTANT: *Failure to install the inner filter element properly could result in engine damage. Therefore it is recommended that the element be installed by an authorised dealer.*



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