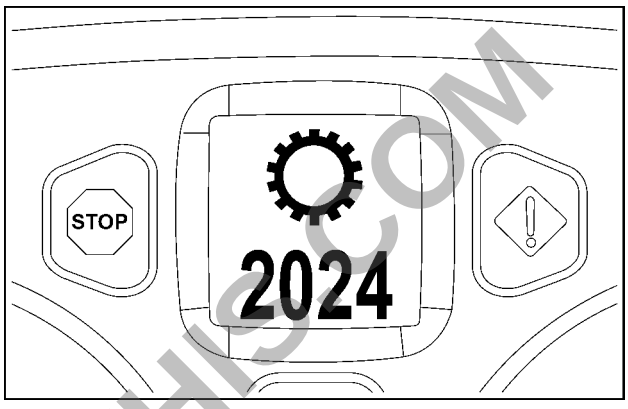
8 - TROUBLESHOOTING

FAULT CODE RESOLUTION

Introduction

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



SVIL17TR00611AA 1

Fault codes

Your tractor makes extensive use of electronics to control and monitor major components within the drive line, electrical and hydraulic systems. In the unlikely event of a fault occurring in one of these areas, the malfunction will be identified with a symbol and a four or five digit fault code in the Dot Matrix Display on the instrument panel. The first digit(s) of each number provide the general location of the fault and the subsequent numbers confirm the exact nature of the fault.

The code indicates the faulty circuit or sensor and the type of fault, e.g., open circuit, short circuit, etc. Each fault code will be supported by the relevant symbol displayed above the number.

If a fault code will be displayed in the instrument panel and you are unable to rectify the fault yourself, contact your authorized dealer and report the fault code displayed.

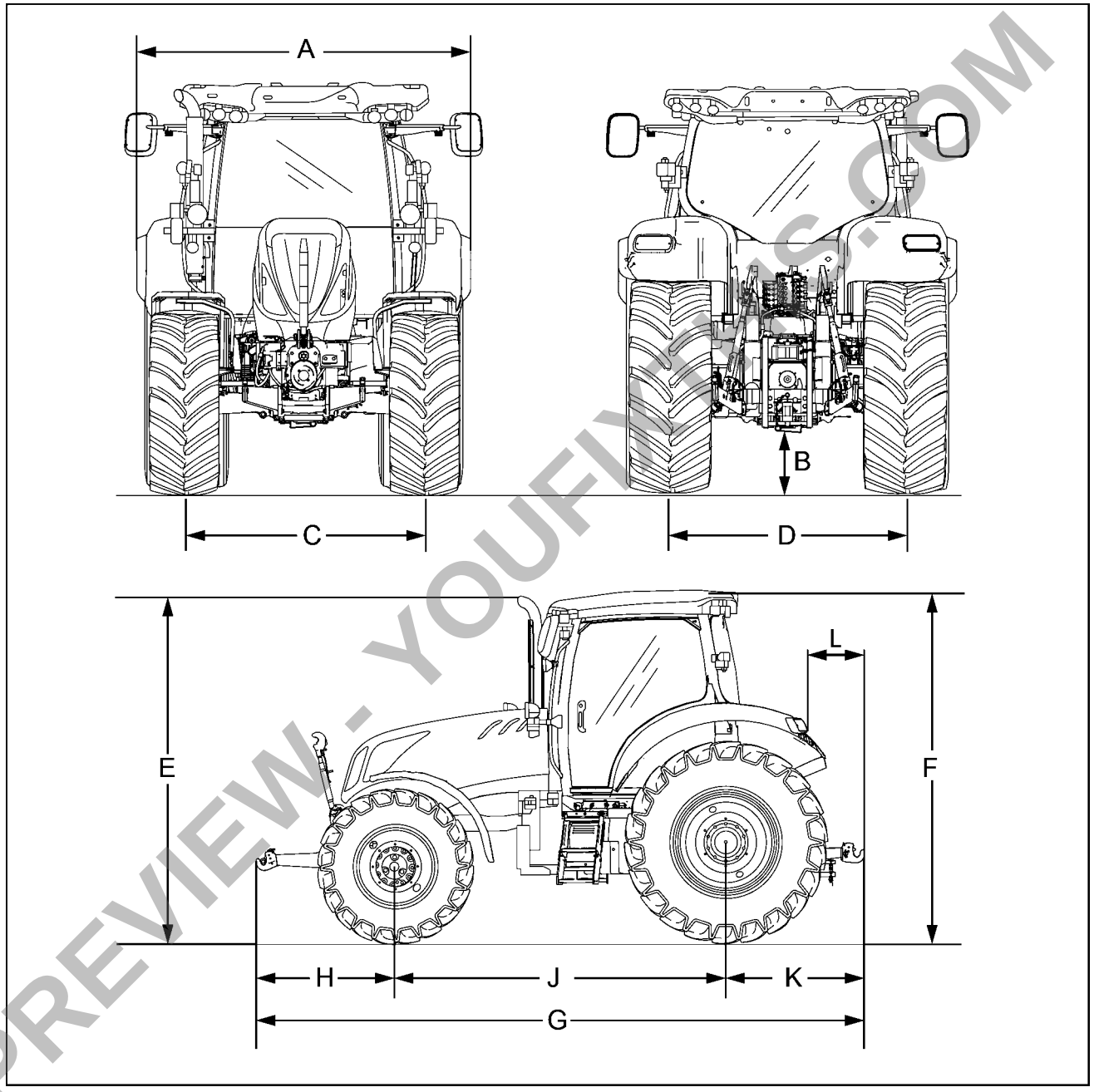
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9 - SPECIFICATIONS

General dimensions

General dimensions



SVIL17TR01239GA 1

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NOTE: *The following dimensions are based on standard tractors fitted with tyre size as shown. If your tractor has tyres of a different size then the dimensions will vary due to the difference in the rolling radius and section width of the tyres fitted.*

GENERAL DIMENSIONS

Model		T7.230 AC	T7.245 AC	T7.260 AC	T7.270 AC
Axles		Standard, Suspension, 4WD axles. SuperSteer			
The following dimensions are based on tractors with tyre sizes shown	Front	480/70R30			
	Rear	580/70R42			

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4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Refueling the tractor

⚠ WARNING

Fire hazard!
When handling diesel fuel, observe the following precautions:
1. Do not smoke.
2. Never fill the tank when the engine is running.
3. Wipe up spilled fuel immediately.
Failure to comply could result in death or serious injury.

W0099A

⚠ WARNING

Fire hazard!
Do not add gasoline, alcohol, or blended fuels to diesel fuel, except as recommended in this manual.
Fuel combinations may increase fire and explosion hazards.
Failure to comply could result in death or serious injury.

W0401A

NOTE: *Additionally, dieselhol is not approved due to possible inadequate lubrication of the fuel injection system.*

Maintenance requirements

The operator must maintain appropriate DEF/AdBlue® levels at all times. No additional maintenance is required.

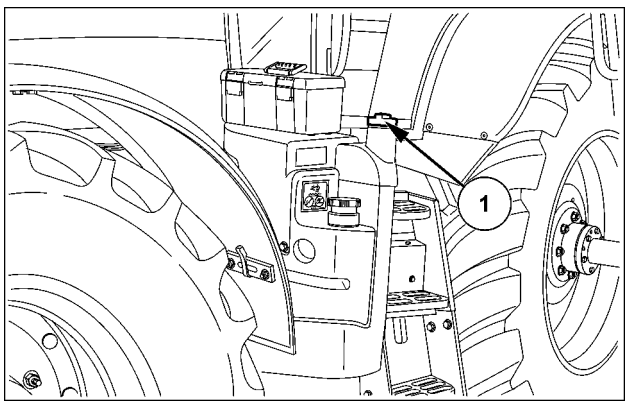
NOTE: *See your NEW HOLLAND dealer for replacement components and cleaning agents.*

See pages **7-10** and **7-11** for lubrication oil quality, maximum lubrication oil consumption ratings, and page **7-2** for fuel requirements. Your SCR system is compatible with up to **7%** bio-diesel fuel.

Diesel

When handling diesel fuel, observe the following:

- Fill the tank at the end of each day to reduce overnight condensation.
- Clean the area around the fuel cap **(1)** to prevent dirt from entering tank and contaminating the fuel.
- Never take the cap off or refuel with the engine running. Remove the cap and place in a clean area during refuelling. The cap is attached to the fuel tank by a chain to prevent loss.
- Keep control of the fuel nozzle while filling the fuel tank.
- Don't fill the tank to capacity. Allow room for expansion. If the original fuel tank cap is lost, replace it with a genuine original equipment cap and tighten securely.
- After filling the tank, replace and tighten the fuel cap.
- Wipe up spilled fuel immediately.



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3 - CONTROLS AND INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Introduction

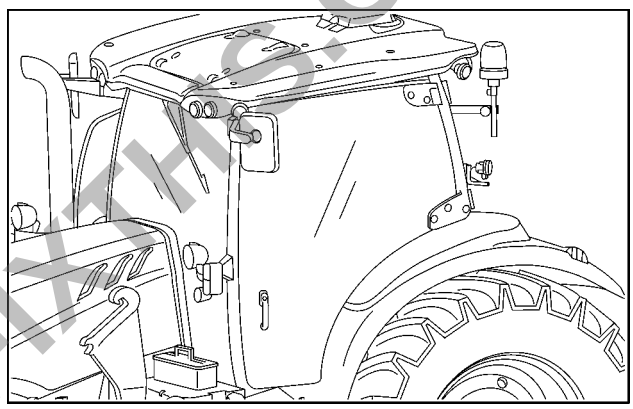
⚠ WARNING

Fall hazard!
Jumping on or off the machine could cause an injury. Always face the machine, use the handrails and steps, and get on or off slowly. Maintain a three-point contact to avoid falling: both hands on the handrails and one foot on the step, or one hand on the handrail and both feet on the steps. Failure to comply could result in death or serious injury.

W0141A

The cab has been designed for operator protection, comfort and convenience. Inside, the frame, roof, and floor are insulated to reduce noise to a minimum.

A wide opening door on the left-hand side permits entry to the cab aided by convenient grab handles and footsteps with anti-slip treads. The door and rear window are fitted with gas struts to hold them in the fully open position. Additionally, the rear window may be retained in the partially open position for increased ventilation during operation.



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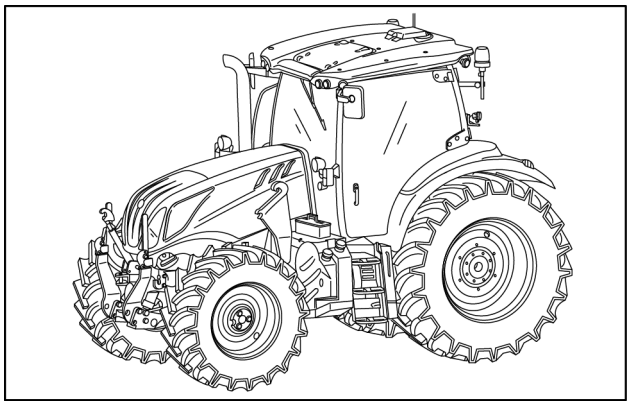
The cab features include a fresh air heater/defroster with recirculation, air conditioning, sun visor, tinted glass, interior light, auxiliary power socket, storage facilities, interior/exterior rear view mirrors and a choice of comfortable seats.

Options include automatic climate control, high visibility roof panel, radio, rear windscreen wash/wipe and electrically operated external rear view mirrors.

Entering and exiting the cab

Wherever possible, the cab should be entered from the left side. The right-hand door should only be used in emergencies to exit the cab.

To enter the cab, face the door, then open it. Place one foot on the lowest step plate and, using the grab handles on the 'A' post and inside the door, climb the steps and enter the cab.



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7 - MAINTENANCE

GENERAL INFORMATION

Introduction

This section gives full details of the service procedures necessary to maintain your tractor at peak efficiency.

Safety precautions

⚠ WARNING

Moving parts!
Disengage the Power Take-Off (PTO), turn off the engine, and remove the key. Wait for all movement to stop before leaving the operator's position. Never adjust, lubricate, clean, or unplug machine with the engine running. Failure to comply could result in death or serious injury.

W0112A

Read and observe all safety precautions listed in 'Servicing the tractor' and 'Prevention of fire or explosion' in the General information and Safety section of this Manual.

NOTE: *Dispose of used filters and fluids properly.*

Preventing system contamination

To prevent contamination when changing oils, filters, etc., always clean the area around filler caps, level and drain plugs, dipsticks and filters prior to removal. Before connecting remote cylinders, ensure that the oil contained within them is clean, has not degenerated due to long storage and is of the correct grade.

To prevent dirt entry during greasing, wipe dirt from the grease fittings before greasing. Wipe excess grease from the fitting after greasing.

Warning Symbols

A number of maintenance items are represented by symbols that may appear in the display screens. For more information on these symbols, see **3-114**.

During the first 50 hours operation

In addition to the regular maintenance operations listed, check the following items every 10 hours or daily during the first 50 hours of operation:

- Check the oil level of the transmission, rear axle and hydraulics
- Check the wheel nuts for tightness
- Check the oil level of the front axle hub

NOTICE: *Park the tractor on level ground and, where applicable, extend all cylinders before checking oil levels. With some wheel equipment fitted, it may be necessary to raise the front or rear of the tractor to ensure that the machine is level before checking the oil.*

Flexibility of maintenance intervals

The intervals listed in the maintenance chart are guidelines to be used when operating in normal working conditions.

Adjust the intervals for environmental and working conditions. Intervals should be shortened under adverse (wet, muddy, sandy, extremely dusty) working conditions.

Maintenance chart

NOTE: *For each service interval on the maintenance chart, you are also required to perform all prior service intervals that apply. For example, the 1200–hour or annual service will need the 50–hour, 100–hour, 300–hour and 600–hour individual maintenance actions, in addition to the 1200 hour actions.*

The maintenance chart (**7-13**) lists the intervals when routine checks, lubrication, service and/or adjustments should be performed. Use the chart as a quick reference guide when servicing the tractor. The operations follow the chart.

Fuel injector maintenance

The fuel injectors on your tractor are electronically controlled and therefore do not require periodic servicing or adjustment.

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5 - TRANSPORT OPERATIONS

PREPARING FOR ROAD TRANSPORT

Carrying the tractor on a transporter

Transport the tractor with all four wheels on a flat bed trailer or truck. Securely chain the tractor to the transporter.

NOTICE: *Do not chain around the four wheel drive shaft, steering cylinders, front wheel drive axle or other components that could be damaged by contacting the chain or by heavy loading.*

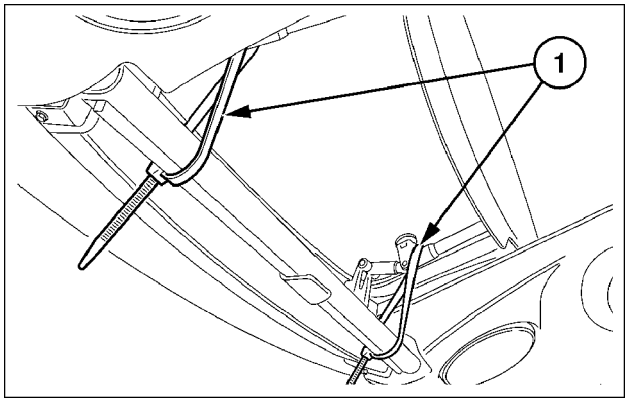
Use the drawbar or drawbar hanger for a rear tie down point.

NOTICE: *Cover the silencer outlet so that the wind does not spin the turbocharger and damage the bearings. Turbocharger turbine freewheeling (turning without engine running) must be avoided since lubrication will not be provided to the turbocharger bearings.*

Secure the high visibility roof panel

Where road speeds in excess of **50 km/h** (**31 mph**) are likely to occur when transporting the tractor, it is advisable to secure the high visibility roof panel with ties to prevent it from opening.

Secure both handles to the sun- visor support using a flexible strap such as a cable tie **(1)** as shown in the illustration. Do not use wire or metal straps as these may damage the paintwork.



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2 - SAFETY INFORMATION

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 machine. Equipment should be operated only by those who are responsible and instructed to do so.

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual , you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation which, if not avoided, could result in machine or property damage.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

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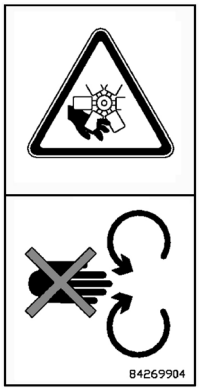
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1. Location: Left and right-hand side of radiator

WARNING
Moving parts!
Keep hands and clothing away from rotating fan and drive belt.
Failure to comply could result in death or serious injury.

Part number 84269904

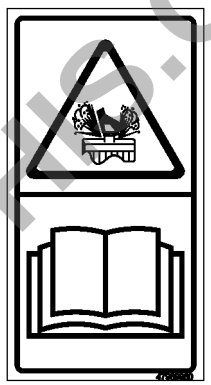


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2. Location: Left and right-hand side of radiator

WARNING
Burn hazard!
Never remove the cap while the engine is running or the coolant is hot. Stop the engine and let the system cool. Using a thick cloth, loosen the cap slowly and allow the pressure to escape. Read Operator's Manual.
Failure to comply could result in death or serious injury.

Part number: 47969960



SVIL17TR00074AA 3

3. Location: Right-hand side of radiator

WARNING
Using a starting aid on a machine equipped with a cold weather starting aid can cause an explosion.
Follow the Cold Weather Starting instructions contained in this manual. DO NOT use ether or other flammable starting aids.
Failure to comply could result in death or serious injury.

Part number 47967447

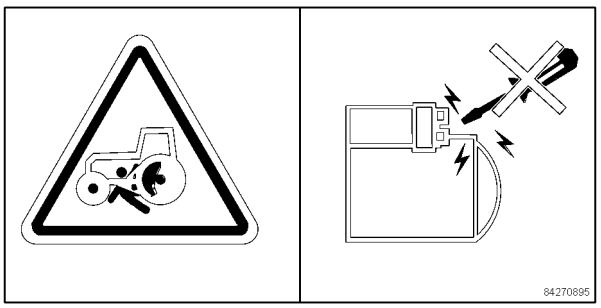


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4. Location: Starter motor

WARNING
Unexpected machine movement!
Use caution when jump starting the machine. Read Operator's manual.
Failure to comply could result in death or serious injury.

Part number 84270895



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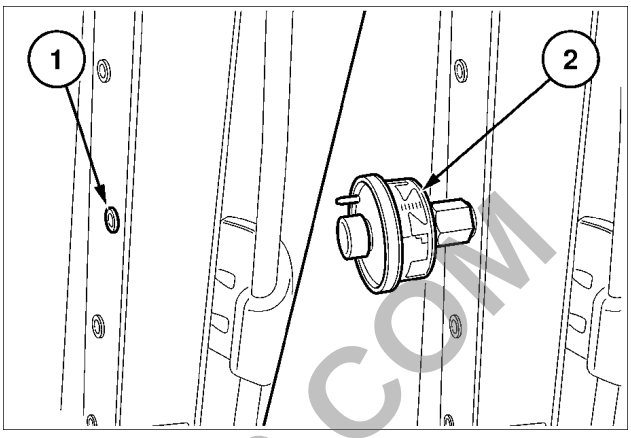
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Cab air pressurisation control (where fitted)

To help reduce the amount of dust and chemical vapours entering the cab, the blower can be used to raise the air pressure inside the cab above that of the external air pressure. Ensure all cab apertures are fully closed. To monitor the internal pressure, a gauge can be mounted on the right- hand cab 'A' pillar.

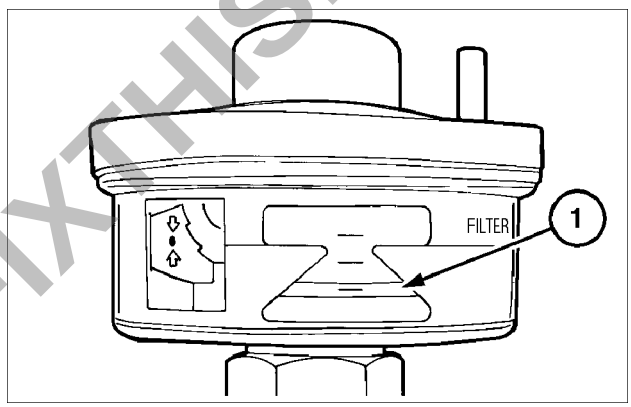
The pressurisation gauge should be used in conjunction with external carbon air filters. A kit is available from your authorised dealer which includes all the necessary parts and fitting instructions.

A threaded mounting point **(1)** is pre- installed on the 'A' pillar, remove the blanking plug and screw in the gauge.



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Observe the reading on the pressure gauge. If the lower edge **(1)** of the yellow indicator centres in the green area you have an adequate differential between the internal and external air pressure. Adjust the blower speed to maintain that reading. If the yellow indicator rises into the red area, increase blower speed to raise the internal cab pressure.



BSE3623A 2

⚠ WARNING

Inhalation hazard!
If the lower edge of the yellow indicator enters the red area of the gauge, perform the checks below.
Failure to comply could result in death or serious injury.

W0381A

With the blower in the off position the yellow indicator should move into the red area. If the indicator does not register correctly, the gauge should be replaced.

If the blower is unable to maintain the correct pressure inside the cab then the following checks should be made to determine the cause.

1. Check blower is on maximum speed.

NOTE: *If Automatic Temperature Control is activated it may be necessary to switch to manual control to increase blower speed.*

2. Ensure all doors, windows and roof panel are fully closed.
3. Check external air filters for blockage or restriction.
4. Examine all cab aperture seals for damage.
5. Check sealing around linkages and levers where they pass through the cab panels.

If, after all the checks have been made the cab interior pressure cannot be maintained, consult your authorised dealer.

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Four wheel braking

NOTE: *Owners should be aware of local regulations concerning the braking system.*

Four wheel drive engages when both brake pedals are pressed.

Drive to the front axle can be programmed to automatically engage at speeds between **0 km/h** (**0 mph**) and **6.4 km/h** (**4.0 mph**) to provide four wheel braking when the brakes are applied. Adjustment from the factory is automatically engage of four wheel braking at speeds greater **6.4 km/h** (**4.0 mph**). For special operation the engagement of the four wheel braking can be programmed down to **0 km/h** (**0 mph**). Consult your authorised dealer. Owners should be aware of the effectiveness of four wheel braking which greatly enhances braking performance. Appropriate care should be exercised during heavy braking.

NOTICE: *This auto four wheel braking function can not be disabled completely.*

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Ground speed calibration numbers

The rolling circumference for any given tire size will vary depending on tire manufacturer. The figures shown in the table are an average based on rolling circumference data supplied by several manufacturers. To obtain an accurate figure for your rear tyres, consult your authorized dealer or tire supplier.

If the size of tire on your tractor is not listed, then the road speed calibration may be carried out using one of the following procedures.

Carry out the auto calibration as previously described or measure the rear tire rolling circumference.

1. To measure the rolling circumference of the rear tire, park the tractor on a level surface and make a vertical chalk mark on the sidewall where the tire tread contacts the ground. Make a second chalk mark on the ground aligning with the mark on the tire.
2. Slowly drive the tractor forward until the rear wheel has made one revolution and the chalk mark on the sidewall is again in contact with the ground. Mark the ground again and measure the distance between the two chalk marks.

NOTE: *If your tractor is equipped with the optional slip control feature, then the ground speed displayed is a true speed as sensed by a radar unit, calibration is therefore not required.*

Rear tire rolling circumferences

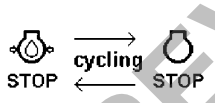
Tire size	Tire rolling circumference
20.8R - 38	**550.1 cm** (**216.6 in**)
580/70R - 38	**543.6 cm** (**214.0 in**)
650/65R - 38	**545.3 cm** (**214.7 in**)
650/75R - 38	**581.1 cm** (**228.8 in**)
710/70R - 38	**576.2 cm** (**226.9 in**)
710/60R - 42	**567.5 cm** (**223.4 in**)
18.4R - 42	**555.7 cm** (**218.8 in**)
20.8R - 42	**581.5 cm** (**228.9 in**)
580/70R - 42	**569.0 cm** (**224.0 in**)
650/65R - 42	**577.6 cm** (**227.4 in**)
620/70R - 42	**580.9 cm** (**228.7 in**)
14.9R - 46	**554.2 cm** (**218.2 in**)
420/80R - 46	**555.5 cm** (**218.7 in**)
480/80R - 46	**587.2 cm** (**231.2 in**)
520/85R - 46	**608.8 cm** (**239.7 in**)
18.4R - 46	**587.0 cm** (**231.1 in**)
320/90R - 50	**559.0 cm** (**220.1 in**)
320/90R - 54	**529.0 cm** (**208.3 in**)

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SYMBOL	Panel light	Warning light	Alarm	Cause	Action
	-	 flashing **4 s**/ continuous	pulsating	Lubrication pressure too low.	These symbols advises of a fault that may be critical to the operation of the machine. Stop the machine as soon as possible, investigate the cause and rectify the fault. If the fault cannot be easily rectified, consult your authorized dealer.
	-	 flashing **4 s**/ continuous	pulsating	Lubrication pressure very low.	
	-	 flashing	pulsating	Transmission oil temperature too high. (Engine Shutdown activated)	

Engine

Display	Panel light	Warning light	Alarm	Cause	Action
	-	 flashing	pulsating	Engine coolant temperature very high.	These symbols advises of a fault that may be critical to the operation of the machine. Stop the machine as soon as possible, investigate the cause and rectify the fault. If the fault cannot be easily rectified, consult your authorized dealer.
	-	 flashing	pulsating	Engine coolant temperature too high. (Engine Shutdown activated)	
	 flashing **4 s**/ continuous	 flashing	pulsating	Engine oil pressure very low.	These symbols advises of a fault that may be critical to the operation of the machine. Stop the machine as soon as possible, investigate the cause and rectify the fault. If the fault cannot be easily rectified, consult your authorized dealer.
		 flashing	pulsating	Engine oil pressure too low. (Engine Shutdown activated).	
	-	 flashing	pulsating	Engine Error Stat (Engine Shutdown activated) or Engine Hp Protection (Engine Shutdown activated).	
	-	 flashing **4 s**/ continuous	-	Engine intake air filter Blocked.	See page **7-15**.

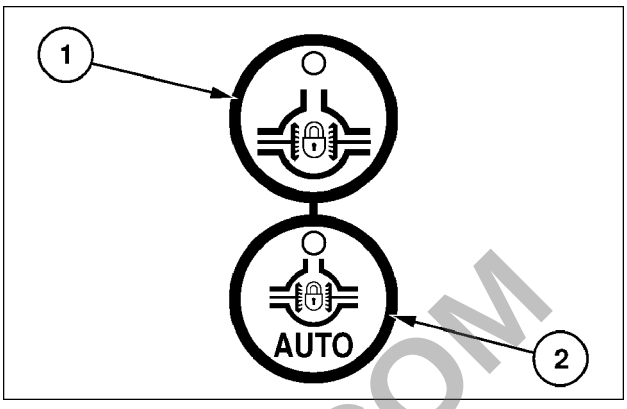
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Operating in Automatic Mode

To engage both front and rear differential locks in automatic mode, depress the AUTO switch **(2)**. The warning light in the switch will illuminate. The indicator light **(2)** Figure **2** on the instrument cluster will also illuminate but will only remain lit while the differential locks are engaged.

NOTE: *If the differential lock is active when the ignition key is turned off, it will remain active when the ignition key is switched on again.*



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In automatic mode, disengagement of the locks will occur as follows:

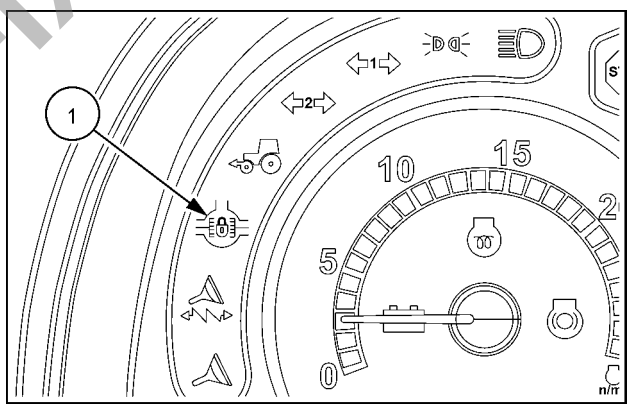
Fast raise switch activated (to raise the rear three-point hitch)	Temporary disengagement, will reengage when three-point hitch is lowered
Either brake pedal is applied	Temporary disengagement
Both brake pedals are applied simultaneously	Differential lock remains engaged
Tractor speed exceeds **15 km/h** (**9 mph**)	Differential locks will permanently disengage
Front steering angle exceeds preset limits *	Temporary disengagement, will reengage when steering angle is reduced
Momentarily press the AUTO switch	Differential locks will permanently disengage

* Wheel speed **0 – 10 km/h** (**0 – 6.2 mph**) and steering angle exceeding **15°** right, **13.5°** left. Differential lock will reengage when the steering angle is reduced.

* Wheel speed is between **10 km/h** (**6.2 mph**) and **15 km/h** (**9.3 mph**) and steering angle exceeding **5°** right, **4.5°** left. Differential lock will reengage when the steering angle is reduced.

Where the differential locks are temporarily disengaged, the warning light will flash until the locks reengage.

NOTE: *The above steering angles are set during manufacture, if an alternative angle setting is required, consult your authorized dealer.*



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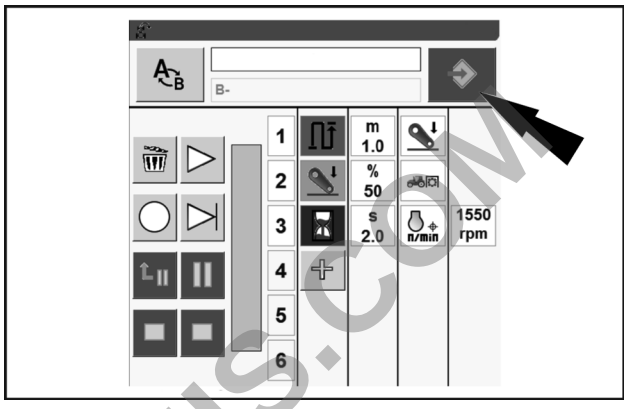
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Saving a sequence

Saving a recorded Headland Turn Sequence (HTS) II

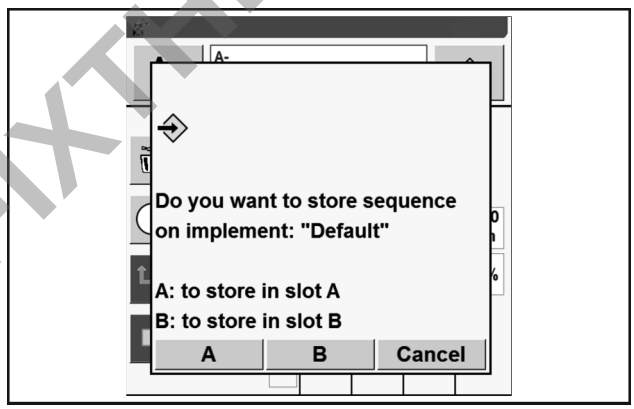
Two sequences can be saved in the memory against an implement.

To save a sequence touch save.



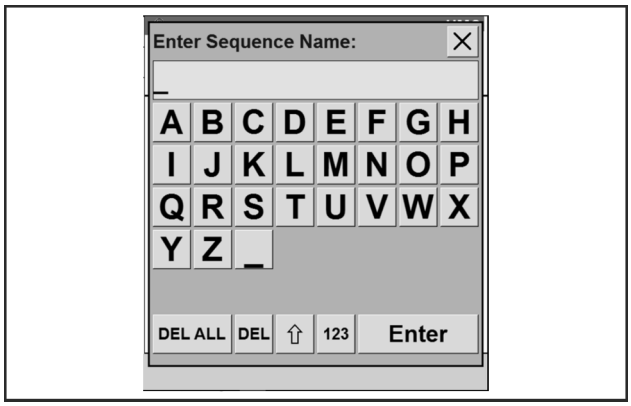
SVIL17TR02920AA 1

Each sequence can be saved by implement and in either A or B by selecting the desired slot.



SVIL17TR02918AA 2

The ‘Enter sequence name' pop up window is displayed.



SVIL17TR02914AA 3

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Pneumatic Trailer Brake Stabilization System

The Intelligent Trailer Brake system controls the pneumatic trailer brake (if fitted) in case of transmission deceleration in order to stabilise the attached trailer and to improve driveability.

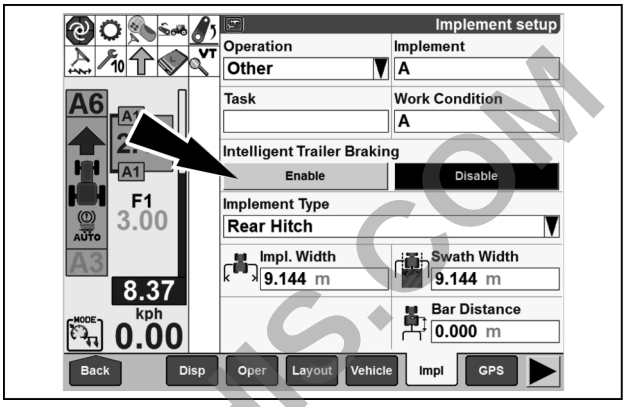
Enabling the Intelligent Trailer Braking functionality

To enable the Intelligent Trailer Brake functionality:

☞ Toolbox

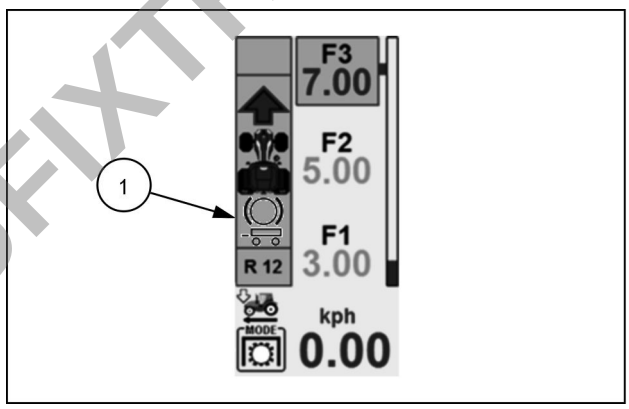
☞ Implement Setup

Press ‘Enable’ on the display.



SVIL18TR01026AA 1

A warning light **(1)** on the color display will illuminate to indicate that the Intelligent Trailer Braking functionality is enabled. A gray color indicates the ‘armed’ status and green color the ‘active’ status.



SVIL18TR01013AA 2

Intelligent Trailer Braking functionality

The system brakes the trailer if all of the following conditions are fulfilled at the same time:

- Direction of travel is ‘forward’
- Current vehicle speed > requested vehicle speed (set via multifunction handle or foot throttle)
- Clutch pedal fully released

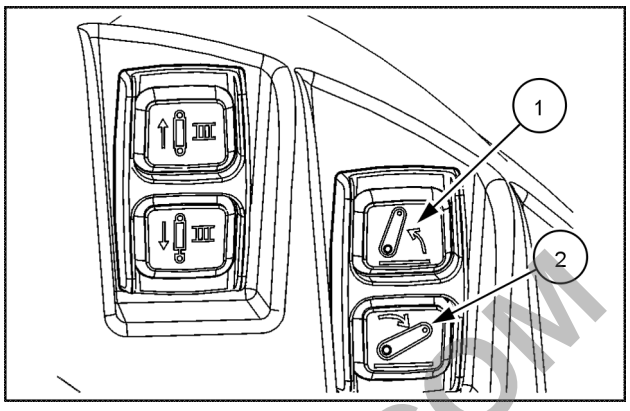
When the trailer is braked because of the Intelligent Trailer Braking functionality, the stop lights of the tractor and the trailer will illuminate to indicate a current braking process.

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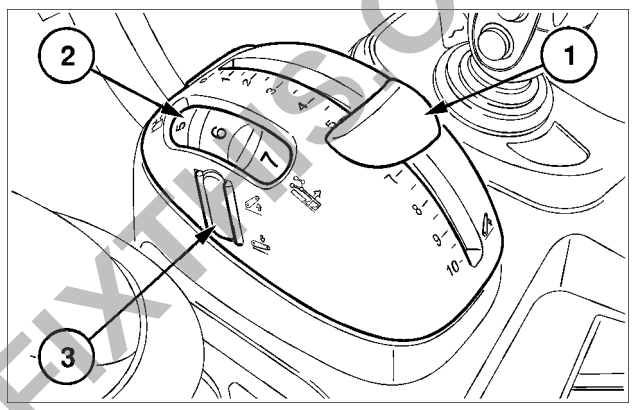
Pressing the upper switch **(1)**, will cause the hitch to raise slowly. Pressing the lower switch **(2)** will cause the hitch to lower. When the lower links align with the implement, release the switch and attach the implement to the three-point hitch in the normal way.

NOTE: *Using the external lift control will cause the hitch to become out of phase with the position control lever in the cab.*



SVIL17TR01345AA 3

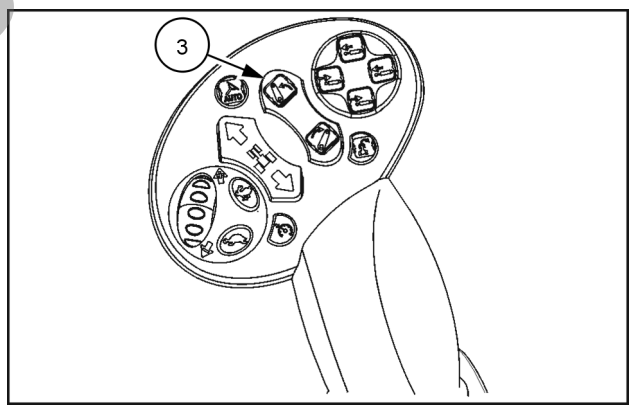
To re-phase the position control lever with the lower links, start the engine and move the lever **(1)** slowly forward or rearward, as required, until the position of the lever matches the height of the hitch. This will be confirmed by the 'hitch disabled' warning light going out.



BRL6112C 4

Alternatively, use the fast raise switch **(3)** figures **4** and **5** to raise or lower the hitch until the hitch disabled light goes out. During the re-phase sequence, the lower links will raise slowly but once the lever and hitch are in phase, the lower links will operate normally.

NOTICE: *When control of the three-point hitch is transferred back to the lift control, an attached implement may raise fully and damage the rear of the cab. Operators 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 position control operation.*



SVIL17TR03615AA 5

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To select motor mode, move the appropriate lever to the float position and depress/ hold the corresponding timer button **(1)** for **1 s**. The light **(2)** and display will confirm motor mode is active on the selected valve.

With motor mode selected, lever functions are as follows.
Lower Position: Motor is powered up.
Float Position: Motor slows and stops.

NOTE: *If the control lever is in advertantly moved to the neutral or raise positions, the EHR control system will treat these positions as float and the motor will slow and stop.*

If an error occurs in the EHR operating system with motor mode engaged, the valve will automatically default to float and the motor will slow and stop.

NOTE: *Motor speed can be controlled by adjusting the EHR flow setting.*

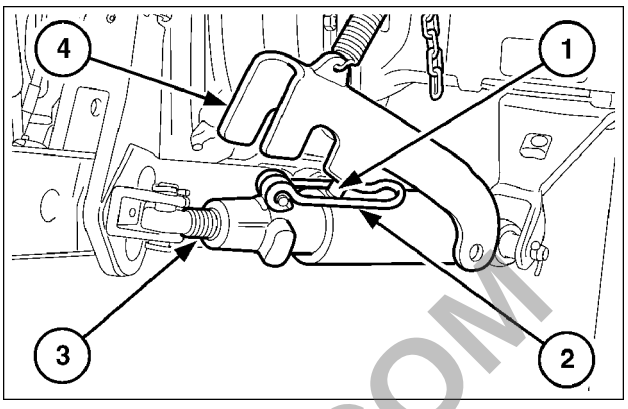
NOTICE: *Do not use the joystick to operate hydraulic motors as damage may occur to the motor or hydraulic system if the joystick is in advertently moved to the neutral position.*

To exit motor mode, depress the timer button **(1)** with the remote valve lever in the retract or float position.

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AUTOMATIC STABILISERS (where fitted)



SS10D211 3

Automatic telescopic stabilisers may be fitted in place of the standard telescopic stabilisers, described previously.

Each stabiliser consists of a telescopic tube assembly internally threaded at the rear end. The tube assembly is attached to a mounting bracket bolted to the outer ends of the rear axle housing.

An externally threaded rod **(3)** is attached to the lower links. The threaded rod engages with the screwed thread in the tube assembly and the overall length of the assembly is determined by screwing the rod in or out, as required.

An adjustable chain **(4)** is attached, at one end to the rear cab support and at the other end, via a spring, to a hinged cover **(1)** on the telescopic part of the stabiliser. A lug **(2)** on the telescopic part of the stabiliser engages a notch in the cover.

When the chain is correctly adjusted it will be slack when the lower links are raised from the operating position, so allowing the cover to drop down over the lug on the stabiliser. When the cover is down, as shown, the stabiliser is locked at the preset length. The lower links are, therefore, retained at a set distance apart, preventing them (and attached equipment) from moving from side to side (swaying).

However, when the 3- point hitch is lowered into the work position, the chain becomes taut and lifts the cover from the stabiliser allowing it to telescope freely. The stabilisers (and implement) will then sway when engaged in the ground. This feature is useful a sit provides greater implement control when turning on the headlands of a field.

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⚠ WARNING

Unexpected machine movement!
If you are supporting any wheel(s) of a four-wheel drive machine on a stand, NEVER attempt to start the engine or rotate a wheel. The wheels could move, causing the machine to fall from the stand. Instead, support all wheels so they are just clear of the ground.
Failure to comply could result in death or serious injury.

W0429A

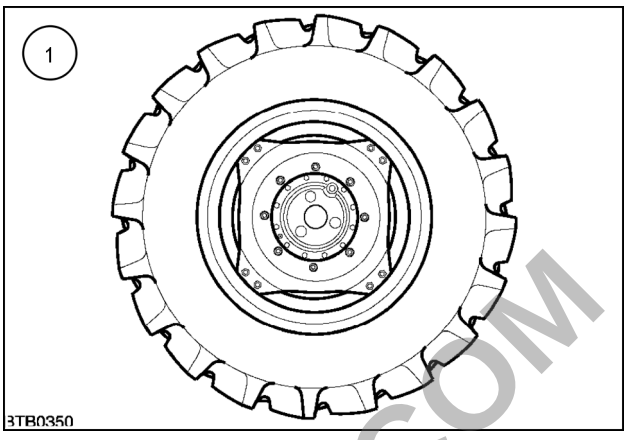
Disc Types

There are three different designs of centre disc dependent upon tire size and tractor model. The centre discs shown are as follows:

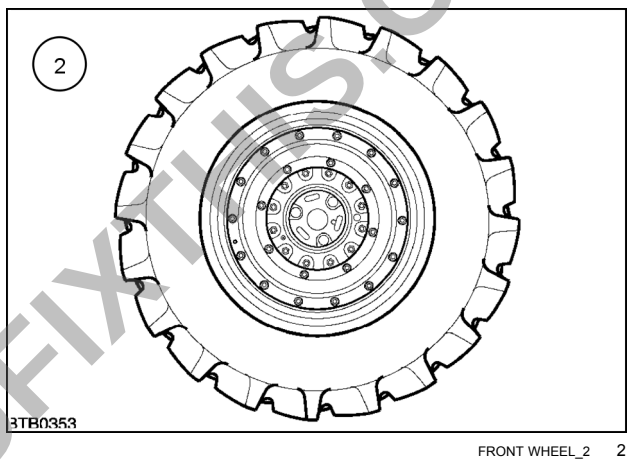
Square centre disc- variable track (Type 1)

Round centre disc- variable track (Type 2)

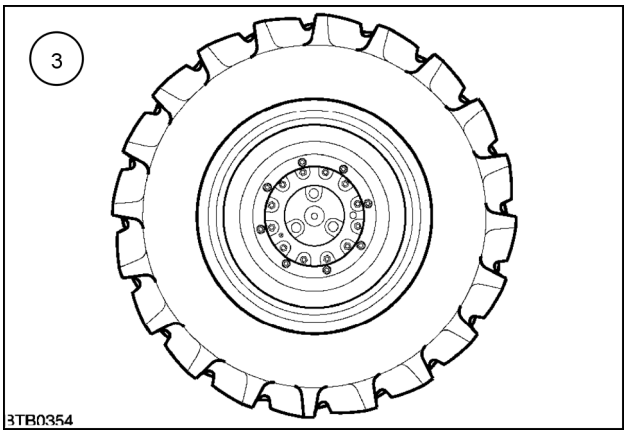
Round centre disc- fixed track (Type 3)



FRONT WHEEL_1 1



FRONT WHEEL_2 2



FRONT WHEEL_3 3

The type of centre disc installed will affect the track setting. Identify the type of centre disc fitted to your tractor wheels, then refer to the following table and figure **4** to see the wheel rim and disc positions necessary to achieve the required track setting.

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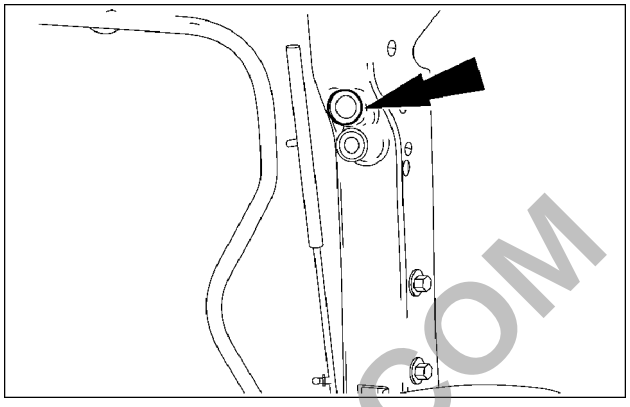
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Auxiliary power sockets

Cigar lighter socket

For mobile telephone or cooler box (where fitted). This socket may also be used with a cigarette lighter, consult your authorized dealer.

Rating: **8 A**

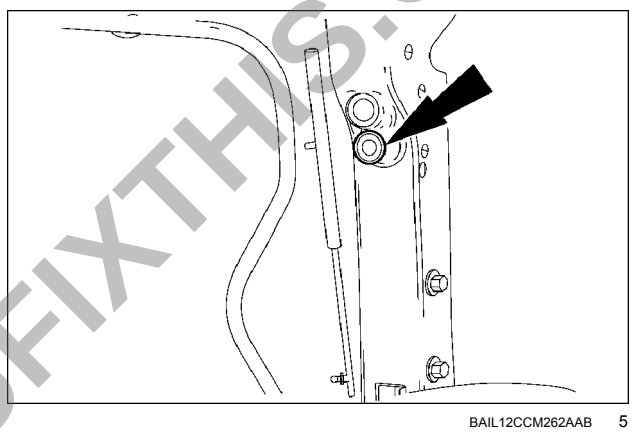


BAIL12CCM261AAB 4

Single pole power socket

Live with ignition key in 'on' position.

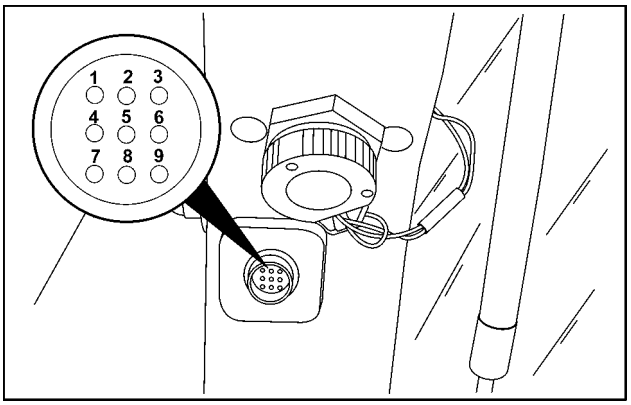
Rating: **8 A**



BAIL12CCM262AAB 5

ISO bus in-cab connector (where fitted)

The ISO bus in-cab connector is used as an interface to connect for example a virtual terminal, an implement control like a joystick or another Electronic Control Unit (ECU) to the ISO bus.



SVIL14TR00097AB 6

Pin No.

1 ISO bus CAN relay
2 CAN_L input
3 CAN_L output
4 CAN_H input
5 CAN_H output
6 Terminating bias circuit (TBC)_ **12 V**
7 Electronic Control Unit (ECU)_ **12 V**
8 Terminating bias circuit (TBC)_GND
9 Electronic Control Unit (ECU)_GND

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FIRST 50 HOURS

Service operations

At the first 50 hour service, ensure that the service operations are carried out by your authorized dealer. The items are listed in the 'First 50- Hour Service' checklist, see on page **11-1**.

- Check engine oil level
- Change the hydraulic charge pump oil filter and the transmission pump oil filter
- Change the hydraulic suction pump oil filter
- Check transmission/rear axle/hydraulics oil level
- Clean front PTO breather (where fitted)
- Check front PTO oil level (where fitted)
- Check 4WD differential oil level
- Check 4WD axle hub oil level
- Check and adjust parking brake
- Check all engine air intake connections
- Check torque of exhaust manifold bolts
- Inspect poly V-belt
- Check and adjust compressor drive belt tension (air condition and air operated trailer brakes, where fitted)
- Tighten all cooling system hose connections
- Check torque of safety cab or frame mounting bolts
- Check torque of front end weight clamp bolts (where fitted)

Both 50 Hour Service sheets should be signed by yourself and your dealer and one copy retained by the dealer for their records (dealer’s copy).

NOTICE: *Items listed in the first 50 hour check are important. If not performed, early component failure and reduced tractor life may result.*

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Change the poly V-belts

⚠ WARNING

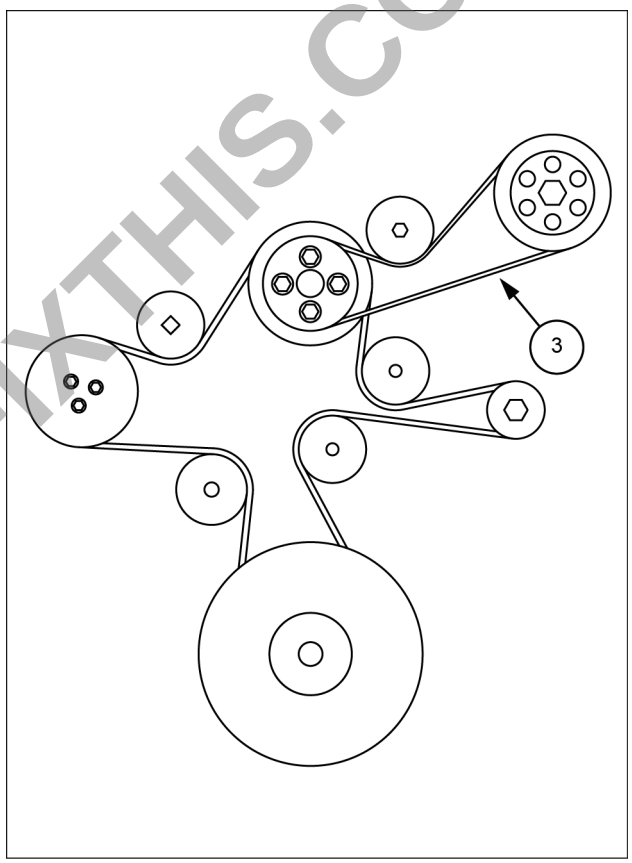
Entanglement hazard!
Always stop the engine and engage the parking brake, unless otherwise instructed in this manual, before checking and/or adjusting any drive belt or chain.
Failure to comply could result in death or serious injury.

W0097A

Loosen the screws and remove the safety guards.

Air Operated Trailer Brake

Loosen the belt tensioner and remove the belt **(3)**. Check the tensioner and pulley, if damaged replace them.



BAIL13TR02082BB 1

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SYMPTOM(S)

Engine

Problem	Possible Cause	Correction
Engine will not start or is difficult to start	Incorrect starting procedure.	Review starting procedure.
	Low or no fuel.	Check fuel level.
	Air in fuel lines.	Bleed fuel system.
	Low ambient temperature.	Use cold starting aid.
	Contaminated fuel system.	Clean and bleed fuel system.
	Clogged fuel filter(s).	Replace fuel filter element(s)
	Malfunctioning fuel pump or injectors.	See your authorised dealer.
	Malfunctioning fuel solenoid or solenoid relay.	See your authorised dealer.
	Incorrect engine oil viscosity.	Use correct viscosity oil.
	Incorrect fuel for operating temperature.	Use correct type fuel for temperature conditions.
	Slow starter speed.	See slow starter speed in Electrical.
Engine runs roughly and/ or stalls	Clogged fuel filter(s)	Replace fuel filter element(s).
	Contaminated fuel system.	Clean and bleed fuel system.
	Fuel solenoid incorrectly adjusted.	See your authorised dealer.
	Fuel cap vent blocked.	Wash cap in clean fuel oil.
Engine lacks power	Engine overloaded.	Shift to lower gear, reduce draft load or ballast carried.
	Air cleaner restricted.	Service air cleaner.
	Low engine operating temperature.	Check thermostats.
	Engine overheats.	See Engine overheats.
	Clogged fuel filter(s).	Replace fuel filter element(s).
	Incorrect fuel.	Use correct type fuel.
	Malfunctioning fuel injectors.	See your authoriszed dealer.
	Malfunctioning fuel injection pump.	See your authorized dealer.
	Leaking air intake boost pipes or exhaust manifold.	Check and rectify or see your authorized dealer.
	Turbocharger malfunctioning.	See your authorized dealer.
	Implement incorrectly adjusted.	See implement Operator's Manual.
Engine knocks	Fuel injection pump timing.	See your authorised dealer.
	Low engine oil level.	Add oil, as required.
	Low engine oil pressure.	See your authorised dealer.
	Low engine operating temperature.	Check thermostats.
	Engine overheats.	See Engine overheats.
Engine overheats.	Low engine oil level.	Add oil, as required.
	Low engine coolant level.	Fill coolant recovery tank. Check cooling system for leaks.
	Defective thermostat(s).	Check thermostat(s).
	Dirty/ blocked radiator core.	Clean.
	Excessive engine overload.	Shift to lower gear, reduce draft load or ballast carried.
	Faulty radiator pressure cap.	Replace cap.
	Cooling system blocked.	Flush cooling system.
	Loose or worn fan belt.	Check tension, adjust or replace belt if worn.
	Leaking hose or connection.	Tighten connection and/ or replace hose.
	Malfunctioning temperature gauge or sender.	See your authorised dealer.
	Malfunctioning vistronic fan.	See your authorised dealer.
Low engine operating temperature	Malfunctioning thermostat(s).	Replace thermostat(s).
	Vistronic fan locked up.	See your authorised dealer.

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